



COUNTY OF UNION

DEPARTMENT OF ENGINEERING, PUBLIC WORKS & FACILITIES MANAGEMENT

Joseph J. Policay, Jr., CPWM, Director

MEMORANDUM

**BOARD OF
COUNTY COMMISSIONERS**

LOURDES M. LEON
Chairwoman

JOSEPH C. BODEK
Vice-Chairman

JAMES E. BAKER, JR.

MICHÈLE S. DELISFORT

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BETTE JANE KOWALSKI

ALEXANDER MIRABELLA

KIMBERLY PALMIERI-MOUEDED

REBECCA WILLIAMS

EDWARD T. OATMAN
County Manager


AMY CRISP WAGNER
Deputy County Manager

BRUCE H. BERGEN, ESQ.
County Counsel

JAMES E. PELLETTIERE
Clerk of the Board

RICARDO S. MATIAS
PE, CME, CFM
County Engineer
Director, Division of Engineering

TO: All Potential Bidders

FROM: Ricardo S. Matias, PE, CME, CFM, 
County Engineer
Director / Division of Engineering

DATE: February 6, 2025

RE: **ADDENDUM NUMBER 1**
Intersections along East and West 7th Street (CR 601)
and the Intersection of East Front Street (CR 620) and
Leland Avenue, City of Plainfield, County of Union
Federal Project No. HISP-D00S(627) CO, BA# 1-2025;
Union County Engineering Project #2018-006

Attached is Addendum Number 1 for the above referenced project.

**Please be sure to complete and submit the standard
"Acknowledgement of Addendum" form included in the original bid
specifications and submit it with the bid.**

DIVISION OF ENGINEERING

2325 South Avenue

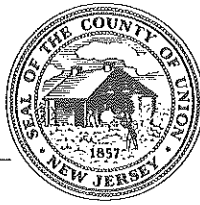
Scotch Plains, NJ 07076

(908) 789-3675

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COUNTY OF UNION

DEPARTMENT OF ENGINEERING, PUBLIC WORKS & FACILITIES MANAGEMENT

Joseph J. Policay, Jr., CPWM, Director

ADDENDUM NUMBER 1

**Intersections along East and West 7th Street (CR 601)
and the Intersection of East Front Street (CR 620) and
Leland Avenue, City of Plainfield, County of Union
Federal Project No. HISP-D00S(627) CO, BA# 1-2025;
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PE, CME, CFM
*County Engineer
Director, Division of Engineering*

This is responses to questions received for the above referenced project.

Question 1: I was reviewing the DBE forms that need to be filled out and notice the use of the old CR-266. Should we use the form attached or use the CR-266 from 2023?

Response 1: Follow the NJDOT website link on the Notice to Bidders page 2 of 345 in special provisions document for the most current CR-266 form and other required NJDOT forms.

Question 2: Item No. 160004M Fuel Price Adjustment – We are requesting that the County of Union sets a Dollar Amount for this bid proposal item by addendum.

Response 2: See attached fuel price adjustment backup calculation and revised documents.

Question 3: Item No 160007M Asphalt Price Adjustment – We are requesting that the County of Union sets a Dollar Amount for this bid proposal item by addendum.

Response 3: See attached asphalt price adjustment backup calculation and revised documents.

Question 4: Item 159141M Traffic Director, Police – We are requesting that the County of Union sets a Dollar Amount for this bid proposal item by addendum.

Response 4: Dollar amount is \$25,000 based on the engineer's estimate and the bid form has been revised.

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Question 5: Is night milling and paving allowed on this project? If night milling and paving is allowed can we mill and pave all four (4) intersections at the same time?

Response 5: The County does not object to working at night, but the approval of that schedule must be approved by the local municipality in accordance with their regulations.

Question 6: Mast Arm Signs – There is no bid item for this work. We request the County of Union adds a line item including a quantity for this work by addendum.

Response 6: Mast arm signs are quantified in a regulatory sign item 612003P in an addendum. See revised bid documents.

Question 7: Regulatory Signs – There is no bid item for this work. We request that the County of Union adds a line item including a quantity for this work by addendum.

Response 7: While the area for the mast arm signs is included in the 614.3 SF total and sign table breakdown on TSP-1, the item is not on the EDOQ or Cost Estimate, therefore, we agree that a line item for regulatory signs 612003P should be added to the contract documents via addendum. See revised bid documents.

Question 8: We downloaded the plans and specs for the above referenced project, on page B-31 the DPMC Form is that a requirement to bid the project? Do we need to attach the DPMC Certification?

Response 8: No, the DPMC form is a standard document in the County specification however this specification does not call out a DPMC requirement to bid the project.

Question 9: Need some clarification on the OCP Limits. I do not see the OCP Policy limit requirements, but a value is needed for the bid pricing. Should we use the DOT standard? Also, is there an SBE requirement?

Response 9: Insurance requirements are detailed in item #10 of the General Specification. There is not a SBE requirement. The DBE requirement is 10 percent.

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Fuel Price Adjustment - English

Green spaces are for YOUR input

Calculation Sheet for Engineer's Estimate

Date

PROJECT :

Intersection Improvements
Along East and West 7th Street (CR
601) and Intersection of East Front
Street (CR 620) and Leland Avenue

08/12/22

FEDERAL PROJECT NO.:

HSIP-D00S(627)

PROJECT CODE :

7

" PROJECT CODES "

CODE	DESCRIPTION
1	New Construction
2	Reconstruction, Widening and Dualization
3	Widening and Resurfacing
4	Resurfacing
5	Bridge Repair
6	Intersection Improvements
7	Safety and Traffic Control
8	Miscellaneous
9	Unique Project

FUEL PRICE ADJUSTMENT - Item # 160004M

Item #	ELIGIBLE ITEMS	THICKNESS	USAGE FACTOR	ADD QTY.	AMOUNT IF > THAN OR = TO 500
202009P	EXCAVATION, UNCLASSIFIED		0.50	G / CY x 97.63	48.81
202015P	EXCAVATION, REGULATED MATERIAL		0.50	G / CY x 0.00	0.00
202018P	EXCAVATION, ACID PRODUCING SOIL		0.50	G / CY x 0.00	0.00
202021P	REMOVAL OF PAVEMENT		0.25	G / SY x 785.00	196.25
401009P	HMA MILLING, 3" OR LESS		0.25	G / SY x 6,914.00	1,728.50
401012P	HMA MILLING, MORE THAN 3" TO 6"		0.25	G / SY x 0.00	
#N/A	CONCRETE MILLING,		0.25	G / SY x 0.00	
401018P	HMA PROFILE MILLING		0.25	G / SY x 0.00	
203003P	BREAKING PAVEMENT		0.25	G / SY x 0.00	
305003P	RUBBLIZATION		0.25	G / SY x 0.00	
301006P	SUBBASE		1.00	G / CY x 0.00	
203021	1. SOIL AGGREGATE		1.00	G / CY x 0.00	
	SOIL AGGREGATE BASE COURSE, ___ " THICK		1.00	G / CY x 0.00	
302030P	SOIL AGGREGATE BASE COURSE, VARIABLE THICKNESS		1.00	G / CY x 0.00	
302036p	DENSE-GRADED AGGREGATE BASE COURSE, ___ " THICK	6.0	1.00	G / CY x 785.00	130.83
302051P	DENSE-GRADED AGGREGATE BASE COURSE, VARIABLE THICKNESS		1.00	G / CY x 0.00	
#N/A	CONCRETE BASE COURSE, ___ " THICK		0.25	G / SY x 0.00	
#N/A	CONCRETE BASE COURSE, REINFORCED ___ " THICK		0.25	G / SY x 0.00	
#N/A	ASPHALT STABILIZED DRAINAGE COURSE		2.50	G / TON x 0.00	
#N/A	OPEN-GRADED ___ FRICTION COURSE		2.50	G / TON x 0.00	
#N/A	MODIFIED OPEN-GRADED ___ FRICTION COURSE		2.50	G / TON x 0.00	
403003M	ULTRA-THIN FRICTION COURSE		2.50	G / TON x 0.00	
401061m	HOT MIX ASPHALT ___ SURFACE COURSE		2.50	G / TON x 1,157.00	2,892.50
401084m	HOT MIX ASPHALT ___ INTERMEDIATE COURSE		2.50	G / TON x 96.00	240.00
401099m	HOT MIX ASPHALT ___ BASE COURSE		2.50	G / TON x 358.00	895.00
#N/A	STONE MATRIX ASPHALT ___ SURFACE COURSE		2.50	G / TON x 0.00	
405015p	CONCRETE SURFACE COURSE, ___ " THICK		0.25	G / SY x 0.00	
405027P	DIAMOND GRINDING OF CONCRETE SURFACE COURSE		0.25	G / SY x 0.00	
454003M	DIAMOND GRINDING EXISTING CONCRETE PAVEMENT		0.25	G / SY x 0.00	
507051P	CONCRETE BRIDGE APPROACH		0.50	G / CY x 0.00	
602003P	CONCRETE CULVERT		1.00	G / CY x 0.00	
504015P	CONCRETE FOOTING		1.00	G / CY x 0.00	
504018P	CONCRETE WING WALL		1.00	G / CY x 0.00	
504021P	CONCRETE PIER COLUMN Protection, HPC		1.00	G / CY x 0.00	
504027P	CONCRETE PIER COLUMN AND CAP		1.00	G / CY x 0.00	
504024P	CONCRETE ABUTMENT WALL		1.00	G / CY x 0.00	
504030P	CONCRETE PIER SHAFT		1.00	G / CY x 0.00	
504033P	CONCRETE PEDESTRIAN BRIDGE		1.00	G / CY x 0.00	
507021P	CONCRETE Bridge DECK		1.00	G / CY x 0.00	
507024P	CONCRETE Bridge DECK, HPC		1.00	G / CY x 0.00	
507030P	CONCRETE BRIDGE SIDEWALK		1.00	G / CY x 0.00	
#N/A	CONCRETE BRIDGE SIDEWALK HPC		1.00	G / CY x 0.00	
507036P	CONCRETE Bridge PARAPET		1.00	G / CY x 0.00	
#N/A	CONCRETE Bridge PARAPET HPC		1.00	G / CY x 0.00	
#N/A	CAST-IN-PLACE CONCRETE PILES, DRIVEN ___ " DIAMETER		1.00	G / CY x 0.00	
#N/A	RETAINING WALL, LOCATION NO. ___		0.10	G / SF x 0.00	
#N/A	NON-VEGETATIVE SURFACE, HOT MIX ASPHALT		2.50	G / TON x 0.00	
#N/A	COLOR-COATED NON-VEGETATIVE SURFACE, HOT MIX ASPHALT		2.50	G / TON x 0.00	
#N/A	*				
#N/A	*				
				TOTAL	6,131.90
NO. OF GALLONS FOR FUEL PRICE ADJUSTMENT				6,131.90	
CURRENT PRICE PER "GALLON" LATEST MONTH				\$4.61	
PERIOD OF CONSTRUCTION MONTHS:				24.00	2.00
INFLATION RATE					5.00%
ROUND UP TO NEAREST \$100				\$2,826.80	\$2,900.00

* Add all NS items that are eligible for the fuel adjustment. Use the Usage Factor of a Compatible Item. The Designer must revise section 160.03.01 of the Specs.

" PROJECT CODES "**Calculation Sheet for Engineer's Estimate**

Green spaces are for YOUR input

PROJECT :

Intersection Improvements Along East and West 7th Street (CR 601) and Intersection of East Front Street (CR 620) and Leland Avenue

Date

08/12/22

FEDERAL PROJECT NO. :

HSIP-D00S(627)

PROJECT CODE :

7

CODE	DESCRIPTION
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ASPHALT PRICE ADJUSTMENT - Item # 160007M

IF COMBINED WEIGHT OF BITUMINOUS MATERIALS IS OVER 1,000 TONS THEN CALCULATE THE FOLLOWING ACCORDINGLY

ELIGIBLE ITEMS	UNIT	USAGE FACTOR	QTY in the Items's Unit	QTY converted to Tons	
HMA PATCH	T	5.00%		0	0.00
HOT MIX ASPHALT PAVEMENT REPAIR	SY	1.50%		0	0.00
HOT MIX ASPHALT SURFACE COURSE	T	5.00%	1,157.00	1157	57.85
HOT MIX ASPHALT INTERMEDIATE COURSE	T	5.00%		0	0.00
HOT MIX ASPHALT BASE COURSE	T	4.50%	358.00	358	16.11
OPEN-GRADED FRICTION COURSE	T	5.00%		0	0.00
MODIFIED OPEN-GRADED FRICTION COURSE	T	6.00%		0	0.00
ASPHALT-RUBBER OPEN GRADED FRICTION COURSE	T	8.00%		0	0.00
ULTRA-THIN FRICTION COURSE	T	6.00%		0	0.00
STONE MATRIX ASPHALT SURFACE COURSE	T	6.50%	0.00	0	0.00
HIGH PERFORMANCE THIN OVERLAY	T	6.00%		0	0.00
FULL DEPTH CONCRETE PAVEMENT REPAIR, HMA	SY	1.65%		0	0.00
HOT MIX ASPHALT SIDEWALK, ___ THICK	SY	0.56%		0	0.00
HOT MIX ASPHALT DRIVEWAY, ___ THICK	SY	0.56%		0	0.00
HOT MIX ASPHALT ISLAND, ___ THICK	SY	0.56%		0	0.00
NON-VEGETATIVE SURFACE, HOT MIX ASPHALT	SY	0.84%	0.00	0	0.00
NON-VEGETATIVE SURFACE, POROUS HOT MIX ASPHALT	SY	0.84%		0	0.00
COLOR-COATED NON-VEGETATIVE SURFACE, HOT MIX ASPHALT	SY	0.84%		0	0.00
				1515	73.96
NUMBER OF TONS FOR ASPHALT PRICE ADJUSTMENT			73.96		
CURRENT PRICE PER "TON" FOR LATEST MONTH			\$767.00		
PERIOD OF CONSTRUCTION MONTHS:			21.00	1.75	
INFLATION RATE				5%	
ROUND UP TO NEAREST \$100			4963.6405		\$5,000.00

SEQUENCE NO.	ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY	COUNTY QUANTITY	DISTRIBUTION: PLAN SHEET QUANTITY																				STATE	FEDERAL PROJECT NO.
									NJ	HSIP-D00S(627)																				
1	151006M	PERFORMANCE BOND AND PAYMENT BOND	DOLL	DOLL																										
2	152004P	OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE	DOLL	DOLL																										
3	152015P	POLLUTION LIABILITY INSURANCE	DOLL	DOLL																										
4	153003P	PROGRESS SCHEDULE	LS	LUMP SUM																										
5	153005M	PROGRESS SCHEDULE UPDATE	U	5		5																								
6	154003P	MOBILIZATION	LS	LUMP SUM																										
7	157004M	CONSTRUCTION LAYOUT	DOLL	DOLL																										
8	158012M	HEAVY DUTY SILT FENCE, BLACK	LF	478	478				SE-3	110	SE-4	264				SE-6	104													
9	158030M	INLET FILTER TYPE 2, 2' X 4'	U	22	22				SE-3	7	SE-4	4	SE-5	4		SE-6	5	SE-7	2											
10	158063P	CONCRETE WASHOUT SYSTEM	LS	LUMP SUM																										
11	158069M	OIL-WATER SEPARATOR	U	1		1																								
12	158072M	OIL ONLY EMERGENCY SPILL KIT, TYPE 1	U	1		1																								
13	158084M	EROSION CONTROL SEDIMENT REMOVAL	CY	20		20																								
14	159003M	BREAKAWAY BARRICADE	U	104		104																								
15	159006M	DRUM	U	124		124																								
16	159009M	TRAFFIC CONE	U	124		124																								
17	159012M	CONSTRUCTION SIGNS	SF	600		600																								
18	159027M	FLASHING ARROW BOARD, 4' X 8'	U	2		2																								
19	159030M	PORTABLE VARIABLE MESSAGE SIGN	U	2		2																								
20	159108M	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	U	2		2																								
21	159126M	TEMPORARY TRAFFIC STRIPES, 4"	LF	1000		1000																								
22	159138M	HMA PATCH	T	20		20																								
23	160004M	FUEL PRICE ADJUSTMENT	DOLL	DOLL																										
24	160007M	ASPHALT PRICE ADJUSTMENT	DOLL	DOLL																										
25	161003P	FINAL CLEANUP	LS	LUMP SUM																										
26	201003P	CLEARING SITE	LS	LUMP SUM																										
27	202006M	EXCAVATION, TEST PIT	CY	10		10																								
28	202009P	EXCAVATION, UNCLASSIFIED	CY	98	98				C-2	21	C-3	18	C-4	22		C-5	17	C-6	20											
29	202021P	REMOVAL OF PAVEMENT	SY	785	785				C-2	169	C-3	142	C-4	174		C-5	136	C-6	164											
30	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	SY	785	785				C-2	169	C-3	142	C-4	174		C-5	136	C-6	164											
31	401009P	HMA MILLING, 3" OR LESS	SY	6914	6914				C-2	839	C-3	2239	C-4	2120		C-5	869	C-6	847											
32	401027M	POLYMERIZED JOINT ADHESIVE	LF	5850		5850																								
33	401030M	TACK COAT	GAL	310		310																								
34	401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	T	1157	1157				C-2	362	C-3	142	C-4	346		C-5	153	C-6	154											
35	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	T	96	96				C-2	21	C-3	17	C-4	21		C-5	17	C-6	20											
36	401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	T	358	358				C-2	77	C-3	64	C-4	80		C-5	62	C-6	75											
37	602051M	INLET, TYPE B-2 MODIFIED	U	1	1				C-4	1																				
38	602105M	SET INLET TYPE B, CASTING	U	21	21				C-2	7	C-3	4	C-4	3		C-5	5	C-6	2											
39	606012P	CONCRETE SIDEWALK, 4" THICK	SY	915	915				C-2	152	C-3	212	C-4	161		C-5	203	C-6	179	E-1	2		E-3	2		E-5	2	E-7		
40	606084P	DETECTABLE WARNING SURFACE	SY	40	40				C-2	8	C-3	8	C-4	8		C-5	8	C-6	8											
41	607021P	9" X 18" CONCRETE VERTICAL CURB	LF	1348	1348				C-2	287	C-3	263	C-4	282		C-5	246	C-6	270											
42	610003M	TRAFFIC STRIPES, 4"	LF	4700		4700																								
43	610008M	TRAFFIC MARKINGS, SYMBOLS	SF	250		250																								
44	610014M	TRAFFIC MARKING LINES, 8"	LF	2490		2490																								
45	610016M	TRAFFIC MARKING LINES, 12"	LF	2430		2430																								
46	610017M	TRAFFIC MARKING LINES, 24"	LF	620		620																								
47	610036M	REMOVAL OF TRAFFIC STRIPES	LF	1610		1610																								
48	612003P	REGULATORY AND WARNING SIGN	SF	615	615																									
49	612021M	RELOCATE SIGN	U	4	4				TSP-4	1	TSP-5	1	TSP-6	2																
50	651255M	RESET WATER VALVE BOX	U	19																										

BID FORM

I/We have carefully examined the plans, specifications, and advertisement for bid for the

**Intersections along East and West 7th Street (CR 601) and the Intersection of East Front Street (CR 620) and
Leland Avenue, City of Plainfield, County of Union,
Federal Project No. HISP-D00S(627) CON
BA# 1-2025; Union County Engineering Project #2018-006**

that is on file in the Union County Division of Engineering. I/We have inspected the site of the work and will contract to do all the work and furnish all materials mentioned in said plans and specifications. Work will be accomplished in the manner prescribed therein.

BASE BID ITEMS:

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
151006M	PERFORMANCE BOND AND PAYMENT BOND	DOLL	DOLL		
152004P	OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE	DOLL	DOLL		
152015P	POLLUTION LIABILITY INSURANCE	DOLL	DOLL		
153003P	PROGRESS SCHEDULE	LS	LUMP SUM		
153005M	PROGRESS SCHEDULE UPDATE	U	5		
154003P	MOBILIZATION	LS	LUMP SUM		
157004M	CONSTRUCTION LAYOUT	DOLL	DOLL		
158012M	HEAVY DUTY SILT FENCE, BLACK	LF	478		
158030M	INLET FILTER TYPE 2, 2' X 4'	U	22		
158063P	CONCRETE WASHOUT SYSTEM	LS	LUMP SUM		
158069M	OIL-WATER SEPARATOR	U	1		
158072M	OIL ONLY EMERGENCY SPILL KIT, TYPE 1	U	1		
158084M	EROSION CONTROL SEDIMENT REMOVAL	CY	20		
159003M	BREAKAWAY BARRICADE	U	104		
159006M	DRUM	U	124		
159009M	TRAFFIC CONE	U	124		
159012M	CONSTRUCTION SIGNS	SF	600		
159027M	FLASHING ARROW BOARD, 4' X 8'	U	2		
159030M	PORTABLE VARIABLE MESSAGE SIGN	U	2		
159108M	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	U	2		
159126M	TEMPORARY TRAFFIC STRIPES, 4"	LF	1000		
159138M	HMA PATCH	T	20		
160004M	FUEL PRICE ADJUSTMENT	DOLL	DOLL	\$2,900	\$2,900
160007M	ASPHALT PRICE ADJUSTMENT	DOLL	DOLL	\$5,000	\$5,000
161003P	FINAL CLEANUP	LS	LUMP SUM		
201003P	CLEARING SITE	LS	LUMP SUM		
202006M	EXCAVATION, TEST PIT	CY	10		
202009P	EXCAVATION, UNCLASSIFIED	CY	98		

202021P	REMOVAL OF PAVEMENT	SY	785		
302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	SY	785		
401009P	HMA MILLING, 3" OR LESS	SY	6914		
401027M	POLYMERIZED JOINT ADHESIVE	LF	5850		
401030M	TACK COAT	GAL	310		
401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	T	1157		
401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	T	96		
401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	T	358		
602051M	INLET, TYPE B-2 MODIFIED	U	1		
602105M	SET INLET TYPE B, CASTING	U	21		
606012P	CONCRETE SIDEWALK, 4" THICK	SY	915		
606084P	DETECTABLE WARNING SURFACE	SY	40		
607021P	9" X 18" CONCRETE VERTICAL CURB	LF	1348		
610003M	TRAFFIC STRIPES, 4"	LF	4700		
610008M	TRAFFIC MARKINGS, SYMBOLS	SF	250		
610014M	TRAFFIC MARKING LINES, 8"	LF	2490		
610016M	TRAFFIC MARKING LINES, 12"	LF	2430		
610017M	TRAFFIC MARKING LINES, 24"	LF	620		
610036M	REMOVAL OF TRAFFIC STRIPES	LF	1610		
612003P	REGULATORY AND WARNING SIGN	SF	615		
612021M	RELOCATE SIGN	U	4		
651255M	RESET WATER VALVE BOX	U	19		
652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	U	17		
653084M	RESET GAS VALVE BOX	U	3		
654029M	RESET ELECTRIC MANHOLE	U	2		
701033P	4" RIGID NONMETALLIC CONDUIT	LF	3268		
701099M	17" X 30" JUNCTION BOX	U	36		
701102M	18" X 36" JUNCTION BOX	U	10		
701117M	JUNCTION BOX FOUNDATION	U	3		
701123M	FOUNDATION, TYPE SFT	U	20		
701132M	FOUNDATION, TYPE P-MC	U	5		
701135M	FOUNDATION, TYPE SPF	U	22		
701171M	METER CABINET, TYPE TL	U	5		
701192P	GROUND WIRE, NO. 8 AWG	LF	1630		
701210P	SERVICE WIRE, NO. 2 AWG	LF	1100		
701213P	SERVICE WIRE, NO. 6 AWG	LF	1950		
702018M	PEDESTRIAN SIGNAL STANDARD	U	22		
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	LF	5202		
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	LF	5659		
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	LF	5931		
702036M	TRAFFIC SIGNAL HEAD	U	62		
702038M	PUSH BUTTON INSTALLATION	U	15		

Bidders name: _____

702039M	PEDESTRIAN SIGNAL HEAD	U	40		
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	U	40		
702045M	IMAGE DETECTOR	U	20		
702059M	GPS UNIT	U	5		
702062M	APS CONTROL UNIT	U	5		
702101M	UNINTERRUPTIBLE POWER SUPPLY	U	5		
703003M	LIGHTING STANDARD ALUMINUM	U	3		
703012M	LIGHTING MAST ARM ALUMINUM	U	3		
703018M	LUMINAIRE	U	3		
704084M	CONTROLLER, CTSS	U	5		
704090M	CONTROLLER, CTSS TURN ON	U	5		
804000P	TOPSOIL SPREADING 4" THICK	SY	1140		
804015P	BORROW TOPSOIL	CY	438		
806003P	FERTILIZING AND SEEDING, TYPE A	SY	1140		
809003M	STRAW MULCHING	SY	1140		
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	U	12		
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	U	4		
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	U	4		
159141M	TRAFFIC DIRECTOR, POLICE	ALLOW ANCE	DOLL	\$25,000	\$25,000

TOTAL BASE BID AMOUNT:

Written _____

Figures _____

BID CONTINGENCY: (To be used if and when directed by the County)

Written _____

Figures _____

TOTAL BASE BID ITEMS PLUS BID CONTINGENCY AMOUNT:

Written _____

Figures _____

NOTE: Bid Contingency may include one-half of one percent of contract amount set aside for local training if and when directed by the County.

SPECIFICATIONS

FOR

**Intersections along East and West 7th Street (CR 601) and
the Intersection of East Front Street (CR 620) and Leland
Avenue, City of Plainfield, County of Union
Federal Project No. HISP-D00S(627) CO, BA# 1-2025;
UNION COUNTY ENGINEERING PROJECT #2018-006**

January 2025

UNION COUNTY BOARD OF COUNTY COMMISSIONERS

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Michele S. Delisfort, Commissioner
Sergio Granados, Commissioner
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COUNTY MANAGER
Edward T. Oatman

**DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND
FACILITIES MANAGEMENT**
Joseph J. Policay, Jr., CPWM
Director, Department of Engineering, Public Works and
Facilities Management

**COUNTY ENGINEER
DIVISION OF ENGINEERING**
Ricardo Matias, PE, CME, CFM

Prepared by:
Michael Baker International, Inc.
Brad Miller, PE, PP, PTOE

**COUNTY OF UNION
NOTICE TO BIDDERS**

Sealed bids will be received by the assistant director of the Division of Purchasing, or her designee, at the County of Union, New Jersey on February 19, 2025 at 10:30 a.m., prevailing time, in the 3rd Floor Conference Room, U.C. Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey for:

**Intersections along East and West 7th Street (CR 601) and the Intersection of East Front Street (CR 620) and Leland Avenue, City of Plainfield, County of Union,
Federal Project No. HISP-D00S(627) CON
BA# 1-2025; UNION COUNTY ENGINEERING PROJECT #2018-006**

Bid Packages may be obtained at no charge by registering and downloading at <http://ucnj.org/bid-specs>. Bid Packages may also be obtained in person from the Division of Engineering at 2325 South Avenue, Scotch Plains, New Jersey 07076 between 8:30 a.m. and 4:00 p.m. weekdays upon payment of a non-refundable money order or bank check in the amount of \$275.00 made payable to the County of Union. No Personal / Company checks will be accepted. Requests for mailing of specifications will not be honored. For further information please call 908-789-3675.

The County reserves the right to reject any and all bids and to waive any and all informalities in the bid in accordance with the New Jersey Local Public Contracts Law.

Bids shall be submitted in a sealed envelope and clearly marked with the subject of the bid, name and address of the bidder, phone & fax number, and date of the bid opening. Each bid must be delivered to reach the Division of Purchasing prior to the stated time of the opening of the bids. The County will not be responsible for late delivery by the U.S. Mail or any other carrier. If hand delivered, please note that parking and security access at the County Complex may cause delays and bidders should take them into consideration in order to submit a timely bid. **No** late bids will be accepted.

THE COUNTY OF UNION MAY NOT AWARD THE CONTRACT PRIOR TO THE DEPARTMENTS APPROVAL AS PER SECTION 102.15 "DISQUALIFICATION OF BIDDERS" IN THE PROJECT SPECIFICATION, PLEASE BE REMINDED OF THE FOLLOWING:

Failure to submit CR-266 completed and signed with CR-273, applicable CR-272 and CR-274 signed and completed at the time of bid or 5 days after bid opening will be considered as non-responsive bid, and bid will be rejected. No corrections or editing will be allowed after the forms are submitted.

If the submitted CR-266 form does not meet the contract DBE goal, the bidder must submit at the time of bid or within 5 days after bid opening documentation of "good faith effort", Submittal of such Information does not imply NJDOT Division of Civil Rights & Affirmative Action (OCR/AA) approval. The Departments DCR/AA has sole authority to determine whether the contractor is meeting the contract DBE goal or made adequate good faith efforts to do so.

Forms can be downloaded from:

https://linkprotect.cudasvc.com/url?a=https%3a%2f%2fwww.state.nj.us%2ftransportation%2fbusiness%2fcivilrights%2fforms.shtm&c=E.L.ezaCm128egmyNJ311OqvXV2pHDnne-wAlkZ6NXC2xvyRbFij_0c-TmpL-x2KK6yvkUE651_p1J1oxruQ-rAs-F6E6po3EXOWdgLZcZlnJZCX9S6azIM.&typo=1

DBE/SBE/ESBE Utilization/Participation Plan and ALL Commitment Forms Must Be Submitted by all Bidders within Five (5) days after bid opening.

- Be sure to include ALL required forms and documentation as follows:
- CR-266 "Schedule of DBE/ESBE/SBE Participation"
- CR-273 "Confirmation of DBE/ESBE/SBE Firm"
- CR-272 "DBE/ESBE/SBE Regular Dealer/Supplier Verification" – if applicable
- CR-274 "DBE/ESBE/SBE Trucking Verification" – if applicable

The Disadvantaged Business Enterprise goal is 10%. These requirements are indicated on Federal Attachment #1. The number to Trainee Positions will be 5 where feasible consisting of at least 0 Apprentices and 5 Trainees (Total Trainee House = 2,850). These requirements should be indicated in the proper locations on Federal Attachment #2.

"Proposals are being solicited through a fair and open process in accordance with N.J.S.A. 19:44A-20.3 et seq., and as such, contractors are exempt from the limitations on making political contributions under that law. Further, for that reason, as well as because of language in New Jersey's Annual Appropriations Act, refusal to disclose campaign contributions otherwise required by N.J.S.A. 19:44A-20.3 et seq. and N.J.S.A 19:44A-20.25 et seq., will not adversely affect your consideration for award."

Bidders are required to comply with the requirements of N.J.S.A. 10:5-31 et seq. and N.J.A.C. 17:27.

MICHELLE HAGOPIAN, ASSISTANT DIRECTOR OF PURCHASING

Union County Board of County Commissioners
We're Connected to You!

**Intersections along East and West 7th Street (CR 601) and the Intersection of East Front Street (CR 620)
and Leland Avenue, City of Plainfield, County of Union
Federal Project No. HISP-D00S(627) CO, BA# 1-2025;
UNION COUNTY ENGINEERING PROJECT #2018-006
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Affirmative Action Requirement
Experience Statement
Certificate of Bidder Showing Ability to Perform Contract
Non-Collusion Affidavit
Contractor Registration Advisement
Americans with Disabilities Act
Statement of Bidder's Qualifications
Contractor Performance Record
Affidavit Regarding List of Disbarred, Suspended or Disqualified Bidders
Prior Negative Experience Questionnaire-Certification
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PROJECT TECHNICAL SPECIFICATIONS

DBE/ESBE/SBE FORMS

**UNION COUNTY BOARD OF COUNTY COMMISSIONERS
INSTRUCTIONS TO BIDDERS AND FORMS**

DEFINITIONS

Wherever reference is made to the County, Title of Project, Bidder, or Vendor/Contractor they shall be as follows:

OWNER/COUNTY:

Union County Board of County Commissioners
UC Administration Building, 6th Floor
10 Elizabethtown Plaza
Elizabeth, New Jersey 07207

ADDRESS INQUIRIES TO:

Union County Division of Purchasing
UC Administration Building, 3rd Floor
10 Elizabethtown Plaza
Elizabeth, NJ 07207
Attn: Michelle Hagopian, Assistant Director, Division of Purchasing
Telephone: 908-527-4130
Facsimile: 908-558-2548
ucbids@ucnj.org

ADDRESS BIDS AND SUBMIT TO:

Union County Division of Purchasing
UC Administration Building, 3rd Floor
10 Elizabethtown Plaza
Elizabeth, NJ 07207
Attn: Michelle Hagopian, Assistant Director, Division of Purchasing
Telephone: 908-527-4130
Facsimile: 908-558-2548
ucbids@ucnj.org

TITLE OF PROJECT: Intersections along East and West 7th Street (CR 601) and the Intersection of East Front Street (CR 620) and Leland Avenue, City of Plainfield, County of Union Federal Project No. HISP-D00S(627) CO, BA# 1-2025;
UNION COUNTY ENGINEERING PROJECT #2018-006

BIDDER: Bidder shall be a single overall contract bidder

ENGINEER: Michael Baker International, Inc.

COUNTY ENGINEER AND/OR CONSTRUCTION MANAGER (as applicable):

COUNTY ENGINEER:

Ricardo S. Matias, PE, CME, CFM

CONSTRUCTION MANAGER:

GENERAL SPECIFICATIONS

1. BID FORM

Bids for this Work will be enclosed in a sealed envelope addressed to the Purchasing Division, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207, with the full name of the Project clearly marked on the outside. Refer to the sheet marked "Notice of Bid (Advertisement)" for the correct name of the Project. Bidders must submit their bids on the attached pricing sheet (Bid Form), in a sealed envelope addressed to the County and bearing on the outside: the name of the Bidder, Bidder's business address, and the title of the Project.

The Division of Purchasing will receive the bids for this Work at the Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey on the date and time noted on the sheet marked "**Notice of Bid (Advertisement)**".

The County will not assume responsibility for bids forwarded by mail. It is the individual's responsibility to see that the bids are presented to the Purchasing Division at the time and at the place designated.

Bids will be accepted only on the Bid Form supplied. Bids on forms other than the original supplied herein will be rejected. The "complete" Bid Documents includes the Bid Bond, Bid Form, Bidder's Checklist, Consent of Surety, Ownership Disclosure Certification, Non-Collusion Affidavit, and any other documents noted in these Instructions to Bidders or Contract Document to be submitted with this Bid.

The bidder will state in the bidding sheet the price per unit of measure for each scheduled Item of Work for which he will agree to carry out the Work, and the Total Bid Price for the construction of the Project.

The prices in the Bid Form shall be typed or written in pen and ink. Erasures or alterations must be initialed by the bidder in ink.

The bidding sheet for this Project may include a fixed amount as a Bid Allowance. If applicable, all bidders are required to add this fixed amount to their base bid and to include this additional amount in their Bid Bond. This sum will be included in the Contract as well as the performance, labor and materials bond. Payment by the County will be made to the Contractor from these funds only upon the completion of extra Work pursuant

to a written Change Order(s) signed by the County's Engineer or his designee and the Contractor, prior to the commencement of such Work. Work commenced prior to written approval by the County shall be done at Contractor's risk. Such payment will only be in the amount agreed to by the parties, in writing in the Change Order(s). See Section 37, Change Orders, of these general specifications for further details.

Refer to Bid Document Submission Checklist for all required documents.

In the event there is a discrepancy between the unit price given and the extended total, the unit price will govern. Any discrepancies will be mathematically adjusted.

Insert applicable alternates, if any have been specified, applicable to the Bidder's Work. All alternates MUST be bid upon. Any Bidder's failure to do so will be deemed a material, non-waivable defect and shall render the bid nonresponsive. The Bidder shall clearly designate whether the change in price is an addition or subtraction, by using either a "+" sign or the word "addition", or in the alternative, a "-" sign or the word "minus". If there is no other change in price, the Bidder shall insert "NC" or "No Charge".

When two or more low bids are equal in all respects, awards will be made according to the provisions of N.J.S.A. 40A:11-6.1(d).

Where unit prices have already been established by the Contract Documents, the Bidder agrees that such unit prices shall prevail. All unit prices, whether filled in by the Bidder or established by the Contract Documents, shall become part of the Contract. No bid will be considered or award made, unless applicable unit prices, as required, are filled in.

The County reserves the right to reject any or all bids and also reserves the right to waive any minor informalities or non-material exceptions in the bids.

The County of Union has the right to reject any and all bids from any bidder that is in, or contemplates bankruptcy of any chapter of nature. Said bidder shall notify the County, in writing, of any condition or knowledge of the same.

Conditional bids will not be accepted. Bids may be withdrawn prior to the advertised time for the opening of bids or authorized postponement thereof or in accordance with the provisions of N.J.S.A. 40A:11-23.3 discussed below. Bids received after the advertised time shall not be considered. Bidders shall be solely responsible for premature opening or late delivery of bids not properly marked, addressed, or directed.

2. WITHDRAWAL OF BID DUE TO MISTAKE

N.J.S.A. 40A:11-23.3 authorizes a bidder to request withdrawal of a public works bid due to a mistake on the part of the bidder. A mistake is defined by N.J.S.A. 40A:11-2(42) as a clerical error that is an **unintentional and substantial computational error or an unintentional omission of a substantial quantity of labor, material, or both, from the final bid computation.**

A bidder claiming a mistake under N.J.S.A. 40A:11-23.3 must submit a request for withdrawal, **in writing**, by certified or registered mail to Michele Hagopian, Assistant Director, Division of Purchasing, County of Union, New Jersey, Union County Administration Building, 10 Elizabethtown Plaza, Elizabeth, New Jersey 07207. The bidder must request withdrawal of a bid due to a mistake, as defined by the law, within five business days after the receipt and opening of the bids. Since the bid withdrawal request shall be effective as of the postmark of the certified or registered mailing, Michele Hagopian, Assistant Director of the Division of Purchasing or his designee may contact all bidders, after bids are opened, to ascertain if any bidders wish to, or already have exercised a request to withdraw their bid pursuant to N.J.S.A. 40A:11-23.3.

A bidder's request to withdraw the bid **shall** contain evidence, including any pertinent documents, demonstrating that a mistake was made. Such documents and relevant written information shall be reviewed and evaluated by the County's designated staff pursuant to the statutory criteria of N.J.S.A. 40A:11-23.3.

The County will not consider any written request for a bid withdrawal for a mistake, as defined by N.J.S.A. 40A:11-2(42), by a bidder in the preparation of a bid proposal unless the postmark of the certified or registered mailing is within the five business days following the opening of bids.

3. QUALIFICATIONS OF BIDDERS AND REQUIRED SUBMISSIONS

The County may make such investigation as it deems necessary to determine the ability of the Bidders to perform the Work, which includes investigation of any and all subcontractors listed with the bid. The Bidder shall furnish any information and data for this purpose as the County may request.

4. INTERPRETATIONS AND ADDENDA

Any explanation desired by a bidder regarding the meaning or interpretation of the Contract Documents must be requested in writing to the Assistant Director, Division of Purchasing at ucbids@ucnj.org with reasonable time allowed for a reply to reach bidders before submission of their bids. Any interpretation or instruction made by the

County Engineer will be in the form of an addendum to the Contract Documents or clarification and will be furnished to all prospective bidders. Oral explanations or instructions given before the award of the Contract will not be binding. Bidders are required to bring to the attention of the Assistant Director, Division of Purchasing at ucbids@ucnj.org, the discovery of any apparent ambiguity, inconsistency, error, discrepancy, omission in the Contract Documents for interpretation and correction at least ten (10) working days before opening of bids with the exception of Saturdays, Sundays and holidays.

All Addenda issued through the Office of the Division of Purchasing are amendments to the Contract Documents and shall be considered in preparing bids. Same shall become part of the Contract Documents.

Addenda take precedence over all earlier documents and over each other according to the latest date. Addenda unless themselves interpretive remain subject to interpretation the same as any other document incorporated in the Contract.

Addenda may be issued by the Assistant Director, Division of Purchasing up to seven (7) working days prior to the opening of bids. Failure of any bidder to receive an addendum shall not relieve such bidder from the obligation imposed by such addendum. Bidders are to keep themselves currently acquainted with the Contract Documents during the entire bidding period and make inquiry on their own initiative as to issuance of any Addenda. Receipts of all Addenda shall be acknowledged on the *"Acknowledgement of Receipt of Changes"* included in the bid package and must be submitted with the bid.

5. OBLIGATION OF BIDDER TO INSPECT SITE AND CONTRACT DOCUMENTS

At the time of the opening of bids, each Bidder will be presumed to have inspected the site(s) and to have read, and be thoroughly familiar with the Contract Documents. The failure or neglect of any Bidder to receive or examine any form, instrument, or document shall in no way relieve any Bidder from any obligation in respect to its bid.

The Bidder shall examine the contents of the Project Manual and the set of Drawings and assure itself that all pages of the Specifications, Drawings, and other Contract Documents are included in the documents obtained for bidding purposes. Should the Specifications, Drawings, and other Contract Documents be incomplete, the Bidder shall notify the County Engineer in writing, who will supply the Bidder with any missing pages of Specifications, Drawings, or other Contract Documents. The lack of such written notification by the Bidder will be construed as evidence that the

Specifications, Drawings, or other Contract Documents supplied it for bidding purposes are full and complete and as a waiver of any subsequent claim to the contrary.

6. BID AND PERFORMANCE GUARANTEE

Each bidder must furnish a Bid Bond, Certified Check or Bank Cashier's Check in the amount of ten percent (10%) of the Bid. Checks shall be drawn to the order of the County of Union, New Jersey, not to exceed \$20,000.

Each bidder must furnish with the bid a certificate from a Surety Company, i.e. Consent of Surety, stating that in the event of the contract being awarded to said bidder, such Surety Company will provide the Contractor with bonds guaranteeing the faithful performance of the Work in accordance with the plans and specifications, and the payment for labor, materials, and all other indebtedness which may accrue on the account of this Work. A Performance, Labor and Materials Bond will be furnished by the Contractor upon an award of Contract, and will be in the amount of 100% of the contract price.

A one-year Maintenance Bond will be required upon acceptance of the Project by the County in the amount as stated in Section 15 of the General Specifications. Bonds will be written by a firm authorized to issue the bonds under the laws of the State of New Jersey and be in a form acceptable to the County Counsel.

N.J.S.A. 40A:11-1 et seq. allows the prime Contractor to furnish the Performance Security for his Subcontractors. The County of Union requires Performance Security to be furnished by the prime contractor for the entire job in the total amount of the contract.

The County will return all certified checks or cashier's checks after the proposals have been opened, tabulated and reviewed except those of the three (3) bidders lowest responsible bidders. The County will return the checks of these bidders when a contract is awarded to the successful bidder within ten (10) days after the award of the contract.

If the successful bidder refuses or neglects to sign an agreement and furnish the required bonds, the Bid Bond will be held and used by the County to offset any damages for such refusal or neglect.

7. COMMENCEMENT AND COMPLETION

Work will not commence until a Notice to Proceed is received from the County Engineer.

Upon substantial completion of the Project, the Contractor must request a joint inspection with the County Engineer. Upon completion of this inspection, the County Engineer will prepare a list of incomplete or incorrect items (punch list) and have Contractor initial and date same. The Contractor shall rectify all deficiencies noted on the punch list within 30 calendar days of receipt of the list. The County Engineer may approve extensions for extenuating circumstances.

8. BIDDER AFFIDAVIT

All Bidders are required to complete, sign, and submit with their Bid, the attached "Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders". (See form enclosed)

9. LABOR AND MATERIALS

The prices will cover all costs of any nature incident to and growing out of the Work, including all labor, material, equipment, transportation, loss by damage or destruction of the Project, settlement of damages, and for replacement of defective work or materials. N.J.S.A. 54:32B-1 et seq. exempts all materials sold to the County of Union from sales or use taxes and should not be included in the prices provided on the Bidding Sheet.

10. INSURANCE REQUIREMENTS

The County of Union requires all contractors to be able to comply with the following insurance requirements. In the event a bid is accepted by the County, the contractor must accept the applicable insurance requirements, as set forth below, as part of any contract awarded to it by the County.

Contractor shall carry and maintain at all times while the contract is in full force and effect, the following insurance coverage with an insurance company or companies acceptable to the County, with limits not less than those shown below. A Certificate of Insurance shall be filed with the County prior to commencement of any Work indicating the following:

- a) Commercial General Liability (CGL): Coverage for all operations including, but not limited to, contractual, products and completed operations, and personal injury with limits no less than \$5,000,000 per occurrence/\$10,000,000 aggregate. The County of Union, its Board of County Commissioners, officers, employees, agents and

servants shall be included as an additional insured. Coverage is provided on a primary and non-contributory basis to the County of Union, et al.

- b) Automobile Liability: Coverage for all owned, non-owned and hired vehicles with limits not less than \$5,000,000 per occurrence, combined single limits (CSL) or its equivalent.
- c) Workers Compensation: As required by the State of New Jersey and Employers Liability with limits not less than \$1,000,000 per accident for bodily injury or disease.
- d) Professional Liability (if design/build): Coverage with limits not less than \$1,000,000 per occurrence or claim, \$2,000,000 aggregate
- e) Contractor's Pollution Legal Liability and/or Asbestos Legal Liability and/or Errors & Omissions (if project involves environmental hazards): Coverage with limits no less than \$1,000,000 per occurrence or claim/\$2,000,000 aggregate.
- f) Builders Risk (for major renovations): During the course of construction utilizing an "All Risk" coverage form with limits equal to the completed value of the project and no coinsurance penalty provisions.

Where applicable, a waiver of subrogation in favor of the County of Union, its Board of County Commissioners, officers, employees, agents, servants and the State of New Jersey is to be included in those policies of insurance where permitted by law.

Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the Entity.

Special Risks or Circumstances: The County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.

11. INDEMNIFICATION REQUIREMENTS

The County of Union requires all bidders to accept the following indemnification requirements in the event the County accepts their bid. The Contract awarded by the County to the successful bidder will contain the following provision:

"To the fullest extent permitted by law the Contractor shall indemnify, defend, and hold harmless the owner and the owner's consultants, agents, representatives, and employees from and against any and all claims, damages, losses, costs, and

expenses, including, but not limited to attorneys' fees, legal costs and legal expenses arising out of or resulting from the performance of the Contractor's work under this contract, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the Contractor, anyone directly or indirectly employed or retained by the Contractor, or anyone for whose acts the Contractor may be liable regardless of whether caused in part by the negligent act or omission of a party indemnified hereunder provided it is not caused by the sole negligence of a party indemnified hereunder. Contractor shall further indemnify and hold harmless the County and the County's consultants, agents, representative, and employees from and against any and all claims, damages, losses, costs, and expenses, including, but not limited to attorneys' fees, legal costs and legal expenses, arising out of or resulting from performance of the work, provided that such claim, damage, loss, cost, or expense is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself) caused or alleged to be caused by the negligent acts, negligent omissions, and/or fault of the County or the County's consultants, agents, representatives, or employees and arises out of this project and provided such claim, damage, loss, cost, or expense is not caused by the sole negligence of a party indemnified hereunder."

12. ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees. He shall defend all suits or claims for infringement of any patent rights and shall hold the County harmless from loss on account thereof.

13. PLANS AND SPECIFICATIONS

In carrying out the Work, the plan(s) and the specifications will be followed by the Contractor. Minor alterations in the plan may be made or permitted by the County Engineer from time to time and, if no additional Work is necessary, there will be no additional charge for carrying out such minor alterations.

The Contractor shall provide the County Engineer a set of reproducible as-built drawings upon completion of the Project. The Contractor shall maintain an updated construction progress plan in the Project field office at all times.

When applicable, The New Jersey Department of Transportation Standard Specifications for Road and Bridge Construction, as amended, and Supplemental Specifications for State Aid Projects, herein after referred to as the "Standard

Specifications”, are made a part of these specifications and contract for the improvements, and will govern the construction of this Project, the material used and the execution of this Project, except as revised and modified herein. The references to these specifications are given herein for the purpose of aiding in the rapid location of the description of the various items herein specified. The entire Work must be carried on and completed to the satisfaction of the County. The Standard Specifications are amended as follows:

“Any reference to the Commissioner, Department, Department Laboratory, Engineer or Inspector should be redefined to be the County of Union”.

14. GUARANTEE AGAINST DEFECTIVE WORK

Prior to final payment being made or before the release of the performance security required by Section 3 above, the Contractor and Surety shall execute and deliver to the County an original Maintenance Bond with an original signature and seal having a penal sum equal to:

- A) One hundred percent (100%) of the final adjusted Contract amount, if such amount is \$50,000.00 or less;
- B) Fifty percent (50%) of the final adjusted Contract amount, if such amount be greater than \$50,000.00 but less than \$250,000.00; and,
- C) Twenty-five percent (25%) of the final adjusted contract amount, if such amount is \$250,000.00 or more.

The Bond and Surety shall be satisfactory to the Union County Counsel. The Surety shall hold a Certificate of Authorization to do business in the State of New Jersey and shall conform to P.L. 1995 c.384, codified as N.J.S.A. 2A:44-143, 144. The Surety Disclosure Statement and Certification required by N.J.S.A. 2A: 44-143, 144, shall be attached to the Bond. Such Maintenance Bond shall remain in full force and effect for a period of one (1) year from the date of Final Completion. Such Maintenance Bond shall also provide that the Contractor and the Surety guarantee to replace for the said period of one (1) year from the date of Final Completion, all Work performed and/or all materials furnished that were not performed or were not furnished in accordance to the terms and performance requirements of the Contract Documents, and will make good any defects thereof which become apparent before the expiration of one (1) year. If, during that period, any part of the Project, in the judgment of the Engineer, is found defective, the Contractor will repair or replace same within five (5) days of receipt of notice from the County Engineer. If the Contractor refuses or neglects to do such Work in the time specified, the County Engineer may have the Work done by others and the Contractor or his Surety thereof will pay the cost.

The Contractor will furnish the County a Maintenance Bond for a percentage of the final adjusted contract price, as stated above. The one (1) year period will start the day of Final Completion of Project by the County. Final payment is conditional on the receipt of a maintenance bond in a form acceptable to County Counsel.

15. TRAFFIC AND STREET MAINTENANCE

The Work must be started and performed by the Contractor in such a manner as to minimize delays to the traveling public. It must be completed in a timely fashion, with little or no inconvenience to traffic and pedestrians, where such inconvenience may be avoided.

All municipal, county, and state roadways shall remain open to traffic unless otherwise provided for in the technical specifications.

If modified traffic patterns are authorized in order to provide a safe working or traveling environment, the Contractor is responsible for providing all equipment, barrels, cones, signs, and barricades to implement the work zone and detours, unless otherwise specified in the technical specifications. All work zones and detours shall be established in accordance with the technical plans and specifications if provided or in strict compliance with the current version of the Manual for Uniform Traffic Control Devices (MUTCD). The Contractor shall obtain approval for these work zones and detour plans from the Municipal Police or applicable police agency and the Union County Bureau of Traffic Maintenance prior to implementation.

All traffic control plans shall provide for safe movement of vehicular, bicycle, and pedestrian traffic. Particular attention shall be given to requirements of the Americans with Disabilities Act.

No portion of any street or alleyway may be used for the storage of any materials or equipment without the approval of the Municipal Police or other applicable police agency. Sidewalks, gutters, drains, fire hydrants and private drives shall be maintained for their intended use unless specifically approved by the County Engineer.

Upon suspension of Work, at the end of the day or for protracted periods, the Contractor shall remove all rubbish and materials from the Work site to the approved storage/staging location. All road cuts, saw cuts, and trenches that may pose hazard to vehicular, pedestrian, or bicycle traffic, to include handicapped users, shall be filled to the surface of the roadway or sidewalk. At no time will steel plates or settled trenches be allowed at the daily suspension of Work, unless specifically approved by the County Engineer.

Use of Traffic Control Officers shall be determined by the County in accordance with the provisions of N.J.S.A. 40A:11-23.1(c). If applicable to the Project, the County shall have provided an allowance for same as set forth in the Bid Form.

With respect to pedestrian traffic, the Contractor shall install signs restricting access of the general public and, as necessary, Union County employees to the area of construction. The Contractor shall provide safe access to required areas and place physical barriers to restricted areas. These barriers may range from caution tape to actual barriers, at the direction of the County Engineer.

16. CONTRACTOR'S EMPLOYEES

The Contractor must employ only suitable and competent labor in the Work, and must remove from the Work any incompetent, unsuitable, or disorderly person upon complaint from the County Engineer.

The parties to any contract resulting from this proposal do hereby agree that the provisions of N.J.S.A. 10:2-1 through 10:2-4 (discrimination in employment on public works contracts): 34:11-56.25 et seq. (payment of prevailing rate of wages determined pursuant to N.J.S.A. 34:11-56.30 by the Commissioner), and the Rules and Regulations promulgated pursuant thereto, are hereby made a part of any contract and are binding upon them.

There will be no discrimination against any employee who is employed in the Work to be covered by any contract resulting from this bid because of age, race, creed, color, national origin, ancestry, marital status or sex.

Any person, firm, or corporation violating the provisions of this Section will be deemed and judged a disorderly person.

17. OWNERSHIP DISCLOSURES REQUIRED

Pursuant to P.L. 2016, c. 43, codified as N.J.S.A. 52:25-24.2, no corporation, partnership, or limited liability company shall be awarded any contract nor shall any agreement be entered into for the performance of any work or the furnishing of any materials or supplies the County unless prior to the receipt of the bid or accompanying the bid, of said corporation, said partnership, or said limited liability company there is submitted a statement setting forth the names and addresses of all stockholders in the corporation who own ten percent (10%) or more of its stock, of any class, or of all individual partners in the partnership who own a ten percent (10%) or greater interest therein, or of all members in the limited liability company who own a ten percent (10%) or greater interest therein, as the case may be. If one or more such stockholder or partner

or member is itself a corporation or partnership or limited liability company, the stockholders holding ten percent (10%) or more of that corporation's stock, or the individual partners owning ten percent (10%) or greater interest in that partnership, or the members owning ten percent (10%) or greater interest in that limited liability company, as the case may be, shall also be listed. The disclosure shall be continued until names and addresses of every non corporate stockholder, and individual partner, and member, exceeding the ten percent (10%) ownership criteria has been listed.

To comply with this section, a bidder with any direct or indirect parent entity which is publicly traded may submit the name and address of each publicly traded entity and the name and address of each person that holds a ten percent (10%) or greater beneficial interest in the publicly traded entity as of the last annual filing with the federal Securities and Exchange Commission ("SEC") or the foreign equivalent, and, if there is any person that holds a ten percent (10%) or greater beneficial interest, also shall submit links to the websites containing the last annual filings with the federal SEC or the foreign equivalent and the relevant page numbers of the filings that contain the information on each person that holds a ten percent (10%) or greater beneficial interest.

(See forms attached)

18. NON-COLLUSION AFFIDAVIT

The Bidder shall submit with its bid either the attached completed "Non-Collusion Affidavit" or a statement of non-collusion with verbiage similar to same.

19. EQUAL EMPLOYMENT OPPORTUNITY COMPLIANCES

The successful bidder shall be required to complete and submit an Initial Project Workforce Report, New Jersey Department of Treasury Form AA-201, upon notification of award. Failure to submit this completed form may result in the Contract being terminated.

The successful bidder shall also be required to submit a copy of its Monthly Project Workforce Report, New Jersey Department of Treasury Form AA-202, to the New Jersey Department of Treasury's Division of Public Contracts Equal Employment Opportunity Compliance and to the Board.

20. COMPLIANCE WITH NEW JERSEY PREVAILING WAGE ACT

The County of Union, in order to fulfill the requirements of N.J.S.A. 34:11-56.25 et seq, requires that the following additional conditions be strictly followed. The bidders represent that he is not listed or is not on record in the Office of the Commissioner or the

Department of Labor and Workforce Development as one who failed to pay prevailing wages in accordance with the provisions of this Act. The bidder agrees to the inclusion of a contract provision upon award which specifically requires said Contractor to fully comply with each and all of the requirements of the aforesaid Act as it relates to prevailing rates of wages on public contracts as set forth in the New Jersey Prevailing Wage Act, P.L. 1963, Chapter 150 and P.L. 1974, Chapter 64.

A Copy of the Prevailing Wage Rates is attached for your reference. Applicable rates are those wages and fringe benefit rates in effect on the date the contract is awarded. All predetermined rate increases listed at the time the contract award must also be paid, beginning on the dates specified. Rates may change between the time of issuance of this determination and the award of the public works contract. Therefore, prior to the award of the contract, verification must be made with the Public Contracts section, to insure that the rates contained in this determination are still prevailing.

The Contractor agrees to abide and be bound by each and all of the said statutory provisions with respect to the payment of prevailing rates of wages, and acknowledges that the County reserves the right to terminate the Contractor's (or his subcontractors') right to proceed with the scope of Work, or such portion thereof that relates to the failure to pay prevailing rates of wages. In such event or under the terms of N.J.S.A. 34:11-56.27, the Contractor and his surety will be liable to the County of Union for any excess costs occasioned by such a violation.

The Contractor or subcontractors for this Project will post the Prevailing Wage Rates for each craft and classification involved as determined by the Commissioner of Labor and Industry, including the effective date of any changes thereof, in prominent and easily accessible places at the site of the Work or at such place or places as are used by them to pay workmen their wages.

The County of Union requires a copy of payroll records from the Contractor and subcontractors. Payroll records shall be submitted with each voucher request for payment. Prevailing wage rates may be obtained from the New Jersey Labor, Division of Workplace Standards, Public Contracts Section, (609-292-2259).

In addition to compliance with the New Jersey Prevailing Wage Act, the County requires compliance with procedures established by Resolution No. 2014-0408 adopted by the Union County Board of County Commissioners on May 8, 2014. The resolution is furnished in Section 56 of these General Specifications.

UNION LABOR IS PREFERRED ON ALL COUNTY WORK

The foregoing reference to specific laws will not be deemed to be a limitation of obligation of the Contractor to perform his obligations in full compliance with the provisions and requirements of all federal and state statutes and local ordinances applicable to the Work to be done under the contract.

It is agreed and understood that any contracts and/or orders placed as a result of this proposal will be governed and construed and the rights and obligations of the parties hereto will be determined in accordance with the laws of the State of New Jersey.

Upon completion of the Work, the Contractor will furnish a Certification of Compliance with the New Jersey Prevailing Wage Act. The certificate in a form acceptable to County Counsel is a condition of the final payment. (See form attached)

21. BRAND NAME OR EQUAL

When the Specifications, Forms, and other Contract Documents use “brand name or equivalent” or similar language, the listed brand name shall serve as a reference or point of comparison for the functional or operational characteristic desired for the goods or services being requested. Where a bidder attempts to submit an equivalent product for a brand name, it shall be the responsibility of the bidder to fully describe and document the product to be provided with the bid in order to establish the equivalence claim.

- A. If the Bidder proposes to offer substitute goods as an equal to those specified herein, the bidder shall so indicate with the Bid Proposal. For the purposes of this paragraph, a proposed item shall be considered equal to goods specified herein if:
 - 1. The County, in its sole discretion, determines that: (i) the goods conform substantially, even with deviations, to the brand name goods specified herein; (ii) the goods are equal to or greater than the brand name goods specified herein in terms of quality, durability, functionality, appearance, strength and design; (iii) the goods are capable, at least as well as the brand name goods specified herein, or performing with existing equipment; and (iv) the goods do not cost the County more than the brand name goods specified herein costs the County.
- B. To offer substitute goods as an equal to those specified herein, it is necessary that:

1. The Bidder submits sufficient information with its bid to permit the County to determine that the goods are equivalent to the brand name goods specified herein, including, but not necessarily limited to the brand, catalog number and specifications/data sheets;
 2. The Bidder fully identifies and describes the variations of the goods from the brand name goods specified herein on a separate sheet that is to be submitted with the bid proposal. Bidder's literature WILL NOT suffice in explaining exceptions to these specifications.
 3. The Bidder certifies that the goods (i) are similar in substance to the brand name goods specified, and (ii) are suited to the same use as the item specified;
- C. The County shall be allowed a reasonable time within which to evaluate the Bidder's proposal to offer substitute goods as an equal to those specified herein. The County shall be the sole judge of acceptability. No "or-equal" goods shall be ordered, delivered, assembled, set-up or utilized until the County's evaluation is complete. The County's determination as to equivalency shall be deemed final and absolute.

In the event the Bidder does not provide sufficient supporting documentation with the bid, it will be presumed and required that the brand name goods and services as described in the specifications will be provided.

22. LINES AND GRADES

Normally, horizontal and vertical control points will be provided in the technical specifications. All other surveying will be the responsibility of the Contractor unless otherwise noted.

23. NUMBER OF WORKING DAYS

In accordance with N.J.S.A. 40A:11-17, the Work for the within Project shall be completed as specified on the Time of Completion Form. See form attached

There shall be taken a deduction from the contract price, or any wages paid by the County, to any inspector(s) necessarily employed by it on the Work, for any number of days in excess of the number allowed in the specifications.

24. PROMPT PAYMENT OF CONSTRUCTION CONTRACTS (NJ Prompt Payment Act)

Pursuant to N.J.S.A. 2A:30A-1 et seq., payment to the Contractor, other than for Work done pursuant to a contact allowance, where applicable, shall be processed and paid as follows:

1. All contractor bills shall be either approved for payment, or notice provided as to why the bill or any portion of it will not be approved by the representative(s) of the governing body no later than the public meeting following 20 calendar days of the billing date as defined in the statute.
2. If the billing is approved, said bill shall be paid in the payment cycle following the meeting.

25. STOPPING WORK ON ACCOUNT OF BAD WEATHER

Work must only be performed in weather suitable for the type of construction planned or underway. Extremes in temperature, humidity, precipitation, evaporation, etc. can detrimentally affect the constructed product. Refer to the Standard and Technical Specifications for specific items.

26. ACCESS FOR OTHER CONTRACTORS

The Contractor for this Work will give proper access to other contractors who may be employed upon the Project and must not hinder or delay unnecessarily any Work that may be progressing under other contracts.

27. CONDEMNED MATERIALS AND WORK

Any materials and or part of the Work that may be condemned by the County Engineer will be removed and replaced by the Contractor or otherwise rectified, as may be directed by the County Engineer. No payment will be made upon the Work until such faulty work has been made good as may be directed. In the event the Contractor refuses or neglects to make good such faulty work, he will be deemed to have abandoned the contract and proceedings may be taken against him as provided herein.

28. STORAGE

In the event that it is necessary for the Contractor to stockpile or store materials or equipment on the job site, the Contractor shall inform the County of such necessity and

the County may offer available space, if any, for storage of such materials or equipment. The Contractor shall use said space only for such purpose. Any and all materials which may be stored in such space or which may be brought onto the job site at any time by the Contractor will be at the Contractor's sole risk. The County will not be responsible for loss of or damage to said materials or equipment for any cause whatsoever. The Contractor shall take necessary measures to protect any such storage area and shall be responsible for any and all damages.

29. FINAL CLEAN UP

Upon completion of the Work, the Contractor will remove all equipment, unused materials, rubbish, etc., and will repair, or replace in an a manner acceptable to the County Engineer, all areas that may have been damaged in the prosecution of the Work. Same shall be a condition precedent to final payment. Should said Contractor fail to comply with this requirement, the County shall undertake the clean-up with its own forces and charge the cost of same against the Contractor's contract balance.

30. SUB-LETTING OF WORK

Except for the List of Subcontractors, pursuant to N.J.S.A. 40A:11-16 (See form attached), no portion of the Work will be sublet by the Contractor to any other entities, except with the consent of the County Engineer. A complete list of subcontractors must be submitted to the County Engineer at the preconstruction meeting. If the job does not warrant a preconstruction meeting, the Contractor must submit such list prior to the start of Work.

All Subcontractors will be subject to N.J.S.A. 34:11-56 et al.

N.J.S.A. 40A:11-16 requires the bidder to list in the bid sheets the name or names of all subcontractors involved in the following types of Work: plumbing and gas fitting and all kindred work, steam and hot water heating, ventilating apparatus, steam power plants and kindred work, electrical work, ornamental iron work, and structural steel. In addition, the County may require the identification of specific additional subcontractors. If these trades are expected to be part of the contract, such subcontractors should be listed on the "Subcontractor Identification Statement List of Subcontractors" and Bidder shall certify same on the accompanying sheet titled "Subcontractor Identification Certification". (See forms attached) **Bidder's failure to submit these two forms shall be considered a material defect and result in rejection of Bidder's bid.** Substitutions of any listed subcontractors pursuant to N.J.S.A. 40A:11-16 will not be permitted except with the consent of the County Engineer.

31. SAFETY

The Contractor shall observe all rules and regulations of the Federal, State, and local health officials. Attention is directed to Federal, State, and local laws, rules, and regulations concerning construction safety and health standards. The Contractor shall not require any worker to work in surroundings or under conditions that are unsanitary, hazardous, or dangerous to the worker's health or safety.

The Contractor shall admit to the site, without delay and without the presentation of an inspection warrant, any inspector of OSHA or other legally responsible agency involved in safety and health administration upon presentation of proper credentials.

The Contractor shall make available to the Contractor's employees, subcontractors, the County Engineer, and the public, all information pursuant to OSHA 29 CFR Part 1926.59 of The Hazard Communication Standard 29 CFR 1910.1200, and shall also maintain a file on each job site containing all Material Safety Data Sheets (MSDS) for products in use at the Project. These Material Safety Data Sheets shall be made available to the Engineer upon request.

The Contractor shall at all times conduct the Work to provide for the safety and convenience of the general public and protection of persons and property. The safety provisions of applicable laws, OSHA regulations, building and construction codes, and the rules and regulations of the New Jersey Department of Labor and Workforce Development shall be observed.

32. QUALITY, SAFETY AND PERFORMANCE STANDARDS

All goods and services must be constructed and provided with the highest quality materials and workmanship. It is the intent of these specifications that only equipment equal to, or exceeding, the standard specified will be acceptable in order to protect the safety of the occupants of the Building.

33. MATTERS NOT MENTIONED IN CONTRACT DOCUMENTS

Any Work, material, or method, not specifically described in these specifications, but shown upon the plans of the Work, will be carried out as shown on said plan.

34. PERMITS

The Contractor will obtain all necessary permits required by law and provide the County with necessary approvals prior to commencement of permitted Work.

35. CONTRACTOR TO PROVIDE PROOF OF PAYMENT

Upon the completion of the Work, the Contractor will furnish a General Release as proof that all claims for labor, materials, etc., have been settled by the Contractor. The General Release, in a form acceptable to County Counsel, is a condition of final payment.

36. CHANGE ORDERS

The applicability of change orders and change order procedures shall comply with *N.J.S.A. 40A:11-16.7* and *N.J.A.C. 5:30-11.1 et seq.*, "Change Orders and Open End Contracts".

37. SUPPLEMENTAL WORK

In case any supplemental work is necessary, it will be performed by the Contractor at a price fixed by agreement between the Contractor and the County Engineer and approved by the County as specified in Section 36. The Contractor will do no supplemental work on any character, for which the Contractor will demand pay, except upon the written order of the County.

38. FORM OF CONTRACT

The Contract will be subject to all statutory provisions on the matter of Public Works, Public Contracts, The Law Against Discrimination, the Laws Governing Affirmative Action and Prevailing Rates of Wages under the laws of New Jersey.

The Agreements shall be executed by both parties not later than twenty-one (21) days from the date of the award by the County (Sundays and holidays excluded); however, such time frame may be extended by agreement of the parties.

39. PROGRESS PAYMENTS

Monthly progress payments will be made based on the value of labor and materials incorporated in the Work and of materials suitably stored at the site. An itemized schedule of values shall be submitted with each Application for Payment.

(Refer to the Owner/Contractor Agreement for Retainage and other conditions pertaining to payment and the application of *N.J.S.A. 2A:30A-1 et seq.*)

All Applications for Payment shall be accompanied by paid invoices for materials incorporated in the Work and for materials suitably stored at the site, and affidavit(s) by

Subcontractors whose Work was included in the next to the last application to the effect such Work and such materials have been paid for.

No payment shall be made without Contractor having provided all submittals set forth in this Section, and the approval of same by the County.

For contracts exceeding \$100,000.00, monthly payments will be made on the Work to the extent of 98% of the value of the Work done which is considered to be retainage.

For contracts less than \$100,000.00, monthly payments will be on the Work to the extent of 90% of the value of the Work done. In lieu of the retainage, the Contractor will, at his option, deposit with the County Counsel negotiable bearer bonds of the State of New Jersey or any political subdivision thereof, equal to the amount otherwise withheld as retainage.

When the Project is completed, the final cost of the Project will be based on actual quantities of authorized Work done under each item scheduled in the bidding sheet and approved Change Orders, if any. The money due to the Contractor as determined by said final certificate after deduction of previous monthly payments on account, will be paid to the Contractor in accordance with the terms of the contract dealing with Prompt Payment, providing, however that before such final payment is made, all outstanding claims against the Contractor must be satisfied. Before final payment is released, the Contractor must furnish: **a)** Maintenance Bond (see Section 6 of these general specifications); **b)** Certification of Compliance, New Jersey Prevailing Wage Act (see Sections 21 and 51); and **c)** General Release (see Section 36) in a form satisfactory to County Counsel; **d)** complete set of as-built plans in the latest AutoCad on compact disc; and **e)** a complete set of in-progress photos in jpg, jpeg, or bmp digital format on a compact disc.

40. INSPECTION

The Work must be done in accordance with the plans and specifications, and will be inspected by the County Engineer. An inspector may be placed upon the Work at any time by the County Engineer to see that the plans, specifications, and instructions of the County Engineer are carried out. In connection herewith, bidders are referred to N.J.S.A. 40A:11-17.

41. DAMAGES

The Contractor will be held responsible for all damages that may occur to Work, or to persons or property by reason of the nature of the Work or from the elements, or by reason of inadequate protection of the Work, or from any carelessness or negligence on his part or on the part of his employees. The County will withhold payments on the Work

until all suits or claims for damages sustained on, or by reason of, this Work will have been settled by the Contractor.

The construction and final completion of this Work will be guaranteed by the Contractor. Any damages that may be done to the Work or any part thereof, by the elements or otherwise, during its construction, will be made good by the Contractor.

42. LIQUIDATED DAMAGES

If the Project is not completed within the time specified herein or within such further time as may have been granted by the County Engineer, then the Contractor hereby agrees to pay to the County as liquidated damages, but not as a penalty, \$1,000.00 per day for each and every calendar day that he is in default on time to complete the Work. The said sum will be deducted from moneys due the Contractor and if the damages exceed this amount, then the Contractor or his Surety Company will pay the excess. These damages may be waived at the option of the County.

43. AFFIRMATIVE ACTION REQUIREMENTS

(REVISED 01/2022)

EXHIBIT B

MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE

N.J.S.A. 10:5-31 et seq. (P.L.1975, c.127)

N.J.A.C. 17:27-1.1 et seq.

CONSTRUCTION CONTRACTS

During the performance of this contract, the contractor agrees as follows:

The contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship.

The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the Public Agency Compliance Officer setting forth provisions of this nondiscrimination clause.

The contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B, and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

(A) If the contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the contractor or subcontractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the contractor or subcontractor agrees to afford equal employment

opportunities minority and women workers directly, consistent with this chapter. If the contractor's or subcontractor's prior experience with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under (B) below; and the contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

(B) If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of (A) above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the contractor or subcontractor agrees to take the following actions:

- (1) To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
- (2) To notify any minority and women workers who have been listed with it as awaiting available vacancies;
- (3) Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
- (4) To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;
- (5) If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and nondiscrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
- (6) To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:

(i) The contractor or subcontractor shall interview the referred minority or women worker.

(ii) If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Dept. of LWD, Construction EEO Monitoring Program. If necessary, the contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of (C) below.

(iii) The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Dept. of LWD, Construction EEO Monitoring Program, the contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.

(iv) If, for any reason, said contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Dept. of LWD, Construction EEO Monitoring Program.

(7) To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Dept. of LWD, Construction EEO Monitoring Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program upon request.

(C) The contractor or subcontractor agrees that nothing contained in (B) above shall preclude the contractor or subcontractor from complying with the union hiring hall or

apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the contractor or subcontractor shall consider for employment persons referred pursuant to (B) above without regard to such agreement or arrangement; provided further, however, that the contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the contractor or subcontractor agrees that, in implementing the procedures of (B) above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the contractor shall submit to the public agency compliance officer and the Dept. of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the public agency by the Dept. of LWD, Construction EEO Monitoring Program, through its website, for distribution to and completion by the contractor, in accordance with N.J.A.C. 17:27-7. The contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the public agency compliance officer.

The contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women. (D) The contractor and its subcontractors shall furnish such reports or other documents to the Dept. of LWD, Construction EEO Monitoring Program as may be requested by the Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

44. INVESTMENT ACTIVITIES IN IRAN

Pursuant to N.J.S.A. 52:32-55 et seq., prohibits State and local public contracts with persons or entities engaging in certain investment activities in energy or finance sectors of Iran.

45. NON-INVOLVEMENT ACTIVITIES IN RUSSIA OR BELARUS

Pursuant to N.J.S.A. 52:32-60.1 et seq., Pursuant to N.J.S.A. 52:32-60.1, et seq. (L. 2022, c. 3) any person or entity (hereinafter "Vendor") that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here:

<https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

46. COMPLIANCE WITH THE PUBLIC WORKS CONTRACTOR REGISTRATION ACT - (N.J.S.A. 34:11-56.48 et. seq.)

Pursuant to the above-referenced law, Bidders are required to be registered with the New Jersey Department of Labor and Workforce Development and to possess a current certificate by said Department indicating compliance with the Act prior to the time and date that bids are received. Bidders are notified of this requirement of their compliance. Such certificates or applications shall also be provided for each Subcontractor furnishing plumbing and gas fitting, steam and hot water heating and ventilating apparatus, and all kindred work, steam power plants and kindred work, electrical work, structural steel and ornamental iron work, and such other subcontractors as the specifications require relative to prior identification.

47. UTILITIES

Attention of the bidder is directed to the fact that the approximate locations of known utility structures and facilities that may be encountered within and adjacent to the limits of the Work are shown on the plans and described herein. The accuracy and completeness of this information is not guaranteed by the County Engineer and the bidder is advised to ascertain for himself all the facts concerning the location of these and other utilities.

The Contractor will not proceed with his Work until he has made diligent inquiries of all public utility and municipal officials to determine the exact location of all underground structures and pipes within the site of the Project. The Contractor will notify utility owners not less than ten (10) days in advance of the time he proposes to perform any Work that will endanger or affect their facilities in compliance with **New Jersey One-Call**. In excavating in any part of the Work, care must be taken not to remove or damage

any gas, water, sewer, or other pipe, conduit, or structure, - public or private - without the concurrence of the owner and the County Engineer. The Contractor will, at his own expense, shore up, secure and maintain a continuous flow in such structures, and will keep them in repair until final acceptance of the Work.

When pipes or other structures are encountered or when the removal, relocation or protection of these utilities are necessary in carrying out the Project as planned, the Contractor will cooperate with the owner of said utilities and will permit the owners or their agents access to the site of the Work in order to relocate or protect their facilities and not hinder or delay unnecessarily the Work of the owners in moving same. No extra allowance of payment will be made to the Contractor for the use of any materials, equipment, etc., or for the performance of any Work in connection with the moving of said structures unless the Contractor is specifically ordered by the County Engineer to furnish such materials, equipment, or services. If directed by the County Engineer to do any Work or furnish any materials or equipment, payment will be allowed the Contractor in accordance with the unit prices bid for such Work, or, if such items are not scheduled in the proposal, such Work shall be allowed "Supplemental Work" as provided in Section 39 of these general specifications. The corporations, companies, agencies or municipalities owning or controlling the utilities, and the name, and telephone numbers are listed in the beginning of the Technical Specifications.

48. MATERIAL COMPLIANCE AND SHOP DRAWINGS

The Contractor will require the manufacturer or supplier to furnish three (3) copies of Certification of Compliance with each delivery of materials, components and manufactured items for the Project. Two (2) copies will be furnished to the County Engineer; one copy will be retained by the Contractor. Certificates of Compliance will contain the following information:

1. Project to which material is consigned;
2. Name of the Contractor to which the material is supplied;
3. Kind of material supplied;
4. Quantity of material represented by the Certificate;
5. Means of identifying the consignment, such as label marking, seal number, etc.;
6. Date and method of shipment;
7. That the material is in conformity with the pertinent specifications stated in the certificate; and
8. Signature of a person having legal authority to bind the supplier.

The Contractor will submit to the County Engineer for his approval five (5) copies of complete and fully detailed shop or working drawings for those items listed in the beginning of the technical specifications.

Each drawing will identify the name of the job, location and Contractor.

All drawings will be approved in accordance with the standard specifications. Refer to the Technical Specifications for specific items.

All materials or articles used in the Work will be of American manufacture, insofar as same are available, in conformance with N.J.S.A. 40A:11-18.

49. PRECONSTRUCTION

In order to provide full coordination of this Project among the parties concerned, the County Engineer will arrange for a preconstruction meeting between the Contractor, County Engineer and other interested parties as soon as possible after the contract is executed. At this meeting the Contractor will present his proposed schedule of Work which shall be subject to review and approval of the County through its designated representatives.

50. DISPUTES UNDER THE CONTRACT

A dispute arising under the Contract shall be submitted in writing to the County Engineer with all facts and supporting data. The County Engineer will review the dispute and issue his decision or request additional facts or documentation after which he will render his decision.

In the event the dispute is not then resolved, the matter shall, pursuant to law, be submitted to mediation before being submitted to a court of competent jurisdiction venued in Union County.

The County Engineer will notify the County Counsel when a matter is to be submitted to mediation. The County Counsel will communicate with the parties and inform them of the procedures to be followed in making such a submission.

51. CONTRACTOR BUSINESS REGISTRATION CERTIFICATE

Pursuant to N.J.S.A. 52:32-44, the County of Union is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the County of Union with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

Proof of registration must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids. If subcontractors are named on the bid, proof of the business registration for each must be provided prior to the award of a contract. Similarly, to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

During the course of contract performance:

- 1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- 2) the contractor shall maintain and submit to the County of Union a list of subcontractors and their addresses that may be updated from time to time.
- 3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the County of Union a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

52. BID PROTEST – LEGAL FEES AND COSTS

In the event a Bidder unsuccessfully challenges a Bid Submission by filing an action in a court of law concerning same, said Bidder shall be responsible for payment of reasonable legal costs and fees incurred by the County relating to said protest.

53. AMERICAN GOODS AND PRODUCTS WHERE POSSIBLE

Bidder shall comply with the requirements of N.J.S.A. 40A:11-18 and use only manufactured and farm products of the United States, wherever available, for the Project.

54. NEW JERSEY PAY-TO-PLAY REQUIREMENTS

This Contract is required by law to be publicly advertised for bids. As such, lists of political contributions pursuant to N.J.S.A. 19:44A-1 et seq. are NOT REQUIRED to be provided with the bids.

55. STATEMENT OF EQUIPMENT TO BE USED IN CONSTRUCTION

Pursuant to N.J.S.A. 40A:11-20 entitled Certificate of Bidder Showing Ability to Perform Contract, the County requires a Certification from all bidders submitting a bid showing that the Bidder owns, leases, or controls all necessary equipment required by the Project Plans and Specifications. All bidders shall provide this information at the time of the bid opening using the attached form entitled, "CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT".

If the Bidder is not the actual owner of the equipment, it shall state the source from which the equipment will be obtained and shall attach a certificate from the owner or person in control of the equipment demonstrating that the equipment owner has granted the Bidder control of the requisite equipment during such time as may be necessary for completion of the portion of the contract for which the equipment is necessary.

56. NEW JERSEY SALES AND USE TAX REQUIREMENTS,

Contractors are required to comply with the following:

New Jersey Sales and Use Tax Requirements: All contractors with subcontractors, or any of their affiliates, who enter into contracts for the provision of goods or services with or for New Jersey local government entities, are required to collect and remit to the New Jersey Director of Taxation in the Department of the Treasury the use tax due on all of their

sales of tangible personal property delivered into the State of New Jersey pursuant to the "Sales and Use Tax Act," (N.J.S.A. 54:32B-1 et seq.), regardless of whether the tangible personal property is intended for a contract with the contracting agency. This tax shall be remitted for the term of the Contract.

For purposes herein "affiliate" shall mean any entity that: (a) directly, indirectly, or constructively controls another entity, (b) is directly, indirectly, or constructively controlled by another entity, or (c) is subject to the control of a common entity. For purposes of the immediately preceding sentence, an entity controls another entity if it owns, directly or indirectly, more than fifty percent (50%) of the ownership interest in that entity. NJSA 52:32-44(g)(3).

57. RESOLUTION NO. 2014-408

WHEREAS, the County of Union recognizes there is a need to ensure that all work on significant public construction and maintenance contracts is performed by responsible, qualified firms that maintain the capacity, expertise, personnel, and other qualifications and resources necessary to successfully perform public contracts in a timely, reliable, and cost-effective manner; and

WHEREAS, in order to effectuate the purpose of selecting responsible contractors for significant public contracts and to protect Union County's capital investments in such contracts prospective contractors and subcontractors should be required to meet pre-established, clearly-defined, minimum standards relating to contractor responsibility, including retirements and criteria concerning qualifications, competency) expertise, adequacy of resources, including equipment, financial and personnel, and satisfactory records regarding past project performance, safety, legal compliance and business integrity; and

WHEREAS, the County has a compelling interest in assuring that its Public Works Projects meet the highest standard of safety and quality; and

WHEREAS, due to the critical impact that skilled construction craft labor has on public works projects, and due to the limited availability of skilled construction craft labor and imminent craft labor skill shortages, it is necessary to require contractors and subcontractors to participate in established, formal apprenticeship training programs for the purpose of both promoting successful project delivery and ensuring future workforce development; and

WHEREAS, an apprenticeship program is a structured system of training designed to prepare individuals for occupations and lifelong careers in skilled trades and crafts by providing a wage-paying job that incorporates extensive workplace and classroom training under the supervision of experienced workers, in preparation for highly skilled occupations; and

WHEREAS, apprenticeship programs are a critical component in public safety, by ensuring that workers on public projects are properly trained, able, competent and capable craftsmen, and provide assurance of compliance with the County's bid specifications and achieve high quality standards; and

WHEREAS, for an apprenticeship program to be fully effective, the public and private sectors must recognize its value and commit to supporting its mission; and

WHEREAS, Union County has long recognized the value of apprenticeship programs through its support of the Union County Vocational-Technical Schools, which offer training programs to help ensure that Union County will continue to produce a skilled and educated work force in the trade specialties, and thus, strengthen Union County's economy by fostering the development of highly paid trade and craft careers; and

WHEREAS, the use of apprenticeship programs or apprenticeship trained employees on Union County Public Works Projects will serve the dual goal of providing the County with assurance that its public works projects are completed with a well-trained workforce, in a highly skilled and timely fashion, while creating opportunities for careers in the skilled trades and craft industry for County residents; and

WHEREAS, the County of Union also recognizes that it is beneficial to their employees to utilize fair business, employment, and training practices that have a positive impact on local communities affected by such contracts:

NOW, THEREFORE, BE IT RESOLVED by the Board of Chosen Freeholders of the County of Union as follows:

1. The County of Union shall require compliance with the provisions of this Resolution by business entities seeking to provide services to the County of Union as specified herein. The requirements of this Resolution are intended to supplement, not replace, existing contractor qualifications

and performance standards or criteria currently required by law, public policy or contracting documents, including but not limited to Union County's DPMC classification and Project Labor Agreement policies

2. All contractors and subcontractors that perform significant work on any public facility or public works project, including construction, alteration, renovation, repair, service, or maintenance work, shall meet the requirements of this Resolution. For purposes of this Resolution, the term "significant work" shall be defined as any work or activity covered under the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 et seq.

3. All firms engaged in contracts covered by this Resolution shall be qualified responsible contractors or subcontractors that have sufficient capabilities in all respects to successfully perform contracts on which they are engaged, including the necessary experience, equipment, technical skills and qualifications and organizational, financial and personnel resources. Firms bidding on public contracts shall also be required to have a satisfactory past performance record and a satisfactory record of legal compliance, integrity and business ethics. Compliance with these standards shall be established by compliance with the requirements set forth in paragraph 8 of this Resolution.

4. As a condition of performing work on public works contracts over the public works threshold, the general contractor shall provide certification that he and each subcontractor working on the project shall have at least one (1) employee who has successfully completed the OSHA 10-hour construction safety and health course. As a condition of performing work on public works contracts of \$500,000.00 or more total cost of project, the general contractor shall provide certification that each subcontractor working on the project shall have at least one (1) employee who has successfully completed the OSHA 30-hour construction safety and health course.

5. All contractors and subcontractors that perform significant work on any public facility or public works project shall be required to affirmatively provide evidence of and confirm compliance with proof of participation in an Apprenticeship Program currently registered and approved by the United States Department of Labor ("USDOL"), the New Jersey Department of Labor ("NJDOL") or any state having equal to or higher requirements as either the USDOL or NJDOL apprenticeship programs. Additionally, Apprenticeship Programs shall meet the criteria set forth in Section 8(i) of this Resolution.

6. As a condition of performing work on public works contracts subject to this Resolution, a general contractor seeking award of a contract shall submit a Contractor Responsibility Certification at the time it submits its bid for contract.

7. The Contractor Responsibility Certification shall be completed on a form provided by the Union County Purchasing Department and shall reference the project for which a bid is being submitted by name and contract or project number.

8. In the Contractor Responsibility Certification, general contractors and subcontractors shall certify the following facts regarding their past performance and work history and its current qualifications and performance capabilities:

a. The firm has all valid, effective licenses, registrations or certificates required by federal, state, county, or local law, including, but not limited to, licenses, registrations, certificates required to: (1) do business in the designated locale; and (2) perform the contract work it seeks to perform. These shall include, but not be limited to, licenses, registrations or certificates for any type of trade work or specialty work, which the firm proposes to self-perform.

b. The firm meets the bonding requirements for the contract, as required by applicable law or contract specifications and any insurance requirements, as required by applicable law or contract specifications, including general liability insurance, workers compensation insurance and unemployment requirements.

c. The firm has not been debarred by any federal, state or local government agency or authority in the past three (3) years.

d. The firm has not defaulted on any project in the past three (3) years.

e. The firm has not had any type of business, contracting or trade license, registration, or other certification suspended or revoked in the past three (3) years.

f. The firm has not been cited and found guilty for a willful violation of federal or state safety laws in the past three (3) years.

g. The firm and/or its owners have not been convicted of any crime relating to the contracting business by a final decision of a court or government agency in the past three (3) years.

h. The firm will pay all craft employees that it employs on the project the current wage rates and benefits as required under applicable Federal or State prevailing wage laws.

i. The firm participates in an Apprenticeship Program that is currently registered with the USDOL, the NJDOL or any state having equal to or higher requirements as either the USDOL or NJDOL apprenticeship programs, for each craft or trade in which it apprentices. The firm shall provide proof of meeting this qualification standard by submitting appropriate documentation as an attachment to this Certification. The firm shall continue to participate in applicable apprenticeship programs for the full duration of the contract work. The apprenticeship program in which the firm participates shall have graduated at least one (1) enrollee in each of the past three (3) years.

9. The County of Union may conduct any additional inquiries to verify that the prospective awardee and its subcontractors have the technical qualifications and performance capabilities necessary to successfully perform the contract and that the firms have a sufficient record of legal compliance and business integrity to justify the award of a public contract. In conducting such inquiries, the County of Union may seek relevant information from the firm, its prior clients or customers, its subcontractors or any other relevant source.

10. If any provision of this Resolution shall be held to be invalid or unenforceable by a court of competent jurisdiction, any such holding shall not invalidate any other provisions of this Resolution and all remaining provisions shall remain in full force and effect.

NOW, THEREFORE, BE IT RESOLVED by the Board of Chosen Freeholders of the County of Union that it hereby establishes and adopts the Responsible Contractor Policy, and it hereby authorizes the County Manager to sign any and all documents necessary to make said Policy effective immediately.

58. FEDERAL TERMS

TERMS AND CONDITIONS APPLICABLE TO ALL CONTRACTS/PURCHASES FUNDED, IN WHOLE OR IN PART, BY FEDERAL FUNDS.

The provisions set forth below apply to all contracts funded, in whole or in part, by Federal funds as required by 2 CFR 200.317.

1. CONTRACTING WITH SMALL AND MINORITY BUSINESSES, WOMEN'S BUSINESS ENTERPRISES, AND LABOR SURPLUS AREA FIRMS

Pursuant to 2 CFR 200.321, the State must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible. Accordingly, if subawards are to be made the Contractor shall:

- (1) Include qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Divide total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
- (4) Establish delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises; and,
- (5) Use the services and assistance, as appropriate, of such organizations as the Small Business Administration and the Minority Business Development Agency of the Department of Commerce.

2. DOMESTIC PREFERENCE FOR PROCUREMENTS

Pursuant to 2 CFR 200.322, where appropriate, the State has a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). If subawards are to be made the Contractor shall include a preference for the purchase, acquisition, or use of goods, products, or materials produced in the United States (including but not limited to iron, aluminum, steel, cement, and other manufactured products). For purposes of this section:

- (1) "Produced in the United States" means, for iron and steel products, that all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- (2) "Manufactured products" means items and construction materials composed in whole or in part of nonferrous metals such as aluminum; plastics and polymer-based products such as polyvinyl chloride pipe; aggregates such as concrete; glass, including optical fiber; and lumber.

3. PROCUREMENT OF RECOVERED MATERIALS

Where applicable, in the performance of contract, pursuant to 2 CFR 200.323, the contractor must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency

(EPA) at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$ 10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.

To the extent that the scope of work or specifications in the contract requires the contractor to provide recovered materials the scope of work or specifications are modified to require that as follows.

- i. In the performance of this contract, the Contractor shall make maximum use of products containing recovered materials that are EPA-designated items unless the product cannot be acquired—
 1. Competitively within a timeframe providing for compliance with the contract performance schedule;
 2. Meeting contract performance requirements; or
 3. At a reasonable price.
- ii. Information about this requirement, along with the list of EPA- designated items, is available at EPA's Comprehensive Procurement Guidelines web site, <https://www.epa.gov/smm/comprehensive-procurement-guideline-cpg-program>.
- iii. The Contractor also agrees to comply with all other applicable requirements of Section 6002 of the Solid Waste Disposal Act."

4. EQUAL EMPLOYMENT OPPORTUNITY

Except as otherwise provided under 41 CFR Part 60, all contracts that meet the definition of "federally assisted construction contract" in 41 CFR Part 60-1.3 must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246, "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60, "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor." See, 2 CFR Part 200, Appendix II, para. C.

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:
Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has

inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.

- (4) The contractor will send to each labor union or representative of workers with which he/she has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.
- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and

subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

5. DAVIS-BACON ACT, 40 U.S.C. 3141-3148, AS AMENDED

When required by Federal program legislation, all prime construction contracts in excess of \$2,000 shall be done in compliance with the Davis-Bacon Act (40 U.S.C. 3141- 3144, and 3146-3148) and the requirements of 29 C.F.R. pt. 5 as may be applicable. The contractor shall comply with 40 U.S.C. 3141-3144, and 3146-3148 and the requirements of 29 C.F.R. pt. 5 as applicable. Contractors are required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. Additionally, contractors are required to pay wages not less than once a week. The non-Federal entity must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract or subcontract must be conditioned upon the acceptance of the wage determination. The non-Federal entity must report all suspected or reported violations to the Federal awarding agency.

6. COPELAND ANTI-KICKBACK ACT

Where applicable, the Contractor must comply with Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3, "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States").

- a. Contractor. The Contractor shall comply with 18 U.S.C. § 874, 40 U.S.C. § 3145, and the requirements of 29 C.F.R. pt. 3 as may be applicable, which are incorporated by reference into the OGS centralized contract.
- b. Subcontracts. The Contractor or subcontractor shall insert in any subcontracts the clause above and such other clauses as FEMA may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all of these contract clauses.
- c. Breach. A breach of the clauses above may be grounds for termination of the OGS

centralized contract, and for debarment as a Contractor and subcontractor as provided in 29 C.F.R. § 5.12.

7. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT, 40 U.S.C. 3701-3708

Where applicable, all contracts awarded by the non-Federal entity in excess of \$ 100,000 that involve the employment of mechanics or laborers must comply with 40 U.S.C. 3702 and 3704, as supplemented by Department of Labor regulations (29 CFR Part 5).

- (1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
- (2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (b)(1) of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (b)(1) of this section, in the sum of \$27 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (b)(1) of this section.
- (3) Withholding for unpaid wages and liquidated damages. The unauthorized user shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (b)(2) of this section.
- (4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (b)(1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (b)(1) through (4) of this section.

8. RIGHTS TO INVENTIONS MADE UNDER A CONTRACT OR AGREEMENT

If the Federal award meets the definition of "funding agreement" under 37 CFR § 401.2 (a) and the recipient or subrecipient wishes to enter into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under that "funding agreement," the recipient or subrecipient must comply with the requirements of 37 CFR Part 401, "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under

Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the awarding agency.

9. CLEAN AIR ACT, 42 U.S.C. 7401-7671Q, AND THE FEDERAL WATER POLLUTION CONTROL ACT, 33 U.S.C. 1251-1387, AS AMENDED

Where applicable, Contracts and subgrants of amounts in excess of \$150,000, must comply with the following:

Clean Air Act

1. The contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq.
2. The contractor agrees to report each violation to the Division of Purchase and Property and understands and agrees that the Division of Purchase and Property will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

Federal Water Pollution Control Act

1. The contractor agrees to comply with all applicable standards, orders, or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq.
2. The contractor agrees to report each violation to the Division of Purchase and Property and understands and agrees that the Division of Purchase and Property will, in turn, report each violation as required to assure notification to the Federal Emergency Management Agency, and the appropriate Environmental Protection Agency Regional Office.
3. The contractor agrees to include these requirements in each subcontract exceeding \$150,000 financed in whole or in part with Federal assistance provided by FEMA.

10. DEBARMENT AND SUSPENSION (EXECUTIVE ORDERS 12549 AND 12689)

- (1) This contract is a covered transaction for purposes of 2 C.F.R. pt. 180 and 2 C.F.R. pt. 3000. As such, the contractor is required to verify that none of the contractor's principals (defined at 2 C.F.R. § 180.995) or its affiliates (defined at 2 C.F.R. § 180.905) are excluded (defined at 2 C.F.R. § 180.940) or disqualified (defined at 2 C.F.R. § 180.935).
- (2) The contractor must comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, and must include a requirement to comply with these regulations in any lower tier covered transaction it enters into.
- (3) This certification is a material representation of fact relied upon by the State or authorized user. If it is later determined that the contractor did not comply with 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C, in addition to remedies available to the State or authorized user, the Federal Government may pursue available remedies, including but not limited to suspension and/or debarment.
- (4) The bidder or proposer agrees to comply with the requirements of 2 C.F.R. pt. 180, subpart C and 2 C.F.R. pt. 3000, subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further

agrees to include a provision requiring such compliance in its lower tier covered transactions.

11. BYRD ANTI-LOBBYING AMENDMENT, 31 U.S.C. 1352

Contractors that apply or bid for an award exceeding \$100,000 must file the required certification. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the non-Federal award. Such disclosures are forwarded from tier to tier up to the recipient who in turn will forward the certification(s) to the awarding agency.

12. PROHIBITION ON CERTAIN TELECOMMUNICATIONS AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT

(a) Recipients and subrecipients are prohibited from obligating or expending loan or grant funds to:

- (1) Procure or obtain;
- (2) Extend or renew a contract to procure or obtain; or
- (3) Enter into a contract (or extend or renew a contract) to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system. As described in Public Law 115–232, section 889, covered telecommunications equipment is telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
 - (i) For the purpose of public safety, security of government facilities, physical security surveillance of critical infrastructure, and other national security purposes, video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
 - (ii) Telecommunications or video surveillance services provided by such entities or using such equipment.
 - (iii) Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

13. CONTRACTS FOR MORE THAN THE SIMPLIFIED ACQUISITION THRESHOLD

Contracts for more than the simplified acquisition threshold, which is the inflation adjusted amount determined by the Civilian Agency Acquisition Council and the Defense Acquisition Regulations Council (Councils) as authorized by 41 U.S.C. 1908, must address administrative, contractual, or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.

14. TERMINATION FOR CONVENIENCE PROVISION

All contracts in excess of \$10,000 must address termination for cause and for convenience by the non-Federal entity including the manner by which it will be effected and the basis for settlement.

15. BONDING REQUIREMENTS

For construction or facility improvement contracts or subcontracts exceeding the Simplified Acquisition Threshold, the Federal awarding agency or pass-through entity may accept the bonding policy and requirements of the non-Federal entity provided that the Federal awarding agency or pass-through entity has made a determination that the Federal interest is adequately protected. If such a determination has not been made, the minimum requirements must be as follows:

(a) A bid guarantee from each bidder equivalent to five percent of the bid price. The “bid guarantee” must consist of a firm commitment such as a bid bond, certified check, or other negotiable instrument accompanying a bid as assurance that the bidder will, upon acceptance of the bid, execute such contractual documents as may be required within the time specified.

(b) A performance bond on the part of the contractor for 100 percent of the contract price. A “performance bond” is one executed in connection with a contract to secure fulfillment of all the contractor's requirements under such contract.

(c) A payment bond on the part of the contractor for 100 percent of the contract price. A “payment bond” is one executed in connection with a contract to assure payment as required by law of all persons supplying labor and material in the execution of the work provided for in the contract.

EDWARD T. OATMAN
COUNTY MANAGER

MICHELLE HAGOPIAN, ASSISTANT DIRECTOR
DIRECTOR / DIVISION OF PURCHASING

BID DOCUMENT SUBMISSION CHECKLIST

**ALL SIGNATURES AND SEALS SHALL BE ORIGINALS UNLESS OTHERWISE SPECIFIED
BID SHEETS SHOULD NOT BE SUBMITTED DOUBLE SIDED PAGES, (SINGLE SIDE ONLY)**

EACH BIDDER SHOULD COMPLETE THIS FORM AND INITIAL EACH ENTRY.

DATE COMPLETED: _____

**PLEASE SUBMIT BID DOCUMENTS ON SINGLE SIDED PAPER ONLY, WITH THE EXCEPTION OF THE SURETY
AND BID BOND DOCUMENTS.**

**IN ACCORDANCE WITH THE BID SPECIFICATIONS I HAVE REVIEWED, COMPLETED / EXECUTED AND INCLUDED
THE FOLLOWING FORMS:**

_____ Bid Form Page (**Signed, Dated and Bid on all alternatives applicable to the Work**).

_____ Security in the form of:

- _____ Bid bond in an amount equal to 10% of the total amount of this bid not to exceed \$20,000.00; or
- _____ Certified check or cashier's check in the amount of 10% of this bid not to exceed \$20,000.00

_____ Consent of Surety form signed by a Surety Company if the total amount of your Bid is over \$36,000.00.

If your bid is accepted, the Surety Company that provided the Consent shall be required to furnish a Performance, Labor and Materials Bond in the amount of 100% of the award of the contract.

The County of Union has provided its Consent of Surety form for your use. The use of this form by your Surety Company will expedite the bid review process and eliminate the possibility of having your bid rejected. If, however, you should need to use another form, please use language similar to that used on the Union County form and avoid making any additions or deletions to the Union County form language. In lieu of the Consent of Surety you may submit a Certified Check in the full amount of the bid.

_____ STATEMENT OF BIDDER OWNERSHIP. Pursuant to N.J.S.A. 52:25-24.2, which includes **BOTH** of the following documents:

- Bidder Signature Page
- Bidder Disclosure Statement (**Fill out 2 pages completely**)

_____ SUBCONTRACTOR IDENTIFICATION. Pursuant to N.J.S.A. 40A:11-16, which includes **BOTH** of the following documents:

- Subcontractor Identification Statement: List of Subcontractors (**only for certain types of work**)
- Subcontractor Identification Certification

_____ Acknowledgement of Addendum form: (**This form is to be used only when an addendum has been added to the specifications**).

_____ A copy of the State of New Jersey Department of the Treasury, Division of Revenue, **Business Registration Certificate ("BRC")** may be included with the bids to expedite the contract process because the bidder is required to provide the County of Union with its proof of business registration and that of any named subcontractor(s) prior to contract award or authorization.

_____ A copy of the State of New Jersey Department of the Treasury, Division of Revenue, **Business Registration Certificate ("BRC")** of all named or listed subcontractors (List of Subcontractors) in a Construction bid may be included with the bid as the BRC(s) for each named or listed subcontractors in order to expedite the contract process. Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

Bidders name: _____

- _____ Affirmative Action Requirement
- _____ Experience Statement
- _____ Certificate of Bidder showing ability to perform Contract
- _____ Non-Collusion Affidavit – Fill out completely and notarize
- _____ Certificates from New Jersey Department of Labor and Workforce Development – Public Works Contractor Registration Act. **(Only for certain types of work)**
- _____ Federal Attachments **(If applicable)**
- _____ NJDPMC Certificate / Notice of Classification **(If applicable)**
- _____ Americans with Disabilities Act
- _____ Statement of Bidder's Qualifications
- _____ Contractor Performance Record
- _____ Affidavit Regarding List of Debarred, Suspended or Disqualified Bidders
- _____ Prior Negative Experience Questionnaire
- _____ Contractor's Certification of Compliance – New Jersey Prevailing Wage Act
- _____ Uncompleted Contracts Affidavit **(For Bidder, if applicable) MUST ALSO PROVIDE DPMC FORM 701**
- _____ Certificate of Insurance Statement
- _____ Collection of Use Tax on Sales to Local Government Statement
- _____ Time of Completion
- _____ Disclosure of Investment Activities in Iran
- Disclosure of Non-Involvement in Activities in Russia or Belarus
- _____ Federal Non-Debarment Certification
- _____ BYRD Anti-Lobbying Amendment Certification
- _____ Certification regarding Lobbying
- _____ Disclosure of Lobbying Activities (LLL Form)

I HAVE TAKEN THE FOLLOWING ACTIONS:

- _____ Visited the site and attended the Pre-Bid Meeting **(Where applicable)**
- _____ Reviewed the Contract Documents (including any permits the County or its professionals may have obtained), Work, Site, Locality, and Local Conditions and Laws and Regulations that in any manner may affect Cost, Progress, Performance or Furnishing of Work.
- _____ Reviewed Bond Requirements
- _____ Provided Proof of Compliance with New Jersey Prevailing Wage Act

Bidders name: _____

_____ Reviewed Form of Owner/Contractor Agreement and General Conditions to the Contract

NOTE: QUESTIONS PERTAINING TO THIS BID ARE TO BE DIRECTED TO THE DIVISION OF PURCHASING AT ucbids@ucnj.org.

BIDDING DOCUMENTS

The Bidding Documents consist of the following items:

- **ADDENDA, if issued**
- **CLARIFICATIONS, if issued**
- **INSTRUCTION TO BIDDERS**
- **BID FORM**
- **SPECIFICATIONS:** **As outlined in the Table of Contents and included in the Project Manual.**
- **DRAWINGS:** **As per List of Drawings, indicated on the Project Title Sheet.**

BID FORM

I/We have carefully examined the plans, specifications, and advertisement for bid for the

**Intersections along East and West 7th Street (CR 601) and the Intersection of East Front Street (CR 620) and
Leland Avenue, City of Plainfield, County of Union,
Federal Project No. HISP-D00S(627) CON
BA# 1-2025; Union County Engineering Project #2018-006**

that is on file in the Union County Division of Engineering. I/We have inspected the site of the work and will contract to do all the work and furnish all materials mentioned in said plans and specifications. Work will be accomplished in the manner prescribed therein.

BASE BID ITEMS:

ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	UNIT PRICE	AMOUNT
151006M	PERFORMANCE BOND AND PAYMENT BOND	DOLL	DOLL		
152004P	OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE	DOLL	DOLL		
152015P	POLLUTION LIABILITY INSURANCE	DOLL	DOLL		
153003P	PROGRESS SCHEDULE	LS	LUMP SUM		
153005M	PROGRESS SCHEDULE UPDATE	U	5		
154003P	MOBILIZATION	LS	LUMP SUM		
157004M	CONSTRUCTION LAYOUT	DOLL	DOLL		
158012M	HEAVY DUTY SILT FENCE, BLACK	LF	478		
158030M	INLET FILTER TYPE 2, 2' X 4'	U	22		
158063P	CONCRETE WASHOUT SYSTEM	LS	LUMP SUM		
158069M	OIL-WATER SEPARATOR	U	1		
158072M	OIL ONLY EMERGENCY SPILL KIT, TYPE 1	U	1		
158084M	EROSION CONTROL SEDIMENT REMOVAL	CY	20		
159003M	BREAKAWAY BARRICADE	U	104		
159006M	DRUM	U	124		
159009M	TRAFFIC CONE	U	124		
159012M	CONSTRUCTION SIGNS	SF	600		
159027M	FLASHING ARROW BOARD, 4' X 8'	U	2		
159030M	PORTABLE VARIABLE MESSAGE SIGN	U	2		
159108M	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	U	2		
159126M	TEMPORARY TRAFFIC STRIPES, 4"	LF	1000		
159138M	HMA PATCH	T	20		
160004M	FUEL PRICE ADJUSTMENT	DOLL	DOLL		
160007M	ASPHALT PRICE ADJUSTMENT	DOLL	DOLL		
161003P	FINAL CLEANUP	LS	LUMP SUM		
201003P	CLEARING SITE	LS	LUMP SUM		
202006M	EXCAVATION, TEST PIT	CY	10		
202009P	EXCAVATION, UNCLASSIFIED	CY	98		

202021P	REMOVAL OF PAVEMENT	SY	785		
302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	SY	785		
401009P	HMA MILLING, 3" OR LESS	SY	6914		
401027M	POLYMERIZED JOINT ADHESIVE	LF	5850		
401030M	TACK COAT	GAL	310		
401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	T	1157		
401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	T	96		
401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	T	358		
602051M	INLET, TYPE B-2 MODIFIED	U	1		
602105M	SET INLET TYPE B, CASTING	U	21		
606012P	CONCRETE SIDEWALK, 4" THICK	SY	915		
606084P	DETECTABLE WARNING SURFACE	SY	40		
607021P	9" X 18" CONCRETE VERTICAL CURB	LF	1348		
610003M	TRAFFIC STRIPES, 4"	LF	4700		
610008M	TRAFFIC MARKINGS, SYMBOLS	SF	250		
610014M	TRAFFIC MARKING LINES, 8"	LF	2490		
610016M	TRAFFIC MARKING LINES, 12"	LF	2430		
610017M	TRAFFIC MARKING LINES, 24"	LF	620		
610036M	REMOVAL OF TRAFFIC STRIPES	LF	1610		
612021M	RELOCATE SIGN	U	4		
651255M	RESET WATER VALVE BOX	U	19		
652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	U	17		
653084M	RESET GAS VALVE BOX	U	3		
654029M	RESET ELECTRIC MANHOLE	U	2		
701033P	4" RIGID NONMETALLIC CONDUIT	LF	3268		
701099M	17" X 30" JUNCTION BOX	U	36		
701102M	18" X 36" JUNCTION BOX	U	10		
701117M	JUNCTION BOX FOUNDATION	U	3		
701123M	FOUNDATION, TYPE SFT	U	20		
701132M	FOUNDATION, TYPE P-MC	U	5		
701135M	FOUNDATION, TYPE SPF	U	22		
701171M	METER CABINET, TYPE TL	U	5		
701192P	GROUND WIRE, NO. 8 AWG	LF	1630		
701210P	SERVICE WIRE, NO. 2 AWG	LF	1100		
701213P	SERVICE WIRE, NO. 6 AWG	LF	1950		
702018M	PEDESTRIAN SIGNAL STANDARD	U	22		
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	LF	5202		
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	LF	5659		
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	LF	5931		
702036M	TRAFFIC SIGNAL HEAD	U	62		
702038M	PUSH BUTTON INSTALLATION	U	15		

Bidders name: _____

702039M	PEDESTRIAN SIGNAL HEAD	U	40		
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	U	40		
702045M	IMAGE DETECTOR	U	20		
702059M	GPS UNIT	U	5		
702062M	APS CONTROL UNIT	U	5		
702101M	UNINTERRUPTIBLE POWER SUPPLY	U	5		
703003M	LIGHTING STANDARD ALUMINUM	U	3		
703012M	LIGHTING MAST ARM ALUMINUM	U	3		
703018M	LUMINAIRE	U	3		
704084M	CONTROLLER, CTSS	U	5		
704090M	CONTROLLER, CTSS TURN ON	U	5		
804000P	TOPSOIL SPREADING 4" THICK	SY	1140		
804015P	BORROW TOPSOIL	CY	438		
806003P	FERTILIZING AND SEEDING, TYPE A	SY	1140		
809003M	STRAW MULCHING	SY	1140		
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	U	12		
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	U	4		
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	U	4		
159141M	TRAFFIC DIRECTOR, POLICE	ALLOW ANCE	DOLL		

TOTAL BASE BID AMOUNT:

Written _____

Figures _____

BID CONTINGENCY: (To be used if and when directed by the County)

Written _____

Figures _____

TOTAL BASE BID ITEMS PLUS BID CONTINGENCY AMOUNT:

Written _____

Figures _____

NOTE: Bid Contingency may include one-half of one percent of contract amount set aside for local training if and when directed by the County.

Bidders name: _____

CONSENT OF SURETY
TO ACCOMPANY PROPOSAL (BID)

_____ (hereinafter called Surety), organized and existing under the laws of the State of _____ duly authorized and qualified to transact business in the State of New Jersey, in consideration of the sum of One Dollar (\$1.00), lawful money of the United States of America, to it in hand paid, receipt whereof is hereby acknowledged, and in consideration, hereby certifies and agrees that if the contract for which the attached proposal is made be awarded to _____ (hereinafter called Contractor) for the performance of certain work and labor or the supplying of certain materials, or both, as more particularly set forth in said proposal and described for purposes of this instrument as a proposal for _____ to the COUNTY OF UNION and if Contractor shall enter into the contract, Surety will become bound as surety for its faithful performance, labor and material payment and will provide the Contractor with a performance, labor and material payment bond in the full amount of the contract price.

NOTE:
Expiration date
Needed if Annual
Surety

NAME OF INSURANCE COMPANY

ADDRESS: _____

ORIGINAL SIGNATURE
ATTORNEY-IN-FACT FOR INSURANCE CO.

NOTE: **PROOF OF AUTHORITY OF OFFICERS OF SURETY COMPANY TO EXECUTE THIS DOCUMENT
MUST BE SUBMITTED.**

Bidders name: _____

BIDDER SIGNATURE PAGE

THE BIDDER MUST READ THE FOLLOWING INSTRUCTIONS TO COMPLETE THIS PAGE:

1. If doing business under a **trade name, partnership or a sole proprietorship**, you must submit the bid under exact title of the trade name, partnership, or proprietorship, and the bid must be signed by either the **owner**, or a **partner** and **witnessed** by a **notary public**.
2. If a **Corporation**, the bid must be signed by the **President** or **Vice President** and **witnessed** by a **Corporate Secretary** (corporate title must be exact) and **affix corporate seal**. If a Corporate Secretary does not exist, President or Vice President's signature shall be witnessed by a Notary Public.
3. Other persons **authorized** by **corporate resolution** to execute agreements in its behalf may also sign the bid documents (pages). **Copy of a resolution must accompany the bid**.
4. The person who signs this bid form **must also** sign the **Non-Collusion Affidavit**.
5. You **cannot** witness your own signature.

NAME OF BIDDER

ADDRESS OF BIDDER

**ORIGINAL SIGNATURE
CORPORATE SECRETARY**

**PRINT NAME AND TITLE
CORPORATE SECRETARY**

TEL: _____
FAX: _____
E-Mail: _____

BY: _____
ORIGINAL SIGNATURE

Corporate Seal

PRINT OR TYPE NAME AND TITLE

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY SUPPLY THE INFORMATION REQUESTED ON THIS PAGE, YOUR BID MAY BE REJECTED.

STATEMENT OF OWNERSHIP DISCLOSURE

N.J.S.A. 52:25-24.2 (P.L. 1977, c.33, as amended by P.L. 2016, c.43)

This statement shall be completed, certified to, and included with all bid and proposal submissions. Failure to submit the required information is cause for automatic rejection of the bid or proposal.

Name of Organization: _____

Organization Address: _____

Part I Check the box that represents the type of business organization:

- ☐ Sole Proprietorship (skip Parts II and III, execute certification in Part IV)
- ☐ Non-Profit Corporation (skip Parts II and III, execute certification in Part IV)
- ☐ For-Profit Corporation (any type) ☐ Limited Liability Company (LLC)
- ☐ Partnership ☐ Limited Partnership ☐ Limited Liability Partnership (LLP)
- ☐ Other (be specific): _____

Part II

- ☐ The list below contains the names and addresses of all stockholders in the corporation who own 10 percent or more of its stock, of any class, or of all individual partners in the partnership who own a 10 percent or greater interest therein, or of all members in the limited liability company who own a 10 percent or greater interest therein, as the case may be. **(COMPLETE THE LIST BELOW IN THIS SECTION)**
- OR**
- ☐ No one stockholder in the corporation owns 10 percent or more of its stock, of any class, or no individual partner in the partnership owns a 10 percent or greater interest therein, or no member in the limited liability company owns a 10 percent or greater interest therein, as the case may be. **(SKIP TO PART IV)**

(Please attach additional sheets if more space is needed):

Name of Individual or Business Entity	Address

Part III DISCLOSURE OF 10% OR GREATER OWNERSHIP IN THE STOCKHOLDERS, PARTNERS OR LLC MEMBERS LISTED IN PART II

If a bidder has a direct or indirect parent entity which is publicly traded, and any person holds a 10 percent or greater beneficial interest in the publicly traded parent entity as of the last annual federal Security and Exchange Commission (SEC) or foreign equivalent filing, ownership disclosure can be met by providing links to the website(s) containing the last annual filing(s) with the federal Securities and Exchange Commission (or foreign equivalent) that contain the name and address of each person holding a 10% or greater beneficial interest in the publicly traded parent entity, along with the relevant page numbers of the filing(s) that contain the information on each such person. **Attach additional sheets if more space is needed.**

Website (URL) containing the last annual SEC (or foreign equivalent) filing	Page #'s

Please list the names and addresses of each stockholder, partner or member owning a 10 percent or greater interest in any corresponding corporation, partnership and/or limited liability company (LLC) listed in Part II **other than for any publicly traded parent entities referenced above**. The disclosure shall be continued until names and addresses of every noncorporate stockholder, and individual partner, and member exceeding the 10 percent ownership criteria established pursuant to N.J.S.A. 52:25-24.2 has been listed. **Attach additional sheets if more space is needed.**

Stockholder/Partner/Member and Corresponding Entity Listed in Part II	Address

Part IV Certification

I, being duly sworn upon my oath, hereby represent that the foregoing information and any attachments thereto to the best of my knowledge are true and complete. I acknowledge: that I am authorized to execute this certification on behalf of the bidder/proposer; that the **County of Union** is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the completion of any contracts with **County of Union** to notify the **County of Union** in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the, permitting the **County of Union** to declare any contract(s) resulting from this certification void and unenforceable.

Full Name (Print):		Title:	
Signature:		Date:	

Bidders name: _____

SUBCONTRACTOR IDENTIFICATION STATEMENT

LIST OF SUBCONTRACTORS

This form is ONLY required for plumbing and gas fitting, steam and hot water heating and ventilating apparatus, steam power plants, electrical work, structural steel, ornamental iron work, and any other trades required to be identified by the specifications (including, but not limited, to satisfying any DPMC Classification requirements).

CHECK THIS BOX IF NONE OF THE ABOVE LISTED TRADES OR THOSE REQUIRED TO BE IDENTIFIED IN THE SPECIFICATIONS ARE TO BE USED TO PERFORM THE WORK

In compliance with N.J.S.A. 40A:11-16 and the bid specifications, the undersigned hereby lists the name or names of the following subcontractors:

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

Company Name: _____

Address: _____

Telephone: _____ Subcontract Amount: \$ _____

Specific Scope of Work Subcontracted: _____

License No. _____

IF MORE THAN THREE SUBCONTRACTORS, PLEASE COPY THIS SHEET AS NECESSARY AND ATTACH TO THE BID PACKAGE.

(Continued on following page)

Bidders name: _____

SUBCONTRACTOR IDENTIFICATION CERTIFICATION

Note the law does not permit the listing of alternate subcontractors. However, multiple subcontractors for the same trade are permitted to be named provided the bidder meets the following requirements:

- Bidder identifies each subcontractor named for that category;
- Bidder states the scope of work, goods and services (the portion of the work) to be performed by each subcontractor; and
- Bidder provides the price quote provided by each subcontractor.

The bidder is advised that any change of subcontractor(s) from ones listed herein is subject to the County’s approval. Change of subcontractor(s) will be approved only if made for good cause and not as a result of an arbitrary purpose.

The undersigned Bidder certifies and declares that the subcontractors listed above shall be used as subcontractors to complete certain portions of the work in this project as set forth in N.J.S.A. 40A: 11-16.

Witness

Date _____

NAME OF BIDDER

ADDRESS

By: _____
ORIGINAL SIGNATURE ONLY

PRINT NAME AND TITLE

Bidders name: _____

ACKNOWLEDGMENT OF ADDENDUM

COUNTY OF UNION

(Name of Construction /Public Works Project)

(Project or Bid Number)

Pursuant to N.J.S.A. 40A:11-23.1a., the undersigned bidder, hereby acknowledges receipt of the following notices, revisions, or addenda to the bid advertisement, specifications or bid documents. By indicating date of receipt, bidder acknowledges the submitted bid takes into account the provisions of the notice, revision or addendum. Note that the County of Union’s record of notice to bidders shall take precedence and that failure to include provisions of changes in a bid proposal may be subject for rejection of the bid.

Local Unit Reference Number or Title of Addendum/Revision	How Received (mail, fax, pick- up, etc.)	Date Received

ACKNOWLEDGMENT BY BIDDER:

NAME OF BIDDER: _____

ORIGINAL SIGNATURE: _____

PRINTED NAME AND TITLE: _____

DATE: _____

CONTRACTOR BUSINESS REGISTRATION CERTIFICATE

New Mandatory Requirement - Effective 1/18/2010

The recently enacted **P.L. 2009, c.315**, requires that effective January 18, 2010; a contracting agency must receive proof of the bidder's business registration prior to the award of a contract. However, the proof must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

If subcontractors are named on the bid, proof of the business registration for each subcontractor must be provided prior to the award of bid. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

Proof of business registration shall be

- ☐ A copy of a Business Registration Certificate issued by the Department of the Treasury, Division of Revenue;
- or
- ☐ A copy of the web version provided by the NJ Division of Revenue, or

Register online at www.nj.gov/treasury/revenue/taxreg.htm. Click the "online" link and then select "Register for Tax and Employer Purposes or call the Division at 609-292-1730.

Note: A NJ Certificate of Authority is not acceptable.

FAILURE to submit proof of registration of the bidder or any subcontractor named on the bid prior to the award of a contract shall be cause to reject the bids.

FAILURE of the bidder or any subcontractor named on the bid to be registered prior to the receipt of bids is cause for a **MANDATORY REJECTION** of bids. (A NON-WAIVABLE DEFECT). This covers construction work as well as non-construction bids.

IN ADDITION:

The contractor shall provide written notice to all **subcontractors and suppliers** not specifically named on the bid of the responsibility to register and submit proof of business registration to the contractor. The requirement of proof of business registration extends down through all levels (tiers) of the project.

Before final payment on the contract is made by the contracting agency, the contractor shall submit an accurate list and the proof of business registration of each subcontractor or supplier used in the fulfillment of the contract, or shall attest that no subcontractors were used.

For the term of the contract, the contractor and each of its affiliates and a subcontractor and each of its affiliates [N.J.S.A. 52:32-44(g)(3)] shall collect and remit to the Director, New Jersey Division of Taxation, the use tax due pursuant to the Sales and Use Tax Act on all sales of tangible personal property delivered into this State, regardless of whether the tangible personal property is intended for a contract with a contracting agency.

A business organization that fails to provide a copy of a business registration as required pursuant to section 1 of P.L.2001,c.134 (C.52:32-44 et al.) or subsection e. or f. of section 92 of P.L.1977,c.110 (C.5:12-92), or that provides false business registration information under the requirements of either of those sections, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000 for each business registration copy not properly provided under a contract with a contracting agency.

Bidders name: _____

BUSINESS REGISTRATION

Pursuant to N.J.S.A. 52:32-44, the County of Union is prohibited from entering into a contract with an entity unless the bidder/proposer/contractor, and each subcontractor that is required by law to be named in a bid/proposal/contract has a valid Business Registration Certificate on file with the Division of Revenue and Enterprise Services within the Department of the Treasury.

Prior to contract award or authorization, the contractor shall provide the County of Union with its proof of business registration and that of any named subcontractor(s).

Subcontractors named in a bid or other proposal shall provide proof of business registration to the bidder, who in turn, shall provide it to the County of Union prior to the time a contract, purchase order, or other contracting document is awarded or authorized.

Proof of registration must show that the bidder was in fact registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids. If subcontractors are named on the bid, proof of the business registration for each must be provided prior to the award of a contract. Similarly to the bidder, the proof must show that each subcontractor was registered with the State of New Jersey Department of the Treasury, Division of Revenue and obtained the business registration prior to the receipt of bids.

During the course of contract performance:

- (1) the contractor shall not enter into a contract with a subcontractor unless the subcontractor first provides the contractor with a valid proof of business registration.
- (2) the contractor shall maintain and submit to the County of Union a list of subcontractors and their addresses that may be updated from time to time.
- (3) the contractor and any subcontractor providing goods or performing services under the contract, and each of their affiliates, shall collect and remit to the Director of the Division of Taxation in the Department of the Treasury, the use tax due pursuant to the Sales and Use Tax Act, (N.J.S.A. 54:32B-1 et seq.) on all sales of tangible personal property delivered into the State. Any questions in this regard can be directed to the Division of Taxation at (609)292-6400. Form NJ-REG can be filed online at <http://www.state.nj.us/treasury/revenue/busregcert.shtml>.

Before final payment is made under the contract, the contractor shall submit to the County of Union a complete and accurate list of all subcontractors used and their addresses.

Pursuant to N.J.S.A. 54:49-4.1, a business organization that fails to provide a copy of a business registration as required, or that provides false business registration information, shall be liable for a penalty of \$25 for each day of violation, not to exceed \$50,000, for each proof of business registration not properly provided under a contract with a contracting agency.

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE
FOR STATE AGENCY AND CASINO SERVICE CONTRACTORS

TAXPAYER NAME: TAX REGISTRATION TEST ACCOUNT
TRADE NAME: CLIENT REGISTRATION
TAXPAYER IDENTIFICATION: 010-007-382/500
SEQUENCE NUMBER: 0107530
ADDRESS: 847 ROEBLING AVE
TRENTON, NJ 08611
ISSUANCE DATE: 01/14/04
EFFECTIVE DATE: 01/01/01
FORM BRC(06-01)

DEPARTMENT OF TREASURY
DIVISION OF REVENUE
PO BOX 285
TRENTON, NJ 08646

Signature: [Signature]
Date: 01/14/04

This Certificate is NOT assignable or transferable. It must be conspicuously displayed at above address.

STATE OF NEW JERSEY
BUSINESS REGISTRATION CERTIFICATE

Taxpayer Name: TAX REG TEST ACCOUNT
Trade Name:
Address: 847 ROEBLING AVE
TRENTON, NJ 08611
Certificate Number: 1093907
Date of Issuance: October 14, 2004

For Office Use Only:
20041014112813533

ATTACH BRC HERE

Bidders name: _____

AFFIRMATIVE ACTION REQUIREMENT

REQUIRED AFFIRMATIVE ACTION EVIDENCE

General Requirements of P.L. 1975, c. 127: You are hereby put on notice that:

CONSTRUCTION CONTRACTS: The successful contractor must submit within three (3) days of the notice of intent to award or the signing of the contract the initial project manning report (A.A.201). This report should be submitted at the time the signed contract is returned to the County of Union. Attention: *Affirmative Action Officer*.

If the successful contract does not submit the initial project manning report (A.A.201) within the three (3) days from the time the signed contract is returned to the County of Union, the County of Union WILL declare the contractor non-responsive and award the contract to the next lowest responsible bidder.

NAME OF BIDDER

ORIGINAL SIGNATURE

PRINT OR TYPE NAME AND TITLE

DATE THIS FORM IS COMPLETED

Bidders name: _____

EXPERIENCE STATEMENT

I hereby certify that my company has performed the following private or public work, which is relevant to this bid. I further certify that my company has never defaulted under any contract. Should you not sign this form due to prior defaults, please provide details on an attached sheet.

Witness

Date

NAME OF BIDDER

ADDRESS

By: _____
ORIGINAL SIGNATURE ONLY

PRINT NAME AND TITLE

YOU MAY ATTACH ADDITIONAL SHEETS, BUT YOU MUST SIGN AND WITNESS THIS SHEET.

Bidders name: _____

CERTIFICATE OF BIDDER SHOWING ABILITY TO PERFORM CONTRACT

STATE OF NEW JERSEY / _____)
COUNTY OF _____) Specify, if Other SS:

I, _____, of the (City, Town, Borough, etc.) of _____
_____ State of _____, of full age, being duly sworn according to law on my oath depose and say that:

I am _____ of the firm of _____, the Bidder making
the proposal for the above named Project ("Contractor"), and that I executed said proposal with full authority to do so; and
that said Contractor, pursuant to N.J.S.A. 40A:11-20, certifies that it owns, leases or controls all the necessary equipment
required by the Plans, Specifications and Advertisements under this Bids are asked for.

If the Bidder is not the actual owner or lessee of any such equipment, then the Bidder shall attach to this Certificate
information identifying the source from which the equipment will be obtained, and such information shall be accompanied
by a certificate from the owner or person in control of the equipment definitively granting to the Bidder the control of the
equipment required during such time as may be necessary for the completion of that portion of the contract.

(Also type or print name of affiant under signature)

By: _____

Bidders name: _____

NON-COLLUSION AFFIDAVIT
(N.J.S.A. 52:34-15)

STATE OF _____)
) SS: _____
COUNTY OF _____)

I _____, of the City of _____, in the County of _____, and the State of _____, of full age, being duly sworn according to law, on my oath depose and say that: I am _____ of the firm of _____, the bidder making the proposal for the above named project, and that I executed the said proposal for the above named project, and that I executed the said proposal with full authority to do so; that said bidder has not, directly or indirectly, entered into any agreement, participation in any collusion, or otherwise taken any action in restraint of free, competitive bidding in connection with the above named project; and that all statements contained in said proposal and in this Affidavit are true and correct, and made with full knowledge that the COUNTY OF UNION, NEW JERSEY relies upon the truth of the statements contained in said proposal and in the statements contained in the affidavit in awarding the contract for the said project.

I further warrant that no person or selling agency has been employed or retained to solicit or secure such contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bonafide established commercial or selling agencies maintained by _____ (N.J.S.A. 52:34-15).

NAME OF BIDDER

ORIGINAL SIGNATURE ONLY

NOTE: The person who signed the bidder signature page for the bidder should sign this form also.

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/_____
Specify Other State

My Commission Expires _____, 20__.

WARNING: IF YOU FAIL TO FULLY, ACCURATELY, AND COMPLETELY FILL OUT THIS AFFIDAVIT OF NON-COLLUSION, YOUR BID MAY BE REJECTED.

Contractor Registration Advisement
For Public Works Projects

A new law, known as "The Public Works Contractor Registration Act" (P.L. 1999, c.238), became effective April 11, 2000. Under the Act, no contractor/subcontractor will be permitted to bid on or engage in any contract for public work, as defined in Section 2 of P.L. 1963, c.150 (C:34:11-56.26), unless that contractor/subcontractor is registered with the New Jersey Department of Labor and Workforce Development. The Act provides that upon registration with the Department, a public works contractor/subcontractor will be issued a certificate by the Department indicating compliance with the Act's requirements. The registration fee has been set at \$300.00 per year. Upon the effective date of the Act, public bodies will be expected to request production of such a certificate from those bidding on or engaging in public works projects.

It is important to note that the term "contractor," is defined in the, Act as, "a person, partnership, association, joint stock company, trust, corporation or other legal business entity or successor thereof who enters into a contract which is subject to the provision of the "New Jersey Prevailing Wage Act," P.L. 1963, c.150 (C.34:11-56.25, et seq.) for the construction, reconstruction, demolition, alteration, repair or maintenance of a public building regularly open to and used by the general public or a public institution, and includes any subcontractor or lower tier subcontractor as defined herein: except that, for the purposes of the act, no pumping station, treatment plant or other facility associated with utility and environmental construction, reconstruction, demolition, alteration, repair or maintenance shall be regarded as a public building regularly open to and used by the general public or a public institution."

Registration forms, copies of the Act, and other relevant information can be obtained by contacting:

Contractor Registration Unit
New Jersey Department of Labor and Workforce Development
Division of Wage & Hour Compliance
PO Box 389
Trenton, New Jersey 08625-0389
Telephone: 609-292-9464
Fax: 609-633-8591
E-mail: contreg@dol.state.nj.us

AMERICANS WITH DISABILITIES ACT
EQUAL OPPORTUNITY FOR INDIVIDUALS WITH DISABILITIES

The contractor and the County of Union (hereafter "Owner") do hereby agree that the provisions of Title II of the Americans With Disabilities Act of 1990 (the "Act") (42 U.S.C. S12101 et seq.), which prohibits discrimination on the basis of disability by public entities in all services, programs and activities provided or made available by public entities, and the rules and regulations promulgated pursuant thereunto, are made a part of this contract. In providing any aid, benefit, or service on behalf of the Owner pursuant to this contract, the contractor agrees that the performance shall be in strict compliance with the Act. In the event the contractor, its agents, servants, employees, or subcontractors violate or are alleged to have violated the Act during the performance of this contract, the contractor shall defend the Owner in any action or administrative proceeding commenced pursuant to this Act. The contractor shall indemnify, protect, and save harmless the Owner, its agents, servants, and employees from and against any and all suits, claims, losses, demands, or damages of whatever kind or nature arising out of or claimed to arise out of the alleged violation. The contractor shall, at its own expense, appear, defend, and pay any and all charges for legal services and any and all costs and other expenses arising from such action or administrative proceeding or incurred in connection therewith. In any and all complaints brought pursuant to the Owner's grievance procedure, the contractor agrees to abide by any decision of the Owner which is rendered pursuant to said grievance procedure. If any action or administrative proceeding results in an award of damages against the Owner, or if the Owner incurs any expense to cure a violation of the ADA which has been brought pursuant to its grievance procedure, the contractor shall satisfy and discharge the same at its own expense.

The Owner shall, as soon as practicable after a claim has been made against it, give written notice thereof to the contractor along with full and complete particulars of the claim. If any action or administrative proceeding is brought against the Owner or any of its agents, servants, and employees, the Owner shall expeditiously forward or have forwarded to the contractor every demand, complaint, notice, summons, pleading, or process received by the Owner or its representatives.

It is expressly agreed and understood that any approval by the Owner of the services provided by the contractor pursuant to this contract will not relieve the contractor of the obligation to comply with the Act and to defend, indemnify, protect, and save harmless the Owner pursuant to this paragraph.

It is further agreed and understood that the Owner assumes no obligation to indemnify or save harmless the contractor, its agents, servants, employees and subcontractors for any claim which may arise out of their performance of this Agreement. Furthermore, the contractor expressly understands and agrees that the provisions of this indemnification clause shall in no way limit the contractor's obligations assumed in this Agreement, nor shall they be construed to relieve the contractor from any liability, nor preclude the Owner from taking any other actions available to it under any other provisions of this Agreement or otherwise at law.

Name _____ (Please print or type)

Signature _____ Date _____

Bidders name: _____

STATEMENT OF BIDDER'S QUALIFICATIONS

All questions must be answered and the data given must be clear and comprehensive. This statement must be notarized. Questions may be answered on separate attached sheets. The Bidder may submit any additional information it desires.

1. _____
(Name of Bidder)
2. _____
(Permanent Main Office Address)
3. _____
(When Organized)
4. _____
(If a Corporation, where incorporated)
5. Number of years your organization has been engaged in construction or contracting business under present firm or trade name? _____
6. How many years of experience in construction work has your organization had (a) as a general contractor? And/or (b) As a subcontractor? _____
7. Contracts on hand: (Attach a list or table showing gross amounts of each Contract and the appropriate dates of completion) _____

8. General character of work performed by you. _____

9. Have you ever failed to complete any work awarded to you? _____

10. Have you ever defaulted on a Contract? _____ If so, complete details, including where and why?

STATEMENT OF BIDDER’S QUALIFICATIONS - (continued)

11.

Has any officer or partner of your organization ever failed to complete a construction contract handled in its own name? If so, state name of individual, name of owner, location and type of project, and reason for the failure to complete. _____

12.

List your major equipment available for this Contract.

13.

Experience in the construction work similar in importance to this Project.

14.

Have you had any material adverse changes from the trades as listed in NJ Notice of Classification within last five (5) years? _____. If so, list prior classification.
15.

Background and experience of the principal members of your organization, including the officers.

Individual’s Name	Present Position or Office	Yrs. of Construction Experience	Magnitude & Type of Work	In What Capacity

16.

Bank Reference. (Name, Address, Phone, Representative) _____
17.

Will you, upon request, fill out a detailed financial statement? _____

Bidders name: _____

18. The undersigned, hereby authorizes and requests any person, firm or corporation to furnish any information requested by the proper agency in verification of the responses comprising this Statement of Bidder's Qualifications.

19. Bidder's telephone number, fax number and e-mail address (if applicable).

Phone _____

Fax _____

E-mail _____

Mobile _____

Dated at _____ this _____ day of __, 20__.

BIDDER (Signature)

BIDDER (Print Name)

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/_____
Specify Other State

My Commission Expires _____, 20__.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH
YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

CONTRACTOR PERFORMANCE RECORD

List all contracts completed by you below or provide separate form.

Name of Owner	Name & Location of Project: Type Of Work	Prime or Sub-Cont.	Engineer or Architect in Charge for Owner	Contract Price (Omit Cost)	Date Completed	Was Time* Extension Necessary	Were Any Penalties Imposed	Were Liens* Claims or Stop Notice Filed

* If answer is YES, provide explanation of details in connection with non-completion of contracts, time extensions, penalties imposed, labor troubles, liens, claims and notices filed against contracts listed in preceding item "Performance Record" on an attached sheet.

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL
 MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders name: _____

CONTRACTOR PERFORMANCE RECORD
CERTIFICATION

The information above is true and complete to the best of my knowledge and belief.

(Name of Organization)

(Signature)

(Title)

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/_____
Specify Other State

My Commission Expires _____, 20__.

Bidders name: _____

AFFIDAVIT REGARDING LIST OF DEBARRED, SUSPENDED OR DISQUALIFIED BIDDERS

STATE OF NEW JERSEY / _____)
Specify, if Other) SS:
COUNTY OF _____)

I, _____, of the (City, Town, Borough, etc.) of _____
 _____ State of _____, of full age, being duly sworn according to law on my oath depose and say that:

I am _____ of the firm of _____, the Bidder making the Proposal for the above named Project. I have executed the said Proposal with full authority to do so. Said Bidder is not at the time of the making this bid included on the New Jersey State Treasurer's or the Federal Government's List of Debarred, Suspended or Disqualified Bidders as a result of action taken by any State or Federal Agency.

Name of Contractor

By: _____
(Signature of Authorized Representative)

Subscribed and sworn to before me

this _____ day of _____, 20____.

(Seal) Notary Public of New Jersey/_____
Specify Other State

My Commission Expires _____, 20__.

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

PRIOR NEGATIVE EXPERIENCE QUESTIONNAIRE
(N.J.S.A. 40A:11-4)

1. Within the past ten (10) years, have you been found, through either court adjudication, arbitration, mediation, or other contractually stipulated alternate dispute resolution mechanism, to have: failed to provide or perform goods or services; or failed to complete a contract in a timely manner; or otherwise performed unsatisfactorily under a prior contract with a public entity?

_____ yes _____ no If yes, please provide full, detailed explanation.

2. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to utilize the services of another contractor to provide the goods or perform the services or to correct or complete the contract?

_____ yes _____ no If yes, please provide full, detailed explanation.

3. Within the past ten (10) years, have you defaulted on a contract, thereby requiring a public entity to look to your surety for completion of the contract or tender of the costs of completion?

_____ yes _____ no If yes, please provide full, detailed explanation.

4. Within the past ten (10) years, have you been debarred or suspended from contracting with any of the agencies or department of the executive branch of the State of New Jersey at the time of the contract award, where the action was based on failure to perform a contract for goods or services with a public entity?

_____ yes _____ no If yes, please provide full, detailed explanation.

Bidders name: _____

PRIOR NEGATIVE EXPERIENCE CERTIFICATION

I hereby certify that the above statements are true and accurate as of this _____ day of _____, 20__.

Name of Contractor

By _____
(Signature of Authorized Representative)

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/_____
Specify Other State

My Commission Expires _____, 20__.

NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.

Bidders name: _____

TO BE COMPLETED ONLY WHEN FINAL PAYMENT IS REQUESTED

CONTRACTOR'S CERTIFICATION OF COMPLIANCE - NEW JERSEY PREVAILING WAGE ACT

TO: County of Union
Division of Engineering
2325 South Avenue
Scotch Plains, New Jersey 07076

CONTRACT:

PROJECT:

In accordance with the requirements of the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56 et al *, the undersigned contractor on the public work being performed for:

COUNTY OF UNION

hereby certifies that he/she has complied with the contract requirements regarding the payment of the minimum prevailing wages established under "The New Jersey Prevailing Wage Act" N.J.S.A. 34:11-56 et al.

CONTRACTOR:

ADDRESS:

BY:

ORIGINAL SIGNATURE ONLY

STATE OF NEW JERSEY

COUNTY OF _____

Being by me duly sworn according to law, on his oath deposes
and says that _____ is _____
of _____ the above named contractor, and that
the facts set forth in the above statement are true.

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/_____

Specify Other State

My Commission Expires _____, 20__.

* N.J.S.A. 34:11-56.33 requires the contractor and subcontractor to file written statements with the public body in form satisfactory to the Commissioner certifying to the amounts then due and owing from such contractor and subcontractor filing such statement to any and all workmen for wages due on account of the public work, setting forth therein the names of the persons whose wages are unpaid and the amount due to each respectively. Union County will withhold the amount so deducted for the benefit of the workmen whose wages are unpaid as shown by the verified statement filed, and will pay directly to any workman the amount shown by such statement to be due to him for such wages. Such payment shall thereby discharge the obligation of the contractor to the person receiving such payment to the extent of the amount thereof.

UNCOMPLETED CONTRACTS AFFIDAVIT
(To be Submitted with DPMC Form 701)

PURSUANT TO N.J.A.C. 17:19-2.13, BIDDER DECLARES THE FOLLOWING WITH RESPECT TO ITS UNCOMPLETED CONTRACTS, ON ALL WORK, FROM WHATEVER SOURCE (PUBLIC AND PRIVATE), BOTH IN NEW JERSEY AND FROM OTHER GOVERNMENTAL JURISDICTIONS				
ENTITY	PROJECT TITLE	ORIGINAL CONTRACT AMOUNT	UNCOMPLETED AMOUNT AS OF BID OPENING DATE	NAME AND TELEPHONE NUMBER OF PARTY TO BE CONTACTED FROM ENTITY FOR VERIFICATION

TOTAL AMOUNT OF UNCOMPLETED CONTRACTS \$ _____

BIDDER:

(Signature)

(Print Name)

Subscribed and sworn to before me

this _____ day of _____, 20__.

(Seal) Notary Public of New Jersey/ _____
Specify Other State

My Commission Expires _____, 20__.

NOTE: **FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders name: _____

CERTIFICATE OF INSURANCE STATEMENT

The Bidder fully understands the County of Union insurance requirements as stated in the Instructions to Bidders as well as the Owner/Contractor Agreement and agrees to provide all insurance required by these documents prior to the issuance of the Notice to Proceed.

BIDDER (Signature)

BIDDER (Print Name)

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR
PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders name: _____

COLLECTION OF USE TAX ON SALES TO LOCAL GOVERNMENTS STATEMENT

The Bidder fully understands the requirements of the use tax on sales to local governments as stated in the General Conditions to the Contract for Construction and the Instructions to Bidders, and agrees at all times to comply with the "Contractor Use Tax Collection Legislation", as defined therein, and the terms relating thereto contained in the Contract Documents.

BIDDER (Signature)

BIDDER (Print Name)

**NOTE: FAILURE TO COMPLETE AND SUBMIT THIS DOCUMENT WITH YOUR
PROPOSAL MAY RESULT IN A REJECTION OF YOUR BID.**

Bidders name: _____

TIME OF COMPLETION

The undersigned proposed that if awarded the Contract, the scope of work will be started within ten (10) calendar days and will be substantially completed within 334 **calendar days** from the date of the notice to proceed.

I, _____ of _____
NAME (Print or type) COMPANY

Agree to complete work in the time frame specified _____
SIGNATURE

SITE VISIT – GENERAL CONTRACTOR

I, _____ of _____
NAME (Print or type) COMPANY

Visited the site of the work on _____
SIGNATURE

Bidders name: _____

COUNTY OF UNION NEW JERSEY
Division of Purchasing
DISCLOSURE OF INVESTMENT ACTIVITIES IN IRAN FORM

Solicitation Number: _____ Vendor/Bidder: _____

PART 1

CERTIFICATION

VENDOR/BIDDER MUST COMPLETE PART 1 BY CHECKING ONE OF THE BOXES

FAILURE TO CHECK ONE OF THE BOXES WILL RENDER THE PROPOSAL NON-RESPONSIVE

Pursuant to Public Law 2012, c. 25, any person or entity that submits a bid or proposal or otherwise proposes to enter into or renew a contract must complete the certification below to attest, under penalty of perjury, that neither the person nor entity, nor any of its parents, subsidiaries, or affiliates, is identified on the State of New Jersey, Department of the Treasury's Chapter 25 list as a person or entity engaged in investment activities in Iran. The Chapter 25 list is found on the Department's website at <http://www.nj.gov/treasury/purchase/pdf/Chapter25List.pdf>. Vendors/Bidders **must** review this list prior to completing the below certification. **Failure to complete the certification will render a Vendor's/Bidder's proposal non-responsive.** If the Director of the Division of Purchase and Property finds a person or entity to be in violation of the law, s/he shall take action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

CHECK THE APPROPRIATE BOX

☐ A. I certify, pursuant to Public Law 2012, c.25, that neither the Vendor/Bidder listed above nor any of its parents, subsidiaries, or affiliates is listed on the N.J. Department of Treasury's list of entities determined to be engaged in prohibited activities in Iran pursuant to P.L. 2012, c. 25 ("Chapter 25 List"). Disregard Part 2 and complete and sign the Certification below.

OR

☐ B. I am unable to certify as above because the Vendor/Bidder and/or one or more of its parents, subsidiaries, or affiliates is listed on the Department's Chapter 25 list. I will provide a detailed, accurate and precise description of the activities in Part 2 below and sign and complete the Certification below. Failure to provide such information will result in the proposal being rendered as non-responsive and appropriate penalties, fines and/or sanctions will be assessed as provided by law.

PART 2

PLEASE PROVIDE ADDITIONAL INFORMATION RELATED TO INVESTMENT ACTIVITIES IN IRAN

If you checked Box "B" above, provide a detailed, accurate and precise description of the activities of the Vendor/Bidder, or one of its parents, subsidiaries or affiliates, engaged in investment activities in Iran by completing the information below.

ENTITY NAME: _____
RELATIONSHIP TO VENDOR/BIDDER: _____
DESCRIPTION OF ACTIVITIES: _____
DURATION OF ENGAGEMENT: _____
ANTICIPATED CESSATION DATE: _____
VENDOR/BIDDER CONTACT NAME: _____
VENDOR/BIDDER CONTACT PHONE#: _____
Attach Additional Sheets If Necessary

CERTIFICATION

I, the undersigned, certify that I am authorized to execute this certification on behalf of the Vendor/Bidder, that the foregoing information and any attachments hereto, to the best of my knowledge are true and complete. I acknowledge that the County of Union, New Jersey is relying on the information contained herein, and that the Vendor/Bidder is under a continuing obligation from the date of this certification through the completion of any contract(s) with the County of Union to notify the County of Union in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification. If I do so, I will be subject to criminal prosecution under the law, and it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.

Signature _____

Date _____

Print Name and Title _____



Bidders name: _____

CERTIFICATION OF NON-INVOLVEMENT IN PROHIBITED ACTIVITIES IN RUSSIA OR BELARUS

Pursuant to N.J.S.A. 52:32-60.1, et seq. ([L. 2022, c. 3](#)) any person or entity (hereinafter "Vendor"ⁱ) that seeks to enter into or renew a contract with a State agency for the provision of goods or services, or the purchase of bonds or other obligations, must complete the certification below indicating whether or not the Vendor is identified on the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, available here: <https://sanctionssearch.ofac.treas.gov/>. If the Department of the Treasury finds that a Vendor has made a certification in violation of the law, it shall take any action as may be appropriate and provided by law, rule or contract, including but not limited to, imposing sanctions, seeking compliance, recovering damages, declaring the party in default and seeking debarment or suspension of the party.

I, the undersigned, certify that I have read the definition of "Vendor" below, and have reviewed the Office of Foreign Assets Control (OFAC) Specially Designated Nationals and Blocked Persons list, and having done so certify:

(Check the Appropriate Box)

- ☐ A. That the Vendor is not identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ B. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list on account of activity related to Russia and/or Belarus](#).
- OR**
- ☐ C. That I am unable to certify as to "A" above, because the Vendor is identified on the [OFAC Specially Designated Nationals and Blocked Persons list](#). However, the Vendor is engaged in activity related to Russia and/or Belarus consistent with federal law, regulation, license or exemption. A detailed description of how the Vendor's activity related to Russia and/or Belarus is consistent with federal law is set forth below.

(Attach Additional Sheets If Necessary.)

Signature of Vendor's Authorized Representative	Date
Print Name and Title of Vendor's Authorized Representative	Vendor's FEIN
Vendor's Name	Vendor's Phone Number
Vendor's Address (Street Address)	Vendor's Fax Number
Vendor's Address (City/State/Zip Code)	Vendor's Email Address

ⁱ Vendor means: (1) A natural person, corporation, company, limited partnership, limited liability partnership, limited liability company, business association, sole proprietorship, joint venture, partnership, society, trust, or any other nongovernmental entity, organization, or group; (2) Any governmental entity or instrumentality of a government, including a multilateral development institution, as defined in Section 1701(c)(3) of the International Financial Institutions Act, 22 U.S.C. 262r(c)(3); or (3) Any parent, successor, subunit, direct or indirect subsidiary, or any entity under common ownership or control with, any entity described in paragraph (1) or (2).

STANDARD BID DOCUMENT REFERENCE	
Name of Form:	FEDERAL NON-DEBARMENT CERTIFICATION
Statutory Reference:	N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)
Description:	Meets statutory criteria for certification of non-debarment by a federal government agency.

Summary of the Certification Requirements under N.J.S.A. 52:32-44.1

Pursuant to state law any natural person, company, firm, association, corporation, or other entity prohibited, or “debarred,” from contracting with the federal government agencies, shall also be prohibited from contracting for public work in the state of New Jersey. This prohibition also extends to any affiliate organization(s) held by or subject to the control of an entity of that prohibited person or entity.

Prior to awarding a contract for public work a local units must obtain written certification from the contracting person or entity through the form below, attesting to their non-debarment from contracting with federal government agencies. Contracting units are reminded that they must fill-in the boilerplate information in the certification sections of Parts II through IV regarding their name and type of contracting unit before using the form.

CERTIFICATION OF NON-DEBARMENT
FOR FEDERAL GOVERNMENT CONTRACTS

N.J.S.A. 52:32-44.1 (P.L. 2019, c.406)

This certification shall be completed, certified to, and submitted to the contracting unit prior to contract award, except for emergency contracts where submission is required prior to payment.

PART I: VENDOR INFORMATION	
Individual or Organization Name	
Physical Address of Individual or Organization	
Unique Entity ID (if applicable)	
CAGE/NCAGE Code (if applicable)	
Check the box that represents the type of business organization:	

☐ Sole Proprietorship (skip Parts III and IV) ☐ Non-Profit Corporation (skip Parts III and IV)

☐ For-Profit Corporation (any type) ☐ Limited Liability Company (LLC) ☐ Partnership

☐ Limited Partnership ☐ Limited Liability Partnership (LLP)

☐ Other (be specific): _____

PART II – CERTIFICATION OF NON-DEBARMENT: Individual or Organization			
<p>I hereby certify that the individual or organization listed above in Part I is not debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the County of Union is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the County of Union to notify the County of Union in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.</p>			
Full Name (Print):		Title:	

Signature:		Date:	
PART III – CERTIFICATION OF NON-DEBARMENT: Individual or Entity Owning Greater than 50 Percent of Organization			
Section A (Check the Box that applies)			
<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of its voting stock, or of the partner in the partnership who owns more than 50 percent interest therein, or of the member of the limited liability company owning more than 50 percent interest therein, as the case may be.		
Name of Individual or Organization			
Physical Address			
OR			
<input type="checkbox"/>	No one stockholder in the corporation owns more than 50 percent of its voting stock, or no partner in the partnership owns more than 50 percent interest therein, or no member in the limited liability company owns more than 50 percent interest therein, as the case may be.		
Section B (Skip if no Business entity is listed in Section A above)			
<input type="checkbox"/>	Below is the name and address of the stockholder in the corporation who owns more than 50 percent of the voting stock of the organization's parent entity, or of the partner in the partnership who owns more than 50 percent interest in the organization's parent entity, or of the member of the limited liability company owning more than 50 percent interest in organization's parent entity, as the case may be.		
Stockholder/Partner/Member Owning Greater Than 50 Percent of Parent Entity			
Physical Address			
OR			
<input type="checkbox"/>	No one stockholder in the parent entity corporation owns more than 50 percent of its voting stock, no partner in the parent entity partnership owns more than 50 percent interest therein, or no member in the parent entity limited liability company owns more than 50 percent interest therein, as the case may be.		

Section C – Part III Certification			
Section C – Part III Certification I hereby certify that no individual or organization that is debarred by the federal government from contracting with a federal agency owns greater than 50 percent of the Organization listed above in Part I or, if applicable, owns greater than 50 percent of a parent entity of <name of organization> _____. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the County of Union is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the County of Union to notify the County of Union in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.			
Full Name (Print):		Title:	
Signature:		Date:	

Part IV – CERTIFICATION OF NON-DEBARMENT: Contractor – Controlled Entities	
Section A	
<input type="checkbox"/>	Below is the name and address of the corporation(s) in which the Organization listed in Part I owns more than 50 percent of voting stock, or of the partnership(s) in which the Organization listed in Part I owns more than 50 percent interest therein, or of the limited liability company or companies in which the Organization listed above in Part I owns more than 50 percent interest therein, as the case may be.
Name of Business Entity	Physical Address
Add additional sheets if necessary	
OR	

<input type="checkbox"/>	The Organization listed above in Part I does not own greater than 50 percent of the voting stock in any corporation and does not own greater than 50 percent interest in any partnership or any limited liability company.		
Section B (skip if no business entities are listed in Section A of Part IV)			
<input type="checkbox"/>	Below are the names and addresses of any entities in which an entity listed in Part III A owns greater than 50 percent of the voting stock (corporation) or owns greater than 50 percent interest (partnership or limited liability company).		
Name of Business Entity Controlled by Entity Listed in Section A of Part IV		Physical Address	
Add additional Sheets if necessary			
OR			
<input type="checkbox"/>	No entity listed in Part III A owns greater than 50 percent of the voting stock in any corporation or owns greater than 50 percent interest in any partnership or limited liability company.		
Section C – Part IV Certification			
<p>I hereby certify that the Organization listed above in Part I does not own greater than 50 percent of any entity that that is debarred by the federal government from contracting with a federal agency and, if applicable, does not own greater than 50 percent of any entity that in turns owns greater than 50 percent of any entity debarred by the federal government from contracting with a federal agency. I further acknowledge: that I am authorized to execute this certification on behalf of the above-named organization; that the County of Union is relying on the information contained herein and that I am under a continuing obligation from the date of this certification through the date of contract award by the County of Union to notify the County of Union in writing of any changes to the information contained herein; that I am aware that it is a criminal offense to make a false statement or misrepresentation in this certification, and if I do so, I am subject to criminal prosecution under the law and that it will constitute a material breach of my agreement(s) with the County of Union, permitting the County of Union to declare any contract(s) resulting from this certification void and unenforceable.</p>			
Full Name (Print):		Title:	
Signature:		Date:	

Bidders name: _____

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION
(To be submitted with each bid, proposal or offer exceeding \$100,000)

The undersigned, [Company] _____ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, [Company] _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 et seq., apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Representative

Name and Title of Contractor's Authorized Representative

Date

CERTIFICATION REGARDING LOBBYING

The undersigned certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.

(3) The undersigned shall require that the language of this certification be included in the award documents of all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, United States Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Organization: _____

Street address: _____

City, State, Zip: _____

CERTIFIED BY: (type or print)

TITLE: _____

(signature)

(date)

Bidders name: _____

DISCLOSURE OF LOBBYING ACTIVITIES (LLL Form)

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352 0348-0046

☐

N/A – My agency does not engage in any lobbying activities

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance		2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. Initial award <input type="checkbox"/> c. Post-award		3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____	
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: Congressional District, if known:			5. If Reporting Entity in NO.4 is a Subawardee, enter Name and Address of Prim: Congressional District, if known:		
6. Federal Department/Agency:			7. Federal Program Name/Description: CDFA NUMBER, if applicable _____		
8. Federal Action Number, if known:			9. Award Amount, if known: \$		
10. a. Name and address of Lobbying Registrant (if individual, last name, first name, MI):			b. Individuals Performing Services (including address if different from No. 10a) (las name, first name, MI):		
11. Information request through this form is authorized by title 31 U.S.C. Section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.			Signature: _____ Print Name: _____ Title: _____ Telephone NO.: _____ Date: _____		

Federal Use Only:	Authorized for Local Reproduction Standard Form LLL (Rev. 7-97)
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INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is or expects to be a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number, Invitation for Bid (IFB) number, grant announcement number, the contract, grant, or loan award number, the application/proposal control number assigned by the Federal agency.) Include prefixes, e.g. "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. A) Enter the full name, address, city, state and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.
B) Enter the full names of the individual(s) performing services, and include full address if different from 10(a). Enter last name, first name and middle initial (MI).
11. The certifying official shall sign and date the form; print his/her name, title, and telephone number.

According to the Paperwork Reduction Act, as amended, no persons are required to respond to a collection of information unless it displays a valid OMB Control Number. The valid OMB control number for this information collection is OMB No. 0348-0046. Public reporting burden for this collection of information is estimated to average 10 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-10046), Washington, DC 20503.

STANDARD SPECIFICATIONS

The Standard Specifications for Road and Bridge Construction of New Jersey Department of Transportation, 2019 Edition; is added to and/or amended elsewhere herein by the Notice to Contractors (Advertisement), Proposal, Information for Bidders, General Conditions, Supplemental Conditions, Project Plans, and Supplementary Specifications; shall, insofar as technical requirements are involved, govern in the execution of this project.

Such Standard Specifications are made a part of these Specifications by this reference and will not be repeated herein. It is the responsibility of prospective bidders to familiarize themselves with these Standard Specifications, copies of which may be examined at the office of the Engineer and may be obtained, upon payment of the cost thereof, from:

Department of Transportation
State of New Jersey
1035 Parkway Avenue
Trenton, New Jersey 08625

The Notice to Contractors (Advertisement), Proposal, General Conditions, Special Provisions, Project Plans and/or Supplementary Specifications shall govern and prevail in the case of conflict between them and the Standard Specifications.

In these Standard Specifications the words "COMMISSIONER" or "DEPARTMENT" shall refer to and mean the person, persons, body, board or agent legally empowered to enter into contracts and otherwise legally act for the Owner. The word "STATE" shall refer to and mean the professional engineering representative of the Owner as hereinbefore defined and the word "ENGINEER" shall refer to and mean the professional engineering representative of the Owner as hereinbefore defined and the word "INSPECTOR" shall mean the authorized project representative of the Engineer with the authority as hereinbefore defined. The word "LABORATORY" shall mean and refer to the Engineer who may, at his discretion, and with the consent of the Owner, employ qualified technical personnel or testing laboratories to assist him in fulfilling the duties normally assigned to the "LABORATORY" in these Standard Specifications.

When reference is made herein to the bulletins, standards, specifications, publications or requirements of the American Association of State Highway Officials (AASHTO), the American Concrete Institute (ACI), the American Society of Civil Engineers (ASCE) or similar national or regional societies, associations, institutes or organizations; the requirements of the bulletins, specifications, publications or requirements referred to shall be considered a part of these Specifications by such reference and shall not be repeated herein but shall have the same import and be as binding as if herein set forth in full.



ADVISORY NOTICE TO ALL BIDDERS

Topic: Project Goal Requirements

Federally Funded Contracts: Disadvantaged Business Enterprise (DBE) or Emerging Small Business Enterprise (ESBE) Goals

State Funded Contracts: Small Business Enterprise (SBE) or Disabled Veteran-Owned Business (DVOB) Goals

The following guidance is provided to help ensure a bid is not rejected for being non-responsive and/or not responsible due to Civil Rights Goal Requirements.

All bidders are required to submit a (CR-266) and Forms (CR-273, and applicable CR-272 and/or CR-272), supporting documentation and Good Faith Effort documentation for every contract they bid on that has an established Contract DBE, ESBE, SBE or DVOB goal. It is in the best interest of the New Jersey Department of Transportation/public contracting agency as well as the contracting community.

DBE Goal: Only certified DBEs may be used to satisfy DBE goals.

ESBE Goal: Either certified DBEs or ESBEs may be used to satisfy ESBE goals.

SBE Goal: Only current registered SBEs may be used to satisfy SBE goals.

DVOB Goal: Only current registered DVOBs may be used to satisfy DVOB goals.

NOTE: If the apparent low bidder's commitment fails to meet the established Contract goal and they fail to provide adequate documented evidence of their Good Faith Efforts (GFE), the next lowest responsive and responsible bidder could be awarded the contract.

A project with a DBE, ESBE or SBE requires that **all bidders** at time of bid, or within **five (5) days of bid opening** submit: Forms CR-266, CR-273, CR-272, CR-274 for DBEs, ESBEs or SBEs with supporting documentation, and documented evidence of Good Faith Effort (GFE).

A project with a **DVOB goal** requires that **all bidders** at time of bid, or within **ten (10) days of bid opening** submit: Forms CR-266, CR-273, CR-272, CR-274 for DVOBs with supporting documentation, and documented evidence of Good Faith Effort (GFE).

✓ Be sure to include ALL required forms and documentation as follows:

- Form CR-266 listing each firm that will be used to meet the contract goal; the classification or role the firm will play on the contract; NAICS Codes for the kind and type of work the firm will be performing on the contract; specific contract items, including identification of items where partial work will be performed; dollar value of proposed subcontract. If the Bidder is itself a DBE, ESBE, SBE or DVOB they must list themselves on the CR-266, include the NAICS codes and only the value of work they will self-perform for which they are certified as a DBE, ESBE, SBE or DVOB to perform.
- Form CR-273, for each firm listed on the CR-266. Provide all information requested on the form, including the specific contract items and item descriptions, noting identification of items where partial work is being performed; answers to the questions listed on the form, and proposed dollar value of the work the firm will perform.



- Form CR-272 – for each Regular Dealer/Supplier listed on the CR-266
 - Form CR-274 and required supporting documentation– for each trucker/trucking firm/transportation firm listed on the CR-266.
 - Documented evidence of good faith efforts, when the bidder's commitment fails to meet the goal. This includes copies of bids or quotes from DBEs, ESBEs, SBEs, DVOBs and non-DBEs, non-ESBEs, non-SBEs and non-DVOBs, correspondence with DBEs, ESBEs, SBEs and DVOBs evidence of negotiations,
- ✓ Make sure that all required forms are PROPERLY, ACCURATELY and FULLY COMPLETED and signed. Bidders are not to complete any portion of the CR-273, CR-272 or CR-274 forms, except for Bidder signature, unless they themselves are the prime DBE, prime ESBE, prime SBE, prime DVOB. These forms must be completed and signed by the respective DBE, ESBE, SBE or DVOB. When the bidder is the DBE, ESBE, SBE or DVOB, they cannot count value of work they subcontract out.

Please note that the following, common errors can cause a bid to be rejected:

- Bidder failing to submit a CR-266; submitting a blank CR-266; or failing to sign the CR-266.
- Bidder failing to list themselves, when they are a DBE, ESBE, SBE or DVOB. (Note: They should only list the value of work they will self-perform, and not any work they will subcontract out.)
- Bidder failing to submit a fully completed CR-266, including kind and type of work, contract items and item descriptions each firm listed will perform.
- Identifying SBE and/or ESBE subcontractors on the CR-266 for a Federally funded, DBE goal.
- Bidder failing to submit **COMPLETED** and **SIGNED** CR-273 forms confirming agreement for each firm listed on the CR-266.
- Not verifying and confirming the proper NAICS Code(s) in the NJUCP directory for the classification of work the DBE or ESBE is certified for and committed to perform.
- Failing to identify the correct item numbers, work descriptions, materials to be supplied and NAICS codes on the CR-266 and CR-273; CR-272 and CR-274 for federally funded projects.
- Bidder failing to submit a **COMPLETED** and **SIGNED** CR-272 (Dealer/Supplier Verification) for each dealer/supplier listed on the CR-266.
- Bidder failing to submit a **COMPLETED** and **SIGNED** CR-274 (Trucking Verification) and required supporting documentation for each trucking firm/ trucker/transportation firm listed on the CR-266.
- Item Numbers and Contract Amounts on CR-266 and CR-273 don't correspond or match.
- Bidder completes and signs the CR-273 for the DBE, ESBE, SBE or DVOB subcontractor.
- Firms listed on the CR-266 are not certified as a DBE or are not a SBE or DVOB with current registration.
- Failure to submit documented evidence to support Good Faith Efforts (GFE) when the bidder fails to document enough DBE, ESBE, SBE or DVOB participation to meet the goal.
- Submitting inadequate documentation to support Good Faith Efforts (GFE) when the bidder fails to document enough DBE, ESBE, SBE or DVOB participation to meet the goal.

If you have any questions or need clarification concerning the above forms, please contact NJDOT's Division of Civil Rights/Affirmative Action's Contractor Compliance Unit at 609-963-2047.

New Jersey Prevailing Wage Determination Documents



STATE OF NEW JERSEY
Department of Labor and Workforce Development
Division of Wage and Hour Compliance - Public Contracts Section
PO Box 389
Trenton, NJ 08625-0389

PREVAILING WAGE RATE DETERMINATION

The New Jersey Prevailing Wage Act (N.J.S.A. 34:11-56.25 et seq.) requires that the Department of Labor and Workforce Development establish and enforce a prevailing wage level for workers engaged in public works in order to safeguard their efficiency and general well being and to protect them as well as their employers from the effects of serious and unfair competition.

Prevailing wage rates are wage and fringe benefit rates based on the collective bargaining agreements established for a particular craft or trade in the locality in which the public work is performed. In New Jersey, these rates vary by county and by the type of work performed.

Applicable prevailing wage rates are those wages and fringe benefits in effect on the date the contract is awarded. All pre-determined rate increases listed at the time the contract is awarded must also be paid, beginning on the dates specified. Rates that have expired will remain in effect until new rates are posted.

Prevailing Wage Rate

The prevailing wage rate for each craft will list the effective date of the rate and the following information:

W = Wage Rate per Hour

B = Fringe Benefit Rate per Hour*

T = Total Rate per Hour

- * Fringe benefits are an integral part of the prevailing wage rate. Employers not providing such benefits must pay the fringe benefit amount directly to the employee each payday. Employers providing benefits worth less than the fringe benefit amount must pay the balance directly to the employee each payday.

Unless otherwise stated in the Prevailing Wage Rate Determination, the fringe benefit rate for overtime hours remains at the straight time rate.

When the Overtime Notes in the Prevailing Wage Rate Determination state that the overtime rates are "inclusive of benefits," the benefit rate is increased by the same factor as the wage rate (i.e. multiplied by 1.5 for time and one-half, multiplied by 2 for double time, etc.).

Apprentice Rate Schedule

An "apprentice" is an individual who is registered with the United States Department of Labor - Office of Apprenticeship and enrolled in a certified apprenticeship program during the period in which they are working on the public works project.

The apprentice wage rate is a percentage of the journeyman wage rate, unless otherwise indicated. The apprentice benefit rate is the full journeyman benefit rate, unless otherwise indicated.

If there is no apprentice rate schedule listed, the individual must be paid at least the journeyman rate even if that individual is in a certified apprentice program for that trade.

If there is no ratio of apprentices to journeymen listed for a particular craft, then the ratio shall be one (1) apprentice to every four (4) journeymen.

Comments/Notes

For each craft listed there will be comments/notes that cover the definition of the regular workday, shift differentials, overtime, recognized holidays, and any other relevant information.

Public Works Contractor Registration

The Public Works Contractor Registration Act (N.J.S.A. 34:11-56.48, et seq.) requires that **all** contractors, subcontractors, or lower tier subcontractors who are working on or who bid on public works projects register with the Department of Labor and Workforce Development. Applications are available at www.nj.gov/labor (click on Wage & Hour and then go to Registration & Permits).

Pursuant to N.J.S.A. 34:11-56.51:

No contractor shall bid on any contract for public work as defined in section 2 of P.L.1963, c. 150 (C.34:11-56.26) unless the contractor is registered pursuant to this act. No contractor shall list a subcontractor in a bid proposal for the contract unless the subcontractor is registered pursuant to P.L.1999, c.238 (C.34:11-56.48 et seq.) at the time the bid is made. No contractor or subcontractor, including a subcontractor not listed in the bid proposal, shall engage in the performance of any public work subject to the contract, unless the contractor or subcontractor is registered pursuant to that act.

Snow Plowing

Snow plowing contracts are not subject to the New Jersey Prevailing Wage Act or the Public Works Contractor Registration Act.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Air Conditioning & Refrigeration - Service and Repair

PREVAILING WAGE RATE

	03/01/24
Journeyman (Mechanic)	W45.23 B30.03 T75.26

Craft: Air Conditioning & Refrigeration - Service and Repair

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
As Shown	1st Year	2nd Year	3rd Year	4th Year	5th Year	Wage = %	of Jnymn	Wage		
Wage and Bene	40%	50%	60%	70%	80%	Bene = %	of Jnymn	Bene		

Ratio of Apprentices to Journeymen - 1:4

Craft: Air Conditioning & Refrigeration - Service and Repair

COMMENTS/NOTES

THESE RATES MAY BE USED FOR THE FOLLOWING:

- Service/Repair/Maintenance Work to EXISTING facilities.
- Replacement or Installation of air conditioning and refrigeration equipment when the combined tonnage does not exceed 15 tons for refrigeration, or 25 tons for air conditioning.
- Replacement or Installation of "packaged" or "unitary" rooftop-type units when the combined tonnage of the units does not exceed 75 tons.

NOTE: These rates may NOT be used for any work in new construction (including work on new additions).

The regular workday shall consist of 8 hours, starting between 6:00 AM and 10:00 AM, Monday through Friday.

SHIFT DIFFERENTIALS:

- The second and third shifts shall be paid an additional 15% of the hourly rate.
- All shifts must run for a minimum of 5 consecutive days.

OVERTIME:

Hours worked in excess of 8 per day or before or after the regular workday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Boilermaker

PREVAILING WAGE RATE

	01/12/24
Foreman	W54.11 B47.08 T101.19
General Foreman	W56.11 B48.14 T104.25
Journeyman	W49.11 B45.31 T94.42

Craft: Boilermaker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	65%	70%	75%	80%	85%	90%	95%			
Benefit =	38.33	39.30	40.32	41.31	42.32	43.32	44.30			

Ratio of Apprentices to Journeymen - *

* 1 apprentice will be allowed for the first 5 journeymen, 1 apprentice for the next 10 journeymen and 1 apprentice for each succeeding 20 journeymen up to a maximum of 5 apprentices per contractor on any one job.

Craft: Boilermaker

COMMENTS/NOTES

HIGH WORK: All apprentices working on the erection, repair, or dismantling of smoke stacks, standpipes, or water towers shall be paid the Journeyman rate.

The regular workday shall consist of 8 hours, between 8:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall work 7 1/2 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 10%.
- The third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the regular hourly rate plus 20%.
- For "Municipal Water Works" projects only, the following shall apply: Two, four day, 10 hour shifts may be worked at straight time Monday through Thursday. The day shift shall work four days, at 10 hours, for 10 hours pay. The second shift shall work four days, at nine and a half hours, for 10 hours pay, plus 10% the hourly rate for new work and .25 cents on repair work. Friday may be used as a make-up day at straight time, due to weather conditions, holiday or any other circumstances beyond the employer's control.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.
- If any other craft employed by the same contractor, or a subcontractor thereof, receives double time in lieu of time and one-half, then the Boilermaker shall receive double time in lieu of time and one-half.
- For "Municipal Water Works" projects only, the following shall apply: Four 10 hour days may be worked Monday through Thursday at straight time. Friday may be used as a make-up day for a day lost to inclement weather, holiday or other conditions beyond the control of the employer. Overtime shall be paid for any hours that exceed 10 hours per day or 40 hours per week.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Boilermaker - Minor Repairs

PREVAILING WAGE RATE

	01/12/24
Foreman	W35.88 B17.89 T53.77
General Foreman	W36.38 B17.89 T54.27
Mechanic	W34.38 B17.89 T52.27

Craft: Boilermaker - Minor Repairs

COMMENTS/NOTES

NOTE: These rates apply to MINOR REPAIR WORK ONLY (repair work in the field for which the contract amount does not exceed \$125,000.00), for boilers that do not produce electric or are not used in the heating of petroleum products.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays (except Labor Day) shall be paid at double the hourly rate. All hours on Labor Day shall be paid at four times the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Thanksgiving Day, day after Thanksgiving, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Bricklayer, Stone Mason

PREVAILING WAGE RATE

	05/09/24
Deputy Foreman	W51.60 B37.68 T89.28
Foreman	W56.35 B37.68 T94.03
Journeyman	W48.60 B37.68 T86.28

Craft: Bricklayer, Stone Mason

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%	55%	60%	65%	70%	75%	80%		
Benefits	5.61	6.88	7.50	8.13	28.95	30.86	32.78	34.67		

Ratio of Apprentices to Journeymen - 1:5

Craft: Bricklayer, Stone Mason

COMMENTS/NOTES

The regular workday shall consist of 8 hours, between 6:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the first, or day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10%, inclusive of benefits, and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 10%, inclusive of benefits.

OVERTIME:

- The first 2 hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. The first 10 hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. Any additional overtime shall be paid at double the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday may be used as a make-up day for hours lost to inclement weather.
- When Bricklayers/Stone Masons work on Saturday with Laborers, and no other crafts are working on the project for the day, benefits may be paid at straight time. If other crafts are present, the applicable overtime rate for benefits shall be paid.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Carpenter

PREVAILING WAGE RATE

	05/09/24
Foreman	W64.41 B38.73 T103.14
Journeyman	W56.01 B33.76 T89.77

Craft: Carpenter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	59.25% of	Appren	tice	Wage Rate	for all	intervals	+ \$0.57			

Ratio of Apprentices to Journeymen - 1:3

For Solar installation- all work on solar projects that fall under the jurisdiction of the carpenters, and does not require an electrician, the ratio of Apprentices to Journeymen shall be 1:1.

Craft: Carpenter

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 5-1-19:

INTERVAL PERIOD AND RATES
 Yearly 40% 55% 65% 80%
 Benefits 59.25% of apprentice wage rate for all intervals + \$0.57

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.
- All time worked before and after a regularly established shift shall be paid at the applicable overtime rate. When a portion of the regularly established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.

OVERTIME:

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PREVAILING WAGE RATE DETERMINATION**

County - UNION

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Carpenter - Resilient Flooring

PREVAILING WAGE RATE

	05/01/24
Foreman	W64.41 B38.64 T103.05
Journeyman	W56.01 B33.67 T89.68

Craft: Carpenter - Resilient Flooring

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%	90%					
Benefit	59.25%	of	Appren	tice	Wage Rate	for all	intervals	+ \$0.48		

Ratio of Apprentices to Journeymen - *

* 1 apprentice shall be allowed to every 2 journeymen or major fraction thereof. No more than 3 apprentices on any one job or project.

Craft: Carpenter - Resilient Flooring

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES REGISTERED AS OF 5-1-19:

INTERVAL PERIOD AND RATES

Yearly 40% 55% 65% 80%

Benefits 59.25% of apprentice wage rate for all intervals + \$0.48.

FOREMAN REQUIREMENTS:

- On any job where there are 4 or more Carpenters of Resilient Flooring, 1 must be designated a Foreman.

FOR SYNTHETIC TURF INSTALLATION ONLY:

- The rate shall be 90% of the wage and benefit rate.

The regular workday consists of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift, shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular wage rate plus 10%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular wage rate, the second shift shall receive the regular wage rate plus 10% and the third shift shall receive the regular wage rate plus 15%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular wage rate plus 10% and the third shift shall receive the regular wage rate plus 15%.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

OVERTIME:

- Hours in excess of 8 per day or 40 per week, or before or after the regular workday, Monday through Friday, shall be paid at time and one-half the wage rate. Saturday may be used as a make-up day, at straight time, up to 8 hours, for hours lost to reasons beyond the control of the employer, up to a total of 40 hours per week; hours in excess of 8 on Saturday shall

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

then be paid at time and one-half the wage rate. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the wage rate. All hours on Sundays and holidays shall be paid at double the wage rate.

- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for hours lost to reasons beyond the control of the employer. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the wage rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Carpenter-Residential Construction

PREVAILING WAGE RATE

	05/09/24
Foreman	W54.29 B11.99 T66.28
Journeyman	W47.21 B11.14 T58.35

Craft: Carpenter-Residential Construction

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	40%	55%	65%	80%						
Benefit	12% of	Appren	tice	wage rate	for all	intervals	+ \$5.48			

Ratio of Apprentices to Journeymen - 1:3

Craft: Carpenter-Residential Construction

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Carpenters on a job, 1 shall be designated as a Foreman.
- When there are 21 or more Carpenters on a job, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

RESIDENTIAL CONSTRUCTION:

All residential construction (excluding commercial buildings and institutional housing), no more than four (4) floors in height above grade consisting of those projects involving the construction, alteration, or repair of town houses or row houses, single family homes, mobile homes, multi-family homes, mixed-use buildings that include commercial space on the first floor or below grade, and apartment buildings.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 10%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 10% and the third shift shall receive the regular rate plus 15%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Cement Mason PREVAILING WAGE RATE

See "Bricklayer, Stone Mason" Rates

Craft: Cement Mason APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									

Ratio of Apprentices to Journeymen - 1:4

Craft: Cement Mason COMMENTS/NOTES

See "Bricklayer, Stone Mason" Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Commercial Painter

PREVAILING WAGE RATE

	05/29/24
Foreman	W48.90 B30.71 T79.61
General Foreman	W53.34 B30.71 T84.05
Journeyman	W44.45 B30.71 T75.16

Craft: Commercial Painter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	45%	55%	65%	70%	75%	80%	80%		
Benefits	9.40	9.40	11.90	11.90	13.00	13.00	15.90	15.90		

Ratio of Apprentices to Journeymen - 1:4

Craft: Commercial Painter

COMMENTS/NOTES

* Commercial Painters perform work on all commercial structures such as offices, schools, hotels, shopping malls, restaurants, condominiums, etc.

Spraying, sandblasting, lead abatement work on commercial buildings, work performed above 3 stories or 30 feet in height, or using swing scaffolds requires an additional 10% of the wage rate.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Diver

PREVAILING WAGE RATE

	05/01/24
Diver	W64.72 B52.74 T117.46
Tender	W52.98 B52.74 T105.72

Craft: Diver

COMMENTS/NOTES

NOTE: All dive crews must consist of a Tender, a Diver, and a standby Diver (standby Diver is the same rate as a Diver).

DEPTH & PENETRATION RATES: Divers shall be paid the following depth and penetration rates, in addition to the regular hourly rate, when applicable:

AIR DIVES:

0-59 feet: No additional wage
60-74 feet: + \$0.25 per foot
75-125 feet: + \$0.78 per foot

MIXED GAS DIVES:

0-74 feet: No additional wage
75-125 feet: + \$1.00 per foot
126-200 feet: + \$2.00 per foot

PENETRATION DIVES:

126-200 feet: + \$1.50 per foot
201-275 feet: + \$1.75 per foot
276-350 feet: + \$2.00 per foot
351-425 feet: + \$2.50 per foot

SHIFT DIFFERENTIAL:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis and receive an additional 113% of the wage rate.
- When a three shift schedule is established, all three shifts shall be established on an 8 hour basis, but the second and third shifts shall receive an additional 113% of the wage rate.
- Benefits on shift work shall be paid at the straight-time rate.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Dockbuilder/Pile Driver

PREVAILING WAGE RATE

	05/01/24
Foreman	W60.93 B52.74 T113.67
Foreman (Concrete Form Work)	W59.82 B39.39 T99.21
Journeyman	W52.98 B52.74 T105.72
Journeyman (Concrete Form Work)	W52.02 B39.39 T91.41

Craft: Dockbuilder/Pile Driver

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	21.19	26.49	34.44	42.38						
Benefits	34.70	for all	intervals							

Ratio of Apprentices to Journeymen - *

* When there are 4 or fewer Dockbuilders/Pile Drivers on a job, no more than 1 may be an apprentice. When there are 5 or more Dockbuilders/Pile Drivers, there may be 1 apprentice for every 5 Dockbuilders/Pile Drivers.

Craft: Dockbuilder/Pile Driver

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR CONCRETE FORM WORK ONLY:

INTERVAL	PERIOD AND RATES			
Yearly	20.81	26.01	33.81	41.62
Benefits	26.73	for all	intervals	

CREOSOTE HANDLING:

When handling creosote products on land piling, floating marine construction, and construction of wharves, the worker shall receive an additional \$0.25 per hour.

HAZARDOUS WASTE WORK:

- Hazardous waste removal work on a state or federally designated hazardous waste site where Level A, B, or C personal protection is required: an additional 20% of the hourly rate, per hour.
- Hazardous waste removal work in Level D, or where personal protection is not required: an additional \$1.00 per hour.

CERTIFIED WELDER: When required on the job by the project owner, a Certified Welder shall receive an additional \$1.00 per hour.

FOREMAN REQUIREMENTS:

The first Dockbuilder/Pile Driver on the job shall be designated a Foreman.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

SHIFT DIFFERENTIAL:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis and receive an additional 113% of the wage rate.
- When a three shift schedule is established, all three shifts shall be established on an 8 hour basis, but the second and third shifts shall receive an additional 113% of the wage rate.
- Benefits on shift work shall be paid at the straight-time rate.

OVERTIME:

Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day, Christmas Day. Veterans' Day may be switched with the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Drywall Finisher

PREVAILING WAGE RATE

	05/29/24
Foreman	W47.75 B31.11 T78.86
General Foreman	W49.92 B31.11 T81.03
Journeyman	W43.41 B31.11 T74.52

Craft: Drywall Finisher

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	50%		60%	70%		80%	90%		
Benefits	Intervals	1 to 2 =	11.90	Intervals	3 to 4 =	15.03	Intervals	5 to 6 =	18.84	

Ratio of Apprentices to Journeymen - 1:4

Craft: Drywall Finisher

COMMENTS/NOTES

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician

PREVAILING WAGE RATE

	06/03/24
Cable Splicer	W69.72 B44.96 T114.68
Foreman (11-20 Journeyman)	W74.15 B47.84 T121.99
Foreman (1-3 Journeyman)	W69.72 B44.96 T114.68
Foreman (4-10 Journeyman)	W72.89 B47.02 T119.91
General Foreman (21-30 Journeyman)	W76.06 B49.06 T125.12
General Foreman (31-60 Journeyman)	W82.39 B53.15 T135.54
General Foreman (61+ Journeyman)	W83.66 B53.97 T137.63
Journeyman	W63.38 B40.89 T104.27
Sub-Foreman	W72.25 B46.61 T118.86

Craft: Electrician

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
Yearly	40%	49%	58%	68%	80%		of Jour	neyman	Wage	Rate
Benefit	40%	49%	58%	68%	80%		of Jour	neyman	Benefit	Rate

Ratio of Apprentices to Journeyman - 2:3

Craft: Electrician

COMMENTS/NOTES

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

THESE RATES ALSO APPLY TO THE FOLLOWING:

- All burglar and fire alarm work.
- All fiber optic work.
- Teledata work in new construction.
- Teledata work involving 16 Voice/Data Lines or more.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- 1 to 3 Journeymen- 1 must be a Foreman (Foreman/1-3 Journeymen rate).
- 4 to 10 Journeymen- 1 must be a Foreman (Foreman/4-10 Journeymen rate).
- 11 to 20 Journeymen- 1 must be Foreman (Foreman/11-20 Journeymen rate) and 1 must be a Sub-Foreman.
- 21 to 30 Journeymen- 1 must be a General Foreman (General Foreman/21-30 Journeymen rate) and 2 must be a Sub-Foreman.
- 31 to 40 Journeymen- 1 must be a General Foreman (General Foreman/31-40 Journeymen rate) and 3 must be a Sub-Foreman.
- 41 to 50 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 4 must be a Sub-Foreman.
- 51 to 60 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 5 must be a Sub-Foreman.
- 61+ Journeymen- 1 must be a General Foreman (General Foreman/61+ Journeymen rate) and 6 must be a Sub-Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

PREVAILING WAGE RATE

	12/02/24
Journeyman Technician (1-2 Workers on Job)	W48.21 B28.45 T76.66
Master Tech/General Foreman (26 + Workers on Job)	W62.67 B36.99 T99.66
Senior Technician/Lead Foreman (16-25 Workers on Job)	W57.37 B33.86 T91.23
Technician A/Foreman (9-15 Workers on Job)	W54.96 B32.43 T87.39
Technician B/Working Foreman (4-8 Workers on Job)	W52.55 B31.01 T83.56
Technician C/Foreman (3 Workers on Job)	W50.14 B29.59 T79.73

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.45	7.45	8.51	9.15	10.22	11.49	12.98	14.26	15.76	17.24

Ratio of Apprentices to Journeymen - 2:3

Craft: Electrician - Teledata (15 Voice/Data Lines & Less)

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 11-28-22:

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.67	7.67	8.76	9.43	10.52	11.84	13.38	14.69	16.22	17.76

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 12-4-23:

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	7.88	7.88	9.00	9.68	10.80	12.15	13.73	15.09	16.66	18.23

APPRENTICE RATE SCHEDULE FOR THOSE APPRENTICES ENTERING PROGRAM AFTER 12-2-24:

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

INTERVAL	PERIOD AND RATES									
6 Months	35%	35%	40%	43%	48%	54%	61%	67%	74%	81%
Benefits	8.07	8.07	9.22	9.91	11.07	12.45	14.06	15.44	17.06	18.68

NOTES:

- These rates are for service, maintenance, moves, and/or changes affecting 15 Voice/Data (teledata) lines or less. These rates may NOT be used for any teledata work in new construction (including additions) or any fiber optic work.
- The number of Teledata workers on the jobsite is the determining factor for which Foreman category applies .

The regular workday shall be 8 hours, between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM) shall receive 8 hours pay for 7.5 hours work + an additional 10% of the regular rate, per hour, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM) shall receive 8 hours pay for 7 hours work + an additional 15% of the regular rate, per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 10 on Saturday and all hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.

- Four 10-hour days may be worked Monday through Friday, between the hours of 7:00 AM and 5:30 PM. A make-up day may be used for a day not being worked during the four 10-hour day schedule if a holiday occurs during the week or for any other conditions that prevent an employee from working the four 10-hour day schedule.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Saturday holidays will be observed the preceding Friday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Electrician - Teledata (16 Instruments & More)	PREVAILING WAGE RATE
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See "Electrician" Rates

Craft: Electrician - Teledata (16 Instruments & More)	COMMENTS/NOTES
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See ELECTRICIAN Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician- Outside Commercial

PREVAILING WAGE RATE

	06/03/24
Cable Splicer	W70.04 B44.66 T114.70
Certified Welder	W66.86 B42.62 T109.48
Equipment Operator	W63.67 B40.60 T104.27
Foreman (11-20 Journeymen workers on job)	W74.50 B47.50 T122.00
Foreman (1-3 Journeymen workers on job)	W70.04 B44.66 T114.70
Foreman (4-10 Journeymen workers on job)	W73.23 B46.70 T119.93
General Foreman (21-30 Journeymen workers on job)	W76.41 B48.71 T125.12
General Foreman (31-60 Journeymen workers on job)	W82.78 B52.76 T135.54
General Foreman (61+ Journeymen workers on job)	W84.05 B53.58 T137.63
Groundman	W38.21 B24.35 T62.56
Journeyman Lineman/Technician	W63.67 B40.60 T104.27
Sub-Foreman	W72.59 B46.27 T118.86

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Electrician- Outside Commercial

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	61.75% of	Journey	man	wage	+ \$.01					

Craft: Electrician- Outside Commercial

COMMENTS/NOTES

APPRENTICE RATE SCHEDULE AS OF 5-29-23:

Interval	Period and Rates									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	62.75% of the Journeyman wage + \$.01									

APPRENTICE RATE SCHEDULE AS OF 6-3-24:

Interval	Period and Rates									
1000 Hours	60%	65%	70%	75%	80%	85%	90%			
Benefits	63.75% of the Journeyman wage + \$.01									

* FOR UTILITY WORK PLEASE SEE STATEWIDE RATES

The regular worday shall be 8 hours, between 8:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- 1 to 3 Journeymen- 1 must be a Foreman (Foreman/1-3 Journeymen rate).
- 4 to 10 Journeymen- 1 must be a Foreman (Foreman/4-10 Journeymen rate).
- 11 to 20 Journeymen- 1 must be Foreman (Foreman/11-20 Journeymen rate) and 1 must be a Sub-Foreman.
- 21 to 30 Journeymen- 1 must be a General Foreman (General Foreman/21-30 Journeymen rate) and 2 must be a Sub-Foreman.
- 31 to 40 Journeymen- 1 must be a General Foreman (General Foreman/31-40 Journeymen rate) and 3 must be a Sub-Foreman.
- 41 to 50 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 4 must be a Sub-Foreman.
- 51 to 60 Journeymen- 1 must be a General Foreman (General Foreman/31-60 Journeymen rate) and 5 must be a Sub-Foreman.
- 61+ Journeymen- 1 must be a General Foreman (General Foreman/61+ Journeymen rate) and 6 must be a Sub-Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- 2nd Shift (4:30 PM to 12:30 AM): 8 hrs. pay for 7.5 hrs. work + an additional 10% of the regular rate, inclusive of benefits.
- 3rd Shift (12:30 AM to 8:00 AM): 8 hrs. pay for 7 hrs. work + an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:

Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, and all hours on Saturdays, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS:

New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day,

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Thanksgiving Day and Christmas Day.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Electrician-Utility Work (North) PREVAILING WAGE RATE

Rates are located in the "Statewide" rate package

Craft: Electrician-Utility Work (North) APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
* 6 Months	60%	65%	70%	75%	80%	85%	90%			
Benefits	69% of	Appren	tice	Wage	Rate	for all	intervals			

Craft: Electrician-Utility Work (North) COMMENTS/NOTES

Electrician-Utility Work (North) rates are located in the "Statewide" rate package.

* The apprentice wage rate is paid at the percentage of the Journeyman Lineman wage rate located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Elevator Constructor

PREVAILING WAGE RATE

	03/29/23
Journeyman	W77.49 B45.23 T122.72

Craft: Elevator Constructor

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	34.60	42.62	50.37	58.12						
Benefits	35.56	36.49	38.02	39.55						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Constructor

COMMENTS/NOTES

The regular workday shall consist of either 7 or 8 hours to be established at the beginning of the project, between 7:00 AM and 4:30 PM.

OVERTIME:

For all hours worked before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday, shall be paid at double the hourly rate. Holiday pay is one days wages (8 hours) plus double the hourly rate for all hours worked.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Elevator Modernization & Service

PREVAILING WAGE RATE

	03/29/23
Journeyman	W60.89 B44.07 T104.96

Craft: Elevator Modernization & Service

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	34.60	33.49	39.58	45.67						
Benefits	35.50	36.07	37.52	38.97						

Ratio of Apprentices to Journeymen - 1:1

Craft: Elevator Modernization & Service

COMMENTS/NOTES

MODERNIZATION (addition, replacement, refurbishing, relocation, or changes in design or appearance, of elevator equipment in existing buildings):

- The regular workday consists of 8 hours, between 7:00 AM and 4:30 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday and Sunday shall be paid at time and one-half the hourly rate. Holiday pay is one days wages (8 hours) plus time and one-half the hourly rate for all hours worked.

SERVICE (repair or replacement of parts for the purpose of maintaining elevator equipment in good operating condition):

- The regular workday consists of 8 hours, between 6:00 AM and 6:00 PM.

- Overtime:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS (Modernization and Service): New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays shall be observed on the previous Friday and Sunday holidays shall be observed on the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Glazier PREVAILING WAGE RATE

	05/09/24
* Leadman	W53.43 B31.98 T85.41
Foreman	W55.43 B32.22 T87.65
General Foreman	W57.43 B32.47 T89.90
Journeyman	W51.43 B31.74 T83.17

Craft: Glazier APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	46%	46%	55%	55%	61%	61%	70%	70%		
Benefits	12.44	12.44	14.76	14.76	18.16	18.16	19.79	19.79		

Ratio of Apprentices to Journeymen - 1:4

Craft: Glazier COMMENTS/NOTES

Hazard/Height Pay: +\$1.00 per hour

* When there are three (3) men working on a jobsite for three (3) days or longer, 1 Journeyman may be designated as a Leadman for the duration of the job, provided he has his OSHA certification.

FOREMAN REQUIREMENTS:

- When there are 4 or more Glaziers on a job, 1 must be designated a Foreman.
- When there are 15 or more Glaziers on a job, 1 must be designated a General Foreman.

The regular workday shall consist of 8 hours, between 7:00 AM and 5:30 PM, Monday to Friday.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.
- When 3 shifts are worked, the second shift shall receive 8 hours pay for 7.5 hours of work, and the third shift shall receive 8 hours pay for 7 hours of work.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Heat & Frost Insulator

PREVAILING WAGE RATE

	09/25/24
Foreman	W61.97 B39.22 T101.19
General Foreman	W64.31 B40.33 T104.64
Journeyman	W59.44 B38.66 T98.10

Craft: Heat & Frost Insulator

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	27.89	33.09	39.84	46.51						
Benefits	22.35	26.53	29.50	32.61						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator

COMMENTS/NOTES

NOTE: These rates apply to the installing of insulation on hot and cold mechanical systems.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

SHIFT DIFFERENTIAL:

- Shift work must run for a minimum of 5 consecutive workdays.
- Second Shift shall work 7.5 hours and receive 8 hours pay, at the regular rate, plus 25% per hour.
- Third Shift shall work 7 hours and receive 8 hours pay, at the regular rate, plus 30% per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Heat & Frost Insulator - Asbestos Worker

PREVAILING WAGE RATE

	09/25/24
Asbestos Helper Abatement	W36.89 B24.92 T61.81

Craft: Heat & Frost Insulator - Asbestos Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	HEAT &	FROST	INSULAT OR						

Ratio of Apprentices to Journeymen - 1:3

Craft: Heat & Frost Insulator - Asbestos Worker

COMMENTS/NOTES

NOTE: These rates apply only to the removal of insulation materials/asbestos from mechanical systems, including containment erection and demolition, and placing material in appropriate containers.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM. In addition, the regular workday may also be 8 hours between 6:00 AM and 2:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- The second shift shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 25% per hour.
- The third shift shall work 7 hours and receive 8 hours pay at the regular rate, plus 30% per hour.

OVERTIME: The first 2 hours in excess of 8 per day, hours outside of the regular workday Monday through Friday that are not shift work, and the first 10 hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours in excess of 10 per day, and all hours on Sunday and holidays (except Labor Day) shall be paid at double the regular rate, inclusive of benefits. All hours on Labor Day shall be paid at triple the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Presidential Election Day, Thanksgiving Day and Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Industrial Painter- Bridges

PREVAILING WAGE RATE

	03/21/24	02/01/25	02/01/26
Foreman	W64.29 B35.91 T100.20	W0.00 B0.00 T102.20	W0.00 B0.00 T104.20
General Foreman	W66.79 B35.91 T102.70	W0.00 B0.00 T104.70	W0.00 B0.00 T106.70
Journeyman	W59.29 B35.91 T95.20	W0.00 B0.00 T97.20	W0.00 B0.00 T99.20

Craft: Industrial Painter- Bridges

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	70%	90%							
Benefits	14.10	21.26	27.88							

Ratio of Apprentices to Journeymen - 1:3

Craft: Industrial Painter- Bridges

COMMENTS/NOTES

* Industrial Painters perform work on all industrial structures, such as bridges.

These rates apply to: All bridges that span waterways, roadways, railways and canyons. All tunnels, overpasses, viaducts and all appurtenances.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used as a make-up day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Industrial Painter- Structural Steel

PREVAILING WAGE RATE

	03/21/24	02/01/25	02/01/26
Foreman	W53.03 B33.56 T86.59	W0.00 B0.00 T88.59	W0.00 B0.00 T90.59
General Foreman	W55.53 B33.56 T89.09	W0.00 B0.00 T91.09	W0.00 B0.00 T93.09
Journeyman	W48.03 B33.56 T81.59	W0.00 B0.00 T83.59	W0.00 B0.00 T85.59

Craft: Industrial Painter- Structural Steel

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	INDUST	RIAL	PAINTER	BRIDGES					

Ratio of Apprentices to Journeymen - 1:3

Craft: Industrial Painter- Structural Steel

COMMENTS/NOTES

* Industrial Painters perform work on all industrial structures, such as water tanks, waste water facilities, refineries, any structural steel work, etc.

These rates apply to: All work in power plants (any aspect). On steeples, on dams, on hangers, transformers, substations, on all open steel, in refineries, tank farms, water/sewerage treatment facilities and on pipelines.

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except for Veterans Day, which shall be paid at time and one-half the regular rate.
- During the regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Industrial Painter- Water Tanks

PREVAILING WAGE RATE

	03/21/24	02/01/25	02/01/26
Foreman	W54.08 B33.21 T87.29	W0.00 B0.00 T89.29	W0.00 B0.00 T91.29
General Foreman	W56.58 B33.21 T89.79	W0.00 B0.00 T91.79	W0.00 B0.00 T93.79
Journeyman	W49.08 B33.21 T82.29	W0.00 B0.00 T84.29	W0.00 B0.00 T86.29

Craft: Industrial Painter- Water Tanks

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	50%	70%	90%							
Benefits	14.10	21.26	27.88							

Ratio of Apprentices to Journeymen - 1:3

Craft: Industrial Painter- Water Tanks

COMMENTS/NOTES

* Industrial Painters perform work on all industrial structures, such as water tanks, waste water facilities, refineries, any structural steel work, etc.

These rates apply to: All new and repaint water tanks (interior and exterior).

FOREMEN REQUIREMENTS:

- When there are 4 or more Painters on a job, 1 shall be designated a Foreman.
- When there are 15 or more Painters on a job, 1 shall be designated a General Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays and Sundays shall be paid at time and one-half the regular rate. All hours on holidays shall be paid at double the regular rate, except Veterans Day, which shall be paid at time and one-half the regular rate.
- During a regular work week schedule, Saturday may be used to make-up a day lost to inclement weather, paid at the regular rate.
- Four 10-hour days may be worked, at the regular rate, Monday through Thursday. When the four 10-hour day schedule is used, the 11th and 12th hours shall be paid at time and one-half the regular rate. After the 12th hour, a worker shall be paid at double the regular rate. Friday may be used as a make-up day lost to inclement weather, paid at the regular rate.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Saturday holiday observed the preceding Friday. Sunday holiday observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Ironworker

PREVAILING WAGE RATE

	07/03/24
Rod /Fence Foreman	W53.29 B50.87 T104.16
Rod/Fence Journeyman	W48.44 B50.87 T99.31
Structural Foreman	W55.82 B50.87 T106.69
Structural Journeyman	W50.74 B50.87 T101.61

Craft: Ironworker

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	50%	60%		Yearly	70%	80%	90%			
Benefits	same as	journeyma n	amount							

Ratio of Apprentices to Journeymen - 1:4

Craft: Ironworker

COMMENTS/NOTES

HAZARDOUS WASTE WORK: On hazardous waste removal work on a state or federally designated hazardous waste site where the Ironworker is required to wear Level A,B, or C personal protection: + \$3.00 per hour

The regular workday consists of 8 hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

When there are 2 or more Ironworkers on a job, 1 shall be designated a Foreman.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule is established, the first, or day shift , shall be established on an 8 hour basis .The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15%, and the third shift shall receive the regular rate plus 20%.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis.
- When an irregular shift is established for the Ironworker (Structural) classification, the rate shall be paid at time and one-half the regular rate, inclusive of benefits. When an irregular shift is established for the Rod/Fence classification, the shift shall be established on an 8 hour basis and receive the regular rate, plus 20%.

OVERTIME:

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the hourly rate, inclusive of benefits. Saturday may be used as a make-up day for a day lost to inclement weather. If Saturday is not a make-up day, all hours on Saturday shall be paid at time and one-half the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer - Asbestos & Hazardous Waste Removal

PREVAILING WAGE RATE

	08/21/24
Foreman	W45.88 B26.21 T72.09
Journeyman (Handler)	W40.78 B26.21 T66.99

Craft: Laborer - Asbestos & Hazardous Waste Removal

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	22.47	28.55	32.62	36.70						
Benefits	22.31	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Asbestos & Hazardous Waste Removal

COMMENTS/NOTES

NOTE: These rates apply to work in connection with Asbestos, Radiation, Hazardous Waste, Lead, Chemical, Biological, Mold Remediation and Abatement.

The regular workday shall be 8 hours.

OVERTIME:

- Hours in excess of 8 per day, Monday through Saturday, and all hours on Sunday and holidays shall be paid at time and one-half the regular rate.
- Benefits on ALL overtime hours shall be paid at straight time.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Easter, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. (Holidays start at 12:00 am).

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer - Building

PREVAILING WAGE RATE

	08/28/24
Class A Journeyman	W39.25 B33.17 T72.42
Class B Journeyman	W38.25 B33.17 T71.42
Class C Journeyman	W32.51 B33.17 T65.68
Foreman	W44.16 B33.17 T77.33
General Foreman	W49.06 B33.17 T82.23

Craft: Laborer - Building

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
6 Months	60%	70%	80%	90%	of Class B	wage rate				
Benefit	29.92	29.92	29.92	29.92						

Ratio of Apprentices to Journeymen - *

* Ratio of apprentices to journeymen shall not be more than one apprentice for the first journeyman and no more than (1) apprentice for each additional three (3) journeymen.

Craft: Laborer - Building

COMMENTS/NOTES

CLASS A: Specialist laborer including mason tender or concrete pour crew; scaffold builder (scaffolds up to 14 feet in height); operator of forklifts, Bobcats (or equivalent machinery), jack hammers, tampers, motorized tampers and compactors, vibrators, street cleaning machines, hydro demolition equipment, riding motor buggies, conveyors, burners; and nozzlemen on gunite work.

CLASS B: Basic laborer - includes all laborer work not listed in Class A or Class C.

CLASS C: Janitorial-type light clean-up work associated with the TURNOVER of a project, or part of a project, to the owner. All other clean-up work is Class B.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 5 consecutive workdays.
- When a 2-shift schedule is worked, including a day shift, both shifts shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%.
- When a 3-shift schedule is worked, the day shift shall be established on the basis of 8 hours pay for 8 hours worked, the second shift shall be established on the basis of 8 hours pay for 7.5 hours worked, and the third shift shall be established

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

on the basis of 8 hours pay for 7 hours worked. The day shift shall receive the regular rate, the second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When a second or third shift is worked with no day shift, the second or third shift shall be established on the basis of 8 hours pay for 8 hours worked. The second shift shall receive the regular rate plus an additional 10%, and the third shift shall receive the regular rate plus an additional 15%.

- When an irregular shift must be established this shift shall receive the regular rate plus an additional 10%.

OVERTIME:

- Hours in excess of 8 per day, or outside the regular workday that are not shift work, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. Saturday may be used as a make-up day (paid at straight time) for a day lost to inclement weather, or for a holiday that is observed during the work week, Monday through Friday. All hours on Sundays and holidays shall be paid at double the regular rate.

- Four 10-hour days may be worked Monday to Thursday, at straight time, with Friday used a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the regular rate.

- Benefits on ALL overtime hours shall be paid at time and one-half.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Laborer - Heavy & General PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Laborer - Heavy & General APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours	60%	70%	80%	90%						
Benefit	25.08	for	all	intervals						

Ratio of Apprentices to Journeymen - *

* No more than 1 apprentice for the first journeyman and no more than 1 apprentice for each additional 3 journeymen.

As of 3-1-25, benefits shall be 26.13.
As of 3-1-26, benefits shall be 27.13.

Craft: Laborer - Heavy & General COMMENTS/NOTES

Heavy & General Laborer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Laborer-Residential and Modular Construction

PREVAILING WAGE RATE

	04/01/23
* Skilled Tradesman (only applies to Modular Construction)	W27.90 B5.45 T33.35
Foreman (person directing crew, regardless of his skill classification)	W31.90 B5.45 T37.35
Laborer (for single family and stand-alone duplex owned by single owner)	W17.85 B2.95 T20.80
Residential and Modular Construction Laborer	W23.90 B5.45 T29.35

Craft: Laborer-Residential and Modular Construction

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									
As shown	800 hours	600 hours	600 hours							
wage & benefits	70%	80%	90%							

Ratio of Apprentices to Journeymen-

One (1) apprentice shall be allowed for the first journeyman on site and no more than one (1) additional apprentice for each additional three (3) journeymen on site.

Craft: Laborer-Residential and Modular Construction

COMMENTS/NOTES

*** SKILLED TRADESMAN-**

any worker doing work not typically done by a Building Laborer. Some examples are installing interior doors, sheet rock, hooking up appliances, installing light fixtures, installing railing systems, etc. Please note where local building codes require that certain work be performed under the supervision of a licensed tradesman (i.e. Plumber, Electrician, etc.) Laborers shall work under such supervision.

RESIDENTIAL CONSTRUCTION- All residential construction (not commercial), single-family, stand-alone duplex houses, townhouses and multi-family buildings of not more than four (4) floors. Each housing unit must be fully and independently functional; each housing unit must have its own kitchen and bathroom. The definition includes all incidental items such as site work, parking areas, utilities, streets and sidewalks. Please note the construction must be Residential in nature. A First Floor at or below grade may contain commercial space not to exceed 50% square footage of the floor; at least 50% of the First Floor must contain living accommodations or related nonresidential uses (e.g. laundry space, recreation/hobby rooms, and/or corridor space). Basement stories below grade used for storage, parking, mechanical systems/equipment, etc., are considered basement stories which are not used in determining the building's height. An attic is an unfinished space located immediately below the roof. Such space is not used in determining a building's height even if used for storage purposes. In addition, barracks and dormitories are not considered residential projects.

MODULAR RESIDENTIAL CONSTRUCTION- all aspects of modular residential construction (not commercial) at the site of installation of structures of no more than four (4) stories, including all excavation and site preparation, footings and

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

foundation systems whether poured on-site or prefabricated, all underground waterproofing, underground utilities, concrete slabs, sidewalks, driveways, paving, hardscape and landscaping. Please note the construction must be Residential as defined above. All work performed by the Set Crew (the crew of workers who set the modular boxes on the foundation), including the rigging, setting, attaching and assembly of all modules and structural members, preparation of the foundation to accept modules, such as sill plates, connection of all in-module and under-module connections including, but not limited to, plumbing, electrical, HVAC, fire suppression, CATS, telephone, television/internet, and fiber optic, the building or installation of any porches or decks regardless of material or method of construction, the on-site installation of, or completion of any roof system, doors, windows and fenestrations, including flashing, gutter and soffit systems, waterproofing, insulation and interior and exterior trim work, and painting. Please note that modular construction does not include on-site stick built construction, tip up construction or panel built construction.

The regular workday shall be 8 hours between 6:00 AM and 6:00 PM.

OVERTIME:

Hours worked in excess of 8 per day/40 per week, Monday through Saturday, and all hours worked on Sunday and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOILDAYS:

New Year's Day, Martin Luther King Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day and Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Millwright

PREVAILING WAGE RATE

	05/01/24
Foreman	W66.04 B39.75 T105.79
Journeyman	W57.43 B34.65 T92.08

Craft: Millwright

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	40%	55%	65%	80%	90%					
Benefits	59.25% of	Appren	tice	Wage	Rate	for all	intervals	+ \$0.62		

Ratio of Apprentices to Journeymen - 1:3

Craft: Millwright

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Millwrights on a job, 1 shall be designated as a Foreman.

The regular workday shall consist of 8 hours, starting between 6:00 AM and 9:00 AM.

SHIFT DIFFERENTIALS:

- When a 2 shift schedule (including a day shift) is established, the day shift shall be established on an 8 hour basis. The second shift shall be established on an 8 hour basis, and receive the regular rate plus 15%, inclusive of benefits.
- When a three shift schedule is established, the first shift shall be established on an 8 hour basis, the second shift on a 7.5 hour basis, and the third shift on a 7 hour basis. The first shift shall receive the regular hourly rate, the second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When there is no day shift, and a second or third shift is established, it shall be established on an 8 hour basis. The second shift shall receive the regular rate plus 15% and the third shift shall receive the regular rate plus 20%, inclusive of benefits.
- When an irregular shift must be established, this shift shall receive the regular rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after an established shift that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. Veterans' Day may be substituted for the day after Thanksgiving.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Operating Engineer PREVAILING WAGE RATE

Rates are located in the
"Statewide" rate package

Craft: Operating Engineer APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	60%	70%	80%	90%						

Ratio of Apprentices to Journeymen - *

* 1 apprentice for each piece of heavy equipment. At least 10 pieces of heavy equipment or a minimum of 5 Operating Engineers must be on site.

Craft: Operating Engineer COMMENTS/NOTES

Operating Engineer rates are located in the "Statewide" rate package.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Painter - Line Striping

PREVAILING WAGE RATE

	12/03/24
Apprentice (1st year)	W31.33 B16.18 T47.51
Apprentice (2nd year)	W35.74 B27.13 T62.87
Foreman (Charge Person)	W45.12 B27.91 T73.03
Journeyman 1 (at least 1 year of working exp. as a journeyman)	W40.35 B27.91 T68.26
Journeyman 2 (at least 2 years of working exp. as a journeyman)	W44.12 B27.91 T72.03

Craft: Painter - Line Striping

APPRENTICE RATE SCHEDULE

<u>INTERVAL</u>	<u>PERIOD AND RATES</u>									

Ratio of Apprentices to Journeymen - 1:1

Craft: Painter - Line Striping

COMMENTS/NOTES

OVERTIME:

Hours in excess of 8 per day, Monday through Saturday, and all hours on Sundays and holidays shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day and Christmas Day. Veterans Day may be substituted for the day after Thanksgiving.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Paperhanger

PREVAILING WAGE RATE

	05/29/24
Foreman	W53.79 B30.71 T84.50
Journeyman	W48.90 B30.71 T79.61

Craft: Paperhanger

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
	SEE	COMME R	CIAL	PAINTER						

Craft: Paperhanger

COMMENTS/NOTES

FOREMEN REQUIREMENTS:

- When there are 4 or more Paperhangers on a job, 1 shall be designated a Foreman.

The regular workday shall consist of 8 hours between 7:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- The second shift shall receive an additional 10% of the hourly rate, per hour, and the third shift shall receive an additional 15% of the hourly rate, per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.
- Saturday or Sunday may be used to make up a day lost to inclement weather, at straight time.
- Four 10-hour days may be worked, at straight time, Monday through Friday.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day, July 4th, Labor Day, General Election Day, Veterans Day, Thanksgiving Day, Christmas Day

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Pipefitter

PREVAILING WAGE RATE

	05/01/24
Foreman	W59.34 B52.02 T111.36
Journeyman	W55.09 B48.30 T103.39

Craft: Pipefitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	35%	45%	55%	65%	75%					
Benefit	27.62	30.78	33.95	37.12	40.29					

Ratio of Apprentices to Journeymen - 1:5

Craft: Pipefitter

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Journeyman Pipefitters on a job, 1 shall be designated a Foreman.
- There shall be a Foreman for every 8 Journeyman Pipefitters on a job.

The regular workday shall be 8 hours between 7:00 AM and 3:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

OVERTIME:

- All hours worked in excess of 8 per day, Monday through Friday, and all hours worked on Saturday, shall be paid at time and one-half, inclusive of benefits. All hours on Sunday and holidays shall be paid at double time, inclusive of benefits.
- By mutual agreement, employees may work four 10-hour days, Monday to Thursday, at straight time rate. Friday may be used as a make-up day for a day lost to inclement weather, and may be paid at straight time. If Friday is not a make-up day, the first 8 hours shall be paid at time and one-half, inclusive of benefits; hours in excess of 8 shall be paid at double time, inclusive of benefits.

SHIFT DIFFERENTIAL (Maintenance Work Only):

- 2nd Shift (3:30 PM-11:30 PM) shall work 7.5 hours and receive 8 hours pay at the regular rate, plus 10% per hour on the total rate.
- 3rd Shift (11:30 PM-7:00 AM) shall work 7 hours and receive 8 hours pay at the regular rate, plus 15% per hour on the total rate.

OVERTIME (Maintenance Work Only):

- All hours in excess of 8 per day, Monday through Saturday, shall be paid at time and one-half, inclusive of benefits. All

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

hours on Sundays and holidays shall be paid at double time, inclusive of benefits.

NOTE: Maintenance work is work to repair, restore, or improve the efficiency of existing facilities. This does NOT apply to ANY new construction.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays are observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Plasterer

PREVAILING WAGE RATE

See Bricklayer, Stone Mason Rates

Craft: Plasterer

COMMENTS/NOTES

See BRICKLAYER, STONE MASON Rates

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Plumber

PREVAILING WAGE RATE

	05/01/24
Foreman	W65.33 B43.22 T108.55
General Foreman	W69.56 B43.22 T112.78
Journeyman	W60.49 B43.22 T103.71

Craft: Plumber

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	30%	45%	55%	65%	75%					
Benefits	18.23	24.72	27.02	29.31	31.60					

Ratio of Apprentices to Journeymen - *

* Employers may employ 1 apprentice on any job where 1 or 2 journeymen are employed. Thereafter, 1 apprentice may be employed for every 4 journeymen.

Craft: Plumber

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- On any job having 2 or more Plumbers, 1 must be designated a Foreman.
- On any job having 9 or more Plumbers, 2 shall be designated as Foremen.

The regular workday shall consist of 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must continue for a minimum of 5 consecutive workdays.
- When two shifts are worked, the second shift shall work 7.5 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 10%, inclusive of benefits.
- When a third shift is worked, the third shift shall work 7 hours and receive 8 hours pay, at a rate equal to the hourly rate plus 15%, inclusive of benefits.

OVERTIME:

- All hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday, shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays, shall be paid at double the hourly rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday to Thursday, at straight time. Friday may be used as a make-up day for a day lost due to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Roofer

PREVAILING WAGE RATE

	06/01/24
Foreman	W47.52 B32.34 T79.86
Journeyman	W44.52 B32.34 T76.86

Craft: Roofer

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
6 Months	17.80	22.26	26.71	28.94	31.16	33.39	35.62	40.07		
Benefits	2.19	2.19	28.34	28.34	28.34	28.34	28.34	28.34		

Ratio of Apprentices to Journeymen - *

- * A) For roofing jobs that are of the 1 or single ply nature: 1:2 or fraction thereof
- B) For roofing jobs on new built up roofs: 1:3 or fraction thereof
- C) For roofing jobs that are of a tear-off nature: 1:2 or fraction thereof
- D) For roofing jobs {not requiring complete removal of existing systems, installation done over existing roof}: 1:3 or fraction thereof

Craft: Roofer

COMMENTS/NOTES

Pitch: +.50 per hour

Mop Man: +.30 per hour

The regular workday consists of 8 hours between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays, Sundays, and holidays shall be paid at time and one-half the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sheet Metal Sign Installation

PREVAILING WAGE RATE

	04/17/24
Foreman	W44.19 B43.87 T88.06
Journeyman	W41.69 B43.87 T85.56

Craft: Sheet Metal Sign Installation

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 hours	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%
Benefits	14.62	16.66	18.72	20.79	23.33	25.43	27.52	29.62	31.73	33.82

Ratio of Apprentices to Journeymen - 1:3

Craft: Sheet Metal Sign Installation

COMMENTS/NOTES

FOREMAN REQUIREMENT:

When there are 6 or more Sheet Metal Sign Installers on a job, 1 shall be designated a Foreman.

The regular workday consists of 8 hours, between 7:00 AM and 3:30 PM.

OVERTIME:

Hours before or after the regular workday, Monday through Friday, and all hours worked on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

Four(4) 10 hour days may be worked, Monday through Friday, at straight time, for projects lasting at least one week in duration. The fifth day may be used as a make-up day at straight time for a day lost due to inclement weather. However, if the fifth day is not a make-up day, all hours worked will be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Saturday holidays observed the preceding Friday, Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sheet Metal Worker

PREVAILING WAGE RATE

	06/13/24
Foreman	W61.90 B50.32 T112.22
General Foreman	W62.90 B50.32 T113.22
Journeyman	W57.90 B50.32 T108.22

Craft: Sheet Metal Worker

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
Yearly	45%	48%	52%	65%	of	Journey	man	Wage	Rate	
Benefit	45%	48%	52%	65%	of	Journey	man	Benefit	Rate	

Ratio of Apprentices to Journeymen - 1:4

Craft: Sheet Metal Worker

COMMENTS/NOTES

FOREMAN REQUIREMENTS:

- When there are 2 or more Sheet Metal Workers on a project, 1 must be designated a Foreman.
- When there are 17 or more Sheet Metal Workers on a project, 1 must be designated a General Foreman.
- When there is only 1 Sheet Metal Worker (1 Journeyman) on a project, he/she shall receive \$1.00 more than the regular Journeyman's rate.

The regular workday is 8 hours between 7:00 AM and 4:30 PM.

SHIFT DIFFERENTIAL:

- 2nd Shift (3:30 PM - 12:00 AM) : +17% of regular hourly rate
- Shift work must run for a minimum of 5 consecutive workdays.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, that are not shift work, and the first 10 hours on Saturdays shall be paid at time and one-half of the regular rate, inclusive of benefits. Hours in excess of 10 per day on Saturday, and all hours on Sundays and holidays shall be at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Friday, at straight time, with hours in excess of 10 per day, and hours in excess of 40 per week paid at the overtime rates listed above.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Sprinkler Fitter

PREVAILING WAGE RATE

	01/01/25
Foreman	W72.47 B40.30 T112.77
General Foreman	W76.12 B40.30 T116.42
Journeyman	W67.97 B40.30 T108.27

Craft: Sprinkler Fitter

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1000 Hours									80%	85%
Benefits							Intervals	9 to 10	Jourymn	Ben.

Craft: Sprinkler Fitter

COMMENTS/NOTES

Apprentice rate schedule for those apprentices registered as of 7-1-13:

Interval Period and Rates
1000 Hrs. 25% 30% 40% 45% 55% 60% 70% 75% 85% 90%
Ben. 14.90 14.90 31.30 31.30 31.30 31.30 Intervals 7-10 Journey. Ben.

Apprentice rate schedule for those apprentices registered as of 7-1-22:

Interval Period and Rates
1000 Hrs. 30% 35% 40% 45% 50% 55% 60% 70% 85% 95%
Ben. 14.90 14.90 31.30 31.30 31.30 31.30 Intervals 7-10 Journey. Ben.

The regular workday consists of 8 consecutive hours between 6:00 AM and 4:30 PM.

FOREMAN REQUIREMENTS:

- The first Sprinkler Fitter on the job must be designated a Foreman.
- On any job having 12 or more Sprinkler Fitters, one must be designated a General Foreman.

SHIFT DIFFERENTIALS:

- Shift work must run for a minimum of 2 consecutive workdays.
- 2nd and 3rd shift shall receive an additional 15% of the regular rate, per hour.
- Any "off hours" shift starting at 8:00 PM or later shall receive an additional 25% of the regular rate, per hour.

OVERTIME:

The first 2 hours in excess of 8 per day, after the regular workday that are not shift work, Monday through Friday, shall be paid at time and one-half the regular rate. Hours worked in excess of 10 per day, Monday through Friday, and all hours on Saturday, Sunday and holidays, shall be paid double the regular rate.
Four 10 hour days may be worked, Monday through Friday, at straight-time.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Finisher-Marble

PREVAILING WAGE RATE

	01/08/25
Finisher	W50.22 B37.84 T88.06

Craft: Tile Finisher-Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	40%	60%	65%	70%	75%	85%	95%			
Benefits	Interval 1	thru 5 =	75% of	jyrnm. ben	rate	Interval 6	thru 7 =	full jyrnm	benefit	rate

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Finisher-Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Ceramic

PREVAILING WAGE RATE

	12/03/24
Finisher	W49.21 B33.44 T82.65
Setter	W64.16 B36.72 T100.88

Craft: Tile Setter - Ceramic

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	35%	40%	50%	55%	60%	65%	70%	75%	80%	90%

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Ceramic

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, and the first 10 hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Saturdays after 10 hours shall be paid double the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Marble

PREVAILING WAGE RATE

	01/08/25
Tile Setter	W64.21 B40.66 T104.87

Craft: Tile Setter - Marble

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
750 Hours	40%	60%	65%	70%	75%	85%	95%			
Benefits	Interval 1	thru 5 =	75% of	jyrm. ben	rate	Interval 6	thru 7 =	full jyrm	benefit	rate

Ratio of Apprentices to Journeymen - 1:4

Craft: Tile Setter - Marble

COMMENTS/NOTES

OVERTIME:

Hours in excess of 7 per day, Monday through Friday, and the first 7 hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. Hours in excess of 7 on Saturdays, and all hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Tile Setter - Mosaic & Terrazzo

PREVAILING WAGE RATE

	01/01/25
Grinder or Assistant	W59.72 B42.19 T101.91
Mechanic	W61.33 B42.20 T103.53
Terrazzo Resinous Worker	W51.02 B34.49 T85.51

Craft: Tile Setter - Mosaic & Terrazzo

APPRENTICE RATE SCHEDULE

INTERVAL	PERIOD AND RATES									
1500 Hours	35%	45%	60%	70%	80%	90%				

Ratio of Apprentices to Journeymen - 1:5

Craft: Tile Setter - Mosaic & Terrazzo

COMMENTS/NOTES

The regular workday consists of 7 hours, between 8:00 AM and 3:30 PM.

OVERTIME:

- Hours in excess of 7 per day, or before or after the regular workday, Monday through Friday, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Good Friday, Monday after Easter, Memorial Day, July 4th, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day and the day after, Christmas Day. Sunday holidays observed the following Monday.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Truck Driver

PREVAILING WAGE RATE

	05/01/24
Bucket, Utility, Pick-up, Fuel Delivery trucks	W45.41 B43.28 T88.69
Dump truck, Asphalt Distributor, Tack Spreader	W45.41 B43.28 T88.69
Euclid-type vehicles (large, off-road equipment)	W45.51 B43.28 T88.79
Helper on Asphalt Distributor truck	W45.41 B43.28 T88.69
Low Boy Driver	W47.01 B43.28 T90.29
Slurry Seal, Seeding/Fertilizing/ Mulching truck	W45.41 B43.28 T88.69
Straight 3-axle truck	W45.41 B43.28 T88.69
Tractor Trailer (all types)	W45.51 B43.28 T88.79
Vacuum or Vac-All truck (entire unit)	W45.41 B43.28 T88.69
Winch Trailer	W45.61 B43.28 T88.89

Craft: Truck Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate" which shall be 80% of the above-listed wage rates, plus the full benefit rate. This rate shall be used when the driver "round robins" for a minimum of 6 hours during the work day.

HAZARDOUS WASTE REMOVAL:

- On hazardous waste removal work on a State designated hazardous waste site where the driver is in direct contact with hazardous materials and when personal protective equipment is required for respiratory, skin, and eye protection, the driver shall receive an additional \$3.00 per hour (with or without protective gear).
- A hazardous waste related certified worker at a designated hazardous waste site who is not working in a zone requiring level A, B or C personal protection shall receive an additional \$1.00 per hour.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

TRUCK FOREMAN: \$.75 cents per hour above regular rate. Overtime shall be increased accordingly.

The regular workday shall be 8 hours, starting between 6:00 AM and 8:00 AM.

SHIFT DIFFERENTIAL:

- Shifts starting at 4:00 PM (2nd Shift): + \$3.00 per hour.
- Shifts starting at 12:00 AM (midnight/3rd Shift): time and one-half the hourly rate.
- Shifts starting at a time other than from 6:00 AM to 8:00 AM, when such hours are mandated by the project owner: + \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday, Monday through Friday, that are not shift work, and all hours on Saturdays shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Employees may work four 10-hour days at straight time, Monday through Thursday, with Friday used as a make-up day for a lost day. If Friday is not a make-up day, then all hours on Friday shall be paid at time and one-half the hourly rate.
- Benefits on overtime shall be \$43.03.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veteran's Day.

**NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION**

County - UNION

Craft: Truck Driver-Material Delivery Driver

PREVAILING WAGE RATE

	05/01/24
Driver	W37.62 B43.28 T80.90

Craft: Truck Driver-Material Delivery Driver

COMMENTS/NOTES

BLENDED RATE:

When a truck driver is performing work on the site and also serving as a material delivery driver, the driver shall be paid a "blended rate". See the "Truck Driver" craft for the blended rates.

Truck Foreman/Shop Steward: +\$0.25 per hour

SHIFT DIFFERENTIALS:

- 2nd Shift shall receive an additional \$0.50 per hour
- 3rd Shift shall receive time and one-half the hourly rate.

OVERTIME:

- Hours in excess of 8 per day, or before or after the regular workday that are not shift work, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the hourly rate. All hours on Sunday and holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, President's Day, Memorial Day (Decoration Day), July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays will be observed the following Monday. The day after Thanksgiving may be substituted for Veterans Day.

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

County - UNION

Craft: Welder PREVAILING WAGE RATE

Welder

Craft: Welder COMMENTS/NOTES

Welders rate is the same as the craft to which the welding is incidental .

STATEWIDE RATES

OPERATING ENGINEERS **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for * tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- * FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
58.88	39.15	98.03	100.53

CLASSIFICATIONS:

A-Frame

Backhoe (combination)

Boom Attachment on loaders (Except pipehook)

Boring & Drilling Machine

Brush Chopper, Brush Shredder, Tree Shredder, Tree Shearer

Bulldozer, finish grade

Cableway

Carryall

Concrete Pump

Concrete Pumping System (Pumpcrete & similar types)

Conveyor, 125 feet or longer

Drill Doctor (Duties include dust collector and maintenance)

Front End Loader (2 cu. yds. but less than 5 cu. yds.)

Grader, finish

Groove Cutting Machine (ride-on type)

Heater Planer

Hoist: Outside Material Tower Hoist (all types including steam, gas, diesel, electric, air hydraulic, single and double drum, concrete, brick shaft caisson, snorkle roof, and other similar types, Except Chicago-boom type) * receives an additional \$1.00 per hour on 100 ft. up to 199 ft. total height, and an additional \$2.00 per hour on 200 ft. and over total height.

Hydraulic Crane (10 tons & under)

Hydraulic Dredge

Hydro-Axe

Hydro-Blaster

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
58.88	39.15	98.03	100.53

CLASSIFICATIONS:

Jack (screw, air hydraulic, power-operated unit, or console type, Except hand jack or pile load test type)

Log Skidder

Pan

Paver, concrete

Plate & Frame Filter Press

Pumpcrete (unit type)

Pumpcrete, Squeezecrete, or Concrete Pumping machine (regardless of size)

Scraper

Side Boom

Straddle Carrier (Ross and similar types)

Whiphammer

Winch Truck (hoisting)

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

- Asphalt Curbing Machine
- Asphalt Plant Engineer
- Asphalt Spreader
- Autograde Curb Trimmer & Sidewalk Shoulder Slipform (CMI & similar types)
- Autograde Curecrete Machine (CMI & similar types)
- Autograde Tube Finisher & Texturing Machine (CMI & similar types)
- Bar Bending Machines (Power)
- Batcher, Batching Plant, & Crusher [On Site]
- Belt Conveyor System
- Boom-Type Skimmer Machine
- Bridge Deck Finisher
- Bulldozer (all sizes)
- Captain (Power Boats)
- Car Dumper (railroad)
- Compressor & Blower unit for loading/unloading of concrete, cement, fly ash, or similar type materials (used independently or truck-mounted)
- Compressor (2 or 3 battery)
- Concrete Breaking Machine
- Concrete Cleaning/Decontamination Machine
- Concrete Finishing Machine
- Concrete Saw or Cutter (ride-on type)
- Concrete Spreader (Hetzl, Rexomatic & similar types)
- Concrete Vibrator

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

Conveyors - under 125 feet

Crane Signalman

Crushing Machine

Directional Boring Machine

Ditching Machine - Small (Ditchwitch, Vermeer or similar types)

Dope Pot - Mechanical (with or without pump)

Dumpster

Elevator

Fireman

Fork Lift (Economobile, Lull & similar types)

Front End Loader (1 cu. yd. and over but less than 2 cu. yds.)

Generator (2 or 3 battery)

Giraffe Grinder

Goldhofer/Hydraulic Jacking Trailer

Grader & Motor Patrols

Grout Pump

Gunnite Machine (Excluding nozzle)

Hammer - Vibratory (in conjunction with generator)

Heavy Equipment Robotics - Operator/Technician

Hoist (roof, tugger, aerial platform hoist, house car)

Hopper

Hopper Doors (power operated)

Ladder (motorized)

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

- Laddervator
- Locomotive (Dinky-type)
- Maintenance Utility Man
- Master Environmental Maintenance Technician
- Mechanic
- Mixer (Except paving mixers)
- Pavement Breaker (truck-mounted or small self-propelled ride-on type)
- Pavement Breaker - maintenance of compressor or hydraulic unit
- Pipe Bending Machine (power)
- Pitch Pump
- Plaster Pump (regardless of size)
- Post Hole Digger (post pounder, auger)
- Rod Bending Machines
- Roller (black top)
- Scale (power)
- Seamen Pulverizing Mixer
- Shoulder Widener
- Silo
- Skimmer Machine (boom type)
- Steel Cutting Machine (service & maintenance)
- Tamrock Drill
- Tractor
- Transfer Machines

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
56.97	39.15	96.12	98.62

CLASSIFICATIONS:

Tug Captains

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System -
Operator/Maintenance Technician

Vacuum Blasting Machine - Operator/Maintenance Technician

Vibrating Plant (used with unloading)

Welder & Repair Mechanic

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
51.63	39.15	90.78	93.28

CLASSIFICATIONS:

Assistant Engineer/Oiler

Driller's Helper

Field Engineer - Transit man or Instrument man

Maintenance Apprentice (Deckhand)

Maintenance Apprentice (Oiler)

Mechanic's Helper

Off Road Back Dump

Tire Repair & Maintenance

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
49.05	39.15	88.20	90.70

CLASSIFICATIONS:

Field Engineer - Rodman or Chainman

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.21	39.15	98.36	100.86

CLASSIFICATIONS:

Lead Engineer, Foreman Engineer, Safety Engineer (minimum)

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

CLASSIFICATIONS:

- Autograde Pavement Profiler (CMI & similar types)
- Autograde Pavement Profiler - Recycle Type (CMI & similar types)
- Autograde Placer/Trimmer/Spreader Combination (CMI & similar types)
- Autograde Slipform Paver (CMI & similar types)
- Backhoe (Excavator)
- Central Power Plant
- Concrete Paving Machine
- Cranes, Derricks, Pile Drivers (all types), under 100 tons with a boom (including jib and/or leads) under 100 ft.
- Draglines
- Drill, Bauer, AMI and similar types
- Drillmaster, Quarrymaster
- Drillmaster/Quarrymaster (down-the-hole drill), rotary drill, self-propelled hydraulic drill, self-powered drill
- Elevator Grader
- Field Engineer-Chief of Party
- Front End Loader (5 cu. yards or larger)
- Gradall
- Grader, Rago
- Helicopter Co-Pilot
- Helicopter Communications Engineer
- Juntann Pile Driver
- Locomotive (large)
- Mucking Machine

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

CLASSIFICATIONS:

- Pavement & Concrete Breaker (Superhammer & Hoe Ram)
- Pile Driver
- Prentice Truck
- Roadway Surface Grinder
- Scooper (loader & shovel)
- Shovel (Excavator)
- Trackhoe (Excavator)
- Tree Chopper with boom
- Trenching Machine (cable plow)
- Tunnel Boring Machine
- Vacuum Truck

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.34	39.15	94.49	96.99

CLASSIFICATIONS:

- Chipper
- Compressor (single)
- Concrete Spreader (small type)
- Conveyor Loader (Except elevator graders)
- Engines, Large Diesel (1620 HP) & Staging Pump
- Farm Tractor
- Fertilizing Equipment (operation & maintenance)
- Fine Grade Machine (small type)
- Form Line Grader (small type)
- Front End Loader (under 1 cubic yard)
- Generator (single)
- Grease, Gas, Fuel, & Oil Supply Trucks
- Heaters (Nelson or other type)
- Lights - portable generating light plant
- Mixer, Concrete (small)
- Mulching Equipment (operation & maintenance)
- Power Broom or Sweeper
- Pump (diesel engine & hydraulic - regardless of power)
- Pump (larger than 2 inch suction, including submersible pumps)
- Road Finishing Machine (small type)
- Roller - grade, fill, or stone base
- Seeding Equipment (operation & maintenance)
- Sprinkler & Water Pump Trucks

OPERATING ENGINEERS **Rates Expiration Date :**

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.34	39.15	94.49	96.99

CLASSIFICATIONS:

Steam Generator or Boiler

Stone Spreader

Tamping Machine (vibrating ride-on type)

Temporary Heating Plant (Nelson or other type, including
proprane, natural gas, and flow-type units)

Water or Sprinkler Truck

Welding Machine (gas, diesel, or electric convertor, of any type)

Welding System - Multiple (rectifier transformer type)

Wellpoint Systems (including installation by bull gang and
maintenance)

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.29	39.15	101.44	103.94

CLASSIFICATIONS:

Helicopter Pilot/Engineer

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
66.97	39.15	106.12	108.62

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) 140 ft. and over

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
65.97	39.15	105.12	107.62

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with boom (including jib and/or leads) from 100 ft. to
139 ft.

OPERATING ENGINEERS

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.47	39.15	101.62	104.12

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types) , under 100 tons with a boom (including jib and/or leads) 140 ft. and over

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.97	39.15	104.12	106.62

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), 100 tons and over and TOWER CRANE with a boom (including jib and/or leads) under 100 ft.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
61.47	39.15	100.62	103.12

CLASSIFICATIONS:

Cranes, Derricks, Pile Driver (all types), under 100 tons with a boom (including jib and/or leads) from 100 ft. to 139 ft.

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

{For apprentice rates refer to "Operating Engineers" apprentice rates in any county rate package}

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for * tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- * FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.10	39.15	103.25	105.75

CLASSIFICATIONS:

Helicopter Co-Pilot & Communications Engineer

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.04	39.15	99.19	101.69

CLASSIFICATIONS:

- A-Frame
- Cherry Picker -10 tons or less (Over 10 tons use crane rate)
- Hoist (all types Except Chicago-boom)
- Jack (screw, air hydraulic, power-operated unit or console type, Except hand jack or pile load test type)
- Side Boom
- Straddle Carrier

STRUCTURAL STEEL ERECTION **Rates Expiration Date :**

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
57.38	39.15	96.53	99.03

CLASSIFICATIONS:

Aerial Platform Used On Hoists

Apprentice Engineer/Oiler with Compressor or Welding Machine

Captain (Power Boats)

Compressor (2 or 3 in battery)

Concrete Cleaning/Decontamination Machine Operator

Conveyor or Tugger Hoist

Directional Boring Machine

Elevator or House Car

Fireman

Forklift

Generator (2 or 3)

Heavy Equipment Robotics, Operator/Technician

Maintenance Utility Man

Master Environmental Maintenance Technician

Tug Master (Power Boats)

Ultra High Pressure Waterjet Cutting Tool System Operator/Maintenance Technician

Vacuum Blasting Machine Operator/Maintenance Technician

Welding Machines, Gas or Electric Converters on any type-2 or 3 in battery including diesels

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
55.85	39.15	95.00	97.50

CLASSIFICATIONS:

- Compressor (Single)
- Generators
- Welding Machines, Gas, Diesel, Or Electric Converters of any type-single
- Welding System, Multiple (Rectifier Transformer Type)

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
52.09	39.15	91.24	93.74

CLASSIFICATIONS:

- Assistant Engineer/Oiler
- Drillers Helper
- Field Engineer - Transit/Instrument Man
- Maintenance Apprentice (Deckhand)
- Maintenance Apprentice (Oiler)
- Off Road Back Dump

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.66	39.15	98.81	101.31

CLASSIFICATIONS:

- Lead Engineer, Foreman Engineer, Safety Engineer (Minimum)

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
49.05	39.15	88.20	90.70

CLASSIFICATIONS:

- Field Engineer - Rodman or Chainman

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.80	39.15	99.95	102.45

CLASSIFICATIONS:

Field Engineer-Chief of Party

Vacuum Truck

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
68.99	39.15	108.14	110.64

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms, including jib, 140 ft. and over, above ground). Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), and Pile Drivers (all types) 100 tons and over and Tower Cranes.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
67.33	39.15	106.48	108.98

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), 100 tons and over and Tower Crane.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.49	39.15	103.64	106.14

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, 140 ft. and over, above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, 140 ft. and over, above ground), Pile Drivers (all types), under 100 tons.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
62.83	39.15	101.98	104.48

CLASSIFICATIONS:

Cranes (all cranes, land or floating with booms including jib, less than 140 ft. above ground), Derricks (all derricks, land, floating or Chicago Boom type with booms including jib, less than 140 ft. above ground), Pile Drivers (all types), under 100 tons.

STRUCTURAL STEEL ERECTION

Rates Expiration Date :

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
64.49	39.15	103.64	106.14

CLASSIFICATIONS:

Helicopter Pilot & Engineer

TEST BORING PRELIMINARY TO CONSTRUCTION-SOUTH/WEST **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Hunterdon, Mercer, Monmouth, Ocean, Salem, Sussex, Warren

The regular workday consists of 8 hours, Monday to Friday, between 6:00 AM and 5:30 PM.

SHIFT DIFFERENTIALS:

- Shift work must be established for 5 consecutive workdays.
- Any work started outside of the allowed start time, 6:00 AM to 9:00 AM, except for * tidal work, shall be considered an irregular shift and paid at straight time, plus 15% for the first eight hours, inclusive of benefits.
- * FOR TIDAL WORK- a contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work), providing the eight hour shift is completed between the hours of 5:00 AM and 6:30 PM.
- All time worked in excess of an established shift (an established shift is a shift that is determined at the time of the bid) shall be paid at the applicable overtime rate. When a portion of an established shift works into Saturday, Sunday or a holiday, that time worked shall be paid at the established shift rate.
- When working with other trades who receive a higher irregular shift differential, these employees shall also receive the higher differential rate.

OVERTIME:

- Hours in excess of 8 per day, or outside of the regular workday, Monday through Friday, that are not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sunday and holidays shall be paid at double the regular rate, inclusive of benefits.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with all hours on Friday paid at time and one-half the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. When all trades on a particular job site agree, the day after Thanksgiving may be substituted for Veterans Day.

For projects bid after April 1, 2020, on hazardous waste removal work of any kind, including a state or federally designated site, where the operating engineer is required to wear level A, B, or C personal protection, the operating engineer shall receive an hourly wage rate of his regular hourly wage plus \$5.00 per hour.

- An operating engineer working at a hazardous waste removal project or site at a task requiring hazardous waste related certification, but who is not working in a zone requiring level A, B, or C personal protection, shall receive an hourly wage rate of his regular rate plus \$1.00 per hour.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
60.47	39.15	99.62	102.12

CLASSIFICATIONS:

Driller

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
53.63	39.15	92.78	95.28

CLASSIFICATIONS:

Driller's Helper

FREE AIR TUNNEL JOBS

Rates Expiration Date :

{For apprentice rates refer to "Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

- SHIFT DIFFERENTIALS:
- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
 - When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
 - Shifts shall receive an additional \$3.00 per hour.

- OVERTIME:
- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
 - Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

- Hazardous Waste Work:
- where Level A, B, or C protection is required: + \$5.00/hr
 - other Hazardous Waste site: + \$1.00/hr

Traffic Control Coordinator: When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
65.06	37.33	102.39	106.26	109.94

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.69	37.33	102.02	105.88	109.57

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrician Foreman, Rigging Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS **Rates Expiration Date :**

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
64.06	37.33	101.39	105.26	108.94

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Cleanup Foreman, Grout Foreman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
67.19	37.33	104.52	108.38	112.07

CLASSIFICATIONS:

Blaster

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
63.38	37.33	100.71	104.57	108.26

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.94	37.33	100.27	104.13	107.82

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Manitenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Tod Man)

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.75	37.33	100.08	103.94	107.63

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man Top or Bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

FREE AIR TUNNEL JOBS Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
62.25	37.33	99.58	103.44	107.13

CLASSIFICATIONS:

All Others (including Powder Watchman, Change House Attendant, Top Laborer)

DRILL FOR GROUND WATER SUPPLY

Rates Expiration Date :

The well driller and/or helper may perform all work relative to the construction, finishing, and servicing of wells, pumps and borings for ground water supply. The present methods of well drilling entailing as they do, many diverse job operations calling for drilling, pump discharge, piping, and the operation of various types of related power equipment, shall all be within the job duties and functions of the well driller and/or helper. In the event that an extension of work should occur beyond water well drilling functions, into the field of general construction work, such extension of work would come under the appropriate rates listed elsewhere in this wage determination.

- For Work Hours, Shift Differentials, Overtime Rates, and Recognized Holidays see the "Operating Engineers" section of this wage determination.

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
59.22	39.15	98.37	100.87

CLASSIFICATIONS:

Driller

Effective Dates:

07/01/2024			07/01/2025
Rate	Fringe	Total	Total
52.38	39.15	91.53	94.03

CLASSIFICATIONS:

Driller's Helper

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date :**

NOTE: These wage rates only apply to dredging and other marine construction activities occurring in navigable waters and their tributaries.

Boat crews carrying explosive material (dynamite, pourfex, and other similar materials) shall be paid at 120% of the hourly wage rate for hours engaged in handling of said materials. Employees required to possess a Hazardous Material Certification as a condition of employment shall be compensated at 120% of the hourly wage rate.

OVERTIME:

Hours in excess of 40 per week, and all hours on Saturdays and Sundays, shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Martin Luther King Day, Good Friday, Memorial Day, July 4th, Labor Day, Veterans Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
47.07	15.34	62.41	63.92	65.74

CLASSIFICATIONS:

Lead Dredgerman, Operator, Leverman

Licensed Tug Operator with MOTV, Deck Captain

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
40.71	14.90	55.61	56.92	58.47

CLASSIFICATIONS:

Derrick Operator, Spider/Spill Barge Operator

Engineer, Electrician, Chief Welder, Chief Mate

Fill Placer, Operator II

Licensed Boat Operator

Maintenance Engineer

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
38.31	14.73	53.04	54.27	55.75

CLASSIFICATIONS:

Certified Welder

OPERATING ENGINEERS MARINE-DREDGING **Rates Expiration Date :**

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
37.26	14.66	51.92	53.12	54.54

CLASSIFICATIONS:

Mate, Drag Barge Operator, Steward, Assistant Fill Placer

Welder

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
36.07	14.57	50.64	51.80	53.18

CLASSIFICATIONS:

Boat Operator

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
29.96	14.15	44.11	45.07	46.22

CLASSIFICATIONS:

Shoreman, Deckhand, Rodman, Scowman

Effective Dates:

10/03/2024			10/01/2025	10/01/2026
Rate	Fringe	Total	Total	Total
41.94	14.99	56.93	58.27	59.89

CLASSIFICATIONS:

Crane Operator

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem
IN ALL OTHER COUNTIES use the Heavy and General Laborers - North "Slurry Seal Laborer" rates.

SHIFT DIFFERENTIALS:

Any shift starting at 3:30 PM or later shall receive an additional \$0.35/hr

OVERTIME:

Hours in excess of 8 per day or 40 per week shall be paid at time and one-half the hourly rate. All hours on holidays shall be paid at double the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Washington's Birthday, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day.

Effective Dates:

03/01/2017

Rate	Fringe	Total
36.50	21.27	57.77

CLASSIFICATIONS:

Foreman

Effective Dates:

03/01/2017

Rate	Fringe	Total
33.80	21.27	55.07

CLASSIFICATIONS:

Box man

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Microsurface/Slurry Preparation

Effective Dates:

03/01/2017

Rate	Fringe	Total
31.75	21.27	53.02

CLASSIFICATIONS:

Squeegee man

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

MICROSURFACING/SLURRY SEAL Rates Expiration Date :

Effective Dates:

03/01/2017

Rate	Fringe	Total
30.30	21.27	51.57

CLASSIFICATIONS:

Cleaner, Taper

ASPHALT LABORERS - SOUTH

Rates Expiration Date :

"THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

Paving Foreman

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.10	37.33	87.43	90.88	94.13

CLASSIFICATIONS:

Head Raker

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

Screedman

ASPHALT LABORERS - SOUTH

Rates Expiration Date :

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.70	37.33	87.03	90.48	93.73

CLASSIFICATIONS:

Tampers, Smoothers, Kettlemen,
Painters, Shovelers, Roller Boys

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.80	37.33	87.13	90.58	93.83

CLASSIFICATIONS:

Milling Controller

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

Traffic Control Coordinator

Effective Dates:

03/21/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.95	37.33	87.28	90.73	93.98

CLASSIFICATIONS:

Raker, Luteman

Effective Dates:

Rate	Fringe	Total
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CLASSIFICATIONS:

Certified Paving Foreman

TEST BORING PRELIMINARY TO CONSTRUCTION-NORTH

Rates Expiration Date :

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:
Bergen, Essex, Hudson, Middlesex, Morris, Passaic, Somerset, Union

SHIFT DIFFERENTIAL:
Employees on a shift other than between the hours of 8:00 AM and 5:00 PM shall receive an additional \$2.00 per hour.

OVERTIME:
Hours in excess of 8 per day, Monday through Friday, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and holidays shall be paid at double the regular rate.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Hazardous Waste Pay (for Levels A, B, and C): an additional 15% of the hourly rate, per hour.

A newly hired Helper with no experience in the industry shall be paid as follows:
1st year on the job - 70% of Helper wage rate
2nd year on the job - 80% of Helper wage rate
3rd year on the job - 90% of Helper wage rate
All helpers receive full fringe benefit rate.
Effective Dates:

10/18/2024

Rate	Fringe	Total
37.58	34.49	72.07

CLASSIFICATIONS:

Helper (4th year helper)

Effective Dates:

10/18/2024

Rate	Fringe	Total
47.88	34.49	82.37

CLASSIFICATIONS:

Driller

Effective Dates:

10/18/2024

Rate	Fringe	Total
54.50	34.49	88.99

CLASSIFICATIONS:

Foreman

HEAVY & GENERAL LABORERS - NORTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	11/12/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	11/12/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; asphalt raker or lute man

HEAVY & GENERAL LABORERS - NORTH

Rates Expiration Date :

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

"B" Rate:

concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.75	37.33	88.08	91.53	94.78

CLASSIFICATIONS:

TRAFFIC CONTROL COORDINATOR Rate

HEAVY & GENERAL LABORERS - NORTH

Rates Expiration Date :

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.05	37.33	91.38	95.83	100.08

CLASSIFICATIONS:

" CERTIFIED FOREMAN Rate" :

Effective Dates:

11/12/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
55.05	37.33	92.38	96.83	101.08

CLASSIFICATIONS:

" CERTIFIED GENERAL FOREMAN Rate" :

HEAVY & GENERAL LABORERS - SOUTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester, Mercer, Ocean, Salem

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

Effective Dates:

	12/31/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

CLASSIFICATIONS:

"D" Rate:

basic, landscape, asphalt, slurry seal, or railroad track laborer; utility meter installer; flagman; salamander tender; pitman; dumpman; rakers or tampers on cold patch work; wrappers or coaters of pipe; waterproofer; timberman; wagon drill or drill master helper; powder carrier; magazine tender; signal man; power buggy operator; tree cutter; operator of basic power tools

Effective Dates:

	12/31/2024		03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

"C" Rate:

pipe layer; laser man; conduit or duct line layer; operator of jack hammer, chipping hammer, pavement breaker, concrete cutter, asphalt cutter, sheet hammer, or walk-behind saw cutter; sandblaster; acetylene cutting or burning; wagon drill, directional drill, or hydraulic drill operator; drill master; core driller; asphalt raker or lute man

HEAVY & GENERAL LABORERS - SOUTH

Rates Expiration Date :

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.80	37.33	91.13	94.58	97.83

CLASSIFICATIONS:

"A" Rate:

blaster

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

"FOREMAN" Rate:

labor foreman, asphalt foreman, drill foreman, pipe foreman, grade foreman, finisher foreman, concrete foreman

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.55	37.33	91.88	95.33	98.58

CLASSIFICATIONS:

"GENERAL FOREMAN" Rate

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.75	37.33	88.08	91.53	94.78

CLASSIFICATIONS:

TRAFFIC CONTROL COORDINATOR Rate

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
55.05	37.33	92.38	96.83	101.08

CLASSIFICATIONS:

" CERTIFIED GENERAL FOREMAN Rate" :

HEAVY & GENERAL LABORERS - SOUTH

Rates Expiration Date :

Effective Dates:

12/31/2024			03/01/2025	03/03/2026
Rate	Fringe	Total	Total	Total
54.05	37.33	91.38	95.83	100.08

CLASSIFICATIONS:

" CERTIFIED FOREMAN Rate" :

Effective Dates:

12/31/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

"B" Rate:
concrete finisher; setter of brick or stone pavers; stone cutter; form setter; manhole, catch basin, or inlet builder; asphalt screedman; rammer; hardscaping; gunite nozzle man

PIPELINE - MAINLINE TRANSMISSION **Rates Expiration Date :**

These rates apply to the following: welding on Transportation Mainline pipe lines (cross-country pipe lines, or any segments thereof, transporting coal, gas, oil, water or other transportable materials, vapors or liquids, including portions of such pipe lines within private property boundaries up to the final metering station or connection - the point where a valve, consumer connection, or town border station divides mainline transmission lines or higher pressure lateral and branch lines from lower pressure distribution systems).

PER DIEM PAYMENT:

In addition to the total wage rate paid for each craft, the following per diem (per day) amounts must also be paid - Pipeline Journeyman: \$80.50; Pipeline Journeyman Welder: \$140.50; and Pipeline Helper: \$64.50. Note: in order to receive the per diem payment an employee must work a minimum of 8 hours in a 24 hour period.

NOTES:

- Journeymen employed as "stringer bead" welders and journeymen who are regularly employed as "hot-pass" welders shall receive \$1.00 per hour more than other journeymen.
- Welders running "stringer bead" or "hot-pass" on "cutouts" or "tie-ins" on a production basis shall be paid \$1.00 per hour above the journeymen rate.
- Whenever a welder helper is employed using a power buffer or power grinder immediately behind the stringer bead and/or hot-pass welders, and the pipe gang is set on a production basis, the helper shall be paid \$2.00 per hour above the helper rate.
- If back welding is performed inside a pipe under either or both of the following conditions, the welder engaged in the welding will receive \$3.00 per hour above the regular rate for the job only for the days on which such back welding is performed:
 - The employer elects, as a regular procedure, to back weld each line-up. This condition is not intended to apply to occasional back welding performed by the pipe gang to repair a bead, to rectify a "high-lo" condition or wall thickness, etc.
 - A welder is required to back weld a completed weld behind the firing line.
- If the welder helper is required to go inside the pipe for the purpose of brushing, buffing and grinding the weld, they shall receive a wage rate \$1.00 per hour above the regular helper rate for the days involved.
- Welders working on "hot work" shall be paid \$2.00 per hour above the regular rate for each day engaged in such work. "Hot work" is defined as work on lines in service where there is the danger of fire or explosion.

The regular workday shall be 8 hours, between 8:00 AM and 4:30 PM.

OVERTIME:

Hours in excess of 8 per day, and all hours on Sundays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.

Effective Dates:

06/13/2024

Rate	Fringe	Total
57.34	35.90	93.24

CLASSIFICATIONS:

Pipeline Journeyman Welder

PIPELINE - MAINLINE TRANSMISSION

Rates Expiration Date :

Effective Dates:

06/13/2024

Rate	Fringe	Total
57.34	35.90	93.24

CLASSIFICATIONS:

Pipeline Journeyman

Effective Dates:

06/13/2024

Rate	Fringe	Total
33.84	25.02	58.86

CLASSIFICATIONS:

Pipeline Helper

PIPELINE - GAS DISTRIBUTION

Rates Expiration Date :

These rates apply to the following: welding on gas line distribution systems (that portion of the gas distribution system placed in streets, roads, subways, tunnels, viaducts, highways and easements which serves the users of gas).

SHIFT DIFFERENTIALS:
An "irregular" shift may start any time from 5:00 PM to 12:00 AM, Monday through Friday, and shall receive an additional 15% of the regular rate per hour, inclusive of benefits.

OVERTIME:
Hours in excess of forty per week, and all hours on Saturdays shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the regular rate, inclusive of benefits.

RECOGNIZED HOLIDAYS: New Year's Day, Memorial Day, July 4th, Labor Day, Thanksgiving Day, and Christmas Day. Sunday holidays observed the following Monday.
Effective Dates:

11/04/2024		
Rate	Fringe	Total
64.70	34.74	99.44

CLASSIFICATIONS:

Pipeline Journeyman Welder
Effective Dates:

11/04/2024		
Rate	Fringe	Total
64.70	34.74	99.44

CLASSIFICATIONS:

Pipeline Journeyman
Effective Dates:

11/04/2024		
Rate	Fringe	Total
41.73	24.77	66.50

CLASSIFICATIONS:

Pipeline Helper

ASPHALT LABORERS- NORTH **Rates Expiration Date :**

THESE RATES APPLY IN THE FOLLOWING COUNTIES ONLY:

Bergen, Essex, Hudson, Hunterdon, Middlesex, Monmouth, Morris, Passaic, Somerset, Sussex, Union, Warren

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

FOR TIDE WORK (pertains to tidal water): A contractor can start their job according to tide schedules (tide schedules are the various high and low tides related to this work) providing the eight (8) hour shift is completed between the hours of 5:00 AM and 6:30 PM.

Effective Dates:

11/20/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
53.55	37.33	90.88	94.33	97.58

CLASSIFICATIONS:

Asphalt Foreman

Effective Dates:

11/20/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.25	37.33	87.58	91.03	94.28

CLASSIFICATIONS:

Asphalt Screedman

Effective Dates:

11/20/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
50.00	37.33	87.33	90.78	94.03

CLASSIFICATIONS:

Asphalt Raker or Lute Man

ASPHALT LABORERS- NORTH

Rates Expiration Date :

Effective Dates:

11/20/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
49.30	37.33	86.63	90.08	93.33

CLASSIFICATIONS:

Asphalt Laborer

Effective Dates:

11/20/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
54.05	37.33	91.38	95.83	100.08

CLASSIFICATIONS:

Certified Asphalt Foreman

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Electrician-Utility Work (North)
(For apprentice rates refer to Electrician-Utility Work (North) in any county rate package).
These rates apply to work contracted for by the following utility companies:
Public Service Electric & Gas Co. of NJ, GPU Energy, Borough of Madison Electric Department, Sussex Rural Electric Cooperative, Rockland Utilities, and Butler Municipal Electric Co.
These rates do not apply to work on substations or switching stations.
For Utility work contracted for by a utility company other than those listed above or those listed under "Electrician-Utility Work (South), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 6:00 AM and 6:00 PM.
FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)-all hours of work shall be paid at double the hourly rate.
SHIFT DIFFERENTIALS:
Shift work must run for a minimum of 5 consecutive workdays.
2nd shift (between the hours of 4:30 PM and 1:00 AM): 8 hours of work + 17.3% of the regular rate, inclusive of benefits.
3rd shift (between the hours of 12:30 AM and 9:00 AM): 8 hours of work + 31.4% of the regular rate per hour, inclusive of benefits.

OVERTIME:
Hours in excess of 8 per day, or before or after the regular wokday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate, inclusive of benefits. All hours on Sundays and holidays shall be paid at double the hourly rate, inclusive of benefits.
Four 10-hour days may worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday.

RECOGNIZED HOLIDAYS:
New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day and Christmas Day, or day on which they are legally observed.

Effective Dates:

12/01/2024		
Rate	Fringe	Total
64.83	44.73	109.56

CLASSIFICATIONS:

Chief Lineman

Effective Dates:

12/01/2024		
Rate	Fringe	Total
61.16	42.20	103.36

CLASSIFICATIONS:

Journeyman Lineman

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
61.16	42.20	103.36

CLASSIFICATIONS:

Special License Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
60.55	41.77	102.32

CLASSIFICATIONS:

Transit Man

Effective Dates:

12/01/2024

Rate	Fringe	Total
58.71	40.50	99.21

CLASSIFICATIONS:

Line Equipment Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
51.37	35.44	86.81

CLASSIFICATIONS:

Dynamite Man

Effective Dates:

12/01/2024

Rate	Fringe	Total
76.45	52.75	129.20

CLASSIFICATIONS:

General Foreman

Effective Dates:

12/01/2024

Rate	Fringe	Total
70.33	48.52	118.85

CLASSIFICATIONS:

Assistant General Foreman

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
68.50	47.26	115.76

CLASSIFICATIONS:

Line Foreman

Effective Dates:

12/01/2024

Rate	Fringe	Total
49.54	34.18	83.72

CLASSIFICATIONS:

Street Light Mechanical Leader

Effective Dates:

12/01/2024

Rate	Fringe	Total
47.09	32.49	79.58

CLASSIFICATIONS:

Groundman Winch Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
47.09	32.49	79.58

CLASSIFICATIONS:

Groundman Truck Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
46.48	32.07	78.55

CLASSIFICATIONS:

Street Light Mechanic

Effective Dates:

12/01/2024

Rate	Fringe	Total
46.48	32.07	78.55

CLASSIFICATIONS:

Line Equipment Mechanic

ELECTRICIAN- UTILITY WORK (NORTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
39.75	27.42	67.17

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/01/2024

Rate	Fringe	Total
36.70	25.32	62.02

CLASSIFICATIONS:

Groundman 1st Year

Effective Dates:

12/01/2024

Rate	Fringe	Total
60.55	41.77	102.32

CLASSIFICATIONS:

Line Equipment Foreman

ELECTRICIAN- UTILITY WORK (SOUTH)

Rates Expiration Date :

Electrician-Utility Work (South)
(For apprentice rates refer to Electrician-Utility Work (South) in any county rate package).
These rates apply to work contracted for by the following utility company:
Atlantic City Electric.
These rates do not apply to work on substations or switching stations.
For utility work contracted for by a utility company other than the one listed above or those listed under "Electrician-Utility Work (North), see the "Outside Commercial Rates" for the county in which the jobsite is located.

* FOR OUTSIDE COMMERCIAL RATES PLEASE SEE COUNTY RATES

The regular workday is 8 hours, between 7:00 AM and 4:30 PM.
FOR EMERGENCY WORK ONLY: (emergency work is defined as work caused by storm, catastrophe, act of god, and circumstances beyond the control of the employer)- all hours of work shall be paid at double the hourly rate.

SHIFT DIFFERENTIALS:

Shift work must run for a minimum of 5 consecutive workdays.
When two (2) or three (3) shifts are worked the following shall apply:
1st shift (between the hours of 8:00 AM and 4:30 PM)
2nd shift (between the hours of 4:30 PM and 12:30 AM): 8 hours of work + 10% of the regular rate of pay for 7.5 hours worked.

3rd shift (between the hours of 12:30 AM and 8:00 AM): 8 hours of work + 15% of the regular rate of pay for 7 hours worked.

OVERTIME:

Hours in excess of 8 per day, or before or after the regular wokday Monday through Friday, that is not shift work, and all hours on Saturday shall be paid at time and one-half the regular rate. All hours on Sundays and Holidays shall be paid double the hourly rate.

Four 10-hour days may be worked, at straight time, between 6:00 AM and 6:00 PM, Monday through Thursday with Friday used as a make-up day.

RECOGNIZED HOLIDAYS:

New Year's Day, Memorial Day, July 4th, Labor Day, Veterans' Day, Thanksgiving Day and Christmas Day or on days celebrated.

WORKING RULES:

There shall be a Foreman in charge of each work crew. No crews are to exceed twelve (12) men, including Foremen.

There shall be a General Foreman designated for transmission work when three (3) or more crews are on the same job and for distribution work where there are are more than twenty (20) employees on site.
A small job crew shall consist of five (5) or less employees, one (1) of the Journeyman Linemen in the crew shall be designated as a Small Job Foreman.
Work performed from ladders and/or mechanical lift equipment shall be the work of Linemen and/or Apprentices.
On new construction, fitting and framing poles, towers or structures may be done by Journeymen and/or Apprentices. Groundmen may assist, but may not perform any work which would be performed by Linemen if assembled in the air.
There shall be a Journeyman Lineman in each pole setting, erection, grounding, wire and cable-pulling crew of more than three (3) men.

Effective Dates:

12/01/2024		
Rate	Fringe	Total
71.87	59.12	130.99

CLASSIFICATIONS:

General Foreman

ELECTRICIAN- UTILITY WORK (SOUTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
64.01	54.22	118.23

CLASSIFICATIONS:

Foreman

Effective Dates:

12/01/2024

Rate	Fringe	Total
60.64	52.12	112.76

CLASSIFICATIONS:

Small Job Foreman

Effective Dates:

12/01/2024

Rate	Fringe	Total
56.15	49.33	105.48

CLASSIFICATIONS:

Heavy Equipment Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
56.15	49.33	105.48

CLASSIFICATIONS:

Cable Splicer

Effective Dates:

12/01/2024

Rate	Fringe	Total
56.15	49.33	105.48

CLASSIFICATIONS:

Journeyman Lineman

Effective Dates:

12/01/2024

Rate	Fringe	Total
56.15	49.33	105.48

CLASSIFICATIONS:

Journeyman Welder

ELECTRICIAN- UTILITY WORK (SOUTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
56.15	49.33	105.48

CLASSIFICATIONS:

Journeyman Painter

Effective Dates:

12/01/2024

Rate	Fringe	Total
44.92	42.36	87.28

CLASSIFICATIONS:

Light Equipment Operator

Effective Dates:

12/01/2024

Rate	Fringe	Total
39.31	38.86	78.17

CLASSIFICATIONS:

Groundman Truck Driver

Effective Dates:

12/01/2024

Rate	Fringe	Total
36.50	37.12	73.62

CLASSIFICATIONS:

Groundman 3rd Year

Effective Dates:

12/01/2024

Rate	Fringe	Total
33.69	35.37	69.06

CLASSIFICATIONS:

Groundman 2nd Year

Effective Dates:

12/01/2024

Rate	Fringe	Total
30.88	33.62	64.50

CLASSIFICATIONS:

Groundman 1st Year

ELECTRICIAN- UTILITY WORK (SOUTH)

Rates Expiration Date :

Effective Dates:

12/01/2024

Rate	Fringe	Total
24.71	29.80	54.51

CLASSIFICATIONS:

Flagman

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date :**

****THESE RATES APPLY TO CONSTRUCTION ON NEW TRANS HUDSON TUNNELS ONLY****

{For apprentice rates refer to "Laborer - Heavy & General" apprentice rates in any county rate package}

The regular workday consists of 8 hours, starting at 7:00 AM or 8:00 AM.

SHIFT DIFFERENTIALS:

- Shifts must start at 3:00 PM, 4:00 PM, 12:00 AM, or 1:00 AM, to be considered shift work, except when the project owner mandates special hours of work in the job specifications, in which case those hours may be considered shift work.
- When such hours are mandated by the project owner, a shift that begins before midnight on Friday and ends on Saturday morning, or that begins at or after 8:00 PM on Sunday and ends on Monday morning may be paid at the shift differential rate.
- Shifts shall receive an additional \$3.00 per hour.

OVERTIME:

- Hours in excess of 8 per day, Monday through Friday, or outside of the regular workday that are not shift work, and all hours on Saturdays, shall be paid at time and one-half the hourly rate. All hours on Sundays and holidays shall be paid at double the hourly rate.
- Four 10-hour days may be worked, Monday through Thursday, at straight time, with Friday used as a make-up day for a day lost to inclement weather. If Friday is not a make-up day, all hours on Friday shall be paid at time and one-half the hourly rate.

RECOGNIZED HOLIDAYS: New Year's Day, Presidents' Day, Memorial Day, July 4th, Labor Day, Presidential Election Day, Veterans' Day, Thanksgiving Day, Christmas Day. Sunday holidays observed the following Monday. Veterans Day may be substituted for the day after Thanksgiving. However, in the trading of Veterans Day for the day after Thanksgiving, if overtime is worked on Veterans Day, it shall be paid at double the hourly rate.

Hazardous Waste Work:

- where Level A, B, or C protection is required: + \$5.00/hr
- other Hazardous Waste site: + \$1.00/hr

Traffic Control Coordinator: When either of the work classifications found below are working as a Traffic Control Coordinator they are to receive \$.75 above their current rate of pay.

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
78.08	37.33	115.41	119.68	123.81

CLASSIFICATIONS:

Walking Boss & Superintendent

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
77.63	37.33	114.96	119.23	123.36

CLASSIFICATIONS:

Heading Foreman, Shaft Foreman, Rod Foreman, Electrical Foreman, Rigging Foreman

TERRITORY
ENTIRE STATE

NEW JERSEY DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
PREVAILING WAGE RATE DETERMINATION

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS **Rates Expiration Date :**

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.88	37.33	114.21	118.48	122.61

CLASSIFICATIONS:

Iron Foreman, Caulking Foreman, Form Foreman, Cement Finishing Foreman, Concrete Foreman, Track Foreman, Clean-up Foreman, Grout Foreman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
80.63	37.33	117.96	122.23	126.36

CLASSIFICATIONS:

Blaster

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
76.05	37.33	113.38	117.66	121.78

CLASSIFICATIONS:

Top Labor Foreman

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.53	37.33	112.86	117.13	121.26

CLASSIFICATIONS:

Skilled Men (including Caulker, Powder Carrier, all other skilled men)

Skilled Men (including Miner, Drill Runner, Iron Man, Conveyor Man, Maintenance Man, Safety Miner, Rigger, Block Layer, Cement Finisher, Rod Man)

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
75.30	37.33	112.63	116.91	121.03

CLASSIFICATIONS:

Semi-Skilled Men (including Bell or Signal Man top or bottom, Form Worker & Mover, Concrete Worker, Shaft Man, Tunnel Laborer, Caulker's Helper, all other semi-skilled)

Semi-Skilled Men (including Miner's Helper, Chuck Tender, Track Man, Nipper, Brake Man, Derail Man, Cable Man, Hose Man, Gravel Man, Form Man)

HEAVY & GENERAL LABORERS- NEW TRANS HUDSON TUNNELS

Rates Expiration Date :

Effective Dates:

04/17/2024			03/01/2025	03/01/2026
Rate	Fringe	Total	Total	Total
74.70	37.33	112.03	116.31	120.43

CLASSIFICATIONS:

All others (including Powder Watchman, Change House Attendant, Top Laborer, Job Steward)

SPECIAL PROVISIONS

Mr. Kenny Cruz
Superintendent of Signal Division
City of Plainfield - 515 Watchung Avenue
Kenny.cruz@plainfieldnj.gov
Telephone: 908-753-3409

AUTHORIZATION OF CONTRACT

The Contract is authorized by the provisions of Title 27 of the Revised Statutes of New Jersey and supplements thereto, and Title 23 of the United States Code - Highways.

The Contract is authorized by the provisions of Title 27 of the Revised Statutes of New Jersey and supplements thereto.

SPECIFICATIONS TO BE USED

The 2019 Standard Specifications for Road and Bridge Construction, of the New Jersey Department of Transportation (Department) as amended herein will govern the construction of this Project and the execution of the Contract.

These Special Provisions consist of the following:

Pages 1 to 56 inclusive

General wage determinations issued under Davis-Bacon and related acts, published by US Department of Labor, may be obtained from the Wage Determinations online website at sam.gov. Select state, county, and construction type heading: HIGHWAY where the Project is to be performed then click Search.

Pay the prevailing wage rates determined by the United States Secretary of Labor and the New Jersey Department of Labor and Workforce Development. If the prevailing wage rate prescribed for any craft by the United States Secretary of Labor is not the same as the prevailing wage rate prescribed for that craft by the New Jersey Department of Labor and Workforce Development, pay the higher rate.

State wage rates may be obtained from the New Jersey Department of Labor & Workforce Development (Telephone: 609-292-2259) or by accessing the Department of Labor & Workforce Development's website at https://www.nj.gov/labor/wagehour/wagerate/prevaling_wage_determinations.html. The State wage rates in effect at the time of award are part of this Contract, pursuant to Chapter 150, Laws of 1963 (N.J.S.A. 34:11-56.25 et seq.)

In the event it is found that any employee of the contractor or any subcontractor covered by the contract, has been paid a rate of wages less than the minimum wage required to be paid by the contract, the contracting agency may terminate the contractor's or subcontractor's right to proceed with the work, or such part of the work, as to which there has been a failure to pay required wages and to prosecute the work to completion or otherwise. The contractor and his sureties shall be liable to the contracting agency for any excess costs occasioned thereby.

If an employee of the Contractor or subcontractor has been paid a rate of wages less than the prevailing wage, the Department may suspend the Work, and declare the Contractor in default.

The County must report all suspected or reported violations to the federal agency providing the funding for the project.

Contractor's compliance is required with the Copeland "Anti-Kickback" Act, (40 U.S.C. 3145), as supplemented by the Department of Labor regulations (29 CFR Part 3, "Contractors and subcontractors on Public Building or Public Work Financed in Whole or In Part by Loans or Grants from the United States"). Each contractor or subcontractor is prohibited from inducing by any means, any person employed in the construction, completion, or repair of public work, to give up

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

any part of the compensation to which he or she is otherwise entitled. The County must report all suspected or reported violations to the federal agency providing the funding for the project.

The following additional project specific Attachments are located at the end of these Special Provisions:

1. Disadvantaged Business Enterprise Utilization. (Federal Aid Project Attachment 1)
2. Specific Equal Employment Opportunity Responsibilities on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 2)
3. Requirements for Affirmative Action to Ensure Equal Employment Opportunity on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 3)
4. Federal Equal Employment Opportunity Contract Specifications for NJDOT Federal Aid Projects. (Federal Aid Project Attachment 4)
5. State of New Jersey Mandatory Equal Employment Opportunity Language on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 5)
6. Investigating, Reporting and Resolving Employment Discrimination and Sexual Harassment Complaints on NJDOT Federal Aid Projects. (Federal Aid Project Attachment 6)
7. Payroll Requirements for NJDOT Federal Aid Projects. (Federal Aid Project Attachment 7)
8. FHWA-1273 Required Contract Provisions, Federal Aid Construction Contracts. (Federal Aid Project Attachment 8)
9. State Mandatory Addendum to FHWA 1273 Required Contract Provision, Federal Aid Construction Contracts as Amended or Supplemented. (Federal Aid Project Attachment 9)
10. Federal Mandatory Equal Opportunity Language on Federal Aid Projects. (Federal Aid Project Attachment 10)
11. Byrd Anti-Lobbying Certification. (Federal Aid Project Attachment 11)

GENERAL

All awards shall be made subject to the approval of Union County and concurrence by the New Jersey Department of Transportation. No construction shall start before approval of said award by Union County. Prior to the start of construction, the contractor must submit a Material Questionnaire (SA-11) listing all sources of materials. Any materials used on the project from a non-approved New Jersey Department of Transportation source will be considered non-participating. The contractor is also notified that the District Office, Division of Local Aid and Economic Development must be notified of the construction commencement date prior to the start of construction.

Award of contract and subletting will not be permitted to, materials will not be permitted from, and use of equipment will not be permitted that is owned and/or operated by, firms and individuals included in the report of suspensions, debarments and disqualifications of firms and individuals as maintained by the Department of the Treasury, Division of Purchase & Property, Contract Compliance & Administration, Trenton NJ 08625 (609-292-5400).

Payment for a pay item in the proposal includes all the compensation that will be made for the work of that item as described in the contract documents unless the "measurement and payment" clause provides that certain work essential to that item will be paid for under another pay item.

Whenever any section, subsection, subpart, or subheading is amended by such terms as changed to, deleted, or added it is construed to mean that it amends that section, subsection, subpart, or subheading of the 2019 Standard Specifications unless otherwise noted.

Whenever reference to page number is made, it is construed to refer to the 2019 Standard Specifications unless otherwise noted.

Henceforth in this supplementary specification whenever reference to the State, Department, ME, RE, or Inspector is made, it is construed to mean the County of Union

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

Whenever reference to Title 27 is made, it is construed to mean Title 40.

DIVISION 100 – GENERAL PROVISIONS

SECTION 101 – GENERAL INFORMATION

101.01 INTRODUCTION

THE FOLLOWING IS ADDED:

Pursuant to N.J.S.A. 27:1B-21.6, the County intends to enter into a contract for the advancement of the Project. However, sufficient funds for the Project may not have been appropriated, and only amounts appropriated by law may be expended. Payment under the Contract is restricted to the amounts appropriated for a fiscal year (FY).

Governing bodies have no legal obligation to make such an appropriation. There is no guarantee that additional funds will be appropriated. Failure by governing bodies to appropriate additional funds will not constitute a default under, or a breach of, the Contract. However, if the County terminates the Contract or suspends work because funds have not been appropriated, the parties to the Contract will retain their rights for suspension and termination as provided in 108.13, 108.14, and 108.15; except as indicated below.

Do not expend or cause to be expended any sum in excess of the amount allocated in the current fiscal year's Capital Program (as specified below). The County will notify the Contractor when additional funding has been appropriated. Any expenditure by the Contractor which exceeds the amount appropriated is at the Contractor's risk and the Contractor waives its right to recover costs in excess of that appropriated amount.

The County anticipates that \$1 million dollars in additional funds will be provided during Federal FY 2024.

The County anticipates that the balance of the funds necessary to complete the Project will be provided during Federal FY 2024.

The Federal FY begins October 1 of the previous calendar year and the State FY begins July 1 of the previous calendar each year.

101.03 TERMS

THE FOLLOWING TERM IS CHANGED:

Department. The Department of Transportation & Infrastructure of Union County in the State of New Jersey, as created by law, acting through duly authorized representatives, such representatives acting within the scope of the particular duties delegated to them.

THE FOLLOWING TERM IS ADDED:

Full Traffic Access. All work is complete to allow safe unencumbered use of the final paved portion of roadway throughout the project including but not limited to striping, RPMs, rumble strips, highway lighting, and traffic signals as determined by the RE.

THE FOLLOWING TERM IS REVISED:

Actual Cost: The computed cost using calculations of direct labor, labor fringe benefits, indirect labor costs, insurance, materials, extraordinary expenses, equipment, profit, overhead, and subcontractors.

101.04 INQUIRIES REGARDING THE PROJECT

1. Before Award of Contract.

THE FIRST PARAGRAPH IS CHANGED TO:

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

Submit inquiries and/or view other questions/answers by following the format prescribed on the project's electronic bidding web page.

THE SECOND PARAGRAPH IS CHANGED TO:

The deadline for submitting inquiries is 12:00 noon, 7 days before the opening of bids.

2. After Award of Contract.

Local Aid District 2 Office
153 Halsey Street, 5th Floor
Newark, NJ 07102
Telephone: 862-350-5730
Telephone: 856-414-8414

County Engineer
Division of Engineering
Ricardo Matias, PE, CME, CFM
2325 South Avenue
Scotch Plains, New Jersey 07076
Telephone: (908) 789-3675
Fax: (908) 789-3674

SECTION 102 – BIDDING REQUIREMENTS AND CONDITIONS

102.01 QUALIFICATION TO BID

THE FOLLOWING IS ADDED:

At the time of the preconstruction meeting, the Bidder or subcontractor(s) shall be NJDOT pre-qualified in the following NJDOT Class Codes:

Class Code 7: Electrical
Class Code 8C: Curbs, Sidewalks, Miscellaneous Concrete Work
Class Code 17: Standard Pavement Markings
Class Code 18: Long Life Pavement Markings

102.02 BIDDER REGISTRATION AND DOWNLOADING OF THE PROPOSAL DOCUMENTS

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The Bidder shall not alter or in any way change the software.

102.03 REVISIONS BEFORE SUBMITTING A BID

THE SECOND PARAGRAPH IS CHANGED TO:

The Bidder shall acknowledge all addenda posted through the Department's website. The addenda acknowledgement folder is included in the Department's electronic bidding file. The Department has the right to reject the bid if the Bidder has not acknowledged all addenda posted.

102.04 EXAMINATION OF CONTRACT AND PROJECT LIMITS

2. Utility Agreements.

THE LAST SENTENCE IS DELETED.

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3. Existing Plans and As-Built.

Existing Plans including structural plans, contour maps, and as-built plans used are as follows:

- a. Traffic Plan, E. Seventh St. with Berckman St., August 31, 1981
- b. Intersection of East Seventh Street and Leland Ave., July 8, 1977, revised March 17, 1981
- c. Intersection of East Seventh Street and Woodland Ave., revised March 17, 1981
- d. Proposed Layout, East Front St – Leland Ave, October 13, 1960

102.09 PROPOSAL BOND

THE FIFTH PARAGRAPH IS CHANGED TO:

The County will not accept Proposal Bonds that do not comply in all respects with the provisions of N.J.A.C. 16:44-7.3(e) and that are not substantiated by a valid power of attorney executed by the Surety.

102.10 SUBMISSION OF THE BID

THE SECOND PARAGRAPH IS CHANGED TO:

The Bidder shall ensure delivery of its bid with all required components and attachments, including, but not limited to the following:

1. Schedule of Items.
2. Proposal Electronic Bidding File with Bidder's Certification.
3. For wholly State Funded contracts, acknowledgement of compliance with the registrations specified in 102.01.
4. Proposal Bond form.
5. Other related documents as specified in the Contract.
6. For Federal Aid Projects exceeding a bid amount of \$100,000 or more, Bidder shall certify to the Byrd Anti-Lobbying Act requirements under 31 USC 1352.
7. For Projects subject to the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 to .98, an acknowledgement that the Bidder accounted for the prevailing wage rate in their bid pricing and that the Bidder agrees to pay the prevailing wage rate if awarded the Contract.

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

A directory of certified Disadvantaged Small Businesses Enterprise firms can be found in the New Jersey Unified Certification Program Vendor Certification database, online at <https://njucp.dbesystem.com/>.

A directory of certified Emerging Small Business Enterprise firms can be found in the Emerging Small Business Program online directory at <http://www.state.nj.us/transportation/business/civilrights/pdf/ESBEDirectory.pdf>.

A directory of registered Small Businesses Enterprise firms can be found in the New Jersey Selective Assistance Vendor Information (NJSAVI) database online at https://www20.state.nj.us/TYTR_SAVI/vendorSearch.jsp.

All of the above directories are to be used as a source of information only and does not relieve the Bidder of their responsibility to seek out Enterprises not listed, prior to bidding.

THE FOLLOWING IS ADDED AT THE END OF THE SUBSECTION:

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By submitting its bid to the County, the Bidder warrants that no person or selling agency has been employed or retained by the Bidder to solicit or secure such Contract upon an agreement or understanding for a commission, percentage, brokerage or contingent fee, except bona fide employees or bona fide established commercial or selling agencies maintained by the Bidder for the purpose of securing business, for the breach or violation of which warranty the County shall have the right to annul such Contract without liability or in its discretion to deduct from the contract price or consideration the full amount of such commission, percentage, brokerage or contingent fee as required by N.J.S.A. 52:34-15.

102.13 CONSIDERATION OF BIDS

102.13.01 Bidder Pre-Award Requirements

PART C IS CHANGED TO:

C. All Projects. Prior to the time of contract award:

1. Submit proof of business registration with the Division of Revenue and Enterprise Services in the New Jersey Department of Treasury as required by N.J.S.A. 52:32-44. Information on how a business can register and obtain proof of business registration can be accessed on the internet at www.nj.gov/njbgs.
2. On the Disclosure of Investment Activities in Iran (Form DC-16) provided by the Department, certify pursuant to N.J.S.A. 52:32-58, that neither the Bidder, nor one of its parents, subsidiaries, and affiliates (as defined in N.J.S.A. 52:32-56(e)(3)), is listed on the Department of the Treasury's List of Persons or Entities Engaging in Prohibited Investment Activities in Iran and that neither is involved in any of the investment activities set forth in N.J.S.A. 52:32-56(f). If the Bidder is unable to certify, the Bidder shall provide a detailed and precise description of such activities to the Department.

THE FOLLOWING IS ADDED IN PART C:

3. On the "Certification of Non-Debarment Form" provided by the Department, certify pursuant to N.J.S.A. 52:32-44.1, that neither the Bidder, nor its affiliates are debarred at the federal level from contracting with a federal government agency. The Department shall not make, negotiate, or award a contract to any bidder that does not provide the above certification. Instructions on submitting the form may be found on the Department's Electronic Bidding website and the Department's website. In addition, all Bidders must register with the federal System for Award Management (SAM) prior to contract award. In order to comply with this requirement, Bidders must register in SAM at <https://www.sam.gov> and the Department will verify the successful Bidder's registration in SAM prior to contract award.

THE FOLLOWING IS ADDED IN PART C:

4. On the "Certification of Non-Involvement in Prohibitive Activities in Russia or Belarus Form" provided by the Department, certify pursuant to N.J.S.A. 52:32-60.1, that neither the Bidder nor its affiliates are engaged in prohibited activities in Russia or Belarus as defined therein.

THE FOLLOWING IS ADDED IN PART C:

5. Submit proof of valid Public Works Contractor Registration issued by the New Jersey Department of Labor, Division of Wage and Hour Compliance according to N.J.S.A. 34:11-56.48, *et seq.*

102.15 DISQUALIFICATION OF BIDDERS

THE SECOND PARAGRAPH IS CHANGED TO:

The Department will disqualify a Bidder and reject a bid submitted by that Bidder if the Bidder is determined by the Department to lack responsibility. Factors demonstrating a lack of responsibility include, but are not limited to:

1. Evidence of collusion among Bidders.

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2. Uncompleted work, which in the opinion of the Department, might hinder or prevent completion of additional work if awarded.
3. Failure to submit at time of bid or within 5 days of bid opening, a completed and signed CR-266 – Schedule of Disadvantaged Business Enterprise/Emerging Small Business Enterprise/Small Business Enterprise Participation.
4. Failure to submit within 5 days of bid opening, proof of documented evidence of good faith efforts to meet the Contract goal, if the Bidder fails to meet the Contract DBE, ESBE or SBE goal.
5. Failure to submit within 5 days of bid opening, a completed and signed Confirmation of DBE/ESBE/SBE Firm (Form CR-273) for each DBE/ESBE/SBE firm listed on the CR-266. The Bidder shall not complete any portion of the CR-273 form.
6. Failure to submit within 5 days of bid opening, a completed and signed DBE/ESBE/SBE Trucking Verification (Form CR-274) for each DBE/ESBE/SBE firm listed on the CR-266, if applicable. The Bidder shall not complete any portion of the CR-274 form.
7. Failure to submit within 5 days of bid opening, a completed and signed DBE/ESBE/SBE Regular Dealer/Supplier Verification (Form CR-272) for each DBE/ESBE/SBE Regular Dealer/Supplier listed on the CR-266, if applicable. The Bidder shall not complete any portion of the CR-272 form.
8. Failure of the Bidder to meet the Contract DBE, ESBE, or SBE goal as determined by the DCR/AA, or make adequate good faith efforts to do so.
9. Failure of the Bidder to acknowledge that the prevailing wage rate is accounted for in their bid pricing and that the Bidder agrees to pay the prevailing wage rate, if awarded the Contract, for Projects subject to the New Jersey Prevailing Wage Act, N.J.S.A. 34:11-56.25 to .98,
10. Submission of a materially unbalanced bid. A materially unbalanced bid is a bid where there is a reasonable doubt that award to the Bidder submitting a mathematically unbalanced bid, which is structured on the basis of nominal prices for some work and inflated prices for other work, will result in the lowest ultimate cost to the Department.
11. Lack of competency or lack of adequate machinery, plant, or other equipment.
12. Unsatisfactory performance on previous or current contracts.
13. Questionable moral integrity as determined by the Attorney General of New Jersey or the Department.
14. Any other outward actions or lack of action that demonstrates the Bidder is not responsible.
15. Disqualification, suspension, or debarment of an individual, firm, partnership, corporation, joint venture, or any combination as required by N.J.A.C. 16:44-11.1 for state projects.
16. Disqualification, suspension, or debarment of an individual firm, partnership, corporation, joint venture, or any combination as required by N.J.A.C. 16:44-11.1 or Federal Government's System for Award Management (SAM), located at <https://www.sam.gov/SAM/> for federally assisted contracts.
17. If the bidder is Federally debarred pursuant to N.J.S.A. 52:32-44.1.

SECTION 103 – AWARD AND EXECUTION OF CONTRACT

103.05 ESCROW BID DOCUMENTS

THE FOLLOWING SUBSECTION IS REVISED:

- A. **Purpose.** The bid documents are the supporting information, calculations, quotes, and other information used to prepare the bid. The Department may use the Contractor's bid documents to negotiate changes and claims if they are escrowed and a signed custody agreement is provided. The information contained in the bid documents does not modify the terms and conditions of the Contract. If the Contractor fails to escrow bid documents within the time specified in 103.04, the Department will not make payment for a disproportionate allocation of costs for work for which no Item is provided in the Contract, as specified in 102.08, in the renegotiation of costs of Items when there is a major decrease in quantity.

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SECTION 104 – SCOPE OF WORK

104.02 VALUE ENGINEERING

104.02.01 Purpose and Scope

THE FOLLOWING IS ADDED:

The Department will not consider the following as (a) VE Proposal(s):

104.03 CHANGES OF THE CONTRACT

104.03.01 Authority to Make Changes

The Department has the right to make changes to the Work at any time, including altering the Contract, altering the requirements of an Item, increasing, or decreasing the quantities of any Item, or deleting any Item. Such changes neither invalidate the Contract, nor release the Surety. The Contractor agrees to perform the Work as changed. If the Contractor does not perform, or refuses to perform the Work as changed, the Department may perform the work with its own forces. If the Department mobilizes its forces to perform the work, the Contractor agrees to pay the Department's cost of performing the work including the cost of material and labor used and the actual costs for police traffic protection and maintenance and protection of traffic as specified in 107.16.

104.03.02 Protests to Change Orders

THE SUBPART IS CHANGED TO:

If the Contractor disagrees with any terms or conditions set forth in a Change Order, submit a written protest to the Department within 30 days after the date of receipt of the Change Order.

A protest is notice that the terms and conditions for proposed work are not in accordance with the Contract, quantity adjustments are incorrect, or that the modification for Contract Time is incorrect. A protest is not a substitute for notice as specified in 104.03.04. Providing a protest within 30 days after the date of the receipt of a Change Order may not meet the requirements of 104.03.04 or N.J.S.A 59:13-5 and the Department will not make payment for the costs of a claim if recovery is barred by other provisions in the Contract.

In the protest, list the points of disagreement, and, if possible, the specification references, quantities, and costs involved. Ensure that the protest is a specific, detailed statement of the points of disagreement. The Department will reject general protests. If the Department rejects a protest for being a general protest, provide a specific, detailed statement within 7 days of such rejection.

Regardless of whether the Contractor's assent is required, if the Contractor refuses to sign the change order or submit an acceptable written protest within 30 days after the date of receipt of the Change Order or within 7 days of the initial rejection of a protest, the Department will make payment and modify Contract Time as set forth in the Change Order. Such payment is full payment for all work included or required by the Change Order and is conclusive as to any Contract Time modifications provided for therein or in establishing that no Contract Time modification was warranted.

When the Contractor signs a change order and the Department processes the Change Order within 15 days of receiving the Contractor's signature, the Contractor is barred from protesting the Change Order.

Protest does not relieve the Contractor from the obligation to proceed with work directed by an approved Change Order.

104.03.03 Types of Changes

1. Quantity Increases and Decreases.

THE SECOND PARAGRAPH IS CHANGED TO:

For minor changes in quantity, the Department will make payment for the quantity of the Item performed at the bid price for the Item. Construction layout is included in the price of the original work.

3. Changes in the Character of Work.

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THE THIRD PARAGRAPH IS CHANGED TO:

If a modification cannot be reached by agreement, the Department will make payment, only for the change in work, by force account as specified in 104.03.08.

104.03.07 Tracking Costs

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

For all work directed to be paid for by force account, track and maintain complete records to provide a clear distinction between the costs for the Force Account work and the costs for other operations. For costs which the Contractor will pursue reimbursement through a Notice or Claim, track and maintain complete records in Force Account style making a clear distinction between Contract work and the work related to the alleged changed condition.

104.03.08 Force Account

THE FIRST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Payment made for the work directed to be performed by force account represents full payment for that work including layout.

THE FIRST PARAGRAPH OF PART 7 IS CHANGED TO FOLLOWING:

7. **Equipment.** The Department will make payment for Contractor-owned or rented equipment required for the force account work. The Department will not provide payment for equipment that is determined to be more than necessary or unsuitable by the RE for the force account work or that is inoperable due to breakdown or during periods of repair. In the event the Contractor proposes to use equipment of a higher cost, including equipment with one or more of the following: specialized functionality, features, trim levels, options, or accessories than that suitable and necessary for the work, the Department will make payment at the rate applicable to the suitable and necessary equipment. The Department will make payment for Contractor-owned or rented equipment as follows:

PART 7.B IS CHANGED TO THE FOLLOWING:

- b. **Rented Equipment.** In the event that the Contractor does not own a specific type of equipment and must obtain it by rental, submit in writing to the RE for approval the need to rent the equipment and the rental rate for that equipment before using it on the work. Ensure the rental company does not rent equipment exclusively to a single Contractor. The Department will make payment for the rental of the equipment as specified in the rental agreements and as evidenced by paid invoices for the time that the equipment is used to accomplish the work, plus the cost of moving the equipment to, on, and away from the work site.

104.03.09 Delay Damages

1. **Non-Productive Activity.** The Department will make payment for the following non-productive activities:
PART E IS CHANGED TO:

- e. **Equipment.** If as the result of the delay, the equipment cannot be used for any active work, and is directed by the RE to remain on the work site during the delay, the Department will make payment as specified in 104.03.08.7.a.5. If as the result of the delay, the RE determines that the equipment cannot be used for any active work, the RE may request the Contractor to remove the equipment. The Contractor may remove the equipment from the work site or allow it to remain. If the equipment is removed from the work site, the Department will make payment for labor and equipment costs to remove the equipment and to return it to the work site at the end of the delay period. If the equipment remains, the Department will not make payment for the equipment as specified in 104.03.08.7.

If the equipment is required for additional maintenance within the Project Limits, maintenance of traffic control devices, maintenance of SESC measures, and similar activities resulting from the delay and approved by the RE, the Department will make payment as specified in 104.03.08.7.

THE FOLLOWING IS ADDED:

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4. **Equipment Escalation.** If, as the result of the delay, equipment use, which had a planned late-finish date occurring before an equipment rate increase date, is required to start after the equipment rate increase date, the Department will make payment for the following:
 - a. **Contractor owned equipment.** Equipment costs as specified in 104.03.08 at the higher rate as evidenced by a comparison of the Blue Book rate between the planned late finish date for the work and the Blue Book rate when the work was required because of the delay.
 - b. **Rented equipment.** Equipment costs as specified in 104.03.08 at the higher rate as evidenced by a comparison of rental agreements, including paid invoices, between the planned late finish date for the work and the date the work was required because of the delay. If rental agreements and paid invoices are not available, provide quotes from the rental company for both dates.

SECTION 105 – CONTROL OF WORK

105.01 AUTHORITY OF THE DEPARTMENT

105.01.01 RE

REVISE THE SECOND PARAGRAPH TO:

Unless otherwise specified, send correspondence with the Department to the RE. Where correspondence is specified to be directed to persons other than the RE, send a copy to the RE. Ensure that correspondence complies with the following:

1. Assign every correspondence sent to the Department a unique correspondence serial number in the subject line, numbered sequentially beginning with Contractor Correspondence No. 1.
2. If the correspondence includes a request for information or asks for an interpretation of the Contract, also assign a unique RFI serial number in the subject line numbered sequentially beginning with RFI-1.
3. If the correspondence constitutes a notice of change, assign a unique change notice serial number in the subject line numbered sequentially beginning with Change Notice No. 1. For subsequent correspondence referring to a change notice or to the events that are the subject of a previous change notice, refer in the subject line to the original change notice number.

105.02 RESPONSIBILITIES OF THE CONTRACTOR

105.02.05 Civil Rights Requirements

1. Federal Aid Projects.

a. Disadvantaged Business Enterprise/Emerging Small Business Enterprise Goals for this Contract
THE LAST PARAGRAPH IN PART A CHANGED TO:

If the Contractor fails to meet the Contract DBE goal, without demonstrating an adequate GFE as determined by DCRAA, the County will make a payment reduction from the total amount of payments made to the Contractor equal to the value of the DBE goal not attained as follows:

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$$\text{Value of DBE Goal Payment Reduction} = (\text{CG} - \text{AG}) \times \text{CP}$$

Where:

CG = Contract DBE Goal percentage, or approved DBE commitment, or if modified by the County, the Modified DBE Contract Goal percentage.

AG = Attained DBE Goal percentage = (total dollar amount paid to DBE suppliers and DBE subcontractors divided by CP) plus the percent value attributed to the Contractor's GFE approved by the County.

CP = Total Adjusted Contract Price less the payment adjustments for PERFORMANCE BOND AND PAYMENT BOND, and changes not associated with actual work including but not limited to incentives/disincentives, bonuses/penalties, acceleration, and portions of settlements not associated with work.

THE LAST SENTENCE OF THE FOURTH PARAGRAPH IS CHANGED TO:

When the Contract DBE goal or the approved DBE commitment is increased or decreased due to changes in firms, type of work, work items or subcontract value, and for each Field / Change Order that increases or decreases the Contract's dollar value, submit to DCR/AA to determine if and how these changes will apply to the Contract DBE Plan/Program:

THE FOLLOWING IS ADDED AT THE END OF PART A:

If the Contractor fails to meet the Contract DBE goal and DCR/AA deems the Contractor's GFEs insufficient, the County will provide the Contractor with an opportunity for an in-person meeting or written review of information and documentation provided with its Final DBE Report (Form CR 268). The Contractor will be required to make its case based on information it provided with Form CR 268. No new DBE evidence (e.g. revised CR 268 or introduction of new information/documentation) will be considered. The Contractor may make a request for an in-person meeting or written review in writing to the New Jersey Department of Transportation, Director, Division of Procurement, PO Box 605, Trenton, New Jersey, 08625-0605. The Contractor must specify one of the following in their request:

- (i) Written Review by the County. If the Contractor seeks written review by the County, it must submit written documented evidence or argument proving the Contractor submitted adequate good faith efforts; and include a narrative on what information DCR/AA failed to consider and/or where the regulations/rules were misapplied.
- (ii) In-Person Meeting. If the Contractor seeks an in-person meeting by the County, it must submit a written request for a meeting along with written documented evidence or argument proving the Contractor submitted adequate good faith efforts; and include a narrative on what information DCR/AA failed to consider and/or where the regulations/rules were misapplied. The in-person meeting will be scheduled by the County as soon as time permits.

105.03 CONFORMITY WITH THE CONTRACT

REVISE THE FIRST SENTENCE OF THE SECOND PARAGRAPH TO:

In the event the Contractor discovers a discrepancy, error, omission, or ambiguity in the Contract, or if the Contractor has any doubt or question as to the intent or meaning of the Contract, the Contractor must immediately notify the RE.

105.05 WORKING DRAWINGS

TABLE 105.05-1 IS CHANGED TO:

Table 105.05-1 – Working Drawing Submission Category	
Certified	Approved
Breakaway I-Beam GA Sign Support Posts	Catalog Cuts (related to landscape Items)
Bridge Drainage	Change in Structural Steel Details
Bridge Railing and Fencing Anchorage System	Change of Prestressed Concrete Strand Patterns
Catalog Cuts	Demolition Plans

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Composite Piles	Erection Plans
DMS Sign Support Structure	High Load Multi-Rotational (HLMR) Bearings
DMS Standard Ground Mounted	Isolation Bearings
Elastomeric Bearings Pads	ITS System Drawings, including Block Diagrams
Electrical Items Not Pre-Qualified	Machinery and Electrical Items for Movable Bridges
Expansion Joint Assemblies (except Modular Expansion Joint Assemblies)	Mechanically Stabilized Earth (MSE) Walls
Precast Prestressed Concrete Beams and Piles Fabrication	Modular Expansion Joint Assemblies
Reinforced Elastomeric Bearings	Other work shown on the Plans as conceptual
Sign Legends	Precast Concrete Arch Structures
Sign Support Structures	Precast Concrete Box Culverts
Structural Steel Fabrication	Prefabricated Modular Walls
	Stay-In-Place Forms
	Temporary Sheeting and Cofferdams
	Temporary Shielding
	Temporary Structures
	Value Engineering Plans

1. Certified Working Drawings.

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The County will require **30** days for review and certification or rejection and return of certified working drawings.

2. Approved Working Drawings.

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The County will require **45** days for review and approval or rejection and return of working drawings.

105.07.01 Working in the Vicinity of Utilities

A. Initial Notice.

1. Comcast (Cable TV)
Bob Knoepfel
Planning & Design Tech 2
800 Rahway Ave
Union, NJ 07063
732.602.7444 ext 6202293 (o)
908.378.0256 (m)
908.851.8892 (f)
robert_knoepfel@cable.comcast.com
Robert_Carpenter@comcast.com

3. Plainfield Municipal Utilities Authority
(Sewer)
Stephen Dessino
Superintendent of Sewer
127 Roosevelt Avenue
Plainfield, NJ 07060
908.226.2518 x252 (o)
848.565.7579 (m)
StephenD@pmua.org

2. NJ American Water (Water)
Melissa A. Hazelton
Engineering Specialist
One Water Street
Camden, NJ 08102
856.955.4403 (o)
melissa.hazelton@amwater.com

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4. PSE&G, Delivery & Construction (Electric)
Burk Lambertson
Sr Engineer Plant Supervisor
472 Weston Canal Rd
Somerset, NJ 08873
732.764.3160 (o)
Burk.LambertsonJr@pseg.com
5. PSE&G (Gas)
Charles Miracola
Sr. Project Manager - 3rd Party Relocation
4000 Hadley Road
South Plainfield, NJ 07080
908-412-2215 (o)
charles.miracola@pseg.com
6. Verizon (Telephone)
Steven Kallert
Engineer
290 W. Mt. Pleasant Ave
Livingston, NJ 07039
201.407.2752 (o)
steve.kallert@verizon.com

Bidders are advised to verify the above information and its accuracy, and the completeness is not guaranteed by the County.

C. Protection of Utilities.

THE SECOND PARAGRAPH IS CHANGED TO:

Protect and support existing County electrical and ITS facilities and ensure that there is no interruption of service. Use hand tools only while working within two feet of the fiber optic network. At least 30 days before beginning the work, submit a plan to the RE for approval showing the method of support and protection. When access to Traffic Operation Centers, communication hubs, ITS cabinets or any other ITS facilities is required to perform work, submit a request for access to ITS facilities. Ensure that the request for access is made at least five working days before any work is scheduled, using the online form as specified in the Special Provisions.

<http://www.state.nj.us/transportation/eng/elec/ITS/access.shtm>

THE FOURTH PARAGRAPH IS CHANGED TO:

Access within railroad right-of-way is restricted. Before beginning work within the railroad ROW or on railroad facilities, obtain the railroad's written approval for access, the method of construction, and the schedule of the work. Provide a copy of the submittal and approval to the RE. Comply with the railroad's requirements for working within the railroad right-of-way.

THE FOLLOWING IS ADDED TO THE SIXTH PARAGRAPH

Ensure that the work is performed following the railroad's access and safety restrictions.

105.11 CONSTRUCTION LAYOUT

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Perform a site investigation within the Project Limits to locate existing ROW markers, property markers, survey control markers, and monuments. Before beginning construction operations, protect ROW markers, property markers, survey control markers, and monuments from disturbance and destruction. Notify the RE of the location of property markers and monuments that are in danger of being removed or disturbed and tie to fixed points or locate from established contract control. Do not remove or disturb existing ROW markers, property markers, survey control markers, and monuments until obtaining RE approval. Record and provide a report of the findings of the site investigation to the RE.

Before removing a monument that is not owned by the County, notify the agency to which the monument belongs of the need to remove the monument. Provide the RE with copies of correspondence with the agency, as well as the agency's written requirements or guidelines for setting monuments.

If a monument or marker is disturbed or removed without RE approval, the Contractor is responsible for reimbursing the County for the cost to replace the monument.

Perform layout for the construction of the Contract using the control points and data shown on the Plans. Perform layout under the direct supervision of a licensed land surveyor. Preserve control points throughout the duration of the Project. Reset control points that are damaged, lost, displaced, or removed.

Before beginning construction operations, verify the vertical and horizontal controls provided in the Plans using, at a minimum, third-order, Class I accuracy procedural standards and equipment. Notify the RE in writing of discrepancies or errors and obtain resolution before proceeding with the work. Upon request, provide the RE with survey notes and calculations related to the field control verification.

Before beginning construction operations, establish lines for ROW, easement, and other restrictions, such as boundaries for environmentally sensitive areas to define the limits of construction and temporary operations. Establish limits of tree protection and other vegetation to be preserved. Do not encroach on private property, except as allowed by easements. Document existing site conditions, including vegetation, in areas to be used for excavation, temporary construction,

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storage, parking, movement of equipment, field office, etc. which will have to be later restored to pre-existing conditions. Provide documentation, including photographs, to the RE.

Provide the Utilities with the layout needed to install relocated utility facilities and coordinate the Work. Ensure that relocated facilities do not conflict with proposed construction, including High Voltage Proximity Act conflicts.

Establish the exact location of the Work from the control points. Reference the Work to baselines that are established from the control points. Maintain baselines until Completion.

Provide and maintain offset baseline stakes for roadways, ramps, jughandles, and turnarounds outside the limits of grading and construction. Set offset stakes at a maximum interval spacing of 50 feet. Where baselines have a radius of less than 475 feet, provide offset stakes at a maximum interval spacing of 25 feet. Identify and mark each stake to show the offset distance from the baseline and provide grade sheets to the RE showing the cut or fill to the finished profile lines with reference to the offset stakes. Provide grade sheets for construction of subbase that include calculations to establish the typical cross section from the profile grade stake. Provide adequate and accurate offset lines during construction that requires occupation of the baseline points by construction operations. Provide the RE with assistance as requested for verification of lines, grades, boundaries, dimensions, and elevations.

Construct the Work to the dimensions and tolerances noted within the Contract. Except where otherwise noted, construct subbase, base courses, pavements, and structures to within 1/4 inch of the elevations, stations and offsets noted in the Contract. If work does not conform to the tolerances allowed, the County may consider the work to not be in conformance with the work as specified in 105.03.

For each bridge and sign structure within the Project Limits, provide the RE as-built measurements of the minimum vertical underclearance at each lane line, shoulder line, curb line, and edge of pavement line under a structure to the nearest hundredth of a foot. For each bridge structure, provide vertical underclearance measurements at each fascia beam and the portions of the structure that govern the minimum vertical underclearance. Provide minimum vertical underclearance measurements prior to the completion of each stage of construction. Notify the RE in writing of any discrepancies, errors, or deviations from plan dimensions and clearances prior to opening any bridge or structure or any portion thereof to traffic.

Upon request, provide the RE with survey notes and calculations related to the alignment and horizontal and vertical control, and field notes to document the ROW, including easements and monument locations. Maintain survey notes in a bound field notebook in a professional manner.

The County will not make payment for survey, stakeout, and layout. The cost is to be distributed across the various items of work and to be included in extra work as may be added to the Contract.

If the County discovers survey errors, including errors that should have been detected during verification of controls provided in the plans, the County will deduct the costs of checking and correcting these errors from any money due to the Contractor.

SECTION 106 – CONTROL OF MATERIAL

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

For telecommunication and video surveillance services or equipment a certification is required to confirm that the telecommunication and video surveillance services or equipment are not from companies as listed in 2 CFR 200.216. Ensure that the certification includes the statement that all telecommunication and video surveillance services or equipment proposed in this project are not produced by companies as listed in 2 CFR 200.216.

106.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS

THE FIRST PARAGRAPH IS CHANGED TO:

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

Ensure that materials furnished for the Project are new, unless otherwise specified in the Contract. Comply with 2 CFR 200.323 – Procurement of recovered materials, ensuring that materials furnished for the Project contain, “the highest percentage of recovered materials practicable,” where the purchase price of the covered item listed exceeds \$10,000. Use materials that conform to the requirements of the Contract. When required by the Contract, use only products and suppliers listed on the QPL. Use sources of materials that have been approved by the County on a Materials Questionnaire as specified in 106.04.

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

For telecommunication and video surveillance services or equipment a certification is required to confirm that the telecommunication and video surveillance services or equipment are not from companies as listed in 2 CFR 200.216. Ensure that the certification includes the statement that all telecommunication and video surveillance services or equipment proposed in this project are not produced by companies as listed in 2 CFR 200.216.

106.02 DEPARTMENT-FURNISHED MATERIAL

106.03 FOREIGN MATERIALS

THE SUBSECTION HEADING IS CHANGED TO:

106.03 FOREIGN MATERIALS AND EQUIPMENT

2. Federal Aid Projects.

THE FOLLOWING IS ADDED:

Comply with the Infrastructure Investment and Jobs Act (“IIJA”), Pub. L. No. 117-58, which includes the Build America, Buy America Act (“the Act”). Pub. L. No. 117-58, §§ 70901-52. Comply with IIJA’s three categories: iron and steel, manufactured products, and construction materials:

- a. Ensure all iron and steel used in the project are produced in the United States. Ensure all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.
- b. Ensure all manufactured products as defined by IIJA are exempted from the Buy America requirements pursuant to 48 FR 50399 (1983) which excludes manufactured products from 23 CFR 635.410.
- c. Ensure all construction materials are manufactured in and manufacturing processes occurred in the United States. Construction materials includes an article, material, or supply - other than an item of primarily iron or steel; a manufactured product; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives – that is or consists primarily of non-ferrous metals, plastic and polymer-based products (including PVC, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber or drywall. Items that consist of two or more of the listed materials that have been combined through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials.

REMOVE SECTION 106.03.2 Federal Aid Projects

THE FOLLOWING IS ADDED TO THE END OF THE SUBSECTION:

Comply with 2 CFR 200.216 Prohibition on Certain Telecommunication and Video Surveillance Services or Equipment.

Do not provide Telecommunications equipment produced by Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities). Do not provide video surveillance and telecommunications equipment produced by Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities). Do not provide Telecommunications or video surveillance services provided by such entities or using such equipment.

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Do not provide Telecommunications or video surveillance equipment or services produced or provided by an entity that the Secretary of Defense, in consultation with the director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

Do not provide any equipment assembled by others that has an integral component that was manufactured and supplied by the aforementioned companies.

106.04 MATERIALS QUESTIONNAIRE

THE LAST SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

106.07 CERTIFICATION OF COMPLIANCE

106.07.01 Certification of Compliance

Submit manufacturer's Certifications of Compliance stating that the materials and/or assemblies fully comply with the requirements of the Contract when required by the Contract or requested by the County.

Ensure that Manufacturer's Certification of Compliance contains the following information:

1. Project Name.
2. Name of the Contractor.
3. Material description.
4. Quantity of material represented by the certification.
5. Means of identifying the consignment, such as label marking or seal number.
6. Date and method of shipment.
7. A statement that the material conforms to the Contract material requirements and that representative samples have been sampled and tested.
8. If the submission is for an assembly of materials, a statement that the assembly conforms to the Contract.
9. Signature of a person having legal authority to bind the supplier.
10. Typed or printed name of the person who signed the certification.

Before incorporating the materials into the Project, obtain 3 copies of the manufacturer's Certifications of Compliance for materials, components, and manufactured items that are accepted by certification. Retain 1 copy and submit 2 copies to the RE. With the Certification of Compliance, provide a transmittal identifying the Item for which it is submitted. For products that contain steel or iron, attach additional documents as required by the certification procedures as specified in 106.07.02. The Contractor may submit the Certifications of Compliance electronically to the RE in a scanned document. Include the transmittal and all backup documentation in the scanned document.

The County has the right to sample and test materials or assemblies accepted on the basis of Certifications of Compliance at any time. The County will reject materials or assemblies, whether in place or not, if found not to be in conformance with the Contract requirements.

The County will not make payment for an Item for which material is accepted on the basis of a Certification of Compliance until the RE has received the required Certification of Compliance and has inspected and accepted the material or assembly.

106.07.02 Certification for Iron and Steel

THE ENTIRE TEXT IS CHANGED TO:

- A. Precast Concrete Steel and Concrete Pipe Certification of Compliance.** For precast concrete and concrete pipe items, a Buy America Compliance Plan is required to confirm that the material meets the Buy America requirements as specified in 106.03. The ME will periodically audit compliance with the program at the precast plant. If the precast concrete item is not inspected by ME, submit a Certification of Compliance for the precast concrete item as required in 106.07.01. When a Certification of Compliance is submitted, ensure that the Certification of Compliance contains a statement that the reinforcing steel used in the precast concrete item complies with the Buy America requirements as specified in 106.03.

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B. Step Certification of Compliance. For products that contain steel or iron components and are not covered in 106.07.02.A, step Certification of Compliance is required to confirm that the item meets the Buy America requirements as specified in 106.03. A step certification is a process under which each handler (e.g., supplier, fabricator, manufacturer, processor, coating facility) of the iron and steel components certifies that the steel and iron components were of domestic origin and that their step in the process was domestically performed.

Every step in the process from melting to coating must be performed in the United States in order for the steel or iron component to be considered domestic and must be documented by step certification. If a domestic source for a steel or iron component cannot be found, submit a request for waiver to the County. Do not purchase non-domestic steel or iron components without the express written consent of the County.

Ensure that 3 copies of the Contractor's Certification of Compliance (Form DC-17) and the step Certifications of Compliance are provided for items containing steel or iron. Retain 1 copy and submit 2 copies to the RE. The Contractor may submit the DC-17 and the step certifications electronically in a scanned document.

Ensure that step Certifications of Compliance contain the following information:

1. Name of the Company supplying the material.
2. Name and location of the Company the material was shipped to.
3. Material description.
4. Quantity of material represented by the Certification.
5. Means of identifying the consignment, such as label marking or seal number.
6. Date and method of shipment.
7. A statement that the material conforms to the Contract material requirements and to the Buy America requirements in 106.03.
8. A statement that all steel or iron components in the material or assembly were "melted and manufactured in the US", unless there is non-domestic steel or iron in the material or assembly.
9. If there is non-domestic steel or iron in the assembly, describe in detail the non-domestic steel or iron material and the quantity. Attach a copy of the County's approval for the use of non-domestic steel or iron components.
10. Signature of a person having legal authority to bind the supplier.
11. Typed or printed name of the person who signed the certification.

The County will not make payment for work containing steel or iron materials until the RE has received the required DC-17 and step Certifications of Compliance, has inspected and accepted the material or assembly.

THE FIRST PARAGRAPH IS CHANGED TO:

Submit manufacturer's Certifications of Compliance stating that the materials and assemblies fully comply with the requirements of the Contract when required by the Contract or requested by the County, except for materials and assemblies that are temporary and not incorporated into the final construction and are not iron or steel such as sheeting and bridge assemblies. The State reserves the right to determine if a specific material or assembly meets this provision.

SECTION 107 – LEGAL RELATIONS

107.02 DISCRIMINATION IN EMPLOYMENT ON PUBLIC WORKS

THE TITLE AND ENTIRE SUBSECTION IS CHANGED TO:

107.02 NONDISCRIMINATION

It is the policy of the County that anyone performing work under any program, activity, or Contract with the County, shall not discriminate on the basis of race, creed, color, national origin, age, ancestry, nationality, marital or domestic partnership status, gender, disability, affectional or sexual orientation, gender identity or expression, religion, liability for military service, veteran's status, income level or ability to read, write or speak English.

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Pursuant to N.J.S.A. 10:2-1, the Contractor agrees that in the hiring of persons for the performance of work under the Contract or any subcontract, or for the procurement, manufacture, assembling, or furnishing of materials, equipment, supplies, or services to be acquired under the Contract, the Contractor, subcontractor, or any person acting on their behalf shall not discriminate against any person who is qualified and available to perform the work to which the employment relates by reason of race, creed, color, national origin, age, ancestry, marital or domestic partnership status, gender, disability, liability for military service, veteran's status, or affectional or sexual orientation.

The Contractor, subcontractor, or any person acting on their behalf shall not, in any manner, discriminate against or intimidate any employee engaged in the performance of the Work under the Contract or any subcontract hereunder, or engaged in the procurement, manufacture, assembling, or furnishing of any such materials, equipment, supplies, or services to be acquired under such Contract, by reason of race, creed, color, national origin, age, ancestry, nationality, marital or domestic partnership status, gender, disability, liability for military service, veteran's status, or affectional or sexual orientation.

The County has the right to deduct a penalty of \$50 for each person for each day that the person is discriminated against or intimidated in violation of the provisions of the Contract pursuant to N.J.S.A. 10:2-1. The County has the right to terminate the Contract, and any monies due the Contractor under the Contract may be forfeited, for any violation of this Subsection occurring after notice to the Contractor from the County of any prior violation of this Subsection.

Standard Title VI Assurance. During the performance of this Contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor"), in accordance with Title VI /Nondiscrimination Assurance – Appendix A, USDOT Order 1050.2A agrees as follows:

- 1. Compliance with Regulations:** The Contractor will comply with the Acts and Regulations relative to Nondiscrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which herein incorporated by reference and made a part of this Contract.
- 2. Nondiscrimination:** The Contractor, with regard to the Work performed by it during the Contract, will not discriminate on the grounds race, creed, color, national origin, age, ancestry, nationality, marital or domestic partnership status, gender, disability, affectional or sexual orientation, gender identity or expression, religion, liability for military service, veteran's status, income level or ability to read, write or speak English in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The Contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and Regulations, including employment practices when the Contract covers any activity, project, or program set forth in Appendix B of 49 CFR Part 21.
- 3. Solicitations for Subcontracts, Including Procurement of Materials and Equipment:** In all solicitations, either by competitive bidding, negotiation made by the Contractor for Work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the Contractor of the Contractor's obligations under this Contract and the Acts and Regulations relative to nondiscrimination on the grounds of race, creed, color, national origin, age, ancestry, nationality, marital or domestic partnership status, gender, disability, affectional or sexual orientation, gender identity or expression, religion, liability for military service, veteran's status, income level or ability to read, write or speak English.
- 4. Information and Reports:** The Contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the FHWA, to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a Contractor is in the exclusive possession of another who fails or refuses to furnish the information, the Contractor will so certify to the Recipient or the FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.
- 5. Sanctions for Non-Compliance:** In the event of a Contractor's noncompliance with the Nondiscrimination provisions of this Contract, the Recipient will impose such Contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

1. Withholding payments to the Contractor under the Contract until the Contractor complies; and/or
2. Cancelling, terminating, or suspending a Contract, in whole or in part.

6. Incorporation of Provisions: The Contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The Contractor will take action with respect to any subcontract or procurement as the Recipient or the FHWA may direct as a means of enforcing such provisions including sanctions for non-compliance. Provided, that if the Contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the Contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the Contractor may request the United States to enter into the litigation to protect the interest of the United States.

During the performance of this Contract, the Contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "Contractor") in accordance with the Title VI /Nondiscrimination Assurance – Appendix E, USDOT Order 1050.2A, agrees to comply with the following nondiscrimination statutes and authorities; including but not limited to:

1. Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252); and 49 CFR Part 21.
2. The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601);
3. Section 162(a) of the Federal Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.);
4. Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended; and 49 C.F.R. Part 27;
5. The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.);
6. Airport and Airway Improvement Act of 1982, (49 U.S.C. § 471, Section 47123), as amended;
7. The Civil Rights Restoration Act of 1987, (PL 100-209);
8. Title II and III of the Americans with Disabilities Act (42 U.S.C. § 12131- - 12189) as implemented by Department of Transportation regulations at 49 C.F.R. parts 37 and 38;
9. The Federal Aviation Administration's Nondiscrimination statute (49 U.S.C. § 47123);
10. Executive Order 12898, Federal Actions to address Environmental Justice in Minority Populations and Low Income Populations;
11. Executive Order 13166, Improving Access to services for Persons with Limited English Proficiency (70 Fed. Reg. at 74087 to 74100);
12. 23 CFR Part 230 (EEO, Affirmative Action & OJT)
13. 49 CFR Part 26
14. Executive Order 11246 as amended
15. Section 503 of the Rehabilitation Act of 1973 as amended
16. Section 4212 of the Vietnam Era Veteran's Readjustment Assistance Act, as amended
17. New Jersey Statutes N.J.S.A. 10:5-31 et seq.
18. New Jersey P.L. 1975 Chapter 27

107.03 AFFIRMATIVE ACTION, DISADVANTAGED BUSINESS ENTERPRISES, OR EMERGING SMALL BUSINESS ENTERPRISE

THE TITLE AND ENTIRE SUBSECTION IS CHANGED TO:

107.03 AFFIRMATIVE ACTION, DISADVANTAGED BUSINESS ENTERPRISES OR EMERGING SMALL BUSINESS ENTERPRISES, AND SMALL BUSINESS ENTERPRISES

It is the public policy of the State and of the United States that no individual, group, firm, corporation or joint venture working on or seeking to work on a Public Works Project should be discriminated against on the basis of race, creed, color, national origin, age, ancestry, nationality, marital or domestic partnership status, gender, disability, liability for military service, affectional or sexual orientation, atypical cellular or blood trait, or genetic information (including the refusal to submit to genetic testing). The County has developed Affirmative Action, Disadvantaged Business Enterprise, or Emerging Small Business Enterprise Programs to implement this policy, and the regulations and requirements applicable to the Contract are contained in the Special Provisions. The County will resolve conflicts between these regulations and requirements and the other provisions of the Contract to further the above stated public policy.

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Contract Assurance. The Contractor, sub-recipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the Contractor to carry out these requirements is a material breach of this Contract, which may result in the termination of this contract or such other remedy as the County deems appropriate, which may include, but is not limited to:

1. Withholding monthly progress payments;
2. Assessing sanctions;
3. Liquidated damages; and/or
4. Disqualifying the Contractor from future bidding as non-responsive.

107.04 NEW JERSEY CONTRACTUAL LIABILITY ACT

THE FOURTH PARAGRAPH IS CHANGED TO:

For purposes of determining the date of “completion of the contract” pursuant to N.J.S.A. 59:13-5, “completion of the contract” occurs on the date that the Contractor provides written notice to the County of acceptance of the Proposed Final Certificate or conditional acceptance of the Proposed Final Certificate or the 30th day after the County issues the Proposed Final Certificate, whichever event occurs first.

107.09 INDEPENDENT CONTRACTOR

THE ENTIRE SUBSECTION IS CHANGED TO:

The relationship of the Contractor to the State is that of an independent contractor. Conduct business consistent with such status. Do not hold out or claim to be an officer or employee of the County by reason hereof. Do not make a claim, demand, or application to or for the rights or privileges applicable to an officer or employee of the County, including, but not limited to, Workers Compensation Insurance, unemployment insurance benefits, social security coverage, or retirement membership or credit.

107.11 RISKS ASSUMED BY THE CONTRACTOR

107.11.02 General Insurance

B. Types

1. Comprehensive General Liability Insurance.

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

2. Comprehensive Automobile Liability Insurance.

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

5. Excess Liability Insurance.

THE FOLLOWING IS ADDED:

Ensure the policy names JCP&L, its officers, employees, and agents as additional insured.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

107.12 THE CONTRACTUAL CLAIM RESOLUTION PROCESS

REPLACE THIS SECTION WITH: This section intentionally left blank.

107.12.01 Satisfying the Notice Requirements

THE SECOND SENTENCE OF THE SECOND PARAGRAPH IS CHANGED TO:

Upon request, provide the RE with 5 copies of all documentation submitted in support of the claim.

107.13 LITIGATION OF CLAIMS BY THE CONTRACTOR

REPLACE THIS SECTION WITH: The County will not participate in litigation between the RE and the Contractor.

107.14 PATENTED DEVICES, MATERIALS, AND PROCESSES

REMOVE THE SECOND PARAGRAPH OF THIS SECTION

THE FOLLOWING IS ADDED

Observe 37 CFR Part 401, “Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts, and Cooperative Agreements” and any implementing regulations set forth by the USDOT, FHWA or FAA if State contract is for the performance of experimental, developmental, or research work funded under a Federal Aid Project.

107.15 TAXES

REVISE THE THIRD SENTENCE OF THE FIRST PARAGRAPH OF THIS SECTION TO: The sales tax exemption does not apply to equipment used for Contract work.

107.17 COMMUNICATION WITH THE NEWS MEDIA

Do not communicate with the news media or issue a news release without obtaining a prior written approval from the County.

SECTION 108 – PROSECUTION AND COMPLETION

108.01 SUBCONTRACTING

REMOVE SENTENCE FOUR OF PARAGRAPH TWO OF THIS SECTION.

THE FOLLOWING PARAGRAPH IS ADDED BEFORE THE FIRST PARAGRAPH:

Do not discriminate on the grounds of race, creed, color, national origin, age, ancestry, nationality, marital/domestic partnership/civil union status, gender, disability, religion, affectional or sexual orientation, gender identity or expression, family status, atypical cellular or blood trait, genetic information, military service, or veterans status, in the selection and retention of subcontractors, including procurement of materials and leases of equipment. In all solicitations, either by competitive bidding, or negotiation made by the Contractor for work to be performed under a subcontract, including procurement of materials, or leases of equipment, each potential subcontractor or firm will be notified by the Contractor of the Contractor’s obligations under this Contract and the Acts and Regulations relative to Nondiscrimination.

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THE FOLLOWING IS ADDED AFTER THE THIRD SENTENCE IN THE FIRST PARAGRAPH:

Ensure that DBEs/ESBEs have an equal opportunity to receive and participate in the performance of contracts and subcontracts financed in whole or in part with Federal funds in performing work with the County. Ensure that SBEs have an equal opportunity to receive and participate in the performance of contracts financed in whole with State funds in performing work with the County.

THE FOLLOWING IS ADDED AFTER THE FIRST PARAGRAPH:

On wholly state funded projects, the Contractor shall not terminate a SBE subcontractor, lower tier SBE subcontractor, SBE transaction expeditor, SBE regular dealer, SBE manufacturer and SBE trucker, or an approved substitute SBE firm, without prior written consent of DCR/AA. Prior to replacement of the SBE firm, the Contractor shall in writing, notify the SBE firm and the DCR/AA of its intent to terminate and/or substitute a SBE firm, and the reason for the request. The Contractor must give the SBE 5 days to respond to the Contractor's notice and advise the County and the Contractor of reasons why, if any, it objects to the proposed termination of its subcontract and why the County should not approve the Contractor's action. If required in a particular case as a matter of public necessity (e.g., safety), the DCR/AA may provide a response period shorter than 5 days. At the time the Contractor requests termination or replacement of a SBE firm, the Contractor must submit documentation to the DCR/AA of its good faith efforts if they are replacing the terminated SBE firm with a non-SBE firm. The DCR/AA must approve the termination and substitution of all SBE subcontractors, lower tier subcontractors, transaction expeditors, regular dealers, suppliers, manufacturers and truckers. The Contractor needs to show they began good faith efforts to replace with another SBE well in advance of the request to terminate or substitute. The County's DCR/AA has sole authority to approve the termination, replacement or substitution of SBE subcontractors, lower tier subcontractors, transaction expeditors, regular dealers, suppliers, manufacturers and truckers.

1. Values and Quantities.

THE FOLLOWING IS ADDED TO THE FIRST PARAGRAPH:

a.

There are no Specialty Items in this Project.

108.02 COMMENCEMENT OF WORK

THE THIRD PARAGRAPH IS CHANGED TO:

Do not perform construction layout and FIELD OFFICE TYPE ____ SET UP until the County has approved the insurance certificates and the safety program. Do not begin other construction operations until after the following actions:

1. A preconstruction conference with the County has been held.
2. Approval of the progress schedule as specified in 153.03.02.
3. The field office has been established.
4. The ROW limits, limits of construction, environmentally restricted areas, and trees or other vegetation designated to be preserved have been laid out.

THE SUBPART 4 IN THE FIRST PARAGRAPH IS CHANGED TO:

4. Progress schedule as specified in 153.03

108.06 NIGHT OPERATIONS

2. Visibility Requirements for Workers and Equipment.

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that workers wear a 360° high-visibility retroreflective safety garment meeting ANSI/ISEA Class 3, Level 2 standards.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

108.07.01 Interference

THE SECOND PARAGRAPH IS CHANGED TO:

Schedule and perform the Work so that successive construction operations and lane or roadway openings follow preceding operations as closely as possible. Limit work zones according to the Special Provisions. Confine construction operations adjacent to traffic to one side of the roadway at a time unless otherwise specified by the Contract. Where the Work is performed in stages adjacent to traffic, ensure that the road opened to traffic adequately accommodates traffic. Do not interfere with existing traffic access, except when required to perform the Work or as approved by the RE.

108.07.02 Changes to the Traffic Control Plan (TCP)

THE FIRST SENTENCE IN THE FIRST PARAGRAPH IS CHANGED TO:

Submit requests for changes to the TCP to the RE for approval at least 30 days before the change is needed.

108.08 LANE OCCUPANCY CHARGES

THIS SUBSECTION IS DELETED.

108.10 CONTRACT TIME

THE FOLLOWING IS ADDED:

- B. Complete all work required for Substantial Completion in 334 calendar days.
- C. Achieve Completion in 354 calendar days.

108.11.01.B.3

THE FOLLOWING SUBSECTIONS ARE CHANGED TO:

1. **Excusable, Compensable Delays.** Excusable, compensable delays are delays that are the County's fault or responsibility. For excusable, compensable delays, the County will grant an extension of Contract Time and will make payment for delay damages.
4. **Concurrent Delays.** Concurrent delays are separate delays on the critical path that occur at the same time. When an excusable, non-compensable delay is concurrent with an excusable, compensable delay, the County will grant an extension of Contract Time but will not make payment for delay damages. When a non-excusable delay is concurrent with an excusable delay, the County will not grant an extension of Contract Time or make payment for delay damages.

108.11.01

108.11.01.A

REVISE THE SECOND PARAGRAPH TO:

The County will not extend Contract Time due to Extra Work or other type of delay unless an approved progress schedule and updates are current as specified in 153.03. The County will not make payment for delay damages, unless an approved progress schedule and updates are current as specified in 153.03.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

B. Types of Delays.

1. Non-Excusable Delays.

THE FOLLOWING IS ADDED:

For work performed by Utilities, delays up to 30 percent of the estimated duration specified in 105.07.02 are considered non-excusable. The duration includes both the advance notice and the completion of the work by the Utility.

For delays caused by Railroads, delays up to 30 percent of the estimated availability specified in 105.07 are considered non-excusable.

2. Excusable, Non-Compensable Delays.

b. Utilities.

THE LAST PARAGRAPH IS CHANGED TO:

If approved excusable, non-compensable delays exceed a total of 90 days, the time in excess of 90 days will become excusable and compensable as specified in 108.11.01.B.3.

CHANGE SECTION **108.11.01.B.3** TO:

3. Excusable, Compensable Delays. Excusable, compensable delays are delays that are the County's fault or responsibility. For excusable, compensable delays, the County will grant an extension of Contract Time and will make payment for delay damages.

CHANGE SECTION **108.11.01.B.4** TO:

4. Concurrent Delays. Concurrent delays are separate delays on the critical path that occur at the same time. When an excusable, non-compensable delay is concurrent with an excusable, compensable delay, the County will grant an extension of Contract Time but will not make payment for delay damages. When a non-excusable delay is concurrent with an excusable delay, the County will not grant an extension of Contract Time or make payment for delay damages.

THE FOLLOWING SUBSECTION IS CHANGED TO:

C. Submitting Time Impact Evaluation. If an excusable delay occurs, notify the RE, detailing how the event or cause is affecting the approved progress schedule that is current at the time the delay occurred. When the full extent of the impact on the approved progress schedule can be determined, submit a request for an extension of Contract Time to the RE with a Time Impact Evaluation Form and a CPM fragnet diagram including all additional work, and the fragnet's relationship to the approved progress schedule that is current at the time the delay occurred. Clearly identify how each change or delay is represented by an activity or group of activities. Ensure that the fragnet shows logic revisions, duration changes, and new activities, including the predecessor and successor relationships.

The Contractor is considered to have waived its rights to claim an extension of Contract Time if the Contractor fails to provide written notice or fails to provide the time impact evaluation.

The RE will evaluate the time impact evaluation. The County will only extend Contract Time when delay causes the work to be extended beyond the scheduled Contract Time as specified in 108.10. If the Contractor is already behind schedule and an excusable delay delays the work beyond the Contract Time as specified in 108.10, the County will only extend Contract Time for the amount of time that directly results from the excusable delay. If the County

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determines that an extension of Contract Time is warranted, the County will extend Contract Time by a Change Order.

For excusable, compensable delays, submit a request for and documentation supporting the entitlement to compensable delay damages associated with the delay.

108.14 DEFAULT AND TERMINATION OF CONTRACTOR'S RIGHT TO PROCEED

LIST ITEM (1) OF THE FIRST PARAGRAPH IS CHANGED TO:

1. Fails to begin construction operations within 40 days of execution of the Contract.
2. Fails to comply with Contract requirements regarding minimum wage payments, 49 CFR Part 26 et seq., the DBE program requirements, SBE program requirements, and equal employment opportunity requirements

THE FOLLOWING IS ADDED AFTER THE 2ND PARAGRAPH:

If the County directs the Surety to complete the Contract, and the Surety elects to use a completion-contractor to perform the Work, the Surety must promptly submit to the County a request for approval of the proposed completion-contractor as a subcontractor as per Section 108.01. The County has the right to reject a request by the Surety to use the Contractor as the completion-contractor, either directly or under the direction of a consultant to the Surety. In addition, the County has the right to reject a request by the Surety to contract with employees of the Contractor, directly or under the direction of a consultant to the Surety, to complete the Contract. The County's right to reject contained in this paragraph is based on the sole discretion of the County.

108.15 TERMINATION OF CONTRACT

108.15.02 For Cause

THE FIFTH PARAGRAPH IS CHANGED TO:

The County will not make payment for profit and overhead not included in the Contract price for Items for work completed or partially completed except that the County may make payment for profit and overhead on work.

108.19 COMPLETION AND ACCEPTANCE

THE FOLLOWING IS ADDED:

No Incentive Payment for Early Completion is specified for this project.

108.20 LIQUIDATED DAMAGES

THE FOLLOWING IS ADDED:

Liquidated damages are as follows:

- A. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Interim Completion, the County will assess liquidated damages in the amount of \$500/day.
- B. For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion, the County will assess liquidated damages in the amount of \$500/day.

For each day that the Contractor fails to complete the work as specified in Subsection 108.10 of these Special Provisions, for Substantial Completion but has completed the work as specified for Full Traffic Access, the County will assess liquidated damages in the amount of \$500/day.
- C. For each day that the Contractor fails to achieve Completion as specified in Subsection 108.10 of these Special Provisions, the County will assess liquidated damages in the amount of \$500/day.

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SECTION 109 – MEASUREMENT AND PAYMENT

109.01 MEASUREMENT OF QUANTITIES

THE SECOND PARAGRAPH IS CHANGED TO:

The County will designate Items as Measured Items or as Proposal Items by having a suffix of M or P in the Item number respectively. The County will measure quantities of Measured Items for payment.

THE LAST PARAGRAPH IS CHANGED TO:

The County does not typically measure quantities for Proposal Items, except quantities designated on the Plans as “if and where directed,” for payment. The Contractor or the RE can measure Proposal Items for payment. If making a measurement for a change in payment, submit drawings, calculations, and other information demonstrating the as-built quantity to the party not initiating measurement. If the difference between the measured quantity and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the County will make payment based on the Contract quantity. If the difference is more than 10 percent of the Contract quantity, the County will make payment based on the measured quantity. For each Item that the Contractor requests a Proposal Item be measured, and it is determined that the difference between the quantity measured and the Contract quantity is less than or equal to 10 percent of the Proposal quantity, the County will deduct \$500.00. The County will measure quantities for Proposal Items that are designated on the Plans as “if and where directed” for payment when the RE directs work using the “if and where directed” quantity.

109.02 SCOPE OF PAYMENT

THE THIRD SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

The County will not make additional or separate payment for work or portion of work unless specifically provided for in the “Measurement and Payment” Subsection.

REVISE THE ENTIRE TEXT OF SECTION 109.03 TO THE FOLLOWING:

109.03 PAYMENT FOR FORCE ACCOUNT

This section intentionally left blank.

109.03 PAYMENT FOR FORCE ACCOUNT

This section intentionally left blank.

109.04 PAYMENT FOR DELAY DAMAGES

THE FIRST SENTENCE IS CHANGED TO:

For eligible extensions, the County will make payment for the costs allowed based on the following documentation submitted by the contractor:

109.05 ESTIMATES

THE FOURTH PARAGRAPH IS CHANGED TO:

The RE will provide a summary of the Estimate to the Contractor. Before the issuance of each payment, certify, on forms provided by the County, whether:

A. On Federally Funded Projects

1. No subcontractor or supplier was used on the project; or
2. Each subcontractor and supplier used on the project has been paid the amount due, from the previous progress payment; retainage is not being held, and

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3. Each subcontractor and supplier used on the project will be paid the amount due from the current progress payment, for the subcontractor or supplier's work that was paid by the County; or
4. There exists a valid basis under the terms of the subcontractor's or supplier's contract to withhold payments from the subcontractor or supplier. Therefore, the subcontractors and suppliers listed on the DL-72 Contractor Certification of Payment to Subcontractors and Suppliers have not been paid for work performed or materials supplied to the project from the proceeds of the previous progress payment or will not be paid for work performed or materials supplied to the project from the proceeds of the current progress payment, or both.

THE EIGHTH PARAGRAPH IS CHANGED TO:

From the total Estimate amount, excluding amounts for subcontracted work on Federal aid projects, the County will deduct and retain 2 percent until Substantial Completion.

THE TENTH PARAGRAPH IS CHANGED TO:

The RE has the right to not process an Estimate when, in the judgment of the RE, the Work is not performed or proceeding as specified in the Contract or following the County giving the Contractor and Surety notice of default as specified in 108.14.

THE TWELFTH PARAGRAPH IS CHANGED TO:

The County will deduct and withhold 2 percent in retainage from the total Estimate amount for State Funded Projects. On State Funded Projects, the Contractor may not withhold subcontractor retainage that exceeds the amount of retainage that the County withholds from the Contractor.

Regarding Federally Funded Projects, the County will deduct and withhold 2 percent in retainage from the total Estimate amount, excluding amounts for subcontracted work, until Substantial Completion. Pursuant to 49 C.F.R. § 26.29(b)(1), the Contractor may not withhold retainage from a subcontractor on Federally Funded Projects.

THE THIRTEENTH PARAGRAPH IS CHANGED TO:

In the first Estimate following installation of all landscape work, the County will reduce the retainage withheld to 1 percent of the Total Adjusted Contract Price, excluding subcontracted work on Federal Aid Projects, unless it has been determined by the County that the withholding of additional retainage is required. If retainage is held in cash withholdings, the reduction is to be accomplished by payment under the next Estimate. If retainage is held in bonds, the County will authorize a reduction in the escrow account.

109.06 MATERIALS PAYMENTS AND STORAGE

THE SUBSECTION IS CHANGED TO:

The Contractor may request payment for the cost of materials, including the storage cost, not incorporated into the Work. If approved by the RE, the County will make payment for the cost of materials, including storage costs if such payment exceeds \$25,000.00; however, the amount of payment may not exceed 85 percent of the bid price for the associated Item. The County may also direct the Contractor to purchase materials ahead of schedule for this purpose. The County will not make payment for such materials until the RE is satisfied that:

1. The Contractor has properly stored and protected materials within the Project Limits or at locations owned or leased by the Contractor or the County within the State, except that the Contractor may store structural steel outside the State with the prior approval of the County. Provide and comply with manufacturers', suppliers', and fabricators' storing and handling recommendations for each material, as specified in 108.04.
2. The ME has inspected the materials and they appear to be acceptable based upon available supplier's certification and materials test reports.

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3. The Contractor has provided the RE with the paid invoice or paid bill of sale for the materials and a fully executed Release of Liens for Materials Stored for Incorporation in Department of Transportation Project Form, including the transfer of ownership to the County.
4. For material stored on property not belonging to the County, the material is stored in a fenced area with access limited to the County and the Contractor. Additionally, the Contractor has posted a sign at the location clearly identifying, and printed in large letters, that the materials are without encumbrances and are to be solely used for the Project.
5. When materials are stored in a leased area, the lease is made out to the Contractor and provides that it shall be canceled only with the written permission of the County. Submit a copy of the lease to the RE.

Payment for materials does not constitute County approval or Acceptance of the materials or work. If materials paid for are damaged, stolen, or prove to be unacceptable, the County has the right to recover the costs from the Contractor. Stored materials are not to be removed from storage except for incorporation into the project. The County will not make payment for plant materials until they are planted or installed.

109.07 BONDS POSTED IN LIEU OF RETAINAGES THE FIRST PARAGRAPH IS CHANGED TO:

The Contractor may deposit negotiable bonds of the State or any of its political subdivisions, which have been approved by the County, in an escrow account to secure release of all or a portion of the retainage withheld as specified in [109.05](#). Establish the account under the provisions of an escrow agreement to be entered into between the Contractor, the County, and a bank located in the State that is an authorized depository with a trust department. Pay the charges of the bank for services rendered according to the terms and conditions of the escrow agreement.

THE FOLLOWING IS ADDED:

Pursuant to N.J.S.A. 52:15C-14(d), relevant records of private vendors or other persons entering into contracts with the County are subject to audit or review by the New Jersey Office of the State Comptroller. Therefore, the Contractor shall maintain all documentation related to products, transactions or services under the Contract for a period of five years from the date of final payment. Such records shall be made available to the New Jersey Office of the State Comptroller upon request.

109.09 AUDITS

THE FIRST SENTENCE IS REVISED TO:

All claims filed are subject to audit at any time following the filing, whether or not part of a suit pending in the courts of this State pursuant to N.J.S.A. 59:13-1, et seq.

109.11 FINAL PAYMENT AND CLAIMS

THE FOURTH PARAGRAPH IS CHANGED TO:

Include in the release the specific monetary amounts and the specific nature of the claims being reserved. Failure to state specific monetary amounts and the specific nature of the claim shall result in a waiver of such claims. The Contractor may reserve only those claims properly filed with the County and not previously resolved. The Contractor waives all claims for which the required notice has not been filed with the County.

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DIVISION 150 – CONTRACT REQUIREMENTS

SECTION 152 – INSURANCE

152.04 MEASUREMENT AND PAYMENT

THE FOLLOWING PAY ITEM IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
OWNER’S AND CONTRACTOR’S PROTECTIVE LIABILITY INSURANCE	DOLLAR

SECTION 153 – PROGRESS SCHEDULE

153.03 PROCEDURE

THE FOLLOWING IS ADDED:

The Contractor agrees that he shall have no right to nor shall he make any claim whatsoever for damage or additional compensation by reason of the RE revising the maintenance of traffic control plans. Time may, however, be granted if appropriate.

153.03.01 CPM PROGRESS SCHEDULE

REVISE THE SIXTH PARAGRAPH TO:

The progress schedule does not constitute notice and does not satisfy the notice requirements. Approval of the schedule by the RE does not modify the contract or constitute acceptance of the feasibility of the contractor’s logic, activity durations, or assumptions used in creating the schedule. If the schedule reflects a completion date different than that specified in 108.10, this does not change the specified completion date. If the re approves a schedule that reflects a completion date earlier than that specified as the contract time, the County will not accept claims for additional contract time or compensation as the result of failure to complete the work by the earlier date shown on the CPM schedule. Float is the amount of time that an activity may be delayed from its early start without delaying completion. Float belongs to the project and is not for the exclusive use of the contractor or the County.

153.03.03 BAR CHART PROGRESS SCHEDULE UPDATE

REVISE THE THIRD PARAGRAPH TO:

Approval of the schedule by the RE does not modify the Contract or constitute Acceptance of the feasibility of the Contractor’s logic, activity durations, or assumptions used in creating the schedule. The progress schedule does not constitute notice and does not satisfy the notice requirements. Provide 3 color paper copies of a bar chart progress schedule or similar type that is acceptable to the RE for approval as follows:

THE FOLLOWING SECTION IS DELETED:THE FOLLOWING SECTION IS DELETED

SECTION 155 – CONSTRUCTION FIELD OFFICE

THE FOLLOWING SECTION IS DELETED:

SECTION 156 – MATERIALS FIELD LABORATORY AND CURING FACILITY

SECTION 159 – TRAFFIC CONTROL

159.02.02 Equipment

THE FOLLOWING IS ADDED TO THE LIST OF EQUIPMENT REFERENCES:

Portable Variable Message Sign w/Remote Communication.....	1001.04
Portable Trailer Mounted CCTV Camera Assembly.....	1001.05

159.03.01 Traffic Control Coordinator

THE FIRST PARAGRAPH BEFORE THE LIST IS CHANGED TO:

Before starting Work, submit to the RE the name, training, work experience, and contact information of an employee assigned as the on-site Traffic Control Coordinator (TCC). The TCC must be certified as having successfully completed the Rutgers CAIT Traffic Control Coordinator Program, or an equivalent course as approved by the NJDOT Office of Capital Project Safety. The TCC must also successfully complete an approved Traffic Coordinator refresher course every 2 years. The TCC is a full-time position and the employee designated as TCC must be available on a 24 hour a day, 7 days a week basis. The TCC shall have the responsibility for and authority to implement and maintain all traffic operations for the Project on behalf of the Contractor. Ensure that the TCC is present at the work site at all times while the Work is in progress. The TCC's responsibilities and duties shall include the following:

159.03.02 Traffic Control Devices

THE FIRST PARAGRAPH IS CHANGED TO:

Ensure that FHWA category 1, 2, 3, and 4 traffic control devices (TCDs) conform to the requirements of the 2016 Edition of the Manual for Assessing Safety Hardware (MASH), except that TCDs manufactured on or before December 31, 2019 must have been purchased by the Contractor on or before December 31, 2019, and conform to the requirements of NCHRP 350, MASH 2009, or MASH 2016. Provide each device's applicable MASH 2016, MASH 2009, or NCHRP 350 test results and FHWA Eligibility letter, if issued by the FHWA, to the RE. Provide the RE with the purchase date certification for devices not meeting the MASH 2016 requirements upon delivery to the site. Ensure that traffic control devices meet or exceed an acceptable condition as described in the ATSSA guide Quality Standards for Work Zone Traffic Control Devices. Traffic control devices need not be new but must be in good condition. Provide traffic control devices according to MUTCD.

2. Construction Barrier Curb.

THE SECOND PARAGRAPH IS CHANGED TO:

At least 30 days before delivering construction barrier curb to the Project Limits, provide the RE notice that the barrier curb is available for inspection. Ensure the barrier curb is not stacked for this inspection. The RE will inspect the barrier curb, along with a Contractor representative, to determine what pieces are not approved for delivery to the Project Limits. Final determination of construction barrier approval will be made at the time of placement at the Project.

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THE FOLLOWING SUBSECTION IS DELETED:

159.03.06 Traffic Stripes, Latex, Traffic Marking Lines, Latex, and Traffic Markings Symbols, Latex

THE FOLLOWING SUBSECTION IS ADDED:

159.03.06 Temporary Traffic Stripes, Traffic Stripes, Latex, Traffic Marking Lines, Latex, and Traffic Markings Symbols, Latex

Apply latex traffic stripes and latex markings when they are required for 14 days or less. Apply epoxy traffic stripes and thermoplastic markings as specified in 610.03.01 and 610.03.02 when they are required for more than 14 days. Apply latex traffic stripes and latex markings when the ambient and surface temperatures are at least 45 °F and rising and the surface temperature is no more than 140 °F. Apply the latex paint in a wet film thickness of 6 ± 1 mil. Apply glass beads to the wet paint in a uniform pattern and at the rate of 12 pounds per gallon of paint.

159.04 MEASUREMENT AND PAYMENT

THE FOLLOWING PAY ITEMS ARE ADDED:

<i>Item</i>	<i>Pay Unit</i>
TEMPORARY TRAFFIC STRIPES, __”	LINEAR FOOT

THE FOLLOWING IS ADDED AFTER THE SECOND PARAGRAPH:

The County will measure TEMPORARY TRAFFIC STRIPES, TRAFFIC STRIPES, LATEX, and TRAFFIC MARKINGS LINES, LATEX by the linear foot for each specified width of stripe. The County will not measure gaps in striping.

SECTION 160 – PRICE ADJUSTMENTS

160.03.01 Fuel Price Adjustment

THE FIFTH PARAGRAPH IS CHANGED TO:

The County will calculate fuel price adjustment on a monthly basis using the following formula:

$$F = (MF - BF) \times G$$

Where:

- F = Fuel Price Adjustment
- MF = Monthly Fuel Price Index for work performed from the first day of the month to the last day of the month for the month prior to the estimate cutoff date
- BF = Basic Fuel Price Index
- G = Gallons of Fuel for Price Adjustment

THE SEVENTH PARAGRAPH IS CHANGED TO:

The basic fuel price index is the previous month’s fuel price index before receipt of bids. The County will use the fuel price index for the month before the regular monthly estimate cutoff date as the Monthly Fuel Price Index for work performed in the previous calendar month. If the Monthly Fuel Price Index increases by 50 percent or more over the Basic Fuel Price Index, do not perform any work involving Items listed in Table 160.03.01-1 without written approval from the RE.

160.03.02 Asphalt Price Adjustment

THE THIRD PARAGRAPH IS CHANGED TO:

The County will calculate the asphalt price adjustment by the following formula:

$$A = (MA - BA) \times T$$

Where:

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A = Asphalt Price Adjustment

MA = Monthly Asphalt Price Index for work performed from the first day of the month to the last day of the month for the month prior to the estimate cutoff date

BA = Basic Asphalt Price Index

T = Tons of New Asphalt Binder¹

1. The County will determine the weight of asphalt binder for price adjustment by multiplying the percentage of new asphalt binder in the approved job mix formula by the weight of the item containing asphalt binder. If a Hot Mix Asphalt Item has a payment unit other than ton, the County will apply an appropriate conversion factor to determine the number of tons of asphalt binder used.

THE SIXTH PARAGRAPH IS CHANGED TO:

The basic asphalt price index is the asphalt price index for the month before the opening of bids. The County will use the asphalt price index for the month before the regular monthly estimate cutoff date as the monthly asphalt price index for work performed in the previous calendar month.

DIVISION 200 – EARTHWORK

SECTION 201 – CLEARING SITE

201.03.01 Clearing Site

THE FOLLOWING IS ADDED:

I. Sign Removal. Remove existing sign panels, posts, and foundations where directed on the plans. Ensure no hole is left behind from the post or foundation. Coordinate with the RE before removing, relocating or replacing NJ Transit signs.

201.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

The County will not make payment for the Item CLEARING SITE in excess of \$5,000 until Completion.

DIVISION 400 – PAVEMENTS

SECTION 401 – HOT MIX ASPHALT (HMA) COURSES

401.03.01 Milling

A. HMA Milling.

Stage	Max. Time Interval Allowed
ALL	72 Hours

401.03.07 HMA Courses

D. Transportation and Delivery of HMA.

THE SECOND SENTENCE OF THE FIRST PARAGRAPH IS CHANGED TO:

Do not allow trucks to leave the plant within 1 hour of sunset unless lighting for night operations is provided as specified in 108.06.

G. Opening to Traffic.

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed and rumble strips are constructed within 14 days of opening each day's surface paving to traffic.

H. Air Void Requirements

FOR LOCAL AID PROJECTS, THIS SUBSECTION IS REPLACED BY THE FOLLOWING.

Pavement lots are defined as approximately 15,000 square yards of pavement in Surface area. If pavement lot area is less than 5000 square yards, the District Local Aid Office may waive the air voids requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program (www.amrl.net). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will determine air voids from 5 (Five) 6-inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The [HMA Core Sampling Plan form](#) provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory may rerun the random location functions on the HMA Core Sampling Plan form to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The coring locations must be designated by a station and offset, and offsets are taken from the left edge of the pavement in the direction of travel within the lane lines. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory will determine air voids of cores from the values for the maximum specific gravity of the mix and the bulk specific gravity of the core. The Laboratory will determine the maximum specific gravity of the mix according to NJDOT B-3 and AASHTO T 209, except that minimum sample size may be waived in order to use a 6-inch diameter core sample. The Laboratory will determine the bulk specific gravity of the compacted mixture by testing each core according to AASHTO T 166.

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The Laboratory will calculate the percent defective (PD) as the percentage of the lot outside the acceptable range of 2 percent air voids to 8 percent air voids. The acceptable quality limit is 15 percent defective. For lots in which PD > 15, the County will assess a negative pay adjustment.

The Laboratory will use and submit to the RE [form DS8S-PD](#) provided from The Local Aid District Office and verify manually the PD calculation.

The Laboratory will calculate pay adjustments based on the following:

1. Sample Mean (\bar{X}) and Standard Deviation (S) of the N Test Results (X1, X2,..., XN).

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

2. Quality Index (Q).

$$Q_L = \frac{(\bar{X} - 2.0)}{S}$$

$$Q_U = \frac{(8.0 - \bar{X})}{S}$$

3. Percent Defective (PD). Using NJDOT ST for the appropriate sample size, the Laboratory will determine PD_L and PD_U associated with Q_L and Q_U, respectively. PD = PD_L + PD_U

4. Reduction Per Lot. Calculate the reduction per lot as specified in Table 401.03.07-3:

Table 401.03.07-3	
Reduction in Payment for Nonconformance to Air Void Requirements	
Percent Defective (PD) Per Lot	Reduction Per Lot (%)
0 < PD ≤ 15	0
15 < PD ≤ 30	0.5
30 < PD ≤ 35	2
35 < PD ≤ 40	10
40 < PD ≤ 45	15

$45 < PD \leq 50$	20
$50 < PD \leq 60$	30
$60 < PD \leq 75$	45
$PD > 75$	Remove & Replace

5. **Outlier Detection.** If $PD < 10$, the Laboratory will not screen for outliers. If $PD \geq 10$, the Laboratory will screen acceptance cores for outliers using a statistically valid procedure. The following procedure applies only for a sample size of 5 or 10.

1. The Laboratory will arrange the core results in ascending order, in which X_1 represents the smallest value and X_N represents the largest value.
2. If X_N is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_N - X_{(N-1)}}{X_N - X_1}$$

3. If X_1 is suspected of being an outlier, the Laboratory will calculate:

$$R = \frac{X_2 - X_1}{X_N - X_1}$$

4. For $N = 5$ if $R > 0.642$, the value is judged to be statistically significant and the core is excluded.
For $N = 10$ if $R > 0.412$, the value is judged to be statistically significant and the core is excluded.

If an outlier is detected for $N = 5$ and no retest is warranted, the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If an outlier is detected and a retest is justified, take a replacement core for the outlier at the same time as the 5 additional retest cores are taken. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine reduction per lot.

If an outlier is detected for $N = 10$, the Contractor may replace that core by taking an additional core at the same offset and within 5 feet of the original station. If the outlier replacement core is not taken within 15 days, the Laboratory will use the initial core results to determine the reduction per lot.

6. **Retest.** If the initial series of 5 cores produces a percent defective value of $PD \geq 30$ for mainline or ramp lots, or $PD \geq 50$ for other pavement lots, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the HMA Core Sampling Plan form. Take the additional cores within 15 days of receipt of the initial core results. If the additional cores are not taken within the 15 days, the Laboratory will use the initial core results to determine the PPA. If the additional cores are taken, the Laboratory will recalculate the reduction per lot using the combined results from the 10 cores.
7. **Removal and Replacement.** If the final lot $PD \geq 75$ (based on the combined set of 10 cores or 5 cores if the Contractor does not take additional cores), remove and replace the lot and all overlying work. The replacement work is subject to the same requirements as the initial work.

For shoulder lots, the County will assess the calculated reduction per lot instead of removal and replacement. Fog seal the lot as specified in 422.03.01.

I. Thickness Requirements

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THE SUBSECTION IS DELETED AND REPLACED WITH THE FOLLOWING:

Thickness requirements will apply when full-depth, uniform-thickness HMA pavement construction is shown. In no instance will a compacted average thickness of less than 1.25 inches be acceptable.

Pavement lots are defined as approximately 15,000 square yards of pavement area. The Engineer will not include areas consisting of different HMA mixtures or thicknesses in the same lot. If thickness lot area is less than 5000 square yards, the District Local Aid Office may waive the thickness requirements.

The RE will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program (www.amrl.net). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209.

The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

The Laboratory will test for thickness using the full-depth cores taken for surface course air voids, evaluated according to NJDOT B-4. The Laboratory will base acceptance on total thickness and thickness of the surface course.

1. **Total Thickness.** The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the design thickness. The Laboratory will consider 25 percent defective as the acceptable quality limit. For lots where $PD < 25$, the County will award a positive pay adjustment. For lots where $PD > 25$, the County will assess a negative pay adjustment.

The County will base total thickness acceptance on the percentage of the lot estimated to fall below the specified thickness as follows

- a. **Sample Mean (\bar{X}) and Standard Deviation (S) of the N Test Results (X_1, X_2, \dots, X_N).** Calculate as specified in 401.03.07.H.1.

$$\bar{X} = \frac{(X_1 + X_2 + \dots + X_N)}{N}$$

$$S = \sqrt{\frac{(X_1 - \bar{X})^2 + (X_2 - \bar{X})^2 + \dots + (X_N - \bar{X})^2}{N - 1}}$$

- b. **Quality Index (Q_L)**

$$Q_L = \frac{(\bar{X} - T_{des})}{S}$$

Where T_{des} = design thickness.

- c. **Percent Defective (PD).** Using NJDOT ST for the appropriate sample size, determine the percentage of material (PD) falling below the design thickness associated with Q_L (lower limit).
- d. **Reduction in Payment.** The County will determine the reduction in payment based on the quantity of the surface course multiplied by the percent reduction in payment from Table 401.03.07-5.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

Table 401.03.07-5 Reduction in Payment for Nonconformance to Requirements for Total Thickness

Percent Defective	Percent Reduction
0 to 25.0	0
25.1 to 30.0	2
30.1 to 35.0	5
35.1 to 40.0	10
40.1 to 45.0	20
Over 45.0	Remove & Replace

- e. **Retest.** If the initial series of 5 cores produces a percent defective value of $PD \geq 30$, the Contractor may elect to take an additional set of 5 cores at random locations chosen by the RE. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the reduction in payment for nonconformance requirements. If the additional cores are taken, the ME will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores.
- f. **Removal and Replacement.** If the lot $PD \geq 45$, remove and replace, or mill and overlay, the lot. The replacement work is subject to the same requirements as the initial work.

2. **Surface Course Thickness.** The Laboratory will evaluate the surface course solely to determine whether a remove- and-replace or an overlay condition exists, not for pay adjustment. The Laboratory will calculate the percent defective (PD) as the percentage of the lot that is less than the allowable thickness for the nominal maximum aggregate used in the surface course. The Laboratory will accept pavement lots with $PD \leq 30$ and will reject pavement lots with $PD > 30$.

The Laboratory will base surface thickness acceptance on the percentage of the lot estimated to fall below the allowable thickness as follows:

- a. **Sample Mean (X) and Standard Deviation (S) of the N Test Results (X1, X2,..., XN).** Calculate using the formula as specified in 401.03.03.I.1.
- b. **Quality Index (Q).**

$$Q_L = (X - T_{all})/S, \text{ where } T_{all} \text{ is the minimum allowable thickness from Table 401.03.07-6.}$$

Table 401.03.07-6 Surface Course Thickness Requirements

HMA Mix Design Size Designation	Minimum Allowable Compacted Lift Thickness (T_{all})
4.75 MM	0.50 inch
9.5 MM	1.00 inch
12.5 MM	1.25 inches
19 MM	2.00 inches

- c. **Percent Defective.** Using NJDOT ST - Statistical Tables (NJDOT Standard Specs for Roads and Bridges 2019-NJDOT TEST METHODS) for the appropriate sample size, determine the percentage of material (PD) falling below the allowable thickness associated with Q_L (lower limit).

- d. **Retest.** If the initial series of 5 cores produces a percent defective value of $PD > 30$, the Contractor may take an additional 5 cores at random locations determined by the Laboratory. Notify the RE within 15 days of receipt of the initial core results to take the additional cores. If the RE is not notified within the 15 days, the Laboratory will use the initial core results to determine the PPA. When the additional cores are taken, the Laboratory will recalculate the reduction in payment for nonconformance requirements using the combined results from the 10 cores to obtain the total PD.
- e. **Removal and Replacement.** If the surface course fails to meet the acceptance requirement with a $PD \leq 45$, the County will require removal and replacement of the lot. The replacement work is subject to the same requirements as the initial work.

THE SUBSECTION IS DELETED AND REPLACED WITH THE FOLLOWING:

- J. Ride Quality Requirements.** The County will evaluate the ride quality of the final riding surface of all constructed pavement on the project, for routes designated as National Highway System (NHS) and routes under NJDOT jurisdiction, using the International Roughness Index (IRI) according to ASTM E 1926. All NHS roadways are listed on the Department's website [here](#). The County may evaluate ride quality of other routes not designated as NHS or under NJDOT jurisdiction. The final riding surface is defined as the last lift of the pavement structure where traffic will be allowed. The pavement will be evaluated using the current average IRI (C) to select the target IRI (T) from Table 401.03.07-8. The current average IRI (C) is defined as the preconstruction ride quality measured not more than two years from the start of the project pavement construction.

The RE will designate an independent testing agency to perform the ride quality testing and analysis. The testing agency is required to comply with testing and certification requirements according to NJDOT R-1. If the current average IRI (C) is not available, then the testing agency will test, analyze, and report ride quality before pavement construction to measure current average IRI (C). The testing agency will use and submit to the RE the [IRI Testing Summary Report form](#) provided from The Local Aid District Office and verify manually the pay adjustment calculation.

Current IRI data for paving routes designated NHS or NJDOT jurisdiction can be made available by request by contacting Simon Nwachukwu at Simon.Nwachukwu@dot.nj.gov.

For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the County will evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. The County will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA1 as specified in Table 401.03.07-7. PA will be based on lots of 0.01 mile length. The PA will be zero for acceptable quality and negative for inferior quality work.

For projects paving routes designated NHS or NJDOT jurisdiction on mainline travel lanes of less than 2,500 feet length, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the County will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The County will use the measured IRI to calculate the PA using pay equation type PA1 as specified in Table 401.03.07-7.

For paving on ramps and shoulders, the RE will visually inspect the final riding surface. Based on visual inspection, if the RE determines that the work may not conform to the ride quality requirements, then the County will evaluate the ride quality of the final riding surface using IRI. Visual inspection by the RE is considered sufficient grounds for such evaluation. The County will use the measured IRI to calculate the pay adjustment using pay equation type PA2 as specified in Table 401.03.07-7.

When paving over bridge structures on NHS or NJDOT jurisdiction roadways, the County will use the measured IRI to calculate the pay adjustment using pay equation type PA3 as specified in Table 401.03.07-7.

For paving on Local roadways other than NHS and NJDOT jurisdiction on mainline travel lanes equal to or greater than 2,500 feet length and any lane within the project of at least 1,000 feet length, the County may evaluate the ride quality of the final riding surface of the mainline travel lanes using IRI. Local roadways are defined as municipal and

county roads that are not designated as part of the NHS. The County will use the measured IRI to calculate the pay adjustment (PA) using pay adjustment equation (PAE) type PA4 as specified in Table 401.03.07-7.

1. **Smoothness Measurement.** The County will test the longitudinal profile of the final riding surface for ride quality with a Class 1 Inertial Profiling System according to NJDOT R-1. If project conditions preclude the use of the Class 1 Inertial Profiling System, the County will use a Class 1 Walking Profiler or lightweight profiler.
2. **Quality Control Testing.** Perform quality control testing during lift placement to ensure compliance with the ride quality requirements specified in Table 401.03.07-8.
3. **Preparation for IRI Testing.** Notify the RE when all paving is complete and the RE will request IRI testing by independent testing agency. Provide traffic control when the independent testing agency performs IRI testing. Perform mechanical sweeping of the surface before IRI testing. To facilitate auto triggering on laser profilers, place a single line of temporary pavement marking tape perpendicular to the roadway baseline at the beginning and end of each lane, shoulder, and ramp to be tested or as per direction of the independent testing agency. Submit the actual stationing for each temporary pavement marking tape location to the RE.
4. **Quality Acceptance.** The County will determine acceptance and provide PA based on the following:
 - a. **Pay Adjustment.** The acceptable IRI for the roadway pavement will be the target IRI (T) from Table 401.03.07-8 rounded to the nearest whole number for which full payment will be made and will be determined using the latest available current average IRI (C) data. The number of lots for final pay adjustment will be reduced by the number of lots excluded for each segment shown in Table 401.03.07-7. Lots excluded from final PA will be those with the highest recorded IRI numbers for respective roadway and bridge deck segments. A single average IRI value and the corresponding PA for each 0.01 mile lot will be reported. IRI units are in inches per mile.

Table 401.03.07-7 Pay Adjustment Equations (PAE) for Ride Quality			
Pay Equation Type	Exclusions	Pay Equations	
PA1	As shown in the Special Provisions Table 401.03.07-7A	IRI < T	PA1 = 0 ²
		T ≤ IRI ≤ 170	PA1 = PAE
		IRI > 170	PA1 = -A or Corrective action
PA2	Will include, if tested	IRI ≤ 120	PA2 = 0 ²
		120 < IRI ≤ 170	PA2 = (IRI - 120) x (-\$5.00)
		IRI > 170	Maximum Negative Pay or Corrective action
PA3	Will include, if tested	IRI ≤ 120	PA3 = 0 ²
		120 < IRI ≤ 170	PA3 = PAE
		IRI > 170	PA3 = -A or Corrective action
PA4	Will include, if tested	IRI ≤ T	PA4 = 0 ²
		T < IRI ≤ T+80 or 170 whichever is higher	PA4 = (IRI - T) x (-\$1.25)
		IRI > T+80 or 170 whichever is higher	Maximum Negative Pay or Corrective action

$$PAE = \frac{A}{-37.75347 \times \log_e(T) + 194.87} - \frac{A}{-37.75347 \times \log_e(IRI) + 194.87}$$

$$A = 1267.2 \left[\frac{M}{9} + \frac{PD}{150} \right]$$

P = Bid price of last lift of the pavement structure to be evaluated or price listed in table 401.03.07-7B, whichever is higher, per Ton
D¹ = Design thickness of last lift to be evaluated, Inch
M = Bid price of Milling, per Square Yard
T = Target IRI

1. For various design thicknesses of last lift to be evaluated within a segment, calculate the thickness using the following equation:

$$\text{Design thickness of last lift to be evaluated (D)} = \frac{D_1 N_1 + D_2 N_2 + \cdots D_N N_N}{N_1 + N_2 + N_3 + \cdots N_N}$$

Where:

D_N = Design thickness of the last lift to be evaluated of N sections having same mix, Inch

N_N = Number of lots of N section with design thickness D_N of last lift to be evaluated

2. Positive pay adjustment will be used to offset negative pay adjustment. Total pay adjustment will not be greater than zero.

401.03.08 Core Samples

THE SECTION IS DELETED AND REPLACED WITH THE FOLLOWING:

The LPA will designate an independent testing agency (Laboratory) to perform the quality assurance sampling, testing and analysis. The Laboratory is required to be accredited by the AASHTO Accreditation Program (www.amrl.net). The Laboratory's accreditation must include AASHTO T 166 and AASHTO T 209. The Laboratory Technician who performs the quality assurance sampling shall be certified by the Society of Asphalt Technologists of New Jersey as an Asphalt Plant Technologist, Level 2.

Upon completion of an HMA lot, the Laboratory shall drill cores at random locations at least 12 hours after paving. Take cores in the presence of the RE. The Laboratory will determine air voids from 5 (Five) 6-inch diameter cores taken from each lot in random locations within the traveled way and at least one core in each travel lane. The [HMA Core Sampling Plan](#) form provided on the [Local Aid Website](#) must be utilized by the Laboratory to determine the random locations of the cores. The Laboratory may rerun the random location functions on the HMA Core Sampling Plan form to resolve any conflicts generated by the HMA Core Sampling Plan form and physical limitations of the HMA lot, such as utility conflicts, or the specifications defined herein. The Laboratory must disclose the contents of the HMA Core Sampling Plan with the Contractor to assist in the schedule of construction.

The Laboratory shall use drilling equipment with a water-cooled, diamond-tipped masonry drill bit that produces 6-inch nominal diameter cores for the full depth of the pavement. The Laboratory shall remove the core from the pavement without damaging it. After the Laboratory removes the core, the Laboratory shall remove all water from the hole. The Laboratory shall apply an even coating of tack coat to sides of the hole. The Laboratory shall place cold patching material or HMA in maximum lifts of 4 inches in the hole and compact each lift. If cold patching material is utilized to fill the coring hole, then it is not necessary to apply tack coat to the sides of the hole. The Laboratory shall ensure that the final surface is 1/4 inch above the surrounding pavement surface.

HMA cores are to be taken from the HMA lot for quality assurance sampling, testing and analysis within seven (7) days of completing the HMA lot. For test strip lots and the first traveled way lot, the Laboratory shall deliver cores from the field to the testing Laboratory within 48 hours of completing the lot. The Laboratory shall deliver all other acceptance cores within 7 days of completing the lot.

After each air void lot is placed, the Laboratory shall drill cores so that the full depth of the course is recovered for air void acceptance testing. If thickness acceptance testing is required as specified in 401.03.07.I, the Laboratory shall drill the surface course air void cores for the full depth of pavement.

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The Laboratory shall utilize a tamper proof core sample box for core storage and transportation. The Laboratory shall ensure that the core sample box can be locked and sealed and is tamper proof in such a manner that it cannot be opened without removing the seals. The Laboratory shall ensure that the core sample box provides protection for the cores from being disturbed or damaged during transit. The Laboratory shall mark the assigned core number on the side of the sample. The Laboratory shall place core samples in the core sample box. The Laboratory shall transport the sealed core sample boxes to the testing Laboratory.

The Laboratory will not accept damaged core samples for testing. If the core sample box exhibits indications of tampering, the core samples will be rejected. If any core samples are rejected, drill a replacement core at the same offset and within 5 feet of the original station and deliver to the Laboratory as specified above within 48 hours.

If the project is utilizing quality control cores, the Laboratory shall provide the results of the quality control core testing to the Contractor in a timely manner which will not unnecessarily impede construction.

SECTION 405 – CONCRETE SURFACE COURSE

405.03.02 Concrete Surface Course

A. Concreting Plan.

PART (4) IS CHANGED TO:

4. Lighting plan for night operations as specified in 108.06.

DIVISION 420 – PAVEMENT PRESERVATION TREATMENTS

SECTION 422 – FOG SEAL

422.03.01 Fog Seal Surface Treatment

A. Fog Sealing Plan.

PART (5) IS CHANGED TO:

5. Lighting plan for night operations as specified in 108.06 for paving.

DIVISION 600 – MISCELLANEOUS CONSTRUCTION

SECTION 606 SIDEWALKS, DRIVEWAYS, AND ISLANDS

606.04 MEASUREMENT AND PAYMENT

THE SECOND PARAGRAPH IS DELETED AND REPLACED WITH THE FOLLOWING:

When the RE directs undercutting of unstable material in the excavation area, the County will make payment for the additional excavation. The County will also make payment, for the additional bedding if there is not an excess of excavation available.

SECTION 608 NON-VEGETATIVE SURFACES

608.04 MEASUREMENT AND PAYMENT

THE SECOND PARAGRAPH IS DELETED AND REPLACED WITH THE FOLLOWING:

When the RE directs undercutting of unstable material in the excavation area, the County will make payment, for the additional excavation. The County will also make payment, for the additional bedding if there is not an excess of excavated material available for use as bedding.

SECTION 610 – TRAFFIC STRIPES, TRAFFIC MARKINGS, AND RUMBLE STRIPS

610.01 DESCRIPTION

THE FOLLOWING IS ADDED:

The Contractor shall notify the RE one week prior to the installation of any striping. The RE must be on-site to inspect the work during striping installation.

610.03.03 RPMs (Raised Pavement Markers)

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure that RPMs are installed within 14 days of opening each day's surface paving to traffic.

SECTION 612 – SIGNS

612.02 MATERIALS

THE FOLLOWING IS ADDED:

Signs mounted to mast arms or traffic signal standards shall be fabricated from flat aluminum sheets conforming to ASTM B 209 Alloy 5052-H38 or Alloy 6061-T6, minimum thickness of 0.125 inches. The sheeting shall be Type IV Retroreflective and conform to the current MUTCD. These signs shall be mounted as shown in the NJDOT Standard Electrical Details. Mast arm signs shall utilize vertical mounted type, high-strength aluminum alloy, swing brackets with stainless steel components; heavy-duty stainless-steel straps adaptable to any pole diameter and removeable steel damper springs. Swing sign brackets shall be adjustable for leveling. Pole mounted signs shall be mounted to the traffic signal standard utilizing 3/4" stainless steel banding with attached device and tamper-proof stainless-steel screws. Overhead street name signs shall be double-sided. The contractor shall assume that stainless steel swivel brackets shall be required on all signs. Stiffeners shall also be required on all signs.

All ground-mounted signs shall be Type IV Retroreflective and conform to the current MUTCD.

THE FOLLOWING IS ADDED:

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

612.03.04 RELOCATE SIGN

For locations shown on the Plans, dismount existing sign panels from their existing sign supports, and remove said sign supports. Provide and install new breakaway sign supports at new sign location. Clean and install sign panels on the new breakaway sign supports.

612.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

<i>Item</i>	<i>Pay Unit</i>
RELOCATE SIGN	UNIT

The measurement for Regulatory and Warning Sign shall include the square footage of mast arm mounted signs and NJ Transit signs along with the appropriate mounting hardware and/or breakaway u-channel posts and supports, and all other ancillary parts needed to install the sign. Each side of a double-sided mast arm mounted street name sign shall not be measured for separate payment.

THE FOLLOWING SECTION IS ADDED:

SECTION 654 – ELECTRIC

654.01 DESCRIPTION

This Section describes the requirements for resetting electric manholes.

654.02 MATERIALS

All materials for the resetting of existing electric manholes must be approved by the electric utility owner.

654.03 CONSTRUCTION

654.03.01 Electric

The Contractor is solely responsible for coordinating the work associated with resetting existing electric manholes with the electric utility owner including submittals that the utility owner requires. Perform all work in accordance with the applicable electric codes, regulations, safety regulations, High Voltage Proximity Act et. al.

654.04 MEASUREMENT AND PAYMENT

The County will measure and make payment for Items as follows:

<i>Item</i>	<i>Pay Unit</i>
RESET ELECTRIC MANHOLE	UNIT

No separate measurement of payment will be made for excavation, jackhammering, sawcutting or other necessary field work associated with the resetting of electric manholes. All incidental work related to perform the reset of manholes is to be included in the unit price bid for RESET ELECTRIC MANHOLE.

DIVISION 700 – ELECTRICAL

SECTION 701 – GENERAL ITEMS

701.03.01 Existing Systems

THE FIFTH PARAGRAPH IS CHANGED TO:

If removal of existing above ground electrical material is required, deliver salvaged materials to the City of Plainfield Department of Public Works Signal Division Yard located at 401 Central Avenue, Plainfield, NJ 07060. Contact Kenny Cruz at (908) 753-3352 to schedule delivery. Dispose of salvaged materials rejected by the RE from the Project Limits as specified in 201.03.09.

701.03.15 Cable and Wire

C. Connection and Coordination with Utility Services.

THE LAST PARAGRAPH IN PART C IS CHANGED TO:

Provide temporary services if required for testing and operation of the electrical systems until Substantial Completion or as directed by the RE. Coordinate temporary services with the Utility Company.

THE FOLLOWING IS ADDED:

Perform all utility coordination required to relocate existing electrical and communication service and obtain new service. Obtain and provide for utility services required for testing and operation of the traffic signal systems until interim acceptance of each system. Utility Services for traffic signals are to be performed in connection with PSE&G:

- E Front St (CR 620) & Leland Ave: REF #500943446
- E 7TH St (CR 601) & Leland Ave: REF #500943445
- E 7TH St (CR 601) & Woodland Ave: REF #500943444
- E 7TH St (CR 601) & Berckman St: REF #500941560
- W 7th St (CR 601) & Arlington Ave: REF #500941562

Upon successful completion of level C testing and acceptance of any device, provide the RE with a letter requesting transfer of utility services providing the latest copy of the utility bill from each utility company. Such transfers are to be effective beginning the next monthly billing cycle.

Obtain all inspections and approvals as required by PSE&G. Notify PSE&G a minimum of four weeks prior to starting electrical work. Contact the PSEG wiring inspector for meter inspection, conduit size, transformer shutdowns, and open trench inspection. Perform all work on the plans and/or as required by PSE&G to provide a complete, operational electrical service. Provide materials that meet or exceed PSE&G requirements.

Once new utility services have been energized or activated and the utility company has de-energized and unhooked the old service connection; remove existing pole risers and service heads, cut back 1 foot below grade, and plug the conduits.

SECTION 702 – TRAFFIC SIGNALS

THE FOLLOWING SUBSECTIONS ARE ADDED:

702.03.13 Push Button Installation

Provide and install push button installations as shown on the plans. Shape and compact the underlying material for the tee drain to produce a firm even surface. Provide and install geotextile with the tee drain. If sections of the geotextile need to be joined, overlap the sections a minimum of 18". Permanently cover the geotextile within 48 hours of placement.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

Construct rigid metallic conduit as specified in 701.03.02. Place and grade coarse aggregate without damaging the geotextile. Construct the concrete foundation as specified in 701.03.12.

702.03.14 Push Button Assemblies, Type APS

APS type push button assemblies shall consist of furnishing and installing the push button, housing, cable from the push button to the base of the standard, and the associated cable connections. The work shall also include the programming of push button assemblies. All push buttons shall operate on logic ground.

Push Button Assemblies, Type APS shall be compatible with the project's APS Control Units. Submittals for Push Button Assemblies, Type APS and APS Control Units shall be submitted concurrently for approval.

All mounting fittings shall be specifically designed to function with the traffic control device installed and shall provide the proper clearance to aid and adjust the device. Fittings and mounting hardware not shown in the plan shall conform to the recommendations of the manufacturer.

The push button assembly and associated push button signage shall conform to the current edition of the MUTCD. Encode signage text into Braille and imprint on the pushbutton assembly or associated sign.

702.03.15 APS Control Unit

The APS Control Unit shall consist of furnishing and installing a complete and functional APS system at the locations designated on the plans. The APS Control Unit is composed of the control unit in the enclosures designated on the plans, required patch cables, and required programming. The work shall also include installing an interface panel in the enclosures and modifying controller parameters as required. If extraneous devices are required by the APS Control Unit for full access to programmable features, two of such devices shall be provided.

APS Control Units shall be compatible with the project's Push Button Assemblies, Type APS. Submittals for APS Control Units and Push Button Assemblies, Type APS shall be submitted concurrently for approval.

702.03.16 Uninterruptible Power Supply

The Uninterruptible Power Supply (UPS) shall consist of furnishing and installing a complete and functional UPS system at traffic signal locations designated on the plans.

Configure the traffic signal where the UPS is to be installed to maintain full normal signal operation until 50% of battery charge time. The traffic signal shall then be programmed to revert to emergency flash operation for the duration of the battery reserve or until utility power is restored.

After the UPS has been installed, test that the UPS will operate the signal when utility power is removed.

702.03.17 Single Member Arm & Shaft Assembly

Leave the factory wrapping on the single member arm and shaft assembly for as long as the manufacturer recommends. Install the single member arm and shaft assembly with the wrapping in place and maintain the single member arm and shaft assembly and other material in original factory appearance. Erect the single member arm and shaft assembly with methods that prevent scratching or abrasions. Bolt the standard securely to the foundation and erect the single member arm and shaft assembly with sufficient rake to assume a vertical position after all attachments and appurtenances are in place. The Contractor may install leveling shims to a maximum height of 1/4 inch. Provide and install the single member arm and shaft assembly with ground studs in the base. Install a ground wire that extends to the ground rod from the single member arm and shaft assembly.

Install a traffic signal(s) with a pole clamp (as required), mast arm hanger, grommet, safety chains, swing sign brackets (as required), and miscellaneous fittings and hardware. Provide for all modifications or adjustments that may be required for staged construction.

702.03.18 GPS Unit

Provide and install GPS Unit in controller cabinet. Connect unit to controller and link to controller's internal clock to ensure clock will not drift. Ensure all controller clocks are synchronized.

702.04 MEASUREMENT AND PAYMENT
THE FOLLOWING PAY ITEMS ARE ADDED:

<i>Item</i>	<i>Pay Unit</i>
PUSH BUTTON INSTALLATION	UNIT
PUSH BUTTON ASSEMBLIES, TYPE APS	UNIT
APS CONTROL UNIT	UNIT
UNINTERRUPTIBLE POWER SUPPLY	UNIT
SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA__	UNIT
GPS UNIT	UNIT

THE FOLLOWING IS ADDED:

The County will measure a unit of UNINTERRUPTIBLE POWER SUPPLY for each controller cabinet fully furnished, installed, and connected with the UPS.

SECTION 704 – INTELLIGENT TRANSPORTATION SYSTEMS (ITS)

704.03.04 Controlled Traffic Signal System (CTSS)

A. Components.

THE FIRST PARAGRAPH IS REVISED AS FOLLOWS:

CTSS consists of the Items needed to provide a complete system that is capable of controlling a series of interconnected signalized intersections and processing control data to the City of Plainfield. The system also includes, but is not limited to, electronic and electrical devices, network equipment, servers, cabinet, wiring, programming, configuration, communication and electric service, service charges, connections, software, grounding, and surge protection

B. Installation.

1. Controller, CTSS.

THE FOLLOWING IS ADDED AT THE END OF THE SECTION:

Provide with each cabinet an 18” skirt. Include with the cabinet auxiliary generator hookup and transfer switch.

Furnish and install materials to establish and secure wireless links. Material includes antennas, power supplies/injectors, mounting hardware, weatherproofing, grounding, and associated cabling. Install wireless link materials in accordance with manufacturer instructions and recommendations. Test each wireless link utilizing the standard communication Ethernet protocol and a laptop or tablet computer. The test shall verify the wireless link is fully operational and can achieve its full throughput and bandwidth. The performance characteristics shall be demonstrated to be in accordance with the wireless link material specifications. Provide wireless link test procedures to the RE for review and approval prior to the test.

Furnish and install Remote Monitoring Module. The Remote Monitoring Module shall include hardware, software, and a LTE cellular modem connected to provide real-time remote monitoring of image detectors and traffic signal controller equipment and traffic signal control for the City of Plainfield. Coordinate with Mr. Kenny Cruz, Superintendent of Signal Division, 908.753.3409, Kenny.Cruz@plainfieldnj.gov. Five years of cellular communications and software licenses shall be included.

At least 30 days before beginning the work, submit working drawings for approval that include a block wiring diagram illustrating the interconnections of the system components from the field location to the designated communication hub or control center or both. Identify each component by manufacturer and model number. Procure technicians that are certified by the existing operating system providers to integrate the ITS devices into existing operating systems. Coordinate with the City of Plainfield through the RE to establish Firewall/Network/IP addresses as required. Ensure that a fully functional and operational system is provided. provided. Ensure the ITS System Network working drawing is submitted in a format acceptable to the County. Sample ITS Working Drawings are available at: <http://www.state.nj.us/transportation/eng/elec/ITS/pdf/sampledrawings.pdf>.

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Ensure the working drawing contains the following information:

- 1 Affected network nodes are shown in nodal format with Latitude/Longitude.
2. Each node shows equipment type and the proposed communication links between them.
3. Distances between Ethernet switches and calculated dB loss between them.
4. A Communication Network Assignment Table specifying Equipment Location (Node, Site ID, Lat/Long, Plan sheet reference, Route, Mile Post), Equipment Information (Item No., Description, Function, VLAN No., Subnet Mask, and IP Address).

704.04 MEASUREMENT AND PAYMENT

THE FOLLOWING IS ADDED:

No separate payment will be made for the cabinet skirt but will be included in the item CONTROLLER, CTSS.

No separate payment will be made for the wireless link or Remote Monitoring Module but will be included in the item CONTROLLER, CTSS.

DIVISION 900 – MATERIALS

SECTION 902 – CONCRETE

902.02.03 Mix Design

THE FOLLOWING IS ADDED AFTER THE FIRST PARAGRAPH:

Unless otherwise approved by the RE, only one source of supply for hot mix asphalt surface course may be used on the project.

SECTION 903 – CONCRETE

903.03.05 Control and Acceptance Testing Requirements

E. Acceptance Testing for Strength for Pay-Adjustment Items.

Concrete Items which are subject to pay adjustment and the base prices are as follows:

ITEMS	DESCRIPTION	UNIT	BASE PRICE
507021P	CONCRETE BRIDGE DECK	CY	\$500.00
507036P	CONCRETE BRIDGE PARAPET	LF	\$305.00
505039P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-36), 36" X 15"	LF	\$125.00
505042P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-36), 36" X 18"	LF	\$130.00
505015P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-36), 36" X 27"	LF	\$170.00
505045P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-36), 36" X 21"	LF	\$160.00
505018P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-36), 36" X 33"	LF	\$170.00
505021P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-36), 36" X 39"	LF	\$175.00
505024P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-36), 36" X 42"	LF	\$185.00
505003P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 45"	LF	\$155.00
505006P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 54"	LF	\$155.00
505048P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SII-48), 48" X 15"	LF	\$160.00
505051P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIII-48), 48" X 18"	LF	\$135.00
505009P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 63"	LF	\$185.00
505027P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BI-48), 48" X 27"	LF	\$215.00
505054P	PRESTRESSED CONCRETE SLAB BEAM, (TYPE SIV-48), 48" X 21"	LF	\$215.00
505030P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BII-48), 48" X 33"	LF	\$185.00
505033P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIII-48), 48" X 39"	LF	\$220.00
505036P	PRESTRESSED CONCRETE BOX BEAM, (TYPE BIV-48), 48" X 42"	LF	\$230.00
505012P	PRETENSIONED PRESTRESSED CONCRETE BEAM, 72"	LF	\$200.00
502045M	CAST-IN-PLACE CONCRETE PILE, DRIVEN, 12" DIAMETER	LF	\$50.00
502090M	PRECAST CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$90.00
502132M	PRESTRESSED CONCRETE PILE, DRIVEN, 12" X 12"	LF	\$50.00
502135M	PRESTRESSED CONCRETE PILE, DRIVEN, 14" X 14"	LF	\$50.00
502138M	PRESTRESSED CONCRETE PILE, DRIVEN, 16" X 16"	LF	\$50.00

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

502141M	PRESTRESSED CONCRETE PILE, DRIVEN, 18" X 18"	LF	\$50.00
502144M	PRESTRESSED CONCRETE PILE, DRIVEN, 20" X 20"	LF	\$75.00
502147M	PRESTRESSED CONCRETE PILE, DRIVEN, 22" X 22"	LF	\$75.00
502150M	PRESTRESSED CONCRETE PILE, DRIVEN, 24" X 24"	LF	\$75.00
502151M	PRESTRESSED CONCRETE PILE, DRIVEN, 30" X 30"	LF	\$75.00
502156M	PRESTRESSED CONCRETE PILE, DRIVEN, 54" DIAMETER	LF	\$200.00

SECTION 917 – LANDSCAPING MATERIALS

917.08 PLANT MATERIALS

H. Inspection.

Notify the RE at least 5 days in advance of delivery to the Project Limits for installation.

SECTION 919 – MISCELLANEOUS

919.05 GEOMEMBRANE LINER

TABLE 919.05-1 IS CHANGED TO:

Table 919.05-1 Requirements for HDPE Resin		
Property	Test Method	Requirements
Specific Gravity (Resin & Carbon Black)	ASTM D 792	> 0.940
Melt Index	ASTM D 1238	< 0.4 g/10 min
Carbon Black Content	ASTM D 1603	2 – 3 %

DIVISION 1000 – EQUIPMENT

SECTION 1001 – TRAFFIC CONTROL EQUIPMENT

1001.03 TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHIONS

THE FIRST PARAGRAPH IS CHANGED TO:

Provide a truck affixed with a bed-mounted type C flashing arrow board, as specified in 1001.01, and a rear mounted crash cushion. Ensure the weight of the truck with the type C flashing arrow board and the rear mounted crash cushion is minimum total weight of 10 tons. The Contractor may use ballast to meet the weight requirement. When using ballast, ensure that it is securely fastened to the truck. Provide crash cushions that conforms to the following requirements:

1. Meets crash-worthiness requirements as specified in 159.03.02.
2. Designed to be attached to the rear of a truck.
3. Equipped with a 90 degree hydraulic tilt system to raise and lower the crash cushion. The tilt system shall have a locking mechanism to secure the crash cushion when in the raised position.
4. If equipped with energy absorbing modules, ensure that they are painted yellow.
5. Displays alternating 6 inch wide black and yellow bands, composed of Type III-retroreflective sheeting, as specified in ASTM D 4956, in an inverted “V” chevron pattern on the surface of the rear module that faces traffic. When in the raised position, ensure that the surface of the rear facing module also displays the chevron pattern.
6. Equipped with standard trailer lighting systems, including brake lights, taillights, and turn signals that are visible in the raised and lowered positions.

THE FOLLOWING SUBSECTION IS ADDED:

1001.04 PORTABLE VARIABLE MESSAGE SIGN WITH REMOTE COMMUNICATION

Provide a NTCIP compliant portable variable message sign as described under 1001.02 with the exceptions noted below and each equipped with broadband cellular modem.

Ensure that the sign panel is color full matrix model that displays a combination of letters and graphic images.

Ensure that the sign panel is capable of displaying 3 lines of text with variable size characters.

Ensure 9 characters are displayed per line for posting travel times. For this 9 character requirement, smaller size characters may be allowed that meets MUTCD guidelines.

Ensure that the panel is also capable of displaying 8 characters per line with a minimum character height of 18 inches.

Ensure that the PVMSRC can be integrated with the County’s central DMS control software for remote operation.

1001.05 PORTABLE TRAILER MOUNTED CCTV CAMERA ASSEMBLY

Provide a Portable Trailer Mounted CCTV Camera Assembly (PTMCCA) with the following:

A. Trailer Platform

1. Maximum size, including tongue, 14 feet long by 7 feet wide by 8 feet high.
2. NJDOT approved lighting package to include electrical brake and marker lights with wire connections.
3. Primed and painted with powder coated orange color.
4. Fitted with manual telescoping outriggers with adjustable jacks sized to counter full mast extension.
5. Four 3,500 pounds, drop leg, top wind screw jacks.
6. All equipment secured to prevent theft or separation from platform.
7. 24/7 operation in all weather conditions.
8. One locking NEMA-4 equipment box for operational controls.
9. Removable wheels (with wheel locks) when trailer is in deployed position.

INTERSECTION IMPROVEMENTS ALONG EAST AND WEST 7TH STREET (CR 601) AND INTERSECTION OF EAST FRONT STREET (CR 620) AND LELAND AVENUE

10. Operation manual with a copy placed in the storage bin.

B. Mast

1. 150 pounds payload capacity.
2. 29 feet to 32 feet of extension with capability to mount antenna at 20 feet, 25 feet or at the top, 10 feet maximum nested length of mast - 3 to 9 sections.
3. Un-guyed.
4. Driven by galvanized steel cable.
5. Spiral conduit for cables.
6. Compactly retractable when nested into storage container at the bottom, and foldable for easy transport.
7. Operated by a power winch with a safety brake.
8. Capable of being raised or lowered during sustained wind speeds of 30 miles per hour.

C. Power Source

Equip the PTMCCA with either a diesel charged or a solar charged battery system. Ensure that the PTMCCA is also capable of operating on 120 volt AC electrical service. The County may require a solar charged battery system in noise sensitive areas. Provide the power with a battery backup system capable of providing continuous operation when the primary power source fails. Ensure that the power source meets the following requirements:

1. **Diesel.** Ensure that the fuel tank is capable of operating the sign for a period of 72 hours without refueling. Equip with an exhaust muffler and a United States Department of Forestry approved spark arrester. Ensure that the engine is shock mounted to reduce vibration and locked in a ventilated enclosure.
2. **Solar.** Provide solar panels capable of recharging the batteries at a rate of 4 hours of sun for 24 hours of camera usage. Ensure that the battery capacity is capable of operating the sign for a period of 18 days without sunlight.

D. Electronics

1. Cellular (CDMA), microwave, or 802.11 bandwidth option.
2. Work lights in all cabinets.
3. Remote trailer diagnostics (battery level, charging output, etc.)

E. Camera and Software

Ensure that the camera has the following characteristics:

1. Dome Camera in a heavy duty plastic dome or with a weather resistant case.
2. Impact resistant viewing window.
3. Minimum resolution of NTSC 704 (H) x 480 (V).
4. Backlight compensation.
5. Image stabilization.
6. Light Sensitivity 0.02 lux NIR Mode.
7. Auto Focus with Manual Focus capability.
8. Auto White Balance with Manual White Balance capability.
9. Motorized Zoom up to 16x optical, 10x digital.
10. Motorized Pan-Tilt, pan 360°, tilt 180°.
11. Thermostatically controlled heater and defroster -50° to 140°F operating range.
12. Windshield wiper.
13. 24/7 operation in all weather conditions.
14. Time and date stamp.

Ensure the software provides the following functionality:

1. Remote control of pan, tilt, and zoom.
2. Display of streaming video in MPEG format, motion-JPEG, and single snapshot JPEG images, remotely interchangeable by using central software.

3. Preset controls of pan/tilt/zoom combinations. Ensure all presets are accessible from a drop-down menu with descriptive name of preset. Set first 8 presets with quick-launch icons with graphical representation of the preset views.
4. Display of all the project's webcams in a single view screen.
5. Display of local time and weather conditions including temperature and humidity.
6. Saving images and sending email images.
7. Viewing archived images via a graphical calendar control and storing archived images at least every 5 minutes.
8. Three levels of password protection: administrator, user, and guest individual user accounts.
9. Monitoring and controlling the cameras using web access.

SECTION 1003 – HMA SITE EQUIPMENT

1003.01 MATERIALS TRANSFER VEHICLE (MTV)

THE FOLLOWING IS ADDED AFTER THE LAST PARAGRAPH:

Ensure the MTVs Gross Weight and maximum speed limit do not exceed the load restrictions as shown in 105.09 Special Provisions.

SECTION 1009 – HMA PLANT EQUIPMENT

1009.01 HMA PLANT

A. Requirements for HMA Mixing Plants.

8. Safety.

THE THIRD PARAGRAPH IS CHANGED TO:

When plant production occurs during night operations, provide permanently fixed lighting throughout the plant operations, plant laboratory, and truck scale areas to ensure a clear view of the operations. Also provide permanently mounted lighting at the sampling platforms to sufficiently illuminate the bed of the truck for inspection and sampling operations.

FEDERAL AID PROJECT ATTACHMENT 1

DISADVANTAGED BUSINESS ENTERPRISE UTILIZATION

- A. Utilization of Disadvantaged Business Enterprises as Subcontractors, Transaction Expeditors, Regular Dealers, Manufacturers and Truckers.** The Department advises the Contractor and subcontractors that failure to carry out the requirements in this attachment constitutes a material breach of Contract and, after the notification of the applicable Federal agency, may result in termination of the agreement or Contract by the Department or such remedy as the Department deems appropriate. Requirements set forth in this section shall also be physically included in all subcontracts in accordance with USDOT requirements.
- B. Policy.** It is the policy of the Department that Disadvantaged Business Enterprises, as defined in 49 CFR, Part 26; Titles I & V of the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA); MAP-21, Moving Ahead for Progress in the 21st Century Act (P.L. 112-141); FAST-ACT, Fixing America's Surface Transportation Act (P.L. 114-94, December 4, 2015); and Section III below, shall have an equal opportunity to participate in the performance of contracts financed in whole or in part with Federal funds under this agreement. The Disadvantaged Business Enterprise requirements of 49 CFR, Part 26 et seq. apply to this agreement.
- C. Definitions**
- 1. Disadvantaged Business Enterprise (DBE).** A for-profit small business concern:
 - a. That is at least 51 percent owned by one or more individuals who are both socially and economically disadvantaged or, in the case of a corporation, in which 51 percent of the stock is owned by one or more such individuals; and
 - b. Whose management and daily business operations are controlled by one or more of the socially and economically disadvantaged individuals who own it, and who do not exceed the personal net worth criteria established in 49 CFR Part 26.
 - 2. Socially and economically disadvantaged individual.** Any individual who is a citizen (or lawfully admitted permanent resident) of the United States and who has been subjected to racial or ethnic prejudice or cultural bias within American society because of his or her identity as a member of groups and without regard to his or her individual qualities. The social disadvantage must stem from circumstances beyond the individual's control.
 - a. Any individual who a recipient finds to be a socially and economically disadvantaged individual on a case-by-case basis. An individual must demonstrate that he or she has held himself or herself out, as a member of a designated group;
 - b. Any individual in the following groups, members of which are rebuttably presumed to be socially and economically disadvantaged:
 - (1) Black Americans," which includes persons having origins in any of the Black racial groups of Africa
 - (2) Hispanic Americans," which includes persons of Mexican, Puerto Rican, Cuban, Dominican, Central or South American, or other Spanish or Portuguese culture or origin, regardless of race
 - (3) Native Americans," which includes persons who are enrolled members of a Federally or State recognized Indian tribe, Alaska Natives, or Native Hawaiians
 - (4) Asian-Pacific Americans," which includes persons whose origins are from Japan, China, Taiwan, Korea, Burma (Myanmar), Vietnam, Laos, Cambodia (Kampuchea), Thailand, Malaysia, Indonesia, the Philippines, Brunei, Samoa, Guam, the U.S. Trust Territories of the Pacific Islands (Republic of Palau), Republic of the Northern Marianas Islands, Samoa, Macao, Fiji, Tonga, Kiribati, Tuvalu, Nauru, Federated States of Micronesia, or Hong Kong

- (5) Subcontinent Asian Americans,” which includes persons whose origins are from India, Pakistan, Bangladesh, Bhutan, the Maldives Islands, Nepal or Sri Lanka
 - (6) Women
 - (7) Any additional groups whose members are designated as socially and economically disadvantaged by the SBA, at such time as the SBA designation becomes effective.
 - (8) Being born in a particular country does not, standing alone, mean that a person is necessarily a member of one of the groups listed in this definition.
 3. **Commercially Useful Function (CUF).** A DBE performs a commercially useful function when it is responsible for execution of a distinct element of the work of a contract and carrying out its responsibility by actually performing, managing and supervising the work involved. To perform a commercially useful function, the DBE must also be responsible, with respect to materials and supplies used on the contract, for preparing the estimate, negotiating price, determining quality and quantity, ordering the material, arranging delivery, installing (where applicable), and paying for the material and supplies itself for the project.
 4. **Transaction expeditor (broker).** A DBE who arranges or expedites transactions and who arranges for material drop shipments.
 5. **DBE regular dealers.** A firm that must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.
 6. **DBE manufacturer.** A firm that operates or maintains a factory or establishment that produces on the premises, the materials, supplies, articles, or equipment required for the Contract.
 7. **Good faith effort (GFE).** Efforts to achieve a DBE goal or other requirement of 49 CFR Part 26, which by their scope, intensity, and appropriateness to the objective, can reasonably be expected to fulfill the program requirement. Efforts to include firms not certified as DBEs in the state where the contract is being let are consequently not good faith efforts to meet a DBE contract goal.
 8. **Affirmative Action Plan.** An outline of the steps a contractor or subcontractor will implement to achieve equal employment opportunity and affirmative action and/or to correct its equal employment and affirmative action program deficiencies.
- D. **Compliance.** The Contractor is responsible for compliance as specified in Section 105.
- E. **Contractor’s DBE Obligations.** Ensure that DBEs have an equal opportunity to receive and participate in contracts and subcontracts financed in whole or in part with Federal funds in performing work with the Department. Take all necessary and reasonable steps in accordance with 49 CFR, Part 26 and the Contract to ensure that DBEs are given equal opportunity to compete for and to perform on the Department’s Federal Aid Projects. Do not discriminate in the award and performance of any Contract obligation including, but not limited to, performance of obligations on USDOT assisted contracts, as specified in Section 107.
1. Post Award Obligations
 - a. Give DBEs equal consideration with non-minority firms in negotiation for any subcontracts, purchase orders or leases.
 - b. Attempt to obtain qualified DBEs to perform the work. A directory of certified Disadvantaged Small Businesses Enterprise firms can be found in the New Jersey Unified Certification Program Vendor Certification database, online at: <https://njucp.dbesystem.com/>.
 2. Affirmative Action After Award of the Contract
 - a. **Subletting.** If at any time following the award of the Contract, the Contractor intends to sublet any portion(s) of the work under said Contract, or intends to purchase material or lease equipment not contemplated during preparation of bids, take affirmative action:

- (1) Notify the RE, in writing, of the type and approximate value of the work which the Contractor intends to accomplish by such subcontract, purchase order or lease.
 - (2) Submit the Post-Award Minority Certification (Part IV of the DC-18A Request for Approval to Sublet on Projects Utilizing the 2019 Specifications Form) to the Regional Supervising Engineer with the application to sublet, or prior to purchasing material or leasing equipment. Obtain Post Award Minority Certifications from the RE.
 - (3) Efforts made to identify and retain a DBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original DBE prove unsuccessful, shall be as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
 - (4) Notification of a DBE firm's termination will be as specified in Section 108. Send notice in writing to the Department through the RE, with a copy to DCR/AA. Said termination notice will include the firm's ethnic classification, whether the firm is a DBE and the detailed reason(s) for termination.
- b. Selection and Retention of Subcontractors.** Do not discriminate in the selection and retention of subcontractors, including procurement of materials and leases of equipment as specified in 108.01. Provide the RE with a listing of firms, organizations or enterprises solicited and those utilized as subcontractors on the proposed project. Such listing shall clearly delineate which firms are classified as DBEs. Provide the RE with subcontract agreements for all subcontractors performing work on the Contract as specified in Section 108.
- (1) Efforts made to identify and retain a DBE as a replacement subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker when the arrangements with the original DBE prove unsuccessful, shall be submitted as specified in Section 108. Work in the category concerned shall not begin until such approval is granted in writing by the Department.
 - (2) Notification of a DBE firm's termination will be as specified in Subsection 108.01. Send notice in writing to the Department through the RE. Said termination notice will include the firm's ethnic classification, whether the subcontractor is a DBE and the detailed reason(s) for termination.
- c. Meeting Contract DBE Goal.** Report attainment toward meeting the Contract DBE goal by submitting monthly, all DBE participation, to the Department's RE and DCR/AA Contract Compliance Unit using the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form. The form is due by the 5th of the month, and must list all DBEs used on the Contract to meet the Contract goal, the specific Contract work items each DBE is performing, whether the DBE is performing full or partial work on the items, and the amount paid to each DBE each month. Failure to report the information, and accurately report it may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the Contract as specified in Section 108.
- d. Termination, Substitution or Replacement of DBEs.** Make good faith efforts to replace a DBE that is terminated or has otherwise failed to complete its work on the Contract with another certified DBE, to the extent needed to meet the Contract DBE goal. Notify the DCR/AA immediately of the DBE's inability or unwillingness to perform and provide reasonable documented evidence. Prior to termination, substitution or replacement of a DBE subcontractor, lower tier subcontractor, transaction expeditor, regular dealer, supplier, manufacturer or trucker, submit a Revised CR-266 – Schedule of DBE/ESBE/SBE Participation form to the Department naming the replacement DBE firm(s), type of work performed, specific Contract work items, whether the DBE is performing full or partial work on the items, dollar value and percent of total Contract for each DBE firm. Submit detailed written explanation of why each change is being made, including documented evidence of good faith effort(s) with the submission of the revised Form CR-266. Submit along with the revised CR-266: 1) a completed Confirmation of DBE Firm (Form CR-273) to demonstrate direct written confirmation from each DBE firm participating on the Contract, confirming the kind and amount of work that was provided on the Contractor's CR-266, and if applicable; 2) a completed DBE Regular

Dealer/Supplier Verification (Form CR-272) for all DBE Regular Dealers/Suppliers listed on the revised CR-266; and if applicable, 3) a completed DBE Trucking Verification (Form CR-274) for all DBE truckers listed on the revised CR-266 form. The Contractor is not permitted to complete any portion of the CR-273, CR-272 or CR-274 forms. Termination, substitution or replacement of DBEs shall be made as specified in Section 108. Termination or replacement of DBEs cannot be made without prior written approval of the Department as per 108.01.

- e. **Submission of Good Faith Effort Documentation.** If the Contractor is unable to meet the Contract goal for DBE participation, submit to the DCR/AA for review and approval, documented evidence of good faith efforts along with the monthly CR-267 form. This submission must include written details addressing each of the good faith efforts outlined in the Contract. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor is meeting the Contract DBE goal or made adequate good faith efforts to do so.

- F. **DBE Goals for the Contract.** This Contract includes a goal of awarding 10 percentage of the Total Contract Price to subcontractors, transaction expeditors, regular dealers, manufacturers and truckers qualifying as DBEs.

The Department's DCR/AA has sole authority to determine whether the Contractor met the goal or made adequate good faith efforts to do so. If the DCR/AA determines that the Contractor has failed to meet the Contract DBE goal or made adequate good faith efforts to do so, the Department will follow Section 105.

G. Counting DBE Participation.

1. Each DBE is subject to a certification procedure to ensure its DBE eligibility status prior to the award of the Contract. All DBEs working on the Contract must be certified DBEs. To receive DBE credit toward meeting a contract goal in the context of the contract award process, a DBE firm must be certified before the due date for bids or offers on the Contract, as stated in 49 CFR Part 26.81(c). There may be situations after the award of the Contract, however, in which it is appropriate to count DBE credit for the use of a DBE subcontractor certified after the contract is executed. To be eligible to obtain DBE credit, a DBE subcontractor must be certified before the subcontract on which it is working is executed.
2. The Department determines the percentage of DBE participation that will be counted toward the Contract DBE goal in accordance with 49 C.F.R. Part 26.55 et seq.
3. The Contractor will count DBE participation toward the Contract DBE goal only the value of the work actually performed by a certified DBE and only if the DBE performs a commercially useful function in the work of a contract as per 49 CFR, Subpart C, Part 26.55(c) and the Contract.
4. The Department will count DBE participation for DBE trucking firms in accordance with 49 C.F.R. Part 26.55 et seq. The DBE can count the entire value of services performed by DBE trucks. The DBE can count the value of non-DBE trucking services up to the value of services performed by DBE trucks used on the Contract. DBE participation can be counted for the value of services of non-DBE trucks that exceed the value of the services performed by DBE trucks only in the amount of the fee or commission a DBE receives as a result of the lease arrangement.
5. The Department will count DBE participation for DBE regular dealers, manufacturers and transaction expeditors in accordance with 49 C.F.R. Part 26.55 et seq. Transaction expeditors/brokers will not receive DBE credit for any portion of the cost of the materials and supplies themselves toward the Contract DBE goal. For brokers, only the DBE's fee or commission, and no part of the cost of the goods, count towards DBE goals. The Department will determine if the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. If a certified firm acts as a "regular dealer" in a given transaction, it is awarded DBE credit equivalent to 60 percent of the value of the items it supplies on that contract. This credit is awarded in recognition of the value the DBE adds to transaction and the risks that it takes.
6. If the Contractor is a certified DBE, payments made to the Contractor for work that the Contractor is certified to perform, and performed by the Contractor will be applied toward the Contract DBE goal. Payments made to the Contractor for work performed by non-DBEs will not be applied toward the Contract DBE goal.

7. When a DBE subcontractor sublets part of the work of its contract to another firm, the value of the subcontract work may be counted towards the Contract DBE goal only if the subcontractor itself is a certified DBE. Work that a DBE subcontractor subcontracts to a non-DBE firm, cannot be counted towards the Contract DBE goal.

H. Commercially Useful Function

1. **Performance of Work.** The DBE must perform the work with their own permanent employees, or employees recruited through traditional recruitment and/or employment centers. DBEs must employ and control their own workforce, and cannot share employees with the Contractor, other subcontractors on the present project, or the renter-lessor of equipment being used on the present project. The DBE firm must be responsible for all payroll and labor compliance requirements for all of their employees performing work on the Contract. Direct or indirect payments by any other contractor are not allowed.
2. **Managing Work.** The DBE must manage the work themselves including the scheduling of work operations, ordering of equipment and materials, hiring/firing of employees, including supervisory employees, and preparing and submitting certified payrolls. The DBE must supervise their portion of daily work operations of the project. With respect to materials and supplies used on the Contract, the DBE must be responsible for preparing the estimate, negotiating price, determining quantity and quality, ordering the material, arranging delivery; installing, (where applicable), and paying for the material and supplies itself, for the project.
3. **Responsibility of Work.** A DBE must perform or exercise responsibility for at least 30 percent of the total cost of its contract with its own workforce. The DBE must not subcontract a greater portion of the work of a contract than would be expected on the basis of normal industry practice for the type of work involved.
4. **Equipment of DBE.** The DBE must perform the work stated in the subcontract with their own equipment, whether owned or leased and operated on a long term agreement, not an ad hoc or contract by contract agreement. The equipment must be owned by the DBE firm, or leased/rented from traditional equipment lease/rental sources. The equipment will not belong to the Contractor, any other subcontractor or lower tier subcontractors on the current project, or supplier of materials being installed by the DBE firm.
5. **Lease of Equipment.** A DBE firm may lease specialized equipment from a contractor, but not from the Contractor, if it is consistent with normal industry practices and at rates competitive for the area. Rental agreements must be for short periods of time, specify the terms of the agreement and involve specialty equipment to be used at the job site. The lease may allow the operator to remain on the lessor's payroll, if it is the generally accepted industry practice but the operation of the equipment must be subject to full control by the DBE. The DBE is expected to provide the operator for non-specialized equipment, and is responsible for all payroll and labor compliance requirements. A separate lease agreement is required.
6. **DBE Trucking.** DBE trucking companies must perform a commercially useful function in accordance with 49 CFR Part 26.55 et seq. Contrived arrangements for the purpose of meeting DBE goals will not be allowed. The DBE must be responsible for the management and supervision of the entire trucking operation on a contract-by-contract basis, and must own and operate at least one fully, licensed, insured and operational truck used on the Contract.

The DBE trucking firm is not permitted to obtain trucks from the Contractor to perform work on the project. The DBE may lease trucks from a subcontractor working on the project, provided the trucks are obtained from the subcontractor prior to the project letting. The DBE may lease trucks from another DBE, including an owner-operator that is certified as a DBE. The DBE may also lease trucks from non-DBEs and owner-operators. Bona fide lease agreements must be for the length of time needed by the DBE on the Contract and signed by both the DBE and the firm(s), either certified DBE or non-DBE, from which the trucks will be leased. Leases must indicate that the DBE has exclusive use and control over the truck. As per 49 CFR Part 26.55(d)(7), all leased trucks, including non-DBE trucks, must display the name and USDOT identification number issued for interstate commerce, of the DBE firm on the outside of the truck. DBE firms are expected to use the

same trucks for DBE credit on all projects so use of leased vehicles on a project-by-project basis is not permitted.

The Contractor shall have signed Hiring Agreements. Submit copies of these signed Hiring Agreements, and copies of all signed lease agreements to the RE prior to the trucking firm's commencing work on the project. Prior to the DBE trucking firm beginning work on the Contract, DBE Trucking firms will be required to complete the DBE Trucking Verification (Form CR-274). The DBE and Contractor must sign the form and the Contractor submit the original CR-274 form directly to the Department's RE, with a copy submitted to the DCR/AA. The Contractor is not permitted to complete any portion of the CR-274 form. The Contractor must prepare, sign and submit with the CR-267 – Monthly Report of Utilization of DBE/ESBE or SBE form, a Monthly Trucking Verification form (CR-271), identifying each truck owner, DBE Certification number, company name and address, truck number, and commission or amount paid for all DBE and non-DBE truckers performing work on the project. Also, submit the form to the Department as per Section E of this Special Provision for DCR/AA review, approval and determination of credit toward the Contract goal. Failure to submit the forms may result in denial or limit of credit toward the Contract DBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions or termination of the Contract as specified in Section 108.

7. **DBE Regular Dealers.** DBE regular dealers must be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. In addition, a regular dealer must own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under this Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business.

When the Contractor seeks credit toward the Contract DBE goal using DBE regular dealers, the DBE Regular Dealer/Supplier Verification (Form CR-272) must be completed and signed by the DBE regular dealer and then signed by the Contractor. Submit the form to the Department as per Section E of this Special Provision for the DCR/AA's review, approval and determination of credit toward the Contract DBE goal.

8. **DBE Manufacturers.** DBE manufacturers must be a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required for this Contract.
9. The Contractor shall not use a DBE solely for the purpose of acting as an extra participant in a transaction, a contract or the Contract through which funds are passed in order to obtain the appearance of DBE participation.
- I. **Good Faith Effort.** To demonstrate good faith efforts to meet the Contract DBE goal, a Contractor shall, on an ongoing basis, document the steps it takes to obtain DBE participation in accordance with 49 CFR Part 26.53 and Appendix A, including but not limited to the following:
 1. Conducting market research to identify small business contractors and suppliers and soliciting through all reasonable and available means the interest of all certified DBEs that have the capability to perform the work of the Contract. This may include attendance at pre-bid and business matchmaking meetings and events, advertising and/or written notices, posting of Notices of Sources Sought and/or Requests for Proposals, written notices or emails to all DBEs listed in the State's directory of transportation firms that specialize in the areas of work desired (as noted in the DBE directory) and which are located in the area or surrounding areas of the project.

Should solicit this interest as early in the acquisition process as practicable to allow the DBEs to respond to the solicitation and submit a timely offer for the subcontract. Determine with certainty if the DBEs are interested by taking appropriate steps to follow up initial solicitations.
 2. Selecting portions of the work to be performed by DBEs in order to increase the likelihood that the DBE goals will be achieved. This includes, where appropriate, breaking out Contract work items into economically feasible units (for example, smaller tasks or quantities) to facilitate DBE participation, even when the Contractor might otherwise prefer to perform these work items with its

own forces. This may include, where possible, establishing flexible timeframes for performance and delivery schedules in a manner that encourages and facilitates DBE participation.

3. Providing interested DBEs with detailed information about the plans, specifications, and requirements of the Contract in a timely manner to assist them in responding to a solicitation with their offer for the subcontract. Attempt to contact all potential subcontractors on the same day and use similar methods to contact them;
4. Negotiating in good faith with interested DBEs. Make a portion of the work available to DBE subcontractors and suppliers and select those portions of the work or material needs consistent with the available DBE subcontractors and suppliers, so as to facilitate DBE participation. Evidence of such negotiation includes the names, addresses, and telephone numbers of DBEs that were considered; a description of the information provided regarding the plans and specifications for the work selected for subcontracting; and evidence as to why additional Agreements could not be reached for DBEs to perform the work.

Consider a number of factors in negotiating with subcontractors, including DBE subcontractors. Take a firm's price and capabilities as well as Contract goals into consideration. The fact that there may be some additional costs involved in finding and using DBEs is not in itself sufficient reason for failure to meet the contract DBE goal, as long as such costs are reasonable. The ability or desire of a Contractor to perform the work of a Contract with its own organization does not relieve the responsibility to make good faith efforts. Contractors are not, however, required to accept higher quotes from DBEs if the price difference is excessive or unreasonable.

5. Not rejecting DBEs as being unqualified without sound reasons based on a thorough investigation of their capabilities. The contractor's standing within its industry, membership in specific groups, organizations, or associations and political or social affiliations (for example union vs. non-union status) are not legitimate causes for the rejection or non-solicitation of bids in the Contractor's efforts to meet the Contract DBE goal. Another practice considered an insufficient good faith effort is the rejection of the DBE because its quotation for the work was not the lowest received. However, nothing in this paragraph shall be construed to require the Contractor to accept unreasonable quotes in order to satisfy the Contract DBE goal.

Inability to find a replacement DBE at the original price is not alone sufficient to support a finding that good faith efforts have been made to replace the original DBE. The fact that the Contractor has the ability and/or desire to perform the contract work with its own forces does not relieve the Contractor of the obligation to make good faith efforts to find a replacement DBE, and it is not a sound basis for rejecting a prospective replacement DBE's reasonable quote.

Attempt, wherever possible, to negotiate prices with potential subcontractors which submitted higher than acceptable price quotes.

Keep a record of efforts, including the names of businesses contacted and the means and results of such contacts.

6. Making efforts to assist interested DBEs in obtaining bonding, lines of credit, or insurance as required by the recipient or Contractor.
7. Making efforts to assist interested DBEs in obtaining necessary equipment, supplies, materials, or related assistance or services.
8. Effectively using the services of available minority/women community organizations; minority/women contractors' groups; local, State, and Federal minority/women business assistance offices; and other organizations as allowed on a case-by-case basis to provide assistance in the recruitment and placement of DBEs.

If the Contractor fails to meet the Contract DBE goal, they must submit documented evidence of good faith effort(s) with the CR-268 final DBE Report to the DCR/AA for review and approval. Submittal of such information does not imply DCR/AA approval. The Department's DCR/AA has sole authority to determine whether the Contractor met the Contract DBE goal or made adequate good faith efforts to do

so. If the DCR/AA determines that the Contractor has failed to meet the Contract DBE goal or made adequate good faith effort to do so, the Department will follow Section 105.

J. Submission of Affirmative Action Program

Contractors, subcontractors and professional service firms performing work for the Department are required to submit their company's Affirmative Action Program annually to the DCR/AA. Contractors must have an **approved** Affirmative Action Program on file in the DCR/AA no later than seven (7) State business days after the date of bid opening. No recommendations to award will be made without an approved Affirmative Action Program on file in the DCR/AA. Ensure subcontractors and professional service firms have an approved Affirmative Action Plan on file in the DCR/AA prior to their beginning work on a particular project.

The Annual Affirmative Action Program will include, but is not limited to the following:

1. Copy of company's comprehensive EEO/Affirmative Action Plan, with a cover page that includes the company name and address, and signature of the Chief Executive or EEO Officer.
2. Copy of document designating the company's corporate EEO Officer, including the name, address and contact telephone number for the officer, and signature of the Chief Executive or President, on company letterhead.
3. Copy of the company's EEO Policy Statement on company letterhead, dated and signed by the Chief Executive and the EEO Officer.
4. Copy of the company's Sexual Harassment Policy on company letterhead.
5. EEO Legend such as letterhead, envelope, or published advertisement showing the company is an equal opportunity employer.
6. Copy of document designating the company's DBE Liaison Officer to administer the firm's Disadvantaged Business Program.
7. DBE Affirmative Action Plan which is an explanation of affirmative action methods intended to be used to seek out and consider DBEs as subcontractors, material suppliers or equipment lessors. This refers to the Contractor's ongoing responsibility, i.e., Disadvantaged Business Enterprise/Affirmative Action activities after the award of the Contract and for the duration of the Contract.

K. DBE Liaison Officer. Designate a DBE Liaison Officer who shall be responsible for the administration of your DBE program in accordance with the Contract, and ensuring that the Contractor complies with all provisions of 49 CFR Part 26.

L. Consent by Department to Subletting. The Department will not approve any subcontract proposed by the Contractor unless and until said Contractor has complied with the terms of the Contract.

M. Conciliation. Allegations of breach of any obligation contained in these DBE provisions and guidelines, will be investigated by the DCR/AA, the Federal Highway Administration and/or the USDOT.

N. Documentation

1. **Requiring of Information.** The Department or the Federal funding agencies may at any time require information as specified in Section 107 and deemed necessary in the judgment of the Department to ascertain the compliance of any Bidder, Contractor or subcontractor with the terms of the Contract.
2. **Records and Reports.** The Contractor, subcontractors and other sub-recipients will keep such records as are necessary to determine compliance with its Disadvantaged Business Enterprise Utilization obligations. These records kept will be designed to indicate:
 - a. The names of DBE contractors, subcontractors, transaction expeditors and material suppliers contacted for work on the Contract, including when and how contacted, and the specific Contract work items and other information provided to each.
 - b. Work, services and materials which are not performed or supplied by the Contractor.
 - c. The actual dollar value of work subcontracted and awarded to DBEs, including specific Contract work items and cost of each work item.

- d. The progress being made and efforts taken in seeking out and utilizing DBEs to include: solicitations, specific Contract work items and the quotes and bids regarding those specific Contract work items, supplies, leases, or other contract items, etc.
 - e. Detailed written documentation of all correspondence, contacts, telephone calls, etc., including names and dates/times, to obtain the services of DBEs on the Contract.
 - f. Records of all DBEs and non-DBEs who have submitted quotes/bids to the Contractor on the Contract.
 - g. Monthly CR-267 – Monthly Report, Utilization of DBE/ESBE or SBE, and other reports required for submission to the Department, hiring agreements, subcontracts, lease agreements, equipment rental agreements, supply tickets, delivery slips, payment information, and other records documenting DBE utilization on the Contract.
 - h. Documentation outlining EEO workforce information for the Contract.
 - i. Documentation outlining EEO and Affirmative Action efforts made in the administration and performance of the Contract.
- 3. Submission of Reports, Forms and Documentation.** Submit reports, forms and documentation, as required by the Department, on those contracts and other business transactions executed with DBEs in such form and manner as may be prescribed by the Department. Failure to submit the required forms, reports or other documentation as required may result in payment being delayed or withheld as specified in Section 105, assessing sanctions, or termination of the contract as specified in Section 108. Submission of falsified forms, reports or other required documentation may result in termination of the Contract as specified in Section 108, investigation by the Department's Inspector General or U.S. DOT, or both, and prosecution by the State Attorney General's Office or U.S. Department of Justice, or both.
- 4. Maintaining Records.** All records must be maintained for a period of three (3) years following acceptance of final payment and will be available for inspection by the Department, or the Federal funding agencies.
- O. Prompt Payment to Subcontractors.** On Federal Aid Projects, payment to subcontractors, equipment lessors, suppliers and manufacturers is made in accordance with Section 109.
- P. Non-Compliance.** Failure by the Contractor to comply with the DBE program, rules and regulations of 49 CFR Part 26 in the administration of the Contract may result in denial or limit of credit toward the Contract DBE goal, payment being delayed or withheld as specified in Section 105, assessing sanctions, liquidated damages as specified in Section 108, default as specified in Section 108, debarment, or termination of the Contract as specified in Section 108. The Contractor may further be declared ineligible for future Department contracts.

FEDERAL AID PROJECT ATTACHMENT 2

SPECIFIC EQUAL EMPLOYMENT OPPORTUNITY RESPONSIBILITIES ON NJDOT FEDERAL AID PROJECTS

(23 CFR, PART 230, SUBPART A, APPENDIX A TO SUBPART A - SPECIAL PROVISIONS)

The Contractor is obligated to comply with the policies, procedures and guidelines relative to the implementation of an Equal Employment Opportunity Program on Federal and Federal Aid Highway construction contracts, except for those contracts awarded under 23 U.S.C. 117, and to the preparation and submission of reports pursuant thereto as per 23 CFR, Part 230, Subpart A, Appendix A to Subpart A - Special Provisions.

A. General

1. **Equal Employment Opportunity Requirements.** Equal employment opportunity requirements not to discriminate and to take affirmative action to assure equal employment opportunity as required by Executive Order 11246 and Executive Order 11375 are set forth in Required Contract, Provisions (Form FHWA-1273 or 1316, as appropriate) and these Special Provisions which are imposed pursuant to 23 USC 140, as established by Section 22 of the Federal Aid Highway Act of 1968. The requirements set forth in the Contract constitute the specific affirmative action requirements for project activities under this Contract and supplement the equal employment opportunity requirements set forth in the Required Contract Provisions.
2. The Contractor will work with the State agencies and the Federal Government in carrying out Equal Employment Opportunity obligations and in their review of activities under the contract.
3. The Contractor, and all subcontractors holding subcontracts, not including material suppliers, of \$10,000 or more, will comply with the following minimum specific requirement activities of Equal Employment Opportunity: (The equal employment opportunity requirements of Executive Order 11246, as set forth in Volume 6, Chapter 4, Section 1, Subsection 1 of the Federal-Aid Highway Program Manual, are applicable to material suppliers, as well as contractors and subcontractors.) The Contractor will include these requirements in every subcontract of \$10,000 or more with such modification of language as is necessary to make them binding on the subcontractor.

- B. Equal Employment Opportunity Policy.** The Contractor will accept as its operating policy the following statement which is designed to further the provisions of equal employment opportunity to all persons without regard to their race, color, religion, sex, or national origin, and to promote the full realization of equal employment opportunity through a positive continuing program:

“It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training.”

- C. Equal Employment Opportunity Officer.** The Contractor will designate and make known to the County contracting officers an Equal Employment Opportunity Officer (hereinafter referred to as the EEO Officer) who will have the responsibility for and must be capable of effectively administering and promoting an active EEO contractor program and who must be assigned adequate authority and responsibility to do so.

D. Dissemination of Policy

1. **Implementation.** All members of the Contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommended such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the Contractor's equal employment opportunity policy and contractual responsibilities to provide equal employment opportunity in each grade and classification of employment. To ensure compliance with the above agreement, the following actions will be taken as a minimum:

- a. **Initial Project Site Meeting.** Conduct an initial project site meeting with key supervisory and office personnel before or at the start of work, and then not less than once every 6 months, at which time the Contractor's Equal Employment Opportunity policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer.
 - b. **EEO Obligations.** All new supervisory and office personnel will be given a thorough indoctrination by the EEO Officer or other knowledgeable company official covering all major aspects of the Contractor's equal employment opportunity obligations within 30 days following their reporting for duty with the Contractor.
 - c. All personnel engaged in direct recruitment for the project will be instructed by the EEO Officer or appropriate company official in the Contractor's procedures for locating and hiring minority and female employees.
2. Take the following actions to make the Contractor's equal employment opportunity policy known to all employees, prospective employees and potential sources of employees, i.e., schools, employment agencies, labor unions (where appropriate), college placement officers, etc.:
 - a. Place notices and posters setting forth the Contractor's equal employment opportunity policy in areas readily accessible to employees, applicants for employment and potential employees.
 - b. Bring the Contractor's equal employment opportunity policy and the procedures to implement such policy to the attention of employees by means of meetings, employee handbooks, and/or other appropriate means.

E. Recruitment

1. When advertising for employees, include in all advertisements for employees the notation: "An Equal Opportunity Employer". Publish all such advertisements in newspapers or other publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.
2. Unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority and female applicants, including, but not limited to, State employment agencies, schools, colleges and minority-group organizations. To meet this requirement, the Contractor will, through their EEO Officer, identify sources of potential minority and female group employees, and establish procedures with such identified sources whereby minority and female group applicants may be referred to the Contractor for employment consideration.
3. In the event the Contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, he/she is expected to observe the provisions of that agreement to the extent that the system permits the Contractor's compliance with the equal employment opportunity contract provisions. (The US Department of Labor has held that where implementation of such agreements have the effect of discriminating against minorities or women, or obligates the Contractor to do the same, such implementation violates Executive Order 11246, as amended).
4. Encourage present employees to refer minority and female applicants for employment by posting appropriate notices or bulletins in areas accessible to all such employees. In addition, information and procedures pertaining to the referral of applicants will be discussed with employees.

F. Personnel Actions.

Wages, working conditions and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

1. Conduct a project site inspection at the start of work, and periodically thereafter, to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.
2. Periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.
3. Periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the Contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

4. Promptly investigate all complaints of alleged discrimination made to the Contractor in connection with its obligations under this Contract, and will resolve or attempt to resolve such complaints, within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, corrective action shall include such other persons. Upon completion of each investigation, inform complainants of all their avenues of appeal.

G. Training and Promotion

1. Assist in locating, qualifying, and increasing the skills of minority and women who are applicants for employment or current employees.
2. Advise employees and applicants for employment of available training programs and entrance requirements for each.
3. Periodically review the training and promotion potential of minority and female employees and encourage eligible employees to apply for such training and promotion.

H. On-the-Job Training. The Contractor, as part of their equal employment opportunity affirmative action program, shall provide on-the-job training aimed at developing full journey people in the type of craft or job classification involved on the project.

1. Apprenticeship and Training Programs

The minimum length and type of training for each position will be established in the training program selected by the Contractor and approved by the Department and the Federal Highway Administration. The County will approve a program if it is reasonably calculated to meet the equal employment opportunity obligations of the Contractor and to qualify the average apprentice or trainee for journey person status in the craft concerned by the end of the training period.

Apprenticeship programs registered with the US Department of Labor, Bureau of Apprenticeship and Training, (BAT) or with a State apprenticeship agency recognized by USDOL BAT and training programs approved but not necessarily sponsored by the US Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training shall also be considered acceptable provided such programs are being administered in a manner consistent with the equal employment obligations of Federal-aid highway contracts. Approval or acceptance of a training program shall be obtained from the DCR/AA prior to commencing work in the classifications covered by the Contractor's training program. The Division will review guidelines developed by the Contractor for approval or disapproval in accordance with the Training Guideline Approval Process described in the "Revised Standard Training Guidelines". The Division will also review existing guidelines for revision based on the same process.

It is the intention of these provisions that training be provided in construction crafts rather than clerk-typist or secretarial-type positions. Training is permitted in lower level management positions (e.g., timekeepers), where the training is oriented toward project site applications. Training in semi-skilled laborer positions is permitted provided that significant and meaningful training is available on the project site and approved by DCR/AA. Some offsite, classroom training (e.g., safety, first aid instruction) may be permitted as long as such training is an integral part of an approved training program and does not comprise a significant part of the overall training.

2. Contractor Submission and County Approval of the Initial Training Program

At or after the preconstruction conference, and prior to the start of Work, submit a Training Program to the RE for review and comments prior to DCR/AA review and approval. The Contractor's training program shall include:

- a. Number of trainees or apprentices to be trained in all selected Training Positions,
- b. Standard Program Hours for all positions,
- c. Estimate of the Minimum Available Hours actually feasible on the project toward completion of the Standard Program Hours per position,
- d. Training schedule of Estimated Start Dates for the apprentices or trainees, developed and coordinated with the project's work progress schedule,
- e. Training Guidelines for all positions, and
- f. Training that will be provided by the Contractor and provided by Subcontractors.

The number of apprentices and trainees shall be distributed among the work classifications on the basis of the Contractor's needs and the availability of journey people in the various crafts within a reasonable area of recruitment. Submit timely, revised Training Programs, as required throughout the project to ensure that feasible and Maximum Available Training is provided. Maximum Available Training is defined as bringing each apprentice or trainee onto the project when work first becomes available in his/her craft and providing all available training until hours are no longer available.

3. Assignment of Training to Subcontractors

In the event that portions of the Contract work are subcontracted, determine how many, if any, of the apprentices or trainees are to be trained by subcontractors, provided, however, that the Contractor shall retain the primary responsibility for meeting the training requirements imposed by these Training Special Provisions. Ensure that these Training Special Provisions are made applicable to such subcontracts.

4. Reimbursement of the Contractor for Providing Training

The Contractor will be credited for each apprentice or trainee employed on the construction site who is currently enrolled or becomes enrolled in an approved program and will be reimbursed for such apprentices or trainees as provided hereinafter. Payment will be made under the pay item Trainees at the bid price in the Proposal per person-hour of training given an employee on this contract in accordance with an approved training program. If approved, payment will be made for training persons in excess of the number specified herein. This reimbursement will be made even though the Contractor receives additional training program funds from other sources, provided such other sources do not specifically prohibit the Contractor from receiving other reimbursement. Offsite, classroom training reimbursement may only be made to the Contractor when the company does one or more of the following and the apprentices or trainees are concurrently employed on a Federal-aid project: contributes to the cost of the training and/or provides instruction to apprentices or trainees or pays their wages during the offsite, classroom training (e.g., safety, first aid instruction) period.

Pay apprentices and trainees according to the project-specific New Jersey Department of Labor Prevailing Wage Rate Determination for the project. Trainees will be paid at least 60 percent of the appropriate minimum journeyman's rate specified in the Contract for the first half of the training period, 75 percent for the third quarter of the training period, and 90 percent for the last quarter of the training period, unless apprentices or trainees in an approved existing program are enrolled as trainees on this project. In that case, the appropriate rates approved by the Departments of Labor or Transportation in connection with the existing program shall apply to all trainees being trained for the same classification who are covered by this Training Special Provision.

I. Apprentice/Trainee Requirements of the Contract

The number of training positions will be 5, where feasible, consisting of at least 0 APPRENTICES and 5 TRAINEES. TRAINEE HOURS = 2850.

Apprentices are defined as registered members of an approved apprenticeship program recognized by the United States Department of Labor (USDOL) Bureau of Apprenticeship and Training (BAT) or a New Jersey State apprenticeship agency recognized by USDOL BAT (e.g., New Jersey Department of Education). Graduates of the Pre-Apprenticeship Training Cooperative Program shall be classified as apprentices. Trainees are defined as skilled, semi-skilled or lower level management individuals receiving training per one of the approved NJDOT "Revised Standard Training Guidelines" (available from the DCR/AA).

Where feasible, assign at least 50% of the training positions to Skilled Crafts which include but are not limited to Carpenters, Dockbuilders, Electricians, Ironworkers and Operating Engineers.

1. Requirements for Recruitment, Selection and Approval of Apprentices and Trainees

Apprentices or trainees should be in their first year of apprenticeship or training. Interview and screen trainee candidates to determine if their actual work experience is equivalent to or exceeds that offered by the training program prior to submitting candidates on the Apprentice/Trainee Approval Memorandum (Form CR-1), via the RE, to the Division for review and approval or disapproval.

Training and upgrading of minorities (e.g., Blacks, Asians or Pacific Islanders, Native Americans or Alaskan Natives, Hispanics) and women toward journeyperson status is a primary objective of these Training Special Provisions. Accordingly, the Contractor shall make every effort to enroll minorities and women, by conducting systematic and direct recruitment through public and private sources likely to yield minority and female apprentices or trainees, to the extent that such persons are available within a reasonable area of recruitment. This training commitment is not intended, and shall not be used, to discriminate against any applicant for training, whether a member of a minority group or not.

No employee shall be employed as an apprentice or trainee in any position in which he or she has successfully completed a training course leading to journeyperson status or in which he or she has been employed as a journeyperson. The Contractor shall satisfy this requirement by including appropriate questions in the employment application or by other suitable means and by submitting an accurate and complete "Apprentice/Trainee Approval Memorandum" (Form CR-1) prior to the apprentice or trainee starting work on the project. Regardless of the methods used, the Contractor's records should document the findings in each case.

Skilled craft trainees may complete up to 3,000 total training hours on County projects, with an extension of an additional 1,000 hours permitted on a case-by-case basis. Semi-skilled and lower-level management trainees attain journeyperson status upon completion of a training guideline and may complete up to three (3) different positions.

2. Documentation Required to be Signed by Apprentices or Trainees, and provided to the County

Prior to the apprentice/trainee starting work on the project, submit an accurate, complete and signed Apprentice/Trainee Approval Memorandum for each apprentice/trainee to the RE for review, and final approval by DCR/AA. Once the notice that said apprentice/trainee has been approved to work on the Contract, said apprentice/trainee may start work on the Contract. No credit will be given for apprentices/trainees prior to said apprentice/trainee being approved by DCR/AA.

At the start of training, provide the RE and each apprentice or trainee with an applicable "Training Guideline" and, at the conclusion of training, an accurate and complete "Training Certificate for Reporting Hours to NJDOT" (Form CR-3), showing hours of training satisfactorily completed.

Maintain and submit an accurate and complete "NJDOT Contractor's 1409 Quarterly Training Report" (Form-CR-1409) to the RE within ten (10) days of the end of each training quarter (e.g., January 10, April 10, July 10, October 10); also provide a copy to each apprentice or trainee.

Maintain and submit accurate and complete "Biweekly Training Reports" (Form CR-2) to the RE, and each apprentice or trainee, as periodic reports documenting their performance under the Contract.

3. Determining Good Faith Compliance of Contract Apprentice/Trainee Program

Per the approved program or guideline, provide Maximum Available Training to apprentices and trainees by beginning their training as soon as feasible with the start of craft work utilizing the skill involved on the project construction site and by retaining them as long as training opportunities exist in their crafts or until their training program positions are completed.

Recall apprentices or trainees released due to reductions in force when the work scope permits and they are available to return. When they are unavailable to resume training on the project site, submit written proof of recall efforts and replacement candidates and/or positions in a timely manner. Do not terminate apprentices or trainees prior to completion of their training program positions without County consultation and authorization. Apprentices or trainees are not required to be on board for the entire length of the Contract.

The Contractor shall have fulfilled the contractual responsibilities under these Training Special Provisions as specified in 23 CFR 230, Appendix B to Subpart A of Part 230 if the company has provided Acceptable Training to the number of apprentices or trainees specified in this contract and/or by providing the remaining hours required to complete training positions begun by apprentices or trainees on other projects. The number trained shall be determined on the basis of the total number enrolled on the Contract for a significant period.

Demonstrate all steps that have been taken in pursuance of enrolling minorities and women in the training program positions, prior to a determination as to whether the Contractor is in compliance with the Training Special Provisions of the Contract.

Submit to the RE written training program summaries at the 50% time and/or cost stage of the contract and also prior to project completion, describing all good faith efforts and particularly addressing Maximum Available Training for incomplete training positions, per the procedure found in the revised "Instructions for Implementing the Training Special Provisions".

4. Enforcement Measures and Contractor's Rating

Payment will not be made if either the failure to provide the required training or the failure to hire the apprentice or trainee as a journey person is caused by the Contractor and evidences a lack of good faith on the part of the Contractor in meeting the requirements of the Contract.

Per established procedures and scheduled Contract Compliance Reviews, the Contractor's performance will be rated and reviewed periodically by the County.

Failure of a Contractor to comply with the Training Special Provisions of the Contract, and as specified in 23 CFR Part 230, Appendix B to Subpart A of Part 230, may result in the actions as set forth as specified in Section 105.

J. Unions. If the Contractor relies in whole or in part upon unions as a source of employees, use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women within the unions, and to effect such union referrals to the construction project. Actions by the Contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

1. Use maximum effort to develop, in cooperation with the unions, joint training programs aimed at qualifying more minorities and women for union membership and increasing their skills in order for them to qualify for higher paying employment.
2. Use maximum effort to incorporate an equal employment opportunity clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.
3. Obtain information concerning the referral practices and policies of the labor unions except that to the extent such information is within the exclusive possession of the labor unions and such labor unions refuse to furnish this information to the Contractor, certify to the County and set forth what efforts have been made to obtain this information.
4. In the event the unions are unable to provide the Contractor with a reasonable flow of minority and female referrals within the time limit set forth in the collective bargaining agreement, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability, making full efforts to obtain qualified and/or qualifiable minorities and women. (The US Department of Labor has held that it shall be no excuse that the union with which the Contractor has a collective bargaining agreement providing for exclusive referral failed to refer minority employees). In the event the union referral practice prevents the Contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such Contractor shall immediately notify the County.

K. Subcontracting

1. Use maximum effort to solicit bids from and to utilize minority subcontractors or subcontractors with meaningful minority and female representation among their employees. The Contractor may use lists of minority-owned construction firms as issued by the County.
2. Ensure subcontractor compliance with the Contract Equal Employment Opportunity obligations.

L. Records and Reports

1. Maintain records necessary to determine compliance with the Contractor's equal employment opportunity requirements. Documents will include the following:
 - a. Number of minorities, non-minorities, and women employed in each work classification on the Contract.

- b. Progress and efforts being made in cooperation with unions to increase employment opportunities for minorities and women (applicable only to Contractors who rely in whole or in part on unions as a source of their work force).
 - c. Progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees, and
 - d. Progress and efforts being made in securing the services of minority and female subcontractors or subcontractors with meaningful minority and female representation among their employees.
2. All such documents must be retained for a period of 3 years following completion of the Contract work and shall be available at reasonable times and places for inspection by authorized representatives of the County and the Federal funding agencies.

FEDERAL AID PROJECT ATTACHMENT 3

REQUIREMENTS FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY ON NJDOT FEDERAL AID PROJECTS

(MINORITY AND WOMEN WORK EMPLOYMENT GOAL OBLIGATIONS)

A. Employment Goals.

The goals for minority and female participation, in the covered area, expressed in percentage terms for the Contractor's aggregate work force in each trade, on all construction work are:

Minority And Women Employment Goal Obligations For Construction Contractors and Subcontractors on Federal Aid Projects		
County	Minority Participation	Women Participation
	Percent	Percent
Atlantic	18.2	6.9
Bergen	22.6	6.9
Burlington	17.3	6.9
Camden	17.3	6.9
Cape May	14.5	6.9
Cumberland	16.0	6.9
Essex	17.3	6.9
Gloucester	17.3	6.9
Hudson	12.8	6.9
Hunterdon	17	6.9
Mercer	16.4	6.9
Middlesex	5.8	6.9
Monmouth	9.5	6.9
Morris	17.3	6.9
Ocean	17	6.9
Passaic	12.9	6.9
Salem	12.3	6.9
Somerset	17.3	6.9
Sussex	17	6.9
Union	17.3	6.9
Warren	1.6	6.9

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or Federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its Federally involved and non-Federally involved construction.

The Contractor's compliance with the Executive Order 11246 and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations

required by the specifications set forth in 41 CFR 60-4(3)a, and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the Contract, and in each trade. Make a good faith effort to employ minorities and women evenly on each project. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for sole purpose of meeting the Contractor's goals is a violation of the Contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

If a project is located in more than one county, the minority work hour goal, only, will be determined by the county which serves as the primary source of hiring or, if workers are obtained almost equally from one or more counties, the single minority goal will be the average of the affected county goals.

B. Reporting Requirements.

1. Provide the County with written notification in triplicate within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification will list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the contract is to be performed.
2. Directly provide the County with employment workforce data of the number and work hours of minority and non-minority group members and women employed in each work classification for the Contract. The Contractor, subcontractors, professional service firms and others working on the project must submit this information via a web-based application through the New Jersey portal, Vendor Workforce Reporting Manager. Instructions on how to complete Form CC-257R are provided within the web application. Instructions for registering and receiving the authentication code to access the web based application can be found at the Contractor Manpower Project Reporting CC-257R website at: <http://www.state.nj.us/transportation/business/civilrights/pdf/cc257.pdf>.
 - a. On a monthly basis, submit Form CC-257R through the web based application within 10 days following the end of each reporting month.
 - b. In addition to the above, submit a hard copy of the electronic Form CC-257R to the RE within 10 days following the end of each reporting month
 - c. Submit a copy of the confirmation e-mail of the successful submission of Monthly Employment Utilization Report to the RE within 10 days following the end of each reporting month.
3. All employment data must be accurate and consistent with the certified payroll records. The Contractor is responsible for ensuring compliance with these reporting requirements. Failure of the Contractor, subcontractors, professional service firms and others working on the Contract, to report monthly employment data may result in payments being delayed or withheld as per 105.01, or impact the Contractor's prequalification rating with the County.

FEDERAL AID PROJECT ATTACHMENT 4

FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONTRACT SPECIFICATIONS FOR NJDOT FEDERAL AID PROJECTS

(AS REQUIRED PER EXECUTIVE ORDER 11246 AS AMENDED BY EXECUTIVE ORDER 11375 AND IMPLEMENTING REGULATIONS AT 41 C.F.R. PART 60)

A. As used in these Specifications:

1. Covered area means the County or Counties in which the Project is located.
2. Director means Director, Office of Federal Contract Compliance Programs, United States Department of Labor or any person to whom the Director delegates authority.
3. Employer identification number means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, US Treasury Department Form 941.
4. Minority includes:
 - a. Black (a person having origins in any of the black African racial groups not of Hispanic origin);
 - b. Hispanic (a person of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race);
 - c. Asian and Pacific Islander (a person having originals in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - d. American Indian or Alaskan Native (a person having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participating or community identification).

B. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

C. Implement the specific affirmative action standards provided in paragraphs F1 through 16 of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction Contractors performing construction work in geographical areas where they do not have a Federal or Federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

D. Neither the provisions of any collective bargaining agreement nor the failure by a union with whom the Contractor has a collective bargaining agreement to refer either minorities or women excuses the Contractor's obligations under these Specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

E. In order for the nonworking training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the US Department of Labor.

F. Take specific affirmative action to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. Document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

1. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. Where possible, assign

two or more women to each construction project. Specifically ensure that all foreman, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment with specific attention to minority or female individuals working at such sites or in such facilities.

2. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
3. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred back to the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
4. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
5. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the source compiled under F2 above.
6. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc. by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
7. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
8. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
9. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
10. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
11. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

12. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 13. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 14. Ensure that all facilities and company activities are provided in a manner such that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin cannot result. Do not require such segregated use by written or oral policies, nor tolerate such use by employee custom. Provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.
 15. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction Contractor and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 16. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
- G. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (F1 through 16). The efforts of a Contractor association, joint contractor union, Contractor-Community, or other similar group of which the Contractor is a member and participant may be asserted as fulfilling any one or more of its obligations under F1 through 16 of these Specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.
- H. A single goal for minorities and a separate single goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women both minority and nonminority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
- I. Do not use the goals and timetables or affirmative action standards to discriminate against any person because of race, creed, color, national origin, age, ancestry, nationality, gender, disability, sex, affectional or sexual orientation, gender identity or expression, religion, and liability for military service.
- J. Do not enter into any Subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
- K. Carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspensions, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246 as amended.
- L. Implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph F of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

- M. Designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone number, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (such as mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
- N. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (such as those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
- O. Failure of the Contractor or subcontractors to comply with the nondiscrimination provisions of the Contract may result in payment being delayed or withheld as specified in 105.01; default as specified in 108.14, liquidated damages as specified in 108.20, or termination of the Contract as specified in 108.15.02 pending corrective and appropriate measures taken by the Contractor to the satisfaction of the County.

FEDERAL AID PROJECT ATTACHMENT 5

STATE OF NEW JERSEY MANDATORY EQUAL EMPLOYMENT OPPORTUNITY LANGUAGE ON NJDOT FEDERAL AID PROJECTS

(N.J.S.A. 10:5-31 ET SEQ. (P.L.1975, C.127) N.J.A.C. 17:27-1.1 ET SEQ.)

During the performance of this contract, the contractor agrees as follows:

The Contractor or subcontractor, where applicable, will not discriminate against any employee or applicant for employment because of age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Except with respect to affectional or sexual orientation and gender identity or expression, the Contractor will ensure that equal employment opportunity is afforded to such applicants in recruitment and employment, and that employees are treated during employment, without regard to their age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex. Such equal employment opportunity shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the County setting forth provisions of this nondiscrimination clause.

The Contractor or subcontractor, where applicable will, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to age, race, creed, color, national origin, ancestry, marital status, affectional or sexual orientation, gender identity or expression, disability, nationality or sex.

The Contractor or subcontractor will send to each labor union, with which it has a collective bargaining agreement, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under this act and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

The Contractor or subcontractor, where applicable, agrees to comply with any regulations promulgated by the Treasurer, pursuant to N.J.S.A. 10:5-31 et seq., as amended and supplemented from time to time and the Americans with Disabilities Act.

When hiring or scheduling workers in each construction trade, the Contractor or subcontractor agrees to make good faith efforts to employ minority and women workers in each construction trade consistent with the targeted employment goal prescribed by N.J.A.C. 17:27-7.2; provided, however, that the Dept. of LWD, Construction EEO Monitoring Program, may, in its discretion, exempt a contractor or subcontractor from compliance with the good faith procedures prescribed by the following provisions, A, B, and C, as long as the Dept. of LWD, Construction EEO Monitoring Program is satisfied that the Contractor or subcontractor is employing workers provided by a union which provides evidence, in accordance with standards prescribed by the Dept. of LWD, Construction EEO Monitoring Program, that its percentage of active "card carrying" members who are minority and women workers is equal to or greater than the targeted employment goal established in accordance with N.J.A.C. 17:27-7.2. The Contractor or subcontractor agrees that a good faith effort shall include compliance with the following procedures:

- A. If the Contractor or subcontractor has a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor shall, within three business days of the contract award, seek assurances from the union that it will cooperate with the Contractor or sub-contractor as it fulfills its affirmative action obligations under this contract and in accordance with the rules promulgated by the Treasurer pursuant to N.J.S.A. 10:5-31 et. seq., as supplemented and amended from time to time and the Americans with Disabilities Act. If the Contractor or subcontractor is unable to obtain said assurances from the construction trade union at least five business days prior to the commencement of construction work, the Contractor or sub-contractor agrees to afford equal employment opportunities minority and women workers directly, consistent with this chapter. If the Contractor's or subcontractor's prior experience

with a construction trade union, regardless of whether the union has provided said assurances, indicates a significant possibility that the trade union will not refer sufficient minority and women workers consistent with affording equal employment opportunities as specified in this chapter, the Contractor or subcontractor agrees to be prepared to provide such opportunities to minority and women workers directly, consistent with this chapter, by complying with the hiring or scheduling procedures prescribed under “B” below; and the Contractor or subcontractor further agrees to take said action immediately if it determines that the union is not referring minority and women workers consistent with the equal employment opportunity goals set forth in this chapter.

- B. If good faith efforts to meet targeted employment goals have not or cannot be met for each construction trade by adhering to the procedures of “A” above, or if the contractor does not have a referral agreement or arrangement with a union for a construction trade, the Contractor or subcontractor agrees to take the following actions:
1. To notify the public agency compliance officer, the Dept. of LWD, Construction EEO Monitoring Program, and minority and women referral organizations listed by the Division pursuant to N.J.A.C. 17:27-5.3, of its workforce needs, and request referral of minority and women workers;
 2. To notify any minority and women workers who have been listed with it as awaiting available vacancies;
 3. Prior to commencement of work, to request that the local construction trade union refer minority and women workers to fill job openings, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade;
 4. To leave standing requests for additional referral to minority and women workers with the local construction trade union, provided the Contractor or subcontractor has a referral agreement or arrangement with a union for the construction trade, the State Training and Employment Service and other approved referral sources in the area;
 5. If it is necessary to lay off some of the workers in a given trade on the construction site, layoffs shall be conducted in compliance with the equal employment opportunity and non-discrimination standards set forth in this regulation, as well as with applicable Federal and State court decisions;
 6. To adhere to the following procedure when minority and women workers apply or are referred to the contractor or subcontractor:
 - a. The Contractor or subcontractor shall interview the referred minority or women worker.
 - b. If said individuals have never previously received any document or certification signifying a level of qualification lower than that required in order to perform the work of the construction trade, the contractor or subcontractor shall in good faith determine the qualifications of such individuals. The Contractor or subcontractor shall hire or schedule those individuals who satisfy appropriate qualification standards in conformity with the equal employment opportunity and non-discrimination principles set forth in this chapter. However, a Contractor or subcontractor shall determine that the individual at least possesses the requisite skills, and experience recognized by a union, apprentice program or a referral agency, provided the referral agency is acceptable to the Dept. of LWD, Construction EEO Monitoring Program. If necessary, the Contractor or subcontractor shall hire or schedule minority and women workers who qualify as trainees pursuant to these rules. All of the requirements, however, are limited by the provisions of “C” below.
 - c. The name of any interested women or minority individual shall be maintained on a waiting list, and shall be considered for employment as described in (i) above, whenever vacancies occur. At the request of the Dept. of LWD, Construction EEO Monitoring Program, the Contractor or subcontractor shall provide evidence of its good faith efforts to employ women and minorities from the list to fill vacancies.
 - d. If, for any reason, said Contractor or subcontractor determines that a minority individual or a woman is not qualified or if the individual qualifies as an advanced trainee or apprentice, the Contractor or subcontractor shall inform the individual in writing of the reasons for the determination, maintain a copy of the determination in its files, and send a copy to the public agency compliance officer and to the Dept. of LWD, Construction EEO Monitoring Program.
 7. To keep a complete and accurate record of all requests made for the referral of workers in any trade covered by the contract, on forms made available by the Dept. of LWD, Construction EEO Monitoring

Program and submitted promptly to the Dept. of LWD, Construction EEO Monitoring Program upon request.

- C. The Contractor or subcontractor agrees that nothing contained in "B" above shall preclude the Contractor or subcontractor from complying with the union hiring hall or apprenticeship policies in any applicable collective bargaining agreement or union hiring hall arrangement, and, where required by custom or agreement, it shall send journeymen and trainees to the union for referral, or to the apprenticeship program for admission, pursuant to such agreement or arrangement. However, where the practices of a union or apprenticeship program will result in the exclusion of minorities and women or the failure to refer minorities and women consistent with the targeted county employment goal, the Contractor or subcontractor shall consider for employment persons referred pursuant to "B" above without regard to such agreement or arrangement; provided further, however, that the Contractor or subcontractor shall not be required to employ women and minority advanced trainees and trainees in numbers which result in the employment of advanced trainees and trainees as a percentage of the total workforce for the construction trade, which percentage significantly exceeds the apprentice to journey worker ratio specified in the applicable collective bargaining agreement, or in the absence of a collective bargaining agreement, exceeds the ratio established by practice in the area for said construction trade. Also, the Contractor or subcontractor agrees that, in implementing the procedures of "B" above, it shall, where applicable, employ minority and women workers residing within the geographical jurisdiction of the union.

After notification of award, but prior to signing a construction contract, the Contractor shall submit to the County and the Department of LWD, Construction EEO Monitoring Program an initial project workforce report (Form AA-201) electronically provided to the County by the Department of LWD, Construction EEO Monitoring Program, through its web-site, for distribution to and completion by the Contractor, in accordance with N.J.A.C. 17:27-7. The Contractor also agrees to submit a copy of the Monthly Project Workforce Report once a month thereafter for the duration of this contract to the Dept. of LWD, Construction EEO Monitoring Program, and to the Department.

The Contractor agrees to cooperate with the public agency in the payment of budgeted funds, as is necessary, for on-the-job and/or off-the-job programs for outreach and training of minorities and women.

- D. The Contractor and its subcontractors shall furnish such reports or other documents to the Dept. of LWD, Construction EEO Monitoring Program as may be requested by the Dept. of LWD, Construction EEO Monitoring Program from time to time in order to carry out the purposes of these regulations, and public agencies shall furnish such information as may be re-requested by the Dept. of LWD, Construction EEO Monitoring Program for conducting a compliance investigation pursuant to N.J.A.C. 17:27-1.1 et seq.

It is the policy of the NJDOT that its contracts should create a work-force that reflects the diversity of the State of New Jersey. Therefore, contractors engaged by the NJDOT to perform under a construction contract shall put forth a good faith effort to engage in recruitment and employment practices that further the goal of fostering equal opportunities to minorities and women.

The Contractor must demonstrate to the NJDOT satisfaction that a good faith effort was made to ensure that minorities and women have been afforded equal opportunity to gain employment under the NJDOT contract with the Contractor. Payment may be withheld from a Contractor's contract for failure to comply with these provisions.

Evidence of a "good faith effort" includes, but is not limited to:

1. The Contractor shall recruit prospective employees through the New Jersey Career Connections website, managed by the Department of Labor and Workforce Development, available online at: http://careerconnections.nj.gov/careerconnections/for_businesses.shtml
2. The Contractor shall keep specific records of its efforts, including records of all individuals interviewed and hired, including the specific numbers of minorities and women;
3. The Contractor shall actively solicit and shall provide the NJDOT with proof of solicitations for employment, including but not limited to advertisements in general circulation media, professional service publications and electronic media; and
4. The Contractor shall provide evidence of efforts described at 2 above to the NJDOT no less frequently than once every 12 months.
5. The Contractor shall comply with the requirements set forth at N.J.A.C. 17:27-1.1 et seq.

FEDERAL AID PROJECT ATTACHMENT 6

INVESTIGATING, REPORTING AND RESOLVING EMPLOYMENT DISCRIMINATION AND SEXUAL HARASSMENT COMPLAINTS ON NJDOT FEDERAL AID PROJECTS

The Contractor and subcontractors agrees to the following requirements in order to implement fully the nondiscrimination provisions of the Contract.

The Contractor agrees that in instances when it receives from any person working on the project site a verbal or written complaint of employment discrimination, prohibited under N.J.S.A. 10:5-1 et seq., 10:2-1 et seq., 42 U.S.C. 2000(d) et seq., 42 U.S.C. 2000 (e) et seq. and Executive Order 11246, it shall take the following actions:

- A. Within one (1) working day commence an investigation of the complaint which shall include but not be limited to interviewing the complainant, the respondent, and all possible witnesses to the alleged act or acts of discrimination or sexual harassment.
- B. Prepare and keep for its use and file a detailed written investigative report which includes the following information:
 - 1. Investigatory activities and findings.
 - 2. Dates and parties involved and activities involved in resolving the complaint.
 - 3. Resolution and corrective action taken if discrimination or sexual harassment is found to have taken place.
 - 4. A signed copy of resolution of complaint by complainant and Contractor.

In addition to keeping in its files the above-noted detailed written investigative report, the Contractor shall keep for possible future review by the Department all other records, including but not limited to, interview memos and statements.

- C. Upon the request of the Department, provides to the Department within ten (10) calendar days a copy of its detailed written investigative report and all other records on the complaint investigation and resolution.
- D. Take appropriate disciplinary action against any Contractor employee, official or agent who has committed acts of discrimination or sexual harassment against any contractor employee or person working on the project. If the person committing the discrimination is a subcontractor employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action by the subcontractor in order to establish compliance with the Contract.
- E. Take appropriate disciplinary action against any Contractor employee, official or agent who retaliates, coerces or intimidates any complaint and/or person who provides information or assistance to any investigation of complaints of discrimination or sexual harassment. If the person retaliating, coercing or intimidating a complainant or other person assisting an investigation is a subcontractor's employee, then the Contractor is required to attempt to effectuate corrective and/or disciplinary action by the subcontractor in order to establish compliance with the Contract.
- F. Ensure to the maximum extent possible that the privacy interests of all persons who give confidential information in aid of the Contractor's employment discrimination investigation are protected.

In conjunction with the above requirements, the Contractor shall develop and post a written sexual harassment policy for its work force.

Failure by the Contractor and subcontractors to comply with the above requirements may be cause for the Department to institute against the Contractor any and all enforcement proceedings and/or sanctions authorized by the Contract or by State and/or Federal law.

FEDERAL AID PROJECT ATTACHMENT 7

PAYROLL REQUIREMENTS FOR NJDOT FEDERAL AID PROJECTS

- A. Certified Payroll Reports.** Each Contractor and subcontractor shall furnish the RE with certified payroll reports for each week of contract work. Such reports shall be submitted within 7 days of the date of payment covered thereby and shall contain the following information:
1. Each employee's full name and an individually identifying number, (e.g. the last four digits of the employee's social security number) of each such employee.
 2. The ethnicity and gender of each employee.
 3. Each employee's correct classification (s) of work actually performed.
 4. Entries indicating each employee's basis hourly wage rate(s) and, where applicable, the overtime hourly wage rate(s). Any rates of contributions for fringe benefits paid to approved plans, funds or programs on behalf of the employee must be indicated. Any fringe benefits paid to the employee in cash must be indicated.
 5. Each employee's daily and weekly hours worked in each classification, including actual overtime hours worked (not adjusted).
 6. Each employee's gross wage.
 7. The itemized deductions made.
 8. The net wages paid.
- B. Statement of Wages.** Each Contractor or subcontractor shall furnish a statement each week to the RE with respect to the wages paid each of its employees engaged in contract work covered by the Copeland Act, as amended during the preceding weekly payroll period. The statement shall be executed by the Contractor or subcontractor or by an authorized officer or employee of the Contractor or subcontractors who supervises the payment of wages. Contractors and subcontractors must use the certification set forth on the Department's CR-347, or any form with identical wording. Each payroll submitted must be accompanied by a signed "Statement of Compliance".
- C. Maintaining Records.** Contractor and subcontractors shall maintain payroll records for a period of three (3) years after all work on the Contract is completed. Contractor and subcontractor shall maintain complete payroll records to include: name, social security numbers, last known address, telephone number and e-mail address for each employee. Government agencies are entitled to request or review all relevant payroll information, including social security numbers and addresses of employees. Contractors and subcontractors are required to provide such information upon request.
- D. Lack of Compliance.** Failure of the Contractor or subcontractor to comply with the payroll requirements may result in payment being delayed or withheld as specified in Section 105, default as specified in Section 108 or termination of the Contract as specified in Section 108.
- E. Diane B. Allen Equal Pay Act, N.J.S.A. 34:11-56.14b.** Pursuant to the DIANE B. ALLEN EQUAL PAY ACT, N.J.S.A. 34:11-56.14.b., the Contractor shall provide to the Commissioner of the New Jersey Department of Labor and Workforce Development, through certified payroll records required pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.), information regarding the gender, race, job title, occupational category, and rate of total compensation of every employee of the employer employed in the State in connection with the Contract. The Contractor shall provide the Commissioner, throughout the duration of the Contract, with an update to the information whenever payroll records are required to be submitted pursuant to P.L.1963, c.150 (C.34:11-56.25 et seq.). Completed forms should be emailed to: equalpayact@dol.nj.gov. If online submission is not possible, the form should be mailed to: Equal Pay Act, New Jersey Department of Labor and Workforce Development, P.O. Box 110, Trenton, NJ 08625-110.

Information regarding the Diane B. Allen Equal Pay Act and its requirements may be obtained from the New Jersey Department of Labor and Workforce Development (LWD) website at: <https://nj.gov/labor/equalpay/equalpay.html>

LWD forms may be obtained from the online web site at: https://nj.gov/labor/forms_pdfs/equalpayact/MW-562withoutfein.pdf

FEDERAL AID PROJECT ATTACHMENT 8

FHWA-1273

REQUIRED CONTRACT PROVISIONS

FEDERAL-AID CONSTRUCTION CONTRACTS

- I. General
- II. Nondiscrimination
- III. Non-segregated Facilities
- IV. Davis-Bacon and Related Act Provisions
- V. Contract Work Hours and Safety Standards Act Provisions
- VI. Subletting or Assigning the Contract
- VII. Safety: Accident Prevention
- VIII. False Statements Concerning Highway Projects
- IX. Implementation of Clean Air Act and Federal Water Pollution Control Act
- X. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
- XI. Certification Regarding Use of Contract Funds for Lobbying
- XII. Use of United States-Flag Vessels:

ATTACHMENTS

A. Employment and Materials Preference for Appalachian Development Highway System or Appalachian Local Access Road Contracts (included in Appalachian contracts only)

I. GENERAL

1. Form FHWA-1273 must be physically incorporated in each construction contract funded under title 23, United States Code, as required in 23 CFR 633.102(b) (excluding emergency contracts solely intended for debris removal). The contractor (or subcontractor) must insert this form in each subcontract and further require its inclusion in all lower tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services). 23 CFR 633.102(e).

The applicable requirements of Form FHWA-1273 are incorporated by reference for work done under any purchase order, rental agreement or agreement for other services. The prime contractor shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider. 23 CFR 633.102(e).

Form FHWA-1273 must be included in all Federal-aid design-build contracts, in all subcontracts and in lower tier subcontracts (excluding subcontracts for design services, purchase orders, rental agreements and other agreements for supplies or services) in accordance with 23 CFR 633.102. The design-builder shall be responsible for compliance by any subcontractor, lower-tier subcontractor or service provider.

Contracting agencies may reference Form FHWA-1273 in solicitation-for-bids or request-for-proposals documents, however, the Form FHWA-1273 must be physically incorporated (not referenced) in all contracts, subcontracts and lower-tier subcontracts (excluding purchase orders, rental agreements and other agreements for supplies or services related to a construction contract). 23 CFR 633.102(b).

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work

performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract. 23 CFR 633.102(d).

3. A breach of any of the stipulations contained in these Required Contract Provisions may be sufficient grounds for withholding of progress payments, withholding of final payment, termination of the contract, suspension / debarment or any other action determined to be appropriate by the contracting agency and FHWA.

4. Selection of Labor: During the performance of this contract, the contractor shall not use convict labor for any purpose within the limits of a construction project on a Federal-aid highway unless it is labor performed by convicts who are on parole, supervised release, or probation. 23 U.S.C. 114(b). The term Federal-aid highway does not include roadways functionally classified as local roads or rural minor collectors. 23 U.S.C. 101(a).

II. NONDISCRIMINATION (23 CFR 230.107(a); 23 CFR Part 230, Subpart A, Appendix A; EO 11246)

The provisions of this section related to 23 CFR Part 230, Subpart A, Appendix A are applicable to all Federal-aid construction contracts and to all related construction subcontracts of \$10,000 or more. The provisions of 23 CFR Part 230 are not applicable to material supply, engineering, or architectural service contracts.

In addition, the contractor and all subcontractors must comply with the following policies: Executive Order 11246, 41 CFR Part 60, 29 CFR Parts 1625-1627, 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The contractor and all subcontractors must comply with: the requirements of the Equal Opportunity Clause in 41 CFR 60-1.4(b) and, for all construction contracts exceeding \$10,000, the Standard Federal Equal Employment Opportunity Construction Contract Specifications in 41 CFR 60-4.3.

Note: The U.S. Department of Labor has exclusive authority to determine compliance with Executive Order 11246 and the policies of the Secretary of Labor including 41 CFR Part 60, and 29 CFR Parts 1625-1627. The contracting agency and the FHWA have the authority and the responsibility to ensure compliance with 23 U.S.C. 140, Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. 794), and Title VI of the Civil Rights Act of 1964, as amended (42 U.S.C. 2000d et seq.), and related regulations including 49 CFR Parts 21, 26, and 27; and 23 CFR Parts 200, 230, and 633.

The following provision is adopted from 23 CFR Part 230, Subpart A, Appendix A, with appropriate revisions to conform to the U.S. Department of Labor (US DOL) and FHWA requirements.

1. Equal Employment Opportunity: Equal Employment Opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (see 28 CFR Part 35, 29 CFR Part 1630, 29 CFR Parts 1625-1627, 41 CFR Part 60 and 49 CFR Part 27) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140, shall constitute the EEO and specific affirmative action standards for the contractor's project activities under this contract. The provisions of the Americans with Disabilities Act of 1990 (42 U.S.C. 12101 et seq.) set forth under 28 CFR Part 35 and 29 CFR Part 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO:

a. The contractor will work with the contracting agency and the Federal Government to ensure that it has made every good faith effort to provide equal opportunity with respect to all of its terms and conditions of employment and in their review of activities under the contract. 23 CFR 230.409 (g)(4) & (5).

b. The contractor will accept as its operating policy the following statement:

"It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, sexual orientation, gender identity, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre-apprenticeship, and/or on-the-job training."

2. EEO Officer: The contractor will designate and make known to the contracting officers an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active EEO program and who must be assigned adequate authority and responsibility to do so.

3. Dissemination of Policy: All members of the contractor's staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action or are substantially involved in such action, will be made fully cognizant of and will implement the contractor's EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

a. Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor's EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO Officer or other knowledgeable company official.

b. All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor's EEO obligations within thirty days following their reporting for duty with the contractor.

c. All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor's procedures for locating and hiring minorities and women.

d. Notices and posters setting forth the contractor's EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

e. The contractor's EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

4. Recruitment: When advertising for employees, the contractor will include in all advertisements for employees the notation: "An Equal Opportunity Employer." All such advertisements will be placed in publications having a large circulation among minorities and women in the area from which the project work force would normally be derived.

a. The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minorities and women. To meet this requirement, the contractor will identify sources of potential minority group employees and establish with such identified sources procedures whereby minority and women applicants may be referred to the contractor for employment consideration.

b. In the event the contractor has a valid bargaining agreement providing for exclusive hiring hall referrals, the contractor is expected to observe the provisions of that agreement to the extent that the system meets the contractor's compliance with EEO contract provisions. Where implementation of such an agreement has the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Federal nondiscrimination provisions.

c. The contractor will encourage its present employees to refer minorities and women as applicants for employment. Information and procedures with regard to referring such applicants will be discussed with employees.

5. Personnel Actions: Wages, working conditions, and employee benefits shall be established and administered, and personnel actions of every type, including hiring, upgrading, promotion, transfer, demotion, layoff, and termination, shall be taken without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age or disability. The following procedures shall be followed:

a. The contractor will conduct periodic inspections of project sites to ensure that working conditions and employee facilities do not indicate discriminatory treatment of project site personnel.

b. The contractor will periodically evaluate the spread of wages paid within each classification to determine any evidence of discriminatory wage practices.

c. The contractor will periodically review selected personnel actions in depth to determine whether there is evidence of discrimination. Where evidence is found, the contractor will promptly take corrective action. If the review indicates that the discrimination may extend beyond the actions reviewed, such corrective action shall include all affected persons.

d. The contractor will promptly investigate all complaints of alleged discrimination made to the contractor in connection with its obligations under this contract, will attempt to resolve such complaints, and will take appropriate corrective action

within a reasonable time. If the investigation indicates that the discrimination may affect persons other than the complainant, such corrective action shall include such other persons. Upon completion of each investigation, the contractor will inform every complainant of all of their avenues of appeal.

6. Training and Promotion:

a. The contractor will assist in locating, qualifying, and increasing the skills of minorities and women who are applicants for employment or current employees. Such efforts should be aimed at developing full journey level status employees in the type of trade or job classification involved.

b. Consistent with the contractor's work force requirements and as permissible under Federal and State regulations, the contractor shall make full use of training programs (i.e., apprenticeship and on-the-job training programs for the geographical area of contract performance). In the event a special provision for training is provided under this contract, this subparagraph will be superseded as indicated in the special provision. The contracting agency may reserve training positions for persons who receive welfare assistance in accordance with 23 U.S.C. 140(a).

c. The contractor will advise employees and applicants for employment of available training programs and entrance requirements for each.

d. The contractor will periodically review the training and promotion potential of employees who are minorities and women and will encourage eligible employees to apply for such training and promotion.

7. Unions: If the contractor relies in whole or in part upon unions as a source of employees, the contractor will use good faith efforts to obtain the cooperation of such unions to increase opportunities for minorities and women. 23 CFR 230.409. Actions by the contractor, either directly or through a contractor's association acting as agent, will include the procedures set forth below:

a. The contractor will use good faith efforts to develop, in cooperation with the unions, joint training programs aimed toward qualifying more minorities and women for membership in the unions and increasing the skills of minorities and women so that they may qualify for higher paying employment.

b. The contractor will use good faith efforts to incorporate an EEO clause into each union agreement to the end that such union will be contractually bound to refer applicants without regard to their race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability.

c. The contractor is to obtain information as to the referral practices and policies of the labor union except that to the extent such information is within the exclusive possession of the labor union and such labor union refuses to furnish such information to the contractor, the contractor shall so certify to the contracting agency and shall set forth what efforts have been made to obtain such information.

d. In the event the union is unable to provide the contractor with a reasonable flow of referrals within the time limit set forth in the collective bargaining agreement, the contractor will, through independent recruitment efforts, fill the employment vacancies without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability; making full efforts to obtain qualified and/or qualifiable minorities and women. The failure of a union to provide

sufficient referrals (even though it is obligated to provide exclusive referrals under the terms of a collective bargaining agreement) does not relieve the contractor from the requirements of this paragraph. In the event the union referral practice prevents the contractor from meeting the obligations pursuant to Executive Order 11246, as amended, and these special provisions, such contractor shall immediately notify the contracting agency.

8. Reasonable Accommodation for Applicants / Employees with Disabilities: The contractor must be familiar with the requirements for and comply with the Americans with Disabilities Act and all rules and regulations established thereunder. Employers must provide reasonable accommodation in all employment activities unless to do so would cause an undue hardship.

9. Selection of Subcontractors, Procurement of Materials and Leasing of Equipment: The contractor shall not discriminate on the grounds of race, color, religion, sex, sexual orientation, gender identity, national origin, age, or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment. The contractor shall take all necessary and reasonable steps to ensure nondiscrimination in the administration of this contract.

a. The contractor shall notify all potential subcontractors, suppliers, and lessors of their EEO obligations under this contract.

b. The contractor will use good faith efforts to ensure subcontractor compliance with their EEO obligations.

10. Assurances Required:

a. The requirements of 49 CFR Part 26 and the State DOT's FHWA-approved Disadvantaged Business Enterprise (DBE) program are incorporated by reference.

b. The contractor, subrecipient or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or such other remedy as the recipient deems appropriate, which may include, but is not limited to:

- (1) Withholding monthly progress payments;
- (2) Assessing sanctions;
- (3) Liquidated damages; and/or
- (4) Disqualifying the contractor from future bidding as non-responsible.

c. The Title VI and nondiscrimination provisions of U.S. DOT Order 1050.2A at Appendixes A and E are incorporated by reference. 49 CFR Part 21.

11. Records and Reports: The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following the date of the final payment to the contractor for all contract work and shall be available at reasonable times and places for inspection by authorized representatives of the contracting agency and the FHWA.

a. The records kept by the contractor shall document the following:

(1) The number and work hours of minority and non-minority group members and women employed in each work classification on the project;

(2) The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women; and

(3) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minorities and women.

b. The contractors and subcontractors will submit an annual report to the contracting agency each July for the duration of the project indicating the number of minority, women, and non-minority group employees currently engaged in each work classification required by the contract work. This information is to be reported on [Form FHWA-1391](#). The staffing data should represent the project work force on board in all or any part of the last payroll period preceding the end of July. If on-the-job training is being required by special provision, the contractor will be required to collect and report training data. The employment data should reflect the work force on board during all or any part of the last payroll period preceding the end of July.

III. NONSEGREGATED FACILITIES

This provision is applicable to all Federal-aid construction contracts and to all related construction subcontracts of more than \$10,000. 41 CFR 60-1.5.

As prescribed by 41 CFR 60-1.8, the contractor must ensure that facilities provided for employees are provided in such a manner that segregation on the basis of race, color, religion, sex, sexual orientation, gender identity, or national origin cannot result. The contractor may neither require such segregated use by written or oral policies nor tolerate such use by employee custom. The contractor's obligation extends further to ensure that its employees are not assigned to perform their services at any location under the contractor's control where the facilities are segregated. The term "facilities" includes waiting rooms, work areas, restaurants and other eating areas, time clocks, restrooms, washrooms, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing provided for employees. The contractor shall provide separate or single-user restrooms and necessary dressing or sleeping areas to assure privacy between sexes.

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

This section is applicable to all Federal-aid construction projects exceeding \$2,000 and to all related subcontracts and lower-tier subcontracts (regardless of subcontract size), in accordance with 29 CFR 5.5. The requirements apply to all projects located within the right-of-way of a roadway that is functionally classified as Federal-aid highway. 23 U.S.C. 113. This excludes roadways functionally classified as local roads or rural minor collectors, which are exempt. 23 U.S.C. 101. Where applicable law requires that projects be treated as a project on a Federal-aid highway, the provisions of this subpart will apply regardless of the location of the project. Examples include: Surface Transportation Block Grant Program projects funded under 23 U.S.C. 133 [excluding recreational trails projects], the Nationally Significant Freight and Highway

Projects funded under 23 U.S.C. 117, and National Highway Freight Program projects funded under 23 U.S.C. 167.

The following provisions are from the U.S. Department of Labor regulations in 29 CFR 5.5 "Contract provisions and related matters" with minor revisions to conform to the FHWA- 1273 format and FHWA program requirements.

1. Minimum wages (29 CFR 5.5)

a. *Wage rates and fringe benefits.* All laborers and mechanics employed or working upon the site of the work (or otherwise working in construction or development of the project under a development statute), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act ([29 CFR part 3](#))), the full amount of basic hourly wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. As provided in paragraphs (d) and (e) of 29 CFR 5.5, the appropriate wage determinations are effective by operation of law even if they have not been attached to the contract. Contributions made or costs reasonably anticipated for bona fide fringe benefits under the Davis-Bacon Act ([40 U.S.C. 3141\(2\)\(B\)](#)) on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.e. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics must be paid the appropriate wage rate and fringe benefits on the wage determination for the classification(s) of work actually performed, without regard to skill, except as provided in paragraph 4. of this section. Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: *Provided*, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph 1.c. of this section) and the Davis-Bacon poster (WH-1321) must be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. *Frequently recurring classifications.* (1) In addition to wage and fringe benefit rates that have been determined to be prevailing under the procedures set forth in [29 CFR part 1](#), a wage determination may contain, pursuant to § 1.3(f), wage and fringe benefit rates for classifications of laborers and mechanics for which conformance requests are regularly submitted pursuant to paragraph 1.c. of this section, provided that:

(i) The work performed by the classification is not performed by a classification in the wage determination for which a prevailing wage rate has been determined;

(ii) The classification is used in the area by the construction industry; and

(iii) The wage rate for the classification bears a reasonable relationship to the prevailing wage rates contained in the wage determination.

(2) The Administrator will establish wage rates for such classifications in accordance with paragraph 1.c.(1)(iii) of this section. Work performed in such a classification must be paid at no less than the wage and fringe benefit rate listed on the wage determination for such classification.

c. Conformance. (1) The contracting officer must require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract be classified in conformance with the wage determination. Conformance of an additional classification and wage rate and fringe benefits is appropriate only when the following criteria have been met:

(i) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(ii) The classification is used in the area by the construction industry; and

(iii) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(2) The conformance process may not be used to split, subdivide, or otherwise avoid application of classifications listed in the wage determination.

(3) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken will be sent by the contracting officer by email to DBAconformance@dol.gov. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(4) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer will, by email to DBAconformance@dol.gov, refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(5) The contracting officer must promptly notify the contractor of the action taken by the Wage and Hour Division

under paragraphs 1.c.(3) and (4) of this section. The contractor must furnish a written copy of such determination to each affected worker or it must be posted as a part of the wage determination. The wage rate (including fringe benefits where appropriate) determined pursuant to paragraph 1.c.(3) or (4) of this section must be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

d. Fringe benefits not expressed as an hourly rate.

Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor may either pay the benefit as stated in the wage determination or may pay another bona fide fringe benefit or an hourly cash equivalent thereof.

e. Unfunded plans. If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, *Provided*, That the Secretary of Labor has found, upon the written request of the contractor, in accordance with the criteria set forth in § 5.28, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

f. Interest. In the event of a failure to pay all or part of the wages required by the contract, the contractor will be required to pay interest on any underpayment of wages.

2. Withholding (29 CFR 5.5)

a. Withholding requirements. The contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for the full amount of wages and monetary relief, including interest, required by the clauses set forth in this section for violations of this contract, or to satisfy any such liabilities required by any other Federal contract, or federally assisted contract subject to Davis-Bacon labor standards, that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to Davis-Bacon labor standards requirements and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld. In the event of a contractor's failure to pay any laborer or mechanic, including any apprentice or helper working on the site of the work all or part of the wages required by the contract, or upon the contractor's failure to submit the required records as discussed in paragraph 3.d. of this section, the contracting agency may on its own initiative and after written notice to the contractor, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

b. Priority to withheld funds. The Department has priority to funds withheld or to be withheld in accordance with paragraph

2.a. of this section or Section V, paragraph 3.a., or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its procurement costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901–3907](#).

3. Records and certified payrolls (29 CFR 5.5)

a. Basic record requirements (1) Length of record retention. All regular payrolls and other basic records must be maintained by the contractor and any subcontractor during the course of the work and preserved for all laborers and mechanics working at the site of the work (or otherwise working in construction or development of the project under a development statute) for a period of at least 3 years after all the work on the prime contract is completed.

(2) Information required. Such records must contain the name; Social Security number; last known address, telephone number, and email address of each such worker; each worker's correct classification(s) of work actually performed; hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act); daily and weekly number of hours actually worked in total and on each covered contract; deductions made; and actual wages paid.

(3) Additional records relating to fringe benefits. Whenever the Secretary of Labor has found under paragraph 1.e. of this section that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in [40 U.S.C. 3141\(2\)\(B\)](#) of the Davis-Bacon Act, the contractor must maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

(4) Additional records relating to apprenticeship. Contractors with apprentices working under approved programs must maintain written evidence of the registration of apprenticeship programs, the registration of the apprentices, and the ratios and wage rates prescribed in the applicable programs.

b. Certified payroll requirements (1) Frequency and method of submission. The contractor or subcontractor must submit weekly, for each week in which any DBA- or Related Acts-covered work is performed, certified payrolls to the contracting

agency. The prime contractor is responsible for the submission of all certified payrolls by all subcontractors. A contracting agency or prime contractor may permit or require contractors to submit certified payrolls through an electronic system, as long as the electronic system requires a legally valid electronic signature; the system allows the contractor, the contracting agency, and the Department of Labor to access the certified payrolls upon request for at least 3 years after the work on the prime contract has been completed; and the contracting agency or prime contractor permits other methods of submission in situations where the contractor is unable or limited in its ability to use or access the electronic system.

(2) Information required. The certified payrolls submitted must set out accurately and completely all of the information required to be maintained under paragraph 3.a.(2) of this section, except that full Social Security numbers and last known addresses, telephone numbers, and email addresses must not be included on weekly transmittals. Instead, the certified payrolls need only include an individually identifying number for each worker (e.g., the last four digits of the worker's Social Security number). The required weekly certified payroll information may be submitted using Optional Form WH-347 or in any other format desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division website at <https://www.dol.gov/sites/dolgov/files/WHDL/legacy/files/wh347.pdf> or its successor website. It is not a violation of this section for a prime contractor to require a subcontractor to provide full Social Security numbers and last known addresses, telephone numbers, and email addresses to the prime contractor for its own records, without weekly submission by the subcontractor to the contracting agency.

(3) Statement of Compliance. Each certified payroll submitted must be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor, or the contractor's or subcontractor's agent who pays or supervises the payment of the persons working on the contract, and must certify the following:

(i) That the certified payroll for the payroll period contains the information required to be provided under paragraph 3.b. of this section, the appropriate information and basic records are being maintained under paragraph 3.a. of this section, and such information and records are correct and complete;

(ii) That each laborer or mechanic (including each helper and apprentice) working on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in [29 CFR part 3](#); and

(iii) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification(s) of work actually performed, as specified in the applicable wage determination incorporated into the contract.

(4) Use of Optional Form WH-347. The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 will satisfy the requirement for submission of the "Statement of Compliance" required by paragraph 3.b.(3) of this section.

(5) *Signature.* The signature by the contractor, subcontractor, or the contractor's or subcontractor's agent must be an original handwritten signature or a legally valid electronic signature.

(6) *Falsification.* The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under [18 U.S.C. 1001](#) and [31 U.S.C. 3729](#).

(7) *Length of certified payroll retention.* The contractor or subcontractor must preserve all certified payrolls during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

c. *Contracts, subcontracts, and related documents.* The contractor or subcontractor must maintain this contract or subcontract and related documents including, without limitation, bids, proposals, amendments, modifications, and extensions. The contractor or subcontractor must preserve these contracts, subcontracts, and related documents during the course of the work and for a period of 3 years after all the work on the prime contract is completed.

d. *Required disclosures and access (1) Required record disclosures and access to workers.* The contractor or subcontractor must make the records required under paragraphs 3.a. through 3.c. of this section, and any other documents that the contracting agency, the State DOT, the FHWA, or the Department of Labor deems necessary to determine compliance with the labor standards provisions of any of the applicable statutes referenced by § 5.1, available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and must permit such representatives to interview workers during working hours on the job.

(2) *Sanctions for non-compliance with records and worker access requirements.* If the contractor or subcontractor fails to submit the required records or to make them available, or refuses to permit worker interviews during working hours on the job, the Federal agency may, after written notice to the contractor, sponsor, applicant, owner, or other entity, as the case may be, that maintains such records or that employs such workers, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available, or to permit worker interviews during working hours on the job, may be grounds for debarment action pursuant to § 5.12. In addition, any contractor or other person that fails to submit the required records or make those records available to WHD within the time WHD requests that the records be produced will be precluded from introducing as evidence in an administrative proceeding under [29 CFR part 6](#) any of the required records that were not provided or made available to WHD. WHD will take into consideration a reasonable request from the contractor or person for an extension of the time for submission of records. WHD will determine the reasonableness of the request and may consider, among other things, the location of the records and the volume of production.

(3) *Required information disclosures.* Contractors and subcontractors must maintain the full Social Security number and last known address, telephone number, and email address

of each covered worker, and must provide them upon request to the contracting agency, the State DOT, the FHWA, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or other compliance action.

4. Apprentices and equal employment opportunity (29 CFR 5.5)

a. *Apprentices (1) Rate of pay.* Apprentices will be permitted to work at less than the predetermined rate for the work they perform when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship (OA), or with a State Apprenticeship Agency recognized by the OA. A person who is not individually registered in the program, but who has been certified by the OA or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice, will be permitted to work at less than the predetermined rate for the work they perform in the first 90 days of probationary employment as an apprentice in such a program. In the event the OA or a State Apprenticeship Agency recognized by the OA withdraws approval of an apprenticeship program, the contractor will no longer be permitted to use apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(2) *Fringe benefits.* Apprentices must be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringe benefits must be paid in accordance with that determination.

(3) *Apprenticeship ratio.* The allowable ratio of apprentices to journeymen on the job site in any craft classification must not be greater than the ratio permitted to the contractor as to the entire work force under the registered program or the ratio applicable to the locality of the project pursuant to paragraph 4.a.(4) of this section. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated in paragraph 4.a.(1) of this section, must be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under this section must be paid not less than the applicable wage rate on the wage determination for the work actually performed.

(4) *Reciprocity of ratios and wage rates.* Where a contractor is performing construction on a project in a locality other than the locality in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyworker's hourly rate) applicable within the locality in which the construction is being performed must be observed. If there is no applicable ratio or wage rate for the locality of the project, the ratio and wage rate specified in the contractor's registered program must be observed.

b. *Equal employment opportunity.* The use of apprentices and journeymen under this part must be in conformity with

the equal employment opportunity requirements of Executive Order 11246, as amended, and [29 CFR part 30](#).

c. Apprentices and Trainees (programs of the U.S. DOT).

Apprentices and trainees working under apprenticeship and skill training programs which have been certified by the Secretary of Transportation as promoting EEO in connection with Federal-aid highway construction programs are not subject to the requirements of paragraph 4 of this Section IV. 23 CFR 230.111(e)(2). The straight time hourly wage rates for apprentices and trainees under such programs will be established by the particular programs. The ratio of apprentices and trainees to journeyworkers shall not be greater than permitted by the terms of the particular program.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract as provided in 29 CFR 5.5.

6. Subcontracts. The contractor or subcontractor must insert FHWA-1273 in any subcontracts, along with the applicable wage determination(s) and such other clauses or contract modifications as the contracting agency may by appropriate instructions require, and a clause requiring the subcontractors to include these clauses and wage determination(s) in any lower tier subcontracts. The prime contractor is responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this section. In the event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and may be subject to debarment, as appropriate. 29 CFR 5.5.

7. Contract termination: debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

8. Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract as provided in 29 CFR 5.5.

9. Disputes concerning labor standards. As provided in 29 CFR 5.5, disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

10. Certification of eligibility. a. By entering into this contract, the contractor certifies that neither it nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

b. No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of [40 U.S.C. 3144\(b\)](#) or § 5.12(a).

c. The penalty for making false statements is prescribed in the U.S. Code, Title 18 Crimes and Criminal Procedure, [18 U.S.C. 1001](#).

11. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#);

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#); or

d. Informing any other person about their rights under the DBA, Related Acts, this part, or [29 CFR part 1](#) or [3](#).

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Pursuant to 29 CFR 5.5(b), the following clauses apply to any Federal-aid construction contract in an amount in excess of \$100,000 and subject to the overtime provisions of the Contract Work Hours and Safety Standards Act. These clauses shall be inserted in addition to the clauses required by 29 CFR 5.5(a) or 29 CFR 4.6. As used in this paragraph, the terms laborers and mechanics include watchpersons and guards.

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek. 29 CFR 5.5.

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph 1. of this section the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages and interest from the date of the underpayment. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or

mechanic, including watchpersons and guards, employed in violation of the clause set forth in paragraph 1. of this section, in the sum currently provided in 29 CFR 5.5(b)(2)* for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph 1. of this section.

* \$31 as of January 15, 2023 (See 88 FR 88 FR 2210) as may be adjusted annually by the Department of Labor, pursuant to the Federal Civil Penalties Inflation Adjustment Act of 1990.

3. Withholding for unpaid wages and liquidated damages

a. *Withholding process.* The FHWA or the contracting agency may, upon its own action, or must, upon written request of an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor so much of the accrued payments or advances as may be considered necessary to satisfy the liabilities of the prime contractor or any subcontractor for any unpaid wages; monetary relief, including interest; and liquidated damages required by the clauses set forth in this section on this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract subject to the Contract Work Hours and Safety Standards Act that is held by the same prime contractor (as defined in § 5.2). The necessary funds may be withheld from the contractor under this contract, any other Federal contract with the same prime contractor, or any other federally assisted contract that is subject to the Contract Work Hours and Safety Standards Act and is held by the same prime contractor, regardless of whether the other contract was awarded or assisted by the same agency, and such funds may be used to satisfy the contractor liability for which the funds were withheld.

b. *Priority to withheld funds.* The Department has priority to funds withheld or to be withheld in accordance with Section IV paragraph 2.a. or paragraph 3.a. of this section, or both, over claims to those funds by:

- (1) A contractor's surety(ies), including without limitation performance bond sureties and payment bond sureties;
- (2) A contracting agency for its repurchase costs;
- (3) A trustee(s) (either a court-appointed trustee or a U.S. trustee, or both) in bankruptcy of a contractor, or a contractor's bankruptcy estate;
- (4) A contractor's assignee(s);
- (5) A contractor's successor(s); or
- (6) A claim asserted under the Prompt Payment Act, [31 U.S.C. 3901](#)–3907.

4. Subcontracts. The contractor or subcontractor must insert in any subcontracts the clauses set forth in paragraphs 1. through 5. of this section and a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor is responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs 1. through 5. In the

event of any violations of these clauses, the prime contractor and any subcontractor(s) responsible will be liable for any unpaid wages and monetary relief, including interest from the date of the underpayment or loss, due to any workers of lower-tier subcontractors, and associated liquidated damages and may be subject to debarment, as appropriate.

5. Anti-retaliation. It is unlawful for any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, or to cause any person to discharge, demote, intimidate, threaten, restrain, coerce, blacklist, harass, or in any other manner discriminate against, any worker or job applicant for:

a. Notifying any contractor of any conduct which the worker reasonably believes constitutes a violation of the Contract Work Hours and Safety Standards Act (CWHSSA) or its implementing regulations in this part;

b. Filing any complaint, initiating or causing to be initiated any proceeding, or otherwise asserting or seeking to assert on behalf of themselves or others any right or protection under CWHSSA or this part;

c. Cooperating in any investigation or other compliance action, or testifying in any proceeding under CWHSSA or this part; or

d. Informing any other person about their rights under CWHSSA or this part.

VI. SUBLETTING OR ASSIGNING THE CONTRACT

This provision is applicable to all Federal-aid construction contracts on the National Highway System pursuant to 23 CFR 635.116.

1. The contractor shall perform with its own organization contract work amounting to not less than 30 percent (or a greater percentage if specified elsewhere in the contract) of the total original contract price, excluding any specialty items designated by the contracting agency. Specialty items may be performed by subcontract and the amount of any such specialty items performed may be deducted from the total original contract price before computing the amount of work required to be performed by the contractor's own organization (23 CFR 635.116).

a. The term "perform work with its own organization" in paragraph 1 of Section VI refers to workers employed or leased by the prime contractor, and equipment owned or rented by the prime contractor, with or without operators. Such term does not include employees or equipment of a subcontractor or lower tier subcontractor, agents of the prime contractor, or any other assignees. The term may include payments for the costs of hiring leased employees from an employee leasing firm meeting all relevant Federal and State regulatory requirements. Leased employees may only be included in this term if the prime contractor meets all of the following conditions: (based on longstanding interpretation)

- (1) the prime contractor maintains control over the supervision of the day-to-day activities of the leased employees;
- (2) the prime contractor remains responsible for the quality of the work of the leased employees;

- (3) the prime contractor retains all power to accept or exclude individual employees from work on the project; and
- (4) the prime contractor remains ultimately responsible for the payment of predetermined minimum wages, the submission of payrolls, statements of compliance and all other Federal regulatory requirements.

b. "Specialty Items" shall be construed to be limited to work that requires highly specialized knowledge, abilities, or equipment not ordinarily available in the type of contracting organizations qualified and expected to bid or propose on the contract as a whole and in general are to be limited to minor components of the overall contract. 23 CFR 635.102.

2. Pursuant to 23 CFR 635.116(a), the contract amount upon which the requirements set forth in paragraph (1) of Section VI is computed includes the cost of material and manufactured products which are to be purchased or produced by the contractor under the contract provisions.

3. Pursuant to 23 CFR 635.116(c), the contractor shall furnish (a) a competent superintendent or supervisor who is employed by the firm, has full authority to direct performance of the work in accordance with the contract requirements, and is in charge of all construction operations (regardless of who performs the work) and (b) such other of its own organizational resources (supervision, management, and engineering services) as the contracting officer determines is necessary to assure the performance of the contract.

4. No portion of the contract shall be sublet, assigned or otherwise disposed of except with the written consent of the contracting officer, or authorized representative, and such consent when given shall not be construed to relieve the contractor of any responsibility for the fulfillment of the contract. Written consent will be given only after the contracting agency has assured that each subcontract is evidenced in writing and that it contains all pertinent provisions and requirements of the prime contract. (based on long-standing interpretation of 23 CFR 635.116).

5. The 30-percent self-performance requirement of paragraph (1) is not applicable to design-build contracts; however, contracting agencies may establish their own self-performance requirements. 23 CFR 635.116(d).

VII. SAFETY: ACCIDENT PREVENTION

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

1. In the performance of this contract the contractor shall comply with all applicable Federal, State, and local laws governing safety, health, and sanitation (23 CFR Part 635). The contractor shall provide all safeguards, safety devices and protective equipment and take any other needed actions as it determines, or as the contracting officer may determine, to be reasonably necessary to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract. 23 CFR 635.108.

2. It is a condition of this contract, and shall be made a condition of each subcontract, which the contractor enters into pursuant to this contract, that the contractor and any subcontractor shall not permit any employee, in performance of the contract, to work in surroundings or under conditions which are unsanitary, hazardous or dangerous to his/her health or safety, as determined under construction safety and

health standards (29 CFR Part 1926) promulgated by the Secretary of Labor, in accordance with Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704). 29 CFR 1926.10.

3. Pursuant to 29 CFR 1926.3, it is a condition of this contract that the Secretary of Labor or authorized representative thereof, shall have right of entry to any site of contract performance to inspect or investigate the matter of compliance with the construction safety and health standards and to carry out the duties of the Secretary under Section 107 of the Contract Work Hours and Safety Standards Act (40 U.S.C. 3704).

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts.

In order to assure high quality and durable construction in conformity with approved plans and specifications and a high degree of reliability on statements and representations made by engineers, contractors, suppliers, and workers on Federal-aid highway projects, it is essential that all persons concerned with the project perform their functions as carefully, thoroughly, and honestly as possible. Willful falsification, distortion, or misrepresentation with respect to any facts related to the project is a violation of Federal law. To prevent any misunderstanding regarding the seriousness of these and similar acts, Form FHWA-1022 shall be posted on each Federal-aid highway project (23 CFR Part 635) in one or more places where it is readily available to all persons concerned with the project:

18 U.S.C. 1020 reads as follows:

"Whoever, being an officer, agent, or employee of the United States, or of any State or Territory, or whoever, whether a person, association, firm, or corporation, knowingly makes any false statement, false representation, or false report as to the character, quality, quantity, or cost of the material used or to be used, or the quantity or quality of the work performed or to be performed, or the cost thereof in connection with the submission of plans, maps, specifications, contracts, or costs of construction on any highway or related project submitted for approval to the Secretary of Transportation; or

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed, or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

Whoever knowingly makes any false statement or false representation as to material fact in any statement, certificate, or report submitted pursuant to provisions of the Federal-aid Roads Act approved July 11, 1916, (39 Stat. 355), as amended and supplemented;

Shall be fined under this title or imprisoned not more than 5 years or both."

**IX. IMPLEMENTATION OF CLEAN AIR ACT AND
FEDERAL WATER POLLUTION CONTROL ACT (42
U.S.C. 7606; 2
CFR 200.88; EO 11738)**

This provision is applicable to all Federal-aid construction contracts in excess of \$150,000 and to all related subcontracts. 48 CFR 2.101; 2 CFR 200.327.

By submission of this bid/proposal or the execution of this contract or subcontract, as appropriate, the bidder, proposer, Federal-aid construction contractor, subcontractor, supplier, or vendor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act (42 U.S.C. 7401-7671q) and the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251-1387). Violations must be reported to the Federal Highway Administration and the Regional Office of the Environmental Protection Agency. 2 CFR Part 200, Appendix II.

The contractor agrees to include or cause to be included the requirements of this Section in every subcontract, and further agrees to take such action as the contracting agency may direct as a means of enforcing such requirements. 2 CFR 200.327.

**X. CERTIFICATION REGARDING DEBARMENT,
SUSPENSION, INELIGIBILITY AND VOLUNTARY
EXCLUSION**

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, consultant contracts or any other covered transaction requiring FHWA approval or that is estimated to cost \$25,000 or more – as defined in 2 CFR Parts 180 and 1200. 2 CFR 180.220 and 1200.220.

1. Instructions for Certification – First Tier Participants:

a. By signing and submitting this proposal, the prospective first tier participant is providing the certification set out below.

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction. 2 CFR 180.320.

c. The certification in this clause is a material representation of fact upon which reliance was placed when the contracting agency determined to enter into this transaction. If it is later determined that the prospective participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the contracting agency may terminate this transaction for cause of default. 2 CFR 180.325.

d. The prospective first tier participant shall provide immediate written notice to the contracting agency to whom this proposal is submitted if any time the prospective first tier participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances. 2 CFR 180.345 and 180.350.

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900-180.1020, and 1200. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contract). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

f. The prospective first tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction. 2 CFR 180.330.

g. The prospective first tier participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transactions," provided by the department or contracting agency, entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 180.300.

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. 2 CFR 180.300; 180.320, and 180.325. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. 2 CFR 180.335. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov/>). 2 CFR 180.300, 180.320, and 180.325.

i. Nothing contained in the foregoing shall be construed to require the establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of the prospective participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

j. Except for transactions authorized under paragraph (f) of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default. 2 CFR 180.325.

2. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion – First Tier Participants:

- a. The prospective first tier participant certifies to the best of its knowledge and belief, that it and its principals:

(1) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.335;.

(2) Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property, 2 CFR 180.800;

(3) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (a)(2) of this certification, 2 CFR 180.700 and 180.800; and

(4) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default. 2 CFR 180.335(d).

(5) Are not a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(6) Are not a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability (USDOT Order 4200.6 implementing appropriations act requirements).

- b. Where the prospective participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal. 2 CFR 180.335 and 180.340.

* * * * *

3. Instructions for Certification - Lower Tier Participants:

(Applicable to all subcontracts, purchase orders, and other lower tier transactions requiring prior FHWA approval or estimated to cost \$25,000 or more - 2 CFR Parts 180 and 1200). 2 CFR 180.220 and 1200.220.

- a. By signing and submitting this proposal, the prospective lower tier participant is providing the certification set out below.

b. The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which

this transaction originated may pursue available remedies, including suspension and/or debarment.

- c. The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances. 2 CFR 180.365.

d. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180, Subpart I, 180.900 – 180.1020, and 1200. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. "First Tier Covered Transactions" refers to any covered transaction between a recipient or subrecipient of Federal funds and a participant (such as the prime or general contractor). "Lower Tier Covered Transactions" refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). "First Tier Participant" refers to the participant who has entered into a covered transaction with a recipient or subrecipient of Federal funds (such as the prime or general contractor). "Lower Tier Participant" refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

- e. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated. 2 CFR 1200.220 and 1200.332.

f. The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions exceeding the \$25,000 threshold. 2 CFR 180.220 and 1200.220.

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each participant may, but is not required to, check the System for Award Management website (<https://www.sam.gov>), which is compiled by the General Services Administration. 2 CFR 180.300, 180.320, 180.330, and 180.335.

h. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

- i. Except for transactions authorized under paragraph e of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily

excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and/or debarment. 2 CFR 180.325.

* * * * *

4. Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion--Lower Tier Participants:

a. The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals:

(1) is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participating in covered transactions by any Federal department or agency, 2 CFR 180.355;

(2) is a corporation that has been convicted of a felony violation under any Federal law within the two-year period preceding this proposal (USDOT Order 4200.6 implementing appropriations act requirements); and

(3) is a corporation with any unpaid Federal tax liability that has been assessed, for which all judicial and administrative remedies have been exhausted, or have lapsed, and that is not being paid in a timely manner pursuant to an agreement with the authority responsible for collecting the tax liability. (USDOT Order 4200.6 implementing appropriations act requirements)

b. Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant should attach an explanation to this proposal.

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

This provision is applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000. 49 CFR Part 20, App. A.

1. The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief, that:

a. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

b. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or

cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

2. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31 U.S.C. 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

3. The prospective participant also agrees by submitting its bid or proposal that the participant shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000 and that all such recipients shall certify and disclose accordingly.

XII. USE OF UNITED STATES-FLAG VESSELS:

This provision is applicable to all Federal-aid construction contracts, design-build contracts, subcontracts, lower-tier subcontracts, purchase orders, lease agreements, or any other covered transaction. 46 CFR Part 381.

This requirement applies to material or equipment that is acquired for a specific Federal-aid highway project. 46 CFR 381.7. It is not applicable to goods or materials that come into inventories independent of an FHWA funded-contract.

When oceanic shipments (or shipments across the Great Lakes) are necessary for materials or equipment acquired for a specific Federal-aid construction project, the bidder, proposer, contractor, subcontractor, or vendor agrees:

1. To utilize privately owned United States-flag commercial vessels to ship at least 50 percent of the gross tonnage (computed separately for dry bulk carriers, dry cargo liners, and tankers) involved, whenever shipping any equipment, material, or commodities pursuant to this contract, to the extent such vessels are available at fair and reasonable rates for United States-flag commercial vessels. 46 CFR 381.7.

2. To furnish within 20 days following the date of loading for shipments originating within the United States or within 30 working days following the date of loading for shipments originating outside the United States, a legible copy of a rated, 'on-board' commercial ocean bill-of-lading in English for each shipment of cargo described in paragraph (b)(1) of this section to both the Contracting Officer (through the prime contractor in the case of subcontractor bills-of-lading) and to the Office of Cargo and Commercial Sealift (MAR-620), Maritime Administration, Washington, DC 20590. (MARAD requires copies of the ocean carrier's (master) bills of lading, certified onboard, dated, with rates and charges. These bills of lading may contain business sensitive information and therefore may be submitted directly to MARAD by the Ocean Transportation Intermediary on behalf of the contractor). 46 CFR 381.7.

**ATTACHMENT A - EMPLOYMENT AND MATERIALS
PREFERENCE FOR APPALACHIAN DEVELOPMENT HIGHWAY
SYSTEM OR APPALACHIAN LOCAL ACCESS**

ROAD CONTRACTS (23 CFR 633, Subpart B, Appendix B)

This provision is applicable to all Federal-aid projects funded under the Appalachian Regional Development Act of 1965.

1. During the performance of this contract, the contractor undertaking to do work which is, or reasonably may be, done as on-site work, shall give preference to qualified persons who regularly reside in the labor area as designated by the DOL wherein the contract work is situated, or the subregion, or the Appalachian counties of the State wherein the contract work is situated, except:

a. To the extent that qualified persons regularly residing in the area are not available.

b. For the reasonable needs of the contractor to employ supervisory or specially experienced personnel necessary to assure an efficient execution of the contract work.

c. For the obligation of the contractor to offer employment to present or former employees as the result of a lawful collective bargaining contract, provided that the number of nonresident persons employed under this subparagraph (1c) shall not exceed 20 percent of the total number of employees employed by the contractor on the contract work, except as provided in subparagraph (4) below.

2. The contractor shall place a job order with the State Employment Service indicating (a) the classifications of the laborers, mechanics and other employees required to perform the contract work, (b) the number of employees required in each classification, (c) the date on which the participant estimates such employees will be required, and (d) any other pertinent information required by the State Employment Service to complete the job order form. The job order may be placed with the State Employment Service in writing or by telephone.

If during the course of the contract work, the information submitted by the contractor in the original job order is substantially modified, the participant shall promptly notify the State Employment Service.

3. The contractor shall give full consideration to all qualified job applicants referred to him by the State Employment Service. The contractor is not required to grant employment to any job applicants who, in his opinion, are not qualified to perform the classification of work required.

4. If, within one week following the placing of a job order by the contractor with the State Employment Service, the State Employment Service is unable to refer any qualified job applicants to the contractor, or less than the number requested, the State Employment Service will forward a certificate to the contractor indicating the unavailability of applicants. Such certificate shall be made a part of the contractor's permanent project records. Upon receipt of this certificate, the contractor may employ persons who do not normally reside in the labor area to fill positions covered by the certificate, notwithstanding the provisions of subparagraph (1c) above.

5. The provisions of 23 CFR 633.207(e) allow the contracting agency to provide a contractual preference for the use of mineral resource materials native to the Appalachian region.

6. The contractor shall include the provisions of Sections 1 through 4 of this Attachment A in every subcontract for work which is, or reasonably may be, done as on-site work.

FEDERAL AID ATTACHMENT 9

STATE MANDATORY ADDENDUM TO FHWA-1273 REQUIRED CONTRACT PROVISIONS, FEDERAL AID CONSTRUCTION CONTRACTS AS AMENDED OR SUPPLEMENTED

ALL CONTRACTORS MUST PROVIDE THIS LANGUAGE IN ANY CONTRACT WITH THEIR SUBCONTRACTORS AS REQUIRED BY 2 CFR PART 200 AND 2 CFR PART 200 APPENDIX II AND IS CURRENTLY NOT INCLUDED IN FHWA-1273, BUT IS REFLECTED IN PROPOSED AMENDMENTS NOT YET FINALIZED.

FHWA-1273 shall be read to include:

1. All references to “race, religion, sex, color, national origin, age or disability” shall be read to include “sexual orientation and gender identity”.
2. SECTION IV. DAVIS-BACON ACT AND RELATED ACT PROVISIONS shall apply if the project is defined to be on a Federal Aid highway, regardless of the location of the project in compliance with 23 USC 133(i).
3. SECTION IX. IMPLEMENTATION OF CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT shall require in conformance with 2 CFR Part 200 and 2 CFR Part 200 Appendix II that contractors on all Federal Aid construction contracts in excess of \$150,000 and all related subcontracts, supply contracts and vendor contracts “comply with all related standards, orders or regulations issued pursuant to the Clean Air Act (42 USC 7401-7671q) and the Federal Water Pollution Control Act as amended (33 USC 1251-1387) as required by 2 CFR 200.326.
4. SECTION X. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION shall be read to comply with 2 CFR Part 200 and 2 CFR Part 200 Appendix II to replace the Excluded Parties List System with the System For Award Management (SAM) as required by 2 CFR Part 180.
5. If the work requires that cargo be shipped by oceanic transport or across the Great Lakes, in compliance with Section 3511 of the Duncan Hunter National Defense Authorization Act of 2009 amending the Cargo Preference Act, each contract shall require that cargoes financed “in any way with Federal funds for the account of any persons unless otherwise exempted” requires the use of US-flag vessels to transport the materials or equipment acquired for a specific Federal Aid construction project.

FEDERAL AID ATTACHMENT 10

FEDERAL MANDATORY EQUAL OPPORTUNITY LANGUAGE ON FEDERAL AID PROJECTS

(AUTHORITY SUBJECT TO 41 CFR 60-1.4 IN COMPLIANCE WITH 2 CFR PART 200 AND 2 CFR PART 200 APPENDIX II)

All Contractors regardless of the value of the contract shall have this mandatory clause with their subcontractors:

The Contractor/Subcontractor hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan, insurance, or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance, or guarantee, the following equal opportunity clause:

During the performance of this contract, the contractor agrees as follows:

- (1) The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, sexual orientation, gender identity, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, sexual orientation, gender identity, or national origin. Such action shall include, but not be limited to the following:

Employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.
- (2) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, or national origin.
- (3) The contractor will not discharge or in any other manner discriminate against any employee or applicant for employment because such employee or applicant has inquired about, discussed, or disclosed the compensation of the employee or applicant or another employee or applicant. This provision shall not apply to instances in which an employee who has access to the compensation information of other employees or applicants as a part of such employee's essential job functions discloses the compensation of such other employees or applicants to individuals who do not otherwise have access to such information, unless such disclosure is in response to a formal complaint or charge, in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or is consistent with the contractor's legal duty to furnish information.
- (4) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (5) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (6) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

- (7) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (8) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (8) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance:

Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: *Provided*, That if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

FEDERAL AID ATTACHMENT 11

BYRD ANTI-LOBBYING CERTIFICATION

Pursuant to 31 USC 1352 and 49 CFR part 21, Contractor and all subcontractors are required to comply with this Attachment. Contractor and all subcontractors shall be responsible to fill out Disclosure of Lobbying Activities Standard Form – LLL (as contained in this Attachment) and report it to the NJDOT Contract Compliance Unit for appropriate disclosure to the Federal Government.

All Contracts and subcontracts over \$100,000 shall require the following mandatory language in every contract:

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, or any employee of a Member of Congress in connection with this Federal contract, grant, loan or cooperative agreement, the undersigned shall complete and submit Disclosure of Lobbying Activities Standard Form – LLL (Federal Aid Attachment Form 11) in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when the transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Pt. 21, App. B

31 CFR Subtitle A (7-1-10 Edition)

APPENDIX B TO PART 21—DISCLOSURE FORM TO REPORT LOBBYING DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB
0348-0046

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

1. Type of Federal Action: <input type="checkbox"/> a. contract <input type="checkbox"/> b. grant <input type="checkbox"/> c. cooperative agreement <input type="checkbox"/> d. loan <input type="checkbox"/> e. loan guarantee <input type="checkbox"/> f. loan insurance		2. Status of Federal Action: <input type="checkbox"/> a. bid/offer/application <input type="checkbox"/> b. initial award <input type="checkbox"/> c. post-award		3. Report Type: <input type="checkbox"/> a. initial filing <input type="checkbox"/> b. material change For Material Change Only: year _____ quarter _____ date of last report _____	
4. Name and Address of Reporting Entity: <input type="checkbox"/> Prime <input type="checkbox"/> Subawardee Tier _____, if known: Congressional District, if known: _____			5. If Reporting Entity in No. 4 is Subawardee, Enter Name and Address of Prime: Congressional District, if known: _____		
6. Federal Department/Agency:			7. Federal Program Name/Description: CFDA Number, if applicable: _____		
8. Federal Action Number, if known:			9. Award Amount, if known: \$ _____		
10. a. Name and Address of Lobbying Entity (if individual, last name, first name, MI): (attach Continuation Sheet(s) SF-LLL-A, if necessary)			b. Individuals Performing Services (including address if different from No. 10a) (last name, first name, MI): (attach Continuation Sheet(s) SF-LLL-A, if necessary)		
11. Amount of Payment (check all that apply): \$ _____ <input type="checkbox"/> actual <input type="checkbox"/> planned			13. Type of Payment (check all that apply): <input type="checkbox"/> a. retainer <input type="checkbox"/> b. one-time fee <input type="checkbox"/> c. commission <input type="checkbox"/> d. contingent fee <input type="checkbox"/> e. deferred <input type="checkbox"/> f. other; specify: _____		
12. Form of Payment (check all that apply): <input type="checkbox"/> a. cash <input type="checkbox"/> b. in-kind; specify: nature _____ value _____					
14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employee(s), or Member(s) contacted, for Payment Indicated in Item 11: (attach Continuation Sheet(s) SF-LLL-A, if necessary)					
15. Continuation Sheet(s) SF-LLL-A attached: <input type="checkbox"/> Yes <input type="checkbox"/> No					
16. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.			Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____		
Federal Use Only:			Authorized for Local Reproduction Standard Form - LLL		

Office of the Secretary of the Treasury

Pt. 21, App. B

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a covered Federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.
2. Identify the status of the covered Federal action.
3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks "Subawardee", then enter the full name, address, city, state and zip code of the prime Federal recipient. Include Congressional District, if known.
6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."
9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered Federal action.
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box(es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the date(s) of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with Federal officials. Identify the Federal official(s) or employee(s) contacted or the officer(s), employee(s), or Member(s) of Congress that were contacted.
15. Check whether or not a SF-LLL-A Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (0348-0046), Washington, D.C. 20503.

**DISCLOSURE OF LOBBYING ACTIVITIES
CONTINUATION SHEET**

Approved by OMB
0348-0046

Reporting Entity: _____ Page _____ of _____

Authorized for Local Reproduction
Standard Form - LLL-A

DBE/ESBE/SBE Forms

ADVISORY NOTICE TO ALL BIDDERS

TOPIC: CIVIL RIGHTS GOAL REQUIREMENTS

Federal - Disadvantaged Business Enterprise (DBE) /

Emerging Small Business Enterprise (ESBE) and

State - Small Business Enterprise (SBE) Goals

The following guidance is provided to help insure your bid is not rejected for being non-responsive and/or not responsible due to State and Federal Civil Rights Goal Requirements.

If the project you will be bidding on has a Federal DBE / ESBE or State SBE Goal, please make note of the following:

- ✓ ***DBE/SBE/ESBE Utilization/Participation Plan and ALL Commitment Forms Must Be Submitted by all Bidders within Five (5) days after bid opening.***
- ✓ ***Be sure to include ALL required forms and documentation as follows:***
 - ***CR-266 “Schedule of DBE/ESBE/SBE Participation”***
 - ***CR-273 “Confirmation of DBE/ESBE/SBE Firm”***
 - ***CR-272 “DBE/ESBE/SBE Regular Dealer/Supplier Verification” – if applicable***
 - ***CR-274 “DBE/ESBE/SBE Trucking Verification” – if applicable***
- ✓ ***Make sure that all required forms are PROPERLY, ACCURATELY and FULLY COMPLETED***

Please note that the following, common errors can cause a bid to be rejected:

- Bidder fails to sign the CR-266;
- Bidder fails to submit **COMPLETED** and **SIGNED** CR-273 confirming agreement for each DBE/ESBE/SBE firm listed on the CR-266
- Not verifying and confirming the proper NAICS Code(s) in the NJUCP directory for the classification of work the DBE is certified for, and committed to perform;
- Bidder completes and signs the CR-273 for the DBE/ESBE/SBE subcontractor;
- Failing to identify the correct item numbers, work descriptions and NAICS codes on the CR-266 and CR-273;
- Bidder fails to submit a **COMPLETED** and **SIGNED** CR-272 (Dealer/Supplier Verification) and/or CR-274 (Trucking Verification) from each DBE/ESBE/SBE dealer/supplier or trucker listed on the CR-266 – when applicable;
- Item Numbers and Contract Amounts on CR-266 and CR-273 don't correspond or match;
- DBE/SBE subcontractor listed on the CR-266 is not in good standing (i.e., not currently certified as a DBE or registered as a SBE);
- Identifying SBE subcontractors on the CR-266 for a Federally funded, DBE goal project and vice-versa; and

- Failure to submit adequate documentation to support Good Faith Efforts (GFE) when the DBE/ESBE/SBE goal is not met.

If you have any questions or need clarification concerning the above forms, please contact the Division of Civil Rights/Affirmative Action's Contractor Compliance Unit at 609-963-2047 or by email at DOT-CR.Verifications@dot.nj.gov.

All serious bidders should submit DBE/ESBE/SBE Participation Plan/Commitment Forms. It is in the best interest of the New Jersey Department of Transportation as well as the contracting community.

NOTE: If the apparent low bidder fails to meet the DBE/ESBE/SBE Goal and does not provide adequate documentation of its Good Faith Efforts, the NJDOT may go to the next lowest and responsive and responsible bidder.

BID BOND

KNOW ALL MEN BY THESE PRESENTS, that we, the undersigned,

_____ as Principal, and _____ as Surety, are hereby held and firmly bound unto the City of Garfield in the penal sum of not less than ten percent of the bid amount to a maximum of \$20,000.00 for the payment of which, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors and assigns.

Signed this _____ day of _____, 20_____

The condition of the above obligation is such that whereas the Principal has submitted to the Borough of _____ a certain Bid, attached hereto, and made a part of hereof, to enter into a contract in writing for _____

NOW THEREFORE,

- A) If said Bid shall be rejected, or, in the alternate,
- B) if said Bid shall be accepted and the Principal shall execute and deliver a contract in the form of contract to be prepared by the Borough Attorney (properly completed in accordance with said Bid) and shall furnish a bond for his faithful performance of said Contract, and shall in all other respects perform the agreement created by the acceptance of the said Bid,

Then, this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood that all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Principal may accept such Bid; and said Surety does hereby waive notice of any such extension.

IN WITNESS WHEREOF, the Principal and Surety have set their hands and seals, and such of them as are corporations having their corporate seals to be hereto affixed and these presents to be signed by their proper corporate officers, the day and year first set forth above.

Principal: _____ (L.S.)

Surety: _____

By: _____

BIDDER'S SAFETY ACKNOWLEDGMENT

The undersigned hereby states that as a principal of the firm submitting this proposal, he or she is fully aware that all safety regulations of the Occupational Safety and Health Administration (OSHA) and the requirements of the State of New Jersey Department of Labor and Industry shall be adhered to on this project and that he or she shall instruct his or her personnel to follow these regulations. These regulations include, but not limited to, the regulations concerning Trench Excavation, Competent Persons and Confined Space Regulations.

If it is observed by an official representative of the municipality that these safety regulations are not being followed and there exists a potential serious safety deficiency that could result in accident, I acknowledge that this municipal representative may stop the project until the safety deficiency is corrected without any claim for additional compensation by this firm.

WITNESS OR ATTESTED BY

SIGNATURE

DATE

NAME OF ORGANIZATION

PRINT NAME AND TITLE OF
PERSON SIGNING

(Must be signed and submitted with Bid Proposal)



New Jersey Department of Transportation Division of Civil Rights & Affirmative Action



Pathway to Civil Rights Compliance on Federally Assisted & State Funded Contracts Bidder Pre-Bid Checklist

Checklist of Items to Address/Actions to Take

On contracts having a DBE, ESBE or SBE goal, as a condition of award, all bidders must demonstrate their commitment of utilizing DBE, ESBE or SBE firms to meet the contract goal, or, if they fail to show a commitment to meet the goal, submit documented evidence of their good faith efforts to meet the goal. In addition, every DBE, ESBE or SBE firm being used to meet the goal, must confirm their intent to perform the kind and type of work on the project, if the bidder wins the award of the contract.

A bidder demonstrates their commitment through NJDOT's CR-266 – Schedule of DBE, ESBE or SBE Participation form.

NOTE: Only certified DBEs can be used to meet DBE goals. Both ESBEs and DBEs can be used to meet an ESBE goal. Only registered SBEs can be used to meet a SBE goal.

In order to avoid situations where a bid could be deemed as non-responsive, review the Advisory Notice to Bidders, and ensure the following:

CR-266 – Schedule of DBE, ESBE or SBE Participation

Federally Funded Contracts		
1.	On projects with DBE goals, make sure that each firm listed is a certified DBE, listed in the NJ UCP Directory, found at: https://njucp.dbesystem.com On projects with ESBE goals, make sure that each firm listed is a certified ESBE, listed in NJDOT's ESBE Directory, found at: https://www.nj.gov/transportation/business/civilrights/pdf/ESBEDirectory.pdf	<input type="checkbox"/>
2.	Ensure each firm is certified in each specific NAICS (North American Industry Classification System) code for the type of work the DBE or ESBE will be performing on the contract. Check the NAICS codes listed for each DBE or ESBE firm. Visit the NAICS website, https://www.naics.com/search/ to search each code the DBE or ESBE is certified in to determine whether the type of work you want them to perform is listed under the specific code.	<input type="checkbox"/>

State Funded Contracts		
1.	On projects with SBE goals, make sure that each firm listed is a registered SBE, listed in the NJSAVI Directory, found at: https://www20.state.nj.us/TYTR_SAVI/vendorSearch.jsp	<input type="checkbox"/>
2.	Ensure each firm is registered to perform the for type of work the SBE will be performing on the contract. Search by Craft or Commodity Code.	<input type="checkbox"/>

CR-266 Form – The Bidder is to complete the following for each firm the bidder lists on the form.		
3.	Indicate the correct classification for the type of role the firm will perform on the contract. i.e: Subcontractor, supplier, regular dealer, trucker/hauler, broker or manufacturer	<input type="checkbox"/>
4.	Indicate whether the firm is a DBE, ESBE or SBE	<input type="checkbox"/>
5.	List the firm's complete name, address, phone number and email as found in the corresponding directory.	<input type="checkbox"/>

For each firm being listed on the CR-266 form (continued)		
6.	List the specific NAICS code(s) that the firm has that correspond to the firm's performance on the contract.	
7.	Describe the specific type of work each firm will be performing (i.e. supply of XXX; furnish & install XXX; hauling of XXX; manufacture XXX; Engineering drawings for XXX; etc.)	<input type="checkbox"/>
8.	List each specific contract item (sequence number) and associated item description that the firm will perform on the contract	<input type="checkbox"/>
9.	List the proposed subcontract dollar value. This should be the price that each bidder and the DBE, ESBE or SBE firm have mutually agreed upon for the DBE, ESBE or SBE's work on the contract. NOTE: Once this is listed on the CR-266 and approved by NJDOT Civil Rights, there can be no revisions to this amount unless Civil Rights provides prior written approval.	<input type="checkbox"/>
10.	List the projected start and completion dates of the proposed DBE, ESBE or SBE's work on the contract.	<input type="checkbox"/>
11.	List the Bidder's Name and bid amount.	<input type="checkbox"/>
12.	List the complete formal project name, including DP number, as shown on plans.	<input type="checkbox"/>
13.	Check the box indicating the type of goal set on the contract.	<input type="checkbox"/>
14.	Sign and date the form.	<input type="checkbox"/>

DBE, ESBE and SBE firms show confirmation of their intent to participate in the contract in the type and kind of work each bidder is committing them to perform via several of NJDOT's forms, specifically the: CR-273 and applicable CR-272 and CR-274. Bidders should provide these forms to each respective DBE, ESBE or SBE firm, and request the firm to complete and return them to the bidder.

NOTE: Each DBE, ESBE or SBE must complete all portions of the confirmation/verification forms. Bidders are not permitted to complete any portion (including the contract name, dollar value or specific work items). Each form must be signed by the respective DBE, ESBE or SBE.

1. A CR-273 is needed for every firm a bidder lists on the CR-266.
2. In addition to the CR-273, a CR-272 is needed from every regular dealer/supplier the bidder lists on the CR-266.
3. In addition to the CR-273, a CR-274 form is needed from every trucker/hauler the bidder lists on the CR-266.

If a bidder fails to demonstrate a commitment to meet the contract goal, they must submit documented evidence of good faith efforts they made to meet the goal.

All Civil Rights documentation is required either at time of bid, or within 5 days of bid opening, and is required to be submitted to: DOT-CR.Verifications@dot.nj.gov

All questions concerning NJDOT project lettings should be directed through BidX.

All questions for Locally Administered projects, should be directed to the Sponsor/Grantee.

CLASSIFICATIONS

Under 49 C.F.R. 26.107 dated February 2, 1999 and January 28, 2011, if at any time, the Department or a recipient has reason to believe that any person or firm has willfully and knowingly provided incorrect information or made false statements, the Department may take enforcement action under 49 C.F.R. Part 31, Program Fraud and Civil Remedies, and/or refer the matter to the Department of Justice for criminal prosecution under 18 U.S.C. 1001, which prohibits false statements in Federal programs.

RE Concurrence: _____

- 3.) Form CR-272 "DBE/ESBE/SBE Regular Dealer/Supplier Verification", must be completed and signed by each DBE/ESBE/SBE Regular Dealer/Supplier listed below. A Regular Dealer/Supplier must maintain inventory and/or own or operate distribution equipment.

☐ SBE

(Complete as shown on plans)

Revision Number: _____

[illegible]

NJ Department of Transportation
Division of Civil Rights & Affirmative Action

DBE/ESBE/SBE REGULAR DEALER/SUPPLIER VERIFICATION FORM

(To be completed by DBE/ESBE/SBE firm)

Project Name:		DP Number
Bidder/Prime Contractor:		
DBE/ESBE/SBE Firm:	Address:	Phone Number

Provide a brief description of the material(s) your firm will be supplying and the Prime is requesting be credited as a regular dealer (include item number and estimate quantities when possible).

If either question is marked "No", the the Bidder/Prime Contractor cannot receive regular dealer credit for the services provided by the DBE/ESBE/SBE firm. Instead, the maximum credit that could be received would be the fee or commission the DBE/ESBE/SBE firm receives for its services. Before executing this form, read the "Guide for Counting DBE/ESBE/SBE Suppliers" on page 2 which includes the official question and answer issued by the United States Department of Transportation.

Check one for each question

1. Does your firm 'regularly' engage in the purchase and sale or lease, to the general public in the usual course of its business, of product(s) of the general character which will be involved in this contract and for which DBE/ESBE/SBE credit is being sought?

☐ Yes

☐ No

2. Is the role your firm will play on this specific contract be consistent with the regular sale or lease of the product(s) in question, as distinct from a role better understood as that of a broker, packager, manufacturer's representative, or other person who arranges or expedites a transaction?

☐ Yes

☐ No

Authorized Representative of DBE/ESBE/SBE Firm

The undersigned individual hereby verifies that he/she is authorized to make this verification on behalf of the DBE/ESBE/SBE firm, that the DBE/ESBE/SBE firm 'regularly' engages in the purchase and sale or lease of the items listed herein and is not otherwise a package, broker, manufacturer representative, or other person who arranges or expedites transactions, the the answers and information provided herein are true and correct to the best of her/his knowledge, information and belief and that this verification is made subject to the penalties of 49 CFR Part 26.

Signature

Date

Printed Name

Phone Number

Authorized Representative of Bidder/Prime Contractor

The undersigned individual hereby verifies the he/she is authorized to make this verification on behalf of the Bidder/Prime Contractor, that, to the best of his/her knowledge, information and belief, the DBE/ESBE/SBE firm 'regularly' engages in the purchase and sale or lease of the items listed herein and is not otherwise a packager, broker, manufacturer representative, or other person who arranges or expedites transactions and that this verification is made subject to the penalties of 49 CFR Part 26.

Under 49 C.F.R. 26.107 dated February 2, 1999 and January 28, 2011, if at any time, the Department or a recipient has reason to believe that any person or firm has willfully and knowingly provided incorrect information or made false statements, the Department may take enforcement action under 49 C.F.R. Part 31, Program Fraud and Civil Remedies, and/or refer the matter to the Department of Justice for criminal prosecution under 18 U.S.C. 1001, which prohibits false statements in Federal programs.

Signature	Date
Printed Name	Phone Number

GUIDANCE FOR COUNTING DBE/ESBE/SBE REGULAR DEALER/SUPPLIERS

- The official question and answer (q and a) issued by the United States Department of Transportation on December 9, 2011 as institutional guidance relative to regular dealers poses two questions that must both be answered 'yes' in order for the DBE/ESBE/SBE firm to receive regular dealer credit for materials supplied on federally-assisted transportation projects.
- Following is the official q and a in italics:
- *First, does the firm "regularly" engage in the purchase and sale or lease, to the general public in the usual course of its business, of products of the general character involved in the contract and for which DBE/ESBE/SBE credit is sought?*
 - *Answering this question involves attention to the activities of the business over time, both within and outside the context for the DBE/ESBE/SBE program.*
 - *The distinction to be drawn is between the regular sale or lease of the products in question and merely occasional or ad hoc involvement with them.*
 - *In answering this question, the New Jersey Department of Transportation will not insist that every single item the DBE/ESBE/SBE firm supplies be physically present in the firm's store, warehouse, etc. before it is sold to a contractor. However, the establishment in which the firm keeps items it sells to the general public should be more than a token location.*
 - *For example, a mere showroom, the existence of a hard-copy or on-line catalog, or the presence of small amounts of material that make questionable the ability of the firm to effectively supply quantities typically needed on a contract, are generally not sufficient to demonstrate that a firm regularly deals in the items.*
- *Second, is the role the firm plays on the specific contract in question consistent with the regular sale or lease of the products in question, as distinct from a role better understood as that of a broker, packager, manufacturer's representative, or other person who arranges or expedites a transaction?*
 - *For example, a firm that regularly stocks and sells Product X may, on a particular contract, simply communicate a prime contractor's order for Product Y to the manufacturer, acting in a transaction expediting capacity.*
 - *This means that a firm that acts as a regular dealer on one contract does not necessarily act as a regular dealer on other contracts. For example, a firm that acts as a regular dealer on Contract #1 may act simply as a "transaction expeditor" or "broker" on Contract #2. It would receive DBE/ESBE/SBE credit for 60 percent of the value of the goods supplied on Contract #1 while only receiving DBE/ESBE/SBE credit for its fee or commission on Contract #2.*
 - *In some circumstances, items are "drop-shipped" directly from a manufacturer's facility to a job site, never being in the physical possession of or transported by a supplier. In many such cases, the supplier's role may involve nothing more than contacting the manufacturer and placing a job-specific order for an item that the manufacturer then causes to be transported to the job site.*
 - *In such a situation, the supplier's role may often be better described as that of a "broker" or "transaction expeditor" (see 26.55(e)(2)(ii)(C) than as a "regular dealer." In such a case, DBE/ESBE/SBE credit is limited to the fee or commission the firm receives for its services. If the firm does not prove any commercially useful function (i.e., it is simply inserted as an extra participant in a transaction, then no DBE/ESBE/SBE credit can be counted.*
- The Department proposes that primes submit the two questions to DBE/ESBE/SBEs in writing. If the DBE/ESBE/SBE firm answers 'yes' to both questions, then the written documentation would be taken into account in the Department's good faith effort determination in accordance with Section 26.53 of the federal DBE/ESBE/SBE regulation set forth in Title 49 Code of Federal Regulations Part 26.
- If it were later determined that the DBE/ESBE/SBE misrepresented itself or erroneously concluded that it was acting as a regular dealer, the Department would strongly consider this documentation in evaluating the actions of the prime and in determining whether the prime exercised reasonable due diligence by obtaining a written regular dealer confirmation from the DBE/ESBE/SBE even though it later turned out to be false.
- Participation would still have to be revised, but the Department will fully consider the written documentation in its good faith effort review.
- The Department reserves the right to address any misrepresentation by the DBE/ESBE/SBE firm or the prime consistent with the "Contract Special Provisions" and other requirements and procedures for determinations of whether a contractor has acted responsibly.

New Jersey Department of Transportation Confirmation of DBE/ESBE/SBE Firm

TO BE COMPLETED BY DBE/ESBE/SBE FIRM

Name of DBE/ESBE/SBE Firm: _____

DBE/ESBE/SBE Firm's Contact Information: _____

Address: _____

Phone: _____

E-mail Address: _____

NJDOT Project Name: _____

DP Number (provided by Bidder): _____

Bidder (Prime): _____

Proposed Start Date of DBE/ESBE/SBE Firm's Work: _____

Proposed Dollar Amount of DBE/ESBE/SBE Work if Contract is awarded to Bidder (Prime): _____

Proposed DBE/ESBE/SBE Work Items, Including Item Descriptions _____

Please answer each question listed below	Yes	No
If this project is awarded to the Bidder/Prime Contractor listed, do you verify your intent to complete the proposed subcontract work items?	<input type="checkbox"/>	<input type="checkbox"/>
Are all of your employees carried on your firm's payroll?	<input type="checkbox"/>	<input type="checkbox"/>
Is your firm's equipment registered in your name?	<input type="checkbox"/>	<input type="checkbox"/>
If not, is it leased from the Bidder/Prime Contractor or any other contractor on the project?	<input type="checkbox"/>	<input type="checkbox"/>
Will the equipment you use display your firm's name or logo?	<input type="checkbox"/>	<input type="checkbox"/>
Is you Superintendent or Foreman working as an employee of any other contractor or subcontractor on the project?	<input type="checkbox"/>	<input type="checkbox"/>
Are any of your firm's employees also working for the Bidder/Prime Contractor?	<input type="checkbox"/>	<input type="checkbox"/>
For Truckers Only: Will you be responsible for the management and supervision of the entire trucking operation for which you are contracted to perform?	<input type="checkbox"/>	<input type="checkbox"/>
For Suppliers Only: Do you own, operate or maintain a store, warehouse, or other establishment in which the materials, supplies or equipment required under the Contract are bought, kept in stock and regularly sold or leased to the public in the usual course of business?	<input type="checkbox"/>	<input type="checkbox"/>

Title: _____

Signature of DBE/ESBE/SBE Firm Representative

Date: _____

I certify that the foregoing statements and information made are true. I am aware that if of the foregoing statements made are willingly false, I am subject to punishment. I further certify that I have full power and authority to execute this certification on behalf of the DBE/ESBE/SBE firm, _____ and that all approvals and other actions necessary in connection with the execution of this certification by the above signed have been obtained and are in full force and effect as to the date of execution of this certification.

Under 49 C.F.R. 26.107 dated February 2, 1999 and January 28, 2011, if at any time, the Department or a recipient has reason to believe that any person or firm has willfully and knowingly provided incorrect information or made false statements, the Department may take enforcement action under 49 C.F.R. Part 31, Program Fraud and Civil Remedies, and/or refer the matter to the Department of Justice for criminal prosecution under 18 U.S.C. 1001, which prohibits false statements in Federal programs.

NEW JERSEY DEPARTMENT OF TRANSPORTATION DBE/ESBE/SBE**TRUCKING VERIFICATION**

This commitment is subject to the award and receipt of a signed contract from the New Jersey Department of Transportation for the subject project. Note that copies of all supporting documents must be attached.

Project Name:			
Bidder/Prime Contractor Name:			
Address:			County
Telephone Number:	E-mail Address:		DP Number:
Trucking Firm Name:			
Address:			Telephone Number:

The DBE/ESBE/SBE Trucking Firm will perform the following described work on the project:

Bid Items	Item Description	Unit	Unit Price	Quantity	Total
			\$		\$
			\$		\$
			\$		\$
			\$		\$
Total Commitment Amount (Amount of DBE/ESBE/SBE Subcontract): \$					

Location(s) material will be transported:

Total number of fully operational DBE/ESBE/SBE owned trucks to be used on contract: _____

First Tier DBE/ESBE/SBE Trucking Firm			
Number of trucks owned: _____			
Specify ALL Vehicle information:			
Vehicle Identification Number (VIN)	Year	Make	Model

Project Name:		
Bidder/Prime Contractor:	Trucking Firm:	DP Number:

If owner/operator or additional trucking firms are to be used, provide the following information:

Vehicle Identification Number (VIN)	Year	Make	Model

Total number of fully operational trucks to be leased from a DBE/ESBE/SBE: _____

Copies of lease agreements for each trucking firm must be submitted to NJDOT if the contract is awarded.

(Note: Subcontracting if different from leasing as it relates to trucking.)

DBE/ESBE/SBE TRUCKING FIRM VEHICLE INFORMATION

Firm Name	Vehicle Identification Number (VIN)	Year	Make	Model

Total number of fully operational trucks to be leased from a non-DBE/ESBE/SBE: _____

Copies of lease agreements for each trucking firm must be submitted to NJDOT if the contract is awarded.

(Note: Subcontracting if different from leasing as it relates to trucking.)

NON-DBE/ESBE/SBE TRUCKING FIRM VEHICLE INFORMATION

Firm Name	Vehicle Identification Number (VIN)	Year	Make	Model

Under 49C.F.R. 26.107 dated February 2, 1999 and January 28, 2011, if at any time, the Department or a recipient has reason to believe that any person or firm has willfully and knowingly provided incorrect information or made false statements, the Department may take enforcement action under 49 C.F.R. Part 31, Program Fraud and Civil Remedies, and/or refer the matter to the Department of Justice for criminal prosecution under 18 U.S.C. 1001, which prohibits false statements in Federal programs.

Print Name: _____

First Tier DBE/ESBE/SBE Signature: _____

Date: _____

DBE/ESBE/SBE TRUCKING VERIFICATION

The attached DBE/ESBE/SBE Trucking Firm Verification Form must be completed and signed by the 1st Tier DBE/ESBE/SBE.

Make duplicate copies for additional subcontractors as needed.

- DBE/ESBE/SBE's must provide information for all DBE/ESBE/SBE & Non-DBE/ESBE/SBE trucking firms that it will contract or lease from.
 - Subcontracting to a Non-DBE/ESBE/SBE trucker means that the Non-DBE/ESBE/SBE will perform a portion of the DBE/ESBE/SBE firm's subcontract.
 - 2nd Tier DBE/ESBE/SBE trucking firms must perform 100% of their total subcontract value.
- For Non-DBE/ESBE/SBE leased trucks, credit will only be given for the fee/commission that is received for arranging the transportation services.
 - All DBE/E-leased trucks are required to reflect the DBE/ESBE/SBE firm's company name and identification number.

Copies of the following items must be attached for ALL trucks owned by the DBE/ESBE/SBE:

- Proof of ownership: title(s) or finance agreement(s)
- Registration card(s)
- Insurance card(s)
- Hazardous waste license(s), if applicable
- Apportioned cab card(s), if applicable

Copies of the following items must be attached for all DBE/ESBE/SBE and non-DBE/ESBE/SBE trucks leased by the DBE/ESBE/SBE:

- Lease agreement(s)
- Title(s)
- Registration card(s)
- Insurance card(s)
- Hazardous waste license(s), if applicable
- Apportioned cab card(s), if applicable



New Jersey Department of Transportation

Division of Civil Rights & Affirmative Action

Monthly Employment Utilization CC-257R Electronic Reporting Information

Reporting of workforce information via Form CC-257R is now available on the internet through the New Jersey portal at <https://www.nj.gov>

To access this application, you need: **1)** to be registered with the New Jersey Portal (My NewJersey); and **2)** to receive an authorization code (via email) that will provide you with the link to the application.

If you already have a portal account, DO NOT register again.

The instructions below explain the registration process for a portal account. Please follow these instructions carefully.

New Jersey Portal Registration Instructions

If you have already registered on the New Jersey portal and need to enter an Authorization Code for a new application, go to <https://www.nj.gov> and follow the instructions beginning at Step 7 below.

1. Open an Internet browser and type <https://www.nj.gov> in the address box and press <Enter>
2. At the top left (under the "Home" tab) are the "Login" and "Register" boxes for the portal
3. Click on "[Register](#)"
4. In the dialog box entitled "Create Your My New Jersey Account," enter a Logon ID and Password of your choosing and the rest of the requested information. Be sure to include a challenge question and valid email address in case you forget your password. (This is the account your Portal password will be sent to if you forget it. You will not be able to get into the application if you do not log onto the Portal)
5. Now that you have created your account, logout. The next step is to verify the existence of your new account.
6. Log in your account using your newly created Logon ID and Password.

Activating Authorization Code

Authorization codes will be sent via email under separate cover, after you have emailed the following to trnsport@dot.nj.gov:

1. Company Name
2. Email Address for company Official or CEO
3. Company's Federal Identification Number
4. Contact Person's Name (this should be the person who registered the account and will be logging on and supplying the requested employment data)
5. Contact Person's email address

Monthly Employment Utilization CC-257R Electronic Reporting Instructions - continued

Once you receive the code, follow the instructions below to access the CC-257R reporting program.

6. Once logged into the Portal, select “Enter Authorization Code.”
7. Follow the instructions carefully. Type the code in the text box labeled, “Enter your authorization code” and click the “Finished” button. Note that the code is case sensitive.
8. The system will log you out.
9. Log into your account. Your new application will have a link under the NJDOT heading.

Please Note

1. Federal Executive Order 11246 requires workforce reporting to be completed monthly by both prime and subcontractors.
2. The prime contractor submits a report for its total workforce and is responsible for ensuring that its subcontractors submit their respective reports.
3. These reports are to be submitted by the 10th day of each month during the term of the contract, and include the total work hours for each employee classification in each trade in the covered area for the monthly reporting period.
4. The state job number (CE#) specific to the project is the unique identifier needed for reporting, and inserted in the Job Number field.
5. Each report should be based on a calendar month, starting on the 1st, and ending on the last day of the month being reported.

Also Note:

1. Under no circumstances should you give your authorization code to another user. This code has been personalized for your particular need.
2. Questions concerning the workforce report should be directed to the NJDOT, Division of Civil Rights/Affirmative Action at (609) 963-2047.
3. Questions concerning the request for authorization code should be directed to NJDOT's AASHTOWare Support Staff - Jonathan Ruff at (609) 963-1564.
4. For problems with system errors in the Vendor Workforce Reporting System, please contact Joseph Licari, Jr. at: Joseph.LicariJr@dot.nj.gov

LPA/Contractor/Sub-Contractor Letterhead

BYRD ANTI-LOBBYING AMENDMENT CERTIFICATION

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned, [Company] _____ certifies, to the best of his or her knowledge, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form - LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

The Contractor, [Company] _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. § 3801 *et seq.*, apply to this certification and disclosure, if any.

Please check the appropriate box:

☐ No non-federal funds have been used or are planned to be used for lobbying in connection with this application/award/contract.

or

☐ Attached is Standard Form LLL, "Disclosure of Lobbying Activities," which describes the use (past or planned) of non-federal funds for lobbying in connection with this application/award/contract.

Executed this _____ day of _____, 20 _____

By: _____

(Type or Print Name) (Title of Executing Official)

(Signature of Executing Official) (Name of Organization/Applicant)

COUNTY OF UNION
BOARD OF COUNTY COMMISSIONERS

INTERSECTIONS ALONG EAST
AND WEST 7TH STREET (CR 601)
AND THE INTERSECTION OF EAST FRONT
STREET (CR 620) AND LELAND AVENUE

COUNTY OF UNION, NEW JERSEY
FEDERAL PROJECT No. HSIP-D00S(627)

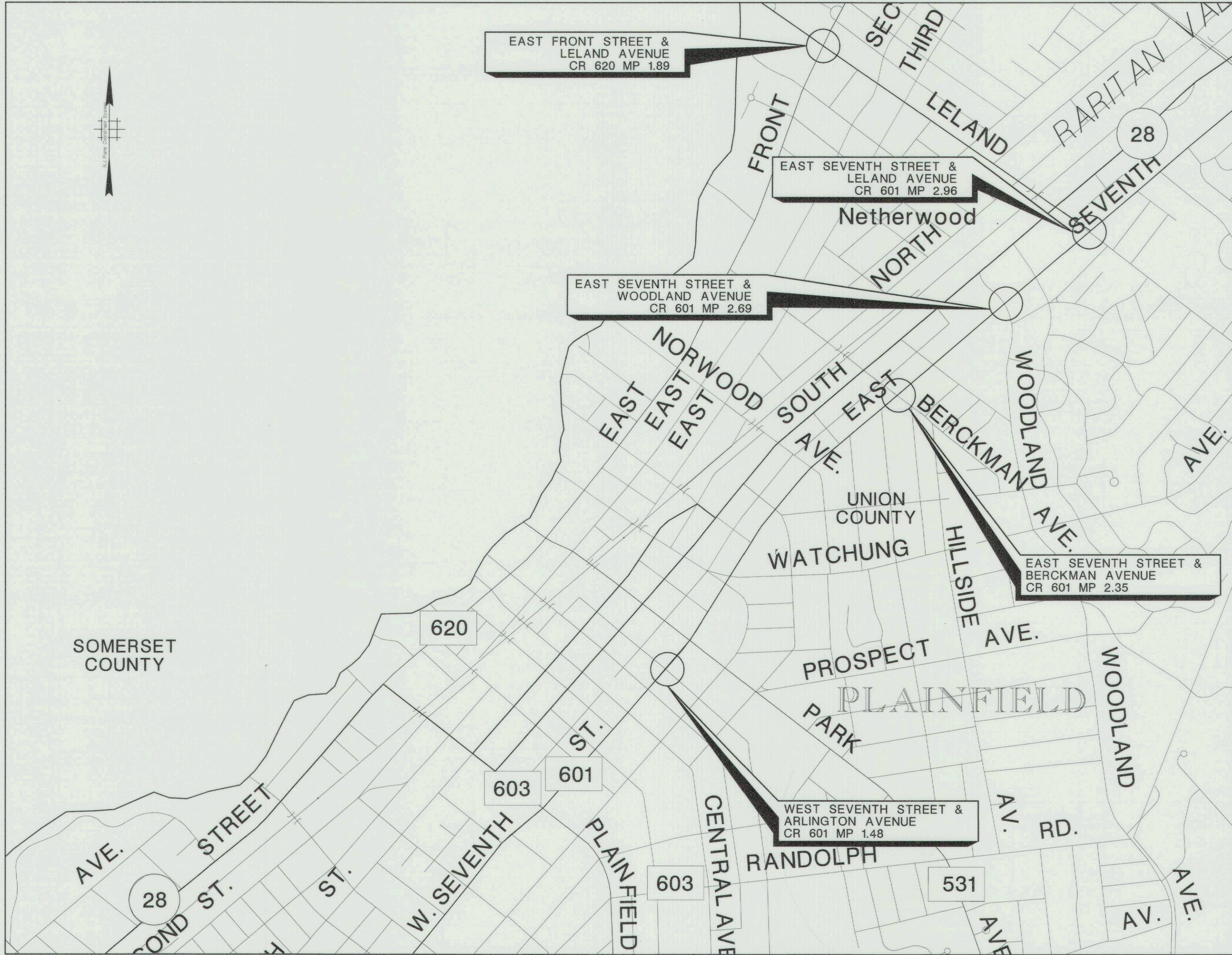
CITY OF PLAINFIELD MAY 2022 UNION COUNTY

UTILITIES	
NEW JERSEY AMERICAN WATER CO.(WATER)	
UNION COUNTY UTILITIES AUTHORITY (SEWER)	
PLAINFIELD UTILITIES AUTHORITY (WATER AND SEWER)	
PUBLIC SERVICE ELCTRIC & GAS (ELECTRIC)	
PUBLIC SERVICE ELCTRIC & GAS (GAS)	
COMCAST CABLE COMMUNICATIONS MANAGEMENT LLC	
CABLE TV	
VERIZON NEW JERSEY, INC.	
NEW JERSEY DEPARTMENT OF TRANSPORTATION	
(ITS, HIGHWAY LIGHTING, AND TRAFFIC SIGNALS)	

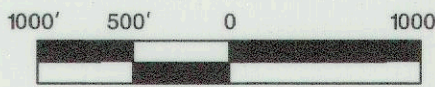
DESIGN TRAFFIC DATA EAST FRONT STREET (CR 620)		
A.D.T. (2020) 2 WAY	=	10,371 vpd
V	=	35 M.P.H
DESIGN TRAFFIC DATA EAST SEVENTH STREET (CR 601)		
A.D.T. (2017) 2 WAY	=	11,875 vpd
V	=	35 M.P.H
DESIGN TRAFFIC DATA WEST SEVENTH STREET (CR 601)		
A.D.T. (2017) 2 WAY	=	14,027 vpd
V	=	30 M.P.H
DESIGN TRAFFIC DATA LELAND AVENUE		
A.D.T. (2018) 2 WAY	=	13,844 vpd
V	=	25 M.P.H

INDEX OF SHEETS	
SHEET	DESCRIPTION
1	KEY
2	ESTIMATE - DISTRIBUTION OF QUANTITIES
3	TYPICAL SECTIONS
4-9	CONSTRUCTION PLANS
10-11	TIES
12-16	LAYOUT PLANS
17-21	PLAN SHEET INDEX
22-31	CURB RAMP LAYOUT DETAIL
32	TRAFFIC CONTROL AND STAGING PLANS
33-47	ELECTRICAL PLANS
48-53	TRAFFIC SIGNAL, SIGNING AND STRIPING PLANS
54-67	CONSTRUCTION DETAILS
68-82	ELECTRICAL DETAILS
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STANDARD ROADWAY
CONSTRUCTION/TRAFFIC CONTROL/
BRIDGE CONSTRUCTION DETAILS
BOOKLET, DECEMBER 2019, AND STANDARD
ELECTRICAL DETAILS BOOKLET,
ARE APPLICABLE TO THIS
PROJECT EXCEPT FOR THOSE
DETAILS CONTAINED HEREIN.



KEY MAP



NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019
AND CURRENT SUPPLEMENTARY SPECIFICATIONS THERETO TO GOVERN

RECOMMENDED BY: *Chew Disen* 5/18/22
CITY OF PLAINFIELD ENGINEER, UNION COUNTY
Date

APPROVED BY: *Adrian O. Mapp* 5/20/22
ADRIAN O. MAPP
CITY OF PLAINFIELD MAYOR, UNION COUNTY
Date

RECOMMENDED BY: *Ricardo Matias* 5/20/22
RICARDO MATIAS, P.E.
COUNTY ENGINEER, UNION COUNTY
Date

APPROVED BY: *Edward F. Oatman* 6/4/22
EDWARD OATMAN
COUNTY MANAGER, UNION COUNTY
Date

"CHANGES MADE TO THESE PLANS SINCE SIGNATURE BY
THE CONSULTANT MAY BE DETERMINED BY COMPARISON
OF THE PLANS FILED AT THE DEPARTMENT WITH
THOSE FILED AT THE OFFICE OF THE CONSULTANT."

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

Brad J. Miller
BRAD J. MILLER
NEW JERSEY P.E. LICENSE NO. 24GE04927300

COUNTY OF UNION
BOARD OF COUNTY COMMISSIONERS

INTERSECTIONS ALONG EAST
AND WEST 7TH STREET (CR 601)
AND THE INTERSECTION OF EAST FRONT
STREET (CR 620) AND LELAND AVENUE

COUNTY OF UNION, NEW JERSEY
FEDERAL PROJECT No. HSIP-D00S(627)
STATE JOB No. 7412317

SEWER

UNION COUNTY
UTILITIES AUTHORITY
1499 ROUTES 1 & 9 NORTH
RAHWAY, NJ 07065
ATTN: WILLIAM NEAFSEY
TEL: 732-382-9400

PLAINFIELD MUNICIPAL
UTILITIES AUTHORITY
127 ROOSEVELT AVENUE
PLAINFIELD, NJ 07060
ATTN: BEVERLEY MORRIS-GILL
TEL: 908-226-2518

WATER

NEW JERSEY AMERICAN
WATER CO
1 WATER STREET
CAMDEN, NJ 08012
ATTN: MELISSA HAZELTON
TEL: 856-955-4403

ELECTRIC

PSE&G
4000 HADLEY ROAD, M/C 430
SOUTH PLAINFIELD, NJ 07080
ATTN: JERRY LAURIZIO
TEL: (908) 412-220

GAS

PSE&G
4000 HADLEY ROAD, M/C 430
SOUTH PLAINFIELD, NJ 07080
ATTN: JERRY LAURIZIO
TEL: (908) 412-220

TELEPHONE

VERIZON NEW JERSEY INC.
657 FLORIDA GROVE ROAD
HOPELAWN, NJ 08861
ATTN: THOMAS H. YOUNG
TEL: (732) 683-5174

CABLE

AT&T CORP.
400 HAMILTON AVENUE
WHITE PLAINS, NY 10601
ATTN: LOU MARELLO
TEL: (914) 397-3744
(914) 397-3744 [CELL]
(973) 584-0163 [FAX]

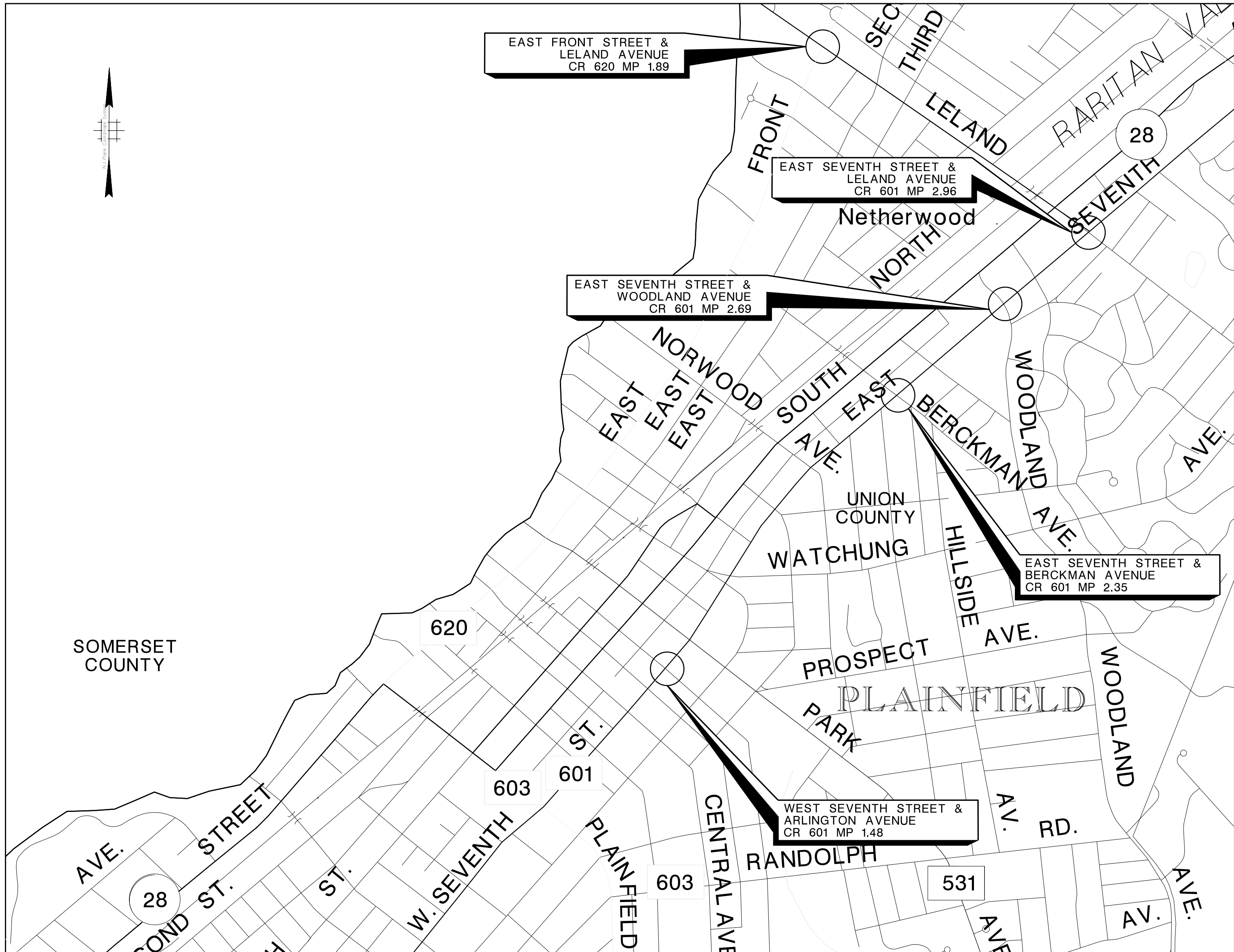
CABLE

COMCAST (CATV)
REGION NORTH
800 RAHWAY AVENUE
UNION, NJ 07083
ATTN: JIM FAULKNER
TEL: (201) 954-7470

CITY OF PLAINFIELD

JANUARY 2025

UNION COUNTY



KEY MAP



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BRIDGE CONSTRUCTION DETAILS
BOOKLET, DECEMBER 2016, AND STANDARD
ELECTRICAL DETAILS BOOKLET,
ARE APPLICABLE TO THIS
PROJECT EXCEPT FOR THOSE
DETAILS CONTAINED HEREIN.

RECOMMEDED BY: _____

CITY OF PLAINFIELD ENGINEER, UNION COUNTY

APPROVED BY: _____

ADRIAN O. MAPP
CITY OF PLAINFIELD MAYOR, UNION COUNTY

RECOMMENDED BY: _____

RICARDO MATIAS, P.E.
COUNTY ENGINEER, UNION COUNTY

APPROVED BY: _____

EDWARD OATMAN
COUNTY MANAGER, UNION COUNTY

DESIGN TRAFFIC DATA
EAST FRONT STREET (CR 620)

A.D.T. (2020) 2 WAY	=	10,371 vpd
V	=	35 M.P.H

DESIGN TRAFFIC DATA
EAST SEVENTH STREET (CR 601)

A.D.T. (2017) 2 WAY	=	11,875 vpd
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DESIGN TRAFFIC DATA
LELAND AVENUE

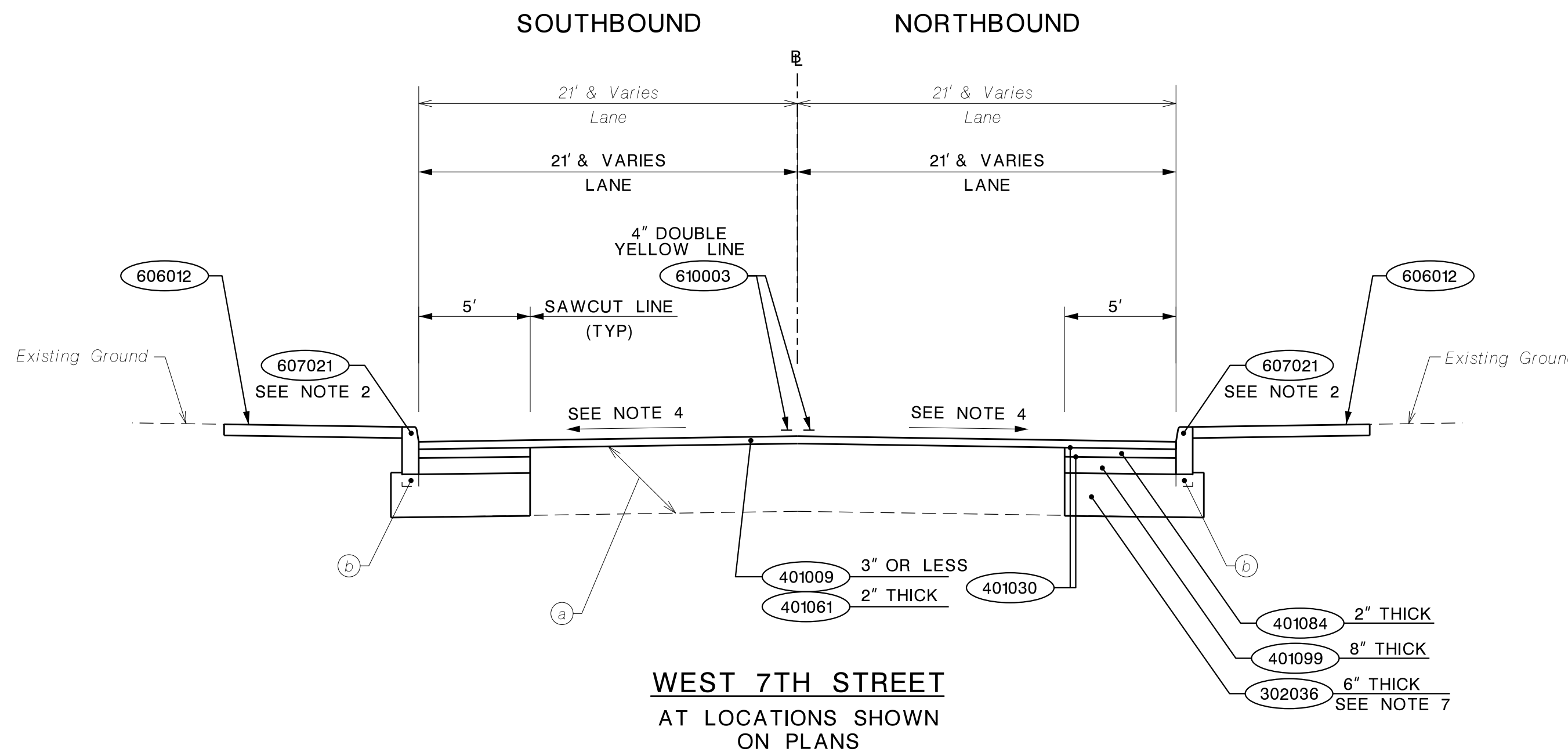
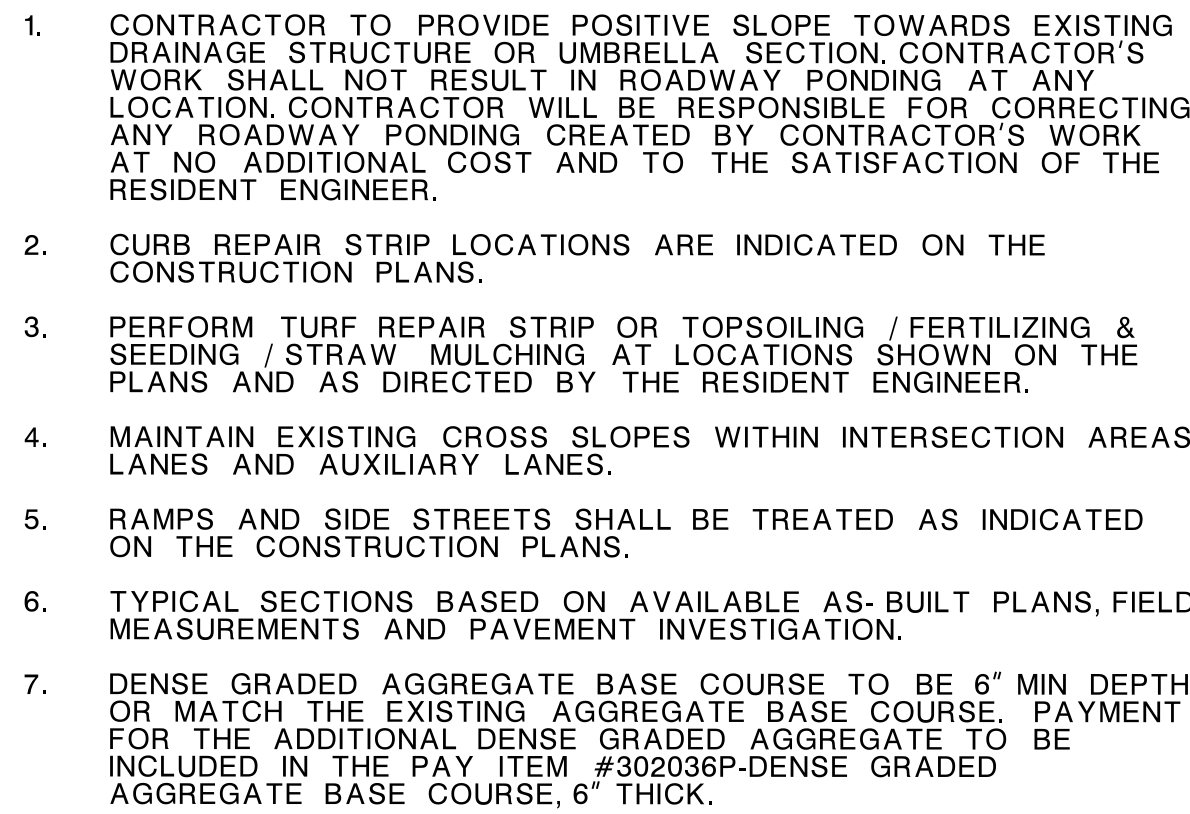
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MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700


BRAD J. MILLER
NEW JERSEY P.E. LICENSE NO. 24GE04927300

NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019
AND CURRENT SUPPLEMENTARY SPECIFICATIONS THERETO TO GOVERN

SEQUENCE NO.	ITEM NO.	DESCRIPTION	UNIT	CONTRACT QUANTITY	PLAN SHEET TOTALS	IF AND WHERE DIRECTED	AS-BUILT QUANTITY	COUNTY QUANTITY	DISTRIBUTION: PLAN SHEET QUANTITY																				STATE	FEDERAL PROJECT NO.
																													NJ	HSIP-D00S(627)
1	151006M	PERFORMANCE BOND AND PAYMENT BOND	DOLL	DOLL																										
2	152004P	OWNER'S AND CONTRACTOR'S PROTECTIVE LIABILITY INSURANCE	DOLL	DOLL																										
3	152015P	POLLUTION LIABILITY INSURANCE	DOLL	DOLL																										
4	153003P	PROGRESS SCHEDULE	LS	LUMP SUM																										
5	153005M	PROGRESS SCHEDULE UPDATE	U	5		5																								
6	154003P	MOBILIZATION	LS	LUMP SUM																										
7	157004M	CONSTRUCTION LAYOUT	DOLL	DOLL																										
8	158012M	HEAVY DUTY SILT FENCE, BLACK	LF	478	478				SE-3	110	SE-4	264				SE-6	104													
9	158030M	INLET FILTER TYPE 2, 2' X 4'	U	22	22				SE-3	7	SE-4	4	SE-5	4		SE-6	5	SE-7	2											
10	158063P	CONCRETE WASHOUT SYSTEM	LS	LUMP SUM																										
11	158069M	OIL-WATER SEPARATOR	U	1		1																								
12	158072M	OIL ONLY EMERGENCY SPILL KIT, TYPE 1	U	1		1																								
13	158084M	EROSION CONTROL SEDIMENT REMOVAL	CY	20		20																								
14	159003M	BREAKAWAY BARRICADE	U	104		104																								
15	159006M	DRUM	U	124		124																								
16	159009M	TRAFFIC CONE	U	124		124																								
17	159012M	CONSTRUCTION SIGNS	SF	600		600																								
18	159027M	FLASHING ARROW BOARD, 4' X 8'	U	2		2																								
19	159030M	PORTABLE VARIABLE MESSAGE SIGN	U	2		2																								
20	159108M	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION	U	2		2																								
21	159126M	TEMPORARY TRAFFIC STRIPES, 4"	LF	1000		1000																								
22	159138M	HMA PATCH	T	20		20																								
23	160004M	FUEL PRICE ADJUSTMENT	DOLL	DOLL																										
24	160007M	ASPHALT PRICE ADJUSTMENT	DOLL	DOLL																										
25	161003P	FINAL CLEANUP	LS	LUMP SUM																										
26	201003P	CLEARING SITE	LS	LUMP SUM																										
27	202006M	EXCAVATION, TEST PIT	CY	10		10																								
28	202009P	EXCAVATION, UNCLASSIFIED	CY	98	98				C-2	21	C-3	18	C-4	22	C-5	17	C-6	20												
29	202021P	REMOVAL OF PAVEMENT	SY	785	785				C-2	169	C-3	142	C-4	174	C-5	136	C-6	164												
30	302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	SY	785	785				C-2	169	C-3	142	C-4	174	C-5	136	C-6	164												
31	401009P	HMA MILLING, 3" OR LESS	SY	6914	6914				C-2	839	C-3	2239	C-4	2120	C-5	869	C-6	847												
32	401027M	POLYMERIZED JOINT ADHESIVE	LF	5850		5850																								
33	401030M	TACK COAT	GAL	310		310																								
34	401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	T	1157	1157				C-2	362	C-3	142	C-4	346	C-5	153	C-6	154												
35	401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	T	96	96				C-2	21	C-3	17	C-4	21	C-5	17	C-6	20												
36	401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	T	358	358				C-2	77	C-3	64	C-4	80	C-5	62	C-6	75												
37	602051M	INLET, TYPE B-2 MODIFIED	U	1	1				C-4	1																				
38	602105M	SET INLET TYPE B, CASTING	U	21	21				C-2	7	C-3	4	C-4	3	C-5	5	C-6	2												
39	606012P	CONCRETE SIDEWALK, 4" THICK	SY	915	915				C-2	152	C-3	212	C-4	161	C-5	203	C-6	179	E-1	2	E-3	2	E-5	2	E-7					
40	606084P	DETECTABLE WARNING SURFACE	SY	40	40				C-2	8	C-3	8	C-4	8	C-5	8	C-6	8												
41	607021P	9" X 18" CONCRETE VERTICAL CURB	LF	1348	1348				C-2	287	C-3	263	C-4	282	C-5	246	C-6	270												
42	610003M	TRAFFIC STRIPES, 4"	LF	4700		4700																								
43	610008M	TRAFFIC MARKINGS, SYMBOLS	SF	250		250																								
44	610014M	TRAFFIC MARKING LINES, 8"	LF	2490		249																								



Existing Material	
Symbol	Description
a	Asphalt Surface Course, Unknown Thickness
b	Concrete Vertical Curb



CITY OF PLAINFIELD		LEGEND		COUNTY OF UNION		STATE NJ	FEDERAL PROJECT NO. HSIP-D00S(627)					
LINEAR FEATURES			TOPOGRAPHICAL FEATURES			TOPOGRAPHICAL FEATURES		MISCELLANEOUS FEATURES				
<div>Existing</div> <div>PROPOSED</div> <div>Water Main (Size)</div> <div>Gas Main (Size)</div> <div>Telephone Conduit</div> <div>Electric Conduit (Highway or Utility)</div> <div>Cable TV</div> <div>Fiber Optic</div> <div>Sanitary Sewers or Storm Drains</div> <div>Pavements (Concrete or Bituminous)</div> <div>Shoulders</div> <div>Slopes (Cut & Fill)</div> <div>Base Line</div> <div>Twp., City, County Lines</div> <div>Right of Way Lines (Access Permitted)</div> <div>Right of Way Lines (No Access)</div> <div>Easements</div> <div>Property Line</div> <div>Fence (Size & Type)</div> <div>Reset Fence</div> <div>Beam Guide Rail</div> <div>Reset Beam Guide Rail</div> <div>Noise Walls</div> <div>Wetland Limit Line</div> <div>Silt Fence</div> <div>Ditches</div> <div>Railroad Tracks</div> <div>Tree Line</div> <div>UNDERDRAIN TYPE</div> <div>Under Drain</div>			<div>Existing</div> <div>PROPOSED</div> <div>Inlets (Label Type)</div> <div>Inlets Type S</div> <div>Inlets (Type ES)</div> <div>Inlet Filters</div> <div>Manufactured Treatment Device</div> <div>Manholes (Label Type or Utility)</div> <div>Reset (Inlets or Manholes)</div> <div>Reconstructed (Inlets or Manholes)</div> <div>New Castings (Inlets or Manholes)</div> <div>Cast Iron Extension (Frame or Ring) (Inlets or Manholes)</div> <div>New Manhole Casting Square Frame, Circular Cover</div> <div>R.C. End Section or C.M. Headwall</div> <div>Headwalls</div> <div>Headwalls & Aprons</div> <div>Water Gate Valves</div> <div>Reset Water Gate Valves</div> <div>Gas Gate Valves</div> <div>Reset Gas Gate Valves</div> <div>Hydrants</div> <div>Reset Hydrants</div> <div>Utility Pole (Type & Number)</div> <div>Temporary Utility Pole</div> <div>Traffic Signal Standard</div> <div>Traffic Signal Head</div> <div>Image Detector</div> <div>Pedestrian Push Button</div> <div>Junction Box</div> <div>Fiber Optic Junction Box</div> <div>Junction Box Foundation</div> <div>Lighting Standard Assembly</div> <div>Signs</div> <div>Vertical Panels</div>			<div>Existing</div> <div>PROPOSED</div> <div>FRT/TRT</div> <div>GRA</div> <div>Guide Rail End Terminals (Flared/Tangent)</div> <div>Beam Guide Rail Anchorages</div> <div>Crash Cushion (30 MPH)</div> <div>Monuments</div> <div>ROW Monument (ROW Control Points)</div> <div>Test Pit</div> <div>Borings (Boring Number)</div> <div>Deciduous Trees (Size, Kind)</div> <div>Evergreen</div> <div>Bush</div> <div>Hedges</div> <div>Swamp</div>		<div>GENERAL NOTES</div> <div>1. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT "NJ ONE CALL" PRIOR TO DIGGING AND NOTIFY THE ENGINEER OF ANY CONFLICTS BETWEEN THE EXISTING AND PROPOSED FACILITIES.</div> <div>2. INFORMATION ON THESE PLANS ARE STATED IN NJ STATE PLANE GROUND COORDINATES.</div> <div>3. HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATE SYSTEM 1983 (NAD83)</div> <div>4. VERTICAL DATUM: NORTH AMERICAN DATUM OF 1988 (NAVD 88)</div> <div>5. THE PROPERTY AND RIGHT OF WAY LINES AS DEPICTED HEREON ARE APPROXIMATE AND A GRAPHIC REPRESENTATION ONLY BASED ON TAX MAP AND DEED PLOTTING. NO PROPERTY OR BOUNDARY ANALYSIS WAS PERFORMED.</div> <div>6. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COORDINATE ANY OVERHEAD UTILITY CONFLICTS WITH PROPOSED SIGNAL EQUIPMENT WITH THE UTILITY COMPANIES AT THE FOLLOWING LOCATIONS: A. EAST FRONT STREET AND LELAND AVENUE (SOUTHEAST AND NORTHEAST CORNERS) B. LELAND AVENUE AND SEVENTH STREET (SOUTHEAST CORNER) C. WOODLAND AVENUE AND SEVENTH STREET (SOUTHEAST CORNER) D. BERCKMAN STREET AND SEVENTH STREET (SOUTHEAST AND NORTHEAST CORNERS)</div>		<div>DOUBLE REFERENCE CODES</div> <div>E-DOQ - ESTIMATE-DISTRIBUTION OF QUANTITIES TS - TYPICAL SECTIONS C - CONSTRUCTION PLANS T - TIES DTL - CONSTRUCTION DETAILS TC - TRAFFIC CONTROL AND STAGING PLANS E - ELECTRICAL PLANS TSP - TRAFFIC SIGNAL, SIGNING AND STRIPING PLANS ED - ELECTRICAL DETAILS L - LAYOUT PLANS ADA - CURB RAMP LAYOUT DETAILS PSI - PLAN SHEET INDEX</div> <div>RELIEF SLAB AND SLEEPER SLAB</div> <div>North Arrow to be Used On Standard Construction Sheets Where Bearings Refer To N.J. Plane Coordinate System</div>		
ABBREVIATIONS USED IN THIS CONTRACT			ABBREVIATIONS USED IN THIS CONTRACT			ENVIRONMENTAL COMMITMENTS			COUNTY OF UNION DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES CONSTRUCTION PLANS			
AH., BK. AVE., AV. AVG. B., B.L. BET B.M. B.T. BIT., BITUM. BLDG. C., C.L. C.I.P. C.M.P. CONC. CRSE. CR CULV. D, DIA. D.C. DE DEP., DP DH DWY E.B., W.B., N.B., S.B. EL, ELEV. EXIST. FRT GND GRA GR. HMA HT. H.W. HYD. INTERMED. INV. I.P.			ID J.B. LT., RT. LN. L.O.P. L.O.M. M.B. M.P. MAX. MIN. NO. N.T.S. OHSS O.T. O.S. PAV'T. PBA PC, P.C. PCC, P.C.C. PERF. P.G.L. P.L. POC, P.O.C. POL, P.O.L. POT, P.O.T. PRC, P.R.C. PROP. PSH PSS PT, P.T. PVC, P.V.C. PVI, P.V.I.			PVT, P.V.T. QCC R RCCP, R.C.C.P. RCP, R.C.P. RMC, R.M.C. RNMC, R.N.M.C. ROW, R.O.W. R.R. RT. SAN. SDWK. S.H.D. SHLD. S., S.L. S.O.D. ST. STY. SURF. T TBA TBR TEL. TEMP. TET THK., TH. TRANS. TSH TYP. U.D. UP, U.P. VAR. W.C.V.C. WM X-SECT			POINT OF VERTICAL TANGENCY, PAVEMENT QUADGUARD CRASH CUSHION RADIUS REINFORCED CONCRETE CULVERT PIPE REINFORCED CONCRETE PIPE RIGID METALLIC CONDUIT RIGID NON-METALLIC CONDUIT RIGHT OF WAY RAILROAD ROUTE SANITARY SIDEWALK STATE HIGHWAY DEPARTMENT SHOULDER SURVEY LINE SUBBASE OUTLET DRAIN STREET STORY SURFACE TANGENT TO BE ABANDONED TO BE REMOVED TELEPHONE TEMPORARY TELESOPING GUIDE RAIL END TERMINALS THICK, THICKNESS TRANSITION TRAFFIC SIGNAL HEAD TYPICAL UNDERDRAIN UTILITY POLE VARIABLE, VARIES WHITE CONCRETE VERTICAL CURB WATER METER CROSS SECTION		I. BEST MANAGEMENT PRACTICES WILL BE UTILIZED TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING ENVIRONMENTAL SENSITIVE AREAS.	
						II. PROPOSED NEW INLETS, RECONSTRUCTED INLETS AND EXISTING INLETS THAT COME INTO CONTACT WITH RESURFACING, REPAVING, REPAIRING (EXCEPT POT HOLE REPAIR), RECONSTRUCTION OR ALTERATIONS MUST BE RETROFITTED TO MEET THE NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM (NJPDES) STORMWATER REQUIREMENT.			C-1 C-6			
						III. USFWS "CONSERVATION MEASURE 2" - FOLLOW PROPER STORAGE AND CONTROLS (INCLUDING INLET PROTECTION) TO PREVENT HERBICIDES, PETROLEUM PRODUCTS, RAW CONCRETE, GROUT, ADHESIVES, FERTILIZER, AND OTHER CONTAMINANTS FROM LEAVING THE PROJECT AREAS AND ENTERING WETLANDS OR WATERWAYS. HAVE APPROPRIATE SPILL RESPONSE PLANS AND EQUIPMENT IN PLACE. NOTIFY THE USFWS IMMEDIATELY IF WETLANDS OR WATERWAYS BECOME CONTAMINATED WITH ANY OF THE AFOREMENTIONED MATERIALS.						
						IV. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.						
						V. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND CONSTRUCTION MATERIALS) ARE PROHIBITED IN ENVIRONMENTALLY SENSITIVE AREAS SUCH AS WETLANDS, FLOODPLAINS, AND PARKLAND. IF THE CONTRACTOR WISHES TO USE THESE AREAS OR ACCESS THESE AREAS FOR ANY REASON, ALL APPROPRIATE PERMIT APPROVALS MUST BE OBTAINED PRIOR TO SUCH USE.						
						VI. IF THERE ARE ANY CHANGES TO THE PROPOSED ACTIVITIES, THEY MUST BE RE-EVALUATED BY THE BUREAU OF ENVIRONMENTAL PROGRAM RESOURCES TO DETERMINE THE NEED FOR ADDITIONAL REGULATORY COMPLIANCE.			INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE MICHAEL BAKER INTERNATIONAL, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA27954700 BRAD J. MILLER NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300			

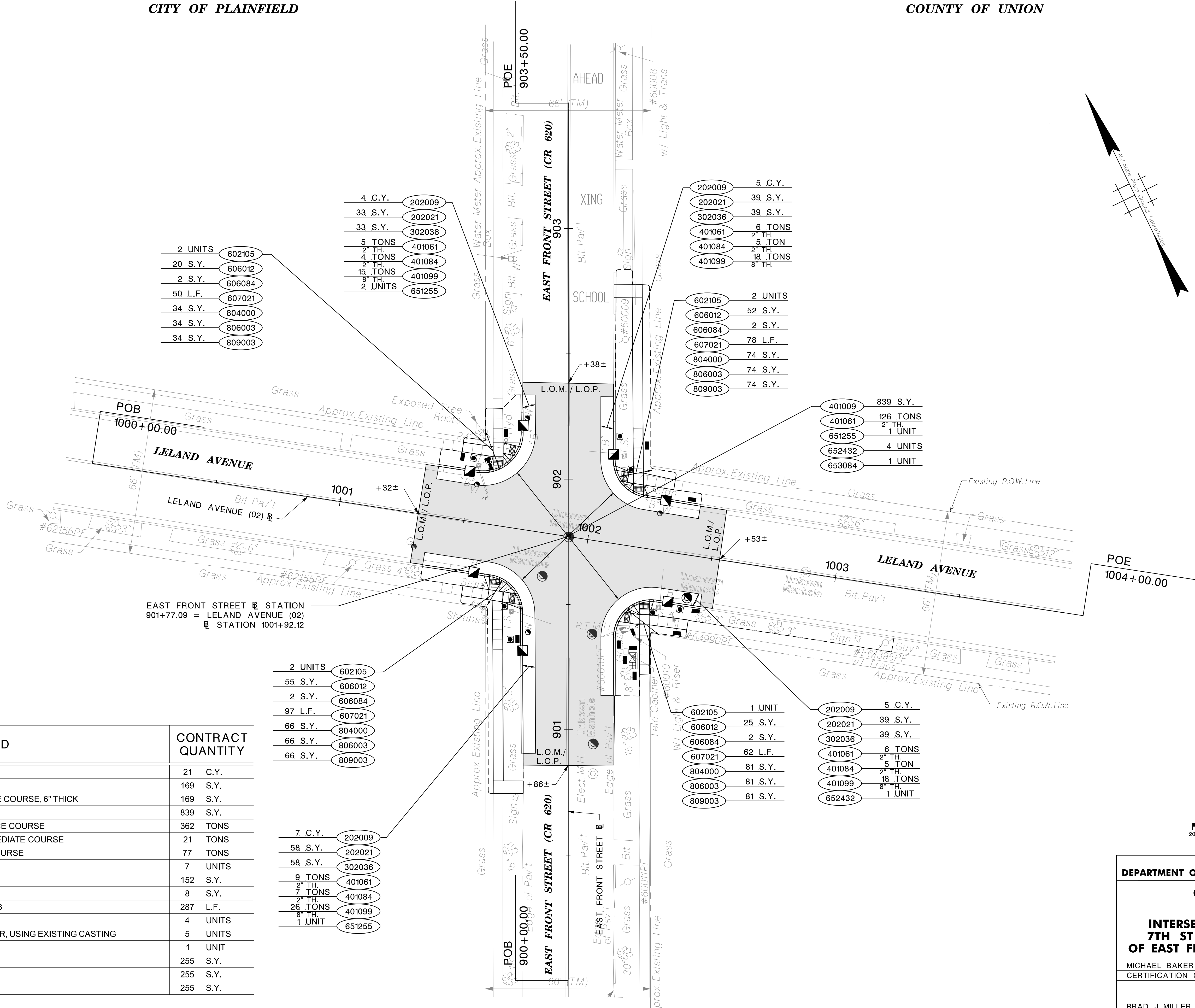
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CITY OF PLAINFIELD

COUNTY OF UNION

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
202009P	EXCAVATION, UNCLASSIFIED	21 C.Y.
202021P	REMOVAL OF PAVEMENT	169 S.Y.
302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	169 S.Y.
401009P	HMA MILLING, 3" OR LESS	839 S.Y.
401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	362 TONS
401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	21 TONS
401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	77 TONS
602105M	SET INLET TYPE B, CASTING	7 UNITS
606012P	CONCRETE SIDEWALK, 4" THICK	152 S.Y.
606084P	DETECTABLE WARNING SURFACE	8 S.Y.
607021P	9" X 18" CONCRETE VERTICAL CURB	287 L.F.
651255M	RESET WATER VALVE BOX	4 UNITS
652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	5 UNITS
653084M	RESET GAS VALVE BOX	1 UNIT
804000P	TOPSOIL SPREADING 4" THICK	255 S.Y.
806003P	FERTILIZING AND SEEDING, TYPE A	255 S.Y.
809003M	STRAW MULCHING	255 S.Y.



COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
CONSTRUCTION PLANS
**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA279547300

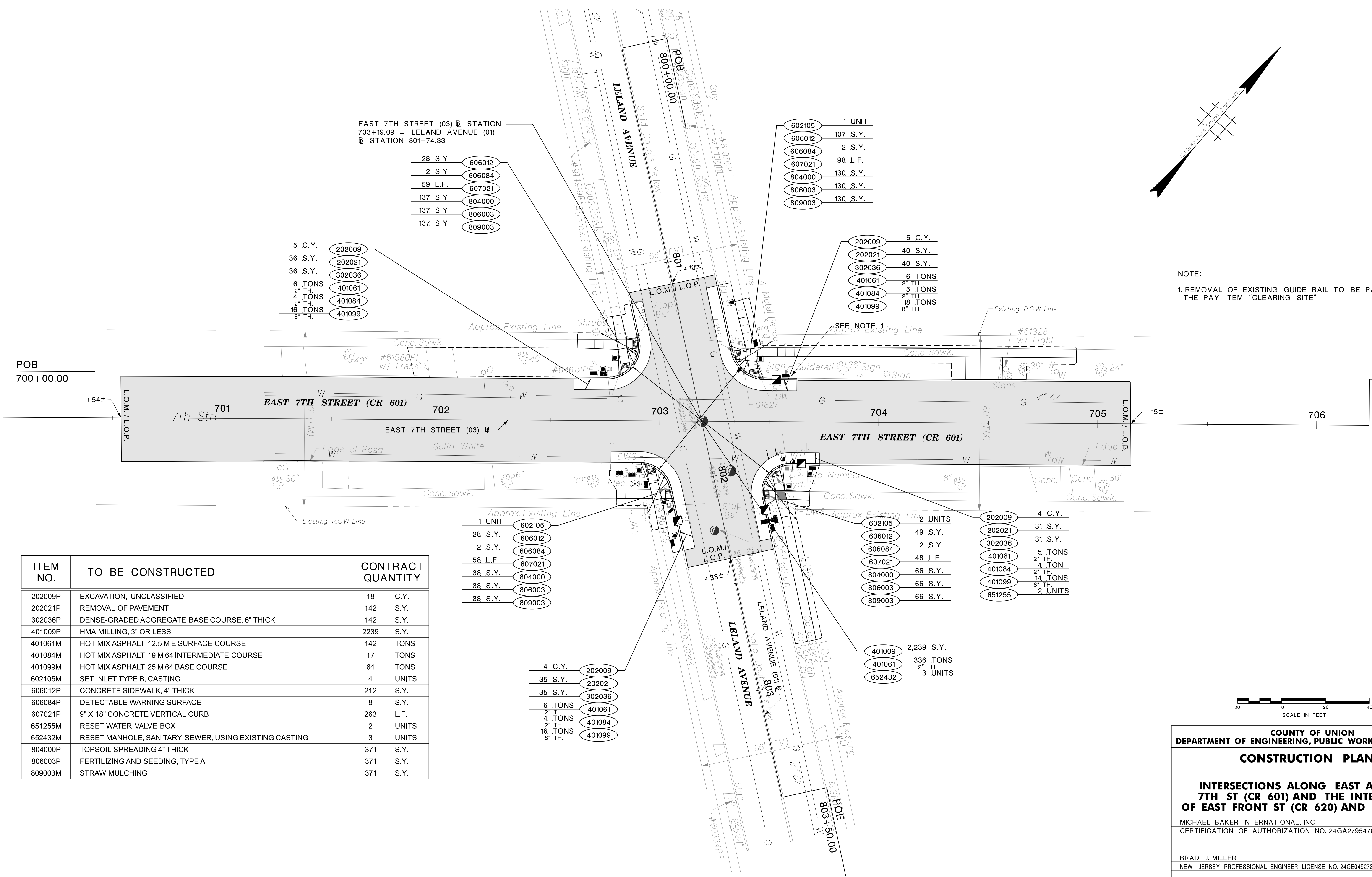
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



NOTE:
1. REMOVAL OF EXISTING GUIDE RAIL TO BE PAID UNDER THE PAY ITEM "CLEARING SITE"

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
202009P	EXCAVATION, UNCLASSIFIED	18 C.Y.
202021P	REMOVAL OF PAVEMENT	142 S.Y.
302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	142 S.Y.
401009P	HMA MILLING, 3" OR LESS	2239 S.Y.
401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	142 TONS
401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	17 TONS
401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	64 TONS
602105M	SET INLET TYPE B, CASTING	4 UNITS
606012P	CONCRETE SIDEWALK, 4" THICK	212 S.Y.
606084P	DETECTABLE WARNING SURFACE	8 S.Y.
607021P	9" X 18" CONCRETE VERTICAL CURB	263 L.F.
651255M	RESET WATER VALVE BOX	2 UNITS
652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	3 UNITS
804000P	TOPSOIL SPREADING 4" THICK	371 S.Y.
806003P	FERTILIZING AND SEEDING, TYPE A	371 S.Y.
809003M	STRAW MULCHING	371 S.Y.



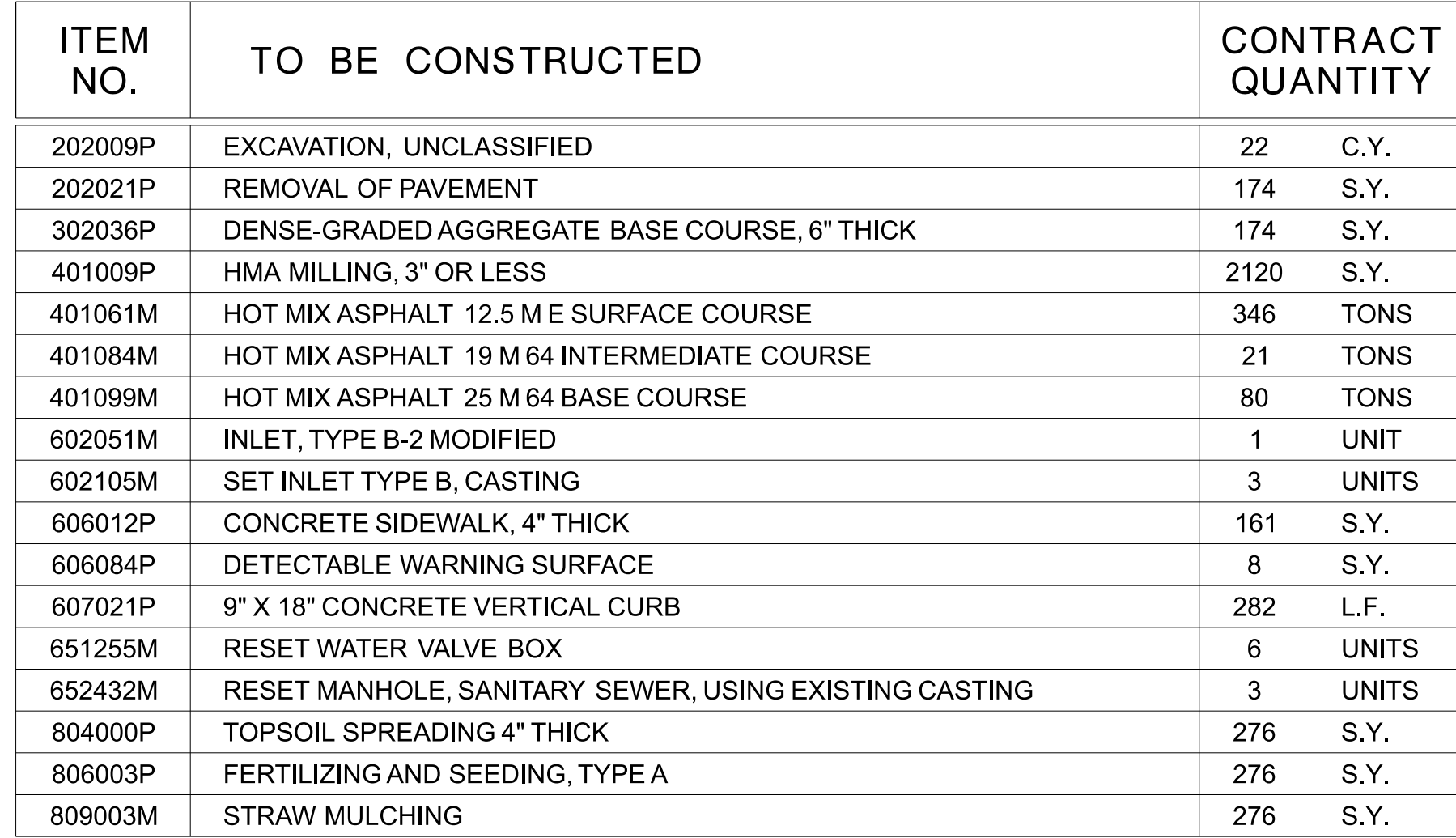
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION PLANS

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
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MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
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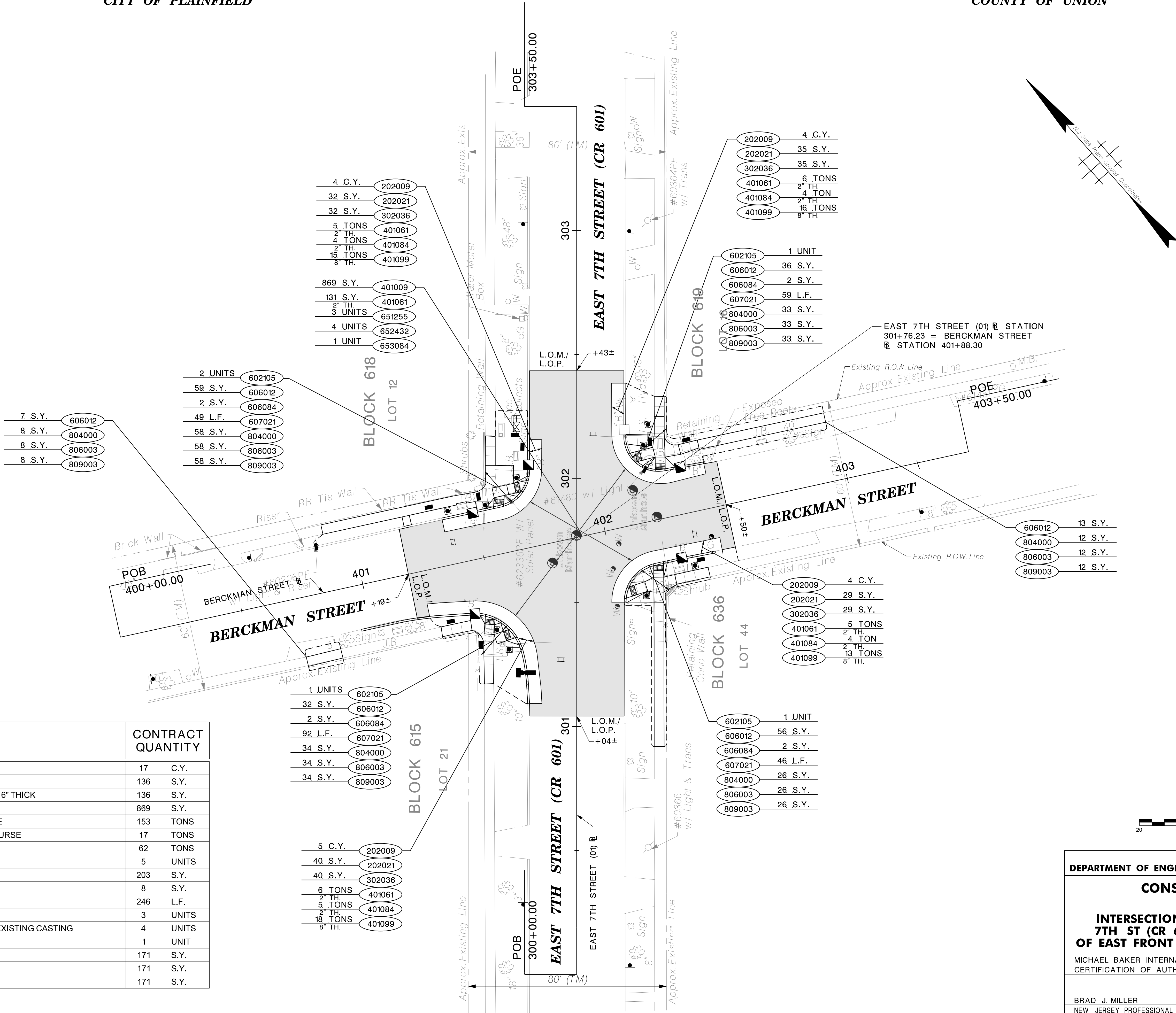


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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
202009P	EXCAVATION, UNCLASSIFIED	17 C.Y.
202021P	REMOVAL OF PAVEMENT	136 S.Y.
302036P	DENSE-GRADED AGGREGATE BASE COURSE, 6" THICK	136 S.Y.
401009P	HMA MILLING, 3" OR LESS	869 S.Y.
401061M	HOT MIX ASPHALT 12.5 M E SURFACE COURSE	153 TONS
401084M	HOT MIX ASPHALT 19 M 64 INTERMEDIATE COURSE	17 TONS
401099M	HOT MIX ASPHALT 25 M 64 BASE COURSE	62 TONS
602105M	SET INLET TYPE B, CASTING	5 UNITS
606012P	CONCRETE SIDEWALK, 4" THICK	203 S.Y.
606084P	DETECTABLE WARNING SURFACE	8 S.Y.
607021P	9" X 18" CONCRETE VERTICAL CURB	246 L.F.
651255M	RESET WATER VALVE BOX	3 UNITS
652432M	RESET MANHOLE, SANITARY SEWER, USING EXISTING CASTING	4 UNITS
653084M	RESET GAS VALVE BOX	1 UNIT
804000P	TOPSOIL SPREADING 4" THICK	171 S.Y.
806003P	FERTILIZING AND SEEDING, TYPE A	171 S.Y.
809003M	STRAW MULCHING	171 S.Y.



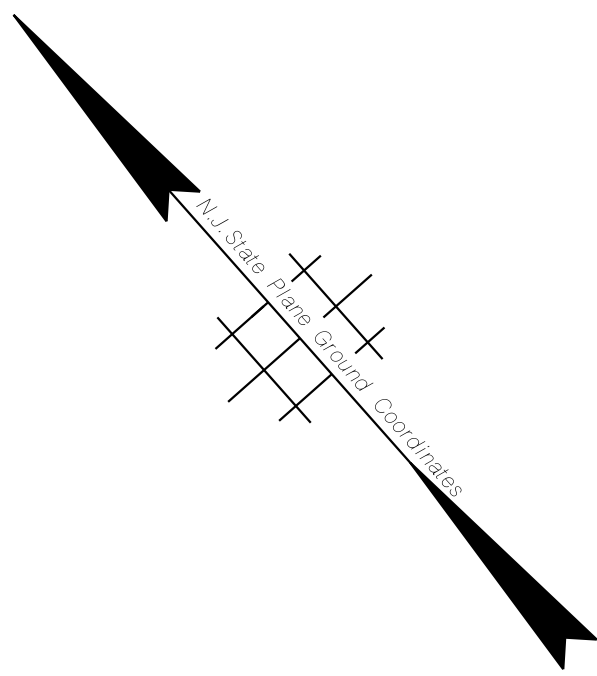
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION PLANS

INTERSECTIONS ALONG EAST AND WEST
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MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

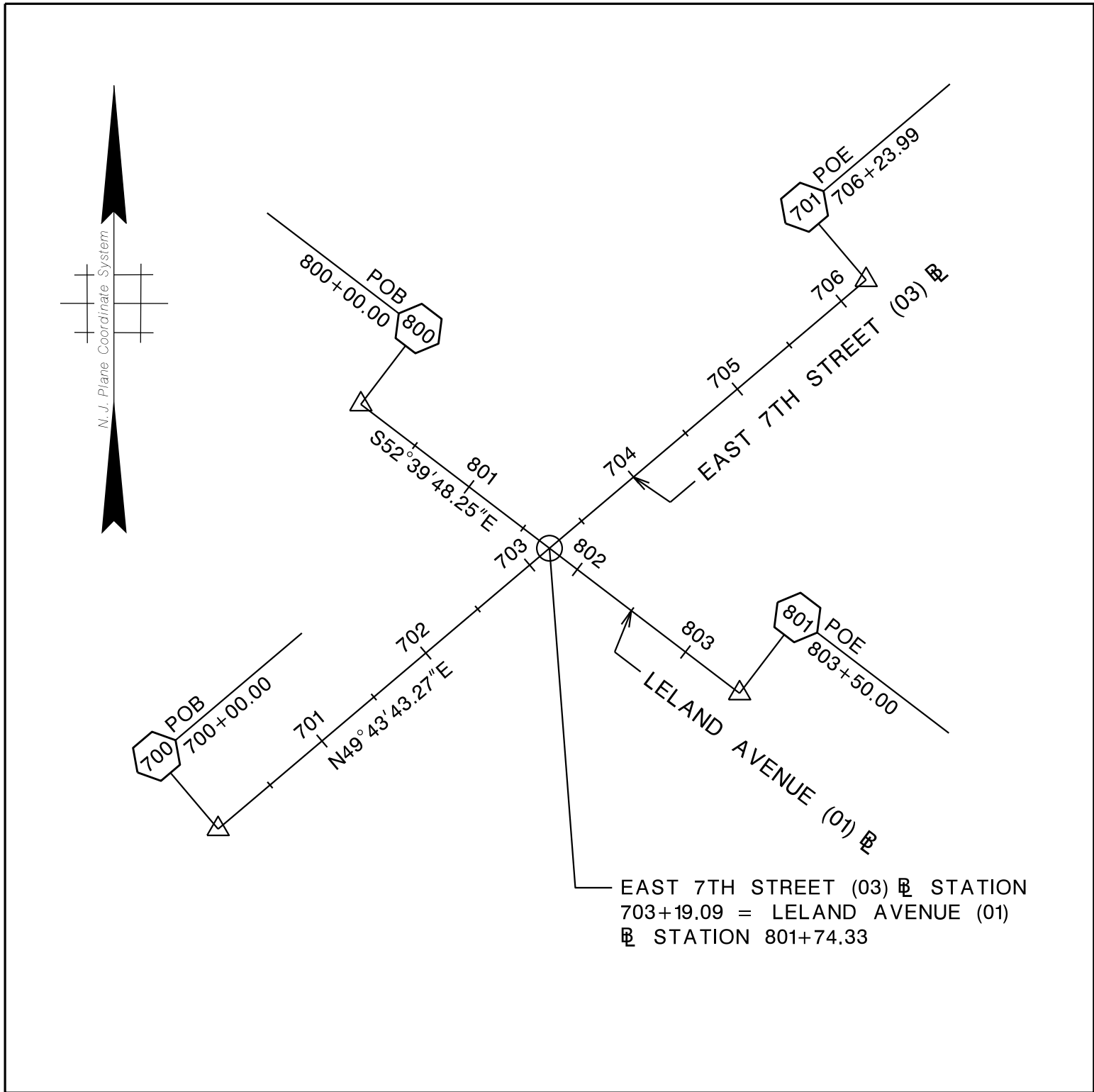
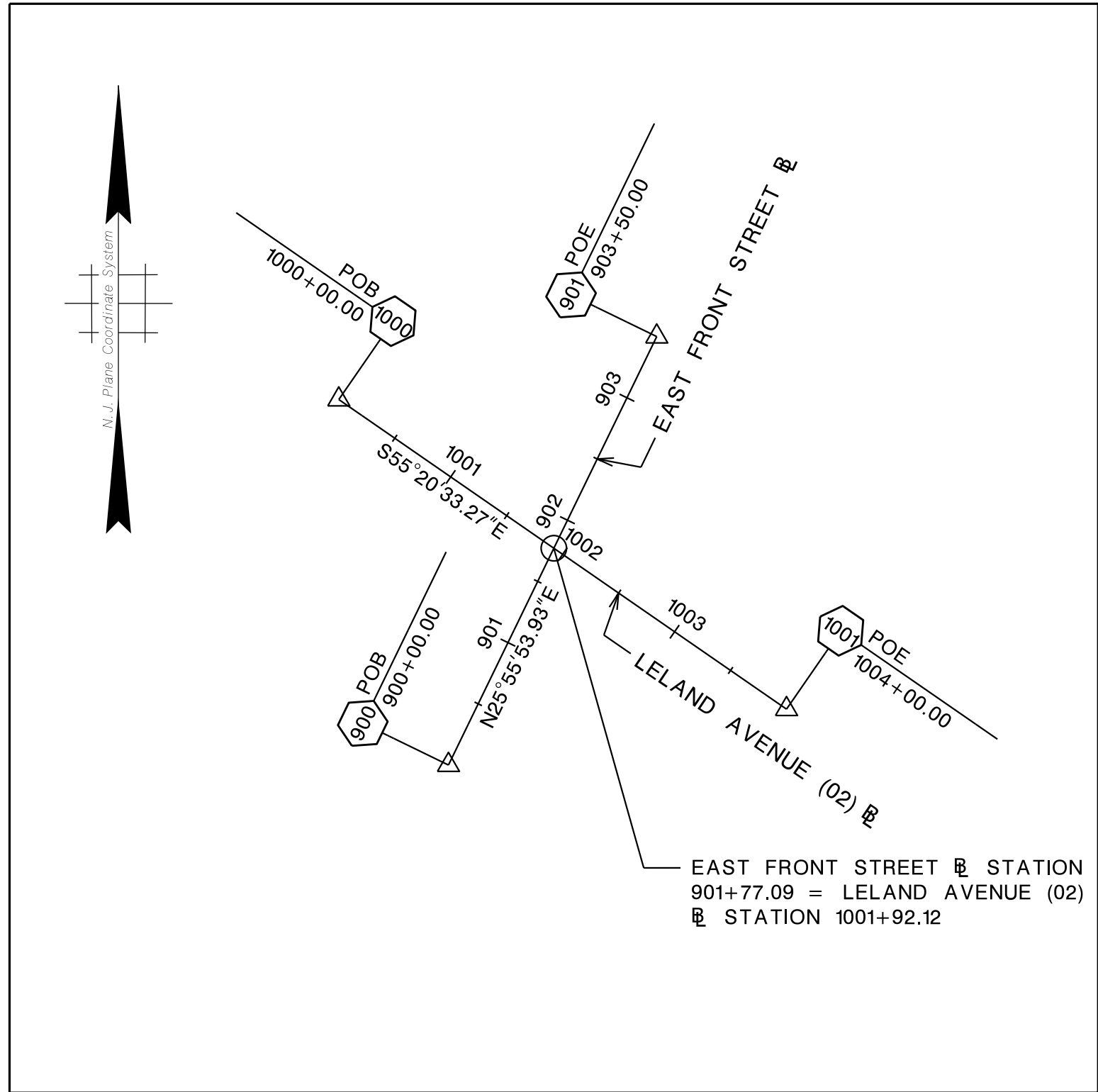


CONSTRUCTION PLANS

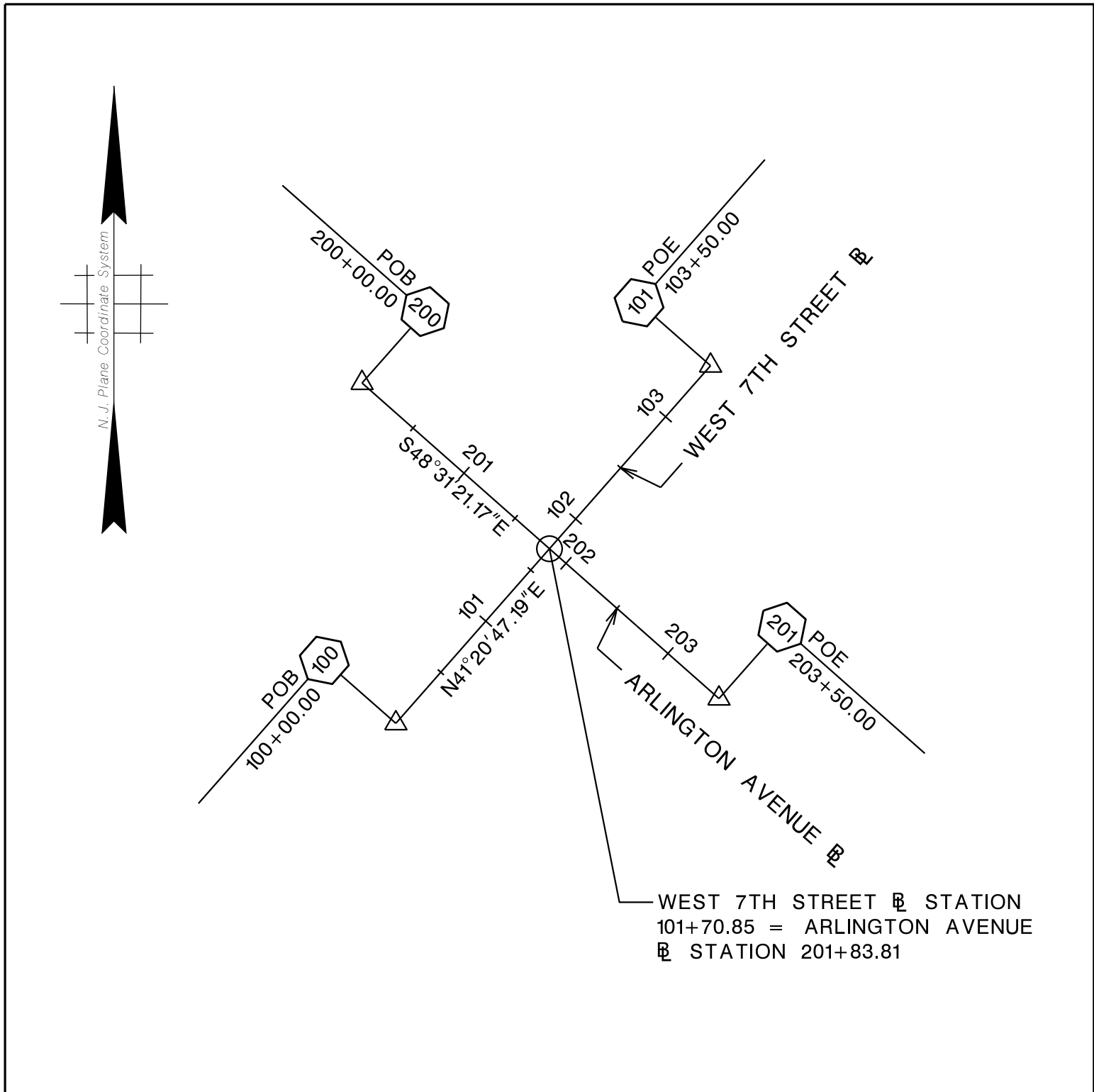
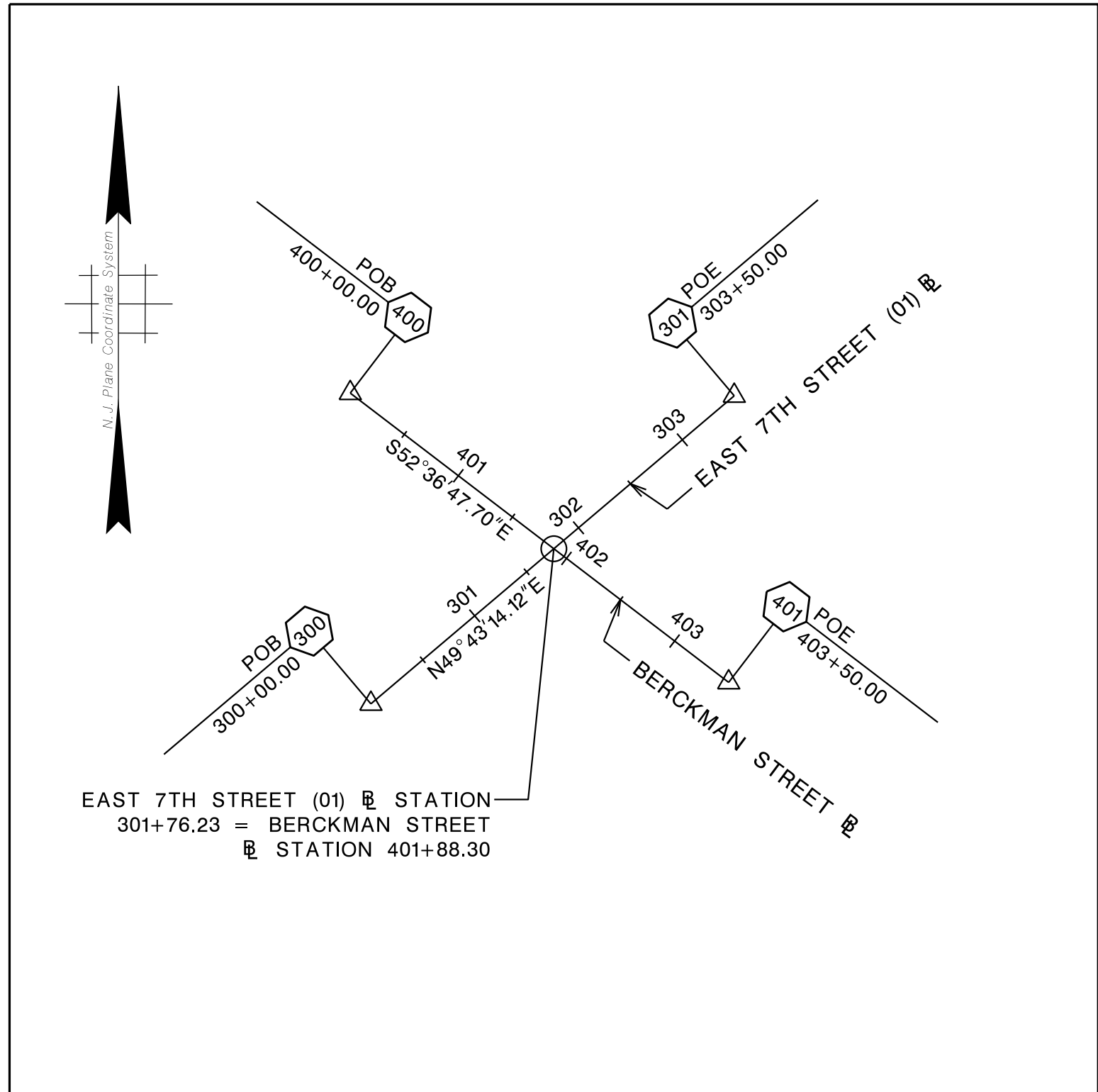
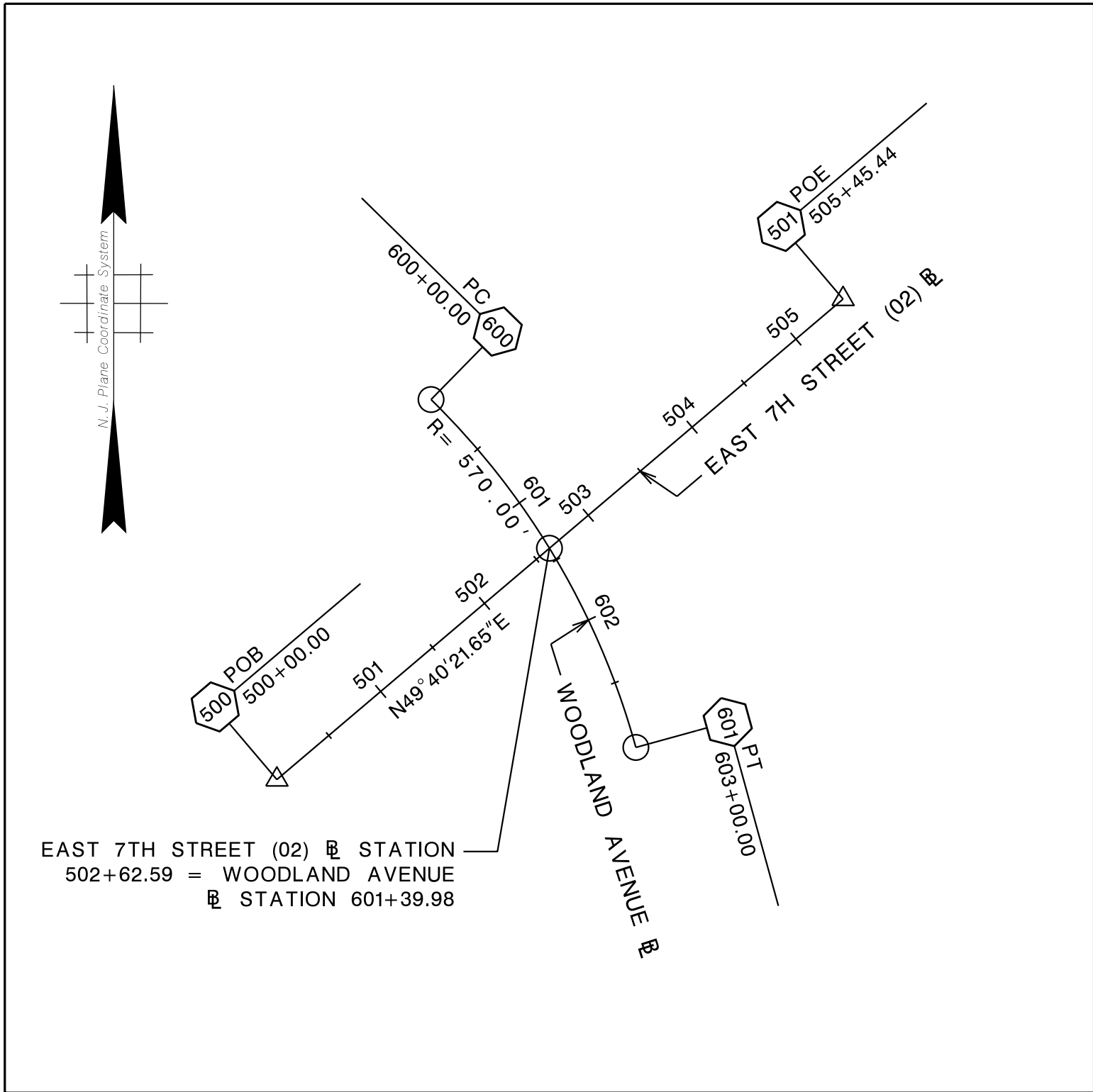
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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

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CITY OF PLAINFIELD



COUNTY OF UNION



ALIGNMENT DATA						
NO.	STATION	OFFSET	BASELINE	NORTH COORD.	EAST COORD.	REMARKS
100	100+00.00	0'	WEST 7TH STREET	648441.6667	514647.8040	POB
101	103+50.00	0'	WEST 7TH STREET	648704.4218	514879.0177	POE
200	200+00.00	0'	ARLINGTON AVENUE	648691.6759	514622.9556	POB
201	203+50.00	0'	ARLINGTON AVENUE	648459.8620	514885.1814	POE
300	300+00.00	0'	EAST 7TH STREET (01)	651939.5932	517566.8161	POB
301	303+50.00	0'	EAST 7TH STREET (01)	652165.8737	517833.8313	POE
400	400+00.00	0'	BERCKMAN STREET	652167.8610	517551.6477	POB
401	403+50.00	0'	BERCKMAN STREET	651955.3437	517829.7420	POE
500	500+00.00	0'	EAST 7TH STREET (02)	653042.6000	518869.3147	POB
501	505+45.44	0'	EAST 7TH STREET (02)	653395.5862	519285.1396	POE
600	600+00.00	0'	WOODLAND AVENUE	653321.7770	518982.5328	PC
601	603+00.00	0'	WOODLAND AVENUE	653066.2113	519132.9579	PT
700	700+00.00	0'	EAST 7TH STREET (03)	653912.6508	519896.9351	POB
701	706+23.99	0'	EAST 7TH STREET (03)	654315.9999	520373.0311	POE
800	800+00.00	0'	LELAND AVENUE (01)	654224.6502	520001.7913	POB
801	803+50.00	0'	LELAND AVENUE (01)	654012.3765	520280.0715	POE
900	900+00.00	0'	EAST FRONT STREET	656322.7417	516690.2496	POB
901	903+50.00	0'	EAST FRONT STREET	656637.5024	516843.3041	POE
1000	1000+00.00	0'	LELAND AVENUE (02)	656591.2544	516609.6573	POB
1001	1004+00.00	0'	LELAND AVENUE (02)	656363.7871	516938.6840	POE

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TIES

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

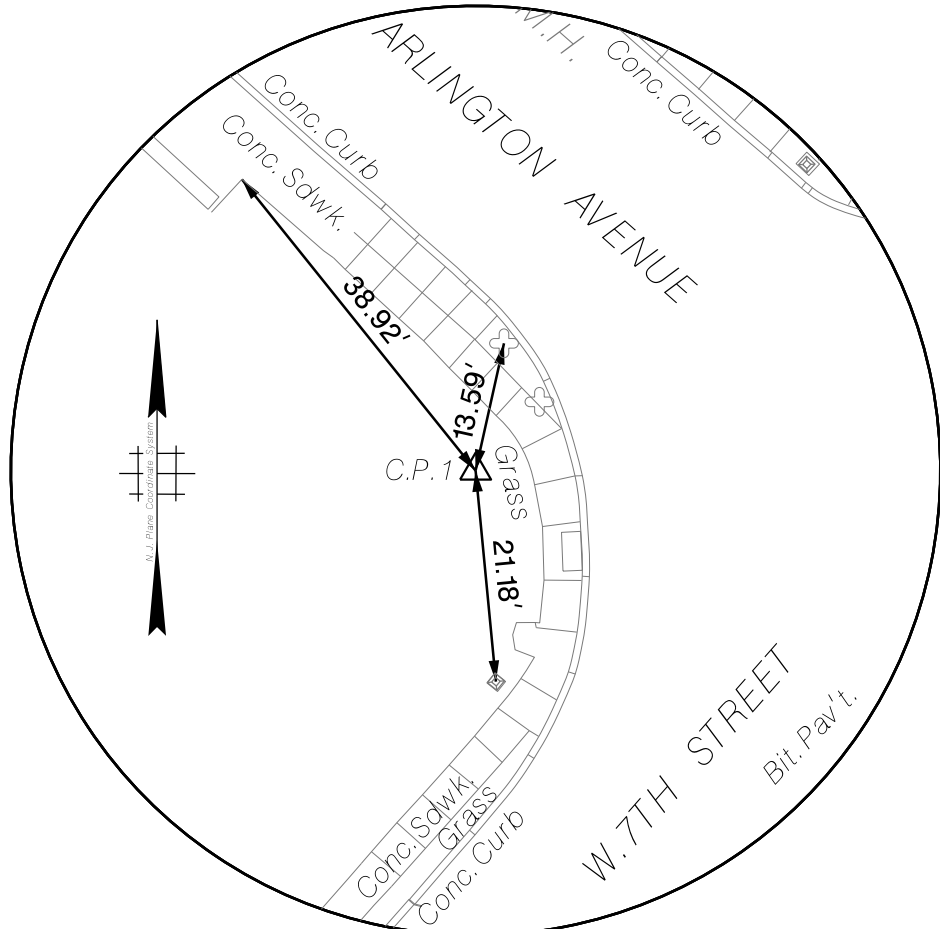
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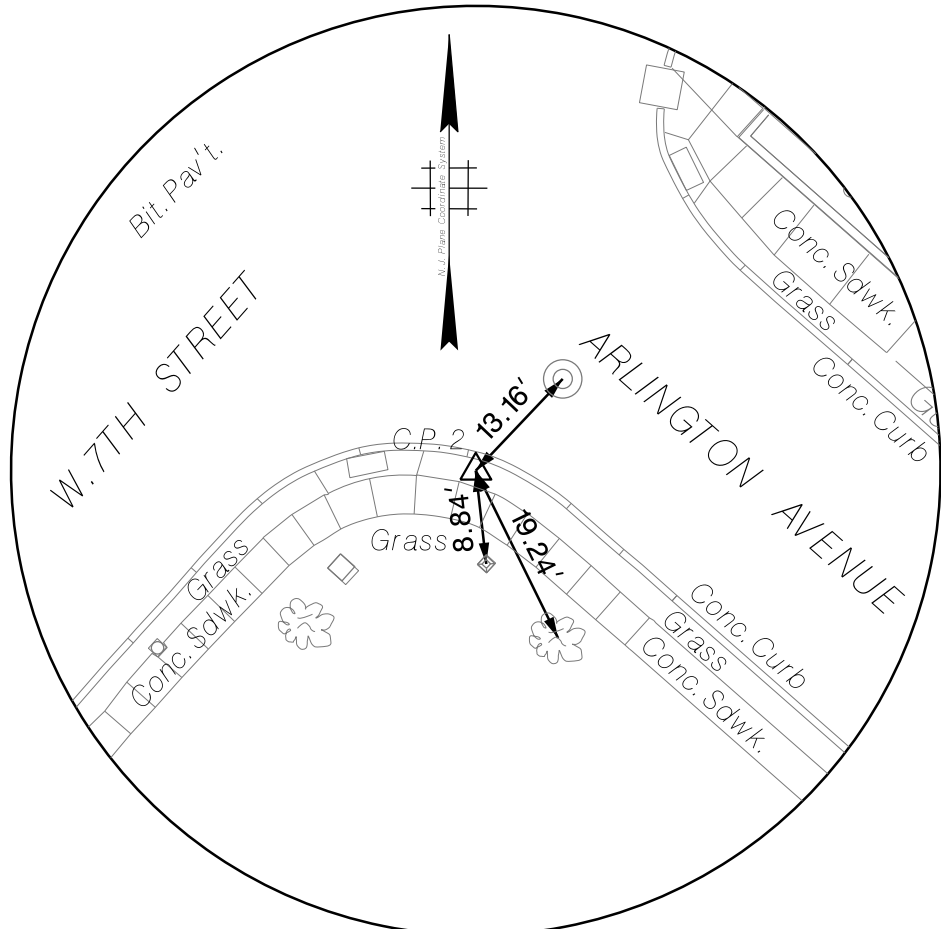
CITY OF PLAINFIELD

COUNTY OF UNION

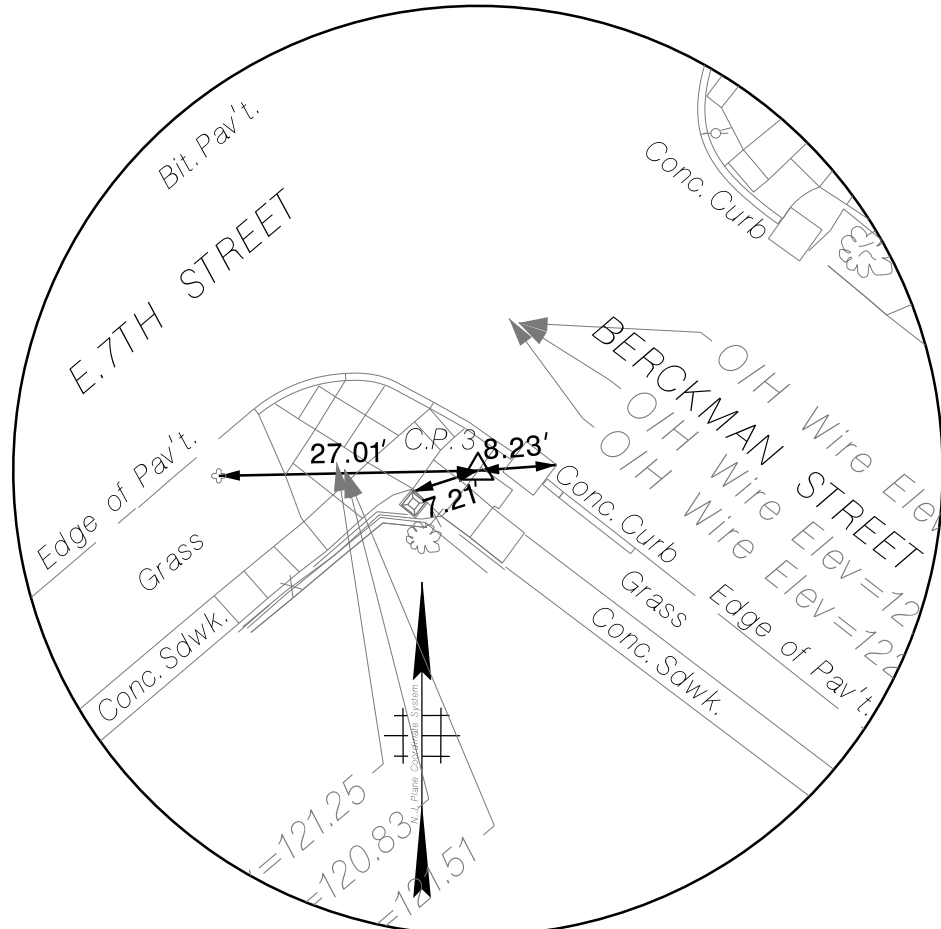
STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



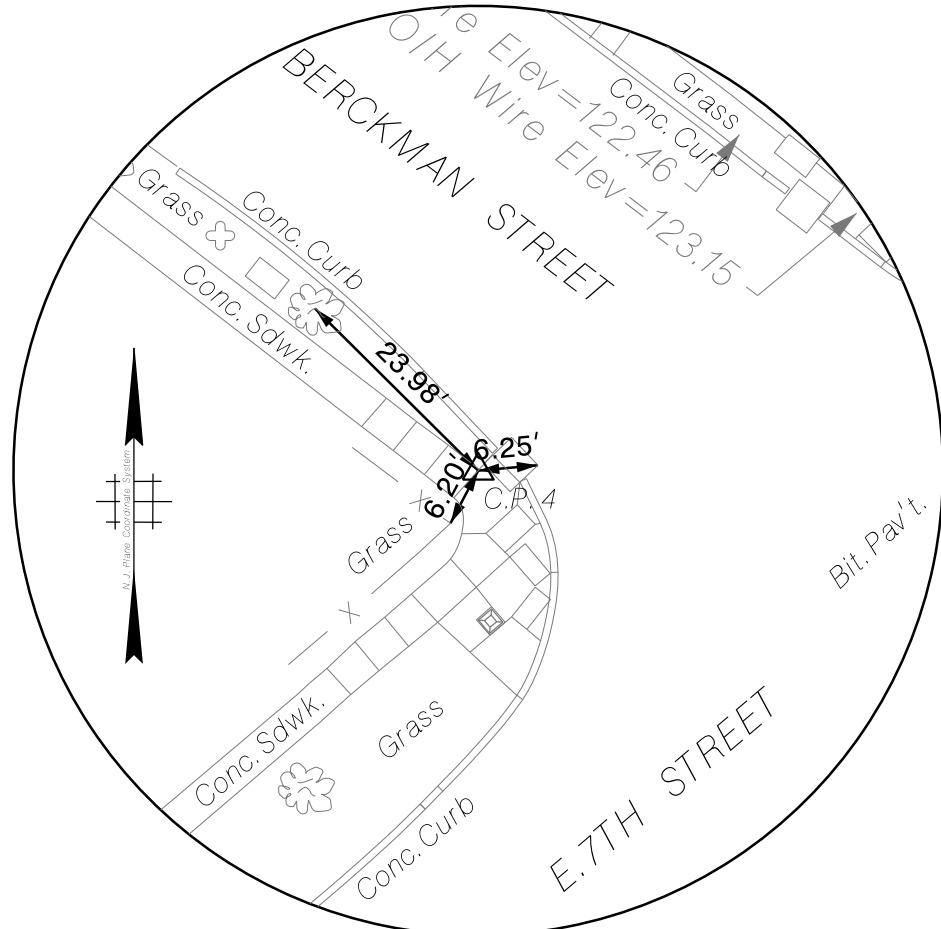
CONTROL POINT 1
CAPPED IRON PIN
STA. 201+87.61, 29.61' R
N=648578.3492
E=514706.4385
ELEV.=97.735
N.T.S.



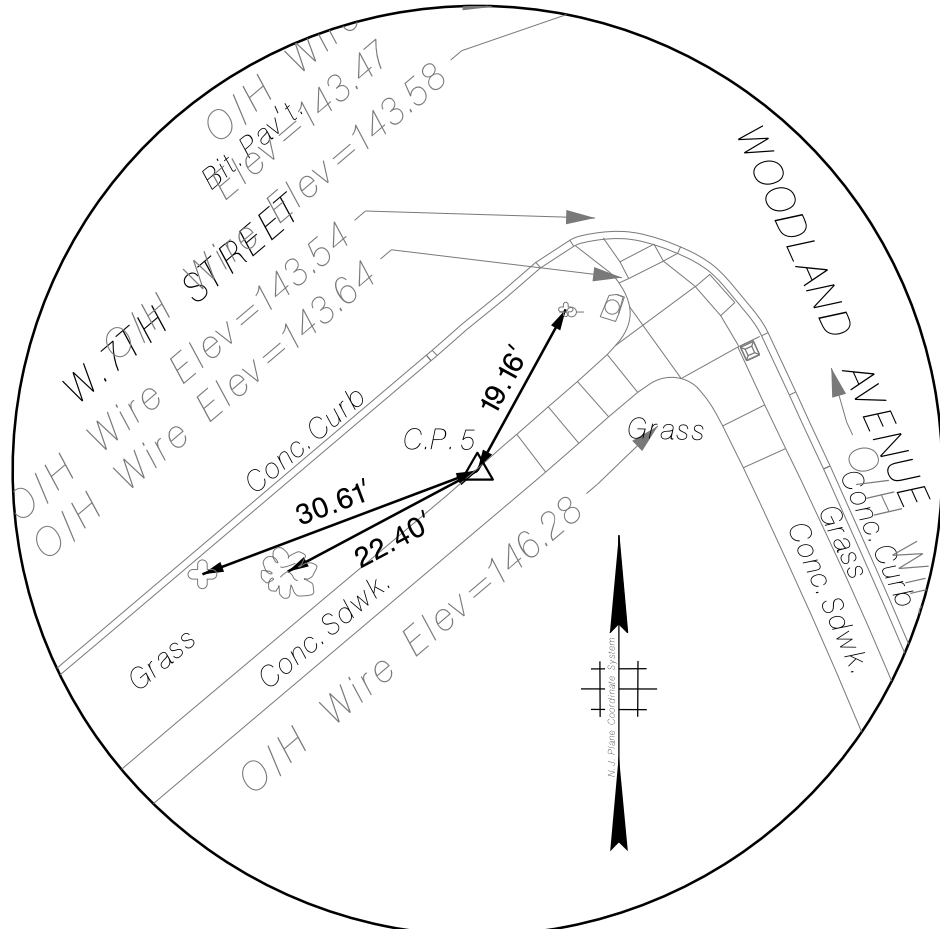
CONTROL POINT 2
CAPPED IRON PIN
STA. 202+70.10', 19.04' R
N=648531.6339
E=514775.2436
ELEV.=97.359
N.T.S.



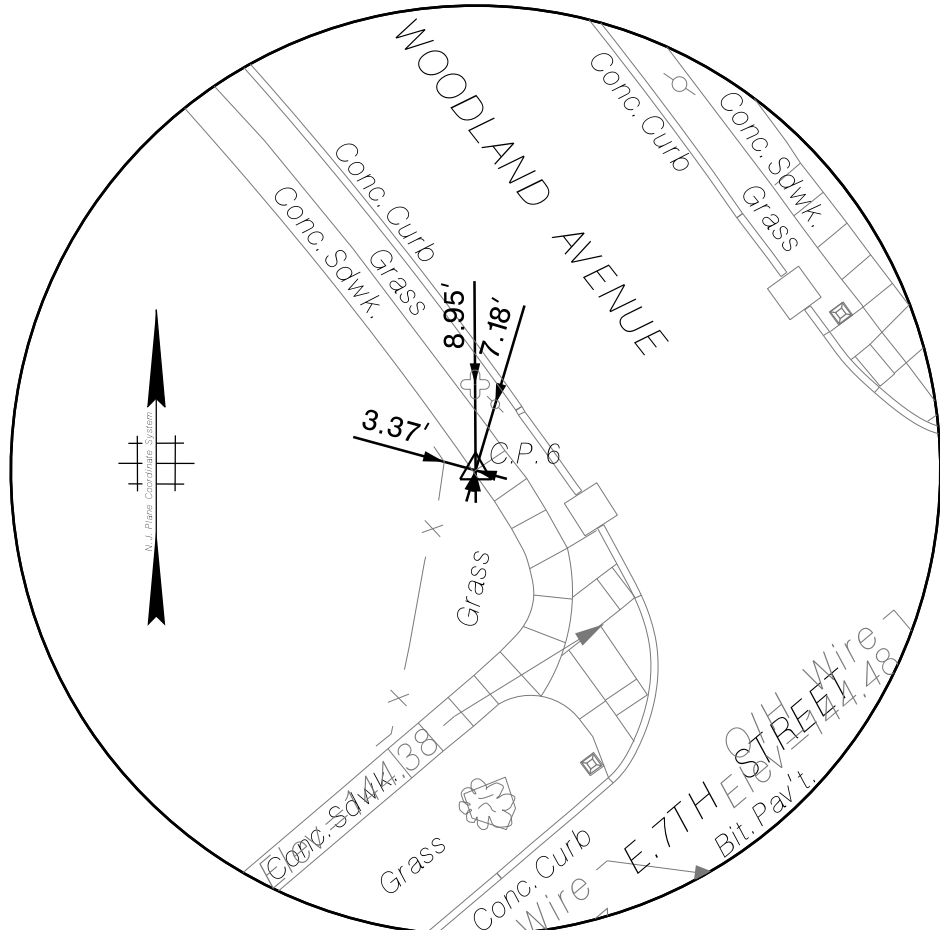
CONTROL POINT 3
MAG NAIL
STA. 403+23.83, 20.83' R
N=652015.3992
E=517716.8416
ELEV.=103.468
N.T.S.



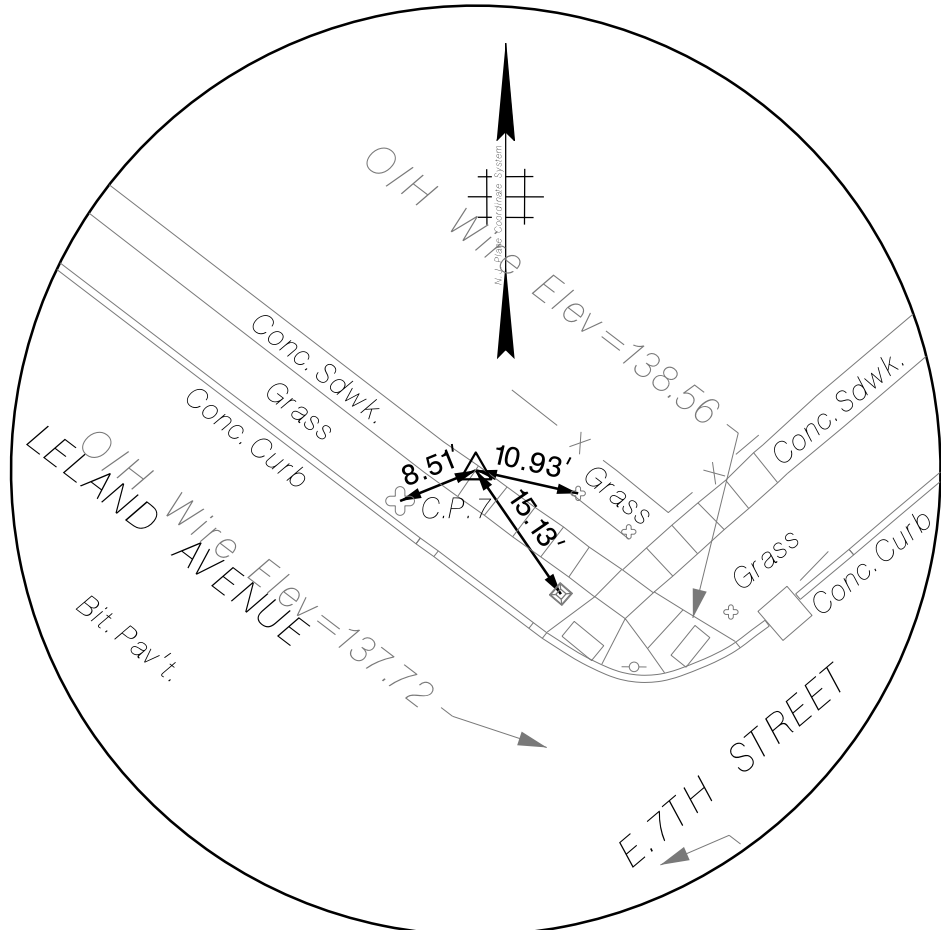
CONTROL POINT 4
MAG NAIL
STA. 402+39.35, 23.84' R
N=652064.3015
E=517647.8928
ELEV.=102.932
N.T.S.



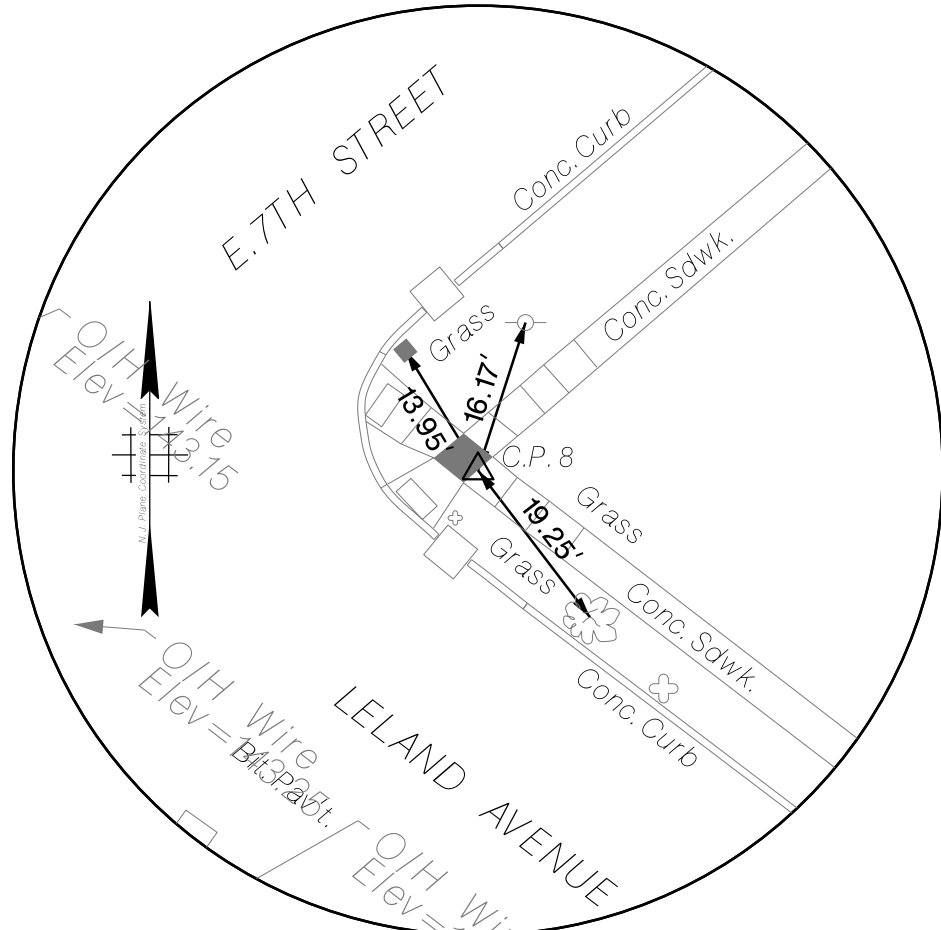
CONTROL POINT 5
MAG NAIL
STA. 502+06.13, 31.56' R
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E=519046.8873
ELEV.=126.244
N.T.S.



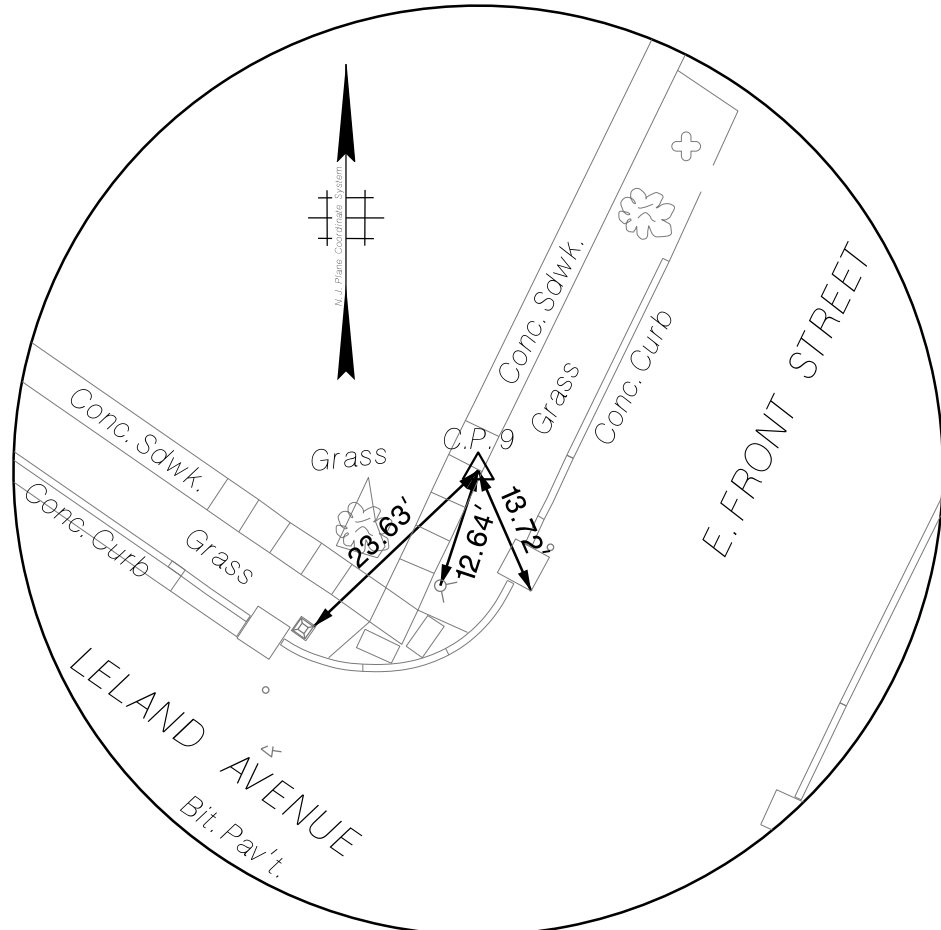
CONTROL POINT 6
MAG NAIL
STA. 601+87.82, 22.07' R
N=653242.5140
E=519022.5713
ELEV.=127.850
N.T.S.



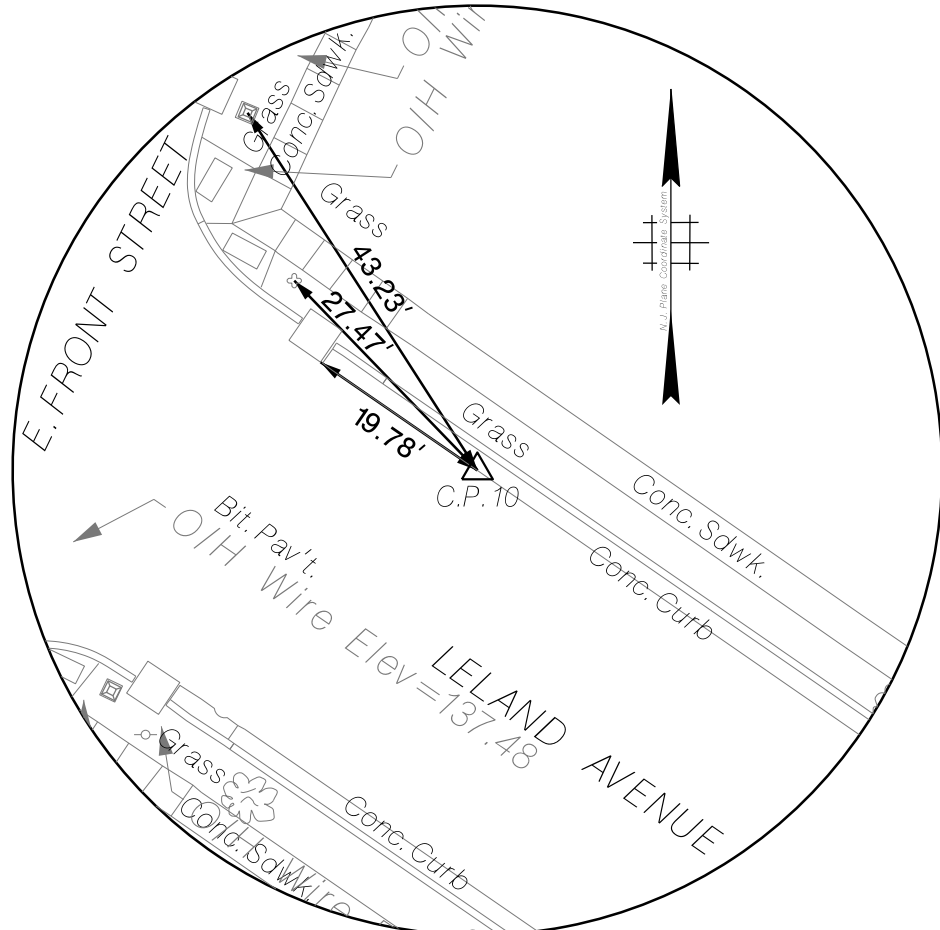
CONTROL POINT 7
MAG NAIL
STA. 802+28.29, 29.63' L
N=654170.3990
E=520121.7580
ELEV.=119.834
N.T.S.



CONTROL POINT 8
MAG NAIL
STA. 803+17.21, 28.48' L
N=654115.5607
E=520191.7670
ELEV.=120.214
N.T.S.



CONTROL POINT 9
MAG NAIL
STA. 903+28.16, 26.56' L
N=656539.5455
E=516766.1423
ELEV.=120.106
N.T.S.



CONTROL POINT 10
MAG NAIL
STA. 1003+50.24, 18.16' L
N=656463.8854
E=516825.8256
ELEV.=119.388
N.T.S.

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TIES

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
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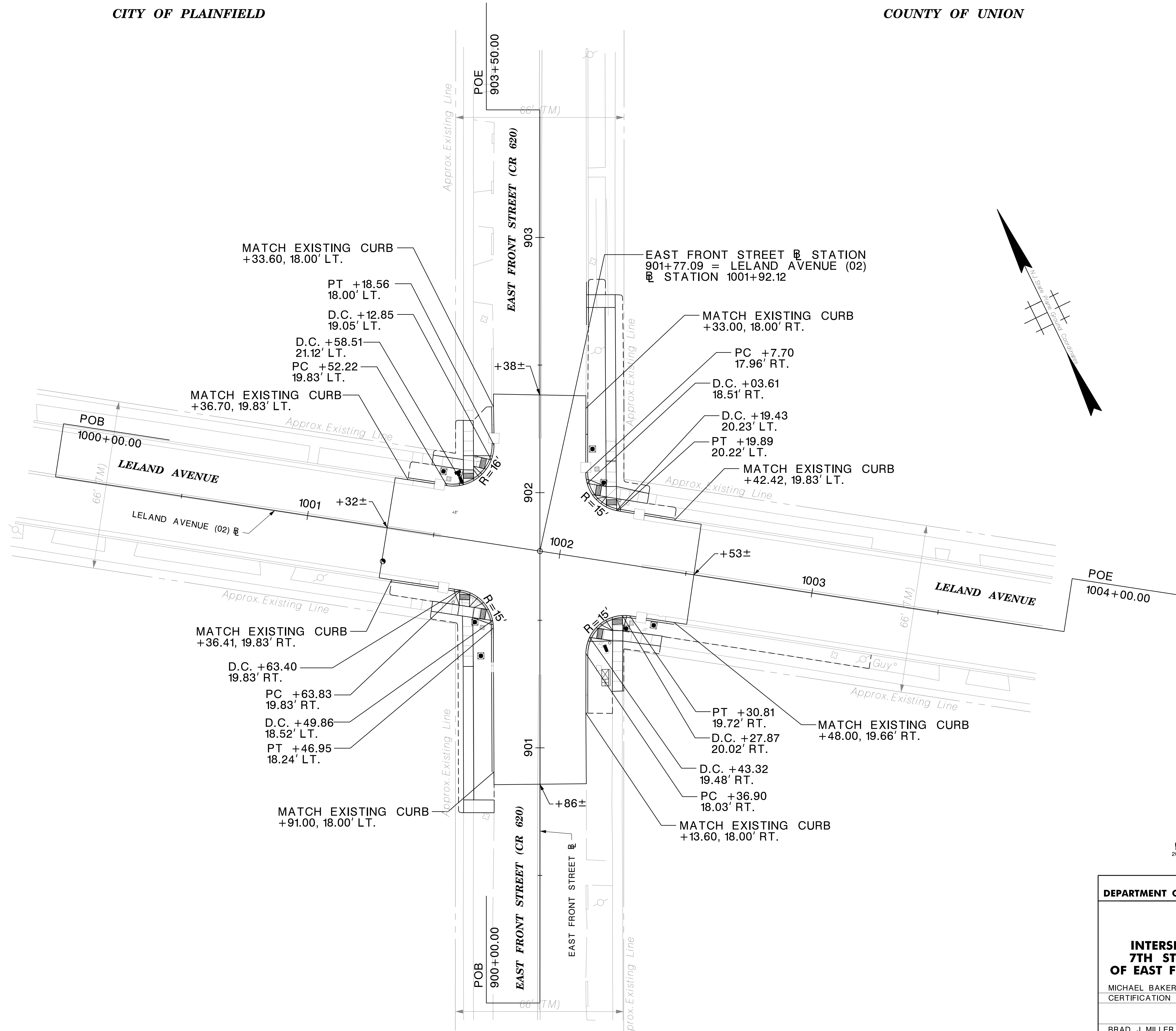
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

T-2
T-2

CITY OF PLAINFIELD

COUNTY OF UNION



L-1
L-5

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

LAYOUT PLANS

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
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BRAD J. MILLER
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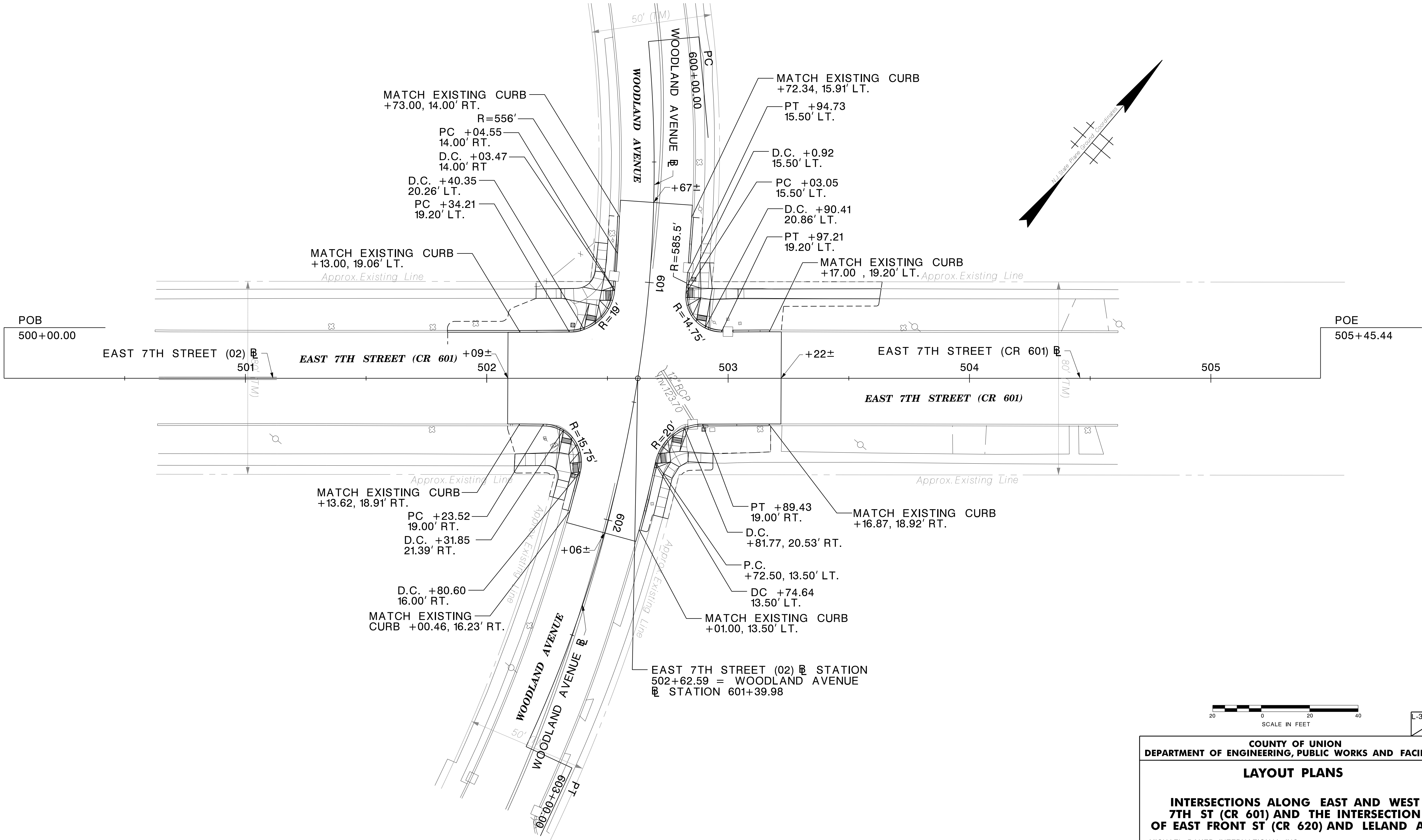


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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



L-3
L-5

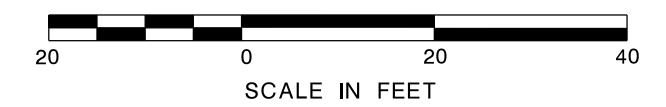
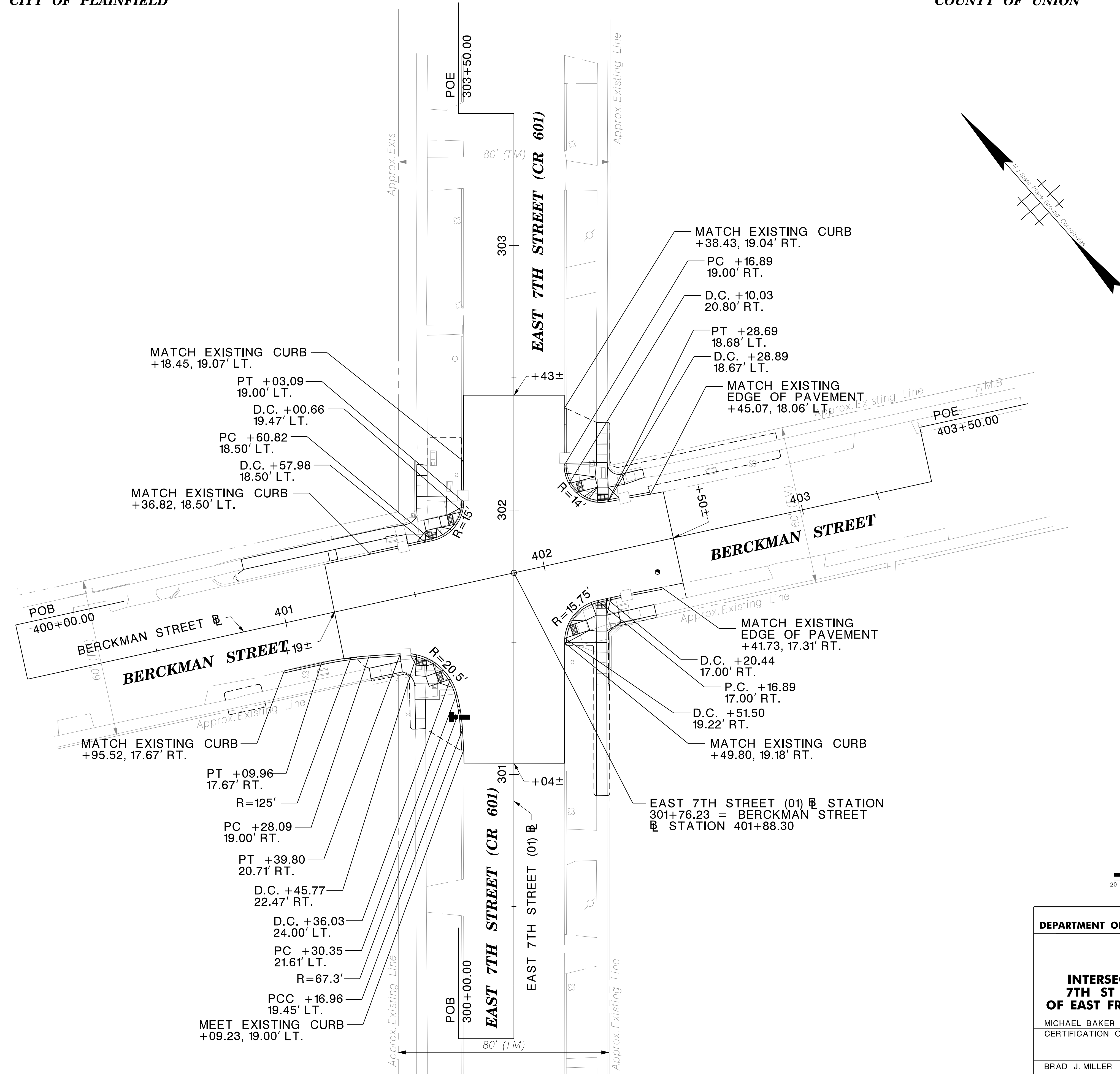
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

LAYOUT PLANS

**INTERSECTIONS ALONG EAST AND WEST
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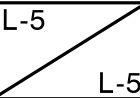
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

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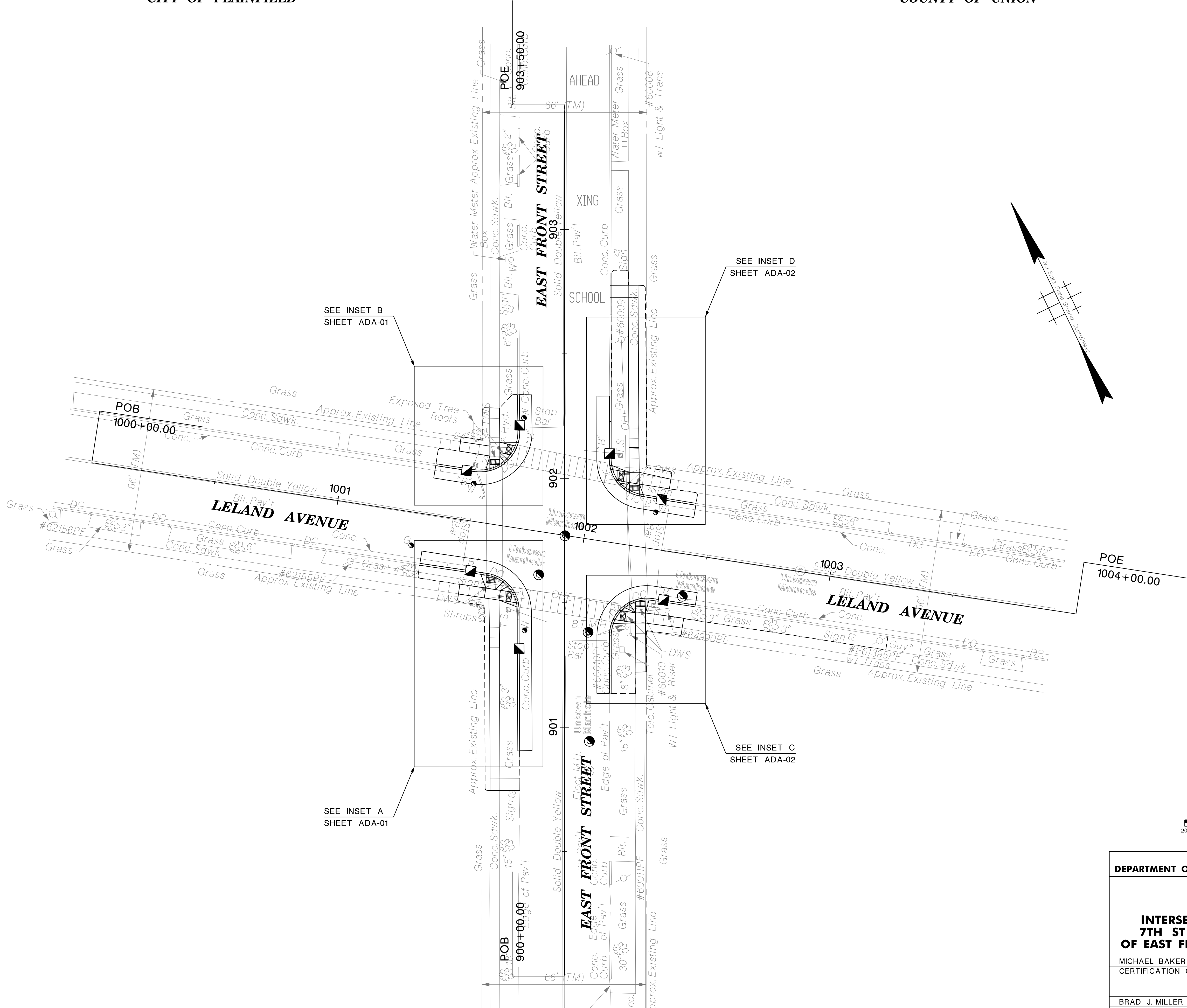


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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

PLAN SHEET INDEX

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

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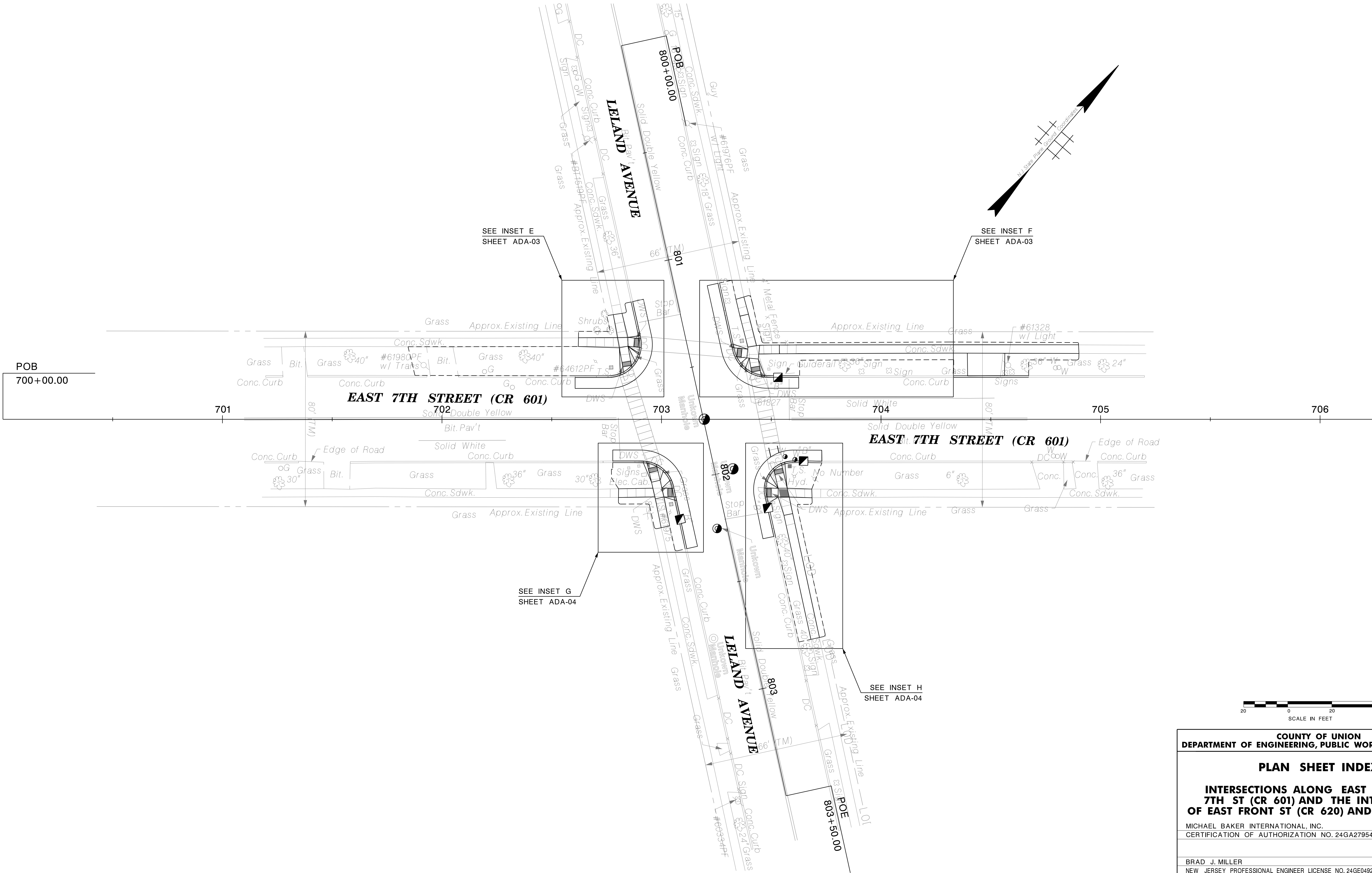
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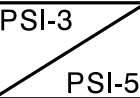
CITY OF PLAINFIELD

COUNTY OF UNION

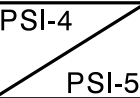
STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



COUNTY OF UNION DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES	
PLAN SHEET INDEX	
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE	
MICHAEL BAKER INTERNATIONAL, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA27954700	
BRAD J. MILLER NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300	



BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE0492730

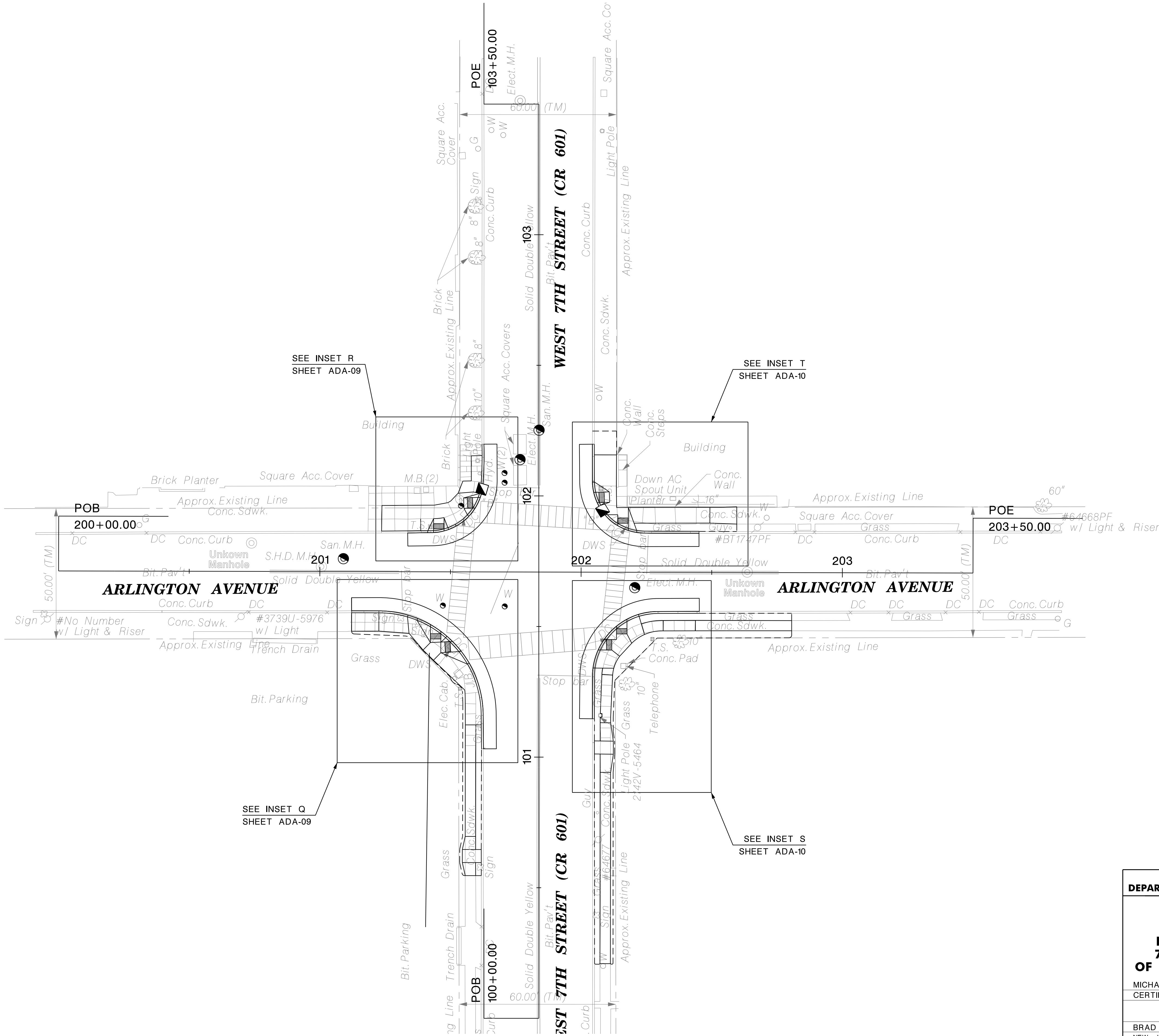


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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



PSI-5
PSI-5

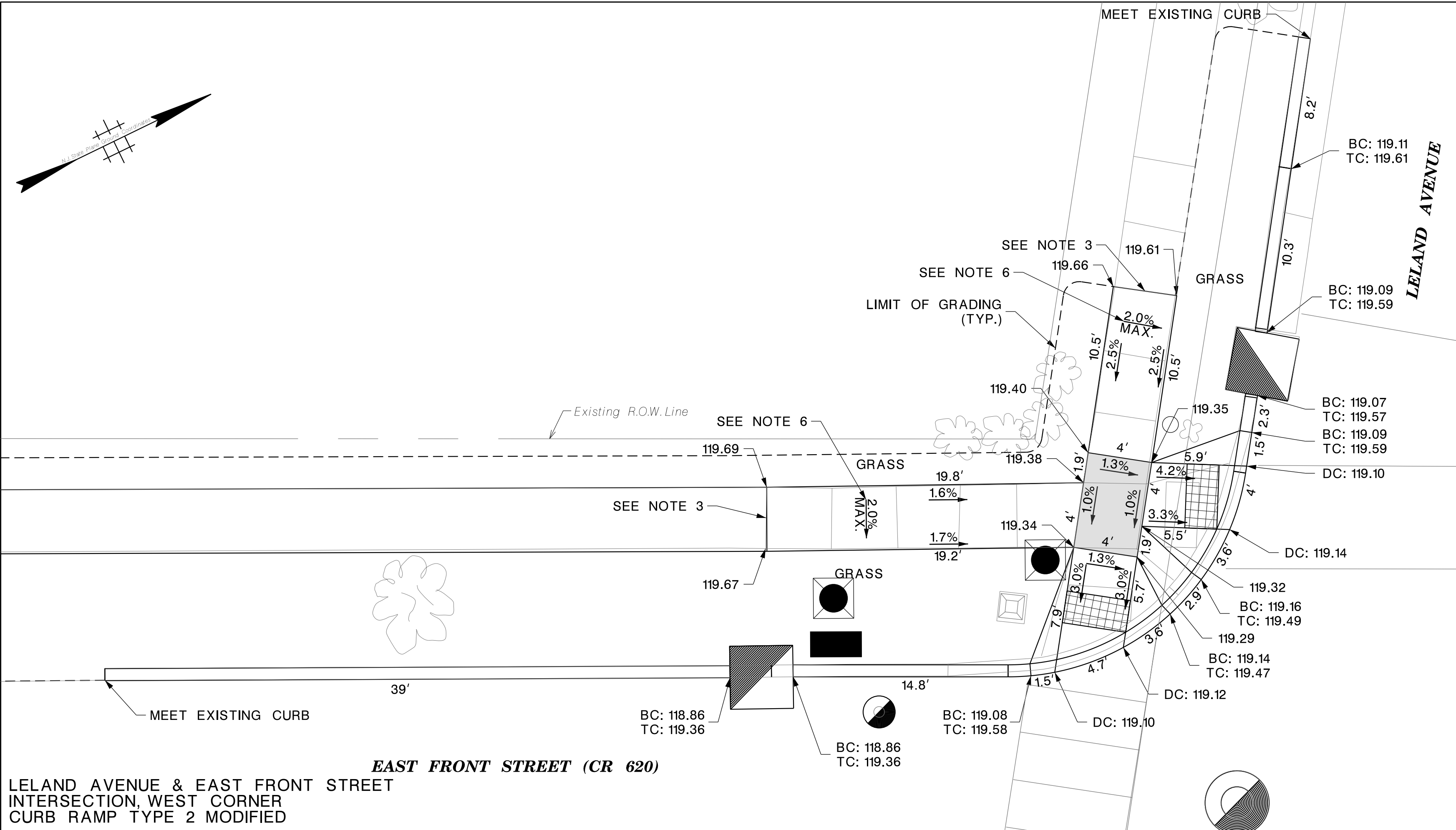
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

PLAN SHEET INDEX

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

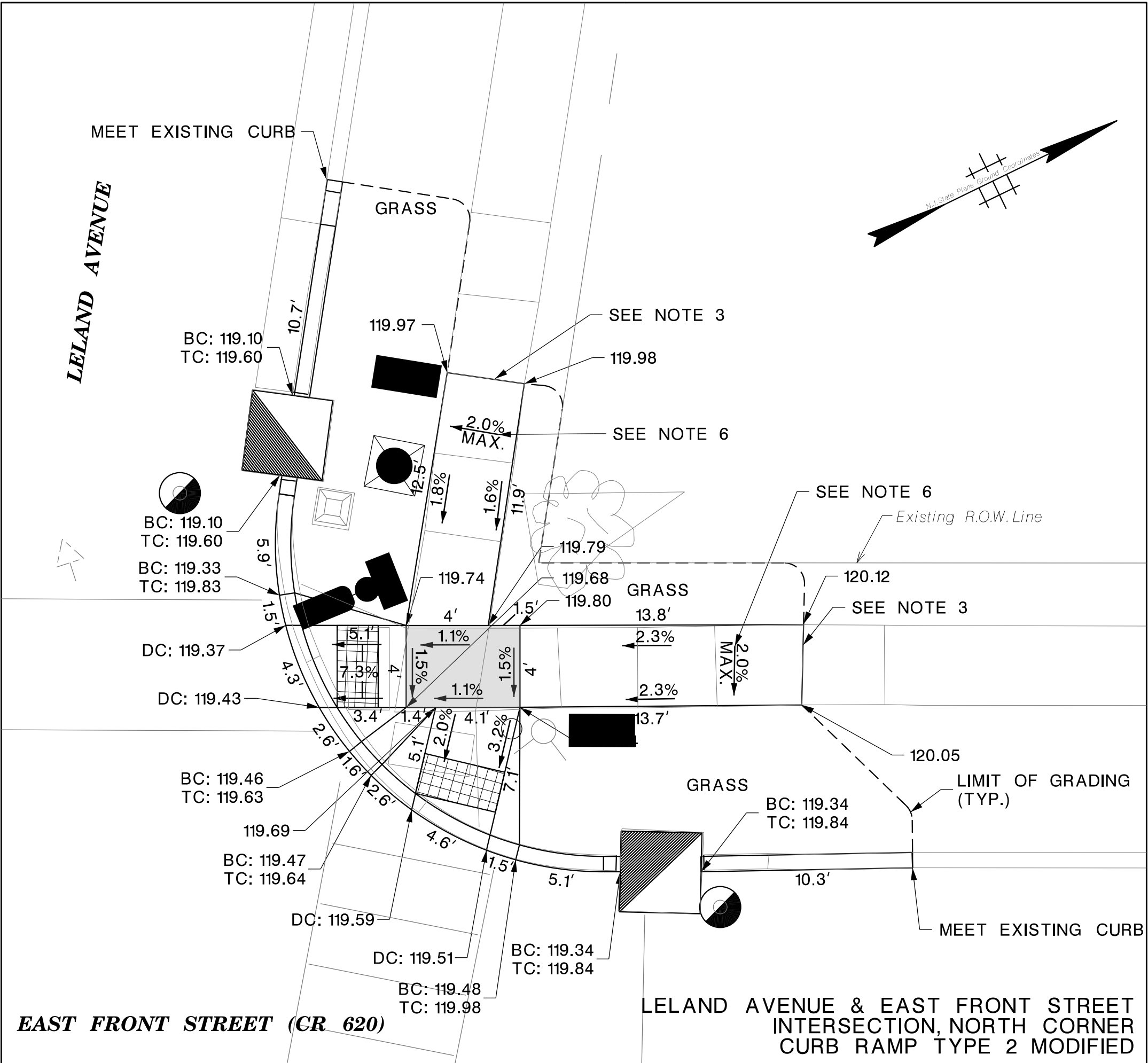
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



INSET A

SCALE: 1" = 5'



INSET B

SCALE: 1" = 5'



NOTES:

- FOR GENERAL NOTES SEE SHEET C-1.
- DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
- MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
- CONTRACTOR TO PROTECT EXISTING LANDSCAPING. ANY DISTURBANCE OR DAMAGE OUTSIDE OF THE LIMIT OF GRADING SHOWN SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST.
- VERTICAL CONTROL AND FINISH TOP OF CURB ELEVATIONS ARE TO BE ESTABLISHED BY LAYING OUT AND CONSTRUCTING CURB SO THAT ITS FINAL GRADE IS 6" FROM FINISHED PAVEMENT IN ALL AREAS WHERE CURB GRADES ARE NOT SHOWN.
- SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.

ADA-1
ADA-10

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

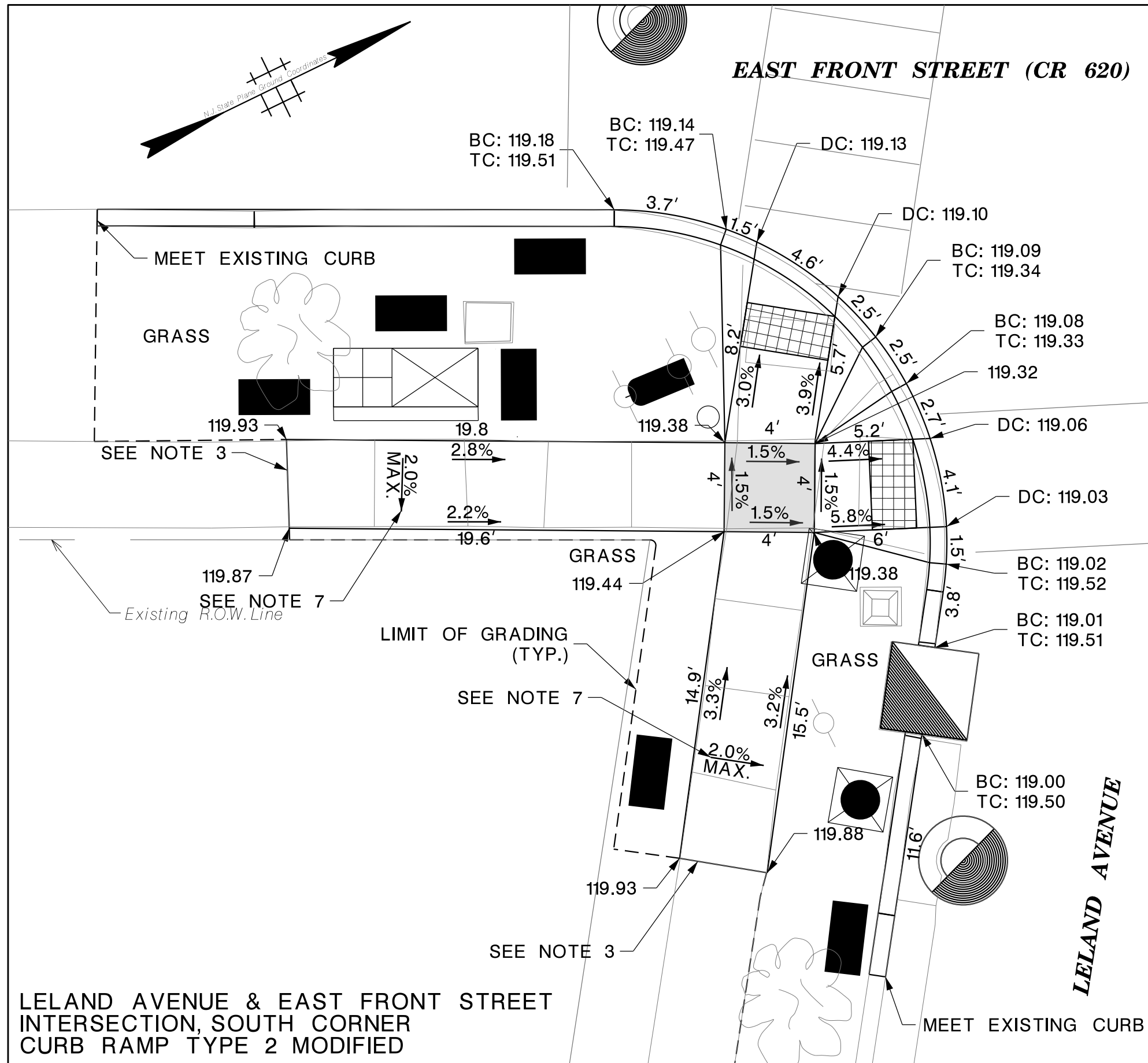
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

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CITY OF PLAINFIELD

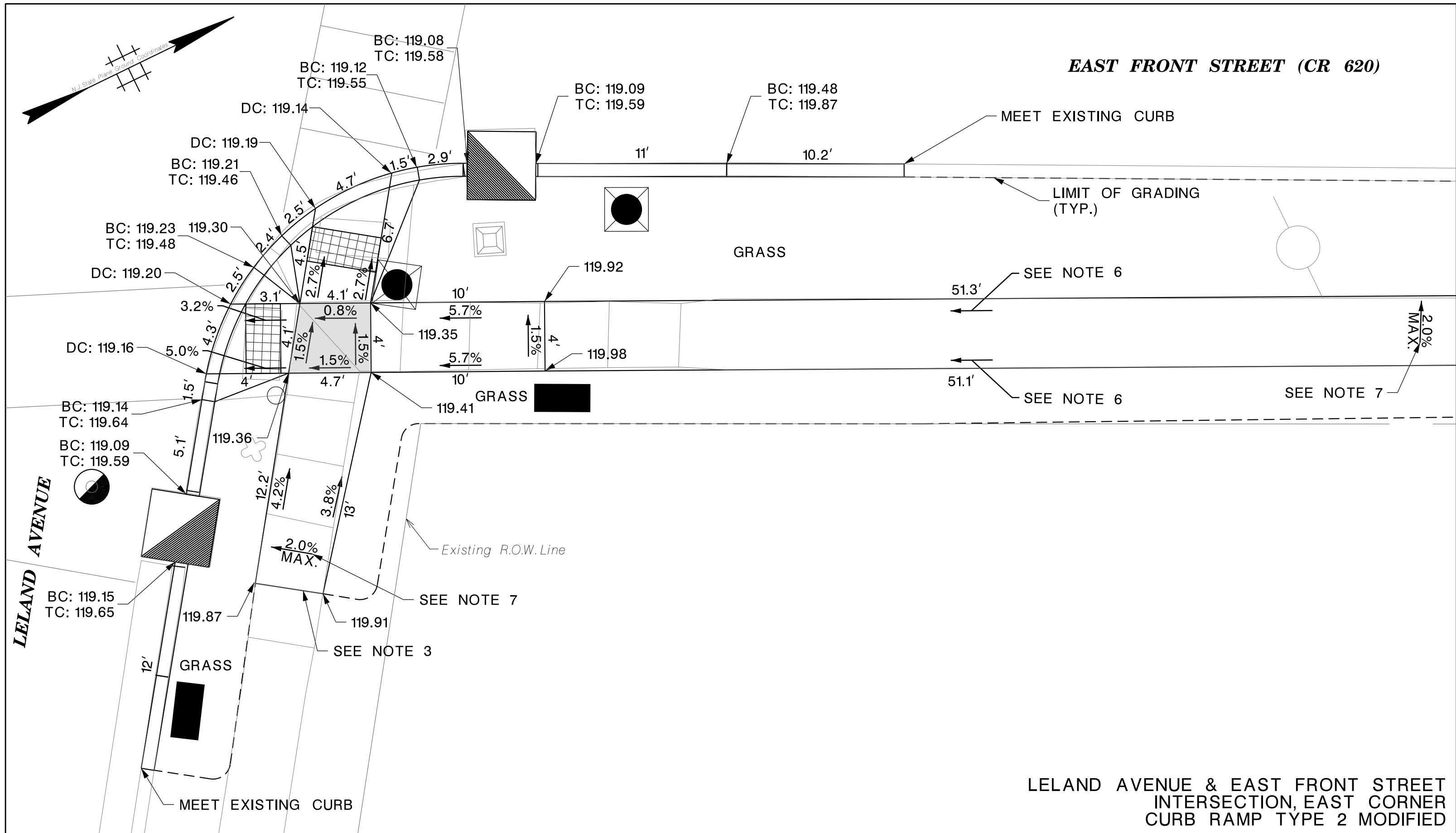
COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



INSET C

SCALE: 1" = 5'



INSET D

SCALE: 1" = 5'

NOTES:

- FOR GENERAL NOTES SEE SHEET C-1.
- DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
- MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
- CONTRACTOR TO PROTECT EXISTING LANDSCAPING. ANY DISTURBANCE OR DAMAGE OUTSIDE OF THE LIMIT OF GRADING SHOWN SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST.
- VERTICAL CONTROL AND FINISH TOP OF CURB ELEVATIONS ARE TO BE ESTABLISHED BY LAYING OUT AND CONSTRUCTING CURB SO THAT ITS FINAL GRADE IS 6" FROM FINISHED PAVEMENT IN ALL AREAS WHERE CURB GRADES ARE NOT SHOWN.
- LONGITUDINAL SLOPES FOR PROPOSED SIDEWALK SHALL FOLLOW THE GRADE OF ADJACENT ROADWAY OR CURBING WHERE PROPOSED SLOPES ARE NOT SHOWN.
- SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.

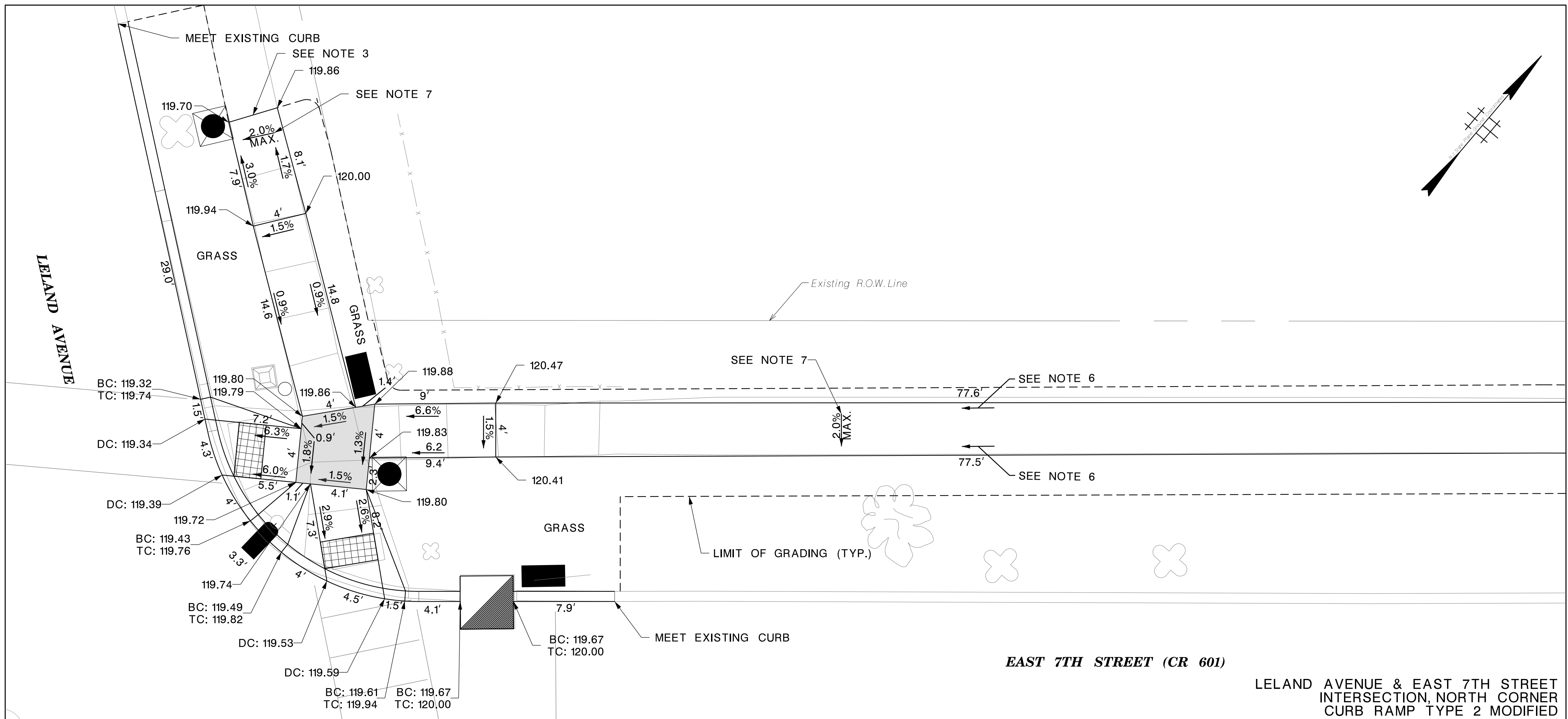


COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS
INTERSECTIONS ALONG EAST AND WEST
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OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
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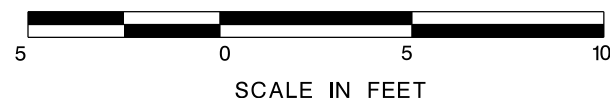
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



INSET F

SCALE: 1" = 5'

1. FOR GENERAL NOTES SEE SHEET C-1.
2. DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
3. MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
4. CONTRACTOR TO PROTECT EXISTING LANDSCAPING. ANY DISTURBANCE OR DAMAGE OUTSIDE OF THE LIMIT OF GRADING SHOWN SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST.
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6. LONGITUDINAL SLOPES FOR PROPOSED SIDEWALK SHALL FOLLOW THE GRADE OF ADJACENT ROADWAY OR CURBING WHERE PROPOSED SLOPES ARE NOT SHOWN.
7. SEE CONCRETE SIDEWALK DETAIL CD-606-59.



ADA-3
ADA-10

COUNTY OF UNION
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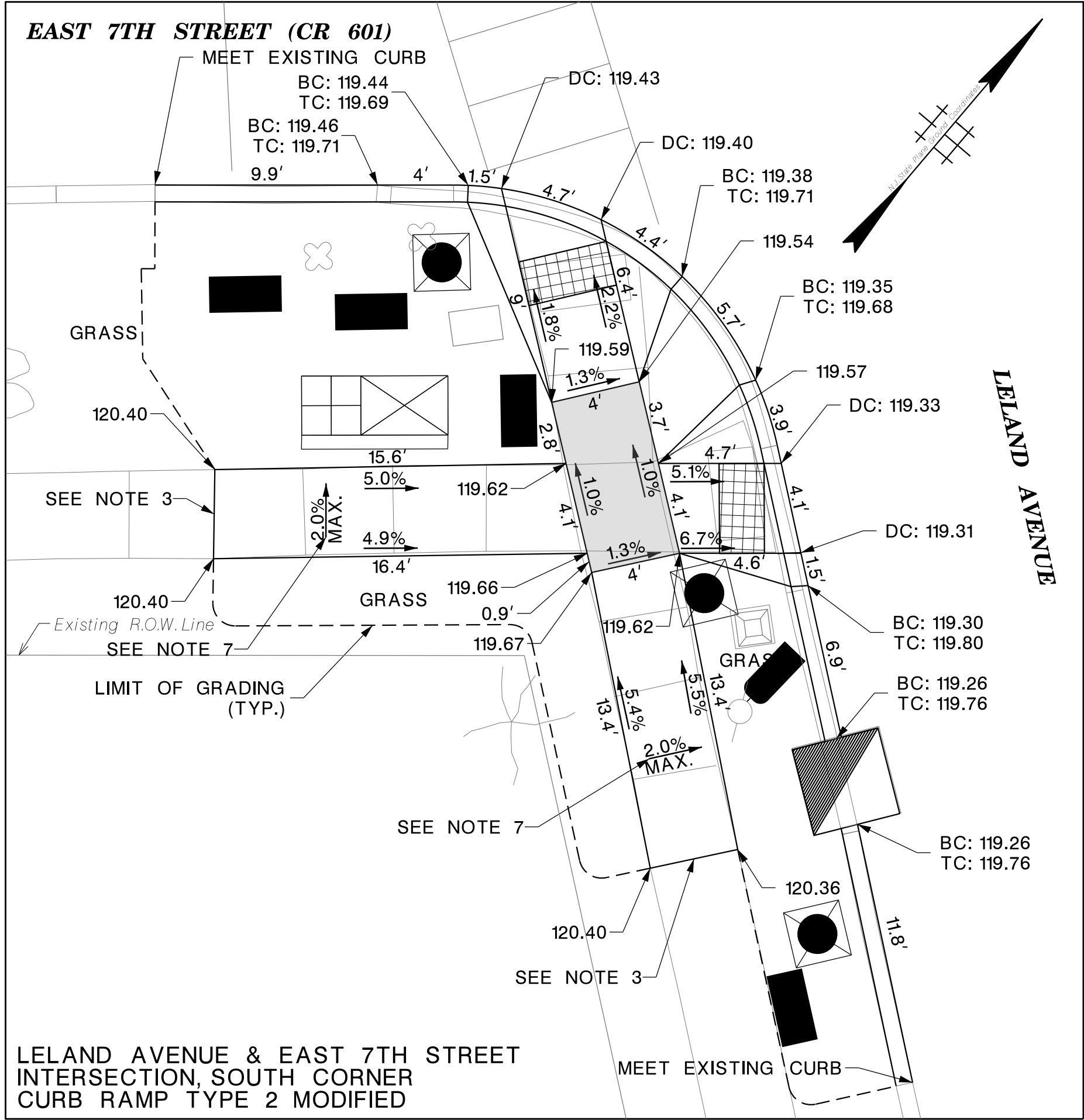
CURB RAMP LAYOUT DETAILS

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

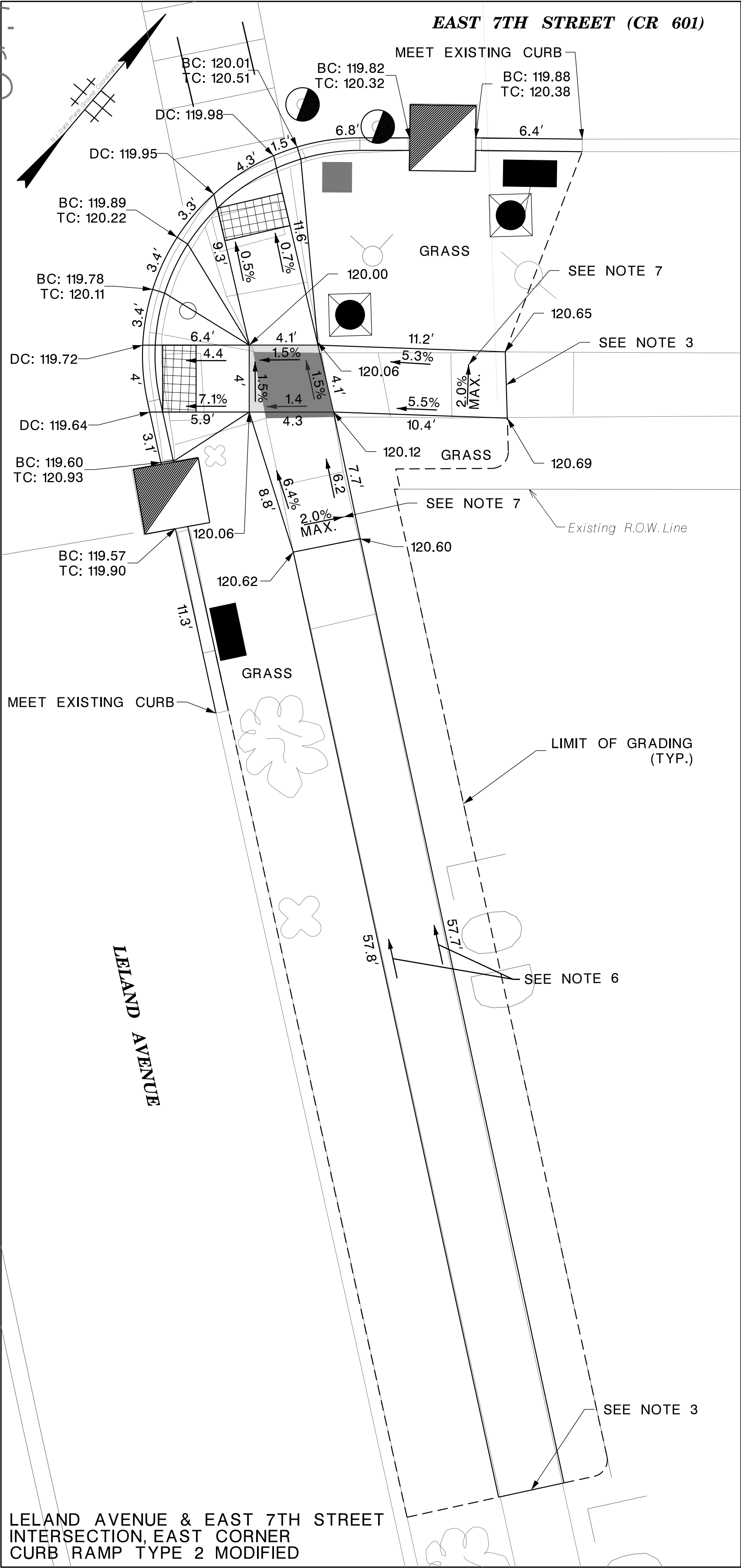
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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
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INSET G
SCALE: 1" = 5'



INSET H
SCALE: 1" = 5'

NOTES:

1. FOR GENERAL NOTES SEE SHEET C-1.
2. DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
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7. SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.



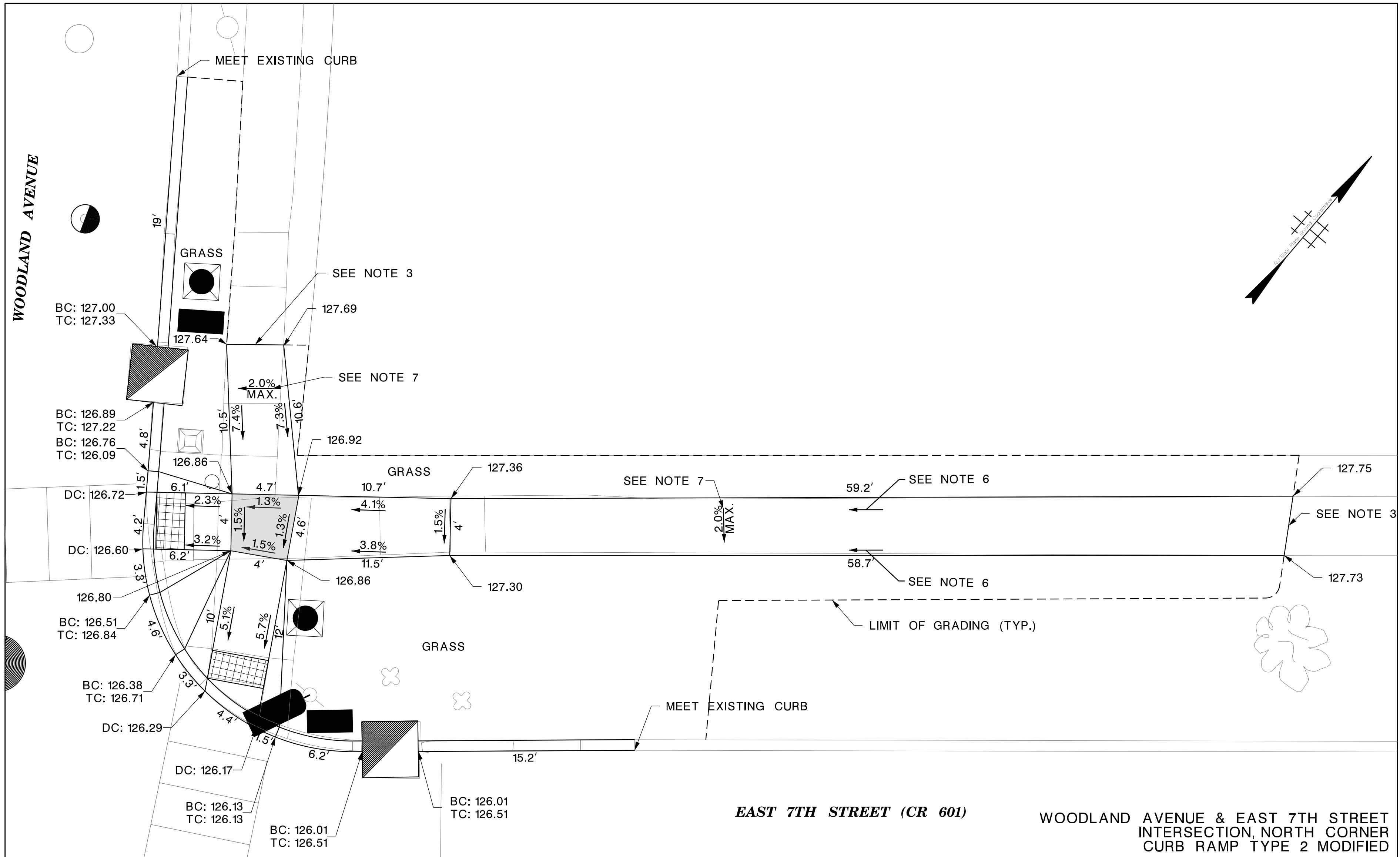
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

ADA-4
ADA-10



INSET J

SCALE: 1" = 5'

-
- 5 0 5 10
SCALE IN FEET

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

26

INSET K

SCALE: 1" = 5'

INSET L

SCALE: 1" = 5'



NOTES:

1. FOR GENERAL NOTES SEE SHEET C-1.
2. DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
3. MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
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6. SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.

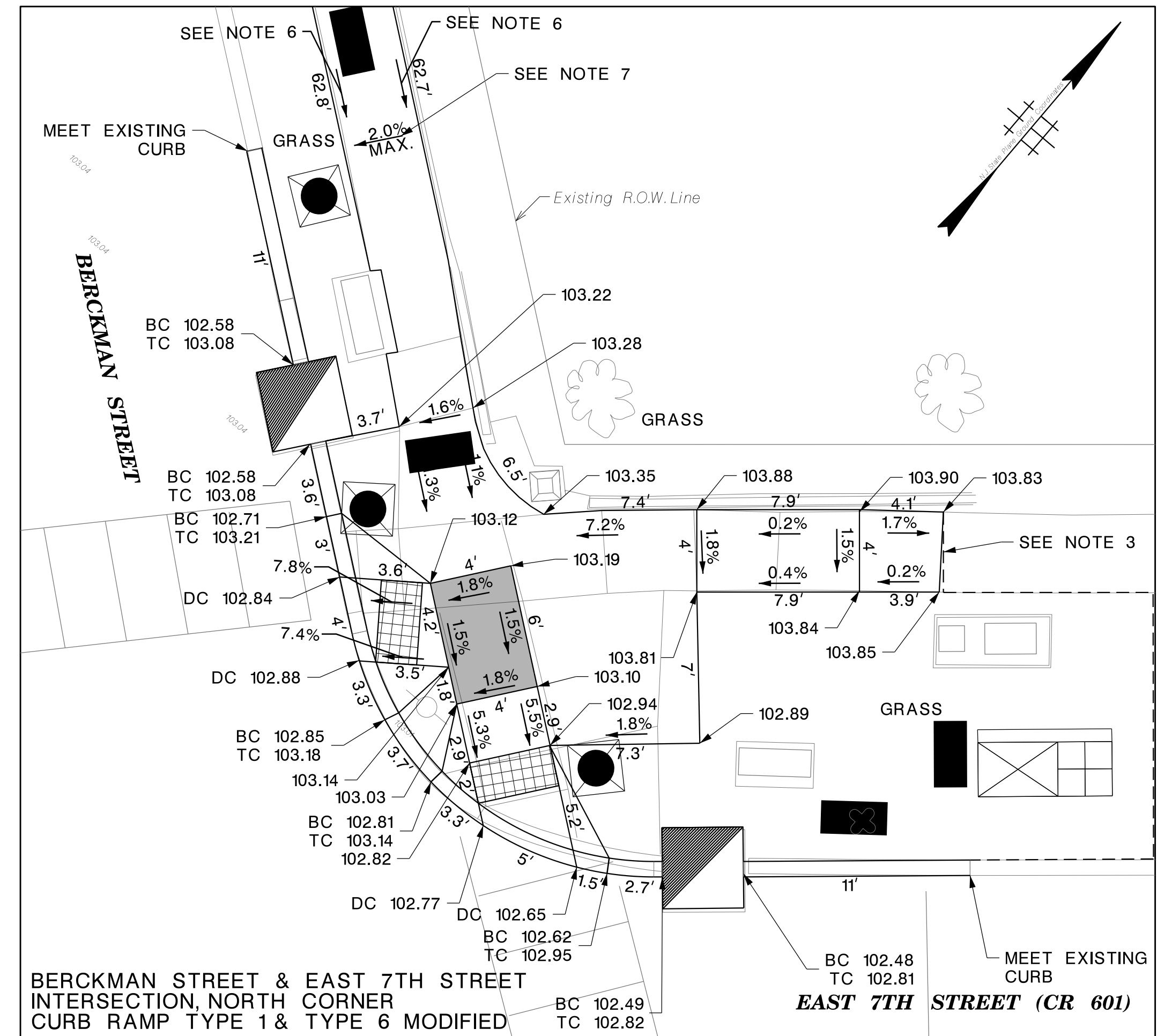
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS

INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



INSET N

SCALE: 1" = 5'

5 0 5 10

SCALE IN FEET

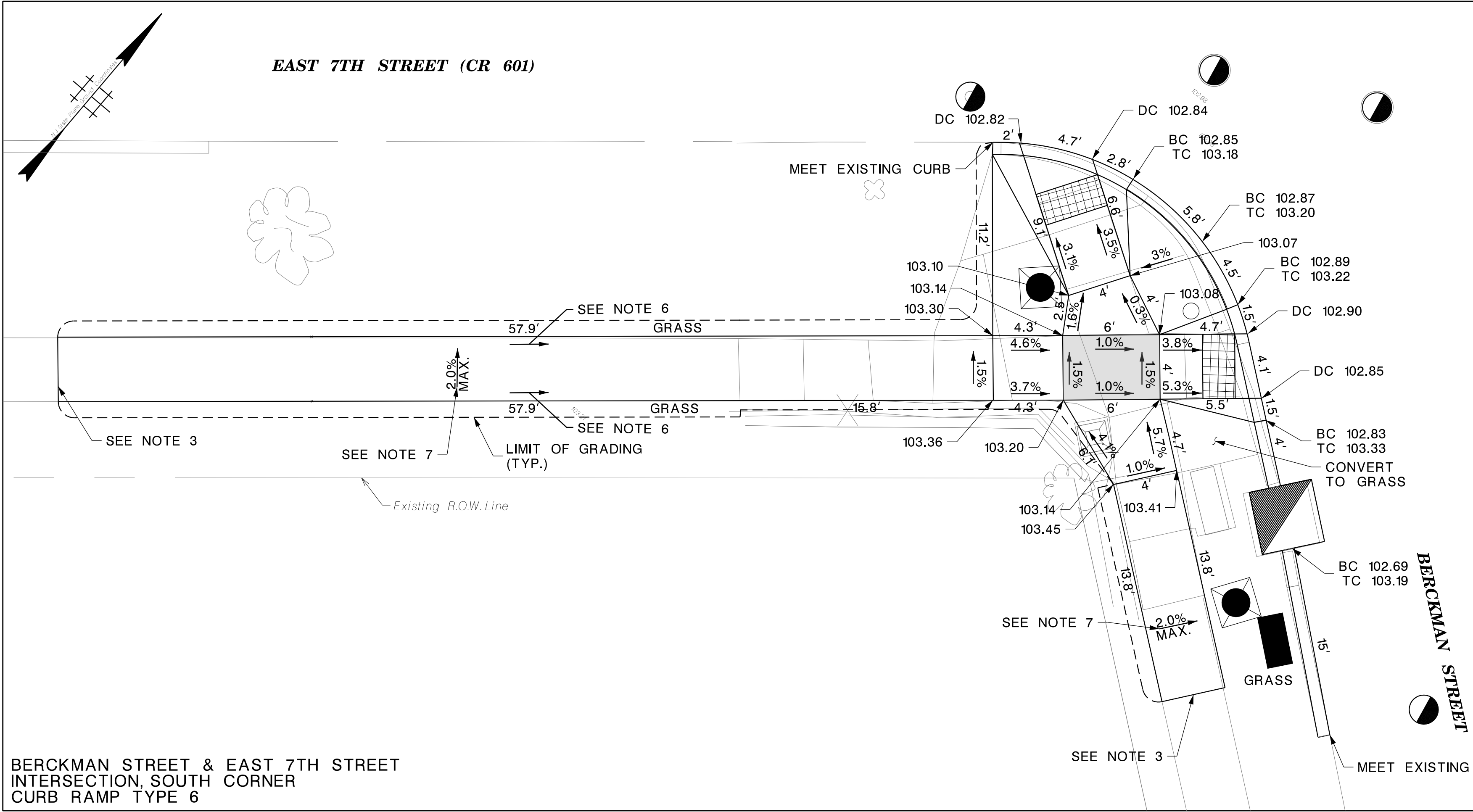
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|---|
| BRAD J. MILLER |
| NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300 |

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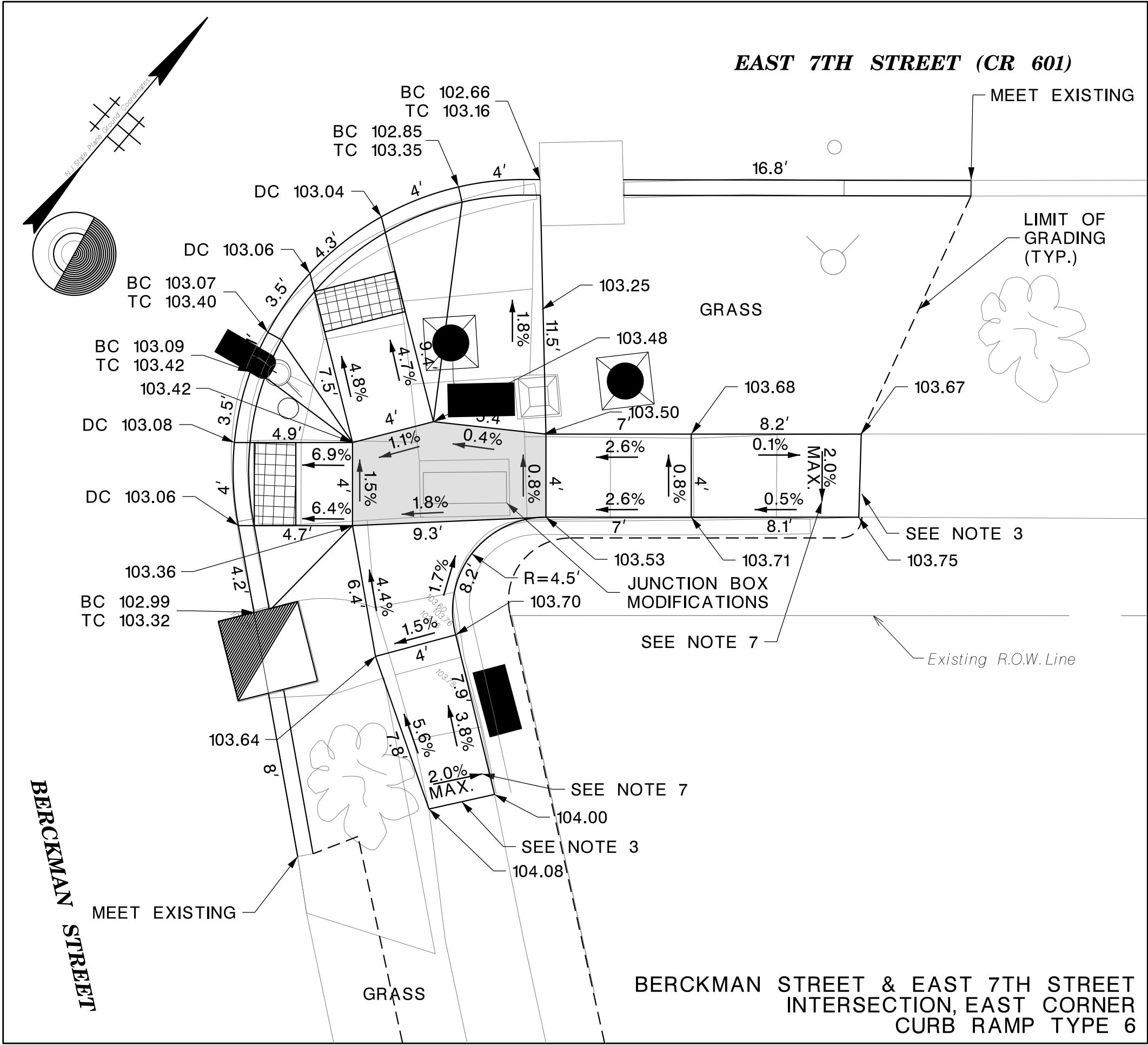
CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



INSET O
SCALE: 1" = 5'



INSET P
SCALE: 1" = 5'

NOTES:

1. FOR GENERAL NOTES SEE SHEET C-1.
2. DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
3. MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
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7. SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.

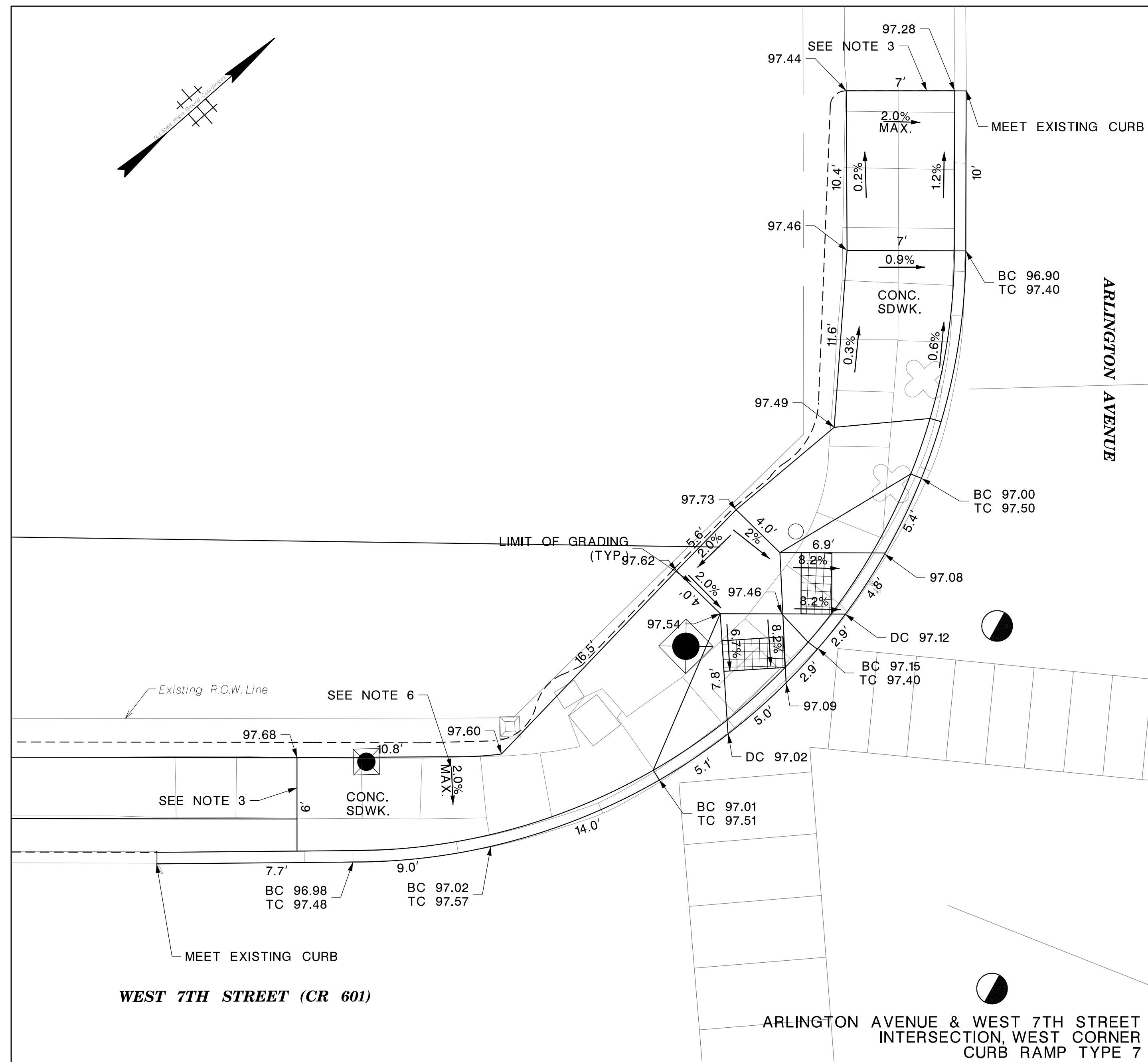


COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
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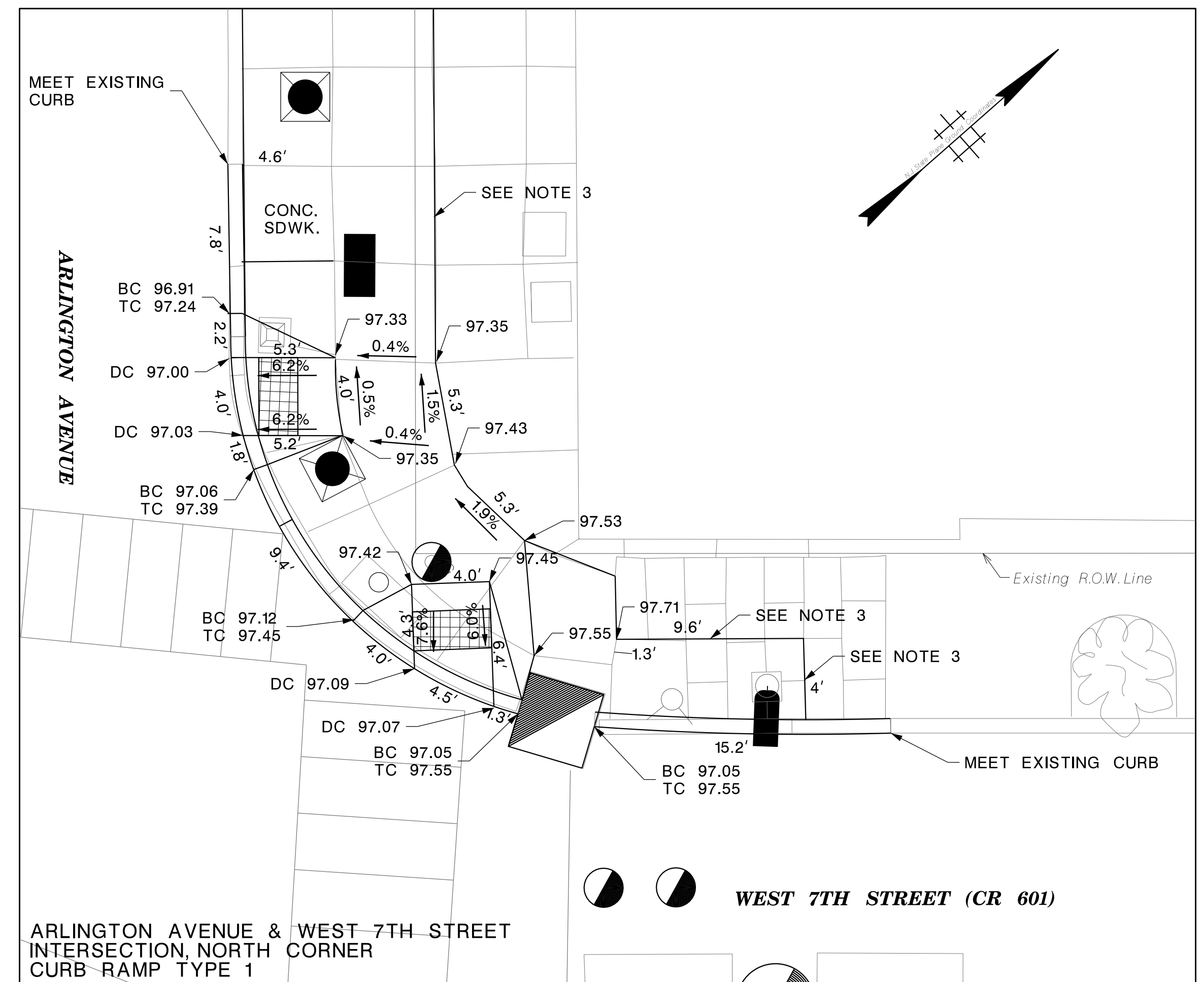


INSET Q

SCALE: 1" = 5'

NOTES:

1. FOR GENERAL NOTES SEE SHEET C-1.
2. DISTANCES SHOWN ARE FROM JOINT TO JOINT AND FROM BACK OF CURB TO THE NEXT JOINT UNLESS OTHERWISE DIMENSIONED.
3. MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
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6. SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.



INSET R

SCALE: 1" = 5'



DA-9

DA-10

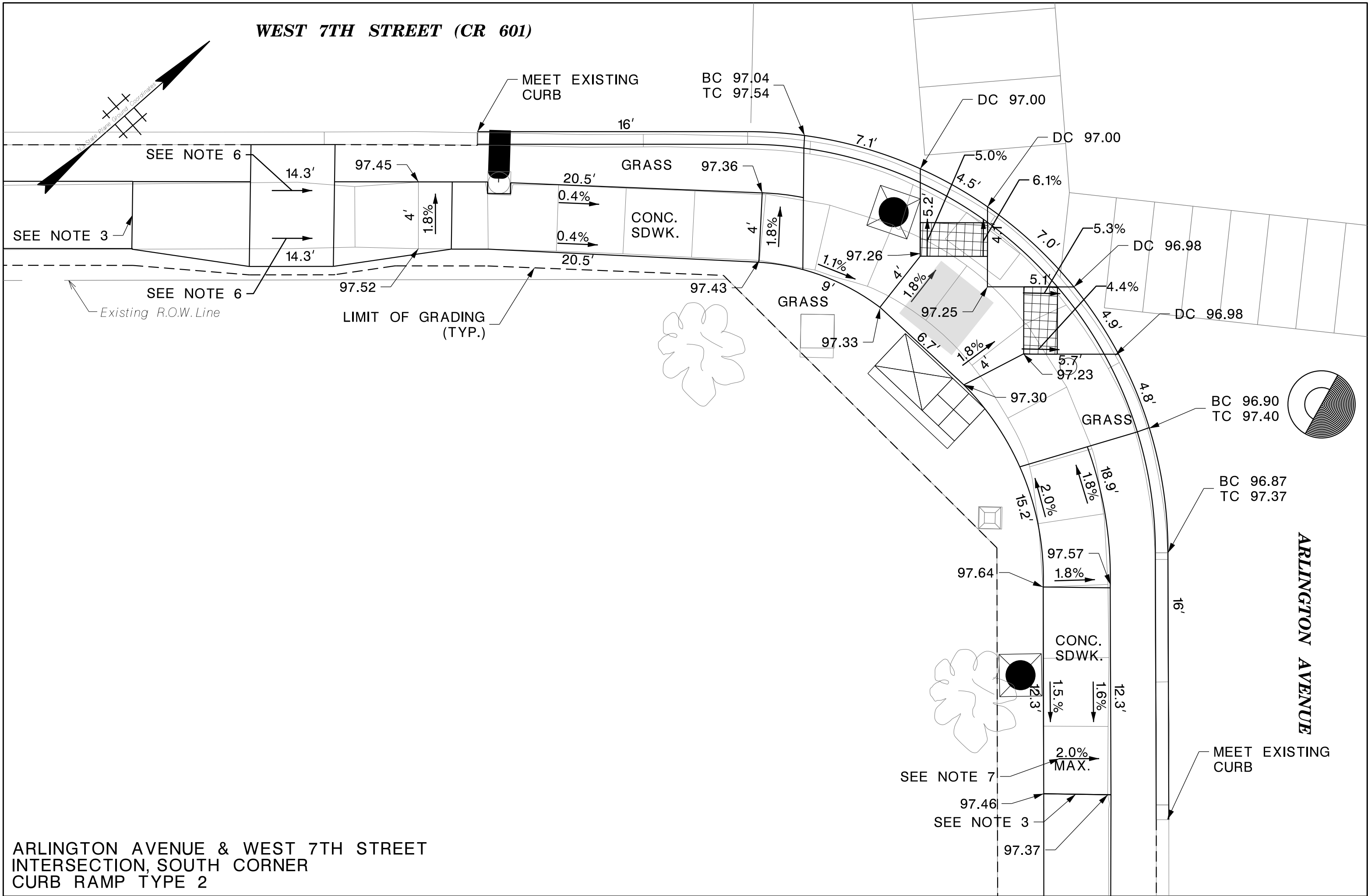
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

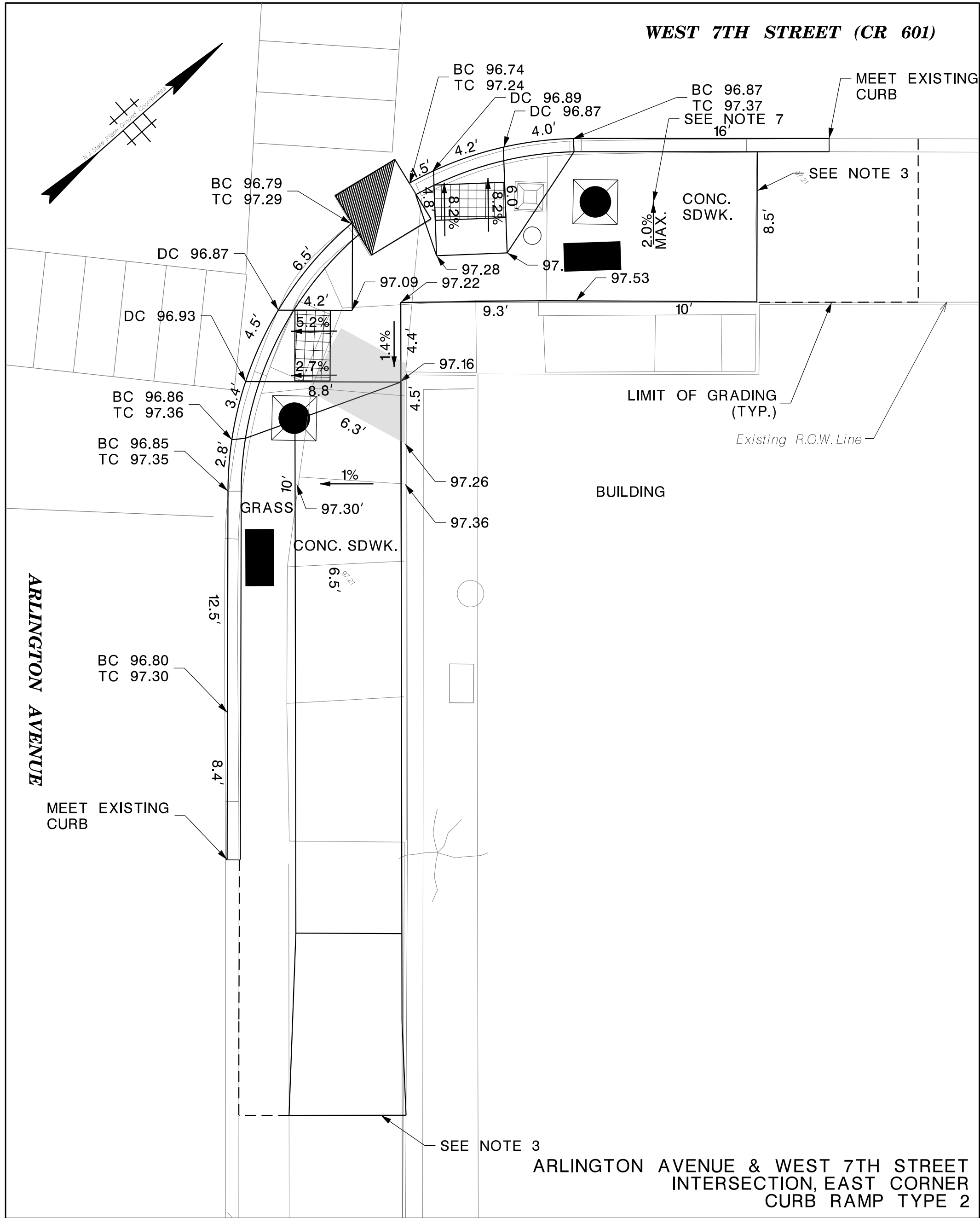
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



INSET S

SCALE: 1" = 5'



INSET T

SCALE: 1" = 5'



NOTES:

- FOR GENERAL NOTES SEE SHEET C-1.
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- MEET EXISTING SIDEWALK ELEVATION AND CROSS SLOPE.
- CONTRACTOR TO PROTECT EXISTING LANDSCAPING. ANY DISTURBANCE OR DAMAGE OUTSIDE OF THE LIMIT OF GRADING SHOWN SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST.
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- SEE CONCRETE SIDEWALK DETAIL CD-606-5.9.

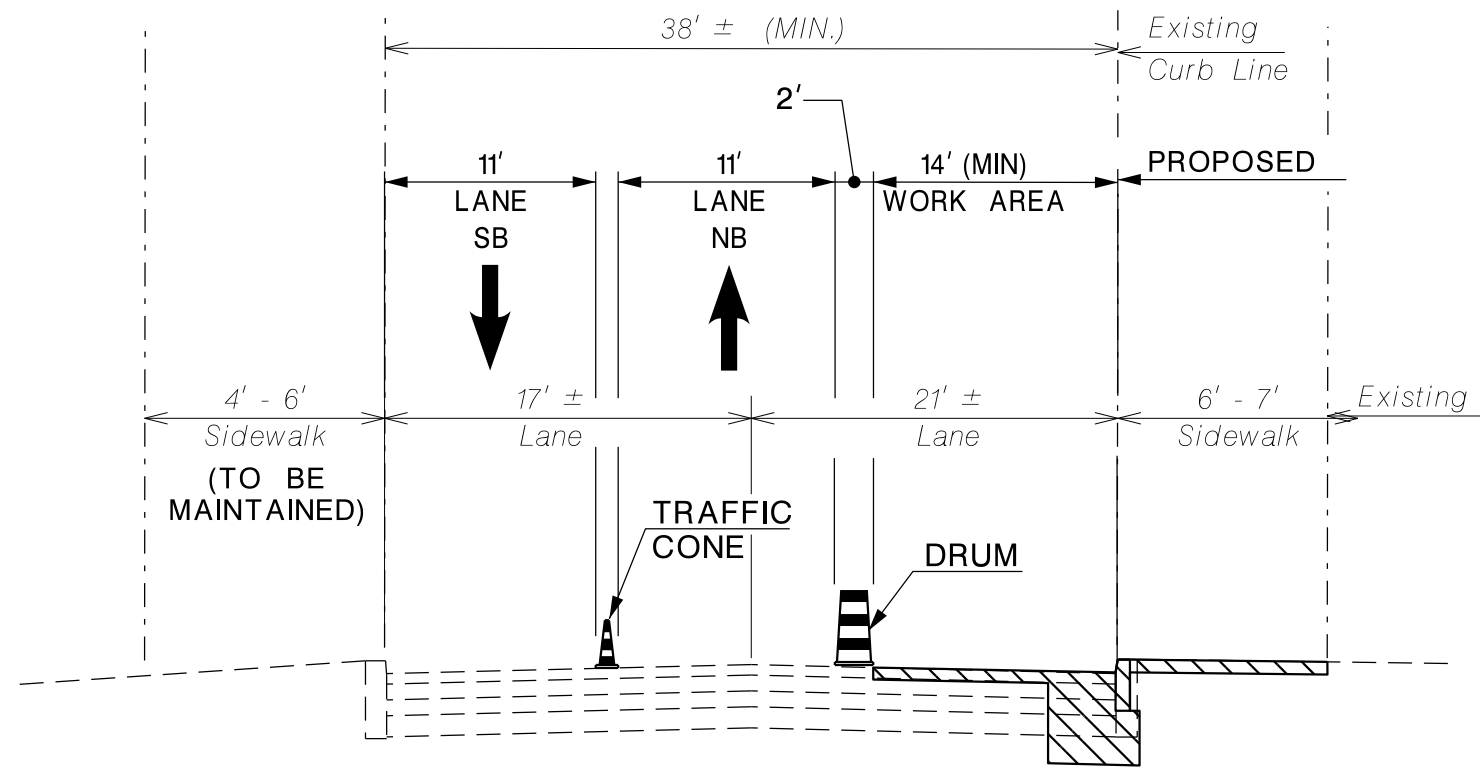
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CURB RAMP LAYOUT DETAILS

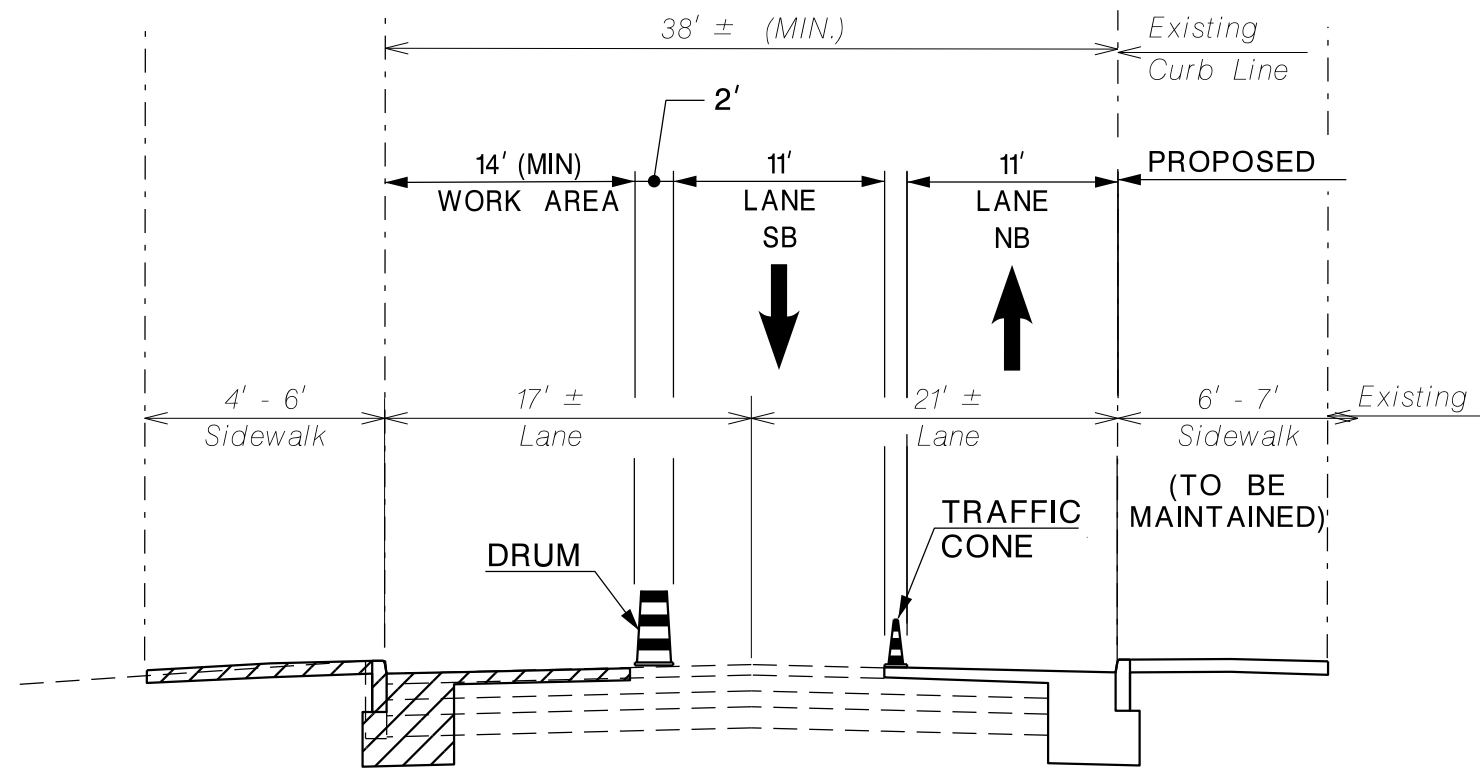
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



STAGE 1



STAGE 2

SEQUENCE OF CONSTRUCTION
EAST FRONT STREET, EAST AND WEST 7TH STREET (CR 601) AND EAST FRONT STREET AT LELAND AVENUE:

STAGE 1

- ON-STREET PARKING, WHERE EXISTING, TO BE TEMPORARILY SUSPENDED DURING WORKING HOURS AND AS OTHERWISE NECESSARY TO EFFECTUATE AND COMPLETE CONSTRUCTION.
- CONSTRUCTION SHALL ONLY OCCUR ON ONE SIDE OF THE ROADWAY AT ANY PARTICULAR TIME. SHIFT TRAFFIC TO SOUTHBOUND SIDE OF EAST AND WEST SEVENTH STREET AND EAST FRONT STREET TO PERFORM WORK ON THE EASTERLY SIDE OF ROADWAY. THE GENERAL SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:
 - DRAINAGE STRUCTURES AND PIPES
 - UNDERGROUND SIGNAL WORK
 - CURB AND ASSOCIATED FULL DEPTH PAVEMENT REPAIR AND RESETTING OF EXISTING DRAINAGE STRUCTURE CASTINGS
 - SIDEWALK AND CURB RAMPS
 - REMAINING SIGNAL WORK NOT PREVIOUSLY COMPLETED (E.G. SIGNAL STANDARDS, MAST ARMS, SIGNS, SIGNAL HEADS, PUSH BUTTONS, PEDESTRIAN HEADS, ETC.)
 - MILLING, SURFACE COURSE PAVING, RESETTING MANHOLE CASTINGS, VALVE BOXES AND ALL ANCILLARY FINAL PAVING WORK, SIGNING AND STRIPING
- TWO-WAY TWO-LANE TRAFFIC LANES SHALL BE SEPARATED WITH TRAFFIC CONES DURING WORKING HOURS
- CONSTRUCTION OF THE CORNER CURB RAMPS AND OTHER IMPROVEMENTS TO THE INTERSECTION SHALL BE PERFORMED UTILIZING THE NJDOT STANDARD TRAFFIC CONTROL DETAILS, PARTICULARLY DTL-12 (TCD-5), DTL-13 (TCD-6), AND DTL-14 (TCD-7).
- NO EXCAVATIONS ARE TO REMAIN OPEN DURING NON-WORKING HOURS AND SHALL BE BACKFILLED AND RAMPED IN CONFORMANCE WITH THE NJDOT ESCAPE RAMP DETAIL DTL-10 (TCD-2). AT THE CONCLUSION OF WORKING HOURS, TRAFFIC PATTERNS SHALL BE RESTORED TO THE EXISTING LANE CONFIGURATIONS.

STAGE 2

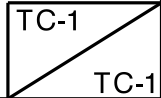
- ON-STREET PARKING, WHERE EXISTING, TO BE TEMPORARILY SUSPENDED DURING WORKING HOURS AND AS OTHERWISE NECESSARY TO EFFECTUATE AND COMPLETE CONSTRUCTION.
- CONSTRUCTION SHALL ONLY OCCUR ON ONE SIDE OF THE ROADWAY AT ANY PARTICULAR TIME. SHIFT TRAFFIC TO NORTHBOUND SIDE OF EAST AND WEST SEVENTH STREET AND EAST FRONT STREET TO PERFORM WORK ON THE WESTERLY SIDE OF ROADWAY. THE GENERAL SEQUENCE OF CONSTRUCTION IS AS FOLLOWS:
 - DRAINAGE STRUCTURES AND PIPES
 - UNDERGROUND SIGNAL WORK
 - CURB AND ASSOCIATED FULL DEPTH PAVEMENT REPAIR AND RESETTING OF EXISTING DRAINAGE STRUCTURE CASTINGS
 - SIDEWALK AND CURB RAMPS
 - REMAINING SIGNAL WORK NOT PREVIOUSLY COMPLETED (E.G. SIGNAL STANDARDS, MAST ARMS, SIGNS, SIGNAL HEADS, PUSH BUTTONS, PEDESTRIAN HEADS, ETC.)
 - MILLING, RESETTING MANHOLE CASTINGS, VALVE BOXES AND SIGNING AND TEMPORARY STRIPING
- TWO-WAY TWO-LANE TRAFFIC LANES SHALL BE SEPARATED WITH TRAFFIC CONES DURING WORKING HOURS
- CONSTRUCTION OF THE CORNER CURB RAMPS AND OTHER IMPROVEMENTS TO THE INTERSECTION SHALL BE PERFORMED UTILIZING THE NJDOT STANDARD TRAFFIC CONTROL DETAILS, PARTICULARLY DTL-12 (TCD-5), DTL-13 (TCD-6), AND DTL-14 (TCD-7).
- NO EXCAVATIONS ARE TO REMAIN OPEN DURING NON-WORKING HOURS AND SHALL BE BACKFILLED AND RAMPED IN CONFORMANCE WITH THE NJDOT ESCAPE RAMP DETAIL DTL-10 (TCD-2). AT THE CONCLUSION OF WORKING HOURS, TRAFFIC PATTERNS SHALL BE RESTORED TO THE EXISTING LANE CONFIGURATIONS.

STAGE 3 (NOT ILLUSTRATED)

- COMPLETE REMAINING MILLING OF SURFACE COURSE, PAVE SURFACE COURSE TO THE LIMITS SHOWN ON THE CONSTRUCTION PLANS. COMPLETE FINAL STRIPING.

NOTES:

- ALL SECTIONS SHOWN ARE LOOKING UP STATION.
- WORK IMMEDIATELY ADJACENT TO THE TRAVEL LANE WILL REQUIRE THE ADJACENT LANE TO BE CLOSED DURING PREMISSABLE LANE CLOSURE HOURS AS PER NOTE 14 ON SHEET DTL-09 (TCD-1) AT THE END OF THE WORK SHIFT.
- PRIOR TO SHIFTING TRAFFIC FROM STAGE 1 TO STAGE 2 DURING PERMISSIBLE HOURS PROVIDE ESCAPE RAMP AS PER DTL-10 (TCD-2) WITH TEMPORARY PAVEMENT WHERE EXISTING PAVEMENT IS MORE THAN 2" HIGHER/LOWER THAN PROPOSED INTERMEDIATE COURSE.
- STAGE 1 SHALL UTILIZE NJDOT TRAFFIC CONTROL DETAILS DTL-11 (TCD-3) TO CLOSE THE RIGHT SHOULDER AND SHIFT LANES.
- STAGE 2 SHALL UTILIZE NJDOT TRAFFIC CONTROL DETAILS DTL-11 (TCD-3) TO CLOSE THE RIGHT SHOULDER AND SHIFT LANES.
- PEDESTRIAN DETOUR SHALL UTILIZE MANUAL OF TRAFFIC CONTROL DEVICES (MUTCD) 2009 FIGURE 6H-29.



COUNTY OF UNION
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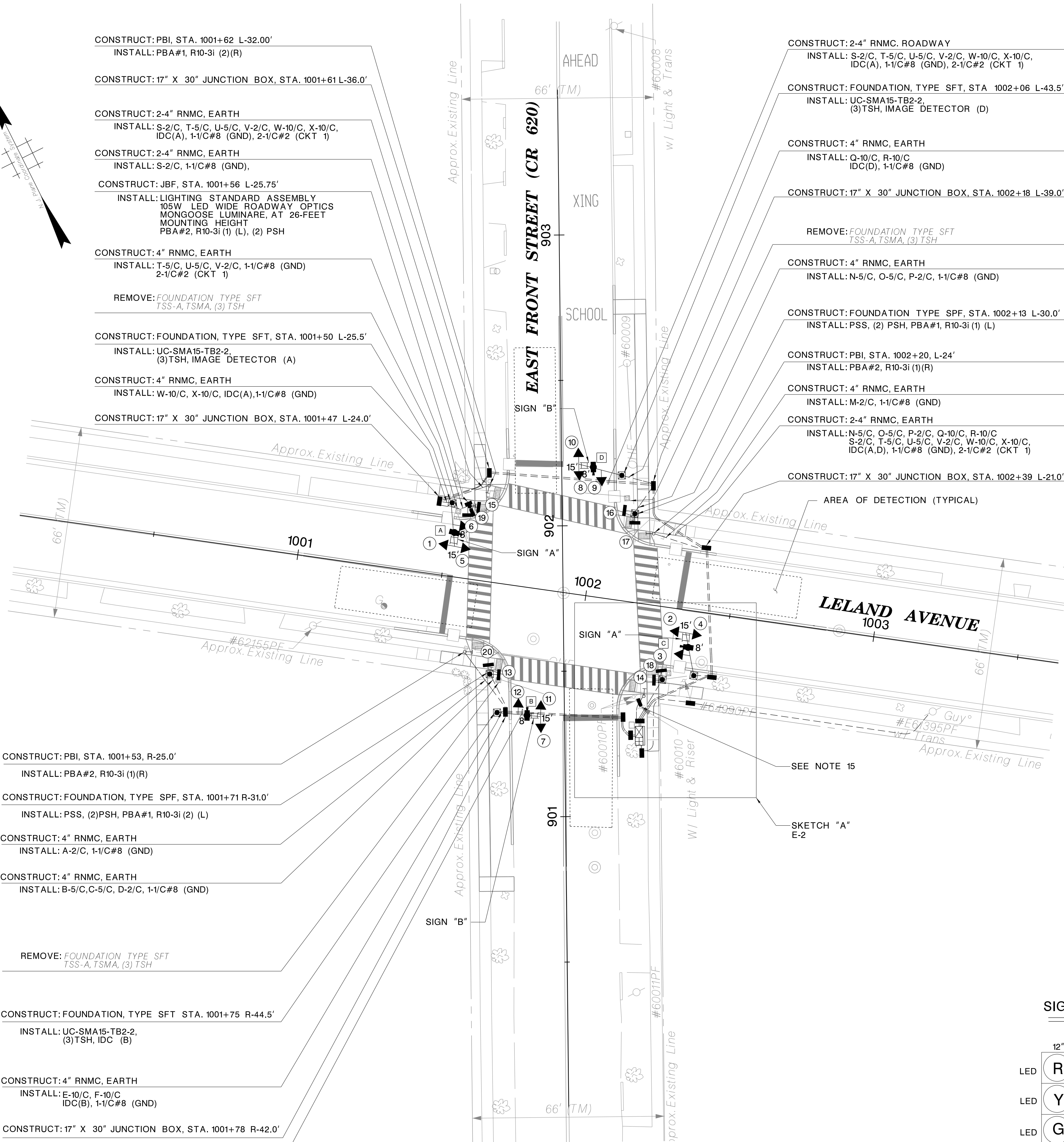
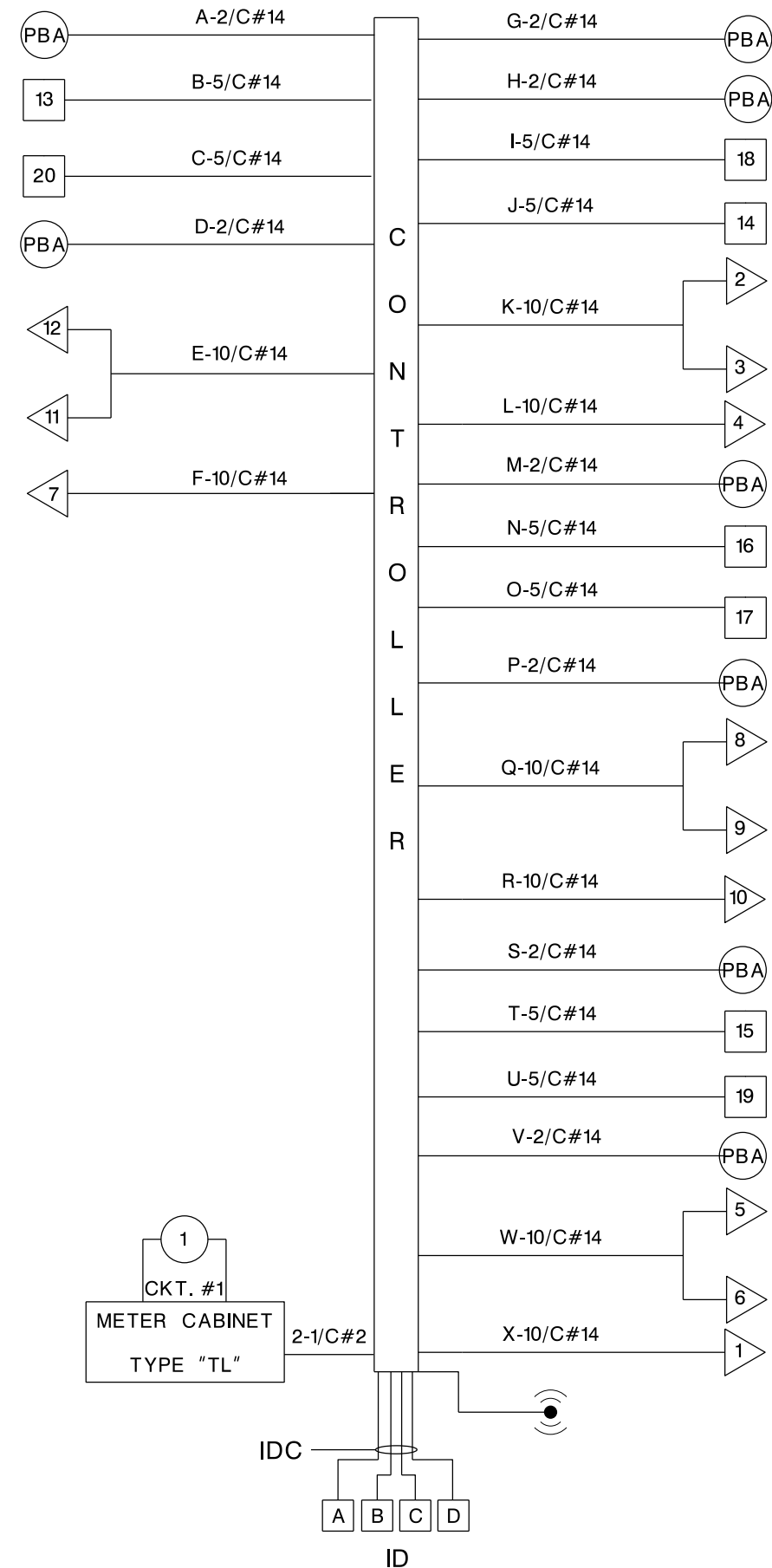
TRAFFIC CONTROL

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

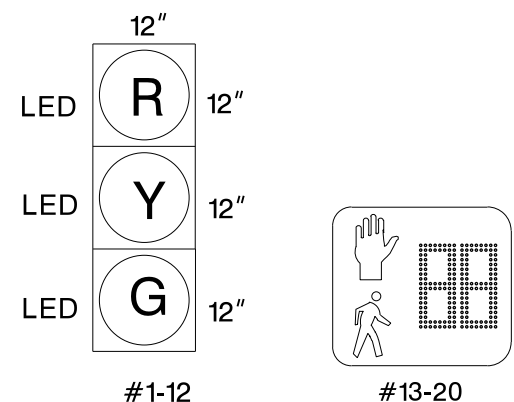
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CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

COUNTY OF UNION



- EXISTING ROW LINES ARE BASED ON TAX MAP INFORMATION.
- UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, UTILIZE "NJ ONE CALL" TO OBTAIN A FIELD MARKOUT OF SUBSURFACE UTILITIES FROM THE RESPECTIVE UTILITY COMPANIES AND AUTHORITIES.
- EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL UNTIL NEW TRAFFIC SIGNALS ARE INSTALLED AND FULLY OPERATIONAL. EXISTING TRAFFIC SIGNAL EQUIPMENT AND INFRASTRUCTURE, INCLUDING STANDARDS, MAST ARMS, FOUNDATIONS, JUNCTION BOXES, AND CONTROLLER CABINET SHALL THEN BE REMOVED.
- PRIOR TO THE START OF CONSTRUCTION, COORDINATE WITH OVERHEAD UTILITY OWNERS (COMMUNICATION AND POWER) SO THAT THE CONTRACT WORK, INCLUDING TRAFFIC SIGNAL EQUIPMENT TO BE CONSTRUCTED, COMPLIES WITH REQUIRED SAFETY AND CLEARANCE PROTOCOLS.
- THE SERVICE ENTRANCE CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, FROM A POINT 10 FEET ABOVE THE GROUND SURFACE AND EXTENDING FROM THERE TO THE VICINITY OF THE SECONDARY POWER LINES ON THE UTILITY POLE. RIGID NONMETALLIC SERVICE CONDUIT SHALL BE TERMINATED WITH A GOOSENECK-TYPE WEATHER TIGHT CABLE ENTRANCE AT ITS UPPER END. THE REMAINDER OF THE SERVICE ENTRANCE CONDUIT BETWEEN THE END OF RIGID NONMETALLIC CONDUIT AND THE METER CABINET SHALL BE RIGID METALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLAN.
- RIGID NONMETALLIC CONDUIT TO BE INSTALLED SHALL BE SCHEDULE 80.
- FOUNDATION AND JUNCTION BOXES SHOWN TO BE CONSTRUCTED IN AREAS WITHOUT EXISTING OR PROPOSED SIDEWALK SHALL BE CONSTRUCTED SO THAT THE TOPS OF THE FOUNDATIONS WILL BE AT GRADE AND THAT WILL LEAVE THEM 1" INCH ABOVE, AND THE TOPS OF THE JUNCTION BOXES FLUSH WITH ANY FUTURE SIDEWALK CONSTRUCTED ACCORDING TO NJDOT AND COUNTY STANDARDS. THE AREAS SURROUNDING SUCH FOUNDATIONS SHALL BE GRADED TO A MAXIMUM SLOPE OF 1 TO 4, LEAVING A 1" INCH REVEAL ABOVE FINISHED GRADE. IN NO CASE SHALL A FOUNDATION OR JUNCTION BOX BE CONSTRUCTED SO THAT IT WILL BE INUNDED BY STORM WATER RUNOFF.
- GROUND WIRE SHALL BE INSULATED (COLOR GREEN) AND OF THE GAUGE SHOWN ON THE PLAN, AND SHALL BE INSTALLED CONTINUOUSLY THROUGHOUT THE TRAFFIC SIGNAL SYSTEM. SECURE GROUND WIRE TO ALL GROUND RODS, CABINETS, TRAFFIC SIGNAL BASES, AND LIGHTING BASES.
- AREA OF IMAGE DETECTION SHALL EXTEND FROM 10' IN FRONT OF STOP BAR TO 40' BEHIND STOP BAR, AND SHALL BE OFFSET 1' FROM CURBS AND LANE LINES, UNLESS OTHERWISE NOTED.
- TRAFFIC SIGNALS MOUNTED ON MAST ARMS ALONG EAST FRONT STREET SHALL BE EQUIPPED WITH BACK PLATES.
- TRAFFIC SIGNAL CONTROLLER CABINET SHALL INCLUDE AUXILIARY GENERATOR HOOKUP AND TRANSFER SWITCH.
- WITH THE EXCEPTION OF PUSH BUTTON ASSEMBLIES, EXTERIOR ABOVE-GROUND TRAFFIC SIGNAL EQUIPMENT AND MOUNTING HARDWARE, INCLUDING THE CONTROLLER CABINET, METER CABINET, POLES, MAST ARMS, MAST ARM SIGN BRACKETS, SIGNAL HEADS, AND IMAGE DETECTORS SHALL BE POWDERED-COATED BLACK.
- PEDESTRIAN PUSH BUTTONS SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT, PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE FOLLOWING SHALL BE INCLUDED AS PART OF THE PUSH BUTTON ITEM:
A. A VIBRO-TACTILE BUTTON WITH RAISED ARROW
B. EXTENSION BRACKET TO ACCOMMODATE AN UNOBSTRUCTED HORIZONTAL REACH OF 10 INCHES OR LESS
- THE PUSH BUTTON SIGNS SHALL HAVE BRAILLE FEATURES.
- LED LIGHTING RETROFIT ON EXISTING UTILITY POLE, BY OTHERS, COORDINATE WITH THE CITY OF PLAINFIELD FOR PSE&G LED LIGHTING INSTALLATION.



COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

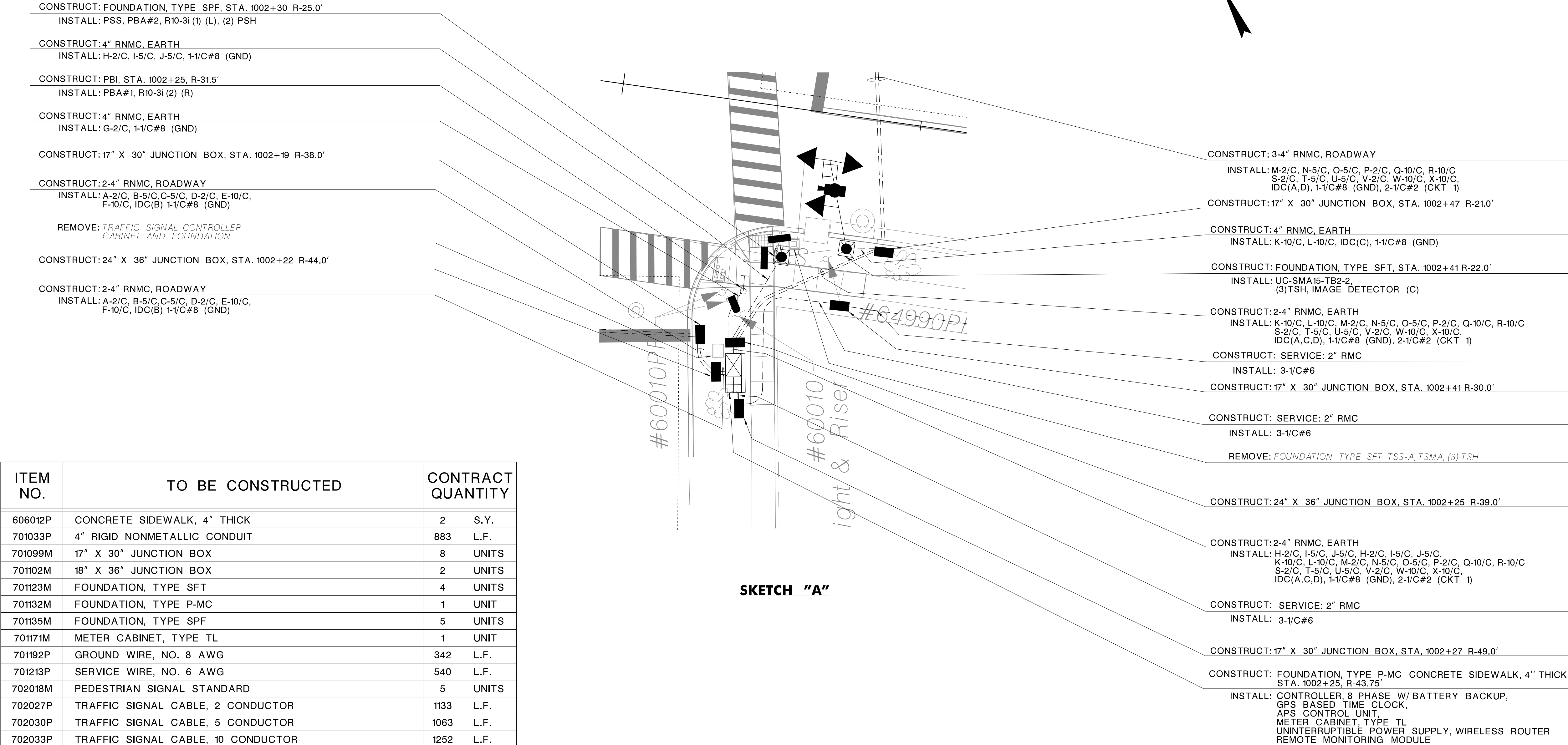
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

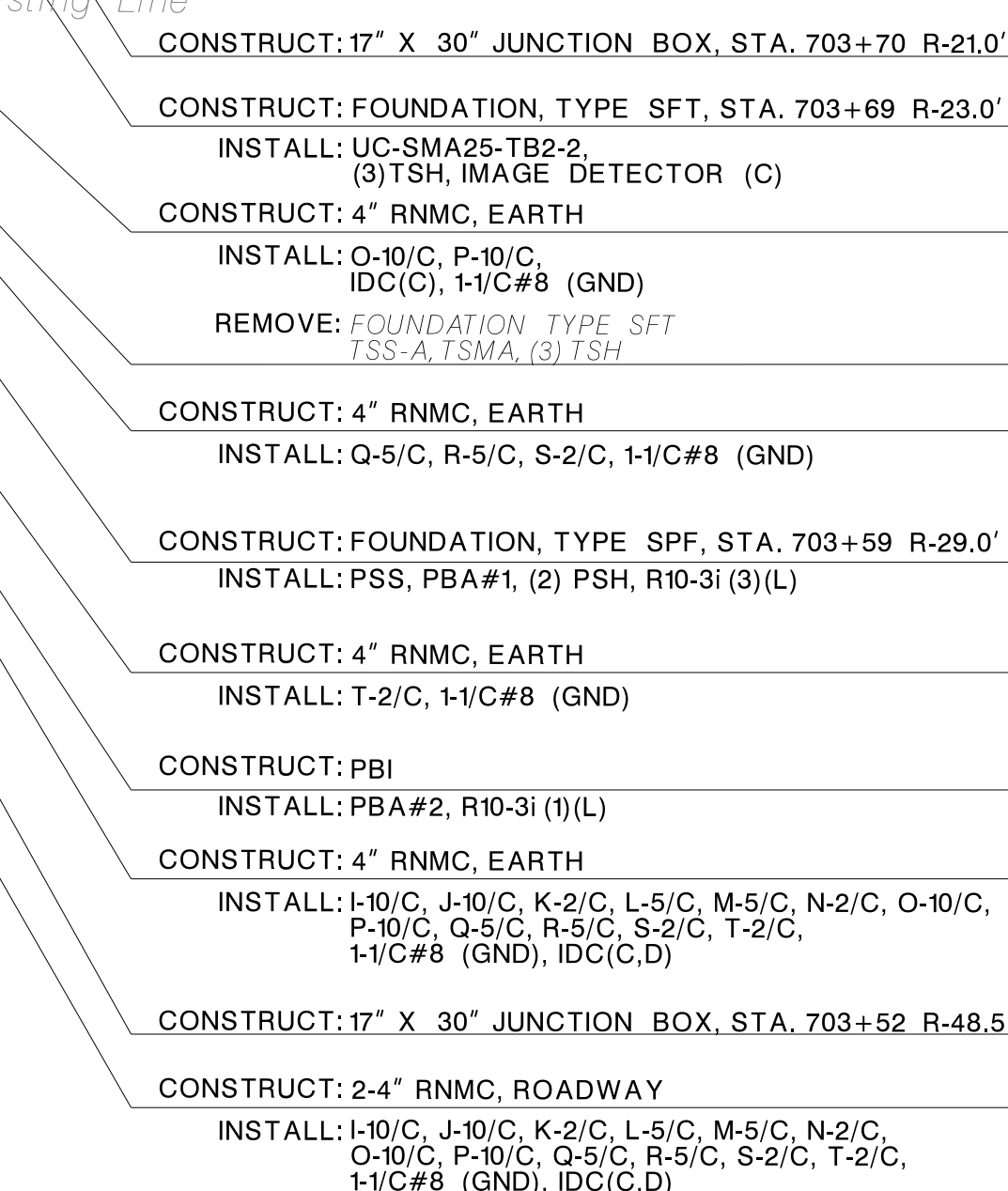
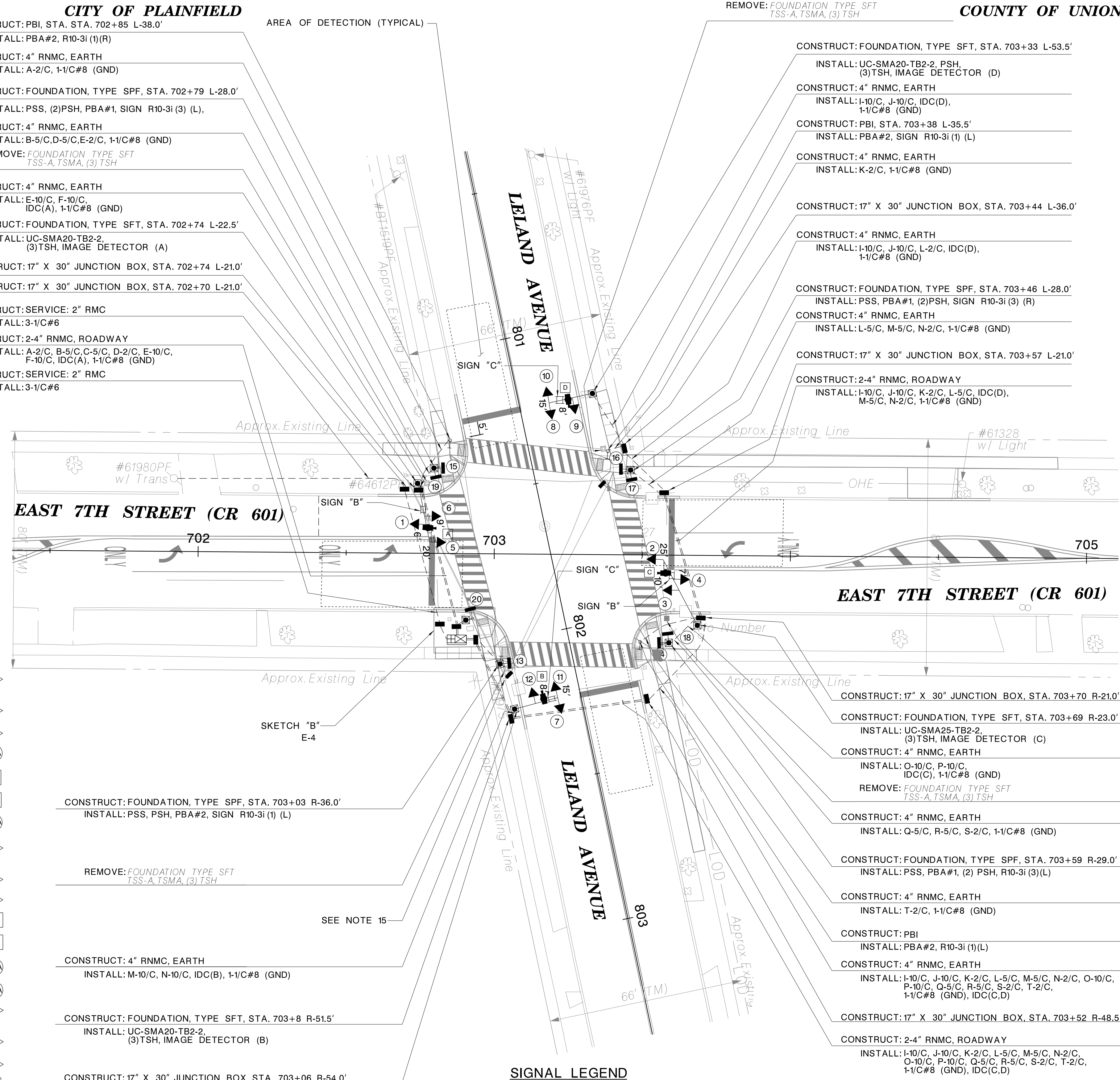
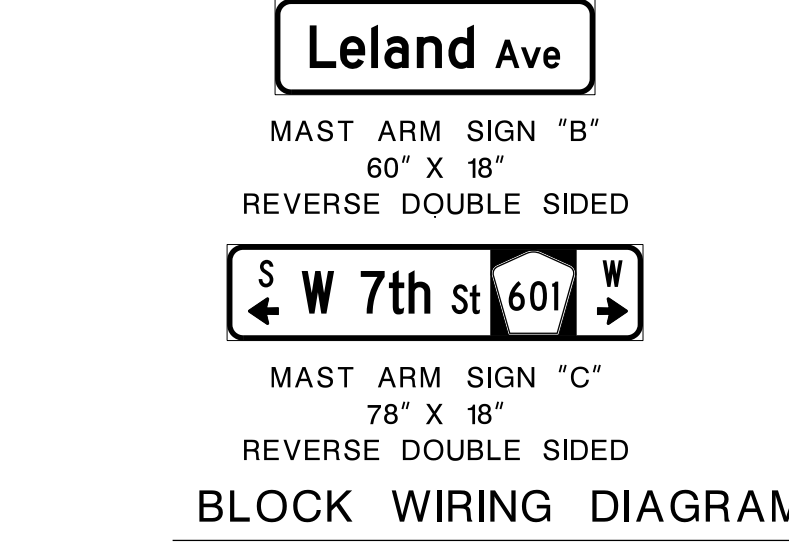


ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
606012P	CONCRETE SIDEWALK, 4" THICK	2 S.Y.
701033P	4" RIGID NONMETALLIC CONDUIT	883 L.F.
701099M	17" X 30" JUNCTION BOX	8 UNITS
701102M	18" X 36" JUNCTION BOX	2 UNITS
701123M	FOUNDATION, TYPE SFT	4 UNITS
701132M	FOUNDATION, TYPE P-MC	1 UNIT
701135M	FOUNDATION, TYPE SPF	5 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	342 L.F.
701213P	SERVICE WIRE, NO. 6 AWG	540 L.F.
702018M	PEDESTRIAN SIGNAL STANDARD	5 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	1133 L.F.
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	1063 L.F.
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1252 L.F.
702036M	TRAFFIC SIGNAL HEAD	12 UNITS
702038M	PUSH BUTTON INSTALLATION	3 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	8 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702059M	GPS UNIT	1 UNIT
702062M	APS CONTROL UNIT	1 UNIT
702101M	UNINTERRUPTIBLE POWER SUPPLY	1 UNIT
704084M	CONTROLLER, CTSS	1 UNIT
704090M	CONTROLLER, CTSS TURN ON	1 UNIT
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	2 UNITS
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	1 UNIT
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	1 UNIT



E-2
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL PLAN
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA279547300
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



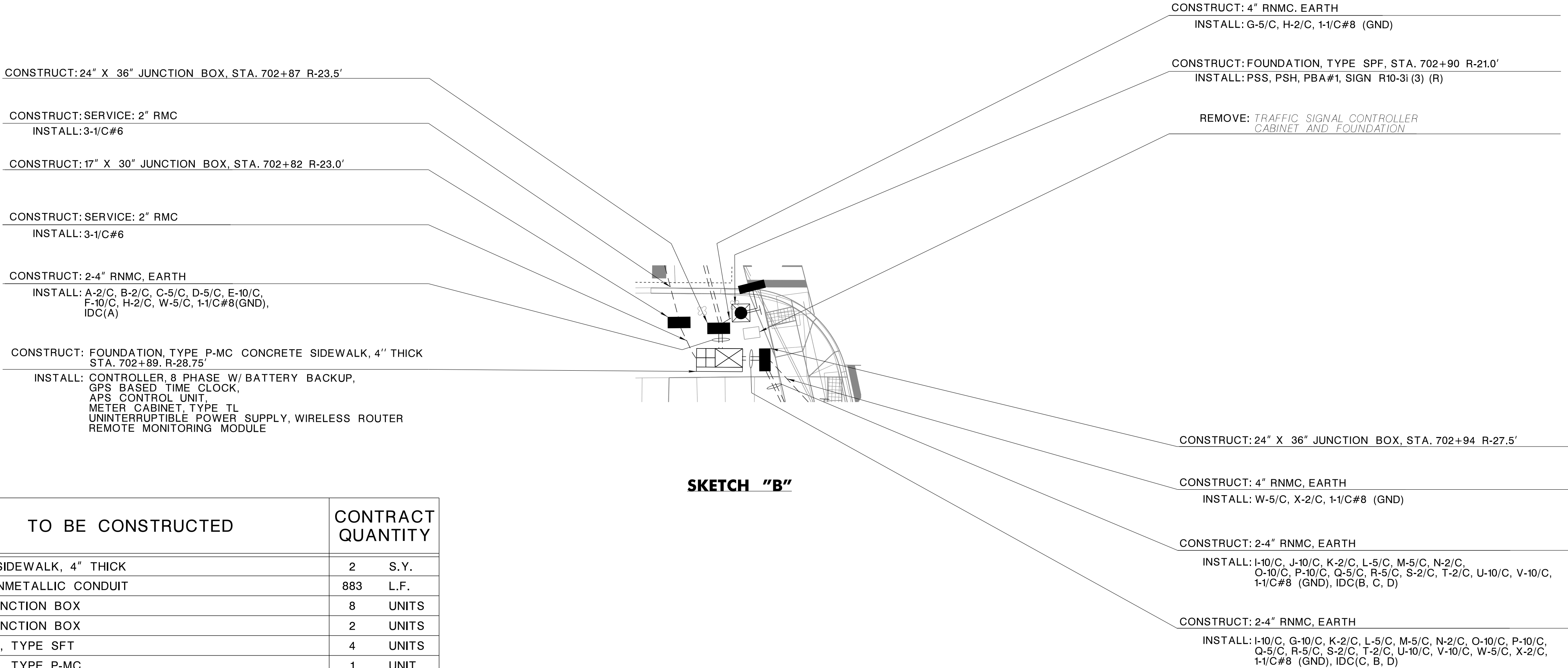
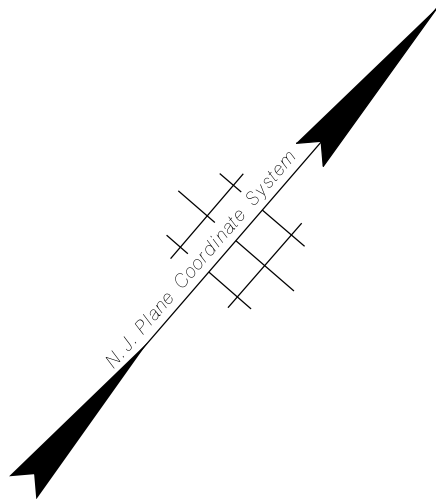
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
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701135M	FOUNDATION, TYPE SPF	5 UNITS
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N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	2 UNITS
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	1 UNIT
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	1 UNIT



E-4
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

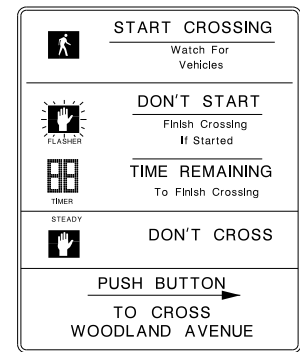
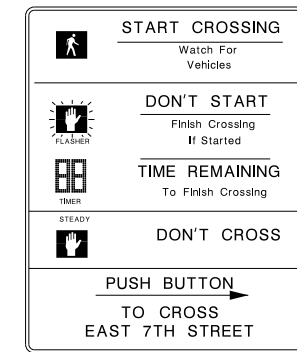
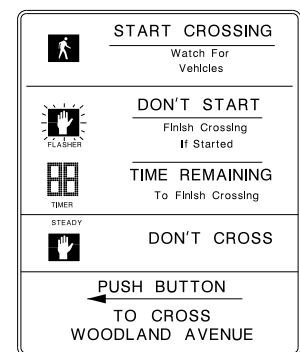
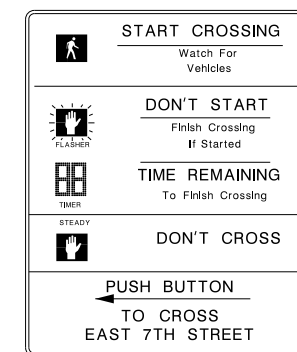
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

SIGN LEGEND

CITY OF PLAINFIELD

COUNTY OF UNION

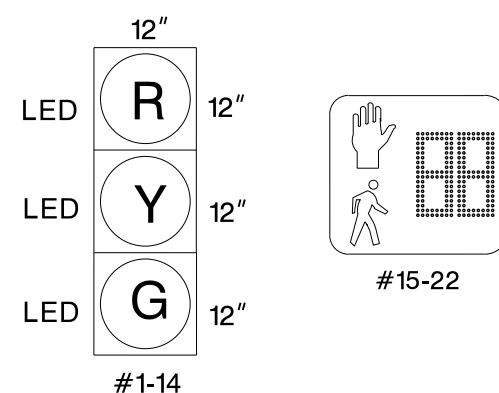


MAST ARM SIGN "C"
78" X 18"
REVERSE DOUBLE SIDED

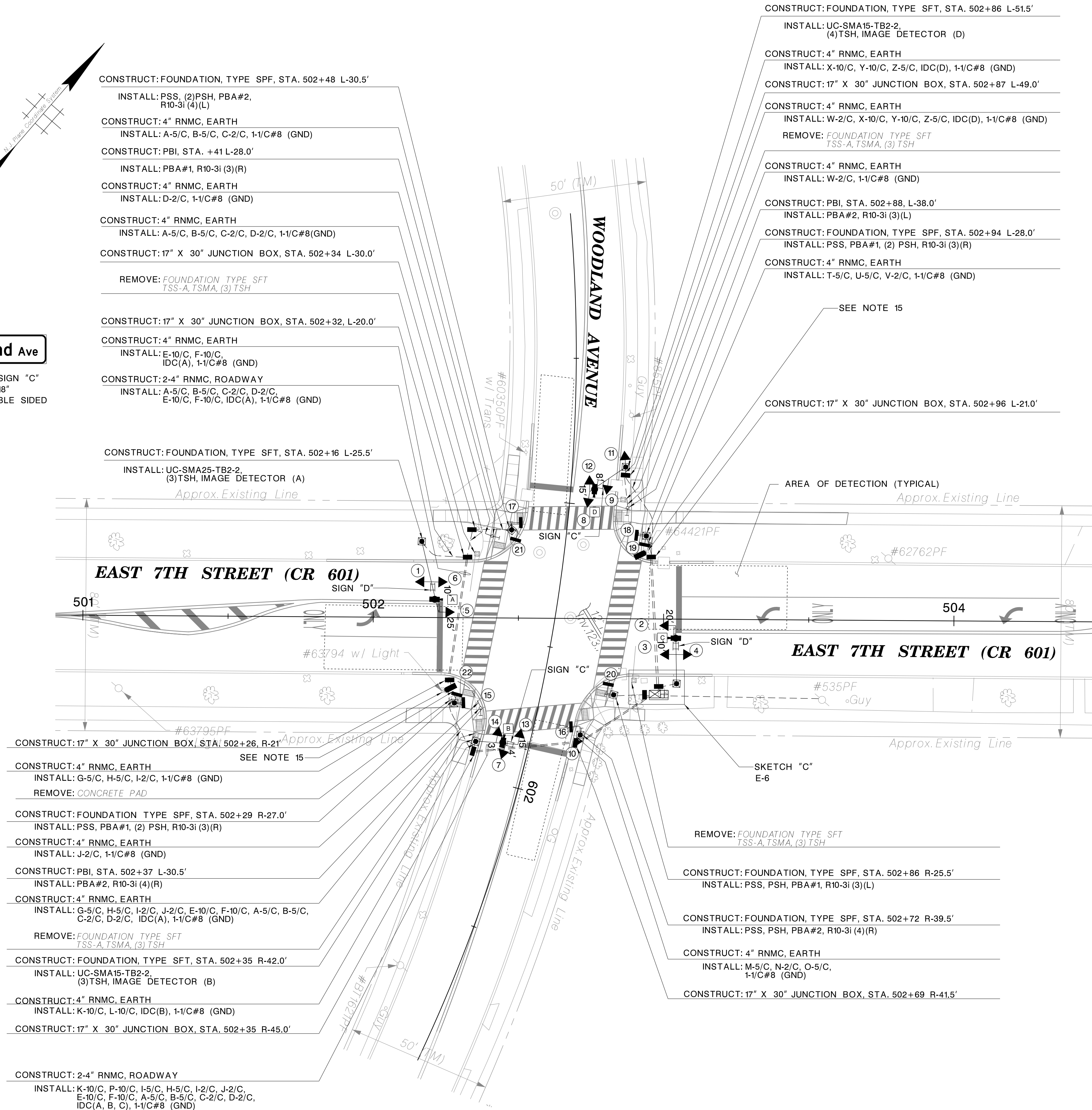
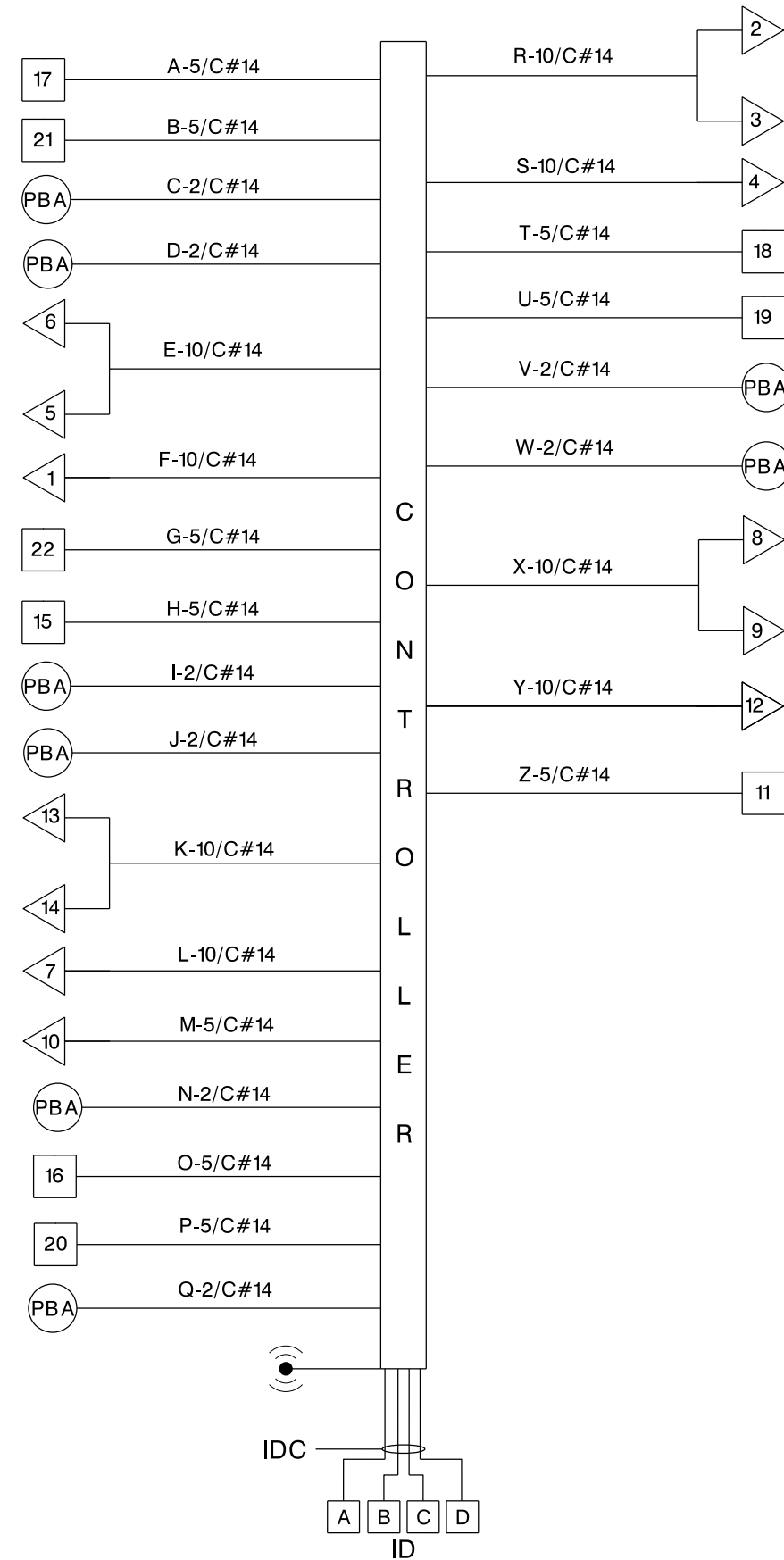


MAST ARM SIGN "C"
78" X 18"
REVERSE DOUBLE SIDED

SIGNAL LEGEND



BLOCK WIRING DIAGRAM



- NOTES:

1. EXISTING ROW LINES ARE BASED ON TAX MAP INFORMATION.
2. UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, UTILIZE "NJ ONE CALL" TO OBTAIN A FIELD MARKOUT OF SUBSURFACE UTILITIES FROM THE RESPECTIVE UTILITY COMPANIES AND AUTHORITIES.
3. EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL UNTIL NEW TRAFFIC SIGNALS ARE INSTALLED AND FULLY OPERATIONAL. EXISTING TRAFFIC SIGNAL EQUIPMENT AND INFRASTRUCTURE, INCLUDING STANDARDS, MAST ARMS, FOUNDATIONS, JUNCTION BOXES, AND CONTROLLER CABINET SHALL THEN BE REMOVED.
4. PRIOR TO THE START OF CONSTRUCTION, COORDINATE WITH OVERHEAD UTILITY OWNERS (COMMUNICATION AND POWER) SO THAT THE CONTRACT WORK, INCLUDING TRAFFIC SIGNAL EQUIPMENT TO BE CONSTRUCTED, COMPLIES WITH REQUIRED SAFETY AND CLEARANCE PROTOCOLS.
5. THE SERVICE ENTRANCE CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, FROM A POINT 10 FEET ABOVE THE GROUND SURFACE AND EXTENDING FROM THERE TO THE VICINITY OF THE SECONDARY POWER LINES ON THE UTILITY POLE. RIGID NONMETALLIC SERVICE CONDUIT SHALL BE TERMINATED WITH A GOOSENECK-TYPE WEATHER TIGHT CABLE ENTRANCE AT ITS UPPER END. THE REMAINDER OF THE SERVICE ENTRANCE CONDUIT BETWEEN THE END OF RIGID NONMETALLIC CONDUIT AND THE METER CABINET SHALL BE RIGID METALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLAN.
6. RIGID NONMETALLIC CONDUIT TO BE INSTALLED SHALL BE SCHEDULE 80.
7. FOUNDATION AND JUNCTION BOXES SHOWN TO BE CONSTRUCTED IN AREAS WITHOUT EXISTING OR PROPOSED SIDEWALK SHALL BE CONSTRUCTED SO THAT THE TOPS OF THE FOUNDATIONS WILL BE AT GRADE AND THAT WILL LEAVE THEM 1"CH ABOVE, AND THE TOPS OF THE JUNCTION BOXES FLUSH WITH ANY FUTURE SIDEWALK CONSTRUCTED ACCORDING TO NJDOT AND COUNTY STANDARDS. THE AREAS SURROUNDING SUCH FOUNDATIONS SHALL BE GRADED TO A MAXIMUM SLOPE OF 1 TO 4, LEAVING A 1"CH REVEAL ABOVE FINISHED GRADE. IN NO CASE SHALL A FOUNDATION OR JUNCTION BOX BE CONSTRUCTED SO THAT IT WILL BE INUNDATED BY STORM WATER RUNOFF.
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9. AREA OF IMAGE DETECTION SHALL EXTEND FROM 10' IN FRONT OF STOP BAR TO 40' BEHIND STOP BAR, AND SHALL BE OFFSET 1' FROM CURBS AND LANE LINES, UNLESS OTHERWISE NOTED.
10. TRAFFIC SIGNALS MOUNTED ON MAST ARMS ALONG EAST SEVENTH STREET SHALL BE EQUIPPED WITH BACK PLATES.
11. TRAFFIC SIGNAL CONTROLLER CABINET SHALL INCLUDE AUXILIARY GENERATOR HOOKUP AND TRANSFER SWITCH.
12. WITH THE EXCEPTION OF PUSH BUTTON ASSEMBLIES, EXTERIOR ABOVE-GROUND TRAFFIC SIGNAL EQUIPMENT AND MOUNTING HARDWARE, INCLUDING THE CONTROLLER CABINET, METER CABINET, POLES, MAST ARMS, MAST ARM SIGN BRACKETS, SIGNAL HEADS, AND IMAGE DETECTORS SHALL BE POWDERED-COATED BLACK.
13. PEDESTRIAN PUSH BUTTONS SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE FOLLOWING SHALL BE INCLUDED AS PART OF THE PUSH BUTTON ITEM:
 - A. A VIBRO-TACTILE BUTTON WITH RAISED ARROW
 - B. EXTENSION BRACKET TO ACCOMMODATE AN UNOBSTRUCTED HORIZONTAL REACH OF 10 INCHES OR LESS
14. THE PUSH BUTTON SIGNS SHALL HAVE BRAILLE FEATURES.
15. LED LIGHTING RETROFIT ON EXISTING UTILITY POLE, BY OTHERS, COORDINATE WITH THE CITY OF PLAINFIELD FOR PSE&G LED LIGHTING INSTALLATION.

B. EXTENSION BRACKET TO ACCOMMODATE AN UNOBSTRUCTED HORIZONTAL REACH OF 10 INCHES OR LESS

14. THE PUSH BUTTON SIGNS SHALL HAVE BRAILLE FEATURES.
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5

E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

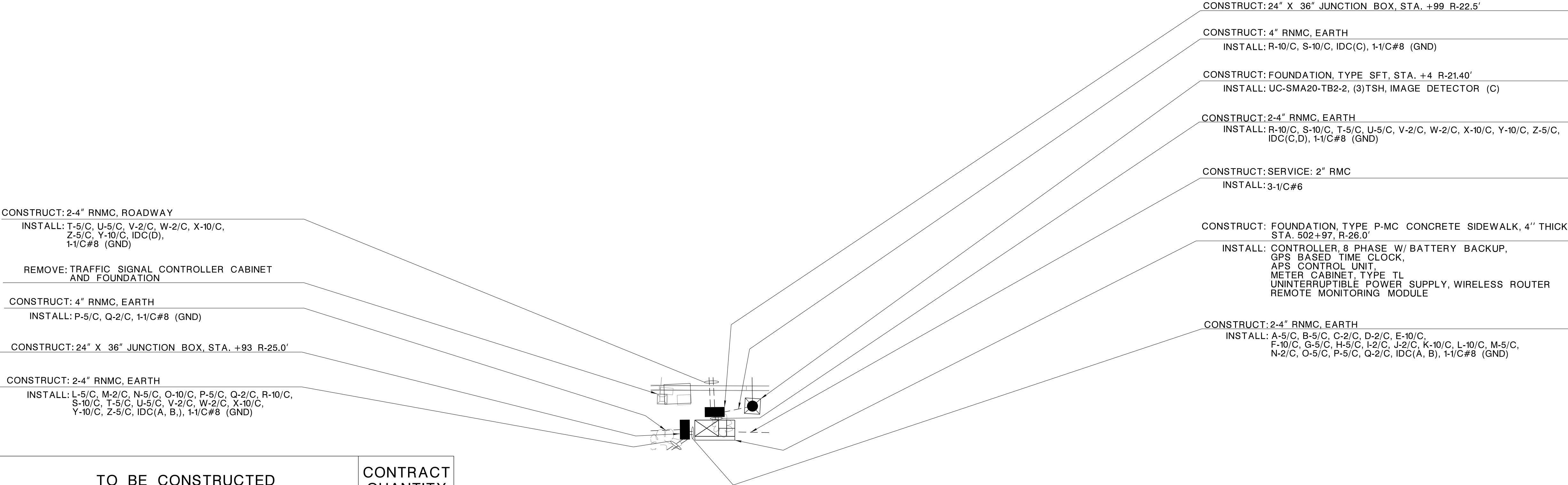
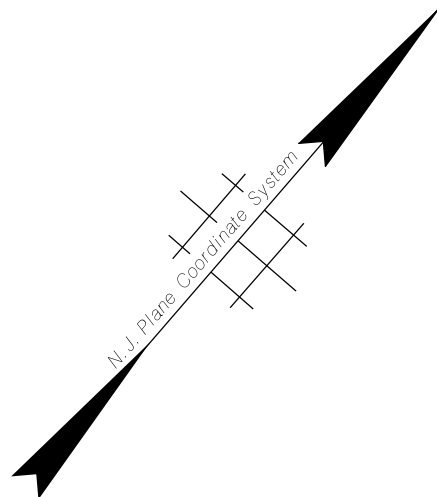
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
606012P	CONCRETE SIDEWALK, 4" THICK	2 S.Y.
701033P	4" RIGID NONMETALLIC CONDUIT	457 L.F.
701099M	17" X 30" JUNCTION BOX	7 UNITS
701102M	18" X 36" JUNCTION BOX	2 UNITS
701123M	FOUNDATION, TYPE SFT	4 UNITS
701132M	FOUNDATION, TYPE P-MC	1 UNIT
701135M	FOUNDATION, TYPE SPF	5 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	294 L.F.
701213P	SERVICE WIRE, NO. 6 AWG	240 L.F.
702018M	PEDESTRIAN SIGNAL STANDARD	5 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	1121 L.F.
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	1293 L.F.
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1048 L.F.
702036M	TRAFFIC SIGNAL HEAD	14 UNITS
702038M	PUSH BUTTON INSTALLATION	3 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	8 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702059M	GPS UNIT	1 UNIT
702062M	APS CONTROL UNIT	1 UNIT
702101M	UNINTERRUPTIBLE POWER SUPPLY	1 UNIT
704084M	CONTROLLER, CTSS	1 UNIT
704090M	CONTROLLER, CTSS TURN ON	1 UNIT
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	2 UNITS
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	1 UNIT
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	1 UNIT

SKETCH "C"



E-6
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
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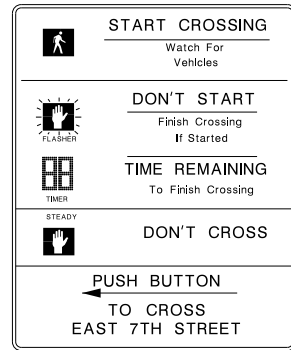
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STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

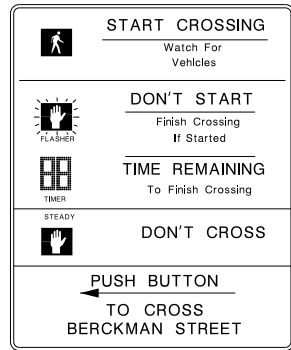
CITY OF PLAINFIELD

COUNTY OF UNION

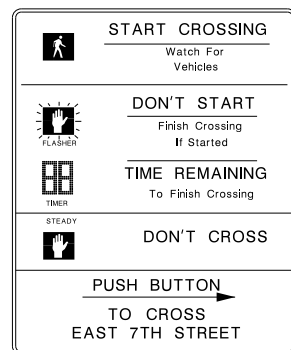
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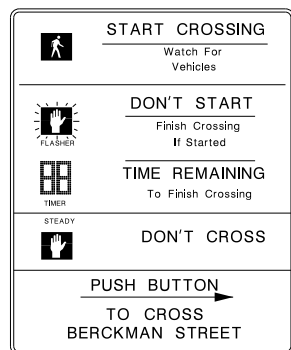
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9' x 15'

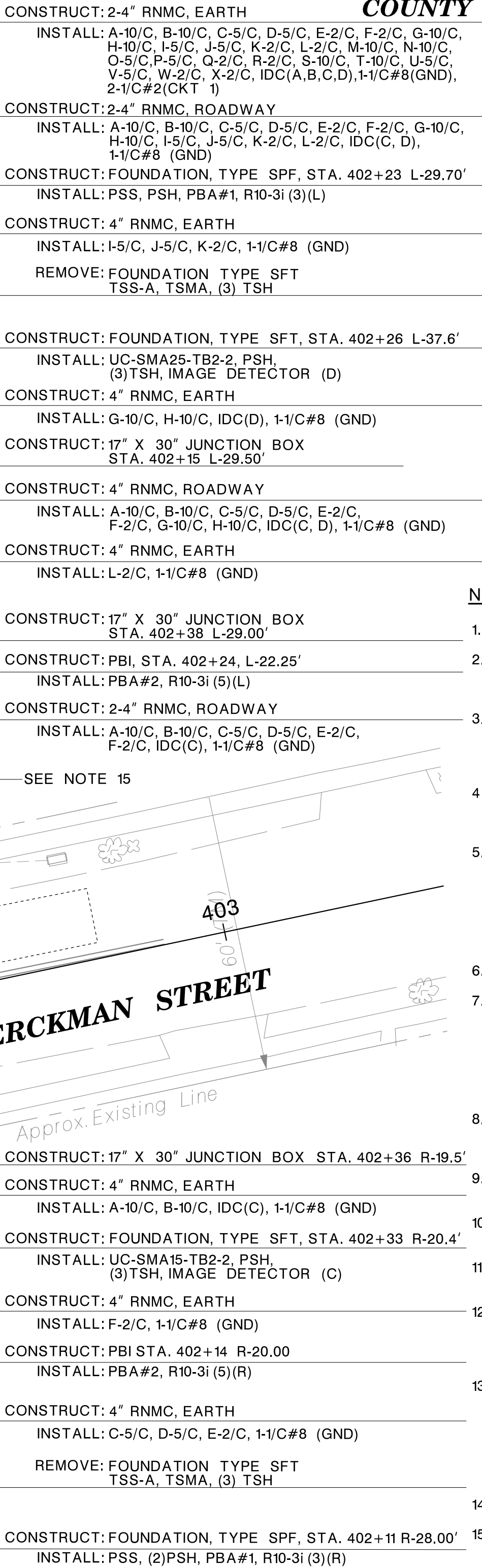
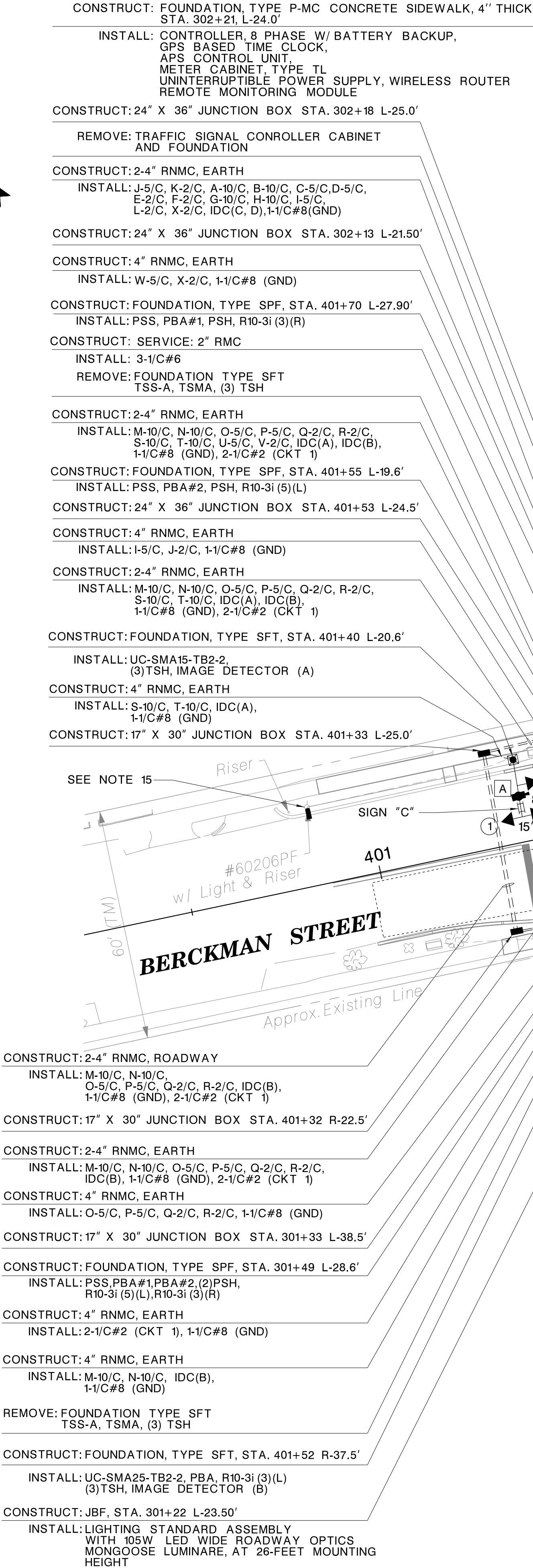
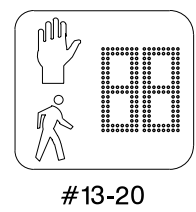
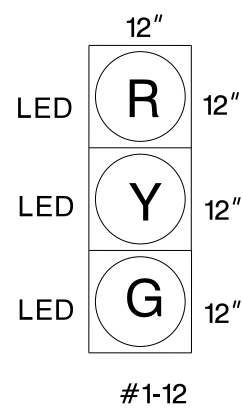


MAST ARM SIGN "C"
78" x 18"
REVERSE DOUBLE SIDED



MAST ARM SIGN "E"
66" x 18"
DOUBLE SIDED

SIGNAL LEGEND



NOTES:

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- THE SERVICE ENTRANCE CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, FROM A POINT 10 FEET ABOVE THE GROUND SURFACE AND EXTENDING FROM THERE TO THE VICINITY OF THE SECONDARY POWER LINES ON THE UTILITY POLE. RIGID NONMETALLIC SERVICE CONDUIT SHALL BE TERMINATED WITH A GOOSENECK-TYPE WEATHER TIGHT CABLE ENTRANCE AT ITS UPPER END. THE REMAINDER OF THE SERVICE ENTRANCE CONDUIT BETWEEN THE END OF RIGID NONMETALLIC CONDUIT AND THE METER CABINET SHALL BE RIGID METALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLAN.
- RIGID NONMETALLIC CONDUIT TO BE INSTALLED SHALL BE SCHEDULE 80.
- FOUNDATION AND JUNCTION BOXES SHOWN TO BE CONSTRUCTED IN AREAS WITHOUT EXISTING OR PROPOSED SIDEWALK SHALL BE CONSTRUCTED SO THAT THE TOPS OF THE FOUNDATIONS WILL BE AT GRADE AND THAT WILL LEAVE THEM 1 INCH ABOVE AND THE TOPS OF THE JUNCTION BOXES FLUSH WITH ANY FUTURE SIDEWALK CONSTRUCTED ACCORDING TO NJDOT AND COUNTY STANDARDS. THE AREAS SURROUNDING SUCH FOUNDATIONS SHALL BE GRADED TO A MAXIMUM SLOPE OF 1 TO 4, LEAVING A 1-INCH REVEAL ABOVE FINISHED GRADE. IN NO CASE SHALL A FOUNDATION OR JUNCTION BOX BE CONSTRUCTED SO THAT IT WILL BE INUNDATED BY STORM WATER RUNOFF.
- GROUND WIRE SHALL BE INSULATED (COLOR GREEN) AND OF THE GAUGE SHOWN ON THE PLAN, AND SHALL BE INSTALLED CONTINUOUSLY THROUGHOUT THE TRAFFIC SIGNAL SYSTEM. SECURE GROUND WIRE TO ALL GROUND RODS, CABINETS, TRAFFIC SIGNAL BASES, AND LIGHTING BASES.
- AREA OF IMAGE DETECTION SHALL EXTEND FROM 10' IN FRONT OF STOP BAR TO 40' BEHIND STOP BAR, AND SHALL BE OFFSET 1' FROM CURBS AND LANE LINES, UNLESS OTHERWISE NOTED.
- TRAFFIC SIGNALS MOUNTED ON MAST ARMS ALONG EAST SEVENTH STREET SHALL BE EQUIPPED WITH BACK PLATES.
- TRAFFIC SIGNAL CONTROLLER CABINET SHALL INCLUDE AUXILIARY GENERATOR HOOKUP AND TRANSFER SWITCH.
- WITH THE EXCEPTION OF PUSH BUTTON ASSEMBLIES, EXTERIOR ABOVE-GROUND TRAFFIC SIGNAL EQUIPMENT AND MOUNTING HARDWARE, INCLUDING THE CONTROLLER CABINET, METER CABINET, TRAFFIC SIGNAL AND LIGHTING POLES, MAST ARMS, MAST ARM SIGN BRACKETS, SIGNAL HEADS, AND IMAGE DETECTORS SHALL BE POWDERED-COATED BLACK.
- PEDESTRIAN PUSH BUTTONS SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE FOLLOWING SHALL BE INCLUDED AS PART OF THE PUSH BUTTON ITEM:
A. A VIBRO-TACTILE BUTTON WITH RAISED ARROW
B. EXTENSION BRACKET TO ACCOMMODATE AN UNOBSTRUCTED HORIZONTAL REACH OF 10 INCHES OR LESS
- THE PUSH BUTTON SIGNS SHALL HAVE BRAILLE FEATURES.
- LED LIGHTING RETROFIT ON EXISTING UTILITY POLE, BY OTHERS, COORDINATE WITH THE CITY OF PLAINFIELD FOR PSE&G LED LIGHTING INSTALLATION.



E-7
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

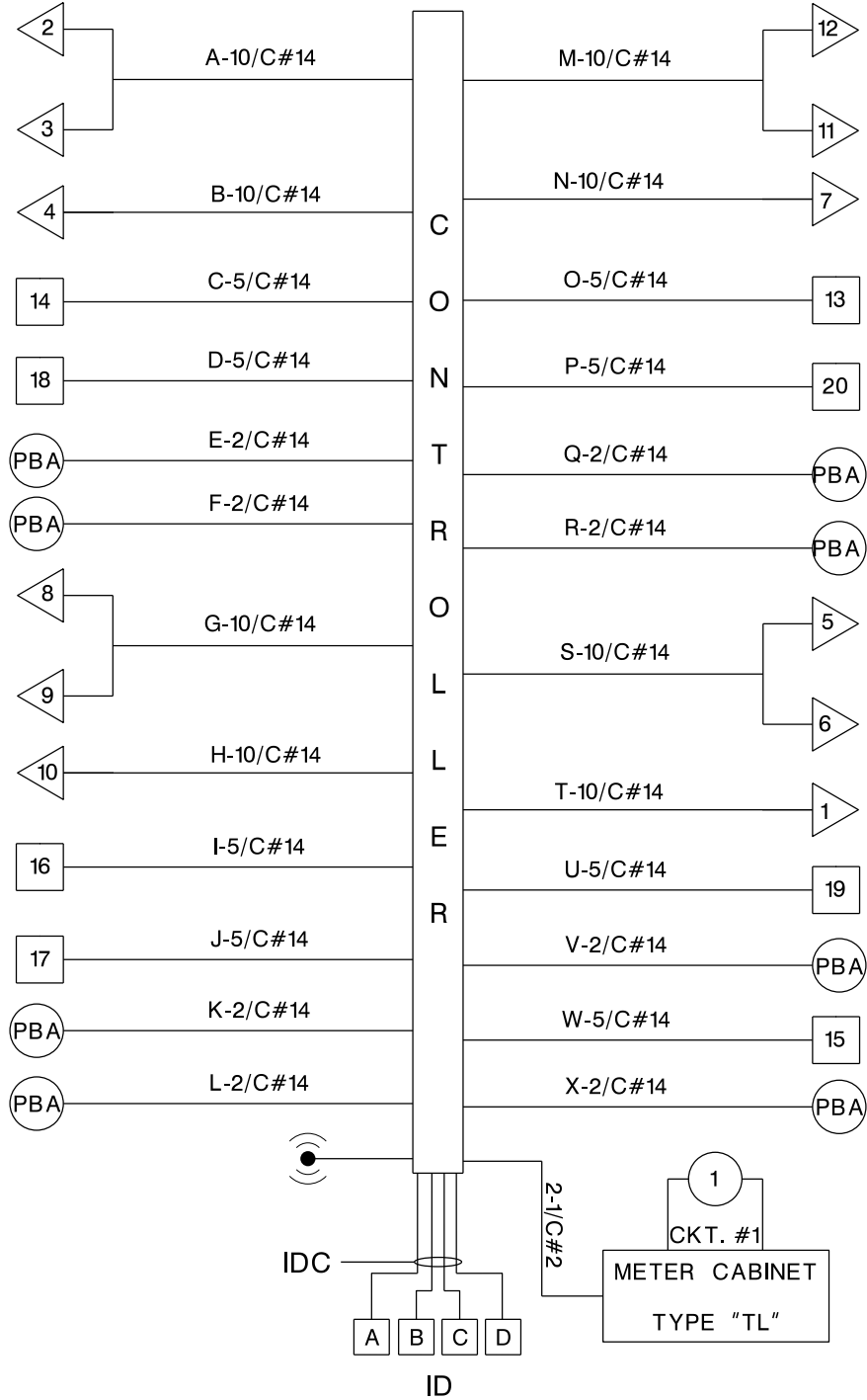
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

BLOCK WIRING DIAGRAM



ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
606012P	CONCRETE SIDEWALK, 4" THICK	2 S.Y.
701033P	4" RIGID NONMETALLIC CONDUIT	572 L.F.
701099M	17" X 30" JUNCTION BOX	5 UNITS
701102M	18" X 36" JUNCTION BOX	3 UNITS
701117M	JUNCTION BOX FOUNDATION	1 UNIT
701123M	FOUNDATION, TYPE SFT	4 UNITS
701132M	FOUNDATION, TYPE P-MC	1 UNIT
701135M	FOUNDATION, TYPE SPF	5 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	342 L.F.
701210P	SERVICE WIRE, NO. 2 AWG	400 L.F.
701213P	SERVICE WIRE, NO. 6 AWG	390 L.F.
702018M	PEDESTRIAN SIGNAL STANDARD	5 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	1182 L.F.
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	1141 L.F.
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1328 L.F.
702036M	TRAFFIC SIGNAL HEAD	12 UNITS
702038M	PUSH BUTTON INSTALLATION	2 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	8 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702059M	GPS UNIT	1 UNIT
702062M	APS CONTROL UNIT	1 UNIT
702101M	UNINTERRUPTIBLE POWER SUPPLY	1 UNIT
703003M	LIGHTING STANDARD ALUMINUM	1 UNIT
703012M	LIGHTING MAST ARM ALUMINUM	1 UNIT
703018M	LUMINAIRE	1 UNIT
704084M	CONTROLLER, CTSS	1 UNIT
704090M	CONTROLLER, CTSS TURN ON	1 UNIT
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	2 UNITS
N99993M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA25	2 UNITS



E-8
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

40

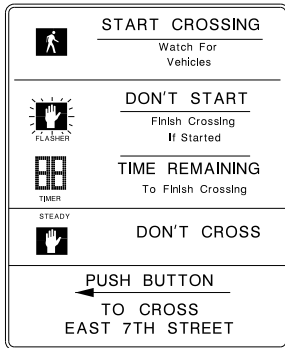
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DATE & TIME: 14-SEP-2022 14:44
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CITY OF PLAINFIELD

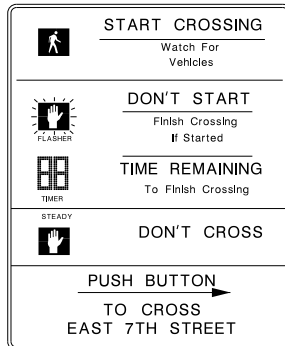
COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

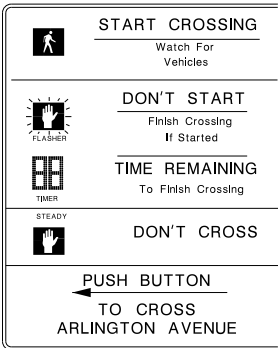
SIGN LEGEND



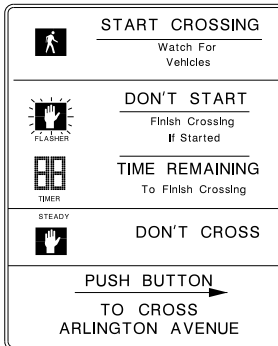
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9' x 15'



R10-3i(6)(R)
9' x 15'



R10-3i(7)(L)
9' x 15'



R10-3i(7)(R)
9' x 15'

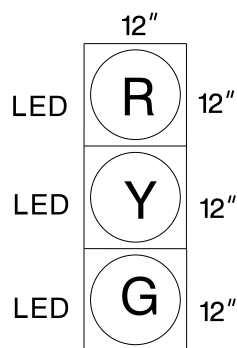
Arlington Ave

MAST ARM SIGN "G"
72" X 18"
DOUBLE SIDED

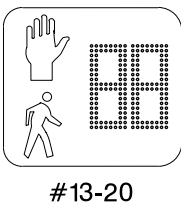


MAST ARM SIGN "F"
78" X 18"
REVERSE DOUBLE SIDED

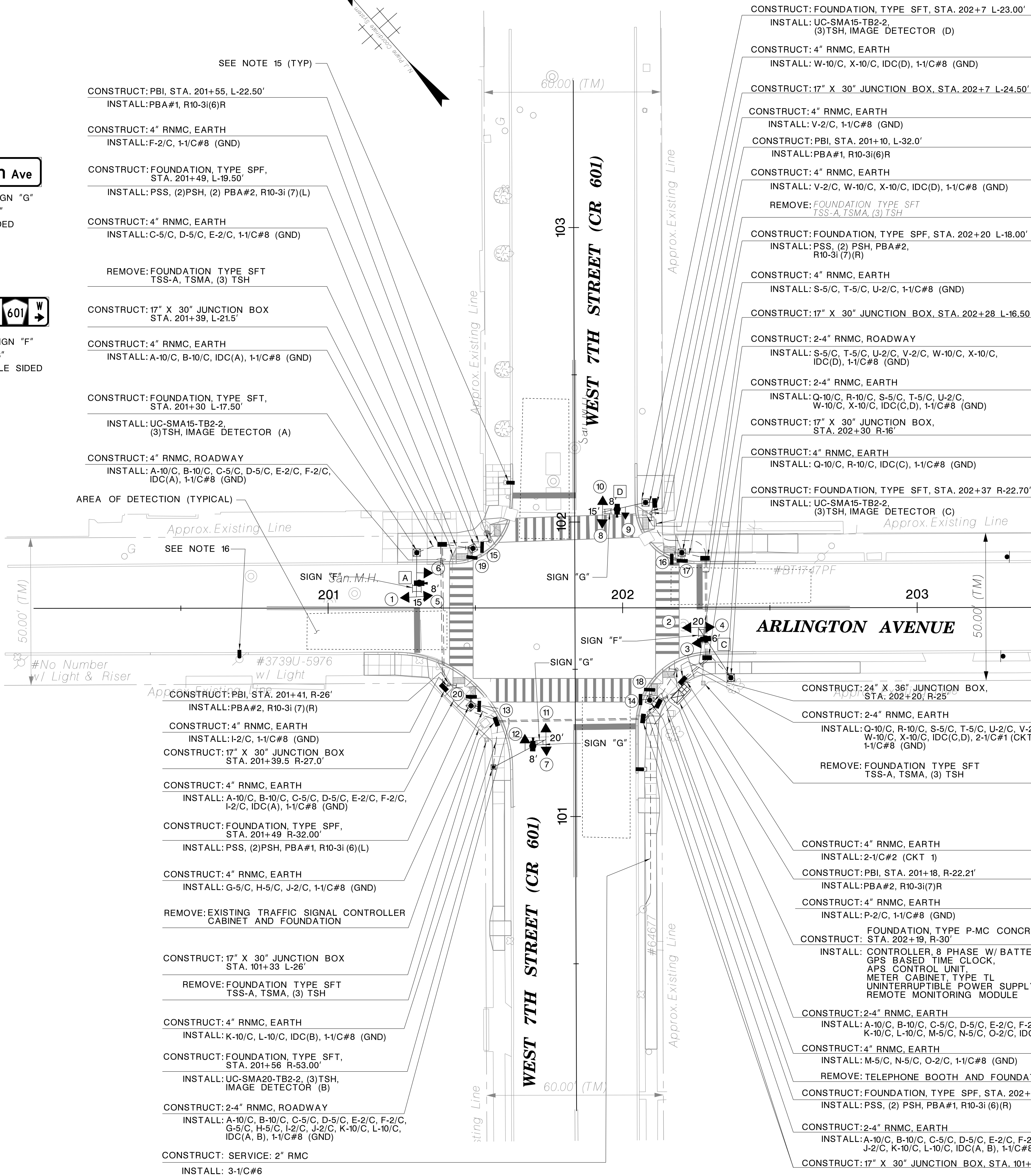
SIGNAL LEGEND



#1-12



#13-20



NOTES:

- EXISTING ROW LINES ARE BASED ON TAX MAP INFORMATION.
- UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE. PRIOR TO CONSTRUCTION, UTILIZE "NJ ONE CALL" TO OBTAIN A FIELD MARKOUT OF SUBSURFACE UTILITIES FROM THE RESPECTIVE UTILITY COMPANIES AND AUTHORITIES.
- EXISTING TRAFFIC SIGNALS SHALL REMAIN OPERATIONAL UNTIL NEW TRAFFIC SIGNALS ARE INSTALLED AND FULLY OPERATIONAL. EXISTING TRAFFIC SIGNAL EQUIPMENT AND INFRASTRUCTURE, INCLUDING STANDARDS, MAST ARMS, FOUNDATIONS, JUNCTION BOXES, AND CONTROLLER CABINET SHALL THEN BE REMOVED. WHERE EXISTING SIGNALS CANNOT REMAIN IN OPERATION, UTILIZE TEMPORARY SIGNALS.
- PRIOR TO THE START OF CONSTRUCTION, COORDINATE WITH OVERHEAD UTILITY OWNERS (COMMUNICATION AND POWER) SO THAT THE CONTRACT WORK, INCLUDING TRAFFIC SIGNAL EQUIPMENT TO BE CONSTRUCTED, COMPLIES WITH REQUIRED SAFETY AND CLEARANCE PROTOCOLS.
- THE SERVICE ENTRANCE CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, FROM A POINT 10 FEET ABOVE THE GROUND SURFACE AND EXTENDING FROM THERE TO THE VICINITY OF THE SECONDARY POWER LINES ON THE UTILITY POLE. RIGID NONMETALLIC SERVICE CONDUIT SHALL BE TERMINATED WITH A GOOSENECK-TYPE WEATHER TIGHT CABLE ENTRANCE AT ITS UPPER END. THE REMAINDER OF THE SERVICE ENTRANCE CONDUIT BETWEEN THE END OF RIGID NONMETALLIC CONDUIT AND THE METER CABINET SHALL BE RIGID METALLIC CONDUIT OF THE DIAMETER SHOWN ON THE PLAN.
- RIGID NONMETALLIC CONDUIT TO BE INSTALLED SHALL BE SCHEDULE 80.
- FOUNDATION AND JUNCTION BOXES SHOWN TO BE CONSTRUCTED IN AREAS WITHOUT EXISTING OR PROPOSED SIDEWALK SHALL BE CONSTRUCTED SO THAT THE TOPS OF THE FOUNDATIONS WILL BE AT GRADE AND THAT WILL LEAVE THEM 1 INCH ABOVE, AND THE TOPS OF THE JUNCTION BOXES FLUSH WITH ANY FUTURE SIDEWALK. CONSTRUCTION SHALL BE ACCORDING TO NJDOT AND COUNTY STANDARDS. THE AREAS SURROUNDING SUCH FOUNDATIONS SHALL BE GRADED TO A MAXIMUM SLOPE OF 1 TO 4, LEAVING A 1-INCH REVEAL ABOVE FINISHED GRADE. IN NO CASE SHALL A FOUNDATION OR JUNCTION BOX BE CONSTRUCTED SO THAT IT WILL BE INUNDATED BY STORM WATER RUNOFF.
- GROUND WIRE SHALL BE INSULATED (COLOR GREEN) AND OF THE GAUGE SHOWN ON THE PLAN, AND SHALL BE INSTALLED CONTINUOUSLY THROUGHOUT THE TRAFFIC SIGNAL SYSTEM. SECURE GROUND WIRE TO ALL GROUND RODS, CABINETS, TRAFFIC SIGNAL BASES, AND LIGHTING BASES.
- AREA OF IMAGE DETECTION SHALL EXTEND FROM 10' IN FRONT OF STOP BAR TO 40' BEHIND STOP BAR, AND SHALL BE OFFSET 1' FROM CURBS AND LANE LINES, UNLESS OTHERWISE NOTED.
- TRAFFIC SIGNALS MOUNTED ON MAST ARMS ALONG EAST SEVENTH STREET SHALL BE EQUIPPED WITH BACK PLATES.
- TRAFFIC SIGNAL CONTROLLER CABINET SHALL INCLUDE AUXILIARY GENERATOR HOOKUP AND TRANSFER SWITCH.
- WITH THE EXCEPTION OF PUSH BUTTON ASSEMBLIES, EXTERIOR ABOVE-GROUND TRAFFIC SIGNAL EQUIPMENT AND MOUNTING HARDWARE, INCLUDING THE CONTROLLER CABINET, METER CABINET, TRAFFIC SIGNAL AND LIGHTING POLES, MAST ARMS, MAST ARM SIGN BRACKETS, SIGNAL HEADS, AND IMAGE DETECTORS SHALL BE POWDERED-COATED BLACK.
- PEDESTRIAN PUSH BUTTONS SHALL BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE FOLLOWING SHALL BE INCLUDED AS PART OF THE PUSH BUTTON ITEM:
A. A VIBRO-TACTILE BUTTON WITH RAISED ARROW
B. EXTENSION BRACKET TO ACCOMMODATE AN UNOBSTRUCTED HORIZONTAL REACH OF 10 INCHES OR LESS
- THE PUSH BUTTON SIGNS SHALL HAVE BRAILLE FEATURES.
- CONTRACTOR SHALL COORDINATE WITH PSEG FOR INSTALLATION OF 105W LED WIDE ROADWAY OPTICS ON EXISTING UTILITY POLE.
- LED LIGHTING RETROFIT ON EXISTING UTILITY POLE, BY OTHERS. COORDINATE WITH THE CITY OF PLAINFIELD FOR PSEG LED LIGHTING INSTALLATION.



E-9
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

CITY OF PLAINFIELD

COUNTY OF UNION

STATE
NJ

FEDERAL PROJECT NO.
HSIP-D00S(627)

BLOCK WIRING DIAGRAM

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
701033P	4" RIGID NONMETALLIC CONDUIT	482 L.F.
701099M	17" X 30" JUNCTION BOX	7 UNITS
701102M	18" X 36" JUNCTION BOX	1 UNIT
701117M	JUNCTION BOX FOUNDATION	1 UNIT
701123M	FOUNDATION, TYPE SFT	4 UNITS
701132M	FOUNDATION, TYPE P-MC	1 UNIT
701135M	FOUNDATION, TYPE SPF	4 UNITS
701171M	METER CABINET, TYPE TL	1 UNIT
701192P	GROUND WIRE, NO. 8 AWG	287 L.F.
701210P	SERVICE WIRE, NO. 2 AWG	150 L.F.
701213P	SERVICE WIRE, NO. 6 AWG	330 L.F.
702018M	PEDESTRIAN SIGNAL STANDARD	4 UNITS
702027P	TRAFFIC SIGNAL CABLE, 2 CONDUCTOR	542 L.F.
702030P	TRAFFIC SIGNAL CABLE, 5 CONDUCTOR	881 L.F.
702033P	TRAFFIC SIGNAL CABLE, 10 CONDUCTOR	1019 L.F.
702036M	TRAFFIC SIGNAL HEAD	12 UNITS
702038M	PUSH BUTTON INSTALLATION	3 UNITS
702039M	PEDESTRIAN SIGNAL HEAD	8 UNITS
702041M	PUSH BUTTON ASSEMBLIES, TYPE APS	8 UNITS
702045M	IMAGE DETECTOR	4 UNITS
702059M	GPS UNIT	1 UNIT
702062M	APS CONTROL UNIT	1 UNIT
702101M	UNINTERRUPTIBLE POWER SUPPLY	1 UNIT
703003M	LIGHTING STANDARD ALUMINUM	1 UNIT
703012M	LIGHTING MAST ARM ALUMINUM	1 UNIT
703018M	LUMINAIRE	1 UNIT
704084M	CONTROLLER, CTSS	1 UNIT
704090M	CONTROLLER, CTSS TURN ON	1 UNIT
N99991M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA15	2 UNITS
N99992M	SINGLE MEMBER ARM & SHAFT ASSEMBLY, UC-SMA20	2 UNITS

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SCALE IN FEET

E-10

E-15

COUNTY OF UNION

DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

42

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:44
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USERNAME: Trevor.Malik
 DATE & TIME: 11-SEP-2022 11:45
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LELAND AVENUE AND EAST FRONT STREET

SIGNAL INDICATIONS

WITHOUT PEDESTRIAN ACTUATION

	TIME (sec)						
	1-6	7-12	13-16	17-20	I	II	III
A. LELAND AVE. R.O.W.	G	R	DW	DW	7-21	7-23	7-24
CHANGE	Y	R	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2
B. EAST FRONT STREET R.O.W.	R	G	DW	DW	7-27	7-25	7-24
CHANGE	R	Y	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1

	TIME (sec)						
	1-6	7-12	13-16	17-20	I	II	III
A. LELAND AVE. R.O.W.	G	R	W	DW	7	7	7
PEDESTRIAN CLEARANCE	G	R	FDW	DW	13	13	13
VEHICLE EXTENSION	G	R	DW	DW	0-1	0-3	0-4
CHANGE	Y	R	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2
B. EAST FRONT STREET R.O.W.	R	G	DW	DW	7-27	7-25	7-24
CHANGE	R	Y	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	3

WITH PEDESTRIAN ACTUATION PB #2

	TIME (sec)						
	1-6	7-12	13-16	17-20	I	II	III
A. LELAND AVE. R.O.W.	G	R	DW	DW	7-21	7-23	7-24
CHANGE	Y	R	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2
B. EAST FRONT STREET R.O.W.	R	G	DW	W	7	7	7
PEDESTRIAN CLEARANCE	R	G	DW	FDW	13	13	13
VEHICLE EXTENSION	R	G	DW	DW	0-7	0-5	4
CHANGE	R	Y	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1 AND PB #2

	TIME (sec)						
	1-6	7-12	13-16	17-20	I	II	III
A. LELAND AVE. R.O.W.	G	R	W	DW	7	7	7
PEDESTRIAN CLEARANCE	G	R	FDW	DW	13	13	13
VEHICLE EXTENSION	G	R	DW	DW	0-1	0-3	0-4
CHANGE	Y	R	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2
B. EAST FRONT STREET R.O.W.	R	G	DW	W	7	7	7
PEDESTRIAN CLEARANCE	R	G	DW	FDW	13	13	13
VEHICLE EXTENSION	R	G	DW	DW	0-7	0-5	0-4
CHANGE	R	Y	DW	DW	4	4	4
CLEARANCE	R	R	DW	DW	2	2	2
EMERGENCY FLASH	FR	FY	DARK	DARK			

TIME OF DAY PLANS

HOURS OF OPERATION	TIMING PLAN	CYCLE LENGTH (SECONDS)
6:30AM - 9:30AM MONDAY - FRIDAY	I	26-60
3:00PM - 7:00PM MONDAY - FRIDAY	II	26-60
ALL OTHER TIMES	III	26-60

NOTES:

- MANUAL CONTROL IS TO BE CONNECTED.
- THE MEMORY CIRCUIT IS TO BE OFF.
- UNACTUATED PHASES SHALL BE SKIPPED. THE SIGNAL SHALL REST IN PHASE A.
- THE VEHICLE EXTENSION SHALL BE 2 SECONDS.



E-11
E-15

COUNTY OF UNION
 DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL PLAN

**INTERSECTIONS ALONG EAST AND WEST
 7TH ST (CR 601) AND THE INTERSECTION
 OF EAST FRONT ST (CR 620) AND LELAND AVE**
 MICHAEL BAKER INTERNATIONAL, INC.
 CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

 BRAD J. MILLER
 NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

43

USERNAME:Trevor.Malik
DATE & TIME: 11-SEP-2022 11:45
MBIPW PATH LOCATION: pw://mb-us-pw.bentley.com/mb-us-pw-08/Documents/Hamilton_NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/PB-1_Union-County/CADD/Plan/Contract-Sets/12_Electrical/E-2

CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

LELAND AVENUE AND 7TH STREET

SIGNAL INDICATIONS

WITHOUT PEDESTRIAN ACTUATION

	TIME (sec)				TIME (sec)		
	1-6	7-12	13-16	17-20	I	II	III
A. 7TH STREET R.O.W. CHANGE CLEARANCE	G	R	DW	DW	7-26	7-28	7-26
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. LELAND AVE. R.O.W. CHANGE CLEARANCE	R	G	DW	DW	7-22	7-20	7-22
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1

	TIME (sec)				TIME (sec)		
	1-6	7-12	13-16	17-20	I	II	III
A. 7TH STREET R.O.W. CHANGE CLEARANCE	G	R	DW	DW	7-26	7-28	7-26
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. LELAND AVE. R.O.W. PEDESTRIAN CLEARANCE CHANGE CLEARANCE	R	G	DW	W	7	7	7
	R	G	DW	FDW	15	15	15
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #2

	TIME (sec)				TIME (sec)		
	1-6	7-12	13-16	17-20	I	II	III
A. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G	R	W	DW	7	7	7
	G	R	FDW	DW	15	15	15
	G	R	DW	DW	0-4	0-6	0-4
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. LELAND AVE. R.O.W. CHANGE CLEARANCE	R	G	DW	DW	7-22	7-20	7-22
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1 AND PB #2

	TIME (sec)				TIME (sec)		
	1-6	7-12	13-16	17-20	I	II	III
A. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G	R	W	DW	7	7	7
	G	R	FDW	DW	15	15	15
	G	R	DW	DW	0-4	0-6	0-4
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. LELAND AVE. R.O.W. PEDESTRIAN CLEARANCE CHANGE CLEARANCE	R	G	DW	W	7	7	7
	R	G	DW	FDW	15	15	15
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

EMERGENCY FLASH FY FR DARK DARK

TIME OF DAY PLANS

HOURS OF OPERATION	TIMING PLAN	CYCLE LENGTH (SECONDS)
6:30AM - 9:30AM MONDAY - FRIDAY	I	26-60
3:00PM - 7:00PM MONDAY - FRIDAY	II	26-62
ALL OTHER TIMES	III	26-60

NOTES:

- MANUAL CONTROL IS TO BE CONNECTED.
- THE MEMORY CIRCUIT IS TO BE OFF.
- UNACTUATED PHASES SHALL BE SKIPPED.THE SIGNAL SHALL REST IN PHASE A.
- THE VEHICLE EXTENSION SHALL BE 2 SECONDS.



E-12
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
DATE & TIME: 11-SEP-2022 11:45
MBIPW PATH LOCATION: pwr://mb-us-pw.bentley.com/mb-us-pw-08/Documents/Hamilton_NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/PB-1_Union-County/CADD/Plan/Contract-Sets/12_Electrical/E-18

CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

WOODLAND AVENUE AND 7TH STREET

SIGNAL INDICATIONS

WITHOUT PEDESTRIAN ACTUATION

	1-6	7-14	15-18	19-22	TIME (sec)		
					I	II	III
A. 7TH STREET R.O.W. CHANGE CLEARANCE	G Y R	R R R	DW DW DW	DW DW DW	7-21 4 2	7-29 4 2	7-24 4 2
B. WOODLAND AVE. R.O.W. CHANGE CLEARANCE	R R R	G Y R	DW DW DW	DW DW DW	7-28 3 2	7-20 3 2	7-25 3 2

WITH PEDESTRIAN ACTUATION PB #1

	1-6	7-14	15-18	19-22	TIME (sec)		
					I	II	III
A. 7TH STREET R.O.W. CHANGE CLEARANCE	G Y R	R R R	DW DW DW	DW DW DW	7-21 4 2	7-29 4 2	7-24 4 2
B. WOODLAND AVE. R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	R R R R R	G G G Y R	DW DW DW DW DW	W FDW DW DW DW	7 13 0-8 3 2	7 13 0 3 2	7 13 0-5 3 2

WITH PEDESTRIAN ACTUATION PB #2

	1-6	7-14	15-18	19-22	TIME (sec)		
					I	II	III
A. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G G G Y R	R R R R R	W FDW DW DW DW	DW DW DW DW DW	7 10 0-4 4 2	7 10 0-12 4 2	7 10 0-7 4 2
B. WOODLAND AVE. R.O.W. CHANGE CLEARANCE	R R R	G Y R	DW DW DW	DW DW DW	7-28 3 2	7-20 3 2	7-25 3 2

WITH PEDESTRIAN ACTUATION PB #1 AND PB #2

	1-6	7-14	15-18	19-22	TIME (sec)		
					I	II	III
A. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G G G Y R	R R R R R	W FDW DW DW DW	DW DW DW DW DW	7 10 0-4 4 2	7 10 0-12 4 2	7 10 0-7 4 2
B. WOODLAND AVE. R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	R R R R R	G G G Y R	DW DW DW DW DW	W FDW DW DW DW	7 13 0-8 3 2	7 13 0 3 2	7 13 0-5 3 2
EMERGENCY FLASH	FY	FR	DARK	DARK			

TIME OF DAY PLANS

HOURS OF OPERATION	TIMING PLAN	CYCLE LENGTH (SECONDS)
6:30AM - 9:30AM MONDAY - FRIDAY	I	25-60
3:00PM - 7:00PM MONDAY - FRIDAY	II	25-60
ALL OTHER TIMES	III	25-60

NOTES:

- MANUAL CONTROL IS TO BE CONNECTED.
- THE MEMORY CIRCUIT IS TO BE OFF.
- UNACTUATED PHASES SHALL BE SKIPPED.THE SIGNAL SHALL REST IN PHASE B.
- THE VEHICLE EXTENSION SHALL BE 2 SECONDS.



E-13
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL PLAN

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
 DATE & TIME: 11-SEP-2022 11:45
 MBIPW PATH LOCATION: pwr://mb-us-pw.bentley.com/mb-us-pw-08/Documents/Hamilton_NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/PB-1_Union-County/CADD/Plan/Contract-Sets/12_Electrical/E-4

BERKMAN STREET AND 7TH STREET

SIGNAL INDICATIONS

WITHOUT PEDESTRIAN ACTUATION

					TIME (sec)		
					<u>I</u>	<u>II</u>	<u>III</u>
<u>1-6</u>	<u>7-12</u>	<u>13-16</u>	<u>17-20</u>				
A. BERCKMAN STREET R.O.W. CHANGE CLEARANCE	G	R	DW	DW	7-26	7-22	7-22
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. 7TH STREET R.O.W. CHANGE CLEARANCE	R	G	DW	DW	7-22	7-26	7-26
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1

					TIME (sec)		
					<u>I</u>	<u>II</u>	<u>III</u>
<u>1-6</u>	<u>7-12</u>	<u>13-16</u>	<u>17-20</u>				
A. BERCKMAN STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G	R	W	DW	7	7	7
	G	R	FDW	DW	16	16	16
	G	R	DW	DW	0-3	0	0
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. 7TH STREET R.O.W. CHANGE CLEARANCE	R	G	DW	DW	7-22	7-26	7-26
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #2

					TIME (sec)		
					<u>I</u>	<u>II</u>	<u>III</u>
<u>1-6</u>	<u>7-12</u>	<u>13-16</u>	<u>17-20</u>				
A. BERCKMAN STREET R.O.W. CHANGE CLEARANCE	G	R	DW	DW	7-26	7-22	7-22
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	R	G	DW	W	7	7	7
	R	G	DW	FDW	13	13	13
	R	G	DW	DW	0-2	0-6	0-6
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

WITH PEDESTRIAN ACTUATION PB #1 AND PB #2

					TIME (sec)		
					<u>I</u>	<u>II</u>	<u>III</u>
<u>1-6</u>	<u>7-12</u>	<u>13-16</u>	<u>17-20</u>				
A. BERCKMAN STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	G	R	W	DW	7	7	7
	G	R	FDW	DW	16	16	16
	G	R	DW	DW	0-3	0	0
	Y	R	DW	DW	4	4	4
	R	R	DW	DW	2	2	2
B. 7TH STREET R.O.W. PEDESTRIAN CLEARANCE VEHICLE EXTENSION CHANGE CLEARANCE	R	G	DW	W	7	7	7
	R	G	DW	FDW	13	13	13
	R	G	DW	DW	0-2	0-6	0-6
	R	Y	DW	DW	4	4	4
	R	R	DW	DW	2	2	2

TIME OF DAY PLANS

HOURS OF OPERATION	TIMING PLAN	CYCLE LENGTH (SECONDS)
6:30AM - 9:30AM MONDAY - FRIDAY	I	26-60
3:00PM - 7:00PM MONDAY - FRIDAY	II	26-61
ALL OTHER TIMES	III	26-61

NOTES:

- MANUAL CONTROL IS TO BE CONNECTED.
- THE MEMORY CIRCUIT IS TO BE OFF.
- UNACTUATED PHASES SHALL BE SKIPPED.THE SIGNAL SHALL REST IN PHASE B.
- THE VEHICLE EXTENSION SHALL BE 2 SECONDS.



E-14
E-15

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL PLAN
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

46

SIGNAL INDICATIONS

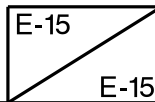
WITHOUT PEDESTRIAN ACTUATION

WITH PEDESTRIAN ACTUATION PB #1WITH PEDESTRIAN ACTUATION PB #2

WITH PEDESTRIAN ACTUATION PB #1 AND PB #2

NOTES:

1. MANUAL CONTROL IS TO BE CONNECTED.
2. THE MEMORY CIRCUIT IS TO BE OFF.
3. UNACTUATED PHASES SHALL BE SKIPPED. THE SIGNAL SHALL REST IN PHASE B.
4. THE VEHICLE EXTENSION SHALL BE 2 SECONDS.



ELECTRICAL PLAN

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:45
MBIPW PATH LOCATION: pw://mb-us-pw.bentley.com/mb-us-pw-08/Documents/Hamilton_NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/176703_NJTPA-FY-2018-LEAP/B-1_Union-County/CADD/Plan/Contract-Sets/21_Signal/TSP-1.dgn
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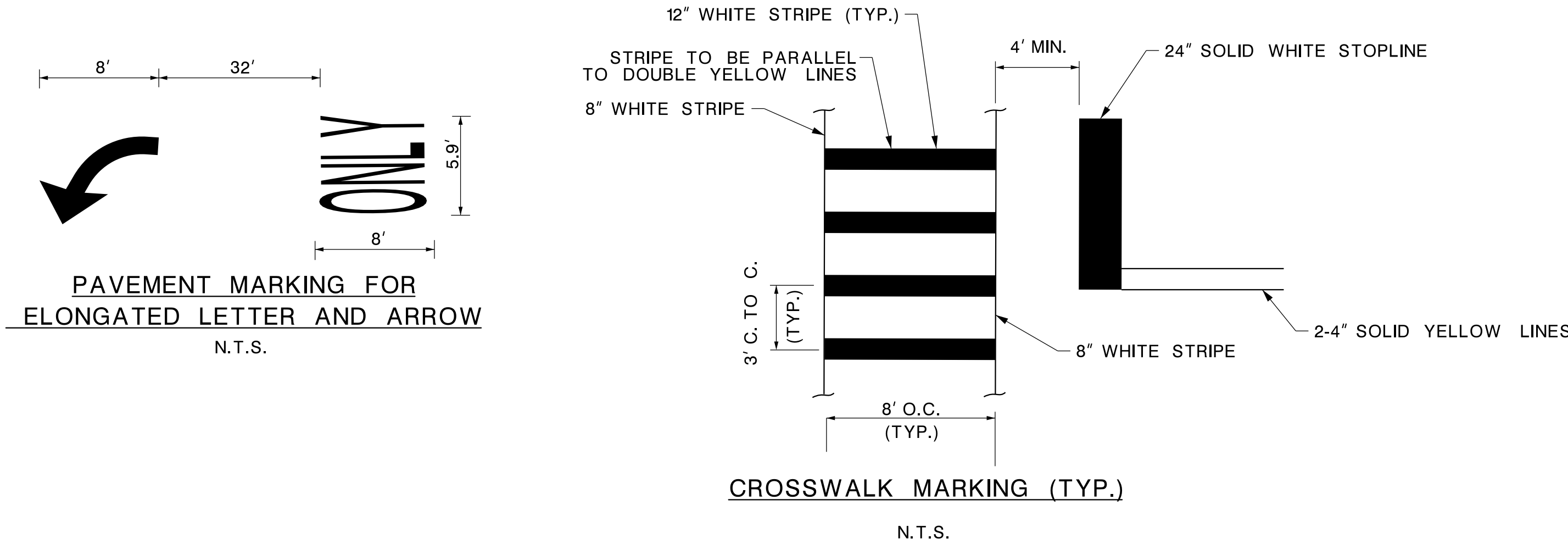
STRIPING LEGEND

- 2- 4" SOLID YELLOW LINES
- 8" SOLID WHITE LINE
- 12" SOLID WHITE LINE
- 24" SOLID WHITE LINE
- 24" SOLID YELLOW LINES SPACE 12' C TO C @ 45°

SIGN LEGEND

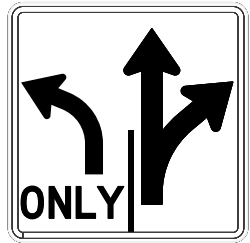
- EXISTING SIGN
- PROPOSED SIGN

PAVEMENT MARKINGS DETAILS

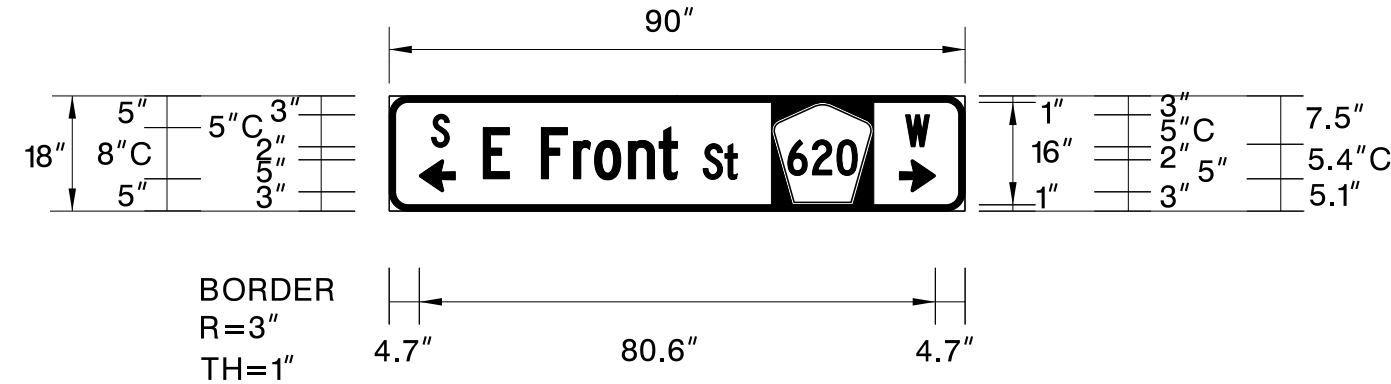


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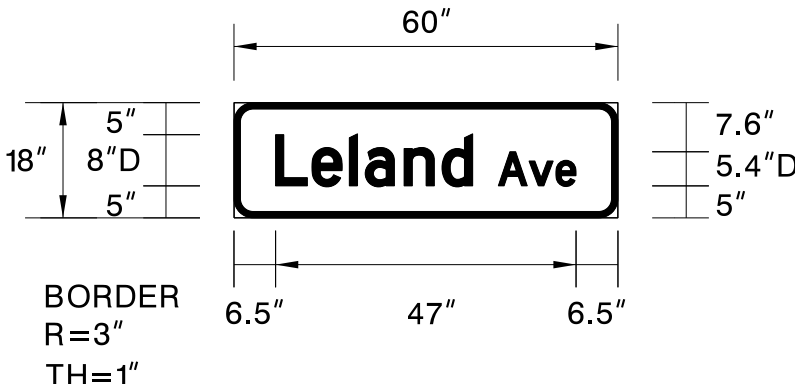
- MAINTAIN AT LEAST A 2 FOOT LONGITUDINAL OFFSET BETWEEN PROPOSED SIGNS AND EXISTING POLES, SIGNS, HYDRANTS, AND OTHER OBSTRUCTIONS. MAINTAIN A MINIMUM OF 4 FEET OF CLEARANCE ALONG THE SIDEWALK FOR PEDESTRIANS BETWEEN OBSTRUCTIONS.
- ALL SIGN POSTS SHALL BE U-CHANNEL AND HAVE REFLECTOR POSTS PANELS, UNLESS DIRECTED OTHERWISE BY THE RESIDENT ENGINEER.
- THE STANDARDS AND REQUIREMENTS OF THE FOLLOWING PUBLICATIONS SHALL GOVERN, EXCEPT AS MODIFIED BY THE SUPPLEMENTARY SPECIFICATIONS OF THIS CONTRACT OR THROUGH WRITTEN APPROVAL BY THE RESIDENT ENGINEER:
 - A. FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", 2009 EDITION AND SUBSEQUENT REVISIONS (MUTCD).
 - B. AASHTO "SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS", 2013 EDITION AND SUBSEQUENT REVISIONS.
- BACKGROUNDS, BORDERS, TEXTS, AND ALL OTHER ELEMENTS OF THE SIGN PANELS SHALL BE TYPE IX OR GREATER RETROREFLECTIVE, DIAMOND GRADE SHEETING (FOR SIGNS A THROUGH G), EXCEPT WHERE NOTED.
- SIGNS SHALL BE INSTALLED ACCORDING TO MUTCD STANDARDS AND REQUIREMENTS.
- SIGNS A THROUGH G SHALL BE WHITE ON GREEN.



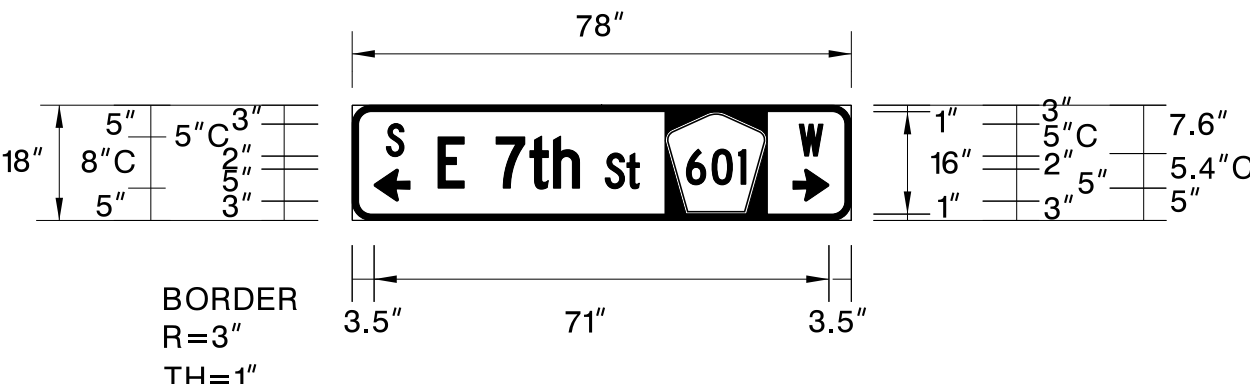
R(NJ)3-8F
30" X 30"



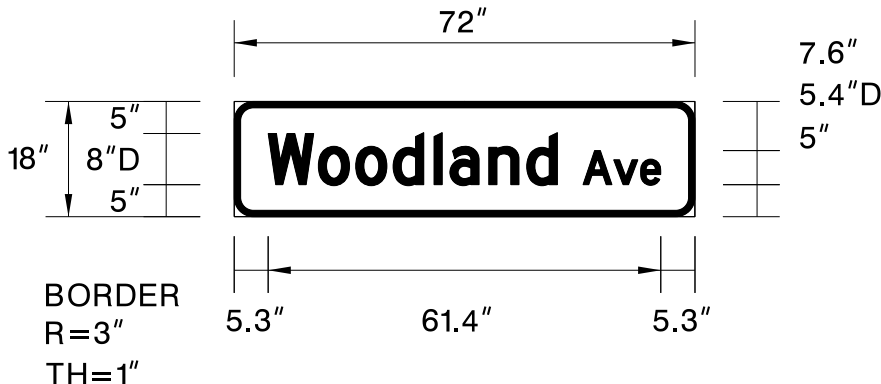
SIGN A
(REVERSE DOUBLE SIDED)



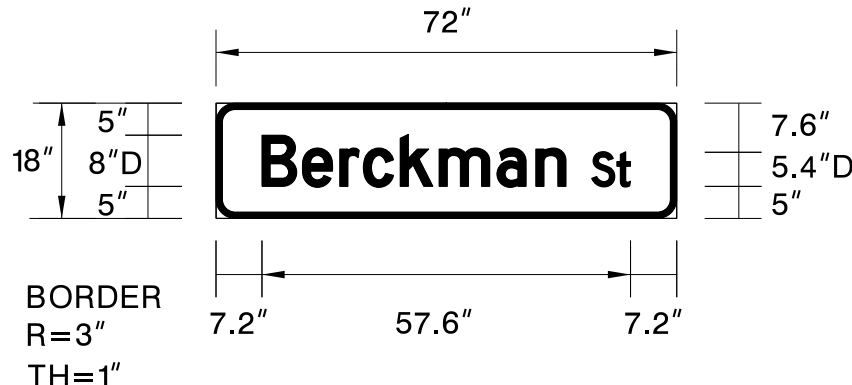
SIGN B
(DOUBLE SIDED)



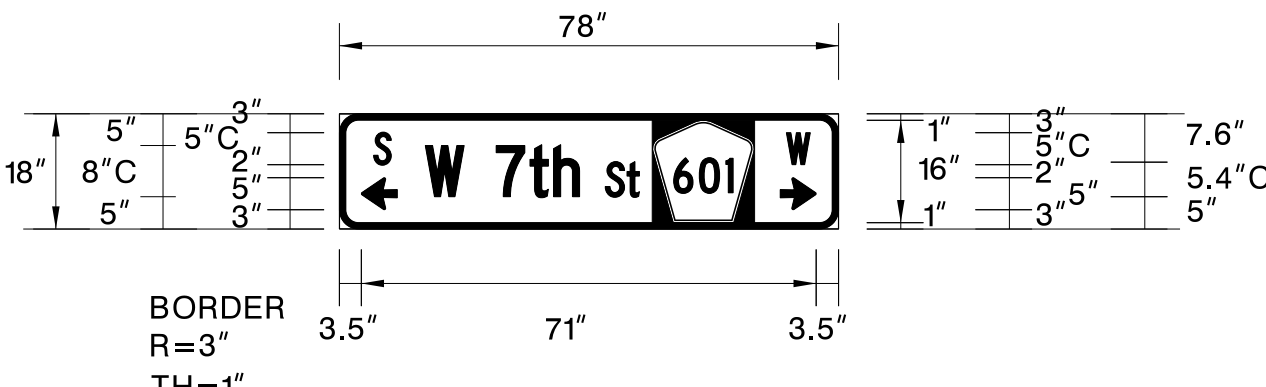
SIGN C
(REVERSE DOUBLE SIDED)



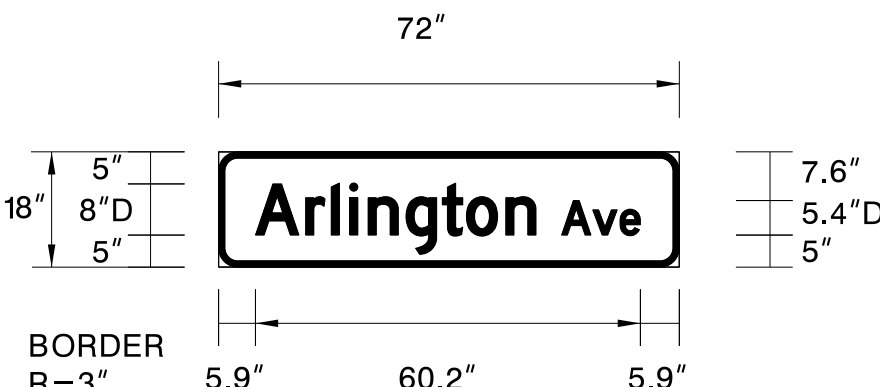
SIGN D
(DOUBLE SIDED)



SIGN E
(DOUBLE SIDED)



SIGN F
(REVERSE DOUBLE SIDED)



SIGN G
(DOUBLE SIDED)

N.T.S.

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

TSP-1
TSP-6

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:46
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

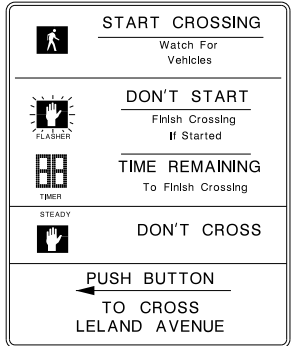
SIGN LEGEND



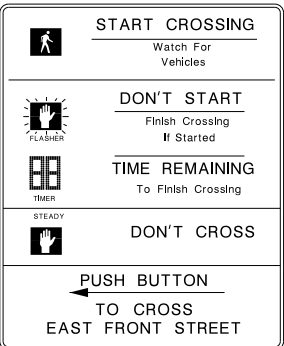
MAST ARM SIGN "A"
90" X 18"
REVERSE DOUBLE SIDED



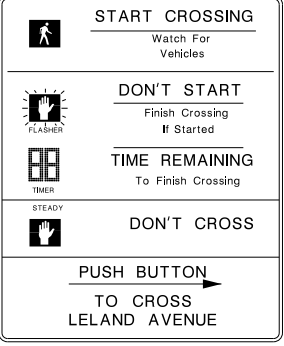
MAST ARM SIGN "B"
60" X 18"
DOUBLE SIDED



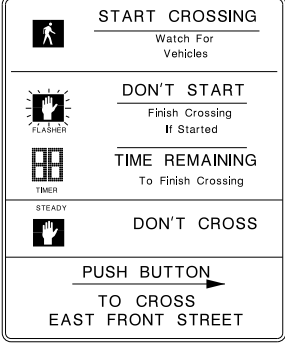
R10-3i (1)(L)
9" x 15"



R10-3i (2)(L)
9" x 15"



R10-3i (1)(R)
9" x 15"



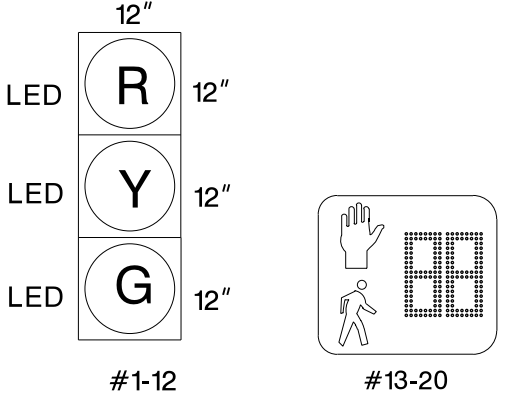
R10-3i (2)(R)
9" x 15"

R2-1
R7-1

SPEED LIMIT (25)
NO PARKING ANY TIME

24" x 30"
12" x 18"

SIGNAL LEGEND



TSP-2
TSP-6

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

**TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

NOTES:

- EXISTING STRIPING SHALL BE REMOVED AS SHOWN ON THE PLANS OR WHERE IT CONFLICTS WITH PROPOSED STRIPING.
- ALL SIGNS MOUNTED ON TRAFFIC SIGNAL MAST ARMS SHALL BE EQUIPPED WITH SAFETY CHAINS IN SUCH A MANNER THAT THEY WILL BE PREVENTED FROM FALLING TO THE GROUND IF THEIR BRACKETS BECOME DETACHED FROM THE TRAFFIC SIGNAL MAST ARM OR IF THE SIGNS BECOME DETACHED FROM THEIR MOUNTING BRACKETS.
- ALL SIGNAL EQUIPMENT, SIGNS, AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SIGNS MOUNTED ON TRAFFIC SIGNAL MAST ARMS SHALL BE RIGIDLY ATTACHED SO THAT THEIR FACES ARE WITHIN 5 DEGREES OF BEING PERPENDICULAR TO THE FLOW OF ONCOMING TRAFFIC IN THE HORIZONTAL PLANE, IF THE ARM TO WHICH THEY ARE ATTACHED IS AT AN ANGLE GREATER THAN 5 DEGREES. ALL SIGNS MOUNTED SHALL BE REINFORCED WITH ALUMINUM "Z" BARS IF REINFORCEMENT IS NOT INTEGRAL TO THE BRACKET. WHERE THE ARM IS AT AN ANGLE OF LESS THAN 5 DEGREES, A SWING BRACKET WITH INTEGRAL TORSION SPRING DAMPENING, OR NJDOT-APPROVED TYPE SHALL BE USED. FREE-SWINGING CHAIN-TYPE ATTACHMENTS SHALL NOT BE PERMITTED.
- PROPOSED SIGNS NOT MOUNTED ON TRAFFIC SIGNAL HARDWARE SHALL INCLUDE U-POST ASSEMBLIES CONFORMING TO THE ELECTRICAL DETAILS OF THE CONTRACT DRAWING SET.
- EXISTING SIGNS WHICH ARE NOT TO BE REMOVED OR REPLACED UNDER THIS CONTRACT, AND WHICH ARE IN AN AREA OF RECONSTRUCTED SIDEWALK SHALL HAVE THEIR POSTS SLEEVED WITH PVC PIPE OR SUFFICIENT DIAMETER TO LEAVE A CLEARANCE OF 1' BETWEEN THE POST AND THE INSIDE WALL OF THE PIPE. THE TOP OF THE PVC PIPE SHALL BE INSTALLED FLUSH WITH THE FINISHED GRADE OF THE SIDEWALK AND GROUTED WITH MORTAR OF A SIMILAR APPEARANCE TO THE SIDEWALK MATERIAL. SIDEWALKS SHALL NOT BE POURED UNTIL SUCH SIGNS HAVE TIER POSTS MADE PLUMB. THIS WORK SHALL BE INCIDENTAL TO SIDEWALK PAY ITEMS.
- TRANSVERSE DIMENSIONS INVOLVING PAINTED LINES ARE FROM EDGE OF PAVEMENT/FACE OF CURB TO THE CENTER OF THE PAINTED WHITE LINE OR CENTER OF 6-INCH SPACE BETWEEN THE 4-INCH YELLOW LINES.

STRIPING LEGEND

- 2- 4" SOLID YELLOW LINES
- 8" SOLID WHITE LINE
- 12" SOLID WHITE LINE
- 24" SOLID WHITE LINE

STRIPING NOTE:

- CROSSWALK LINES SHALL BE A MINIMUM OF 4' FROM THE STOPLINE.

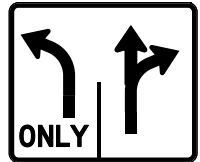
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DATE & TIME: 14-SEP-2022 14:46
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

SIGN LEGEND



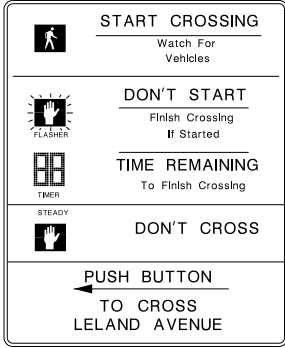
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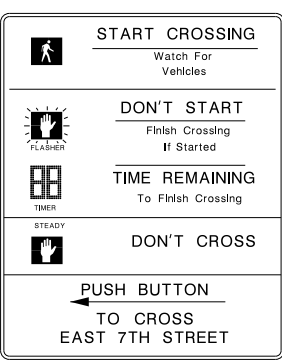
MAST ARM SIGN "B"
60" X 18"
DOUBLE SIDED



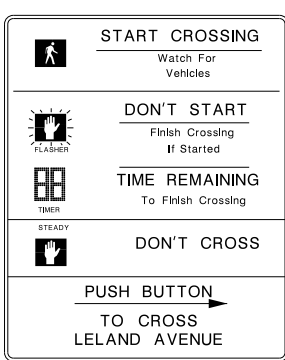
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78" X 18"
REVERSE DOUBLE SIDED



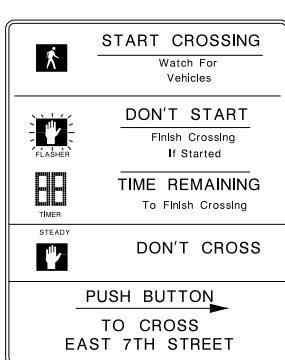
R10-3i (1)(L)
9" X 15"



R10-3i (3)(L)
9" X 15"



R10-3i (1)(R)
9" X 15"

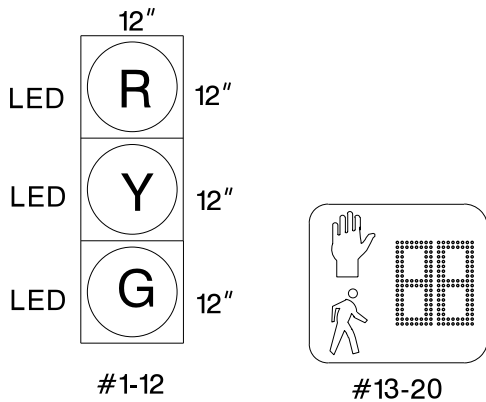


R10-3i (3)(R)
9" X 15"

M1-6 COUNTY ROUTE SIGN
M2-1 JUNCTION
M6-4 (MOD) E/W ARROWS (YELLOW ON BLUE)
R7-1 NO PARKING ANY TIME
R8-1 (MOD) NO PARKING HERE TO CORNER
R8-3 (MOD) NO PARKING (SYMBOL)
R10-12 LEFT TURN YIELD ON GREEN
S1-1 SCHOOL

24" X 24"
21" X 15"
21" X 15"
12" X 18"
12" X 18"
N/A (CIRCLE)
30" X 36"
36" X 36"

SIGNAL LEGEND



TSP-3
TSP-6

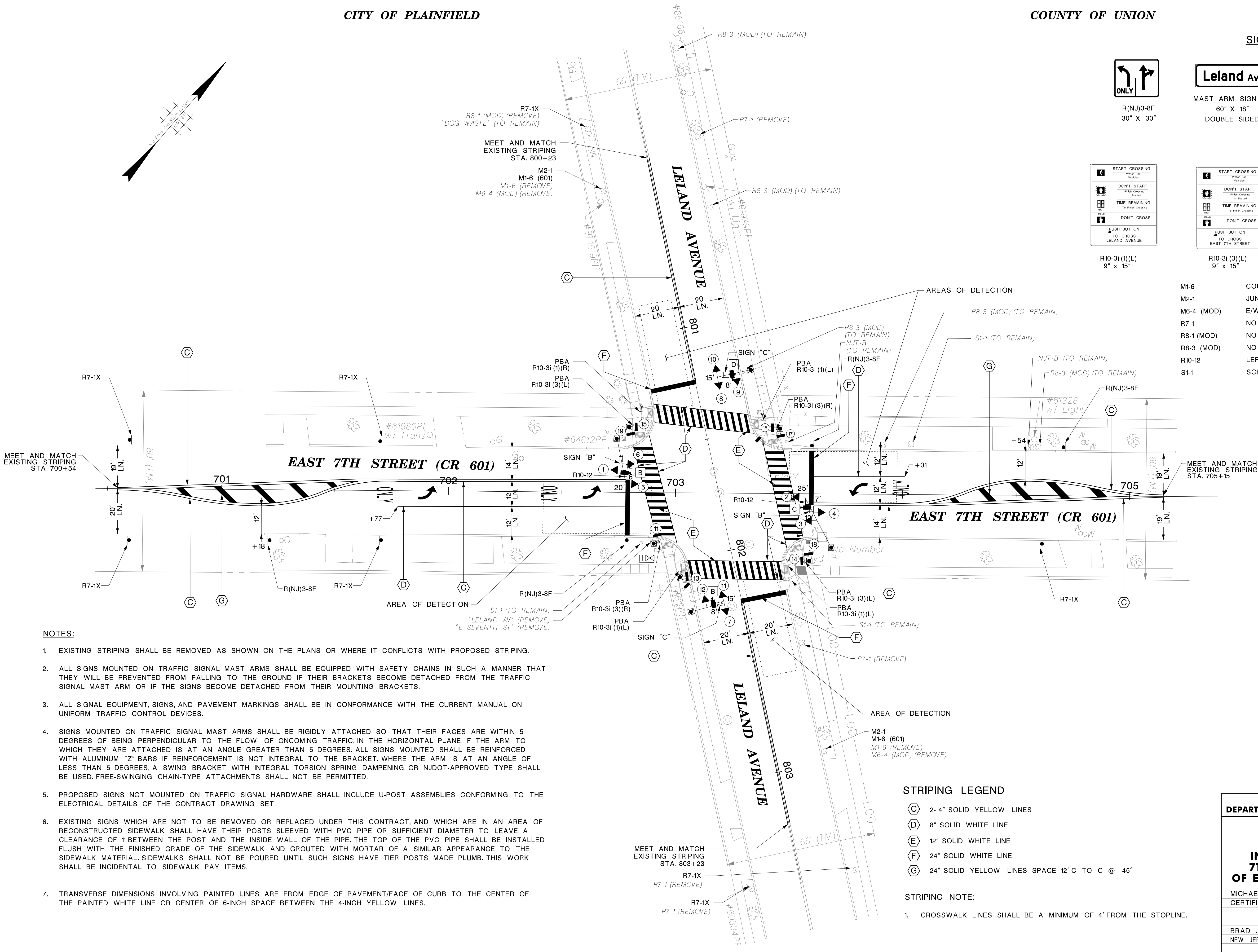
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

50



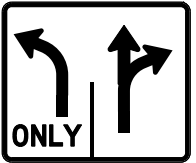
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

SIGN LEGEND



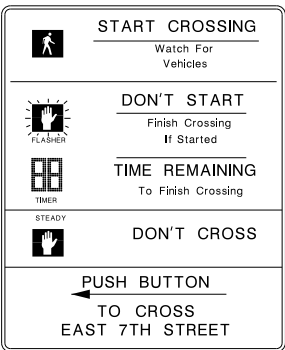
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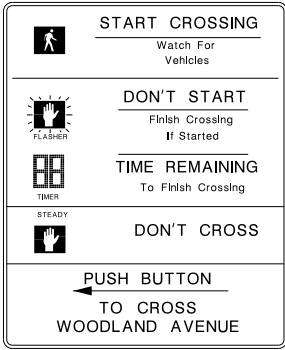
MAST ARM SIGN "C"
78" X 18"
REVERSE DOUBLE SIDED



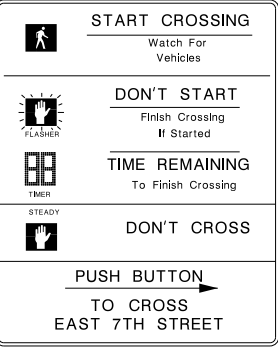
MAST ARM SIGN "D"
72" X 18"
DOUBLE SIDED



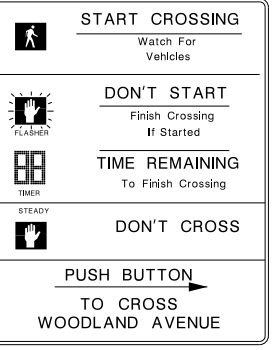
R10-3i(3)(L)
9" x 15"



R10-3i(4)(L)
9" x 15"



R10-3i(3)(R)
9" x 15"

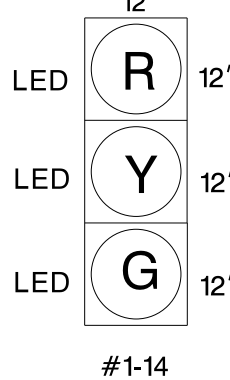


R10-3i(4)(R)
9" x 15"

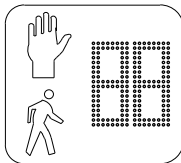
NOTES:

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- ALL SIGNS MOUNTED ON TRAFFIC SIGNAL MAST ARMS SHALL BE EQUIPPED WITH SAFETY CHAINS IN SUCH A MANNER THAT THEY WILL BE PREVENTED FROM FALLING TO THE GROUND IF THEIR BRACKETS BECOME DETACHED FROM THE TRAFFIC SIGNAL MAST ARM OR IF THE SIGNS BECOME DETACHED FROM THEIR MOUNTING BRACKETS.
- ALL SIGNAL EQUIPMENT, SIGNS, AND PAVEMENT MARKINGS SHALL BE IN CONFORMANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- SIGNS MOUNTED ON TRAFFIC SIGNAL MAST ARMS SHALL BE RIGIDLY ATTACHED SO THAT THEIR FACES ARE WITHIN 5 DEGREES OF BEING PERPENDICULAR TO THE FLOW OF ONCOMING TRAFFIC, IN THE HORIZONTAL PLANE, IF THE ARM TO WHICH THEY ARE ATTACHED IS AT AN ANGLE GREATER THAN 5 DEGREES. ALL SIGNS MOUNTED SHALL BE REINFORCED WITH ALUMINUM "Z" BARS IF REINFORCEMENT IS NOT INTEGRAL TO THE BRACKET. WHERE THE ARM IS AT AN ANGLE OF LESS THAN 5 DEGREES, A SWING BRACKET WITH INTEGRAL TORSION SPRING DAMPENING, OR NJDOT-APPROVED TYPE SHALL BE USED. FREE-SWINGING CHAIN-TYPE ATTACHMENTS SHALL NOT BE PERMITTED.
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- EXISTING SIGNS WHICH ARE NOT TO BE REMOVED OR REPLACED UNDER THIS CONTRACT, AND WHICH ARE IN AN AREA OF RECONSTRUCTED SIDEWALK SHALL HAVE THEIR POSTS SLEEVED WITH PVC PIPE OR SUFFICIENT DIAMETER TO LEAVE A CLEARANCE OF 1" BETWEEN THE POST AND THE INSIDE WALL OF THE PIPE. THE TOP OF THE PVC PIPE SHALL BE INSTALLED FLUSH WITH THE FINISHED GRADE OF THE SIDEWALK AND GROUTED WITH MORTAR OF A SIMILAR APPEARANCE TO THE SIDEWALK MATERIAL. SIDEWALKS SHALL NOT BE POURED UNTIL SUCH SIGNS HAVE TIER POSTS MADE PLUMB. THIS WORK SHALL BE INCIDENTAL TO SIDEWALK PAY ITEMS.
- TRANSVERSE DIMENSIONS INVOLVING PAINTED LINES ARE FROM EDGE OF PAVEMENT/FACE OF CURB TO THE CENTER OF THE PAINTED WHITE LINE OR CENTER OF 6-INCH SPACE BETWEEN THE 4-INCH YELLOW LINES.

SIGNAL LEGEND



#1-14



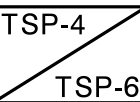
#15-22

STRIPING LEGEND

- 2-4" SOLID YELLOW LINES
- 8" SOLID WHITE LINE
- 12" SOLID WHITE LINE
- 24" SOLID WHITE LINE
- 24" SOLID YELLOW LINES SPACE 12' C TO C @ 45°

STRIPING NOTE:

- CROSSWALK LINES SHALL BE A MINIMUM OF 4' FROM THE STOPLINE.



COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

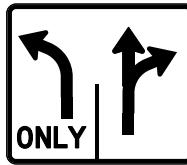
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

SIGN LEGEND



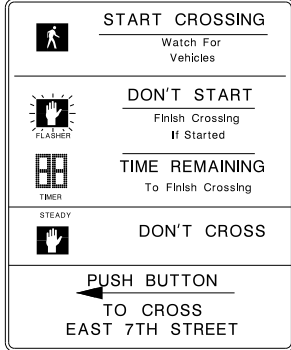
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30" X 30"



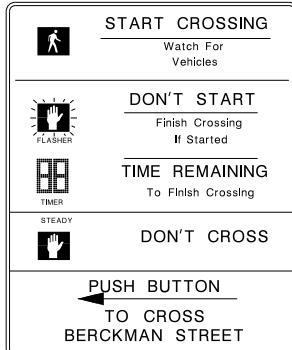
MAST ARM SIGN "C"
78" X 18"
REVERSE DOUBLE SIDED



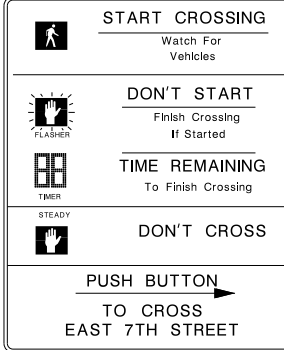
MAST ARM SIGN "E"
66" X 18"
DOUBLE SIDED



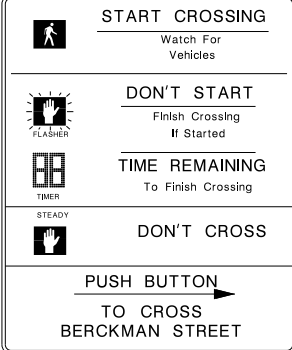
R10-3i (3)(L)
9" X 15"



R10-3i (5)(L)
9" X 15"



R10-3i (3)(R)
9" X 15"



R10-3i (5)(R)
9" X 15"

R3-8

R7-1

S1-1

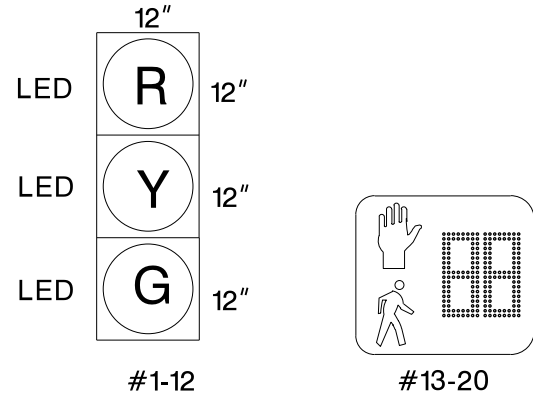
ADVANCE INTERSECTION LANE CONTROL
NO PARKING ANY TIME
SCHOOL

VARIES X 30"
12" X 18"
36" X 12"

STRIPING LEGEND

- 2- 4" SOLID YELLOW LINES
- 8" SOLID WHITE LINE
- 12" SOLID WHITE LINE
- 24" SOLID WHITE LINE
- 24" SOLID YELLOW LINES SPACE 12" C TO C @ 45°

SIGNAL LEGEND



TSP-5
TSP-6

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
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MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

52

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STRIPING NOTE:

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DATE & TIME: 14-SEP-2022 14:47
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

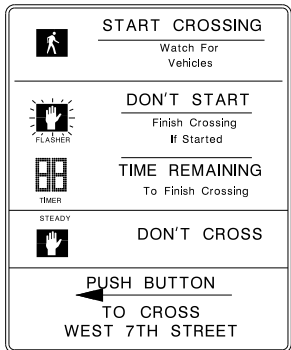
SIGN LEGEND



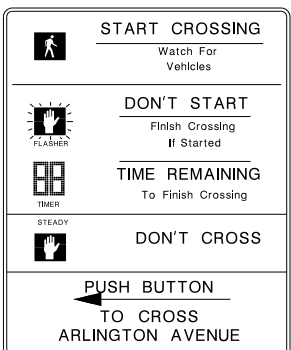
MAST ARM SIGN "F"
78" X 18"
REVERSE DOUBLE SIDED



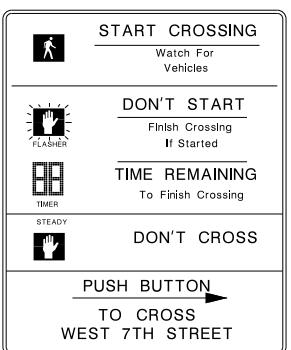
MAST ARM SIGN "G"
72" X 18"
DOUBLE SIDED



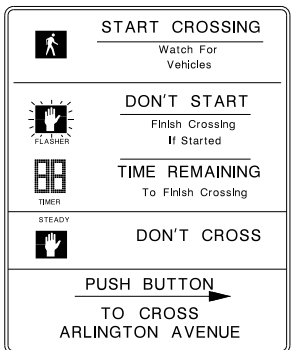
R10-3i (6)(L)
9" x 15"



R10-3i (7)(L)
9" x 15"



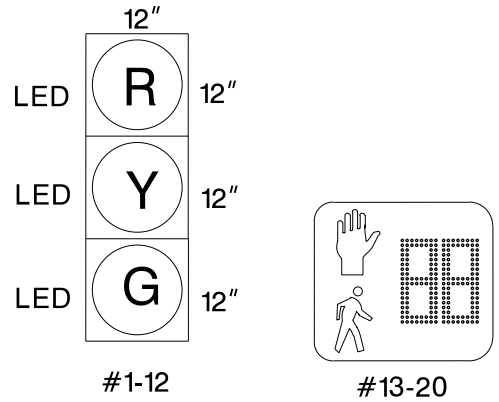
R10-3i (6)(R)
9" x 15"



R10-3i (7)(R)
9" x 15"

R1-1	STOP	30" x 30"
R3-2	NO LEFT TURN	36" x 36"
R3-3	NO TURNS	36" x 36"
R3-4	NO U TURN	36" x 36"
R3-7R	RIGHT LANE MUST TURN RIGHT	36" x 36"
R3-8b	ADVANCE INTERSECTION LANE CONTROL	48" x 30"
R4-7	KEEP RIGHT	24" x 30"
R7-1	NO PARKING ANY TIME	12" x 18"
R9-3	NO PEDESTRIANS	18" x 18"
R9-3bP(R)	USE CROSSWALK (RIGHT)	18" x 12"
R9-3bP(L)	USE CROSSWALK (LEFT)	18" x 12"
R10-11a	NO TURN ON RED	30" x 36"

SIGNAL LEGEND



TSP-6
TSP-6

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

**TRAFFIC SIGNAL,
SIGNING, AND STRIPING PLANS
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

53

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STRIPING LEGEND

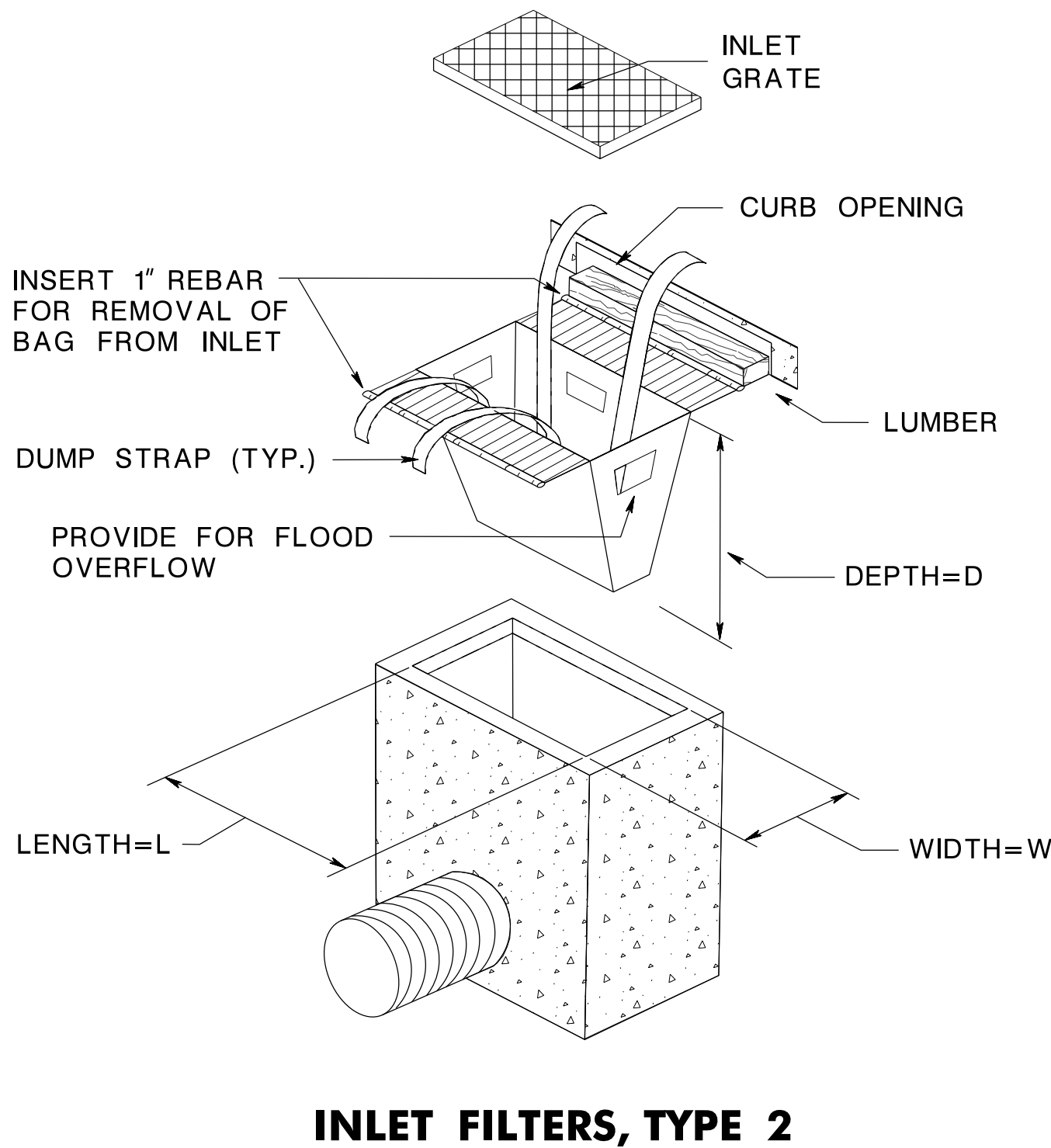
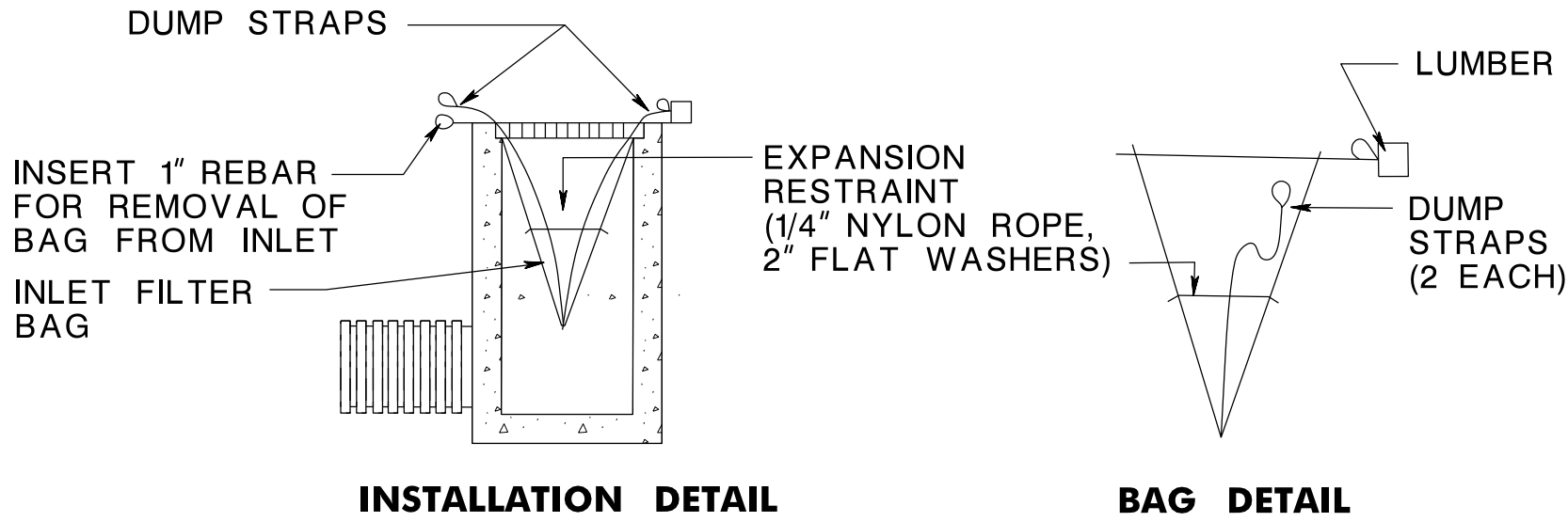
- 2- 4" SOLID YELLOW LINES
- 8" SOLID WHITE LINE
- 12" SOLID WHITE LINE
- 24" SOLID WHITE LINE
- 24" SOLID YELLOW LINES SPACE 12' C TO C @ 45°

STRIPING NOTE:

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USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:47
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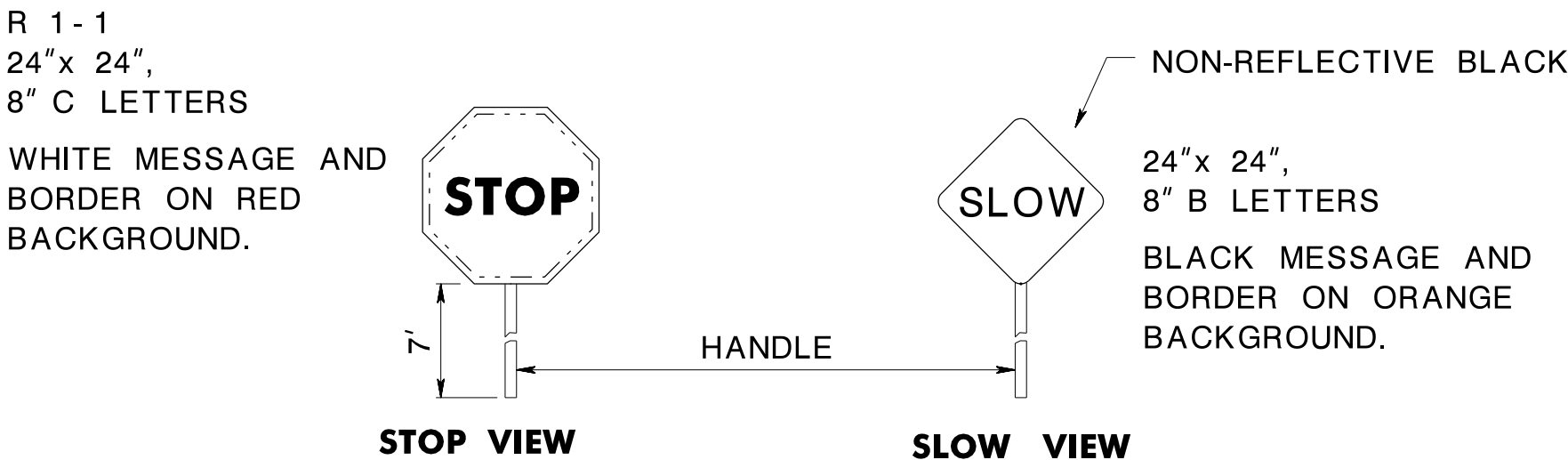
BD-18D-09-REVISION TO CD-159-2.6
BD-16D-01-ORIGINAL SHEET



SOIL EROSION AND
SEDIMENT CONTROL
MEASURES

N.T.S.

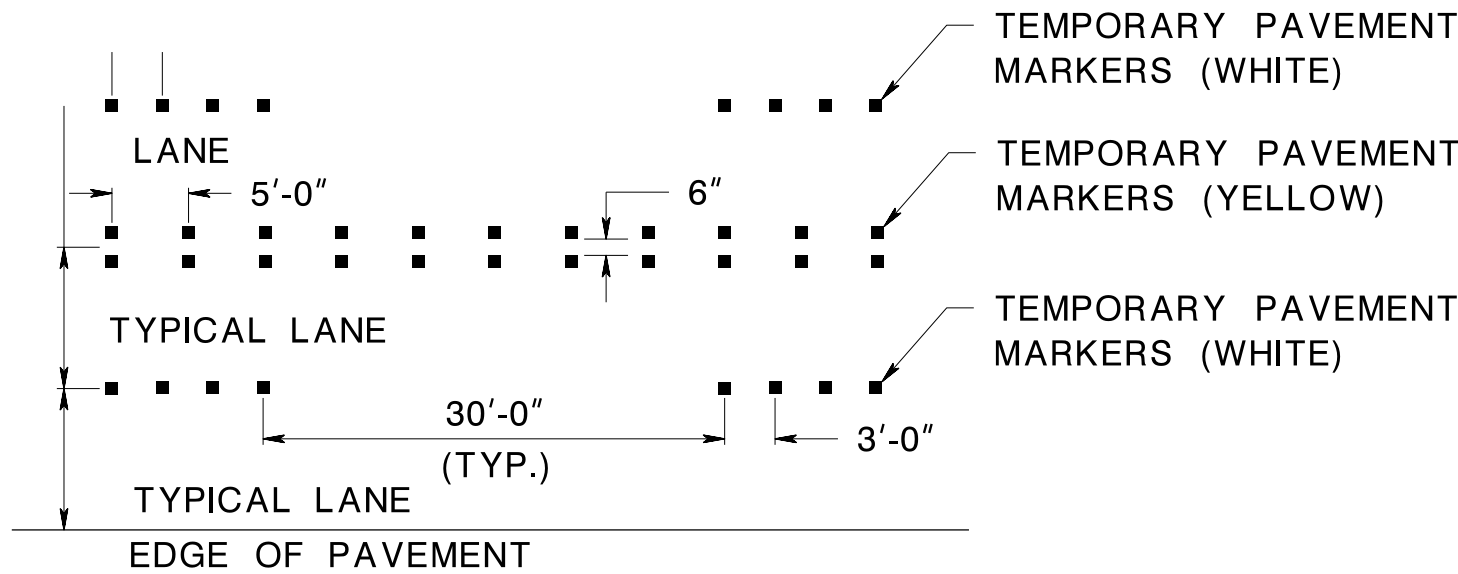
CD-158-2.5



NOTE:
SIGN FACES TO BE
RETROREFLECTIVE
SHEETING, ASTM D4956 TYPE III.

STOP / SLOW PADDLE

CD-159-2.3

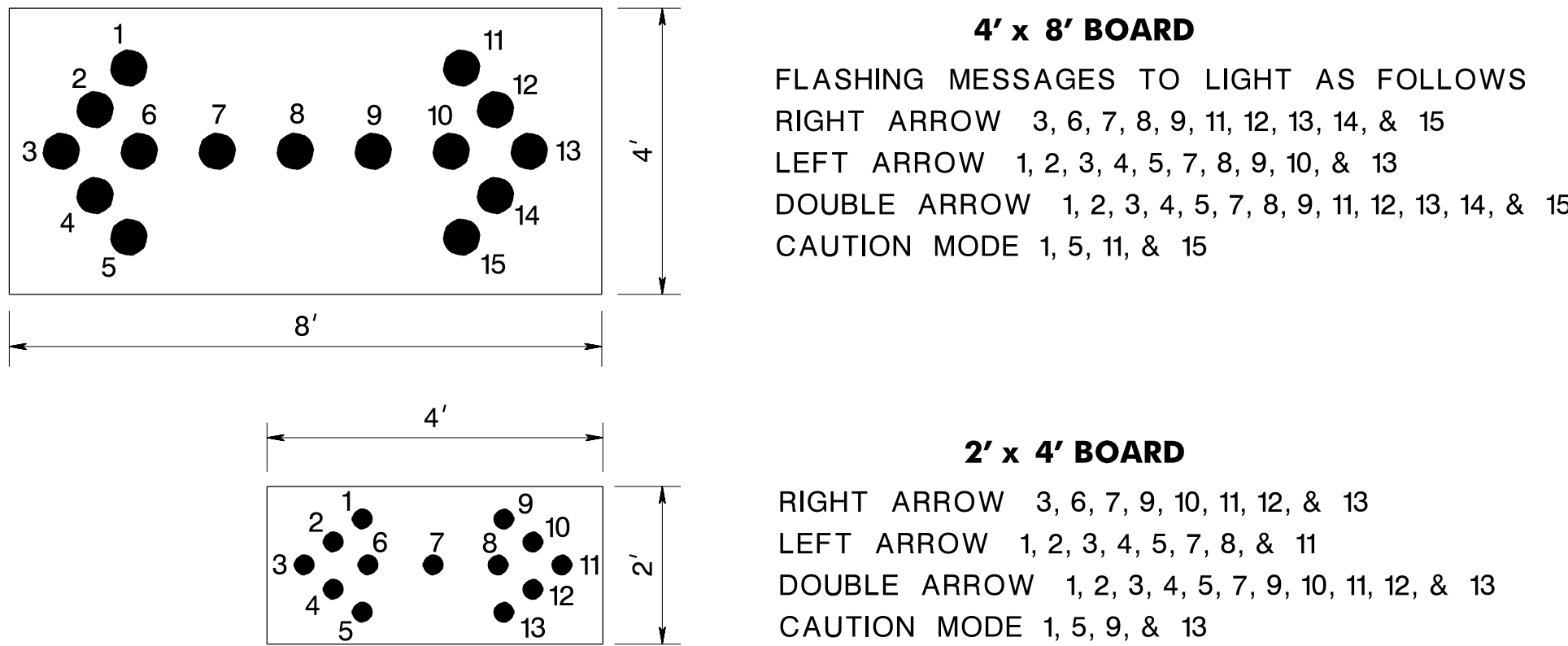


NOTES:

1. WHEN TEMPORARY PAVEMENT MARKERS ARE TO SIMULATE LANE LINES ON SHARP CURVES OR IN TRANSITIONS TO EITHER REDUCE THE NUMBER OF LANES OR TO SHIFT TRAFFIC Laterally, SPACE THE TEMPORARY PAVEMENT MARKERS 5 FEET APART CONTINUOUSLY THROUGH THE CURVE OR TRANSITION AREA.
2. DO NOT USE TEMPORARY PAVEMENT MARKERS TO DELINEATE RIGHT EDGE LINES.

TEMPORARY PAVEMENT MARKERS

CD-159-2.5



ILLUMINATED FLASHING ARROWS,
____' x ____'

CD-159-2.1

NOTES:

UNLESS OTHERWISE SHOWN ON THE PLANS, APPLY LATEX TRAFFIC STRIPES AND MARKINGS AT THE LOCATIONS OF THE FINAL STRIPING AS PER THE FOLLOWING:

1. **DURATION** - LATEX PAVEMENT STRIPES AND MARKINGS ARE NOT TO REMAIN IN PLACE FOR MORE THAN 14 DAYS AFTER THE CONSTRUCTION OF THE PAVEMENT. ANY EXTENSION OF THE DURATION FOR LATEX STRIPES BEYOND 14 DAYS TO BE APPROVED BY THE REGIONAL TRAFFIC ENGINEER - WORK ZONE. USE EPOXY STRIPES AND THERMOPLASTIC MARKINGS WHEN IT IS KNOWN THAT THE DURATION WILL BE LONGER THAN 14 DAYS.
2. **WIDTH** - ALL LONGITUDINAL LINES (CENTER LINES, SHOULDER LINES, AND SKIPS) TO BE 4 OR 6 INCHES IN WIDTH TO FOLLOW THE EXISTING PRE-CONSTRUCTION MARKING.
3. **SKIP LINES** - PLACE SKIP LINES USING THE SAME CYCLE LENGTH AS EPOXY STRIPING (DISTANCE FROM START OF SKIP TO START OF SKIP, TYPICALLY 40 FOOT), AND MAY HAVE SKIPS HAVING 2 FOOT LENGTHS.
4. **STOP LINES** - STOP LINES TO BE PLACED OR RESTORED.
5. **GORE AREAS** - GORE AREAS TO HAVE EDGE LINES, BUT DO NOT REQUIRE CROSS HATCHING.
6. **TURN ARROWS** - WHEN LATEX MARKINGS WILL BE IN PLACE MORE THAN 7 DAYS, PLACE AT LEAST ONE INDICATION OF TURN ARROWS.
7. **CROSSWALKS** - PLACE CROSSWALKS AT SIGNALIZED INTERSECTIONS, ONLY IF THEY PRE-EXISTED THE CONSTRUCTION.

LATEX TRAFFIC STRIPES AND LATEX MARKINGS

CD-159-2.6

TRAFFIC CONTROL DEVICES

N.T.S.

CD-159-2

DTL-1
DTL-18

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

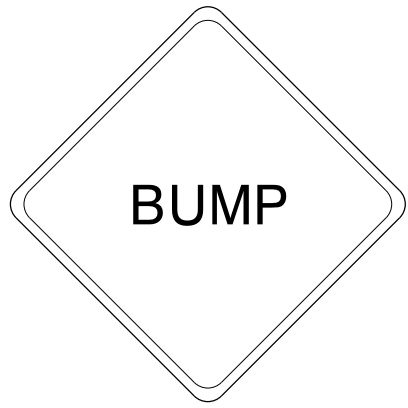
CONSTRUCTION DETAIL

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

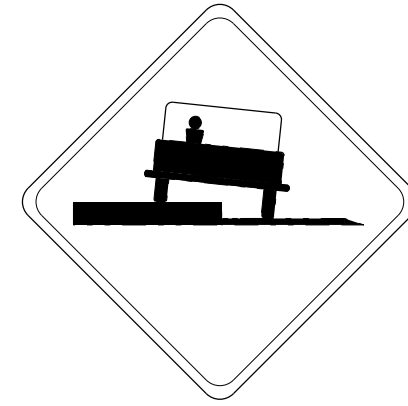
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300


```
USERNAME: Trevor.Malik  
DATE & TIME: 14-SEP-2017 16:08:09  
MBIPW PATH LOCATION:
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W8 - 1 (S) [48" x 48"]
(16 S.F.)

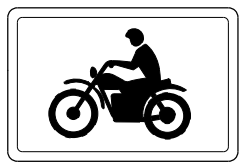


W8 - 11a [48" x 48"]
(16 S.F.)



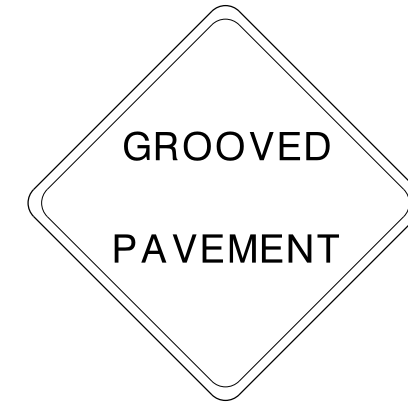
W8 - 15F [48" x 48"]
(16 S.F.)

STREET NAME SIGN TO BE
USED IN CONJUNCTION WITH
M4 - 9 SIGNS BLACK ON ORANGE



W8 - 15P [36" x 30"]
(7.5 S.F.)

[30" x 30"] (S)
(6.3 S.F.)



W8 - 15 [48" x 48"]
(16 S.F.)

[30" x 30"] (S)
(6.3 S.F.)



[30" x 30"] (S)
(6.3 S.F.)

LETTER	DISTANCE
A	1500'
B	1000'
C	500'
D	_____ MILE
E	_____ MILES AHEAD
F	_____ AHEAD

USE ALUMINUM FLAT SHEET OF ALLOY AND TEMPER
5052-H38 OR 6061-T6 :

A. 0.10" THICK FOR ALL CONSTRUCTION SIGNS EXCEPT SIGNS
SHOWN MOUNTED ON BREAKAWAY BARRICADES.

B. 0.024" THICK FOR ALL CONSTRUCTION SIGNS SHOWN
MOUNTED ON BREAKAWAY BARRICADES.

USE WELL SEASONED LUMBER FOR SIGN SUPPORTS, FREE OF SPLITS, KNOTS AND WARPS, OR OF STEEL COMPONENTS.

WOOD POSTS TO HAVE A UNIFORM CROSS-SECTION AND NOT TO EXCEED THE FOLLOWING DIMENSIONS FOR:

SINGLE POST = 4" x 6"

TWO POSTS = 3" x 6" OR 4" x 5"

THREE POSTS = 3" x 5" OR 4" x 4"

4" X 6" WOOD POSTS TO BE MODIFIED BY DRILLING 1½
INCH DIAMETER HOLES 4 INCHES AND 18 INCHES ABOVE THE
GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.

NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS TO BE 7 FOOT MINIMUM. EMBEDMENT DEPTH FOR THE WOOD POST NOT TO EXCEED 3.5 FEET.

USE STEEL POSTS IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.

TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA TO BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHIONS.

USE WOOD POST ONLY ON TEMPORARY SIGN SUPPORT.

USE SIGN FACES OF ASTM D4956 TYPE VII OR VIII FLUORESCENT ORANGE SHEETING.

SECURELY FASTEN ALL SIGNS TO THEIR SUPPORTS WITH BOLTS, NUTS, AND WASHERS, AS SPECIFIED.

N.T.S.

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
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BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

CD-159-6.1

NOTE:

THE BORDER, THE WORDS "GIVE US A", "SLOW
DOWN!", AND THE BRAKE PEDAL ARE BLACK;
LEAVING THE WORD "BRAKE" ORANGE.

STATE

FEDERAL PROJECT NO.

NJ

HSIP-D00S(627)

EXIT

E5 - 1 [60" x 48"]
(20 S.F.)

EXIT

500 FT

W50 - 1C [60" x 48"]
(20 S.F.)

RAMP

NARROWS

W5 - 4 [48" x 48"]
(16 S.F.)

ALL EXITING TRAFFIC
KEEP RIGHT

W(NJ)100 - 1(L OR R)
48" x 48"
(16 S.F.)

CENTER LANE
CLOSED
AHEAD

W9 - 3 [48" X 48"]
(16 S.F.)

SPEED LIMIT

W3 - 5
48" x 48"
(16 S.F.)

SINGLE LANE
AHEAD

W20 - 4F(M) [48" x 48"]
(16 S.F.)

WORK ZONE

G20 - 5aP
36" x 24"
(6 S.F.)
BLACK ON ORANGE

SHOULDER
CLOSED

W20 - 10(G) [48" x 48"]
(16 S.F.)

EMERGENCY
PULL OFF
500'

6"C
6"C
6"C

EP1
60" X 36"
(15 S.F.)
BLACK ON ORANGE

EMERGENCY
PULL
OFF

6"C
6"C
6"C

EP2
60" X 36"
(15 S.F.)
BLACK ON ORANGE

TRAFFIC FINES
DOUBLED
IN WORK AREA

1/2" WHITE BORDER

1/2" BLACK BORDER

36"

60"

3"

6"

4"

8"

4"

6"

3"

NOTE:

MESSAGE TO BE BLACK LETTERS
ON WHITE REFLECTIVE BACKGROUND.

R(NJ)5-17 60" x 36"
(15 S.F.)

TRAFFIC FINES
DOUBLED
IN WORK AREA

1/2" WHITE BORDER

1/2" BLACK BORDER

30"

48"

2.5"

5"

3"

7"

3"

5"

2.5"

NOTE:

MESSAGE TO BE BLACK LETTERS
ON WHITE REFLECTIVE BACKGROUND.

R(NJ)5-17 48" x 30"
(10 S.F.)

GENERAL NOTES:

1. DIMENSIONS, COLORS, AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOW STANDARDS IN THE CURRENT "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".

2. LETTERS AND NUMERALS TO CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

3. OBTAIN RE'S APPROVAL FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.

4. DISTANCE LEGEND: SIGN NUMBER FOLLOWED BY A LETTER AND DISTANCE, ARE THE SIGN PLACEMENTS FOR USE WITH TCD-3 THROUGH TCD-21 AND PROJECT SPECIFIC PLANS. ALL DISTANCES ARE FROM THE TRANSITION OR POINT OF RESTRICTION.

LETTER

DISTANCE

A

1500'

B

1000'

C

500'

D

MILE

E

___ MILES AHEAD

F

AHEAD

BACKING MATERIAL

1. USE ALUMINUM FLAT SHEET OF ALLOY AND TEMPER 5052-H38 OR 6061-T6:

A. 0.10" THICK FOR ALL CONSTRUCTION SIGNS EXCEPT SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.

B. 0.024" THICK FOR ALL CONSTRUCTION SIGNS SHOWN MOUNTED ON BREAKAWAY BARRICADES.

TEMPORARY SIGN SUPPORTS

1. USE WELL SEASONED LUMBER SIGN SUPPORTS, FREE OF SPLITS, KNOTS AND WARPS, OR OF STEEL COMPONENTS.

2. WOOD POSTS TO HAVE A UNIFORM CROSS-SECTION AND NOT TO EXCEED THE FOLLOWING DIMENSIONS FOR:

SINGLE POST = 4" x 6"

TWO POSTS = 3" x 6" OR 4" x 5"

THREE POSTS = 3" x 5" OR 4" x 4"

4" X 6" WOOD POSTS TO BE MODIFIED BY DRILLING 1 1/2 INCH DIAMETER HOLES 4 INCHES AND 18 INCHES ABOVE THE GROUND LINE AND PERPENDICULAR TO THE ROADWAY CENTERLINE.

3. NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS TO BE 7 FOOT MINIMUM. EMBEDMENT DEPTH FOR THE WOOD POST NOT TO EXCEED 3.5 FEET.

4. USE STEEL POSTS IN ACCORDANCE WITH THE STANDARD DETAIL FOR U-POST SIGN SUPPORT.

5. TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA TO BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHIONS.

6. USE WOOD POST ONLY ON TEMPORARY SIGN SUPPORT.

SIGN FACES

1. USE SIGN FACES OF ASTM D4956 TYPE VII OR VIII FLUORESCENT ORANGE SHEETING.

FASTENING

1. SECURELY FASTEN ALL SIGNS TO THEIR SUPPORTS WITH BOLTS, NUTS, AND WASHERS, AS SPECIFIED.

CONSTRUCTION SIGNS

N.T.S.

CD-159-7

DTL-3

DTL-18

COUNTY OF UNION

DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION DETAIL

INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.

CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

CD-159-7.1

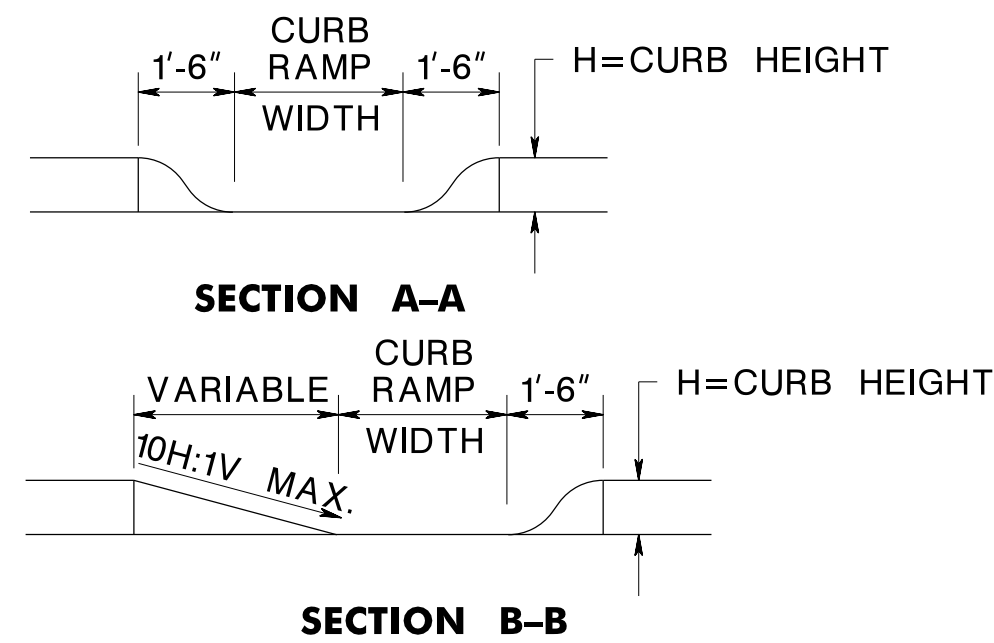
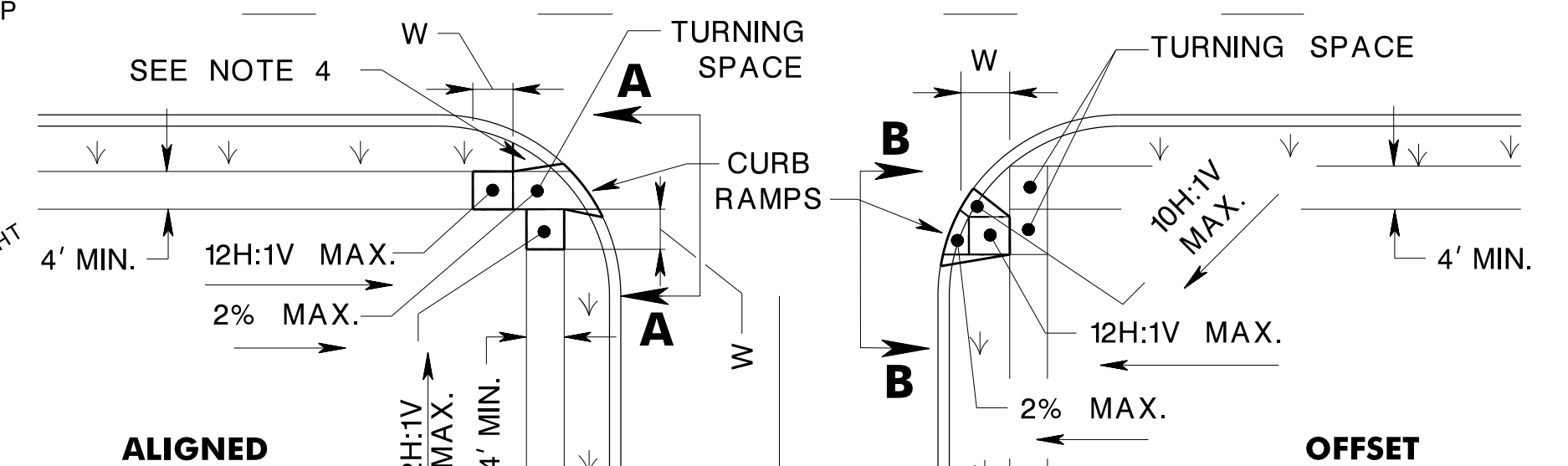
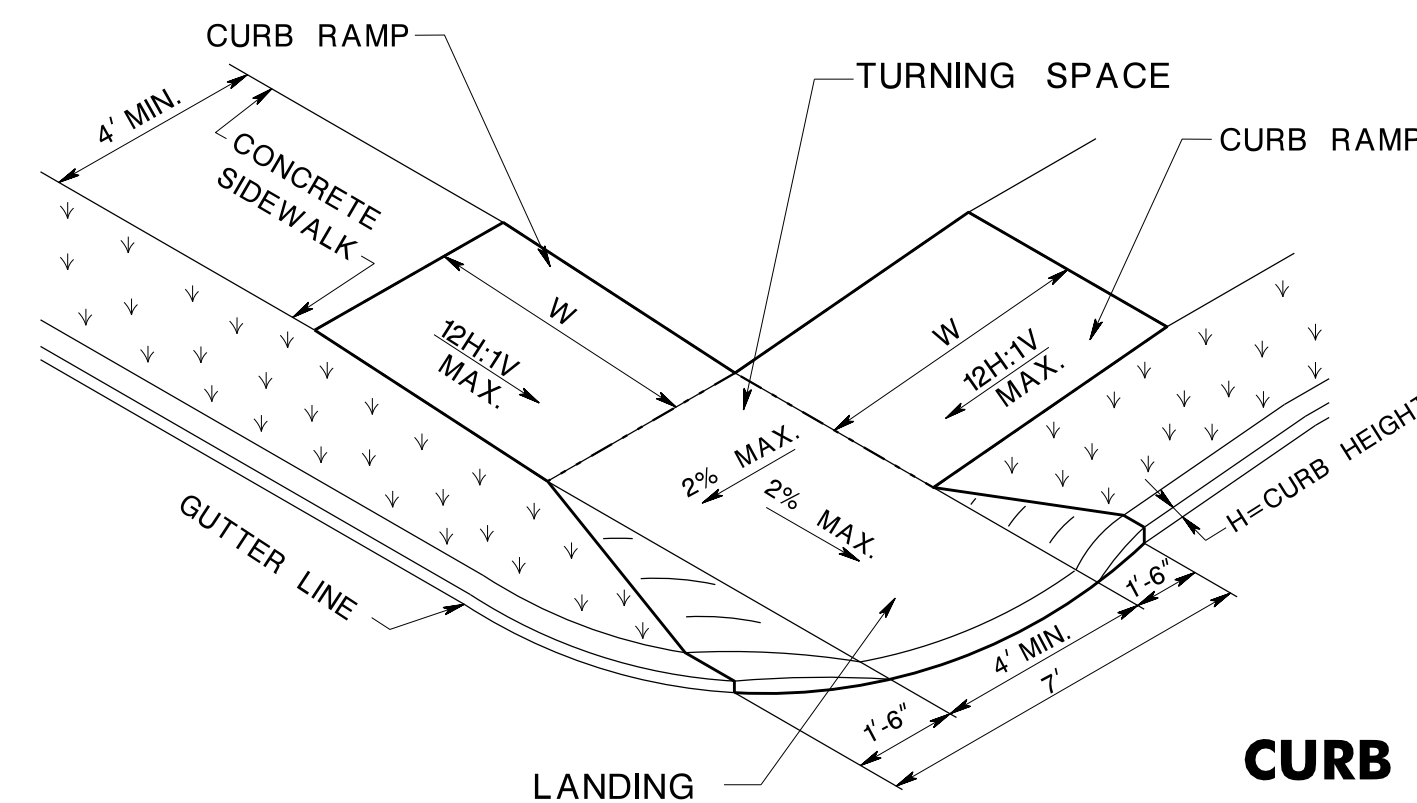
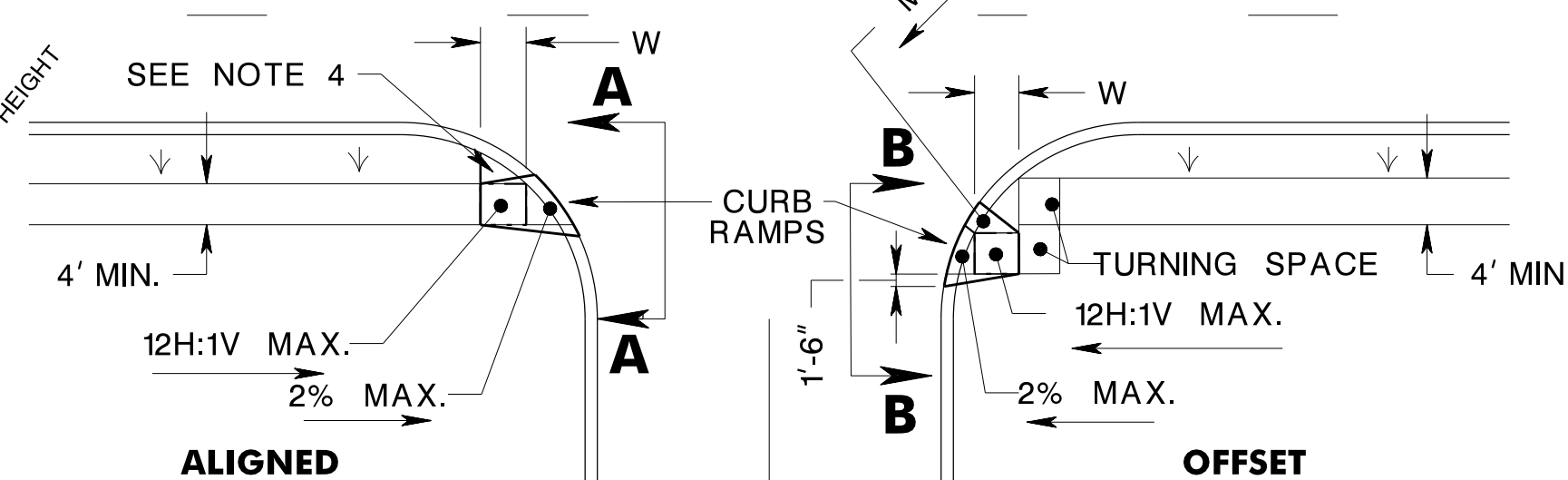
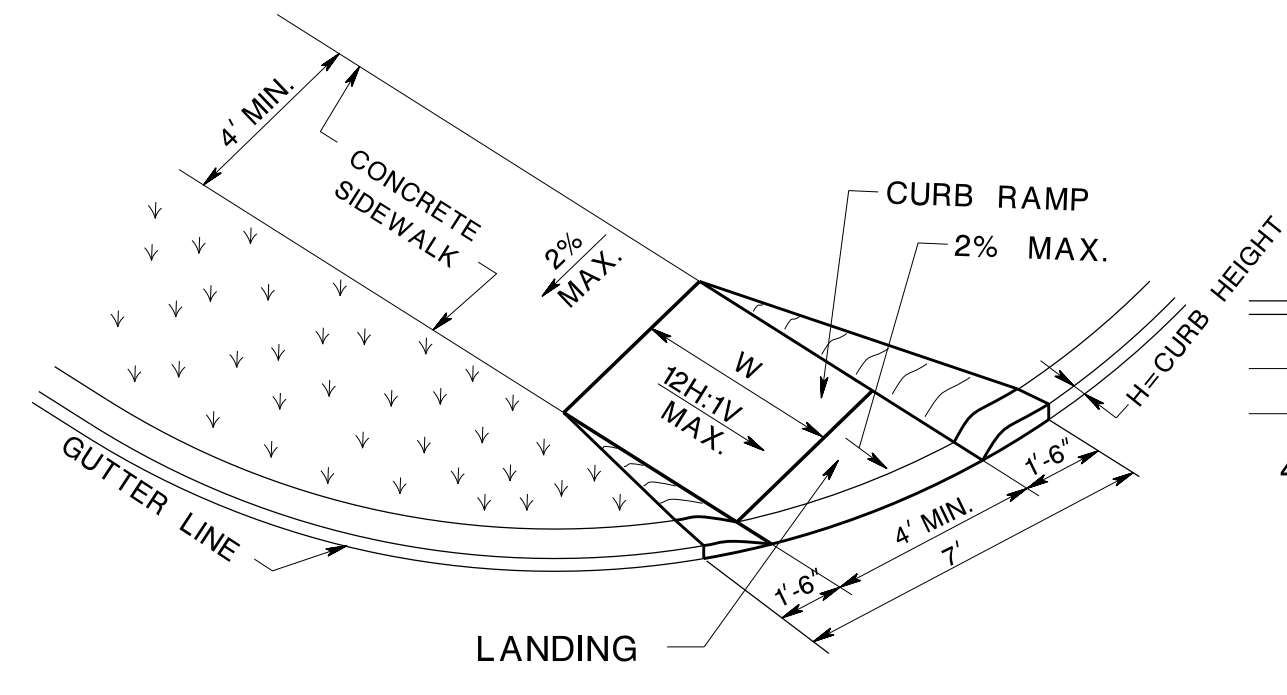
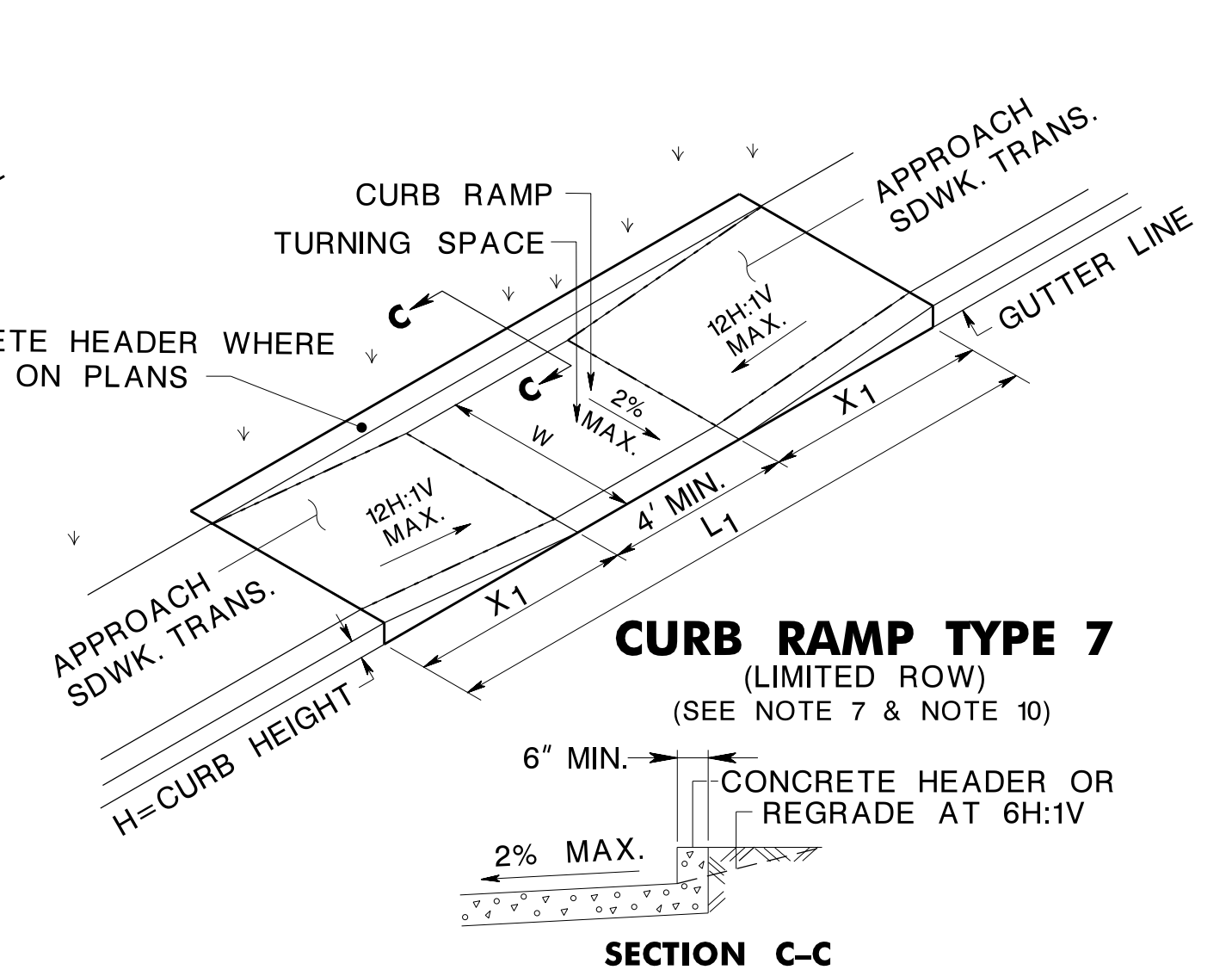
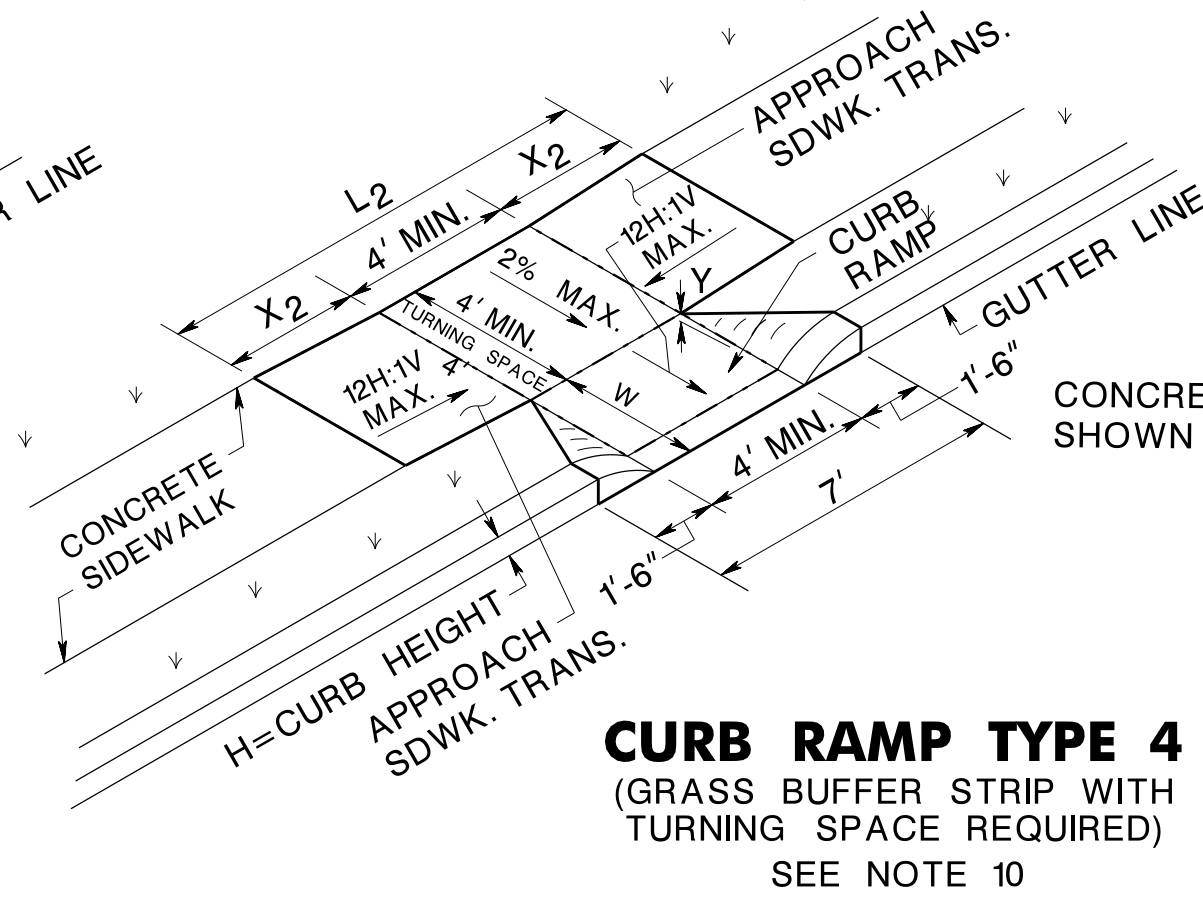
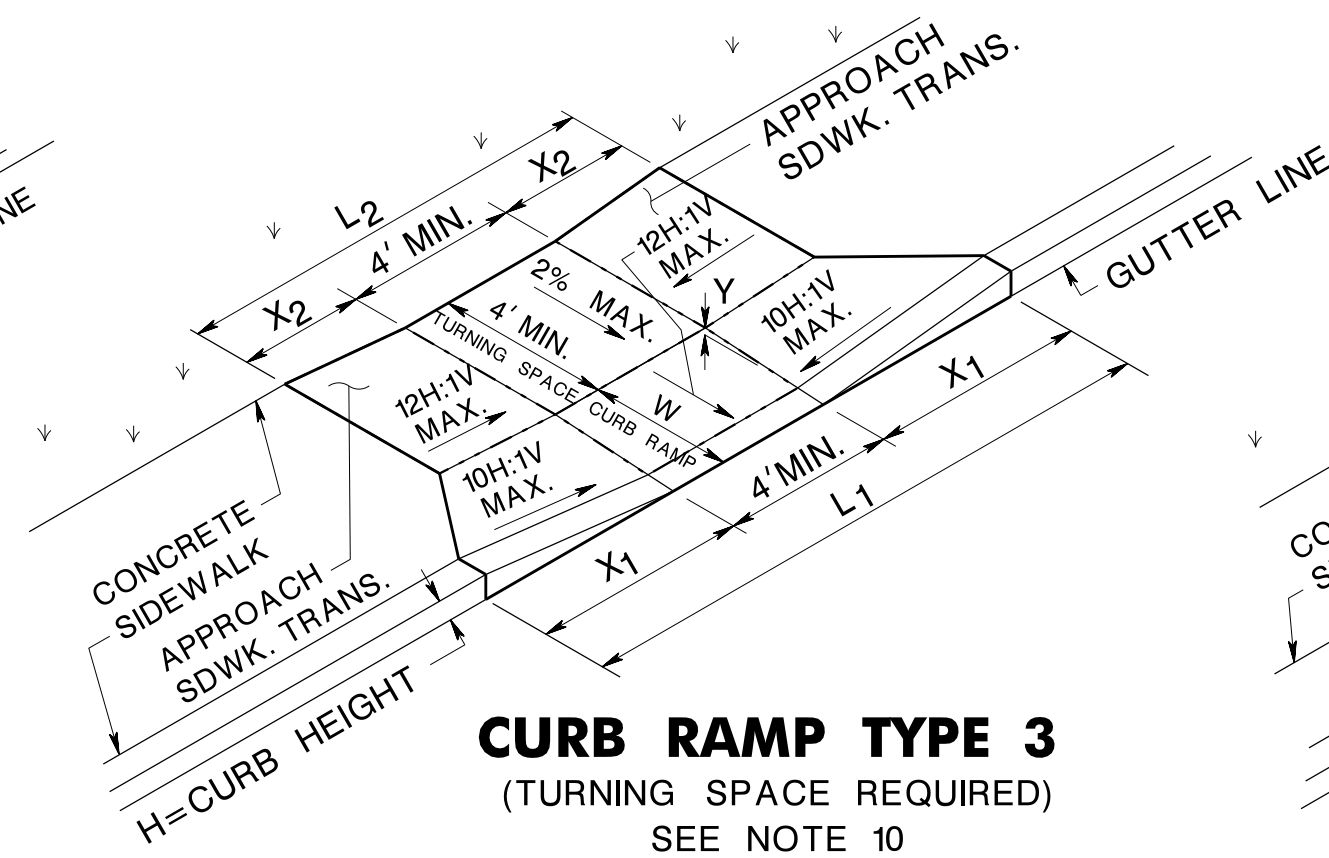
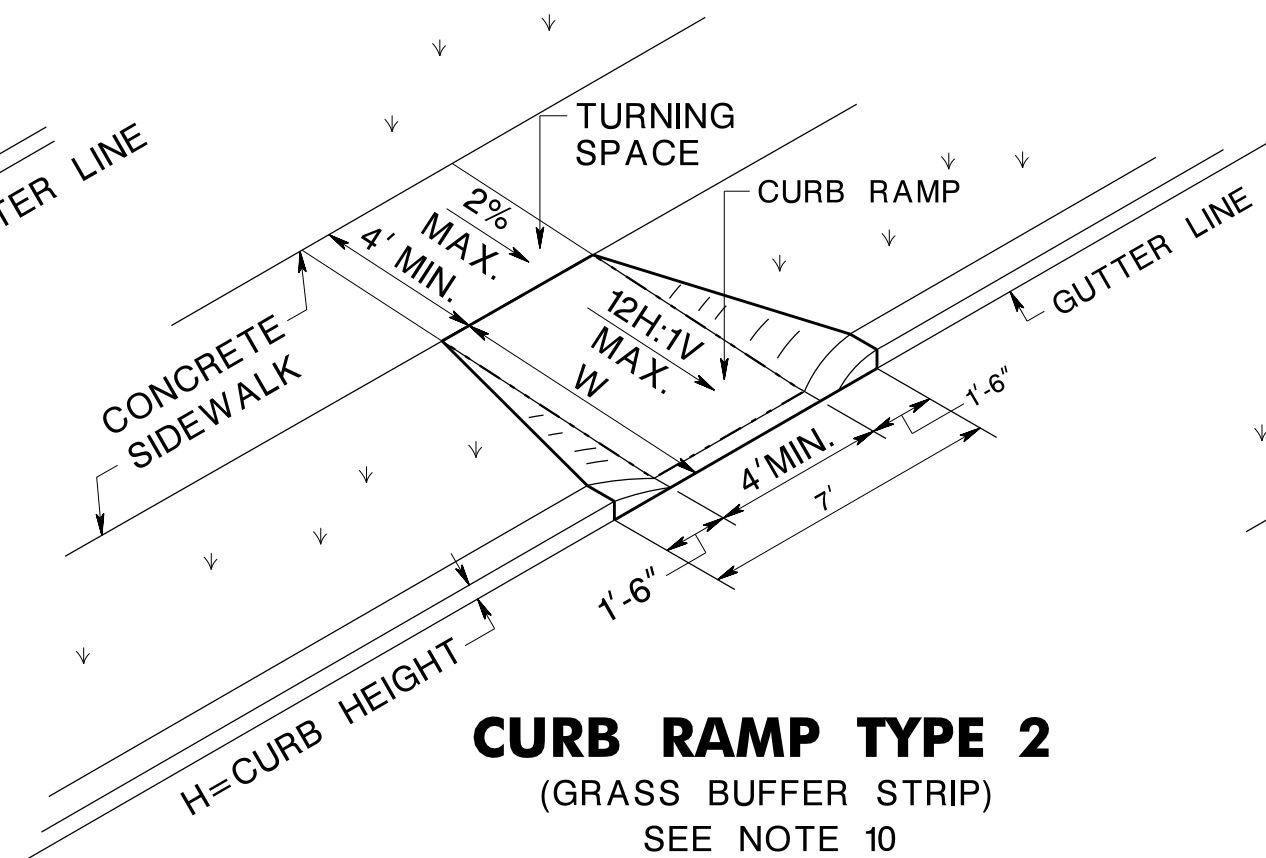
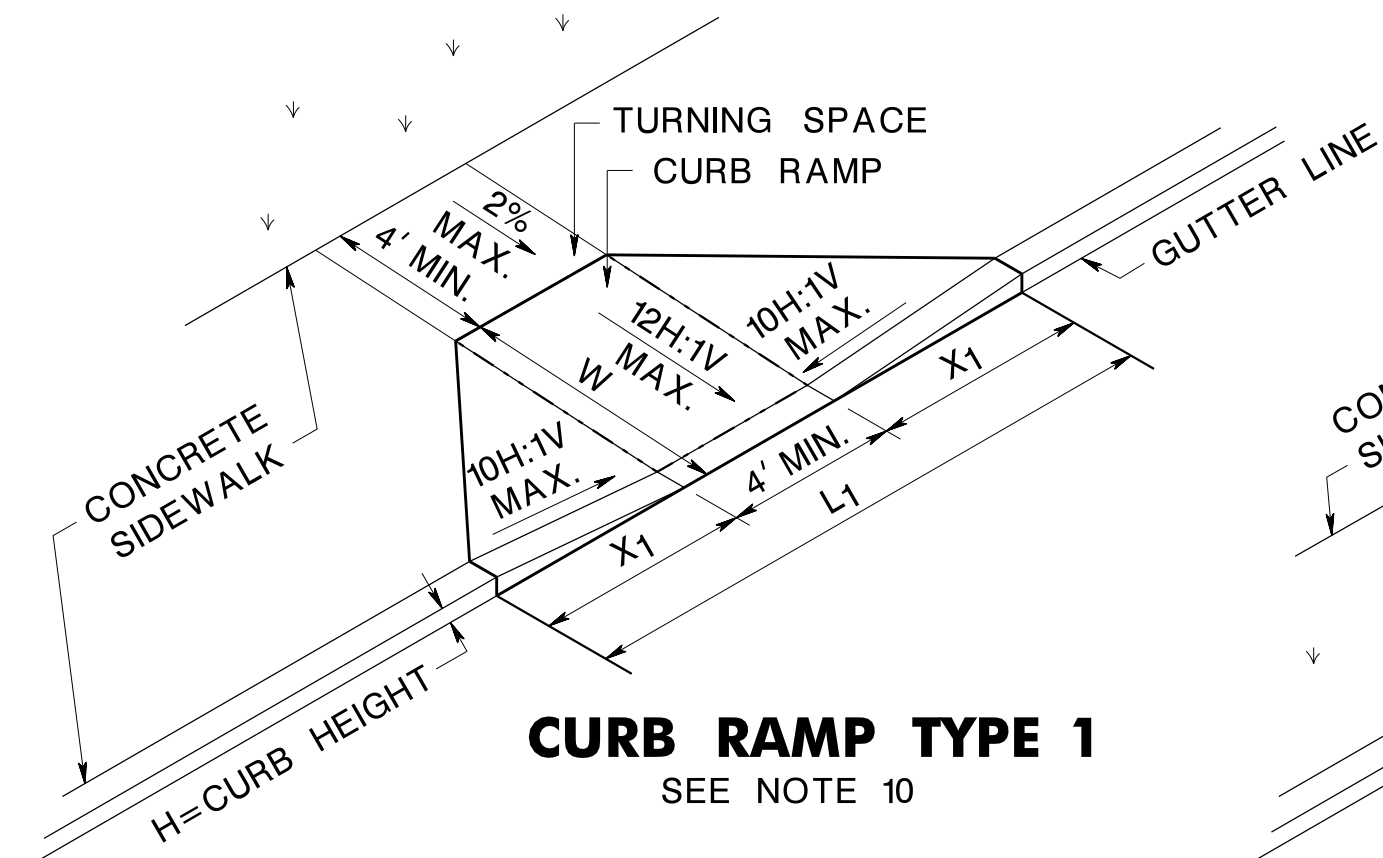
56

USERNAME: Trevor.Malik

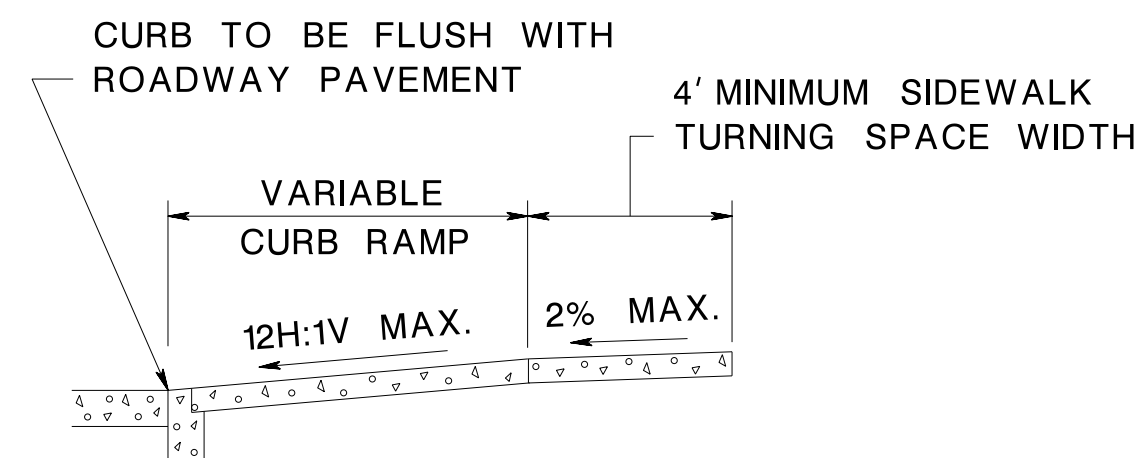
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BDC16D-01-ORIGINAL SHEET

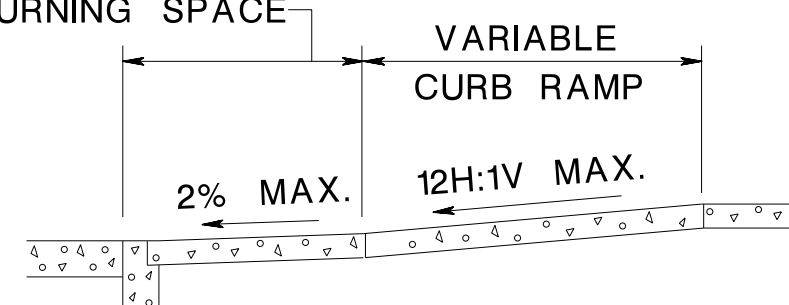


NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY
PAVEMENT (CURB RAMP TYPES 5 & 6).



SECTION THROUGH CURB RAMPS 1 THROUGH 4

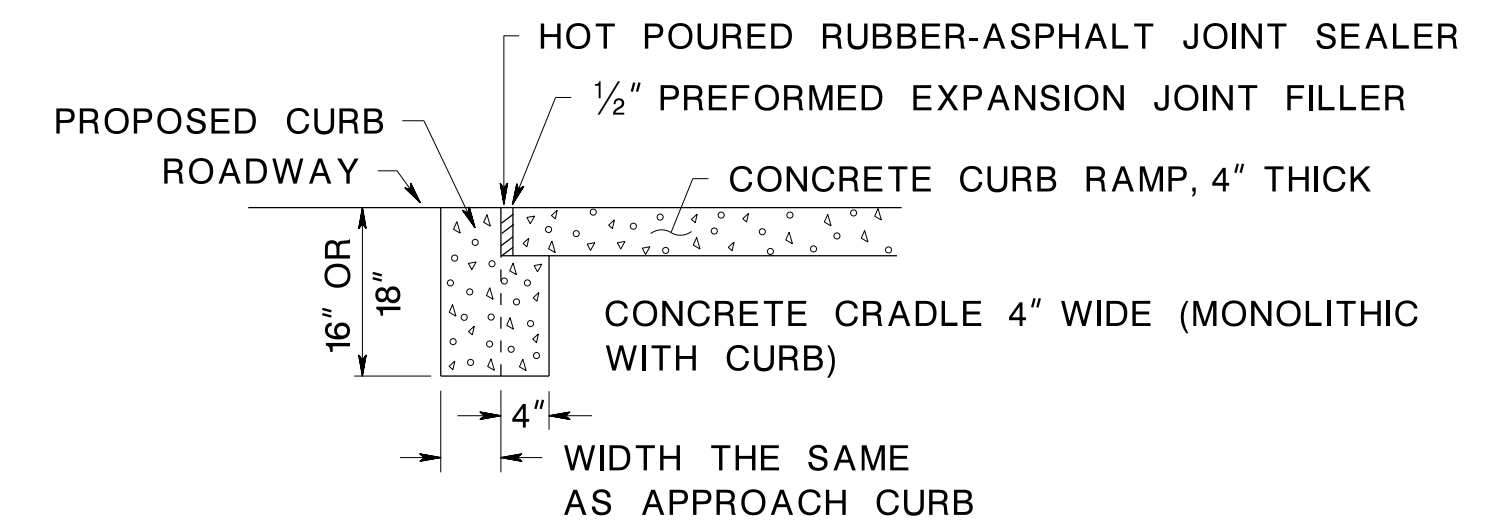
VARIABLE LANDING OR
TURNING SPACE



SECTION THROUGH CURB RAMPS 5 AND 6

- NOTES:**

1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
2. FOR DIMENSIONS SEE CD-606-3 AND CD-606-4
3. CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT THE ENTIRE WIDTH OF THE RAMP (4 FEET MIN.) AT ALL CURB RAMPS.
4. FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
5. SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
6. CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
7. WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
8. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
9. THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS x_2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
10. CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.



DROPPED CURB AND CRADLE

CONCRETE SIDEWALK
(PUBLIC SIDEWALK CURB RAMP)
N.T.S.

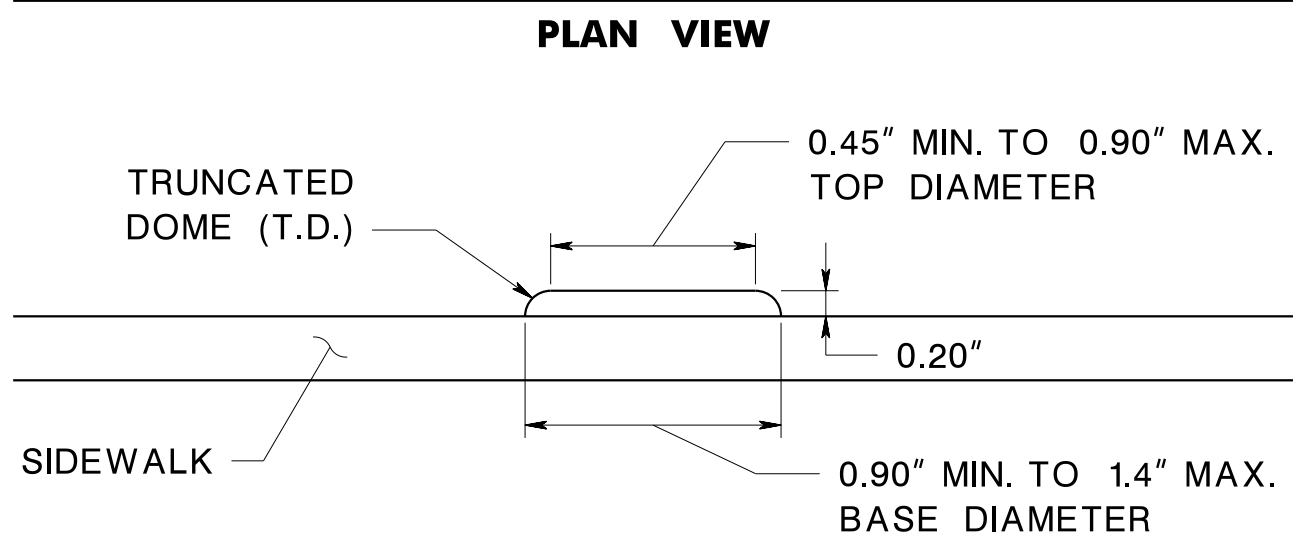
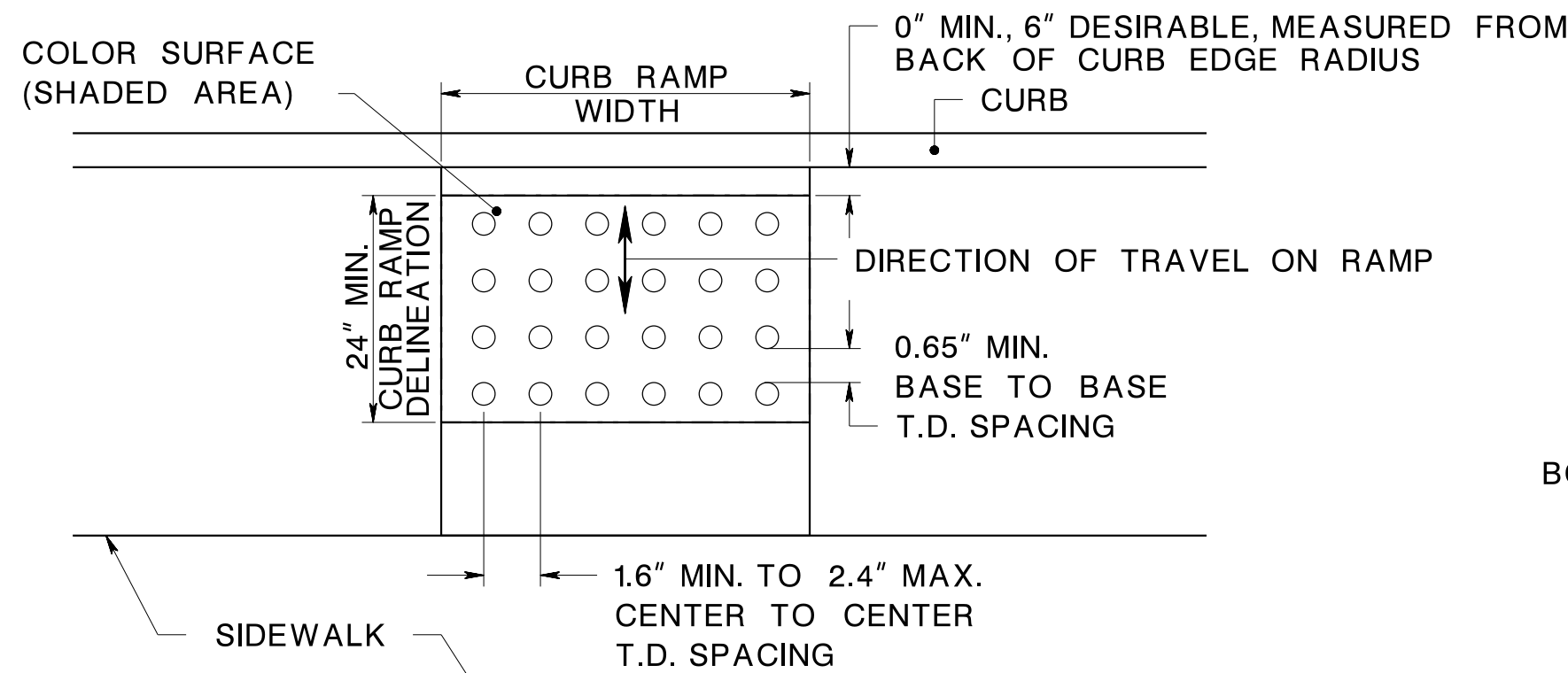
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION DETAIL

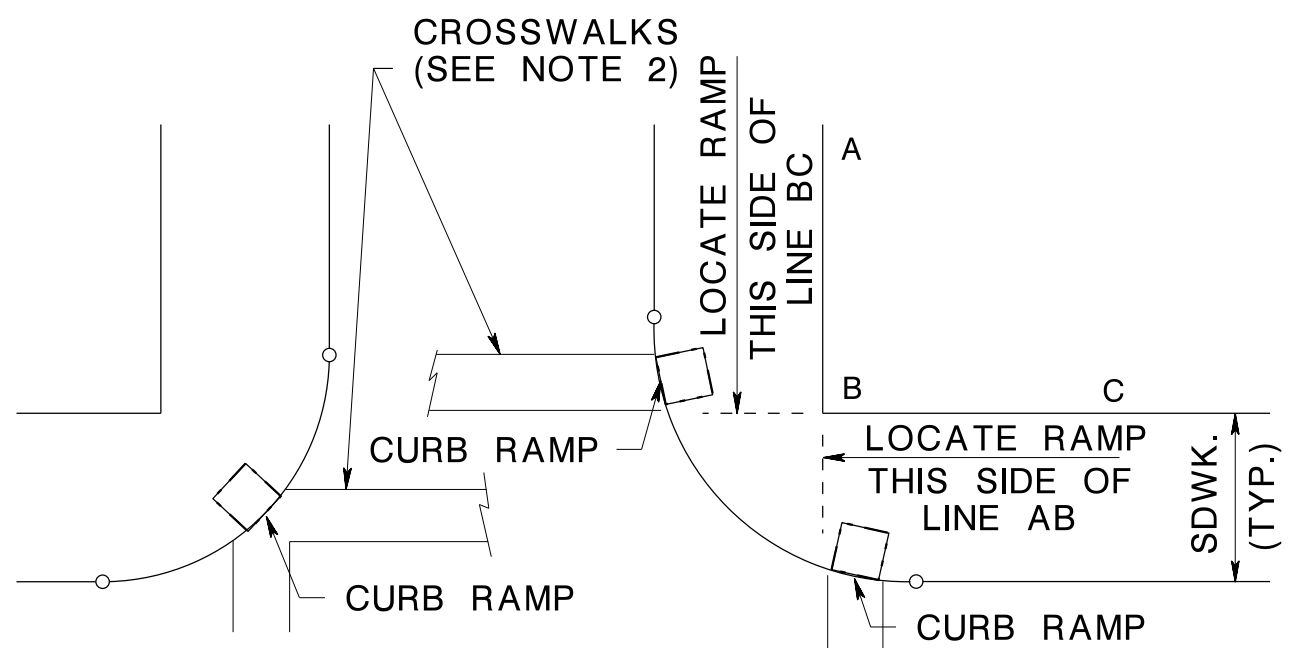
**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

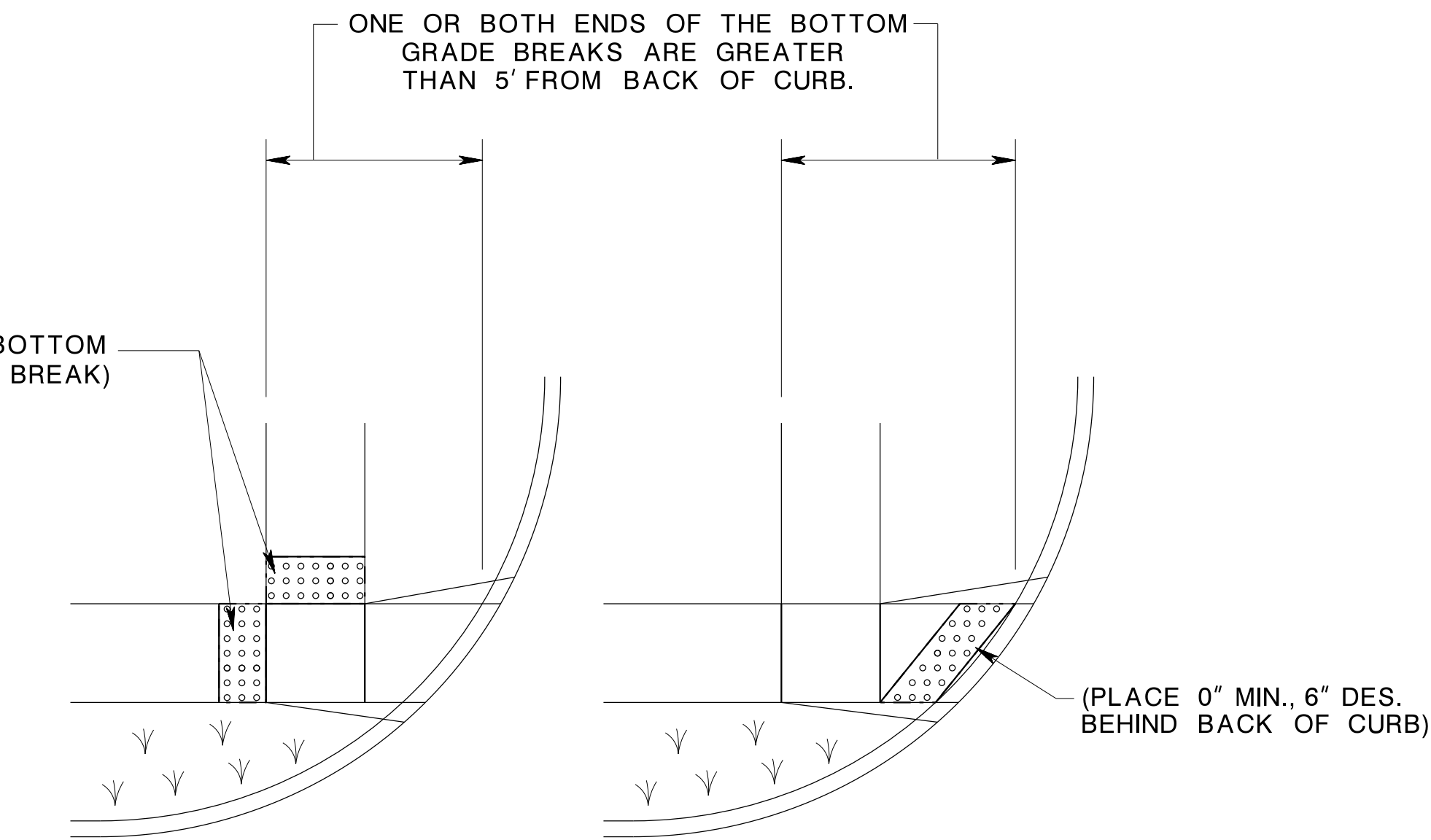
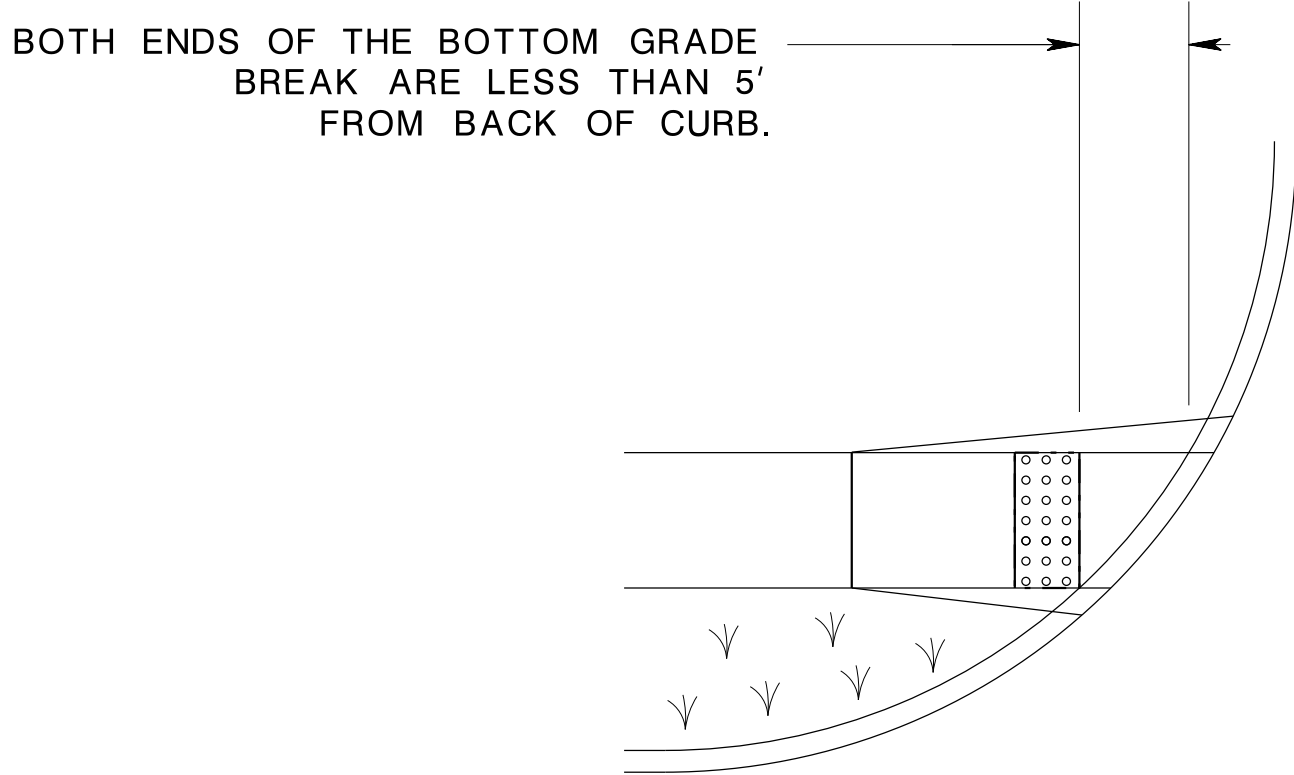
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



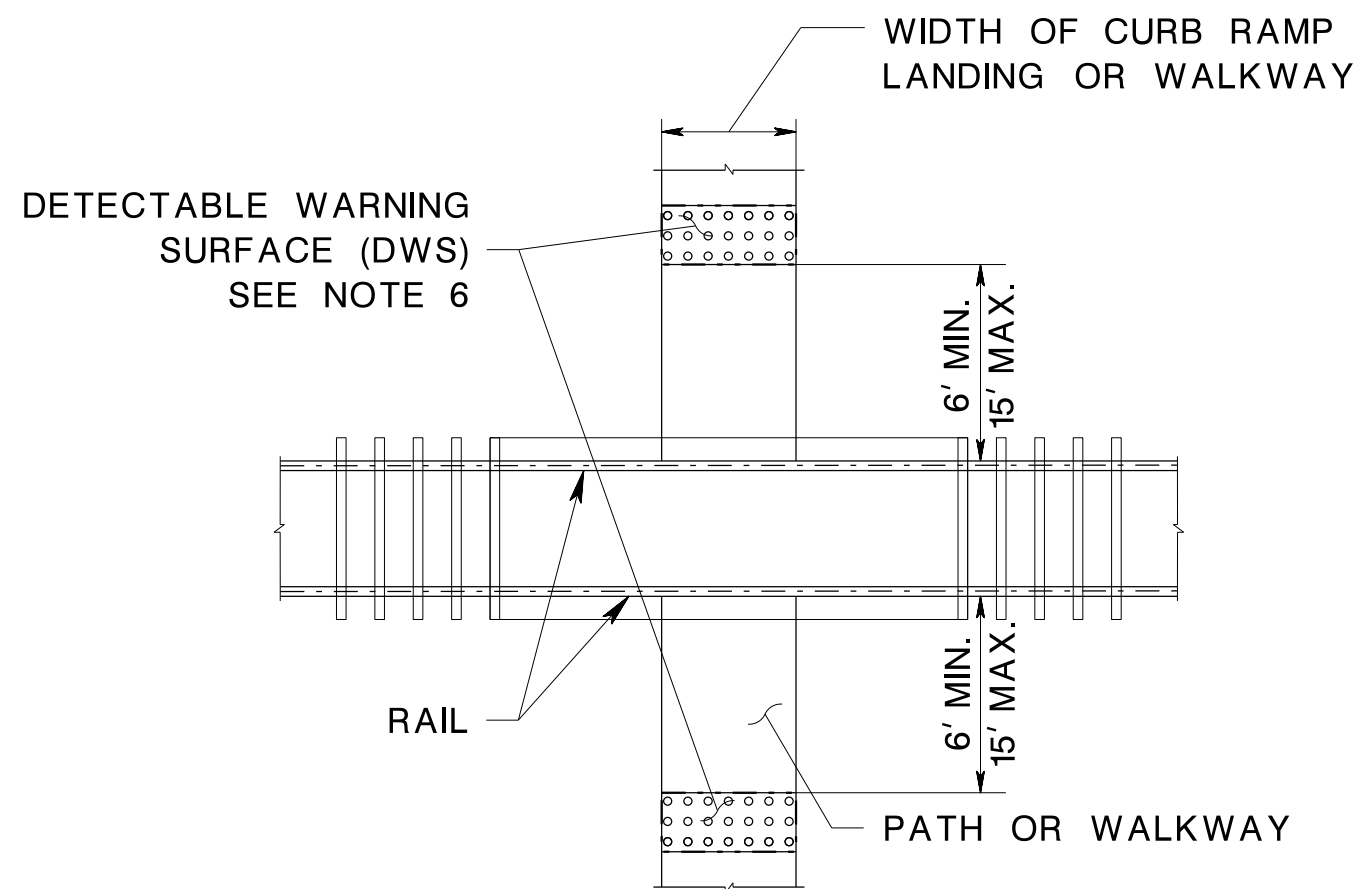
DETECTABLE WARNING SURFACE



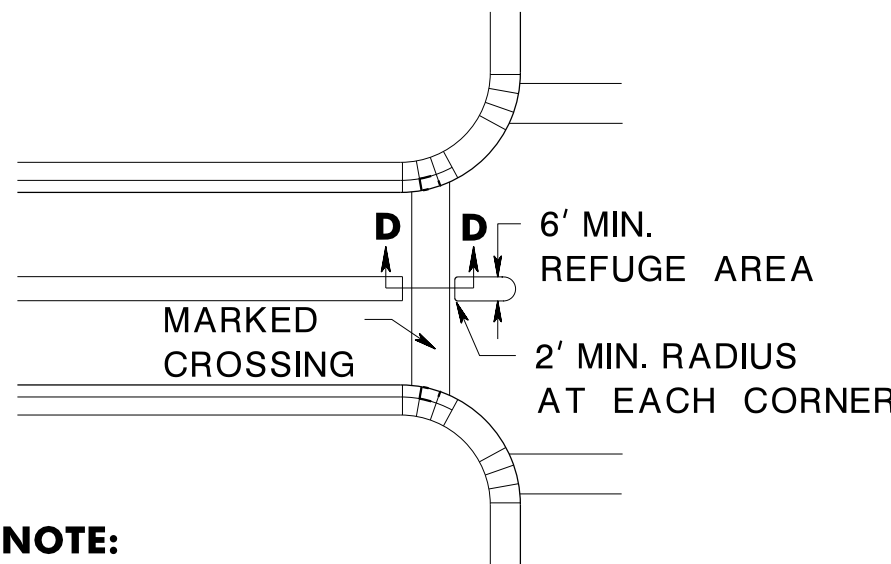
LOCATION OF CURB RAMP TYPES 1, 2, 3, 4, & 7 FOR CROSSING PARALLEL AND PERPENDICULAR TO HIGHWAY



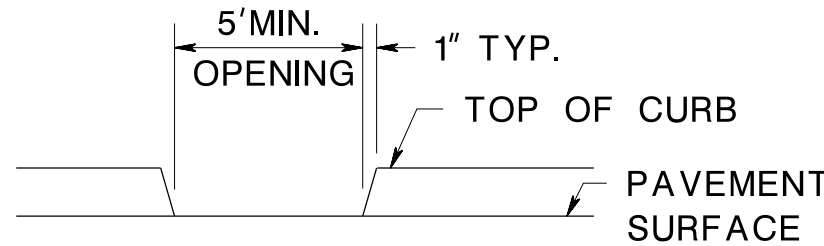
PLACEMENT OF DETECTABLE WARNING SURFACE FOR CURB RAMP TYPE 5 AND 6



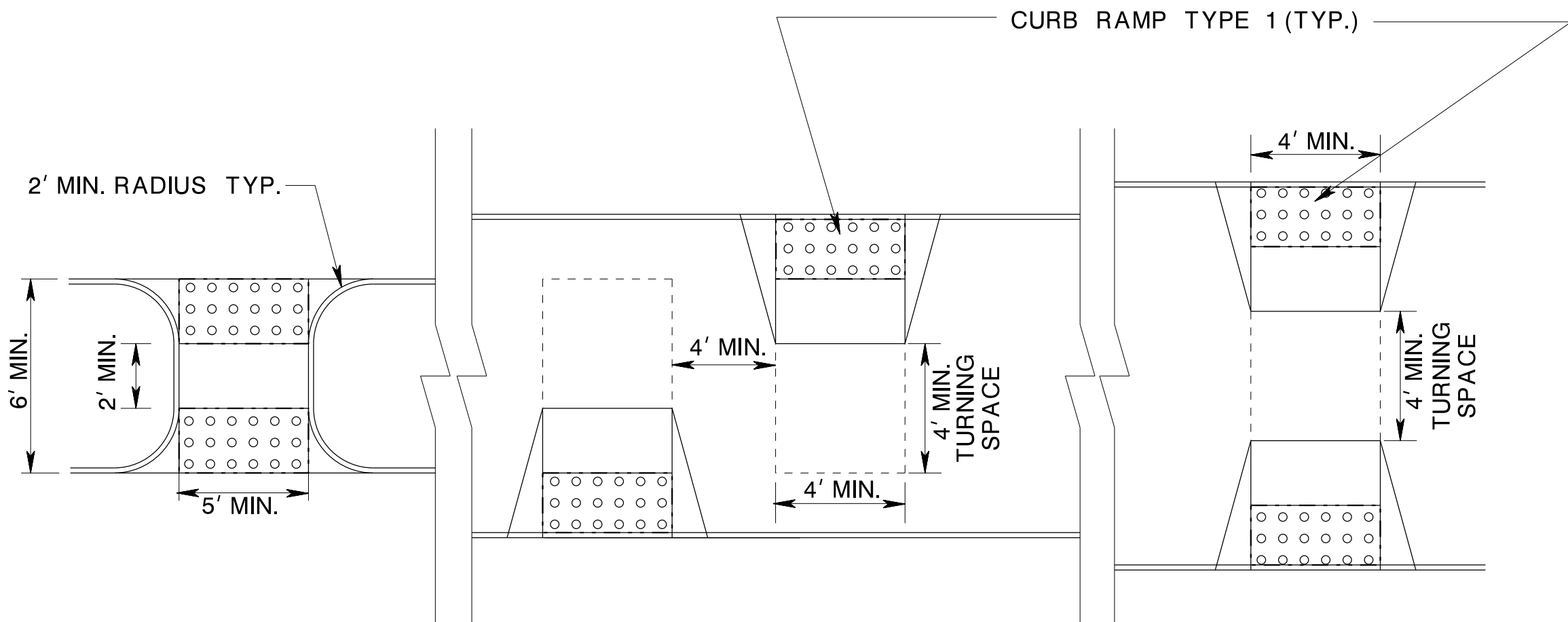
PEDESTRIAN RAILROAD CROSSING



NOTE:
WHERE PRACTICAL, END LEFT TURN ISLAND OR DIVISIONAL ISLAND BEFORE CROSSWALK TO ELIMINATE CUT-THROUGH



PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS



PEDESTRIAN REFUGE ISLAND

DETECTABLE WARNING SURFACE N.T.S.

- NOTES:**
1. KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SURFACE.
 2. CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED, SEE PLANS.
 3. FOR NARROW ISLAND WIDTH, SEE PEDESTRIAN REFUGE ISLAND WALKWAY OPENING AT INTERSECTIONS DETAIL.
 4. FOR MEDIUM AND LARGE ISLAND WIDTH, SEE CURB RAMP TYPE 1 ON CD-606-1.
 5. CONSTRUCT CURB RAMP TYPES 1, 2, 3, 4, & 7 PERPENDICULAR TO CURBLINE, AS SHOWN.
 6. IF A CURB RAMP IS REQUIRED, THE LOCATION OF THE DETECTABLE WARNING SURFACE MUST BE AT THE BOTTOM OF THE RAMP AND WITHIN THE REQUIRED DISTANCE FROM THE RAIL.
 7. A STANDARD DETECTABLE WARNING (DWS) SURFACE IS NOT AVAILABLE TO FIT THIS APPLICATION, AND THEREFORE ONE WILL NEED TO BE CUSTOMIZED. THE DWS SHOULD COVER THE ENTIRE WIDTH OF THE RAMP. THE ROWS OF DOMES ON THE DWS SHOULD FOLLOW THE DIRECTION OF TRAVEL OF THE RAMP, SO PEDESTRIANS WHO USE MOBILE DEVICES CAN TRACK BETWEEN THE DOMES.

COUNTY OF UNION DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES	
CONSTRUCTION DETAIL	
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE	
MICHAEL BAKER INTERNATIONAL, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA27954700	
BRAD J. MILLER NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300	

CURB RAMP TYPE 1

0.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	2.50	2.50	9.00
4	4	3.33	3.33	10.67
5	5	4.17	4.17	12.33
6	6	5.00	5.00	14.00
7	7	5.83	5.83	15.67
8	8	6.67	6.67	17.33
9	9	7.50	7.50	19.00

1.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	2.78	2.27	9.05
4	4	3.70	3.03	10.73
5	5	4.63	3.79	12.42
6	6	5.56	4.55	14.10
7	7	6.48	5.30	15.78
8	8	7.41	6.06	17.47
9	9	8.33	6.82	19.15

2.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	3.13	2.08	9.21
4	4	4.17	2.78	10.94
5	5	5.21	3.47	12.68
6	6	6.25	4.17	14.42
7	7	7.29	4.86	16.15
8	8	8.33	5.56	17.89
9	9	9.38	6.25	19.63

3.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	3.57	1.92	9.49
4	4	4.76	2.56	11.33
5	5	5.95	3.21	13.16
6	6	7.14	3.85	14.99
7	7	8.33	4.49	16.82
8	8	9.52	5.13	18.65
9	9	10.71	5.77	20.48

4.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	4.17	1.79	9.95
4	4	5.56	2.38	11.94
5	5	6.94	2.98	13.92
6	6	8.33	3.57	15.90
7	7	9.72	4.17	17.89
8	8	11.11	4.76	19.87
9	9	12.50	5.36	21.86

5.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	5.00	1.67	10.67
4	4	6.67	2.22	12.89
5	5	8.33	2.78	15.11
6	6	10.00	3.33	17.33
7	7	11.67	3.89	19.56
8	8	13.33	4.44	21.78
9	9	15.00	5.00	24.00

6.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	6.25	1.56	11.81
4	4	8.33	2.08	14.42
5	5	10.42	2.60	17.02
6	6	12.50	3.13	19.63
7	7	14.58	3.65	22.23
8	8	15.00	4.17	23.17
9	9	15.00	4.69	23.69

7.0 % GUTTER LINE PROFILE				
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET
3	3	8.33	1.47	13.80
4	4	11.11	1.96	17.07
5	5	13.89	2.45	20.34
6	6	15.00	2.94	21.94
7	7	15.00	3.43	22.43
8	8	15.00	3.92	22.92
9	9	15.00	4.41	23.41

CURB RAMP TYPE 3

0.0 % GUTTER LINE PROFILE								
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.50	2.50	9.00	2.75	0.91	0.91	5.82
4		3.33	3.33	10.67		1.91	1.91	7.82
5		4.17	4.17	12.33		2.91	2.91	9.82
6		5.00	5.00	14.00		3.91	3.91	11.83
7		5.83	5.83	15.67		4.91	4.91	13.83
8		6.67	6.67	17.33		5.91	5.91	15.83
9		7.50	7.50	19.00		6.91	6.91	17.83

3	3.0	3.33	3.33	10.67	3.0	1.72	1.72	7.44
4		4.17	4.17	12.33		2.72	2.72	9.44
5		5.00	5.00	14.00		3.72	3.72	11.45
6		5.83	5.83	15.67		4.72	4.72	13.45
7		6.67	6.67	17.33		5.72	5.72	15.45
8		7.50	7.50	19.00		6.72	6.72	17.45
3	3.5	*	*	*	3.5	*	*	*
4		3.33	3.33	10.67		1.34	1.34	6.68
5		4.17	4.17	12.33		2.34	2.34	8.68
6		5.00	5.00	14.00		3.34	3.34	10.68
7		5.83	5.83	15.67		4.34	4.34	12.68
8		6.67	6.67	17.33		5.34	5.34	14.68

7	4.0	3.63	5.83	15.67	4.0	4.34	4.34	12.69
8		6.87	6.67	17.33		5.34	5.34	14.69
9		7.50	7.50	19.00		6.34	6.34	16.69
3		*	*	*		*	*	*
4		*	*	*		*	*	*
5		4.17	4.17	12.33		1.96	1.96	7.92
6		5.00	5.00	14.00		2.96	2.96	9.93
7		5.83	5.83	15.67		3.96	3.96	11.93
8		6.67	6.67	17.33		4.96	4.96	13.93
9	7.50	7.50	19.00	5.96	5.96	15.93		

4.0 % GUTTER LINE PROFILE								
H INCHES	W FEET	X _{1U} FEET	X _{1L} FEET	L ₁ FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	4.17	1.79	9.95	2.75	1.75	0.62	6.37
4		5.56	2.38	11.94		3.68	1.29	8.97
5		6.94	2.98	13.92		5.60	1.97	11.57
6		8.33	3.57	15.90		7.53	2.64	14.17
7		9.72	4.17	17.89		9.45	3.32	16.77
8		11.11	4.76	19.87		11.38	4.00	19.37

CURB RAMP TYPE 4

0.0 % GUTTER LINE PROFILE					
H	W	Y	X _{2U}	X _{2L}	L ₂
INCHES	FEET	INCHES	FEET	FEET	FEET
3	2.75	2.75	0.91	0.91	5.82
4			1.91	1.91	7.82
5			2.91	2.91	9.82
6			3.91	3.91	11.82
7			4.91	4.91	13.83
8			5.91	5.91	15.83
9			6.91	6.91	17.83
3			**	**	**
4			1.72	1.72	7.44
5	3.0	3.0	2.72	2.72	9.44
6			3.72	3.72	11.45
7			4.72	4.72	13.45
8			5.72	5.72	15.45
9			6.72	6.72	17.45
3			**	**	**
4			1.34	1.34	6.68
5			2.34	2.34	8.68
6			3.34	3.34	10.69
7	3.5	3.5	4.34	4.34	12.69
8			5.34	5.34	14.69
9			6.34	6.34	16.69
3			**	**	**
4			**	**	**
5			1.96	1.96	7.92
6			2.96	2.96	9.93
7			3.96	3.96	11.93
8			4.96	4.96	13.93
9			5.96	5.96	15.93

1.0 % GUTTER LINE PROFILE					
H	W	Y	X _{2U}	X _{2L}	L ₂
INCHES	FEET	INCHES	FEET	FEET	FEET
3	2.75	2.75	1.04	0.81	5.85
4			2.17	1.71	7.88
5			3.31	2.60	9.91
6			4.45	3.49	11.94
7			5.58	4.39	13.97
8			6.72	5.28	16.00
9			7.86	6.17	18.03
3			0.82	0.64	5.46
4			1.96	1.54	7.49
5	3.0	3.0	3.09	2.43	9.52
6			4.23	3.32	11.55
7			5.37	4.22	13.58
8			6.50	5.11	15.61
9			7.64	6.00	17.64
3			0.39	0.30	4.69
4			1.53	1.20	6.72
5			2.66	2.09	8.75
6			3.80	2.98	10.78
7	3.5	3.5	4.94	3.88	12.81
8			6.07	4.77	14.84
9			7.21	5.66	16.87
3			**	**	**
4			1.09	0.86	5.95
5			2.23	1.75	7.98
6			3.37	2.65	10.01
7			4.50	3.54	12.04
8			5.64	4.43	14.07
9			6.78	5.32	16.10

2.0 % GUTTER LINE PROFILE					
H	W	Y	X _{2U}	X _{2L}	L ₂
INCHES	FEET	INCHES	FEET	FEET	FEET
3	2.75	2.75	1.20	0.73	5.93
4			2.52	1.54	8.06
5			3.83	2.35	10.18
6			5.15	3.16	12.30
7			6.47	3.96	14.43
8			7.78	4.77	16.55
9			9.10	5.58	18.67
3			0.95	0.58	5.53
4			2.27	1.39	7.65
5	3.0	3.0	3.58	2.20	9.78
6			4.90	3.00	11.90
7			6.22	3.81	14.02
8			7.53	4.62	16.15
9			8.85	5.42	18.27
3			0.45	0.28	4.72
4			1.77	1.08	6.85
5			3.08	1.89	8.97
6			4.40	2.70	11.09
7	3.5	3.5	5.72	3.50	13.22
8			7.03	4.31	15.34
9			8.35	5.12	17.46
3			**	**	**
4			1.27	0.78	6.04
5			2.58	1.58	8.16
6			3.90	2.39	10.29
7			5.22	3.20	12.41
8			6.53	4.00	14.53
9			7.85	4.81	16.66

3.0 % GUTTER LINE PROFILE					
H	W	Y	X _{2U}	X _{2L}	L ₂
INCHES	FEET	INCHES	FEET	FEET	FEET
3	2.75	2.75	1.42	0.67	6.09
4			2.99	1.41	8.39
5			4.55	2.14	10.69
6			6.11	2.88	12.99
7			7.68	3.61	15.29
8			9.24	4.35	17.59
9			10.81	5.08	19.89
3			1.13	0.53	5.66
4			2.69	1.27	7.96
5	3.0	3.0	4.25	2.00	10.26
6			5.82	2.74	12.55
7			7.38	3.47	14.85
8			8.94	4.21	17.15
9			10.51	4.94	19.45
3			0.53	0.25	4.78
4			2.10	0.99	7.08
5			3.66	1.72	9.38
6			5.22	2.46	11.68
7	3.5	3.5	6.79	3.19	13.98
8			8.35	3.93	16.28
9			9.91	4.66	18.58
3			**	**	**
4			1.50	0.71	6.21
5			3.07	1.44	8.51
6			4.63	2.18	10.81
7			6.19	2.91	13.11
8			7.76	3.65	15.41
9			9.32	4.38	17.71

CURB RAMP TYPE 7

0.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	3.00	3.00	10.00
4		4.00	4.00	12.00
5		5.00	5.00	14.00
6		6.00	6.00	16.00
7		7.00	7.00	18.01
8		8.00	8.00	20.01
9		9.00	9.00	22.01

1.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	3.41	2.68	10.09
4		4.55	3.57	12.12
5		5.68	4.47	14.15
6		6.82	5.36	16.18
7		7.96	6.25	18.21
8		9.10	7.15	20.24
9		10.23	8.04	22.27

2.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	3.95	2.42	10.37
4		5.27	3.23	12.49
5		6.58	4.03	14.62
6		7.90	4.84	16.74
7		9.22	5.65	18.86
8		10.53	6.45	20.99
9		11.85	7.26	23.11

3.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	4.69	2.21	10.90
4		6.25	2.94	13.20
5		7.82	3.68	15.49
6		9.38	4.41	17.79
7		10.94	5.15	20.09
8		12.51	5.88	22.39
9		14.07	6.62	24.69

4.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	5.77	2.03	11.80
4		7.70	2.70	14.40
5		9.62	3.38	17.00
6		11.55	4.06	19.60
7		13.47	4.73	22.20
8		15.40	5.41	24.80
9		17.32	6.08	27.40

5.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	7.51	1.88	13.38
4		10.01	2.50	16.51
5		12.51	3.13	19.64
6		15.00	3.75	22.75
7		15.00	4.38	23.38
8		15.00	5.00	24.00
9		15.00	5.63	24.63

6.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	10.73	1.74	16.47
4		14.31	2.33	20.63
5		15.00	2.91	21.91
6		15.00	3.49	22.49
7		15.00	4.07	23.07
8		15.00	4.65	23.65
9		15.00	5.23	24.23

7.0 % GUTTER LINE PROFILE				
H	W	X _{1U}	X _{1L}	L ₁
INCHES	FEET	FEET	FEET	FEET
3	4' MIN. 7' MAX.	15.00	1.63	20.63
4		15.00	2.17	21.17
5		15.00	2.72	21.72
6		15.00	3.26	22.26
7		15.00	3.81	22.81
8		15.00	4.35	23.35
9		15.00	4.89	23.89

4.0 % GUTTER LINE PROFILE					
H INCHES	W FEET	Y INCHES	X _{2U} FEET	X _{2L} FEET	L ₂ FEET
3	2.75	2.75	1.75	0.62	6.37
4			3.68	1.29	8.97
5			5.60	1.97	11.57
6			7.53	2.64	14.17
7			9.45	3.32	16.77
8			11.38	4.00	19.37
9			13.30	4.67	21.97
3	3.0	3.0	1.39	0.49	5.88
4			3.31	1.16	8.48
5			5.24	1.84	11.08
6			7.16	2.52	13.68
7			9.09	3.19	16.28
8			11.01	3.87	18.88
9			12.94	4.54	21.48
3	3.5	3.5	0.66	0.23	4.89
4			2.58	0.91	7.49
5			4.51	1.58	10.09
6			6.43	2.26	12.69
7			8.36	2.93	15.29
8			10.28	3.61	17.89
9			12.20	4.29	20.49
3	4.0	4.0	**	**	**
4			1.85	0.65	6.50
5			3.78	1.33	9.10
6			5.70	2.00	11.70
7			7.62	2.68	14.30
8			9.55	3.35	16.90
9			11.47	4.03	19.50

GENERAL NOTES:

1. ALL MATERIAL, REPAIR STRIPS, AND EXCAVATION FOR DRIVEWAY CONSTRUCTION TO BE INCLUDED IN THE BID PRICE FOR HMA DRIVEWAY, CONCRETE DRIVEWAY, OR CONCRETE CURB.
2. USE HMA SURFACE COURSE FOR HMA DRIVEWAY.
3. CONSTRUCT 5 FEET LONG DRIVEWAY UNLESS OTHERWISE SHOWN ON PLANS OR AS DIRECTED.
4. MAINTAIN EXISTING DIRECTION OF FLOW ON DRIVEWAY.
5. USE DENSE GRADED AGGREGATE BASE COURSE TO PROVIDE TEMPORARY ACCESS DURING DRIVEWAY CONSTRUCTION.
6. DENSE GRADED AGGREGATE BASE COURSE.
7. WHERE SIDEWALK CROSSES DRIVEWAY PROVIDE A 2% MAXIMUM SIDEWALK CROSS SLOPE WITHIN DRIVEWAY AREA.

CD-606-5.7

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- The diagram illustrates a plan view of a driveway treatment. A central rectangular area is labeled "5'-0" (TYP.)" with a vertical double-headed arrow. This area is flanked by two trapezoidal sections, each labeled "2'-0" (TYP.)" with a horizontal double-headed arrow. The right side of the diagram is labeled "E.O.P." (End of Project). Below the central area, a horizontal line is labeled "WIDTH AS SHOWN ON PLANS". Below this line, a dashed rectangular area is labeled "EXISTING DRIVEWAY".

The diagram illustrates a cross-section of a concrete sidewalk. A vertical line on the left is labeled "GUTTER LINE". To the right of the gutter line, a horizontal line represents the sidewalk surface, which slopes downward to the right. The slope is indicated by a triangle with a vertical side of 2 and a horizontal side of 100, labeled "2% MAX". Below the surface line, a horizontal dimension of 4' is shown, labeled "4'-0\"". A vertical dimension of 4\" is shown, labeled "4\"". The area between the gutter line and the 4' dimension is labeled "VAR.". The concrete base is labeled "CLASS B CONCRETE".

CONCRETE AND HMA, DRIVEWAY AND SIDEWALK

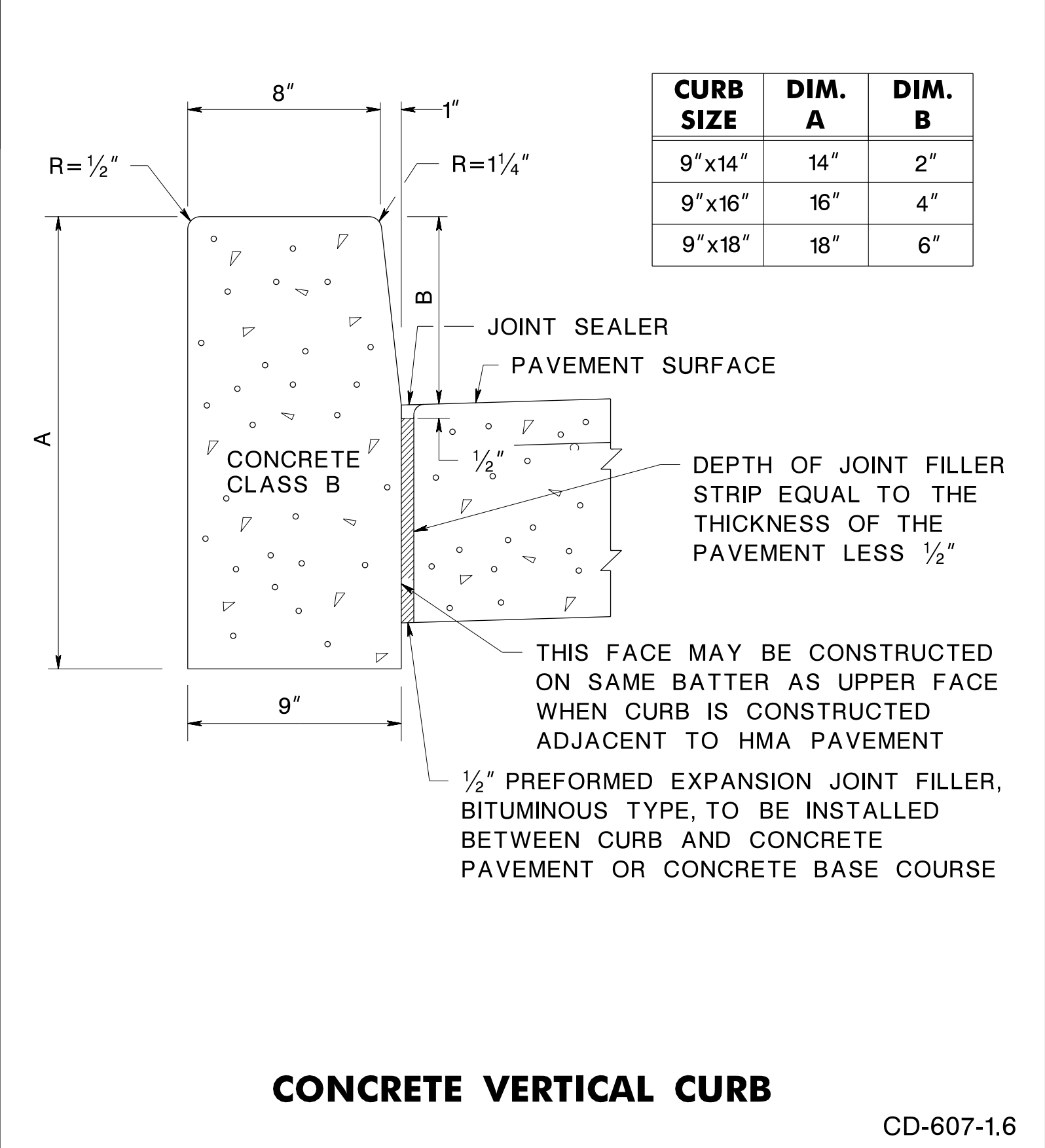
N.T.S.

CD-606-5

GENERAL NOTES APPLYING TO ALL TYPES OF DOWELLED CURBS

1. CONSTRUCT THE TRANSVERSE JOINTS AS SPECIFIED FOR THE CURB, EXCEPT THAT THE THICKNESS OF THE JOINT FILLER IN THE CURB TO BE AS FOLLOWS:
 - (a) $\frac{1}{2}$ INCH FOR INTERMEDIATE JOINTS AND JOINTS OVER DEFINITE CRACKS.
 - (b) $\frac{1}{2}$ INCH OVER PAVEMENT JOINTS WHERE SLAB LENGTH IS 50 FEET OR LESS.
 - (c) 1 INCH OVER PAVEMENT JOINTS WHERE SLAB LENGTH IS MORE THAN 50 FEET VARIABLE IN MULTIPLES OF $\frac{1}{2}$ INCH BUT NOT LESS THAN THE EXISTING WIDTH OF THE TRANSVERSE JOINTS IN BRIDGES AND THE JOINTS BETWEEN THE APPROACH SLABS AND BRIDGES.
2. FOR THICKNESS OF 1 INCH OR MORE, LAYERS OF $\frac{1}{2}$ INCH MATERIAL MAY BE GLUED OR OTHERWISE FASTENED TOGETHER BY A MEANS SATISFACTORY TO THE RE. WHERE THE REQUIRED JOINT OPENING EXCEEDS 1 INCH, THE CONTRACTOR MAY CONSTRUCT OPEN JOINTS, IF DESIRED.
3. WHERE DOWELLED CURB IS TO BE CONSTRUCTED ACROSS A LONGITUDINAL JOINT IN THE EXISTING PAVEMENT, THE DOWELS IN THE SHORTER PORTION OF THE CURB PANEL ARE TO BE OMITTED AND THE CURB IN THE PORTION OF THE PANEL TO BE CONSTRUCTED WITH 45# SMOOTH ROLL ROOFING BETWEEN IT AND THE EXISTING PAVEMENT.

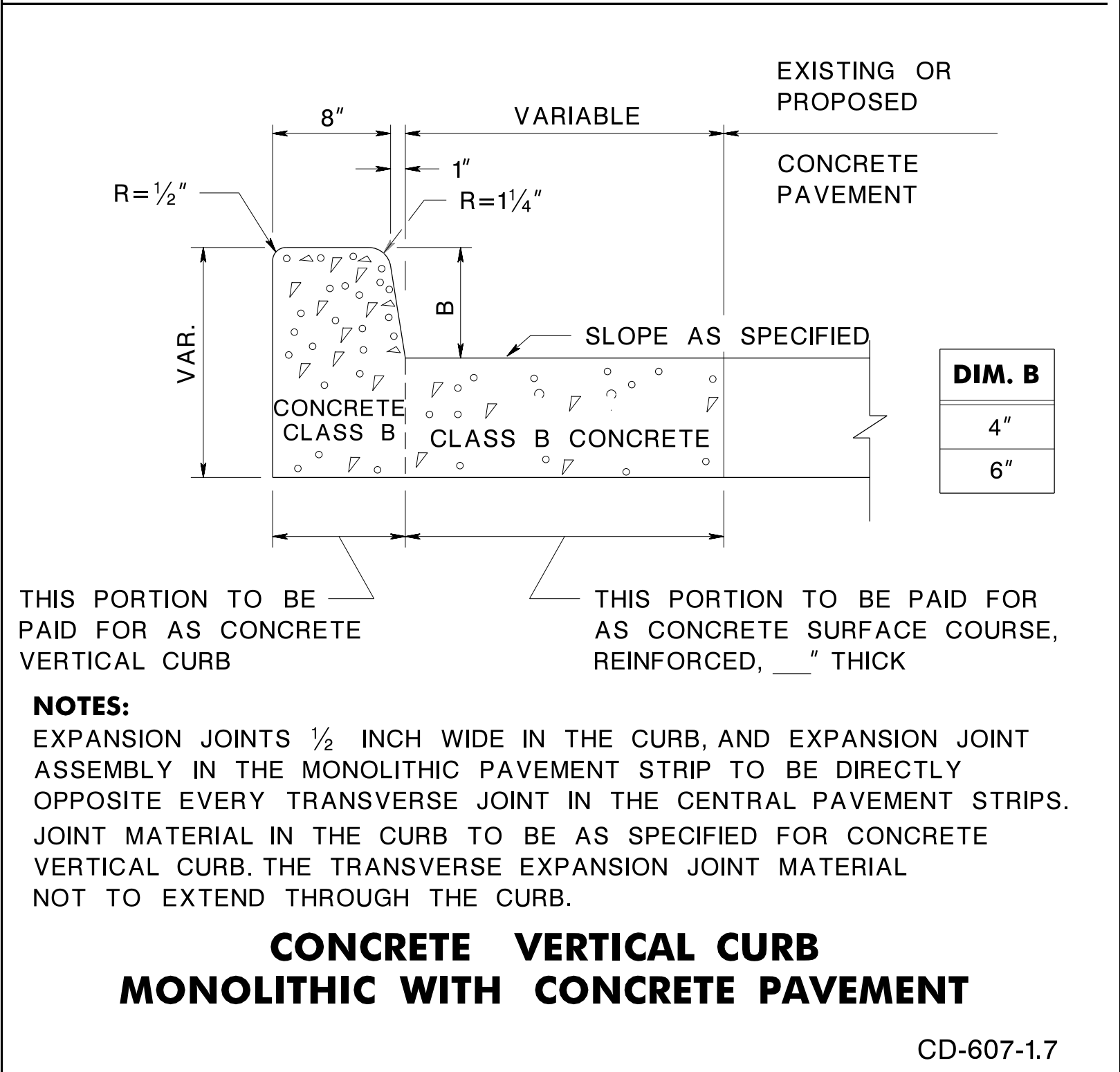
-
- CONCRETE VERTICAL CURB
- 10'-0"
- 10'-0"
- 2"
- INLET TYPE B
- GUTTER LINE
- 2"
- CURB TREATMENT AT BERM
SECTION AND ALL CURB ENDS**
- CD-607-2.2



CONCRETE AND GRANULAR

N.T.S.

NOTES:
REINFORCEMENT STEEL IS IN
HMA = HOT MIX ASPHALT



	CD-607-1	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> DTL-8 DTL-18 </div>
COUNTY OF UNION DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES		
CONSTRUCTION DETAIL INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE		
MICHAEL BAKER INTERNATIONAL, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA27954700		
BRAD J. MILLER NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300		

USERNAME:Trevor.Malik
DATE & TIME: 11-SEP-2022 11:49
MB:PW PATH LOCATION: PW://mb-us-pw-bentley.com/mb-us-pw-08/Documents/Hamilton, NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LSE/AP/B-1_Union-County/CADD/Plan/Contract-Sets/20_Detail/DTL-08.dgn

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

LEGEND

	BREAKAWAY BARRICADES
	BREAKAWAY BARRICADES WITH SIGN
	CONSTRUCTION SIGNS
	DRUMS
	CONE
	CONSTRUCTION BARRIER CURB (TYPE SPECIFIED)
	DIRECTION OF TRAFFIC FLOW
	TRAFFIC DIRECTOR, FLAGGER
	TRAILER MOUNTED MOUNTED ARROW BOARD SHOWING CAUTION MODE
	ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (LEFT, RIGHT, BOTH)
	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
	TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (LEFT, RIGHT, BOTH)
	TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
	TEMPORARY CRASH CUSHION, (ALL OTHER APPROVED)
	BUFFER ZONE
	WORK AREA
	PAINT STRIPING TRUCK OR OTHER OPERATING VEHICLE

TRAFFIC MANAGEMENT PLAN:

PROPOSED CONSTRUCTION ACTIVITIES INCLUDE THE FOLLOWING:

- CONSTRUCTION OF ADA COMPLIANT CURB RAMPS AT ALL PEDESTRIAN CROSSINGS.
- REPLACEMENT OF CURB AND SIDEWALK.
- MILLING AND RESURFACING OF THE PROJECT LIMITS.
- INSTALLATION OF NEW PAVEMENT MARKINGS.
- CONSTRUCTION, RECONSTRUCTION, AND RESET CASTINGS OF VARIOUS DRAINAGE INLETS.
- RESETTING OF UTILITY VALVES AND MANHOLES LOCATED WITHIN AREAS OF SIDEWALK RECONSTRUCTION.
- INSTALLATION OF TRAFFIC SIGNAL EQUIPMENT.

THE FOLLOWING IS REQUIRED PRIOR TO AND DURING CONSTRUCTION ACTIVITIES:

- TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, EXCEPT DURING MILLING AND PAVEMENT OPERATIONS OR AS APPROVED BY THE RESIDENT ENGINEER AND UNION COUNTY ENGINEER.
- ACCESS SHALL BE MAINTAINED TO ALL SURROUNDING BUSINESS AND RESIDENCES.
- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST NEW JERSEY DEPARTMENT OF TRANSPORTATION AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES REQUIREMENTS AND DETAILS.
- UNION COUNTY DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES SHALL NOTIFY THE CITY OF PLAINFIELD AS WELL AS POST CONSTRUCTION RELATED INFORMATION TO THE COUNTY'S WEBSITE AND SOCIAL MEDIA PAGES.
- THE CONTRACTOR SHALL DISTRIBUTE FLYERS TO RESIDENCES AND BUSINESSES LOCATED WITHIN THE PROJECT LIMITS AND INSTALL CONSTRUCTION SIGNS TWO WEEKS IN ADVANCE OF THE START OF CONSTRUCTION ACTIVITIES.

GENERAL NOTES:

- ADVANCE WARNING SIGNS DISTANCES AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE DEPARTMENT, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
- THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATIONS MAY BE MODIFIED AS APPROVED BY RE TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSINGS AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.
- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES ARE TO BE IN PLACE.
- RAMPS AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN ARE TO BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS, AND /OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN ARE TO BE COVERED, REMOVED, OR RELOCATED AS DIRECTED BY THE RE.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS ARE TO BE BAGGED OR COVERED.
- MAINTENANCE AND PROTECTION OF TRAFFIC TO BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) TO BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH TO BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
- CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) TO BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.
- CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) TO BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST.
- MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER, THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT IS TO MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA.
- THE CONTRACTOR TO SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN TO BE SUBMITTED TO THE RE AS SPECIFIED IN SPECIFICATION SECTION 108.07.02.
- BACKFILL ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY AND PLACE ON AT LEAST 6H:1V SLOPE BEFORE THE END OF EACH WORK DAY. OTHER EXCAVATED AREA WITHIN THE CLEAR ZONE ARE TO BE BACKFILLED.
- WHERE REQUIRED, THE CONTRACTOR IS TO MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RE.
- BITUMINOUS CONCRETE PLACED DURING THE VARIOUS CONSTRUCTION STAGES TO BE TRANSITIONED ON A MINIMUM 20H:1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.
- THE PLACEMENT AND /OR RELOCATION OF CONSTRUCTION BARRIER CURB TO BE DONE DURING ALLOWABLE LANE CLOSURE HOURS.
- CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE, AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE RE.
- THE SPEED LIMIT, R2-1 (BLACK ON WHITE) WITH ADDED WORK ZONE PLATE (BLACK ON ORANGE) SIGNS TO BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE BUREAU OF TRAFFIC ENGINEERING, REGIONAL TRAFFIC ENGINEER - WORK ZONE.
- THE REDUCED SPEED AHEAD SIGN, W3-5(S) (BLACK ON ORANGE) TO BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
- TRAFFIC FINES DOUBLED IN WORK AREA R(NJ)5-17(S) .4 FEET BY 2.5 FEET SIGN TO BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN TO ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN IS TO BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.
- DO NOT CONSTRUCT THE FINAL HMA SURFACE PAVEMENT UNTIL THE FINAL STAGE OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE RE OR INDICATED ON THE PLANS. SET MANHOLES AND INLETS TO FINISHED GRADE AND CONSTRUCT TEMPORARY PAVEMENT RAMPS AROUND THEM WITH A MINIMUM 20H:1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.
- PLACE TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. AS SHOWN ON PLANS. NO SIGNS ARE TO BE PLACED WITHOUT ACTUAL LANE CLOSURES AND REMOVE IMMEDIATELY UPON REMOVAL OF THE CLOSURES.
- CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE.
- TRAFFIC IMPACT NOTICES AND CHANGES
 - TERMS:
WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING IS AS FOLLOWS:
 - IMPACTS TO NORMAL TRAFFIC FLOW - WORK THAT REQUIRES A PORTION OF THE PAVED ROADWAY BEING BLOCKED OR CLOSED WITH SAFETY DEVICES OR VEHICLES INCLUDING, BUT NOT LIMITED TO, FULL OR PARTIAL LANE CLOSURES, FULL OR PARTIAL RAMP CLOSURES, SHOULDER CLOSURES, MOVING OPERATIONS SUCH AS TRAFFIC STRIPING OR SWEEPING, LANE SHIFTS, OR ALTERNATING TRAFFIC. THIS APPLIES EVEN WHEN DETOURS ARE PROVIDED.
 - TEMPORARY LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS.
 - PERMANENT LANE CLOSURES - WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.
 - ADVANCE NOTICES
FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR IS TO NOTIFY THE RE IN WRITING, ON THE ADVANCE FORM TO-103 PROVIDED BY THE DEPARTMENT, OF THE PROPOSED DATE. THE NOTICE IS TO BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, BEFORE THE PROPOSED DATE. START OF WORK THAT IMPACTS NORMAL TRAFFIC FLOW WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR IS TO CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE SEVEN (AND/OR FOURTEEN) CALENDAR DAYS BEFORE STARTING THE ESTABLISHMENT OF THE TRAFFIC CONTROL MEASURES FOR THE TRAFFIC IMPACT. THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CANNOT BE COMPLETED ON THE PROPOSED DATE.

FOR A "PERMANENT LANE CLOSURE", THE CONTRACTOR IS TO NOTIFY THE RE IN WRITING, ON ADVANCE FORM TO-103, OF THE PROPOSED DATE A NEW TRAFFIC PATTERN WILL BE ESTABLISHED. THE NOTICE IS TO BE SUBMITTED AT LEAST TWENTY-EIGHT CALENDAR DAYS, BUT NOT MORE THAN SIXTY CALENDAR DAYS, IN ADVANCE OF THE PROPOSED DATE. START OF A NEW TRAFFIC PATTERN WILL NOT BE PERMITTED PRIOR TO THE DATE STATED IN THE NOTICE. THE CONTRACTOR IS TO CONFIRM, IN WRITING TO THE RE, THE PROPOSED DATE OF THE NEW TRAFFIC PATTERN SEVEN (AND/OR FOURTEEN) DAYS BEFORE STARTING TRAFFIC CONTROL MEASURES FOR THE ESTABLISHMENT OF THE NEW PATTERN. THE CONTRACTOR IS TO IMMEDIATELY NOTIFY THE RE IF THE PROPOSED ESTABLISHMENT CANNOT BE COMPLETED ON THE PROPOSED DATE.

STARTING THE ESTABLISHMENT OF A NEW PERMANENT TRAFFIC PATTERN IS TO BEGIN NO EARLIER THAN 11:00 PM FRIDAY AND BE COMPLETED AND READY FOR OPERATIONS BY 6:00 PM THE FOLLOWING SUNDAY. THE ESTABLISHMENT IS TO BE COMPLETED IN ACCORDANCE WITH THE LANE CLOSURE HOURS SPECIFIED IN THE CONTRACT.

ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING ARE TO BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 101.04 OF THE SPECIAL PROVISIONS.
 - PROGRESS NOTICES
ALL "IMPACTS TO NORMAL TRAFFIC FLOW" SCHEDULED FOR THE SEVEN DAY PERIOD STARTING ON THE FOLLOWING MONDAY ARE TO BE SUBMITTED TO THE RE BY 9:00 AM OF EACH FRIDAY ON WEEKLY FORM TO-100 PROVIDED BY THE DEPARTMENT.

EACH DAY OF "TEMPORARY LANE CLOSURES" ARE TO BE SUBMITTED TO THE RE BY 9:00 AM THE DAY IN ADVANCE OF THE START OF THOSE OPERATIONS ON DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT.

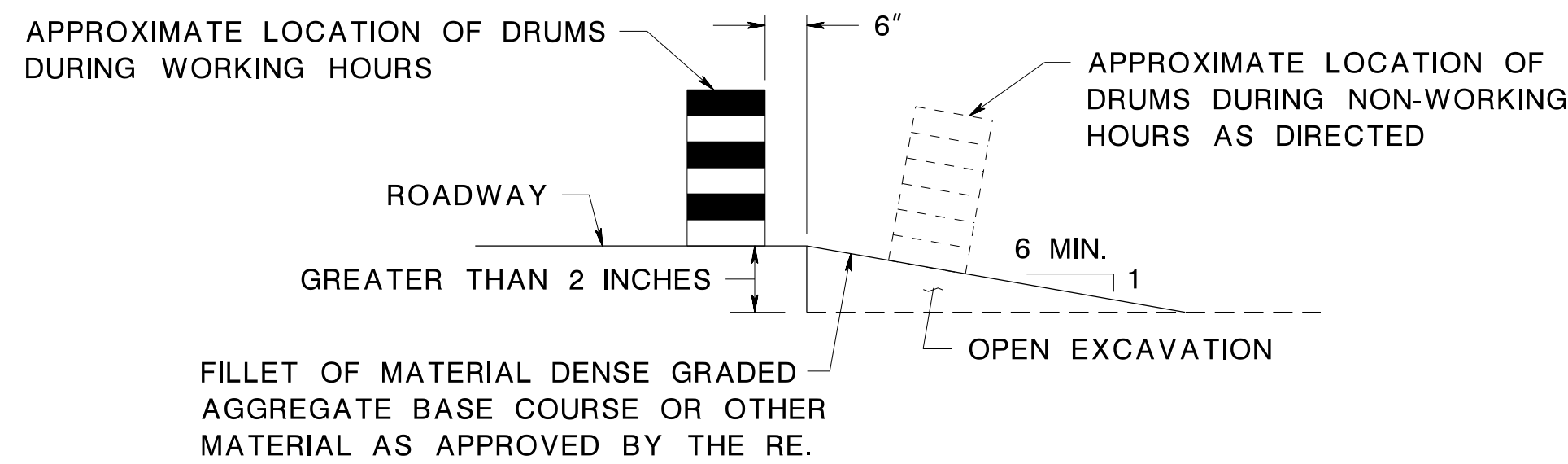
"TEMPORARY LANE CLOSURES" FOR WEEKENDS ARE TO BE SUBMITTED TO THE RE BY 9:00 AM ON THE IMMEDIATELY PRECEDING FRIDAY ON THE DAILY FORM TO-101 PROVIDED BY THE DEPARTMENT.
 - CHANGES TO THE SCHEDULED CLOSURES
REQUEST FOR A CHANGE TO THE TRAFFIC CONTROL REQUIREMENTS IN THE CONTRACT DOCUMENTS ARE TO BE SUBMITTED IN WRITING TO THE RE AS FOLLOWS:

CHANGES TO THE SCHEDULED HOURS FOR "TEMPORARY LANE CLOSURES" ARE TO BE SUBMITTED TO THE RE AT LEAST EIGHT CALENDAR DAYS IN ADVANCE OF WHEN THE CHANGE IS PROPOSED TO START.

OTHER PROPOSED CHANGES TO "TEMPORARY LANE CLOSURES" AND ALL CHANGES TO "PERMANENT LANE CLOSURES" ARE TO BE SUBMITTED TO THE RE AS SPECIFIED IN THE SPECIFICATIONS.
- WHERE FINAL HMA PAVING IS PERFORMED AND THE LANE IS TO BE RE-OPENED TO TRAFFIC AND THE ITEM TRAFFIC STRIPES IS UNABLE TO BE APPLIED, APPLY THE ITEM TRAFFIC STRIPES, LATEX. ENSURE THAT THE ITEM TRAFFIC STRIPES IS APPLIED WITHIN 14 DAYS.

TCD-1	DTL-9 DTL-18
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COUNTY OF UNION DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES	
CONSTRUCTION DETAIL	
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE	
MICHAEL BAKER INTERNATIONAL, INC. CERTIFICATION OF AUTHORIZATION NO. 24GA27954700	
BRAD J. MILLER NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300	



ESCAPE RAMP DETAIL

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED SIGHT DISTANCE TO BEGINNING OF CHANNELIZING TAPERS		
	DESIRABLE		MINIMUM
	RURAL FEET	URBAN FEET	RURAL AND URBAN FEET
25	375	525	150
30	450	625	200
35	525	725	250

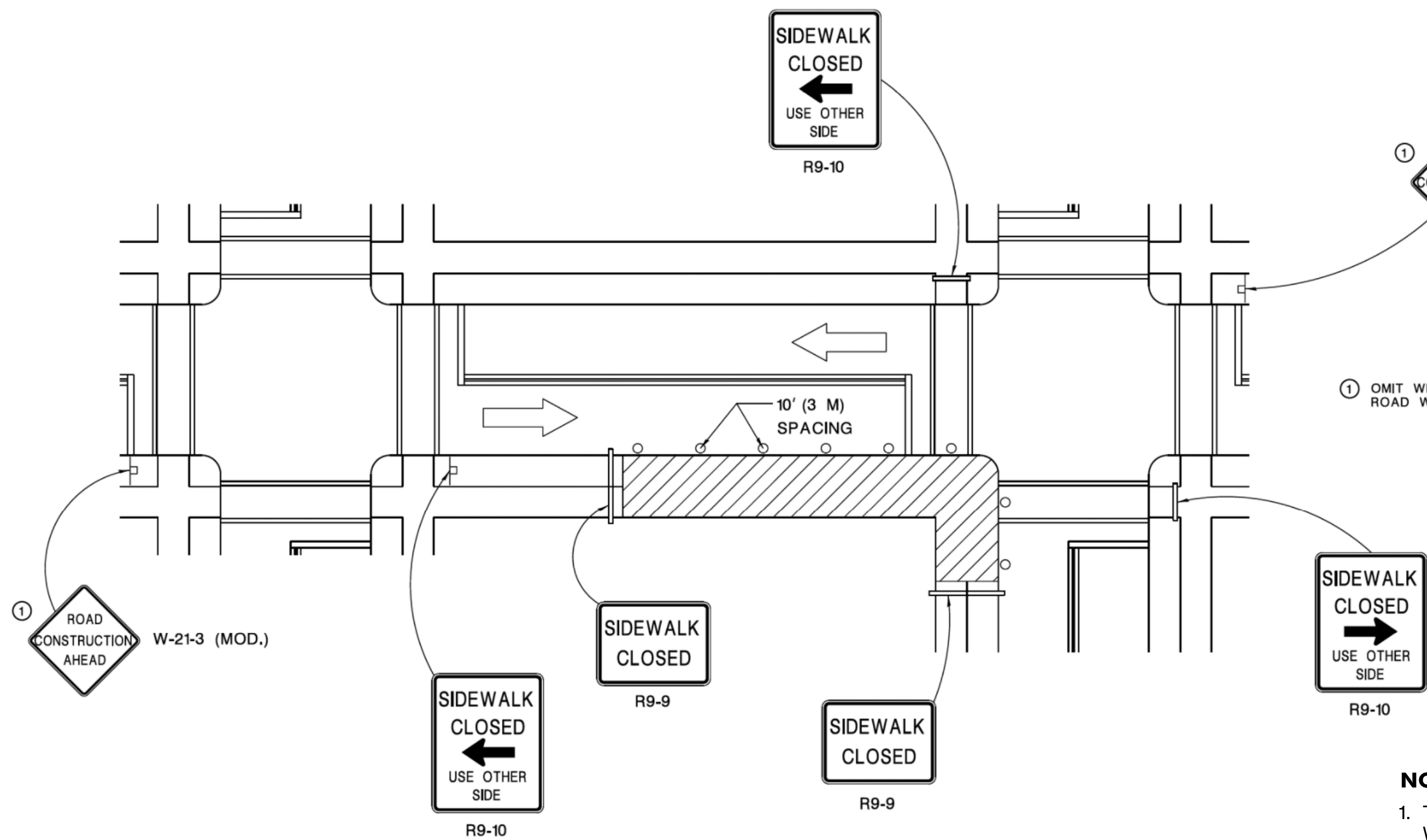
NOTES:

1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND / OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
2. RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES ARE DOUBLE THE VALUES SHOWN ABOVE.
3. RURAL AND URBAN ROAD DESIGNATIONS ARE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
4. PROVIDE DESIRABLE VALUES WHEREVER POSSIBLE. IF IT IS NOT FEASIBLE OR PRACTICAL TO PROVIDE DESIRABLE VALUES BECAUSE OF HORIZONTAL OR VERTICAL CURVATURE OR IF RELOCATION OF THE TAPER IS NOT POSSIBLE, THEN MINIMUM VALUES CAN BE APPLIED. WHEN MINIMUM VALUES ARE USED, PAY SPECIAL ATTENTION TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES WHEN PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
5. LOCATE TAPERS TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

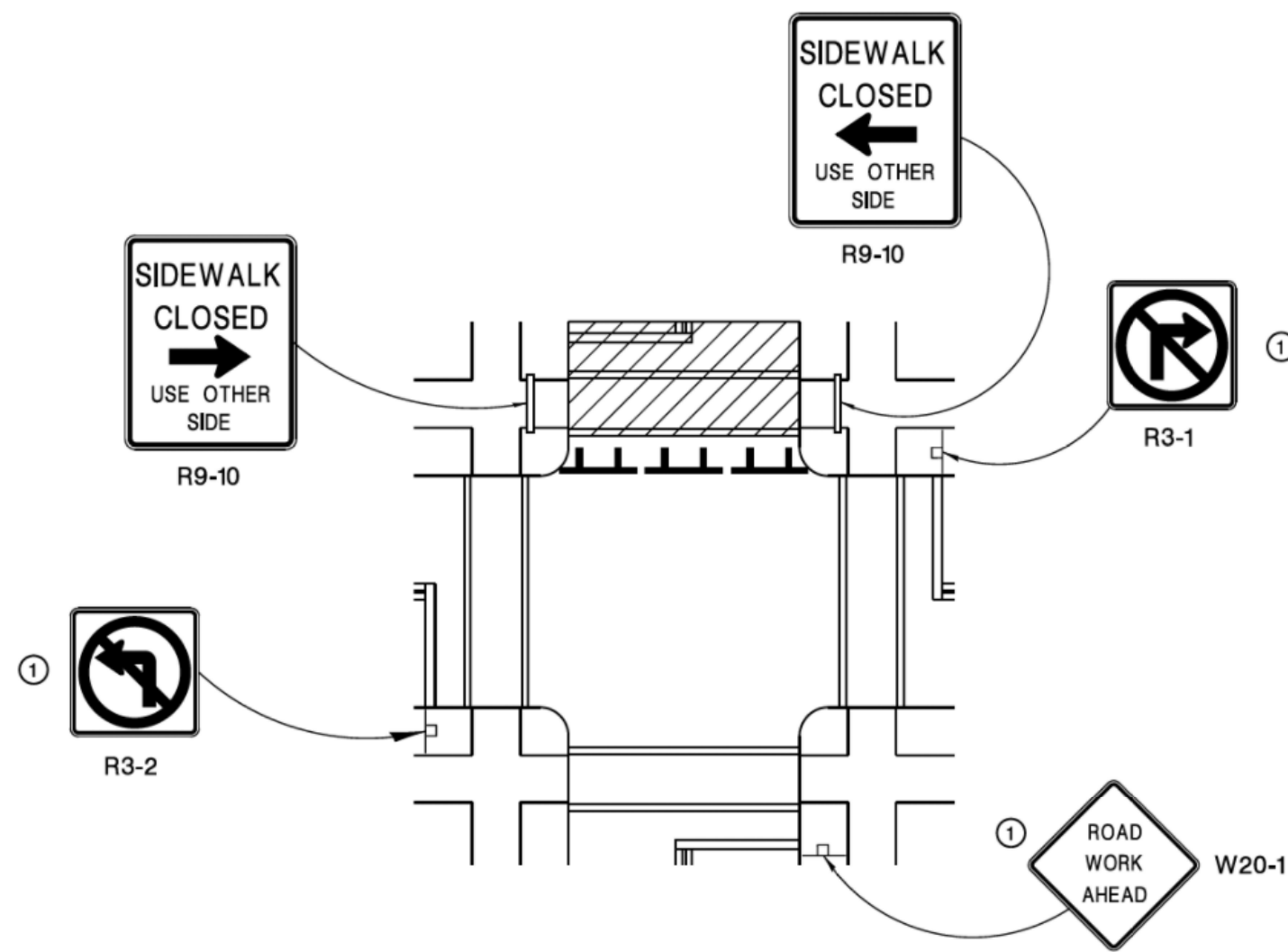
RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS	
REGULATORY APPROACH SPEED OF TRAFFIC MILES /HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L – FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
		10’	11’	12’		
25	10.5:1	105	115	125	25	50
30	15:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70

NOTE:

1. THE MAXIMUM DEVICE SPACING ALONG CURVES IS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.









CORNER CLOSURE
PEDESTRIAN DETOUR



CROSSWALK CLOSURE
PEDESTRIAN DETOUR

GENERAL LEGEND

- | | |
|---|--|
|  | WORK AREA |
|  | SIGN ON PORTABLE OR PERMANENT SUPPORT |
|  | BARRICADE OR DRUM |
|  | CONE, DRUM OR BARRICADE |
|  | TYPE III BARRICADE |
|  | DETECTABLE PEDESTRIAN CHANNELIZING BARRICADE |



TCD-2	DTL-18
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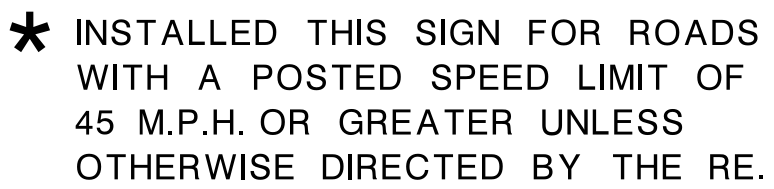
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION DETAIL

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

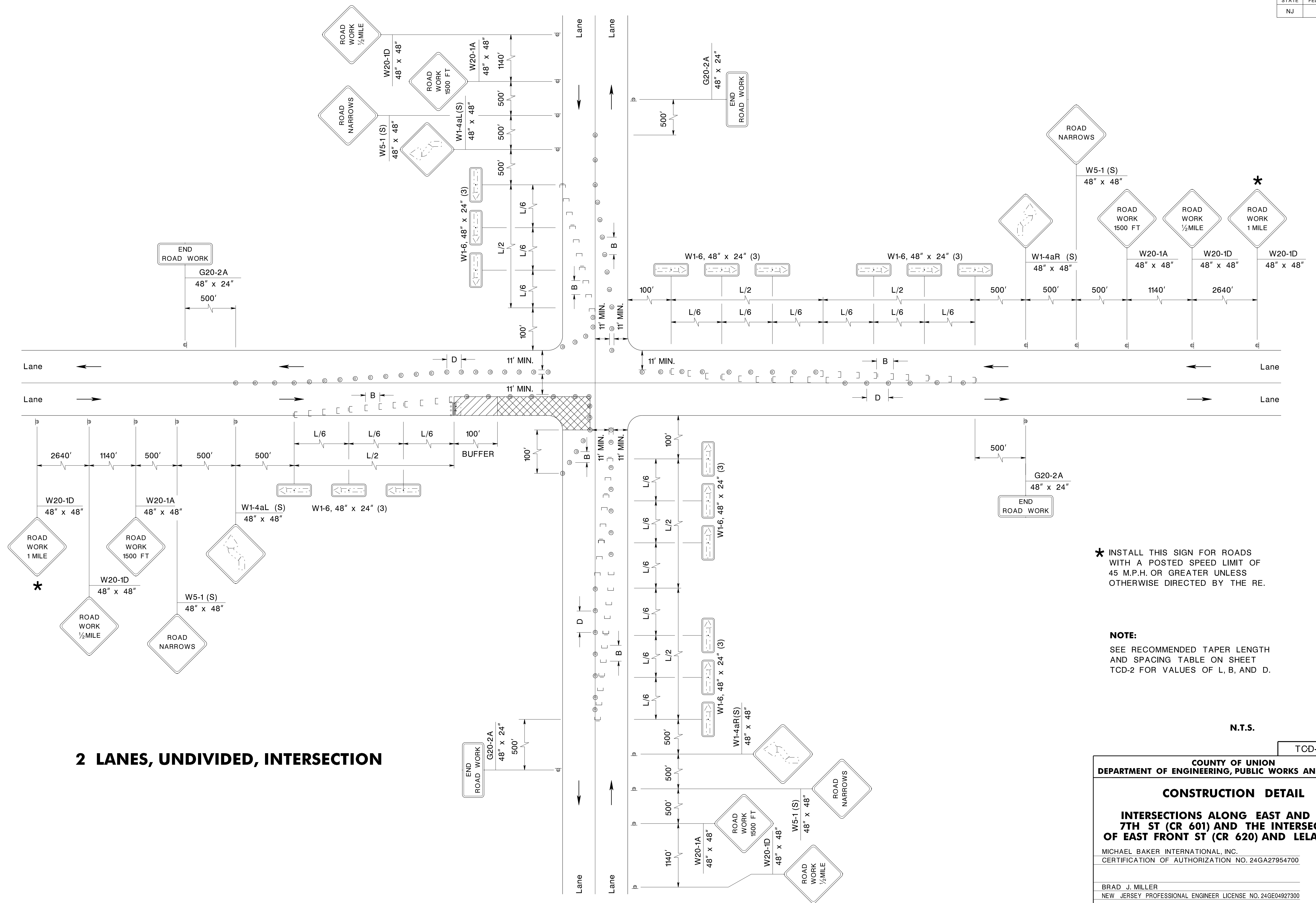
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



NOTE:
SEE RECOMMENDED TAPER LENGTH
AND SPACING TABLE ON SHEET
TCD-2 FOR VALUES OF L, B, AND D.

2 LANES, UNDIVIDED, LANE AND SHOULDER CLOSING WITH FLAGGING



2 LANES, UNDIVIDED, INTERSECTION

*** INSTALL THIS SIGN FOR ROADS
WITH A POSTED SPEED LIMIT OF
45 M.P.H. OR GREATER UNLESS
OTHERWISE DIRECTED BY THE RE.**

NOTE:
SEE RECOMMENDED TAPER LENGTH
AND SPACING TABLE ON SHEET
TCD-2 FOR VALUES OF L, B, AND D.

N.T.S.

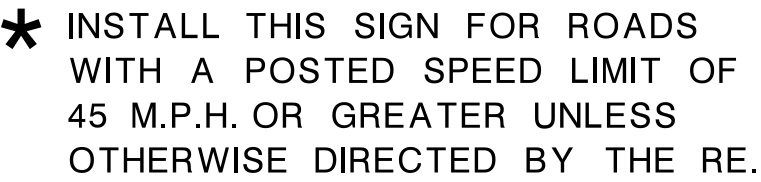
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION DETAIL

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700


BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

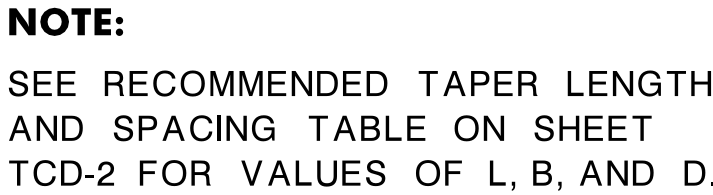


NOTE:
SEE RECOMMENDED TAPER LENGTH
AND SPACING TABLE ON SHEET
TCD-2 FOR VALUES OF L, B, AND D.

2 LANES, UNDIVIDED, INTERSECTION

N.T.S.

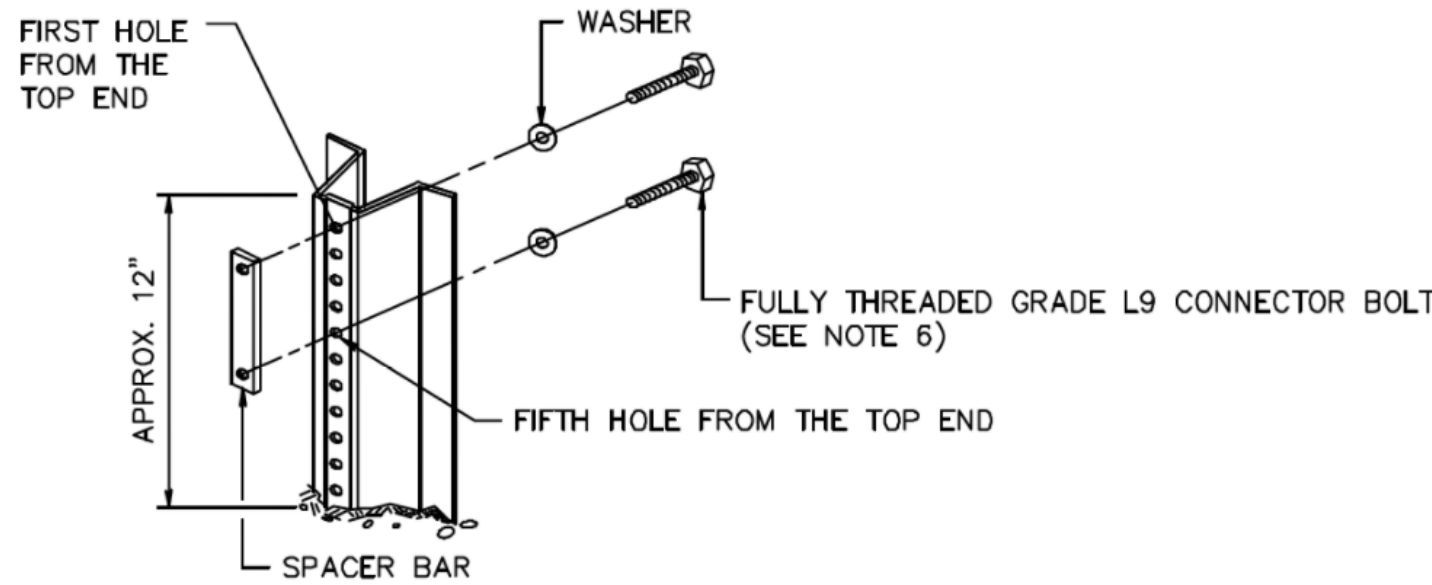




DTL-14
DTL-18

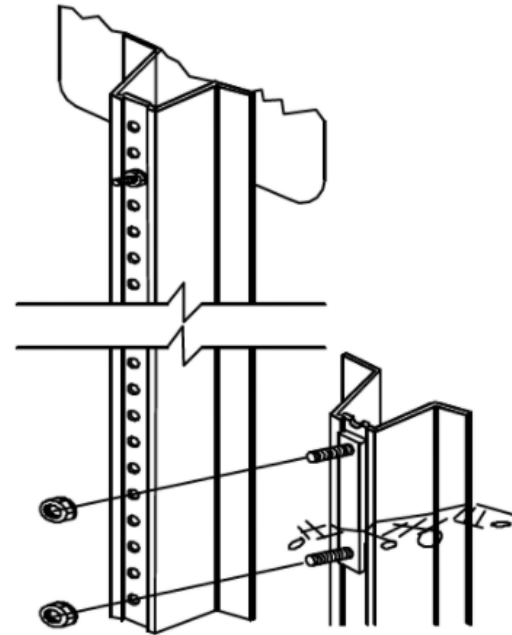
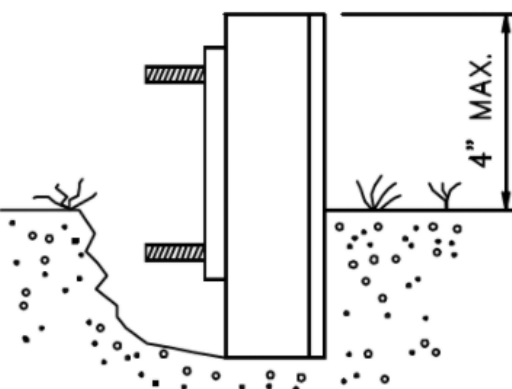
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:51
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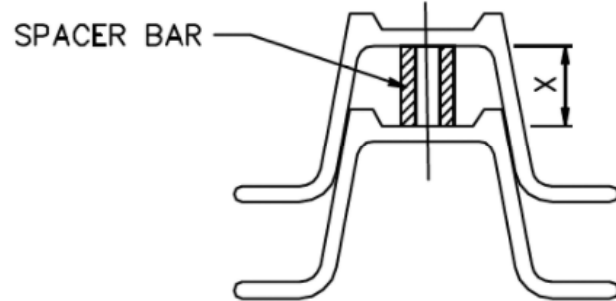
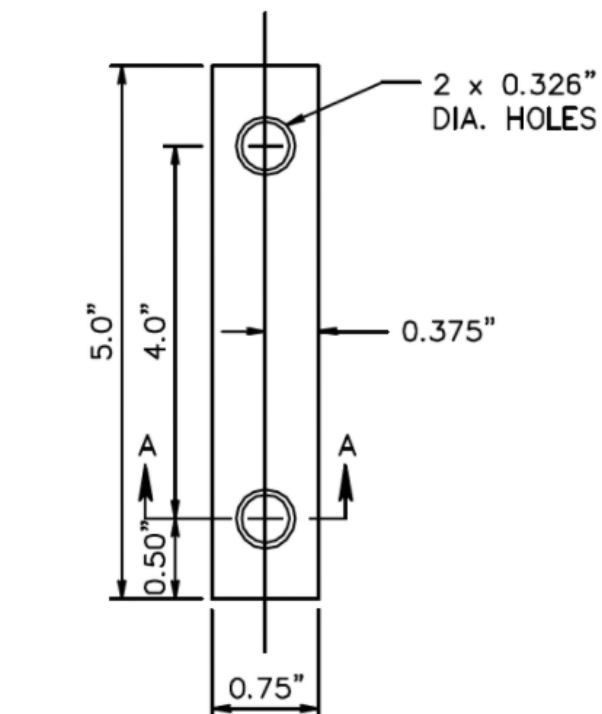


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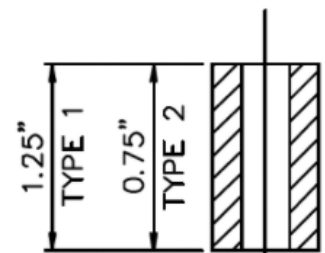
1. DRIVE ANCHOR POST ASSEMBLY TO WITHIN APPROXIMATELY 12 INCHES ABOVE GROUND LEVEL. PLACE BOLT AND WASHER IN FIRST AND FIFTH HOLES FROM THE TOP END, AND SECURE BOLTS ONTO SPACER.
2. DRIVE ANCHOR POST ASSEMBLY TO WITHIN A MAXIMUM OF 4 INCHES ABOVE GROUND LEVEL.
3. DIG OUT AROUND BACK OF ANCHOR POST ASSEMBLY TO ALLOW ROOM FOR TOP POST TO BE ATTACHED.
4. NEST TOP POST ASSEMBLY ONTO PROTRUDING ANCHOR POST ASSEMBLY BOLTS, THROUGH THE FIRST AND FIFTH HOLES FROM THE BOTTOM OF THE TOP POST.
5. PLACE AND TIGHTEN A SELF-LOCKING FLANGE NUT ON EACH BOLT. WHEN INSTALLATION IS COMPLETE, TOP OF GROUND POST SHALL NOT EXCEED 4 INCHES ABOVE GROUND LEVEL.
6. SIZE OF CONNECTOR BOLT FOR TYPE 1, 5/16" x 1 1/2" SIZE OF CONNECTOR BOLT FOR TYPE 2, 5/16" x 2"
7. THE CONNECTOR BOLTS SHALL BE FULLY THREADED. EACH CONNECTOR BOLT AND NUT SHALL BE CLEARLY STAMPED WITH MANUFACTURER'S IDENTIFYING MARK.



ANCHOR POST ASSEMBLY
SIGN SUPPORTS



WHEN X IS GREATER THAN 0.75", USE TYPE 1 SPACER BAR
WHEN X IS 0.75" OR LESS, USE TYPE 2 SPACER BAR

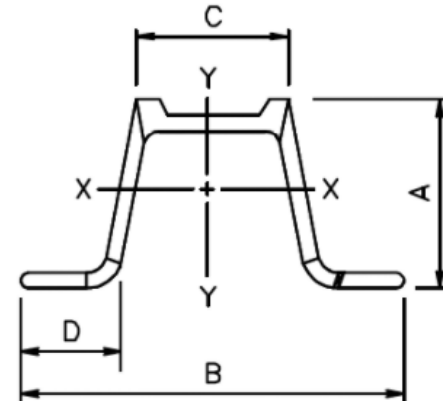


SECTION A-A

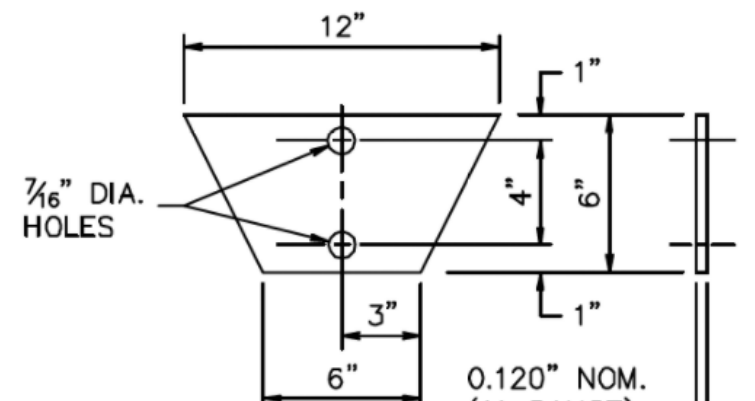
SPACER BAR

WEIGHT * LBS. / FT.	DIMENSIONS (IN)				AREA IN. 2	X-X AXIS **		Y-Y AXIS	
	"A"	"B"	"C"	"D"		I(IN. 4)	S(IN. 3)	I(IN. 4)	S(IN. 3)
2.50	1.516	3.062	1.278	0.669	0.760	0.228	0.313	0.539	0.352
4.00	1.968	3.500	1.336	0.834	1.187	0.611	0.707	1.161	0.664

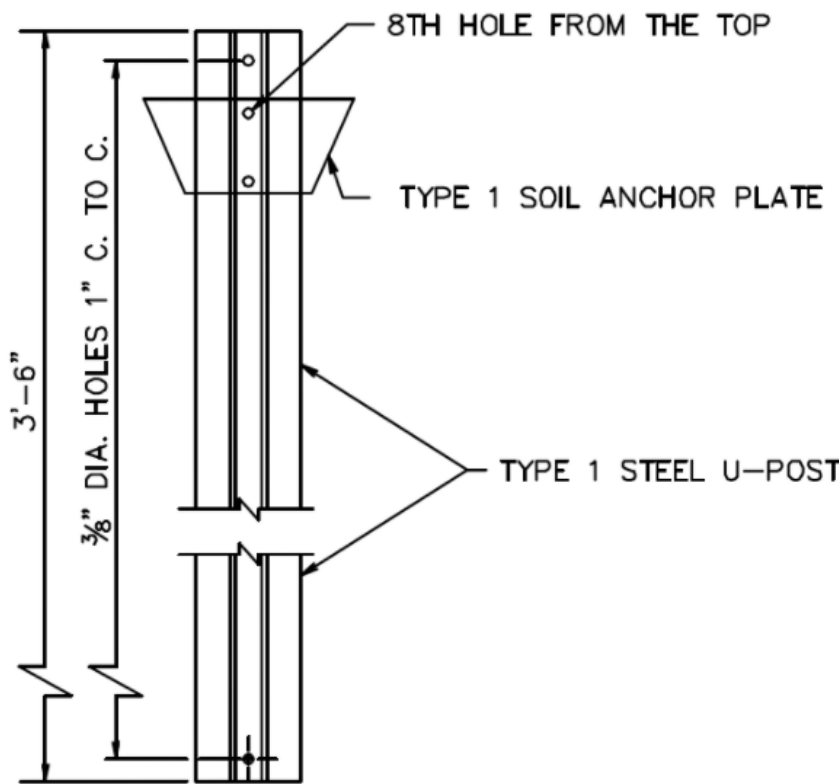
* ± 5%
** GOVERNING SECTION



TYPE 1 STEEL
U-POST



TYPE 1
SOIL ANCHOR PLATE



TYPE 1
ANCHOR POST
ASSEMBLY

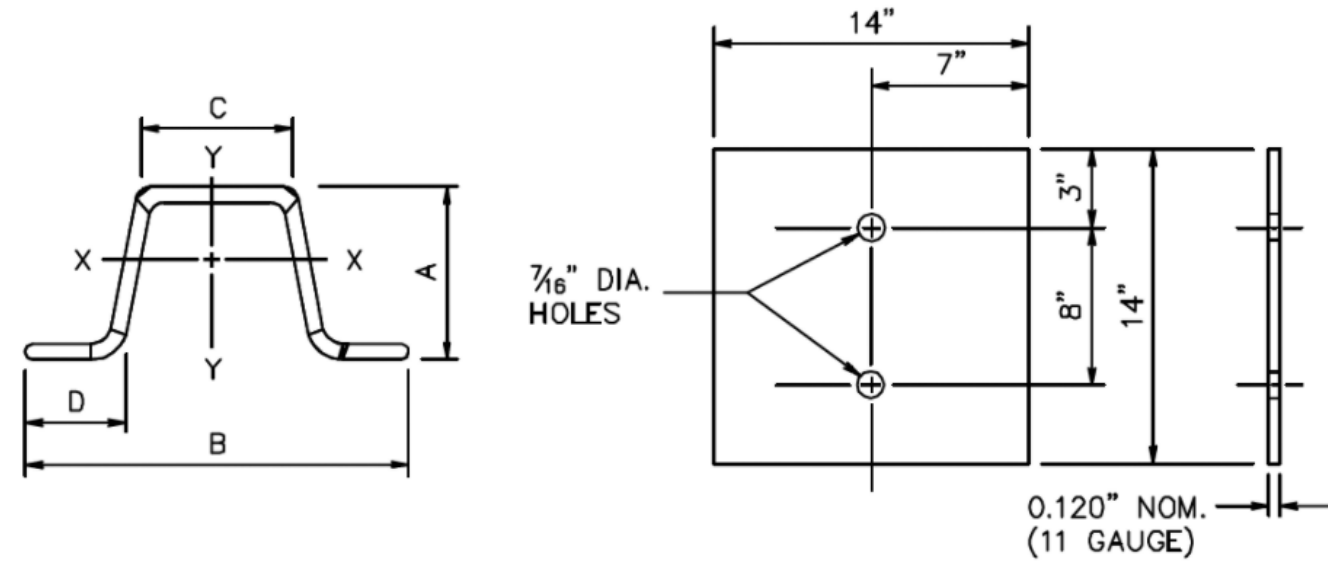
STEEL POSTS, POST CLIPS, SPACING,
ETC.
AND TWO PIECE STEEL U-POSTS.

NOTES:

1. ANCHOR POST AND TOP POST SHALL BE OF EQUAL WEIGHT/FEET.
2. SOIL ANCHOR PLATE SHALL BE ATTACHED TO ALL ANCHOR POSTS.
3. THE MATERIAL FOR THE SOIL ANCHOR PLATES SHALL BE CARBON SHEET STEEL.
4. THE STEEL "U" POST SHALL BE GRADE 60.

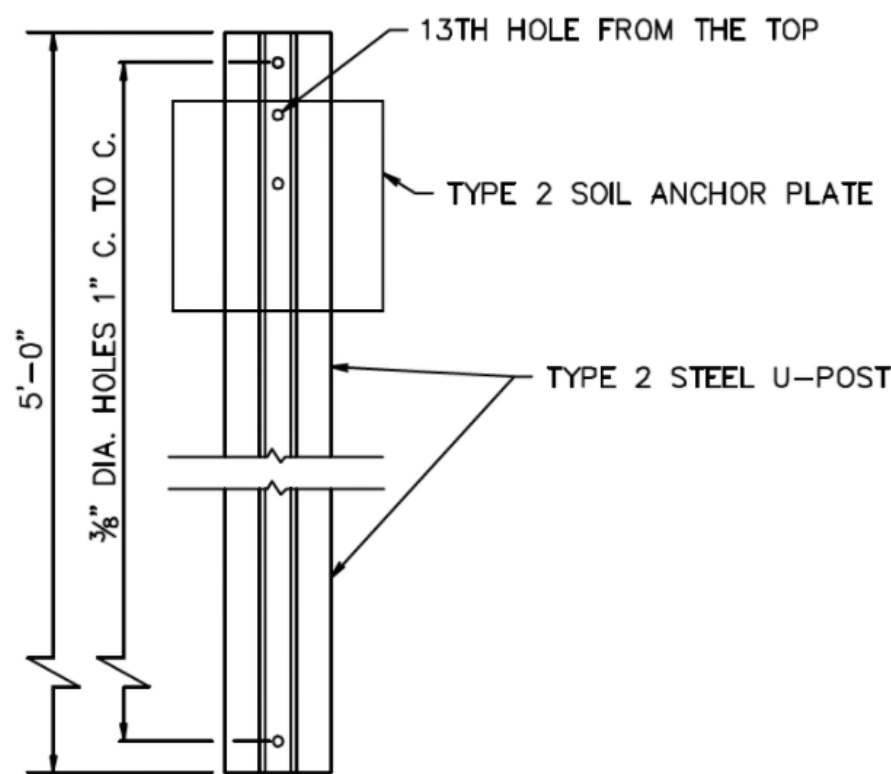
WEIGHT * LBS. / FT.	DIMENSIONS (IN)				AREA IN. 2	X-X AXIS **		Y-Y AXIS	
	"A"	"B"	"C"	"D"		I(IN. 4)	S(IN. 3)	I(IN. 4)	S(IN. 3)
2.50	1.549	3.125	1.250	0.625	0.748	0.233	0.289	0.551	0.353
4.00	1.845	3.500	1.625	0.718	1.190	0.500	0.560	1.190	0.690

* ± 5%
** GOVERNING SECTION

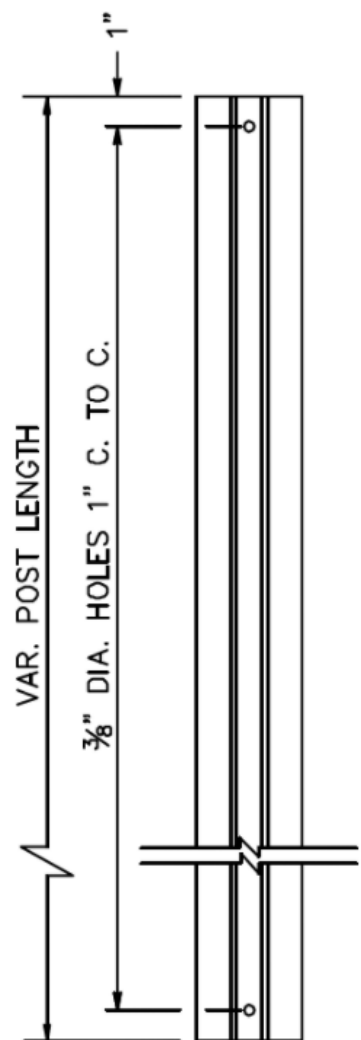


TYPE 2 STEEL
U-POST

TYPE 2
SOIL ANCHOR PLATE



TYPE 2
ANCHOR POST
ASSEMBLY



TOP POST
U-POST

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

CONSTRUCTION DETAIL

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

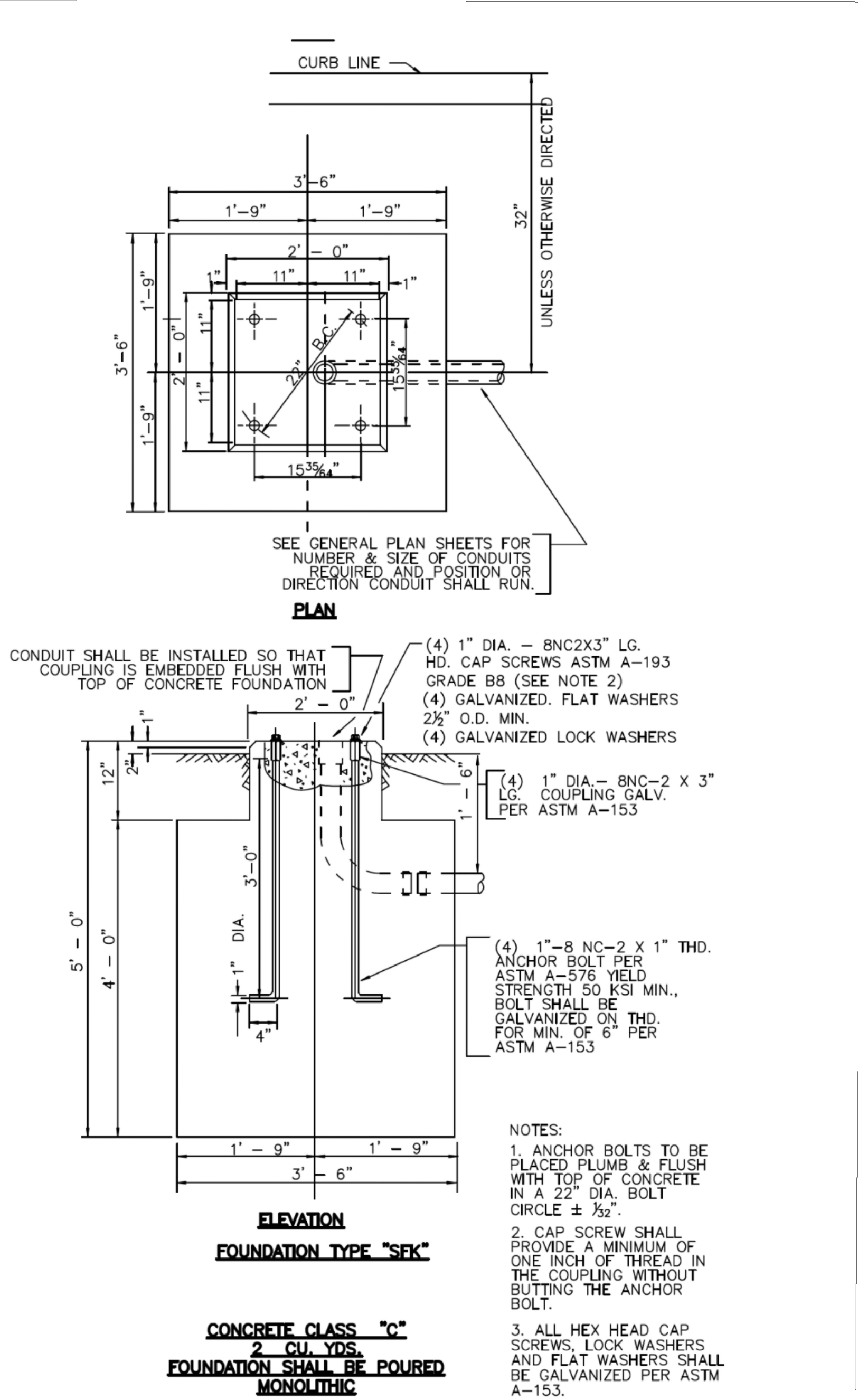
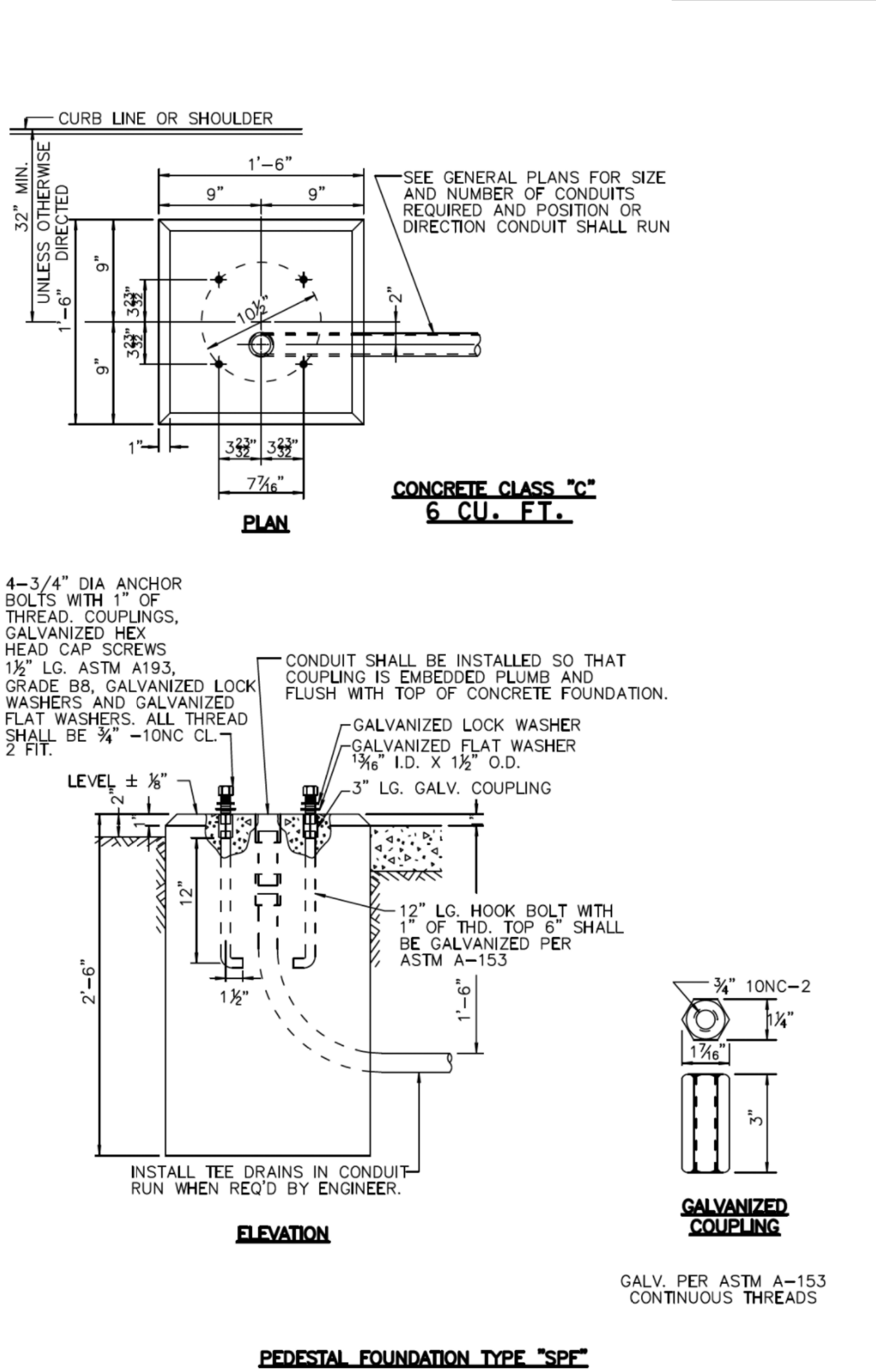
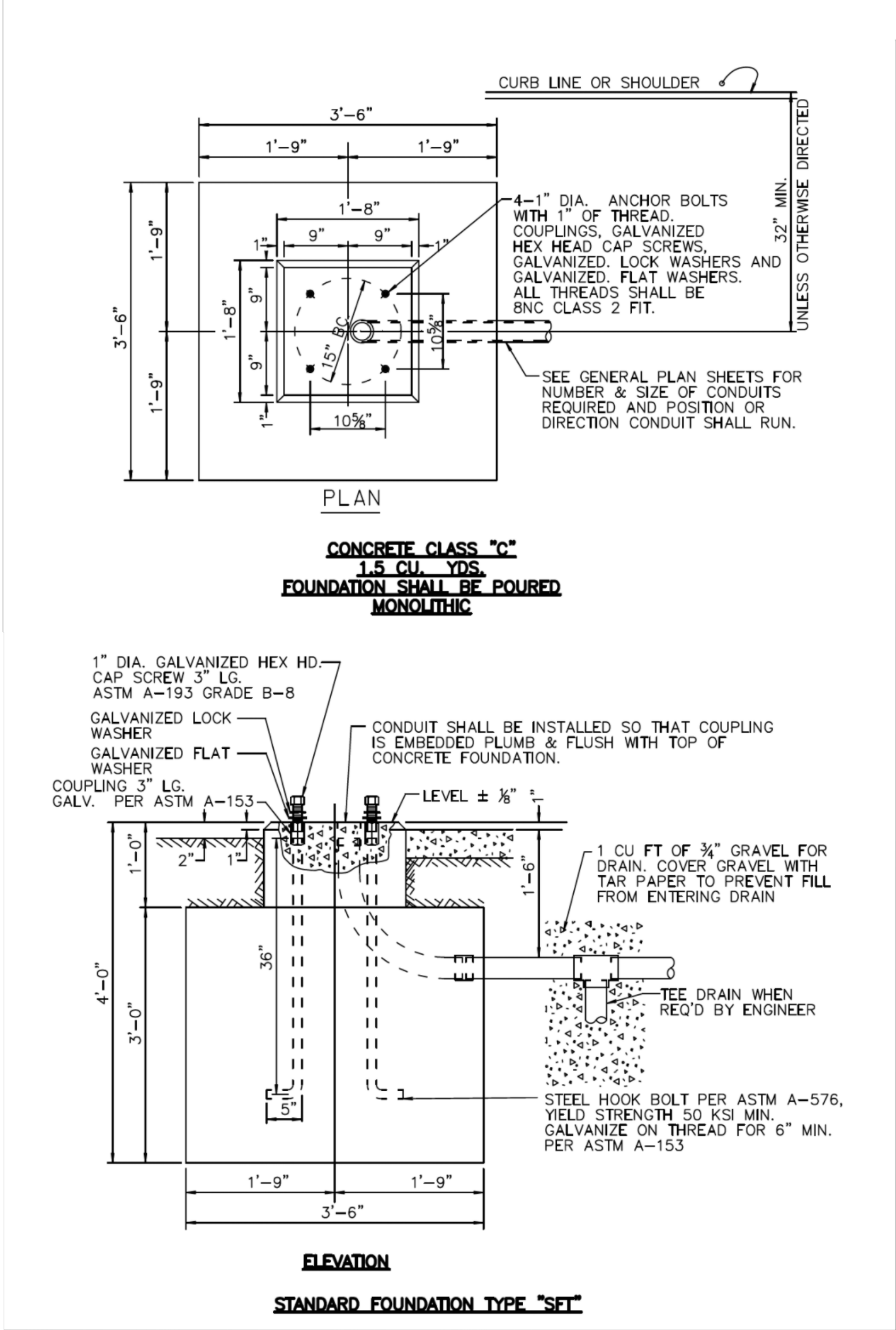
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

DTL-15
DTL-18



USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:52
MBIPW PATH LOCATION: pw://mb-us-pw.bentley.com/mb-us-pw-08/Documents/Hamilton, NJ/01 Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/01_Union-County/CADD/Plan/Contract-Set/20_Detail/DTL-17.dgn



- NOTES:
1. ALL CONDUIT SHALL BE INSTALLED SO THAT COUPLINGS ARE EMBEDDED PLUMB AND FLUSH WITH TOP OF CONCRETE FOUNDATION.
 2. J-BOLT MUST BE INSERTED 1 1/2" ± 1/8" INTO 3" COUPLING.

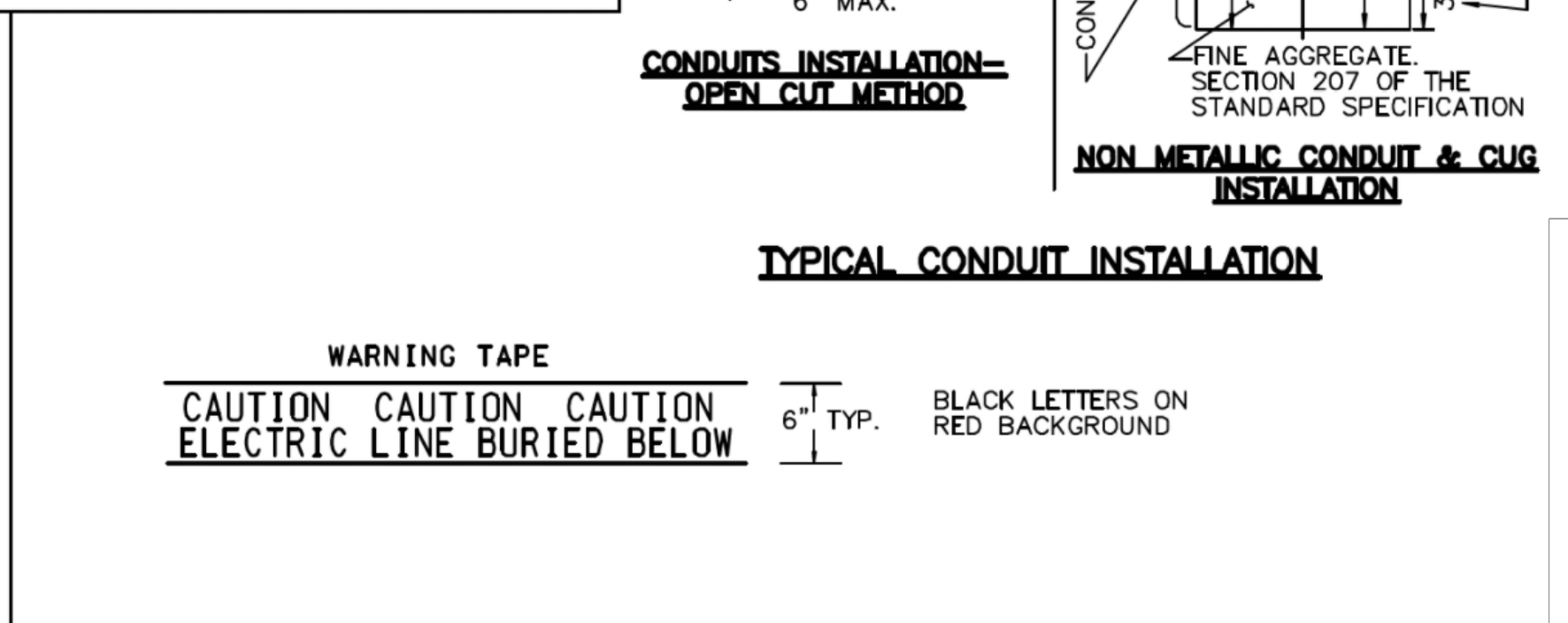
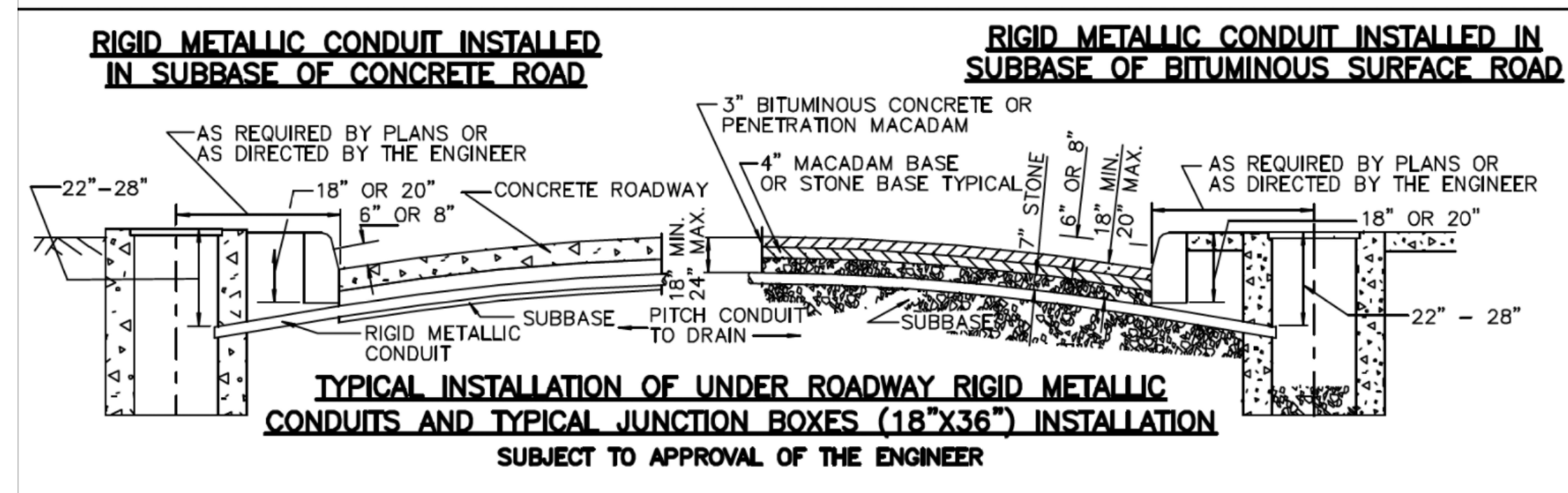
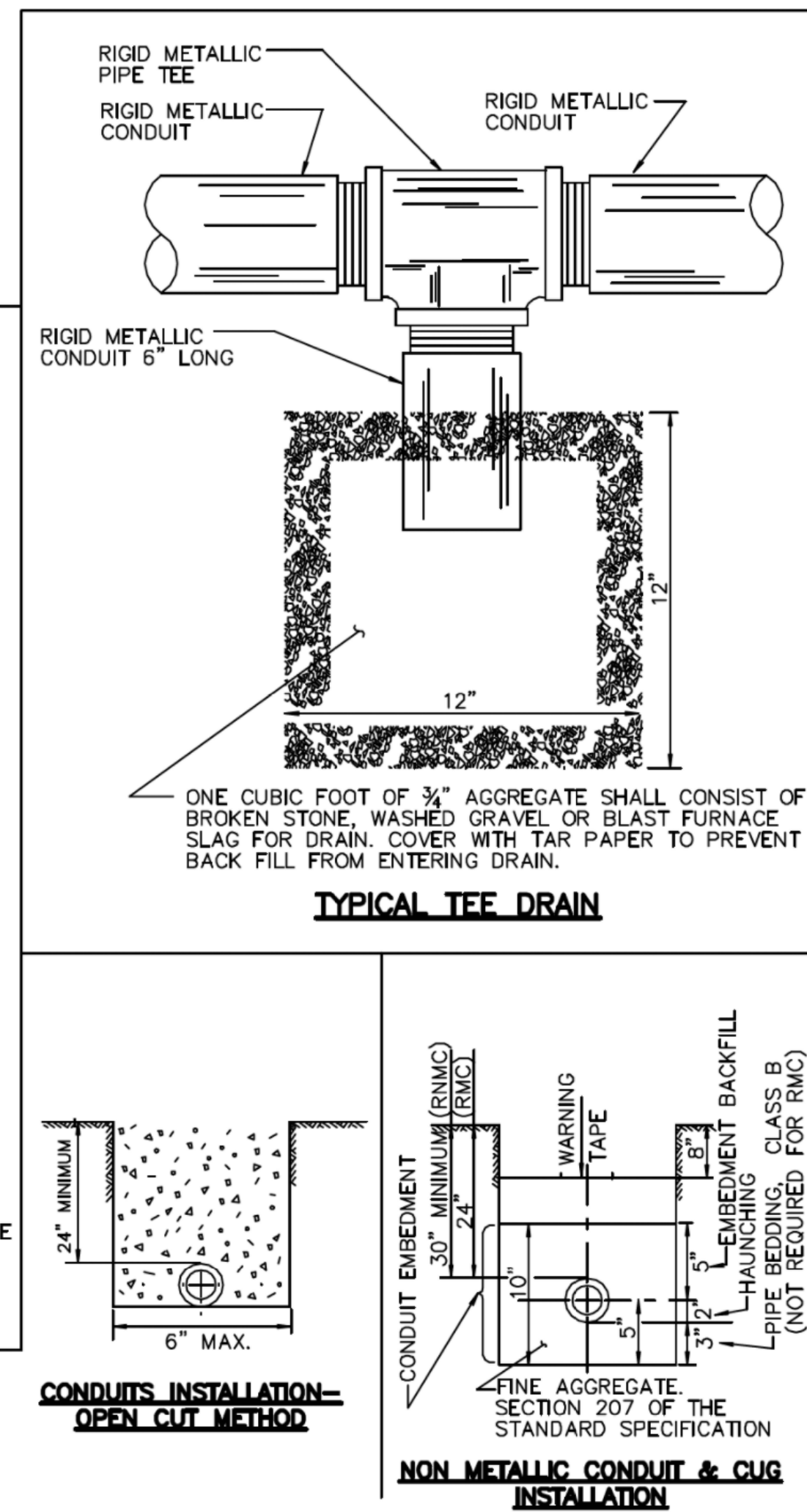
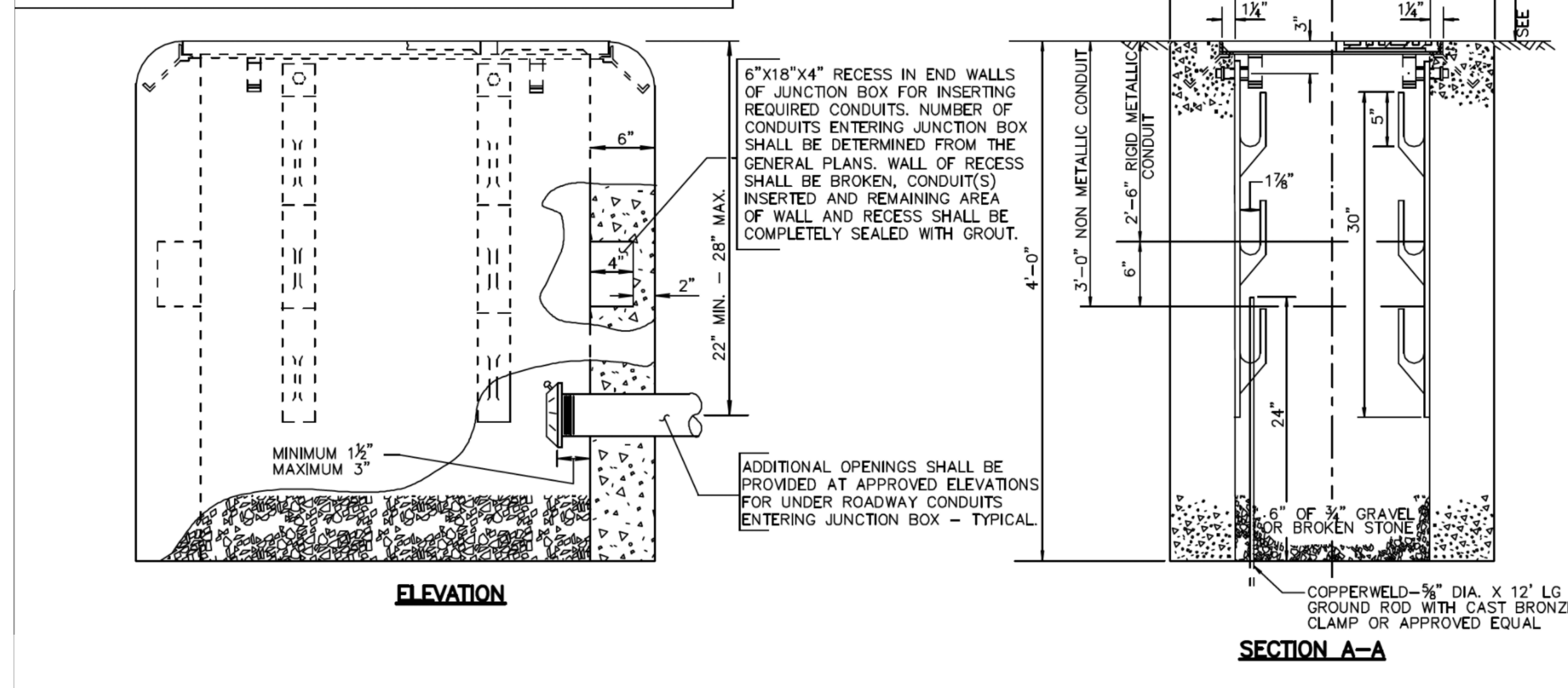
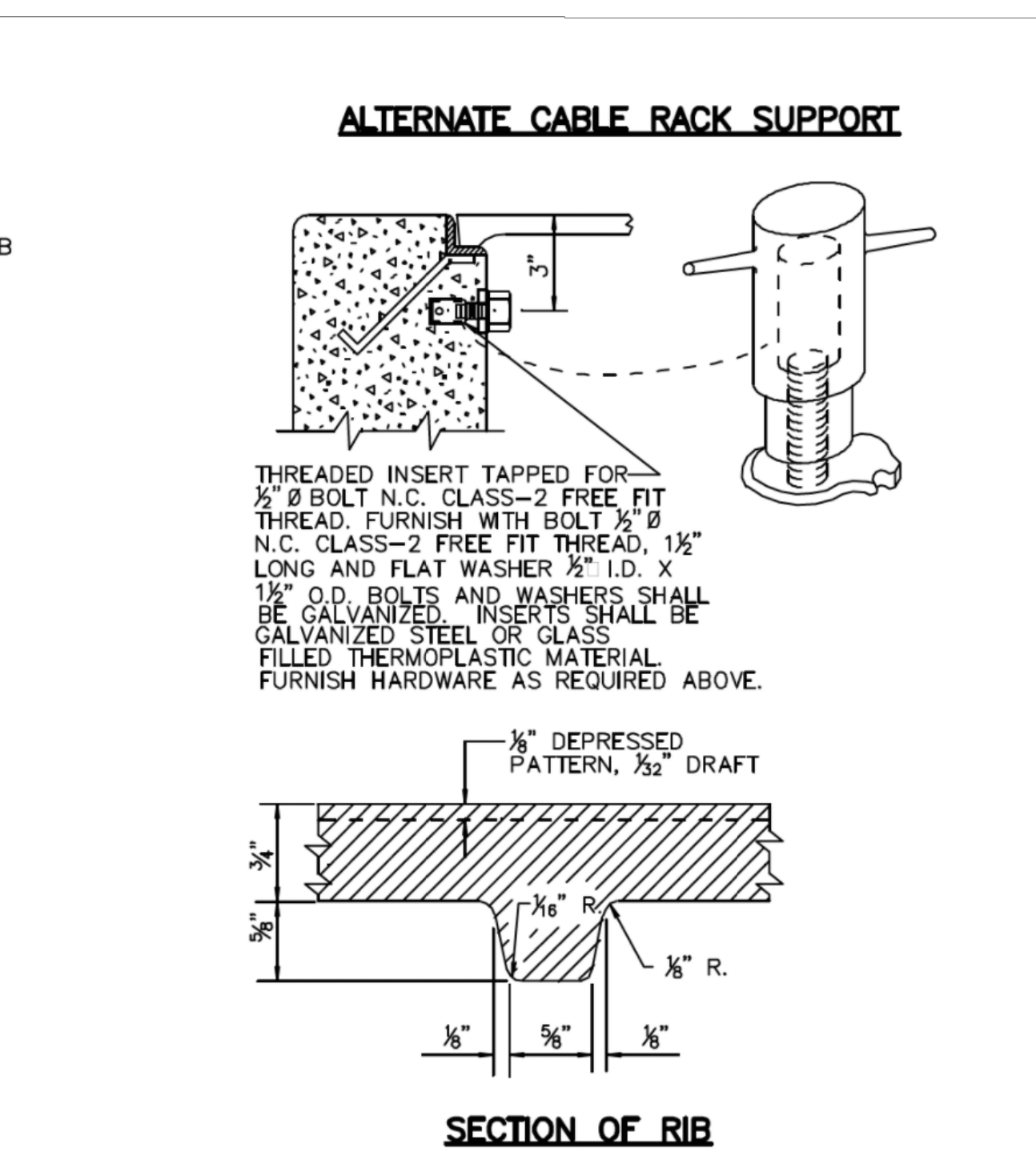
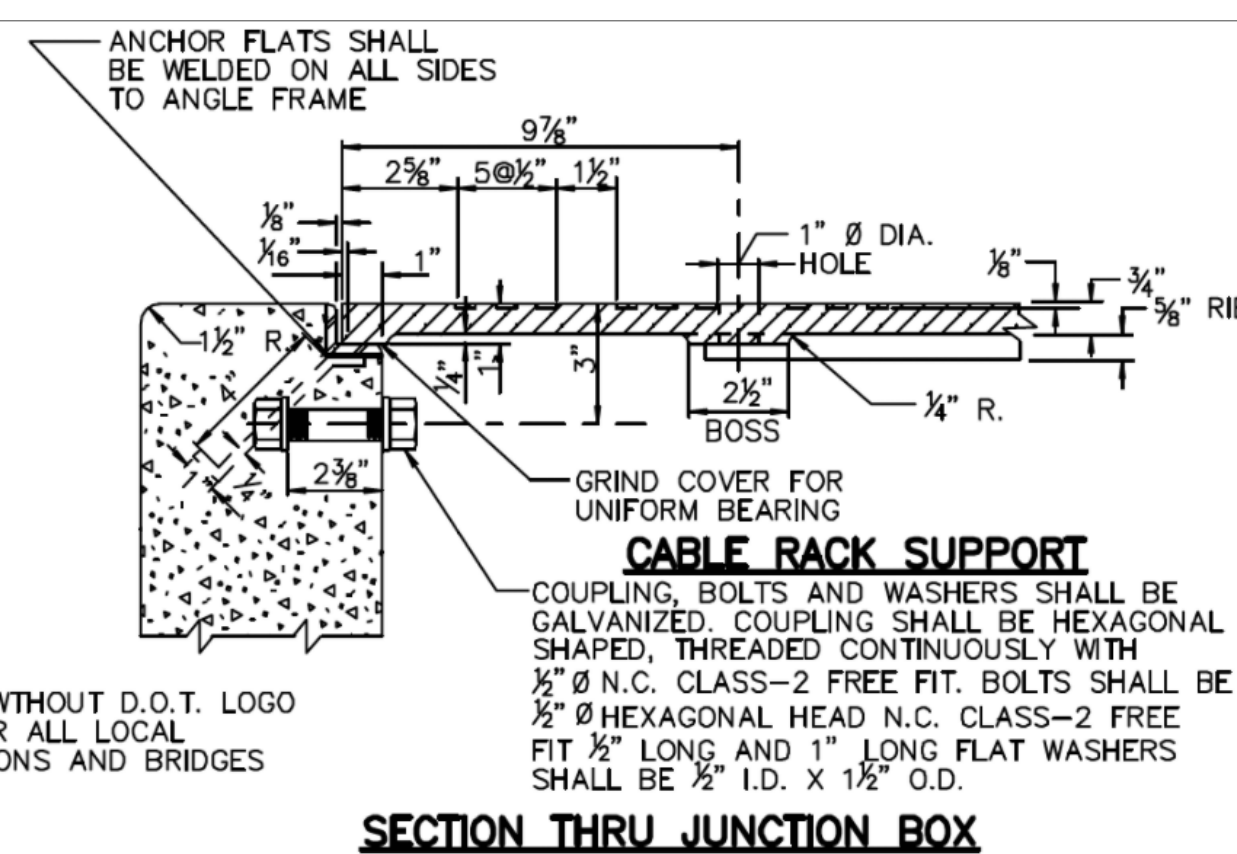
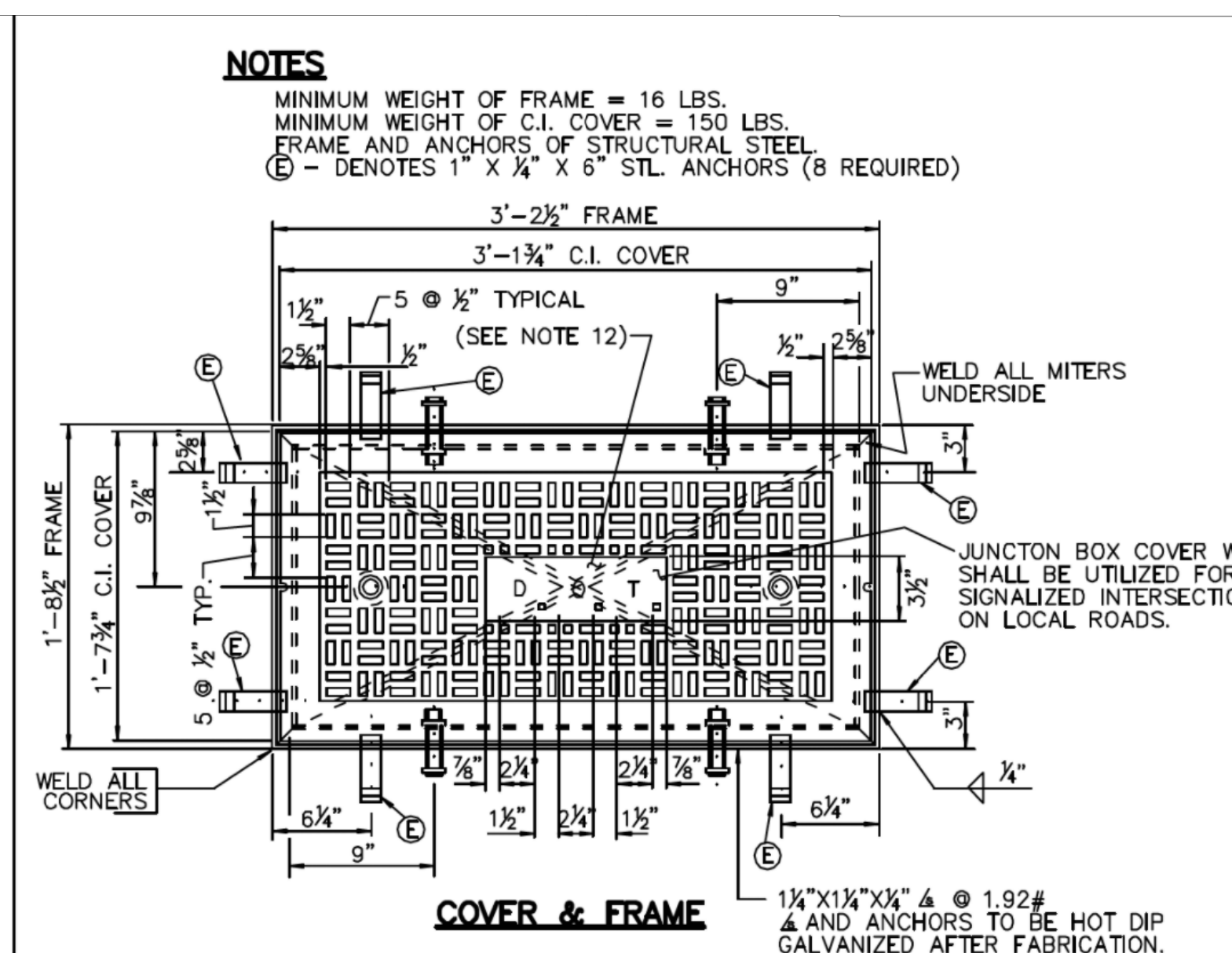
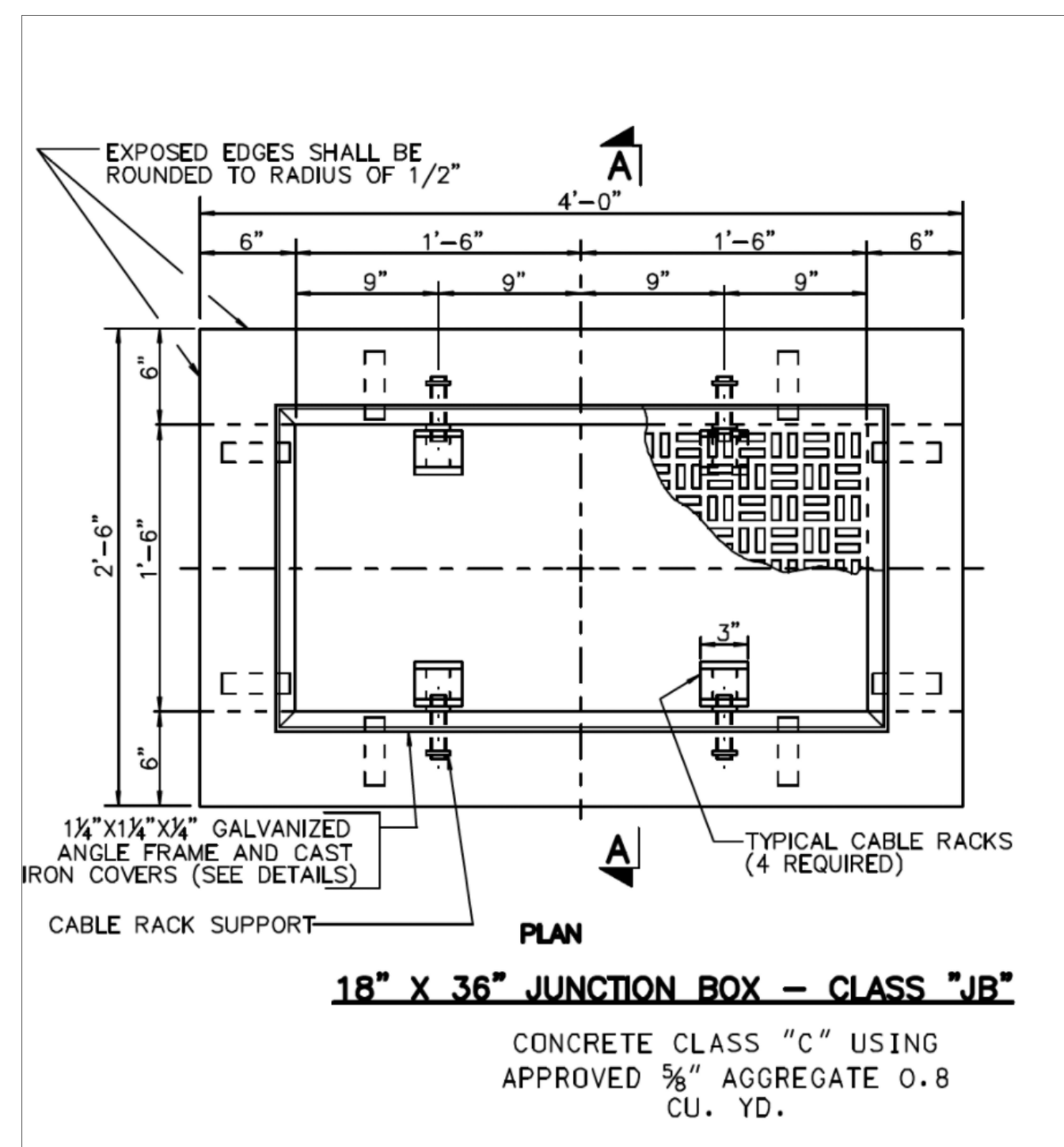
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
CONSTRUCTION DETAIL

**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

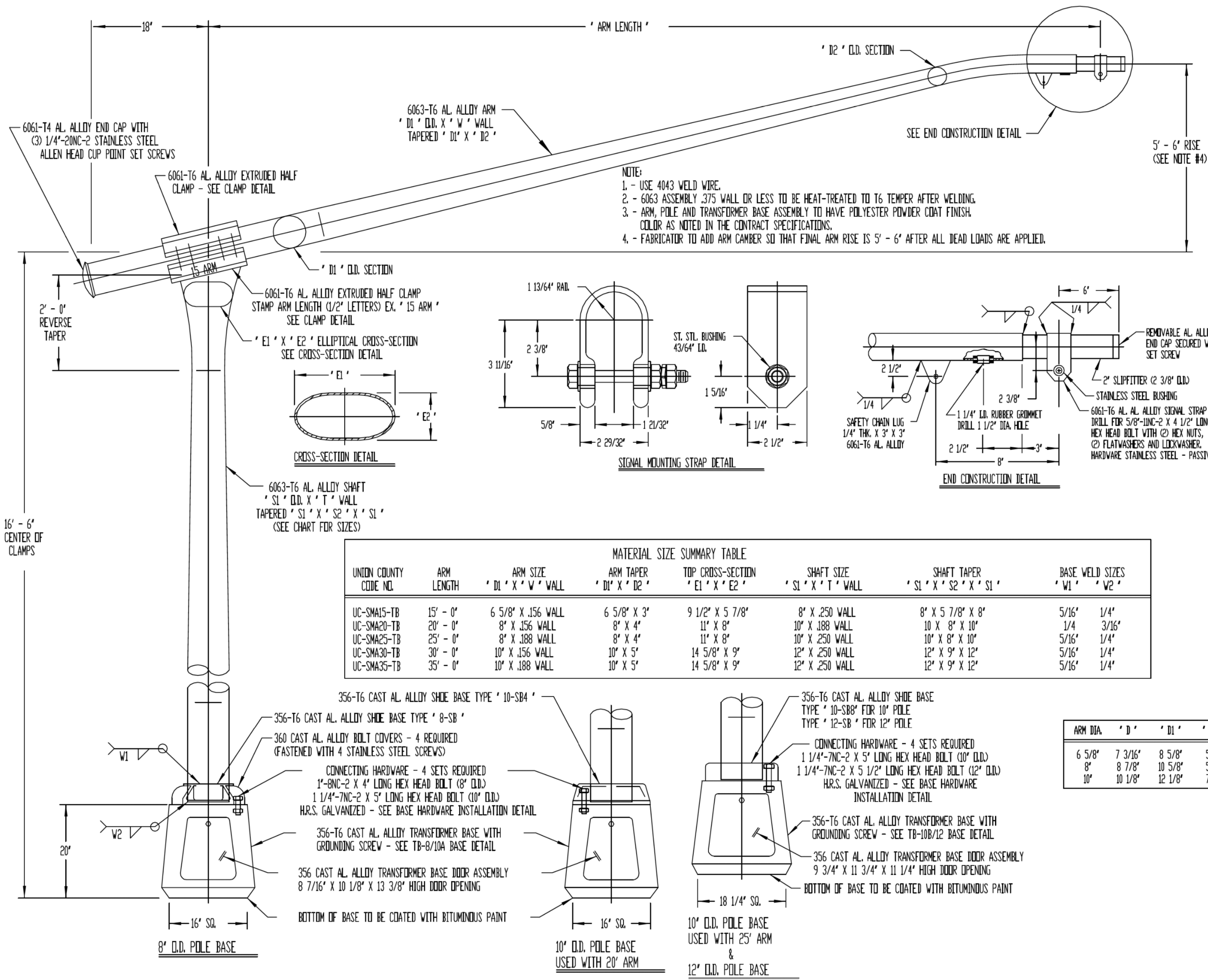
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

DTL-17
DTL-18

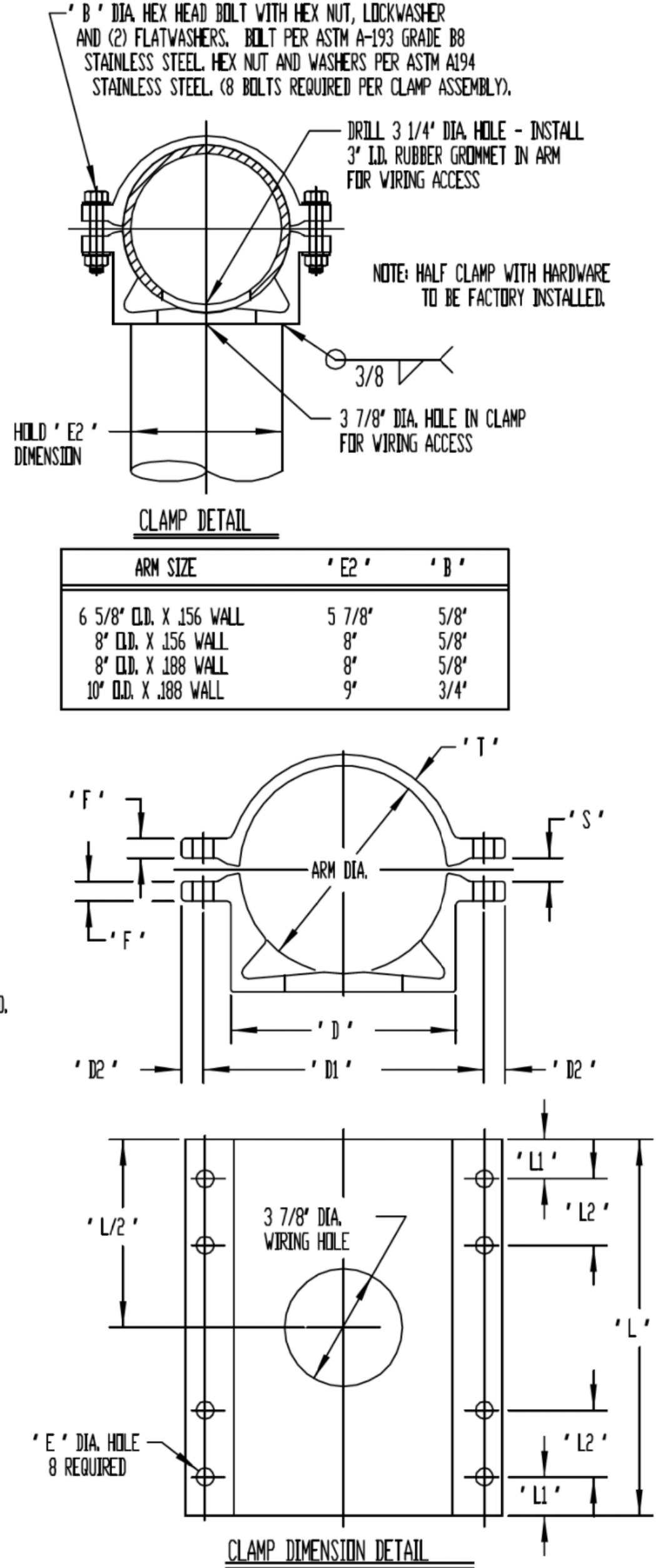


- 1.) JUNCTION BOX FOUNDATION SHALL BE SET PARALLEL TO THE CURB AND TOP OF JUNCTION BOX SHALL BE SET AT GRADE IN SIDEWALK, PAVED AREA, IN GRASS OR DIRT AREAS.
- 2.) CABLE RACKS FURNISHED AND INSTALLED AS INDICATED.
- 3.) BONDING AND GROUNDING INSULATED BUSHINGS SHALL BE INSTALLED ON METALLIC CONDUITS TERMINATING IN JUNCTION BOXES AND/OR FOUNDATIONS AND SHALL HAVE A FITTING TO PREVENT ENTRY OF FOREIGN MATTER PRIOR TO INSTALLATION OF WIRING.
- 4.) A NYLON CORD, 125 POUND MINIMUM TEST STRENGTH, SHALL BE FURNISHED AND INSTALLED IN ALL CONDUITS. SEE SPECIFICATIONS.
- 5.) CONDUITS SHALL ENTER JUNCTION BOX PERPENDICULAR TO WALLS OR AS APPROVED BY THE ENGINEER. A 2" SEPARATION SHALL BE MAINTAINED BETWEEN ADJACENT WALLS, CONDUITS, AND CABLE RACK LOCATIONS.
- 6.) TERMINAL ENDS OF ALL METALLIC CONDUIT SHALL BE THREADED.
- 7.) ALL NON-METALLIC CONDUITS SHALL TERMINATE WITH BELL END CONSTRUCTION IN JUNCTION BOX.
- 8.) ALL UNUSED CONDUITS SHALL BE PLUGGED OR CAPPED.
- 9.) ENGINEER MAY REQUIRE TOP OF JUNCTION BOX TO BE INCLINED IN ORDER TO CONFORM WITH FIELD CONDITIONS. JUNCTION BOX SHALL BE SET TO GRADE IN SIDEWALK AREA AND IN ALL OTHER AREAS.
- 10.) WARNING TAPE SHALL BE A RED 4 MIL. FLEXIBLE POLYETHYLENE FILM WHICH IS RESISTANT TO ACIDS, BASES, HYDROCARBONS AND WATER.
- 11.) IN INCLINE AREA, NO PART OF THE JUNCTION BOX SHALL EXTEND MORE THAN 4" ABOVE THE FINISH GRADE.
- 12.) JUNCTION BOX COVER WITHOUT D.O.T. LOGO SHALL BE UTILIZED FOR ALL LOCAL SIGNALIZED INTERSECTIONS AND BRIDGES ON LOCAL ROADS.

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:53
MBIPW PATH LOCATION: pwr://mb-us-pw-bentley.com/mb-us-pw-08/Documents/Hamilton, NJ/01_Projects/NJTPA/FY2018-LSEAP/B-1_UnionCounty/CADD/Plan/Contract-Set/12_Electrical/ED-1.dgn



UNION COUNTY CODE NO.	ARM LENGTH	ARM SIZE ' D1 ' X ' W ' WALL	MATERIAL SIZE SUMMARY TABLE		SHAFT SIZE ' S1 ' X ' T ' WALL	SHAFT TAPER ' S1 ' X ' S2 ' X ' S1 '	BASE WELD SIZES ' W1 ' ' W2 '	
			ARM TAPER ' D1 ' X ' D2 '	TOP CROSS-SECTION ' E1 ' X ' E2 '				
UC-SMA15-TB	15' - 0"	6 5/8" X .156 WALL	6 5/8" X 3"	9 1/2" X 5 7/8"	8" X .250 WALL	8" X 5 7/8" X 8"	5/16"	1/4"
UC-SMA20-TB	20' - 0"	8" X .156 WALL	8" X 4"	11" X 8"	10" X .188 WALL	10" X 8" X 10"	1/4	3/16"
UC-SMA25-TB	25' - 0"	8" X .188 WALL	8" X 4"	11" X 8"	10" X .250 WALL	10" X 8" X 10"	5/16"	1/4"
UC-SMA30-TB	30' - 0"	10" X .156 WALL	10" X 5"	14 5/8" X 9"	12" X .250 WALL	12" X 9" X 12"	5/16"	1/4"
UC-SMA35-TB	35' - 0"	10" X .188 WALL	10" X 5"	14 5/8" X 9"	12" X .250 WALL	12" X 9" X 12"	5/16"	1/4"



ARM DIA.	' D '	' D1 '	' D2 '	' F '	' S '	' T '	' L '	' L1 '	' L2 '	' E '
6 5/8"	7 3/16"	8 5/8"	5/8"	5/8"	13/16"	3/8"	12"	1 11/16"	2 1/8"	11/16"
8"	8 7/8"	10 5/8"	5/8"	3/4"	3/4"	11/16"	14"	1 3/16"	1 15/16"	11/16"
10"	10 1/8"	12 1/8"	7/8"	1 1/4"	2"	5/8"	18"	1 1/4"	2 3/4"	13/16"

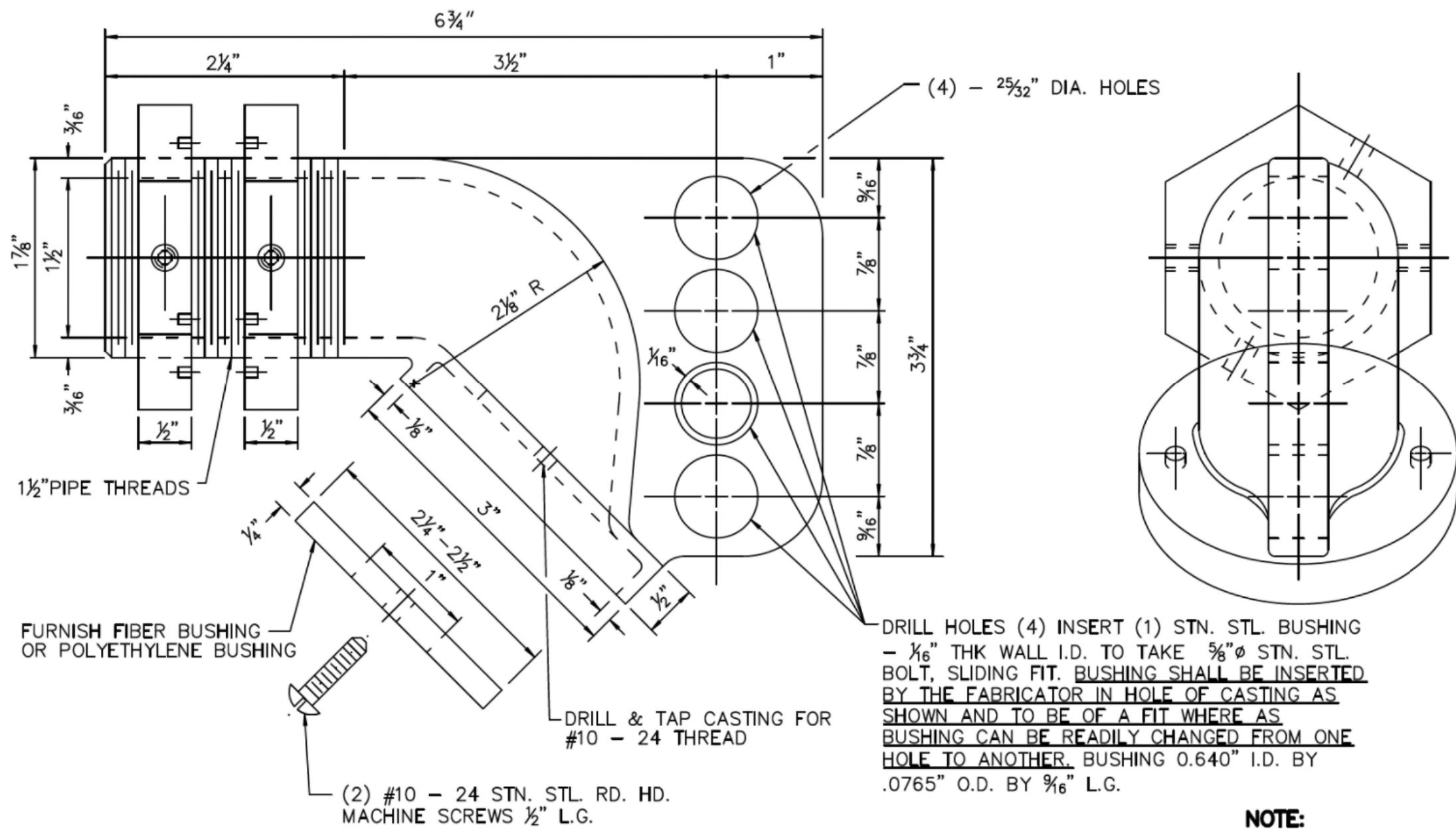
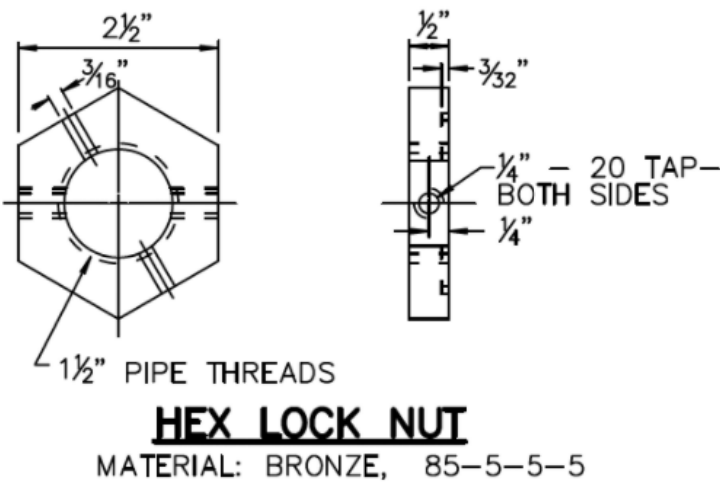
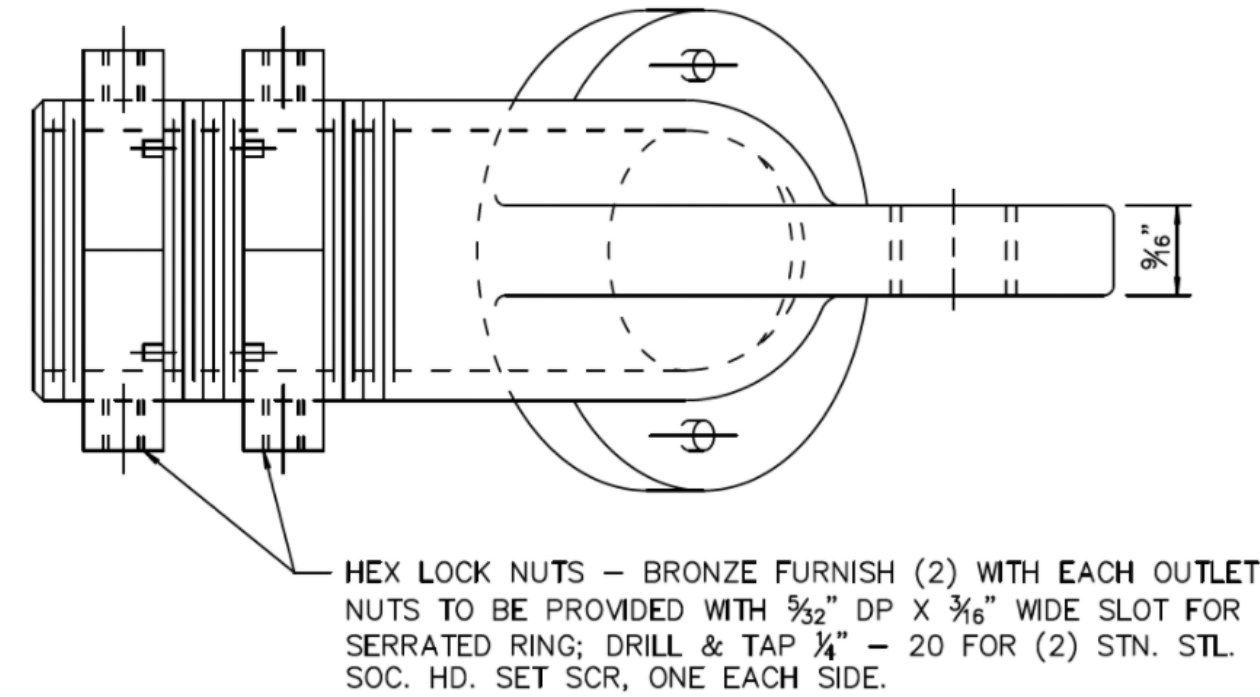
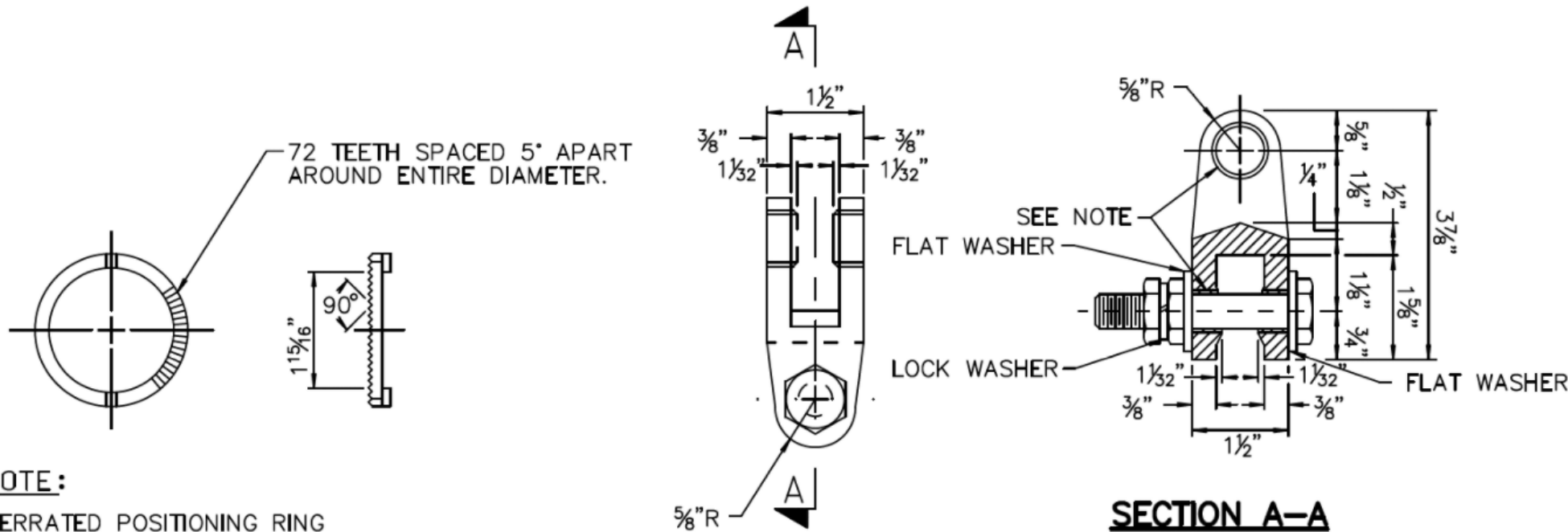
COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL DETAIL

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

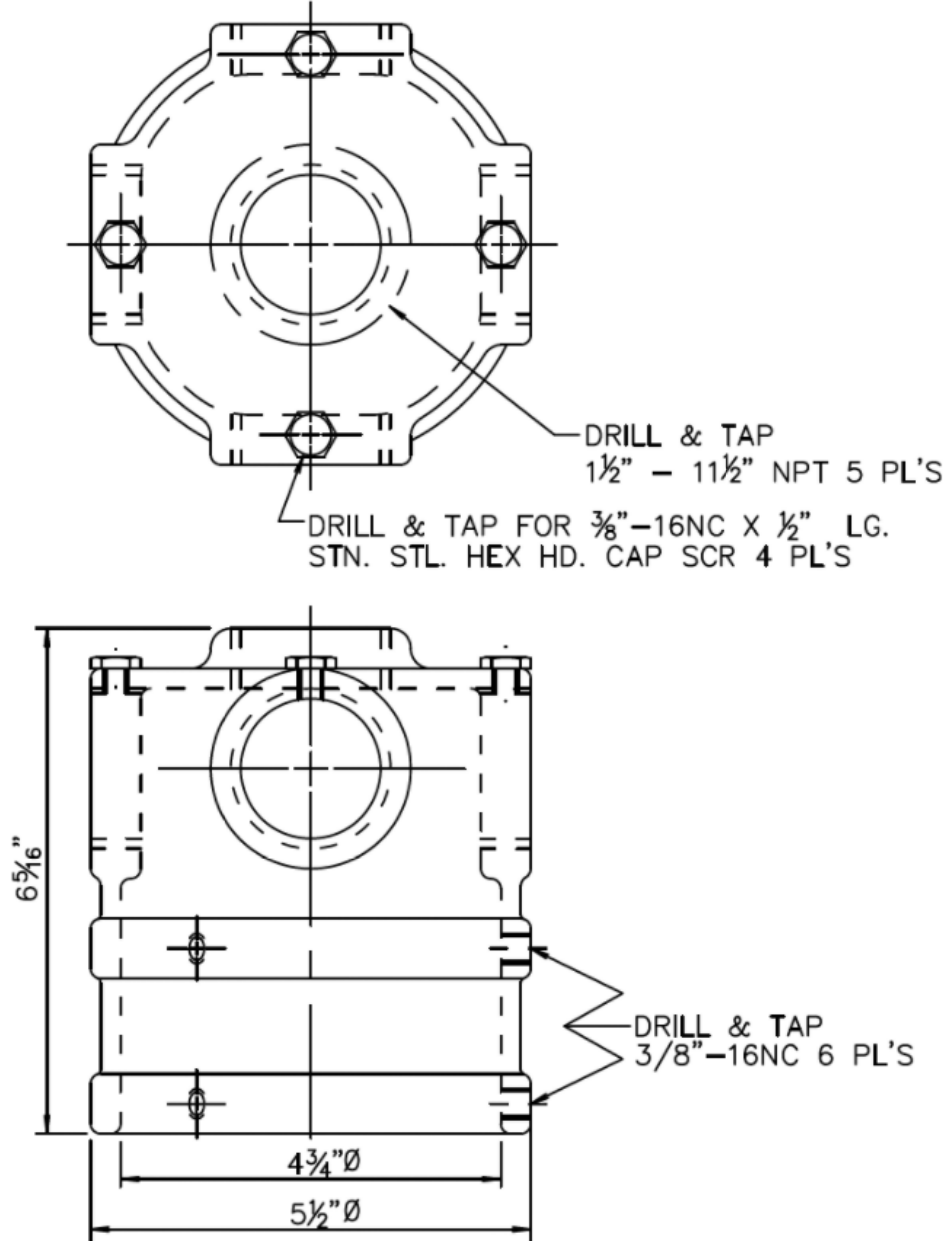
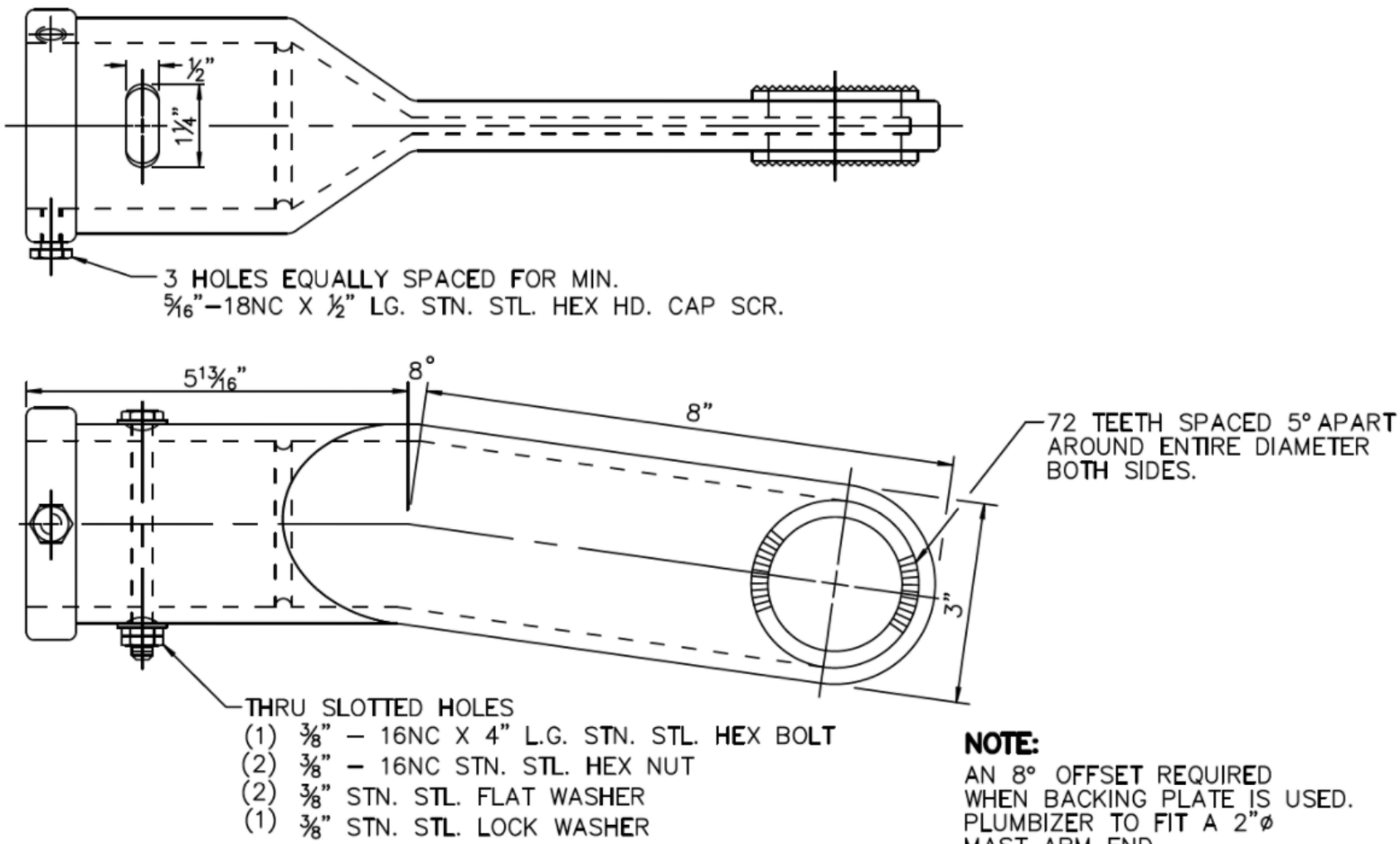
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

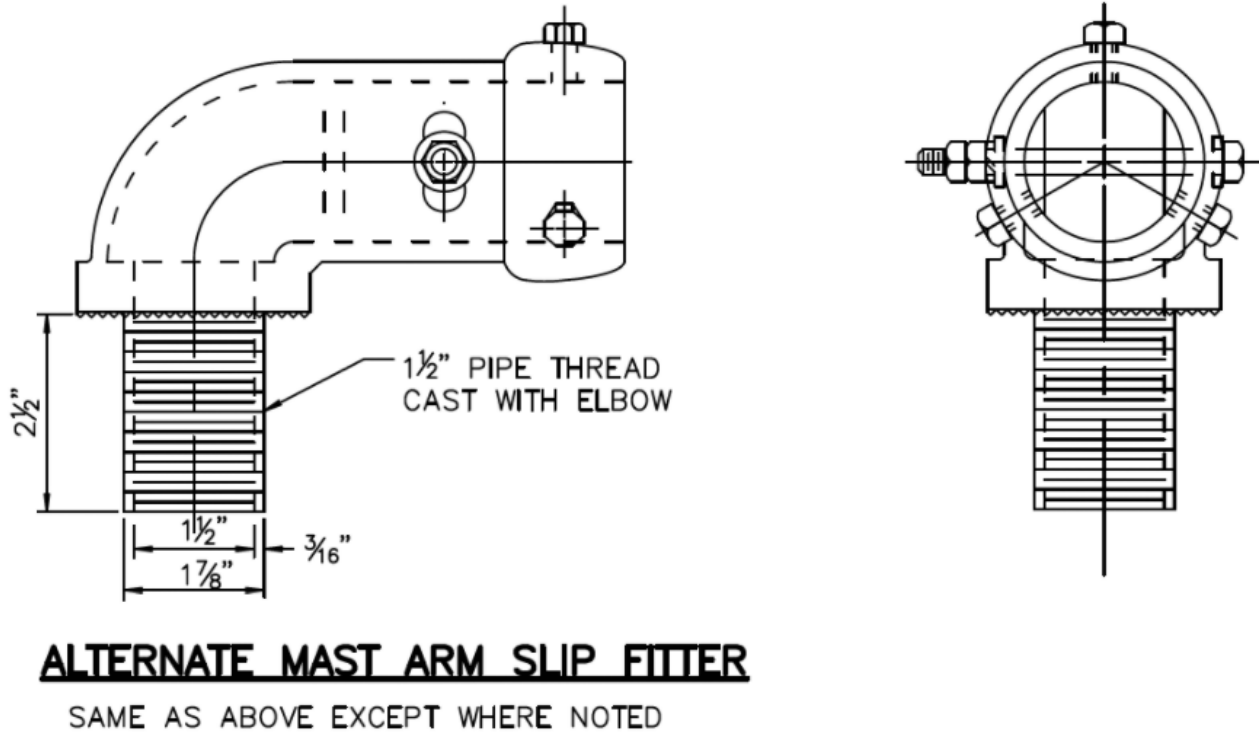
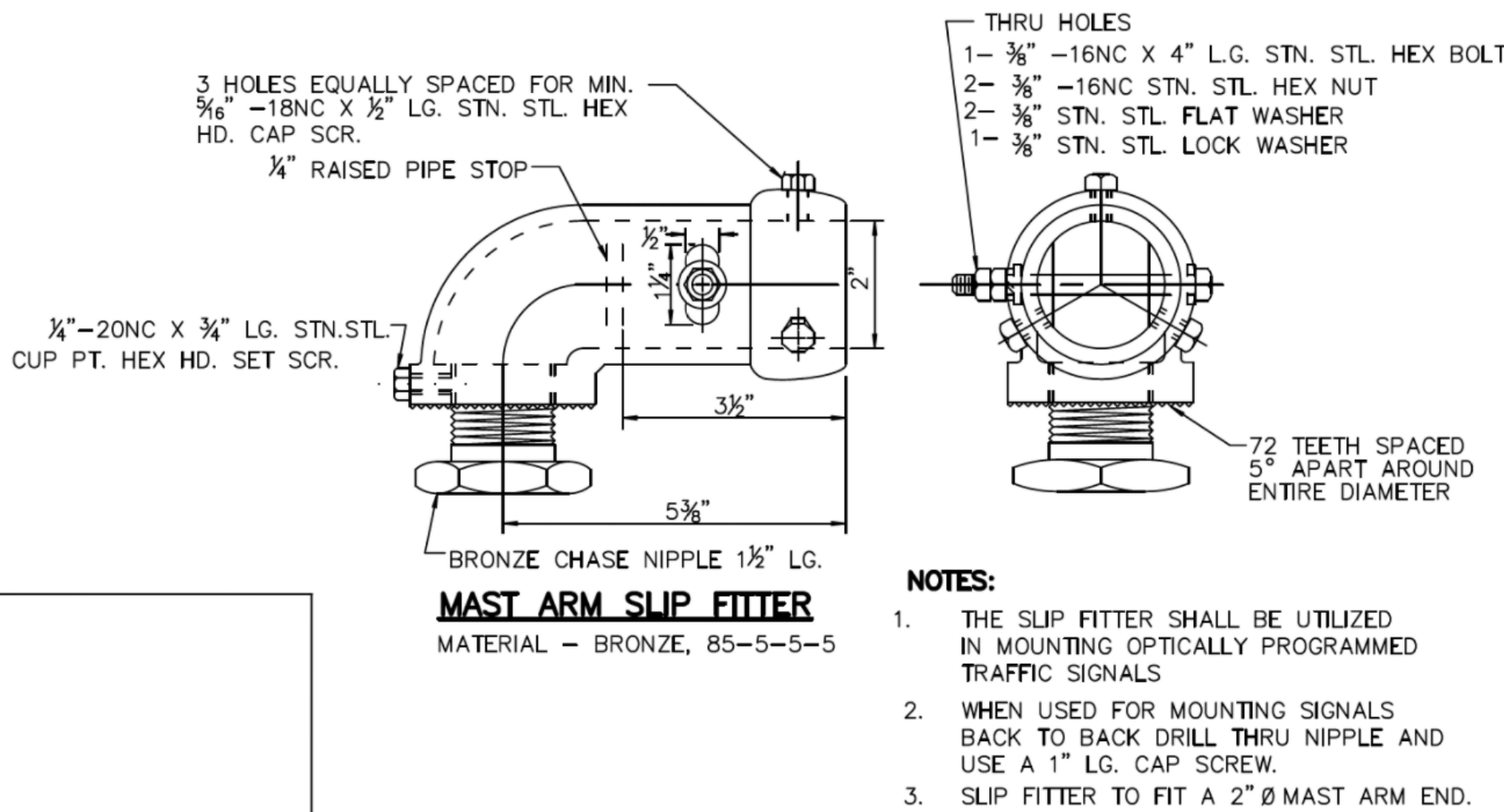
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WIRE OUTLET
MATERIAL: BRONZE, 85-5-5-5



- NOTES:
1. ALL TOLERANCES OF CASTINGS SHALL BE $\pm \frac{1}{32}$ "
 2. ALL STAINLESS STEEL BOLTS ON THIS SHEET PER ASTM A193, GRADE B8.

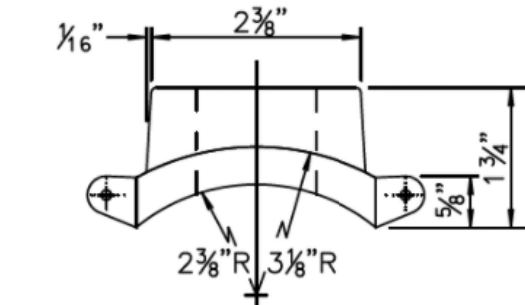
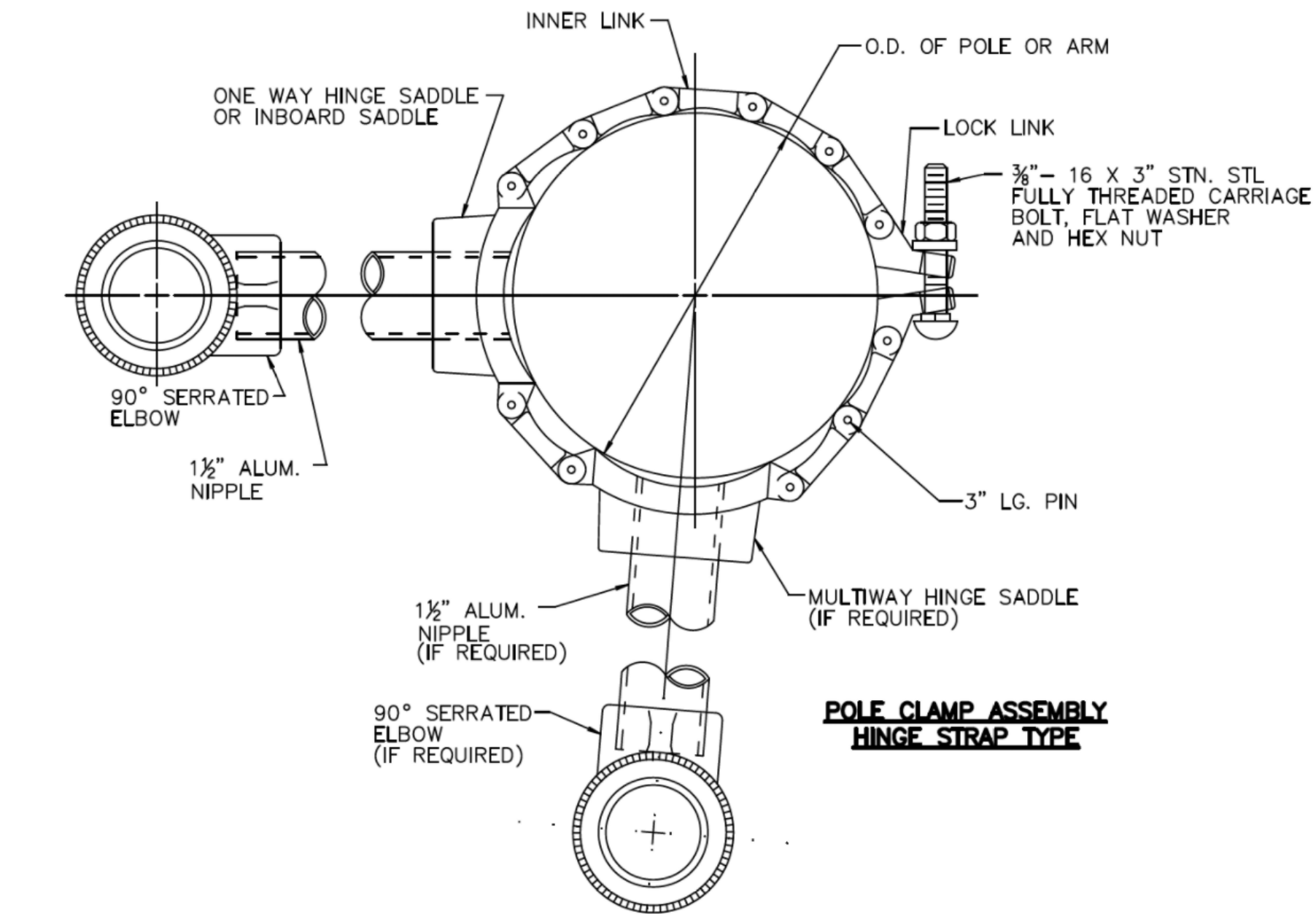


COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL DETAIL
INTERSECTIONS ALONG EAST AND WEST 7TH ST (CR 601) AND THE INTERSECTION OF EAST FRONT ST (CR 620) AND LELAND AVE
MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA279547300

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

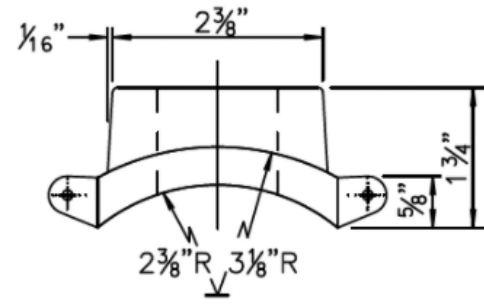


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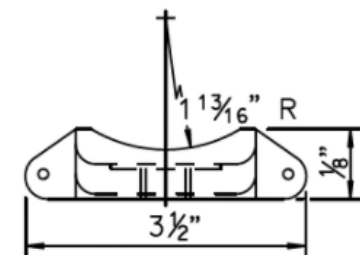
ONE-WAY HINGE SADDLE

MTL: ALUM. CASTING



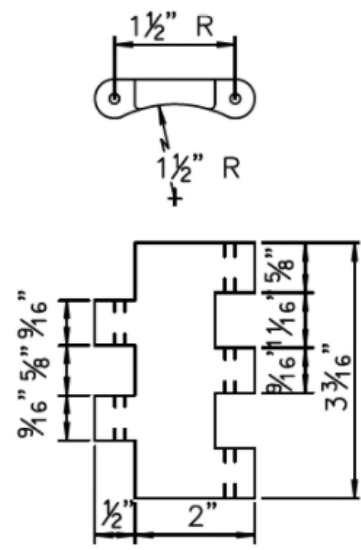
MULTI-WAY HINGE SADDLE

MTL: ALUM. CASTING



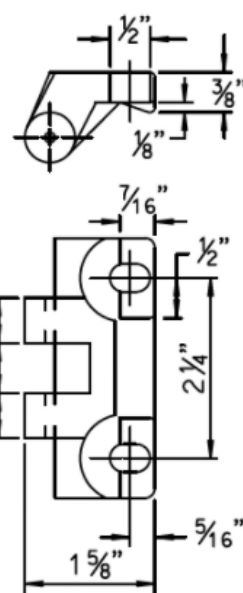
INBOARD SADDLE

MTL: ALUM. CASTING



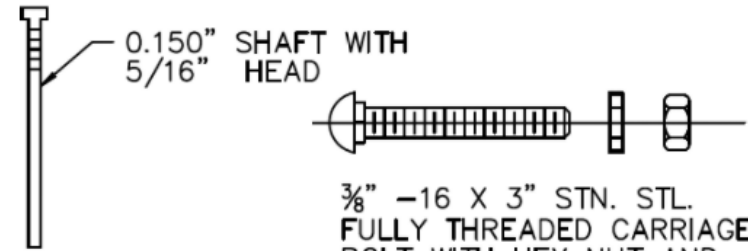
INNER LINK

MTL: ALUM. CASTING



LOCK LINK

MTL: ALUM. CASTING



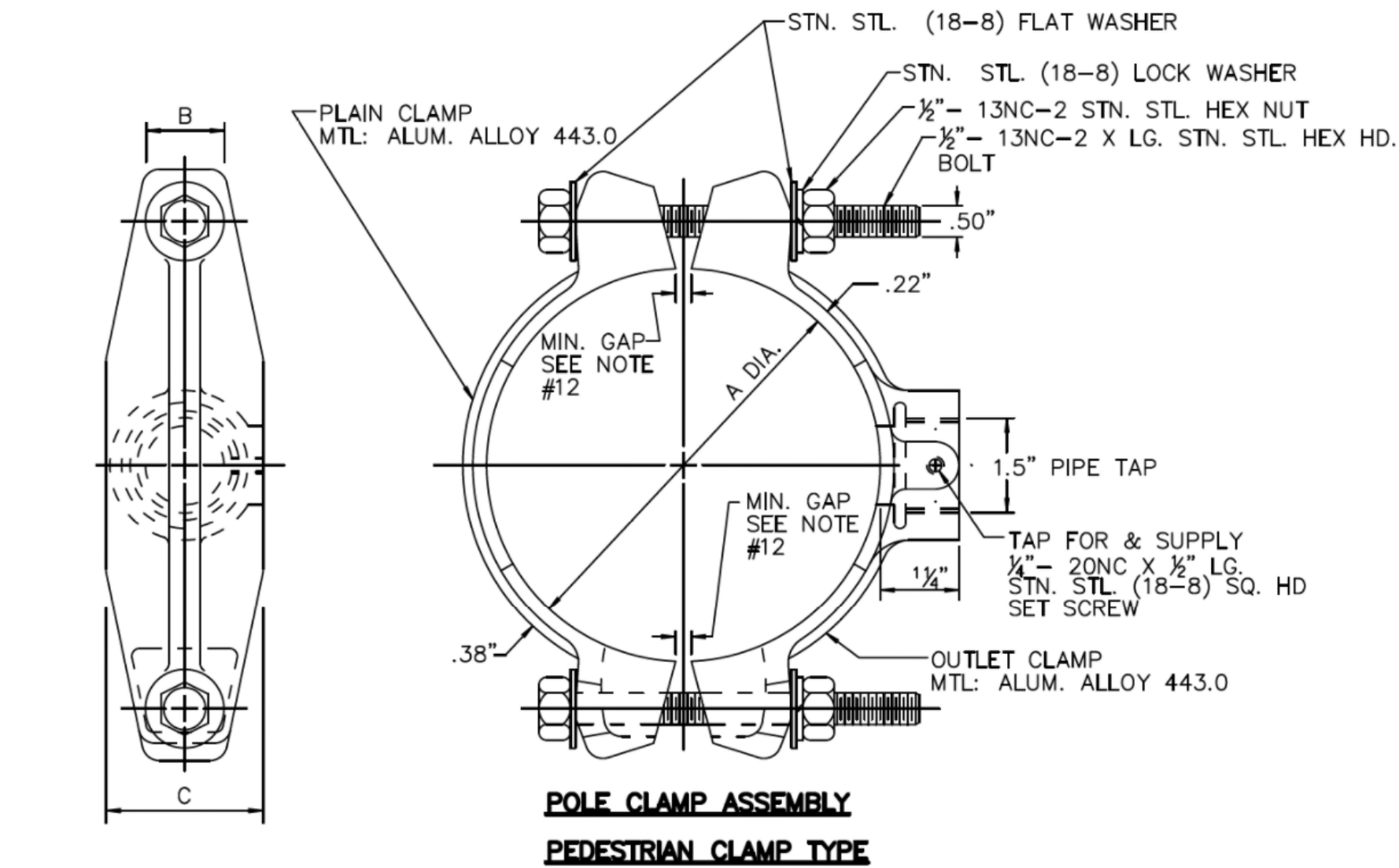
3\"/>

PROVIDED WITH SADDLES AND LINKS

NOTE:
ALL HINGE STRAPS INNER LINK AND LOCK LINK PARTS SHALL BE TUMBLED FOR 18 HOURS MINIMUM USING 3/4\"/>

NOTES:

- PEDESTRIAN CLAMP TYPE CAST ALUMINUM, CLAMP SHOWN MUST MEET THE FOLLOWING TESTS: 6\"/>
- CAST ALUM. CLAMPS OF LARGER DIA. WILL BE TESTED IN A SIMILAR MANNER.
- PROVIDE SLOTS OR SERRATIONS IN FACE OF ELBOW OR SLOTS & SERRATED POSITIONING RING. SLOTS TO BE 3/32\"/>
- UNITS SHALL BE MANUFACTURED IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS.
- INSTALL 1 1/4\"/>
- ALL STN. STL. BOLTS PER ASTM A193 GRADE B8 OR ASTM F593 ALLOY 304.
- ALL ALUM. SAND CASTINGS SHALL BE ASTM B26 ALLOY.
- ALL ALUM. NIPPLES SHALL BE 6061-T6, ASTM B-241 ALLOY; MIL. SPEC. QQA 200/80F.
- HINGE STRAP IS ADAPTABLE TO ANY POLE DIA. BY ADDING OR REMOVING INNER LINKS.
- HINGE STRAP CAN BE INSTALLED ON ROUND, SQUARE, OCTAGONAL OR ANY SHAPE POLE DESIRED.
- ALL TOLERANCES OF CASTINGS SHALL BE ±1/32\"/>
- WHEN PEDESTRIAN CLAMP IS INSTALLED ON A 6\"/>



POLE CLAMP ASSEMBLY

PEDESTRIAN CLAMP TYPE

HINGE STRAP LIST OF MATERIALS		
DESCRIPTION	MATERIAL	NO. REQ'D
HINGE SADDLE	B26-82 CAST ALUM.	2
INNER LINK	B26-82 CAST ALUM.	23*(32)
LOCK LINK	B26-82 CAST ALUM.	4
STD. 1 1/2\"/>	ALUM. ALLOY	2
90° SERRATED ELBOW	ALUM. ALLOY 443.0	2
3\"/>	ALUM. ALLOY 443.0	30*(38)
BOLT 3/8\"/>	STN. STL.	4
FLAT WASHER	STN. STL.	4
LOCK WASHER	STN. STL.	4
NUT, HEX 3/16\"/>	STN. STL.	4
MULTI-WAY HINGE SADDLE	CAST ALUM.	AS REQ'D
INBOARD SADDLE	CAST ALUM.	AS REQ'D
1 1/2\"/>	BRZ. 85-5-5-5	2

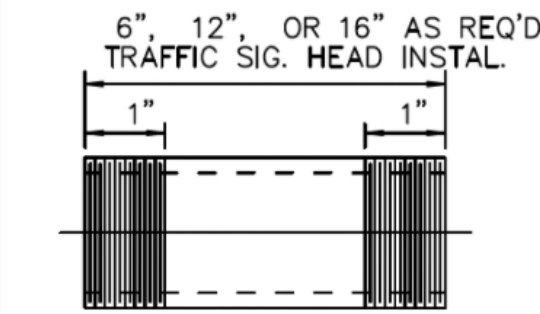
*() NUMBER REQUIRED WHEN INSTALLED ON "K" POLE

PEDESTRIAN CLAMP LIST OF MATERIALS		
DESCRIPTION	MATERIAL	NO. REQ'D
PLAIN CLAMP	ALUM. ALLOY 443.0	2
OUTLET CLAMP	ALUM. ALLOY 443.0	2
BOLT, HEX HD. 1/2\"/>	STN. STL.	4
LOCK WASHER 1/2\"/>	STN. STL.	4
FLAT WASHER 1/2\"/>	STN. STL.	8
HEX NUT 1/2\"/>	STN. STL.	4
SET SCREW, SQ. HD. 1/4\"/>	STN. STL.	2
1 1/2\"/>	BRZ. 85-5-5-5	2
90° SERRATED ELBOW	ALUM. ALLOY 443.0	2
STD. 1 1/2\"/>	ALUM. 6061-T6	2

NOTE:

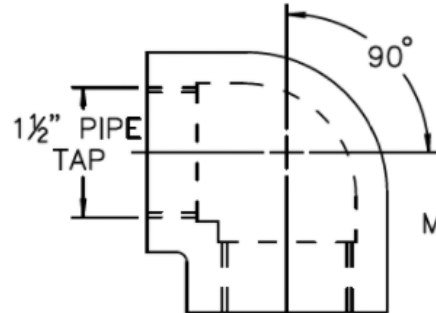
HARDWARE SHALL BE TIGHTENED AS PER TORQUE RATING AS RECOMMENDED BY THE MANUFACTURER.

PEDESTRIAN CLAMP DIMENSIONS			
A	B	C	BOLT LGTH.
6"-8"	1.25"	2.5"	6.0"
8"-10"	1.25"	2.5"	7.5"
10"-12"	1.50"	2.875"	9.0"



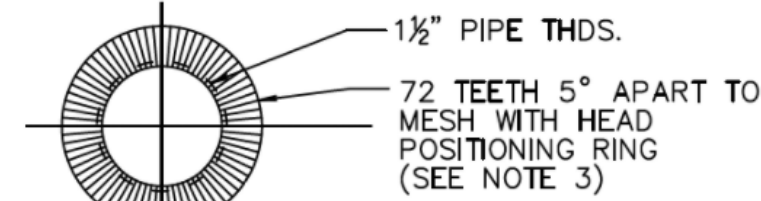
STD. 1 1/2\"/>

MTL: ALUM ALLOY 6061-T6 ASTM B-241



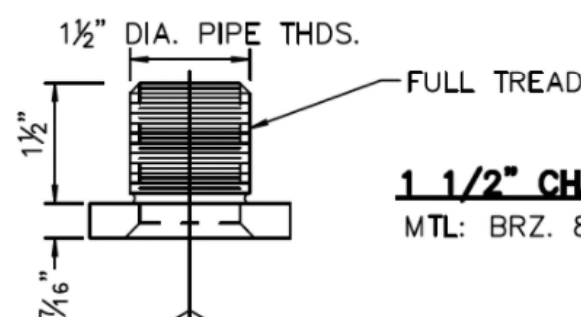
ELBOW

MTL: ALUM. ALLOY 443.0



1 1/2\"/>

72 TEETH 5° APART TO MESH WITH HEAD POSITIONING RING (SEE NOTE 3)



1 1/2\"/>

MTL: BRZ. 85-5-5-5

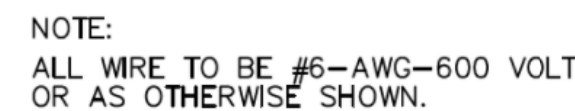
NIPPLE, ELBOW AND/OR CHASE NIPPLE TO BE USED WITH HINGE STRAP OR PEDESTRIAN CLAMP AS REQUIRED.

ELECTRICAL DETAIL

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA279547300

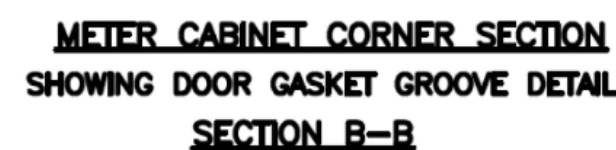
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300



SCHEMATIC WIRING DIAGRAM: 120/240 VOLT

LEGEND

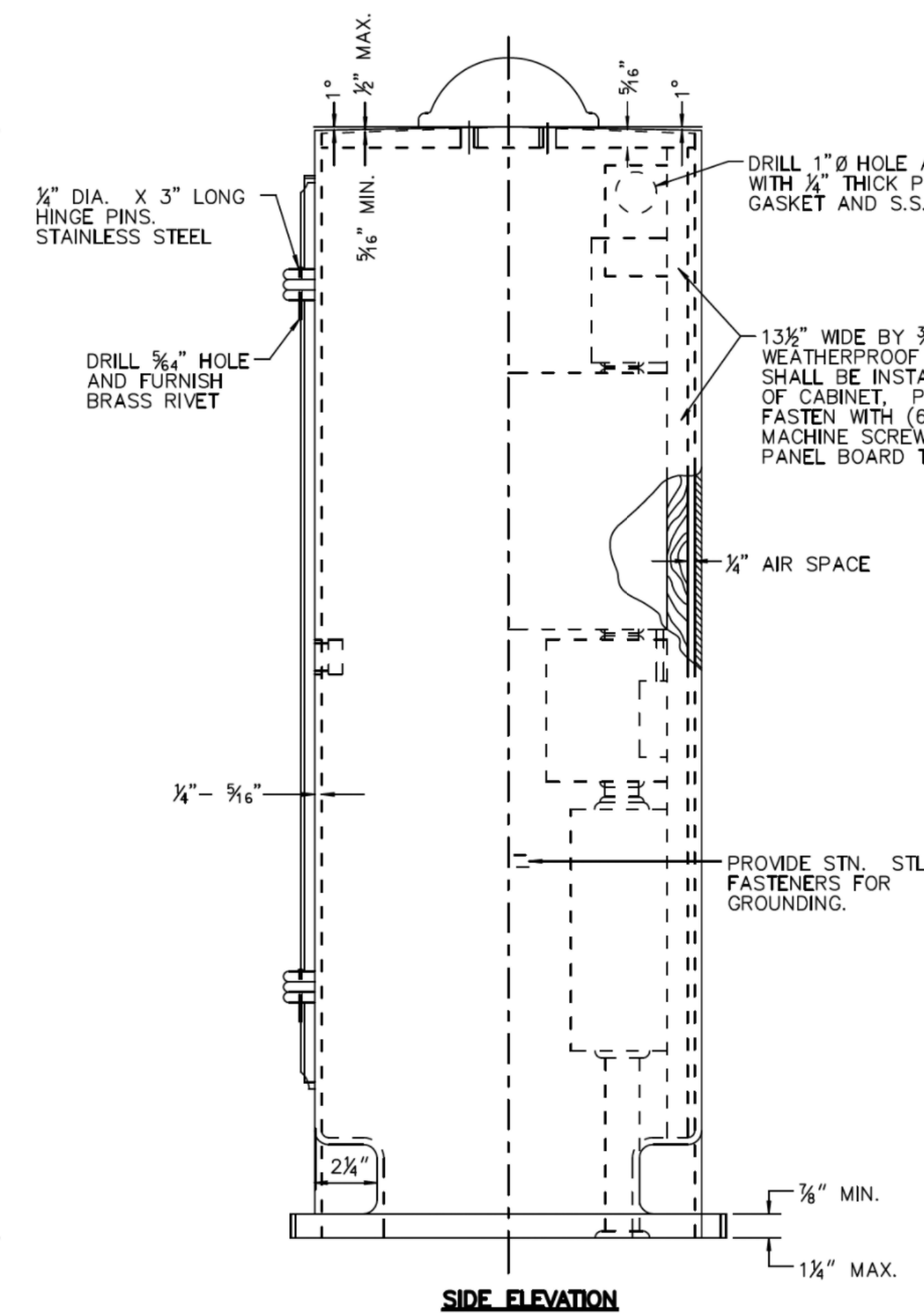
- ① **METER SOCKET—INSTALLED BY CONTRACTOR—PROVIDED BY UTILITY COMPANY ON REQUEST. (IN JCP&L CO. AREA METER SOCKET IS TO BE INSTALLED AND FURNISHED BY CONTRACTOR)**
- ② **4/8 CIRCUIT LOAD CENTER WITH ENCLOSURE COMPLETE WITH 1—30A & 5—20A CIRCUIT BREAKERS.**
- ③ **MAGNETIC CONTACTOR, 30 AMP, 120 VOLT COIL NEMA 1 ENCLOSURE.**
- ④ **PHOTOELECTRIC CONTROL UNIT 15 AMP. SHUNT SWITCH IN 2" X 4" HANDY BOX OR EQUIVALENT.**
- ⑤ **WEATHERPROOF, 20A DUPLEX RECEPTICAL GROUND FAULT.**
- ⑥ **IF METER IS NOT REQUIRED, INSTALL 1" I.D. SEALTITE FLEX CONDUIT AND 1" I.D. NIPPLE FROM REDUCER COUPLING TO MAIN BREAKER PANEL.**
- ⑦ **A 40 AMP BREAKER SHALL BE INSTALLED WITH EIGHT PHASE CONTROLLER ASSEMBLIES.**
- ⑧ **FOR METER CABINET TYPE "TL", PHOTOELECTRIC CONTROL AND MAGNETIC CONTACTOR SHALL BE FURNISHED AND INSTALLED.**
- ⑨ **THE TOTAL NUMBER OF CIRCUIT BREAKERS SHALL NOT EXCEED SIX.**



METER CABINET TYPE "T"
METER CABINET TYPE "TL" - SEE NOTE #8

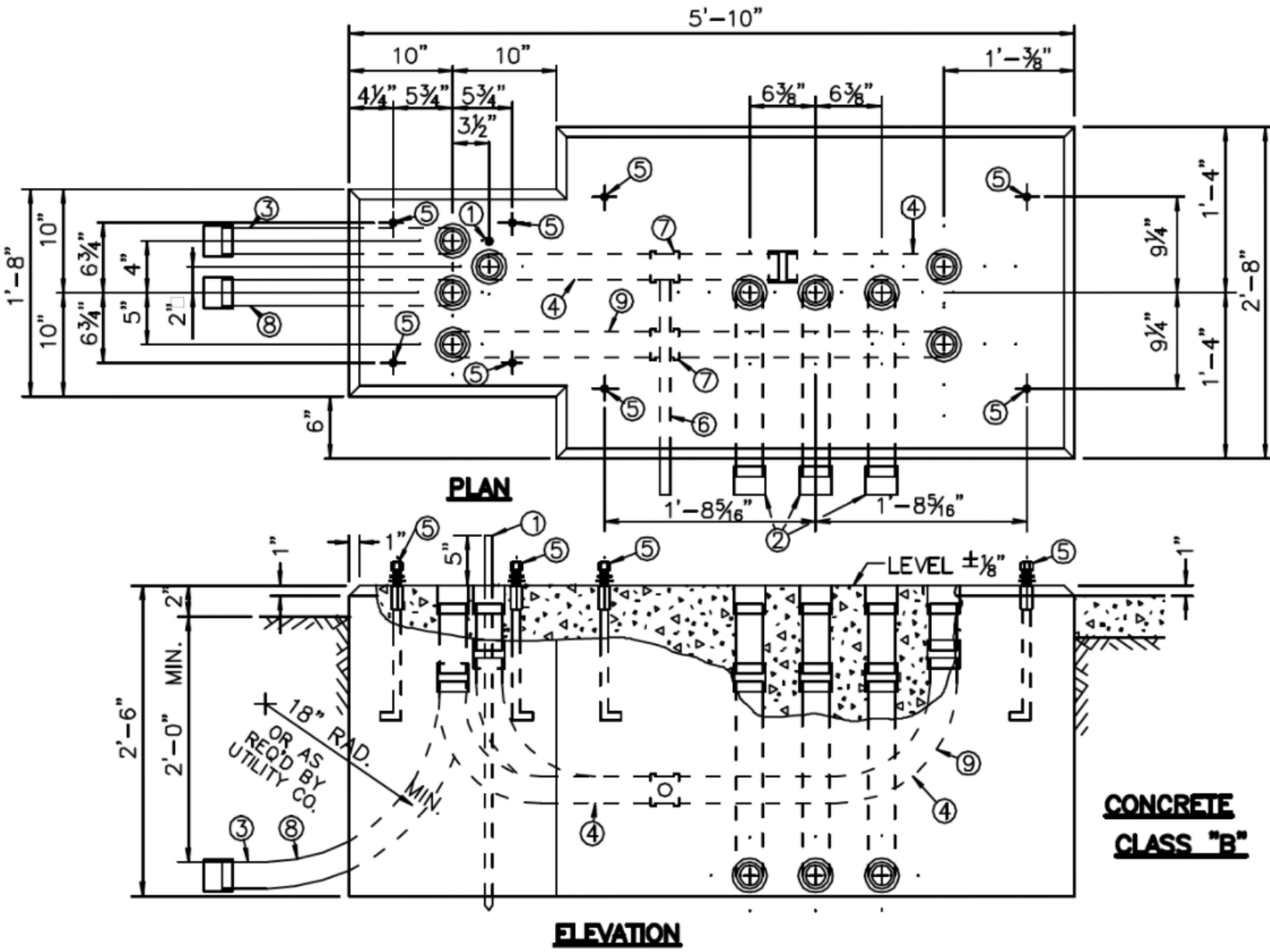


- ALUMINUM ALLOY, COMMERCIAL DESIGNATION 356
A.S.T.M. DESIGNATION B26-56T, ALLOY SG 70A.
- THE CABINET SHALL BE FREE OF BURRS, SHARP EDGES,
DENTS, PINHOLES, AND PARTING LINES AND SHALL HAVE
A UNIFORM #30 GRIT FINISH.
- FOR ALTERNATE FABRICATED METER CABINET SEE DWG. T-35



USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:54
MBIPW PATH LOCATION: PW:/mb-us-pw-bentley.commb-us-pw-08/Documents/Hamilton, NJ/01 Projects/NJTPA/176703_NJTPA-FY-2018-LSEAP/B-1 Union-County/CADD/Plan/Contract-Sets/12_Electrical/ED-6.dgn

CITY OF PLAINFIELD



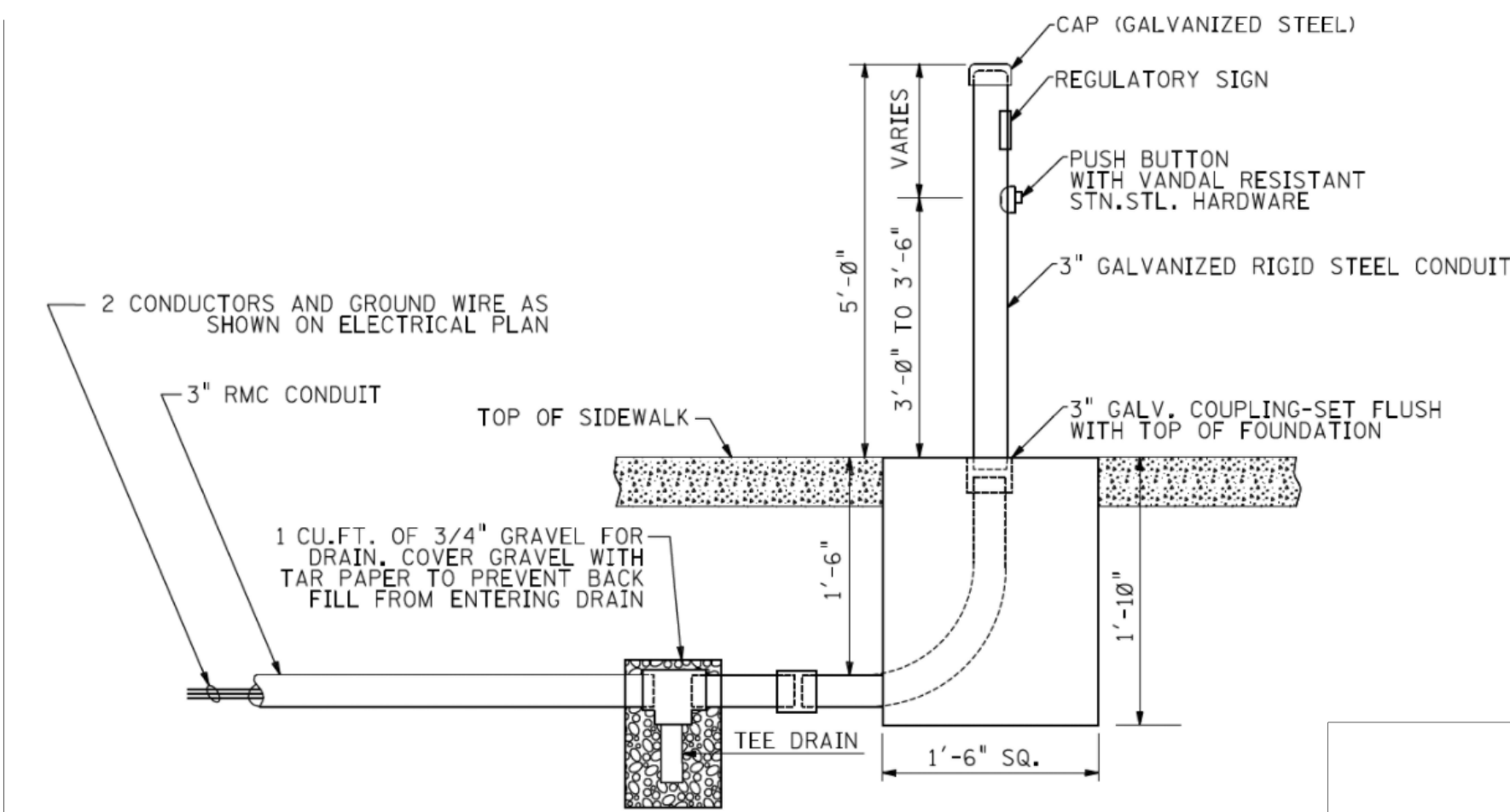
FOUNDATION TYPE "P-MC"

ITEM

1. 3/8" X 12' LG. GROUND ROD.
2. 3" DIA. RIGID METALLIC CONDUIT. (ALL SHALL EXTEND TO JUNCTION BOX)
3. RIGID METALLIC CONDUIT (SERVICE CONDUIT). SEE GENERAL PLAN FOR DIRECTION AND SIZE
4. 2" DIA. RIGID METALLIC CONDUIT (SERVICE CONDUIT)
5. 3/4" DIA. ANCHOR BOLTS (SEE "SPF" FOUNDATION FOR DETAILS)
6. DRAIN 1" DIA. RIGID METALLIC CONDUIT (PITCH TO JUNCTION BOX).
7. 2" X 2" X 1" GALV. TEE FITTING.
8. RIGID METALLIC CONDUIT (INTERCONNECT CONDUIT). SEE GENERAL PLAN FOR DIRECTION AND SIZE IF NOT SPECIFIED 2" DIA. RMC SHALL BE INSTALLED.
9. 2" DIA. RIGID METALLIC CONDUIT (INTERCONNECT CONDUIT)

NOTES:

1. ALL CONDUIT SHALL BE INSTALLED SO THAT COUPLINGS ARE EMBEDDED PLUMB AND FLUSH WITH TOP OF CONCRETE FOUNDATION.
2. J-BOLT MUST BE INSERTED 1/2" ± 1/8" INTO 3" COUPLING
3. ALL FOUNDATIONS SHALL BE POURED MONOLITHIC

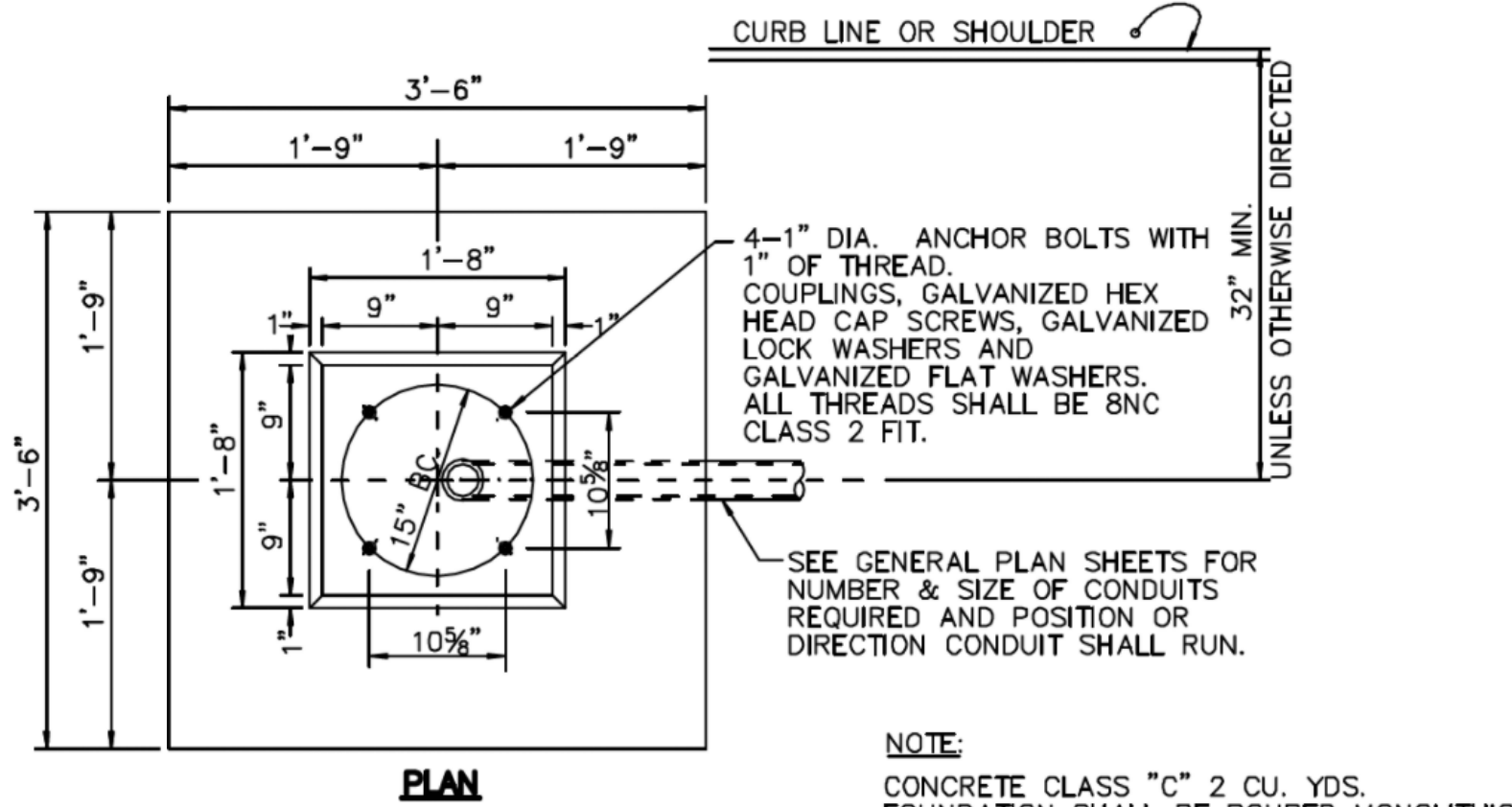


PUSH BUTTON INSTALLATION

N.T.S

NOTES:

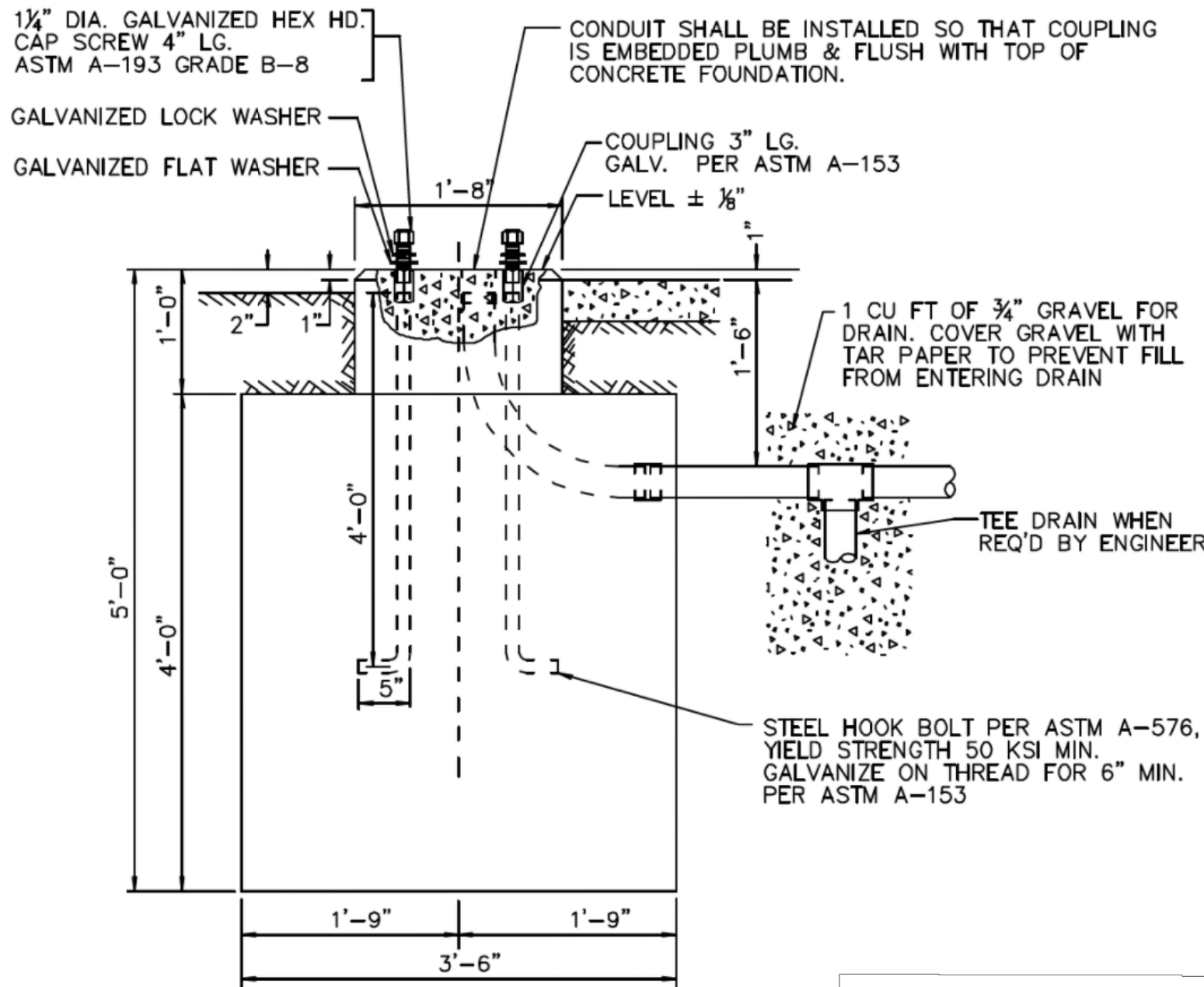
1. ALL SIGNS AND PUSH BUTTONS SHALL BE ADA COMPLIANT.
2. REGULATORY SIGN TO BE RIGIDLY FIXED TO METAL PLATE FASTENED TO POST AT MINIMUM TWO POINTS.
3. DISTANCE BETWEEN FULLY DEPRESSSED PUSH BUTTON AND FACE OF GUIDE RAIL OR OTHER OBSTRUCTION SHALL BE A MAXIMUM OF 24".
4. DISTANCE OF BUTTON OF PUSH BUTTON ASSEMBLY ABOVE FINISHED GRADE SHALL BE A MAXIMUM OF 3'-6" AND A MINIMUM OF 3'-0".
5. WHEN THIS INSTALLATION IS IN EARTH WITHOUT SIDEWALK, SET TOP OF FOUNDATION, 2" ABOVE EXISTING GROUND.
6. FOUNDATION TO BE 1'-6" X 1'-6" X 1'-10" OF CLASS "B" CONCRETE.



PLAN

NOTE:

CONCRETE CLASS "C" 2 CU. YDS.
FOUNDATION SHALL BE POURED MONOLITHIC



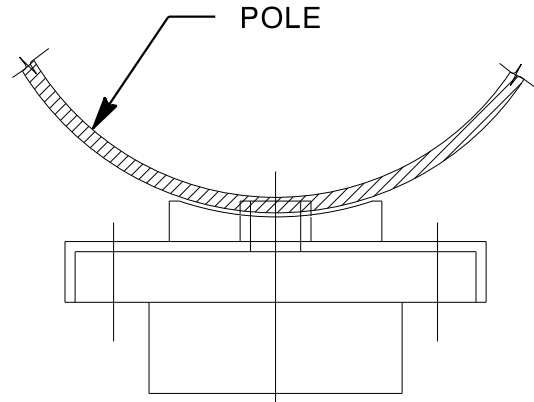
ELEVATION

STANDARD FOUNDATION TYPE SFT-H

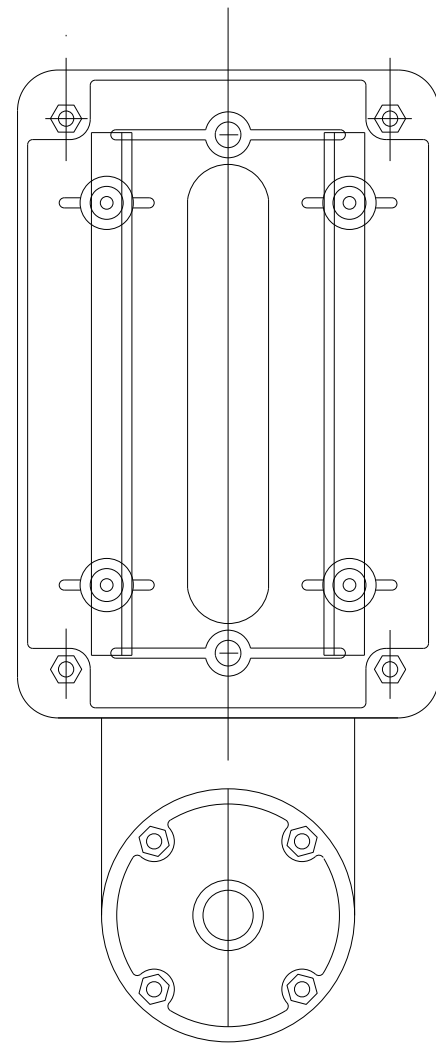
NOTES:

1. BACK CASTING SHAPE TO FIT CURVATURE OF POLE.
2. PROVIDE COVER FITTING FOR TOP OF POST, WHEN PBA IS MOUNTED ON PUSH BUTTON ASSEMBLY POST.
3. INSTALL PUSH BUTTON ON CROSSWALK SIDE OF STANDARD.
4. USE R10 SERIES REGULATORY SIGNS AND PLAQUES FOR PEDESTRIAN AND BICYCLE FACILITIES.

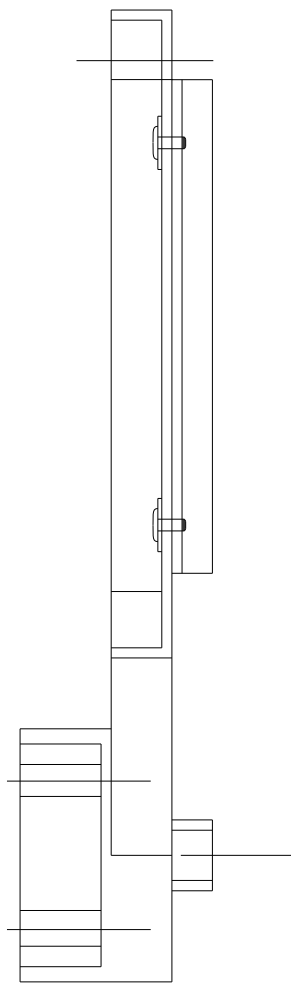
COUNTY OF UNION



TOP VIEW



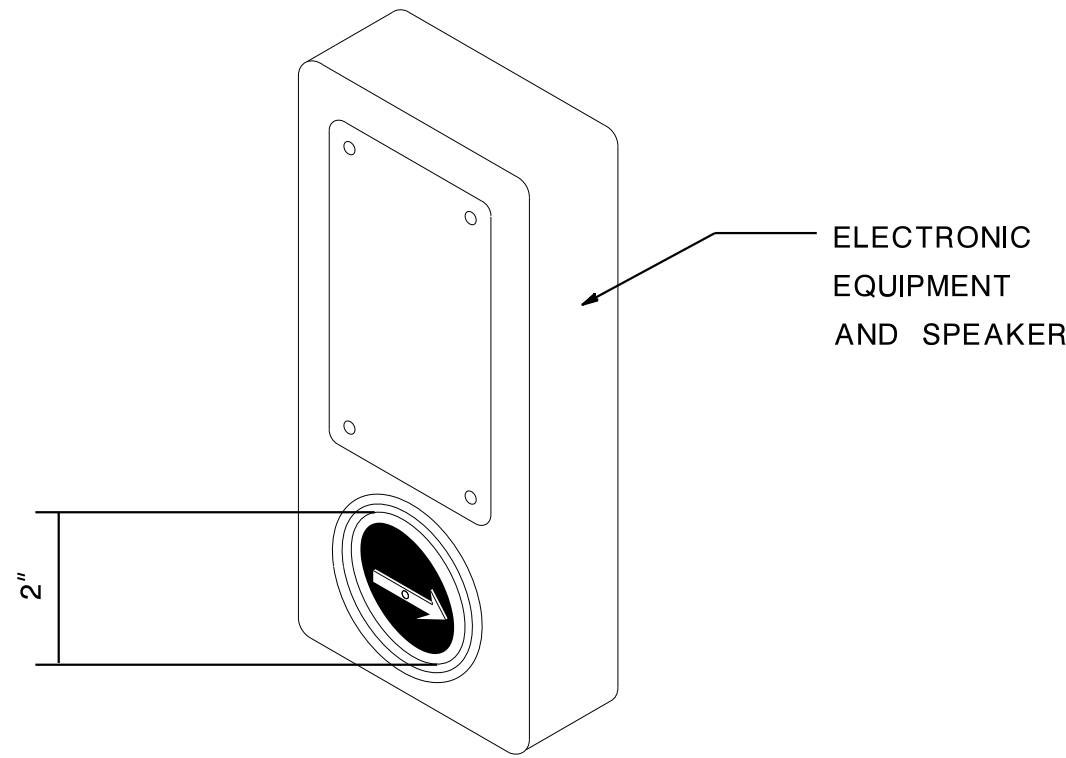
FRONT VIEW



SIDE VIEW

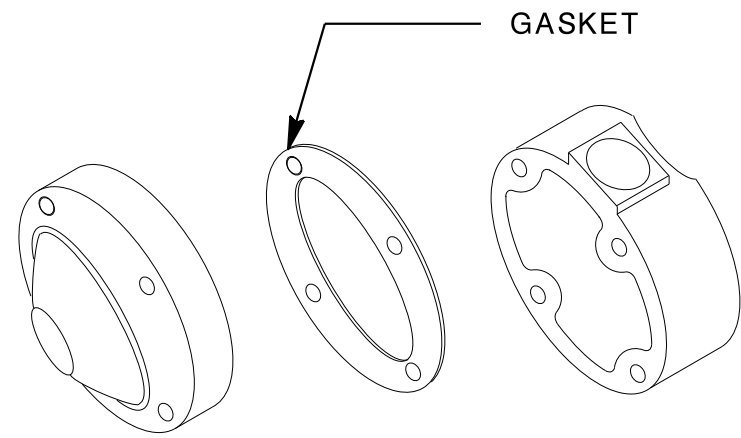
TYPE B PUSH BUTTON ASSEMBLY

DETAIL B

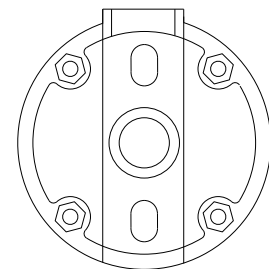


ACCESSIBLE PEDESTRIAN SIGNAL

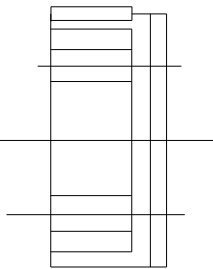
DETAIL A



TOP VIEW



FRONT VIEW



SIDE VIEW

TYPE C PUSH BUTTON ASSEMBLY

DETAIL C

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL DETAIL

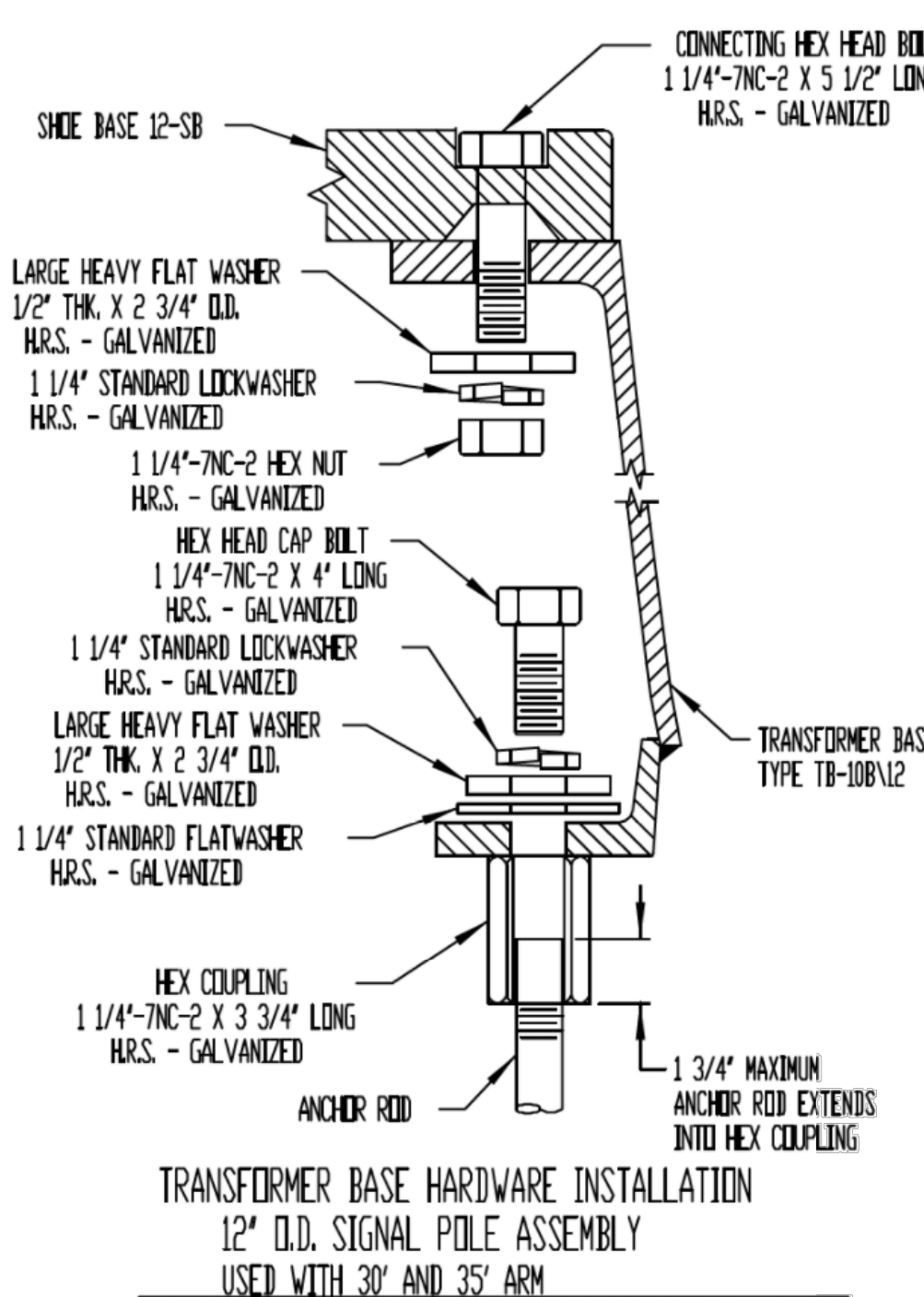
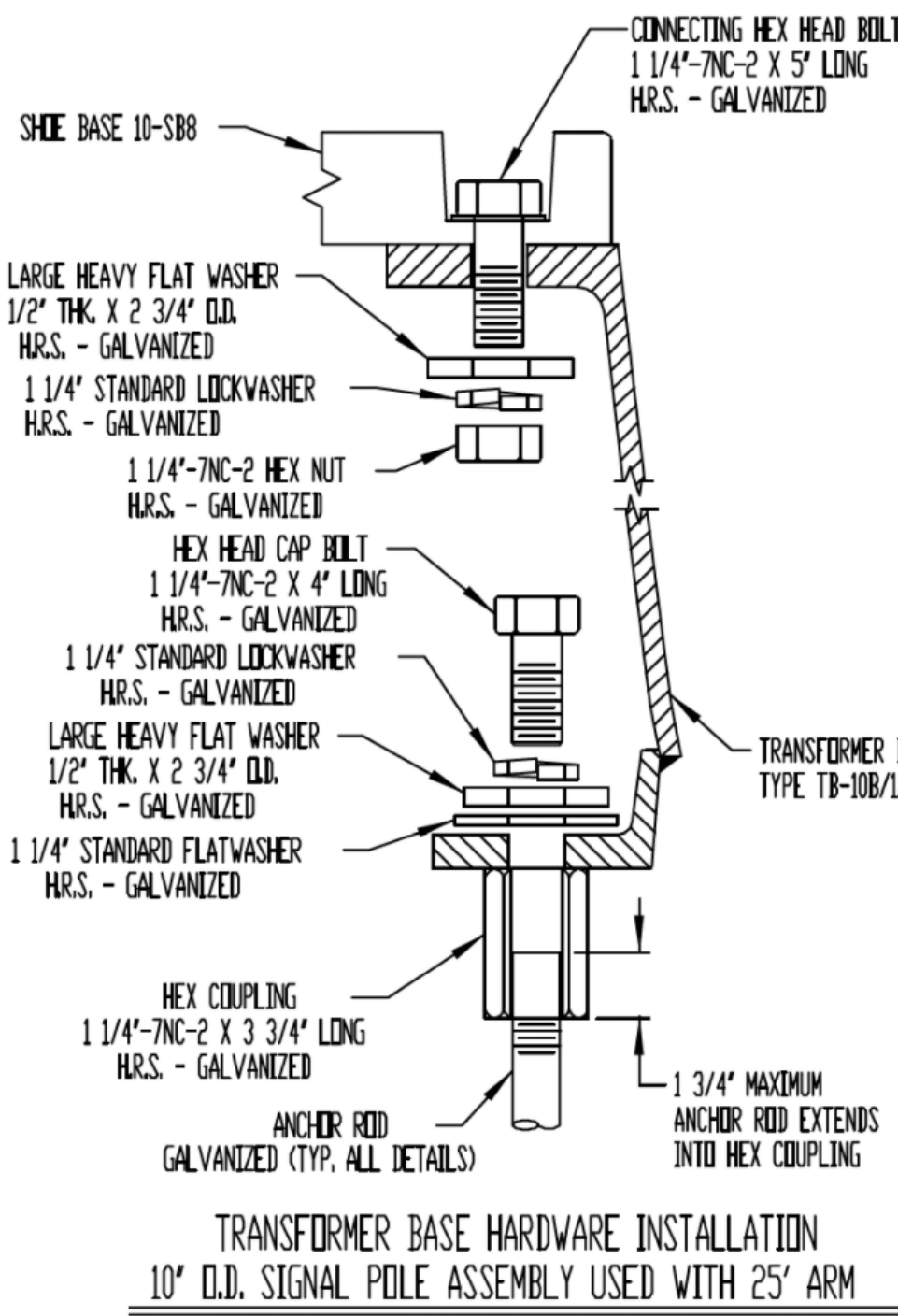
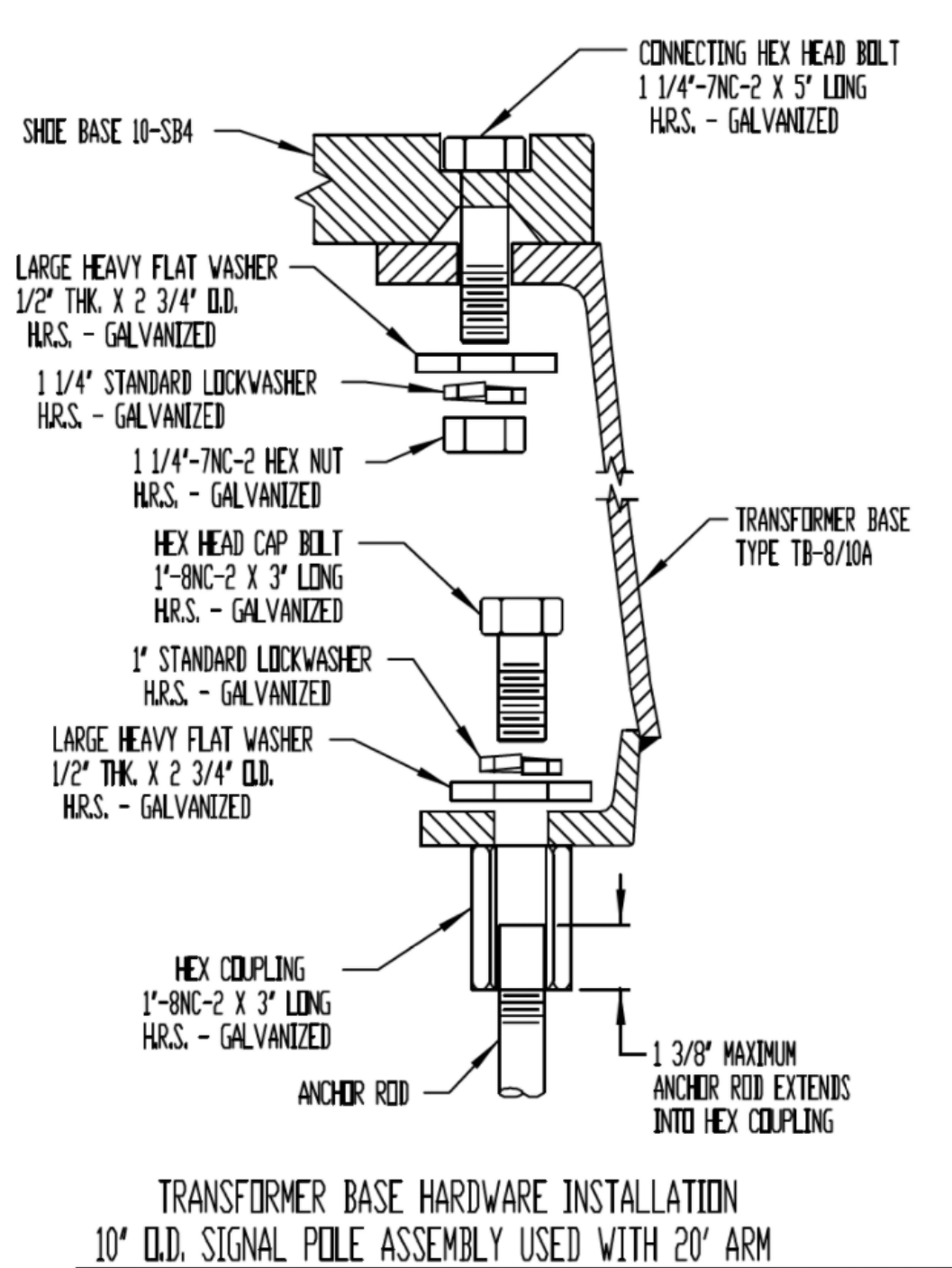
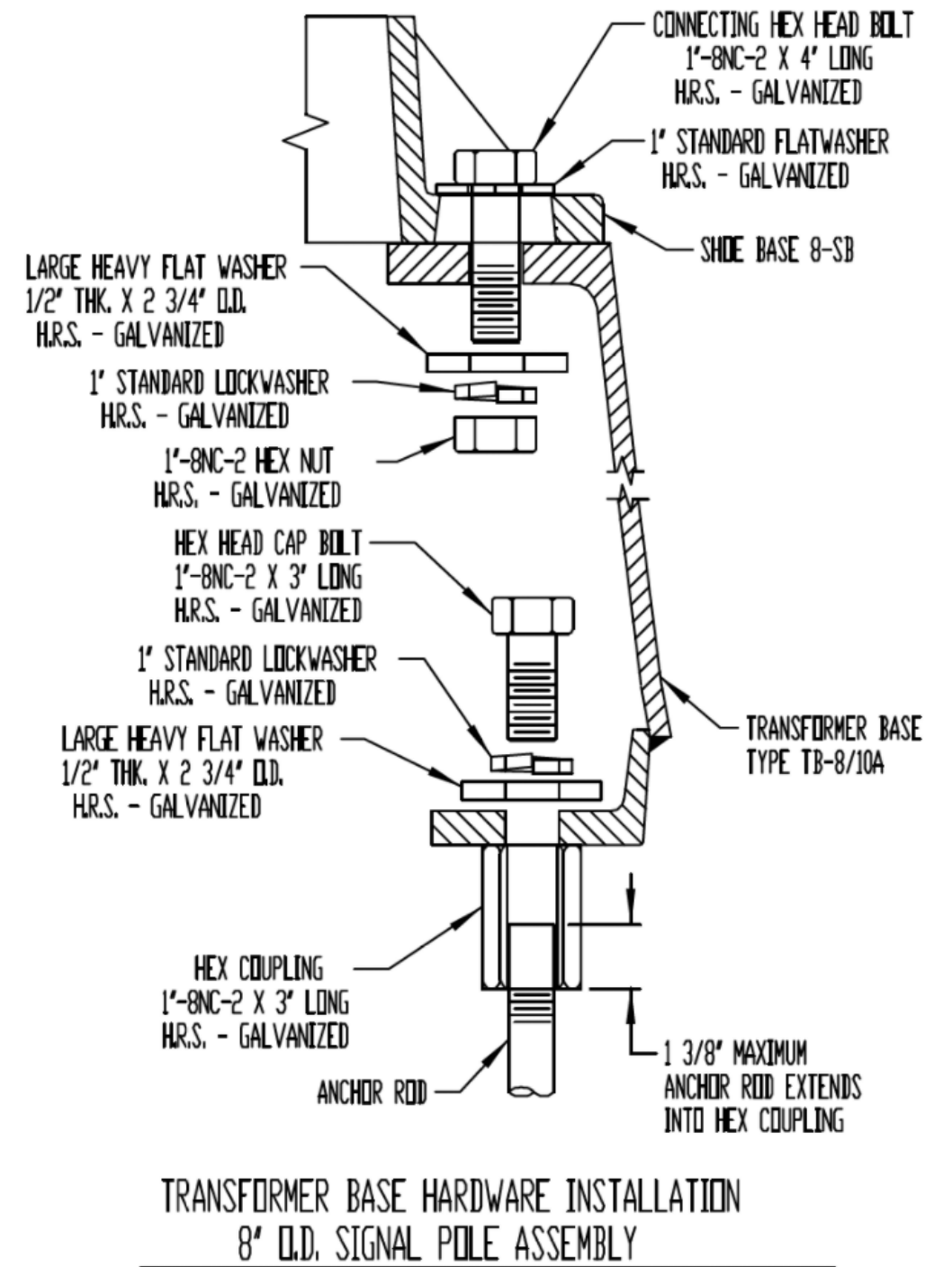
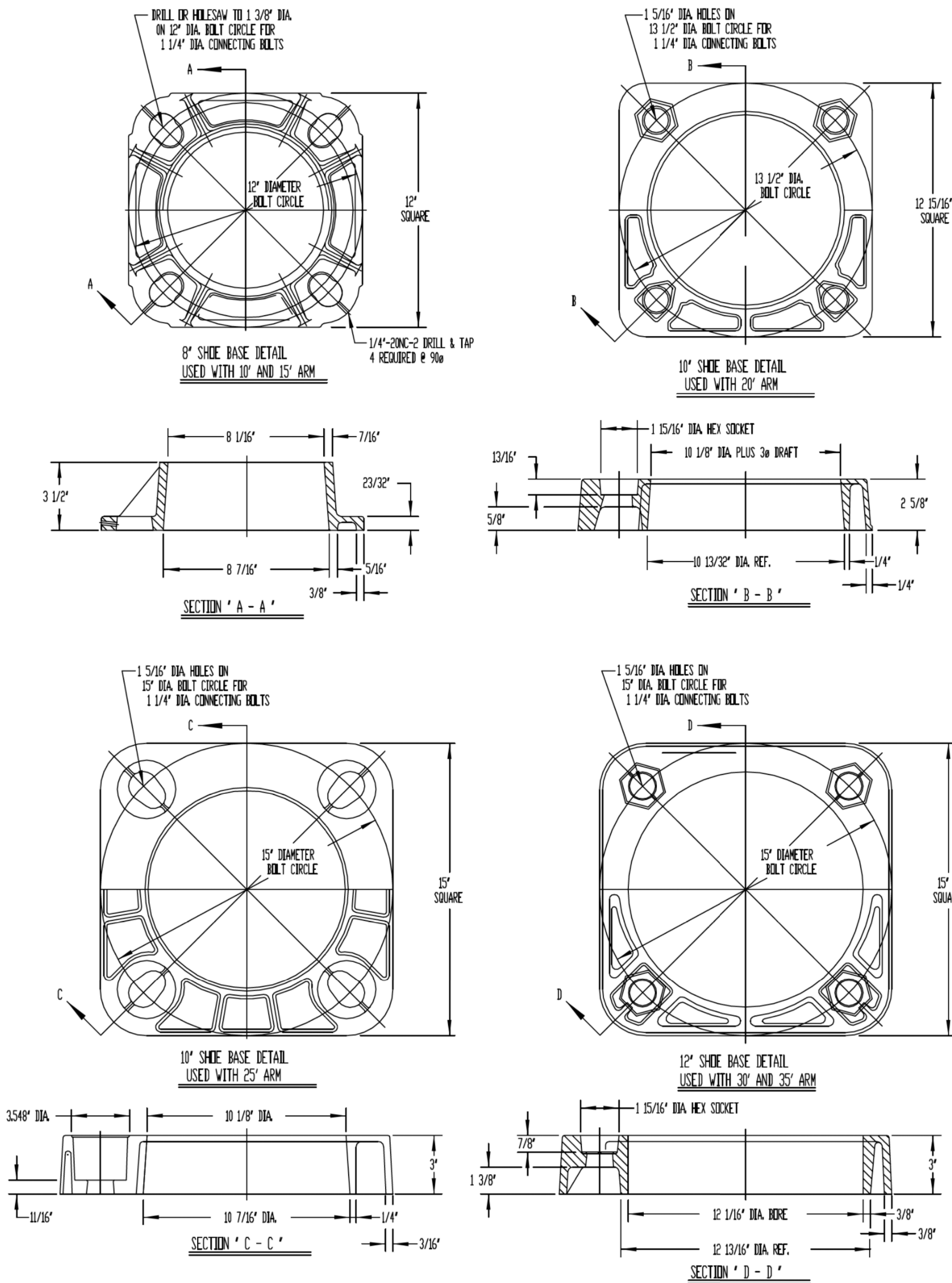
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

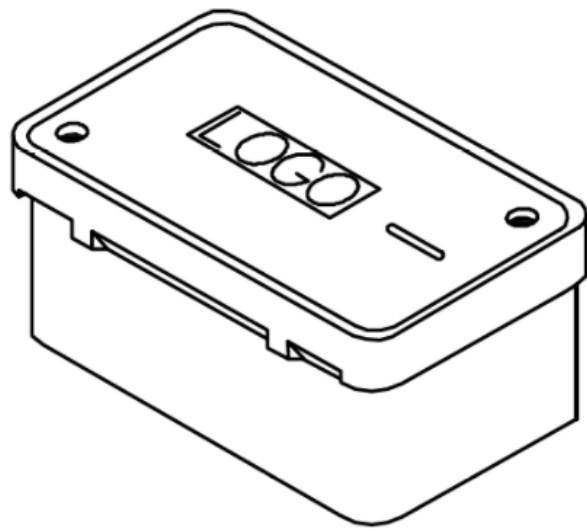
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

ED-6
ED-11

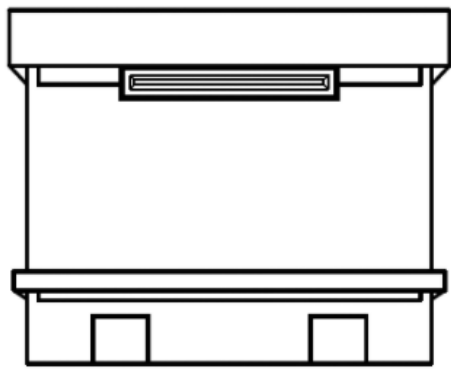
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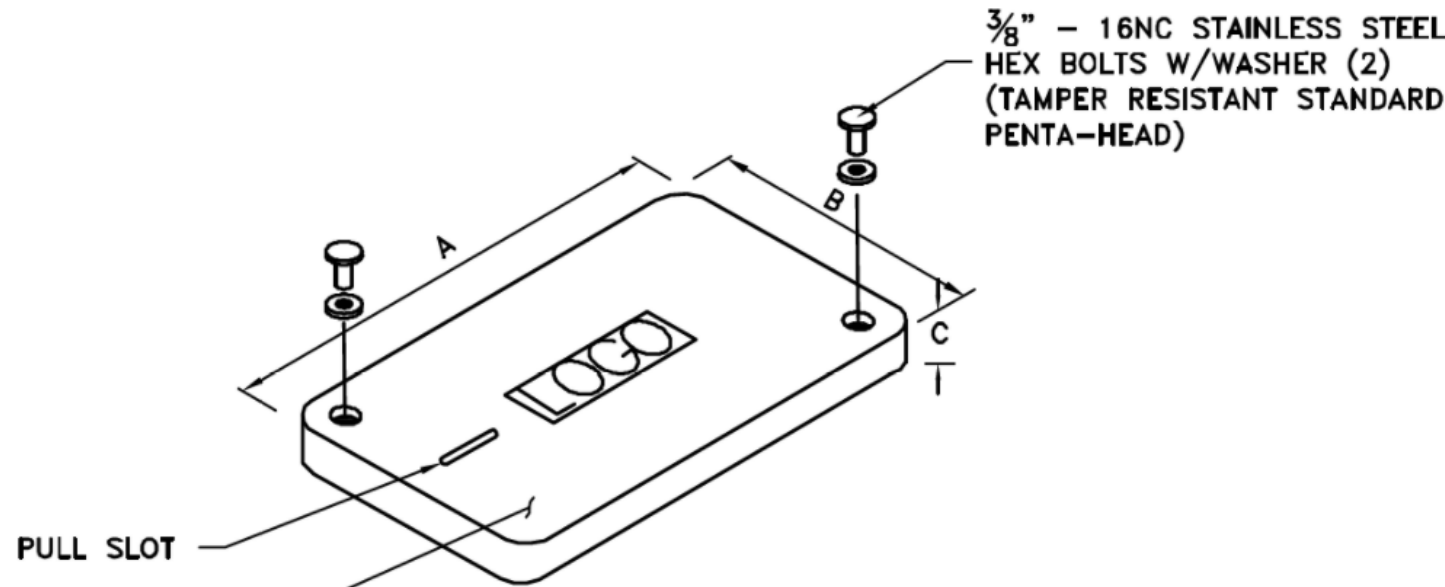
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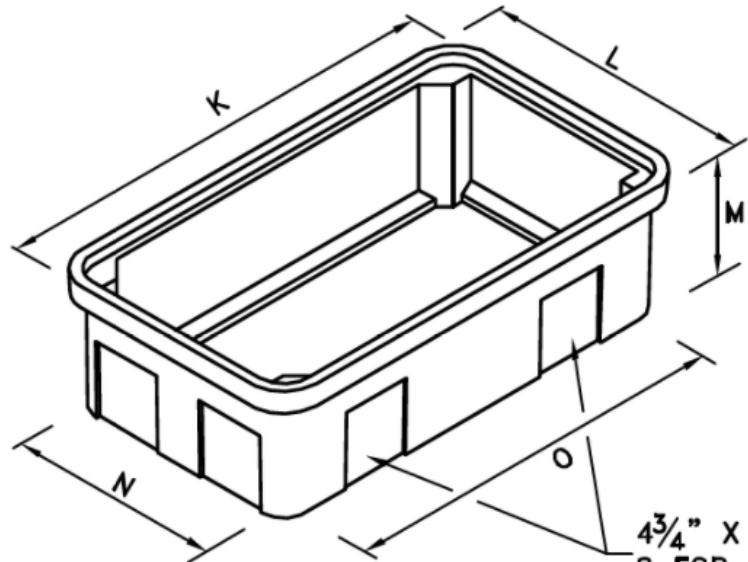
PG STYLE SPLICE BOX
(NO BASE)



BOX & EXTENSION SIDE VIEW
(NO BASE)

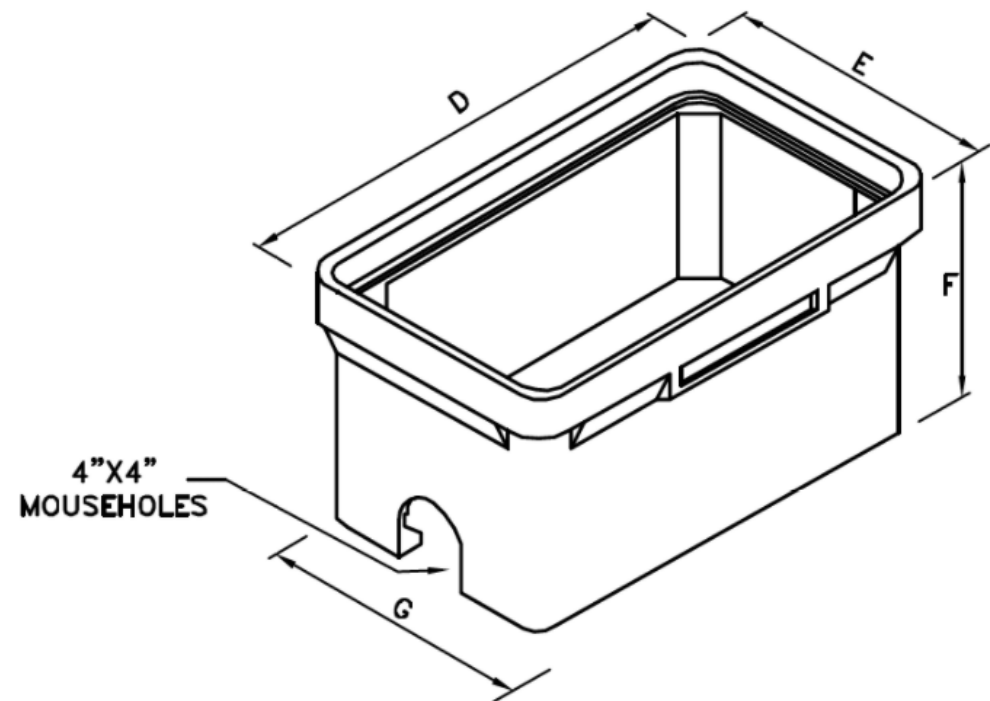


COVER



EXTENSION

NOTE: EXTENSION FOR USE UNDER BOX ONLY.



SPLICE BOX CORNER DETAIL

EXTENSION CORNER DETAIL

SPLICE BOX DIMENSIONS

LOGO FOR COVER SHALL BE "TRAFFIC SIGNAL"
REFER TO THE PLANS AND SPECIFICATIONS
FOR REQUIRED COVER COLORS.

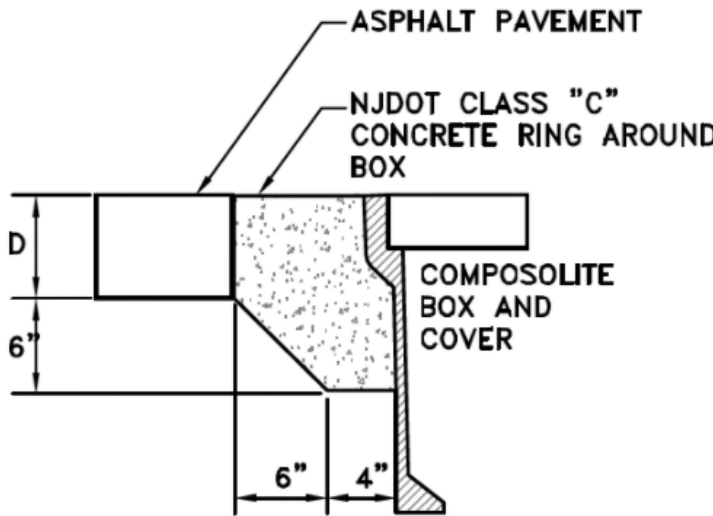
BOXES (STACKABLE)

SIZE	DIMENSION (IN INCHES)									
	A	B	C	D	E	F	G	H	I	J
13"X24"	23 1/4"	13 3/4"	2	25	15 1/2"	18	11 3/4"	21 1/2"	1 1/2"	16
17"X30"	30 1/2"	17 1/2"	2	32 1/2"	19 1/4"	24	15 1/2"	28 1/2"	1 1/2"	22
24"X36"	35 5/8"	24	3	37 3/8"	26	24	22 1/4"	33 3/8"	2	21

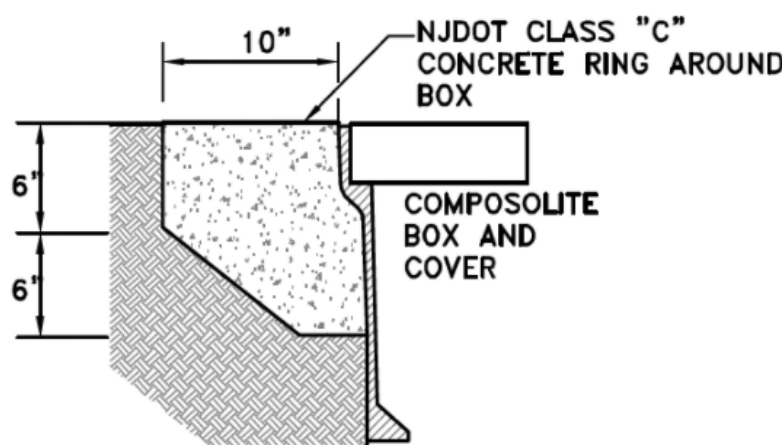
EXTENSIONS

SIZE	DIMENSION (IN INCHES)									
	K	L	M	N	O	P	Q			
13"X24"	23 3/4"	14 1/4"	8 3/4"	11 3/4"	21 1/4"	8	1			
17"X30"	30 1/4"	17 1/8"	8 3/4"	15 3/8"	28 3/8"	8	1			
24"X36"	37 1/8"	25 1/2"	8 3/4"	21 3/4"	33 1/2"	8	1			

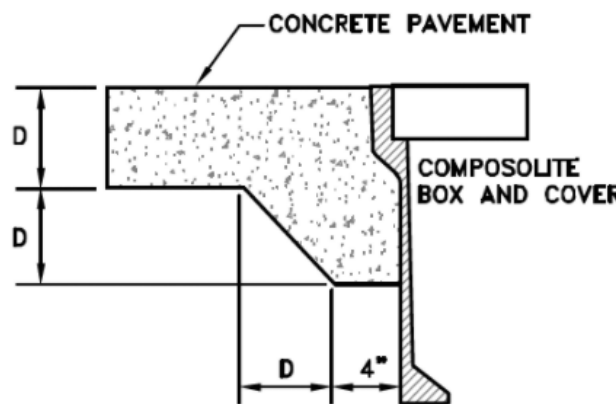
PANEL VAULT & BOX
INSTALLATION PROCEDURE



IN ASPHALT PAVEMENTS



IN COMPACTED EARTH

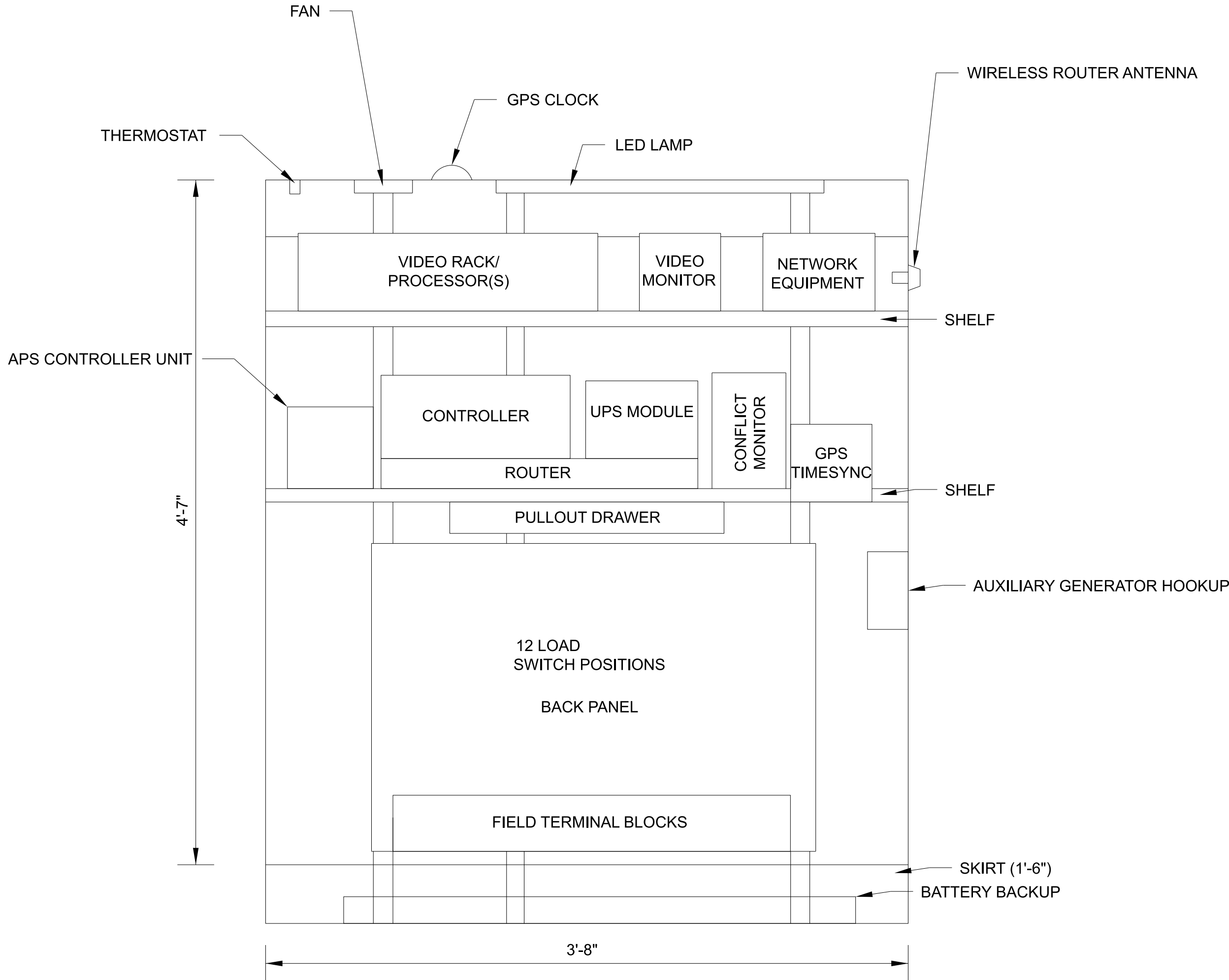


IN CONCRETE PAVEMENTS

ALL BOXES SHALL BE SET FLUSH WITH
SIDEWALK OR GRASS

NOTES:

1. CONCRETE ENCASEMENT TO BE NJDOT CLASS "C" OR BETTER.
2. CONCRETE ENCASEMENT RING DIMENSION, D, TO BE EQUAL TO DESIGN PAVEMENT DEPTH.
3. PAVEMENT AND SUBGRADE TO BE AS SHOWN ON THE ENGINEERING PLANS.
4. QUAAZNE DOES NOT RECOMMEND THE USE OF CONCRETE OR POLYMER CONCRETE BOXES IN HIGH VOLUME TRAFFIC APPLICATIONS.
5. 3/4" GRAVEL OR OTHER SUITABLE MATERIAL TO BE PLACED AT THE BOTTOM OF BOX.
6. ALL COVERS SHALL BE HEAVY DUTY (15 KIPS OVER A 10 IN. SQ. MIN. TEST LOAD).
7. HOLES MADE IN THE SPLICE BOX OR EXTENSION WALLS TO ACCOMMODATE THE VARIOUS SIZE CONDUITS SHALL BE MADE USING A 68 KNOCKOUT PUNCH DRIVER OR MASONRY HOLE SAW.
8. CABLE RACKS AND HOOKS SHALL BE PROVIDED FOR 17"X30" AND 24"X36" SPLICE BOXES (4 REQUIRED).



TRAFFIC SIGNAL CONTROLLER CABINET

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

ELECTRICAL DETAIL

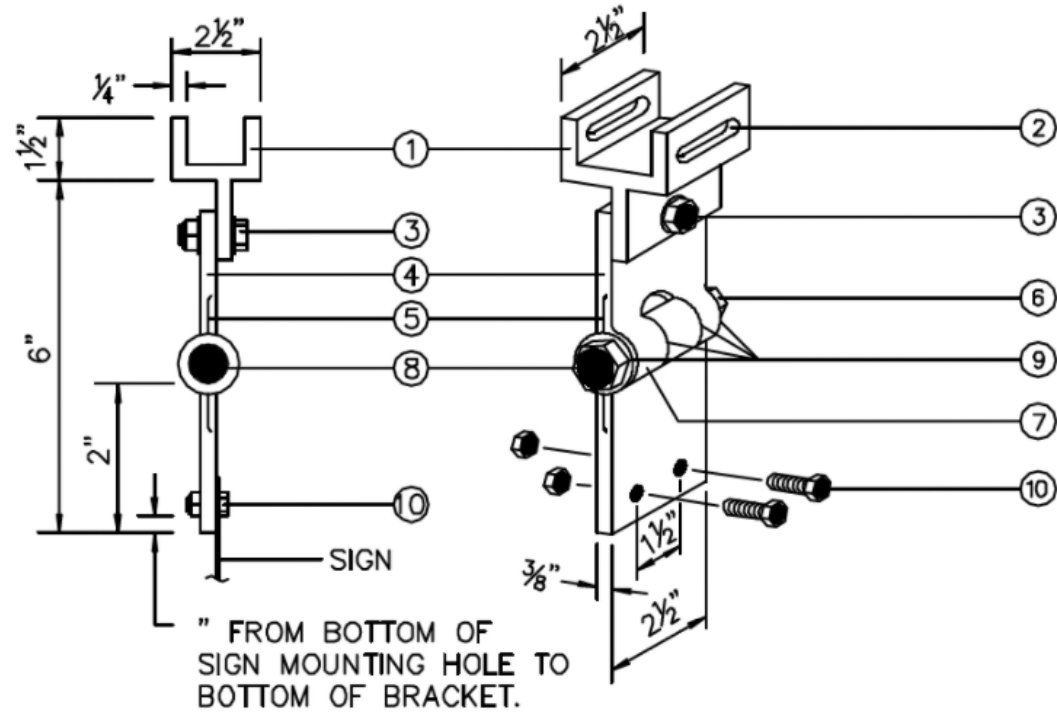
INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

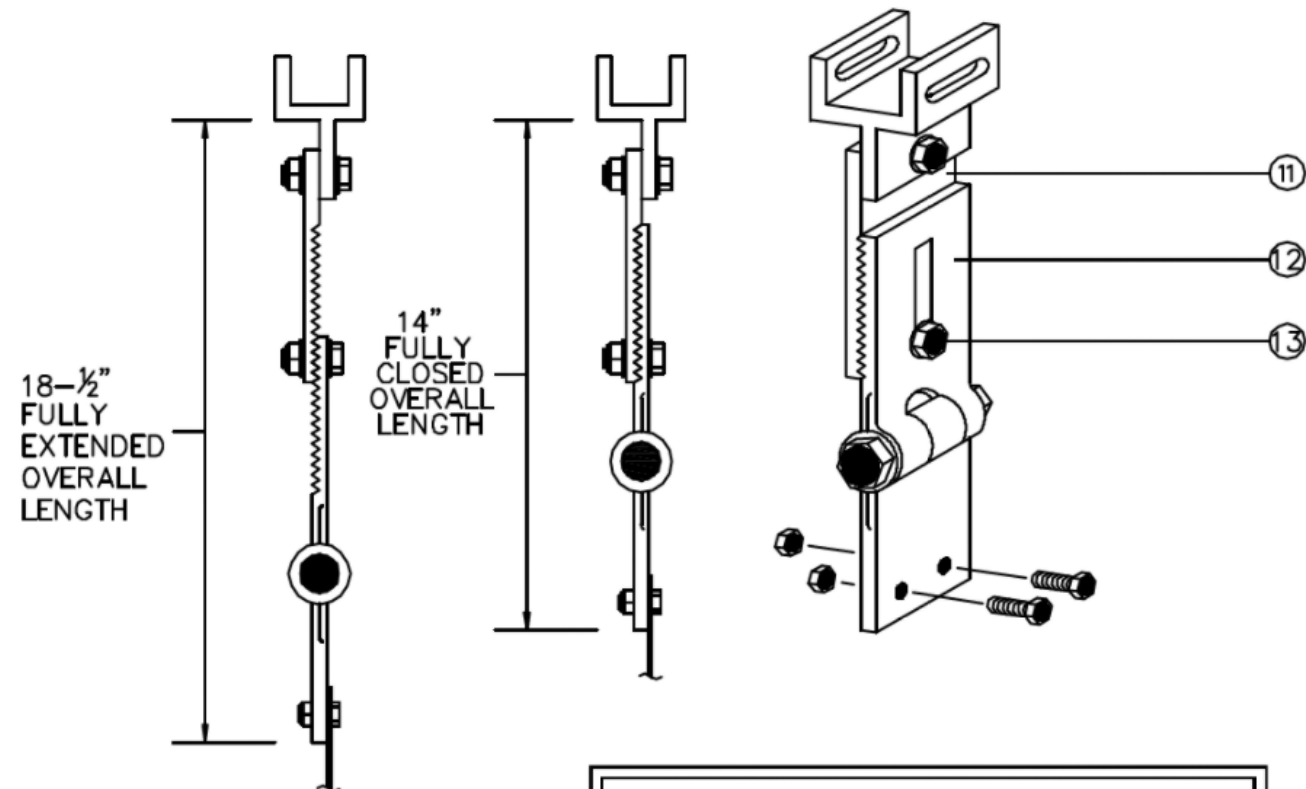
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FIXED LENGTH NON-ADJUSTABLE
SWING SIGN BRACKET



- 1 PIVOTAL UPPER BRACKET.
- 2 1 5/8" x 1/4" SLOT FOR DOUBLE STRAPPING TO MAST ARM. (M2G-34S(HD) .030 x 3/4" HEAVY DUTY STAINLESS STEEL STRAP WITH M2G-34B(HD) BUCKLE RECOMMENDED.)
- 3 1/2"-13 x 1 1/2" STAINLESS STEEL HEX HEAD BOLT WITH STAINLESS STEEL HEX LOCK NUT AND STAINLESS STEEL WASHER (BOTH SIDES). ALLOWS UPPER BRACKET TO PIVOT AND ALIGN WITH MAST ARM.
- 4 6" OVERALL DROP WITH FIXED LENGTH SIGN BRACKET.
- 5 STAINLESS STEEL DAMPENER SPRING (REMOVABLE).
- 6 STAINLESS STEEL HEX LOCK NUT WITH 1/8" STAINLESS STEEL WASHER.
- 7 1" O.D. AXLE HOUSING.
- 8 1/2"-13 x 4" STAINLESS STEEL HEX HEAD BOLT WITH 1/8" STAINLESS WASHER.
- 9 OILITE BUSHING.
- 10 SIGN MOUNTING SETS, CONSISTING OF TWO EACH 3/16" - 18 x 1" STAINLESS STEEL HEX HEAD BOLT WITH STAINLESS STEEL HEX LOCK NUT. TWO HOLES ON 1 1/2" CENTERS PROVIDE POSITIVE LOCK SIGN MOUNTING TO BRACKET.

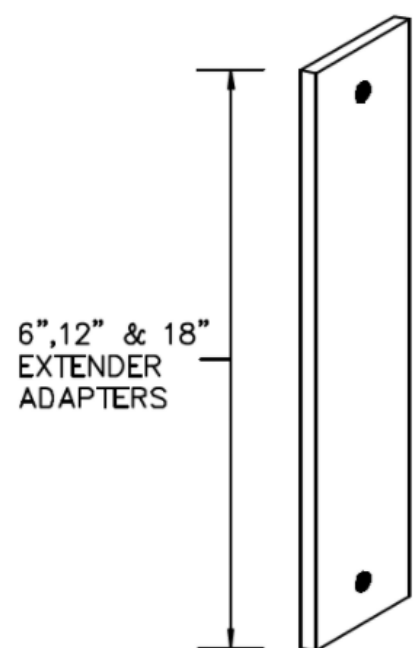
ADJUSTABLE LENGTH
SWING SIGN BRACKET



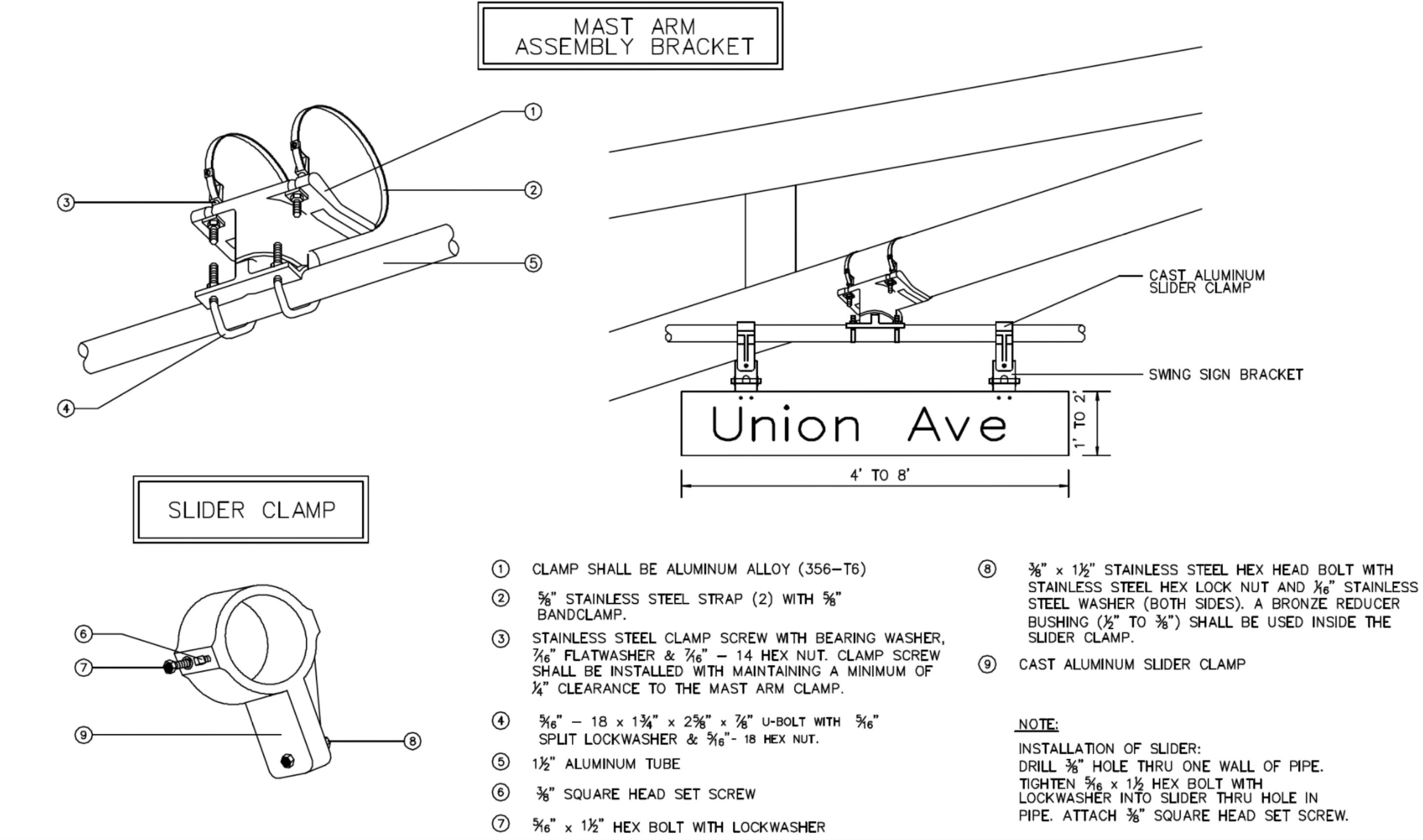
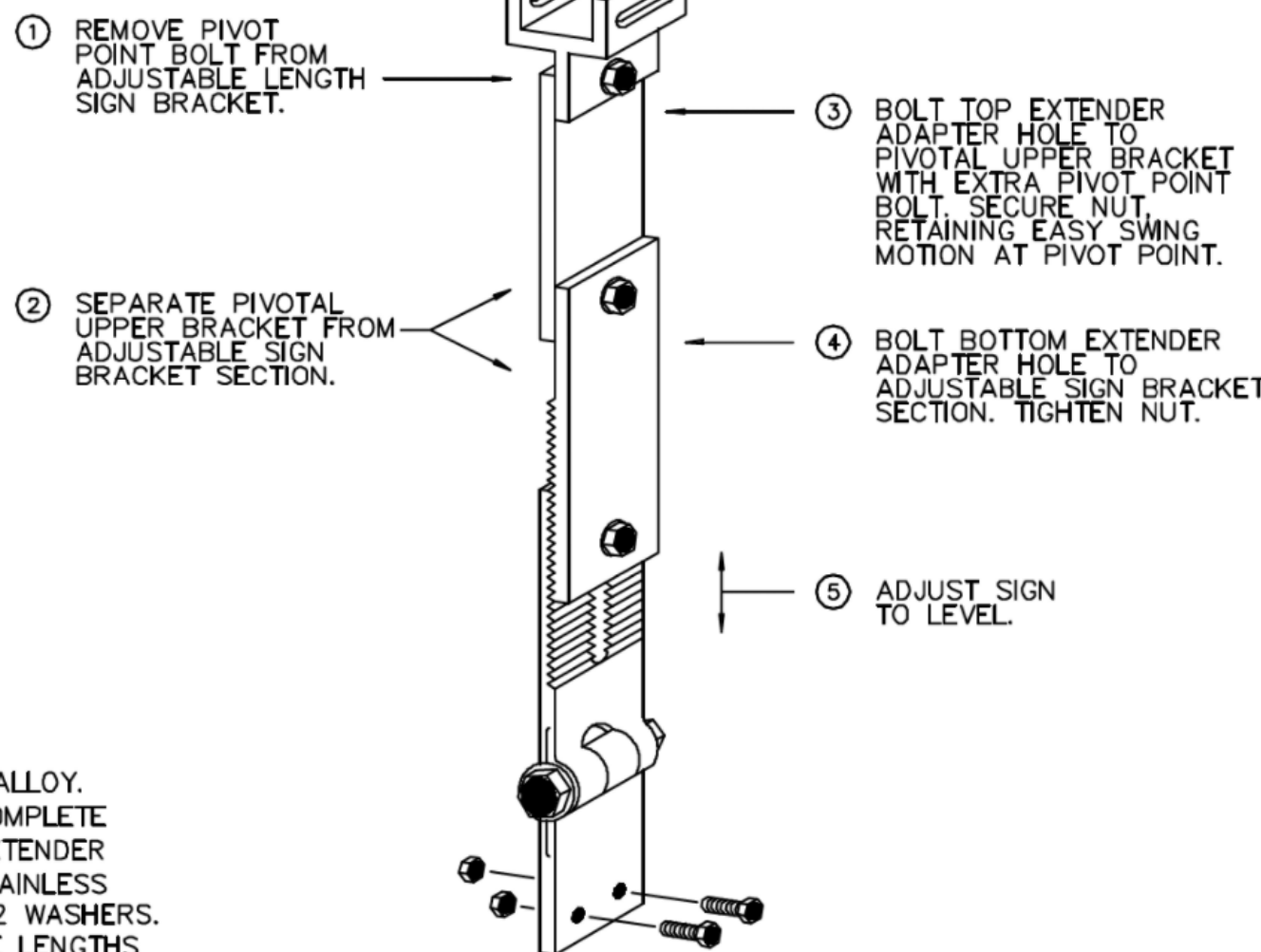
- 11 8 1/4" OVERALL LENGTH UPPER ADJUSTABLE SIGN BRACKET SECTION.
- 12 9" OVERALL LENGTH LOWER ADJUSTABLE SIGN BRACKET SECTION, INCLUDING AXLE HOUSING (8" OVERALL LENGTH TO TOP OF AXLE HOUSING).
- 13 1/2"-13 x 1 1/2" STAINLESS STEEL HEX BOLT WITH STAINLESS STEEL HEX LOCK NUT AND STEEL WASHERS (BOTH SIDES). LOOSEN LOCK NUT, ADJUST BRACKET TEETH TO LEVEL SIGN.

EXTENDER ADAPTERS

FOR ADJUSTABLE LENGTH SWING SIGN BRACKET.
EXTENDS BRACKET TO LEVEL SIGN.
FITS ANY DEGREE OF MAST ARM RISE.

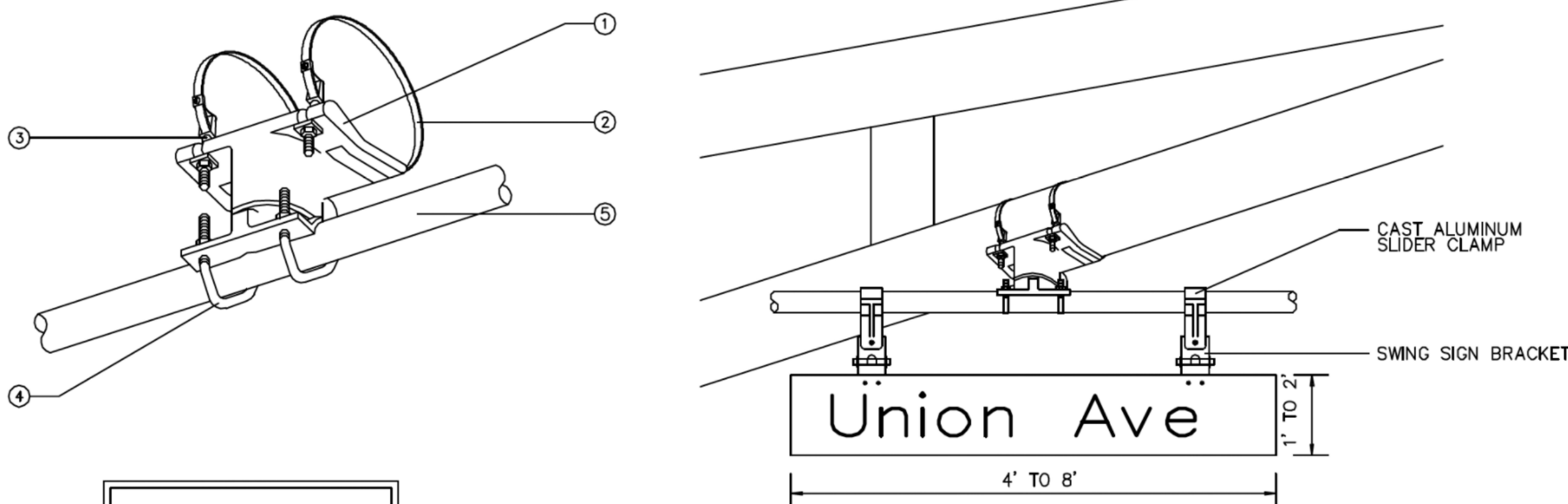


EXTENDER ADAPTERS ARE ALL ALUMINUM 6061T6 ALLOY.
3/8" THICK x 2 1/2" WIDE BAR x VARIABLE LENGTH COMPLETE
WITH ONE HOLE EACH END FOR 1/2" BOLT. EACH EXTENDER
BAR INCLUDES ONE PIVOT POINT 1/2"- 13 x 1 1/2" STAINLESS
STEEL HEX HEAD BOLT WITH HEX LOCK NUT AND 2 WASHERS.
(EXTENDER ADAPTERS ARE AVAILABLE IN VARIABLE LENGTHS
ON REQUEST.)



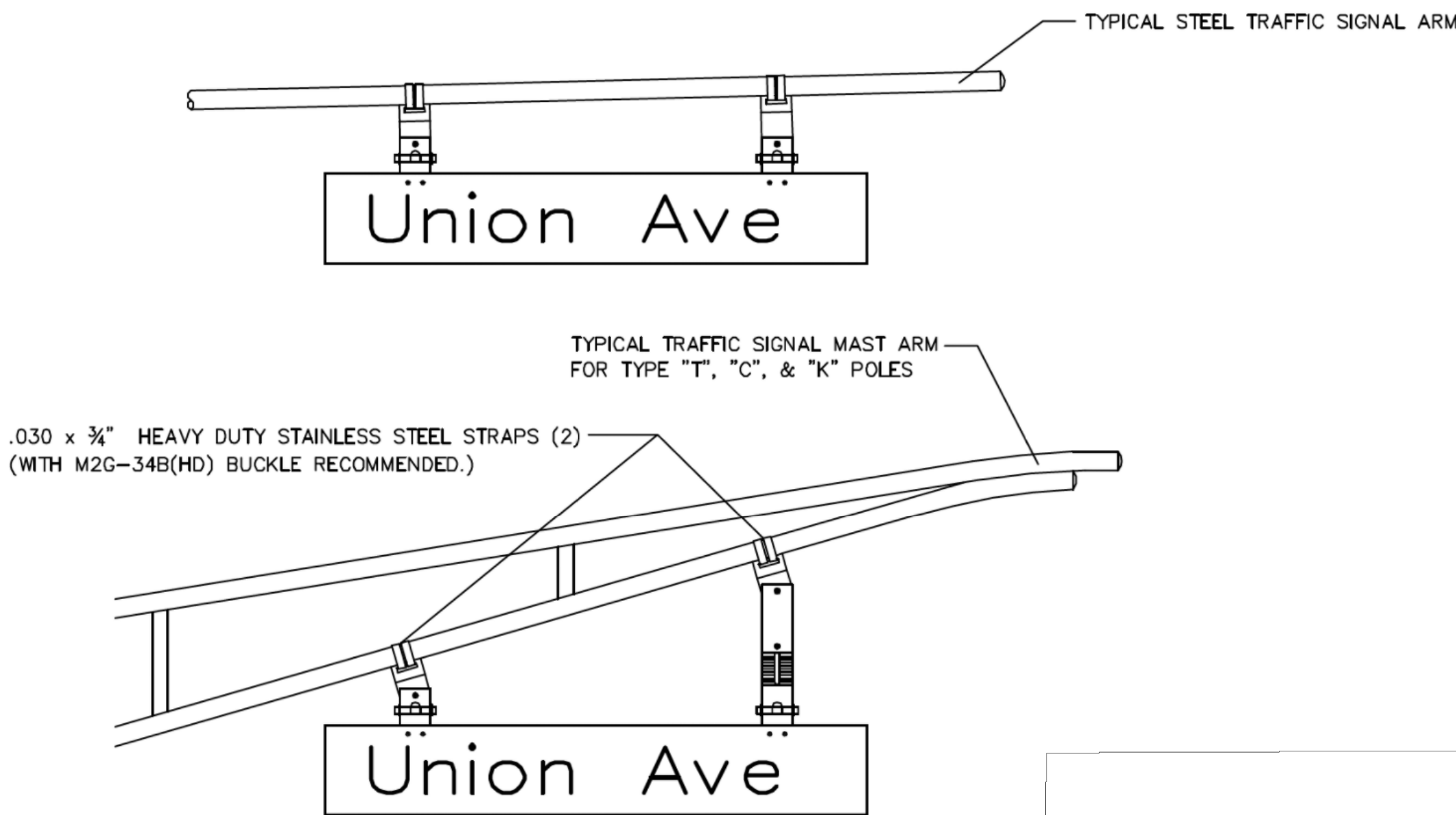
SLIDER CLAMP

MAST ARM
ASSEMBLY BRACKET



- 1 CLAMP SHALL BE ALUMINUM ALLOY (356-T6)
- 2 5/8" STAINLESS STEEL STRAP (2) WITH 5/8" BANDCLAMP.
- 3 STAINLESS STEEL CLAMP SCREW WITH BEARING WASHER, 7/16" FLATWASHER & 7/16" - 14 HEX NUT. CLAMP SCREW SHALL BE INSTALLED WITH MAINTAINING A MINIMUM OF 1/4" CLEARANCE TO THE MAST ARM CLAMP.
- 4 3/16" - 18 x 1 3/4" x 2 3/8" x 7/8" U-BOLT WITH 3/16" SPLIT LOCKWASHER & 3/16"- 18 HEX NUT.
- 5 1 1/2" ALUMINUM TUBE
- 6 3/8" SQUARE HEAD SET SCREW
- 7 3/16" x 1 1/2" HEX BOLT WITH LOCKWASHER
- 8 3/8" x 1 1/2" STAINLESS STEEL HEX HEAD BOLT WITH STAINLESS STEEL HEX LOCK NUT AND 1/8" STAINLESS STEEL WASHER (BOTH SIDES). A BRONZE REDUCER BUSHING (1/2" TO 3/8") SHALL BE USED INSIDE THE SLIDER CLAMP.
- 9 CAST ALUMINUM SLIDER CLAMP

NOTE:
INSTALLATION OF SLIDER:
DRILL 3/8" HOLE THRU ONE WALL OF PIPE.
TIGHTEN 3/8" x 1 1/2" HEX BOLT WITH
LOCKWASHER INTO SLIDER THRU HOLE IN
PIPE. ATTACH 3/8" SQUARE HEAD SET SCREW.

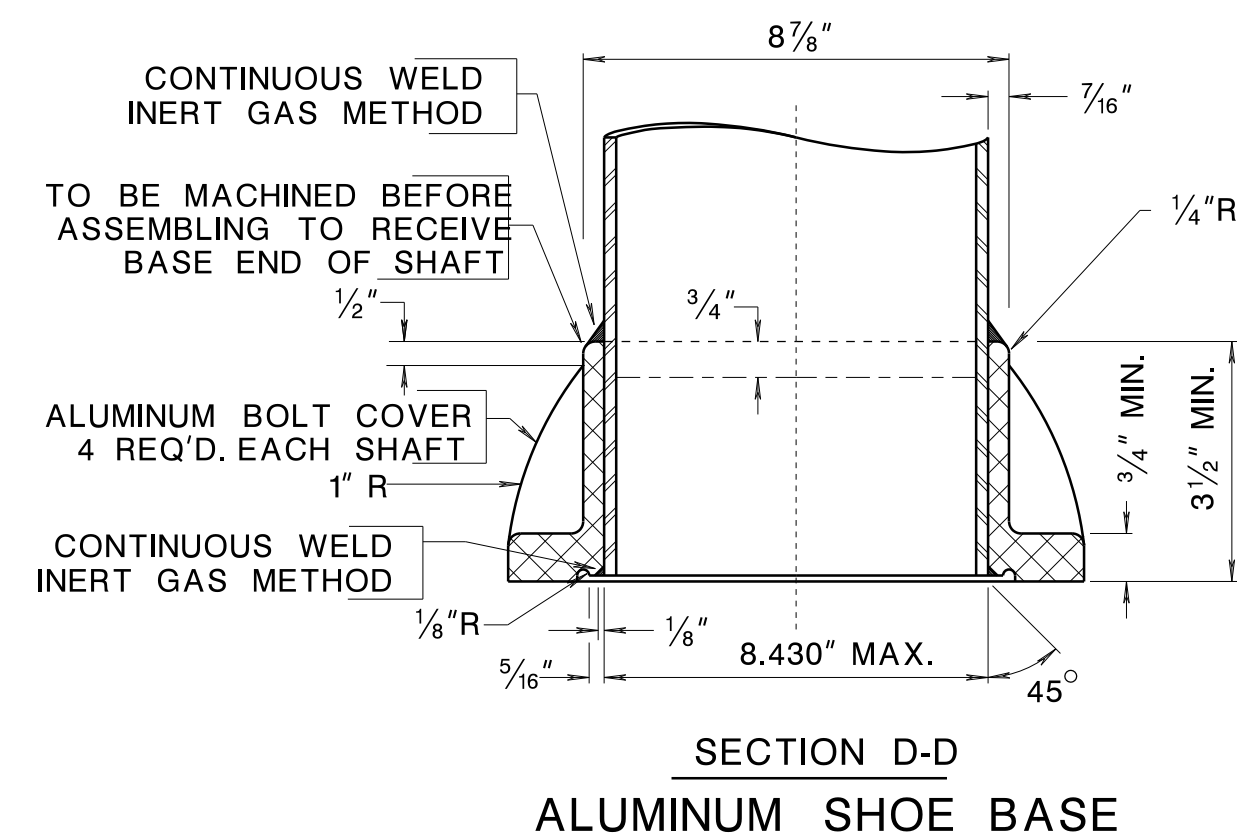
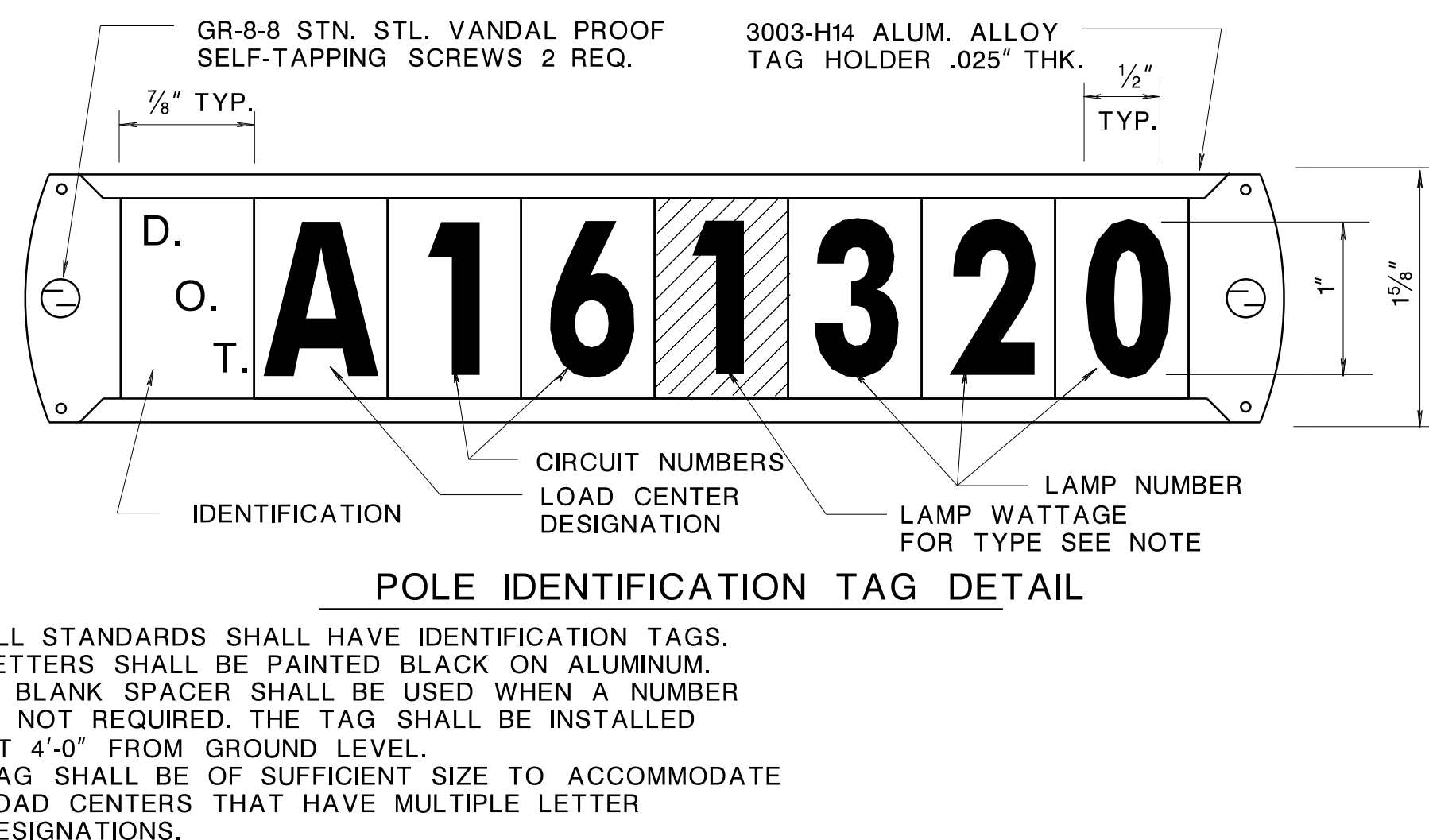
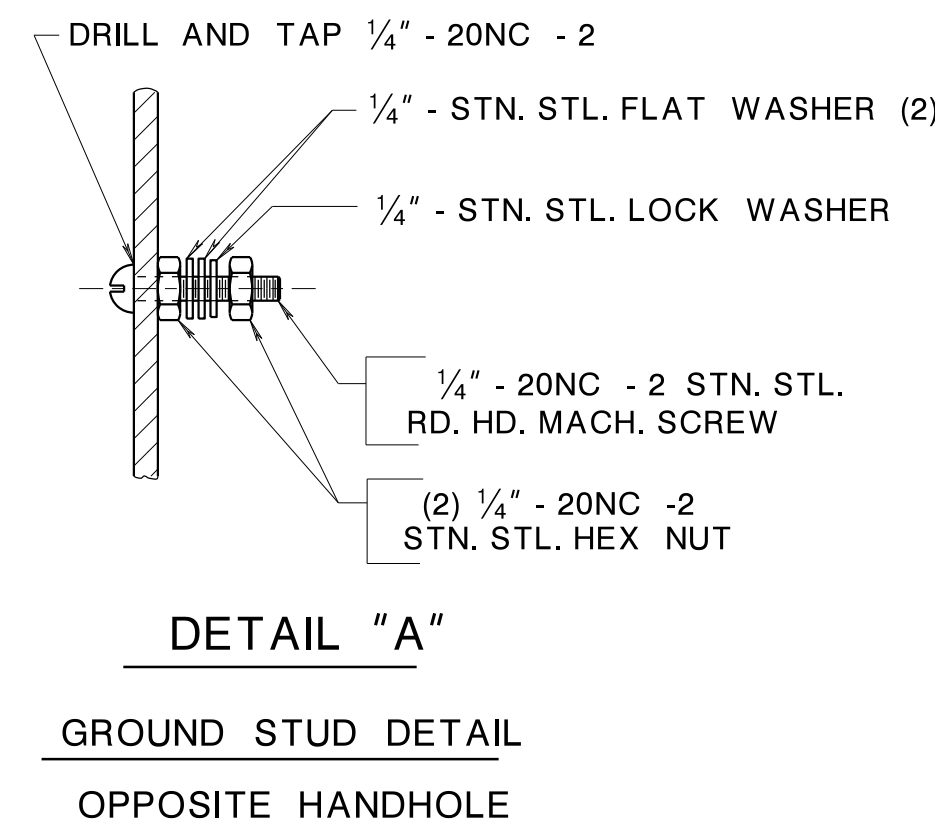
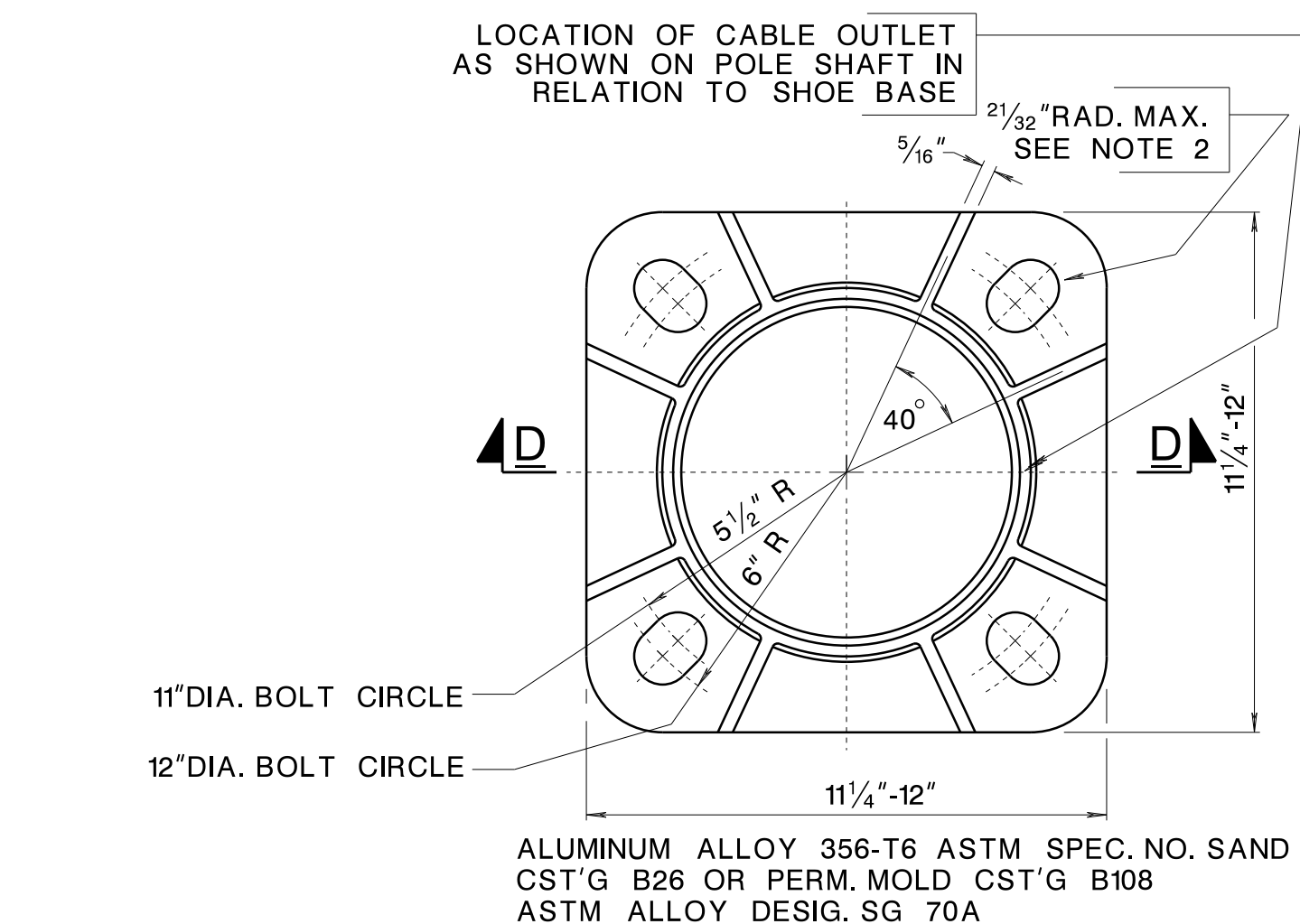


COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
ELECTRICAL DETAIL

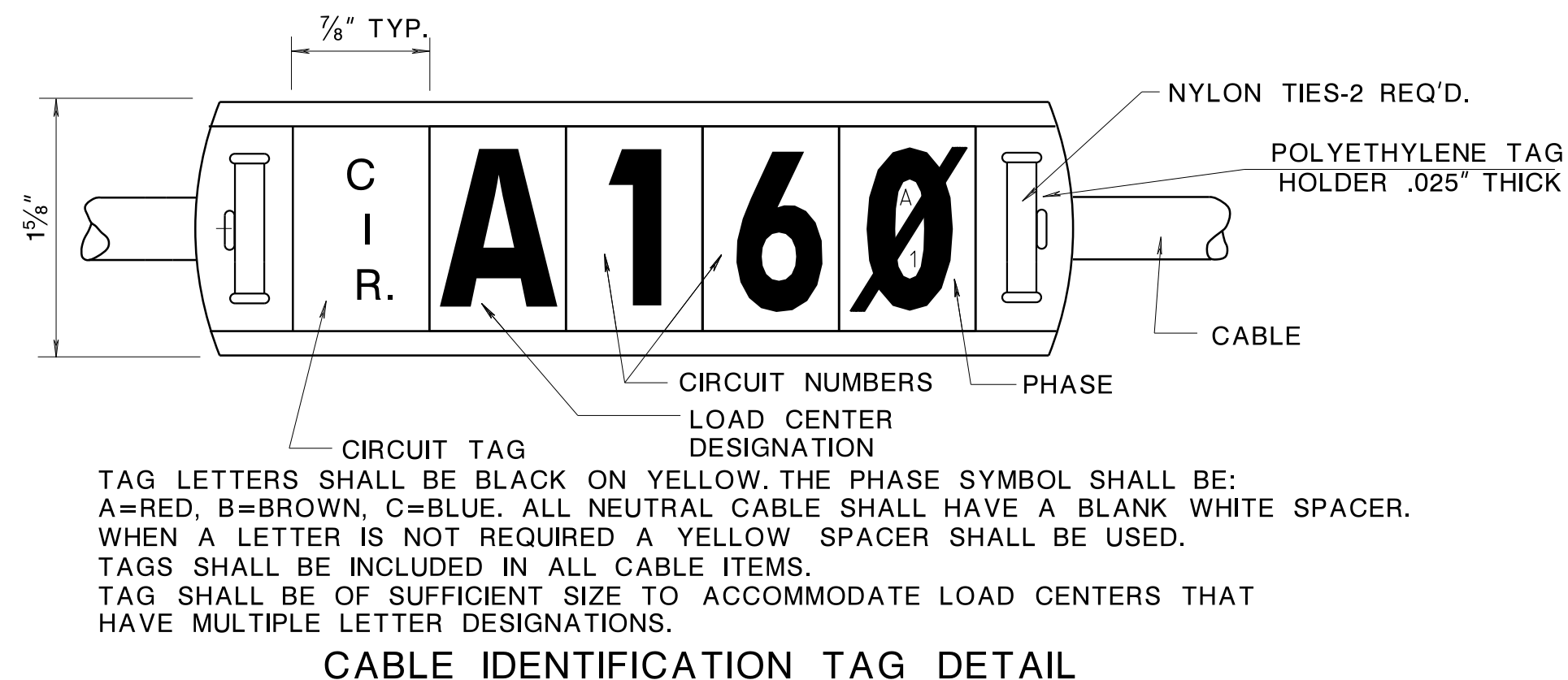
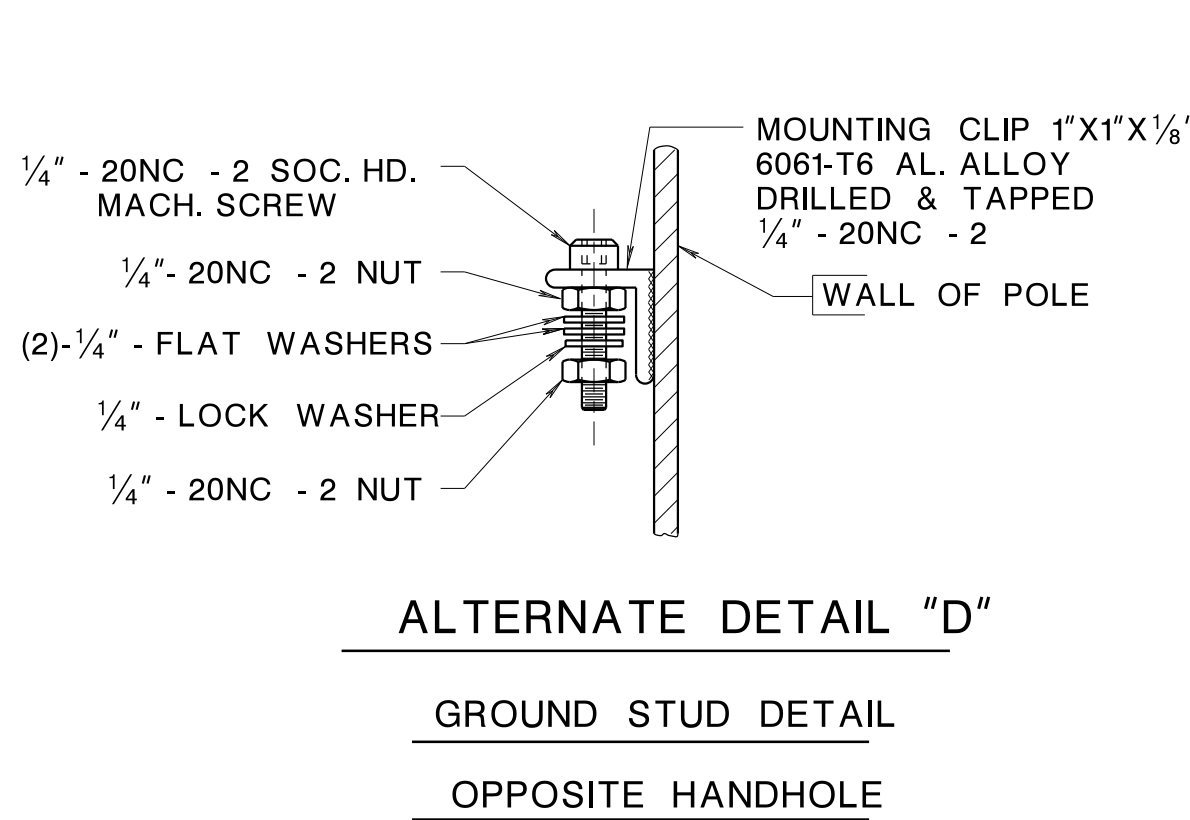
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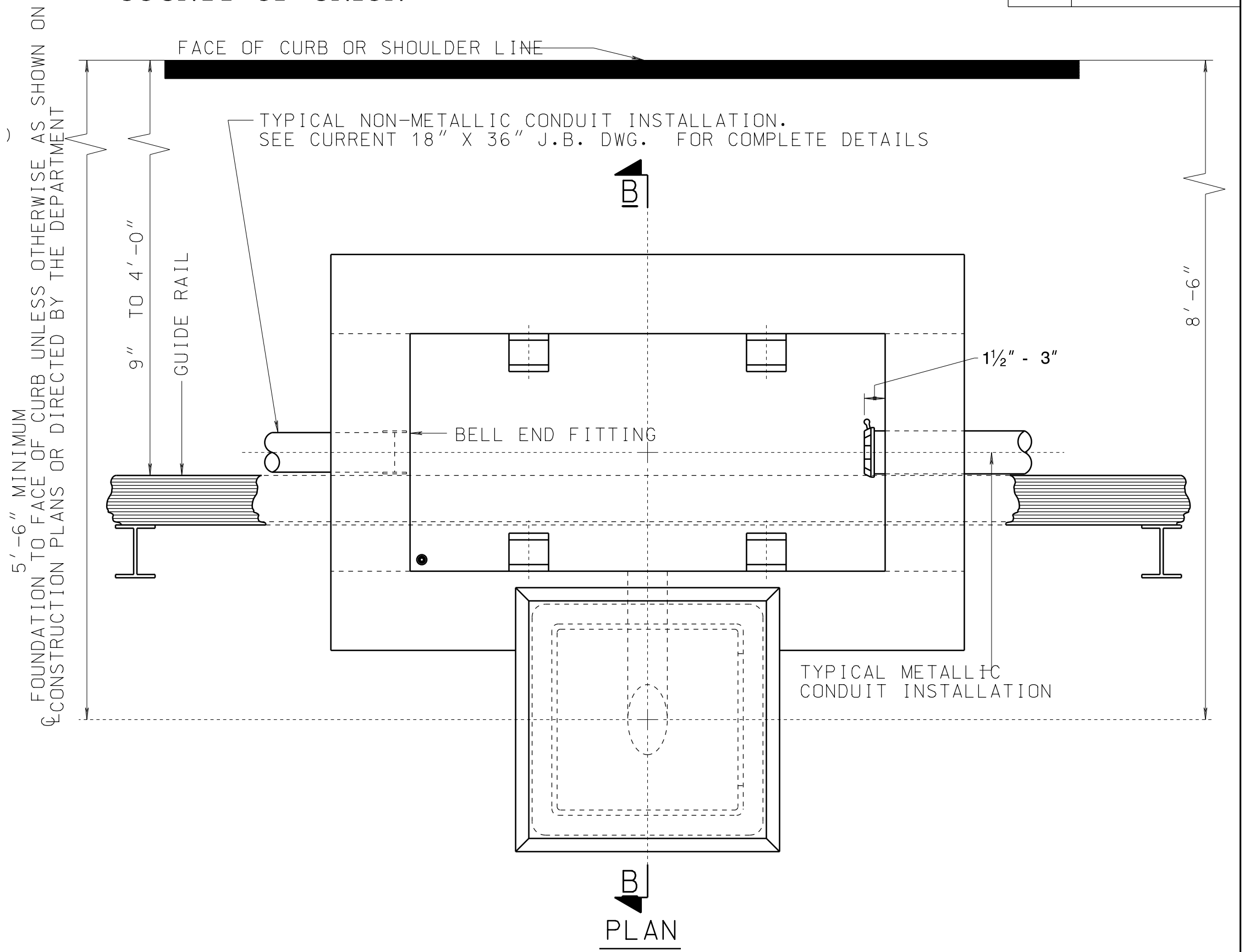
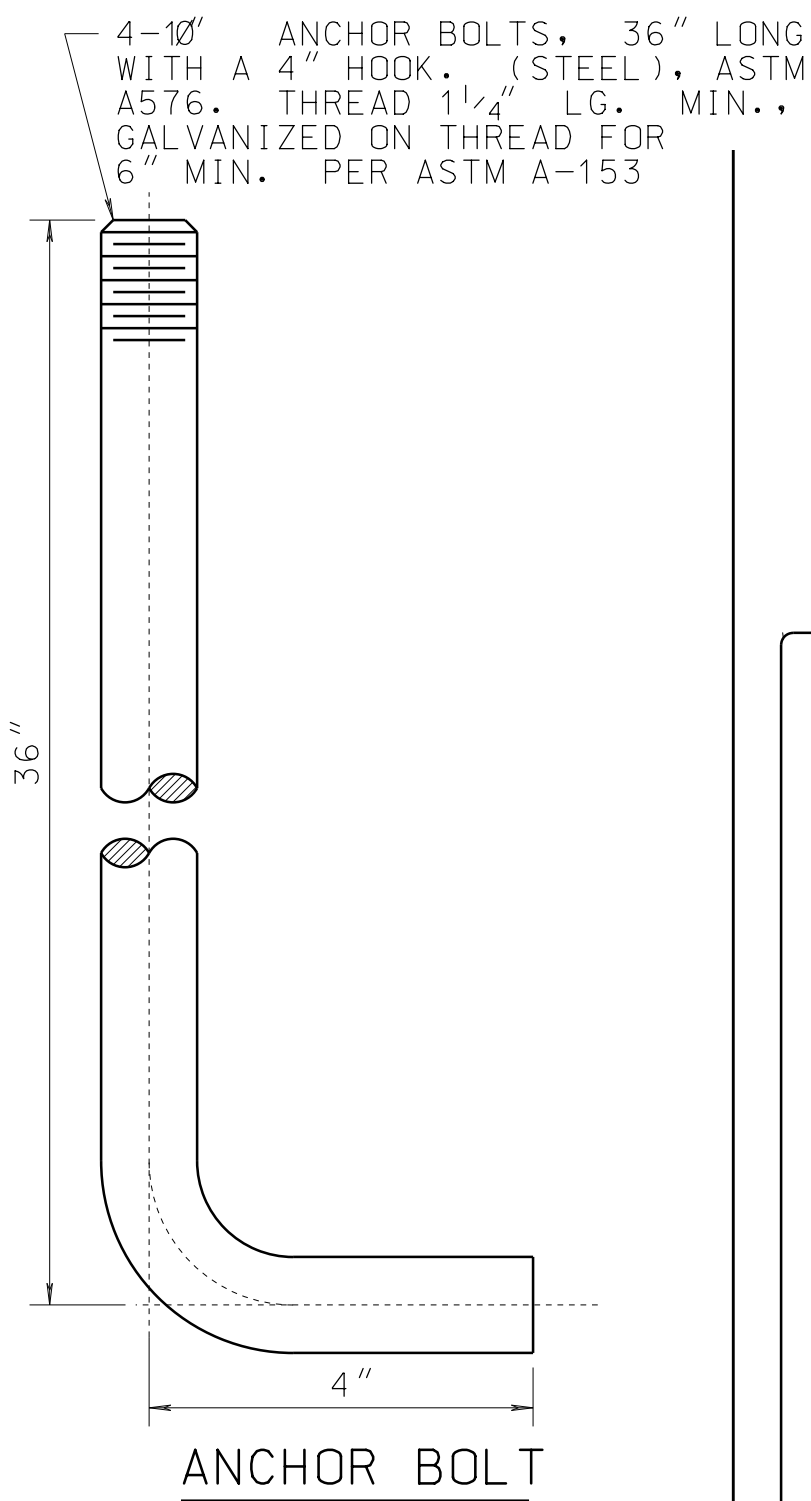


SCHEDULE 1			
LIGHTING STANDARDS		MAX. LUMINAIRE SIZE	
TAPER	SHAFT DIMENSIONS		PROJ. AREA SQ. FT.
	MIN. WALL THICKNESS	LENGTH	
8"x6"	.188"	22'	75# 3.2
8"x6"	.188"	22'	75# 3.2
8"x6"	.188"	22'	75# 3.2
8"x6"	.250"	37'	75# 3.2
8"x6"	.250"	37'	75# 3.2
8"x6"	.250"	37'	75# 3.2
8"x6"	.188"	22'	75# 3.2
8"x6"	.188"	22'	75# 3.2
8"x6"	.250"	22'	75# 3.2
8"x6"	.250"	37'	74# 3.2
8"x6"	.250"	37'	74# 3.2
8"x6"	.188"	22'	75# 3.2
8"x6"	.188"	22'	75# 3.2



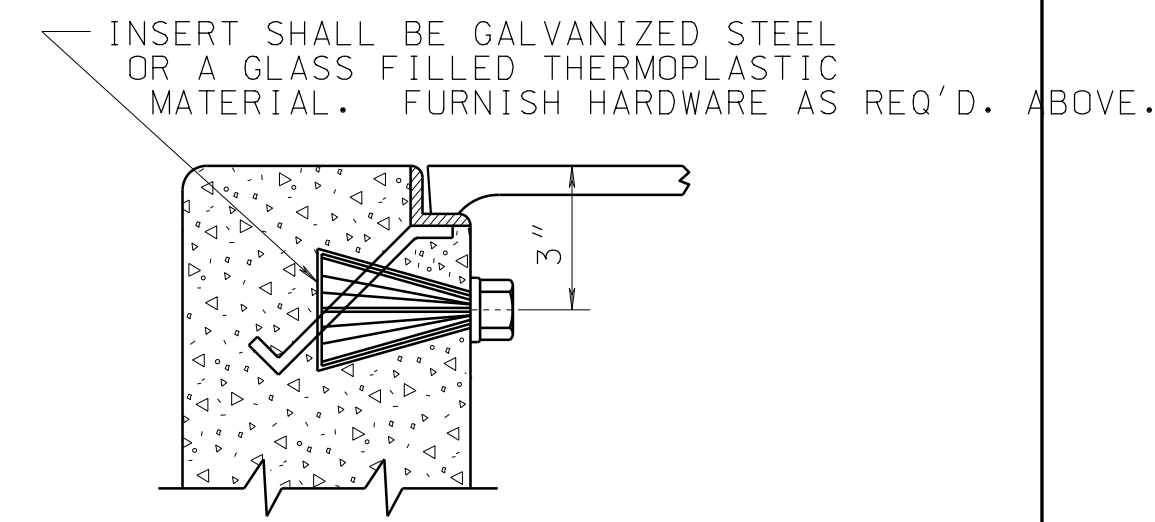
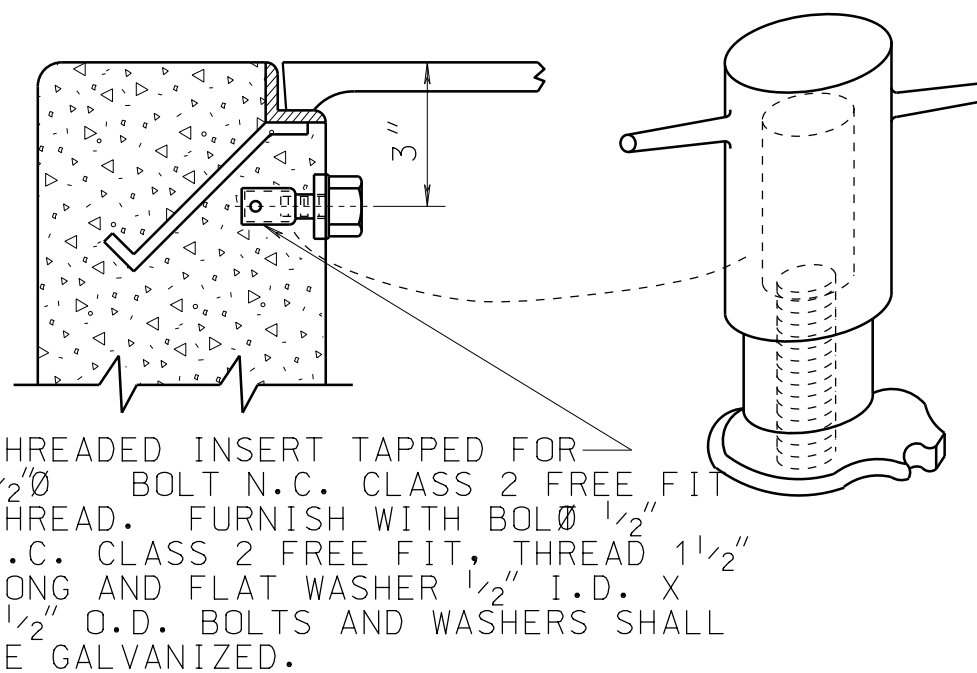
1. HOLE SHALL BE OF SUFFICIENT DIAMETER TO ACCEPT 1" DIAMETER BOLTS.
2. CERTIFICATIONS SHALL BE FURNISHED THAT ALUMINUM ALLOY AND TEMPER SHOWN MEET REQUIREMENTS AS SET FORTH BELOW OR AS OTHERWISE INDICATED ON DRAWING. ALUMINUM CASTINGS PERMANENT OR SAND MOLD FOR CLAMPS AND SHOE BASE TRADE DESIGNATION 356-T6. ALUMINUM EXTRUSIONS FOR CLAMPS OR MAST ARM STRUT: CURRENT ASTM SPECIFICATION B-221 ALLOY 6005-T5, 6061-T6 OR 6063-T6. THE HARDWARE SUPPLIED SHALL BE : 8-1/2"-13NC HARDWARE GRADE ASTM A193 B8 STAINLESS STEEL WITH 16 STAINLESS STEEL FLAT WASHERS AND 8 STAINLESS STEEL LOCK WASHERS.
3. FURNISH WITH EACH STANDARD:
 - 4- 1"-8NC x 3 1/2" LONG HEX HEAD BOLTS
ASTM A-193 GRADE B-8, THREADS
CLASS 2 FREE FIT, STAINLESS STEEL.
 - 4- 2 1/2" O.D. x 1 1/16" I.D. x 3/8" THK. OR 2 3/4" O.D.
x 1 1/16" I.D. x 1/2" THK. LARGE HEAVY
STEEL FLATWASHERS GALVANIZED PER
ASTM B695-85 CLASS 50.
 - 8- 1" DIA. PLAIN WASHERS STAINLESS STEEL.
 - 4- 1" DIA. LOCK WASHERS, STAINLESS STEEL.
 - 4- 1" DIA. HEX NUTS, STAINLESS STEEL.
 - 4- BOLT COVERS ALUMINUM ALLOY WITH
STAINLESS STEEL SCREWS.
4. ALUMINUM LIGHTING STANDARD ASSEMBLY SHALL BE DESIGNED TO ADEQUATELY SUPPORT A LUMINAIRE OF THE WEIGHT AND PROJECTED AREA AS CALLED FOR IN SCHEDULE 1 ON THIS SHEET AND THE UNIT ASSEMBLY SHALL NOT EXCEED THE MAXIMUM REQUIREMENTS FOR VERTICAL DEFLECTION AND ANGLE OF TWIST AS SHOWN IN DETAILS WHEN SUBJECTED TO A 104 M.P.H. WIND.
5. A REINFORCED FLUSH HANDHOLE IS REQUIRED ON ALL SB LIGHTING STANDARDS AND SHALL BE LOCATED 20"-24" FROM BASE OF SHAFT. WHEN LOCATED BEHIND CHAINLINK FENCE, THE HANDHOLE SHALL BE LOCATED ONE FOOT ABOVE THE FENCE, A FIBERGLASS HANDHOLE COVER (MODIFIED FOR UV RESISTANCE) SHALL BE USED.
6. UNTAPERED 8" DIAMETER SECTION OF THE 37 FT. SHAFT WILL BE PERMITTED, BUT UNTAPERED SECTION SHALL NOT EXCEED 25 FT. MAXIMUM FROM BASE OF THE SHAFT.
7. THE LIGHTING STANDARD MUST BE CERTIFIED TO MEET CURRENT AASHTO BREAKAWAY CRITERIA FOR STRUCTURAL SUPPORTS UTILIZING A TYPE APPROVED TRANSFORMER BASE.
8. DESIGN AND MANUFACTURE ACCORDING TO THE 2001 AASHTO SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS. UTILIZE APPENDIX C OF THE SPECIFICATIONS FOR IDENTIFICATION OF LOADING CRITERIA. DESIGN WIND SPEED IS 80 MPH. FOR FATIGUE IS WAVED.
9. OPENING SHALL HAVE A MINIMUM DIAMETER OF 6". THE GEOMETRY SHALL BE DETERMINED BY THE MANUFACTURER.
10. ALL LIGHTING STANDARDS, OF A PARTICULAR TYPE, SHALL BE IDENTICAL IN ALL ASPECTS.
11. ALL DIMENSIONS OF CASTINGS SHALL BE +1/32".
12. THE MANUFACTURER SHALL SUPPLY ALL OTHER HARDWARE WHICH HE DEEMS NECESSARY TO INSTALL THE STANDARD ON THE BASE AS WELL AS INSTRUCTION FOR INSTALLATION.
13. LED LIGHTS SHALL BE 105W TYPE III WITH SEMI-CUT
14. ALL EXTERIOR ABOVE-GROUND EQUIPMENT SHALL BE POWDER-COATED BLACK.

COUNTY OF UNION



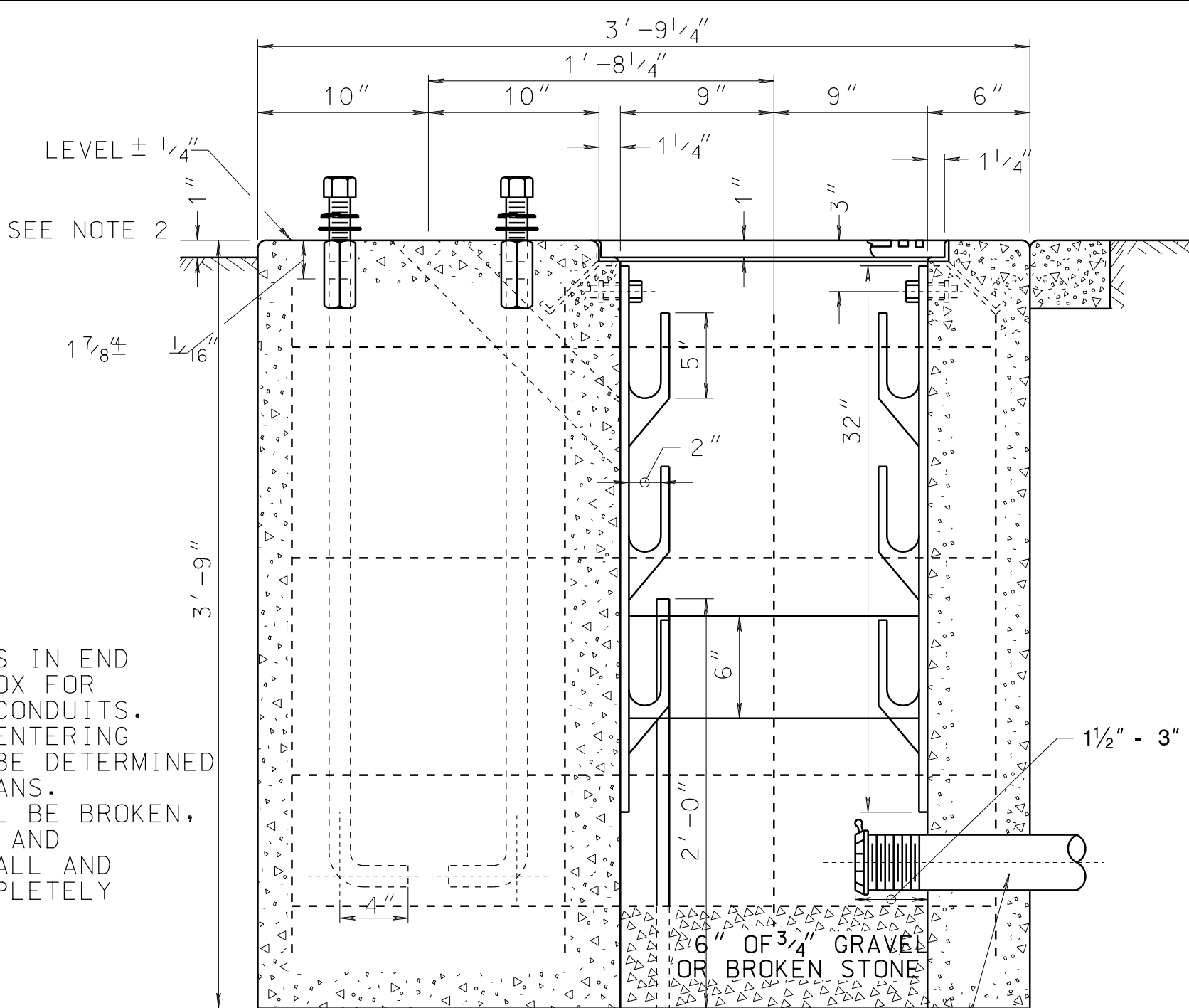
NOTES:

- 1.) AREA. DEPARTMENT MAY REQUIRE TOP OF JUNCTION BOX TO BE INCLINED IN ORDER TO CONFORM WITH FIELD CONDITIONS. JUNCTION BOX SHALL BE SET AT FINISH GRADE.
- 2.) JUNCTION BOX FOUNDATION CONSTRUCTED IN DIRT OR GRASS AREAS SHALL MEET THE CRITERIA AS PER DETAIL "A".
- 3.) CABLE RACKS FURNISHED AND INSTALLED AS INDICATED.
- 4.)
HAVE A FITTING TO PREVENT ENTRY OF FOREIGN MATTER PRIOR TO INSTALLATION OF WIRING.
- 5.) AND INSTALLED IN ALL CONDUITS. SEE SPECIFICATIONS.
- 6.) APPROVED BY THE DEPARTMENT. A 2" SEPARATION SHALL BE MAINTAINED BETWEEN ADJACENT WALLS, CONDUITS, AND CABLE RACK LOCATIONS.
- 7.)
IN JUNCTION BOX.
- 8.) ALL UNUSED CONDUITS SHALL BE PLUGGED OR CAPPED.
- 9.) TERMINAL ENDS OF ALL METALLIC CONDUIT SHALL BE THREADED.
- 10.) STANDARDS, 1" MINIMUM LONG BOLTS SHALL BE INSTALLED WITH GREASE.
- 11.)
FOUNDATION PORTION BEHIND GUIDE RAIL.



1. ANCHOR BOLTS TO BE SET $1\frac{1}{8}"$ $\frac{1}{16}"$ INTO COUPLINGS SO THAT CAP SCREWS WHEN TIGHTENED, SECURING POLE BASE TO FOUNDATION, WILL NOT BUTT AGAINST TOP OF ANCHOR BOLTS.

DETAIL OF ANCHOR BOLTS



SECTION A-A

-ADDITIONAL OPENINGS SHALL BE PROVIDED AT
APPROVED ELEVATIONS FOR UNDER ROADWAY
CONDUITS ENTERING JUNCTION BOX TYPICAL.

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SOIL EROSION AND SEDIMENT CONTROL NOTES
SOMERSET- UNION CONSERVATION DISTRICT

1.

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES,OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO NJ STATE STANDARDS.
3.

PERMANENT VEGETATION SHALL BE SEEDDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NJ STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, 7TH EDITION LAST REVISED JANUARY 2017.
5.

A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT, THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OR PRELIMINARY GRADING.
6.

IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING ALL CRITICAL AREAS SUBJECT TO EROSION (I.E.: STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE, ACCORDING TO THE NJ STATE STANDARDS.
7.

ANY STEEP SLOPES RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED DAILY, AS THE INSTALLATION PROCEEDS (I.E.: SLOPES GREATER THAN 3:1)
8.

TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 50"x30"x6" PAD OF 1 1/2" or 2" STONE, AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE.
9.

THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED IN WRITING 48 HOURS IN ADVANCE OF ANY LAND DISTURBING ACTIVITY.
10.

AT THE TIME WHEN THE SITE PREPARATION FOR PERMANET VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED. TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFORM APPLICATION TO A DEPTH OF 5 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES.
11.

IN THAT NJSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY. N THAT NJSA 4:24-39 ET SEQ., REQUIRES THAT NO CERTIFICATE OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH FOR PERMANENT MEASURES, ALL SITE WORK FOR SITE PLANS AND ALL WORK AROUND INDIVIDUAL LOTS IN SUBDIVISIONS, WILL HAVE TO BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.
12.

CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
13.

ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLAN WILL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO THE DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NJ STATE SOIL EROSION& SEDIMENT CONTROL STANDARDS.
14.

THE SOMERSET-UNION SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED OF ANY CHANGES IN OWNERSHIP.
15.

MULCHING TO THE NJ STANDARDS IS REQUIRED FOR OBTAINING A CONDITIONAL REPORT OF COMPLIANCE. CONDITIONALS ARE ONLY ISSUED WHEN THE SEASON PROHIBITS SEEDING.
16.

CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ADJACENT ROADS CLEAN DURING LIFE OF CONSTRUCTION PROJECT.
17.

THE DEVELOPER SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF ONGOING CONSTRUCTION AT THE REQUEST OF THE SOMERSET-UNION SOIL CONSERVATION DISTRICT.
18.

HYDROSEEDING IS A TWO-STEP PROCESS. THE FIRST STEP INCLUDES SEED, FERTILIZER, LIME, ETC., ALONG WITH MINIMAL AMOUNTS OF MULCH TO PROMOTE CONSISTENCY, GOOD SEED TO SOIL CONTACT, AND GIVE A VISUAL INDICATION OF COVERAGE UPON COMPLETION OF SEEDING OPERATION. HYDRO MULCH SHOULD BE APPLIED AT A RATE OF 1600 LBS. PER ACRE IN SECOND STEP. THE USE OF HYDRO-MULCH, AS OPPOSED TO STRAW, IS LIMITED TO OPTIMUM SEEDING DATES AS LISTED IN THE NJ STANDARDS.
19.

ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL AND SECTION 158 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
20.

ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES OR CONSTRUCTION OPERATION IN THEIR PROPER SEQUENCE. AREAS OF PROPOSED CONSTRUCTION SHALL BE CLEARED ONLY AS REQUIRED. CAUTION (SNOW) AND SILT FENCES ARE TO BE INSTALLED PRIOR TO ANY GRUBBING, CLEARING, GRADING OR OTHER EARTH DISTURBING OR CONSTRUCTION OPERATION. ALL INLETS SHALL BE PROTECTED WITH AN INLET FILTER IMMEDIATELY AFTER INITIAL SITE DISTURBANCE; A CONSTRUCTION DRIVEWAY SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH SECTION 158 OF THE STANDARD SPECIFICATIONS. SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND INSPECTED ON A REGULAR BASIS UNTIL PERMANENT PROTECTION IS ESTABLISHED.
21.

DURING CONSTRUCTION, ANY ADDITIONAL CONTROL MEASURES AS DEEMED NECESSARY TO PREVENT EROSION OR CONTROL BEYOND THOSE MEASURES SHOWN ON THE APPROVED PLAN SHALL BE INSTALLED OR EMPLOYED AT THE DIRECTION OF THE ENGINEER. ADDITIONAL STABILIZATION MEASURES SHALL BE REQUIRED IF EROSION OCCURS ALONG THE EDGES OF THE PAVEMENT.
22.

ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN FOURTEEN (14) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT.
23.

AT THE TIME WHEN PREPARING THE SITE FOR PERMANENT VEGETATIVE STABILIZATION INCLUDE PERMANENT GRASS SEEDING AND PROVISION FOR TEMPORARY SEEDING AS NECESSARY. IF THE REMOVAL OR TREATMENT OF THE SOIL DOES NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATIONS WILL HAVE TO BE EMPLOYED.

SOIL EROSION AND SEDIMENT CONTROL NOTES
SOMERSET- UNION CONSERVATION DISTRICT (CONT)

24.

PERMANENT VEGETATION SHALL BE SEEDDED OR SODDED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH SHALL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
25.

ANY CHANGES TO THE CERTIFIED SOIL EROSION AND SEDIMENT CONTROL PLANS SHALL REQUIRE THE SUBMISSION OF REVISED SOIL EROSION AND SEDIMENT CONTROL PLANS TO NJDOT. THE REVISED PLANS MUST MEET ALL CURRENT NJDOT SOIL EROSION AND SEDIMENT CONTROL STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMEDIATING ANY EROSION OR SEDIMENT PROBLEMS THAT ARISE AS A RESULT OF THE ONGOING CONSTRUCTION.
26.

THE CONTRACTOR IS RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORM-WATER OUTFALLS OR OFFSITE AS RESULT OF CONSTRUCTION OF THE PROJECT. DEWATERING SHALL NOT BE DISCHARGED DIRECTLY ONTO ANY WATERWAY.

SEQUENCE OF CONSTRUCTION

STAGE 1-EAST FRONT STREET, EAST AND WEST 7TH STREET (CR 601) AND EAST FRONT STREET AT LELAND AVENUE:

1.

INSTALL SOIL EROISON AND SEDIMENT CONTROL MEASURES TO REMAIN IN PLACE THROUGH DURATION OF CONSTRUCTION.
2.

INSTALL LANE AND SHOULDER CLOSINGS AS NEEDED PER LATEST NJDOT STANDARD DETAILS.
3.

ON-STREET PARKING, WHERE EXISTING, TO BE TEMPORARILY SUSPENDED DURING WORKING HOURS AND AS OTHERWISE NECESSARY TO EFFECTUATE AND COMPLETE CONSTRUCTION.
4.

CONSTRUCTION SHALL ONLY OCCUR ON ONE SIDE OF THE ROADWAY AT ANY PARTICULAR TIME. SHIFT TRAFFIC TO SOUTHBOUND SIDE OF EAST AND WEST SEVENTH STREET AND EAST FRONT STREET TO PERFORM WORK ON THE EASTERLY SIDE OF ROADWAY.
5.

TWO-WAY TWO-LANE TRAFFIC LANES SHALL BE SEPARATED WITH TRAFFIC CONES DURING WORKING HOURS.
6.

APPLY 5" TOPSOIL AND PERMANENT STABILIZATION FOR ALL AREA DISTURBED BEHIND THE NEW CURBS SIDEWALKS.
7.

REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
8.

REMOVE LANE AND SHOULDER CLOSINGS AS NEEDED.

STAGE 2-EAST FRONT STREET, EAST AND WEST 7TH STREET (CR 601) AND EAST FRONT STREET AT LELAND AVENUE:

1.

REPEAT STEPS 1 THROUGH 8 OF STAGE 1 AT THE STAGE 2 LOCATIONS.

STAGE 3-EAST FRONT STREET, EAST AND WEST 7TH STREET (CR 601) AND EAST FRONT STREET AT LELAND AVENUE:

1.

COMPLETE REMAINING MILLING OF SURFACE COURSE. PAVE SURFACE COURSE TO THE LIMITS SHOWN ON THE CONSTRUCTION PLANS. COMPLETE FINAL STRIPING.
2.

INSTALL PROPOSED TRAFFIC SIGNAL
3.

REMOVE SOIL EROSION AND SEDIMENT CONTROL MEASURES
4.

REMOVE LANE AND SHOULDER CLOSING AS NEEDED

TEMPORARY VEGETATIVE COVERAGE FOR SOIL STABILIZATION

1.

SITE PREPARATION
- A.

GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDDED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
- B.

INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- C.

IMMEDIATELY PRIOR TO SEEDING, THE SURFACE SHOULD BE SCARIFIED 6" TO 12" WHERE THERE HAS BEEN SOIL COMPACTION. THIS PRACTICE IS PERMISSIBLE ONLY WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.).
2.

SEEDBED PREPARATION
- A.

APPLY GROUND LIMESTONE AND FERTILIZER ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE. CALCIUM CARBONATE IS THE EQUIVALENT AND STANDARD FOR MEASURING THE ABILITY OF LIMING MATERIALS TO NEUTRALIZE SOIL ACIDITY AND SUPPLY CALCIUM AND MAGNESIUM TO GRASSES AND LEGUMES.
- B.

WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
- C.

INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED IN ACCORDANCE WITH ABOVE.
- D.

SOILS HIGH IN SULFIDES OR HAVING A PH OF 4 OR LESS REFER TO STANDARD FOR MANAGEMENT OF HIGH ACID PRODUCING SOILS.

TEMPORARY VEGETATIVE COVERAGE FOR SOIL STABILIZATION (CONT)

3.

SEEDING
- A.

THE SEED MIXTURE FOR THE NJDOT SHALL BE IN THE TABLE BELOW AND APPLIED AT A RATE OF 100 LBS PER ACRE:

PURITY GRASS SEED MIXTURE	MIN. PURITY (%)	MIN. GERMINATION (%)	Rate
PERENIAL RYEGRASS	95	90	100 lbs/ac
- B.

REFER TO THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, TABLE 7-2 FOR OTHER SEEDING RECOMMENDATIONS. SEED GERMINATION AND SUITABLE GROWTH DENSITY MUST BE ACHIEVED PRIOR TO CERTIFICATION BY THE SOIL CONSERVATION DISTRICT.
- C.

CONVENTIONAL SEEDING. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL OR CULTIPACKER SEEDER. EXCEPT FOR DRILLED, HYDROSEEDDED OR CULTIPACKED SEEDINGS, SEED SHALL BE INCORPORATED INTO THE SOIL, TO A DEPTH OF 14 OR 12 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1#4 INCH DEEPER ON COARSE-TEXTURED SOIL.
6.

HYDROSEEDING IS A BROADCAST SEEDING METHOD USUALLY INVOLVING A TRUCK, OR TRAILER-MOUNTED TANK, WITH AN AGITATION SYSTEM AND HYDRAULIC PUMP FOR MIXING SEED, WATER AND FERTILIZER AND SPRAYING THE MIX ONTO THE PREPARED SEEDBED. MULCH SHALL NOT BE INCLUDED IN THE TANK WITH SEED. SHORT-FIBERED MULCH MAY BE APPLIED WITH A HYDROSEEDER FOLLOWING SEEDING. HYDROSEEDING IS NOT A PREFERRED SEEDING METHOD BECAUSE SEED AND FERTILIZER ARE APPLIED TO THE SURFACE AND NOT INCORPORATED INTO THE SOIL. WHEN POOR SEED TO SOIL CONTACT OCCURS, THERE IS A REDUCED SEED GERMINATION AND GROWTH.
- D.

AFTER SEEDING, FIRING THE SOIL WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDLING EMERGENCE. THIS IS THE PREFERRED METHOD. WHEN PERFORMED ON THE CONTOUR, SHEET EROSION WILL BE MINIMIZED AND WATER CONSERVATION ON SITE WILL BE MAXIMIZED.
4.

MULCHING
- MULCHING IS REQUIRED ON ALL SEEDING. MULCH WILL PROTECT AGAINST EROSION BEFORE GRASS IS ESTABLISHED AND WILL PROMOTE FASTER AND EARLIER ESTABLISHMENT. THE EXISTENCE OF VEGETATION SUFFICIENT TO CONTROL SOIL EROSION SHALL BE DEEMED IN COMPLIANCE WITH THIS MULCHING REQUIREMENT

- A.

STRAW OR HAY. UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, TO BE APPLIED AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER, THE RATE OF APPLICATION IS 3 TONS PER ACRE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MULCH. HAY MULCH IS NOT RECOMMENDED FOR ESTABLISHING FINE TURF OR LAWNS DUE TO THE PRESENCE OF WEED SEED.

APPLICATION - SPREAD MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THAT AT LEAST 95% OF THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.

- B.

ANCHORING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY PED AND TWINE, MULCH NETTINGS, CRIMPER OR LIQUID MULCH-BINDER, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS.

WOOD-FIBER OR PAPER-FIBER MULCH - SHALL BE MADE FROM WOOD, PLANT FIBERS OR PAPER CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS, USED AT THE RATE OF 1,500 POUNDS PER ACRE (OR AS RECOMMENDED BY THE PRODUCT MANUFACTURER) AND MAY BE APPLIED BY A HYDROSEEDER. MULCH SHALL NOT BE MIXED IN THE TANK WITH SEED. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

- C.

PELLETIZED MULCH - COMPRESSED AND EXTRUDED PAPER AND/OR WOOD FIBER PRODUCT, WHICH MAY CONTAIN CO-POLYMERS, TACKIFIERS, FERTILIZERS, AND COLORING AGENTS. THE DRY PELLETS, WHEN APPLIED TO A SEEDDED AREA AND WATERED, FORM A MULCH MAT. PELLETIZED MULCH SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, MULCH MAY BE APPLIED BY HAND OR MECHANICAL SPREADER AT THE RATE OF 60-75 LBS/1,000 SQUARE FEET AND ACTIVATED WITH 0.2 TO 0.4 INCHES OF WATER. THIS MATERIAL HAS BEEN FOUND TO BE BENEFICIAL FOR USE ON SMALL LAWN OR RENOVATION AREAS, SEEDDED AREAS WHERE WEEDSEED FREE MULCH IS DESIRED, OR ON SITES WHERE STRAW MULCH AND TACKIFIER AGENT ARE NOT PRACTICAL OR DESIRABLE.

SE-1
SE-7

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

SOIL EROSION AND SEDIMENT CONTROL NOTES -1-

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

83

USERNAME:Trevor.Malik
 DATE & TIME: 14-SEP-2022 14:56
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PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING. ALL GRADING SHOULD BE DONE IN ACCORDANCE WITH STANDARD FOR LAND GRADING.
 - IMMEDIATELY PRIOR TO SEEDING AND TOPSOIL APPLICATION, THE SUBSOIL SHALL BE EVALUATED FOR COMPACTION IN ACCORDANCE WITH THE STANDARD FOR LAND GRADING.
 - TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING THE SOIL STRUCTURE. A UNIFROM APPLICATION TO A DEPTH OF 6 INCHES (UNSETTLED) IS REQUIRED ON ALL SITES, WHICH INCLUDES 1 INCH OF SCARIFICATION. TOPSOIL SHALL BE AMENDED WITH ORGANIC MATTER, AS NEEDED, IN ACCORDANCE WITH THE STANDARD FOR TOPSOILING.
 - INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE-STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- SEEDBED PREPARATION
 - UNIFORMLY APPLY GROUND LIMESTONE AND FERTILIZER TO TOPSOIL WHICH HAS BEEN SPREAD AND FIRMED, ACCORDING TO SOIL TEST RECOMMENDATIONS SUCH AS OFFERED BY RUTGERS CO-OPERATIVE EXTENSION SOIL SAMPLE MAILERS ARE AVAILABLE FORM THE LOCAL RUTGERS COOPERATIVE EXTENSION OFFICES. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS A SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES. IF FERTILIZER IS NOT INCORPORATED, APPLY ONE-HALF THE RATE DESCRIBED ABOVE DURING SEEDBED PREPARATION AND REPEAT ANOTHER ONE-HALF RATE APPLICATION OF THE SAME FERTILIZER WITHIN 3 TO 5 WEEKS AFTER SEEDING.
 - WORK LIME AND FERTILIZER INTO THE TOPSOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING-TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISKING OPERATION SHOULD BE ON THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLE UNIFORM SEEDBED IS PREPARED.
 - HIGH ACID PRODUCING SOIL. SOILS HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDE SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE BEFORE INITIATING SEEDBED PREPARATION.
- WHEN THE SOIL TO BE SEEDED HAS A PH VALUE OF LESS THAN 5.8, SUFFICIENT PULVERIZED LIMESTONE SHALL BE ADDED TO CHANGE THE SOIL PH VALUE TO 6.5. ALL AREAS TO BE SEEDED SHALL MEET THE SPECIFIED FINISH GRADES AND SHALL BE FREE OF ANY STONES, ROCKS, ROOTS, WIRES, CLODS, AND OTHER DEBRIS MEASURING 2 INCHES (50 MM) OR MORE IN ANY DIMENSION. RECOMMENDED AMOUNTS OF TOTAL OXIDES (CALCIUM AND MAGNESIUM) TO RAISE THE PH OF A 4 INCH (100 MM) LAYER OF DIFFERENT SOIL TEXTURAL CLASSES TO APPROXIMATELY 6.5 ARE AS FOLLOWS:

Soil (pH)	Loamy Sand	Sandy Loam	Loam	Silt Loam
5.7	300	600	900	1200
5.3-5.6	600	1035	1500	1800
4.9-5.2	900	1500	2100	2400
4.5-4.8	1200	1800	2700	3000
4.1-4.4	1500	2100	3300	3600

Soil (pH)	Loamy Sand	Sandy Loam	Loam	Silt Loam
5.7	0.3	0.7	1.0	1.3
5.3-5.6	0.7	1.2	1.7	2.0
4.9-5.2	1.0	1.7	2.4	2.7
4.5-4.8	1.3	2.0	3.0	3.4
4.1-4.4	1.7	2.4	3.7	4.0
- THE LABORATORY SHALL STIPULATE THE ABOVE REQUIREMENTS FOR THE TOTAL AMOUNTS OF MAGNESIUM AND CALCIUM OXIDES BASED ON TESTS RUN ON THE SOIL SAMPLES SUBMITTED.
- WITHIN THE LIMITS SET FORTH UNDER MATERIALS, THE CONTRACTOR MAY SELECT THE FERTILIZER HE WILL USE. THE FERTILIZER FOR ESTABLISHING TURF SHALL BE LIMITED TO ONE SELECTION THROUGHOUT THE PROJECT. FERTILIZER SHALL BE APPLIED IN THE QUANTITY NECESSARY TO YIELD 60 POUNDS OF NITROGEN PER ACRE (70 KG/HA), 30 POUNDS PER ACRE (35 KG/HA) AT THE TIME OF SEEDING AND AN ADDITIONAL APPLICATION OF 30 POUNDS PER ACRE (35 KG/HA) APPROXIMATELY SIX MONTHS AFTER SEEDING. IT IS PREFERRED THAT THIS SECOND APPLICATION BE MADE DURING THE MONTHS OF MARCH OR SEPTEMBER.
- TYPE A SEED MIXTURE SHALL BE SOWN AT THE RATE OF 100 POUNDS PER ACRE (110 KG/HA) THROUGHOUT THE PROJECT.
- TYPE A-3 SEED MIXTURE SHALL BE SOWN AT THE RATE OF 100 POUNDS PER ACRE (110 KG/HA) THROUGHOUT THE PROJECT.
- TYPE A-4 SEED MIXTURE SHALL BE SOWN AT THE RATE OF 100 POUNDS PER ACRE (110 KG/HA) THROUGHOUT THE PROJECT.
- WETLAND SEED MIXTURE SHALL BE SOWN AT THE RATE OF 100 POUNDS PER ACRE (110 KG/HA) IN RESIDENTIAL AND OTHER AREAS OF REFINED TURF, AS DETERMINED BY THE ENGINEER.
- AREAS TO BE SEEDED SHALL BE FRIABLE AND SHALL CONFORM TO THE PRESCRIBED LINES AND ELEVATIONS. ALL SEEDED AREAS SHALL BE MULCHED THE SAME DAY OR AS REASONABLY PRACTICAL BUT NO LATER THAN 7 DAYS, AS APPROVED.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (CONT)

- SHRUB AND GROUND COVER PLANTINGS SHALL BE MULCHED SEPARATELY.
- SEEDING SHALL BE COMPLETED WHENEVER POSSIBLE FROM MARCH 1 TO MAY 15 AND FROM AUGUST 15 TO OCTOBER 15 WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE. SEEDING WHICH CANNOT BE COMPLETED DURING THESE PERIODS MAY BE PERFORMED AT OTHER TIMES WHEN, IN THE OPINION OF THE ENGINEER, WEATHER AND SOIL CONDITIONS ARE SUITABLE.
- AREAS SHALL BE MULCHED WITH STRAW UNIFORMLY SPREAD IN A LAYER 1 TO 1 1/2 INCHES (25 TO 40 MM) THICK, LOOSE MEASUREMENT, AND SHALL BE BOUND IN PLACE WITH ONE OF THE FOLLOWING: SYNTHETIC PLASTIC EMULSION, FIBER MULCH, OR VEGETABLE-BASED GEL. ALL MULCH SHALL BE LEFT IN PLACE AND ALLOWED TO DISINTEGRATE WITH THE EXCEPTION THAT EXCESSIVE AMOUNTS OF STRAW SHALL BE REMOVED WHEN NECESSARY.

 STRAW SHALL BE THE THRESHED, UNROTTED STALKS OF OATS, RYE, BARLEY OR WHEAT, RELATIVELY FREE FROM SEEDS, NOXIOUS WEEDS AND OTHER FOREIGN MATERIAL. SYNTHETIC PLASTIC EMULSION HIGH POLYMER SYNTHETIC PLASTIC EMULSIONS OF MULCH BINDER SHALL BE MISCIBLE WITH ALL NORMALLY AVAILABLE WATER WHEN DILUTED TO ANY PROPORTION. AFTER ADEQUATE DRYING, THE SYNTHETIC PLASTIC BINDER SHALL NO LONGER BE SOLUBLE OR DISPERSIBLE IN WATER, BUT SHALL REMAIN TACKY UNTIL THE GRASS SEED HAS GERMINATED. THE PLASTIC BINDER SHALL BE PHYSIOLOGICALLY HARMLESS AND SHALL NOT HAVE ANY PHOTOTOXIC OR CROP DAMAGING PROPERTIES. THE MANUFACTURER'S RECOMMENDATIONS FOR RATE OF APPLICATION SHALL BE FOLLOWED.

 FIBER MULCH MATERIAL SHALL BE MADE FROM WOOD OR PLANT FIBERS CONTAINING NO GROWTH OR GERMINATION INHIBITING MATERIALS. THE MANUFACTURER'S RECOMMENDATIONS FOR RATE OF APPLICATION SHALL BE FOLLOWED.
- VEGETABLE-BASED GEL MATERIALS, WHICH CAN BE CLASSIFIED AS NATURALLY OCCURRING POWDER BASED HYDROPHILIC ADDITIVES FORMULATED TO PROVIDE GELS, WHICH, WHEN APPLIED UNDER SATISFACTORY CURING CONDITIONS, SHALL FORM MEMBRANE NETWORKS OF WATER INSOLUBLE POLYMERS. THE VEGETABLE GEL SHALL BE PHYSIOLOGICALLY HARMLESS AND SHALL NOT HAVE PHOTOTOXIC OR CROP-DAMAGING PROPERTIES. THE MANUFACTURER'S RECOMMENDATIONS FOR RATES OF APPLICATION SHALL BE FOLLOWED.
- PULVERIZED LIMESTONE SHALL BE COMPOSED OF NOT LESS THAN 85% OF CALCIUM AND MAGNESIUM CARBONATES AND NOT LESS THAN 40% CALCIUM AND MAGNESIUM OXIDES.
- FERTILIZER FOR ESTABLISHING TURF SHALL HAVE A COMMERCIAL DESIGNATION OF 5-10-5 OR 10-20-10 OR ANY 1-2-1-RATIO FERTILIZER CONTAINING MINIMUM OF 5% NITROGEN, 10% AVAILABLE PHOSPHORIC ACID (P2O5), AND 5% SOLUBLE POTASH (K2O).
- IF THE FERTILIZER IS TO BE APPLIED WITH A MECHANICAL SPREADER IN THE DRY FORM, A MINIMUM OF 75% SHALL PASS A NO. 8 (2.36 MM) SIEVE AND A MINIMUM OF 75% SHALL BE RETAINED ON A NO. 16 (1.18 MM) SIEVE, AND THE MAXIMUM FREE MOISTURE CONTENT SHALL BE 2 %.
- FERTILIZER FOR ESTABLISHING SOD SHALL BE ANY 1-2-2-RATIO FERTILIZER CONTAINING A MINIMUM OF 5% NITROGEN, 10% AVAILABLE PHOSPHORIC ACID (P2O5), AND 10% SOLUBLE POTASH (K2O). (5-10-10, 10-20-20, ETC.)
- ALL FERTILIZERS SHALL BE UNIFORM IN COMPOSITION, FREE FLOWING AND SUITABLE FOR APPLICATION.
- ALL GRASS SEED IN THE FOLLOWING MIXTURES SHALL BE CERTIFIED SEED.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (CONT)

TYPE A SEED MIXTURE

Basic Highway Mix -used to encourage natural vegetation

KIND OF SEED	MIN PURITY (%)	Min GERMS (%)	TOTAL WEIGHT OF MIXTURE
KENTUCKY BLUEGRASS	85	75	20
RED FESCUES (CREEPING or CHEWINGS)	95	80	35
KENTUCKY 31	95	80	20
REDTOP	92	85	10
PERENIAL RYEGRASS	98	85	10
WHITE COVER	97	90	5

TYPE A-3 SEED MIXTURE

BASIC HIGHWAY MIX -USED AS BASIC SEED MIX FOR NORMAL SEED BED CONDITIONS

KIND OF SEED	MIN PURITY (%)	Min GERMS (%)	TOTAL WEIGHT OF MIXTURE
TALL FESCUE	95	80	60
KENTUCKY BLUEGRASS	85	75	10
CHEWING FESCUE	95	85	10
PERENIAL RYEGRASS	92	85	10

TYPE A-4 SEED MIXTURE

KIND OF SEED	% OF TOTAL WEIGHT OF MIXTURE
SPREADING FESCUE	30
CHEWINGS OR HARD FESCUE	30
KENTUCKY BLUEGRASS	30
PERENIAL RYEGRASS	10

SE-2
SE-7

COUNTY OF UNION
 DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
 SOIL EROSION AND SEDIMENT CONTROL NOTES -2-

INTERSECTIONS ALONG EAST AND WEST
 7TH ST (CR 601) AND THE INTERSECTION
 OF EAST FRONT ST (CR 620) AND LELAND AVE
 MICHAEL BAKER INTERNATIONAL, INC.
 CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
 NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

84

USERNAME: Trevor.Malik
DATE & TIME: 14-SEP-2022 14:57
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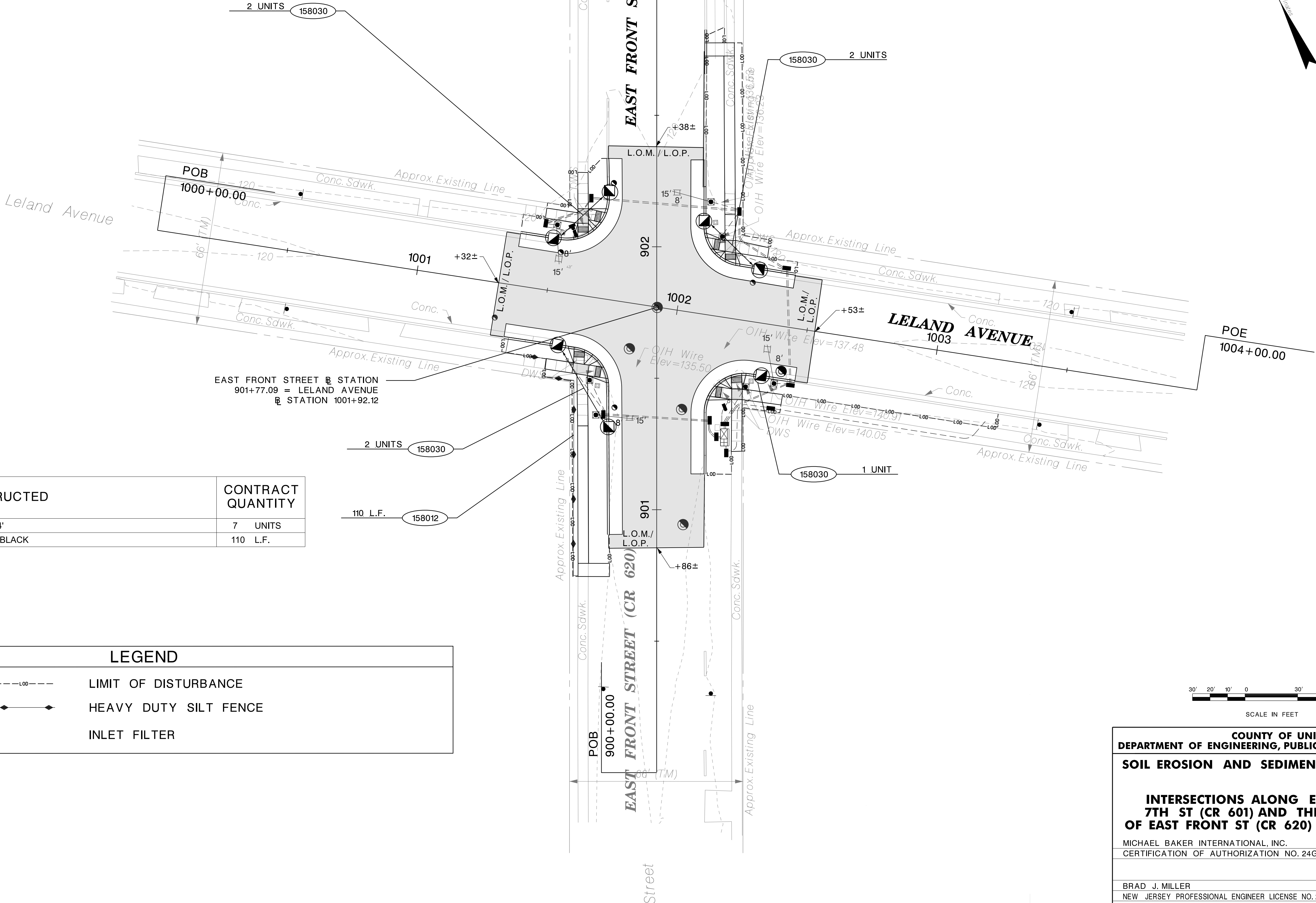
CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
158030M	INLET FILTER TYPE 2, 2' X 4'	7 UNITS
158012M	HEAVY-DUTY SILT FENCE, BLACK	110 L.F.

LEGEND	
	LIMIT OF DISTURBANCE
	HEAVY DUTY SILT FENCE
	INLET FILTER



SE-3
SE-7

SCALE IN FEET

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
SOIL EROSION AND SEDIMENT CONTROL PLANS 1

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

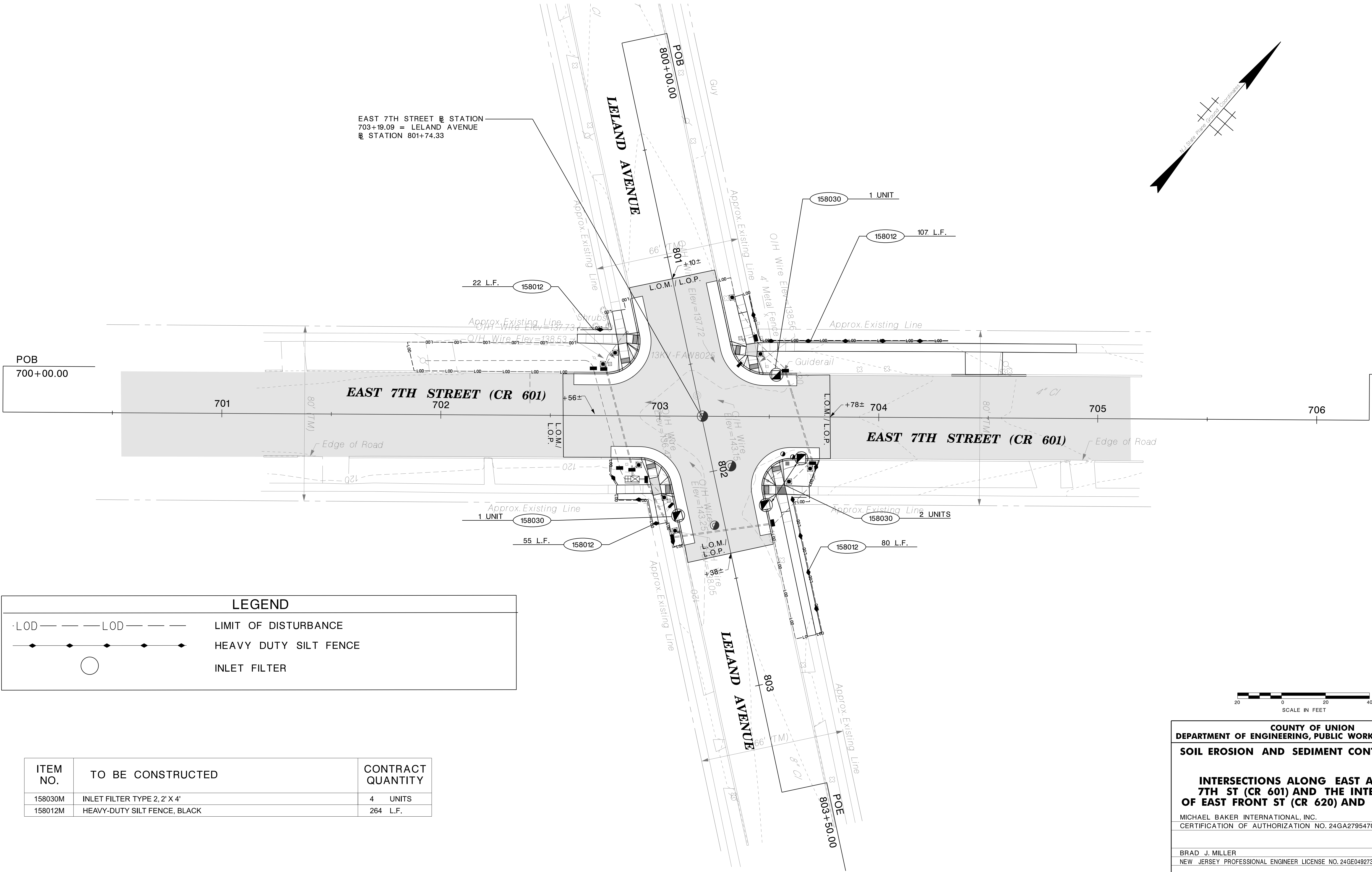
BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME:Trevor.Malik
DATE & TIME: 14-SEP-2022 14:57
MBIPW PATH LOCATION: pwr:\mb-us-pw-bentley\commdb-us-pw-08\Documents\Hamilton_NJ\01_Projects\NJ\TPA\FY2018-LEAP\B-1_Union-County\CADD\Plan\Contract-Set\22_SESC\176703_SESC\22

CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)



LEGEND

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LIMIT OF DISTURBANCE

HEAVY DUTY SILT FENCE

INLET FILTER

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
158030M	INLET FILTER TYPE 2, 2' X 4'	4 UNITS
158012M	HEAVY-DUTY SILT FENCE, BLACK	264 L.F.



COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES
SOIL EROSION AND SEDIMENT CONTROL PLANS 2

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

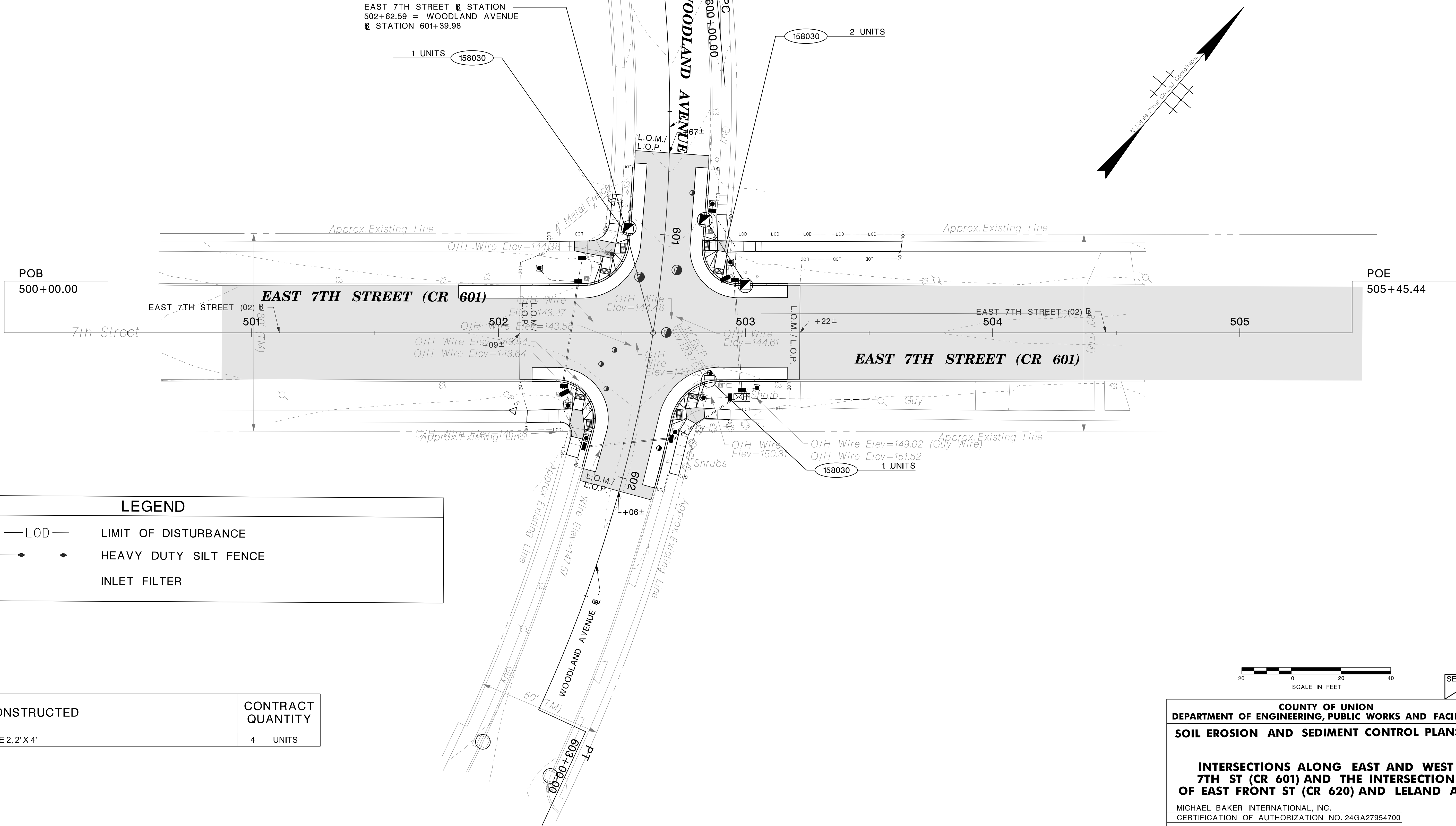
SE-4
SE-7

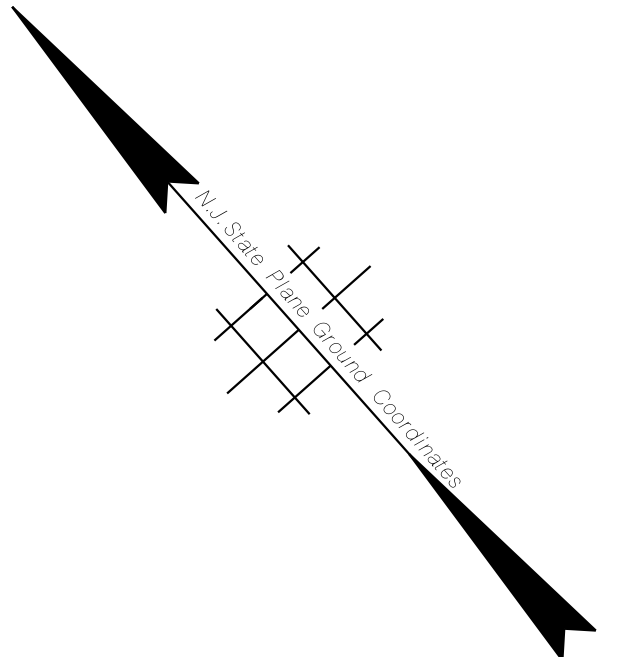
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DATE & TIME: 14-SEP-2022 14:57
MBIPW PATH LOCATION: pwr:/mb-us-pw-bentley.com/mb-us-pw-08/Documents/Hamilton_NJ/01_Projects/NJTPA/176703_NJTPA-FY-2018-LEAP/176703_NJTPA-FY-2018-LEAP/176703_SESC/176703_SESC-03

CITY OF PLAINFIELD

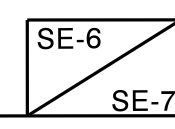
COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)





ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
158030M	INLET FILTER TYPE 2, 2' X 4'	5 UNITS
158012M	HEAVY-DUTY SILT FENCE, BLACK	104 L.F.



**INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE**

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

USERNAME: Trevor.Malik
DATE & TIME: 14-SEP-2022 14:59
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CITY OF PLAINFIELD

COUNTY OF UNION

STATE	FEDERAL PROJECT NO.
NJ	HSIP-D00S(627)

LEGEND

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LIMIT OF DISTURBANCE

HEAVY DUTY SILT FENCE

INLET FILTER

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
158030M	INLET FILTER TYPE 2, 2' X 4'	2 UNITS

COUNTY OF UNION
DEPARTMENT OF ENGINEERING, PUBLIC WORKS AND FACILITIES

SOIL EROSION AND SEDIMENT CONTROL PLANS 5

INTERSECTIONS ALONG EAST AND WEST
7TH ST (CR 601) AND THE INTERSECTION
OF EAST FRONT ST (CR 620) AND LELAND AVE

MICHAEL BAKER INTERNATIONAL, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27954700

BRAD J. MILLER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04927300

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