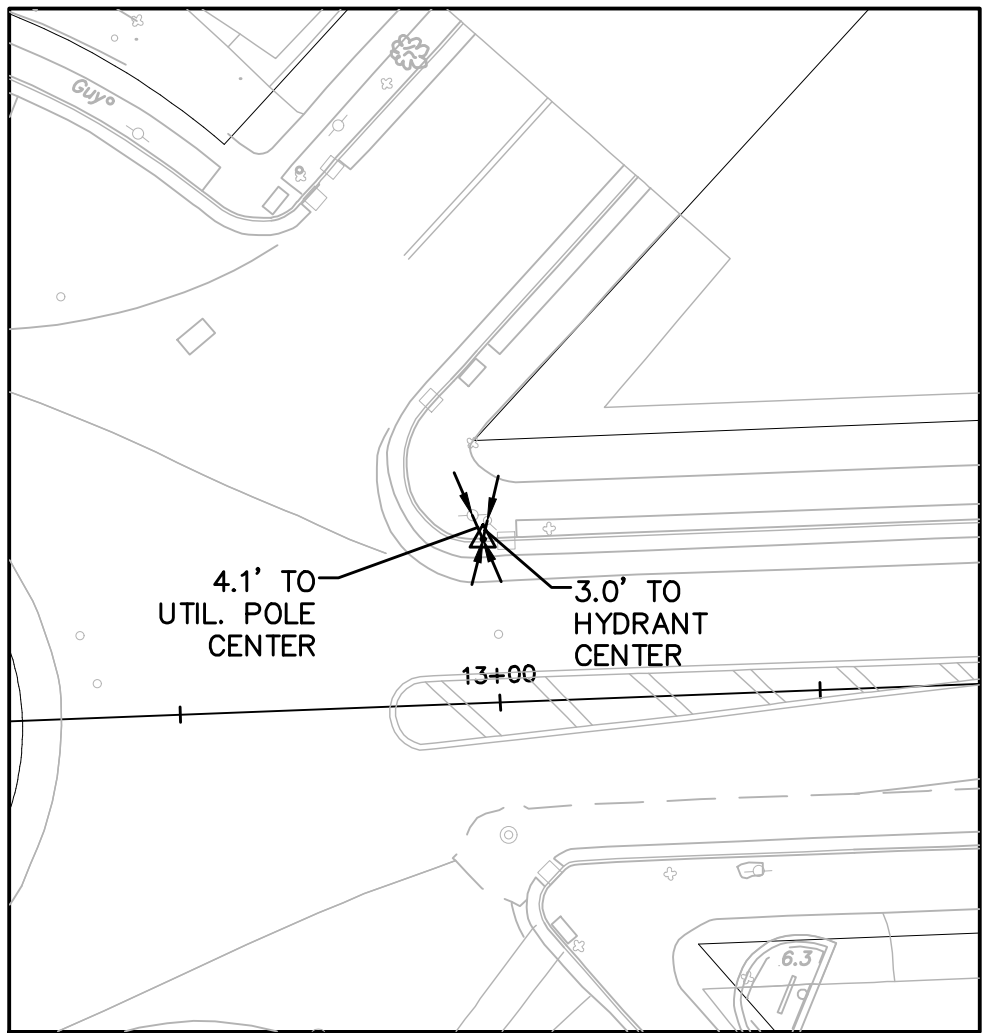
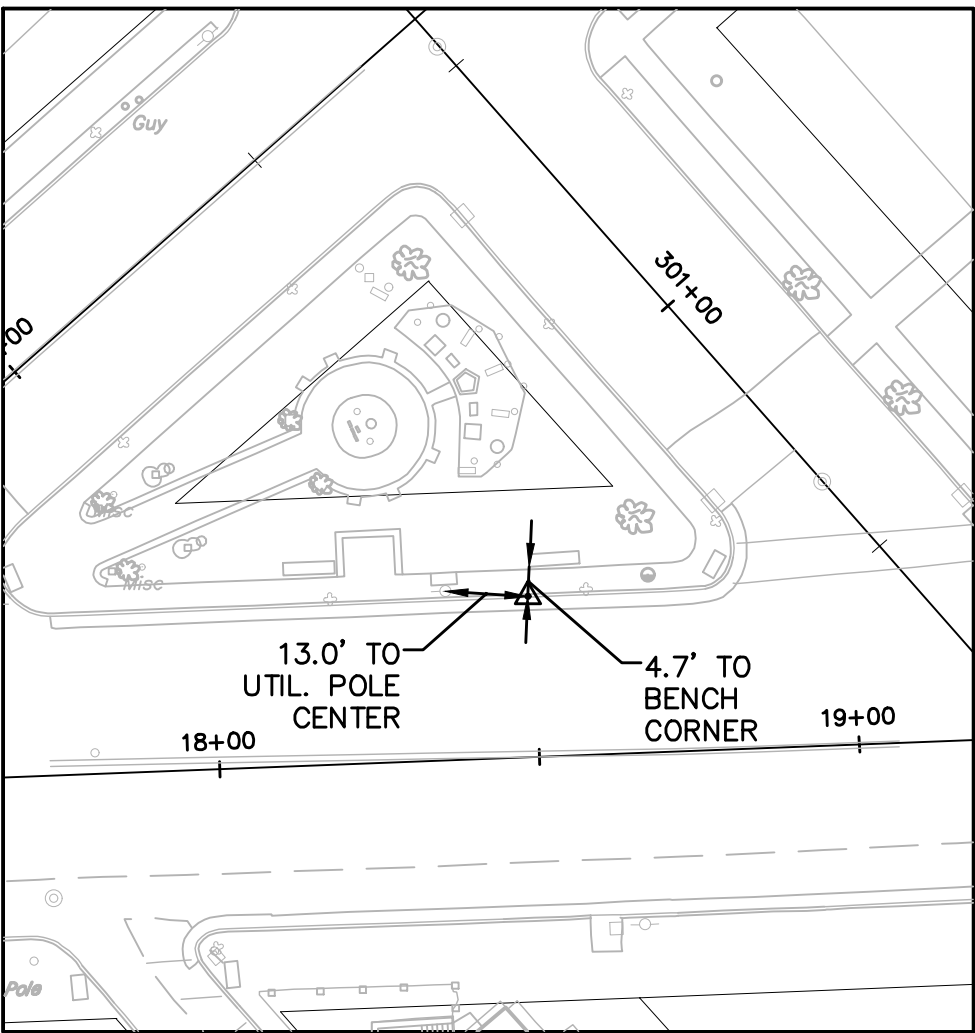


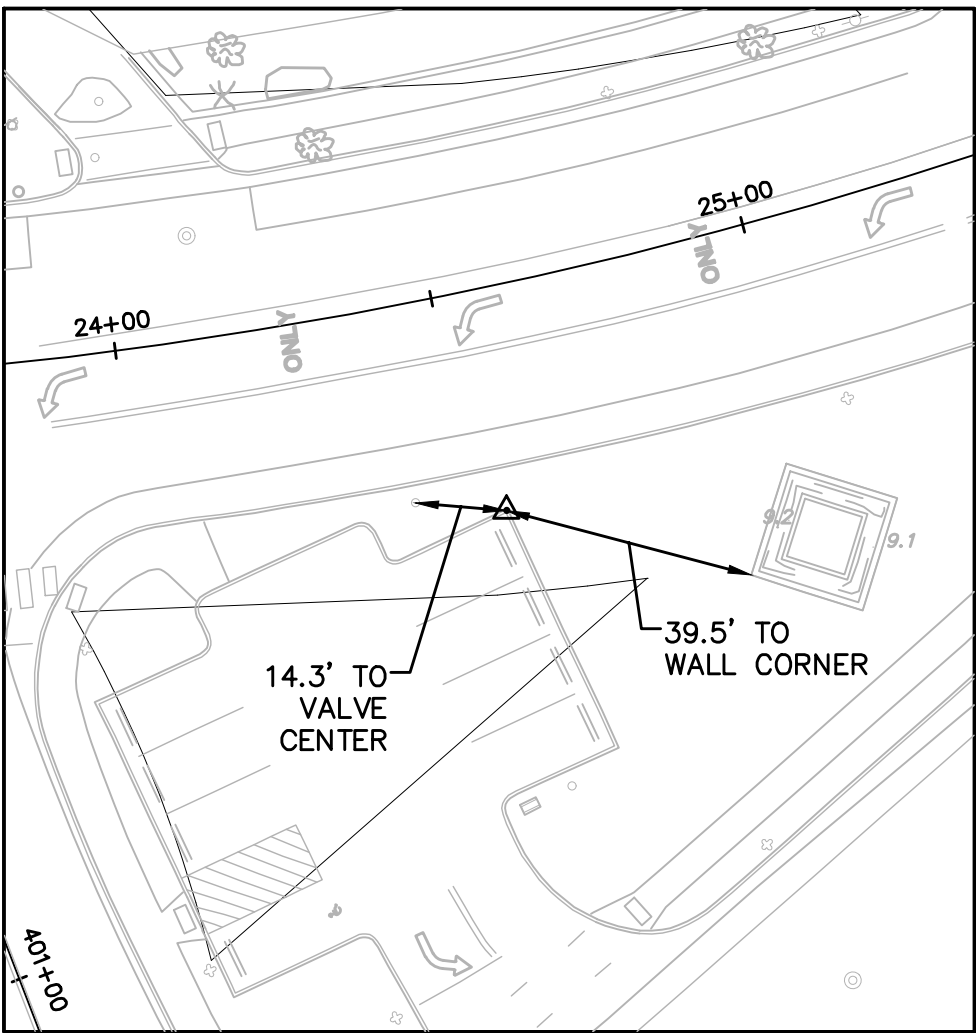
GPS POINT "3"
SURVEY B.L. STA 10+00.00
SCALE: 1"= 30'



TRAVERSE POINT "103"
SURVEY B.L. STA 14+55.57
SCALE: 1"= 30'



TRAVERSE POINT "102"
SURVEY B.L. STA 20+06.44
SCALE: 1"= 30'



TRAVERSE POINT "100"
SURVEY B.L. STA 26+19.26
SCALE: 1"= 30'

TRAVERSE ALIGNMENT DATA				
NO.	SURVEY BASELINE STATION	NORTH COORD.	EAST COORD.	ELEVATION
GPS "3"	10+00.00	204537.861	523053.617	
103	14+55.57	204552.124	523508.964	4.20
102	20+06.44	204572.833	524059.449	4.69
100	26+19.26	204546.945	524671.722	8.24

PROPOSED ALIGNMENT DATA				
BASELINE	TRAVERSE	BASELINE	NORTH COORD.	EAST COORD.
	STATION	OFFSET		
BRIGANTINE BOULEVARD				
POB 10+00.00	11+57.48	27.64' RT	204515.17	523211.89
PI 23+33.24	24+90.99	13.96' LT	204566.31	524544.15
POE 26+74.00	28+12.35	118.32' LT	204657.00	524869.63

HORIZONTAL DATUM
NORTH AMERICAN DATUM OF 1983(2011)
VERTICAL DATUM
NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)
COORDINATE SYSTEM
PROJECT HORIZONTAL DATUM IS IN GROUND COORDINATES DERIVED FROM N.A.D. OF 1983 (2011) AS DETERMINED BY APPLYING THE INVERSE OF THE AVERAGE COMBINED FACTOR (0.9999062906) TO THE NAD83 (2011) STATE PLANE COORDINATES AS LISTED IN THE PROJECT SURVEY REPORT.

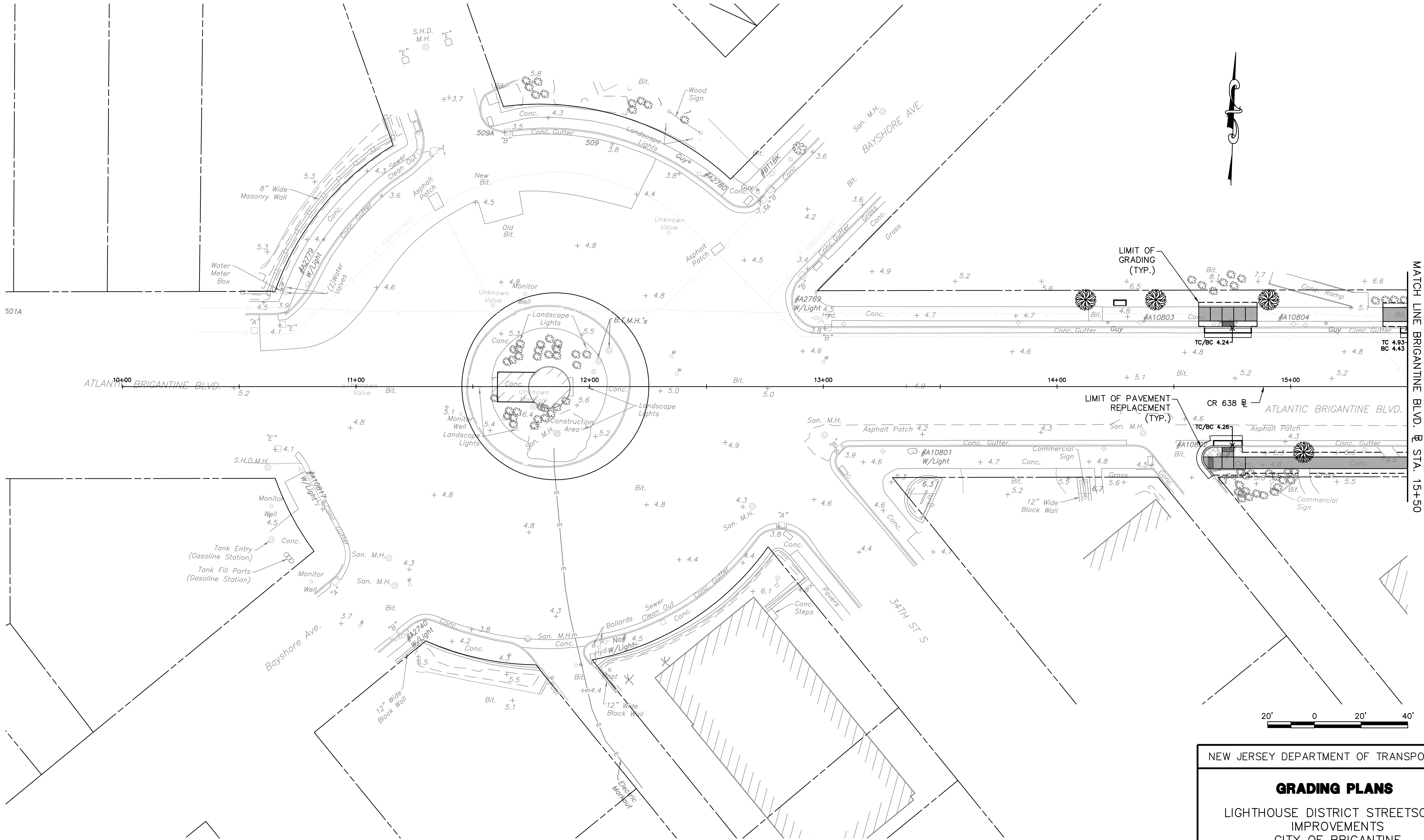
NEW JERSEY DEPARTMENT OF TRANSPORTATION

TIES

LIGHTHOUSE DISTRICT STREETSCAPE
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSERT
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

STATE	FEDERAL PROJECT NO.	N.J.DOT JOB NO.
N.J.	TA-AC-0638 (304)	5503313



MATCH LINE BRIGANTINE BLVD. @ STA. 15+50

PLAN SHEET NO. G-2



G-1
G-3

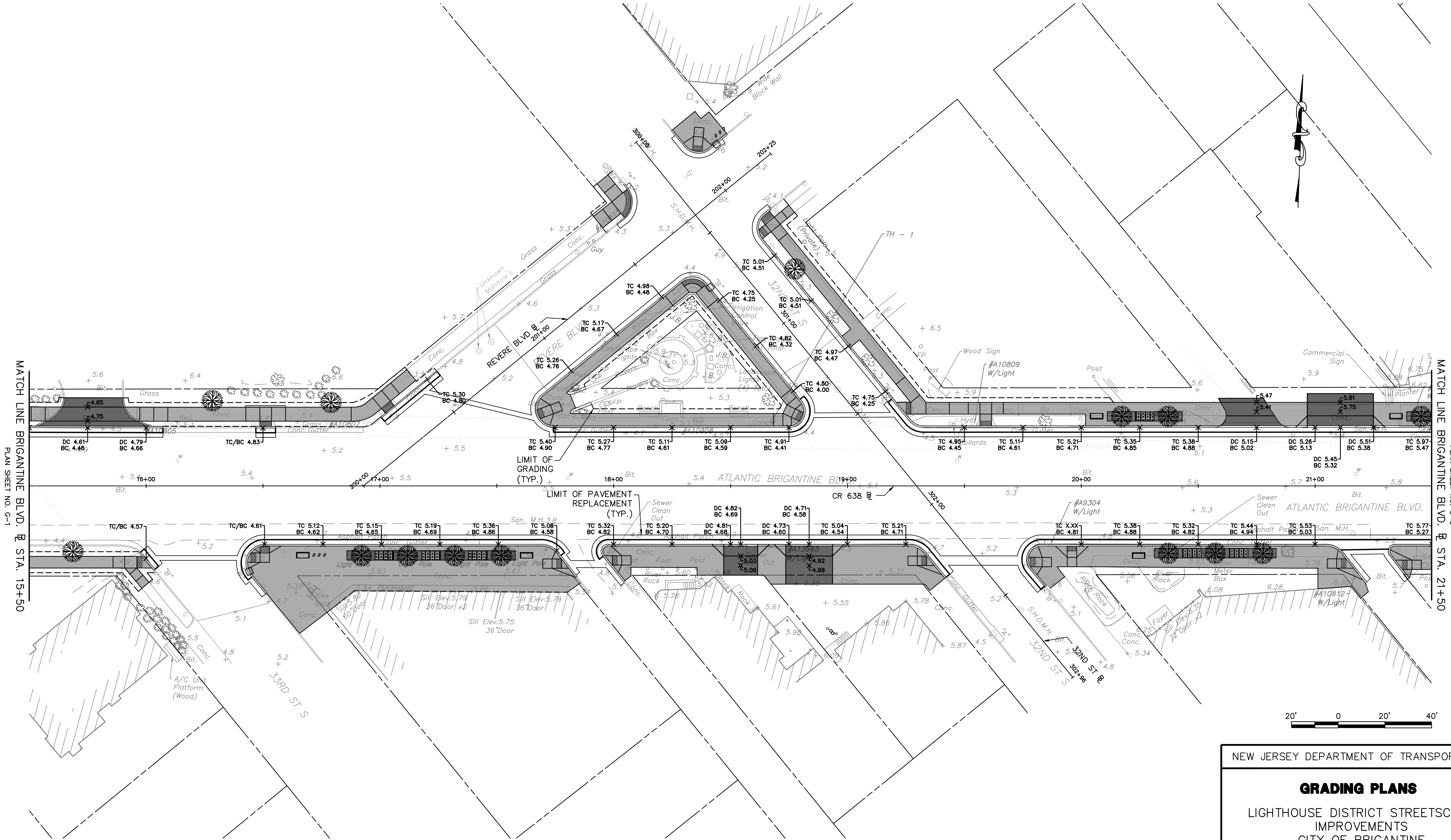
NEW JERSEY DEPARTMENT OF TRANSPORTATION

GRADING PLANS

LIGHTHOUSE DISTRICT STREETSCAPE
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSER
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STATE	FEDERAL PROJECT NO.	N.J.DOT JOB NO.
N.J.	TA-AC-0638 (304)	6503313



MATCH LINE BRIGANTINE BLVD. @ STA. 15+50
PLAN SHEET NO. G-1

MATCH LINE BRIGANTINE BLVD. @ STA. 21+50
PLAN SHEET NO. G-3



G-2
G-3

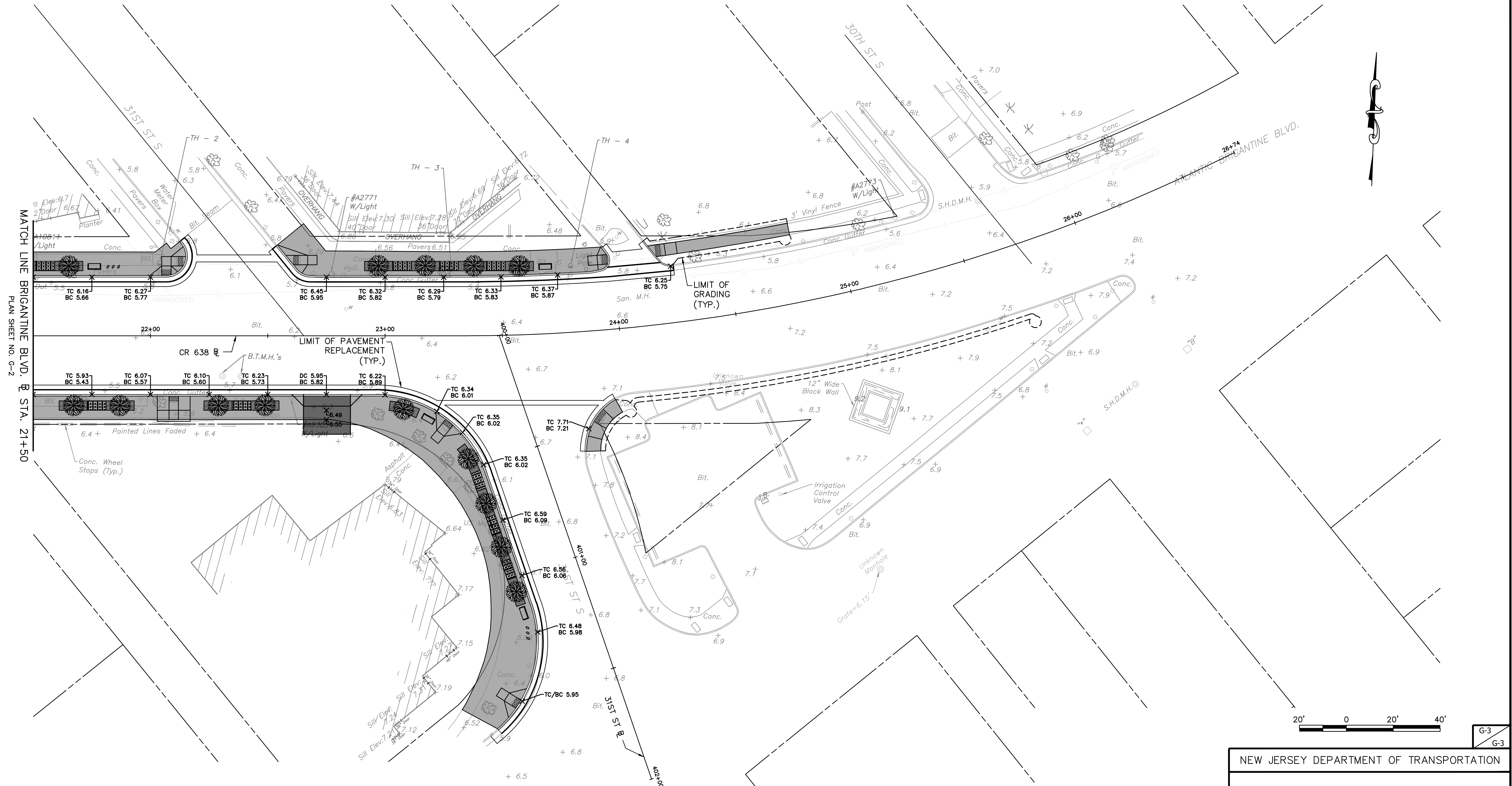
NEW JERSEY DEPARTMENT OF TRANSPORTATION

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STATE	FEDERAL PROJECT NO.	NJDOT JOB NO.
N.J.	TA-AC-0638 (304)	5503313



GRADING PLANS

LIGHTHOUSE DISTRICT STREETScape IMPROVEMENTS CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
 CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
 BRIAN W. MAUSERT
 NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

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GENERAL NOTES:

1. PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
2. IF UTILITY WORK IS REQUIRED, THE UTILITY COMPANIES MAY PERFORM WORK ON THEIR OWN SCHEDULE, IMPLEMENTING THEIR OWN MPT SCHEMES. THESE ARE TO MEET THE NJDOT STANDARD DETAILS. NOTIFICATION SHALL BE PROVIDED TO THE UTILITY COMPANIES AS NOTED IN THE SPECIFICATIONS.
3. MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, PART 6 "TEMPORARY TRAFFIC CONTROL", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS.
4. WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE RESIDENT ENGINEER.
5. CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE RE.
6. ANY WORK ZONES/CLOSURES SHALL MAINTAIN ACCESS TO INTERSECTING STREETS.
7. MAINTAIN STORMWATER DRAINAGE DURING CONSTRUCTION.
8. SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN ARE TO BE PROVIDED WITH AT LEAST ONE W-201F SIGN (ROAD WORK AHEAD) AS A MINIMUM.
9. PEDESTRIAN ACCESS TO BUSINESSES WITHIN WORK AREA SHALL BE MAINTAINED DURING BUSINESS HOURS. CONSTRUCT AND MAINTAIN TEMPORARY RAMPS THAT ACCOMMODATE PEDESTRIAN ACCESS DURING ACTIVE WORK ZONES.
10. WHERE THE WORK WITHIN THE LIMITS OF A DRIVEWAY (INCLUDING SIDEWALK CURING) CANNOT BE COMPLETED IN ONE WORK SHIFT, COVER THE WORK AREA WITH STEEL PLATES AT THE END OF THE WORK SHIFT TO MAINTAIN DRIVEWAY ACCESS.
11. TRAFFIC IMPACT NOTICES AND CHANGES

A. TERMS:

WHEN THE FOLLOWING TERMS ARE USED, THE INTENT AND MEANING SHALL BE AS FOLLOWS:

- i. 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.
- ii. TEMPORARY LANE CLOSURES – WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH IS ROUTINELY SET UP AND REMOVED ON A DAILY BASIS.
- iii. PERMANENT LANE CLOSURES – WORK DESCRIBED UNDER "IMPACTS TO NORMAL TRAFFIC FLOW" WHICH REMAINS IN PLACE CONTINUOUSLY FOR 24 HOURS OR MORE.

B. ADVANCE NOTICES:

FOR THE INITIAL START OF WORK THAT REQUIRES "IMPACTS TO NORMAL TRAFFIC FLOW", THE CONTRACTOR SHALL NOTIFY THE RE IN WRITING, ON THE ADVANCE NJDOT FORM TO-103 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 CAN NOT 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.

ADVANCE NOTICES SENT PRIOR TO THE PRE-CONSTRUCTION MEETING ARE TO BE ADDRESSED TO THE CONTACT PERSON AS SPECIFIED IN SUBSECTION 100.04 OF THE SPECIAL PROVISIONS.

C. 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.

SUGGESTED CONSTRUCTION STAGING SEQUENCE:

NOTES:

1. SOME CONSTRUCTION ACTIVITIES MAY BE SUBJECT TO TIMING RESTRICTIONS, SEE SPECIAL PROVISIONS.
2. ESTABLISH PEDESTRIAN DETOUR(S) PRIOR TO INITIATING REMOVAL OF EXISTING SIDEWALK, CURB RAMPS AND CURB.
3. STAGE/STAGGER REMOVAL OF EXISTING CURB AND SIDEWALK, AND CONSTRUCTION OF PROPOSED CURB AND SIDEWALK SUCH THAT PEDESTRIAN DETOURS WILL NOT EXCEED ONE (1) CITY BLOCK.
4. COORDINATE ALL SHOULDER CLOSURES, LANE AND SHOULDER CLOSURES, AND DETOURS WITH THE CITY OF BRIGANTINE POLICE DEPARTMENT.

PRE-STAGE 1:

1. INSTALL UNDERGROUND CONDUIT, JUNCTION BOXES AND ELECTRICAL LIGHTING FOUNDATIONS.

STAGE 1:

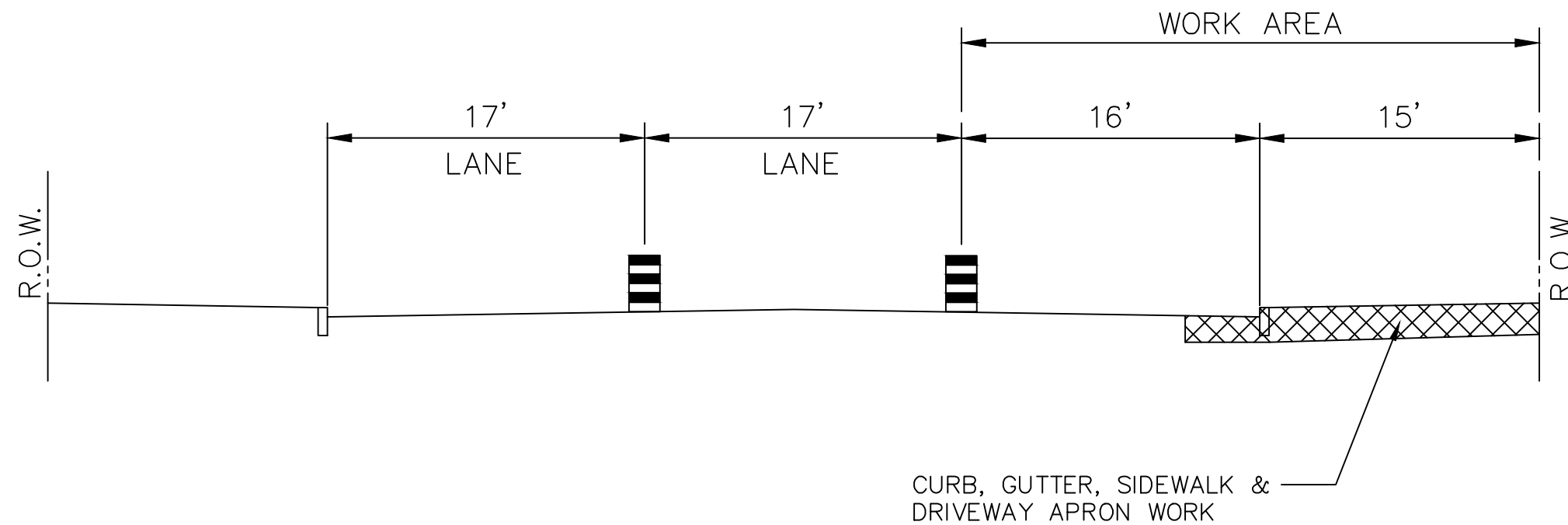
1. ESTABLISH DETOUR AND TRAFFIC CONTROL DEVICES.
2. REMOVE EXISTING CURB, GUTTER, SIDEWALK AND DRIVEWAY APRONS ON THE SOUTH SIDE OF BRIGANTINE BOULEVARD.
3. EXCAVATE AND GRADE.
4. CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, AND DRIVEWAY APRONS.

STAGE 2:

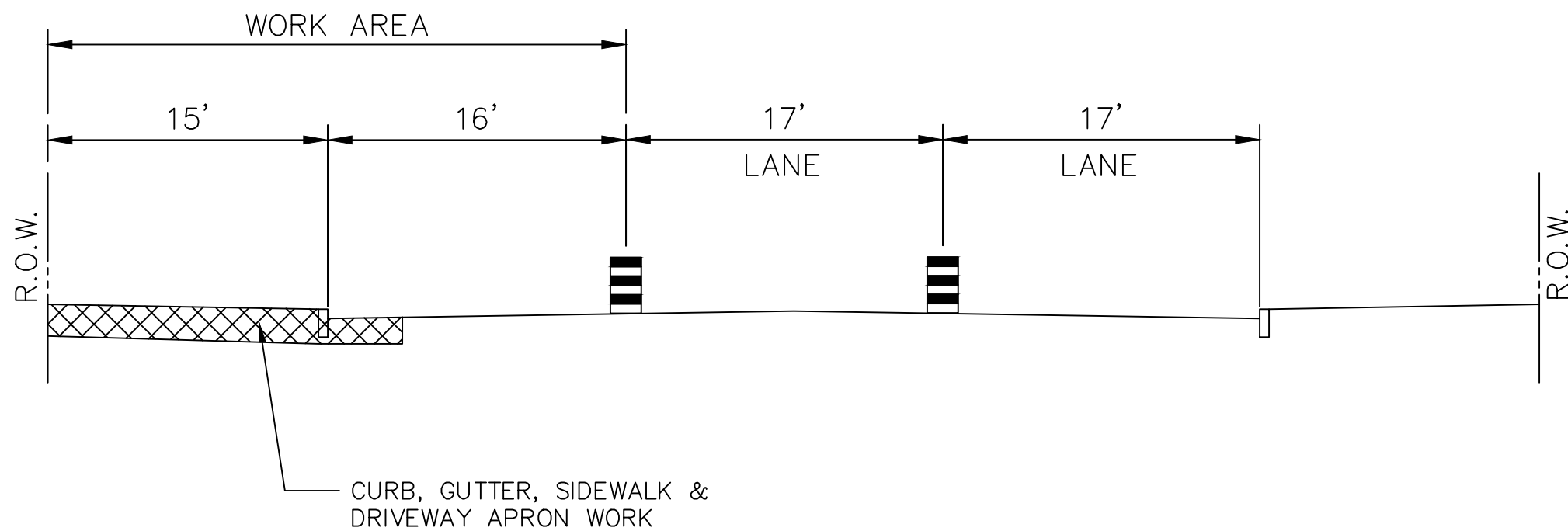
1. ESTABLISH DETOUR AND TRAFFIC CONTROL DEVICES.
2. REMOVE EXISTING CURB, GUTTER, SIDEWALK AND DRIVEWAY APRONS ON THE NORTH SIDE OF BRIGANTINE BOULEVARD.
3. EXCAVATE AND GRADE.
4. CONSTRUCT PROPOSED CURB AND GUTTER, SIDEWALK, DRIVEWAY APRONS AND BIKE RACKS.
5. RESTRIPE ROADWAY

STAGE 3:

1. INSTALL DECORATIVE LIGHTING & METER CABINET.
2. PLANT LANDSCAPING TREES & GROUND COVER.
3. INSTALL TRASH RECEPTACLES & BENCHES.



STAGE 1
LOOKING EAST



STAGE 2
LOOKING EAST

TC-1
TC-5

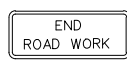





















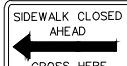
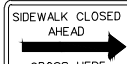

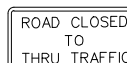


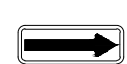

NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND
STAGING PLANS

LIGHTHOUSE DISTRICT STREETScape
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSERT
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

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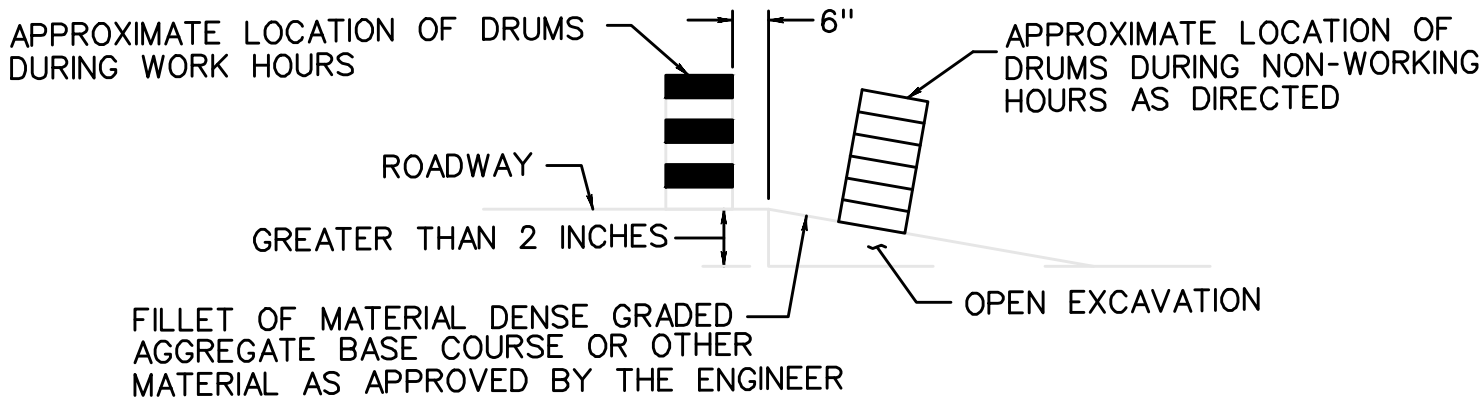
SCHEDULE OF SIGNS FOR TRAFFIC CONTROL PLANS									
SIGN DESIGNATION AND SIZE	AREA (SF)	REQ'D QUANTITY (MAX. # ANY STAGE)	TOTAL AREA (SF)	SIGN DESIGNATION AND SIZE	AREA (SF)	REQ'D QUANTITY (MAX. # ANY STAGE)	TOTAL AREA (SF)		
 G20-2A 48" X 24"	8	10	80	 W8-9a 48" X 48"	16	2	32		
 M4-8a 24" X 18"	3	1	3	 W8-14a 48" X 48"	16	2	32		
 M4-9L 30" X 24"	5	1	5	 W20-1A 48" X 48"	16	4	64		
 M4-9R 30" X 24"	5	2	10	 W20-1D 48" X 48"	16	4	64		
 M4-9X 30" X 24"	5	1	5	 W20-1F 48" X 48"	16	7	112		
 M4-9b(L) 30" X 24"	5	4	20	 W20-2F 48" X 48"	16	3	48		
 M4-9b(R) 30" X 24"	5	4	20	 W20-4B 48" X 48"	16	2	32		
 M4-9b(X) 30" X 24"	5	3	15	 W20-7a 48" X 48"	16	2	32		
 M4-10L 48" X 18"	6	1	6	 W20-7b 48" X 48"	16	2	32		
 M4-10R 48" X 18"	6	1	6	 W99-2 48" X 48"	16	4	64		
 R(NJ)5-17 (S) 48" X 30"	10	2	20	IF AND WHERE DIRECTED			46 SF		
 R9-9 24" X 12"	2	3	6	TOTAL REQUIRED AREA OF CONSTRUCTION SIGNS:			1000 SF		
 R9-11a (L) 24" X 18"	3	7	21						
 R9-11a (R) 24" X 18"	3	5	15						
 R11-2 48" X 30"	10	1	10						
 R11-4 60" X 30"	12.5	2	25						
 W1-4aL 48" X 48"	16	2	32						
 W1-4aR 48" X 48"	16	2	32						
 W1-6 48" X 24"	8	6	48						
 W5-1 (S) 48" X 48"	16	4	64						

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
40	27:1	270	300	325	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110
60	60:1	600	660	720	60	120
65	65:1	650	715	780	65	130

NOTE:
THE MAXIMUM DEVICE SPACING ALONG CURVES SHALL BE AS DEFINED FOR TAPERS (B) IN THE ABOVE TABLE.

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
40	600	825	325
45	675	925	400
50	750	1025	475
55	875	1150	550
60	1000	1275	650
65	1050		725

- NOTES:
1. AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
 2. RECOMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
 3. RURAL AND URBAN ROAD DESIGNATION SHALL BE AS DEFINED IN THE NJDOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
 4. DESIRABLE VALUES SHALL BE PROVIDED 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, SPECIAL ATTENTION SHOULD BE GIVEN TO THE USE OF SUITABLE TRAFFIC CONTROL DEVICES FOR PROVIDING ADVANCED WARNING OF THE CONDITIONS THAT ARE LIKELY TO BE ENCOUNTERED.
 5. TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.



ESCAPE RAMP DETAIL



TC-2
TC-5

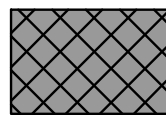

NEW JERSEY DEPARTMENT OF TRANSPORTATION

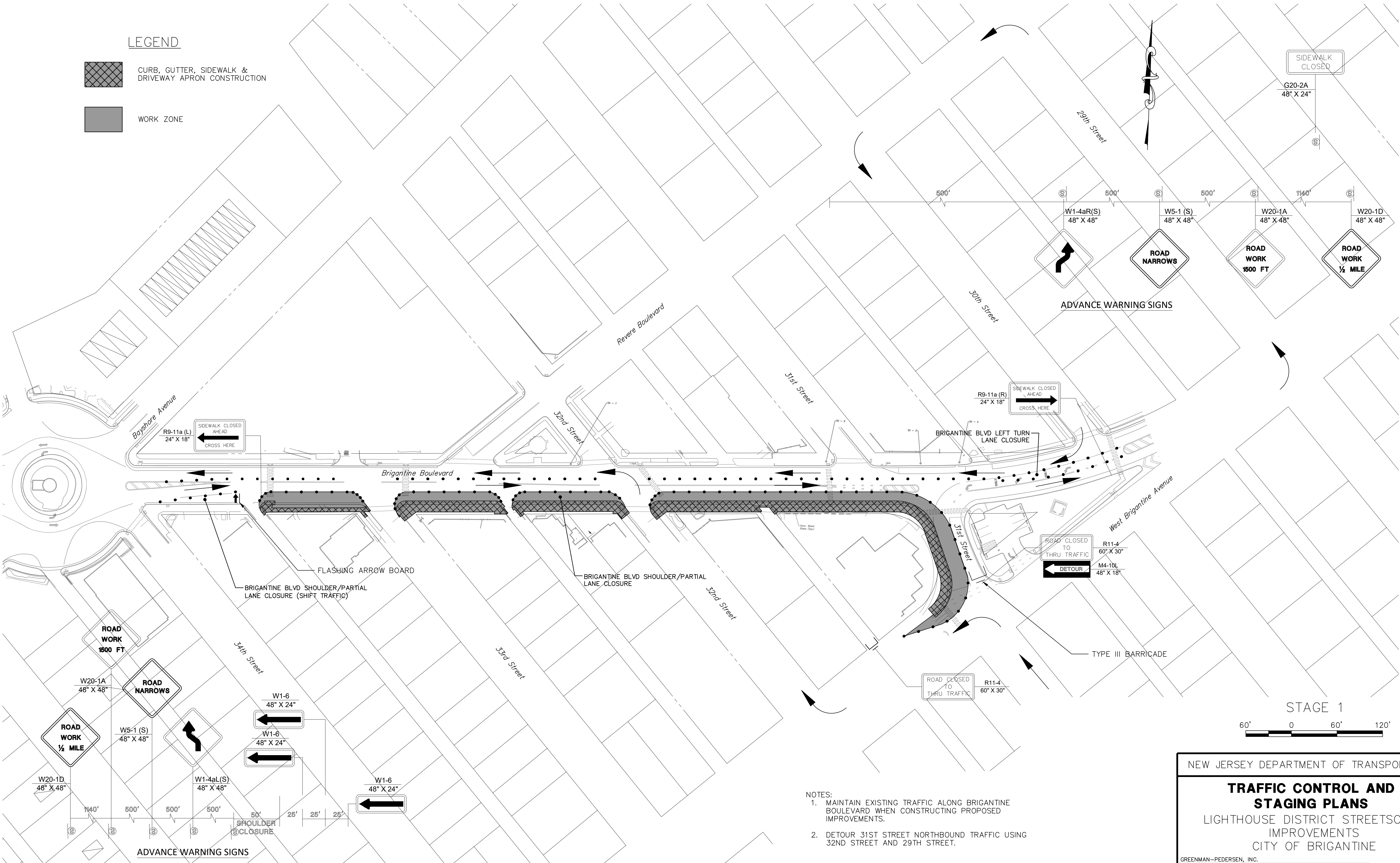
TRAFFIC CONTROL AND STAGING PLANS

LIGHTHOUSE DISTRICT STREETScape IMPROVEMENTS
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BRIAN W. MAUSER
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LEGEND

-  CURB, GUTTER, SIDEWALK & DRIVEWAY APRON CONSTRUCTION
-  WORK ZONE



- NOTES:
1. MAINTAIN EXISTING TRAFFIC ALONG BRIGANTINE BOULEVARD WHEN CONSTRUCTING PROPOSED IMPROVEMENTS.
 2. DETOUR 31ST STREET NORTHBOUND TRAFFIC USING 32ND STREET AND 29TH STREET.

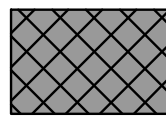

NEW JERSEY DEPARTMENT OF TRANSPORTATION

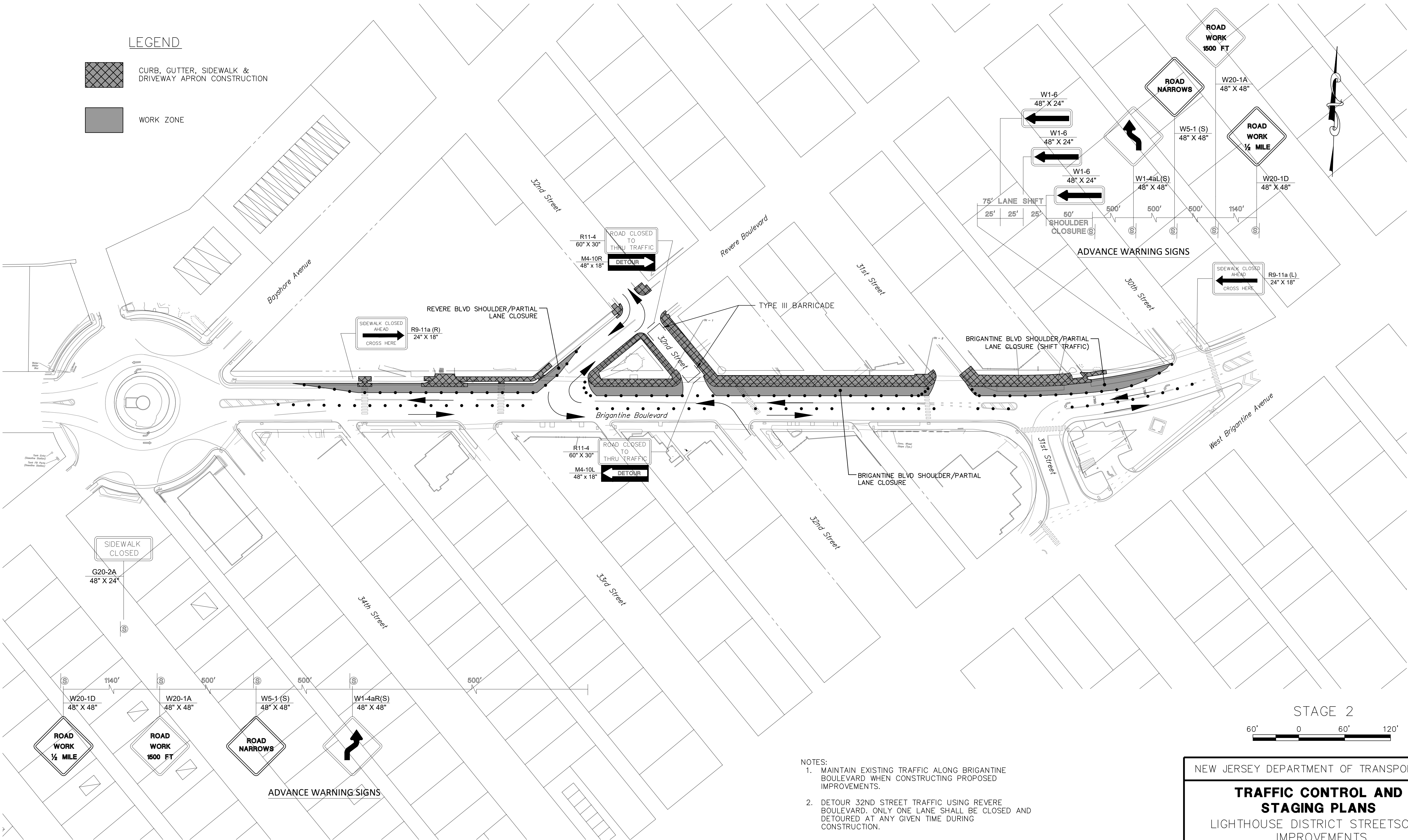
TRAFFIC CONTROL AND STAGING PLANS

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LEGEND

-  CURB, GUTTER, SIDEWALK & DRIVEWAY APRON CONSTRUCTION
-  WORK ZONE



- NOTES:
1. MAINTAIN EXISTING TRAFFIC ALONG BRIGANTINE BOULEVARD WHEN CONSTRUCTING PROPOSED IMPROVEMENTS.
 2. DETOUR 32ND STREET TRAFFIC USING REVERE BOULEVARD. ONLY ONE LANE SHALL BE CLOSED AND DETOURED AT ANY GIVEN TIME DURING CONSTRUCTION.

STAGE 2



TC-4
TC-5

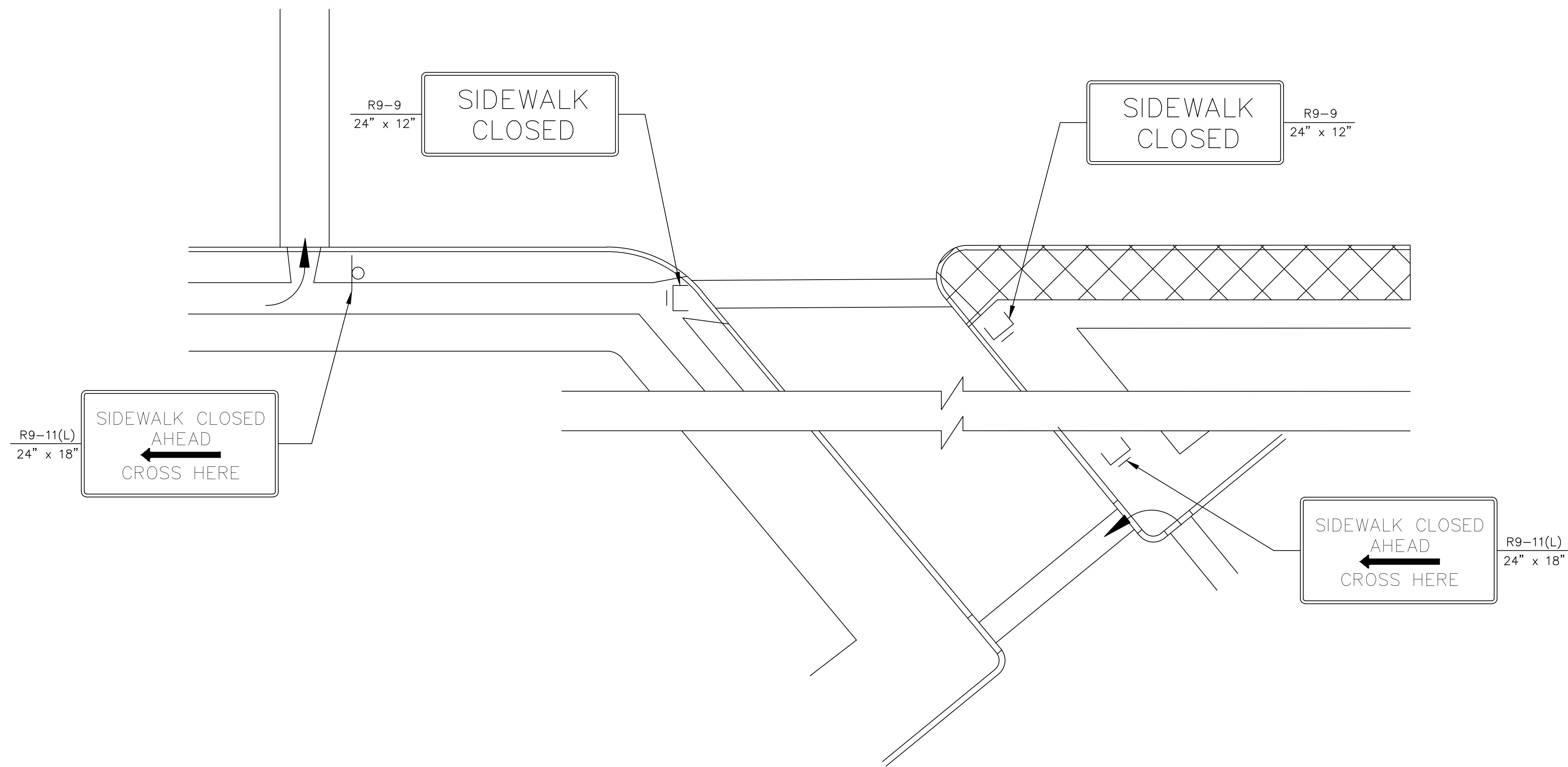
NEW JERSEY DEPARTMENT OF TRANSPORTATION

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TYPICAL PEDESTRIAN DETOUR PATTERN

TC-5
TC-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL AND
STAGING PLANS**

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GENERAL NOTES:

1. ALL PAVEMENT MARKINGS AND SIGNS SHALL BE NEW AND IN CONFORMANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL TRAFFIC SIGNS SHALL BE INSTALLED BY THE CONTRACTOR SO THAT THEY DO NOT OBSCURE EACH OTHER OR ARE HIDDEN FROM VIEW BY OTHER ROADSIDE OBJECTS.
3. UNLESS EXPLICITLY NOTED ON THE PLANS ALL EXISTING SIGNS ARE TO REMAIN.
4. THE CONTRACTOR SHALL RESET OR RELOCATE ANY EXISTING SIGNS IMPACTED DURING CONSTRUCTION AT THE DIRECTION OF THE RE.
5. PAINT CURB WITHIN AREAS OF NO PARKING AS INDICATED ON THE PLANS.

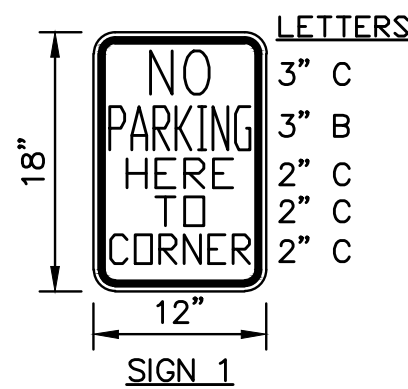
SIGN LEGEND

MUTCD DESIGNATION	MESSAGE	SIZE
SIGN 1	NO PARKING HERE TO CORNER	12" x 18"
R3-17	BIKE LANE	24" x 18"
R3-17 (SPECIAL)	RIGHT LANE BIKES ONLY	24" x 30"
R3-17aP	AHEAD (PLAQUE)	24" x 8"
R3-17bP	ENDS (PLAQUE)	24" x 8"
R8-3	NO PARKING (SYMBOL)	24" x 24"
W11-2	PEDESTRIAN	36" x 36"
W11-15	BICYCLE / PEDESTRIAN	36" x 36"
W16-7PL	DOWNWARD DIAGONAL ARROW (PLAQUE)	24" x 12"
M5-1R	ADVANCE RIGHT TURN ARROW	21" x 15"

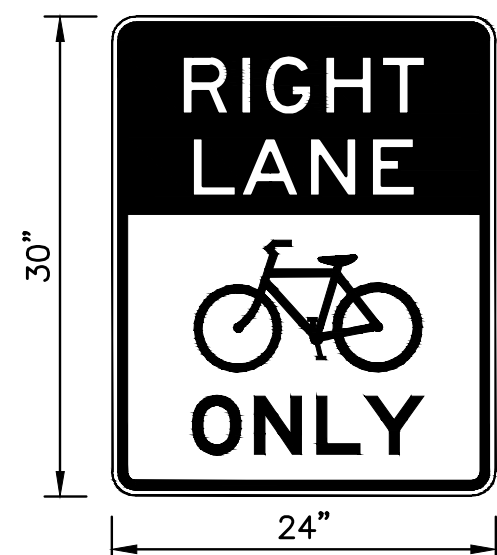
PAVEMENT MARKING LEGEND

UNLESS OTHERWISE SHOWN, PAVEMENT MARKINGS SHALL CONFORM TO THE FOLLOWING:

PAVEMENT MARKING	DESCRIPTION	LEGEND
LANE LINE	4" WIDE SOLID WHITE	LL
WIDE LANE LINE	8" WIDE SOLID WHITE	WLL
CROSSWALK LINE	DECORATIVE CROSSWALK STRIPING (SEE DETAIL)	CWL
WIDE DOTTED LANE LINE	8" WIDE WHITE, 2' LONG WITH 4" GAP	WDL
CROSSHATCH LINE	24" WIDE WHITE SPACED 16' O.C. AT 45°	CHL



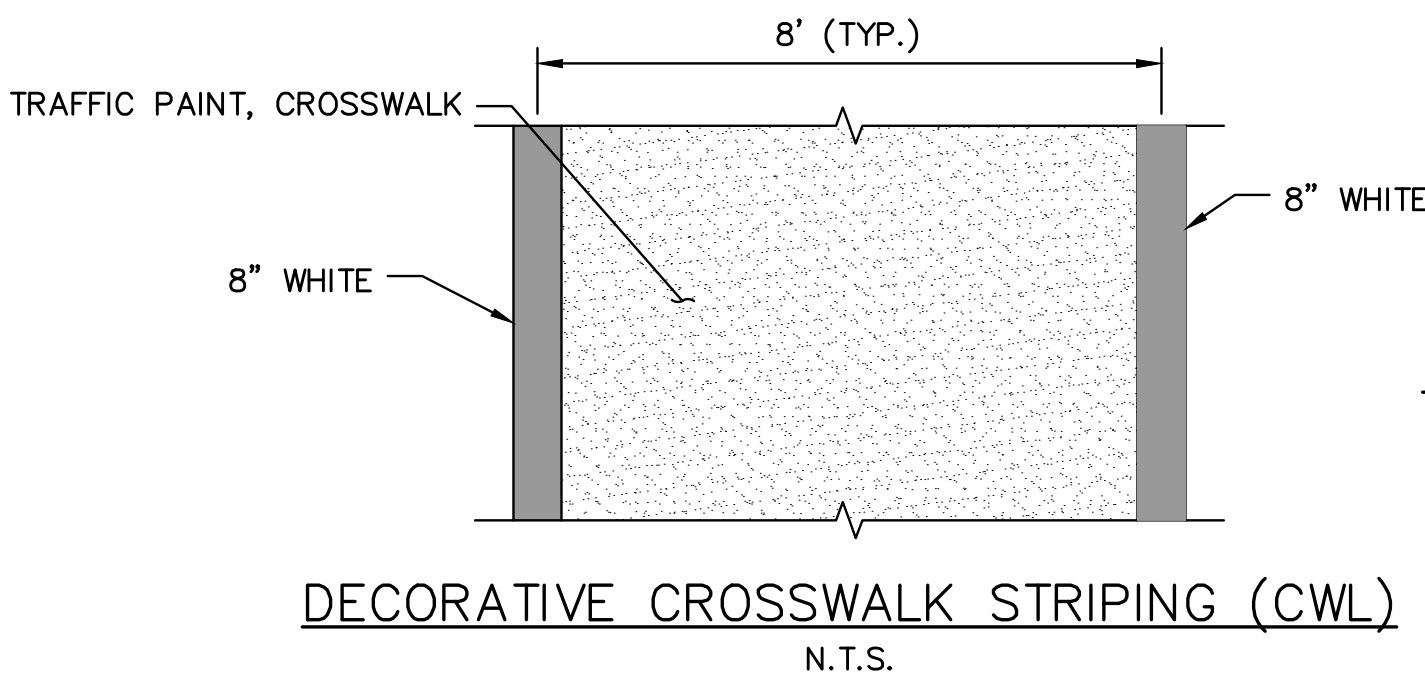
COLORS:
TEXT - RED
BACKGROUND - WHITE



R3-17 (SPECIAL)

COLORS:
RIGHT, LANE - WHITE
BIKE, ONLY - BLACK

TEXT: 3 5/8" E
SYMBOL: 8 1/4" TALL



LEGEND

- ◊ EXISTING SIGN (U-CHANNEL MOUNTED)
- PROPOSED SIGN (U-CHANNEL MOUNTED)
- ▭ PROPOSED CURB PAINTING (YELLOW)



NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNING AND STRIPING PLANS

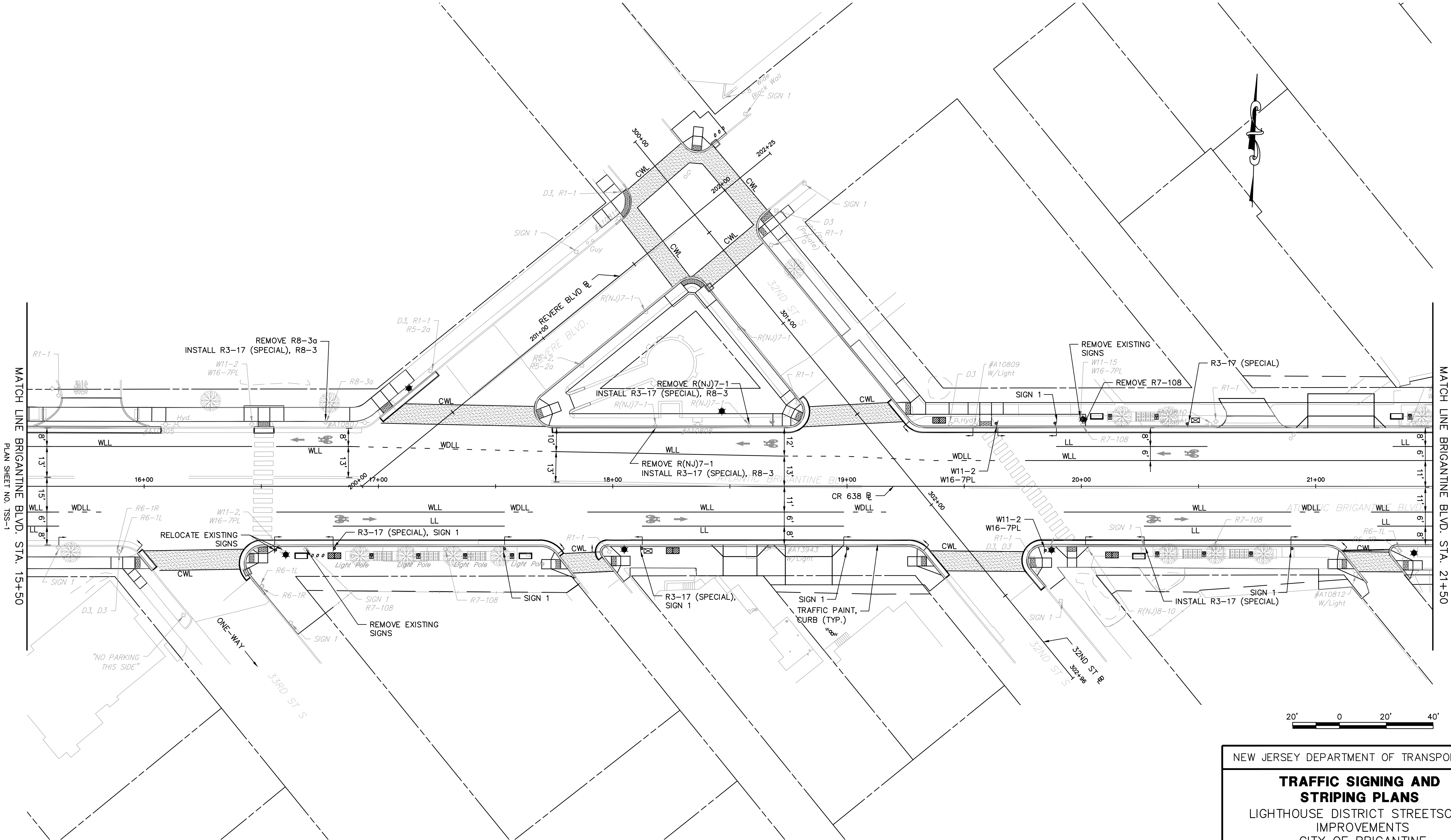
LIGHTHOUSE DISTRICT STREETScape IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.

CERTIFICATION OF AUTHORIZATION NO. 24GA27959500

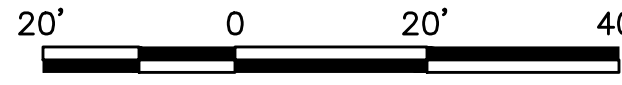
BRIAN W. MAUSER

NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900



MATCH LINE BRIGANTINE BLVD. STA. 15+50
PLAN SHEET NO. TSS-1

MATCH LINE BRIGANTINE BLVD. STA. 21+50
PLAN SHEET NO. TSS-3



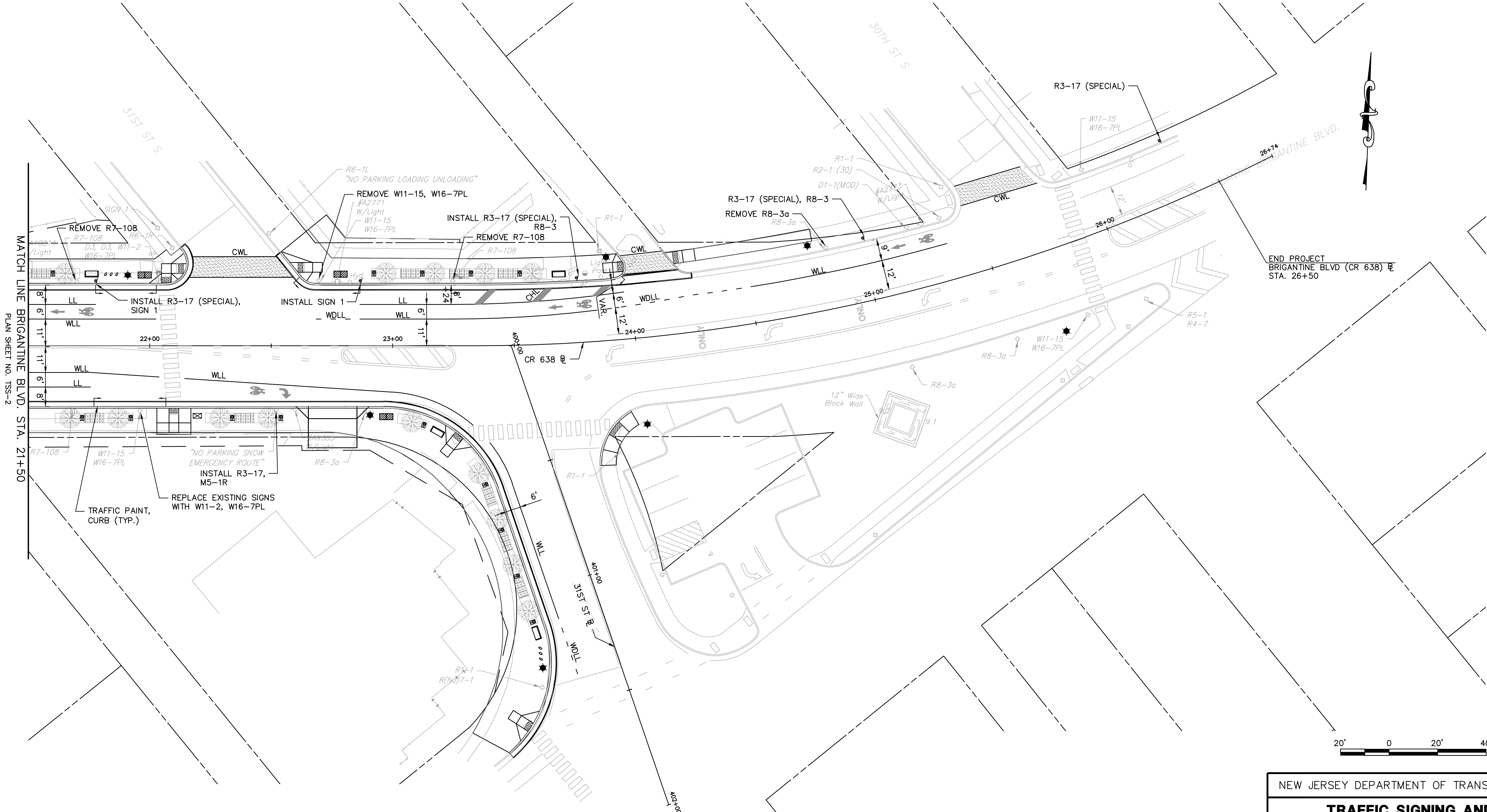
NEW JERSEY DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNING AND STRIPING PLANS

LIGHTHOUSE DISTRICT STREETScape IMPROVEMENTS
CITY OF BRIGANTINE

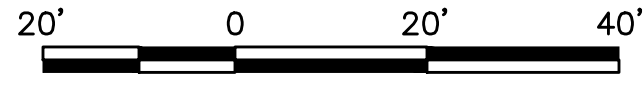
GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

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MATCH LINE BRIGANTINE BLVD. STA. 21+50
PLAN SHEET NO. TSS-2

END PROJECT
BRIGANTINE BLVD (CR 638) @
STA. 26+50



TSS-3
TSS-3

NEW JERSEY DEPARTMENT OF TRANSPORTATION

**TRAFFIC SIGNING AND
STRIPING PLANS**

LIGHTHOUSE DISTRICT STREETScape
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

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ELECTRICAL GENERAL NOTES

1. ALL ELECTRICAL WORK TO BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) ADOPTED BE THE UNIFORM CONSTRUCTION CODE – STATE OF NEW JERSEY AND ANY OTHER PARTY HAVING JURISDICTION.
2. ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THE PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (U.L.) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY UNLESS NOTED OTHERWISE IN THE DRAWINGS.
3. ALL NECESSARY PERMITS, INSPECTIONS, AND LICENSES SHALL BE PROCURED BY THE CONTRACTOR. ALL PERMIT FEES AND INSPECTIONS SHALL BE PAID BY OWNER. SUBMIT TO THE OWNER DUPLICATE CERTIFICATES OF INSPECTION FROM THE APPROVED INSPECTION AGENCY.
4. UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS AND IMPROPER VOLTAGES.
5. PRIOR TO FINAL ACCEPTANCE OF THE WORK, A WRITTEN STATEMENT SHALL BE SUBMITTED TO THE OWNER GUARANTEEING ALL EQUIPMENT AND SYSTEMS AGAINST DEFECTIVE MATERIAL AND WORKMANSHIP FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE. UPON NOTICE ALL DEFECTIVE EQUIPMENT, MATERIALS AND SYSTEMS SHALL BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER.
6. THIS SET OF DRAWINGS IS DIAGRAMMATIC IN NATURE AND INDICATES THE GENERAL ARRANGEMENT OF THE VARIOUS SYSTEMS AND APPROXIMATE LOCATIONS OF THE EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THAT THERE IS ADEQUATE SPACE AT THE LOCATIONS INDICATED FOR ALL EQUIPMENT PRIOR TO INSTALLATION OF SAME. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS IN THE FIELD, PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. BECAUSE DIAGRAMMATIC LAYOUT AND SMALL SCALE OF DRAWINGS, NOT ALL CONDUIT, FIXTURES, DEVICES AND RELATED SPECIALTIES ARE INDICATED. PROVIDE ALL SUCH DEVICES AND SPECIALTIES REQUIRED IN SUCH CASES TO INSURE A COMPLETE AND PROPERLY OPERATING INSTALLATION IN ACCORDANCE WITH CODES AND WITHOUT EXTRA COST TO OWNER.
7. ELECTRICAL CONTRACTOR SHALL SECURE SHOP DRAWINGS FROM OTHER CONTRACTORS AND VERIFY EXACT ELECTRICAL CHARACTERISTICS OF EQUIPMENT TO BE WIRED PRIOR TO ROUGH-IN. IF DISCREPANCIES ARE NOTED BETWEEN THE ELECTRICAL CONTRACT DRAWINGS AND OTHER CONTRACTOR SHOP DRAWING, ELECTRICAL CONTRACTOR IS TO NOTIFY ENGINEER AT ONCE. FAILURE TO PERFORM THIS DUTY WILL NOT RELIEVE THE ELECTRICAL CONTRACTOR OF THE RESPONSIBILITY TO CORRECT WIRING DEFICIENCIES AT NO EXPENSE TO THE OWNER.
8. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE LOCATION OF ALL INDICATED EQUIPMENT WITH OTHER CONTRACTOR PRIOR TO INSTALLATION OF THE ASSOCIATED FEEDERS TO THE EQUIPMENT.
9. ALL DEVICES OR EQUIPMENT SHOWN IN SYMBOL FORM SHALL BE WIRED TO ITS RESPECTIVE PANEL.
10. EACH UNDERGROUND BRANCH CIRCUIT CONDUCTOR, WHERE ACCESSIBLE, SHALL BE IDENTIFIED BY VOLTAGE SYSTEM IN ACCORDANCE WITH THE NEC. COLOR-CODING, TAGGING, OR OTHER AUTHORITY HAVING JURISDICTION APPROVED MEANS SHALL BE POSTED AT EACH PANELBOARD.
11. ALL WIRING, CONNECTIONS AND DEVICES SHALL BE PROVIDED TO COMPLY WITH THE GROUNDING REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND THE DRAWINGS UNLESS NOTED OTHERWISE. ALL EXPOSED NON-CURRENT CARRYING ELECTRICAL EQUIPMENT METALLIC PARTS, RACEWAY SYSTEMS AND WIRING SYSTEM GROUNDING CONDUCTORS SYSTEM SHALL BE GROUNDED.
12. PROVIDE A SEPARATE, GREEN-COLORED, INSULATED EQUIPMENT GROUNDING CONDUCTOR WITHIN EACH FEEDER AND BRANCH CIRCUIT RACEWAY. THIS CONDUCTOR SHALL BE SEPARATE FROM THE ELECTRICAL SYSTEM NEUTRAL CONDUCTOR. TERMINATE EACH END OF THIS GROUNDING CONDUCTOR ON A U.L. LISTED LUG, BUS OR BUSHING. THE GROUNDING CONDUCTOR SIZE SHALL BE IN ACCORDANCE WITH THE NEC.
13. THE ELECTRICAL CONTRACTOR SHALL LABEL WITH PERMANENT MARKER ALL JUNCTION BOXES AND RECEPTACLE OUTLET BOXES WITH CIRCUIT NUMBER AND PANEL IDENTIFICATION.
14. ALL TRENCHING, CUTTING, RESTORATION AND PATCHING REQUIRED FOR THE ELECTRICAL WORK SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
15. PANEL BOARD DIRECTORIES SHALL BE TYPED, AND UPDATED INDICATING NEW CIRCUITING AND DEVICE DESCRIPTION AS SHOWN ON DRAWNGS.
16. ALL COMPONENTS OF EXISTING SYSTEMS REQUIRED TO BE MODIFIED, EXTENDED OR REUSED SHALL BE INSPECTED AND RETURNED TO A FIRST-CLASS OPERATING CONDITION. COMPONENTS SHALL BE CLEANED AND REPAINTED IF NECESSARY.
17. THE ELECTRICAL WORK RELATING TO THE PROJECT IS SHOWN. OTHER EXISTING ELECTRICAL AND SYSTEMS COMPONENTS HAVE BEEN LEFT OFF THE DRAWING FOR CLARITY.
18. ALL EQUIPMENT, DEVICES AND CIRCUITS SHALL BE LABELED ACCORDING TO OWNER REQUIREMENTS.

19. PRIOR TO CONNECTING ANY NEW LOADS TO EXISTING PANEL BOARDS, THE ELECTRICAL CONTRACTOR SHALL VERIFY THE NEW LOADS PLUS THE EXISTING LOADS DO NOT EXCEED THOSE ALLOWED BY THE NEC.
20. ADDITIONAL OR REPLACEMENT CIRCUIT BREAKERS FOR EXISTING PANEL BOARDS SHALL BE OF THE SAME MANUFACTURER AND TYPE, WITH AN EQUAL OR GREATER SHORT CIRCUIT RATING.
21. TWO OR THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP TYPE. SINGLE POLE BREAKERS WITH YOKED HANDLE WILL NOT BE PERMITTED.
22. THE ELECTRICAL CONTRACTOR SHALL NOT UTILIZE A "COMMON NEUTRAL" ON MULTIPLE BRANCH CIRCUITS. EACH SUCH CIRCUIT SHALL BE RUN WITH ITS OWN DEDICATED NEUTRAL WIRE.
23. ALL LOW-VOLTAGE CABLE SHALL BE RUN IN CONDUIT.
24. THE ELECTRICAL CONTRACTOR SHALL ASSURE THAT ANY ELECTRICAL DEVICE OR PRODUCT WHICH IS TO BE RELOCATED OR REUSED IS IN PROPER WORKING CONDITION IN ACCORDANCE WITH INSTRUCTIONS INCLUDED IN ITS LISTING OR LABELING. ANY DEVICE OR PRODUCT FOUND TO BE DEFECTIVE OR DAMAGES SHALL BE REPLACED WITH NEW.
25. SITE VISIT PRIOR TO BID SUBMISSION:
 - A. PRIOR TO BID SUBMISSION, THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS. BIDS AS SUBMITTED WILL BE INTERPRETED TO INCLUDE ALL COSTS AND CHARGES MADE NECESSARY BY EXISTING CONDITIONS.
 - B. ELECTRICAL CONTRACTOR SHALL VERIFY THE SIZE, LOCATION AND ELEVATION OF ALL SERVICES IN THE FIELD AFFECTED BY THIS WORK BEFORE PROCEEDING WITH CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY IN THE EVENT OF EXISTING UTILITIES VARY APPRECIABLY FROM THOSE SHOWN ON DRAWINGS.
26. CIRCUIT BREAKERS USED FOR SWITCHING FLUORESCENT AND HIGH INTENSITY DISCHARGE LIGHTING SHALL BE LISTED AND MARKED WITH "SWD OR "HID", AS APPROPRIATE.
27. WHERE CIRCUIT BREAKERS OR FUSES ARE APPLIED IN COMPLIANCE WITH THE SERIES COMBINATION RATINGS MARKED ON THE EQUIPMENT BY THE MANUFACTURER, THE EQUIPMENT ENCLOSURE(S) SHALL BE LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION DEVICE RATING. THE MARKING SHALL BE READILY VISIBLE AND CONFORM TO THE NEC.
28. CONTRACTOR TO PROVIDE RECEPTACLES TO MATCH PLUGS FURNISHED WITH EQUIPMENT AND/OR LIGHTING FIXTURES.
29. ELECTRICAL CONTRACTOR SHALL FIELD BALANCE ALL ELECTRICAL PANELS.

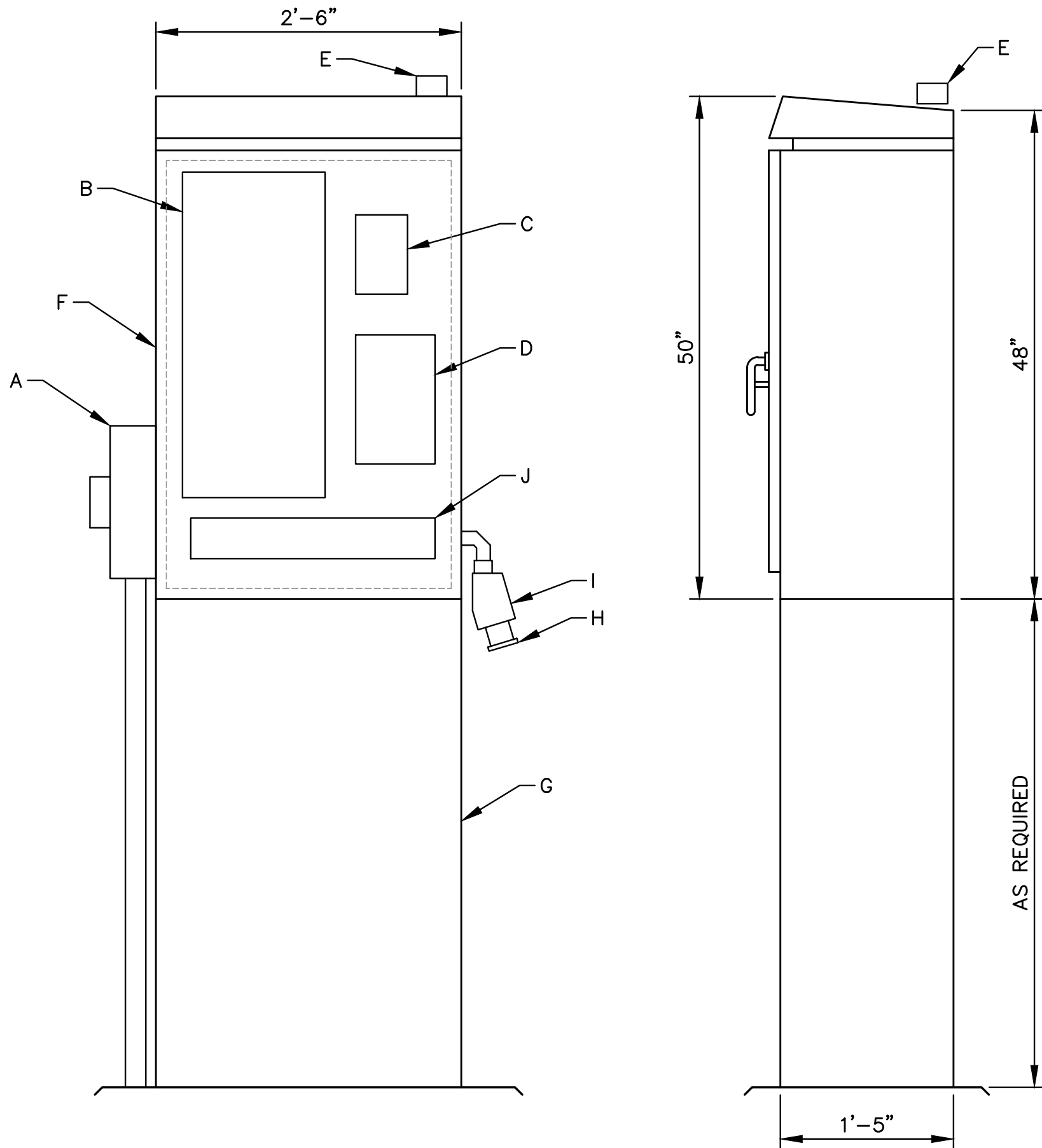
ELECTRICAL LEGEND

	SCHEDULE 80 PVC CONDUIT RUN BELOW SLAB OR GRADE AND STUBBED UP 6" ABOVE FINISHED SLAB WITH RIGID GALVANIZED CONDUIT UNLESS NOTED OTHERWISE
	20A, CFCI RECEPTACLE INSTALLED IN A NEMA 4X, WHILE-IN-USE WEATHERPROOF BOX MOUNTED 18" ABOVE GRADE FOR TREE LIGHTS. WIRE RECEPTACLES THROUGH LIGHTING CONTACTOR. E.C. SHALL COORDINATE ALL RECEPTACLE LOCATIONS WITH THE RE PRIOR TO ROUGH-IN
	LIGHTING LOAD CENTER
A	AMP
ABV	ABOVE
A.F.F	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
C	CONDUIT
CU	COPPER
DP	DISTRIBUTION PANEL
E.C.	ELECTRICAL CONTRACTOR
E	EXISTING TO REMAIN
G.C.	GENERAL CONTRACTOR
GFI	GROUND-FALT INTERRUPTER
GND	GROUND
KW	KILOWATT
M.C.B.	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
N	NEW
NTS	NOT TO SCALE
PNL	PANEL
V	VOLT
TYP	TYPICAL
UGD	UNDERGROUND
WP	WEATHERPROOF BOX WITH "WHILE-IN-USE" COVER

TYPICAL NOTATION

(P1-01-08)

P1 – PANEL NUMBER (CIRCUIT ORIGIN)
01 – CIRCUIT NUMBER
08 – LIGHTING STANDARD NUMBER



METER CABINET, TYPE LIGHTING

N.T.S.

- A. **METER SOCKET AND METER:** METER SOCKET SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS APPROVED BY THE UTILITY COMPANY. METER SHALL BE FURNISHED AND INSTALLED BY THE UTILITY COMPANY. METER SHALL BE SIZED FOR 120/240V SERVICE, 100A, 1-PHASE
- B. **LIGHTING PANELBOARD:** SOLID GROUNDABLE NEUTRAL PANELBOARD WITH (30) 1-POLE SPACES, 100A MCB, SINGLE PHASE 3 WIRE, 240 VAC AS MANUFACTURED BY SQUARE D, CAT. #NQ30L1C14 OR APPROVED EQUAL.
- C. **ELECTRONIC TIME CONTROL:** ASTRONOMIC 365-DAY 1-CIRCUIT ELECTRONIC CONTROL, 120 VAC, SPDT, 30A RATED CONTACTS, NEMA 1 AS MANUFACTURED BY INTERMATIC MODEL #ET90115C OR APPROVED EQUAL.
- D. **LIGHTING CONTACTOR:** ELECTRICALLY OPERATED, ELECTRICALLY HELD WITH (8) POLE, 20A, 120 VAC, NEMA 1 AS MANUFACTURED BY SQUARE D, CAT. #8903LG08V02 OR APPROVED EQUAL.
- E. **PHOTOCELL:** SINGLE POLE, 120V, 1800VA, UTILITY GRADE, LOCKING TYPE.
- F. **LOAD CENTER ENCLOSURE:** SINGLE DOOR WITH PADLOCK DOOR HANDLE, ALUMINUM BACK PANEL, NEMA 4X, 14 GAUGE, 304 STAINLESS STEEL AS MANUFACTURED BY APX ENCLOSURES, INC., CAT. #LS503017S0754X OR APPROVED EQUAL.
- G. **LOAD CENTER RISER BASE:** SHALL BE SUPPLIED BY THE SAME MANUFACTURE AS THE LOAD CENTER ENCLOSURE, WITHOUT TOP OR BOTTOM, AND BE OF SUFFICIENT HEIGHT SO THAT ALL LIVE PARTS ARE INSTALLED AT A MINIMUM ELEVATION OF 2-FEET ABOVE FEMA BASE FLOOD ELEVATION OF 9'-0" N.A.V.D. (1988).
- H. **RECEPTACLE:** WATERTIGHT IEC PIN AND SLEEVE RECEPTACLE, 60A, 250VAC, 3 POLE, 4 WIRE AS MANUFACTURED BY HUBBELL INC., CAT. #HBL460R12W OR APPROVED EQUAL.
- I. **BACK BOX:** METALLIC BACK BOX, 60A, 1½", ANGLED, ALUMINUM AS MANUFACTURED BY HUBBELL INC., CAT. #BB602W OR APPROVED EQUAL.
- J. **WIREWAY:** 4"x4"x24" NEMA 1 WITH CLOSURE PLATES

EL-1
EL-5

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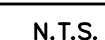
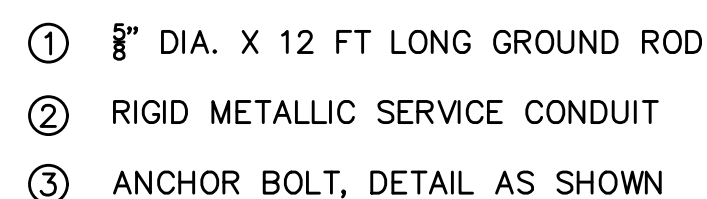
ELECTRICAL PLANS

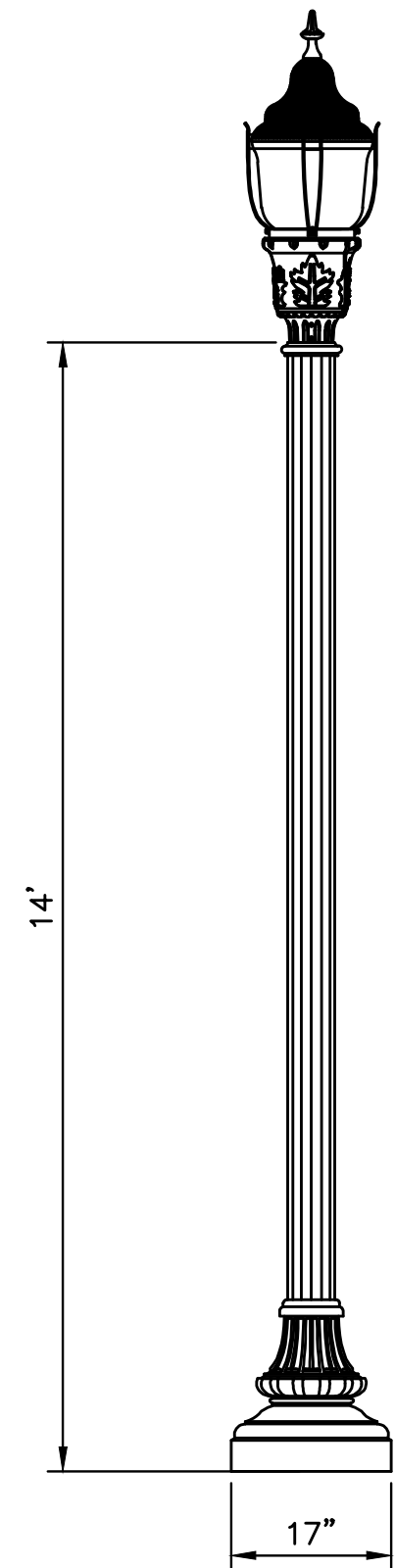
LIGHTHOUSE DISTRICT STREETScape
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSERT
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04847900



LOAD SUMMARY:
11.905 KW/.240 = 49.6A x 1.25 = 62.0A





POLE:
WADSWORTH ALUMINUM POLE (WDA)
BY HOLOPHANE OR APPROVED EQUAL

N.T.S.

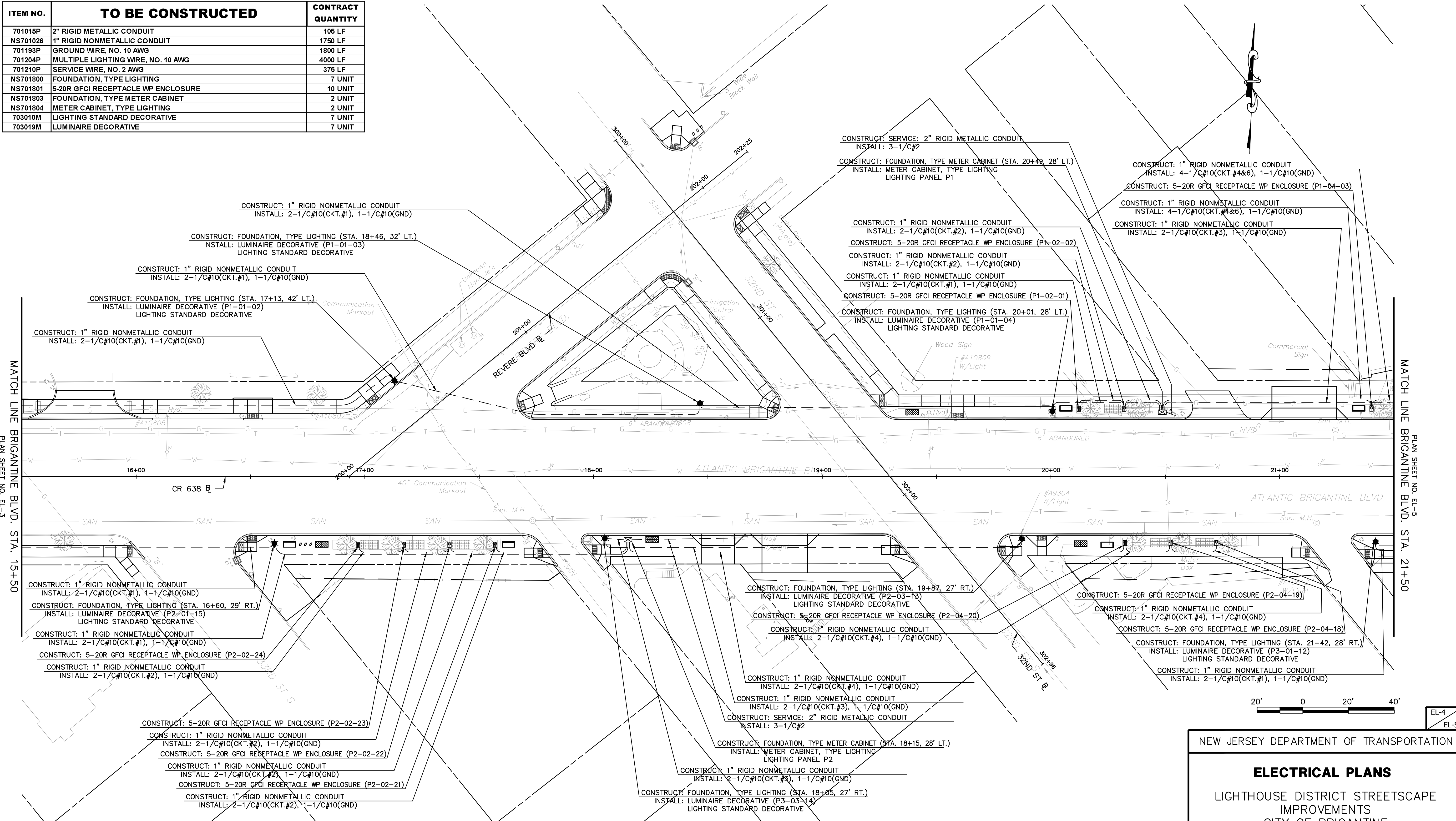
ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
NS701026	1" RIGID NONMETALLIC CONDUIT	100 LF
701193P	GROUND WIRE, NO. 10 AWG	100 LF
701204P	MULTIPLE LIGHTING WIRE, NO. 10 AWG	180 LF
NS701800	FOUNDATION, TYPE LIGHTING	2 UNIT
703010M	LIGHTING STANDARD DECORATIVE	2 UNIT
703019M	LUMINAIRE DECORATIVE	2 UNIT



PLAN SHEET NO. EI-4
MATCH LINE BRIGANTINE BLVD. STA. 15+50

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Maubert
BRIAN W. MAUBERT
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
701015P	2" RIGID METALLIC CONDUIT	105 LF
NS701026	1" RIGID NONMETALLIC CONDUIT	1750 LF
701193P	GROUND WIRE, NO. 10 AWG	1800 LF
701204P	MULTIPLE LIGHTING WIRE, NO. 10 AWG	4000 LF
701210P	SERVICE WIRE, NO. 2 AWG	375 LF
NS701800	FOUNDATION, TYPE LIGHTING	7 UNIT
NS701801	5-20R GFCI RECEPTACLE WP ENCLOSURE	10 UNIT
NS701803	FOUNDATION, TYPE METER CABINET	2 UNIT
NS701804	METER CABINET, TYPE LIGHTING	2 UNIT
703010M	LIGHTING STANDARD DECORATIVE	7 UNIT
703019M	LUMINAIRE DECORATIVE	7 UNIT



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MATCH LINE BRIGANTINE BLVD. STA. 15+50
PLAN SHEET NO. EL-3

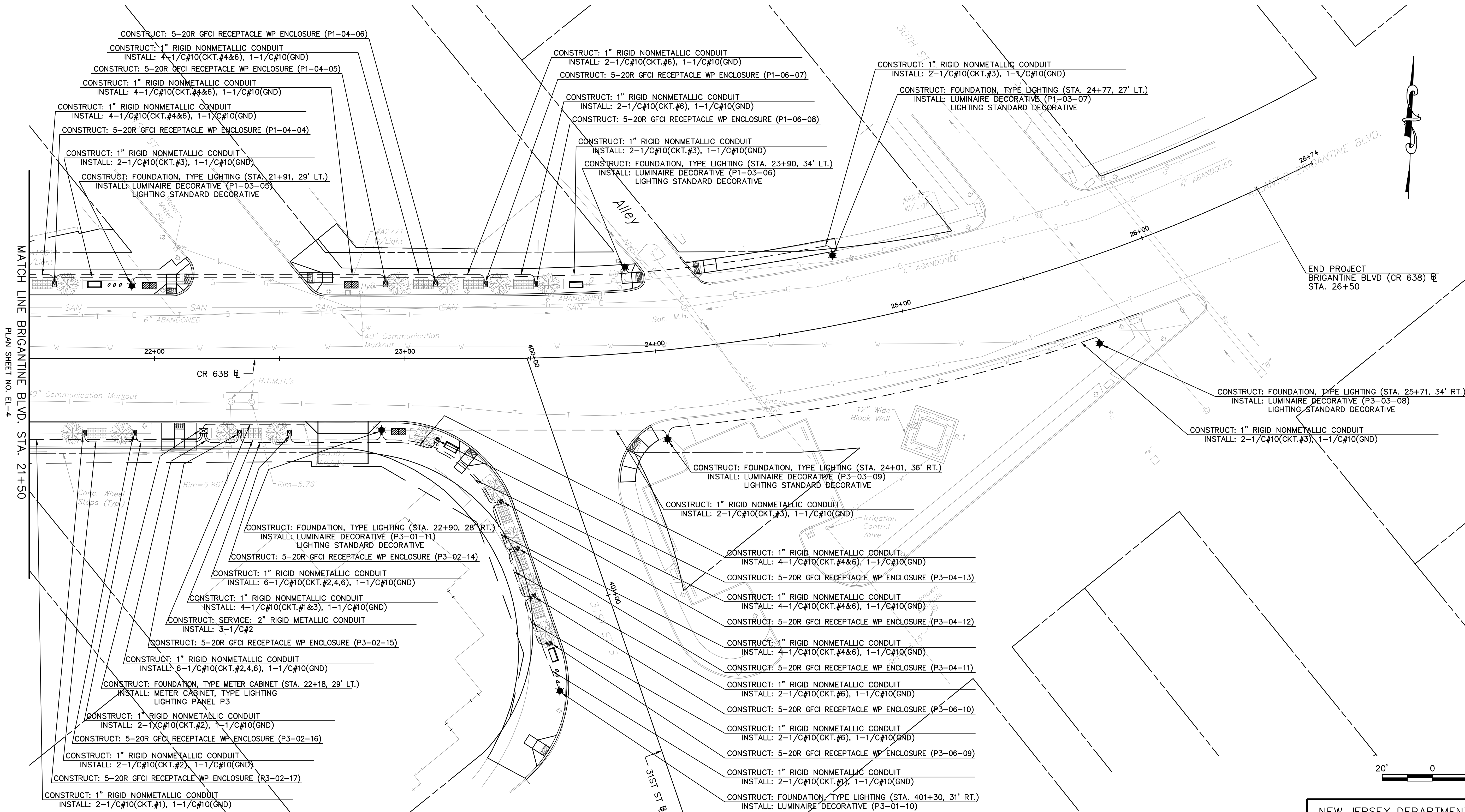
MATCH LINE BRIGANTINE BLVD. STA. 21+50
PLAN SHEET NO. EL-5

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLANS

LIGHTHOUSE DISTRICT STREETScape
IMPROVEMENTS
CITY OF BRIGANTINE

GREENMAN-PEDERSEN, INC.
CERTIFICATION OF AUTHORIZATION NO. 24GA27959500
Brian W. Mausert
BRIAN W. MAUSER
NEW JERSEY PROFESSIONAL ENGINEER LICENSE NO. 24GE04647900



MATCH LINE BRIGANTINE BLVD. STA. 21+50
PLAN SHEET NO. EL-4

END PROJECT
BRIGANTINE BLVD (CR 638) E
STA. 26+50

20' 0 20' 40'

EL-5
EL-5

ITEM NO.	TO BE CONSTRUCTED	CONTRACT QUANTITY
701015P	2" RIGID METALLIC CONDUIT	70 LF
NS701026	1" RIGID NONMETALLIC CONDUIT	1600 LF
701193P	GROUND WIRE, NO. 10 AWG	1600 LF
701204P	MULTIPLE LIGHTING WIRE, NO. 10 AWG	4000 LF
701210P	SERVICE WIRE, NO. 2 AWG	240 LF
NS701800	FOUNDATION, TYPE LIGHTING	7 UNIT
NS701801	5-20R GFCI RECEPTACLE WP ENCLOSURE	14 UNIT
NS701803	FOUNDATION, TYPE METER CABINET	1 UNIT
NS701804	METER CABINET, TYPE LIGHTING	1 UNIT
703010M	LIGHTING STANDARD DECORATIVE	7 UNIT
703019M	LUMINAIRE DECORATIVE	7 UNIT

NEW JERSEY DEPARTMENT OF TRANSPORTATION

ELECTRICAL PLANS

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