

# LORRAINE ROAD, LORRAINE PLACE SHERMAN AVENUE ROAD IMPROVEMENTS

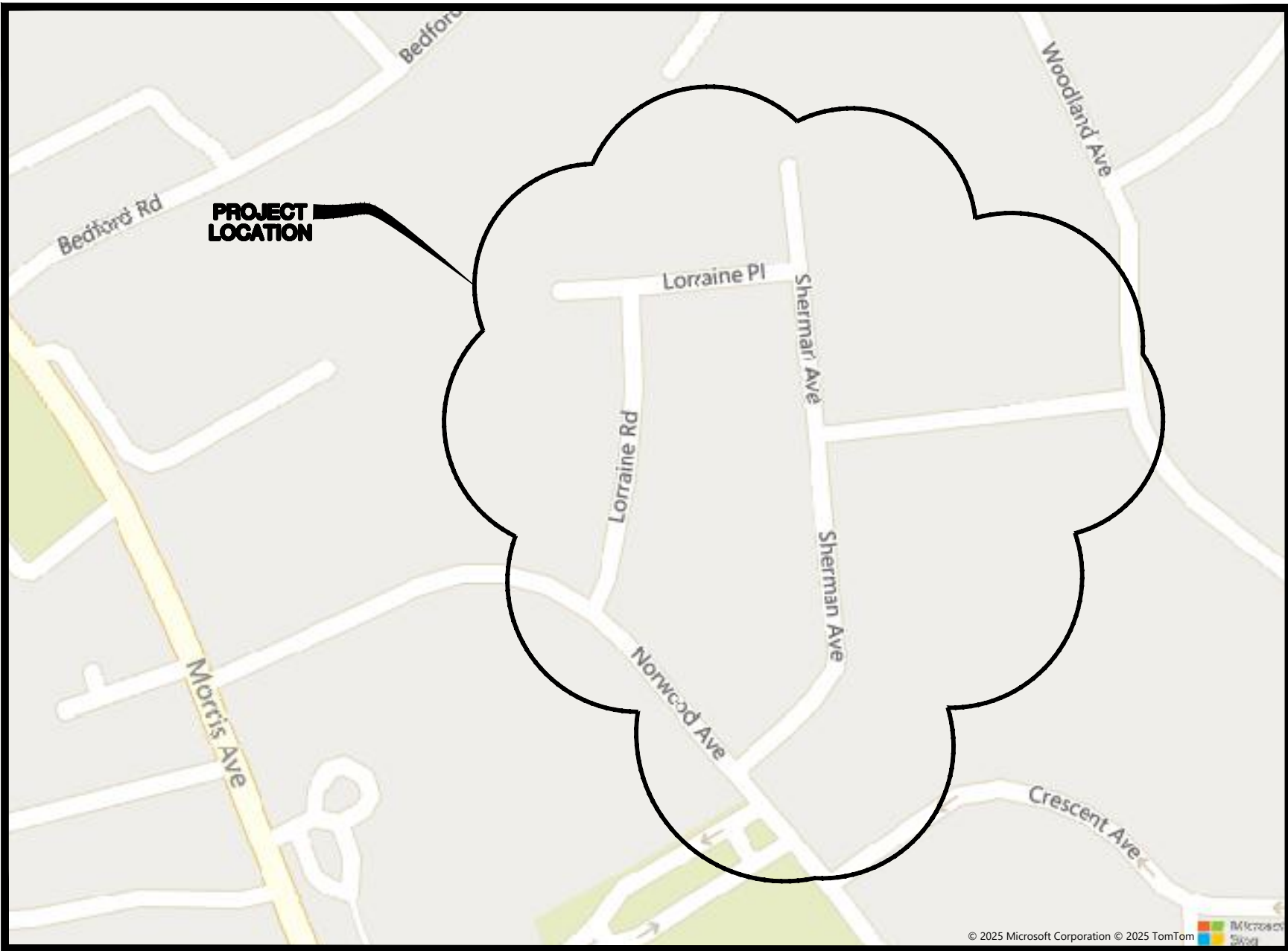
CITY OF SUMMIT

MAYOR  
ELIZABETH FAGAN  
COUNCIL PRESIDENT  
MIKE MCTERNAN  
COUNCIL MEMBERS  
DELIA HAMLET  
MICHELLE KALMANSON  
BOB PAWLOWSKI  
JAMEL BOYER  
CLAIRE TOTH  
KEVIN SMALLWOOD



FUNDING SOURCE:

MUNICIPAL



LOCATION MAP

N.T.S.

THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN.

THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD ROADWAY CONSTRUCTION\TRAFFIC CONTROL\BRIDGE CONSTRUCTION DETAILS" BOOKLET DATED 2007 AND "ELECTRICAL BUREAU STANDARD DETAILS, 2007" AND ALL BASELINE DOCUMENT CHANGES MADE TO THESE CONSTRUCTION DETAILS, SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.



## SHEET INDEX

SHEET #	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES & QUANTITIES
3	LEGEND
4	EXISTING CONDITIONS PLAN
5-7	CONSTRUCTION PLANS
8	ALTERNATE A - CONSTRUCTION PLANS
9-11	UTILITY PLANS
12-15	RAMP DETAILS
16-18	CONSTRUCTION DETAILS
19-21	SOIL EROSION & SEDIMENT CONTROL PLANS
22-23	SOIL EROSION & SEDIMENT CONTROL DETAILS
24	TRAFFIC CONTROL PLAN

## PUBLIC UTILITIES

PUBLIC SERVICE ELECTRIC & GAS COMPANY 48 MIDDLE AVENUE SUMMIT, NJ 07901 908-522-7407
NEW JERSEY AMERICAN WATER 167 JFK PARKWAY SHORT HILLS, NJ 07078 800-652-6987-customer service 800-987-5325
COMCAST CABLEVISION OF NEW JERSEY 800 RAHWAY AVENUE UNION, NJ 07083 732-602-7410 or 1-800-COMCAST
VERIZON 445 GEORGES ROAD NORTH BRUNSWICK, NJ 08902 800-275-2355
JERSEY CENTRAL POWER & LIGHT 300 MADISON AVENUE MORRISTOWN, NJ 07960 800-662-3115
CITY OF SUMMIT DEPT. OF PUBLIC WORKS 41 CHATHAM ROAD SUMMIT, NJ 07901 908-277-9458

CITY OF SUMMIT

UNION COUNTY • NEW JERSEY

RVE

1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

DATE	BY	REVISION	REISSUED FOR REBID	SCALE
9/18/25	SCC/VD			
1	No			

TITLE SHEET

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
CITY OF SUMMIT  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:		SHEET No.:	
03-17-2024		1	of 24
JOB No.:			
2018-T-009			



1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF THE CONSTRUCTION, ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
2. LOCATION OF EXISTING UTILITIES ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION.
3. THE CONTRACTOR SHALL USE EXCAVATED MATERIALS FOR BACKFILL UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ALL PAVED AND CONCRETE AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF CONSTRUCTION.
5. ALL GRASSED OR WOODED AREAS DISTRIBUTED DURING CONSTRUCTION SHALL BE TOPSOILED AND SEEDDED.
6. ALL FILL SHALL BE PLACED IN 12" LAYERS AND THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PRESERVATION OF THE UNDERGROUND AND SURFACE UTILITIES AND STRUCTURES AT OR ADJACENT TO THE SITE OF CONSTRUCTION AND IT SHALL BE AT HIS OWN EXPENSE TO REPAIR OR REPLACE ANYTHING THAT HE DAMAGES.
8. BASELINES HAVE BEEN PROVIDED ON THE PLANS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE BASELINE AS SHOWN ON THE PLAN.
9. APPROXIMATE DEPTH OF ALL WATER MAIN IS  $\pm 4$  FEET.
10. APPROXIMATE DEPTH OF ALL GAS MAIN IS  $\pm 3$  FEET.
11. ALL CONSTRUCTION DETAILS NOT SHOWN SHALL BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS AS DETAILED IN:

- "STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL/BRIDGE CONSTRUCTION DETAILS."
- "NJDOT STANDARD ELECTRICAL DETAILS: 2007."

INCLUDING ALL APPLICABLE BASELINE DOCUMENT CHANGES AND APPENDICES. THESE DETAILS MAY BE PURCHASED THROUGH THE N.J.D.O.T. PLANS AND SPECIFICATION CENTER AT:

1035 PARKWAY AVENUE,  
TRENTON, NEW JERSEY  
08625-0600  
(TELEPHONE: 1-609-530-2098)

3. RECONSTRUCTION OF EXISTING MANHOLES AND INLETS, INCLUDING CONCRETE CAPS AND OTHER NECESSARY MODIFICATIONS, TO ACCOMMODATE NEW INLET CONSTRUCTION, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR INLETS AND MANHOLES OF THE VARIOUS KINDS.
13. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
14. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
15. TRAFFIC CONTROL INCLUDING ALL DEVICES SHALL BE PAID UNDER "MAINTENANCE AND PROTECTION OF TRAFFIC", AND SHALL BE IN ACCORDANCE WITH THE MOST CURRENT M.U.T.C.D AND N.J.D.O.T. DETAILS.
16. MANHOLE CASTINGS THAT ARE TO BE RESET SHALL BE RESET 1/4" LOWER THAN THE PROPOSED PAVEMENT ELEVATION.
17. SEPARATE PAYMENT WILL NOT BE MADE FOR STEEL TREE ROOT PROTECTION PLATES, BUT PAYMENT SHALL BE MADE AS THE UNIT PRICE BID FOR CONCRETE CURB.
18. ALL GRASS AND WOODED AREAS DISTURBED DURING CONSTRUCTION SHALL BE BACKFILLED AS DIRECTED.
19. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN ALL EXISTING CONCRETE CURB NOT SHOWN TO BE REMOVED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COMPLETE REMOVAL AND REPLACEMENT OF ANY DAMAGED CURB NOT DOCUMENTED PRIOR TO THE START OF CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
20. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE 2019 STATE AID SUPPLEMENTAL SPECIFICATION AS MODIFIED SHALL GOVERN THIS PROJECT.
21. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS.
23. THE CONTRACTOR MUST OBTAIN AND PAY FOR COUNTY ROAD OPENING PERMIT FOR ALL WORK WITHIN THE COUNTY RIGHT-OF-WAY. ALL COSTS ASSOCIATED WITH PERMIT ACQUISITION SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
24. CONTRACTOR IS RESPONSIBLE TO ENSURE POSITIVE DRAINAGE ALONG ALL ROADWAYS TO BE RESURFACED. THE CONTRACTOR SHALL PROVIDE ELEVATIONS AT ALL DEPRESSED CURB LOCATIONS ASSOCIATED WITH THE ADA RAMPS TO ENSURE POSITIVE DRAINAGE ADJACENT TO THE RAMP AND AT OTHER LOCATIONS AS DIRECTED BY THE ENGINEER. SEPARATE PAYMENT WILL NOT BE MADE FOR PROVIDING PROPOSED ELEVATIONS BUT ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
25. THE CONTRACTOR SHALL REMOVE, RESET OR REPLACE ALL ROOF DRAINS FROM THE CURB/GUTTER LINE TO THE RIGHT-OF-WAY LINE DISTURBED DURING CONSTRUCTION OR AS DIRECTED BY THE ENGINEER. SEPARATE PAYMENT WILL NOT BE MADE BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
26. THE ELECTRONIC VERSION OF THE 2019 NEW JERSEY DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EFFECTIVE SEPTEMBER 1, 2019, AS REFERENCED IN BASELINE DOCUMENT CHANGE ANNOUNCEMENT BDC19S-01, UNLESS MODIFIED WITHIN THE TECHNICAL SPECIFICATIONS OF THIS CONTRACT, SHALL GOVERN.
27. CONTRACTOR SHALL RESTORE ALL EXISTING FEATURES DISTURBED DURING CONSTRUCTION (I.E. MAILBOXES, IRRIGATION SYSTEMS, LANDSCAPING, ETC.). ALL COSTS SHALL BE INCLUDED IN THE PRICE BID FOR CLEARING SITE.
28. THE CONTRACTOR SHALL ANTICIPATE GROUND WATER INFILTRATION INTO ALL OF THE COMBINED SEWER/STORM SEWER PIPES, INLETS AND MANHOLES WHEN PERFORMING THE VARIOUS TASKS ASSOCIATED WITH THIS PROJECT. ALL COSTS ASSOCIATED WITH THE TEMPORARY BYPASS PUMPING AND OR DEWATERING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
29. ALL UTILITY WORK SHALL BE CONSTRUCTED TO ALLOW UNINTERRUPTED SERVICE TO ADJACENT PROPERTIES.
30. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN STORM SEWER AND ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED UTILITY WORK, SERVICES AND LATERALS.
31. THE TRENCH LIMIT OF DISTURBANCE WITHIN THE ASPHALT ROADWAY SHALL BE LIMITED TO A 4' WIDTH PER UTILITY TRENCH. THE LAY DOWN AREA FOR THE EXCAVATED MATERIAL SHALL BE IMMEDIATELY ADJACENT TO THE TRENCH AND SHALL BE ISOLATED TO THE ASPHALT ROADWAY. TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL BASE PAVING SHALL BE COMPLETED EACH FRIDAY FOR ALL WORK COMPLETED THAT WEEK.
32. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE PAVED CARTWAY FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEEP CONDITION AND OR AS DIRECTED BY THE ENGINEER.
33. THE ELEVATION OF THE EXISTING WATER MAIN AS DEPICTED ON THE DRAWINGS IS ASSUMED. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING WATER MAIN AND LOCATION OF ALL SERVICE CONNECTION DURING CONSTRUCTION.
34. IF REQUIRED, PROVIDE A SEPARATE TRAFFIC CONTROL/DETOUR PLAN FOR WORK IN EACH ROAD SEGMENT AND INTERSECTION. ALL PLANS SHALL BE APPROVED BY OWNER AND COUNTY (FOR ANY WORK IN COUNTY R.O.W.) PRIOR TO IMPLEMENTATION.
35. ALL UTILITY CROSSINGS/OFFSETS SHALL INCLUDE COMPACTED STABILIZATION MATERIAL FOR FULL LENGTH OF CROSSING.

37. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. ANY ERRORS OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
38. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHORING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL REGARDLESS OF DEPTH.
39. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN MILLING AND CONSTRUCTION OF PAVEMENT TO PROVIDE POSITIVE FLOWING STORMWATER. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
40. ALL WORK TO BE COORDINATED WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
41. ALL PEDESTRIAN ACCESS TO SIDEWALKS AND STREETS, INCLUDING CROSSWALKS, CURB RAMP, STREET FURNISHINGS, PEDESTRIAN SIGNALS, PARKING AND OTHER COMPONENTS OF PEDESTRIAN ACCESS PROPOSED IN THE RIGHT-OF-WAY ARE TO BE IN COMPLIANCE WITH ADA & ABA ACCESSIBILITY GUIDELINES AND THE CURRENT PUBLIC RIGHTS-OF-WAY GUIDELINES PROPOSED BY THE ARCHITECTURAL AND TRANSPORTATION BARRIERS COMPLIANCE BOARD (ACCESS BOARD).
42. INLETS, AND ALL OTHER UTILITY ACCESS PANELS AND VAULTS, SHALL NOT BE LOCATED WITHIN PUBLIC SIDEWALK CURB RAMPS. CONTRACTOR SHALL ADJUST CURB RAMP LOCATIONS IN THE FIELD WITH THE APPROVAL OF THE ENGINEER TO ACCOMMODATE RECENT UTILITY RELOCATIONS.
43. PAYMENT FOR OBSTRUCTION REMOVAL SUCH AS TREE ROOTS AND EXISTING INFRASTRUCTURE WHICH MAY INTERFERE WITH THE PROPOSED CONSTRUCTION, SHALL BE INCLUDED IN THE ITEM "CLEARING SITE".
44. CONTRACTOR IS RESPONSIBLE FOR REPLACING ALL DAMAGED AND NON-REFLECTIVE STREET NAME, REGULATION AND WARNING SIGNS PER M.U.T.C.D. STANDARDS TO BE PAID FOR UNDER REGULATORY AND WARNING SIGN (IF & WHERE DIRECTED) AND GUIDE SIGN, TYPE GA, BREAKAWAY SUPPORTS (IF & WHERE DIRECTED).
45. A MINIMUM OF ONE (1) FOOT OF PAVING SHALL BE REMOVED AROUND THE PERIMETER OF ALL MANHOLE AND INLET CASTINGS TO ENSURE A MINIMUM OF TWO (2) INCHES OF SURFACE COURSE IS PROVIDED AROUND THEM. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "HOT MIX ASPHALT 12.5M64 SURFACE COURSE".
46. SEPARATE PAYMENT FOR THE RESETTLE OR EXTENSION, AND REPLACEMENT OF EXISTING ROOF DRAINS OR SUMP PUMP DRAINS, AS REQUIRED, WILL NOT BE MADE BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
47. SEPARATE PAYMENT WILL NOT BE MADE FOR RESETTLE EXISTING UTILITY METERS, VALVE BOXES, VENTS, CLEANOUTS AND SPRINKLER HEADS REQUIRED FOR THE CONSTRUCTION BEYOND THE ROADWAY CARTWAY. HOWEVER, ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
48. ALL TREE REMOVALS ARE TO BE VERIFIED BY THE ENGINEER PRIOR TO REMOVAL. ALL TREE PLANTINGS ARE APPROXIMATE WITH FINAL LOCATIONS TO BE ESTABLISHED IN THE FIELD.
49. THE CONTRACTOR SHALL UTILIZE A QUALIFIED ARBORIST FOR ALL TREE TRIMMINGS.
50. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS.
51. ALL INLETS SHALL HAVE TRAPS SUITABLE FOR PREVENTING FLOATING DEBRIS FROM ENTERING THE SEWER LINE AND FOR CREATING AN EFFECTIVE WATER SEAL.
52. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE SUMMIT POLICE DEPARTMENT 72 HOURS PRIOR TO THE START OF ANY WORK AND SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITHIN 30 DAYS OF THE DAY THE PROJECT IS AWARDED TO CONTRACTOR.
53. NO SEPARATE PAYMENT SHALL BE MADE FOR FLAGGERS. ALL COSTS FOR FLAGGERS SHALL BE INCLUDED IN VARIOUS ITEMS IN THE BID PROPOSAL.
54. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION. THE CONTRACTOR SHALL INSTALL AND MAINTAIN DENSE GRADED AGGREGATE OR HOT MIX ASPHALT TO PROVIDE A RIDING SURFACE FOR VEHICLE ACCESS TO EACH PROPERTY. NO SEPARATE PAYMENT SHALL BE MADE FOR MAINTAINING ACCESS TO DRIVEWAYS. ALL DRIVEWAY ACCESS COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
55. THE ROAD IS TO BE PROOF ROLLED AFTER MILLING IS COMPLETED BUT BEFORE FINAL PAVING. PROOF ROLLING MUST BE COMPLETED WITH A LOADED DUMP TRUCK IN THE PRESENCE OF THE ENGINEER OR PROJECT INSPECTOR. ALL COSTS ASSOCIATED WITH PROOF ROLLING SHALL BE INCLUDED IN BID ITEM FOR MILLING.
56. THE CONTRACTOR SHALL LEAVE THE MILLED ROAD UNPAVED FOR AT LEAST 48 HOURS AND SHALL PROOF ROLL PRIOR TO PAVING. THE CONTRACTOR SHALL INSTALL HOT MIX ASPHALT BASE COURSE AS A TEMPORARY SURFACE IN AREAS DEEMED NECESSARY BY THE ENGINEER. NO SEPARATE PAYMENT SHALL BE MADE FOR TEMPORARY PAVEMENT. ALL TEMPORARY PAVEMENT COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT.
57. ALLOWABLE HOURS OF WORK ARE 8:00 AM TO 4:30 PM. THE CONTRACTOR SHALL MAKE PROVISIONS FOR MATERIAL AND EQUIPMENT STORAGE. THE CONTRACTOR SHALL COORDINATE THE STORAGE OF MATERIAL AND EQUIPMENT WITH THE ENGINEER AND THE POLICE DEPARTMENT. ALL COSTS FOR MATERIAL AND EQUIPMENT STORAGE SHALL BE INCLUDED IN THE BID ITEM "MOBILIZATION".
58. ALL TRAFFIC CONTROL AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE M.U.T.C.D. AND MUNICIPAL TRAFFIC ORDINANCES. THE CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE POLICE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. TRAFFIC CONTROL PLANS SHALL INCLUDE AT A MINIMUM, THE FOLLOWING SITUATIONS: 1)ROAD CLOSED, 2)LANE CLOSED, SHOULDER CLOSED. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL ON THE PROJECT. ALL REQUESTS FOR POLICE SERVICE FROM THE CITY SHALL BE SUBMITTED 72 HOURS BEFORE BEGINNING CONSTRUCTION OPERATIONS THAT REQUIRE POLICE SERVICES. CONTRACTOR MUST NOTIFY POLICE DEPARTMENT OF CANCELLATIONS 24 HOURS IN ADVANCE OR WILL BE SOLELY RESPONSIBLE FOR A MINIMUM CHARGE OF (4) HOURS. THE CITY OF SUMMIT WILL PAY THE COST OF POLICE SERVICES DIRECTLY TO THE OFFICERS HIRED FOR THE SCHEDULED TIMES.
59. NO HOUSE LEADER DRAINS ARE TO BE INSTALLED UNDER DRIVEWAY APRONS OR THROUGH DROP CURBS. ANY COST ASSOCIATED WITH THE RECONSTRUCTION OR EXTENDING OF EXISTING CURB DAYLIGHTS SHALL BE INCLUDED IN THE BID ITEM FOR "GRANITE CURB".
60. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL UTILITIES TO RAISE OR LOWER MANHOLES, METERS, VALVES, ETC. TO GRADE AS WORK PROGRESSES. ALL COSTS FOR COORDINATION WITH UTILITY COMPANIES SHALL BE INCLUDED IN THE BID ITEM "UTILITY COORDINATION". THE LOCATIONS OF SUBSURFACE UTILITIES ARE APPROXIMATE AND ARE SHOWN FOR ILLUSTRATIVE PURPOSES. THE CONTRACTOR IS RESPONSIBLE TO CALL FOR A MARK OUT OF UNDERGROUND UTILITIES PRIOR TO THE START OF CONSTRUCTION.
61. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT/RESTORATION OF ANY SIDEWALK, CURB OR PAVEMENT WHICH IS DAMAGED DURING CONSTRUCTION. ALL REPLACEMENT/RESTORATION MUST BE COMPLETED BEFORE ACCEPTANCE OF THE PROJECT BY THE CITY AT NO ADDITIONAL COST.
62. THE CONTRACTOR IS RESPONSIBLE TO PROTECT ALL TREES WITHIN THE PROJECT DURING CONSTRUCTION, UNLESS OTHERWISE NOTED HEREIN. DAMAGE TO EXISTING TREES WILL BE EVALUATED BY THE CITY FORESTER. THE PROJECT SPECIFICATIONS IMPOSES A PENALTY OF \$500 PER INCIDENT OF DAMAGE TO ANY TREE. ALL COSTS RELATED TO TREE PROTECTION ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". ANY EXISTING TREES WHICH ARE COMPROMISED DURING EXCAVATION FOR CURB INSTALLATION SHALL BE EVALUATED BY THE CITY FORESTER, AND IF DEEMED APPROPRIATE, SHALL BE REMOVED BY THE CONTRACTOR.
63. THE CONTRACTOR IS RESPONSIBLE TO REPLACE/RESET ANY SPRINKLERS AND DOG FENCING DAMAGED/DISTURBED DURING CONSTRUCTION. THE COST FOR REPAIR/RESET SPRINKLERS AND DOG FENCING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PROPERTY OWNERS FOR THE LOCATION OF THE SPRINKLERS AND DOG FENCES PRIOR TO THE START OF WORK.
64. ALL COSTS ASSOCIATED WITH THE RESETTLE OR REPLACEMENT OF ANY WALKWAYS OR DRIVEWAY APRONS CONSTRUCTED OF GRANITE BLOCK, BRICK, BRICK PAVERS, STONE, SLATE, ETC. SHALL BE INCLUDED IN THE BID ITEM FOR "CONCRETE SIDEWALK." NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION

RECONSTRUCTION OR RESETTING OF CURB ALONG THE SIDES OF A DRIVEWAY LEADING TO THE SIDEWALK WHERE CURBING CURRENTLY EXISTS.

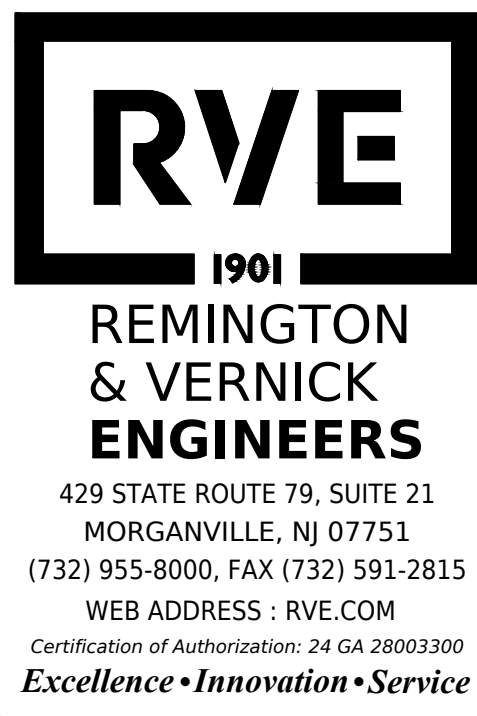
65. NO SEPARATE PAYMENT SHALL BE MADE FOR THE EXCAVATION OF UNCLASSIFIED MATERIAL BEHIND THE CURB. ALL COSTS ASSOCIATED WITH THE REMOVAL OF ANY EXISTING MATERIAL BEHIND THE PROPOSED CURB SHALL BE INCLUDED IN THE BID ITEM "GRANITE BLOCK CURB".
66. NO SEPARATE PAYMENT SHALL BE MADE FOR THE INSTALLATION AND MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES. ALL COSTS ARE TO BE INCLUDED IN THE BID ITEM "MOBILIZATION". INLET FILTERS SHALL BE INSTALLED AT ALL EXISTING OR NEW CATCH BASINS AND SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED AND THE SURFACE COURSE IS INSTALLED. ALL COSTS ASSOCIATED WITH INLET PROTECTION SHALL BE INCLUDED IN THE BID ITEM "INLET FILTERS, TYPE 2."
67. SHOP DRAWINGS ARE TO BE SUBMITTED AT A MINIMUM OF THREE (3) WEEKS PRIOR TO CONSTRUCTION FOR ALL PROPOSED DRAINAGE STRUCTURES, SIGNS & POSTS, ANY CONCRETE FOOTINGS. ALL DRAINAGE STRUCTURES AND FOOTINGS MUST BE DESIGNED BY A NEW JERSEY PROFESSIONAL ENGINEER. ALL SHOP DRAWINGS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER.
68. SITE SURVEY PROVIDED BY STONEFIELD ENGINEERING & DESIGN [(201) 340-4468].
69. ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION FOR THE IMPROVEMENTS SHOWN SHALL BE IN ACCORDANCE WITH THE NEW JERSEY DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019" AND ALL APPLICABLE AMENDMENTS.
70. ALL REGULATORY, WARNING, AND GUIDE SIGNS, AS WELL AS STREET NAME SIGNAGE, WITHIN PROJECT LIMITS ARE TO BE REPLACED WITH NEW PLAQUES AND POSTS, UNLESS NOTED OTHERWISE.
71. ANY PROPOSED PAVEMENT THICKNESS NOTED HEREIN SHALL BE POST-COMPACTION, UNLESS OTHERWISE NOTED.
72. ANY AND ALL PROPOSED CURB RAMPS MUST MEET CURRENT ADA AND NJDOT STANDARDS. ANY EXISTING NON-CONFORMING CURB RAMPS MUST BE BROUGHT TO CONFORMANCE.

ENVIRONMENTAL COMMITMENTS:

1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM WATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.
4. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS) ARE PROHIBITED IN THE ENVIRONMENTALLY SENSITIVE AREA OR GREEN ACRES ENCUMBERED PROPERTIES.
5. IF CONTACT WITH THE NORTHERN LONG-EARED BAT IS MADE DURING MAINTENANCE OPERATION, CONSULTATION WITH USFWS AND BEPR WILL BE REQUIRED.

BASE BID		UNITS	PLAN QUANTITY		BID QUANTITY
DESCRIPTION	PLAN		QUANTITY		
				Bid Items	
1	Inlet Filter, Type 2, 4' x 4'	UN	7	0	7
2	Silt Fence	LF	4,000	0	4,000
3	Traffic Cones	UN	80	0	80
4	Drums	UN	80	0	80
5	Construction Signs	SF	112	0	112
6	Mobilization	LS	1	0	1
7	Utility Coordination	LS	1	0	1
8	Asphalt Adjustment	Dollar	4,000	0	4,000
9	Fuel Adjustment	Dollar	4,000	0	4,000
10	Clearing Site	LS	1	-	1
11	HMA Milling, 2" Average Depth	SY	6,186	0	6,186
12	Hot Mix Asphalt, Mix 9.5M64 Surface Course, 2" Thick	TNS	725	0	725
13	Base Repair (As Directed)	SY	0	929	929
14	Tack Coat	GAL	619	0	619
15	Polymerized Joint Adhesive	LF	205	0	205
16	Granite Block Curb complete with all items per plan detail	LF	130	590	720
17	Concrete Sidewalk, 4" Thick complete with all items per plan detail	SY	165	0	165
18	Driveway Repair (As Directed)	SY	0	50	50
19	Detectable Warning Surface	SY	12	0	12
20	Remove & Replace 8" HDPE Sewer Main (Including Sewer Lateral Connections)	LF	1,725	0	1,725
21	Replace Existing inlet grates with Bicycle Safe Grates	UN	7	0	7
22	Replace Existing Type 'B' inlet head piece with Type 'N' Eco headpiece	UN	7	0	7
23	Remove & Replace 4' Diameter Sanitary Manhole	UN	11	0	11
24	Street Signs	UN	5	0	5
25	Traffic Markings, Thermoplastic	SF	500	0	500
26	Traffic Stripes 4" Wide, Reflective Epoxy, Yellow	LF	410	0	410
27	Traffic Stripes 4" Wide, Reflective Epoxy, White	LF	130	0	130
28	Topsoil, Seed, Lime, & Fertilizer	SY	165	0	165
29	Regulatory Warning Signs	SF	48	0	48
30	Test Pits	CY	70	0	70
31	9" x 18" Concrete Curb complete with all items per plan detail	LF	180	0	180

Alternate A		UNITS	PLAN QUANTITY		BID QUANTITY
	DESCRIPTION		Alternate Bid Items	As Directed	
A1	Traffic Cones	UN	20	0	20
A2	Drums	UN	20	0	20
A3	Construction Signs	SF	48	0	48
A4	Mobilization	LS	1	0	1
A5	Asphalt Adjustment	Dollar	1,000	0	1,000
A6	Fuel Adjustment	Dollar	1,000	0	1,000
A7	Clearing Site	UN	1	0	1
A8	HMA Milling, 2" Average Depth	SY	1,140	0	1,140
A9	Hot Mix Asphalt, Mix 9.5M64 Surface Course, 2" Thick	TNS	134	0	134
A10	Base Repair (As Directed)	TNS	0	114	114
A11	Tack Coat	GAL	114	0	114
A12	Polymerized Joint Adhesive	LF	35	0	35
A13	Concrete Sidewalk, 4" Thick complete with all items per plan detail	SY	5	0	5
A14	Concrete Driveway Apron, 6" Thick complete with all items per plan detail	SY	15	0	15
A15	9" x 18" Concrete Curb complete with all items per plan detail	LF	20	100	120
A16	Traffic Markings, Thermoplastic	SF	160	0	160
A17	Traffic Stripes 4" Wide, Reflective Epoxy, Yellow	LF	200	0	200
A18	Regulatory Warning Sign	SF	32	0	32
A19	Topsoil, Seed, Lime, & Fertilizer	SY	15	0	15
A20	Detectable Warning Surface	SY	2	0	2
A21	Silt Fence	LF	1,075	0	1,075



DATE: 9/18/25

**TERENCE M. VOGT**

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

---

**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56522

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PROJECT WILL BE DONE AT THE USER'S SOLE RISK WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

[illegible]

# GENERAL NOTES & QUANTITIES

CITY OF SUMMIT

---

LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT      UNION COUNTY      NEW JERSEY

<u>DRAWN BY :</u> DRB	<u>DESIGN BY :</u> JF	<u>CHECKED BY :</u> TV	<u>SCALE :</u> AS NOTED
<u>DATE :</u> 03-17-2024		<u>SHEET No. :</u> 2 of 24	
<u>JOB No. :</u> 2018-T-009			



# STANDARD LEGEND

NOTE: ALL SYMBOLS MAY NOT BE USED

ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED	ITEM	DESCRIPTION	EXISTING	PROPOSED			
SURVEY	OVERHEAD WIRE			SURVEY	BENCHMARK LOCATION			SITE & ROADWORK	EDGE OF PAVEMENT					
	SANITARY FORCE MAIN PIPE				CROWS FOOT				CURB					
	STORM SEWER PIPE ≤12"				AERIAL TARGET				PAVEMENT / CONC. / SIDEWALK					
	STORM SEWER PIPE > 12"				CONCRETE MONUMENT									
	GAS SERVICE				PK / MAG NAIL / DRILL HOLE / SPIKE									
	SANITARY SEWER PIPE ≤12"				DRILL HOLE W/ WINGS									
	SANITARY SEWER PIPE > 12"				STAKE									
	ELECTRIC SERVICE				HUB									
	FIBER OPTIC SERVICE				PIN W/ CAP									
	TELEPHONE SERVICE				IRON PIPE									
	COMMUNICATIONS SERVICE				IRON PIN									
	IRRIGATION PIPE				CROSS CUT									
	WATER SERVICE				DISK									
	WATER SHUT-OFF				STONE									
	WATER METER				REBAR									
	WATER VALVE				BASELINE									
	WATER HYDRANT				CENTERLINE									
	WELL				EASEMENT									
	YARD HYDRANT				RIGHT-OF-WAY									
	METER PIT				PROPERTY BOUNDARY									
	GAS SHUT-OFF				ADJACENT PROPERTY BOUNDARY									
	GAS METER				RAILROAD TRACKS									
	GAS VALVE				STATE BOUNDARY									
	GAS LINE MARKER				MUNICIPAL / COUNTY BOUNDARY									
	CLEANOUT				ENVIRONMENTAL	BORING LOCATION				ABBREVIATIONS	APR. APRON	EL. ELEVATION	PERF. PERFORATED	SWL SINGLE WHITE LINE
	SEWER VENT					MONITORING WELL LOCATION					ASS ASBESTOS CEMENT PIPE	EX. EXISTING	PC POINT OF CURVATURE	SYL SINGLE YELLOW LINE
	INLET TYPE A					TEST PIT LOCATION					AFF ABOVE FINISHED FLOOR	FFE FINISH FLOOR ELEVATION	PI POINT OF INFLECTION	TBA TO BE ABANDONED
	INLET TYPE B					FRESHWATER WETLAND FLAG					ASS ASBESTOS	FT FEET	PT POINT OF TANGENCY	TBR TO BE REMOVED
	INLET TYPE E					FRESHWATER WETLAND LINE					AL ALUMINUM	E.B.W.B. EASTBOUND, WESTBOUND, N.B.S.B. NORTHBOUND, SOUTHBOUND	PSI POUNDS PER SQUARE INCH	TC TOP OF CURB
	AREA DRAIN					FRESHWATER WETLAND BUFFER					BL BASELINE	GL GUTTER LINE	PK PARKER KAYLON MASONRY NAIL	TEL TELEPHONE
	MANHOLES					EDGE OF WATER					BM BENCH MARK	GR GRATE	PROP. PROPOSED	TEMP. TEMPORARY
						STREAM CENTERLINE					BIT. BITUMINOUS	GALV. GALVANIZED	PVC POLYVINYL CHLORIDE PIPE	TYP. TYPICAL
											BLDG. BUILDING	HW HEADWALL	PVC POINT OF VERTICAL CURVATURE	UD UNDERDRAIN
	HEADWALL										BGS BELOW GROUND SURFACE	HDPE HIGH DENSITY POLYETHYLENE PIPE	PVI POINT OF VERTICAL INTERSECTION	UP UTILITY POLE
	HEADWALL W/ WINGS										CL CENTERLINE	INV. INVERT	PVT POINT OF VERTICAL TANGENCY	V VOLTS
	IRRIGATION CONTROL VALVE										CIP CAST IRON PIPE	IP IRON PIN	R RADIUS	VAR VARIES
LANDSCAPING	IRRIGATION BOX			LANDSCAPING	GRASS/SOD			ABBREVIATIONS	RCR REINFORCED CONCRETE PIPE	WM WATER METER	RMC RIGID METALLIC CONDUIT			
	IRRIGATION CONTROL BOX				DECIDUOUS TREE				CULV. CULVERT	LSA LANDSCAPED AREA	R.O.W. RIGHT OF WAY			
	SPRINKLER HEAD				SHRUBS / BUSH				CS CARBON STEEL	LF LINEAR FEET	R.R. RAILROAD			
	UNKNOWN VALVE				EVERGREENS				CF CUBIC FEET	LST LANDSCAPE TIE	RTE. ROUTE			
	COMMUNICATIONS PEDESTAL				STUMP				CY CUBIC YARDS	LMT LIMIT OF MILLING	SAN. SANITARY			
	COMMUNICATIONS LINE MARKER				WOODS / TREE LINE				CMU CONCRETE MASONRY UNIT	LMP LIMIT OF PAVING	SS STAINLESS STEEL			
	TELEPHONE PEDESTAL				WIRE FENCE				D.C. DEPRESSED CURB	MB MAILBOX	SWK SIDEWALK			
	TELEPHONE LINE MARKER				SPLIT RAIL FENCE				DH DRILL HOLE	MAX. MAXIMUM	SHD STATE HIGHWAY DEPARTMENT			
	ELEC. BOX				WOOD / VINYL FENCE				DIA. DIAMETER	MIN. MINIMUM	SHLD. SHOULDER			
	ELEC. METER				CHAIN-LINK FENCE				DIP DUCTILE IRON PIPE	MH MANHOLE	STY. STORY			
	ELEC. TRANSFORMER PAD								DWY DRIVEWAY	NO. NUMBER	STA. STATION			
	ELEC. VAULT								DYL DOUBLE YELLOW LINE	N.T.S. NOT TO SCALE				
GRADING	ELEC. LINE MARKER			GRADING	TOP OF BANK / DITCH			DRAWING NOMENCLATURE REPRESENTATION						
	UTILITY POLE				BOTTOM OF BANK / DITCH									
	GUY ANCHOR				CONTOUR (MAJOR)									
	ELEC. OUTLET				CONTOUR (MINOR)									
	LIGHTS				FLOW LINE / SWALE									
	VENT				TIME OF CONCENTRATION									
	VENT PIPE				SPOT GRADE									
					ROADWAY GRADE									

1901

REMINGTON & VERNICK ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56522

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

**RVE**

1901

**REMINGTON & VERNICK ENGINEERS**

429 STATE ROUTE 79, SUITE 21

MORGANVILLE, NJ 07751

(732) 955-8000, FAX (732) 591-2815

WEB ADDRESS : RVE.COM

Certification of Authorization: 24 GA 28003300

**Excellence • Innovation • Service**

DATE: 9/18/25

**TERENCE M. VOGT**

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

**MOSTAFA RAZZAGHMANESH**

NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISION	DATE	BY	CHK
1	9/18/25	SCC	UD

**LEGEND**

CITY OF SUMMIT

LORRAINE ROAD, LORRAINE PLACE

SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT

UNION COUNTY

NEW JERSEY

<u>DRAWN BY :</u>	<u>DESIGN BY :</u>	<u>CHECKED BY :</u>	<u>SCALE :</u>
DRB	JF	TV	AS NOTED
<u>DATE :</u>		<u>SHEET No.</u>	
03-17-2024		3 of 3	
<u>JOB No. :</u>			
2018-T-009			

3 of 24



N.J.P.C.S. NAD 1983

RVE

1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM

Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK  
ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF  
SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT  
INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE  
BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT  
OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT  
WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC  
PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND  
WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON  
& VERNICK ENGINEERS AND AFFILIATES. AND OWNER  
SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS,  
DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR  
RESULTING THEREFROM.

NO.	REVISION	DATE	BY
1	REISSUED FOR REDO	9/18/25	SCC/VD

EXISTING CONDITIONS PLAN

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
NEW JERSEY

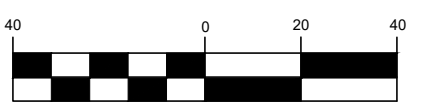
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:			SHEET No.:
03-17-2024			4 of 24
JOB No.:			2018-T-009

NOTE:

INFORMATION SHOWN WAS TAKEN FROM A PLAN ENTITLED  
"MAP OF SURVEY OF LORRAINE ROAD, LORRAINE PLACE &  
SHERMAN AVENUE, CITY OF SUMMIT, COUNTY OF UNION,  
STATE OF NEW JERSEY" DATED 4/9/2024 AND PREPARED  
BY THOMAS F. MILLER, NEW JERSEY LAND SURVEYOR  
NO. 24GS03626400, LICENSED PROFESSIONAL LAND SURVEYOR  
NEW JERSEY CERTIFICATE OF AUTHORIZATION NO. 24GA226184500.

ALL INFORMATION SHOWN MUST BE VERIFIED PRIOR TO USE  
FOR CONSTRUCTION ACTIVITIES.

GRAPHIC SCALE



1 inch = 40 ft.

RI OCK 1902

BLOCK 1902





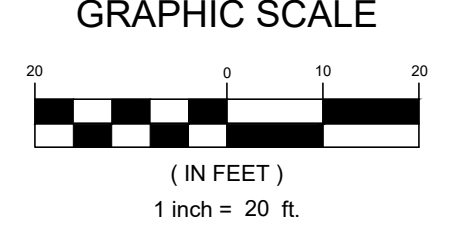
429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM

TERENCE M. VOGT

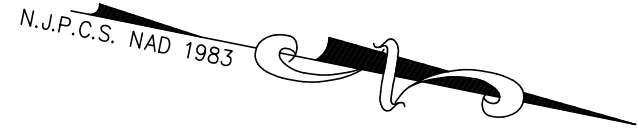
OSTAFA RAZZAGHMANESH

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT OWNED OR REPRESENTED TO BE SUITABLE FOR REUSE BY ANY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNER AND USER SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

LORRAINE ROAD, LORRAINE PLACE







CONSTRUCT:  
40 LF - POLYMERIZED JOINT ADHESIVE

CONSTRUCT:  
1 UN - STREET SIGNS

CONSTRUCT:  
45 SY - CONCRETE SIDEWALK, 4" THICK  
4 SY - DETECTABLE WARNING SURFACE  
45 SY - TOPSOIL, SEED, LIME & FERTILIZER  
40 LF - 9"x18" CONCRETE CURB

CONSTRUCT:  
120 SF - TRAFFIC MARKINGS, THERMOPLASTIC  
100 LF - TRAFFIC STRIPES 4" WIDE, REFLECTIVE EPOXY, YELLOW  
16 SF - REGULATORY WARNING SIGNS

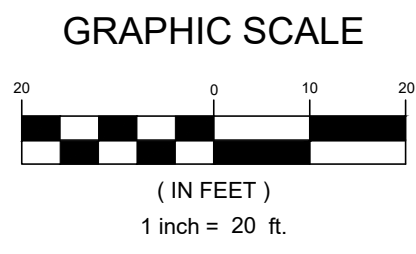
CONSTRUCT:  
1,855 SY - HMA MILLING, 2" AVERAGE DEPTH  
217 TONS - HMA, MIX 9.5M64 SURFACE COURSE, 2" THICK  
185 GAL - TACK COAT

REMOVE & REPLACE:  
2 UN - EXISTING INLET GRATES WITH BICYCLE SAFE GRATES  
2 UN - EXISTING TYPE 'B' INLET HEAD PIECE WITH TYPE N ECO HEADPIECE

NORWOOD AVENUE  
(50' ROW)

SHERMAN AVENUE  
(50' ROW)

MATCHLINE STA. 5+50  
SEE SHEET 7



RVE

1901

REMINGTON & VERNICK ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHK
1	REISSUED FOR REBID	9/18/25	SCC	VD

CONSTRUCTION PLAN

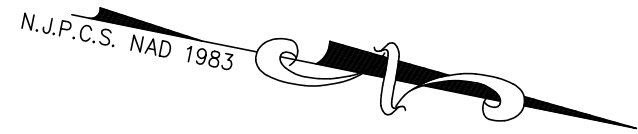
CITY OF SUMMIT

LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

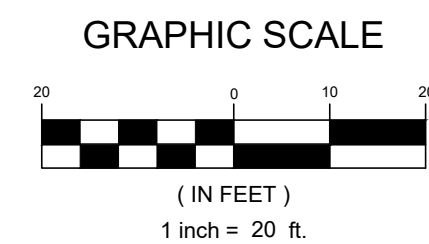
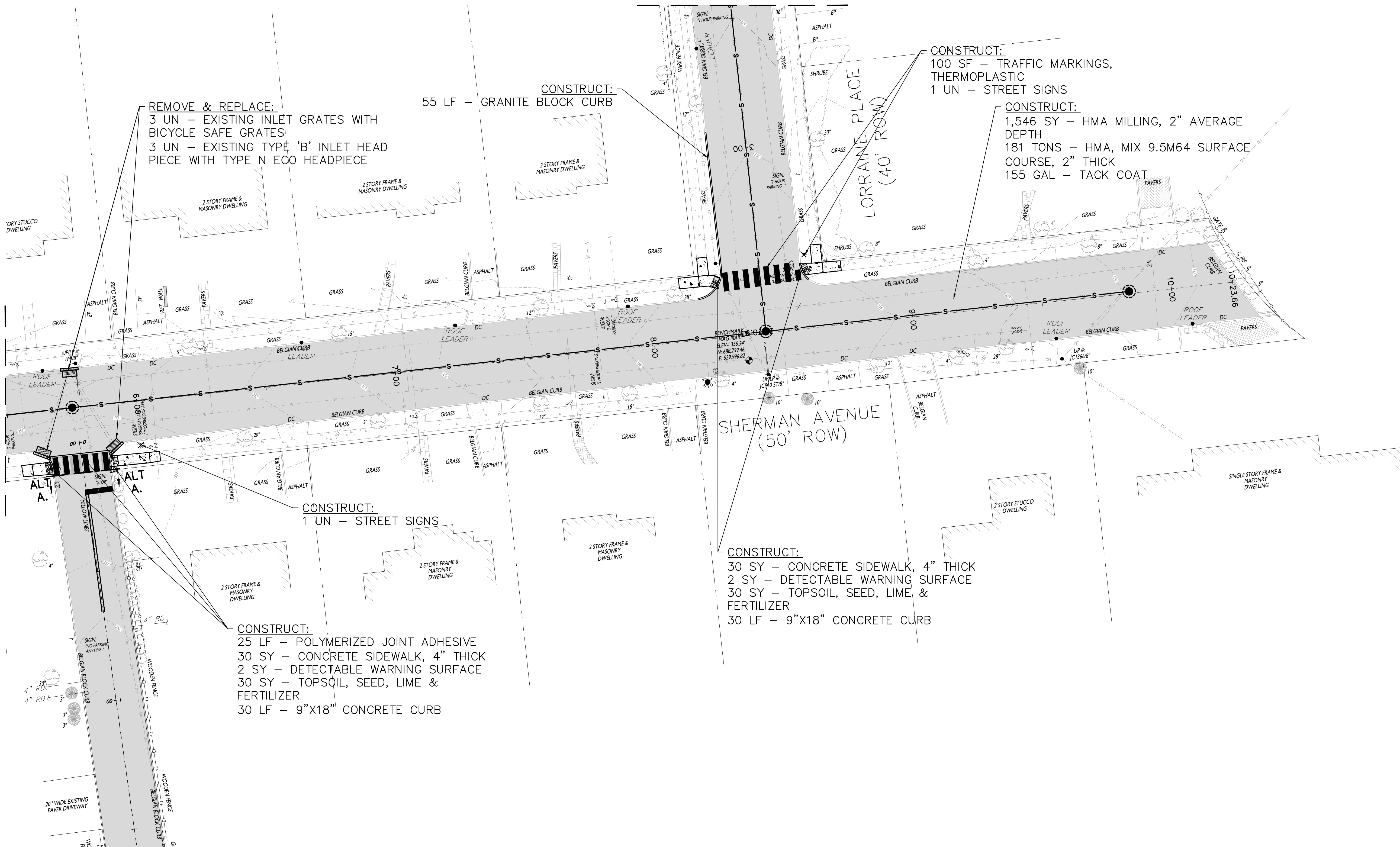
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:		SHEET No.:	
03-17-2024		6	of 24
JOB No.:			
2018-T-009			





MATCHLINE STA. 5+50  
SEE SHEET 6

MATCHLINE STA. 2+65  
SEE SHEET 5



**RVE**  
1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
*Excellence • Innovation • Service*

DATE: 9/18/25

**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56522

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY
1	REISSUED FOR REBID	9/18/25	SCC/LVD

**CONSTRUCTION PLAN**

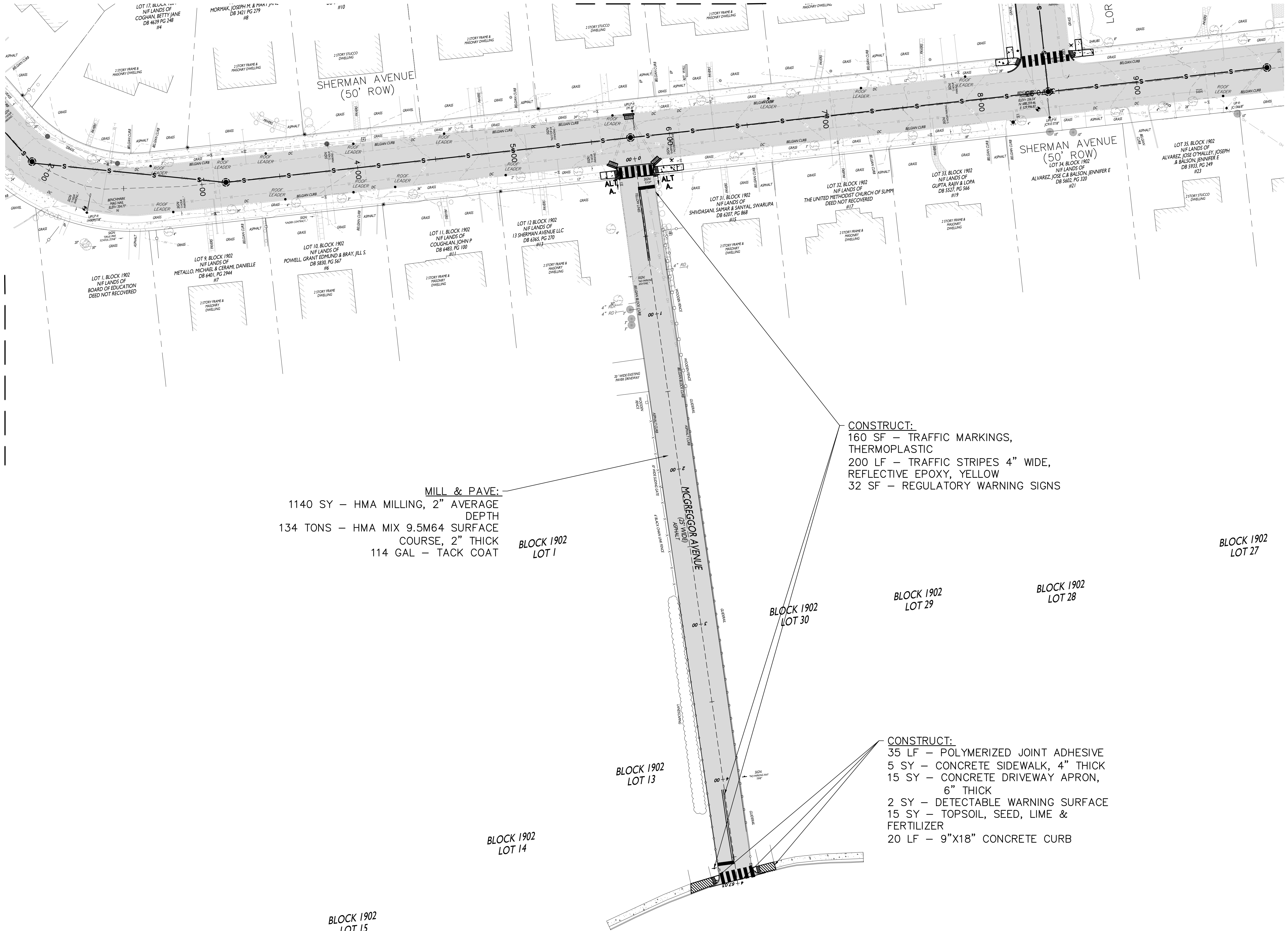
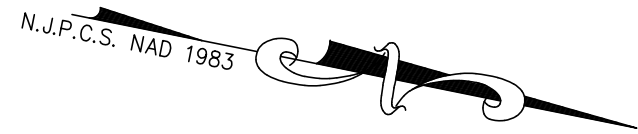
CITY OF SUMMIT

LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:		SHEET No.:	
03-17-2024		7	of 24
JOB No.:			
2018-T-009			

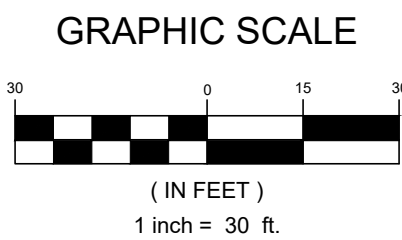




**CONSTRUCT:**  
160 SF — TRAFFIC MARKINGS,  
THERMOPLASTIC  
200 LF — TRAFFIC STRIPES 4" WIDE,  
REFLECTIVE EPOXY, YELLOW  
32 SF — REGULATORY WARNING SIGNS

**MILL & PAVE:**  
1140 SY — HMA MILLING, 2" AVERAGE  
DEPTH  
134 TONS — HMA MIX 9.5M64 SURFACE  
COURSE, 2" THICK  
114 GAL — TACK COAT

**CONSTRUCT:**  
35 LF — POLYMERIZED JOINT ADHESIVE  
5 SY — CONCRETE SIDEWALK, 4" THICK  
15 SY — CONCRETE DRIVEWAY APRON,  
6" THICK  
2 SY — DETECTABLE WARNING SURFACE  
15 SY — TOPSOIL, SEED, LIME &  
FERTILIZER  
20 LF — 9"x18" CONCRETE CURB



**RVE**  
1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
**Excellence • Innovation • Service**

DATE: 9/18/25

**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. NO. 33773

DATE: 9/18/25

**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. NO. 56622

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK  
ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF  
SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT  
INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE  
BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT  
OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT  
WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC  
PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND  
WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON  
& VERNICK ENGINEERS AND AFFILIATES. AND OWNER  
SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS,  
DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR  
RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHK
1		9/18/25	SCG	VD
	REISSUED FOR REBID			

ALTERNATE A -  
CONSTRUCTION PLAN

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY: DRB  
DESIGN BY: JF  
CHECKED BY: TV  
SCALE: AS NOTED

DATE: 03-17-2024  
JOB NO.: 2018-T-009

8 of 24



DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56522

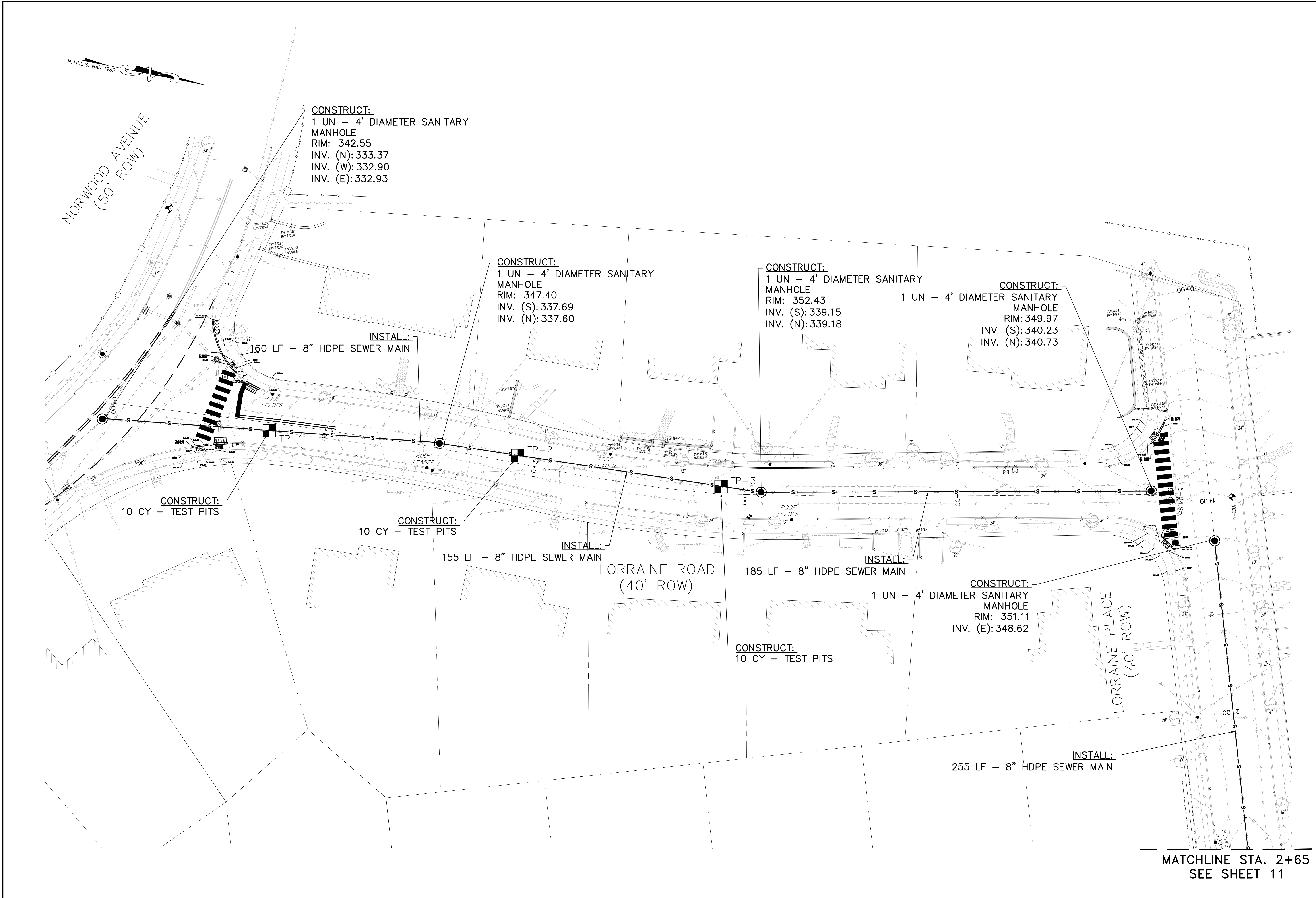
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISION	DATE	BY
1	9/18/25	SCG/VD
2	9/18/25	SCG/VD
3	9/18/25	SCG/VD
4	9/18/25	SCG/VD
5	9/18/25	SCG/VD
6	9/18/25	SCG/VD
7	9/18/25	SCG/VD
8	9/18/25	SCG/VD
9	9/18/25	SCG/VD
10	9/18/25	SCG/VD
11	9/18/25	SCG/VD
12	9/18/25	SCG/VD
13	9/18/25	SCG/VD
14	9/18/25	SCG/VD
15	9/18/25	SCG/VD
16	9/18/25	SCG/VD
17	9/18/25	SCG/VD
18	9/18/25	SCG/VD
19	9/18/25	SCG/VD
20	9/18/25	SCG/VD

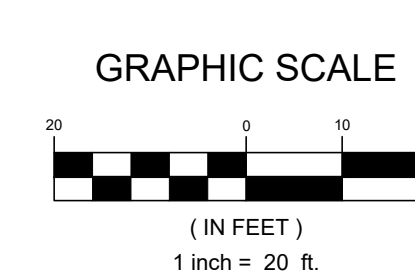
**UTILITY PLAN**

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
CITY OF SUMMIT  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:	SHEET No.		
03-17-2024	9 of 24		
JOB No.:	2018-T-009		

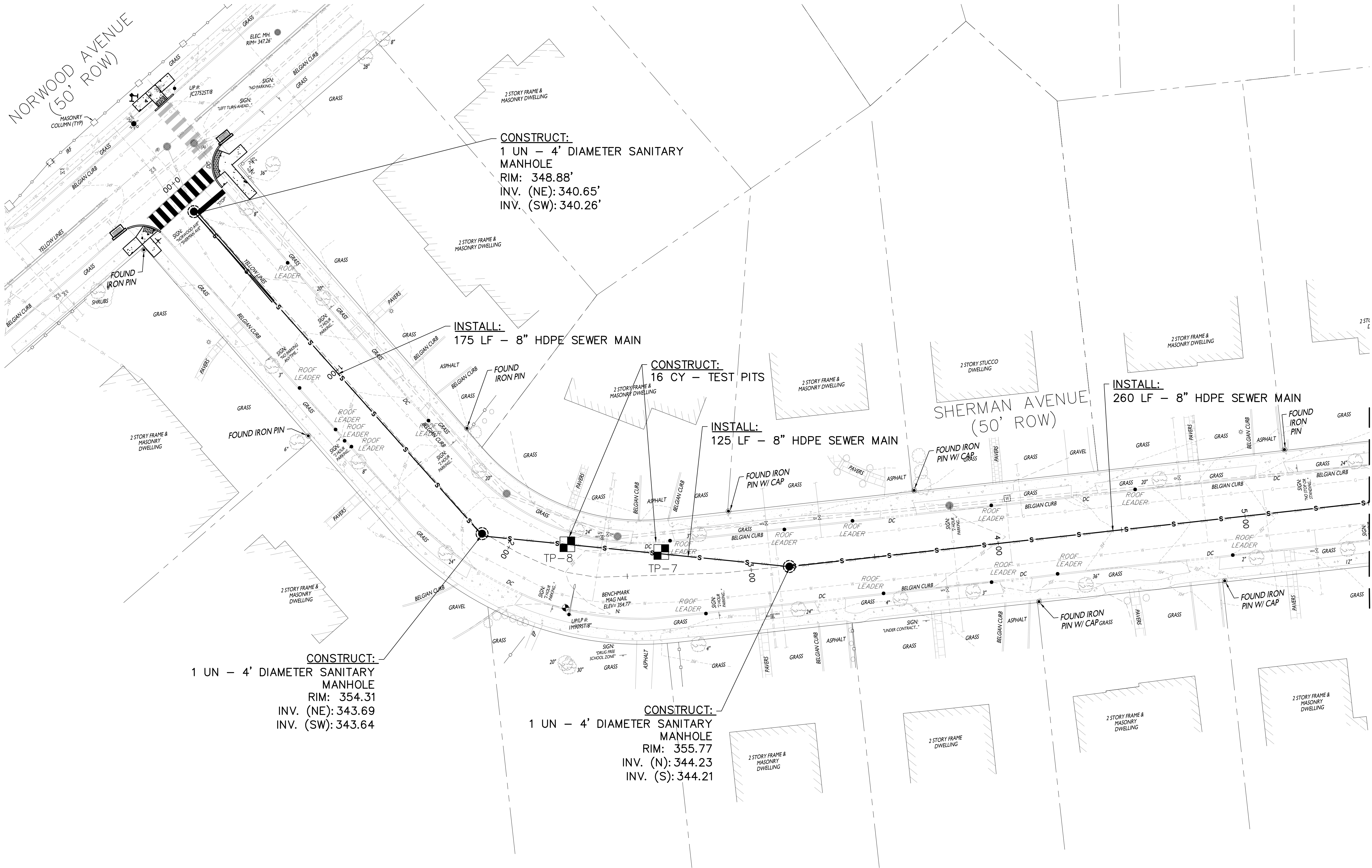


MANHOLE SCHEDULE						
MH NO.	DESCRIPTION	RIM EL.	INVERTS	STATIONING	ALIGNMENT	
1.	4' DIAMETER SANITARY MANHOLE	342.55'	INV. (N): 333.37', INV. (W): 332.9', INV. (E): 332.93'	STA. 0+00	LORRAINE ROAD	
2.	4' DIAMETER SANITARY MANHOLE	347.40'	INV. (N): 337.60', INV. (S): 337.69'	STA. 1+54	LORRAINE ROAD	
3.	4' DIAMETER SANITARY MANHOLE	352.43'	INV. (N): 339.18', INV. (S): 339.15'	STA. 3+07	LORRAINE ROAD	
4.	4' DIAMETER SANITARY MANHOLE	349.97'	INV. (N): 340.73', INV. (S): 340.23'	STA. 4+91	LORRAINE ROAD	
5.	4' DIAMETER SANITARY MANHOLE	351.11'	INV. (E): 348.62'	STA. 1+19	LORRAINE PLACE	





NORWOOD AVENUE  
(50' ROW)



CONSTRUCT:  
1 UN - 4' DIAMETER SANITARY  
MANHOLE  
RIM: 354.31  
INV. (NE): 343.69  
INV. (SW): 343.64

CONSTRUCT:  
1 UN - 4' DIAMETER SANITARY  
MANHOLE  
RIM: 355.77  
INV. (N): 344.23  
INV. (S): 344.21

INSTALL:  
175 LF - 8" HDPE SEWER MAIN

CONSTRUCT:  
16 CY - TEST PITS

INSTALL:  
125 LF - 8" HDPE SEWER MAIN

INSTALL:  
260 LF - 8" HDPE SEWER MAIN

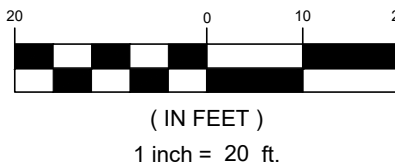
MATCHLINE STA. 5+50  
SEE SHEET 11

SHERMAN AVENUE  
(50' ROW)

### MANHOLE SCHEDULE

MH NO.	DESCRIPTION	RIM EL	INVERTS	STATIONING	ALIGNMENT
11.	4' DIAMETER SANITARY MANHOLE	348.88'	INV. (NE) = 340.65', INV. (SW) = 340.26'	STA. 0+14	SHERMAN AVENUE
12.	4' DIAMETER SANITARY MANHOLE	354.31'	INV. (NE) = 343.69', INV. (SW) = 343.64'	STA. 1+88	SHERMAN AVENUE
13.	4' DIAMETER SANITARY MANHOLE	355.77'	INV. (N) = 344.23', INV. (S) = 344.21'	STA. 3+15	SHERMAN AVENUE

GRAPHIC SCALE



**RVE**  
1901  
**REMINGTON & VERNICK ENGINEERS**  
429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
*Excellence • Innovation • Service*

DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. NO. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. NO. 56622

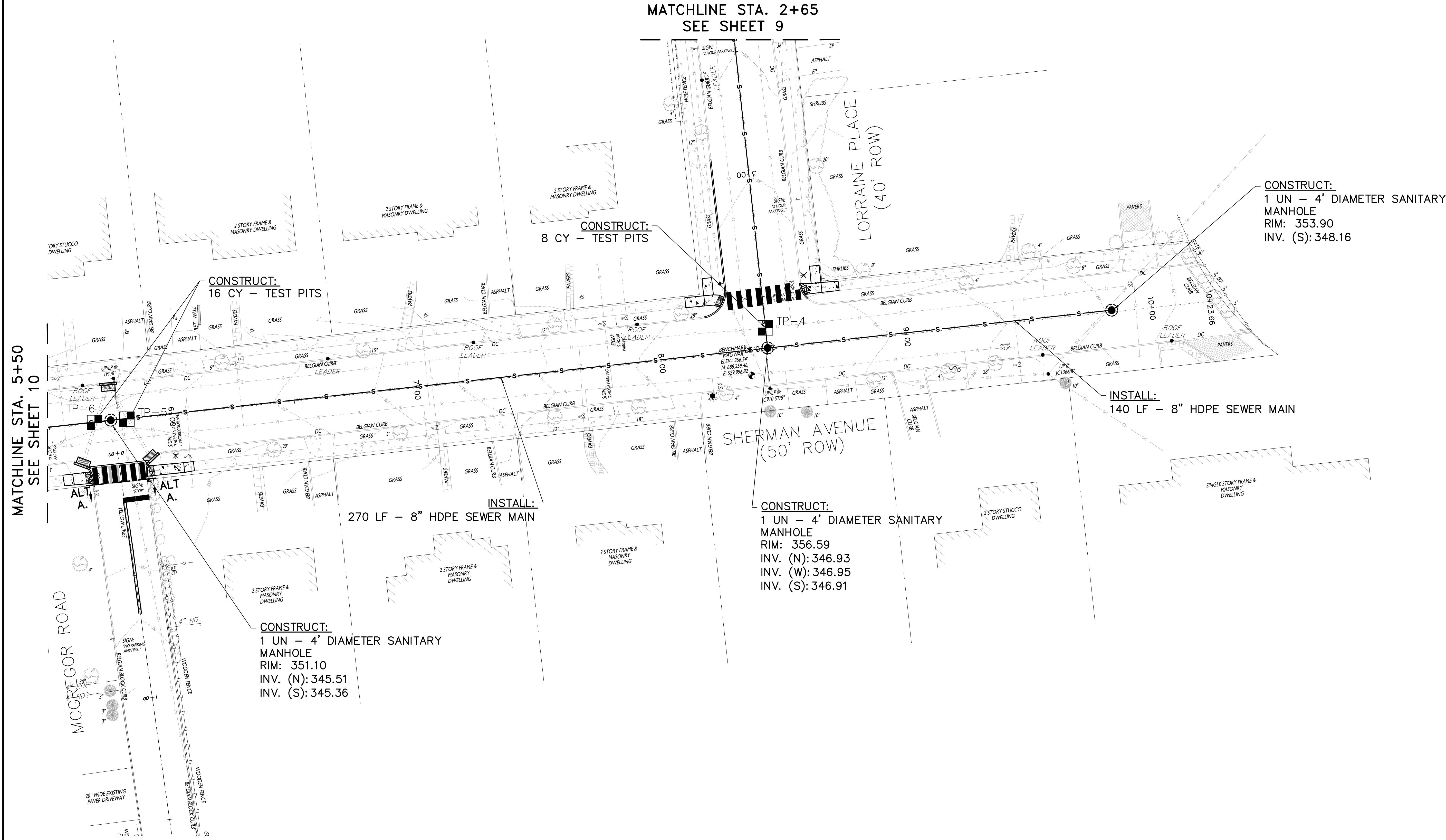
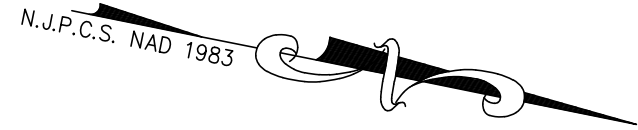
PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY
1		9/18/25	SCC/VD

**UTILITY PLAN**  
CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:	SHEET No.		
03-17-2024	10 of 24		
JOB No.:	2018-T-009		





MATCHLINE STA. 5+50  
SEE SHEET 10

MATCHLINE STA. 2+65  
SEE SHEET 9

CONSTRUCT:  
16 CY - TEST PITS

CONSTRUCT:  
8 CY - TEST PITS

CONSTRUCT:  
1 UN - 4' DIAMETER SANITARY  
MANHOLE  
RIM: 353.90  
INV. (S): 348.16

INSTALL:  
140 LF - 8" HDPE SEWER MAIN

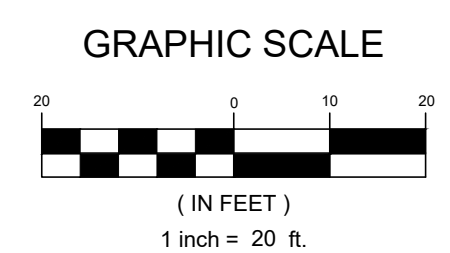
INSTALL:  
270 LF - 8" HDPE SEWER MAIN

CONSTRUCT:  
1 UN - 4' DIAMETER SANITARY  
MANHOLE  
RIM: 356.59  
INV. (N): 346.93  
INV. (W): 346.95  
INV. (S): 346.91

CONSTRUCT:  
1 UN - 4' DIAMETER SANITARY  
MANHOLE  
RIM: 351.10  
INV. (N): 345.51  
INV. (S): 345.36

MANHOLE SCHEDULE

MH NO.	DESCRIPTION	RIM EL.	INVERTS	STATIONING	ALIGNMENT
8.	4' DIAMETER SANITARY MANHOLE	351.10'	INV. (N) = 345.51', INV. (S) = 345.36'	STA. 5+75	SHERMAN AVENUE
7.	4' DIAMETER SANITARY MANHOLE	356.59'	INV. (N) = 346.93', INV. (W) = 346.95', INV. (S) = 346.91'	STA. 8+43	SHERMAN AVENUE
6.	4' DIAMETER SANITARY MANHOLE	353.90'	INV. (S) = 348.16'	STA. 9+83	SHERMAN AVENUE



UTILITY PLAN

CITY OF SUMMIT  
LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
NEW JERSEY

DRAWN BY: DRB	DESIGN BY: JF	CHECKED BY: TV	SCALE: AS NOTED
DATE: 03-17-2024			
JOB NO.: 2018-T-009			
SHEET No.: 11 of 24			

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56622

**RVE**  
1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
*Excellence • Innovation • Service*



RVE

1901

REMINGTON & VERNICK ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHKD
1	REISSUED FOR REBID	9/18/25	SCD	VD

RAMP DETAILS

CITY OF SUMMIT

LORRAINE ROAD, LORRAINE PLACE

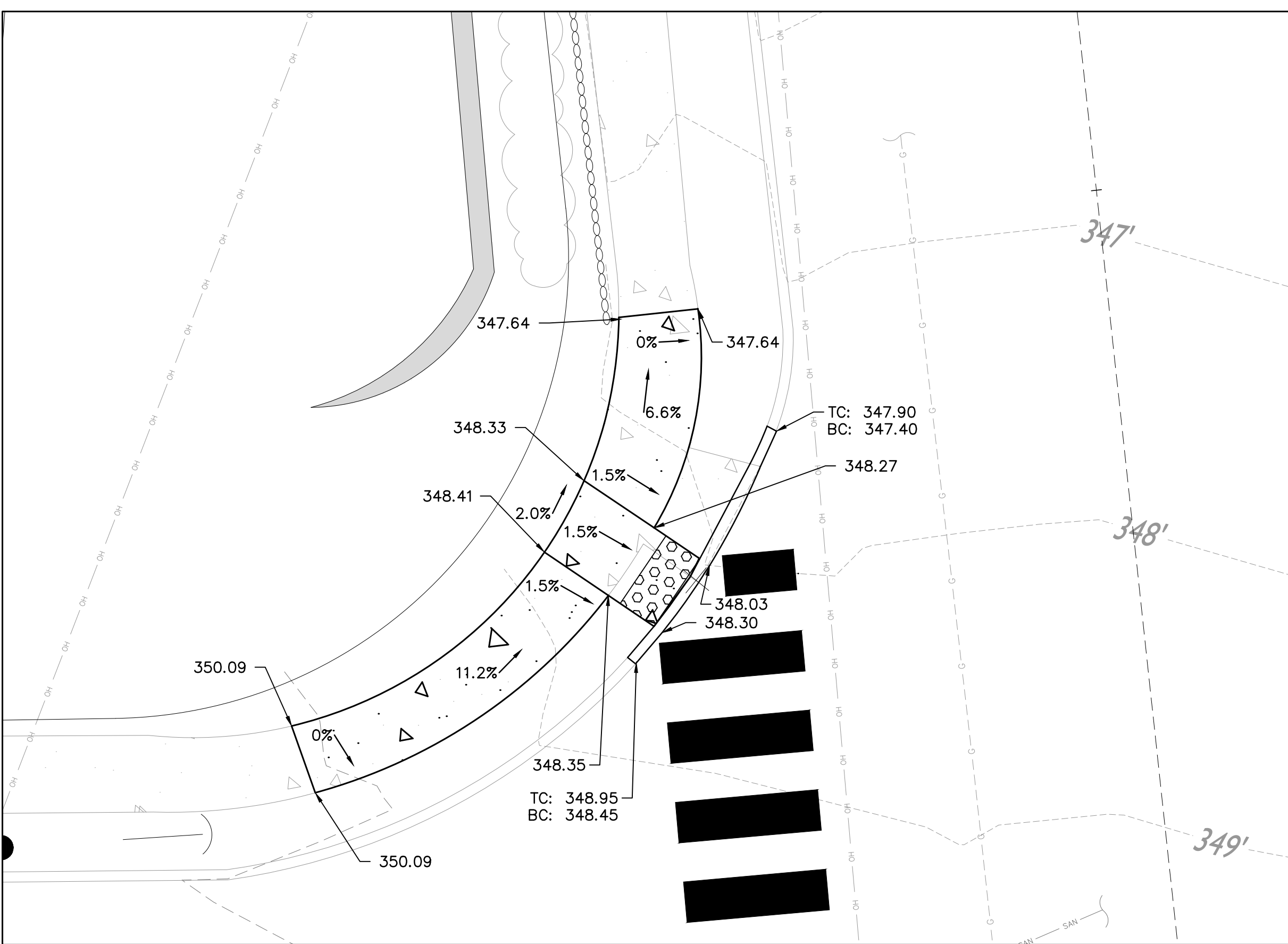
SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT

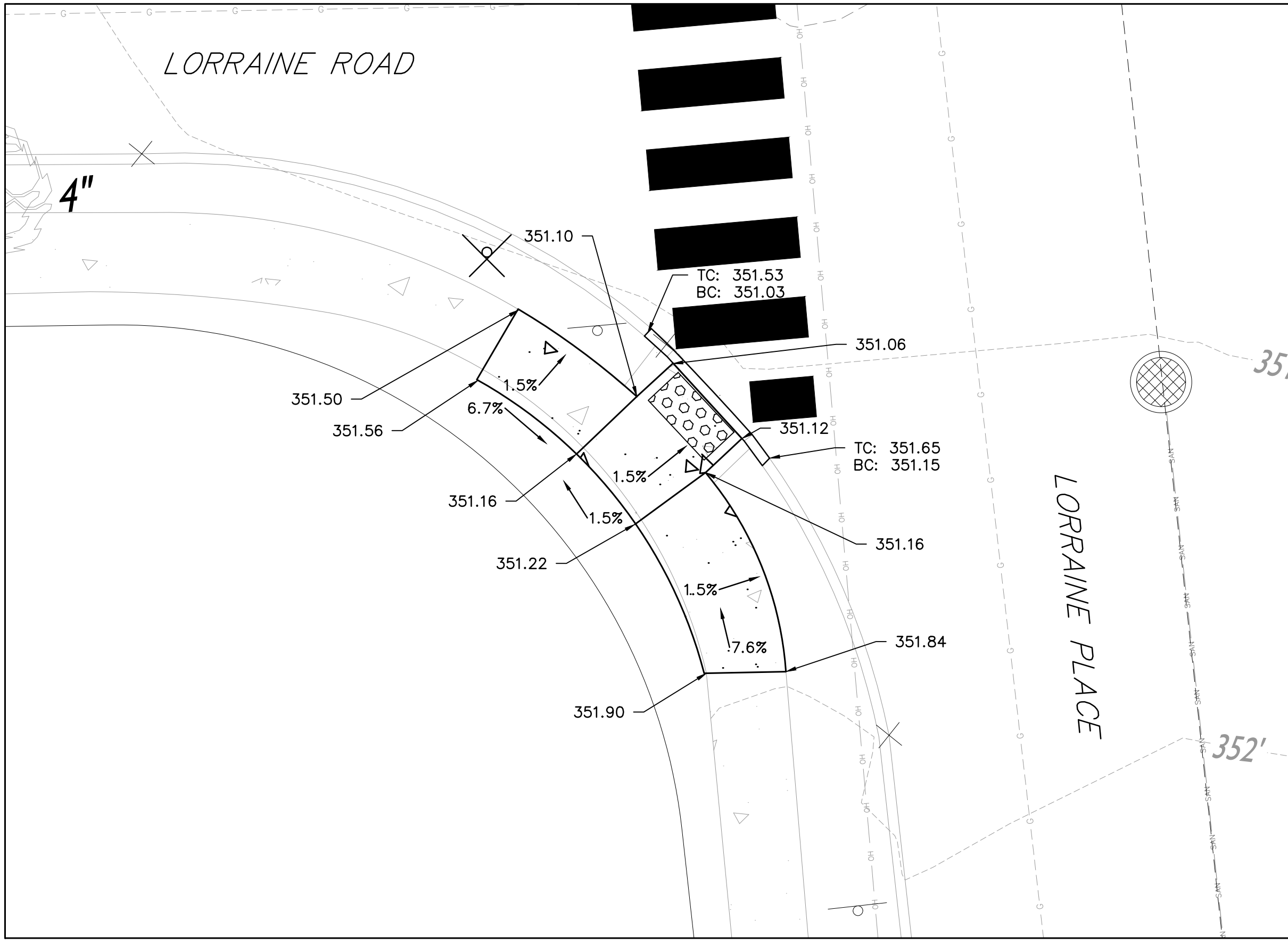
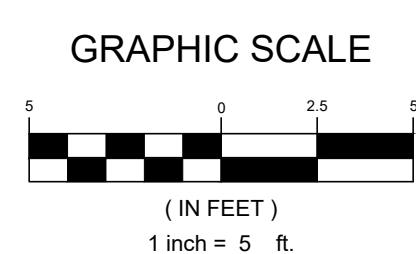
UNION COUNTY

NEW JERSEY

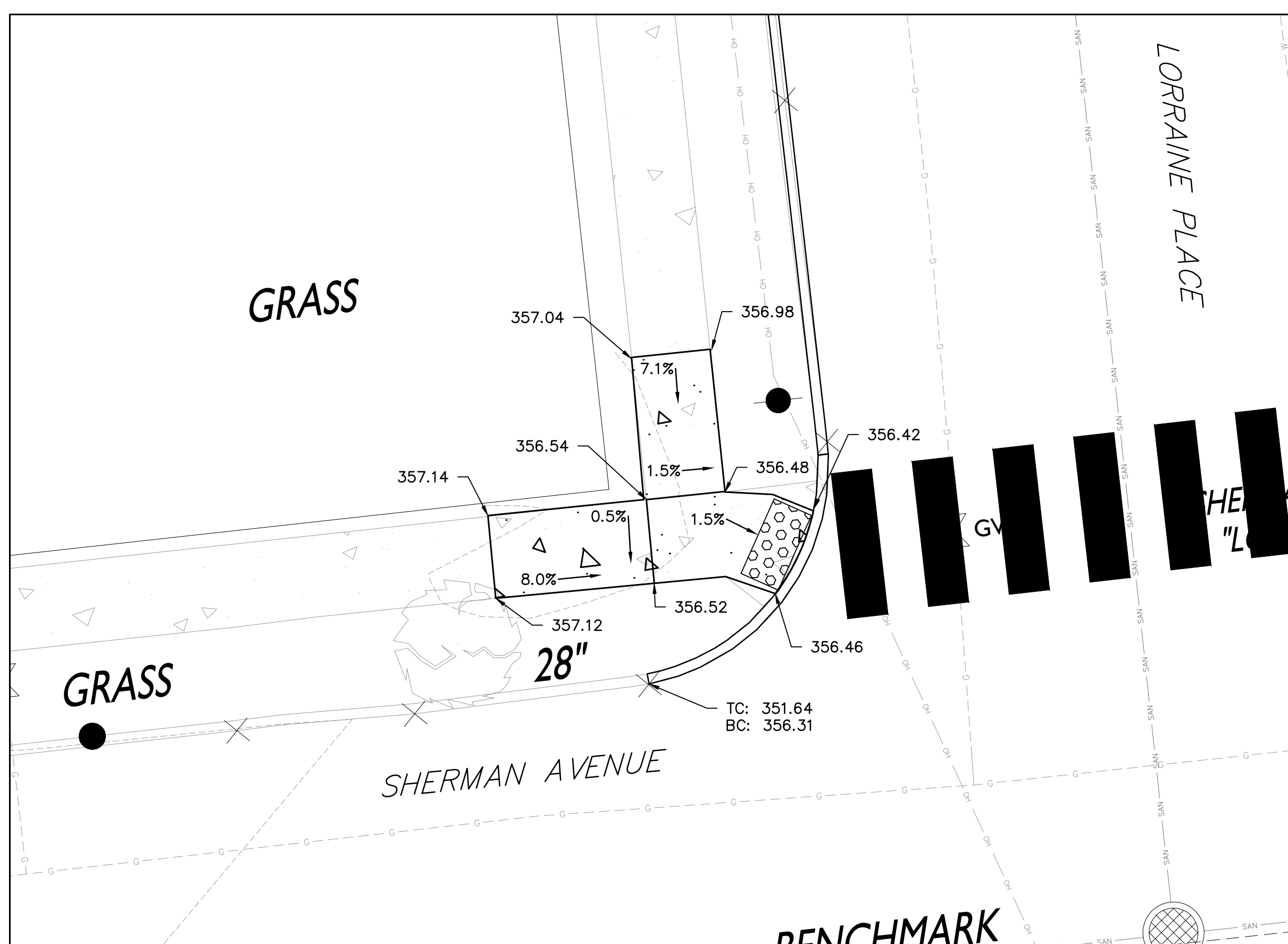
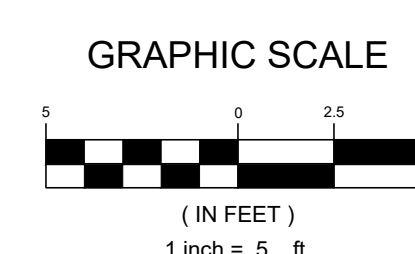
DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:			SHEET No.:
03-17-2024			12 of 24
JOB No.:			2018-T-009



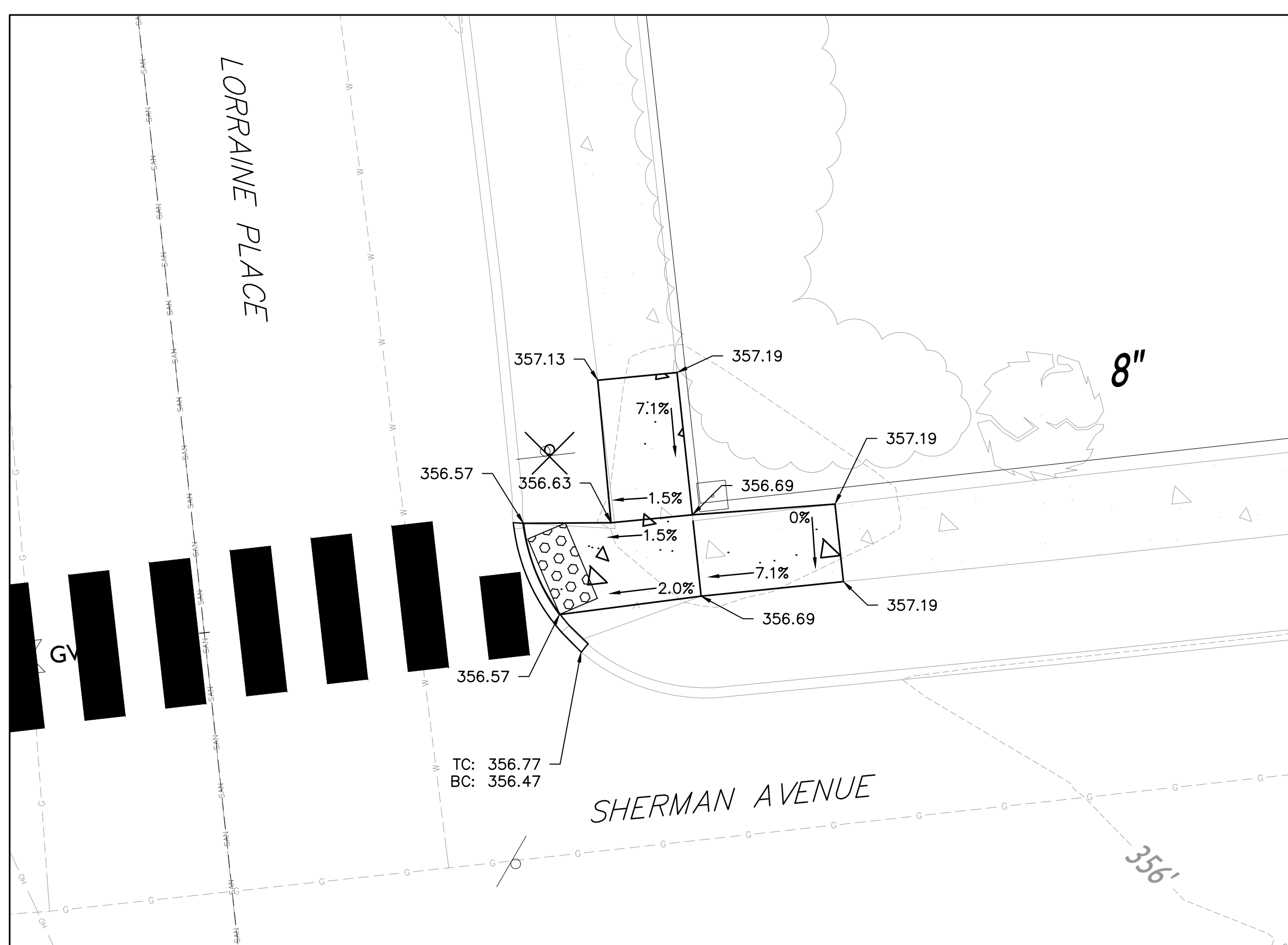
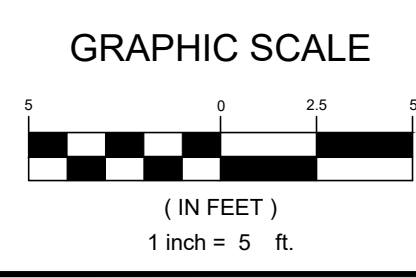
LORRAINE ROAD & LORRAINE PLACE RAMP DETAIL 1



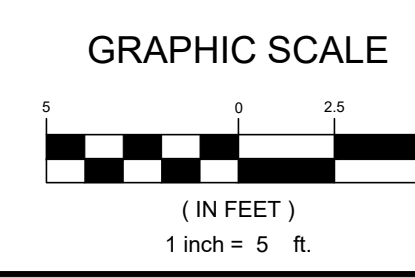
LORRAINE ROAD & LORRAINE PLACE RAMP DETAIL 2



SHERMAN AVENUE & LORRAINE PLACE RAMP DETAIL 1



SHERMAN AVENUE & LORRAINE PLACE RAMP DETAIL 2











429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751

(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM

Certification of Authorization: 24 GA 28003300  
***Excellence • Innovation • Service***

TE: 9/18/25

PROFESSIONAL ENGINEER LIC. No. 3377

TE: 9/18/25

PROFESSIONAL ENGINEER LIC. No. 5652

LAN S WHICH DO NOT BEA

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES; AND OWNERS SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

[illegible]

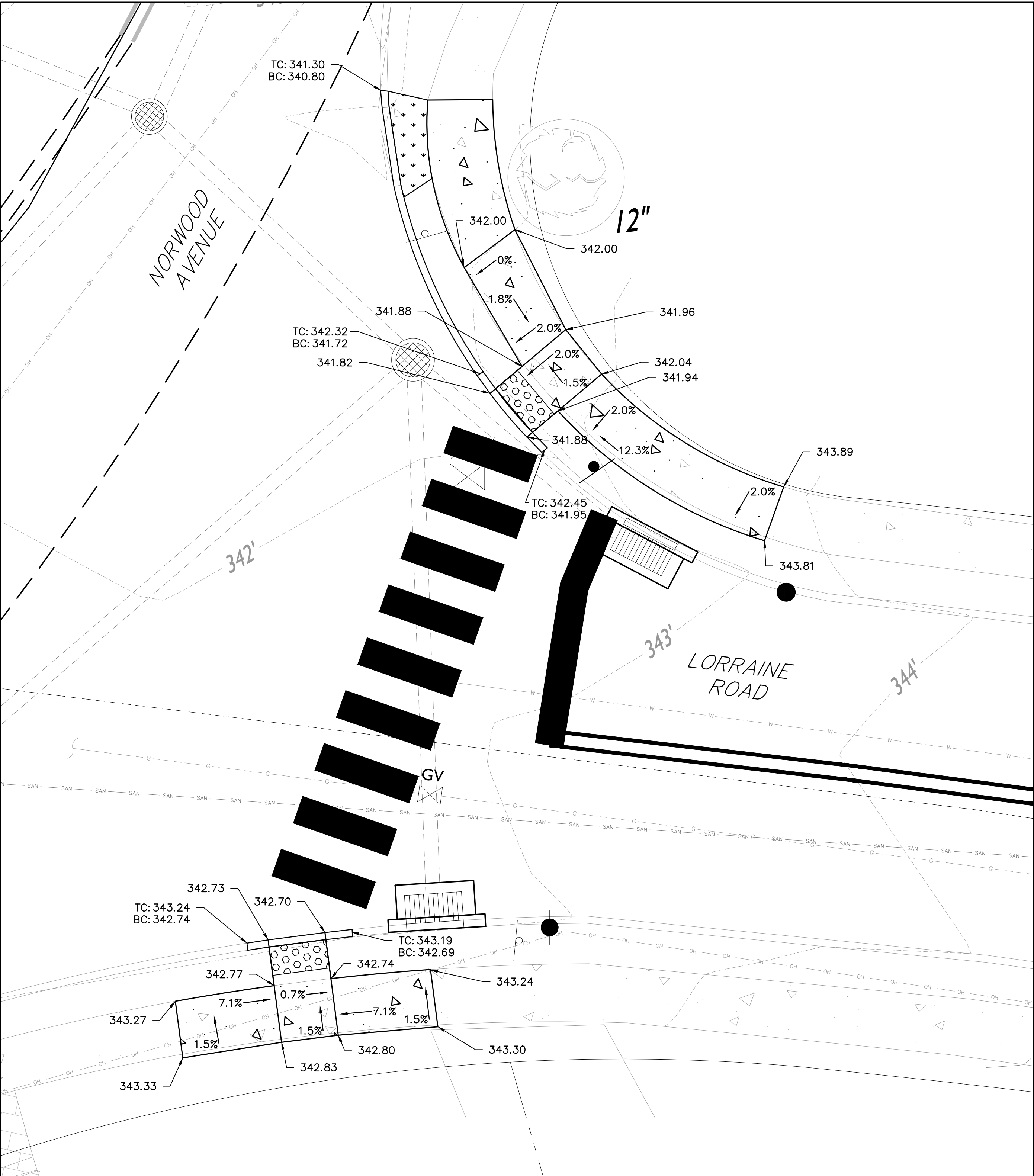
## RAMP DETAILS

CITY OF SUMMIT

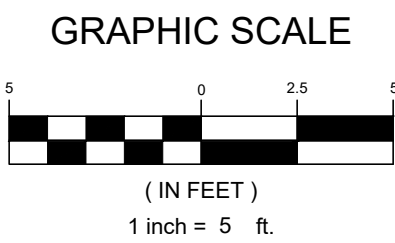
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS

CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

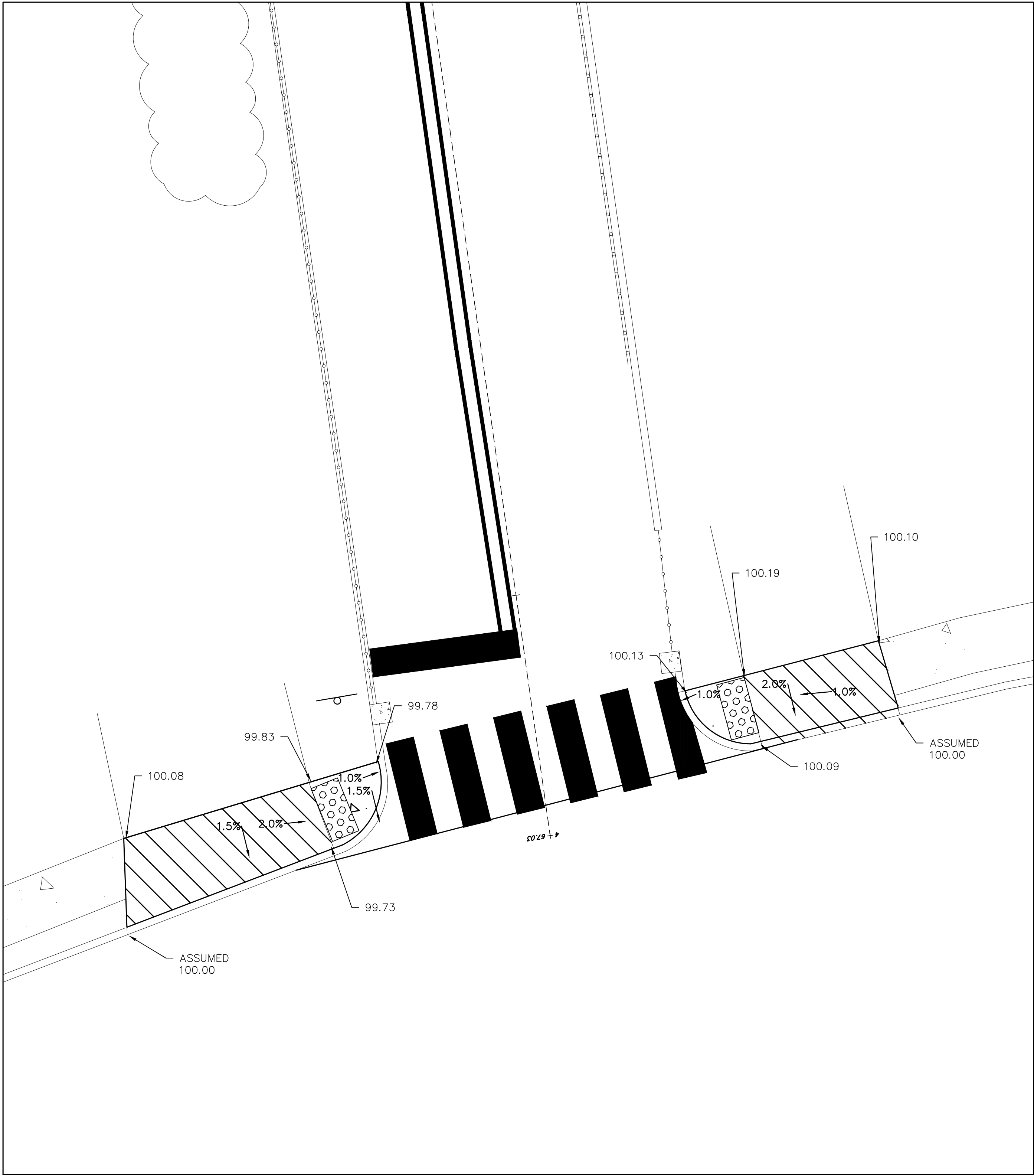
<u>DRAWN BY :</u> DRB	<u>DESIGN BY :</u> JF	<u>CHECKED BY :</u> TV	<u>SCALE :</u> AS NOTED
<u>DATE :</u> 03-17-2024  <u>JOB No. :</u> 2018-T-009		<u>SHEET No. :</u>  <div style="font-size: 2em; font-weight: bold;">14 of 24</div>	



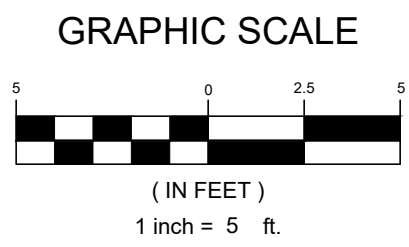
## NORWOOD AVENUE & LORRAINE ROAD RAMP DETAIL







MCGREGOR ROAD & WOODMERE AVENUE RAMP DETAIL



RVE

1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25

TERENCE M. VOGT

NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

MOSTAFA RAZZAGHMANESH

NJ PROFESSIONAL ENGINEER LIC. No. 56522

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

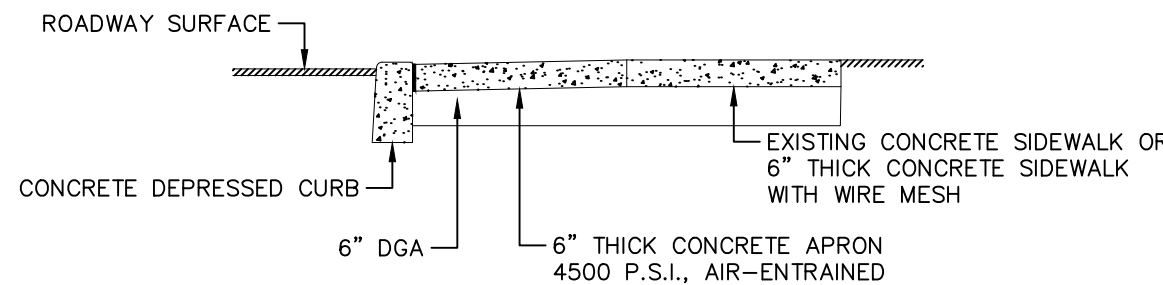
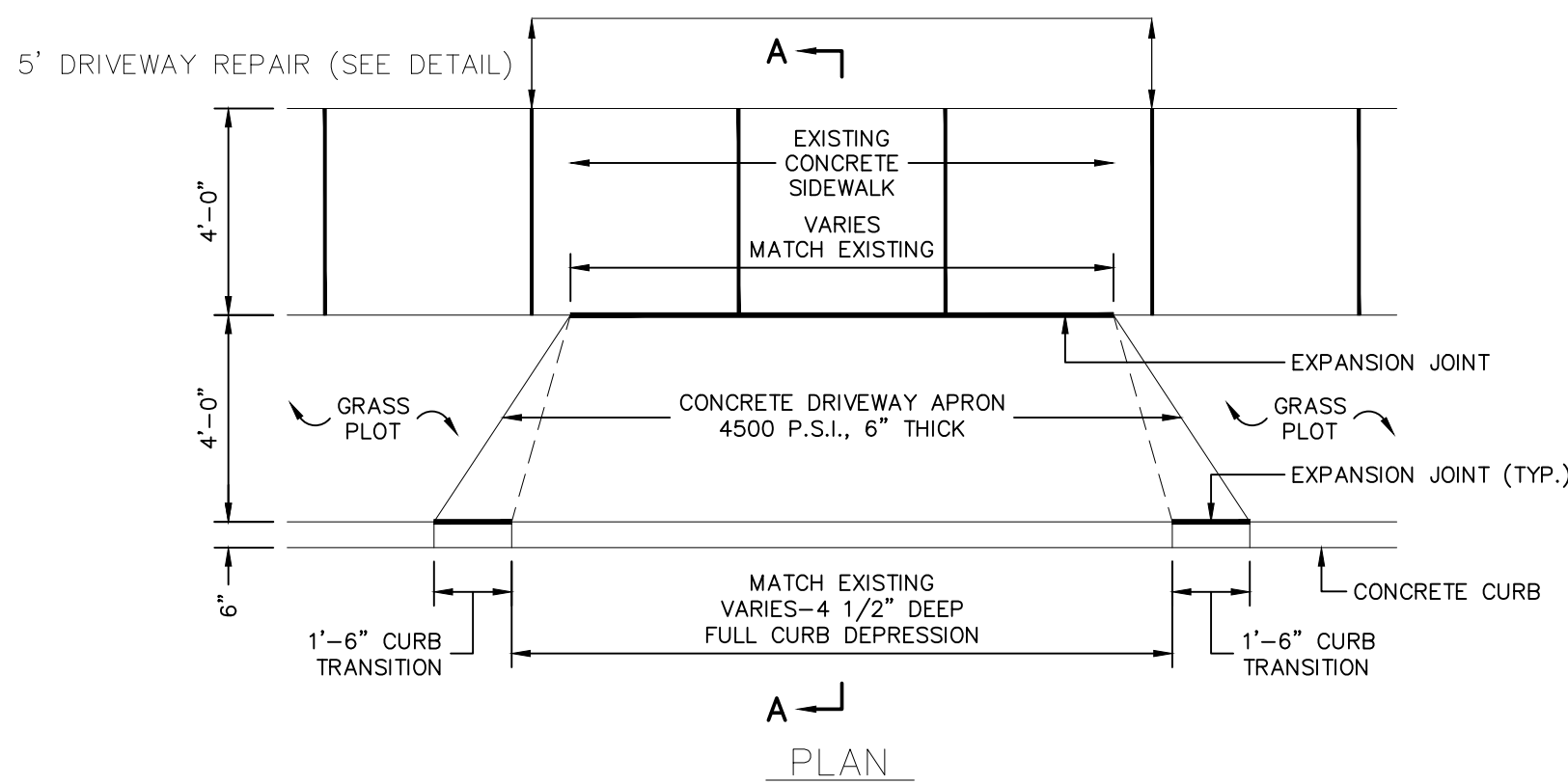
REVISION		DATE	BY
1	REISSUED FOR REBID	9/18/25	SC/LVD

RAMP DETAILS

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:	SHEET No.:		
03-17-2024	15 of 24		
JOB No.:			
2018-T-009			

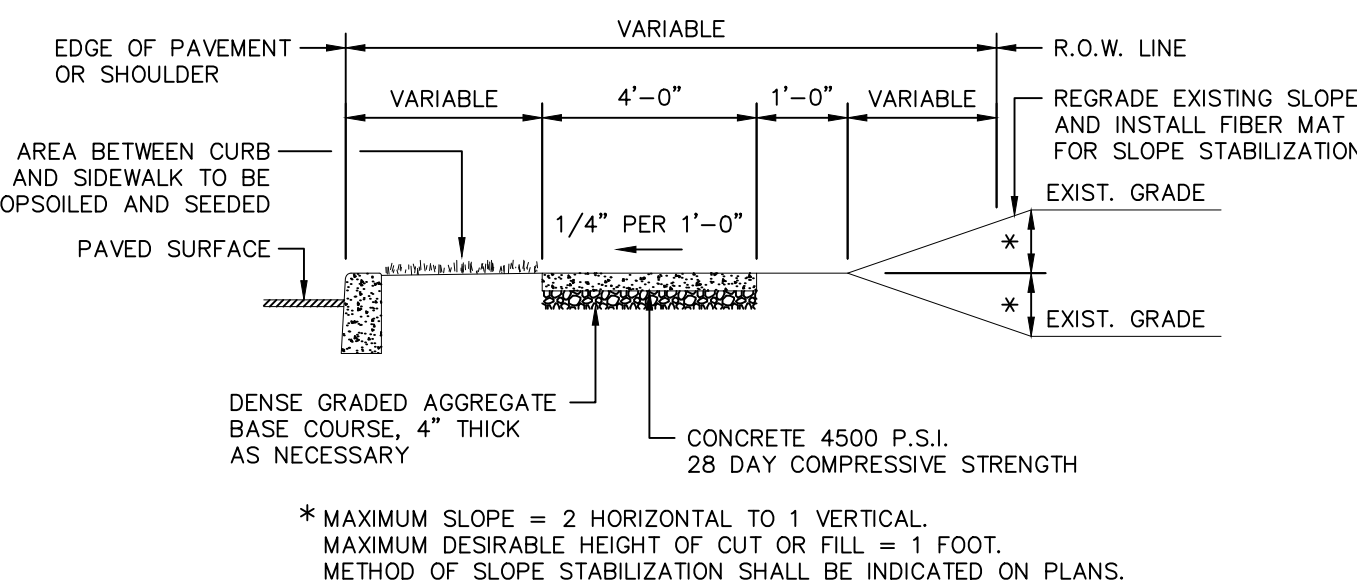




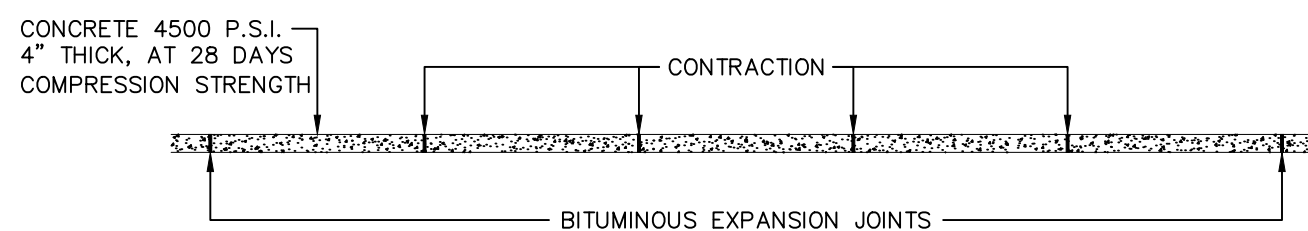
### DRIVEWAY APRON AND CURB DEPRESSION

(APPLICABLE WITH STANDARD CURB)  
N.T.S.

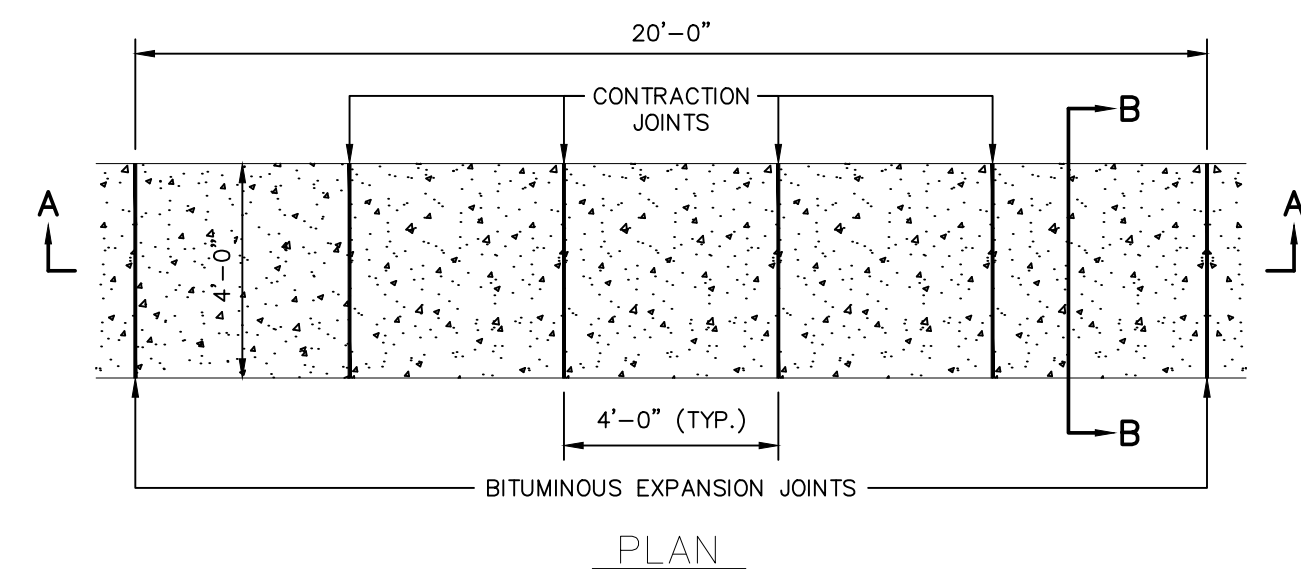
DRIVEWAY REPAIR TO BE INCLUDED IN THE PRICE BID FOR DRIVEWAY APRONS



### SECTION B-B



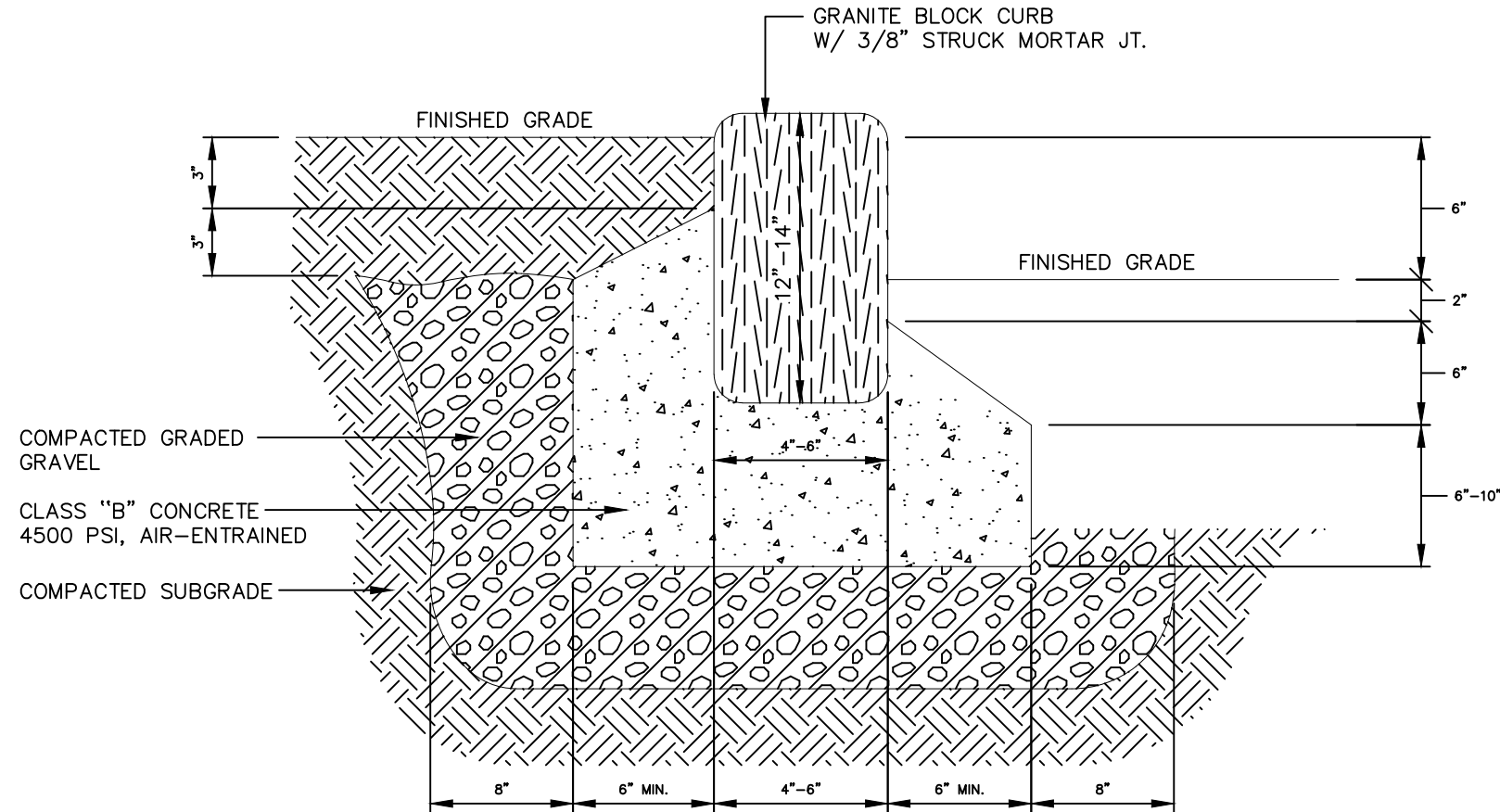
### SECTION A-A



- NOTES:
1. THE COST OF THE DGA IS TO BE INCLUDED IN THE AMOUNT BID FOR SIDEWALK. NO ADDITIONAL PAYMENT WILL BE MADE FOR DGA USED FOR SIDEWALK CONSTRUCTION.
  2. A PREFORMED, BITUMINOUS EXPANSION JOINT, 1/2" THICK, 4' WIDE AND EXTENDED THE FULL WIDTH OF THE WALK, UNBROKEN, SHALL BE INSTALLED EVERY 20 FEET.
  3. CONTRACTION JOINTS SHALL BE INSTALLED EVERY 4' FOR THE FULL LENGTH OF THE WALK WIDTH.
  4. THERE SHALL BE A BROOM FINISH WITH THE EDGES FINISHED WITH A SUITABLE TOOL.

### CONCRETE SIDEWALK DETAIL

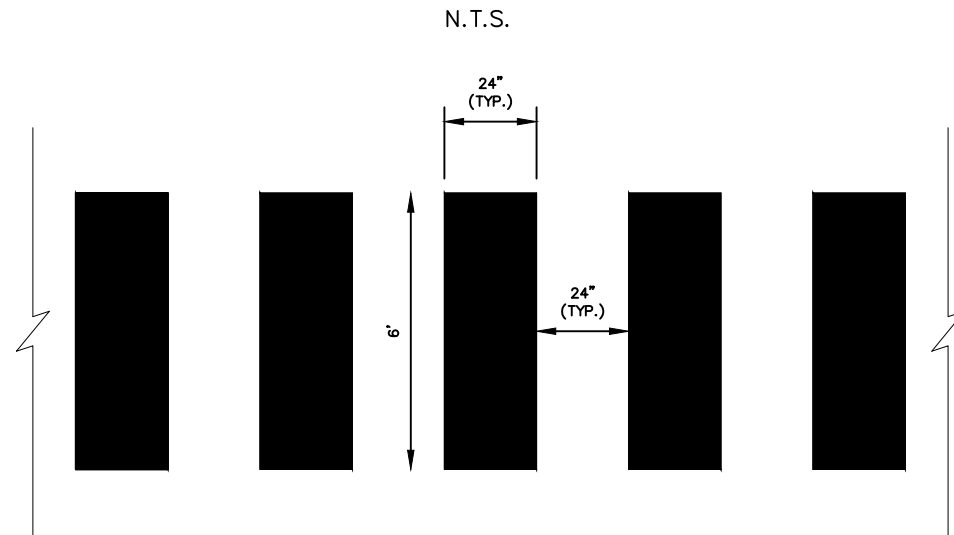
N.T.S.



- NOTES:
1. ALL MATERIALS & WORKMANSHIP TO BE IN ACCORDANCE WITH N.J.D.O.T. STANDARDS.
  2. PROVIDE 1/2" PREFORMED EXPANSION JOINTS, TRIMMED, 30' O.C. AND AT P.C. & P.T. OF CURVES W/ 1/2" DEEP SEALANT.
  3. CARE SHALL BE TAKEN TO SELECT UNIFORM BELGIAN BLOCK WHERE WALK AND PAVING MEET CURB.

### GRANITE BLOCK CURB DETAIL

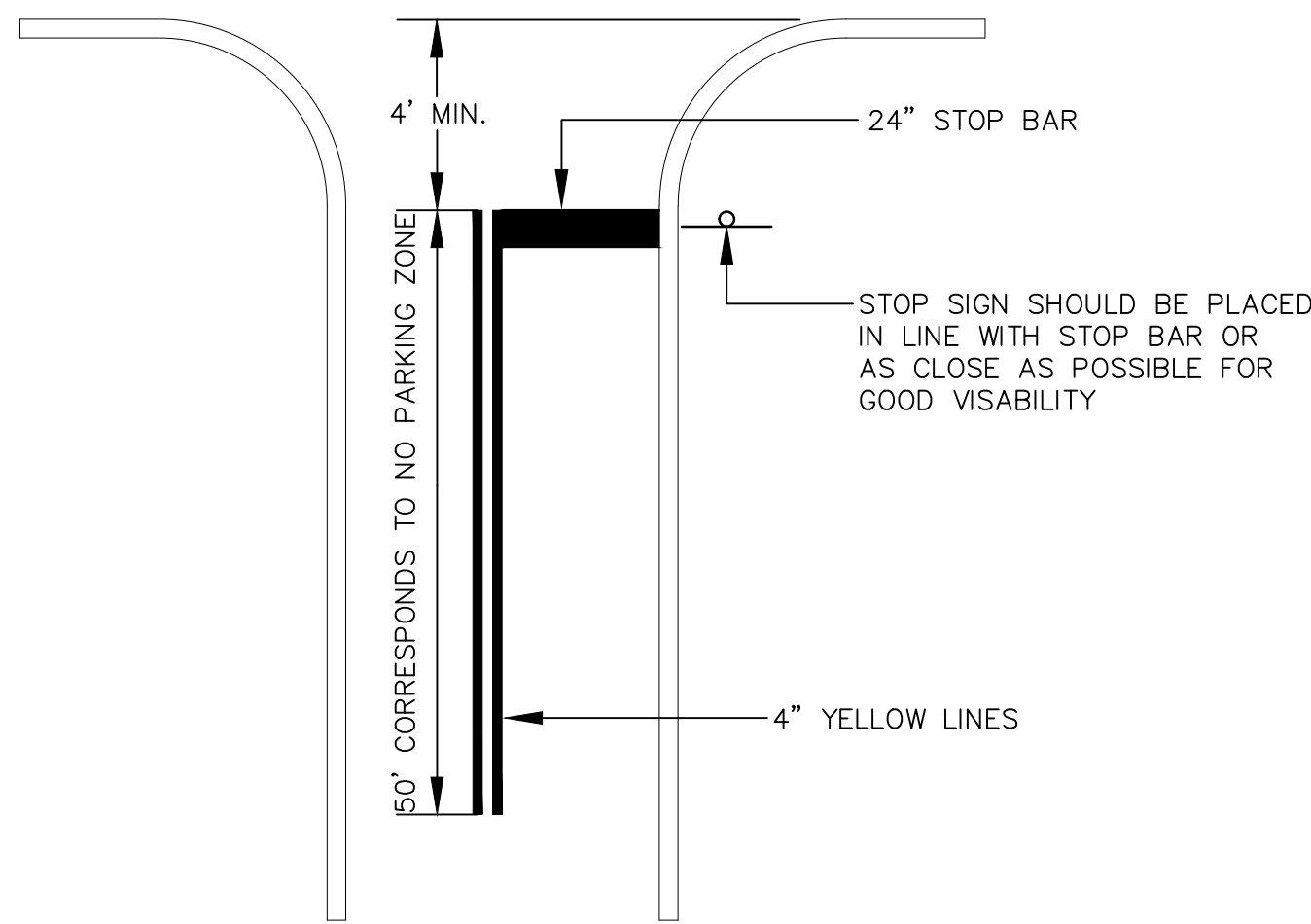
N.T.S.



- NOTE:
1. ALL STRIPING SHALL BE LONG LIFE THERMOPLASTIC.

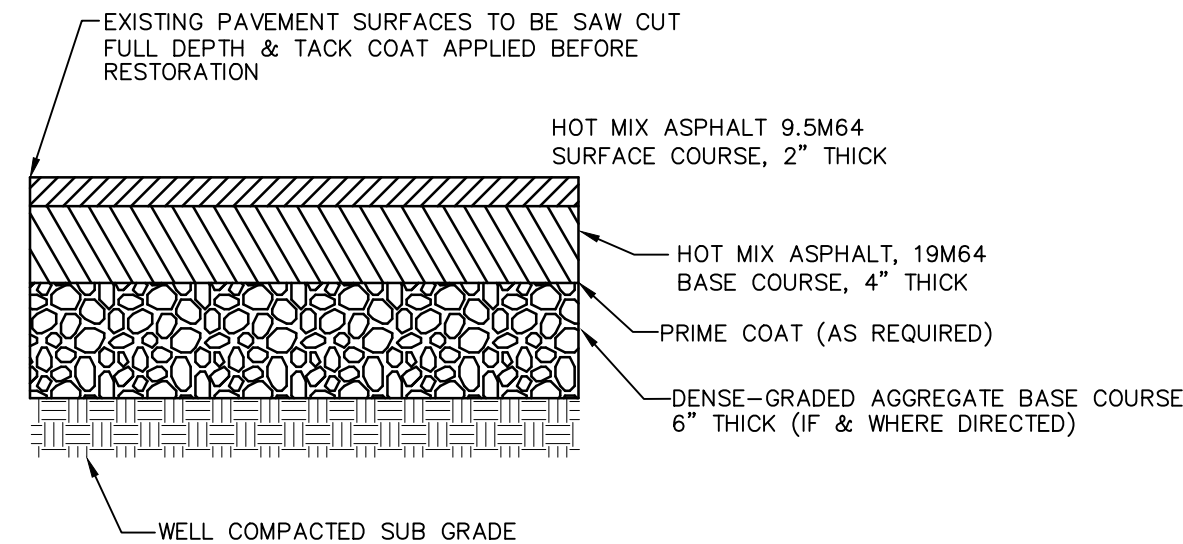
### CROSSWALK DETAIL

N.T.S.



### PAVEMENT MARKINGS W/O CROSSWALK DETAIL

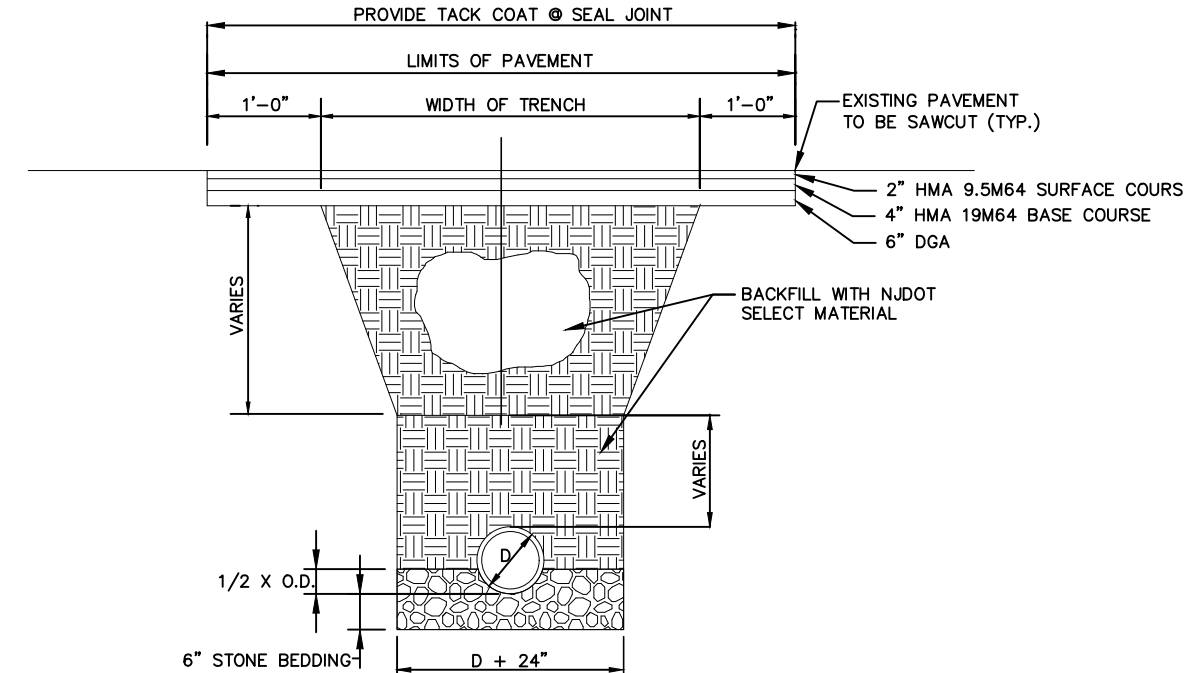
N.T.S.



### HOT MIX ASPHALT PAVEMENT SECTION

N.T.S.

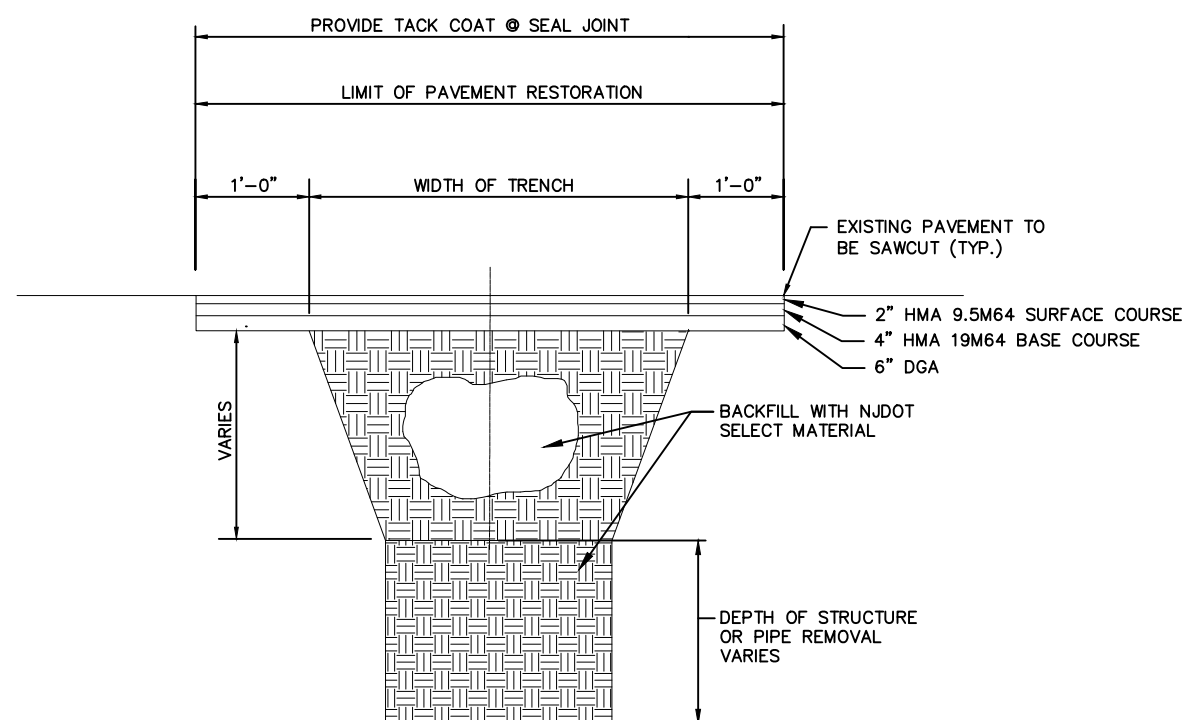
- NOTES:
1. SUBBASE SHALL BE GRANULAR AND MEET DESIGNATION I-13, OR APPROVED EQUAL, AS NECESSARY TO OBTAIN PROPER COMPACTION.
  2. SUBBASE TO BE PROOFROLLED UNDER THE OBSERVATION OF THE RESIDENT INSPECTOR AND ACCEPTED PRIOR TO PAVING.



### ROADWAY TRENCH DETAIL WITH SINGULAR SOLID PIPE

N.T.S.

- NOTES:
1. THE LAY DOWN AREA FOR THE EXCAVATED MATERIAL SHALL BE IMMEDIATELY ADJACENT TO THE TRENCH AND SHALL BE ISOLATED TO THE ASPHALT ROADWAY. TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL BASE PAVING SHALL BE COMPLETED EACH FRIDAY FOR ALL WORK COMPLETED THAT WEEK.
  2. MAXIMUM WIDTH OF TRENCH SHALL NOT EXCEED THE DEPTH TO THE INVERT OF THE PROPOSED PIPELINE.
  3. SEPARATE PAYMENT WILL NOT BE MADE FOR BACKFILL, BEDDING OR PAVEMENT RESTORATION, BUT SHALL BE INCLUDED IN THE PRICE BID FOR THE PIPES.
  4. SEPARATE PAYMENT WILL NOT BE MADE FOR TEMPORARY COVER MATERIALS, SELECT FILL, DEWATERING, FITTING, SHORING, SHEETING, AND BRACING INVOLVED IN ALL PIPE AND STRUCTURE INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS PIPE ITEMS OF THE PROPOSAL.
  5. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION AND DISPOSAL OF REGULATED OR UNCLASSIFIED SOILS OF ANY KIND. THE CONTRACTOR SHALL ASSUME THAT ALL SOILS ON SITE ARE REGULATED. EXCAVATED SOIL SHALL BE REUSED AS BACKFILL MATERIAL.



### STRUCTURE & PIPE REMOVAL TRENCH REPAIR DETAIL

N.T.S.

- NOTES:
1. THE LAY DOWN AREA FOR THE EXCAVATED MATERIAL SHALL BE IMMEDIATELY ADJACENT TO THE TRENCH AND SHALL BE ISOLATED TO THE ASPHALT ROADWAY. TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL BASE PAVING SHALL BE COMPLETED EACH FRIDAY FOR ALL WORK COMPLETED THAT WEEK.
  2. SEPARATE PAYMENT WILL NOT BE MADE FOR TEMPORARY COVER MATERIALS, SELECT FILL, DEWATERING, FITTING, SHORING, SHEETING, AND BRACING, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
  3. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION AND DISPOSAL OF REGULATED OR UNCLASSIFIED SOILS OF ANY KIND. THE CONTRACTOR SHALL ASSUME THAT ALL SOILS ON SITE ARE REGULATED. EXCAVATED SOIL SHALL BE REUSED AS BACKFILL MATERIAL.

# RVE

1901  
REMINGTON & VERNICK ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
**Excellence • Innovation • Service**

DATE: 9/18/25

**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25

**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHK
1	REISSUED FOR REDO	9/18/25	SC	VD

## DETAILS

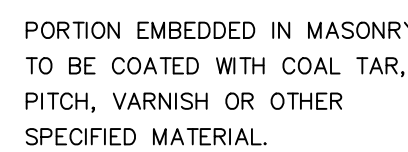
CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:		SHEET No.:	
03-17-2024		16	of 24
JOB No.:			
2018-T-009			

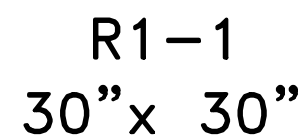




DEPRESSED CURB  
N.T.S.



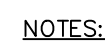
### ALUMINUM MANHOLE RUNG DETAIL



N.T.S.



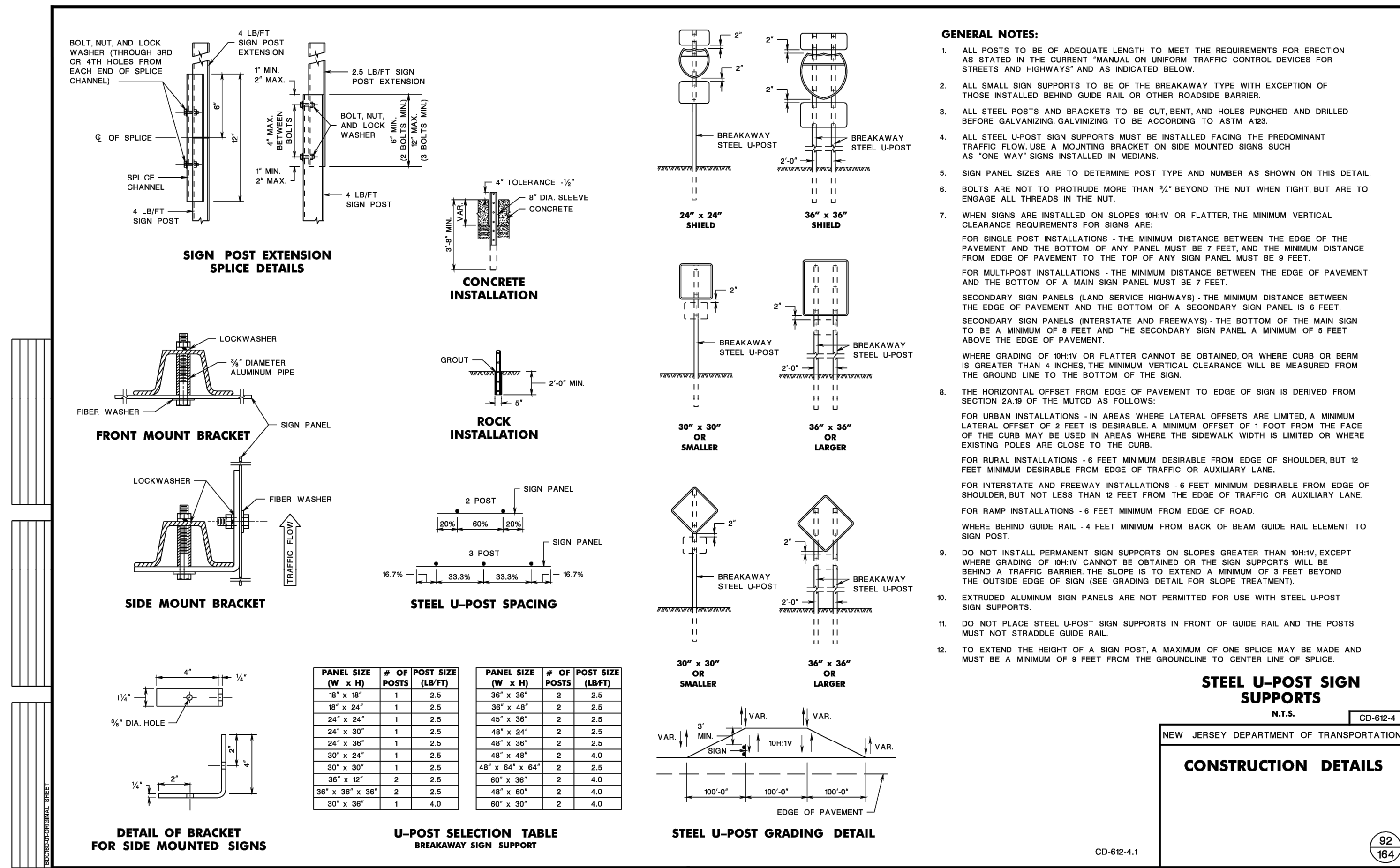
NTS



1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ADEQUATE BALLASTS TO OFFSET FLOTATION FORCES ACTING ON MANHOLES.
2. ALL REINFORCEMENT IS SUBJECT TO ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

## STANDARD MANHOLE DETAIL

N.T.S



## DETAILS

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
SUMMIT  
UNION COUNTY  
NEW JERSEY

NEW JERSEY

CITY OF SUMMIT

<u>DRAWN BY :</u> DRB	<u>DESIGN BY :</u> JF	<u>CHECKED BY :</u> TV	<u>SCALE :</u> AS NOTED
<u>DATE :</u> 03-17-2024		<u>SHEET No. :</u> 17 of 24	
<u>JOB No. :</u> 2018-T-009			

17 of 24

17 of 24

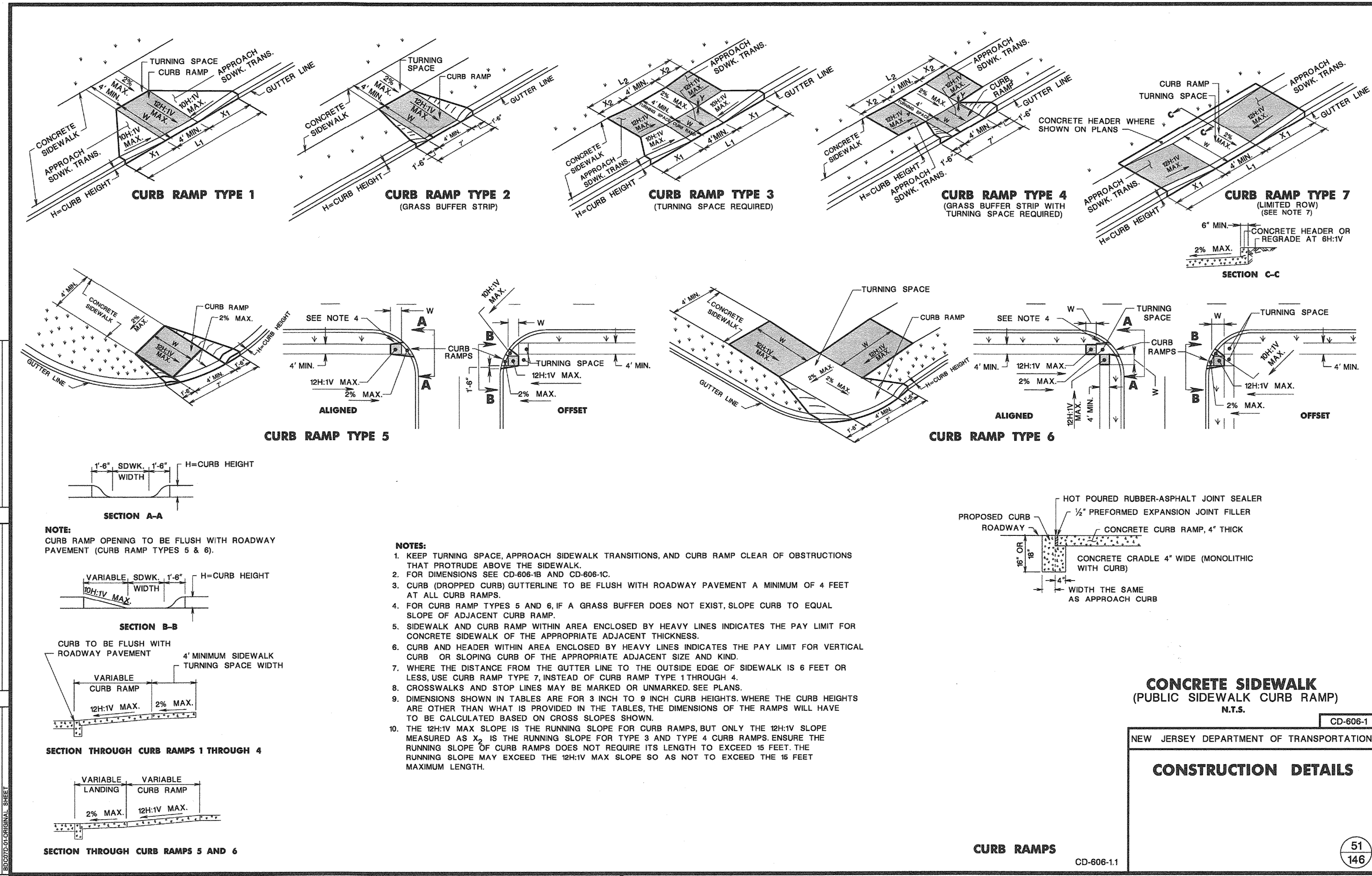


per: 10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00



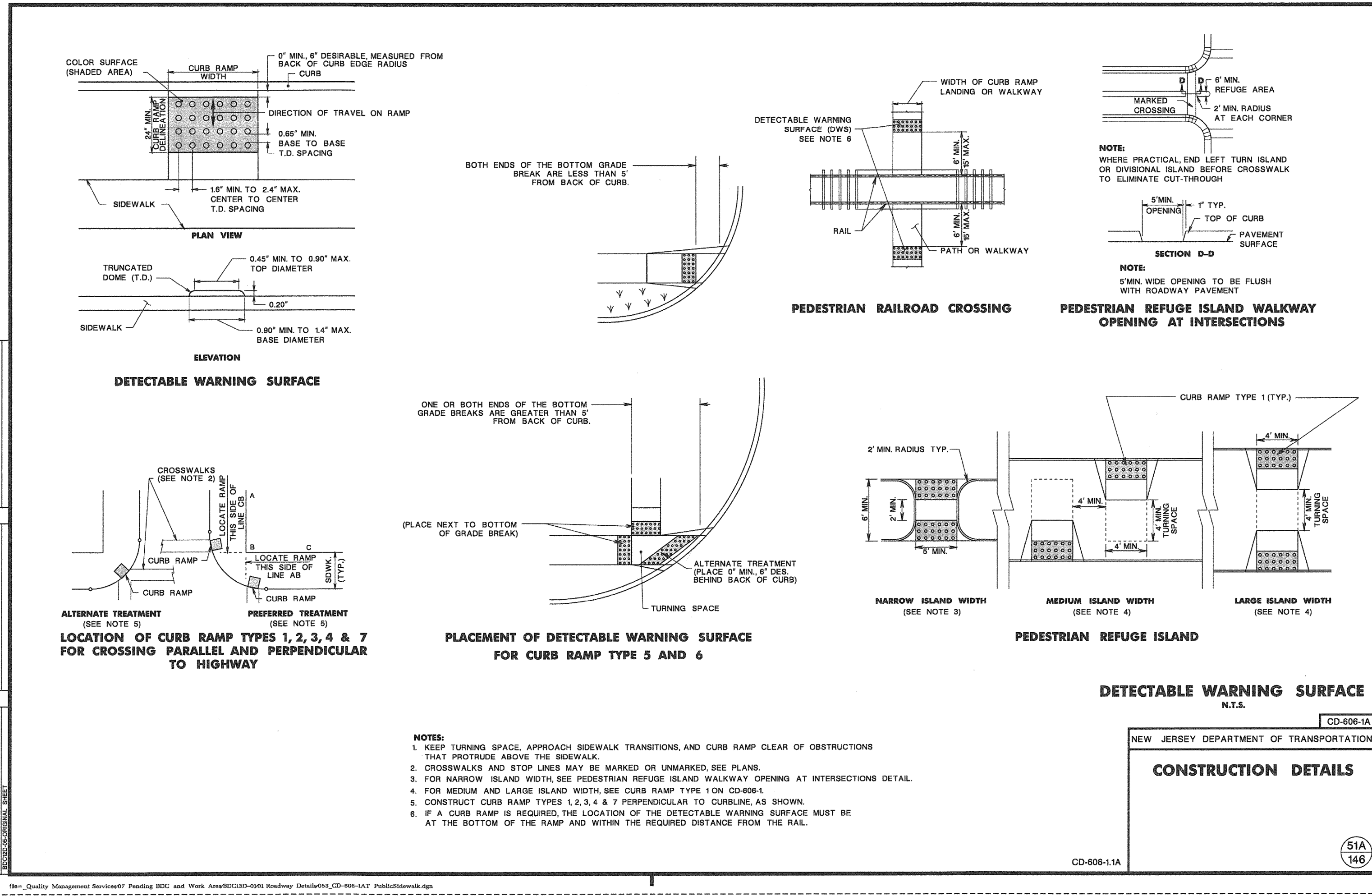
file: Quality Management Services\Project\BDC and Work Area\BDC\3D-0901 Roadway Details\606-11 PublicSidewalk.dgn

per: 10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00

10/10/2017 10:00:00 10/10/2017 10:00:00



file: Quality Management Services\Project\BDC and Work Area\BDC\3D-0901 Roadway Details\606-1A PublicSidewalk.dgn

9"  
Mountain Ave  
VARIABLE

- NOTES:
- 1) SIGNS TO BE MOUNTED ON A 2" OD X 10' GALVANIZED POLE
  - 2) POLE TO HAVE A 18" MIN. DIA. X 4'-0" DEEP CONCRETE FOOTING
  - 3) SIGNS TO BE MOUNTED ON GALVANIZED (OR APPROVED EQUAL) PLACE HOLDER
  - 4) COST FOR POST, HARDWARE, AND FOOTING TO BE INCLUDED IN "STREET SIGNS"
  - 5) SIGN WIDTHS MAY VARY
  - 6) WHITE RETRO-REFLECTIVE BACKING (3M DIAMOND GRADE™ OR APPROVED EQUAL)
  - 7) BLACK "LYLE" STYLE BORDER (OR APPROVED EQUAL)
  - 8) BLACK LETTERS (FONT TYPE: "HIGHWAY SERIES C" OR APPROVED EQUAL)
  - 9) MUST MEET MUTCD REFLECTIVE STANDARDS
  - 10) PROOF MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALL
- STREET SIGN DETAILS (CITY OF SUMMIT STANDARD): 9" SIGN (D3-1)  
N.T.S.

**RVE**  
1901  
**REMINGTON & VERNICK ENGINEERS**  
429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
**Excellence • Innovation • Service**

DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

REVISION	DATE	BY	CHK
1	9/18/25	SCC	VD
REISSUED FOR REDO			

**DETAILS**

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
UNION COUNTY  
CITY OF SUMMIT  
NEW JERSEY

DRAWN BY: DRB  
DESIGN BY: JF  
CHECKED BY: TV  
SCALE: AS NOTED

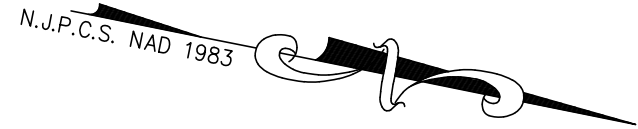
DATE: 03-17-2024  
JOB No.: 2018-T-009

18 of 24









NORWOOD AVENUE  
(50' ROW)

INLET PROTECTION (TYP.)

LOT 7, BLOCK 1902  
N/F LANDS OF  
SCHLEIMER, JOHN F. & CHRISTINE B.  
DB 5007 PG 216  
#1

LOT 8, BLOCK 1902  
N/F LANDS OF  
BENN, RICHARD R. & JENNIFER M.  
DB 4608 PG 232  
#3

LOT 1, BLOCK 1902  
N/F LANDS OF  
BOARD OF EDUCATION  
DEED NOT RECOVERED

LOT 9, BLOCK 1902  
N/F LANDS OF  
METALLO, MICHAEL & CERAMI, DANIELLE  
DB 6401, PG 2944  
#7

LOT 10, BLOCK 1902  
N/F LANDS OF  
POWELL, GRANT EDMUND & BRAY, JILL S.  
DB 5830, PG 567  
#6

LOT 11, BLOCK 1902  
N/F LANDS OF  
COUGHLAN, JOHN P.  
DB 6483, PG 100  
#11

LOT 12, BLOCK 1902  
N/F LANDS OF  
13 SHERMAN AVENUE LLC  
DB 6365, PG 270  
#13

LOT 3, BLOCK 1204  
N/F LANDS OF  
PATRICK K DALEY AND KATHRYN C DALEY  
DB 6364 PG 2890  
#49

LOT 2, BLOCK 1204  
N/F LANDS OF  
MC GLYNN, E. B., JR. & BORMAN, D.C.  
DB 3604 PG 504  
#47

LOT 17, BLOCK 1204  
N/F LANDS OF  
COGHAN, BETTY JANE  
DB 4639 PG 248  
#4

LOT 16, BLOCK 1204  
N/F LANDS OF  
MORMAK, JOSEPH M. & MARY JANE  
DB 3421 PG 279  
#8

LOT 15, BLOCK 1204  
N/F LANDS OF  
AMANDA POOLE TRUST  
DB 6436 PG 96  
#10

LOT 14, BLOCK 1204  
N/F LANDS OF  
BIERCE, ALEXANDER & KAITLIN B  
DB 6428 PG 2655  
#12

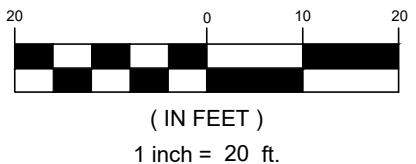
LOT 13, BLOCK  
N/F LANDS OF  
VAISMAN, ETHAN  
DB 6395 PG  
#14

SHERMAN AVENUE  
(50' ROW)

MATCHLINE STA. 5+50  
SEE SHEET 21

GRAPHIC SCALE

TOTAL LIMIT OF DISTURBANCE = 1.33 ACRES



SOIL EROSION & SEDIMENT  
CONTROL PLAN

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:			SHEET No.:
03-17-2024			20 of 24
JOB No.:			
2018-T-009			

RVE

1901

REMINGTON  
& VERNICK  
ENGINEERS

429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
Excellence • Innovation • Service

DATE: 9/18/25  
TERENCE M. VOGT  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

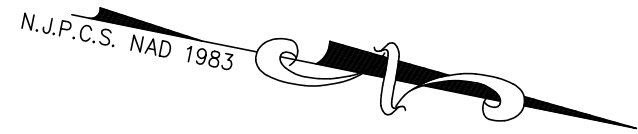
DATE: 9/18/25  
MOSTAFA RAZZAGHMANESH  
NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK  
ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF  
SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT  
INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE  
BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT  
OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT  
WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC  
PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND  
WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES. AND OWNER  
SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS,  
DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR  
RESULTING THEREFROM.

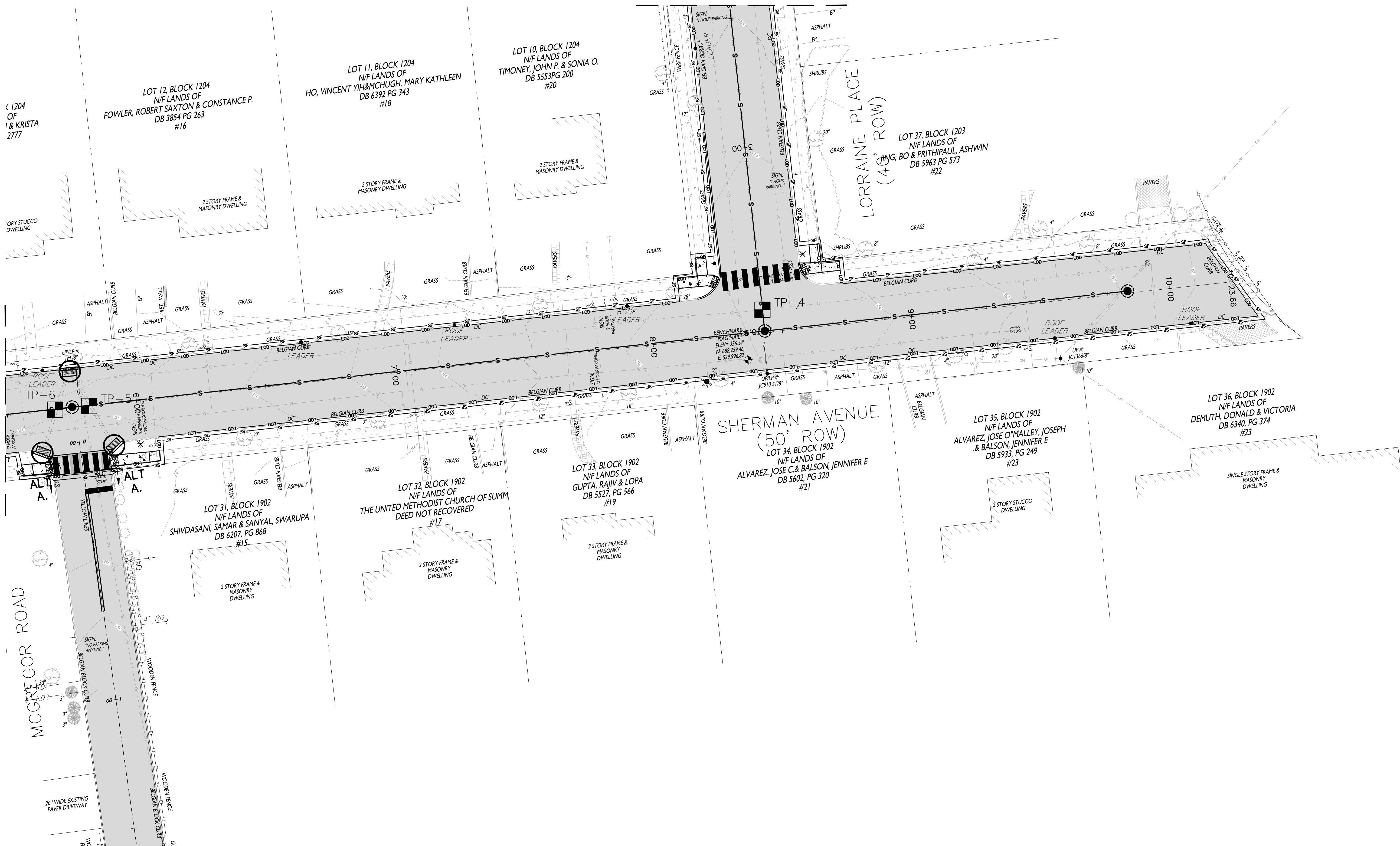
	DATE	BY
1	9/18/25	SCC/LVD
	REISSUED FOR REBID	
	REVISION	



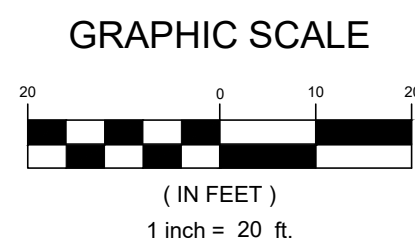


MATCHLINE STA. 5+50  
SEE SHEET 20

MATCHLINE STA. 2+65  
SEE SHEET 19



TOTAL LIMIT OF DISTURBANCE = 1.33 ACRES



SOIL EROSION & SEDIMENT  
CONTROL PLAN

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

**RVE**  
1901  
**REMINGTON  
& VERNICK  
ENGINEERS**  
429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
**Excellence • Innovation • Service**

DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. No. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. No. 56622

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK  
ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF  
SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT  
INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE  
BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT  
OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT  
WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC  
PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND  
VERNICK ENGINEERS AND AFFILIATES, AND OWNER  
SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON &  
VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS,  
DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR  
RESULTING THEREFROM.

NO.	REVISION	DATE	BY
1	REISSUED FOR REBID	9/18/25	SCC/LVD

DRAWN BY: DRB	DESIGN BY: JF	CHECKED BY: TV	SCALE: AS NOTED
DATE: 03-17-2024	SHEET No.: 21 of 24		
JOB No.: 2018-T-009			









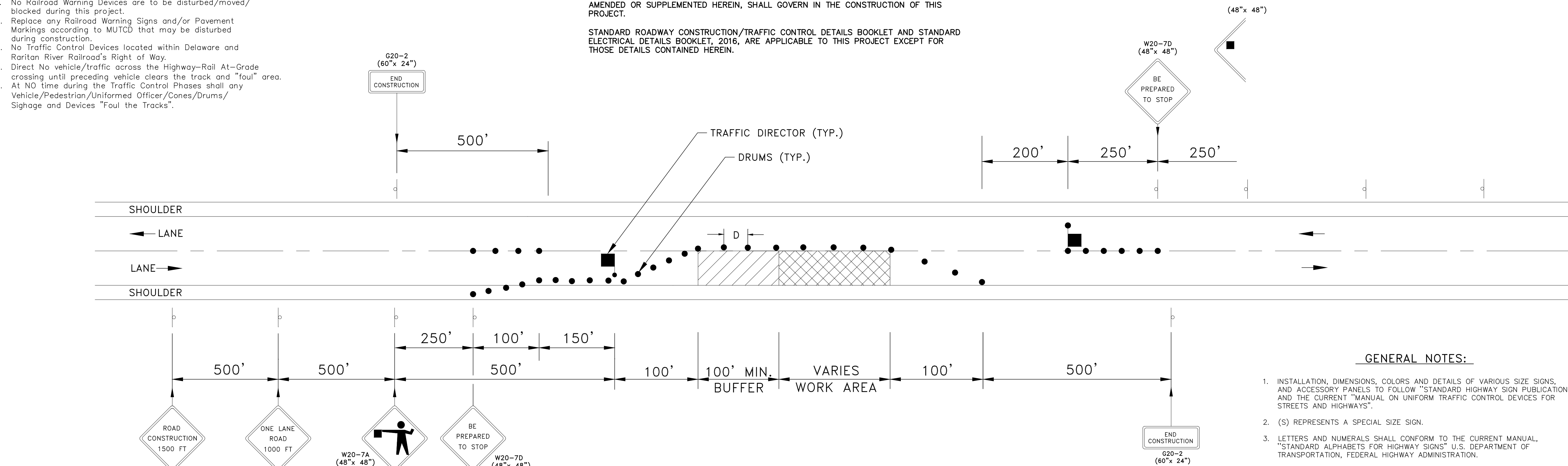


NOTES:

1. No Railroad Warning Devices are to be disturbed/moved/ blocked during this project.
2. Replace any Railroad Warning Signs and/or Pavement Markings according to MUTCD that may be disturbed during construction.
3. No Traffic Control Devices located within Delaware and Raritan River Railroad's Right of Way.
4. Direct No vehicle/traffic across the Highway-Rail At-Grade crossing until preceding vehicle clears the track and "foul" area.
5. At NO time during the Traffic Control Phases shall any Vehicle/Pedestrian/Uniformed Officer/Cones/Drums/ Sighage and Devices "Foul the Tracks".

THE 2019 U.S. CUSTOMARY ENGLISH UNITS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, OF THE NEW JERSEY DEPARTMENT OF TRANSPORTATION, AS AMENDED OR SUPPLEMENTED HEREIN, SHALL GOVERN IN THE CONSTRUCTION OF THIS PROJECT.

STANDARD ROADWAY CONSTRUCTION/TRAFFIC CONTROL DETAILS BOOKLET AND STANDARD ELECTRICAL DETAILS BOOKLET, 2016, ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.



## TYPICAL STREET TRAFFIC CONTROL PLAN

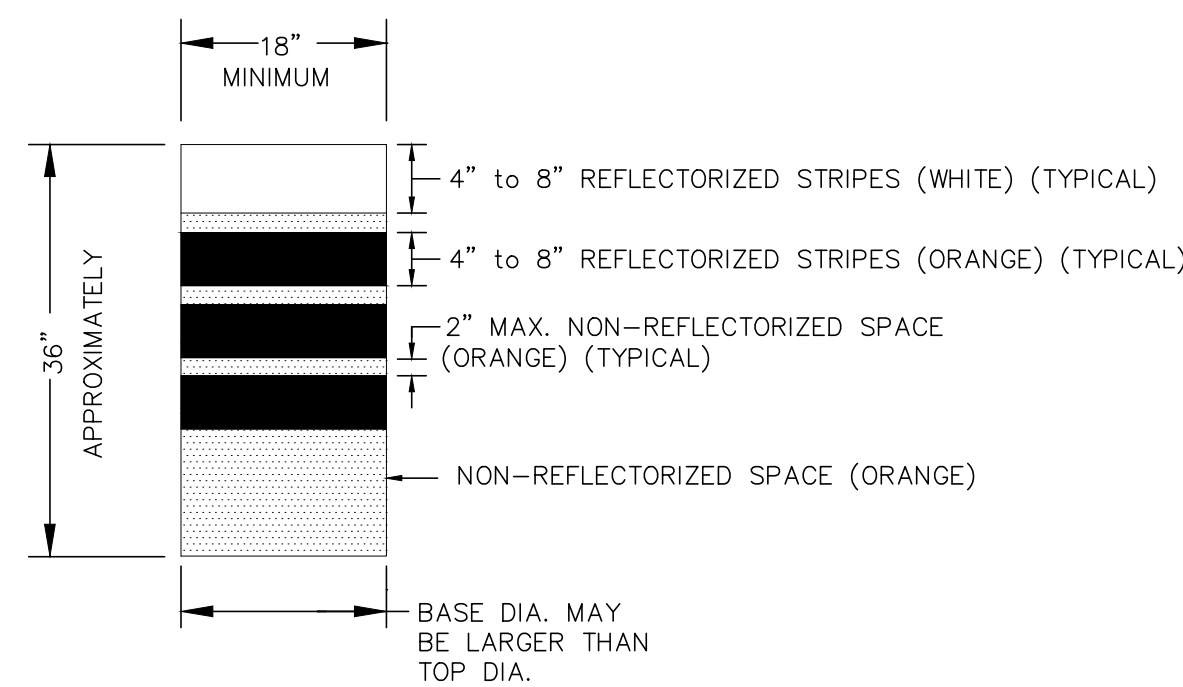
N.T.S.

NOTES:

DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR (4) ALTERNATE ORANGE AND WHITE REFLECTORIZED STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. STRIPES SHALL BE REFLECTIVE SHEETING WHICH MEETS THE REQUIREMENTS AS SHOWN FOR CONSTRUCTION SIGNS. THE TOP OF THE DRUM SHALL NOT BE OPEN.

DRUMS SHALL BE CONSTRUCTED TO INHIBIT ROLLING IF KNOCKED OVER.

THE REFLECTORIZED AREA OF DRUMS SHALL BE ROUND EXCEPT THAT OTHER SHAPES, WHICH PROVIDE THE SAME VISIBILITY AS AN 18" DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED IF APPROVED BY THE BUREAU OF MATERIALS.



WHEN BALLAST IS REQUIRED BY THE ENGINEER, SAND SHALL BE USED. THE MAXIMUM WEIGHT OF THE BALLAST SHALL BE 50 LBS. AND BE LOCATED APPROXIMATELY AT GROUND LEVEL.

## DRUM DETAIL

N.T.S.

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS

REGULATORY APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L - FOR LANE WIDTHS			MAXIMUM BARRICADE (B) SPACING IN FEET	MAXIMUM DEVICE (D) SPACING IN FEET
		10.FT.	11.FT.	12.FT.		
25	10.5:1	105	115	125	25	50
30	15.0:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27.0:1	270	295	320	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

RECOMMENDED SPACING ALONG TANGENTS

S:\Engineer\Jamesburg 1208\1208T\1208-T-172-2021 N.JDOT Application\Cone Detail.PNG

### GENERAL NOTES:

1. INSTALLATION, DIMENSIONS, COLORS AND DETAILS OF VARIOUS SIZE SIGNS, AND ACCESSORY PANELS TO FOLLOW "STANDARD HIGHWAY SIGN PUBLICATION" AND THE CURRENT "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
2. (S) REPRESENTS A SPECIAL SIZE SIGN.
3. LETTERS AND NUMERALS SHALL CONFORM TO THE CURRENT MANUAL, "STANDARD ALPHABETS FOR HIGHWAY SIGNS" U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
4. THE CONTRACTOR SHALL OBTAIN THE APPROVAL OF THE ENGINEER FOR THE DISTANCE TO BE USED ON THE ADVANCE WARNING SIGNS, AND FOR THE SPEED LIMIT TO BE USED ON THE R2-1 SIGN.
5. 

SIGN NUMBER	FOLLOWED BY
LETTER	DISTANCE
A	1500'
B	1000'
C	500'
D	MILE
E	MILES AHEAD
F	AHEAD

### BACKING MATERIAL

1. ALUMINUM SHALL BE FLAT SHEET OF 6061-T6 ALLOY, 100 GAUGE.

### TEMPORARY SIGN SUPPORTS

1. SIGN SUPPORTS SHALL BE OF WELL SEASONED LUMBER, S4S, FREE OF SPLITS, KNOTS AND WARPS OR OF STEEL OR ALUMINUM COMPONENTS.
2. WOOD POSTS SHALL HAVE A UNIFORM CROSS-SECTION AND SHALL NOT EXCEED THE FOLLOWING DIMENSIONS FOR:  

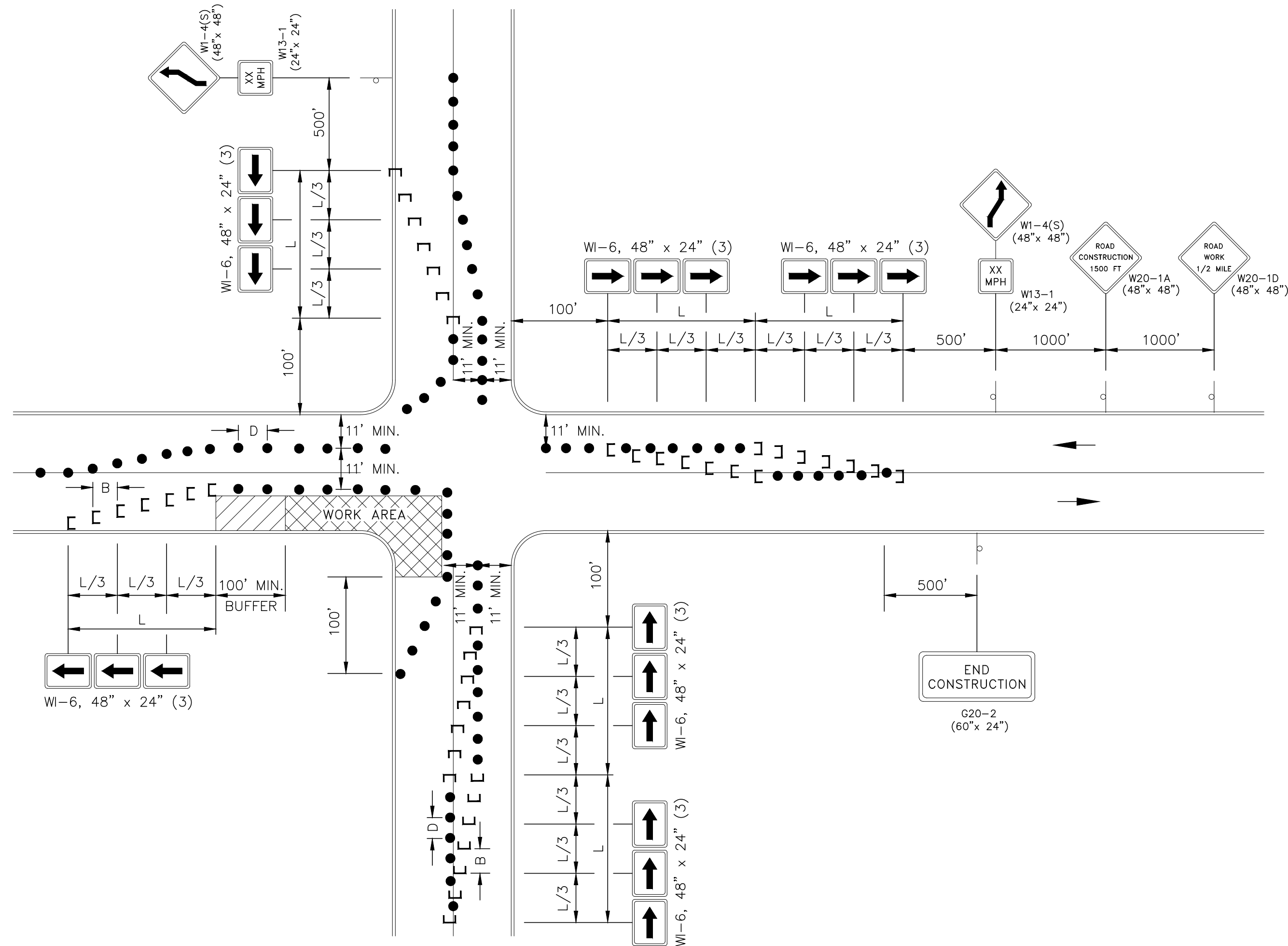
SINGLE POST	- 4" x 6";
TWO POSTS	- 3" x 6" OR
	- 4" x 5";
THREE POSTS	- 3" x 5" OR
	- 4" x 4"
3. NO BRACING IS PERMITTED. VERTICAL CLEARANCES FOR SIGNS MOUNTED ON WOOD SUPPORTS SHALL BE 7' DESIRABLE, 6' MINIMUM IMBEDMENT DEPTH FOR THE WOOD POST SHALL NOT EXCEED 3.5'.
4. STEEL OR ALUMINUM POSTS SHALL BE IN ACCORDANCE WITH THE STANDARD DETAIL FOR "SELECTING DIRECTIONAL SIGNS, CONSTRUCTION AND "M", "W" AND "R" BENDAWAY SIGN SUPPORTS".
5. TEMPORARY SIGN SUPPORTS NOT MEETING THIS CRITERIA SHALL BE SHIELDED BY A LONGITUDINAL BARRIER OR CRASH CUSHION.

### SIGN FACES

1. SIGN FACES SHALL BE REFLECTIVE SHEETING CONFORMING TO SUBSECTION 916.06 TYPE 1V-B SHEETING.

### FASTENING

1. SIGN FACES SHALL BE SECURELY FASTENED TO THEIR SUPPORTS WITH BOLTS, NUTS AND WASHERS OF ALUMINUM (2024-T4 ALLOY) OR HOT-DIP GALVANIZED STEEL (A.S.T.M. 153).



## TYPICAL 2 LANES, UNDIVIDED, INTERSECTION TRAFFIC CONTROL PLAN

N.T.S.

\* ALONG WORK AREA D (IN FEET) = REGULATORY SPEED IN M.P.H.

**RVE**  
1901

**REMINGTON & VERNICK ENGINEERS**  
429 STATE ROUTE 79, SUITE 21  
MORGANVILLE, NJ 07751  
(732) 955-8000, FAX (732) 591-2815  
WEB ADDRESS : RVE.COM  
Certification of Authorization: 24 GA 28003300  
**Excellence • Innovation • Service**

DATE: 9/18/25  
**TERENCE M. VOGT**  
NJ PROFESSIONAL ENGINEER LIC. NO. 33773

DATE: 9/18/25  
**MOSTAFA RAZZAGHMANESH**  
NJ PROFESSIONAL ENGINEER LIC. NO. 56622

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

DATE	BY	REVISION
9/18/25	SCD/VD	
1	REISSUED FOR REDO	

## TRAFFIC CONTROL PLAN

CITY OF SUMMIT  
LORRAINE ROAD, LORRAINE PLACE  
SHERMAN AVENUE ROAD IMPROVEMENTS  
CITY OF SUMMIT  
UNION COUNTY  
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
DRB	JF	TV	AS NOTED
DATE:		SHEET No.:	
03-17-2024		24 of 24	
JOB No.:			
2018-T-009			