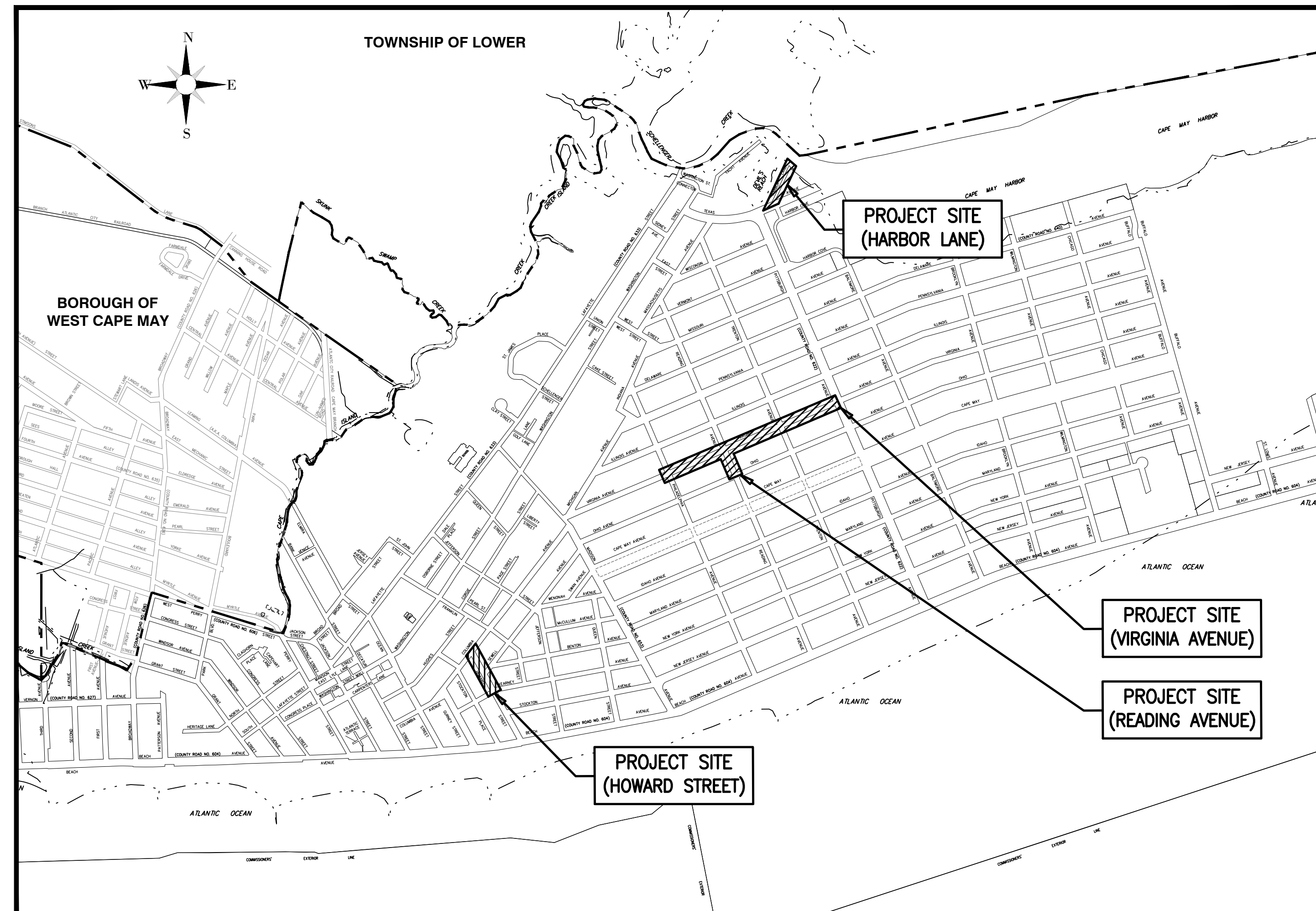


FY2026 NJ WATER BANK NO. S340258-04

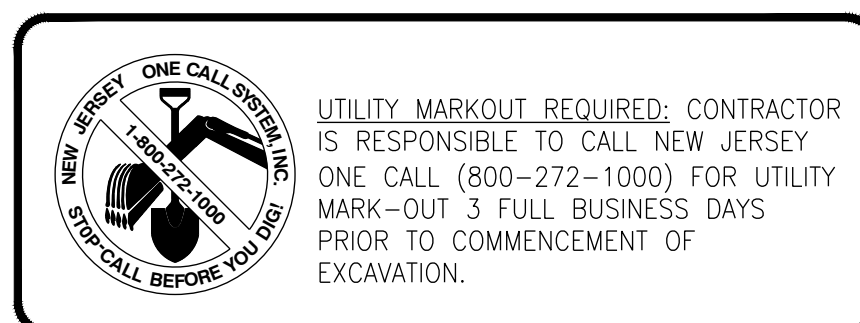
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS

UTILITIES	
PUBLIC WORKS:	CITY OF CAPE MAY PUBLIC WORKS DEPARTMENT ERIC PRUSINSKI, SUPERINTENDENT 830 CANNING HOUSE LANE CAPE MAY, NJ 08204 609-884-9570
SEWER:	CITY OF CAPE MAY SEWER DEPARTMENT ROBERT CUMMISKEY, SUPERINTENDENT 643 WASHINGTON STREET CAPE MAY, NJ 08204 609-884-9576 CAPE MAY COUNTY M.U.A. MICHAEL PULLANO, P.E. 1523 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609-465-9026
WATER:	CITY OF CAPE MAY WATER DEPARTMENT ROBERT CUMMISKEY, SUPERINTENDENT 643 WASHINGTON STREET CAPE MAY, NJ 08204 609-884-9576
ELECTRIC:	ATLANTIC CITY ELECTRIC COMPANY KENNETH ATWOOD 420 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 267-533-1665
CABLE:	COMCAST CABLE JIM FAULKNER 1846 NW BOULEVARD VINELAND, NJ 08360 800-934-6489
GAS:	SOUTH JERSEY GAS COMPANY JEREMIAH LIN 1708 ROUTE 9 NORTH CAPE MAY COURT HOUSE, NJ 08210 609-465-2900
TELEPHONE:	VERIZON ENGINEERING DEPARTMENT RYAN LOCHONIC 10 TANSBORO ROAD, FLOOR 2 BERLIN, NJ 08009 856-306-8589
COUNTY ROADS:	CAPE MAY COUNTY PUBLIC WORKS ROBERT CHURCH, P.E. 4 MOORE ROAD CAPE MAY COURT HOUSE, NJ 08210 609-465-1035



PROJECT LOCATION MAP

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7	UTILITY PLAN & PROFILE (READING AVENUE)
8	UTILITY PLAN & PROFILE (HARBOR LANE)
9	UTILITY PLAN & PROFILE (HOWARD STREET)
10 - 13	ROADWAY PLAN & PROFILE (VIRGINIA AVENUE)
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23	TRAFFIC CONTROL PLAN & DETAILS



CITY OF CAPE MAY

CAPE MAY COUNTY, NEW JERSEY

2019 N.J.D.O.T. STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE
CONSTRUCTION SHALL GOVERN, EXCEPT FOR THOSE DETAILS CONTAINED HEREIN

STANDARD N.J.D.O.T. ROADWAY CONSTRUCTION-TRAFFIC CONTROL-BRIDGE CONSTRUCTION DETAILS
BOOKLET, 2016 ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN.

TITLE SHEET

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
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Certification of Authorization No. 246A28284900

**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

Design:	Drawn:	Check:	Date:
RFR	RFR	MAD	03/23/2026

Scale: AS NOTED
Sheet No: 1 of 23

STATE OF NEW JERSEY
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599
3/23/2026

NO.	DATE	APPR.	REVISION

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ESTIMATE OF QUANTITIES

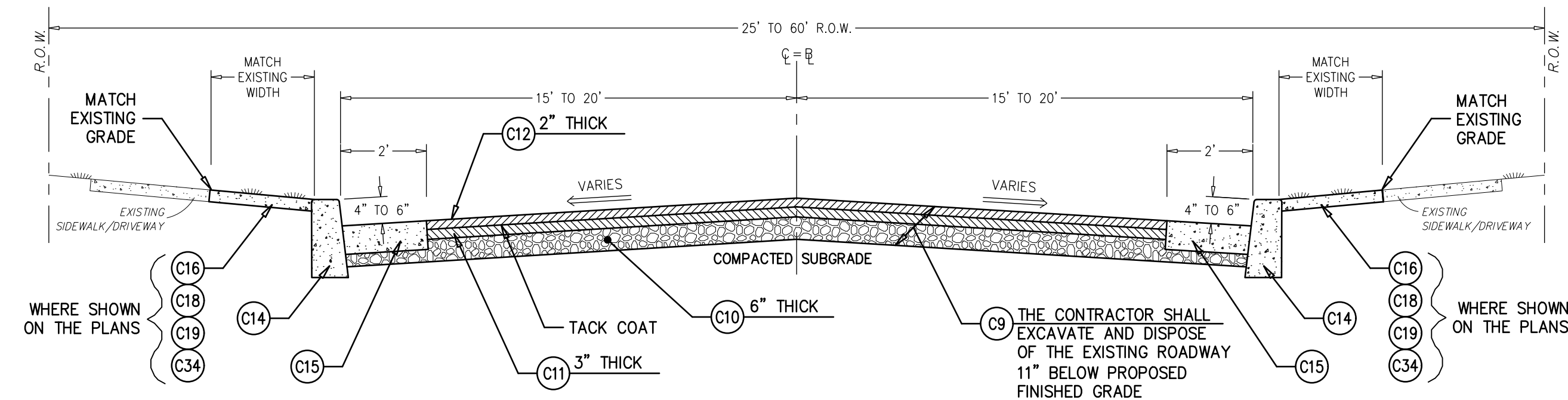
ITEM NO.	DESCRIPTION	UNIT	PLAN QUANTITY	IF & WHERE DIRECTED	CONTRACT QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS						
C1	MOBILIZATION (IN ACCORDANCE WITH N.J.A.C. 7:14-2.9)	LUMP SUM	LUMP SUM	0	LUMP SUM	
C2	SOIL EROSION CONTROL AND WATER QUALITY CONTROL (MINIMUM BID PRICE \$5,000.00)	LUMP SUM	LUMP SUM	0	LUMP SUM	
C3	(ENVIRONMENTAL & CULTURAL RESOURCE PROTECTION & RESORATION (MINIMUM BID PRICE \$3,000.00)	LUMP SUM	LUMP SUM	0	LUMP SUM	
C4	ENVIRONMENTAL MAINTENANCE BOND (MINIMUM OF \$25,000 OR 50 PERCENT OF THE PRICE BID FOR FULFILLING THE REQUIREMENTS OF THE ENVIRONMENTAL SPECIFICATIONS)	LUMP SUM	LUMP SUM	0	LUMP SUM	
C5	MAINTENANCE AND PROTECTION OF TRAFFIC	LUMP SUM	LUMP SUM	0	LUMP SUM	
C6	CLEARING SITE	LUMP SUM	LUMP SUM	0	LUMP SUM	
C7	FUEL PRICE ADJUSTMENT	DOLLAR	2,500	0	2,500	
C8	ASPHALT PRICE ADJUSTMENT	DOLLAR	4,500	0	4,500	
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	3,500	200	3,700	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	11,412	688	12,100	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	2,070	130	2,200	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	1,454	86	1,540	
C13	INLET FILTERS, TYPE 1	S.F.	360	30	390	
C14	8" x 18" CONCRETE VERTICAL CURB	L.F.	5,437	163	5,600	
C15	CONCRETE GUTTER, 8" THICK	L.F.	5,837	163	6,000	
C16	CONCRETE SIDEWALK, 4" THICK	S.Y.	211	114	325	
C17	DETECTABLE WARNING SURFACES	S.Y.	30	2	32	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	1,206	94	1,300	
C19	SODDING	S.Y.	1,374	76	1,450	
C20	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 26	L.F.	10	90	100	
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	2,658	142	2,800	
C22	10" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	10	90	100	
C23	12" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 26	L.F.	262	38	300	
C24	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 26 (IF & WHERE DIRECTED)	UNIT	0	5	5	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	88	7	95	
C26	SANITARY SEWER SERVICE LATERALS, 12" X 6" WYE, PVC SDR 26	UNIT	7	3	10	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	13	1	14	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	11	2	13	
C29	TRAFFIC MARKINGS LINES, 24"	L.F.	1,092	108	1,200	
C30	TRAFFIC MARKINGS LINES, 4"	L.F.	697	53	750	
C31	TRAFFIC STRIPES, 4"	L.F.	336	24	360	
C32	RESET BRICK PAVERS	S.Y.	7	8	15	
C33	STEEL CURB TREE PLATE (IF & WHERE DIRECTED)	L.F.	0	200	200	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION						
N1	TEST PITS (MINIMUM BID PRICE = \$250.00/C.Y.)	C.Y.	33	17	50	
N2	STONE FOUNDATION (BEDDING) (MINIMUM BID PRICE = \$20.00/C.Y.)	C.Y.	186	64	250	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE) (MINIMUM BID PRICE = \$15.00/C.Y.)	C.Y.	1,213	137	1,350	
N4	CLEAN AND TELEWISE SANITARY SEWER	L.F.	2,930	370	3,300	
N5	CONCRETE CRADLE (IF & WHERE DIRECTED) (MINIMUM BID PRICE = \$500.00/C.Y.)	C.Y.	0	10	10	
NJ WATER BANK - CLEAN WATER NON-PARTICIPATING ITEMS						
D1	CLEARING SITE	LUMP SUM	LUMP SUM	0	LUMP SUM	
D2	WATER SERVICES (COPPER), 1" - COMPLETE	UNIT	57	3	60	
D3	WATER SERVICES (COPPER), 2" - COMPLETE (IF & WHERE DIRECTED)	UNIT	0	2	2	
D4	8" C900 POLYVINYL CHLORIDE (PVC) WATER MAIN	L.F.	1,285	65	1,350	
D5	8" DUCTILE IRON 45 DEGREE BENDS	UNIT	4	0	4	
D6	8" GATE VALVES AND BOXES	UNIT	1	1	2	
D7	CONNECT TO EXISTING WATER MAIN	UNIT	2	0	2	
D8	FIRE HYDRANT ASSEMBLIES, COMPLETE	UNIT	1	0	1	
D9	GROUT EXISTING WATER MAIN	C.Y.	17	3	20	
D10	CUT & CAP EXISTING WATER MAIN	UNIT	2	0	2	
D11	EXCAVATION, TEST PIT	C.Y.	6	4	10	
D12	SELECT FILL (MINIMUM BID PRICE = \$12.00/C.Y.)	C.Y.	940	60	1,000	
D13	UTILITY CROSSINGS (IF & WHERE DIRECTED)	UNIT	0	2	2	

GENERAL NOTES

- SITE CONSTRUCTION TO BE IN ACCORDANCE WITH NEW JERSEY STATE DEPARTMENT OF TRANSPORTATION STANDARDS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 (LATEST ADDENDUM), WHICH SHALL GOVERN. 2016 STANDARD CONSTRUCTION DETAILS - ROADWAY - TRAFFIC CONTROL - BRIDGE ARE APPLICABLE TO THIS PROJECT EXCEPT FOR THOSE DETAILS CONTAINED HEREIN. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UNDERGROUND ELECTRICAL CONDUIT AND IDENTIFY SAME PRIOR TO STARTING ANY EXCAVATION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWNSHIP, COUNTY, AND STATE AND SHALL PAY ALL FEES, INCLUDING THE INSPECTION FEES, AND IN GENERAL SHALL PROCURE ALL REQUIRED PERMITS, LICENSES, INSPECTIONS, PAY ALL CHARGES AND FEES, AND GIVE NOTICES NECESSARY FOR AND INCIDENTAL TO THE DUE AND LAWFUL PROSECUTION OF THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING THE PAVING, TOPSOIL, FERTILIZING AND SEEDING ALL AREAS DISTURBED BY HIS ACTIVITIES. INSPECTION OF, OR FAILURE TO INSPECT ANY MATERIALS OR WORKMANSHIP, SHALL IN NO WAY RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM THE WORK IN ACCORDANCE WITH APPLICABLE PLANS, SPECIFICATIONS, AND LAW.
- THE CONTRACTOR WILL PRESERVE AND PROTECT ALL EXISTING VEGETATION, SUCH AS TREES, SHRUBS, AND GRASS ON OR ADJACENT TO THE SITE, WHICH DO NOT REASONABLY INTERFERE WITH THE CONSTRUCTION AS MAY BE DETERMINED BY THE DESIGN ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR UNAUTHORIZED CUTTING OR DAMAGING OF TREES AND SHRUBS, MATERIALS, OR TRACKING OF GRASS AREAS BY EQUIPMENT. CARE SHALL BE TAKEN BY THE CONTRACTOR IN FELLING TREES AUTHORIZED FOR REMOVAL TO AVOID ANY UNNECESSARY DAMAGE TO VEGETATION THAT IS TO REMAIN IN PLACE. THE CONTRACTOR SHALL BE LIABLE FOR OR MAY BE REQUIRED TO REPLACE OR RESTORE, AT HIS EXPENSE, ALL VEGETATION NOT PROTECTED AND PRESERVED AS REQUIRED HEREIN THAT MAY BE DESTROYED OR DAMAGED.
- THE CONTRACTOR SHALL ACKNOWLEDGE PRIOR TO CONSTRUCTION THAT HE/SHE HAS SATISFIED THEMSELVES AS TO THE NATURE AND LOCATION OF THE WORK, THE GENERAL AND LOCAL CONDITIONS, PARTICULARLY THOSE BEARING ON TRANSPORTATION, HANDLING AND STORAGE OF MATERIALS, THE CHARACTER OF THE EQUIPMENT AND FACILITIES NEEDED DURING THE PROSECUTION OF THE WORK AND ALL OTHER MATTERS WHICH CAN IN ANY WAY AFFECT THE WORK OR THE COST THEREOF UNDER THIS CONTRACT. ANY FAILURE OF THE CONTRACTOR TO ACQUAINT THEMSELVES WITH THE AVAILABLE INFORMATION CONCERNING THOSE CONDITIONS WILL NOT RELIEVE HIM FROM RESPONSIBILITY FOR ESTIMATING PROPERLY THE DIFFICULTIES OR COST OF SUCCESSFULLY PERFORMING THE WORK.
- ALL MATERIALS, METHODS, AND DETAILS OF IMPROVEMENT CONSTRUCTION SHALL CONFORM TO THE REGULATIONS OF CITY OF CAPE MAY, CAPE MAY COUNTY, AND/OR THE APPROPRIATE UTILITY COMPANY, WHICHEVER REGULATION TAKES PRECEDENCE.
- ALL CONCRETE FOR SIDEWALKS AND CURB SHALL BE OF A MIX TO ENSURE A 28 DAY STRENGTH OF 4,000 PSI AND HAVE A MINIMUM AIR CONTENT OF 5%.
- THE CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR ENSURING THAT ALL WORK PERFORMED CONFORMS TO ALL THE APPLICABLE STATUTES, REGULATIONS, ORDINANCES, AND STANDARDS OF GOVERNMENTAL BODIES HAVING JURISDICTION OVER SUCH WORK. THE RESPONSIBILITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - CONFORMITY WITH THE APPROVED PLANS AS WELL AS STANDARDS AND SPECIFICATIONS OF THE CITY OF CAPE MAY.
 - CORRECTION OF ALL DEFECTS OF THE WORK, NO MATTER WHAT THE CAUSE, UNTIL THE DATE OF THE ACCEPTANCE, AND THEREAFTER, FOR THE PERIOD OF ANY GUARANTEE WHICH RUNS BEYOND THE DATE OF ACCEPTANCE.
 - SOLUTION OF ANY PROBLEM, UNFORESEEN AT THE TIME OF THE APPROVAL OF THE PLAN, WHICH MAY OR DO IMPAIR THE INTEGRITY OF ANY IMPROVEMENTS, INCLUDING PROBLEMS SUCH AS HIGH GROUND WATER, UNSTABLE SOIL, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PUBLIC SAFETY AND SECURING THE SITE AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL PUBLIC RIGHTS OF WAY AND ADJACENT PROPERTIES CLEAN AND SAFE FROM EXCESSIVE DUST AND DEBRIS RESULTING FROM DEMOLITION AND/OR CONSTRUCTION.
- THE LOCATION OF ANY UTILITIES SHOWN ON THE PLANS ARE ONLY APPROXIMATE. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION PRIOR TO BEGINNING EXCAVATION OR COMMENCING CONSTRUCTION AND SHALL BE FULLY RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE VICINITY OF THE PROJECT. NEW JERSEY ONE CALL WILL PROVIDE FOR ON-SITE DELINEATION OF EXISTING UTILITIES UPON REQUEST (1-800-272-1000).
- EXISTING MATERIALS DESIGNATED FOR REMOVAL SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE OWNER.
- DISTURBED AREAS SHALL BE RESTORED AS SOON AS PRACTICAL.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE SITE CONDITIONS. THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK PRIOR TO THE RESOLUTION IF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL COORDINATE WATER MAIN SHUT DOWNS, RESETTING OF WATER VALVE BOXES, AND SANITARY CLEANOUTS WITH THE CAPE MAY CITY WATER AND SEWER DEPARTMENT.
- SEPARATE PAYMENT WILL NOT BE MADE FOR CONSTRUCTION LAYOUT, SAWCUTTING, SOIL EROSION AND SEDIMENT CONTROL MEASURES, DUST CONTROL, DEWATERING, BY-PASS PUMPING, CLEANING AND RESTORATIONS, REMOVAL AND DISPOSAL OF EXCESS MATERIALS OR UNWANTED MATERIALS OR DEBRIS, UNDER LAYER PREPARATION, PRIME COAT, TACK COAT, RELOCATIONS OF SIGNS OR MAILBOXES, CONDUCTORS OR CONDUITS DAMAGED DURING CONSTRUCTION, OR ANY OTHER STRUCTURES ENCOUNTERED UNLESS OTHERWISE INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL SUBMIT TO THE CITY OF CAPE MAY ASBUILTS PLANS AND SHALL IDENTIFY ALL CORRECTIONS THAT HAVE BEEN PERFORMED.
- LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT AND SEALED WITH HOT JOINT SEALER. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE HMA SURFACE PAVING.

LEGEND

EXISTING	PROPOSED



TYPICAL ROADWAY SECTION

N.T.S.

ESTIMATE OF QUANTITIES, NOTES, LEGEND & TYPICAL SECTION

DeBlasio & Associates
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VARIOUS SANITARY SEWER AND
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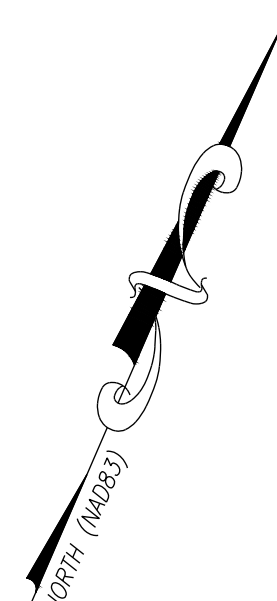
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STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
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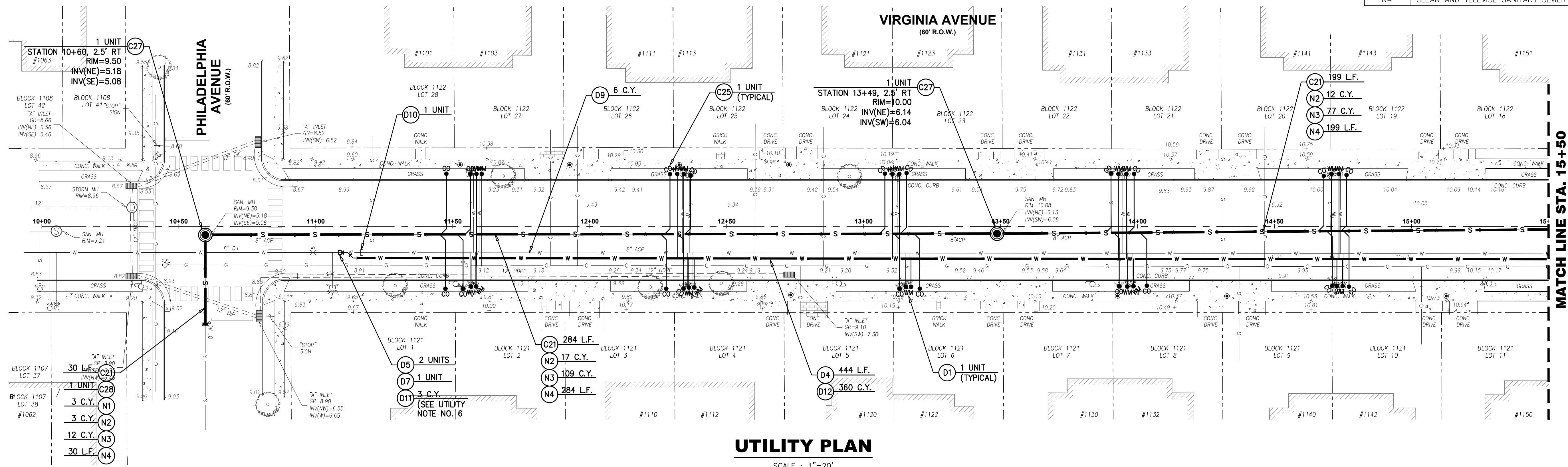
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Scale:	AS NOTED	Sheet No.:	2	Total:	23
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER NON-PARTICIPATING ITEMS				
D2	WATER SERVICES (COPPER), 1" - COMPLETE	UNIT	20	
D4	8" C900 POLYVINYL CHLORIDE (PVC) WATER MAIN	L.F.	444	
D5	8" DUCTILE IRON 45 DEGREE BENDS	UNIT	2	
D7	CONNECT TO EXISTING WATER MAIN	UNIT	1	
D9	GROUT EXISTING WATER MAIN	C.Y.	6	
D10	CUT & CAP EXISTING WATER MAIN	UNIT	1	
D11	EXCAVATION, TEST PIT	C.Y.	3	
D12	SELECT FILL	C.Y.	360	

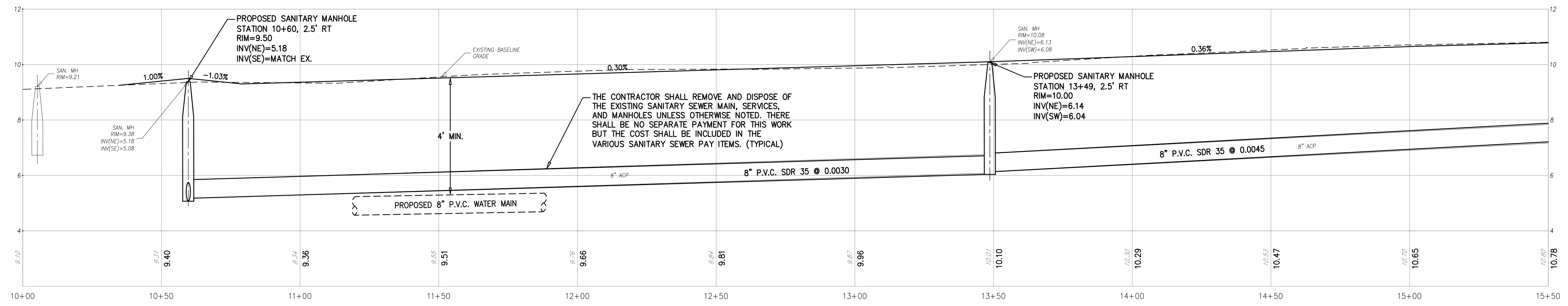
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	513	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	20	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	2	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	1	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N1	TEST PITS	C.Y.	3	
N2	STONE FOUNDATION (BEDDING)	C.Y.	32	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	198	
N4	CLEAN AND TELEVIEW SANITARY SEWER	L.F.	513	



UTILITY PLAN

SCALE : 1"=20'

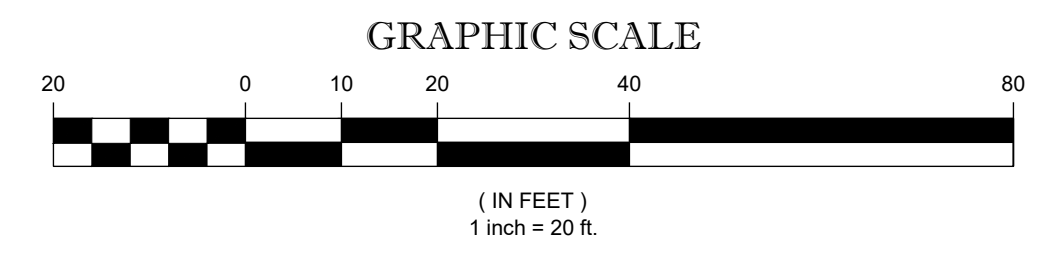
- SURVEY NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGL, N.J.P.L.S. NO. 35833, COMPLETED ON 1/5/2026.
 - ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
 - PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.



PROFILE

HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'

- UTILITY NOTES:**
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL REMOVE ALL ABANDONED WATER MAIN, VALVES, VALVE BOXES, HYDRANTS, SERVICES, METER BOXES AND LIDS, APPURTENANCES, ETC. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - IN ACCORDANCE WITH N.J.A.C. 7:10-11.10(E), ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATERTIGHT CONSTRUCTION (THAT IS, DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
 - THE CONTRACTOR SHALL CONFIRM PIPE INVERT ELEVATIONS AND REPORT ANY CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - ALL EXISTING WATER SERVICES EXCAVATED DURING THE REPLACEMENT OF THE WATER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR WATER SERVICES SHALL BE INCLUDED IN UNIT PRICE BID.
 - ALL EXISTING SANITARY SEWER LATERALS EXCAVATED DURING THE REPLACEMENT OF THE SANITARY SEWER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR SANITARY SEWER LATERALS SHALL BE INCLUDED IN UNIT PRICE BID.
 - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - THERE SHALL BE NO SEPARATE PAYMENT FOR THE REMOVAL AND DISPOSAL OF ASBESTOS CEMENT PIPE. PAYMENT SHALL BE INCLUDED UNDER THE PAY ITEM, "CLEARING SITE."
 - THE CONTRACTOR SHALL LAYOUT PROPOSED WATER VALVES OUTSIDE OF CROSSWALKS OR BIKE LANES, AND SHALL BE A MINIMUM OF THREE(3) FEET FROM THE PROPOSED TEE OR CROSS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE CITY'S WATER DEPARTMENT.



UTILITY PLAN & PROFILE (VIRGINIA AVENUE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

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FY2026 NJ WATER BANK NO. 340258-04
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

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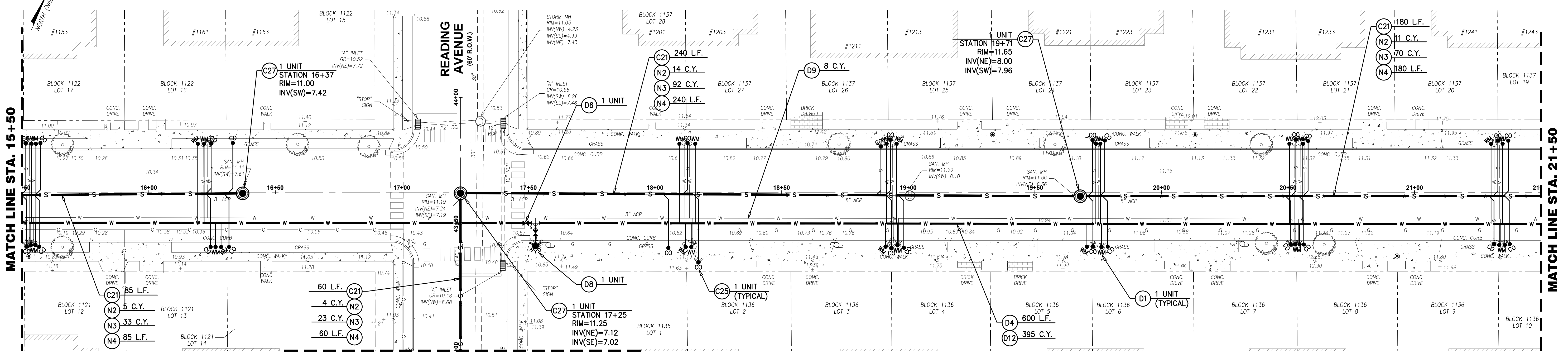
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MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

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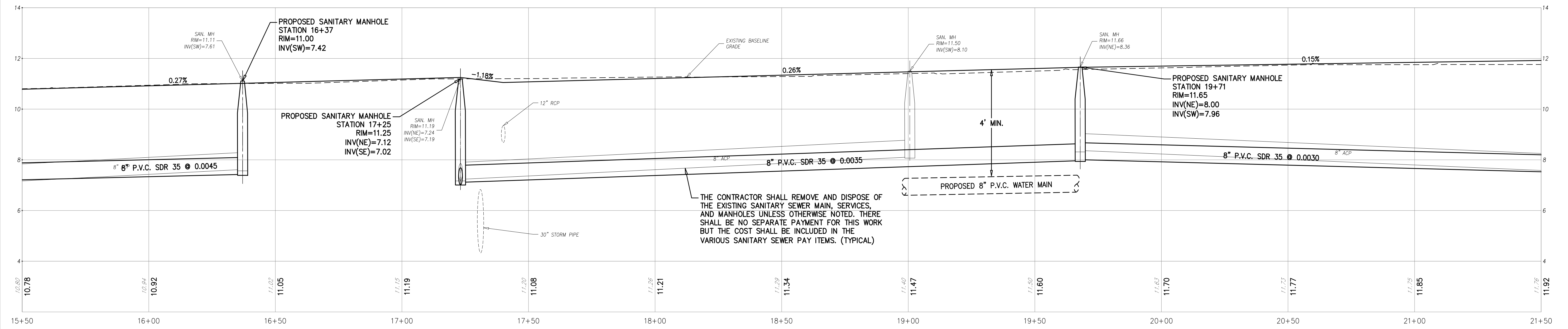
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER NON-PARTICIPATING ITEMS				
D2	WATER SERVICES (COPPER), 1" - COMPLETE	UNIT	28	
D4	8" C900 POLYVINYL CHLORIDE (PVC) WATER MAIN	L.F.	600	
D6	8" GATE VALVES AND BOXES	UNIT	1	
D8	FIRE HYDRANT ASSEMBLIES, COMPLETE	UNIT	1	
D9	GROUT EXISTING WATER MAIN	C.Y.	8	
D12	SELECT FILL	C.Y.	395	

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	565	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	27	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	3	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N2	STONE FOUNDATION (BEDDING)	C.Y.	34	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	218	
N4	CLEAN AND TELEWISE SANITARY SEWER	L.F.	565	



UTILITY PLAN
SCALE: 1"=20'

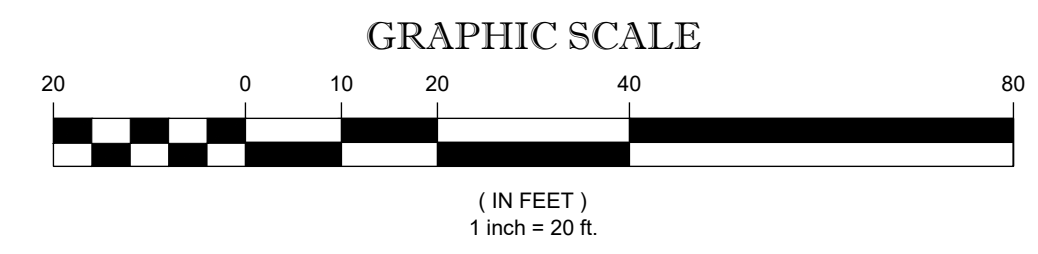


PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

- SURVEY NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 1/5/2026.
 - ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
 - PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.

- UTILITY NOTES:**
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL REMOVE ALL ABANDONED WATER MAIN, VALVES, VALVE BOXES, HYDRANTS, SERVICES, METER BOXES AND LIDS, APPURTENANCES, ETC. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - IN ACCORDANCE WITH N.J.A.C. 7:10-11.10(E), ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATERTIGHT CONSTRUCTION (THAT IS, DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.

- THE CONTRACTOR SHALL CONFIRM PIPE INVERT ELEVATIONS AND REPORT ANY CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
- ALL EXISTING WATER SERVICES EXCAVATED DURING THE REPLACEMENT OF THE WATER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR WATER SERVICES SHALL BE INCLUDED IN UNIT PRICE BID.
- ALL EXISTING SANITARY SEWER LATERALS EXCAVATED DURING THE REPLACEMENT OF THE SANITARY SEWER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR SANITARY SEWER LATERALS SHALL BE INCLUDED IN UNIT PRICE BID.
- THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THERE SHALL BE NO SEPARATE PAYMENT FOR THE REMOVAL AND DISPOSAL OF ASBESTOS CEMENT PIPE. PAYMENT SHALL BE INCLUDED UNDER THE PAY ITEM, "CLEARING SITE."
- THE CONTRACTOR SHALL LAYOUT PROPOSED WATER VALVES OUTSIDE OF CROSSWALKS OR BIKE LANES, AND SHALL BE A MINIMUM OF THREE(3) FEET FROM THE PROPOSED TEE OR CROSS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE CITY'S WATER DEPARTMENT.



UTILITY PLAN & PROFILE (VIRGINIA AVENUE)

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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Certification of Authorization No. 246A28284900

FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY

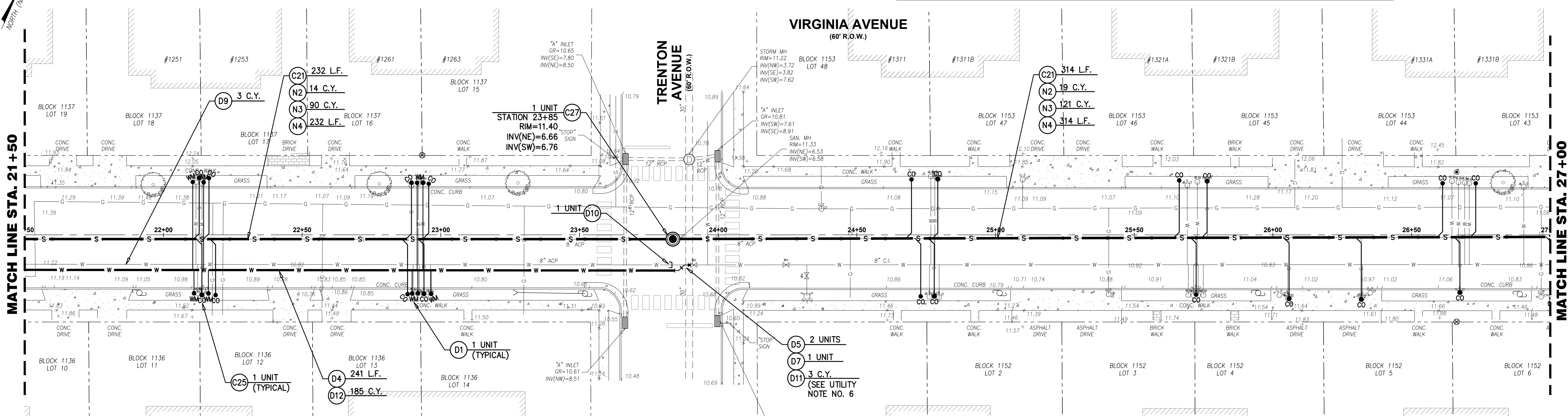
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Sheet No. 4
Total: 23

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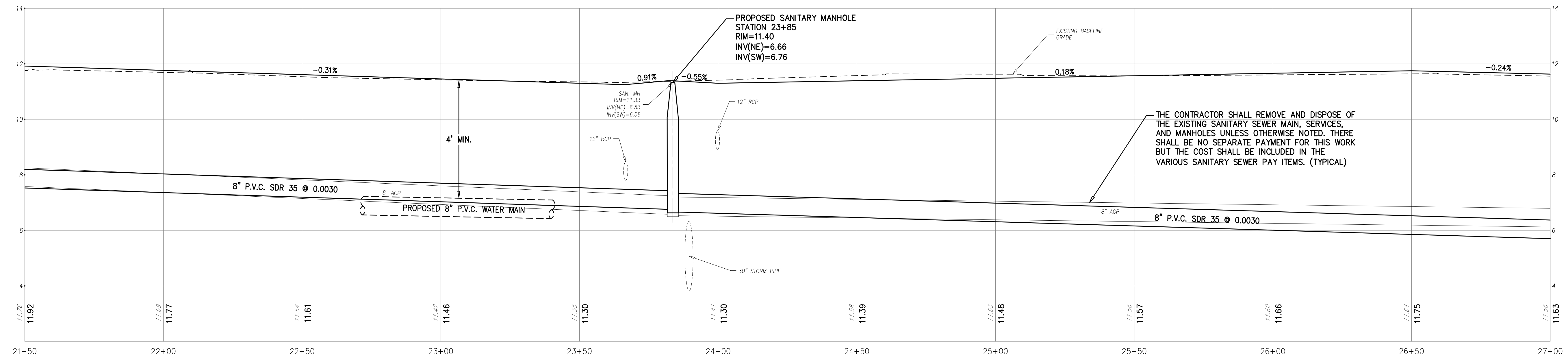
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER NON-PARTICIPATING ITEMS				
D2	WATER SERVICES (COPPER), 1" - COMPLETE	UNIT	9	
D4	8" C900 POLYVINYL CHLORIDE (PVC) WATER MAIN	L.F.	241	
D5	8" DUCTILE IRON 45 DEGREE BENDS	UNIT	2	
D7	CONNECT TO EXISTING WATER MAIN	UNIT	1	
D9	GROUT EXISTING WATER MAIN	C.Y.	3	
D10	CUT & CAP EXISTING WATER MAIN	UNIT	1	
D11	EXCAVATION, TEST PIT	C.Y.	3	
D12	SELECT FILL	C.Y.	185	

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	546	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	20	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	1	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N2	STONE FOUNDATION (BEDDING)	C.Y.	33	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	211	
N4	CLEAN AND TELEVIEW SANITARY SEWER	L.F.	546	



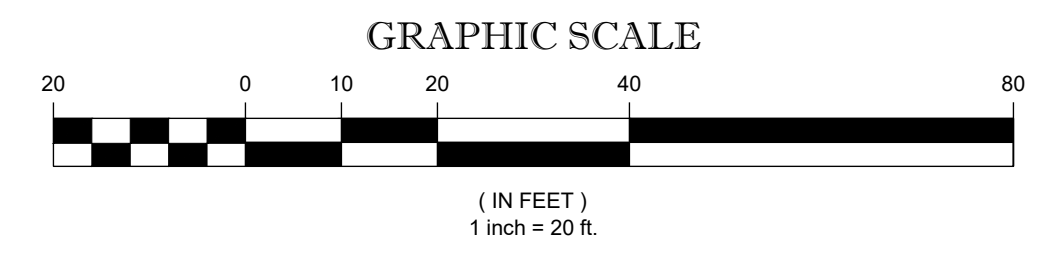
UTILITY PLAN
SCALE: 1"=20'

- SURVEY NOTES:**
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PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'

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 - ALL EXISTING SANITARY SEWER LATERALS EXCAVATED DURING THE REPLACEMENT OF THE SANITARY SEWER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR SANITARY SEWER LATERALS SHALL BE INCLUDED IN UNIT PRICE BID.
 - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - THERE SHALL BE NO SEPARATE PAYMENT FOR THE REMOVAL AND DISPOSAL OF ASBESTOS CEMENT PIPE. PAYMENT SHALL BE INCLUDED UNDER THE PAY ITEM, "CLEARING SITE."
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UTILITY PLAN & PROFILE (VIRGINIA AVENUE)

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Certification of Authorization No. 246A28284900

FY2026 NJ WATER BANK NO. 340258-04
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY, NEW JERSEY

Design:	Drawn:	Check:	Date:
RFI	RFI	MAD	03/23/2026

NO. DATE APPR. REVISION

STATE OF NEW JERSEY
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No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

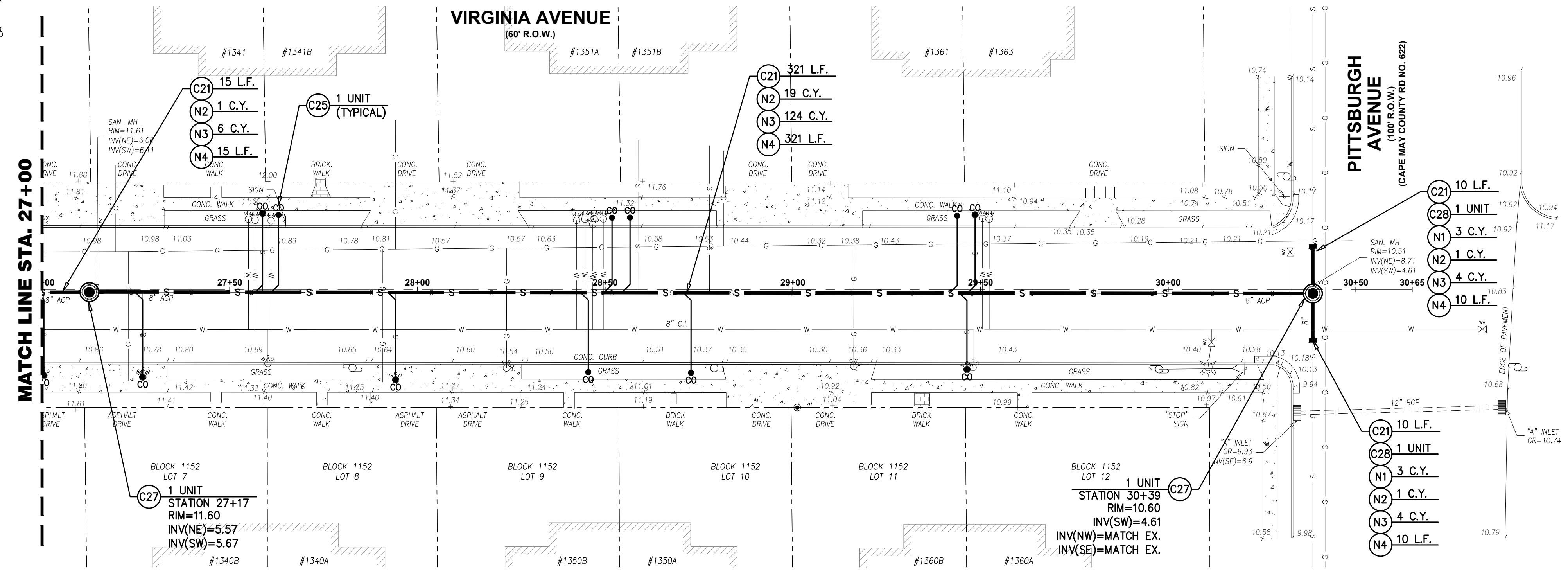
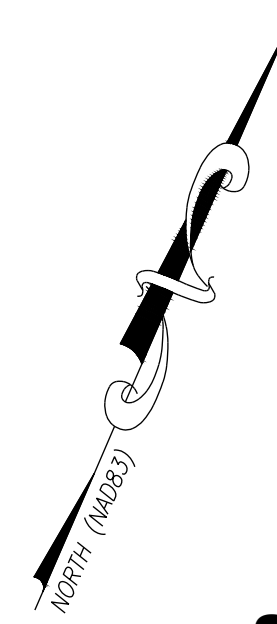
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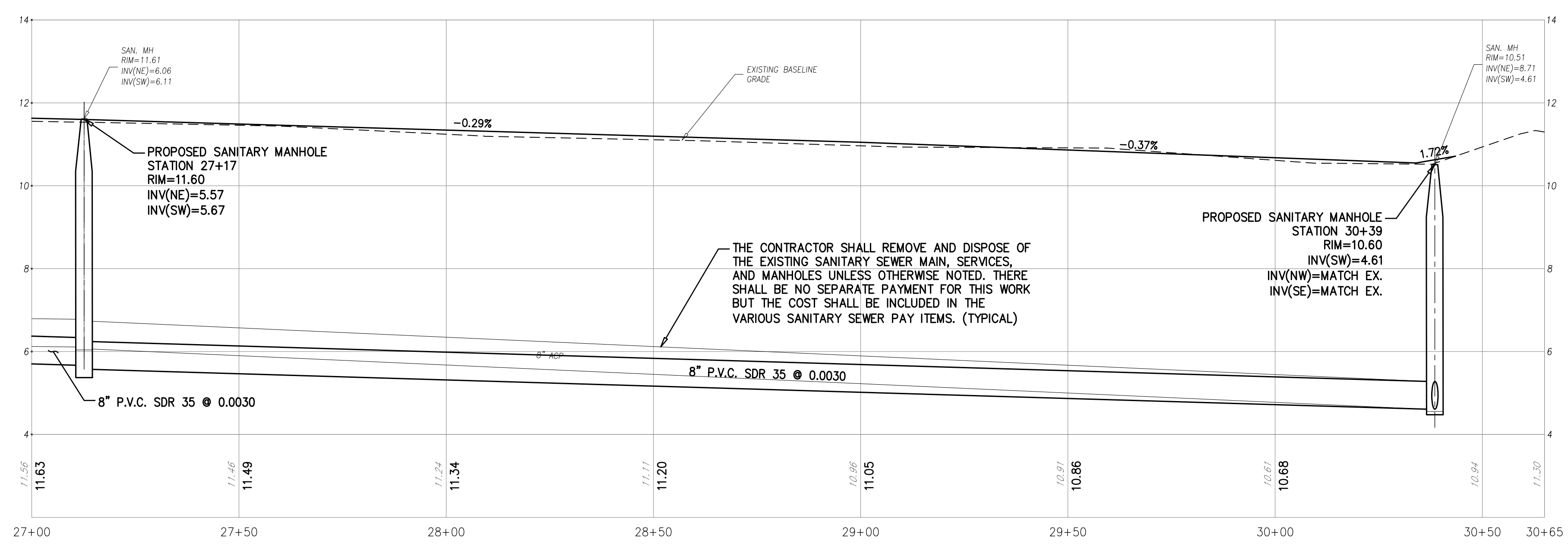
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	356	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	12	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	2	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	2	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N1	TEST PITS	C.Y.	6	
N2	STONE FOUNDATION (BEDDING)	C.Y.	22	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	138	
N4	CLEAN AND TELEVIEW SANITARY SEWER	L.F.	356	

- SURVEY NOTES:**
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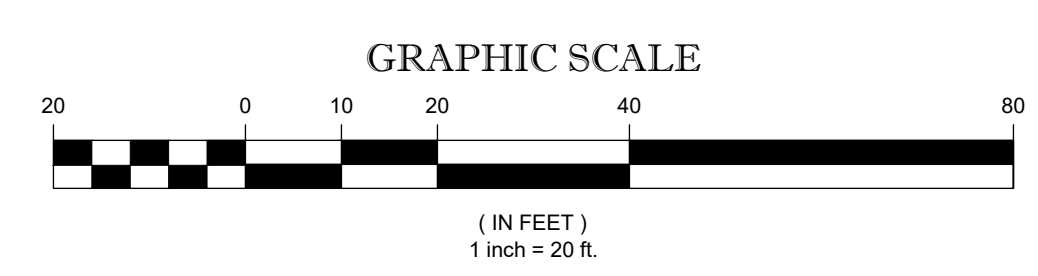
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 - THE CONTRACTOR SHALL CONFIRM PIPE INVERT ELEVATIONS AND REPORT ANY CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - ALL EXISTING SANITARY SEWER LATERALS EXCAVATED DURING THE REPLACEMENT OF THE SANITARY SEWER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR SANITARY SEWER LATERALS SHALL BE INCLUDED IN UNIT PRICE BID.
 - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - THERE SHALL BE NO SEPARATE PAYMENT FOR THE REMOVAL AND DISPOSAL OF ASBESTOS CEMENT PIPE. PAYMENT SHALL BE INCLUDED UNDER THE PAY ITEM, "CLEARING SITE."
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CAPE MAY COUNTY ROAD OPENING PERMIT FOR WORK WITHIN PITTSBURGH AVENUE (CAPE MAY COUNTY ROAD 622) RIGHT-OF-WAY. ALL COSTS ASSOCIATED WITH PERMIT ACQUISITION SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID FORM.



UTILITY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'



UTILITY PLAN & PROFILE (VIRGINIA AVENUE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

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FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY, NEW JERSEY

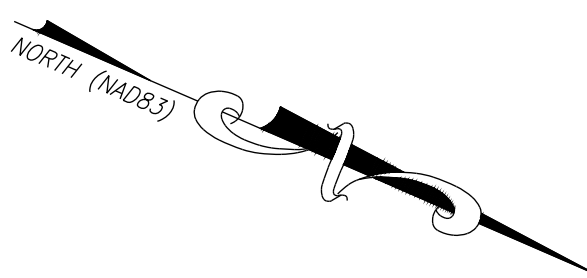
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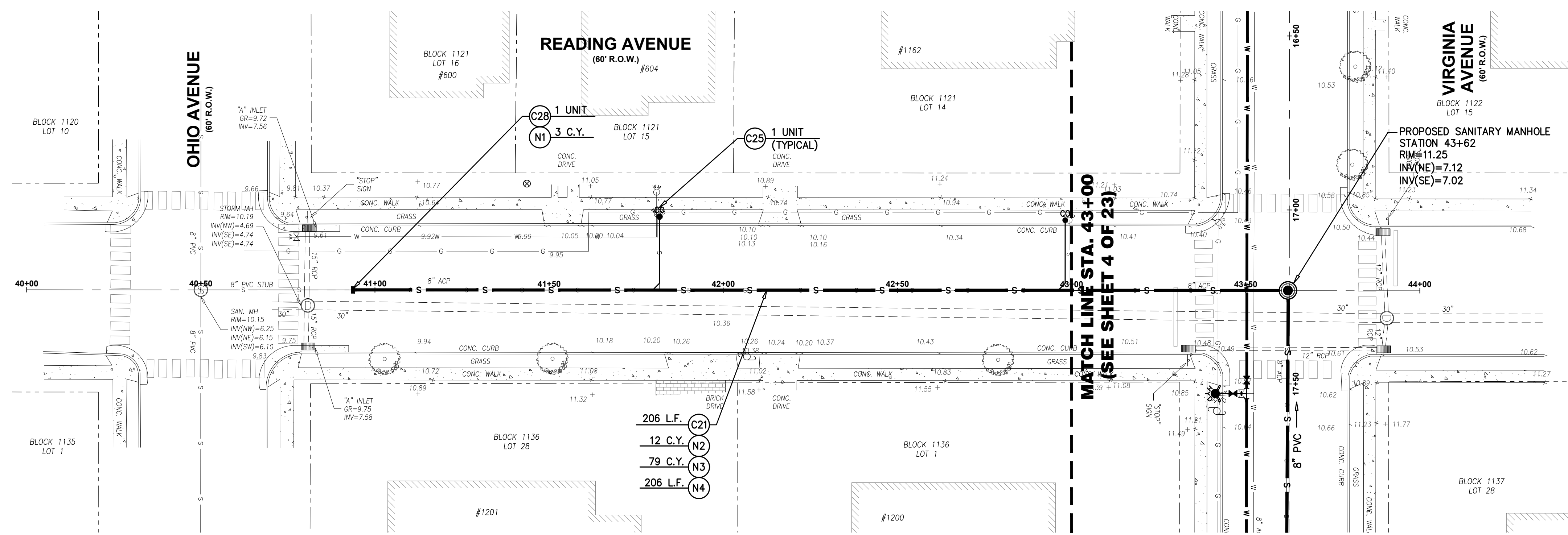
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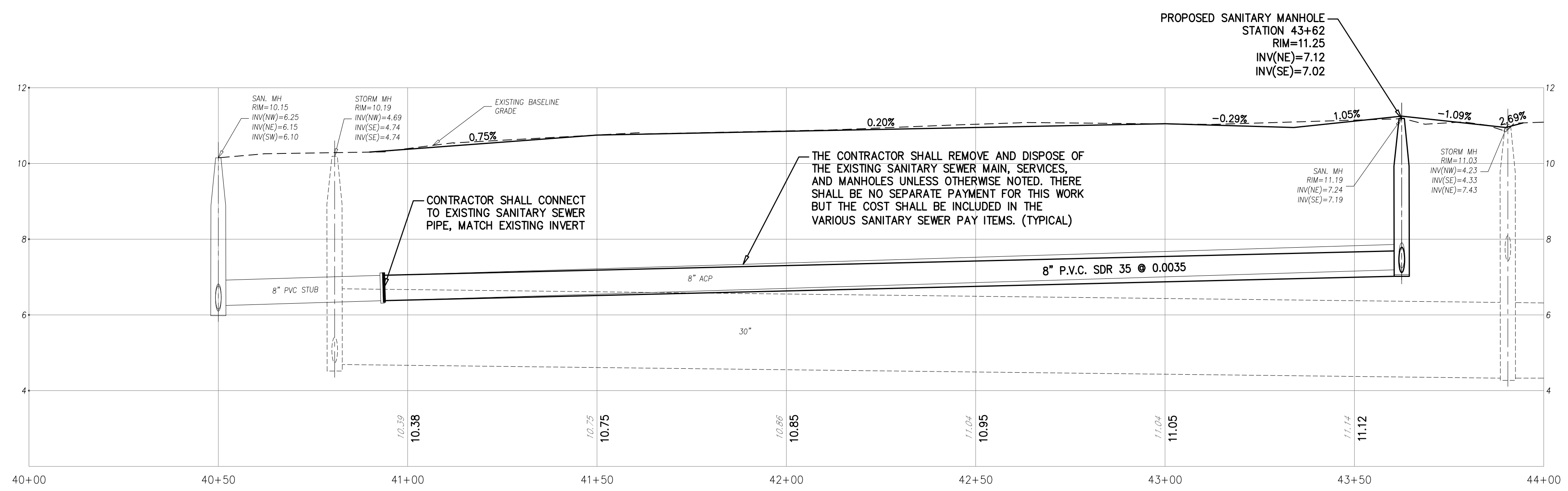
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	206	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	2	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	1	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N1	TEST PITS	C.Y.	3	
N2	STONE FOUNDATION (BEDDING)	C.Y.	12	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	79	
N4	CLEAN AND TELEVIEW SANITARY SEWER	L.F.	206	



UTILITY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'

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 - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
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UTILITY PLAN & PROFILE (READING AVENUE)

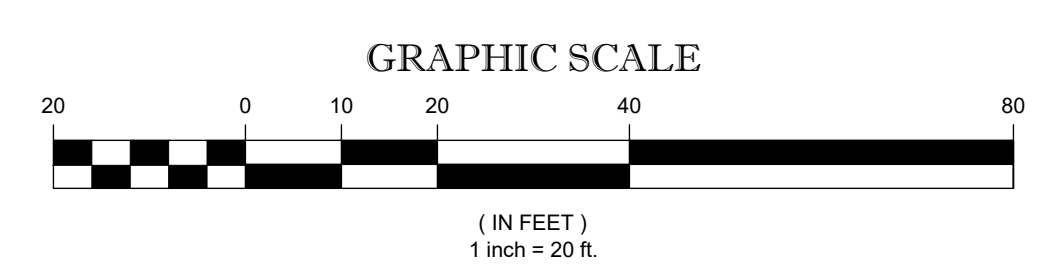
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WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

FY2026 NJ WATER BANK NO. 340258-04
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

Design:	Drawn:	Check:	Date:
RFR	RFR	MAD	03/23/2026

STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

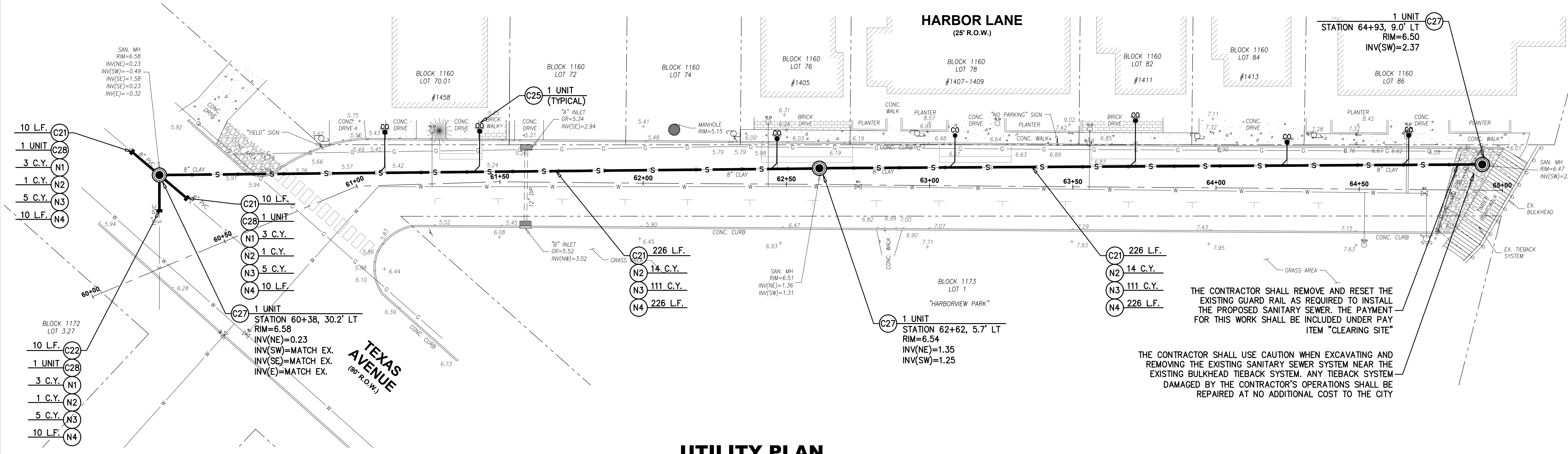


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No.	DATE	APPR.	REVISION

Scale: AS NOTED
Job No.: 246A-C-025
Sheet No.: 7
Total: 23

ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C21	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	472	
C22	10" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	10	
C25	SANITARY SEWER SERVICE LATERALS, 8" X 6" WYE, PVC SDR 35	UNIT	7	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	3	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	3	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N1	TEST PITS	C.Y.	9	
N2	STONE FOUNDATION (BEDDING)	C.Y.	31	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	237	
N4	CLEAN AND TELEVIEW SANITARY SEWER	L.F.	482	

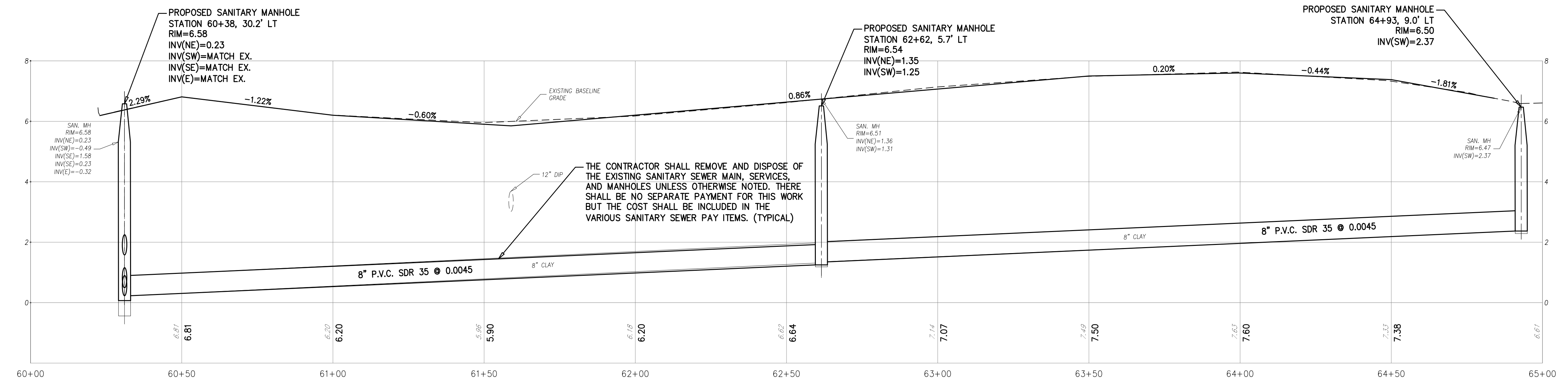


- SURVEY NOTES:**
- EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGL, N.J.P.L.S. NO. 35833, COMPLETED ON 1/5/2026.
 - ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
 - HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).
 - PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.
- UTILITY NOTES:**
- UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL REMOVE ALL ABANDONED WATER MAIN, VALVES, VALVE BOXES, HYDRANTS, SERVICES, METER BOXES AND LIDS, APPURTENANCES, ETC. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - IN ACCORDANCE WITH N.J.A.C. 7:10-11.0(E), ALL WATER MAINS AND SANITARY OR INDUSTRIAL SEWER LINES SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF 10 FEET. IF SUCH LATERAL SEPARATION IS NOT POSSIBLE, THE WATER AND SEWER LINES SHALL BE IN SEPARATE TRENCHES (STEP TRENCHES ARE PROHIBITED) WITH THE TOP OF THE SEWER LINE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN OR WITH SUCH OTHER SEPARATION EXPRESSLY APPROVED BY THE DEPARTMENT. AT CROSSINGS OF SEWER LINES AND WATER MAINS, THE TOP OF THE SEWER LINES SHALL BE AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN (SEWER SERVICE LATERALS ARE NOT SUBJECT TO THIS REQUIREMENT). IF SUCH VERTICAL SEPARATION IS NOT POSSIBLE, THE SEWER LINE SHALL BE OF WATERTIGHT CONSTRUCTION (THAT IS, DUCTILE IRON OR REINFORCED CONCRETE PIPE), WITH WATERTIGHT JOINTS THAT ARE A MINIMUM OF 10 FEET FROM THE WATER MAIN.
 - THE CONTRACTOR SHALL CONFIRM PIPE INVERT ELEVATIONS AND REPORT ANY CONFLICTS BETWEEN THE PROPOSED AND EXISTING UTILITIES IMMEDIATELY TO THE ENGINEER. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
 - ALL EXISTING WATER SERVICES EXCAVATED DURING THE REPLACEMENT OF THE WATER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR WATER SERVICES SHALL BE INCLUDED IN UNIT PRICE BID.
 - ALL EXISTING SANITARY SEWER LATERALS EXCAVATED DURING THE REPLACEMENT OF THE SANITARY SEWER MAIN WHETHER SHOWN ON THE PLANS OR LOCATED DURING CONSTRUCTION SHALL BE REPLACED UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR SANITARY SEWER LATERALS SHALL BE INCLUDED IN UNIT PRICE BID.
 - THE CONTRACTOR SHALL COMPLETE A TEST PIT TO DETERMINE THE DEPTH, SIZE AND MATERIAL OF THE EXISTING UTILITY IN QUESTION AND SUBMIT THIS INFORMATION TO THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
 - THERE SHALL BE NO SEPARATE PAYMENT FOR THE REMOVAL AND DISPOSAL OF ASBESTOS CEMENT PIPE. PAYMENT SHALL BE INCLUDED UNDER THE PAY ITEM, "CLEARING SITE."
 - THE CONTRACTOR SHALL LAYOUT PROPOSED WATER VALVES OUTSIDE OF CROSSWALKS OR BIKE LANES, AND SHALL BE A MINIMUM OF THREE(3) FEET FROM THE PROPOSED TREE OR CROSS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE CITY'S WATER DEPARTMENT.

THE CONTRACTOR SHALL REMOVE AND RESET THE EXISTING GUARD RAIL AS REQUIRED TO INSTALL THE PROPOSED SANITARY SEWER. THE PAYMENT FOR THIS WORK SHALL BE INCLUDED UNDER PAY ITEM "CLEARING SITE"

THE CONTRACTOR SHALL USE CAUTION WHEN EXCAVATING AND REMOVING THE EXISTING SANITARY SEWER SYSTEM NEAR THE EXISTING BULKHEAD TIEBACK SYSTEM. ANY TIEBACK SYSTEM DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL COST TO THE CITY

UTILITY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'

UTILITY PLAN & PROFILE (HARBOR LANE)

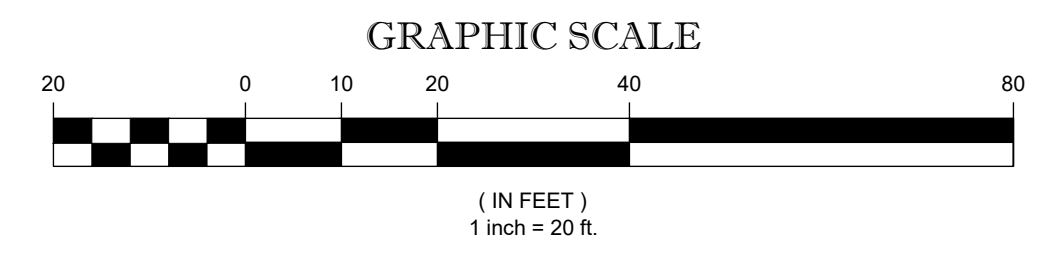
DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

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FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY

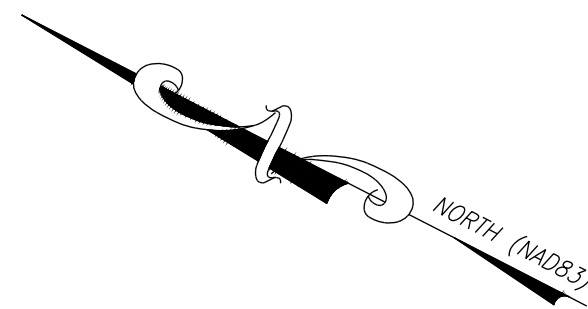
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RFR	RFR	MAD	03/23/2026

STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599



NO.	DATE	APPR.	REVISION

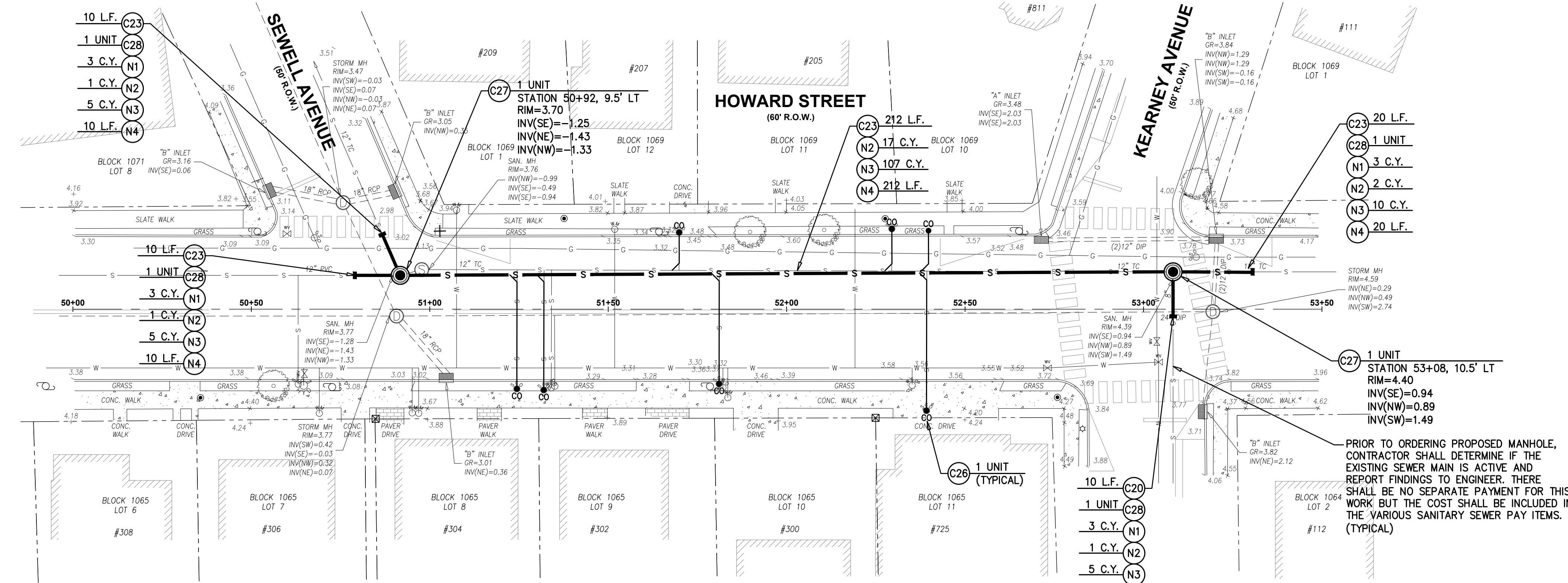
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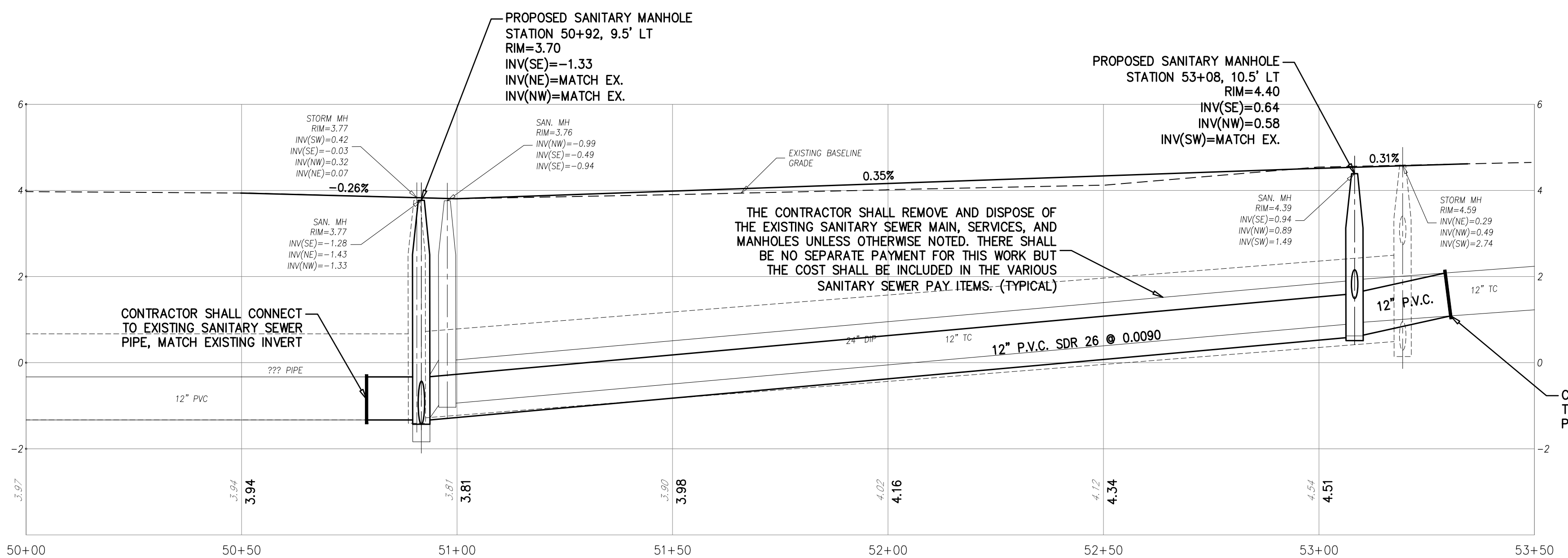
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C20	8" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 35	L.F.	10	
C23	12" POLYVINYL CHLORIDE (PVC) SANITARY SEWER MAIN, SDR 26	L.F.	262	
C26	SANITARY SEWER SERVICE LATERALS, 12" X 6" WYE, PVC SDR 26	UNIT	7	
C27	SANITARY SEWER MANHOLE, 4' DIAMETER	UNIT	2	
C28	CONNECT TO EXISTING SANITARY SEWER	UNIT	4	
N.J.A.C. 7:14-2.10 BID ITEMS FOR SEWER PIPE INSTALLATION				
N1	TEST PITS	C.Y.	12	
N2	STONE FOUNDATION (BEDDING)	C.Y.	22	
N3	SELECT MATERIAL (BELOW AND ABOVE PIPE GRADE)	C.Y.	132	
N4	CLEAN AND TELEWISE SANITARY SEWER	L.F.	262	

- SURVEY NOTES:**
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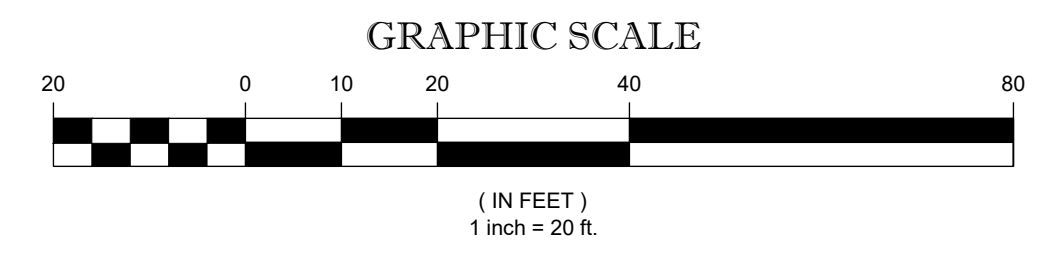
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UTILITY PLAN
SCALE: 1"=20'



PROFILE
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=2'



UTILITY PLAN & PROFILE (HOWARD STREET)

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

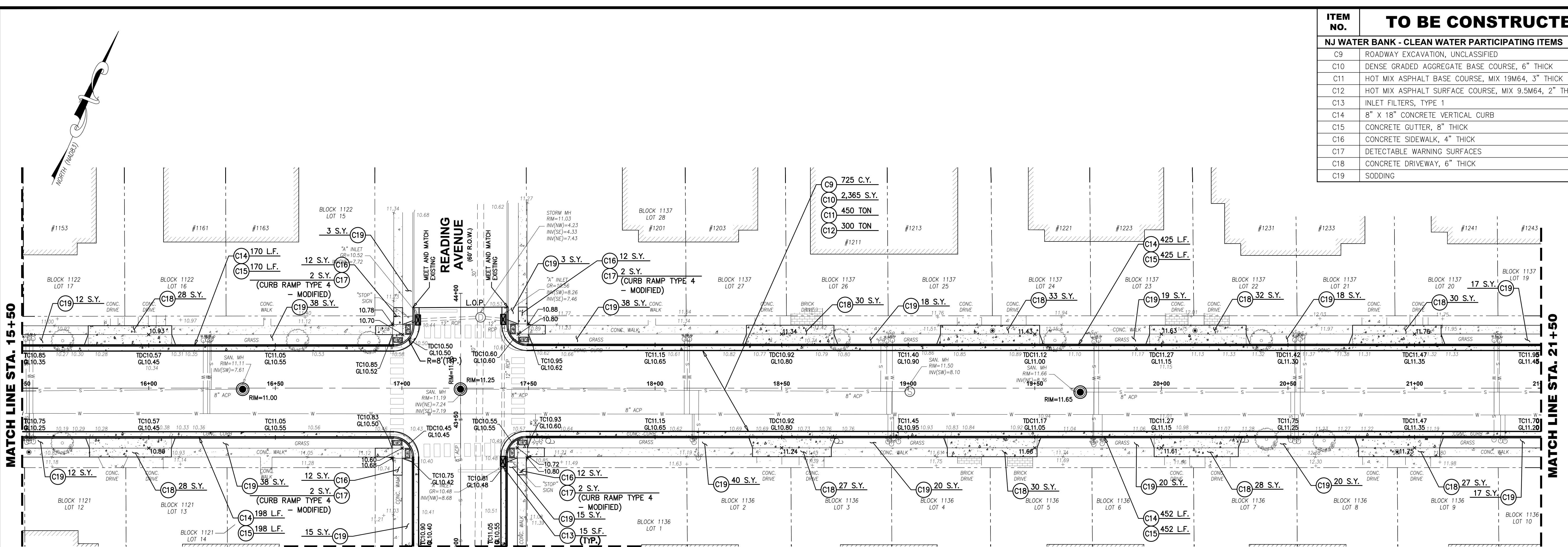
Design:	Drawn:	Check:	Date:
RFR	RFR	MAD	03/23/2026

STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

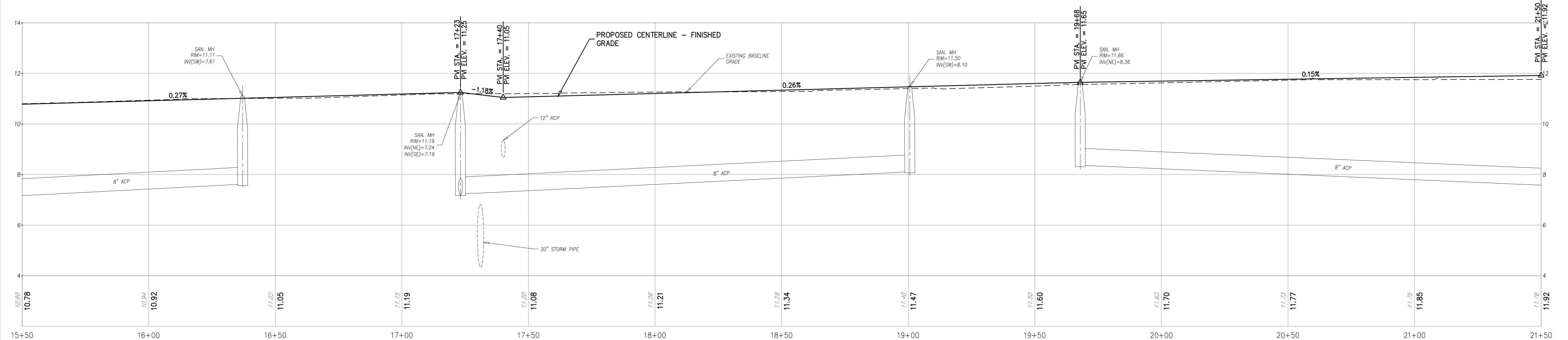
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	725	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	2,365	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	450	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	300	
C13	INLET FILTERS, TYPE 1	S.F.	45	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	1,245	
C15	CONCRETE GUTTER, 8" THICK	L.F.	1,245	
C16	CONCRETE SIDEWALK, 4" THICK	S.Y.	48	
C17	DETECTABLE WARNING SURFACES	S.Y.	8	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	293	
C19	SODDING	S.Y.	363	



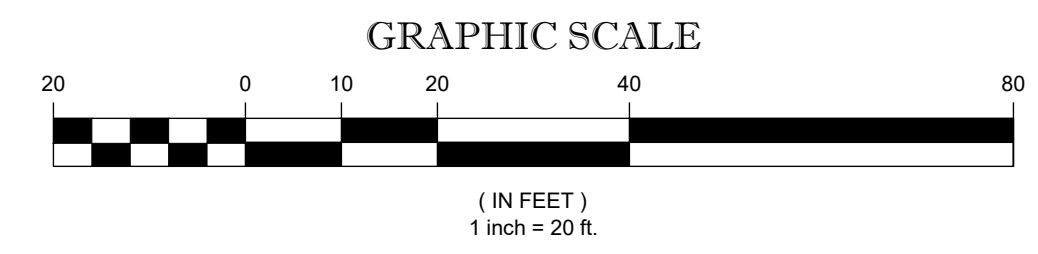
ROADWAY PLAN
 MATCH LINE STA. 15+50 MATCH LINE STA. 21+50
 MATCH LINE STA. 43+00 (SEE SHEET 14 OF 23)
 SCALE: 1"=20'



PROFILE
 HORIZONTAL SCALE: 1"=20'
 VERTICAL SCALE: 1"=2'

- SURVEY NOTES:**
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- ROADWAY NOTES:**
- LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER. MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE PAVING.
 - LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.



**ROADWAY
 PLAN & PROFILE
 (VIRGINIA AVENUE)**

**DEBLASIO &
 ASSOCIATES**
 ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
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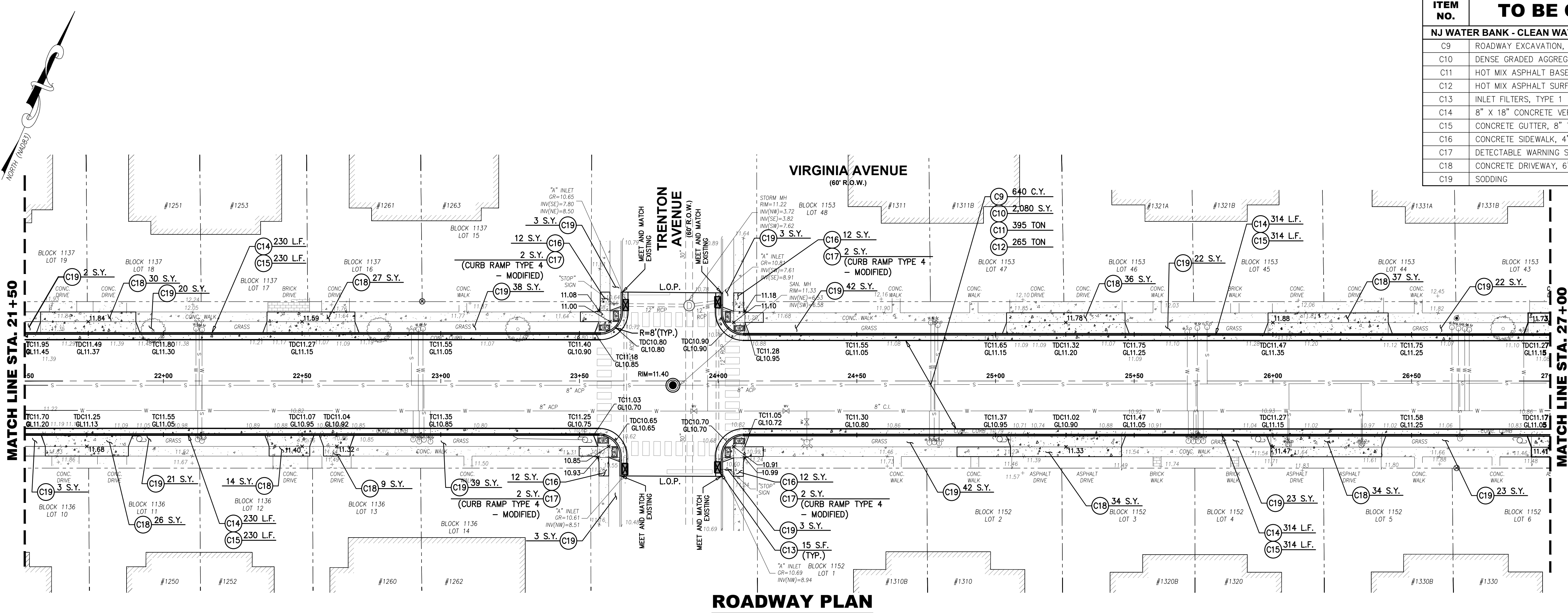
**FY2026 NJ WATER BANK
 NO. 340258-04
 VARIOUS SANITARY SEWER AND
 WATER MAIN IMPROVEMENTS
 CITY OF CAPE MAY
 CAPE MAY COUNTY, NEW JERSEY**

Design:	Drawn:	Check:	Date:
RFI	RFI	MAD	03/23/2026

MARC A. DEBLASIO, P.E.
 New Jersey License No. 41599
 Date: 3/23/2026

NO.	DATE	APPR.	REVISION

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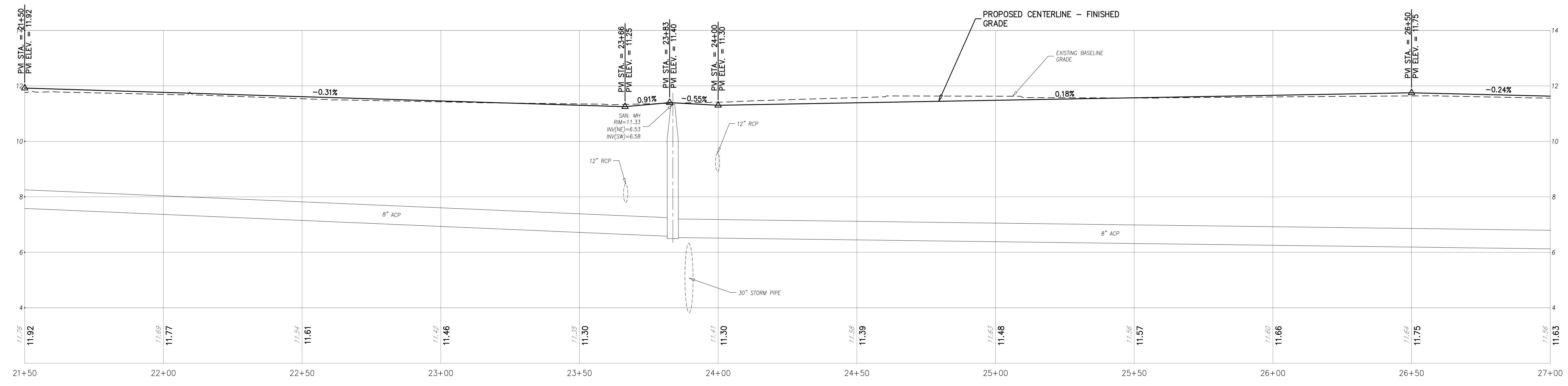


ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	640	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	2,080	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	295	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	265	
C13	INLET FILTERS, TYPE 1	S.F.	60	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	1,088	
C15	CONCRETE GUTTER, 8" THICK	L.F.	1,088	
C16	CONCRETE SIDEWALK, 4" THICK	S.Y.	8	
C17	DETECTABLE WARNING SURFACES	S.Y.	8	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	247	
C19	SODDING	S.Y.	309	

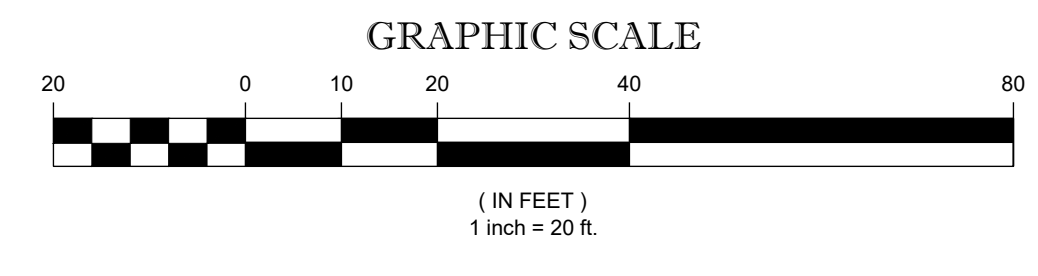
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 - LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.

ROADWAY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'



ROADWAY PLAN & PROFILE (VIRGINIA AVENUE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

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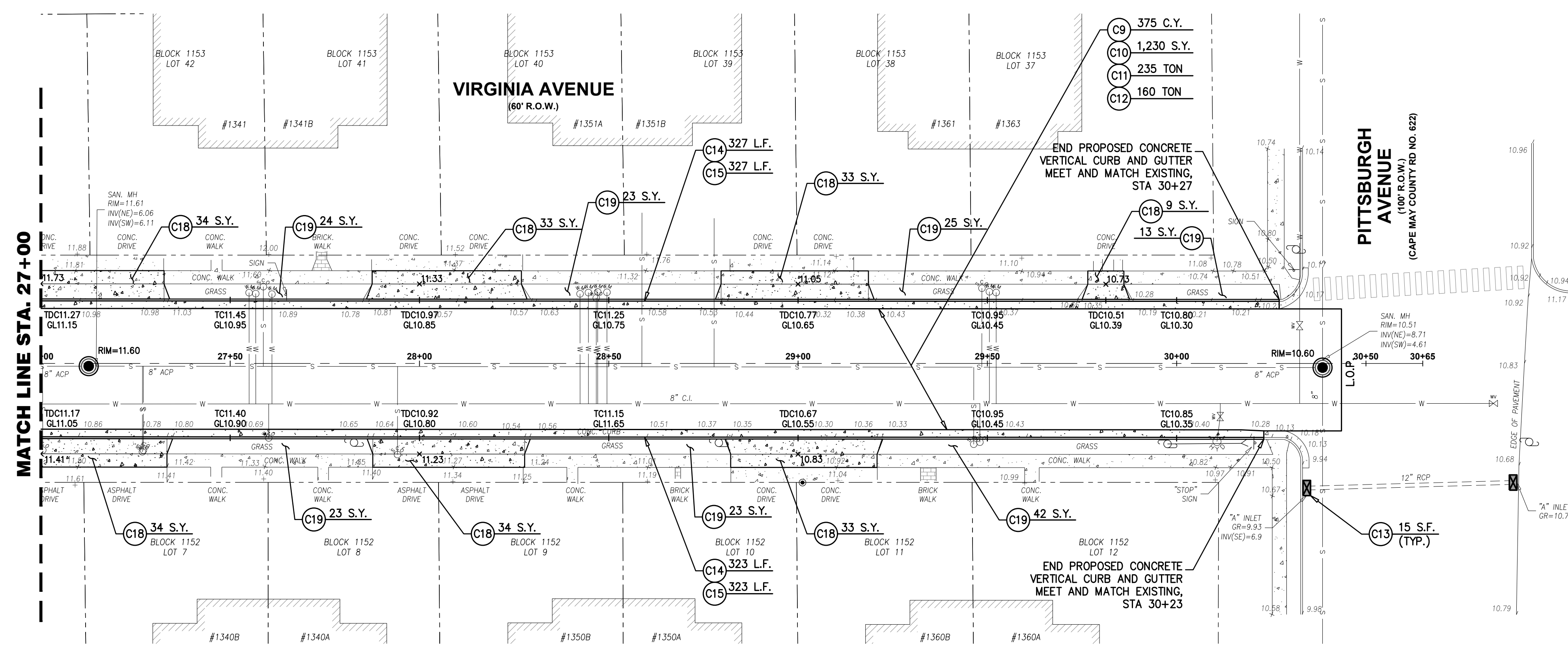
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RF	RF	MAD	03/23/2026

STATE OF NEW JERSEY
Professional Engineer
No. GE41999
MARC A. DEBLASIO
New Jersey License No. 41599
3/23/2026

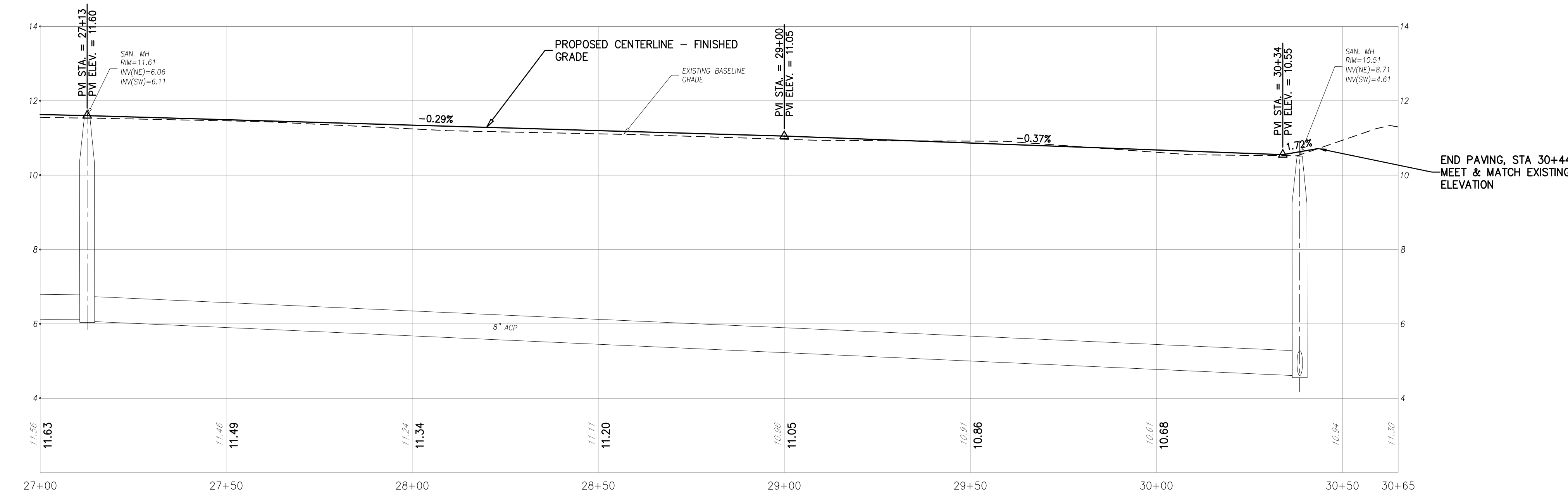
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Scale:	AS NOTED	Sheet No.:	17	Total:	23
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	375	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	1,230	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	235	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	160	
C13	INLET FILTERS, TYPE 1	S.F.	30	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	650	
C15	CONCRETE GUTTER, 8" THICK	L.F.	650	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	210	
C19	SODDING	S.Y.	173	



ROADWAY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'

SURVEY NOTES:
1. EXISTING TOPOGRAPHIC INFORMATION SHOWN WAS BASED ON A FIELD SURVEY PERFORMED BY DEBLASIO & ASSOCIATES, P.C. UNDER THE SUPERVISION OF HENRY V. ENGEL, N.J.P.L.S. NO. 35833, COMPLETED ON 1/5/2026.
2. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
3. HORIZONTAL CONTROL IS REFERENCED TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM (NAD 1983).

4. PROPERTY AND RIGHT-OF-WAY LINES SHOWN ARE APPROXIMATE LOCATIONS BASED ON THE CURRENT TAX MAPS OF THE CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY. SAID LINES ARE SHOWN FOR GRAPHICAL INFORMATION ONLY AND HAVE NOT BEEN FIELD VERIFIED.

ROADWAY NOTES:
1. LIMITS OF PAVING (L.O.P.) SHALL BE SAWCUT FULL DEPTH AND SEALED WITH HOT-POURED JOINT SEALER, MEET AND MATCH EXISTING PAVEMENT ELEVATIONS. THERE SHALL BE NO SEPARATE PAYMENT FOR THIS WORK BUT THE COST SHALL BE INCLUDED IN THE SURFACE PAVING.
2. LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CAPE MAY COUNTY ROAD OPENING PERMIT FOR WORK WITHIN PITTSBURGH AVENUE (CAPE MAY COUNTY ROAD 622) RIGHT-OF-WAY. ALL COSTS ASSOCIATED WITH PERMIT ACQUISITION SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE BID FORM.

**ROADWAY
PLAN & PROFILE
(VIRGINIA AVENUE)**

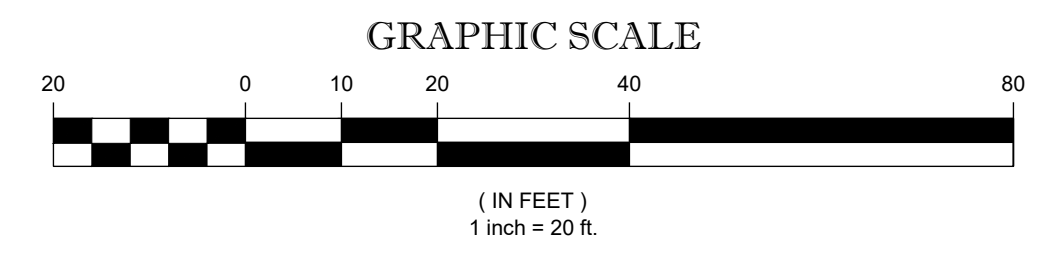
**DEBLASIO &
ASSOCIATES**
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

Design:	Drawn:	Check:	Date:
RFI	RFI	MAD	03/23/2026

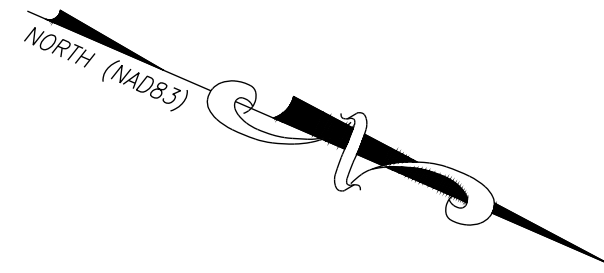
STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599



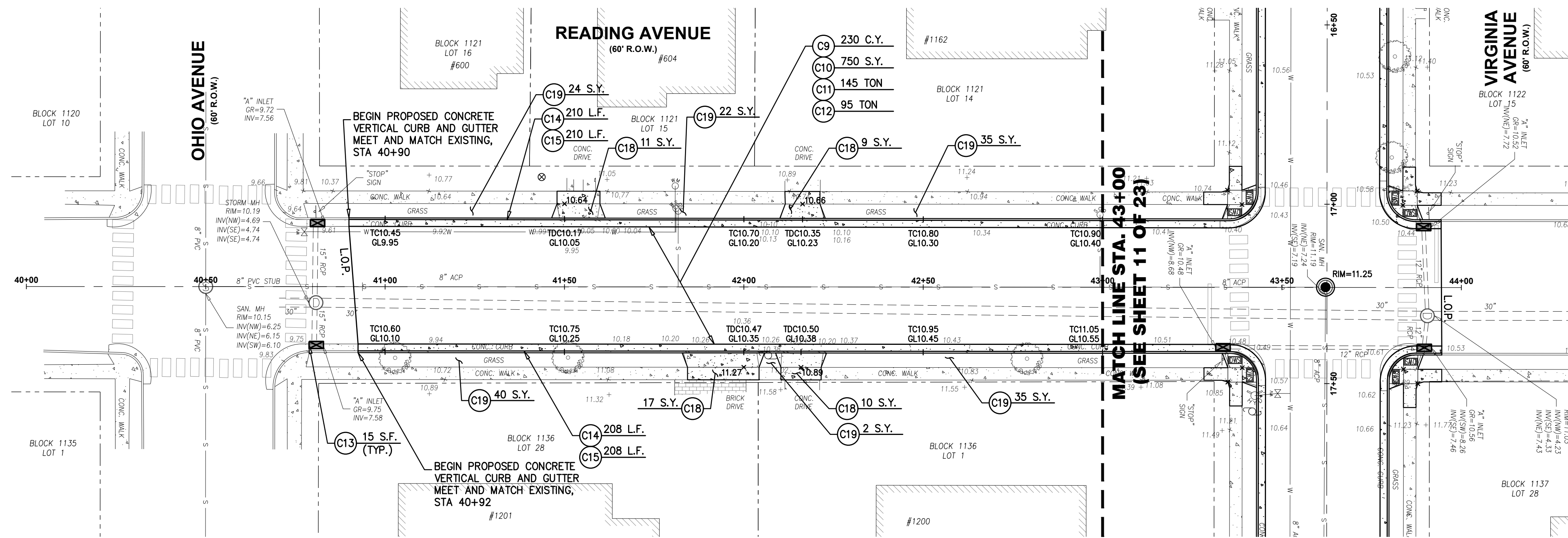
NO.	DATE	APPR.	REVISION

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Scale:	AS NOTED	Job No.:	COM-C-025	Sheet No.:	13	Total:	23
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ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	230	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	750	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	145	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	95	
C13	INLET FILTERS, TYPE 1	S.F.	30	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	418	
C15	CONCRETE GUTTER, 8" THICK	L.F.	418	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	47	
C19	SODDING	S.Y.	158	

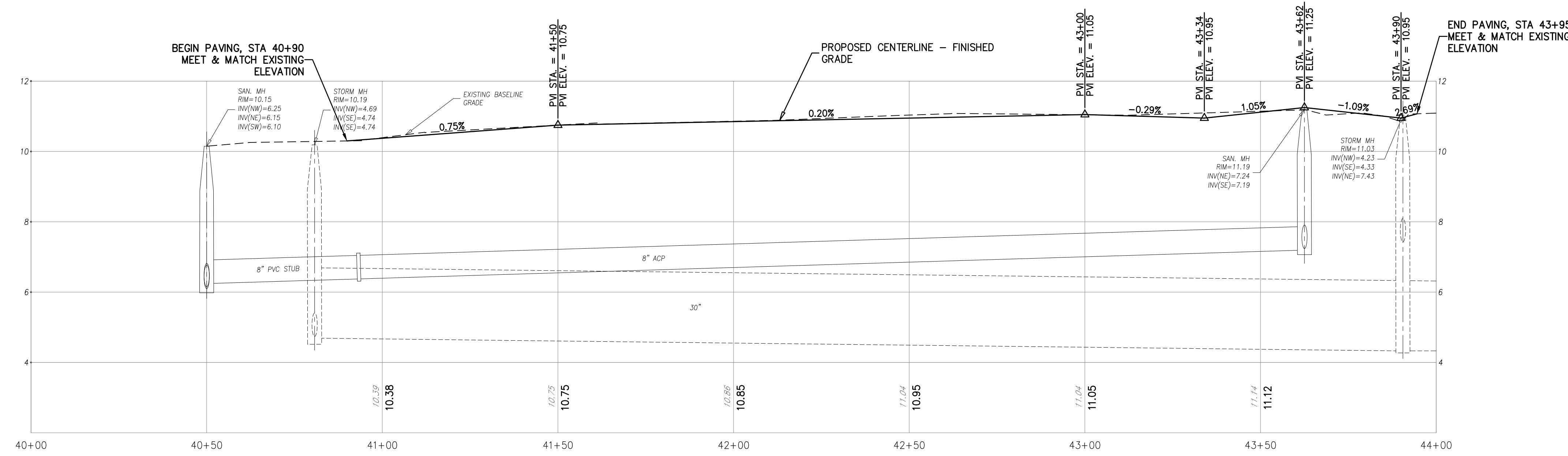


ROADWAY PLAN

SCALE : 1"=20'

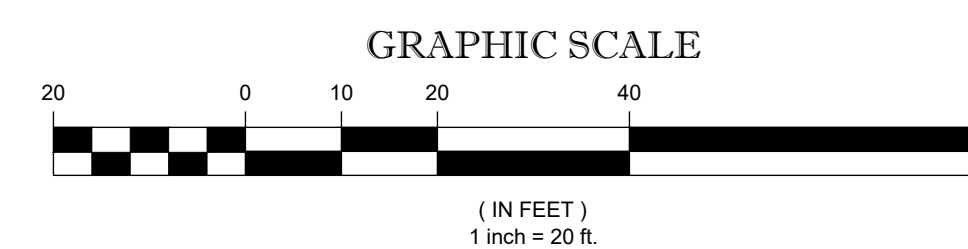
- SURVEY NOTES:**
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 - LIMITS OF SIDEWALK REPLACEMENT SHALL BE SAWCUT TO A NEAT AND CLEAN EDGE WHERE NO JOINT EXISTS. THE COSTS OF SAWCUTTING SHALL BE INCLUDED IN THE RELATED PAY ITEMS IN THE BID FORM.



PROFILE

HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'



ROADWAY PLAN & PROFILE (READING AVENUE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
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FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

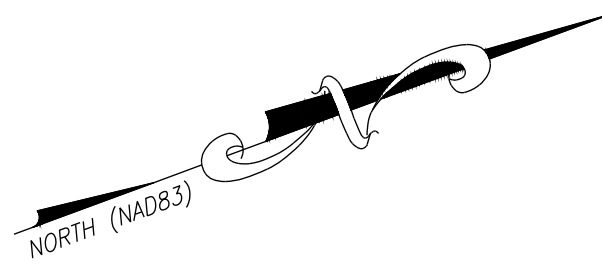
FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY

Design:	Drawn:	Check:	Date:
RFI	RFI	MAD	03/23/2026

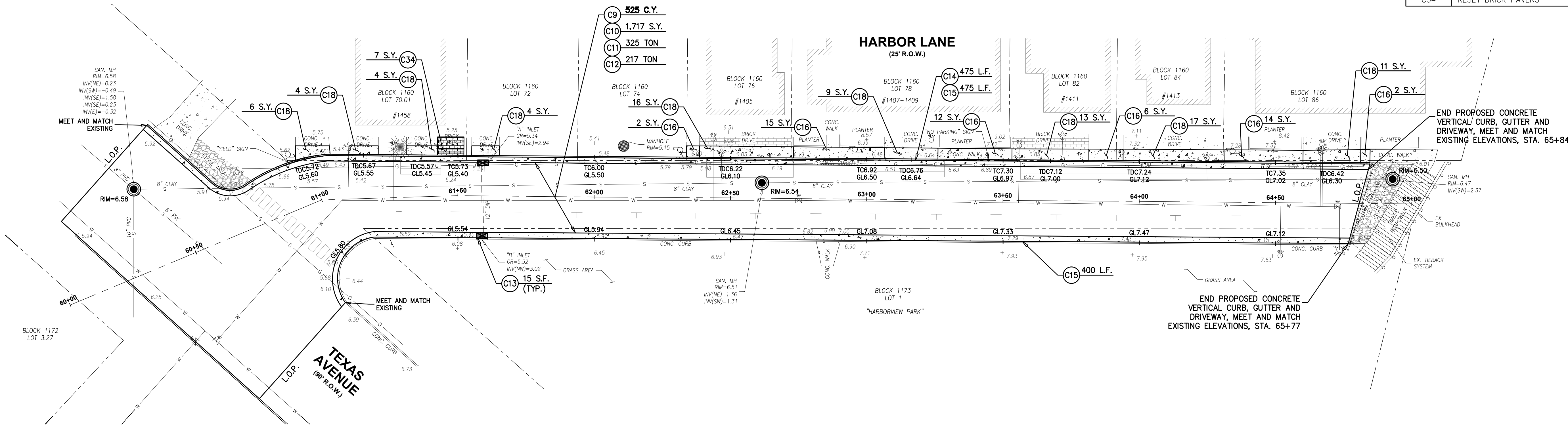
STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

NO.	DATE	APPR.	REVISION

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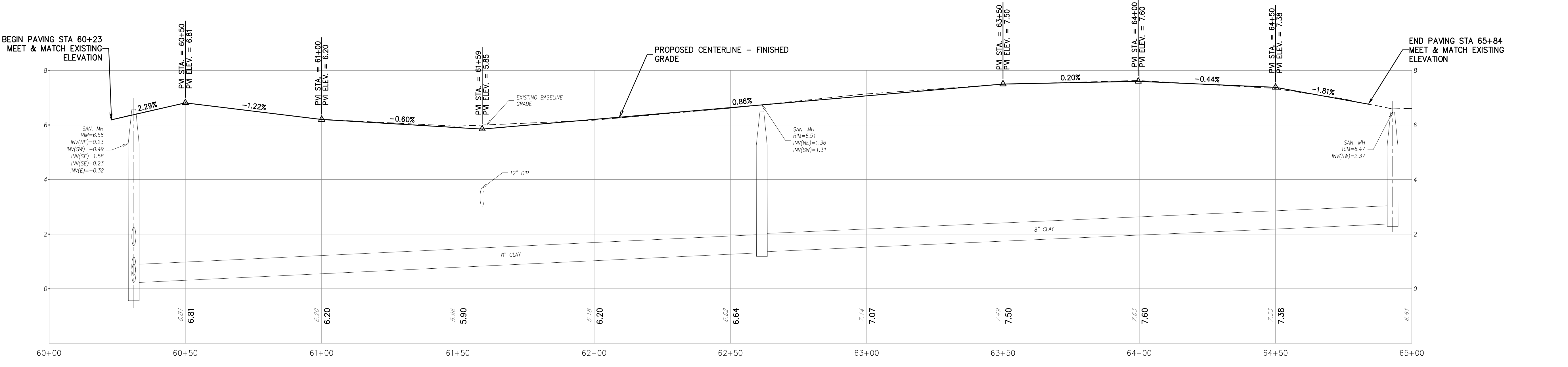
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	525	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	1,717	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	325	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	217	
C13	INLET FILTERS, TYPE 1	S.F.	30	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	475	
C15	CONCRETE GUTTER, 8" THICK	L.F.	875	
C16	CONCRETE SIDEWALK, 4" THICK	S.Y.	51	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	84	
C34	RESET BRICK PAVERS	S.Y.	7	



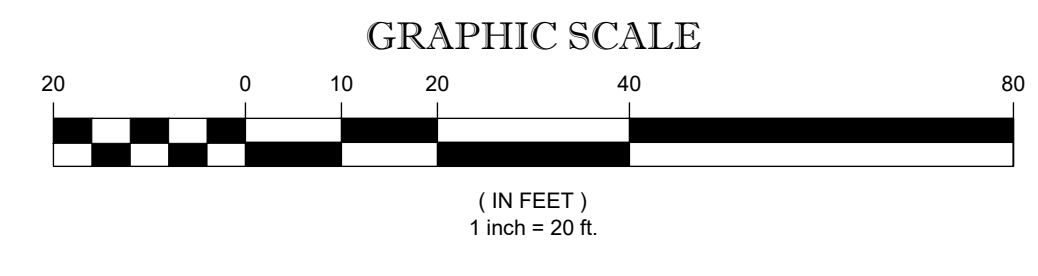
ROADWAY PLAN
SCALE : 1"=20'

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PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'



ROADWAY PLAN & PROFILE (HARBOR LANE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
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WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY CAPE MAY COUNTY, NEW JERSEY

Design:	Drawn:	Check:	Date:
RFR	RFR	MAD	03/23/2026

STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

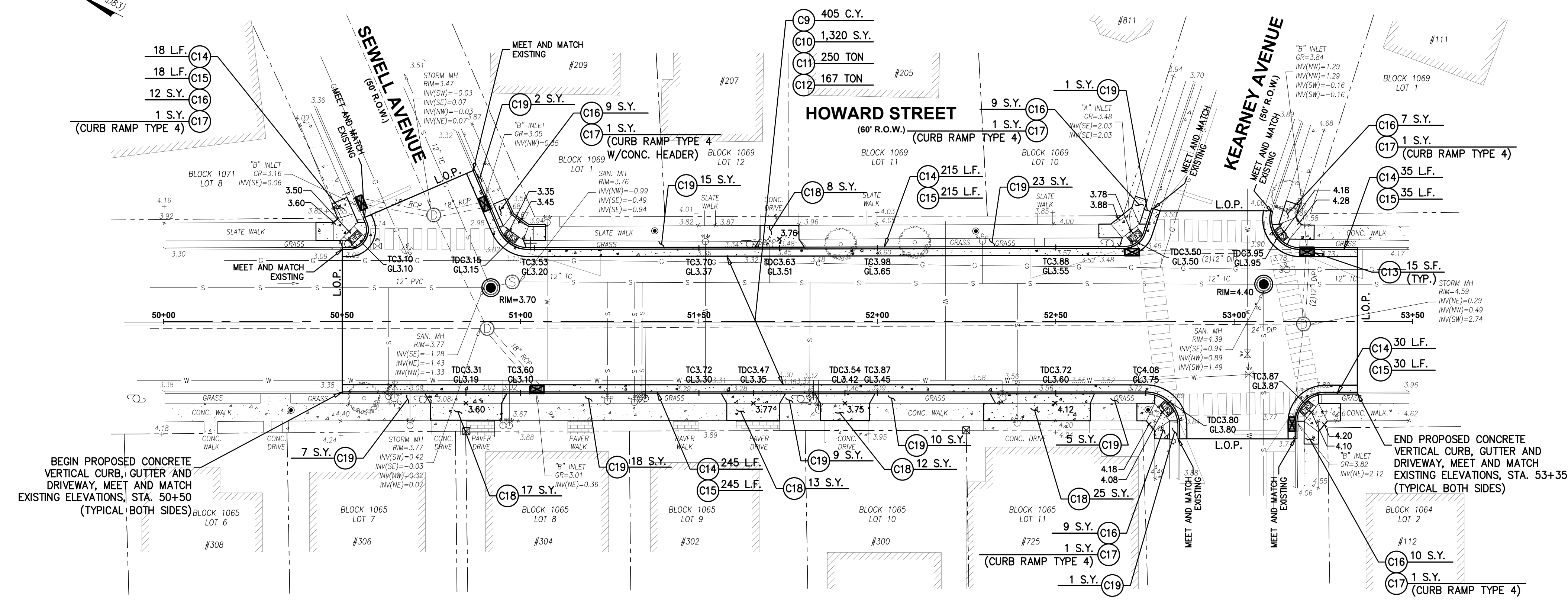
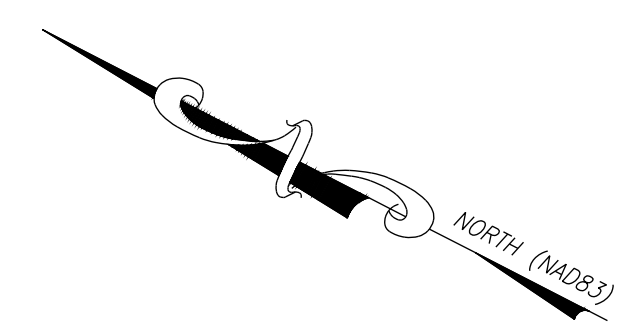
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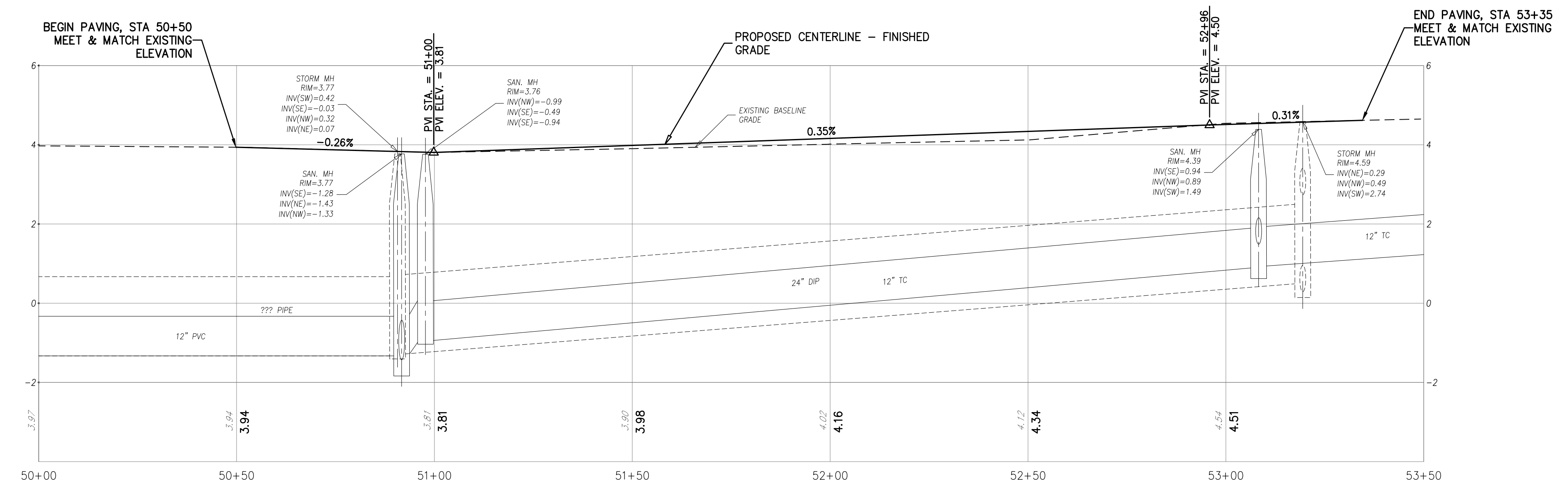
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C9	ROADWAY EXCAVATION, UNCLASSIFIED	C.Y.	405	
C10	DENSE GRADED AGGREGATE BASE COURSE, 6" THICK	S.Y.	1,320	
C11	HOT MIX ASPHALT BASE COURSE, MIX 19M64, 3" THICK	TON	250	
C12	HOT MIX ASPHALT SURFACE COURSE, MIX 9.5M64, 2" THICK	TON	167	
C13	INLET FILTERS, TYPE 1	S.F.	90	
C14	8" X 18" CONCRETE VERTICAL CURB	L.F.	543	
C15	CONCRETE GUTTER, 8" THICK	L.F.	543	
C16	CONCRETE SIDEWALK, 4" THICK	S.Y.	56	
C17	DETECTABLE WARNING SURFACES	S.Y.	6	
C18	CONCRETE DRIVEWAY, 6" THICK	S.Y.	75	
C19	SODDING	S.Y.	91	

- SURVEY NOTES:**
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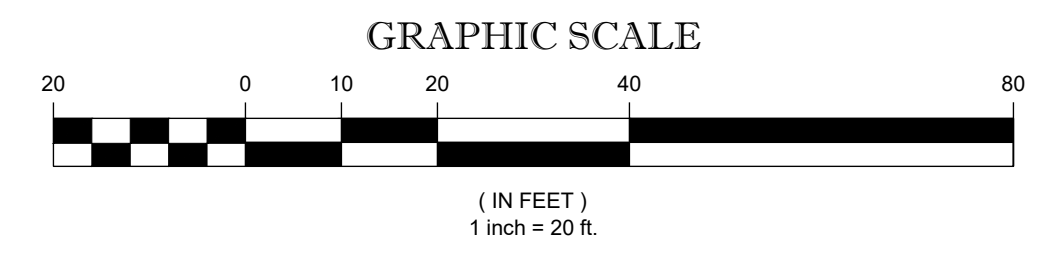
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ROADWAY PLAN
SCALE : 1"=20'



PROFILE
HORIZONTAL SCALE : 1"=20'
VERTICAL SCALE : 1"=2'



ROADWAY PLAN & PROFILE (HOWARD STREET)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
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FAX (609) 854-4323
WWW.DEBLASIOASSOC.COM
Certification of Authorization No. 246A28284900

FY2026 NJ WATER BANK NO. 340258-04 VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS CITY OF CAPE MAY, CAPE MAY COUNTY, NEW JERSEY

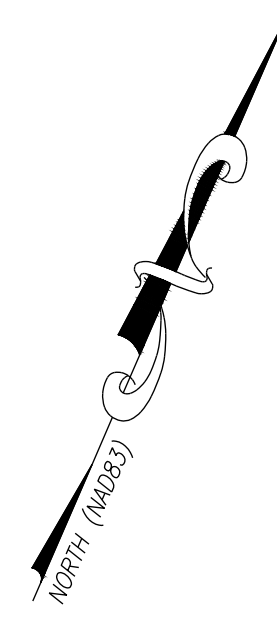
Design:	Drawn:	Check:	Date:
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STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599

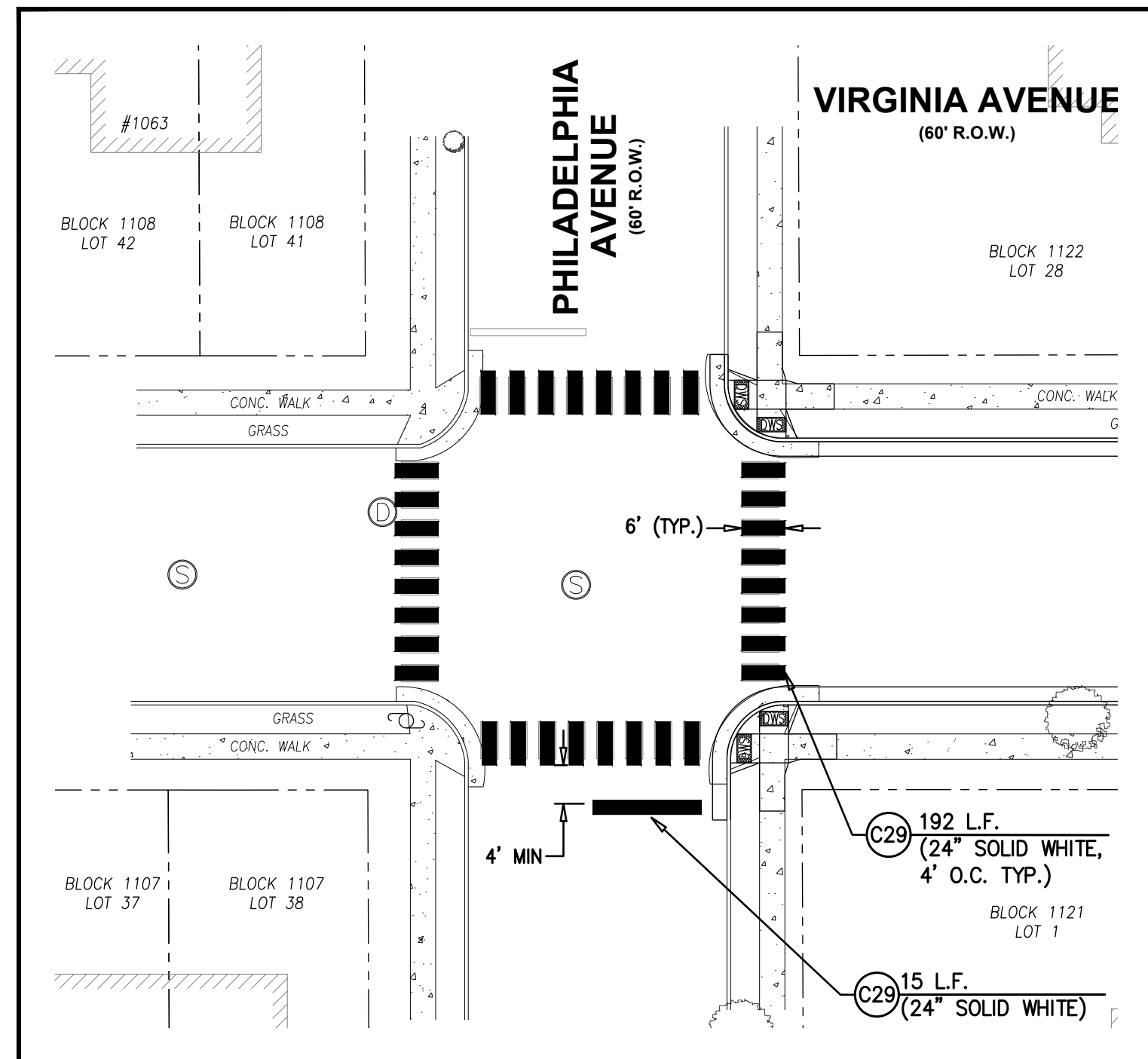
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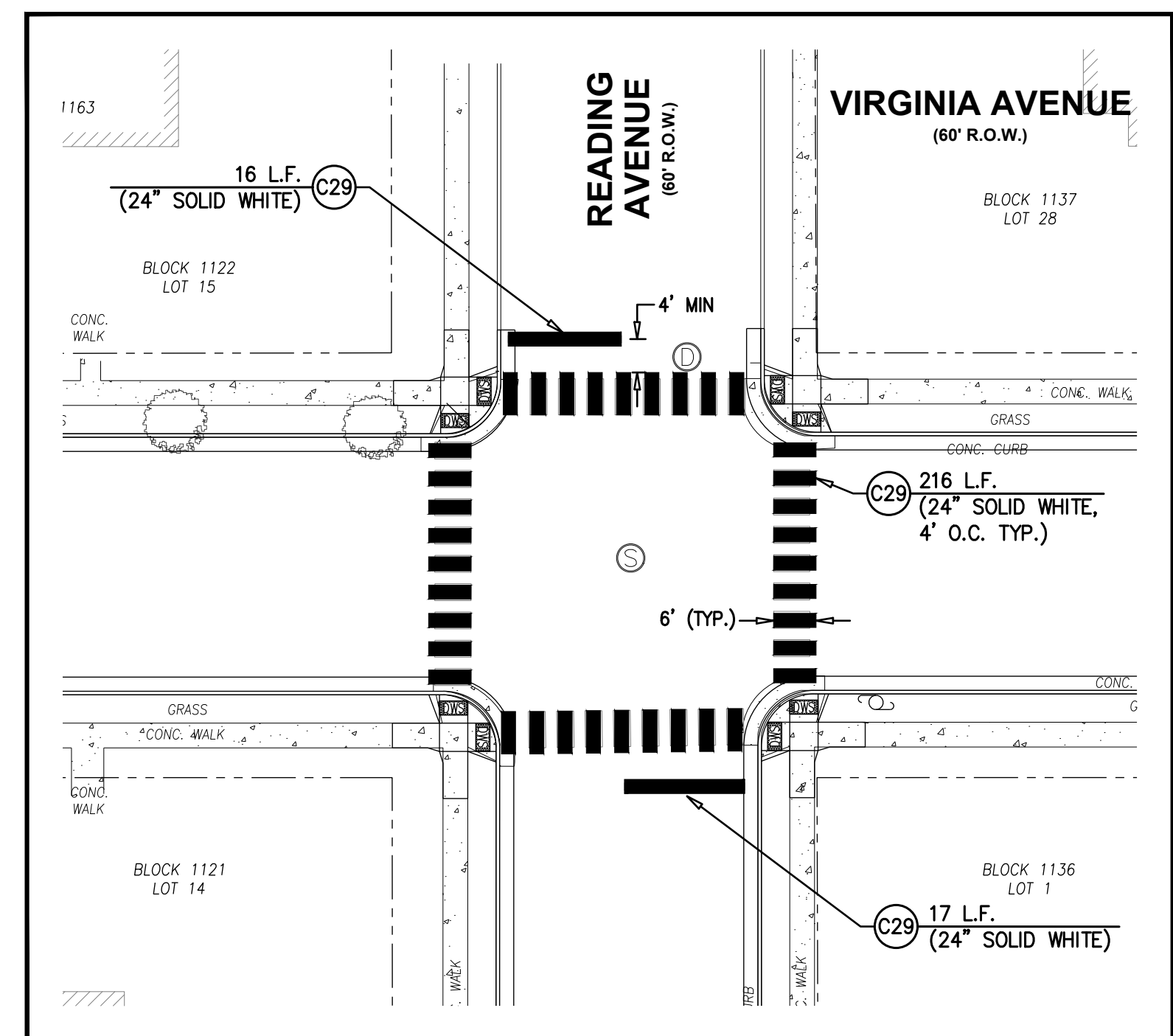
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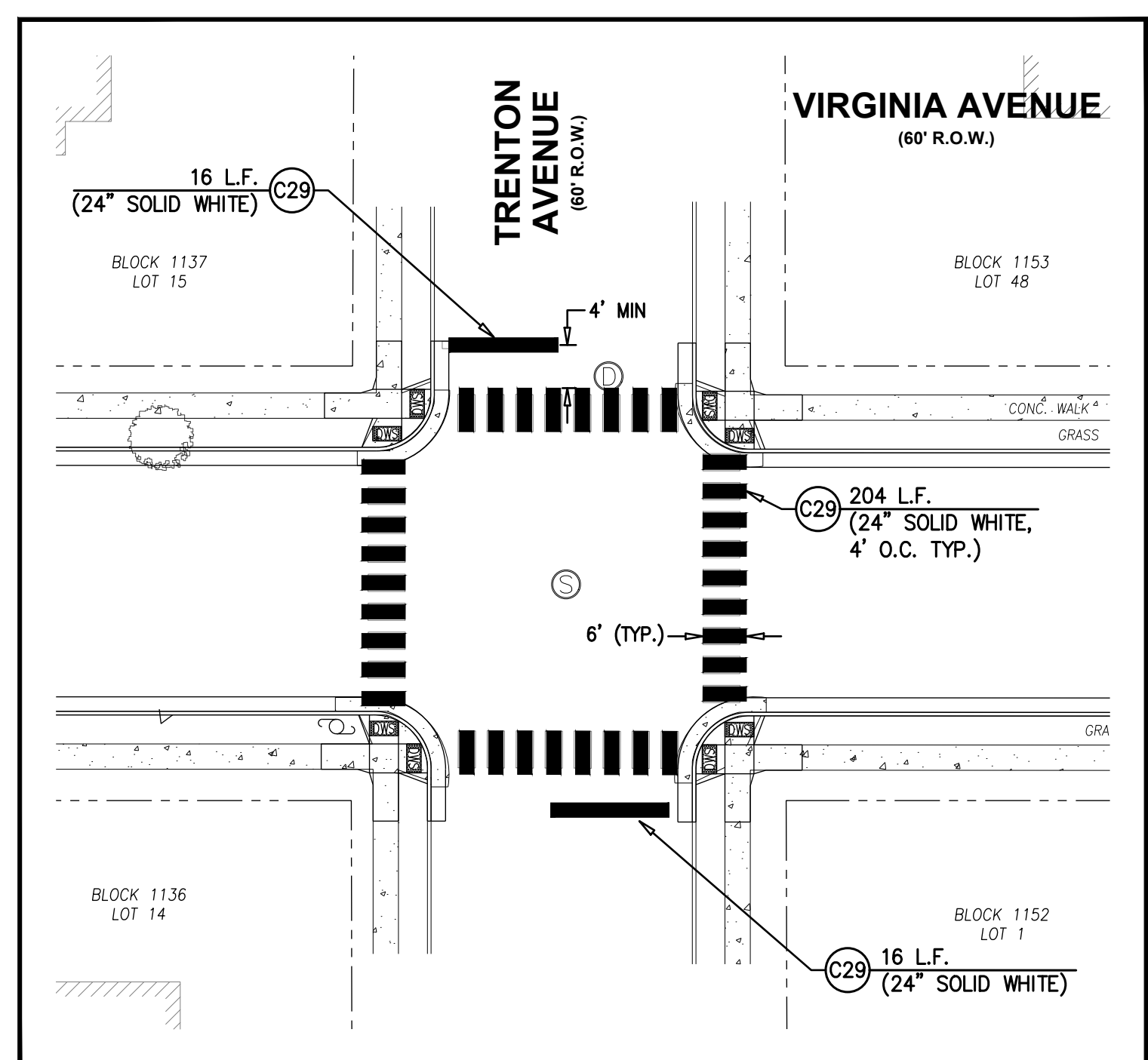
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C29	TRAFFIC MARKINGS LINES, 24"	L.F.	708	



TRAFFIC STRIPING PLAN
SCALE : 1"=20'

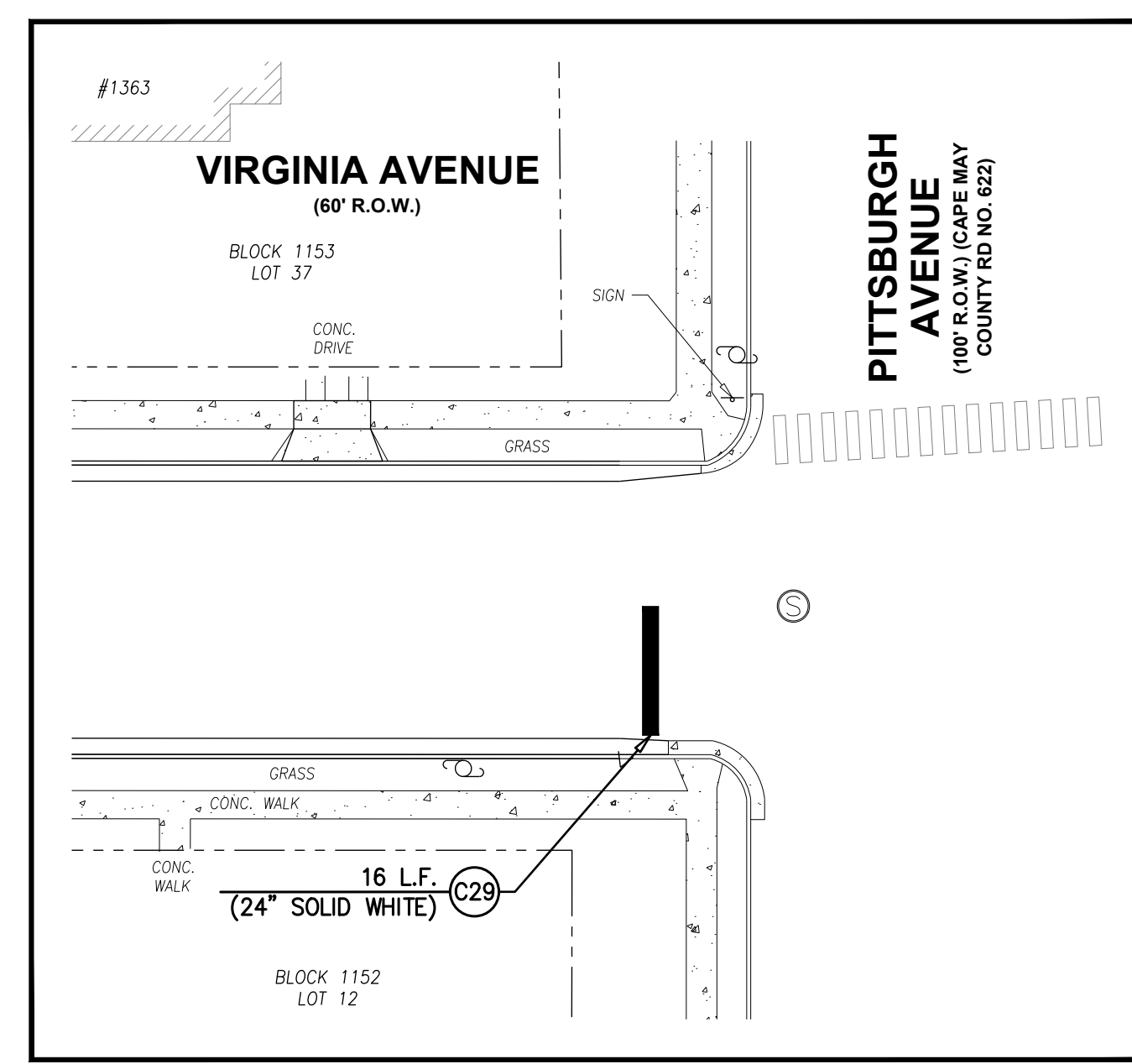


TRAFFIC STRIPING PLAN
SCALE : 1"=20'

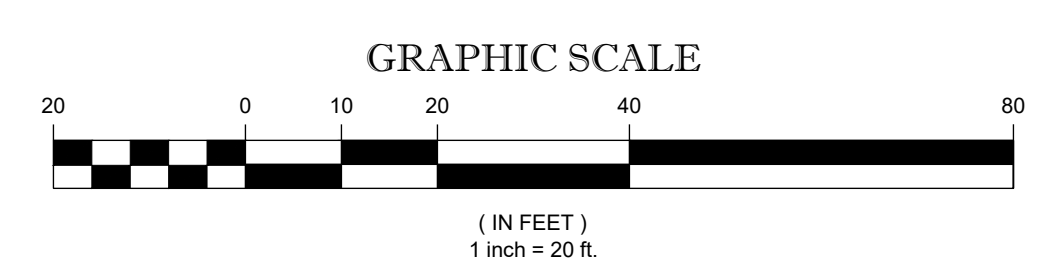


TRAFFIC STRIPING PLAN
SCALE : 1"=20'

- STRIPING NOTES:**
- ALL PERMANENT LONGITUDINAL WHITE AND YELLOW LANE LINES SHALL BE LONG-LIFE EPOXY RESIN TRAFFIC STRIPES.
 - ALL PERMANENT DIAGONAL GORE MARKINGS, CROSS WALKS, STOP BARS, PARKING STALL DELINEATORS, WORDS, AND ARROWS SHALL BE LONG-LIFE THERMOPLASTIC TRAFFIC MARKINGS.
 - ALL TEMPORARY LONGITUDINAL CENTER LINES SHALL BE REMOVABLE PAVEMENT MARKING TAPE.
 - TRAFFIC STRIPING AND TRAFFIC MARKINGS OF DIFFERENT MATERIALS SHALL NOT BE OVERLAPPED.
 - TRANSVERSE DIMENSIONS INVOLVING PAINTING LINES ARE FROM THE CENTER OF PAINTED WHITE LINE TO THE CENTER OF 6 INCH SPACE BETWEEN DOUBLE 4 INCH YELLOW LINES UNLESS OTHERWISE SHOWN.



TRAFFIC STRIPING PLAN
SCALE : 1"=20'



NO.	DATE	APPR.	REVISION

TRAFFIC STRIPING PLAN (VIRGINIA AVENUE)

DEBLASIO & ASSOCIATES
ENGINEERS, SURVEYORS AND PLANNERS

4701 NEW JERSEY AVENUE
WILDWOOD, NJ 08260
PHONE (609) 854-3311
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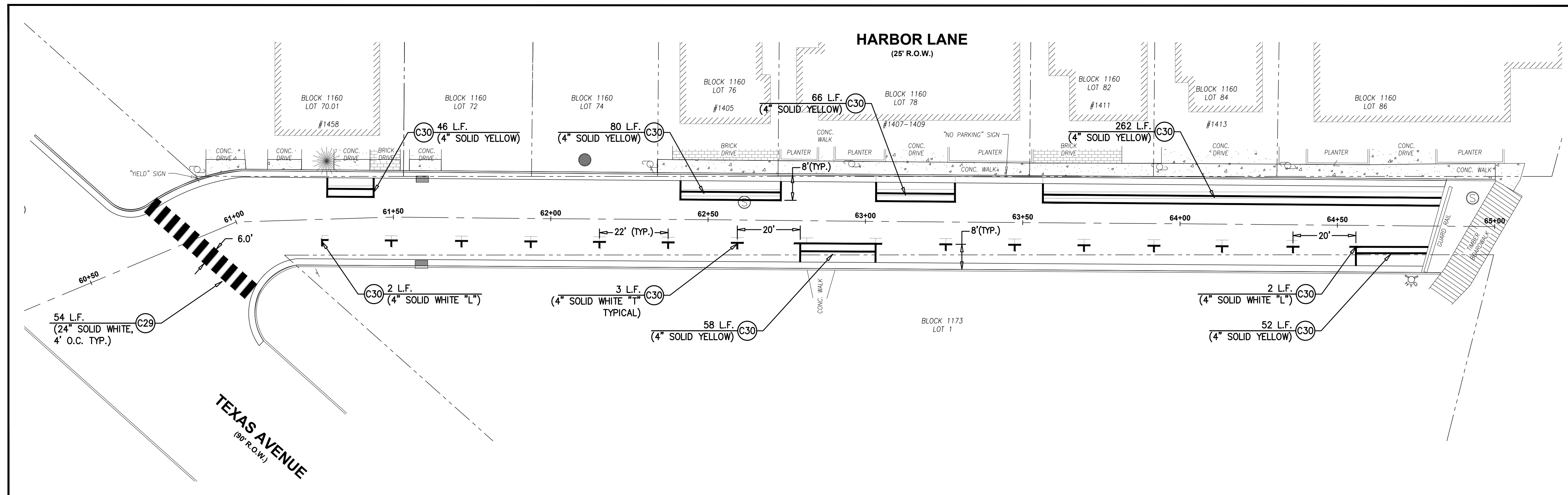
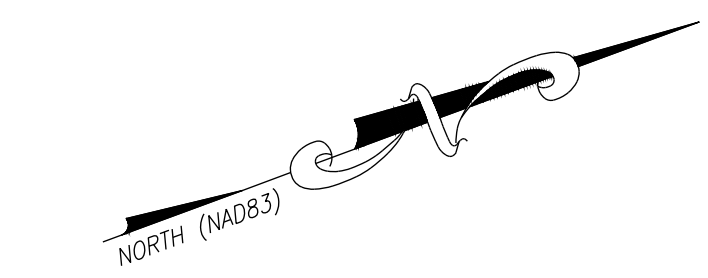
FY2026 NJ WATER BANK NO. 340258-04
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

Design:	Drawn:	Check:	Date:
RFK	RFK	MAD	03/23/2026

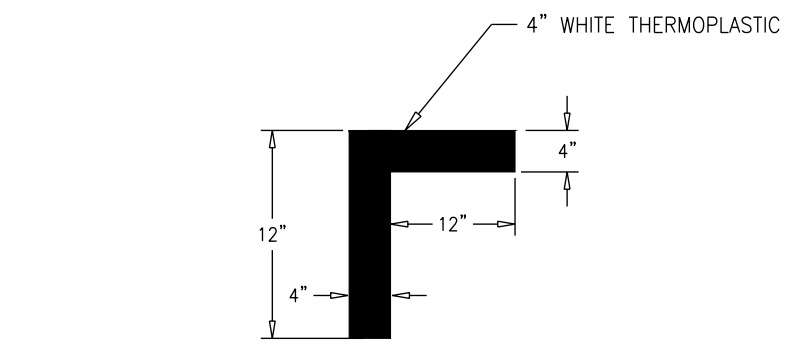
STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
MARC A. DEBLASIO, P.E.
New Jersey License No. 41599
Scale: AS NOTED
Sheet No. 17
Total: 23

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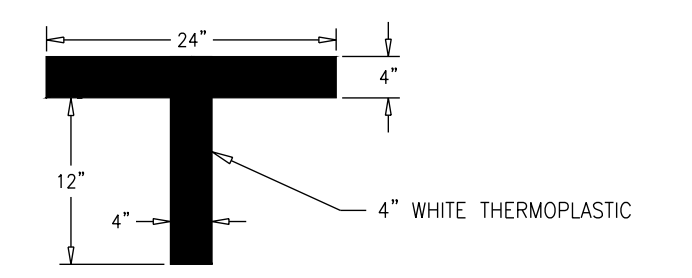
ITEM NO.	TO BE CONSTRUCTED	UNIT	PLAN QUANTITY	AS-BUILT QUANTITY
NJ WATER BANK - CLEAN WATER PARTICIPATING ITEMS				
C29	TRAFFIC MARKINGS LINES, 24"	L.F.	384	
C30	TRAFFIC MARKINGS LINES, 4"	L.F.	697	
C31	TRAFFIC STRIPES, 4"	L.F.	336	



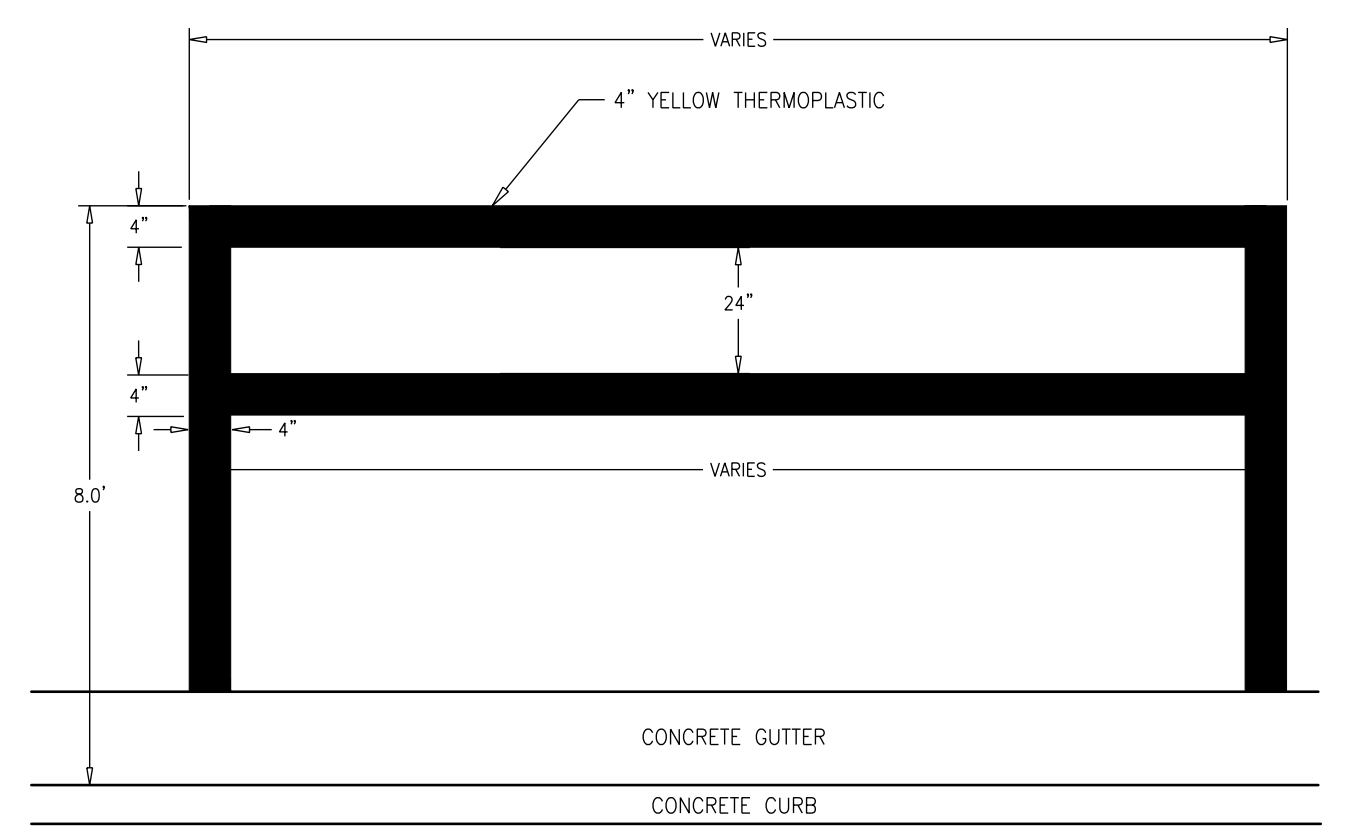
TRAFFIC STRIPING PLAN
SCALE : 1"=20'



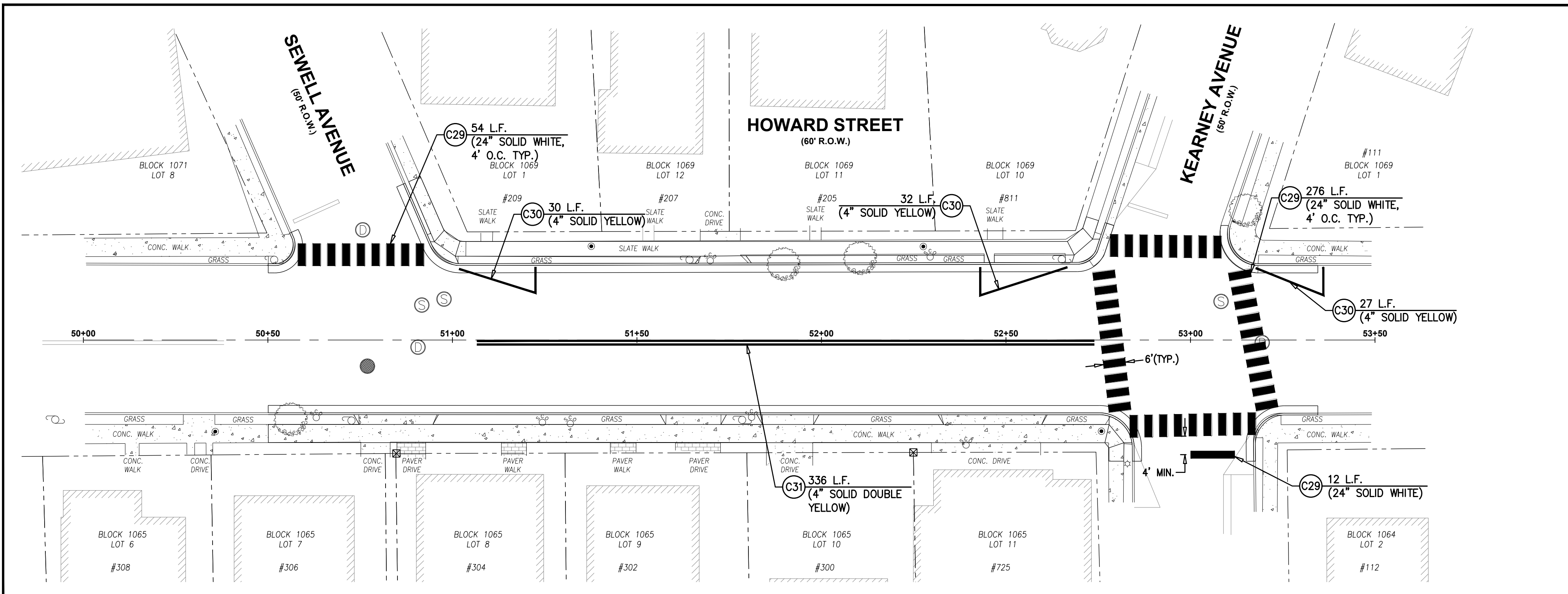
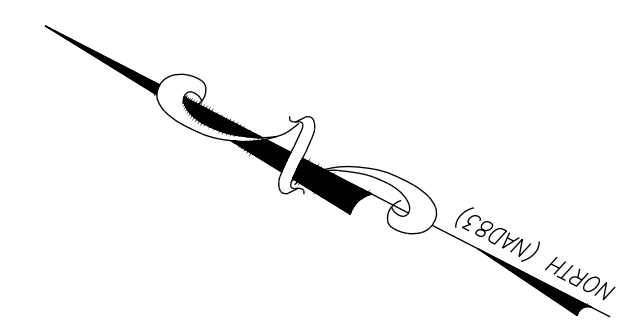
PARKING STALL PAVEMENT MARKING DETAIL
N.T.S.



PARKING STALL PAVEMENT MARKING DETAIL
N.T.S.



NO-PARKING PAVEMENT MARKING DETAIL
N.T.S.



TRAFFIC STRIPING PLAN
SCALE : 1"=20'

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**TRAFFIC STRIPING PLAN
(HARBOR LANE & HOWARD STREET)**

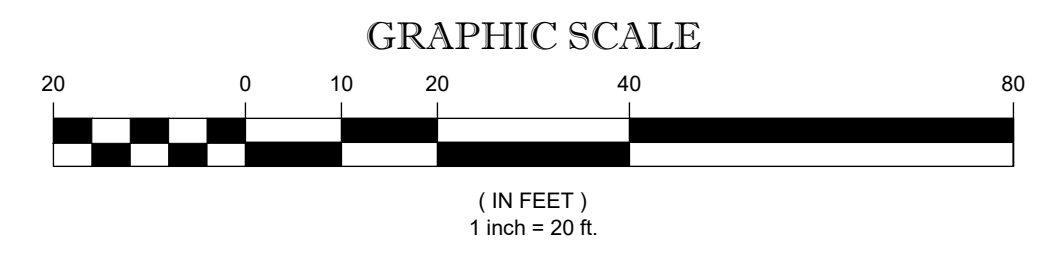
DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

Design:	Drawn:	Check:	Date:
RFI	RFI	MAD	03/23/2026

STATE OF NEW JERSEY
MARC A. DEBLASIO
No. GE41999
3/23/2026
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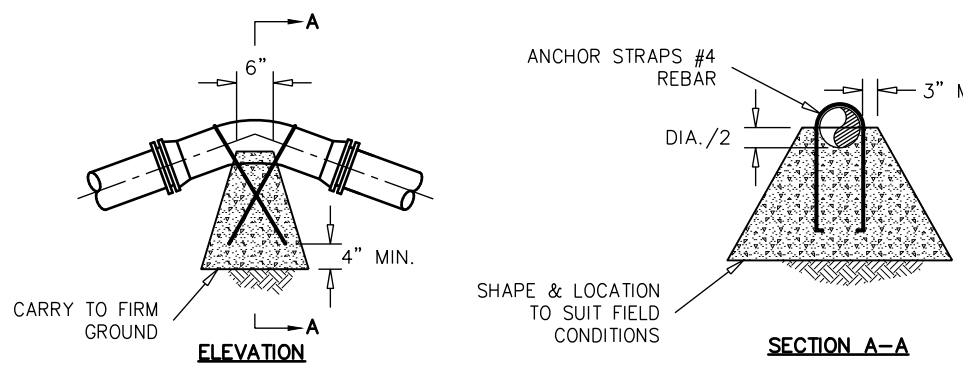


NO.	DATE	APPR.	REVISION

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Scale:	AS NOTED	Sheet No.:	16	Total:	23
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DIAMETER OF PIPE (d)	REQUIRED VOLUME OF CONCRETE FOR THRUST BLOCKS IN CUBIC FEET 150 PSI TEST PRESSURE				
	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW	5 1/8° ELBOW
6"	39	28	15	8	3
8"	63	44	24	12	6
10"	96	68	37	19	9
12"	137	97	53	27	12
16"	239	169	92	47	21
18"	298	211	114	58	27
20"	364	258	139	71	33
24"	507	369	199	102	47
30"	804	568	308	157	72
36"	1152	815	441	225	103



VERTICAL DOWNWARD BENDS
N.T.S.

NOTES:
 1. VOLUME OF CONCRETE BASED ON 1 CU. FT. WEIGHING 150 LBS.
 2. ALL VERTICAL CONCRETE THRUST BLOCKS SHALL BE CLASS B CONCRETE.
 3. NO JOINT SHALL BE COVERED WITH CONCRETE.
 4. RETAINER GLANDS SHALL BE USED ON ALL MECHANICAL JOINT CONNECTIONS.
 5. * VOLUME OF CONCRETE CALCULATED:

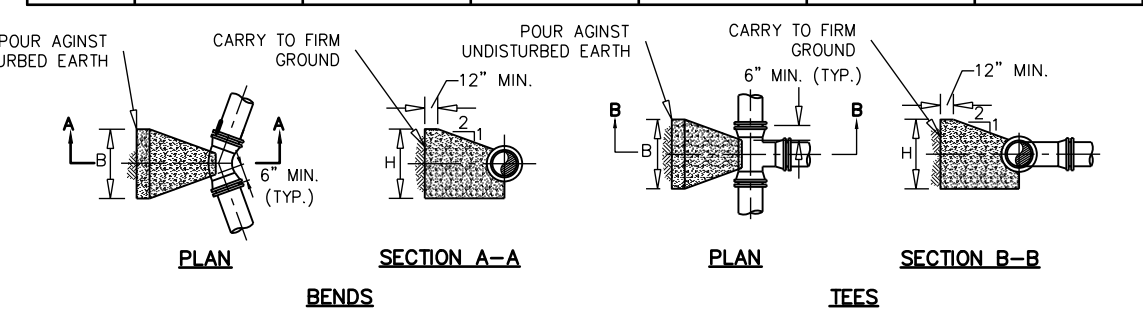
$$\text{Volume of Concrete in Cu.Ft.} = \frac{\text{PA Sin } 45^\circ}{150}$$

$$= \frac{(150) (1152.09) (0.7071)}{150}$$

$$= 815 \text{ Cu.Ft.}$$

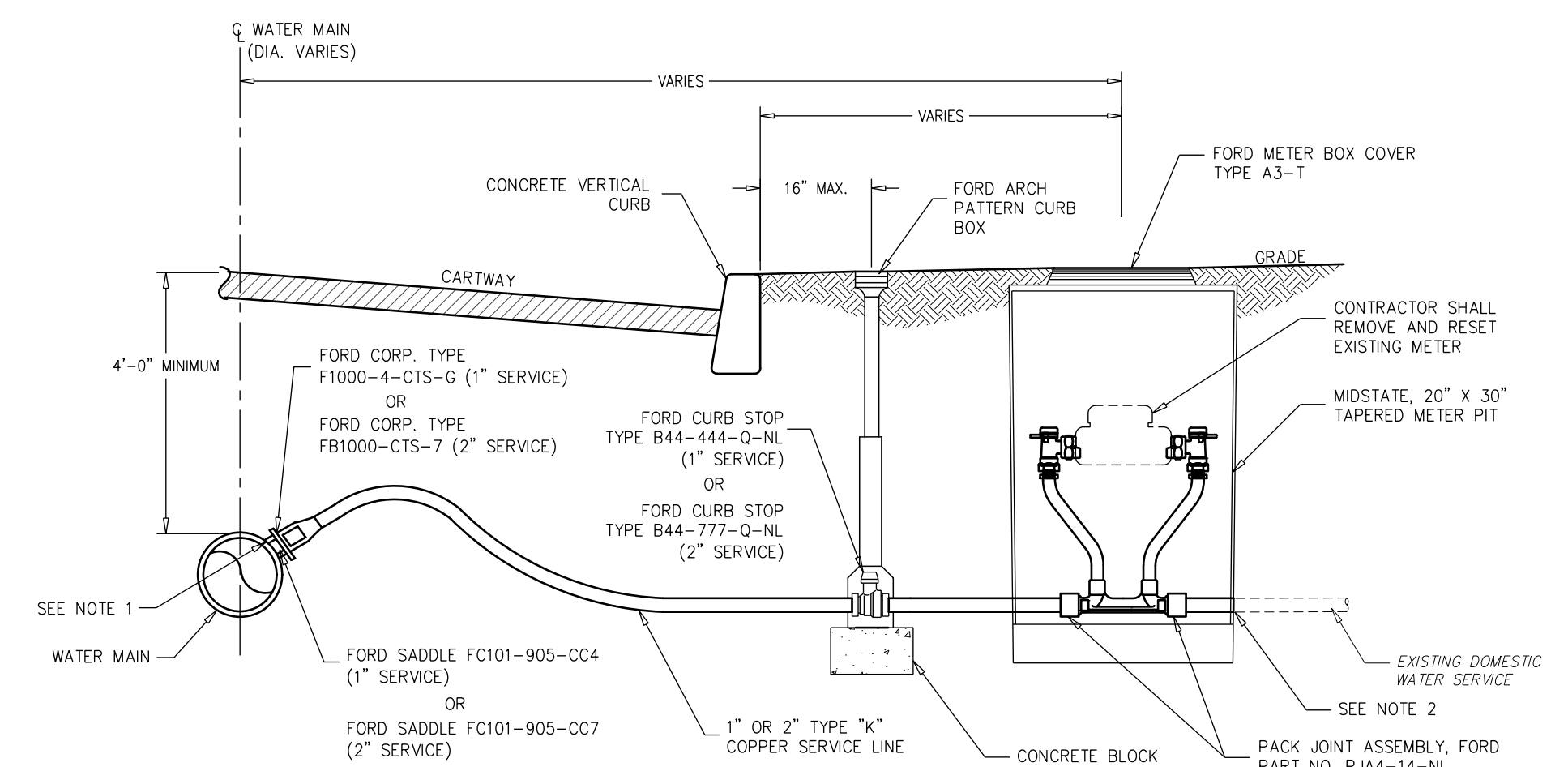
**THRUST BLOCKS
VERTICAL DOWNWARD BENDS**
N.T.S.

DIAMETER OF PIPE (d)	CONTACT BEARING AREA OF THRUST BLOCKS WITH EARTH IN SQUARE FEET ("A") 150 PSI TEST PRESSURE				
	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW	5 1/8° ELBOW
6"	2.8	1.5	0.8	0.4	0.2
8"	4.4	2.4	1.2	0.6	0.3
10"	6.8	3.7	1.9	0.9	0.4
12"	9.7	5.3	2.7	1.3	0.6
16"	16.9	9.2	4.7	2.3	1.1
18"	21.1	11.4	5.8	2.9	1.3
20"	25.8	13.9	7.1	3.6	1.6
24"	36.9	19.9	10.2	5.1	2.3
30"	56.8	30.8	15.7	7.9	3.6
36"	81.5	44.1	22.5	11.3	5.1



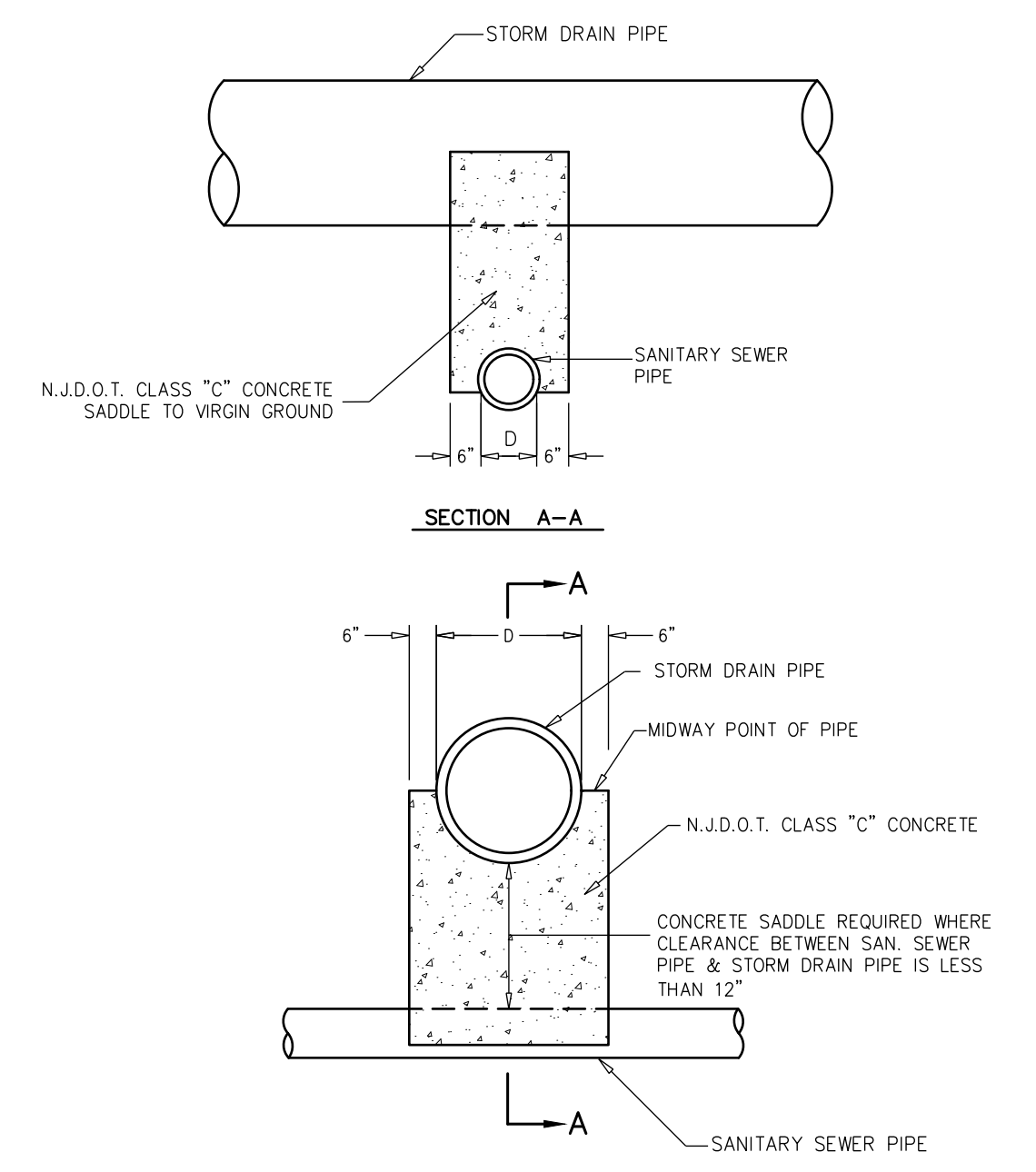
NOTES:
 1. BEARING AREAS ARE BASED ON UNDISTURBED SOIL WITH A BEARING CAPACITY OF 3000 LBS. PER SQ. FT. FOR A LESSER SOIL BEARING CAPACITY, BEARING AREAS SHALL BE INCREASED ACCORDINGLY.
 2. ALL CONCRETE THRUST BLOCKS SHALL BE CLASS B CONCRETE.
 3. THRUST BLOCKS SHALL BE POURED AGAINST UNDISTURBED EARTH.
 4. NO JOINT SHALL BE COVERED WITH CONCRETE.
 5. RETAINER GLANDS SHALL BE USED ON ALL MECHANICAL JOINT CONNECTIONS.
 6. BEARING AREA CALCULATED:
 $A = \text{Area of the pipe } (A = \pi r^2)$
 $\text{Bearing Area in Sq.Ft.} = \frac{2 \text{ PA Sin } (\text{Angle of Bend}/2)}{\text{Soil Bearing Capacity}}$
 $= \frac{(2) (150) (1152.09) (0.3827)}{3,000 \text{ Lbs/Sq. Ft.}}$
 $= 44.1 \text{ Sq. Ft.}$

**THRUST BLOCKS
HORIZONTAL BENDS AND VERTICAL UPWARD BENDS**
N.T.S.

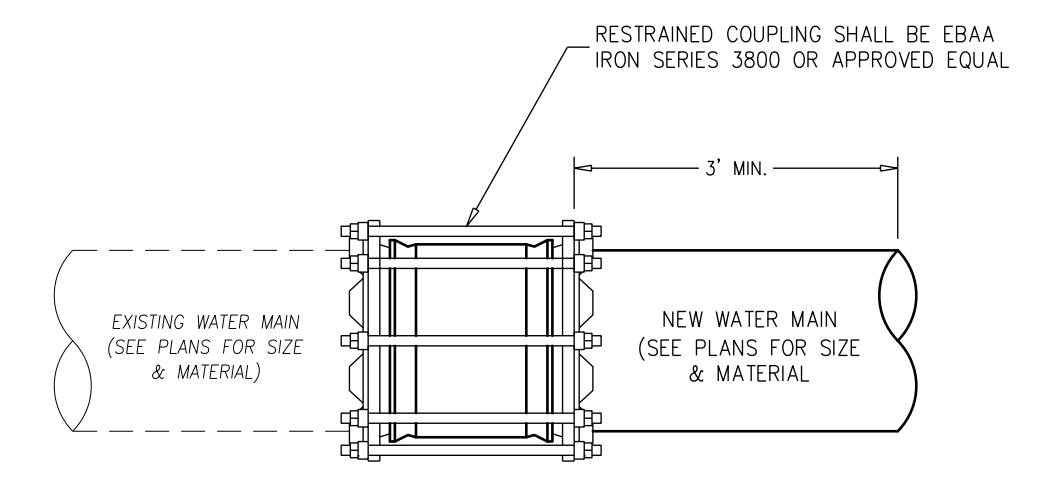


NOTES:
 1. FOR THE REPLACEMENT OF EXISTING WATER SERVICES, THE CONTRACTOR MAY UTILIZE THE EXISTING CORPORATION STOP SUBJECT TO THE APPROVAL OF THE ENGINEER. IF IT IS DETERMINED THAT THE EXISTING CORPORATION STOP CAN BE UTILIZED, THEN THE CONTRACTOR SHALL PROVIDE THE NECESSARY FITTINGS, ADAPTERS AND ALL ELSE FOR A COMPLETE RECONNECTION. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT COST FOR WATER SERVICES.
 2. CONTRACTOR TO CONNECT TO THE EXISTING WATER SERVICE. ALL MISCELLANEOUS FITTINGS, COUPLINGS, ADAPTERS AND TUBING REQUIRED TO MAKE A COMPLETE CONNECTION SHALL BE INCLUDED IN THE COST FOR WATER SERVICE.
 3. FOR ALL FUTURE WATER SERVICE CONNECTIONS THE CONTRACTOR SHALL INSTALL PER THIS DETAIL, EXCEPT THE SERVICE SHALL BE PLUGGED AND NO NEW METER SHALL BE INSTALLED.

TYPICAL WATER SERVICE CONNECTION DETAIL
N.T.S.

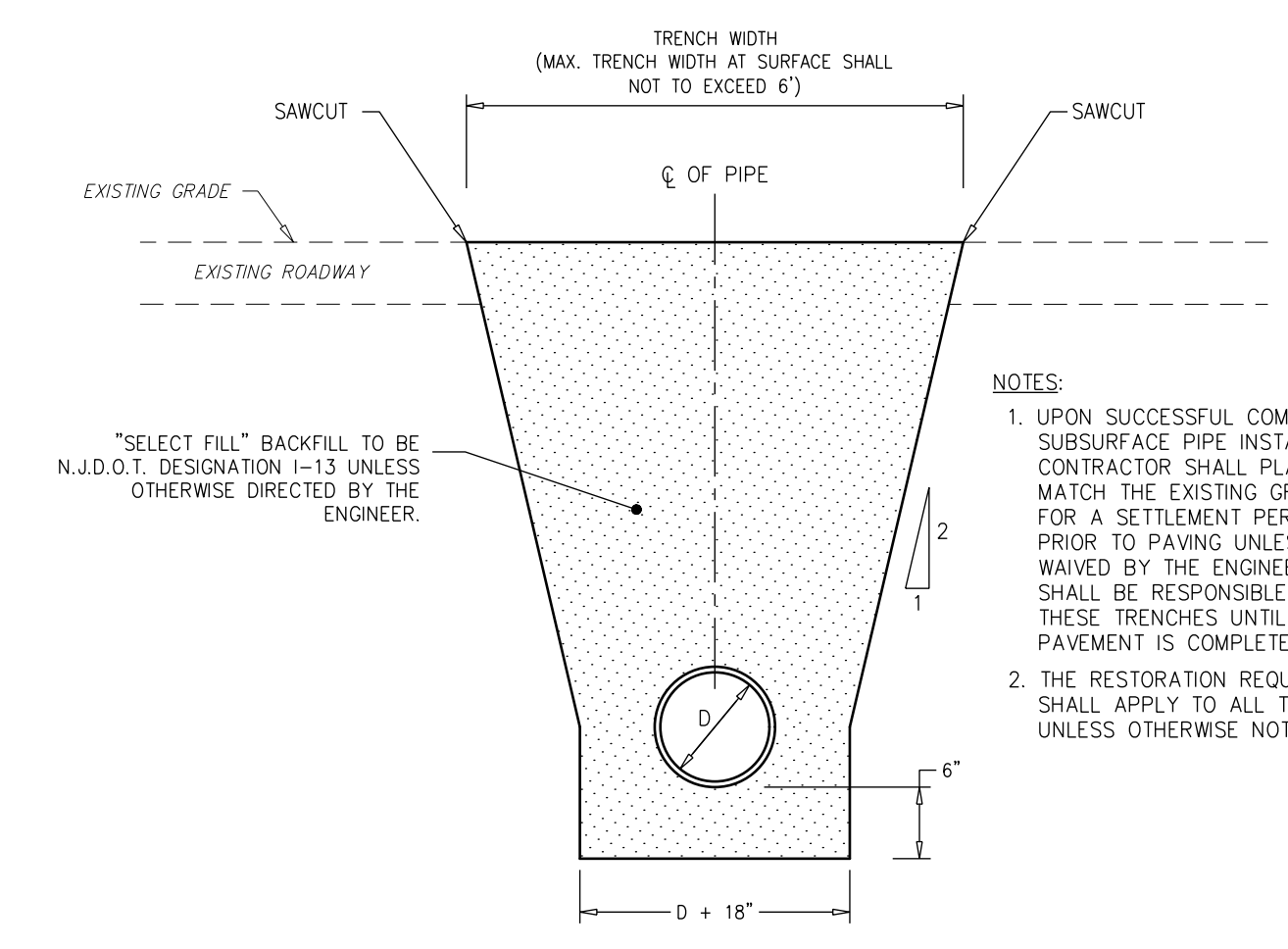


**CONCRETE SADDLE DETAIL
(IF & WHERE DIRECTED)**
N.T.S.



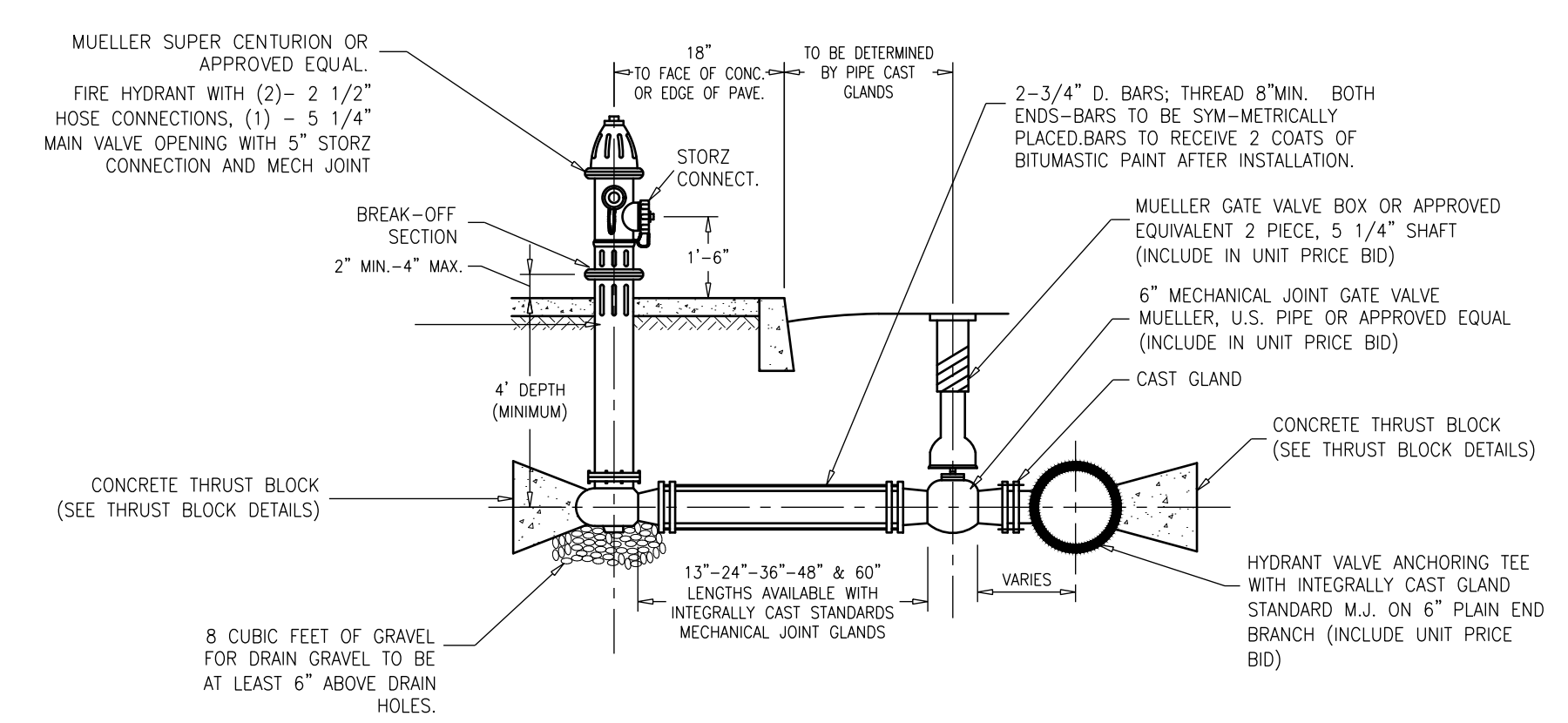
1. THERE WILL BE NO SEPARATE PAYMENT FOR ANY ELEVATION ADJUSTMENTS, BOTH HORIZONTALLY OR VERTICALLY TO MAKE A COMPLETE CONNECTION BETWEEN THE PROPOSED WATER MAIN & EXISTING WATER MAIN. ANY FITTINGS ASSOCIATED WITH SUCH ELEVATIONAL ADJUSTMENTS SHALL BE DUCTILE IRON MECHANICAL JOINT FITTINGS WITH APPLICABLE JOINT RESTRAINTS IN ALL CASES.
 2. PAYMENT, INCLUDING, BUT NOT LIMITED TO THE AFOREMENTIONED ITEMS, AND ALL ELSE NECESSARY TO MAKE A COMPLETE CONNECTION FROM THE EXISTING WATER MAIN TO THE PROPOSED WATER MAIN, SHALL BE INCLUDED IN THE PAY ITEM "CONNECT TO EXISTING WATER MAIN".

CONNECTION TO EXISTING WATER MAIN DETAIL
N.T.S.

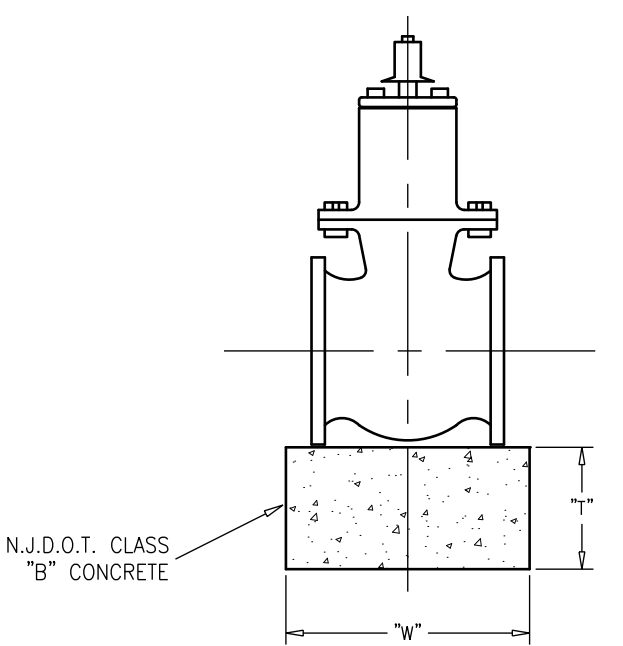


NOTES:
 1. UPON SUCCESSFUL COMPLETION OF THE SURFACE PIPE INSTALLATION, THE CONTRACTOR SHALL PLACE SELECT FILL TO MATCH THE EXISTING GRADE AND ALLOW FOR A SETTLEMENT PERIOD OF 45 DAYS PRIOR TO PAVING UNLESS OTHERWISE WAIVED BY THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE TRENCHES UNTIL THE FINAL PAVEMENT IS COMPLETE.
 2. THE RESTORATION REQUIREMENTS SHALL APPLY TO ALL TRENCH AREAS UNLESS OTHERWISE NOTED.

**TYPICAL TRENCH RESTORATION DETAIL FOR
WATER MAIN AND SERVICES**
N.T.S.



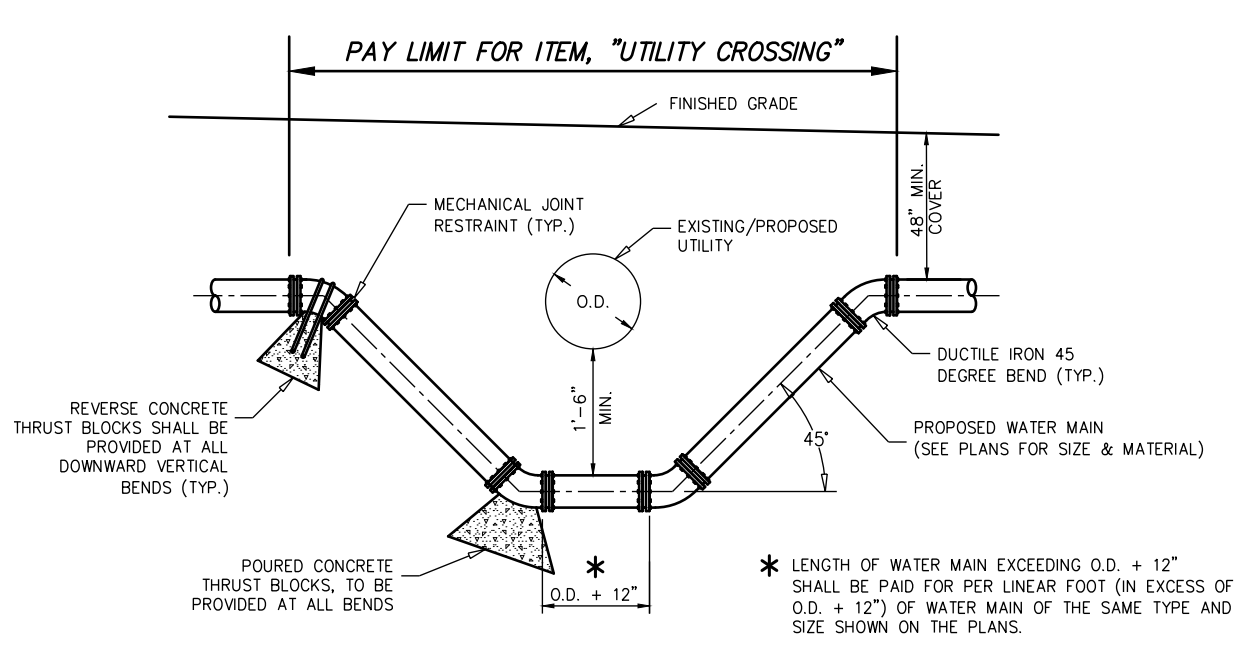
FIRE HYDRANT DETAIL
N.T.S.



SIZE	T	W	L
6"	8"	16"	16"
8"	8"	18"	18"
12"	10"	20"	20"
16"	12"	26"	26"
20"	14"	28"	28"

NOTE:
 1. THE COST OF THE CONCRETE SUPPORT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PROPOSED VALVES.

VALVE SUPPORT DETAIL
N.T.S.



NOTES:
 1. WATER MAIN MAY BE LOOPEL ABOVE/BELOW AN OBSTRUCTION, IF 48" MINIMUM COVER IS MAINTAINED ABOVE WATER MAIN AND 1'-6" VERTICAL CLEARANCE OVER THE OBSTRUCTION IS MAINTAINED.
 2. ALL MECHANICAL JOINT RESTRAINTS SHALL BE EBAA IRON SERIES 2000PV MEGALUG, M.J. FIELD LOK SERIES PV OR APPROVED EQUAL.
 3. CONCRETE THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS OR OTHER POINTS OF PIPE DIRECTION CHANGE.
 4. VERTICAL CLEARANCE BETWEEN OBSTRUCTING PIPE AND WATER MAIN SHALL BE 1'-6" MINIMUM.

**UTILITY CROSSING DETAIL - VERTICAL
(IF & WHERE DIRECTED)**
N.T.S.

DESIGN: RFR	DRAWN: RFR	CHECK: MAD	DATE: 03/23/2026
REVISION NO. DATE APPR.			
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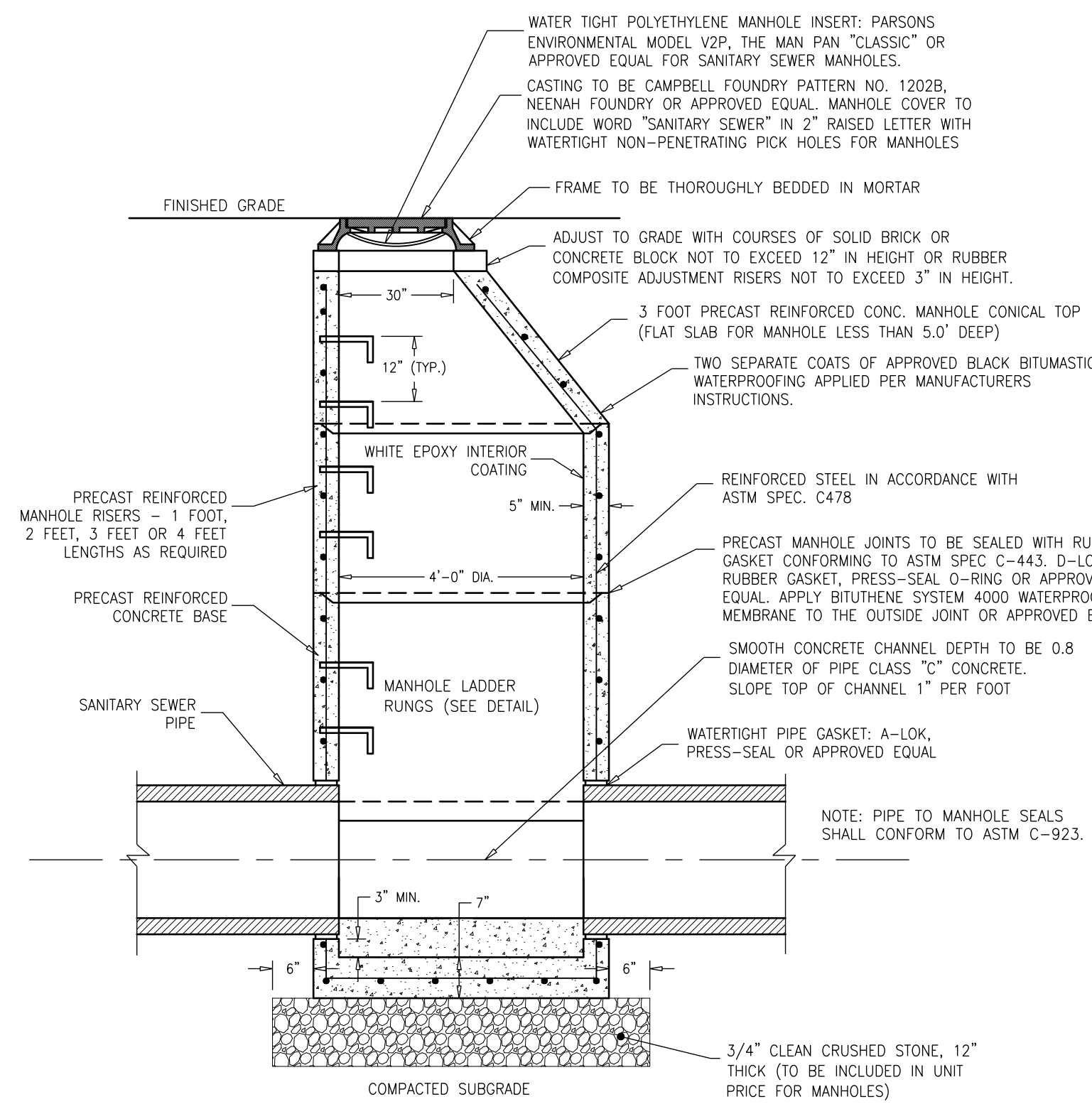
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 No. GE41999
 MARCO DEBLASIO, P.E.
 New Jersey License No. 41599
 Scale: AS NOTED Date: 3/23/2026
 Sheet No. 19 of 23

**CONSTRUCTION
DETAILS**

**DEBLASIO &
ASSOCIATES**
ENGINEERS, SURVEYORS AND PLANNERS

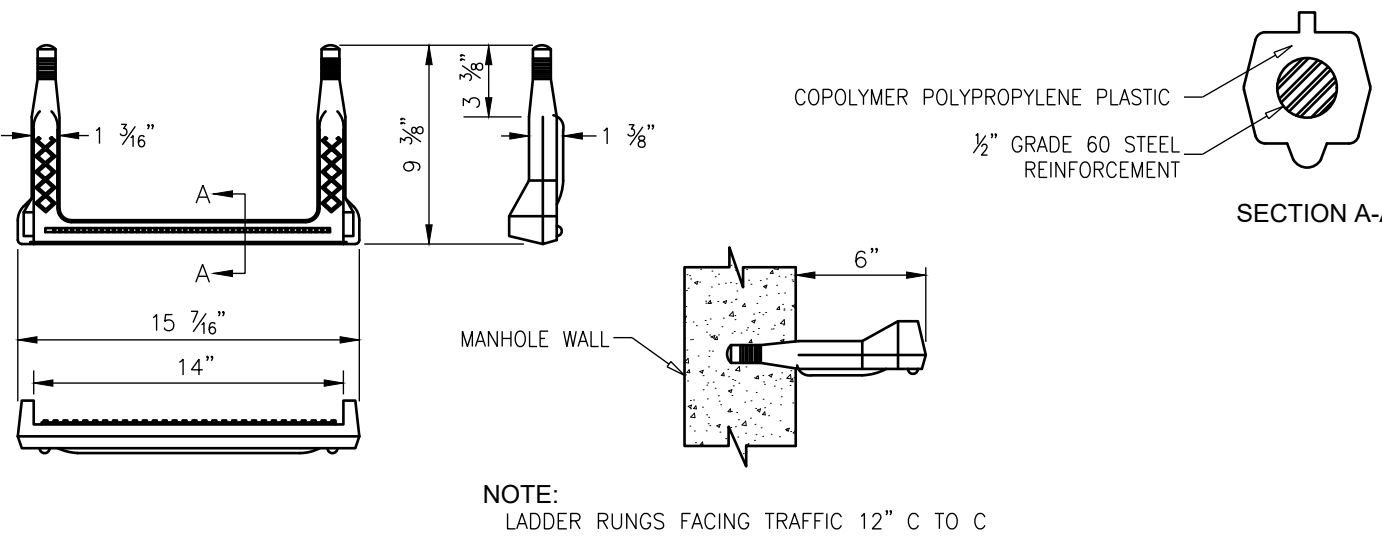
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 Certification of Authorization No. 246A28284900

**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**



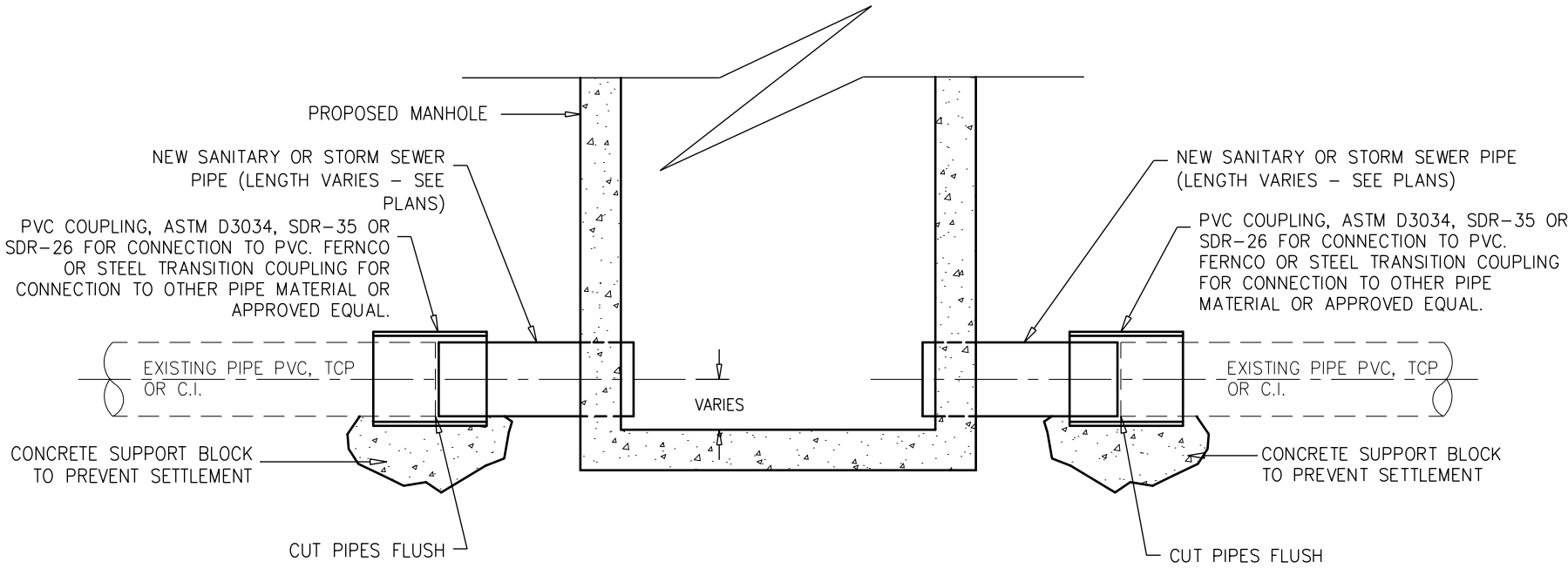
SANITARY SEWER MANHOLE, 4' DIAMETER

N.T.S.



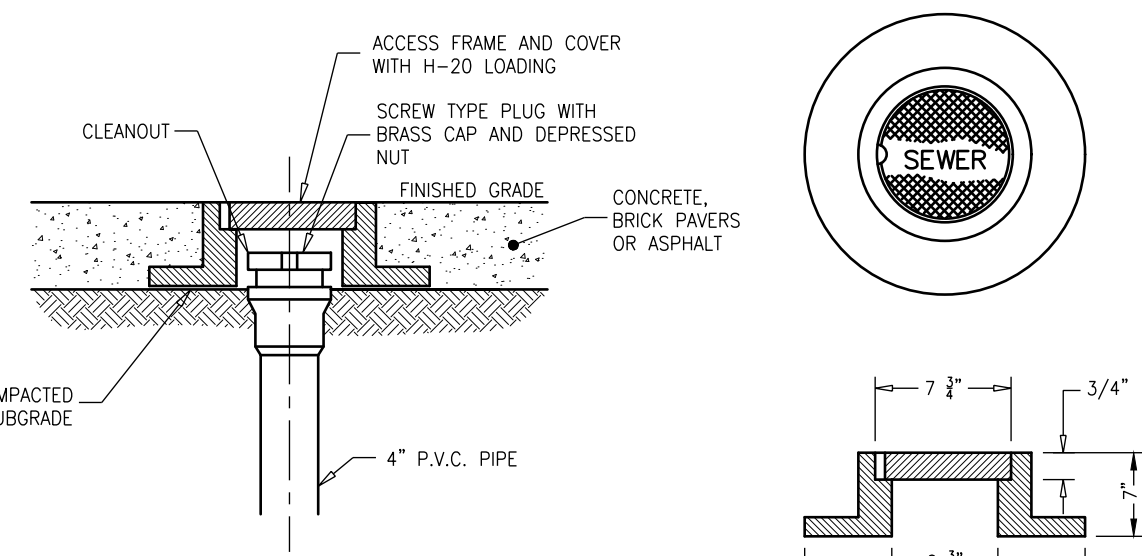
COPOLYMER POLYPROPYLENE PLASTIC LADDER RUNG

N.T.S.



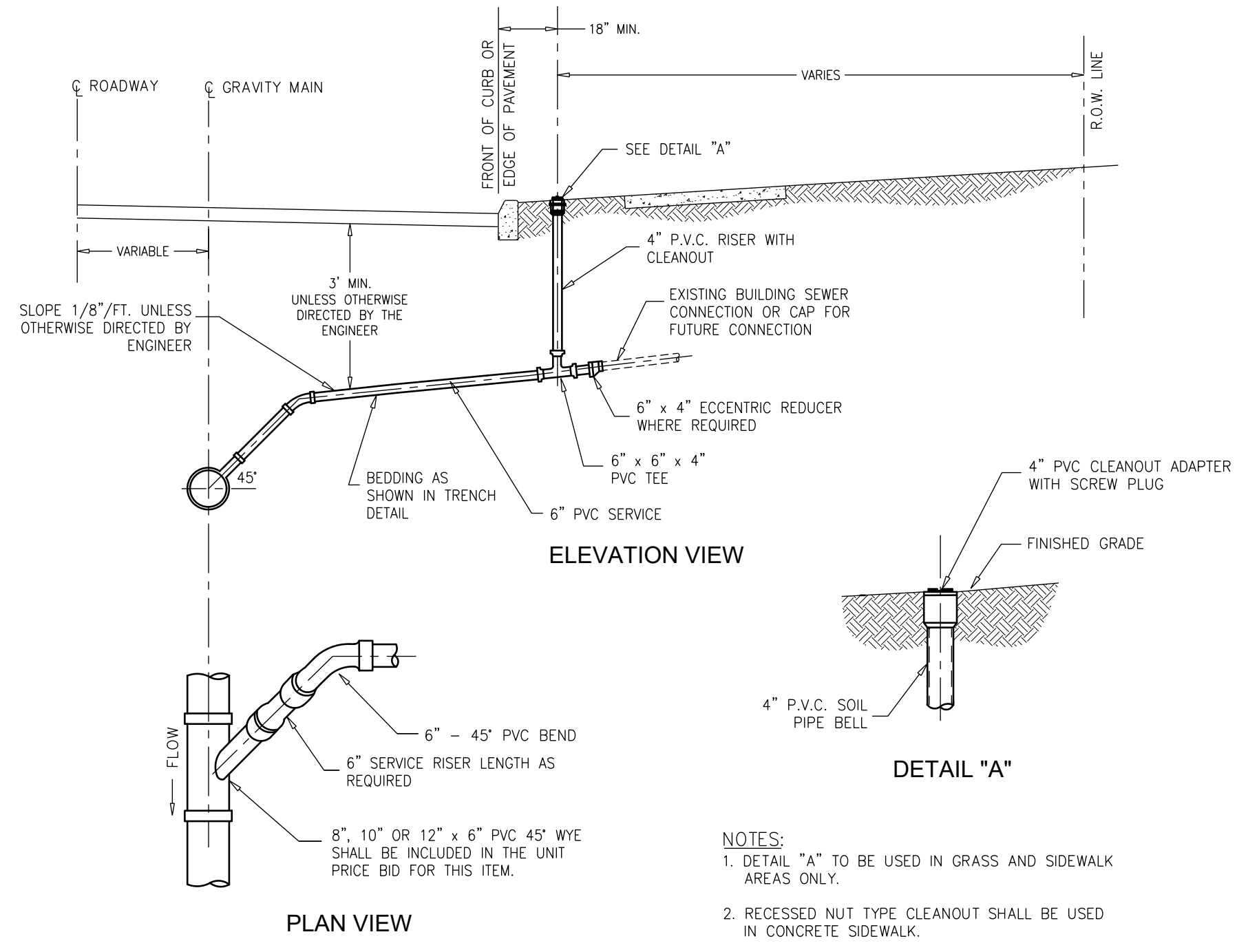
CONNECTION TO EXISTING SANITARY/STORM SEWER PIPE DETAIL

N.T.S.



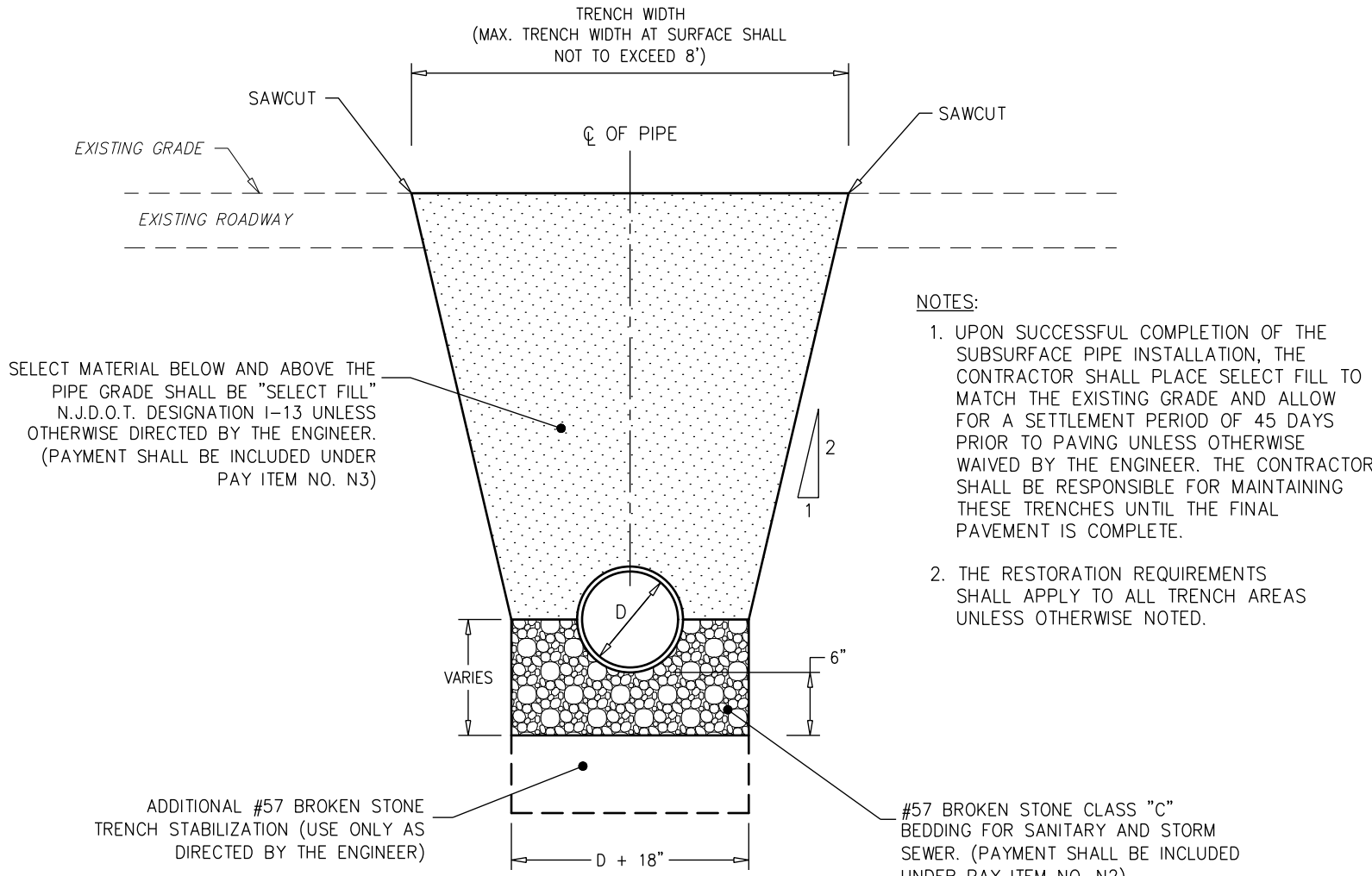
SANITARY SEWER ACCESS FRAME AND COVER DETAIL

N.T.S.



TYPICAL SANITARY SEWER SERVICE LATERAL

N.T.S.



TYPICAL TRENCH RESTORATION DETAIL FOR SANITARY PIPE AND SERVICES

N.T.S.

CONSTRUCTION DETAILS

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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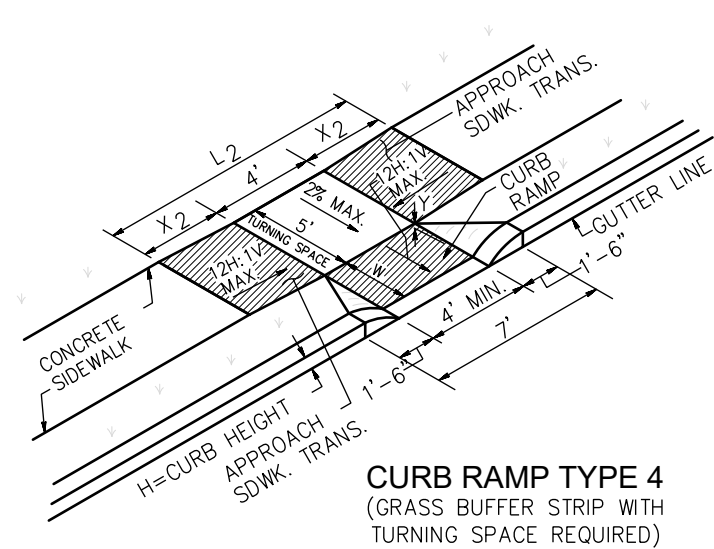
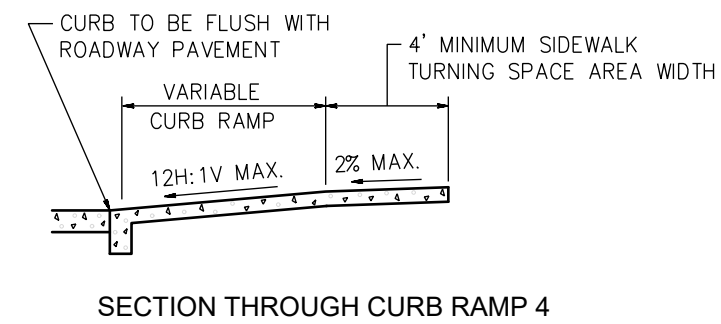
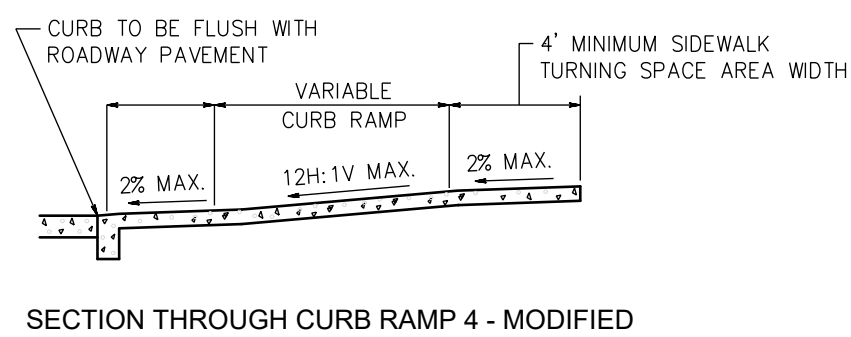
**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

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RF	RF	MAD	03/23/2026

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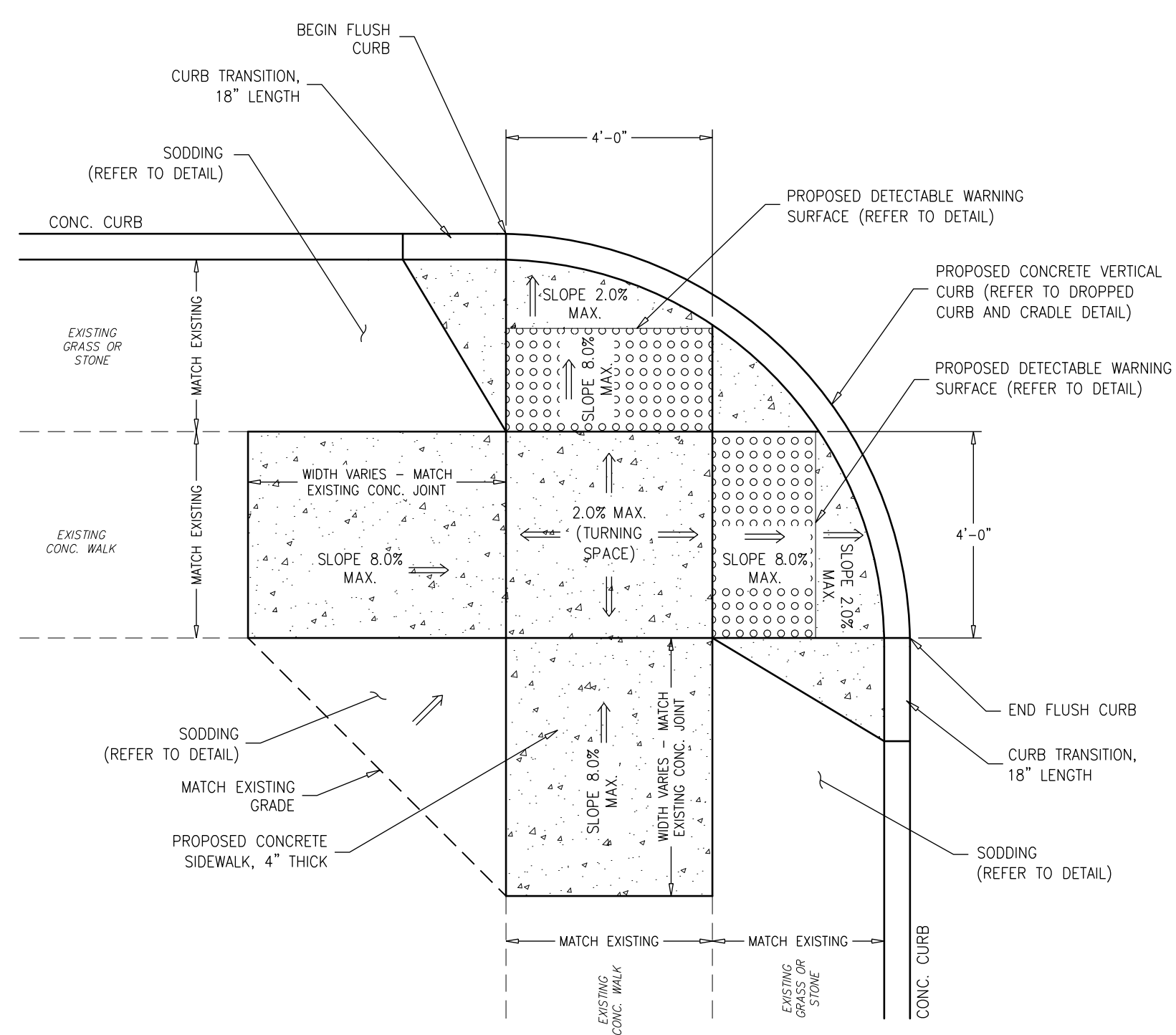
NO.	DATE	APPR.	REVISION

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CURB RAMP TYPE 4			
W	H	L	L
FEET	INCHES	FEET	FEET
2.5	3	2.5	0.5
	4	2.5	1.5
	5	2.5	2.5
	6	2.5	3.5
	7	2.5	4.5
	8	2.5	5.5
	9	2.5	6.5
3.0	3	**	**
	4	3.0	1
	5	3.0	2
	6	3.0	3
	7	3.0	4
	8	3.0	5
	9	3.0	6
3.5	3	**	**
	4	3.5	0.5
	5	3.5	1.5
	6	3.5	2.5
	7	3.5	3.5
	8	3.5	4.5
	9	3.5	5.5
4.0	3	**	**
	4	4.0	1
	5	4.0	2
	6	4.0	3
	7	4.0	4
	8	4.0	5
	9	4.0	6

** TYPE 4 RAMP IS NOT APPLICABLE, USE TYPE 2.



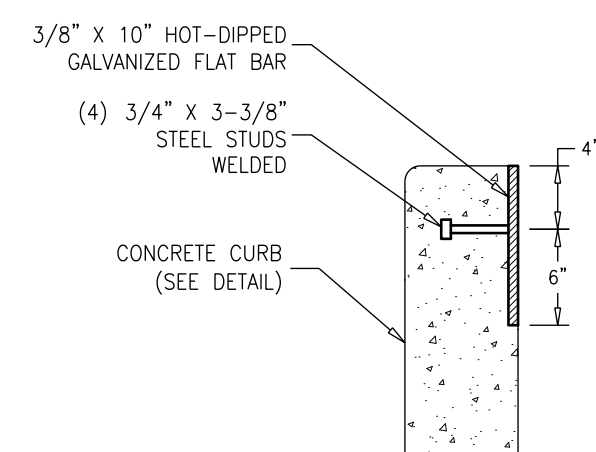
CURB RAMP TYPE 4 - MODIFIED
(GRASS BUFFER STRIP WITH TURNING SPACE REQUIRED)

NOTES:

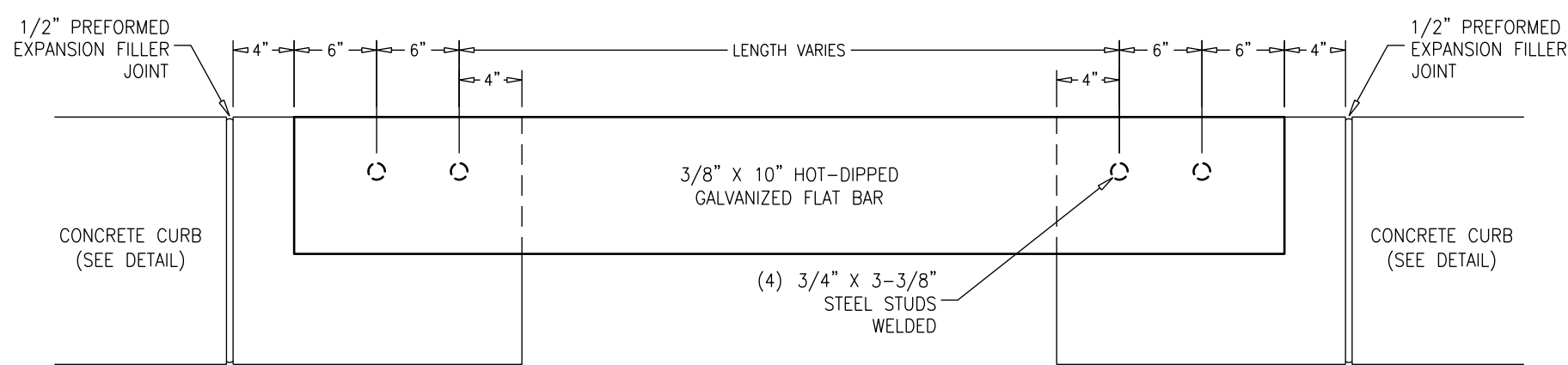
- KEEP TURNING SPACE, APPROACH SIDEWALK TRANSITIONS, AND CURB RAMP CLEAR OF OBSTRUCTIONS THAT PROTRUDE ABOVE THE SIDEWALK.
- CURB (DROPPED CURB) GUTTERLINE TO BE FLUSH WITH ROADWAY PAVEMENT A MINIMUM OF 4 FEET AT ALL CURB RAMPS.
- SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
- CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES TO BE PAID FOR AS VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
- CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
- THE 12H:14V MAX. SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:14V SLOPE MEASURED AS X2 IS THE RUNNING SLOPE FOR TYPE 3 AND TYPE 4 CURB RAMPS. ENSURE THE RUNNING SLOPE OF CURB RAMPS DOES NOT REQUIRE ITS LENGTH TO EXCEED 15 FEET. THE RUNNING SLOPE MAY EXCEED THE 12H:14V MAX. SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
- CURB RAMP TYPE 1 THROUGH 7 ARE NORMALLY PLACED ON THE RADIUS RETURN AT THE INTERSECTION AND ON A TANGENT SECTION AS DRAWN.
- THE PUBLIC SIDEWALK CURB RAMP, DETECTABLE WARNING SURFACE (SHADED AREA) SHALL BE DARK GRAY COLOR ON CONCRETE.

PUBLIC SIDEWALK CURB RAMPS

N.T.S.



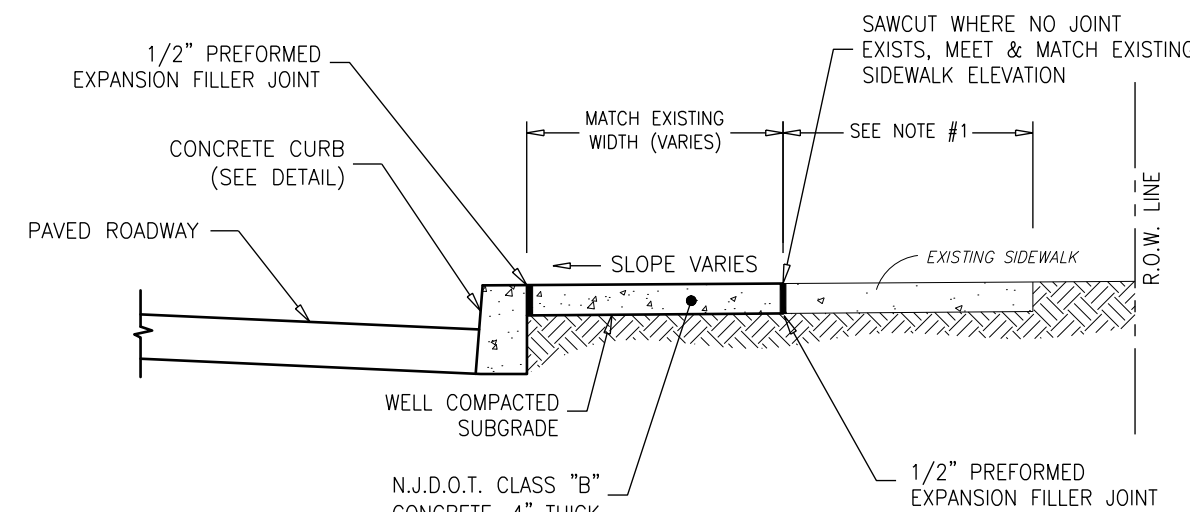
SECTION VIEW



FRONT VIEW

STEEL CURB TREE PLATE
(IF & WHERE DIRECTED)

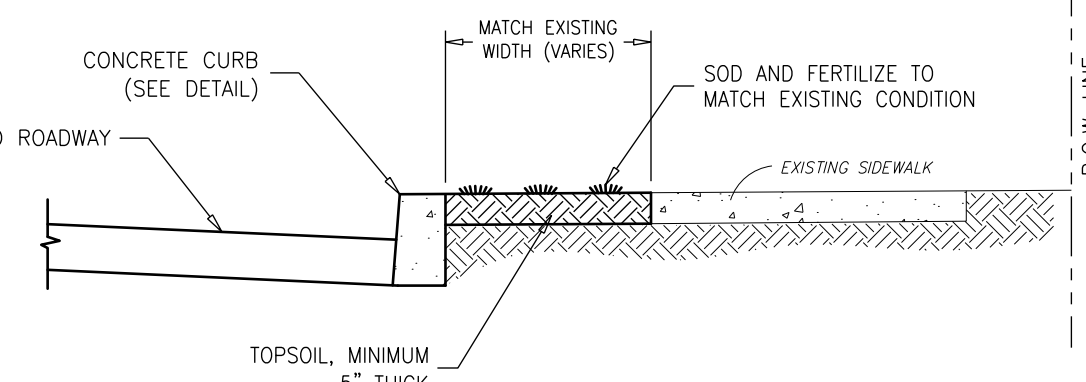
N.T.S.



CONCRETE SIDEWALK RESTORATION DETAIL

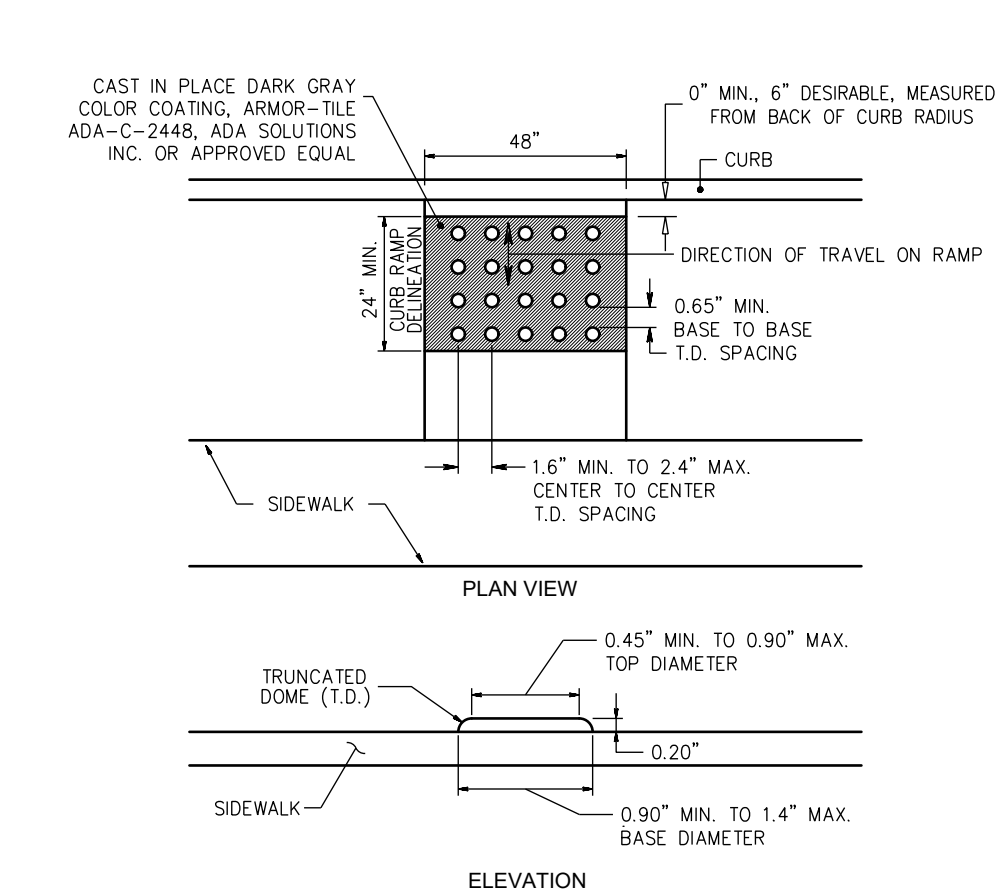
N.T.S.

NOTE:
1. INSTALL ONLY IF SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. GROSS SLOPE SHALL NOT EXCEED 2.0%.



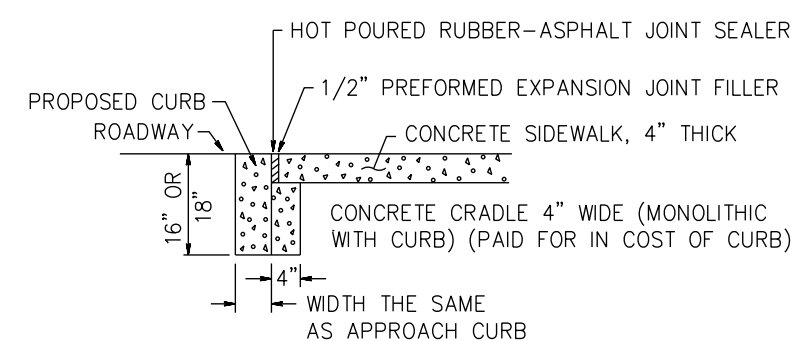
GRASS RESTORATION DETAIL

N.T.S.



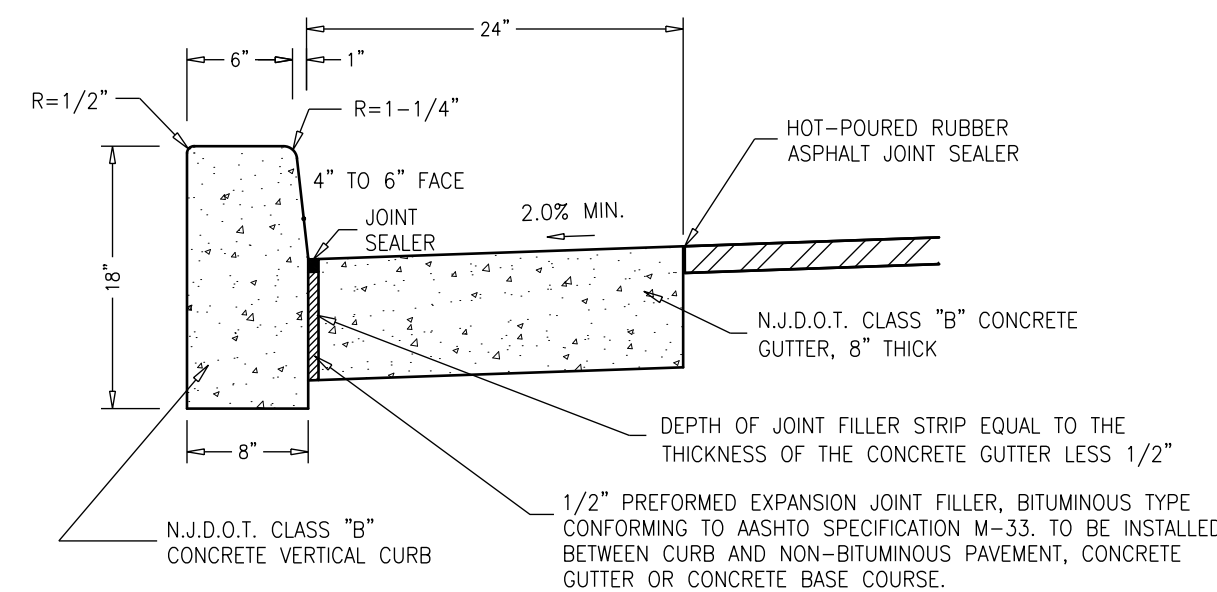
DETECTABLE WARNING SURFACE

N.T.S.



DROPPED CURB AND CRADLE AT ALL PUBLIC SIDEWALK CURB RAMPS

N.T.S.

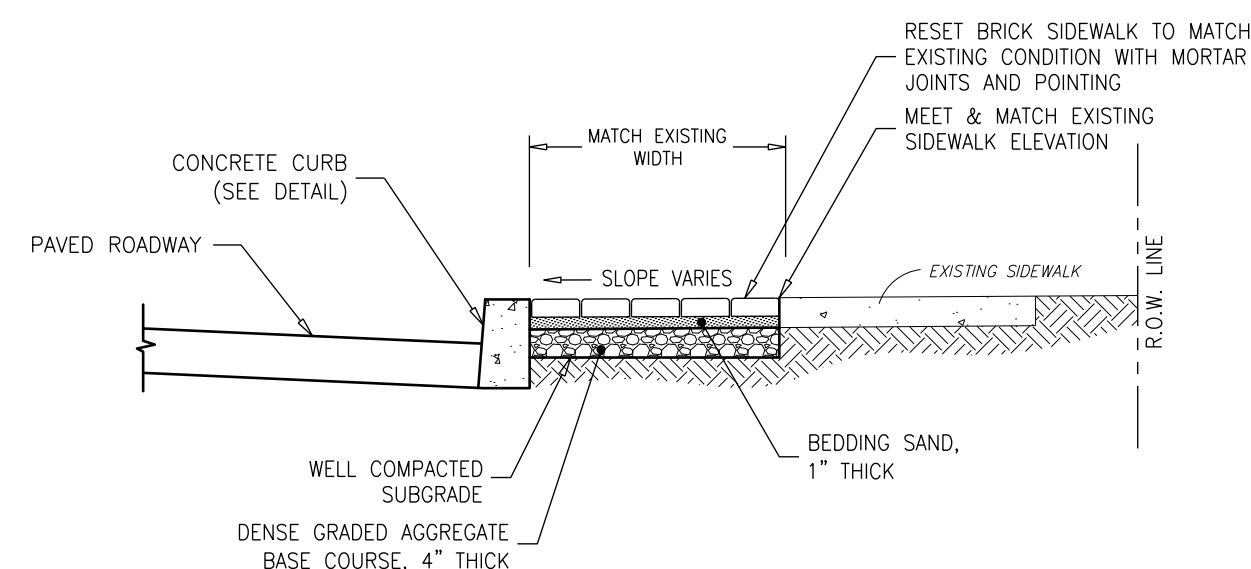


NOTES:

- TRANSVERSE JOINTS 1/2" WIDE SHALL BE INSTALLED IN THE CURB 20"-0" APART AND SHALL BE FILLED WITH PREFORMED, BITUMINOUS-IMPREGNATED FIBER JOINT FILLER, COMPLYING WITH THE REQUIREMENTS OF AASHTO M-213, RECESSED 1/4" FROM THE FRONT FACE AND TOP OF CURB.
- DUMMY JOINTS (FORMED) SHALL BE INSTALLED MIDWAY BETWEEN EXPANSION JOINTS.

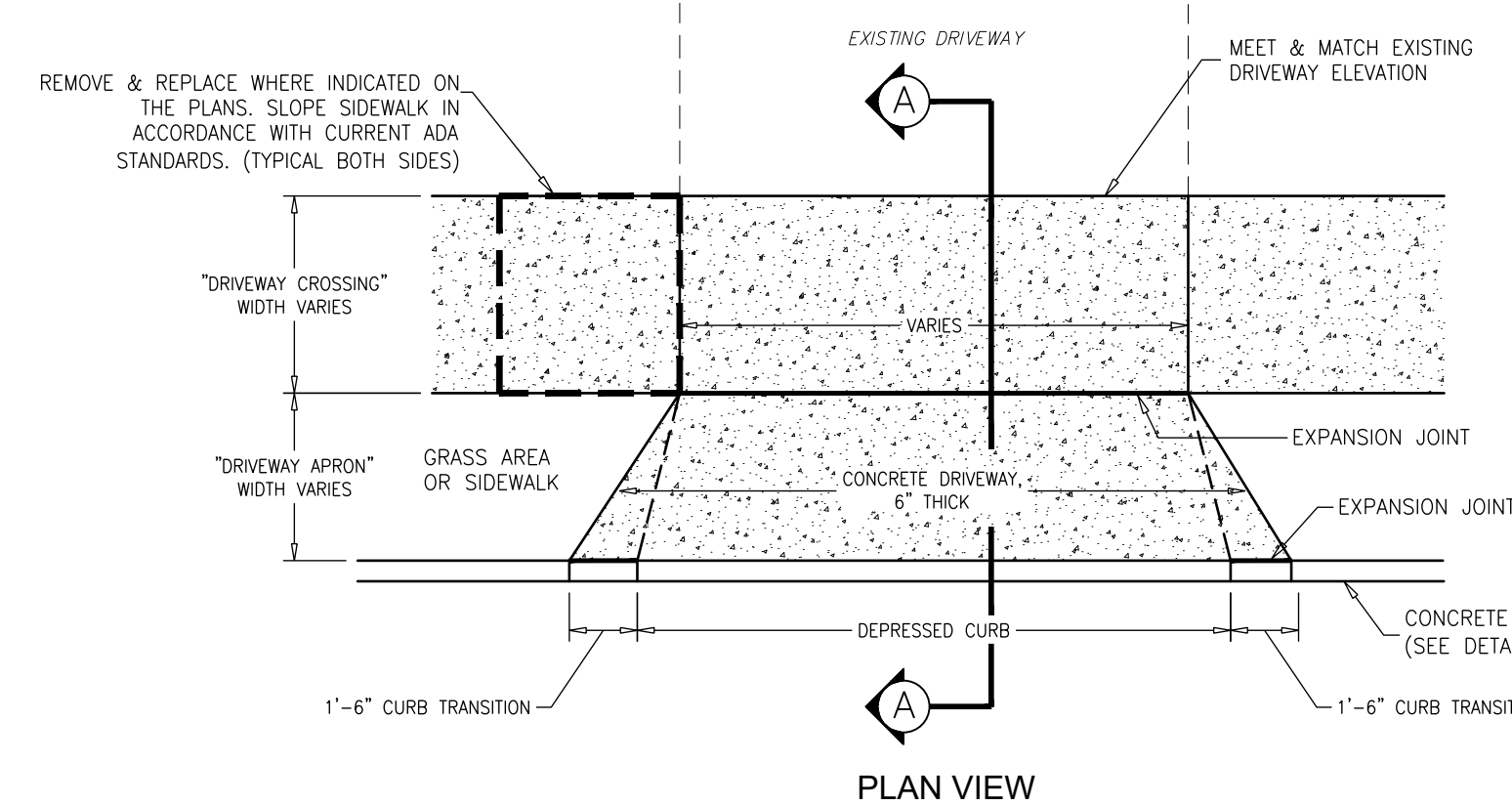
CONCRETE VERTICAL CURB AND CONCRETE GUTTER DETAIL

N.T.S.



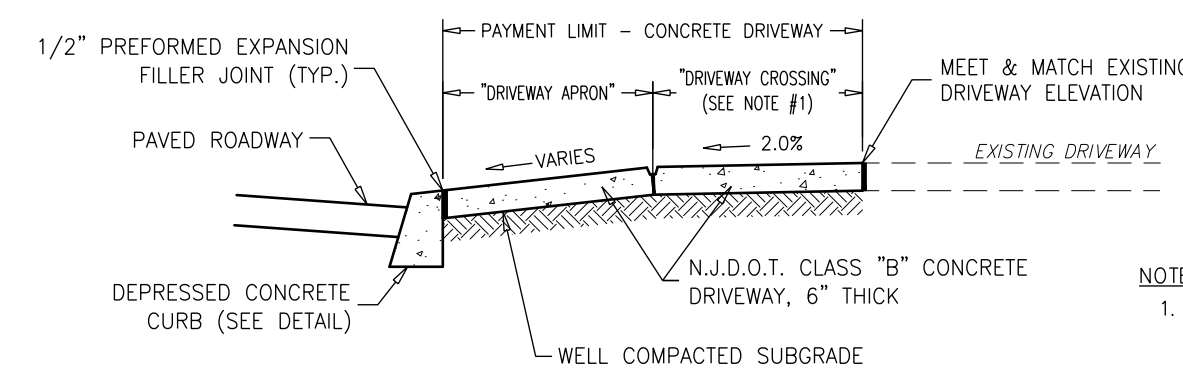
RESET BRICK SIDEWALK DETAIL

N.T.S.



CONCRETE DRIVEWAY APRON DETAIL

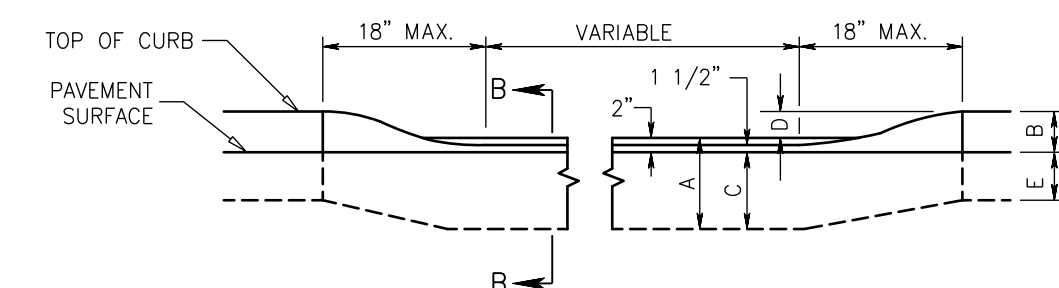
N.T.S.



SECTION A-A

CONCRETE DRIVEWAY APRON DETAIL

N.T.S.



METHOD OF DEPRESSED CURB AT DRIVEWAYS

N.T.S.

CURB SIZE	DIM. A	DIM. B	DIM. C	DIM. D	DIM. E
8" x 18"	18"	6"	16"	4"	12"
8" x 18"	18"	4"	16"	2"	14"

SECTION B-B

CONSTRUCTION DETAILS

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FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY

DESIGN	DRAWN	CHECK	DATE
RFR	RFR	MAD	03/23/2026

NO. DATE APPR. REVISION

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Scale: AS NOTED
Sheet No: 21
Total: 23

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE NJ STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL, AND WILL BE INSTALLED IN PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN TEN (10) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE TEMPORARY SEEDING, THE DISTURBED AREA WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE NJ STANDARDS (I.E. PEG AND TWIN, MULCH NETTING, OR LIQUID MULCH BINDER).
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE AND/OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF 2 TONS PER ACRE, ACCORDING TO THE NJ STANDARDS.
- STABILIZATION SPECIFICATIONS:**
 - TEMPORARY SEEDING AND MULCHING:**
 - LIME - 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER - 14 LBS/1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"
 - SEED - PERENNIAL RYEGRASS 100 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF. TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWIN, MULCH NETTING, OR LIQUID MULCH BINDER).
 - PERMANENT SEEDING AND MULCHING:**
 - LIME - 90 LBS/1,000 SF GROUND LIMESTONE; FERTILIZER - 14 LBS/1,000 SF; 10-20-10 OR EQUIVALENT WORKED INTO SOIL A MINIMUM OF 4"
 - SEED - PERENNIAL RYEGRASS 40 LBS/ACRE OR OTHER APPROVED SEEDS; PLANT BETWEEN MARCH 1 AND MAY 15 OR BETWEEN AUGUST 15 AND OCTOBER 1.
 - MULCH - SALT HAY OR SMALL GRAIN STRAW AT A RATE OF 70 TO 90 LBS/1,000 SF. TO BE APPLIED ACCORDING TO THE NJ STANDARDS. MULCH SHALL BE SECURED BY APPROVED METHODS (I.E. PEG AND TWIN, MULCH NETTING, OR LIQUID MULCH BINDER).
- TEMPORARY BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS IN ACCORDANCE WITH SECTION 4.21 OF THE NJ STANDARDS.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORM-WATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
- STOCKPILES ARE NOT TO BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, ROADWAY, OR DRAINAGE FACILITY. THE BASE OF ALL STOCKPILES SHOULD BE PROTECTED BY A HAY BALE BARRIER OR SEDIMENT FENCE.
- A CRUSHED STONE, VEHICLE WHEEL-CLEANING BLANKET WILL BE INSTALLED WHEREVER A CONSTRUCTION ACCESS ROAD INTERSECTS ANY PAVED ROADWAY. SAID BLANKET WILL BE COMPOSED OF 2 1/2" CRUSHED STONE, 6" THICK, WILL BE AT LEAST 30' x 100' AND SHOULD BE UNDERLAIN WITH A SUITABLE SYNTHETIC SEDIMENT FILTER FABRIC AND MAINTAINED.
- MAXIMUM SIDE SLOPES OF ALL EXPOSED SURFACES SHALL NOT EXCEED 3:1 UNLESS OTHERWISE APPROVED BY THE DISTRICT.
- ALL DRIVEWAYS MUST BE STABILIZED WITH 2 1/2" CRUSHED STONE OR SUBBASE PRIOR TO INDIVIDUAL LOT CONSTRUCTION.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- ALL CATCH BASIN INLETS WILL BE PROTECTED WITH A CRUSHED STONE OR FABRIC FILTER (FILTER DETAILS APPEAR ON THE PLAN).
- ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED, AS REQUIRED, BEFORE THE DISCHARGE POINTS BECOME OPERATIONAL.
- ALL DEWATERING OPERATIONS MUST DISCHARGE DIRECTLY INTO A SEDIMENT FILTER AREA. THE SEDIMENT FILTER SHOULD BE COMPOSED OF A SUITABLE SEDIMENT FILTER FABRIC (SEE DETAIL).
- THE DELATLANTIC SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 48 HOURS PRIOR TO ANY LAND DISTURBANCE.
- THE DELATLANTIC SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON OR OFF-SITE EROSION PROBLEMS DURING CONSTRUCTION.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- SEEDBED PREPARATION**
 - APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

 - PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
 - WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE DONE IN THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
 - AFTER SEEDING, FIRING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
- MULCHING**
 - MULCHING IS REQUIRED ON ALL SEEDING.
 - MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
 - SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS:
 - PEG AND TWIN - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWIN BETWEEN PEGS IN A CRISSCROSS AND SQUARE PATTERN. SECURE TWIN AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - MULCH NETTING - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - CRIMPER/MULCH ANCHORING TOOL - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
 - WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- IRRIGATION**
 - IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
- TOP DRESSING ***
 - SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
 - FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.
 - MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.
 - * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

TEMPORARY SEEDING MIXTURE

THIS SEEDING MIXTURE IS COMPOSED OF A SINGLE SPECIES WHICH GERMINATES QUICKLY IN ORDER TO REDUCE SOIL EROSION UNTIL A PERMANENT VEGETATIVE COVER CAN BE COVER ESTABLISHED. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
100%	PERENNIAL RYEGRASS	LOLIUM PERENNE

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 160 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR PERENNIAL RYEGRASS FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION

- SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MAINTENANCE.
 - INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
- SEEDBED PREPARATION**
 - APPLY LIMESTONE AND FERTILIZER. FERTILIZER SHALL BE APPLIED AT THE RATE OF 500 POUNDS PER ACRE OR 11 POUNDS PER 1,000 SQUARE FEET OF 10-20-10 OR EQUIVALENT. APPLY LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDES) AS FOLLOWS:

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	4	180
SANDY LOAM, LOAM, SILT LOAM	3	135
LOAMY SAND, SAND	2	90

 - PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
 - WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISCING OPERATION SHOULD BE DONE IN THE GENERAL CONTOUR. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED. ROLL BUT CLAY OR SILTY SOILS AND COARSE SANDS SHOULD BE ROLLED TO FIRM THE SEEDBED WHEREVER FEASIBLE.
 - REMOVE FROM THE SURFACE ALL STONES TWO INCHES OR LARGER IN ANY DIMENSION. REMOVE ALL OTHER DEBRIS, SUCH AS WIRE, CABLE, TREE ROOTS, PIECES OF CONCRETE, CLOUDS, LUMPS, OR OTHER UNSUITABLE MATERIAL.
 - INSPECT SEEDBED JUST BEFORE SEEDING, IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS ABOVE.
- SEEDING**
 - SEE PERMANENT SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
 - APPLY SEED UNIFORMLY BY HAND, CYCLONE(CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. EXCEPT FOR DRILLED, HYDROSEEDER OR CULTIPACKED SEEDING, SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 1/4 TO 1/2 INCH, BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
 - AFTER SEEDING, FIRING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
- MULCHING**
 - MULCHING IS REQUIRED ON ALL SEEDING.
 - MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRIMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT), THE RATE OF APPLICATION MUST BE DOUBLE THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
 - SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 95% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FOOT SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
 - MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS:
 - PEG AND TWIN - DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWIN BETWEEN PEGS IN A CRISSCROSS AND SQUARE PATTERN. SECURE TWIN AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - MULCH NETTING - STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - CRIMPER/MULCH ANCHORING TOOL - A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.
 - WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.
- IRRIGATION**
 - IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
- TOP DRESSING ***
 - SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
 - FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.
 - MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.
 - * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

PERMANENT SEEDING MIXTURE (DRY)

THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS BECLIM CONSERVATION MIX-DRY FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
50	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
20	RELIANT HARD FESCUE	FESTUCA LONGIFOLIA "RELIANT"
10	JAMESTOWN CHEWINGS FESCUE	FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN"
10	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
5	WHITE CLOVER	TRIFOLIUM REPENS
5	BLACKWELL SWITCHGRASS	PANICUM VIRGATUM "BLACKWELL"

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 175 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

PERMANENT SEEDING MIXTURE (MOIST)

THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS BECLIM CONSERVATION MIX-MOIST FORMULA AS MANUFACTURED BY LOFTS, INC., BOUND BROOK, N.J. 08805, (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.

%	COMMON NAME	BOTANICAL NAME
55	CLEMFINE TALL FESCUE	FESTUCA ARUNDINACEA "CLEMFINE"
15	NASSAU KENTUCKY BLUEGRASS	POA PRATENSIS "NASSAU"
10	PALMER PERENNIAL RYE	LOLIUM PERENNE "PALMER"
10	LASER POA TRIVIALIS	POA TRIVIALIS "LASER"
5	STREAKER REDTOP	AGROSTIS ALBA "STREAKER"
5	RED CANARY GRASS	PHALARIS ARUNDINACEA

THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE.

THE OPTIMAL SEEDING DATES FOR MOST COOL SEASON GRASSES FOR CAPE-ATLANTIC REGION ARE 2/15 - 4/30 AND 8/15 - 10/30. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

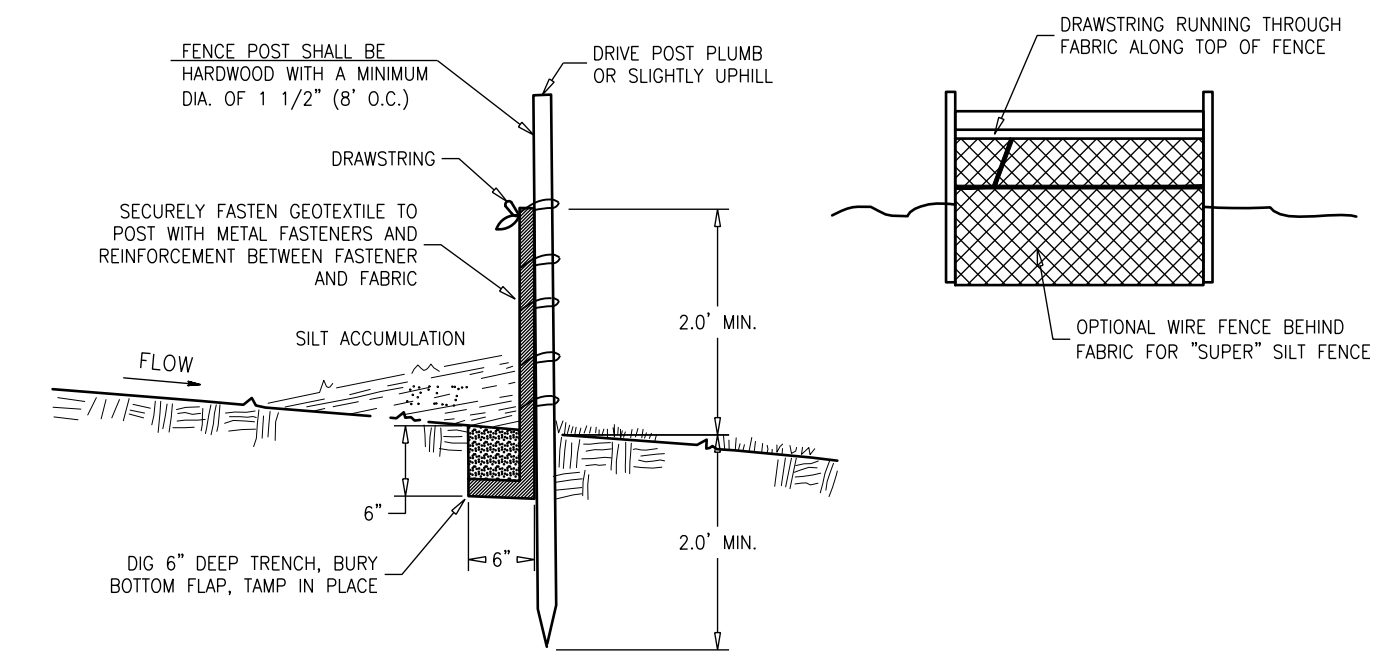
SPECIAL NOTES

- TEMPORARY STABILIZATION - ALL EXPOSED AREAS NOT TO BE CONSTRUCTED UPON WITHIN 14 DAYS SHOULD RECEIVE TEMPORARY STABILIZATION. THE TEMPORARY SEEDING MIXTURES SHALL BE ANNUAL RYE GRASS AT A RATE OF 4 POUND PER 1000 SQ. FT. AND LIMED AT A RATE OF 45 LBS. PER 1000 SQ. FT.
- PERMANENT STABILIZATION - ALL EXPOSED AREAS WHICH ARE TO BE PERMANENTLY VEGETATED SHOULD BE SEEDED WITHIN 7 DAYS OF FINAL GRADING, ACCORDING TO THE PERMANENT SEEDING SPECIFICATIONS.

TOP SOILING

TOPSOIL SHOULD BE USED WHERE SOILS ARE: SANDS, GRAVELY SOILS, CLAYS, SILTY CLAYS, VERY SHALLOW, OR WHERE THEY ARE EXTREMELY ACID (LESS THAN pH4.0) OR SALTY (COND- ACTIVITY GREATER THAN 1.0 MILLIMOLS PER CENTIMETER); OR WHERE TOPSOIL IS AVAILABLE ON SITE AND ASSURANCE OF IMPROVED VEGETATIVE GROWTH IS DESIRED.

- MATERIALS**
 - TOPSOIL SHOULD BE FRABLE AND LOAMY, FREE OF DEBRIS, OBJECTIONABLE WEEDS AND STONES, AND CONTAIN NO TOXIC SUBSTANCE THAT MAY BE HARMFUL TO PLANT GROWTH. A pH RANGE OF 5.0-7.5 IS ACCEPTABLE. SOLUBLE SALTS SHOULD NOT BE EXCESSIVE (CONDUCTIVITY LESS THAN 0.5 MILLIMOLS PER CENTIMETER). TOPSOIL HAULED IN FROM OFF SITE SHOULD HAVE A MINIMUM ORGANIC MATTER CONTENT OF 2.75 PERCENT. ORGANIC MATTER CONTENT MAY BE RAISED BY ADDITIVES.
- STRIPPING AND STOCKPILING**
 - FIELD EXPLORATION SHOULD BE MADE TO DETERMINE WHETHER QUANTITY AND/OR QUALITY OF SURFACE SOIL JUSTIFIES STRIPPING.
 - STRIPPING SHOULD BE CONFINED TO THE IMMEDIATE CONSTRUCTION AREA.
 - WHERE FEASIBLE, LIME MAY BE APPLIED BEFORE STRIPPING AT A RATE DETERMINED BY SOIL TESTS TO BRING THE SOIL pH TO 6.5. IN LACK OF SOIL TESTS, USE LIME RATE GUIDE IN SEEDBED PREPARATION FOR PERMANENT VEGETATIVE COVER.
 - A 4-6 INCH STRIPPING DEPTH IS COMMON, BUT MAY VARY DEPENDING ON THE PARTICULAR SOIL.
 - STOCKPILES OF TOPSOIL SHOULD BE SITUATED SO AS NOT TO OBSTRUCT NATURAL DRAINAGE OR CAUSE OFF-SITE ENVIRONMENTAL DAMAGE.
 - STOCKPILES SHOULD BE VEGETATED IN ACCORDANCE WITH TEMPORARY SEEDING STANDARDS PREVIOUSLY DESCRIBED HEREIN.
- SITE PREPARATION**
 - GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING, AND MAINTENANCE.
 - SUBSOIL SHOULD BE TESTED FOR LIME REQUIREMENT AND LIMESTONE, IF NEEDED, SHOULD BE APPLIED TO BRING SOIL pH TO 6.5 AND INCORPORATED INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES.
 - IMMEDIATELY PRIOR TO TOPSOIL DISTRIBUTION, THE SURFACE SHOULD BE SCARIFIED 6" - 12" WHERE THERE HAS BEEN SOIL COMPACTION.
 - EMPLOY NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENTATION BASINS, AND WATERWAYS.
- APPLY TOPSOIL**
 - TOPSOIL SHOULD BE HANDLED ONLY WHEN IT IS DRY ENOUGH TO WORK WITHOUT DAMAGING SOIL STRUCTURE; I.E., LESS THAN FIELD CAPACITY.
 - TOPSOIL SHALL BE APPLIED TO A UNIFORM DEPTH OF 5.0 INCHES (FIRMED IN PLACE).



NOTES:

- EXCAVATE A 6"x6" TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
- UNROLL THE SILT FENCE GEOTEXTILE AND POSITION THE POLES AGAINST THE BACK(DOWNSTREAM) WALL OF THE TRENCH.
- LAY THE TOE-IN FLAP OF THE FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL.

SILT FENCE DETAIL OR APPROVED EQUAL

N.T.S.

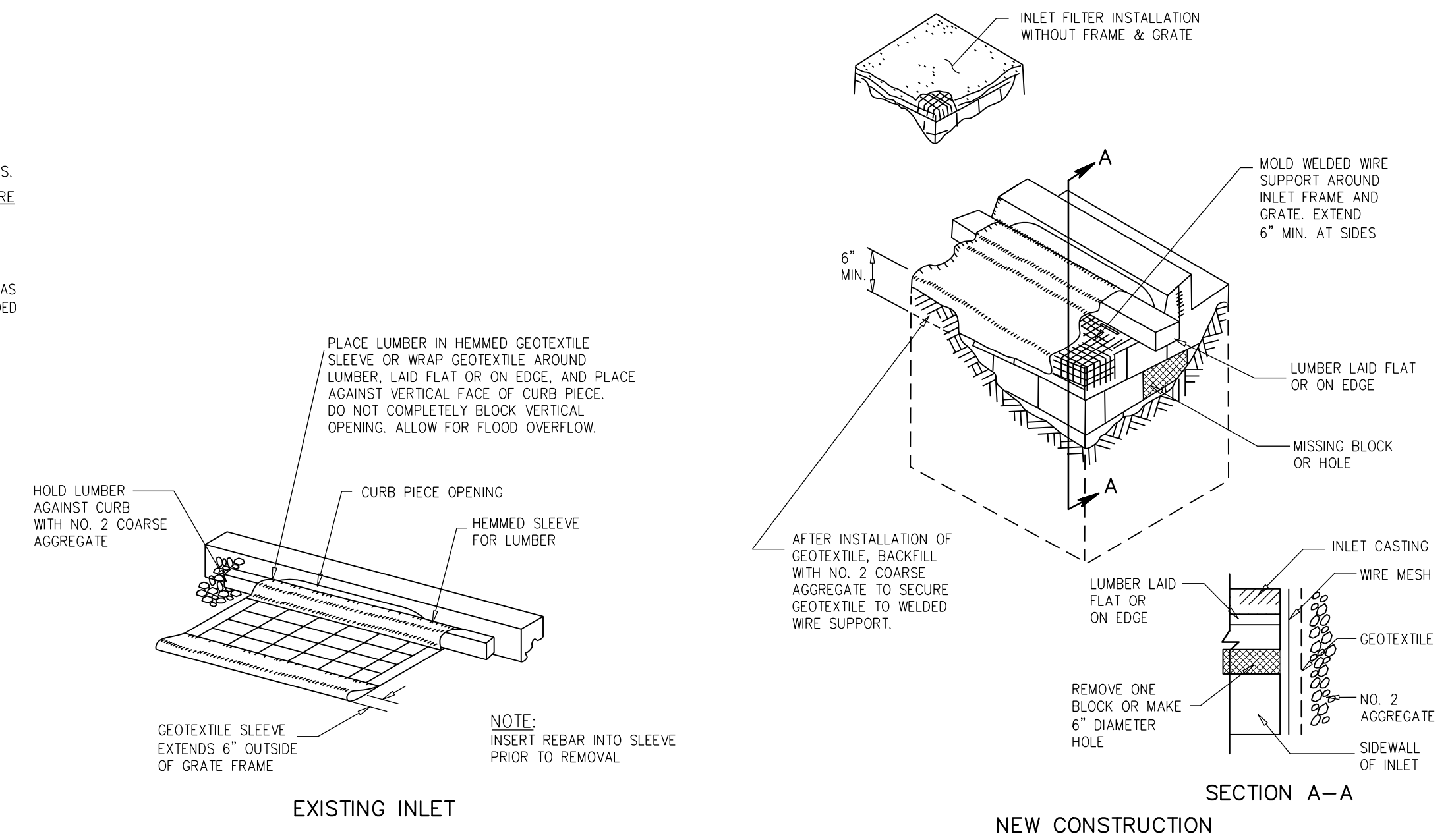
DUST CONTROL

- THE PURPOSE OF DUST CONTROL MEASURES IS TO PREVENT THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES, REDUCE ON-SITE AND OFF-SITE DAMAGE & HEALTH HAZARDS, AND IMPROVE TRAFFIC SAFETY.
 - MULCHES - REVIEW MULCHING NOTES ABOVE.
 - VEGETATIVE COVER - REVIEW NOTES ON TEMPORARY COVER.
 - SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
- MATERIAL**

	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLON/ACRE
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM) - SPRAY ON		APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD, PAGE 26-1.	
POLYACRYLAMIDE (PAM) - DRY SPREAD		COARSE SPRAY	1200
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200
- TILLAGE** - TO ROUGHEN SURFACE AND BRING CLOUDS TO THE SURFACE. THIS IS A RISKY EMERGENCY MEASURE WHICH SHOULD BE USED BEFORE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE OF SITE. CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING-TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
- SPRINKLING** - SITE IS SPRINKLED UNTIL THE SURFACE IS WET.
- BARRIERS** - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY AND SIMILAR MATERIAL CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
- STONE** - COVER SURFACE WITH CRUSHED STONE OR COARSE GRAVEL.

GENERAL NOTES:

- A REPORT OF COMPLIANCE MUST BE OBTAINED FROM THE DISTRICT PRIOR TO RECEIVING A CERTIFICATE OF OCCUPANCY FROM THE MUNICIPALITY. A REQUEST FOR A DISTRICT INSPECTION FOR THE RELEASE OF A REPORT OF COMPLIANCE MUST BE MADE 5 WORKING DAYS IN ADVANCE. THIS APPLIES TO BOTH COMPLETE (FINAL) AND CONDITIONAL (TEMPORARY) CERTIFICATES. ALL STREETS AND UNITS MUST BE PROPERLY IDENTIFIED. A REPORT OF COMPLIANCE WILL NOT BE RELEASED FOR A UNIT IF IT CAN NOT BE IDENTIFIED. IDENTIFY ALL UNITS AT THE SITE BY BLOCK, LOT, AND STREET ADDRESS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION OR SEDIMENTATION THAT MAY OCCUR BELOW STORMWATER OUTFALLS OR OFFSITE AS A RESULT OF CONSTRUCTION OF THE PROJECT.
- THE CONTRACTOR SHALL REMOVE ANY SEDIMENT THAT MAY BE SPILLED, DROPPED OR TRACKED OFF THE PROJECT SITE. ALL PAVED RIGHT-OF-WAYS ADJACENT TO THE PROJECT SITE MUST BE MAINTAINED IN A CLEAN, SWEEP CONDITION THROUGHOUT CONSTRUCTION.



INLET FILTERS, TYPE 1

N.T.S.

SOIL EROSION & SEDIMENT CONTROL PLAN

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

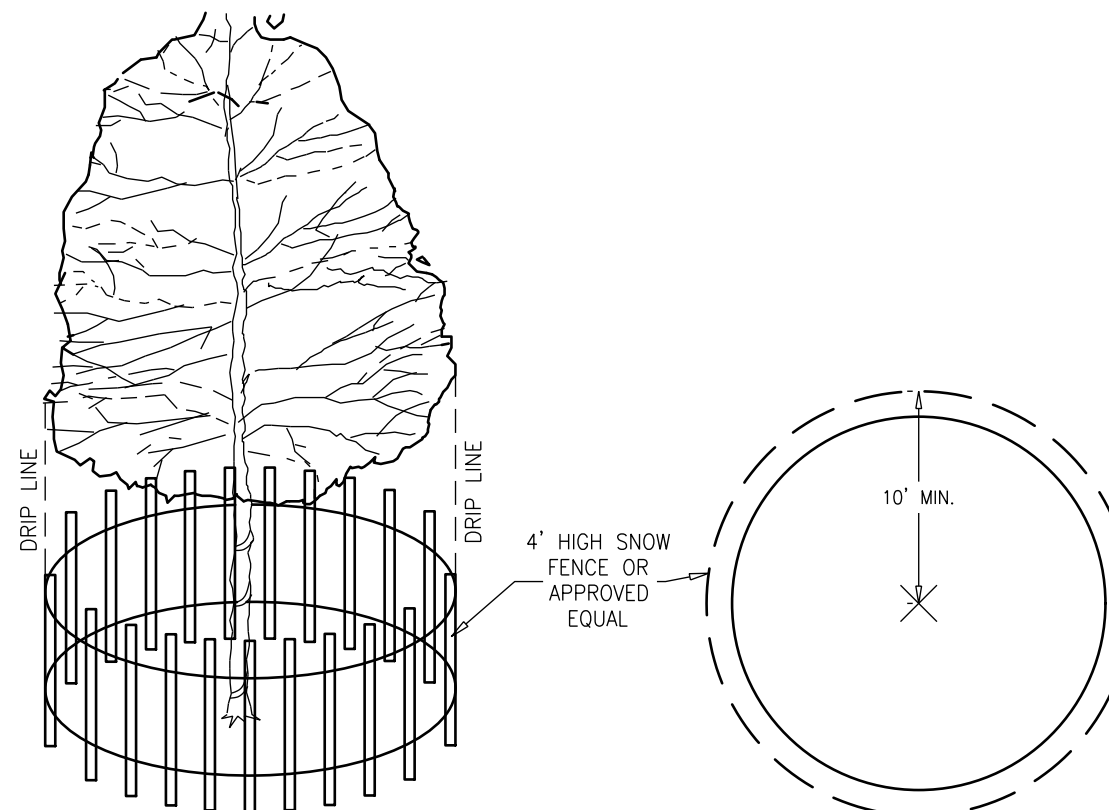
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DATE 3/23/2026
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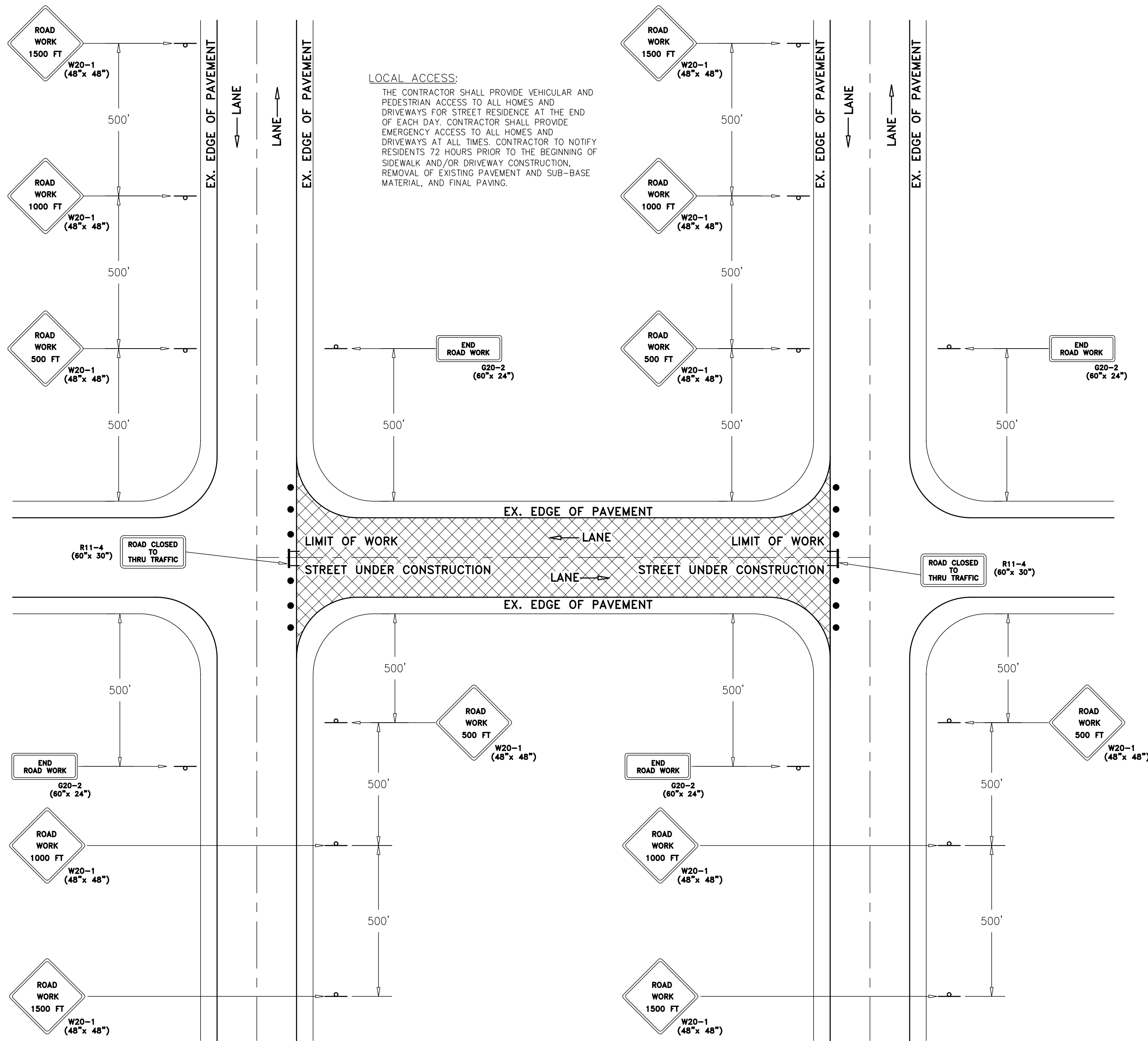
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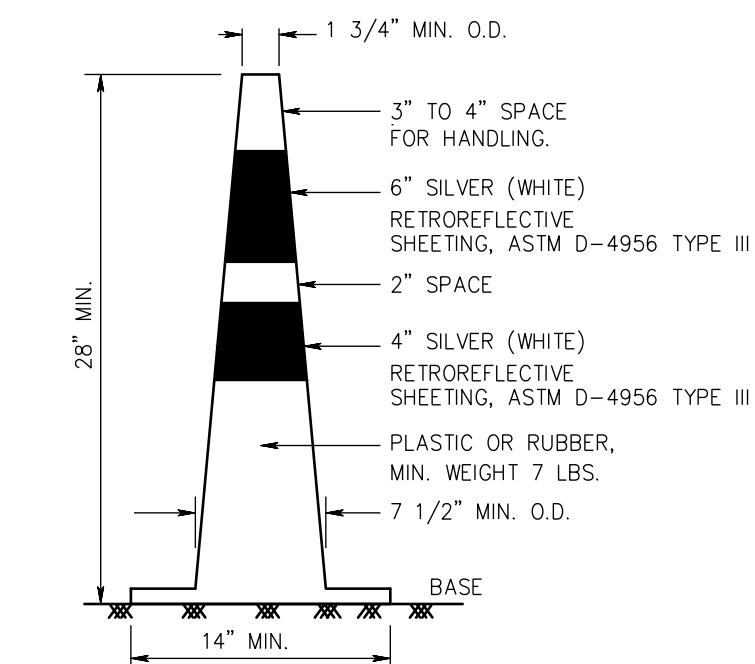
TREE PROTECTION DETAIL

N.T.S.



TYPICAL STREET TRAFFIC CONTROL PLAN

N.T.S.

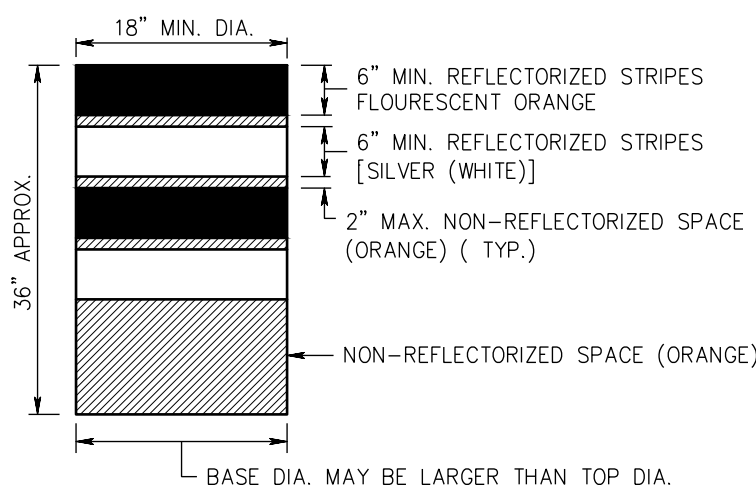


NOTES:
TRAFFIC CONES MUST BE PREDOMINATELY ORANGE IN COLOR.
BASES MAY BE OF BREAKAWAY BALLASTED TYPE.
MINOR MANUFACTURER'S VARIATIONS MAY BE ACCEPTABLE UPON APPROVAL OF THE ENGINEER.

TRAFFIC CONES

N.T.S.

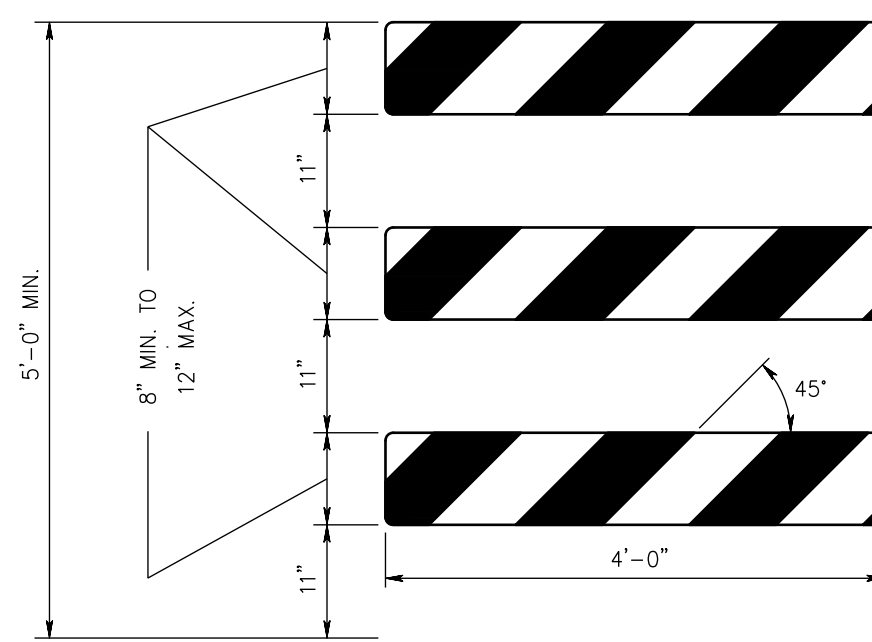
DRUMS SHALL BE MADE OF ORANGE PLASTIC WITH A MINIMUM OF FOUR ALTERNATE FLUORESCENT ORANGE AND SILVER (WHITE) RETROREFLECTIVE STRIPES. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE STRIPES, THEY SHALL BE NO MORE THAN 2" WIDE. ENSURE RETROREFLECTIVE SHEETING FOR STRIPES CONFORMS WITH ASTM D 4956 TYPE VII OR VII WITH S2 REQUIREMENTS.
ENSURE THE TOP OF THE DRUM IS NOT OPEN. CONSTRUCT DRUMS 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 INCH DIAMETER ROUND DRUM REGARDLESS OF ORIENTATION, MAY BE USED.



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. ALTERNATE TYPES OF BALLAST SHALL BE APPROVED BY THE ENGINEER.

DRUM DETAIL

N.T.S.



TYPE III BARRICADE - FRONT VIEW

- NOTES:**
- ENSURE THE 8" MIN. x 48", TO 12" MAX. x 48" BARRICADE RAILS TO BE ATTACHED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.
 - ENSURE ORANGE AND SILVER (WHITE) STRIPES TO BE RETROREFLECTIVE SHEETING, ASTM D 4956 TYPE III. ALTERNATE ORANGE AND SILVER (WHITE) STRIPES 6" WIDE SLOPING DOWNWARD AT AN ANGLE OF 45 DEGREES IN THE DIRECTION TRAFFIC IS TO PASS.
 - THE FRAMING, RAILS, AND BALLAST FOR BREAKAWAY BARRICADE TO BE NCHRP-350 CRASHED TESTED AND FHWA APPROVED.
 - IF NECESSARY, FABRICATE THE BALLAST AND PLACE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.

BREAKAWAY BARRICADES

N.T.S.

LEGEND

- BREAKAWAY BARRICADES
- BREAKAWAY BARRICADES WITH SIGN
- CONSTRUCTION SIGNS
- DRUMS
- CONE
- PRECAST CONCRETE CURB CONSTRUCTION BARRIER (TYPE SPECIFIED)
- DIRECTION OF TRAFFIC FLOW
- FLAGGER
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING CAUTION MODE
- ILLUMINATED FLASHING ARROW MOUNTED ON TOWING VEHICLE SHOWING ARROW PATTERN (Left, Right, Both)
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING CAUTION MODE
- TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION AND ARROW BOARD SHOWING ARROW PATTERN (Left, Right, Both)
- TEMPORARY CRASH CUSHION, INERTIAL BARRIER SYSTEM
- TEMPORARY CRASH CUSHION, (all other approved)
- BUFFER ZONE
- WORK AREA
- PAINT STRIPPING TRUCK OR OTHER OPERATING VEHICLE

GENERAL NOTES:

- ADVANCE WARNING SIGNS, DISTANCES, AND TAPER LENGTHS MAY BE EXTENDED, AT DIRECTION OF THE ENGINEER, TO ADJUST FOR REDUCED VISIBILITY DUE TO HORIZONTAL AND VERTICAL CURVATURE OF THE ROADWAY.
- THE APPROXIMATE LOCATIONS OF THE ILLUMINATED FLASHING ARROW BOARDS ARE SHOWN ON THE TRAFFIC CONTROL PLANS. THESE LOCATIONS MAY BE MODIFIED TO ADJUST FOR VISIBILITY DUE TO HORIZONTAL OR VERTICAL CURVATURE OF THE ROADWAY OR TO POSITION AT A SAFER LOCATION. ILLUMINATED FLASHING ARROW BOARDS ARE TO BE USED FOR TEMPORARY LANE CLOSURES AND AT LOCATIONS SHOWN ON THE TRAFFIC CONTROL PLANS.
- PRIOR TO ANY ROAD CONSTRUCTION, TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE IN PLACE.
- RAMP AND/OR SIDE STREETS ENTERING THE ROADWAY AFTER THE FIRST ADVANCE WARNING SIGN SHALL BE PROVIDED WITH AT LEAST ONE W20-IF SIGN (ROAD WORK AHEAD) AS A MINIMUM.
- ALL EXISTING ROAD SIGNS, PAVEMENT MARKINGS AND/OR PLOWABLE PAVEMENT REFLECTORS WHICH CONFLICT WITH THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE COVERED, REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER.
- CONFLICTING OR NON-OPERATING SIGNAL INDICATIONS ON EITHER THE EXISTING, TEMPORARY, OR PROPOSED TRAFFIC SIGNAL SYSTEMS SHALL BE BAGGED OR COVERED.
- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES - PART VI "STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS", UNLESS OTHERWISE NOTED IN THE PLANS AND SPECIFICATIONS, AND SHALL BE APPROVED BY THE ENGINEER.
- CONSTRUCTION SIGN W99-2 (GIVE US A BRAKE) SHALL BE LOCATED 200 FEET IN ADVANCE OF PROJECT LIMITS.
- A W1-6 (ARROW) SIGN MOUNTED ON A BREAKAWAY BARRICADE AND CENTERED ON THE CLOSED WIDTH SHALL BE LOCATED 100 FEET BEYOND EACH INTERSECTION OR MAIN ACCESS POINT WITHIN THE AREA OF A LANE OR SHOULDER CLOSURE.
- CONSTRUCTION SIGNS R11-4 (ROAD CLOSED TO THRU TRAFFIC) SHALL BE PLACED AT THE INTERSECTING STREETS WHICH ARE CLOSED TO TRAFFIC BECAUSE OF CONSTRUCTION.
- CONSTRUCTION SIGNS W8-9A (SYMBOL FOR UNEVEN PAVEMENT) AND W8-14A (GROOVED PAVEMENT) SHALL BE USED WHEN SUCH PAVEMENT CONDITIONS EXIST. THE PLACEMENT OF THESE SIGNS SHALL BE AS DIRECTED BY THE ENGINEER.
- MOVING WORK AREAS IN A LANE CLOSURE REQUIRE A TRAILER MOUNTED ILLUMINATED FLASHING ARROW TO REMAIN AT THE END OF THE TAPER, THE TRAFFIC CONTROL TRUCK WITH MOUNTED CRASH CUSHION THAT SHALL MOVE WITH THE WORK AREAS TO KEEP A 70 FEET MIN. AND 150 FEET MAX. BUFFER IN ADVANCE OF EACH WORK AREA.
- THE CONTRACTOR SHALL SUBMIT A PLAN FOR THE SAFE ACCESS OF CONSTRUCTION VEHICLES THROUGHOUT THE WORK SITE WHERE SPACE CONSTRAINTS PREVENT THE USE OF LANE CLOSURES. THE PLAN SHALL BE SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL EXCAVATED AREAS WITHIN OR ADJACENT TO THE ROADWAY SHALL BE BACKFILLED AND PLACED ON A MINIMUM 6H : 1V SLOPE PRIOR TO THE END OF EACH WORK DAY. OTHER EXCAVATED AREAS WITHIN THE CLEAR ZONE ARE TO BE EITHER BACKFILLED OR A PRECAST CONCRETE CURB CONSTRUCTION BARRIER SET TEMPORARILY IN PLACE TO SHIELD VEHICULAR AND PEDESTRIAN TRAFFIC.
- WHERE REQUIRED, THE CONTRACTOR SHALL MAKE PROVISIONS FOR MAINTAINING PEDESTRIAN CROSSING LOCATIONS AND TYPE AS DIRECTED BY THE ENGINEER.
- HOT MIX ASPHALT PLACED DURING THE VARIOUS CONSTRUCTION STAGES SHALL BE TRANSITIONED ON A MINIMUM 20H : 1V SLOPE TO MEET THE ADJACENT EXISTING GRADE AT THE LONGITUDINAL AND TRANSVERSE LIMITS OF THE STAGE. CONSTRUCTION AREAS UNLESS OTHERWISE NOTED ON THE STAGE CONSTRUCTION PLANS.
- THE PLACEMENT AND OR RELOCATION OF PRECAST CONCRETE CURB, CONSTRUCTION BARRIER SHALL BE DONE DURING APPROVED OFF-PEAK HOURS WHEN TRAFFIC MAY BE REDUCED TO ONE LANE IN EACH DIRECTION.
- CONSTRUCTION ZONE SPEED LIMIT WILL BE DETERMINED BY THE REGIONAL TRAFFIC ENGINEER AT THE TIME OF OR DURING CONSTRUCTION, AS REQUESTED BY THE RESIDENT ENGINEER.
- THE SPEED LIMIT, R2-1 (BLACK ON WHITE) SIGN SHALL BE LOCATED THROUGH WORK AREAS AS DIRECTED BY THE REGIONAL TRAFFIC ENGINEER.
- THE REDUCED SPEED AHEAD SIGN, R2-5A(S) (BLACK ON WHITE) SHALL BE LOCATED IN ADVANCE OF SPEED LIMIT R2-1 SIGNS WHICH REDUCE THE NORMAL POSTED SPEED LIMIT THROUGH THE CONSTRUCTION ZONE.
- TRAFFIC FINES DOUBLED IN WORK AREA R(N)5-17(S), 4 FEET BY 2.5 FEET SIGN SHALL BE LOCATED 500 FEET AFTER THE FIRST ADVANCE WARNING SIGN, (W20 SERIES) AT EACH WORK AREA LOCATED WITHIN URBAN AREAS. THIS SIGN SHALL ALSO BE USED ON PROJECTS REQUIRING MOVING OPERATIONS IN WHICH CASE THE SIGN SHALL BE MOUNTED ON A SLOW MOVING CONSTRUCTION VEHICLE.
- THE FINAL HOT MIX ASPHALT SURFACE PAVEMENT SHALL NOT BE CONSTRUCTED UNTIL THE FINAL STAGE OF THE PROJECT. MANHOLES AND INLETS SHALL BE SET TO FINISHED GRADE AND TEMPORARY PAVEMENT RAMP ARE TO BE CONSTRUCTED AROUND THEM WITH A MINIMUM 20H : 1V SLOPE IN ALL DIRECTIONS USING HOT MIX ASPHALT PAVEMENT. THIS TEMPORARY MATERIAL WILL BE REMOVED IMMEDIATELY PRIOR TO PLACING THE SURFACE COURSE.
- TRAFFIC CONTROL DEVICES FOR LANE CLOSURES INCLUDING SIGNS, CONES, BARRICADES, ETC. SHALL BE PLACED AS SHOWN ON PLANS. SIGNS SHALL NOT BE PLACED WITHOUT ACTUAL LANE CLOSURES AND SHALL BE IMMEDIATELY REMOVED UPON REMOVAL OF THE CLOSURES.
- CONES MAY BE SUBSTITUTED FOR DRUMS AND INSTALLED UPON THE APPROVAL OF THE ENGINEER.
- SEE SPECIFICATION SECTION 159 TRAFFIC CONTROL OF THE N.J.D.O.T. STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2019 (LATEST ADDENDUM) AND SPECIFICATION SECTION 320130 TRAFFIC CONTROL.

REGULATORY APPROACH SPEED OF TRAFFIC MILES/HOUR	RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS			RECOMMENDED SPACING ALONG TANGENTS	
	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	
25	10.5:1	105	115	25	50
30	15:1	150	165	30	60
35	20.5:1	205	225	35	70
40	27:1	270	300	40	80
45	45:1	450	495	45	90
50	50:1	500	550	50	100
55	55:1	550	605	55	110
60	60:1	600	660	60	120
65	65:1	650	715	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	

- NOTE:**
- AVOIDANCE MANEUVER IS FOR A SPEED, PATH, AND/OR DIRECTION CHANGE PRIOR TO THE BEGINNING OF CHANNELIZING TAPERS.
 - RECOMMENDED DISTANCES BETWEEN TWO SEPARATE LANE CLOSURES SHALL BE DOUBLE THE VALUES SHOWN ABOVE.
 - RURAL AND URBAN ROAD DESIGNATIONS SHALL BE AS DEFINED IN THE N.J.DOT STATE HIGHWAY STRAIGHT LINE DIAGRAMS.
 - 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.
 - TAPERS SHALL BE LOCATED TO MAXIMIZE THE VISIBILITY OF THEIR TOTAL LENGTH.

TRAFFIC CONTROL PLAN & DETAILS

DeBlasio & Associates
ENGINEERS, SURVEYORS AND PLANNERS

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Certification of Authorization No. 246A28284900

**FY2026 NJ WATER BANK
NO. 340258-04
VARIOUS SANITARY SEWER AND
WATER MAIN IMPROVEMENTS
CITY OF CAPE MAY
CAPE MAY COUNTY, NEW JERSEY**

Design: RFR Drawn: RFR Check: MAD Date: 03/23/2026

NO. DATE APPR. REVISION
No. GE41999
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