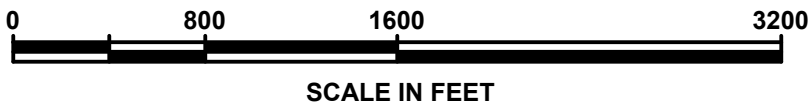
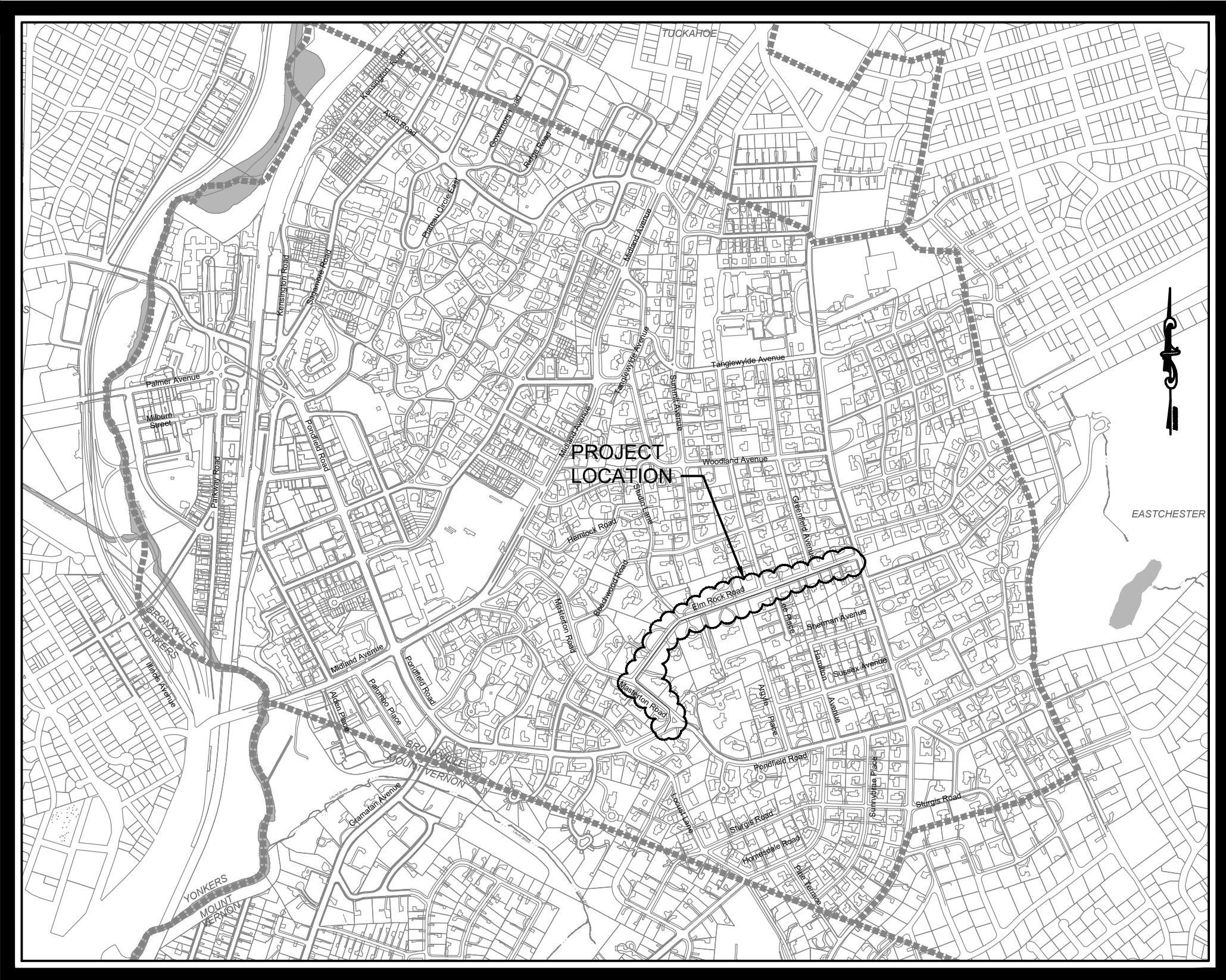


CONTRACT NO. VA 2022-06-2
ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD
DRAINAGE IMPROVEMENTS
VILLAGE OF BRONXVILLE
WESTCHESTER COUNTY, NEW YORK

GENERAL NOTES:

1. INFORMATION SHOWN OR NOTED IS APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING EXISTING GRADES, DRAINAGE PIPES, ROADWAYS, WALKWAYS, AND OTHER UTILITIES WHICH MAY AFFECT THE CONTRACT WORK.
2. CONTRACTOR SHALL FOLLOW OSHA SAFETY AND HEALTH STANDARDS (29 CFR1925/1910/1926, LATEST REVISIONS) AS WELL AS ALL STATE AND LOCAL REQUIREMENTS.
3. ALL DISTURBED AREAS AND GRADES SHALL BE RESTORED TO EXISTING CONDITIONS.
4. CONTRACTOR SHALL NOT ENCROACH UPON PRIVATE PROPERTY WITHOUT WRITTEN CONSENT OF THE PROPERTY OWNER. MATERIALS STORED WITHIN OR NEAR THE WORKSITE SHALL BE SO PLACED AS TO CAUSE MINIMAL OBSTRUCTION TO THE PUBLIC.
5. CONTRACTOR SHALL PROTECT TREES, SHRUBBERY, AND OTHER NATURAL FEATURES OR STRUCTURES.
6. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF ALL UTILITIES AND SHALL "MARK OUT" EACH UTILITY PRIOR TO PROCEEDING WITH ANY EXCAVATING OR SITE WORK. CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO ALL UTILITIES BY MEANS OF CODE 753.
7. CONTRACTOR SHALL ESTABLISH OR VERIFY DIMENSIONS OF EXISTING STRUCTURES, EQUIPMENT, AND THEIR LOCATIONS WITH THE REQUIRED ACCURACY WHERE NEEDED.
8. SUBMISSION OF THE CONTRACTOR'S BID IMPLIES THAT HE/SHE HAS EXAMINED THE EXISTING FACILITIES BY MEANS OF SITE INSPECTION AND OTHER MEANS, AND IS THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF THE WORK. ADDITIONAL COMPENSATION REQUESTS WILL NOT BE CONSIDERED BECAUSE OF THE CONTRACTOR'S FAILURE TO INFORM HIMSELF OF THE SITE CONDITIONS AND CONTRACT REQUIREMENTS.
9. ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE LOCAL CODES HAVING JURISDICTION OVER THE WORK.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED OR EXISTING WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS, PUBLIC, AND PERSONNEL. CONTRACTOR SHALL PROVIDE APPROPRIATE BARRIERS, AND SAFETY GUARDRAILS AS REQUIRED.
11. ANY DISRUPTION IN BUILDING SERVICES SHALL BE KEPT TO A MINIMUM AND SHALL NOT BE IMPLEMENTED WITHOUT RECEIVING PRIOR WRITTEN APPROVAL OF THE OWNER.
12. THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
13. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES.
14. ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER OR THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER OR OWNER AND FOUND TO BE DEFECTIVE OR OF POOR QUALITY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
15. ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE PROPERTIES.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL NEW WORK AND EQUIPMENT INSTALLED AND EXISTING WORK UNTIL FINAL ACCEPTANCE BY THE ENGINEER AND OWNER.
17. INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SHALL BE IN ACCORDANCE WITH WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES (BMP) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
18. ALL CONSTRUCTION ACTIVITIES FOR THE REMOVAL OF SEDIMENTS AND STORM WATER MANAGEMENT SHALL BE IN STRICT COMPLIANCE WITH THE PERMIT (GP-0-15-002) AND APPROVED STORM WATER POLLUTION PREVENTION PLAN (SWPPP).



LOCATION MAP
SCALE: 1" = 800 Feet

DRAWING LIST	
01	GENERAL NOTES, LOCATION MAP, AND DRAWING LIST
02A	OVERALL KEY MAP, BORING LOCATION MAP, AND QUANTITY TAKE OFF
02B	BORING LOGS
03A	DRAINAGE IMPROVEMENT PLAN - ELM ROCK ROAD - STA. 0+00 TO 4+00
03B	DRAINAGE IMPROVEMENT PROFILE - ELM ROCK ROAD - STA. 0+00 TO 4+00
04	DRAINAGE IMPROVEMENT PLAN AND PROFILE - ELM ROCK ROAD - STA. 4+00 TO 8+00
05	DRAINAGE IMPROVEMENT PLAN AND PROFILE - ELM ROCK ROAD - STA. 8+00 TO 12+00
06	DRAINAGE IMPROVEMENT PLAN AND PROFILE - ELM ROCK ROAD - STA. 12+00 TO 16+00
07	DRAINAGE IMPROVEMENT PLAN AND PROFILE - ELM ROCK ROAD - STA. 16+00 TO 17+65
08	DRAINAGE IMPROVEMENT PLAN AND PROFILE - MASTERTON ROAD - STA. 0+00 TO 5+00
09	CONSTRUCTION DETAILS
10	CONSTRUCTION DETAILS
11	SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS
12	TRAFFIC AND CONTROL PLANS - LOW VOLUME ROADS
13	TRAFFIC AND CONTROL PLANS - HIGH VOLUME ROADS

DOCUMENTS REVIEWED AND APPROVED BY
VILLAGE OF BRONXVILLE, NEW YORK.

JAMES M. PALMER, VILLAGE ADMINISTRATOR

MAYOR AND BOARD OF TRUSTEES

Mary C. Marvin, Mayor
Robert S. Underhill, Deputy Mayor
Helen Knapp, Trustee
William C. Fredericks, Trustee
Mary Taylor Behrens, Trustee

James M. Palmer, Village Administrator
Victor J. Lema, General Foreman

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PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2 ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			GENERAL NOTES, LOCATION MAP, AND DRAWING LIST			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	01	

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REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2			
			ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			BORING LOGS			
drawn by		checked by	project no.	date	scale	drawing no.
AL/MM		GB/AJ	430H	11/16/23	AS SHOWN	02B

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LOG OF BORING NO. B-4

Sheet 1 of 1

PROJECT: Village of Bronxville Drainage Improvements - Elm Rock Road
PROJECT NO.: 3423000048
PROJECT LOCATION: Bronxville, New York
WATER LEVEL (ft): 1031/23
DATE: 10/31/23
NORTHING:
EASTING:
DATE STARTED: 10/31/2023
DATE COMPLETED: 10/31/2023
DRILLING CONTRACTOR: D.K. Drilling of New York, Inc.
DRILLER: Dorbal
DRILLING METHOD: Continuous
SAMPLING METHOD: SPT
HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 165.0 +/-
DATUM: TOPO
EQUIPMENT: CME 45
LOGGED BY: BG
CHECKED BY: RD

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOW/SE INCHES	SFT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	12	17-20-24-12	44	155.0 154.9	0 1	FILL		5" Asphalt	
S-2	2.0	22	7-6-10-18	16	153.0	2	SM		FILL: Dark-gray, moist, medium dense, silty sand with gravel and asphalt fragments	
S-3	4.0	18	22-26-24-24	50		3			Brown, moist, medium dense, Silty SAND with trace Gravel	
S-4	6.0	14	18-18-19-18	37		4			-same, more Gravel	residual soil
S-5	8.0	16	15-13-22-17	35		5			-same	
						6			-same, very moist	
						7				
						8				
						9				
						10				
					145.0				Boring complete at 10 ft.	

NOTES: BOC = Backfilled on completion
GEO-TECHNOLOGY ASSOCIATES, INC.
211-K Gates Road
Little Ferry, NJ 07643
LOG OF BORING NO. B-4
Sheet 1 of 1

LOG OF BORING NO. B-3

Sheet 1 of 1

PROJECT: Village of Bronxville Drainage Improvements - Elm Rock Road
PROJECT NO.: 3423000048
PROJECT LOCATION: Bronxville, New York
WATER LEVEL (ft): 1031/23
DATE: 10/31/23
NORTHING:
EASTING:
DATE STARTED: 10/31/2023
DATE COMPLETED: 10/31/2023
DRILLING CONTRACTOR: D.K. Drilling of New York, Inc.
DRILLER: Dorbal
DRILLING METHOD: Continuous
SAMPLING METHOD: SPT
HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 187.0 +/-
DATUM: TOPO
EQUIPMENT: CME 45
LOGGED BY: BG
CHECKED BY: RD

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOW/SE INCHES	SFT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	20	9-11-9-16	20	187.0 186.6	0 1	FILL		5" Asphalt	
S-2	2.0	8	24-50/2"	50+	185.0 184.3	2	HW		FILL: Dark-gray, moist, medium dense, silty sand with gravel and asphalt fragments	
									Highly weathered ROCK	
									Boring complete at 2.7 ft.	

NOTES: BOC = Backfilled on completion
GEO-TECHNOLOGY ASSOCIATES, INC.
211-K Gates Road
Little Ferry, NJ 07643
LOG OF BORING NO. B-3
Sheet 1 of 1

LOG OF BORING NO. B-2

Sheet 1 of 1

PROJECT: Village of Bronxville Drainage Improvements - Elm Rock Road
PROJECT NO.: 3423000048
PROJECT LOCATION: Bronxville, New York
WATER LEVEL (ft): 1031/23
DATE: 10/31/23
NORTHING:
EASTING:
DATE STARTED: 10/31/2023
DATE COMPLETED: 10/31/2023
DRILLING CONTRACTOR: D.K. Drilling of New York, Inc.
DRILLER: Dorbal
DRILLING METHOD: Continuous
SAMPLING METHOD: SPT
HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 201.0 +/-
DATUM: TOPO
EQUIPMENT: CME 45
LOGGED BY: BG
CHECKED BY: RD

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOW/SE INCHES	SFT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	14	10-16-24-26	40	201.0 200.9 200.0	0 1	FILL		5" Asphalt	
S-2	2.0	10	16-29-24-33	53		2	HW		Dark-gray, moist, medium dense, silty sand with gravel and asphalt fragments	
S-3	4.0	2	50/2"	50+	196.8	3			Highly weathered ROCK	
						4			-same	
									Boring complete at 4.2 ft.	

NOTES: BOC = Backfilled on completion
GEO-TECHNOLOGY ASSOCIATES, INC.
211-K Gates Road
Little Ferry, NJ 07643
LOG OF BORING NO. B-2
Sheet 1 of 1

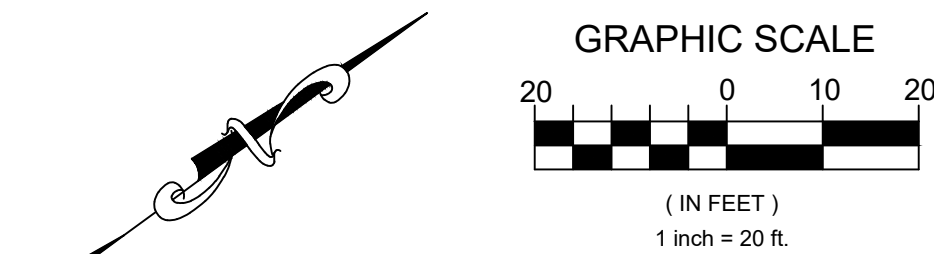
LOG OF BORING NO. B-1

Sheet 1 of 1

PROJECT: Village of Bronxville Drainage Improvements - Elm Rock Road
PROJECT NO.: 3423000048
PROJECT LOCATION: Bronxville, New York
WATER LEVEL (ft): 1031/23
DATE: 10/31/23
NORTHING:
EASTING:
DATE STARTED: 10/31/2023
DATE COMPLETED: 10/31/2023
DRILLING CONTRACTOR: D.K. Drilling of New York, Inc.
DRILLER: Dorbal
DRILLING METHOD: Continuous
SAMPLING METHOD: SPT
HAMMER TYPE: Automatic
GROUND SURFACE ELEVATION: 198.0 +/-
DATUM: TOPO
EQUIPMENT: CME 45
LOGGED BY: BG
CHECKED BY: RD

SAMPLE NUMBER	SAMPLE DEPTH (ft.)	SAMPLE RECOVERY (in.)	SAMPLE BLOW/SE INCHES	SFT-N VALUE	ELEVATION (ft.)	DEPTH (ft.)	STRATA	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
S-1	0.0	15	16-9-5-4	14	198.0 197.6	0 1	FILL		5" Asphalt	
S-2	2.0	12	3-5-5-4	10	196.0	2	SM		FILL: Dark gray, moist, medium dense, silty sand with trace gravel and debris	
S-3	4.0	16	5-6-6-4	12		3			Brown, moist, medium dense, Silty SAND with trace Gravel	
S-4	6.0	10	7-6-7-8	13		4			-same, gray-brown	
S-5	8.0	20	9-7-15-15	22		5			-same, brown, more Gravel	residual soil
S-6	10.0	14	23-52-50/3"	102+	187.5 186.7	10 11	HW		-same	
									Highly weathered ROCK	
									Boring complete at 11.3 ft.	

NOTES: BOC = Backfilled on completion
GEO-TECHNOLOGY ASSOCIATES, INC.
211-K Gates Road
Little Ferry, NJ 07643
LOG OF BORING NO. B-1
Sheet 1 of 1



LEGEND (EXISTING)	
⊗ ⊙ ⊕ ⊖ ⊕ ⊖	MANHOLES
 □ ○	DRAIN INLETS/INLETS
 □ GB	GAS VALVE/GAS BOX
 WV	WATER VALVE
	HYDRANT
	WATER SHUT OFF VALVE
	UTILITY POLE
	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL

LEGEND (EXISTING)					
— W —	— W —	— W —	— W —	— W —	WATER MAIN
— D —	— D —	— D —	— D —	— D —	DRAINAGE PIPE
— G —	— G —	— G —	— G —	— G —	GAS MAIN
— S —	— S —	— S —	— S —	— S —	SANITARY SEWER MAIN
— E —	— E —	— E —	— E —	— E —	ELECTRICAL LINE
— OHW —	— OHW —	— OHW —	— OHW —	— OHW —	OVERHEAD WIRES

NOTES:

1. ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
2. ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
3. ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
4. ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
5. ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
6. STANDARD CATCH BASINS SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42"x48"x48" DEEP) MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
7. ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
8. ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
9. CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
10. WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

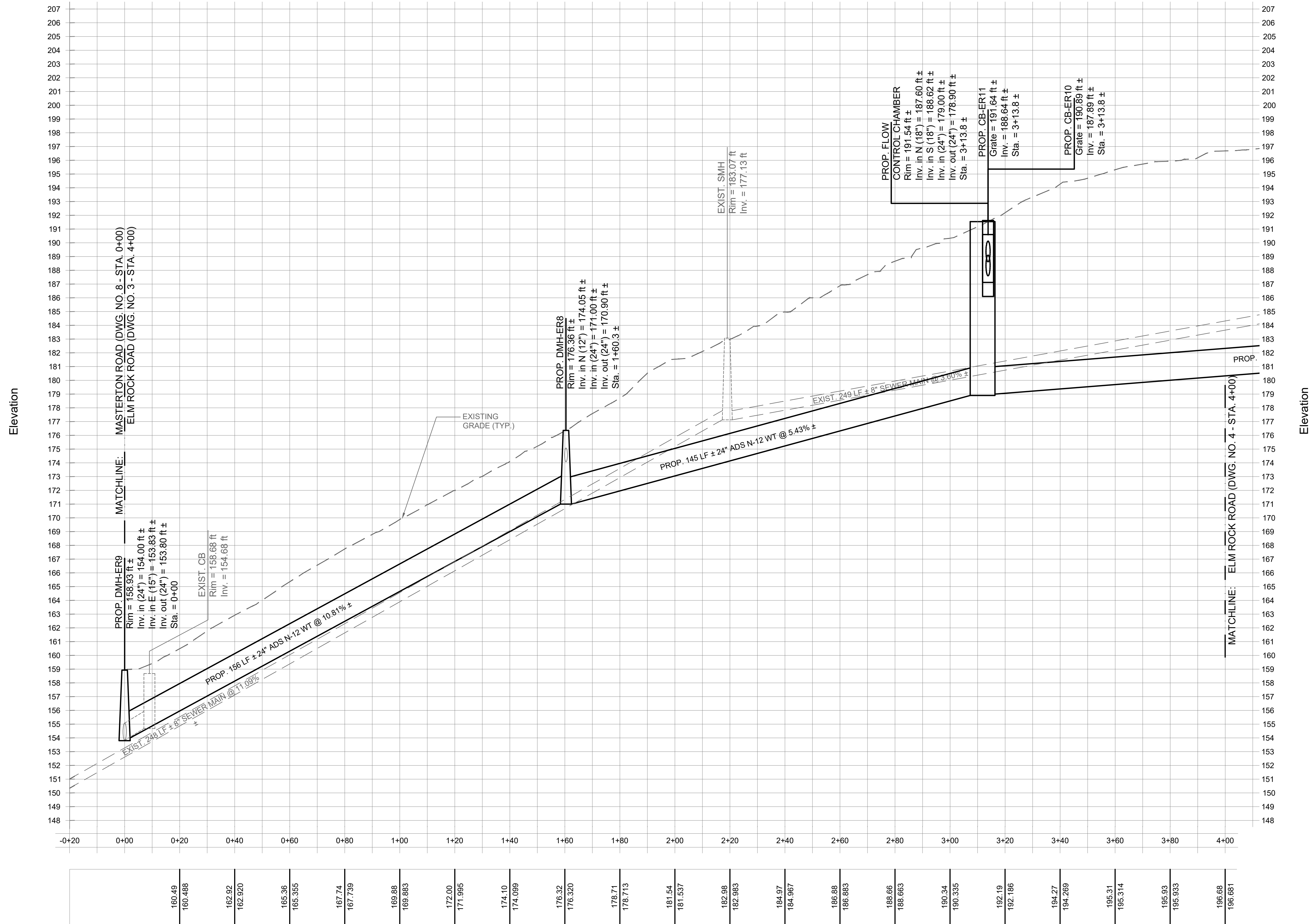
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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.		DATE		DESCRIPTION		project name	
						VILLAGE OF BRONXVILLE	
						WESTCHESTER COUNTY, NEW YORK	
						CONTRACT NO. VA 2022-06-2	
						ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS	
						DRAINAGE IMPROVEMENT PLAN	
						ELM ROCK ROAD - STA. 0+00 TO 4+00	
drawn by		checked by		project no.		date	
AL/MM		GB/AJ		430H		11/16/23	
						scale	
						AS SHOWN	
						drawing no.	
						03A	



- NOTES:
1. ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 2. ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 3. ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
 4. ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
 5. ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
 6. STANDARD CATCH BASINS SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42"X48"X48" DEEP) MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
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 10. WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"

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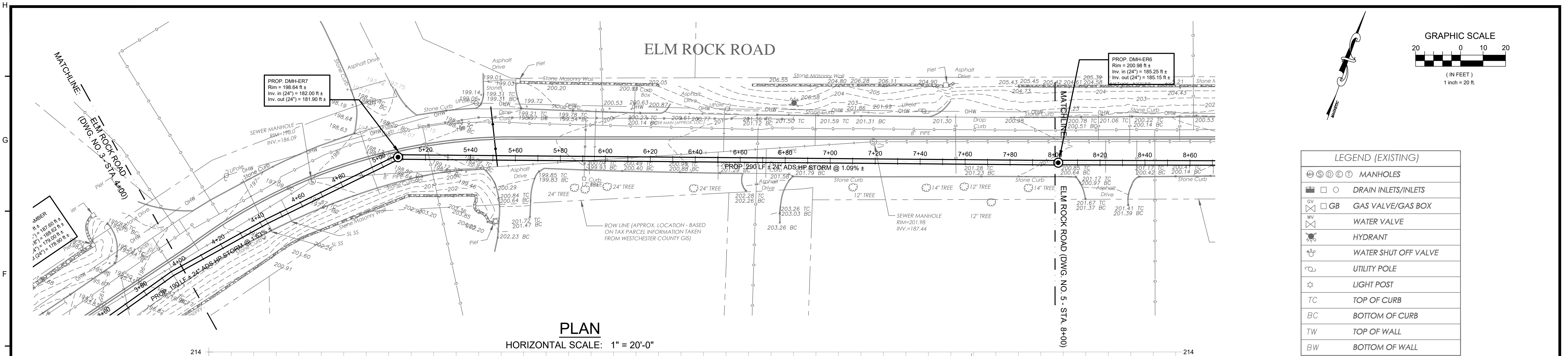
UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITS LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769-8003

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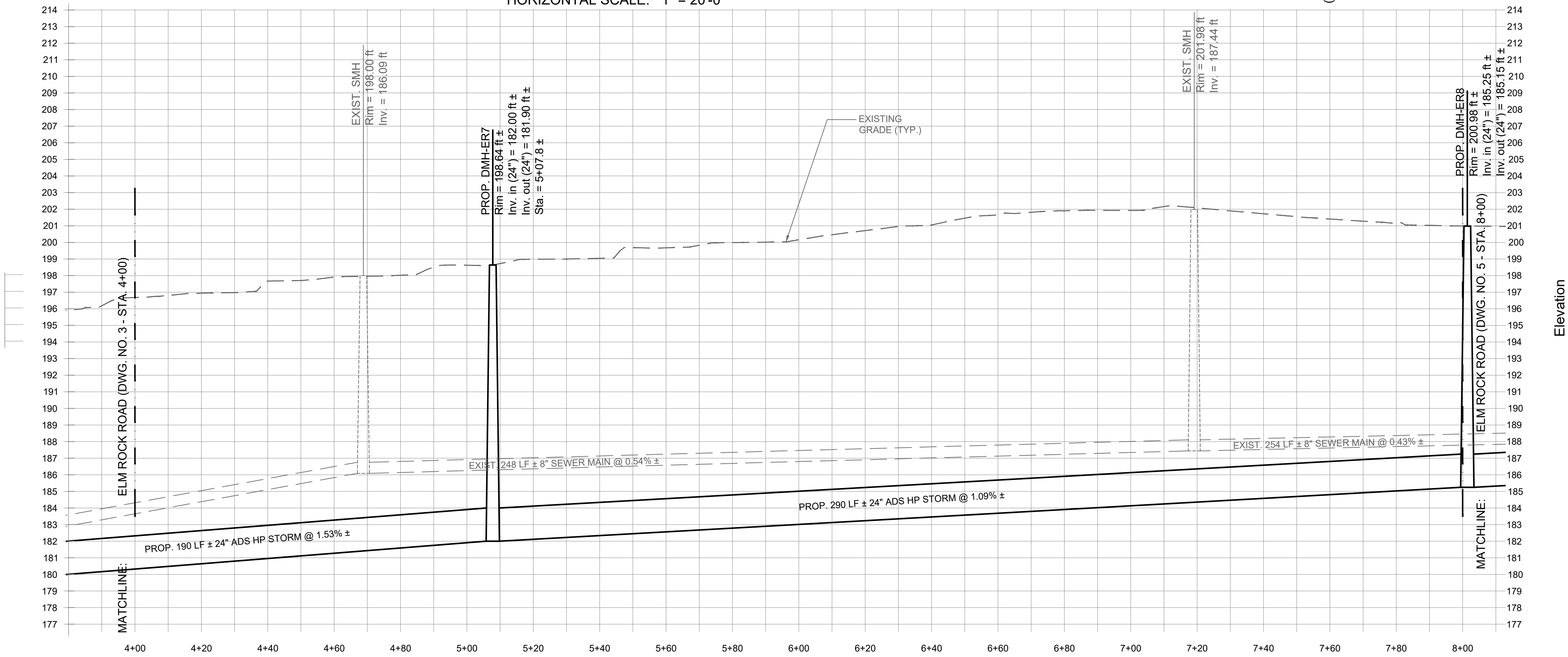
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			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2			
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			DRAINAGE IMPROVEMENT PROFILE			
			ELM ROCK ROAD - STA. 0+00 TO 4+00			
drawn by		checked by	project no.	date	scale	drawing no.
AL/MM		GB/AJ	430H	11/16/23	AS SHOWN	03B



PLAN
HORIZONTAL SCALE: 1" = 20'-0"



PROFILE
HORIZONTAL SCALE: 1" = 20'-0"
VERTICAL SCALE: 1" = 4'-0"

LEGEND (EXISTING)	
MANHOLES	
DRAIN INLETS/INLETS	
GAS VALVE/GAS BOX	
WATER VALVE	
HYDRANT	
WATER SHUT OFF VALVE	
UTILITY POLE	
LIGHT POST	
TOP OF CURB	
BOTTOM OF CURB	
TOP OF WALL	
BOTTOM OF WALL	

LEGEND (EXISTING)	
WATER MAIN	
DRAINAGE PIPE	
GAS MAIN	
SANITARY SEWER MAIN	
ELECTRICAL LINE	
OVERHEAD WIRES	

- NOTES:
- ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 - ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 - ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
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 - ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 - ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
 - CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
 - WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

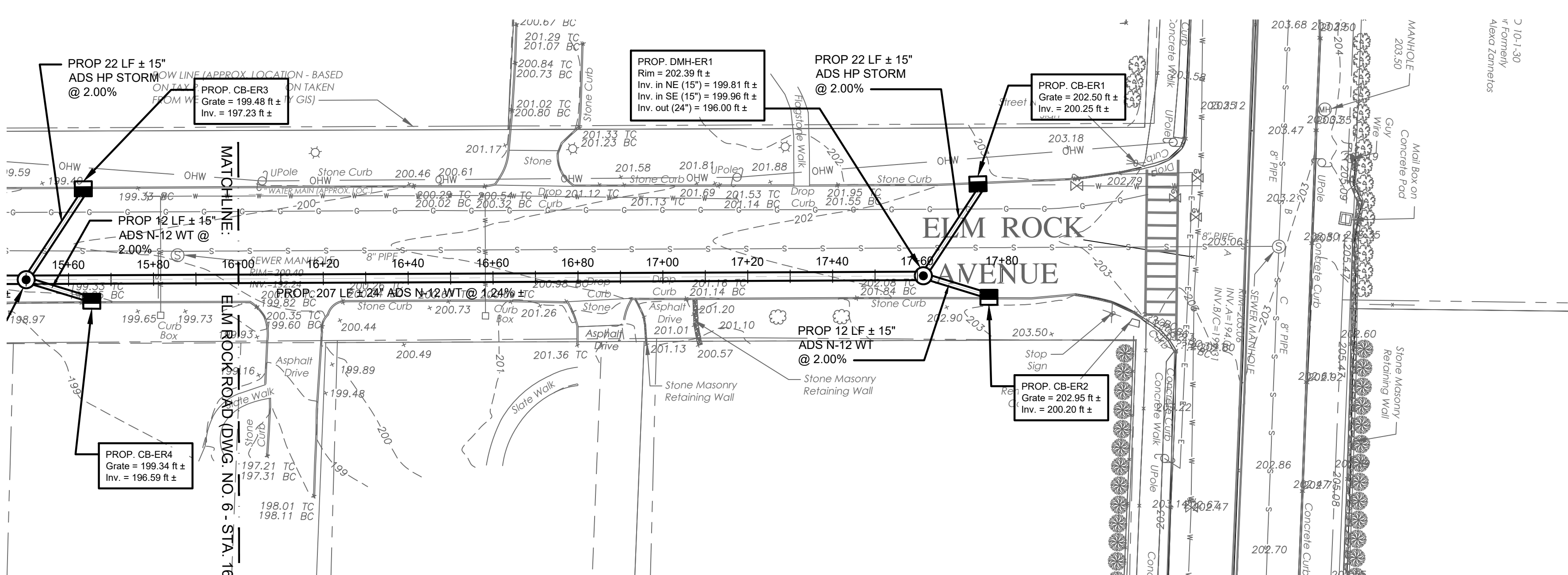
ARSHAD JALIL, P.E., BCEE
N.Y. PROFESSIONAL ENGINEER LICENSE No. 071536

PCI PROFESSIONAL CONSULTING, LLC.
OCTAGON 10 OFFICE CENTER
1719 ROUTE 10 SUITE 225
PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

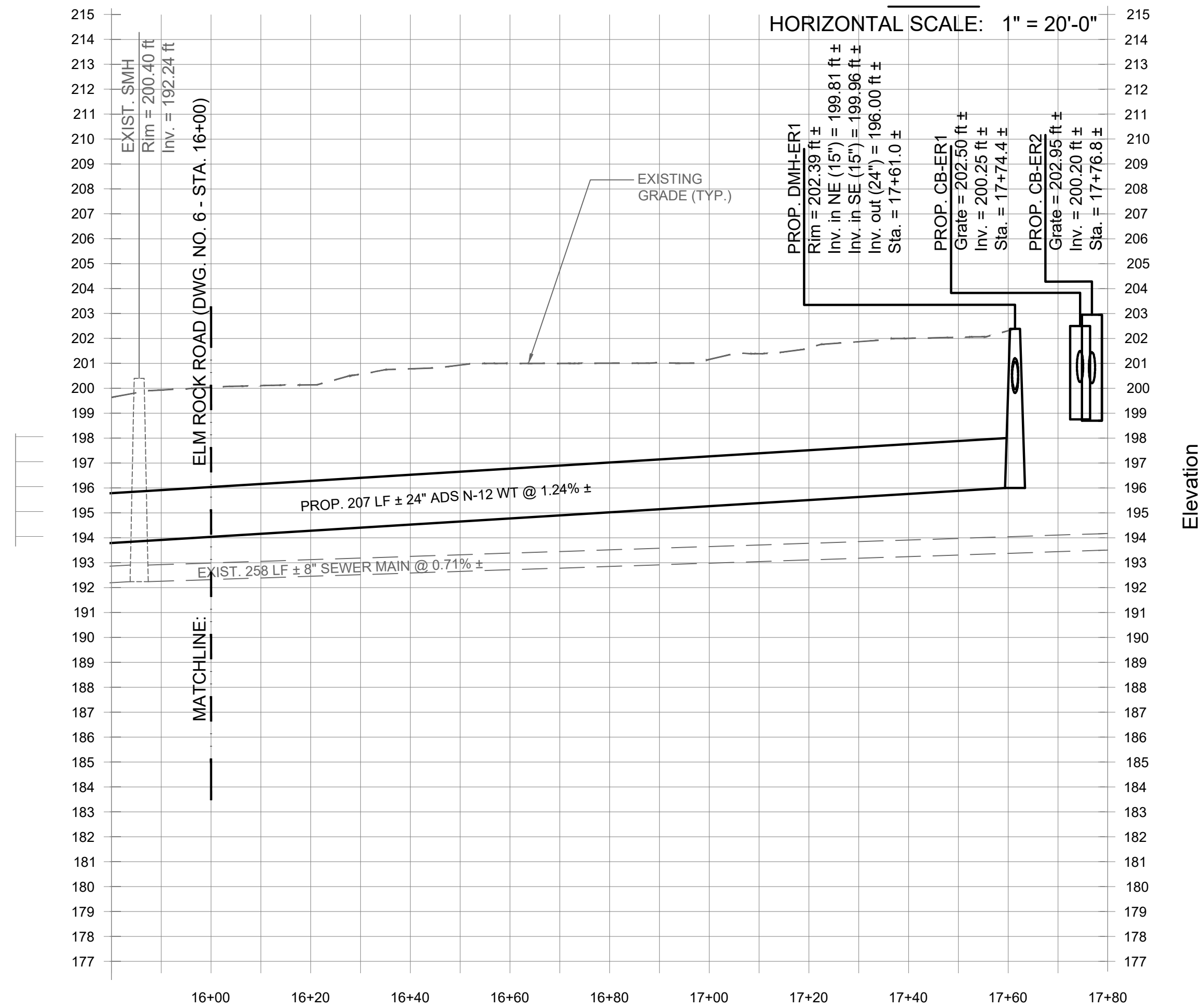
REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2			
			ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN AND PROFILE			
			ELM ROCK ROAD - STA. 4+00 TO 8+00			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	04	

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D
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PLAN

HORIZONTAL SCALE: 1" = 20'-0"



PROFILE

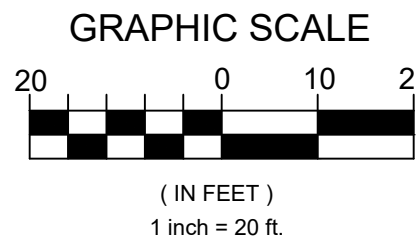
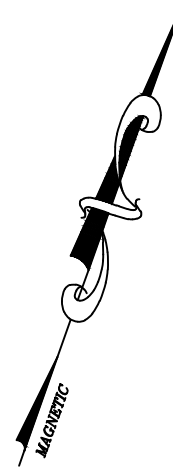
HORIZONTAL SCALE: 1" = 20'-0"

VERTICAL SCALE: 1" = 4'-0"

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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)



LEGEND (EXISTING)	
⊕ ⊙ ⊗ ⊕ ⊕	MANHOLES
⊕ ⊙ ⊗	DRAIN INLETS/INLETS
⊕ ⊙ ⊗	GAS VALVE/GAS BOX
⊕ ⊙ ⊗	WATER VALVE
⊕ ⊙ ⊗	HYDRANT
⊕ ⊙ ⊗	WATER SHUT OFF VALVE
⊕ ⊙ ⊗	UTILITY POLE
⊕ ⊙ ⊗	LIGHT POST
TC	TOP OF CURB
BC	BOTTOM OF CURB
TW	TOP OF WALL
BW	BOTTOM OF WALL

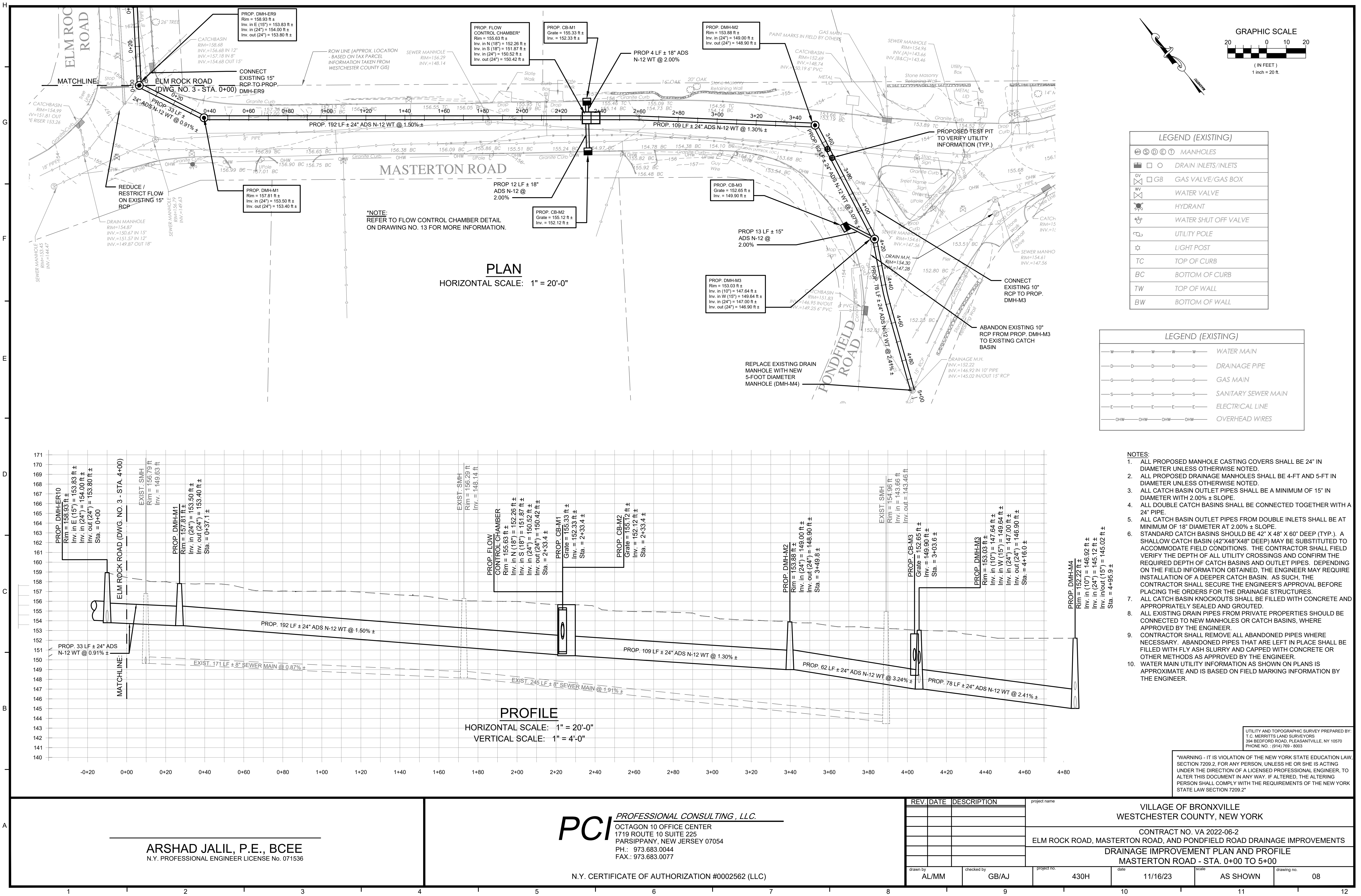
LEGEND (EXISTING)	
— W — W — W — W — W —	WATER MAIN
— D — D — D — D — D —	DRAINAGE PIPE
— G — G — G — G — G —	GAS MAIN
— S — S — S — S — S —	SANITARY SEWER MAIN
— E — E — E — E — E —	ELECTRICAL LINE
— OHW — OHW — OHW — OHW —	OVERHEAD WIRES

- NOTES:
- ALL PROPOSED MANHOLE CASTING COVERS SHALL BE 24" IN DIAMETER UNLESS OTHERWISE NOTED.
 - ALL PROPOSED DRAINAGE MANHOLES SHALL BE 4-FT AND 5-FT IN DIAMETER UNLESS OTHERWISE NOTED.
 - ALL CATCH BASIN OUTLET PIPES SHALL BE A MINIMUM OF 15" IN DIAMETER WITH 2.00% ± SLOPE.
 - ALL DOUBLE CATCH BASINS SHALL BE CONNECTED TOGETHER WITH A 24" PIPE.
 - ALL CATCH BASIN OUTLET PIPES FROM DOUBLE INLETS SHALL BE AT MINIMUM OF 18" DIAMETER AT 2.00% ± SLOPE.
 - STANDARD CATCH BASINS SHOULD BE 42" X 48" X 60" DEEP (TYP.). A SHALLOW CATCH BASIN (42"X48"X48" DEEP) MAY BE SUBSTITUTED TO ACCOMMODATE FIELD CONDITIONS. THE CONTRACTOR SHALL FIELD VERIFY THE DEPTH OF ALL UTILITY CROSSINGS AND CONFIRM THE REQUIRED DEPTH OF CATCH BASINS AND OUTLET PIPES. DEPENDING ON THE FIELD INFORMATION OBTAINED, THE ENGINEER MAY REQUIRE INSTALLATION OF A DEEPER CATCH BASIN. AS SUCH, THE CONTRACTOR SHALL SECURE THE ENGINEER'S APPROVAL BEFORE PLACING THE ORDERS FOR THE DRAINAGE STRUCTURES.
 - ALL CATCH BASIN KNOCKOUTS SHALL BE FILLED WITH CONCRETE AND APPROPRIATELY SEALED AND GROUTED.
 - ALL EXISTING DRAIN PIPES FROM PRIVATE PROPERTIES SHOULD BE CONNECTED TO NEW MANHOLES OR CATCH BASINS, WHERE APPROVED BY THE ENGINEER.
 - CONTRACTOR SHALL REMOVE ALL ABANDONED PIPES WHERE NECESSARY. ABANDONED PIPES THAT ARE LEFT IN PLACE SHALL BE FILLED WITH FLY ASH SLURRY AND CAPPED WITH CONCRETE OR OTHER METHODS AS APPROVED BY THE ENGINEER.
 - WATER MAIN UTILITY INFORMATION AS SHOWN ON PLANS IS APPROXIMATE AND IS BASED ON FIELD MARKING INFORMATION BY THE ENGINEER.

UTILITY AND TOPOGRAPHIC SURVEY PREPARED BY:
T.C. MERRITT'S LAND SURVEYORS
394 BEDFORD ROAD, PLEASANTVILLE, NY 10570
PHONE NO.: (914) 769 - 8003

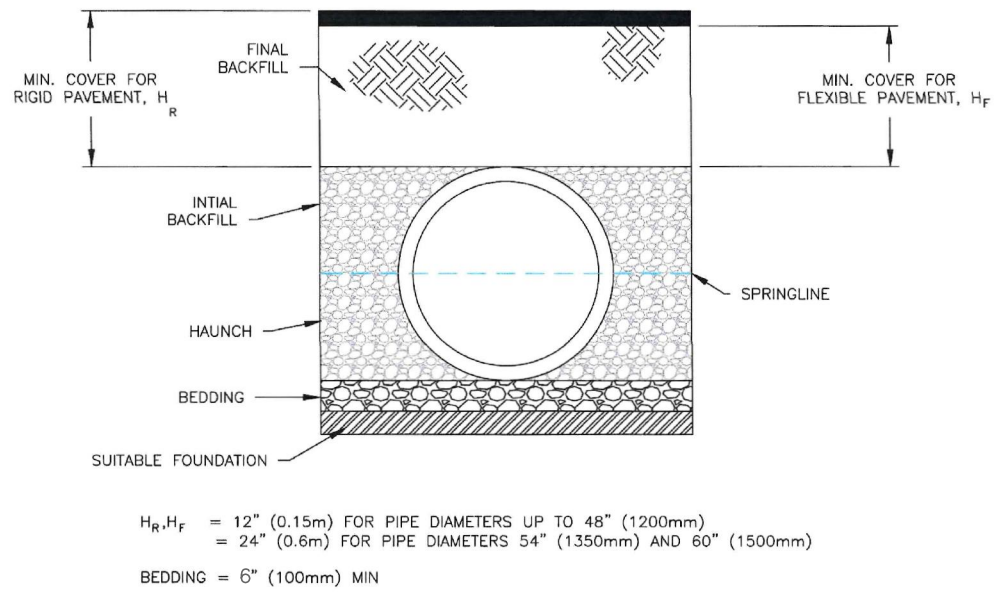
"WARNING - IT IS VIOLATION OF THE NEW YORK STATE EDUCATION LAW, SECTION 7209.2, FOR ANY PERSON, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT IN ANY WAY. IF ALTERED, THE ALTERING PERSON SHALL COMPLY WITH THE REQUIREMENTS OF THE NEW YORK STATE LAW SECTION 7209.2"

REV.	DATE	DESCRIPTION	project name			
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			ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			DRAINAGE IMPROVEMENT PLAN AND PROFILE			
			ELM ROCK ROAD - STA. 16+00 TO 17+80			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	07	



H

Typical Backfill Structure



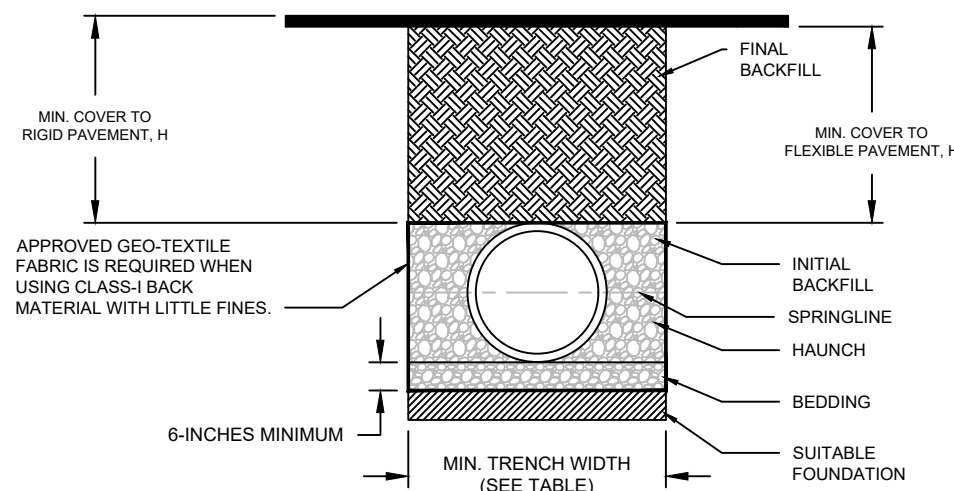
$H_r, H_f = 12"$ (0.15m) for PIPE DIAMETERS UP TO 48" (1200mm)
 $= 24"$ (0.6m) for PIPE DIAMETERS 54" (1350mm) AND 60" (1500mm)
BEDDING = 6" (100mm) MIN

FILL AS SPECIFIED BY DESIGN ENGINEER
STRUCTURAL BACKFILL (SEE NOTE)

STRUCTURAL BACKFILL
SEE INSTALLATION REQUIREMENTS / HANDBOOK, TABLE A-5, OR APPENDIX A-5 FOR MATERIAL AND COMPACTION REQUIREMENTS BASED ON PIPE MATERIAL AND APPLICATION.

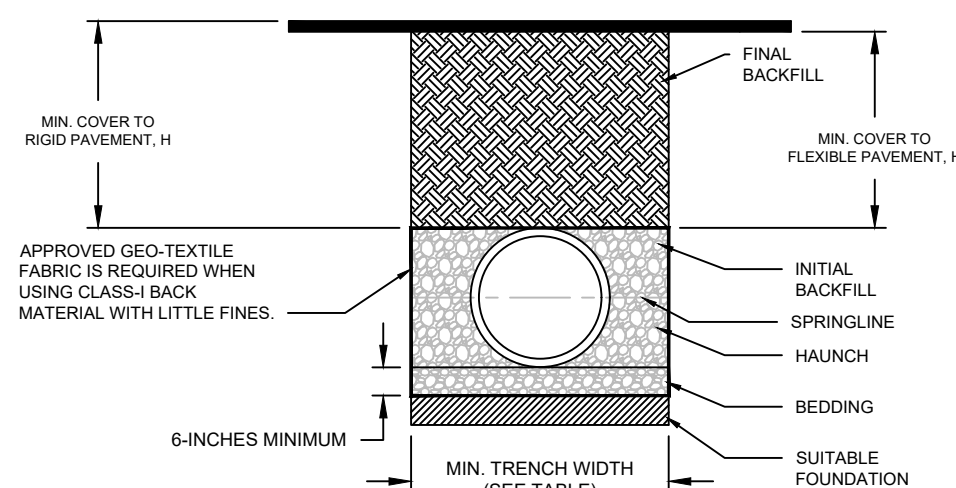
- NOTES:
- TRENCH WIDTH FOR PIPES 24" AND SMALLER DIAMETER SHALL BE PIPE OD PLUS 12" ON BOTH SIDES OF THE PIPE.
 - TRENCH WIDTH FOR PIPES 36" DIAMETER SHALL BE 64" MIN.
 - INITIAL BACKFILL BELOW THE SPRING LINE SHALL BE ADEQUATELY PACKED IN THE HAUNCH AREA. ALL INITIAL BACKFILL AROUND THE PIPE SHALL BE COMPACTED IN 4-INCH LIFTS AND SHALL BE FIELD PROCTOR DENSITY TESTED.
 - BACKFILL AROUND THE PIPE SHALL BE COMPACTED AND APPROVED CLASS I MATERIAL. THE FINAL BACKFILL SHALL BE TESTED AND COMPACTED IN 12" LIFTS.
 - APPROVED CLASS BACKFILL MATERIAL SHOULD INCLUDE LITTLE TO NO FINES. SIEVE SIZE 30" AND 420 PERCENT PASSING SHOULD BE <25% AND <12.5% WHERE % PASSING FINES ARE GREATER. THE USE OF AN APPROVED GEOTEXTILE FABRIC WILL BE REQUIRED TO PREVENT FINES MIGRATION.
 - STORM SEWER PIPE SHALL BE HANDED AND INSTALLED PER ADS PIPE INSTALLATION REQUIREMENTS, INCLUDING CLASS I COMPACTION BACKFILL, MANHOLE AND CATCH BASIN CONNECTIONS, TESTING, AND REPAIRS.

ADS HP Storm Pipe Trench Detail with Uniform Backfill
(Traffic and Non-Traffic Applications)



- NOTES:
- HP STORM PIPE SHALL BE USED WHERE PIPE COVER (H) IS LESS THAN 18-INCHES AND MORE THAN 10-FEET.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND ADS RECOMMENDED INSTALLATION GUIDELINES.
 - APPROVED CLASS BACKFILL MATERIAL SHOULD INCLUDE LITTLE TO NO FINES. SIEVE SIZE 30" AND 420 PERCENT PASSING SHOULD BE <25% AND <12.5% WHERE % PASSING FINES ARE GREATER. AN APPROVED GEOTEXTILE FABRIC WILL BE REQUIRED TO PREVENT FINES MIGRATION.

ADS N-12", N-12 ST, and N-12 WT (per AASHTO) Trench
Detail Under Pavement



- NOTES:
- ADS N-12 WT SHALL BE USED WHERE PIPE COVER (H) IS MORE THAN 18-INCHES AND LESS THAN 10-FEET.
 - INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321 AND ADS RECOMMENDED INSTALLATION GUIDELINES.
 - APPROVED CLASS BACKFILL MATERIAL SHOULD INCLUDE LITTLE TO NO FINES. SIEVE SIZE 30" AND 420 PERCENT PASSING SHOULD BE <25% AND <12.5% WHERE % PASSING FINES ARE GREATER. AN APPROVED GEOTEXTILE FABRIC WILL BE REQUIRED TO PREVENT FINES MIGRATION.

FILL HEIGHT TABLE GENERATED USING AASHTO SECTION 12.
LOAD RESISTANCE FACTOR DESIGN (LRFD) PROCEDURE WITH
THE FOLLOWING ASSUMPTIONS:
NO HYDROSTATIC PRESSURE
UNIT WEIGHT OF SOIL (Ys) = 120 PCF

TRENCH INSTALLATION DETAILS
(ADS PIPE)

N.T.S.

ADS N-12® WT / HP STORM PIPE (ASTM F2648) SPECIFICATION

Scope
This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 WT / HP STORM pipe or approved eq (per ASTM F2648). The 12-inch N-12 pipe shall be used where pipe cover is required to avoid utility conflicts, where shown and as approved by the owner.

- Pipe Requirements**
ADS N-12 WT / HP STORM pipe (per ASTM F2648) shall have a smooth interior and annular exterior corrugations
- 4- through 60-inch (100 to 1500 mm) pipe shall meet ASTM F2648.
 - Manning's "n" value for use in design shall be 0.012.

Joint Performance
Pipe shall be joined using a bell & spigot joint meeting ASTM F2648. The joint shall be soil-tight and gaskets for diameters 12- through 60-inch, shall meet the requirements of ASTM F477. For diameters 4- through 10-inch, the joint shall be soil-tight using an engaging binder connection. Gaskets shall be installed by the pipe manufacturer and covered with a removable, protective wrap to ensure the gasket is free from debris. A joint lubricant available from the manufacturer shall be used on the gasket and bell during assembly.

Fittings
Fittings shall conform to ASTM F2306. Bell and spigot connections shall utilize a welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of ASTM F2306. ADS adaptor fittings shall be used to install N12 pipe connections to precast catch basins and manholes.

Installation
Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot, (0.3 m) and for 60-inch (1500 mm) diameter the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted) or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level.

Pipe Dimensions

Pipe I.D. in (mm)	4 (102)	6 (152)	8 (203)	10 (254)	12 (305)	15 (381)	18 (457)	24 (609)	30 (762)	36 (914)	42 (1067)	48 (1219)	60 (1524)
Pipe O.D. in (mm)	4.8 (122)	6.9 (175)	8.1 (205)	11.4 (290)	14.5 (368)	18 (457)	22 (559)	28 (711)	36 (914)	42 (1067)	48 (1219)	54 (1372)	67 (1702)

*Pipe O.D. values are provided for reference purposes only; values stated for 12 through 60-inch are at inch.

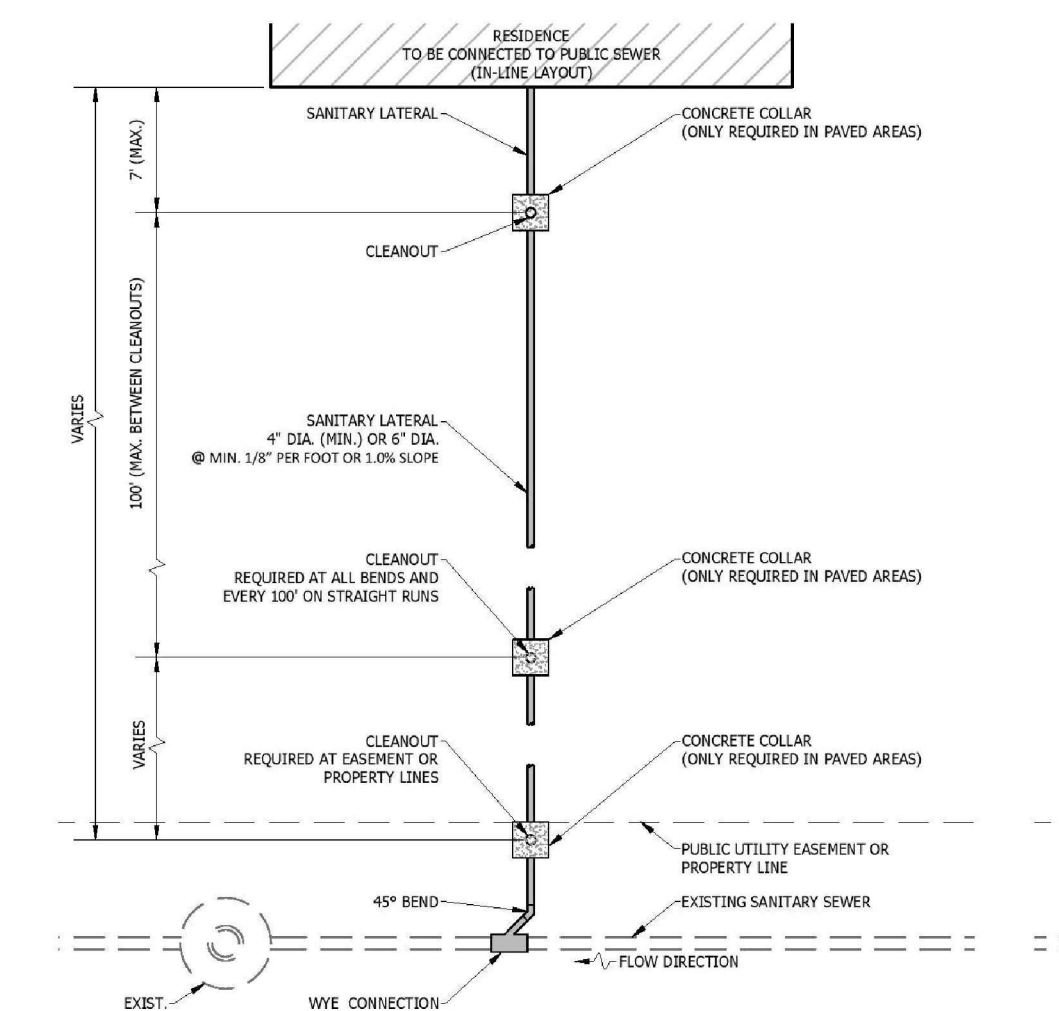
ADS - N12 WT / HP STORM PIPE DETAILS

N.T.S.

ADS - N12 PIPE ADAPTER FITTING DETAILS

N.T.S.

TYPICAL SANITARY SEWER CONNECTION DETAIL
N.T.S.

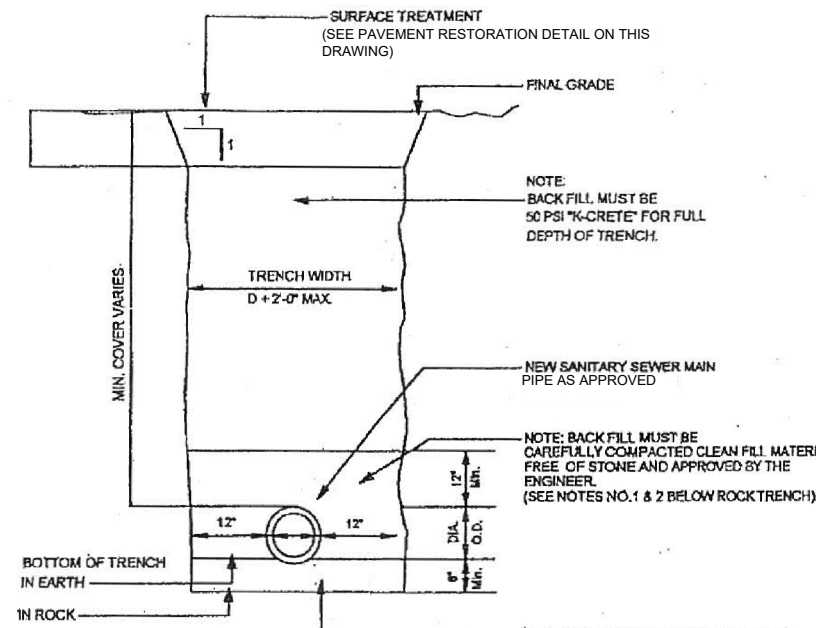


LATERAL SANITARY SEWER
CONNECTION LAYOUT (RESIDENTIAL)

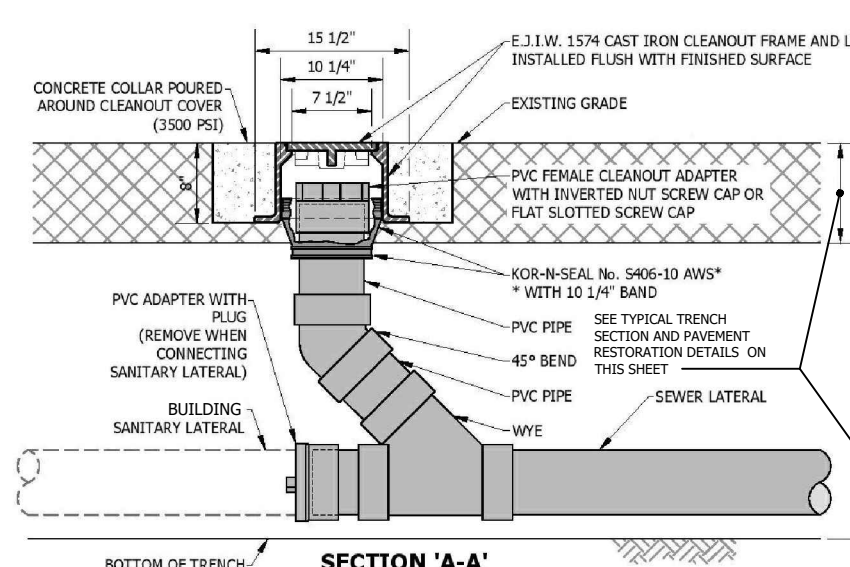
N.T.S.

LATERAL SANITARY SEWER
CONNECTION LAYOUT (COMMERCIAL)

N.T.S.

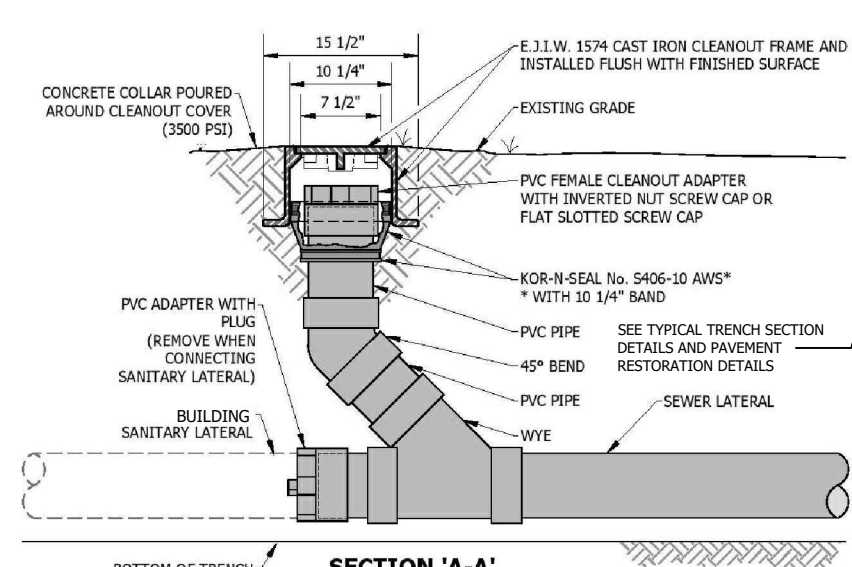


SANITARY SEWER TRENCH DETAIL
N.T.S.



STANDARD SANITARY CLEANOUT
IN PAVED AREAS

N.T.S.

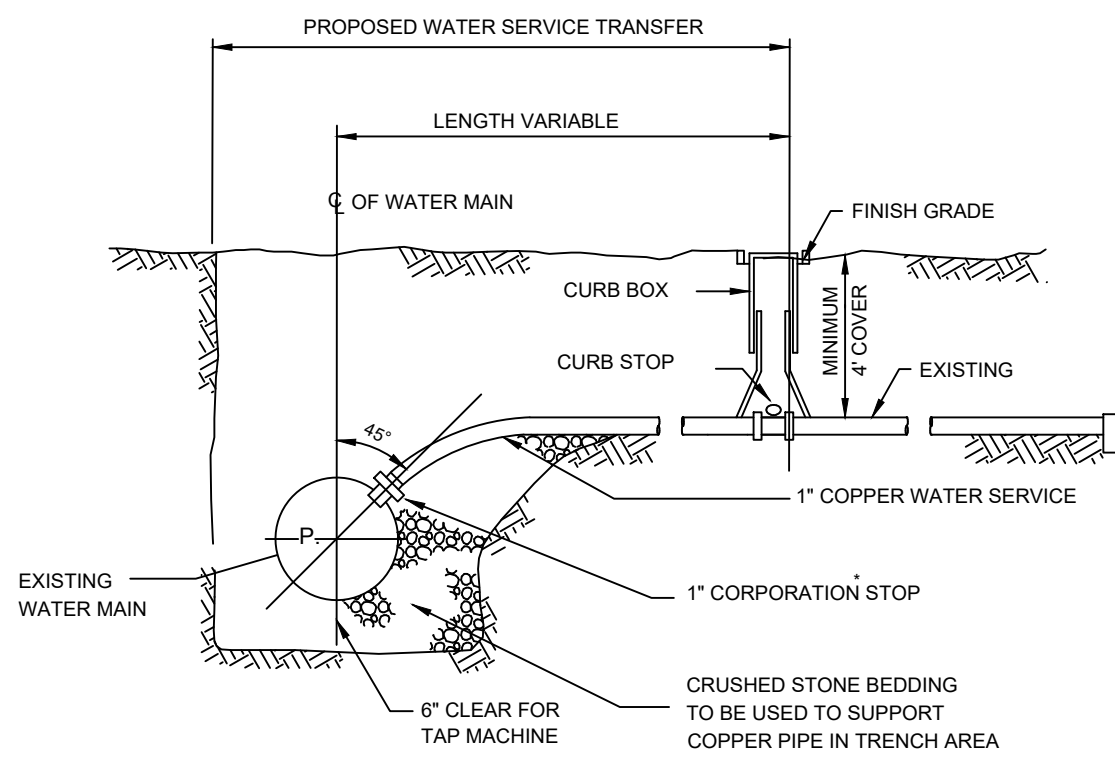


STANDARD SANITARY CLEANOUT
IN UNPAVED AREAS

N.T.S.

PAVEMENT RESTORATION DETAIL

N.T.S.



- NOTES:
- WHERE POSSIBLE, CONTRACTOR SHALL CONNECT EXISTING SERVICE INTO THE CURB STOP. WHERE NOT POSSIBLE THE CONTRACTOR SHALL CONNECT AFTER THE CURB STOP WITH A UNION ON COUPLING PENDING ON THE SITE CONDITION.
 - CURB STOP AND CORPORATION STOP SHALL BE MANUFACTURED BY MUELLER OR APPROVAL EQUAL.
 - CURB STOP TO BE LOCATED AT THE PROPERTY LINE.
 - NO SERVICE CONNECTION WORK WILL BE PERFORMED INSIDE HOME OWNERS PROPERTY.

NEW OR TRANSFERRED WATER SERVICE CONNECTION
N.T.S.

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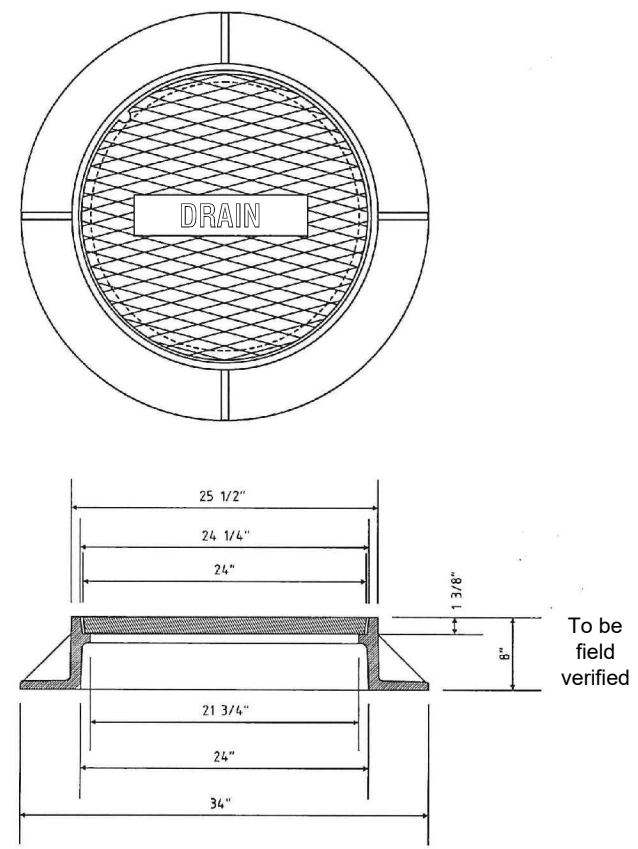
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PH.: 973.683.0044
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N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK
			CONTRACT NO. VA 2022-06-2 ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS
			CONSTRUCTION DETAILS
drawn by	checked by	project no.	date
AL/MM	GB/AJ	430H	11/16/23
		scale	AS SHOWN
		drawing no.	09

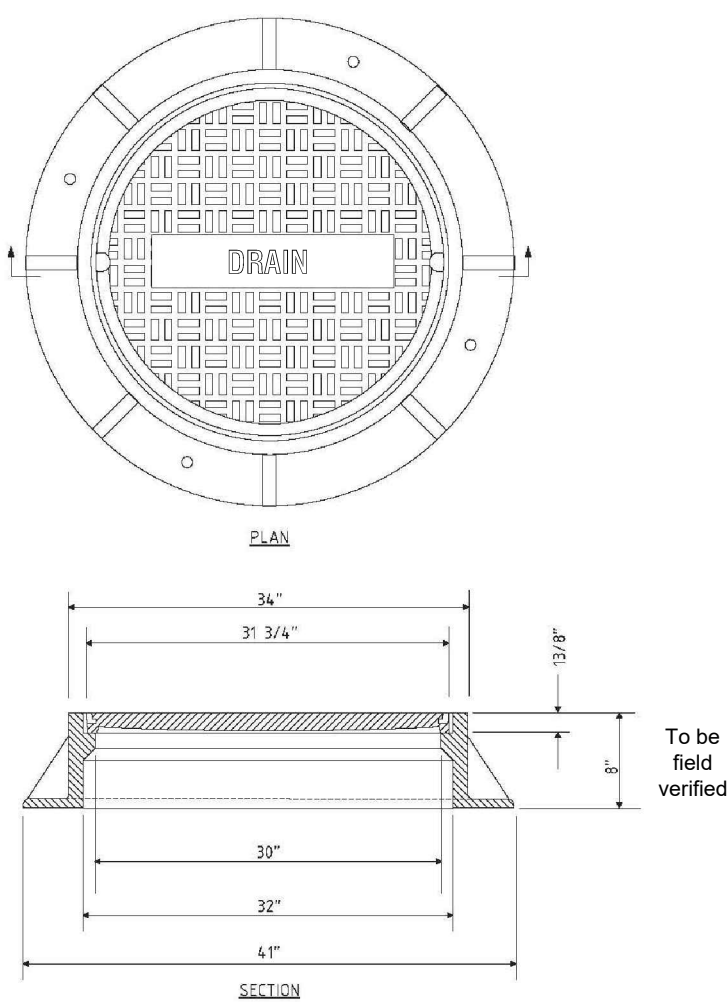
Heavy Duty 24" Manhole Frame & Bolted Cover



- NOTES:
1. MATERIAL - GRAY CAST IRON ASM A48-83, CLASS 35B.
 2. AASHTO HS25 HIGHWAY LOADING.
 3. BEARING SURFACE AT SEAT OF FRAME AND COVER SHALL BE MACHINED FOR UNIFORM FIT.
 4. CASTINGS SHALL BE SUPPLIED WITHOUT SURFACE COATING.
 5. CASTINGS SHALL BE MADE IN U.S.A.
 6. PATTERN NO. 1007D BY CAMPBELL FOUNDRY COMPANY, OR APPROVED EQUAL.
 7. COVERS TO BE CAST WITH 2" IDENTIFYING LETTERS "DRAIN" EMBOSSED AGAINST A RECESSED BACKGROUND.

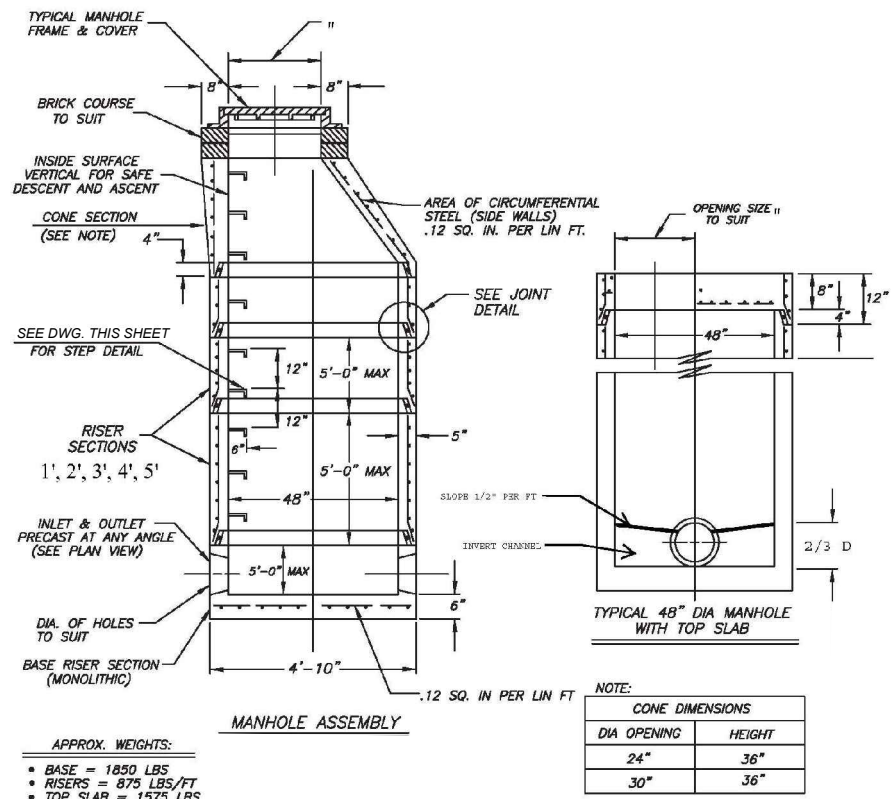
MANHOLE FRAME AND COVER DETAILS
NOT TO SCALE

Heavy Duty 30" Manhole Frame & Bolted Cover



- NOTES:
1. MATERIAL: GRAY CAST IRON, ASTM A-48-83, CLASS 35B.
 2. AASHTO HS20-44 HIGHWAY LOADING.
 3. BEARING SURFACE AT SEAT OF COVER AND FRAME SHALL BE MACHINED FOR UNIFORM FIT.
 4. COVER SHALL HAVE TWO NON-PENETRATING PICK HOLES.
 5. CASTINGS SHALL BE SUPPLIED WITHOUT SURFACE COATING.
 6. CASTING SHALL BE MADE IN U.S.A.
 7. PATTERN NO. 1012B BY CAMPBELL FOUNDRY COMPANY, OR APPROVED EQUAL.
 8. COVERS TO BE CAST WITH 2" IDENTIFYING LETTERS "DRAIN" EMBOSSED AGAINST A RECESSED BACKGROUND.

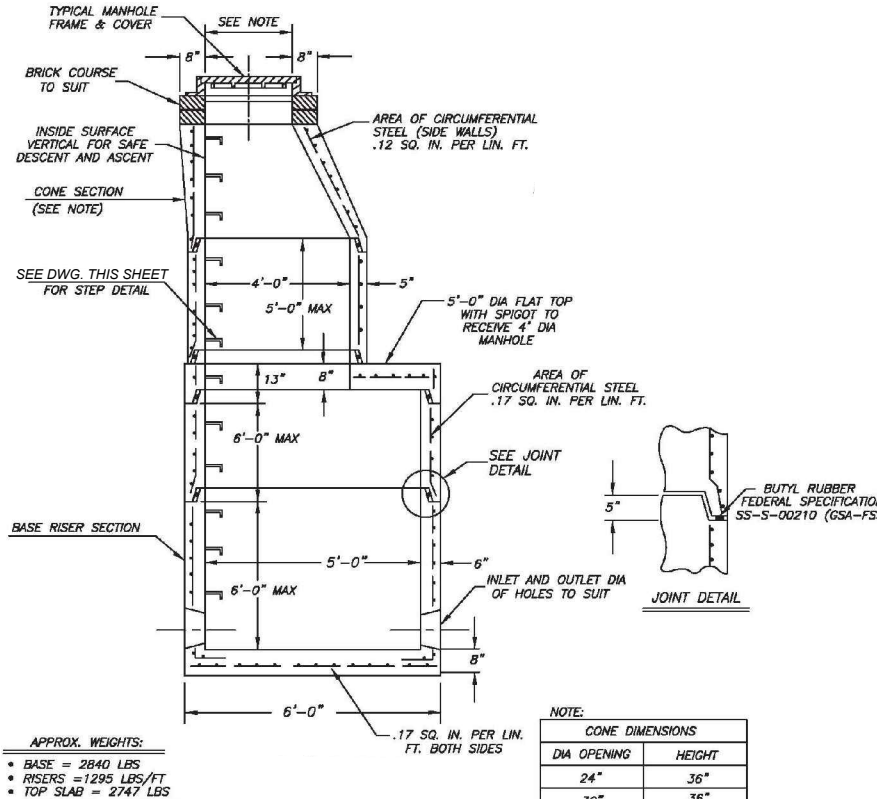
Typical 4'-0" Diameter Concrete Manhole with Standard Footing



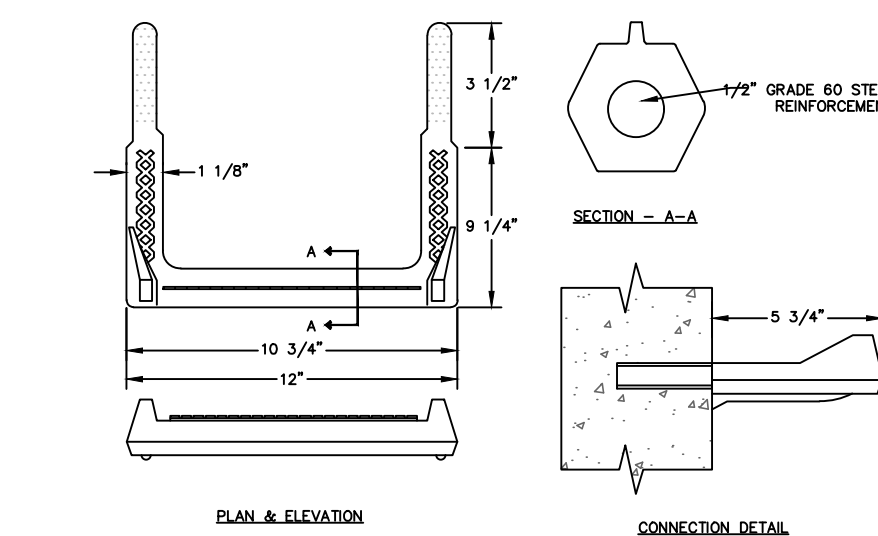
- NOTES:
1. CONCRETE TO TEST 4000 PSI @ 28 DAYS IN CONFORMANCE WITH ASTM C-478 DESIGN FOR H20 LOADING.
 2. MANHOLES BY PRECAST CONCRETE SALES CO. OR APPROVED EQUAL.
 3. ALL CASTINGS SHALL BE H20 LOAD RATED.

MANHOLE DETAILS
NOT TO SCALE

Typical 5'-0" Diameter Concrete Manhole with 4'-0" Diameter Manhole Stack

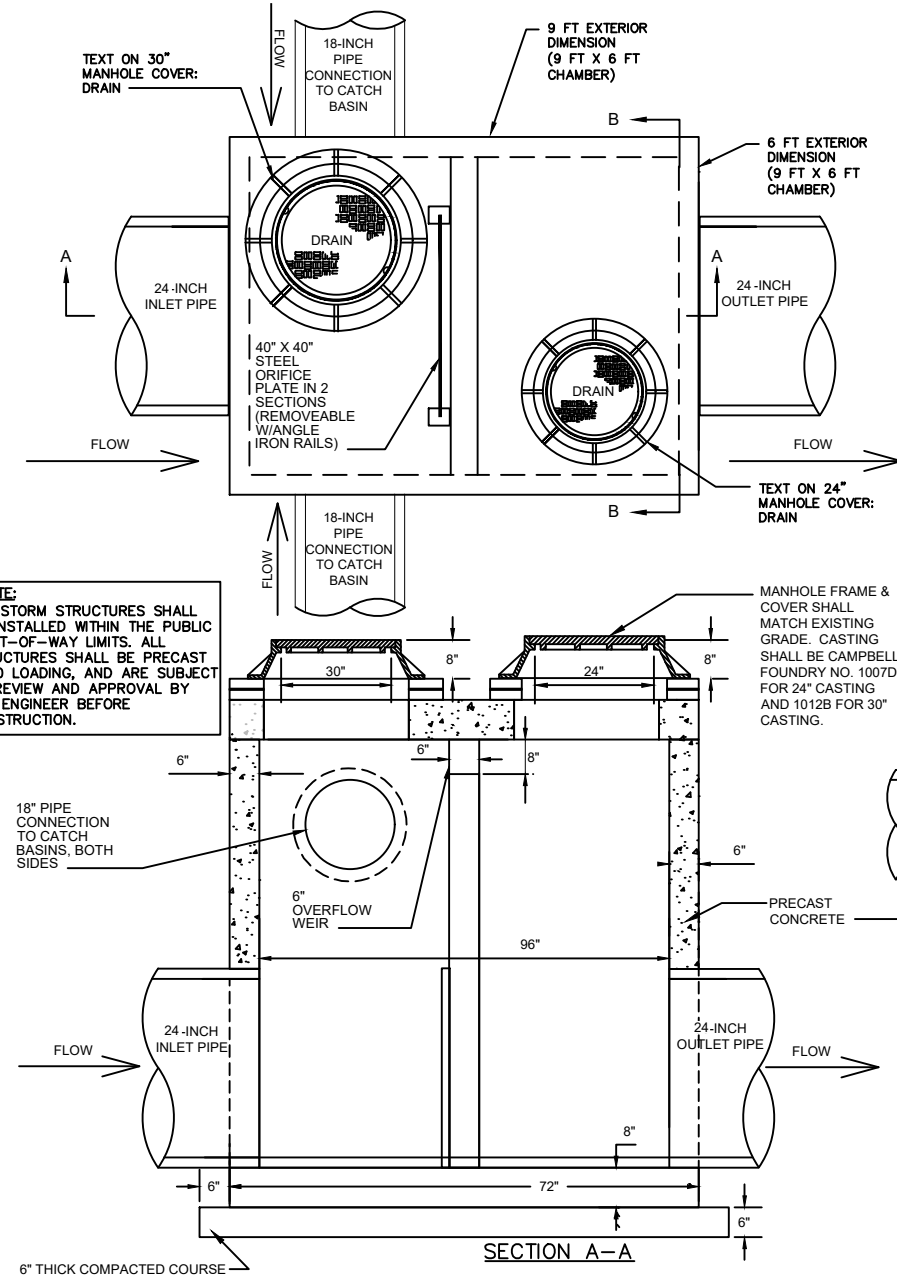


MANHOLE AIR RELEASE VENT DETAIL
NOT TO SCALE



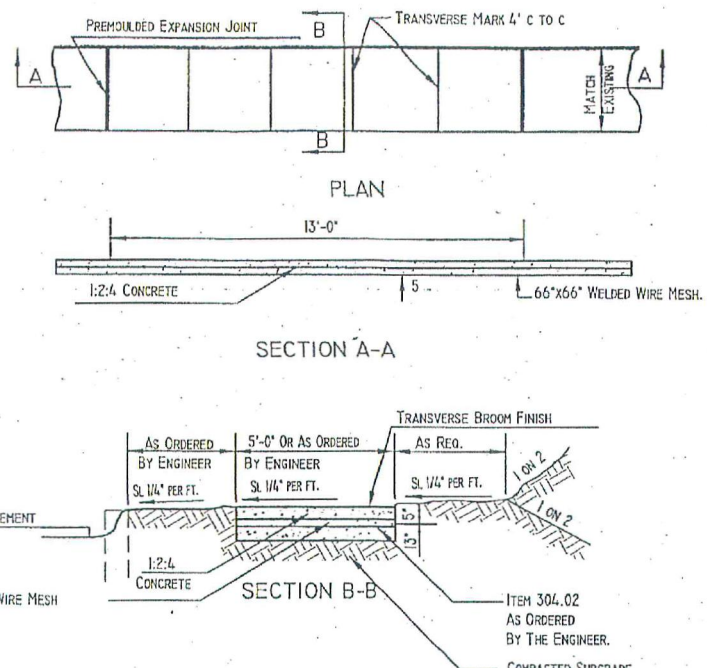
POLYPROPYLENE LADDER RUNG-STORM MH/INLETS
N.T.S.

N.T.S.

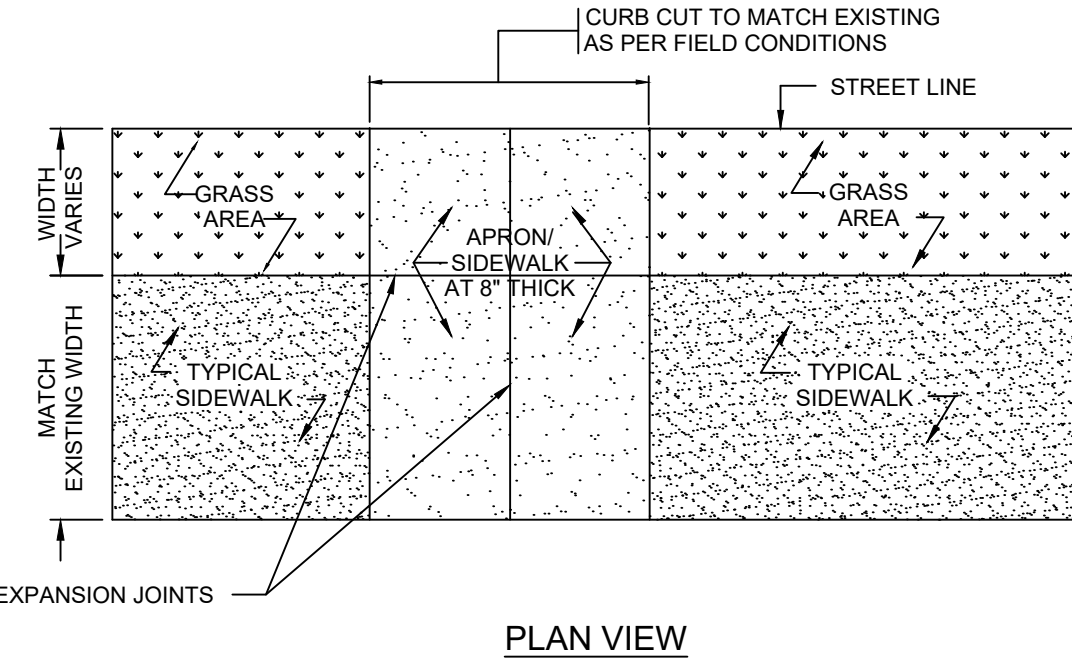


FLOW CONTROL CHAMBER DETAIL
N.T.S.

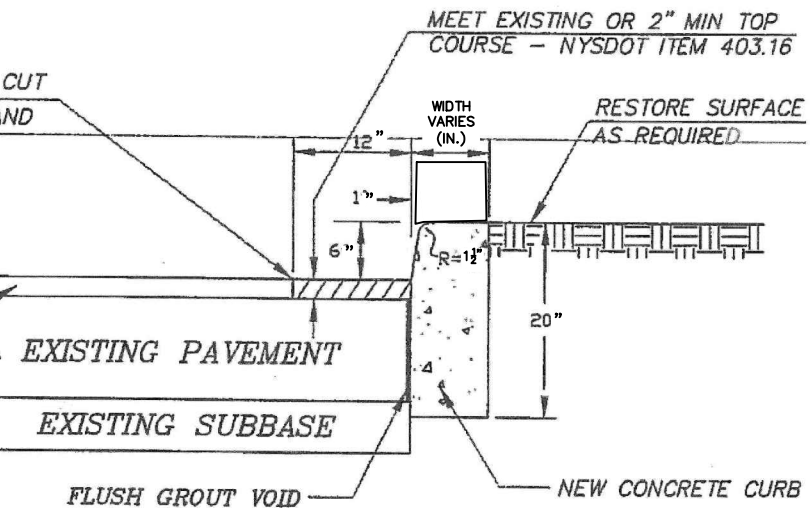
N.T.S.



CONCRETE SIDEWALK DETAIL



DRIVEWAY APRON DETAIL



CURB DETAIL

CONCRETE SIDEWALK, CURB AND DRIVEWAY APRON DETAILS
N.T.S.

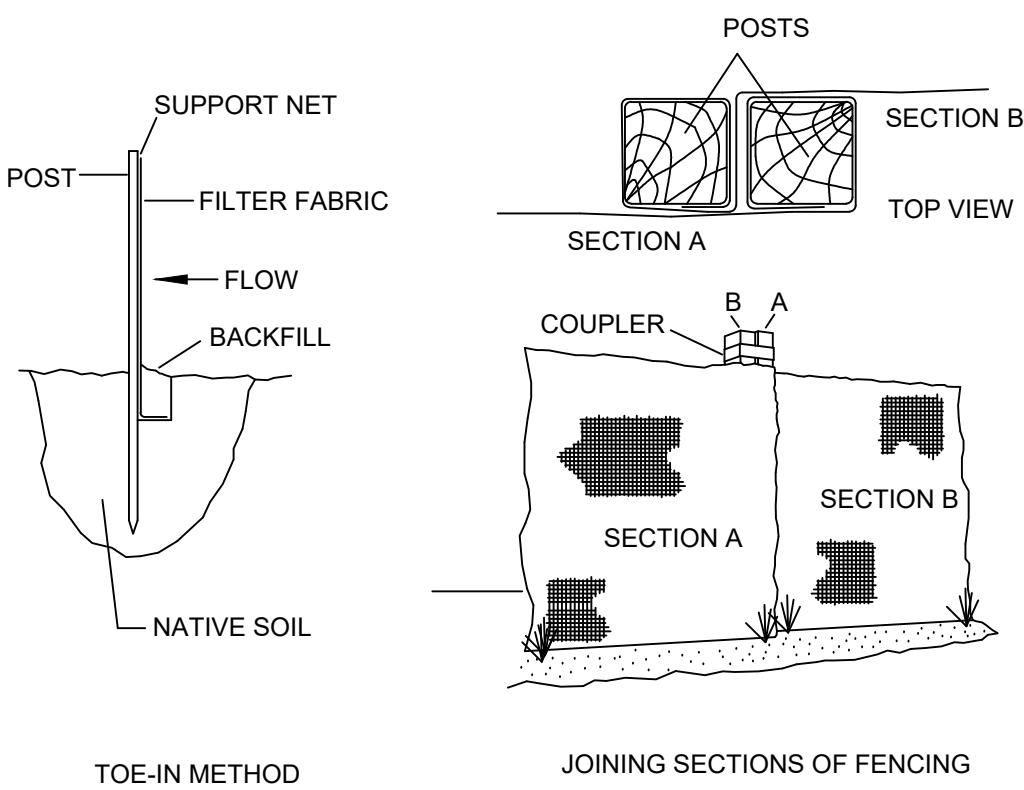
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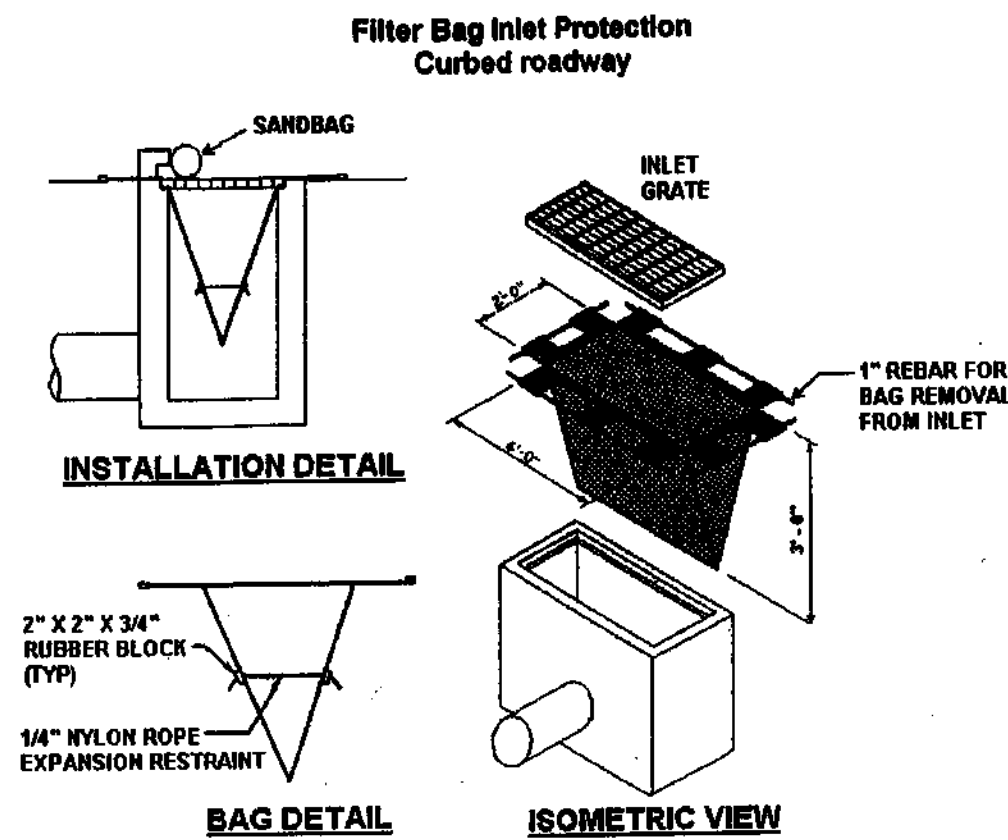
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		AS SHOWN	10



INSTALLATION NOTES

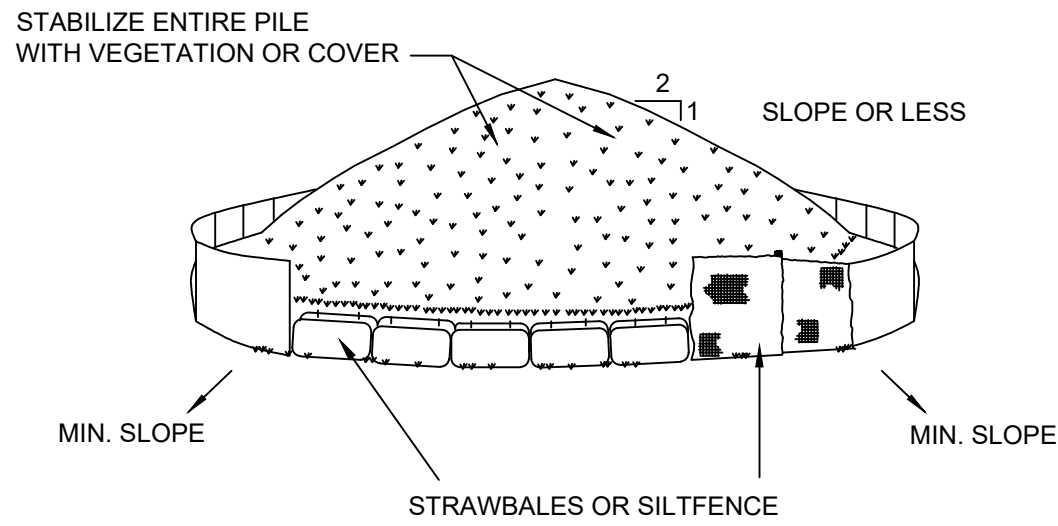
1. EXCAVATE A 6 INCH x 6 INCH TRENCH ALONG THE LOWER PERIMETER OF THE SITE.
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH (NET SIDE AWAY FROM DIRECTION OF FLOW).
3. DRIVE THE POST INTO THE GROUND UNTIL THE NETTING IS APPROXIMATELY 2 INCHES FROM THE TRENCH BOTTOM.
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. STEEPER SLOPES REQUIRE AN INTERCEPT TRENCH.
5. JOIN SECTIONS AS SHOWN ABOVE.
6. CONTRACTOR TO INSTALL SILT FENCE PER SITE CONDITIONS AND AS DIRECTED BY THE OWNER.

SILT FENCE DETAIL



CONTRACTOR TO PROVIDE AND INSTALL
ENPAC STORM SENTINEL CATCH BASIN INSERT
AS MANUFACTURED BY ENPAC CORP. OR APPROVED EQUAL.
CUSTOMER SERVICE: 1-800-6ENPAC9

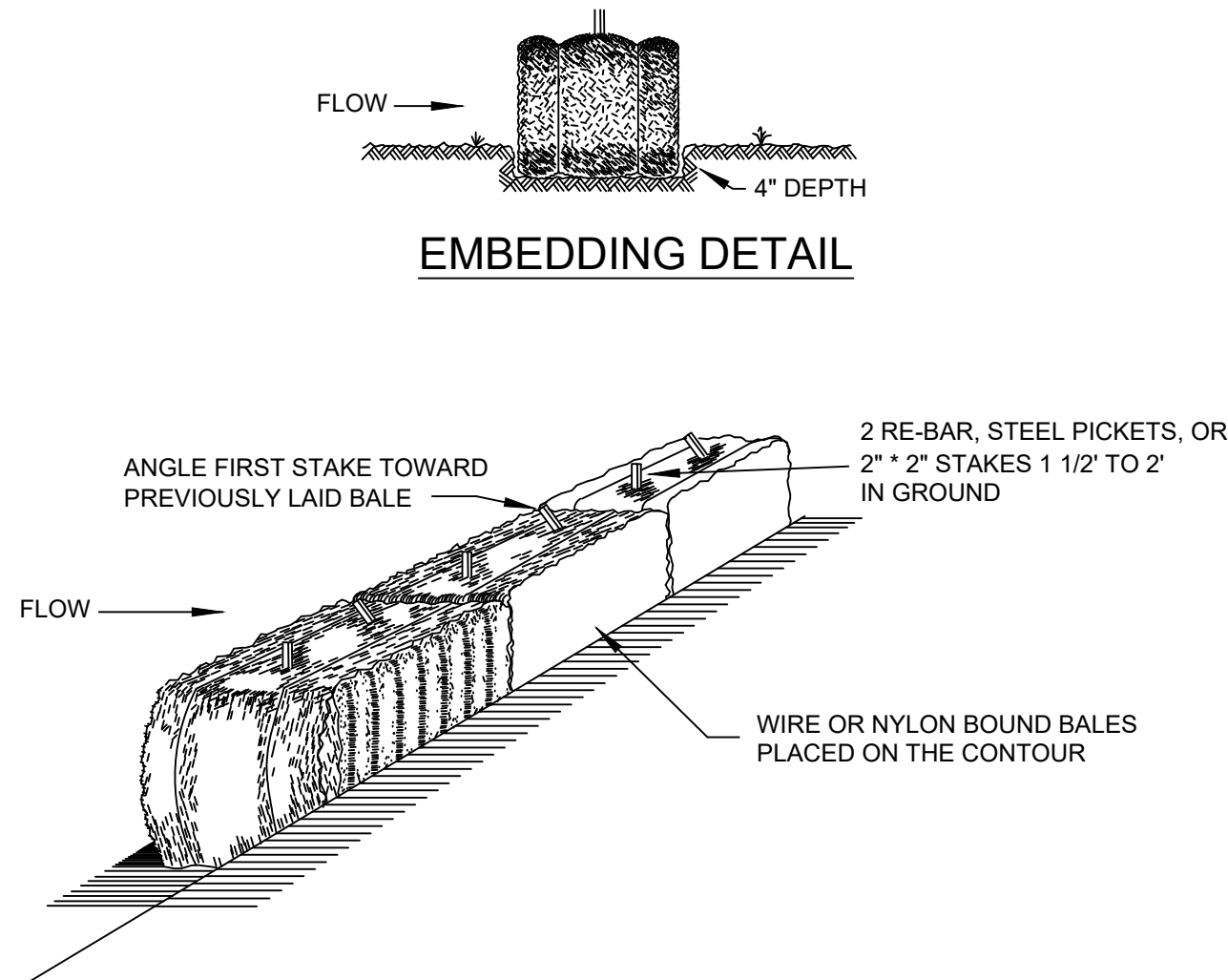
NOTE:
1. CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN CLEAN BAGS
2. BAGS ARE NOT TO BE USED ON MAJOR ROADS WHERE PONDING
MAY CAUSE TRAFFIC HAZARDS



INSTALLATION NOTES

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 1:2.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR STRAWBALES, THEN STABILIZED WITH VEGETATION OR COVERED.
4. SEE DETAILS FOR INSTALLATION OF SILTFENCE / STRAWBALE.

SOIL STOCKPILE DETAIL



INSTALLATION NOTES

1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4\"/>

STRAWBALE SEDIMENT BARRIERS DETAIL

GENERAL NOTES

1. ONLY DETAILS NOTES RELEVANT TO THE SPECIFIC PUBLIC WATER SUPPLY IMPROVEMENTS SHOWN ON THE ATTACHED PLANS ARE APPLICABLE.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL SEDIMENT AND EROSION CONTROL PRACTICES. THE SEDIMENT AND EROSION CONTROL PRACTICES ARE TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
3. TIMELY MAINTENANCE OF SEDIMENT CONTROL STRUCTURES IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL STRUCTURES SHALL BE MAINTAINED IN GOOD WORKING ORDER AT ALL TIMES. THE SEDIMENT LEVEL IN ALL SEDIMENT TRAPS SHALL BE CLOSELY MONITORED AND SEDIMENT REMOVED PROMPTLY WHEN MAXIMUM LEVELS ARE REACHED OR AS ORDERED BY THE ENGINEER. ALL SEDIMENT CONTROL STRUCTURES SHALL BE INSPECTED ON A REGULAR BASIS, AND AFTER EACH HEAVY RAIN TO INSURE PROPER OPERATION AS DESIGNED. AN INSPECTION SCHEDULE SHALL BE SET FORTH PRIOR TO THE START OF CONSTRUCTION.
4. THE LOCATIONS AND INSTALLATION TIMES OF THE SEDIMENT CAPTURING STANDARDS SHALL BE AS ORDERED BY THE ENGINEER, AND IN ACCORDANCE WITH THE STANDARDS SET FORTH IN THIS MANUAL.
5. ALL TOPSOIL NOT TO BE USED FOR FINAL GRADING SHALL BE REMOVED FROM THE SITE IMMEDIATELY AND PLACED IN A STABILIZED STOCKPILE OR FILL AREA. ALL TOPSOIL REQUIRED FOR FINAL GRADING AND STORED ON SITE SHALL BE LINED, FERTILIZED, TEMPORARILY SEEDED AND MULCHED WITHIN 21 DAYS.
6. ALL DISTURBED AREAS WITHIN 500 FEET OF AN INHABITED DWELLING SHALL BE WETTED AS NECESSARY TO PROVIDE DUST CONTROL.
7. THE CONTRACTOR SHALL KEEP THE ROADWAYS WITHIN THE PROJECT CLEAR OF SOIL AND DEBRIS, AND IS RESPONSIBLE FOR ANY STREET CLEANING NECESSARY DURING THE COURSE OF THE PROJECT.
8. SEDIMENT AND EROSION CONTROL STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED BY PERMANENT MEASURES.
9. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CURRENT EDITION OF "WESTCHESTER COUNTY BEST MANAGEMENT PRACTICES MANUAL FOR EROSION AND SEDIMENT CONTROL".

PERMANENT VEGETATIVE STABILIZATION STANDARDS

1. APPLY TOPSOIL TO A DEPTH OF 4\"/>

TEMPORARY VEGETATIVE STABILIZATION STANDARDS

1. APPLY GROUND LIMESTONE AT A RATE OF 90 LBS./1000 S.F.
2. APPLY FERTILIZER (10-20-10) AT A RATE OF 14 LBS./1000 S.F. AND WORK INTO SOIL 4\"/>

SOIL EROSION AND SEDIMENT CONTROL NOTES:

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 30 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC, WILL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH SALT HAY OR EQUIVALENT AND BOUND IN ACCORDANCE WITH THE WESTCHESTER COUNTY, NEW YORK BEST MANAGEMENT PRACTICES (i.e. PEG AND TWINE, MULCH NETTING, OR LIQUID MULCH BINDER).
3. IMMEDIATELY FOLLOWING THE 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 STATE STANDARDS.
4. STABILIZATION SPECIFICATIONS: (SEE TEMPORARY AND PERMANENT VEGETATIVE STABILIZATION STANDARDS ELSEWHERE ON THIS SHEET). ALL PLANTING SHALL BE DONE BETWEEN MARCH 1 AND MAY 15 OR AUGUST 15 AND OCTOBER 1.
5. THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUN-OFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
6. ALL SEDIMENTATION STRUCTURES WILL BE INSPECTED AND MAINTAINED ON A REGULAR BASIS.
7. 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\"/>

WESTCHESTER COUNTY DEPARTMENT OF HEALTH NOTE:
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IMPROVEMENTS SHOWN ON THE PLANS ARE APPLICABLE.

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N.Y. PROFESSIONAL ENGINEER LICENSE No. 071536

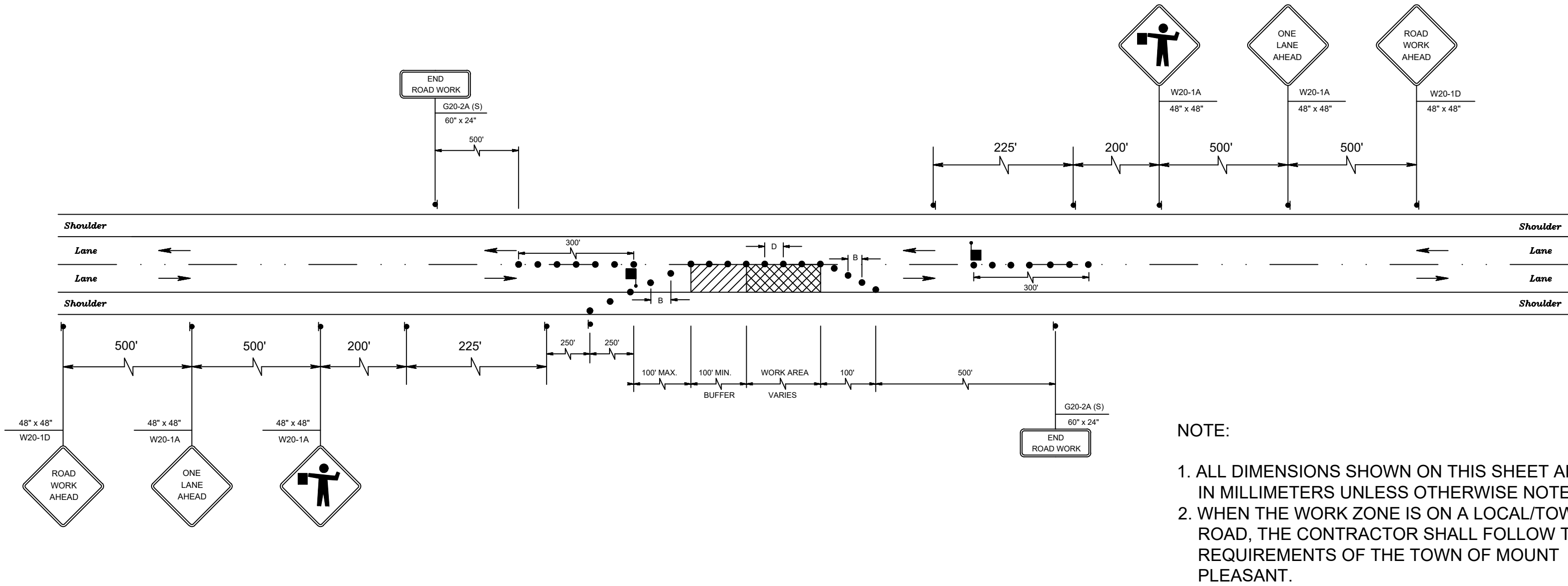
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PARSIPPANY, NEW JERSEY 07054
PH.: 973.683.0044
FAX.: 973.683.0077

N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE			
			WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2			
			ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			SOIL EROSION AND SEDIMENT CONTROL NOTES AND DETAILS			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	11	

TRAFFIC CONTROL PLAN WORK LANE CLOSURE OF LOCAL ROAD

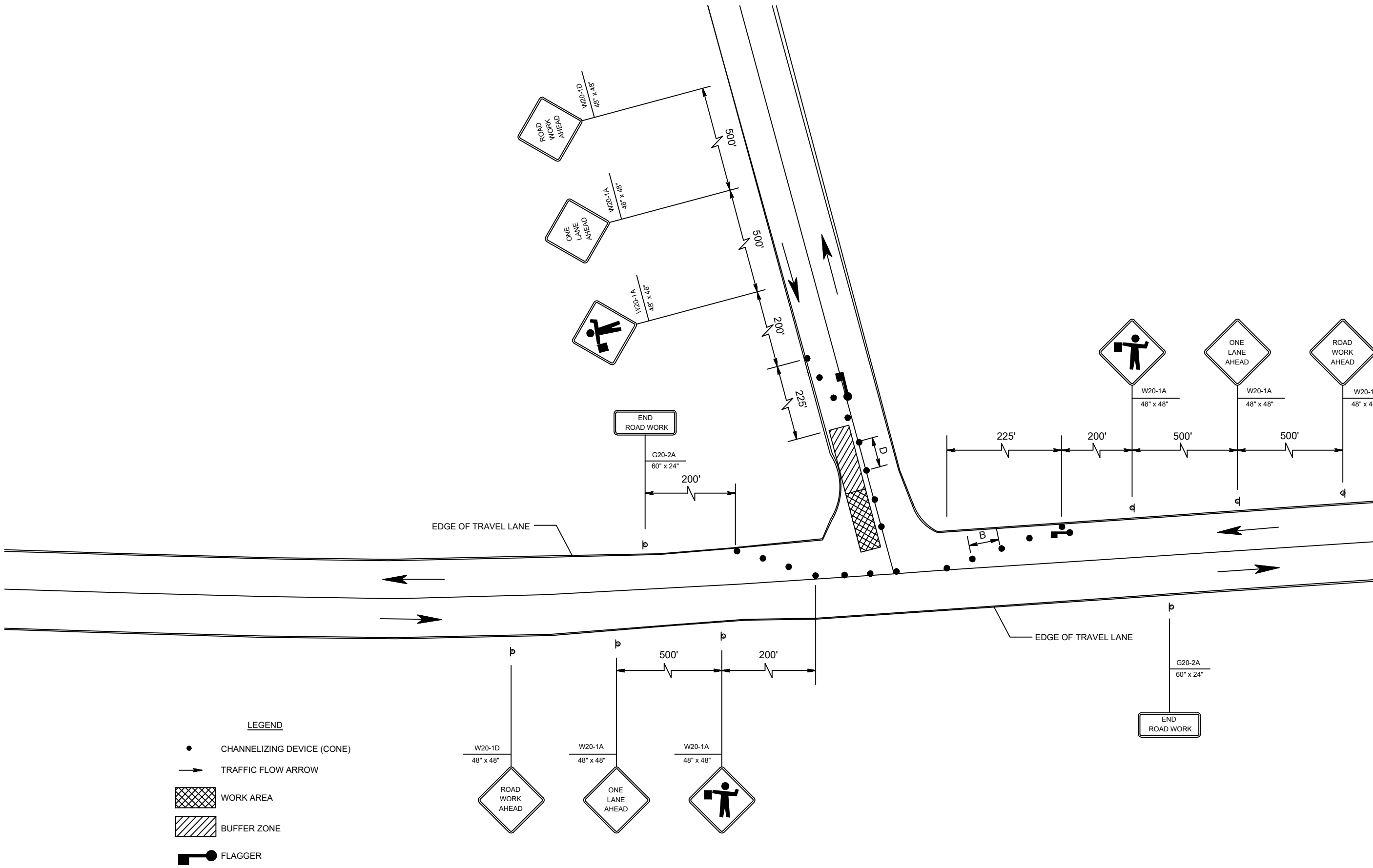
N.T.S.



- NOTE:
1. ALL DIMENSIONS SHOWN ON THIS SHEET ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
 2. WHEN THE WORK ZONE IS ON A LOCAL/TOWN ROAD, THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE TOWN OF MOUNT PLEASANT.

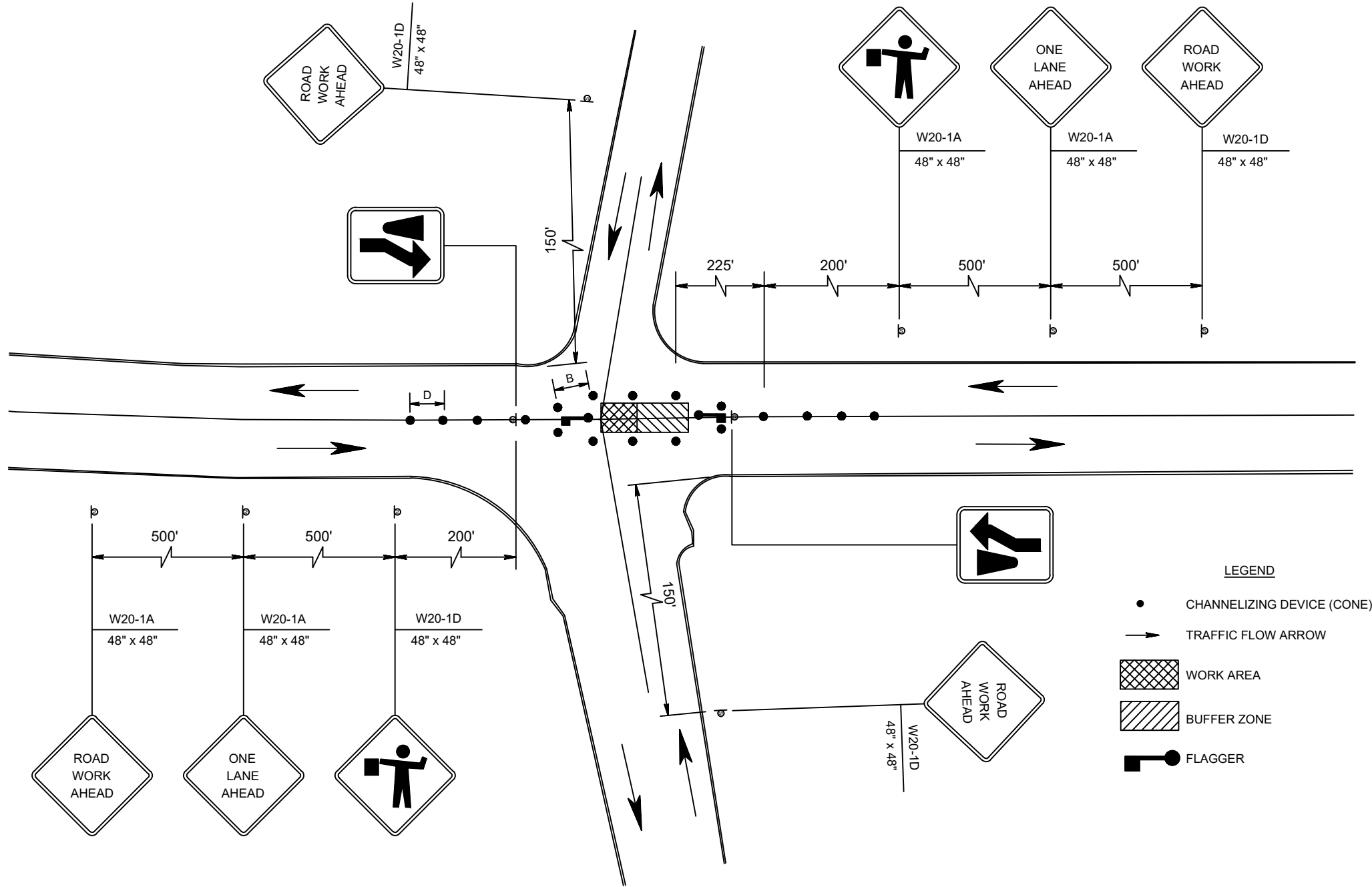
TRAFFIC CONTROL PLAN WORK AT INTERSECTION OF LOCAL ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK IN CENTER OF LOCAL ROAD

N.T.S.



RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS	
REGULATORY APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L-FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
10 FT	11 FT	12 FT				
25	10.5:1	105	115	125	25	50
30	15.0:1	150	165	180	30	60
35	20.5:1	205	225	245	35	70
40	27.0:1	270	295	320	40	80
45	45:1	450	495	540	45	90
50	50:1	500	550	600	50	100
55	55:1	550	605	660	55	110

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 2. THE DETAILS SHOWN ARE BASED ON THE MUTCD AND STATE REQUIREMENTS. ANY SPECIFIC DETAIL WILL BE PREPARED BY THE CONTRACTOR AND SUBMITTED TO THE DEPARTMENT FOR COMPLIANCE.

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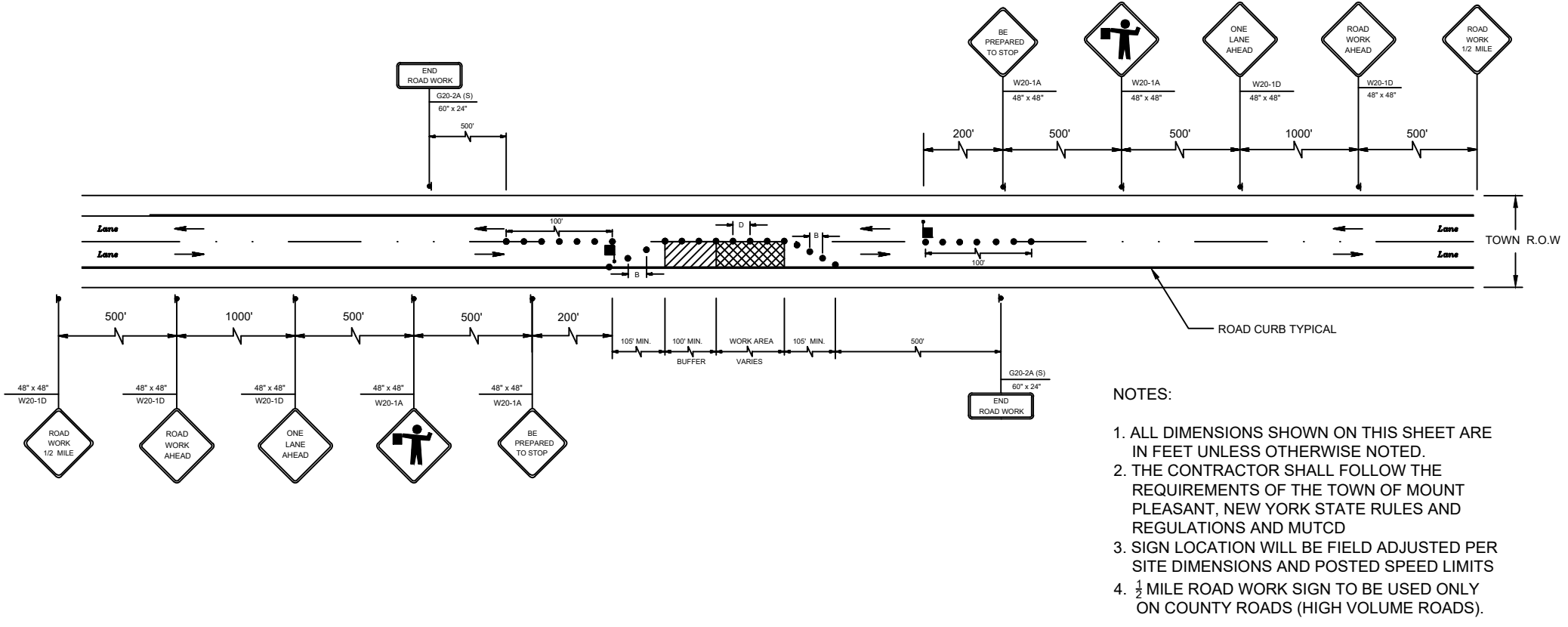
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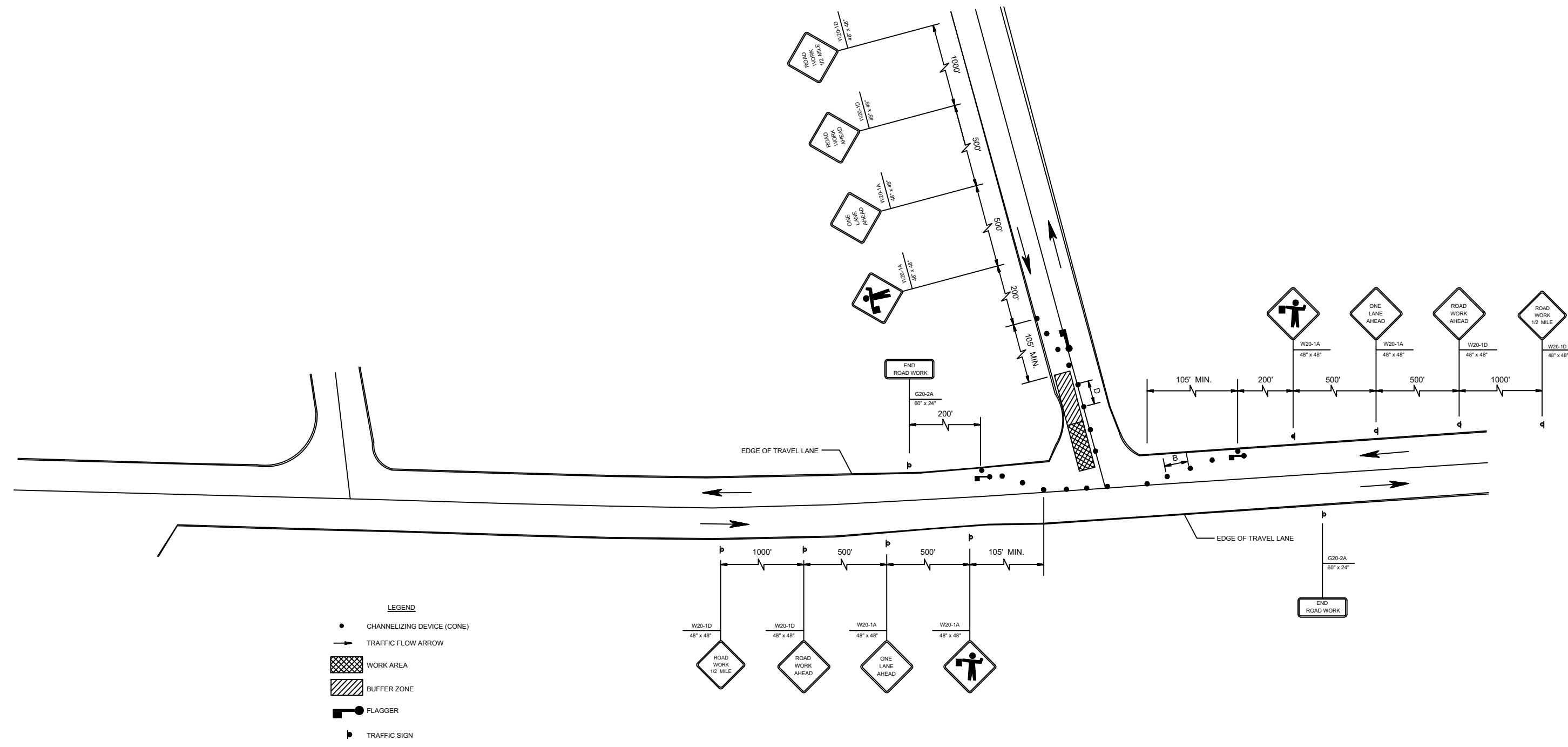
N.Y. CERTIFICATE OF AUTHORIZATION #0002562 (LLC)

REV.	DATE	DESCRIPTION	project name			
			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2 ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			TRAFFIC CONTROL PLANS - LOW VOLUME ROADS			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	12	



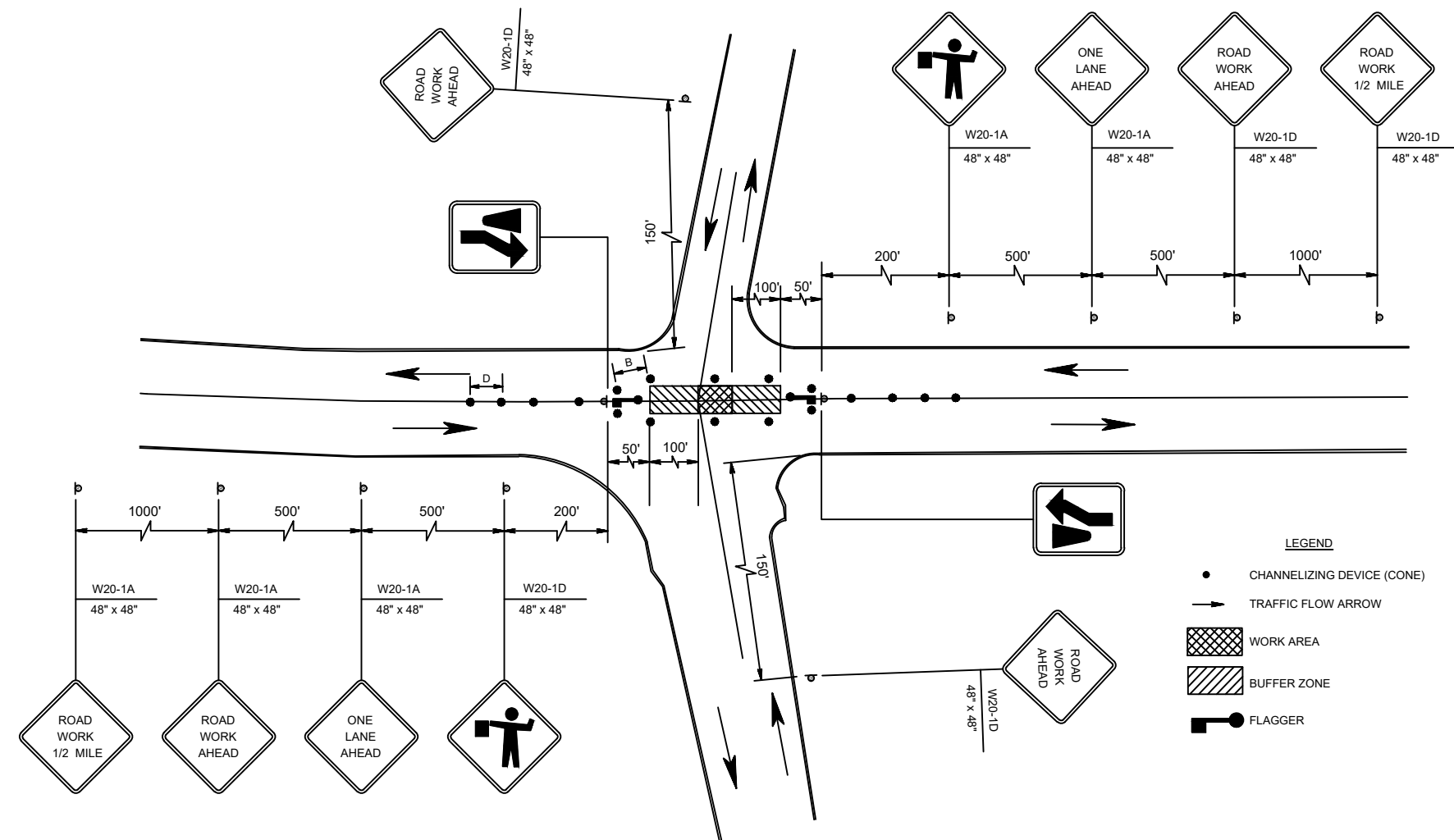
TRAFFIC CONTROL PLAN WORK LANE CLOSURE AT HIGH VOLUME COUNTY ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK AT INTERSECTION OF HIGH VOLUME COUNTY ROAD

N.T.S.



TRAFFIC CONTROL PLAN WORK IN CENTER OF HIGH VOLUME COUNTY ROAD

N.T.S.

RECOMMENDED TAPER LENGTH AND SPACING FOR CHANNELIZING TAPERS					RECOMMENDED SPACING ALONG TANGENTS	
REGULATORY APPROACH SPEED OF TRAFFIC IN MILES/HOUR	MINIMUM TAPER RATIO IN LENGTH PER FOOT OF WIDTH	MINIMUM TAPER LENGTH L-FOR LANE WIDTHS			MAXIMUM DEVICE (B) SPACING ALONG TAPERS IN FEET	MAXIMUM DEVICE (D) SPACING ALONG TANGENTS IN FEET
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			VILLAGE OF BRONXVILLE WESTCHESTER COUNTY, NEW YORK			
			CONTRACT NO. VA 2022-06-2 ELM ROCK ROAD, MASTERTON ROAD, AND PONDFIELD ROAD DRAINAGE IMPROVEMENTS			
			TRAFFIC CONTROL PLANS - HIGH VOLUME ROADS			
drawn by	checked by	project no.	date	scale	drawing no.	
AL/MM	GB/AJ	430H	11/16/23	AS SHOWN	13	