

21 & 25 GROVE AVENUE
BLOCK 1702 LOT 22
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY



* VARIANCE REQUIRED

(1) TAKEN FROM ARCHITECTURAL PLANS PREPARED BY BOONAR ARCHITECTURAL STUDIO AND DATED 9-29-2025.

(2) OR 9 FT X 18 FT WITH A 2 FT OVERHANG

(3) PER RIS:

a. A ONE-CAR GARAGE AND DRIVEWAY COMBINATION SHALL COUNT AS 2.0 OFF-STREET PARKING SPACES, PROVIDED THE DRIVEWAY MEASURES A MINIMUM OF 18 FEET IN LENGTH BETWEEN THE FACE OF THE GARAGE DOOR AND THE RIGHT-OF-WAY.

b. A TWO-CAR GARAGE AND DRIVEWAY COMBINATION SHALL COUNT AS 3.5 OFF-STREET PARKING SPACES, PROVIDED A MINIMUM PARKING WIDTH OF 20 FEET IS PROVIDED FOR A MINIMUM LENGTH OF 18 FEET AS SPECIFIED FOR A ONE-CAR GARAGE AND DRIVEWAY COMBINATION.

LOT COVERAGE CALCULATIONS		
DESCRIPTION	EXISTING	PROPOSED
HOUSE/TOWNHOUSE	2,901 SF	9,944 SF
GARAGE	420 SF	0 SF
DRIVEWAY	16,054 SF	7,834 SF
WALKWAYS	2,251 SF	616 SF
DECKS	0 SF	1,100 SF
WALLS	0 SF	240 SF
EQUIPMENT PADS	25 SF	0 SF
TOTAL:	21,651 SF	19,293 SF
CALCULATION:	21,651 SF / 31,210 SF	19,293 SF / 31,210 SF
PERCENTAGE:	69.4%	61.8%

TAX MAP & ZONING INFORMATION

TAX MAP INFORMATION FROM: TOWNSHIP OF VERONA TAX MAP SHEETS 16, 17, 18
 ZONING INFORMATION FROM:

GENERAL NOTES:

1. A PERMIT IS REQUIRED FROM THE OFFICE OF THE COUNTY ENGINEER PRIOR TO BEGINNING ANY WORK ALONG GROVE AVENUE
2. ALL WORK WITHIN THE COUNTY ROAD RIGHT-OF-WAY SHALL BE ACCORDING TO ESSEX COUNTY STANDARDS.

LIST OF APPROVALS REQUIRED:

1. TOWNSHIP OF VERONA ZONING BOARD
2. ESSEX COUNTY PLANNING BOARD SITE PLAN
3. HEPCSD SOIL EROSION AND SEDIMENT CONTROL

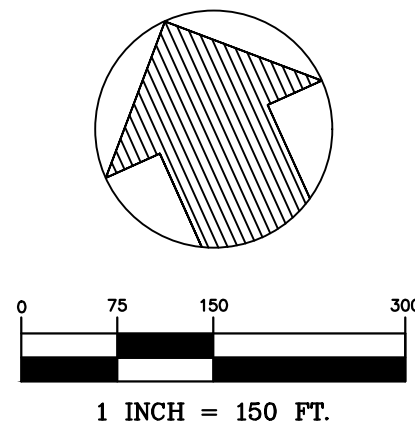
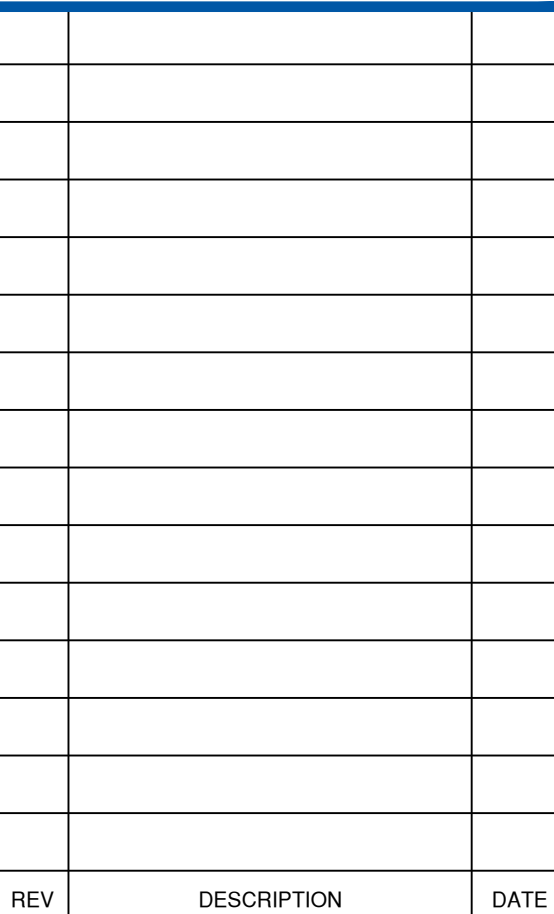
APPROVALS
TOWNSHIP OF VERONA ZONING BOARD

DATE _____

ZONING BOARD CHAIRPERSON _____ DATE _____

ZONING BOARD SECRETARY _____ DATE _____

BOARD ENGINEER _____ DATE _____



CHECKED BY: SPD



J. MICHAEL PETRY-PE,PP,RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662
DATE: 09/19/2025

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PREPARED FOR
MOHAMMAD ABBASI
BLOCK 1702, LOT 22
21-25 GROVE AVENUE
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

TITLE:

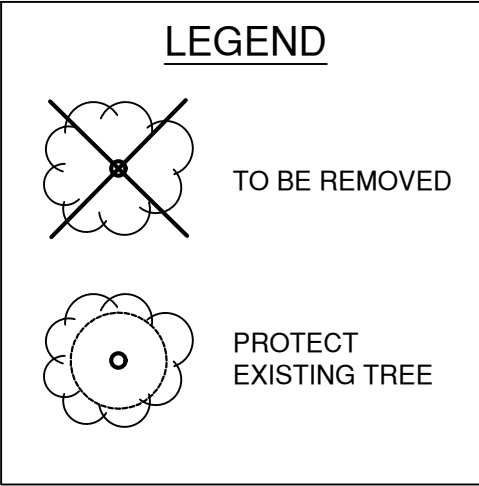
TITLE SHEET

PROJECT #:

25-250

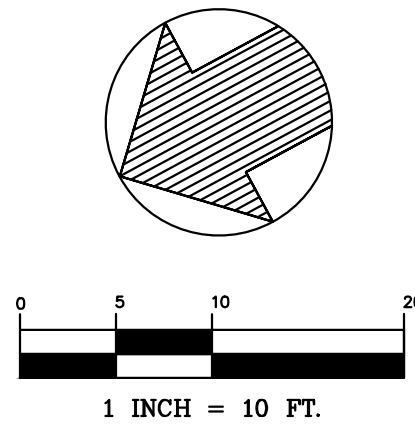
SHEET:

SP-1



REFERENCES:

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY MAP FOR 21-25 GROVE AVENUE, BLOCK 1702 LOT 22, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY" PREPARED BY AZZOLINA & FEURY ENGINEERING INC. AND SIGNED BY JOHN A. LOCH, P.L.S. DATED 08/05/2025.

[illegible]

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J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662
DATE: 10/06/2025

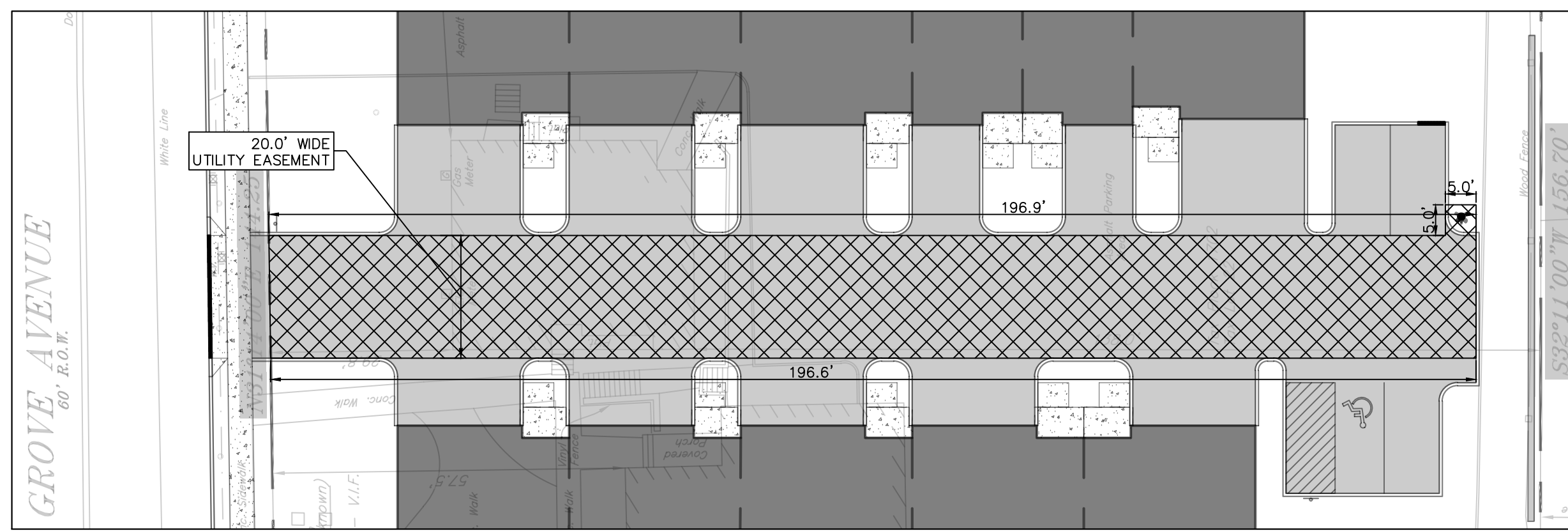
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BLOCK 1702, LOT 22
21-25 GROVE AVENUE
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

TITLE:

EXISTING CONDITIONS
AND DEMO PLAN

PROJECT #:	SHEET:
25-250	SP-2

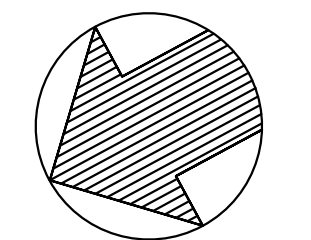


SIGN LEGEND

1	R1-1	STOP SIGN
2	R7-8 & 8B	HANDICAP PARKING



Petry
ENGINEERING LLC
DIVERSIFIED ENGINEERING
155 PASSAIC AVENUE • PARKELO • NEW JERSEY 07094
TEL: (973) 267-7004 FAX: (973) 267-7074
155@PETRYENGINEERING.COM

[illegible]

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SHEET:
SP-3

Unit 1				
Point	Ex. Elev.	Pr. Elev.	Lowest	
A	97.07	98.25	97.07	
B	96.27	98.25	96.27	
C	95.62	98.25	95.62	
D	95.20	98.25	95.20	
E	94.75	99.25	94.75	
F	94.81	99.25	94.81	
G	95.44	99.25	95.44	
H	97.47	99.25	97.47	
I	99.67	98.58	98.58	
J	99.55	98.25	98.25	
K	99.65	98.25	98.25	
L	98.06	98.25	98.06	
M	97.38	98.25	97.38	
N	97.28	98.25	97.28	
Average:	97.02	98.56	96.75	
First Floor Elevation:			99.25	
First Floor to Ridge:			34.67*	
Building Height =			37.18	
FF to Stair Bulk Head:			37.83*	
Building Height to SBH =			40.34	

Unit 2				
Point	Ex. Elev.	Pr. Elev.	Lowest	
A	95.20	98.25	95.20	
B	94.43	98.01	94.43	
C	93.64	97.77	93.64	
D	92.96	97.58	92.96	
E	92.52	98.58	92.52	
F	92.43	98.58	92.43	
G	92.65	98.58	92.65	
H	93.29	98.58	93.29	
I	93.99	97.91	93.99	
J	95.88	97.58	95.88	
K	97.47	99.25	97.47	
L	95.44	99.25	95.44	
M	94.81	99.25	94.81	
N	94.75	99.25	94.75	
Average:	94.25	98.46	94.25	
First Floor Elevation:			99.25	
First Floor to Ridge:			34.67*	
Building Height =			39.67	
FF to Stair Bulk Head:			37.83*	
Building Height to SBH =			42.83	

Unit 3			
Point	Ex. Elev.	Pr. Elev.	Lowest
A	92.96	97.58	92.96
B	91.49	97.34	91.49
C	90.34	97.10	90.34
D	90.70	96.91	90.70
E	90.69	97.91	90.69
F	91.06	97.91	91.06
G	91.48	97.91	91.48
H	91.65	97.91	91.65
I	92.07	97.24	92.07
J	92.45	96.91	92.45
K	93.29	98.58	93.29
L	92.65	98.58	92.65
M	92.43	98.58	92.43
N	92.52	98.58	92.52
Average:	91.88	97.79	91.88
First Floor Elevation:	99.25		
First Floor to Ridge:	34.67 *		
Building Height =	42.04		
FF to Stair Bulk Head:	37.83 *		
Building Height to SBH =	45.20		

Unit 4			
Point	Ex. Elev.	Pr. Elev.	Lowest
A	90.70	96.91	90.70
B	90.80	96.71	90.80
C	90.80	96.53	90.80
D	90.80	97.24	90.80
E	90.57	97.24	90.57
F	90.80	97.24	90.80
G	91.07	97.24	91.07
H	91.43	96.24	96.24
I	91.65	97.91	91.65
J	91.48	97.91	91.48
K	91.06	97.91	91.06
L	90.69	97.91	90.69
Average:	90.95	97.25	91.39
First Floor to Ridge:	99.25		
Building Height =	42.67*		
FF to Stair Bulk Head:	37.83*		
Building Height to SBH =	45.69		

Unit 5				
Point	Ex. Elev.	Pr. Elev.	Lowest	
A	90.80	96.53	90.80	
B	90.28	96.34	90.28	
C	89.19	96.15	89.19	
D	88.97	96.57	88.97	
E	89.37	96.57	89.37	
F	90.23	96.57	90.23	
G	90.53	96.57	90.53	
H	90.91	96.57	90.91	
I	91.07	97.24	91.07	
J	90.80	97.24	90.80	
K	90.57	97.24	90.57	
L	90.80	97.24	90.80	
Average:	90.29	96.65	90.29	
First Floor Elevation:			99.25	
First Floor to Ridge:			34.67*	
Building Height =			43.63	
FF to Stair Bulk Head:			37.83*	
Building Height to SBH =			46.79	

Unit 6			
Point	Ex. Elev.	Pr. Elev.	Lowest
A	89.19	96.15	89.19
B	88.92	95.94	88.92
C	88.68	95.74	88.68
D	88.50	95.57	88.50
E	88.69	95.57	88.69
F	88.97	95.57	88.97
G	89.57	95.57	89.57
H	90.01	95.57	90.01
I	90.17	95.57	90.17
J	90.32	95.90	90.32
K	90.53	96.57	90.53
L	90.23	96.57	90.23
M	89.37	96.57	89.37
N	88.97	96.57	88.97
Average:	89.44	95.96	89.44
First Floor Elevation:	99.25		
First Floor to Ridge:	34.67*		
Building Height =	44.48		
FF to Stair Bulk Head:	37.83*		
Building Height to SBH =	47.64		

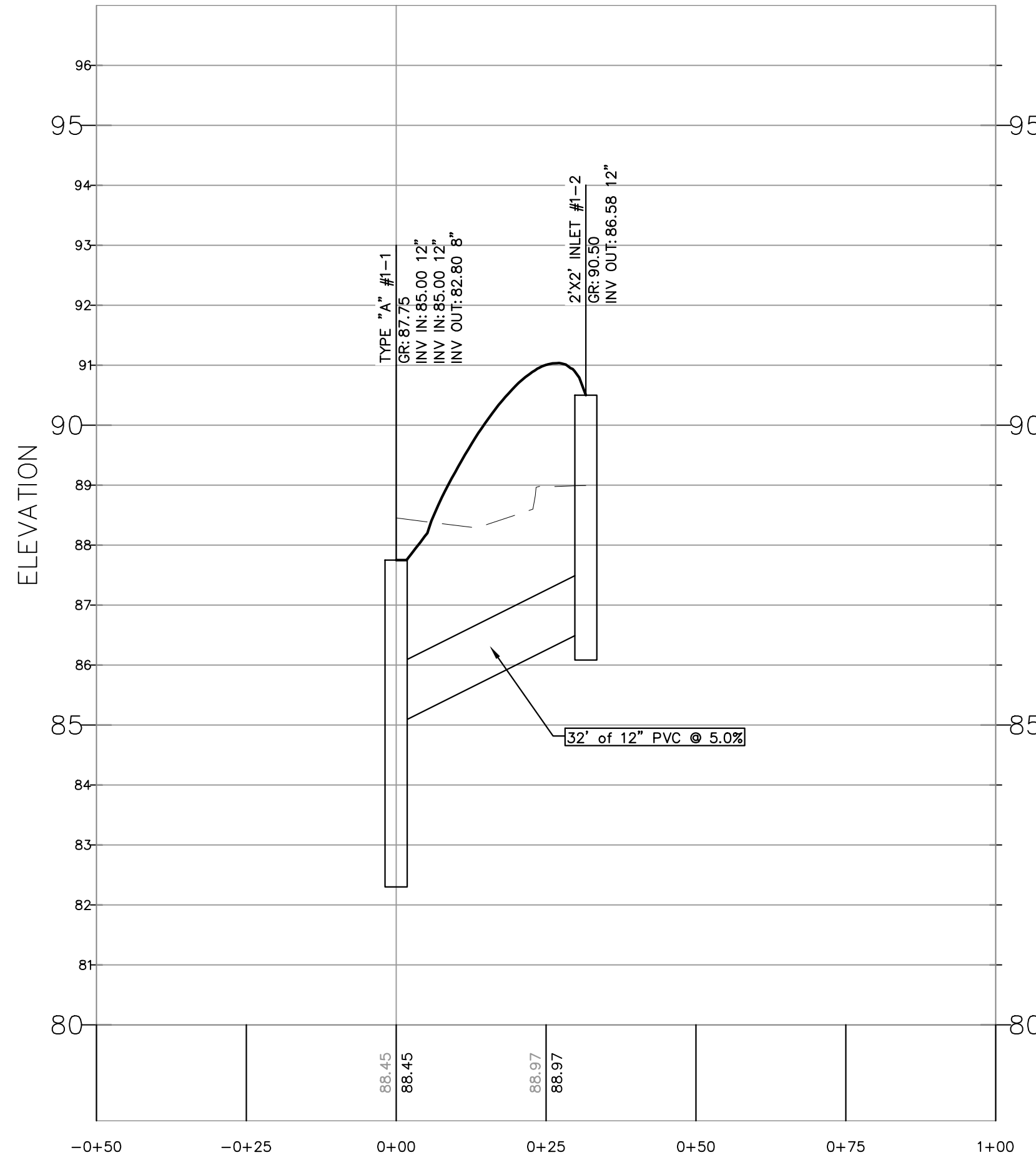
Unit 7			
Point	Ex. Elev.	Pr. Elev.	Lowest
A	100.15	98.75	98.75
B	100.22	98.75	98.75
C	100.62	99.08	99.08
D	100.43	99.75	99.75
E	100.63	99.75	99.75
F	100.87	99.75	99.75
G	100.73	99.75	99.75
H	100.52	100.16	100.16
I	100.63	100.33	100.33
J	100.67	100.54	100.54
K	100.52	100.75	100.52
L	100.42	100.52	100.42
M	100.36	100.22	100.22
N	100.36	99.91	99.91
Average:	100.51	99.86	99.83
First floor Elevation:		99.25	
First Floor to Ridge:		34.67 *	
Building Height =		34.09	
FF to Stair Bulk Head:		37.83 *	
Building Height to SBH =		37.25	

Unit 8				
Point	Ex. Elev.	Pr. Elev.	Lowest	
A	100.43	99.75	99.75	
B	100.51	98.08	98.08	
C	95.68	98.41	95.68	
D	103.20	99.08	99.08	
E	103.20	99.08	99.08	
F	103.20	99.08	99.08	
G	103.20	99.08	99.08	
H	103.20	99.58	99.58	
I	103.20	99.75	99.75	
J	103.20	99.95	99.95	
K	100.52	100.16	100.16	
L	100.73	99.75	99.75	
M	100.87	99.75	99.75	
N	100.63	99.75	99.75	
Average:	101.56	99.38	99.18	
First Floor Elevation:			99.25	
Building Height to Ridge:			34.67*	
Building Height =			34.74	
FF to Stair Bulk Head:			37.83*	
Building Height to SBH =			37.90	

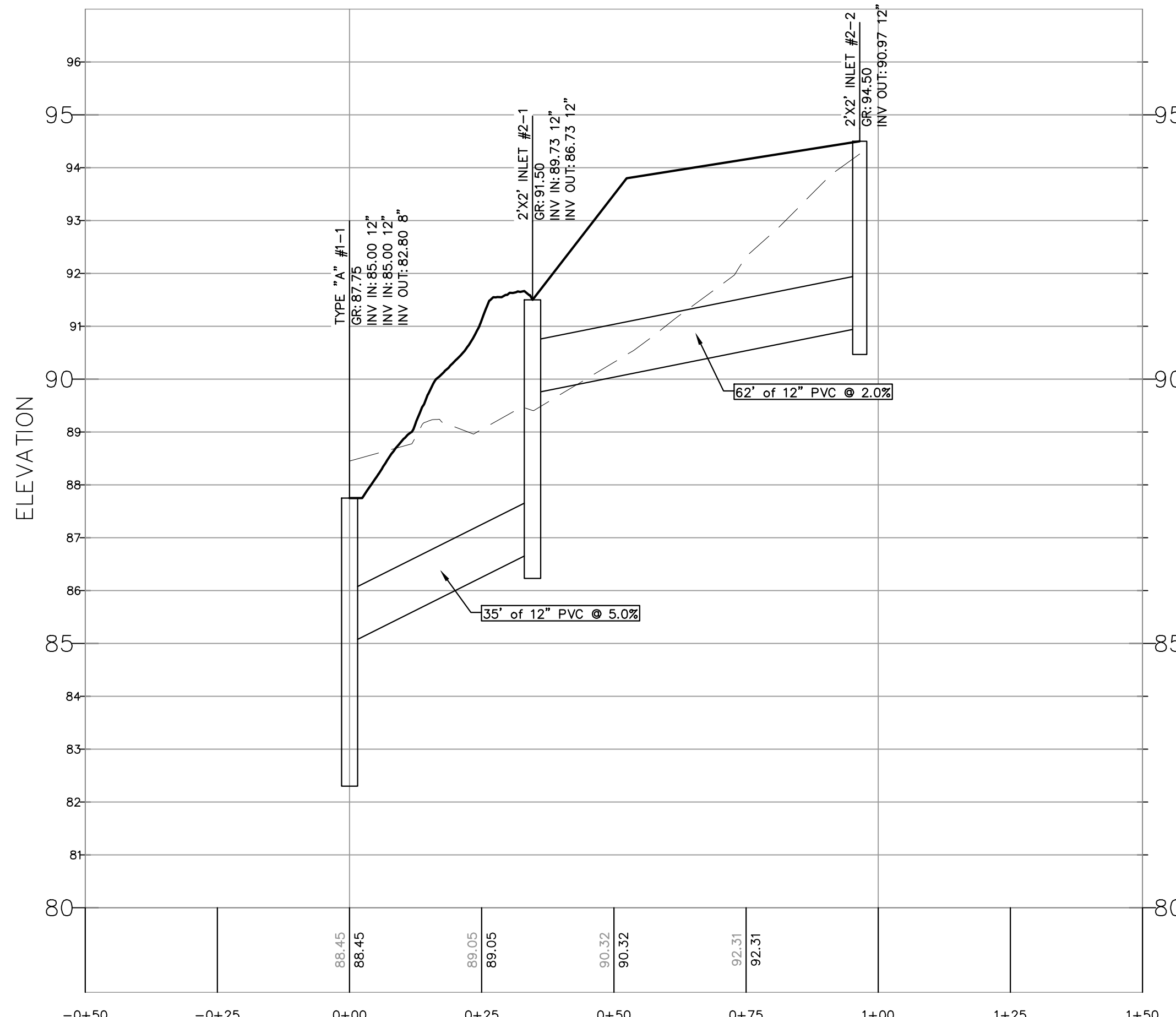
Unit 9				
Point	Ex. Elev.	Pr. Elev.	Lowest	
A	103.20	99.08	99.08	
B	103.20	97.41	97.41	
C	103.20	97.74	97.74	
D	93.97	98.41	93.97	
E	94.40	98.41	94.40	
F	94.93	98.41	94.93	
G	95.38	98.41	95.38	
H	95.67	98.99	95.67	
I	103.20	99.16	99.16	
J	103.20	99.37	99.37	
K	103.20	99.58	99.58	
L	103.20	99.08	99.08	
M	103.20	99.08	99.08	
N	103.20	99.08	99.08	
Average:	100.23	98.73	97.42	
First Floor Elevation:			99.25	
First Floor to Ridge:			34.67 *	
Building Height =			36.50	
FF to Stair Bulk Head:			37.83 *	
Building Height to SBH =			39.66	

Unit 10			
Point	Ex. Elev.	Pr. Elev.	Lowest
A	93.97	98.41	93.97
B	93.64	96.74	93.64
C	93.56	97.07	93.56
D	93.58	97.74	93.58
E	93.94	97.74	93.94
F	94.72	97.74	94.72
G	95.23	97.74	95.23
H	95.55	98.41	95.55
I	95.57	98.57	95.57
J	95.62	98.78	95.62
K	95.67	98.99	95.67
L	95.38	98.41	95.38
M	94.93	98.41	94.93
N	94.40	98.41	94.40
Average:		94.70	98.08
First Floor to Ridge:		99.25	
Building Height =		34.67 *	
FF to Stair Bulk Head:		37.83 *	
Building Height to SBH =		42.38	

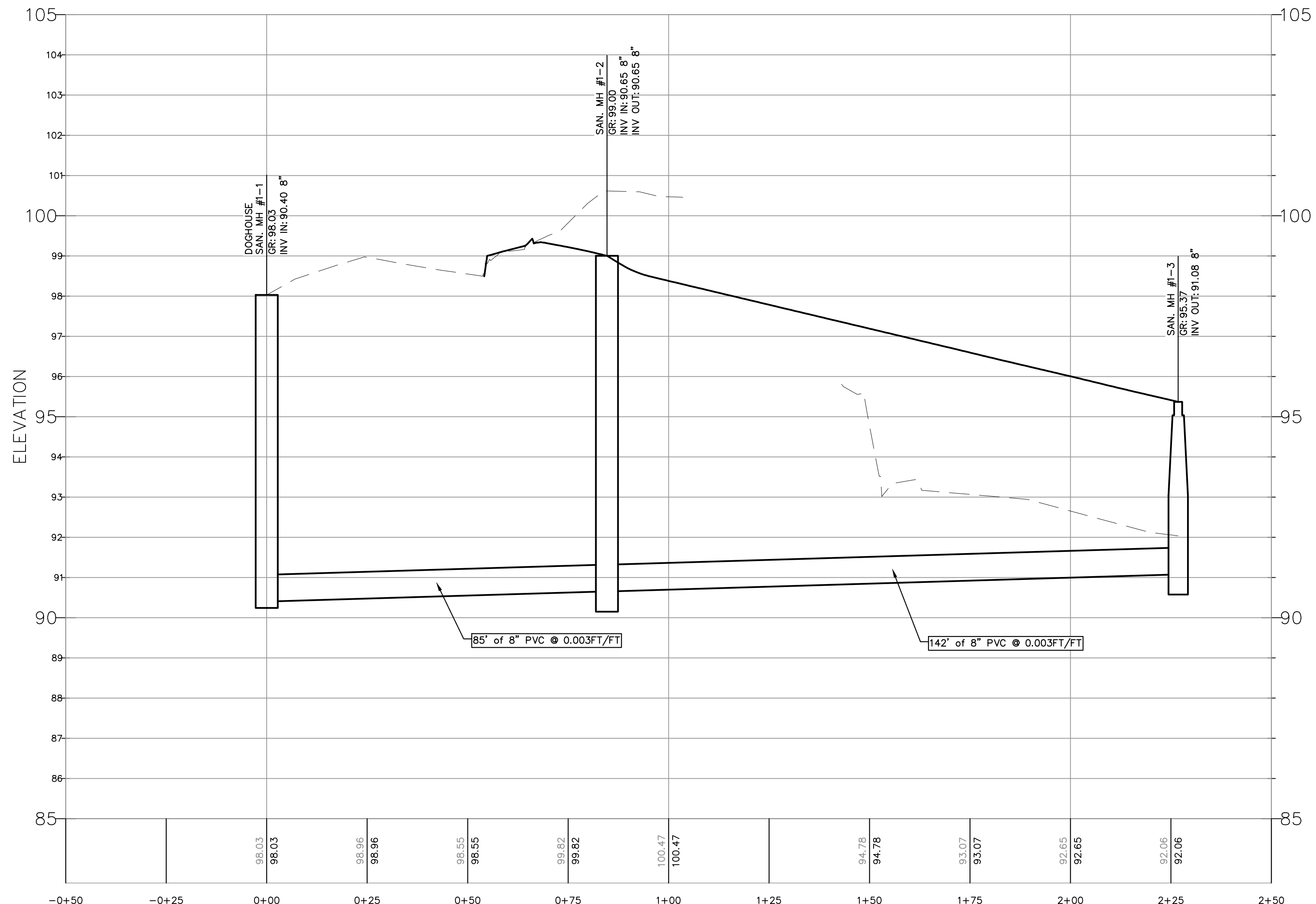
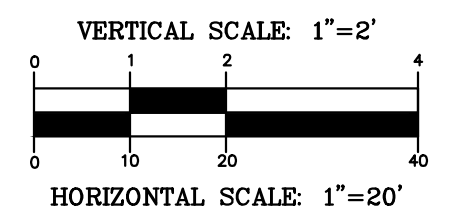
STORM SEWER NETWORK #1 PROFILE



STORM SEWER NETWORK #2 PROFILE



SANITARY SEWER NETWORK #1 PROFILE

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J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662
DATE: 10/06/2025

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PREPARED FOR
MOHAMMAD ABBASI
BLOCK 1702, LOT 22
21-25 GROVE AVENUE
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

TITLE:

**STORM AND SANITARY
SEWER PROFILES**

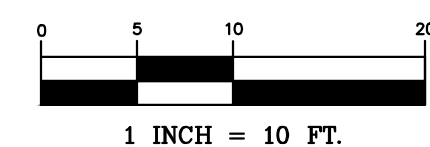
PROJECT #:
25-250

SHEET:
SP-4.5



TREE PLANTING SCHEDULE					
SYM	BOTANICAL NAME	COMMON NAME	SIZE/TYPE	SPACING	QUANTITY
AR	ACER RUBRUM	RED MAPLE	2.5"-3" CAL. B&B	30' C.C.	4
GB	GINKGO BILOBA	AUTUMN GOLD	2.5"-3" CAL. B&B	4' C.C.	4
LL	TAXODIUM DISTICHUM	LINDEN LITTLELEAF	2.5"-3" CAL. B&B	20' C.C.	2
IO	ILEX OPACA	AMERICAN HOLLY	2.5"-3" CAL. B&B	5' C.C.	8
CFW	CORNUS FLORIDA WHITE	FLOWERING DOGWOOD	2.5"-3" CAL. B&B	20' C.C.	3
JVT	JUNIPERUS VIRGINIANA TAYLOR	EASTERN RED CEDAR	2.5"-3" CAL. B&B	3.5' C.C.	123
PO	PICEA ORIENTALIS	SKYLANDS	2.5"-3" CAL. B&B	17' C.C.	6

1. BOUNDARY AND TOPOGRAPHIC INFORMATION TAKEN FROM A CERTAIN MAP ENTITLED "BOUNDARY & TOPOGRAPHIC SURVEY MAP FOR 21-25 GROVE AVENUE, BLOCK 1702 LOT 22, TOWNSHIP OF VERONA, ESSEX COUNTY, NEW JERSEY" PREPARED BY AZZOLINA & FEURY ENGINEERING INC. AND SIGNED BY JOHN A. LOCH, P.L.S. DATED 08/05/2025.



CHECKED BY: SPD

Checked off by:	Checked off on:



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MOHAMMAD ABBASI

BLOCK 1702, LOT 22

21-25 GROVE AVENUE
TOWNSHIP OF VERONA

TITLE:

LANDSCAPE PLAN

PROJECT #:
25-250

SHEET:
SP-5

SOILS EXPOSED OR STOCKPILED FOR A PERIOD OF GREATER THAN 14 DAYS, AND NOT UNDER ACTIVE CONSTRUCTION, SHALL BE SEEDED & HAY MULCHED AND STABILIZED WITH TEMPORARY VEGETATIVE COVER OR OTHER APPROVED.

- ### PERMANENT STABILIZATION

- DUST CONTROL NOTES:

1. MULCHES - SEE STANDARD FOR STABILIZATION WITH MULCHES ONLY (PG 5-1).
2. VEGETATIVE COVER - SEE STANDARD FOR TEMPORARY VEGETATIVE COVER (PG. 7-1, PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION (PG. 4-1) AND PERMANENT STABILIZATION WITH SOD (PG 6-1).
3. SPRAY-ON ADHESIVES - ON MINERAL SOILS (NOT EFFECTIVE ON MUCK SOILS). KEEP TRAFFIC OFF THESE AREAS.
4. TILLAGE - TO TO ROUGHEN SURFACE AND BRING CLODS TO THE SURFACE. THIS IS A TEMPORARY EMERGENCY MEASURE WHICH SHOULD BE USED TO PREPARE SOIL BLOWING STARTS. BEGIN PLOWING ON WINDWARD SIDE IF SITE HAS CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART, AND SPRING TOOTHED HARROWS ARE EXAMPLES OF EQUIPMENT WHICH MAY PRODUCE THE DESIRED EFFECT.
5. SPRINKLING - SITE IS SPRINKLED UNTIL SURFACE IS WET.
6. BARRIERS - SOLID BOARD FENCES, SNOW FENCES, BURLAP FENCES, CRATE WALLS, BALES OF HAY, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.
7. CALCIUM CHLORIDE - SHALL BE IN THE FORM OF LOOSE, DRY GRANULATES OF FLAKES FINE ENOUGH TO FEED THROUGH COMMONLY USED SPREADERS AT A RATE THAT WILL KEEP THE SURFACE MOIST BUT NOT CAUSE POLLUTION OR PLANT DAMAGE. IF USED ON STEEPER SLOPES, THEN USE OTHER PRACTICES TO PREVENT WASHING INTO STREAMS, OR ACCUMULATION AROUND PLANTS.

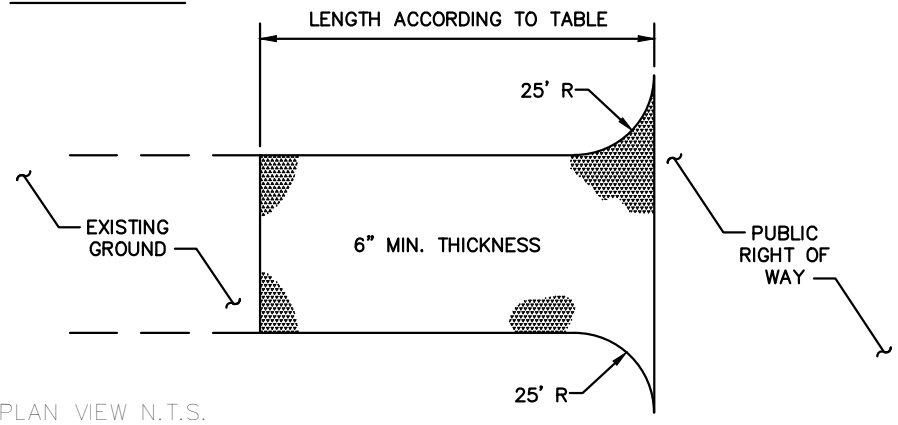
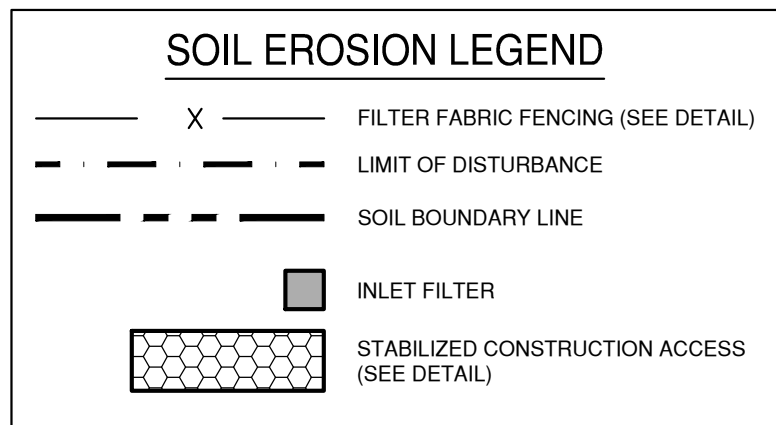
MATERIAL	WATER DILUTION	TYPE OF NOZZEL	APPLY GALLONS/AC RE
ANIONIC ASPHALT EMULSION	7:1	COARSE SORAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLA MIDE (PAM) IN WATER	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MAY ALSO BE USED AS AN ADDITIVE TO SEDIMENT BASINS TO FLOCCULATE AND PRECIPITATE SUSPENDED COLLOIDS. SEE SEDIMENT BASIN STANDARD (PG. 26-1)		
ON DRY SPRAY			
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200

(To be included on the signed erosion control plan sheet)

- <http://hepsoilnj.org>
HEPSCD251SESCNOTES_7THEDREV2017.DOC

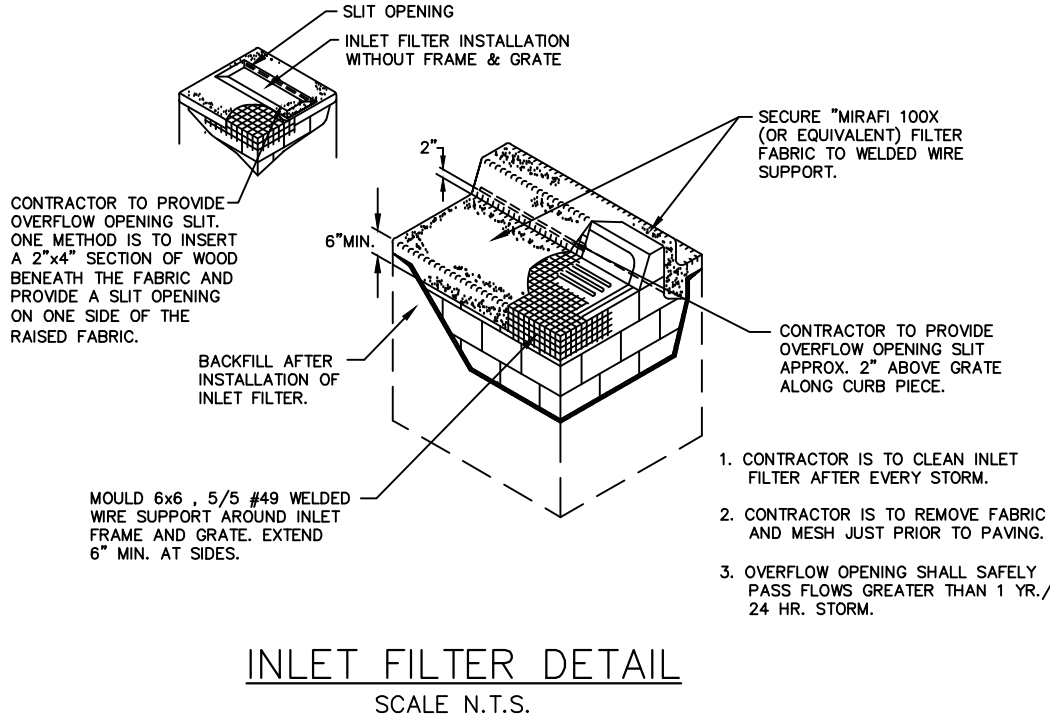
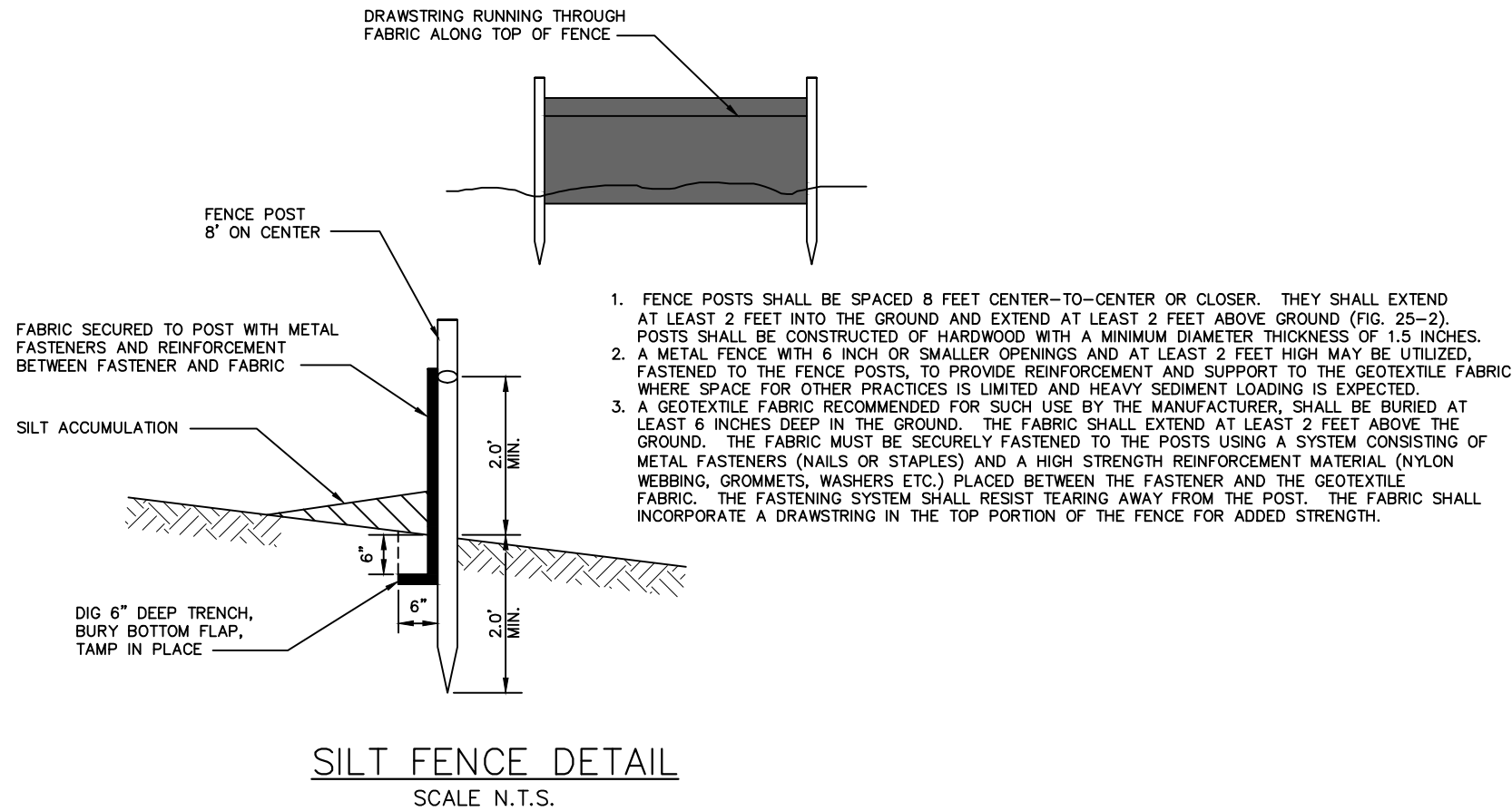
AS DETERMINED BY THE STATE POLICY MAP, THE PROJECT AREA FALLS WITHIN THE METROPOLITAN PLANNING AREA (PA1). UNDER EXISTING CONDITIONS, THE SITE IS NOT COVERED IN WOODY VEGETATION NOR REGROWTH. IN ACCORDANCE WITH NEW JERSEY STANDARD FOR LAND GRADING (REVISED 2017), NON WOODY VEGETATED PA1 AREAS FALL UNDER THE SOIL COMPACTION EXEMPTION LIST AS A "URBAN REDEVELOPMENT" AND IS DEFINED BY NJDEP AS "PREVIOUSLY DEVELOPED".

1. INSTALL TEMPORARY EROSION CONTROL MEASURES (DURATION: APPROX. 2 DAYS)
2. COMPLETE ALL DEMOLITION (DURATION: APPROX. 2 MONTHS)
3. CONSTRUCTION IN ACCORDANCE WITH ARCHITECTURAL AND CIVIL DESIGN PLANS (DURATION: APPROX. 1 YEAR)
4. REMOVE AND REINSTALL FILTER FABRIC AS NEEDED TO ACCOMMODATE CONSTRUCTION SEQUENCING. (DURATION: APPROX. 1 DAY)
5. FINAL GRADING AND STABILIZATION (DURATION: APPROX. 2 DAYS)
6. UPON STABILIZATION OF ALL AREAS, REMOVE ALL SOIL EROSION DEVICES AND CLEAN ENTIRE DRAINAGE SYSTEM. (DURATION: APPROX. 1 DAY)



LENGTH OF CONSTRUCTION EXIT TABLE		
PERCENT SLOPE OF ROADWAY	LENGTH OF STONE REQUIRED	
	COURSE GRAINED SOILS	FINE GRAINED SOILS
0 TO 2%	50 FT.	100 FT.
2 TO 5%	100 FT.	200 FT.
> 5%	ENTIRE SURFACE STABILIZED WITH FABC BASE COURSE	

SCALE N.T.S.

[illegible]

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DRAFTED BY: JAF



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BLOCK 1702, LOT 22
21-25 GROVE AVENUE
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

TITLE:

SESC NOTES AND
DETAILS

PROJECT #:	SHEET:
25-250	SP-7.2

1. ALL SITE IMPROVEMENTS TO BE PERFORMED IN ACCORDANCE WITH NJDOT SPECIFICATIONS (LATEST EDITION) UNLESS OTHERWISE NOTED.

2. THESE PLANS REPRESENT THE OVERALL SITE WORK IMPROVEMENTS REQUIRED FOR THE PROJECT CONSTRUCTION. THE CONTRACTOR SHALL FURNISH, INSTALL, TEST, AND COMPLETE ALL WORK TO THE SATISFACTION OF THE ENGINEER AND OWNER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION. AS SUCH, THESE PLANS DO NOT COMPLETELY REPRESENT, NOR ARE THEY INTENDED TO, ALL SPECIFIC INSTRUCTIONS REQUIRED FOR SITE WORK CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTING ALL IMPROVEMENTS DEPICTED ON THESE PLANS IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS, AND LAWS IN EFFECT AT THE TIME OF CONSTRUCTION.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS NECESSARY FOR CONSTRUCTION IN ACCORDANCE WITH EXISTING LOCAL, COUNTY OR STATE REGULATIONS, OR ANY OTHER AGENCIES HAVING JURISDICTION IN THESE MATTERS.

4. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE THE LOCATION OF THE UTILITIES WITH THE UTILITY DEPARTMENTS PRIOR TO CONSTRUCTION.

5. THE DRAWINGS SHOW THE EXISTING CONDITIONS WHICH ARE LIKELY TO AFFECT THE PROSECUTION OF THE WORK INSOFAR AS THEY HAVE BEEN DETERMINED. THESE DRAWINGS SHOULD NOT BE USED FOR SCALING OF DIMENSIONS OR FOR DETERMINING RIGHT-OF-WAY AND PROPERTY LIMITS.

6. THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON FIELD OBSERVATIONS OF SURFACE EVIDENCE AND CERTAIN INFORMATION CONTAINED IN THE PUBLIC RECORD AND RECORD DATA PROVIDED BY THE OWNER. THIS PLAN IN NO WAY REPRESENTS A GUARANTEE, EXPRESS OR IMPLIED, TO THE ACCURACY OF THESE PLOTTED LOCATIONS. ADDITIONALLY, THESE PLANS MAKE NO GUARANTEE THAT UTILITIES AND OTHER SUBSURFACE STRUCTURES ARE THE ONLY SUBSURFACE STRUCTURES.

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY HIS OPERATIONS. ALL COST ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.

8. THE COORDINATION OF THE LOCATION OR RELOCATION, WHERE REQUIRED, OF TELEPHONE, ELECTRIC, GAS, WATER, AND ETC. IS THE RESPONSIBILITY OF THE CONTRACTOR, AND THE SAME SHALL BE COORDINATED TO ENSURE COMPLETION WITHIN THE TIME PERMITTED.

9. THE CONTRACTOR SHOULD NOTIFY THE UNDERSIGNED PROFESSIONAL IMMEDIATELY IF ANY FIELD CONDITIONS ENCOUNTERED DIFFER MATERIALLY FROM THOSE REPRESENTED HEREON AND OR IF SUCH CONDITIONS IN THE CONTRACTOR'S OPINION WOULD OR COULD RENDER THE DESIGNS SHOWN HEREON INAPPROPRIATE OR INEFFECTIVE.

10. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR SHALL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION. DISPOSAL OF ALL MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMITS SHALL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXCAVATING IN ADVANCE OF PIPEWORK TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, AND DEPTH OF EXISTING UTILITY NOTED ON THE DRAWINGS PRIOR TO CONSTRUCTION. EXCEPT FOR THE EXCAVATION OF TEST PITS AS NOTED ON THE DRAWINGS OR WHEN DIRECTED BY THE ENGINEER, NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK BUT SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.

12. THE CONTRACTOR SHALL SUPPLY AND ERECT NECESSARY WARNING SIGNS AND PROPER TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, AND IN COMPLIANCE WITH THE REQUIREMENTS OF THE (TOWNSHIP) POLICE DEPARTMENT. THE CONTRACTOR SHALL FURNISH FLAGMEN AS MAY BE REQUIRED TO MAINTAIN TRAFFIC. THE CONTRACTOR SHALL CONTACT THE POLICE DEPARTMENT PRIOR TO STARTING ANY WORK AND NOTIFY THEM OF HIS PROPOSED OPERATIONS.

13. THE CONTRACTOR SHALL BACKFILL AND PAVE ANY OPEN TRENCH AT THE END OF EACH DAY AND SHALL TAKE ANY NECESSARY PRECAUTION TO PROVIDE A SAFE AND ACCESSIBLE WORK AREA FOR VEHICULAR AND PEDESTRIAN TRAFFIC.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING VEHICLE ACCESS TO ALL DRIVEWAYS, BUILDING ENTRANCES, AND SIDE STREETS ALONG THE CONSTRUCTION ROUTE TO THE MAXIMUM EXTENT PRACTICABLE.

15. ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS, AND WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT AND WITH STATE AND LOCAL LAWS AND REGULATIONS (WHICHEVER IS MORE STRINGENT.)

16. THE CONTRACTOR SHALL BRACE AND SUPPORT ALL EXISTING CURB IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION WORK. PLANKS SHALL BE PLACED OVER CURBS TO PREVENT DAMAGE BY THE CONTRACTOR'S EQUIPMENT. ANY CURB WHICH IS DAMAGED, DISTURBED, OR REMOVED IN AREAS OTHER THAN WHERE THE PIPELINE CROSSES EXISTING CURBING, AS SHOWN ON THE DRAWINGS, SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. CURBS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THE DRAWINGS.

17. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE STATE OF NJ WORKERS HEALTH AND SAFETY ACT (N.J.A.C. 12:110 ET. SEQ.) AS AMENDED AND THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) (29 CFR 1910), AS AMENDED WITH REGARD TO WORKER AND JOB SITE SAFETY.

18. THE CONTRACTOR SHALL CONTRACT WITH THE (TOWNSHIP OF VERONA) TO PROVIDE UNIFORMED POLICE FLAGMEN AS NECESSARY FOR WORK CONDUCTED WITHIN ROADWAYS.

19. SELECT FILL SHALL BE EITHER CLASS I OR II SOIL.

1. EXCESS EXCAVATED MATERIAL WILL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR WILL MAKE ARRANGEMENTS TO DISPOSE OF THE MATERIAL AT A SUITABLE LOCATION. DISPOSAL OF ALL MATERIAL, GRADING AND RESTORING THE DISPOSAL SITES, AND OBTAINING ANY PERMIT WILL BE PERFORMED AT THE SOLE COST OF THE CONTRACTOR.

2. THE MAXIMUM ALLOWABLE JOINT DEFLECTION FOR DUCTILE IRON PIPE SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S RECOMMENDATIONS AND AWWA STANDARDS.

3. PROVIDE A MINIMUM VERTICAL CLEARANCE OF 18 INCHES AND A HORIZONTAL CLEARANCE OF 10 FEET BETWEEN WATER LINES AND UTILITIES OR OBSTRUCTIONS, UNLESS OTHERWISE SHOWN.

4. ALL FITTINGS ARE TO BE MECHANICAL JOINT WITH RETAINER GLANDS. HOWEVER, SOME FITTINGS SHALL REQUIRE THE INSTALLATION OF THRUST BLOCKS AS SHOWN IN THE DRAWINGS. PROVIDE CONCRETE THRUST BLOCKS IN ACCORDANCE WITH DETAILS OR AS NOTED THE DRAWINGS OR AS REQUIRED BY SPECIFIC SOIL CONDITIONS ENCOUNTERED. TYPICAL THRUST BLOCK REACTION DETAILS SHOWN ON THE DRAWINGS ARE MINIMUM REQUIREMENTS. WHERE GALVANIZED RODS ARE TO BE USED FOR ANCHORING FITTINGS OR VALVES, THE COST OF SUCH MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR DUCTILE IRON FITTINGS AND GATE VALVES.

5. NOTIFY THE ENGINEER, WATER, AND FIRE DEPARTMENTS 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING WATER MAINS.

6. THE CONTRACTOR SHALL INSTALL TEMPORARY AIR RELEASE TAPS, AND SAMPLING TAPS WITH COPPER SAMPLING PIPE FOR TESTING AND DISINFECTION AS NEEDED OR AS REQUIRED BY THE ENGINEER. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE THE SAMPLING PIPE AND CLOSE OFF THE TAP AT THE MAIN AFTER COMPLETION OF ALL TESTING AND WHEN APPROVED BY THE ENGINEER. THE FURNISHING, INSTALLATION, AND REMOVAL OF TAPS AND PIPE SHALL BE INCLUDED IN UNIT PRICE BID FOR TESTING AND DISINFECTION.

7. THE GENERAL LOCATION OF FIRE HYDRANTS AND CURB BOXES ARE SHOWN ON THE DRAWINGS. HYDRANTS AND CURB BOXES SHALL BE LOCATED IN THE FIELD BY THE WATER DEPARTMENT PRIOR TO CONSTRUCTING THE WATER MAIN, DUE TO FUTURE ROAD RECONSTRUCTION WHICH SHALL RESULT IN THE RELOCATION OF EXISTING CURB AND CHANGES IN THE GRADE. THE WATER DEPARTMENT SHALL PROVIDE THE FINISHED GRADE ELEVATION FOR SETTING THE HYDRANT AND VALVE BOX.

8. ANY EXISTING FIRE HYDRANTS TO BE REMOVED SHALL BE DELIVERED TO THE WATER DEPARTMENT YARD.

9. THE APPROXIMATE LOCATION OF WATER SERVICE CONNECTIONS IS SHOWN IN THE DRAWINGS; THE EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY OWNER.

10. CONSTRUCTION AND TRANSFER OF SERVICES SHALL ONLY BE PERFORMED AFTER THE MAIN HAS BEEN TESTED AND DISINFECTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THIS INCLUDES THE INSTALLATION OF SERVICE CORPORATIONS.

11. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL AND/OR MEP DRAWINGS FOR ACTUAL LOCATIONS OF ALL UTILITY ENTRANCES INCLUDING BUT NOT LIMITED TO DOMESTIC WATER SERVICE, FIRE WATER SERVICE, GAS, SANITARY, ELECTRIC, AND ETC.

12. THE MINIMUM EARTH COVER OVER ALL NEW WATER MAINS SHALL BE 4 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS. THE PIPE SHALL BE DUCTILE IRON, CEMENT LINED WITH RESTRAINED PUSH-ON JOINTS UNLESS OTHERWISE INDICATED. PIPE CLASSIFICATION FOR THE WATER MAINS SHALL BE CLASS 52. ALL FITTINGS SHALL BE DUCTILE IRON CEMENT LINED WITH MECHANICAL JOINTS. WATER CONTAINER GLANDS SHALL BE CLASS 350 UNLESS OTHERWISE INDICATED ON DRAWINGS OR REQUIRED BY THE ENGINEER. ALL PIPE AND FITTINGS SHALL BE POLYETHYLENE ENCLOSED.

13. THE MINIMUM EARTH COVER OVER ALL OTHER UTILITIES IS TO BE 2 FEET UNLESS OTHERWISE INDICATED ON DRAWINGS.

14. WHERE EXISTING MAINS ARE TO BE ABANDONED IN PLACE, ALL OPENINGS FROM CUT PORTIONS SHALL BE COMPLETELY SEALED WITH NON-SHRINK QUICK-SETTING CEMENT, AS APPROVED BY THE ENGINEER DO NOT BACKFILL UNTIL THE CEMENT IS CURED.

15. INSTALLATION OF NEW COPPER SERVICES SHALL BE PERFORMED BY OPEN TRENCH EXCAVATION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DRAWINGS. THE EMPLOYMENT OF ALTERNATIVE METHODS SHALL NOT BE PERMITTED.

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BRACING OF EXISTING UTILITIES AS MAY BE REQUIRED TO PREVENT DAMAGE DUE TO CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL ARRANGE FOR PROPER BRACING OF ALL EXISTING UTILITIES, UTILITY POLES, AND OTHER STRUCTURES WITHIN THE VICINITY OF THE WORK WHICH MAY BE AFFECTED BY THEIR OPERATIONS. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE VARIOUS UNIT PRICES BID FOR THE CONTRACT WORK.

17. WORK PERFORMED ON COUNTY ROADS SHALL BE LIMITED TO THE HOURS OF 9:00 A.M. TO 4:00 P.M. UNLESS OTHERWISE PERMITTED BY THE COUNTY.

18. ALL UTILITIES TO BE ABANDONED SHALL BE ABANDONED IN THE STREET ACCORDING TO ALL APPLICABLE CODES.

1. DISCONNECTION OF EXISTING UTILITY SERVICES SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH THE REGULATIONS OF THE UTILITY AUTHORITY CONCERNED. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH WRITTEN CONFIRMATION FROM UTILITY COMPANIES THAT ALL SERVICE TO THE SITE HAS BEEN TERMINATED PRIOR TO CAPPING, ABANDONMENT, OR REMOVAL OF ANY SUCH UTILITIES.

2. EXISTING BUILDINGS, STRUCTURES, CURBS, UTILITIES, SIGNS, LANDSCAPING, AND ANY OTHER IMPROVEMENTS NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE. SHOULD DAMAGES OCCUR, THE OWNER SHALL BE NOTIFIED IMMEDIATELY, AND REPAIRS SHALL BE MADE TO MATCH EXISTING CONDITIONS AT THE CONTRACTOR'S EXPENSE.


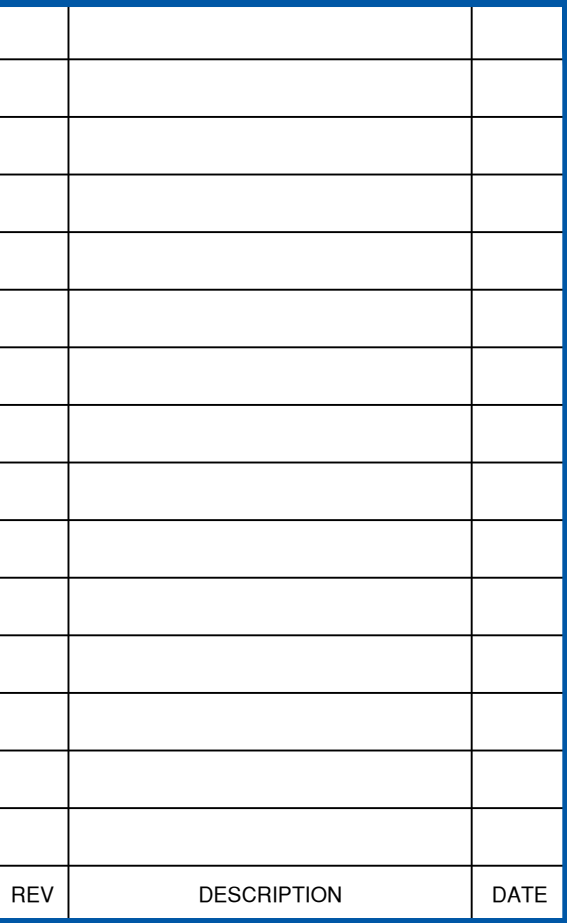
3. ALL CONCRETE, CMU, PAVER, AND BRICK MATERIAL DESIGNATED FOR DEMOLITION SHALL BE COMPLETELY REMOVED FROM THE SITE. INCLUDING, BUT NOT LIMITED TO, SLABS, FLOORS, BARRIERS, CURBS, AND SIDEWALKS.

4. WALLS, BEAMS, COLUMNS, FLOOR, SLABS, PAVEMENTS, RAMPS, FOOTINGS, AND ALL OTHER BUILDING COMPONENTS OR APPURTENANCES DESIGNATED FOR REMOVAL SHALL BE COMPLETELY REMOVED FROM THE SITE. THE RESULTING DEPRESSIONS SHALL BE FILLED AND COMPACTED AS DIRECTED, USING ONLY SUITABLE MATERIAL FROM ON-SITE MATERIAL OR APPROVED MATERIAL FROM OFF-SITE. NO DEBRIS FROM DEMOLITION OR OTHER UNSUITABLE MATERIAL SHALL BE USED. IN SPECIAL CASES, DEEP-SEATED CONCRETE OR MASONRY STRUCTURES WHICH SHALL NOT INTERFERE WITH SUBSEQUENT CONSTRUCTION MAY REMAIN IN PLACE IF SO APPROVED BY THE OWNER'S ENGINEER.

5. FOLLOWING THE DEMOLITION AND REMOVAL OF ALL IMPROVEMENTS SO DESIGNATED, THE DISTURBED AREA SHALL BE GRADED, AS DIRECTED BY THE OWNER'S ENGINEER, SO THAT THE RESULTING LANDFORM SHALL NOT ALLOW FOR PONDING OR THE FORMATION OF GULLIES RESULTING FROM STORMWATER RUN-OFF.

6. CONTRACTOR SHALL SECURE ALL PERMITS REQUIRED FOR WORK. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL OF ALL MATERIAL.

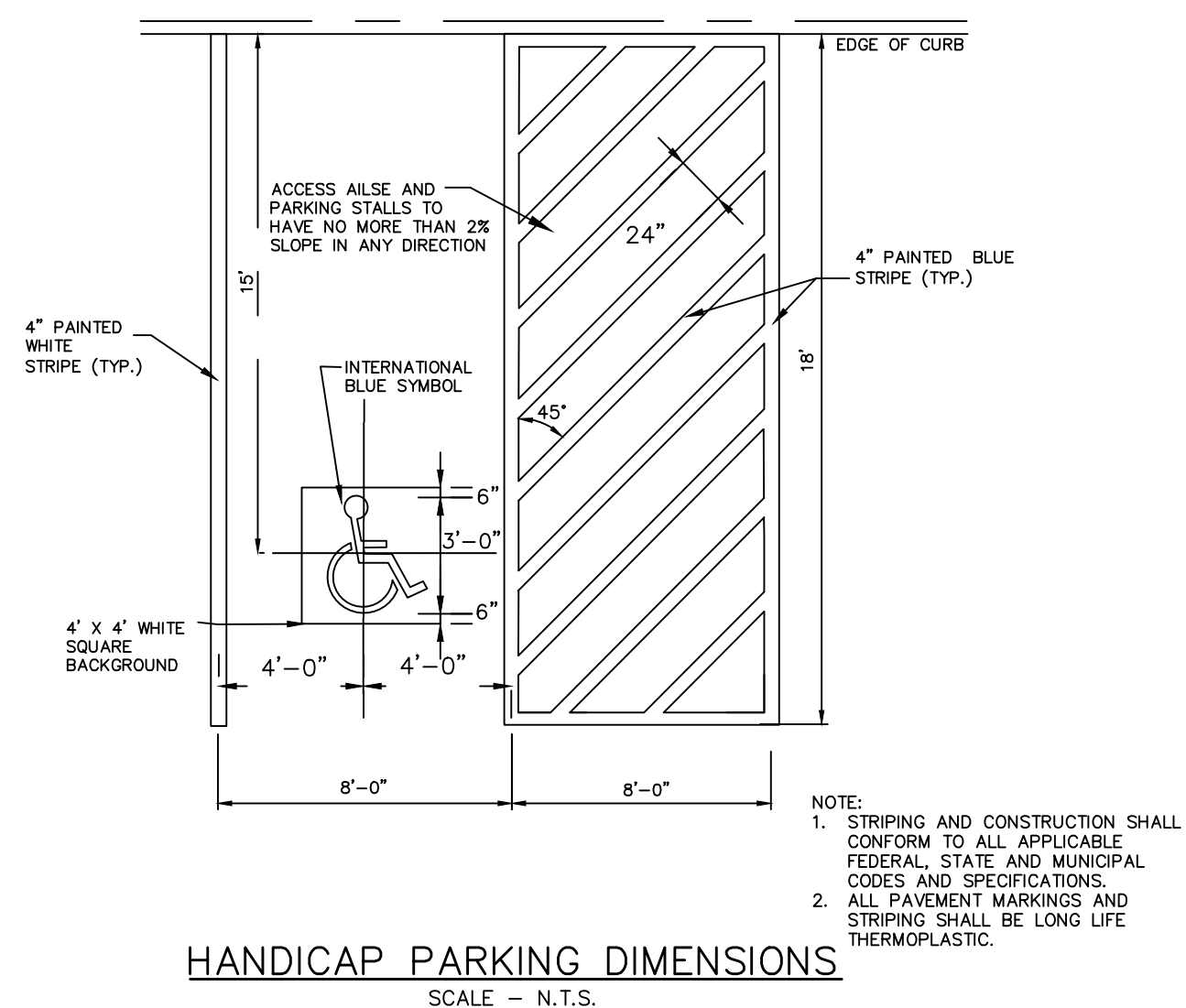
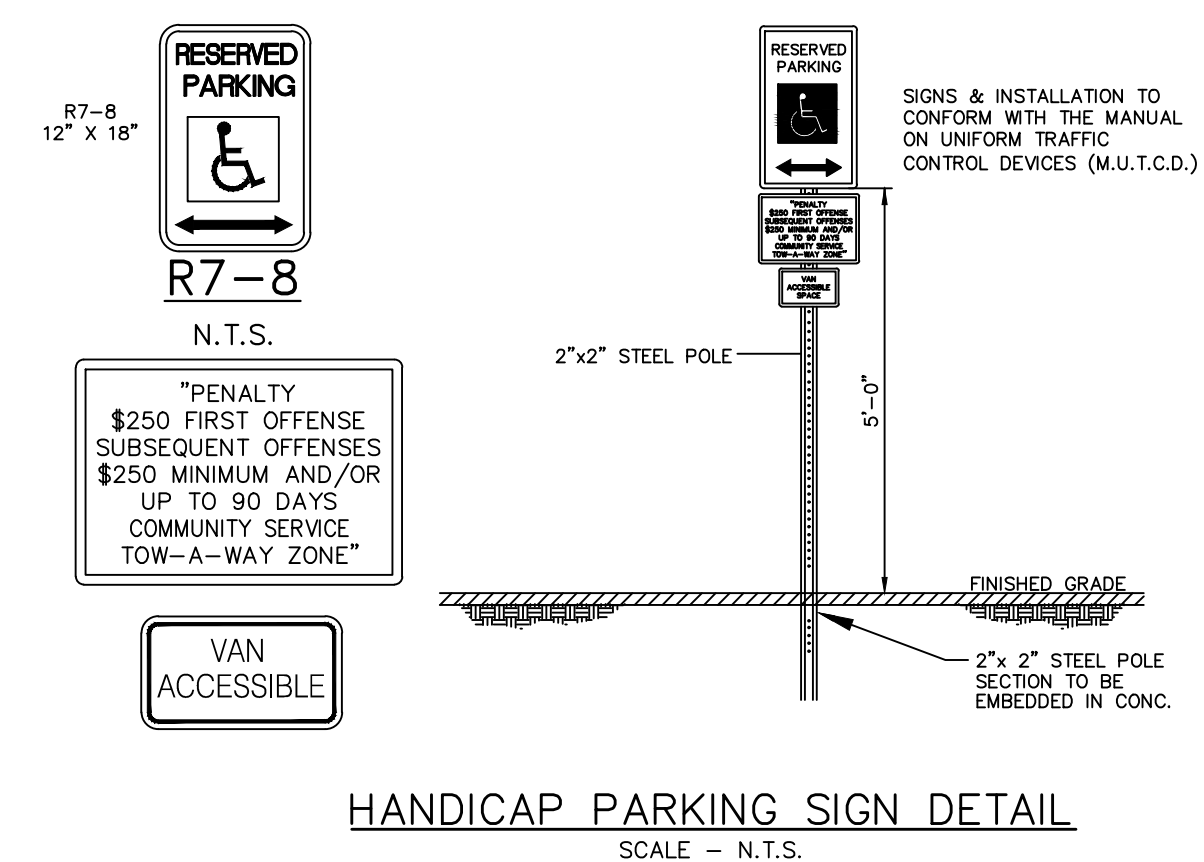
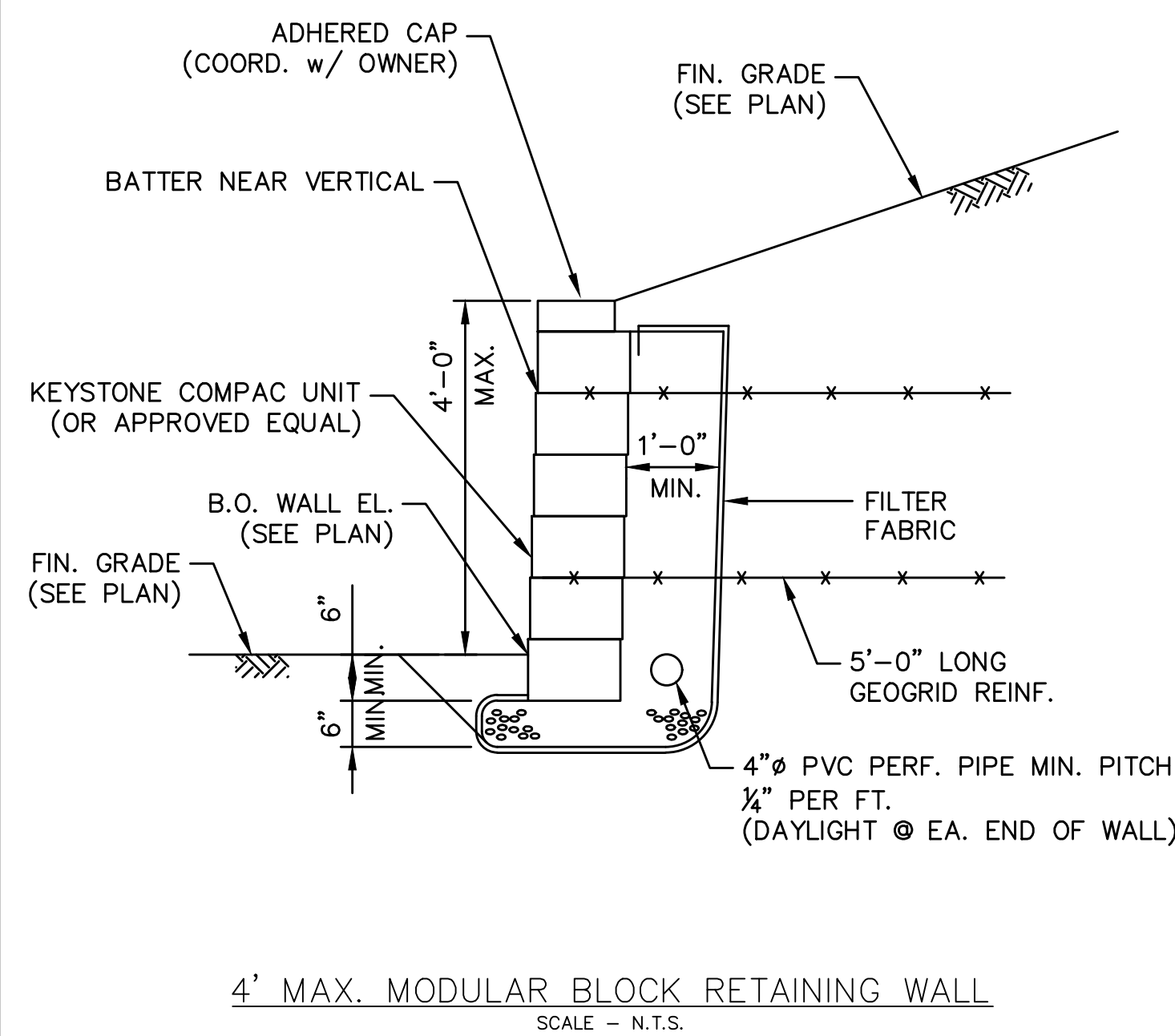
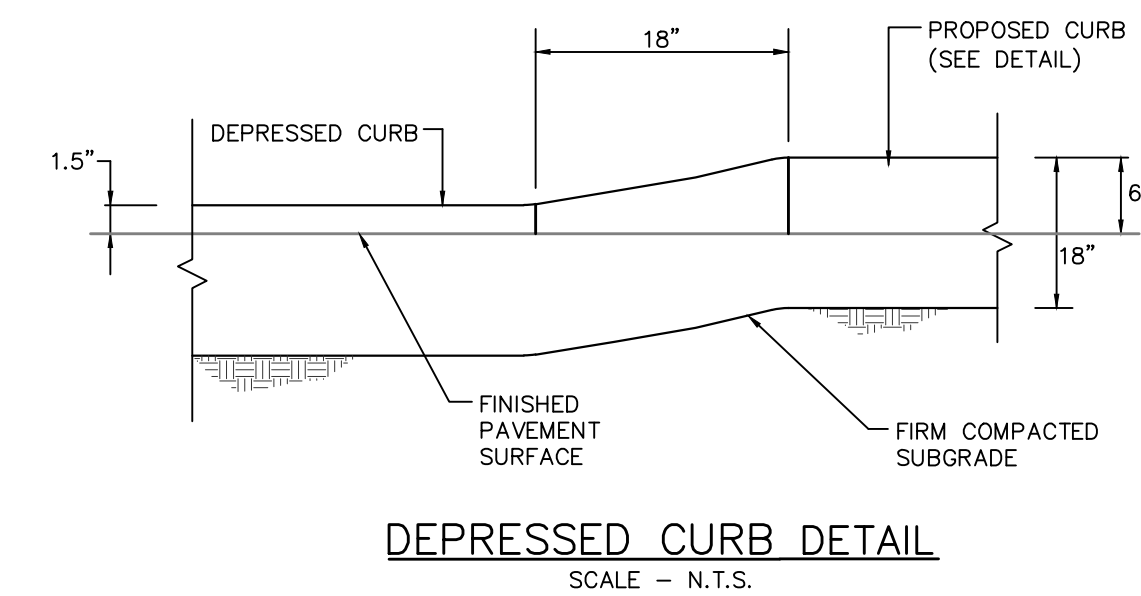
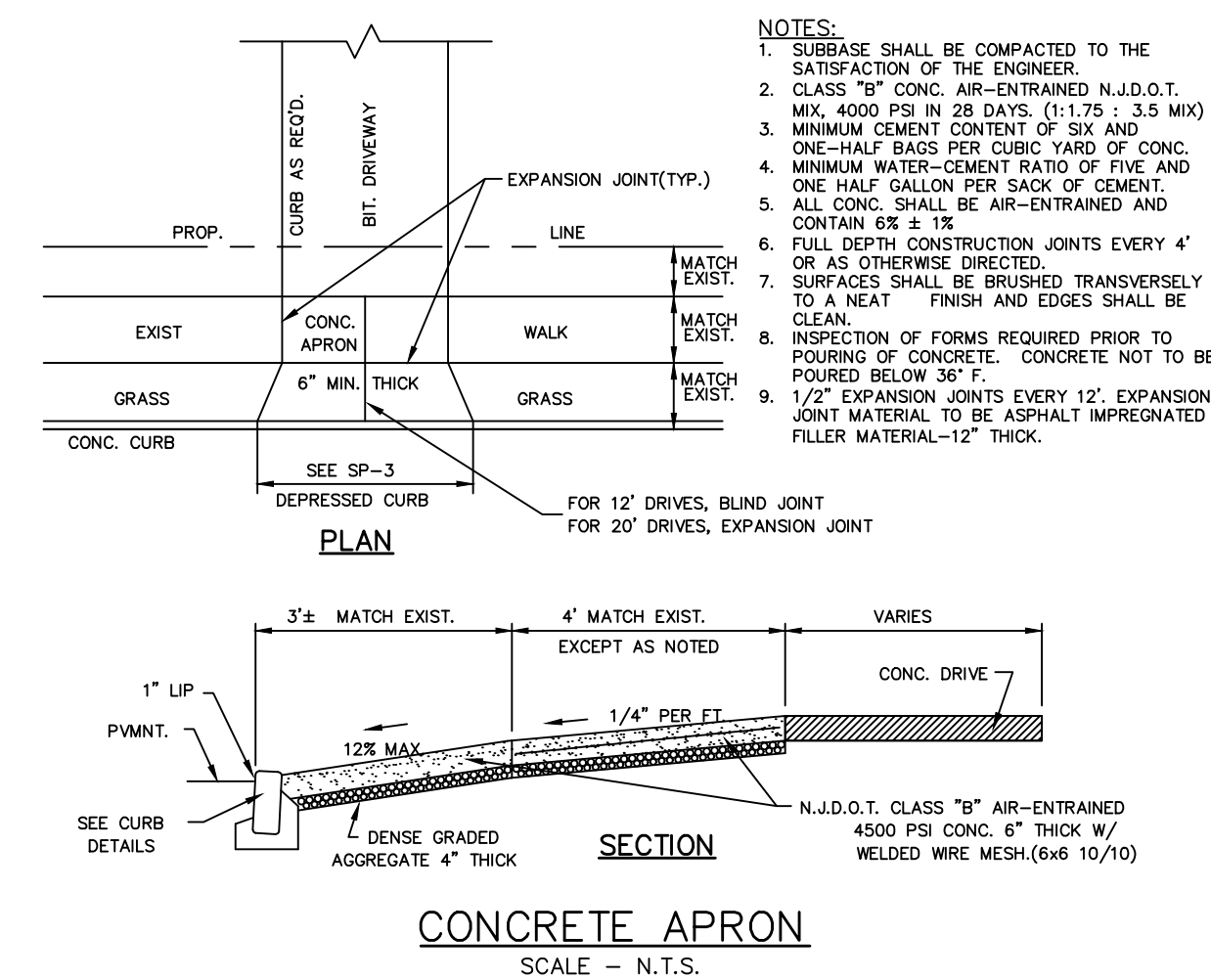
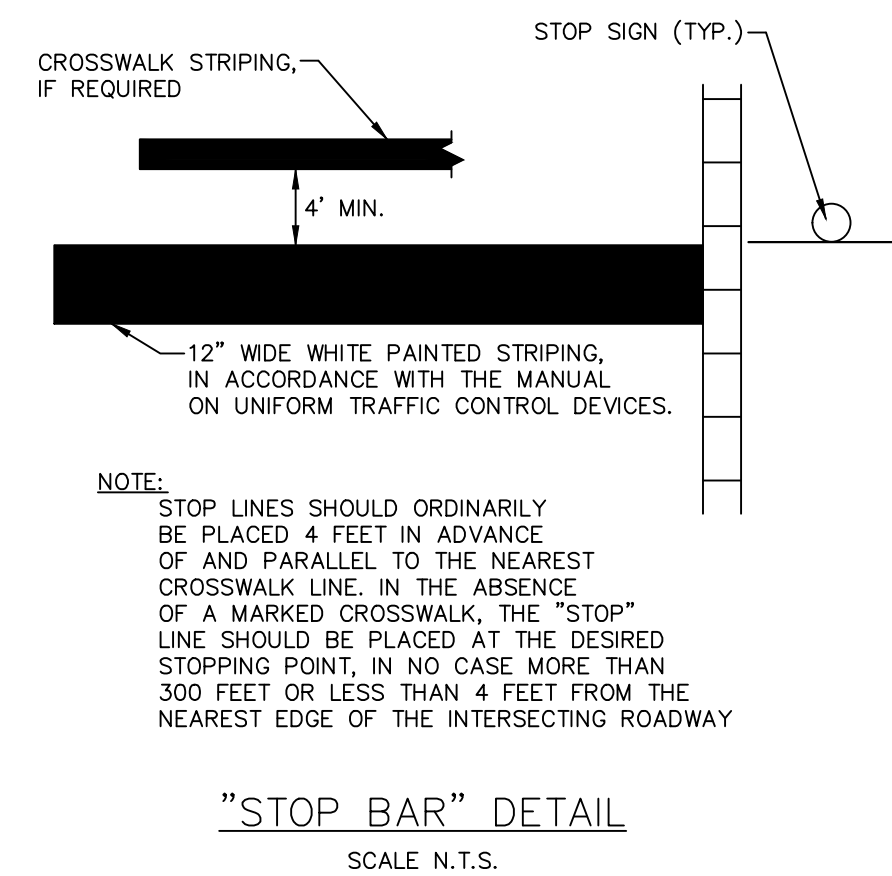
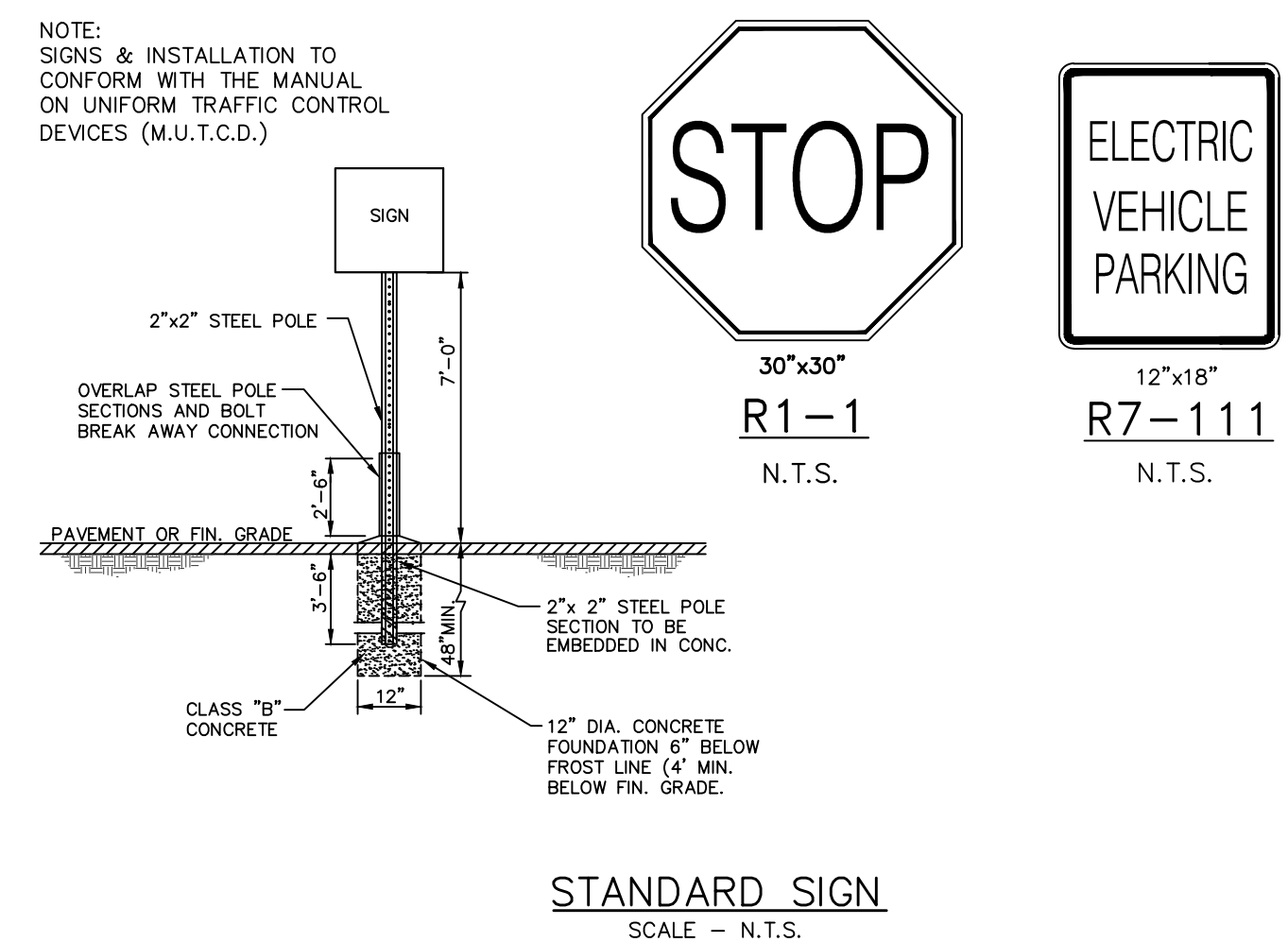
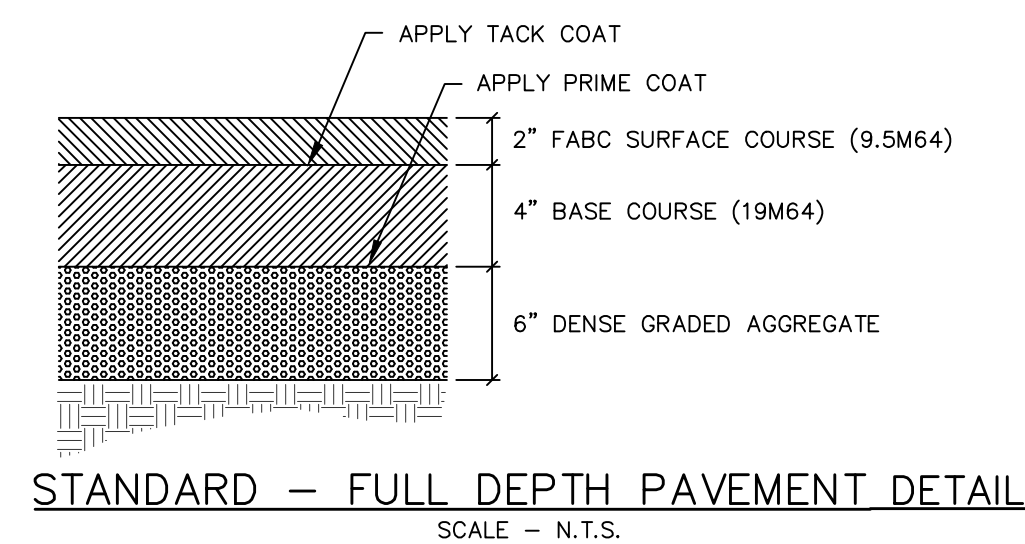
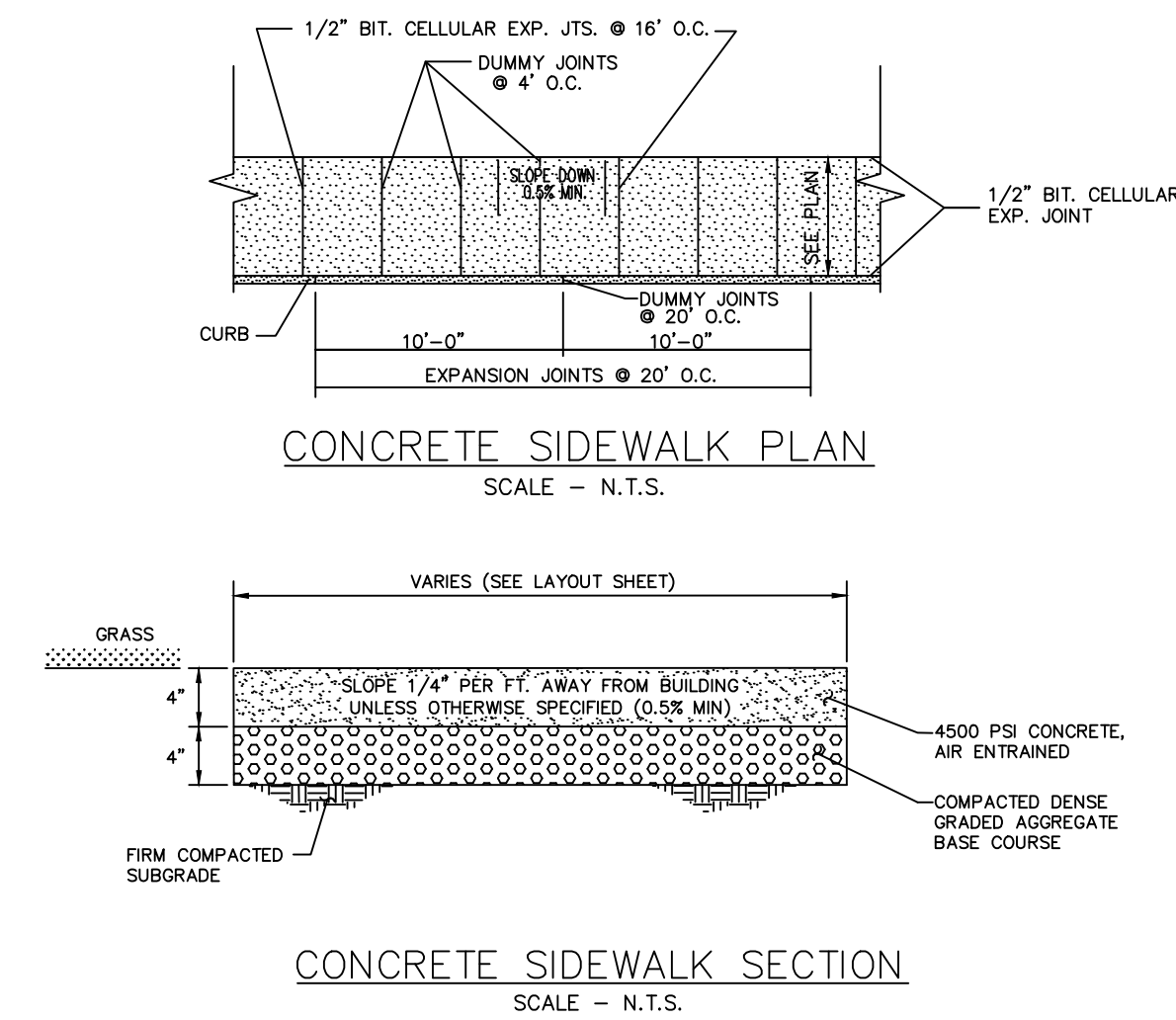
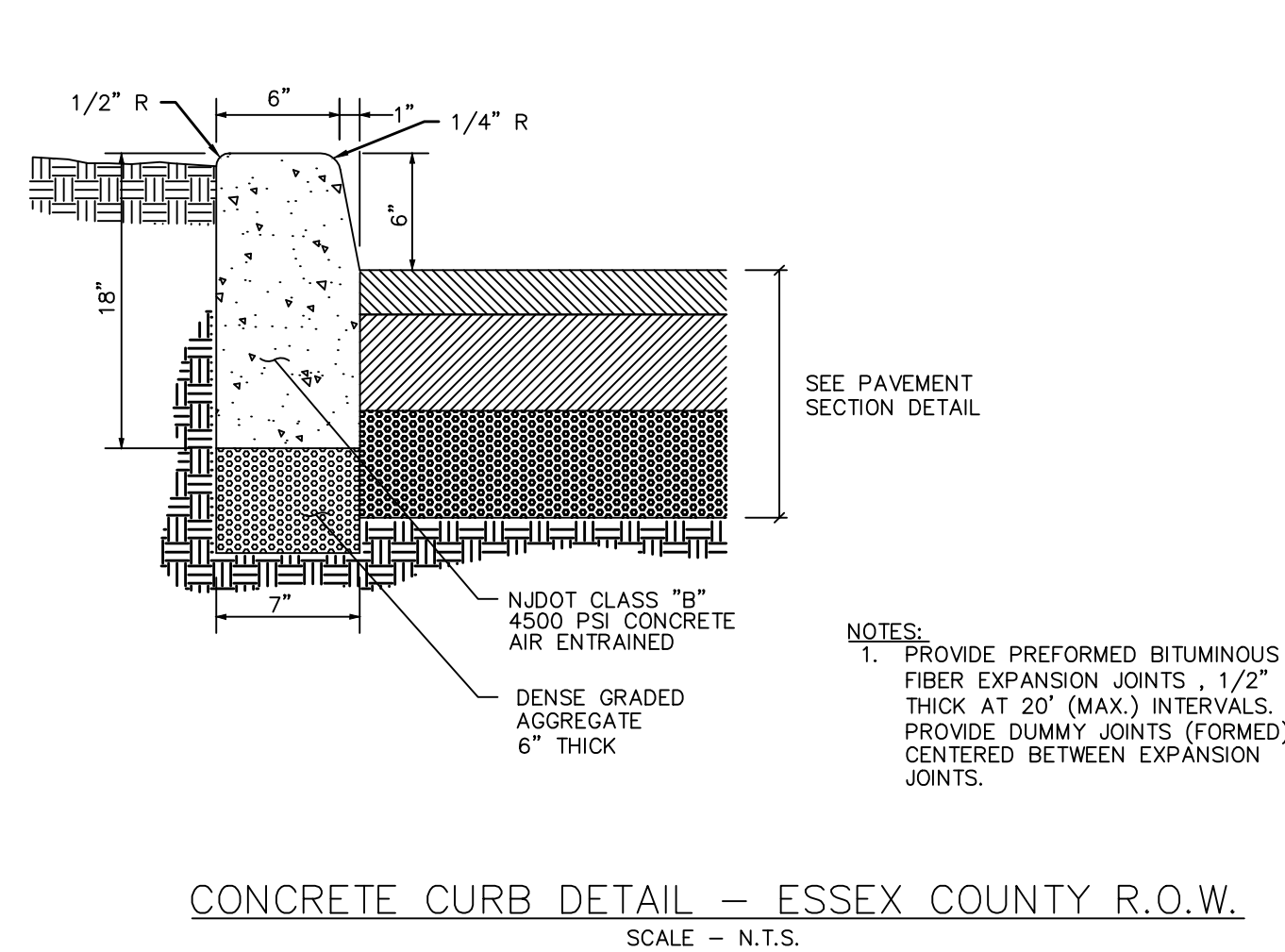
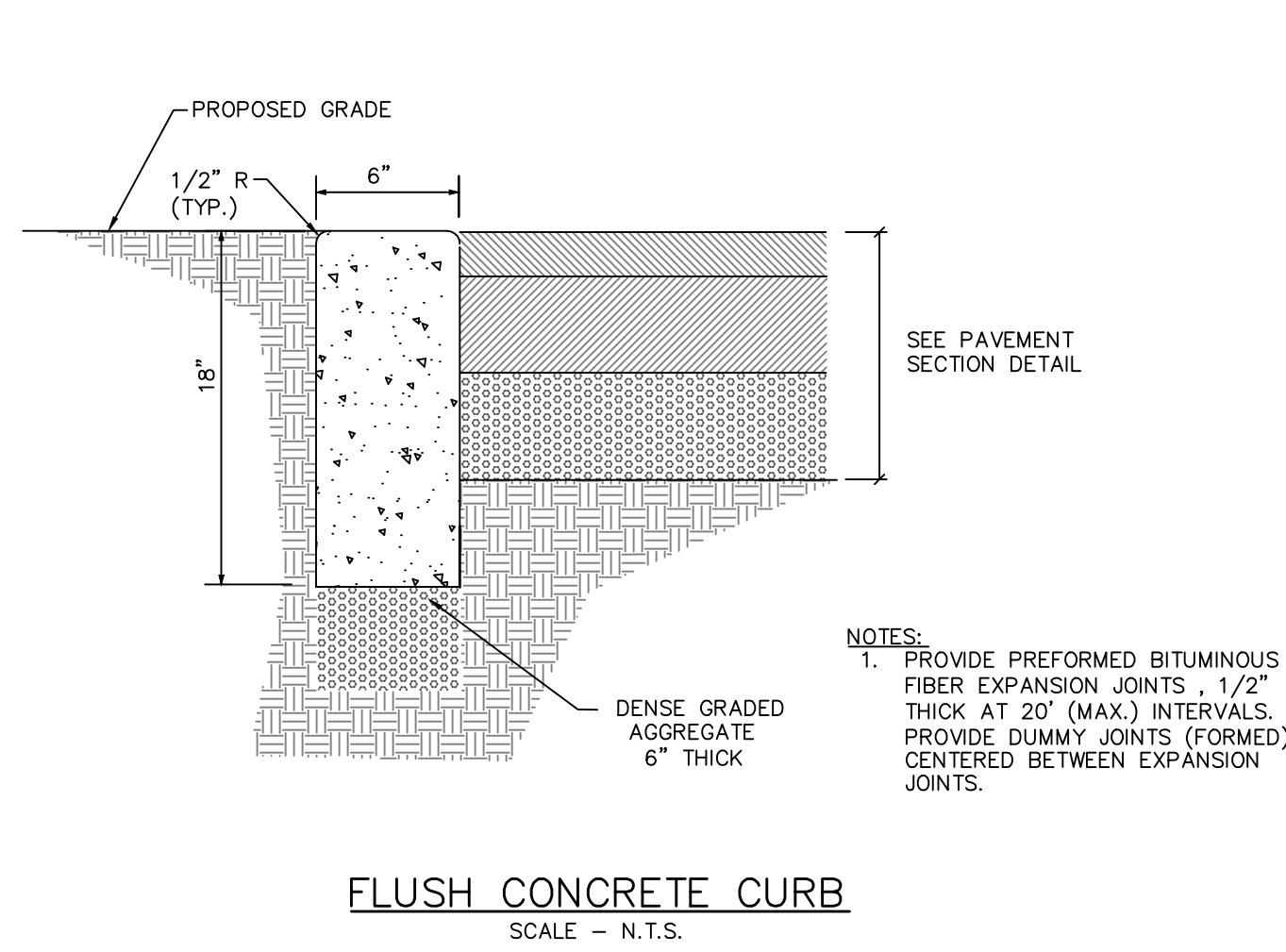
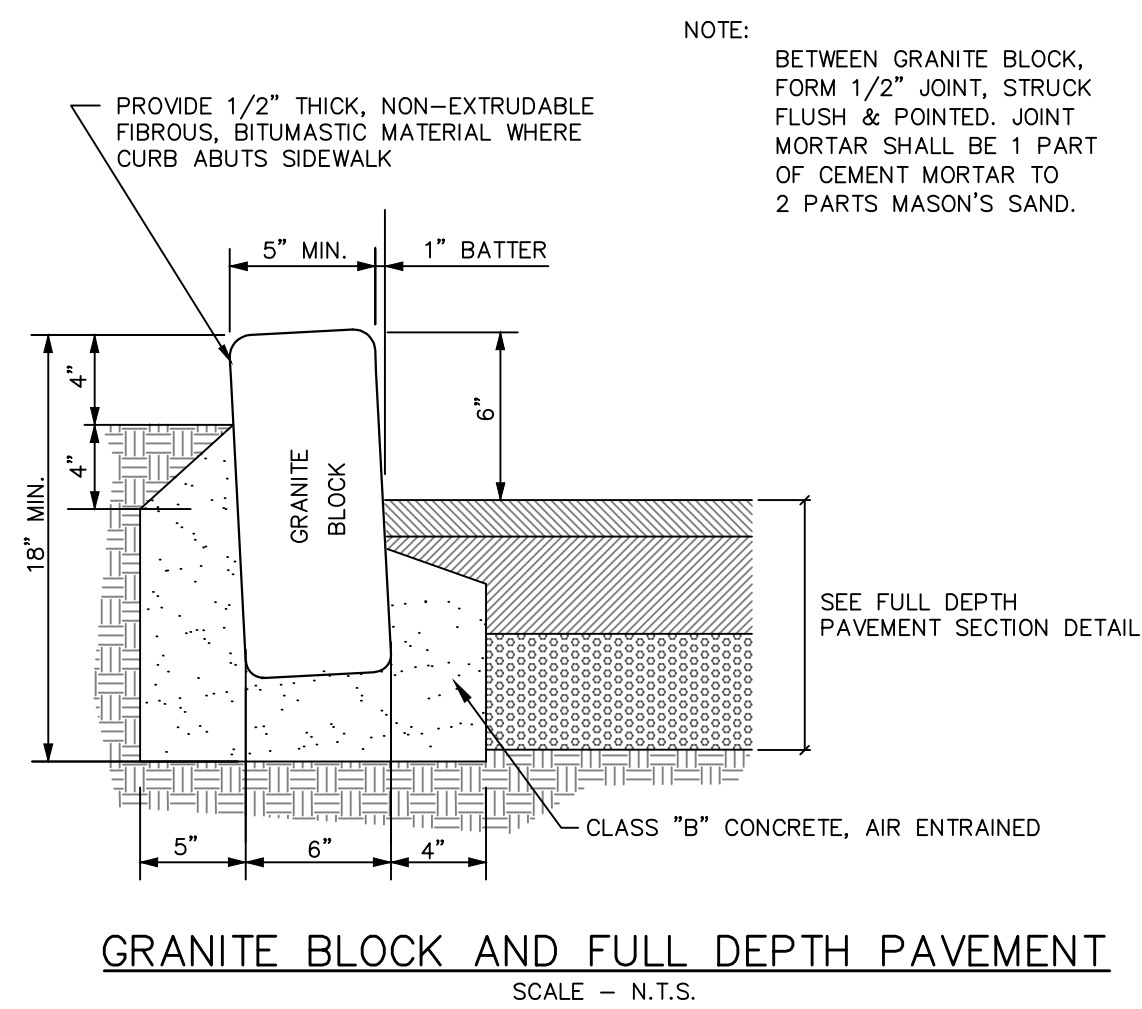
7. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE REMOVAL OF ANY EXISTING SITE LIGHTING WITH THE APPROPRIATE UTILITY COMPANY. LIGHT POLES SHALL BE REMOVED AND DISPOSED OF AS REQUIRED.



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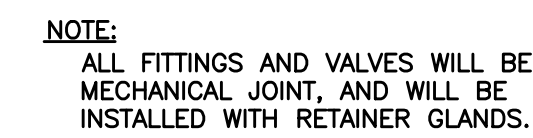
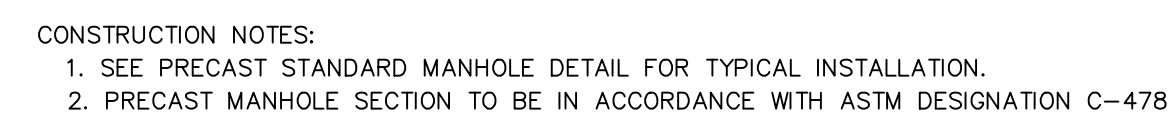
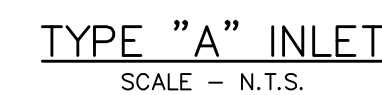
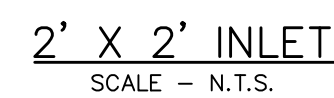
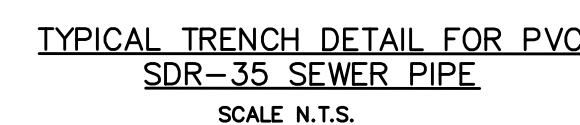
TITLE:	
GENERAL NOTES	
PROJECT #:	SHEET:
25-250	SP-8.1



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J. MICHAEL PETRY-PE, PP, RA
NJ PROFESSIONAL ENGINEER LIC. No. 36662
DATE: 10/06/2025

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PREPARED FOR
MOHAMMAD ABBASI
BLOCK 1702, LOT 22
21-25 GROVE AVENUE
TOWNSHIP OF VERONA
ESSEX COUNTY, NEW JERSEY

TITLE:

CONSTRUCTION
DETAILS

PROJECT #:

25-250

SHEET:

SP-8.3

