

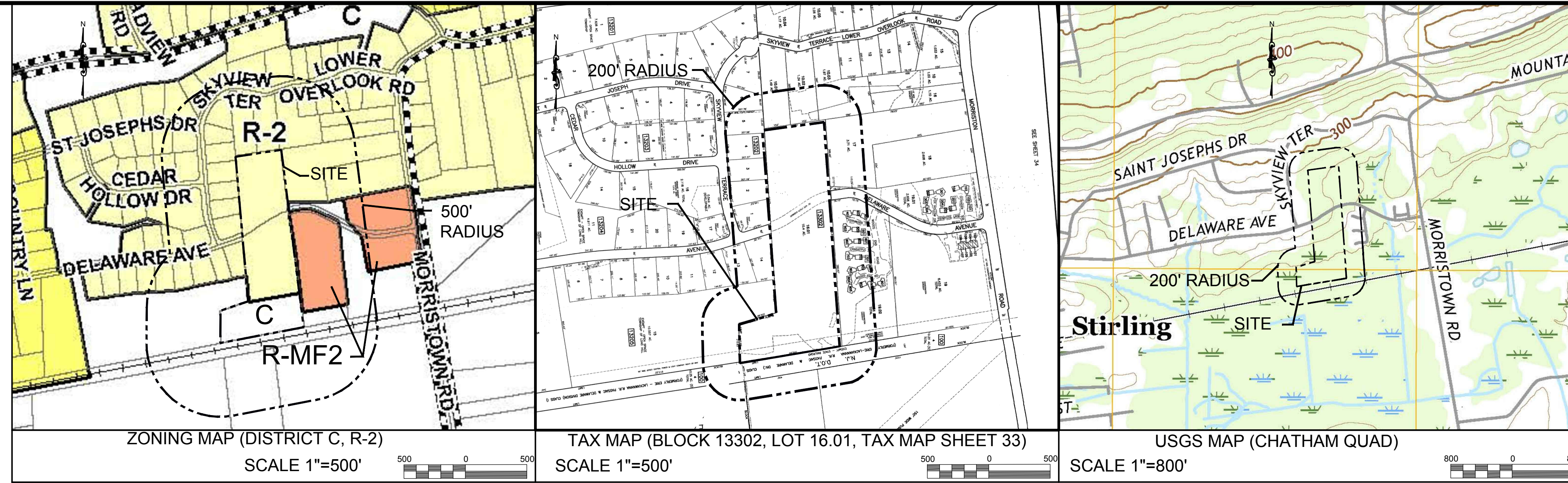
CERTIFICATIONS/APPROVALS

MUNICIPALITY
THIS PLAN IS HEREBY APPROVED BY THE PLANNING BOARD OF THE TOWNSHIP OF LONG HILL, MORRIS COUNTY

DATE _____ BOARD CHAIRMAN
DATE _____ BOARD SECRETARY
DATE _____ BOARD ENGINEER

I HEREBY CERTIFY THAT I AM THE PRESENT OWNER OF THE REFERENCED PROPERTY AND THAT I CONSENT TO THE FILING OF THIS MAJOR SUBDIVISION PLAN WITH THE BOARD OF ADJUSTMENT OF THE TOWNSHIP OF LONG HILL.

DATE _____ MARIO PARISI, SR.



GENERAL NOTES:

- OWNER/APPLICANT: MARIO PARISI, SR. 8 LOWER OVERLOOK DRIVE GILLETTE, NJ 07933 PHONE #: 973-714-2289
- BOUNDARY INFORMATION SHOWN HEREON WAS TAKEN FROM A PLAN ENTITLED "PARISI-GILLETTE, DELAWARE AVE, BLOCK 13302, LOT 16.01, BOUNDARY AND TOPOGRAPHIC SURVEY", PREPARED BY ENGINEERING AND LAND PLANNING ASSOCIATES, DATED 09/11/17.
- THESE PLANS ARE NOT TO BE USED AS SURVEYS. REFER TO REFERENCE SOURCES FOR BOUNDARY AND TOPOGRAPHIC INFORMATION (NOTE # 2 ABOVE).
- ALL ELEVATIONS GIVEN ARE ON NAVD88.
- THE SUBJECT PARCEL, BLOCK 13302, LOT 16.01, CONSISTS OF 454,566 S.F. (10.435 ACRES).

NOTES:

- SEE ENGINEERING DETAIL SHEETS FOR ALL SITE DETAILS AND SUPPORTING NOTES.
- THIS SET OF PLANS HAS BEEN PREPARED FOR THE PURPOSES OF MUNICIPAL AND AGENCY APPROVAL. THIS SET OF PLANS SHALL NOT BE UTILIZED FOR CONSTRUCTION DOCUMENTS UNTIL ALL CONDITIONS OF APPROVAL HAVE BEEN SATISFIED ON THE DRAWINGS AND EACH DRAWING HAS BEEN MARKED "ISSUED FOR CONSTRUCTION."
- THE LOCATION, TYPE, LINE, SIZE, DEPTH, ETC. OF ALL EXISTING UTILITIES, ARE APPROXIMATE. LOCATION OF SERVICE LATERALS MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR AND AT HIS OWN EXPENSE PRIOR TO THE START OF CONSTRUCTION AND IN ACCORDANCE WITH PA ACT 287 OF 1974 AS AMENDED BY PA ACT 11 OF 2008, 73 P.S. 176 ET. SEQ..
- COMPLETE DESIGN INFORMATION FOR THE PROPOSED SEPTIC SYSTEMS SHALL BE PROVIDED TO THE APPROPRIATE AGENCIES AS A CONDITION OF APPROVAL. ALL PROPOSED SYSTEMS SHALL BE APPROVED BY THE HEALTH DEPARTMENT AND/OR OTHER GOVERNING AGENCIES BEFORE INDIVIDUAL CERTIFICATES OF OCCUPANCY CAN BE ISSUED FOR RESPECTIVE RESIDENCES

VARIANCES:

- | | | |
|----|--------------|---------------------------------|
| 1. | 124.12 (B) | LOT SIZE |
| 2. | 124.12 (B)-4 | OPEN SPACE LOT SIZE |
| 3. | 124.12 (B)-5 | AVERAGE LOT SIZE |
| 4. | 124.12 (C)-1 | MODIFIED FRONT YARD SETBACK |
| 5. | 142.1 (B) | LOT SIZE FOR CRITICAL AREAS |
| 6. | 142.1 (D) | CRITICAL AREA BUILDING SETBACKS |

BULK REQUIREMENTS

ITEM	REQUIRED	REQUIRED	PROP. REQUIREMENTS	EX. LOT 16.01	EX. LOT 16.01	PROP. LOT 1	PROP. LOT 2	PROP. LOT 3	PROP. LOT 4	PROP. LOT 5	PROP. LOT 6	PROP. LOT 7	PROP. LOT 8	PROP. LOT 9
ZONING DISTRICT	C	R2		C	R2	R2	R2	R2	R2	R2	R2	R2	R2	R2/C
MINIMUM LOT AREA	3 AC.	45,000 S.F.	21,500 S.F. (V)	2.86 AC.	322,976 S.F.	28,618 S.F.	25,533 S.F.	22,823 S.F.	24,092 S.F.	23,055 S.F.	30,433 S.F.	26,304 S.F.	23,504 S.F.	209,895 S.F.
MIN. LOT WIDTH	250 FT.	150 FT.	100 FT. (V)	> 250 FT.	> 150 FT.	106.92 FT	116.42 FT	107.60 FT	145.93 FT	192.40 FT	102.63 FT	111.98 FT	128.94 FT	34.96 (V)
MIN. FRONT YARD	75 FT.	75 FT.	30 FT. (V)	N/A	N/A	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	N/A
MIN. REAR YARD	50 FT.	50 FT.	35 FT. (V)	N/A	N/A	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	N/A
MIN. SIDE YARD	25 FT.	25 FT.	25 FT.	N/A	N/A	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	N/A
MAXIMUM LOT COVERAGE (%)	15%	20%		0%	0%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 15%
MINIMUM FLOOR AREA	1,500 S.F.	1,500 S.F.	1,500 S.F.	N/A	N/A	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	N/A
FLOOR AREA RATIO	N/A	15%		N/A	N/A	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	N/A
MAXIMUM BUILDING HEIGHT	35 FT/2.5 STY.	35 FT/2.5 STY.	35 FT/2.5 STY.	N/A	N/A	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	N/A

(N/A) INDICATES THAT ITEM IS NOT APPLICABLE
(V) INDICATES THAT A VARIANCE IS REQUESTED FOR THIS ITEM

PRELIMINARY AND FINAL MAJOR SUBDIVISION PLAN DELAWARE AVE
BLOCK 13302, LOT 16.01, TAX MAP SHEET 33
LONG HILL TOWNSHIP, MORRIS COUNTY, NEW JERSEY

PREPARED BY
ENGINEERING & LAND PLANNING ASSOCIATES, INC.
140 WEST MAIN STREET, HIGH BRIDGE, NEW JERSEY 08829

PLAN INDEX			
SHEET No.	TITLE	SHEET No.	TITLE
1	COVER SHEET	11-12	PLAN AND PROFILES
2	LEGEND AND NOTES	13-14	CROSS SECTIONS
3	SURVEY	15	LANDSCAPE PLAN
4	ENVIRONMENTAL CONSTRAINTS PLAN	16	LIGHTING PLAN
5	MAJOR SUBDIVISION PLAT	17	SESC PLAN
6	SITE PLAN	18	DRAINAGE AREA PLAN
7	UTILITIES PLAN	19	SESC DETAILS
8-10	GRADING PLAN	20-23	DETAILS

OUTSIDE AGENCY APPROVALS:

- MORRIS COUNTY PLANNING BOARD
- MORRIS COUNTY SOIL CONSERVATION DISTRICT
- N.J. DEPARTMENT OF ENVIRONMENTAL PROTECTION LETTER-OF-INTERPRETATION [APPROVED - 1430-18-0006.1]

BLOCK	LOT	PROPERTY OWNER ADDRESS	UTILITIES
13302	502	MARY N & PETER S WANG 35 FERNWOOD TERR	
13302	503	MARVIN J & SONDR L SHARE 23 FERNWOOD TERR	
13302	601	KHOUDIR MEDJANI 55 WOODS END RD	
13302	602	CAROL A PERSONICK 66 CRABAPPLE LANE	
13302	603	EMILIO & SARA POLLERA 78 CRABAPPLE LANE	
13302	701	MARCY M MC MANN 107 WOODS END	
13302	702	ALAN M & NANCY L CHURCHILL 93 CRABAPPLE LANE	
13302	703	MARIO J & MARIE R LAMIA 83 CRABAPPLE LANE	
13302	801	JAMES & MARY ANN CORCORAN 113 WOODS END	
13302	802	MARTIN ALLEN 122 WOODS END	
13302	803	SHIRLEY SEBOLD 128 WOODS END	
13302	804	ALICE NEVES TRUST & N PERLATA TRUST 135 WOODS END	
13302	805	JOAN B HOLMES TRUST 137 WOODS END	
13302	902	WANDA F DIEHL TRUST 153 WOODS END	
13302	903	WARREN BABBITT 145 WOODS END	
10100	4	NJ DEPT OF TRANS DIR COMMUTER SERVICE 1035 PARKWAY AVE TRENTON, NJ 08625	JCP&L 300 MADISON AVENUE PO BOX 1911 MORRISTOWN, NJ 07960
11301	1, 3 & 5	TOWNSHIP OF LONG HILL 915 VALLEY ROAD	PUBLIC SERVICE ELECTRIC & GAS CO MANAGER-CORPORATE PROPERTIES 80 PARK PLAZA, T6B NEWARK, NJ 07102
11401	5	TOWNSHIP OF LONG HILL 915 VALLEY ROAD	COMCAST CABLE COMMUNICATIONS 100 RANDOLPH ROAD SOMERSET, NJ 08873
13202	1	ELIE & ELIANA AZAR 32 SKYVIEW TERR STIRLING, NJ 07980	
13202	2	DANIEL V & ALEXANDRA M GALLANT 30 SKYVIEW TERR STIRLING, NJ 07980	
13202	3	PETER J & SUSAN M VELENTINI 26 SKYVIEW TERR STIRLING, NJ 07980	
13202	4	JAMES & ANGELICA MCKENNA 20 SKYVIEW TERR STIRLING, NJ 07980	
13202	5	FILIPPO & LAUREN GIAFAGLIONE 14 SKYVIEW TERR STIRLING, NJ 07980	
13202	6	DAVID & KATHLEEN FLAGSTAD 12 SKYVIEW TERR STIRLING, NJ 07980	
13202	7	XIAOYANG WU & YU CHEN 10 SKYVIEW TERR STIRLING, NJ 07980	
13205	13	CHRISTOPHER FISCHETTI & T MORTELLITO 39 DELAWARE AVE STIRLING, NJ 07980	
13205	14	JAMES J LAMIA 33 DELAWARE AVE STIRLING, NJ 07980	
13205	15	TOWNSHIP OF LONG HILL 915 VALLEY ROAD	
13302	10.01	MATTHEW & JENNIFER PARISI 1 SKYVIEW TERR STIRLING, NJ 07980	
13302	10.02	CHRISTOPHER J & NICOLE B FENELI 3 SKYVIEW TERR STIRLING, NJ 07980	
13302	10.03	INN SHIAN LIN & LI LIEN CHU 5 SKYVIEW TERR STIRLING, NJ 07980	
13302	17	CARLOS CORRALES & GERARDO MASIS 74 MORRISTOWN RD	
13302	19.01 & 19.02	CHESTNUT RUN HOME ASSOC % INTEGRA 200 VALLEY RD, SUITE 203 MT ARLINGTON, NJ 07856	
13302	401	RICHARD E & ELAINE C GEBIG 2 FERNWOOD TERR	
13302	402	DAVID & AVIVA ROSENBERG 8 FERNWOOD TERR	
13302	403	TIMOTHY & WENDY A SULLIVAN 18 FERNWOOD TERR	
13302	501	GARY A & BARBARA G SHERMAN 49 WOODS END	

140 WEST MAIN STREET HIGH BRIDGE, NJ 08829
PH. 908-238-0544 FAX. 908-238-9572
A PROFESSIONAL ASSOCIATION
CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

12/15/2020
DATE

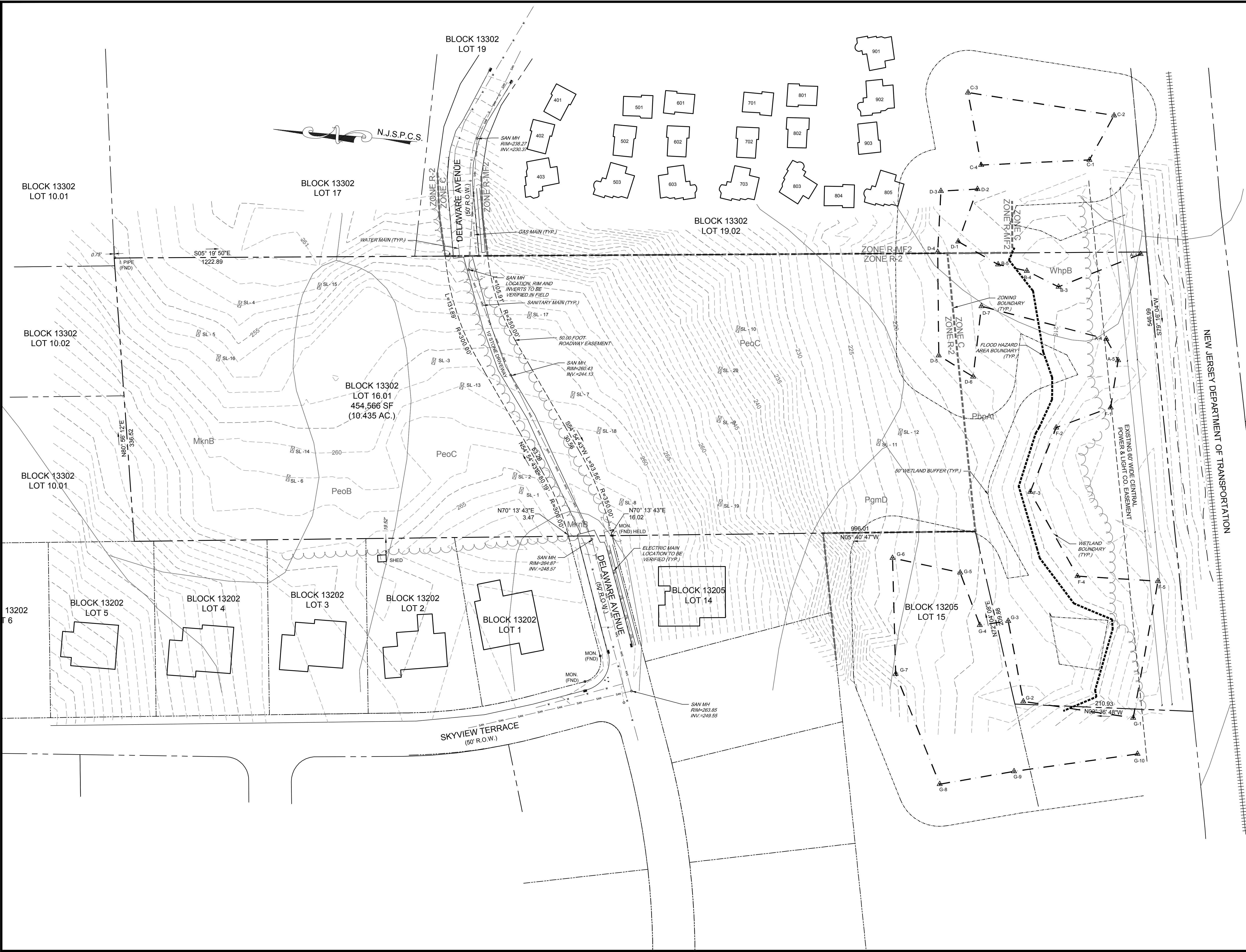
CHRISTOPHER NUSSER
PROFESSIONAL ENGINEER
N.J. P.E. NO. 24GE049025

PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI BLOCK 13302, LOT 16.01 DELAWARE AVENUE LONG HILL TOWNSHIP MORRIS COUNTY NEW JERSEY

TITLE: COVER SHEET

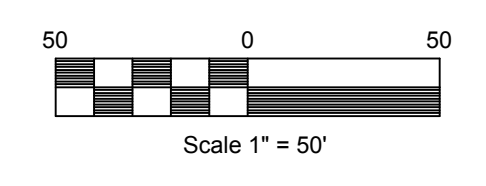
JOB NO.:	0115210	DRAWING NO.:	1 23
SCALE:	N.T.S.		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	01_COVER.DWG		
DATE:	09/22/2017		

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- GENERAL NOTES**
1. THIS PLAN REPRESENTS A SURVEY MADE ON THE GROUND.
 2. IF THIS PLAN DOES NOT CONTAIN AN ORIGINAL SIGNATURE AND IMPRESSION SEAL OF THE UNDERSIGNED LICENSED LAND SURVEYOR IT IS NOT AN AUTHENTIC COPY AND MAY HAVE BEEN ALTERED.
 3. R.O.W. LINES AND ADJOINING PROPERTY LINES SHOWN HEREON WERE TAKEN FROM THE TAX MAPS FOR THIS MUNICIPALITY.
 4. THIS SURVEY IS SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, WRITTEN AND UNWRITTEN.
 5. THIS SURVEY MAKES NO REPRESENTATION TO THE LOCATION OF ANY SUB-SURFACE UTILITIES OR STRUCTURES THAT WERE NOT VISIBLE AT THE TIME OF THIS SURVEY.
 6. A WRITTEN WAIVER AND DIRECTION NOT TO SET CORNER MARKERS HAS BEEN OBTAINED FROM THE ULTIMATE USER PURSUANT TO P.L. 2003, C.14 N.J.S.A. C40:9-36.3 AND N.J.A.C. 17:40-5.10(i).
 7. THIS LAND SURVEY IS PREPARED FOR THE BENEFIT OF THE PARTIES LISTED AND IS NOT PREPARED FOR OR CERTIFIED TO SUBSEQUENT PARTIES.
 8. HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON NAD 1983 DATUM ESTABLISHED BY STATIC G.P.S. OBSERVATIONS AND POST-PROCESSED USING THE NATIONAL GEODETIC SURVEY (N.G.S.) ON-LINE POSITIONING USER SERVICE (O.P.U.S.) RAPID STATIC.
 9. VERTICAL CONTROL FOR THIS PROJECT IS BASED ON NAVD 1988 DATUM ESTABLISHED BY STATIC G.P.S. OBSERVATIONS AND POST-PROCESSED USING THE NATIONAL GEODETIC SURVEY (N.G.S.) ON-LINE POSITIONING USER SERVICE (O.P.U.S.) RAPID STATIC.
 10. VERTICAL DATUM SHIFT (NAVD 1988 MINUS NAVD 1929) = 0.919 FEET. CONVERSION FACTOR DETERMINED FROM NATIONAL GEODETIC SURVEY - NOAA ONLINE CONVERSION PROGRAM VERTCON.
CONVERSION EXAMPLE:
LATITUDE: 40.42.9
LONGITUDE: 074.29.93
NAVD 88 HEIGHT: 268.26 FT
DATUM SHIFT (NAVD 88 MINUS NAVD 29) = 0.919 FEET
CONVERTED TO NAVD 29 HEIGHT: 269.19 FEET

- REFERENCE:**
1. A DEED FILED IN THE MORRIS COUNTY CLERKS OFFICE AS D83847, P.314.
 2. FINAL MAP, SECTION II, STIRLING AT LONG HILL, PREPARED BY MURPHY & HOLLOWAY, C.E. AND SURVEYED, DATED MAY 10, 1993 LAST REVISED JULY 1, 1993 AND FILED IN THE MORRIS COUNTY CLERKS OFFICE AS MAP#95037.
 3. NJ DEPARTMENT OF ENVIRONMENTAL PROTECTION LETTER OF INTERPRETATION FILE NO. 1430-19-0006-1, ACTIVITY NO. FWH180001, APPROVAL DATE OF 09/13/2019.



140 WEST MAIN STREET HIGH BRIDGE, NJ 08829
PH. 908-238-0544 FAX. 908-238-9572
A PROFESSIONAL ASSOCIATION
CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

12/15/2020
DATE

WAYNE J. INGRAM
PROFESSIONAL ENGINEER AND LAND SURVEYOR
N.J. P.E. & P.L.S. NO. 24GB04258200

PROJECT:
MAJOR SUBDIVISION PLAN
FOR MARIO PARISI
BLOCK 13302, LOT 16.01
DELAWARE AVENUE
LONG HILL TOWNSHIP

MORRIS COUNTY NEW JERSEY

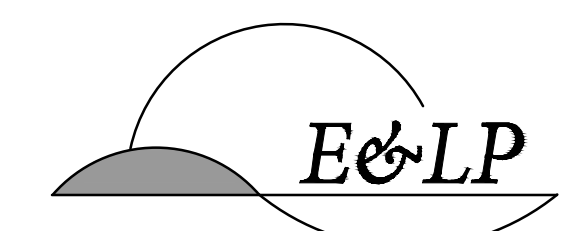
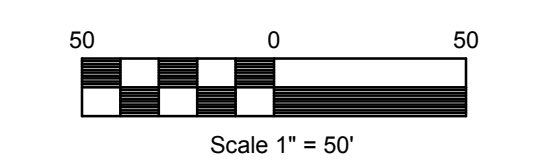
TITLE:
**BOUNDARY AND
TOPOGRAPHIC SURVEY**

JOB NO.:	0115210	DRAWING NO.:	3 23
SCALE:	1"=50'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	03_SURVEY.DWG		
DATE:	9/11/2017		

NOTES:
 1. THE FLOOD HAZARD AREA LIMIT FOR THE PROJECT SITE WAS DETERMINED USING FEMA'S FLOOD INSURANCE RATE MAP OF LONG HILL, NEW JERSEY, MORRIS COUNTY, PANEL NUMBER 340356 0005 B, DATED SEPTEMBER 21, 2001. ONE FOOT WAS ADDED TO THE MAP'S LISTED FLOOD HAZARD AREA DESIGN FLOOD ELEVATION OF 214 FT (NAVD88).

CRITICAL AREA

CRITICAL AREAS	AREA (EXCLUSIVE)
SLOPE	24,827 SF
SLOPE BUFFER	72,569 SF
WETLANDS	60,115 SF
WETLANDS BUFFER	61,487 SF
FLOOD HAZARD AREA	1,039 SF
TOTAL CRITICAL AREA	220,037 SF
DISTURBED CRITICAL AREA	57,127 SF



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2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

DATE: 12/15/2020
 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

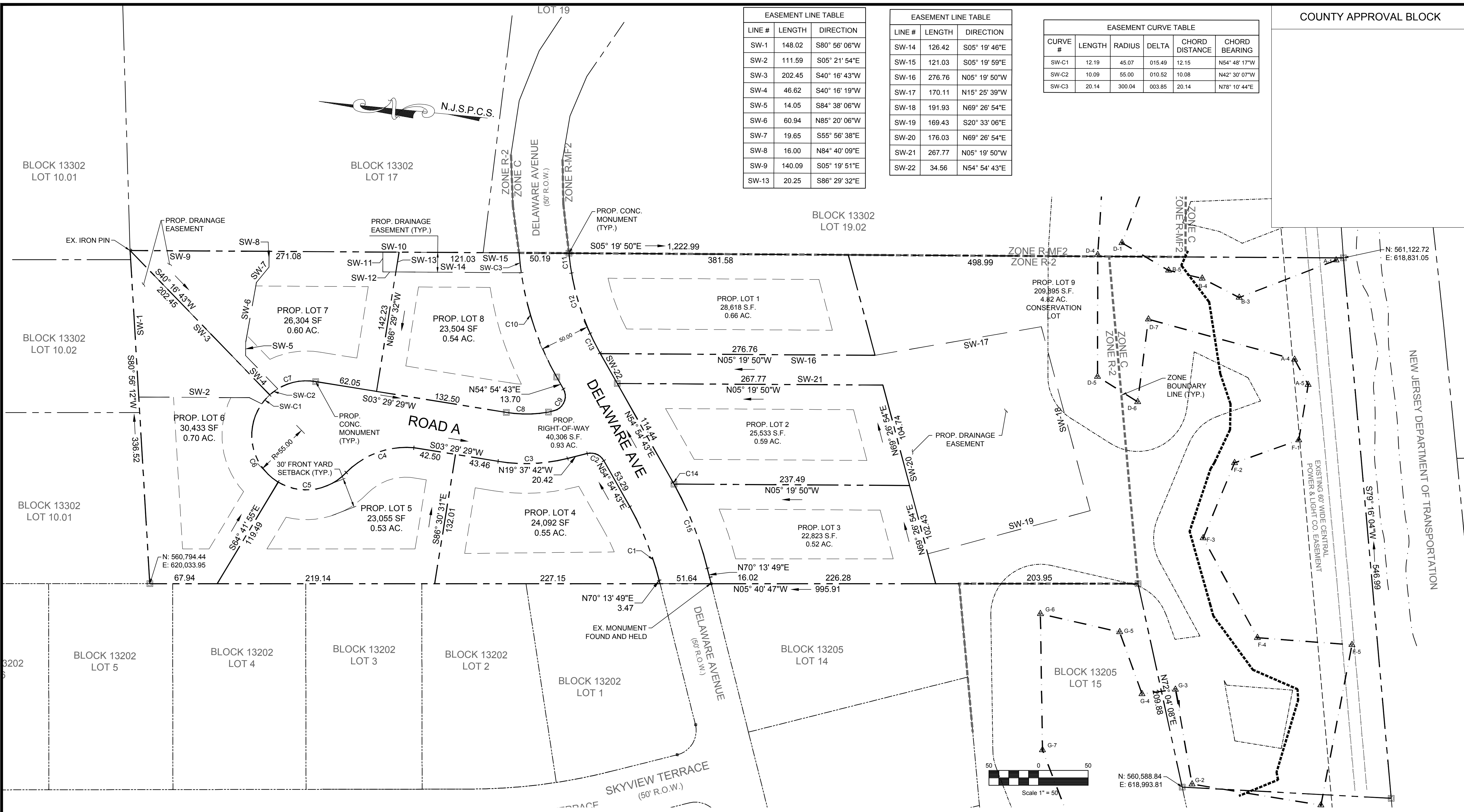
ENVIRONMENTAL CONSTRAINTS PLAN

JOB NO.:	0115210	DRAWING NO.:	4
SCALE:	1"=50'		23
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	04_ECP.DWG		
DATE:	09/22/2017		



LOT AREA TABLE

CRITICAL AREAS	LOT 1	LOT 2	LOT 3	LOT 4	LOT 5	LOT 6	LOT 7	LOT 8	LOT 9
CRITICAL AREA	24,666 SF	18,160 SF	21,602 SF	0 SF	0 SF	0 SF	0 SF	133 SF	155,476 SF
NONCRITICAL AREA	3,952 SF	7,373 SF	1,221 SF	24,092 SF	23,055 SF	30,433 SF	26,304 SF	23,371 SF	54,419 SF
TOTAL AREA	28,618 SF	25,533 SF	22,823 SF	24,092 SF	23,055 SF	30,433 SF	26,304 SF	23,504 SF	209,895 SF



EASEMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
SW-1	148.02	S80° 56' 06"W
SW-2	111.59	S05° 21' 54"E
SW-3	202.45	S40° 16' 43"W
SW-4	46.62	S40° 16' 19"W
SW-5	14.05	S84° 38' 06"W
SW-6	60.94	N85° 20' 06"W
SW-7	19.65	S55° 56' 38"E
SW-8	16.00	N84° 40' 09"E
SW-9	140.09	S05° 19' 51"E
SW-13	20.25	S86° 29' 32"E

EASEMENT LINE TABLE		
LINE #	LENGTH	DIRECTION
SW-14	126.42	S05° 19' 46"E
SW-15	121.03	S05° 19' 59"E
SW-16	276.76	N05° 19' 50"W
SW-17	170.11	N15° 25' 39"W
SW-18	191.93	N69° 26' 54"E
SW-19	169.43	S20° 33' 06"E
SW-20	176.03	N69° 26' 54"E
SW-21	267.77	N05° 19' 50"W
SW-22	34.56	N54° 54' 43"E

EASEMENT CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DISTANCE	CHORD BEARING
SW-C1	12.19	45.07	015.49	12.15	N54° 48' 17"W
SW-C2	10.09	55.00	010.52	10.08	N42° 30' 07"W
SW-C3	20.14	300.04	003.65	20.14	N78° 10' 44"E

COUNTY APPROVAL BLOCK

TOWNSHIP CLERK _____ DATE _____

TOWNSHIP ENGINEER _____ DATE _____

OWNER _____ DATE _____

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

CERTIFICATIONS/APPROVALS

I CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF THAT THIS LAND SURVEY DATED _____ HAS BEEN MADE UNDER MY SUPERVISION AND MEETS THE MINIMUM SURVEY DETAIL REQUIREMENTS OF THE STATE BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS AND THAT THE OUTBOUND CORNER MARKERS AS SHOWN HAVE BEEN FOUND, OR SET.

WAYNE J. INGRAM, PLS LIC.#24GB04258200 DATE (AFFIX SEAL)

THE MONUMENTS SHOWN ON THIS MAP SHALL BE SET WITHIN THE TIME LIMIT PROVIDED IN THE "MUNICIPAL LAND USE LAW," P.L.1975, c.291 (C.40:55D-1 ET SEQ.) OR LOCAL ORDINANCE.

I CERTIFY THAT A BOND HAS BEEN GIVEN TO THE MUNICIPALITY, GUARANTEEING THE FUTURE SETTING OF THE MONUMENTS AS DESIGNATED AND SHOWN ON THIS MAP.

I HAVE CAREFULLY EXAMINED THIS MAP AND TO THE BEST OF MY KNOWLEDGE AND BELIEF FIND IT CONFORMS WITH THE PROVISIONS OF THE MAP FLING LAW, RESOLUTION OF APPROVAL AND APPLICABLE MUNICIPAL ORDINANCES AND REQUIREMENTS.

THIS SUBDIVISION IS MADE WITH OUR AUTHORIZATION FREE CONSENT AND IS IN FULL ACCORDANCE WITH OUR DESIRES.

I HEREBY CERTIFY THAT ALL REQUIREMENTS OF THE LONG HILL TOWNSHIP PLANNING BOARD HAVE BEEN COMPLIED WITH.

GENERAL NOTES:

- OWNER/APPLICANT: MARIO PARISI, SR. 8 OVERLOOK DRIVE GILLETTE, NEW JERSEY 07933 PHONE #: 973-714-2289
- BOUNDARY & TOPOGRAPHIC INFORMATION REFERENCES THE SURVEY ENTITLED "PLAN OF SURVEY FOR BLOCK 13302 LOT 16.01 LOCATED IN LONG HILL TOWNSHIP, MORRIS COUNTY, NEW JERSEY" PREPARED BY ENGINEERING & LAND PLANNING ASSOCIATES, DATED SEPTEMBER 11, 2017.
- THESE PLANS ARE NOT TO BE USED AS SURVEYS. REFER TO REFERENCE SOURCE (NOTE #2 ABOVE) FOR BOUNDARY AND TOPOGRAPHIC INFORMATION.
- ALL PROPOSED LOT NUMBERS TO BE COORDINATED WITH MUNICIPAL TAX ASSESSOR.

BULK REQUIREMENTS

ITEM	REQUIRED	REQUIRED	PROP. REQUIREMENTS	EX. LOT 16.01	EX. LOT 16.01	PROP. LOT 1	PROP. LOT 2	PROP. LOT 3	PROP. LOT 4	PROP. LOT 5	PROP. LOT 6	PROP. LOT 7	PROP. LOT 8	PROP. LOT 9
ZONING DISTRICT	C	R2	C	R2	R2	R2	R2	R2	R2	R2	R2	R2	R2	R2/C
MINIMUM LOT AREA	3 AC.	45,000 S.F.	21,500 S.F. (V)	2.86 AC.	322,976 S.F.	28,618 S.F.	25,533 S.F.	22,823 S.F.	24,092 S.F.	23,055 S.F.	30,433 S.F.	26,304 S.F.	23,504 S.F.	209,895 S.F.
MIN. LOT WIDTH	250 FT.	150 FT.	100 FT. (V)	> 250 FT.	> 150 FT.	106.92 FT	116.42 FT	107.60 FT	145.93 FT	192.40 FT	102.63 FT	111.98 FT	128.94 FT	34.56 (V)
MIN. FRONT YARD	75 FT.	75 FT.	30 FT. (V)	N/A	N/A	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	> 30 FT.	N/A
MIN. REAR YARD	50 FT.	50 FT.	35 FT. (V)	N/A	N/A	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	> 35 FT.	N/A
MIN. SIDE YARD	25 FT.	25 FT.	25 FT.	N/A	N/A	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	> 25 FT.	N/A
MAXIMUM LOT COVERAGE (%)	15%	20%	0%	0%	0%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 20%	< 15%
MINIMUM FLOOR AREA	1,500 S.F.	1,500 S.F.	1,500 S.F.	N/A	N/A	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	>1,500 S.F.	N/A
FLOOR AREA RATIO	N/A	15%	N/A	N/A	N/A	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	< 15%	N/A
MAXIMUM BUILDING HEIGHT	35 FT/2.5 STY.	35 FT/2.5 STY.	35 FT/2.5 STY.	N/A	N/A	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	<= 35 FT/2.5 STY.	N/A

(N/A) INDICATES THAT ITEM IS NOT APPLICABLE
(V) INDICATES THAT A VARIANCE IS REQUESTED FOR THIS ITEM

DEDICATION NOTES:

- DRAINAGE EASEMENTS SHALL BE DEDICATED TO THE HOMEOWNERS ASSOCIATION.
- LOT 9 OWNERSHIP SHALL BE DEDICATED TO THE HOMEOWNERS ASSOCIATION.

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD DISTANCE	CHORD BEARING
C1	80.19	300.00	015.32	79.96	S62° 34' 12"W
C2	19.51	15.00	074.54	18.17	S17° 38' 31"W
C3	70.63	169.44	023.88	70.12	S08° 04' 15"E
C4	75.08	84.87	050.69	72.66	N25° 50' 26"W
C5	74.82	55.00	077.94	69.18	S13° 40' 04"E
C6	102.63	55.00	106.91	88.38	N78° 45' 30"E
C7	49.93	55.00	052.02	48.24	S21° 45' 02"E
C8	42.66	125.00	019.55	42.45	S06° 07' 51"E
C9	27.61	15.00	105.46	23.87	S72° 21' 29"E
C10	131.90	300.03	025.19	130.84	N67° 30' 25"E
C11	105.91	250.03	024.27	105.12	N67° 02' 53"E
C12	105.91	250.03	024.27	105.12	N67° 02' 53"E
C13	105.91	250.03	024.27	105.12	N67° 02' 53"E
C14	1.98	350.01	000.32	1.98	N55° 04' 28"E
C15	91.58	350.01	014.99	91.32	N62° 43' 56"E

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PH. 908-238-0544 FAX. 908-238-9572
A PROFESSIONAL ASSOCIATION
CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

4	PER TOWNSHIP ENGINEER	KFO	12/15/20
3	PER TOWNSHIP ENGINEER	CBR	06/05/20
2	PER TOWNSHIP COMMENTS	MMS	02/04/19
1	PER TOWNSHIP COMMENTS	MMS	09/07/18

NO. _____ BY _____ DATE _____

12/15/2020 DATE _____ WAYNE J. INGRAM
PROFESSIONAL ENGINEER & LAND SURVEYOR
N.J. P.E. & P.L.S. NO. 24GB04258200

PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI BLOCK 13302, LOT 16.01 DELAWARE AVENUE LONG HILL TOWNSHIP MORRIS COUNTY NEW JERSEY

TITLE: MAJOR SUBDIVISION PLAT

JOB NO.: 0115210 DRAWING NO.: 5/23

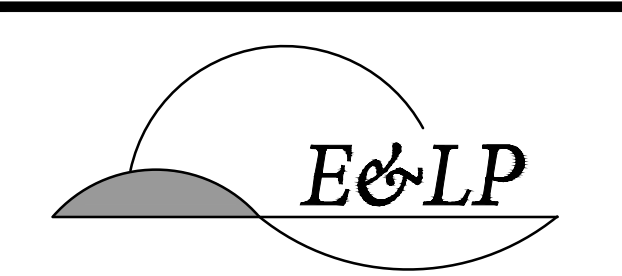
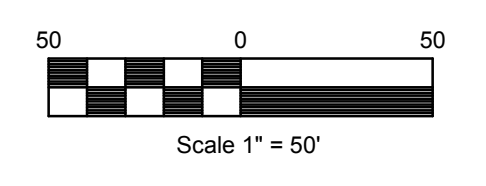
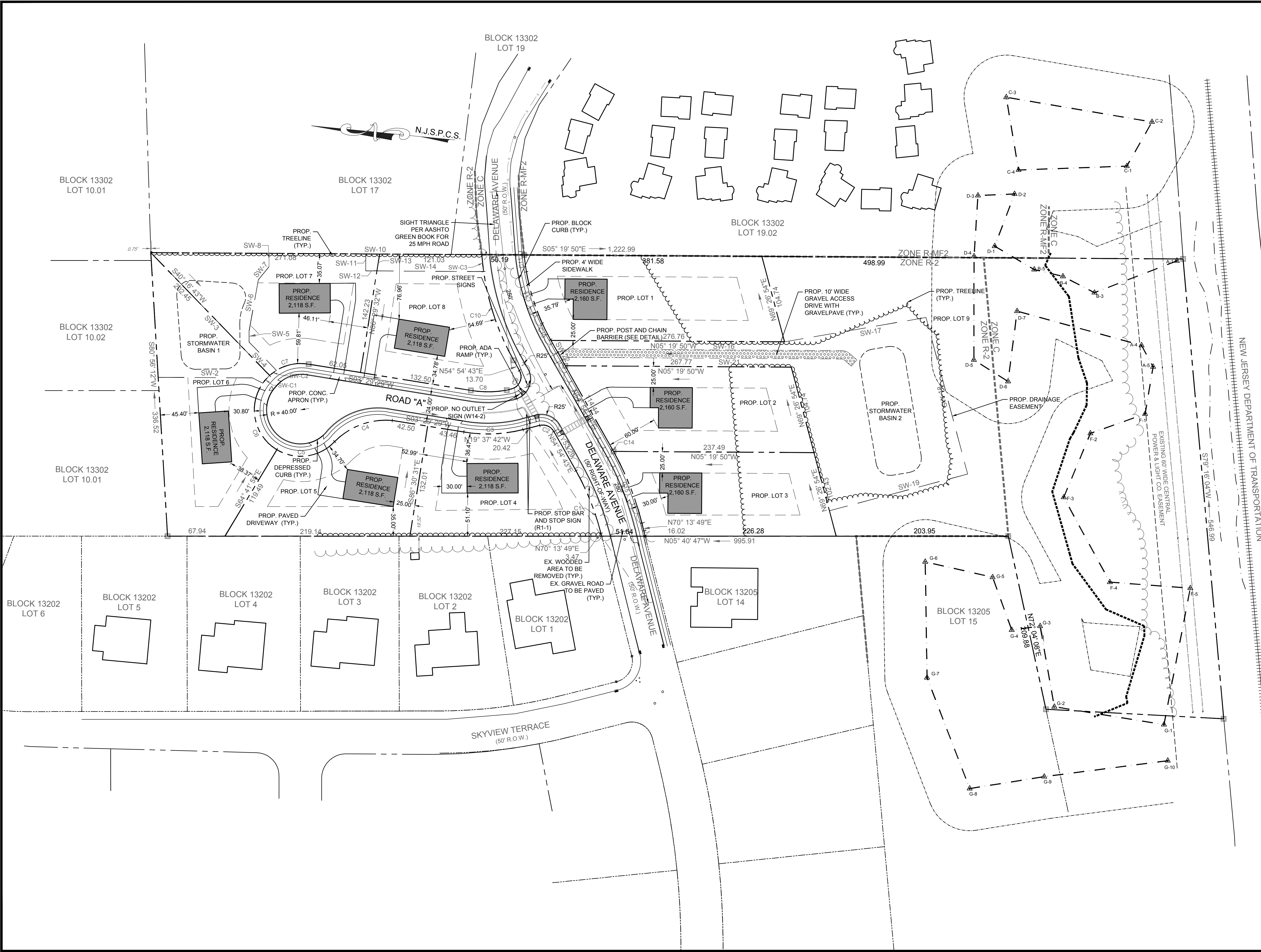
SCALE: 1"=50'

DESIGNED: MMS

CHECKED: CN


FILENAME: 05_PLAT

DATE: 09/22/2017



140 WEST MAIN STREET HIGH BRIDGE, NJ 08829
 PH. 908-238-0544 FAX. 908-238-9572
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NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

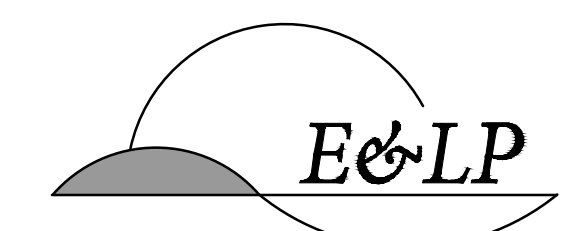
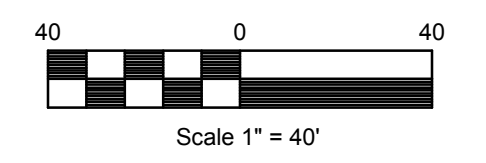
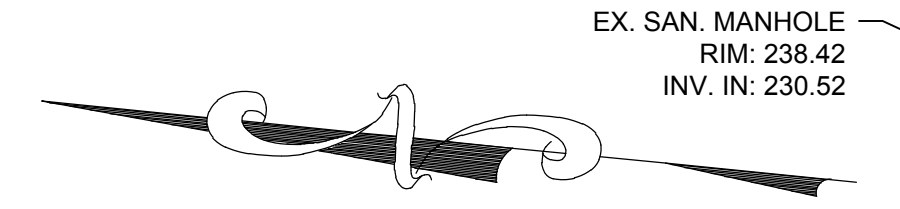
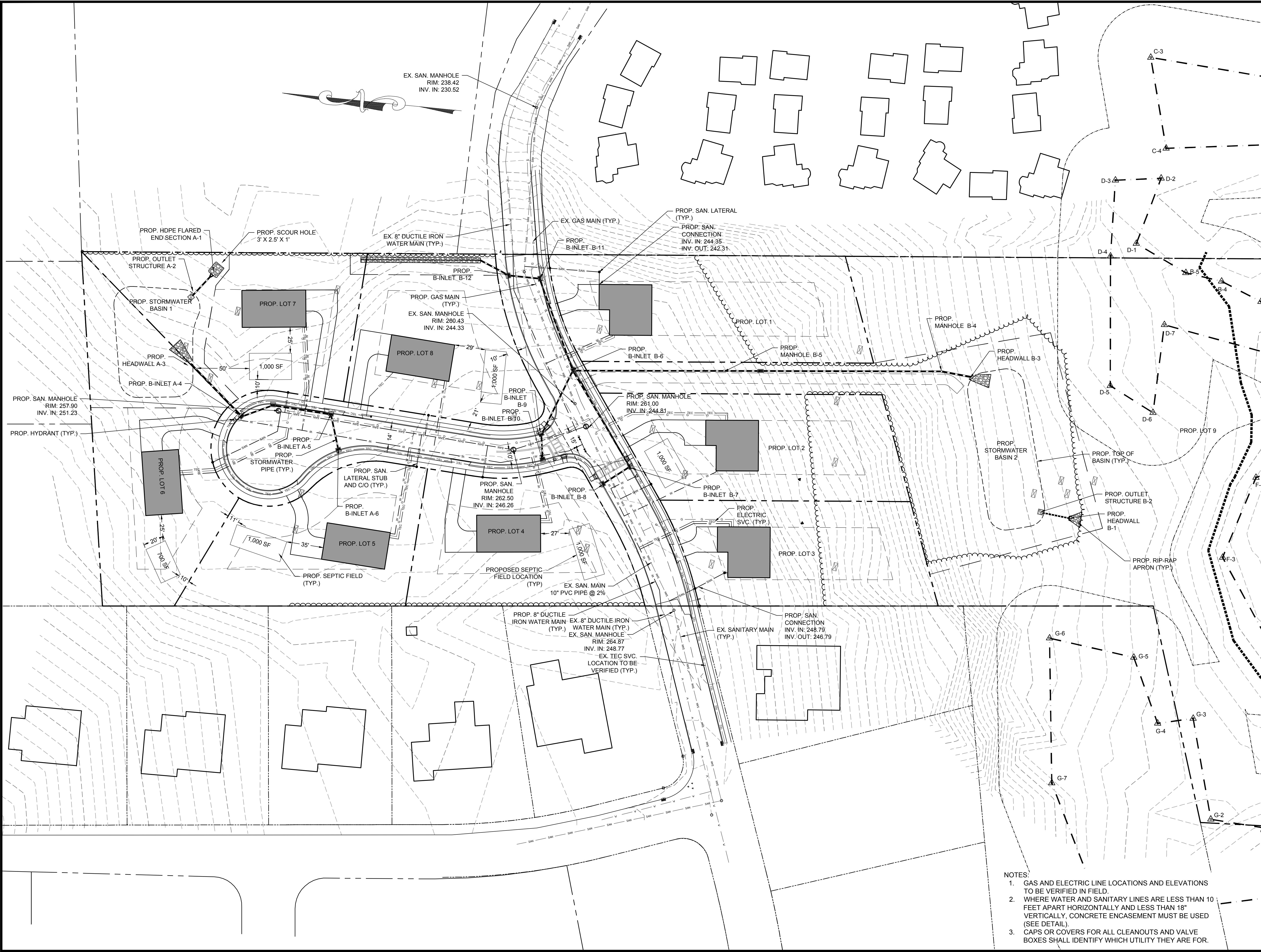
12/15/2020
 DATE

 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
 SITE PLAN


JOB NO.:	0115210	DRAWING NO.:	6 23
SCALE:	1"=50'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	06_SITE.DWG		
DATE:	09/22/2017		

NEW JERSEY DEPARTMENT OF TRANSPORTATION



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 PH. 908-238-0544 FAX. 908-238-9572
 A PROFESSIONAL ASSOCIATION
 CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

12/15/2020
 DATE

 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP

MORRIS COUNTY NEW JERSEY

TITLE:

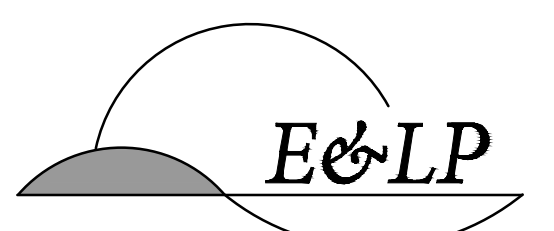
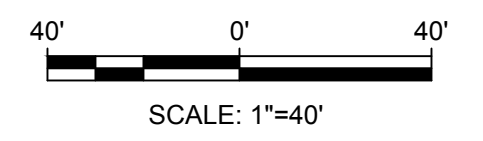
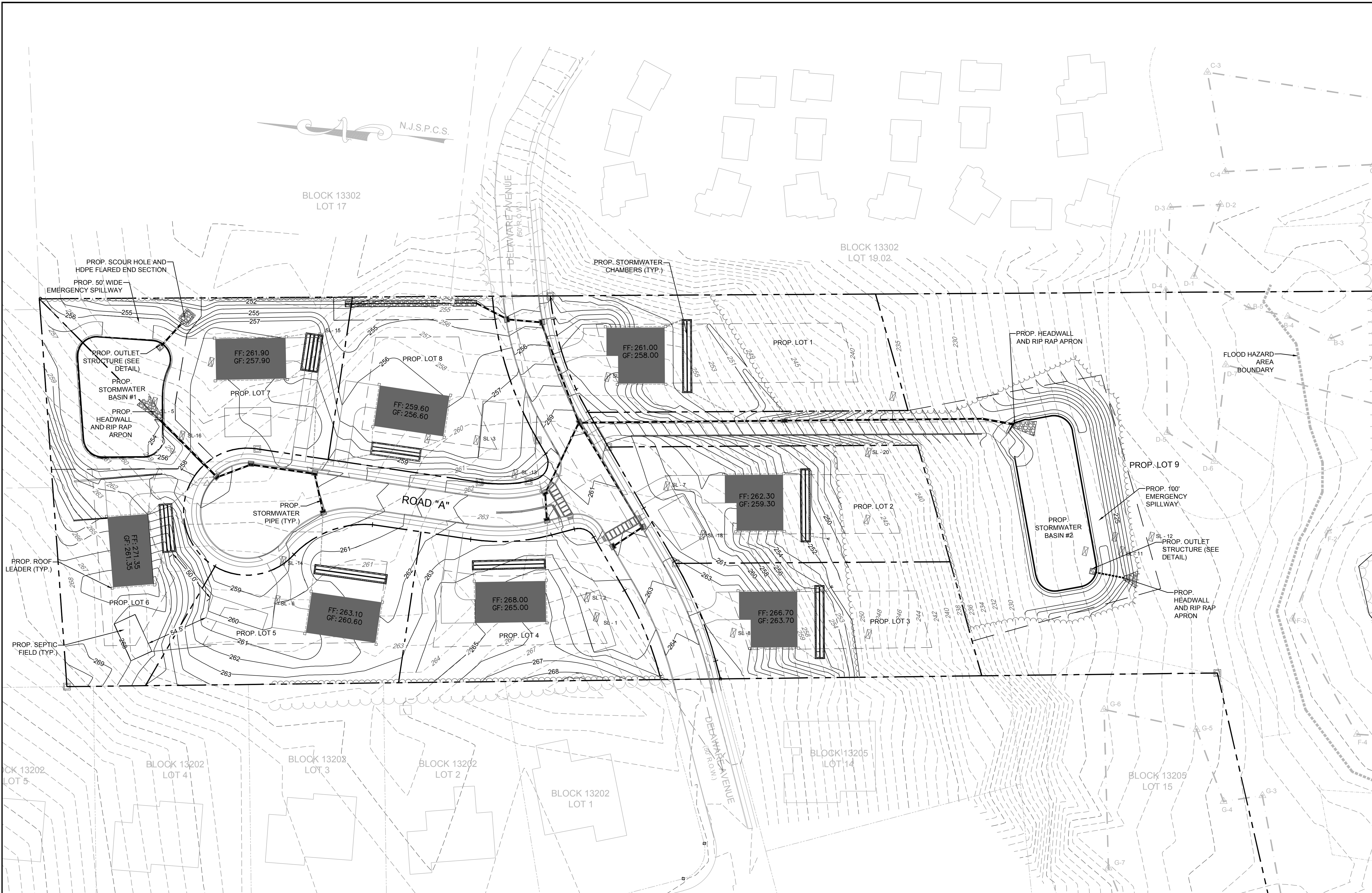
UTILITIES PLAN

JOB NO.:	0115210	DRAWING NO.:	7
SCALE:	1"=40'		23
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	UTILITIES.DWG		
DATE:	09/22/2017		

- NOTES:
1. GAS AND ELECTRIC LINE LOCATIONS AND ELEVATIONS TO BE VERIFIED IN FIELD.
 2. WHERE WATER AND SANITARY LINES ARE LESS THAN 10 FEET APART HORIZONTALLY AND LESS THAN 18" VERTICALLY, CONCRETE ENCASEMENT MUST BE USED (SEE DETAIL).
 3. CAPS OR COVERS FOR ALL CLEANOUTS AND VALVE BOXES SHALL IDENTIFY WHICH UTILITY THEY ARE FOR.

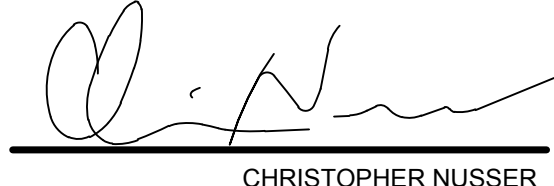
NOTE:

1. GRADING PLAN NOT BASED ON DEFINED ARCHITECTURAL DRAWINGS FOR EACH LOT. DETAILED GRADING WITH ACCOMPANYING DETAILED ARCHITECTURAL DRAWINGS SHALL BE PROVIDED DURING THE LOT DEVELOPMENT PHASE BY INDIVIDUAL LOT OWNERS.



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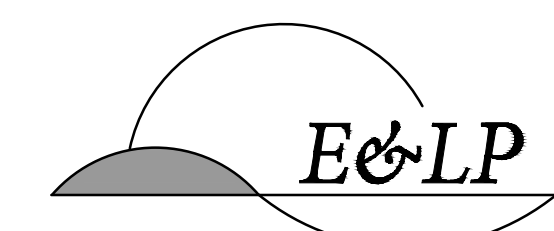
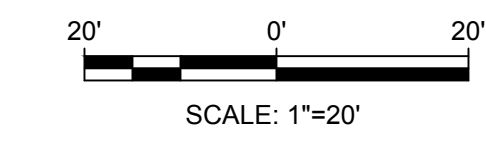
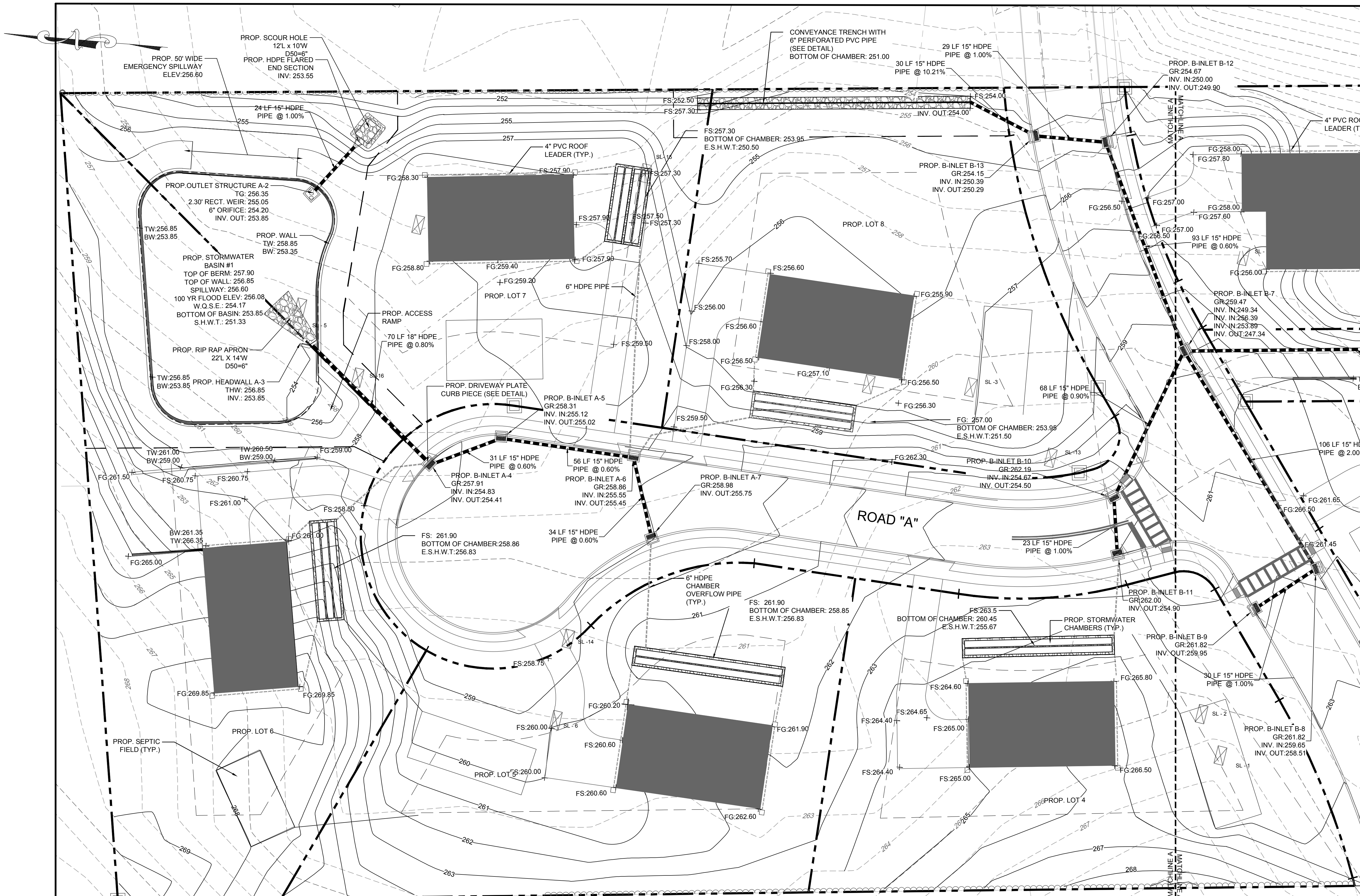
NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

12/15/2020
 DATE

 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
**OVERALL
 GRADING AND
 DRAINAGE PLAN**

JOB NO.:	0115210	DRAWING NO.:	8 23
SCALE:	1"=40'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	01_GRADING AND DRAINAGE		
DATE:	09/22/2017		



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 A PROFESSIONAL ASSOCIATION
 CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

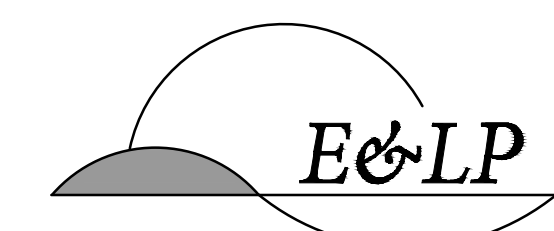
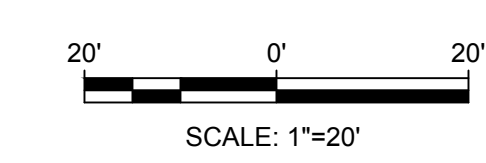
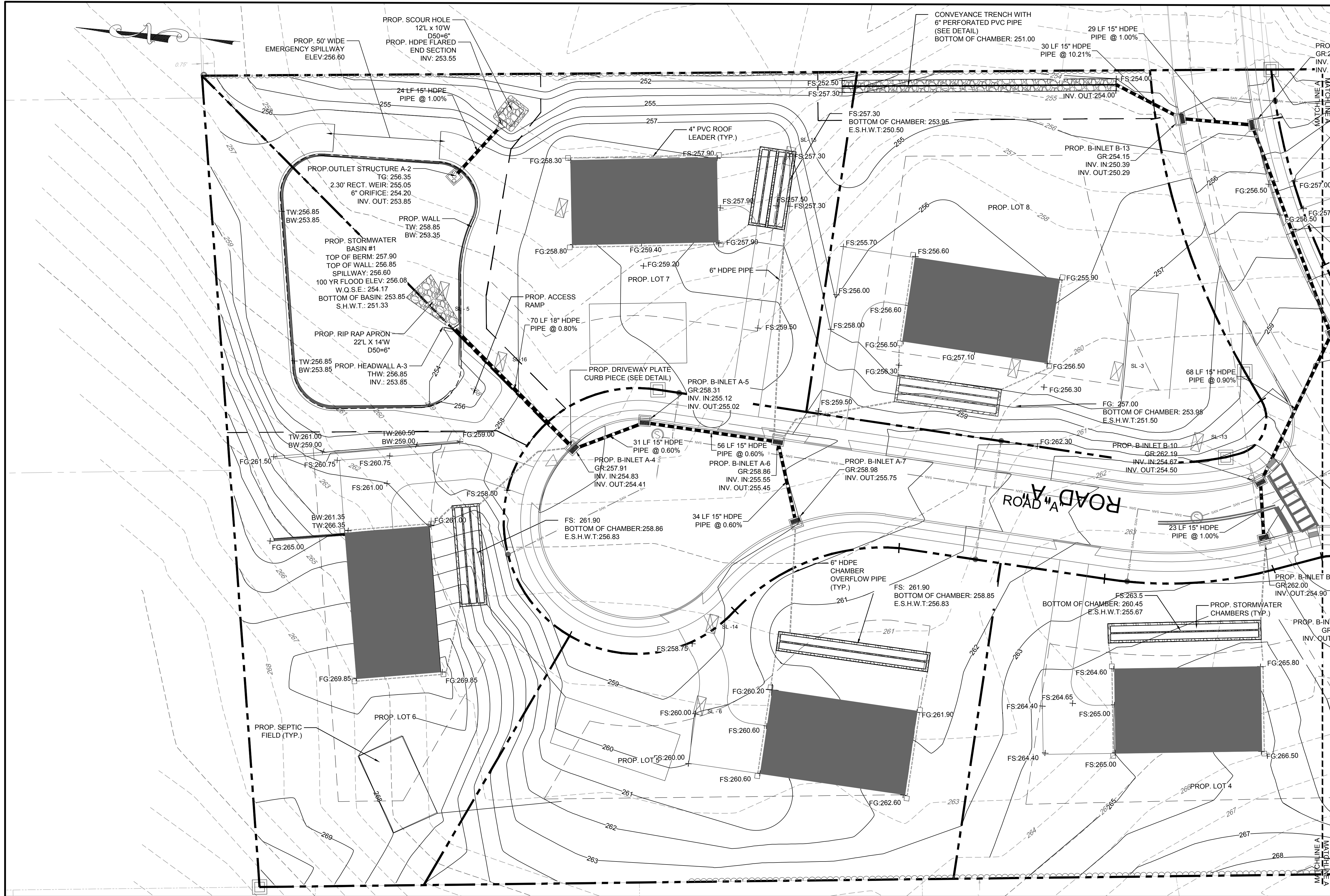
NO.	BY	DATE
4	KFO	12/15/20
3	CBR	06/05/20
2	MMS	02/04/19
1	MMS	09/07/18

12/15/2020
 DATE
 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
**GRADING AND
 DRAINAGE PLAN
 SECTION 'A'**

JOB NO.:	0115210	DRAWING NO.:	9 23
SCALE:	1"=20'		
DESIGNED:	MMS		
CHECKED:	CN		
FILE NAME:	01_GRADING AND DRAINAGE		
DATE:	09/22/2017		



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 A PROFESSIONAL ASSOCIATION
 CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

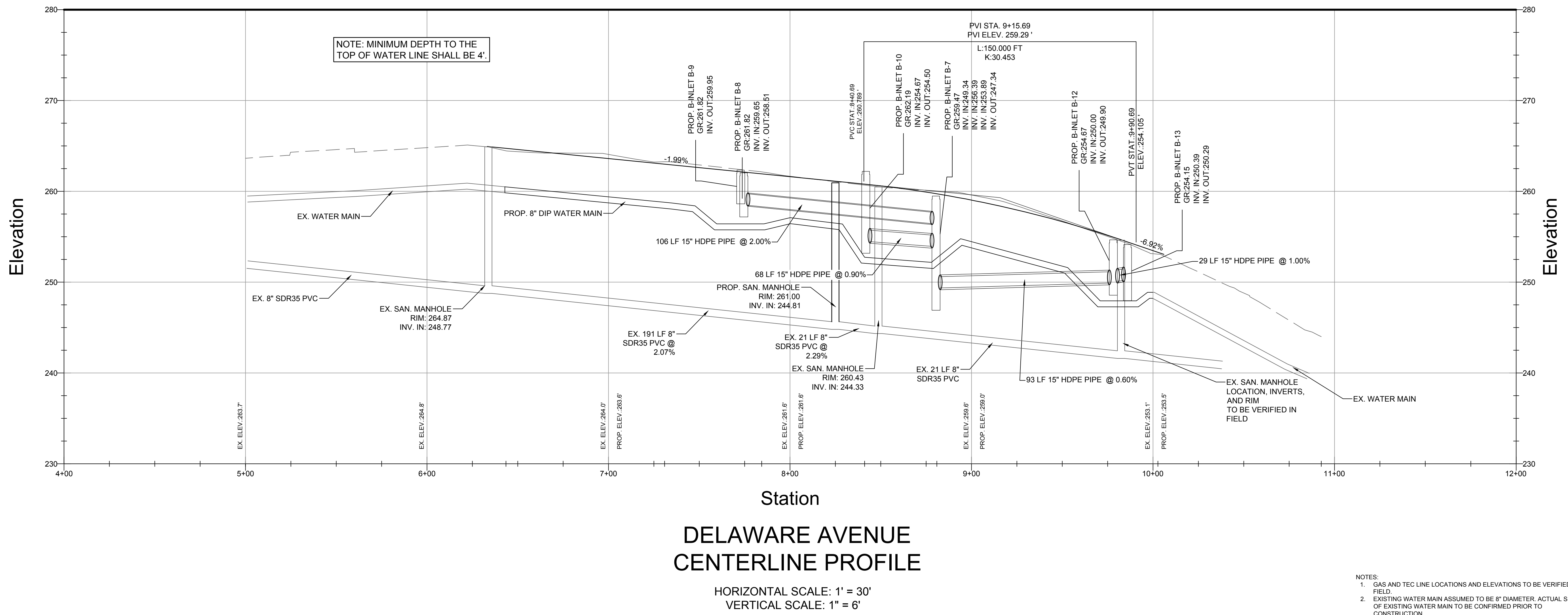
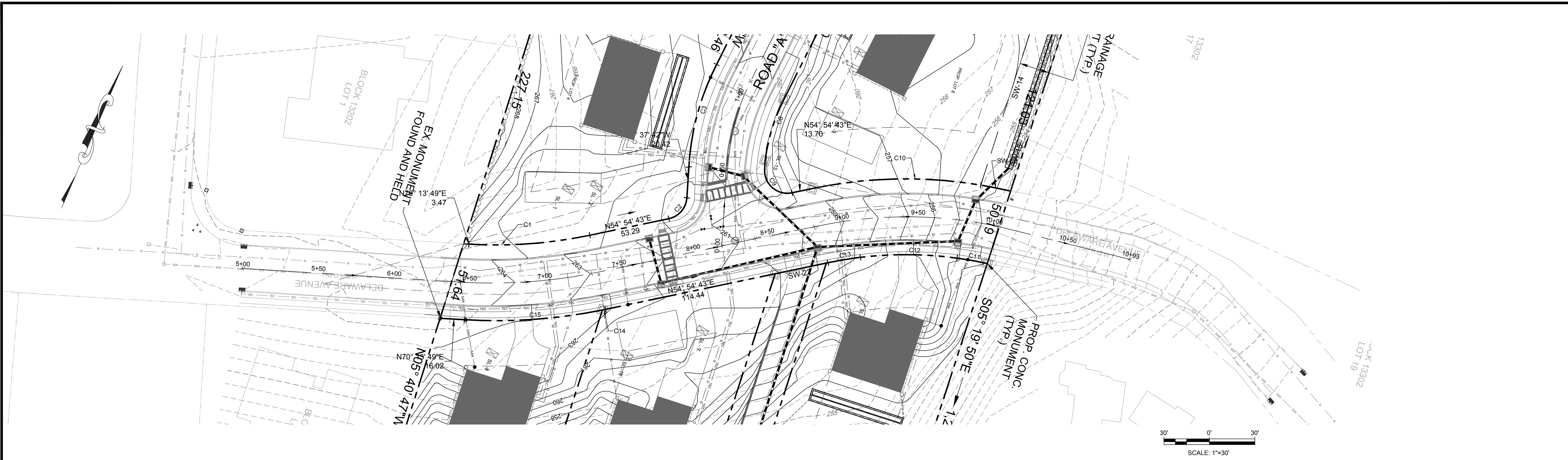
NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

12/15/2020
 DATE
 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
**GRADING AND
 DRAINAGE PLAN
 SECTION 'B'**

JOB NO.:	0115210	DRAWING NO.:	10 23
SCALE:	1"=20'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	0115210_GRADING AND DRAINAGE		
DATE:	09/22/2017		



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 PH. 908-238-0544 FAX. 908-238-9572
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 CERTIFICATE OF AUTHORIZATION NO.: 24GA2021500 EXP. 8/31/2020

NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

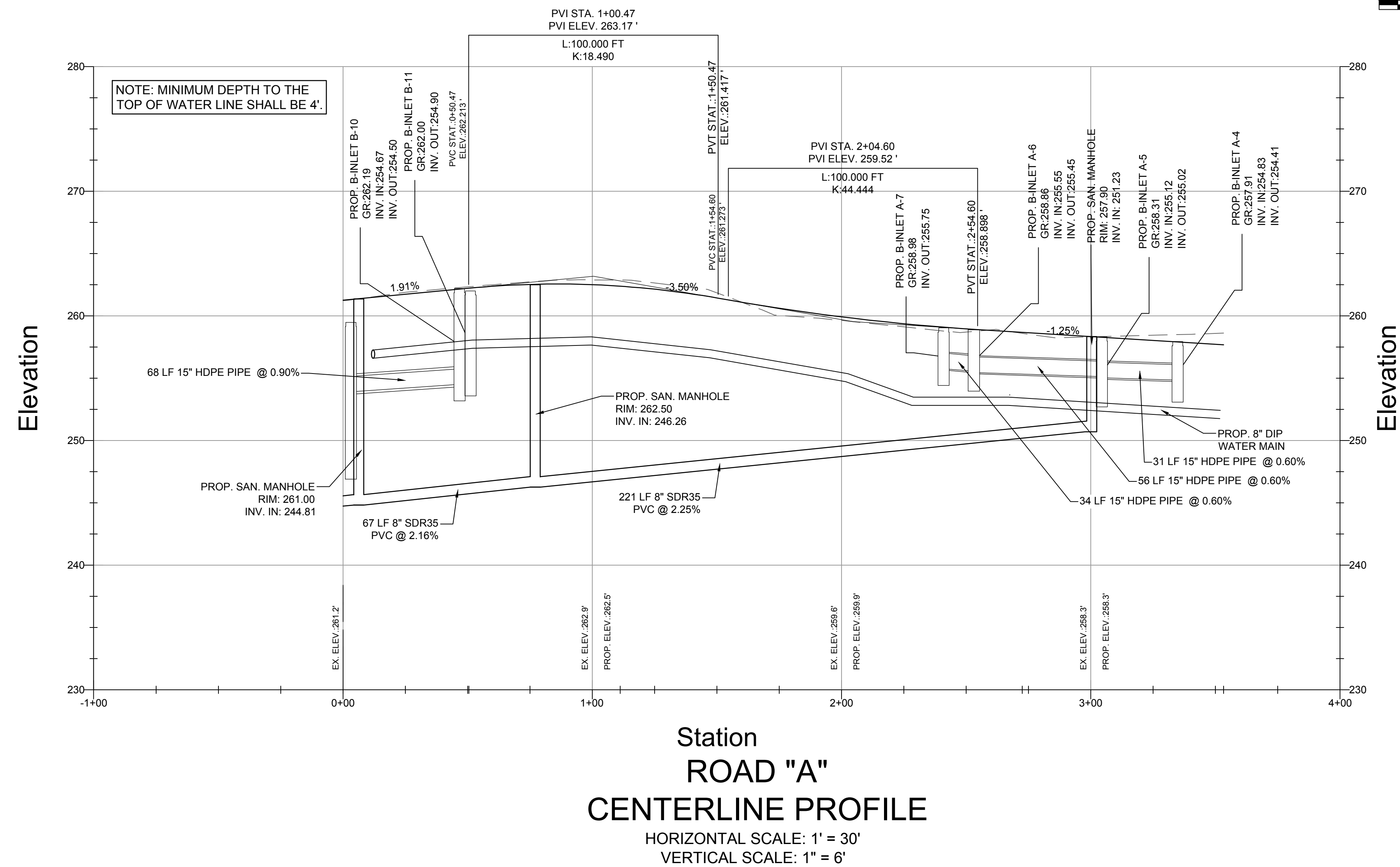
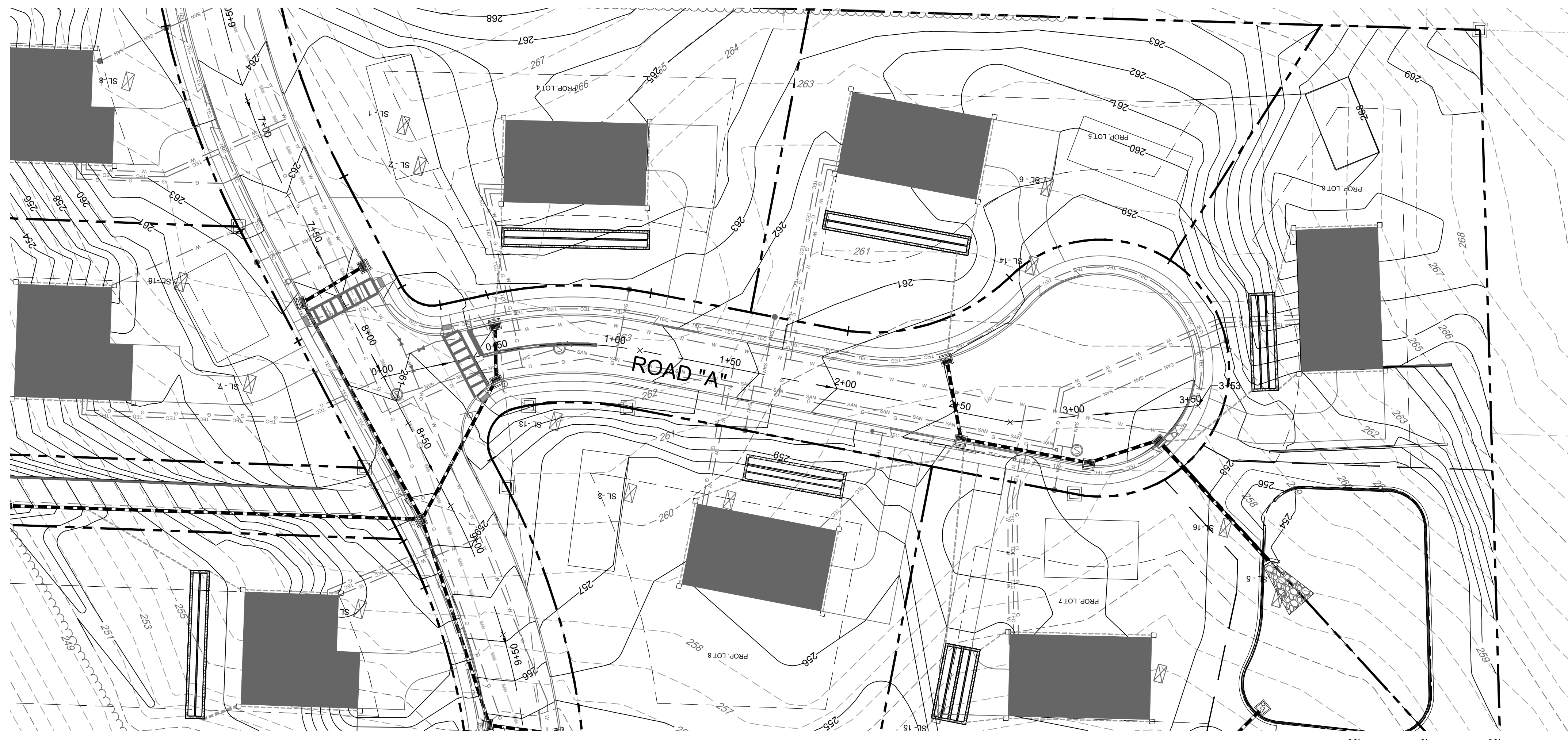
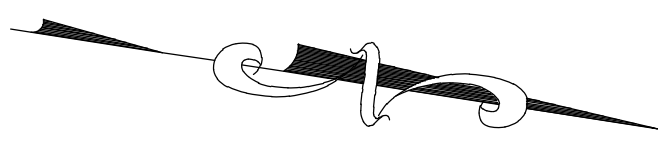
DATE: 12/15/2020
 DATE:
 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE: **PLAN AND PROFILE DELAWARE AVE**

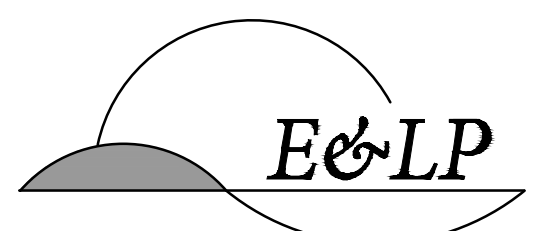
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SCALE:	AS SHOWN		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	07_GRADING.DWG		
DATE:	09/22/2017		

NOTES:
 1. GAS AND TEC LINE LOCATIONS AND ELEVATIONS TO BE VERIFIED IN FIELD.
 2. EXISTING WATER MAIN ASSUMED TO BE 8" DIAMETER. ACTUAL SIZE OF EXISTING WATER MAIN TO BE CONFIRMED PRIOR TO CONSTRUCTION.



Station
ROAD "A"
CENTERLINE PROFILE
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 6'

NOTES:
1. GAS AND TEC LINE LOCATIONS AND ELEVATIONS TO BE VERIFIED IN FIELD.
2. EXISTING WATER MAIN ASSUMED TO BE 8" DIAMETER. ACTUAL SIZE OF EXISTING WATER MAIN TO BE CONFIRMED PRIOR TO CONSTRUCTION.



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NO.	BY	DATE
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12/15/2020
DATE
CHRISTOPHER NUSSER
PROFESSIONAL ENGINEER
N.J. P.E. NO. 24GE049025

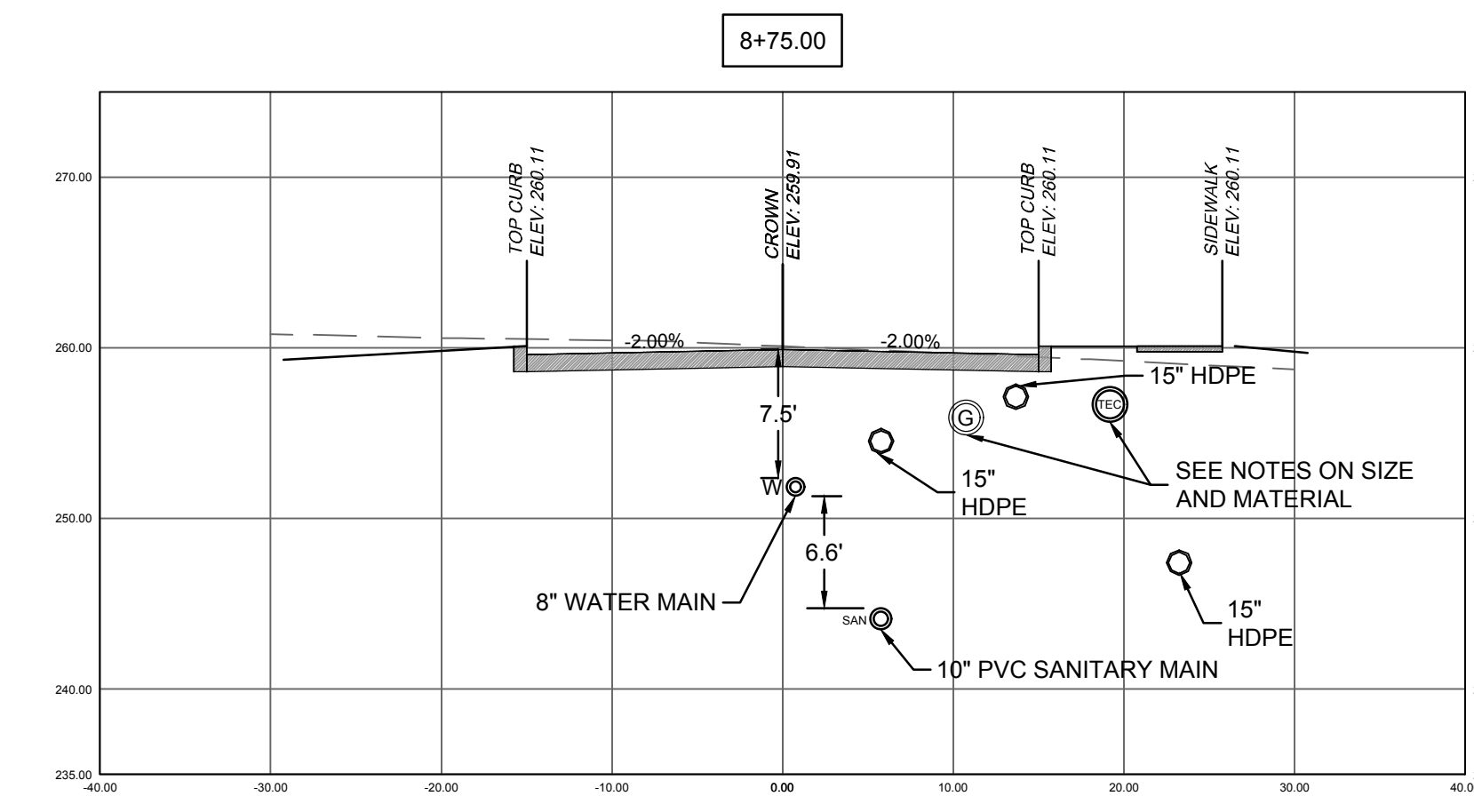
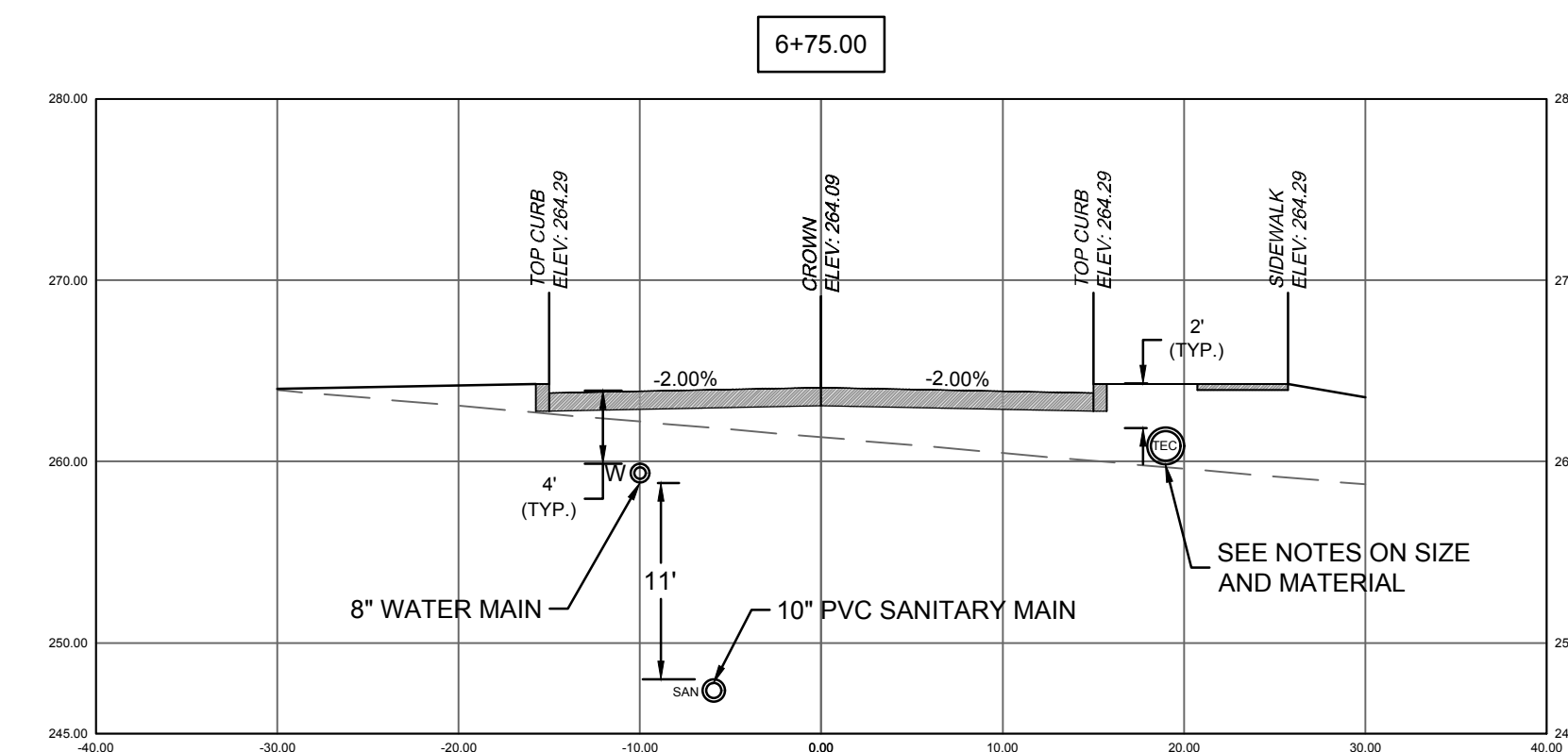
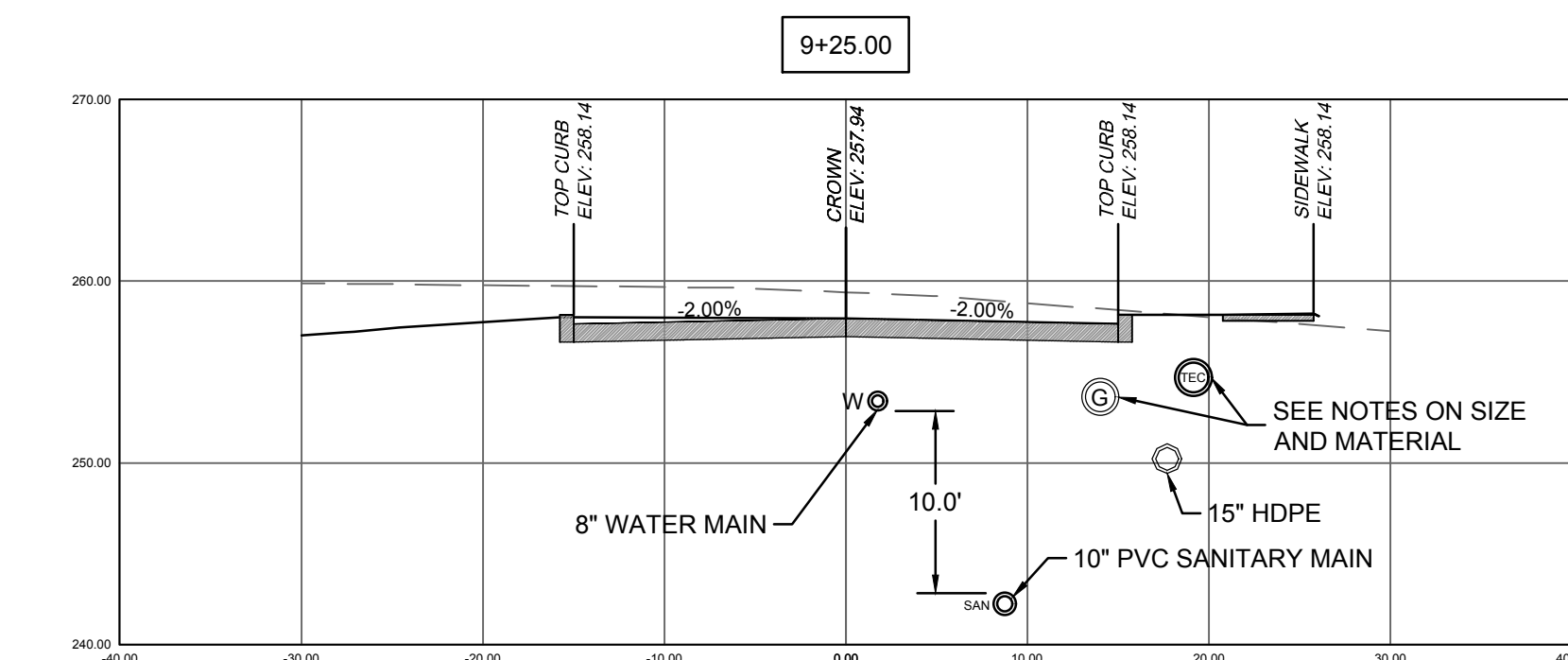
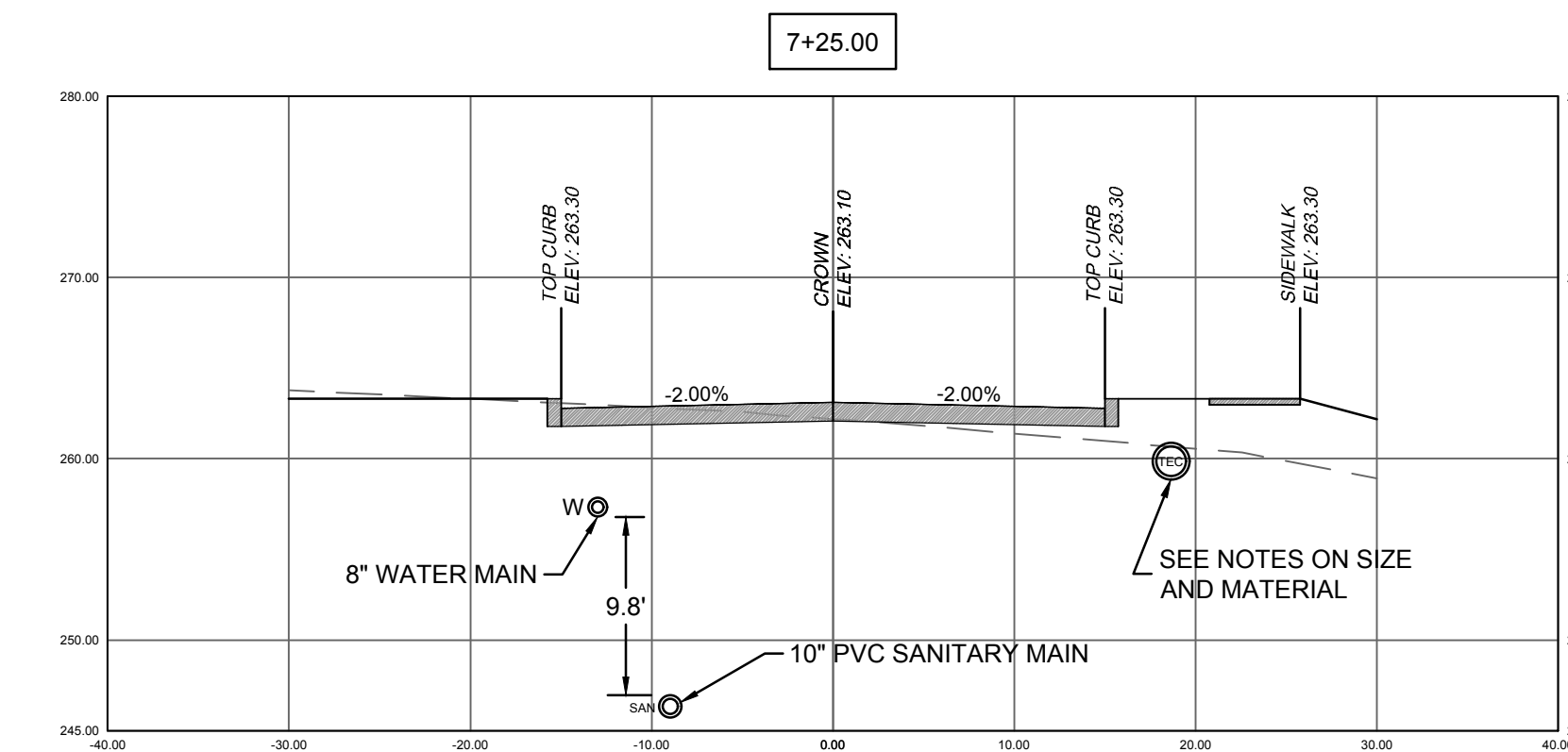
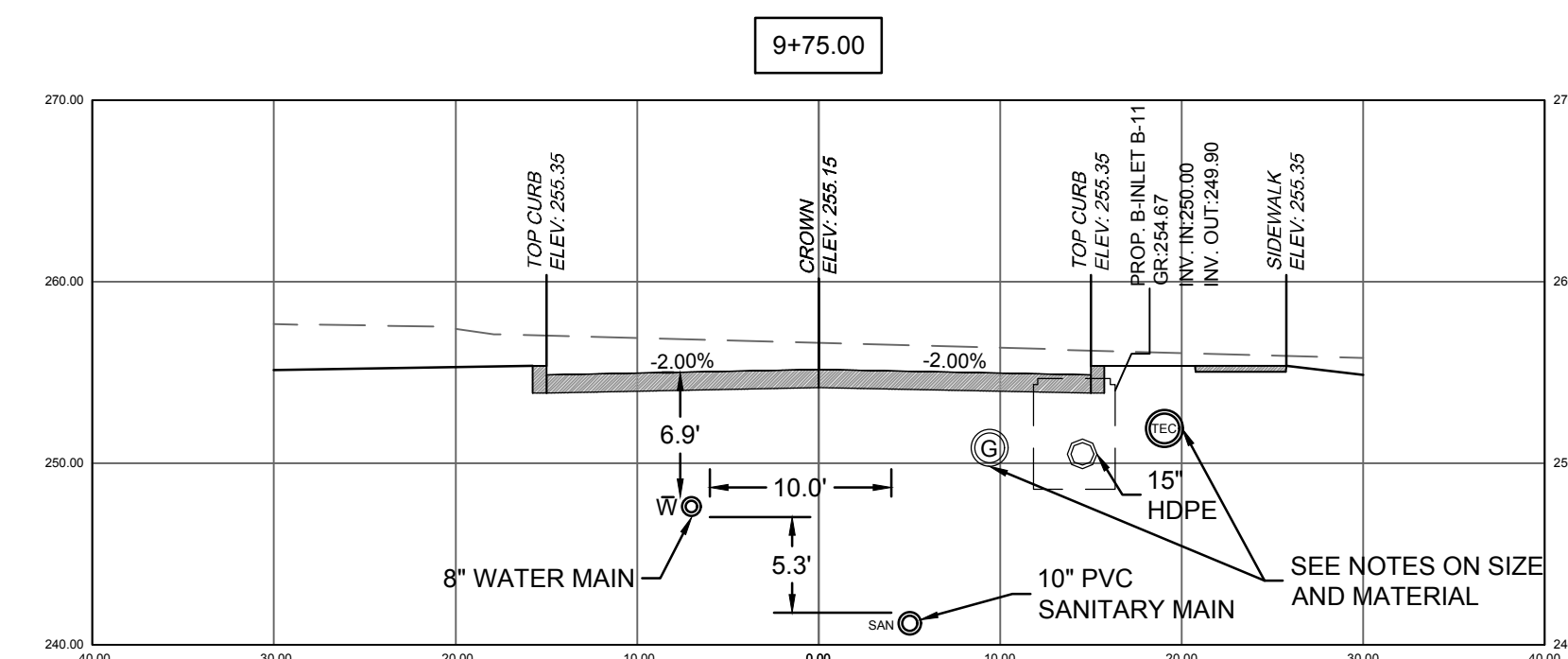
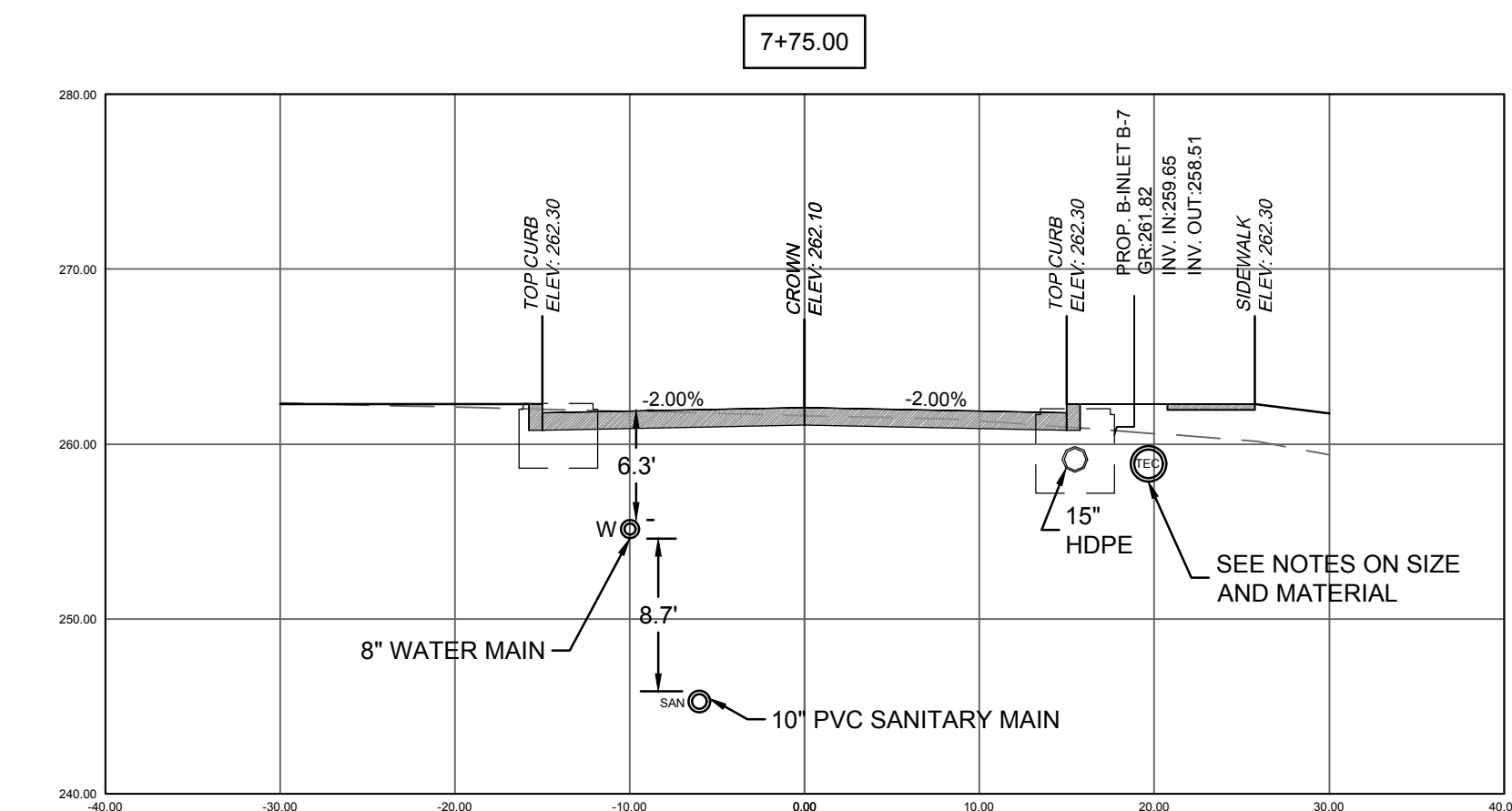
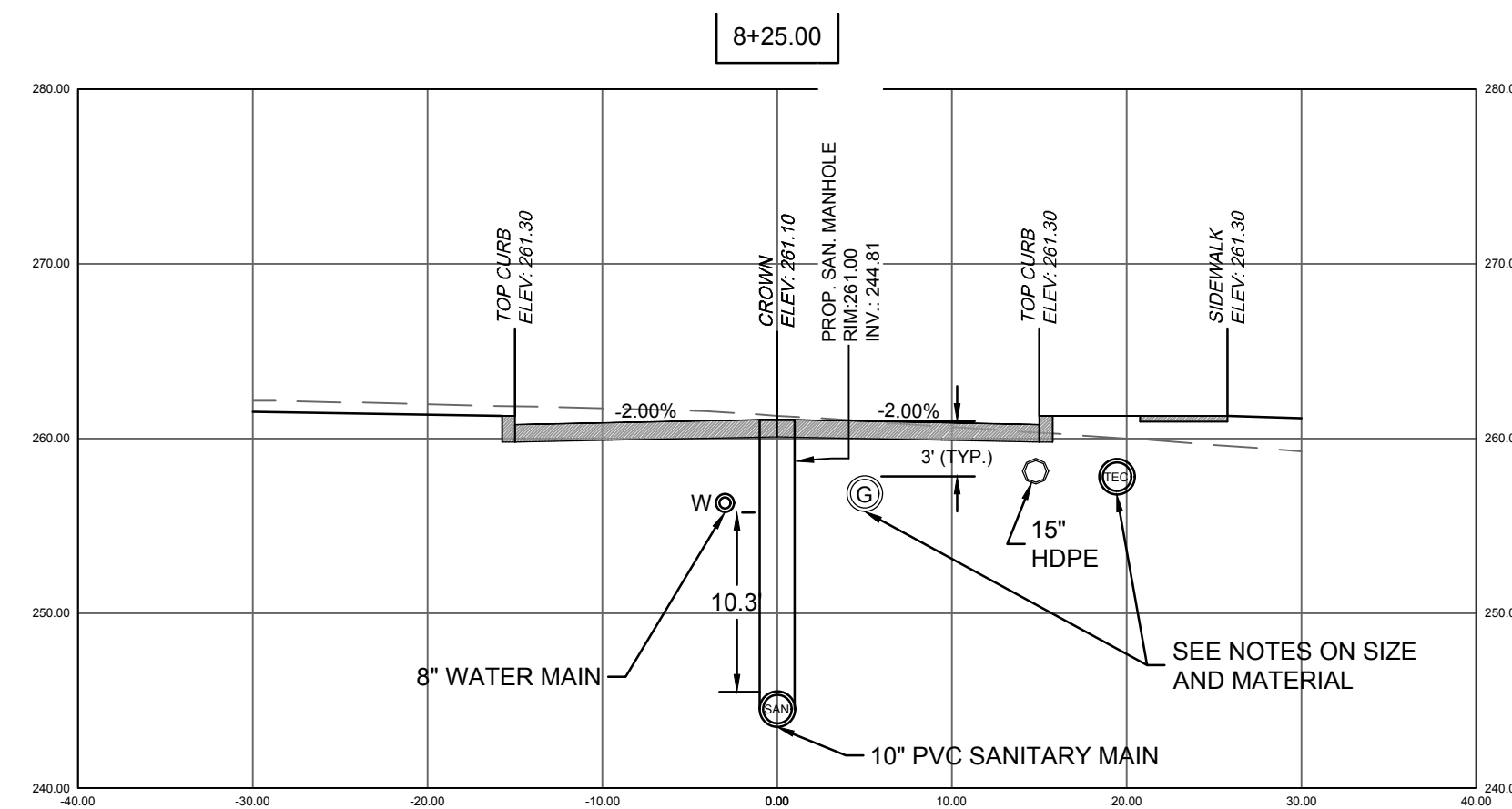
PROJECT:
MAJOR SUBDIVISION PLAN
FOR MARIO PARISI
BLOCK 13302, LOT 16.01
DELAWARE AVENUE
LONG HILL TOWNSHIP
MORRIS COUNTY NEW JERSEY

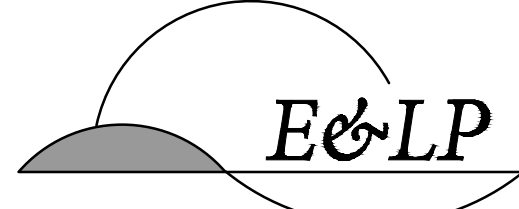
TITLE:
**PLAN AND PROFILE
ROAD "A"**

JOB NO.:	0115210	DRAWING NO.:	12 23
SCALE:	AS SHOWN		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	07_GRADING.DWG		
DATE:	09/22/2017		

DELAWARE AVENUE CROSS SECTIONS

- LEGEND**
- ⊖ TEC LINE
(SIZE TO BE DETERMINED BY UTIL. CO.)
 - ⊕ GAS MAIN
(SIZE TO BE DETERMINED BY UTIL. CO.)
 - SM 10" SANITARY MAIN
(10" DIAMETER)
 - W 8" WATER MAIN
(8" DIAMETER)
 - STORMWATER PIPE
(DIAMETER AS SHOWN)






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NO.	BY	DATE
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12/15/2020
DATE



CHRISTOPHER NUSSER
PROFESSIONAL ENGINEER
N.J. P.E. NO. 24GE049025

PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI
BLOCK 13302, LOT 16.01
DELAWARE AVENUE
LONG HILL TOWNSHIP

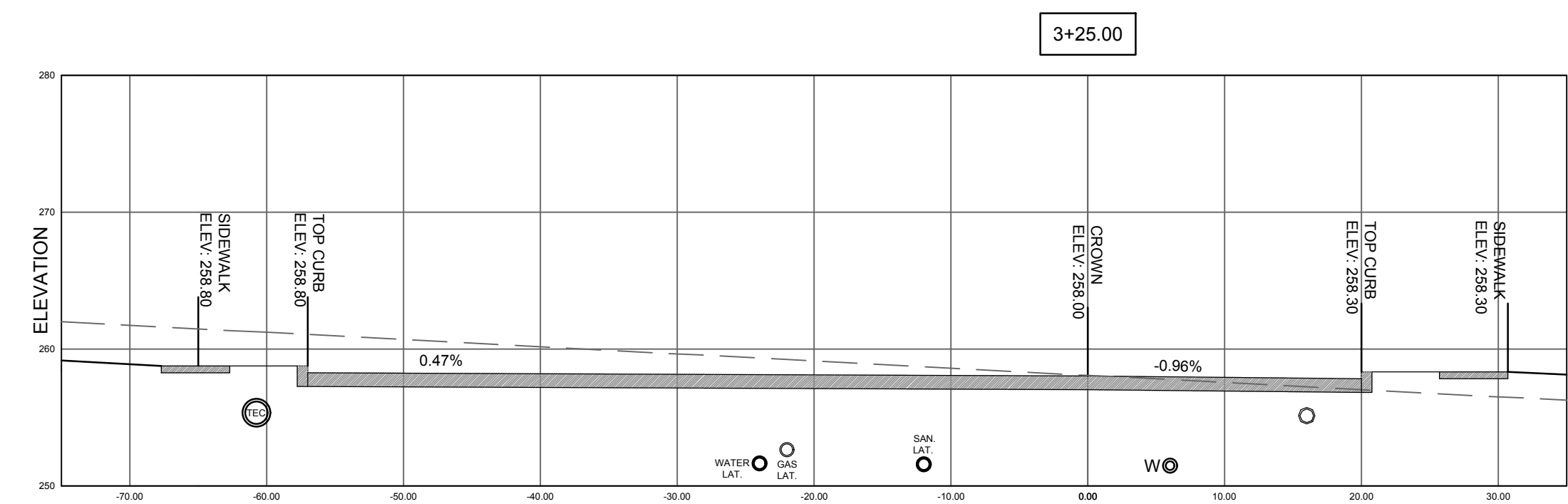
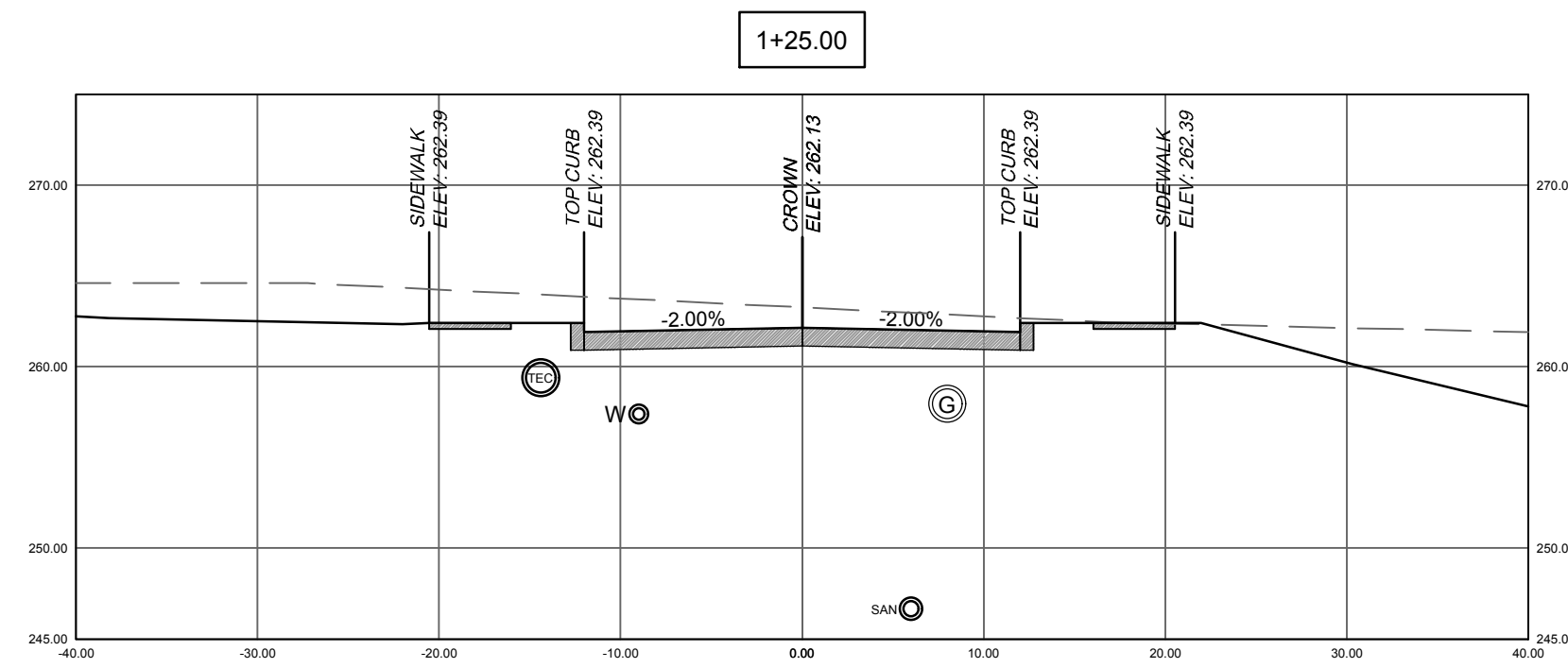
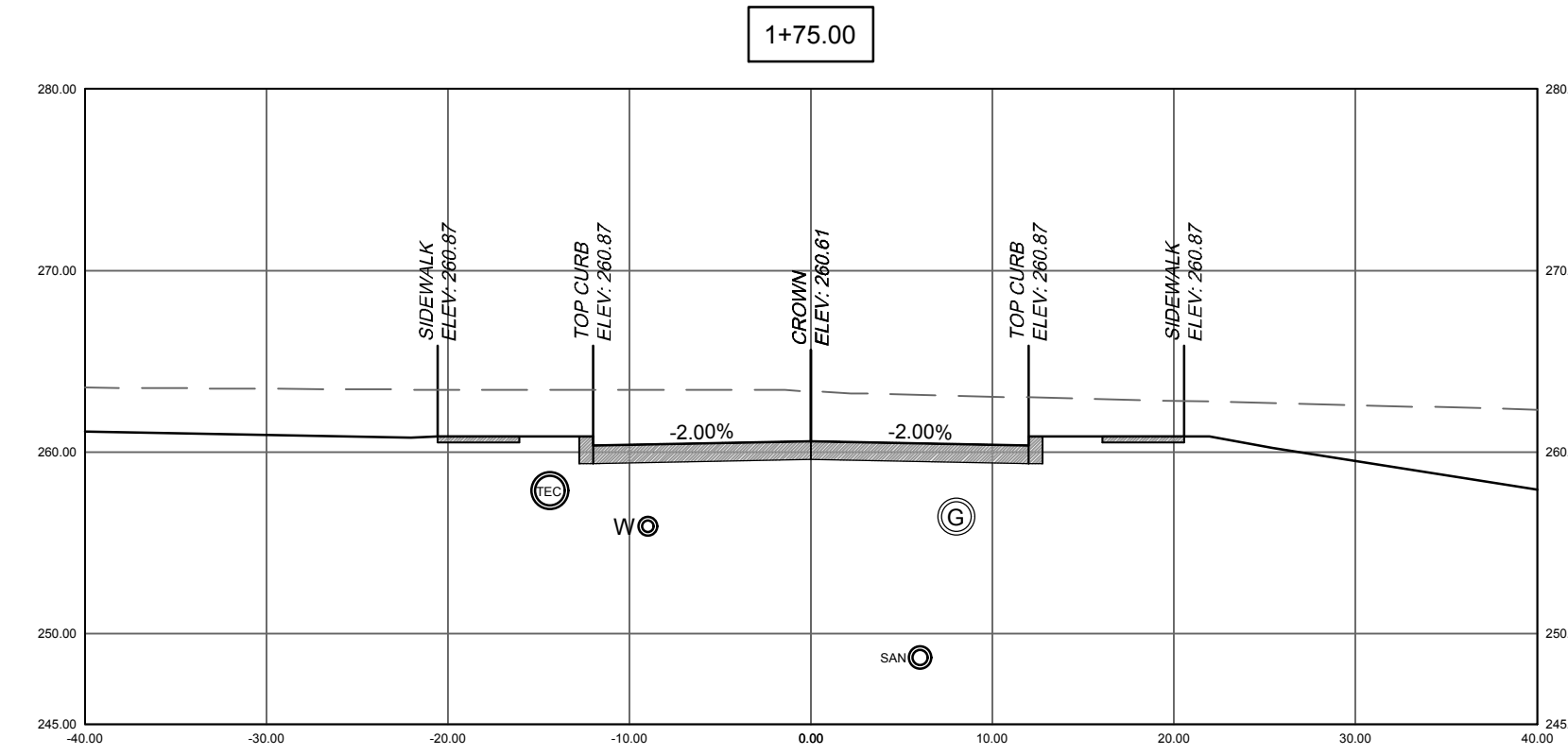
MORRIS COUNTY NEW JERSEY

TITLE: CROSS SECTIONS
DELAWARE AVE
STA 6+75 TO 9+75

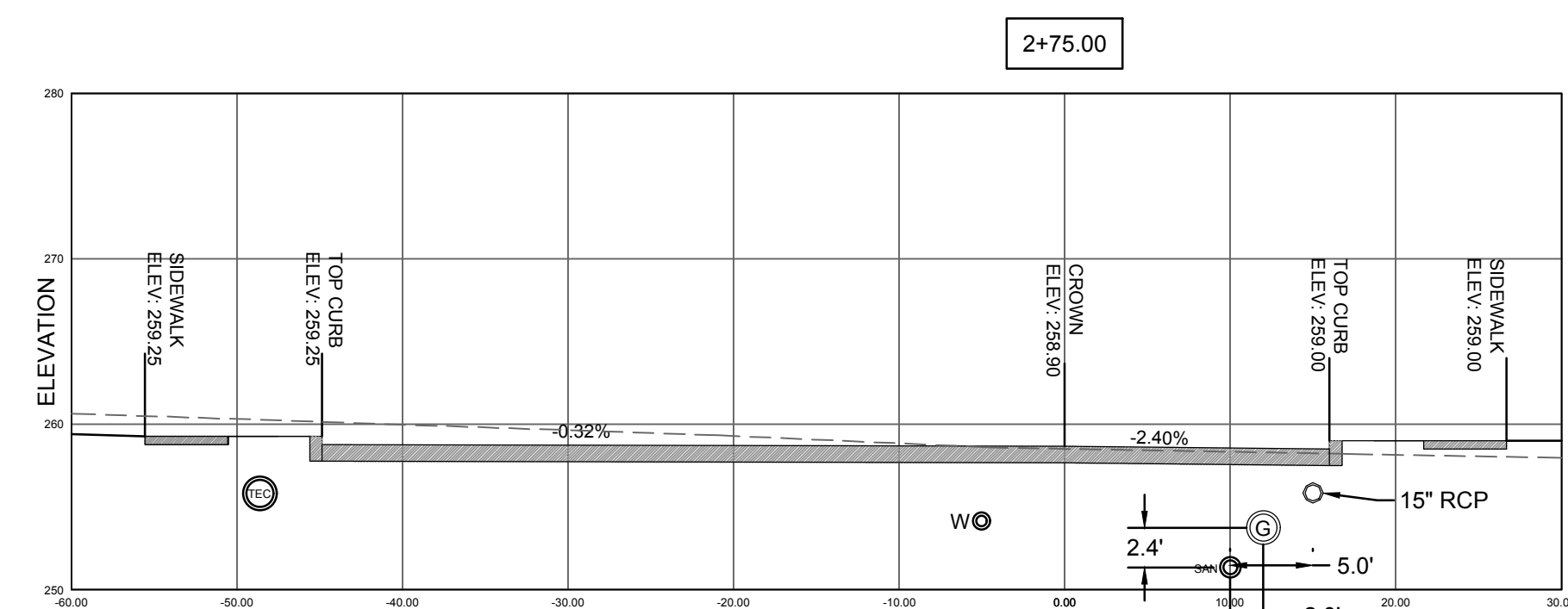
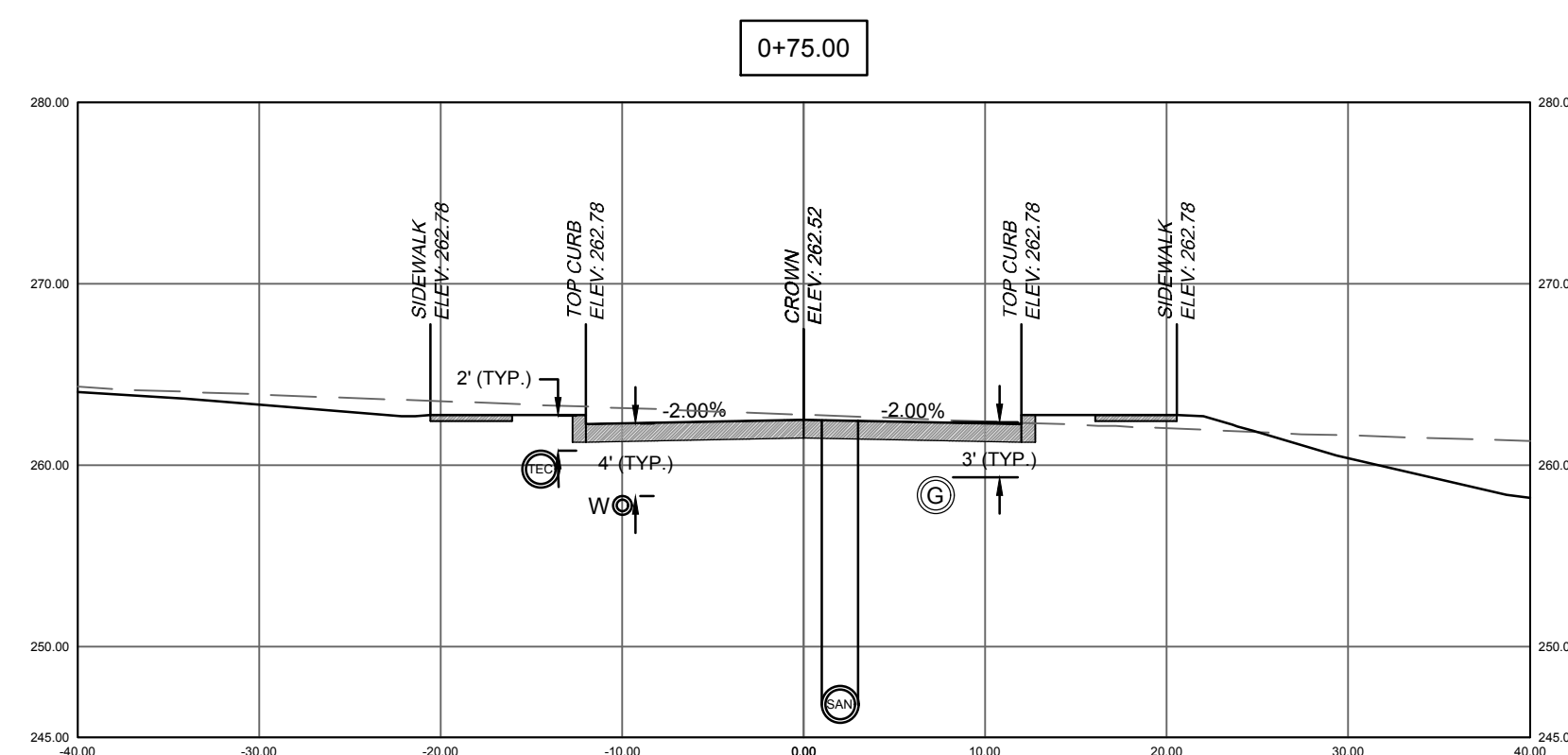
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CHECKED:	CN		
FILENAME:	07_GRADING.DWG		
DATE:	09/22/2017		

ROAD "A" CROSS SECTIONS

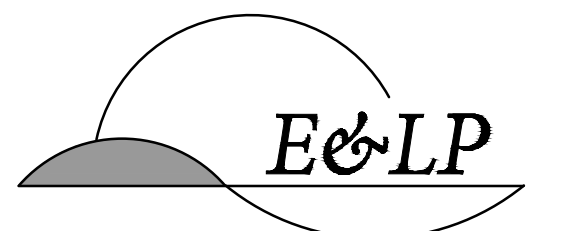
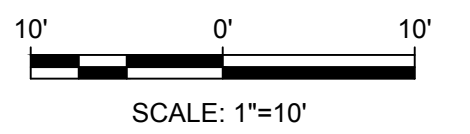
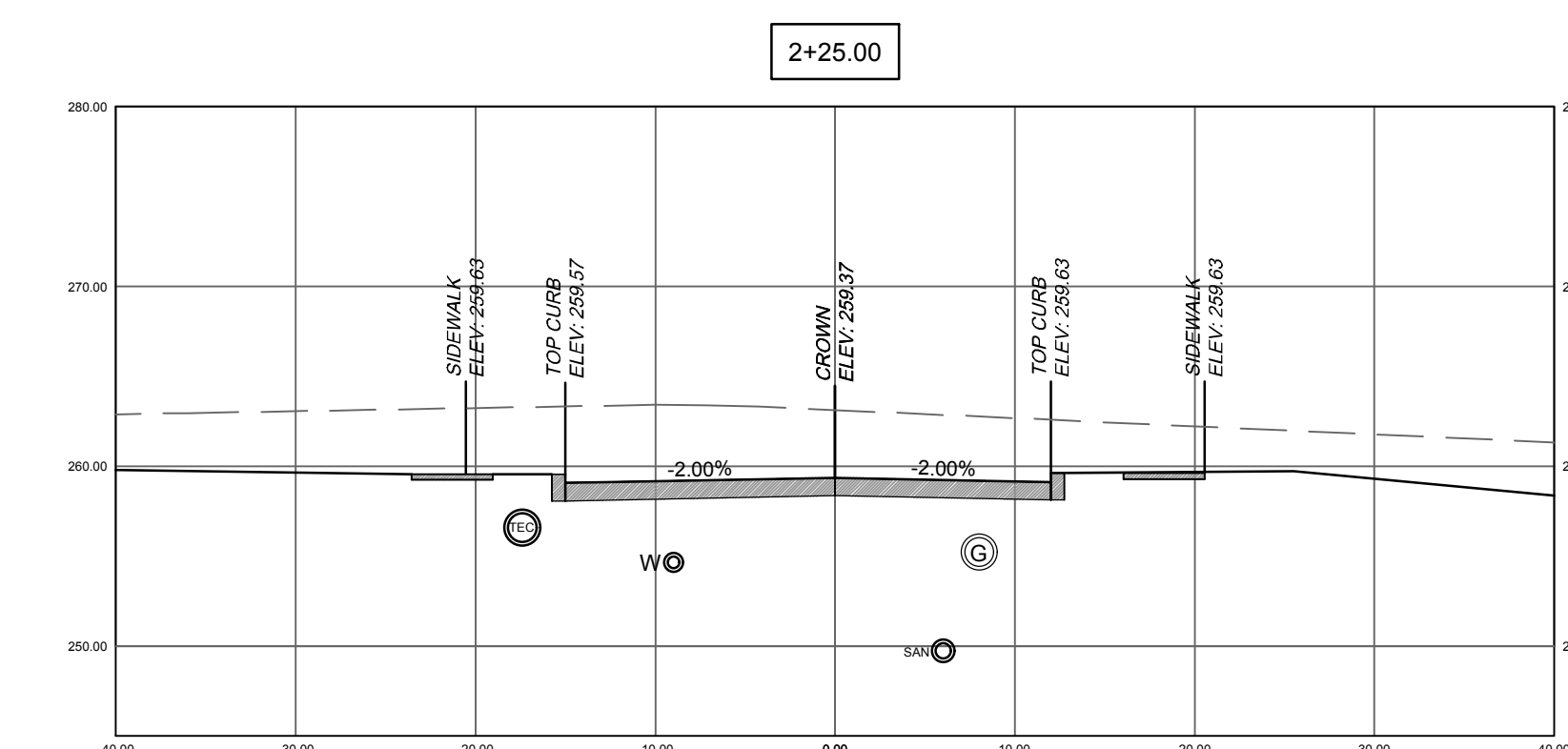
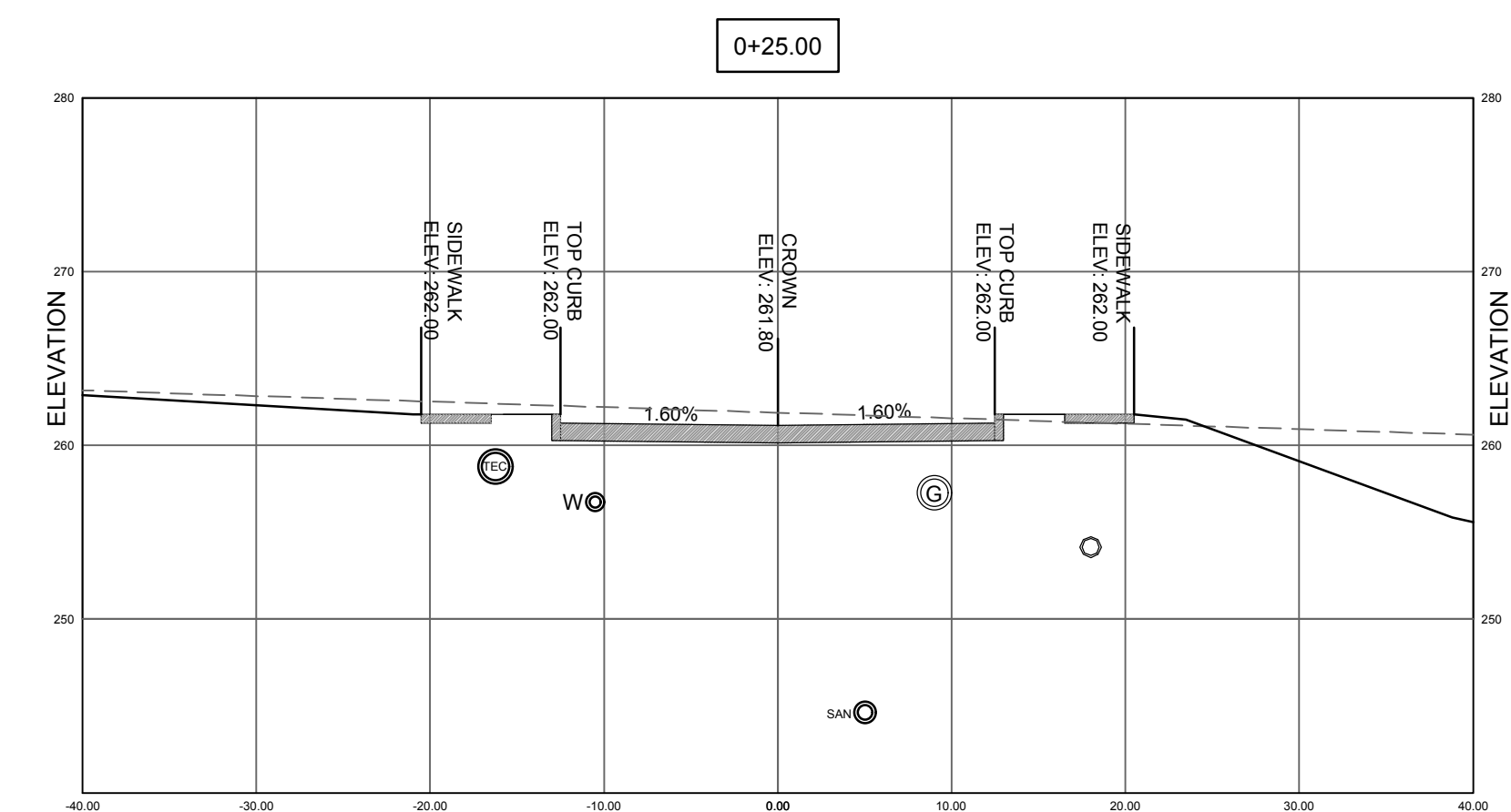
- LEGEND**
- ⊕ TEC LINE
(SIZE TO BE DETERMINED BY UTIL. CO.)
 - ⊙ GAS MAIN
(SIZE TO BE DETERMINED BY UTIL. CO.)
 - ⊕ SANITARY MAIN
(10" DIAMETER)
 - ⊙ WATER MAIN
(8" DIAMETER)
 - STORMWATER PIPE
(DIAMETER AS SHOWN)



CROSS SECTION AT CUL-DE-SAC



CROSS SECTION AT CUL-DE-SAC



140 WEST MAIN STREET HIGH BRIDGE, NJ 08829
 PH. 908-238-0544 FAX. 908-238-9572
 A PROFESSIONAL ASSOCIATION
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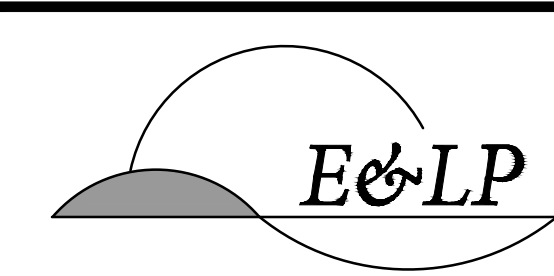
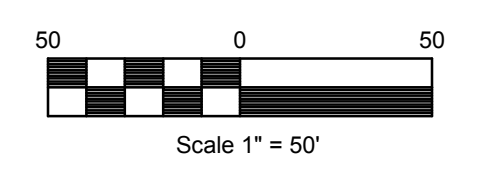
NO.	BY	DATE
4	PER TOWNSHIP ENGINEER KFO	12/15/20
3	PER TOWNSHIP ENGINEER CBR	06/05/20
2	PER TOWNSHIP COMMENTS MMS	02/04/19
1	PER TOWNSHIP COMMENTS MMS	09/07/18

12/15/2020
 DATE
 CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

PROJECT:
 MAJOR SUBDIVISION PLAN
 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
**CROSS SECTIONS
 ROAD "A"
 STA 0+25 TO 3+25**

JOB NO.: 0115210	DRAWING NO.:
SCALE: 1" = 10'	14 23
DESIGNED: MMS	
CHECKED: CN	
FILENAME: 07_GRADING.DWG	
DATE: 09/22/2017	




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1	PER TOWNSHIP COMMENTS	MMS 09/07/18

LANDSCAPING NOTES

- ALL PLANT MATERIALS SHALL BE OF NURSERY STOCK AND SHALL BE OF SYMMETRICAL GROWTH, FREE OF INSECTS, PESTS AND DISEASE. THE OWNER OR HIS REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND APPROVE ALL PLANT MATERIALS AND REJECT ANY PLANTS FOUND TO BE UNACCEPTABLE.
- COORDINATE ALL TREE LOCATIONS WITH SITE LIGHTING AND DRAINAGE STRUCTURES. ALL PLANTINGS TO BE KEPT 8' AWAY FROM ANY DRAINAGE STRUCTURE.
- DAMAGE TO EXISTING OR NEW WORK BY CONTRACTOR SHALL BE REPAIRED AT HIS EXPENSE.
- CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL UNDERGROUND UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS PRIOR TO THE SUBMISSION OF BIDS.
- REFER TO MECHANICAL AND SITE DRAWINGS FOR UTILITY INFORMATION. CONTRACTOR SHALL VERIFY PLANT LIST QUANTITIES INDICATED ON PLANS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES IN QUANTITIES PRIOR TO SUBMISSION OF BIDS.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY WITH REGARDS TO THE CARTING, STORING AND PLANTING OF MATERIALS TO PROTECT ADJACENT PAVEMENT AREAS.
- PLANT MATERIALS SHALL BE MAINTAINED BEFORE, DURING AND AFTER IN THE BEST HORTICULTURAL CONDITION. CONTRACTOR SHALL PRUNE ALL DEAD OR DISEASED LIMBS, BRANCHES AND CANES FROM EXISTING DECIDUOUS AND CONIFEROUS TREES. METHODS SHALL REFLECT BEST HORTICULTURAL PRACTICES AS OUTLINED IN THE AMERICAN NURSERYMEN ASSOCIATION CERTIFICATION AND STANDARDS LATEST EDITION.
- THE CONTRACTOR SHALL ENSURE THAT ALL PLANT MATERIALS SHALL ARRIVE AT THE SITE WITH ROOT BALL AND BURLAP INTACT.
- THE CONTRACTOR SHALL PRUNE ALL NEW MATERIAL REMOVING APPROXIMATELY ONE-THIRD OF THE GROWTH AND REMOVE ALL DEAD AND BROKEN CANES AND BRANCHES. GRADE NEW PLANTING AREAS TO MAINTAIN THE EXISTING DRAINAGE PATTERN.
- ALL TOPSOIL SHALL BE PER NJDEP REQUIREMENTS. SEE NOTES ON E&S PLAN.
- THE CONTRACTOR SHALL INSTALL ALL PLANT MATERIALS PER THE PLANTING DETAILS.
- THE CONTRACTOR SHALL REPLACE ANY PLANT MATERIALS WITHIN ONE GROWING SEASON FOR PLANT MATERIALS THAT ARE NO LONGER VIABLE
- ALL PLANT HOLES SHALL BE BACKFILLED WITH A MIXTURE OF 3 PARTS TOPSOIL TO 1 PART PEATMOSS UNLESS SPECIFIED ON PLAN ALL PLANTING BEDS TO BE MULCHED WITH 4 INCHES CLEAN FRESH SHREADED HARDWOOD BARK, FREE OF STICKS, LEAVES AND OTHER FOREIGN MATERIALS.
- ALL PLANT MATERIAL SHALL CONFORM TO THE HORTICULTURAL STANDARDS AS SET FORTH BY THE AMERICAN NURSERYMEN AND LANDSCAPING ASSOCIATION (ANLA 2000). CONTRACTOR SHALL REMOVE ALL NON-BIODEGRADABLE ROOT WRAPPING PRIOR TO PLANTING.
- TOPSOIL AND SEED ALL DISTURBED AREAS AS A RESULT OF ANY AND ALL CONSTRUCTION OR AREAS OF EQUIPMENT STORAGE EQUIPMENT. CONTRACTOR SHALL FIELD VERIFY AREAS OF SEEDING. PROVIDE TOPSOIL TO 6" DEPTH IN ALL LAWN AREA AND 20" DEPTH IN SHRUB BEDS AND GARDEN.
- ALL REMAINING DISTURBED AREAS SHALL BE SEEDED UNLESS NOTED OTHERWISE. SEE SEEDING PREPARATION NOTES. ALL LAWN AREAS TO BE FERTILIZED PRIOR TO FINAL SEEDING WITH A 10-6-4 FERTILIZER AT THE RATE OF 20 LBS/1000 SF. IN TWO APPLICATIONS.
- ALL LANDSCAPE PLANS SHALL PROVIDE A TWO (2) YEAR REPLACEMENT GUARANTEE FOR ALL NEW PLANTINGS AND ALL EXISTING TREES AND OTHER VEGETATION TO BE RETAINED AFTER CONSTRUCTION.
- ALL LANDSCAPE PLANS SHALL BE SUBJECT TO A POSTDEVELOPMENT INSPECTION BY THE TOWNSHIP PLANNER AND/OR ENGINEER AND A REPRESENTATIVE OF THE APPROVING AUTHORITY.

PLANT SCHEDULE					
SYMBOL	QTY.	COMMON NAME	BOTANICAL NAME	SIZE	NOTES
CANOPY TREES					
AR	5	RED MAPLE	ACER RUBRUM	3.5" CAL.	B&B
AS	4	SUGAR MAPLE	ACER SACCHARUM	3.5" CAL.	B&B
CJ	4	CERCIDIPHYLLUM JAPONICUM	KATSURA TREE	3.5" CAL.	B&B
GB	7	PRINCETON SENTRY GINKGO	GINKGO BILOBA 'PRINCETON SENTRY'	3.5" CAL.	B&B
GT	15	SHADEMASTER HONEYLOCUST	GLEDITSIA TRIACANTHOS 'SHADEMASTER'	3.5" CAL.	B&B
QR	8	NORTHERN RED OAK	QUERCUS RUBRA	3.5" CAL.	B&B
UNDERSTORY TREES					
CF	5	WHITE DOGWOOD	CORNUS FLORIDA	3.5" CAL.	B&B
CR	5	RED DOGWOOD	CORNUS FLORIDA 'RUBRA'	3.5" CAL.	B&B
CP	5	WASHINGTON HAWTHORN	CRATAEGUS PHAENOPYRUM	3.5" CAL.	B&B
MA	4	AMERICAN BEAUTY CRABAPPLE	MALUS 'AMERICAN BEAUTY'	3.5" CAL.	B&B
MS	4	SPRING SNOW CRABAPPLE	MALUS 'SPRING SNOW'	3.5" CAL.	B&B

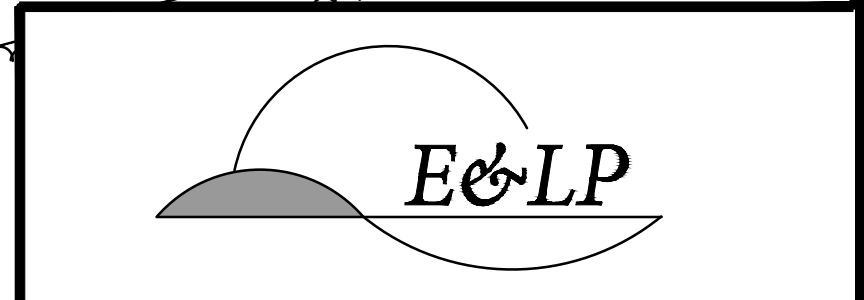
12/15/2020
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MORRIS COUNTY NEW JERSEY

LANDSCAPE PLAN

JOB NO.:	0115210	DRAWING NO.:	15 23
SCALE:	1"=50'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	07_PLANTING.DWG		
DATE:	09/22/2017		



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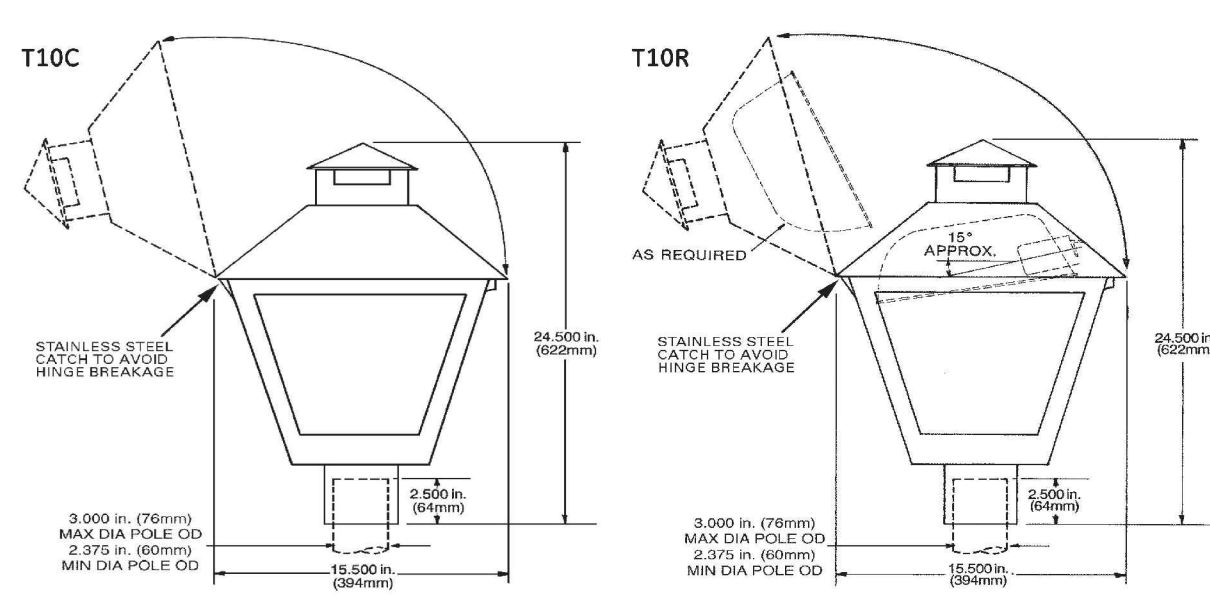
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 MORRIS COUNTY NEW JERSEY

TITLE:
 LIGHTING PLAN

JOB NO.:	0115210	DRAWING NO.:	16
SCALE:	1"=30'		23
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	08-LIGHTING.dwg		
DATE:	09/22/2017		

Product Dimensions



Product Features

GE offers a variety of decorative Post Top and Pendant Mount Lighting solutions that range from the nostalgic looks of yesterday to the sleek, modern designs of today, providing style and elegance to downtown areas, commercial developments, parks and residential communities.

- Applications**
- Residential areas and walkways
 - Shopping centers and malls
- Housing**
- Die-cast aluminum housing
- Finish**
- Powder coat paint finish

- Unique Features**
- Hinged canopy
 - Stainless steel catch to avoid hinge breakage
 - Acrylic or polycarbonate refractors
 - Integral ballast
 - Mogul base socket - E39 standard (T10C vertical; T10R horizontal - 157)
 - Plug-in igniter
 - No-tool FE receptacle
 - Optional pendant mount (Contact factory)

- Ratings**
- UL Listed Suitable for Wet Locations
 - UL listed to Canadian National Standards and Codes when polycarbonate refractor is used and "U" option is chosen

DATA	<ul style="list-style-type: none"> Approximate Net Weight: 10-16 lbs (5-7 kg) Suggested Mounting Height: 10-18 ft. (3-5 m) Effective Projected Area: 1.6 sq ft. max (0.15 sq M max)
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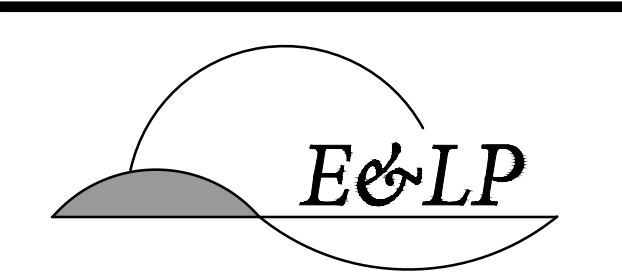
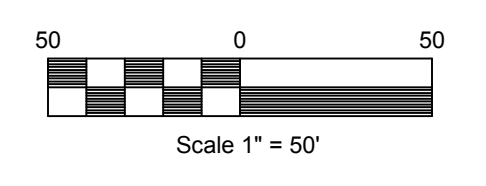
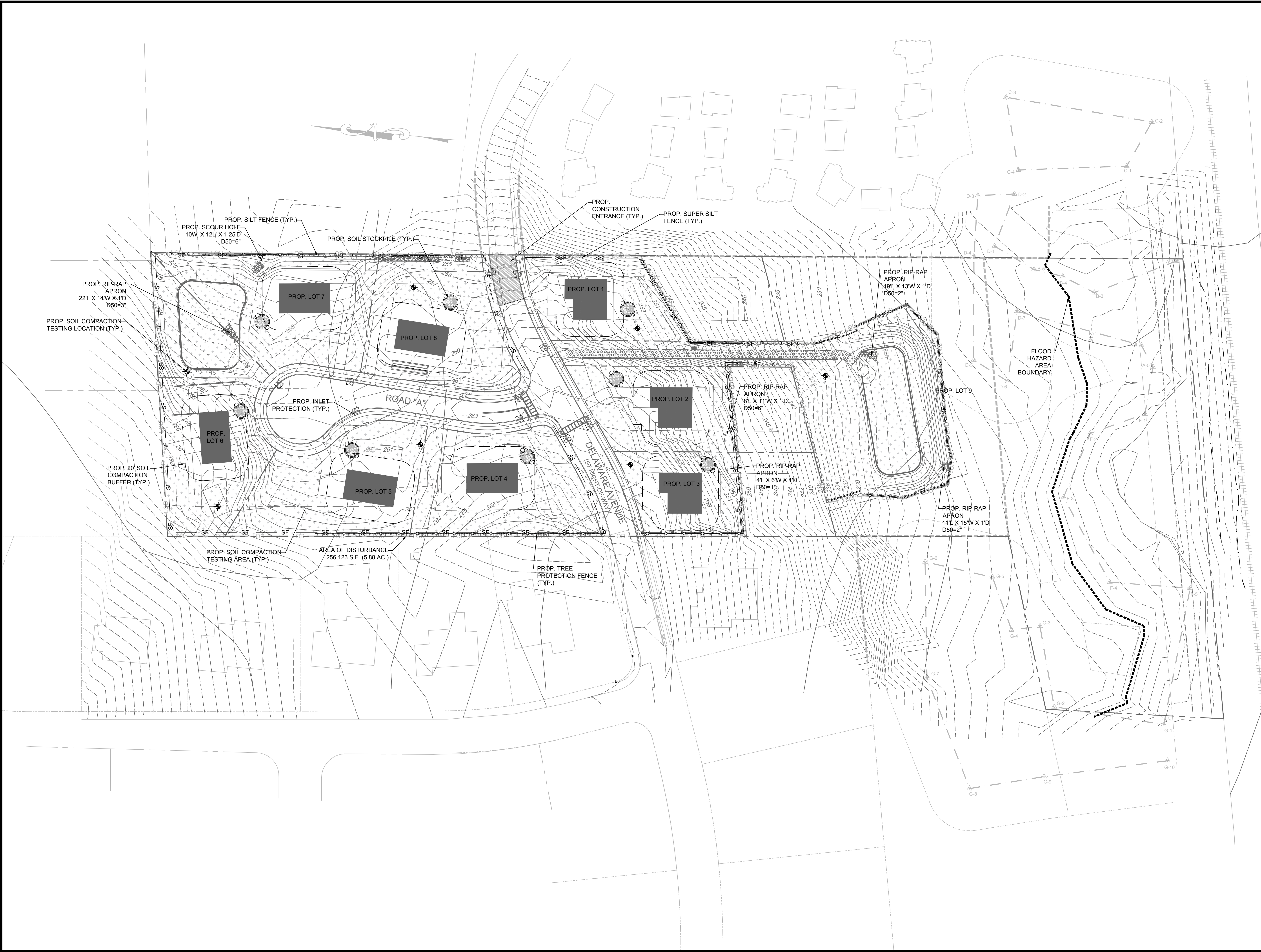
ROADWAY/INTERSECTION LIGHTING

AVERAGE	MAX	MIN
0.7 FC	7.3 FC	0.0 FC

LIGHTING SCHEDULE


SYMBOL	QTY.	MANUFACTURER	DESCRIPTION	POLE HT.	LAMP	LUMENS PER LAMP	LLF	WATTAGE
●	6	GE LIGHTING SOLUTIONS	T10R155_AMS3_TOWN AND COUNTRY	12'	150W HPS, CLEAR ED23.5.HORZ	16000	1	183

- NOTES:
- LIGHTING LEVELS DO NOT INCLUDE ANY ADDITIONAL BUILDING OR SITE LIGHTING THAT POTENTIAL HOMEOWNERS MAY INSTALL.
 - ROADWAY LIGHTS WILL BE OWNED BY MUNICIPALITY.



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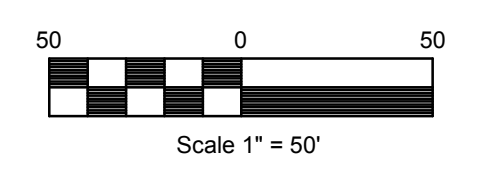
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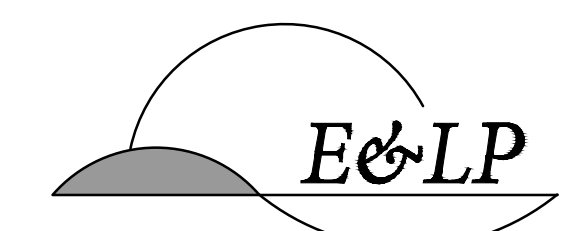
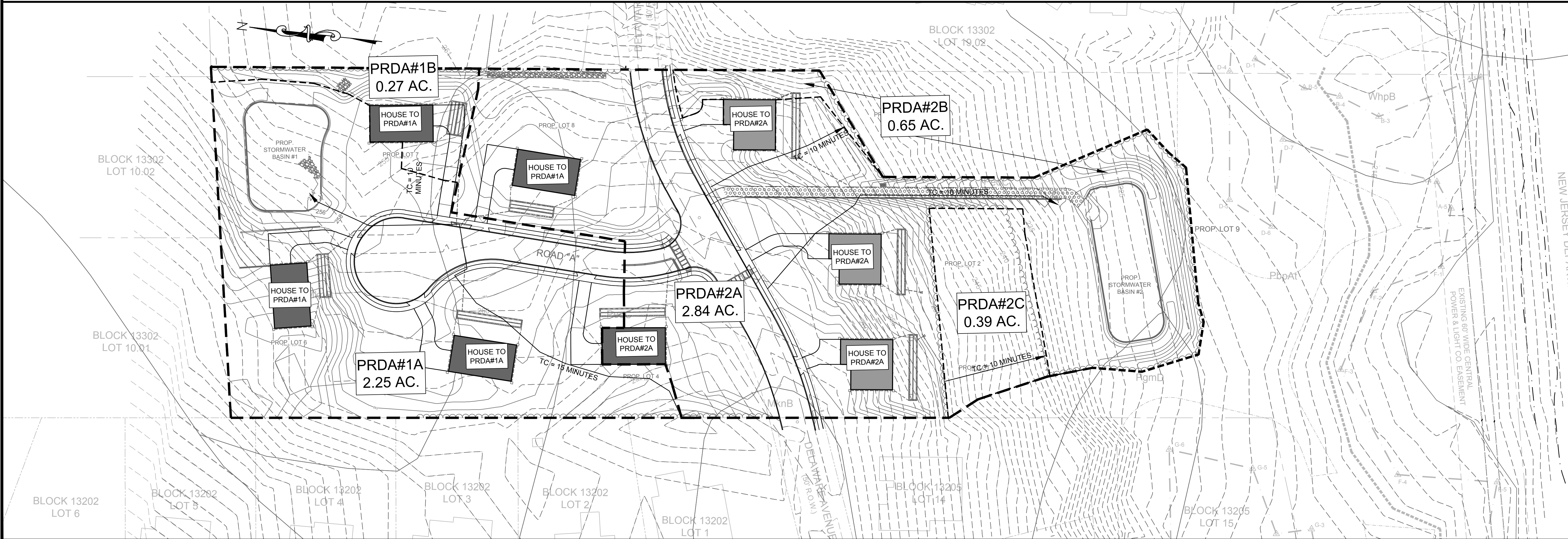
TITLE:
**SOIL EROSION AND
 SEDIMENT CONTROL PLAN**

JOB NO.:	0115210	DRAWING NO.:	17 23
SCALE:	1"=50'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	EROSION.DWG		
DATE:	09/22/2017		

EXISTING
DRAINAGE AREAS




PROPOSED
DRAINAGE AREAS



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 FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
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 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE:
**DRAINAGE AREA
 PLAN**

JOB NO.:	0115210	DRAWING NO.:	18 23
SCALE:	1"=50'		
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	DRAINAGE AREA PLAN		
DATE:	09/22/2017		

SOIL EROSION AND SEDIMENT CONTROL NOTES

- ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSTALLED IN ACCORDANCE WITH THE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY, AND WILL BE IN PLACE PRIOR TO ANY MAJOR SOIL DISTURBANCE, OR IN THEIR PROPER SEQUENCE AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED.
- ANY DISTURBED AREA THAT WILL BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PROHIBITS TEMPORARY SEEDING, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW OR HAY AND TACKED IN ACCORDANCE WITH THE NEW JERSEY STANDARDS. SEE NOTE 21 BELOW.
- PERMANENT VEGETATION IS TO BE ESTABLISHED ON EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH IS TO BE USED FOR PROTECTION UNTIL VEGETATION IS ESTABLISHED. SEE NOTE 22 BELOW.
- IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS (STEEP SLOPES, SANDY SOILS, WET CONDITIONS) SUBJECT TO EROSION WILL RECEIVE A TEMPORARY SEEDING IN ACCORDANCE WITH NOTE 21 BELOW.
- TEMPORARY DIVERSION BERMS ARE TO BE INSTALLED ON ALL CLEARED ROADWAYS AND EASEMENT AREAS. SEE THE DIVERSION DETAIL.
- PERMANENT SEEDING AND STABILIZATION TO BE IN ACCORDANCE WITH THE "STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION COVER", SPECIFIED RATES AND LOCATIONS SHALL BE ON THE APPROVED SOIL EROSION AND SEDIMENT CONTROL PLAN.
- THE SITE SHALL AT ALL TIMES BE GRADED AND MAINTAINED SO THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
- ALL SEDIMENTATION STRUCTURES (SILT FENCE, INLET FILTERS, AND SEDIMENT BASINS) WILL BE INSPECTED AND MAINTAINED DAILY.
- STOCKPILES SHALL NOT BE LOCATED WITHIN 50' OF A FLOODPLAIN, SLOPE, DRAINAGE FACILITY, OR ROADWAY. ALL STOCKPILES BASES SHALL HAVE A SILT FENCE PROPERLY ENTRENCHED AT THE TOE OF SLOPE.
- A STABILIZED CONSTRUCTION ACCESS WILL BE INSTALLED, WHENEVER AN EARTHEN ROAD INTERSECTS WITH A PAVED ROAD. SEE THE STABILIZED CONSTRUCTION ACCESS DETAIL AND CHART FOR DIMENSIONS.
- ALL NEW ROADWAYS WILL BE TREATED WITH SUITABLE SUBBASE UPON ESTABLISHMENT OF FINAL GRADE ELEVATIONS.
- PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
- BEFORE DISCHARGE POINTS BECOME OPERATIONAL, ALL STORM DRAINAGE OUTLETS WILL BE STABILIZED AS REQUIRED.
- ALL DEWATERING OPERATIONS MUST BE DISCHARGED DIRECTLY INTO A SEDIMENT FILTER AREA. THE FILTER SHOULD BE COMPOSED OF A FABRIC OR APPROVED MATERIAL. SEE THE DEWATERING DETAIL.
- ALL SEDIMENT BASINS WILL BE CLEANED WHEN THE CAPACITY HAS BEEN REDUCED BY 50%. A CLEAN OUT ELEVATION WILL BE IDENTIFIED ON THE PLAN AND A MARKER INSTALLED ON THE SITE.
- DURING AND AFTER CONSTRUCTION, THE APPLICANT WILL BE RESPONSIBLE FOR THE MAINTENANCE AND UPKEEP OF THE DRAINAGE STRUCTURES, VEGETATION COVER, AND ANY OTHER MEASURES DEEMED APPROPRIATE BY THE DISTRICT. SAID RESPONSIBILITY WILL END WHEN COMPLETED WORK IS APPROVED BY THE MORRIS COUNTY SOIL CONSERVATION DISTRICT.
- ALL TREES OUTSIDE THE DISTURBANCE LIMIT INDICATED ON THE SUBJECT PLAN OR THOSE TREES WITHIN THE DISTURBANCE AREA WHICH ARE DESIGNATED TO REMAIN AFTER CONSTRUCTION ARE TO BE PROTECTED WITH TREE PROTECTION DEVICES. SEE THE TREE PROTECTION DETAIL.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MAY REQUEST ADDITIONAL MEASURES TO MINIMIZE ON SITE OR OFF SITE EROSION PROBLEMS DURING CONSTRUCTION.
- THE MORRIS COUNTY SOIL CONSERVATION DISTRICT MUST BE NOTIFIED, IN WRITING, AT LEAST 72 HOURS PRIOR TO ANY LAND DISTURBANCE, AND A PRE-CONSTRUCTION MEETING HELD.
- CONTRACTOR TO SET UP A MEETING WITH THE INSPECTOR FOR PERIODIC INSPECTIONS OF THE TEMPORARY SEDIMENT BASIN PRIOR TO AND DURING ITS CONSTRUCTION.
- TOPSOIL STOCKPILE PROTECTION
 - LIME RATE SHALL BE ESTABLISHED VIA SOIL TESTING.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
 - APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 SQ. FT.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
 - PROPERTY ENTRENCH A SILT FENCE AT THE BOTTOM OF THE STOCKPILE.
- TEMPORARY STABILIZATION SPECIFICATIONS
 - LIME RATE SHALL BE ESTABLISHED VIA SOIL TESTING.
 - APPLY FERTILIZER (10-20-10) AT A RATE OF 11 LBS. PER 1000 SQ. FT.
 - APPLY PERENNIAL RYEGRASS SEED AT 1 LB. PER 1000 SQ. FT. AND ANNUAL RYEGRASS AT 1 LB. PER 1000 SQ. FT.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.
- PERMANENT STABILIZATION SPECIFICATIONS
 - APPLY TOPSOIL TO A DEPTH OF 5 INCHES (UNSETTLED).
 - LIME RATE SHALL BE ESTABLISHED VIA SOIL TESTING
 - APPLY FERTILIZER (10-20-10) AT A OF RATE 11 LBS. PER 1000 SQ. FT.
 - APPLY HARD FESCUE SEED AT 2.7 LBS. PER 1000 SQ. FT. AND CREEPING RED FESCUE SEED AT 0.7 LBS PER 1000 SQ. FT. AND PERENNIAL RYEGRASS SEED AT 0.25 LBS PER 1000 SQ. FT.
 - MULCH STOCKPILE WITH STRAW OR HAY AT A RATE OF 90 LBS. PER 1000 SQ. FT.
 - APPLY A LIQUID MULCH BINDER OR TACK TO STRAW OR HAY MULCH.

*NOTE: 72 HOURS PRIOR TO ANY SOIL DISTURBANCE, NOTICE IN WRITING, SHALL BE GIVEN TO THE MORRIS COUNTY SOIL CONSERVATION DISTRICT AND A PRE-CONSTRUCTION MEETING HELD.

CONSTRUCTION SEQUENCE

- INSTALL ALL SEDIMENT FILTER FENCE 1 WEEK
- SITE CLEARING & ROUGH GRADING 10 WEEKS
- CONSTRUCTION OF SITE IMPROVEMENTS AND DEMOLITION 40 WEEKS
- RESTORE ALL AREAS AS APPROPRIATE COMPLETION OF CONSTRUCTION 1 WEEK
- REMOVE SOIL EROSION AND SEDIMENT CONTROL DEVICES. 1 WEEK

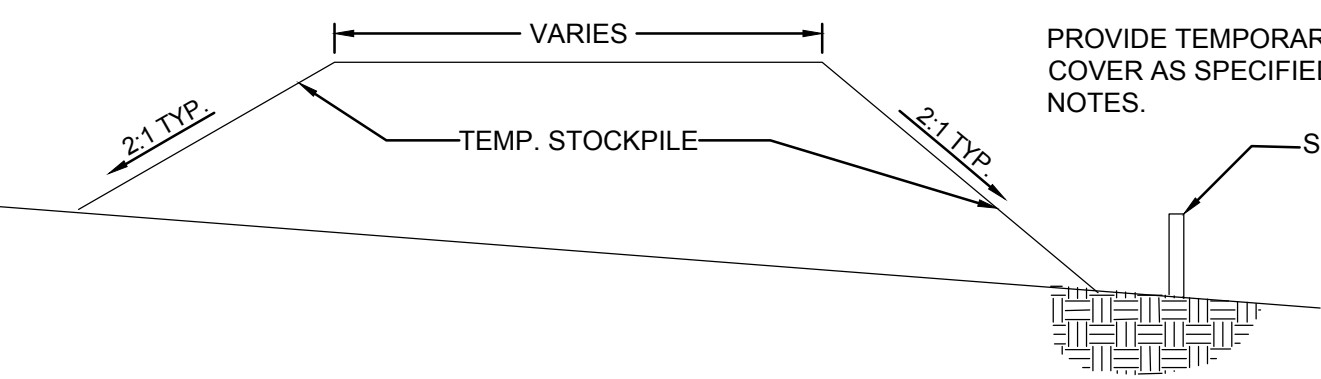
LIMIT OF DISTURBANCE: 7.73 AC. (336,687 S.F.)

DESIGN CRITERIA

STONE SIZE - USE ASTM C-33, SIZE No. 2 (2 1/2 TO 1 1/2") OR 3 (2 to 1 1/2"). USE CLEAN CRUSHED ANGULAR STONE. CRUSHED CONCRETE OF SIMILAR SIZE MAY BE SUBSTITUTED BUT WILL REQUIRE MORE FREQUENT UPGRADING AND MAINTENANCE. THICKNESS-NOT LESS THAN SIX (6) INCHES. WIDTH-NOT LESS THAN FULL WIDTH OF POINTS OF INGRESS OR EGRESS.

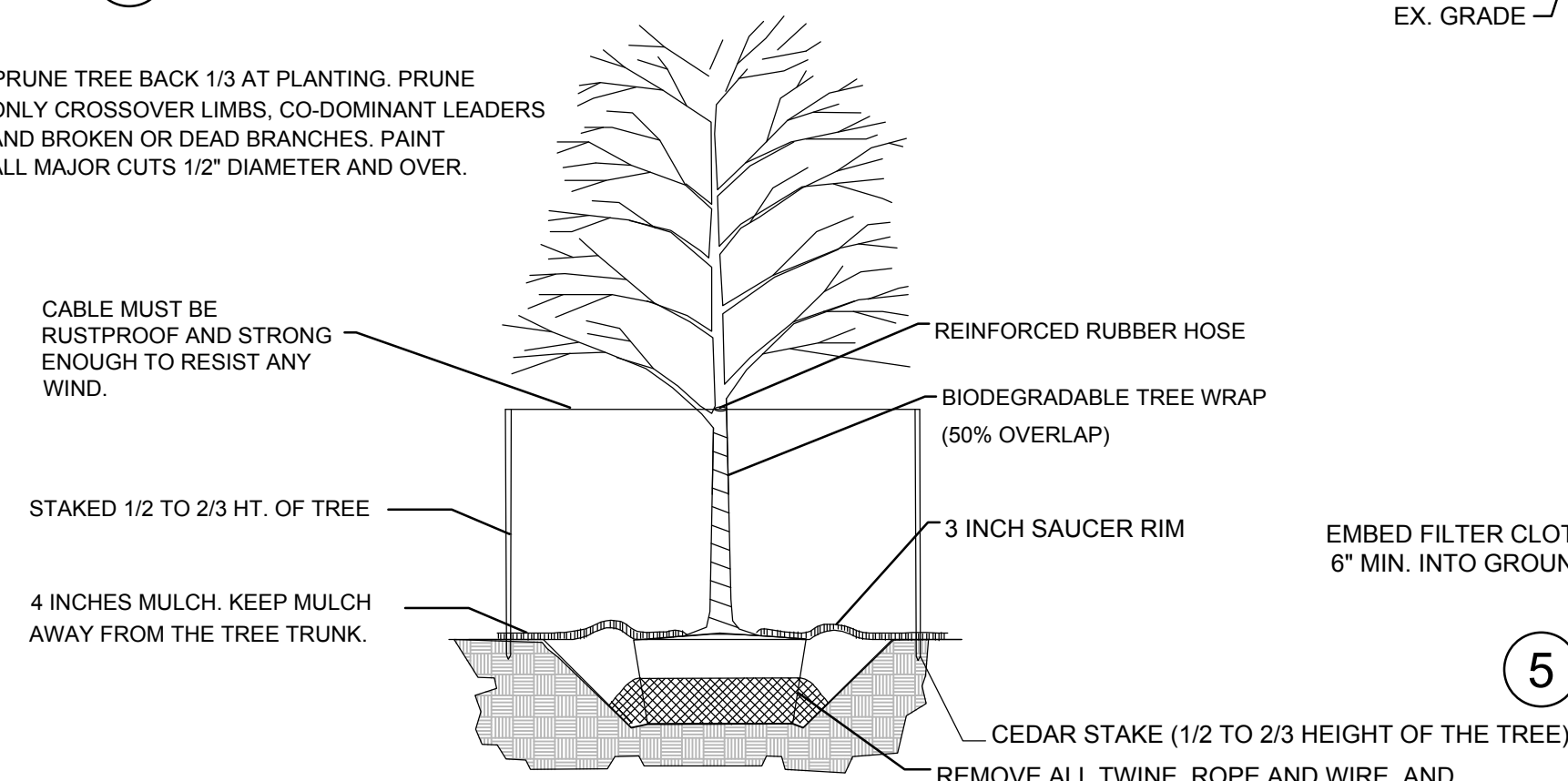
NOTE:

PROVIDE TEMPORARY GRASS COVER AS SPECIFIED IN SCS NOTES.

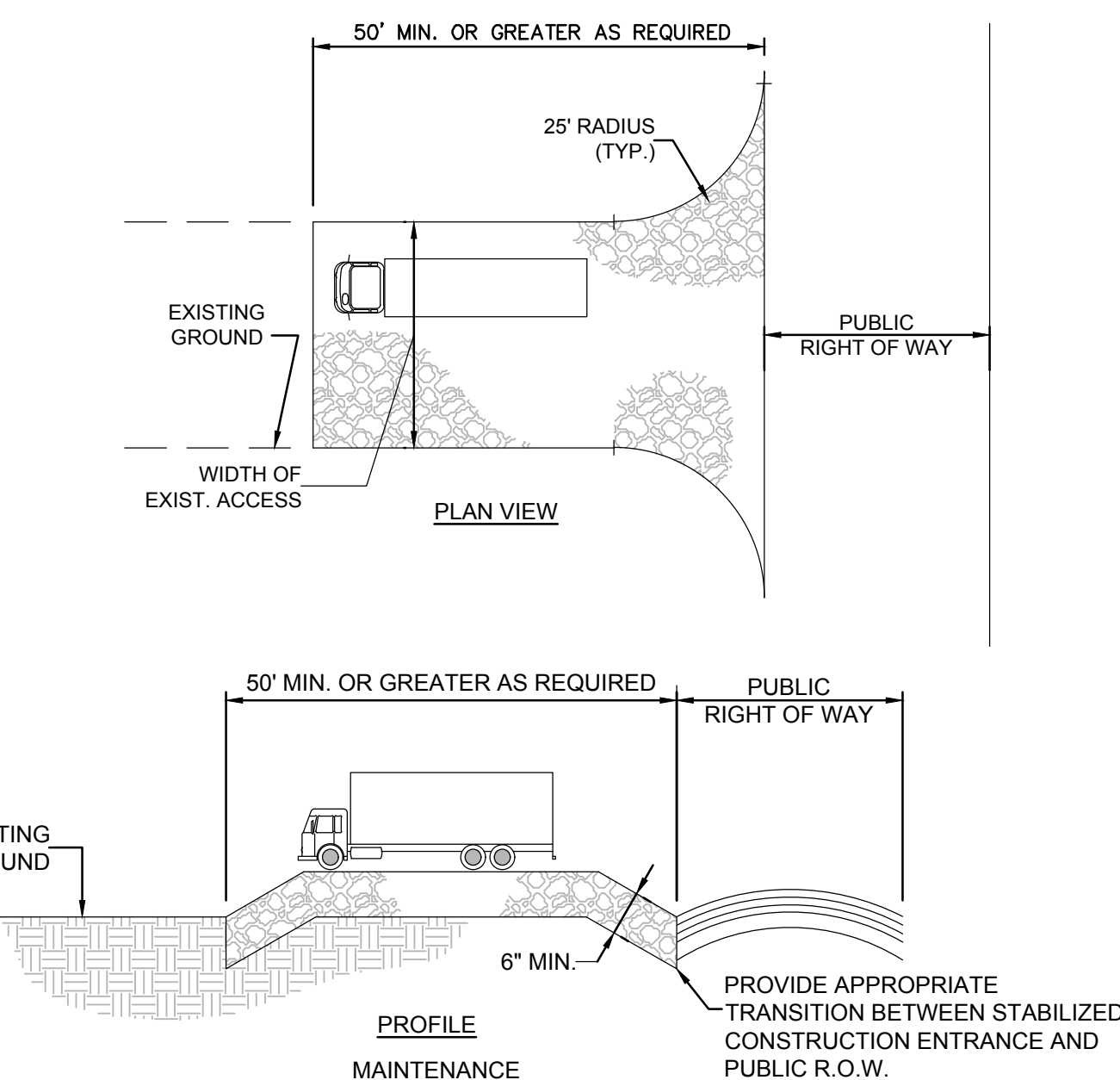


1 TEMPORARY STOCKPILE

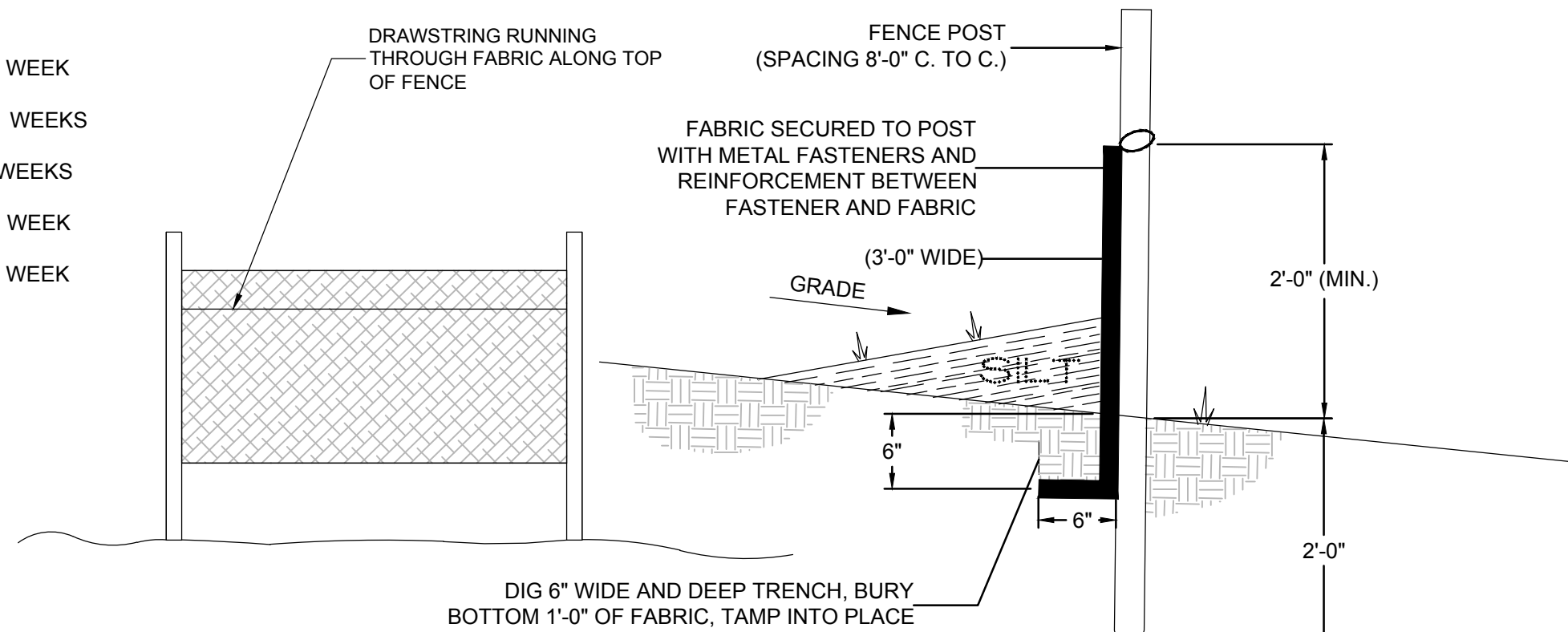
PRUNE TREE BACK 1/3 AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS AND BROKEN OR DEAD BRANCHES. PAINT ALL MAJOR CUTS 1/2" DIAMETER AND OVER.



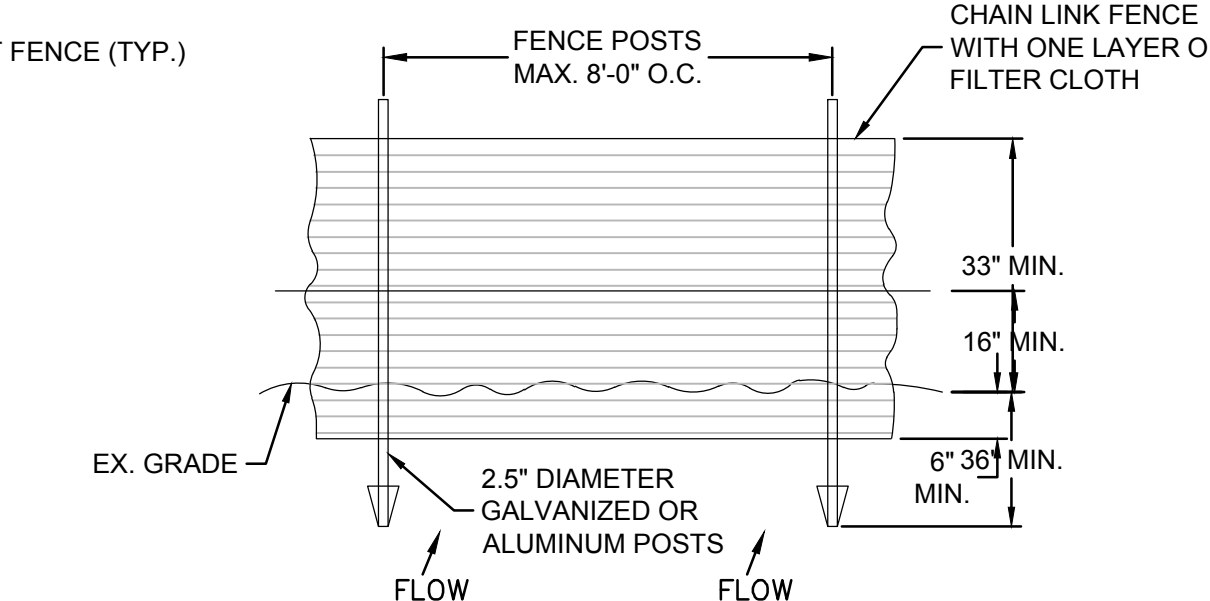
4 TREE PLANTING DETAIL



7 STABILIZED CONSTRUCTION ACCESS



2 SILT FENCE DETAIL



5 SUPER SILT FENCE DETAIL

SOIL DE-COMPACTION AND TESTING REQUIREMENTS

SOIL COMPACTION TESTING REQUIREMENTS

- SUBGRADE SOILS PRIOR TO THE APPLICATION OF TOPSOIL (SEE PERMANENT SEEDING AND STABILIZATION NOTES FOR TOPSOIL REQUIREMENTS) SHALL BE FREE OF EXCESSIVE COMPACTION TO A DEPTH OF 6.0 INCHES TO ENHANCE THE ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.
- AREAS OF THE SITE WHICH ARE SUBJECT TO COMPACTION TESTING AND/OR MITIGATION ARE GRAPHICALLY DENOTED ON THE CERTIFIED SOIL EROSION CONTROL PLAN.
- COMPACTION TESTING LOCATIONS ARE DENOTED ON THE PLAN. A COPY OF THE PLAN OR PORTION OF THE PLAN SHALL BE USED TO MARK LOCATIONS OF TESTS, AND ATTACHED TO THE COMPACTION REMEDIATION FORM, AVAILABLE FROM THE LOCAL SOIL CONSERVATION DISTRICT. THIS FORM MUST BE FILLED OUT AND SUBMITTED PRIOR TO RECEIVING A CERTIFICATE OF COMPLIANCE FROM THE DISTRICT.
- IN THE EVENT THAT TESTING INDICATES COMPACTION IN EXCESS OF THE MAXIMUM THRESHOLDS INDICATED FOR THE SIMPLIFIED TESTING METHODS (SEE DETAILS BELOW), THE CONTRACTOR/OWNER SHALL HAVE THE OPTION TO PERFORM EITHER (1) COMPACTION MITIGATION OVER THE ENTIRE MITIGATION AREA DENOTED ON THE PLAN (EXCLUDING EXEMPT AREAS), OR (2) PERFORM ADDITIONAL MORE DETAILED TESTING TO ESTABLISH THE LIMITS OF EXCESSIVE COMPACTION WHEREUPON ONLY THE EXCESSIVELY COMPACTED AREAS WOULD REQUIRE COMPACTION MITIGATION. ADDITIONAL DETAILED TESTING SHALL BE PERFORMED BY A TRAINED, LICENSED PROFESSIONAL.

COMPACTION TESTING METHODS

- PROBING WIRE TEST (SEE DETAIL)
- HAND-HELD PENETROMETER TEST (SEE DETAIL)
- TUBE BULK DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)
- NUCLEAR DENSITY TEST (LICENSED PROFESSIONAL ENGINEER REQUIRED)

NOTE: ADDITIONAL TESTING METHODS WHICH CONFORM TO ASTM STANDARDS AND SPECIFICATIONS, AND WHICH PRODUCE A DRY WEIGHT, SOIL BULK DENSITY MEASUREMENT MAY BE ALLOWED SUBJECT TO DISTRICT APPROVAL.

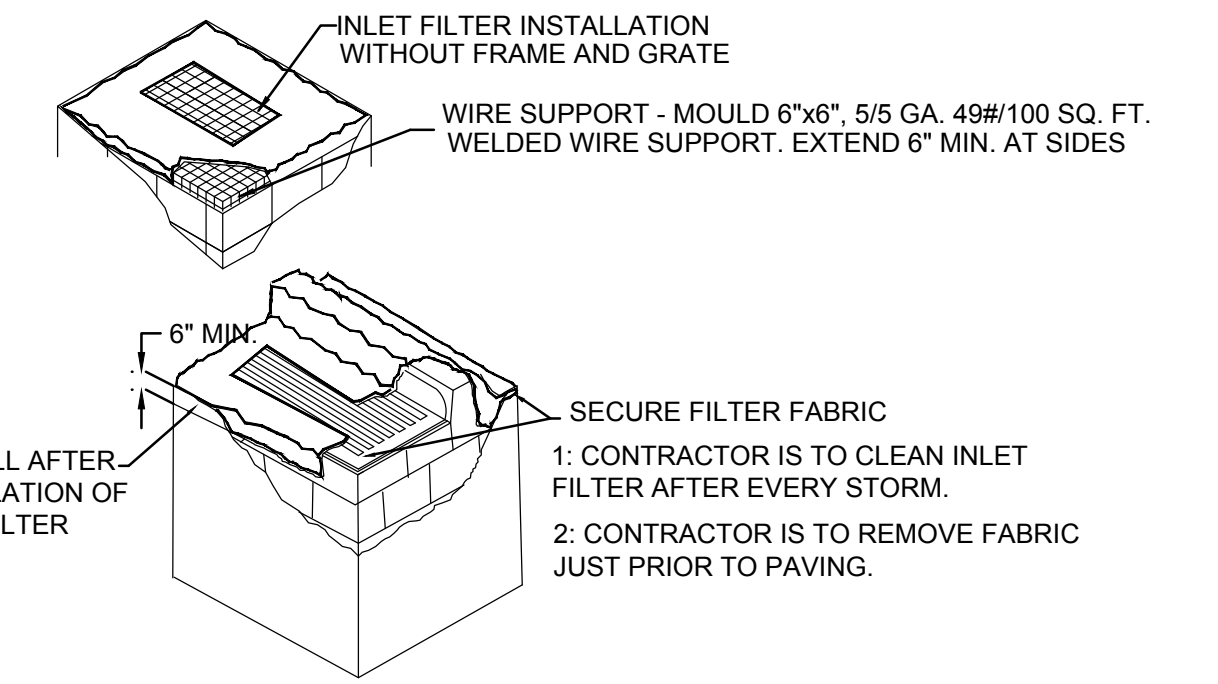
SOIL COMPACTION TESTING IS NOT REQUIRED IF/WHEN SUBSOIL COMPACTION REMEDIATION (SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) OR SIMILAR) IS PROPOSED AS PART OF THE SEQUENCE OF CONSTRUCTION.

PROCEDURES FOR SOIL COMPACTION MITIGATION

PROCEDURES SHALL BE USED TO MITIGATE EXCESSIVE SOIL COMPACTION PRIOR TO PLACEMENT OF TOPSOIL AND ESTABLISHMENT OF PERMANENT VEGETATIVE COVER.

RESTORATION OF COMPACTED SOILS SHALL BE THROUGH DEEP SCARIFICATION/TILLAGE (6" MINIMUM DEPTH) WHERE THERE IS NO DANGER TO UNDERGROUND UTILITIES (CABLES, IRRIGATION SYSTEMS, ETC.). IN THE ALTERNATIVE, ANOTHER METHOD AS SPECIFIED BY A NEW JERSEY LICENSED PROFESSIONAL ENGINEER MAY BE SUBSTITUTED SUBJECT TO DISTRICT APPROVAL.

8 SOIL COMPACTION DETAIL

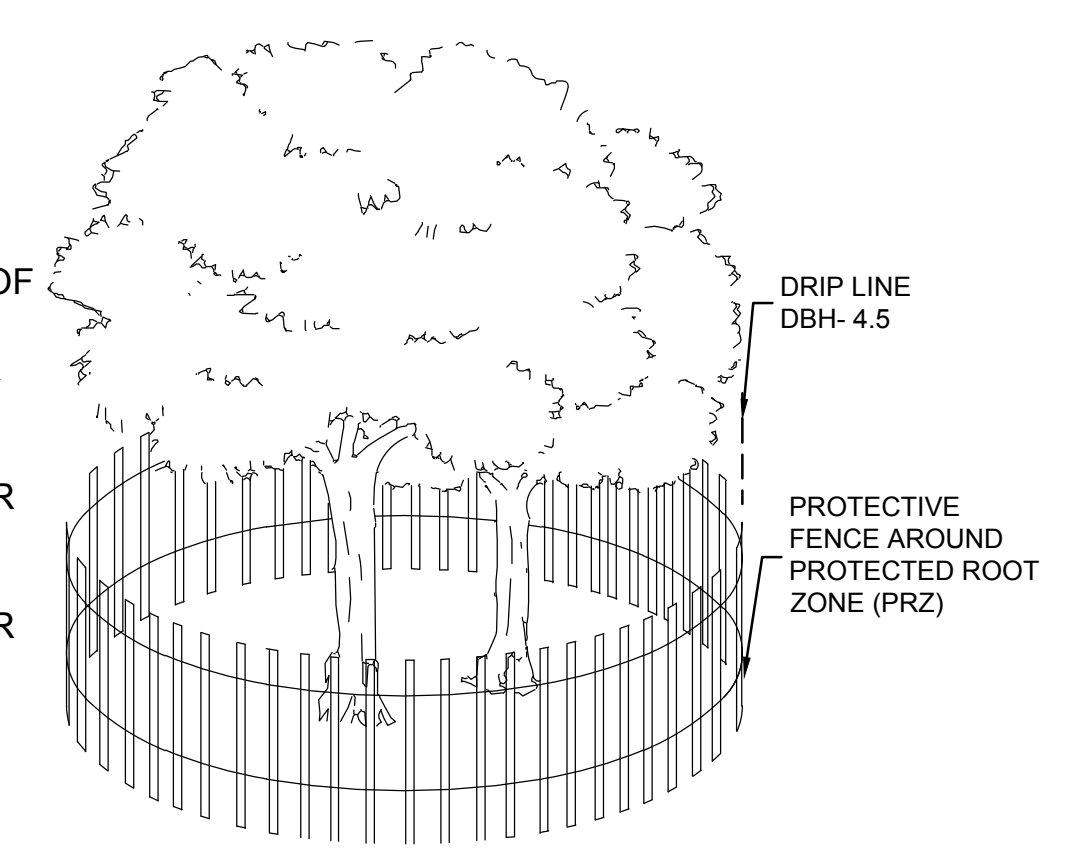


3 INLET FILTER DETAIL

ESTIMATE A TREE'S PROTECTED ROOT ZONE (PRZ) BY CALCULATING THE CRITICAL ROOT RADIUS (CRR)

- MEASURE THE DBH (DIAMETER OF TREE AT BREAST HEIGHT, 4.5 FEET ABOVE GROUND ON THE UPHILL SIDE OF TREE IN INCHES)
- MULTIPLY MEASURED DBH BY 1.5 OR 1.0. EXPRESS THE RESULT IN FEET.

-DBH X 1.5: CRITICAL ROOT RADIUS FOR OLDER, UNHEALTHY OR SENSITIVE SPECIES.
-DBH X 1.0: CRITICAL ROOT RADIUS FOR YOUNGER, HEALTHY OR TOLERANT SPECIES.

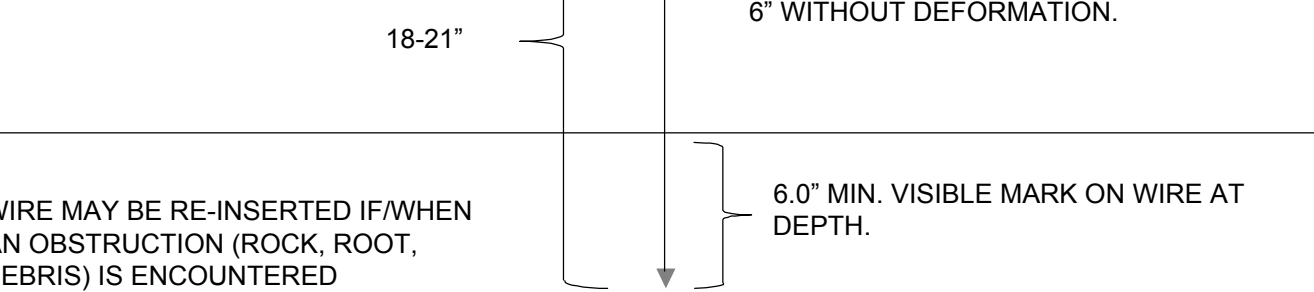


6 TREE PROTECTION DETAIL

SIMPLIFIED TESTING METHODS

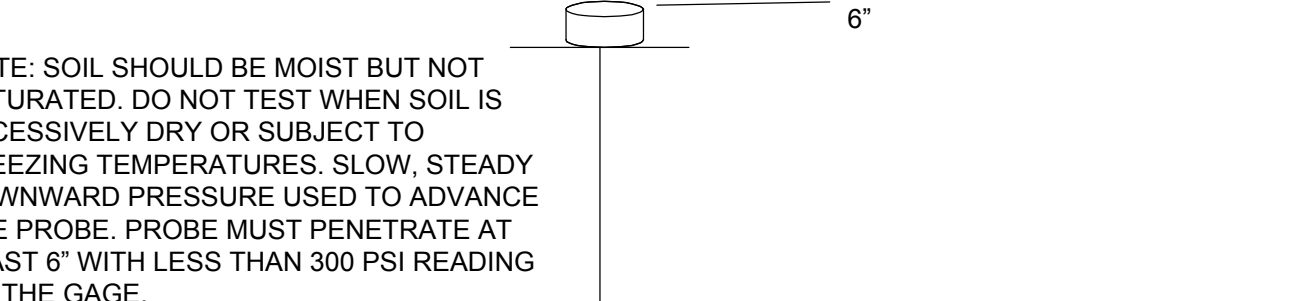
PROBING WIRE TEST- 15.5 GA STEEL WIRE (SURVEY FLAG)

NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.



HANDHELD SOIL PENETROMETER TEST

WIRE MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED



NOTE: SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAGE.

PENETROMETER MAY BE RE-INSERTED IF/WHEN AN OBSTRUCTION (ROCK, ROOT, DEBRIS) IS ENCOUNTERED.

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12/15/2020 DATE

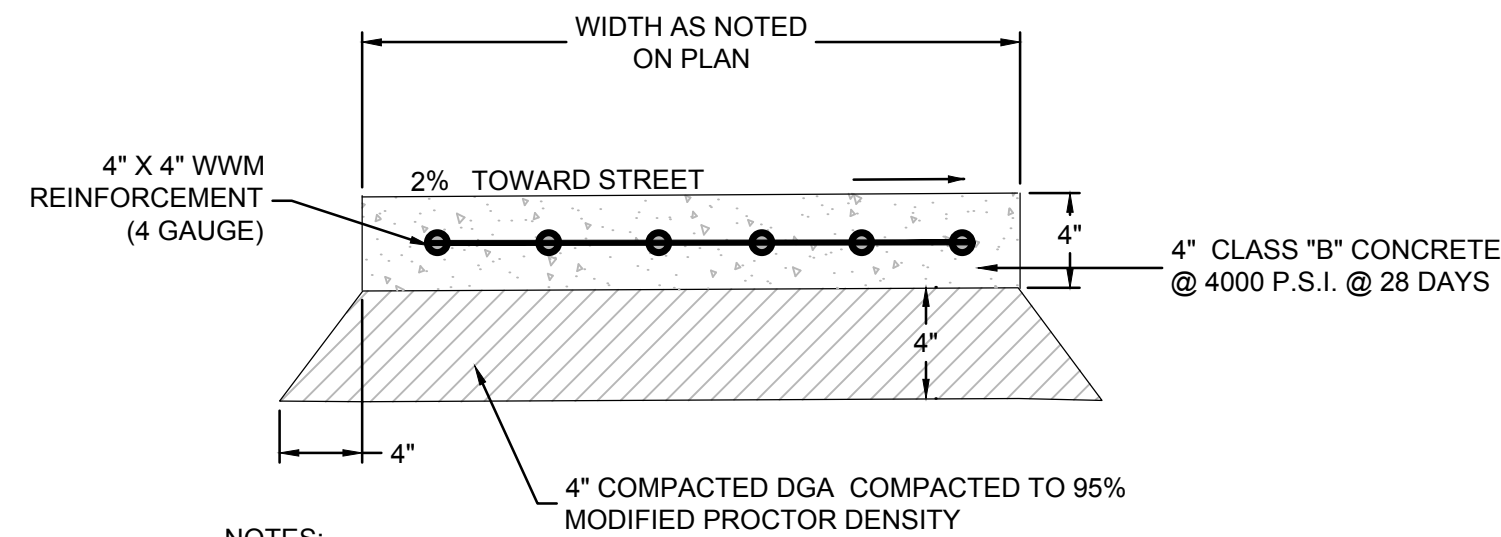
CHRISTOPHER NUSSER
PROFESSIONAL ENGINEER
N.J. P.E. NO. 24GE049025

PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI
BLOCK 13302, LOT 16.01
DELAWARE AVENUE
LONG HILL TOWNSHIP

MORRIS COUNTY NEW JERSEY

TITLE: SOIL EROSION AND SEDIMENT CONTROL DETAILS

JOB NO.: 0115210	DRAWING NO.: 19
SCALE: AS SHOWN	23
DESIGNED: MMS	
CHECKED: CN	
FILENAME: XX-DETAILS.DWG	
DATE: 09/22/2017	



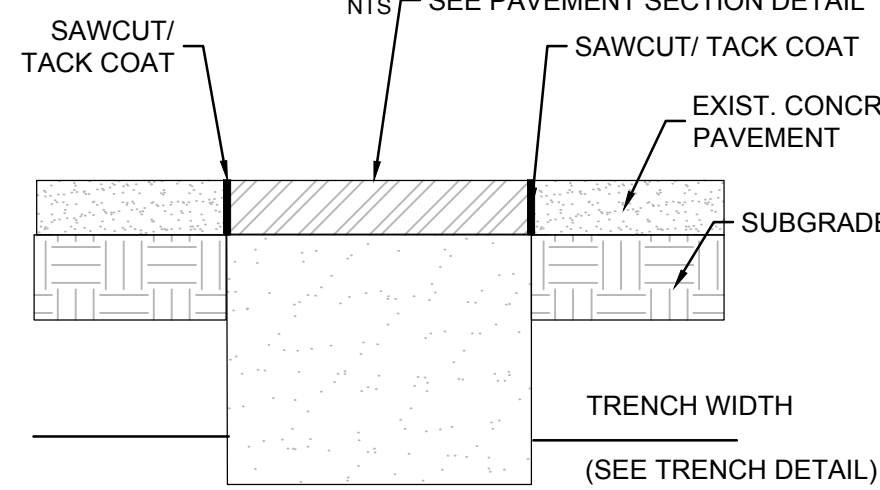
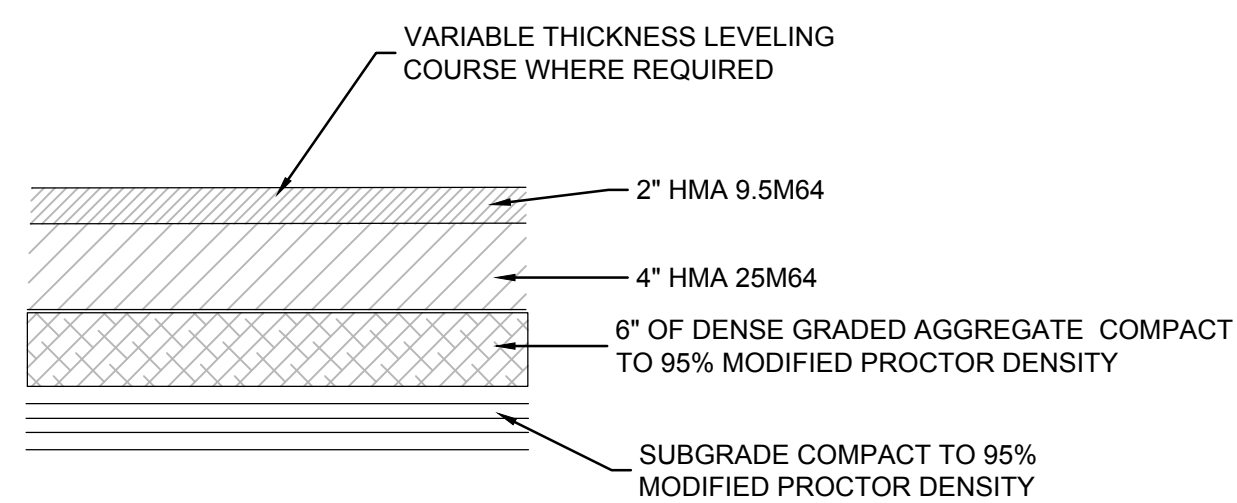
NOTES:

- CONSTRUCTION JOINTS AT 4'-0" O.C. WITH 1/2" BITUMINOUS PREMOULDED EXPANSION JOINT EVERY 20'-0" AND WHERE SIDEWALK ABUTS EXISTING BUILDINGS, CURBS, OR WALKS. TOOL ALL EDGES 1/2" R.
- ALL SIDEWALK CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TOWN STANDARD.
- SIDEWALK THICKNESS TO BE INCREASED TO 6" AT ALL DRIVEWAY CROSSINGS.

1 STANDARD SIDEWALK DETAIL

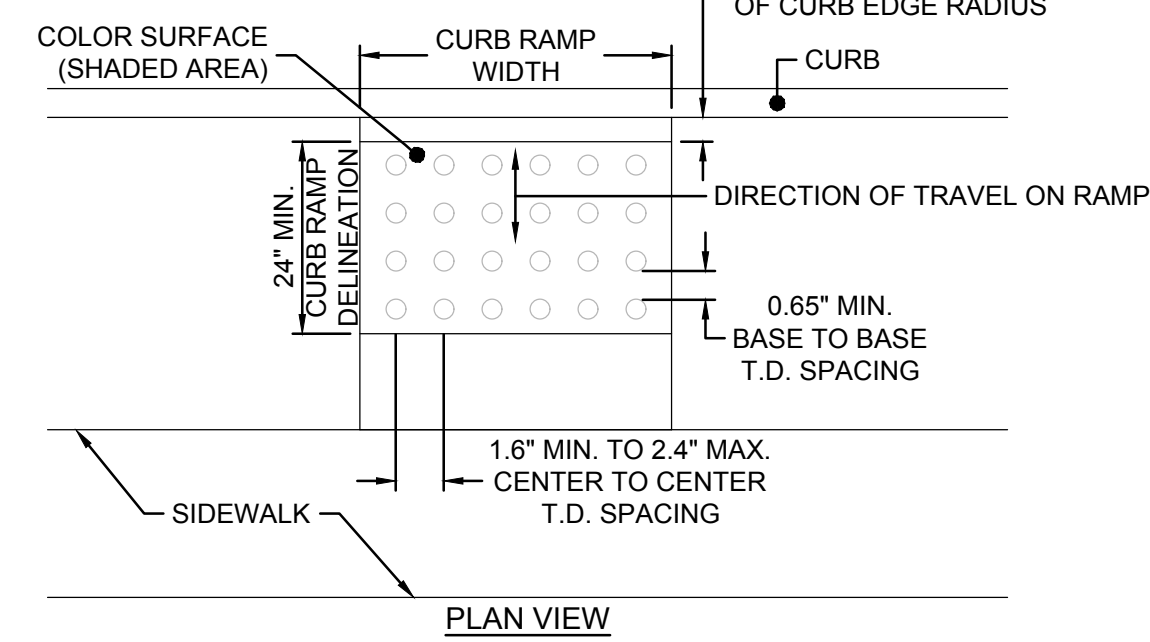
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2 BITUMINOUS PAVING DETAIL

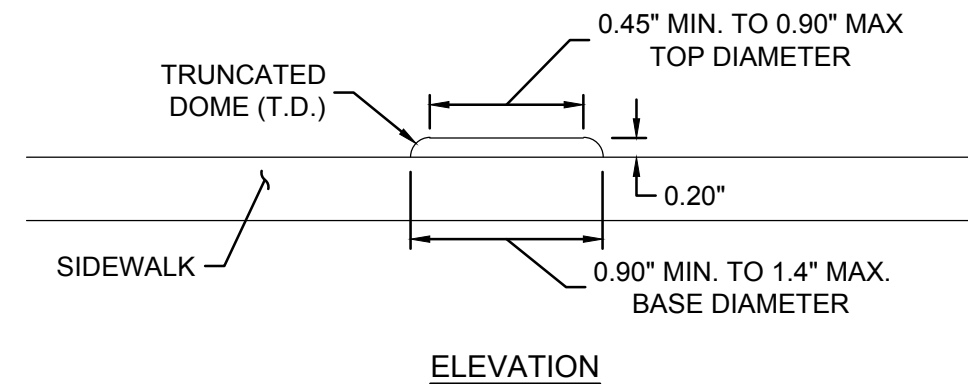


3 PAVEMENT REPAIR DETAIL

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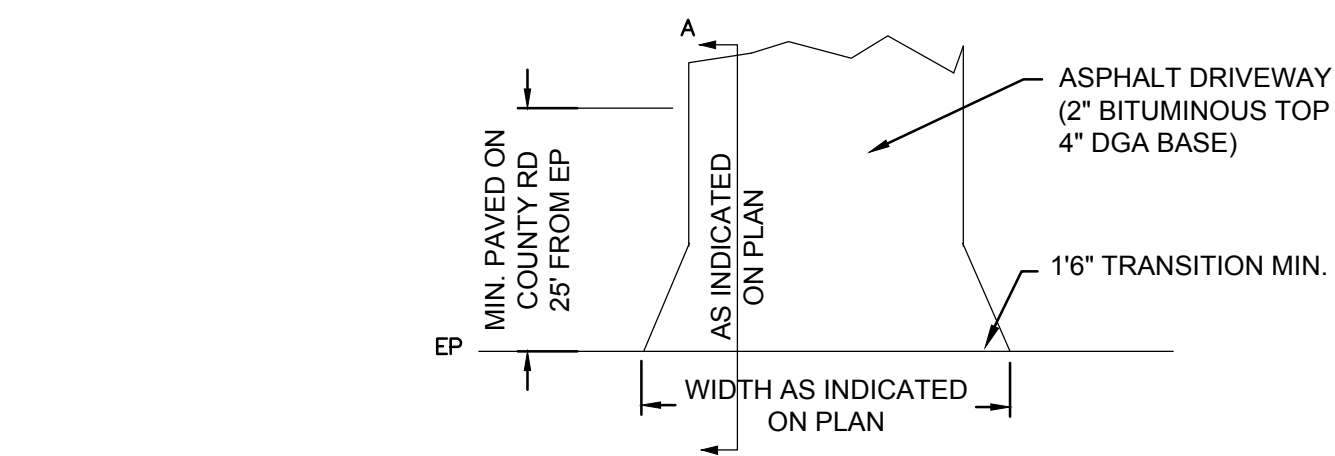
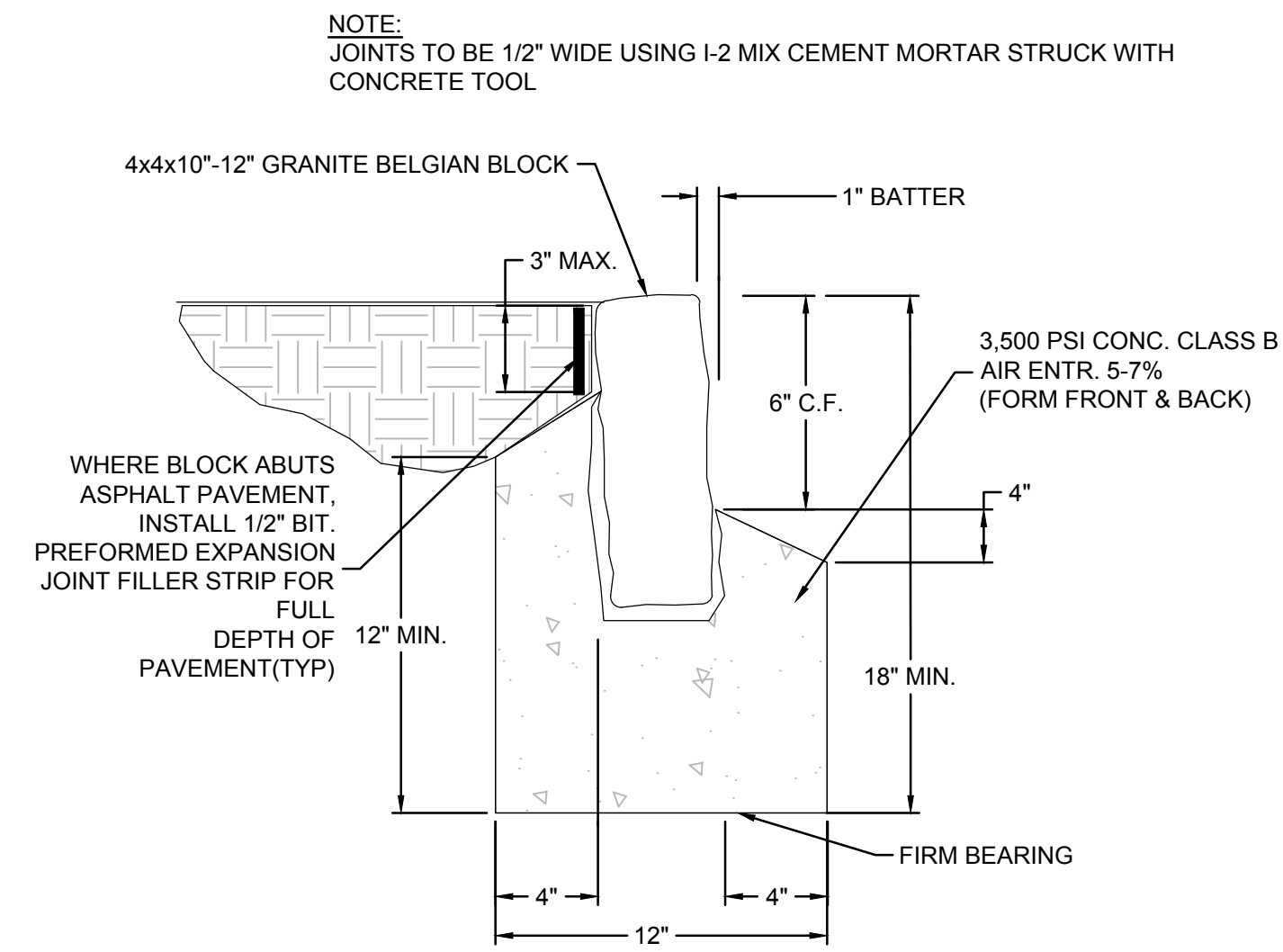


ELEVATION



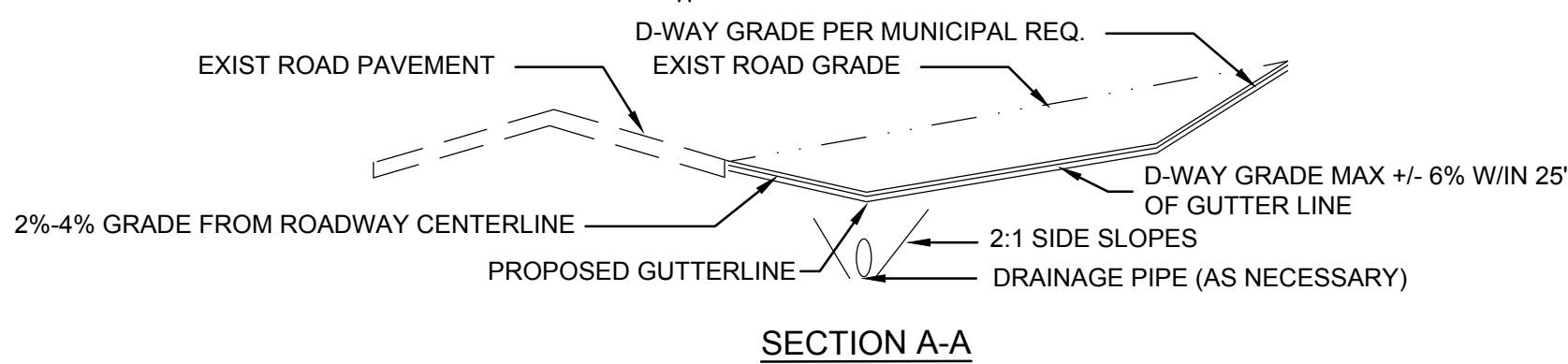
4 GRANITE CURB DETAIL

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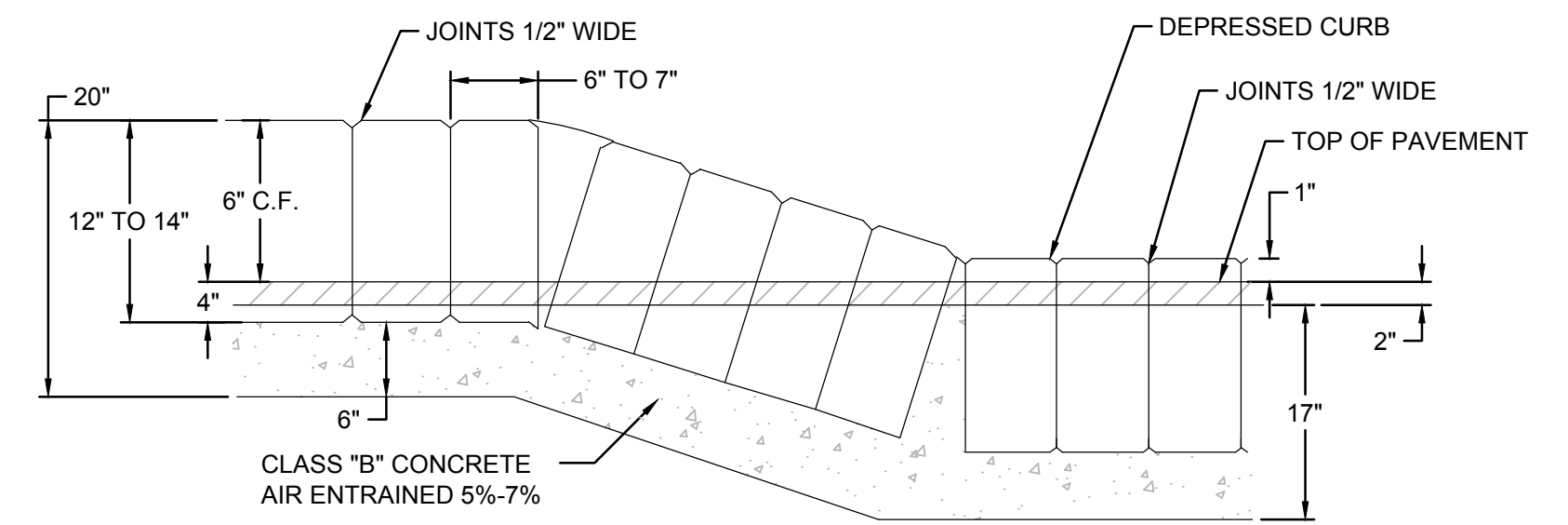
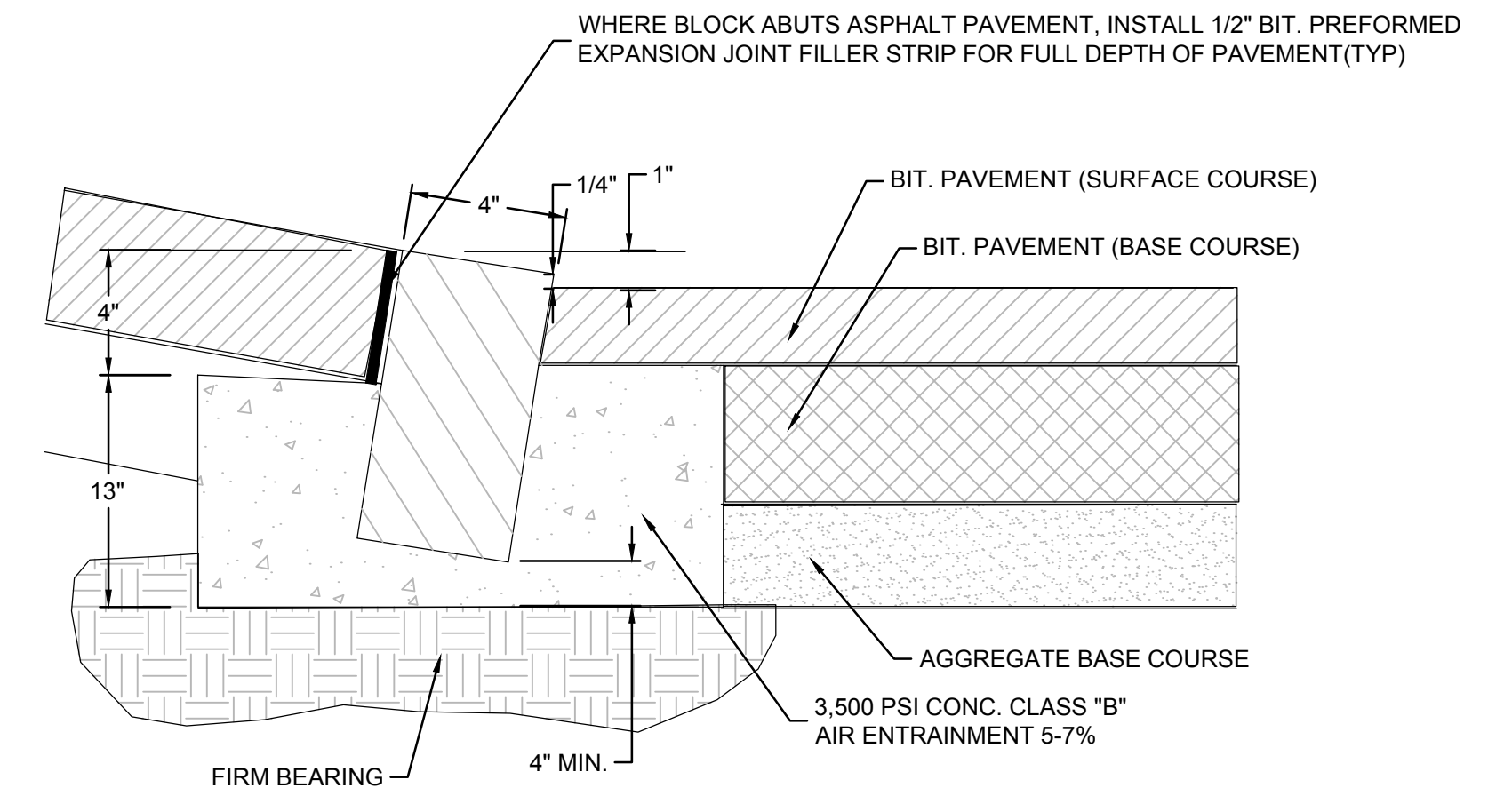


8 DRIVEWAY APRON DETAIL

NTS



SECTION A-A



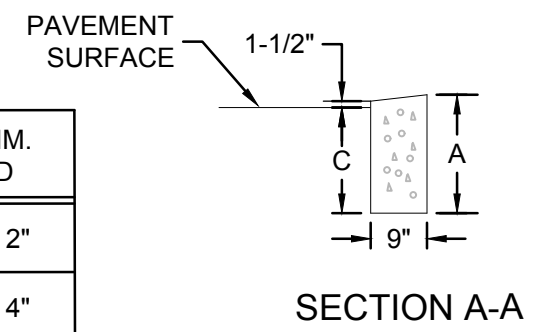
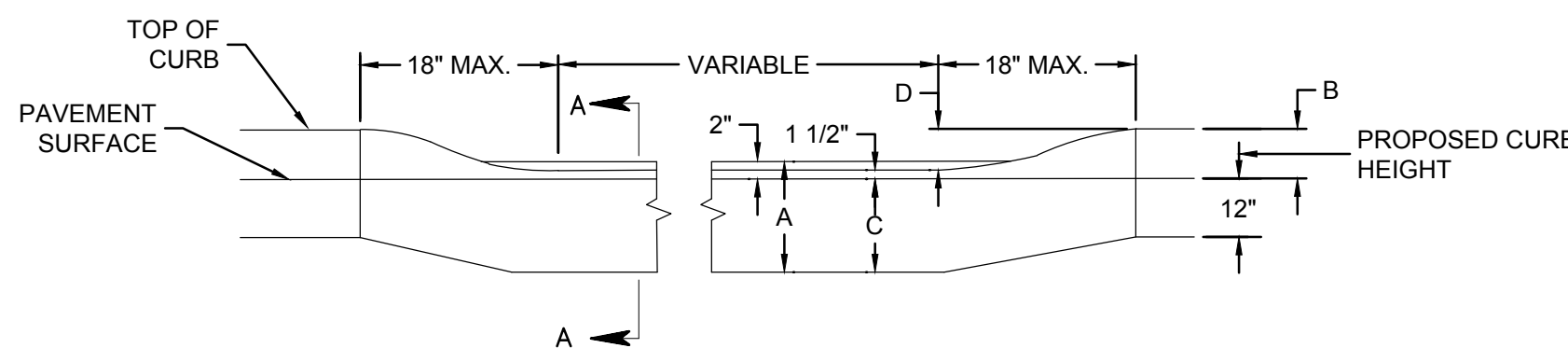
5 GRANITE DEPRESSED CURB DETAIL

NTS

NOTE:
BLOCK JOINTS: JOINT MORTAR SHALL CONSIST OF 1 PART PORTLAND CEMENT TO 2 PARTS SAND; JOINT WIDTH 1/2"; NEATLY POINT

6 METHOD OF DEPRESSING CURB AT DRIVEWAYS

NTS

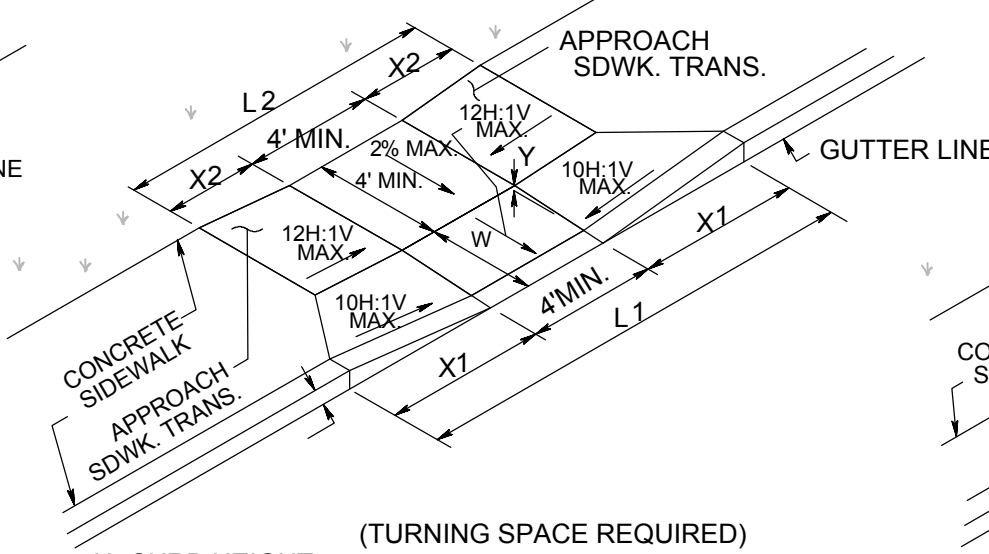


SECTION A-A

CURB SIZE	DIM. A	DIM. B	DIM. C	DIM. D
9"x16"	16"	4"	14"	2"
9"x18"	18"	6"	16"	4"

7 DETECTABLE WARNING SURFACE DETAIL

NTS

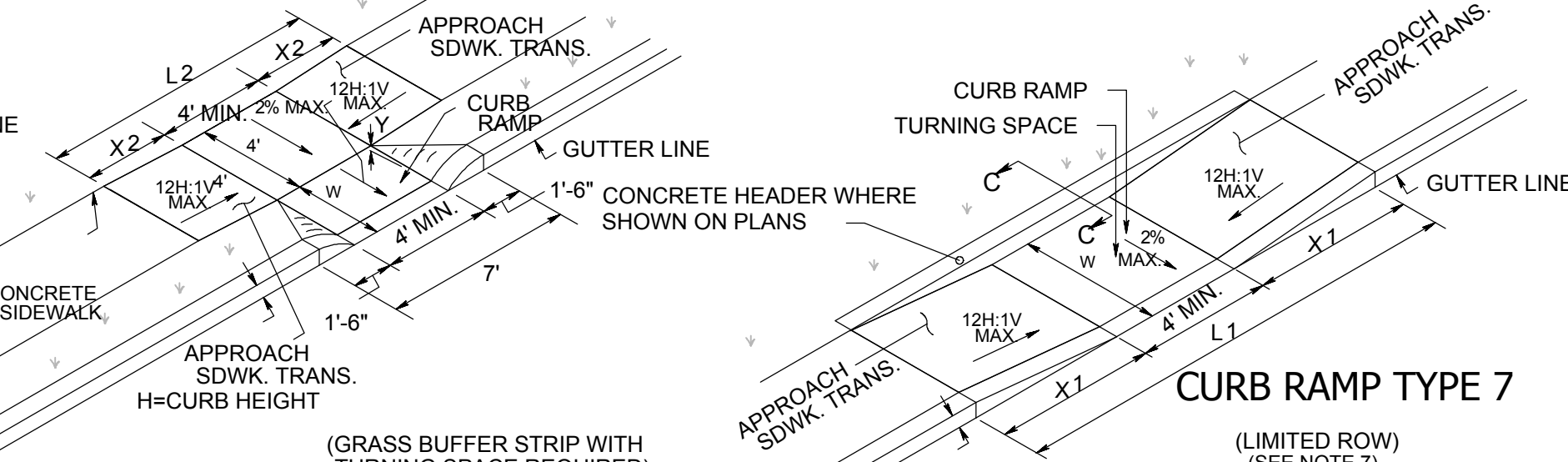


CURB RAMP TYPE 3

CURB RAMP TYPE 4

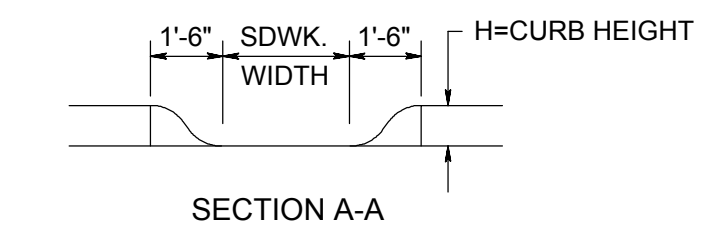
8 DRIVEWAY APRON DETAIL

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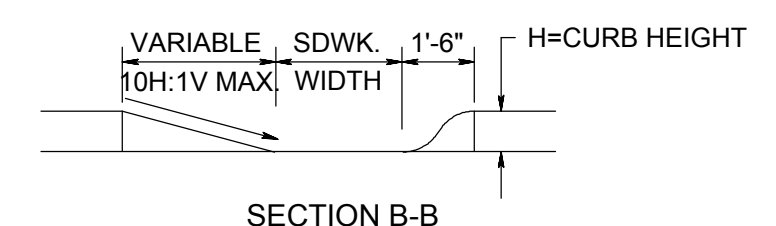
CURB RAMP TYPE 7

SECTION C-C

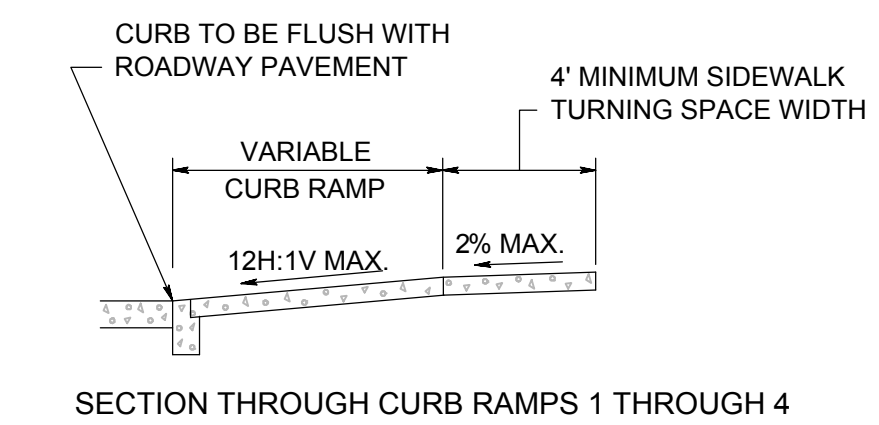


SECTION A-A

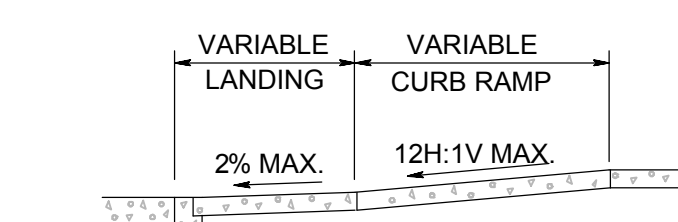
NOTE:
CURB RAMP OPENING TO BE FLUSH WITH ROADWAY PAVEMENT (CURB RAMP TYPES 5 & 6).



SECTION B-B

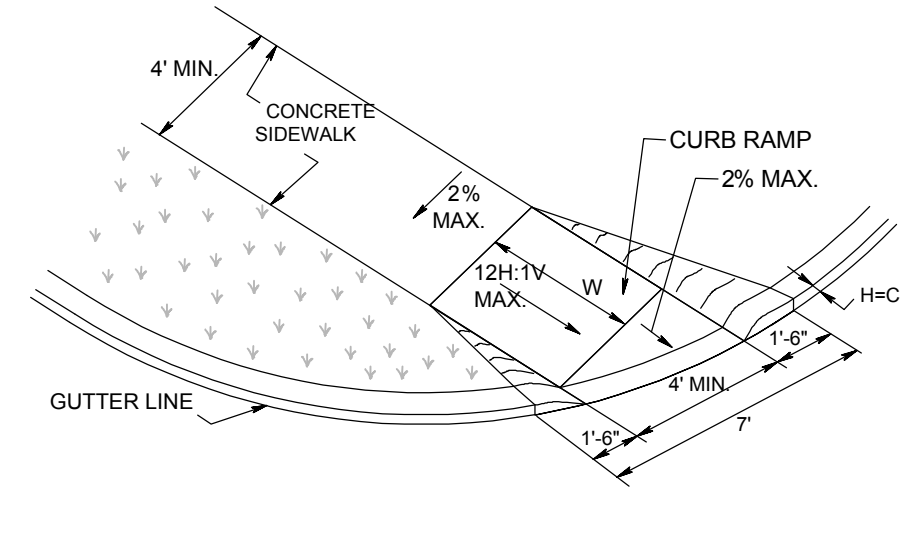


SECTION THROUGH CURB RAMP TYPES 1 THROUGH 4

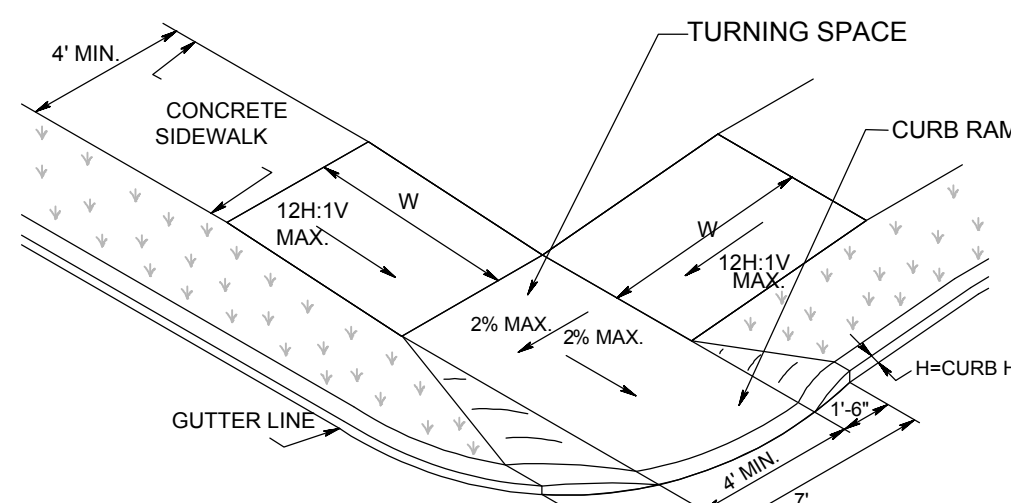
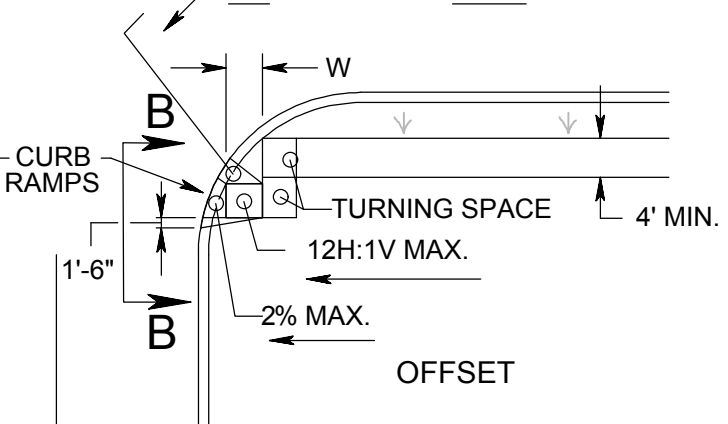
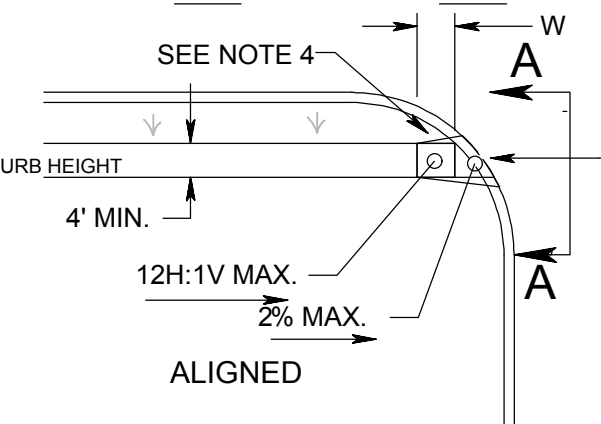


SECTION THROUGH CURB RAMP TYPES 5 AND 6

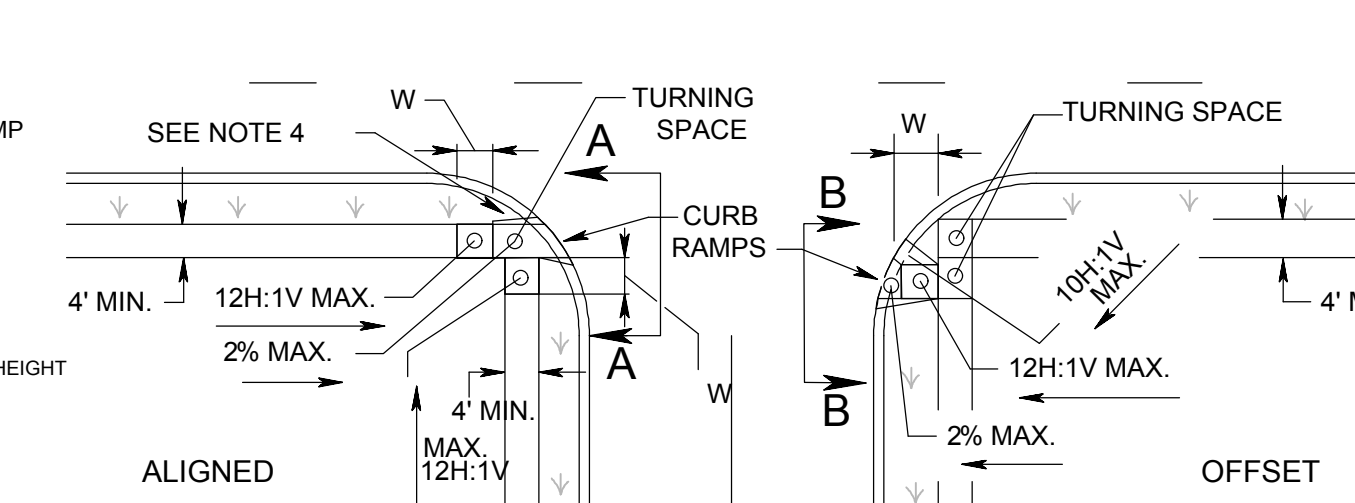
CURB RAMP TYPE 1



CURB RAMP TYPE 5



CURB RAMP TYPE 6



9 STANDARD ADA RAMPS - TYPE 1 THRU 6

NTS

- 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.
- FOR CURB RAMP TYPES 5 AND 6, IF A GRASS BUFFER DOES NOT EXIST, SLOPE CURB TO EQUAL SLOPE OF ADJACENT CURB RAMP.
- SIDEWALK AND CURB RAMP WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR CONCRETE SIDEWALK OF THE APPROPRIATE ADJACENT THICKNESS.
- CURB AND HEADER WITHIN AREA ENCLOSED BY HEAVY LINES INDICATES THE PAY LIMIT FOR VERTICAL CURB OR SLOPING CURB OF THE APPROPRIATE ADJACENT SIZE AND KIND.
- WHERE THE DISTANCE FROM THE GUTTER LINE TO THE OUTSIDE EDGE OF SIDEWALK IS 6 FEET OR LESS, USE CURB RAMP TYPE 7, INSTEAD OF CURB RAMP TYPE 1 THROUGH 4.
- CROSSWALKS AND STOP LINES MAY BE MARKED OR UNMARKED. SEE PLANS.
- CROSSINGS SHOWN IN TABLES ARE FOR 3 INCH TO 9 INCH CURB HEIGHTS. WHERE THE CURB HEIGHTS ARE OTHER THAN WHAT IS PROVIDED IN THE TABLES, THE DIMENSIONS OF THE RAMPS WILL HAVE TO BE CALCULATED BASED ON CROSS SLOPES SHOWN.
- THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X 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:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.
- THE 12H:1V MAX SLOPE IS THE RUNNING SLOPE FOR CURB RAMPS, BUT ONLY THE 12H:1V SLOPE MEASURED AS X 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:1V MAX SLOPE SO AS NOT TO EXCEED THE 15 FEET MAXIMUM LENGTH.

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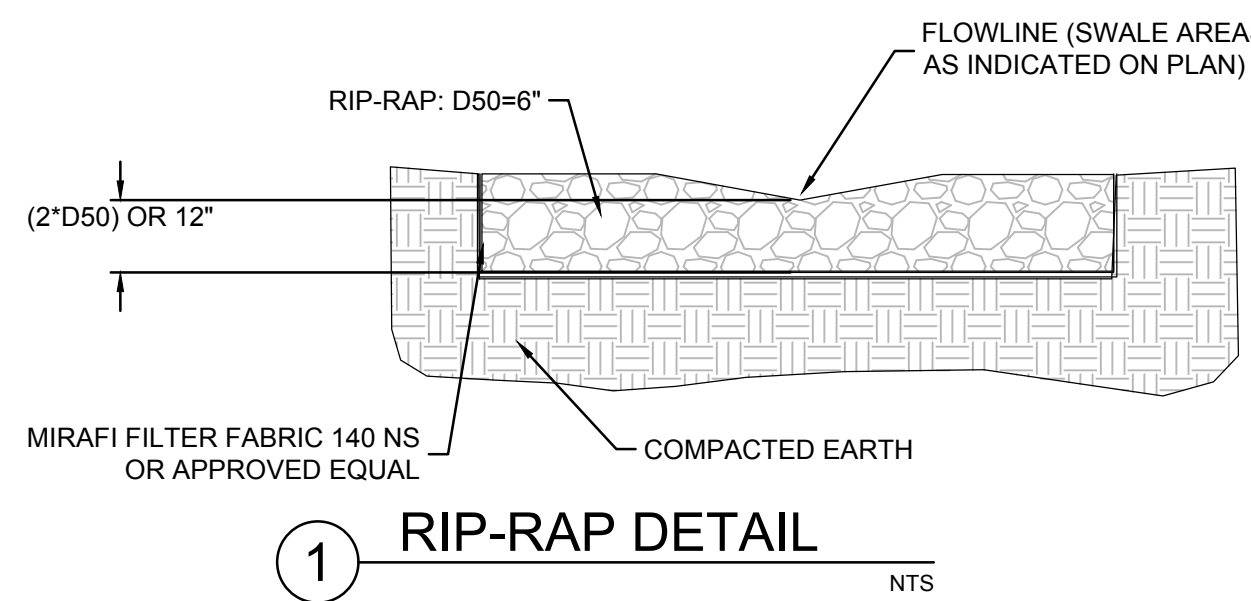
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 N.J. P.E. NO. 24GE049025

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 LONG HILL TOWNSHIP

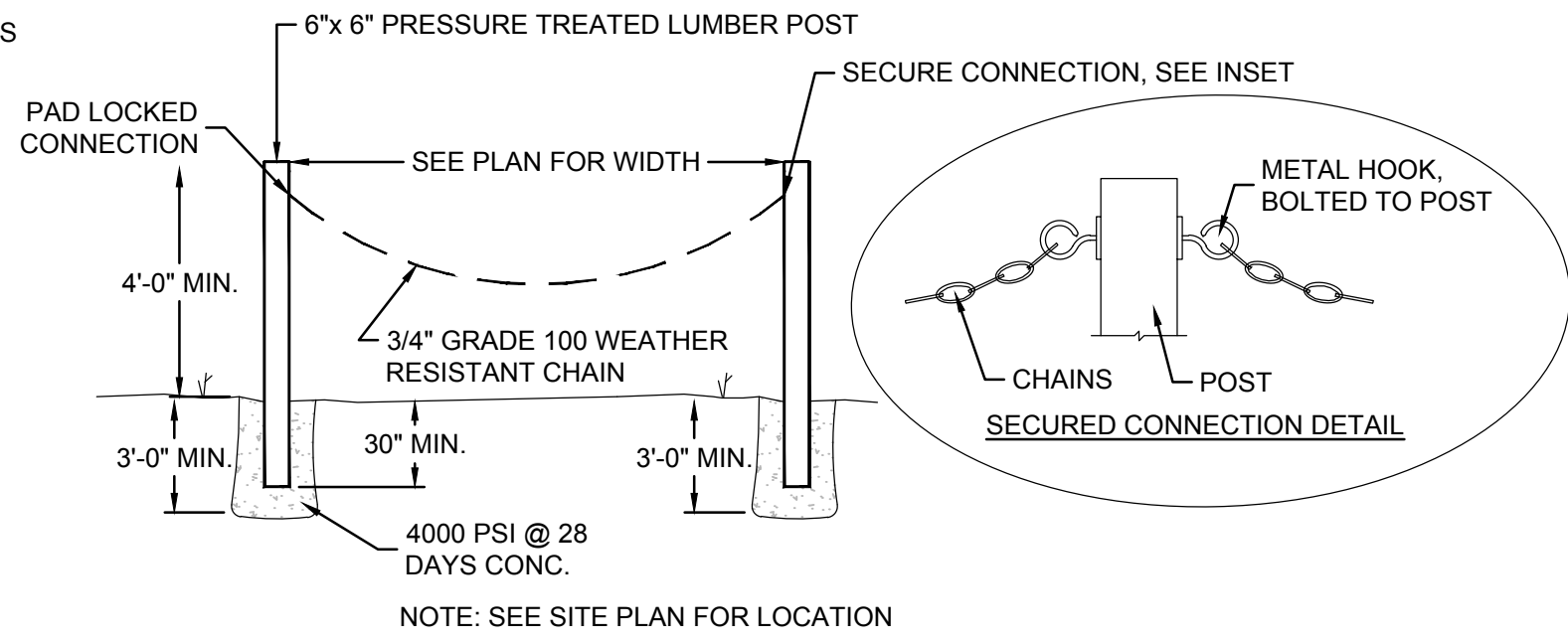
MORRIS COUNTY NEW JERSEY

TITLE: CONSTRUCTION DETAILS

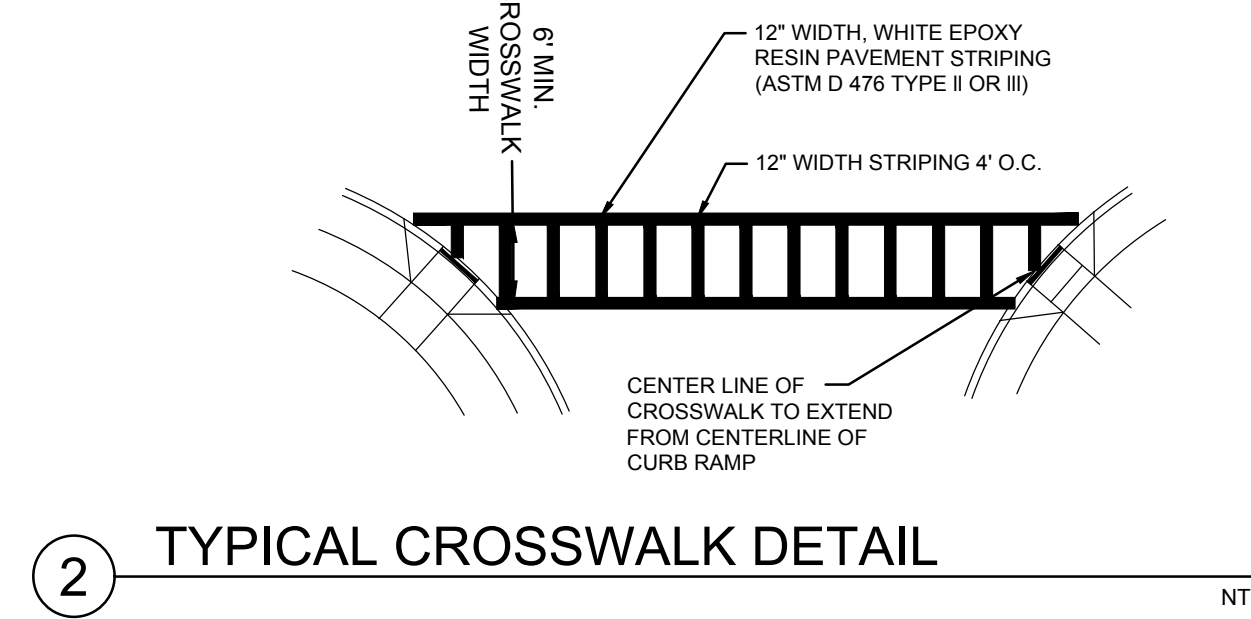
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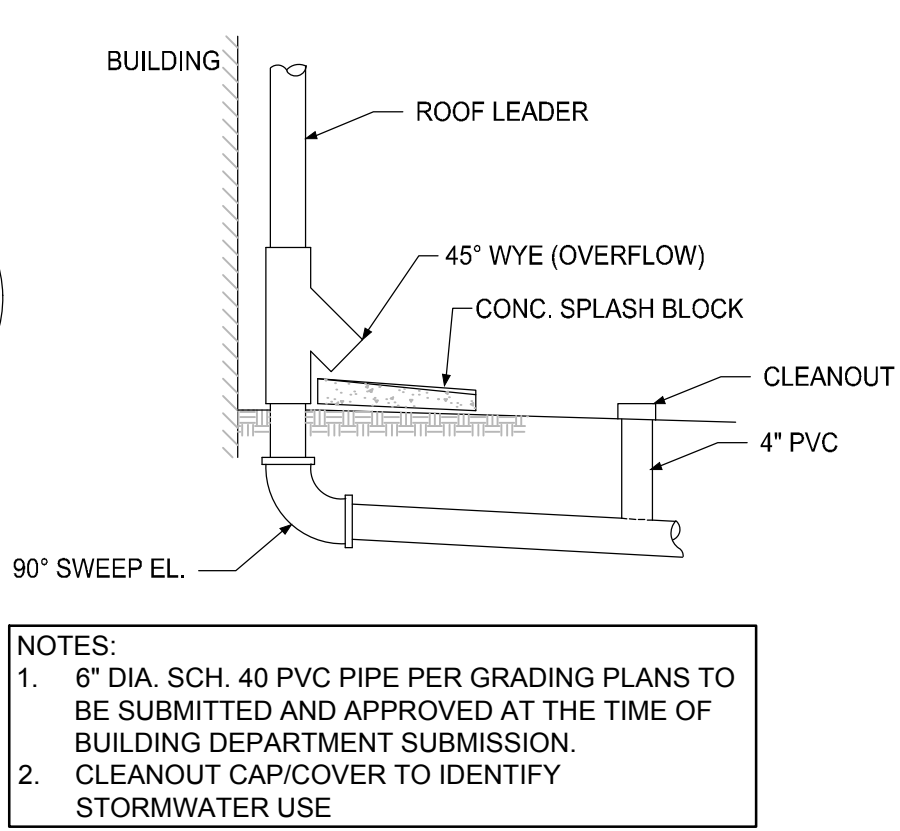
1 RIP-RAP DETAIL NTS



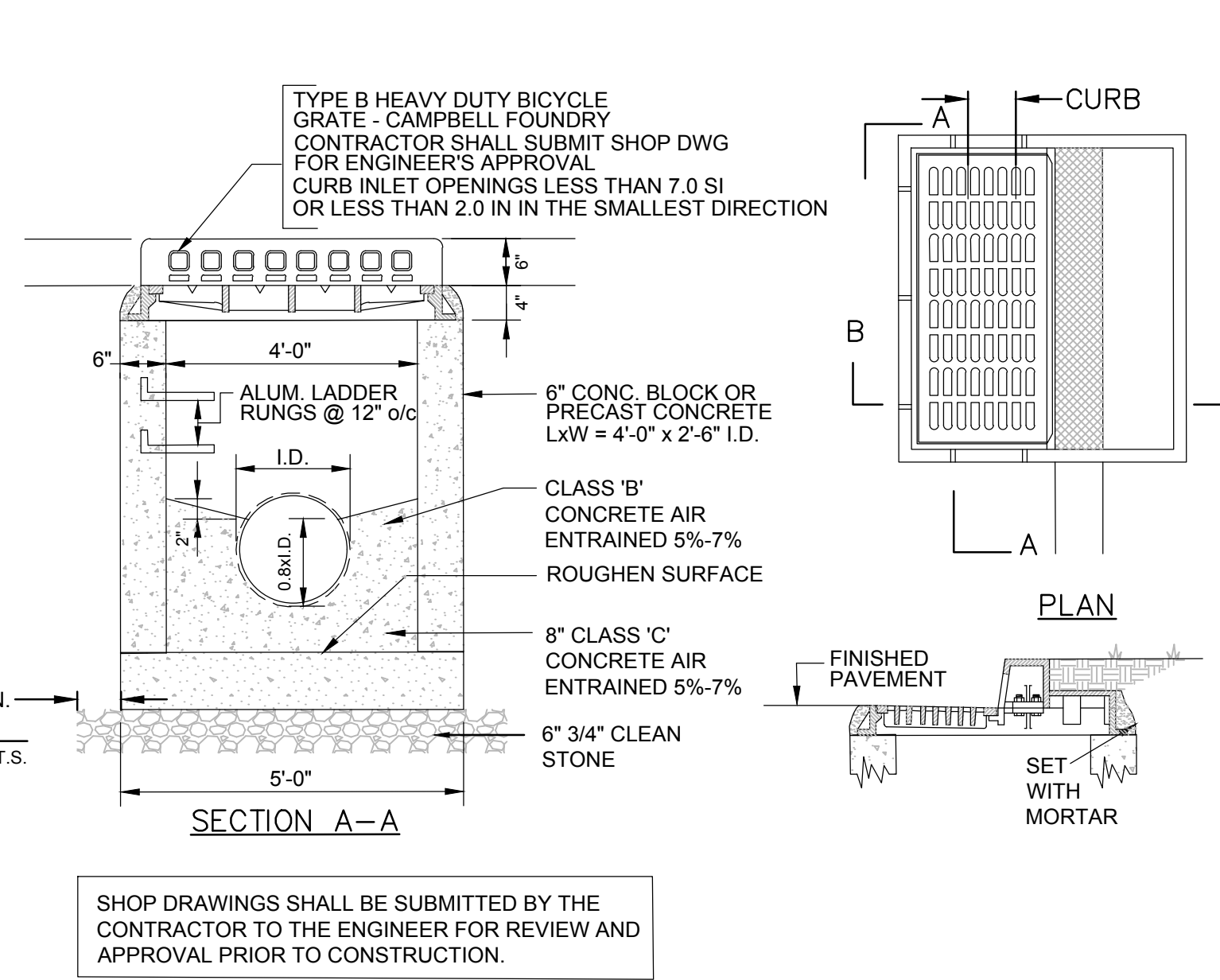
5 POST AND CHAIN BARRIER DETAIL NTS



2 TYPICAL CROSSWALK DETAIL NTS



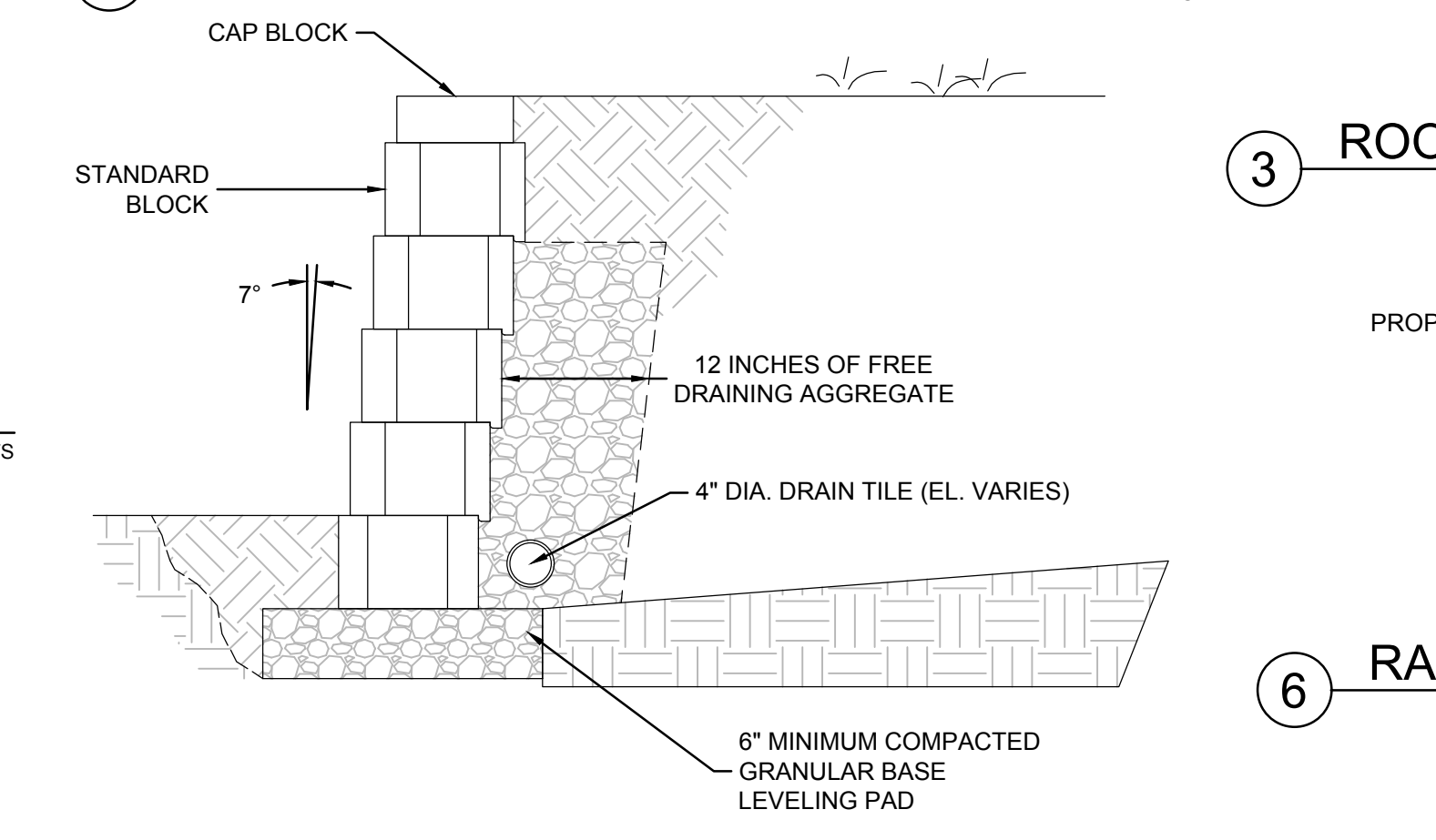
3 ROOF DRAIN DETAIL NTS



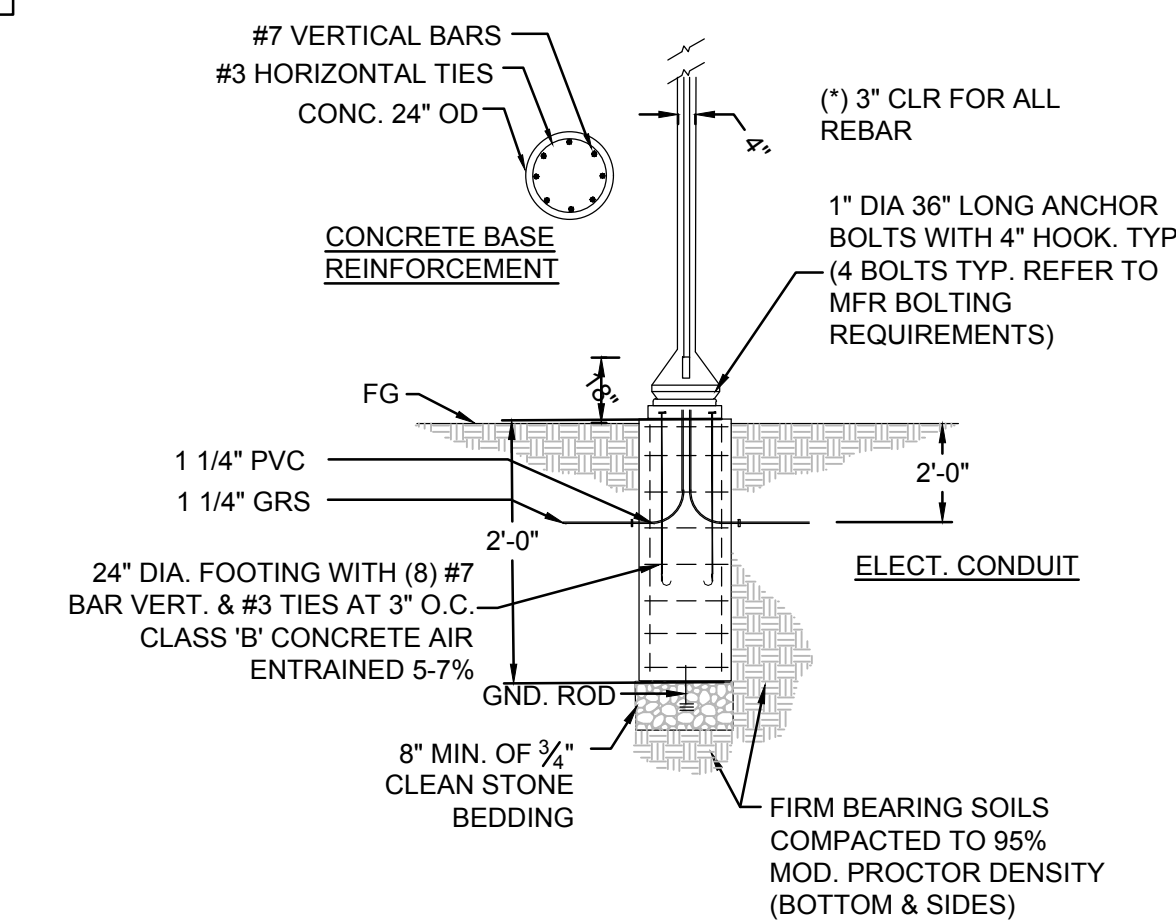
4 STANDARD B-INLET DETAIL NTS

NOTES:

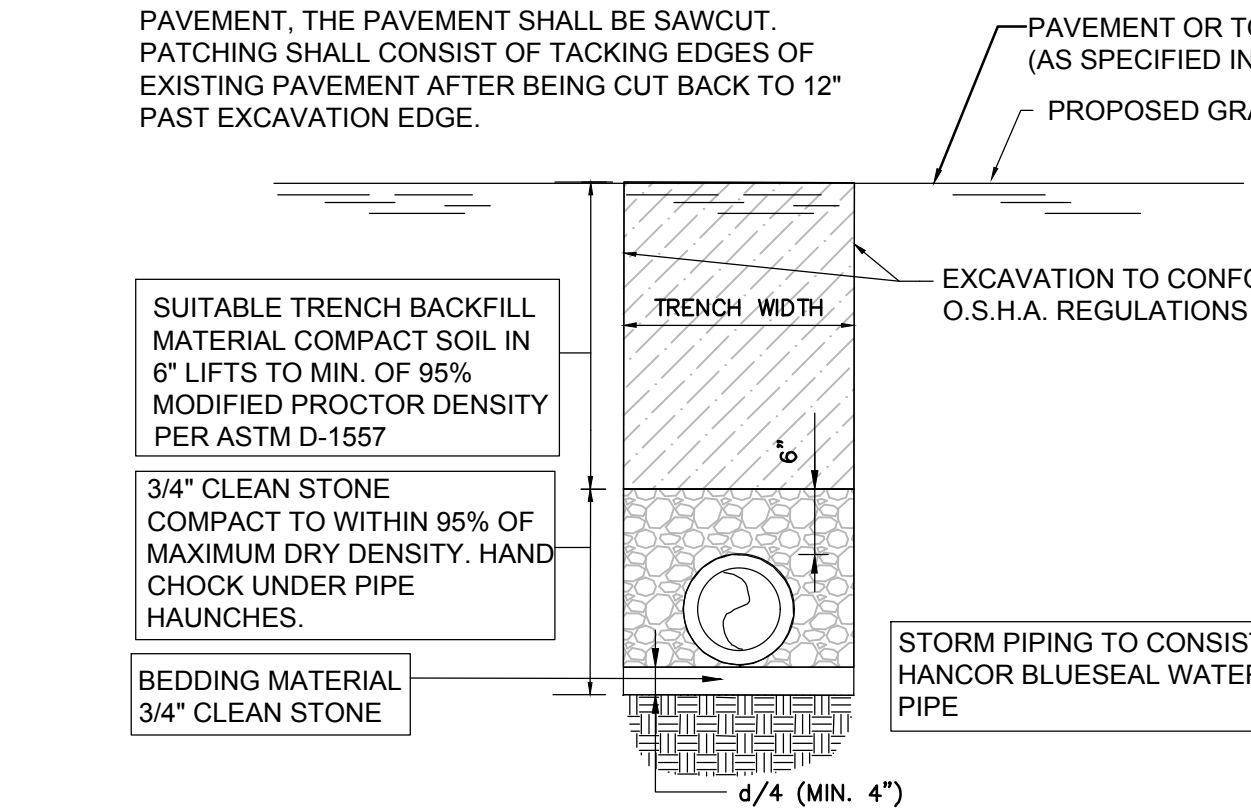
- TRENCH WIDTH SHALL BE A MINIMUM OF 1' EACH SIDE PLUS THE OUTSIDE DIAMETER OF THE PIPE. TRENCH WIDTH SHALL NOT EXCEED THAT REQUIRED FOR PROPER INSTALLATION BACKFILL AND COMPACTION OPERATIONS.
- SUITABLE BACKFILL MATERIAL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO INSTALLATION.
- WHERE TRENCH PASSES THROUGH EXISTING PAVEMENT, THE PAVEMENT SHALL BE SAWCUT. PATCHING SHALL CONSIST OF TACKING EDGES OF EXISTING PAVEMENT AFTER BEING CUT BACK TO 12" PAST EXCAVATION EDGE.



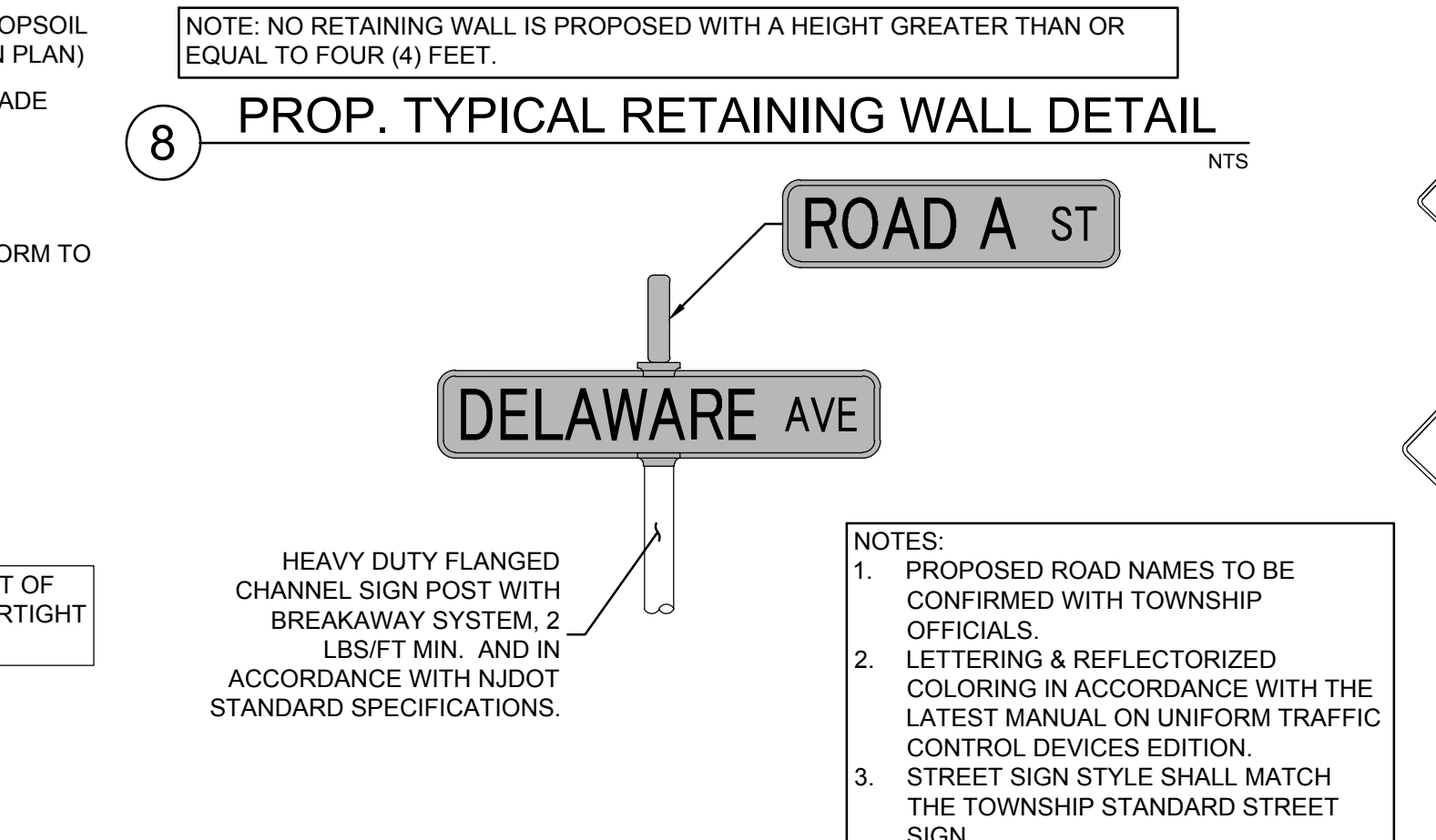
6 RAMP DROPPED CURB AND CRADLE NTS



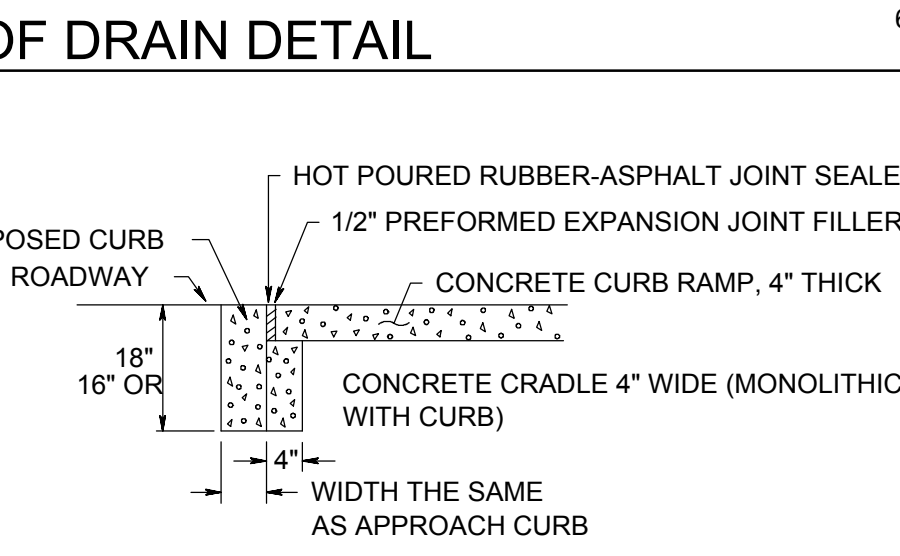
15 LIGHT POLE BASE DETAIL NTS



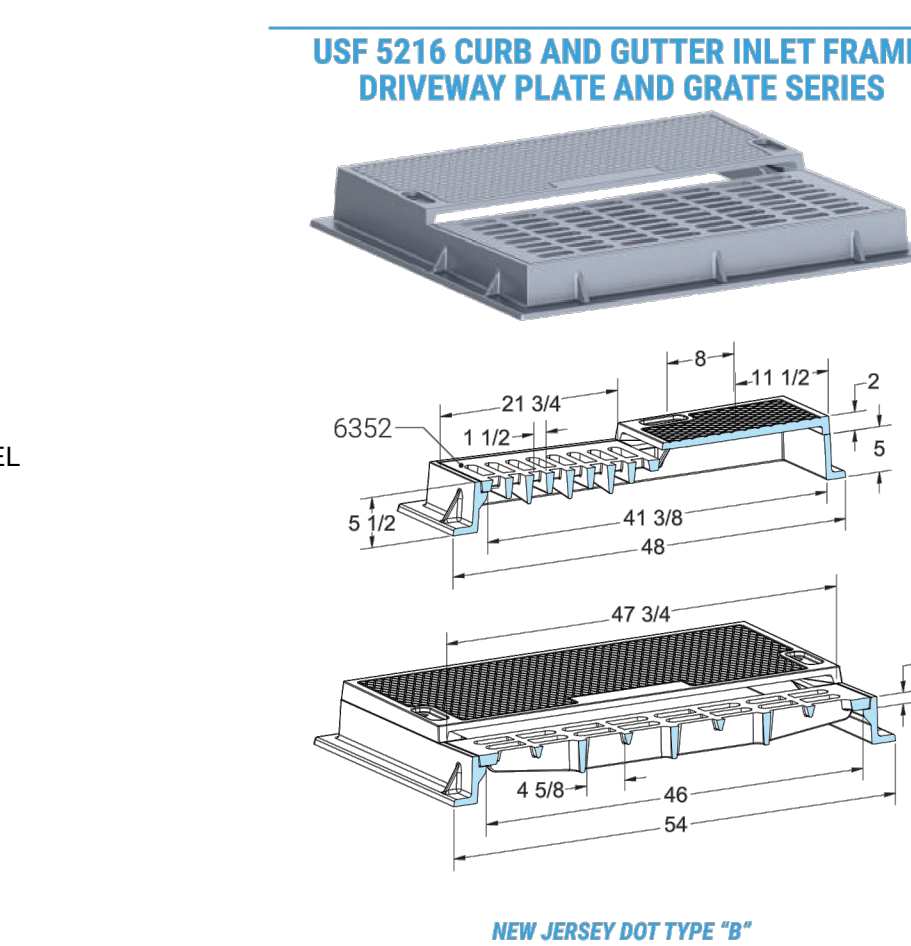
7 TYPICAL TRENCH DETAIL FOR HDPE STORM PIPE NTS



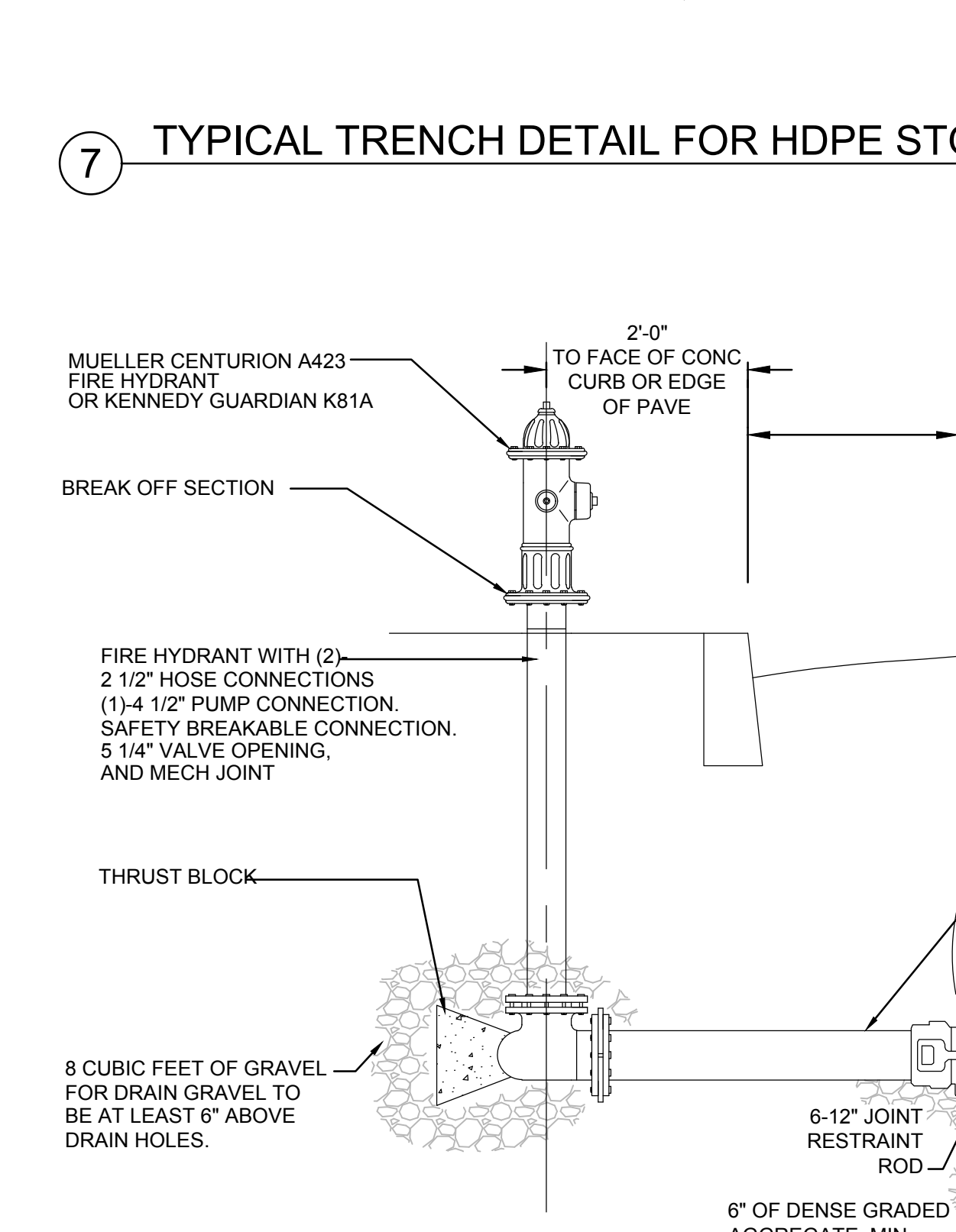
8 PROP. TYPICAL RETAINING WALL DETAIL NTS



6 RAMP DROPPED CURB AND CRADLE NTS



10 DRIVEWAY PLATE CURB PIECE DETAIL NTS



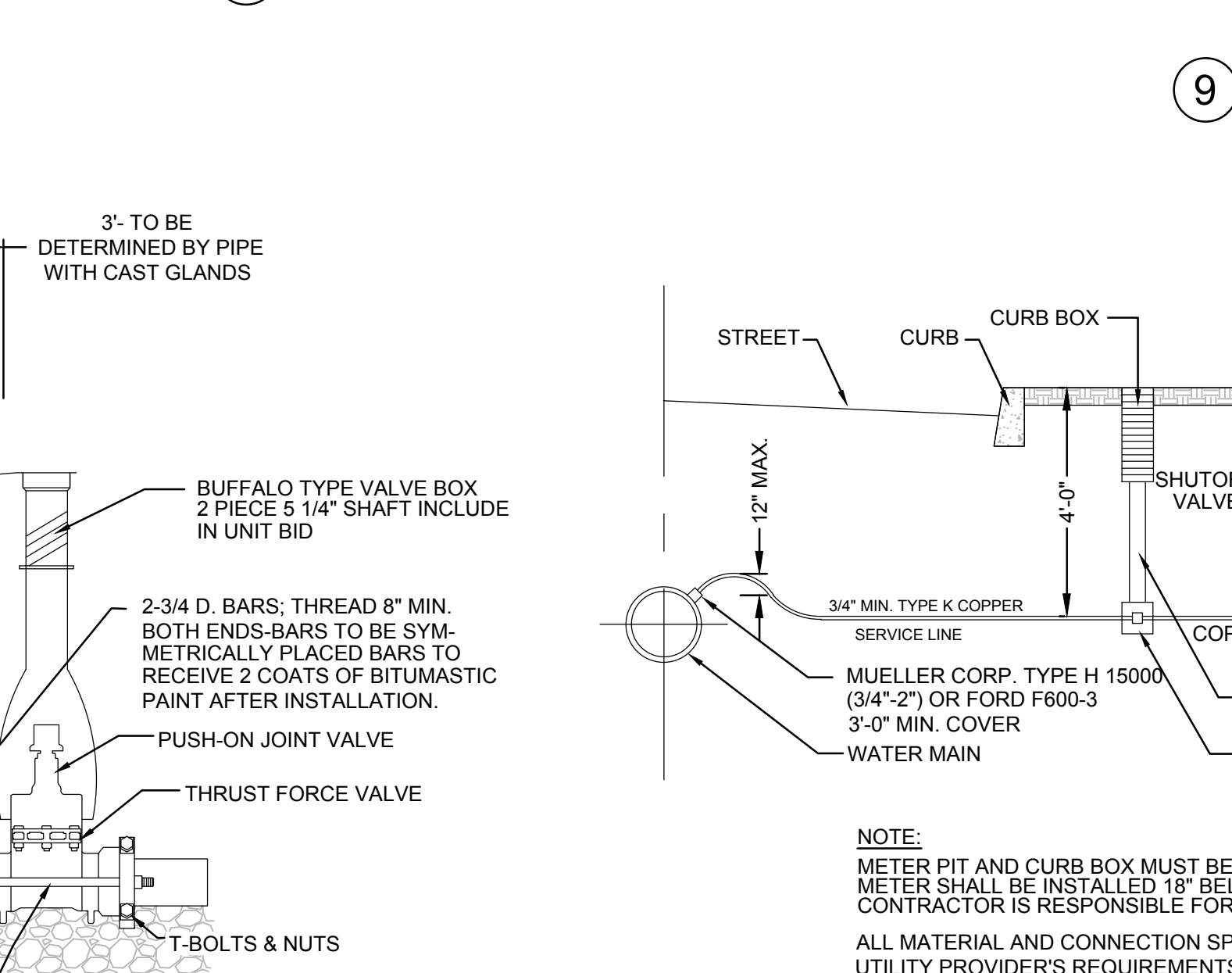
11 FIRE HYDRANT DETAIL NTS



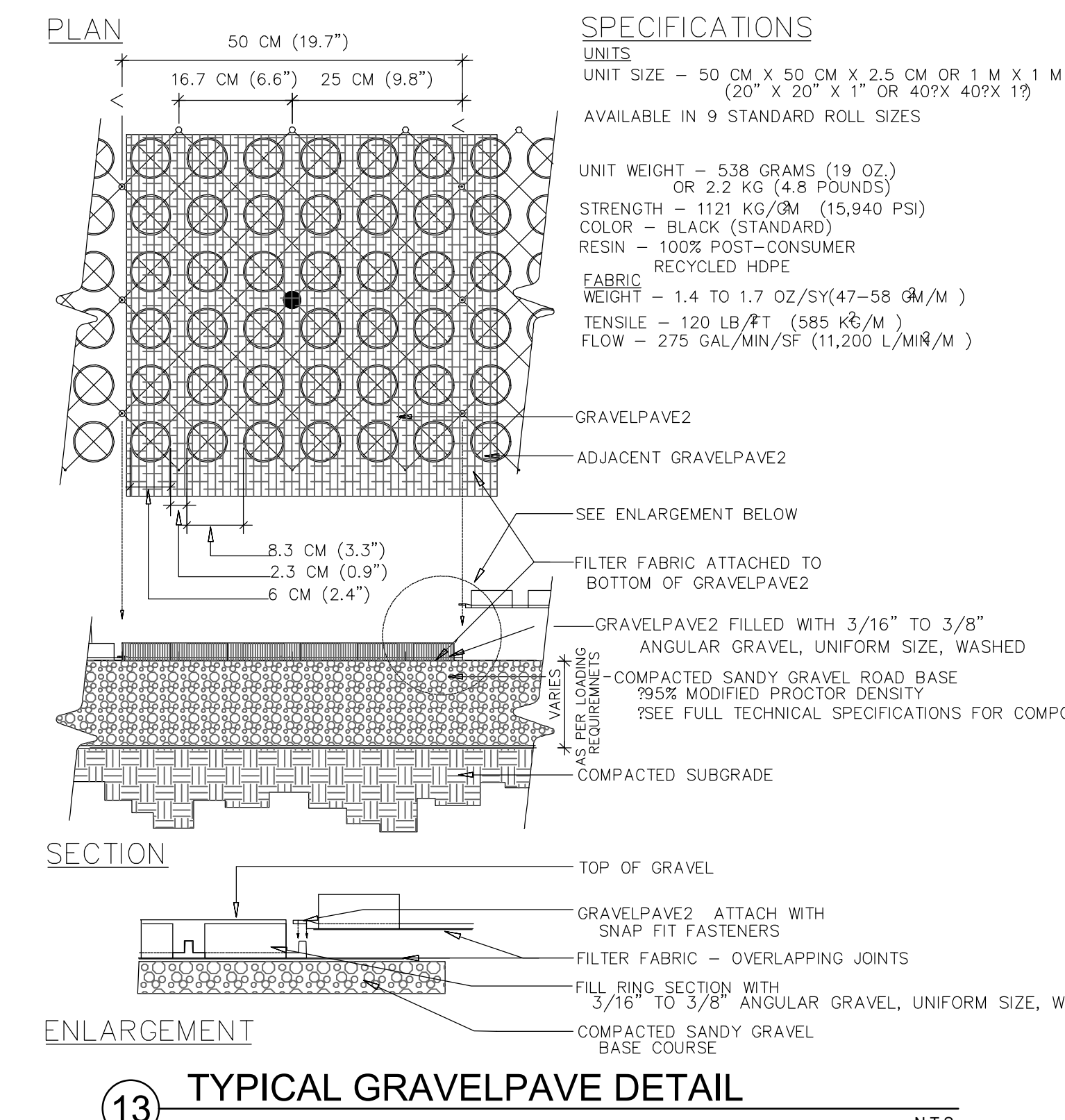
14 STREET NAME SIGN DETAILS NTS



9 SIGN POST DETAIL NTS



12 TYPICAL WATER SERVICE DETAIL NTS



13 TYPICAL GRAVELPAVE DETAIL NTS

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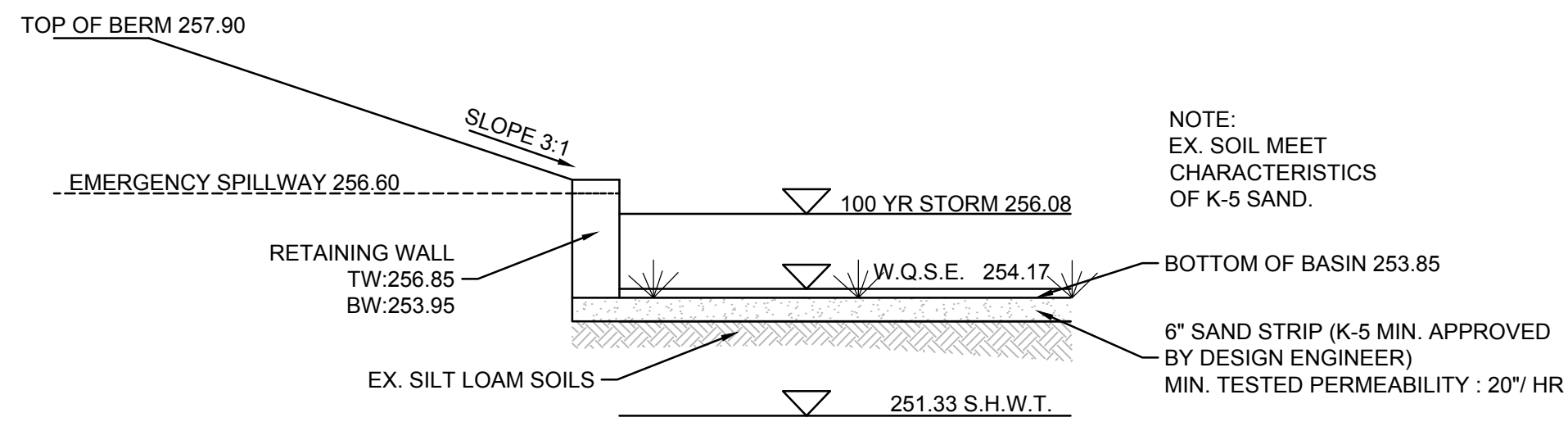
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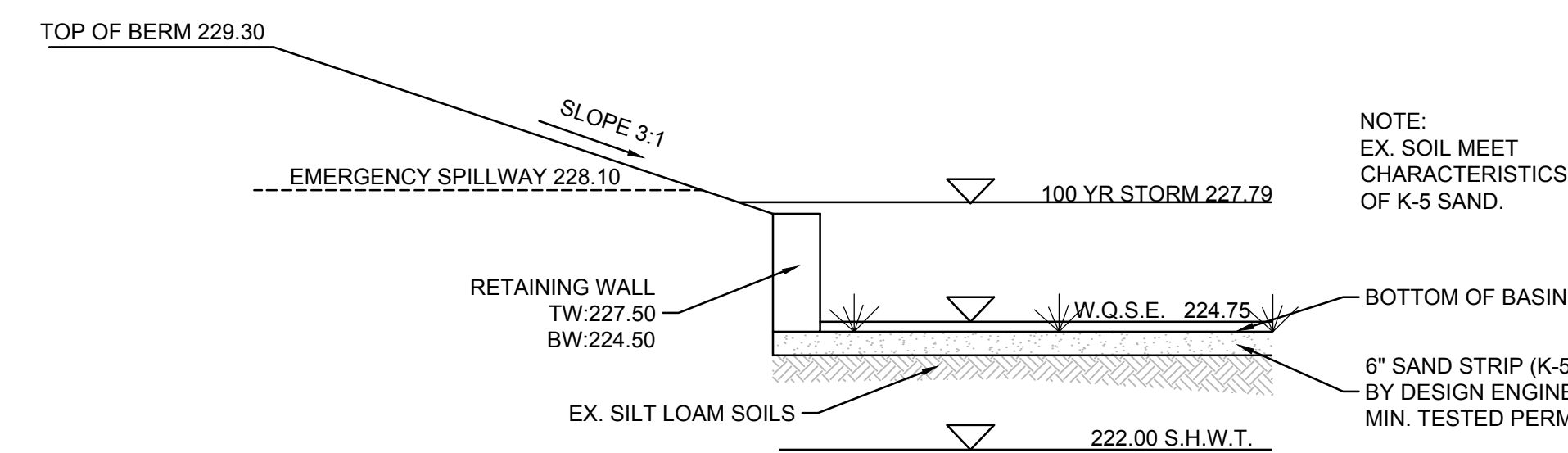
MORRIS COUNTY NEW JERSEY

**CONSTRUCTION
 DETAILS**

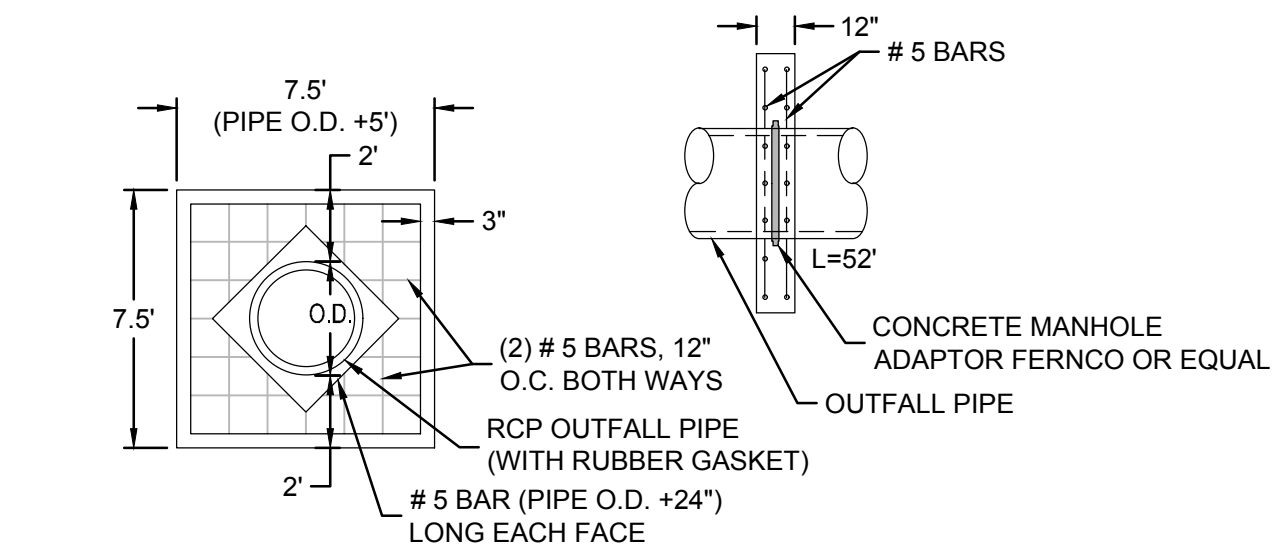
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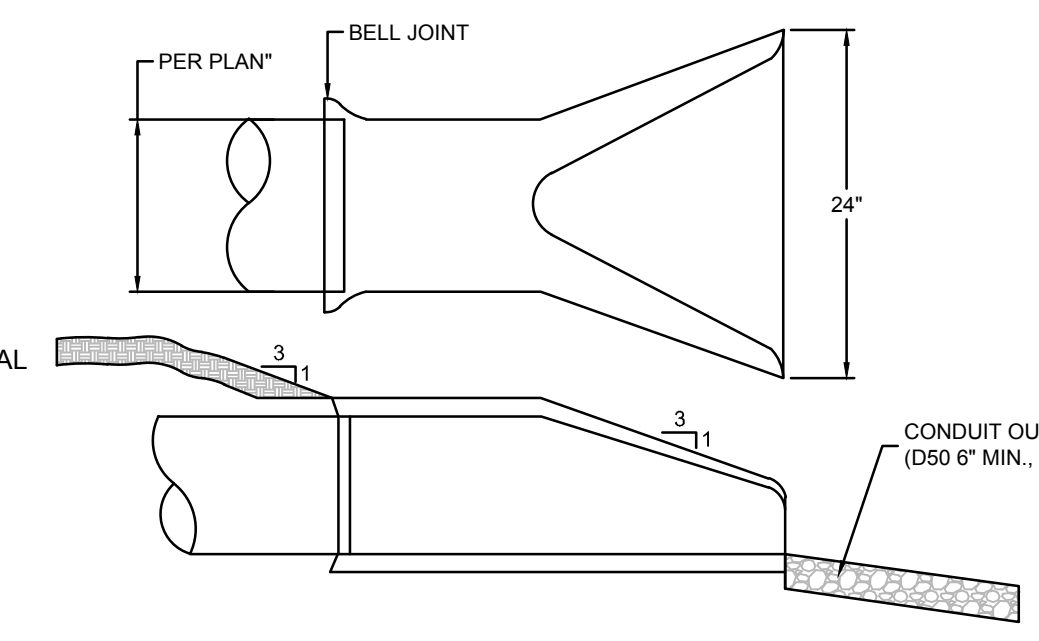
1 INFILTRATION BASIN (SWM-1) DETAIL



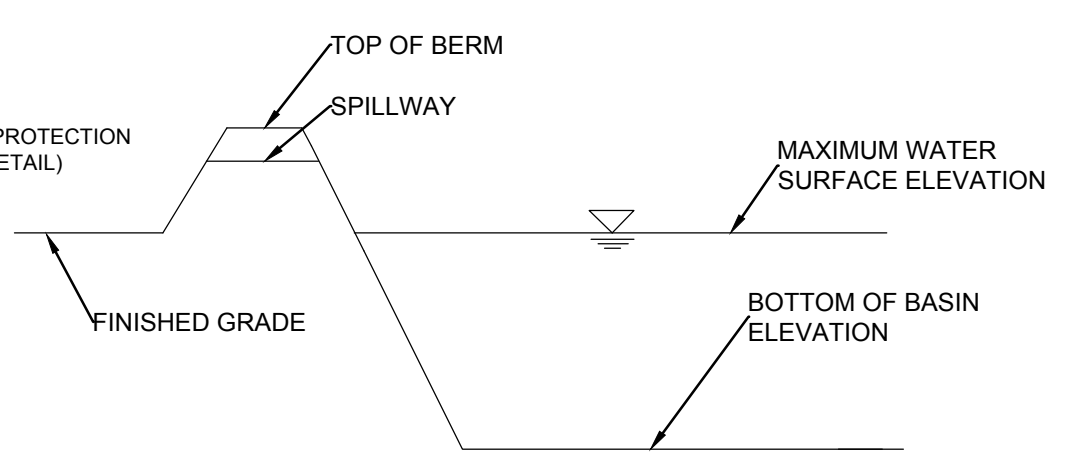
2 INFILTRATION BASIN (SWM-2) DETAIL



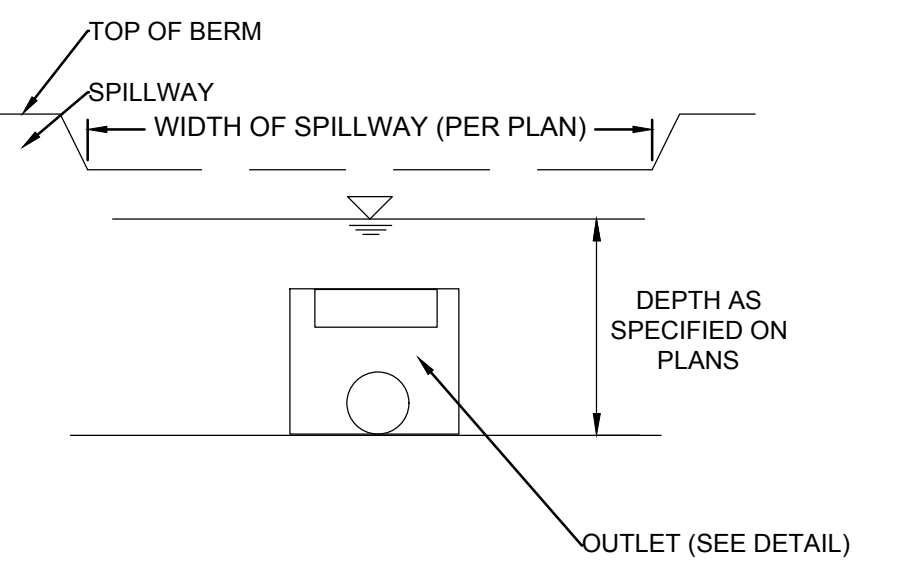
11 ANTI-SEEP COLLAR



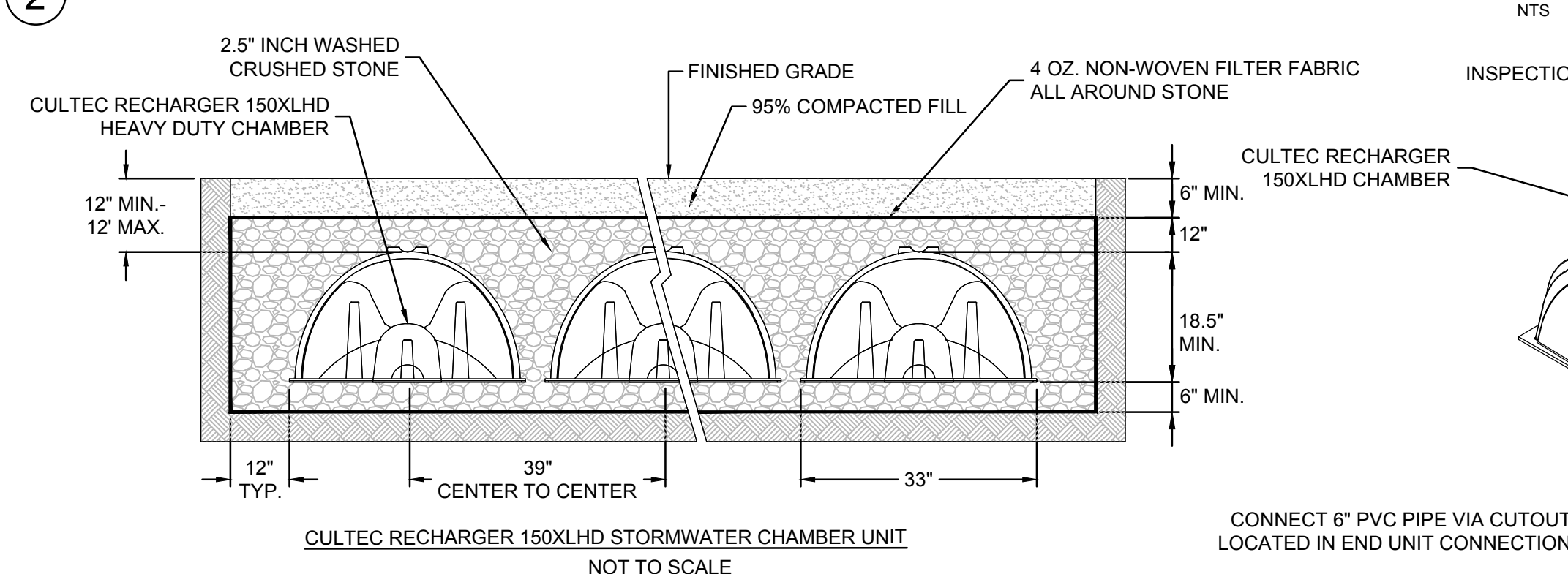
7 HDPE FLARED END SECTION



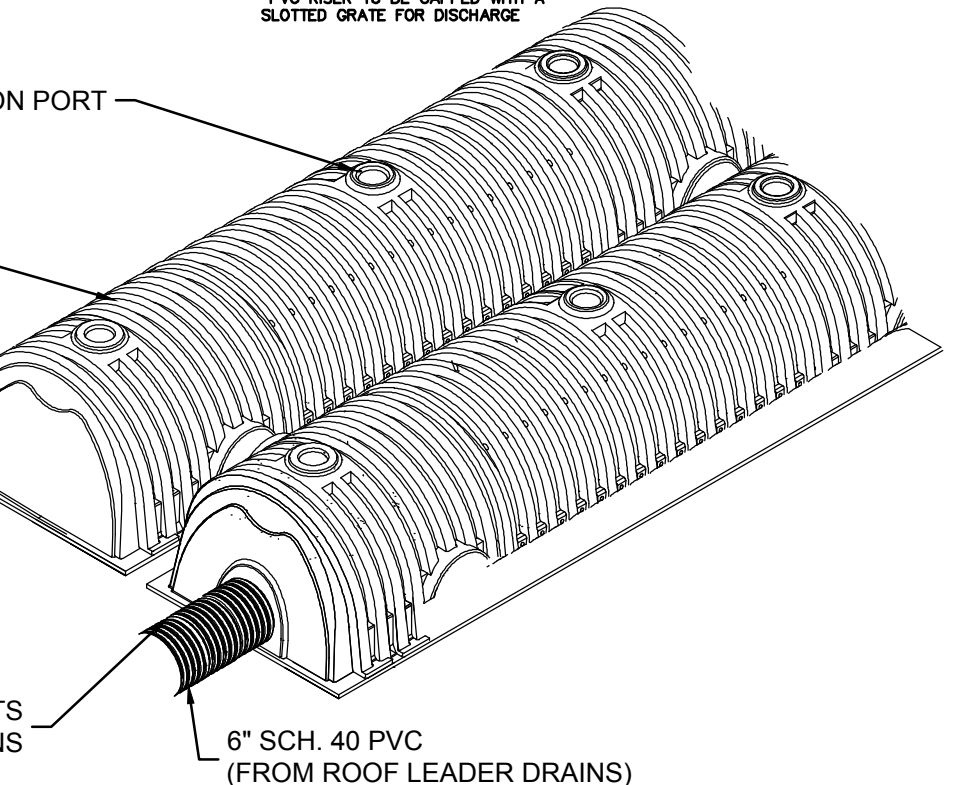
3 EMERGENCY SPILLWAY DETAIL



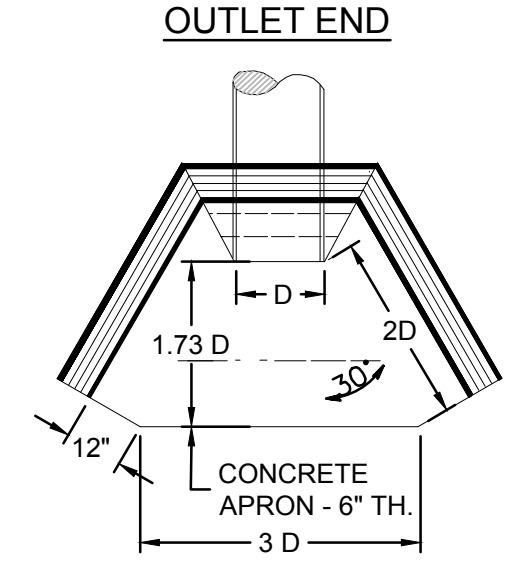
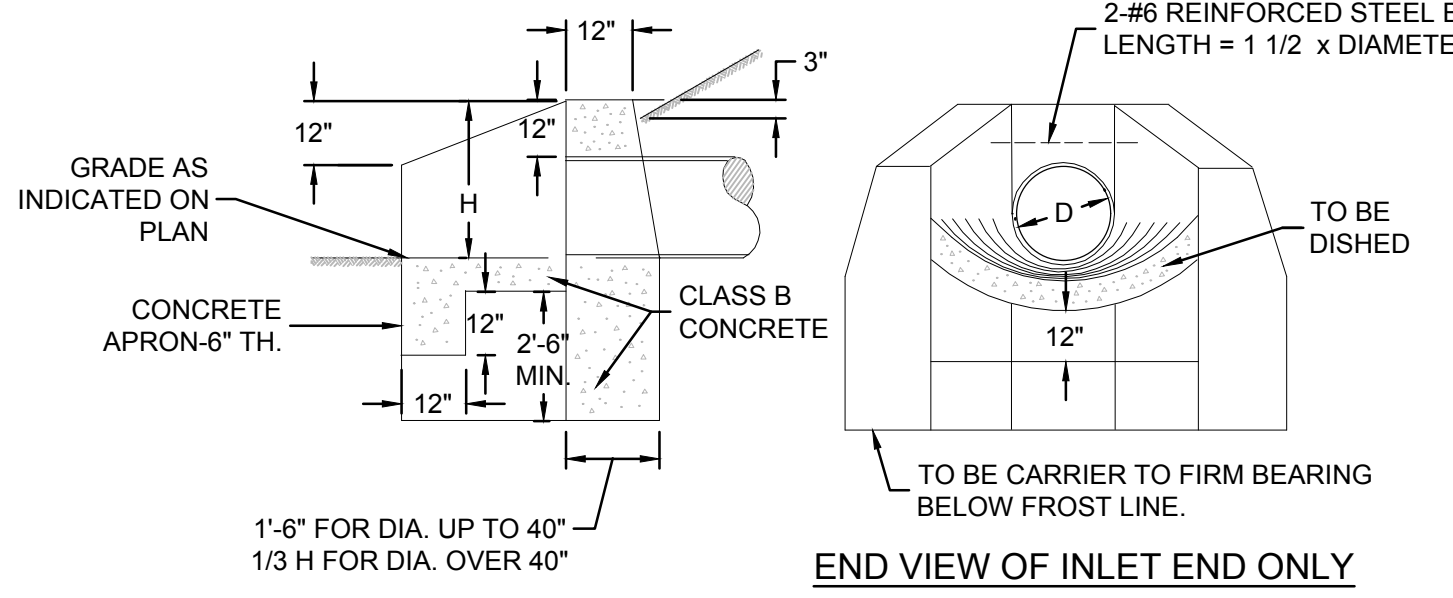
6 PREFORMED SCOUR HOLE DETAIL



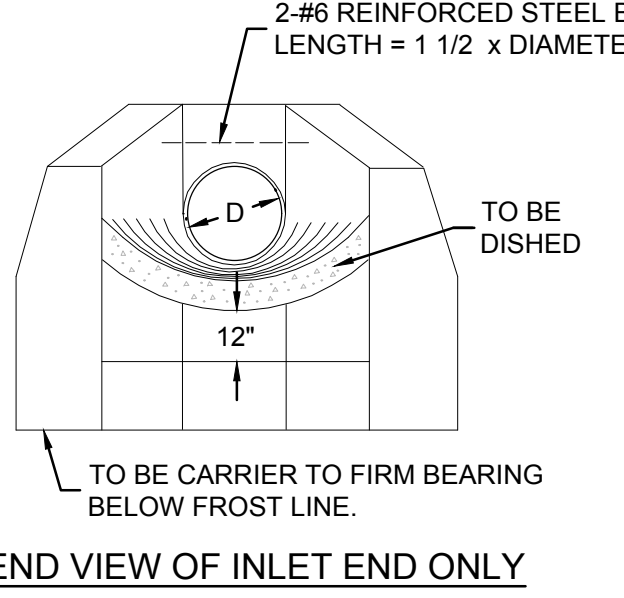
4 STORMWATER CHAMBERS



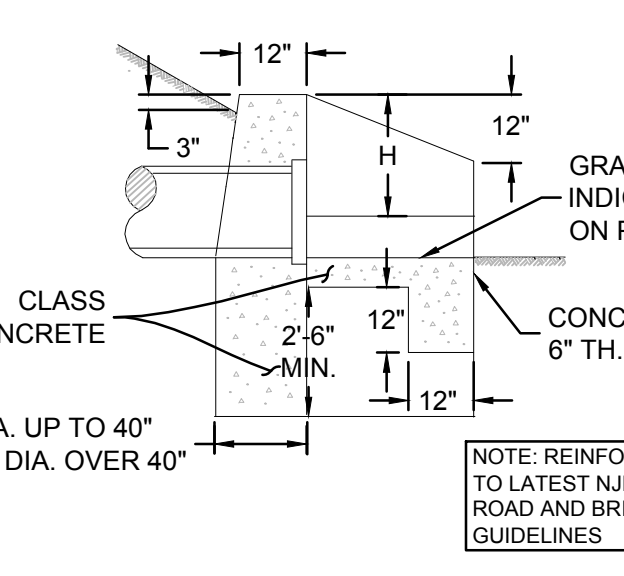
STORMWATER CHAMBER PVC CONNECTION DETAIL



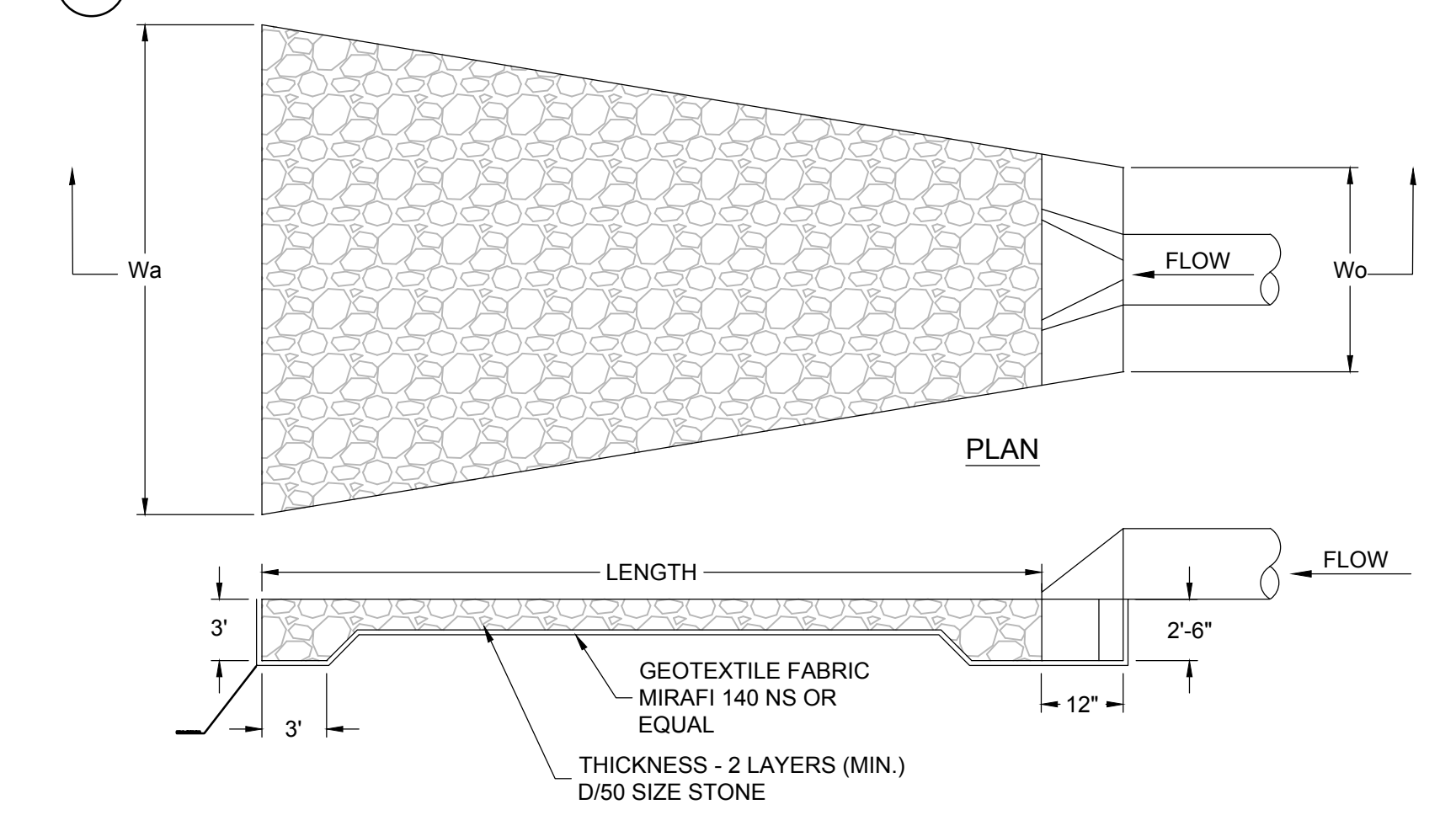
5 CONCRETE HEADWALL AND APRON



END VIEW OF INLET END ONLY



INLET END

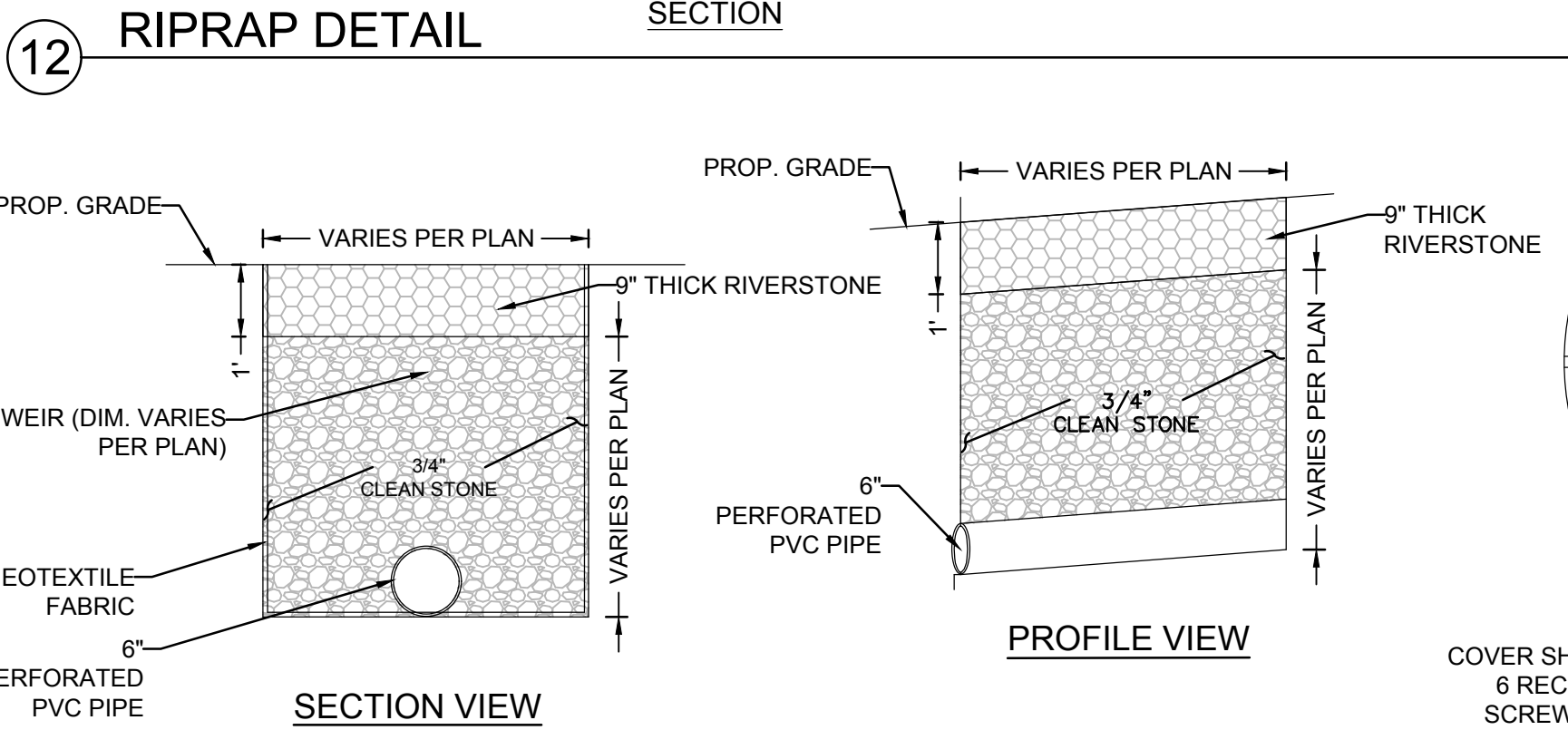
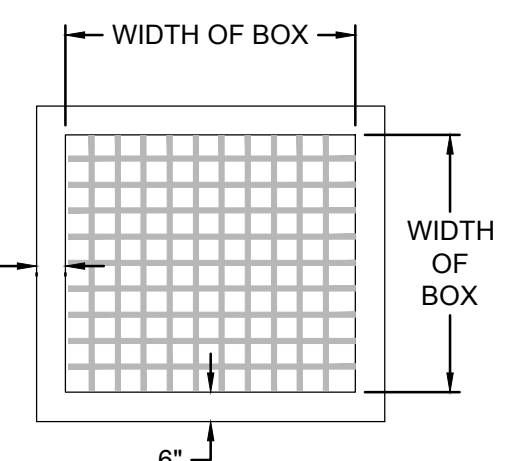


12 RIPRAP DETAIL

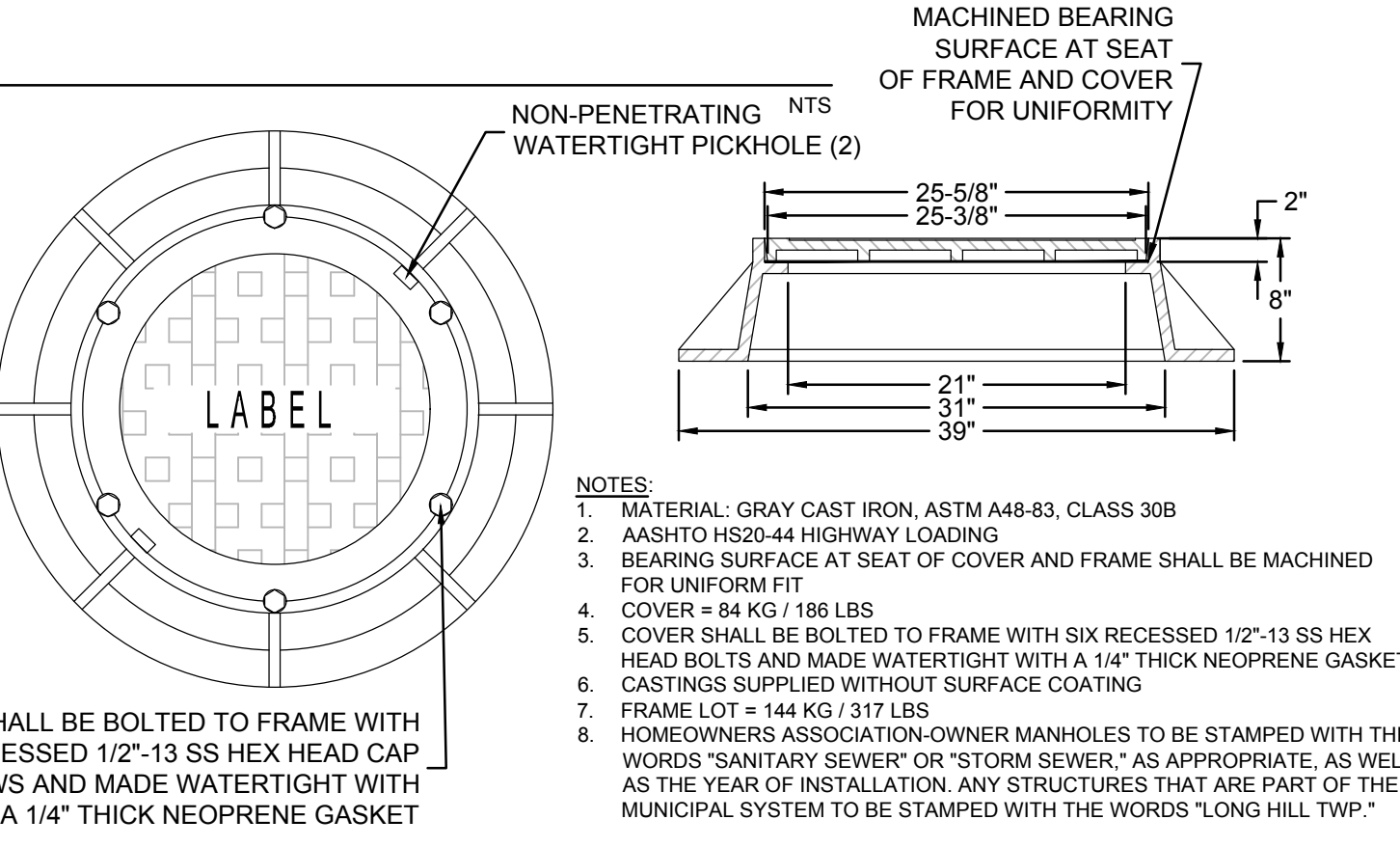
- NOTES:
- RIP-RAP SHALL EXTEND 2' ABOVE BOTTOM OF PIPE ON DOWNSTREAM END IN ACCORDANCE WITH SECTION 12-3 "STANDARDS FOR CONDUIT OUTLET PROTECTION" OF THE NEW JERSEY STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL.
 - BOTTOM WIDTH OF THE RIP-RAP SHALL EQUAL BOTTOM WIDTH OF THE CHANNEL & THE HEIGHT OF THE LINING SHALL EXTEND A MINIMUM OF 8" VERTICALLY FROM THE INVERT OF CULVERT PIPE.

PIPE CULVERT	LENGTH (FT)	WIDTH (FT)	Wa	Wo	D50 SIZE (IN)
A3	22'	4.5'	14'	6"	
B1	11'	3.75'	15'	6"	
B3	19'	4.5'	13'	6"	

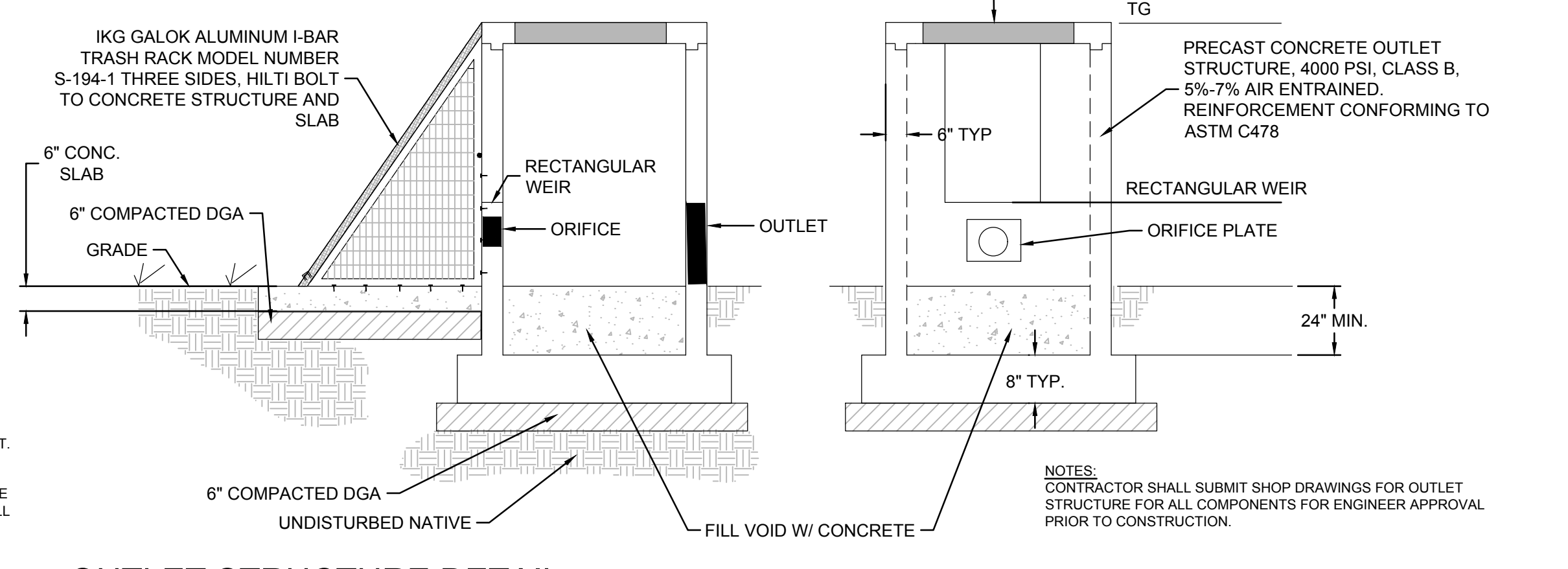
OS No.	INV. ORIFICE (DIA)	INV. BOT. OF RECTANGULAR WEIR (WIDTH)	TG (LENGTH) (WIDTH OF BOX)	INV. OUT
OS A-2	254.20 (6")	255.05 (2.30 FT)	256.35 (16 FT) (4 FT)	253.85
OS B-2	225.30 (4.5")	226.60 (0.80 FT)	227.80 (16 FT) (4 FT)	224.50



8 STONE CONVEYANCE TRENCH DETAIL



10 MANHOLE COVER DETAIL



9 OUTLET STRUCTURE DETAIL

140 WEST MAIN STREET HIGH BRIDGE, NJ 08829
 PH. 908-238-0544 FAX. 908-238-9572
 A PROFESSIONAL ASSOCIATION
 CERTIFICATE OF AUTHORIZATION NO.: 24GA28021500 EXP. 8/31/2020

NO.	BY	DATE
4	PER TOWNSHIP ENGINEER	KFO 12/15/20
3	PER TOWNSHIP ENGINEER	CBR 06/05/20
2	PER TOWNSHIP COMMENTS	MMS 02/04/19
1	PER TOWNSHIP COMMENTS	MMS 09/07/18

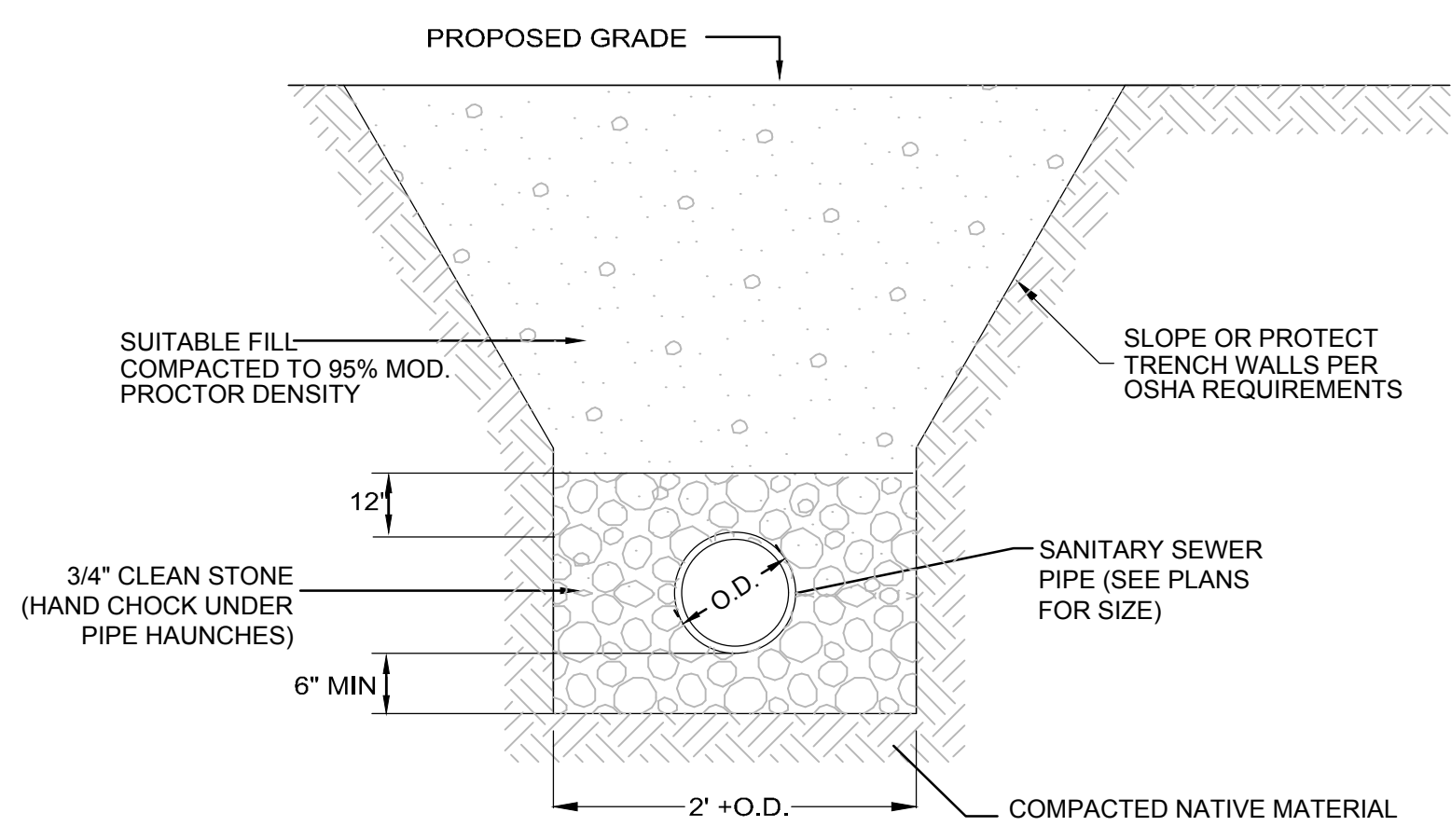
12/15/2020 DATE

CHRISTOPHER NUSSER
 PROFESSIONAL ENGINEER
 N.J. P.E. NO. 24GE049025

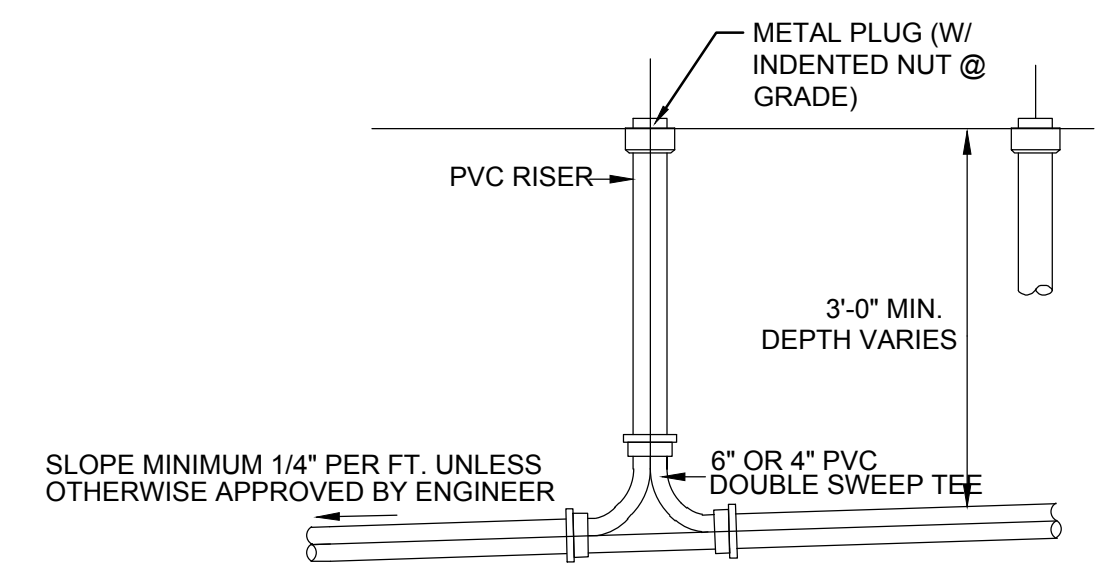
PROJECT: MAJOR SUBDIVISION PLAN FOR MARIO PARISI
 BLOCK 13302, LOT 16.01
 DELAWARE AVENUE
 LONG HILL TOWNSHIP
 MORRIS COUNTY NEW JERSEY

TITLE: CONSTRUCTION DETAILS

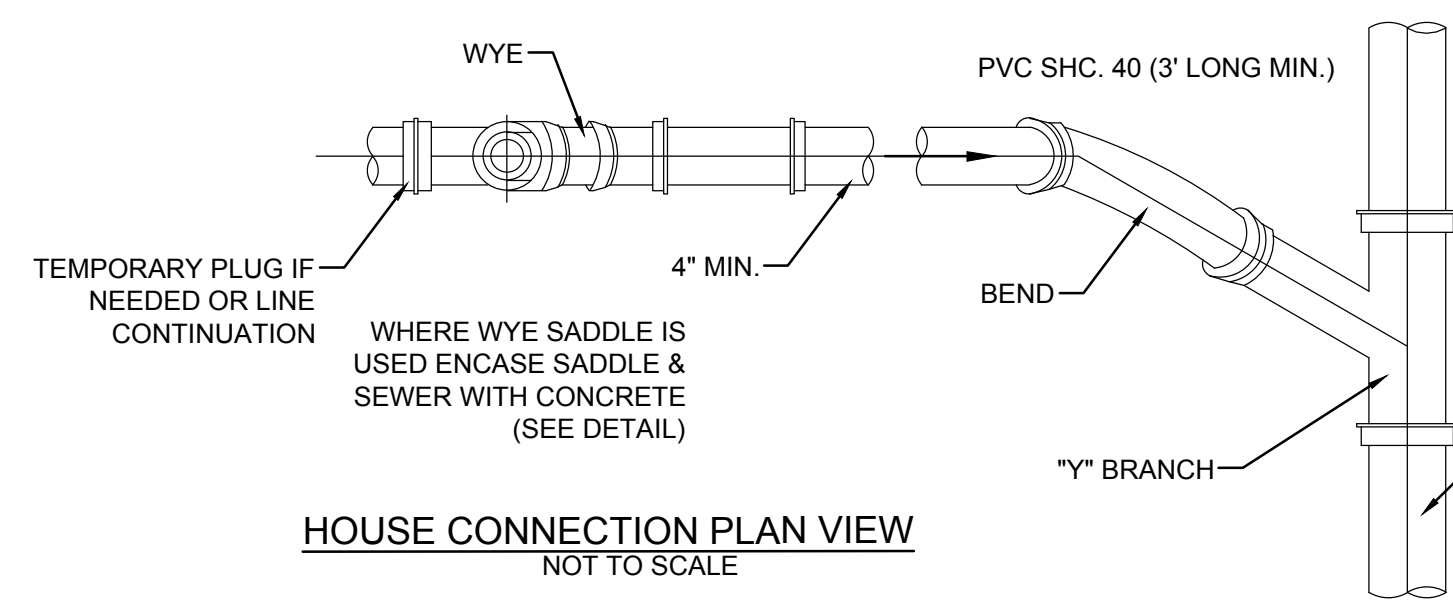
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DESIGNED: MMS	
CHECKED: CN	
FILENAME: XX-DETAILS.DWG	
DATE: 09/22/2017	



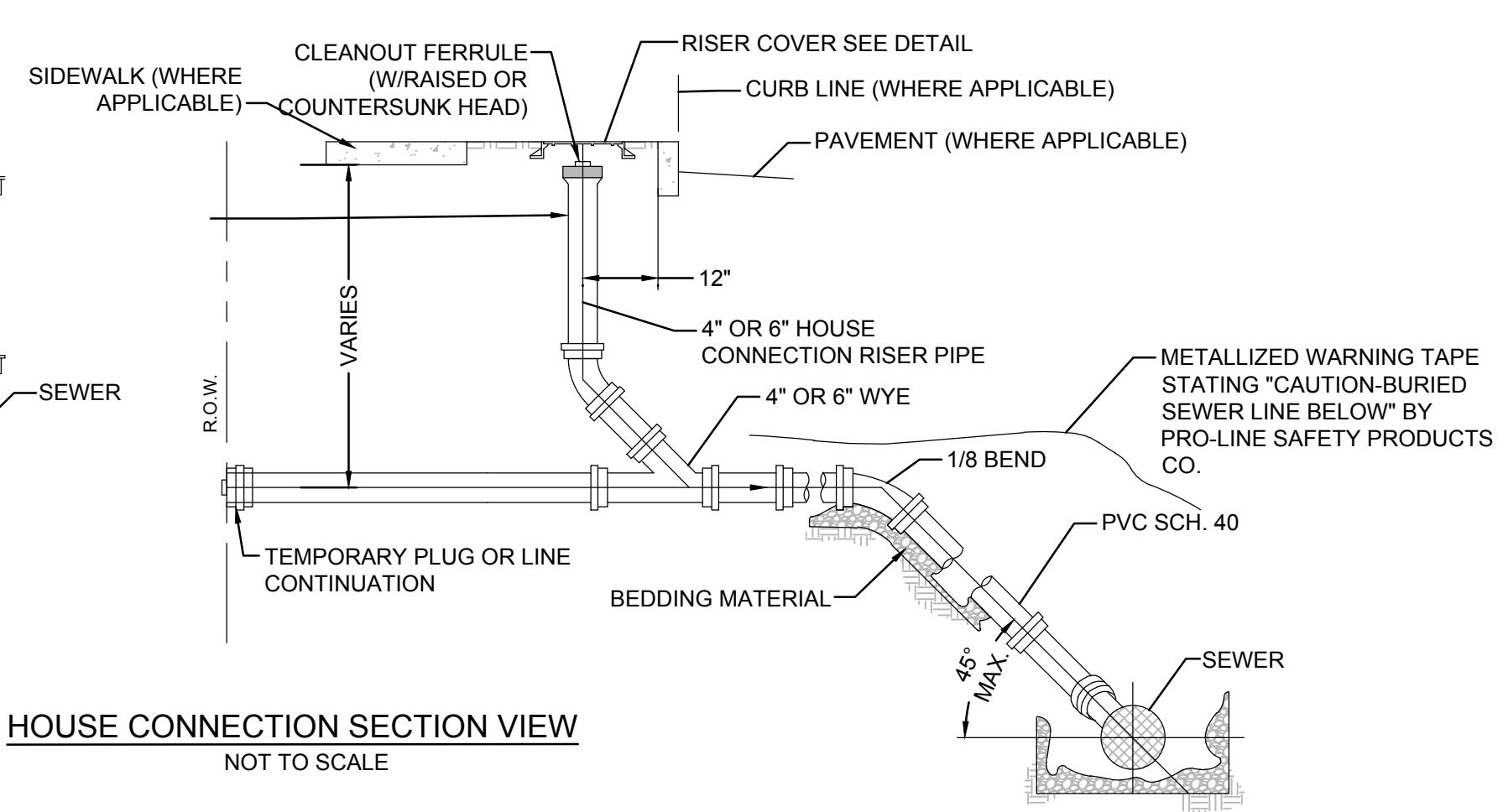
1 P.V.C. SANITARY SEWER TRENCH
NTS



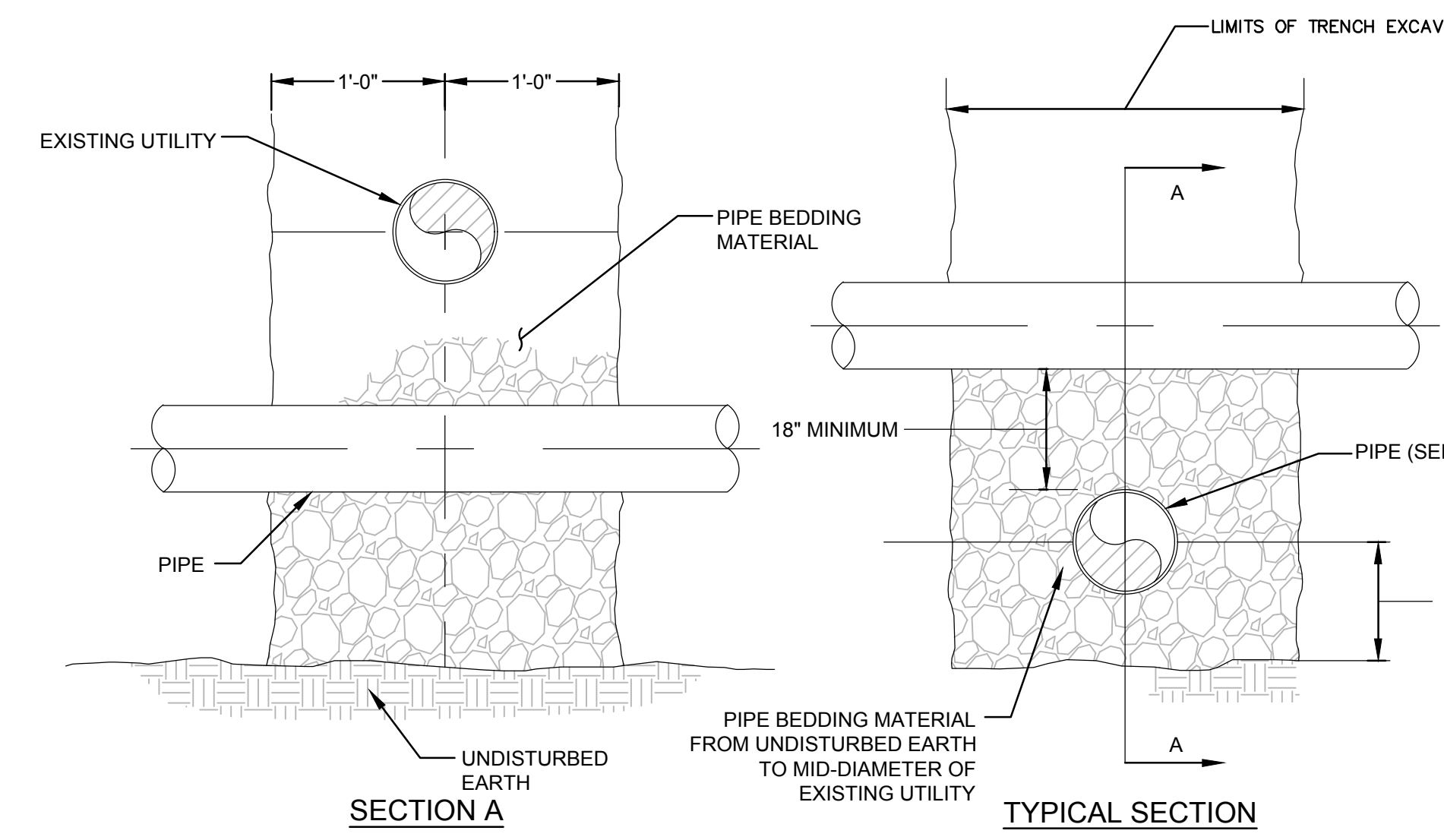
2 STANDARD SANITARY LATERAL CLEANOUT
NTS



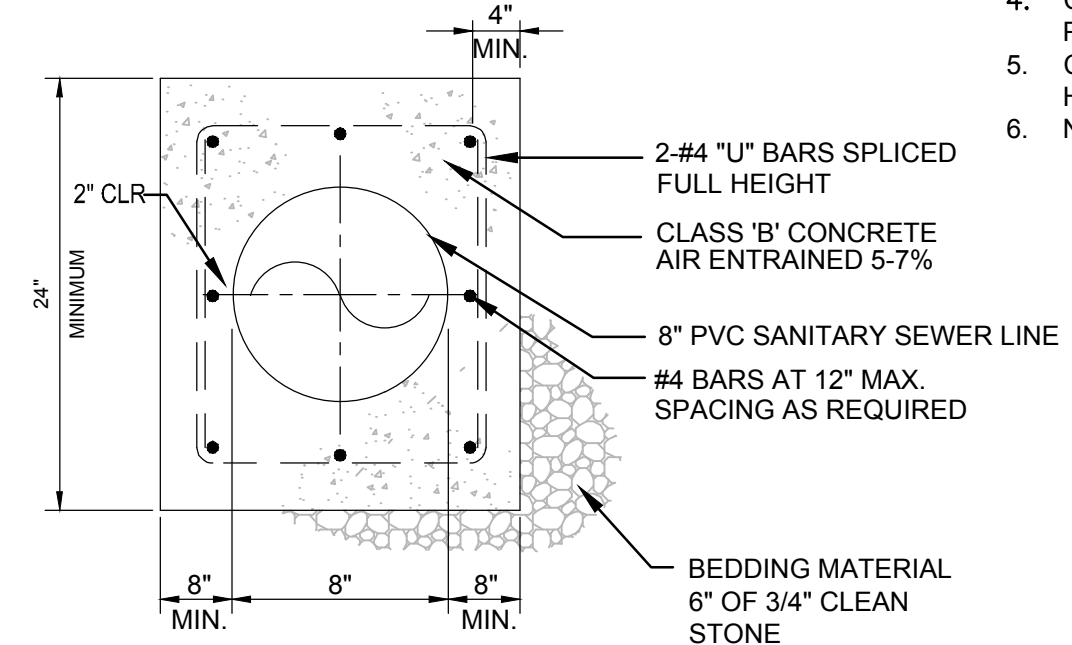
3 HOUSE CONNECTION
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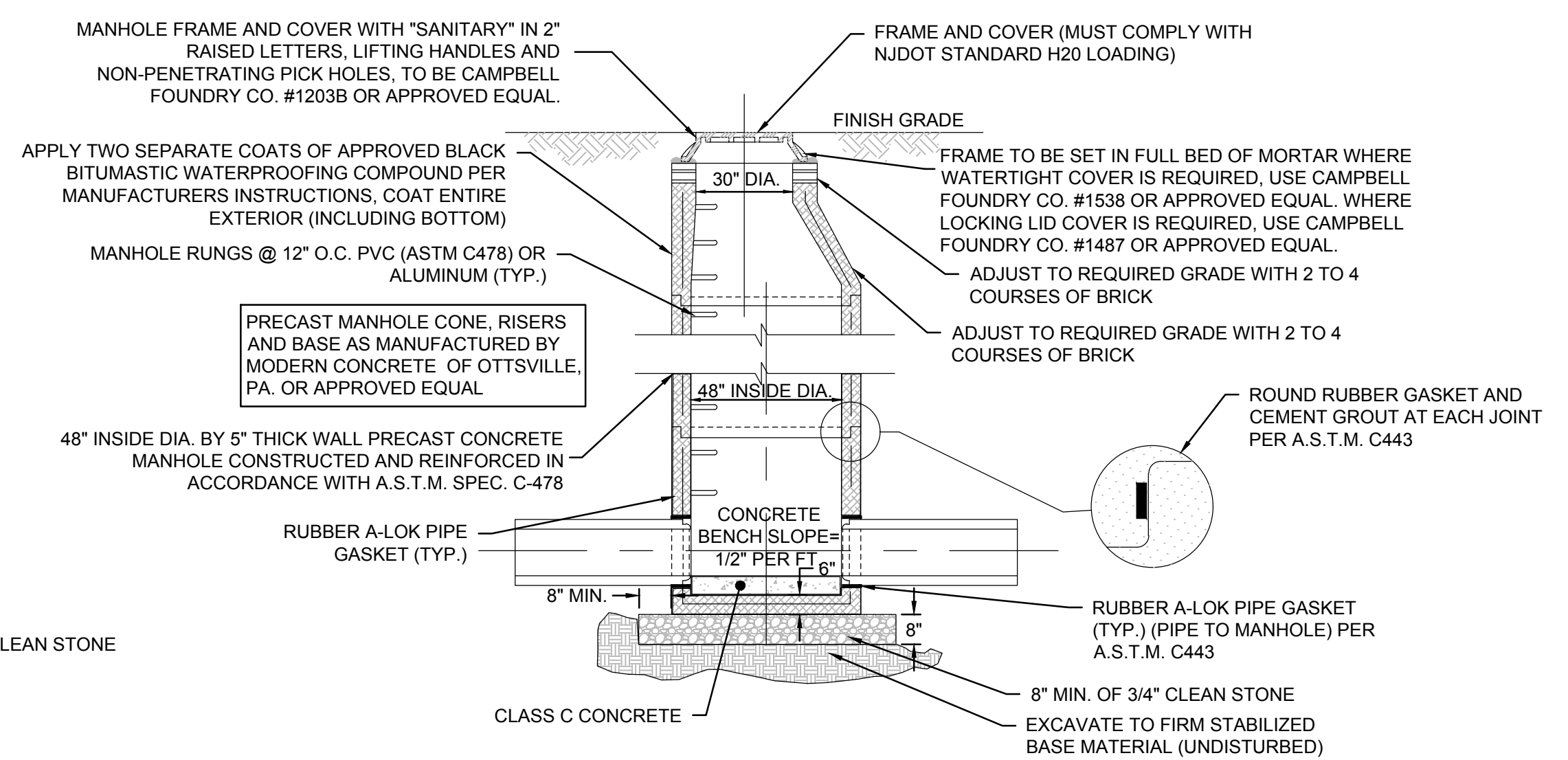
4 HOUSE CONNECTION SECTION VIEW
NOT TO SCALE



5 SANITARY SEWER CONCRETE ENCASEMENT
NTS



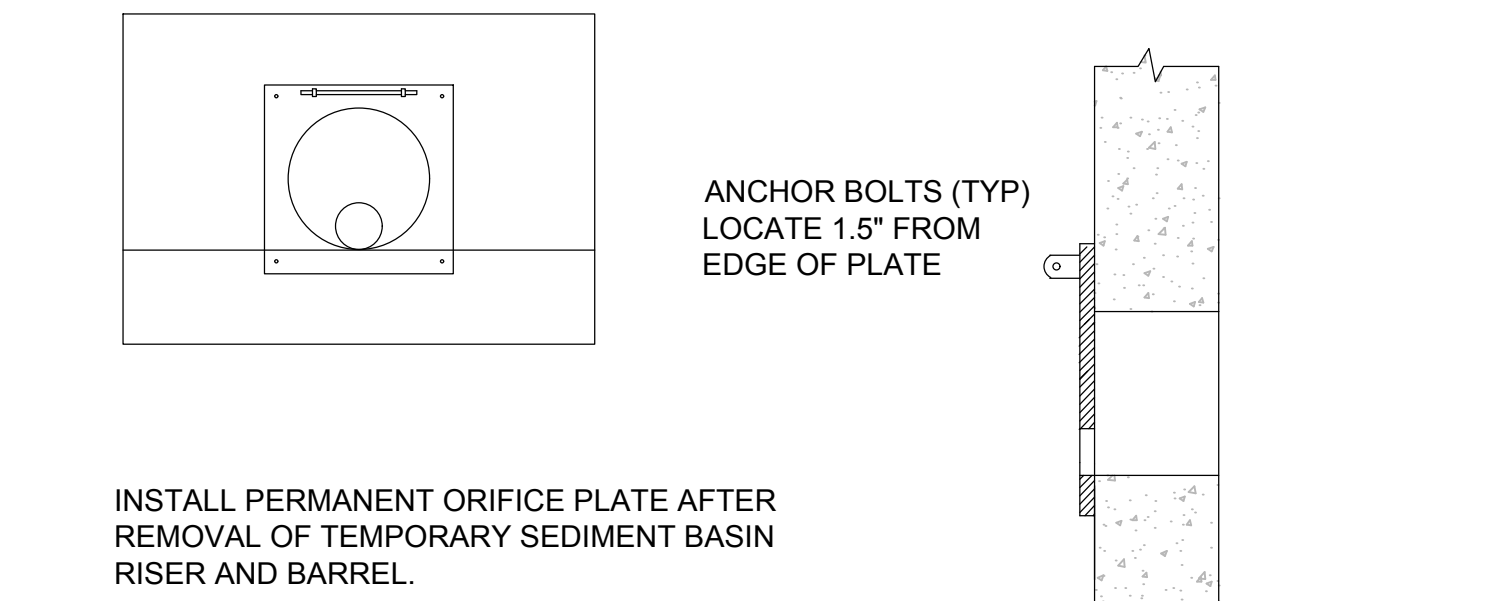
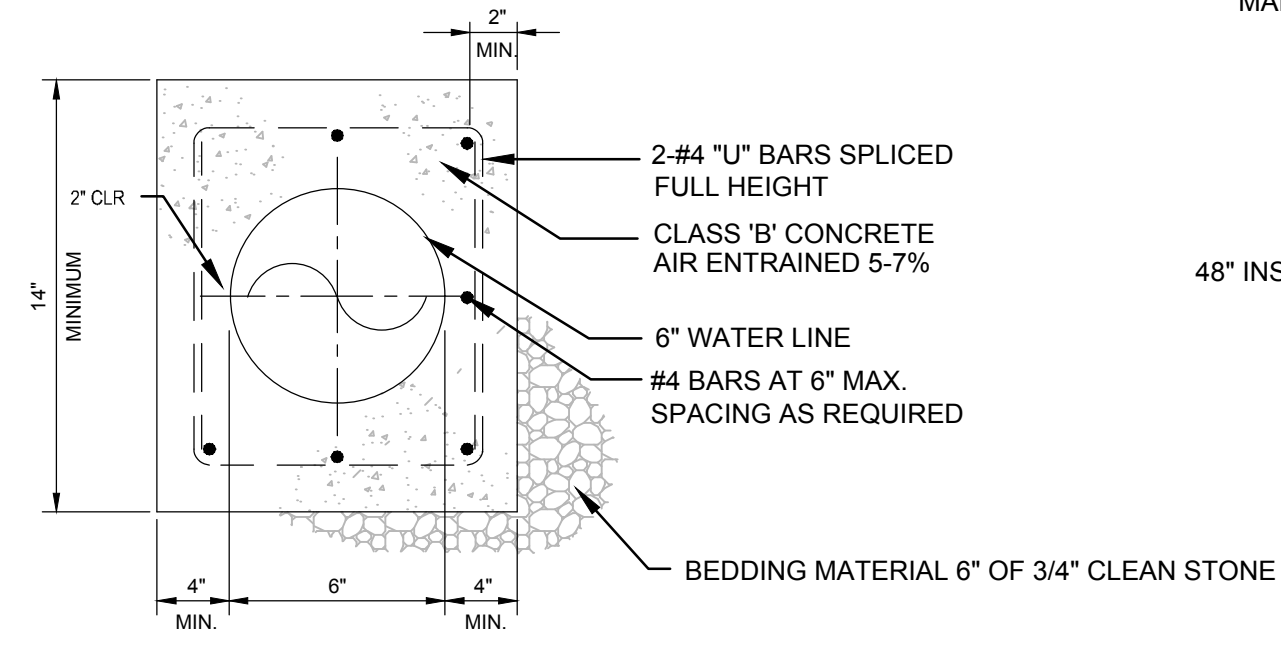
6 SANITARY HOUSE CONNECTION
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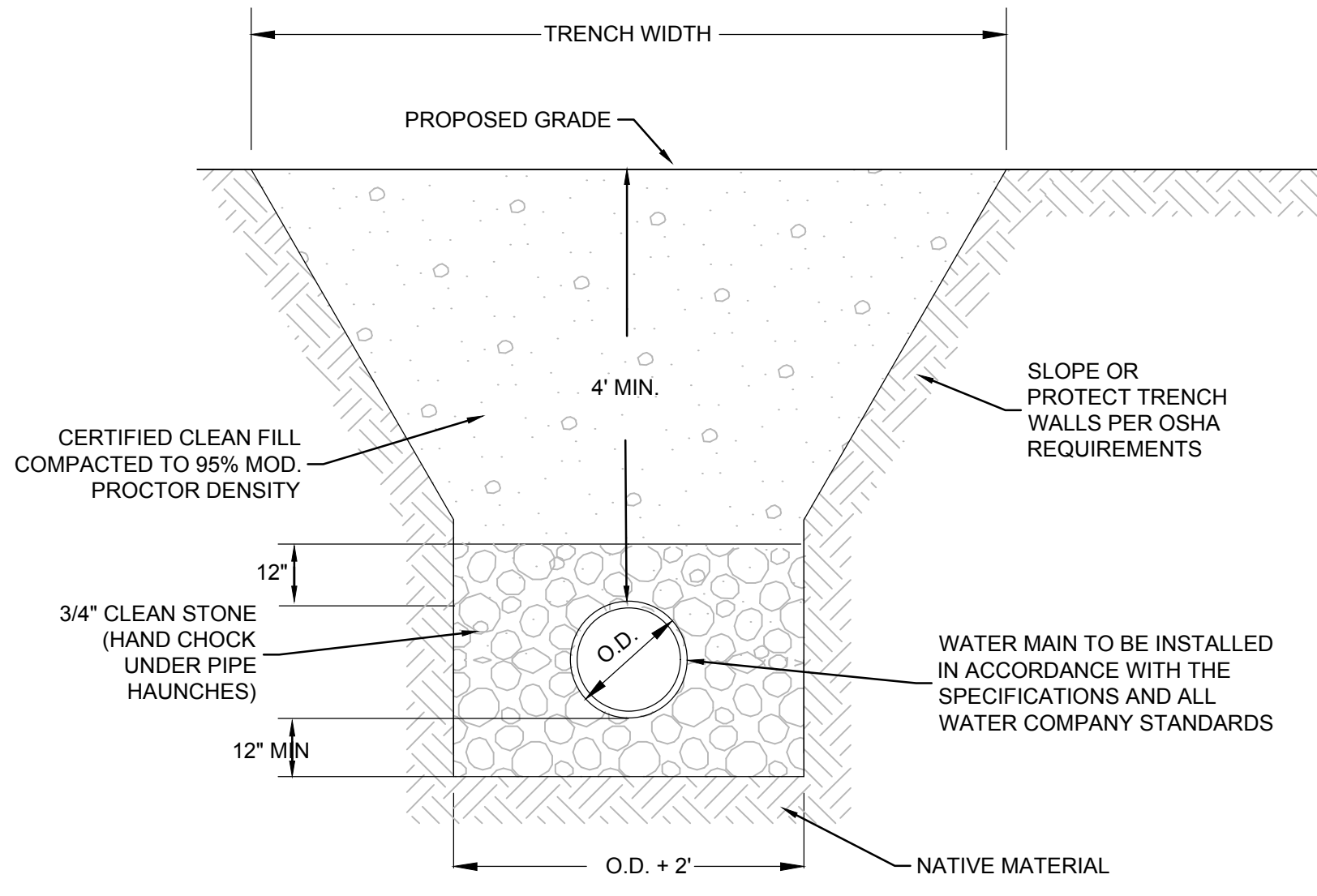
7 PRECAST MANHOLE WITH PRECAST CONCRETE BASE
NTS

4 UTILITY CROSSING DETAIL
NTS

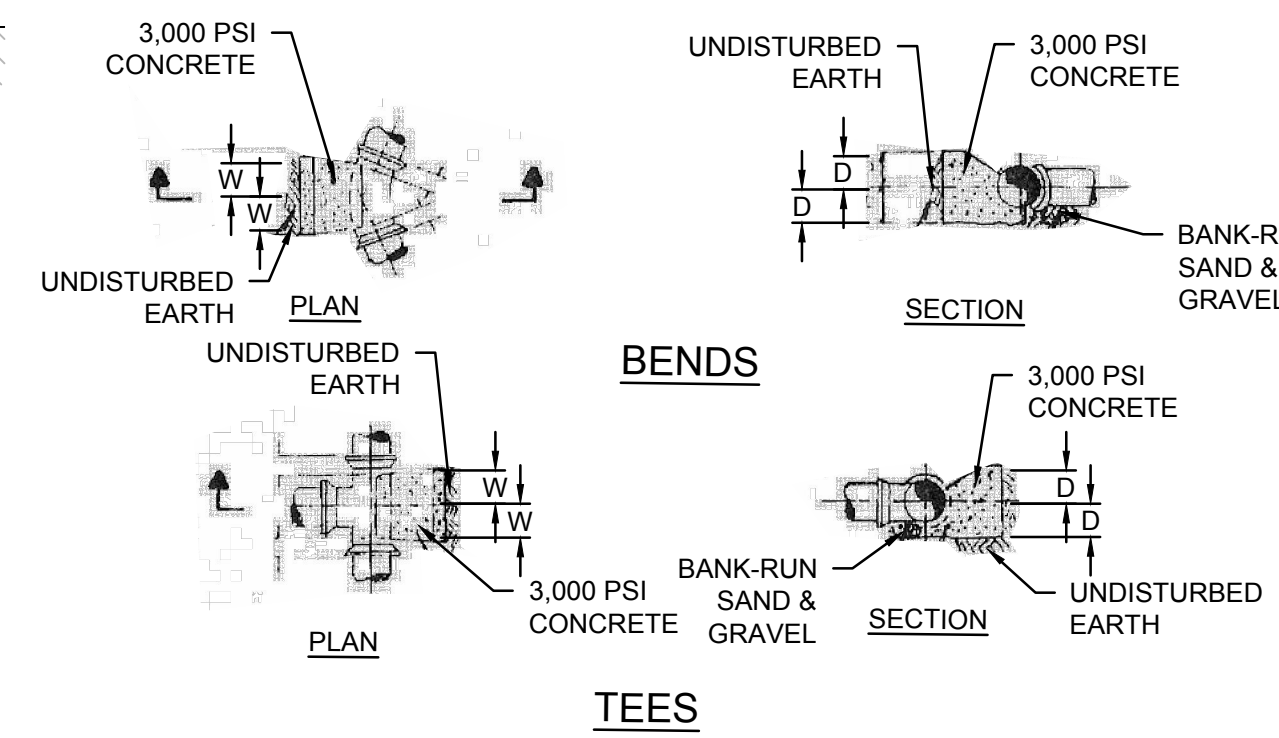
9 WATER SERVICE CONCRETE ENCASEMENT
NTS



7 ORIFICE PLATE
NTS



8 WATER SERVICE TRENCH DETAIL
NTS



10 THRUST BLOCK DETAIL
NTS

THRUST BLOCK SCHEDULE								
DESCRIPTION OF FITTINGS	DIMENSION	DIAMETER OF PIPE						
		4"	6"	8"	10"	12"	16"	20"
TEES & CAPS	W	0.75'	1.25'	1.5'	1.75'	2.0'	3.5'	4'
	D	0.75'	1.25'	2.0'	2.25'	2.5'	3.0'	3.5'
90 DEG. BENDS	W	1.5'	2.0'	3.0'	3.5'	4.0'	6.0'	6.5'
	D	0.75'	1.5'	2.0'	2.25'	2.5'	3.5'	4.0'
45 DEG. BENDS	W	1.0'	1.5'	2.0'	2.5'	3.0'	4.0'	5.0'
	D	0.75'	1.0'	1.25'	1.75'	2.0'	2.75'	3.5'
22 1/2 DEG. BENDS	W	0.75'	1.5'	1.5'	2.0'	2.5'	3.5'	4.0'
	D	0.5'	1.0'	1.0'	1.5'	1.5'	2.0'	3.5'
11 1/2 DEG. BENDS	W	0.75'	1.0'	1.25'	1.5'	1.5'	2.5'	3.5'
	D	0.5'	1.0'	1.0'	1.25'	1.25'	1.5'	3.0'

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MORRIS COUNTY NEW JERSEY

TITLE:
**CONSTRUCTION
 DETAILS**

JOB NO.:	0115210	DRAWING NO.:	23
SCALE:	AS SHOWN		23
DESIGNED:	MMS		
CHECKED:	CN		
FILENAME:	XX-DETAILS.DWG		
DATE:	09/22/2017		