

SUSSEX HIGHWAY - ROUTE 13

PRINCIPAL W/UTILITY ROADWAY  
55 MPH SPEED LIMIT

N05°47'13"W 780.15'

N05°47'10"E 1011.55'

N05°47'13"W 780.15'

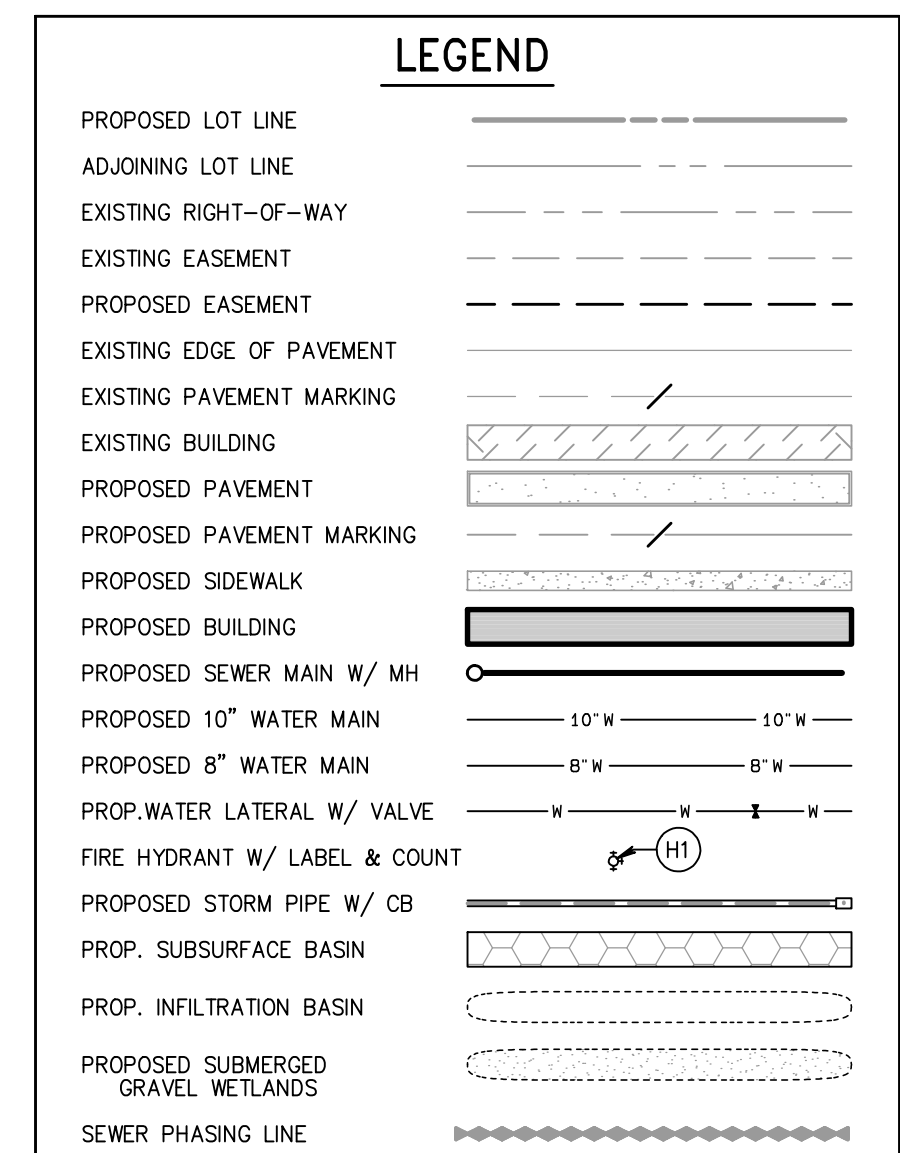
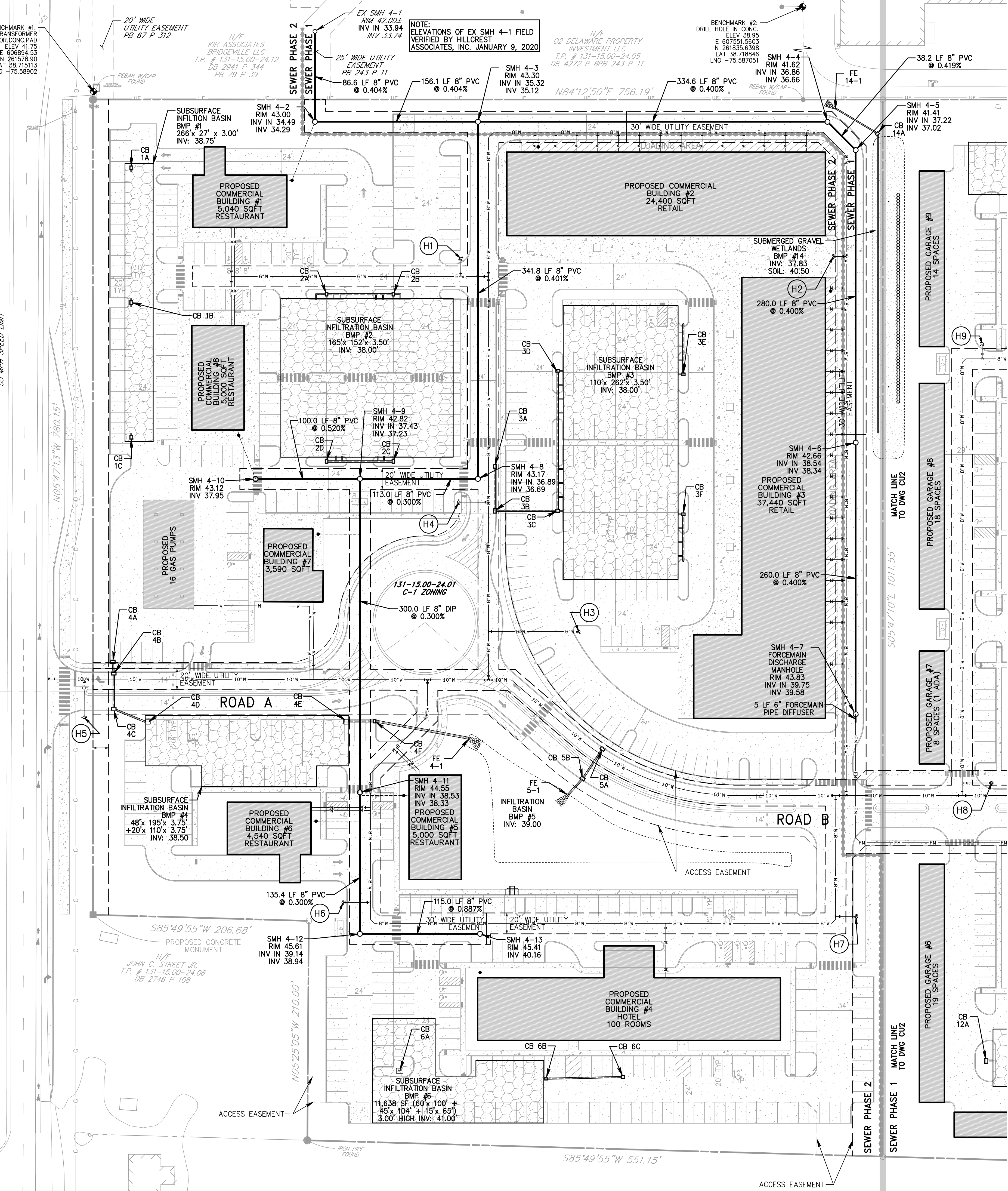
N05°47'10"E 1011.55'

N05°47'13"W 780.15'

N05°47'10"E 1011.55'

N05°47'13"W 780.15'

N05°47'10"E 1011.55'



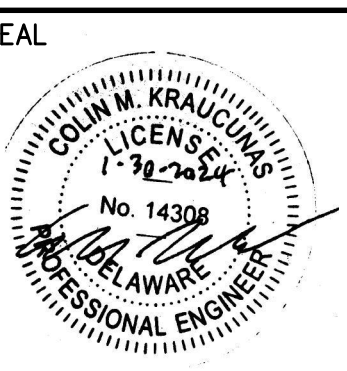
SEWER FLOWS

TOTAL 418 EDU  
 1.0 EDU X 342 DWELLING UNITS = 342 EDU  
 1.0 EDU PER 3,000 SF X 85,330 SF RETAIL / PAD SITES = 29 EDU  
 1.0 EDU (PER 50 SEATS + NUMBER OF FIXTURE UNITS DIVIDED BY 6) X 8,000 SF EATING PLACES = 8 + 5 = 13 EDU  
 1/3 EDU PER ROOM X 100 ROOM HOTEL = 34 EDU

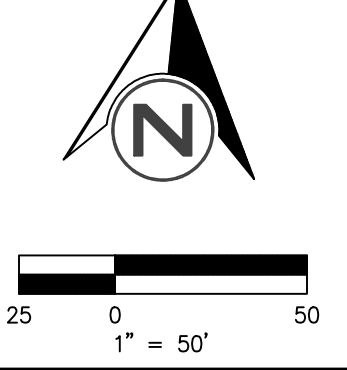
GENERAL UTILITY NOTES

- ALL PROPOSED SANITARY SEWER MAINS SHALL BE MINIMUM 8" SDR 35 PVC UNLESS SPECIFIED OTHERWISE. PROPOSED DIP SANITARY SEWER PIPE SHALL BE DUCTILE IRON PIPE CLASS 52 (401 PROTECTO) EPOXY COATED.
- ALL FACILITIES ARE TO MEET THE SUSSEX COUNTY ENGINEERING DEPARTMENT'S STANDARDS AND SPECIFICATIONS.
- A MINIMUM 10' HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN ALL SANITARY SEWER AND WATER DISTRIBUTION MAINS.
- EXISTING SUBSURFACE UTILITY INFORMATION, AS SHOWN, IS BASED ON INFORMATION PROVIDED BY HILLCREST ASSOCIATES, INC. ALL UNDERGROUND UTILITY LOCATIONS SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY.
- LOCAL UTILITY COMPANIES SHOULD BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY UTILITY CONSTRUCTION.
- ALL COMMERCIAL BUILDINGS AND CLUBHOUSES SHALL BE SERVICED BY A 8" SDR 35 PVC LATERAL AND CLEANOUT. ALL RESIDENTIAL BUILDINGS SHALL BE SERVICED BY AN 8" SDR 35 PVC LATERAL AND CLEANOUT.
- A BLANKET EASEMENT OF ALL SEWERS TO BE DEDICATED TO SUSSEX COUNTY.
- A "USE OF EXISTING INFRASTRUCTURE AGREEMENT" SHALL BE REQUIRED.
- ALL DESIGNED WATER MAINS SHALL BE C909 CL235 PVC.
- ALL WATER CONNECTIONS TO BE MADE AT THE DIRECTION OF THE TOWN OF BRIDGEVILLE AND ALL FACILITIES ARE TO MEET THE TOWN OF BRIDGEVILLE STANDARDS AND SPECIFICATIONS.
- LOCAL UTILITY COMPANIES SHOULD BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY UTILITY CONSTRUCTION.
- SUSSEX COUNTY MAINTENANCE ENDS AT THE CLEANOUT.
- THESE STRUCTURES WILL BE PROTECTED BY AUTOMATIC SPRINKLERS IN ACCORDANCE WITH NFPA 13.
- LOCK BOX REQUIRED, CONTACT LOCAL FIRE CHIEF FOR ORDERING INFORMATION AND LOCATION OF BOX ON THE BUILDING.
- INSTALL SHUTOFF VALVES FOR EACH FIRE SERVICE AND EACH DOMESTIC SERVICE. VALVES TO BE PLACED IN THE GRASS BEHIND THE SIDEWALK.
- INSTALL DOUBLE CHECK BACK FLOW PREVENTER FOR ALL FIRE DEPARTMENT SERVICES.
- ALL BUILDINGS UNDER 10,000 SQUARE FEET OF FLOOR AREA WILL HAVE A 1" DOMESTIC SERVICE AND METER. ALL RESIDENTIAL APARTMENT BUILDINGS WILL HAVE A 2" DOMESTIC SERVICE AND A SEPARATE 6" FIRE SPRINKLER CONNECTION.

**AH**  
**HOPE**  
**DAVID**  
**PORT**



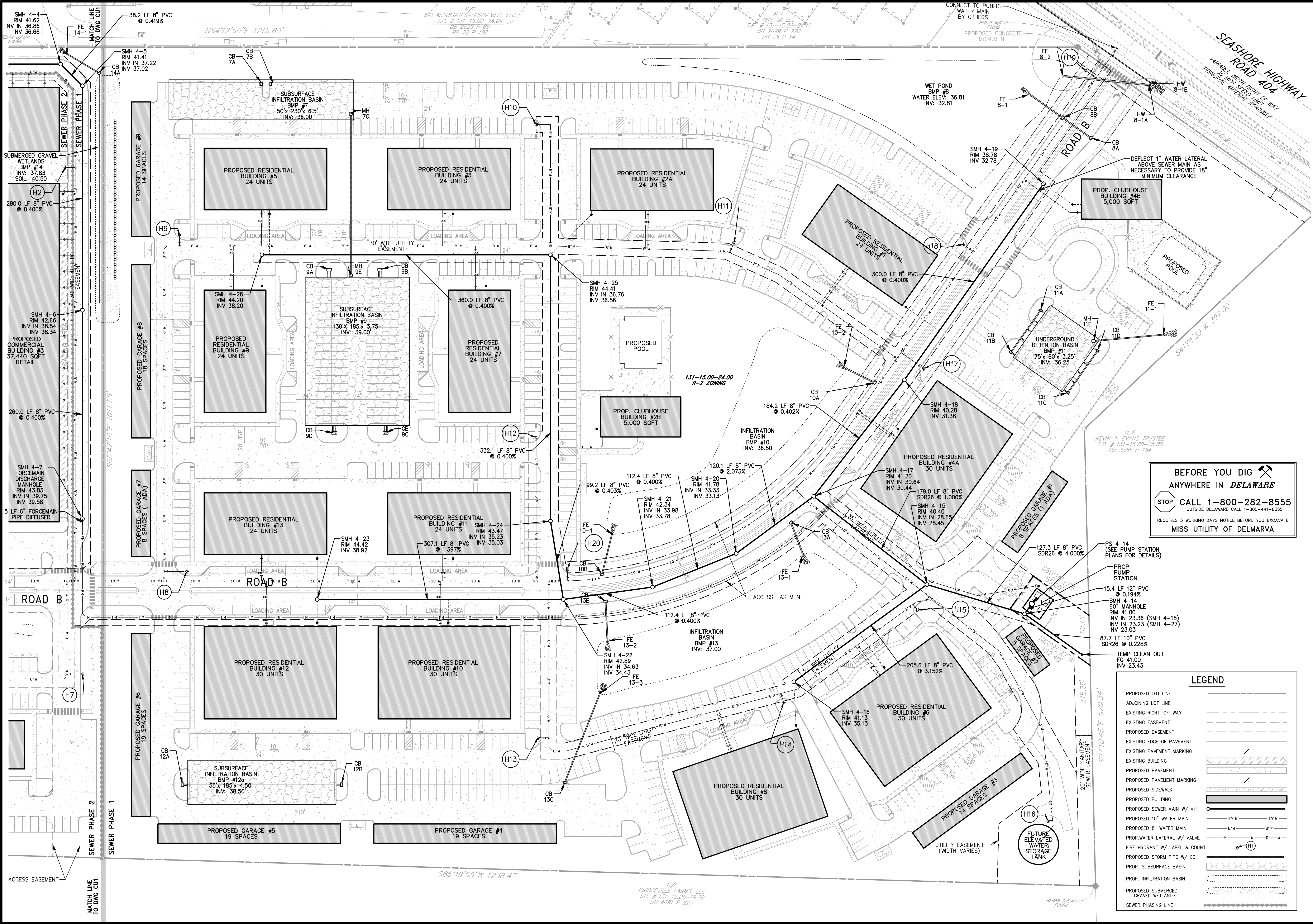
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UTILITY PLAN  
 GENERAL DEVELOPMENT PLANS  
 BRIDGEVILLE TOWN CENTER  
 TOWN OF BRIDGEVILLE  
 SUSSEX COUNTY, DELAWARE

**BEFORE YOU DIG**  
 ANYWHERE IN DELAWARE  
 STOP CALL 1-800-282-8555  
 OUTSIDE DELAWARE CALL 1-800-441-8355  
 REQUIRES 3 WORKING DAYS NOTICE BEFORE YOU EXCAVATE  
 MISS UTILITY OF DELMARVA

DATE:	9-26-22
DRAWN BY:	CMK
CHECKED BY:	AJH
FILE:	4270BD2.pro
PROJECT NO.:	4270
SHEET NO.:	CU1

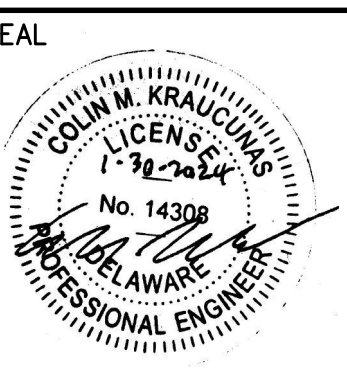


**BEFORE YOU DIG**  
 ANYWHERE IN **DELAWARE**  
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 OUTSIDE DELAWARE CALL 1-800-441-8355  
 REQUIRES 3 WORKING DAYS NOTICE BEFORE YOU EXCAVATE  
 MISS UTILITY OF DELMARVA

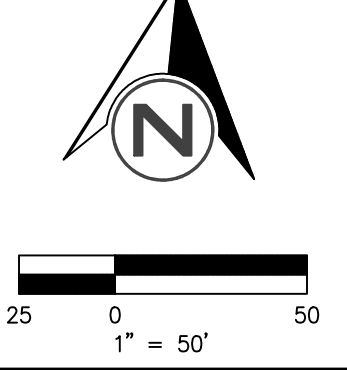
**LEGEND**

PROPOSED LOT LINE	---
ADJOINING LOT LINE	---
EXISTING RIGHT-OF-WAY	---
EXISTING EASEMENT	---
PROPOSED EASEMENT	---
EXISTING EDGE OF PAVEMENT	---
EXISTING PAVEMENT MARKING	---
EXISTING BUILDING	---
PROPOSED PAVEMENT	---
PROPOSED PAVEMENT MARKING	---
PROPOSED SIDEWALK	---
PROPOSED BUILDING	---
PROPOSED SEWER MAIN W/ MH	---
PROPOSED 10" WATER MAIN	---
PROPOSED 8" WATER MAIN	---
PROP. WATER LATERAL W/ VALVE	---
FIRE HYDRANT W/ LABEL & COUNT	---
PROPOSED STORM PIPE W/ CB	---
PROP. SUBSURFACE BASIN	---
PROP. INFILTRATION BASIN	---
PROPOSED SUBMERGED GRAVEL WETLANDS	---
SEWER PHASING LINE	---

**AH DAVENPORT**  
 PROFESSIONAL ENGINEER  
 LICENSE NO. 1-92-245  
 NO. 14308  
 DELAWARE  
 PROFESSIONAL ENGINEER



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**UTILITY PLAN**  
**GENERAL DEVELOPMENT PLANS**  
**BRIDGEVILLE TOWN CENTER**  
**TOWN OF BRIDGEVILLE**  
**SUSSEX COUNTY, DELAWARE**

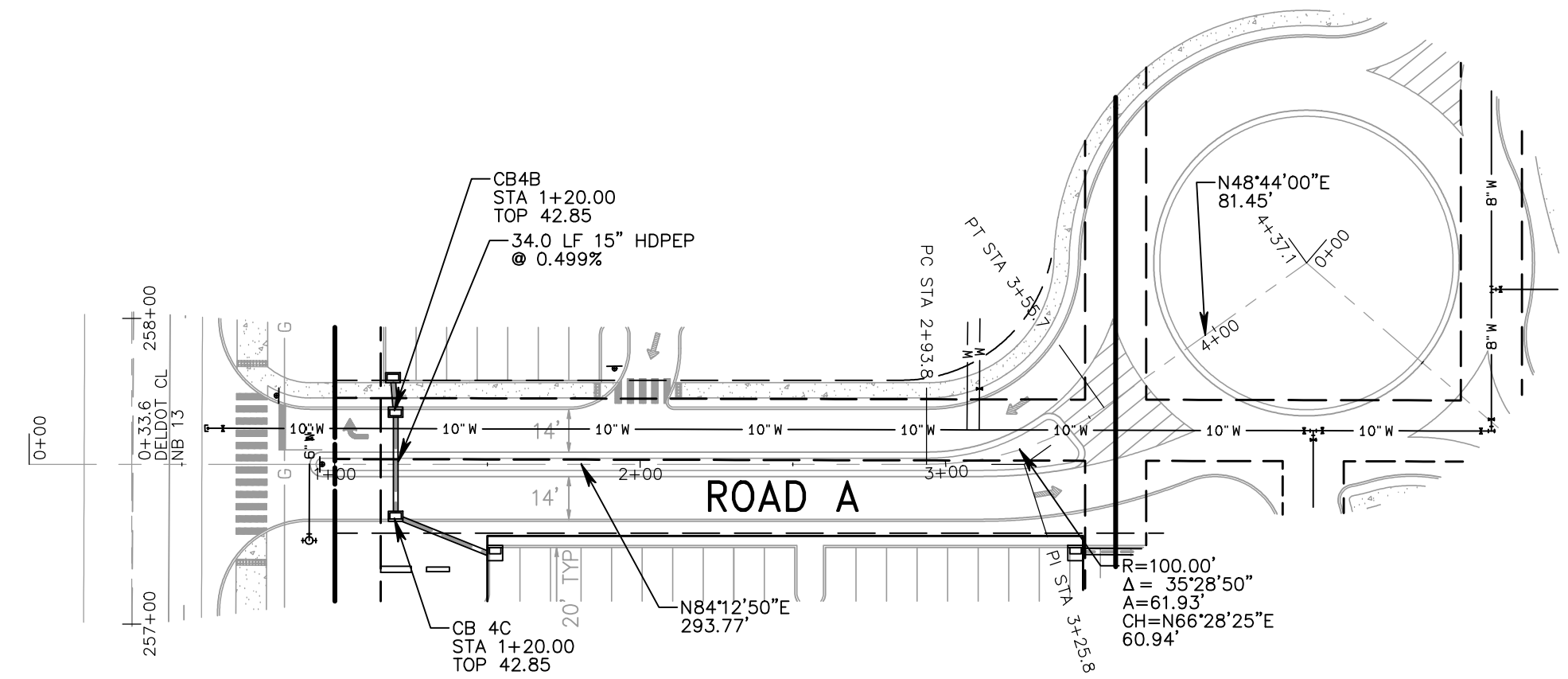
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DRAWN BY:	CMK
CHECKED BY:	AJH
FILE:	4270BD2.pro
PROJECT NO.:	4270
SHEET NO.:	CU2

PO BOX 430  
 HOCKESSIN, DE 19707

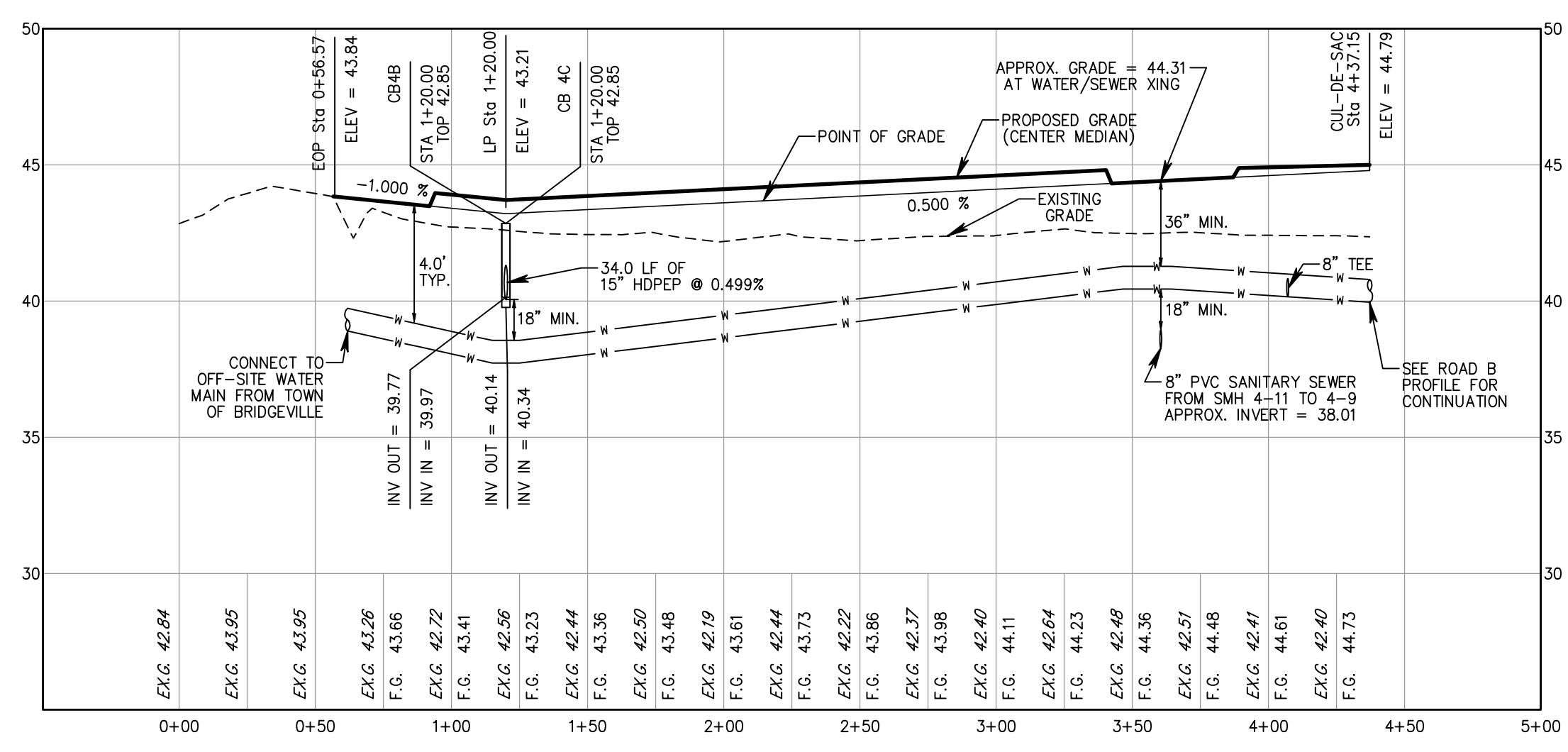
AHDAVENPORT.COM  
 302.889.6014

CU2

SUSSEX HIGHWAY - ROUTE 13  
 PROJECT NO. 4270  
 DATE: 9-26-22

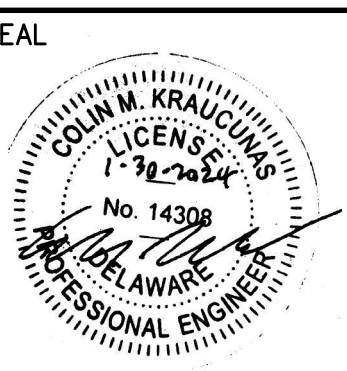


PLAN VIEW - ROAD A  
 SCALE: 1"=50'

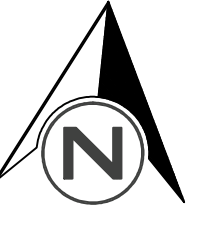


PROFILE ALONG ROAD A  
 SCALE: HORIZ: 1"=50'; VERT: 1"=5'

**AH**  
**HOZEVACK**  
 ENGINEERS  
 P.C.  
 AHDavenport.com  
 302.889.6014  
 P.O. BOX 430  
 HOCKESSIN, DE 19707



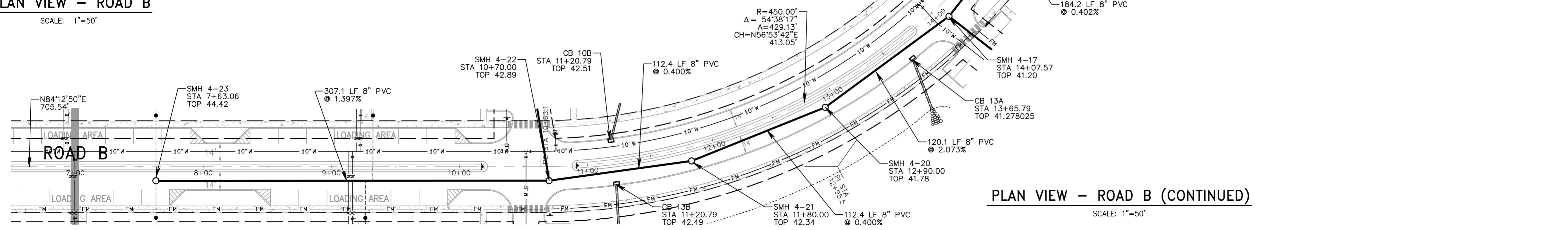
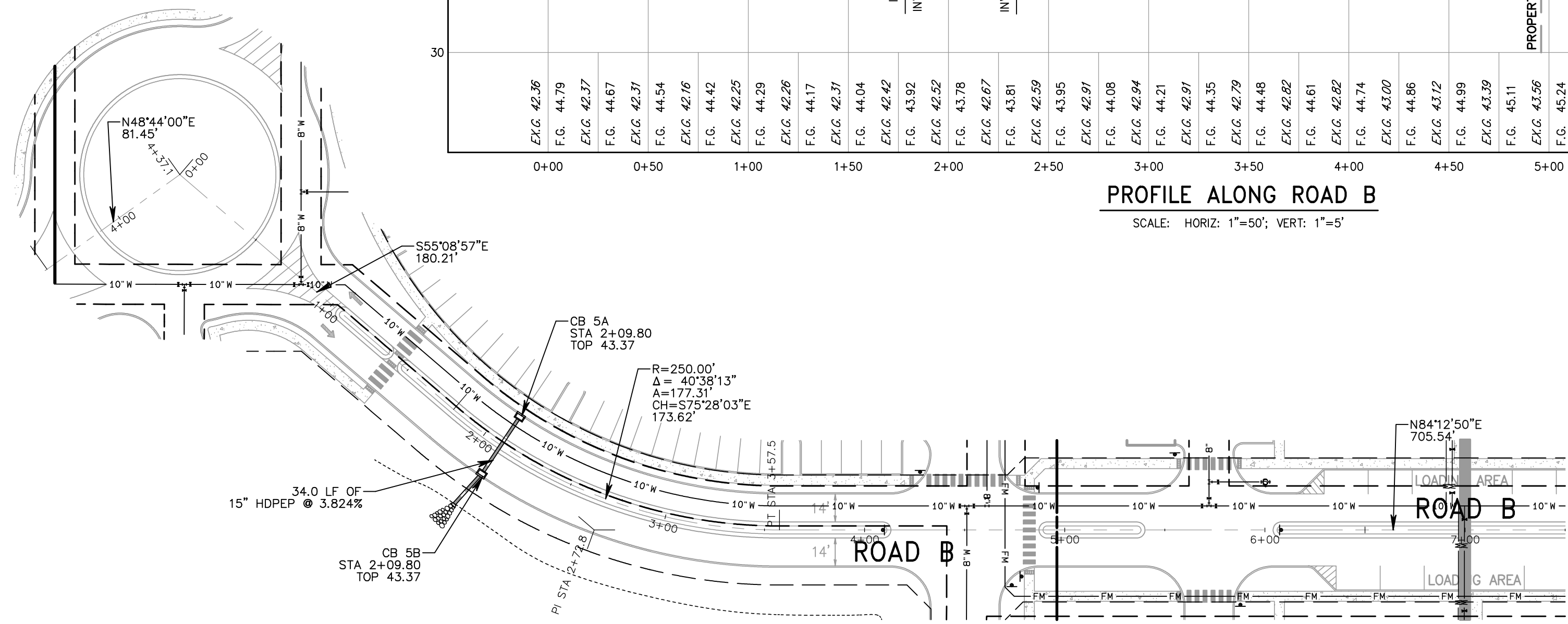
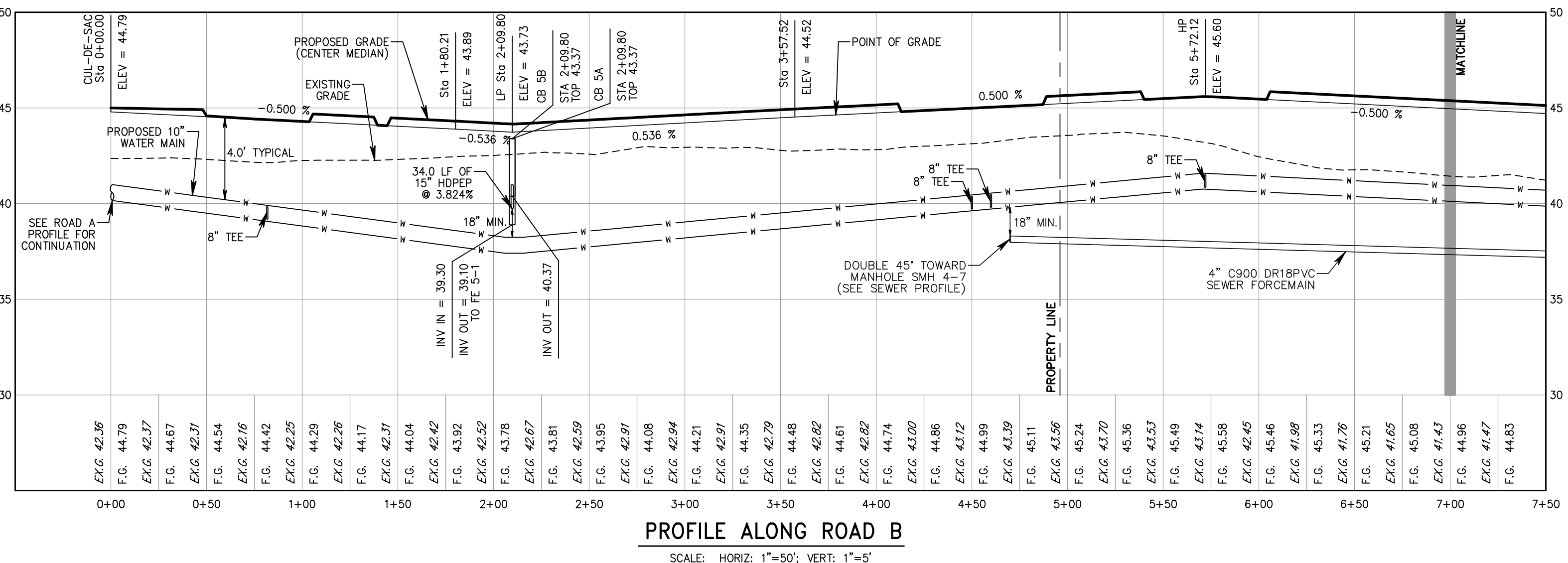
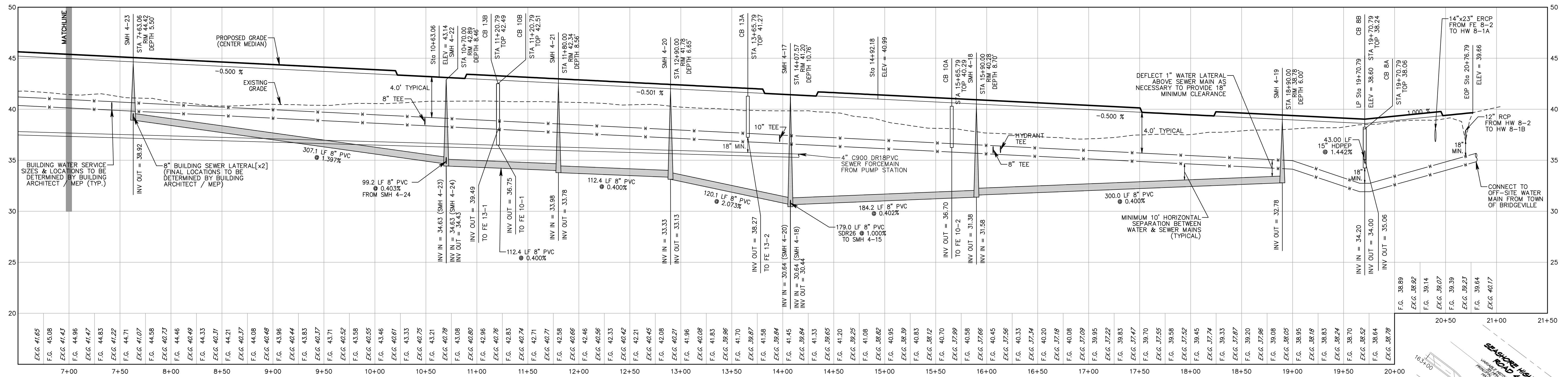
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ROAD A PLAN & PROFILE  
 GENERAL DEVELOPMENT PLANS  
 BRIDGEVILLE TOWN CENTER  
 TOWN OF BRIDGEVILLE  
 SUSSEX COUNTY, DELAWARE

SCS COMMENTS	AJH 11-28-23
NONE THIS SHEET	10-31-23
SCD/SCS COMMENTS	CMK 8-7-23
AGENCY COMMENTS	AJH 5-18-23
REVISIONS	DATE
DATE:	9-26-22
DRAWN BY: CMK	CHECKED: AJH
FILE:	4270BD2.pro
PROJECT NO.:	4270

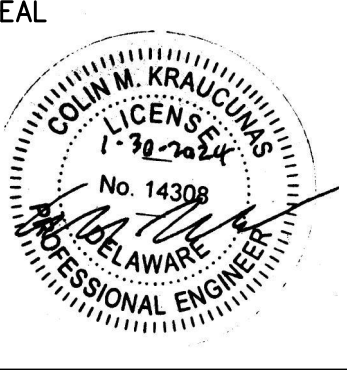
SHEET NO.  
**CU3**



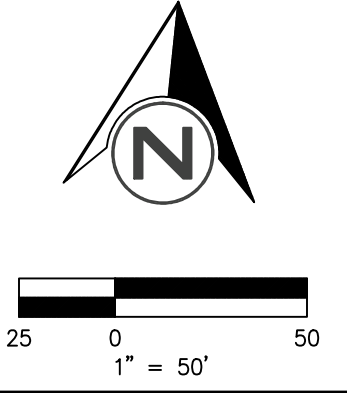
**AH  
HAYDEN  
ENGINEERS**

PO BOX 430  
HOCCESIN, DE 19707

AHDAYENPORT.COM  
302.889.6014



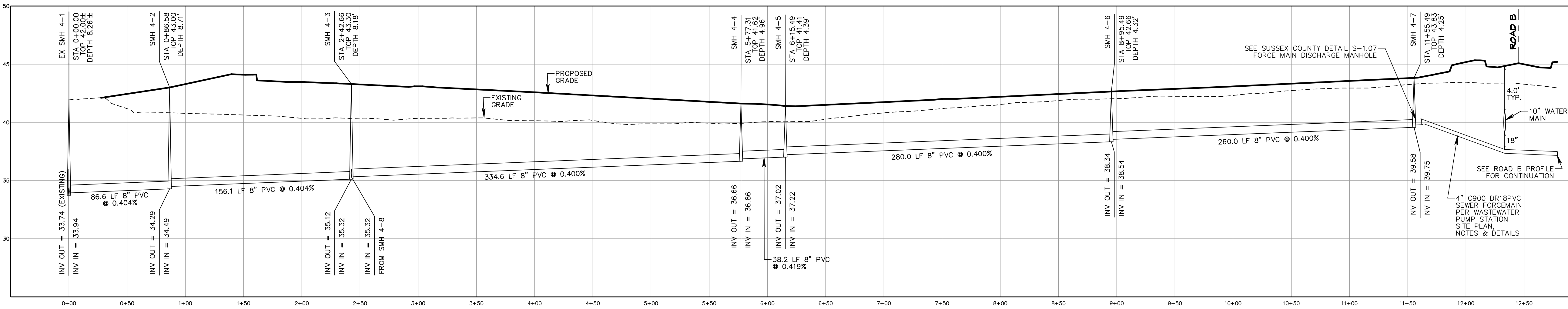
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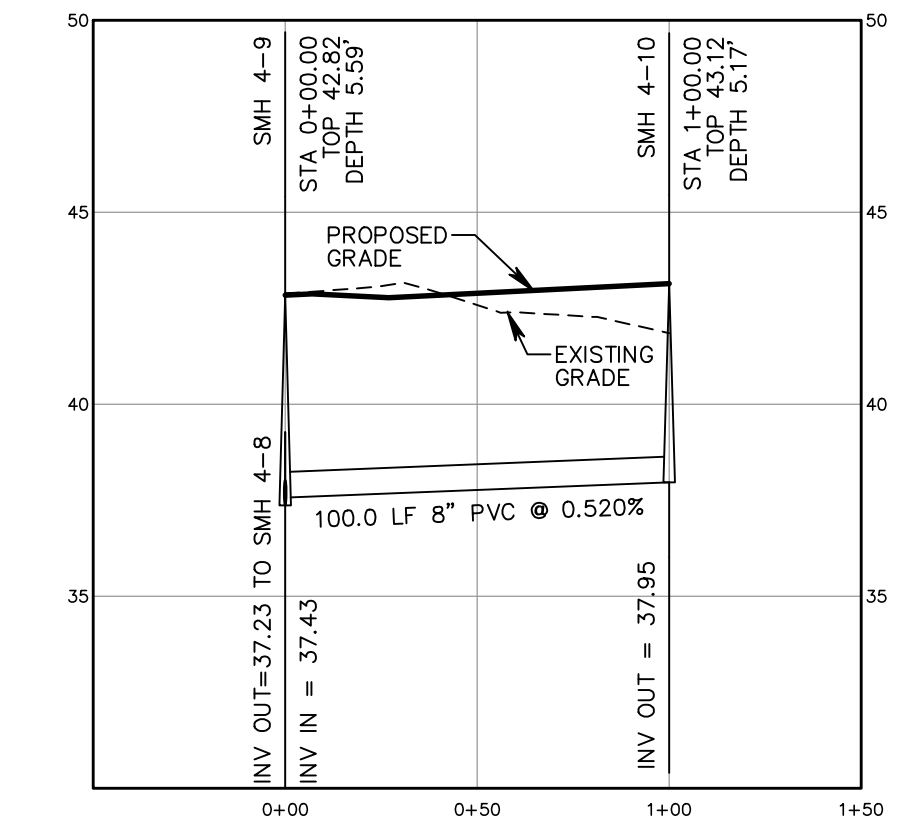
**ROAD B PLAN & PROFILE  
GENERAL DEVELOPMENT PLANS  
BRIDGEVILLE TOWN CENTER  
TOWN OF BRIDGEVILLE  
SUSSEX COUNTY, DELAWARE**

REVISIONS	DATE
DATE: 2022-09-26	
DRAWN BY: CMK	CHECKED: AHJ
FILE: 4270BD2.pro	
PROJECT NO.: 4270	

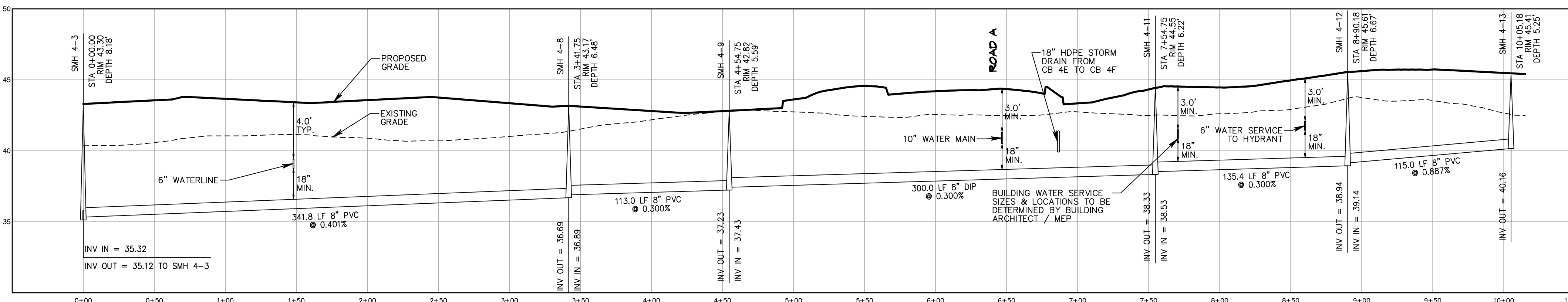
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**CU4**



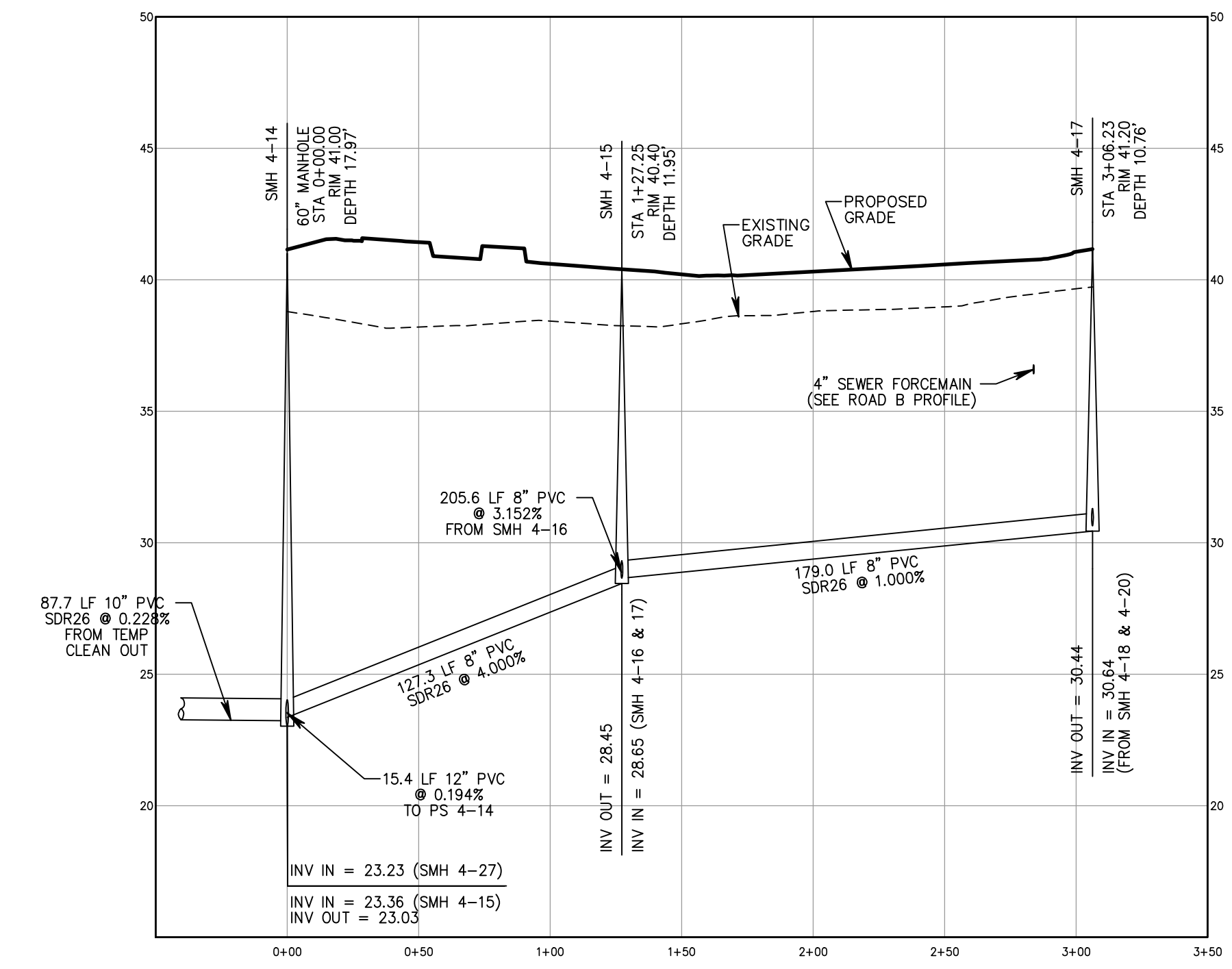
**SANITARY SEWER PROFILE FROM SMH 4-1 TO SMH 4-7**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'



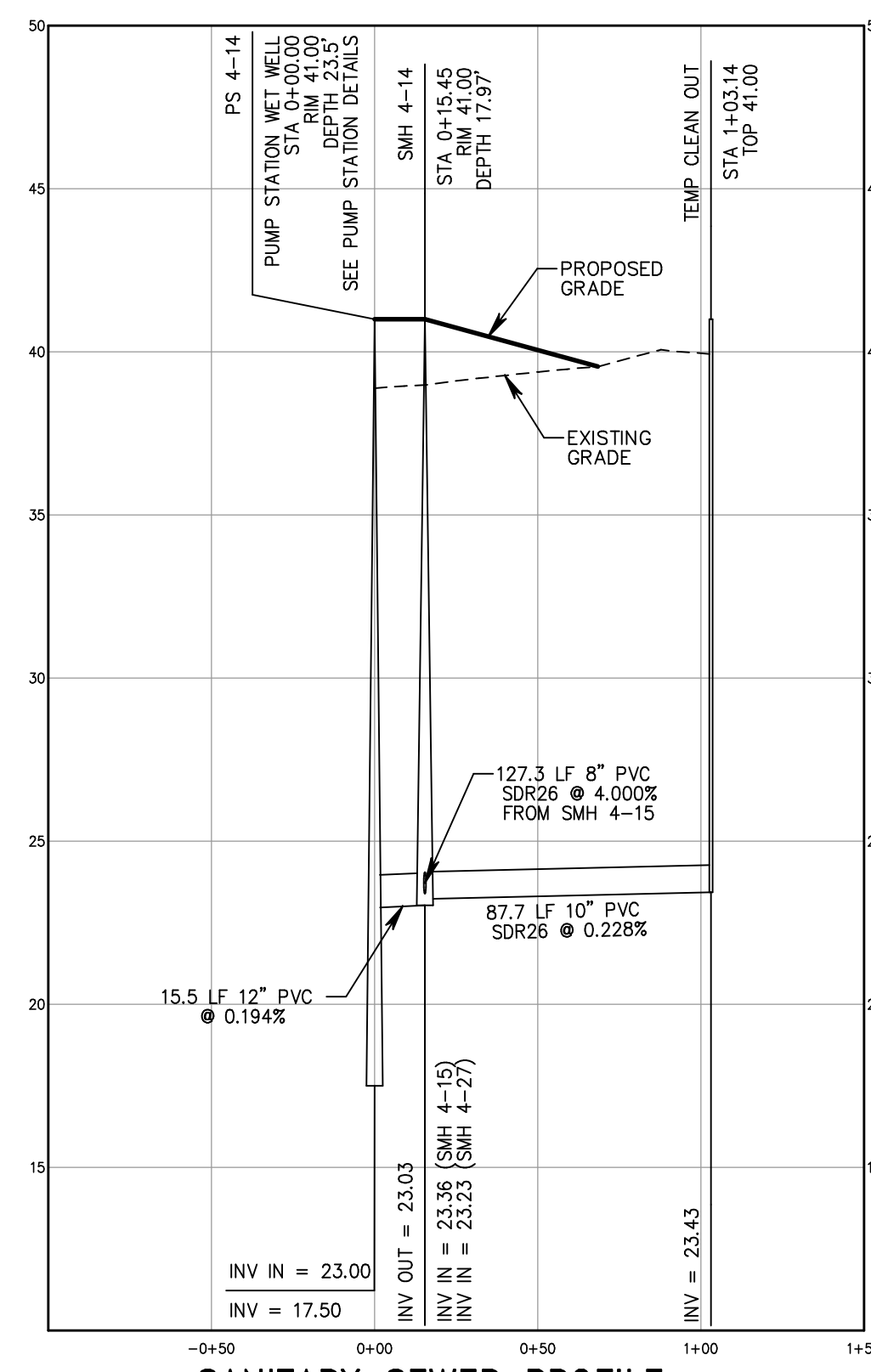
**SANITARY SEWER PROFILE FROM SMH 4-9 TO SMH 4-10**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'



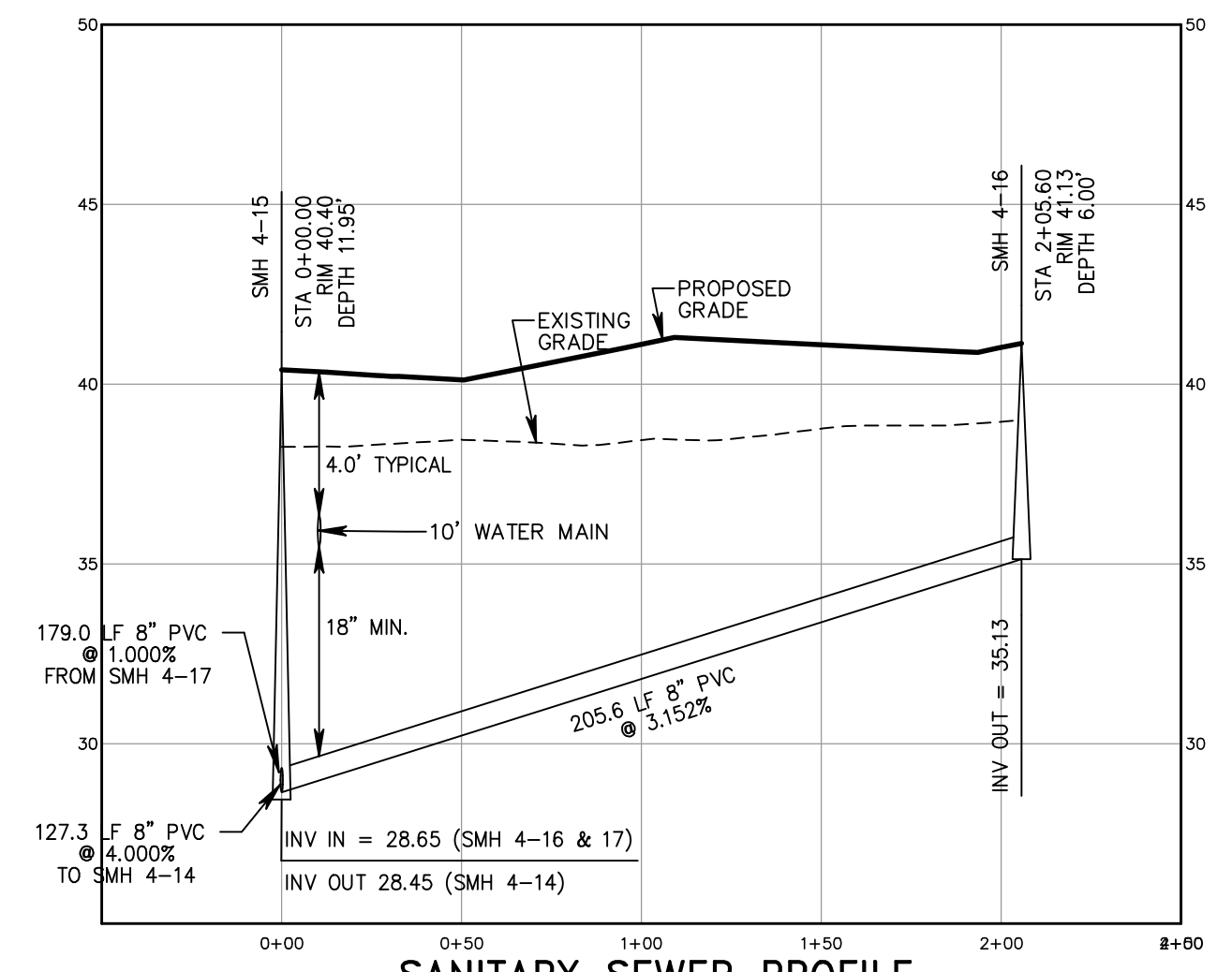
**SANITARY SEWER PROFILE FROM SMH 4-3 TO SMH 4-13**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'



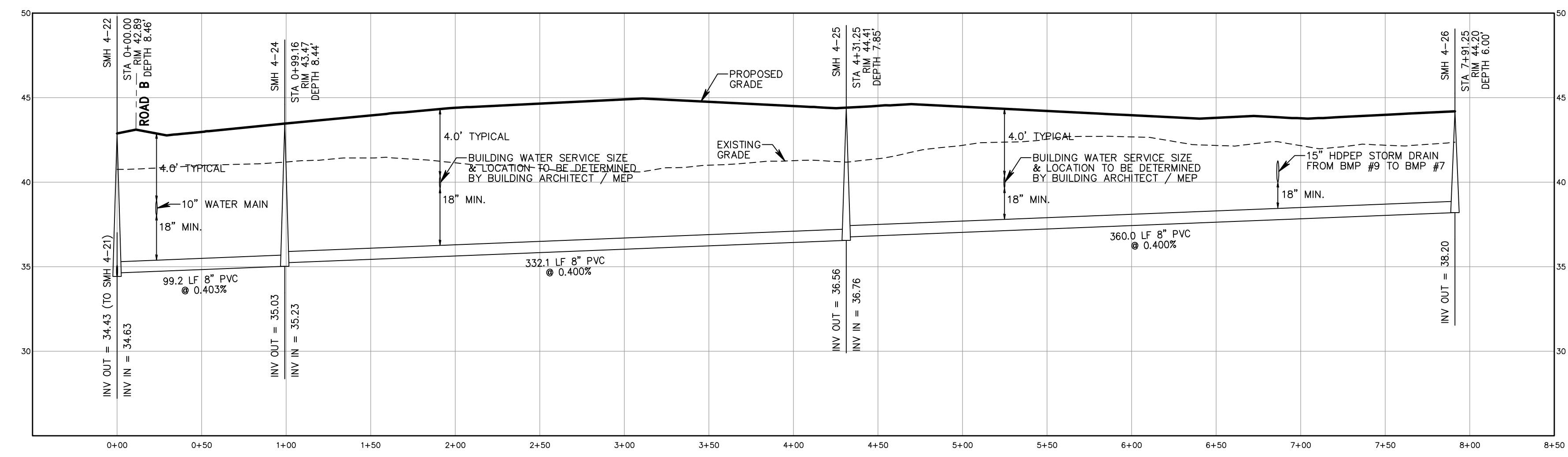
**SANITARY SEWER PROFILE FROM SMH 4-14 TO SMH 4-17**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'



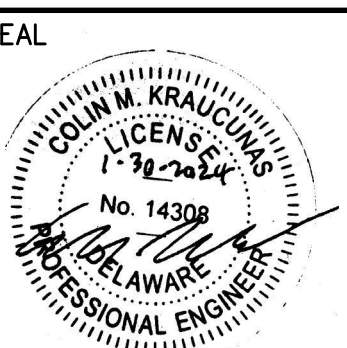
**SANITARY SEWER PROFILE FROM PS 4-14 TO SMH 4-27**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'



**SANITARY SEWER PROFILE FROM SMH 4-15 TO SMH 4-16**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'

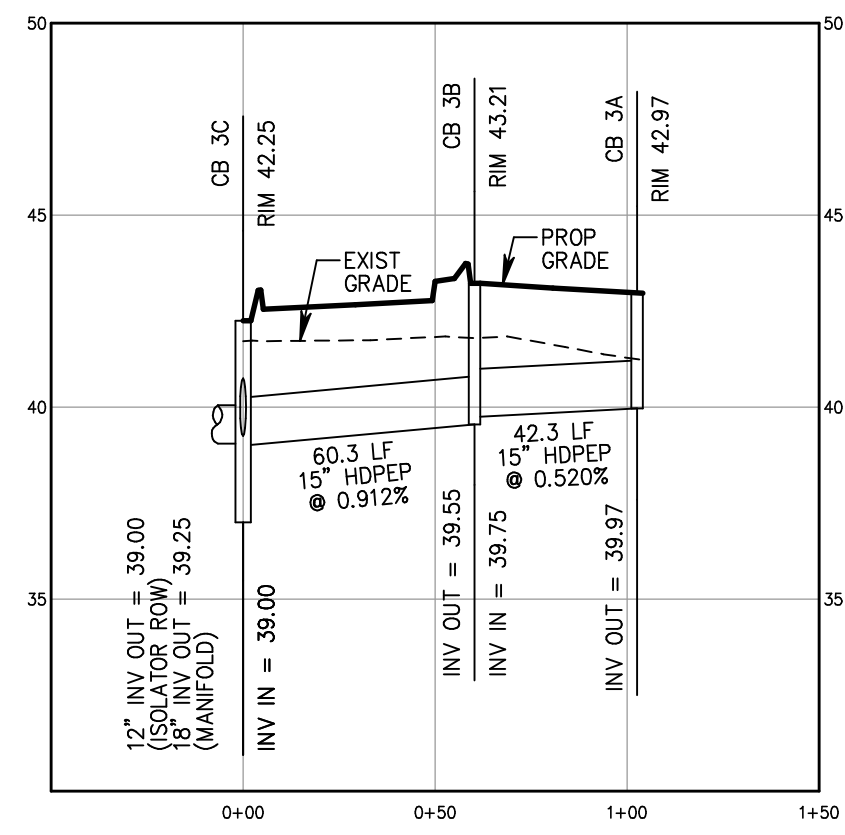


**SANITARY SEWER PROFILE FROM SMH 4-22 TO SMH 4-26**  
SCALE: HORIZ: 1"=50'; VERT: 1"=5'

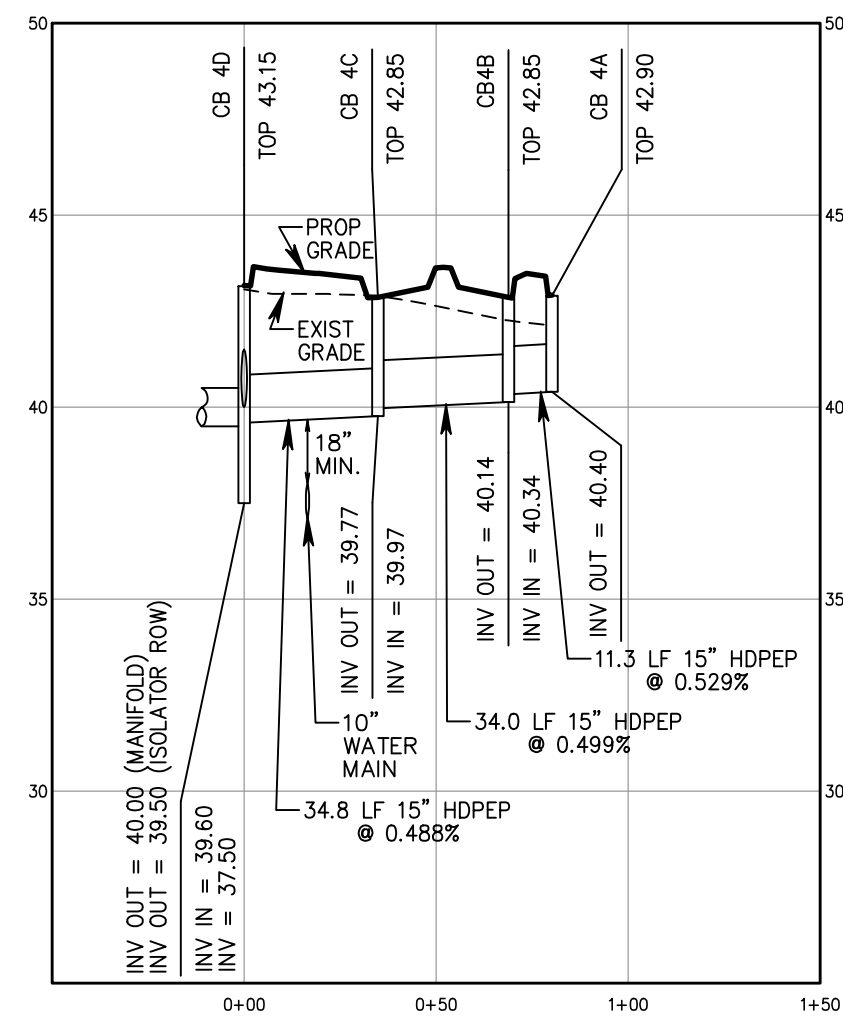


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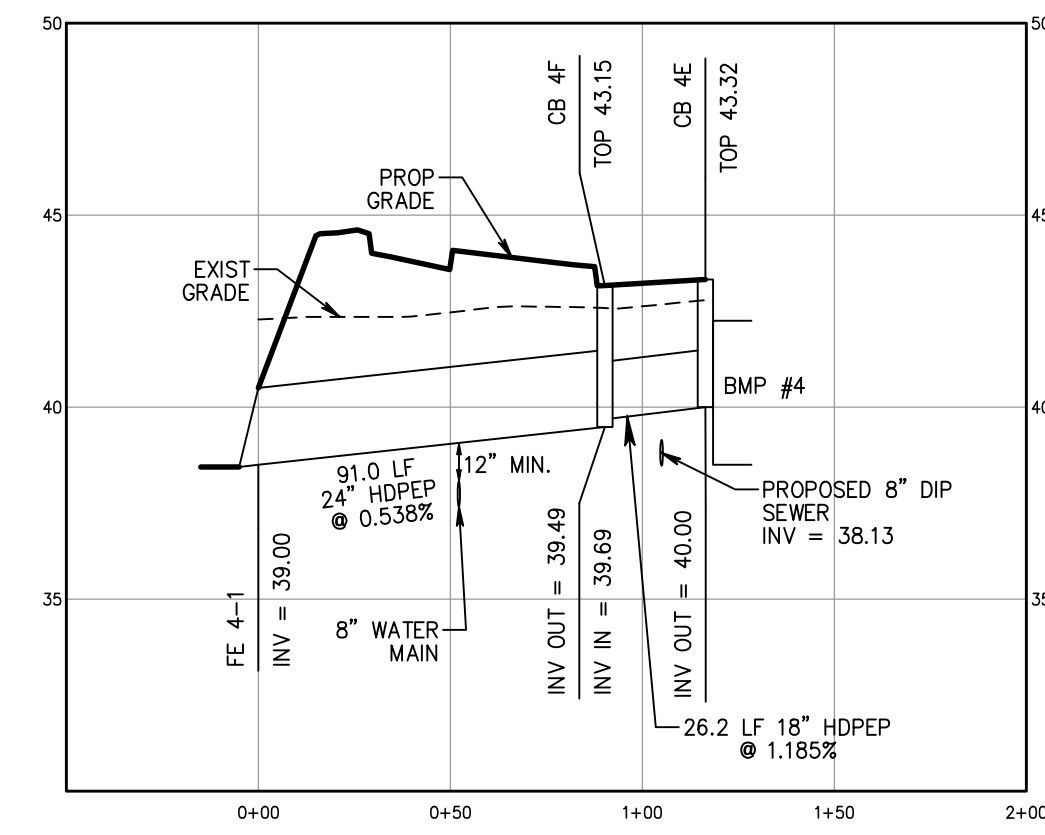
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SCE COMMENTS	A.J.H 11-28-23
SCE COMMENTS	A.J.H 10-31-23
SCD/SCE COMMENTS	CMK 8-7-23
AGENCY COMMENTS	A.J.H 5-18-23
REVISIONS	DATE
DATE	9-26-22
DRAWN BY: CMK	CHECKED: A.J.H
FILE:	4270BD2.pro
PROJECT NO.:	4270



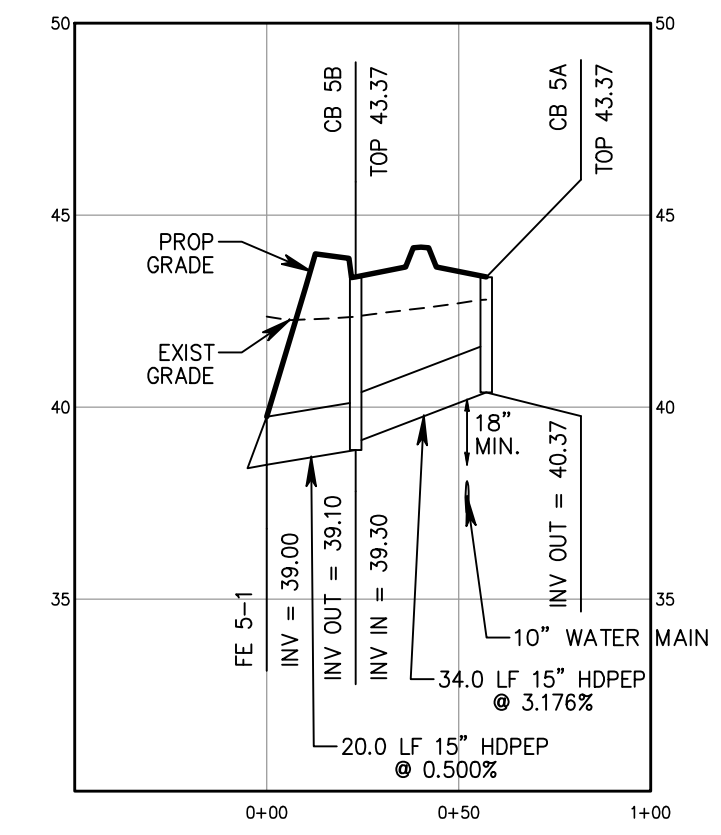
STORM SEWER PROFILE FROM CB 3A TO 3C  
SCALE: 1"=50' H, 1"=5' V



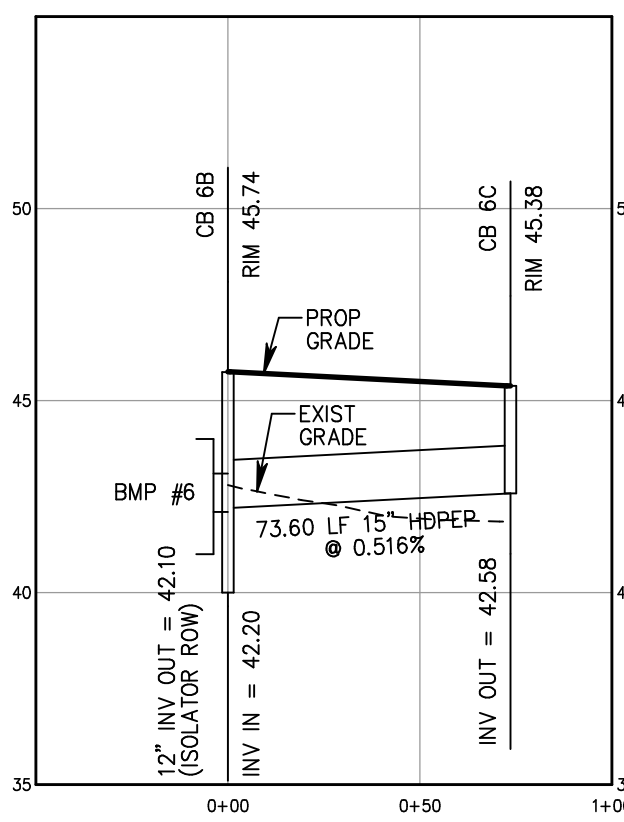
STORM SEWER PROFILE FROM CB 4A TO 4D  
SCALE: 1"=50' H, 1"=5' V



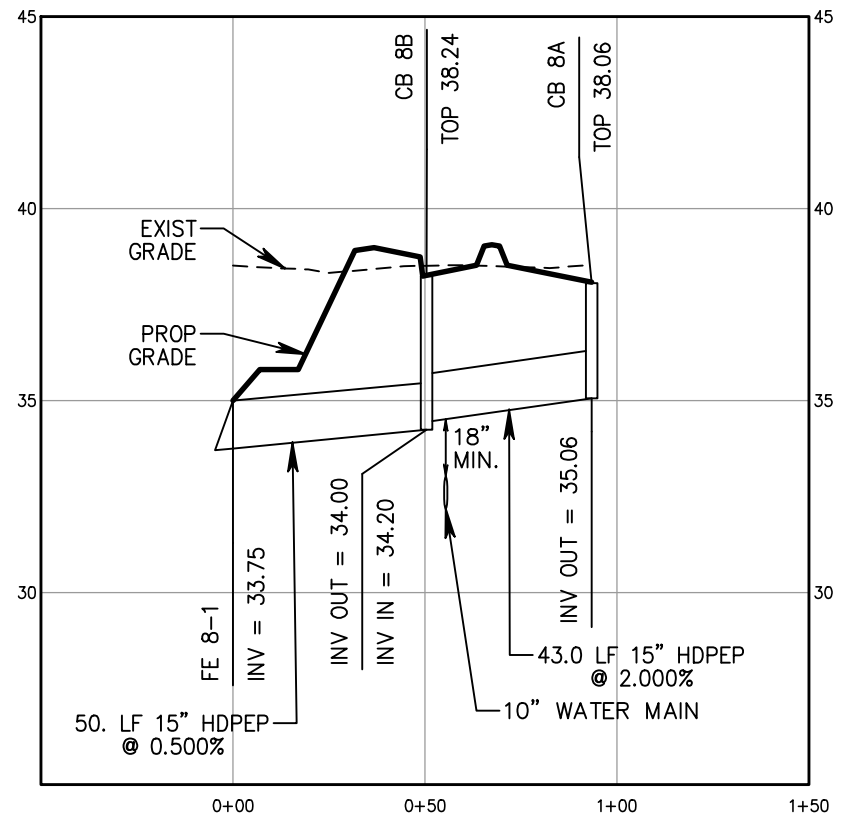
STORM SEWER PROFILE FROM CB 4E TO FE 4-1  
SCALE: 1"=50' H, 1"=5' V



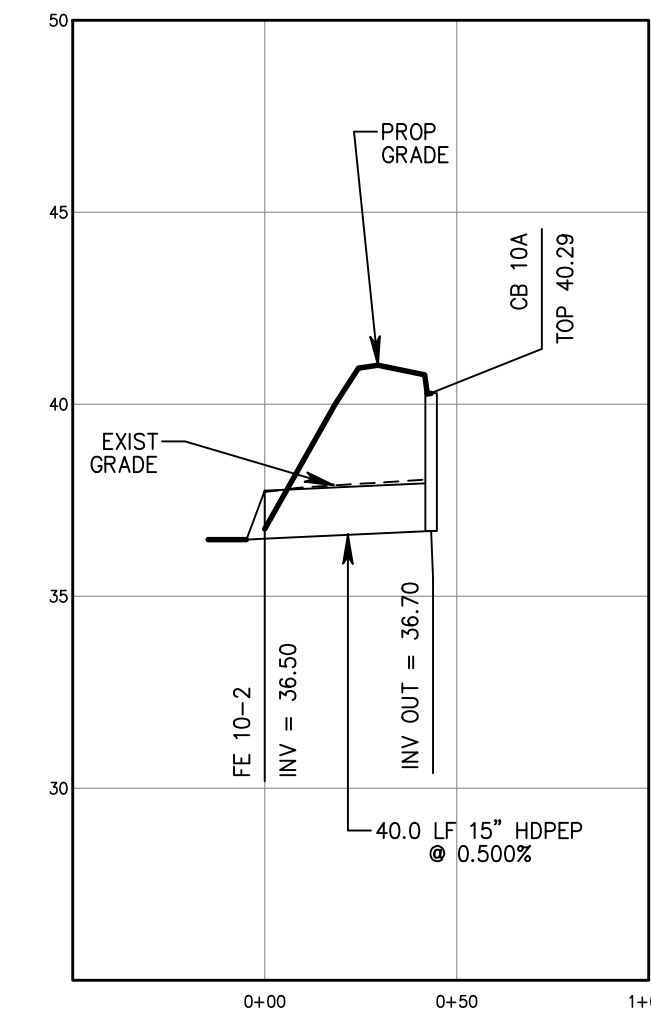
STORM SEWER PROFILE FROM CB 5A TO FE 5-1  
SCALE: 1"=50' H, 1"=5' V



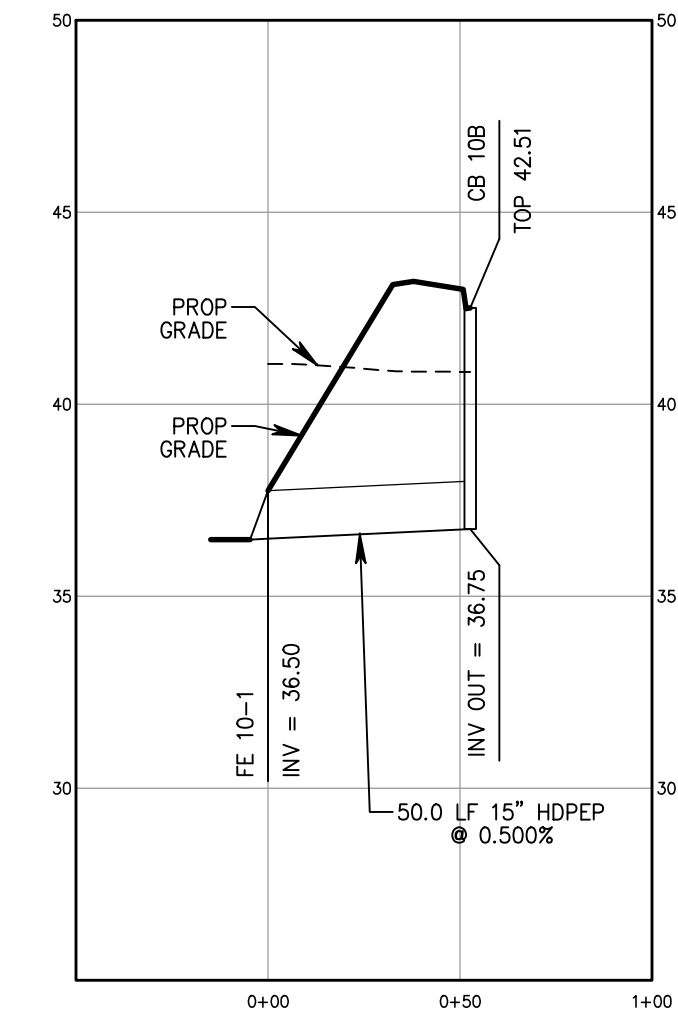
STORM SEWER PROFILE FROM CB 6B TO 6C  
SCALE: 1"=50' H, 1"=5' V



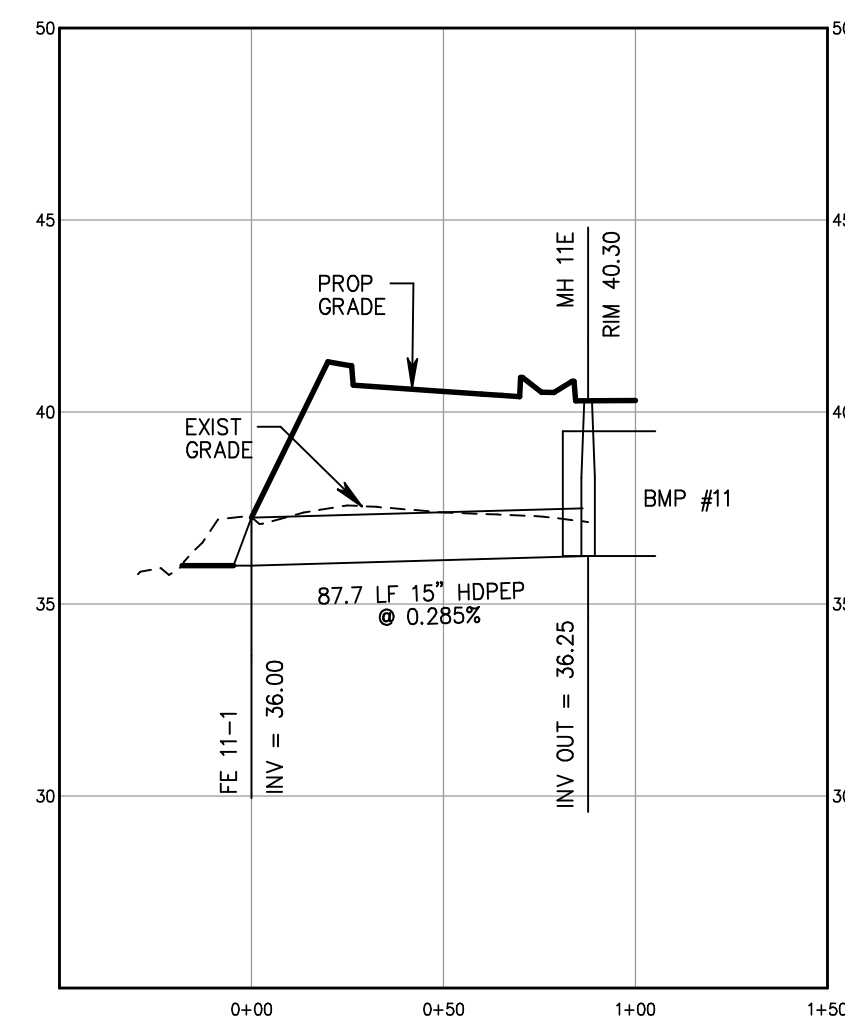
STORM SEWER PROFILE FROM CB 8A TO FE 8-1  
SCALE: 1"=50' H, 1"=5' V



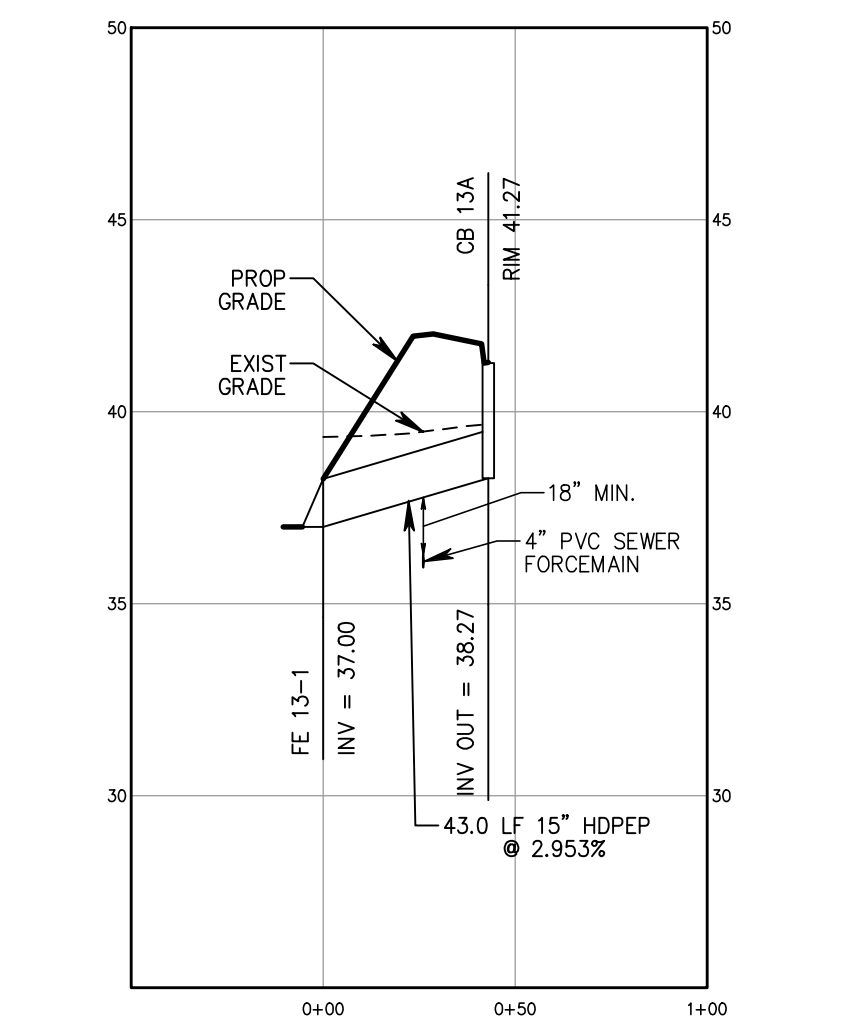
STORM SEWER PROFILE FROM CB 10A TO FE 10-2  
SCALE: 1"=50' H, 1"=5' V



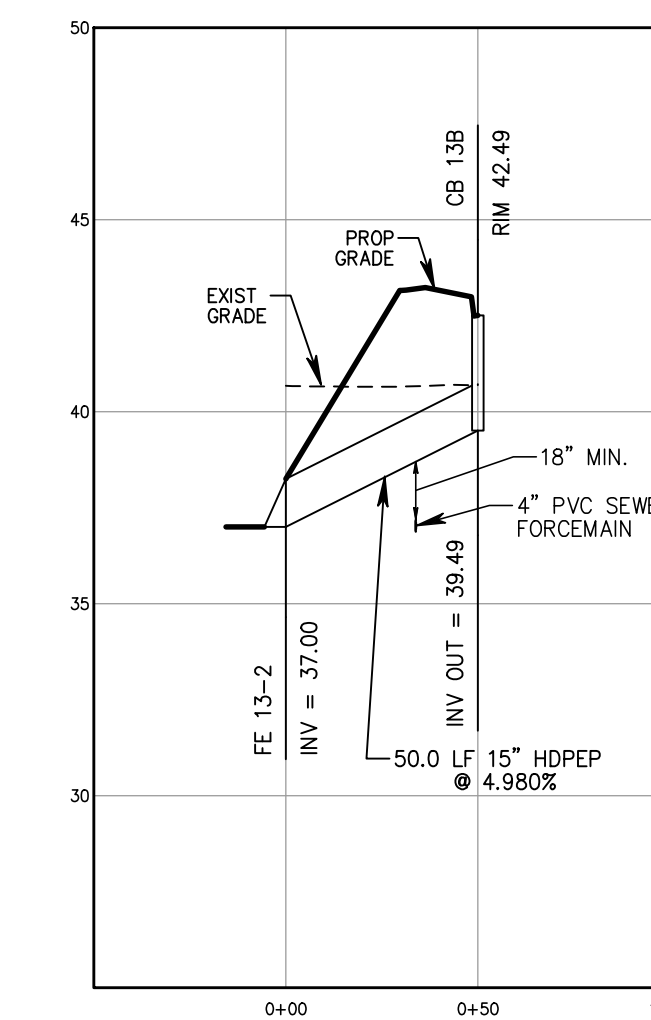
STORM SEWER PROFILE FROM CB 10B TO FE 10-1  
SCALE: 1"=50' H, 1"=5' V



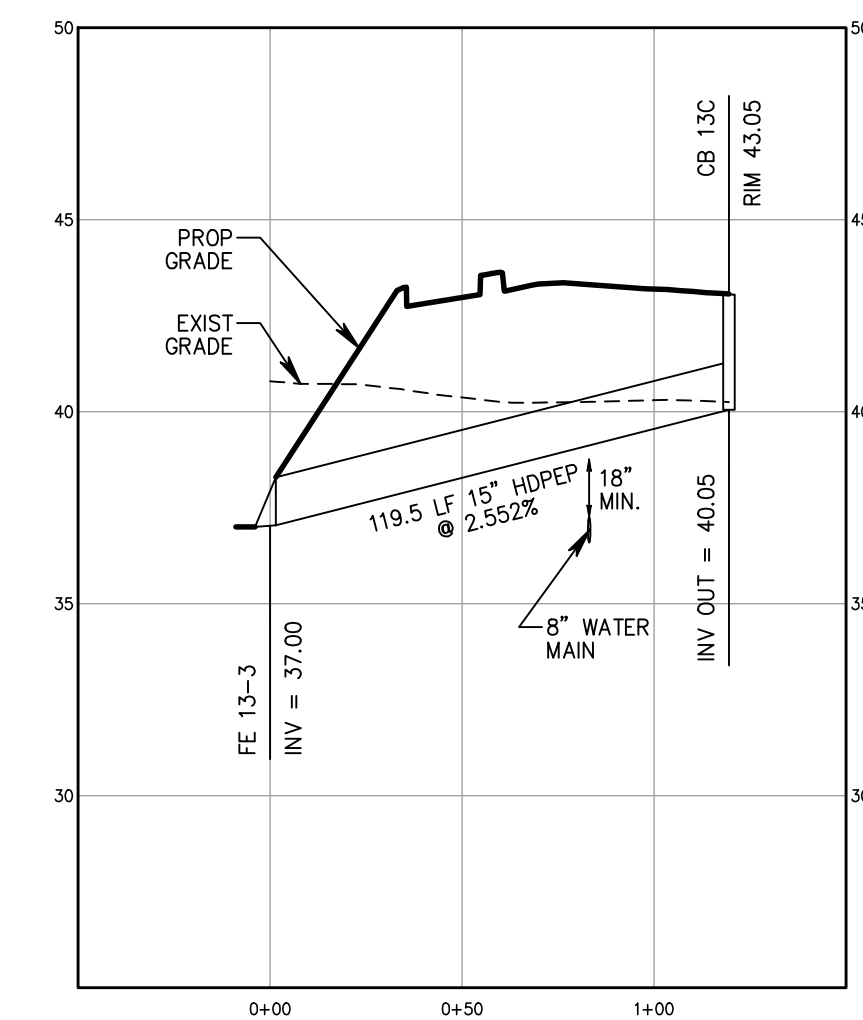
STORM SEWER PROFILE FROM MH 11E TO FE 11-1  
SCALE: 1"=50' H, 1"=5' V



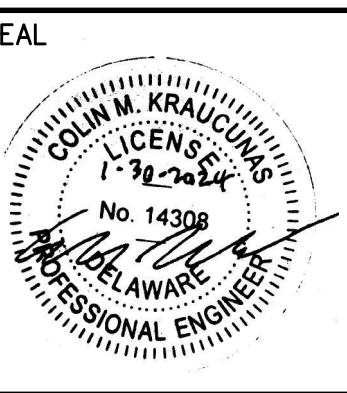
STORM SEWER PROFILE FROM CB 13A TO FE 13-1  
SCALE: 1"=50' H, 1"=5' V



STORM SEWER PROFILE FROM CB 13B TO FE 13-2  
SCALE: 1"=50' H, 1"=5' V



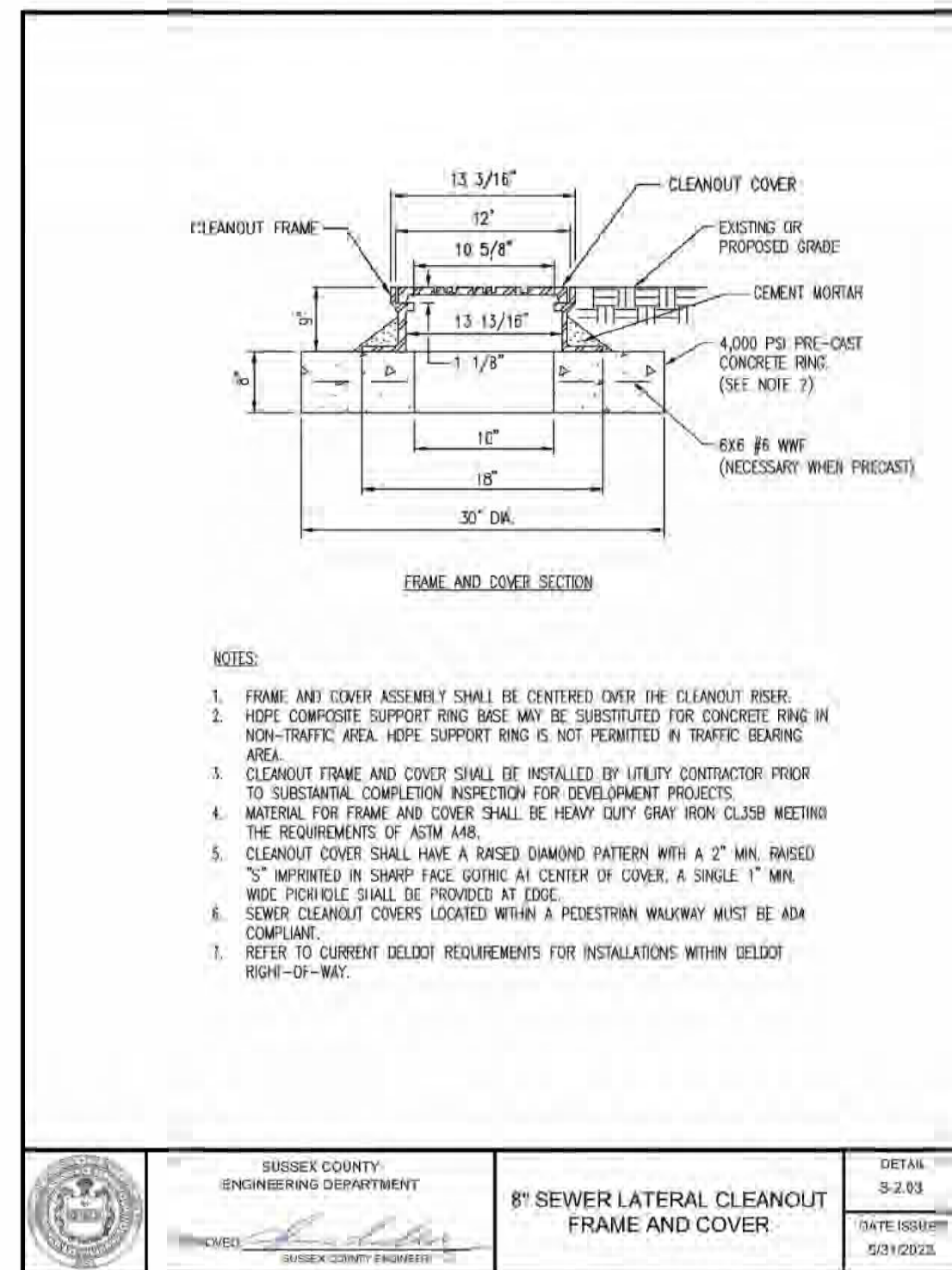
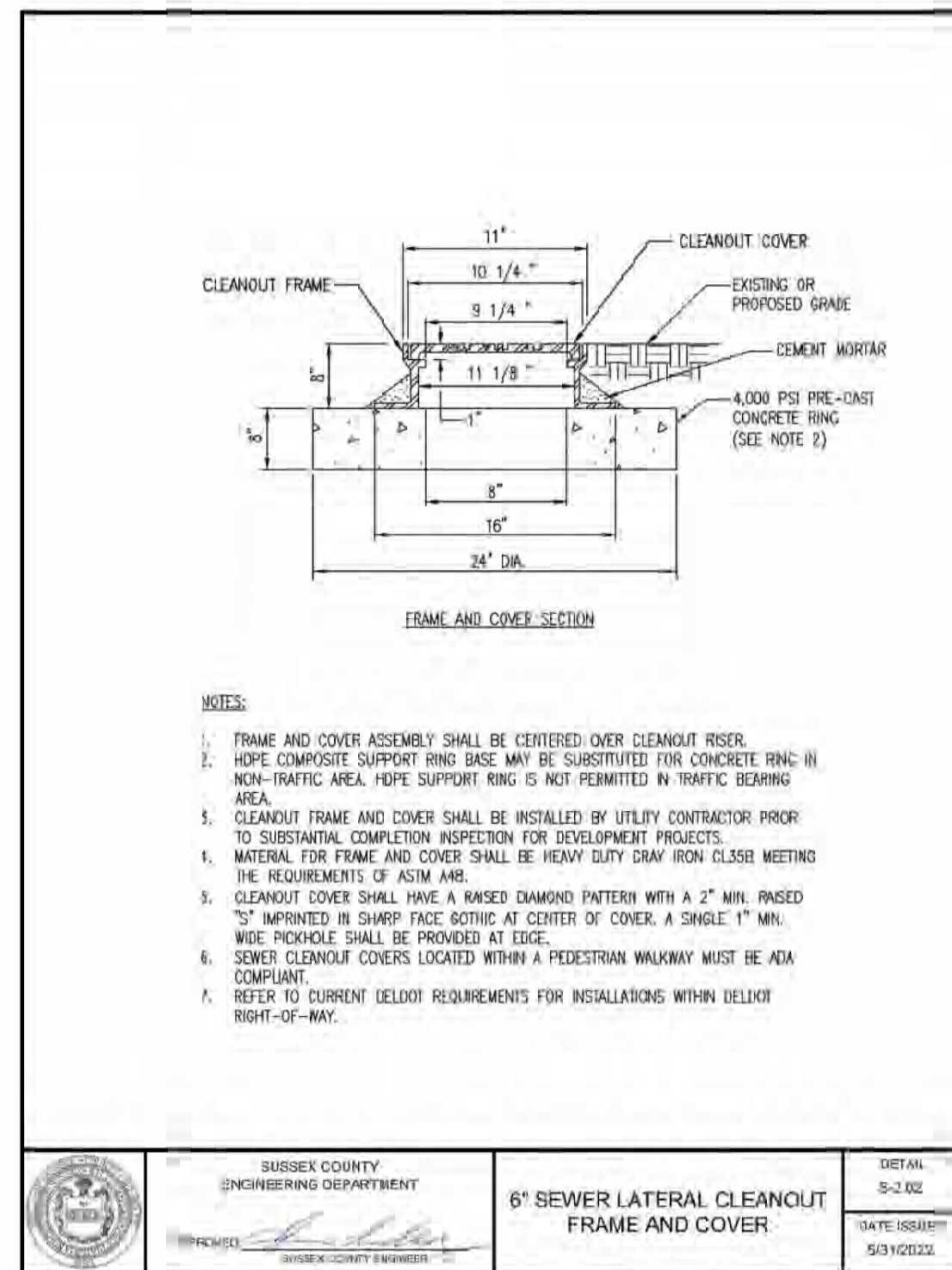
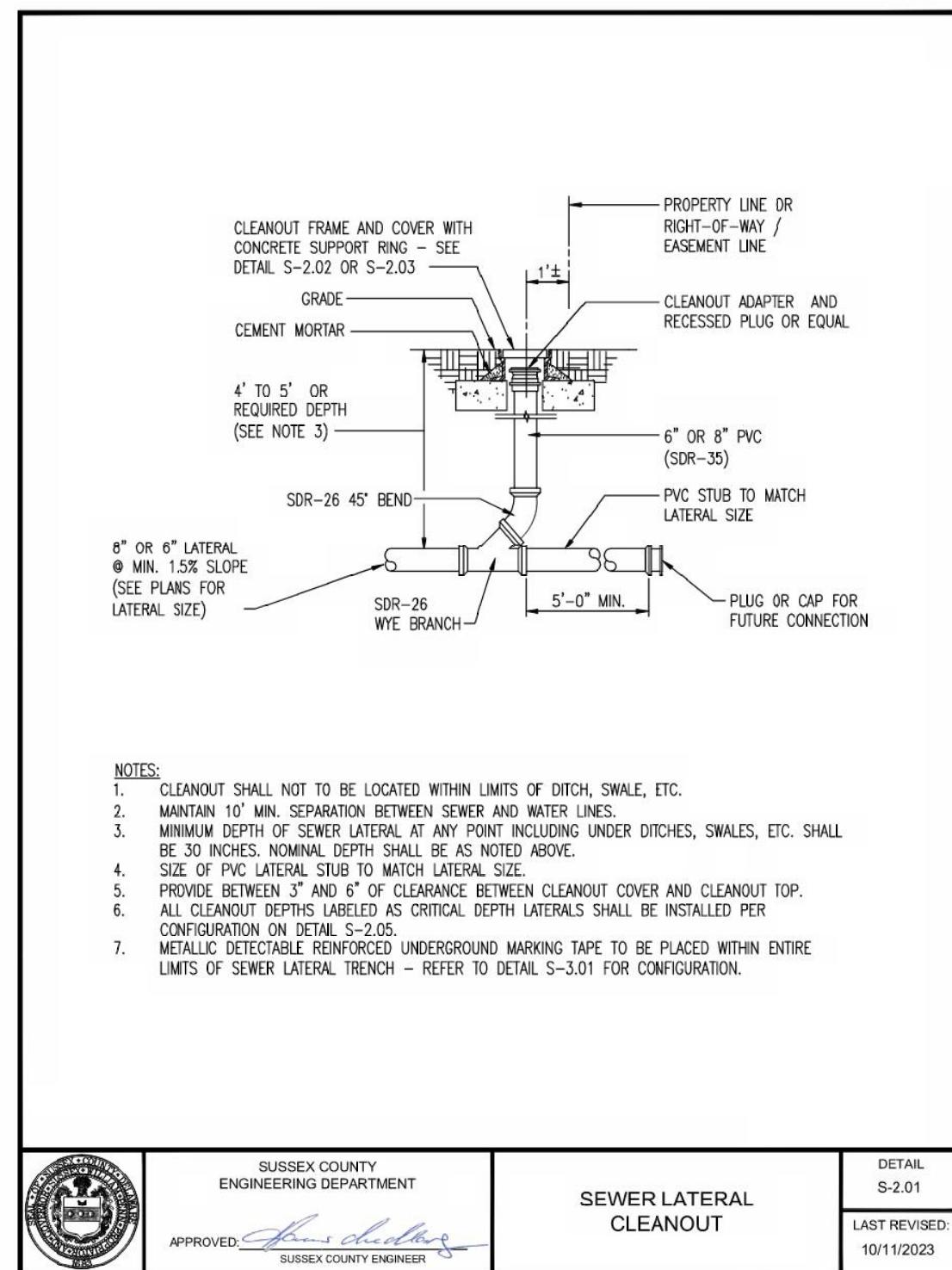
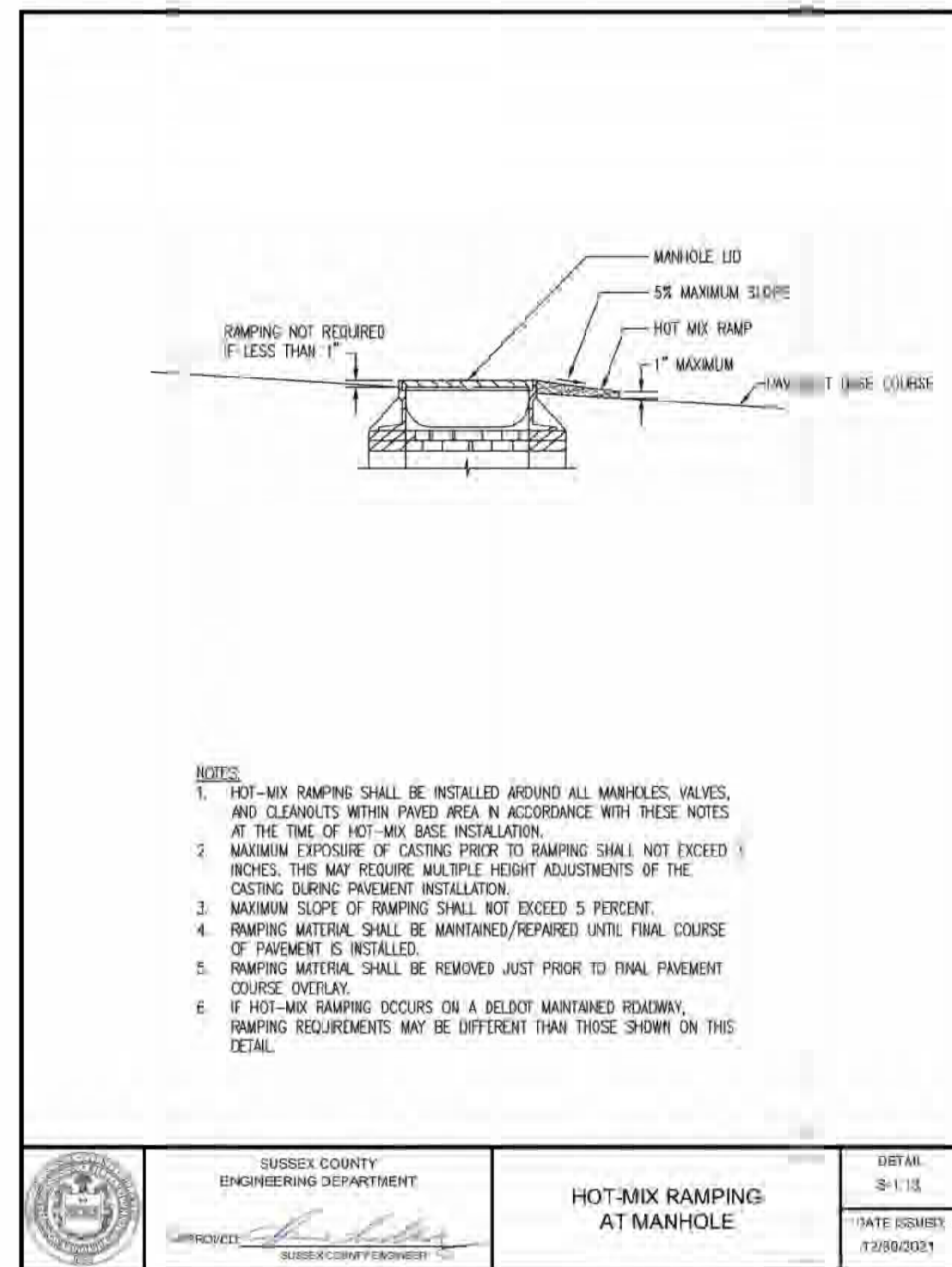
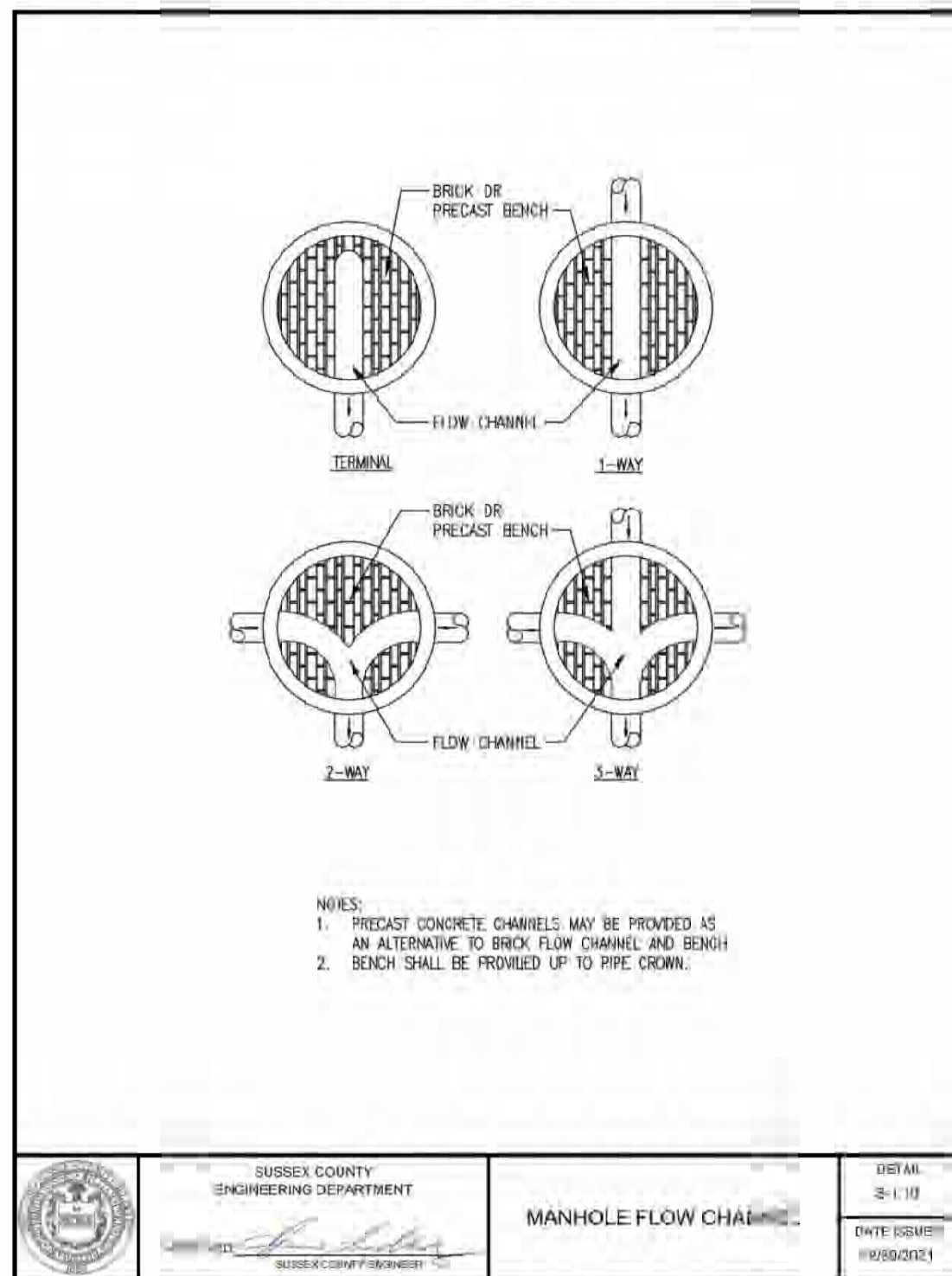
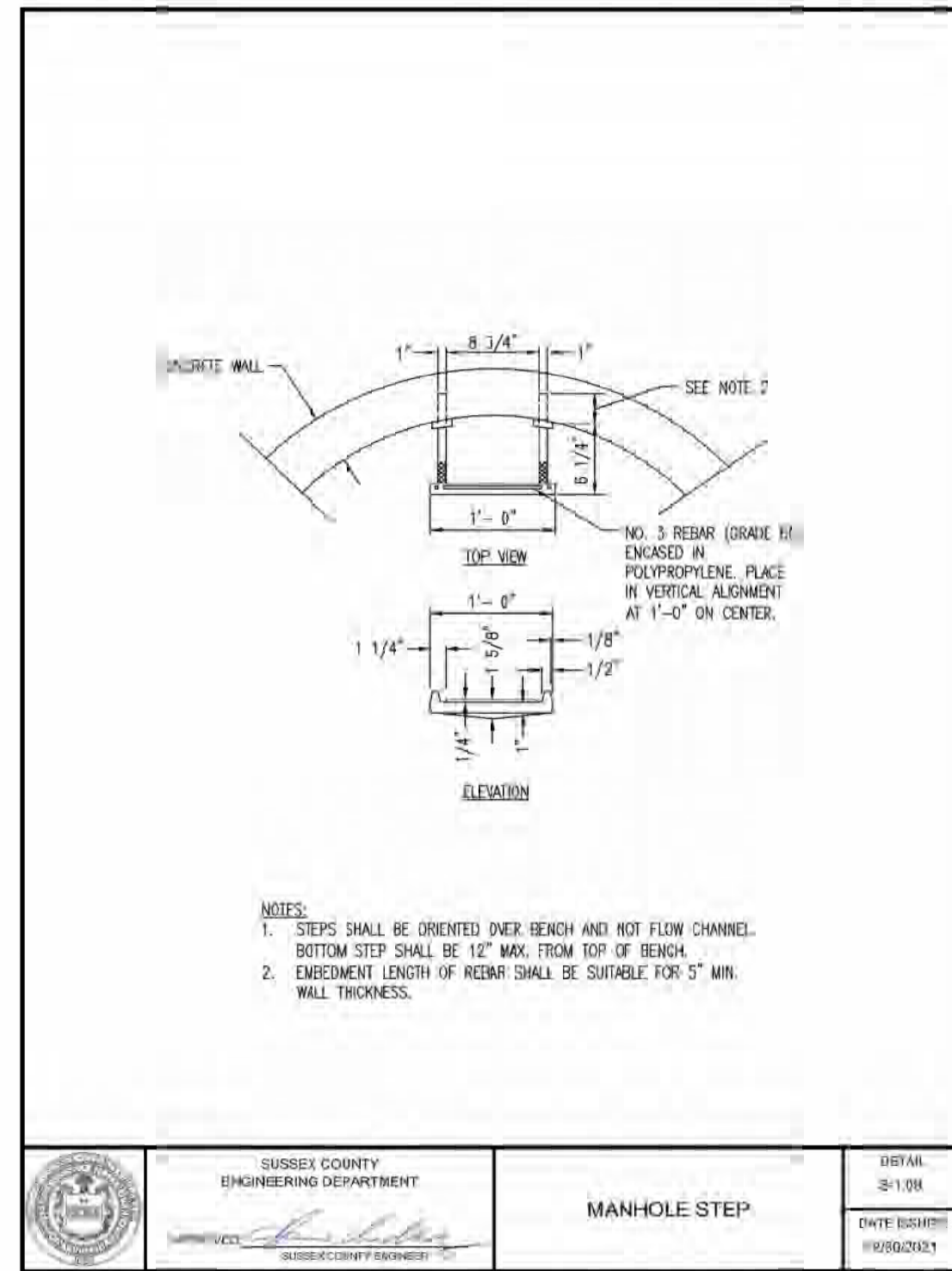
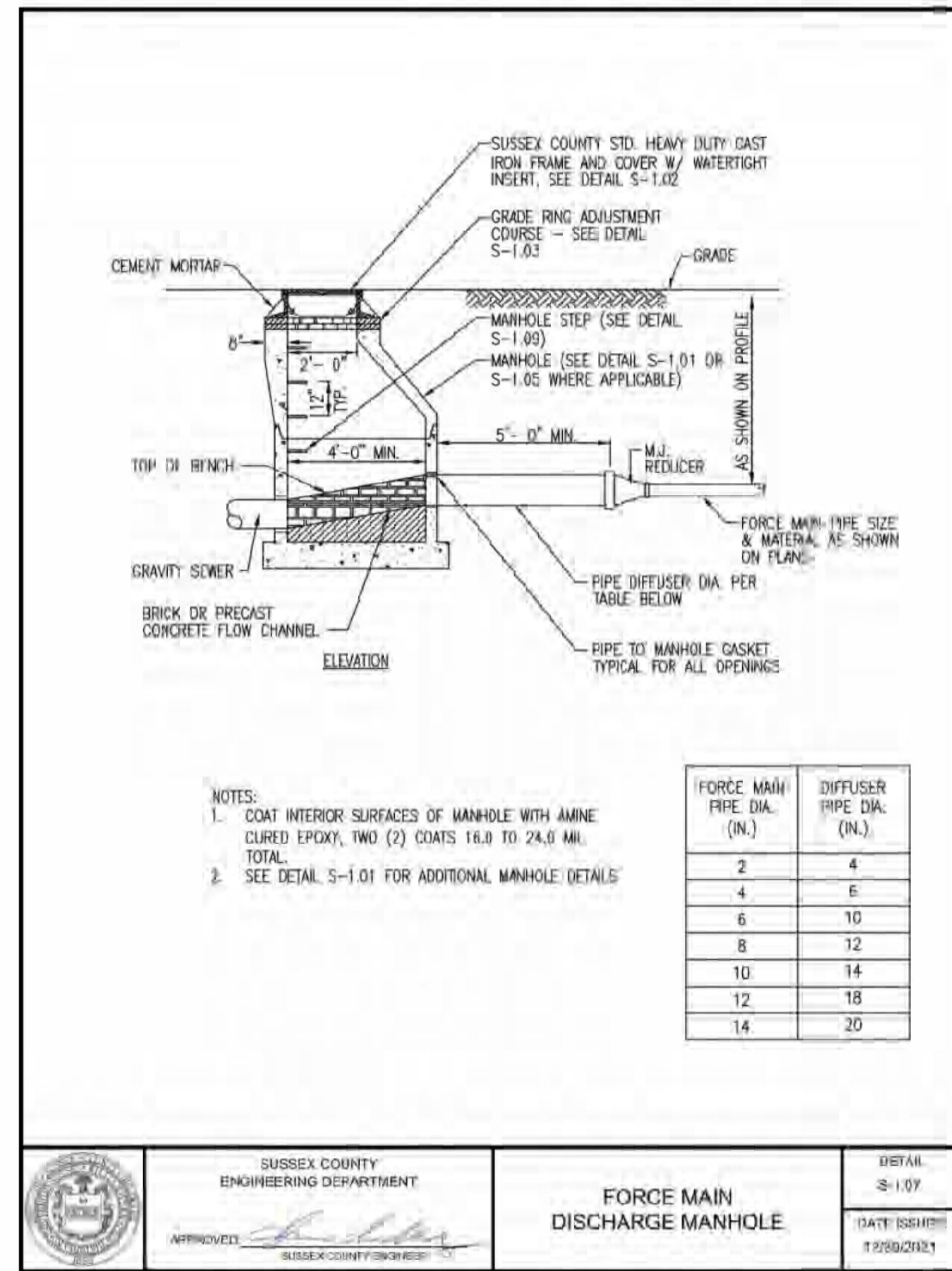
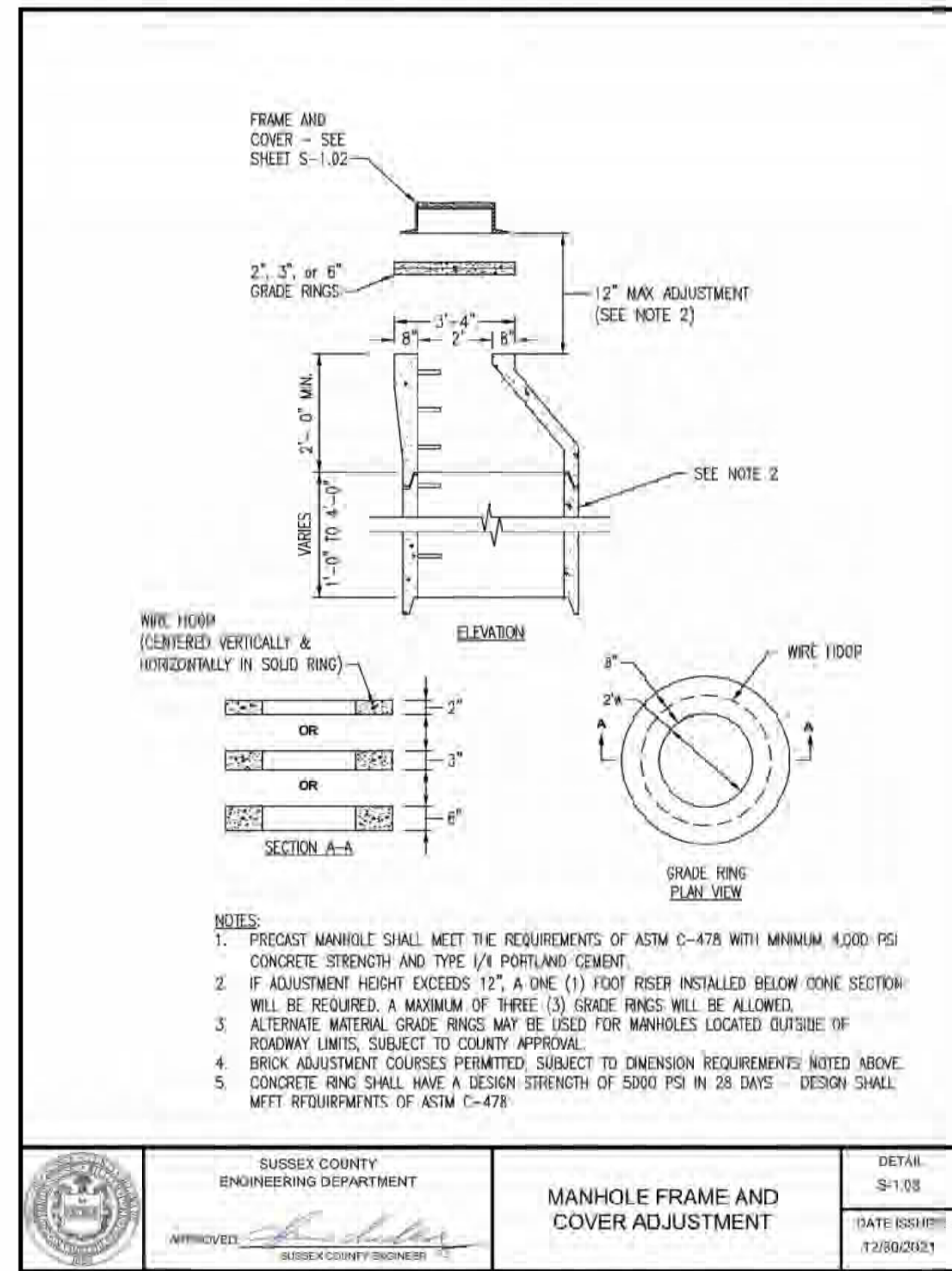
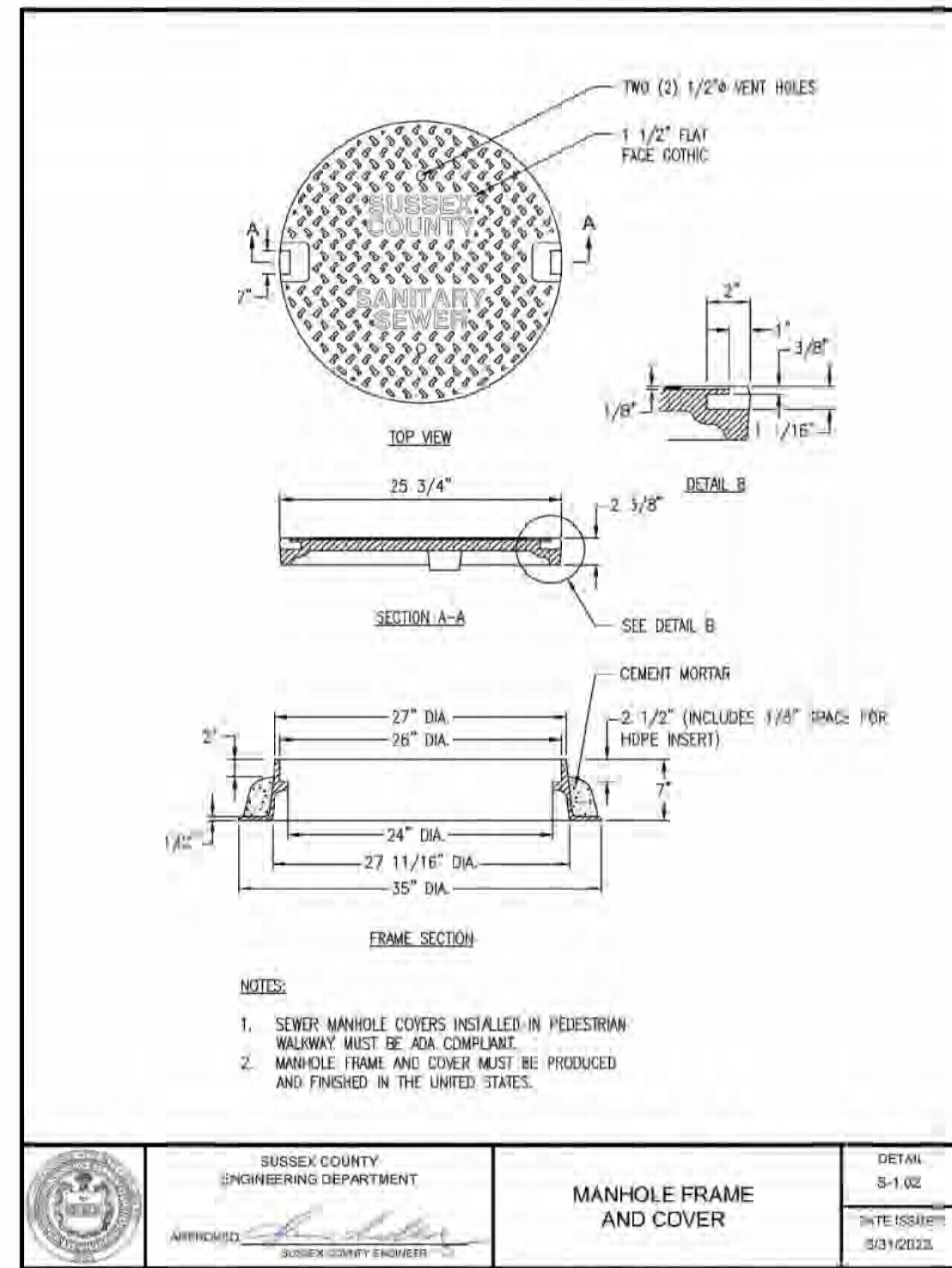
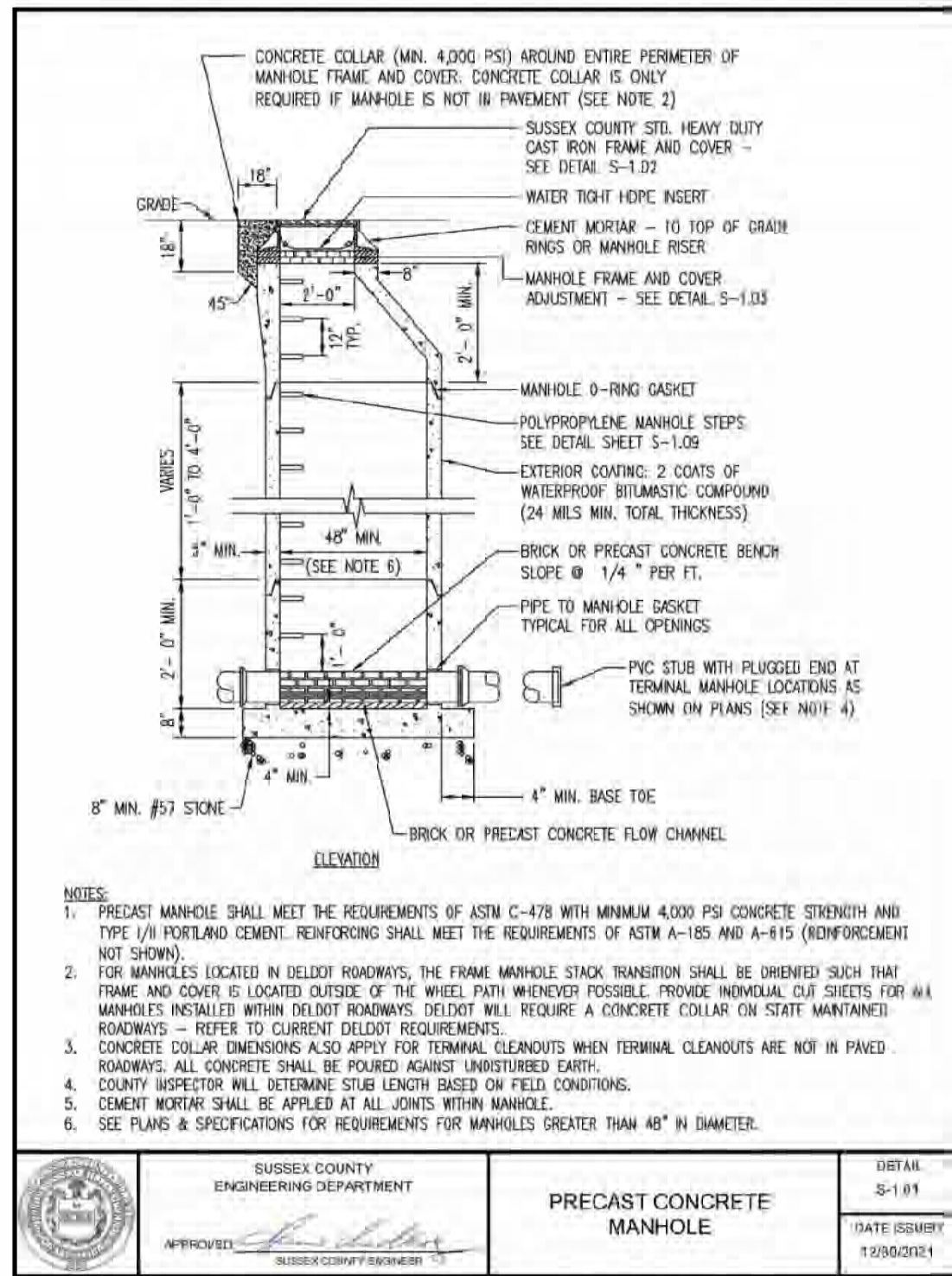
STORM SEWER PROFILE FROM CB 13C TO FE 13-3  
SCALE: 1"=50' H, 1"=5' V



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STORM DRAIN OFF-ROAD PROFILES  
GENERAL DEVELOPMENT PLANS  
BRIDGEVILLE TOWN CENTER  
TOWN OF BRIDGEVILLE  
SUSSEX COUNTY, DELAWARE

SCS COMMENTS	AJH 11-28-23
NONE THIS SHEET	10-31-23
SCD/SCS COMMENTS	CMK 8-7-23
AGENCY COMMENTS	AJH 5-18-23
REVISIONS	DATE
DATE:	9-26-22
DRAWN BY: CMK	CHECKED: AJH
FILE:	4270BD2.pro
PROJECT NO.:	4270



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SCALE: AS NOTED

DETAIL S-1-01  
DATE ISSUED: 1/28/2021

DETAIL S-1-02  
DATE ISSUED: 5/31/2022

DETAIL S-1-03  
DATE ISSUED: 1/28/2021

DETAIL S-1-07  
DATE ISSUED: 1/28/2021

DETAIL S-1-08  
DATE ISSUED: 1/28/2021

DETAIL S-1-10  
DATE ISSUED: 1/28/2021

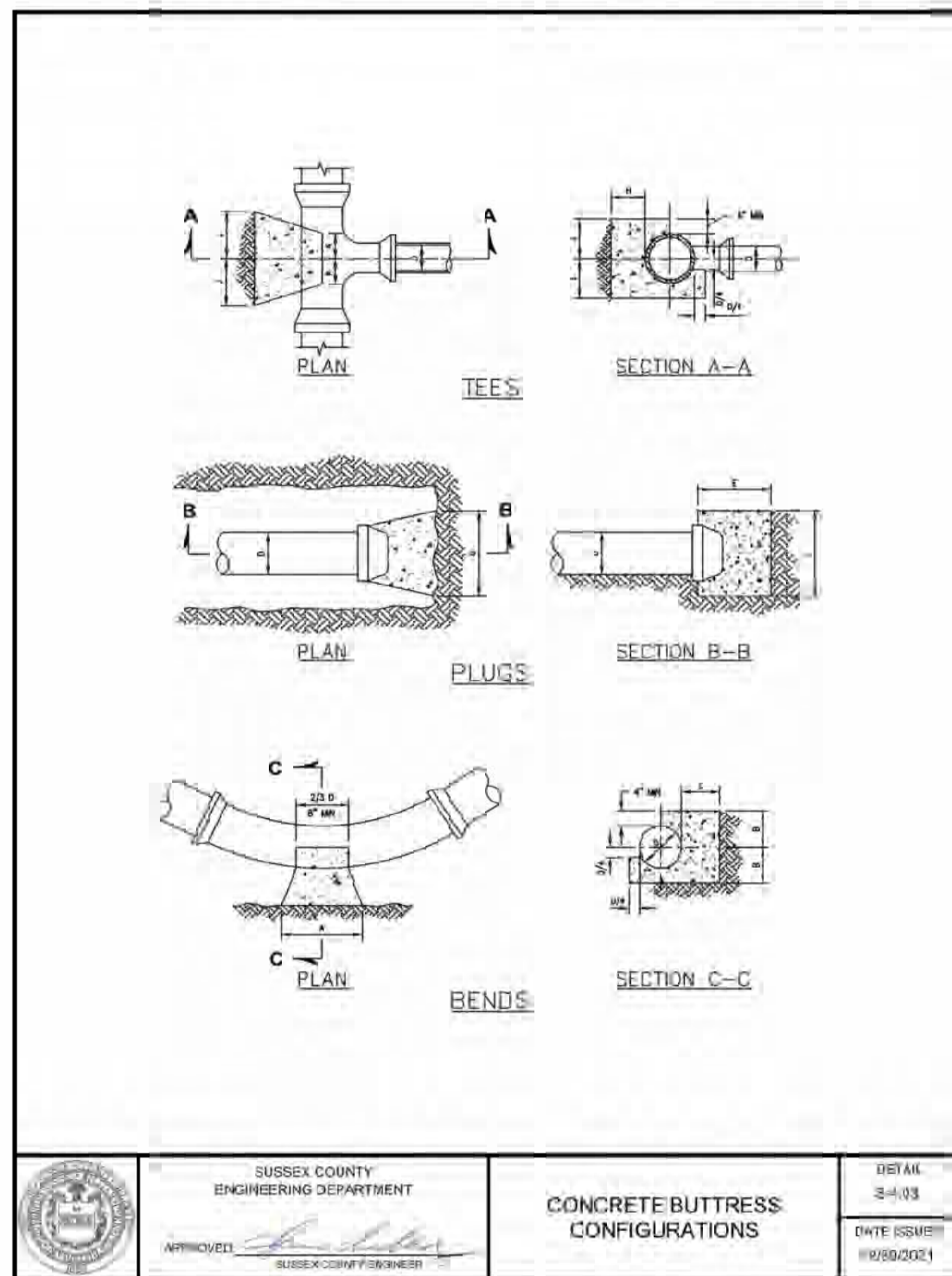
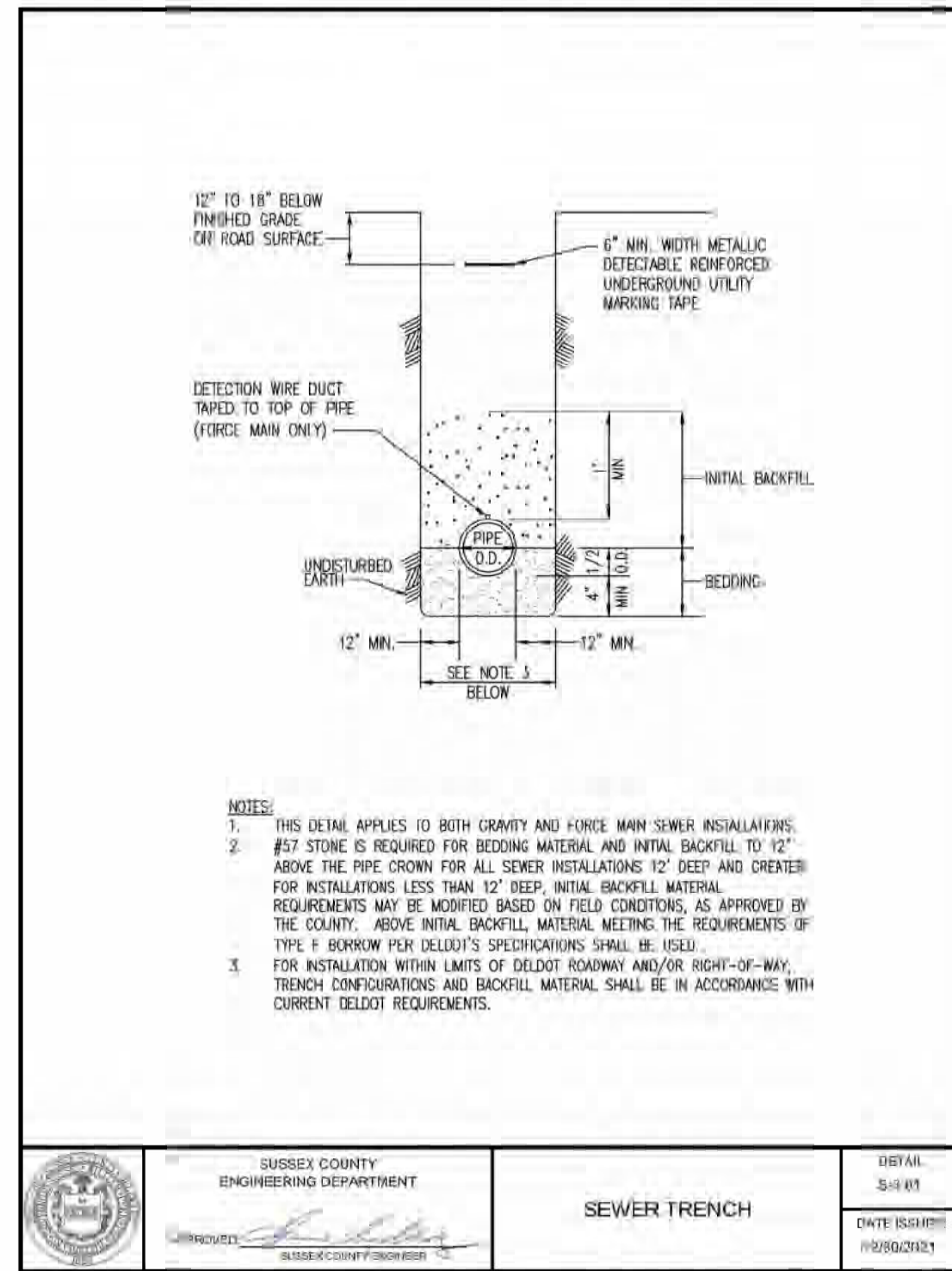
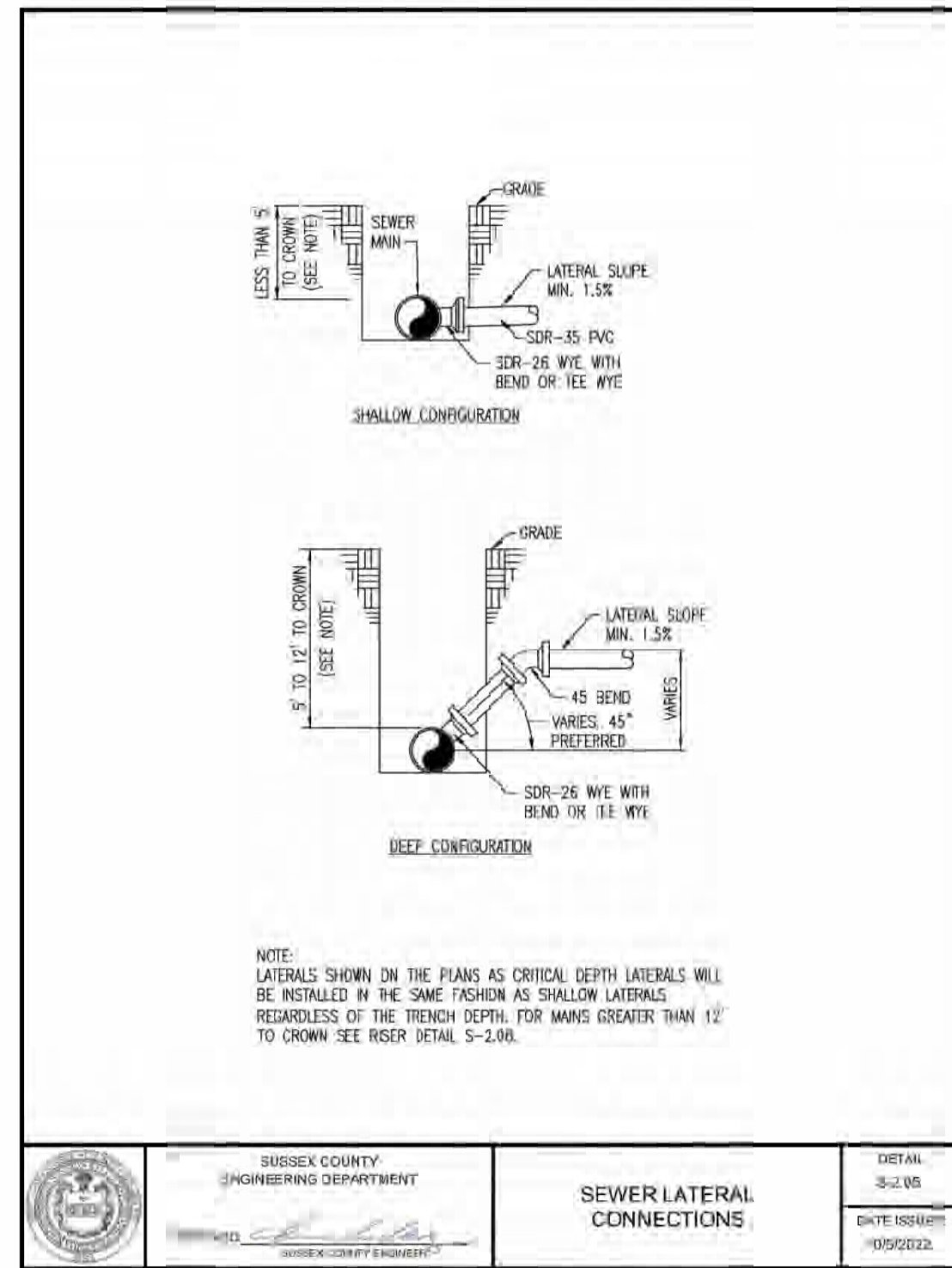
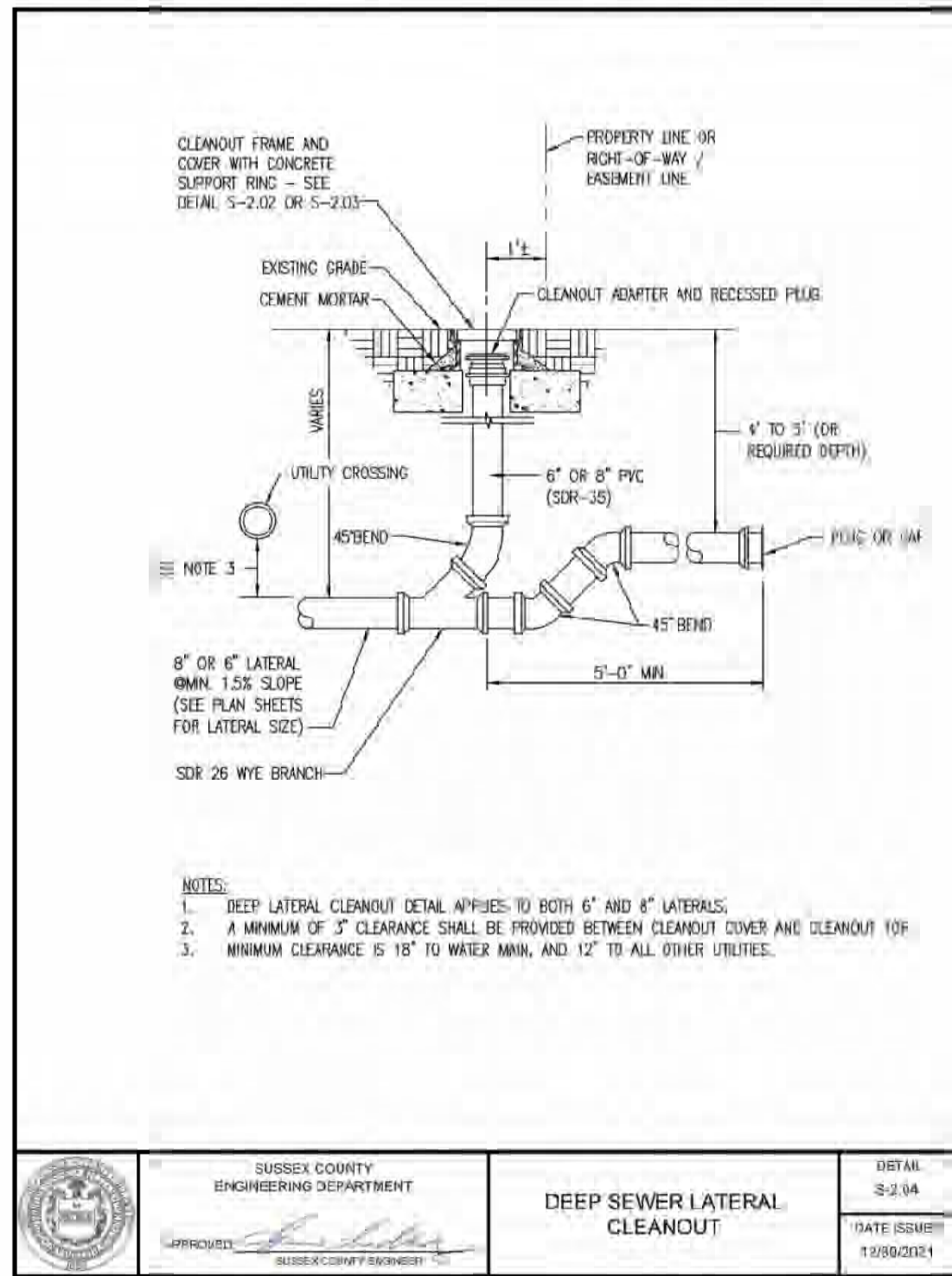
DETAIL S-1-11  
DATE ISSUED: 1/28/2021

DETAIL S-2-01  
LAST REVISED: 10/11/2023

DETAIL S-2-02  
DATE ISSUED: 5/31/2022

DETAIL S-2-03  
DATE ISSUED: 5/31/2022

DETAIL S-2-01	AJH 11-28-23
NONE THIS SHEET	10-31-23
NO CHANGES	CMK 8-7-23
AGENCY COMMENTS	CMK 5-18-23
N/A	HAJ 12-20-22
REVISIONS	DATE
DATE:	9-26-22
DRAWN BY: CMK	CHECKED: AJH
FILE:	4270DE1.pro
PROJECT NO.:	4270



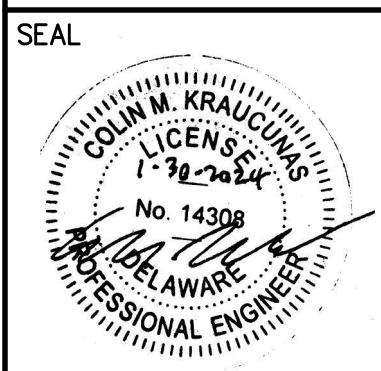
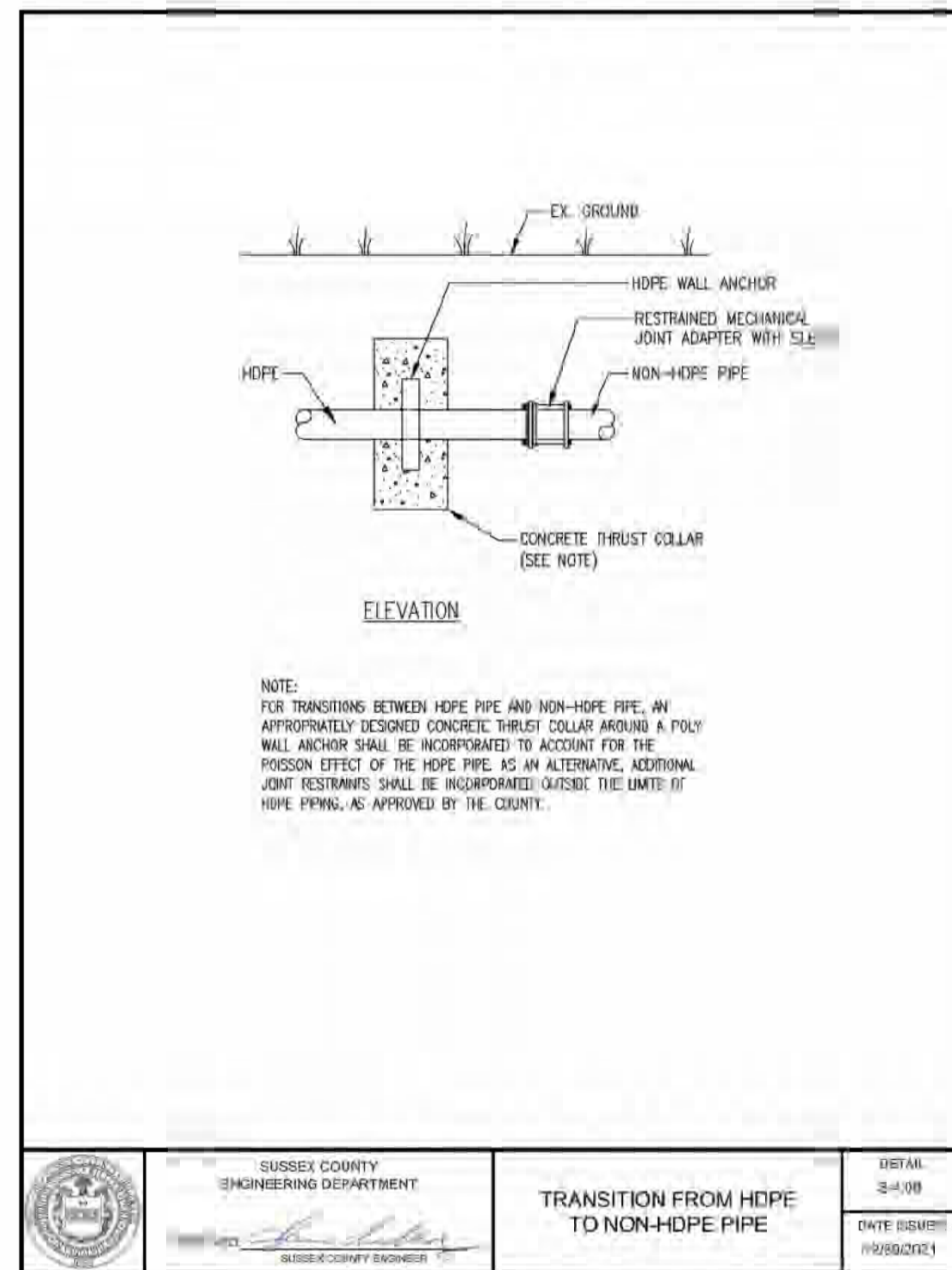
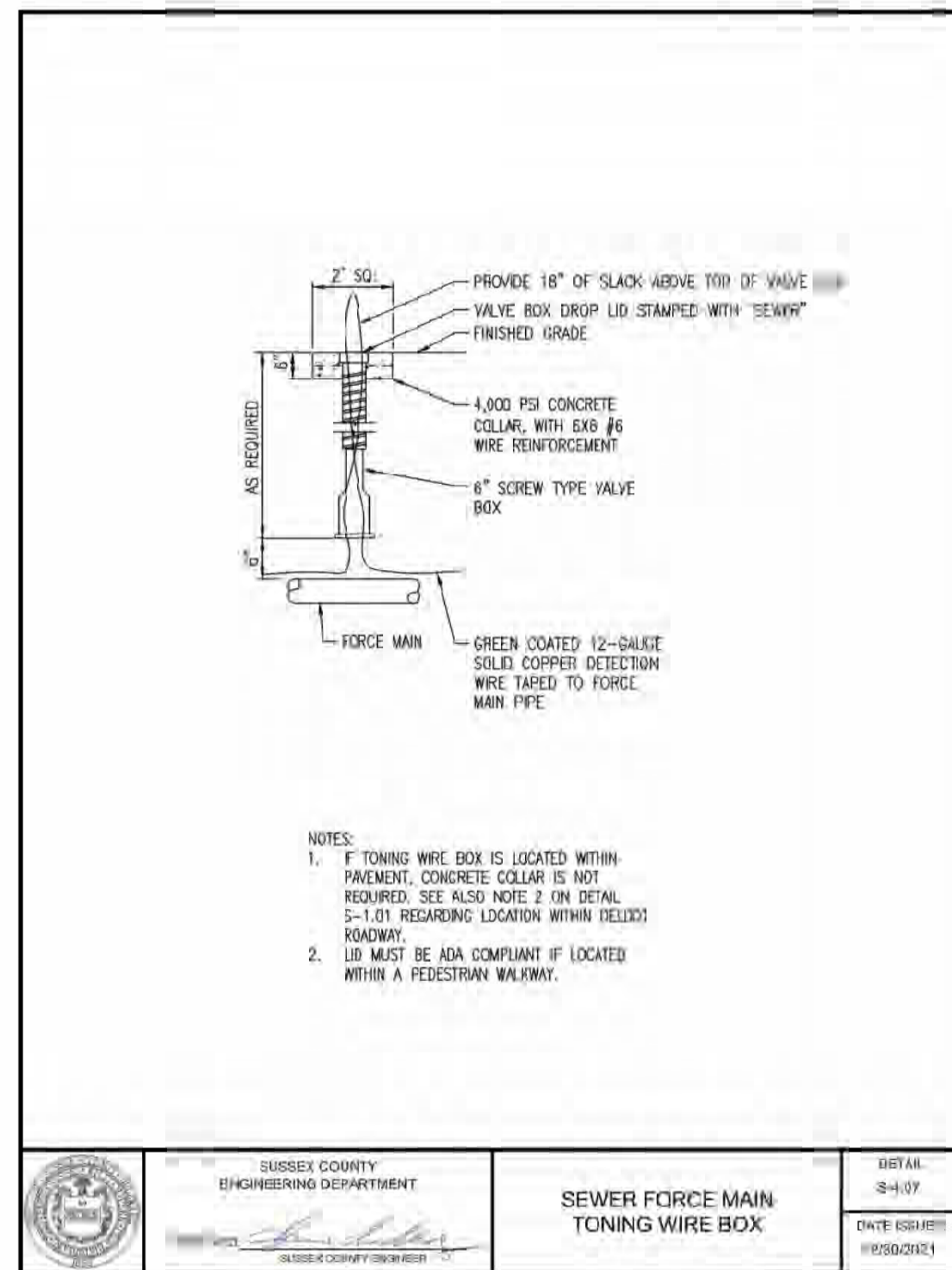
**CONCRETE BUTTRESS DIMENSIONS**

CONFIGURATION	PIPE DIAMETER (D) IN INCHES (I.D.)													
	1.5	2	3	4	6	8	10	14	18	24	30	36	48	
90°	A	12	12	15	24	24	30	48	69					
	B	3	3	4	6	6	9	13	18					
	C	12	18	18	22	22	21	24	24					
45°	A	6	8	11	15	15	20	37	51					
	B	2	4	6	7	7	8	19	26					
	C	9	12	12	8	8	9	22	22					
22.5°	A	4	6	9	9	9	12	26	37					
	B	1	3	4	7	7	8	13	19					
	C	6	9	9	8	8	8	12	17					
11.25°	A	3	4	6	6	6	8	19	26					
	B	1	2	3	7	7	8	10	13					
	C	6	6	8	7	7	7	10.5	10.5					
PLUG	A	6	9	9	6	6	8	10.5	10.5					
	B	7	8	13	12	12	16	42	58					
	C	4	5	7	15	17	23	21	29					
TEE	A	12	18	18	8	8	9	21	21					
	B	4	5	7	6	6	10	21	29					
	C	2	3	4	7	7	9	11	15					
	D	2	2	4	6	6	8	12	14					

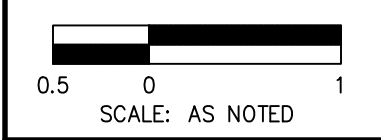
NOTE: SEE DETAIL S-4.03 FOR CONFIGURATIONS.

NOTES:  
 1. ALL CONCRETE TO HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI.  
 2. BUTTRESS DIMENSIONS GIVEN ARE MINIMUM DIMENSIONS BASED UPON 3000 PSI MINIMUM SOIL BEARING CAPACITY AND 150 PSI MINIMUM WREATHING PIPE PRESSURE. PARAMETERS OUTSIDE OF THESE TOLERANCES WILL REQUIRE A SPECIAL BUTTRESS DESIGN APPROVED BY THE COUNTY.  
 3. ALL CONCRETE SHALL BE POURED AGAINST UNDISTURBED EARTH.  
 4. TEE DIMENSIONS IN TABLE SHALL BE USED FOR WYES.

DATE: 8-4-04  
 DATE DESIGNED: 1/18/2021



THIS PLAN HAS BEEN PREPARED SPECIFICALLY FOR THE CLIENT AND PROJECT DESIGNATED HEREON. ANY REVISIONS, ALTERATIONS, DUPLICATION OR USE WITHOUT WRITTEN CONSENT OF A.H. DAVENPORT LLC IS PROHIBITED BY LAW. COPYRIGHT 2023 A.H. DAVENPORT LLC. ALL RIGHTS RESERVED.



NONE THIS SHEET	11-28-23
NONE THIS SHEET	10-31-23
SIZE COMMENTS	CMK 8-7-23
AGENCY COMMENTS	CMK 5-18-23
N/A	HAJ 12-20-22
REVISIONS	DATE
DATE:	9-26-22
DRAWN BY: CMK	CHECKED: AJH
FILE:	4270DET.pro
PROJECT NO.:	4270