

DELDOT UTILITY PLAN NOTES

- PLANS ARE REVIEWED FOR CONFORMANCE WITH DELDOT STANDARDS.
2. MANHOLE TOP SECTIONS WILL BE OFF SET CONE STYLE. ANY MANHOLE LIDS THAT ARE DETERMINED BY DELDOT TO NOT BE IN THE CENTER OF THE LANE SHALL BE ADJUSTED PRIOR TO FINAL PAVEMENT PLACEMENT.
3. MANHOLE FRAME AND LIDS SHALL BE INITIALLY SET $\frac{1}{2}$ " LOW AND ADJUSTED TO FINISH GRADE WITH CONCRETE COLLAR AFTER FINAL PAVEMENT HAS BEEN PLACED.
4. CONCRETE COLLARS SHALL BE POURED AROUND MANHOLE FRAME AND LIDS/VALVE BOXES TO FINISH GRADE USING CLASS "A" CONCRETE.
5. ALL BACKFILL MATERIAL IN EXISTING/PROPOSED ROADWAY SHALL CONFORM TO TYPE "C" BORROW. ALL BORROW BACKFILL SHALL BE COMPACTED TO 95% USING AASHTO T99 STANDARD FOR TESTING.
6. GABC PLACED SHALL BE COMPACTED TO 98%.
7. COMPACTION TESTING SHALL BE PERFORMED EVERY 100' AND TESTING SHALL BE TAKEN ON EACH LIFT OF MATERIAL PLACED.
8. TAR CHIP/HOT MIXES ROADS: TRAVEL WAY PAVEMENT DISTURBED SHALL BE RESTORED AT THE END OF THE DAY PRIOR TO REOPENING TO TRAFFIC. HOT MIX SHALL BE PLACED PER TEMP PATCHING DETAIL 6" GABC AND 2" TYPE "C" HOT MIX.
9. TAR CHIP/HOT MIXES SHOULDERS: SHOULDERS DISTURBED MAY BE LEFT IN GABC TO FINISH GRADE OVERNIGHT BUT SHALL BE CLOSED USING APPROPRIATE SIGNING AND DRUMS. TEMP PAVEMENT SHALL BE PLACED FOR SHOULDERS AT THE END OF EACH WORK WEEK.
10. IF THE REMAINING PORTION OF HOTMIX BETWEEN THE PIPE TRENCH EXCAVATION AND EDGE OF PAVEMENT IS LESS THAN 3' THE REMAINING SECTION SHALL BE REMOVED AND REPAVED AS PART OF THE FULL DEPTH PAVING RESTORATION.
11. ALL AREAS DISTURBED OUTSIDE OF THE PAVEMENT SHALL BE GRADED EACH DAY TO ENSURE POSITIVE DRAINAGE AND SHALL BE PERMANENTLY RESTORED AT THE END OF EACH WEEK.
12. ALL TEMPORARY HOT MIX SHALL BE PLACED TO PROVIDE A SMOOTH RIDABLE SURFACE TO DELDOT STANDARDS.
13. A SAFETY EDGE IS REQUIRED ON ALL HOT MIX PLACED.
14. ANY STRIPING DISTURBED SHALL BE PLACED AT THE END OF THE DAY PRIOR TO OPENING TO TRAFFIC.
15. PROOF ROLL OF GABC SHALL BE PERFORMED USING A LOADED 10 WHEELER PRIOR TO PLACEMENT OF HOT MIX.
16. ALL MATERIALS AND WORKMANSHIP WITHIN THE STATE R/W SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, SUPPLEMENTAL SPECIFICATIONS, STANDARD CONSTRUCTION DETAILS, UTILITY MANUAL, SPECIAL PROVISIONS AND DESIGN MEMORANDUMS.
17. THERE IS A ONE YEAR WARRANTY ON ALL EARTH WORK AND CONCRETE. A THREE YEAR WARRANTY ON ALL HOT MIX INCLUDING SUBBASE/SUBGRADE ISSUES WITHIN THE PAVEMENT AREAS. WARRANTY DOES NOT START UNTIL ALL WORK IS COMPLETED AND A STAND OF GRASS HAS BEEN ESTABLISHED TO DELDOT STANDARDS AND A ACCEPTANCE LETTER HAS BEEN ISSUED.
18. ALL DISTURBED AREAS WITHIN THE STATE RIGHT-OF-WAY, BUT NOT IN THE PAVEMENT, SHALL BE TOP-SOILED (6" MINIMUM), FERTILIZED, SEEDED AND MULCHED. IF SOD IS USED NEXT TO SIDEWALK OR SHARED-USE PATH, CONTRACTOR SHALL GRADE TOPSOIL ADJACENT TO THE SIDEWALK OR SHARED-USE PATH PRIOR TO PLACEMENT OF SOD TO ENSURE THAT SOD IS PLACED FLUSH OR JUST BELOW EDGE OF SIDEWALK OR SHARED-USE PATH TO AVOID WATER PONDING ON THE SIDEWALK OR SHARED-USE PATH.
19. A 72-HOUR (MINIMUM) NOTICE SHALL BE GIVEN TO THE DELDOT DISTRICT PERMIT SUPERVISOR PRIOR TO STARTING UTILITY CONSTRUCTION.
20. A 48 HOUR NOTICE IS REQUIRED TO BE GIVEN TO THE DELDOT INSPECTOR PRIOR TO MATERIAL RELEASES.
21. ALL CONCRETE /HOT MIX MATERIALS SHALL BE RELEASED BY THE INSPECTOR PRIOR TO PLACEMENT.
22. MISS UTILITY OF DELAWARE SHALL BE NOTIFIED THREE (3) CONSECUTIVE WORKING DAYS PRIOR TO EXCAVATION, AT 1-800-282-8555.
23. ALL SIGNING, STRIPING AND MAINTENANCE OF TRAFFIC IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL FOLLOW THE GUIDELINES SHOWN IN THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) FOR STREETS AND HIGHWAYS (LATEST EDITION). THE OWNER OR MAINTENANCE CORPORATION SHALL BE RESPONSIBLE FOR MAINTENANCE OF ALL SIGNS INSTALLED AS PART OF THIS PROJECT.
24. A COPY OF THE UP TO DATE APPROVED CONSTRUCTION DOCUMENTS AND DELDOT APPROVAL LETTERS SHALL BE MAINTAINED ON THE PROJECT SITE AT ALL TIMES AND BE AVAILABLE FOR INSPECTION BY DELDOT PERSONNEL.
25. EXISTING UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION. COMPLETENESS OR CORRECTNESS THEREOF IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANIES INVOLVED IN ORDER TO SECURE THE MOST ACCURATE INFORMATION AVAILABLE AS TO UTILITY LOCATION AND ELEVATION. NO CONSTRUCTION AROUND OR ADJACENT TO UTILITIES SHALL BEGIN WITHOUT NOTIFYING THEIR OWNERS AT LEAST 48-HOURS IN ADVANCE. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE AND ANY DAMAGE DONE TO THEM DUE TO HIS/HER NEGLIGENCE SHALL BE IMMEDIATELY AND COMPLETELY REPAIRED AT THE CONTRACTOR'S EXPENSE. TO LOCATE EXISTING UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT MISS UTILITY OF DELAWARE (SEE NOTE #22).
26. SHOULD UTILITY RELOCATION BE REQUIRED, THE DEVELOPER MUST SUBMIT A UTILITY RELOCATION PLAN FOR DELDOT REVIEW, ALONG WITH CORRESPONDENCE FROM THE UTILITY COMPANIES STATING PRELIMINARY APPROVAL TO THE RELOCATION AND DESIGN OF THE UTILITIES PRIOR TO THE DELDOT PRE-CONSTRUCTION MEETING. NO PHYSICAL CONSTRUCTION CAN OCCUR UNTIL THE UTILITY PLANS ARE APPROVED. THE INDIVIDUAL UTILITY COMPANIES ISSUE FINAL APPROVAL, AND A DELDOT UTILITY PERMIT IS ISSUED TO THE UTILITY COMPANY.
27. DESIGN AND INSTALLATION OF ALL PAVEMENT MARKINGS AND STRIPING SHALL BE AS OUTLINED IN THE LATEST VERSION OF THE DE MUTCD. FOR FINAL PERMANENT PAVEMENT MARKINGS EPOXY RESIN PAINT SHALL BE REQUIRED FOR LONG LINE STRIPING. THERMO PLASTIC (EXTRUDED OR PREFORMED MATERIAL) WILL BE REQUIRED ON ASPHALT SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS. PERMANENT PAVEMENT MARKING TAPE (PER DELDOT APPROVED MATERIALS LIST) WILL BE REQUIRED ON CONCRETE SURFACES, FOR SHORT LINE STRIPING, I.E. SYMBOLS/LEGENDS.
28. BREAKAWAY POSTS SHALL BE USED WHEN INSTALLING ALL SIGNS. REFERENCE DELDOT STANDARD CONSTRUCTION DETAIL T-15.
29. ALL PROPOSED CLOSED STORM DRAIN SYSTEMS SHALL BE VIDEO INSPECTED, REPAIRED AS NECESSARY AND APPROVED PRIOR TO THE INSTALLATION OF FINAL PAVING. IF REPAIRS ARE NEEDED, THE REPAIRED PIPE SECTIONS WILL NEED TO BE VIDEO INSPECTED AGAIN BEFORE THE REPAIR CAN BE APPROVED.
30. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT PAVING WITHIN THE STATE OF DELAWARE RIGHT-OF-WAY IS INSTALLED TO THE ELEVATIONS SHOWN AND THAT NO PONDING OF WATER EXISTS AFTER PAVING IS COMPLETE.
31. THE DEPARTMENT RESERVES THE RIGHT TO STOP THE CONTRACTOR'S OPERATIONS, IF, IN THE OPINION OF THE DEPARTMENT'S REPRESENTATIVE, THE CONTRACTOR'S OPERATIONS ARE NOT IN COMPLIANCE WITH THE DELAWARE MUTCD, THE SPECIFICATIONS OR THE PLANS OR IF THE CONTRACTOR'S OPERATIONS ARE DEEMED UNSAFE.
32. ALL ROADWAY CLOSURES OR LANE CLOSURES BEYOND THOSE SPECIFIED AND APPROVED IN THE PLANS SHALL BE APPROVED BY THE DISTRICT SAFETY OFFICER A MINIMUM OF TWO WEEKS IN ADVANCE OF THE PROPOSED RESTRICTION.
33. TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED IN GOOD CONDITION IN ACCORDANCE WITH THE BROCHURE ENTITLED "QUALITY GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES", PUBLISHED BY THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA). ANY TEMPORARY TRAFFIC CONTROL DEVICES THAT DO NOT MEET THE QUALITY GUIDELINES SHALL BE REMOVED AND REPLACED WITH ACCEPTABLE DEVICES. FAILURE TO COMPLY WILL RESULT IN WORK STOPPAGE.
34. THE CONTRACTOR SHALL PROVIDE ALL PROPERTY OWNERS AND RESIDENTS WHO LIVE ADJACENT TO THE WORK ZONE WITH WRITTEN NOTICE, 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION WORK. THIS NOTIFICATION SHALL INCLUDE THE SCOPE OF WORK, WORKING HOURS, ANTICIPATED START AND COMPLETION DATES; A SUMMARY OF CONSTRUCTION ACTIVITIES WHICH MAY INTERFERE WITH ACCESS TO THE PROPERTY INCLUDING A SCHEDULE AND ACCESS COORDINATION PLAN, CONTRACTOR'S NAME AND ADDRESS AND A DELDOT CONTACT PHONE NUMBER. FAILURE TO GIVE PROPER NOTICE WILL RESULT IN A SUSPENSION OF THE WORK REQUIRING NOTICE, UNTIL PROPER NOTICE IS PROVIDED. THE CONTRACTOR SHALL PROVIDE WRITTEN VERIFICATION TO THE ENGINEER THAT THE PROPERTY OWNERS AND RESIDENTS WERE NOTIFIED.
35. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE LOCAL 911 CENTER, LOCAL SCHOOLS AND THE DELDOT PUBLIC INFORMATION CENTER OF ALL ROADS AND LANES TO BE CLOSED A MINIMUM OF SEVEN CALENDAR DAYS BEFORE THE CLOSURE.
36. THE CONTRACTOR SHALL NOTIFY THE LOCAL 911 CENTER IF ACCESS TO A FIRE HYDRANT IS TEMPORARILY RESTRICTED.
37. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE TRANSPORTATION MANAGEMENT CENTER IS NOTIFIED EACH AND EVERY DAY WHEN WORK IS BEING PERFORMED IN STATE RIGHT-OF-WAY. THE CONTRACTOR SHALL IDENTIFY THE TYPE OF WORK, ANY LANE(S) OR SHOULDERS CLOSED, THE LENGTH OF TIME FOR WORK, WHEN THE LANE RESTRICTIONS ARE IN PLACE AND WHEN LANE RESTRICTIONS ARE LIFTED, CONTACT PERSON/PHONE NUMBER AND STATE INSPECTOR. THE TRANSPORTATION MANAGEMENT CENTER CAN BE REACHED AT (302) 659-4600.
38. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL CORRECT ALL VERTICAL DIFFERENCES IN ACCORDANCE WITH TABLE 66-1 OF THE DELAWARE MUTCD.
39. AT THE END OF EACH DAY'S OPERATION AND BEFORE TRAFFIC IS RETURNED TO UNRESTRICTED ROADWAY USE, TEMPORARY PAVEMENT MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE DELAWARE MUTCD AND DELDOT'S TEMPORARY PAVEMENT MARKINGS POLICY.
40. WHEN SIDE ROADS INTERSECT THE WORK ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED INCLUDING PERMANENT WARNING SIGNS.
41. ALL STORAGE OF EQUIPMENT AND MATERIAL SHALL COMPLY WITH SECTION 66.21 OF THE DELAWARE MUTCD.
42. ALL FLAGGERS SHALL COMPLY WITH CHAPTER 6E OF THE DELAWARE MUTCD.
43. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS/HER WORK WITH OTHER CONTRACTORS IN THE AREA.
44. ALL PERSONS WORKING WITHIN THE STATE RIGHT-OF-WAY SHALL WEAR A MINIMUM OF AN ANSI CLASS II SAFETY VEST MEETING OR EXCEEDING THE ANSI 107-2004 REQUIREMENTS, AS SPECIFIED IN THE DELAWARE MUTCD.
45. ALL PAVEMENT MARKINGS THAT ARE NO LONGER IN USE AND CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED AND COMPLETELY OBLITERATED BY A METHOD APPROVED BY THE ENGINEER. PAINTING OVER THE CONFLICTING PAVEMENT MARKINGS WILL NOT BE ACCEPTED AS A METHOD OF REMOVAL.
46. WITHIN THE MAINLINE WORK AREA, PERMANENT ADVANCE WARNING SIGNS WITH THE LEGENDS ROAD WORK 1500 FT, ROAD WORK 1000 FT AND ROAD WORK 500 FT SHALL BE INSTALLED IN ADVANCE OF THE WORK AREA IN BOTH DIRECTIONS. AN END ROAD WORK SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM FROM THE WORK AREA, ON INTERSECTING ROADWAYS WITHIN THE PROJECT LIMITS. A ROAD WORK AHEAD SIGN SHALL BE PLACED AT A DISTANCE NOT LESS THAN 500 FEET IN ADVANCE OF THE WORK AREA AND AN END ROAD WORK SIGN SHALL BE LOCATED 500 FEET DOWNSTREAM OF THE WORK AREA. ALL PERMANENT ADVANCE WARNING SIGNS SHALL BE GROUND MOUNTED ON TWO NCHRP-350 OR MASH APPROVED BREAKAWAY POSTS AND SHALL BE MOUNTED IN COMPLIANCE WITH THE DELAWARE MUTCD. PERMANENT ADVANCE WARNING SIGNS SHALL BE MOUNTED AT A HEIGHT OF 7 FEET, MEASURED FROM THE ROADWAY TO THE BOTTOM OF THE SIGN. THE USE OF SKID MOUNTED SIGN SUPPORTS IS NOT ALLOWED UNLESS THE CONTRACTOR CAN DEMONSTRATE THAT A UTILITY CONFLICT EXISTS, WHICH SHALL BE VERIFIED BY THE ENGINEER; OR CONCRETE MEDIANS PREVENT THE INSTALLATION OF THE PERMANENT ADVANCE WARNING SIGNS IN THE APPROPRIATE LOCATION.

FINAL PLANS
PRINTS ISSUED FOR
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REVISIONS

ON



**DONOVAN - SMITH
MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMENT PLANS**

**CITY OF LEWES
SUSSEX COUNTY, DELAWARE**



DELDOT UTILITY PLAN NOTES

SCALE	: NONE	SHEET NO. G1.1
DESIGN BY	: JWK	
DRAWN BY	: JWK	
CHECKED BY	: VAL_COD	
GMB FILE	: 170196	
DATE	: JULY 2022	

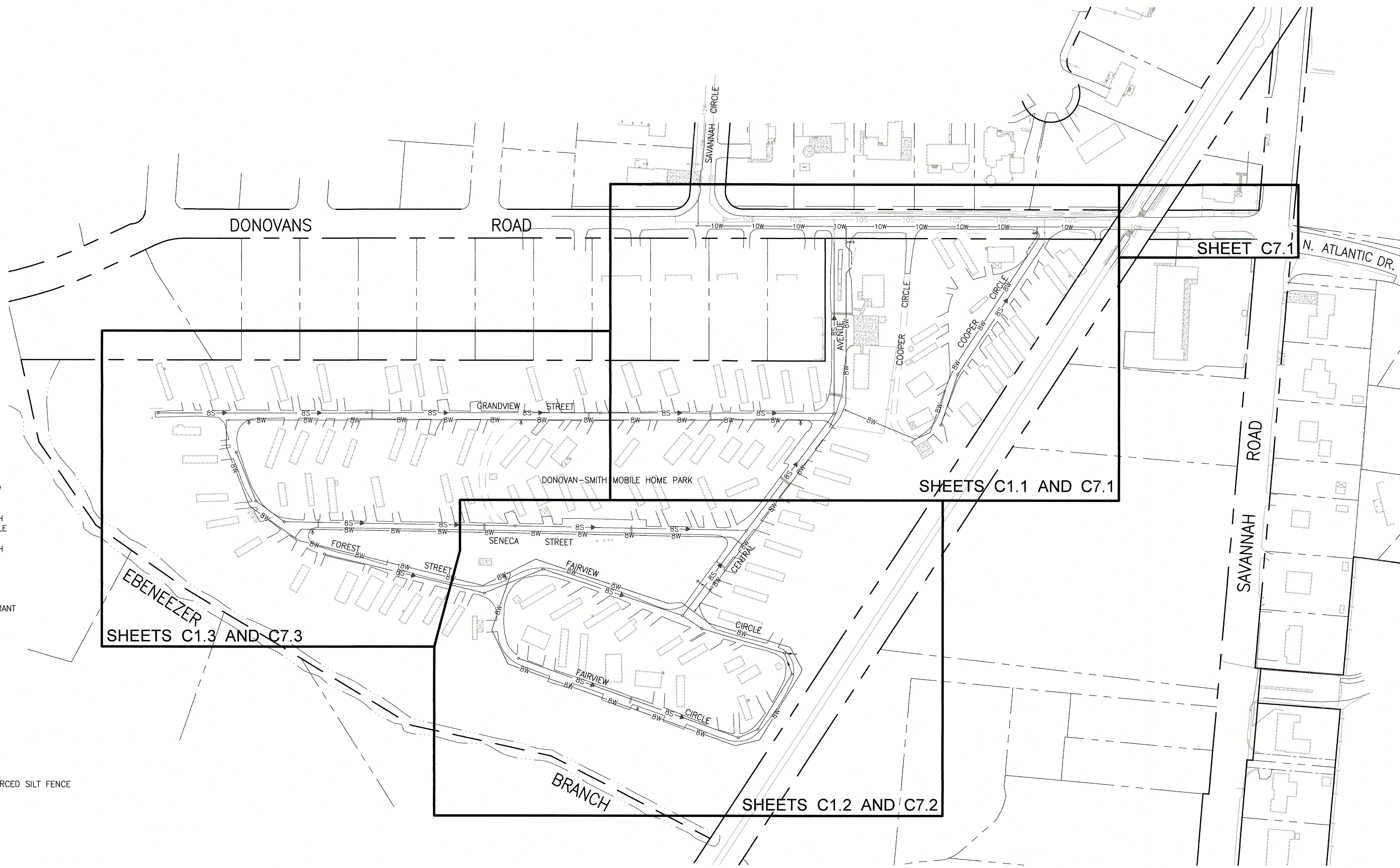
H:\Projects\2017\0170196 BPW - Donovan Smith Map Sewer Extension\Design Plans\Drawings\Working Sets\Final Site Plans\C1.0-Key Plan.dwg, 9/6/2022 9:27 AM, John W. King

PN1=RED .007 INCHES (15mm) PEN2=YELLOW .007 INCHES (15mm) PEN3=GREEN .010 INCHES (25mm) PEN4=BLUE .020 INCHES (50mm) PEN5=MAGENTA .027 INCHES (70mm) PEN6=WHITE .030 INCHES (75mm)

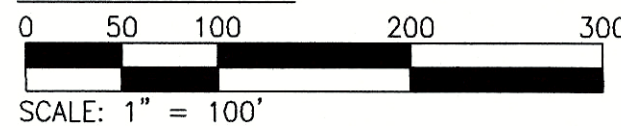
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LEGEND

EXISTING	PROPOSED	
		PROPERTY LINE/RIGHT OF WAY
		100 YEAR FLOOD ZONE LINE
		PAVED ROAD
		CONCRETE SURFACE
		GRAVEL SURFACE
		CONCRETE CURB
		ASPHALT SPEED BUMP
		BUILDING
		ELEVATION CONTOUR
		SPOT ELEVATION
		CENTERLINE OF STREAM OR SWALE
		UTILITY POLE WITH GUY WIRE
		TELEPHONE PEDESTAL
		UNDERGROUND TELEPHONE CABLE
		ELECTRIC METER
		ELECTRIC PANEL
		CABLE TELEVISION PEDESTAL
		MAILBOX
		LIGHT POLE
		UNDERGROUND ELECTRIC CABLE
		UNDERGROUND TELEPHONE CABLE
		STORMWATER PIPE WITH SIZE, FLOW DIRECTION AND CATCH BASIN
		GRAVITY SANITARY SEWER MAIN WITH SIZE, FLOW DIRECTION AND MANHOLE
		SEWAGE/SEPTIC HOLDING TANK WITH CAPACITY
		SEWER/SEPTIC CLEANOUT
		WATER MAIN, VALVE AND FIRE HYDRANT
		CURB STOP AND WATER METER
		CHAIN LINK FENCE
		WOOD FENCE
		TRAFFIC SIGN
		EDGE OF BRUSH OR WOODS
		TREE
		BUSH
		LIMIT OF DISTURBANCE
		LIMIT OF DISTURBANCE AND REINFORCED SILT FENCE
		SILT FENCE
		SOIL STOCKPILE
		INLET PROTECTION
		CONCRETE WASHOUT



KEY PLAN

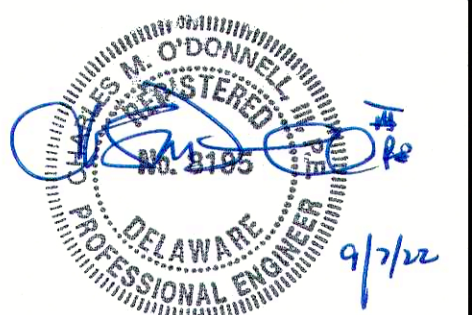


FINAL PLANS
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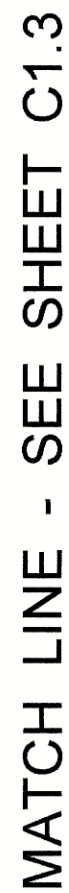
DONOVAN - SMITH
MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANEGMNT PLANS
CITY OF LEWES
SUSSEX COUNTY, DELAWARE



KEY PLAN
AND
LEGEND

SCALE	: 1" = 100'	SHEET NO.
DESIGN BY	: JWK	C1.0
DRAWN BY	: JWK	
CHECKED BY	: VAL, COD	
GMB FILE	: 170196	
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- 1 RESTORE MANHOLE EXCAVATION AND PIPE TRENCH PER "TYPICAL MHP ROAD TRENCH AND TEMPORARY PAVEMENT RESTORATION DETAIL" ON SHEET C10.1 (TYPICAL).
- 2 FURNISH AND INSTALL PVC SANITARY SEWER LATERAL AND CLEANOUT WITH CAST IRON FRAME AND COVER PER "STANDARD LATERAL, CLEANOUT DETAIL" ON SHEET C4.2.
- 3 APPROXIMATE LOCATION OF EXISTING SEPTIC / SEWAGE HOLDING TANK. CONTRACTOR SHALL ABANDON TANK IN ACCORDANCE WITH DNR REGULATIONS. AT COMPLETION OF SEWER MAIN INSTALLATION, CONTRACTOR SHALL COORDINATE WITH THE PARK OWNER TO DETERMINE THE ACTUAL LOCATION OF THE TANK. CUT AND CAP THE ABANDONED SANITARY SEWER LINES. REMOVE UD(S) AND TOPSOIL / STABILIZE IN ACCORDANCE WITH SHEETS C2.1 THROUGH C2.3.
- 4 WATER MAIN / SEWER MAIN CROSSING. CONTRACTOR SHALL SEEK TO MAINTAIN AT LEAST 10' HORIZONTAL AND 18" VERTICAL SEPARANCE BETWEEN WATER AND SANITARY SEWER MAINS. ENCASEMENT IN CONCRETE OF WATER MAINS IS REQUIRED WITHIN 1' OF CROSSING BETWEEN WATER AND SEWER MAINS WHERE VERTICAL SEPARATION IS LESS THAN 18". WHERE MINIMUM SEPARATION DISTANCES CANNOT BE MAINTAINED, PROVIDE A MINIMUM SIX INCH PIPE SEPARATION WHERE CONCRETE ENCASEMENT IS UTILIZED. SEE PROFILE ON SHEET C5.1.
- 5 FURNISH AND INSTALL 10" DIA. C900 PVC PIPE WATER MAIN AND APPURTENANCES. RESTORE PIPE TRENCH PER DETAILS ON SHEET C10.1.
- 6 FURNISH AND INSTALL 8" DIA. C900 PVC PIPE WATER MAIN AND APPURTENANCES. RESTORE PIPE TRENCH PER DETAILS ON SHEET C10.1.
- 7 REMOVE EXISTING CAP. FURNISH AND INSTALL 12"x10" REDUCER.
- 8 FURNISH AND INSTALL 8" GATE VALVE PER DETAIL ON SHEET C6.1.

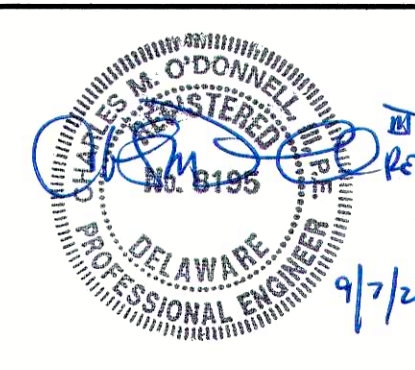
- AT **(30)** FURNISH AND INSTALL 6"x6" WATER METER VAULT. INSTALL 6" WATER METER PURCHASED BY THE CITY OF LEWES BOARD OF PUBLIC WORKS. REFER TO "TYPICAL WATER METER VAULT SECTION" ON SHEET C6.1.
- AY **(31)** FURNISH AND INSTALL 6" GATE VALVE PER DETAIL ON SHEET C6.1.
- F **(32)** FURNISH AND INSTALL 8"x6" REDUCER.
- H **(33)** INSTALL INLET PROTECTION IP-2 PER DETAIL ON SHEET C2.1.
- (34)** FURNISH AND INSTALL PVC SANITARY SEWER LATERAL AND CLEANOUT WITHOUT CAST IRON FRAME AND COVER PER "PRIVATE LATERAL CLEANOUT DETAIL" ON SHEET C4.2.
- (35)** FURNISH AND INSTALL CURB STOP AND 1" P.E. PIPE AS DIRECTED BY THE CITY OF LEWES BOARD OF PUBLIC WORKS. REFER TO "HOUSE SERVICE CONNECTION DETAIL - LOTS 1 AND 2" ON SHEET C4.2.
- (36)** WATER MAIN / STORM DRAIN CROSSING. SEE "DONOVANS ROAD WATER MAIN CROSSING AT CENTRAL AVENUE PROFILE" ON SHEET C5.1.

1. SEWER PROFILES OF THIS PLAN ARE LOCATED ON SHEETS C3.1 AND C3.2.
2. TYPICAL SEWER DETAILS ARE LOCATED ON SHEETS C4.1 AND C4.2.
3. FURNISH AND INSTALL ALL PVC SANITARY SEWER LATERALS AND CLEANOUTS AT THE LOCATIONS SHOWN ON THIS DRAWING AND PER DETAILS ON SHEET C4.2.
4. THERE WILL BE TWO TYPES OF INSTALLATION FOR SANITARY SEWER CLEANOUTS. THE FIRST TYPE, "STANDARD LATERAL CLEANOUT DETAIL", WILL ONLY APPLY TO THE FIRST CLEANOUT OFF OF THE SEWER MAIN. THE SECOND TYPE, "PRIVATE LATERAL CLEANOUT DETAIL", WILL APPLY TO ALL SUBSEQUENT CLEANOUTS AFTER THE FIRST CLEANOUT.
5. FURNISH AND INSTALL CURB STOP AND 1" DIA. POLYETHYLENE PIPE AT THE LOCATIONS SHOWN ON THIS DRAWING. REFER TO "HOUSE SERVICE CONNECTION DETAIL" ON SHEET 6.1. FURNISH AND INSTALL WATER SERVICE PIT 5' FROM WHERE SERVICE LINE MEETS THE OUTSIDE WALL OF THE HOME. REFER TO "HOMEOWNER PIT DETAIL" ON SHEET C6.1.
6. AT ALL LOCATIONS WHERE A HOME EXISTS A CONNECTION SHALL BE MADE TO THE UNIT AND THE EXISTING CONNECTION TO THE DONOVAN SMITH MOBILE HOME PARK SHALL BE ABANDONED. CONTRACTOR SHALL WRAP ALL NEW PIPING UNDER UNITS WITH HEATING CABLE, EASY HEAT MODEL #2302. HOMEOWNER IS RESPONSIBLE FOR PROVIDING THE ELECTRICAL CONNECTION AND FOR DECIDING WHETHER TO CONNECT TO THE CABLE.

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MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMENT PLANS**

**CITY OF LEWES
SUSSEX COUNTY, DELAWARE**



<h1 style="margin: 0;">UTILITY PLAN</h1>		
SCALE :	1" = 30'	SHEET NO.
DESIGN BY :	JWK	C1.1
DRAWN BY :	JWK	
CHECKED BY :	VAL, COD	
CMB FILE :	170196	
DATE :	JULY 2022	



1. SEWER PROFILES OF THIS PLAN ARE LOCATED ON SHEETS C3.1 AND C3.2.
2. TYPICAL SEWER DETAILS ARE LOCATED ON SHEETS C4.1 AND C4.2.
3. FURNISH AND INSTALL ALL PVC SANITARY SEWER LATERALS AND CLEANOUTS AT THE LOCATIONS SHOWN ON THIS DRAWING AND PER DETAILS ON SHEET C4.2.
4. THERE WILL BE TWO TYPES OF INSTALLATION FOR PVC SANITARY SEWER CLEANOUTS. THE FIRST TYPE, "STANDARD LATERAL CLEANOUT DETAIL", WILL ONLY APPLY TO THE FIRST CLEANOUT OFF OF THE SEWER MAIN. THE SECOND TYPE, "PRIVATE LATERAL CLEANOUT DETAIL", WILL APPLY TO ALL SUBSEQUENT CLEANOUTS AFTER THE FIRST CLEANOUT.
5. FURNISH AND INSTALL CURB STOP AND 1" DIA. POLYETHYLENE PIPE AT THE LOCATIONS SHOWN ON THIS DRAWING. REFER TO "HOUSE SERVICE CONNECTION DETAIL" ON SHEET 6.1. FURNISH AND INSTALL WATER SERVICE PIT 5' FROM WHERE SERVICE LINE MEETS THE OUTSIDE WALL OF THE HOME. REFER TO "HOMEOOWNER PIT DETAIL" ON SHEET C6.1.
6. AT ALL LOCATIONS WHERE A HOME EXISTS A CONNECTION SHALL BE MADE TO THE UNIT AND THE EXISTING CONNECTION TO THE DONOVAN SMITH MOBILE HOME PARK SHALL BE ABANDONED. CONTRACTOR SHALL WRAP ALL NEW PIPING UNDER UNITS WITH HEATING CABLE. EASY HEAT MODEL #2302. HOMEOOWNER IS RESPONSIBLE FOR PROVIDING THE ELECTRICAL CONNECTION AND FOR DECIDING WHETHER TO CONNECT TO THE CABLE.

1	FURNISH AND INSTALL PVC SANITARY SEWER LATERAL AND CLEANOUT WITH CAST IRON FRAME AND COVER PER STANDARD LATERAL CLEANOUT DETAILS ON SHEET C4.2.	9	FURNISH AND INSTALL 8" 22½" BEND.
2	APPROXIMATE LOCATION OF EXISTING SEPTIC / SEWAGE HOLDING TANK. CONTRACTOR SHALL ABANDON TANK IN ACCORDANCE WITH DNREC REGULATIONS, AT COMPLETION OF SEWER MAIN INSTALLATION. CONTRACTOR SHALL COORDINATE WITH THE PARK OWNER TO DETERMINE THE ACTUAL LOCATION OF THE TANK. CUT AND CAP THE ABANDONED SANITARY SEWER LINES.	10	FURNISH AND INSTALL 8" 22½ AND 1½" BENDS.
3	FURNISH AND INSTALL 8" DIA. C900 PVC PIPE WATER MAIN AND APPURTENANCES. RESTORE PIPE TRENCH PER DETAILS ON SHEET C10.1.	11	FURNISH AND INSTALL 8" 45° AND 1½" BENDS.
4	FURNISH AND INSTALL 4" DIA. C900 PVC PIPE WATER MAIN AND APPURTENANCES. RESTORE PIPE TRENCH PER DETAILS ON SHEET C10.1.	12	FURNISH AND INSTALL 8"x4" REDUCER.
5	FURNISH AND INSTALL 8" GATE VALVE PER DETAIL ON SHEET C6.1.	13	INSTALL BLOWOFF PER DETAIL ON SHEET C6.1.
6	FURNISH AND INSTALL 8"x6" TEE.	14	INSTALL 4" CAP AND BUTTRESS PER "BUTRESS DETAILS FOR TEES AND PLUGS" ON SHEET C6.1.
7	FURNISH AND INSTALL FIRE HYDRANT WITH 6" LEAD AND GATE VALVE PER DETAIL ON SHEET C6.1.	15	INSTALL CURB STOP AND 1" P.E. PIPE AS DIRECTED BY THE CITY OF LEWES BOARD OF PUBLIC WORKS. REFER TO "HOUSE SERVICE CONNECTION DETAIL" ON SHEET C6.1.
8	FURNISH AND INSTALL 8"x8" TEE.	16	CONTRACTOR SHALL ABANDON EXISTING COMMUNITY WELL (4" DIA., 100' DEEP) IN ACCORDANCE WITH DNREC REGULATIONS, AT COMPLETION OF WATER MAIN INSTALLATION. CUT AND CAP ALL WATER LINES FROM ABANDONED WELL.
		17	RESTORE MANHOLE EXCAVATION AND PIPE TRENCH PER "TYPICAL MHP ROAD TRENCH AND TEMPORARY PAVEMENT RESTORATION DETAIL" ON SHEET C10.1 (TYPICAL).

0 15 30 60 90

SCALE: 1" = 30'

North arrow pointing towards the top right.

**DONOVAN - SMITH
MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMENT PLANS**

SUSSEX COUNTY, DELAWARE

CITY OF LEWES

<h1 style="margin: 0;">UTILITY PLAN</h1>		<p style="margin: 0;">SHEET NO.</p> <p style="font-size: 2em; margin: 0;">C1.3</p>
SCALE	: 1" = 30'	
DESIGN BY	: JWK	
DRAWN BY	: JWK	
CHECKED BY	: VAL_COD	
GMB FILE	: 170196	
DATE	: JULY 2022	

\\N:\Project\2017\170196_BPM - Donovan Smith MEP Sewer Extension\Design Phase\Drawings\Working Sets\Draw Site Plans\02.1-3-07-ESC-Amp. 9/16/2022 9:25 AM John W. King
PEN=RED 1/8"=1'-0" (25mm) PEN=BLUE 1/8"=1'-0" (25mm) PEN=GREEN 1/8"=1'-0" (25mm) PEN=YELLOW 1/8"=1'-0" (25mm) PEN=BLACK 1/8"=1'-0" (25mm) PEN=WHITE 1/8"=1'-0" (25mm)

Standard Detail & Specifications

Construction Site Waste Mgt & Spill Control

Notes:

The Construction Site Pollution Prevention Plan should include the following elements:

1. Material Inventory

Document the storage and use of the following materials:

a. Concrete

b. Detergents

c. Paints (enamel and latex)

d. Cleaning solvents

e. Pesticides

f. Wood scraps

g. Fertilizers

h. Petroleum based products

2. Good housekeeping practices

a. Store only enough product required to do the job.

b. All materials shall be stored in a neat, orderly manner in their original labeled containers and covered.

c. Substances shall not be mixed.

d. When possible, all of a product shall be used up prior to disposal of the container.

e. Manufacturers' instructions for disposal shall be strictly adhered to.

f. The site foreman shall designate someone to inspect all BMPs daily.

3. Waste management practices

a. All waste materials shall be collected and stored in securely lidded dumpsters in a location that does not drain to a waterbody.

b. Waste materials shall be salvaged and/or recycled whenever possible.

c. The dumpsters shall be emptied a minimum of twice per week, or more if necessary. The licensed trash hauler is responsible for cleaning out dumpsters.

Source:

Adapted from USEPA Pub. 840-B-92-002

Symbol:

Detail No.

DE-ESC-3.6.1
Sheet 3 of 5

Effective February 2019

Standard Detail & Specifications

Construction Site Waste Mgt & Spill Control

Notes (cont.)

a. Trash shall be disposed of in accordance with all applicable Delaware laws.

b. Trash cans shall be placed at all lunch spots and littering is strictly prohibited. Recycle bins shall be placed near the construction trailer.

c. If fertilizer bags can not be stored in a weather-proof location, they shall be kept on a pallet and covered with plastic sheeting which is overlapped and anchored.

4. Equipment maintenance practices

a. If possible, equipment should be taken to off-site commercial facilities for washing and maintenance.

b. If performed on-site, vehicles shall be washed with high-pressure water spray without detergents in an area contained by an impervious berm.

c. Drip pans shall be used for all equipment maintenance.

d. Equipment shall be inspected for leaks on a daily basis.

e. Washout from concrete trucks shall be disposed of in a temporary pit for hardening and proper disposal.

f. Fuel nozzles shall be equipped with automatic shut-off valves.

g. All used products such as oil, antifreeze, solvents and tires shall be disposed of in accordance with manufacturers' recommendations and local, state and federal laws and regulations.

5. Spill prevention practices

a. Potential spill areas shall be identified and contained in covered areas with no connection to the storm drain system.

b. Warning signs shall be posted in hazardous material storage areas.

c. Preventive maintenance shall be performed on all tanks, valves, pumps, pipes and other equipment as necessary.

d. Low or non-toxic substances shall be prioritized for use.

Source:

Adapted from USEPA Pub. 840-B-92-002

Symbol:

Detail No.

DE-ESC-3.6.1
Sheet 4 of 5

Effective February 2019

Standard Detail & Specifications

Construction Site Waste Mgt & Spill Control

Notes (cont.)

a. Contact information for reporting spills through the DNREC 24-Hour Toll Free Number shall be prominently posted.

6. Education

a. Best management practices for construction site pollution control shall be a part of regular progress meetings.

b. Information regarding waste management, equipment maintenance and spill prevention shall be prominently posted in the construction trailer.

CONTACT INFORMATION

DNREC 24-Hour Toll Free Number

800-662-8802

DNREC Solid & Hazardous Waste Management Section

302-739-9403

Source:

Adapted from USEPA Pub. 840-B-92-002

Symbol:

Detail No.

DE-ESC-3.6.1
Sheet 5 of 5

Effective February 2019

Standard Detail & Specifications

Concrete Washout

Plan View

DATA TO BE PROVIDED:
Length, l
Width, w
Depth, d

Berm required on all sides (excluding access drive location)

Concrete Washout Sign

Access drive to be paved or meet material specifications of a Stabilized Construction Entrance (DE-ESC-3.4.7)

10' min.

6' min.

6' min.

2:1 Typ.

Section A-A

1'

10 mil polyethylene liner

3' min.

6' min.

2% slope

Compacted Berm with liner keyed underneath (or see sandbag option below)

2'

Undisturbed or compacted earth

Paved or gravel access drive to connect to solid surface

Sandbag or concrete block

Alternate Liner Option

Note: Prefabricated concrete washout option not shown.

Source:

Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3

Symbol:

CW

Detail No.

DE-ESC-3.6.2
Sheet 1 of 2

Effective February 2019

Standard Detail & Specifications

Concrete Washout

Construction Notes:

1. Locate washout area a minimum of 50 feet from open channels, stormdrain inlets, wetlands or waterbodies.

2. Locate washout area so that it is accessible to concrete equipment (service with a minimum 10 foot gravel accessway), but so it is not in a highly active construction area causing accidental damage.

3. Minimum dimensions for prefabricated units are 4 feet by 4 feet by 1 foot deep with a minimum 4mil polyethylene plastic liner. Minimum dimensions for constructed concrete washout areas are 6 feet by 6 feet by 3 feet deep, with a minimum 10mil polyethylene liner, 2:1 side slopes, and a 1 foot high by 1 foot wide compacted fill berm.

4. The liner must be free of tears or holes and placed over smooth surfaces to prevent puncturing. For excavated washouts, anchor the liner underneath the berm or overlap with sandbags or concrete blocks to hold in place.

5. Provide a sign designating the washout area, and for large construction sites, provide signs throughout directing traffic to its location.

6. Allow washed out concrete mixture to harden through evaporation of the wastewater. Once the facility has reached 75 percent of its capacity, remove the hardened concrete by reusing the broken aggregate onsite, recycling, or disposing of offsite. The hardened material can be buried on site with minimum of 1 foot of clean, compacted fill.

7. Apply a new liner before reusing the station for additional washouts after maintenance has occurred.

Source:

Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3

Symbol:

CW

Detail No.

DE-ESC-3.6.2
Sheet 2 of 2

Effective February 2019

Standard Detail & Specifications

Soil Stockpile

Plan

DATA
Max. height (H)

Stockpile entrance to be located on upslope side

3' separation (min.)

Perimeter control (i.e. silt fence)

Section A-A

Max. height 20' (10' on residential lot) unless local requirements more restrictive

1 max.

2

Stabilize per Temporary Stabilization specifications

Install perimeter control per specification

Source:

Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3

Symbol:

SP

Detail No.

DE-ESC-3.7.3
Sheet 1 of 2

Effective February 2019

Standard Detail & Specifications

Soil Stockpile

Construction Notes:

1. Locate stockpiles so that they are 50 feet from any storm drain inlet, open channel, wetland or waterbody. Redirect any concentrated flow around the stockpile using an approved erosion and sediment control measure.

2. Secure the perimeter of the stockpile with an approved erosion and sediment control perimeter device.

3. If stockpile is to remain inactive for more than 14 calendar days, the stockpile must be vegetated. Follow the temporary vegetation specifications. The vegetation chosen shall last the duration of the stockpile; the stockpile shall be restabilized if the temporary vegetation dies or erosion results.

Source:

Adapted from Colorado Urban Storm Drainage Criteria Manual, Vol 3

Symbol:

SP

Detail No.

DE-ESC-3.7.3
Sheet 2 of 2

Effective February 2019

Standard Detail & Specifications

Reinforced Silt Fence

Perspective

Min. 40" post driven min. 16" into ground

Max. 6" O.C.

Welded wire fabric backing (Min. 14 Ga., Max. 2" X 4" mesh)

24" Min.

8" Min.

Flow

1"x1"x12" Stake (as needed)

Min. 10 Ga. wire (as needed)

Cross-section

Welded wire fabric backing

1

3

Min. 40" post

Geotextile fabric

16" Min.

Flow

Embed geosynthetic fabric min. 8" into ground

16" min.

Source:

Adapted from Transco, Inc.

Symbol:

RSF

Detail No.

DE-ESC-3.1.2.2
Sheet 1 of 2

Effective February 2019

Standard Detail & Specifications

Reinforced Silt Fence

Construction Notes:

1. Welded wire fabric to be fastened securely to the fence posts with wire ties or staples.

2. Filter cloth to be fastened securely to woven wire fence with ties spaced every 24 inches at top and mid-section.

3. When two sections of fabric adjoin each other, they shall be overlapped by six inches and folded.

4. Maintenance shall be performed as needed and material removed when "bulges" develop in the silt fence.

Materials:

1. Posts: Steel either T or U or 2" x 2" hardwood

2. Geotextile Fabric: Type GD-1

3. Backing: Woven welded wire, 14 Ga., 2" X 4" mesh opening

Source:

Adapted from Transco, Inc.

Symbol:

RSF

Detail No.

DE-ESC-3.1.2.2
Sheet 2 of 2

Effective February 2019

FINAL PLANS
PRINTS ISSUED FOR:
PERMITS

DATE

REVISIONS

NO.

GNB

GEORGE, MILES & BUHR, LLC
ARCHITECTS & ENGINEERS
SALISBURY - BALTIMORE - SEAFORD
www.gmbnet.com

DONOVAN - SMITH
MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMNT PLANS
CITY OF LEWES
SUSSEX COUNTY, DELAWARE

Professional Engineer
No. 4155
9/7/22

CONSTRUCTION
SITE
DETAILS

SCALE : AS NOTED

DESIGN BY : JWK

DRAWN BY : JWK

CHECKED BY : VAL_COD

GMB FILE : 170196

DATE : JULY 2022

SHEET NO.

C2.3

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PNW-RED 200 PLOTS (1 Sheet) PNW-YELLOW 200 PLOTS (1 Sheet) PNW-BLUE 200 PLOTS (1 Sheet) PNW-WHITE 200 PLOTS (1 Sheet)

PNW-ORANGE 200 PLOTS (1 Sheet)

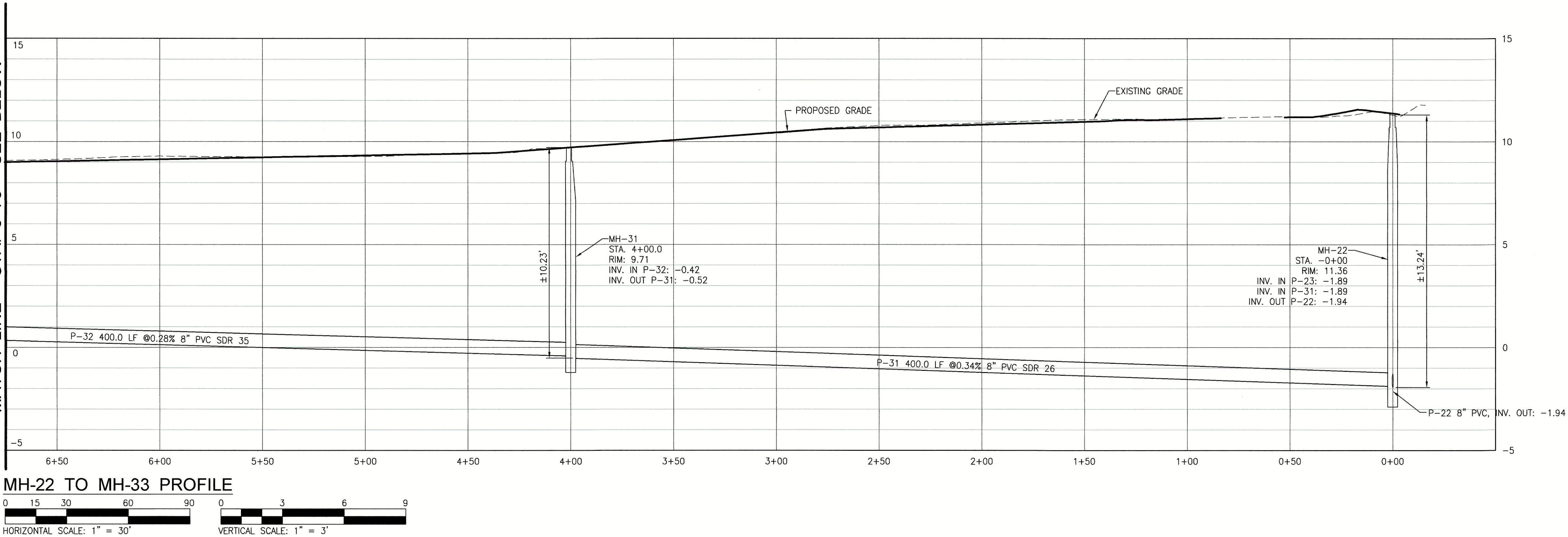
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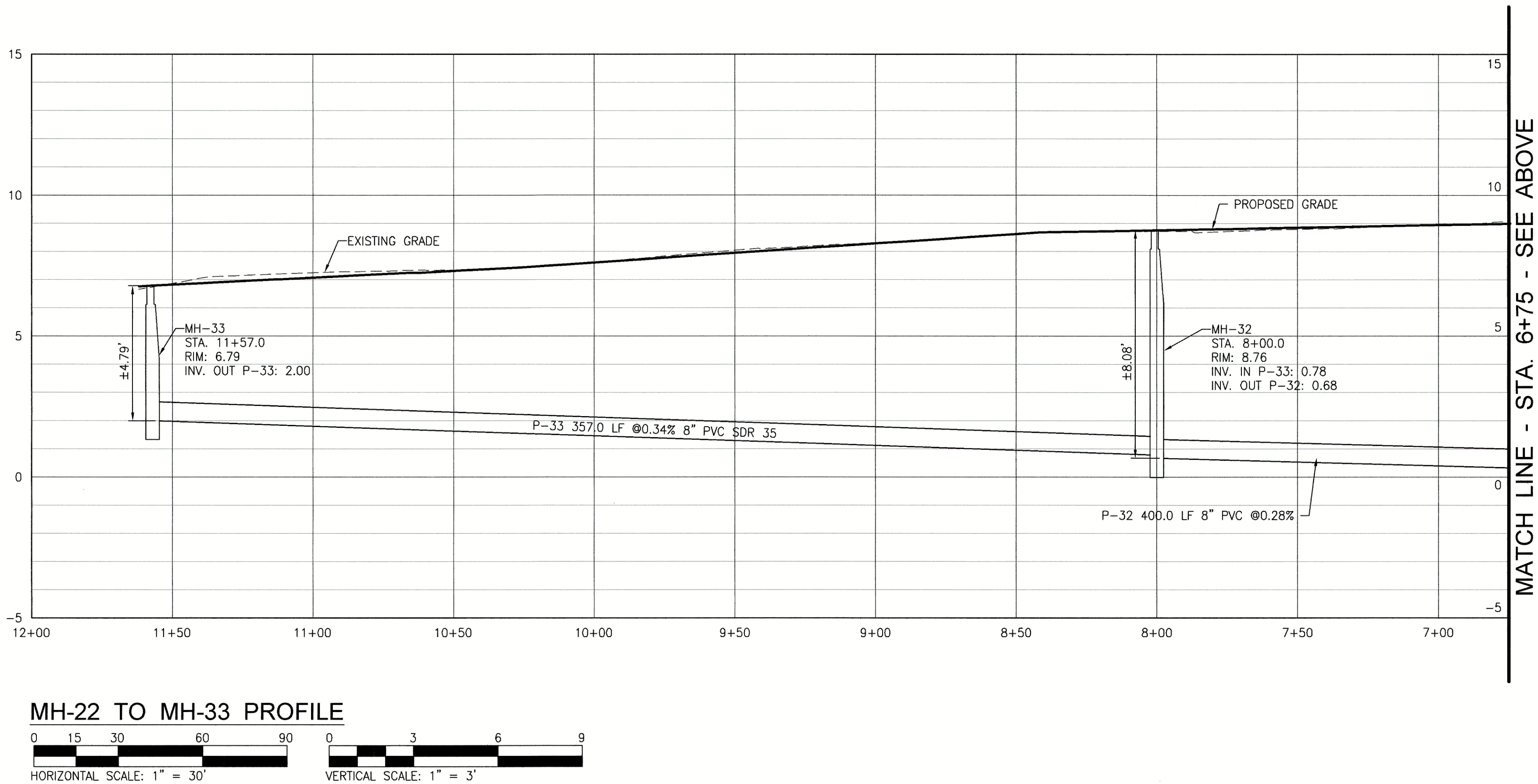
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PNW-BLUE 200 PLOTS (1 Sheet)

MATCH LINE - STA. 6+75 - SEE BELOW



MH-22 TO MH-33 PROFILE



MH-22 TO MH-33 PROFILE

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PRINTS ISSUED FOR:
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EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMNT PLANS

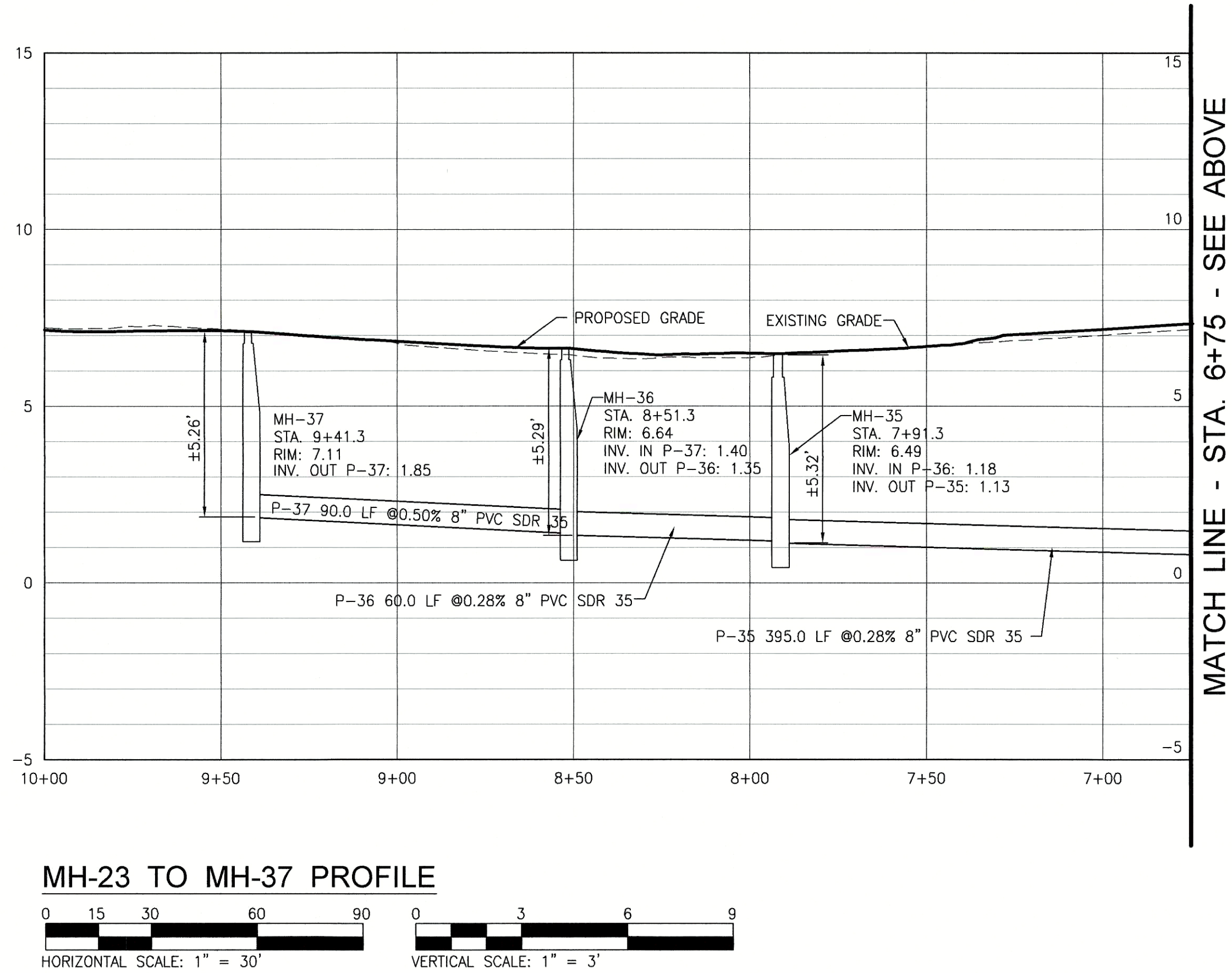
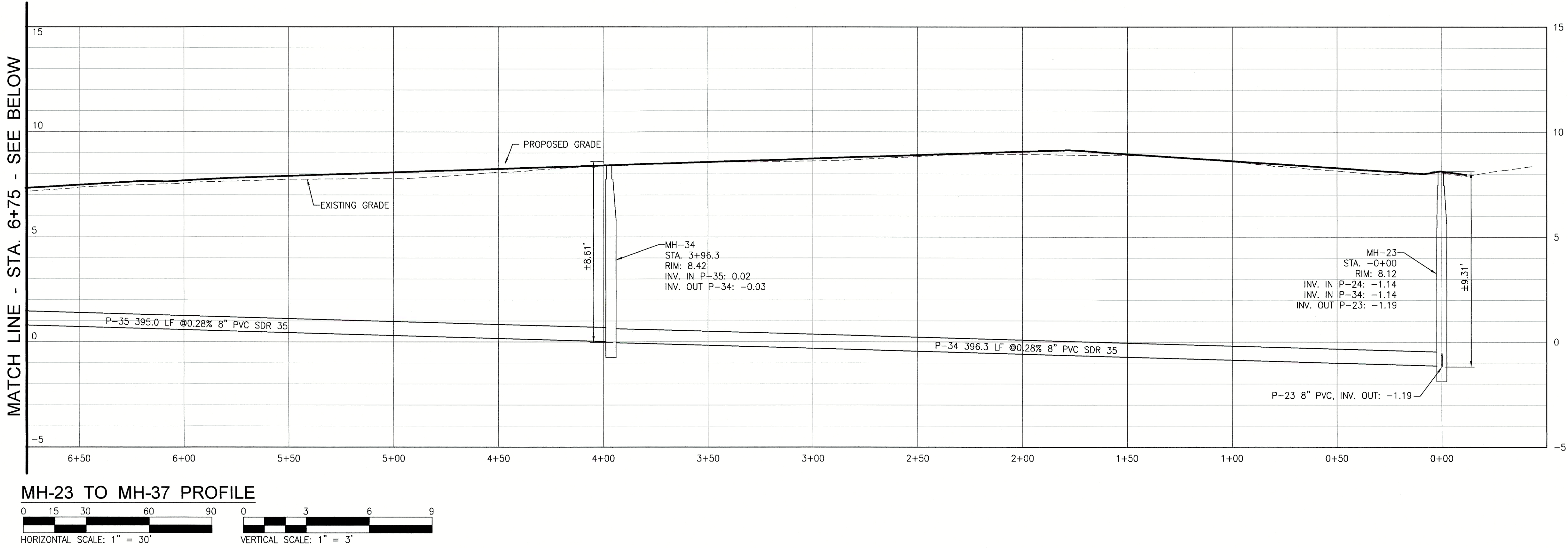
CITY OF LEWES
SUSSEX COUNTY, DELAWARE

SANITARY
SEWER
PROFILES

SCALE : AS SHOWN	SHEET NO.
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DRAWN BY : JWK	
CHECKED BY : VAL.COD	
DATE : JULY 2022	

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PLOT CODE
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200 INCHES (50mm)
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200 INCHES (50mm)
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DWG: JWK
200 INCHES (50mm)



FINAL PLANS PRINTS ISSUED FOR: PERMITS	
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DONOVAN - SMITH

MOBILE HOME PARK

SANITARY SEWER AND WATER

EXTENSIONS

SEDIMENT AND STORMWATER MANAGEMINT PLANS

CITY OF LEWES

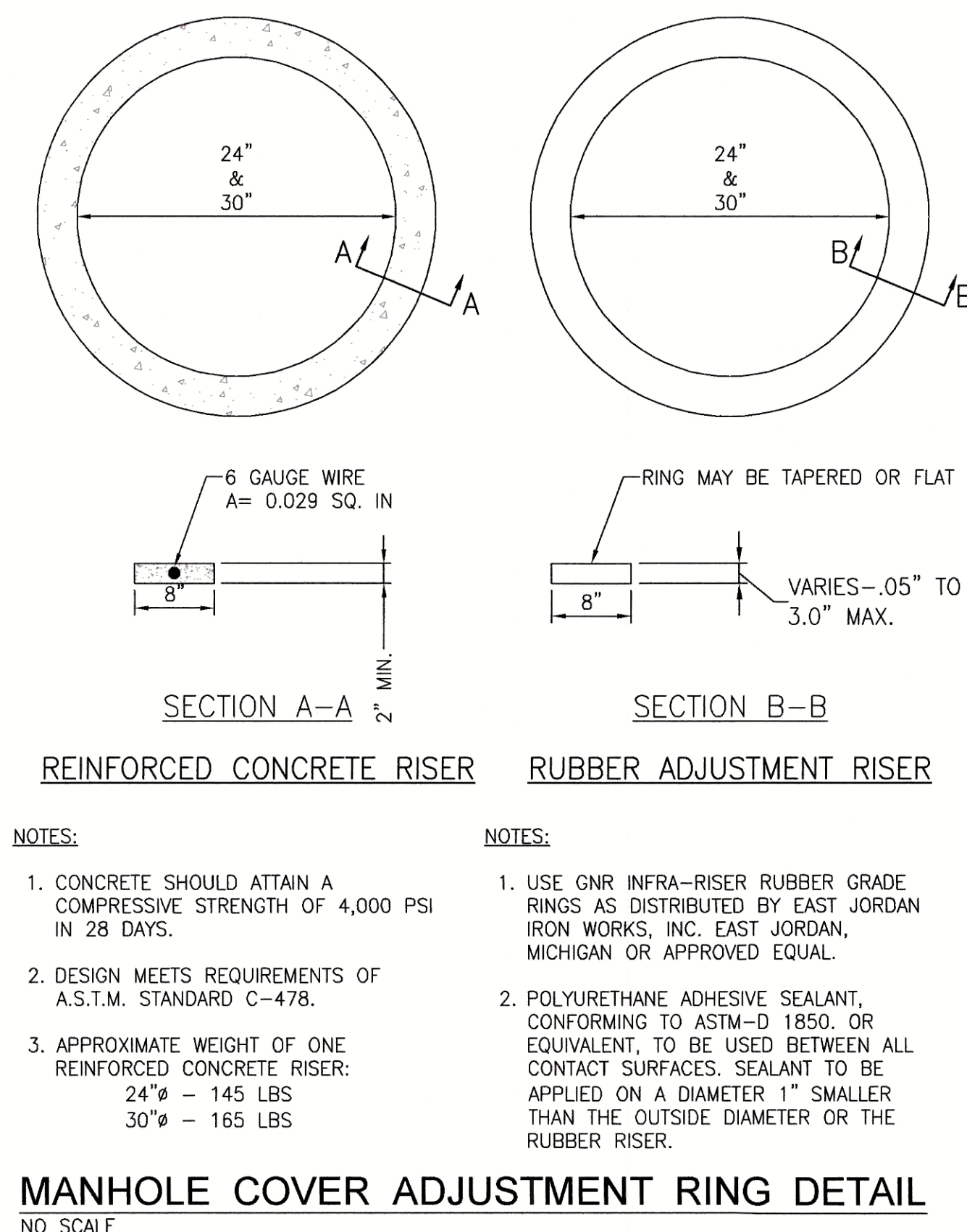
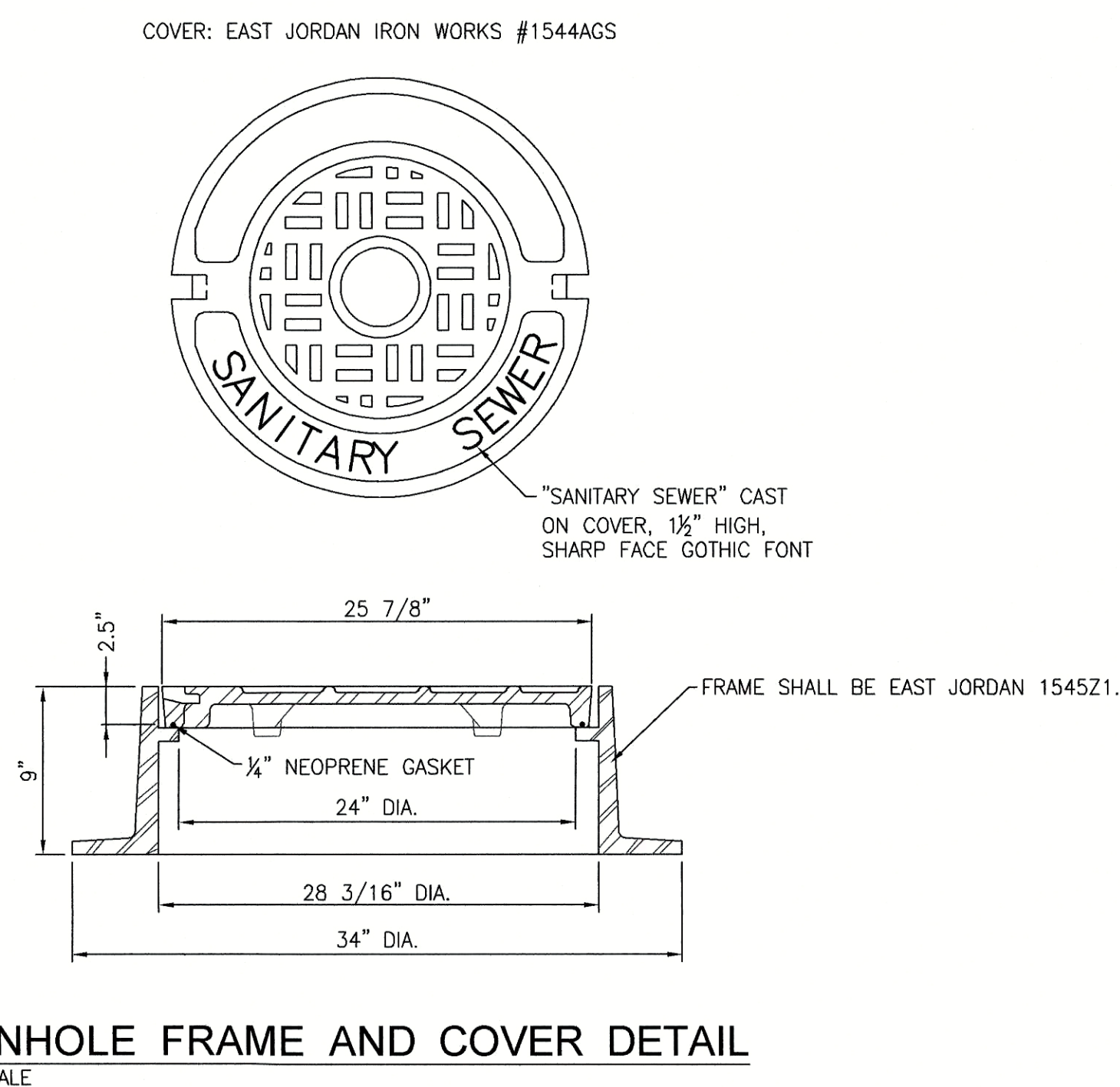
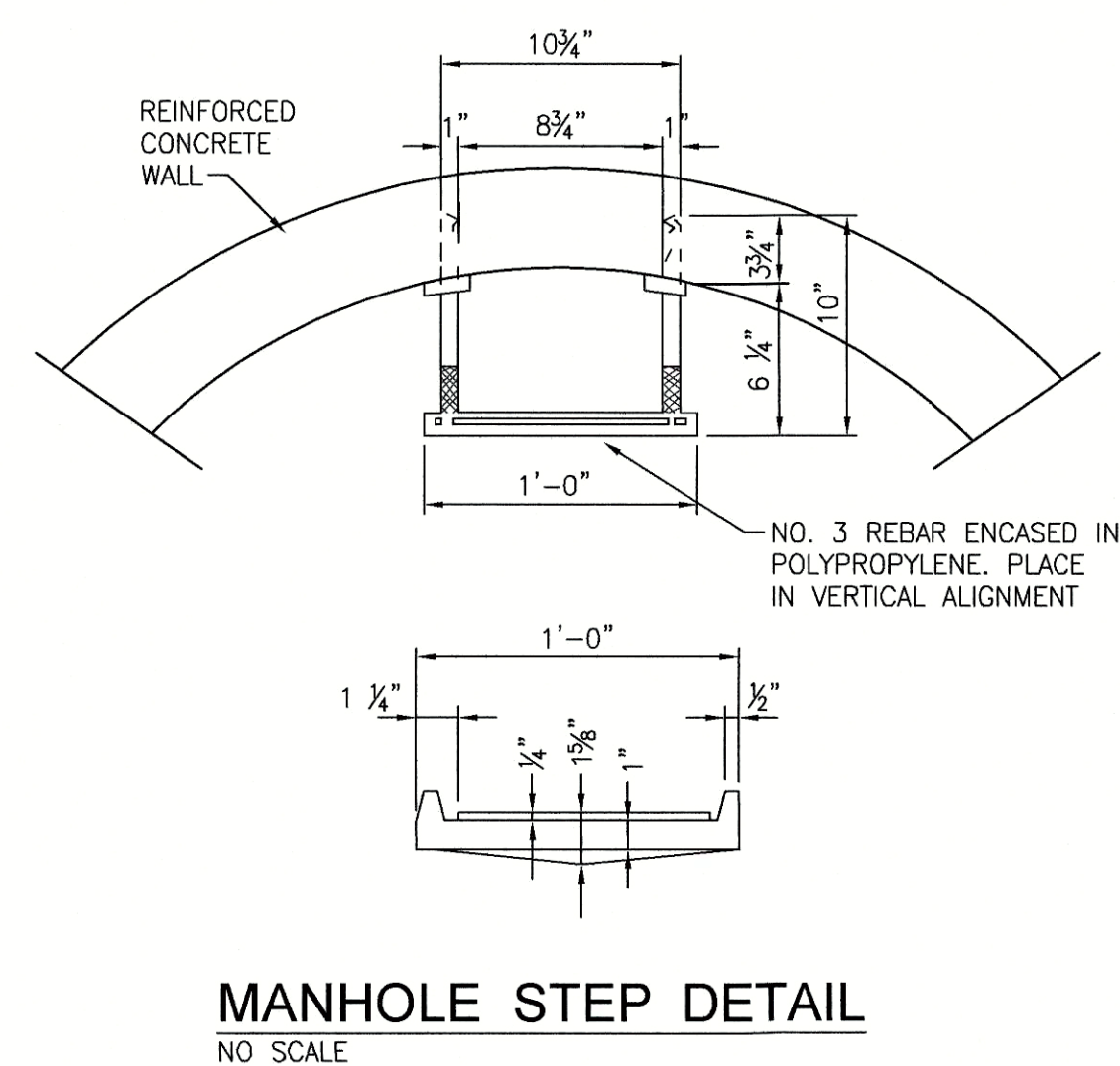
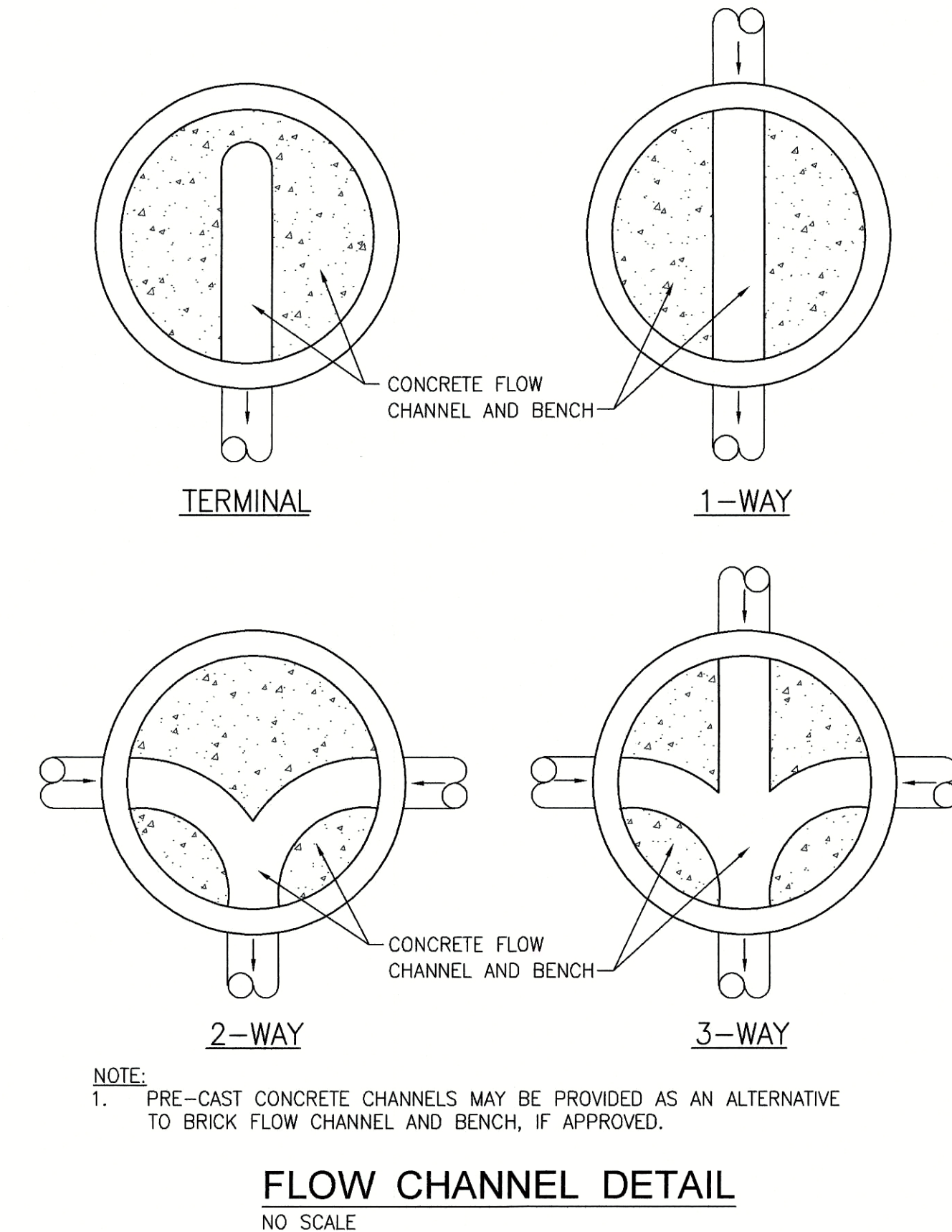
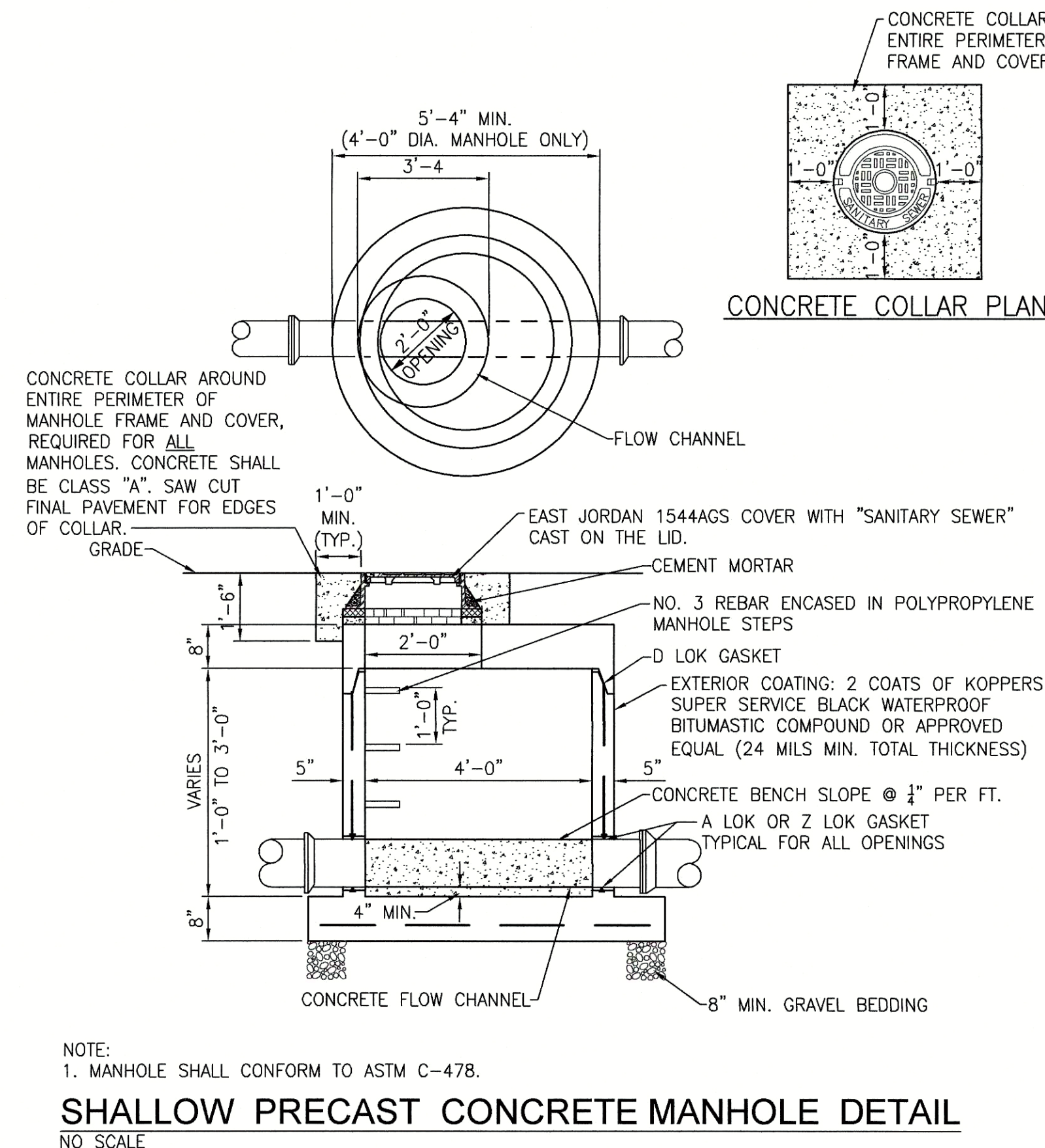
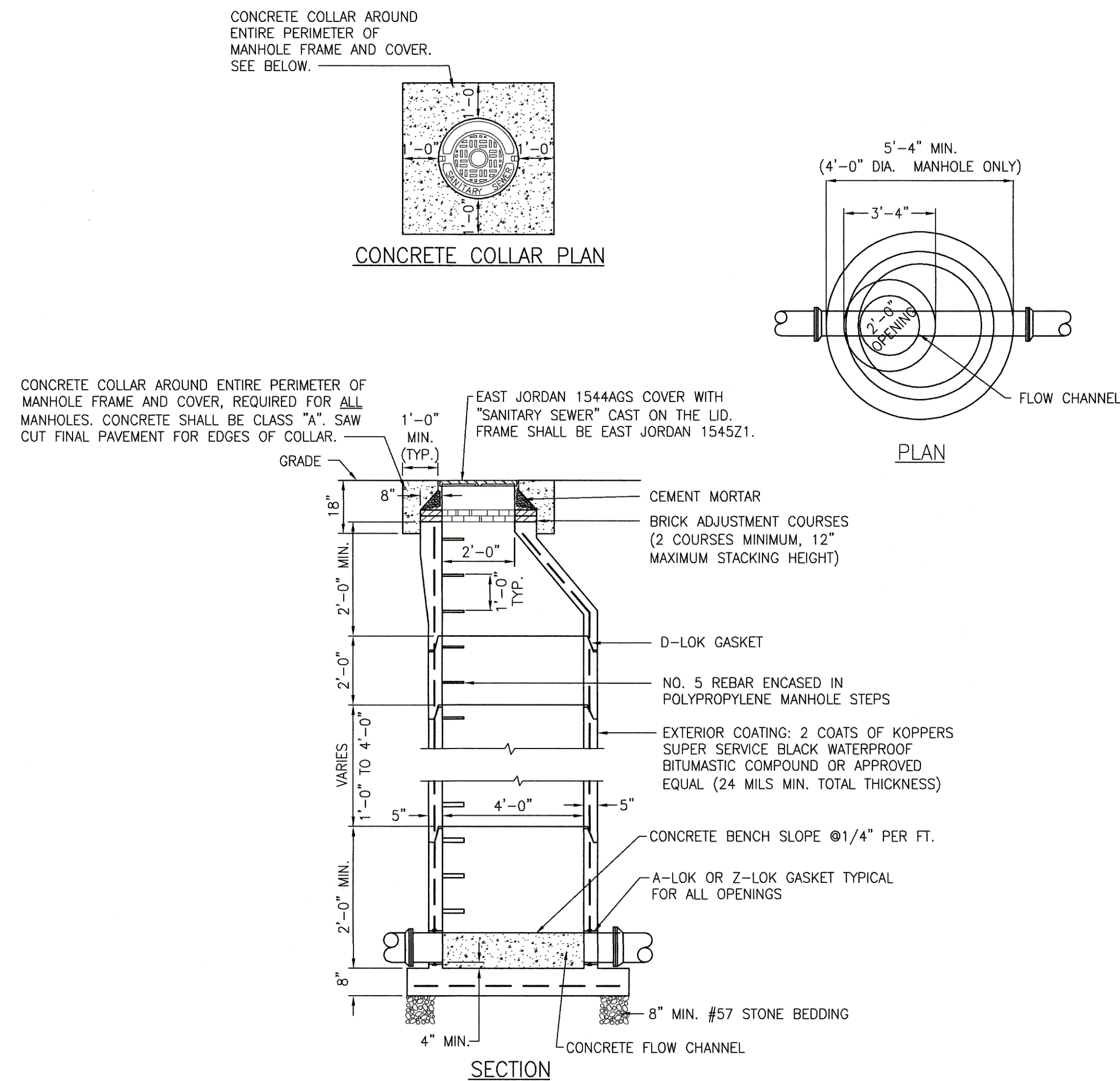
SUSSEX COUNTY, DELAWARE

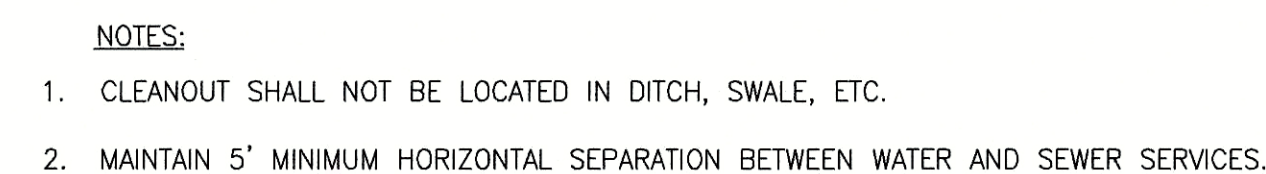
Professional Engineer
No. 8195
7/7/22

SANITARY
SEWER
PROFILES

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CHECKED BY : VAL.COD	
DATE : JULY 2022	

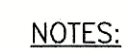
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STANDARD LATERAL CLEANOUT DETAIL

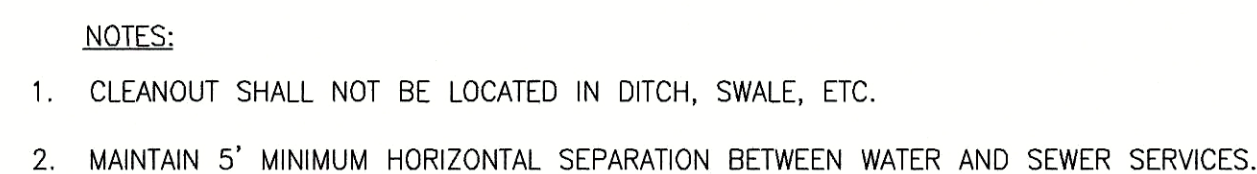
NO SCALE



1. ENCASUREMENT SHALL BE A MINIMUM OF 10 FEET IN LENGTH IN EACH DIRECTION, OR AS DIRECTED BY THE ENGINEER.
2. THE CROSSINGS SHALL BE ARRANGED SUCH THAT THE SEWER JOINTS WILL BE EQUAL DISTANCE AND AS FAR AS POSSIBLE FROM WATER MAIN JOINTS.

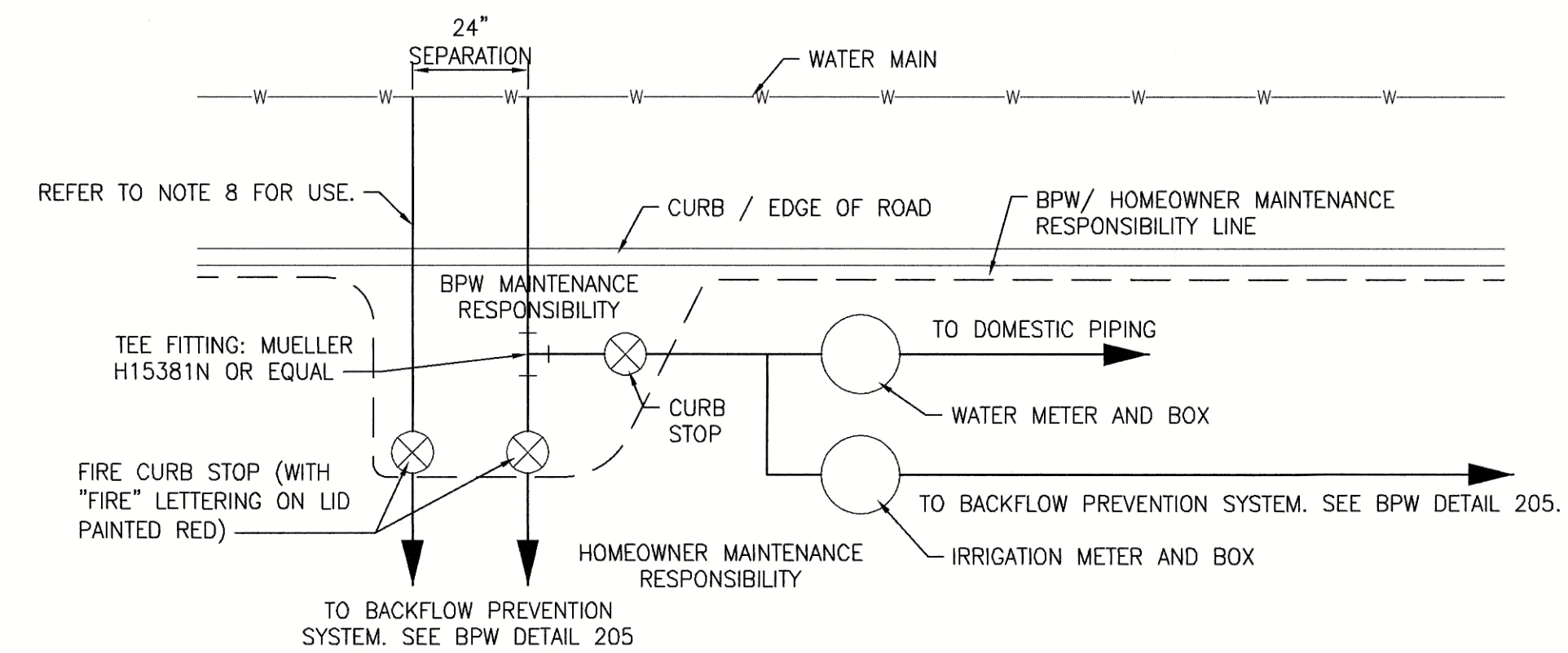
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NO SCALE



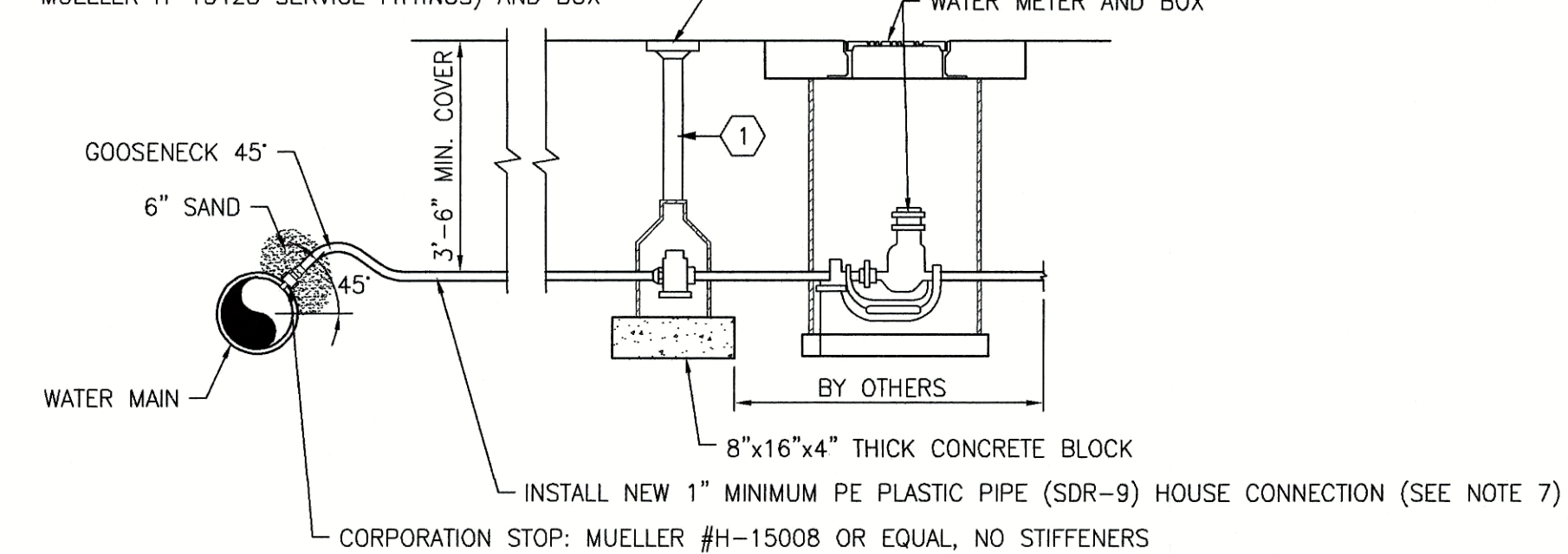
PRIVATE LATERAL CLEANOUT DETAIL

NO SCALE



SCHEMATIC PLAN

REMOVE EXISTING CURB STOP AND BOX AND REPLACE
WITH NEW CURB STOP (MUELLER H-10291 AND
MUELLER H-15428 SERVICE FITTINGS) AND BOX

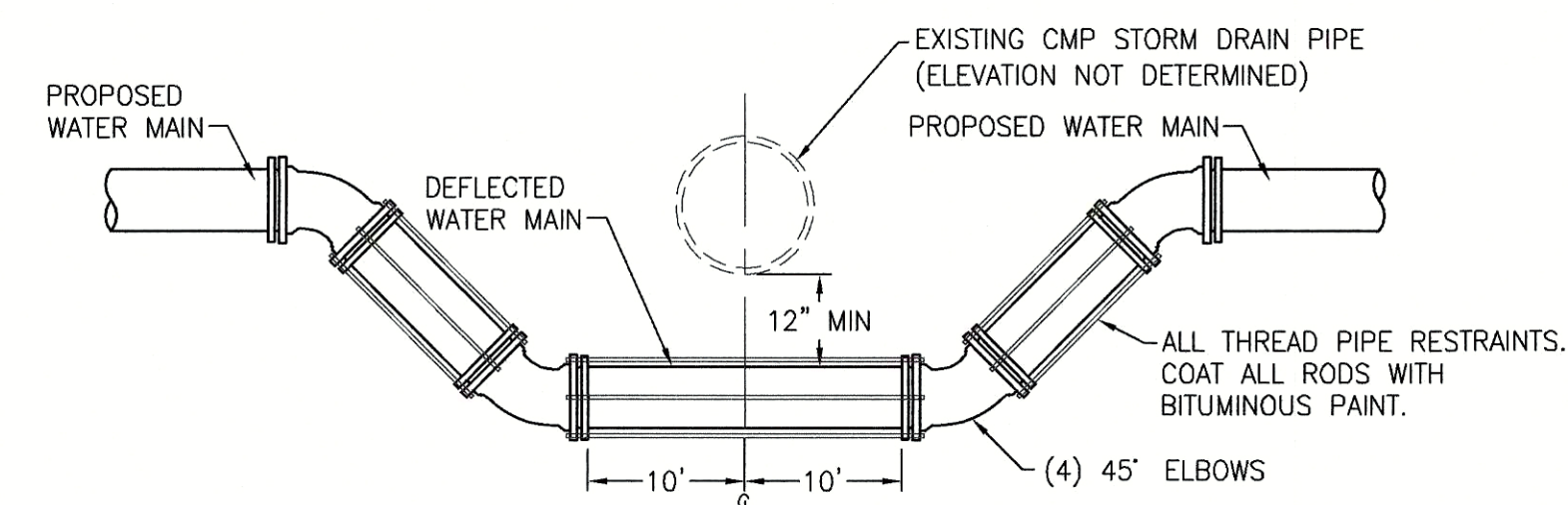
SECTION

NOTES:

1. THE CONTRACTOR SHALL ADJUST CURB STOP DEPTH AS NECESSARY TO MAINTAIN MINIMUM COVER OVER SERVICE PIPE AT SIDEWALK.
2. PVC WATER MAIN REQUIRES SERVICE SADDLE MANUFACTURED BY POWER SEAL, MODEL 3411 OR 3412.
3. CORPORATION STOP SHALL BE ORIENTED AT 45° TO HORIZONTAL AXIS OF PIPE.
4. SPECIAL CARE SHALL BE TAKEN DURING BACKFILL OPERATION TO PREVENT DAMAGE TO PIPE AT CORPORATION STOP.
5. ADJACENT CORPORATION STOP LOCATIONS WITHIN 24" MUST BE STAGGERED ALONG THE PIPE AXIS BY 5'.
6. CORPORATION STOPS SHALL BE LOCATED A MINIMUM OF 24" FROM BELL OF PIPE (START AND END OF BELL) AT JOINT.
7. SERVICE IS TO BE SIZED TO ADEQUATELY PROVIDE FIRE FLOW TO THE SPRINKLER SYSTEM. SERVICE SIZE SHALL BE PROVIDED BY A FIRE SYSTEMS ENGINEER.
8. WHERE AN EXISTING SERVICE IS PRESENTLY INSTALLED, OWNER SHALL INSTALL NEW FIRE SERVICE AT OWNER'S EXPENSE. ALL WORK IS SUBJECT TO INSPECTION BY LEWES BOARD OF PUBLIC WORKS. ANY DEVIATION WILL BE EVALUATED ON A CASE-BY-CASE BASIS.

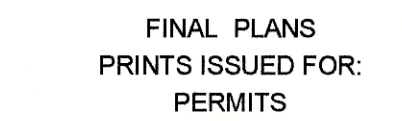
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NO SCALE



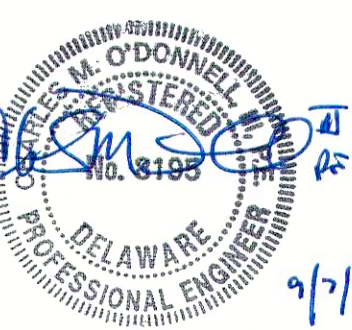
WATER MAIN OFFSET DETAIL

NO SCALE

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**DONOVAN - SMITH
MOBILE HOME PARK
SANITARY SEWER AND WATER
EXTENSIONS
SEDIMENT AND STORMWATER MANAGEMENT PLANS**

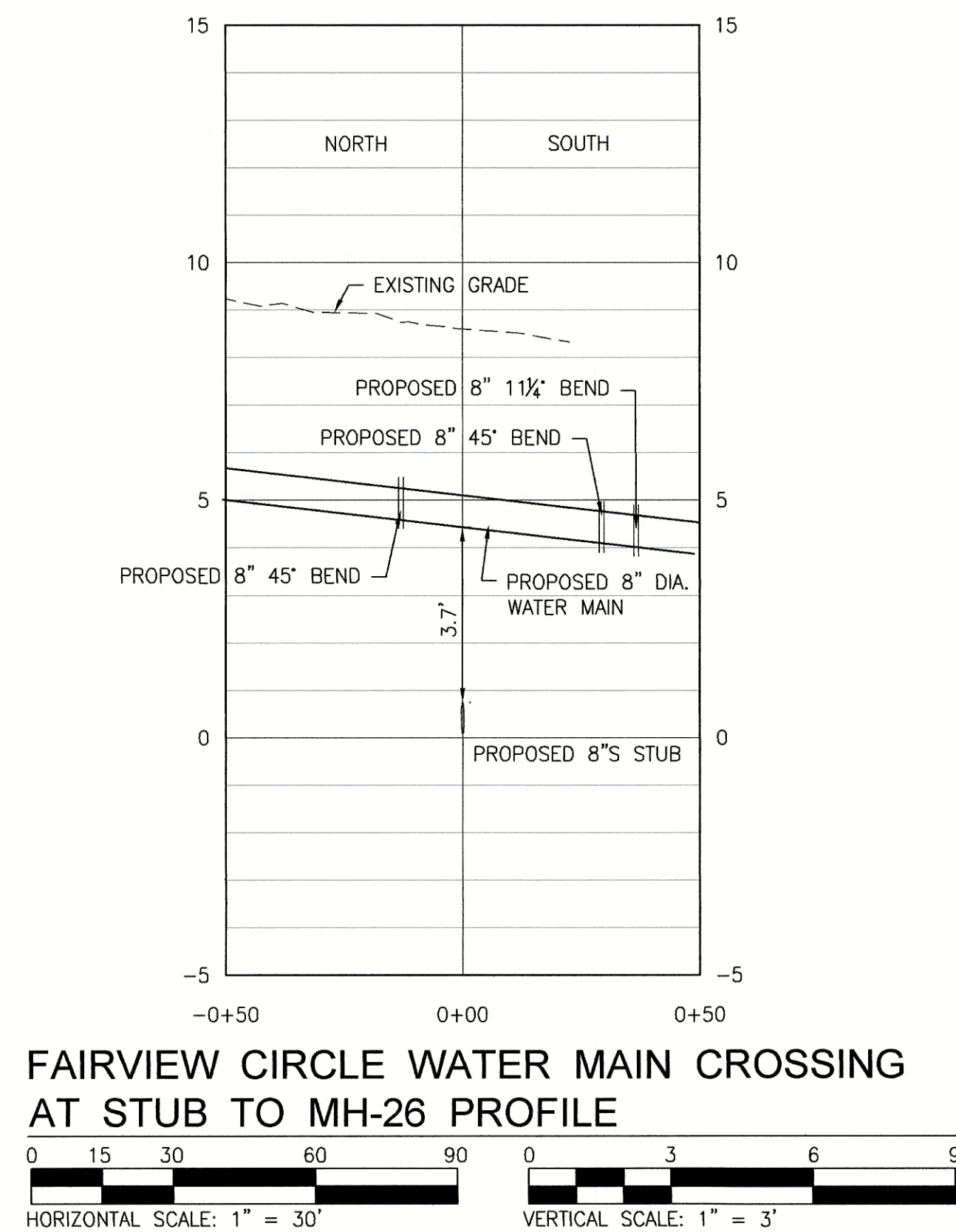
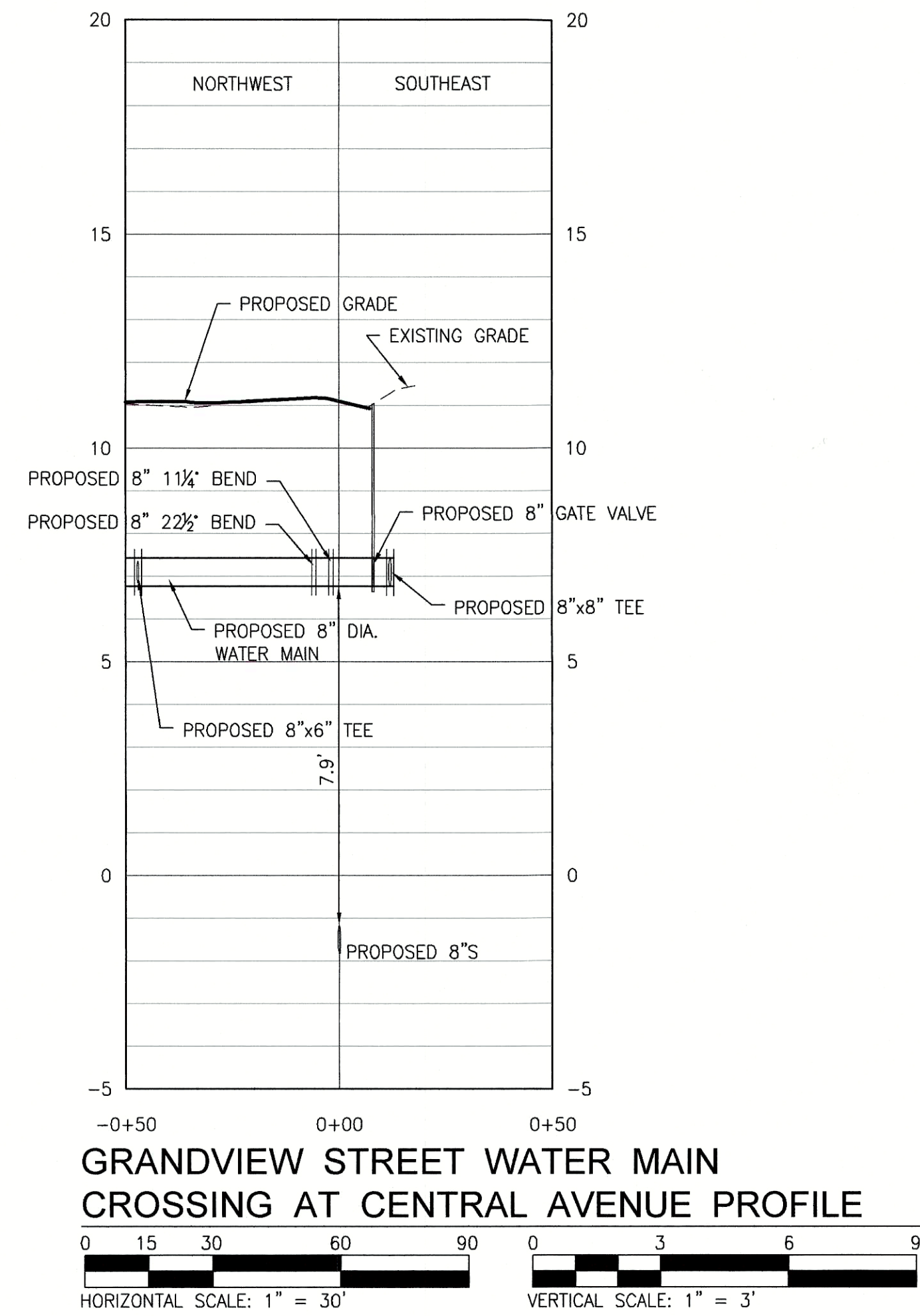
SUSSEX COUNTY, DELAWARE



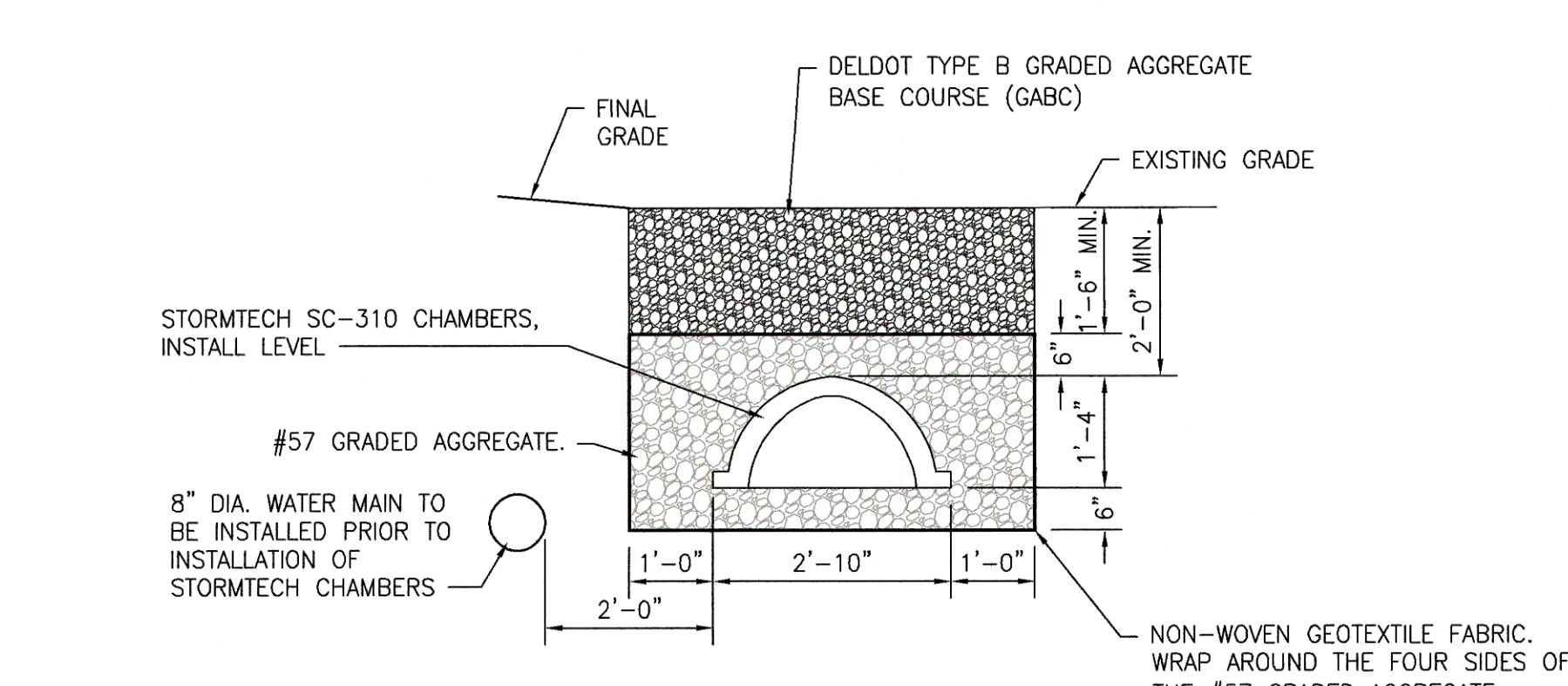
SEWER AND WATER DETAILS

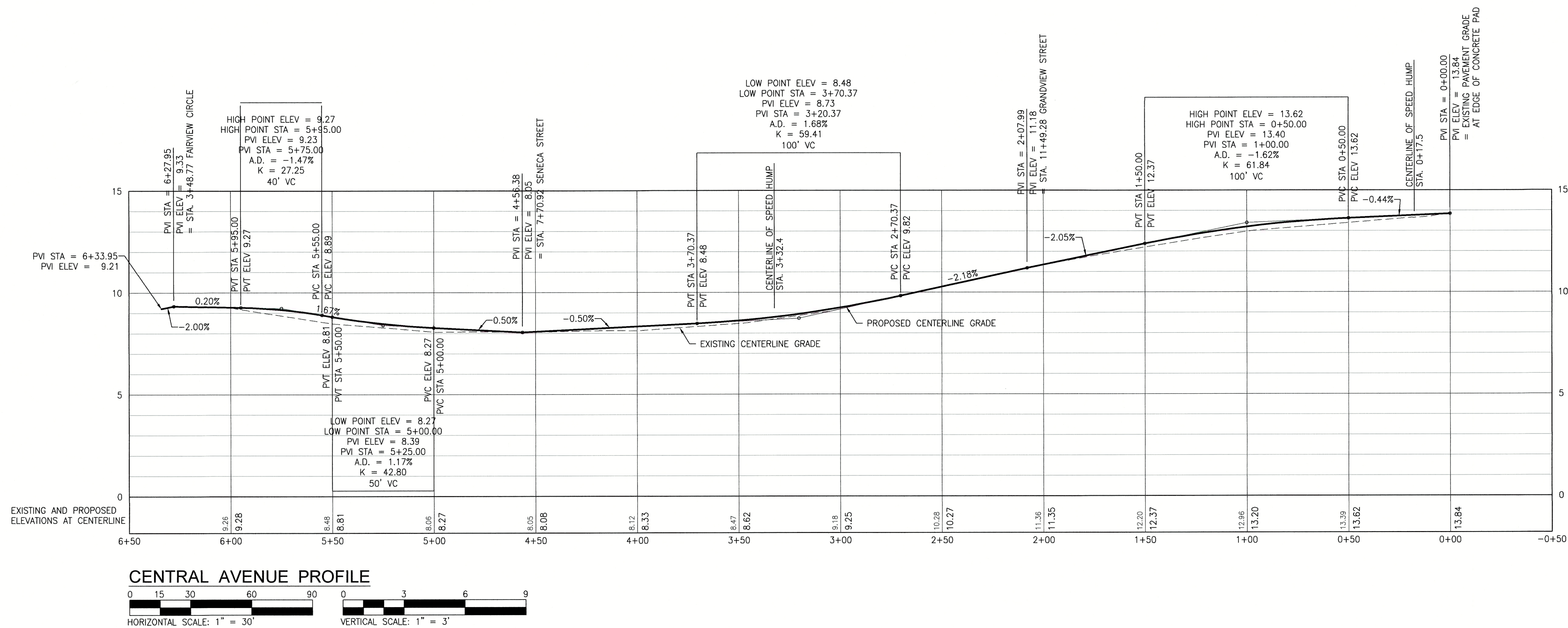
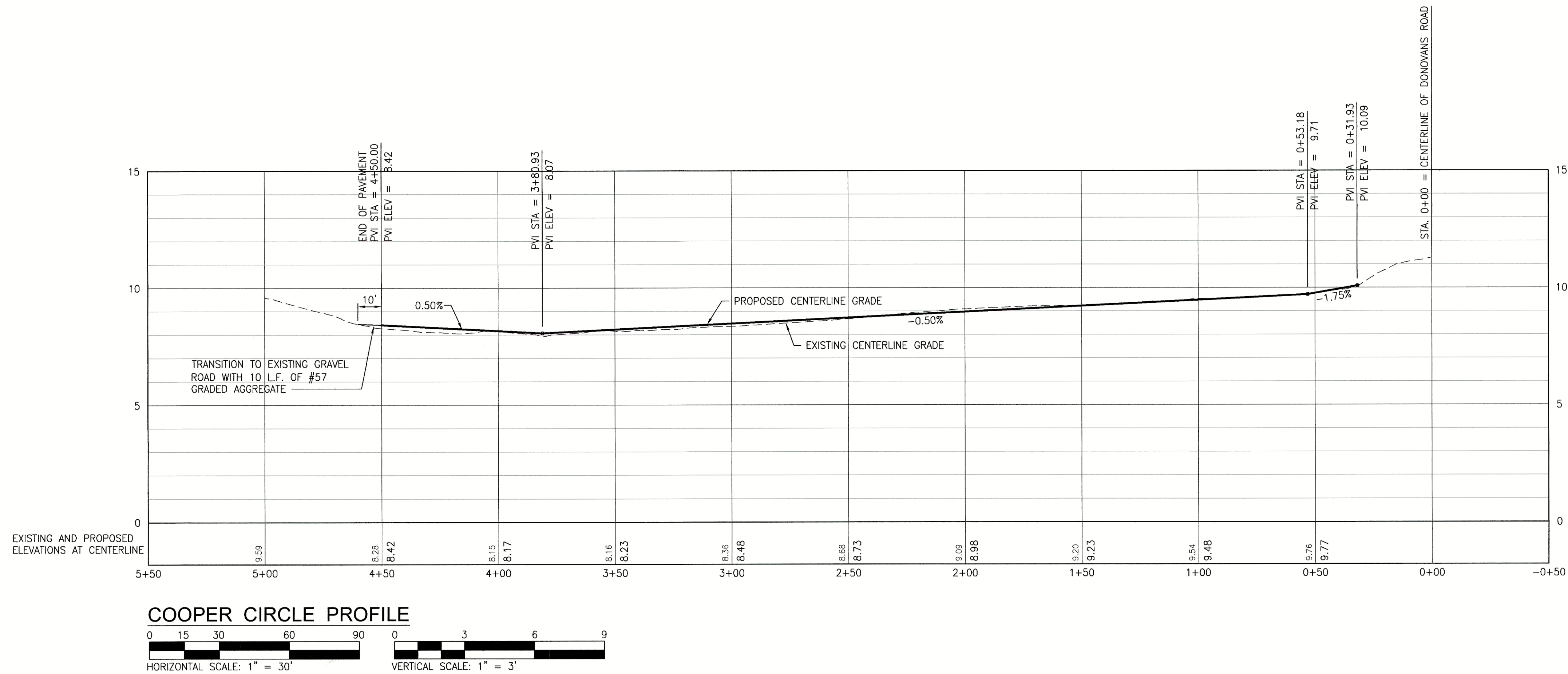
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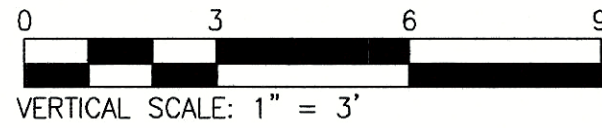
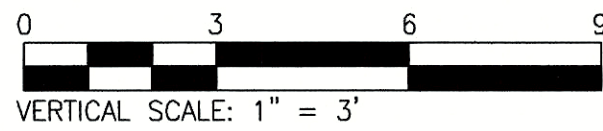
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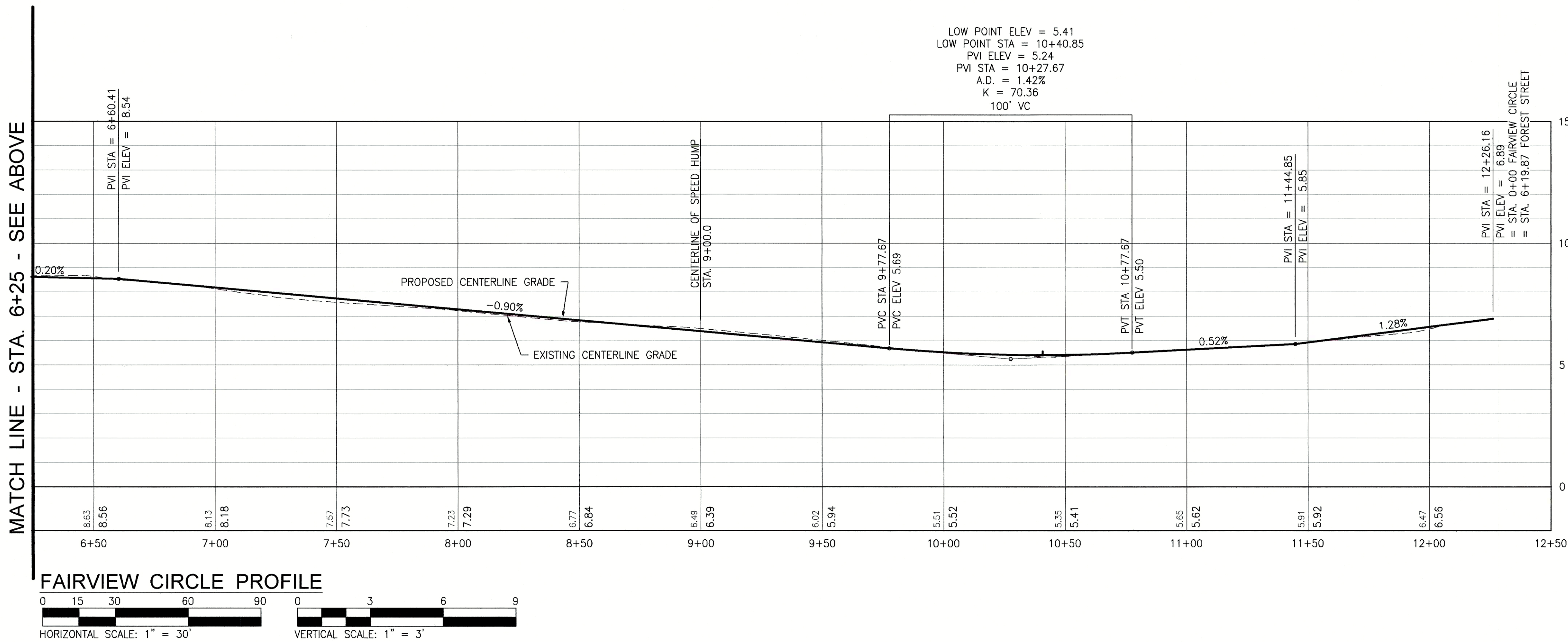
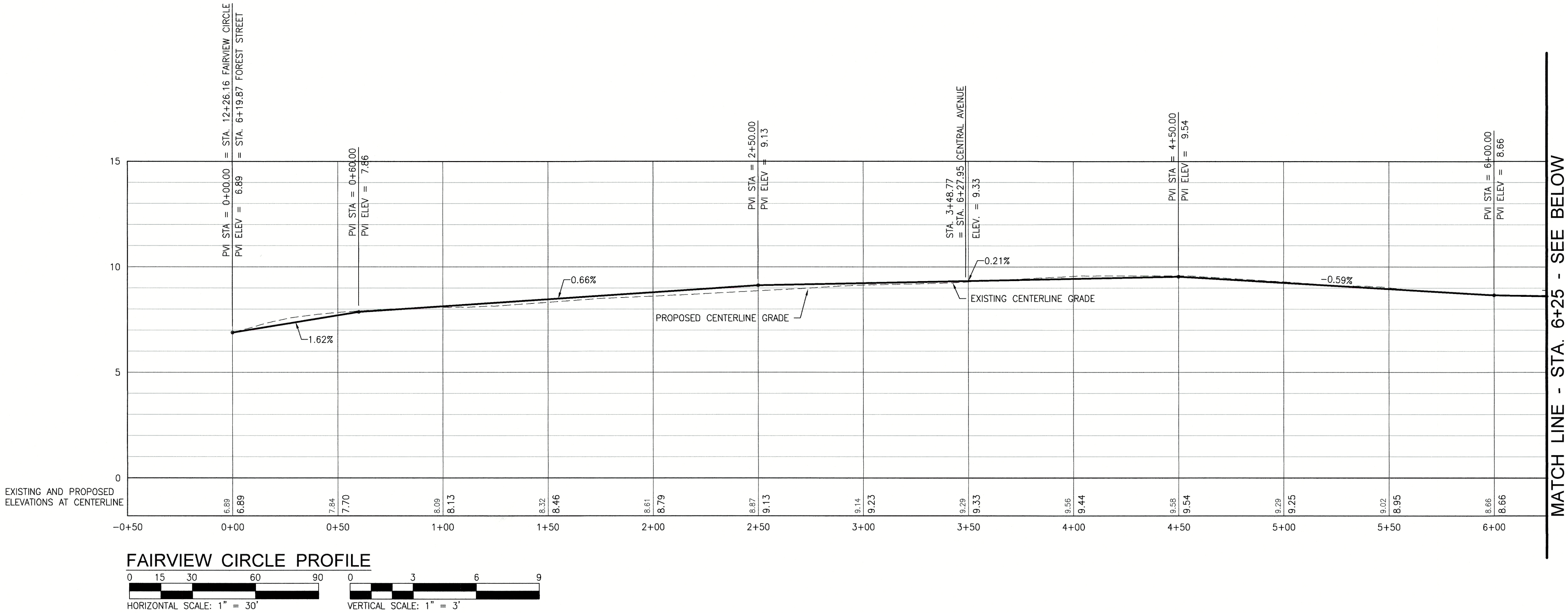
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	.010 INCHES (.25mm)	.014 INCHES (.35mm)	
	PEN-GREEN	PEN-ORANGE	
	.020 INCHES (.50mm)	.027 INCHES (.70mm)	
	PEN-BLUE	PEN-MAGENTA	
	.020 INCHES (.50mm)	.027 INCHES (.70mm)	
	PEN-WHITE		
			.030 INCHES (1.00mm)







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CENTRAL AVENUE FINISHED GRADE SCHEDULE											
	Control		Left Side			Control			Right Side		
	Left Side					Right Side					
Station	Slope Up (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)	Proposed Elevation at Road Centerline	Slope Up (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)
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0+50	0.0075	25.17	13.43	13.43	0.00	13.62	0.0201	12.92	13.27	13.36	0.09
1+00	0.0200	12.00	12.97	12.96	-0.01	13.20	0.0200	12.00	12.67	12.96	0.29
1+12.23	0.0200	12.00	12.83	12.79	-0.04	13.03	0.0200	12.00	12.46	12.79	0.33
1+50	0.0202	11.41	12.12	12.14	0.02	12.37	0.0200	12.00	11.97	12.13	0.16
1+62.43	0.0196	11.24	11.86	11.90	0.04	12.12	0.0200	12.00	11.82	11.88	0.06
1+76.40	0.0200	11.02	11.53	11.61	0.08	11.83	0.0200	12.00	11.90	11.59	-0.31
2+00	0.0196	10.69	11.10	11.14	0.04	11.35	N/A	N/A	N/A	N/A	N/A
2+07.99	0.0198	10.58	11.00	10.97	-0.03	11.18	N/A	N/A	N/A	N/A	N/A
2+31.41	0.0195	10.27	10.54	10.48	-0.06	10.68	-0.0072	18.00	10.82	10.81	-0.01
2+37.79	0.0196	10.20	10.43	10.33	-0.10	10.53	N/A	18.00	10.71	10.70	-0.01
2+45.11	0.0198	10.09	10.20	10.18	-0.02	10.38	N/A	20.00	10.69	10.58	-0.11
2+53.96	0.0200	10.00	10.03	9.98	-0.05	10.18	N/A	20.00	10.54	10.66	0.12
2+70.37	0.0200	10.00	9.85	9.62	-0.23	9.82	N/A	20.00	10.29	10.02	-0.27
3+00	0.0200	10.00	8.97	9.05	0.08	9.25	-0.0110	20.00	9.79	9.47	-0.32
3+08.21	0.0200	10.00	8.84	8.92	0.08	9.12	0.0200	10.00	9.17	8.92	-0.25
3+50	0.0200	10.00	8.30	8.42	0.12	8.62	0.0200	10.00	8.49	8.42	-0.07
3+70.37	0.0200	10.00	8.18	8.28	0.10	8.48	0.0200	10.00	8.34	8.28	-0.06
3+71.74	0.0200	10.00	8.18	8.27	0.09	8.47	0.0200	10.00	8.32	8.27	-0.05
3+77.25	0.0200	10.00	8.16	8.25	0.09	8.45	0.0200	10.00	8.26	8.25	-0.01
4+00	0.0200	10.00	7.95	8.13	0.18	8.33	0.0200	10.00	7.96	8.13	0.17
4+12.92	0.0200	10.00	8.04	8.07	0.03	8.27	0.0199	10.03	7.80	8.07	0.27
4+50	0.0200	10.00	7.84	7.88	0.04	8.08	N/A	N/A	N/A	N/A	N/A
4+56.38	0.0200	10.00	7.82	7.85	0.03	8.05	N/A	N/A	N/A	N/A	N/A
4+82.32	0.0200	10.00	7.89	7.98	0.09	8.18	0.0202	10.90	7.68	7.96	0.28
4+87.32	0.0200	10.00	7.80	8.00	0.20	8.20	0.0200	10.00	7.71	8.00	0.29
5+00	0.0200	10.00	7.87	8.07	0.20	8.27	0.0200	10.00	7.81	8.07	0.26
5+29.07	0.0200	10.00	8.01	8.31	0.30	8.51	0.0200	10.00	8.02	8.31	0.29
5+50	0.0200	10.00	8.13	8.61	0.48	8.81	0.0200	10.00	8.18	8.61	0.43
5+81.45	0.0200	10.00	8.92	9.01	0.09	9.21	0.0200	10.00	8.78	9.01	0.23

SENECA STREET FINISHED GRADE SCHEDULE											
	Control		Left Side				Control		Right Side		
	Left Side						Right Side				
Station	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)	Proposed Elevation at Road Centerline	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)
0+36.72	0.0200	6.00	6.79	6.69	-0.10	6.81	N/A	N/A	N/A	N/A	N/A
0+45.23	0.0200	6.00	6.85	6.78	-0.07	6.90	0.0200	6.00	6.28	6.78	0.50
0+50	0.0200	6.00	6.89	6.83	-0.06	6.95	0.0200	6.00	6.33	6.83	0.50
1+00	0.0200	6.00	7.27	7.21	-0.06	7.33	0.0200	6.00	6.70	7.21	0.51
1+50	0.0200	6.00	7.60	7.58	-0.02	7.70	0.0200	6.00	7.04	7.58	0.54
2+00	0.0200	6.00	7.76	7.75	-0.01	7.87	0.0200	6.00	7.30	7.75	0.45
2+50	0.0200	6.00	7.78	7.91*	0.40	8.03*	0.0200	6.00	7.46	7.91*	0.72
3+00	0.0300	6.00	7.87	8.02	0.15	8.20	0.0300	6.00	7.69	8.02	0.33
3+50	0.0200	6.00	8.24	8.24	0.00	8.36	0.0200	6.00	8.07	8.24	0.17
4+00	0.0200	6.00	8.50	8.41	-0.09	8.53	0.0200	6.00	8.33	8.41	0.08
4+50	0.0200	6.00	8.56	8.57	0.01	8.69	0.0200	6.00	8.38	8.57	0.19
4+62.38	N/A	17.00	8.62	8.61	-0.01	8.73	0.0200	6.00	8.42	8.61	0.19
5+00	N/A	17.00	8.76	8.75	-0.01	8.86	0.0200	6.00	8.56	8.74	0.18
5+50	N/A	17.00	9.01	8.93	-0.08	9.03	0.0200	6.00	8.81	8.91	0.10
6+00	N/A	17.00	9.14	9.12	-0.02	9.19	0.0200	6.00	8.85	9.07	0.22
6+06.38	N/A	17.00	9.11	9.14	0.03	9.15	0.0200	6.00	8.84	9.03	0.19
6+50	0.0200	6.00	8.72	8.74	0.02	8.86	0.0200	6.00	8.74	8.74	0.00
7+00	0.0200	6.00	8.29	8.40	0.11	8.52	0.0200	6.00	8.26	8.40	0.14
7+29.68	0.0200	6.00	7.92	8.21	0.29	8.33	0.0700	6.00	7.79	7.91	0.12
7+31.96	0.0200	6.00	7.90	8.19	0.29	8.31	0.0632	6.17	7.79	7.92	0.13
7+36.45	0.0212	6.14	7.84	8.15	0.31	8.28	0.0460	7.61	7.75	7.93	0.18

PLOT CODE	
PEN-RED	PEN-BLUE
.007 INCHES (.15mm)	.020 INCHES (.50mm)
PEN-YELLOW	PEN-MAGENTA
.007 INCHES (.15mm)	.027 INCHES (.70mm)
PEN-GREEN	PEN-WHITE
.010 INCHES (.25mm)	.039 INCHES (1.00mm)
PEN-CYAN	
.014 INCHES (.35mm)	

Forest Street Finished Grade Schedule											
	Control		Left Side				Control		Right Side		
	Left Side						Right Side				
Station	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)	Proposed Elevation at Road Centerline	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)
0+23.92	N/A	N/A	N/A	N/A	N/A	7.32	0.0187	12.31	7.18	7.09	-0.09
0+35.74	0.0092	7.59	7.13	7.19	0.06	7.26	0.0204	8.82	7.25	7.08	-0.17
0+52.97	0.0200	6.00	7.11	7.06	-0.05	7.18	0.0200	6.00	7.25	7.06	-0.19
0+82.53	0.0200	6.00	7.01	6.91	-0.10	7.03	0.0200	6.00	6.91	6.91	0.00
1+00.57	0.0200	6.00	6.93	6.82	-0.11	6.94	0.0200	6.00	6.84	6.82	-0.02
1+30.26	0.0200	6.00	6.55	6.67	0.12	6.79	0.0200	6.00	6.59	6.67	0.08
1+48.24	0.0200	6.00	6.44	6.58	0.14	6.70	0.0200	6.00	6.50	6.58	0.08
1+83.25	0.0200	6.00	6.49	6.43	-0.06	6.55	0.0200	6.00	6.29	6.43	0.14
2+00	0.0132	7.59	6.48	6.40	-0.08	6.50	0.0200	6.00	6.24	6.38	0.14
2+50	N/A	N/A	N/A	N/A	N/A	6.41	0.0200	6.00	6.22	6.29	0.07
2+66.15	N/A	N/A	N/A	N/A	N/A	6.40	0.0200	6.00	6.24	6.28	0.04
2+74.19	0.0200	6.00	6.29	6.29	0.00	6.41	0.0200	6.00	6.24	6.29	0.05
2+81.49	0.0200	6.00	6.29	6.29	0.00	6.41	0.0200	6.00	6.21	6.29	0.08
2+95.59	0.0200	6.00	6.34	6.31	-0.03	6.43	0.0200	6.00	6.14	6.31	0.17
3+48.24	0.0200	6.00	6.51	6.43	-0.08	6.55	0.0200	6.00	6.50	6.43	-0.07
4+00	0.0200	6.00	6.72	6.61	-0.11	6.73	0.0200	6.00	6.65	6.61	-0.04
4+50	0.0200	6.00	6.76	6.65	-0.11	6.77	0.0200	6.00	6.75	6.65	-0.10
5+00	0.0200	6.00	6.61	6.69	0.08	6.81	0.0200	6.00	6.89	6.69	-0.20
5+32.29	0.0200	6.00	6.65	6.71	0.06	6.83	0.0200	6.00	6.84	6.71	-0.13
5+50	0.0200	6.00	6.80	6.72	-0.08	6.84	0.0200	6.00	6.78	6.72	-0.06
5+68.72	0.0200	6.00	6.76	6.74	-0.02	6.86	0.0200	6.00	6.77	6.74	-0.03

FAIRVIEW CIRCLE FINISHED GRADE SCHEDULE											
	Control		Left Side				Control		Right Side		
	Left Side						Right Side				
Station	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)	Proposed Elevation at Road Centerline	Slope Used (feet/foot)	Road Centerline to Edge of Proposed Pavement (feet)	Existing Grade at Edge of Proposed Pavement	Proposed Elevation of Edge of Proposed Pavement	Edge of Proposed Pavement Elevation Difference (feet)
0+39.09	0.0203	6.40	7.88	7.40	-0.48	7.53	0.0200	6.00	7.53	7.41	-0.12
0+50	0.0199	6.03	7.99	7.58	-0.41	7.70	0.0200	6.00	7.61	7.58	-0.03
0+54.25	0.0200	6.00	8.00	7.65	-0.35	7.77	0.0200	6.00	7.64	7.65	0.01
0+60	0.0200	6.00	8.06	7.74	-0.32	7.86	0.0200	6.00	8.01	7.74	-0.27
1+00	0.0200	6.00	8.06	8.01	0.05	8.13	0.0200	6.00	8.01	8.01	0.00
1+14.63	0.0200	6.00	8.01	8.11	0.33	8.23	0.0200	6.00	8.10	8.11	0.01
1+50	0.0200	6.00	8.10	8.34	0.57	8.46	0.0200	6.00	8.41	8.34	-0.07
2+00	0.0200	6.00	8.45	8.67	0.39	8.79	0.0200	6.00	8.68	8.67	-0.01
2+25.63	0.0200	6.00	8.66	8.84	0.35	8.96	0.0200	6.00	8.76	8.84	0.08
2+50	0.0200	6.00	8.67	9.01	0.43	9.13	0.0200	6.00	9.01	9.01	0.00
2+97.79	0.0200	6.00	9.12	9.10	-0.01	9.22	0.0200	6.00	9.11	9.10	-0.01
3+00	0.0200	6.00	9.14	9.11	-0.03	9.23	0.0200	6.00	9.11	9.11	0.00
3+50	N/A	N/A	N/A	N/A	N/A	9.33	0.0200	6.00	9.05	9.21	0.16
3+90.46	0.0208	8.16	9.41	9.25	-0.16	9.42	0.0200	6.00	9.34	9.30	-0.04
4+00	0.0233	6.44	9.49	9.29	-0.20	9.44	0.0200	6.00	9.39	9.32	-0.07
4+08.76	0.0200	6.00	9.49	9.33	-0.16	9.45	0.0200	6.00	9.46	9.33	-0.13
4+10.85	0.0200	6.00	9.49	9.34	-0.15	9.46	0.0200	6.00	9.47	9.34	-0.13
4+50	0.0200	6.00	9.44	9.42	-0.02	9.54	0.0200	6.00	9.60	9.42	-0.18
5+00	0.0200	6.00	9.17	9.13	-0.04	9.25	0.0200	6.00	9.18	9.13	-0.05
5+02.47	0.0200	6.00	9.20	9.12	-0.08	9.24	0.0200	6.00	9.17	9.12	-0.05
5+50	0.0200	6.00	8.82	8.84	0.02	8.96	0.0200	6.00	9.10	8.84	-0.26
5+74.22	0.0200	6.00	8.48	8.69	0.21	8.81	0.0200	6.00	8.81	8.69	-0.12
6+00	0.0200	6.00	8.33	8.54	0.21	8.66	-0.0200	6.00	8.79	8.78	-0.01
6+10.44	0.0200	6.00	8.30	8.52	0.22	8.64	-0.0200	6.00	8.81	8.76	-0.05
6+35.30	0.0200	6.00	8.26	8.47	0.21	8.59	-0.0200	6.00	8.76	8.71	-0.05
6+50	0.0200	6.00	8.23	8.44	0.21	8.56	-0.0200	6.00	8.75	8.68	-0.07
6+58.24	0.0200	6.00	8.11	8.42	0.31	8.54	-0.0200	6.00	8.64	8.66	0.02
7+00	0.0200	6.00	8.04	8.06	0.02	8.18	0.0200	6.00	8.09	8.06	-0.03
7+30.26	0.0200	6.00	7.48	7.79	0.31	7.91	0.0200	6.00	7.75	7.79	0.04
7+50	0.0200	6.00	7.36	7.61	0.25	7.73	0.0200	6.00	7.36	7.61	0.25
7+95.94	0.0200	16.00	7.05	7.00	-0.05	7.32	0.0200	6.00	7.28	7.20	-0.08
8+35.94	0.0200	16.00	6.47	6.64	0.17	6.96	0.0200	6.00	7.00	6.84	-0.16

[illegible]

