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SUBMITTAL

☐ PRELIMINARY

☐ APPROVAL

☒ BIDDING

☐ CONSTRUCTION

☐ REVISION

☐ RECORD

SET NUMBER

Dewberry Engineers Inc.
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SEAL



KEY PLAN

SCALE

AS NOTED

REVISIONS

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DATE APRIL, 2022

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COVER SHEET

PROJECT NO. 50083060

G-001

SHEET NO. 0 OF ---

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ALL WORK SHALL BE COORDINATED WITH THE HALIFAX COUNTY SERVICE AUTHORITY.

2. CONTRACTOR SHALL NOTIFY THE TOWN OF SOUTH BOSTON – CW CROWDER – PRIOR TO ANY CONSTRUCTION ON STREET RIGHT-OF-WAYS (PHONE NO. 434-575-4261). ALL WORK SHALL ADHERE TO VIRGINIA DEPARTMENT OF TRANSPORTATION STANDARDS.

3. ANY CONSTRUCTION WITHIN THE VIRGINIA DEPARTMENT OF TRANSPORTATION'S RIGHTS-OF-WAY ARE TO BE IN ACCORDANCE WITH THE STATE'S STANDARDS AND SPECIFICATIONS REGARDING MATERIALS, INSTALLATION, AND TESTING, UNLESS NOTED OTHERWISE IN THE CONTRACT DRAWINGS AND TECHNICAL SPECIFICATIONS, EXCEPT THE METHOD OF PAYMENT WHICH WILL BE AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS AND CONTRACT DOCUMENTS. ANY CONSTRUCTION WITHIN THE VDOT RIGHTS-OF-WAYS AND AT ENTRANCE TO VDOT RIGHT-OF-WAYS ARE TO BE SIGNED IN ACCORDANCE WITH THE VIRGINIA WORK AREA PROTECTION MANUAL STANDARDS AND GUIDELINE.

4. CONTRACTOR SHALL FIELD VERIFY VERTICAL AND HORIZONTAL LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY. CONTRACTOR SHALL CONTACT MISS UTILITY (811) 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.

5. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO VERIFY LOCATION OF AND PREVENT DISTURBANCE OF ANY EXISTING UTILITIES IN WORK AREA, AND PROVIDE IMMEDIATE TEMPORARY SERVICE TO ANY DAMAGED UTILITIES.

6. WHEN WORKING ADJACENT TO EXISTING STRUCTURES, POLES, ETC., CONTRACTOR SHALL USE WHATEVER METHODS THAT ARE NECESSARY TO PROTECT STRUCTURES FROM DAMAGE. REPLACEMENT OF DAMAGED STRUCTURES SHALL BE AT THE CONTRACTOR'S EXPENSE.

7. DRIVEWAYS, FENCES, MAILBOXES, ROAD SIGNS, STEPS, SIDEWALKS, ETC., THAT INTERFERE WITH CONSTRUCTION ARE TO BE RESTORED TO ORIGINAL CONDITION.

8. PAVED DRIVEWAYS, PARKING LOTS, AND PRIVATE ROADS SHALL BE OPEN-CUT UNLESS SHOWN OTHERWISE.

9. ALL DISTURBED PAVEMENT AND GRAVEL DRIVES ARE TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.

10. CONTRACTOR SHALL NOT DISTURB ANY TREES, SHRUBS, OR LANDSCAPING OUTSIDE THE CONSTRUCTION LIMITS. CONTRACTOR SHALL USE EXTREME CAUTION TO PREVENT DISTURBANCE TO THE TREES, SHRUBS, ETC., WHICH ARE IN THE CONSTRUCTION LIMITS AND NOTED TO REMAIN.

11. EROSION AND SEDIMENT CONTROL NOTES:

- A) ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL CONFORM TO THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND THE VDOT ROAD AND BRIDGE STANDARDS MANUAL.
- B) CONTRACTOR SHALL INSTALL SILT BARRIERS, INLET PROTECTION, CONSTRUCTION ENTRANCES AT POINTS OF INGRESS AND EGRESS TO PUBLIC RIGHT-OF-WAY, STABILIZE DISTURBED AREAS, AND PROVIDE OTHER MEASURES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED.
- C) CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT TRACKING ON EXISTING PAVEMENTS.
- D) CONTRACTOR SHALL INSTALL GRAVEL CONSTRUCTION ROAD STABILIZATION OF ADEQUATE AREA TO ACCOMMODATE CONSTRUCTION VEHICLE PARKING, MATERIAL STORAGE, ETC. AT A LOCATION CONVENIENT TO THE INDIVIDUAL CONSTRUCTION AREAS AND CONSISTENT WITH THE CONSTRUCTION SEQUENCES.
- E) THE LOCATIONS OF SEDIMENT AND EROSION CONTROL MEASURES SHOWN ON PLANS ARE APPROXIMATE, THE EXACT LOCATION MUST BE DETERMINED IN THE FIELD.
- F) A ROCK CHECK DAM SHALL BE INSTALLED BELOW THE DISTURBED AREA WITHIN DITCH LINES AND/OR WHERE DITCH LINES OUTLET TO UNDISTURBED AREAS.
- G) SILT FENCE SHALL PROVIDED BELOW DISTURBED AREAS FOR ALL LOCATIONS WHERE DISTURBED AREA DRAINS TOWARD PROPERTY OWNER BY OTHERS AND/OR TOWARD STREAMS.

12. ALL DISTURBED AREAS ARE TO BE MULCHED AND SEEDED PER THE SPECIFICATIONS WITHIN 7 DAYS OF ACHIEVING FINAL GRADES.

13. IF CONSTRUCTION SCHEDULE DOES NOT ALLOW PERMANENT SEEDING IN THE DATES SHOWN IN THE SPECIFICATIONS OR IF CONSTRUCTION IS TEMPORARILY HALTED FOR A PERIOD OF 21 DAYS OR LONGER DUE TO WEATHER, WINTER SHUT DOWN, ETC., CONTRACTOR SHALL INSTALL TEMPORARY SEEDING WITHIN 7 DAYS. WHEN PERMANENT SEEDING DATES CAN BE ACCOMMODATED, THE CONTRACTOR SHALL RESEED WITH PERMANENT SEEDING MIXTURES. ALL SEEDED AREAS, WHICH DO NOT PRODUCE A THICK, HEALTHY, DESIRABLE VEGETATIVE COVER, ARE TO BE RESEED AND MULCHED AS NECESSARY UNTIL ACCEPTABLE VEGETATIVE COVER IS ESTABLISHED. PRIOR TO RESEEDING WITH PERMANENT VEGETATION, ALL ESTABLISHED TEMPORARY VEGETATION IS TO BE REMOVED.

14. TOPSOIL IS TO BE STOCKPILED AND RE-SPREAD OVER DISTURBED AREAS TO BE SEEDED PER THE TECHNICAL SPECIFICATIONS. STOCKPILES SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND SEDIMENT AND EROSION CONTROLS DEVICES/MEASURES SHALL BE INSTALLED AS NECESSARY. THESE STOCKPILES ARE TO BE LOCATED IN AREAS THAT MINIMIZE DISTURBANCE TO CONSTRUCTION OPERATIONS.

15. WHEN CONSTRUCTION DISTURBS EXISTING DITCHLINES, THE RESTORED DITCHLINES SHALL BE STABILIZED WITH EXCELSIOR MAT FOR EROSION CONTROL.

16. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE LOCAL PROGRAM ADMINISTRATOR.

17. HORIZONTAL CONTROL: VIRGINIA STATE PLANE COORDINATES (SOUTH ZONE, NAD83, NSRS 2011 , US FT)
VERTICAL CONTROL: PREVIOUS PLANT VERTICAL BASED ON FINISHED FLOOR ELEVATIONS
HORIZONTAL CONTROL ESTABLISHED BY GPS OBSERVATIONS AND COMPUTED USING NATIONAL GEODETIC SURVEY ONLINE POSITIONING USER SERVICE (OPUS). GRID COORDINATES WERE HELD ON CONTROL POINT #4. NORTH ARROW IS GRID NORTH. ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES.

18. CONTRACTOR SHALL REFER TO THE 2011 VDOT WORK AREA PROTECTION MANUAL AND THE VIRGINIA SUPPLEMENT TO THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR SHOULDER AND LANE CLOSURE. SHOULDER LANE CLOSURE PLANS SHALL BE APPROVED BY LOCAL VDOT RESIDENT ENGINEER.

DIM	DIMENSION	FES	FLARED END SECTION	ID	INSIDE DIAMETER	N	NEW
DIST	DISTANCE	FIG	FIGURE	INSUL	INSULATION	NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DN	DOWN	FIN	FINISH	INT	INTERIOR	NIC	NOT IN CONTRACT
DWG	DRAWING	FH	FIRE HYDRANT	INV	INVERT	NTS	NOT TO SCALE
DI	DROP INLET	F.F.	FINISHED FLOOR	LB	POUND	NO	NUMBER
DIP	DUCTILE IRON PIPE	FL	FLOOR	LG	LENGTH OR LONG	OC	ON CENTER
DMH	DROP MANHOLE	FD	FLOOR DRAIN	LF	LINEAR FEET	OD	OUTSIDE DIAMETER
D	DRAIN	FLOUR	FLOURESCENT	LP	LOW POINT	OSHA	OCCUPATIONAL SAFETY & HEALTH ACT
DWL	DWELLING	FM	FORCE MAIN	LT	LEFT	PB	PAPER BOX
EA	EACH	FLG	FLANGE	MB	MAILBOX	PVC	POLYVINYL CHLORIDE
EF	EACH FACE	GPM	GALLONS PER MINUTE	MH	MANHOLE	PRV	PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE
EW	EACH WAY, END WALL	GALV	GALVANIZED	MFR	MANUFACTURER	PL	PROPERTY LINE
EOP	EDGE OF PAVEMENT	GV	GATE VALVE	MATL	MATERIAL	PED	PEDESTAL
EL	ELBOW	GRD	GRADE	MAX	MAXIMUM	PMT	PAVEMENT
ELEC	ELECTRICAL, ELECTRIC	GA	GAUGE	MJ	MECHANICAL JOINT	PERF	PERFORATED
ELEV	ELEVATION	GDW	GYPSUM DRYWALL	MGD	MILLION GALLONS PER DAY	PC	POINT OF CURVATURE
ENGR	ENGINEER	HTR	HEATER	MIN	MINIMUM	PCC	POINT OF COMPOUND
ENTR	ENTRANCE	HVAC	HEATING VENTILATION & AIR CONDITIONING	MISC	MISCELLANEOUS	PI	CURVATURE POINT OF INTERSECT
EQUIP	EQUIPMENT	HT	HEIGHT	ML	MIXED LIQUOR	PP	POWER POLE
EX, EXIST, EXISTING		HWY	HIGHWAY	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION	PRC	POINT OF REVERSE CURVE
EJ	EXPANSION JOINT	HOR	HORIZONTAL	NPW	NON POTABLE WATER	PT	POINT OF TANGENCY
EXT	EXTERIOR	HP	HORSEPOWER, HIGH POINT	NPR	NON POTABLE REUSE WATER	POVC	POINT OF VERTICAL CURVE
FOC	FACE OF CURB	IN	INCH	NATL	NATIONAL	PVI	POINT OF VERTICAL INTERSECT
FT	FEET	ID	INSIDE DIAMETER				

ABBREVIATIONS

A	AIR		
A.B.	ANCHOR BOLT	CI	CAST IRON
ABUT	ABUTMENT	CB	CATCH BASIN
ADD	ADDITIONAL	CEM	CEMENT
ADJ	ADJUSTABLE	CL	CENTERLINE
AGGR	AGGREGATE	CO	CLEAN OUT
ALT	ALTERNATE	CONC	CONCRETE
ALUM	ALUMINUM	CONN	CONNECTION
ASTM	AMERICAN STANDARD FOR TESTING & MATERIALS	CONT	CONTINUOUS
AWWA	AMERICAN WATER WORKS ASSOCIATION	CMP	CORRUGATED METAL PIPE
ASSY	ASSEMBLY	CF	CUBIC FEET
APPROX	APPROXIMATE	CFM	CUBIC FEET PER MINUTE
BOC	BACK OF CURB	CFS	CUBIC FEET PER SECOND
BSMT	BASEMENT	CU IN	CUBIC INCH
BO	BLOW OFF	CULV	CULVERT
BRG	BEARING	CV	CHECK VALVE
BM	BENCH MARK	C & G	CURB & GUTTER
B	BEND	CY	CUBIC YARD
BOTT	BOTTOM	DEPT	DEPARTMENT
BOB	BOTTOM OF BANK	GEN	GENERATOR
BRZ	BRONZE	GOVT	GOVERNMENT
BLDG	BUILDING	DET	DETAIL
		DIA	DIAMETER

DIM	DIMENSION	FES	FLARED END SECTION	ID	INSIDE DIAMETER
DIST	DISTANCE	FIG	FIGURE	INSUL	INSULATION
DN	DOWN	FIN	FINISH	INT	INTERIOR
DWG	DRAWING	FH	FIRE HYDRANT	INV	INVERT
DR	DRIVE	FLEX	FLEXIBLE	JB	JUNCTION BOX
DI	DROP INLET	F.F.	FINISHED FLOOR	LB	POUND
DIP	DUCTILE IRON PIPE	FL	FLOOR	LG	LENGTH OR LONG
DMH	DROP MANHOLE	FD	FLOOR DRAIN	LF	LINEAR FEET
D	DRAIN	FLOUR	FLOURESCENT	LP	LOW POINT
DWL	DWELLING	FM	FORCE MAIN	LT	LEFT
EA	EACH	FLG	FLANGE	MB	MAILBOX
EF	EACH FACE	GPM	GALLONS PER MINUTE	MH	MANHOLE
EW	EACH WAY, END WALL	GALV	GALVANIZED	MFR	MANUFACTURER
EOP	EDGE OF PAVEMENT	GV	GATE VALVE	MATL	MATERIAL
EL	ELBOW	GRD	GRADE	MAX	MAXIMUM
ELEC	ELECTRICAL, ELECTRIC	GA	GAUGE	MJ	MECHANICAL JOINT
ELEV	ELEVATION	GPDW	GYPSSUM DRYWALL	MGD	MILLION GALLONS PER DAY
ENGR	ENGINEER	HTR	HEATER	MIN	MINIMUM
ENTR	ENTRANCE	HVAC	HEATING VENTILATION & AIR CONDITIONING	MISC	MISCELLANEOUS
EQUIP	EQUIPMENT			ML	MIXED LIQUOR
EX, EXIST.	EXISTING	HT	HEIGHT	NEMA	NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION
EJ	EXPANSION JOINT	HWY	HIGHWAY	NPW	NON POTABLE WATER
EXT	EXTERIOR	HOR	HORIZONTAL	NPR	NON POTABLE REUSE WATER
FOC	FACE OF CURB	HP	HORSEPOWER, HIGH POINT		
FT	FEET	IN	INCH	NATL	NATIONAL
		ID	INSIDE DIAMETER		

N	NEW
NCDOT	NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL SAFETY & HEALTH ACT
PB	PAPER BOX
PVC	POLYVINYL CHLORIDE
PRV	PRESSURE RELIEF VALVE, PRESSURE REDUCING VALVE
PL	PROPERTY LINE
PED	PEDESTAL
PWMT	PAVEMENT
PERF	PERFORATED
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND
PI	CURVATURE POINT OF INTERSECTION
PP	POWER POLE
PRC	POINT OF REVERSE CURVE
PT	POINT OF TANGENCY
POVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION

RAD	RADIUS REF REFERENCE	STA	STATION	T & B	TOP AND BOTTOM
RAS	RETURN ACTIVATED SLUDGE	STL	STEEL	TOB	TOP OF BANK
RCP	REINFORCED CONCRETE PIPE	S.S.	SANITARY SEWER, STAINLESS STEEL	TOW	TOP OF WALL
RD	ROAD, ROOF DRAIN	SSC	SECONDARY SCUM	TDC	TURNED DOWN CURB
REQ'D	REQUIRED REV REVISED	SCH	SCHEDULE	TYP	TYPICAL
RT	RIGHT	SECT	SECTION	UG	UNDERGROUND
R/W, ROW	RIGHT OF WAY	SHT	SHEET	UL	UNDERWRITER'S LABORATORY
R	RISER	STM	STORM	VERT	VERTICAL
RS	RAW SEWAGE	ST	STREET	VC	VERTICAL CURVE
SE	SECONDARY EFFLUENT	STY	STORY	VDOT	VIRGINIA DEPT OF TRANSPORTATION
SIM	SIMILAR	TD	TANK DRAIN	W/	WITH
SPEC	SPECIFICATION	TEL	TELEPHONE	WAS	WASTE ACTIVATED SLUDGE
SR	STATE ROUTE OR SECONDARY ROAD	TEMP	TEMPORARY OR TEMPERATURE	WL	WATER MAIN
STD	STANDARD	THK	THICK		



REVISIONS		
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DATE APRIL, 2022

PROJECT NO. 50083060

SHEET NO. 0 OF ----

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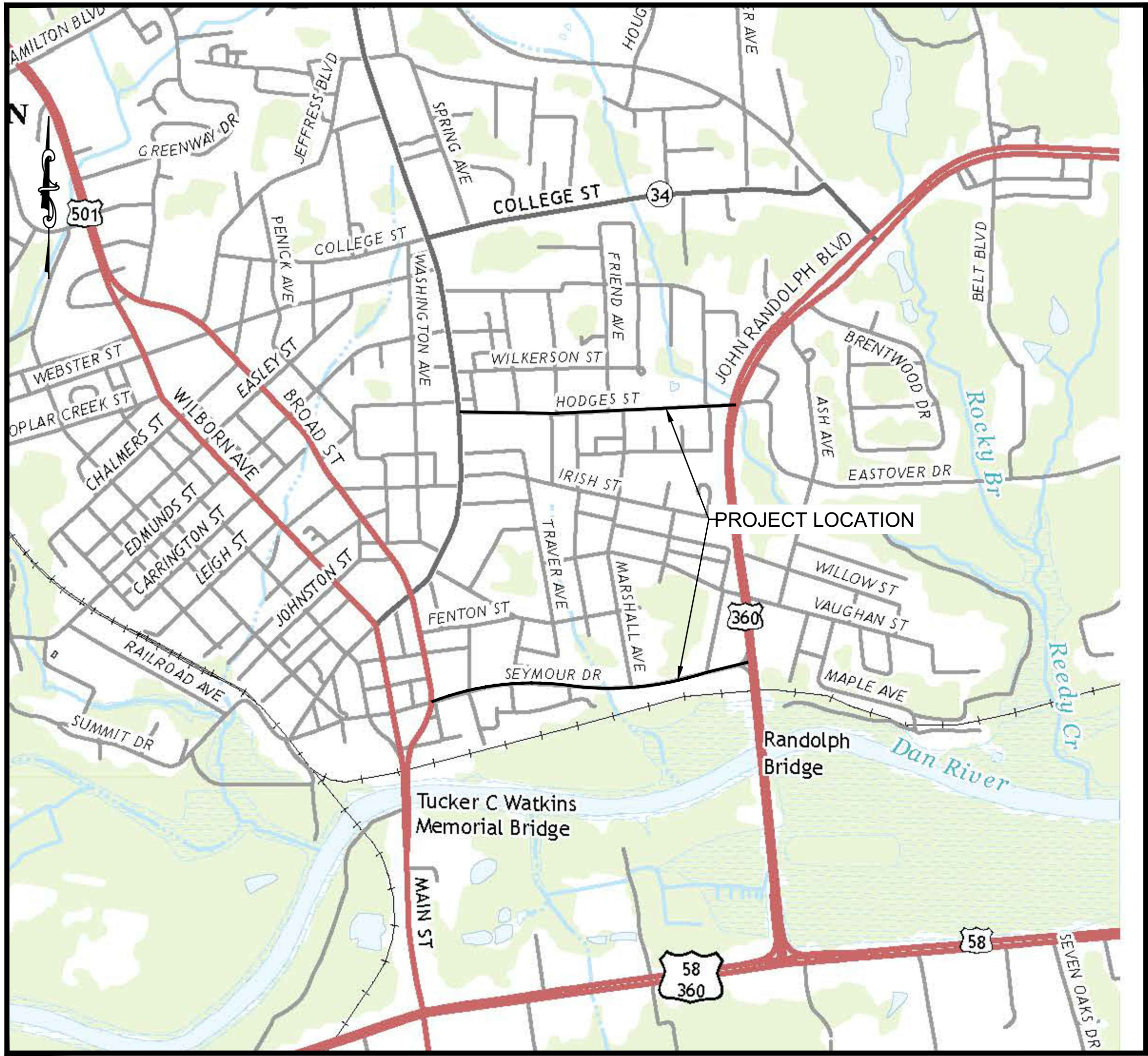
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9VAC25-840-40, MINIMUM STANDARDS.
A VESCP MUST BE CONSISTENT WITH THE FOLLOWING CRITERIA, TECHNIQUES AND METHODS:

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE PROJECT SITE.
- A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - SURFACE RUNOFF FROM DISTURBED AREAS THAT IS COMPRISED OF FLOW FROM DRAINAGE AREAS GREATER THAN OR EQUAL TO THREE ACRES SHALL BE CONTROLLED BY A SEDIMENT BASIN. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT BASIN SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA. THE OUTFALL SYSTEM SHALL, AT A MINIMUM, MAINTAIN THE STRUCTURAL INTEGRITY OF THE BASIN DURING A 25-YEAR STORM OF 24-HOUR DURATION. RUNOFF COEFFICIENTS USED IN RUNOFF CALCULATIONS SHALL CORRESPOND TO A BARE EARTH CONDITION OR THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL.
- WHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT, CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION. NONERODIBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAMS. EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- ALL APPLICABLE FEDERAL, STATE AND LOCAL REQUIREMENTS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.

- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
 - EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
 - MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
 - RE-STABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER.
 - APPLICABLE SAFETY REQUIREMENTS SHALL BE COMPLIED WITH.
- WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED OR PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE, THE ROAD SURFACE SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL DISPOSAL AREA. STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- PROPERTIES AND WATERWAYS DOWNSTREAM FROM DEVELOPMENT SITES SHALL BE PROTECTED FROM SEDIMENT DEPOSITION, EROSION AND DAMAGE DUE TO INCREASES IN VOLUME, VELOCITY AND PEAK FLOW RATE OF STORMWATER RUNOFF FOR THE STATED FREQUENCY STORM OF 24-HOUR DURATION IN ACCORDANCE WITH THE FOLLOWING STANDARDS AND CRITERIA: STREAM RESTORATION AND RELOCATION PROJECTS THAT INCORPORATE NATURAL CHANNEL DESIGN CONCEPTS ARE NOT MAN-MADE CHANNELS AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS:
 - CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADEQUATE NATURAL OR MAN-MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREAM STABILITY ANALYSES AT THE OUTFALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORMED.
 - ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER:
 - THE APPLICANT SHALL DEMONSTRATE THAT THE TOTAL DRAINAGE AREA TO THE POINT OF ANALYSIS WITHIN THE CHANNEL IS 100 TIMES GREATER THAN THE CONTRIBUTING DRAINAGE AREA OF THE PROJECT IN QUESTION;
 - (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CAUSE EROSION OF CHANNEL BED OR BANKS.
(b) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WILL NOT CAUSE EROSION OF CHANNEL BED OR BANKS; AND
(c) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A 10-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.
 - IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 - IMPROVE THE CHANNELS TO A CONDITION WHERE A 10-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO THE CHANNEL, THE BED, OR THE BANKS;
 - IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE 10-YEAR STORM IS CONTAINED WITHIN THE APPURTENANCES;

- DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A 10-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MAN-MADE CHANNEL; OR
- PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.
- THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
- ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERISTICS AND THE ULTIMATE DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.
- IF THE APPLICANT CHOOSES AN OPTION THAT INCLUDES STORMWATER DETENTION, HE SHALL OBTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE MAINTENANCE.
- OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE RECEIVING CHANNEL.
- ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
- INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY.
- IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIAL, COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL ENGINEERING CALCULATIONS.
- ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS, STREAMS AND OTHER WATERS OF THE STATE.
- ANY PLAN APPROVED PRIOR TO JULY 1, 2014, THAT PROVIDES FOR STORMWATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS IF THE PRACTICES ARE DESIGNED TO (i) DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS; (ii) DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24-HOUR STORM; AND (iii) REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1, 5, 2, AND 10-YEAR, 24-HOUR STORMS TO A LEVEL THAT IS LESS THAN OR EQUAL TO THE PEAK FLOW RATE FROM THE SITE ASSUMING IT WAS IN A GOOD FORESTED CONDITION, ACHIEVED THROUGH MULTIPLICATION OF THE FORESTED PEAK FLOW RATE BY A REDUCTION FACTOR THAT IS EQUAL TO THE RUNOFF VOLUME FROM THE SITE WHEN IT WAS IN A GOOD FORESTED CONDITION DIVIDED BY THE RUNOFF VOLUME FROM THE SITE IN ITS PROPOSED CONDITION. AND SHALL BE EXEMPT FROM ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS AS DEFINED IN ANY REGULATIONS PROMULGATED PURSUANT TO § 62.1-44.15:54 OR 62.1-44.15:65 OF THE ACT.
- FOR PLANS APPROVED ON AND AFTER JULY 1, 2014, THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTITY REQUIREMENTS IN THE STORMWATER MANAGEMENT ACT (§ 62.1-44.15:24 ET SEQ. OF THE CODE OF VIRGINIA) AND ATTENDANT REGULATIONS, UNLESS SUCH LAND-DISTURBING ACTIVITIES (i) ARE IN ACCORDANCE WITH PROVISIONS FOR TIME LIMITS ON APPLICABILITY OF APPROVED DESIGN CRITERIA IN 9VAC25-870-47 OR GRANDFATHERING IN 9VAC25-870-48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION, IN WHICH CASE THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS OF § 62.1-44.15:52 A OF THE ACT SHALL APPLY, OR (ii) ARE EXEMPT PURSUANT TO § 62.1-44.15:34 C 7 OF THE ACT.
- COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 9VAC25-870-66 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) REGULATION SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF THIS SUBDIVISION 19.



Vicinity Map

SCALE: 1"=1,000'

TOTAL AREA OF LAND DISTURBANCE = 0.95 (ACRES)

E&S LEGEND

- LIMITS OF DISTURBANCE — LOD —
- CE TEMPORARY STONE CONSTRUCTION ENTRANCE, VA STD. 3.02
 - TS TEMPORARY SEEDING, VA E&S STD. 3.31
 - PS PERMANENT SEEDING, VA E&S STD. 3.32
 - IP INLET PROTECTION, VA E&S STD. 3.07
 - BM SOIL STABILIZATION BLANKETS & MATTING, VA E&S STD. 3.36
 - SF SILT FENCE, VA E&S STD. 3.05 — X —
- 0.0% DRAINAGE FLOW ARROW w/ APPROXIMATE SLOPE

EROSION & SEDIMENT CONTROL NOTES:

THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE ADHERED TO BY THE CONTRACTOR AT ALL TIMES:

- OBTAIN ALL PERMITS AND POST ALL REQUIRED BONDS. CONTRACTOR SHALL OBTAIN LOCAL EROSION & SEDIMENT CONTROL PERMIT.
- CONTRACTOR SHALL KEEP & MAINTAIN A COPY OF THE VIRGINIA EROSION & SEDIMENT CONTROL HAND-BOOK, LATEST EDITION ON-SITE AT ALL TIMES.
- INSTALL PERIMETER SILT FENCE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT. TEMPORARY EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO ALL LAND DISTURBING ACTIVITIES.
- CONTRACTOR SHALL SEED AND MULCH ALL DITCHES LESS THAN 2% SLOPE. ALL DITCHES GREATER THAN 2% SLOPE SHALL BE LINED W/ BLANKET MATTING.
- ALL SPECIFIC LOCATIONS FOR SILT FENCE OR STONE CHECK DAMS ARE NOT SHOWN ON THE APPROVED PLANS. THE NEED FOR ADDITIONAL E&S CONTROL MEASURES IS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND THE EROSION CONTROL DIRECTOR.
- INSTALL BLANKET MATTING AND RIP-RAP IN DITCHES AND ON STEEP SLOPES PER DETAILS.
- TEMPORARY SEEDING SHALL OCCUR AS CONSTRUCTION PROGRESSES. NO SECTION/ DISTURBANCE LONGER THAN 1000' SHALL BE LEFT UNSEEDDED. TEMPORARY SEEDING SHALL COMPLY W/ THE VPDES PERMIT ON THIS SHT.
- REMOVE EROSION AND SEDIMENT CONTROL MEASURES UPON SITE STABILIZATION.
- CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE MEASURES UNTIL THE SITE IS STABILIZED.
- ALL DENUDED AREAS SHALL BE SHAPED TO PROMOTE POSITIVE DRAINAGE.



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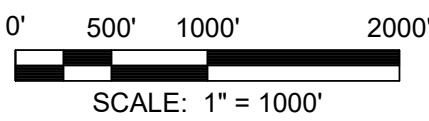
HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ ANH

APPROVED BY _____ RSE

CHECKED BY _____ LBM

DATE _____ APRIL, 2022

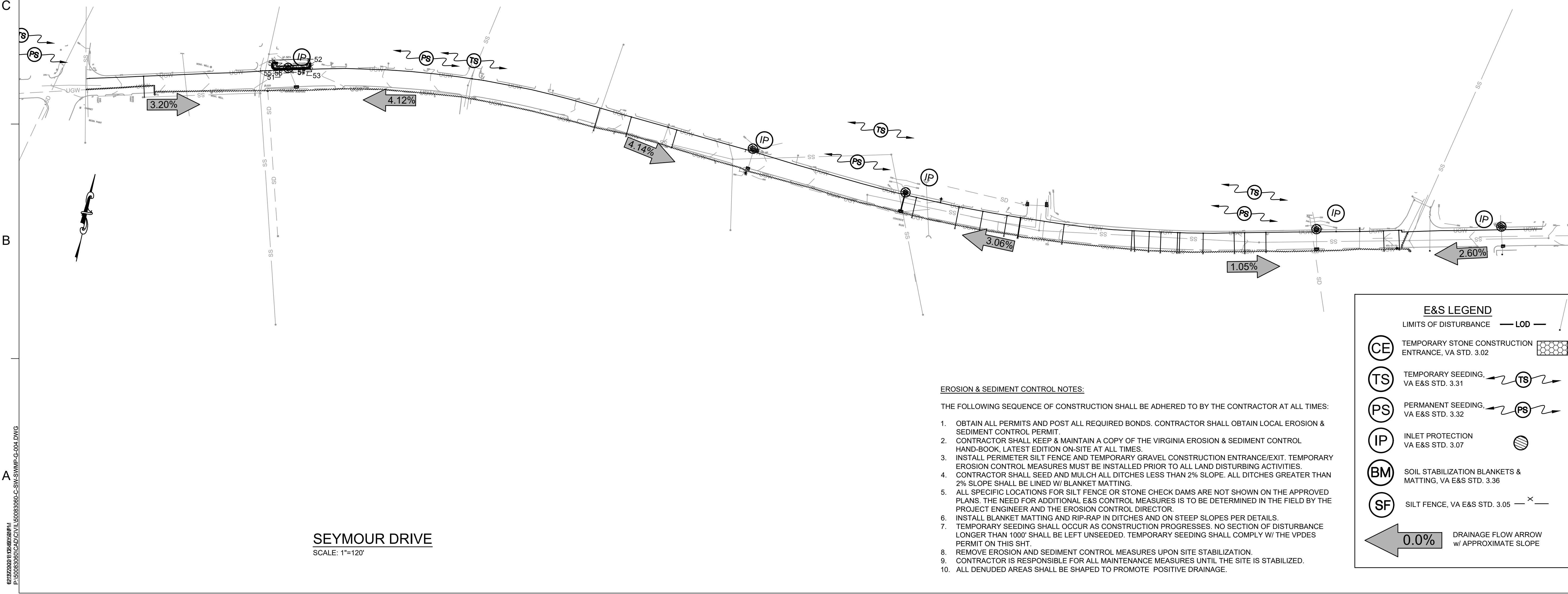
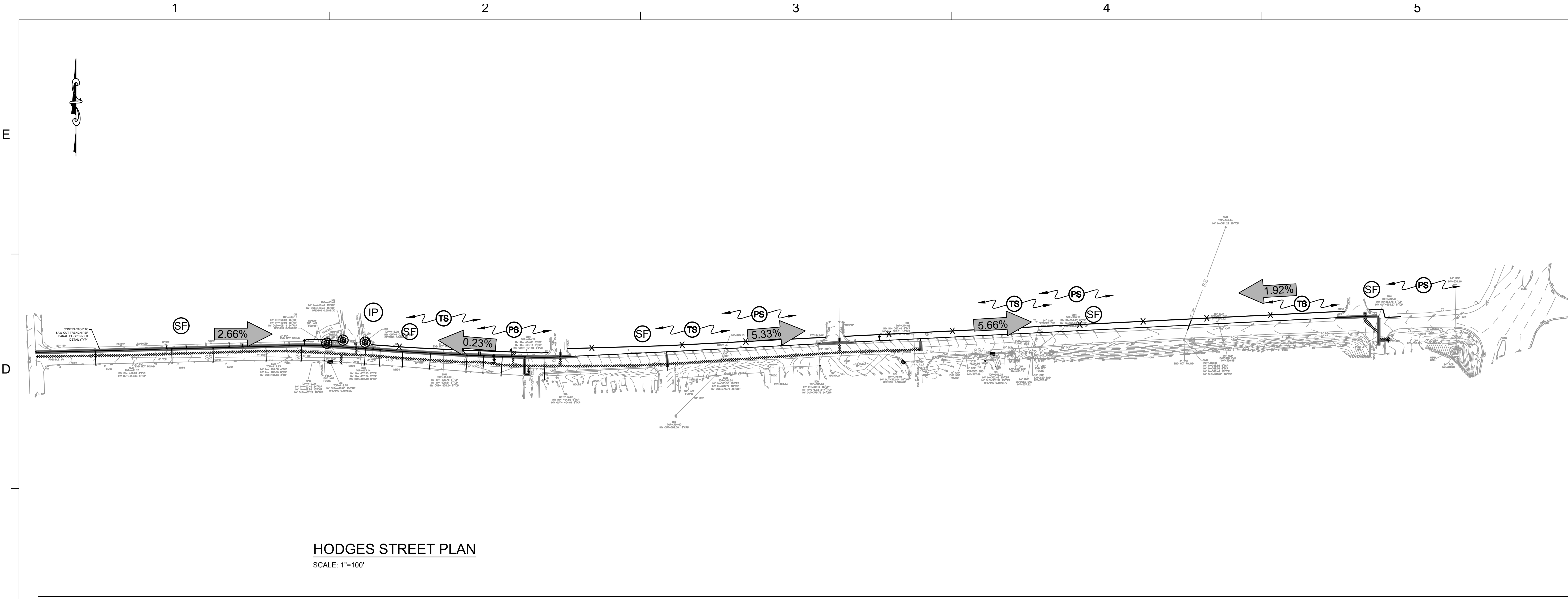
TITLE

EROSION AND SEDIMENT CONTROL NOTES

PROJECT NO. 50083060

G-003

SHEET NO. 0 OF ----



- EROSION & SEDIMENT CONTROL NOTES:**
- THE FOLLOWING SEQUENCE OF CONSTRUCTION SHALL BE ADHERED TO BY THE CONTRACTOR AT ALL TIMES:
1. OBTAIN ALL PERMITS AND POST ALL REQUIRED BONDS. CONTRACTOR SHALL OBTAIN LOCAL EROSION & SEDIMENT CONTROL PERMIT.
 2. CONTRACTOR SHALL KEEP & MAINTAIN A COPY OF THE VIRGINIA EROSION & SEDIMENT CONTROL HAND-BOOK, LATEST EDITION ON-SITE AT ALL TIMES.
 3. INSTALL PERIMETER SILT FENCE AND TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT. TEMPORARY EROSION CONTROL MEASURES MUST BE INSTALLED PRIOR TO ALL LAND DISTURBING ACTIVITIES.
 4. CONTRACTOR SHALL SEED AND MULCH ALL DITCHES LESS THAN 2% SLOPE. ALL DITCHES GREATER THAN 2% SLOPE SHALL BE LINED W/ BLANKET MATTING.
 5. ALL SPECIFIC LOCATIONS FOR SILT FENCE OR STONE CHECK DAMS ARE NOT SHOWN ON THE APPROVED PLANS. THE NEED FOR ADDITIONAL E&S CONTROL MEASURES IS TO BE DETERMINED IN THE FIELD BY THE PROJECT ENGINEER AND THE EROSION CONTROL DIRECTOR.
 6. INSTALL BLANKET MATTING AND RIP-RAP IN DITCHES AND ON STEEP SLOPES PER DETAILS.
 7. TEMPORARY SEEDING SHALL OCCUR AS CONSTRUCTION PROGRESSES. NO SECTION OF DISTURBANCE LONGER THAN 1000' SHALL BE LEFT UNSEEDDED. TEMPORARY SEEDING SHALL COMPLY W/ THE VPDES PERMIT ON THIS SHT.
 8. REMOVE EROSION AND SEDIMENT CONTROL MEASURES UPON SITE STABILIZATION.
 9. CONTRACTOR IS RESPONSIBLE FOR ALL MAINTENANCE MEASURES UNTIL THE SITE IS STABILIZED.
 10. ALL DENUDED AREAS SHALL BE SHAPED TO PROMOTE POSITIVE DRAINAGE.

E&S LEGEND

LIMITS OF DISTURBANCE — LOD —

(CE) TEMPORARY STONE CONSTRUCTION ENTRANCE, VA STD. 3.02

(TS) TEMPORARY SEEDING, VA E&S STD. 3.31

(PS) PERMANENT SEEDING, VA E&S STD. 3.32

(IP) INLET PROTECTION, VA E&S STD. 3.07

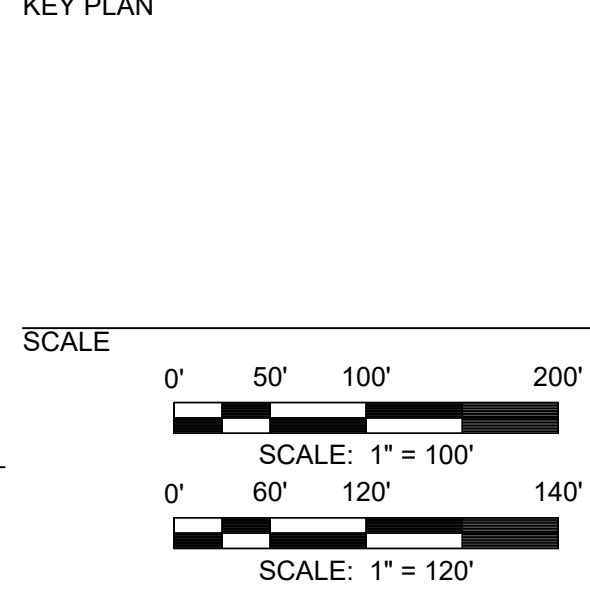
(BM) SOIL STABILIZATION BLANKETS & MATTING, VA E&S STD. 3.36

(SF) SILT FENCE, VA E&S STD. 3.05

0.0% DRAINAGE FLOW ARROW w/ APPROXIMATE SLOPE

HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL
COMMONWEALTH OF VIRGINIA
LESLIE B. MANTIPLY
Lic. No. 0402059434
2/2/2023
PROFESSIONAL ENGINEER



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY ANH
APPROVED BY RSE
CHECKED BY LBM
DATE APRIL, 2022
TITLE

OVERALL
EROSION AND
SEDIMENT
CONTROL PLAN

PROJECT NO. 50083060

G-004

SHEET NO. 0 OF ---

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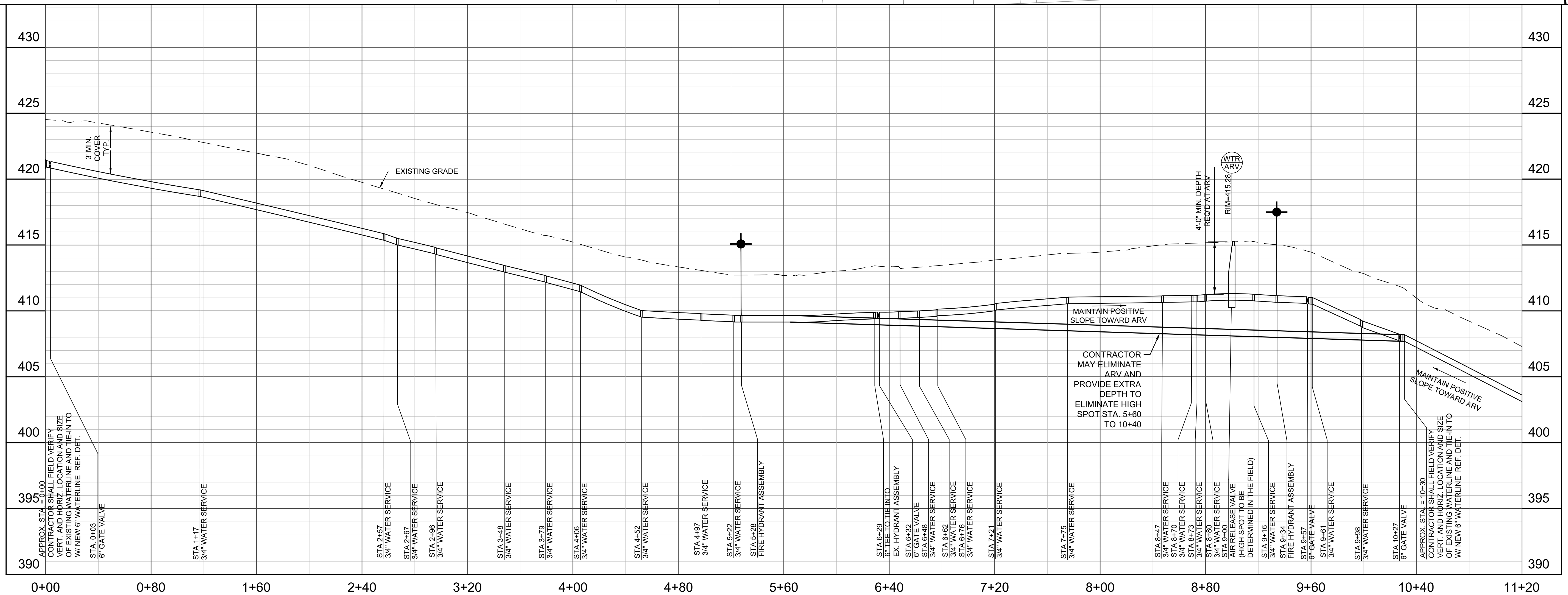
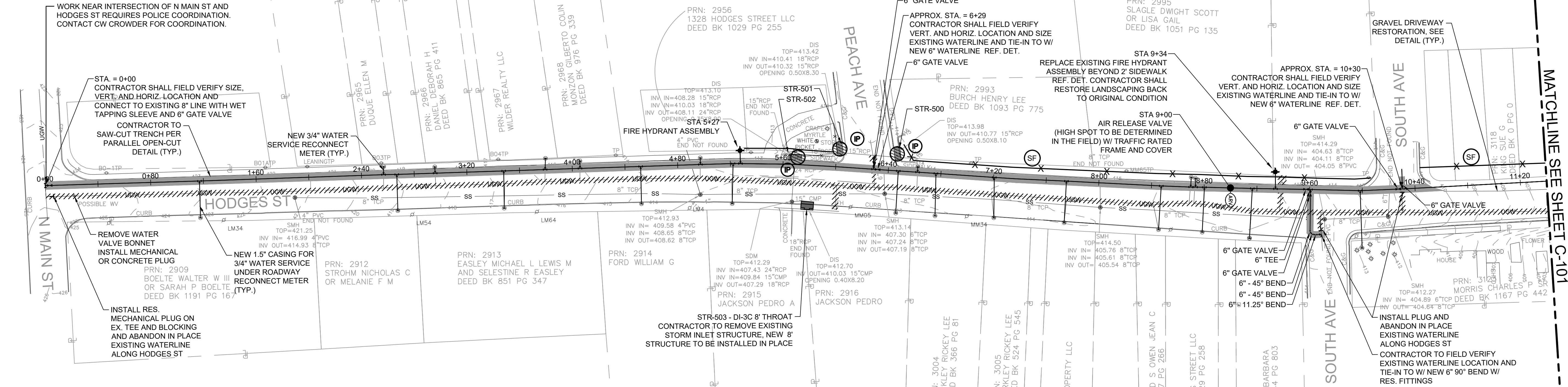
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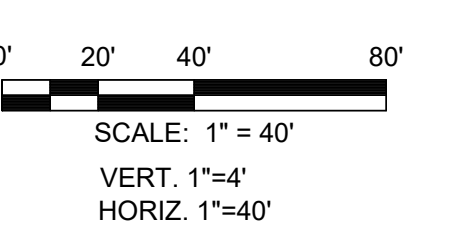
HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

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CHECKED BY LBM

DATE APRIL, 2022

TITLE

HODGES ST
WATERLINE
PLAN AND
PROFILE

PROJECT NO. 50083060

C-100

SHEET NO. 0 OF ---

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E

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MATCHLINE SEE SHEET C-100

MATCHLINE SEE SHEET C-102

NOTE: ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.

LEGEND
ABANDON IN PLACE
PAVEMENT REPAIR OPEN-CUT

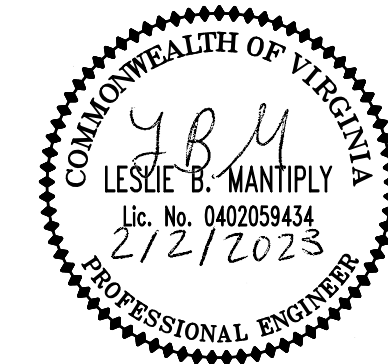
PRN: 3304
WAGNER CHARLES R
OR JUDITH M
DEED BK 1054 PG 223



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HCSA
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HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE

0' 20' 40' 80'
SCALE: 1" = 40'
VERT. 1"=4'
HORIZ. 1"=40'

REVISIONS

NO.	DESCRIPTION	DATE

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DATE APRIL, 2022

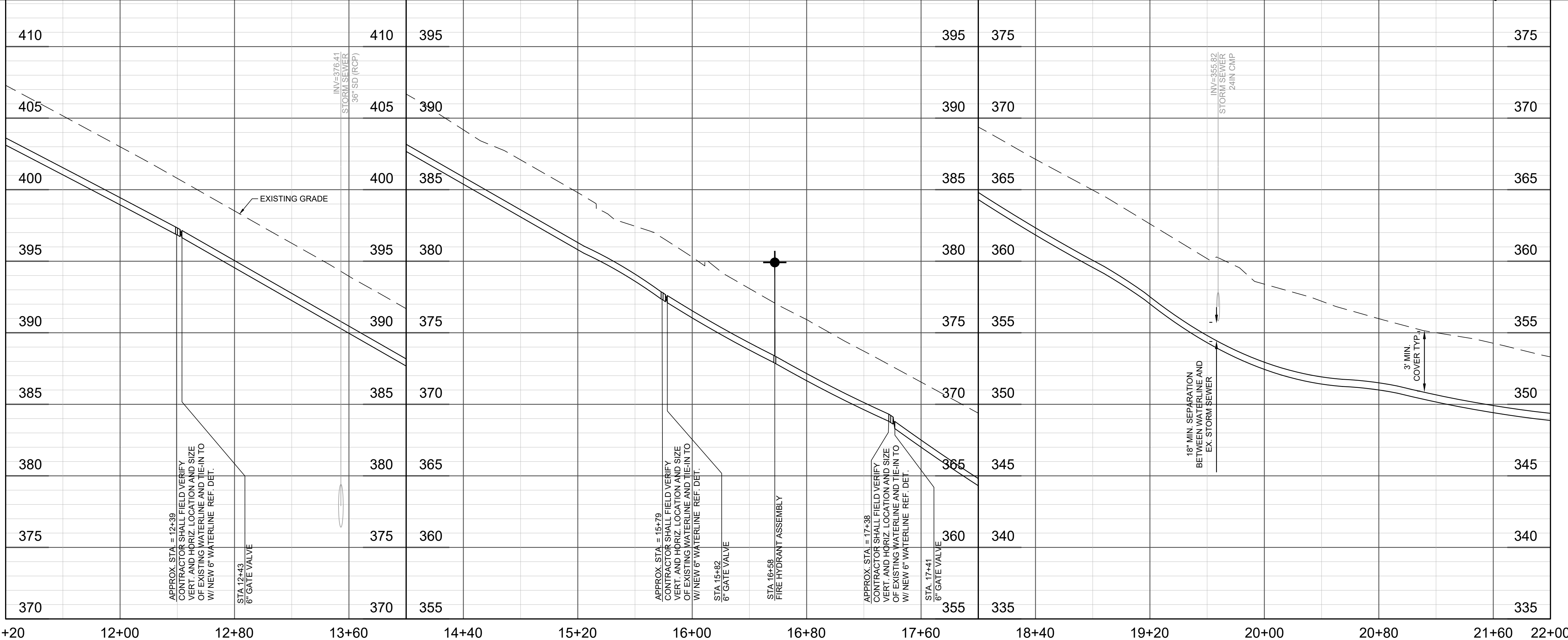
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HODGES ST
WATERLINE
PLAN AND
PROFILE

PROJECT NO. 50083060

C-101

SHEET NO. 0 OF ---



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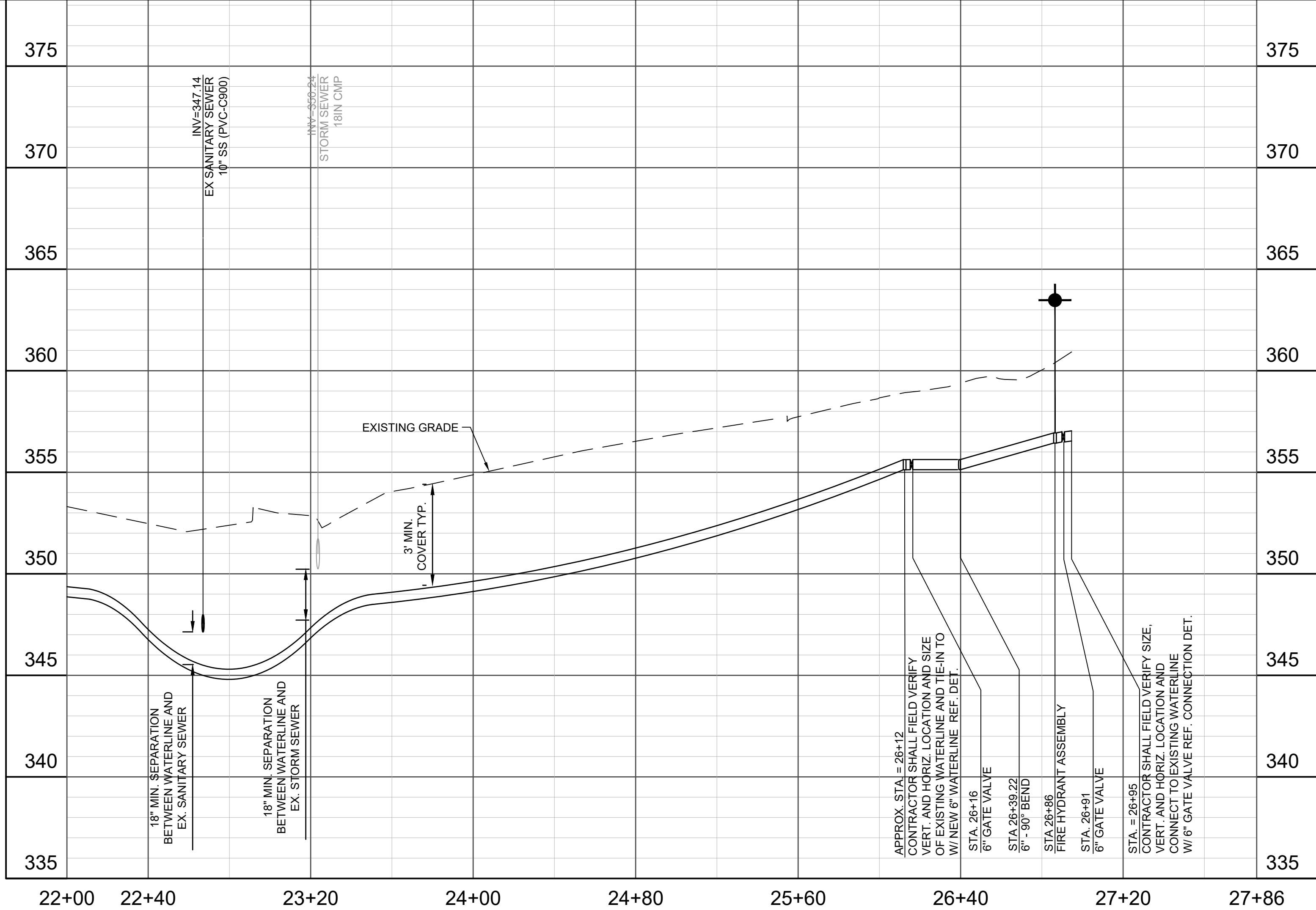
D

C

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MATCHLINE SEE SHEET C-101



NOTE: ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.

LEGEND
ABANDON IN PLACE
PAVEMENT REPAIR OPEN-CUT



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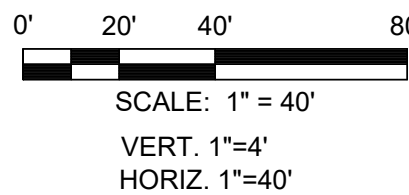
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HODGES STREET
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SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

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DATE APRIL, 2022

TITLE

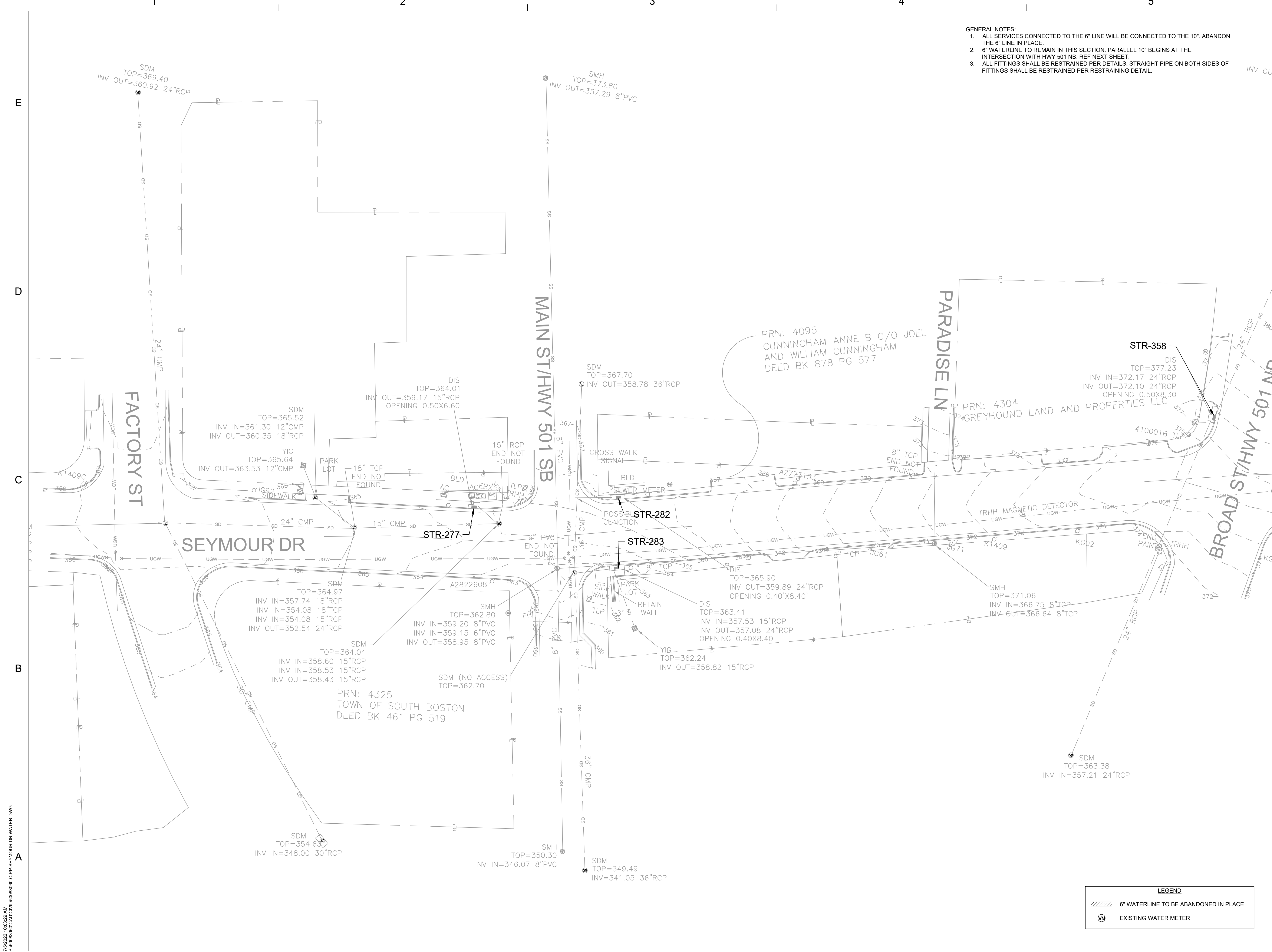
HODGES ST
WATERLINE
PLAN AND
PROFILE

PROJECT NO. 50083060

C-102

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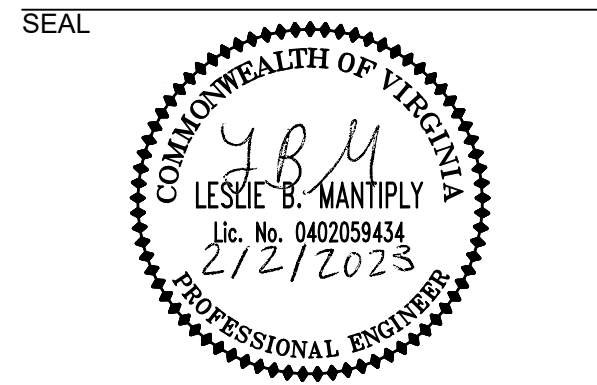


- GENERAL NOTES:
1. ALL SERVICES CONNECTED TO THE 6" LINE WILL BE CONNECTED TO THE 10". ABANDON THE 6" LINE IN PLACE.
 2. 6" WATERLINE TO REMAIN IN THIS SECTION. PARALLEL 10" BEGINS AT THE INTERSECTION WITH HWY 501 NB. REF NEXT SHEET.
 3. ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.

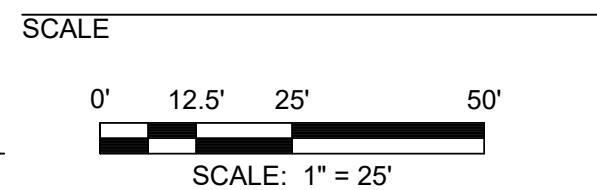


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SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA



KEY PLAN



REVISIONS		
NO.	DESCRIPTION	DATE

DRAWN BY _____ ANH
APPROVED BY _____ RSE
CHECKED BY _____ LBM
DATE _____ APRIL, 2022

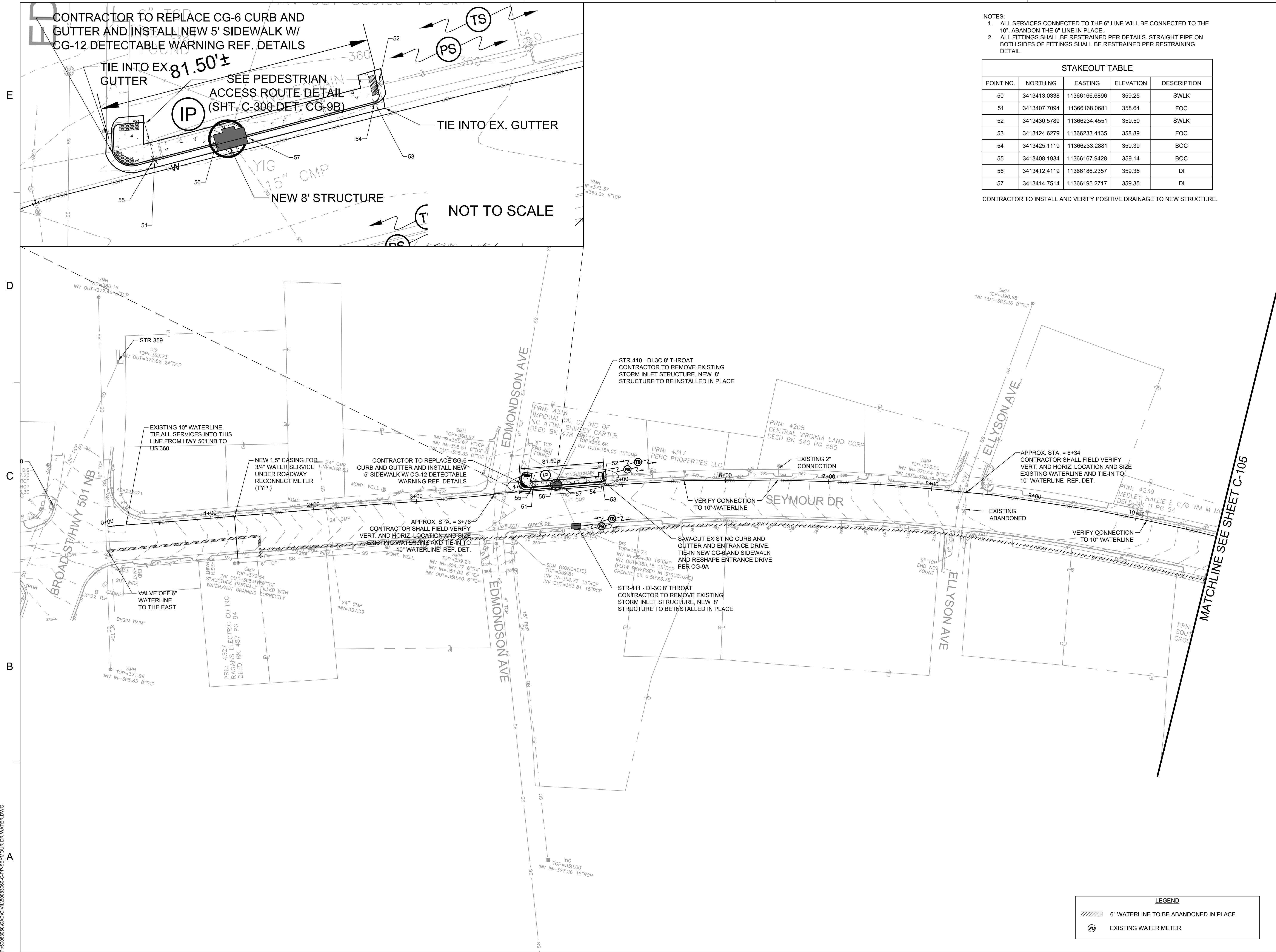
TITLE
SEYMOUR DR
WATERLINE
PLAN

PROJECT NO. 50083060

C-103

SHEET NO. 0 OF ----

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- NOTES:
- ALL SERVICES CONNECTED TO THE 6" LINE WILL BE CONNECTED TO THE 10". ABANDON THE 6" LINE IN PLACE.
 - ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.

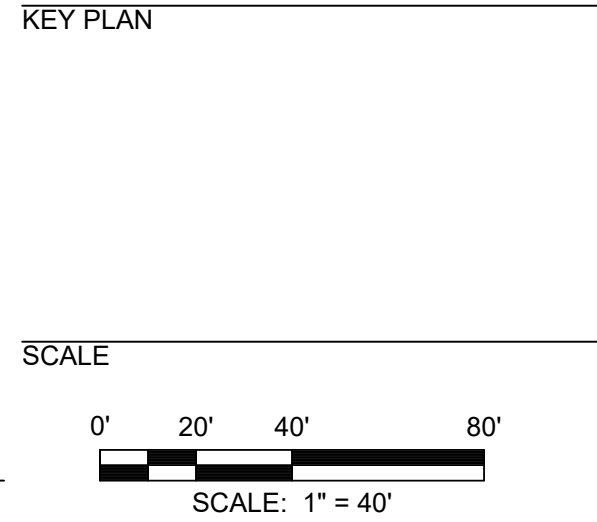
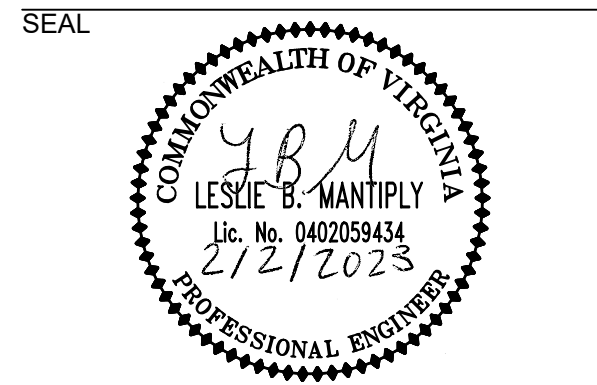
STAKEOUT TABLE				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
50	3413413.0338	11366166.6896	359.25	SWLK
51	3413407.7094	11366168.0681	358.64	FOC
52	3413430.5789	11366234.4551	359.50	SWLK
53	3413424.6279	11366233.4135	358.89	FOC
54	3413425.1119	11366233.2881	359.39	BOC
55	3413408.1934	11366167.9428	359.14	BOC
56	3413412.4119	11366186.2357	359.35	DI
57	3413414.7514	11366195.2717	359.35	DI

CONTRACTOR TO INSTALL AND VERIFY POSITIVE DRAINAGE TO NEW STRUCTURE.



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HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA



REVISIONS		
NO.	DESCRIPTION	DATE

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CHECKED BY LBM
DATE APRIL, 2022

TITLE
SEYMOUR DR
WATERLINE
PLAN

PROJECT NO. 50083060

C-104

SHEET NO. 0 OF ---

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MATCHLINE SEE SHEET C-104

MATCHLINE SEE SHEET C-106

- NOTES:
1. ALL SERVICES CONNECTED TO THE 6" LINE WILL BE CONNECTED TO THE 10". ABANDON THE 6" LINE IN PLACE.
 2. ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.



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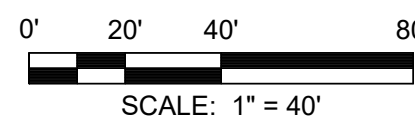
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HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY ANH

APPROVED BY RSE

CHECKED BY LBM

DATE APRIL, 2022

TITLE

SEYMOUR DR
WATERLINE
PLAN

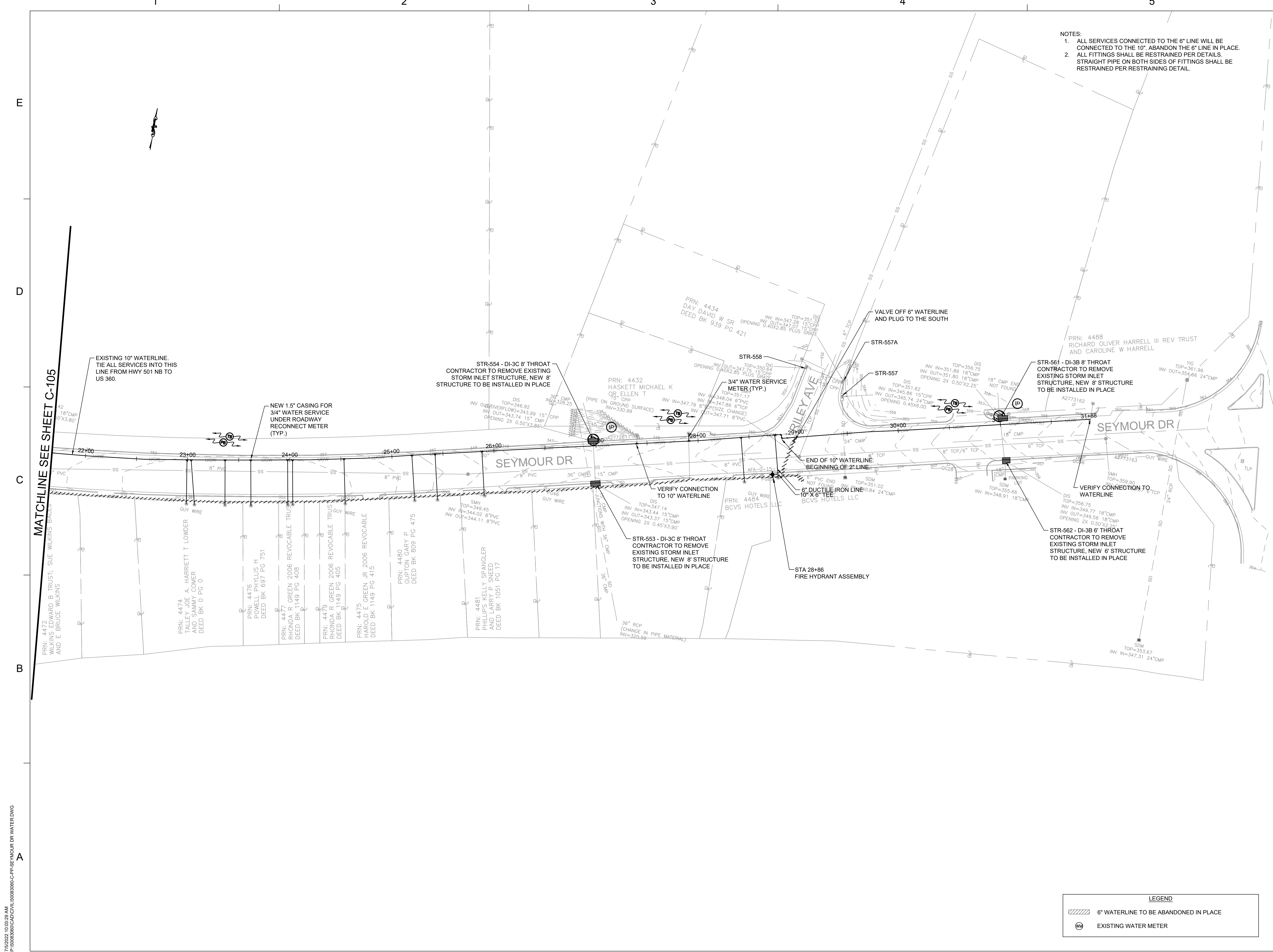
PROJECT NO. 50083060

C-105

SHEET NO. 0 OF ---

LEGEND

- 6" WATERLINE TO BE ABANDONED IN PLACE
- EXISTING WATER METER



- NOTES:
1. ALL SERVICES CONNECTED TO THE 6" LINE WILL BE CONNECTED TO THE 10". ABANDON THE 6" LINE IN PLACE.
 2. ALL FITTINGS SHALL BE RESTRAINED PER DETAILS. STRAIGHT PIPE ON BOTH SIDES OF FITTINGS SHALL BE RESTRAINED PER RESTRAINING DETAIL.

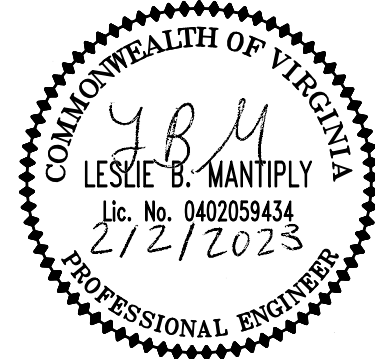
LEGEND	
	6" WATERLINE TO BE ABANDONED IN PLACE
	EXISTING WATER METER



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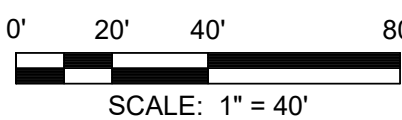
HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY _____ ANH

APPROVED BY _____ RSE

CHECKED BY _____ LBM

DATE _____ APRIL, 2022

TITLE

SEYMOUR DR
WATERLINE
PLAN

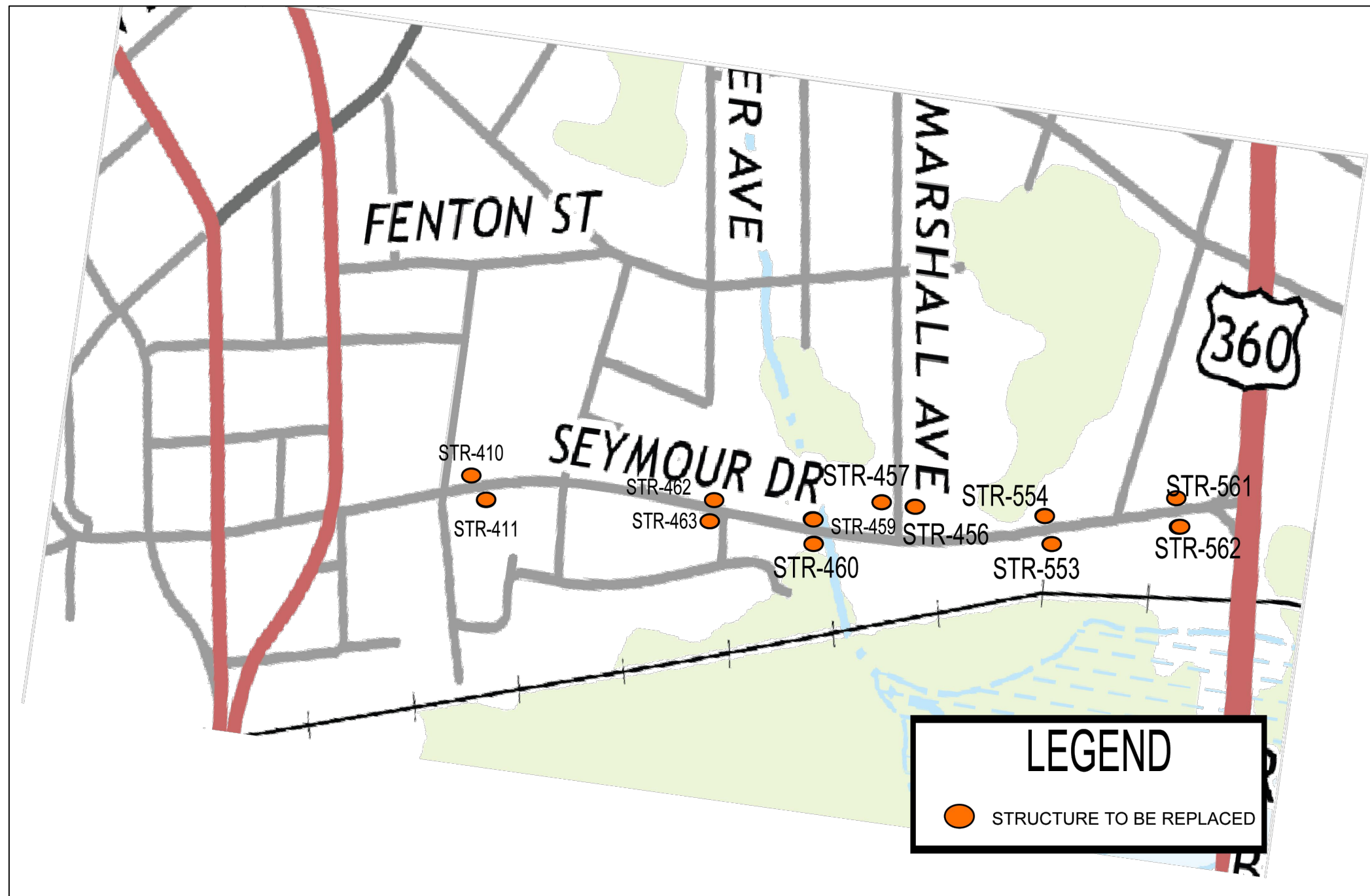
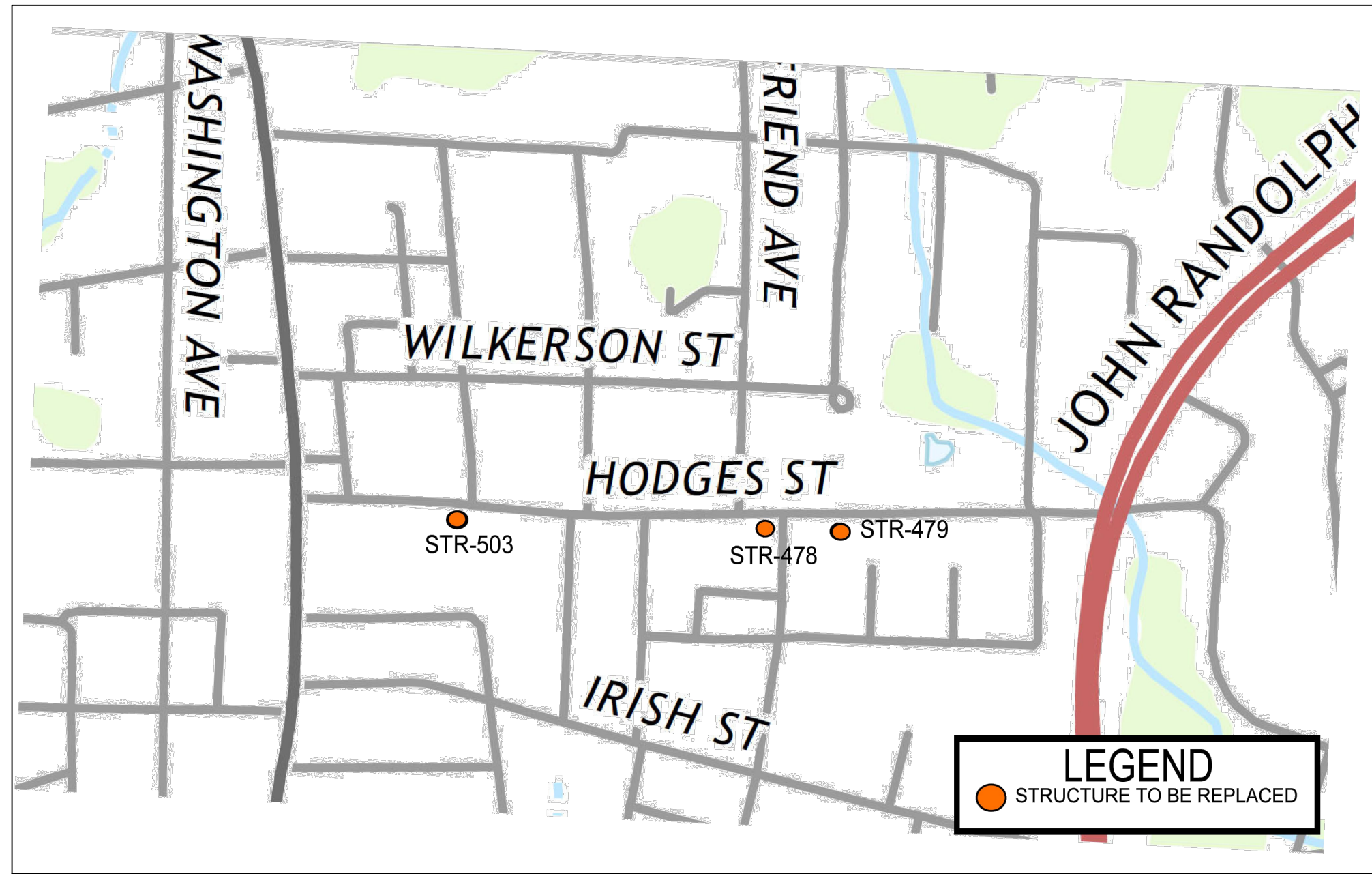
PROJECT NO. 50083060

C-106

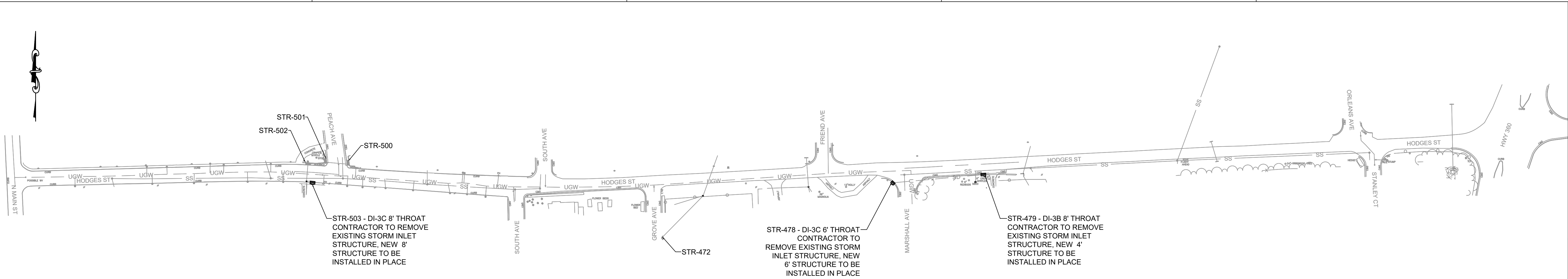
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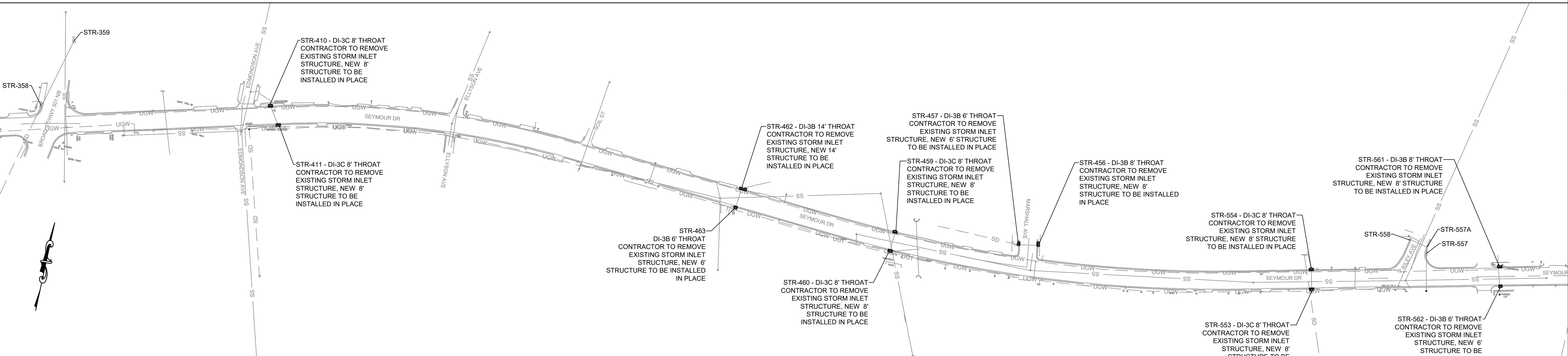


STORMWATER INLET STRUCTURE REPLACEMENT		
STRUCTURE	ROAD	GENERAL CROSS STREET
STR-503	HODGES STREET	PEACH AVE
STR-478	HODGES STREET	WEST SIDE MARSHALL AVE
STR-479	HODGES STREET	EAST FROM MARSHALL AVE APPROX. 150 FT.
STR-410	SEYMOUR DRIVE	EAST FROM EDMONSON AVE APPROX. 40 FT.
STR-411	SEYMOUR DRIVE	EAST FROM EDMONSON AVE APPROX. 50 FT.
STR-463	SEYMOUR DRIVE	EAST FROM ELLYSON AVE APPROX. 605 FT.
STR-457	SEYMOUR DRIVE	EAST FROM ELLYSON AVE APPROX. 605 FT.
STR-459	SEYMOUR DRIVE	WEST FROM MARSHALL AVE APPROX. 260 FT.
STR-456	SEYMOUR DRIVE	WEST FROM MARSHALL AVE APPROX. 260 FT.
STR-554	SEYMOUR DRIVE	EAST SIDE MARSHALL AVE
STR-561	SEYMOUR DRIVE	WEST SIDE MARSHALL AVE
STR-562	SEYMOUR DRIVE	WEST FROM RILEY AVE APPROX. 200 FT.
STR-553	SEYMOUR DRIVE	WEST FROM RILEY AVE APPROX. 200 FT.
STR-554	SEYMOUR DRIVE	WEST FROM RILEY AVE APPROX. 200 FT.
STR-561	SEYMOUR DRIVE	EAST FROM RILEY AVE APPROX. 150 FT.
STR-562	SEYMOUR DRIVE	EAST FROM RILEY AVE APPROX. 150 FT.



HODGES STREET PLAN

SCALE: 1"=100'



SEYMOUR DRIVE

SCALE: 1"=120'

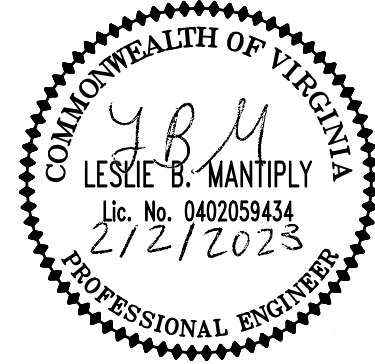


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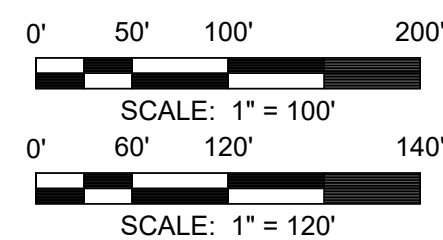
HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE



REVISIONS

NO.	DESCRIPTION	DATE

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APPROVED BY RSE

CHECKED BY LBM

DATE APRIL, 2022

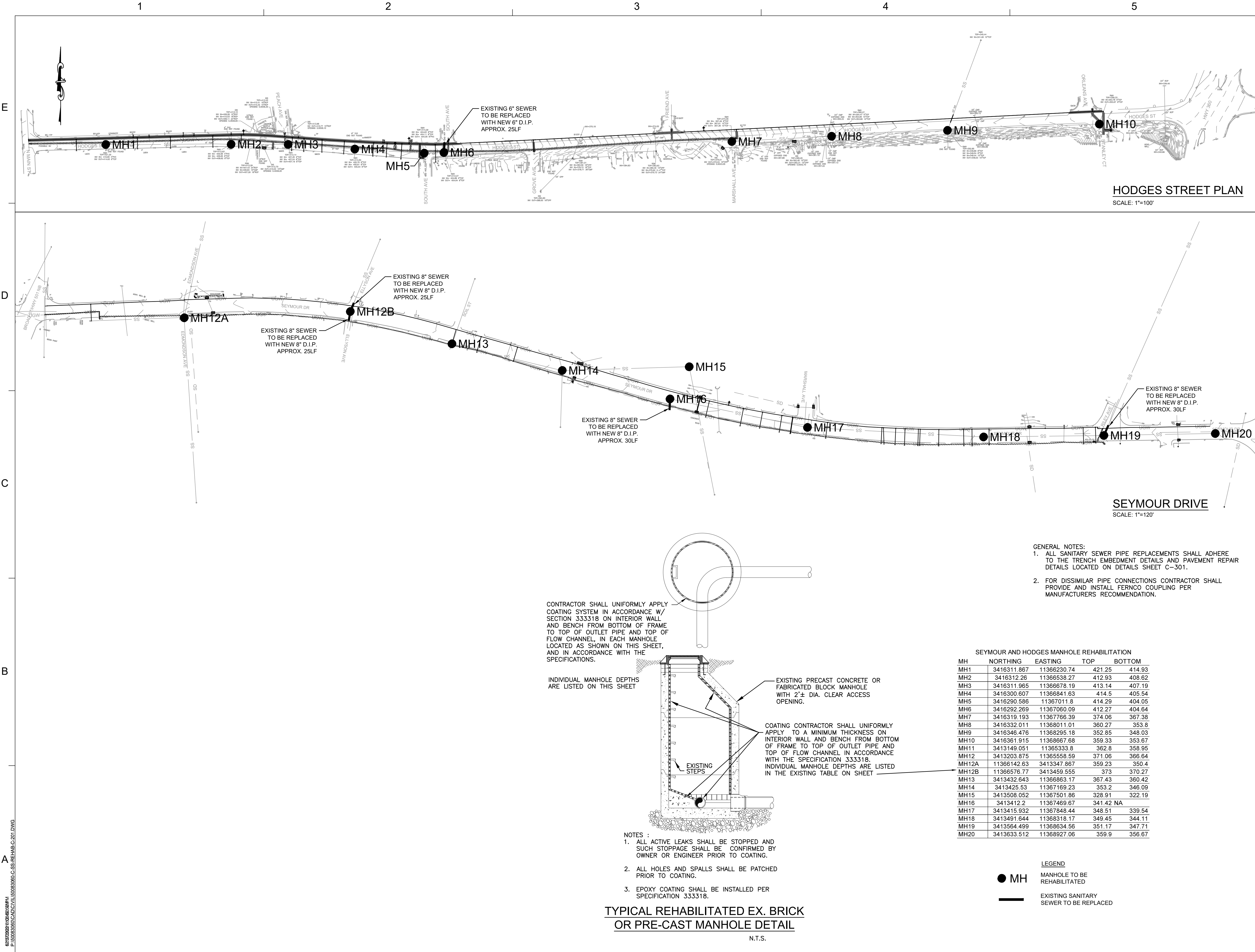
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OVERALL
STORMWATER
INLET
IMPROVEMENTS

PROJECT NO. 50083060

C-200

SHEET NO. 0 OF ---



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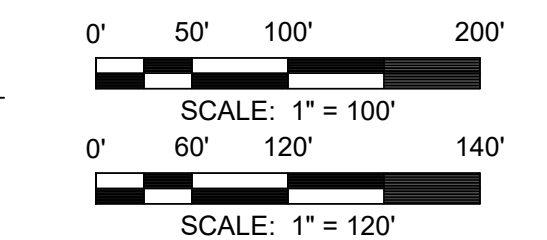
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DATE APRIL, 2022

TITLE

**SANITARY SEWER
MANHOLE & LINE
REHABILITATION
PLAN**

PROJECT NO. 50083060

C-201

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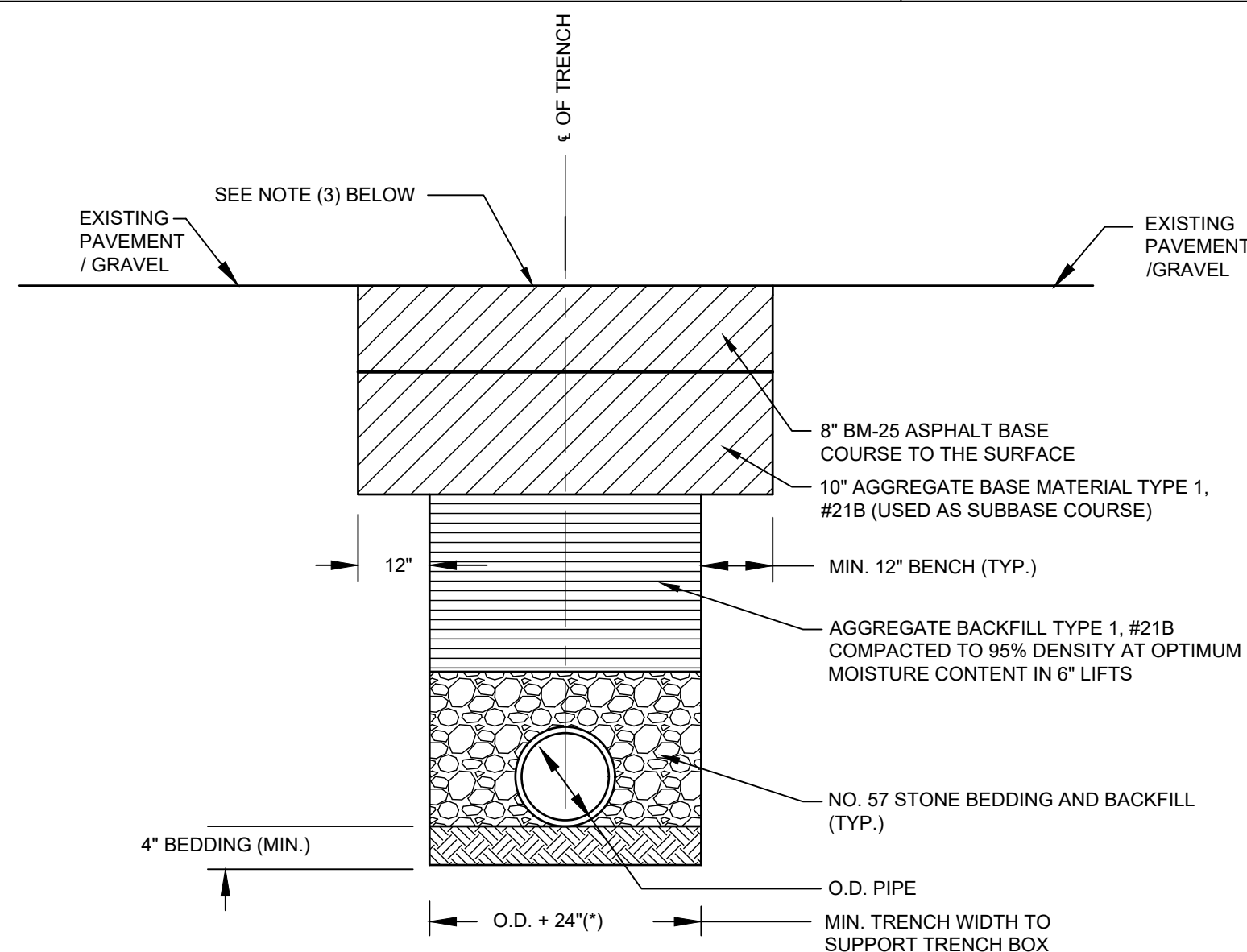
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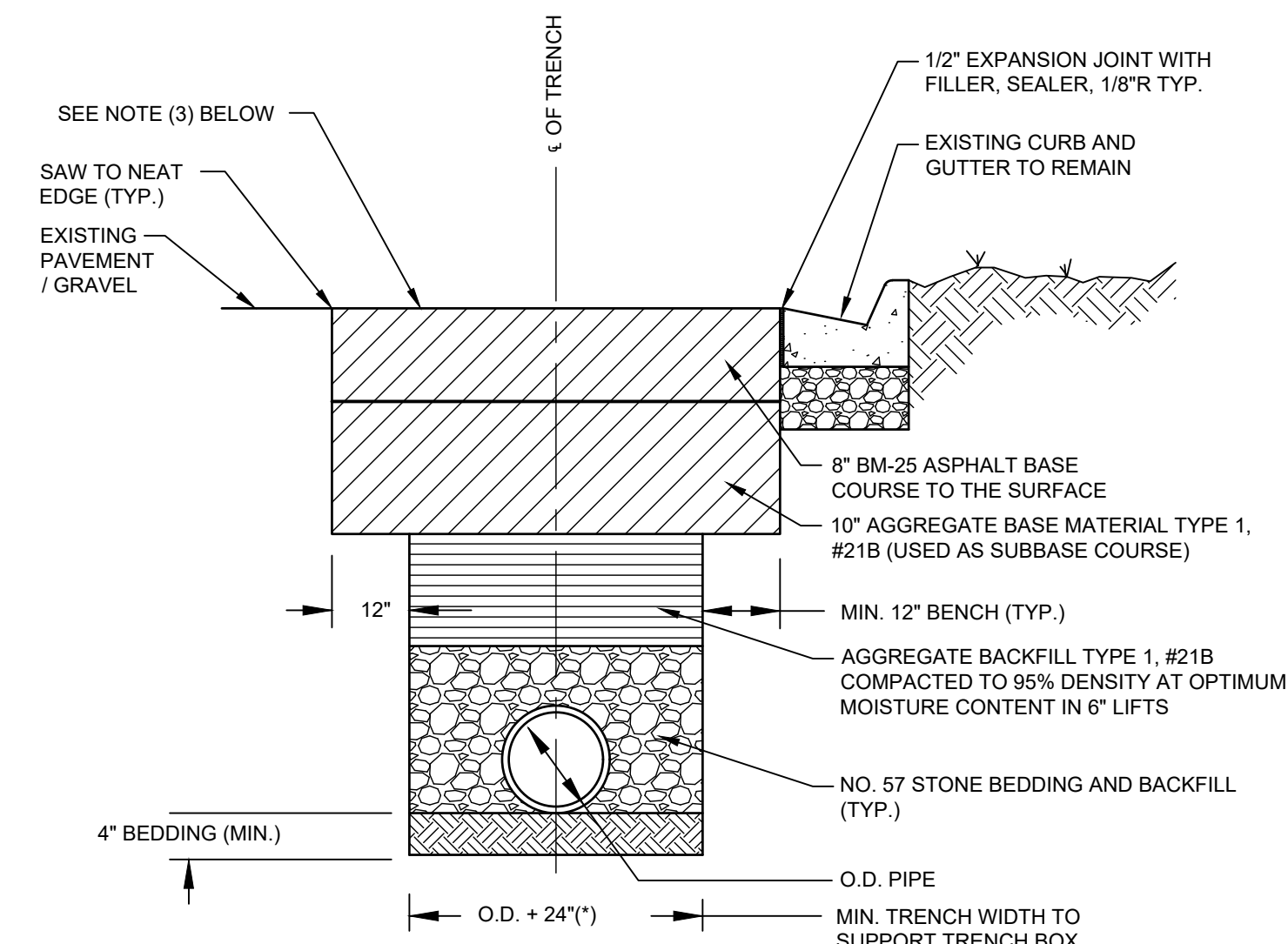
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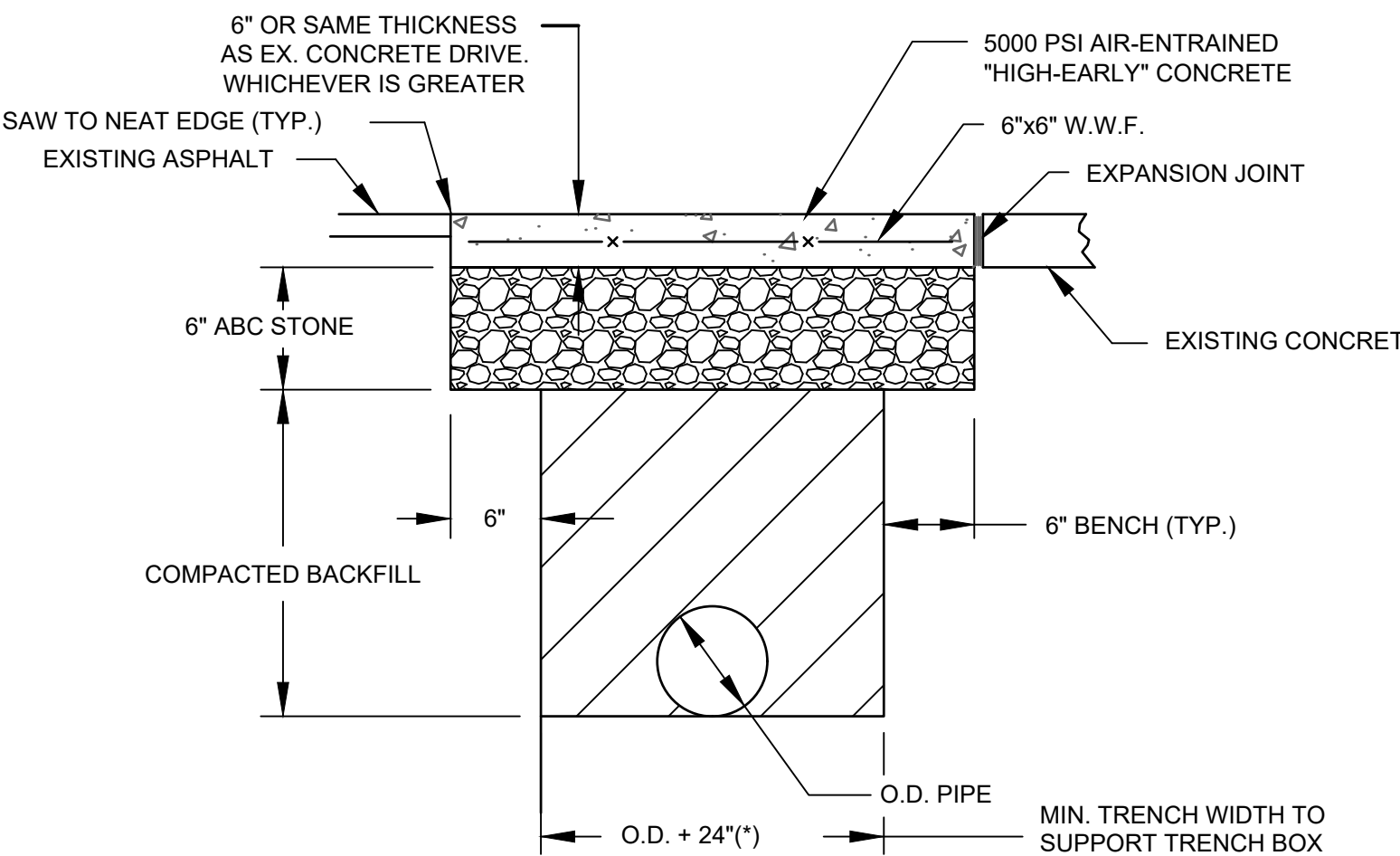
PERPENDICULAR OPEN-CUT DETAIL

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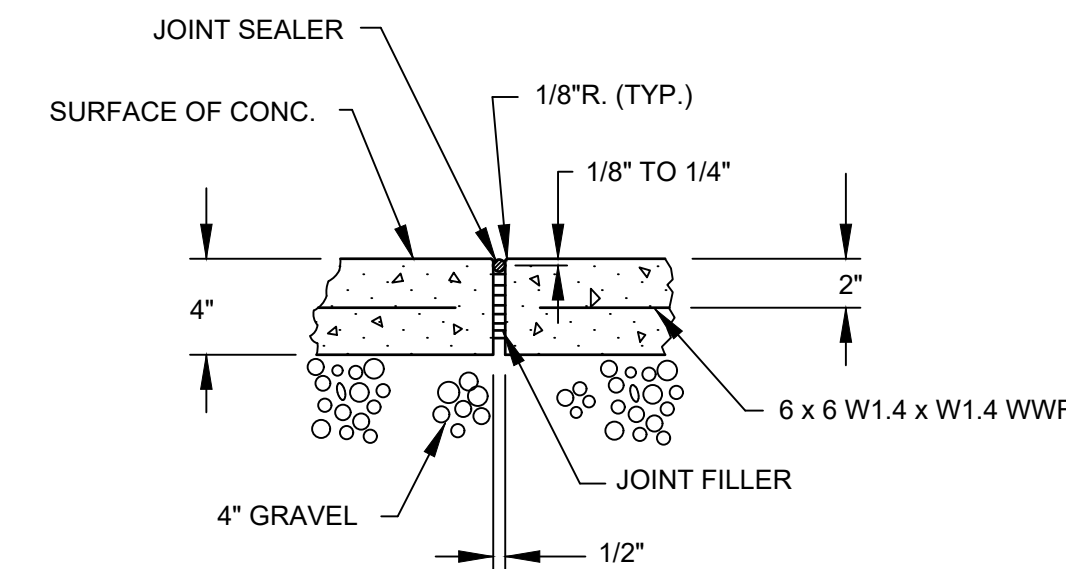
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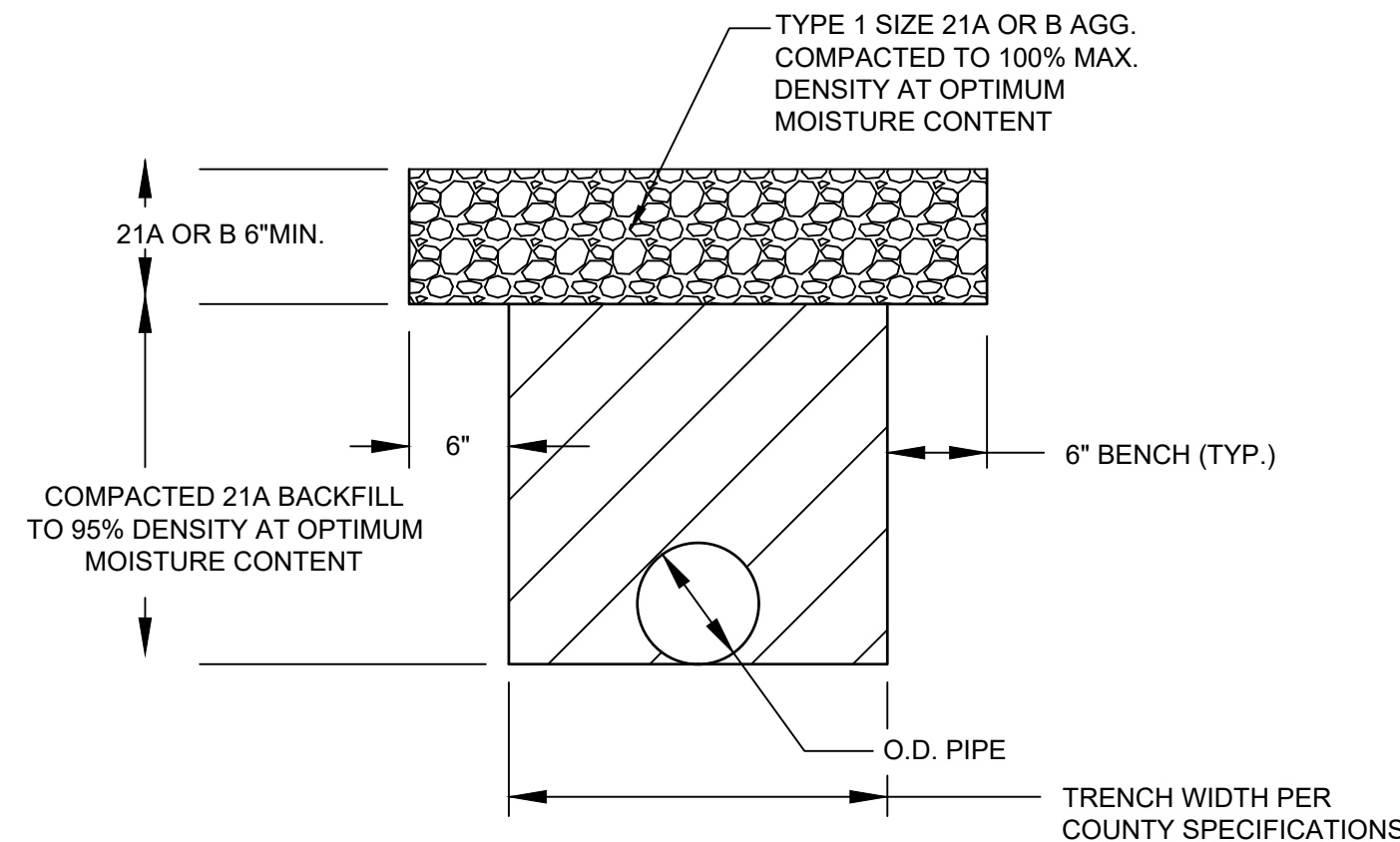
CONCRETE DRIVEWAY REPAIR DETAIL

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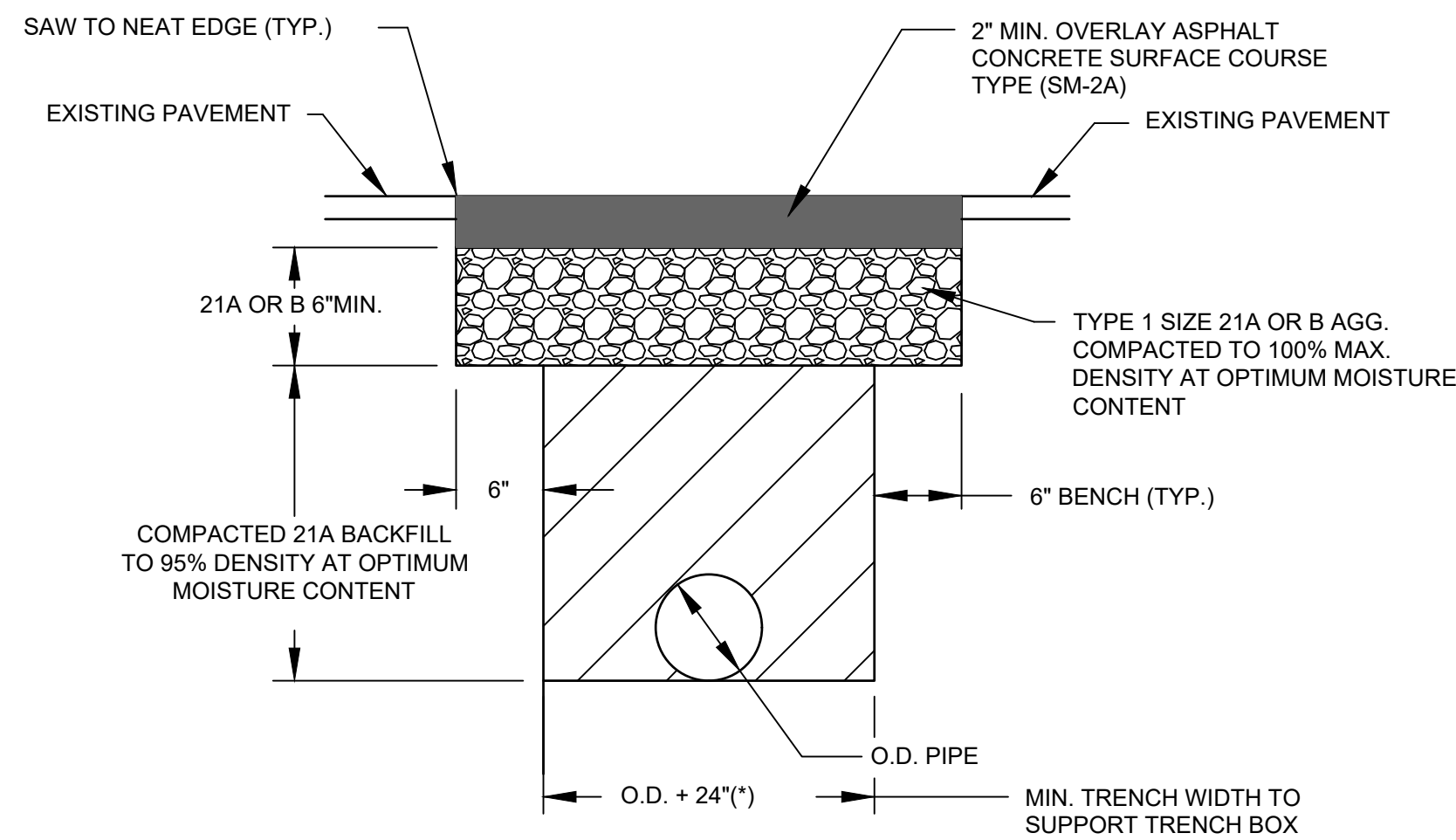
SIDEWALK DETAIL

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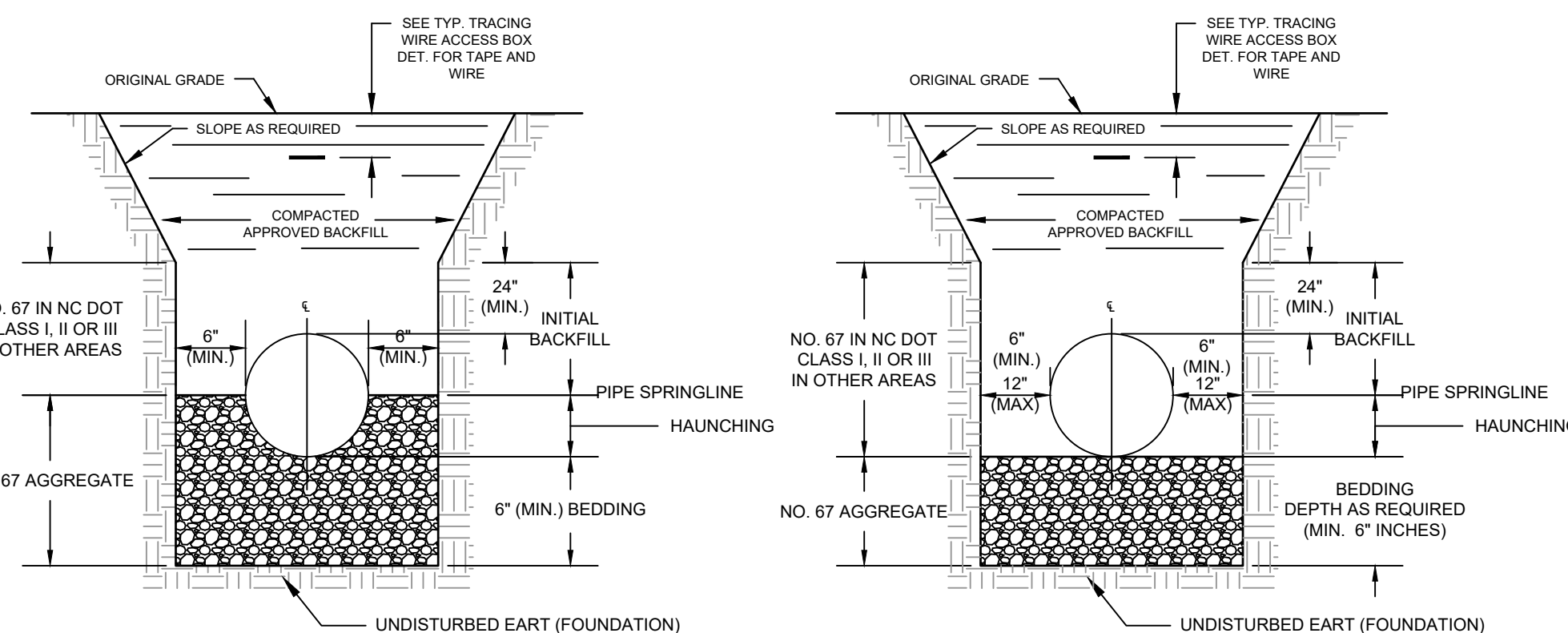
GRAVEL DRIVEWAY REPAIR DETAIL

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ASPHALT DRIVEWAY REPAIR DETAIL

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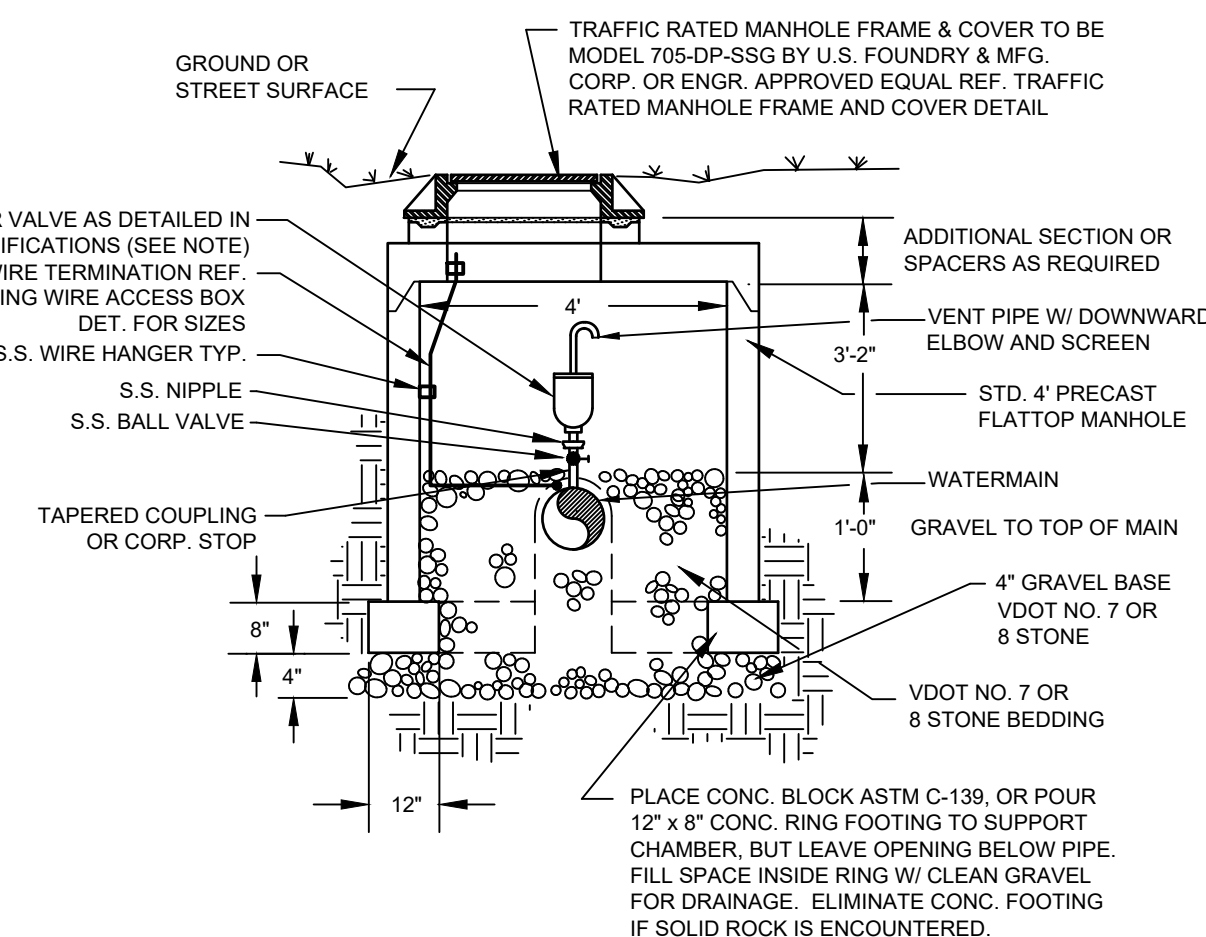
PVC PIPE EMBEDMENT

DIP PIPE EMBEDMENT

TRENCH DETAILS

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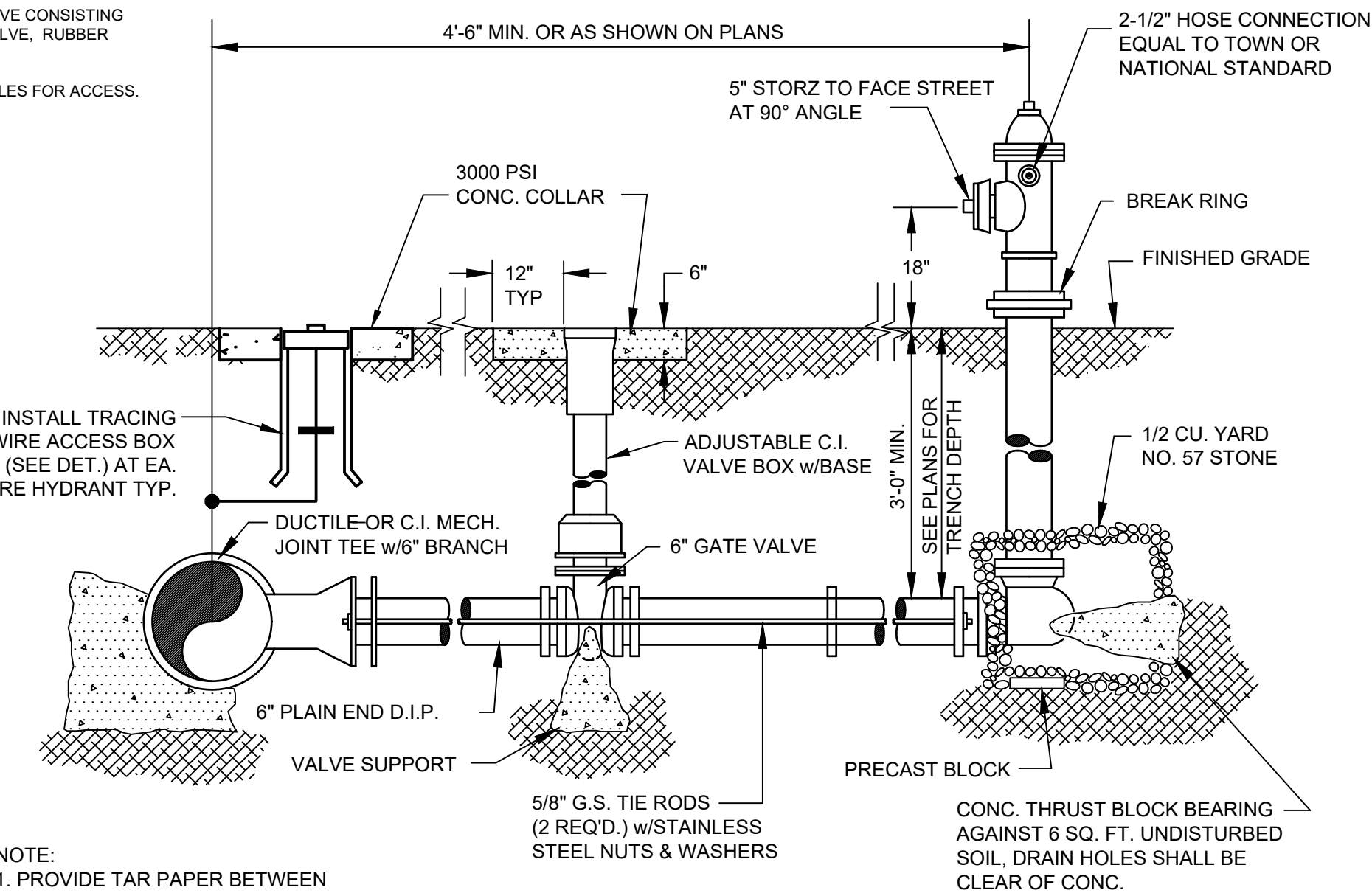
- TRENCH NOTES:
1. THE PAVEMENT CUT SHALL BE DEFINED BY STRAIGHT EDGE AND CUT WITH AN APPROVED SAW-CUT MACHINE.
 2. NO ROCKS OR BOULDERS 2" OR LARGER TO BE USED IN INTIAL BACKFILL, HAUNCHING OR BEDDING UNLESS OTHERWISE SPECIFIED.
 3. NO BOULDERS 6" IN DIAMETER OR GREATER ALLOWED IN FINAL BACKFILL.
 4. ALL BACKFILL MATERIAL SHALL BE SUITABLE NATIVE MATERIAL UNLESS OTHERWISE REQUIRED.
 5. INITIAL BACKFILL SHALL BE TAMPED IN 6" LIFTS.
 6. FINAL BACKFILL SHALL BE CLASS I, II, OR III FOR CCFRPM PIPE TAMPED IN 6" LIFTS REGARDLESS OF LOCATION (EXCLUDING NCDOT RIGHT-OF-WAYS).
 7. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH CITY OF RALEIGH STANDARDS, DETAILS, AND SPECIFICATIONS.
 8. THE ENTIRE THICKNESS AND VERTICAL EDGE OF CUT SHALL BE TACKED.
 9. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH LEVEL PATCH.
 10. NO HAND PATCHING ALLOWED.



AIR RELEASE VALVE DETAIL

NOT TO SCALE

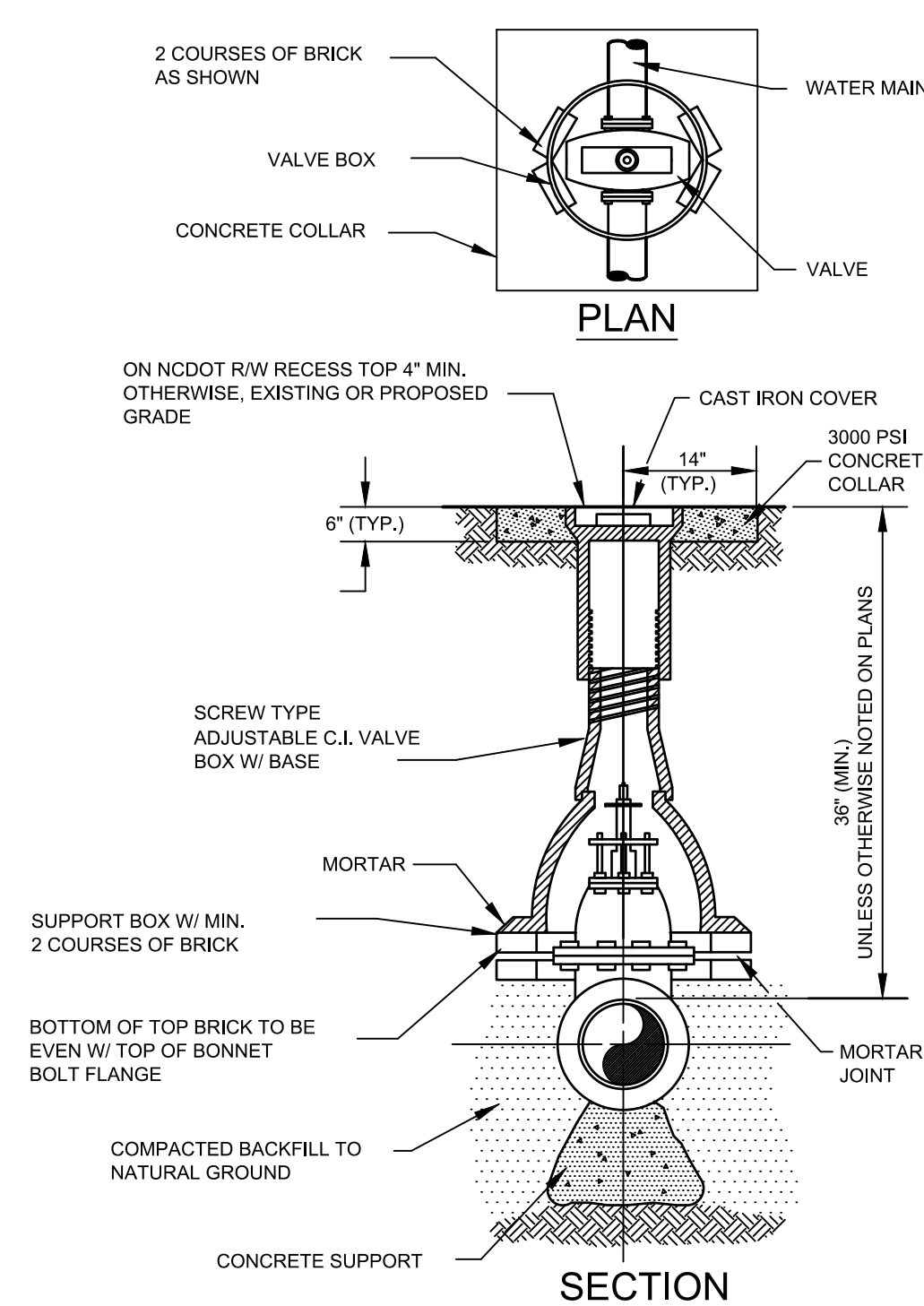
- NOTES:
1. CONTRACTOR SHALL COORDINATE W/ENGINEER AND OWNER FOR PLACEMENT OF AIR RELEASE VALVES AT ALL LOCATIONS AIR RELEASE VALVES SHALL BE PLACED BEHIND GUARDRAILS AND DITCHES, AND NOT IN FILL SLOPES OR CUT SLOPES.
 2. PROVIDE BASKWASH ACCESSORIES ASSEMBLED TO VALVE CONSISTING OF A 90° EL. A SHUT OFF VALVE, CLEARWATER INLET VALVE, RUBBER SUPPLY HOSE AND QUICK DISCONNECT COUPLINGS.
 3. TRACER WIRE SHALL BE BROUGHT UP INTO ARV MANHOLES FOR ACCESS.



TYPICAL FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

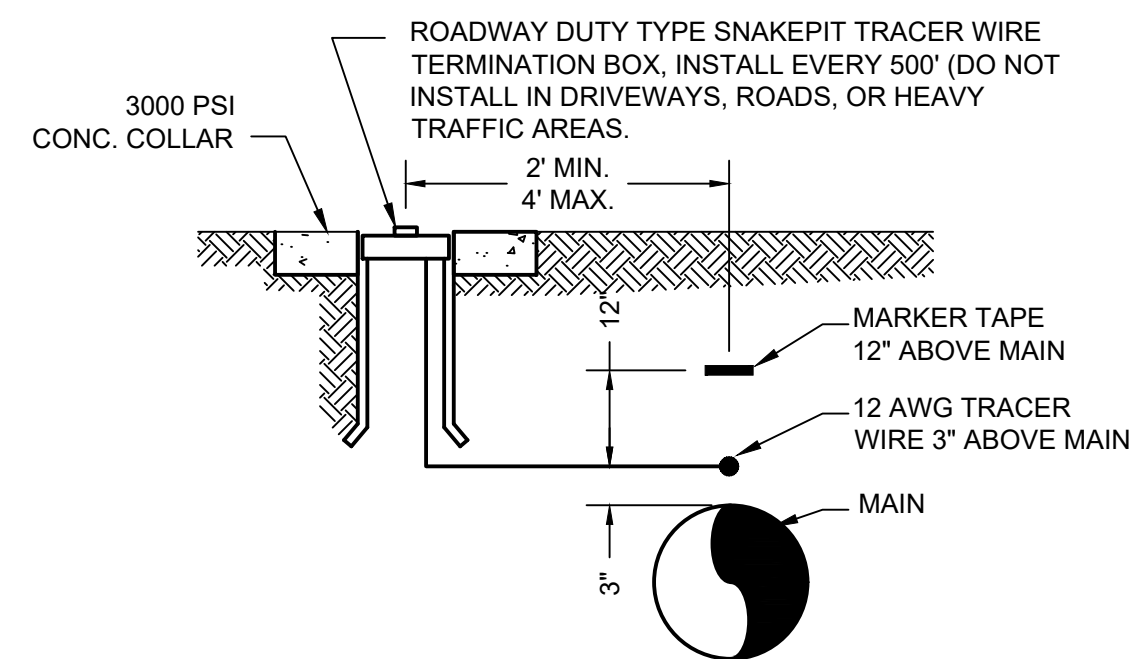
NOTE: WHERE REFERENCED ON PLANS HYDRANTS BEING USED FOR BLOWOFFS IN LOW-LYING AREAS CONTRACTOR SHALL SUPPLY KNOX FDC AND STORZ LOCKS ON EACH CAP AND MCGARD HYDRANT OPERATING NUT LOCK (OR EQUAL).



TYPICAL VALVE SETTING DETAIL

SCREW TYPE

NOT TO SCALE



TYPICAL TRACER WIRE ACCESS BOX DETAIL

NOT TO SCALE

NOTE: ROADWAY DUTY RATED SNAKEPIT TRACER WIRE TERMINATION BOX AT EVERY 500' AND/OR TERMINATE INTO AIR RELEASE VALVE BOX



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SOUTH BOSTON, VIRGINIA

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KEY PLAN

SCALE

AS NOTED

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DATE APRIL, 2022

TITLE

DETAILS

PROJECT NO. 50083060

C-301

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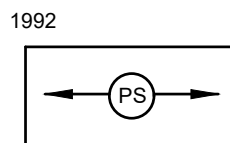
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STD & SPEC 3.32 PERMANENT SEEDING

DEFINITION
THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS BY PLANTING SEED.
PURPOSES
1. TO REDUCE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.
2. TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THAT IS ECONOMICAL, ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.
3. TO IMPROVE WILDLIFE HABITAT.
4. TO ENHANCE NATURAL BEAUTY.
CONDITIONS WHERE PRACTICE APPLIES
1. DISTURBED AREAS WHERE PERMANENT, LONG-LIVED VEGETATIVE COVER IS NEEDED TO STABILIZE THE SOIL.
2. ROUGH-GRADED AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.

LAND USE: A PRIME CONSIDERATION IN SELECTING WHICH PLANTS TO ESTABLISH IS THE INTENDED USE OF THE LAND. ALL OF THESE USES—RESIDENTIAL, INDUSTRIAL, COMMERCIAL, RECREATIONAL—CAN BE SEPARATED INTO TWO MAJOR CATEGORIES: HIGH-MAINTENANCE AND LOW-MAINTENANCE.

HIGH-MAINTENANCE AREAS WILL BE MOVED FREQUENTLY, LIMED AND FERTILIZED REGULARLY, AND WILL EITHER RECEIVE INTENSE USE (e.g., ATHLETIC) OR REQUIRE MAINTAINING TO AN AESTHETIC STANDARD (HOME LAWNS). GRASSES USED FOR THESE SITUATIONS MUST BE PNEULATED AND ATTRACTIVE IN APPEARANCE, ABLE TO FORM TIGHT SOIL, AND BE LONG-LIVED PERENNIALS. THEY MUST BE WELL-ADAPTED TO THE GEOGRAPHIC AREA WHERE THEY ARE PLANTED, BECAUSE CONSTANT MOVING PUTS TURF UNDER GREAT STRESS. SITES WHERE HIGH-MAINTENANCE VEGETATIVE COVER IS DESIRABLE INCLUDE HOMES, INDUSTRIAL PARKS, SCHOOLS, CHURCHES, ATHLETIC PLAYING SURFACES AS WELL AS SOME RECREATIONAL AREAS.

LOW-MAINTENANCE AREAS WILL BE MOVED INFREQUENTLY OR NOT AT ALL, AND FERTILIZER MAY NOT BE APPLIED ON A REGULAR BASIS. THE AREAS WILL NOT BE SUBJECTED TO INTENSE USE, NOR REQUIRED TO HAVE A UNIFORM APPEARANCE. THESE PLANTS MUST BE ABLE TO PERSIST WITH LITTLE MAINTENANCE OVER LONG PERIODS OF TIME. GRASS AND LEGUME MIXTURES ARE FAVORABLE FOR THESE SITES BECAUSE LEGUMES ARE CAPABLE OF FIXING NITROGEN FROM THE AIR FOR THEIR OWN USE, AND THE USE OF PLANTS AROUND THEM. SUCH MIXED STANDS ARE BETTER ABLE TO WITHSTAND ADVERSE CONDITIONS. SITES WHICH WOULD BE SUITABLE FOR LOW-MAINTENANCE VEGETATION INCLUDE STEEP SLOPES, STREAM OR CHANNEL BANKS, SOME COMMERCIAL PROPERTIES, AND UTILITY TURF AREAS SUCH AS ROADBANKS.

TABLE 3.32-D
SITE SPECIFIC SEEDING MIXTURES FOR PIEDMONT AREA

MINIMUM CARE LAWN		
- COMMERCIAL, OR RESIDENTIAL - KENTUCKY 31 OR TURF-TYPE TALL FESCUE - IMPROVED PERENNIAL RYEGRASS - KENTUCKY BLUEGRASS	175-200 LBS./AC. 0-5% 0-5%	95-100% 0-5% 0-5%
HIGH-MAINTENANCE LAWN	200-250 LBS./AC. - KENTUCKY 31 OR TURF-TYPE FESCUE	100%
GENERAL SLOPE (3:1 OR LESS)	- KENTUCKY 31 FESCUE - RED TOP GRASS - SEASONAL NURSE CROP *	125 LBS. 2 LBS. 20 LBS. 20 LBS. 150 LBS./AC.
LOW-MAINTENANCE SLOPE (STEEPER THAN 3:1)	- KENTUCKY 31 FESCUE - RED TOP GRASS - SEASONAL NURSE CROP * - CROWWETCH **	108 LBS. 2 LBS. 20 LBS. 20 LBS. 150 LBS./AC.

* USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:

	ANNUAL EYE	EDUCATIONAL EYE
FEBRUARY 16TH THROUGH APRIL	ANNUAL EYE	EDUCATIONAL EYE
MAY 1ST THROUGH AUGUST 15TH	ANNUAL EYE	EDUCATIONAL EYE
AUGUST 16TH THROUGH OCTOBER	ANNUAL EYE	EDUCATIONAL EYE
NOVEMBER THROUGH FEBRUARY 15TH	ANNUAL EYE	EDUCATIONAL EYE

** SUBSTITUTE SERICEA LESPEDEZA FOR CROWWETCH EAST OF FARMVILLE, VA. IN MAY THROUGH SEPTEMBER USE HULLED SERICEA. ALL OTHER PERIODS, USE UNHULLED SERICEA. IF FLATPEA IS USED IN LOW LEVEL OF CROWWETCH, INCREASE RATE TO 30 LBS./ACRE. ALL LEGUME SEED MUST BE PROPERLY INOCULATED. WEEPING LOVEGRASS MAY BE ADDED TO ANY SLOPE OR LOW-MAINTENANCE MIX DURING WARMER SEEDING PERIODS. ADD 10 LBS./ACRE IN MIXES.

STD & SPEC 3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE

CONSTRUCTION SPECIFICATIONS

THE AREA OF THE ENTRANCE MUST BE EXCAVATED A MINIMUM OF 3 INCHES AND MUST BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL. THE FILTER FABRIC UNDERLIER WILL THEN BE PLACED THE FULL WIDTH AND LENGTH OF THE ENTRANCE.

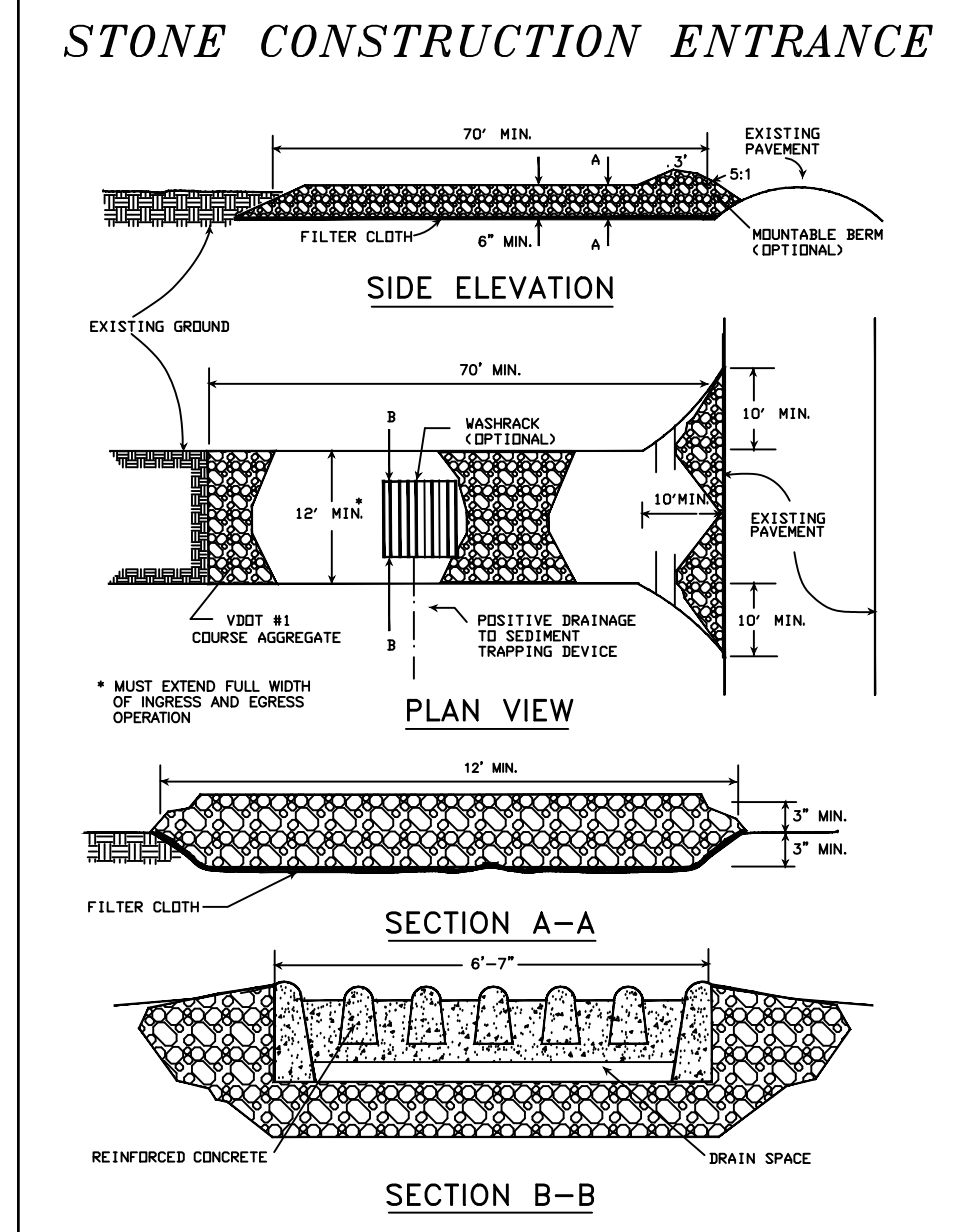
FOLLOWING THE INSTALLATION OF THE FILTER CLOTH, THE STONE SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS. CONVEYANCE OF SURFACE WATER UNDER ENTRANCE, THROUGH CULVERTS, SHALL BE PROVIDED AS REQUIRED. IF SUCH CONVEYANCE IS IMPOSSIBLE, THE CONSTRUCTION OF A 'MOUNTABLE' BERM WITH 5:1 SLOPES WILL BE PERMITTED.

THE FILTER CLOTH UTILIZED SAHLL BA A WOVEN OR NONWOVEN FABRIC CONSISTING ONLY OF CONTINUOUS CHAIN POLYMERIC FILAMENTS OR YARNS OF POLYESTER. THE FABRIC SHALL BE INERT TO COMMONLY ENCOUNTERED CHEMICALS AND HYDROCARBONS, BE MILDWEAR AND ROT RESISTANT, AND CONFORM TO THE PHYSICAL PROPERTIES NOTED IN TABLE 3.02-A.

MAINTENANCE

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED ONTO ROADWAYS OR ONTO ROADWAY DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.

CE



SOURCE: MARYLAND WATER RESOURCES ADMINISTRATION
VA. DOWC PLATE 3.2-1

LIME AND FERTILIZER

LIME AND FERTILIZER NEEDS SHOULD BE DETERMINED BY SOIL TESTS. SOIL TESTS MAY BE PERFORMED BY THE COOPERATIVE EXTENSION SERVICE SOIL TESTING LABORATORY AT VPI & SU OR BY A REPUTABLE COMMERCIAL LABORATORY. INFORMATION CONCERNING THE STATE SOIL TESTING LABORATORY IS AVAILABLE FROM COUNTY EXTENSION AGENTS.

UNDER UNUSUAL CONDITIONS WHERE IT IS NOT POSSIBLE TO OBTAIN A SOIL TEST, THE FOLLOWING SOIL ADJUSTMENTS WILL BE APPLIED:

LIME

PIEDMONT AND APPALACHIAN REGION: 2 TONS/ACRE FLUORVIVATED AGRICULTURAL GRADE LIMESTONE (90 LBS./1000 FT.)

NOTE: AN AGRICULTURAL GRADE OF LIMESTONE SHOULD ALWAYS BE USED.

FERTILIZER

MIXED GRASSES & LEGUMES: 100 LBS./ACRE 10-20-10 OR EQUIVALENT, NUTRIENTS (23 LBS./1000 FT.)

LEGUME STANDS ONLY: 100 LBS./ACRE 5-20-10 (23 LBS./1000 FT.) IS PREFERRED; HOWEVER, 1000 LBS./ACRE OF 10-20-10 OR EQUIVALENT MAY BE USED.

GRASS STANDS ONLY: 1000 LBS./ACRE 10-20-10 OR EQUIVALENTS, (23 LBS./1000 FT.)

OTHER FERTILIZER FORMULATIONS, INCLUDING SLOW-RELEASE SOURCES OF NITROGEN (PREFERRED FROM A WATER QUALITY STANDPOINT), MAY BE USED PROVIDED THEY CAN SUPPLY THE SAME AMOUNTS AND PROPORTIONS OF PLANT NUTRIENTS.

MAINTENANCE OF NEW SEEDING

IN GENERAL, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL IT HAS BEEN MAINTAINED FOR ONE FULL YEAR AFTER PLANTING.

IRRIGATION: NEW SEEDINGS SHOULD BE SUPPLIED WITH ADEQUATE MOISTURE. SURFACE WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PREVENT EXCESSIVE RUNOFF. INADEQUATE AMOUNTS OF WATER MAY BE MORE HARMFUL THAN NO WATER.

RE-SEEDING: INSPECT SEEDING AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RE-SEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE.

a. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS.

b. IF A STAND HAS LESS THAN 40% COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. THE SOIL MUST BE TESTED TO DETERMINE IF ACIDITY OR NUTRIENT IMBALANCES ARE RESPONSIBLE. RE-ESTABLISH THE STAND FOLLOWING SEEDING PREPARATION AND SEEDING RECOMMENDATIONS.

FERTILIZATION: COOL SEASON GRASSES SHOULD BE GIVEN 100 LBS./ACRE 30-30-30 AFTER PLANTING TO ENSURE PROPER STAND AND DENSITY. WARM SEASON FERTILIZATION SHOULD BEGIN AT 30 DAYS AFTER PLANTING.

APPLY MAINTENANCE LEVELS OF FERTILIZER AS DETERMINED BY SOIL TEST. IN THE ABSENCE OF A SOIL TEST, FERTILIZATION SHOULD BE AS FOLLOWS:

COOL SEASON GRASSES

4 LBS. NITROGEN (N)
1 LB. PHOSPHORUS (P)
2 LBS. POTASH (K)
PER 1000 FT. PER YEAR

SEVENTY-FIVE PERCENT OF THE TOTAL REQUIREMENTS SHOULD BE APPLIED BETWEEN SEPTEMBER 1 AND DECEMBER 31st. THE BALANCE SHOULD BE APPLIED DURING THE REMAINDER OF THE YEAR. MORE THAN 1 LB. OF SOLUBLE NITROGEN PER 1000 FT. SHOULD NOT BE APPLIED AT ANY ONE TIME.

WARM SEASON GRASSES

APPLY 4-5 LBS. NITROGEN (N) BETWEEN MAY 1 AND AUGUST 15th PER 1000 FT. PER YEAR

PHOSPHORUS (P) AND POTASH (K) SHOULD ONLY BE APPLIED ACCORDING TO SOIL TEST.

NOTE: THE USE OF SLOW-RELEASE FERTILIZER FORMULATIONS FOR MAINTENANCE OF TURF IS ENCOURAGED TO REDUCE THE NUMBER OF APPLICATIONS AND THE IMPACT ON GROUNDWATER.

SEED QUALITY CRITERIA

WHERE CERTIFIED SEED IS NOT AVAILABLE, THE MINIMUM REQUIREMENTS FOR GRASS AND LEGUME SEED USED IN VEGETATIVE ESTABLISHMENT ARE AS FOLLOWS:

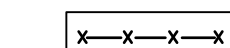
a. ALL TAGS ON CONTAINERS OF SEED SHALL BE LABELED TO MEET THE REQUIREMENTS OF THE STATE SEED LAW.

b. ALL SEED SHALL BE SUBJECT TO RE-TESTING BY A RECOMMENDED SEED LABORATORY THAT EMPLOYS A REGISTERED SEED TECHNOLOGIST OR BY A STATE SEED LAB.

c. ALL SEED USED SHALL HAVE BEEN TESTED WITHIN TWELVE (12) MONTHS.

d. INOCULANT: THE INOCULANT ADDED TO LEGUME SEED IN THE SEED MIXTURES SHALL BE A PURE CULTURE OF NITROGEN-FIXING BACTERIA PREPARED FOR THE SPECIES. INOCULANTS SHALL NOT BE USED LATER THAN THE DATE INDICATED ON THE CONTAINER. TWICE THE SUPPLIER'S RECOMMENDED RATE OF INOCULANT WILL BE USED ON DRY SEEDINGS, FIVE TIMES THE RECOMMENDED RATE IF HYDROSEEDING.

e. THE QUALITY OF THE SEED USED SHALL BE SHOWN ON THE BAG TAGS TO CONFORM TO THE GUIDELINES IN TABLE 3.32-E (VA. EROSION AND SEDIMENT CONTROL HANDBOOK)



STD & SPEC 3.05 SILT FENCE

SF

MATERIALS

1. SYNTHETIC FILTER FABRIC SHALL BE A PREVIOUS SHEET OF PROPYLENE, NYLON, POLYESTER OR ETHYLENE YARN AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE REQUIREMENTS NOTED IN TABLE 3.05-B.
2. SYNTHETIC FILTER FABRIC SHALL CONTAIN ULTRAVIOLET RAY INHIBITORS AND STABILIZERS TO PROVIDE A MINIMUM OF SIX MONTHS OF EXPECTED USABLE CONSTRUCTION LIFE AT A TEMPERATURE RANGE OF 0° F. TO 120° F.
3. IF WOODEN STAKES ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A DIAMETER OF 3 INCHES WHEN OAK IS USED AND 4 INCHES WHEN PINE IS USED. WOODEN STAKES MUST HAVE A MINIMUM LENGTH OF 3 FEET.
4. IF STEEL POSTS (STANDARD 1/2" OR 1" SECTION) ARE UTILIZED FOR SILT FENCE CONSTRUCTION, THEY MUST HAVE A MINIMUM WEIGHT OF 1.33 POUNDS PER LINEAR FOOT AND SHALL HAVE A MINIMUM LENGTH OF 5 FEET.
5. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD-STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE AND SHALL HAVE A MAXIMUM MESH SPACING OF 6 INCHES.

CONSTRUCTION SPECIFICATIONS

INSTALLATION

1. THE HEIGHT OF A SILT FENCE SHALL BE A MINIMUM OF 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE AND SHALL NOT EXCEED 34 INCHES ABOVE GROUND ELEVATION.
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE UNAVOIDABLE, FILTER CLOTH SHALL BE SPliced TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6-INCH OVERLAP, AND SECURELY SEALED.
3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4-INCHES WIDE AND 4-INCHES DEEP ON THE UPSLOPE SIDE OF THE PROPOSED LOCATION OF THE BARRIER.
4. WHEN WIRE SUPPORT IS USED, STANDARD-STRENGTH FILTER CLOTH MAY BE USED. POSTS FOR THIS TYPE OF INSTALLATION SHALL BE PLACED A MAXIMUM OF 10-FOOT APART (SEE PLATE 3.05-1). THE WIRE MESH FENCE MUST BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST ONE INCH LONG TIE WIRES OR HOE RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF TWO INCHES AND SHALL NOT EXTEND MORE THAN 24-INCHES ABOVE THE ORIGINAL GROUND SURFACE. THE STANDARD-STRENGTH FABRIC SHALL BE STAPLED OR WIED TO THE WIRE FENCE, AND 8-INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
5. WHEN WIRE SUPPORT IS NOT USED, EXTRA-STRENGTH FILTER CLOTH SHALL BE USED. POSTS FOR THIS TYPE OF FILTER FABRIC SHALL BE PLACED A MAXIMUM OF 6-FOOT APART (SEE PLATE 3.05-2). THE FILTER FABRIC SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING ONE INCH LONG (MINIMUM) HEAVY DUTY WIRE STAPLES OR TIE WIRES AND EIGHT INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. THIS METHOD OF INSTALLATION HAS BEEN FOUND TO BE MORE COMPLICATED THAN #4.
6. IF A SILT FENCE IS TO BE CONSTRUCTED ACROSS A DITCH LINE OR SWALE, THE MEASURE MUST BE OF SUFFICIENT LENGTH TO ELIMINATE ENDFLOW, AND THE PLAN CONFIGURATION SHALL RESEMBLE AN ARC OR HORSESHOE WITH THE ENDS ORIENTED UPSLOPE (SEE PLATE 3.05-2). EXTRA-STRENGTH FILTER FABRIC SHALL BE USED FOR THIS APPLICATION WITH A MAXIMUM 3-FOOT SPACING OF POSTS. ALL OTHER INSTALLATION REQUIREMENTS NOTED IN #4 APPLY.
7. THE 4-INCH BY 4-INCH TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC. PLANTS THAT HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
8. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

2. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING.

3. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

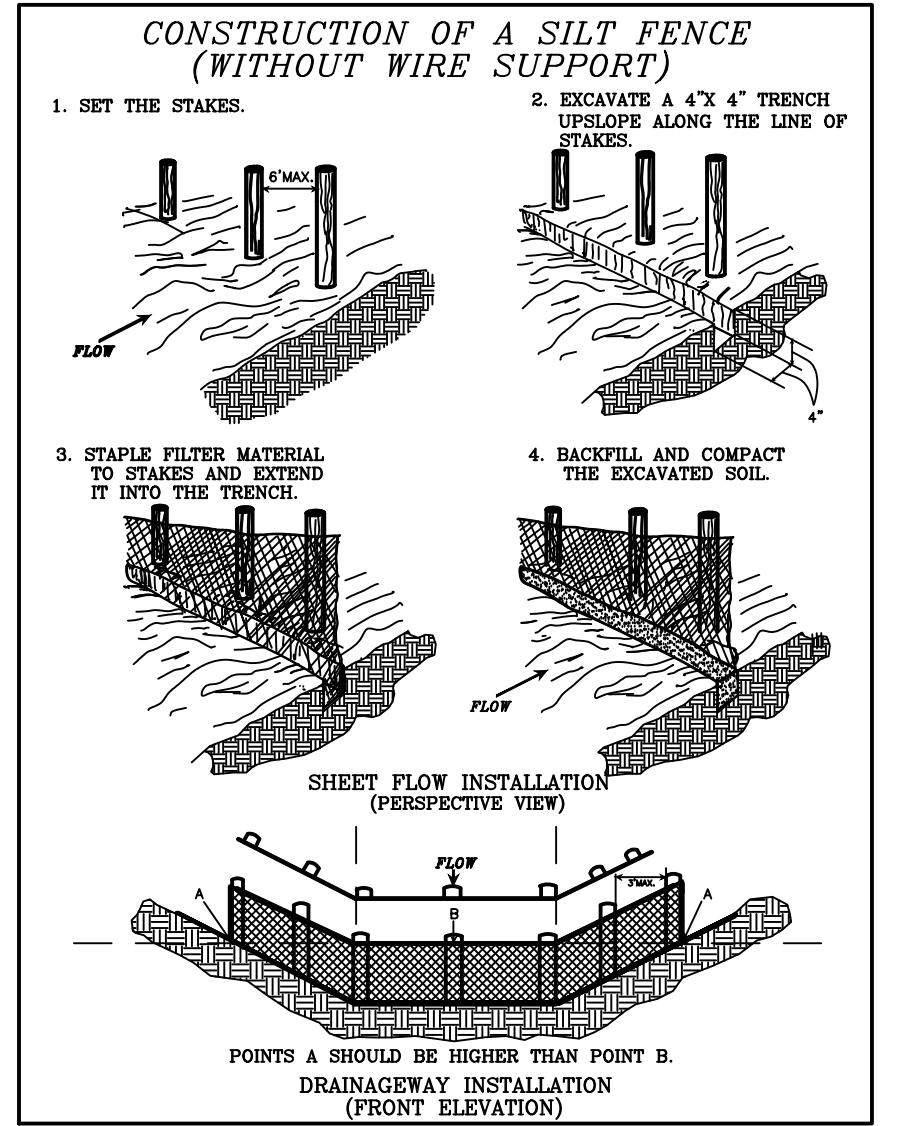
4. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.

5. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

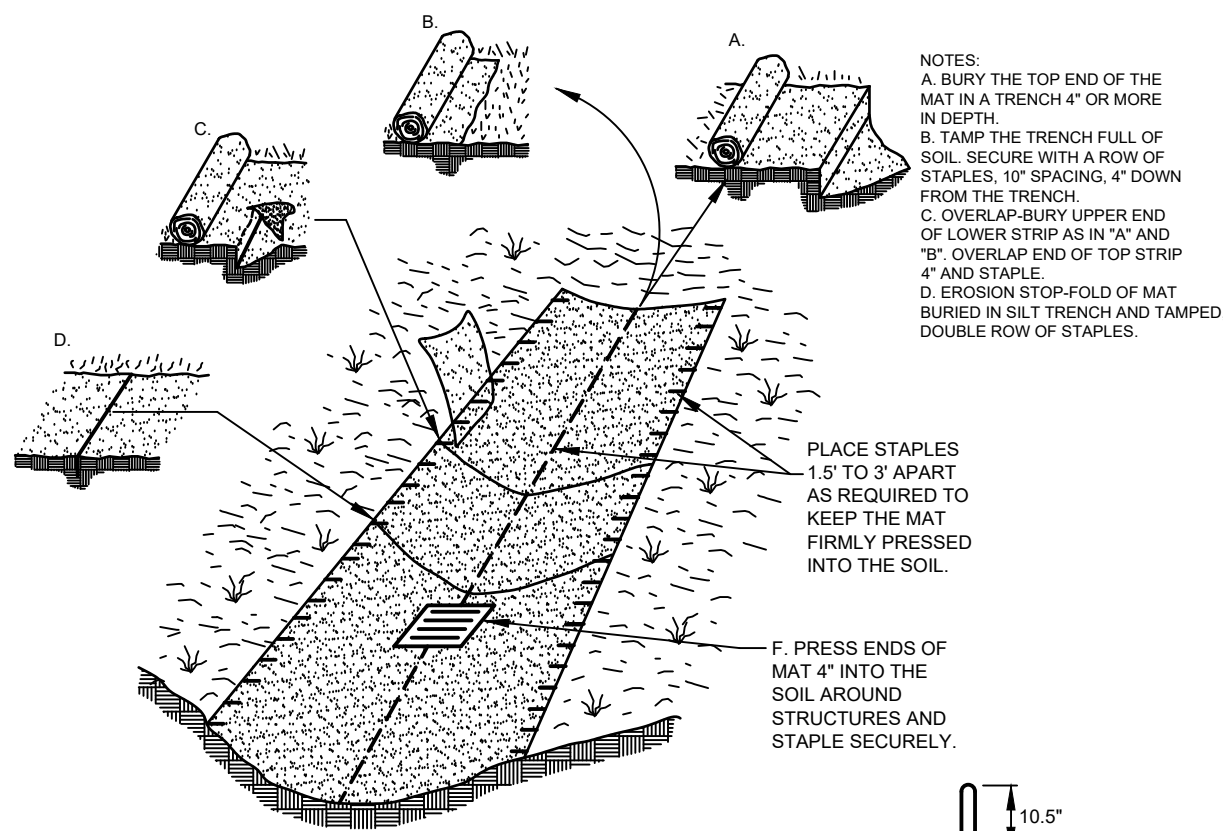
TABLE 3.05-B
PHYSICAL PROPERTIES OF
FILTER FABRIC IN SILT FENCE

PHYSICAL PROPERTY	TEST	REQUIREMENTS
FILTERING EFFICIENCY	ASTM 5141	75% (MINIMUM)
TENSILE STRENGTH AT 20X MAX. ELONGATION*	VTM-52	EXTRA STRENGTH 50 LBS./LINEAR INCH (MINIMUM)
		STANDARD STRENGTH- 30 LBS./LINEAR INCH (MINIMUM)
FLOW RATE	ASTM 5141	0.20 GAL. SQ. FT. / MINUTE (MINIMUM)
ULTRAVIOLET RADIATION STABILITY %	ASTM-G-26	90% (MINIMUM)

* REQUIREMENTS REDUCED BY 50% AFTER SIX MONTHS OF INSTALLATION.



SOURCE: VA. DOWC PLATE 3.5-2



DETAIL FOR STABILIZING CHANNEL WITH EXCELSIOR MAT

NTS

STD & SPEC 3.31 TEMPORARY SEEDING

TS

PURPOSES

1. TO REDUCE EROSION AND SEDIMENTATION BY STABILIZING DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A PERIOD OF MORE THAN 30 DAYS.
2. TO REDUCE DAMAGE FROM SEDIMENT AND RUNOFF TO DOWNSTREAM OR OFF-SITE AREAS, AND TO PROVIDE PROTECTION TO BARE SOILS EXPOSED DURING CONSTRUCTION UNTIL PERMANENT VEGETATION OR OTHER EROSION CONTROL MEASURES CAN BE ESTABLISHED.

SPECIFICATIONS

PRIOR TO SEEDING, INSTALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS.

PLANT SELECTION

SELECT PLANTS APPROPRIATE TO THE SEASON AND SITE CONDITIONS FROM TABLE 3.31-B AND 3.31-C. NOTE THAT TABLE 3.31-B PRESENTS PLANTS WHICH CAN BE USED WITHOUT EXTENSIVE EVALUATION OF SITE CONDITIONS; TABLE 3.31-C PRESENTS MORE IN-DEPTH INFORMATION ON THE PLANT MATERIALS.

SEEDING PREPARATION

TO CONTROL EROSION ON BARE SOIL SURFACES, PLANTS MUST BE ABLE TO GERMINATE AND GROW. SEEDING PREPARATION IS ESSENTIAL.

1. TIMING: AN EVALUATION SHOULD BE CONDUCTED TO DETERMINE IF LIME IS NECESSARY FOR TEMPORARY SEEDING. IN MOST SOILS, IT TAKES UP TO 6 MONTHS FOR pH ADJUSTMENTS TO OCCUR FOLLOWING THE APPLICATION OF LIME. THEREFORE, IT MAY BE DIFFICULT TO JUSTIFY THE COST OF LIMING A TEMPORARY SITE, ESPECIALLY WHEN THE SOIL WILL LATER BE MOVED AND REGRADED. THE FOLLOWING TABLE MAY BE USED TO DETERMINE THE ACTUAL NEED ALONG WITH SUGGESTED APPLICATION RATES.

2. FERTILIZER: SHALL BE APPLIED AS 600 LBS./ACRE OF 10-20-10 (14 LBS./1,000 SQ. FT.) OR EQUIVALENT NUTRIENTS. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 2 TO 4 INCHES OF THE SOIL IF POSSIBLE.

3. SURFACE ROUGHENING: IF THE AREA HAS BEEN RECENTLY LOOSENED OR DISTURBED, NO FURTHER ROUGHENING IS REQUIRED WHEN THE AREA IS COMPACTED, CRUSTED, OR HARDENED. THE SOIL SURFACE SHALL BE LOOSENED BY DISCING, RAKING, HARROWING, OR OTHER ACCEPTABLE MEANS (SEE SURFACE ROUGHENING, STD. & SPEC. 3.09).

4. TRACKING: TRACKING WITH BULLDOZER CLEATS IS MOST EFFECTIVE IN SANDY SOILS. THIS PRACTICE OFTEN CAUSES UNDER COMPACTION OF THE SOIL SURFACE, ESPECIALLY IN CLAYEY SOILS, AND DOES NOT AID PLANT GROWTH AS EFFECTIVELY AS OTHER METHODS OF SURFACE ROUGHENING.

SEEDING

SEED SHALL BE EVENLY APPLIED WITH A BROADCAST SEEDER, DRILL, CULTIPACKER SEEDER OR HYDROSEEDER. SMALL GRAINS SHALL BE PLANTED NO MORE THAN ONE INCH DEEP. GRASSES AND LEGUMES SHALL BE PLANTED WITH NO LESS THAN 1/4" SOIL COVER.

MULCHING

1. SEEDINGS MADE IN FALL FOR WINTER COVER AND DURING HOT AND DRY SUMMER MONTHS SHALL BE MULCHED ACCORDING TO MULCHING, STD. & SPEC. 3.30. EXCEPT THAT HYDROMULCHES (FIBER MULCH) WILL NOT BE CONSIDERED ADEQUATE. STRAW MULCH SHOULD BE USED DURING THESE PERIODS.

2. TEMPORARY SEEDINGS MADE UNDER FAVORABLE SOIL AND SITE CONDITIONS DURING OPTIMUM SPRING AND FALL SEEDING DATES MAY NOT REQUIRE MULCH.

RE-SEEDING

AREAS WHICH FAIL TO ESTABLISH VEGETATIVE COVER ADEQUATE TO PREVENT RILL EROSION WILL BE RESEED AS SOON AS SUCH AREAS ARE IDENTIFIED.

TABLE 3.31-B
ACCEPTABLE TEMPORARY SEEDING PLANT MATERIALS
'QUICK REFERENCE FOR ALL REGIONS'

PLANTING DATES	SPECIES	RATE (lbs./acre)
SEPT. 1-FEB. 15	30/50 MIX OF ANNUAL RYEGRASS (LULIUM MULTI-FLORUM) CEREAL (WINTER) RYE (SECALE CEREALE)	50 - 100
FEB. 16-APR. 30	ANNUAL RYEGRASS (LULIUM MULTI-FLORUM)	60 - 100
MAY 1-AUG. 31	GERMAN MILLET (SETARIA ITALICA)	50

TABLE 3.31-C
TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

SPECIS	SEEDING RATE ACRE	1000 F ²	NORTH ^a	SOUTH ^b	PLANT CHARACTERISTICS
DATS (Avena sativa)	3 bu. cup to 100 lbs. (not less than 50 lbs.)	2 lbs.	3/1 to 4/30	5/1 to 8/15	Use spring varieties (e.g., Noble)
RYE (SECALE CEREALE)	2 bu. cup to 110 lbs. (not less than 50 lbs.)	2.5 lbs.	X	X	Use for late fall seedings; winter cover. Tolerates cold and late mowing.
GERMAN MILLET (SETARIA ITALICA)	50 lbs.	approx. 1 lb.	-	X	Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS ^c (LULIUM MULTI-FLORUM)	60 lbs.	1.5 lbs.	X	X	May be added in mixes. Will not mow out of most stands.
WEEPING LOVEGRASS (Eragrostis curvula)	15 lbs.	5.5 ozs.	-	X	Warm-season perennial. May bunch. Tolerates hot, dry slopes and acids. Infertile soil. May be added to mixes.
KOREAN LESPEDEZA ^c (LESPEDEZA STIPULACEA)	25 lbs.	approx. 1.5 lbs.	X	X	Warm season annual legume. Tolerates acid soils. May be added to mixes.

^a NORTHERN PIEDMONT AND MOUNTAIN REGION. SEE PLATES 3.22-1 AND 3.22-2.

^b SOUTHERN PIEDMONT AND COASTAL PLAIN.

^c MAY BE USED AS A COVER CROP WITH SPRING SEEDING.

^d MAY BE USED AS A COVER CROP FOR FALL SEEDING.

^e MAY BE PLANTED BETWEEN THESE DATES.

- MAY NOT BE PLANTED BETWEEN THESE DATES.

STD & SPEC 3.07 STORM DRAIN INLET PROTECTION

1P

CONSTRUCTION SPECIFICATIONS

SILT FENCE DROP INLET PROTECTION

1. SILT FENCE SHALL CONFORM TO THE CONSTRUCTION SPECIFICATIONS FOR 'EXTRA STRENGTH' FOUND IN TABLE 3.05-B AND SHALL BE CUT FROM A CONTINUOUS ROLL TO AVOID JOINTS.
2. FOR STAKES, USE 2x4-INCH WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3 FEET.
3. SPACE STAKES EVENLY AROUND PERIMETER OF THE INLET A MAXIMUM OF 3-FOOT APART, AND SECURELY DRIVE THEM INTO GROUND, APPROXIMATELY 18-INCHES DEEP (SEE PLATE 3.07-1).
4. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 INCH WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA AT A MAXIMUM OF 1 1/2 FEET ABOVE THE DROP INLET CREST.
5. PLACE BOTTOM 12 INCHES OF THE FABRIC IN A TRENCH (SEE PLATE 3.07-1) AND BACKFILL THE TRENCH WITH 12 INCHES OF COMPACTED SOIL.
6. FASTEN FABRIC SECURELY BY STAPLES OR WIRE TO THE STAKES AND FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
7. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWNSLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

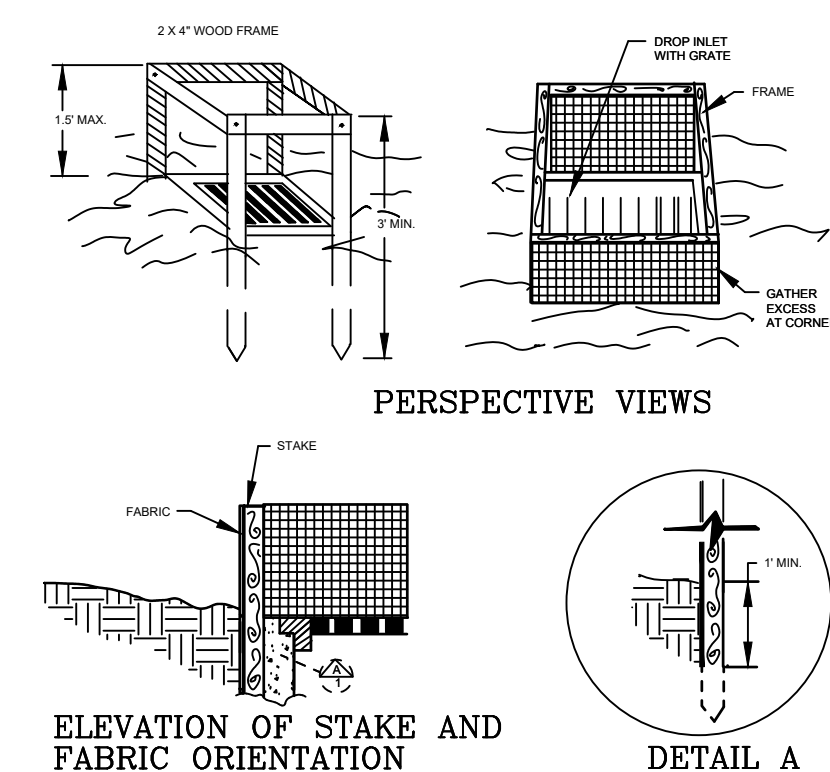
BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER

1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE ENDS OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF 4-INCH, 8-INCH AND 12-INCH WIDE BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12-INCHES HIGH AND NO GREATER THAN 24-INCHES HIGH.
2. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. WIRE MESH WITH 1/2-INCH OPENINGS SHALL BE USED.
3. STONE SHALL BE FILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER.
4. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

MAINTENANCE

1. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.
2. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
3. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE DROP INLET PROTECTION



ELEVATION OF STAKE AND FABRIC ORIENTATION

DETAIL A

SPECIFIC APPLICATION

EROSION AND SEDIMENT CONTROL NARRATIVE
SEYMOUR DRIVE AND HODGES STREET WATERLINE IMPROVEMENTS
TOWN OF SOUTH BOSTON, VA
APRIL 1, 2022

PROJECT DESCRIPTION: THIS PROJECT FOCUSES ON IMPROVEMENTS TO WATERLINES AND SERVICE CONNECTION. TIE-INS ALONG SEYMOUR DRIVE AND HODGES STREET IN THE TOWN OF SOUTH BOSTON, VA. THE SCOPE OF LAND DISTURBING ACTIVITIES INCLUDES THE FOLLOWING: SERVICE TIE-INS TO AN EXISTING 10" WATERLINE ALONG SEYMOUR DRIVE; INSTALLATION OF 6" DUCTILE IRON WATERLINE ALONG HODGES STREET; STORM WATER INLET STRUCTURE REPLACEMENT ALONG BOTH STREETS.

THE TOTAL DISTURBANCE IS 2.96 ACRES \pm .

THIS PROJECT IS BEING SUBMITTED TO REQUEST EXEMPTION UNDER DEQ GUIDANCE MEMO NO. 15-2003. THIS PROJECT ABIDES BY ALL REQUIREMENTS TO BE A LINEAR UTILITY PROJECT, AND QUALIFIES TO BE EXEMPT FROM A STORMWATER MANAGEMENT PLAN:

- a. THE PROJECT DOES NOT SIGNIFICANTLY ALTER THE PREDEVELOPMENT RUNOFF CHARACTERISTICS OF THE LAND SURFACE AFTER THE COMPLETION OF CONSTRUCTION AND FINAL STABILIZATION.
- b. THE PROJECT IS MANAGED SO THAT LESS THAN ONE (1) ACRE OF LAND DISTURBANCE OCCURS ON A DAILY BASIS.
- c. THE DISTURBED LAND WHERE WORK HAS BEEN COMPLETED IS ADEQUATELY STABILIZED ON A DAILY BASIS.
- d. THE ENVIRONMENT IS PROTECTED FROM EROSION AND SEDIMENTATION DAMAGE ASSOCIATED WITH THE LAND-DISTURBING ACTIVITY.
- e. THE OWNER AND/OR CONSTRUCTION ACTIVITY OPERATOR DESIGNS, INSTALLS, IMPLEMENTS, AND MAINTAINS POLLUTION PREVENTION MEASURES TO:
 - i. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS.
 - ii. MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE, AND OTHER MATERIALS PRESENT ON-SITE TO PRECIPITATION AND TO STORMWATER.
 - iii. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM SPILLS AND LEAKS AND IMPLEMENT CHEMICAL SPILL AND LEAK PREVENTION AND RESPONSE PROCEDURES.
 - iv. MINIMIZE THE DISCHARGE OF WASTEWATER FROM THE WASHOUT OF CONCRETE.
 - v. PROHIBIT THE DISCHARGE OF WASTEWATER FROM THE WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS.
 - vi. PROHIBIT THE DISCHARGE OF FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE.
- f. THE OWNER AND/OR CONSTRUCTION ACTIVITY OPERATOR PROVIDES REASONABLE ASSURANCE TO DEQ OR THE LOCAL HEALTH DEPARTMENT THAT ALL OF THE ABOVE CONDITIONS WILL BE SATISFIED. THIS MAY BE ACCOMPLISHED BY INCORPORATING THESE CONDITIONS INTO AN EROSION AND SEDIMENT CONTROL PLAN DEVELOPED FOR THE PROJECT.

CONSTRUCTION SEQUENCE:

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO PERFORM ANY SCOPE OF WORK PRIOR TO COMMENCING WORK REQUIRING A PERMIT.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND RESOURCES TO PERFORM THE WORK AS NECESSARY TO PROVIDE A COMPLETED PROJECT IN ACCORDANCE TO THE DESIGN INTENT OF THE ENGINEER AND AS PRESENTED IN THE CONTRACT DOCUMENTS.
- CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO PERFORMING ANY LAND DISTURBANCE ACTIVITIES.
- THE NEW DUCTILE IRON WATERLINE, SERVICE CONNECTIONS, AND STORMWATER INLET STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN DOCUMENTS WITHIN THE LIMITS NOTED ON THE DRAWINGS. INSTALLATION OF THE NEW WATERLINE SHALL BE PERFORMED IN A MANNER WHICH DOES NOT DISTURB THE OPERATION OF THE EXISTING WATERLINE. IN THE EVENT THE EXISTING WATERLINE IS DAMAGED DUE TO CONSTRUCTION RELATED ACTIVITIES, THE CONTRACTOR SHALL TAKE ALL PROPER ACTIONS TO REPAIR THE LINE AND IMMEDIATELY BACKFILL THE LINE WITHIN THE SERVICE, OR LATER, WITHIN ANY LINES ASSOCIATED WITH THE DAMAGE. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY UTILITIES UNTIL THE EXISTING UTILITIES CAN BE BROUGHT BACK INTO FULL SERVICE.
- UPON COMPLETION OF THE INSTALLATION OF THE WATERLINE AND CONNECTIONS, ALL OPEN CUT AREAS WILL BE RESTORED WITH A PAVEMENT BASE COURSE IN PREPARATION FOR THE UPCOMING SCHEDULED PAVING. THE CONTRACTOR SHALL ADJUST ALL FINISHED GRADES ON SITE TO THOSE SHOWN WITHIN THE CONTRACT DRAWINGS.
- CARRY OUT FINAL GRADING, STABILIZATION, SEEDING, AND PLANTING.
- REMOVE EROSION CONTROL MEASURES UPON SITE STABILIZATION.
- UPON ISSUANCE OF SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL FINISH ALL PUNCH LIST ITEMS AND PROVIDE ALL FINAL CLEANUP TO THE SITE TO RESTORE TO CONDITIONS AS INDICATED WITHIN THE CONSTRUCTION DOCUMENTS.

EXISTING SITE CONDITIONS: THE NEW WATERLINE WILL PARALLEL THE EXISTING WATERLINE ALONG HODGES STREET. THE EXISTING CONSTRUCTION WILL OCCUR ENTIRELY WITHIN VDOT RIGHT-OF-WAYS AND IT IS NOT ANTICIPATED TO OBTAIN EASEMENTS.

ADJACENT AREAS: MOST AREAS SURROUNDING THE PROPOSED CONSTRUCTION ARE RESIDENTIAL AREAS.

CRITICAL AREAS:

OFF-SITE AREAS: NO OFFSITE LAND DISTURBANCE ACTIVITIES WILL BE A PART OF THIS PROJECT.

EROSION CONTROL MEASURES: ALL EROSION AND SEDIMENT CONTROL MEASURES AND DEVICES ARE TO BE IN ACCORDANCE WITH THE LATEST EDITION OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, VDOT ROAD AND BRIDGE STANDARDS MANUAL. IF THE MEASURES AND DEVICES SPECIFIED DO NOT EFFECTIVELY CONTROL EROSION AND SEDIMENT LOADING, ADDITIONAL MEASURES MAY BE REQUIRED BY THE LOCAL SEDIMENT AND EROSION AND CONTROL OFFICE AND /OR ENGINEER. REFER TO E&S SHEET IN THE DRAWINGS FOR LOCATION OF THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES.

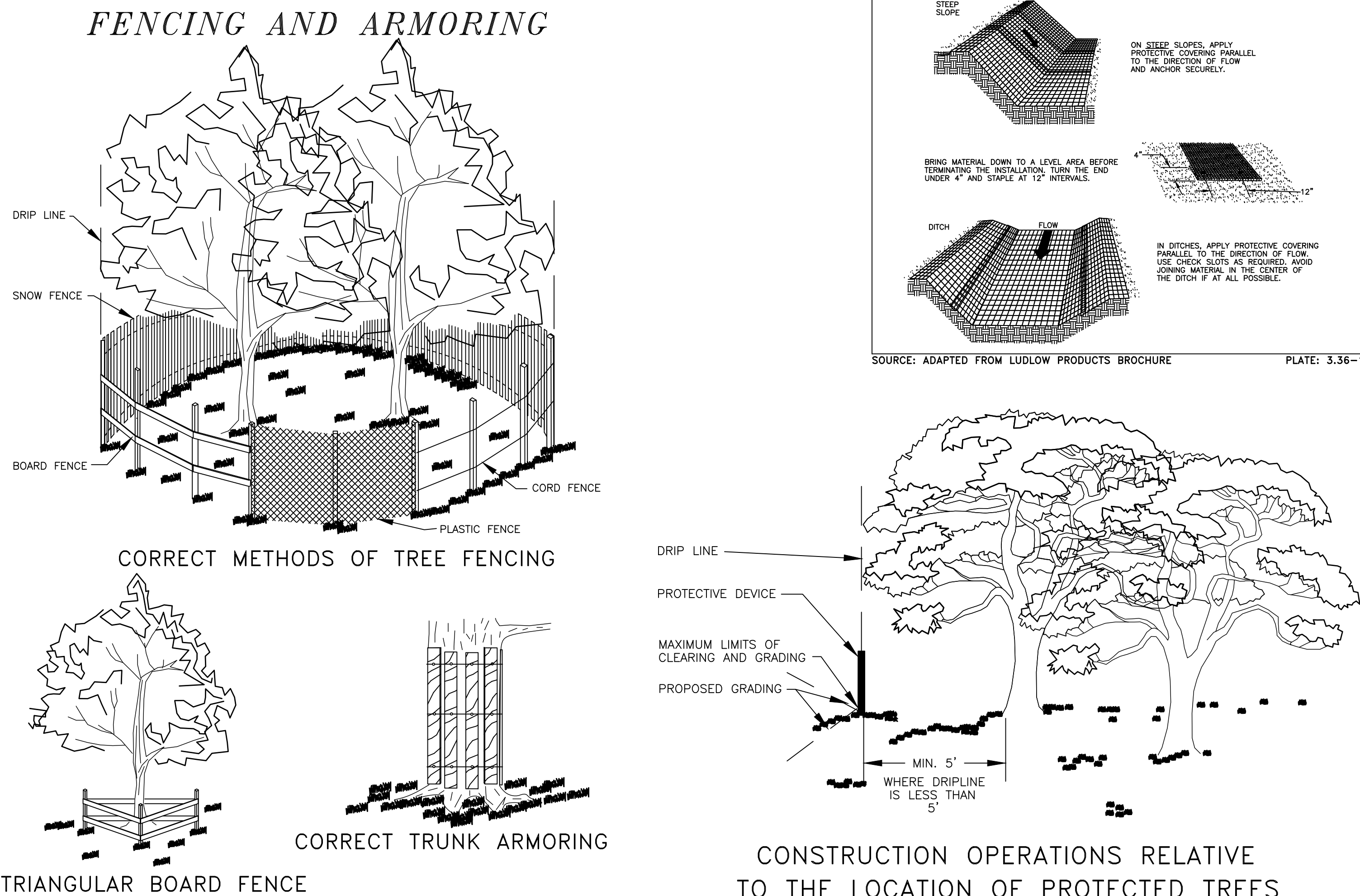
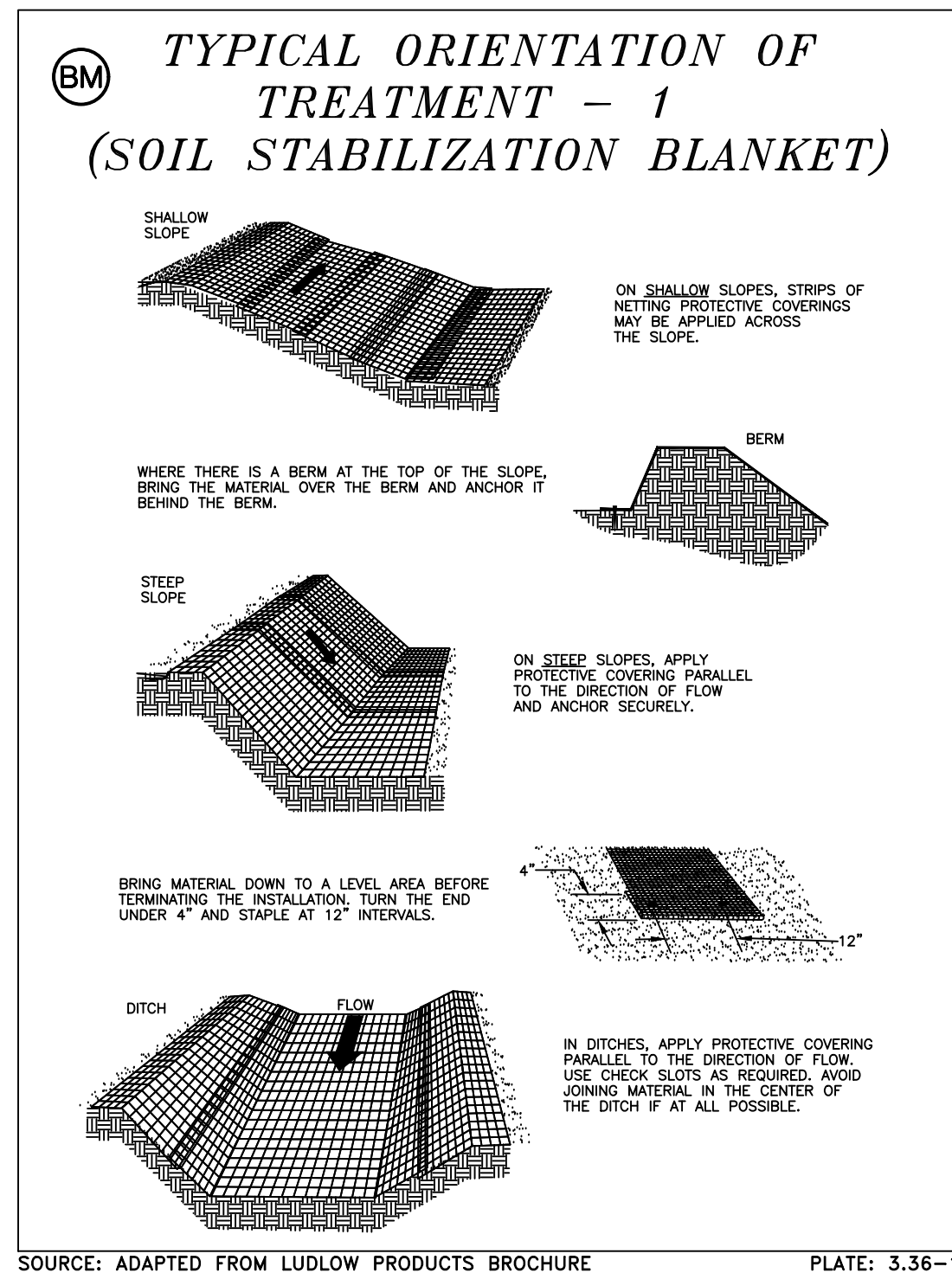
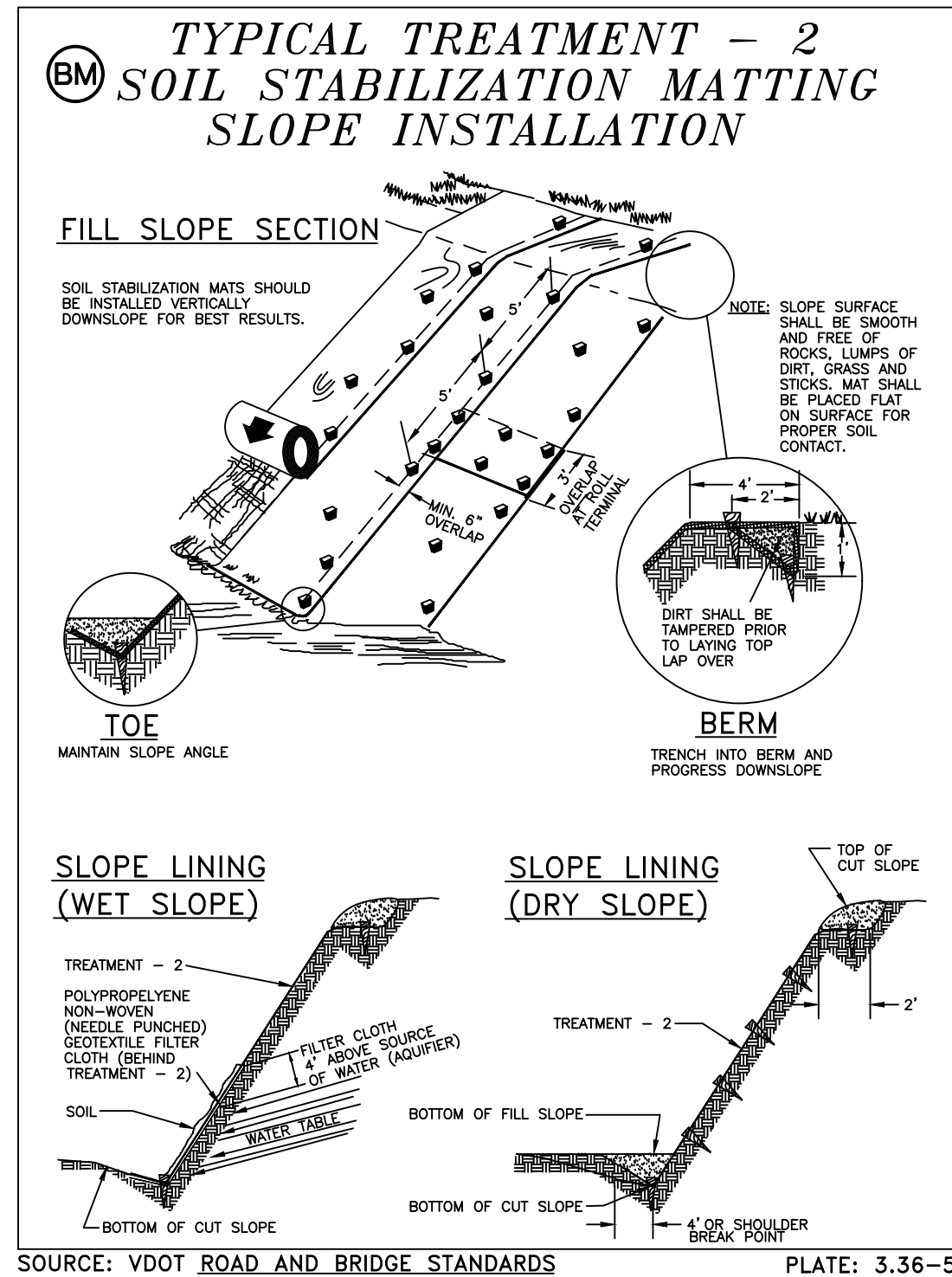
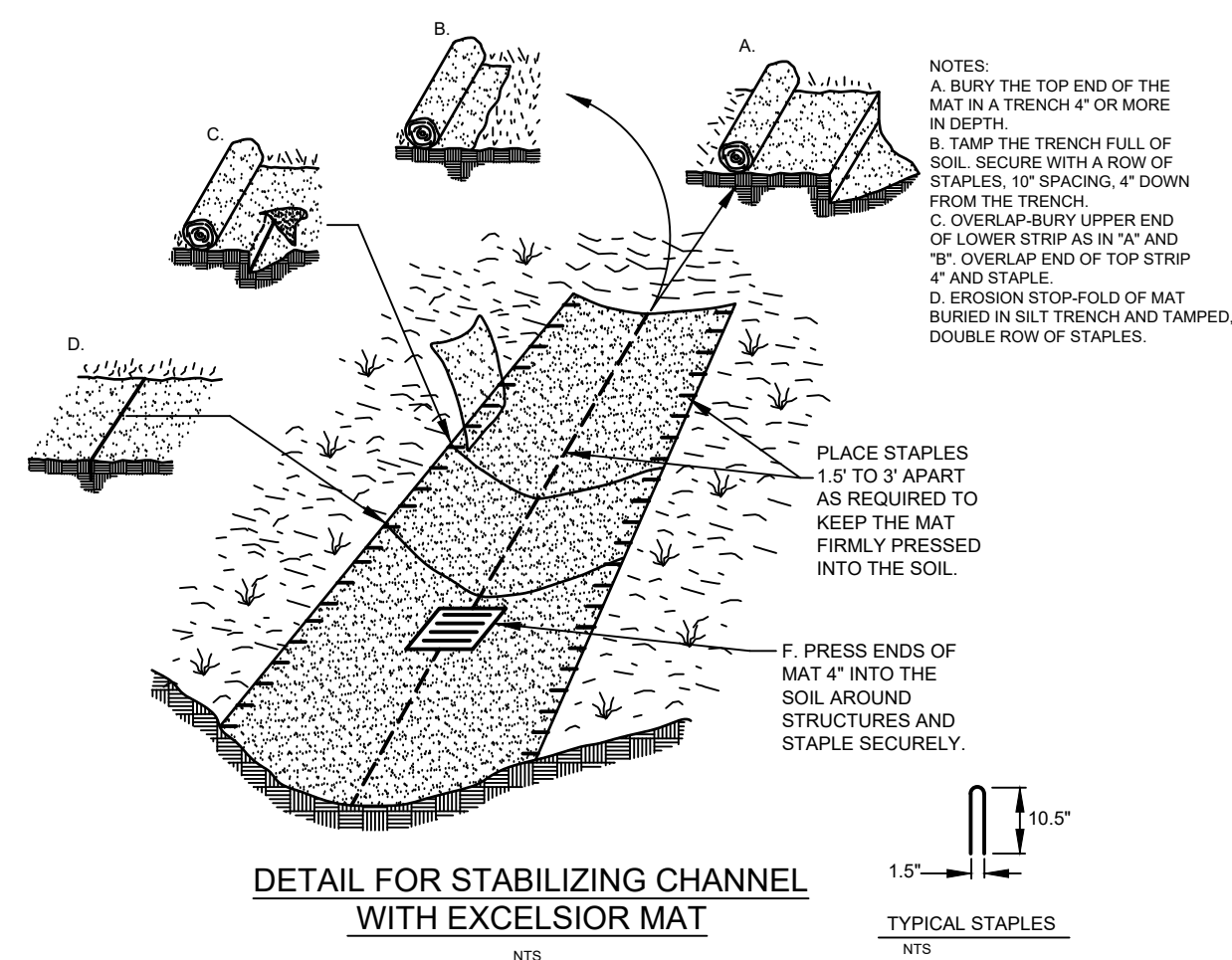
1. TEMPORARY CONSTRUCTION ENTRANCE - GRAVEL CONSTRUCTION ENTRANCES WILL BE INSTALLED AS SHOWN OF THE EROSION AND SEDIMENT CONTROL PLANS TO PREVENT TRACING OF MUD AND SILT ON EXISTING PAVEMENTS. WASHING, SWEEPING, ETC., AS NECESSARY WILL BE REQUIRED TO ENSURE THAT PAVEMENTS REMAIN CLEAN PER VA E&S STD. 3.02.
2. TEMPORARY SEEDING - WILL BE INSTALLED WHENEVER CONSTRUCTION SCHEDULES DO NOT PERMIT PERMANENT SEEDING WITHIN THE OPTIMUM SEEDING DATES, AS SPECIFIED IN THE GENERAL NOTES OR WITHIN SEVEN DAYS ON AREAS DISTURBED THAT WILL HAVE NO CONSTRUCTION ACTIVITY FOR 14 DAYS OR LONGER. INSTALL PER VA E&S STD. 3.31.
3. PERMANENT SEEDING - WILL BE INSTALLED WITHIN THE OPTIMUM SEEDING DATES, AS SPECIFIED IN THE GENERAL NOTES, BUT NO MORE THAN 7 DAYS AFTER CONSTRUCTION ACTIVITY ON A PARTICULAR PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED. THE EXCEPTION TO THIS REQUIREMENT ARE THE FOLLOWING: WHERE CONSTRUCTION ACTIVITIES WILL RESUME ON A PORTION OF THE SITE WITHIN 30 DAYS FROM WHEN THE CONSTRUCTION ACTIVITIES CEASED; AND WHERE THE INITIATION OF STABILIZATION MEASURES IS PRECLUDED BY SNOW COVER OR FROZEN GROUND, IN WHICH CASE, STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE. INSTALL PER VA E&S ST. 3.32.
4. TREE PROTECTION - TO BE USED TO ENSURE THE SURVIVAL OF DESIRABLE TREES WHERE THEY WILL BE EFFECTIVE FOR EROSION AND SEDIMENT CONTROL, WATERSHED PROTECTION, LANDSCAPE BEAUTIFICATION, DUST AND POLLUTION CONTROL, NOISE REDUCTION, SHADE AND OTHER ENVIRONMENTAL BENEFITS WHILE THE LAND IS BEING CONVERTED FROM FOREST TO URBAN-TYPE USES. CONTRACTOR SHALL BE KNOWLEDGEABLE OF ALL RISKS ASSOCIATED WITH LAND DISTURBING ACTIVITIES IN THE VICINITY OF EXISTING TREES AS OUTLINED IN VA E&S STD. 3.03.
5. SILT FENCE - WILL BE INSTALLED AS SHOWN ON THE E&S PLAN TO PROTECT THE SITE AND ADJOINING PROPERTIES FROM SEDIMENT LOADING PER VA E&S STD. 3.05.
6. CULVERT INLET PROTECTION - WILL BE INSTALLED AS SHOWN ON THE PLANS TO PROTECT THE SYSTEM FROM SEDIMENT LOADING USING STONE AND/OR SILT FENCE TO FILTER WATER GOING INTO A CULVERT INLET STRUCTURE PER VA E&S STD. 3.08.

PERMANENT STABILIZATION: NO AREA SHALL REMAIN UNSTABILIZED FOR MORE THAN 14 DAYS, SEE THE TEMPORARY SEEDING DETAIL. ALSO SEE THE PERMANENT SEEDING DETAIL FOR PERMANENT STABILIZATION MEASURES.

STORMWATER RUNOFF CONSIDERATIONS/MANAGEMENT: THIS IS A LINEAR UTILITY MAINTENANCE PROJECT; PRE- AND POST- DEVELOPMENT RUNOFF CONDITIONS WILL BE UNALTERED BY THIS PROJECT. EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ABOVE AND ON THE PLANS WILL BE UTILIZED THROUGHOUT CONSTRUCTION FOR TEMPORARY LAND DISTURBING ACTIVITIES.

MAINTENANCE: SEE EROSION AND SEDIMENT CONTROL PLAN, AS WELL AS GENERAL NOTES ON PROJECT DRAWINGS AND DETAILS.

CALCULATIONS: NOT APPLICABLE. PRE- AND POST- DEVELOPMENT RUNOFF CONDITIONS WILL BE UNALTERED DUE TO CONSTRUCTION.



Dewberry Engineers Inc.

551 Piney Forest Road
Danville, VA 24540-3353
434.797.4497

HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE

AS NOTED

[illegible]

NO.	DESCRIPTION	DATE
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DRAWN BY ANH

APPROVED BY _____ RSE

CHECKED BY _____ LBM

DATE APRIL, 2022

TITLE _____

EROSION AND SEDIMENT CONTROL DETAILS

PROJECT NO. 50083060

C-304

SHEET NO. 0 OF ----

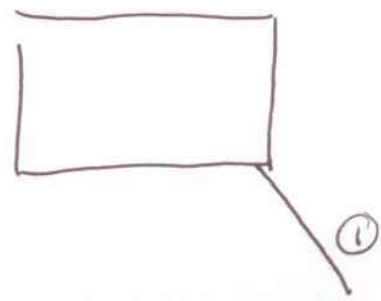
SOUTH BOSTON STORM INVENTORY

Structure # 277 Point # 5323
Location 30' W NW MAIN + SKY
Type CI Throat/Grate Length 4.5' Grid L-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 363.01
Measure down 4.67' Inv 15" RCP = 358.34 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 278
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

NEEDS CLEANING

Drawing

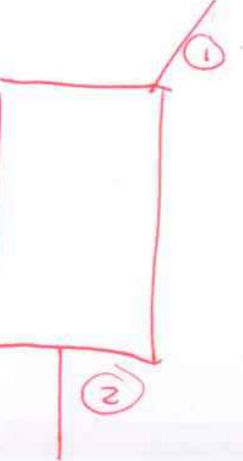


SOUTH BOSTON STORM INVENTORY

Structure # 358 Point # 5406
Location 15' W NW BROAD + SEYMOUR
Type CI Throat/Grate Length 8' Grid M-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 377.16
Measure down 4.95' Inv 24" RCP = 372.21 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 359
Measure down 5.05' Inv 24" RCP = 372.11 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 355
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

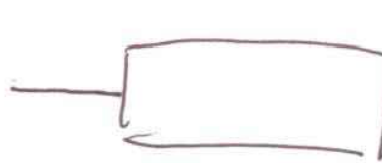


SOUTH BOSTON STORM INVENTORY

Structure # 282 Point # 5328
Location 15' E NE SEYMOUR + MAIN
Type CI Throat/Grate Length 8' Grid L-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of BLOCK
Top Elevation 365.82
Measure down 5.53' Inv 24" RCP = 359.89 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From MAIN LINE RUNNING N + S
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

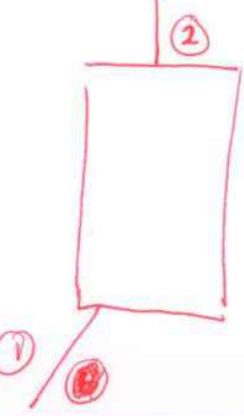


SOUTH BOSTON STORM INVENTORY

Structure # 359 Point # 5407
Location 120' E NE BROAD + SEYMOUR
Type CI Throat/Grate Length 12' Grid M-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC.
Top Elevation 383.66
Measure down 5.81' Inv 24" RCP = 377.85 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 358
Measure down 5.68' Inv 18" RCP = 377.98 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 360
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing



SOUTH BOSTON STORM INVENTORY

Structure # 283 Point # 5329
Location 15' E SE MAIN + SEYMOUR
Type CI Throat/Grate Length 8' Grid L-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 363.73
Measure down 6.10' Inv 24" RCP = 357.13 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 284
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

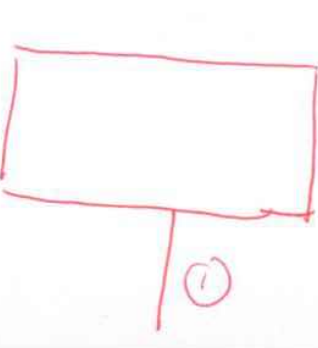


SOUTH BOSTON STORM INVENTORY

Structure # 410 Point # 5458
Location 20' E NE EDMONDSON + SEYMOUR
Type DI Throat/Grate Length 8' x 2' Grid M-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 358.79
Measure down 2.82' Inv 15" CMP = 355.97 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 411
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv RCP =
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Measure down Inv RCP =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

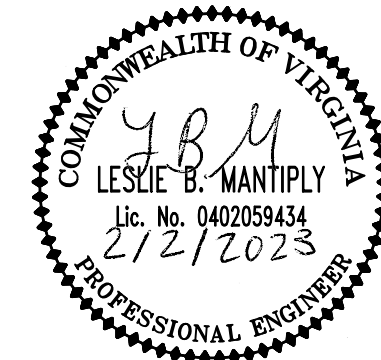


Dewberry Engineers Inc.

551 Piney Forest Road
Danville, VA 24540-3353
434.797.4497

HCSA
SEYMOUR DRIVE AND
HODGES STREET
WATERLINE IMPROVEMENTS
SOUTH BOSTON, VIRGINIA

SEAL



KEY PLAN

SCALE

AS NOTED

REVISIONS

NO.	DESCRIPTION	DATE

DRAWN BY ANH

APPROVED BY RSE

CHECKED BY LBM

DATE APRIL, 2022

TITLE

STORM INLET
STRUCTURE
INSPECTION
REPORTS

PROJECT NO. 50083060

C-305

SHEET NO. 0 OF ----

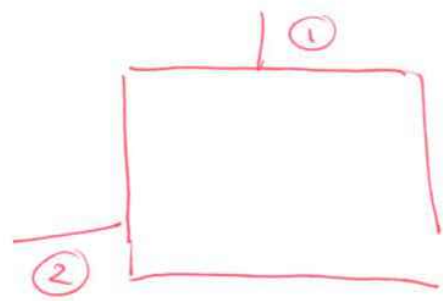
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PIPES PRIOR TO CONSTRUCTION

SOUTH BOSTON STORM INVENTORY

Structure # 411 Point # 5459
Location 50' E SE EDMUNDSON + SEYMOUR
Type CI Throat/Grate Length 8' Grid N-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 358.68
Measure down 3.50 ' Inv 15" " CMP = 355.18 (in)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 410
Measure down 3.65 ' Inv 15" " DIP = 355.13 (out)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 412
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
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Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

Drawing

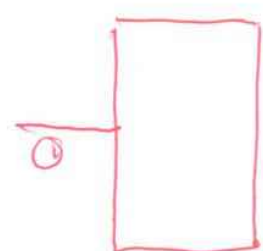


SOUTH BOSTON STORM INVENTORY

Structure # 459 Point # 5513
Location 250' W NW MARSHALL + SEYMOUR
Type CI Throat/Grate Length 8' Grid N-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 339.82
Measure down 2.93 ' Inv 15" " CMP = 336.89 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 460
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
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Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

Drawing

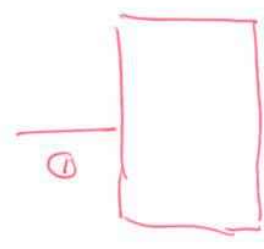


SOUTH BOSTON STORM INVENTORY

Structure # 456 Point # 5510
Location NE CORNER MARSHALL + SEYMOUR
Type CI Throat/Grate Length 8' Grid N-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 347.50
Measure down 3.19 ' Inv 18" " CMP = 344.31 (out)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 457
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
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Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

Drawing



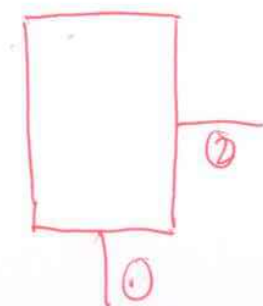
SOUTH BOSTON STORM INVENTORY

Structure # 460 Point # 5514
Location 250' W SW MARSHALL + SEYMOUR
Type CI Throat/Grate Length 8' Grid N-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 340.75
Measure down 4.09 ' Inv 15" " CMP = 336.66 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From See note
Measure down 4.23 ' Inv 15" " CMP = 336.52 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 459
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

1) INVERT PIPE RUNNING WEST PRELUCE W/ SEYMOUR
+ DUMPLING INTO PIPE 461 + 461A

Drawing

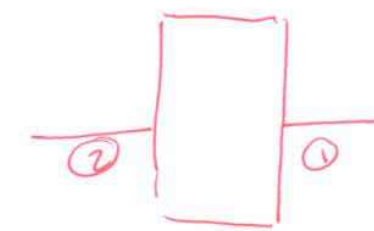


SOUTH BOSTON STORM INVENTORY

Structure # 457 Point # 5511
Location NW CORNER MARSHALL + SEYMOUR
Type CI Throat/Grate Length 8' Grid N-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 347.23
Measure down 3.95 ' Inv 18" " CMP = 343.28 (in)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 456
Measure down 3.80 ' Inv 18" " CMP = 343.43 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 458
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
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Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

Drawing

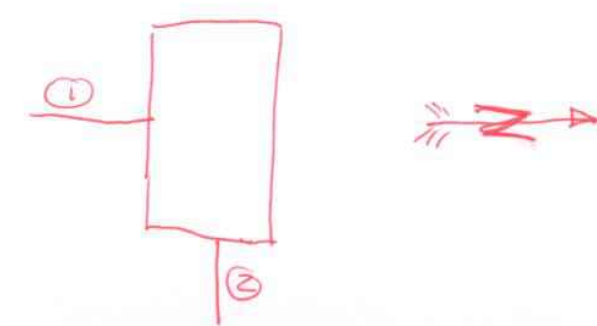


SOUTH BOSTON STORM INVENTORY

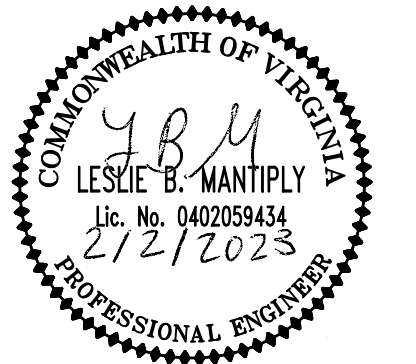
Structure # 462 Point # 5517
Location NE CORNER TRAVEL + SEYMOUR
Type CI Throat/Grate Length 5' Grid N-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 351.25
Measure down 3.55 ' Inv 18" " CMP = 347.70 (in)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 463
Measure down 3.36 ' Inv 18" " CPP = 347.89 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 464
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =
Measure down ' Inv " =
Condition: Good ☐ Fair ☐ Poor ☐ To/From =

NOTES:

Drawing



SEAL



KEY PLAN

SCALE

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**STORM INLET
STRUCTURE
INSPECTION
REPORTS**

PROJECT NO. 50083060

C-306

SHEET NO. 0 OF ----

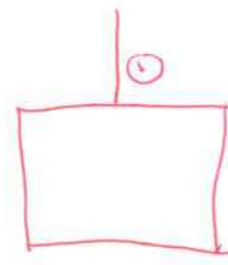
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SOUTH BOSTON STORM INVENTORY

Structure # 463 Point # 5518
Location SE CORNER OF TRAVEL + SEYMOUR
Type CI Throat/Grate Length 5' Grid N-12
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 351.47
Measure down 2.47' Inv 18" CMP = 348.50 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 462
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
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Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

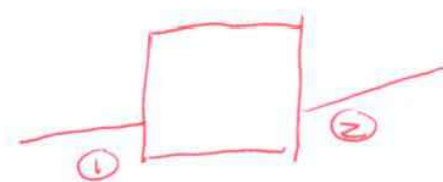


SOUTH BOSTON STORM INVENTORY

Structure # 479 Point # 5535
Location 120' E SE MARSHALL + HODGES
Type CI Throat/Grate Length 3' Grid N-12
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 364.95
Measure down 3.01' Inv 12" CPP = 361.94 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 478
Measure down 3.10' Inv 18" CPP = 361.85 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 480
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
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Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

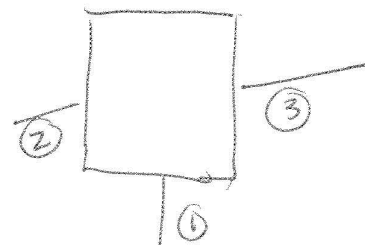


SOUTH BOSTON STORM INVENTORY

Structure # 472 Point # 5527
Location 30' S SE HODGES + GROVE
Type DI Throat/Grate Length 2' x 2' Grid N-12
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 395.03
Measure down 2.63' Inv 15" CMP = 392.40 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 471
Measure down 4.113' Inv 12" TC = 390.90 (in)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 473
Measure down 4.32' Inv 15" TC = 390.71 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 474 JB
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing



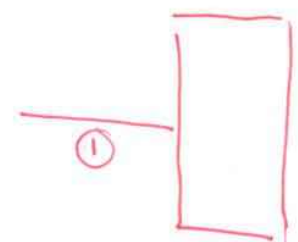
SOUTH BOSTON STORM INVENTORY

Structure # 500 Point # 5558
Location NE CORNER PEACH + HODGES
Type CI Throat/Grate Length 8' Grid M-12
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 413.69
Measure down 3.16' Inv 15" RCP = 410.53 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 501
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

NEEDS CLEANING

Drawing

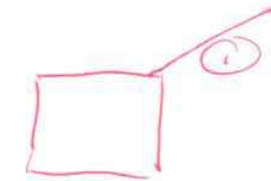


SOUTH BOSTON STORM INVENTORY

Structure # 478 Point # 5534
Location NW CORNER MARSHALL + HODGES
Type CI Throat/Grate Length 3' Grid N-12
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 374.72
Measure down 2.55' Inv 12" CMP = 372.17 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 479
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

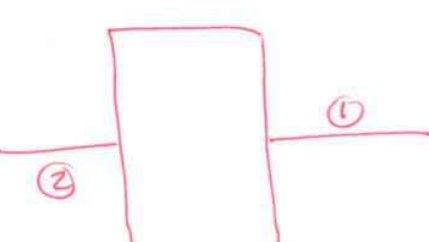


SOUTH BOSTON STORM INVENTORY

Structure # 501 Point # 5559
Location NW CORNER PEACH + HODGES
Type CI Throat/Grate Length 8' Grid M-12
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 413.17
Measure down 3.284' Inv 15" RCP = 410.31 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 500
Measure down 3.324' Inv 18" RCP = 410.13 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 502
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing



SEAL



KEY PLAN

SCALE

AS NOTED

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APPROVED BY RSE

CHECKED BY LBM

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**STORM INLET
STRUCTURE
INSPECTION
REPORTS**

PROJECT NO. 50083060

C-307

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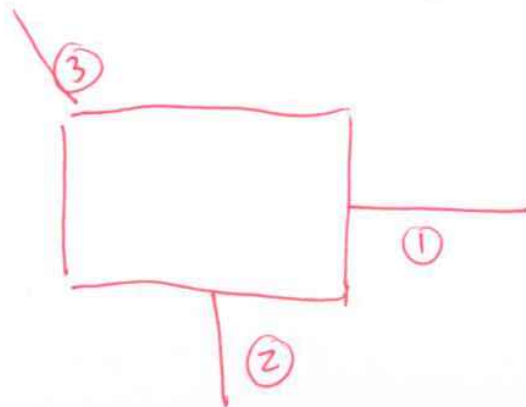
SHEET NO. 0 OF ----

SOUTH BOSTON STORM INVENTORY

Structure # 502 Point # 5560
Location 25' W NW PENCH + HODGES
Type CI Throat/Grate Length 8' Grid M-12
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 412.54
Measure down 3.02' Inv 18" CMP RCP = 409.52 (in)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 501
Measure down 4.79' Inv 24" RCP = 408.13 (out)
Condition: Good ☐ Fair ☐ Poor ☐ To/From 504
Measure down 4.69' Inv 12" RCP = 408.25 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 505
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

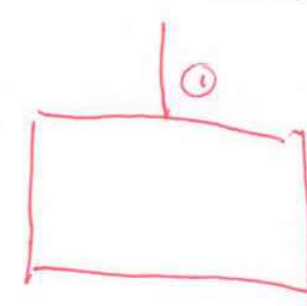


SOUTH BOSTON STORM INVENTORY

Structure # 503 Point # 5561
Location 25' W SW PENCH + HODGES
Type CI Throat/Grate Length 8' Grid M-12
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 412.52
Measure down 2.33' Inv 15" CMP = 410.19 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From USE 2' to 1' then to 504
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
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Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

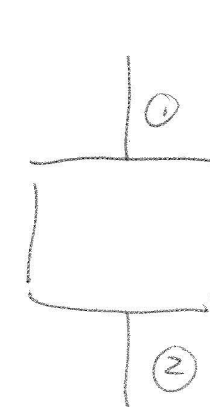


SOUTH BOSTON STORM INVENTORY

Structure # 553 Point # 5619
Location 175' W SW RILEY + SEYMOUR
Type CI Throat/Grate Length 8' Grid O-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 347.17
Measure down 3.65' Inv 15" CMP = 343.52 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 554
Measure down 3.69' Inv 15" CMP = 343.48 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From TIES INTO # 556-A 4.0 556
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
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Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing

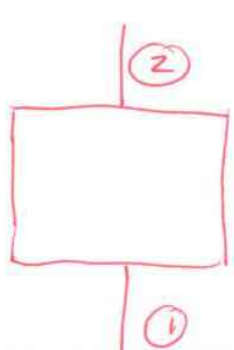


SOUTH BOSTON STORM INVENTORY

Structure # 554 Point # 5620
Location 175' W NW RILEY + SEYMOUR
Type CI Throat/Grate Length 8' Grid O-14
Condition: Good ☒ Fair ☐ Poor ☐ Made of CONC
Top Elevation 347.01
Measure down 3.34' Inv 15" CMP = 343.67 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 553
Measure down 3.18' Inv 12" PVC = 343.83 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 555
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
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Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

Drawing



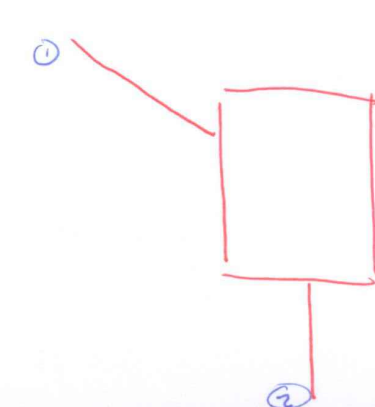
SOUTH BOSTON STORM INVENTORY

Structure # 557 Point # 5624
Location NE CORNER RILEY + SEYMOUR
Type CI Throat/Grate Length 2.5' Grid O-14
Condition: Good ☐ Fair ☐ Poor ☐ Made of BRICK
Top Elevation 351.63
Measure down 6.05' Inv 18" CMP = 345.58 (in)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 558
Measure down 6.07' Inv 24" RCP = 345.856 (out)
Condition: Good ☒ Fair ☐ Poor ☐ To/From 559
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From

NOTES:

NEED TO PULL TOP FOR PIPE SIZE +
INVERT

Drawing



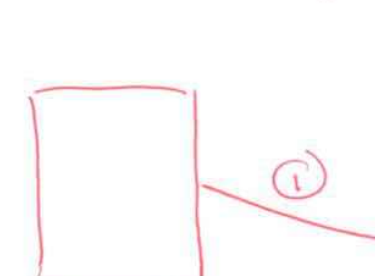
SOUTH BOSTON STORM INVENTORY

Structure # 558 Point # 5625
Location 30' N NW RILEY + SEYMOUR
Type CI Throat/Grate Length 2.5' Grid O-14
Condition: Good ☐ Fair ☒ Poor ☐ Made of CONC
Top Elevation 351.03
Measure down 3.21' Inv 18" CMP = 347.82 (out)
Condition: Good ☐ Fair ☒ Poor ☐ To/From 557
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
Measure down Inv =
Condition: Good ☐ Fair ☐ Poor ☐ To/From
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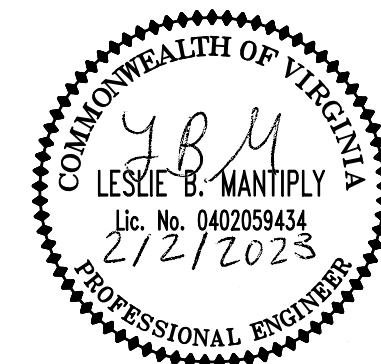
NOTES:

TOP IS BROKEN, NEEDS REPLACING

Drawing



SEAL



KEY PLAN

SCALE

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REPORTS**

PROJECT NO. 50083060

C-308

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SHEET NO. 0 OF ----

