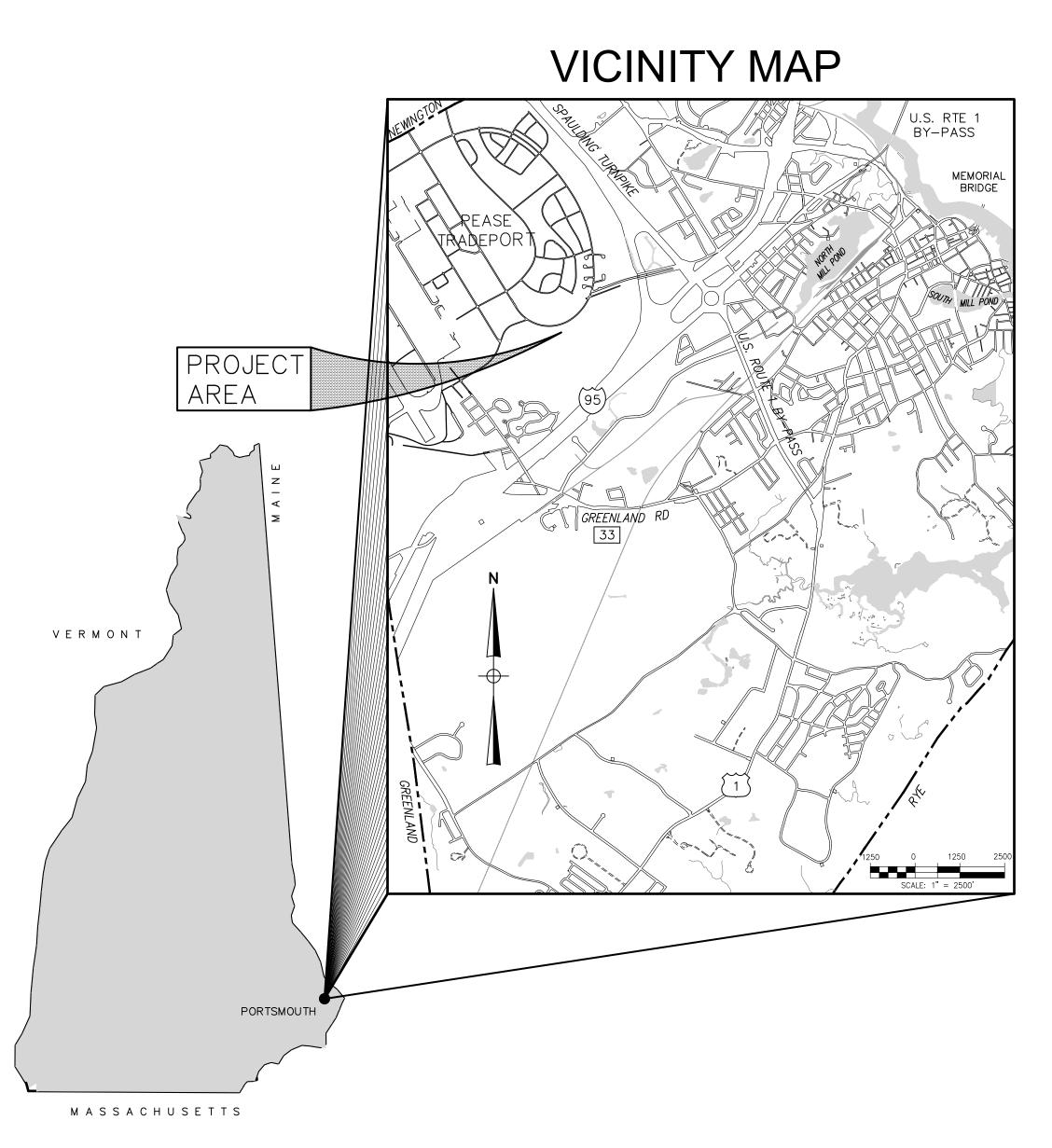
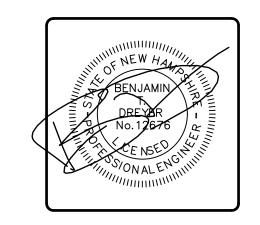
CITY OF PORTSMOUTH, NEW HAMPSHIRE FOR CONSTRUCTION CORPORATE DRIVE MAINTENANCE DREDGING & OUTFALL IMPROVEMENTS

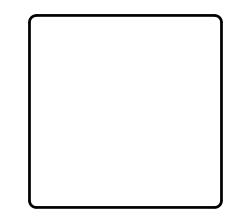
CITY BID No. 37-22





PREPARED BY
UNDERWOOD ENGINEERS, INC.
PORTSMOUTH, NEW HAMPSHIRE
APRIL 4, 2022

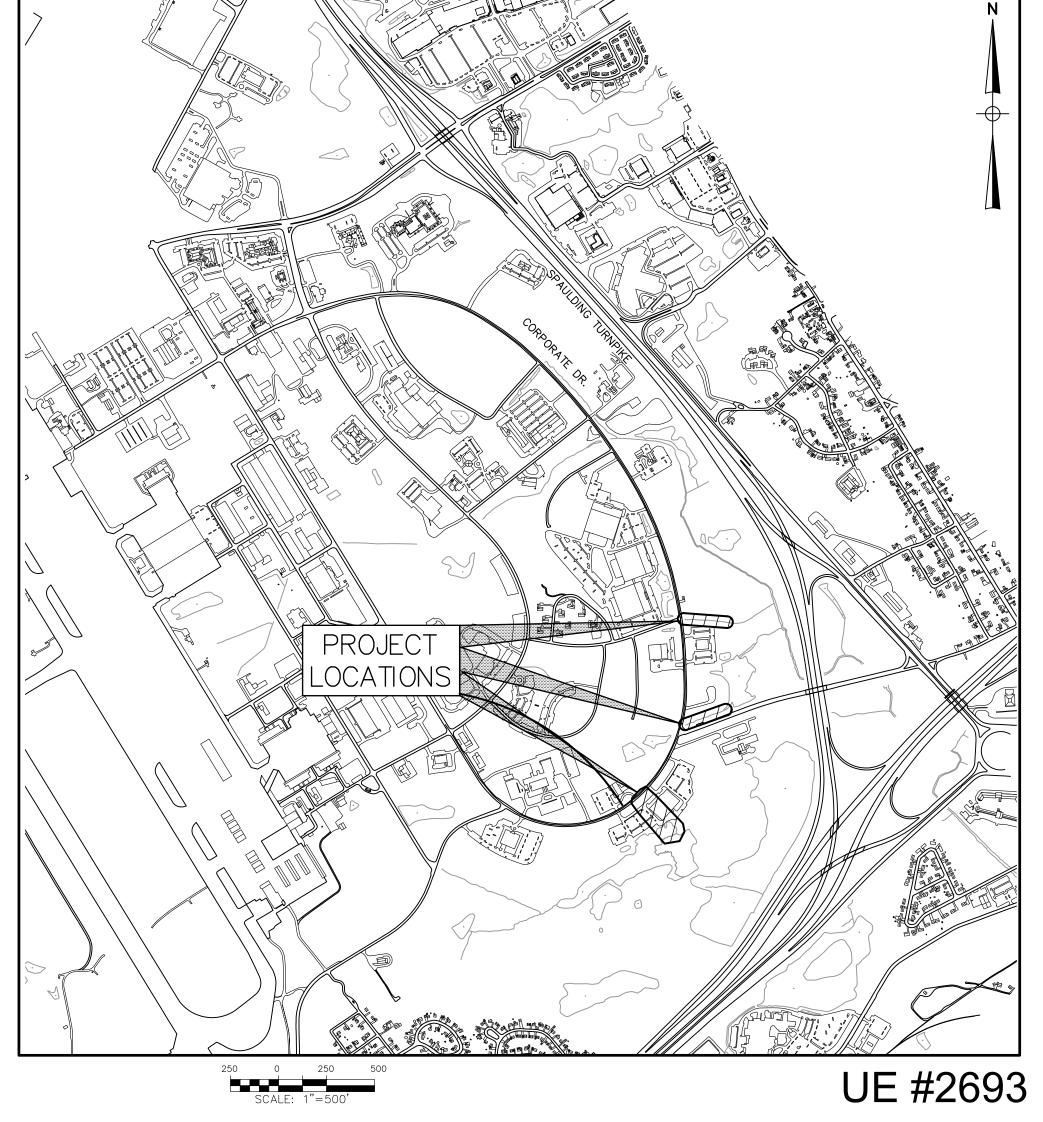




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LOCATION PLAN





ABBREVIATIONS: APPROXIMATE APPROX BORING BITUMINOUS CURB BLDG BUILDING CB CATCH BASIN CI CAST IRON PIPE CENTERLINE CMP CORRUGATED METAL PIPE CONC CONCRETE CONST CONSTRUCT CPE CORRUGATED POLYETHYLENE CPP CORRAGATED PLASTIC PIPE DRAIN DUCTILE IRON DI DIA DIAMETER DIP DUCTILE IRON PIPE DMH DRAINAGE MANHOLE DYL DOUBLE YELLOW LINE EL ELEVATION **EMER EMERGENCY ENGR** ENGINEER EOP, EP EDGE OF PAVEMENT EXIST EXISTING FΜ FORCE MAIN FT FOOT OR FEET GAS PROPANE GAS GC GRANITE CURB GND GROUND FΜ FORCE MAIN INCH INV INVERT ELEVATION LINEAR FEET LGT LIGHT LP LIGHT POLE ΜJ MECHANICAL JOINT MWMUNICIPAL WATER NA OR N/A NOT APPLICABLE NGVD NATIONAL GEODETIC VERTICAL DATUM NOW OR FORMERLY N/F N/R NO REFUSAL OD OUTSIDE DIAMETER ORN ORNAMENTAL TREE OS OUTLET STRUCTURE PΚ SURVEYOR'S NAIL PLPROPERTY LINE PSNH PUBLIC SERVICE COMPANY OF N.H. PVC POLYVINYL CHLORIDE SDR 35 PAVEMENT PVMT REFUSAL RCP REINFORCED CONCRETE PIPE RD ROOF DRAIN RD ROAD REF REFER OR REFERENCE REQD REQUIRED ROW RIGHT OF WAY MUNICIPAL SEWER OR SEPTIC TANK SLOPE (I.E., FT. PER FT.) IN PROFILES SCH SCHEDULE SHT SHEET SMH SEWER MANHOLE ST STEEL STA STATION STD STANDARD TBM TEMPORARY BENCH MARK TRANS TRANSFORMER TYP TYPICAL UGE UNDERGROUND ELECTRIC U/P UTILITY POLE

1. THIS IS A STANDARD LEGEND SHEET, THEREFORE SOME ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE DRAWINGS.

VITRIFIED CLAY PIPE

VC DRAIN

VERTICAL

WATER

WOOD

WITH

VCD

VCP

VERT

WD

W/

2. CONTACT ENGINEER FOR ABBREVIATIONS USED BUT NOT SHOWN ON THESE DRAWINGS.

GENERAL NOTES:

- 1. ACCESS TO AREAS OUTSIDE THE CORPORATE DRIVE 100' RIGHT—OF—WAY SHALL BE COORDINATED WITH THE PEASE DEVELOPMENT AUTHORITY, WHO HAVE JURISDICTION FOR THIS COMMON LAND OUTSIDE THE DEVELOPED AREAS.
- 2. THE CONTRACTOR, TO THE EXTENT POSSIBLE, SHALL MINIMIZE DISTURBANCE TO WETLANDS THROUGHOUT THE COURSE OF THE PROJECT AND TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DEGRADATION OF WETLANDS AND DOWNSTREAM SURFACE WATERS. A COPY OF THE WETLANDS PERMIT AND CONDITIONS IS INCLUDED IN THE PROJECT MANUAL AND COMPLIANCE WITH PERMIT APPROVALS IS REQUIRED.
- 3. THE INTENT OF THE WORK WITHIN WETLAND AREAS IS LIMITED TO DREDGING AND GRADING DRAINAGE CHANNELS TO REDUCE STORMWATER SURCHARGES WITHIN THE DRAINAGE PIPE AND STRUCTURES IN THE STREET AND TO MITIGATE FLOODING IN THE STREET.
- 4. DRAIN PIPE INSTALLATION, DREDGING AND GRADING, SHALL BE CONDUCTED IN A MANNER TO MINIMIZE SEDIMENTATION AND/OR SILTATION TO ADJOINING PROPERTIES. THE CONTRACTOR SHALL EMPLOY SHEETING AND PUMPING OF FILTERED GROUNDWATER TO PRE—DRAIN ALL EXCAVATIONS A MINIMUM OF 1—FOOT BELOW THE BOTTOM OF EXCAVATION BEFORE PROCEEDING WITH THE WORK.
- 5. EXCAVATION OF THE TRENCH SHALL BE PERFORMED WITH A SMOOTH-EDGED BUCKET.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR (IF DAMAGED) OF ALL EXISTING UTILITY MAINS AND SERVICES. THE LOCATIONS OF KNOWN UTILITY MAINS AND SERVICES SHOWN ON THESE DRAWINGS ARE APPROXIMATE. NOTIFY DIG-SAFE PRIOR TO COMMENCING CONSTRUCTION (1-888-344-7233). CONTRACTOR SHALL GIVE ADEQUATE NOTICE TO THE ENGINEER OF CONFLICTS OF PROPOSED WORK WITH MARKED UTILITIES PRIOR TO CONSTRUCTING THE PROPOSED WORK.
- 7. THIS PLAN SET CORRESPONDS WITH A PROJECT MANUAL TITLED 'CORPORATE DRIVE MAINTENANCE DREDGING AND OUTFALL IMPROVEMENTS'.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PROPERTY RESTORATION. UTILITIES DAMAGED AS A RESULT OF THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 9. PAVEMENT REPAIRS TO DRIVEWAYS OR OTHER AREAS DAMAGED BY THE CONTRACTOR, IS SUBSIDIARY AND WILL NOT BE MEASURED FOR PAYMENT
- 10. THE PLAN LINE WORK REPRESENTING THE EXISTING UNDERGROUND STRUCTURES AND PIPES IS BASED ON A LIMITED FIELD SURVEY. THE ENGINEER/SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN ON THE PLANS COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE ENGINEER/SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED.
- 11. OVERHEAD WIRES AND WIRE DROPS TO BUILDINGS ARE NOT SHOWN. THE CONTRACTOR SHALL ANTICIPATE THEIR EXISTENCE IN ALL OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR BRACING EXISTING UTILITY POLES, AS NECESSARY, FOR THE INSTALLATION OF NEW WORK.
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND PROTECTION OF ALL CONTROL POINTS, BASELINES, AND PROPOSED WORK, AS SHOWN ON THE DRAWINGS. UPON REQUEST, THE ENGINEER WILL MAKE AVAILABLE THE CONSTRUCTION DRAWINGS IN ELECTRONIC (CAD) FORMAT UPON EXECUTION BY THE CONTRACTOR OF AN ELECTRONIC FILE TRANSFER RELEASE FORM PROVIDED BY THE ENGINEER.

CONSTRUCTION SEQUENCE:

- 1. PRIOR TO THE START OF CONSTRUCTION PROVIDE A SCHEDULE AND A WRITTEN NARRATIVE OF THE CONSTRUCTION METHODS TO BE USED.
- 2. INSTALL AND MAINTAIN TEMPORARY AND PERMANENT EROSION CONTROL DEVICES THROUGHOUT CONSTRUCTION AS SHOWN ON THE DRAWINGS AND THE APPROVED SWPPP. ADDITIONAL MEASURES SHALL BE INSTALLED AS NECESSARY TO PREVENT SILTATION OF DOWNSTREAM DRAINAGE, BASED ON FIELD CONDITIONS.
- 3. DISPOSE OF EXCESS AND UNSUITABLE MATERIALS AS THE WORK PROGRESSES. DO NOT STOCK PILE SURPLUS MATERIALS AT THE SITE.
- 4. PERFORM WORK IN ACCORDANCE WITH WETLAND'S PERMIT CONDITIONS IN THE APPENDIX OF THE PROJECT MANUAL.
- 5. SPECIAL WORK IN WETLAND AREAS SHALL BE AS FOLLOWS:

A. PERFORM CONSTRUCTION DURING LOW FLOW CONDITIONS (I.E. DRY SEASON WHEN RAIN IS NOT FORECASTED).

B. IMPLEMENT BMP'S FOR CULVERT REPLACEMENT AS SPECIFIED IN THE SWPPP.

C. REMOVE EXISTING MATERIAL AND PREPARE CHANNEL AREAS AS SHOWN ON THE DRAWINGS.

D. INSTALL NEW PIPING, HEADWALLS AND CHANNEL STABILIZATION.

E. INSTALL EROSION FABRIC TO STABILIZE IMPACTED EMBANKMENT AREAS.

F. COMPLETE BACKFILL PROCEDURES IN ACCORDANCE WITH THE SPECIFICATIONS

G. LOAM AND SEED DISTURBED AREAS.

- 5. IMMEDIATELY STABILIZE DISTURBED AREAS AFTER PIPE INSTALLATION AND RE-ESTABLISH TEMPORARY EROSION CONTROL DEVICES MOVED DURING CONSTRUCTION.
- 6. FINISH GRADING, LOAM AND SEED DISTURBED AREAS AND BACK UP PAVEMENT WITH GRAVEL IMMEDIATELY FOLLOWING PAVEMENT INSTALLATION.
- 7. REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AS SOON AS VEGETATION IS ESTABLISHED AND DISTURBED AREAS ARE STABILIZED.

STORM SEWER NOTES:

1. EXISTING CATCH BASINS AND DRAINAGE PIPE STRUCTURES ARE TO REMAIN, UNLESS SHOWN OTHERWISE.

REFERENCE PLANS:

1. TOPOGRAPHIC PLAN OF CORPORATE DRIVE BY DOUCET SURVEY INC. DATED JUNE 30, 2017, LAST REVISED APRIL 25, 2018.

- 2. SITE PLANS 273 CORPORATE DRIVE PREPARED FOR MAGNA CORPORATION BY MILLETTE, SPRAGUE & COLWELL, INC. DATED JUNE 14, 2000, LAST REVISED OCTOBER 25, 2000.
- 3. SITE PLANS 164 & 166 CORPORATE DRIVE PREPARED FOR FLEXTRONICS INTERNATIONAL BY MILLETTE, SPRAGUE & COLWELL, INC. DATED AUGUST 2000, LAST REVISED JANUARY 2, 2001.
- 4. CITY OF PORTSMOUTH GIS MAPPING (WATER, SEWER, AND DRAIN SYSTEMS MAPPING).
- 5. AERIAL TOPOGRAPHY, CITY OF PORTSMOUTH.
- 6. UNDERGROUND CONDUIT (ELECTRONIC AND TELEPHONE) LOCATED BASED ON PLANS, PREPARED FOR PEASE DEVELOPMENT AUTHORITY BY DAVID COCHRAN & ASSOCIATES, DATED MARCH 2001.
- 7. GAS MAIN LOCATIONS BASED ON PLANS BY UNITIL SERVICE CORPORATION DATED AUGUST 11, 2017.
- 8. PEASE INTERNATIONAL TRADEPORT SEWER INTERCEPTOR CONTRACTS 1 AND 2, PREPARED BY UNDERWOOD ENGINEERS, INC. DATED SEPTEMBER 7, 2001.
- 9. PORTSMOUTH AIR FORCE BASE STORM DRAINS AND DRAINAGE SYSTEM LAYOUT PREPARED FOR THE CORPS. OF ENGINEERS, US ARMY BY WHITMAN & HOWARD DATED JANUARY 1954, LAST REVISED JUNE 6, 1954.
- 10. WATERSHED RESTORATION PLAN FOR HODGSCON BROOK, PORTSMOUTH 2004.
- 11. PEASE AIR FORCE BASE DRAINAGE SYSTEM SCHEMATIC, NOT DATED.

SURVEY NOTES & REFERENCES:

- 1. REFERENCE: TOPOGRAPHICAL SURVEY PLAN OF CORPORATE DRIVE, PREPARED FOR UNDERWOOD ENGINEERS, INC. BY DOUCET SURVEY, INC., LAST REVISED/UPDATED ON APRIL 25, 2018.
- 2. FIELD SURVEY PERFORMED BY DOUCET SURVEY, INC. DURING JUNE 2017 & APRIL 2018 USING A TRIMBLE S6 TOTAL STATION WITH A TRIMBLE TSC3 DATA COLLECTOR AND A TRIMBLE DINI DIGITAL AUTO LEVEL. TRAVERSE ADJUSTMENT BASED ON LEAST SQUARE ANALYSIS.
- 3. JURISDICTIONAL WETLANDS DELINEATED BY GOVE ENVIRONMENTAL SERVICES, INC. DURING JUNE 2017 IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL AND THE REGIONAL SUPPLEMENT TO THE CORPS OF ENIGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, VERSION 2.0, JANUARY 2012, US ARMY CORPS OF ENGINEERS. WETLANDS SHOWN BEYOND THE IMMEDIATE WORK AREA ARE DELINETAED ON THE PLANS UTIZILING REFERENCE PLANS, PORTSMOUTH AERIAL SURVEY AND VISUAL OBSERVATIONS.
- 4. HORIZONTAL DATUM BASED ON NEW HAMPSHIRE STATE PLANE (2800) NAD83 (2011) DERIVED FROM REDUNDANT GPS OBSERVATIONS UTILIZING THE KEYNET GPS VRS NETWORK.
- 5. VERTICAL DATUM BASED ON NAVD88 PER NHDOT DISK 379-0740 WITH A PUBLISHED ELEVATION OF 38.17
- 6. PROPER FIELD PROCEDURES WERE FOLLOWED IN ORDER TO GENERATE CONTOURS AT 2' INTERVALS. ANY MODIFICATION OF THIS INTERVAL WILL DIMINISH THE INTEGRITY OF THE DATA, AND DOUCET SURVEY, INC. WILL NOT BE RESPONSIBLE FOR ANY SUCH ALTERATION PERFORMED BY THE USER.
- 7. UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON OBSERVABLE PHYSICAL EVIDENCE AND PAINT MARKS FOUND ON—SITE.
- 8. ALL ELECTRIC, GAS, TELEPHONE, WATER, SEWER AND DRAIN SERVICES ARE SHOWN IN SCHEMATIC FASHION, THEIR LOCATIONS ARE NOT PRECISE OR NECESSARILY ACCURATE. NO WORK WHATSOEVER SHALL BE UNDERTAKEN ON THIS SITE USING THIS PLAN TO LOCATE THE ABOVE SERVICES. CONSULT WITH THE PROPER AUTHORITIES CONCERNED WITH THE SUBJECT SERVICE LOCATIONS FOR INFORMATION REGARDING SUCH, CALL DIG-SAFE AT 1-888-DIG-SAFE.
- 9. FIELD INVESTIGATIONS OF CATCH BASINS AND DRAIN MANHOLES ALONG CORPORATE DRIVE WAS COMPLETED IN JUNE 2018 BY UNDERWOOD ENGINEERS, INC. PIPE INVERTS AND WATER LEVELS IN STRUCTURES WERE RECORDED UNDER ZERO FLOW (NO FLOW) CONDITIONS.
- 10. THE WETLAND DELINEATION WORK WAS UPDATED ON APRIL 26, 2021 BY BRENDAN QUIGLEY, NHCWS #249. WETLAND BOUNDARIES WERE EVALUATED UTILIZING THE FOLLOWING STANDARDS:
 - A. REGIONAL SUPPLEMENT TO THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL: NORTHCENTRAL AND NORTHEAST REGION, (VERSION JANUARY 2012, U.S. ARMY CORPS OF ENGINEERS.
 - B. FIELD INDICATORS OF HYDRIC SOILS IN THE UNITED STATES, A GUIDE FOR IDENTIFYING AND DELINEATING HYDRIC SOILS, VERSION 8.2. UNITED STATES DEPARTMENT OF AGRICULTURE (2018).
 - C. NEW ENGLAND HYDRIC SOILS TECHNICAL COMMITTEE. 2019 VERSION 4, FIELD INDICATORS FOR IDENTIFYING HYDRIC SOILS IN NEW ENGLAND. NEW ENGLAND INTERSTATE WATER POLLUTION CONTROL COMMISSION, LOWELL, MA.
 - D. NATIONAL WETLAND PLANT LIST, VERSIONS 3.5 (2020).

LEGEND:

EXISTING	PROPOSED PROPOSED	-
D		DRAIN LINE
OHW——UGU——		OVERHEAD WIRE UNDERGROUND UTILITIES
126		MINOR CONTOUR ELEVATION
— <u>130</u> — 126.5' ×	130	MAJOR CONTOUR ELEVATION SPOT ELEVATION
<u>111, 111, 111, 111, 111, 111, 111, 111</u>		WETLAND
		EDGE OF WETLAND
· · · ·		100' WETLAND SETBACK WETLAND FLAG (SEE NOTE 3)
		STREAM/BROOK
		TEMPORÁRY WETLANDS IMPACT
		PERMANENT
		WETLANDS IMPACT PROPERTY BOUNDARY
- Company		DECIDUOUS TREE
Marin 100 Marin		
	~~~~~~	CONIFER TREE
		BUSH LINE
		CONCRETE
		RIP RAP
		LANDSCAPED AREA
		CONCRETE/GRANITE BOUND
∅ /.P.F. /.R.F.		IRON PIPE - IRON ROD
D.H.F.		DRILL HOLE
FA FP		FIRE ALARM BOX
FP ○		FLAG POLE LIGHT POLE
-•		GUY POLE
-\(\)		GUY WIRE HANDHOLE
TB		TELEPHONE BOX
1		TELEPHONE MANHOLE
		UTILITY POLE
<b>↓</b> -¤-		UTILITY POLE W/ LIGHTS
		FLARED END SECTION
©V E E O	-	GAS VALVE
E F		ELECTRIC MANHOLE ELECTRIC BOX
——————————————————————————————————————		SIGN
(M) (M)		BOLLARD MANHOLE MISC.
		POST
⊙ NS NS NS NS NS NS NS NS NS NS		HYDRANT
<b>1</b> 50		WATER SHUT-OFF
ICV		WATER VALVE IRRIGATION CONTROL VALVE
<u>S</u>		SEWER MANHOLE
© O		SEWER CLEANOUT
		CATCH BASIN
<b>III</b>	<b>(</b>	DOUBLE CATCH BASIN DRAIN MANHOLE
C	<b>-</b>	CATV BOX
♡ ep		MAILBOX EDGE OF PAVEMENT
swl		SINGLE WHITE LINE
syl dyl		SINGLE YELLOW LINE DOUBLE YELLOW LINE
dswl		DASHED SINGLE WHITE LINE
vgc sac		VERTICAL GRANITE CURB
sgc		SLOPED GRANITE CURB

# PERMITS & REGULATORY:

THE FOLLOWING PERMITS AND REGULATORY CONDITIONS APPLY TO THE WORK (SEE APPENDIX OF PROJECT MANUAL):

- 1. NHDES WETLANDS PERMIT #2021-03770.
- 2. ARMY CORPS OF ENGINEERS.
- 3. CITY OF PORTSMOUTH CONSERVATION COMMISSION APPROVAL 1/12/22.
- 4. PDA EXCAVATION PERMIT TO BE FILED BY THE CONTRACTOR PRIOR TO THE WORK.
- 5. EPA CONSTRUCTION GENERAL PERMIT NOI TO BE FILED BY THE CONTRACTOR PRIOR TO THE WORK.

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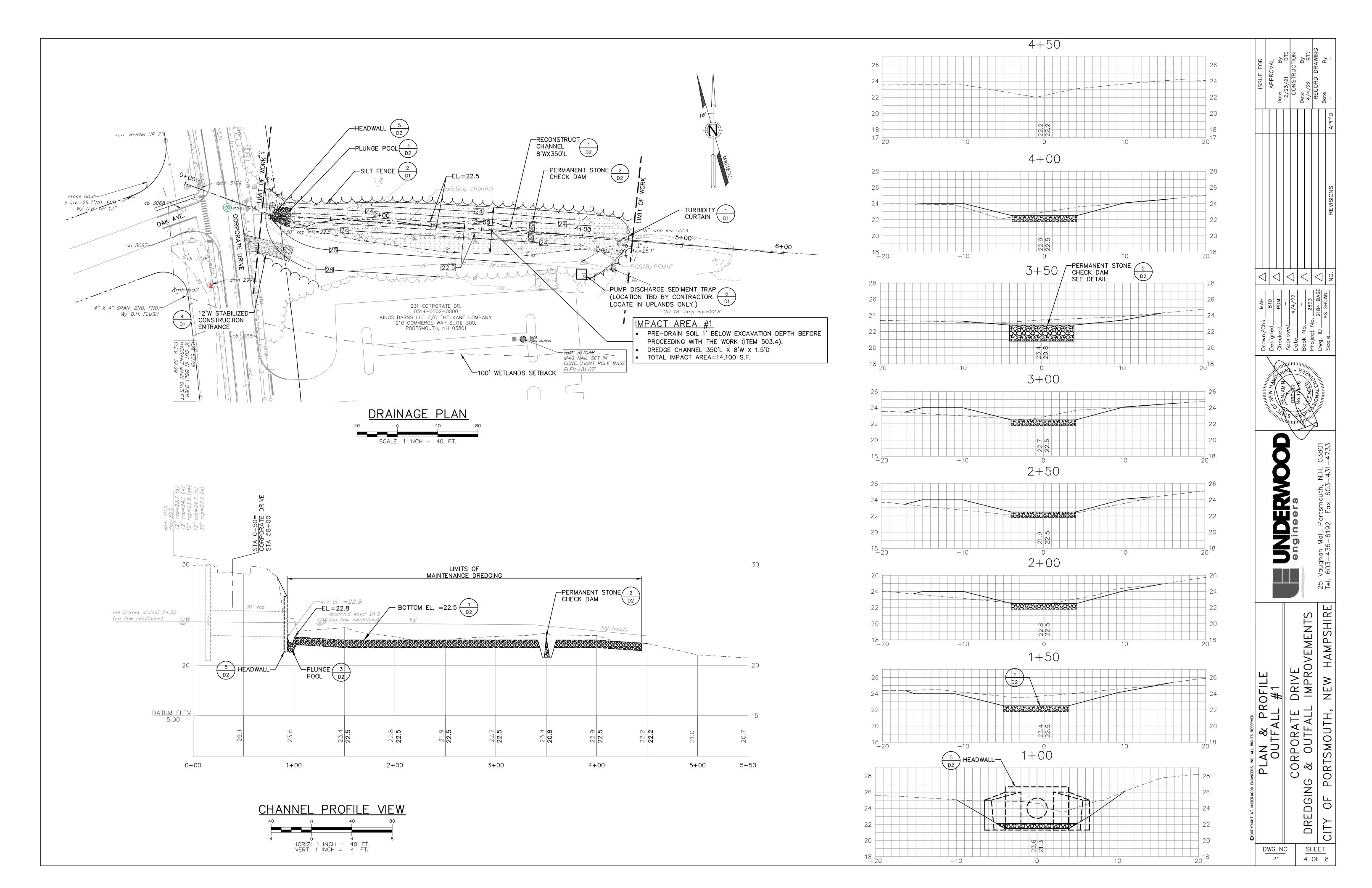
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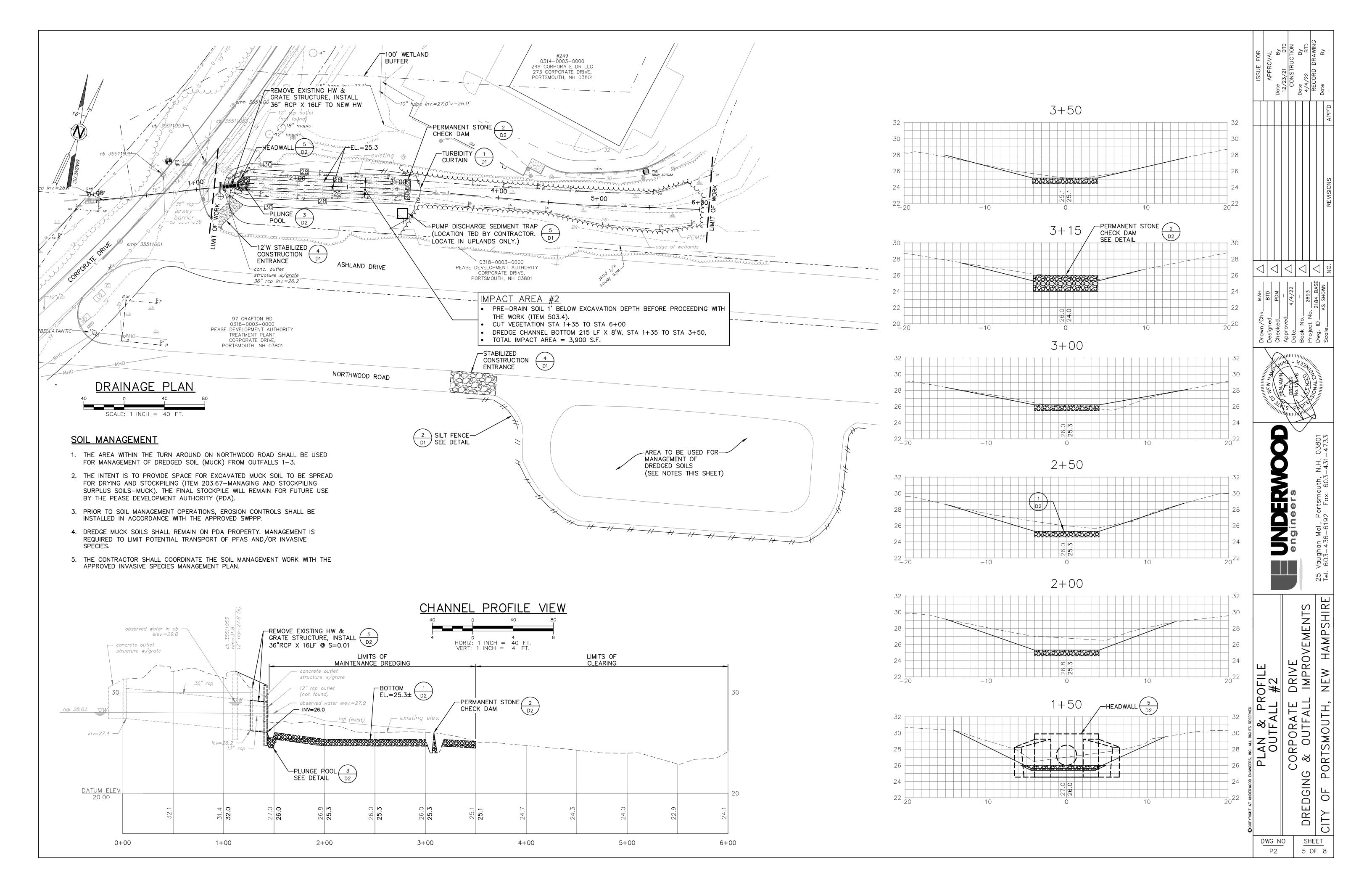
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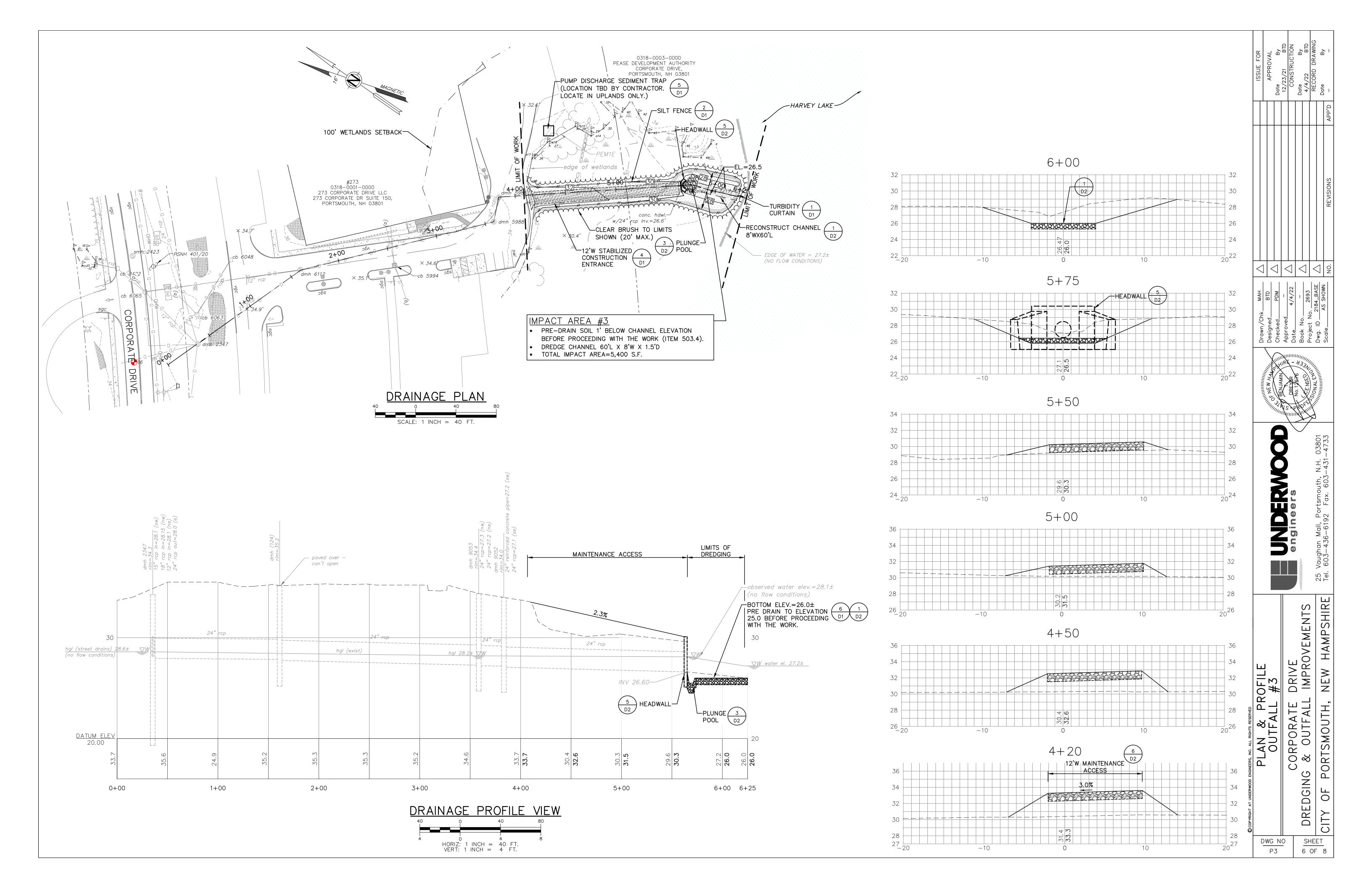
<u>SHEET</u> 2 OF 8

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	Excavation	n and Em	<u>bankme</u>	<u>nt</u>	T	Т		Ι			ISSUE FC  APPROVA  te  2/23/21  CONSTRUCT
is a macronic macronic					E	CEM 203.1: Common Excavation (CY)	ITEM 203.4: Muck/Unsuitable Material Excavation (F) (CY)	ITEM 203.6: Embank ment In Place (F) (CY)	ITEM 646.412: Turf Establishment with mulch, tack fiers and humus (F)	ITEM 646.512: Turf Establishment with mulch, tackfiers and loam (F)	
		Fill Area (SF)	Cut Area (SF)	Fill Area (SF)	Sut Area (SF)				(SY)	(SY)	
	STATION OUTFALL 1 1+00	Wetland 0	Wetland 41.72	Upland 0	Upland 0	0	11	0	Wetland 16	Upland 0	<u> </u>
	1+50 2+00 2+50	3.65 6.89 14.57	25.42 8.91 2.09	0 0 0.82	0 0 0	0 0 0	47 17 4	3 10 21	111 111 111	74 60 59	<u> </u>
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CORPORATE DRIVE KEY	2+00									RIGHT AT LINDER	YRIGHT AT UNDER
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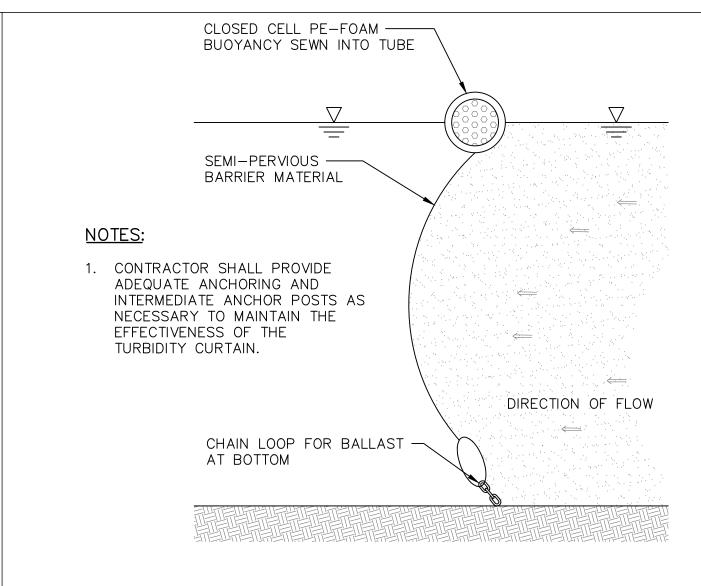




# EROSION & SEDIMENT CONTROL NOTES (GENERAL):

DURING CONSTRUCTION AND THEREAFTER, EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED:

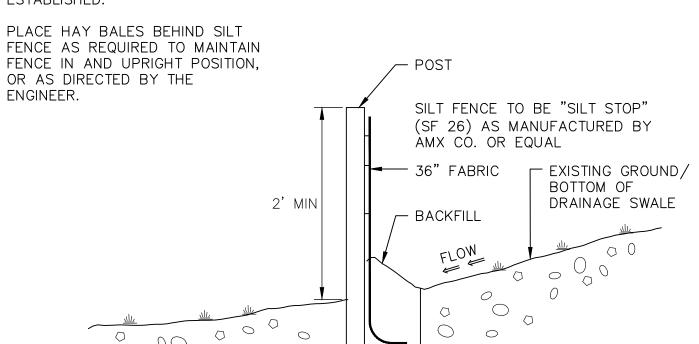
- 1. EROSION CONTROLS SHALL BE IN PLACE BEFORE EARTH MOVING OPERATIONS CAN BEGIN
- 2. EXCAVATION AND EARTHWORK SHALL BE CONDUCTED IN A MANNER THAT WILL MINIMIZE EFFECTS OF EROSION THROUGHOUT CONSTRUCTION.
- 3. PROVIDE A STABILIZED CONSTRUCTION ENTRANCE EXTENDING FROM THE ACCESS POINT OF EACH OUTFALL AREA. INSTALL SILT FENCE ALONG PERIMETER OF WORK AREAS IN WETLANDS TO PREVENT UNAUTHORIZED IMPACTS.
- 4. DREGGED CHANNEL AREAS SHALL BE RESTORED USING EXISTING SOILS AND WETLAND SAND
- 5. THE SMALLEST PRACTICABLE AREA OF LAND SHALL BE EXPOSED FOR THE SHORTEST PRACTICAL PERIOD AT ANY GIVEN TIME DURING CONSTRUCTION. DRAINAGE DITCHES, SWALES AND STEEP SLOPE EMBANKMENTS SHALL BE LOAMED, SEEDED AND STABILIZED WITHIN 72-HOURS OF FINAL GRADING. THE MAXIMUM PERIOD ANY ONE AREA MAY BE EXPOSED IS 45 CALENDAR DAYS.
- 6. REFER TO DRAINAGE AND EROSION CONTROL DETAILS FOR ADDITIONAL NOTES AND SPECIFICATIONS.
- 7. PERMANENT SEEDING AND MULCHING OF UPLAND AREAS: • ALL DISTURBED AREAS SHALL BE GRADED IN A MANNER CONSISTENT WITH SURROUNDINGS AS SHOWN ON THE DRAWINGS, UNLESS DIRECTED, AND COVERED WITH A MINIMUM OF 4 INCHES OF SCREENED TOPSOIL, SEEDED, FERTILIZED AND MULCHED AS REQUIRED TO PROVIDE A PERMANENT, DENSE, HEALTHY GROWTH OF GRASS. • SCARIFY UNDERLYING SOIL TO A MINIMUM DEPTH OF 4 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
- 9. UPLAND SLOPES (3:1 OR FLATTER) SHALL BE SEEDED WITH PARK SEED MIXTURE, NHDOT SECTION 644.2.2.
- 10. UPLAND SLOPES (STEEPER THAN 3:1) SHALL BE SEEDED WITH A SLOPE SEED MIXTURE, SECTION 644.2.3. AFTER SEEDING, STEEP SLOPES SHALL BE MULCHED WITH EXCELSIOR OR EQUAL AND A CHEMICAL TACKIFIER SHALL BE APPLIED TO ALL SIDE SLOPES STEEPER THAN 3:1. RATE OF APPLICATION SHALL BE AS RECOMMENDED BY THE MANUFACTURER. INSTALL JUTE MATTING, EXCESIOR STABILIZATION BLANKET OR STONE FILL ON STEEP SLOPES, WHERE DIRECTED.
- 11. TEMPORARY SEEDING AND MULCHING:
- TEMPORARILY SEED DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR MORE THAN 21 DAYS WITH ANNUAL RYEGRASS AND MULCH. TEMPORARILY MULCH DISTURBED AREAS, INCLUDING STOCKPILES, WHICH WILL NOT BE WORKED FOR 7 TO 21 DAYS WITH CHOPPED HAY AND NETTING.
- 12. EROSION & SEDIMENT CONTROL SHALL BE INSTALLED WHERE NECESSARY TO MINIMIZE THE POTENTIAL FOR EROSION. ALL WORK SHALL BE COMPLETED IN CONFORMANCE WITH THE LATEST EDITION OF NEW HAMPSHIRE STORMWATER MANUAL, VOLUME 3 "EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION" TO PREVENT THE DEGRADATION OF DOWNSTREAM PROPERTIES AND DRAINAGE.
- 13. THE EROSION CONTROL SPECIFIED AND DETAILED ON THE PLANS SHALL BE CONSIDERED THE MINIMUM REQUIRED AND IS TO BE USED AS A GUIDELINE ONLY. ADDITIONAL MEASURES MAY BE DICTATED BY FIELD CONDITIONS. PROVIDE ADDITIONAL EROSION CONTROL AS REQUIRED BY THE TOWN, STATE OR THE ENGINEER.
- 14. AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED: FINISHED COURSE GRAVELS HAVE BEEN INSTALLED; A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED. NON-EROSIVE MATERIALS SUCH AS PERMANENT EROSION MATTING, CONCRETE STONE OR RIP RAP HAS BEEN PROPERLY INSTALLED, OR EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.
- 15. WINTER CONSTRUCTION NOTES:
- A. ALL PROPOSED VEGETATED AREAS WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS.
- B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85% VEGETATIVE GROWTH BY OCTOBER 15TH, OR WHICH ARE DISTURBED AFTER OCTOBER 15TH, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS.
- 16. THE CONTRACTOR IS RESPONSIBLE FOR STORMWATER MANAGEMENT DURING ALL PHASES OF CONSTRUCTION. NO WORK SHALL BE PERMITTED IN FLOWING WATER. DIVERSION SHALL BE ACCOMPLISHED BY THE USE OF SAND BAGS, BERMS, TEMPORARY CULVERTS/SWALES, AND/OR PUMPING. ALL DIVERTED WATER SHALL BE DISCHARGED TO DIRT BAGS, STONE FILL OR OTHER SUITABLE EROSION CONTROL STRUCTURE.
- 17. THE CONTRACTOR MAY NOT REMOVE EROSION CONTROL MEASURES UNTIL TURF IS ESTABLISHED. DISTURBED AREAS REMAINING AFTER OR AS A RESULT OF THE REMOVAL OF TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOAMED, SEEDED AND MULCHED.
- 18. PERMITS: IN ADDITION TO THE PERMITTING APPROVAL BY NHDES WETLANDS BUREAU, THE PROPOSED PROJECT IS SUBJECT TO A NPDES GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES ISSUED BY EPA. REGULATORY PERMITTING PERSONNEL AND THE ENGINEER MAY DIRECT THE CONTRACTOR TO MODIFY THE EROSION CONTROL PRACTICES AND THE APPROVED PLAN AT ANY TIME BASED ON SITE CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.
- 19. TEMPORARY EROSION CONTROL MEASURES, HAY BALE BARRIERS, SEDIMENT TRAPS AND STONE CHECK DAMS ARE TO BE MAINTAINED AND KEPT CLEAN UNTIL ALL EXPOSED ARES HAVE A HEALTHY STAND OF GROUND COVER, AT WHICH TIME TEMPORARY MEASURES ARE TO BE REMOVED. CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EROSION CONTROL MEASURES, AND DISPOSAL OF TEMPORARY MATERIALS AND SILT.



## TURBIDITY CURTAIN D1 NOT TO SCALE

# SILT FENCE CONSTRUCTION NOTES: SILT FENCE TO BE CONSTRUCTED

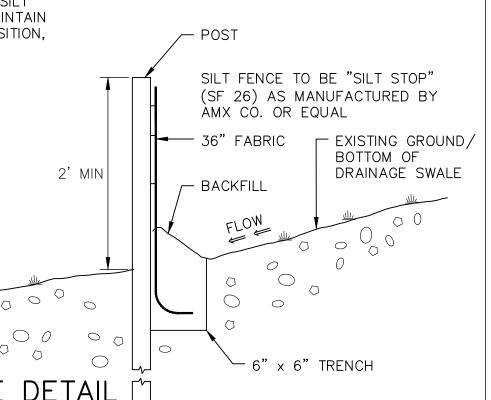
- AT LOCATIONS SHOWN ON THE PLANS BEFORE CONSTRUCTION PROCEEDS. FENCE SHALL BE MAINTAINED THROUGHOUT ENTIRE DURATION OF CONSTRUCTION UNTIL GROUND COVER IS ESTABLISHED.
- 2. PLACE HAY BALES BEHIND SILT FENCE AS REQUIRED TO MAINTAIN FENCE IN AND UPRIGHT POSITION, OR AS DIRECTED BY THE



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SILT FENCE DETAIL
NOT TO SCALE

- 1-1/8" x 1-1/8" x 54" APPROX. SPACING CURED OAK POST OR STEEL 'T' SECTION (TYP) FLOW **FENCE** SLOPE EROSION PROTECTION



### - PUMP DISCHARGE WIRE OR NYLON - 2 RE-BARS, STEEL BOUND BALES PICKETS, OR 2" X 2" PLACED ON THE STAKES 1-1/2' TO 2' CONTOUR IN GROUND -PLACE CRUSHED STONE BEHIND TO REINFORCE BALES AND PROVIDE $FLOW \Longrightarrow \Longrightarrow$ ADDITIONAL FILTERING

___3" VERTICAL FACE <u>PLAN</u> EMBEDDING DETAIL

# HAY BALE BARRIER CONSTRUCTION SPECIFICATIONS

- 1. BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY BUTTED.
- 2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3".

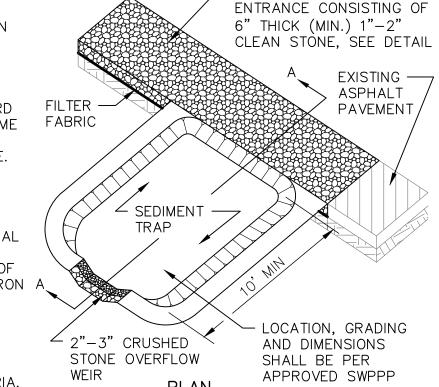
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.

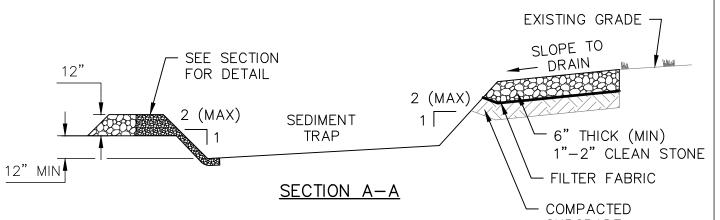
# 5 PUMP DISCHARGE SEDIMENT TRAP

# NOTES:

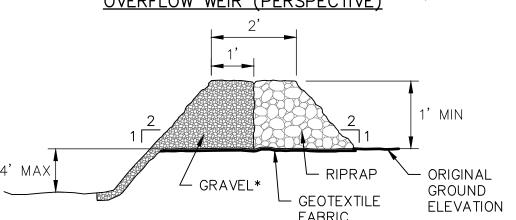
- PROVIDE SEDIMENT RAP ON DOWN GRADIENT SIDE (OR BOTH SIDES) AS REQUIRED.
- FLUSH SURFACE OF STABILIZED CONSTRUCTION ENTRANCE TOWARD SEDIMENT TRAP WITH HIGH VOLUME WATER FLOW AS NEEDED TO MAINTAIN CLEAN STONE SURFACE. WATER USED FOR FLUSHING OF STONE AND VEHICLE WASHING SHALL BE PROVIDED BY CONTRACTOR VIA WATER TRUCK. NO CONNECTION TO THE MUNICIPAL WATER SYSTEM SHALL BE PERMITTED FOR THE PURPOSES OF VEHICLE WASHING OR STONE APRON A FLUSHING UNLESS APPROVED BY
- SEE SWPPP SITE MAPS FOR LOCATION OF SEDIMENT TRAP(S)



THE OWNER. AND ANY MINIMUM SIZING CRITERIA. <u>PLAN</u>



FILTER FABRIC



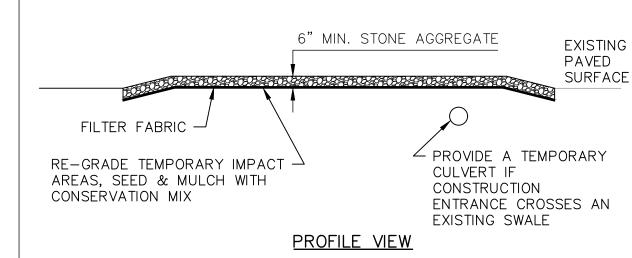
*GRAVEL SHALL BE 2"-3" CLEAN STONE TEMPORARY SEDIMENT TRAP

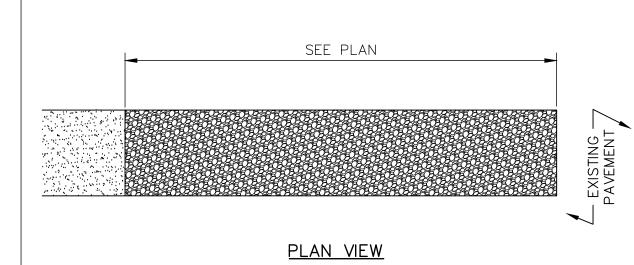
# SUBGRADE RIPRAP DIVERSION DIKE <ĠŔÁVEĹ* OVERFLOW WEIR (PERSPECTIVE)

4' MAX FABRIC OVERFLOW WEIR (SECTION)

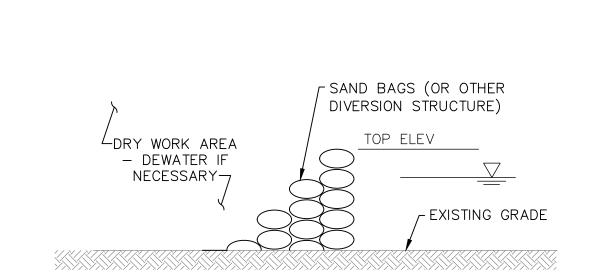
# STABILIZED CONSTRUCTION STABILIZED CONSTRUCTION ENTRANCE SPECIFICATIONS:

- THE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE SHALL CONSIST OF PLACING 1"-2" STONE, RECLAIMED STONE OR RECYCLED CONCRETE EQUIVALENT, AT THE LOCATION WHERE CONSTRUCTION VEHICLES EXIT THE SITE IN ORDER TO MINIMIZE MIGRATION OF DIRT ONTO THE ADJOINING PAVED ROADS.
- 2. STONE SHALL BE 1" TO 2" FRACTURED ROCK.
- 3. STONE SHALL BE PLACED OVER GEOTEXTILE FABRIC.
- 4. THE MINIMUM STONE DEPTH SHALL BE 6 INCHES.
- SURFACE WATER RUNOFF FROM THE PAVED ROAD SHALL NOT BE PERMITTED TO COME IN CONTACT WITH THE STONE ENTRANCE. USE A CROSS CULVERT UNDER THE NEW ENTRANCE OR CONSTRUCT A BERM ALONG THE EDGE OF EXISTING PAVEMENT TO DIVERT WATER AWAY FROM THE STONE.
- 6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF SEDIMENT ONTO PUBLIC ROADWAYS. TOP DRESS OR REPLACE STONE AS NEEDED. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS SHALL BE IMMEDIATELY REMOVED.
- 7. THE ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE CONDITIONS WARRANT ITS REMOVAL.





**STABILIZED CONSTRUCTION ENTRANCE** D1 NOT TO SCALE (TEMPORARY)



TYPICAL TEMPORARY DIVERSION

NOT TO SCALE

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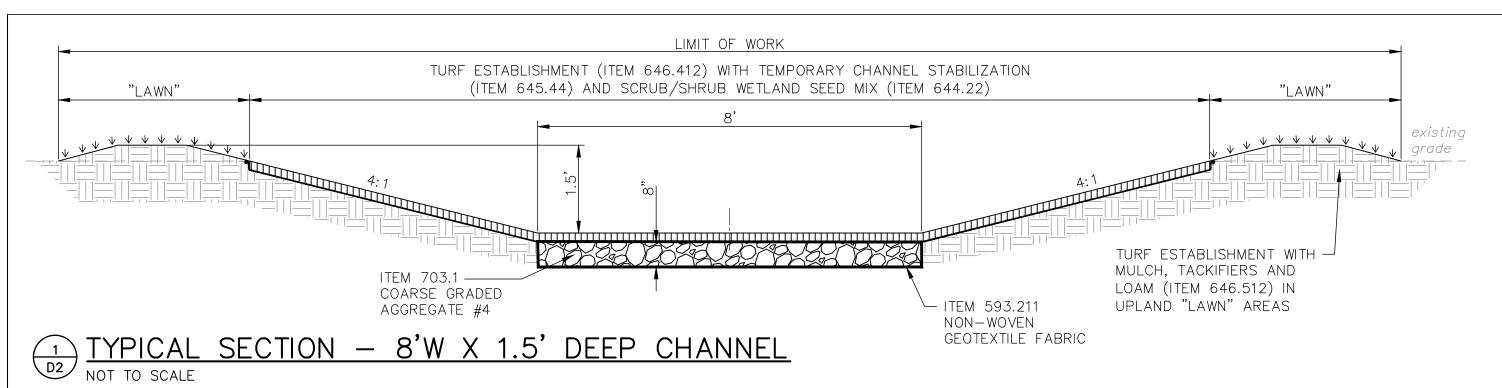
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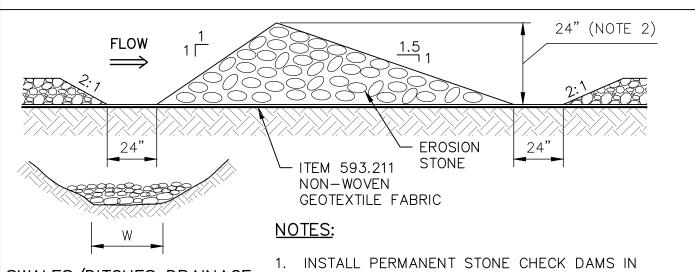
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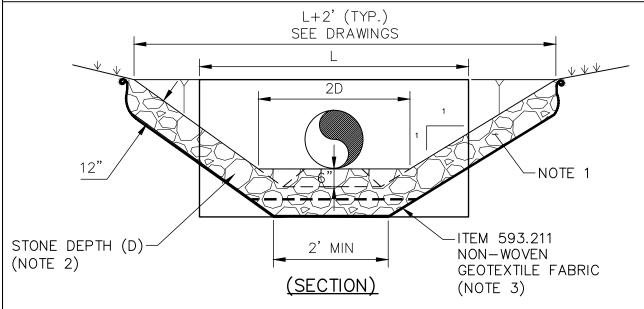
SWALES/DITCHES DRAINAGE

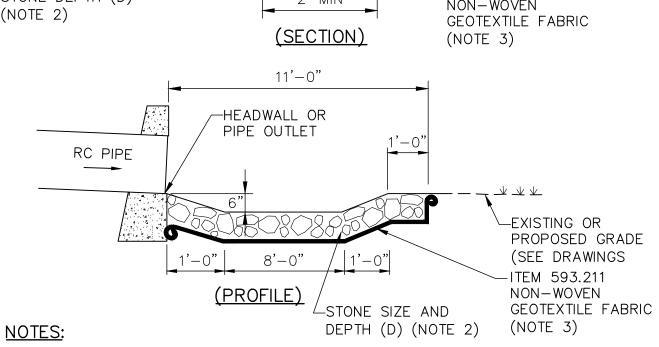
UNSTABILIZED DITCHES AND SWALES.

2. CONSTRUCT CHECK DAM WITH THE PIPE ELEVATION EQUAL TO THE OUTLET INVERT

3. FOR STONE GRADATION, SEE NOTE 2, DETAIL  $\begin{pmatrix} 3 \\ D2 \end{pmatrix}$ 

# PERMANENT STONE CHECK DAM D2 NOT TO SCALE



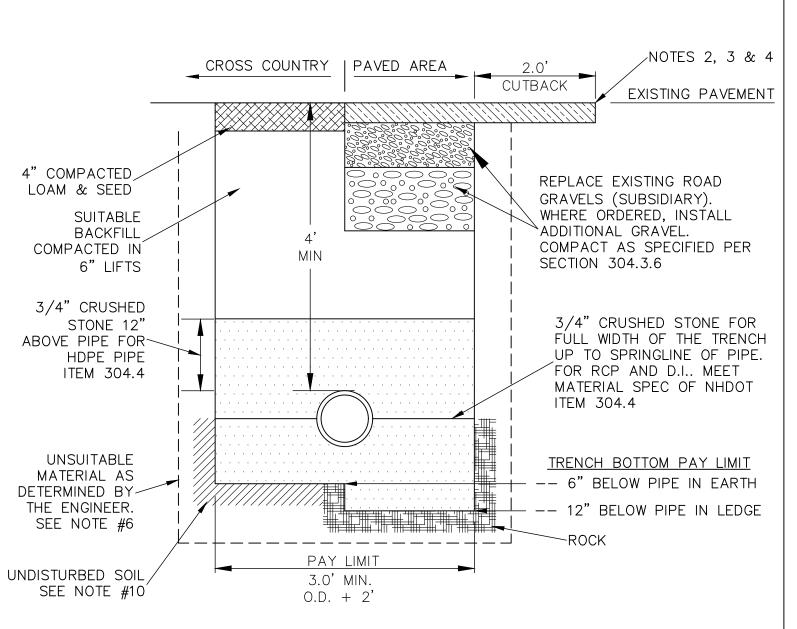


- CONSTRUCT PLUNGE POOL AT CULVERT OUTLET TO THE WIDTHS AND LENGTHS SHOWN ON THE DRAWINGS. SIDE SLOPES ARE 1H: 1V AT FACE OF HEADWALL. SIDE SLOPES EXTENDING BEYOND HEADWALL VARY, GRADE TO MATCH ADJACENT TERRAIN, SUBSIDIARY.
- 2. STONE USED FOR THE PLUNGE POOL SHALL MEET THE FOLLOWING GRADATION:

	STONE SIZES				
STONE CLASS	C1	C2	C3		
STONE DEPTH (D)	12"	15"-18"	24"-36"		
% PASSING BY WEIGHT					
100%	8"	12"	18"		
80-90%	7"	11"	16"		
40-60%	5"	8"	12"		
0-15%	2"	4"	4"		

- GEOTEXTILE FABRICS SHALL BE PROTECTED FROM PUNCTURE OR TEARING DURING THE PLACEMENT OF THE EROSION STONE. DAMAGED AREAS IN THE FABRIC SHALL BE REPAIRED BY PLACING A PIECE OF FABRIC OVER THE DAMAGED AREA OR BY COMPLETE REPLACEMENT OF THE FABRIC. ALL OVERLAPS REQUIRED FOR REPAIRS OR JOINING TWO PIECES OF FABRIC SHALL BE A MINIMUM OF 18 INCHES. PAY AS ITEM 593.211.
- STONE MAY BE PLACED BY EQUIPMENT AND SHALL BE CONSTRUCTED TO THE FULL LAYER THICKNESS IN ONE OPERATION AND IN SUCH A MANNER AS TO PREVENT SEGREGATION OF THE STONE SIZES.

3 PLUNGE POOL AT PIPE OUTLET D2 NOT TO SCALE

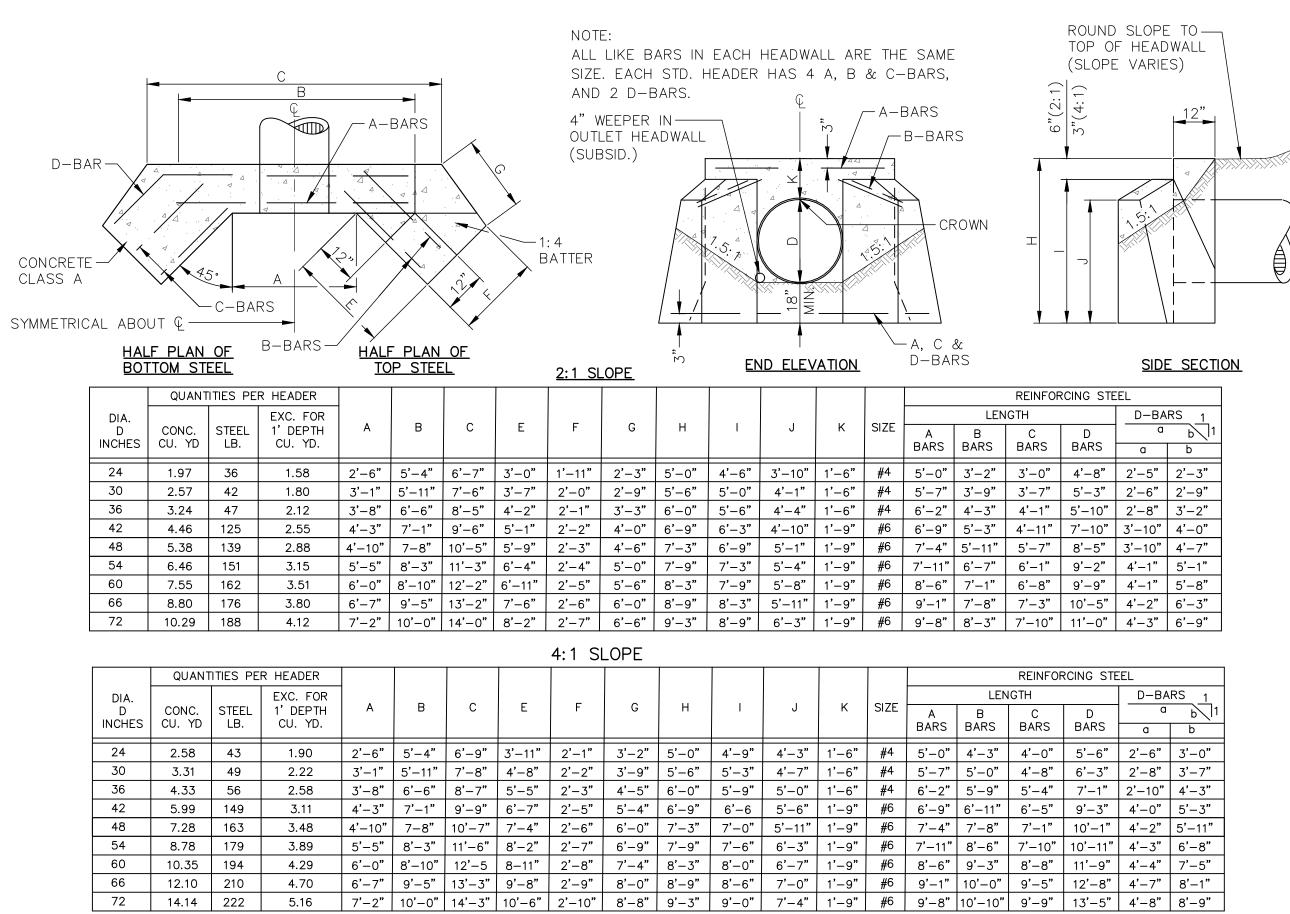


PAY LIMITS				
TRENCH WIDTH	I.D.			
36" I.D. + 24" 2 x I.D.	UP TO 12" 12" TO 24" OVER 24"			

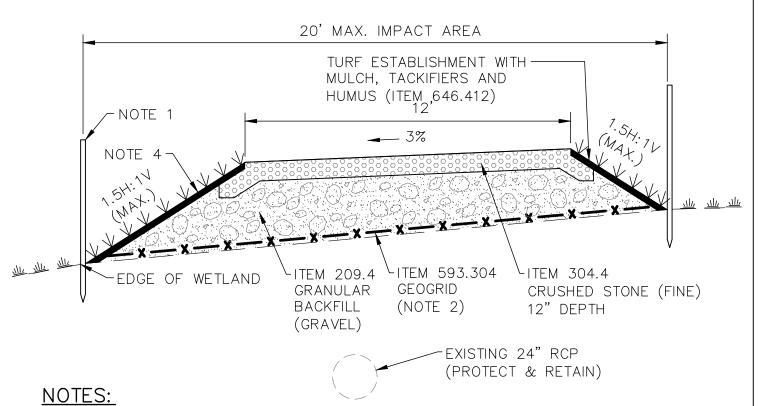
# DRAINAGE TRENCH NOTES:

- 1. NOT USED
- 2. NOT USED.
- 3. NOT USED.
- 4. NOT USED.
- 5. <u>INSPECTION:</u> FOLLOWING INSTALLATION DRAIN LINES SHALL BE CLEANED AND VISUALLY INSPECTED. PIPES SHALL BE TRUE TO LINE AND GRADE PRIOR TO ACCEPTANCE AND USE. DAMAGED OR OTHERWISE DEFICIENT PIPE SHALL BE REJECTED AND REMOVED FROM THE JOB SITE
- 6. <u>Unsuitable material & over excavation:</u> any excavation outside of defined pay limit SHALL BE STRICTLY COORDINATED AND MEASURED WITH THE ENGINEER FOR PAYMENT. ANY MATERIAL REMOVED WITHOUT PRIOR AUTHORIZATION SHALL NOT BE PAID. EXCAVATION AREAS SHALL BE BACKFILLED WITH APPROPRIATE BEDDING MATERIALS. UNSUITABLE REMOVAL AND REPLACEMENT MATERIAL WITHIN TRENCH PAY LIMITS ARE SUBSIDIARY TO THE ITEM.
- 7. MATERIAL SHALL BE REPLACED IN KIND OF WHENEVER POSSIBLE.
- 8. <u>SUITABLE MATERIAL</u>: SUITABLE MATERIAL FOR TRENCH BACKFILL SHALL BE THE NATURAL MATERIAL EXCAVATED DURING THE COURSE OF CONSTRUCTION, SHALL EXCLUDE DEBRIS, PIECES OF PAVEMENT, ORGANIC MATTER, TOP SOIL, ALL WET OR SOFT MUCK, PEAT OR CLAY, ALL EXCAVATED LEDGE MATERIAL AND ALL ROCKS OVER SIX INCHES IN THE LARGEST DIMENSION, OR ANY MATERIAL WHICH WILL NOT PROVIDE SUFFICIENT SUPPORT OR MAINTAIN THE COMPLETED CONSTRUCTION IN A STABLE CONDITION. SUITABLE MATERIAL SHALL BE PLACED IN 6" LIFTS AND THOROUGHLY COMPACTED.
- 9. <u>COMPACTION:</u> BACKFILL OF THE TRENCHES SHALL BE COMPACTED TO TO 95% MAX. DRY DENSITY UNDER ALL PAVED AREAS AND 92% MAX. DRY DENSITY UNDER OTHER AREAS IN ACCORDANCE WITH NHDOT STANDARD SPECIFICATIONS - SECTION 304.
- 10. IF TRENCH BOTTOM IS DISTURBED THEN CONTRACTOR SHALL COMPACT UNTIL FIRM.
- 11. SHORING AND STABILIZING OF TRENCH SIDEWALLS DURING EXCAVATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY TRENCH EXCAVATION BEYOND THE LIMITS OF PAY EXCAVATION INDICATED INCLUDING ROCK OR ROCK STRUCTURE EXCAVATION.
- 12. ADHERE TO ALL LOCAL STATE AND FEDERAL SAFETY STANDARDS.

TYPICAL DRAIN TRENCH DETAIL



# CONCRETE HEADWALL WITH 45° WINGS FOR R.C. PIPE (P.C.-7) D2 NOT TO SCALE



- 1. SILT FENCE TO BE INSTALLED PRIOR TO EARTHWORK (SEE PLAN FOR LOCATION.)
- 2. REMOVE HUMUS (TOP SOIL) PRIOR TO PLACEMENT OF GEOGRID.PLACE A 2" LIFT OF CRUSHED STONE FINE (304.4) OVER GEOGRID PRIOR TO PLACING GRANULAR BACKFILL.
- 3. SEE SECTIONS FOR GRADING/GRADING LIMITS.
- 4. INSTALL TEMPORARY SLOPE STABILIZATION TYPE D, WILDLIFE FRIENDLY (ITEM 645.44) ON SLOPES GREATER THAN 2H: 1V.

6 MAINTENENCE ACCESS TYPICAL SECTION

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