

# WATERBORO CROSSING

SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030

APPLICANT:

DELPHI HOLDINGS X, LLC

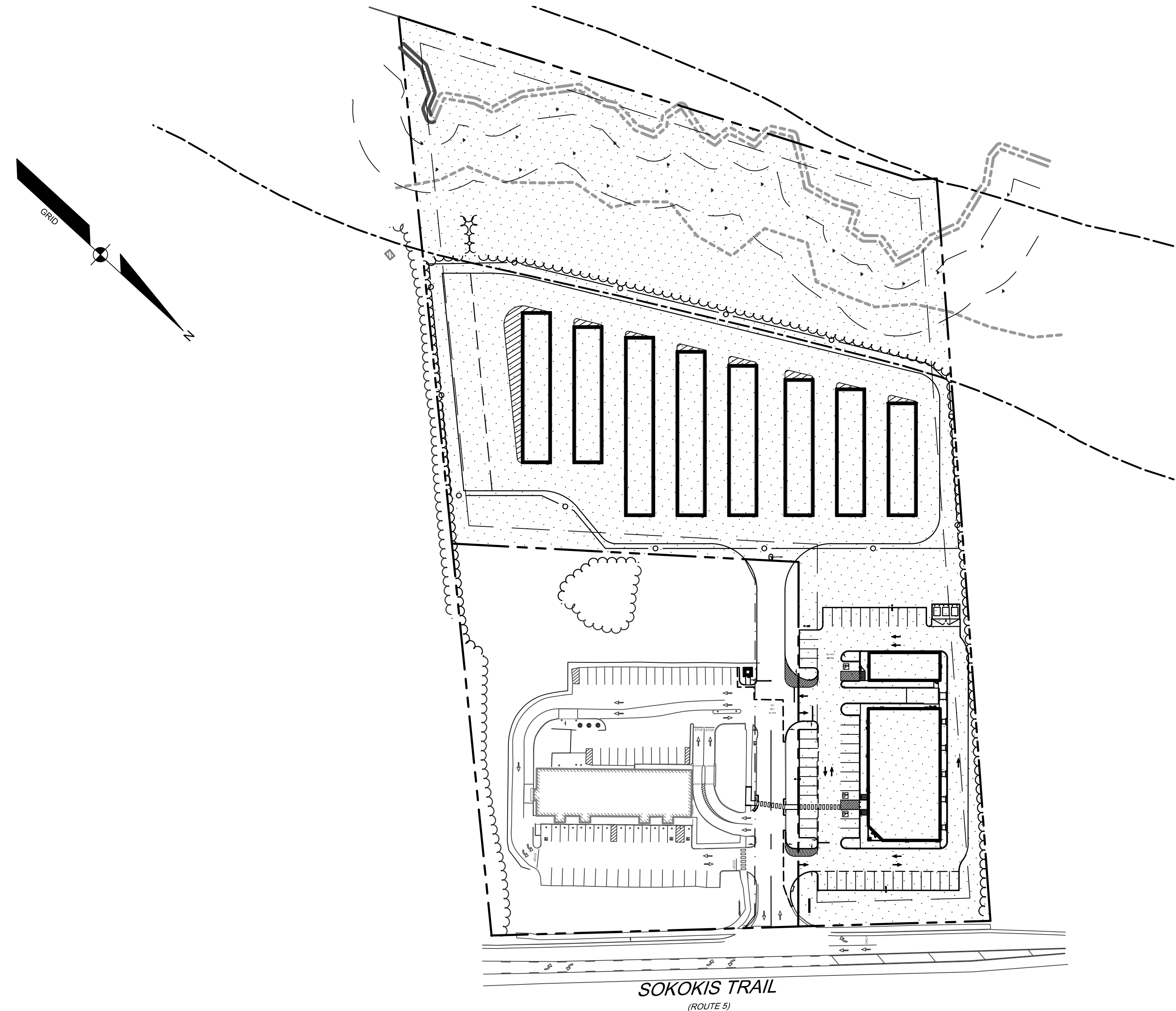
476 ALFRED STREET  
BIDDEFORD, ME 04005

ENGINEER/SURVEYOR/  
LANDSCAPE ARCHITECT:

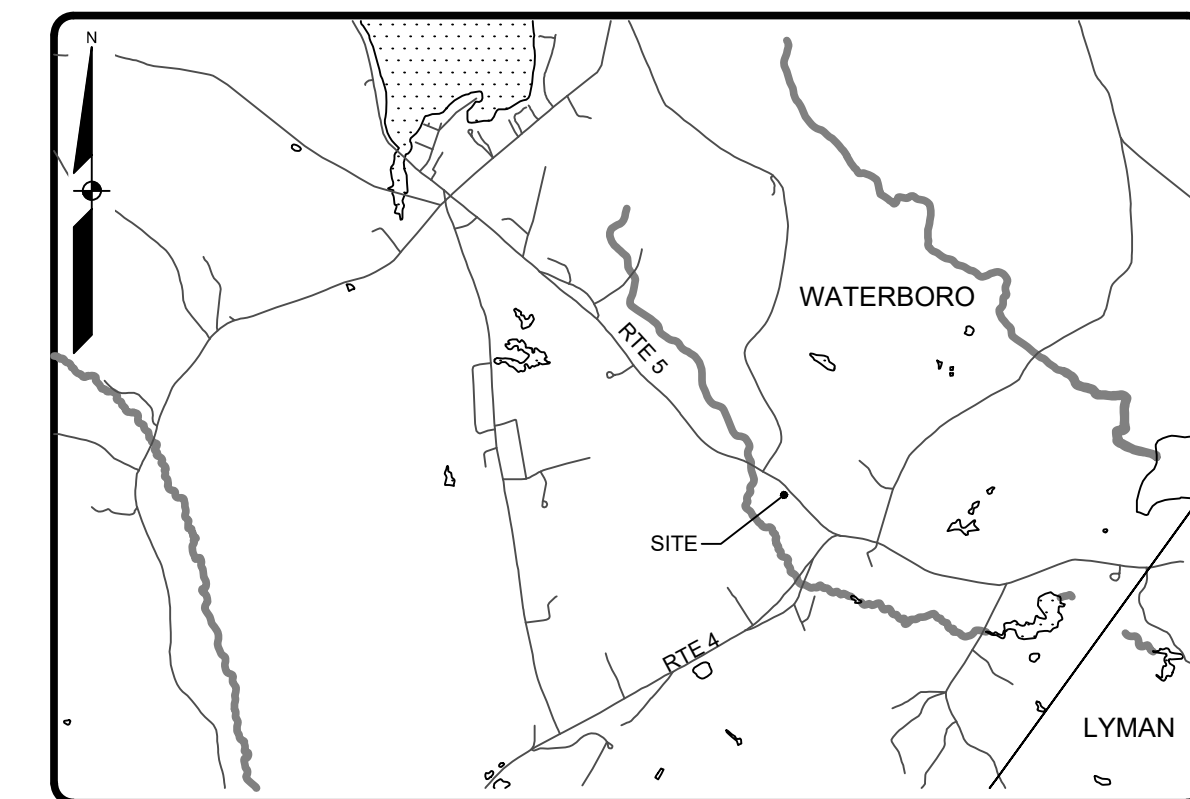
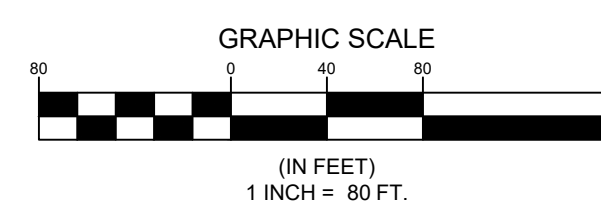


WWW.SEBAGOTECHNICS.COM

75 John Roberts Rd.  
Suite 4A  
South Portland, ME 04106  
Tel. 207-200-2100



SCALE: 1" = 80'




LOCATION MAP

NT:

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1 OF 1	EXISTING CONDITIONS SWM PLAN
1 OF 1	PROPOSED CONDITIONS SWM PLAN

AARON C. HUNTER, PE # 16326



06-17-2022

[illegible]

NOT FOR  
CONSTRUCTION

COVER SHEET  
OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	AS NOTED
PROJECT	16477

SHEET 1 OF 20

6477C.dwg, TAB:C

EXISTING		PROPOSED
---	PROPERTY LINE/R.O.W.	---
---	ABUTTER LINE/R.O.W.	---
---	DEED LINE/R.O.W.	---
---	TIE LINE	---
---	SETBACK	---
---	EASEMENT	---
---	BUFFER	---
---	FLOODPLAIN	---
---	FLOODWAY	---
---	CENTERLINE	---
□	MONUMENT	■
⊙	IRON PIPE/ROD	●
⊙	DRILL HOLE	⊙
C1/L1	DEED CALL	
C1/L1	CURVE/LINE NO.	C1/L1
---	SOILS	---
---	ZONE LINE	---
---	ZONE LINE ON PL	---
	BENCHMARK	
▲	SURVEY CONTROL	
⊕	TP-1 TEST PIT	
⊙	MW-1 MONITORING WELL	
⊙	B-1 BORING	
	BUILDING	
---	DECK/STEPS/ OVERHANG	---
---	EDGE WETLAND	---
	WETLANDS	---
	UPLANDS	---
	STREAM	---
	LEDGE	---
---	EDGE PAVEMENT	---
---	PAVEMENT SAWCUT	---
---	EDGE CONCRETE	---
---	PAVEMENT PAINT	---
---	EDGE GRAVEL	---
---	CURB LINE	---
---	EDGE OF WATER	---
---	TREELINE	---
---120---118---	CONTOURS	---120---
X 120.00	SPOT GRADE	+120.00
○	CHAIN LINK FENCE	○
X	BARB WIRE FENCE	X
□	STOCKADE FENCE	□
---	GUARD RAIL	---
---	STONE WALL	---
---	RETAINING WALL	---
○	DECIDUOUS TREE	○ X
	CONIFEROUS TREE	○ X
---	MULCH LINE	---
○	BOLLARD	●
---	SIGN	---
---	RAILROAD	---
G	GAS	G
	GAS GATE VALVE	
	GAS METER	
G	GAS MANHOLE	G
W	WATER	W
	WATER GATE VALVE	
	WATER SHUT OFF	
	HYDRANT	
	WATER MANHOLE	
W	WELL	W
S	SANITARY SEWER	S
FM	FORCE MAIN	FM
S	SANITARY MANHOLE	○
SD	STORM DRAIN	SD
UD	UNDER DRAIN	UD
D	DRAINAGE MANHOLE	●
⊕	CATCH BASIN	⊕
OHU	OVERHEAD UTILITY	OHU
UGU	UNDERGROUND UTILITY	UGU
T	TRANSFORMER PAD	T
E	ELECTRICAL MANHOLE	E
M	ELECTRIC METER	
H	HVAC UNIT	
T	TELEPHONE MANHOLE	
★	LIGHT POLE	★ ● ■
○	UTILITY POLE	○
---	GUY WIRE	---
---	DRAINAGE DITCH	---
---	EROSION CONTROL BLANKET	
---	FILTER BARRIER	FB
	RIPRAP	
---	CHECK DAM	
---	INLET PROTECTION BOULDER	

THE RECORD OWNER OF THE PARCEL IS DELPHI HOLDINGS II, LLC BY DEED DATED MAY 16, 2003 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS (CYRD) IN BOOK 12906, PAGE 157 AND DELPHI HOLDINGS X, LLC BY DEED DATED NOVEMBER 21, 2017 AND RECORDED IN BOOK 17610, PAGE 517.

2. THE PROPERTY IS SHOWN AS LOT 16 ON THE TOWN OF WATERBORO TAX MAP 5 AND IS LOCATED IN THE VILLAGE DISTRICT.

3. SPACE AND BULK CRITERIA FOR THE VILLAGE (V) DISTRICT ARE AS FOLLOWS:

MINIMUM LOT SIZE:	20,000 S.F.
MINIMUM STREET FRONTAGE:	100 FEET
MINIMUM FRONT YARD:	25 FEET
MINIMUM SIDE YARD:	20 FEET
MINIMUM REAR YARD:	20 FEET
MAXIMUM BUILDING HEIGHT:	35 FEET

\*SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.

4. TOTAL AREA OF PARCEL IS APPROXIMATELY 11.04 ACRES.

5. BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON PLAN REFERENCE 6A. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNICS, INC. IN SEPTEMBER OF 2021 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION IN UNDEVELOPED AREAS FROM PLAN REFERENCE 6A.

6. PLAN REFERENCES:

A. "ALTA/ACSM LAND TITLE SURVEY, EXISTING CONDITIONS SURVEY MADE FOR ALLIANCE CONSTRUCTION" DATED SEPTEMBER 24, 2002 BY TITCOMB SURVEY.

7. PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-ND083. ELEVATIONS DEPICTED HEREON ARE NAVD83, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.

8. BENCHMARK:

BM-1 HORIZONTAL SPIKE IN TRIPLE 14" OAK	ELEVATION: 302.33 (NAVD83)
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9. UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASSE) STANDARD C155-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.

10. THE LOCUS PROPERTY AS DEPICTED HEREON PARTIALLY FALLS WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR WATERBORO, MAINE, YORK COUNTY, COMMUNITY PANEL NUMBER 230198-0020-C, HAVING AN EFFECTIVE DATE OF FEBRUARY 1, 1985. THE LOCUS PARTIALLY FALLS WITHIN AN AREA IDENTIFIED AS ZONE A, AREAS OF 100-YEAR FLOOD, BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.

11. A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN AUGUST OF 2021 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNICS, INC. AND LOCATED BY GROUND SURVEY. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. WETLAND FLAGS WERE LOCATED BY SUB METER GPS.

12. SEE EASEMENT GRANTED TO THE WATERBORO WATER DISTRICT IN DEED BOOK 14380, PAGE 810 AND BOOK 16339, PAGE 292.

13. IN THE DEED TO DELPHI HOLDINGS X, LLC, THERE IS A SCRIVENERS ERROR AND THE COURSE OF N 23°16'03" W, 25.00 FEET WAS OMITTED.

14. ALL WORK SHALL CONFORM TO THE APPLICABLE CODES AND ORDINANCES.

15. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIM OR HERSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIM OR HERSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.

16. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND IN THE FIELD.

17. PROVIDE ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND OWNER'S REQUIREMENTS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.

18. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE ENGINEER.

19. CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMENT DEPOSITED ON PUBLIC STREETS, SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO CONSTRUCTION.

20. CONTRACTOR SHALL INCORPORATE PROVISIONS AS NECESSARY IN CONSTRUCTION TO PROTECT EXISTING STRUCTURES, PHYSICAL FEATURES, AND MAINTAIN SITE STABILITY DURING CONSTRUCTION. CONTRACTOR SHALL RESTORE ALL AREAS TO ORIGINAL CONDITION AND AS DIRECTED BY DESIGN DRAWINGS.

21. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.

22. THE CONTRACTOR IS HEREBY CAUTIONED THAT ALL SITE FEATURES SHOWN HEREON ARE BASED ON FIELD OBSERVATIONS BY THE SURVEYOR AND BY INFORMATION PROVIDED BY UTILITY COMPANIES. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE (811) AT LEAST THREE (3) BUT NOT MORE THAN THIRTY (30) DAYS PRIOR TO COMMENCEMENT OF EXCAVATION OR DEMOLITION TO VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES.

23. CONTRACTOR SHALL BE AWARE THAT DIG SAFE ONLY NOTIFIES ITS "MEMBER" UTILITIES ABOUT THE DIG. WHEN NOTIFIED, DIG SAFE WILL ADVISE CONTRACTOR OF MEMBER UTILITIES IN THE AREA. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND CONTACTING NON-MEMBER UTILITIES DIRECTLY. NON-MEMBER UTILITIES MAY INCLUDE TOWN OR CITY WATER AND SEWER DISTRICTS AND SMALL LOCAL UTILITIES, AS WELL AS US PUBLIC WORKS SYSTEMS.

24. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRS-A 3360-A. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE APPROPRIATE UTILITIES TO OBTAIN AUTHORIZATION PRIOR TO RELOCATION OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THESE PLANS. IF A UTILITY CONFLICT ARISES, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER, THE MUNICIPALITY AND APPROPRIATE UTILITY COMPANY PRIOR TO PROCEEDING WITH ANY RELOCATION.

25. ALL PAVEMENT MARKINGS AND DIRECTIONAL SIGNAGE SHOWN ON THE PLAN SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS.

26. ALL PAVEMENT JOINTS SHALL BE SAWCUT PRIOR TO PAVING TO PROVIDE A DURABLE AND UNIFORM JOINT.

27. NO HOLES, TRENCHES OR STRUCTURES SHALL BE LEFT OPEN OVERNIGHT IN ANY EXCAVATION ACCESSIBLE TO THE PUBLIC OR IN PUBLIC RIGHTS-OF-WAY.

28. IMMEDIATELY UPON COMPLETION OF CUTS/FILLS, THE CONTRACTOR SHALL STABILIZE DISTURBED AREAS IN ACCORDANCE WITH EROSION CONTROL NOTES AND AS SPECIFIED ON PLANS.

29. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR THE REMOVAL, REPLACEMENT AND RECTIFICATION OF ALL DAMAGED AND DEFECTIVE MATERIAL AND WORKMANSHIP IN CONNECTION WITH THE CONTRACT WORK. THE CONTRACTOR SHALL REPLACE OR REPAIR AS DIRECTED BY THE OWNER ALL SUCH DAMAGED OR DEFECTIVE MATERIALS WHICH APPEAR WITHIN A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION.

30. WHERE THE TERMS "APPROVED EQUAL", "OTHER APPROVED", "EQUAL TO", "ACCEPTABLE" OR OTHER GENERAL QUALIFYING TERMS ARE USED IN THESE NOTES, IT SHALL BE UNDERSTOOD THAT REFERENCE IS MADE TO THE RULING AND JUDGEMENT OF SEBAGO TECHNICS, INC.

31. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR THE WORK UNTIL TURNED OVER TO THE OWNER.

32. THE CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.

33. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.

34. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. ANY MODIFICATION TO SUIT FIELD DIMENSION AND CONDITION SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY WORK.

35. BEFORE THE FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL REMOVE ALL EQUIPMENT AND MATERIALS. REPAIR OR REPLACE PRIVATE OR PUBLIC PROPERTY WHICH MAY HAVE BEEN DAMAGED OR DESTROYED DURING CONSTRUCTION. CLEAN THE AREAS WITHIN AND ADJACENT TO THE PROJECT WHICH HAVE BEEN OBSTRUCTED BY HIS/HER OPERATIONS, AND LEAVE THE PROJECT AREA NEAT AND PRESENTABLE.

1. PROTECT EXISTING BOUNDARY LINE MONUMENTATION. IF DISTURBED, EXISTING MONUMENTATION TO BE RESET BY A PROFESSIONAL LAND SURVEYOR.
2. DEMOLITION OF UTILITIES REQUIRING TREE REMOVAL SHALL BE COORDINATED WITH THE OWNER AND IN ACCORDANCE WITH PROJECT PLANS.
3. UTILITY DEMOLITION SHALL BE COMPLETED IN COORDINATION WITH NEW INFRASTRUCTURE. CONTRACTOR SHALL ENSURE EXISTING SURFACE DRAINAGE IS MAINTAINED DURING CONSTRUCTION.
4. EXISTING SEWER AND STORM DRAINAGE INFRASTRUCTURE TO REMAIN ACTIVE DURING CONSTRUCTION AND UPON COMPLETION OF PROJECT. DEMOLITION/CONSTRUCTION ACTIVITIES SHALL NOT INTERFERE OR IMPEDE EXISTING FLOWS. CONTRACTOR SHALL PROVIDE BYPASS PUMPING REQUIRED DURING SEWER AND STORM DEMOLITION AND NEW CONSTRUCTION. DAMAGE TO EXISTING SEWER INFRASTRUCTURE SHALL BE REPAIRED BY CONTRACTOR AT THEIR EXPENSE.
5. DEMOLITION SHOWN IS FOR MAJOR SITE ELEMENTS TO BE DEMOLISHED. OTHER MINOR DEMOLITION MAY BE REQUIRED AS PART OF CONSTRUCTION AND SHALL BE CONSIDERED INCIDENTAL TO THE COST OF CONSTRUCTION. COORDINATE ALL DEMOLITION WORK WITH SITE AND BUILDING DRAWINGS.
6. PRIOR TO ANY DEMOLITION, THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF DEMOLITION PLANS TO THE OWNER. THIS PLAN SHALL DEPICT LOCATIONS OF PROPOSED TERMINATIONS AND ANY TEMPORARY SERVICES THAT WILL BE NEEDED.
7. CONTRACTOR REQUIRED TO CONFIRM/MAINTAIN BENCHMARKS. IF IMPACTED CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION/RELOCATION AND COORDINATION WITH PROJECT TEAM.

1. SIDESLOPES SHALL NOT BE STEEPER THAN 3:1 (H:V) EXCEPT AS OTHERWISE IDENTIFIED ON THIS PLAN. ALL SIDESLOPES STEEPER THAN 3:1 (H:V) SHALL BE LINED WITH EROSION CONTROL BLANKET, OR ADDITIONAL MEASURES AS INDICATED.
2. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE EROSION CONTROL BEST MANAGEMENT PRACTICES MANUAL PUBLISHED BY BUREAU OF LAND AND WATER QUALITY MANAGEMENT DEPARTMENT OF ENVIRONMENTAL PROTECTION, OR LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
3. ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL.
4. SEE UTILITY PLAN FOR PIPE AND STRUCTURE DATA TABLES.

1. PROVIDE EROSION CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
2. GRADING AND CLEARING LIMITS SHALL NOT ENCROACH ON ADJACENT PROPERTIES UNLESS NOTED OTHERWISE ON THE PLANS.
3. OPEN AREAS SHALL BE LIMITED TO AREAS BEING WORKED IN. THE AREA STRIPPED OF EXISTING VEGETATION AT ANY GIVEN TIME SHALL BE MINIMIZED AND BE PHASED WHERE PRACTICAL SO THAT AREAS ARE REVEALED AND PERMANENTLY STABILIZED BEFORE ADDITIONAL AREAS ARE STRIPPED OF EXISTING VEGETATION. CONSTRUCTION BY USE OF GRAP, SEED, MULCH, OR OTHER GROUND COVER WITHIN ONE WEEK FROM THE TIME IT WAS ACTIVELY WORKED.

1. ALL GRAVITY CONDUIT PIPES SHALL BE INSTALLED USING A PIPE LASER AND TARGET SYSTEM THROUGH THE PIPE. ON PIPE RUNS 50 FEET OR LESS, THE CONTRACTOR SHALL REQUEST ENGINEER'S APPROVAL TO NOT USE A GROUND LASER.
2. MAINTAIN MINIMUM 5'-6" OF COVER ABOVE TOP OF WATER SERVICE PIPE.
3. MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES. MAINTAIN MINIMUM 18 INCHES VERTICAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES.
4. LOWER OR RAISE WATER SERVICES AS REQUIRED TO MAINTAIN MINIMUM 12 INCH VERTICAL SEPARATION FROM OTHER UTILITIES. WATER SERVICES CROSSING SEWERS SHALL BE PROVIDED INCH MINIMUM SEPARATION BETWEEN THE BOTTOM OF WATER LINE AND TOP OF SEWER UNLESS NOTED OTHERWISE ON THE PLANS.
5. PIPE:
  - SMOOTH PIPE SHALL BE ADS 35 PVC OR APPROVED EQUAL.
  - STORMDRAIN PIPE SHALL BE ADS N-12 DUAL WALL HOPE PIPE WITH SMOOTH-WALLED INTERIOR OR APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE UTILITY PLANS.
  - WATER PIPE AND FITTINGS SHALL CONFORM TO WATERBORO WATER DISTRICT WATER PIPE SPECIFICATIONS. MAIN WATER SERVICE PIPE SHALL BE DUCTILE IRON CLASS 52 PUSH-ON PIPE MEETING THE REQUIREMENTS OF AWWA/A181 C114/21.1 (LATEST REVISION) PIPE SHALL BE CEMENT-LINED AWWA/A181 C104/21.1 WITH LINING THICKNESS SPECIFIED, AND COATED TWICE WITH A BITUMINOUS SEAL COATING. PROVIDE THRUST BLOCKS AT ALL WATER SERVICE BENDS.
6. COORDINATE FOUNDATION UNDERDRAIN LOCATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
7. WATER SERVICE ENTRANCE DESIGNS TO INCLUDE METERS AND BACKFLOW PREVENTERS TO MEET ALL STANDARDS AND REQUIREMENTS OF THE WATERBORO WATER DISTRICT.
8. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY GRADE CHANGES THAT WILL IMPACT STORM DRAINAGE INFRASTRUCTURE OR OTHER UTILITIES.
9. UTILITIES WITHIN 5 FEET FROM FACE OF BUILDING ARE COORDINATED ON RELEVANT M.E.P. DRAWINGS. CONTRACTOR SHALL COORDINATE INVERTS, CONNECTIONS AND MATERIALS WITH ALL DRAWINGS.
10. CONTRACTOR SHALL FURNISH AND INSTALL TRENCHING, MATERIALS AND BACKFILL FOR ALL UTILITIES. ELECTRICAL AND TELECOM/DATA PROVIDERS WILL PUT PRIMARY SERVICE TO TRANSFORMER AND PANEL. CONTRACTOR RESPONSIBLE FOR TIMING AND COORDINATION WITH UTILITIES AND DRAWINGS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CONDUIT SCHEDULE TYPE AND SIZES.
11. UTILITY CONTACTS:
  - ELECTRIC:
    - CENTRAL MAINE POWER (CMP)
    - JAMIE COUGH, ENERGY SERVICES SPECIALIST
    - (207) 629-1489
  - WATER:
    - WATERBORO WATER DISTRICT
    - JOHN VACARI, SUPERINTENDENT
    - (207) 651-8733

1. PLANT QUANTITIES SHOWN ON PLANT LISTS ARE FOR CONVENIENCE TO THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PLANT MATERIAL INSTALLATION AS SHOWN ON PLANS.
2. SIZE AND GRADING STANDARDS OF PLANT MATERIALS SHALL CONFORM TO THE LATEST EDITION OF "U.S.A. STANDARD FOR NURSERY STOCK," BY THE AMERICAN ASSOCIATION OF NURSEYMEN INC.
3. ALL PLANT MATERIAL SHALL BE FREE FROM INSECTS AND DISEASE.
4. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH ACCEPTABLE HORTICULTURAL PRACTICES. THIS IS TO INCLUDE PROPER PLANTING MIX, PLANT BED AND TREE PIT PREPARATION, PRUNING, STAKING OR GUYING, WRAPPING, SPRAYING, FERTILIZATION, PLANTING AND ADEQUATE MAINTENANCE UNTIL ACCEPTANCE BY THE OWNER.
5. PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR BY THE CONTRACTOR AND A PERIOD OF TWO YEARS THEREAFTER BY THE OWNER FROM DATE OF INSTALLATION. DURING THE ONE YEAR GUARANTEE PERIOD, DEAD PLANT MATERIAL SHALL BE REPLACED AT NO COST TO THE OWNER. AT THE END OF THE ONE YEAR PERIOD, THE CONTRACTOR SHALL OBTAIN FINAL ACCEPTANCE FROM THE OWNER.
6. ALL GRASS, OTHER VEGETATION AND DEBRIS SHALL BE REMOVED FROM ALL PLANTING AREAS PRIOR TO PLANTING.
7. EXISTING TREES TO BE PRESERVED WILL BE PROTECTED DURING CONSTRUCTION AND SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
8. THE LANDSCAPE CONTRACTOR IS ADVISED OF THE PRESENCE OF THE UNDERGROUND UTILITIES AND SHALL VERIFY THE EXISTENCE AND LOCATION OF SAME BEFORE COMMENCING AND DIGGING OPERATIONS. THE LANDSCAPE CONTRACTOR SHALL REPLACE OR REPAIR UTILITIES. PAVING, WALKS, CURBING, ETC. DAMAGED IN PERFORMANCE OF THIS JOB AT NO ADDITIONAL COST TO THE OWNER.
9. ALL SHRUB BEDS SHALL BE MULCHED WITH 3" CLEAN SHREDDED DARK BROWN BARK MULCH.
10. THE CONTRACTOR SHALL PROVIDE 4" LOAM FOR ALL AREAS TO BE SODDED OR SEEDED. PLANTING AREAS SHALL RECEIVE 12" ROLLED THICKNESS OF LOAM. THE LANDSCAPE CONTRACTOR SHALL COORDINATE SUBGRADE PREPARATION WITH THE GENERAL CONTRACTOR PRIOR TO PLACING LOAM.
11. ANY DEVIATION FROM THE LANDSCAPE PLAN, INCLUDING PLANT LOCATION, SELECTION, SIZE, QUANTITY OR CONDITION SHALL BE REVIEWED AND APPROVED BY THE OWNER AND LANDSCAPE ARCHITECT (AND MUNICIPAL AUTHORITY, IF APPLICABLE) PRIOR TO INSTALLATION ON SITE.
12. WHERE INDICATED ON PLAN, PLANTING SOIL MIXTURE FOR PERENNIAL AND ANNUAL FLOWER BED AREAS SHALL CONSIST OF FOUR PARTS TOPSOIL, TWO PARTS SPAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTATED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8 INCHES.
13. DURING CLEANING OF SITE AND PRIOR TO TREE AND SHRUB INSTALLATIONS, CONTRACTOR SHALL REMOVE INVASIVE PLANTS. AREAS WHERE INVASIVE PLANTS ARE REMOVED AND NO OTHER PLANTING IS PROPOSED, AREA SHALL BE SEEDED WITH NATIVE SEED MIX LISTED BELOW. IF CONTRACTOR IS UNCLEAR AS TO WHETHER A PLANT IS INVASIVE OR NOT, CONSULT THE LOCAL ARBORIST OR NURSERY EXPERT PRIOR TO REMOVAL.
14. TREES, SHRUBS AND GROUNDCOVERS SHALL BE IRRIGATED USING AN AUTOMATIC SUBSURFACE IRRIGATION SYSTEM CONNECTED TO IRRIGATION CONTROLLER WITHIN BUILDING UTILITY ROOM TO ALLOW MAINTENANCE ACCESS TO ADJUST.

AC	ACRE
AFGB	ABOVE FINISH GRADE
APPROX	APPROXIMATELY
BCC	BOTTOM OF CURB
BCC	BITUMINOUS CONCRETE CURB
BT	BITUMINOUS
BLDG	BUILDING
BW	BOTTOM OF WALL
CB	CATCH BASIN
CONC	CONCRETE
CONT	CONTINUOUS
DI	DUCTILE IRON
DIA	DIAMETER
DMH	DRAIN MANHOLE
E.W.	EACH WAY
ELEV	ELEVATION
FFE	FINISH FLOOR ELEVATION
FIN GR.	FINISH GRADE
FTG	FOOTING
HDPET	HIGH DENSITY POLYETHYLENE
HGTE	HEIGHT
HMA	HOT MIX ASPHALT
INV	INVERT
LF	LINEAR FEET
OC	ON CENTER
PVC	POLYVINYL CHLORIDE
R	RADIUS
R.O.F.	RIGHT OF WAY
S.F.	SQUARE FEET
SCH	SCHEDULE
SCVCS	SLOPPFORM CONCRETE SLOPED CURB
SCVCS	SLOPPFORM CONCRETE VERTICAL CURB
SD	STORM DRAIN
SGC	SLOPED GRANITE CURB
SMH	SEWER MANHOLE SPECS SPECIFICATIONS
SS	SANITARY SEWER
SSGC	SALVAGED SLOPED GRANITE CURB
SSVC	SALVAGED SLOPED VERTICAL GRANITE CURB
TC	TOP OF CURB
TW	TOP OF WALL
TYF	TYPICAL
VGC	VERTICAL GRANITE CURB
VIF	VERIFY IN FIELD

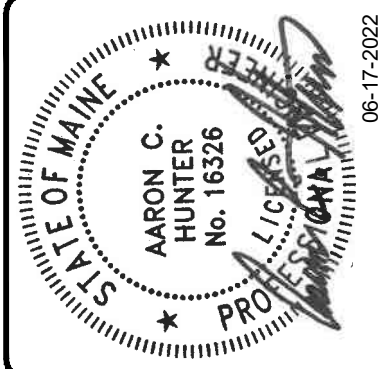
**GENERAL NOTES AND LEGEND**

**OF:**  
**WATERBORO CROSSING**  
**SOKOKIS TRAIL (ROUTE 5)**  
**WATERBORO, ME 04030**

**FOR:**  
**DELPHI HOLDINGS X, LLC**  
**476 ALFRED STREET**  
**BIDDEFORD, ME 04005**

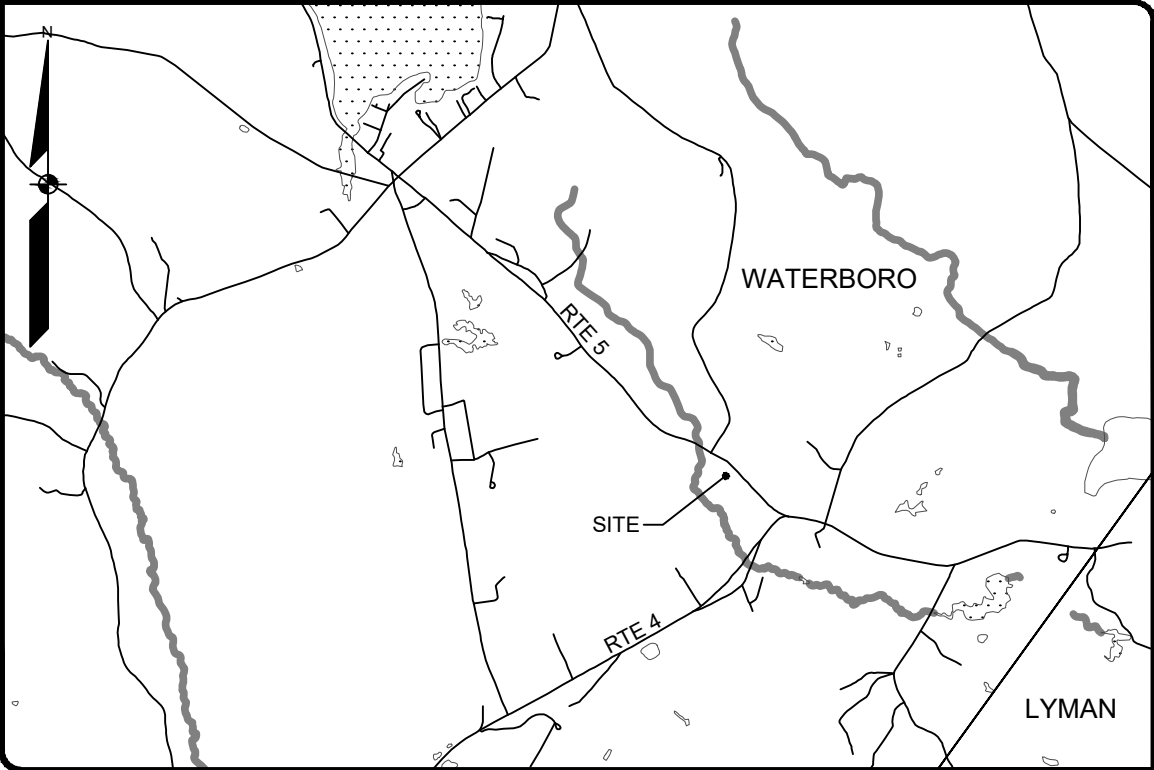
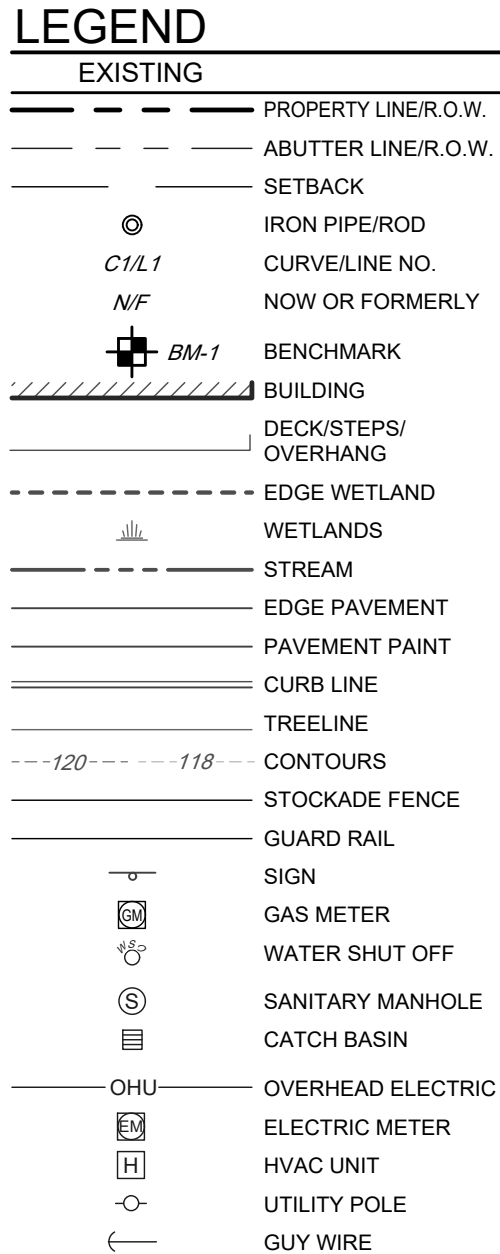
DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	NONE
PROJECT	16477

SHEET 2 OF 20

[illegible]



9. UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD C1A/CE 38-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTOR AND ENGINEERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
10. THE LOCUS PROPERTY AS DEPICTED HEREON PARTIALLY FALLS WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR WATERBORO, MAINE, YORK COUNTY, COMMUNITY-PANEL NUMBER 220198-0020-C, HAVING AN EFFECTIVE DATE OF FEBRUARY 1, 2019. LOCUS PROPERTY FALLS WITHIN AN AREA IDENTIFIED AS A, AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.
11. A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN AUGUST OF 2021 BY GARY M FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNICS, INC. AND LOCATED BY GROUND SURVEY. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND FORWARDED BY THE U.S. ARMY CORPS OF ENGINEERS. WETLAND FLAGS WERE LOCATED BY SUB METERS GPS.
12. SEE EASEMENT GRANTED TO THE WATERBORO WETLAND DISTRICT IN DEED MAP 14380, PAGE 810 AND MAP 16339, PAGE 292.
13. IN THE DEED TO DELPHI HOLDINGS X, LLC, THERE IS A SCRIBENERS ERROR AND THE CORRECT OF N 23°18'02" W, 25.00 FEET WAS OMITTED.



## LOCATION MAP

LYMAN

	B	JIB	04-29-2022	CHANGED TITLE BLOCK CLIENT, ADDED INVERT
	A	JIB	11-03-2021	ISSUED TO CLIENT
	REV:	BY:	DATE:	STATUS:
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS AUTHORIZED OR OTHERWISE SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.				

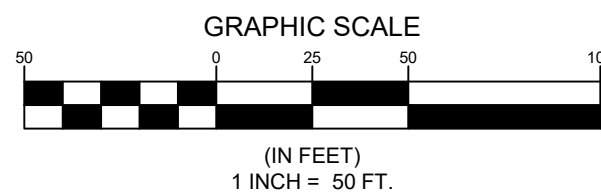
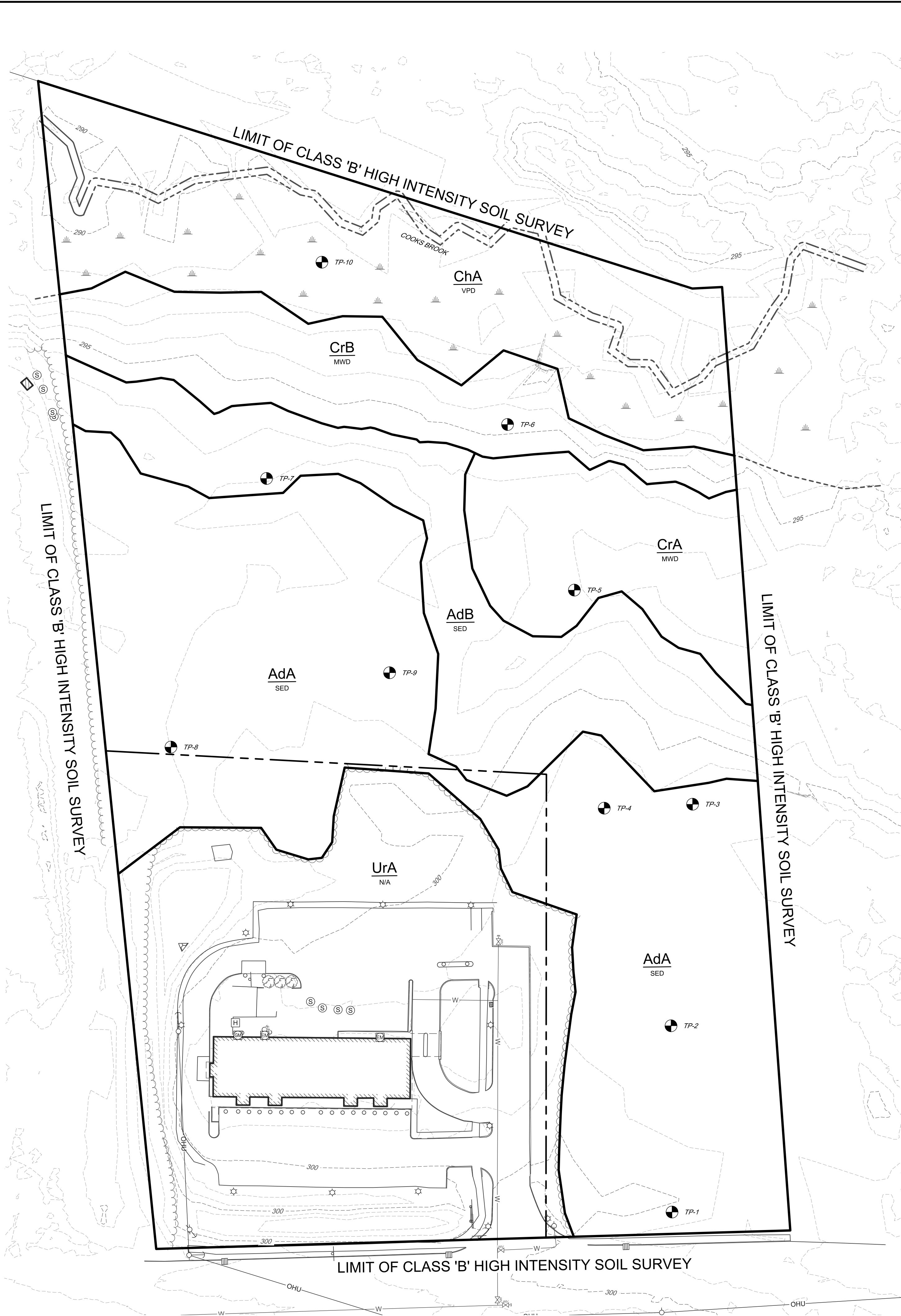
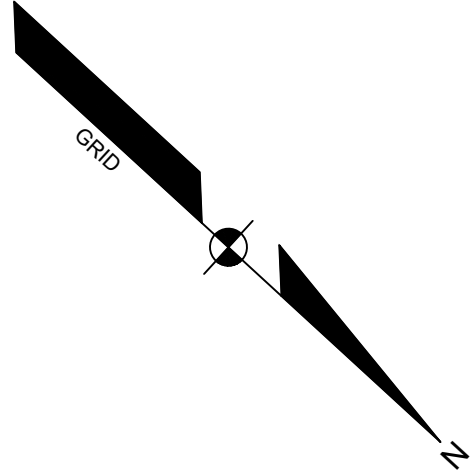
**SEBAGO**  
TECHNICS

[WWW.SEAGOTECHNICS.COM](http://WWW.SEAGOTECHNICS.COM)

75 John Roberts Rd.  
Suite 4A  
South Portland, ME 04106  
Tel. 207-200-2100

<b>EXISTING CONDITIONS PLAN</b> <b>OF:</b> <b>WATERBORO CROSSING</b> ROUTE 5 WATERBORO, ME		<b>FOR:</b> <b>DELPHI HOLDINGS X, LLC</b> 476 ALFRED STREET BIDDEFORD, ME 04005
DESIGNED	-	
DRAWN	TSL	
CHECKED	JIB	
DATE	09/28/2021	
SCALE	1" = 40'	
PROJECT	16477	

**SHEET 3 OF 20**



LEGEND

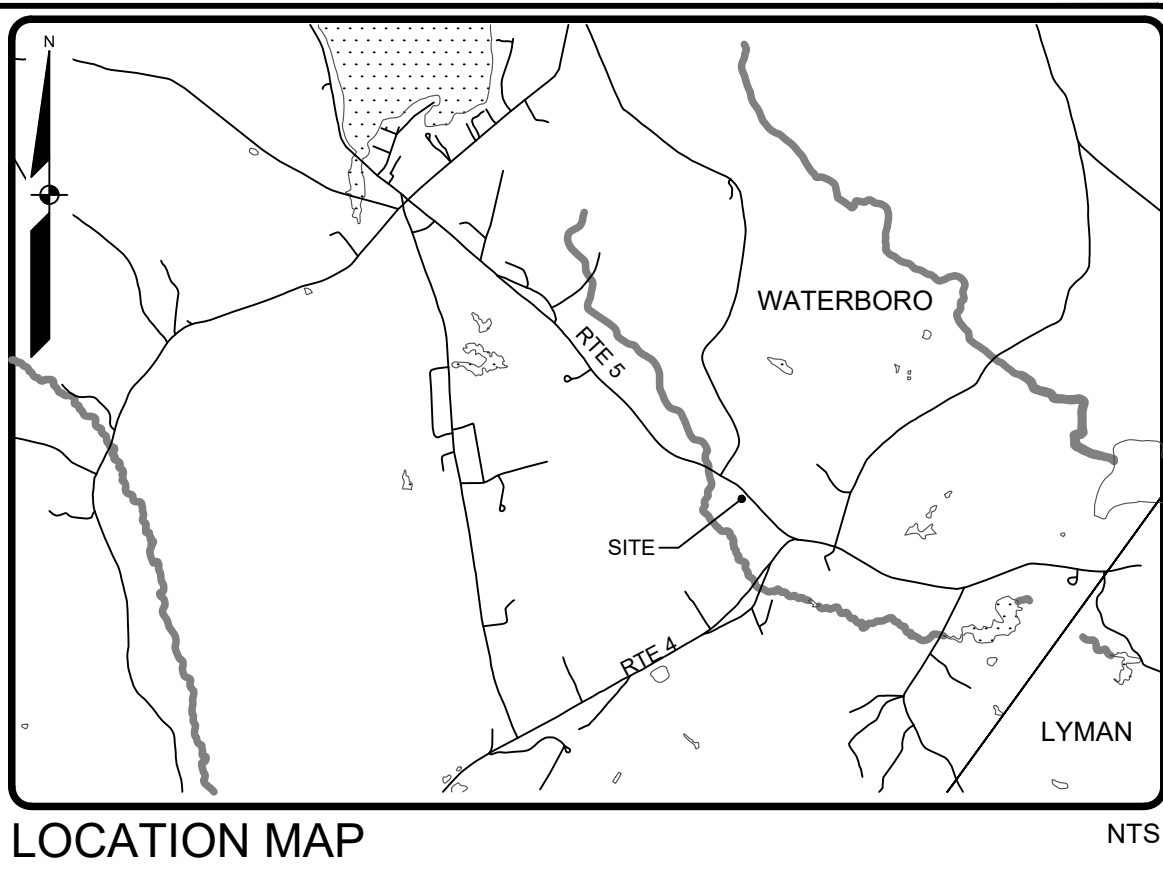
EXISTING	DESCRIPTION	PROPOSED
---	PROPERTY LINE/R.O.W.	---
---	ABUTTER LINE/R.O.W.	---
---	EASEMENT	---
SOIL MAP UNITS		
● TP-1	TEST PIT	
▬	BUILDING	
- - -	EDGE WETLAND	
▬	WETLANDS	
---	EDGE PAVEMENT	
---	EDGE GRAVEL	
~~~~~	TREELINE	
---120---118---	CONTOURS	
○ ○ ○ ○ ○	STONE WALL	
XXXXXX	LEDGE	

SOIL LEGEND

SYMBOL	SOIL SERIES	PHASE	SLOPE	HSG	DRAINAGE CLASS
AdA	ADAMS	SANDY LOAM	0-3%	A	SED (SOMEWHAT EXCESSIVELY DRAINED)
AdB	ADAMS	SANDY LOAM	3-8%	A	SED (SOMEWHAT EXCESSIVELY DRAINED)
ChA	CHOCORUA	MUCKY PEAT	0-3%	D	VPD (VERY POORLY DRAINED)
CrA	CROGHAN	SANDY LOAM	0-3%	A	MWD (MODERATELY WELL DRAINED)
CrB	CROGHAN	SANDY LOAM	3-8%	A	MWD (MODERATELY WELL DRAINED)
UrA	URBAN LAND	SANDY LOAM	0-3%	N/A	N/A

NOTE

THIS CLASS 'B' HIGH INTENSITY SOIL MAP CONFORMS TO THE GUIDELINES FOR MAINE CERTIFIED SOIL SCIENTISTS FOR SOIL IDENTIFICATION AND MAPPING, DATED MARCH 2009 FOR CLASS 'B' HIGH INTENSITY SOIL SURVEYS. THE SOIL MAP UNITS AS DEPICTED WERE IN PART INFLUENCED BY THE INTENDED USE FOR A PROPOSED COMMERCIAL DEVELOPMENT AND THE SOILS WHICH WERE NON-LIMITING FOR ONE USE MAY BE CONSIDERED LIMITING FOR ANOTHER USE. THEREFORE, THIS CLASS 'B' HIGH INTENSITY SOILS MAP MAY NOT BE ADEQUATE FOR ANOTHER USE. (REFER TO SOIL NARRATIVE REPORT DATED MARCH 18, 2022 AND SOIL PROFILE DESCRIPTIONS.)



ANNA K. BIDDLE  
LICENSED SOIL SCIENTIST #639

03/18/2022  
DATE

CLASS 'B' HIGH INTENSITY SOILS SURVEY

OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04087

FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

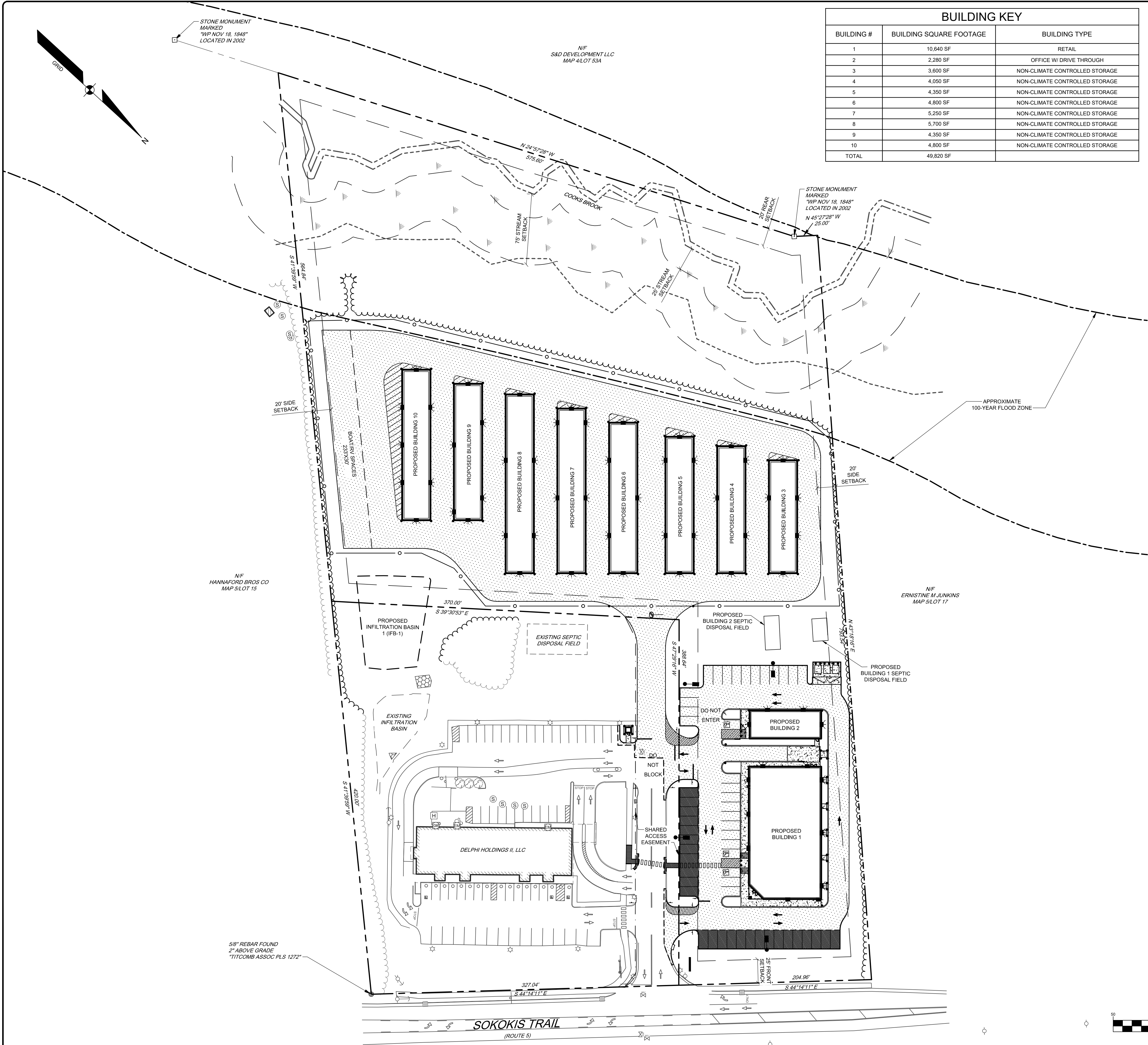
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DRAWN	DAB
CHECKED	CAB
DATE	02-16-2022
SCALE	1" = 50'
PROJECT	16477

SHEET 4 OF 20

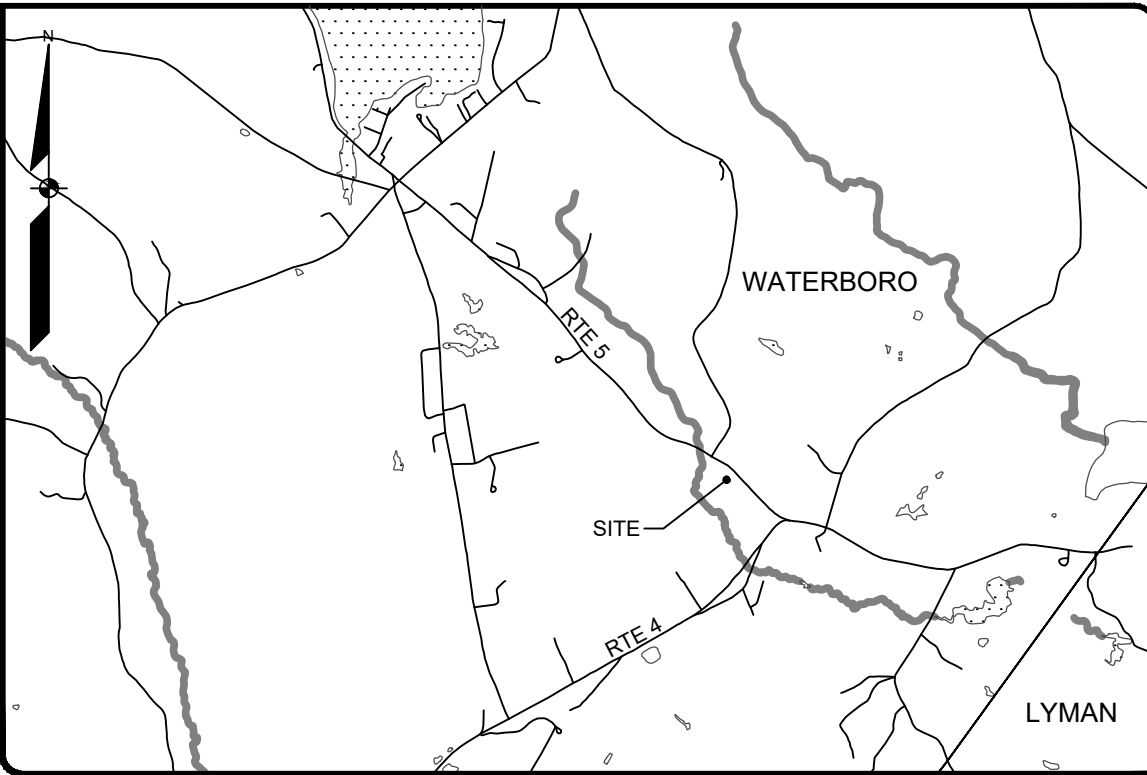
16477SL - Soil Survey.dwg TAB: SOIL SURVEY

WWW.SEBAGOTECHNICS.COM  
75 John Roberts Rd.  
Suite 4A  
South Portland, ME 04106  
Tel. 207-260-2100

AKB 03-18-2022 ISSUED FOR CLIENT REVIEW  
REV. BY: DATE: STATUS:  
A. AKB 03-18-2022  
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.



BUILDING KEY		
BUILDING #	BUILDING SQUARE FOOTAGE	BUILDING TYPE
1	10,640 SF	RETAIL
2	2,280 SF	OFFICE W/ DRIVE THROUGH
3	3,600 SF	NON-CLIMATE CONTROLLED STORAGE
4	4,050 SF	NON-CLIMATE CONTROLLED STORAGE
5	4,350 SF	NON-CLIMATE CONTROLLED STORAGE
6	4,800 SF	NON-CLIMATE CONTROLLED STORAGE
7	5,250 SF	NON-CLIMATE CONTROLLED STORAGE
8	5,700 SF	NON-CLIMATE CONTROLLED STORAGE
9	4,350 SF	NON-CLIMATE CONTROLLED STORAGE
10	4,800 SF	NON-CLIMATE CONTROLLED STORAGE
TOTAL	49,820 SF	



LOCATION MAP N.T.S.

GENERAL NOTES

- THE RECORD OWNER OF THE PARCEL IS DELPHI HOLDINGS II, LLC BY DEED DATED MAY 16, 2010 AND RECORDED AT THE YORK COUNTY REGISTRY OF DEEDS (YCRD) IN BOOK 12306, PAGE 157 AND DELPHI HOLDINGS X, LLC BY DEED DATED NOVEMBER 21, 2017 AND RECORDED IN BOOK 17610, PAGE 517.
- THE PROPERTY IS SHOWN AS LOT 16 ON THE TOWN OF WATERBORO TAX MAP 5 AND IS LOCATED IN THE VILLAGE DISTRICT.
- SPACE AND BULK CRITERIA FOR THE VILLAGE (V) DISTRICT ARE AS FOLLOWS:  
MINIMUM LOT SIZE: 20,000 S.F.  
MINIMUM STREET FRONTAGE: 100 FEET  
MINIMUM FRONT YARD: 25 FEET  
MINIMUM SIDE YARD: 20 FEET  
MINIMUM REAR YARD: 20 FEET  
MAXIMUM BUILDING HEIGHT: 35 FEET  
\*SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.
- TOTAL AREA OF PARCEL IS APPROXIMATELY 11.04 ACRES.
- BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON PLAN REFERENCE 6A. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNICS, INC. IN SEPTEMBER OF 2021 AND SUPPLEMENTED WITH ADDITIONAL INFORMATION IN UNDEVELOPED AREAS FROM PLAN REFERENCE 6A.
- PLAN REFERENCES:  
A. \*ALTA/ACSM LAND TITLE SURVEY, EXISTING CONDITIONS SURVEY MADE FOR ALLIANCE CONSTRUCTION\* DATED SEPTEMBER 24, 2002 BY TITCOMB SURVEY.
- PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NA083. ELEVATIONS DEPICTED HEREON ARE NAVD86, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.
- BENCHMARK:  
BM-1 HORIZONTAL SPIKE IN TRIPLE 14" OAK ELEVATION: 302.33 (NAVD86)
- UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD C106-02. UTILITIES DEPICTED HEREON MAY NOT NECESSARILY REPRESENT ALL EXISTING UTILITIES. CONTRACTORS AND/OR DESIGNERS NEED TO CONTACT DIG-SAFE SYSTEMS, INC. (1-888-DIG-SAFE) AND FIELD VERIFY EXISTING UTILITIES WITHIN THE PROJECT AREA PRIOR TO CONSTRUCTION AND/OR EXCAVATION.
- THE LOCUS PROPERTY AS DEPICTED HEREON PARTIALLY FALLS WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR WATERBORO, MAINE, YORK COUNTY, COMMUNITY-PANEL NUMBER 230198-0025-C, HAVING AN EFFECTIVE DATE OF FEBRUARY 1, 1985. THE LOCUS PARTIALLY FALLS WITHIN AN AREA IDENTIFIED AS ZONE A, AREAS OF 100-YEAR FLOOD; BASE FLOOD ELEVATIONS AND FLOOD HAZARD FACTORS NOT DETERMINED.
- A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN AUGUST OF 2021 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNICS, INC. AND LOCATED BY GROUND SURVEY. THIS DELINEATION CONFORMS TO THE STANDARDS AND METHODS OUTLINED IN THE 1987 WETLANDS DELINEATION MANUAL AND NORTHEAST REGIONAL SUPPLEMENT AUTHORED AND PUBLISHED BY THE U.S. ARMY CORPS OF ENGINEERS. WETLAND FLAGS WERE LOCATED BY SUB METER GPS.
- SEE EASEMENT GRANTED TO THE WATERBORO WATER DISTRICT IN DEED BOOK 14380, PAGE 810 AND BOOK 16339, PAGE 292.
- IN THE DEED TO DELPHI HOLDINGS X, LLC, THERE IS A SCRIVENERS ERROR AND THE COURSE OF N 23°18'03" W, 25.00 FEET WAS OMITTED.

PARKING SUMMARY

BUILDING TYPE	SQUARE FEET	#EMPLOYEES	PARKING SPACES
RETAIL SHOPS =	8,600	3	44
PROFESSIONAL OFFICES =	1,800	3	10
TOTAL REQUIRED PARKING SPACES =			54
TOTAL PROPOSED PARKING SPACES =			54

PARKING REQUIREMENTS ABOVE ARE BASED ON SECTION 5.03 OF THE TOWN OF WATERBORO ZONING ORDINANCE.

RETAIL SHOPS, 1 PARKING SPOT IS REQUIRED FOR EVERY 200 SQUARE FEET OF STORE AREA AND 1 PARKING SPOT IS REQUIRED FOR EVERY 3 EMPLOYEES.

PROFESSIONAL OFFICES, 1 PARKING SPOT IS REQUIRED FOR EVERY 200 SQUARE FEET OF NON-STORAGE FLOOR AREA AND 1 PARKING SPOT IS REQUIRED FOR EVERY 3 EMPLOYEES.

APPROVAL-  
TOWN OF WATERBORO  
PLANNING BOARD

DATE \_\_\_\_\_

CHAIRPERSON \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

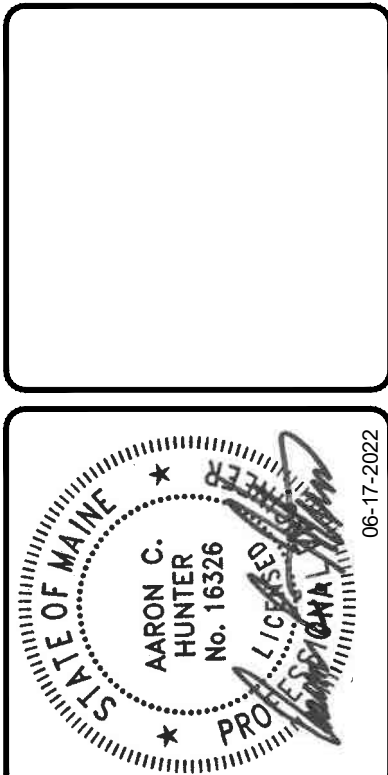
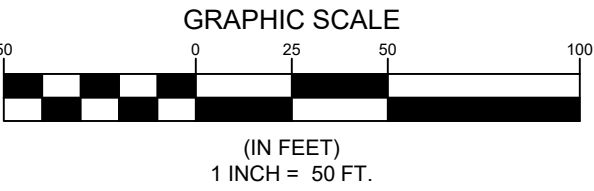
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REV	BY	DATE	STATUS
D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL
C	ACH	06-03-2022	MDEP SUBMITTAL
B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL
A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL

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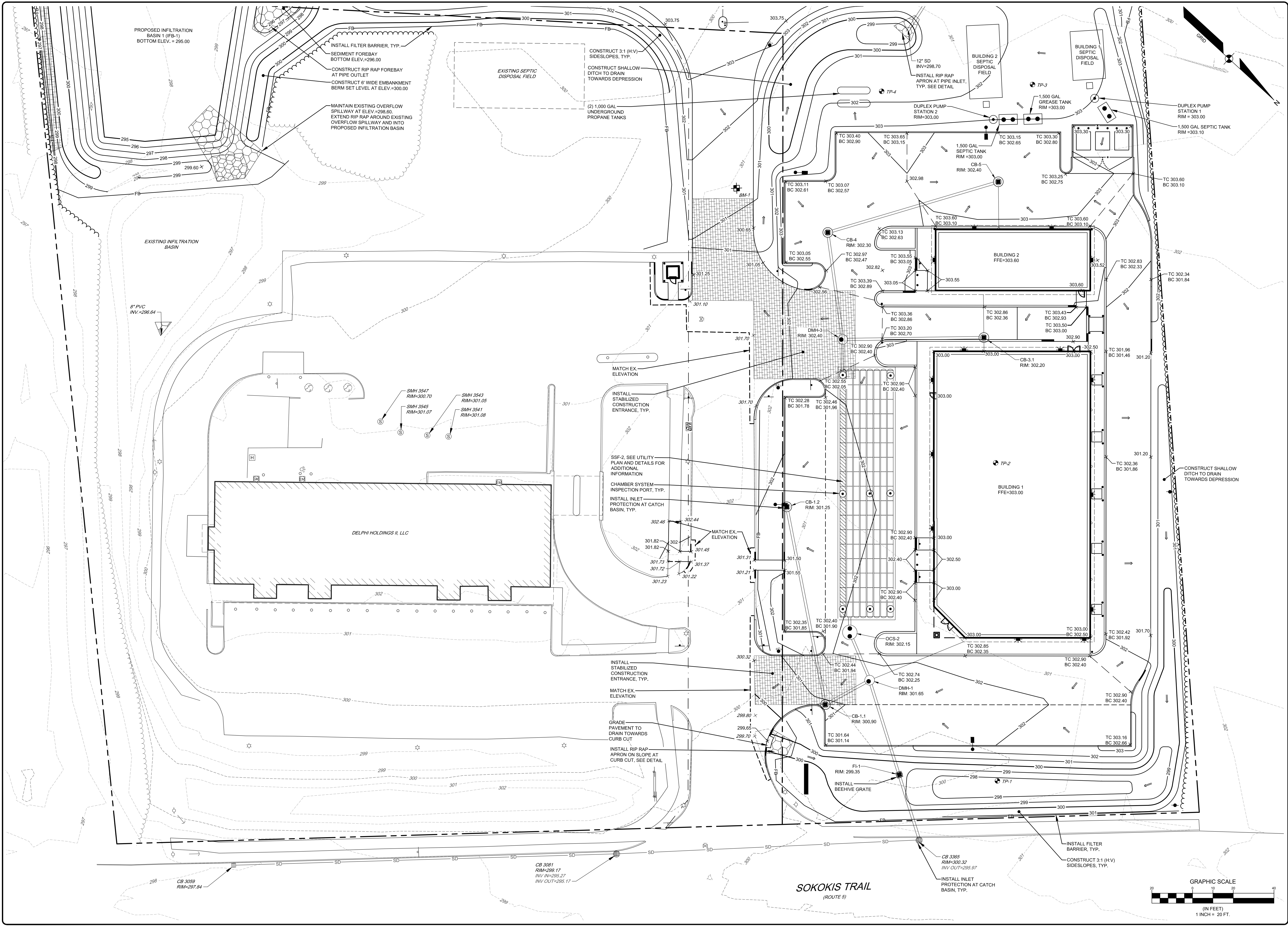
NOT FOR  
CONSTRUCTION

OVERALL SITE PLAN  
OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
478 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	1" = 50'
PROJECT	16477







AARON C. HUNTER PE # 16326

STATE OF MAINE

AARON C. HUNTER  
No. 16326  
Professional Engineer

06-17-2022

REV	BY	DATE	STATUS
D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL
C	ACH	06-03-2022	MDP SUBMITTAL
B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL
A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL

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**SEBAGO**  
TECHNICS  
www.sebagotechnics.com

75 John Roberts Rd.  
Suite 4A  
South Portland, ME 04106  
Tel. 207-200-2100

NOT FOR  
CONSTRUCTION

**GRADING PLAN 1**

OF:  
**WATERBORO CROSSING**  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030

FOR:  
**DELPHI HOLDINGS X, LLC**  
476 ALFRED STREET  
BIDDEFORD, ME 04005

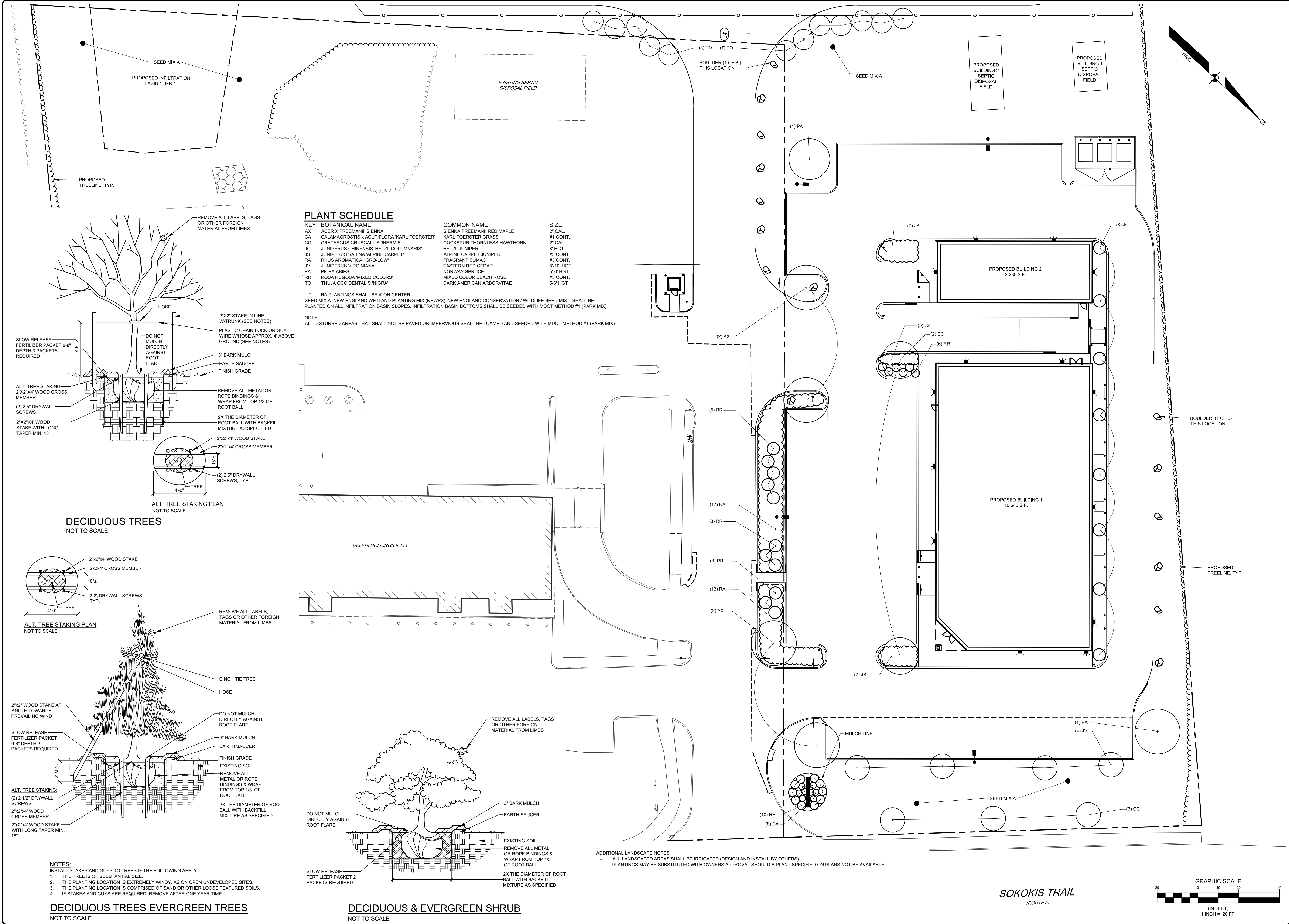
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DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	1" = 20'
PROJECT	16477

SHEET 8 OF 20







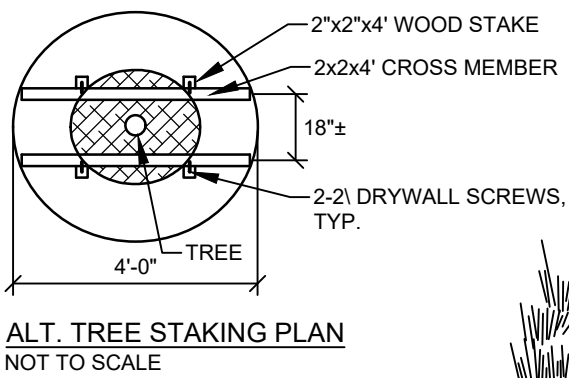


PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE
AX	ACER X FREEMANII 'SIENNA'	SIENNA FREEMANII RED MAPLE	2" CAL.
CA	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER GRASS	#1 CONT.
CC	CRATAEGUS CRUGALLIS 'INERMIS'	COCKSPUR THORNLESS HAWTHORN	2" CAL.
JC	JUNIPERUS CHINENSIS 'HETZLI COLUMNARIS'	HETZLI JUNIPER	8' HGT.
JS	JUNIPERUS SABINA 'ALPINE CARPET'	ALPINE CARPET JUNIPER	#3 CONT.
RA	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC	#3 CONT.
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8'-10' HGT.
PA	PICEA ABIES	NORWAY SPRUCE	5'-6' HGT.
RR	ROSA RUGOSA 'MIXED COLORS'	MIXED COLOR BEACH ROSE	#5 CONT.
TO	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	5'-6' HGT.

\* RA PLANTINGS SHALL BE 4' ON CENTER  
SEED MIX A: NEW ENGLAND WETLAND PLANTING MIX (NEWPS) NEW ENGLAND CONSERVATION / WILDLIFE SEED MIX. - SHALL BE PLANTED ON ALL INFILTRATION BASIN SLOPES. INFILTRATION BASIN BOTTOMS SHALL BE SEEDED WITH MDOT METHOD #1 (PARK MIX)  
NOTE:  
ALL DISTURBED AREAS THAT SHALL NOT BE PAVED OR IMPERVIOUS SHALL BE LOAMED AND SEEDED WITH MDOT METHOD #1 (PARK MIX)

DECIDUOUS TREES  
NOT TO SCALE



DECIDUOUS TREES EVERGREEN TREES  
NOT TO SCALE

DECIDUOUS & EVERGREEN SHRUB  
NOT TO SCALE

LANDSCAPE PLAN 1

OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030

FOR: DELPHI HOLDINGS X, LLC  
475 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED

DRAWN

CHECKED

DATE

SCALE

PROJECT

ACH

ACH

CAB

04-29-2022

1" = 20'

16477

SHEET 12 OF 20

LANDSCAPE ARCHITECT

HENRY A. HESS

4841

STATE OF MAINE

06-17-2022

SEBAGO

TECHNICS

WWW.SEBAGOTECHNICS.COM

75 John Roberts Rd.

Suite 4A

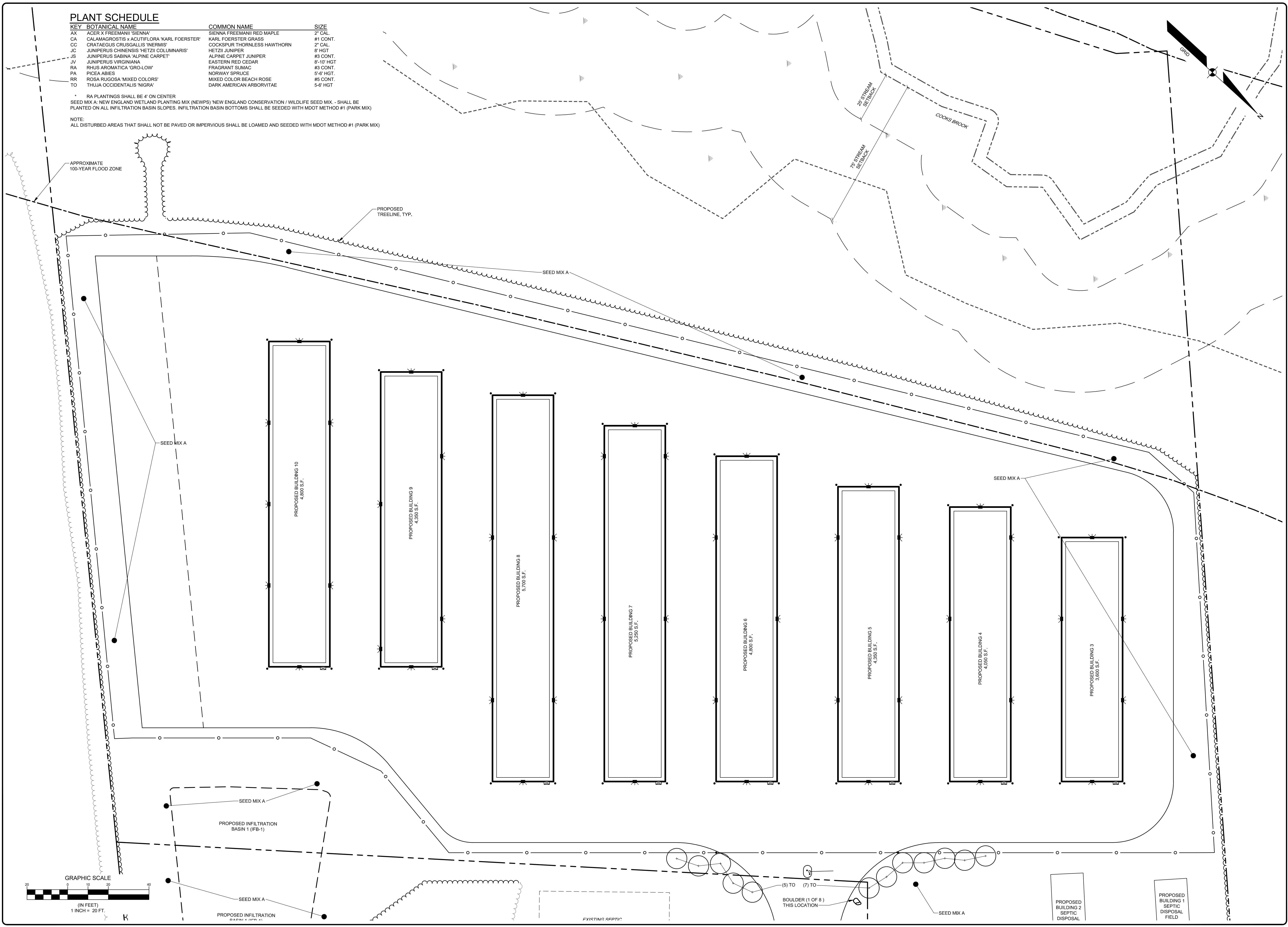
South Portland, ME 04106

Tel. 207-260-2100

NOT FOR CONSTRUCTION

KEY	BOTANICAL NAME	COMMON NAME	SIZE
AX	ACER X FREEMANNI 'SIENNA'	SIENNA FREEMANI RED MAPLE	7' HGT.
CC	CALAGROSTIS X ACUTIFLORA KARL FOERSTER	KARL FOERSTER GRASS	2' HGT.
CC	CRATAEGUS CRUGSALLI 'INERMIS'	COCKSPUR THORNSLESS HAWTHORN	8' HGT.
CC	JUNIPERUS CHINENSIS 'HETZLI COLUMNARIS'	HETZLI JUNIPER	8' HGT.
CC	JUNIPERUS SABINA 'ALPINE CARPET'	ALPINE CARPET JUNIPER	3' HGT.
JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	8'-10' HGT.
RA	RHUS AROMATICA 'GOLD-LOW'	FRAGRANT SUMAC	3' HGT.
RA	PICEA ABIES	NOBIS SPRUCE	5-6' HGT.
RO	ROSA RUGOSA 'MIXED COLORS'	MIXED COLOR BEECH ROSE	5' HGT.
TR	THUJA OCCIDENTALIS 'NIGRA'	DARK AMERICAN ARBORVITAE	5-6' HGT.

NOTE:  
ALL DISTURBED AREAS THAT SHALL NOT BE PAVED OR IMPERVIOUS SHALL BE LOAMED AND SEEDED WITH MDOT METHOD #1 (PARK MIX);



EROSION CONTROL MEASURES

PRE-CONSTRUCTION PHASE

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS (SILT FENCE) WILL BE STAKED/INSTALLED ACROSS THE SLOPE(S) ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. THE PLACEMENT OF SEDIMENT BARRIERS SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THIS EROSION CONTROL PLAN AND DETAILS IN THIS PLAN SET. THIS NETWORK IS TO BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER PERMANENT STABILIZATION IS ATTAINED.

PRIOR TO ANY CLEARING OR GRUBBING, A CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED AT THE INTERSECTION OF THE PROPOSED ENTRANCES AND EXISTING ROADWAY TO AVOID TRACKING OF MUD, DUST AND DEBRIS FROM THE SITE.

PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE A DETAILED SCHEDULE AND MARKED UP PLAN INDICATING AREAS AND COMPONENTS OF THE WORK AND KEY DATES SHOWING DATE OF DISTURBANCE AND COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING 3 DAYS PRIOR TO THE MUNICIPAL STAFF. THREE COPIES OF THE SCHEDULE AND MARKED UP PLAN SHALL BE PROVIDED TO THE MUNICIPALITY THREE DAYS PRIOR TO THE SCHEDULED PRE-CONSTRUCTION MEETING. SPECIAL ATTENTION SHALL BE GIVEN TO THE 14 DAY LIMIT OF DISTURBANCE IN THE SCHEDULE ADDRESSING TEMPORARY AND PERMANENT VEGETATION MEASURES.

CONSTRUCTION AND POST-CONSTRUCTION PHASE

AREAS UNDERGOING ACTUAL CONSTRUCTION SHALL ONLY EXPOSE THAT AMOUNT OF MINERAL SOIL NECESSARY FOR PROGRESSIVE AND EFFICIENT CONSTRUCTION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN 7 DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100' OF STREAMS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL WITHIN SEVEN (7) DAYS. REFER TO WINTER EROSION CONTROL NOTES FOR THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR. NO MORE THAN ONE (1) ACRE SHOULD BE ACTIVELY WORKED ON AT ONE TIME, AND NO LARGER AREA SHOULD BE DISTURBED THAN CAN BE MULCHED IN ONE (1) DAY.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

EROSION CONTROL APPLICATIONS & MEASURES

THE PLACEMENT OF EROSION CONTROL MEASURES SHALL BE COMPLETED IN ACCORDANCE WITH GUIDELINES ESTABLISHED IN BEST MANAGEMENT PRACTICES AND IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND DETAILS IN THE PLAN SET.

1. TEMPORARY MULCHING:

ALL DISTURBED AREAS SHALL BE MULCHED WITH MATERIALS SPECIFIED BELOW PRIOR TO ANY STORM EVENT. ALL DISTURBED AREAS NOT FINAL GRADED WITHIN 14 DAYS SHALL BE MULCHED. DISTURBED AREAS ADJACENT TO NATURAL RESOURCES THAT ARE NOT GRADED WITHIN SEVEN (7) DAYS SHALL BE MULCHED. ALSO, AREAS, WHICH HAVE BEEN TEMPORARILY OR PERMANENTLY SEEDED, SHALL BE MULCHED IMMEDIATELY FOLLOWING SEEDING. EROSION CONTROL BLANKETS ARE RECOMMENDED TO BE USED AT THE BASE OF GRASSED WATERWAYS AND ON SLOPES GREATER THAN 33%. MULCH ANCHORING SHOULD BE USED ON SLOPES GREATER THAN 5% AFTER SEPTEMBER 15TH OF THE CONSTRUCTION YEAR (SEE WINTER EROSION CONTROL NOTES).

HAY OR STRAW: SHALL BE APPLIED AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE).

EROSION CONTROL MIX: SHALL BE PLACED EVENLY AND MUST PROVIDE 100% SOIL COVERAGE. EROSION CONTROL MIX SHALL BE APPLIED SUCH THAT THE THICKNESS ON SLOPES 3:1 OR LESS IS 2 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THE THICKNESS ON SLOPES BETWEEN 3:1 AND 2:1 SHALL BE 4 INCHES PLUS 1/2 INCH PER 20 FEET OF SLOPE UP TO 100 FEET. THIS SHALL NOT BE USED ON SLOPES GREATER THAN 2:1.

EROSION CONTROL BLANKET: SHALL BE INSTALLED SUCH THAT CONTINUOUS CONTACT BETWEEN THE MAT AND THE SOIL IS OBTAINED. INSTALL BLANKETS AND STAPLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

2. SOIL STOCKPILES:

STOCKPILES OF SOIL, OR SUBSOIL, SHALL BE MULCHED WITH HAY OR STRAW AT A RATE OF 75 LBS/1,000 S.F. (1.5 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED PRIOR TO ANY RAINFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL RESOURCES. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADEMENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILE.

3. NATURAL RESOURCES PROTECTION:

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 90% MATURE VEGETATION CATCH, SHALL BE MULCHED USING TEMPORARY MULCHING (AS DESCRIBED IN PART 1. OF THIS SECTION) WITHIN 7 DAYS OF EXPOSURE OR PRIOR TO ANY STORM EVENT. SEDIMENT BARRIERS (AS DESCRIBED IN PART 4. OF THIS SECTION) SHALL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA. PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE.

4. SEDIMENT BARRIERS:

PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, SEDIMENT BARRIERS SHALL BE STAKED ACROSS THE SLOPE(S) ON THE CONTOUR AT OR JUST BELOW THE LIMITS OF CLEARING OR GRUBBING, AND/OR JUST ABOVE ANY ADJACENT PROPERTY LINE OR WATERCOURSE TO PROTECT AGAINST CONSTRUCTION RELATED EROSION. SEDIMENT BARRIERS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL ALL EXPOSED SLOPES HAVE AT LEAST 90% VIGOROUS PERENNIAL VEGETATIVE COVER TO PREVENT EROSION.

SILT FENCE: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE EFFECTIVE HEIGHT OF THE FENCE SHALL NOT EXCEED 36 INCHES. IT IS RECOMMENDED THAT SILT FENCE BE REMOVED BY CUTTING THE FENCE MATERIALS AT GROUND LEVEL SO AS TO AVOID ADDITIONAL SOIL DISTURBANCE.

HAY BALES: SHALL NOT BE INSTALLED ADJACENT TO WETLAND. INSTALL PER THE DETAIL ON THE PLANS. BALES SHALL BE WIRE-BOUND OR STRING-TIED AND THESE BINDINGS MUST REMAIN PARALLEL WITH THE GROUND SURFACE DURING INSTALLATION TO PREVENT DETERIORATION OF THE BINDINGS. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER.

EROSION CONTROL MIX: SHALL NOT BE USED ADJACENT TO WETLANDS. INSTALL PER THE DETAIL ON THE PLANS. THE MIX SHALL CONSIST PRIMARILY OF ORGANIC MATERIAL AND CONTAIN A MILD-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4 INCHES IN DIAMETER. THE MIX COMPOSITION SHALL MEET THE STANDARDS DESCRIBED WITHIN THE MDEP BEST MANAGEMENT PRACTICES. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER. EROSION CONTROL MIX BERMS SHALL NOT BE USED AT THE TOP OF STEEP SLOPES (>8%) OR SLOPES WITH FLOWING WATER.

CONTINUOUS CONTAINED BERM: SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THIS SEDIMENT BARRIER IS EROSION CONTROL MIX PLACED WITHIN A SYNTHETIC TUBULAR NETTING AND PERFORMS AS A STURDY SEDIMENT BARRIER THAT WORKS WELL ON HARD GROUND SUCH AS FROZEN CONDITIONS, TRAVELED AREAS OR PAVEMENT. NO TRENCHING IS REQUIRED FOR INSTALLATION OF THIS BARRIER.

5. TEMPORARY CHECK DAMS:

SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. CHECK DAMS ARE TO BE PLACED WITHIN DITCHES/ SWALES AS SPECIFIED ON THE DESIGN PLANS IMMEDIATELY AFTER FINAL GRADING. CHECK DAMS SHALL BE 2 FEET HIGH. TEMPORARY CHECK DAMS MAY BE REMOVED ONLY AFTER THE ROADWAYS ARE PAVED AND THE VEGETATED SWALES ARE ESTABLISHED WITH AT LEAST 90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY AFTER REMOVAL OF THE CHECK DAM.

STONE CHECK DAMS: STONE DAMS SHOULD BE CONSTRUCTED OF 2 TO 3 INCH STONE AND PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAT THE OUTER EDGES.

HAY BALE CHECK DAMS: BALES SHALL BE WIRE-BOUND OR STRING-TIED. BALES SHALL BE INSTALLED WITHIN A MINIMUM 4 INCH DEEP TRENCH LINE WITH ENDS OF ADJACENT BALES TIGHTLY ABUTTING ONE ANOTHER. HAY BALES SHALL BE PLACED SUCH THAT COMPLETE COVERAGE OF THE SWALE IS OBTAINED AND THAT THE CENTER OF THE DAM IS 6 INCHES LOWER THAT THE OUTER EDGES.

MANUFACTURED CHECK DAMS: MANUFACTURED CHECK DAMS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF AUTHORIZED BY THE PROPER LOCAL, STATE OR FEDERAL REGULATING AGENCIES. THESE UNITS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

6. STORMDRAIN INLET PROTECTION:

INLET PROTECTION SHALL BE PLACED AROUND A STORMDRAIN DROP INLET OR CURB INLET PRIOR TO PERMANENT STABILIZATION OF THE IMMEDIATE AND UPSTREAM DISTURBED AREAS. THEY SHALL BE CONSTRUCTED IN A MANNER THAT WILL FACILITATE CLEAN-OUT AND DISPOSAL OF TRAPPED SEDIMENTS AND MINIMIZE INTERFERENCE WITH CONSTRUCTION ACTIVITIES. ANY RESULTANT PONDING OF WATER FROM THE PROTECTION METHOD MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.

HAY BALE DROP INLET PROTECTION: WE DO NOT RECOMMEND THE USE OF HAY BALES AS INLET PROTECTION.

CONCRETE BLOCK AND STONE INLET SEDIMENT FILTER (DROP OR CURB INLET): SHALL BE INSTALLED PER THE DETAIL ON THE PLANS. THE HEIGHT OF THE CONCRETE BLOCK BARRIER CAN VARY BUT MUST BE BETWEEN 12 AND 24 INCHES TALL. A MINIMUM OF 1 INCH CRUSHED STONE SHALL BE USED.

MANUFACTURED SEDIMENT BARRIERS AND FILTER (DROP OR CURB INLET): MANUFACTURED FILTERS, AS SPECIFIED IN THE DETAIL ON THE PLANS, MAY BE USED IF INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

7. STABILIZED CONSTRUCTION ENTRANCE/EXIT:

PRIOR TO CLEARING AND/OR GRUBBING THE SITE A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE CONSTRUCTED WHEREVER TRAFFIC WILL EXIT THE CONSTRUCTION SITE ONTO A PAVED ROADWAY IN ORDER TO MINIMIZE THE TRACKING OF SEDIMENT AND DEBRIS FROM THE CONSTRUCTION SITE ONTO PUBLIC ROADWAYS. THE ENTRANCES AND ADJACENT ROADWAY AREAS SHALL BE PERIODICALLY SWEPT OR WASHED TO MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. STABILIZED CONSTRUCTION EXITS SHALL BE CONSTRUCTED IN AREAS SPECIFIED ON THE PLANS AND AS DETAILED ON THE PLANS. THE CONTRACTOR SHALL MAINTAIN THE STABILIZED CONSTRUCTION ENTRANCE UNTIL ALL DISTURBED AREAS ARE STABILIZED.

8. DUST CONTROL:

DUST CONTROL DURING CONSTRUCTION SHALL BE ACHIEVED BY THE USE OF A WATERING TRUCK TO PERIODICALLY SPRINKLE THE EXPOSED ROADWAY AREAS AS NECESSARY TO REDUCE DUST DURING THE DRY MONTHS. APPLYING OTHER DUST CONTROL MEASURES SUCH AS CALCIUM CHLORIDE OR OTHER MANUFACTURED PRODUCTS ARE ALLOWED IF AUTHORIZED BY THE PROPER LOCAL, STATE AND/OR FEDERAL REGULATING AGENCIES, HOWEVER, IT IS THE CONTRACTORS ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE. IF OFFSITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NOT LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS.

9. TEMPORARY VEGETATION:

TEMPORARY VEGETATION SHALL BE APPLIED TO DISTURBED AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR PERIODS UP TO 12 MONTHS. THIS PROCEDURE SHOULD BE USED EXTENSIVELY IN AREAS ADJACENT TO NATURAL RESOURCES. SEEDED PREPARATION AND APPLICATION OF SEED SHALL BE CONDUCTED AS INDICATED IN THE PERMANENT VEGETATION SECTION OF THIS NARRATIVE. SPECIFIC SEEDS (FAST GROWING AND SHORT LIVING) SHALL BE SELECTED FROM THE MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2003 OR LATER. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

10. PERMANENT VEGETATION:

REVEGETATION MEASURES SHALL COMMENCE IMMEDIATELY UPON COMPLETION OF FINAL GRADING OF AREAS TO BE LOAMED AND SEEDED. THE APPLICATION OF SEED SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR, PLEASE REFER TO THE WINTER EROSION CONTROL NOTES FOR MORE DETAIL. REVEGETATION MEASURES SHALL CONSIST OF THE FOLLOWING:

SEEDBED PREPARATION:

A. FOUR (4) INCHES OF LOAM SHALL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE. LOAM SHALL BE FREE OF SUBSOIL, CLAY LUMPS, STONES AND OTHER OBJECTS OVER 2 INCHES OR LARGER IN ANY DIMENSION, AND WITHOUT WEEDS, ROOTS OR OTHER OBJECTIONABLE MATERIAL.

B. SOILS TESTS SHALL BE TAKEN AT THE TIME OF SOIL STRIPPING TO DETERMINE FERTILIZATION REQUIREMENTS. SOILS TESTS SHALL BE TAKEN PROMPTLY AS TO NOT INTERFERE WITH THE 14-DAY LIMIT ON SOIL EXPOSURE. BASED UPON TEST RESULTS, SOIL AMENDMENTS SHALL BE INCORPORATED INTO THE SOIL PRIOR TO FINAL SEEDING. IN LIEU OF SOIL TESTS, SOIL AMENDMENTS MAY BE APPLIED AS FOLLOWS:

ITEM	APPLICATION RATE
10-20-20 FERTILIZER (N-P205-K20 OR EQUAL)	18.4 LBS./1,000 S.F.
GROUND LIMESTONE (50% CALCIUM & MAGNESIUM OXIDE)	138 LBS./1,000 S.F.

C. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL TO A DEPTH OF 4 INCHES WITH PROPER EQUIPMENT. ROLL THE AREA TO FIRM THE SEEDED EXCEPT ON CLAY OR SILTY SOILS OR COARSE SAND.

APPLICATION OF SEED:

A. SEEDING: SHALL BE CONDUCTED BETWEEN APRIL 1ST AND OCTOBER 1ST OF THE CONSTRUCTION YEAR. GENERALLY A SEED MIXTURE MAY BE APPLIED AS FOLLOWS: (MDEP SEED MIX 2 IS DISPLAYED)

SEED TYPE	APPLICATION RATE
CREEPIING RED FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
REDTOP	0.05 LBS/1,000 S.F. ( 2 LBS/ACRE)
TALL FESCUE	0.46 LBS/1,000 S.F. (20 LBS/ACRE)
TOTAL	0.97 LBS/1,000 S.F. (42 LBS/ACRE)

NOTE: A SPECIFIC SEED MIXTURE SHOULD BE CHOSEN TO MATCH THE SOILS CONDITION OF THE SITE. VARIOUS AGENCIES CAN RECOMMEND SEED MIXTURES. MDEP RECOMMENDED SEED MIXTURES ARE IN THE EROSION AND SEDIMENT CONTROL BMP MANUAL DATED 3/2003 OR LATER.

B. HYDROSEEDING: SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. RECOMMENDED SEEDING RATES MUST BE INCREASED BY 10% WHEN HYDROSEEDING.

C. MULCHING: SHALL COMMENCE IMMEDIATELY AFTER SEED IS APPLIED. REFER TO THE TEMPORARY MULCHING SECTION OF THIS NARRATIVE FOR DETAILS.

SODDING: FOLLOWING SEEDED PREPARATION, SOD CAN BE APPLIED IN LIEU OF SEEDING IN AREAS WHERE IMMEDIATE VEGETATION IS MOST BENEFICIAL SUCH AS DITCHES, AROUND STORMWATER DROP INLETS AND AREAS OF AESTHETIC VALUE. SOD SHOULD BE LAID AT RIGHT ANGLES TO THE DIRECTION OF FLOW, STARTING AT THE LOWEST ELEVATION. SOD SHOULD BE ROLLED OR TAMPED DOWN TO EVEN OUT THE JOINTS ONCE LAID DOWN, WHERE FLOW IS PREVALENT THE SOD MUST BE PROPERLY ANCHORED DOWN. IRRIGATE THE SOD IMMEDIATELY AFTER INSTALLATION. IN MOST CASES, SOD CAN BE ESTABLISHED BETWEEN APRIL 1ST AND NOVEMBER 15TH OF THE CONSTRUCTION YEAR, HOWEVER, REFER TO THE WINTER EROSION CONTROL NOTES FOR ANY ACTIVITIES AFTER OCTOBER 1ST.

STANDARDS FOR TIMELY STABILIZATION:

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE CONTRACTOR WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE CONTRACTOR WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE MDEP WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE CONTRACTOR FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SLOPE FOR LATE FALL AND WINTER.

- STABILIZE THE SOIL WITH TEMPORARY VEGETATION AND EROSION CONTROL MATS -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. THE CONTRACTOR WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 90% OF THE DISTURBED SLOPE BY NOVEMBER 1, THEN THE APPLICANT WILL COVER THE SLOPE WITH A LAYER OF WOOD WASTE COMPOST AS DESCRIBED IN ITEM 2(C.) OF THIS STANDARD OR WITH STONE RIPRAP AS DESCRIBED IN ITEM 2(D.) OF THIS STANDARD.
- STABILIZE THE SLOPE WITH SOD -- THE CONTRACTOR WILL STABILIZE THE DISTURBED SLOPE WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SLOPE WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL. THE APPLICANT WILL NOT USE LATE-SEASON SOD INSTALLATION TO STABILIZE SLOPES HAVING A GRADE GREATER THAN 33% (3H:1V).
- STABILIZE THE SLOPE WITH WOOD WASTE COMPOST -- THE CONTRACTOR WILL PLACE A SIX-INCH LAYER OF WOOD WASTE COMPOST ON THE SLOPE BY NOVEMBER 15. PRIOR TO PLACING THE WOOD WASTE COMPOST, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED SLOPE. THE APPLICANT WILL NOT USE WOOD WASTE COMPOST TO STABILIZE SLOPES HAVING GRADES GREATER THAN 50% (2H:1V) OR HAVING GROUNDWATER SEEPS ON THE SLOPE FACE.
- STABILIZE THE SLOPE WITH STONE RIPRAP -- THE CONTRACTOR WILL PLACE A LAYER OF STONE RIPRAP ON THE SLOPE BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE NEEDED FOR STABILITY AND TO DESIGN A FILTER LAYER FOR UNDERNEATH THE RIPRAP.

STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE CONTRACTOR WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE CONTRACTOR FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE CONTRACTOR WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE SOIL FOR LATE FALL AND WINTER.

- STABILIZE THE SOIL WITH TEMPORARY VEGETATION -- BY OCTOBER 1 THE CONTRACTOR WILL SEED THE DISTURBED SOIL WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET, LIGHTLY MULCH THE SEEDED SOIL WITH HAY OR STRAW AT A RATE OF AT LEAST 150 LBS/1,000 SQUARE FEET, AND ANCHOR THE MULCH WITH PLASTIC NETTING. THE APPLICANT WILL MONITOR GROWTH OF THE RYE OVER THE NEXT 30 DAYS. IF THE RYE FAILS TO GROW AT LEAST THREE INCHES OR COVER AT LEAST 90% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM 3(C.) OF THIS STANDARD.
- STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION INCLUDES THE APPLICANT PINNING THE SOD ONTO THE SOIL WITH WIRE PINS, ROLLING THE SOD TO GUARANTEE CONTACT BETWEEN THE SOD AND UNDERLYING SOIL, AND WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL.
- STABILIZE THE SOIL WITH MULCH -- BY NOVEMBER 15 THE APPLICANT WILL MULCH THE DISTURBED SOIL BY SPREADING HAY OR STRAW AT A RATE OF AT LEAST 150 POUNDS PER 1000 SQUARE FEET ON THE AREA SO THAT NO SOIL IS VISIBLE THROUGH THE MULCH. PRIOR TO APPLYING THE MULCH, THE APPLICANT WILL REMOVE ANY SNOW ACCUMULATION ON THE DISTURBED AREA. IMMEDIATELY AFTER APPLYING THE MULCH, THE APPLICANT WILL ANCHOR THE MULCH WITH PLASTIC NETTING TO PREVENT WIND FROM MOVING THE MULCH OFF THE DISTURBED SOIL.

1. MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION CYCLE. AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, AND AT LEAST EVERY SEVEN (7) DAYS, THE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES. THE CONTRACTOR SHALL PERFORM REPAIRS NO LATER THAN THE END OF THE NEXT WORKDAY, TO ALLOW CONTINUED PROPER FUNCTIONING OF THE EROSION CONTROL MEASURE. THE CONTRACTOR SHALL PERFORM THE NECESSARY REGULATING AGENCIES WITH WRITTEN DOCUMENTATION DESCRIBING DATES OF INSPECTIONS AND NECESSARY FOLLOW-UP WORK TO MAINTAIN EROSION CONTROL MEASURES MEETING THE REQUIREMENTS OF THIS PLAN WITHIN SEVEN (7) DAYS.

2. FOLLOWING THE TEMPORARY AND/OR FINAL SEEDINGS, THE CONTRACTOR SHALL INSPECT THE WORK AREA SEMIMONTHLY UNTIL THE SEEDINGS HAVE BEEN ESTABLISHED. ESTABLISHED MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH. RESEEDING SHALL BE CARRIED OUT BY THE CONTRACTOR WITH FOLLOW-UP INSPECTIONS IN THE EVENT OF ANY FAILURES UNTIL VEGETATION IS ADEQUATELY ESTABLISHED.

HOUSEKEEPING:

1. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM CONSTRUCTION AND WASTE MATERIALS STORED ON SITE TO ENTER STORMWATER, WHICH INCLUDES STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, THE SITE CONTRACTOR OR OPERATOR MUST DEVELOP, AND IMPLEMENT AS NECESSARY, APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING MEASURES.

2. GROUNDWATER PROTECTION: DURING CONSTRUCTION, LIQUID PETROLEUM PRODUCTS AND OTHER HAZARDOUS MATERIALS WITH THE POTENTIAL TO CONTAMINATE GROUNDWATER MAY NOT BE STORED OR HANDLED IN AREAS OF THE SITE DRAINING TO AN INFILTRATION AREA. AN "INFILTRATION AREA" IS ANY AREA OF THE SITE THAT BY DESIGN OR AS A RESULT OF SOILS, TOPOGRAPHY AND OTHER RELEVANT FACTORS ACCUMULATES RUNOFF THAT INFILTRATES INTO THE SOIL, DIKES, BERMS, SWALES, AND OTHER STRUCTURES. TO PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS. ANY PROJECT PROPOSING INFILTRATION OF STORMWATER MUST PROVIDE ADEQUATE PRE-TREATMENT OF STORMWATER PRIOR TO DISCHARGE OF STORMWATER TO THE INFILTRATION AREA, OR PROVIDE FOR TREATMENT WITHIN THE INFILTRATION AREA, IN ORDER TO PREVENT THE ACCUMULATION OF FINES, REDUCTION IN INFILTRATION RATE, AND CONSEQUENT FLOODING AND DESTABILIZATION.

3. FUGITIVE SEDIMENT AND DUST: ACTIONS MUST BE TAKEN TO ENSURE THAT ACTIVITIES DO NOT RESULT IN NOTICEABLE EROSION OF SOILS OR FUGITIVE DUST EMISSIONS DURING OR AFTER CONSTRUCTION, OIL MAY NOT BE USED FOR DUST CONTROL, BUT OTHER WATER ADDITIVES MAY BE CONSIDERED AS NEEDED. A STABILIZED CONSTRUCTION ENTRANCE (SCE) SHOULD BE INCLUDED TO MINIMIZE TRACKING OF MUD AND SEDIMENT. IF OFF-SITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEEP IMMEDIATELY AND NO LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS. OPERATIONS DURING DRY MONTHS, THAT EXPERIENCE FUGITIVE DUST PROBLEMS, SHOULD WET DOWN UNPAVED ACCESS ROADS ONCE A WEEK OR MORE FREQUENTLY AS NEEDED WITH A WATER ADDITIVE TO SUPPRESS FUGITIVE SEDIMENT AND DUST.

4. DEBRIS AND OTHER MATERIALS: MINIMIZE THE EXPOSURE OF CONSTRUCTION DEBRIS, BUILDING AND LANDSCAPING MATERIALS, TRASH, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS TO PRECIPITATION AND STORMWATER RUNOFF. THESE MATERIALS MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE.

5. EXCAVATION DE-WATERING: EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS, PONDS, AND OTHER AREAS WITHIN THE CONSTRUCTION AREA THAT RETAIN WATER AFTER EXCAVATION. IN MOST CASES THE COLLECTED WATER IS HEAVILY SILTED AND HINDERS CORRECT AND SAFE CONSTRUCTION PRACTICES. THE COLLECTED WATER REMOVED FROM THE PONDED AREA, EITHER THROUGH GRAVITY OR PUMPING, MUST BE SPREAD THROUGH NATURAL WOODDED BUFFERS OR REMOVED TO AREAS THAT ARE SPECIFICALLY DESIGNED TO COLLECT THE MAXIMUM AMOUNT OF SEDIMENT POSSIBLE, LIKE A COFFERDAM SEDIMENTATION BASIN. AVOID ALLOWING THE WATER TO FLOW OVER DISTURBED AREAS OF THE SITE. EQUIVALENT MEASURES MAY BE TAKEN IF APPROVED BY THE DEPARTMENT.

6. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES, WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST. THESE MUST BE IDENTIFIED AND STEPS SHOULD BE TAKEN TO ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORMWATER COMPONENT(S) OF THE DISCHARGE. AUTHORIZED NON-STORMWATER DISCHARGES ARE:

- DISCHARGES FROM FIREFIGHTING ACTIVITY;
- FIRE HYDRANT FLUSHINGS;
- WASHWATER (WHERE SPILL SILEKES ARE NOT USED AND WASHING IS LIMITED TO THE EXTERIOR OF VEHICLES (ENGINE, UNDERCARRIAGE AND TRANSMISSION WASHING IS PROHIBITED);
- DUST CONTROL RUNOFF IN ACCORDANCE WITH PERMIT CONDITIONS AND ITEM 3 OF THIS SECTION;
- ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE DETERGENTS;
- PAVEMENT WASHWATER (WHERE SPILL SILEKES OF TOXIC OR HAZARDOUS MATERIALS HAVE NOT OCCURRED, UNLESS ALL SPILLED MATERIAL HAD BEEN REMOVED) IF DETERGENTS ARE NOT USED;
- UNCONTAMINATED AIR CONDITIONING OR COMPRESSOR CONDENSATE;
- UNCONTAMINATED GROUNDWATER OR SPRING WATER;
- FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING (SEE REQUIREMENTS IN ITEM 5 OF THIS SECTION);
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
- LANDSCAPE IRRIGATION.

7. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON-STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH ITEM 6 OF THIS SECTION. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:

- WASTEWATER FROM THE WASHOUT OR CLEANOUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS;
- FUELS, OILS OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE;
- SOAPS, SOLVENTS, OR DETERGENTS USED IN VEHICLE AND EQUIPMENT WASHING; AND
- TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

WINTER EROSION CONTROL MEASURES

THE WINTER CONSTRUCTION PERIOD IS FROM OCTOBER 1 THROUGH APRIL 15. IF THE CONSTRUCTION SITE IS NOT STABILIZED WITH PAVEMENT, A ROAD GRAVEL BASE, 90% MATURE VEGETATION COVER OR RIPRAP BY NOVEMBER 15 THEN THE SITE NEEDS TO BE PROTECTED WITH OVER-WINTER STABILIZATION. AN AREA CONSIDERED OPEN IS ANY AREA NOT STABILIZED WITH PAVEMENT, VEGETATION, MULCHING, EROSION CONTROL MATS, RIPRAP OR GRAVEL BASE ON A ROAD. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS EXPECTED TO BE UNDER TAKEN DURING THE PROCEEDING 15 DAYS AND THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT. ALL AREAS SHALL BE CONSIDERED TO BE DENUEDED UNTIL THE SUBBASE GRAVEL IS INSTALLED IN ROADWAY AREAS OR THE AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH RATE SHALL BE A MINIMUM OF 150 LBS./1,000 S.F. (3 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEEDIMENTATION FROM THE SITE DEPENDENT UPON THE ACTUAL SITE AND WEATHER CONDITIONS. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED, IN ORDER TO MINIMIZE AREAS WITHOUT EROSION CONTROL PROTECTION.

1. SOIL STOCKPILES

STOCKPILES OF SOIL OR SUBSOIL WILL BE MULCHED FOR OVER WINTER PROTECTION WITH HAY OR STRAW AT TWICE THE NORMAL RATE OR AT 150 LBS/1,000 S.F. (3 TONS PER ACRE) OR WITH A FOUR-INCH LAYER OF WOOD WASTE EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA.

2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 90% MATURE VEGETATION CATCH, SHALL BE MULCHED BY DECEMBER 1 AND ANCHORED WITH PLASTIC NETTING OR PROTECTED WITH EROSION CONTROL MATS. DURING WINTER CONSTRUCTION, A DOUBLE LINE OF SEDIMENT BARRIERS (I.E. SILT FENCE BACKED WITH HAY BALES OR EROSION CONTROL MIX) WILL BE PLACED BETWEEN ANY NATURAL RESOURCE AND THE DISTURBED AREA.

PROJECTS CROSSING THE NATURAL RESOURCE SHALL BE PROTECTED A MINIMUM DISTANCE OF 100 FEET ON EITHER SIDE FROM THE RESOURCE. EXISTING PROJECTS NOT STABILIZED BY DECEMBER 1 SHALL BE PROTECTED WITH THE SECOND LINE OF SEDIMENT BARRIER TO ENSURE FUNCTIONALITY DURING THE SPRING THAW AND RAINS.

3. SEDIMENT BARRIERS

DURING FROZEN CONDITIONS, SEDIMENT BARRIERS SHALL CONSIST OF WOOD WASTE FILTER BERMS AS FROZEN SOIL PREVENTS THE PROPER INSTALLATION OF HAY BALES AND SEDIMENT SILT FENCES.

4. MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUEDED UNTIL AREAS OF FUTURE LOAM AND SEED HAVE BEEN LOAMED, SEEDED AND MULCHED. HAY AND STRAW MULCH SHALL BE APPLIED AT A RATE OF 150 LB. PER 1,000 SQUARE FEET OR 3 TONS/ACRE (TWICE THE NORMAL ACCEPTED RATE OF 75-LBS./1,000 S.F. OR 1.5 TONS/ACRE) AND SHALL BE PROPERLY ANCHORED. MULCH SHALL NOT BE SPREAD ON TOP OF SNOW. THE SNOW WILL BE REMOVED DOWN TO A ONE-INCH DEPTH OR LESS PRIOR TO APPLICATION. AFTER EACH DAY OF FINAL GRADING, THE AREA WILL BE PROPERLY STABILIZED WITH ANCHORED HAY OR STRAW OR EROSION CONTROL MATTING. AN AREA SHALL NOT BE CONSIDERED WITHIN THE TREATMENT OF OPEN AREAS AFTER OCTOBER 1ST OF THE CONSTRUCTION YEAR. NO MORE THAN ONE (1) ACRE SHOULD BE ACTIVELY WORKED ON AT ONE TIME, AND NO LARGER AREA SHOULD BE DISTURBED THAN CAN BE MULCHED IN ONE (1) DAY.

BETWEEN THE DATES OF SEPTEMBER 1 AND APRIL 15, ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION CHEMICAL, TRACK OR WOOD CELLULOSE FIBER. WHEN GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH THEN COVER IS SUFFICIENT. AFTER NOVEMBER 1ST, MULCH AND ANCHORING OF ALL BARE SOIL SHALL OCCUR AT THE END OF EACH FINAL GRADING WORK DAY.

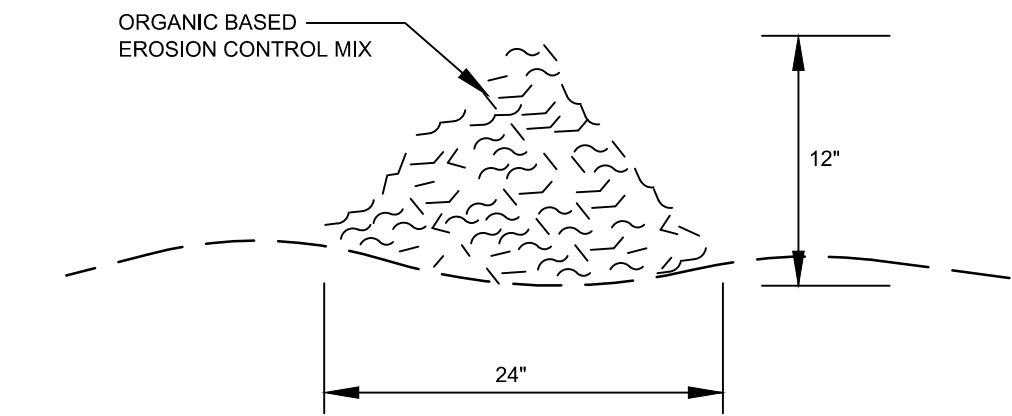
5. MULCHING ON SLOPES AND DITCHES

SLOPES SHALL NOT BE LEFT EXPOSED FOR ANY EXTENDED TIME OF WORK SUSPENSION UNLESS FULLY MULCHED AND ANCHORED WITH PEG AND NETTING OR WITH EROSION CONTROL MATS. MULCH SHALL BE APPLIED AT A RATE OF 150 LBS/1,000 S.F. ON ALL SLOPES GREATER THAN 3%. ON SLOPES GREATER THAN 3%, MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPES EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 5%. EROSION CONTROL BLANKETS SHALL BE USED IN LIEU OF MULCH IN ALL DRAINAGE WAYS WITH SLOPES 8%. EROSION CONTROL MIX CAN BE USED TO SUBSTITUTE EROSION CONTROL BLANKETS ON ALL SLOPES EXCEPT DITCHES.

6. SEEDING

BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED, DURING PERIODS OF ABOVE FREEZING TEMPERATURES FINISHED AREAS SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED WITH A UNIFORM SURFACE, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 3 TIMES HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. DORMANT SEEDING MAY BE SELECTED TO BE PLACED PRIOR TO THE PLACEMENT OF MULCH AND FABRIC NETTING ANCHORED WITH STAPLES. IF DORMANT SEEDING IS USED FOR THE SITE, ALL DISTURBED AREAS SHALL RECEIVE 4' OF LOAM AND SEED AT AN APPLICATION RATE OF 5LBS/1000 S.F. ALL AREAS SEEDED DURING THE WINTER WILL BE INSPECTED IN THE SPRING FOR ADEQUATE CATCH. ALL AREAS SUFFICIENTLY VEGETATED (LESS THAN 90% CATCH) SHALL BE REVEGETATED BY REPLACING LOAM, SEED AND MULCH. IF DORMANT SEEDING IS NOT USED FOR THE SITE, ALL DISTURBED AREAS SHALL BE REVEGETATED IN THE SPRING. SEED TYPE SHALL BE WINTER RYE.

7. INSPECTION AND MONITORING

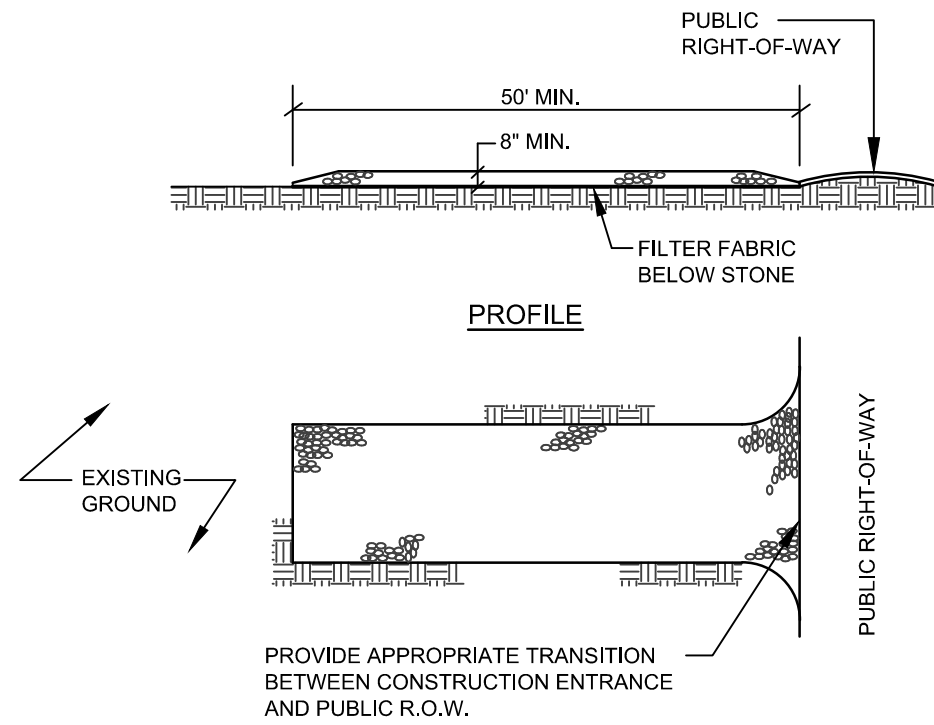


**COMPOSITION**  
EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL, LAST REVISED 10/2016 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: SHREDDED BARK, STUMP GRINDINGS, COMPOSTED BARK, OR ACCEPTABLE MANUFACTURED PRODUCTS. WOOD AND BARK CHIPS, GROUND CONSTRUCTION DEBRIS OR REPROCESSED WOOD PRODUCTS WILL NOT BE ACCEPTABLE AS THE ORGANIC COMPONENT OF THE MIX.

**INSTALLATION:**  
1. THE BARRIER MUST BE PLACED ACROSS THE SLOPE, ALONG THE CONTOUR.  
2. EXISTING GROUND SHALL BE PREPARED SUCH THAT THE BARRIER MAY LIE NEARLY FLAT ALONG THE GROUND TO AVOID THE CREATION OF VOIDS AND BRIDGES IN ORDER TO MINIMIZE THE POTENTIAL OF WASH OUTS UNDER THE BARRIER.  
3. THE BARRIER SHALL BE A MINIMUM OF 1 FOOT HIGH (AS MEASURED ON THE UPHILL SIDE) AND 2 FEET WIDE FOR SLOPES LESS THAN 5% IN GRADE AND SHALL BE WIDER TO ACCOMMODATE THE ADDITIONAL RUNOFF.  
4. EROSION CONTROL MIX CAN BE INSTALLED WHERE SILT FENCE IS ILLUSTRATED ON THE DESIGN PLANS IN AREAS EXCEPT IN, BUT NOT LIMITED TO, THE FOLLOWING AREAS: WETLAND AREAS, AT POINTS OF CONCENTRATED FLOW, BELOW CULVERT OUTLET APRONS, AROUND CATCH BASINS AND CLOSED STORM SYSTEMS AND AT THE BOTTOM OF STEEP SLOPES THAT ARE MORE THAN 50 FEET FROM TOP TO BOTTOM.

### EROSION CONTROL MIX BERM

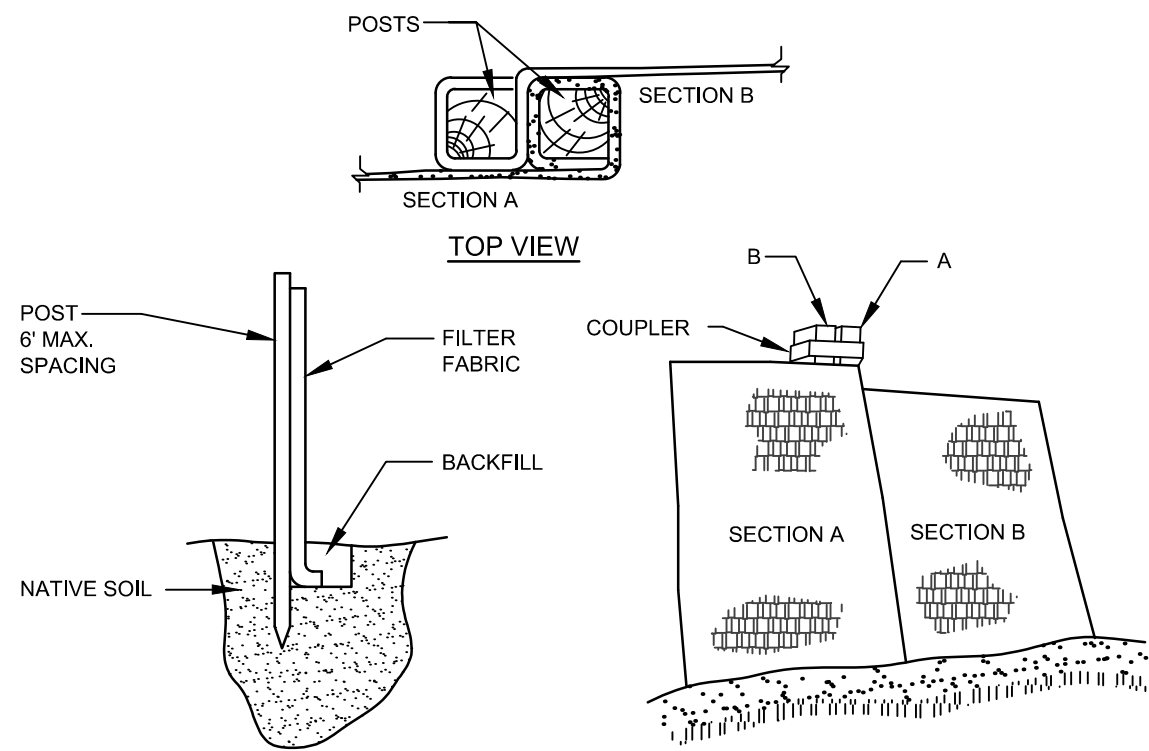
NOT TO SCALE



**NOTES:**  
1. STONE SIZE- AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"), USE CRUSHED STONE.  
2. LENGTH- AS SHOWN ON PLANS, MIN. 50 FEET.  
3. THICKNESS- NOT LESS THAN EIGHT (8) INCHES.  
4. WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS.  
5. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

### STABILIZED CONSTRUCTION EXIT

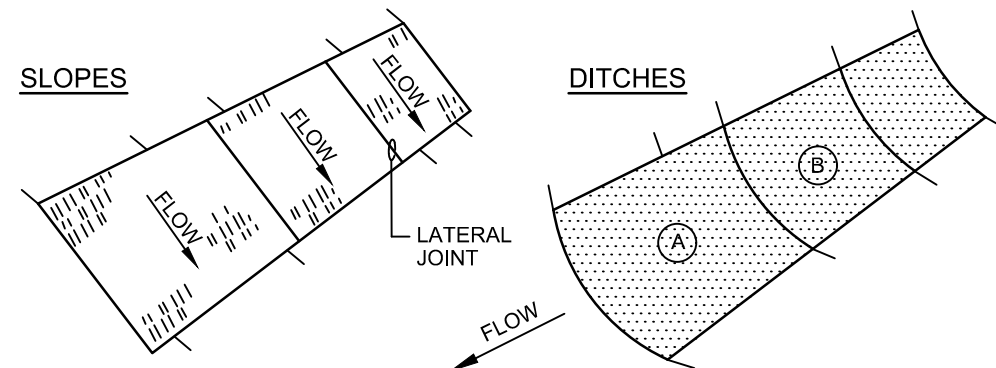
NOT TO SCALE



**INSTALLATION NOTES:**  
1. EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER.  
2. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.  
3. DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM.  
4. LAY THE TOE-IN FLAP OF FABRIC ONTO THE UNDISTURBED BOTTOM OF THE TRENCH, BACKFILL THE TRENCH AND TAMP THE SOIL. TOE-IN CAN ALSO BE ACCOMPLISHED BY LAYING THE FABRIC FLAP ON UNDISTURBED GROUND AND PILING AND TAMPING FILL AT THE BASE, BUT MUST BE ACCOMPANIED BY AN INTERCEPTION DITCH.  
5. JOIN SECTION AS SHOWN ABOVE.  
6. BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

### FILTER BARRIER

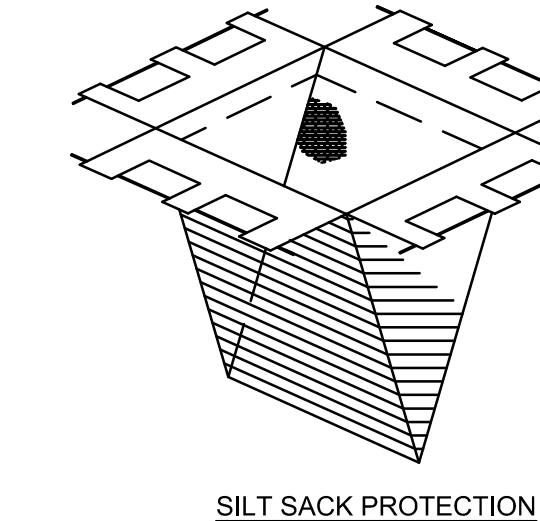
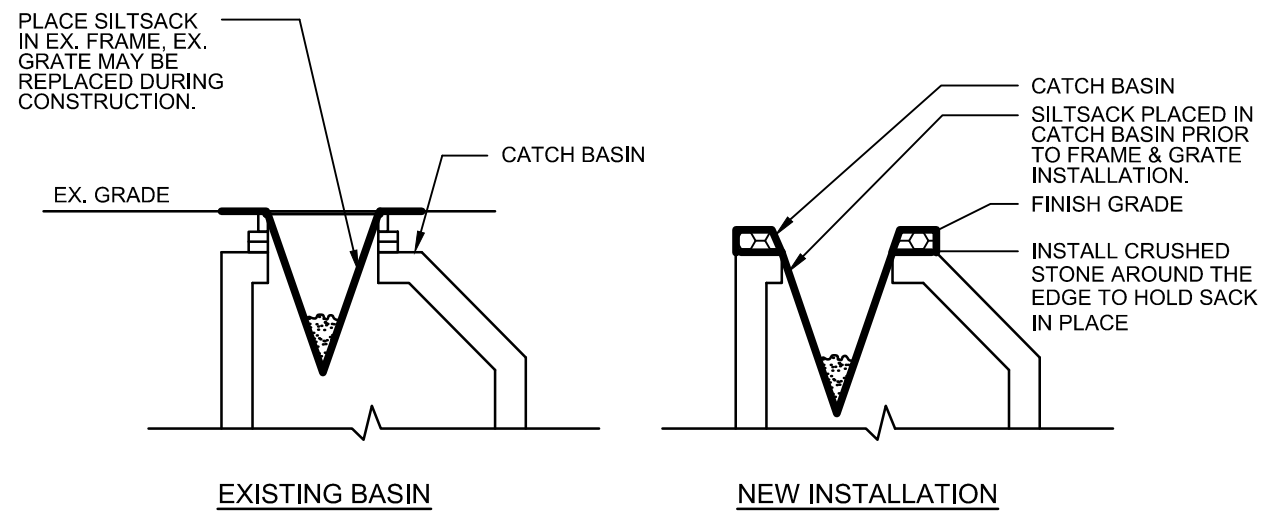
NOT TO SCALE



**NOTES:**  
1. BURY THE TOP END OF THE MESH MATERIAL IN A 6" TRENCH AND BACKFILL AND TAMP TRENCHING SECURE END WITH STAPLES AT 6" SPACING, 4" DOWN FROM EXPOSED END.  
2. FLOW DIRECTION JOINTS TO HAVE UPPER END OF LOWER STRIP BURIED WITH UPPER LAYERS OVERLAPPED 4" AND STAPLED. OVERLAP B OVER A.  
3. LATERAL JOINTS TO HAVE 4" OVERLAP OF STRIPS, STAPLE 18" ON CENTER.  
4. STAPLE OUTSIDE LATERAL EDGE 2" ON CENTER.  
5. WIRE STAPLES TO BE MIN. OF # 11 WIRE 6" LONG AND 1-1/2" WIDE.  
6. USE NORTH AMERICAN GREEN DS 150 OR APPROVED EQUAL.

### EROSION CONTROL BLANKET

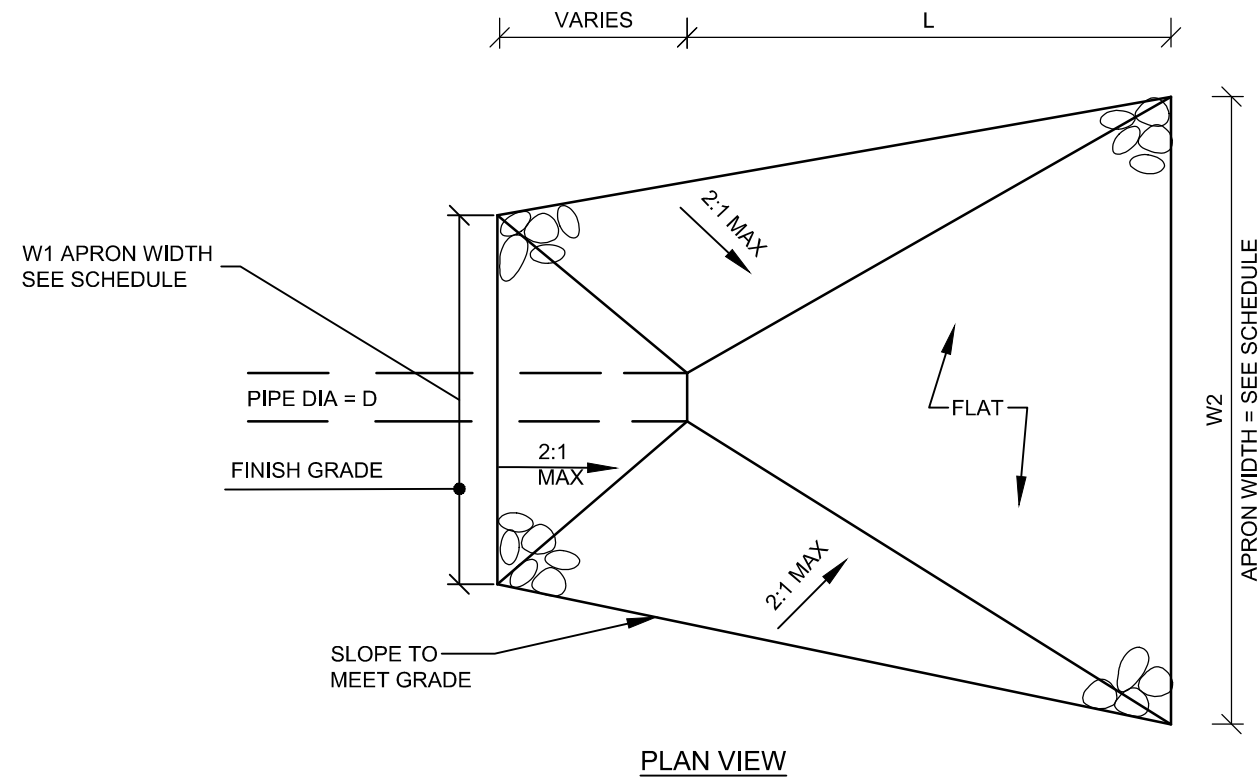
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**NOTES:**  
PRIOR TO FINAL GRADING AND PAVING OPERATIONS BEGIN A CATCH BASIN INSERT (SUCH AS A SILT SACK OR A DANDY BAG II) MUST BE INSTALLED IN EACH BASIN PER MANUFACTURER'S INSTRUCTIONS. HAY BALES SHOULD BE REMOVED ONCE INSERTS ARE INSTALLED.

### CATCH BASIN PROTECTION DETAIL (FOR PAVED AREAS)

NOT TO SCALE

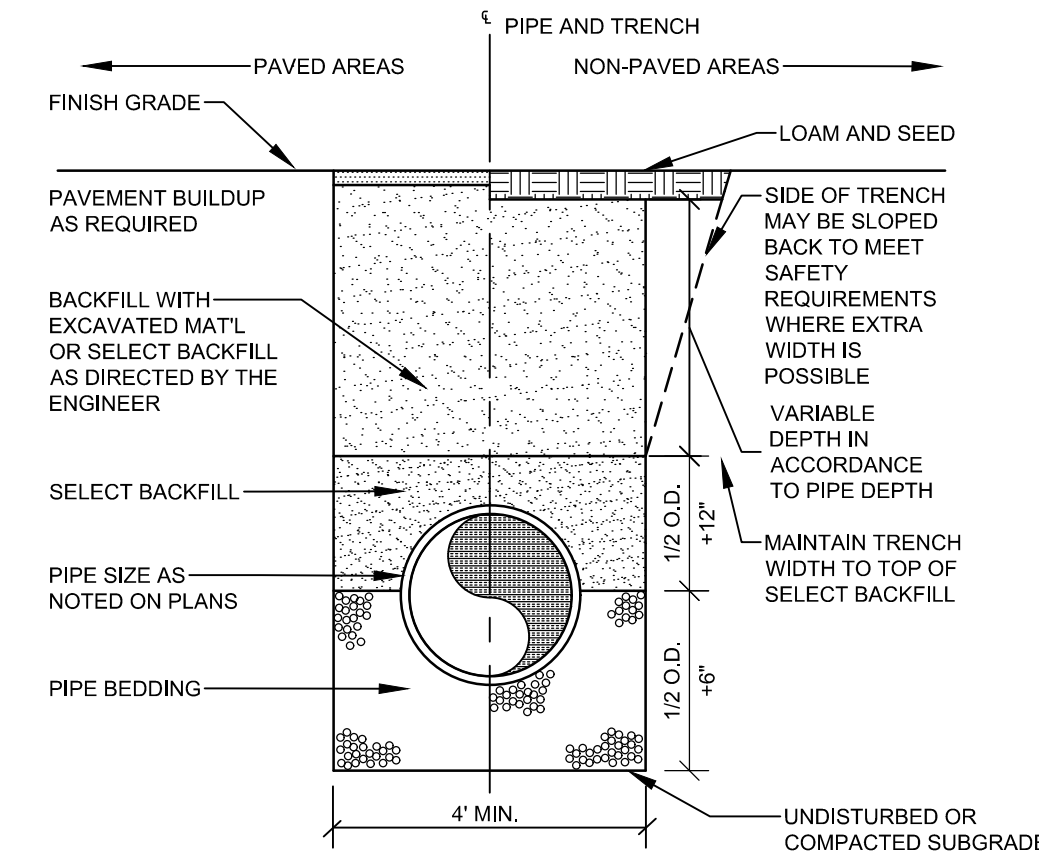


**NOTES:**  
1. RIPRAP TO BE PROCESSED ANGULAR ROCK  
2. RIPRAP GRADATION SHALL BE A WELL GRADED MIX FROM ABOUT 1.5 TIMES D SIZE TO 25 PERCENT OF THE D SIZE  
3. THE RIPRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE THAN 12" ONTO THE GEOTEXTILE  
4. THE FINISHED SURFACE SHALL BE A RELATIVELY SMOOTH, UNIFORMLY SLOPED SURFACE

TYPICAL RIPRAP APRON SCHEDULE					
CULVERT DIAMETER - D (IN.)	APRON LENGTH - L (FT.)	WIDTH - W1 (FT.)	WIDTH - W2 (FT.)	RIPRAP D50 (IN.)	RIPRAP THICKNESS (IN.)
12	8	3	9	6	14

### RIPRAP APRON

NOT TO SCALE

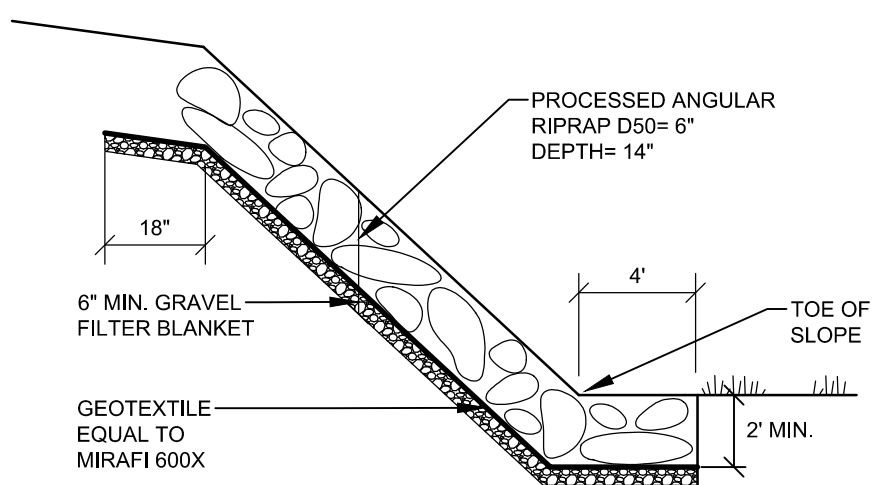


TRENCH BACKFILL SCHEDULE		
PIPE TYPE	PIPE BEDDING MATERIAL	SELECT BACKFILL
CORRUGATED METAL DUCTILE IRON REINFORCED CONCRETE	MDOT 703.22 TYPE B UD BACKFILL	MDOT 703.22 TYPE B UD BACKFILL
PVC-SDR 35 HDPE	MDOT 703.13 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL, OR MDOT 703.13 3/4" CRUSHED STONE
PERFORATED PVC-SDR35 HDPE	MDOT 703.13 3/4" CRUSHED STONE	MDOT 703.22 TYPE B UD BACKFILL, OR MDOT 703.13 3/4" CRUSHED STONE

**NOTE:**  
ALL BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL MEET ALL STATE AND O.S.H.A. SAFETY STANDARDS.

### TYPICAL TRENCH SECTION

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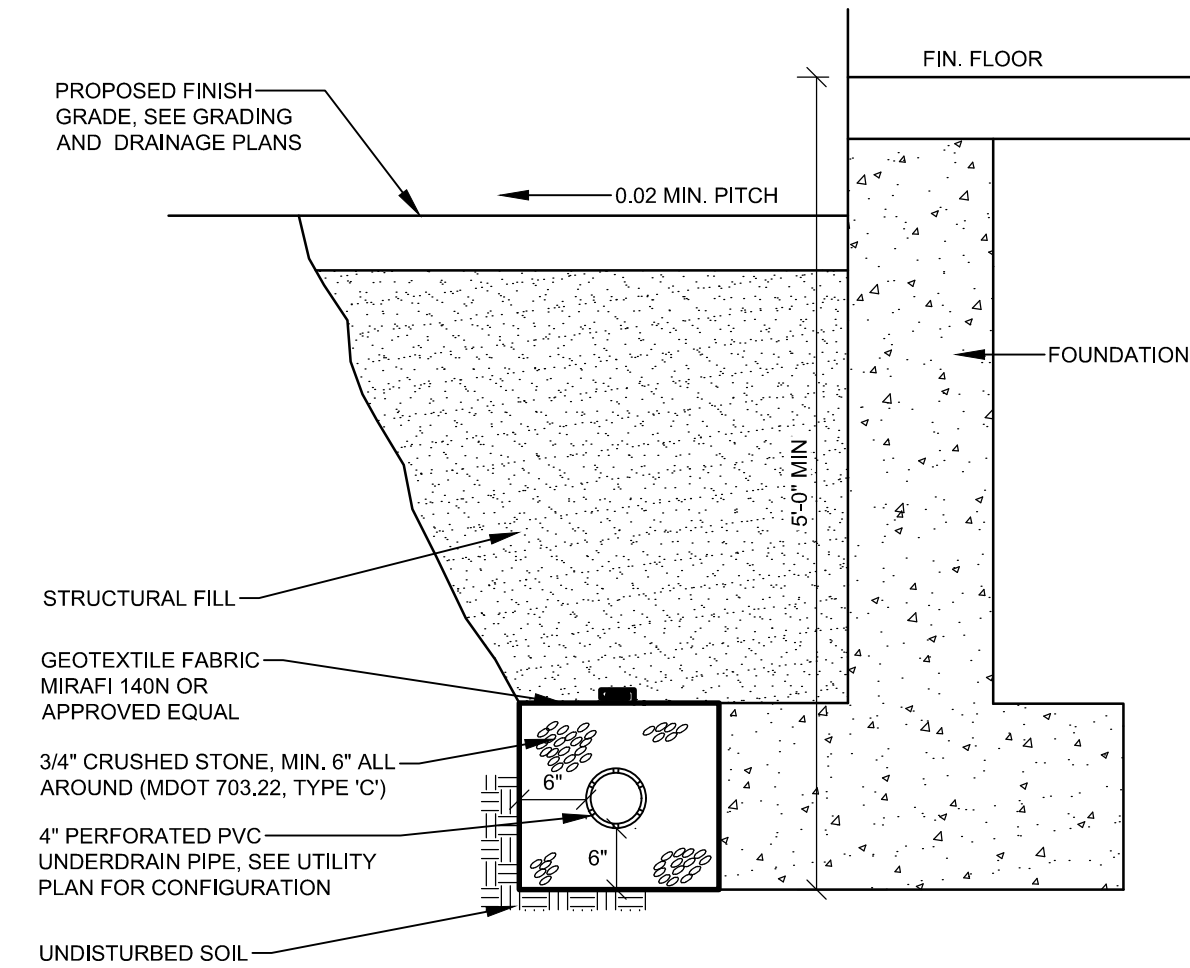


**NOTES**  
1. STONE FOR RIP RAP SHALL CONSIST OF SUB-ANGULAR FIELD STONE OR ROUGH UNHEWN QUARRY STONE OF APPROXIMATELY RECTANGULAR SHAPE  
2. GRAVEL FILTER BLANKET MATERIAL SHALL BE DOT TYPE C UNDERDRAIN AND SHALL BE FREE FROM ORGANIC MATERIAL, IT MAY BE CRUSHED, UNCRUSHED, OR WASHED GRAVEL WITH THE FOLLOWING SPECS:  
3. GROUT RIPRAP 3" FROM EDGE OF PAVEMENT AT CURB CUT.

SIEVE OPENING	% BY WEIGHT PASSING MESH SIEVES
1 INCH	100 %
3/4 INCH	90-100%
3/8 INCH	0-75 %
NO. 4	0-25%
NO. 10	0-5.0%

### SIDE SLOPE RIPRAP

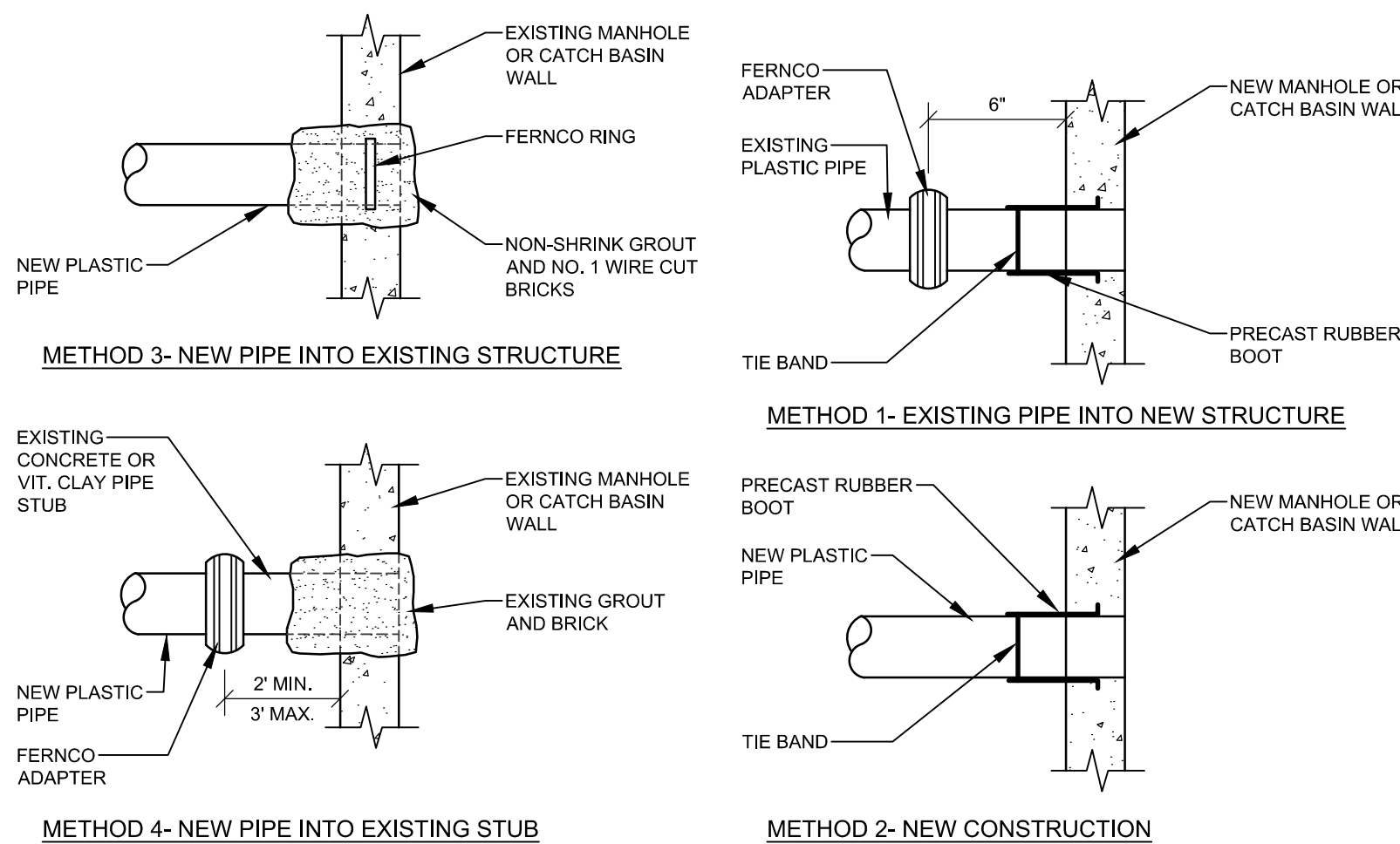
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**NOTES:**  
1. FOUNDATION DRAIN INSTALLATION AND MATERIAL GRADATION RECOMMENDATIONS SHALL BE COORDINATED WITH THE GEOTECHNICAL REPORT.  
2. THIS DETAIL FOR PURPOSES OF THE FOUNDATION DRAIN AND BUILDING BACKFILL IS PROVIDED FOR ILLUSTRATIVE PURPOSES ONLY. CONSTRUCTION OF THE FOUNDATION DRAIN, FOOTING AND ASSOCIATED MATERIALS SHALL BE COORDINATED WITH THE BUILDING DRAWINGS.

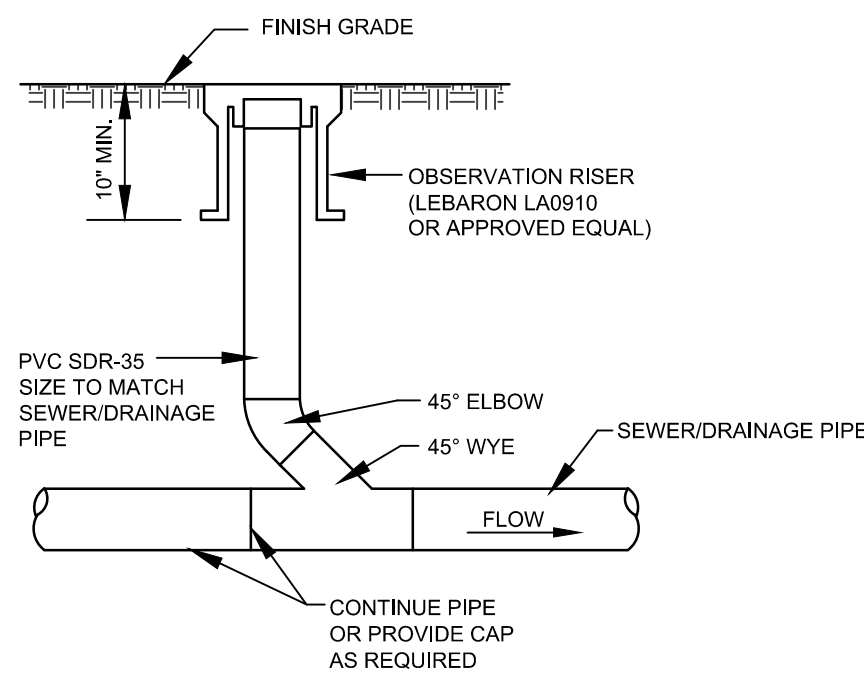
### FOUNDATION DRAIN SECTION

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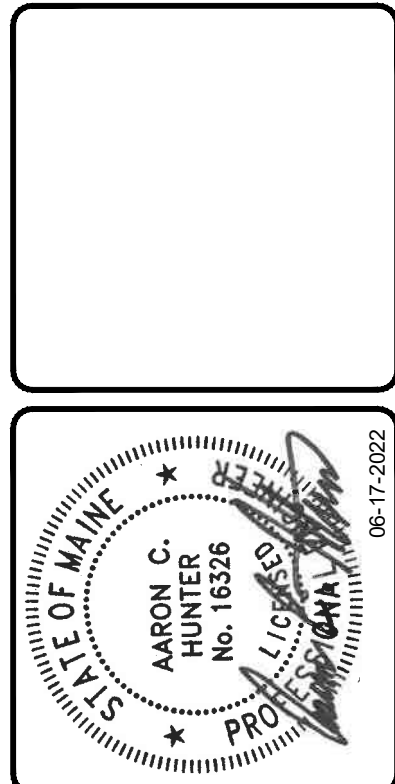
### PLASTIC PIPE CONNECTIONS

NOT TO SCALE



### CLEANOUT IN GRASSED AREAS

NOT TO SCALE



TOWN SITE PLAN PUBLIC HEARING SUBMITTAL	
D	ACH
C	ACH
B	ACH
A	ACH
REV	BY
DATE	STATUS
THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.	



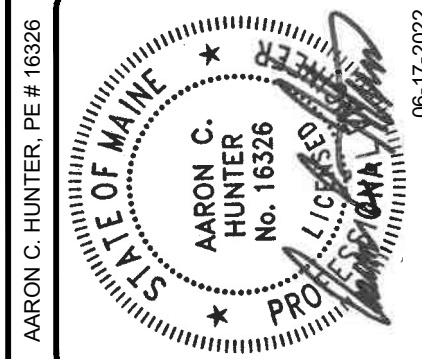
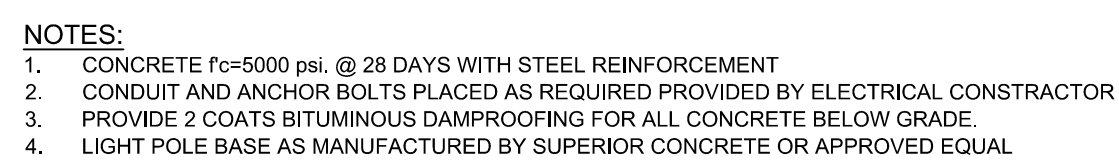
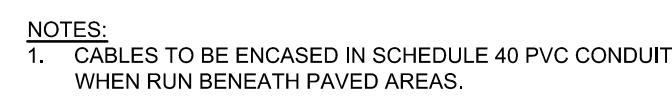
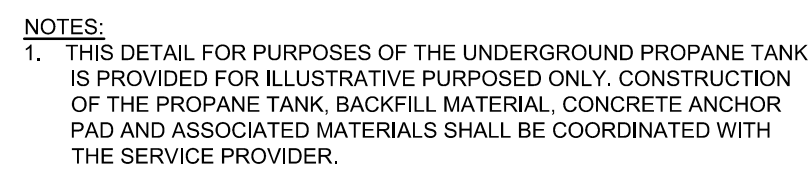
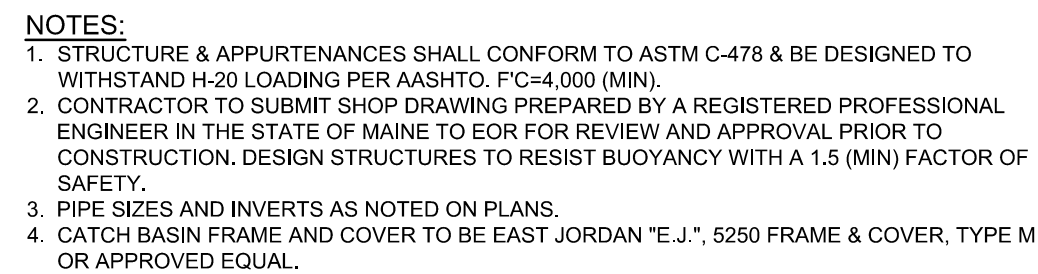
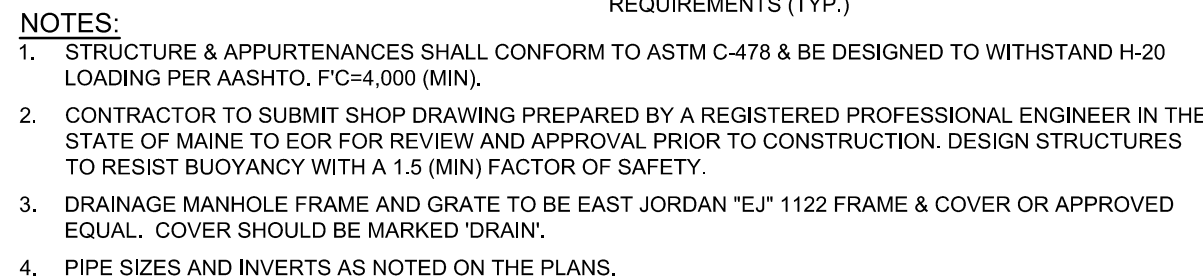
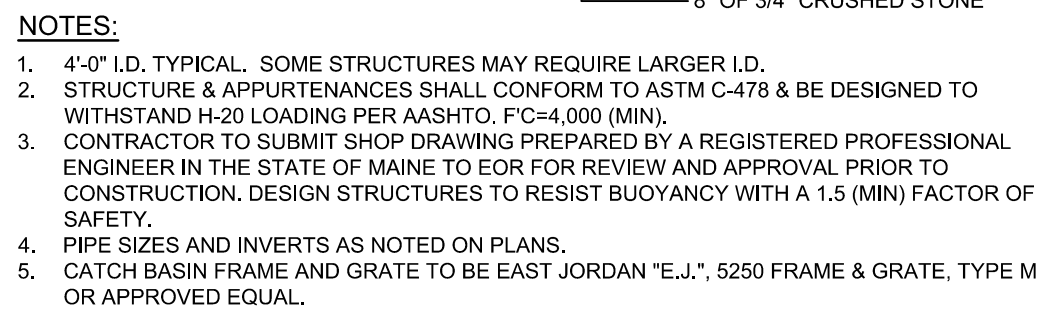
NOT FOR CONSTRUCTION

DETAILS  
OF: WATERBORO CROSSING  
SOKIKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	NONE
PROJECT	16477

SHEET 15 OF 20

16477D.dwg, TAB 02



D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL
C	ACH	06-03-2022	MDEP SUBMITTAL
B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL
A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL
REV	BY	DATE	STATUS

**SEBAGO**  
TECHNICS

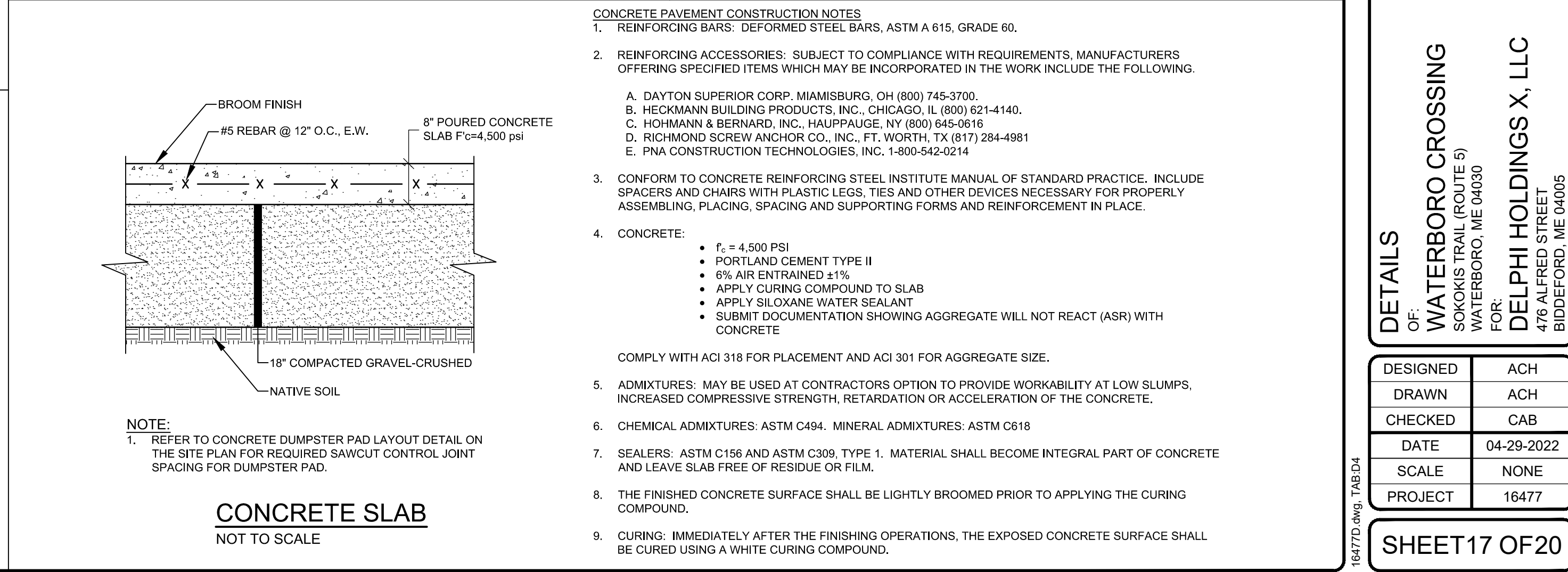
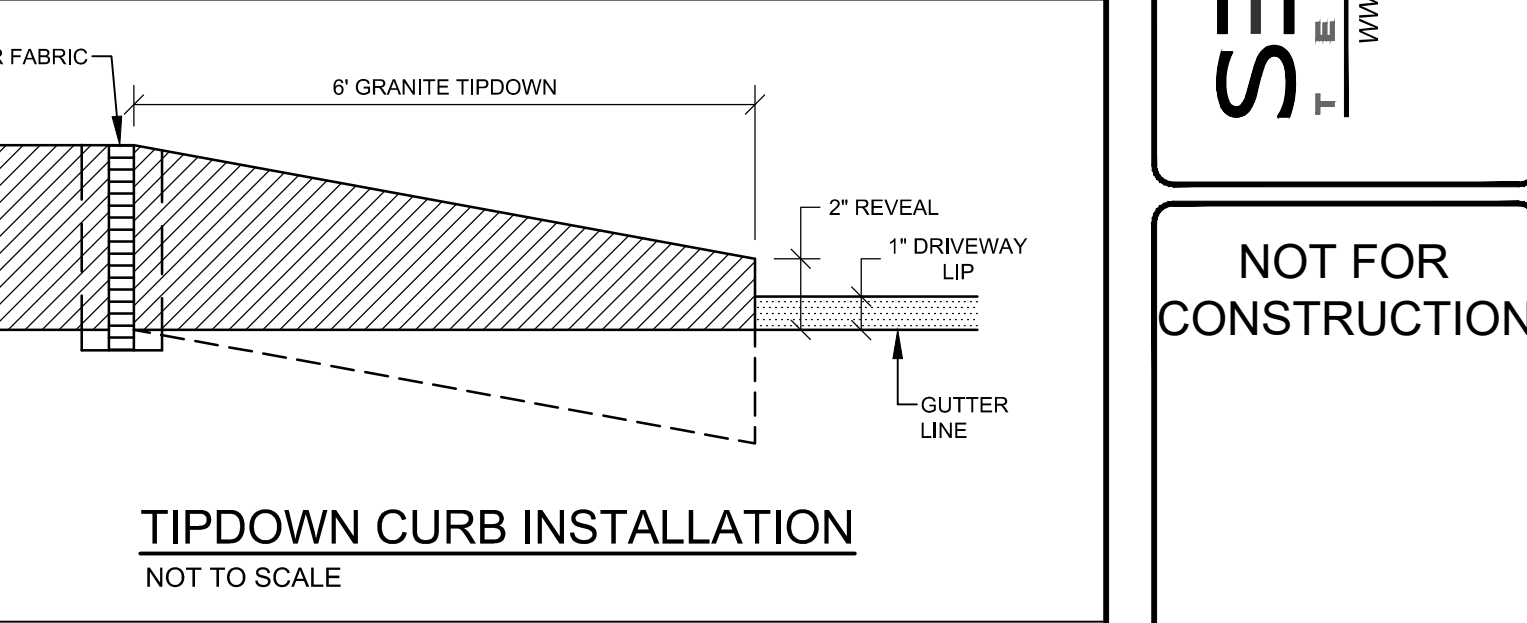
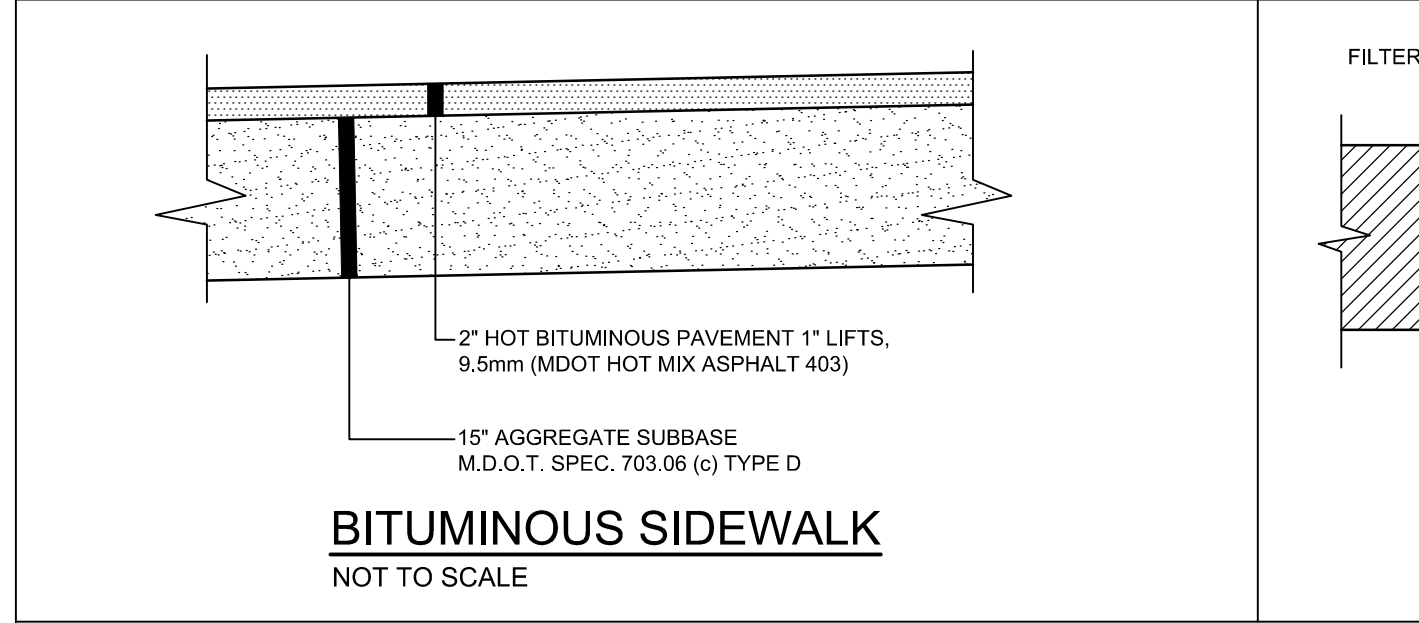
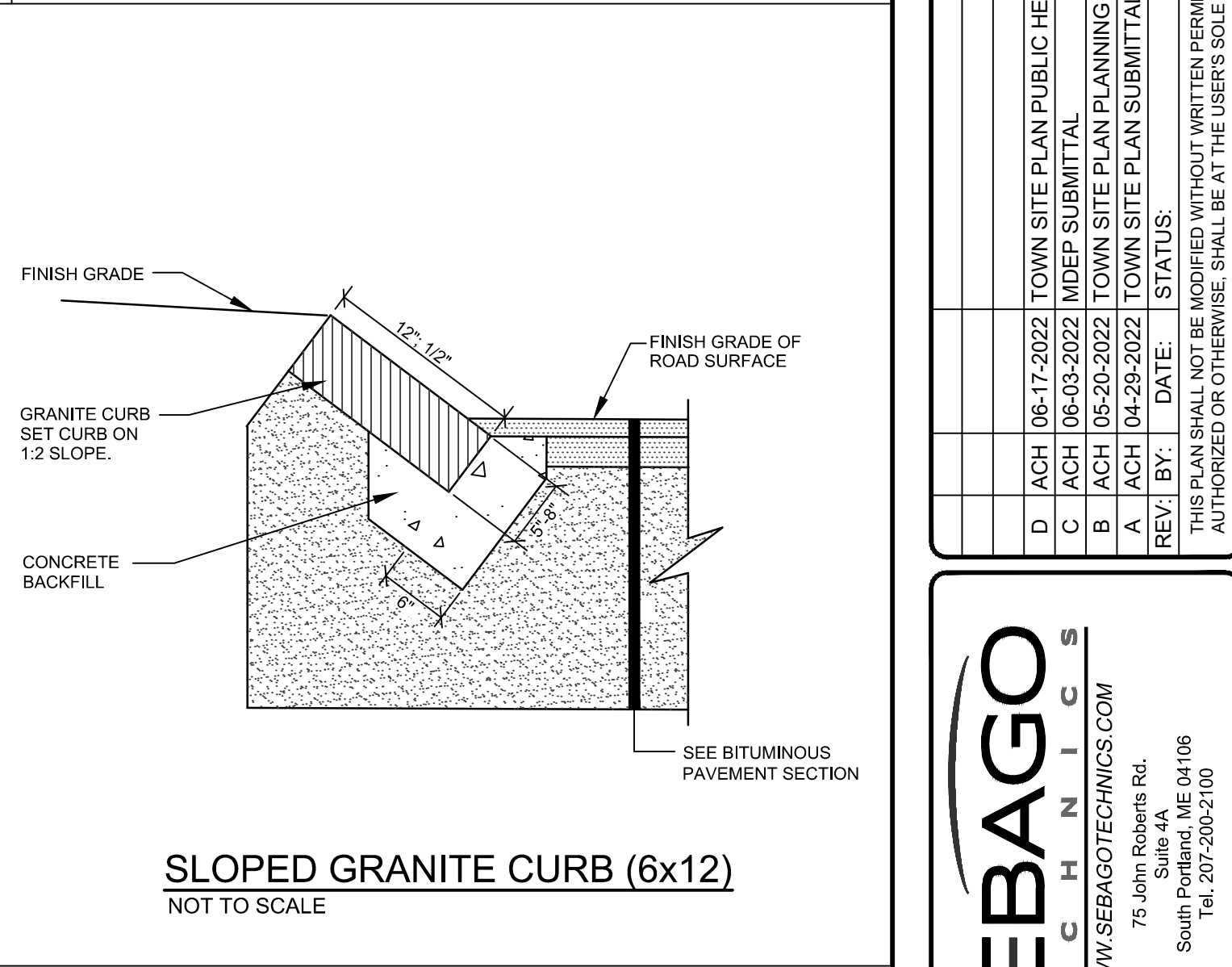
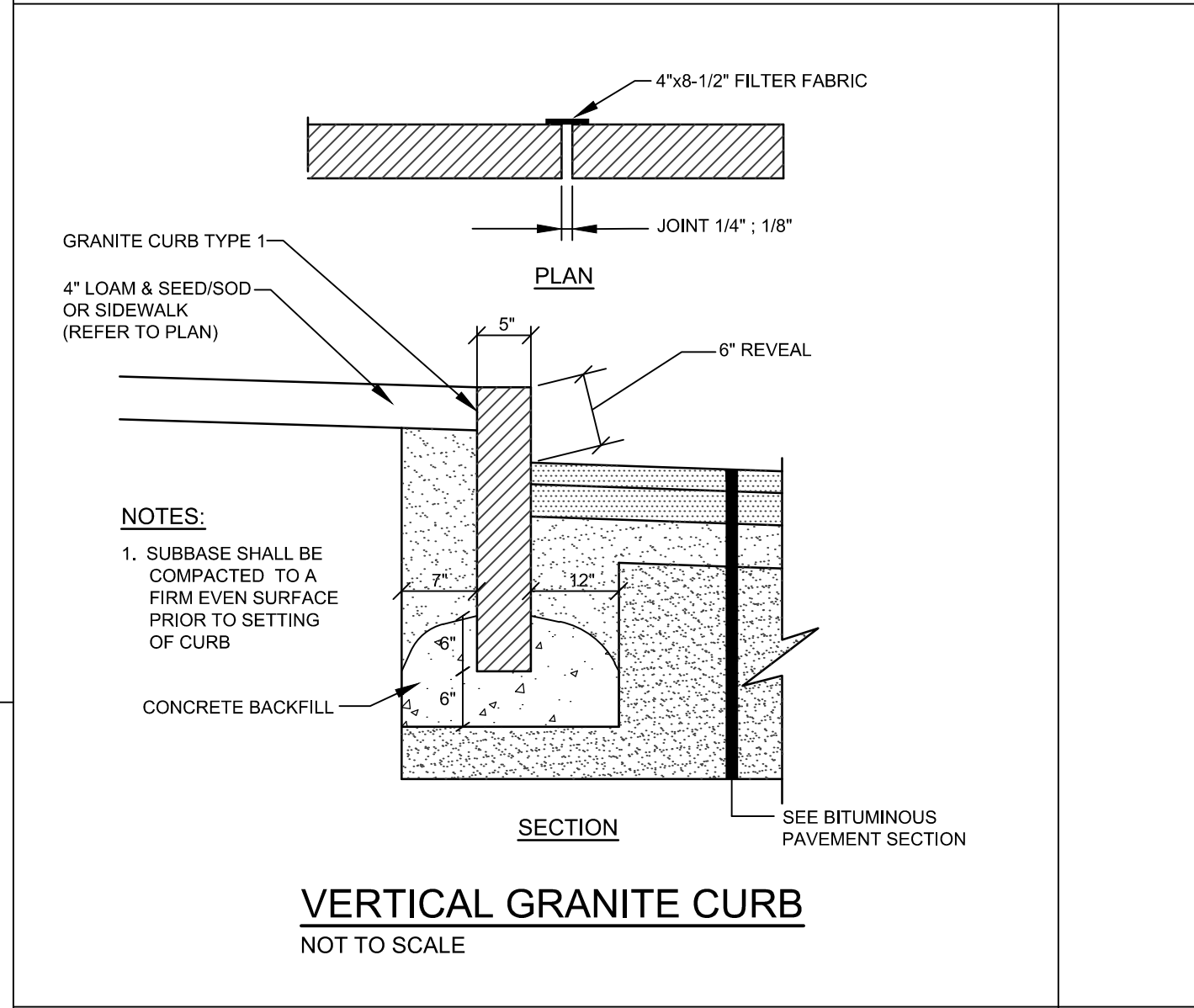
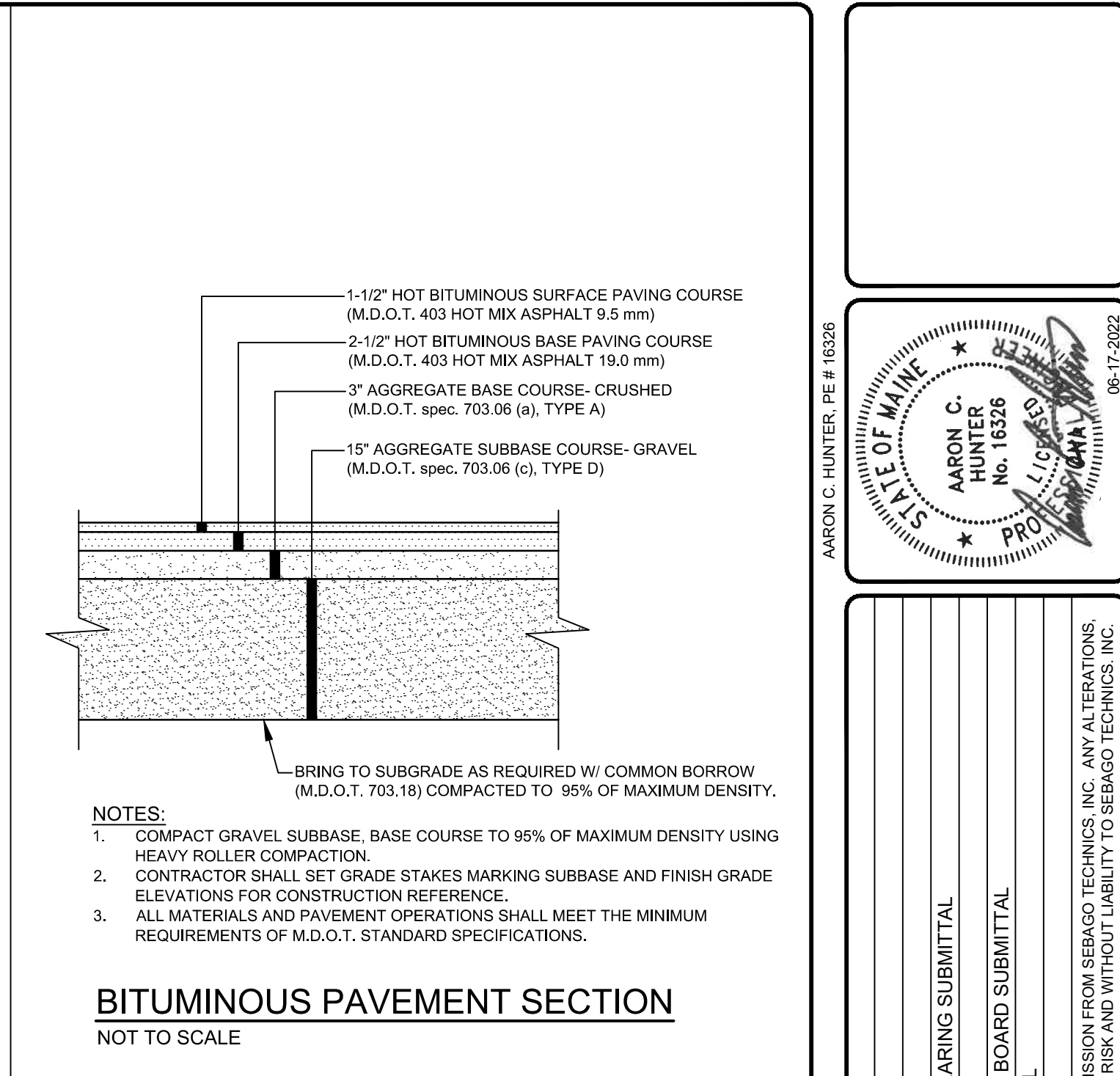
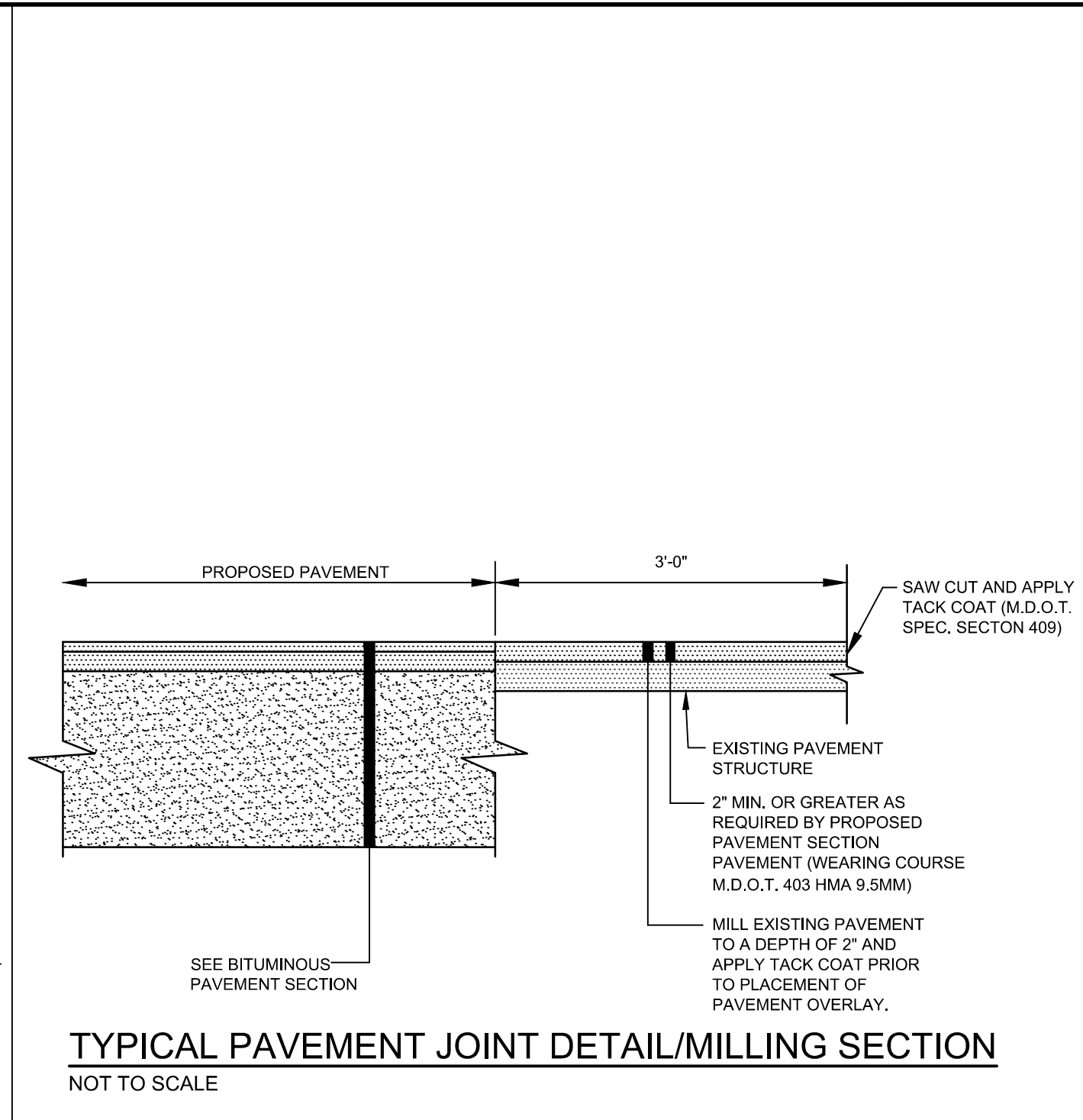
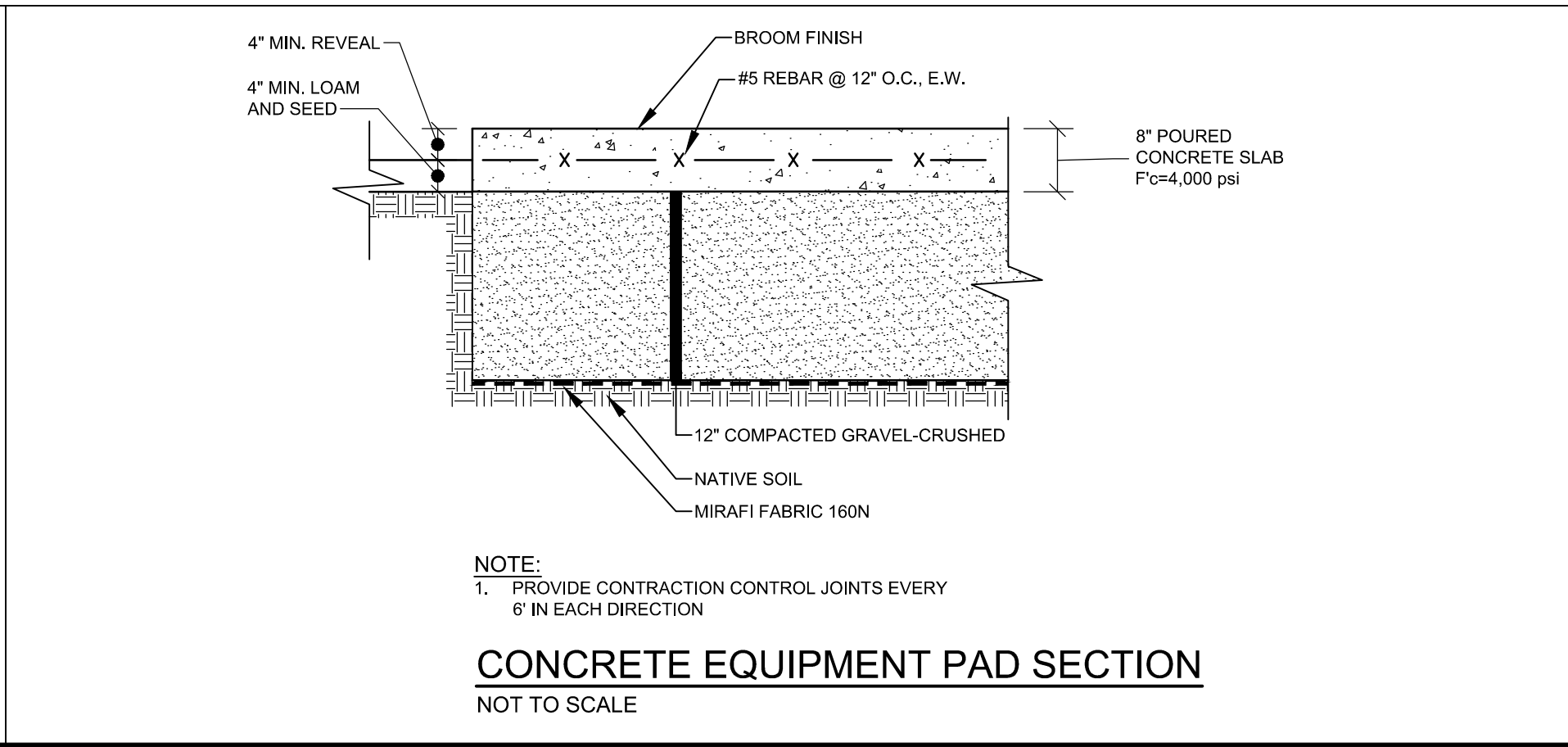
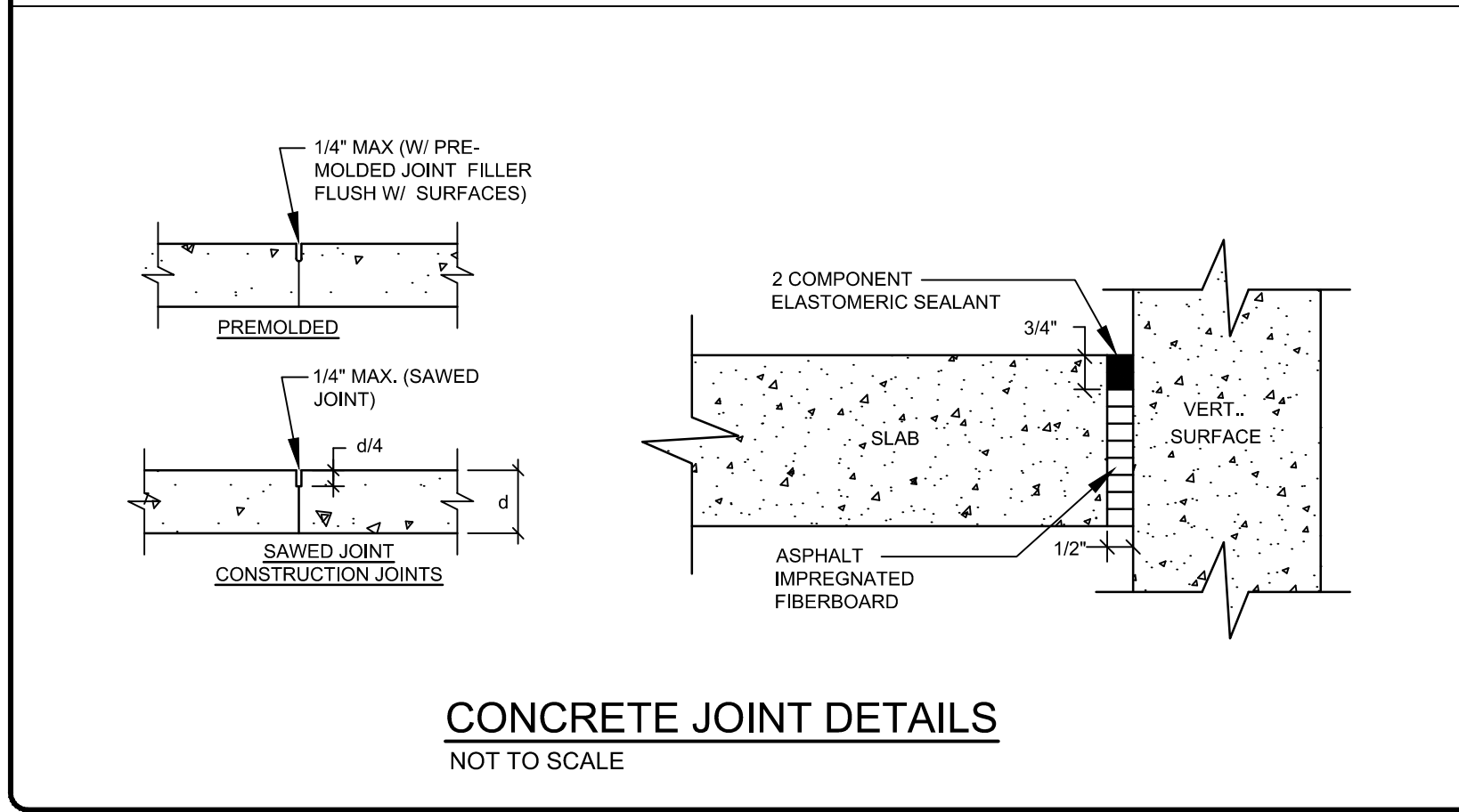
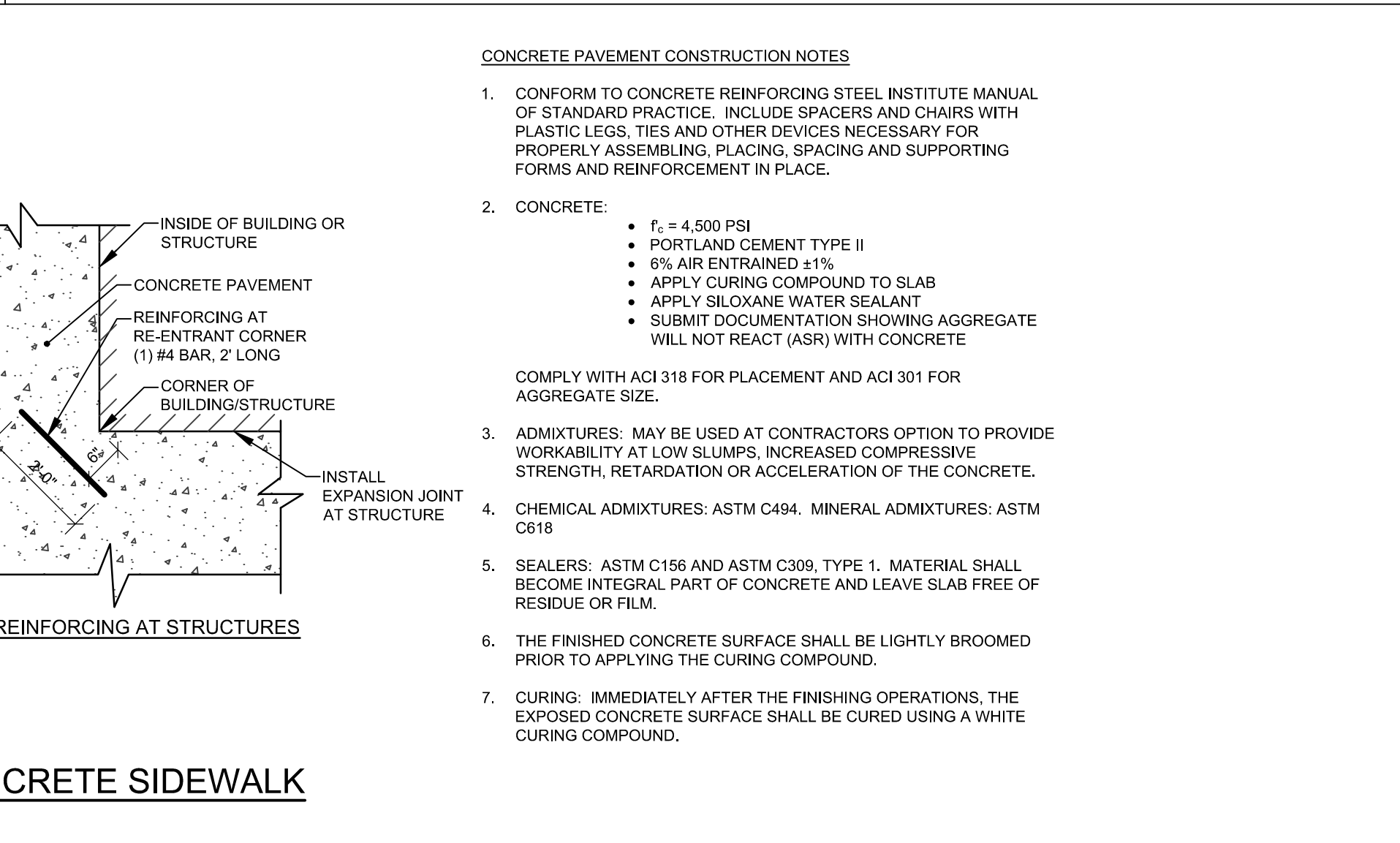
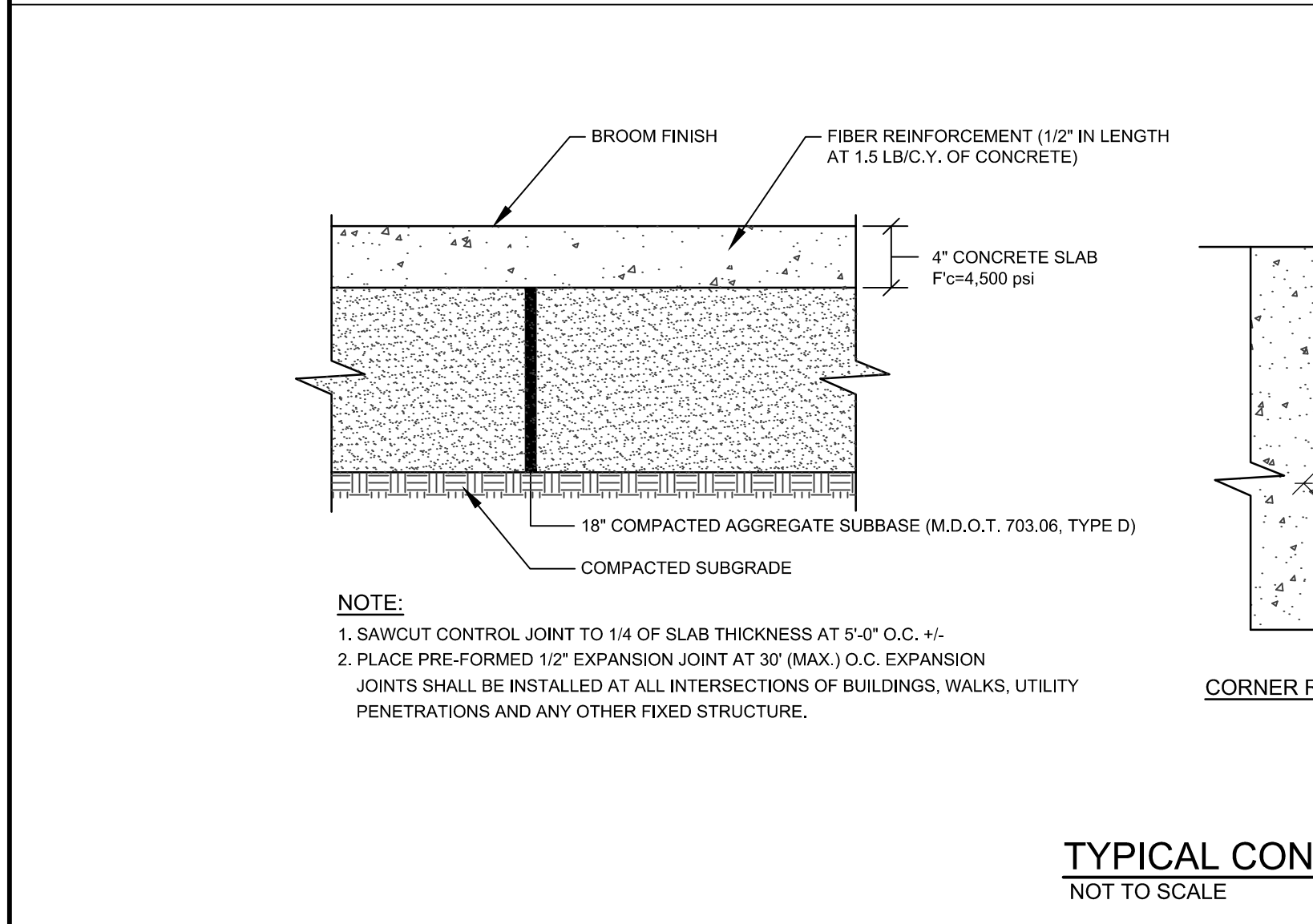
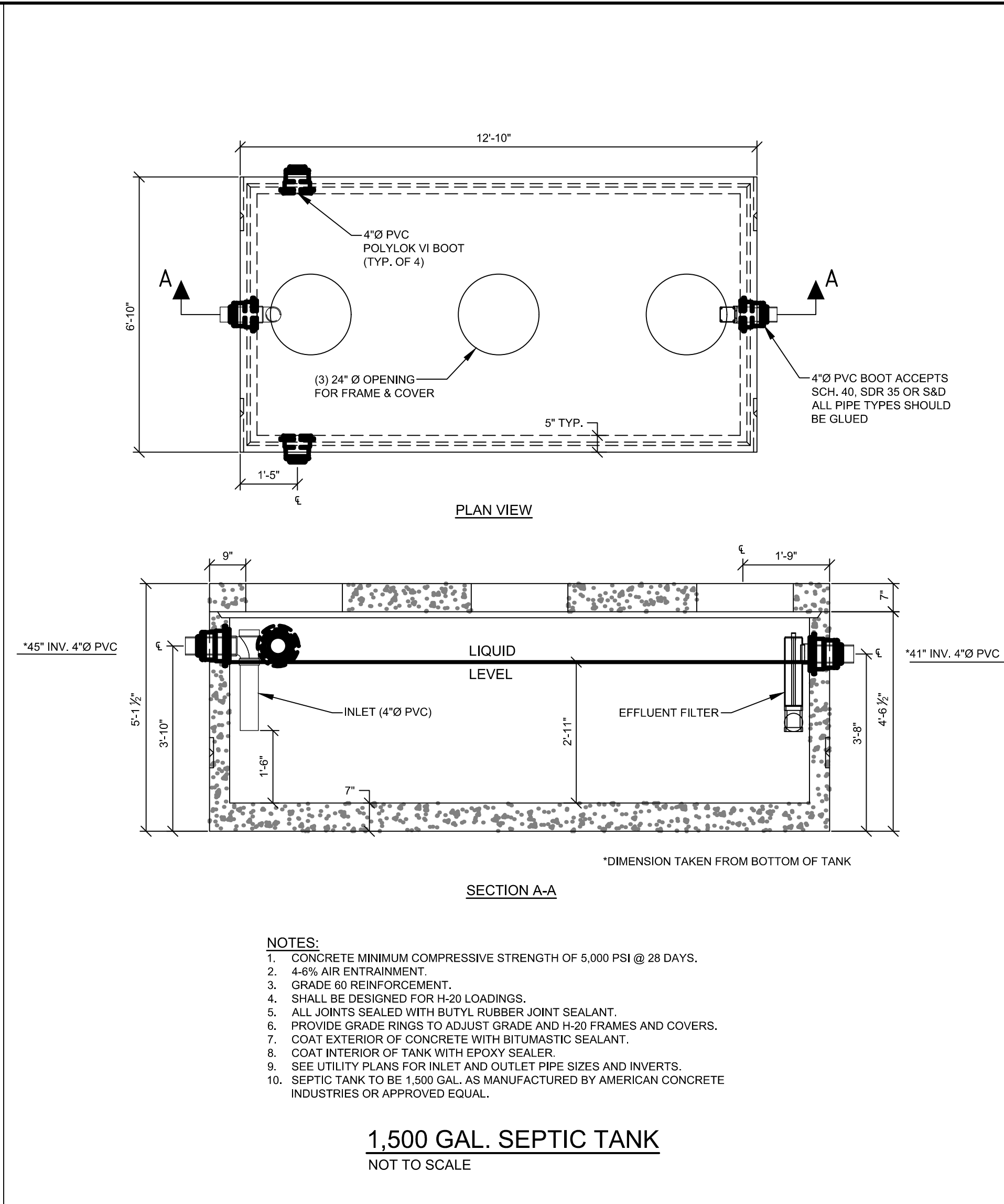
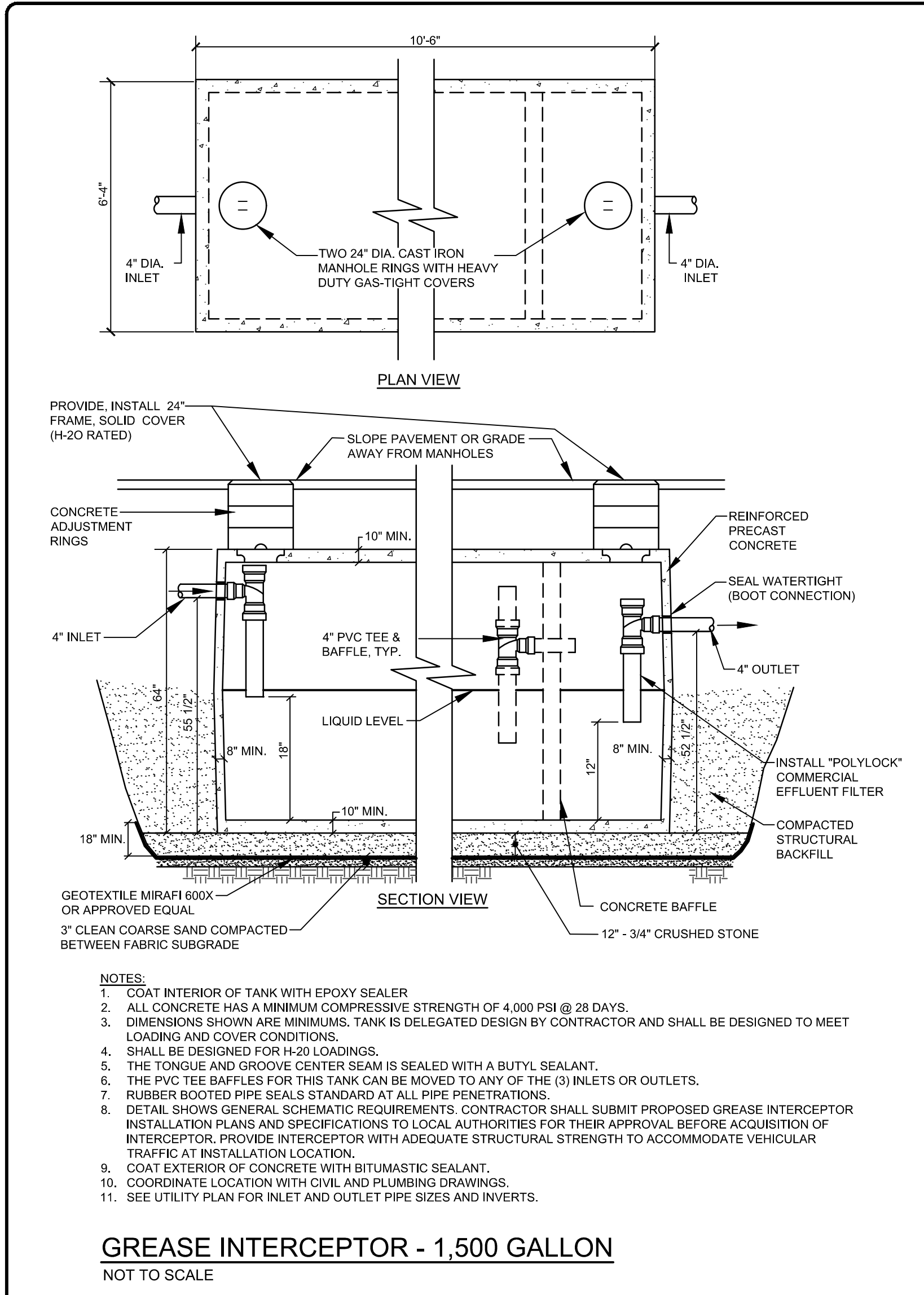
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75 John Roberts Rd.  
Suite 4A  
South Portland, ME 04106  
Tel. 207-200-2100

NOT FOR  
CONSTRUCTION

**DETAILS**  
OF: **WATERBORO CROSSING**  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: **DELPHI HOLDINGS X, LLC**  
476 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	NONE
PROJECT	16477

SHEET 16 OF 20



1647D.dwg, TAB 04

DESIGNED ACH  
DRAWN ACH  
CHECKED CAB  
DATE 04-29-2022  
SCALE NONE  
PROJECT 16477

SHEET 17 OF 20

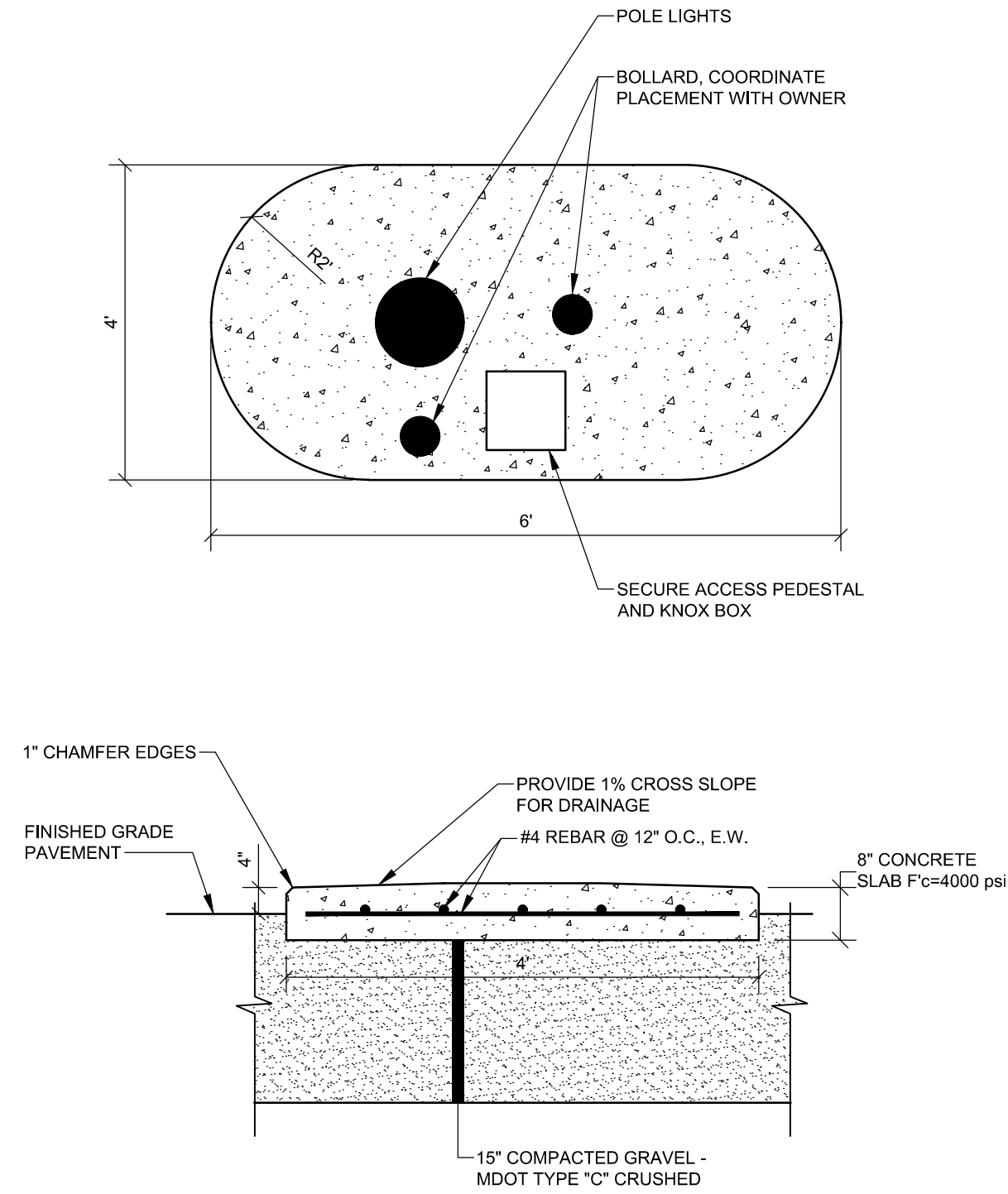
NOT FOR CONSTRUCTION

DETAILS OF:  
WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR:  
DELPHI HOLDINGS X, LLC  
478 ALFRED STREET  
BIDDEFORD, ME 04005

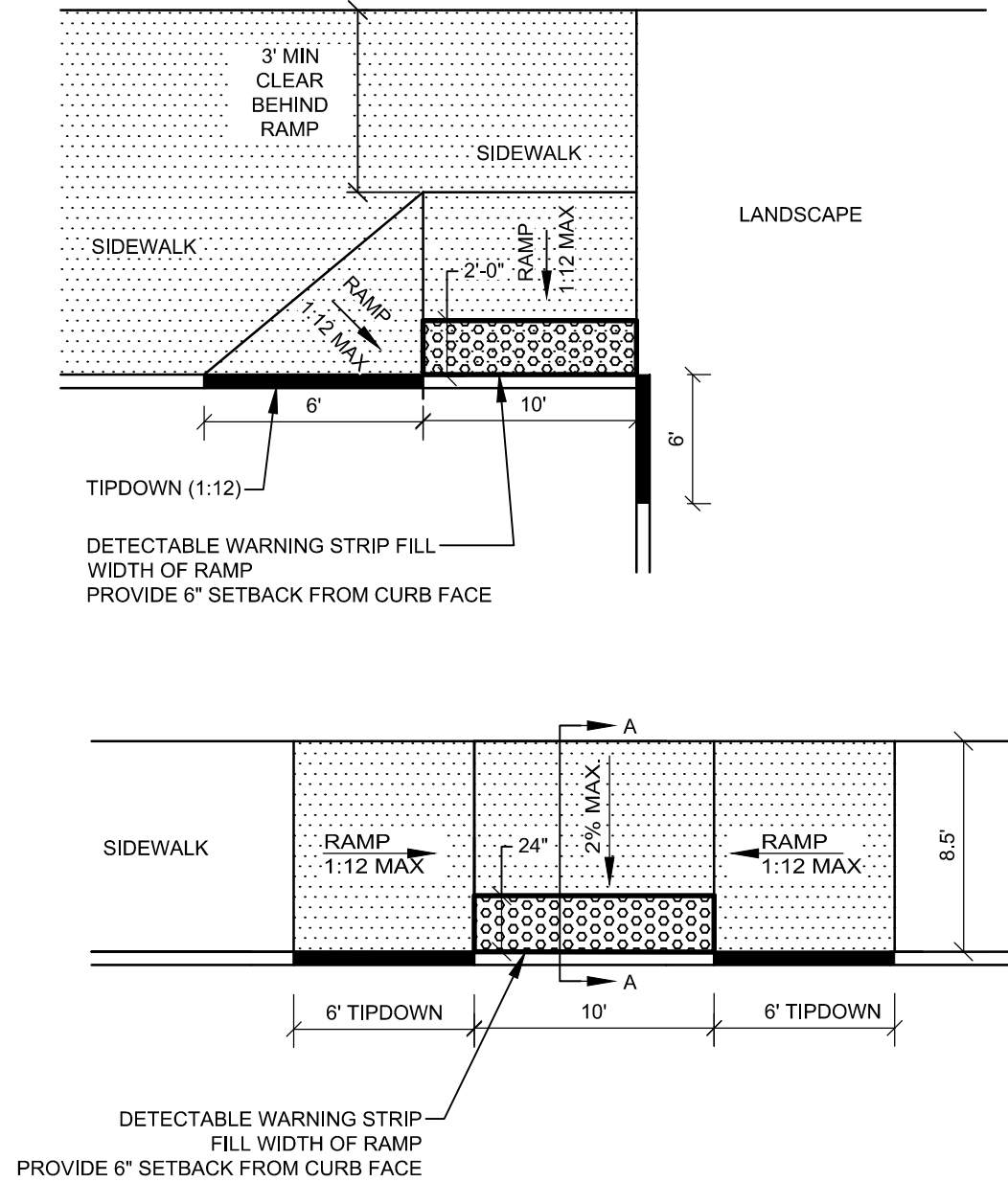
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TECHNICS  
WWW.SEBAGOTECHNICS.COM  
75 John Roberts Rd.  
Sullivan, ME 04106  
South Portland, ME 04106  
Tel. 207-200-2100

TOWN SITE PLAN PUBLIC HEARING SUBMITTAL  
MDP SUBMITTAL  
TOWN SITE PLAN PLANNING BOARD SUBMITTAL  
TOWN SITE PLAN SUBMITTAL  
STATUS: DATE: REV: BY: DATE: TOWN SITE PLAN SUBMITTAL

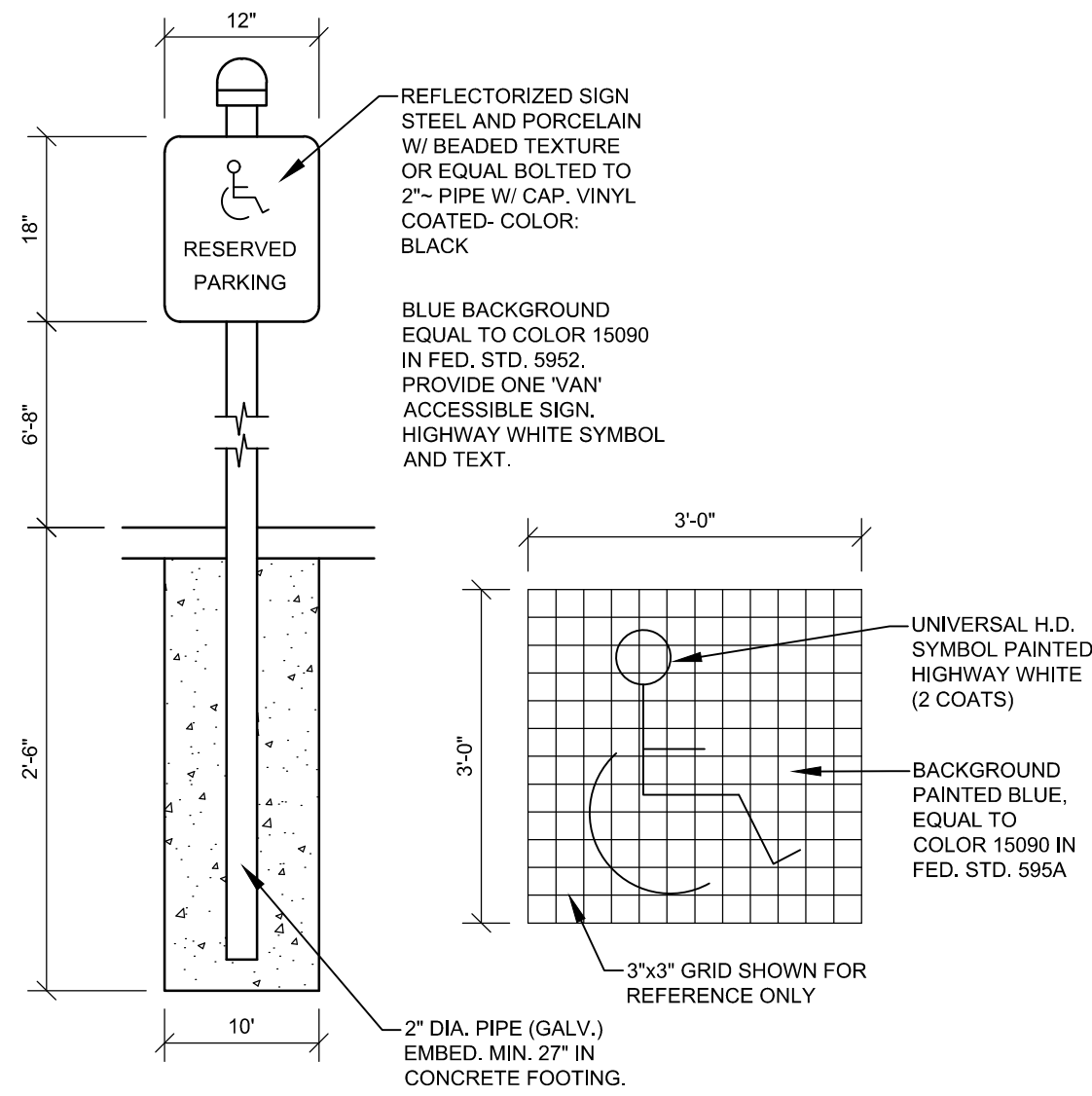
AARON C. HUNTER, PE # 16326  
STATE OF MAINE  
PROFESSIONAL ENGINEER  
06-17-2022



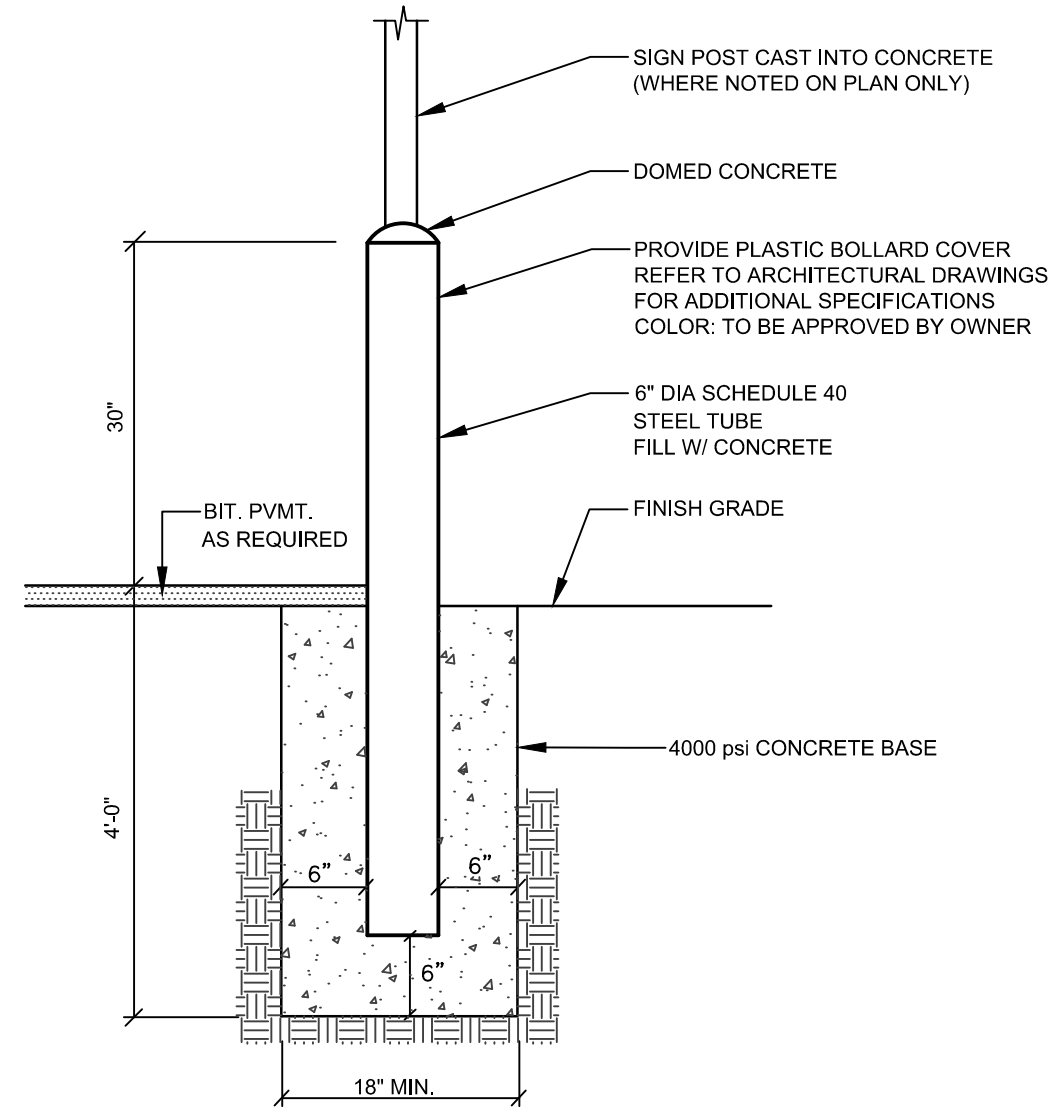
**RAISED CONCRETE ISLAND**  
NOT TO SCALE



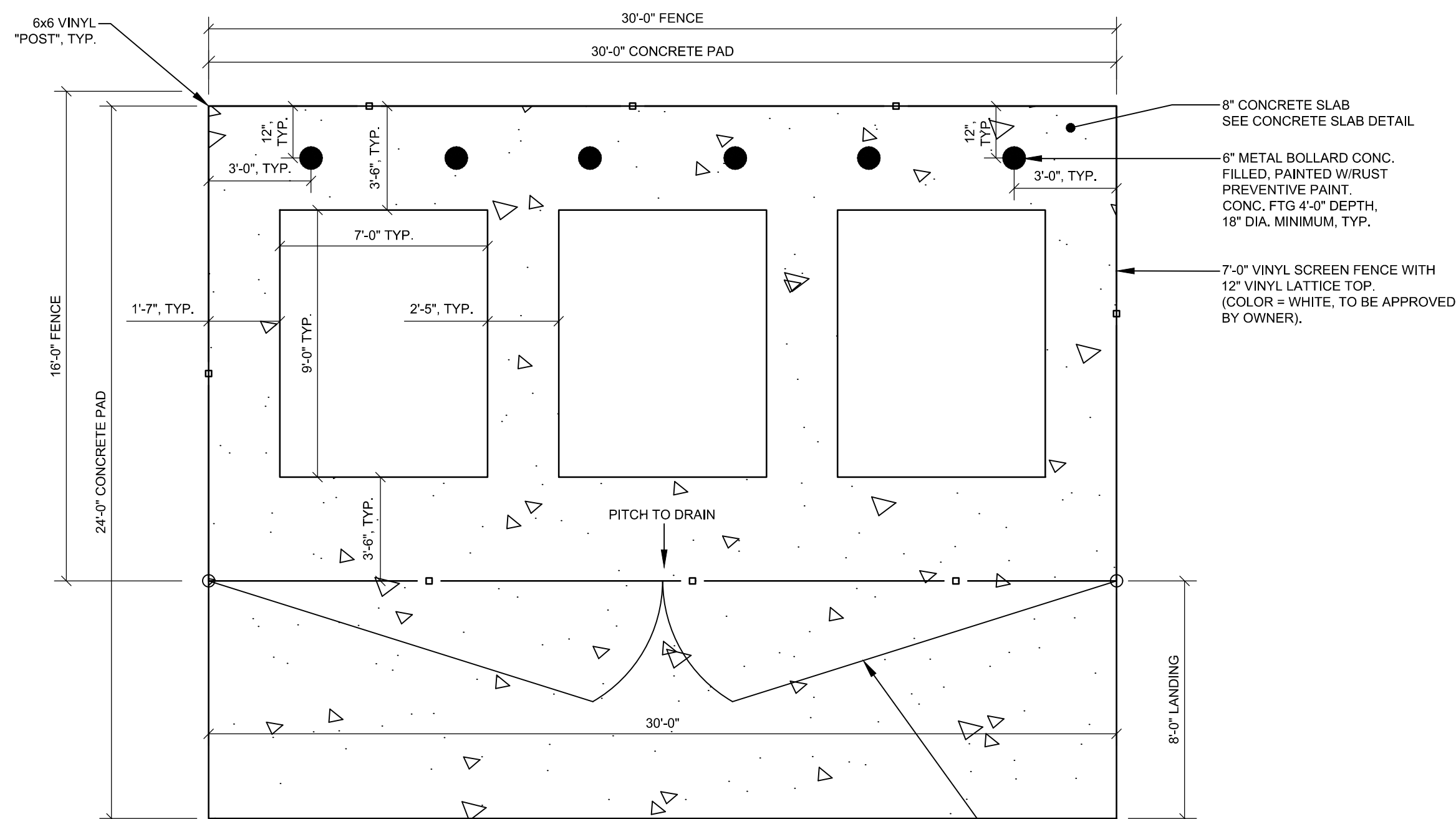
**ADA ACCESSIBLE CURB RAMPs**  
NOT TO SCALE



**ADA ACCESSIBLE SIGNS**  
NOT TO SCALE

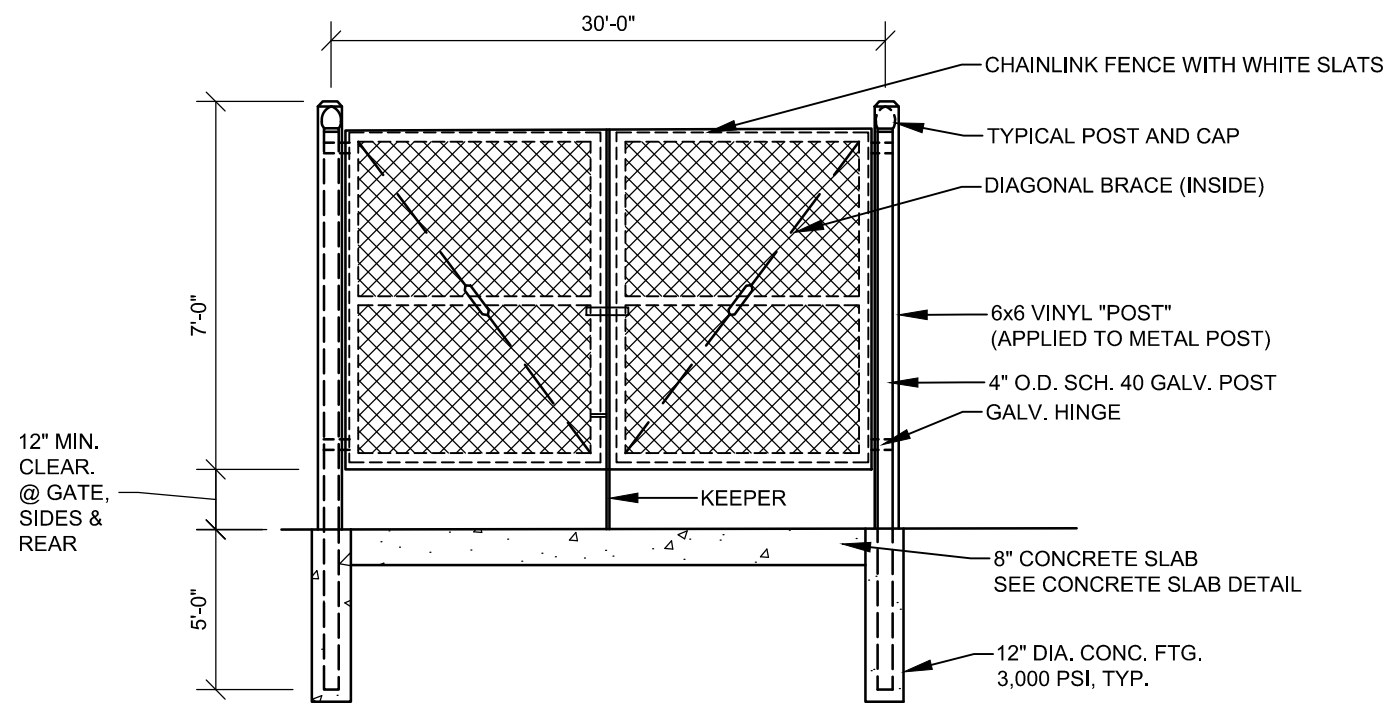


**METAL BOLLARD**  
NOT TO SCALE



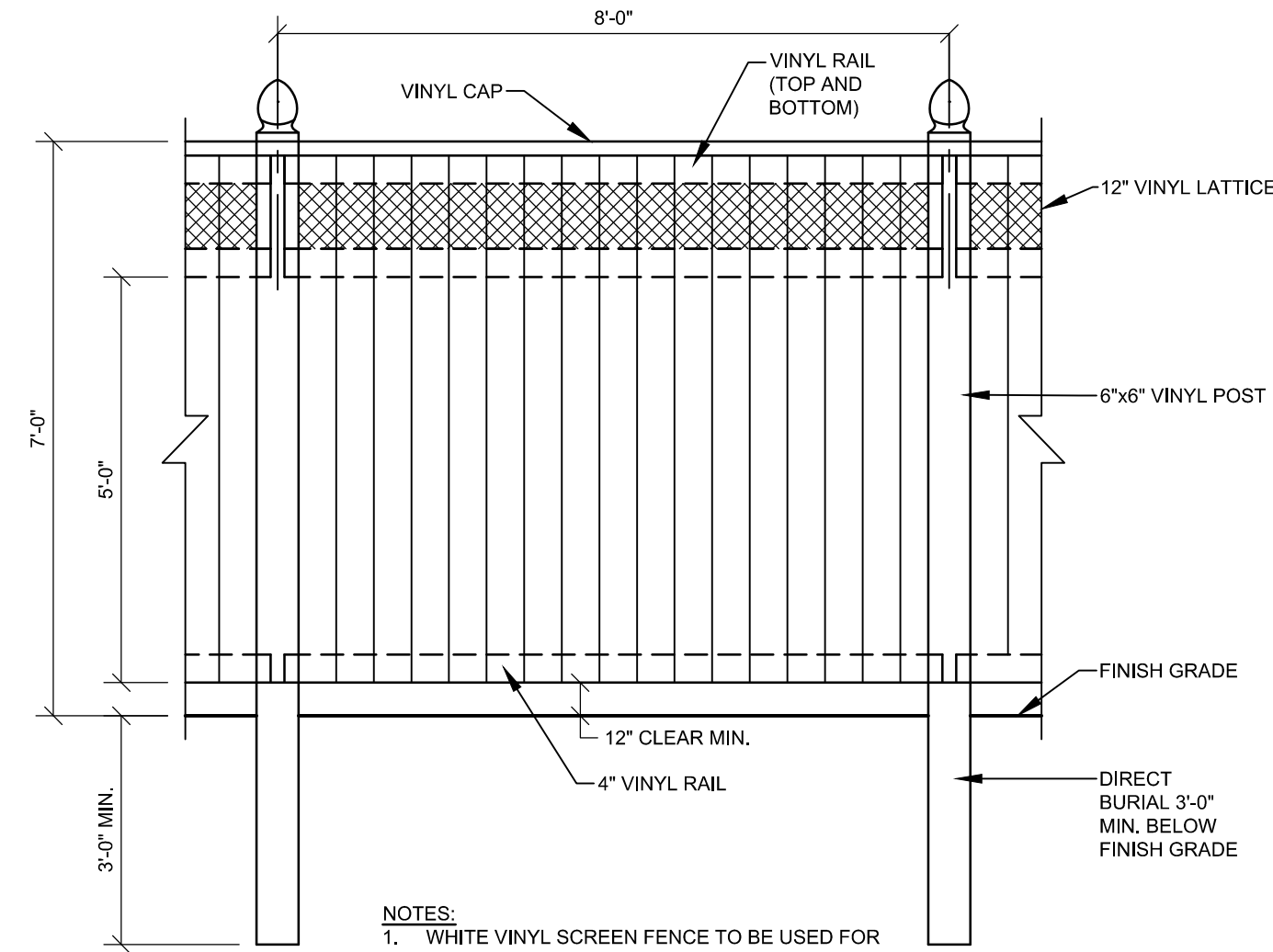
- NOTES:
1. HEIGHT OF FENCE SHALL BE 7 FEET.
  2. 15' MINIMUM CLEAR OPENING FOR FENCE FOR EACH DUMPSTER.
  3. GATES TO OPEN A MINIMUM 120 DEGREES.
  4. REFER TO CHAIN LINK GATE WITH WHITE SLATS AND WHITE VINYL SCREEN FENCE DETAILS FOR ADDITIONAL INFORMATION.

**DUMPSTER ENCLOSURE**  
NOT TO SCALE



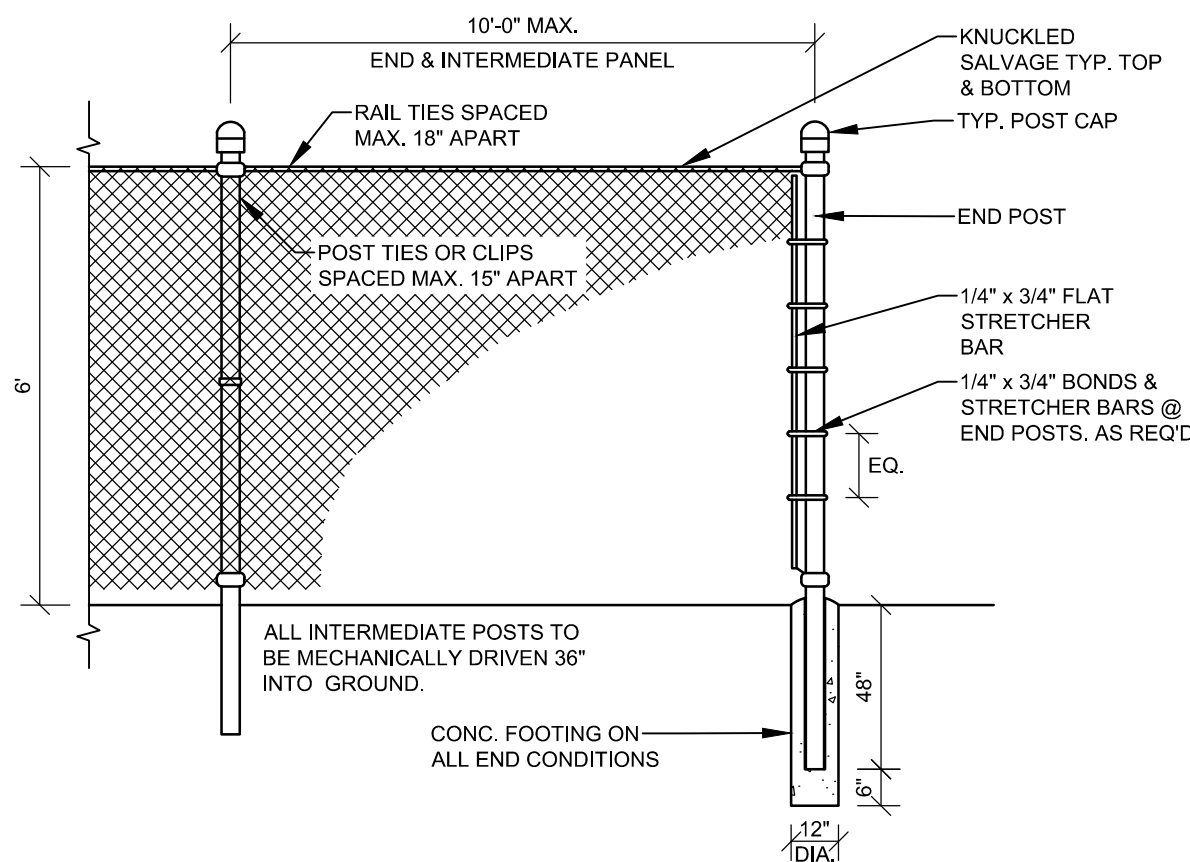
- NOTES:
1. CHAIN LINK GATES TO HAVE WHITE SLATS INSERTED.
  2. SUBMIT SHOP DRAWINGS FOR OWNER'S/ENGINEER'S APPROVAL.

**CHAIN LINK DOUBLE SWING GATE WITH WHITE SLATS**  
NOT TO SCALE



- NOTES:
1. WHITE VINYL SCREEN FENCE TO BE USED FOR SIDE/REAR DUMPSTER ENCLOSURE FENCE.

**WHITE VINYL SCREEN FENCE**  
NOT TO SCALE



- NOTES:
1. END POST: NOMINAL 3\"/>

**CHAIN LINK FENCE**  
NOT TO SCALE

AARON C. HUNTER, PE # 16326



REV.	BY	DATE	STATUS
D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL
C	ACH	06-03-2022	MDEP SUBMITTAL
B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL
A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL

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**NOT FOR CONSTRUCTION**

**DETAILS**  
OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	NONE
PROJECT	16477

**SHEET 18 OF 20**

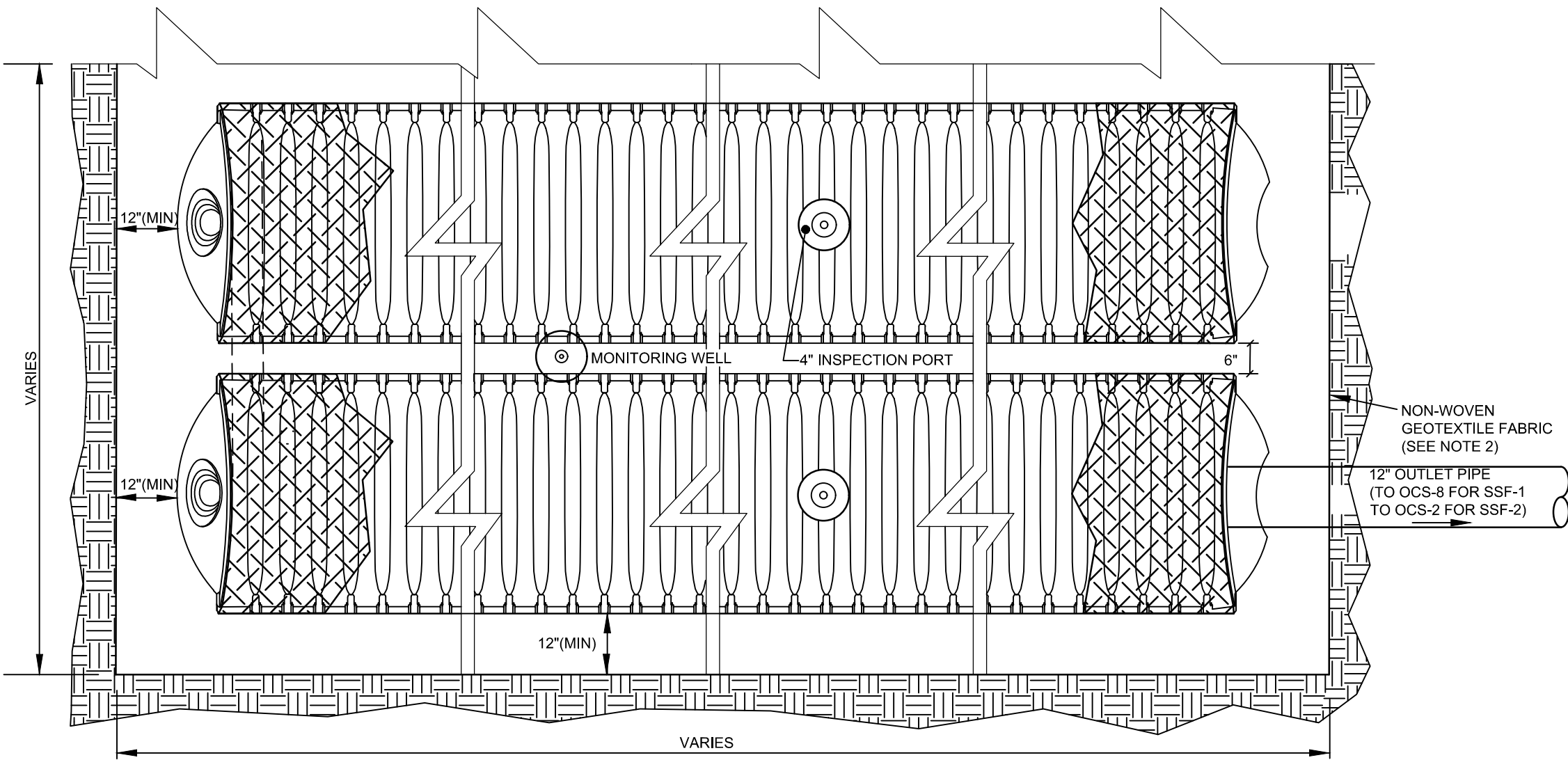
16477D.dwg, TAB 05

SUBSURFACE SAND FILTER NOTES:

1. THE STORMWATER CHAMBER SHALL BE A STORMTECH SC-740 AND SC-310 OR EQUIVALENT SUBSURFACE STORAGE CHAMBER APPROVED BY THE ENGINEER.
2. THE ENTIRE SUBSURFACE SYSTEM, INCLUDING THE CRUSHED STONE STORAGE VOLUME, AND THE FILTER MEDIA SHALL BE WRAPPED IN A NON-WOVEN GEOTEXTILE FABRIC (MIRAFI 160N OR EQUIVALENT).
3. TWO STRIPS OF WOVEN GEOTEXTILE SHALL BE INSTALLED BETWEEN THE BOTTOM OF THE ISOLATOR ROW CHAMBER AND ITS STONE FOUNDATION. THIS FABRIC TRAPS SEDIMENTS AND PROTECTS THE UNDERLYING CRUSHED STONE. A SECOND STRIP OF NON-WOVEN AASHTO M288 CLASS 2 GEOTEXTILE (MIRAFI FW 404 OR EQUIVALENT) SHALL BE DRAPED OVER THE ENTIRE LENGTH OF THE CHAMBERS. THIS FABRIC WILL ALSO TRAP SEDIMENTS AND PROVIDE SEPARATION BETWEEN THE CHAMBERS AND SURROUNDING STONE.
4. THE EMBEDMENT STONE SURROUNDING THE CHAMBERS SHALL BE A WASHED, ANGULAR STONE WITH THE MAJORITY OF PARTICLES BETWEEN 3/4 INCH AND 2 INCH. THE BOTTOM 6 INCH LAYER OF STONE THAT ACTS AS THE FOUNDATION BELOW THE CHAMBERS SHALL BE COMPACTED TO ACHIEVE A 95% STANDARD PROCTOR DENSITY.
5. THE SAND FILTER MATERIAL SHALL BE A UNIFORM MIX, FREE OF STONES LARGER THAN 2 INCHES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS. THE MATERIAL SHALL MEET THE SPECIFICATIONS FOR MDOT AGGREGATE SAND (MDOT #703.01). HOWEVER, THIS AGGREGATE SAND SHALL BE MIXED WITH LOAM TO ACHIEVE A MATERIAL WITH BETWEEN 8% AND 10% PASSING THE #200 SIEVE. THE LOAM USED IN THIS MIXTURE SHALL HAVE LESS THAN 2% CLAY CONTENT. THIS 8 INCH LAYER OF SAND FILTRATION MEDIA SHALL BE PLACED TO ACHIEVE A LEVEL OF COMPACTION BETWEEN 92% AND 95% STANDARD PROCTOR DENSITY.
6. SEE PLANS FOR INSPECTION PORT LOCATIONS.

CONSTRUCTION OVERSIGHT NOTES FOR SUBSURFACE SAND FILTER:

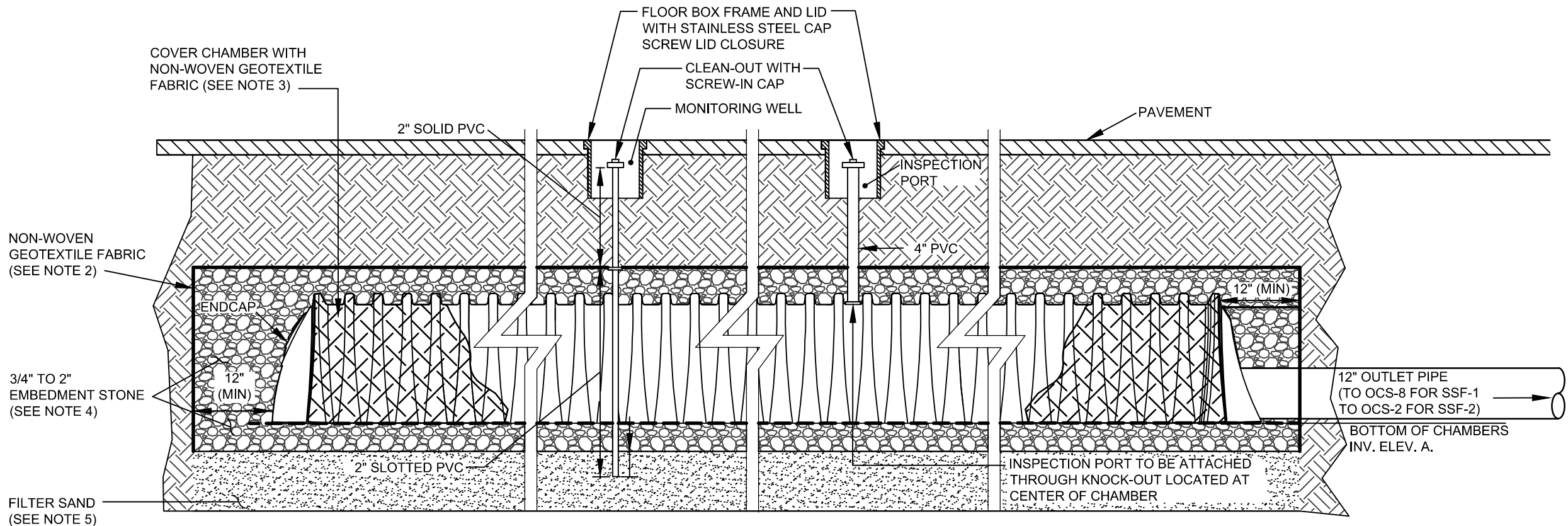
1. INSPECTIONS BY A PROFESSIONAL ENGINEER SHALL CONSIST OF WEEKLY VISITS TO THE SITE TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE PROPOSED SUBSURFACE CHAMBERS AND ITS FILTER COURSE MATERIAL. TO BE BUILT ON THE SITE. INSPECTIONS SHALL CONSIST OF AN APPROPRIATE NUMBER OF VISITS TO THE SITE TO INSPECT THE INSTALLATION OF THE SUBGRADE, FILTER BED MATERIAL PLACEMENT, INSTALLATION OF EMBEDMENT STONE, ISOLATOR ROW AND CHAMBER, SURROUNDING STONE, FABRIC PLACEMENT AND STORMWATER OVERFLOW BYPASS CONSTRUCTION FROM INITIAL GROUND DISTURBANCE TO BACKFILL OVER CHAMBERS.



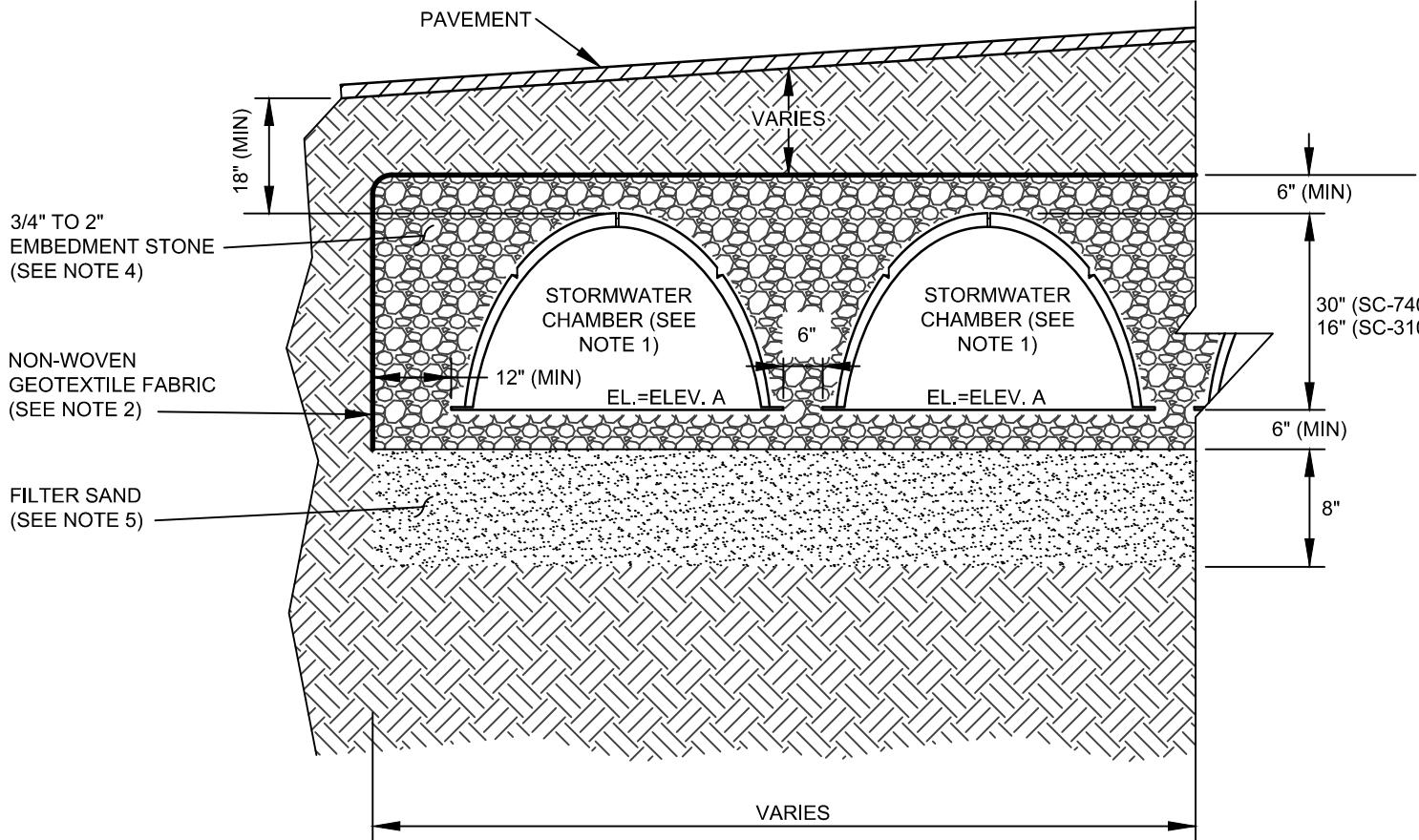
SUBSURFACE SAND FILTER PLAN VIEW

SUBSURFACE SAND FILTER CHAMBER DATA

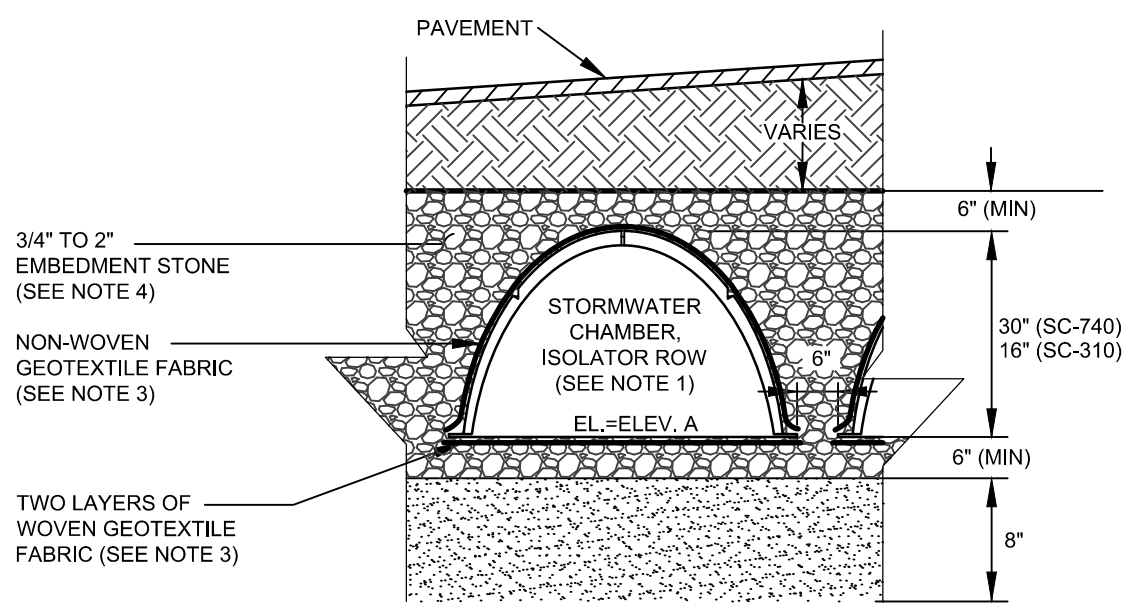
SUBSURFACE SAND FILTER CHAMBER DATA				
SYSTEM NAME	CHAMBER TYPE	ELEV. A	SURFACE AREA	TOTAL CHAMBERS
SSF-1	SC-740	294.75	1178 SF	30 CHAMBERS
SSF-2	SC-310	298.17	3500 SF	136 CHAMBERS



SUBSURFACE SAND FILTER ELEVATION VIEW

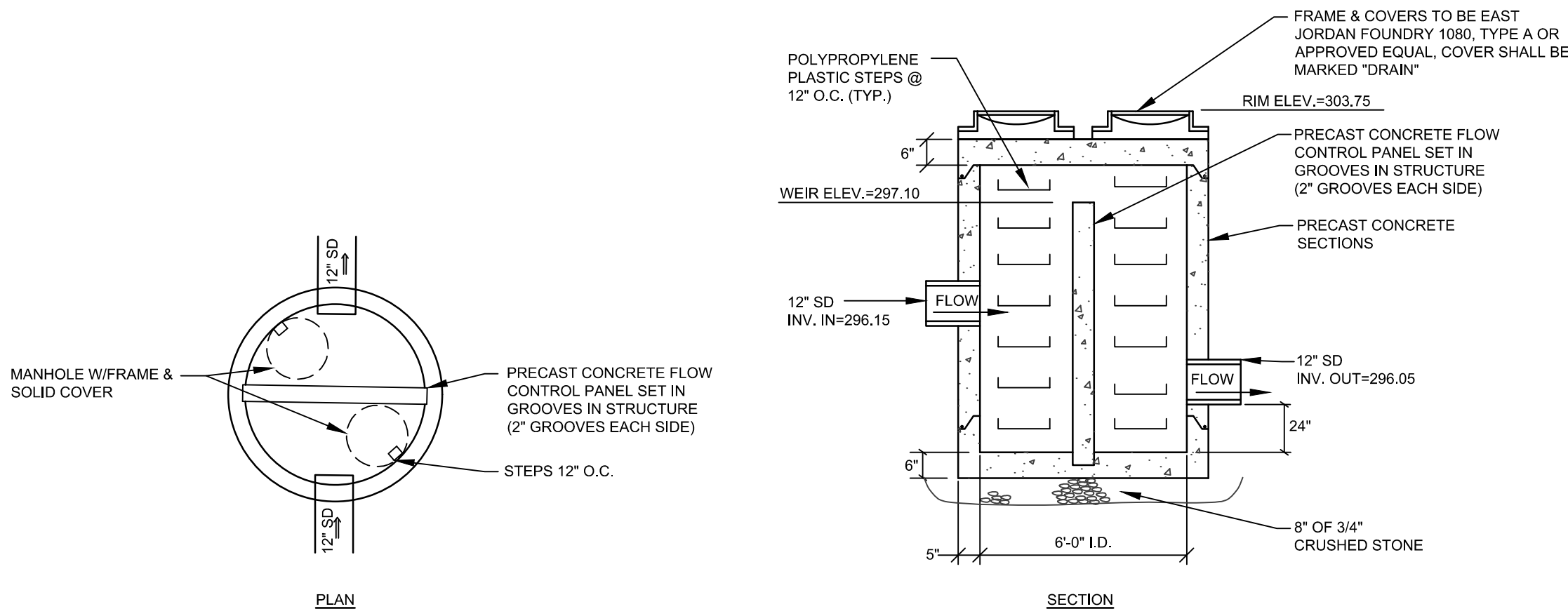


SUBSURFACE SAND FILTER SECTION



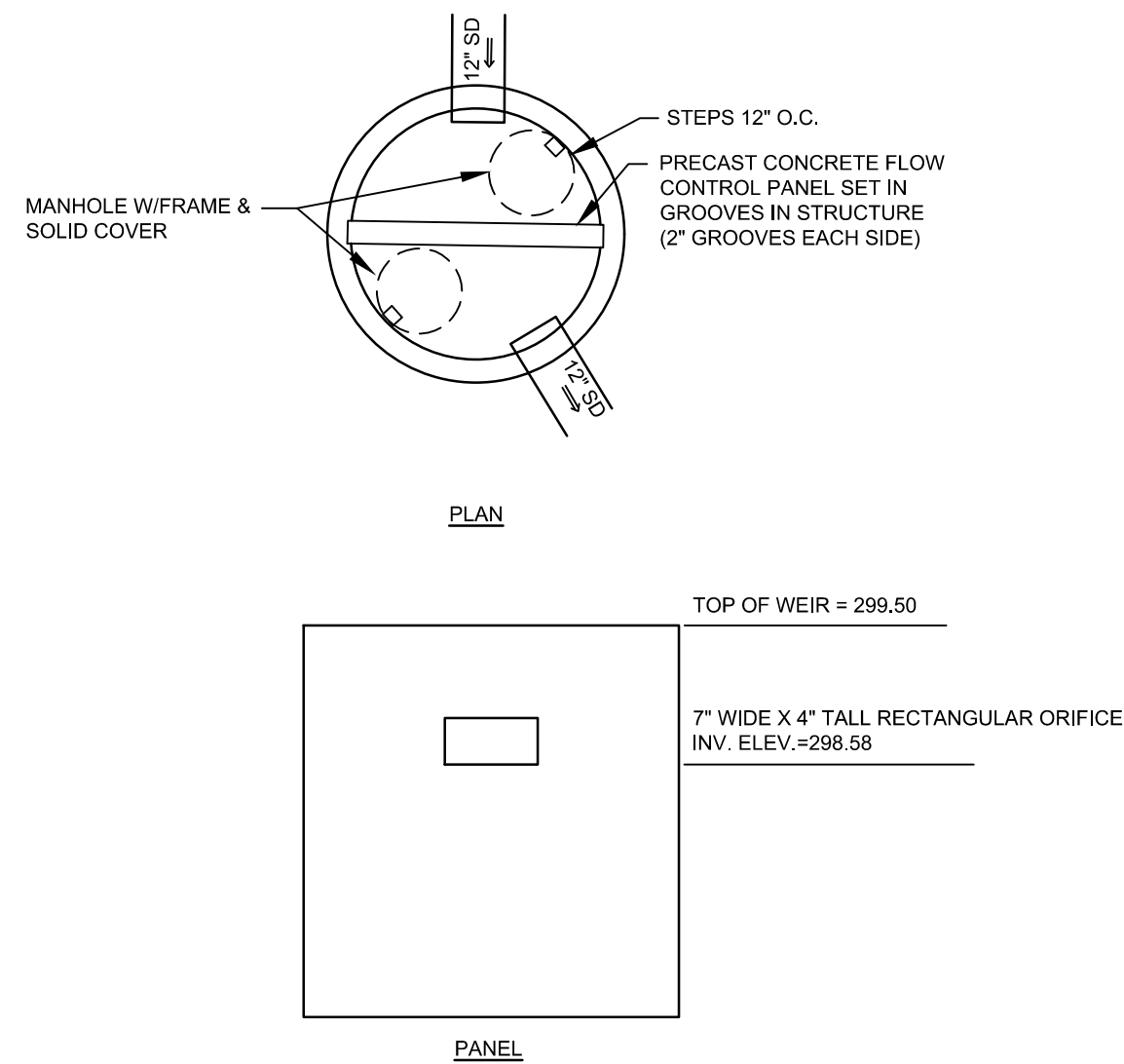
SUBSURFACE SAND FILTER  
ISOLATOR ROW  
NOT TO SCALE

SUBSURFACE SAND FILTER (SSF-1 & SSF-2)  
NOT TO SCALE



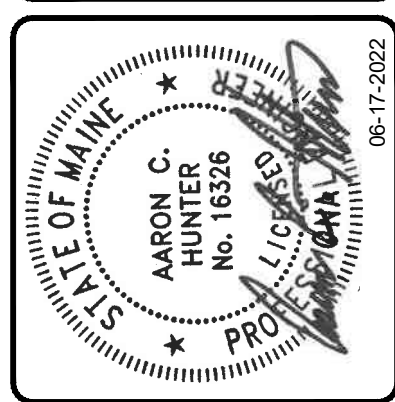
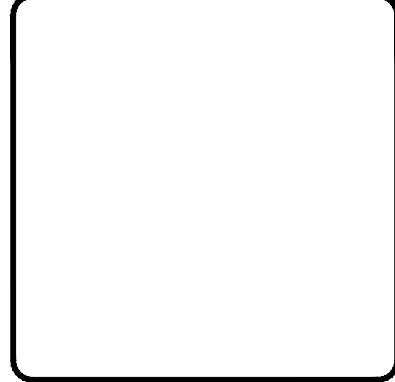
- NOTES:
1. SUBMIT SHOP DRAWINGS FOR OWNER/ENGINEER APPROVAL.
  2. STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.

OUTLET CONTROL STRUCTURE FOR SSF-1 (OCS-8)  
NOT TO SCALE



- NOTES:
1. SUBMIT SHOP DRAWINGS FOR OWNER/ENGINEER APPROVAL.
  2. STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.

OUTLET CONTROL STRUCTURE FOR SSF-2 (OCS-2)  
NOT TO SCALE



REV	BY	DATE	STATUS	DESCRIPTION
D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL	
C	ACH	06-03-2022	MDP SUBMITTAL	
B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL	
A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL	

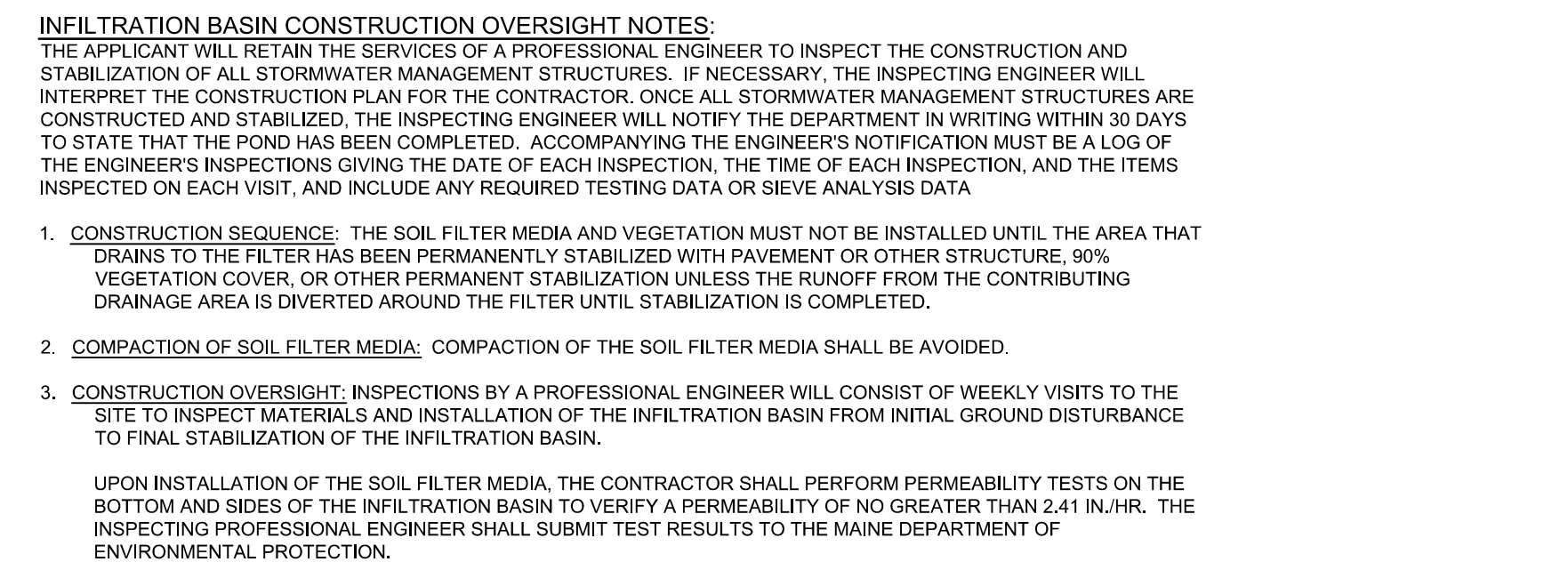
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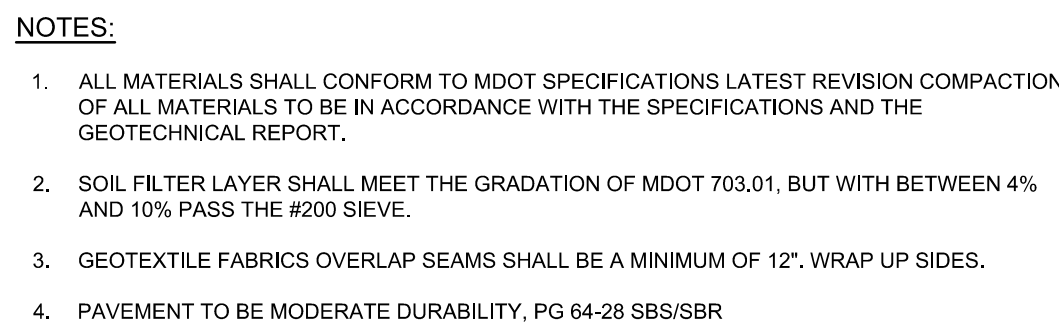
NOT FOR  
CONSTRUCTION

DETAILS  
OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

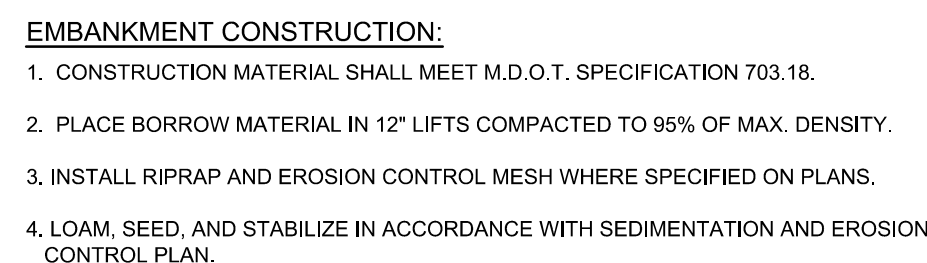
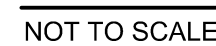
DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	NONE
PROJECT	16477



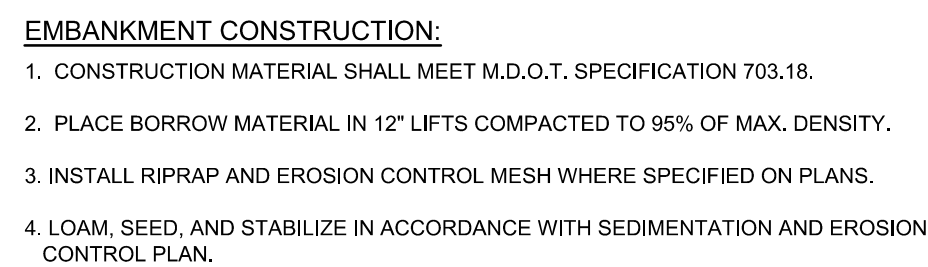
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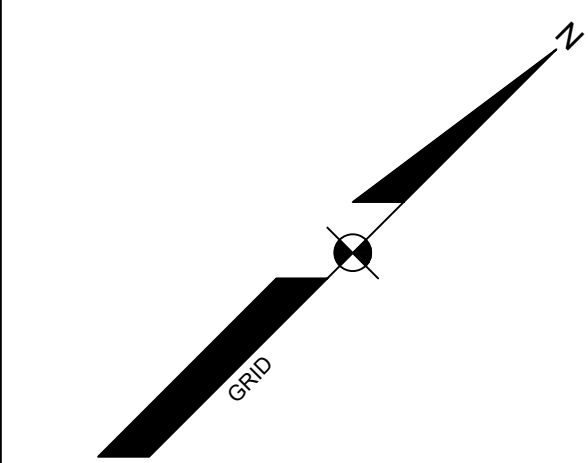
NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



EXISTING CONDITIONS LEGEND

- SUBCATCHMENT BOUNDARY  
A — B TIME OF CONCENTRATION  
○ — ○ REACH  
#### SUBCATCHMENT LABEL  
#### REACH  
#### POINT OF ANALYSIS  
▲ STORMWATER TREATMENT/DETENTION POND  
... HSG # SOILS BOUNDARY  
... HSG #

TEST PIT SUMMARY TABLE

TEST PIT #	EXISTING GROUND ELEVATION	EXCAVATION DEPTH	SHGWT	BEDROCK
TP-1	300.30±	7.50	295.72±	NO
TP-2	301.30±	5.42	296.30±	NO
TP-3	301.55±	5.42	296.55±	NO
TP-4	301.25±	5.83	296.26±	NO
TP-5	297.10±	5.00	294.60±	NO
TP-6	294.50±	5.00	292.83±	NO
TP-7	297.90±	5.00	292.90±	NO
TP-8	297.95±	8.00	292.53±	NO
TP-9	298.35±	5.00	293.35±	NO
TP-10	291.25±	3.75	287.50±	NO

STORMWATER PEAK DISCHARGE SUMMARY TABLE

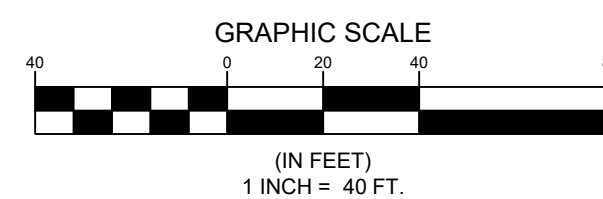
POINT OF ANALYSIS	2-YEAR STORM		10-YEAR STORM		25-YEAR STORM	
	PRE (CFS)	POST (CFS)	PRE (CFS)	POST (CFS)	PRE (CFS)	POST (CFS)
POA-1	1.3	1.3	2.6	2.6	4.7	4.6
POA-2	0.3	0.3	0.6	0.6	0.9	0.9

NOTE

THIS CLASS 'B' HIGH INTENSITY SOIL MAP CONFORMS TO THE GUIDELINES FOR MAINE CERTIFIED SOIL SCIENTISTS FOR SOIL IDENTIFICATION AND MAPPING, DATED MARCH 2009 FOR CLASS 'B' HIGH INTENSITY SOIL SURVEYS. THE SOIL MAP UNITS AS DEPICTED WERE IN PART INFLUENCED BY THE INTENDED USE FOR A PROPOSED COMMERCIAL DEVELOPMENT AND THE SOILS WHICH WERE NON-LIMITING FOR ONE USE MAY BE CONSIDERED LIMITING FOR ANOTHER USE. THEREFORE, THIS CLASS 'B' HIGH INTENSITY SOILS MAP MAY NOT BE ADEQUATE FOR ANOTHER USE. (REFER TO SOIL NARRATIVE REPORT DATED MARCH 18, 2022 AND SOIL PROFILE DESCRIPTIONS.)

SOIL TYPES

SYMBOL	SOIL TYPES	PHASE	HSG	DRAINAGE CLASS
AdA	ADAMS	SANDY LOAM	A	SOMEWHAT EXCESSIVELY DRAINED
AdB	ADAMS	SANDY LOAM	A	SOMEWHAT EXCESSIVELY DRAINED
ChA	CHOCORUA	MUCKY PEAT	D	VERY POORLY DRAINED
CrA	CROGHAN	SANDY LOAM	A	MODERATELY WELL DRAINED
CrB	CROGHAN	SANDY LOAM	A	MODERATELY WELL DRAINED
UA	URBAN LAND	SANDY LOAM	N/A	N/A



		D	ACH	06-17-2022	TOWN SITE PLAN PUBLIC HEARING SUBMITTAL
		C	ACH	06-03-2022	MDEP SUBMITTAL
		B	ACH	05-20-2022	TOWN SITE PLAN PLANNING BOARD SUBMITTAL
		A	ACH	04-29-2022	TOWN SITE PLAN SUBMITTAL
		REV	BY	DATE	STATUS
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**SEBAGO**  
TECHNICS  
WWW.SEBAGOTECHNICS.COM  
75 John Roberts Rd.  
Sullivan, ME 04106  
South Portland, ME 04106  
Tel. 207-260-2100

NOT FOR CONSTRUCTION

EXISTING CONDITIONS SWM PLAN  
OF: WATERBORO CROSSING  
SOKOKIS TRAIL (ROUTE 5)  
WATERBORO, ME 04030  
FOR: DELPHI HOLDINGS X, LLC  
476 ALFRED STREET  
BIDDEFORD, ME 04005

DESIGNED	ACH
DRAWN	ACH
CHECKED	CAB
DATE	04-29-2022
SCALE	1" = 40'
PROJECT	16477

SHEET 1 OF 1

AARON C. HUNTER PE # 16326

