

JORDAN BAY MARINA

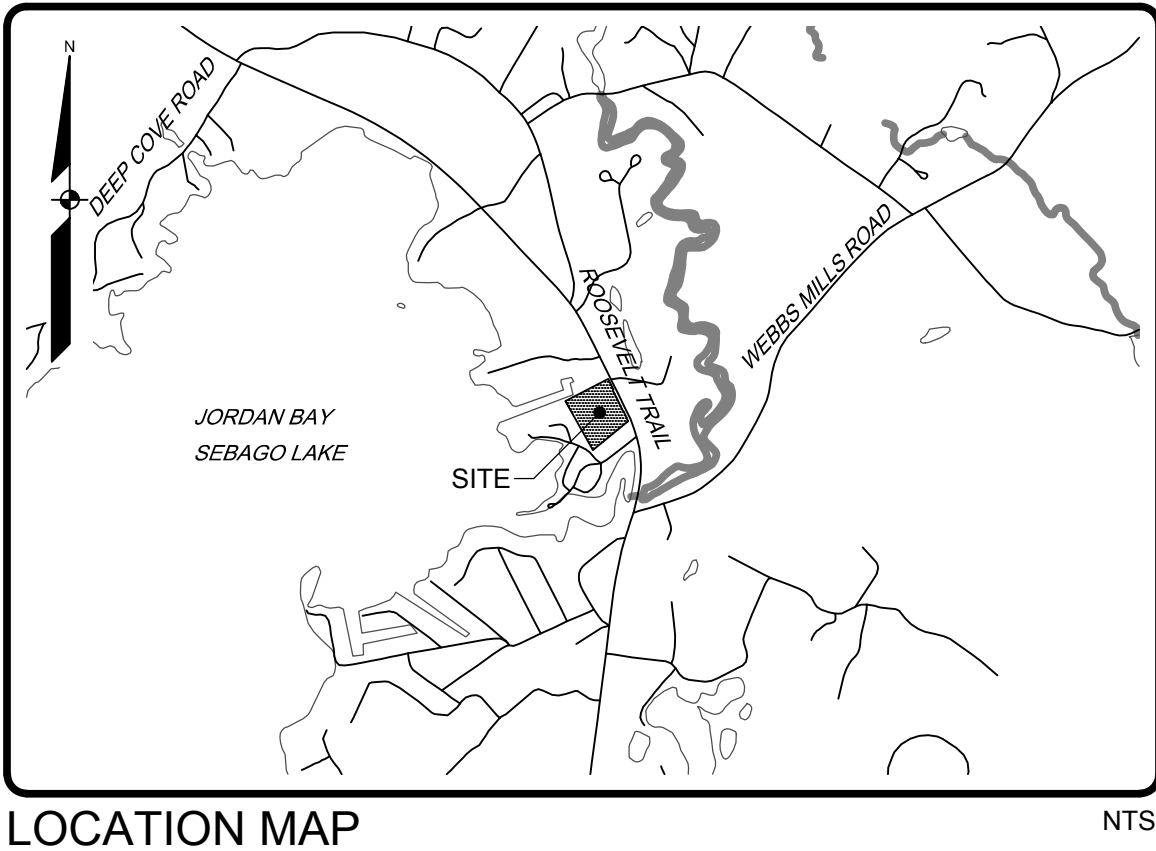
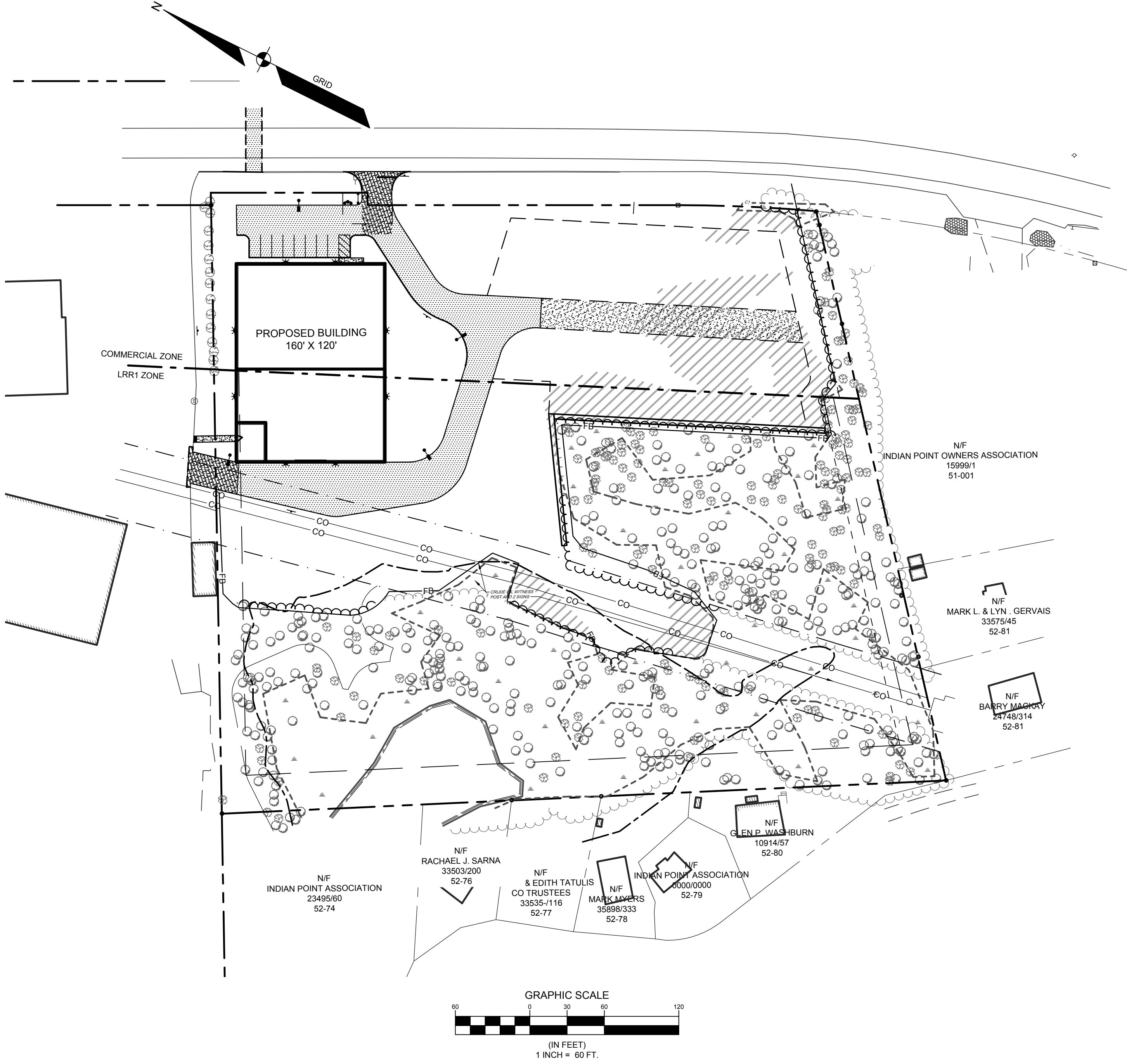
1328 ROOSEVELT TRAIL
RAYMOND, ME

APPLICANT:

PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

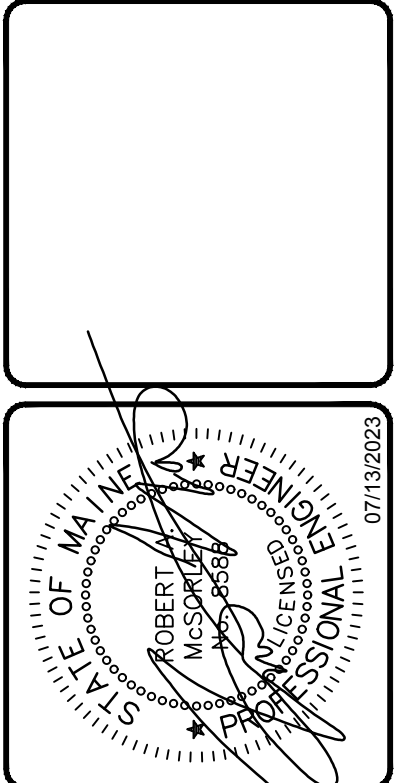
**ENGINEER/SURVEYOR/
LANDSCAPE ARCHITECT:**

**SEBAGO
TECHNICS**
WWW.SEBAGOTECHNICS.COM
75 John Roberts Rd.
Suite 4A
South Portland, ME 04106
Tel. 207-200-2100



Sheet List Table

Sheet Number	Sheet Title
1	COVER SHEET
2	NOTES & LEGENDS
3	EXISTING CONDITIONS PLAN
4	DEMOLITION & EROSION CONTROL PLAN
5	SITE PLAN
6	GRADING & UTILITIES PLAN
7	LANDSCAPE PLAN
8	EROSION CONTROL NOTES
9	DETAILS
10	DETAILS
11	DETAILS
12	DETAILS
13	DETAILS
1 of 2	EXISTING CONDITIONS - SWP
2 of 2	PROPOSED CONDITIONS - SWP



REV	BY	DATE	STATUS	REVISION
I	RAM	07/13/2023	REVISED PER TOWN OF RAYMOND COMMENTS	
H	RAM	06/14/2023	RESUBMISSION TO THE TOWN OF RAYMOND & MDEP	
G	RAM	12/05/2022	MDEP - CORRECT CONTROL STRUCTURE BLEEDERS	
F	RAM	10/20/22	REVISED PER PWD	
E	RAM	10/12/22	REVISED PER PWD AND ARCHITECTURAL COORDINATION	
D	RAM	9/21/22	ADD WAIVER REQUEST	
C	RAM	9/14/22	REVISED PER TOWN OF RAYMOND COMMENTS	

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COVER SHEET
OF:
JORDAN BAY MARINA
1328 ROOSEVELT TRAIL
RAYMOND, ME
FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	1" = 60'
PROJECT	14265-02

**ROOSEVELT TRAIL
(ROUTE 302)**

DEMOLITION NOTES

1. SEE THE EROSION CONTROL NOTES & DETAILS PLAN FOR EROSION CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
2. CONTRACTOR SHALL NOTIFY DIGSAFE FOR UTILITY LOCATIONS PRIOR TO EXCAVATION.
3. ALL DEMOLITION WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
4. ALL SITE FEATURES COLORED RED ARE TO BE DEMOLISHED AND/OR REMOVED FROM THE SITE.
5. WITHIN SAW CUT LIMITS REMOVE ALL ASPHALT AND CONCRETE.
6. CONTRACTOR RESPONSIBLE FOR COORDINATION WITH UTILITY SERVICE PROVIDER FOR REMOVAL, RELOCATION AND/OR PROTECTION OF UTILITY SERVICES.



REVISED PER TOWN OF RAYMOND COMMENTS	07/13/2023	C	RAM
RESUBMISSION TO THE TOWN OF RAYMOND & MDEP	06/14/2023	H	RAM
MDEP - CORRECT CONTROL STRUCTURE BLEEDERS	12/05/2022	G	RAM
REVISOR PER PWD	10/20/22	F	RAM
REVISOR PER PWD AND ARCHITECTURAL COORDINATION	10/12/22	E	RAM
ADD WAIVER REQUEST	9/21/22	D	RAM
REVISED PER TOWN OF RAYMOND COMMENTS	9/14/22	C	RAM
STATUS:	DATE:	BY:	REV:

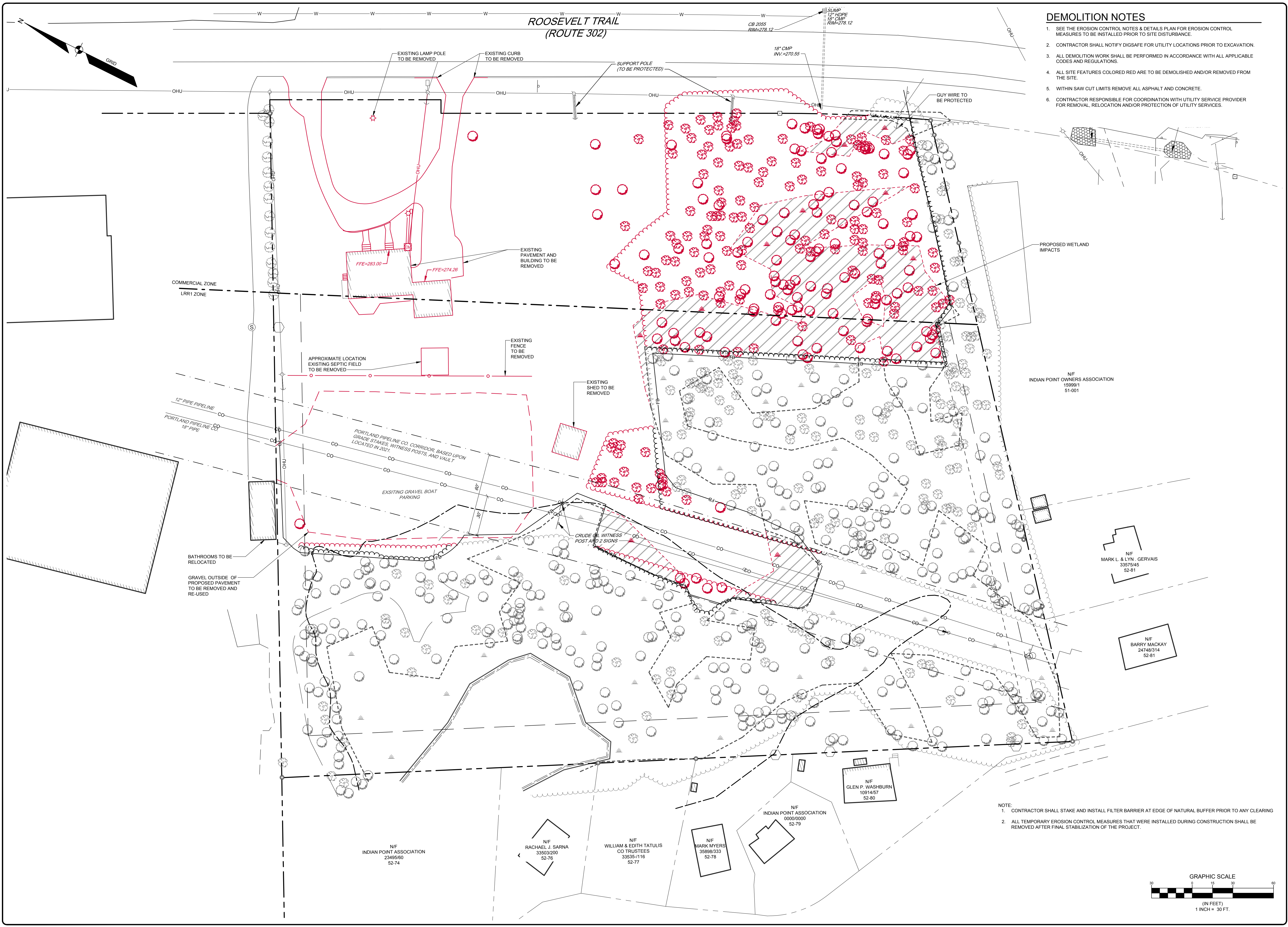
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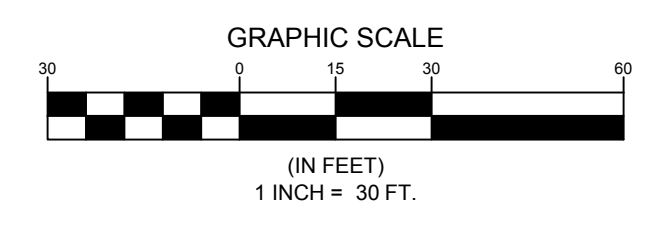
DEMOLITION & EROSION CONTROL PLAN
OF:
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RAYMOND, ME
FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	1" = 30'
PROJECT	14265-02

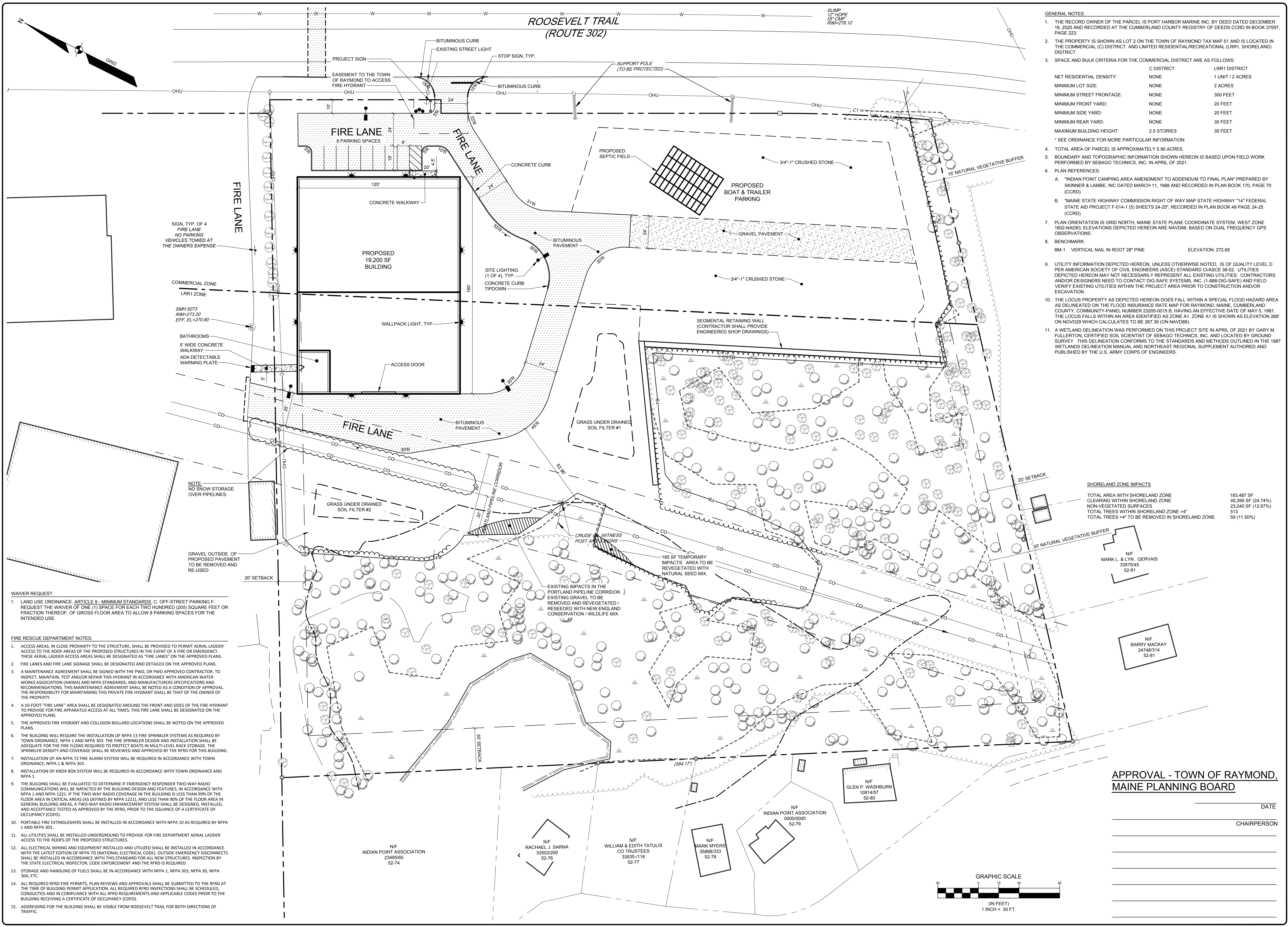
SHEET 4 OF 13



- NOTE:
1. CONTRACTOR SHALL STAKE AND INSTALL FILTER BARRIER AT EDGE OF NATURAL BUFFER PRIOR TO ANY CLEARING
 2. ALL TEMPORARY EROSION CONTROL MEASURES THAT WERE INSTALLED DURING CONSTRUCTION SHALL BE REMOVED AFTER FINAL STABILIZATION OF THE PROJECT.



14265-02 DEMO.DWG T&E4 DEMO PLAN



- GENERAL NOTES:**
- THE RECORD OWNER OF THE PARCEL IS PORT HARBOR MARINE INC. BY DEED DATED DECEMBER 18, 2020 AND RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS CCRD IN BOOK 37597, PAGE 223.
 - THE PROPERTY IS SHOWN AS LOT 2 ON THE TOWN OF RAYMOND TAX MAP 51 AND IS LOCATED IN THE COMMERCIAL (C) DISTRICT, AND LIMITED RESIDENTIAL/RECREATIONAL (LRR1, SHORELAND) DISTRICT.
 - SPACE AND BULK CRITERIA FOR THE COMMERCIAL DISTRICT ARE AS FOLLOWS:

	C DISTRICT	LRR1 DISTRICT
NET RESIDENTIAL DENSITY:	NONE	1 UNIT / 2 ACRES
MINIMUM LOT SIZE:	NONE	2 ACRES
MINIMUM STREET FRONTAGE:	NONE	300 FEET
MINIMUM FRONT YARD:	NONE	20 FEET
MINIMUM SIDE YARD:	NONE	20 FEET
MINIMUM REAR YARD:	NONE	30 FEET
MAXIMUM BUILDING HEIGHT:	NONE	35 FEET

- TOTAL AREA OF PARCEL IS APPROXIMATELY 5.90 ACRES.
- BOUNDARY AND TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON FIELD WORK PERFORMED BY SEBAGO TECHNICS, INC. IN APRIL OF 2021.
- PLAN REFERENCES:
 - "INDIAN POINT CAMPING AREA AMENDMENT TO ADDENDUM TO FINAL PLAN" PREPARED BY SKINNER & LAMBE, INC DATED MARCH 11, 1988 AND RECORDED IN PLAN BOOK 170, PAGE 70 (CCRD).
 - "MAINE STATE HIGHWAY COMMISSION RIGHT OF WAY MAP STATE HIGHWAY 14" FEDERAL STATE AID PROJECT F-014-1 (5) SHEETS 24-25", RECORDED IN PLAN BOOK 49 PAGE 24-25 (CCRD).
- PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-14083. ELEVATIONS DEPICTED HEREON ARE NAVD83, BASED ON DUAL FREQUENCY GPS OBSERVATIONS.
- BENCHMARK:

BM-1 VERTICAL NAIL IN ROOT 28" PINE	ELEVATION: 272.65
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- UTILITY INFORMATION DEPICTED HEREON, UNLESS OTHERWISE NOTED, IS OF QUALITY LEVEL D PER AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) STANDARD 38-02. 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 DOES FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR RAYMOND, MAINE, CUMBERLAND COUNTY, COMMUNITY-PANEL NUMBER 23005-0015 B, HAVING AN EFFECTIVE DATE OF MAY 5, 1981. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE A1. ZONE A1 IS SHOWN AS ELEVATION 268' ON NGVD29 WHICH CALCULATES TO BE 267.39' (ON NAVD83).
- A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN APRIL 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.

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SHORELAND ZONE IMPACTS

TOTAL AREA WITH SHORELAND ZONE CLEARING WITHIN SHORELAND ZONE	183,487 SF
NON-VEGETATED SURFACES	45,395 SF (24.74%)
TOTAL TREES WITHIN SHORELAND ZONE >4"	23,240 SF (12.67%)
TOTAL TREES >4" TO BE REMOVED IN SHORELAND ZONE	513
	59 (11.50%)

- WAIVER REQUEST:**
- LAND USE ORDINANCE, ARTICLE 9 - MINIMUM STANDARDS, C. OFF-STREET PARKING F. REQUEST THE WAIVER OF ONE (1) SPACE FOR EACH TWO HUNDRED (200) SQUARE FEET OR FRACTION THEREOF, OF GROSS FLOOR AREA TO ALLOW 8 PARKING SPACES FOR THE INTENDED USE.
- FIRE RESCUE DEPARTMENT NOTES:**
- ACCESS AREAS, IN CLOSE PROXIMITY TO THE STRUCTURE, SHALL BE PROVIDED TO PERMIT AERIAL LADDER ACCESS TO THE ROOF AREAS OF THE PROPOSED STRUCTURES IN THE EVENT OF A FIRE OR EMERGENCY. THESE AERIAL LADDER ACCESS AREAS SHALL BE DESIGNATED AS "FIRE LANES" ON THE APPROVED PLANS.
 - FIRE LANES AND FIRE LANE SIGNAGE SHALL BE DESIGNATED AND DETAILED ON THE APPROVED PLANS.
 - A MAINTENANCE AGREEMENT SHALL BE SIGNED WITH THE PWD, OR PWD APPROVED CONTRACTOR, TO INSPECT, MAINTAIN, TEST AND/OR REPAIR THIS HYDRANT IN ACCORDANCE WITH AMERICAN WATER WORKS ASSOCIATION (AWWA) AND NFPA STANDARDS, AND MANUFACTURERS SPECIFICATIONS AND RECOMMENDATIONS. THIS MAINTENANCE AGREEMENT SHALL BE NOTED AS A CONDITION OF APPROVAL. THE RESPONSIBILITY FOR MAINTAINING THIS PRIVATE FIRE HYDRANT SHALL BE THAT OF THE OWNER OF THE PROPERTY.
 - A 10-FOOT "FIRE LANE" AREA SHALL BE DESIGNATED AROUND THE FRONT AND SIDES OF THE FIRE HYDRANT TO PROVIDE FOR FIRE APPARATUS ACCESS AT ALL TIMES. THIS FIRE LANE SHALL BE DESIGNATED ON THE APPROVED PLANS.
 - THE APPROVED FIRE HYDRANT AND COLLISION BOLLARD LOCATIONS SHALL BE NOTED ON THE APPROVED PLANS.
 - THE BUILDING WILL REQUIRE THE INSTALLATION OF NFPA 13 FIRE SPRINKLER SYSTEMS AS REQUIRED BY TOWN ORDINANCE, NFPA 1 AND NFPA 303. THE FIRE SPRINKLER DESIGN AND INSTALLATION SHALL BE ADEQUATE FOR THE FIRE FLOWS REQUIRED TO PROTECT BOATS IN MULTI-LEVEL RACK STORAGE. THE SPRINKLER DENSITY AND COVERAGE SHALL BE REVIEWED AND APPROVED BY THE RFRD FOR THIS BUILDING.
 - INSTALLATION OF AN NFPA 72 FIRE ALARM SYSTEM WILL BE REQUIRED IN ACCORDANCE WITH TOWN ORDINANCE, NFPA 1 & NFPA 303.
 - INSTALLATION OF KNOX BOX SYSTEM WILL BE REQUIRED IN ACCORDANCE WITH TOWN ORDINANCE AND NFPA 1.
 - THE BUILDING SHALL BE EVALUATED TO DETERMINE IF EMERGENCY RESPONDER TWO-WAY RADIO COMMUNICATIONS WILL BE IMPACTED BY THE BUILDING DESIGN AND FEATURES, IN ACCORDANCE WITH NFPA 1 AND NFPA 1221. IF THE TWO-WAY RADIO COVERAGE IN THE BUILDING IS LESS THAN 99% OF THE FLOOR AREA IN CRITICAL AREAS (AS DEFINED BY NFPA 1221), AND LESS THAN 90% OF THE FLOOR AREA IN GENERAL BUILDING AREAS, A TWO-WAY RADIO ENHANCEMENT SYSTEM SHALL BE DESIGNED, INSTALLED, AND ACCEPTANCE TESTED AS APPROVED BY THE RFRD, PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (COFO).
 - PORTABLE FIRE EXTINGUISHERS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 10 AS REQUIRED BY NFPA 1 AND NFPA 303.
 - ALL UTILITIES SHALL BE INSTALLED UNDERGROUND TO PROVIDE FOR FIRE DEPARTMENT AERIAL LADDER ACCESS TO THE ROOFS OF THE PROPOSED STRUCTURES.
 - ALL ELECTRICAL WIRING AND EQUIPMENT INSTALLED AND UTILIZED SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF NFPA 70 (NATIONAL ELECTRICAL CODE). OUTSIDE EMERGENCY DISCONNECTS SHALL BE INSTALLED IN ACCORDANCE WITH THIS STANDARD FOR ALL NEW STRUCTURES. INSPECTION BY THE STATE ELECTRICAL INSPECTOR, CODE ENFORCEMENT AND THE RFRD IS REQUIRED.
 - STORAGE AND HANDLING OF FUELS SHALL BE IN ACCORDANCE WITH NFPA 1, NFPA 303, NFPA 30A, NFPA 30A, ETC.
 - ALL REQUIRED RFRD FIRE PERMITS, PLAN REVIEWS AND APPROVALS SHALL BE SUBMITTED TO THE RFRD AT THE TIME OF BUILDING PERMIT APPLICATION. ALL REQUIRED RFRD INSPECTIONS SHALL BE SCHEDULED, CONDUCTED AND IN COMPLIANCE WITH ALL RFRD REQUIREMENTS AND APPLICABLE CODES PRIOR TO THE BUILDING RECEIVING A CERTIFICATE OF OCCUPANCY (COFO).
 - ADDRESSING FOR THE BUILDING SHALL BE VISIBLE FROM ROOSEVELT TRAIL FOR BOTH DIRECTIONS OF TRAFFIC.

APPROVAL - TOWN OF RAYMOND, MAINE PLANNING BOARD

DATE _____

CHAIRPERSON _____

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	1" = 30'
PROJECT	14265-02

SHEET 5 OF 13

ROBERT A. WINSORLEY, P.E. 6588

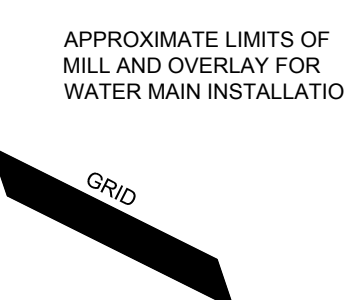
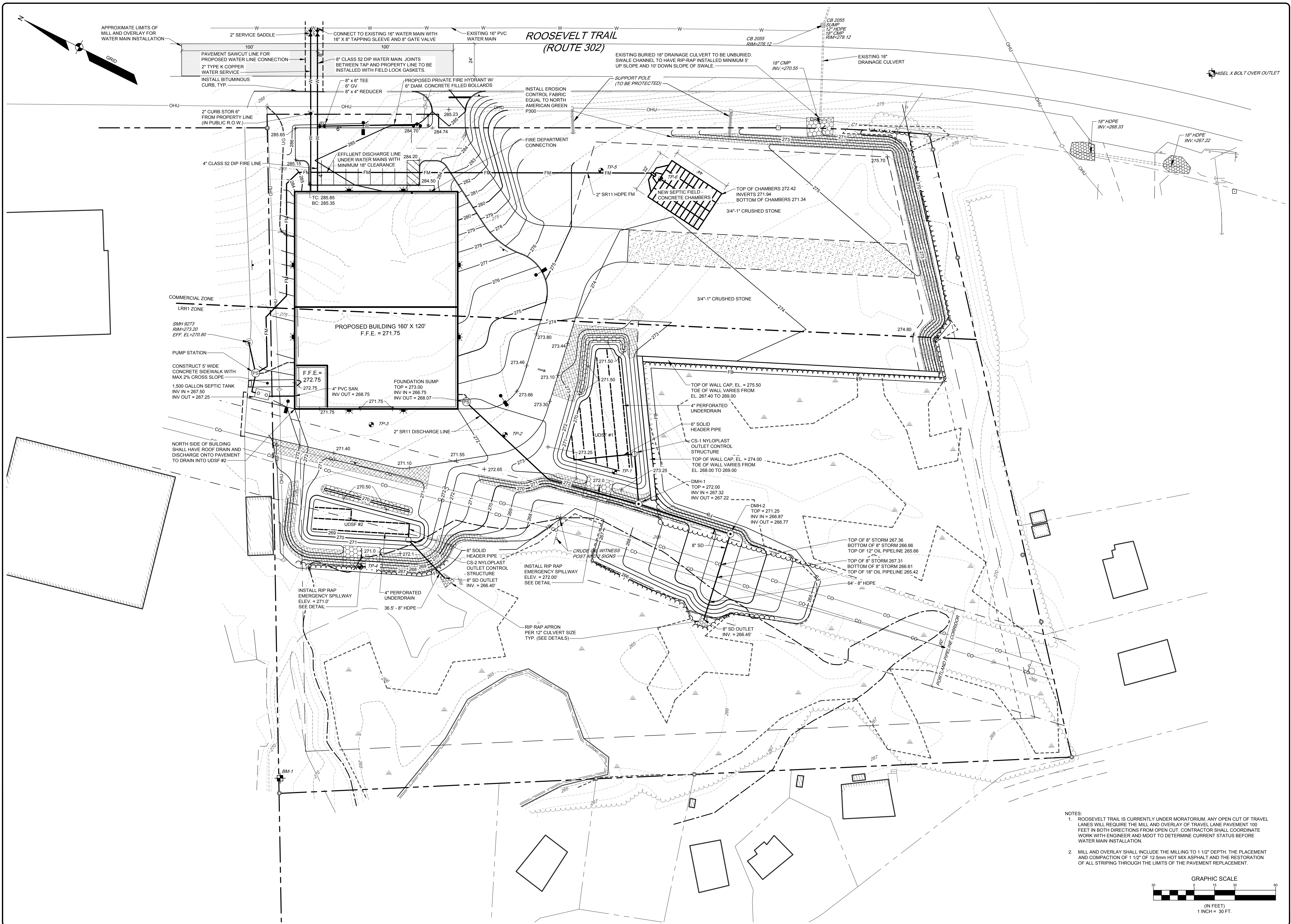
REVISIONS:

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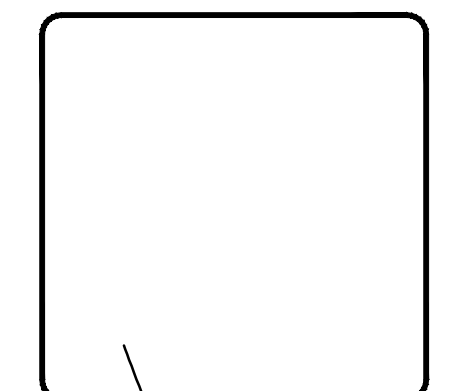
SEBAGO TECHNICS
75 John Roberts Rd.
South Portland, ME 04106
Tel. 207-260-2100

SITE PLAN
OF:
JORDAN BAY MARINA
1328 ROOSEVELT TRAIL
RAYMOND, ME
FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106



APPROXIMATE LIMITS OF MILL AND OVERLAY FOR WATER MAIN INSTALLATION

**ROOSEVELT TRAIL
(ROUTE 302)**



REVISIONS

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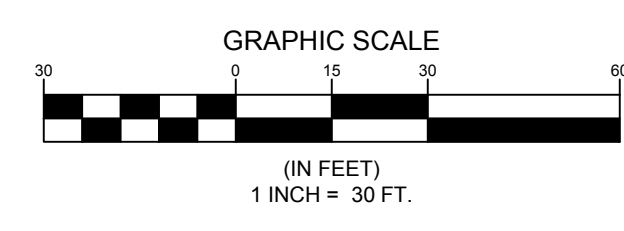
GRADING & UTILITIES PLAN
OF:
JORDAN BAY MARINA
1328 ROOSEVELT TRAIL
RAYMOND, ME

FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
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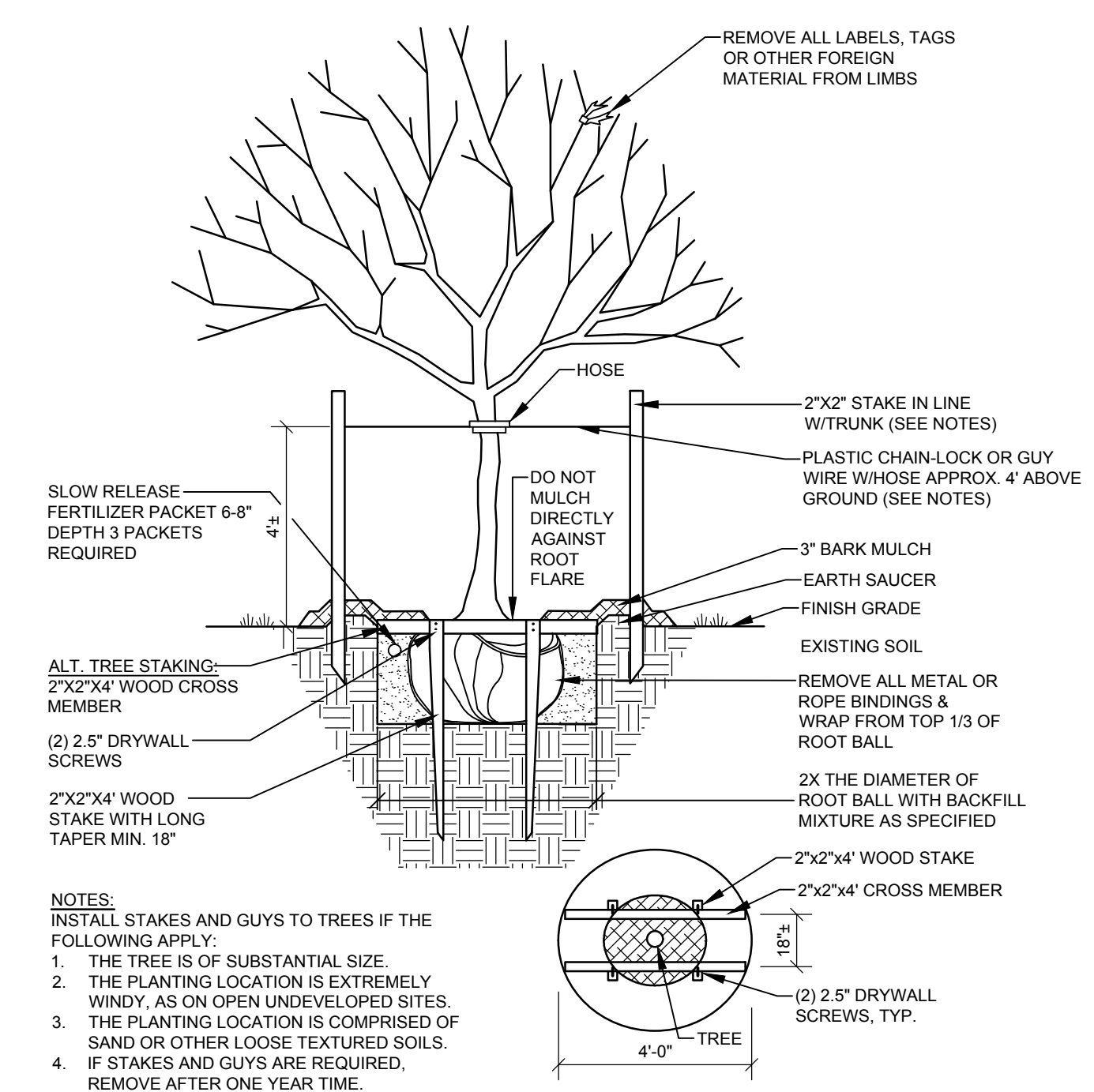
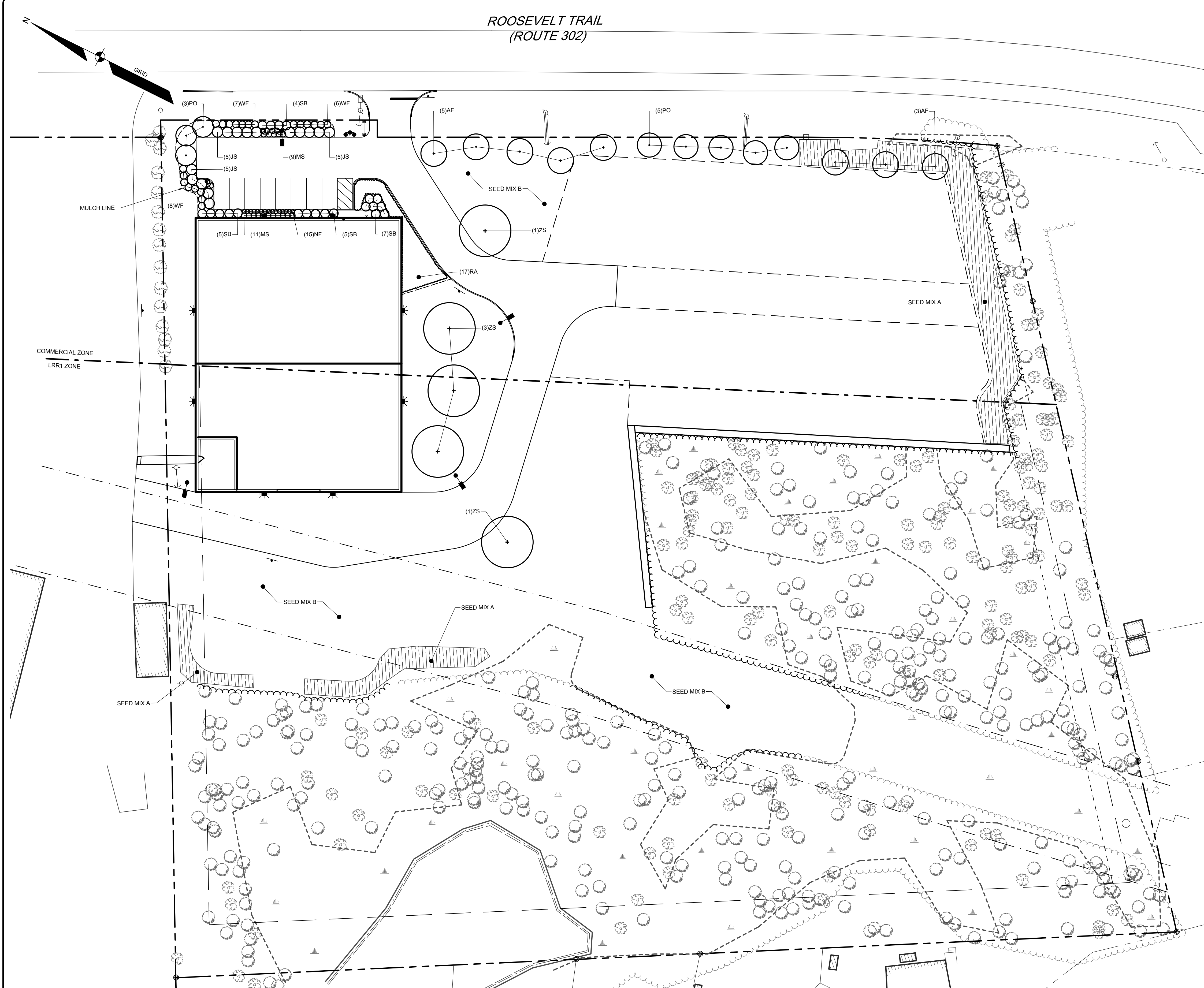
SHEET 6 OF 13

- NOTES:
- ROOSEVELT TRAIL IS CURRENTLY UNDER MORATORIUM. ANY OPEN CUT OF TRAVEL LANES WILL REQUIRE THE MILL AND OVERLAY OF TRAVEL LANE PAVEMENT 100 FEET IN BOTH DIRECTIONS FROM OPEN CUT. CONTRACTOR SHALL COORDINATE WORK WITH ENGINEER AND MDT TO DETERMINE CURRENT STATUS BEFORE WATER MAIN INSTALLATION.
 - MILL AND OVERLAY SHALL INCLUDE THE MILLING TO 1 1/2" DEPTH. THE PLACEMENT AND COMPACTION OF 1 1/2" OF 12.5mm HOT MIX ASPHALT AND THE RESTORATION OF ALL STRIPING THROUGH THE LIMITS OF THE PAVEMENT REPLACEMENT.

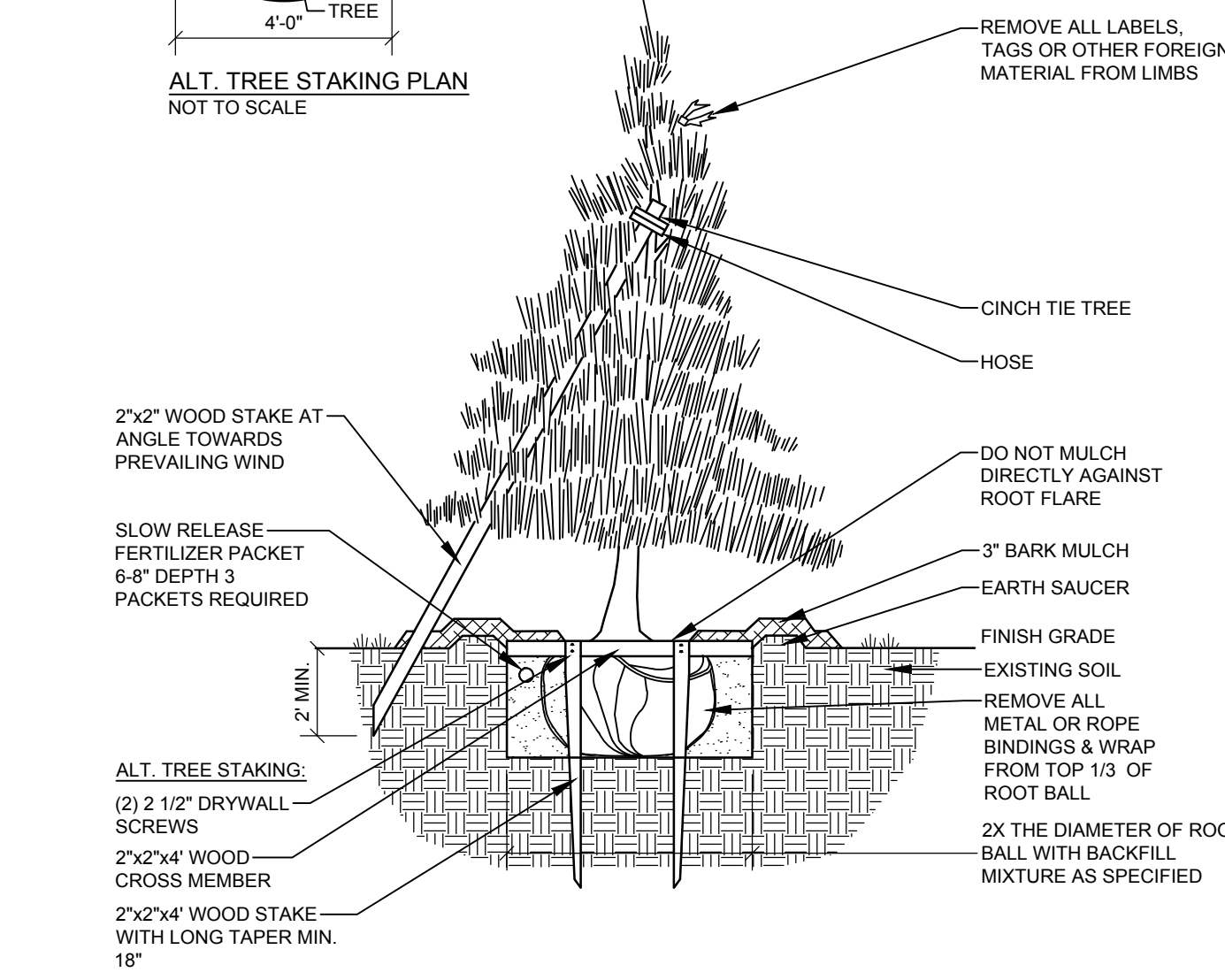
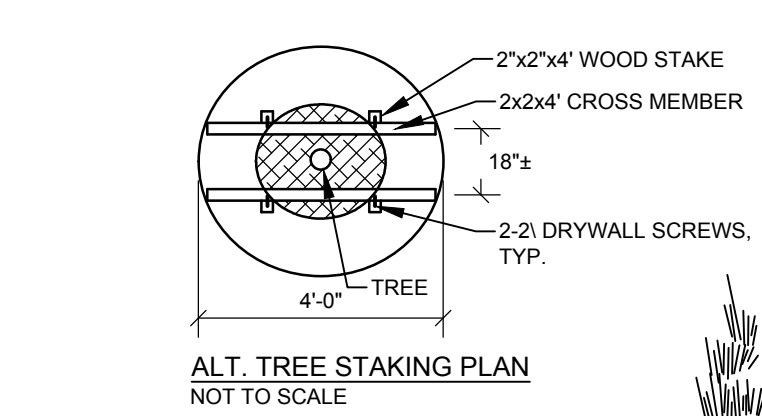


14265-02 Grading, Tab 6: GRADING & UTILITIES PLAN

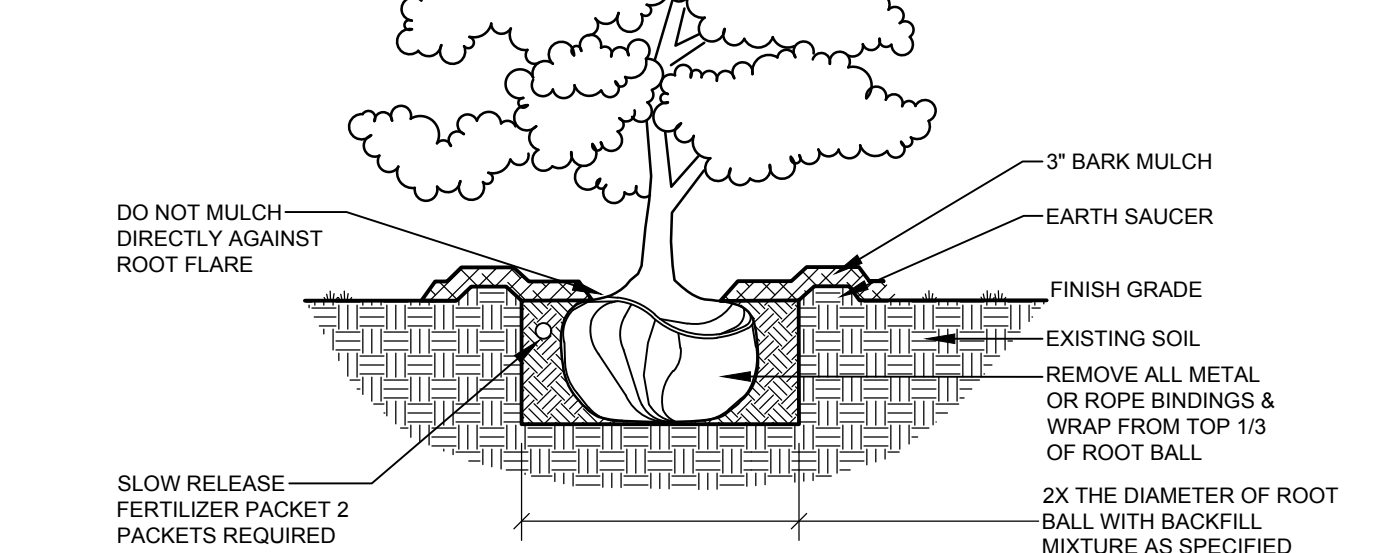
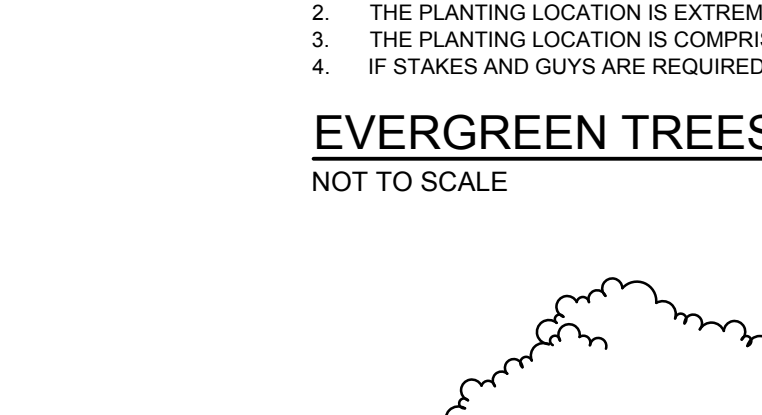
ROOSEVELT TRAIL
(ROUTE 302)



DECIDUOUS TREES
NOT TO SCALE



EVERGREEN TREES
NOT TO SCALE



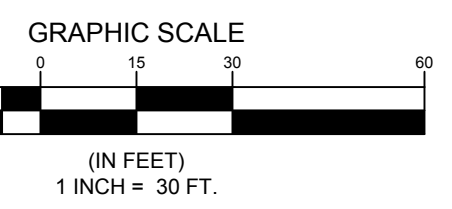
DECIDUOUS & EVERGREEN SHRUB
NOT TO SCALE

PLANT SCHEDULE

KEY	BOTANICAL NAME	COMMON NAME	SIZE / NOTES
AF	ACER X FREEMANII 'ARMSTRONG'	ARMSTRONG RED MAPLE	2.5" CAL
ZS	ZELKOVA SERRATA	ZELKOVA	2.5" CAL
PO	PICEA OMORIKA	SERBIAN SPRUCE	6'-7" HGT.
JV	JUNIPERUS SABINA 'GREEN CARPET'	GREEN CARPET JUNIPER	#3 CONT.
SB	SPIRAEA X BULMDA 'ANTHONY WATERER'	ANTHONY WATERER	#3 CONT.
RA	RHUS AROMATICA 'GRO-LOW'	FRAGRANT SUMAC	#3 CONT.
WF	WEIGELA FLORIDA 'FINE WINE'	FINE WINE WEIGELA	#3 CONT.
MS	MISCANTHUS SINENSIS 'LITTLE KITTEN'	LITTLE KITTEN MAIDEN GRASS	#2 CONT.
NF	NEPETA FAASENII 'WALKER'S LOW'	WALKER'S LOW CATMINT	#2 CONT.

SEED MIX A: NEW ENGLAND CONSERVATION/WILDLIFE MIX
(FOR MORE INFORMATION PLEASE VISIT NEW ENGLAND WETLAND PLANTS, INC.)

SEED MIX B: MDOT METHOD #1 PARK MIX
(FOR MORE INFORMATION PLEASE VISIT DIVISION 700 OF THE MAINE DEPARTMENT OF TRANSPORTATION)



HENRY A. HESS RJA-4841

DATE

REV	BY	DATE	STATUS	REVISED PER TOWN OF RAYMOND COMMENTS
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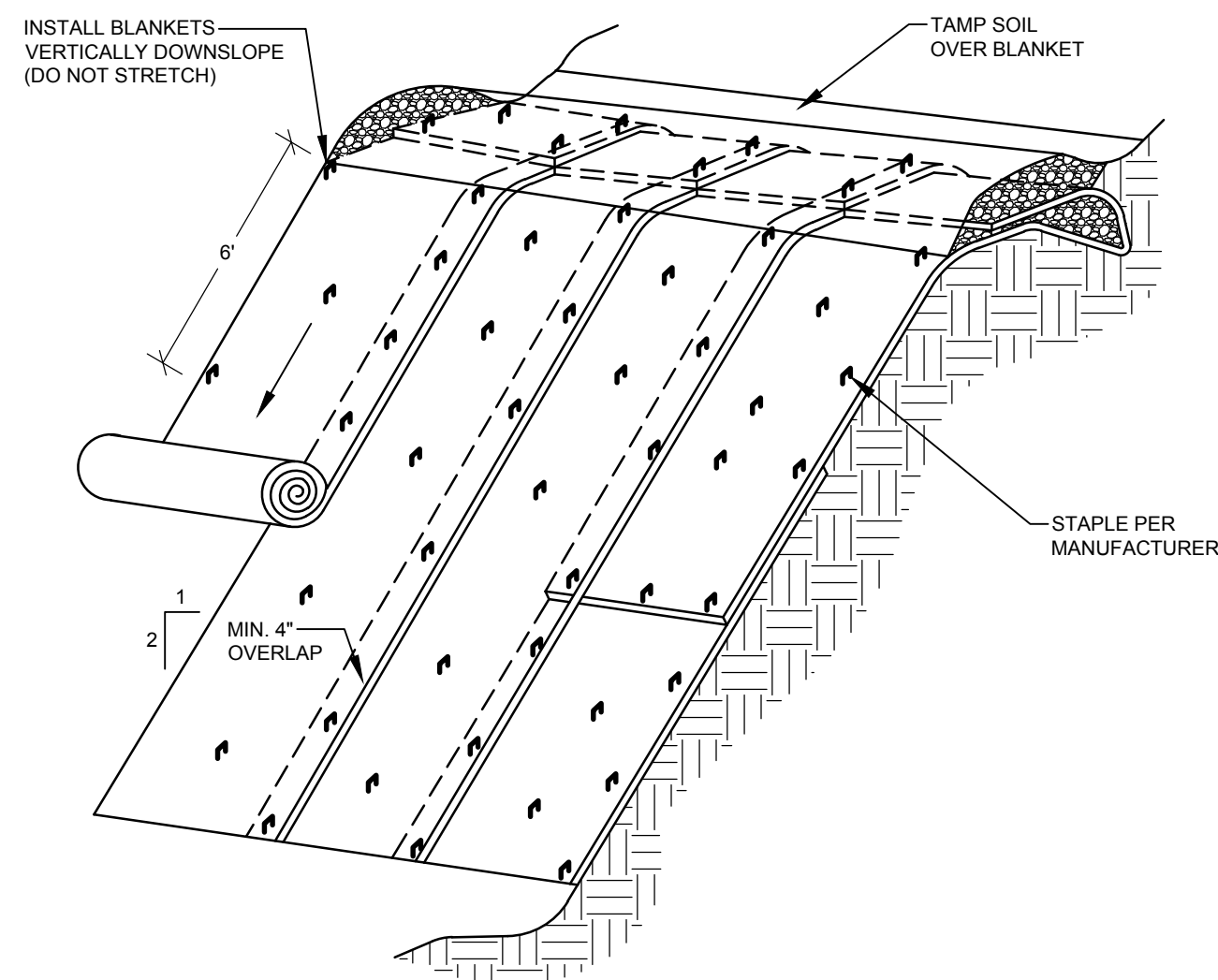
RECORD OWNER: JORDAN BAY MARINA
OWNER'S NAME: JORDAN BAY MARINA
ADDRESS 1: 1328 ROOSEVELT TRAIL
ADDRESS 2: RAYMOND, ME 04106

DESIGNED: JSH
DRAWN: DAB
CHECKED: RAM
DATE: 08/28/23
SCALE: 1" = 30'
PROJECT: 14265-02

LANDSCAPE PLAN OF: JORDAN BAY MARINA 1328 ROOSEVELT TRAIL RAYMOND, ME FOR: PORT HARBOR MARINE 1 SPRING POINT DRIVE SOUTH PORTLAND, ME 04106

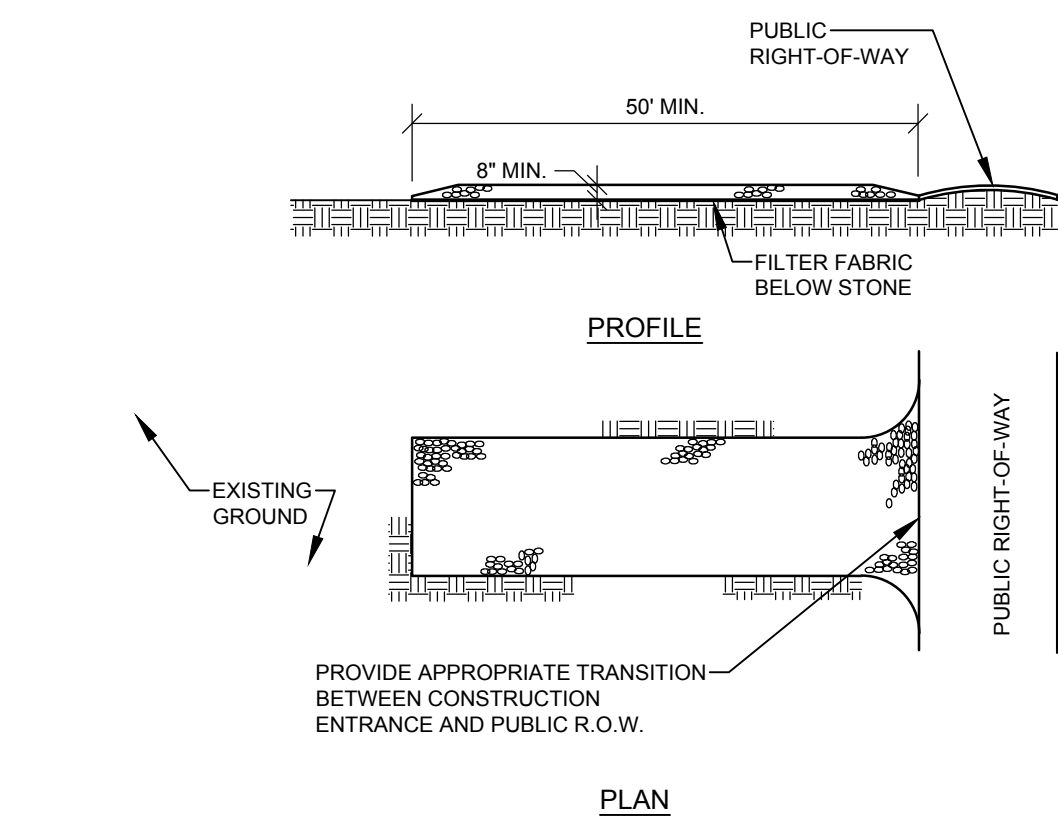
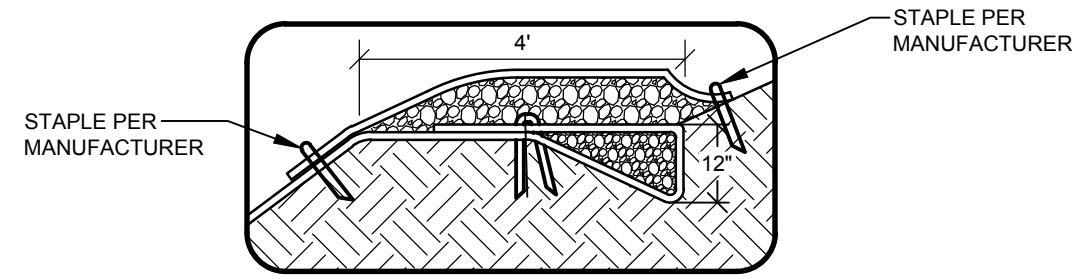
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14265-02 L.dwg TAB LANDSCAPE PLAN



CONSTRUCTION SPECIFICATIONS

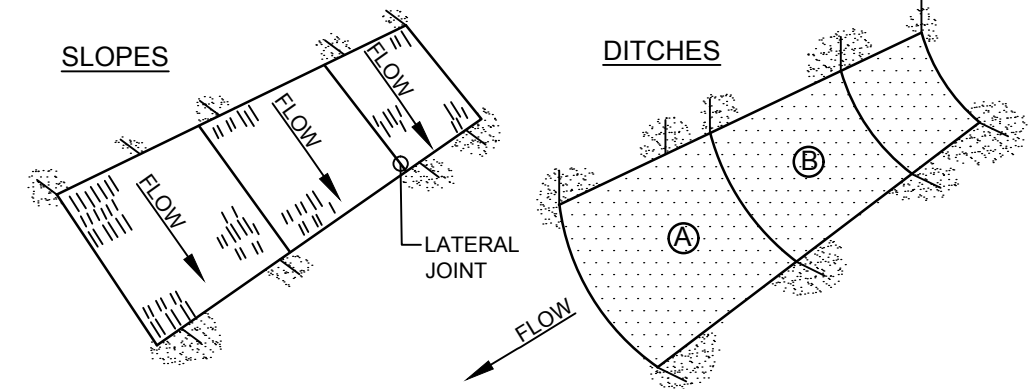
1. THE SOIL SURFACE SHALL BE FINELY GRADED AND SMOOTH FOR THE BLANKET TO HAVE DIRECT CONTACT WITH THE SOIL AND TO PREVENT UNDERMINING.
2. SEED SHALL BE SOWN BEFORE INSTALLING THE EROSION CONTROL BLANKET.
3. ALWAYS UNROLL THE BLANKET DOWNHILL WITHOUT STRETCHING AND ANCHOR THE UPSLOPE EDGE IN A 12 INCH DEEP TRENCH THAT IS BACKFILLED AND TAMPED. COVER THE TAMPED SOIL WITH BLANKET AND STAPLE TO SECURE.
4. OVERLAP SINGLE STYLE A MINIMUM OF 12 INCHES AT THE TOP OF EACH ROW AND 4 INCHES AT THE EDGES OF PARALLEL ROWS. ANCHOR ALONG THE OVERLAP WITH A MAXIMUM SPACING OF 3 FEET OR AS REQUIRED BY THE MANUFACTURER.



- 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 ENTRANCE

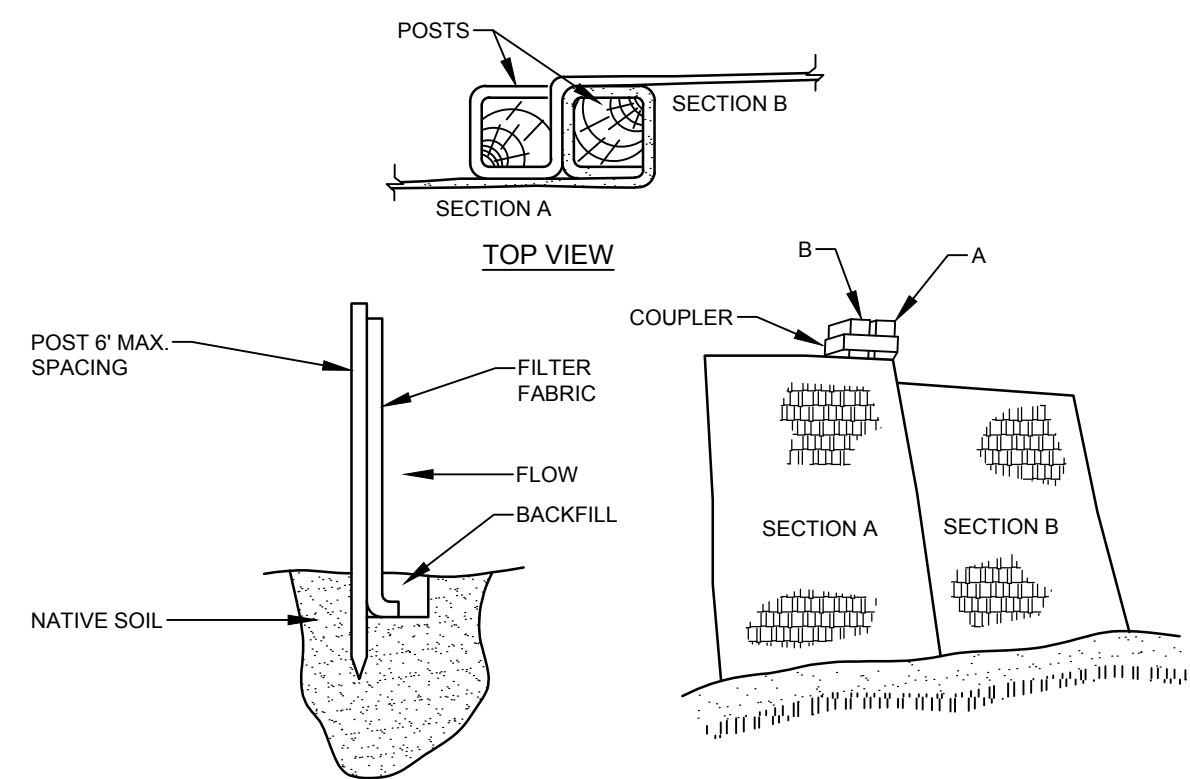
NOT TO SCALE



- 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

NOT TO SCALE

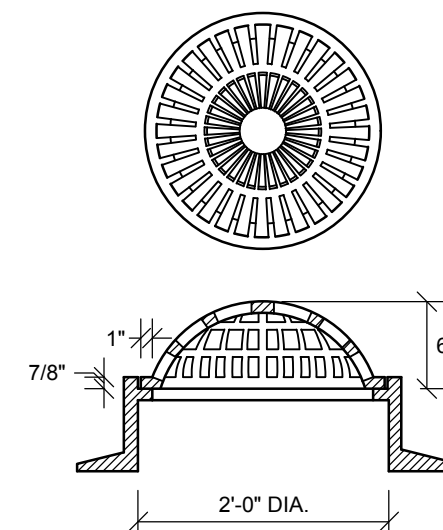


INSTALLATION:

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.
7. THE FENCE SHOULD BE ANCHORED TO RESIST PULL-OUT AND BE STRETCHED TIGHTLY BETWEEN STAKES TO PREVENT SAGGING.
8. IN AREAS WHERE FLAP CANNOT BE KEYPED PROPERLY (DUE TO FROZEN GROUND, BEDROCK, STONY SOILS, ROOTS NEAR A PROTECTED NATURAL RESOURCE, ETC.) THE SILT FENCE SHOULD BE ANCHORED WITH AGGREGATE, CRUSHED STONE, EROSION CONTROL MIX OR OTHER MATERIAL.
9. FILTER BARRIER NEEDS TO BE REMOVED WHEN THE AREA IS STABILIZED.

FILTER BARRIER

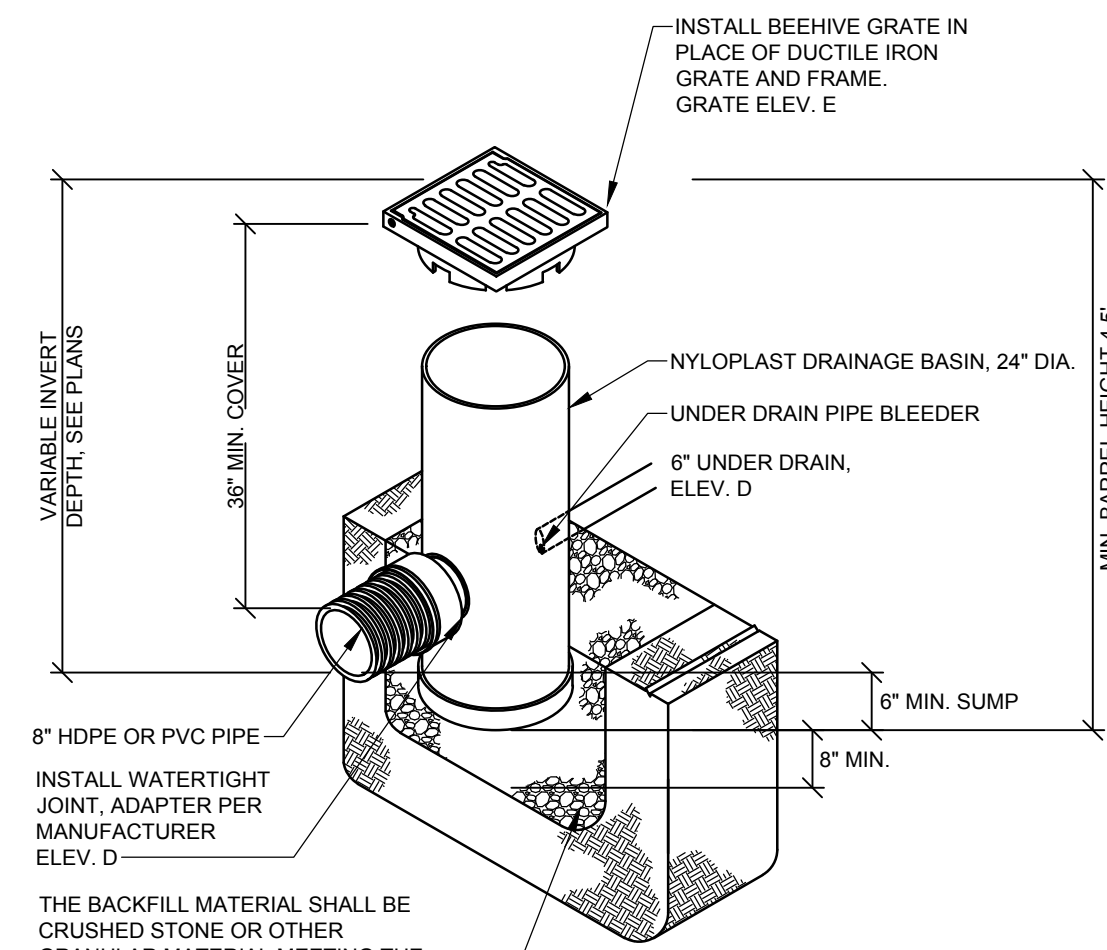
NOT TO SCALE



NOTES:
NEENAH FOUNDRY #R-4353
OR APPROVED EQUAL

BEEHIVE GRATE

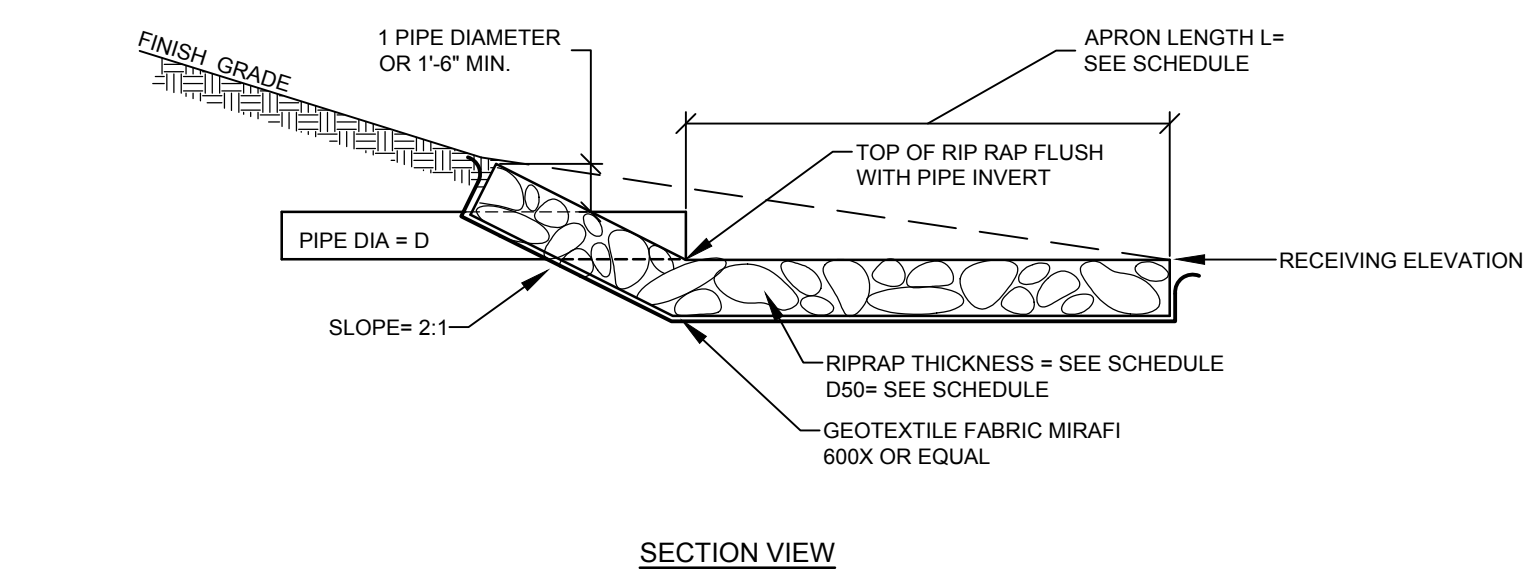
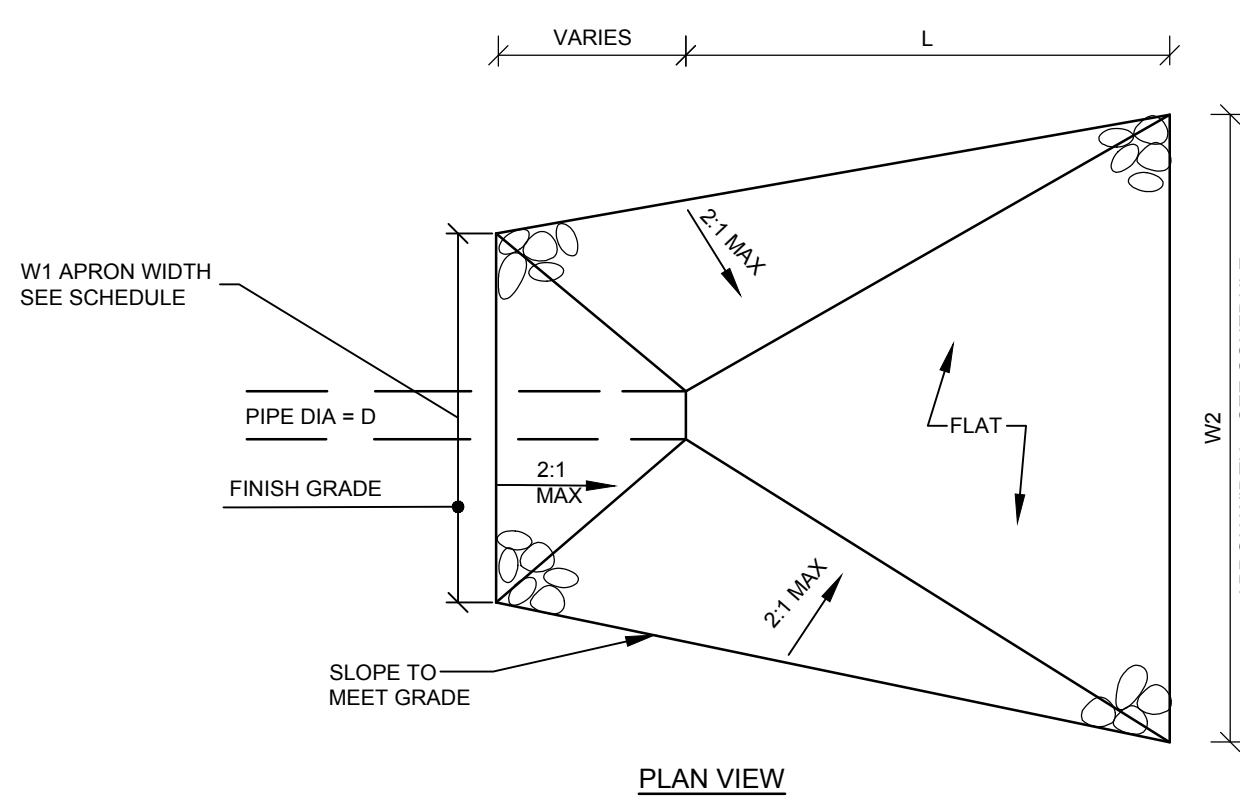
NOT TO SCALE



- NOTES:**
1. INSTALL BASIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. INSTALL BEEHIVE GRATE IN PLACE OF D.I. GRATE AND FRAME.

TYP. NYLOPLAST OUTLET CONTROL STRUCTURE

NOT TO SCALE



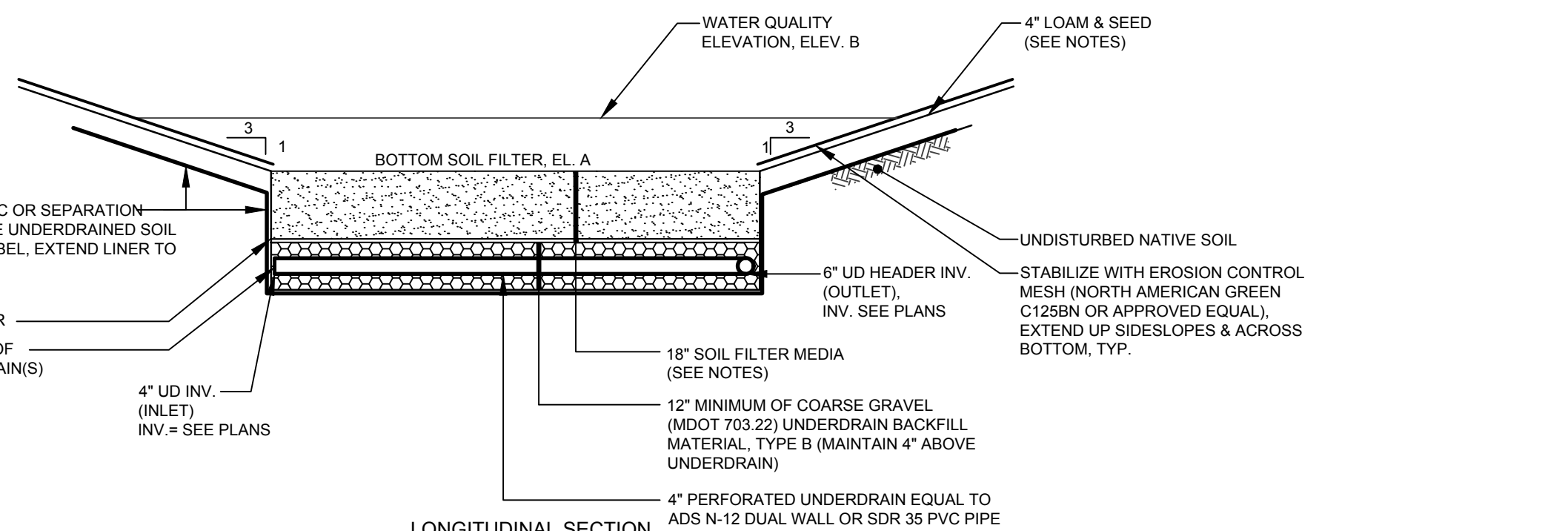
- NOTES:**
1. RIPRAP TO BE PROCESSED ANGULAR ROCK
 2. RIPRAP GRADATION SHALL BE A WELL GRADED MIX FROM ABOUT 1.5 TIMES D SIZE TO 25 PERCENT OF THE D SIZE
 3. THE RIPRAP STONES SHALL BE CAREFULLY PLACED FROM THE TOE OF THE SLOPE UPWARD STONES SHALL BE LOWERED TO THE SLOPE AND NOT BE ALLOWED TO DROP MORE 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
15	10	4	12	6	14
18	13	5	15	7	16
24	18	6	20	8	18
36	29	9	32	11	25
42	33	11	37	12	27
48	39	12	43	16	36

RIPRAP APRON

NOT TO SCALE



LONGITUDINAL SECTION

SECTION

UNDERDRAINED SOIL FILTER DETAIL

NOT TO SCALE

UNDERDRAINED SOIL FILTER TABLE

UNDERDRAINED SOIL FILTER #	ELEV. A	ELEV. B	ELEV. C	ELEV. D	ELEV. E	ELEV. F	ELEV. G	CONTROL STRUCTURE	UNDER DRAIN PIPE BLEEDER SIZE	LINER TYPE
1	270.0'	271.33'	271.50'	267.80'	271.50'	273.25'	272.0'	CS-1	1.1" DIAM.	30 MIL HDPE/PVC
2	269.0'	270.17'	270.50'	266.80'	270.85'	272.10'	271.0'	CS-2	0.7" DIAM.	30 MIL HDPE/PVC

UNDERDRAINED SOIL FILTER CONSTRUCTION OVERSIGHT NOTES:
THE APPLICANT WILL RETAIN THE SERVICES OF A PROFESSIONAL ENGINEER TO INSPECT THE CONSTRUCTION AND STABILIZATION OF THE UNDERDRAIN. IF NECESSARY, THE INSPECTING ENGINEER WILL INTERPRET THE UNDERDRAIN CONSTRUCTION PLAN FOR THE CONTRACTOR. ONCE ALL STORMWATER MANAGEMENT STRUCTURES ARE CONSTRUCTED AND STABILIZED, THE INSPECTING ENGINEER WILL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT IN WRITING WITHIN 30 DAYS TO STATE THAT THE POND HAS BEEN COMPLETED. ACCOMPANYING THE ENGINEER'S NOTIFICATION MUST BE A LOG OF THE ENGINEER'S INSPECTIONS GIVING THE DATE OF EACH INSPECTION, THE TIME OF EACH INSPECTION, AND THE ITEMS INSPECTED ON EACH VISIT, AND INCLUDE ANY TESTING DATA OR SIEVE ANALYSIS DATA OF EVERY MINERAL SOIL AND SOIL MEDIA SPECIFIED IN THE PLANS AND USED ON SITE.

1. CONSTRUCTION SEQUENCE: THE UNDERDRAIN AND VEGETATION MUST NOT BE INSTALLED UNTIL THE AREA THAT DRAINS TO THE UNDERDRAIN HAS BEEN PERMANENTLY STABILIZED WITH PAVEMENT OR OTHER STRUCTURE. 90% VEGETATION COVER, OR OTHER PERMANENT STABILIZATION UNLESS THE RUNOFF FROM THE CONTRIBUTING DRAINAGE AREA IS DIVERTED AROUND THE FILTER UNTIL STABILIZATION IS COMPLETED.
2. COMPACTION OF UNDERDRAIN: UNDERDRAIN BEDDING MATERIAL MUST BE COMPACTED TO BETWEEN 90% AND 92% STANDARD PROCTOR. THE BED SHOULD BE INSTALLED IN AT LEAST 2 LIFTS OF 8 INCHES TO PREVENT POCKETS OF LOOSE MEDIA.
3. CONSTRUCTION OVERSIGHT: INSPECTION BY A PROFESSIONAL ENGINEER WILL OCCUR AT A MINIMUM:
 - A. FOR FIRST UNDERDRAIN CONSTRUCTED, AFTER UNDERDRAIN PIPE IS COMPLETELY BACKFILLED AND BEFORE PLACEMENT OF SOIL FILTER MEDIA.
 - B. AFTER THE SOIL FILTER MEDIA HAS BEEN INSTALLED.
 - C. AFTER ONE YEAR TO INSPECT HEALTH OF THE VEGETATION AND MAKE CORRECTIONS.
 - D. ALL MATERIAL USED FOR THE CONSTRUCTION OF THE UNDERDRAIN MUST BE CONFIRMED AS SUITABLE BY THE DESIGN ENGINEER. TESTING MUST BE DONE BY A CERTIFIED LABORATORY.

TESTING AND SUBMITTALS

1. THE SOIL FILTER MEDIA SHALL CONSIST OF A BLEND OF MATERIALS AS IDENTIFIED IN THE UNDERDRAINED SOIL FILTER MEDIA NOTES BELOW. THE CONTRACTOR SHALL IDENTIFY THE LOCATION OF THE SOURCE FOR EACH COMPONENT OF THE UNDERDRAIN AND SUBMIT GRADATIONS FOR THE UNDERDRAIN MATERIALS TO THE ENGINEER FOR APPROVAL. SAMPLES MUST BE A COMPOSITE OF THREE DIFFERENT LOCATIONS (GRABS) FROM THE STOCKPILE OR PIT FACE. SAMPLE SIZE REQUIRED WILL BE DETERMINED BY THE TESTING LABORATORY.

UNDERDRAINED SOIL FILTER MEDIA NOTES:

1. SOIL FILTER MEDIA CONSISTS OF A SILTY SAND SOIL OR SOIL MIXTURE COMBINED WITH A MATURE, MODERATELY FINE SHREDED BARK OR WOOD FIBER MULCH 20% TO 25% BY VOLUME (NO LESS THAN 10% BY DRY WEIGHT). THE RESULTING MIXTURE SHOULD HAVE 8% TO 12% PASSING THE NO. 200 SIEVE AND A CLAY CONTENT OF LESS THAN 2%. THE PROPORTIONS OF THE MIXTURE CAN BE ADJUSTED SO IT WILL CONTAIN SUFFICIENT FINES AND ORGANIC MATTER. THE SOIL FILTER MEDIA MAY CONTAIN THE FOLLOWING (BY VOLUME):
 - A. 50% OF SAND (MAINE DOT SPECIFICATION #703 01 IS CLOSE BUT IT CONTAINS INSUFFICIENT FINE MATERIAL FOR THE FILTER MEDIA)
 - B. 20% OF SANDY LOAM TO FINE SANDY LOAM (TABLE 7.1.2)
 - C. 30 % OF MATURE COMPOSTED WOODY FIBERS AND FINE SHREDED BARK, SUPERHUMUS OR EQUIVALENT (ADJUSTED FOR MINERAL SOIL CONTENT).
2. UNDERDRAIN STONE BEDDING MATERIAL MUST CONFORM TO THE MDOT SPECIFICATION 703.22 UNDERDRAIN TYPE B FOR UNDERDRAIN BACKFILL MATERIAL. THE BEDDING MATERIAL MUST HAVE NO MORE THAN 5% PASSING THE 200 SIEVE.
3. MATERIAL LAYERS ABOVE THE UNDERDRAIN BACKFILL LAYER SHALL BE A UNIFORM MIX, FREE OF STONES, STUMPS, ROOTS, OR OTHER SIMILAR OBJECTS LARGER THAN TWO INCHES. NO OTHER MATERIALS OR SUBSTANCES THAT MAY BE HARMFUL TO PLANT GROWTH, OR PROVE A HINDRANCE TO THE PLANTING OR MAINTENANCE OPERATIONS CAN BE MIXED WITHIN THE FILTER. DURING CONSTRUCTION, CARE SHOULD BE TAKEN TO AVOID COMPACTION OF BOTH THE GRAVEL AND SOIL FILTER.
4. OVER COMPACTION OF UNDERDRAIN MATERIAL SHALL BE AVOIDED. IF OVER COMPACTION OCCURS, ROTOTILL AGAIN PRIOR TO SEEDING OR SODDING.

ROBERT A. MCGURLEY, P.E. 6688
STATE OF MAINE
PROFESSIONAL ENGINEER
LICENSE NO. 11855
07/13/2023

REVISED PER TOWN OF RAYMOND COMMENTS
RESUBMISSION TO THE TOWN OF RAYMOND & MDEP
MDEP - CORRECT CONTROL STRUCTURE BLEEDERS
REVISED PER PWD
REVISED PER PWD AND ARCHITECTURAL COORDINATION
ADD WAIVER REQUEST
REVISED PER TOWN OF RAYMOND COMMENTS
REVISION: DATE: STATUS:
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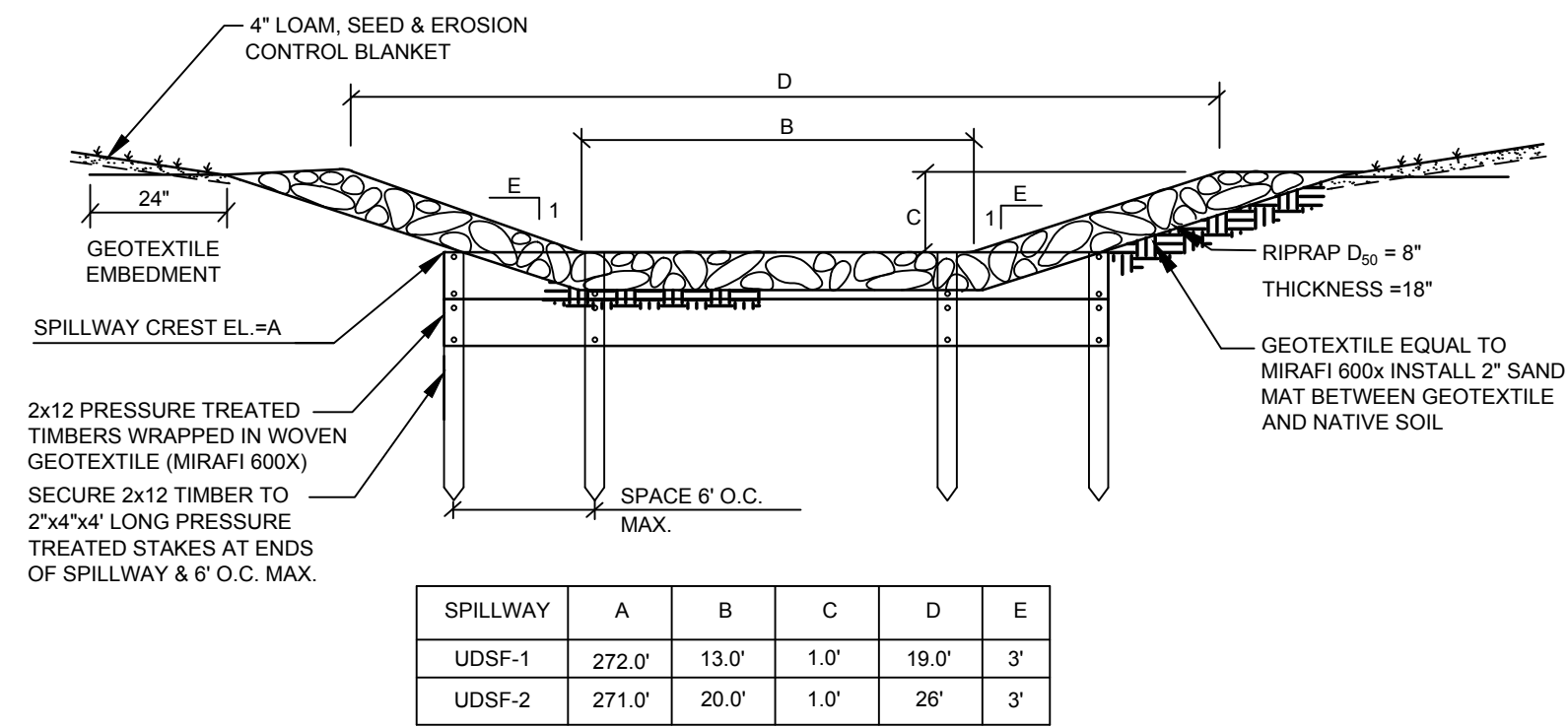
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South Portland, ME 04106
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DETAILS OF:
JORDAN BAY MARINA
1328 ROOSEVELT TRAIL
RAYMOND, ME
FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	NTS
PROJECT	14265-02

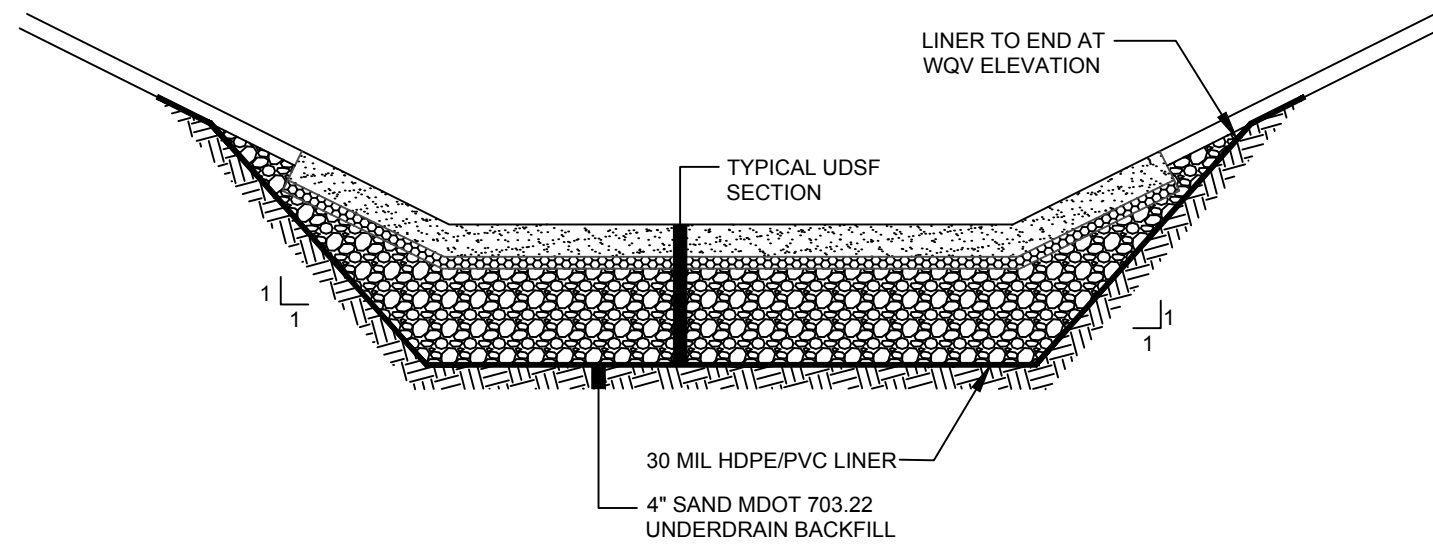
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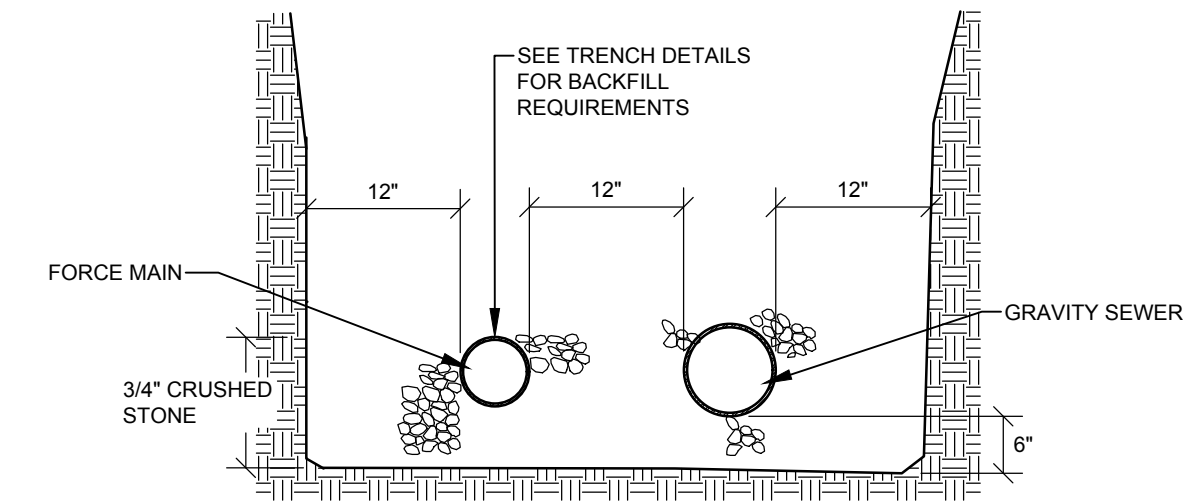


SPILLWAY	A	B	C	D	E
UDSF-1	272.0'	13.0'	1.0'	19.0'	3'
UDSF-2	271.0'	20.0'	1.0'	26'	3'

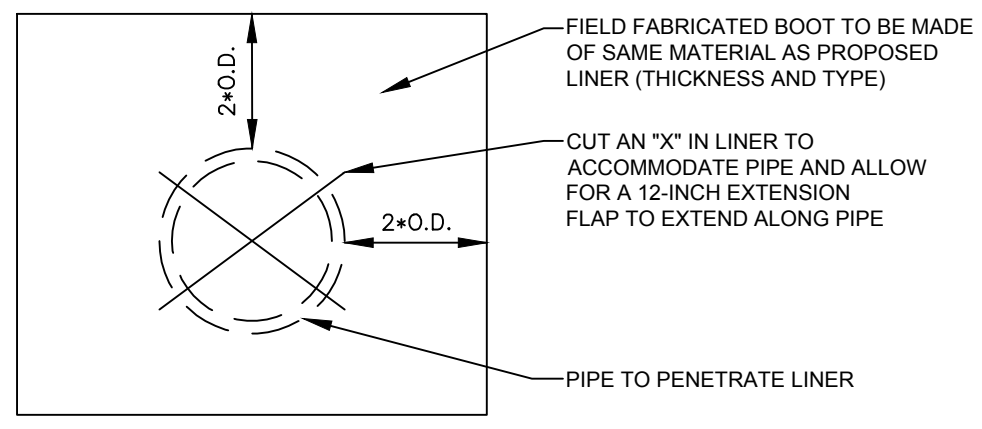
SPILLWAY CROSS-SECTION
NOT TO SCALE



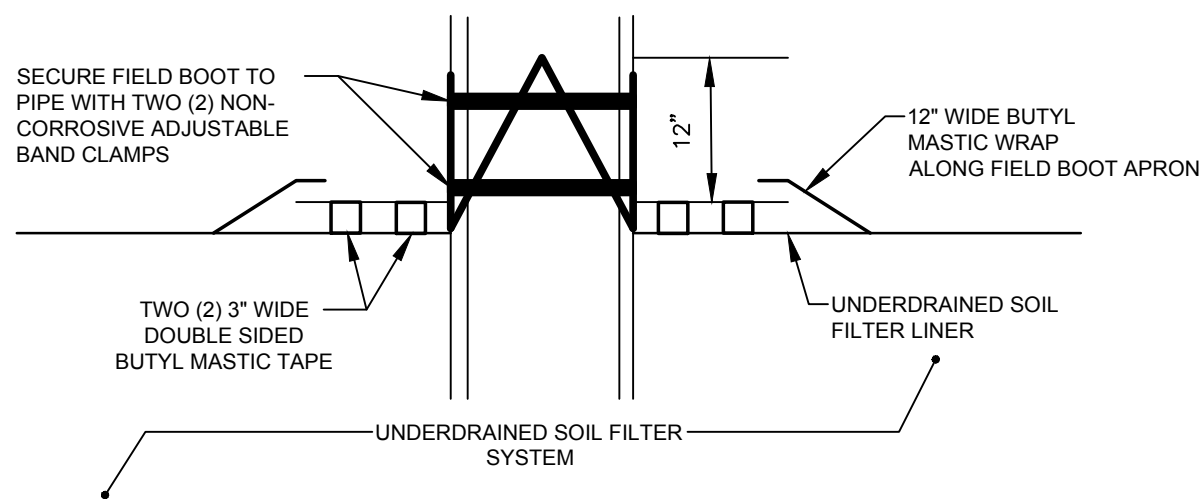
HDPE/PVC LINER DETAIL
NOT TO SCALE



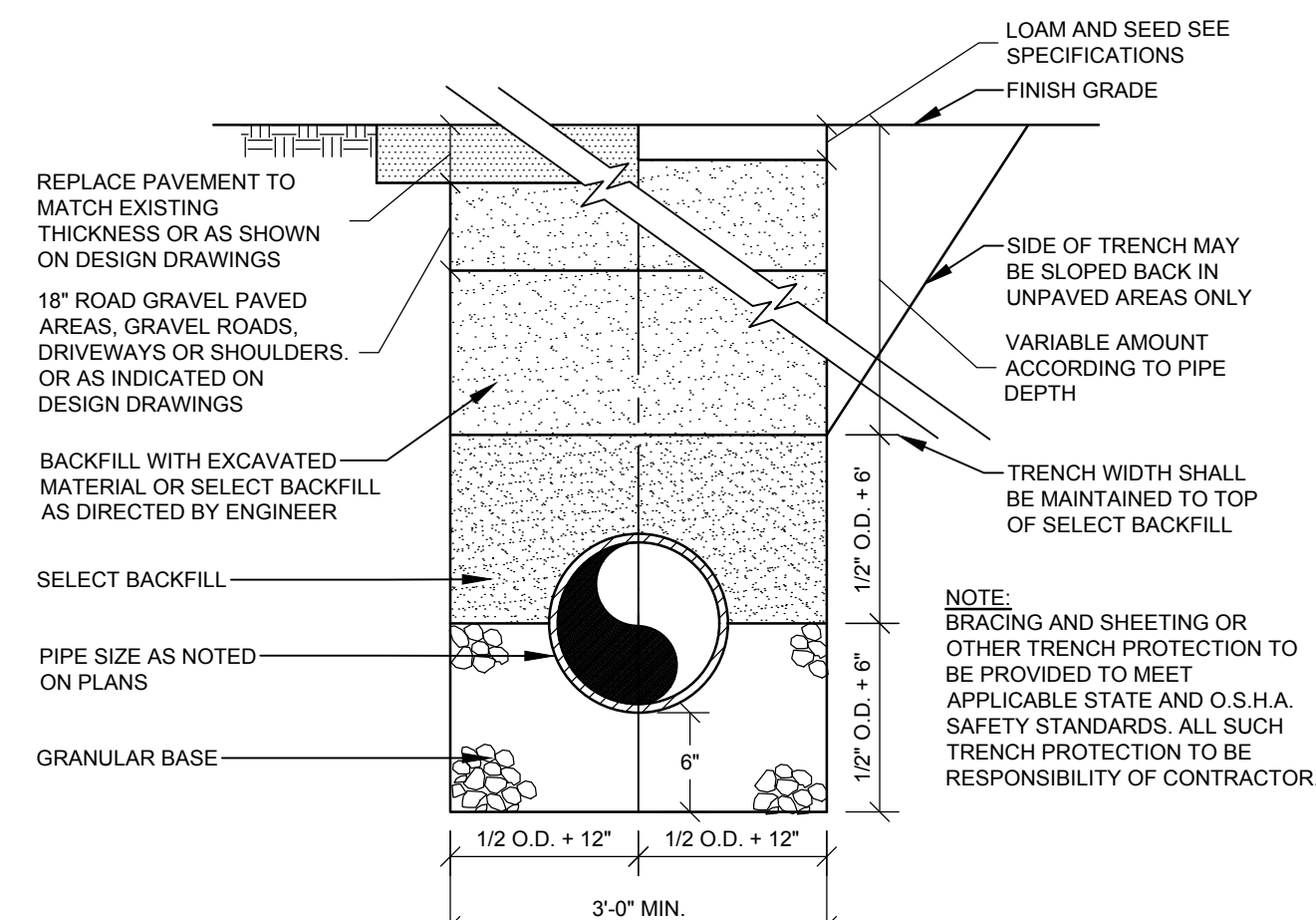
TWO PIPE TRENCH
NOT TO SCALE



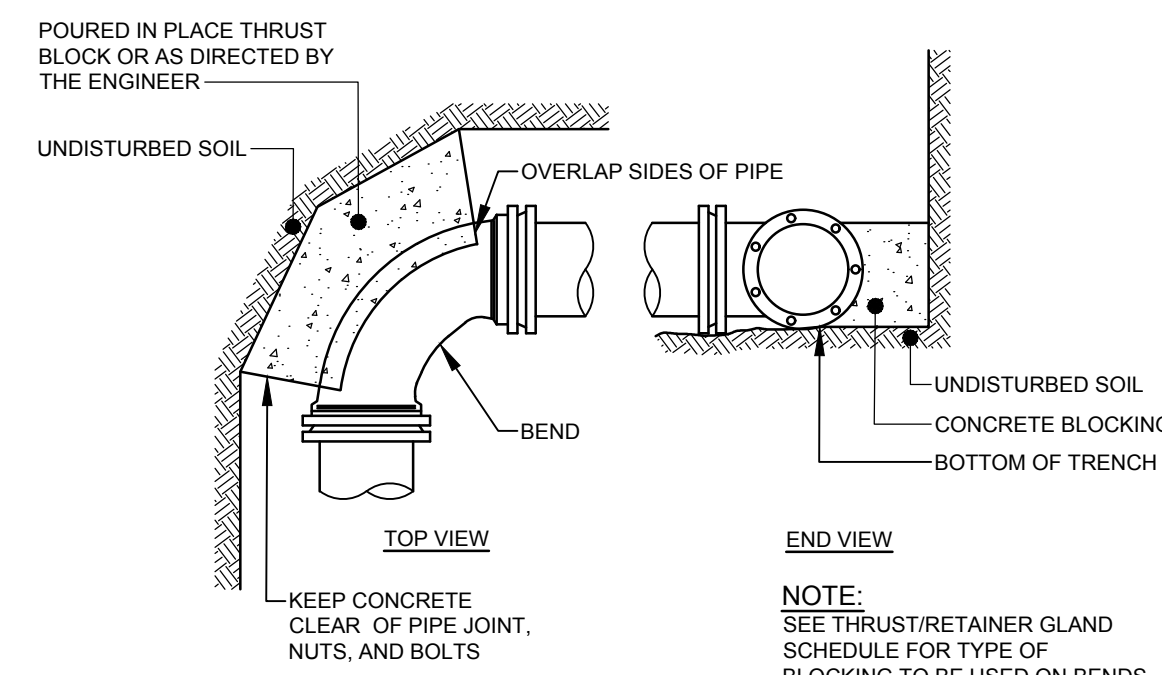
WATERTIGHT PIPE PENETRATION ELEVATION VIEW



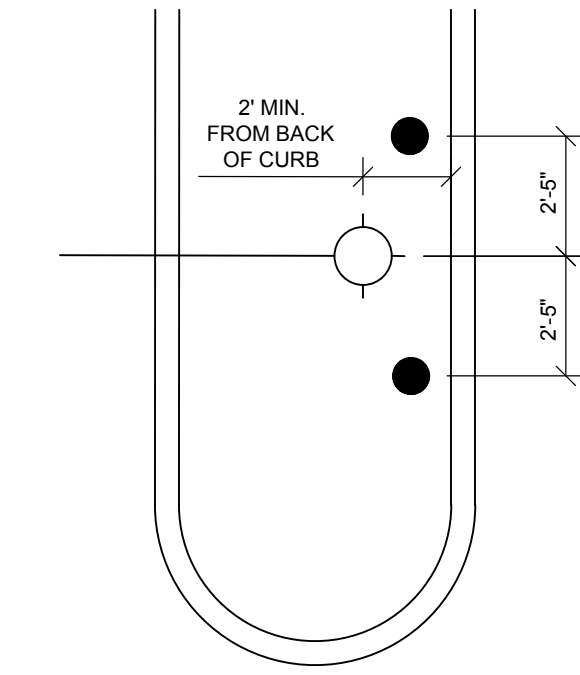
WATERTIGHT PIPE PENETRATION PLAN VIEW
NOT TO SCALE



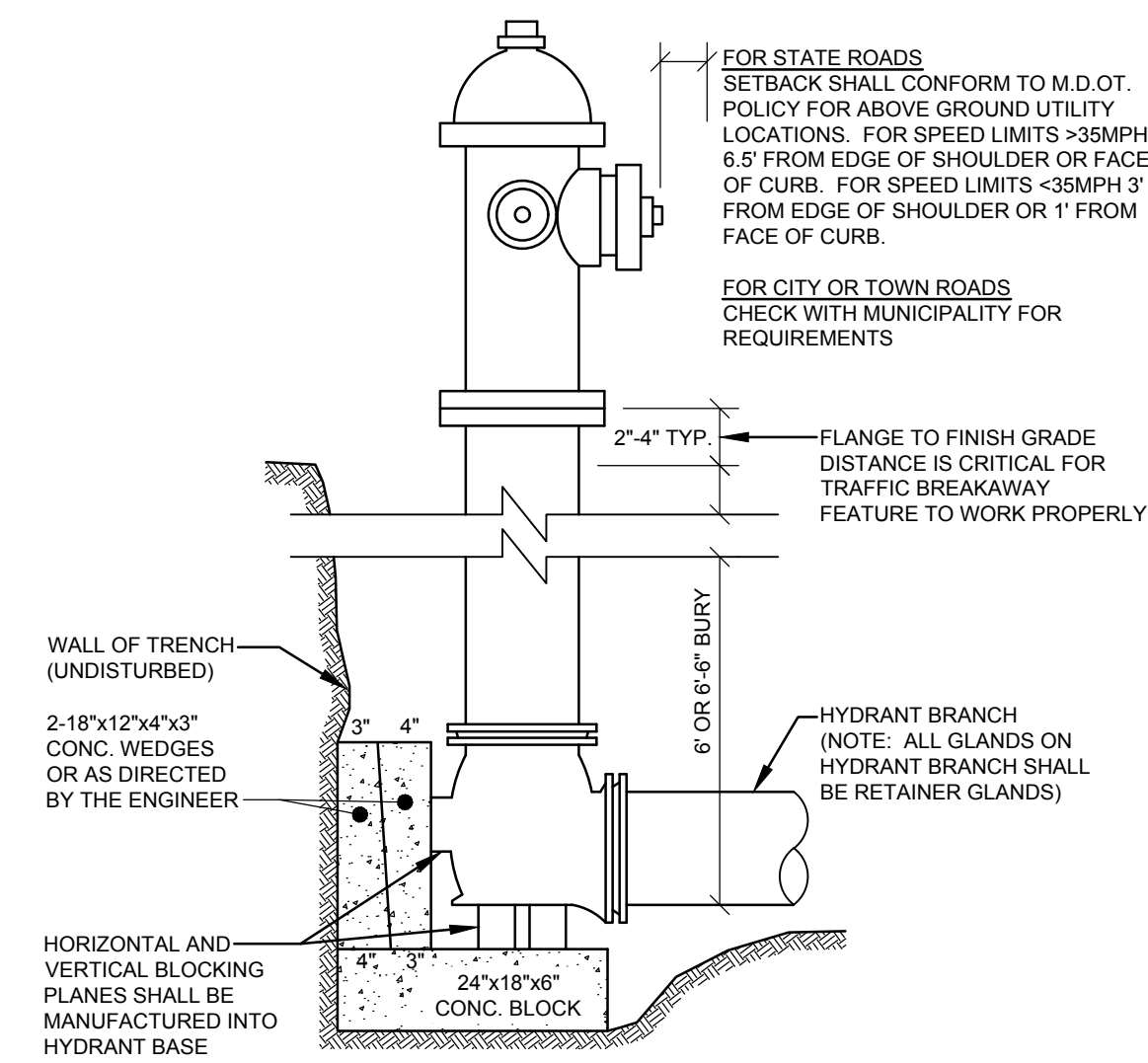
TRENCH SECTION
NOT TO SCALE



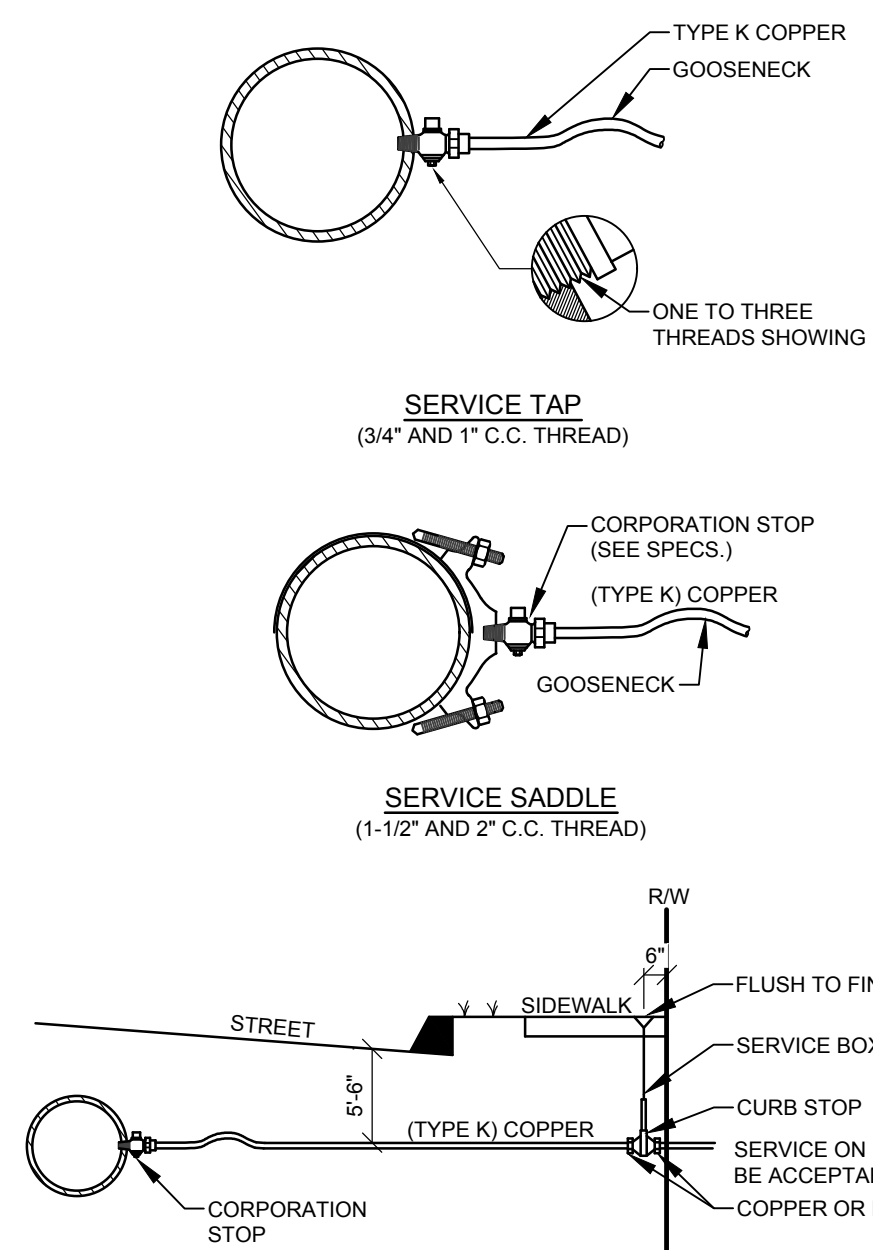
STANDARD BEND BLOCKING
NOT TO SCALE



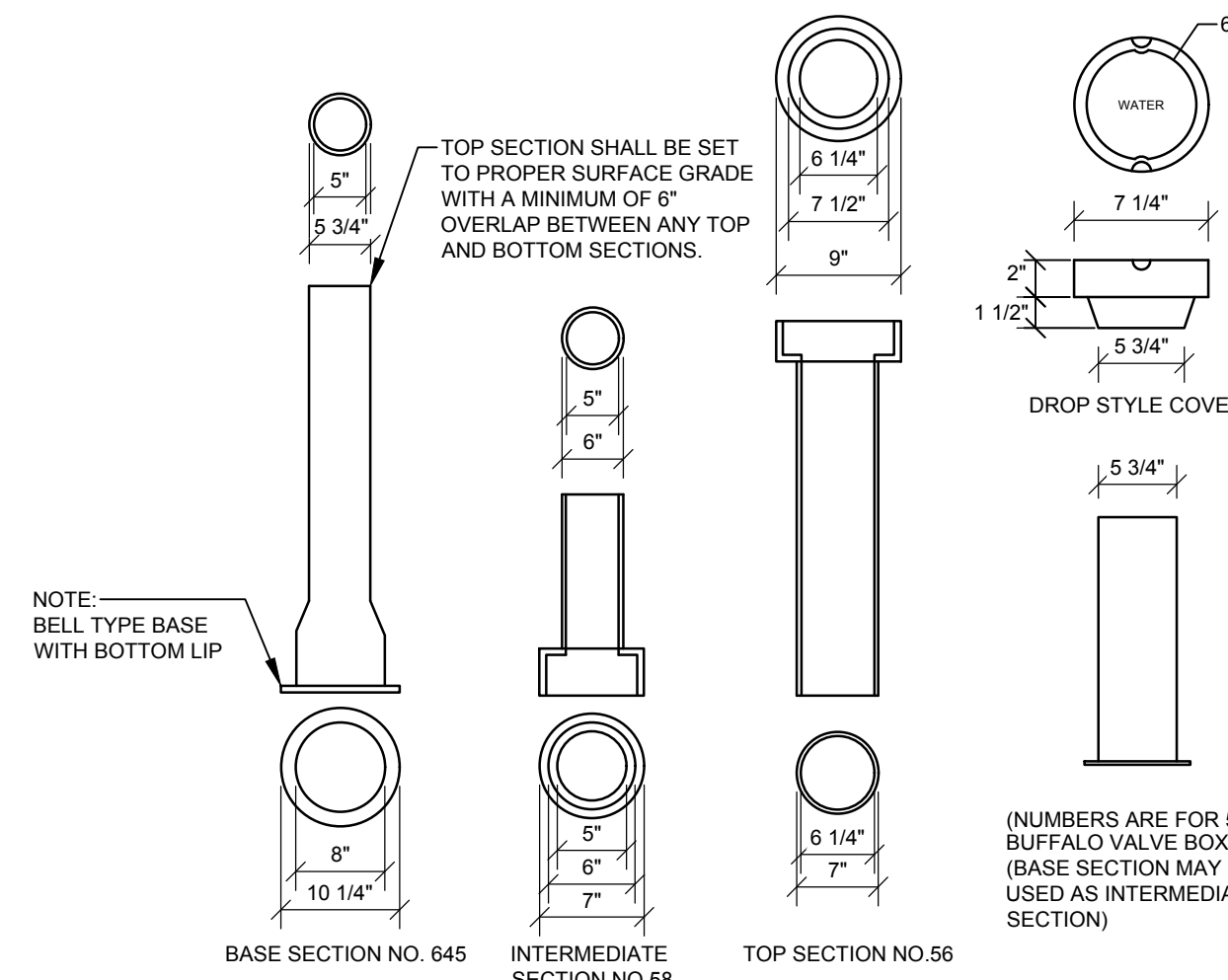
FIRE HYDRANT LOCATION
NOT TO SCALE



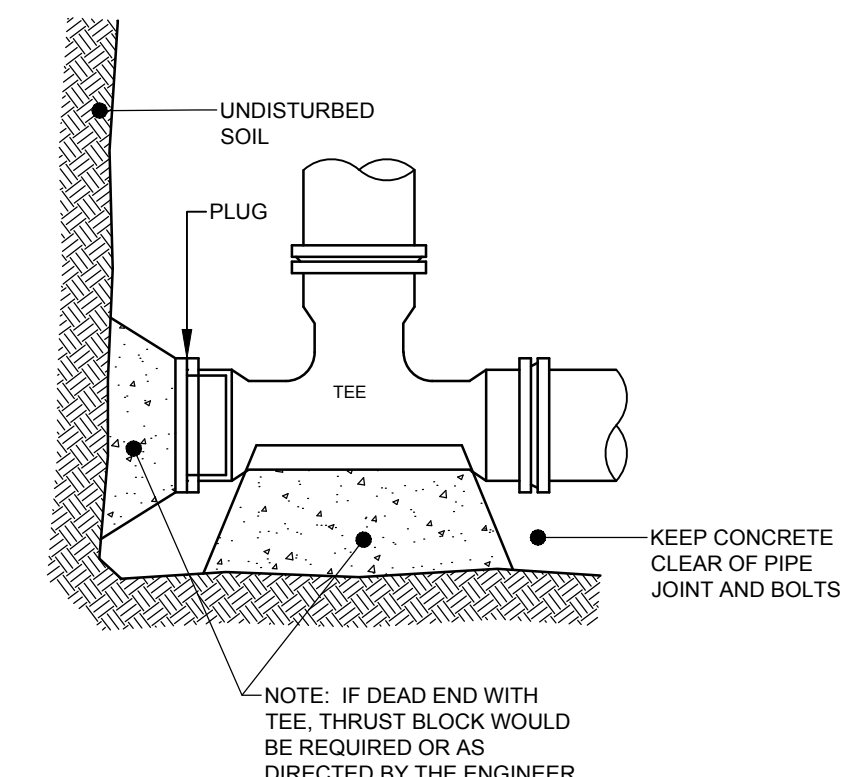
HYDRANT INSTALLATION
NOT TO SCALE



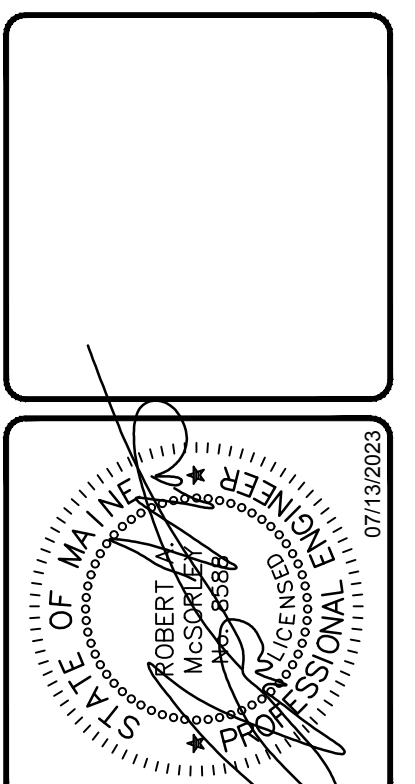
SERVICE CONNECTION
NOT TO SCALE



VALVE BOX & COVER
NOT TO SCALE



STANDARD TEE BLOCKING
NOT TO SCALE



REV	BY	DATE	STATUS
I	RAM	07/13/2023	REVISED PER TOWN OF RAYMOND COMMENTS
H	RAM	06/14/2023	RESUBMISSION TO THE TOWN OF RAYMOND & MDEP
G	RAM	12/05/2022	MDEP - CORRECT CONTROL STRUCTURE BLEEDERS
F	RAM	10/20/22	REVISED PER PWD
E	RAM	10/12/22	REVISED PER PWD AND ARCHITECTURAL COORDINATION
D	RAM	9/21/22	ADD WAIVER REQUEST
C	RAM	9/14/22	REVISED PER TOWN OF RAYMOND COMMENTS
B	RAM	08/24/22	STATUS
A	RAM	08/24/22	STATUS

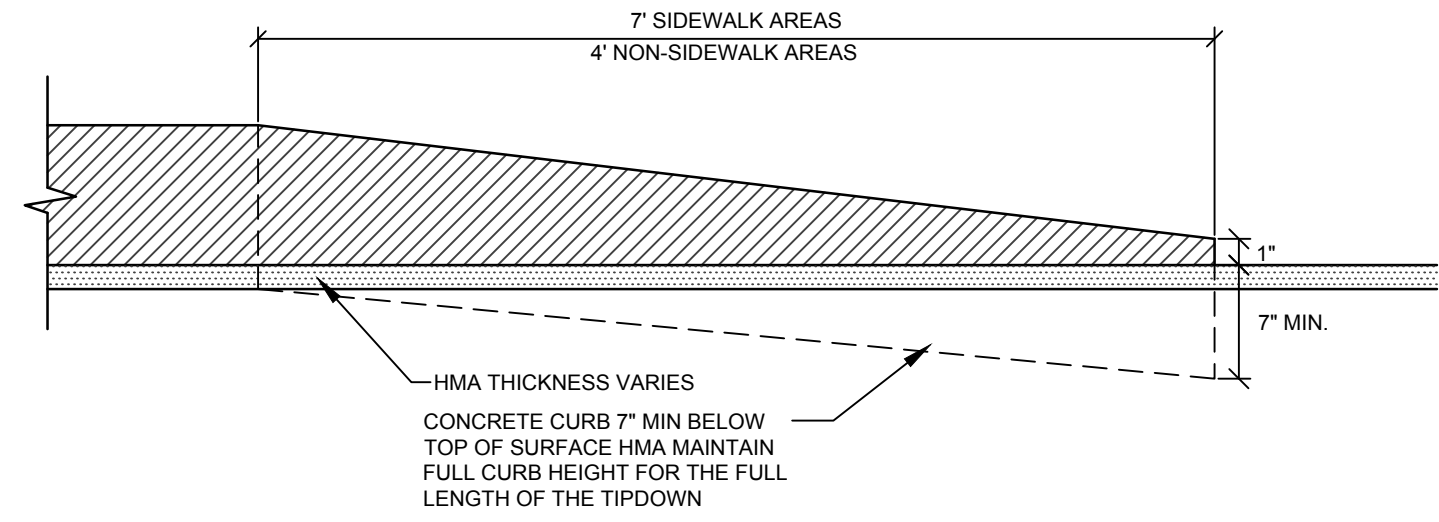
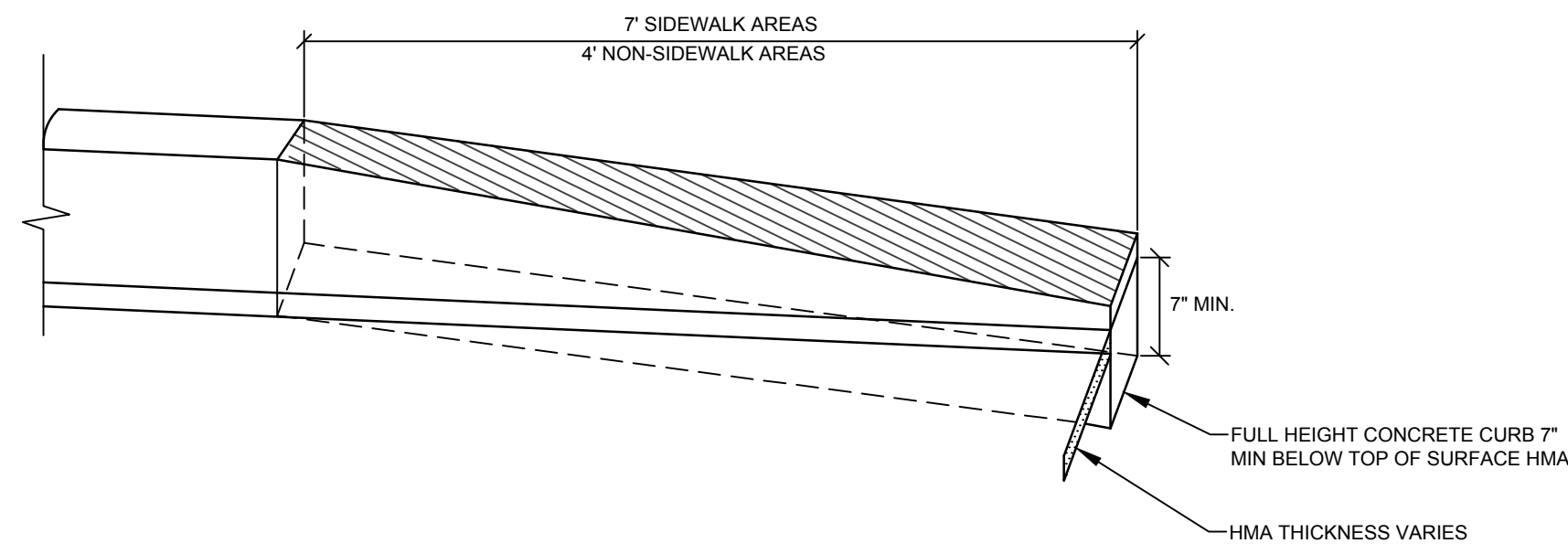
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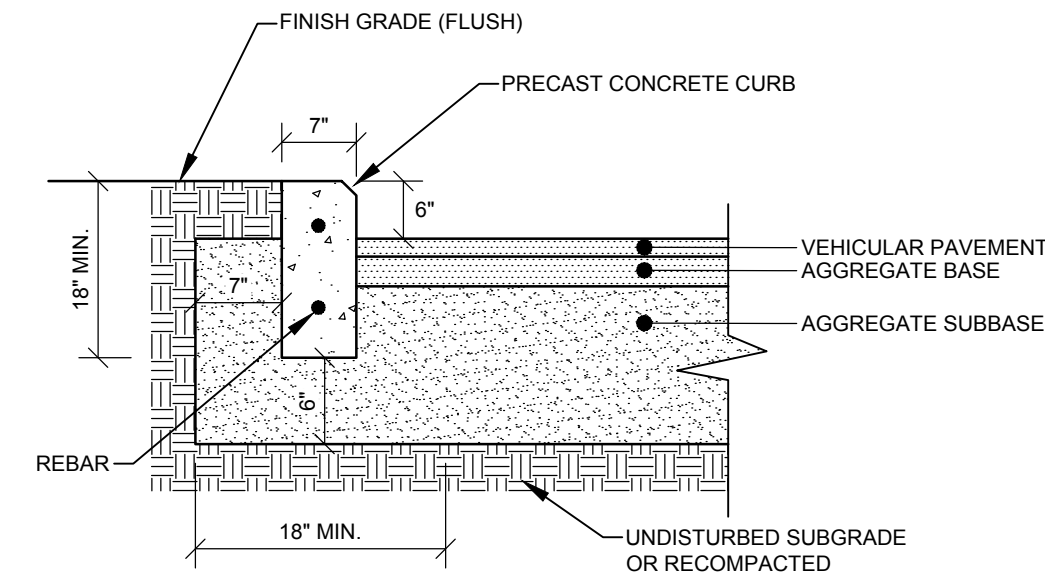
DETAILS
OF:
JORDAN BAY MARINA
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DESIGNED	JSH
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SCALE	NTS
PROJECT	14265-02

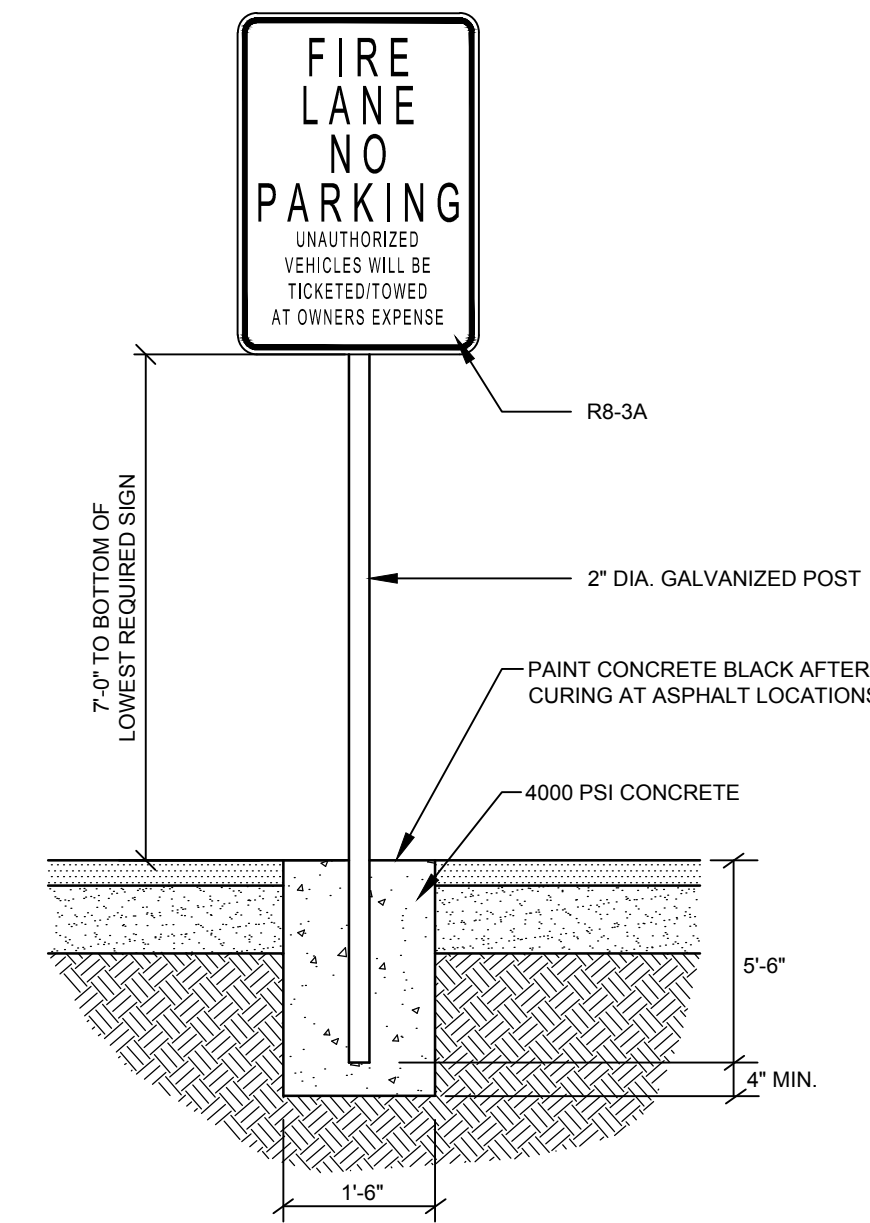
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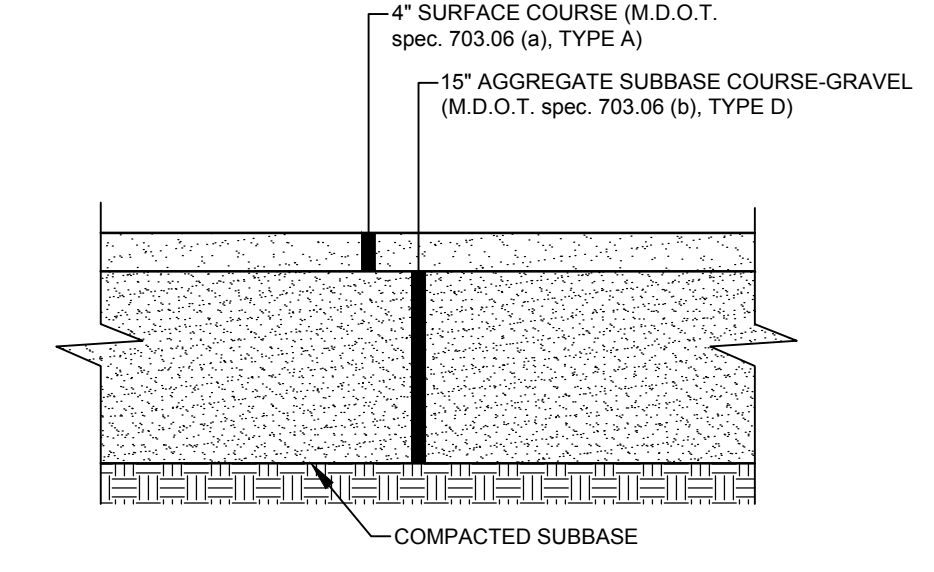
SLIPFORM CONCRETE CURB TIPDOWN, TYPICAL
NOT TO SCALE



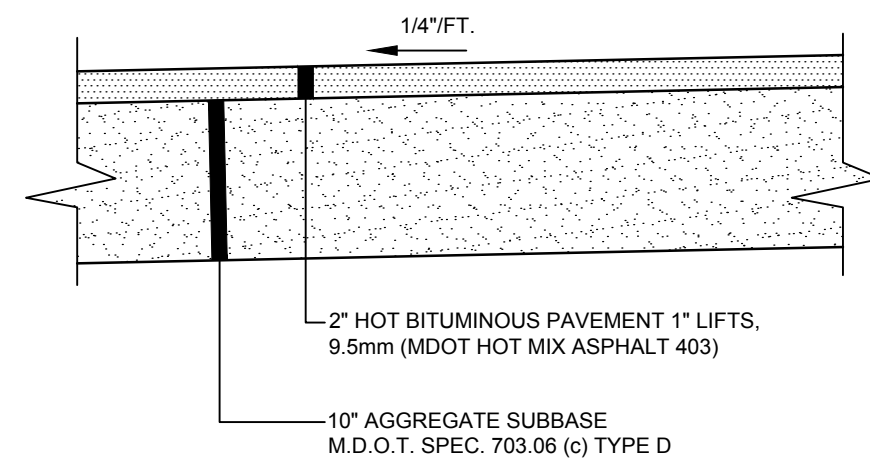
PRECAST CONCRETE CURB
NOT TO SCALE



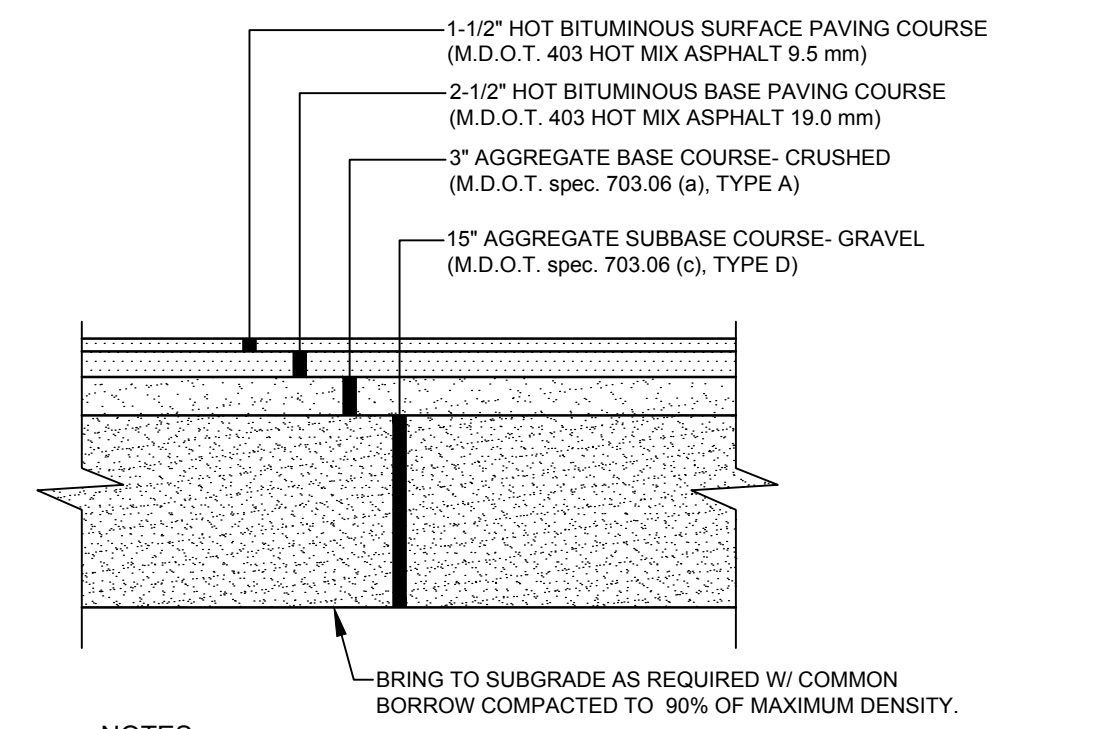
FIRE LANE SIGN
NOT TO SCALE



GRAVEL PARKING AREA
NOT TO SCALE

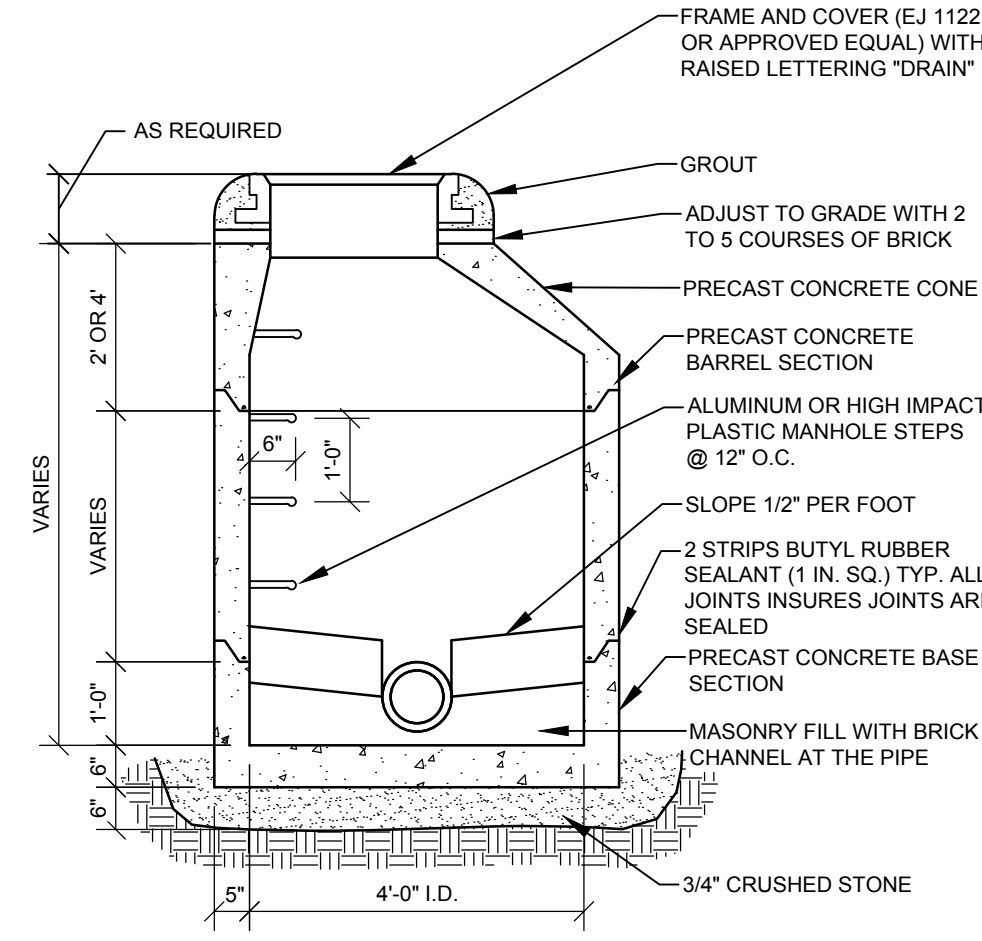


BITUMINOUS SIDEWALK
NOT TO SCALE



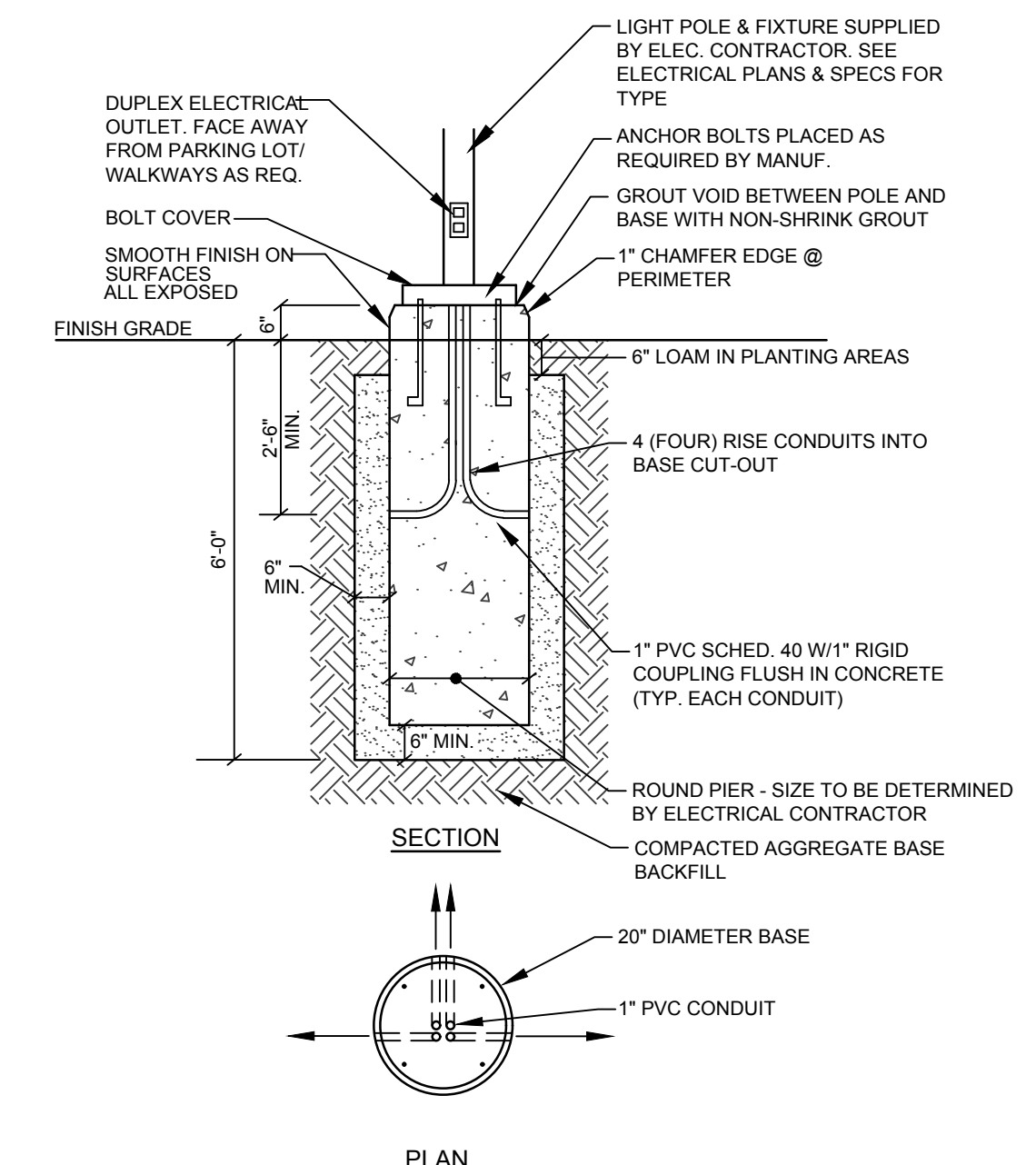
- NOTES:**
1. COMPACT GRAVEL SUBBASE, BASE COURSE TO 92% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.
 2. CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION REFERENCE.
 3. CONTRACTOR MAY REPLACE BITUMINOUS PAVING SECTION WITH TWO (2) 1-3/4" LIFTS OF 12.5mm SUPERPAVE MIX. SUBMIT PAVEMENT MIX DESIGN PRIOR TO CONSTRUCTION.

PAVED PARKING LOT SECTION
NOT TO SCALE



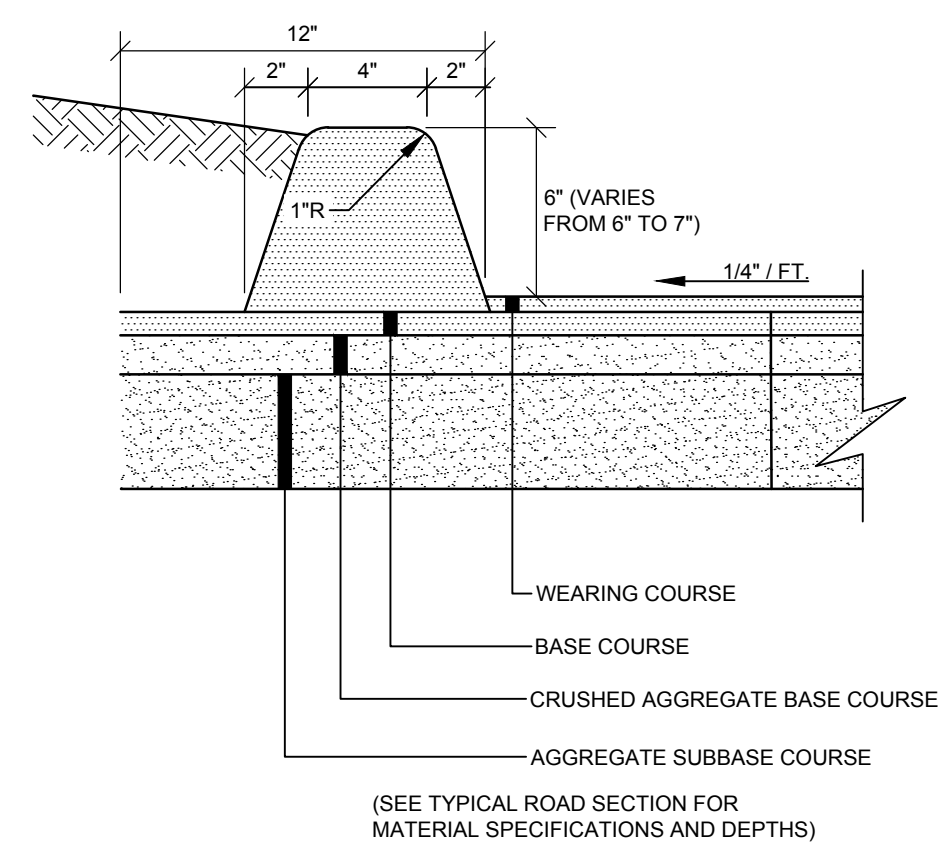
- NOTES:**
1. DRAINAGE STRUCTURES TO BE DESIGNED FOR H-20 LOADING.
 2. PIPE SIZES AND INVERTS AS NOTED ON PLANS.
 3. PIPE CONNECTIONS SHALL BE WATERTIGHT FLEXIBLE BOOT CONNECTORS.

PRECAST MANHOLE (DMH)
NOT TO SCALE



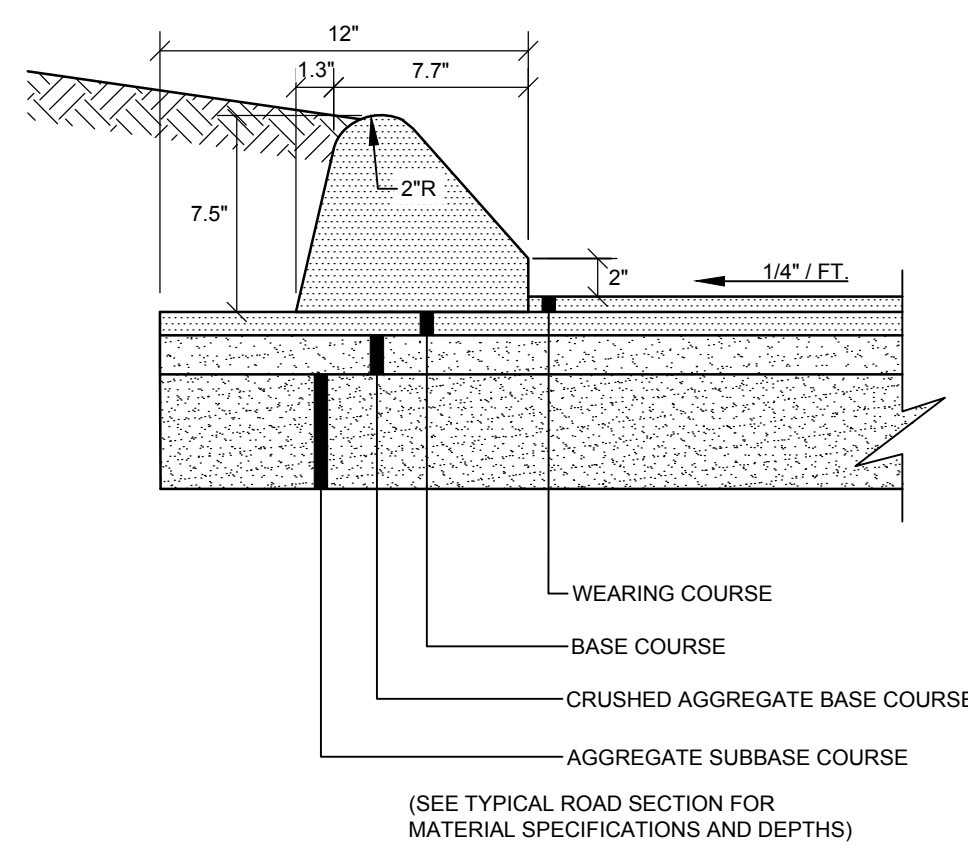
- NOTES:**
1. CONCRETE F_c = 5000 psi @ 28 DAYS WITH STEEL REINFORCEMENT
 2. CONDUIT AND ANCHOR BOLTS PLACED AS REQUIRED PROVIDED BY ELECTRICAL CONTRACTOR
 3. PROVIDE 2 COATS BITUMINOUS DAMPROOFING FOR ALL CONCRETE BELOW GRADE
 4. INSTALL BASE 3'-0" ABOVE FINISH GRADE IN LOCATIONS WHERE POLES ARE IN PARKING LOT PAVEMENT.
 5. LIGHT POLE BASE AS MANUFACTURED BY SUPERIOR CONCRETE OR APPROVED EQUAL

20" ROUND LIGHT POLE BASE
NOT TO SCALE

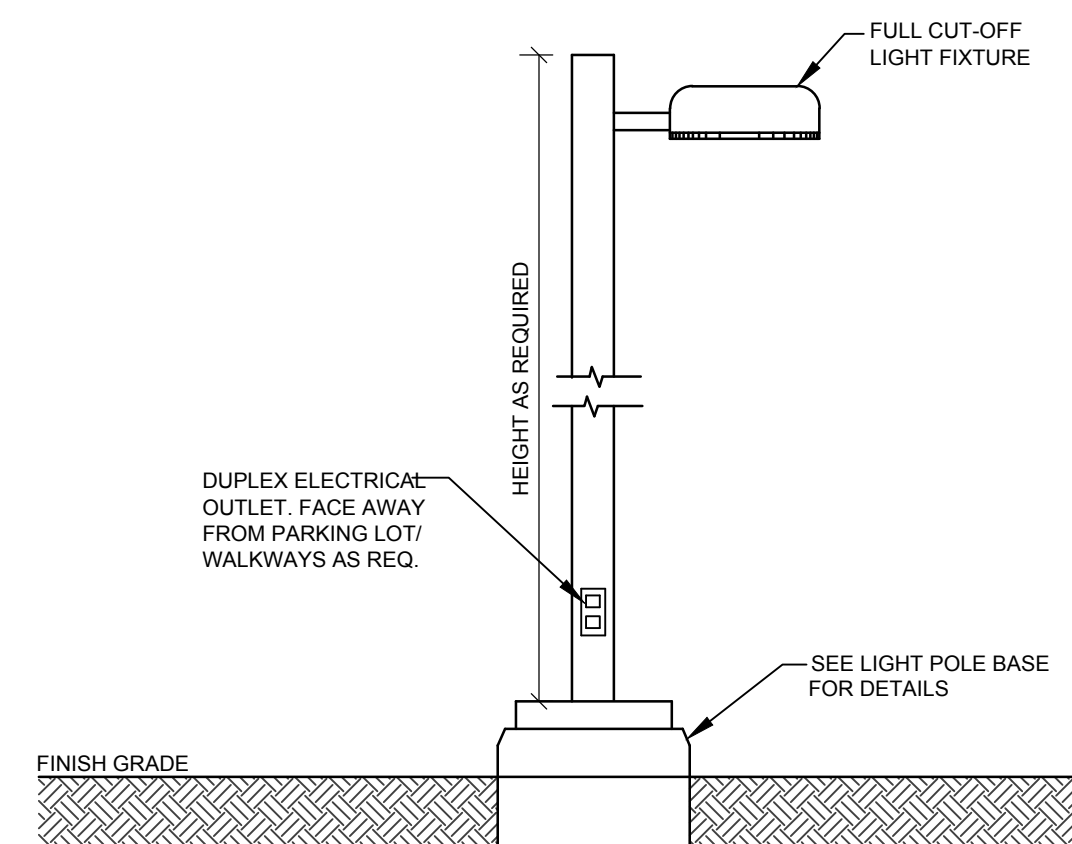


MOLD 1

BITUMINOUS CURB SECTION
NOT TO SCALE

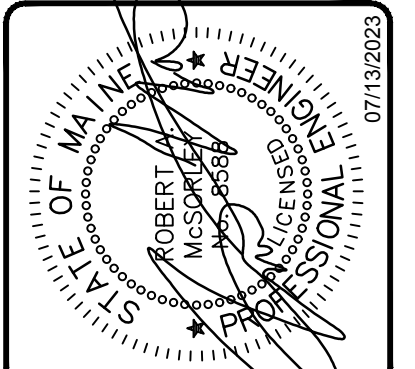


MOLD 2



POLE MOUNTED LIGHT FIXTURE
NOT TO SCALE

NOTE: LIGHTS SHALL BE SHIELDED AND EMIT NO MORE THAN 1.0 FOOT-CANDLES AT PROPERTY LINE



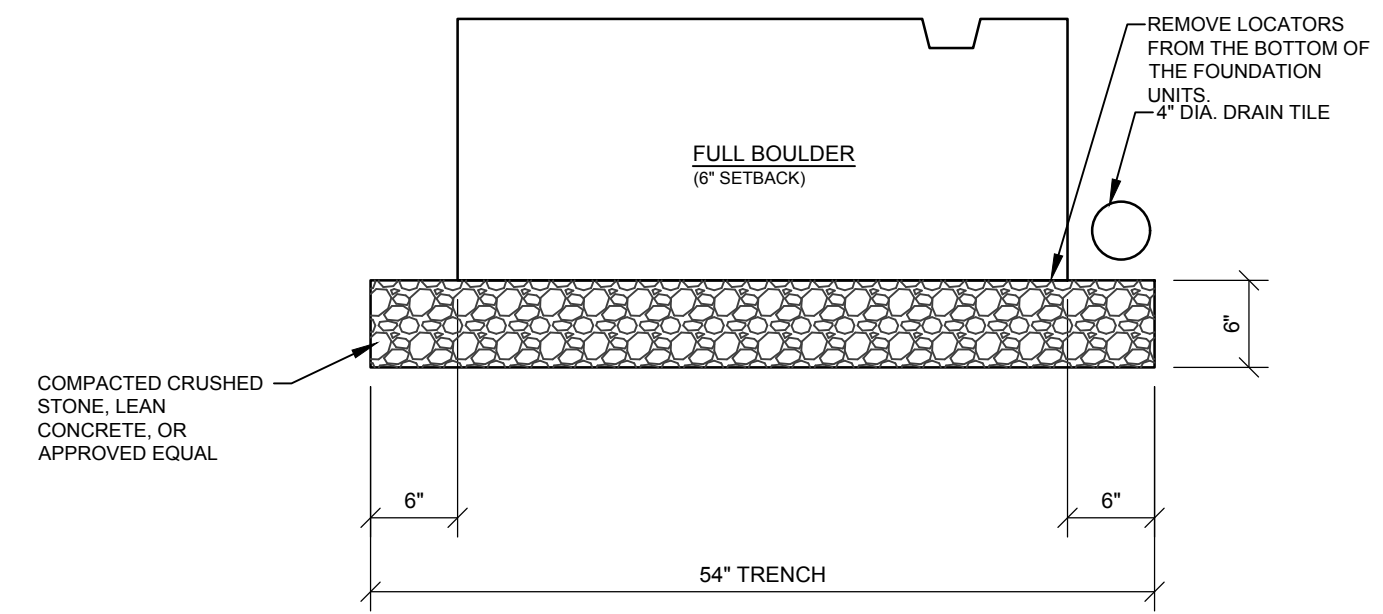
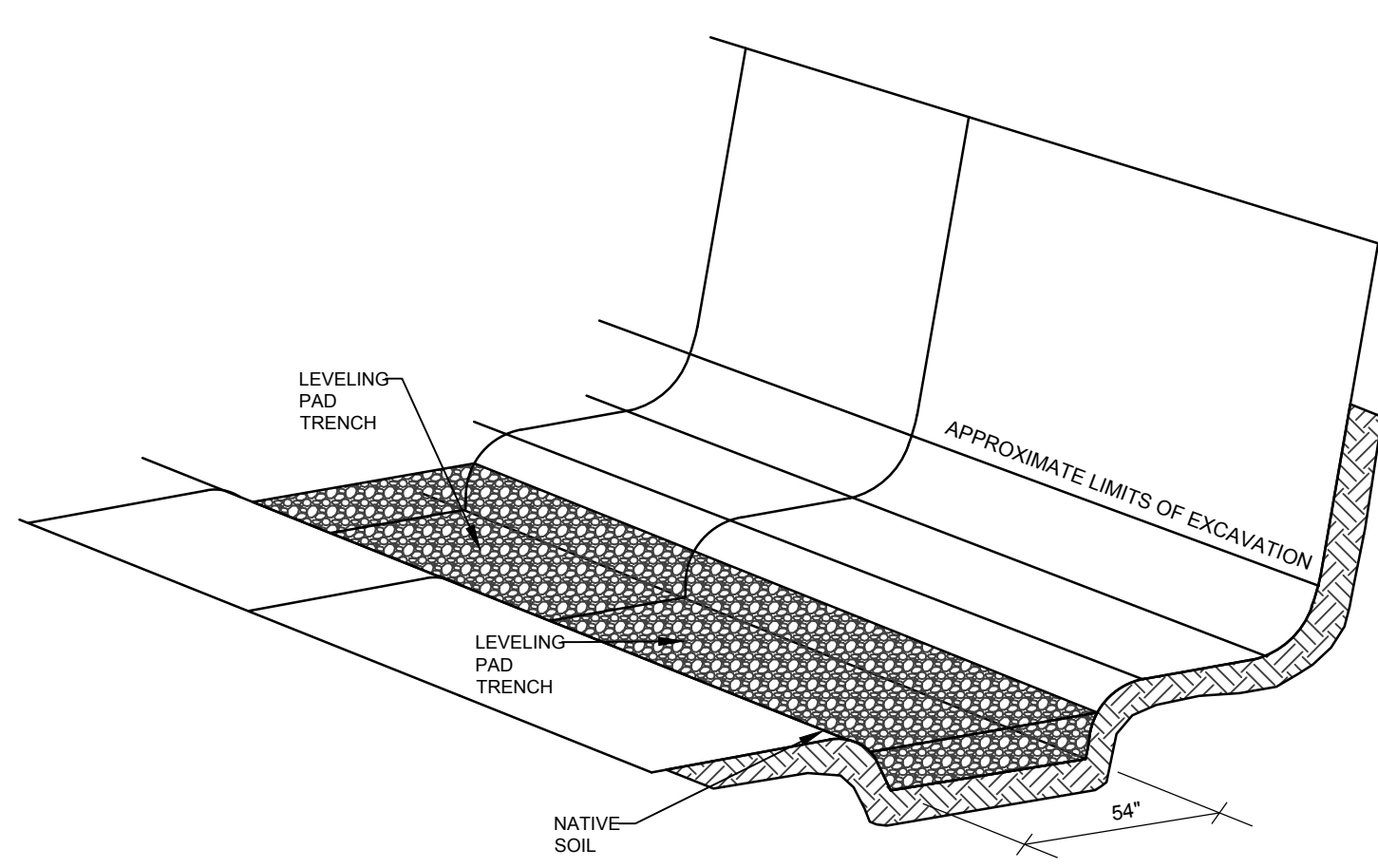
REV.	BY	DATE	STATUS
I	RAM	07/13/2023	REVISED PER TOWN OF RAYMOND COMMENTS
H	RAM	06/14/2023	RESUBMISSION TO THE TOWN OF RAYMOND & WDEP
G	RAM	12/05/2022	MDEP - CORRECT CONTROL STRUCTURE BLEEDERS
F	RAM	10/20/22	REVISED PER PWD
E	RAM	10/12/22	REVISED PER PWD AND ARCHITECTURAL COORDINATION
D	RAM	9/21/22	ADD WAIVER REQUEST
C	RAM	9/14/22	REVISED PER TOWN OF RAYMOND COMMENTS

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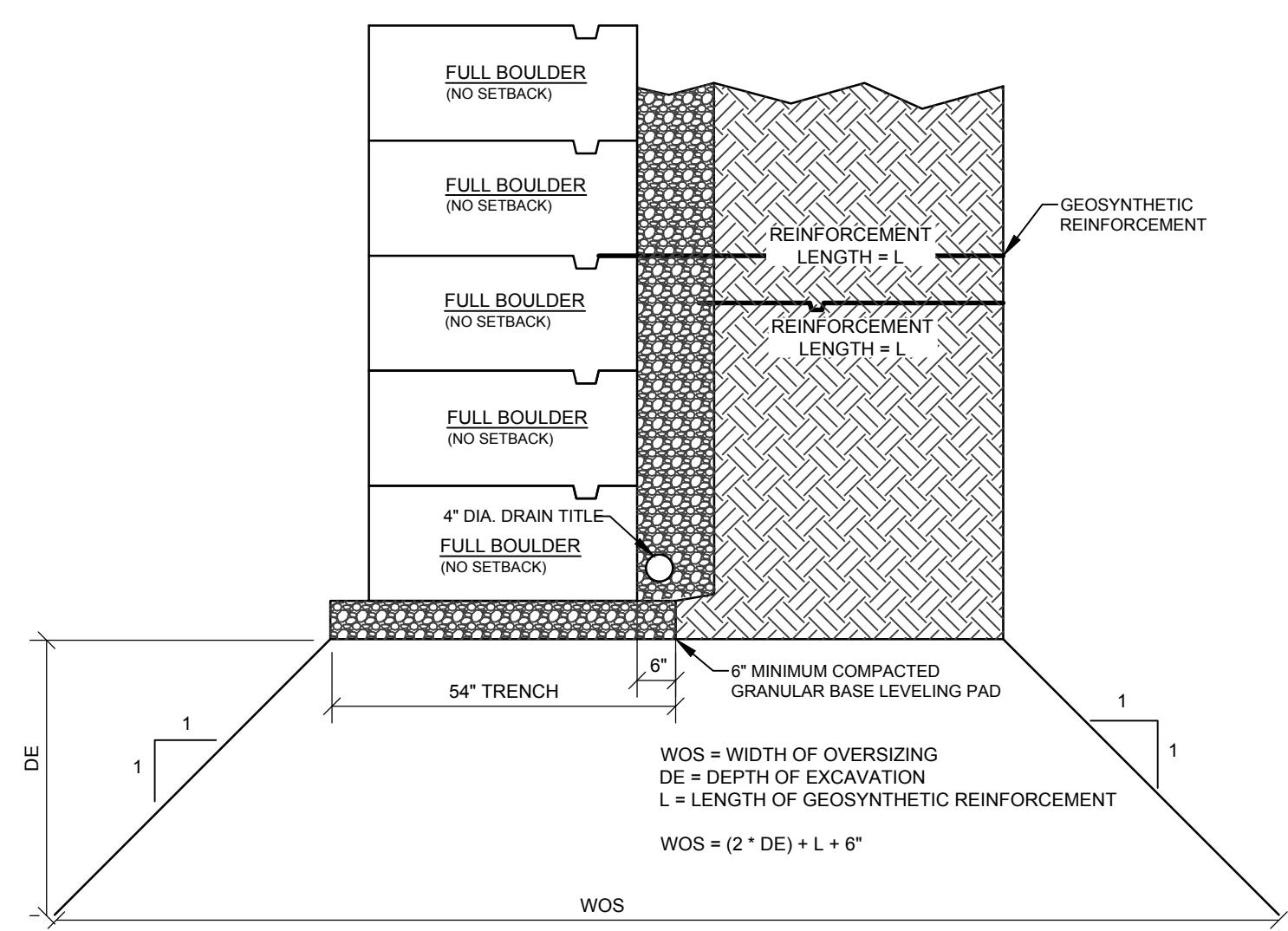
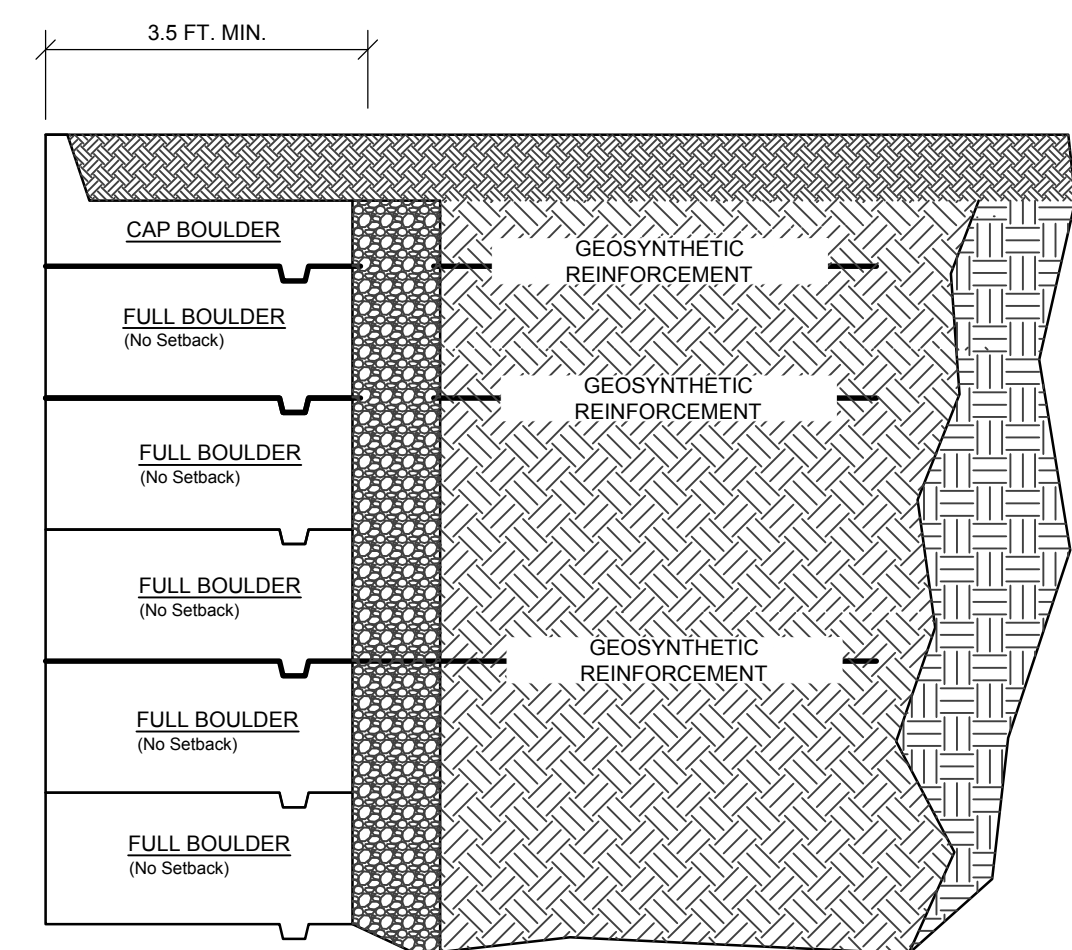
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WWW.SEBAGOTECHNICS.COM
75 Sibley Roberts Rd.
Sullivan, IA
South Portland, ME 04106
Tel. 207-207-2100

DETAILS
OF:
JORDAN BAY MARINA
1328 ROOSEVELT TRAIL
RAYMOND, ME
FOR:
PORT HARBOR MARINE
1 SPRING POINT DRIVE
SOUTH PORTLAND, ME 04106

DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	NTS
PROJECT	14265-02

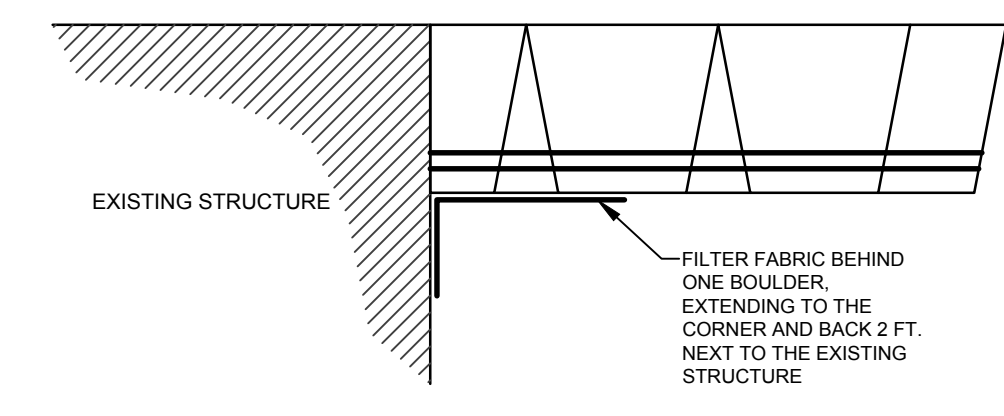
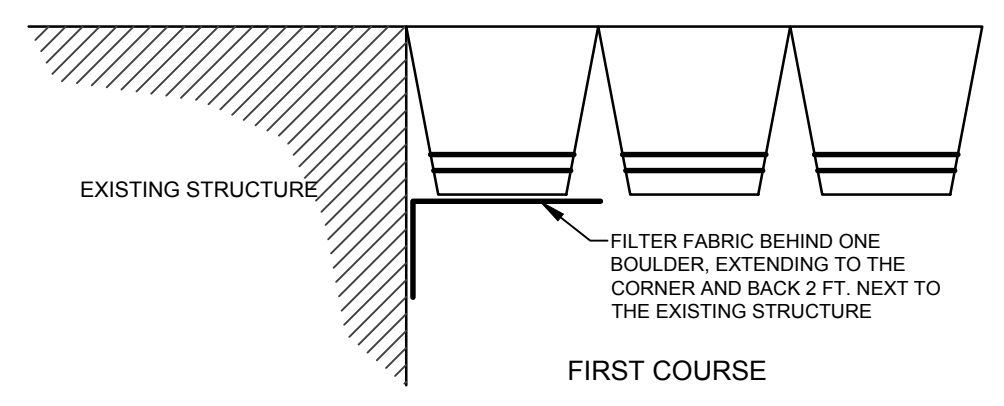


TYPICAL BASE PREPARATION
NOT TO SCALE

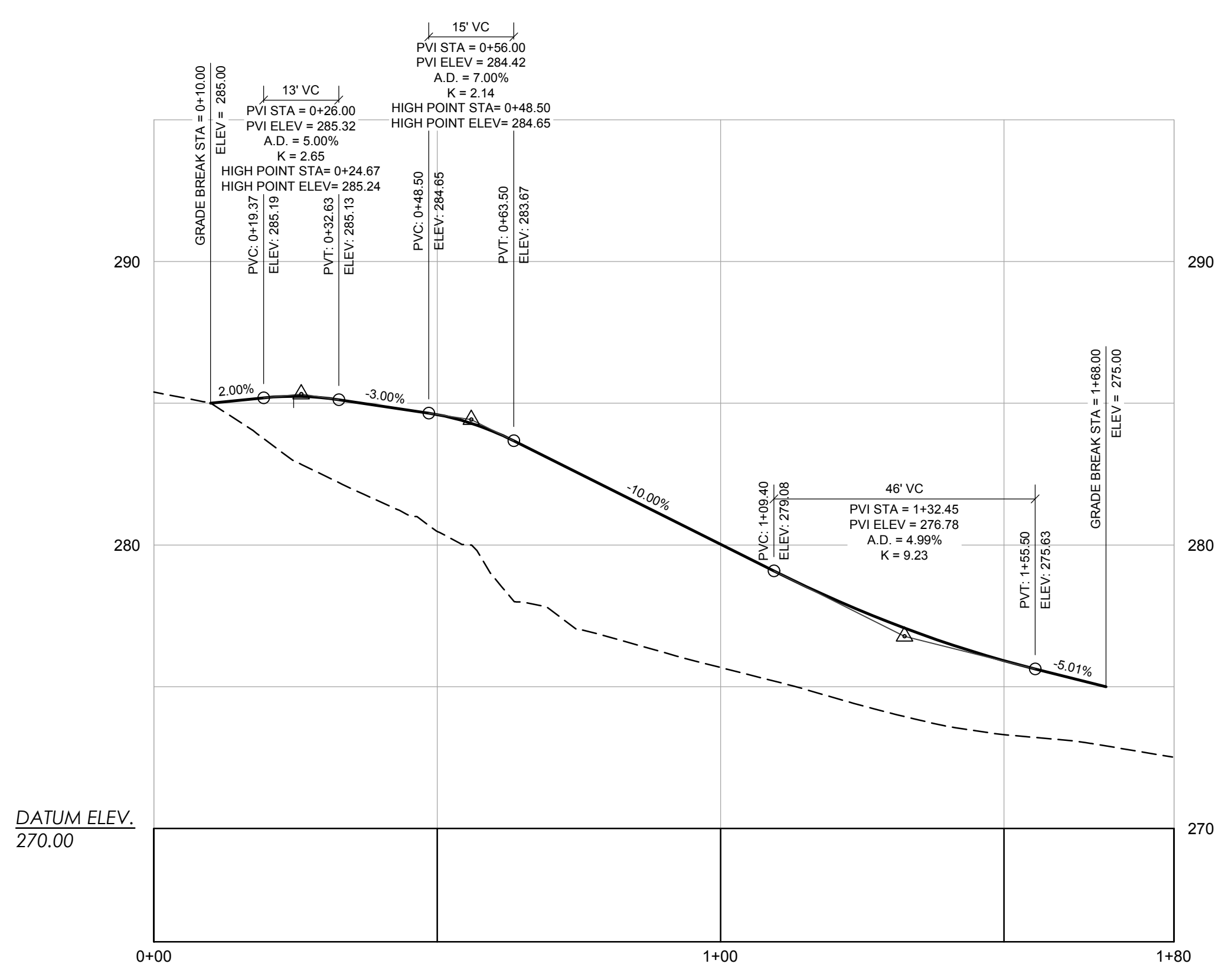


1:1 EXCAVATION OVERSIZING - REINFORCED WALLS
NOT TO SCALE

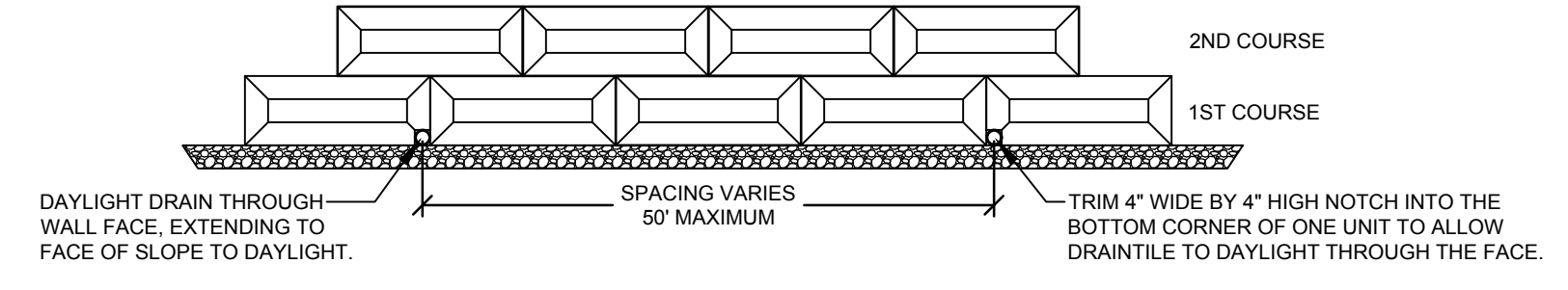
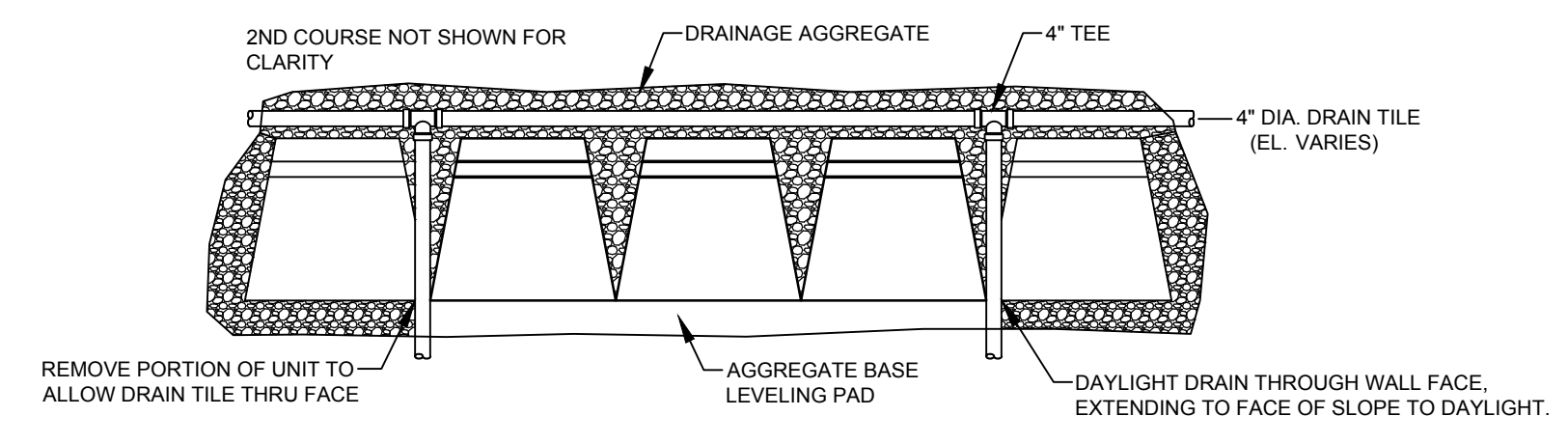
WOS = WIDTH OF OVERSIZING
DE = DEPTH OF EXCAVATION
L = LENGTH OF GEOSYNTHETIC REINFORCEMENT
 $WOS = (2 \cdot DE) + L + 6"$



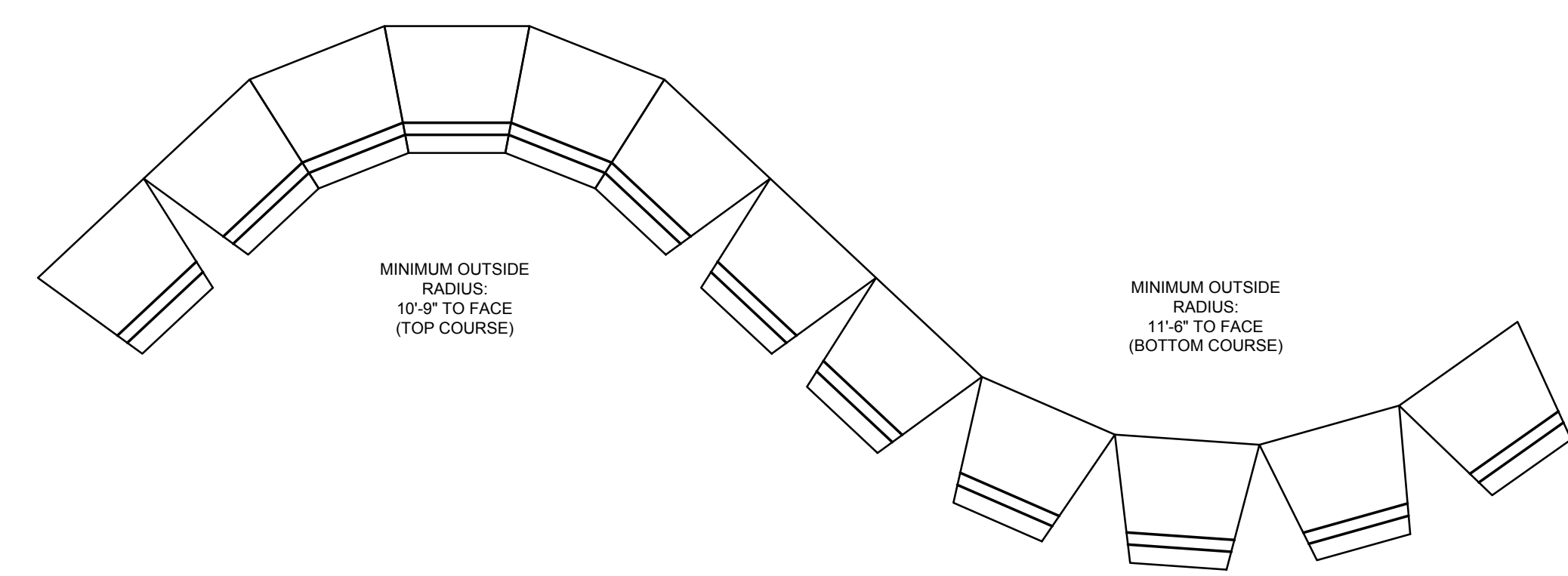
WALL ABUTTING EXISTING STRUCTURE
NOT TO SCALE



ACCESSWAY PROFILE



DAYLIGHT DRAINTILE THROUGH TOE SLOPE
NOT TO SCALE



TYPICAL RADIUS LAYOUTS
NOT TO SCALE

ROBERT A. MRSORLEY, P.E. 6888
Professional Engineer
State of Maine
License No. 10000
07/13/2023

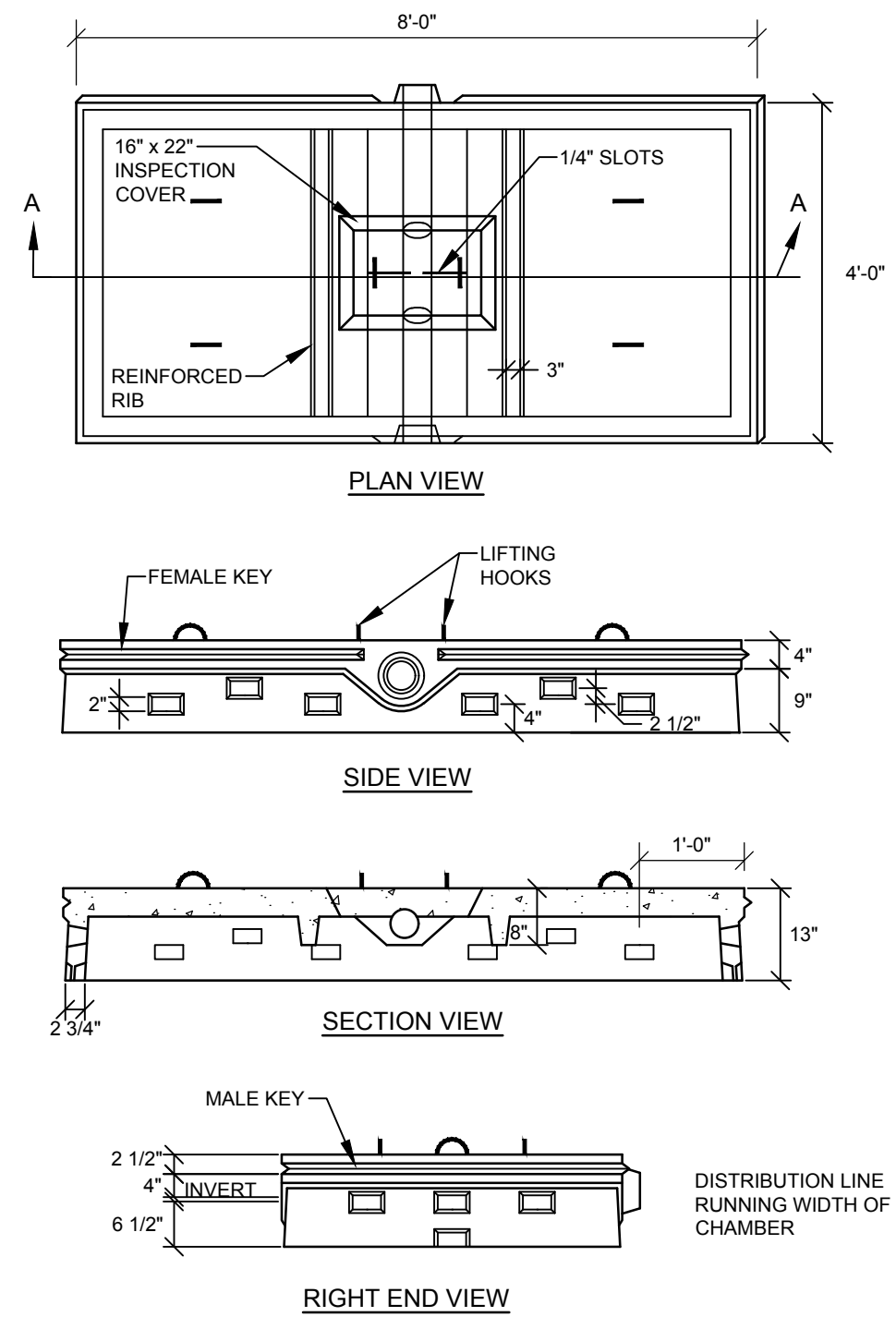
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75 John Roberts Rd.
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Tel. 207-200-2100

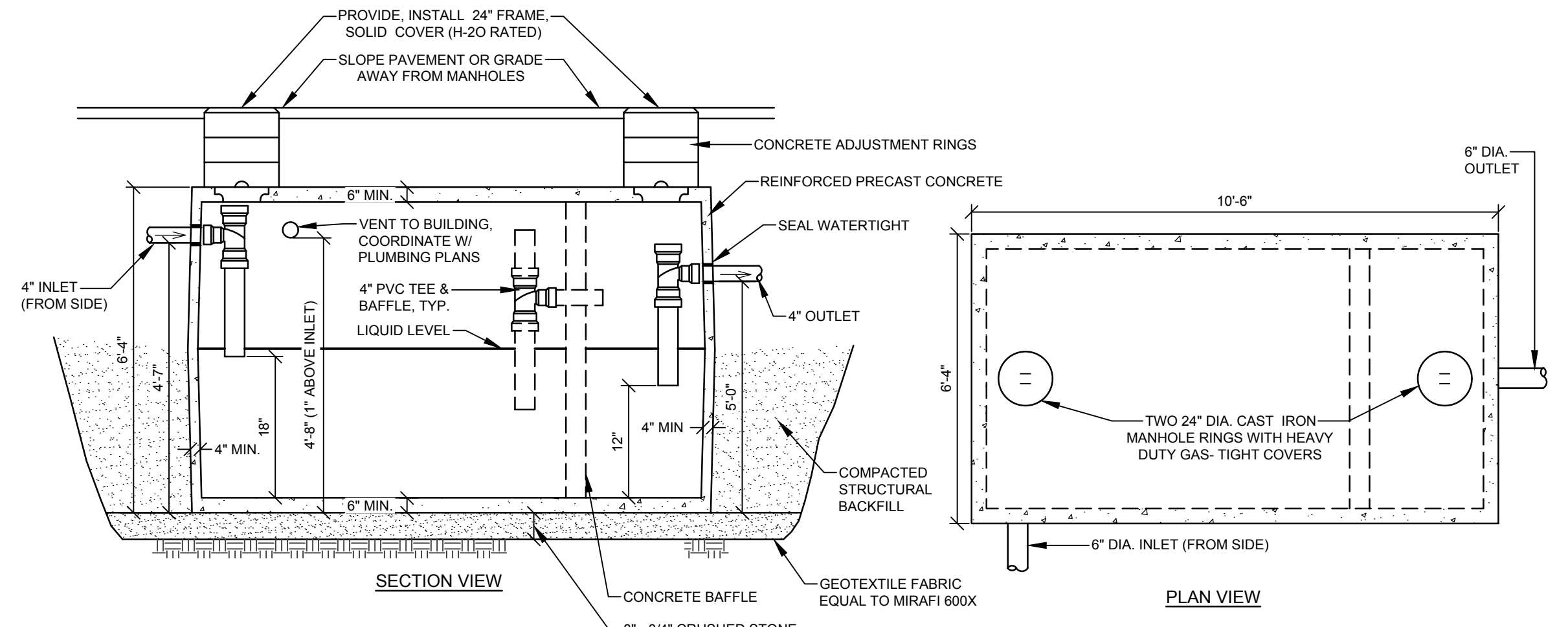
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DESIGNED	JSH
DRAWN	DAB
CHECKED	RAM
DATE	06/22/22
SCALE	NTS
PROJECT	14265-02



- NOTES:**
1. CONCRETE : 4,000 P.S.I. @ 28 DAYS.
 2. WEIGHT PER UNIT APPROX. 1,900 LBS.
 3. DESIGN LOAD 600 PSF H-20 WHEEL LOADING AVAILABLE.

CHAMBER DETAIL
NOT TO SCALE



CAPACITY	LENGTH	WIDTH	HEIGHT	INLET	OUTLET
2,000 GAL.	10'-6"	6'-4"	6'-4"	4'-7"	4'-4"

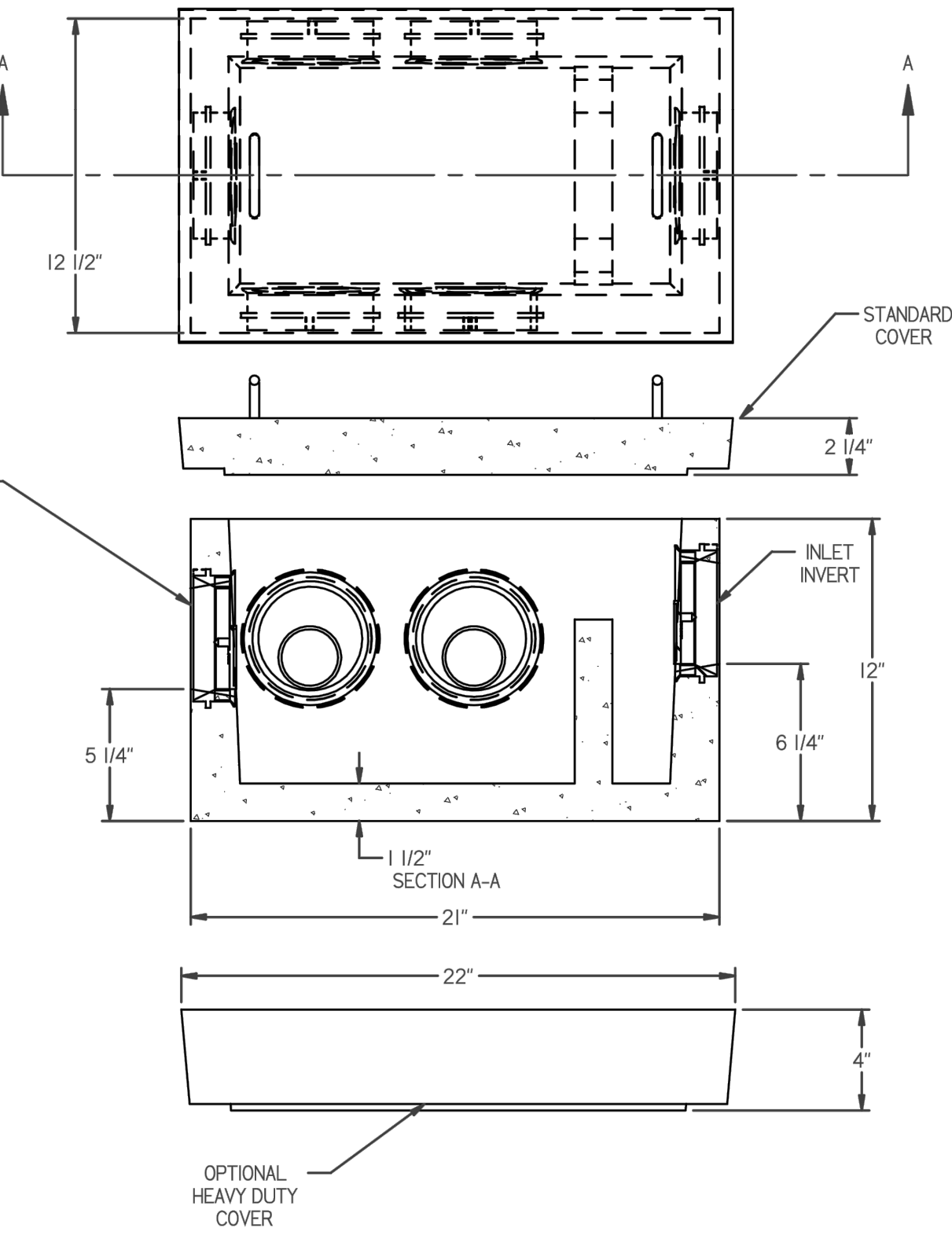
- NOTES:**
1. COAT INTERIOR OF TANK WITH EPOXY SEALER.
 2. ALL CONCRETE HAS A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI @ 28 DAYS.
 3. SHALL BE DESIGNED FOR H-20 LOADINGS.
 4. THE TONGUE AND GROOVE CENTER SEAM IS SEALED WITH A BUTYL SEALANT.
 5. THE PVC TEE BAFFLES FOR THIS TANK CAN BE MOVED TO ANY OF THE (3) INLETS OR OUTLETS.
 6. POLYLOK PIPE SEALS STANDARD AT ALL PIPE PENETRATIONS.
 7. DETAIL SHOWS GENERAL SCHEMATIC REQUIREMENTS. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATIONS TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION OF INTERCEPTOR. PROVIDE INTERCEPTOR WITH ADEQUATE STRUCTURAL STRENGTH TO ACCOMMODATE VEHICULAR TRAFFIC AT INSTALLATION LOCATION.
 8. COAT EXTERIOR OF CONCRETE WITH BITUMASTIC SEALANT.
 9. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS.
 10. SEE UTILITY PLANS FOR INLET AND OUTLET PIPE SIZES AND INVERTS.
 11. GREASE TRAP TO BE 1,500 GAL. DOUBLE COMPARTMENT AS MANUFACTURED BY GENEST PRECAST OR APPROVED EQUAL.

- STRUCTURAL NOTES:**
1. CONCRETE
 - a) 28 DAY COMPRESSIVE STRENGTH F'C= 4,000 PSI.
 - b) CEMENT TO BE TYPE III PER ASTM C-150
 - c) 4%-6% ENTRAINED AIR
 2. STRUCTURAL REINFORCEMENT
 - a) REINFORCED FOR H-20 LOADING
 - b) BAR CLEARANCE/PROTECTION:
 - a) 1 1/2" CLR. (UNLESS OTHERWISE NOTED)

- INSTALLATION REQUIREMENTS:**
1. TO BE INSTALLED ON MIN. 8" THICK BED OF CRUSHED 3/4" STONE.
 2. USE 1" CON. SEAL 102 AT JOINTS.
 3. JOINT GAPS LESS THAN 0.5". GROUT TO FILL VOIDS.

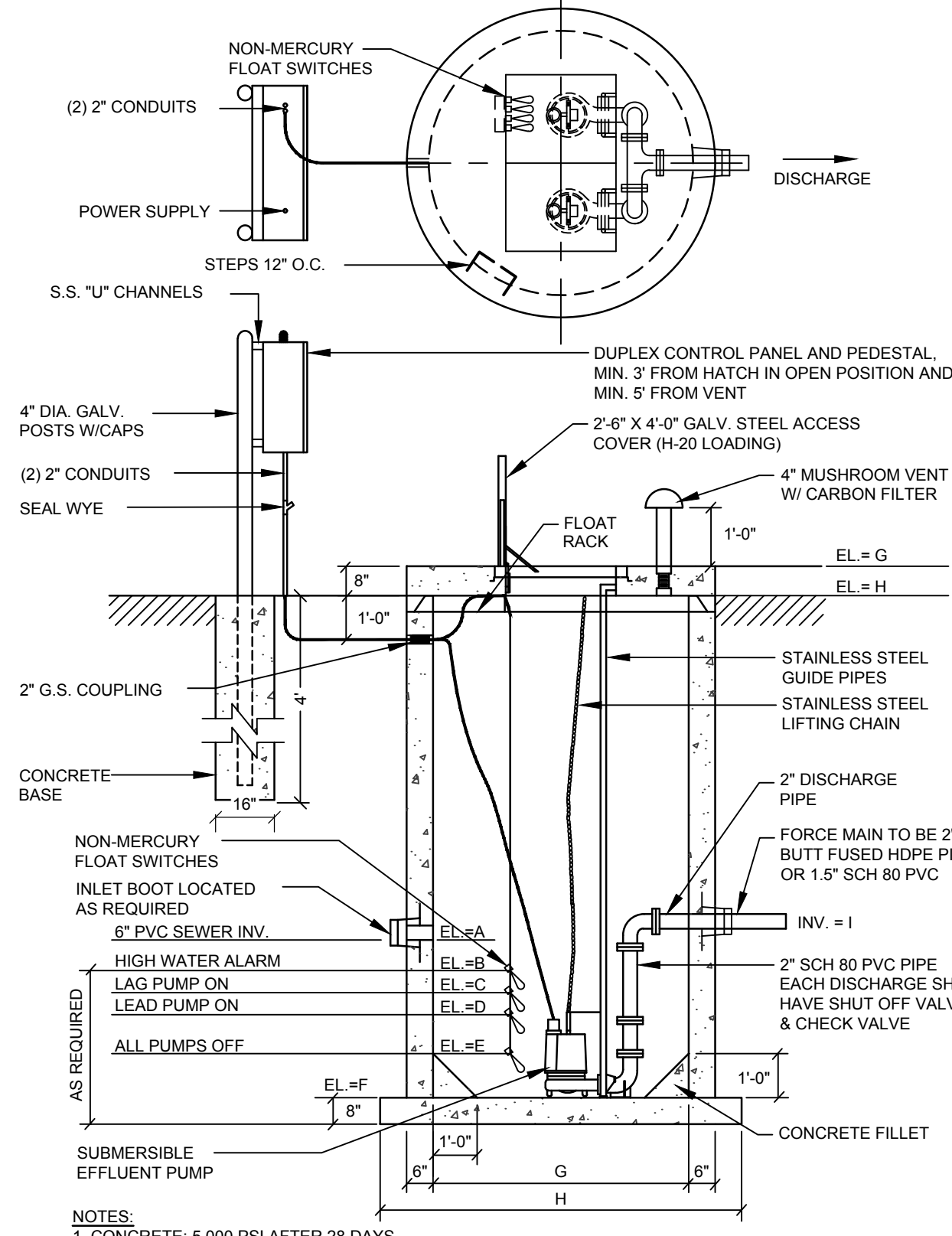
- GENERAL NOTES:**
1. ALL BAFFLES AND WEIRS TO BE PRECAST CONCRETE.
 2. CONTRACTOR TO SUPPLY AND INSTALL ALL PIPING & SAMPLING TEES GROUT IN ALL PIPES FILL WITH CLEAN WATER PRIOR TO "START-UP" OF SYSTEM VERIFY ALL BLOCKOUT SIZES AND LOCATIONS. PUMP BY OTHERS.
 3. GREASE INTERCEPTOR BY AMERICAN CONCRETE OR APPROVED EQUAL.

1,500 GAL. SEPTIC TANK
NOT TO SCALE



- NOTES:**
1. CONCRETE : 4000 PSI AFTER 28 DAYS
 2. REINFORCING 6# 10/10 W.W.M. & FIBERS
 3. EXCAVATION MUST BE AT LEAST 12" WIDER AND LONGER THAN TANK SIZE

5 OUTLET D BOX
NOT TO SCALE



- NOTES:**
1. CONCRETE: 5,000 PSI AFTER 28 DAYS.
 2. REINFORCING: WALLS & FLOOR 4#x4# W.W.M. SLAB TOP #5 @ 8" O.C.

PUMP STATION
NOT TO SCALE

NOTES

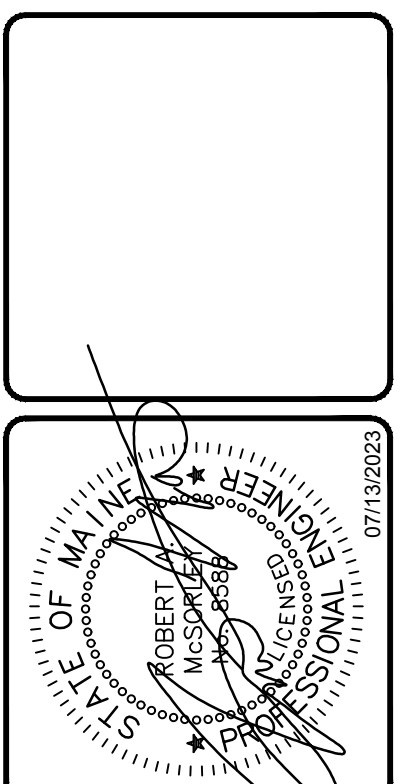
1. LIFT STATION SHALL BE DUPLEX LIFT STATION PANEL AND CONTROLS FOR THE OPERATIONS OF 1.7 HP HOMA EFFLUENT GRINDER PUMPS OPERATING AT APPROXIMATELY THE DUTY POINT LISTED IN THE TABLE BELOW. THE PUMPS ARE MODEL TP30V24Z/1, 1PHASE, 60 HZ, 230 VOLT, 3450 RPM AND 8.0 FLA WITH THE INSTALLED IMPELLER.
2. PUMPS SHALL HAVE BREAK AWAY FITTINGS.
3. ALL UNDERGROUND ELECTRIC POWER LINES SHALL BE INSTALLED IN PVC CONDUIT. ABOVE GROUND SERVICES SHALL BE INSTALLED IN SCHEDULE 40 GALVANIZED CONDUIT. SIZES AS REQUIRED BY ELECTRIC COMPANY. ALL ELECTRICAL WIRING SHALL MEET ALL LOCAL AND NEC ELECTRICAL CODE REQUIREMENTS.
4. THE PANEL SHALL BE EQUIPPED WITH AN INNER DOOR THAT HAS ELAPSED TIMED METERS, WARNING LIGHTS FOR TEMPERATURE AND MOISTURE SENSORS, CONTROL SWITCHES FOR THE INDIVIDUAL PUMPS (AUTO, OFF AND RUN) AND A CONTROL SWITCH FOR THE ALARM WITH TEST AND SILENCE.
5. THE MAIN BREAKERS (CONTROL AND PUMPS) AND FUSES FOR BOTH THE ALARM AND CONTROLS SHALL BE ACCESSIBLE WITHOUT OPENING THE INNER DOOR.
6. THE PANEL SHALL HAVE BOTH AMBER VISIBLE ALARM LIGHT AND AN AUDIBLE PIEZO 80DB ALARM. THE ENCLOSURE SHALL BE A FIBERGLASS NEMA 4X RATED, UL508 COMPLIANT LISTED ENCLOSURE RATED FOR THE PUMPS WITH A WIRING SCHEMATIC PROVIDED ON THE INNER FACE OF THE PANEL DOOR. THE DOOR SHALL HAVE A WEATHER SEAL AND LOCKABLE LATCHES.
7. THE PANEL SHALL HAVE THE REQUIRED CIRCUITRY, CONTROLLERS, CIRCUIT BREAKERS, DELAYS, MOTOR STARTERS, RELAYS, TERMINAL BLOCK AND GROUNDING REQUIRED TO OPERATE THE PUMPS IN AN ALTERNATING SEQUENCE.
8. THE PANEL SHALL BE MANUFACTURED BY SJE RHOMBUS, PRIMEX CONTROLS, CSI OR APPROVED EQUIVALENT.
9. THE PUMPS, CONTROLS, FLOATS AND FLOAT RACK SHALL BE SUPPLIED BY ONE DISTRIBUTOR OR MANUFACTURER. FLOAT SWITCHES SHALL BE INSTALLED WITH KWIK FLOAT SWITCH CONNECTION SYSTEM. DISTRIBUTOR OR MANUFACTURER SUPPLYING EQUIPMENT SHALL CONFIRM ALL EQUIPMENT MEETS THE INTENT OF THIS SPECIFICATION, AND THAT ALL EQUIPMENT SUPPLIED IS COMPATIBLE FOR THIS SPECIFIC APPLICATION. ALL EQUIPMENT SUPPLIED REQUIRING FACTORY START-UP TO OBTAIN WARRANTY SHALL BE INCLUDED AND PERFORMED BY FACTORY AUTHORIZED PERSONNEL. ANY DEFICIENCIES SHALL BE ADDRESSED PRIOR TO FINAL ACCEPTANCE.
10. PUMP POWER/CONTROL CABLES AND FLOAT CABLES SHALL BE ROUTED TO THE WET WELL IN SEPARATE CONDUITS WITH THE PROPER EXPANSION JOINTS, SEAL OFFS, AND EXPANSION JOINTS. PUMP AND FLOAT CABLES SHALL BE WIRED FORM WET WELL DIRECTLY TO PANEL WITH NO INTERMEDIATE JUNCTION BOXES. WIRE SIZING AND CONDUITS FEEDING AND LEAVING THE CONTROL PANEL SHALL BE PROPERLY SIZED, SHALL SUPPORT THE LOAD OF TWO PUMPS OPERATING AND MEET ALL APPLICABLE LOCAL, STATE AND NEC ELECTRICAL CODES.
11. PUMPS SHALL BE PROVIDED WITH TEMPERATURE AND MOISTURE SENSORS WATCHED TO THE PUMPS.
12. FLOAT CONTROLS SHALL BE NON-MERCURY MECHANICAL FLOATS.
13. CONCRETE: 5,000 PSI AFTER 28 DAYS. REINFORCING STEEL MIN. YIELD STRESS OF 40,000 PSI.
14. REINFORCING: WALLS & FLOOR 4#x4# W.W.M. SLAB TOP #5 @ 8" O.C.
15. THE ACCESS HATCH SHALL BE MANUFACTURED BY THE BILCO COMPANY OR EQUIVALENT AND BE RATED FOR H-20 LOADING. HATCH SHALL OPEN TOWARDS PUMP STATION PANEL AND HAVE INTEGRAL SECONDARY FALL PROTECTION
16. ALL LIFT STATION PIPING SHALL BE 2" SCH 80 PVC.
17. COAT INTERIOR OF STRUCTURES WITH KOPPERS BITUMASTIC 3000 M OR EQUAL.
18. WET WELL SHALL BE INSTALLED ON A MINIMUM 12" BED OF SCREENED GRAVEL.
19. CONTRACTOR TO CONFIRM OPERATING ELEVATIONS WITH ENGINEER BEFORE ORDERING STATION.
20. CONTRACTOR TO SUBMIT SPECIFICATIONS FOR PUMPS, CONTROL PANELS, AND ALARM FOR OWNER AND ENGINEERS APPROVAL.
21. ELECTRIC SERVICES SHALL BE VERIFIED BY CONTRACTOR AND COORDINATED WITH OWNER, ELECTRIC COMPANY AND PUMP STATION MANUFACTURER PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL COMPONENTS REQUIRED FOR PUMP STATION MEETING APPLICABLE STATE, FEDERAL AND LOCAL CODES.
22. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL MEET ON-SITE WITH OWNER AND ENGINEER TO REVIEW LOCATION OF PUMP STATION AND VALVE PIT. DEPENDING ON PHYSICAL SITE FEATURES, THE ENGINEER RESERVES THE RIGHT TO MODIFY LOCATION.
23. UPON INSTALLATION OF PUMP STATION, CONTRACTOR SHALL PROVIDE OWNER WITH THE FOLLOWING:
 - a. OPERATION AND MAINTENANCE MANUALS.
 - b. ONE-YEAR WARRANTY ON ALL STRUCTURES, PUMP STATION MECHANICS AND ELECTRIC COMPONENTS, ALL PIPING AND CONNECTIONS.
 - c. STARTUP REPORT THAT INCLUDES DRAW DOWN TESTS TO DETERMINE THE OPERATING POINTS FOR BOTH PUMPS.

PUMP PARAMETERS

STATION	I
PUMP	HOMA
MODEL	TP30V24Z/1
FLOW (GPM)	33
TDH (FT)	26
VOLTAGE	230
PHASE	1φ
HERTZ	60
RPM	3450

PUMP STATION SCHEDULE MEASUREMENT (FT.)

PUMP STATION	A	B	C	D	E	F	G	H	I	J	K
I	267.00	266.50	266.00	266.50	264.50	263.00	272.00	271.50	266.38	5'-0"	7'-0"

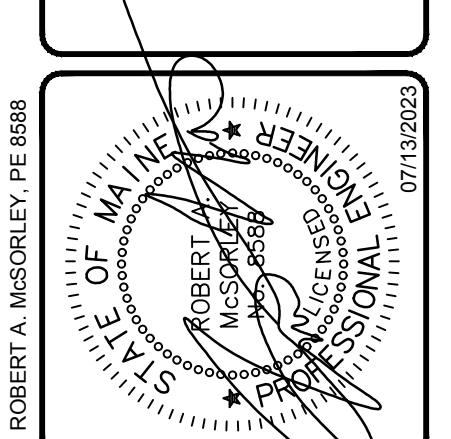
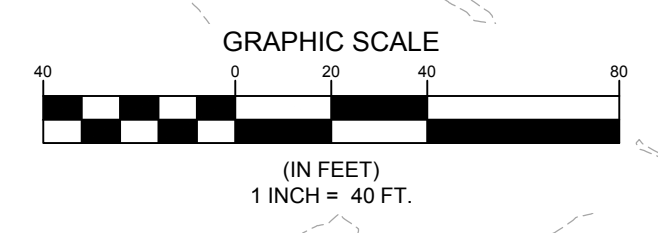
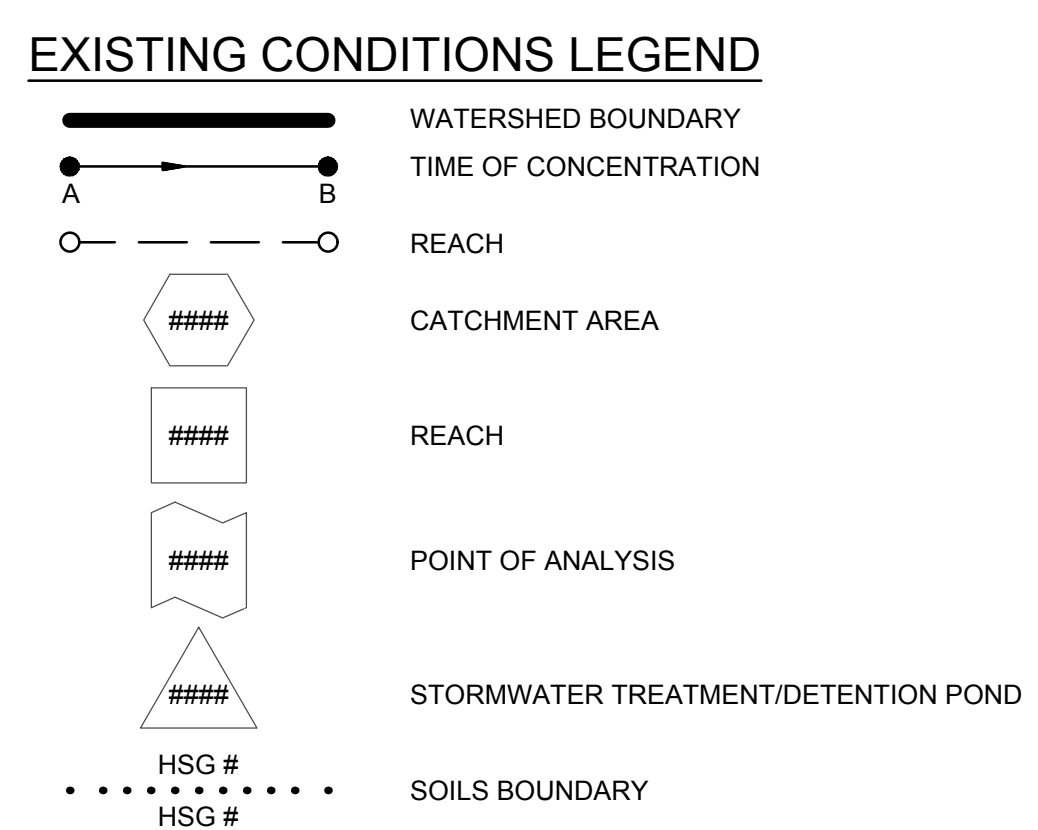


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75 John Roberts Rd.
Sullivan, ME 04106
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WWW.SEBAGOTECHNICALS.COM

DETAILS OF:
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FOR:
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SOUTH PORTLAND, ME 04106

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EXISTING CONDITIONS - SWP
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 RAYMOND, ME

FOR:
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 SOUTH PORTLAND, ME 04106

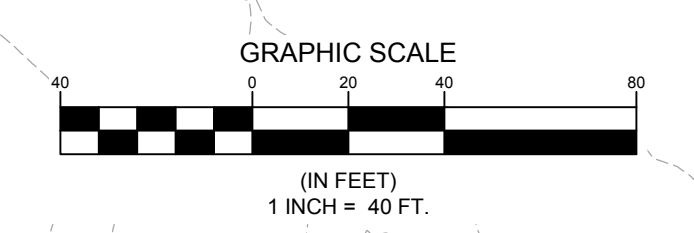
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SCALE	1" = 30'
PROJECT	14265-02

SHEET 1 OF 2



PROPOSED CONDITIONS LEGEND

	WATERSHED BOUNDARY
	TIME OF CONCENTRATION
	REACH
	SUBCATCHMENT LABEL
	REACH
	POINT OF ANALYSIS
	STORMWATER TREATMENT/DETENTION POND
	SOILS BOUNDARY
	SOILS BOUNDARY



ROBERT A. MANSORLEY, PE 6588

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