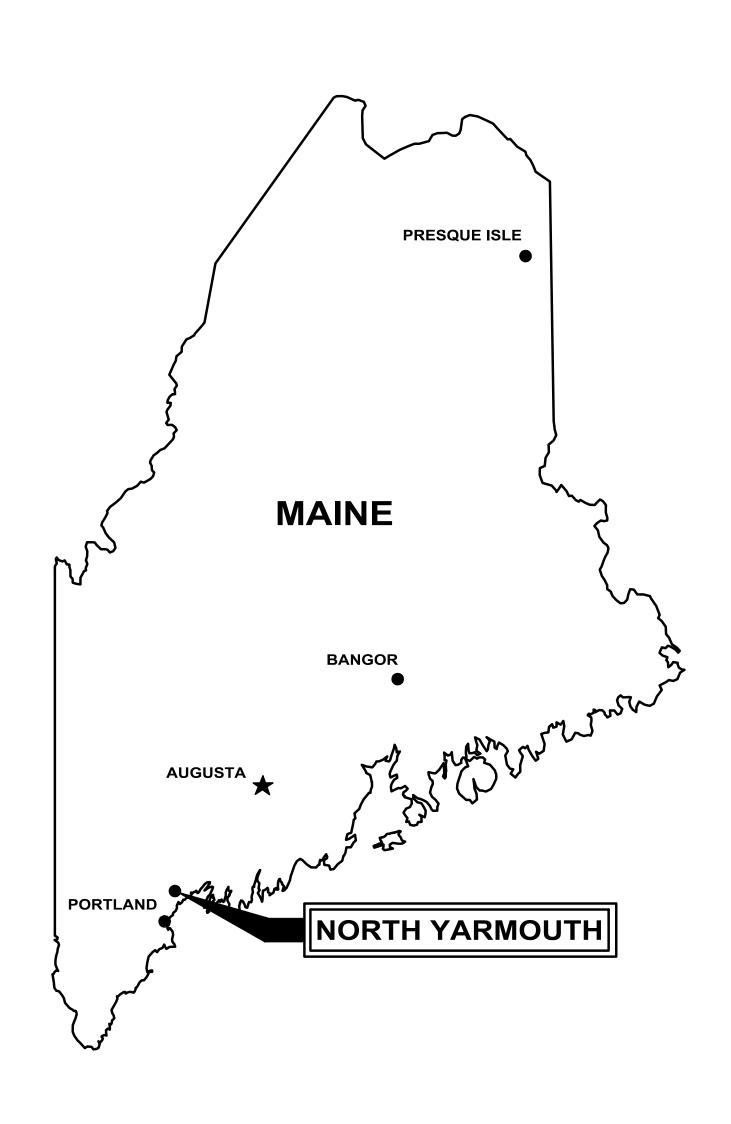
BID SET No.

# YARMOUTH WATER DISTRICT, MAINE

**CONTRACT DRAWINGS FOR** 

# NORTH YARMOUTH BOOSTER PUMP STATION NORTH YARMOUTH, ME

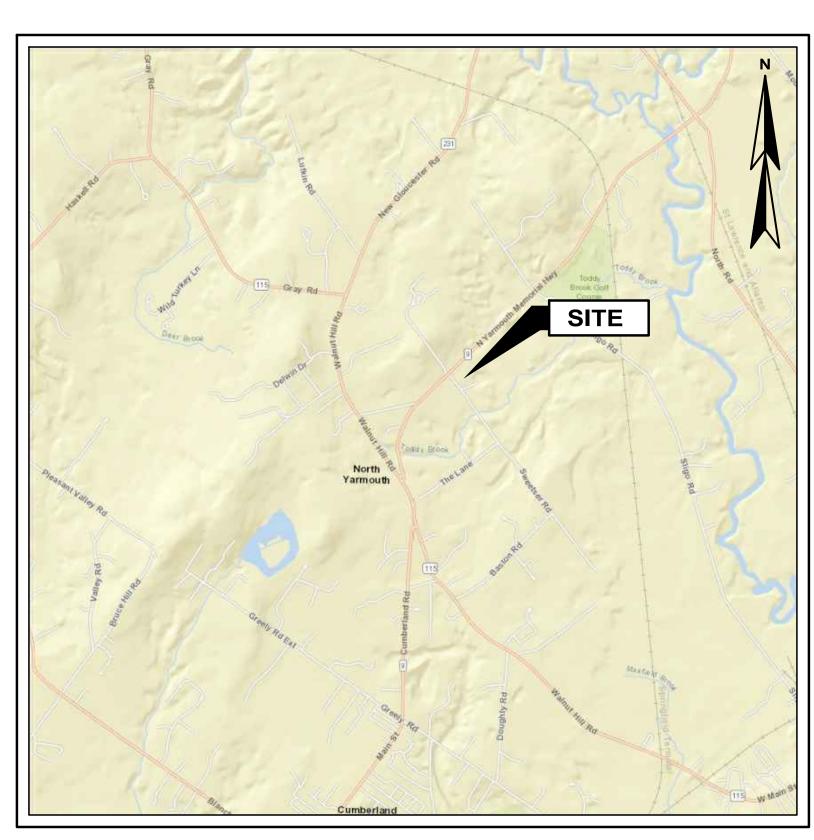
# JANUARY 2021 PLANNING BOARD SUBMITTAL



#### **DRAWING INDEX**

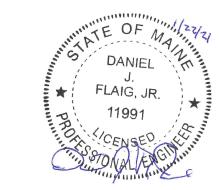
	COVER SHEET
CIVIL	
C-1 C-2 C-3	GENERAL NOTES, LEGEND, AND ABBREVIATIONS EXISTING CONDITIONS PLAN SITE LAYOUT, GRADING, AND PIPING PLAN
C-4 C-5	BUILDING ELEVATIONS DETAILS
C-6	EROSION AND SEDIMENT CONTROL NOTES AND DETAILS

ISSUED FOR PERMITTING JANUARY 2021



**LOCATION PLAN** 





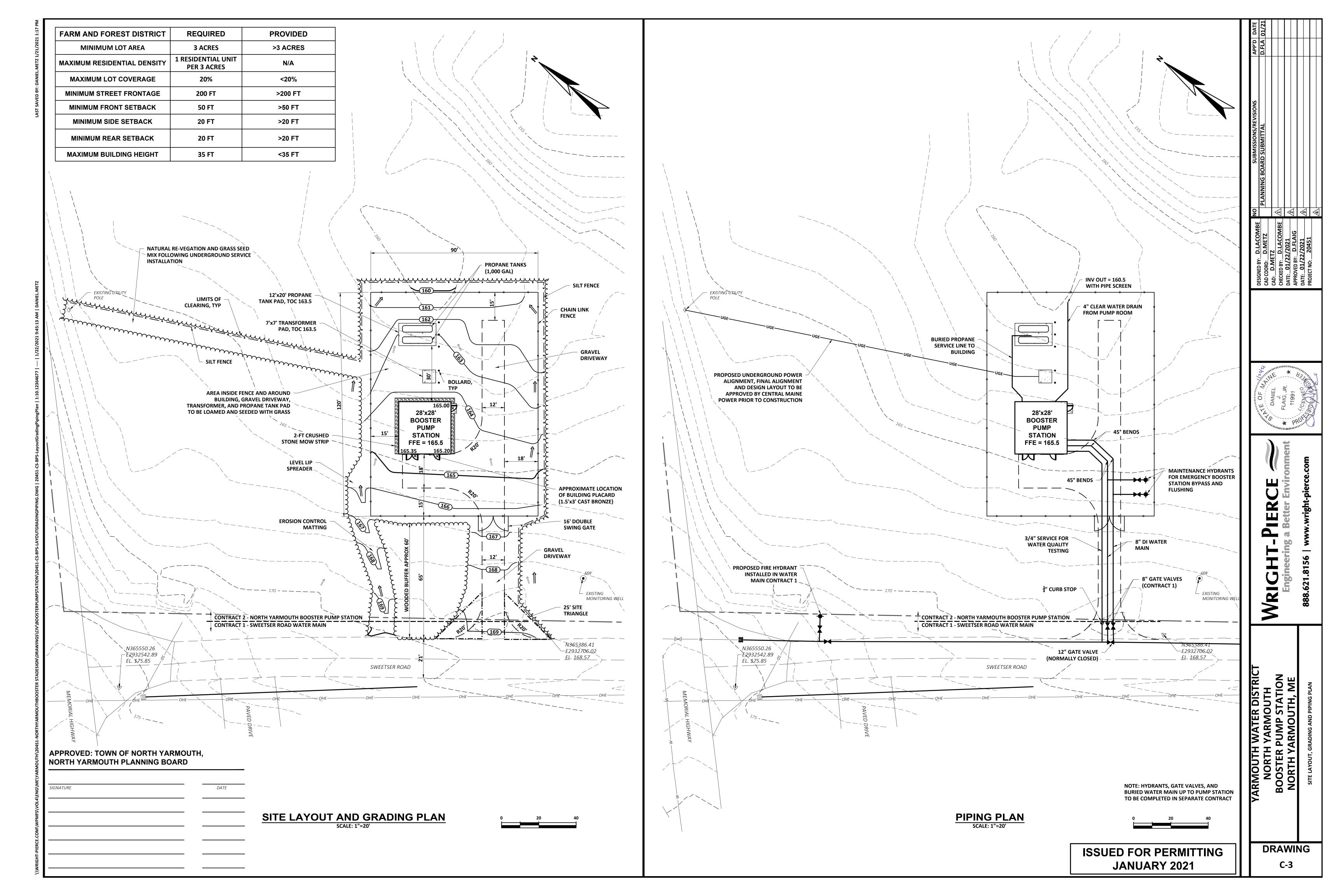
FOR REVIEW

FOR BIDDING

WP PROJECT No. 20451

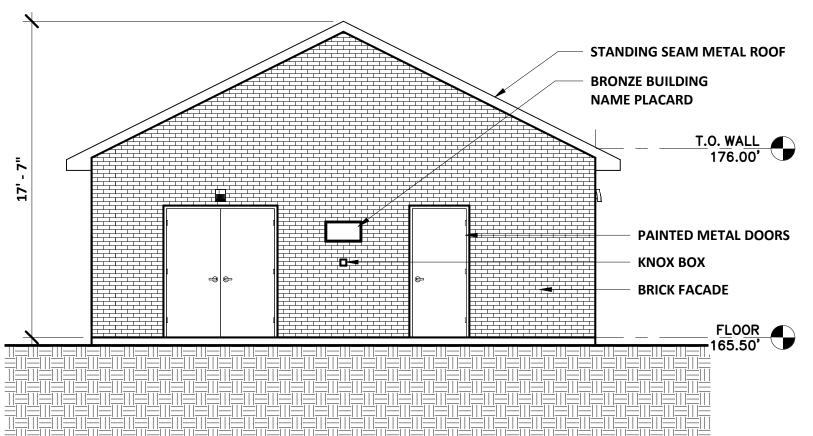
UTILITY CONTACTS: **LEGEND CIVIL ABBREVIATIONS ENGINEER: EXISTING PROPOSED** YARMOUTH WATER DISTRICT WRIGHT-PIERCE AND MONITORING WELL — — — PROPERTY/ROW LINE 11 BOWDOIN MILL ISLAND, SUITE 140 181 SLIGO ROAD \_\_\_\_ DIAMETER NORTH Ø, DIA TOPSHAM, ME 04086 YARMOUTH, ME 04096 SETBACK LINE NUMBER NGVD NATIONAL GEODETIC VERTICAL DATUM #, NO PROJECT ENGINEER: DUSTIN LACOMBE TEL: 207-846-5821 EASEMENT LINE TEL: 207-798-3716 APP'D **APPROVED** N/A NOT AVAILABLE/APPLICABLE — · — · — FAX: 207-729-8414 NTS **BLDG** BUILDING NOT TO SCALE CENTERLINE CB CATCH BASIN OD OUTSIDE DIAMETER **EDGE OF PAVEMENT** TELEPHONE: CEN CENTER PERFORATED CLAY 10 VILLAGE SQUARE VERIZON CURBING CFS CUBIC FEET PER SECOND PSF POUNDS PER SQUARE FOOT 365 GORHAM RD NORTH YARMOUTH, ME 04097 CAST IRON POUNDS PER SQUARE INCH **EDGE OF GRAVEL** SOUTH PORTLAND, ME 04106 DIRECTOR: CLARK BASTON \_\_\_\_\_\_ CL CENTERLINE PRIMARY SLUDGE TEL: 207-773-1033 TEL: 207-829-3274 EDGE OF CONCRETE CMP CORRUGATED METAL PIPE POINT OF TANGENCY —*——122———* CONTOUR FIRE AND RESCUE: CO CLEANOUT PVC POLYVINYL CHLORIDE 463 WALNUT HILL ROAD **CENTRAL** MAINE POWER COMPANY CONC CONCRETE RCP REINFORCED CONCRETE PIPE BUILDING NORTH YARMOUTH, ME 04097 83 EDISON DRIVE COR CORNER RD ROOF DRAIN STONEWALL  $\infty$ CHIEF: GREGORY PAYSON AUGUSTA, ME 04336 CY CUBIC YARD REQ'D REQUIRED TEL: 207-829-3025 TEL: 1-800-565-0121  $\sim\sim\sim\sim$  $\bigcirc \bigcirc \bigcirc \bigcirc$ TREELINE DEMO SLOPE, SEWER DEMOLITION DRAIN MANHOLE DMH SD STORM DRAIN CHAIN LINK FENCE TOWN-PUBLIC WORKS: **CUMBERLAND COUNTY SHERIFF'S OFFICE:**  $\longrightarrow \longrightarrow \longrightarrow$ DI 36 COUNTY WAY SQUARE FEET 10 VILLAGE SQUARE DUCTILE IRON STOCKADE FENCE \_\_\_\_ DR SMH SANITARY SEWER MANHOLE NORTH YARMOUTH, ME 04097 PORTLAND, ME 04102 DRAIN BARB WIRE FENCE DIRECTOR: CLARK BASTON TEL: 207-774-1444 DWG SQ \_\_\_\_X \_\_\_\_×\_\_\_×\_\_\_ DRAWING SQUARE CHIEF: 207-829-3274 ELEVATION STA STATION **RETAINING WALL EMH** T, XFMR ELECTRIC MANHOLE TRANSFORMER **GUARDRAIL** 0 0 FM TBM FORCE MAIN TEMPORARY BENCH MARK **SPECTRUM** \_\_\_\_\_s\_\_\_s\_\_\_\_ SEWER FEET THK THICKNESS 118 JOHNSON RD TOS GAS TOP OF STRUCTURE SEWER FORCE MAIN PORTLAND, ME 04012 TYP HYD HYDRANT TYPICAL TEL: 207-253-2324 GAS UD INCH UNDERDRAIN \_\_\_\_8"W WATER INFLUENT UNDERGROUND INF UG \_\_\_\_15"SD UGE STORM DRAIN INVERT UNDERGROUND ELECTRIC INV CIVIL SITE LAYOUT 6"UD LBS POUNDS VITRIFIED CLAY UNDERDRAIN ==12" CMP MAX MAXIMUM WITH \_ <u>12" CMP</u> \_ = = = = = = = CULVERT ALL ELEVATIONS REFER TO THE NAVD 1988 DATUM. ORIENTATION IS GRID NORTH ON THE MAINE STATE PLANE MH MANHOLE POTABLE WATER COORDINATE SYSTEM. PROJECT BENCH MARK IS SHOWN ON THE DRAWINGS AND IS DERIVED FROM FALLA AND SONS LAND MIN MINIMUM SURVEYS, INC. CONTRACTOR SHALL VERIFY BENCHMARK ELEVATIONS PRIOR TO USING IN CONSTRUCTION. EXISTING CONDITIONS SITE PLAN DEVELOPED FROM SURVEY DRAWING PREPARED BY FALLA AND SONS LAND SURVEYS, INC. DATED 10/28/2020. —— catv——— catv—— UNDERGROUND CABLE TV IRON PIPE/REBAR DRILLHOLE MONUMENT SURVEY CONTROL POINT 124.6 \* SMH O DMH SPOT ELEVATION SMH SEWER MANHOLE DMH DRAINAGE MANHOLE CB CB CB CATCH BASIN ELECTRIC MANHOLE TMH TELEPHONE MANHOLE  $\bowtie$ M SHUTOFF VALVE WATER SERVICE SHUTOFF YARD HYDRANT HYDRANT GAS SERVICE SHUTOFF GAS GATE VALVE UTILITY POLE UTILITY POLE W/ GUY UTILITY POLE W/ LIGHT LIGHT POLE BOLLARD FLAGPOLE **CONIFEROUS TREE** DECIDUOUS TREE SHRUB WETLAND FLAG EDGE OF WATER STREAM ------EDGE OF WETLANDS FLOODPLAIN WETLANDS DRAINAGE FLOW DRAINAGE SWALE PAVEMENT MARKINGS SIGN MAILBOX TEST PIT TEST BORING **TEST PROBE TEST WELL** LIMIT OF WORK SILT FENCE RIPRAP RAILROAD MATCHLINE **ROCK OUTCROP ISSUED FOR PERMITTING DRAWING JANUARY 2021** C-1





**BOOSTER PUMP STATION** 

EXTERIOR ELEVATION = 28'x28'



GENERATOR
EXHAUST PIPE.
INSULATED MUFFLER
INSIDE BUILDING

STANDING SEAM METAL ROOF

ALUMINUM
COVERED FASCIA TO
MATCH ROOF COLOR

T.O. WALL
176.00'

BRICK FACADE

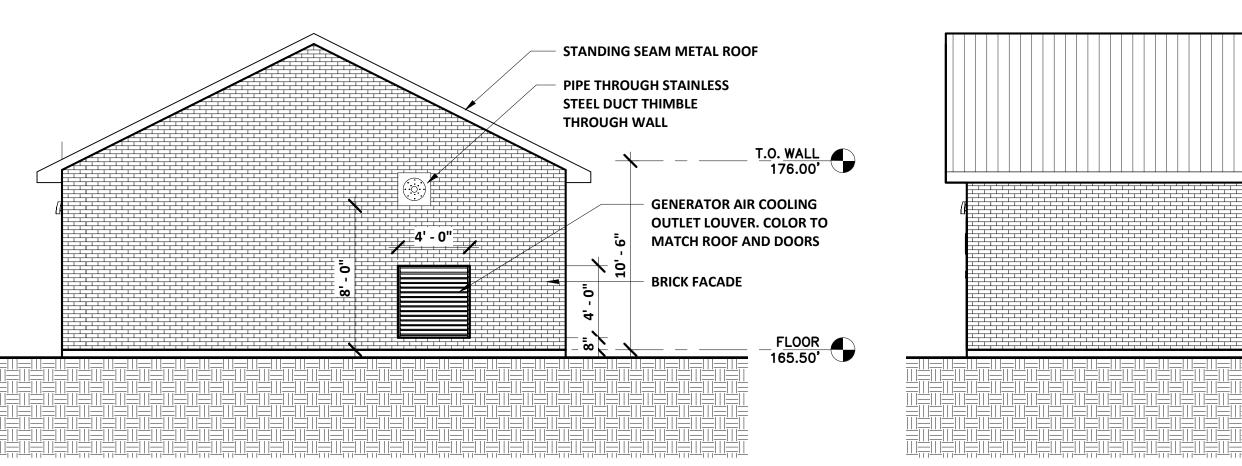
AIR INTAKE LOUVER
FOR GENERATOR
COLOR TO MATCH
ROOF AND DOORS

165.50'

FLOOR
165.50'

SCALE: 3/16" = 1'-0"

WEST ELEVATION
SCALE: 3/16" = 1'-0"



T.O. WALL
176.00'

LIGHT

BRICK FACADE
PAINTED
METAL DOOR
FLOOR
165.50'

NORTH ELEVATION
SCALE: 3/16" = 1'-0"

EAST ELEVATION
SCALE: 3/16" = 1'-0"

ISSUED FOR PERMITTING JANUARY 2021 
 DESIGNED BY:
 E.SHIELDS
 NO
 SUBMISSIONS/REVISIONS

 CAD COORD:
 D.METZ
 APIELDS
 APIELDS</td

FLAIG, JR. T1991

FLAIG, JR. T1991

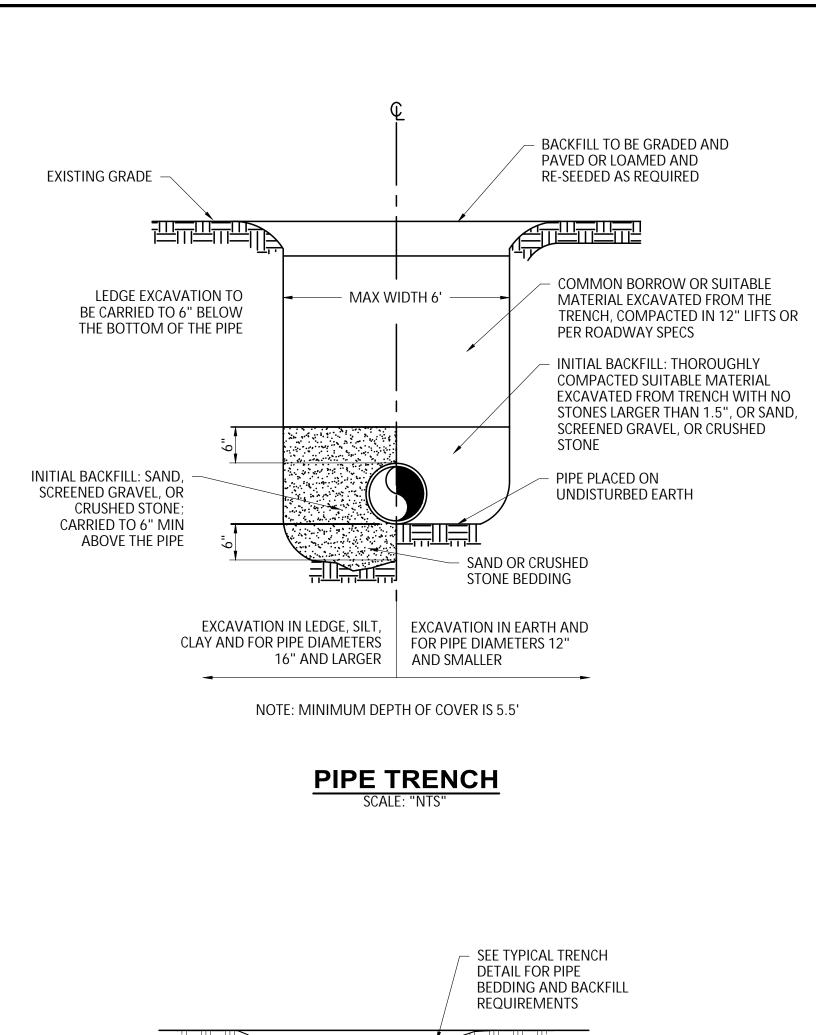
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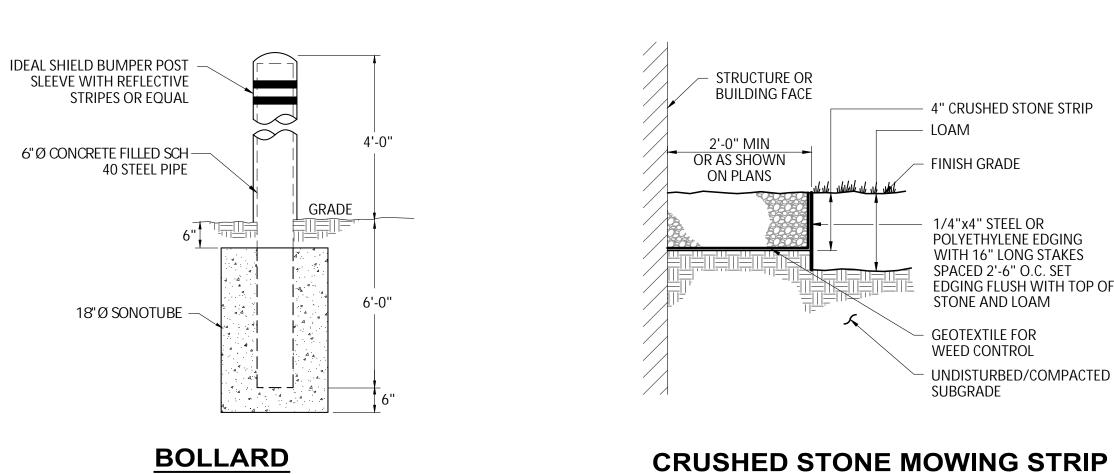


WRIGHT-FIERC Engineering a Better E

ORTH YARMOUTH
STER PUMP STATION
TH YARMOUTH. ME

DRAWING C-4





4" CRUSHED STONE STRIP

– LOAM

- FINISH GRADE

1/4"x4" STEEL OR

POLYETHYLENE EDGING

WITH 16" LONG STAKES

EDGING FLUSH WITH TOP OF

- UNDISTURBED/COMPACTED

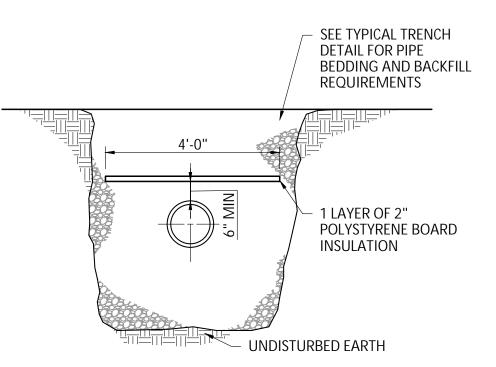
SPACED 2'-6" O.C. SET

STONE AND LOAM

- GEOTEXTILE FOR

WEED CONTROL

SUBGRADE



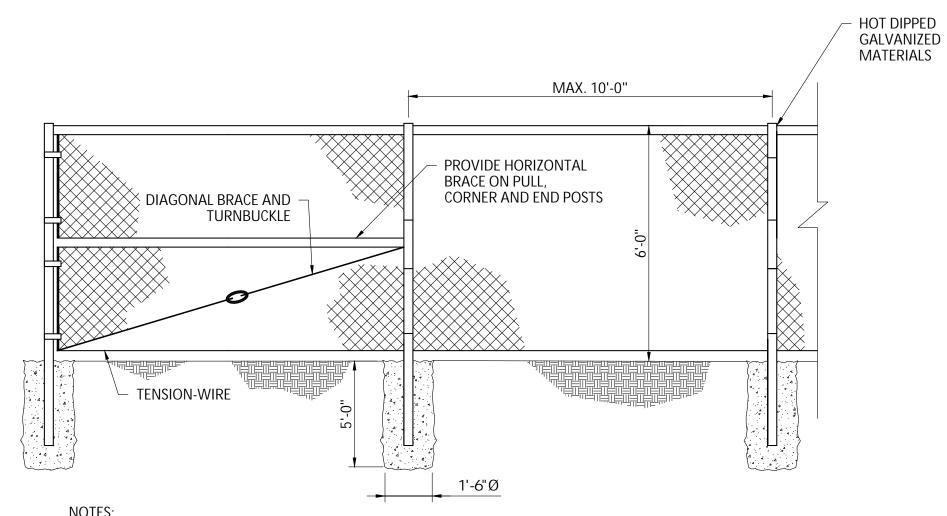
NOTE: TRENCH PIPE INSULATION TO BE USED WHERE DEPTH OF COVER IS LESS THAN 5 FEET OR AS DIRECTED BY THE

## AND LEVELING COURSE 12" AGGREGATE BASE COURSE TYPE "B" APPROVED SUBGRADE

- 4" AGGREGATE SURFACE

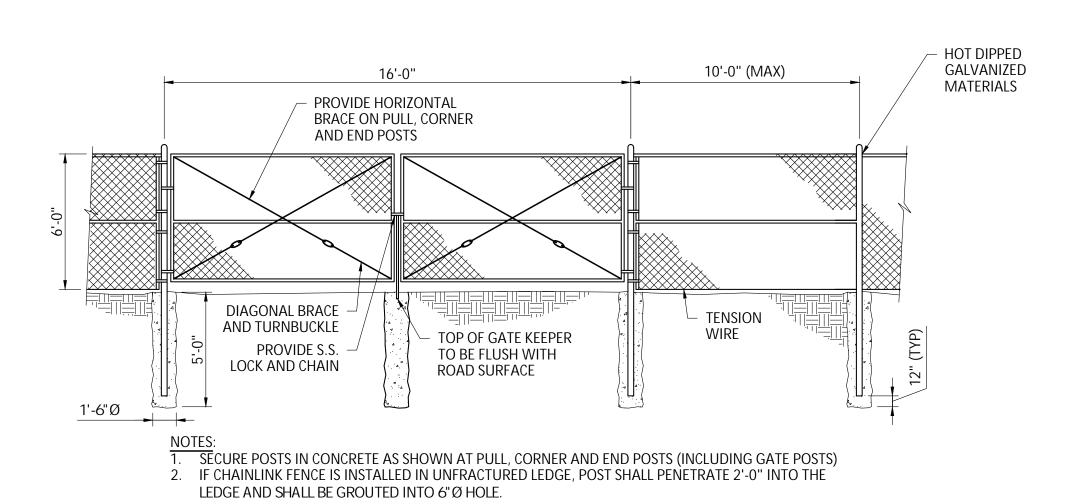
# TYPICAL SECTION OF GRAVEL AREAS SCALE: NTS

### TRENCH PIPE INSULATION



1. SECURE POSTS IN CONCRETE AS SHOWN AT PULL, CORNER AND END POSTS (INCLUDING GATE POSTS) 2. IF CHAINLINK FENCE IS INSTALLED IN UNFRACTURED LEDGE, POST SHALL PENETRATE 2'-0" INTO THE LEDGE AND SHALL BE GROUTED INTO 6"Ø HOLE.

**CHAINLINK FENCE** 



CHAINLINK FENCE AND LOCKING DOUBLE GATE
SCALE: "NTS"

**ISSUED FOR PERMITTING JANUARY 2021** 

**DRAWING** C-5

#### **EROSION AND SEDIMENTATION CONTROL NOTES**

THIS PLAN HAS BEEN DEVELOPED AS A STRATEGY TO CONTROL SOIL EROSION AND SEDIMENTATION DURING AND AFTER CONSTRUCTION. THIS PLAN IS BASED ON THE STANDARDS AND SPECIFICATIONS FOR EROSION PREVENTION IN DEVELOPING AREAS IN ACCORDANCE WITH OCTOBER 2016 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) MANUAL FOR DESIGNERS AND ENGINEERS, OR LATEST EDITION. EROSION CONTROL MIX SHALL BE AS SPECIFIED IN THIS CITATION, PAGE 40.

THE PROPOSED LOCATIONS OF SILTATION AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE SITE PLAN.

- 1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE IN ACCORDANCE WITH 2016 REVISION TO THE 2003 MAINE EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONTRACTORS, OR LATEST EDITION. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
- 2. IN AREAS ADJACENT TO NATURAL RESOURCES, LOCATIONS TO BE VEGETATED IN THEIR FINISH CONDITION SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF MOST RECENT DISTURBANCE.
- AREAS THAT WILL NOT RECEIVE FINAL GRADING FOR UP TO ONE YEAR SHALL BE STABILIZED WITH MULCH WITHIN 7 DAYS OF MOST RECENT DISTURBANCE.
- 4. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE MAINTAINED IN AN UNTREATED OR UNVEGETATED CONDITION FOR THE MINIMUM TIME REQUIRED. IN GENERAL AREAS TO BE VEGETATED SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL.
- 5. SEDIMENT BARRIERS (SILT FENCE, STONE CHECK DAMS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF UPGRADIENT DRAINAGE AREAS.
- INSTALL SILT FENCE AT TOE OF SLOPES TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
- ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSURE. IF REPAIRS ARE IDENTIFIED, THEY SHALL BEGIN NO LATER THAN THE END OF THE FOLLOWING WORK DAY AND BE COMPLETE WITHIN 7 DAYS FROM INSPECTION. SEDIMENT DEPOSITS MUST BE REMOVED WHEN THEY REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UPSLOPE ARE PERMANENTLY STABILIZED.
- 8. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2 TO 1) UNLESS STABILIZED WITH RIPRAP OR OTHER STRUCTURAL MEANS. NO SLOPES IN EXCESS OF 1.5H:1V SHALL BE ALLOWED UNLESS STAMPED STAMPED BY A PROFESSIONAL ENGINEER.
- 9. IF FINAL SEEDING AND SODDING IS NOT EXPECTED PRIOR TO THE ANTICIPATED DATE OF THE FIRST KILLING FROST, USE TEMPORARY ANNUAL RYEGRASS SEEDING AND MULCHING ON ROUGH GRADED SUBSOIL TO PROTECT THE SITE AND DELAY PERMANENT LOAMING, FINE GRADING, AND SEEDING OR SODDING UNTIL SPRING.
- 10. WHEN FEASIBLE, TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINISH GRADED SHALL BE COMPLETED 30 DAYS PRIOR TO THE FIRST KILLING FROST.
- 11. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS. POST SEEDING SEDIMENT, IF ANY, WILL BE DISPOSED OF IN AN ACCEPTABLE MANNER.
- 12. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND REVEGETATED
- 13. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
- 14. EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
- 15. EXPOSED AREA SHOULD BE LIMITED SUCH THAT THE AREA CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
- 16. STABILIZATION SCHEDULE BEFORE WINTER:

EMBER 15	ALL DISTURBED AREAS MUST BE SEEDED AND MULCHED.
	ALL SLOPES MUST BE STABILIZED, SEEDED AND MULCHED.
	SLOPES 3:1 OR GREATER TO BE STABILIZED WITH EROSION CONTROL MATTING AND SEEDED.

ALL DISTURBED AREAS TO BE PROTECTED WITH AN ANNUAL GRASS MUST BE SEEDED AT A SEEDING RATE OF 3 POUNDS PER 1,000 SQUARE FEET AND MULCHED. ALL GRASS-LINED DITCHES AND CHANNELS MUST BE STABILIZED WITH MULCH OR EROSION

OCTOBER 1 CONTROL BLANKET

NOVEMBER 15 ALL STONE-LINED DITCHES AND CHANNELS MUST BE CONSTRUCTED AND STABILIZED. SLOPES THAT ARE COVERED WITH RIPRAP MUST BE CONSTRUCTED BY THAT DATE.

ALL DISTURBED AREAS WHERE THE GROWTH OF VEGETATION FAILS TO BE AT LEAST THREE INCHES TALL OR AT LEAST 75% OF THE DISTURBED SOIL IS COVERED BY VEGETATION, MUST BE PROTECTED

- 17. SEDIMENT BARRIERS SHALL BE INSTALLED DOWNGRADIENT OF STOCKPILES, AND STORMWATER SHALL BE PREVENTED FROM RUNNING ONTO THE STOCKPILES.
- 18. MULCH MAY REQUIRE ANCHORING TO ENSURE THAT MULCH REMAINS IN-PLACE. MULCH NETTING, CRIMPING, OR PUNCHING ARE ACCEPTABLE METHODS. MULCH NETTING SHALL BE TENAX RADIX EROSION CONTROL NETS OR APPROVED EQUAL. AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS.
- 19. SPILL PREVENTION: CONTROLS MUST BE USED TO PREVENT POLLUTANTS FROM BEING DISCHARGED FROM MATERIALS AND EQUIPMENT ON-SITE, INCLUDING STORAGE PRACTICES TO MINIMIZE EXPOSURE OF THE MATERIALS TO STORMWATER, AND APPROPRIATE SPILL PREVENTION, CONTAINMENT, AND RESPONSE PLANNING AND IMPLEMENTATION.
- 20. 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, SUMPS. AND OTHER FORMS OF SECONDARY CONTAINMENT THAT PREVENT DISCHARGE TO GROUNDWATER MAY BE USED TO ISOLATE PORTIONS OF THE SITE FOR THE PURPOSES OF STORAGE AND HANDLING OF THESE MATERIALS.
- 21. 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
- 22. 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 WOODED 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.
- 23. AUTHORIZED NON-STORMWATER DISCHARGES: IDENTIFY AND PREVENT CONTAMINATION BY NON-STORMWATER DISCHARGES. WHERE ALLOWED NON-STORMWATER DISCHARGES EXIST, THEY 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:
  - A. DISCHARGES FROM FIREFIGHTING ACTIVITY;
  - B. FIRE HYDRANT FLUSHINGS;
- VEHICLE WASHWATER IF DETERGENTS 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;
- ROUTINE EXTERNAL BUILDING WASHDOWN, NOT INCLUDING SURFACE PAINT REMOVAL, THAT DOES NOT INVOLVE
- PAVEMENT WASHWATER (WHERE SPILLS/LEAKS 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
- POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND LANDSCAPE IRRIGATION.
- 24. UNAUTHORIZED NON-STORMWATER DISCHARGES: THE MAINEDEP'S APPROVAL UNDER THIS CHAPTER DOES NOT AUTHORIZE A DISCHARGE THAT IS MIXED WITH A SOURCE OF NON\_STORMWATER, OTHER THAN THOSE DISCHARGES IN COMPLIANCE WITH APPENDIX C (6). SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING:
  - A. 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
- D. TOXIC OR HAZARDOUS SUBSTANCES FROM A SPILL OR OTHER RELEASE.

#### **EROSION CONTROL - WINTER CONSTRUCTION**

- 1. WINTER CONSTRUCTION PERIOD DEFINED: NOVEMBER 1 THROUGH APRIL 15.
- 2. CONTINUATION OF EARTHWORK OPERATIONS ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
- 3. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDED, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE. IN ALL CASES, MULCH SHALL BE APPLIED SUCH THAT SOIL SURFACE IS NOT VISIBLE THROUGH THE MULCH.
- 4. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 1ST, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE-FREEZING TEMPERATURES, THE SLOPES 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 AND IS SMOOTH, THEN THE AREA MUST BE STABILIZED WITH MULCH. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT EXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
- 5. THE APPLICATION OF MULCH TO FINE GRADED AREAS WILL BE STABILIZED AS FOLLOWS:
- A. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING, ASPHALT EMULSION, CHEMICAL TACK OR WOOD CELLULOSE FIBER.
- B. 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 GRATER THAN 8%. THIS SHALL BE IN ADDITION TO EROSION CONTROL MATTING-DITCHES DETAIL.
- C. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15%. AFTER OCTOBER 1ST, THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
- 6. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
- 7. DURING WINTER CONSTRUCTION PERIODS ALL SNOW SHALL BE REMOVED FROM AREAS OF MULCHING PRIOR TO PLACEMENT.
- 8. THE INSPECTION FREQUENCY FOR AREAS BEING WORKED ON DURING WINTER CONSTRUCTION SHALL BE AFTER EACH RAINFALL, SNOWSTORM, OR THAWING, AND AT LEAST ONCE A WEEK.
- A. CONTRACTOR SHALL NOT BE BE REQUIRED TO INSPECT AREAS OF THE SITE THAT ARE NOT VISIBLE DUE TO SNOW IF THOSE AREAS ARE NOT BEING ACTIVELY CONSTRUCTED. HAVE BEEN INSPECTED AND PROPERLY REPAIRED PRIOR TO THE SNOW EVENT.

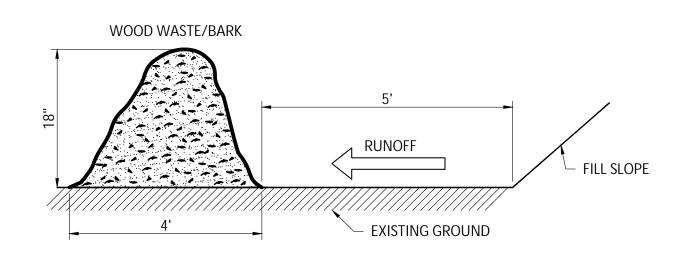
#### **EROSION CONTROL - WETLAND NOTES**

- 1. WETLANDS AND SURFACE WATERS (EXCEPTING THOSE WHICH ARE TO BE FILLED IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS) WILL BE PROTECTED WITH SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
- 2. IF THE WORK INCLUDES CROSSING OF WETLANDS AND/OR STREAMS, THE CONTRACTOR SHALL TAKE SPECIAL PRECAUTIONS WORKING IN THESE AREAS.
- 3. ANY WETLAND CROSSING WORK SHALL BE COMPLETED BETWEEN THE PERIOD OF MAY 1 AND SEPTEMBER 30.
- 4. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO COMMENCING CONSTRUCTION WITHIN OR ADJACENT TO WETLAND AREAS. ALL TEMPORARY MEASURES SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED.
- 5. WETLAND VEGETATIVE LAYERS SHALL BE REMOVED AND SALVAGED FOR RESTORATION OF THE DISTURBED AREAS.
- 6. STORAGE AREAS FOR WETLAND MATERIALS SHALL BE PROPERLY PROTECTED AGAINST EROSION.
- 7. SEEDING OF THE DISTURBED AREAS WITHIN WETLAND AREAS SHALL UTILIZE MIXTURES APPROPRIATE FOR WETLAND AREAS AS OUTLINED IN THE SPECIFICATIONS.

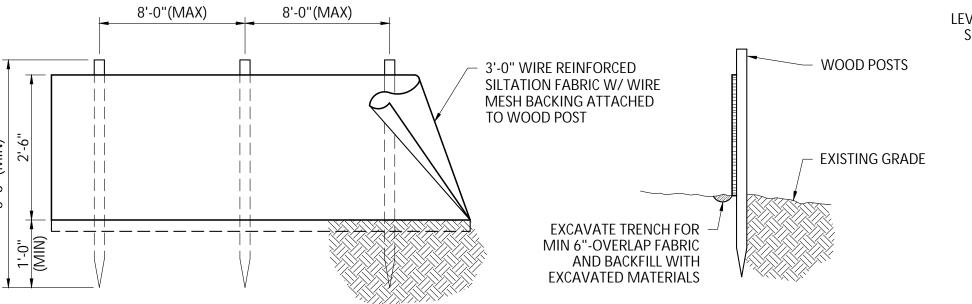
#### INSPECTIONS

REGULAR INSPECTIONS OF ALL EROSION AND SEDIMENTATION CONTROLS SHALL BE MADE AT LEAST WEEKLY AND PRIOR TO AND FOLLOWING STORM EVENTS. MINIMUM INSPECTIONS SHALL BE MADE AS LISTED IN TH TABLE BELOW. SEE INSPECTIONS, MAINTENANCE AND HOUSEKEEPING PLAN FOR ADDITIONAL INFORMATION.

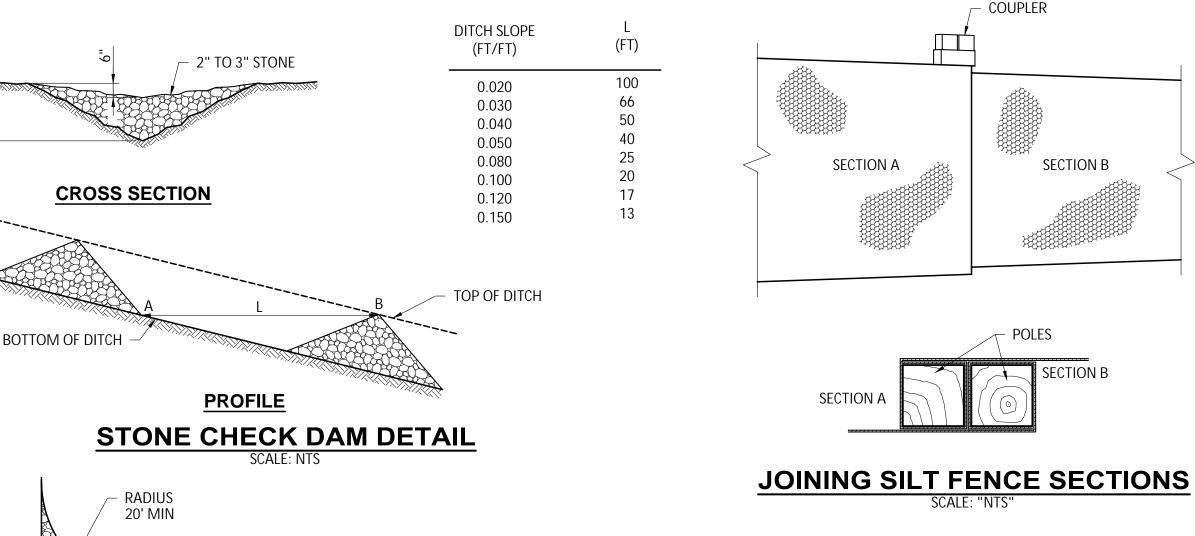
INSPECTED ITEM	EXAMPLE REPAIR INDICATORS
MULCHED SURFACES	THIN MULCH OR INADEQUATE APPLICATION. WIND MOVEMENT
SEEDED SURFACES	POOR SEED GERMINATION. LOSS OF MULCH. DEVELOPMENT OF RIVULETS.
SEDIMENT BARRIER	SEDIMENT BUILD-UP TO ONE HALF THE HEIGHT OF THE BARRIER. UNDERMINING OF THE BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED. BREAKS IN BARRIER.
PERIMETER DIVERSION	DISCHARGE IS TO STABILIZED AREA. EROSION OR BREAKS IN BARRIER. SUPPORTING STAKES LOOSE, TOPPLED OR UNMARKED.
CATCH BASIN PROTECTION	SEDIMENT BUILD-UP AND STRUCTURE BLOCKAGES. SLOW FLOW/PONDING WATER. BREAKS IN FABRIC OR VOIDS IN BARRIER.
DEWATERING FILTER	BREAKS IN FABRIC OR SUPPORTING STRUCTURE. SLOW FLOW, INDICATING HIGH SEDIMENT BUILD-UP.
CONSTRUCTION ENTRANCE	SEDIMENTATION OF ROADWAYS. OFF-SITE DUST COMPLAINTS.

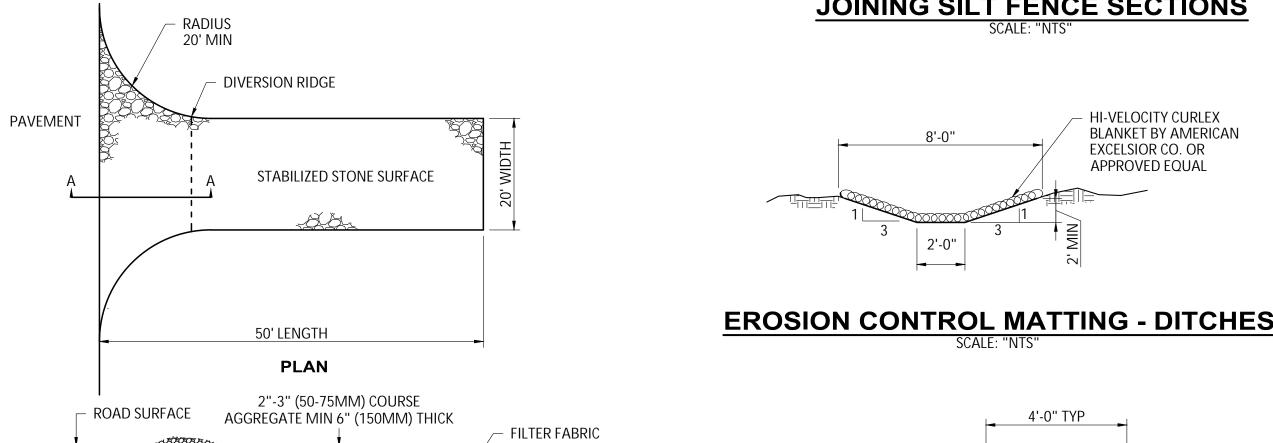


#### WOOD WASTE/BARK FILTER BERM



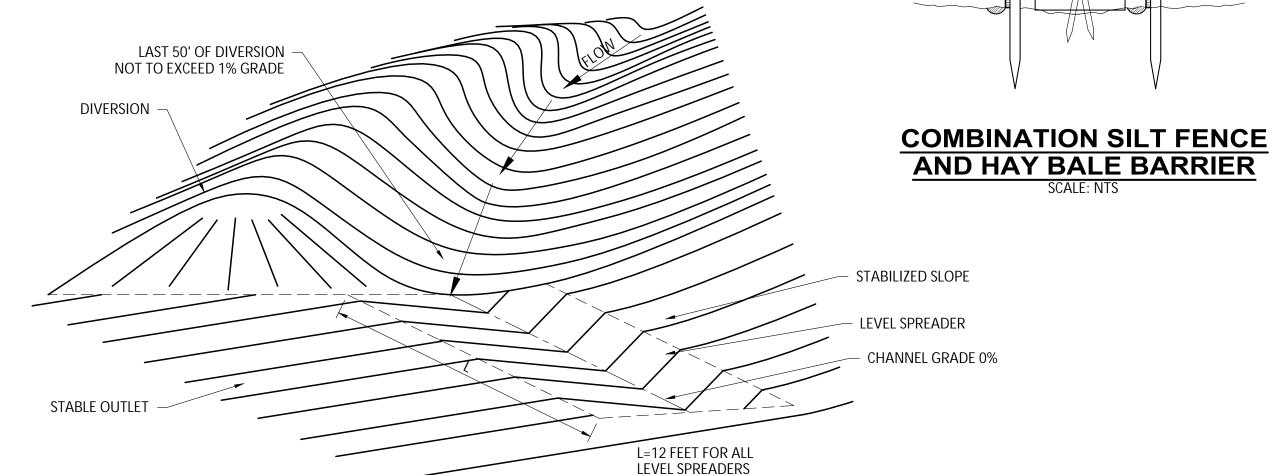
SILT FENCE INSTALLATION DETAIL

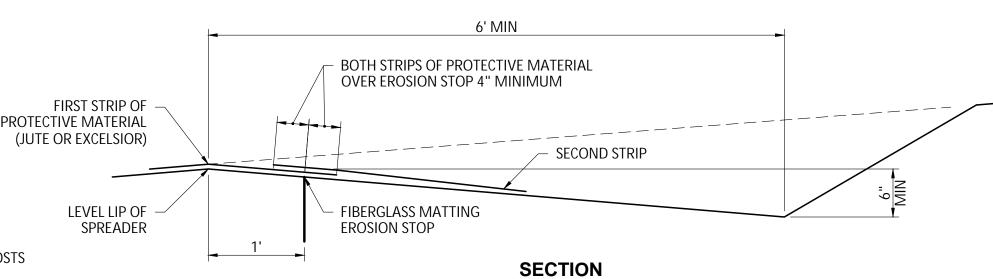




**SECTION A-A** 

#### (TEMPORARY, TO BE REMOVED PRIOR TO FINAL SITE PAVING) STABILIZED CONSTRUCTION ENTRANCE





**PLAN** 

 $1.\quad$  Construct the level spreader on a zero percent grade to insure uniform spreading of runoff. LEVEL SPREADER SHALL BE CONSTRUCTED ON UNDISTURBED SOIL AND NOT ON FILL AN EROSION STOP SHALL BE PLACED VERTICALLY A MINIMUM OF SIX INCHES DEEP IN A SLIT TRENCH ONE FOOT BACK OF THE LEVEL LIP AND PARALLEL TO THE LIP. THE EROSION STOP SHALL EXTEND THE ENTIRE LENGTH OF THE

4. THE ENTIRE LEVEL LIP AREA SHALL BE PROTECTED BY PLACING TWO STRIPS OF JUTE OR EXCELSIOR MATTING ALONG THE LIP. EACH STRIP SHALL OVERLAP THE EROSION STOP BY AT LEAST SIX INCHES. 5. THE ENTRANCE CHANNEL TO THE LEVEL SPREADER SHALL NOT EXCEED A ONE PERCENT GRADE FOR AT LEAST 50

EXCEPT POND NO. 2

WHICH L=20 FEET

FEET BEFORE ENTERING INTO THE SPREADER. 6. THE FLOW FROM THE LEVEL SPREADER SHALL OUTLET ONTO STABILIZED AREAS. WATER SHOULD NOT

7. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED. LEVEL LIP SPREADER

RECONCENTRATE IMMEDIATELY BELOW THE SPREADER.

**ISSUED FOR PERMITTING JANUARY 2021** 

HI-VELOCITY CURLEX

EXCELSIOR CO. OR

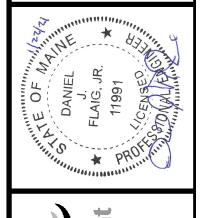
APPROVED EQUAL

4'-0" TYP

BLANKET BY AMERICAN

WOOD POSTS

HAYBALE



NO 1

**DRAWING** 

C-6