# LOT 3, RACEWAY INNOVATION CAMPUS

NARRAGANSETT STREET/RACEWAY DRIVE GORHAM, ME

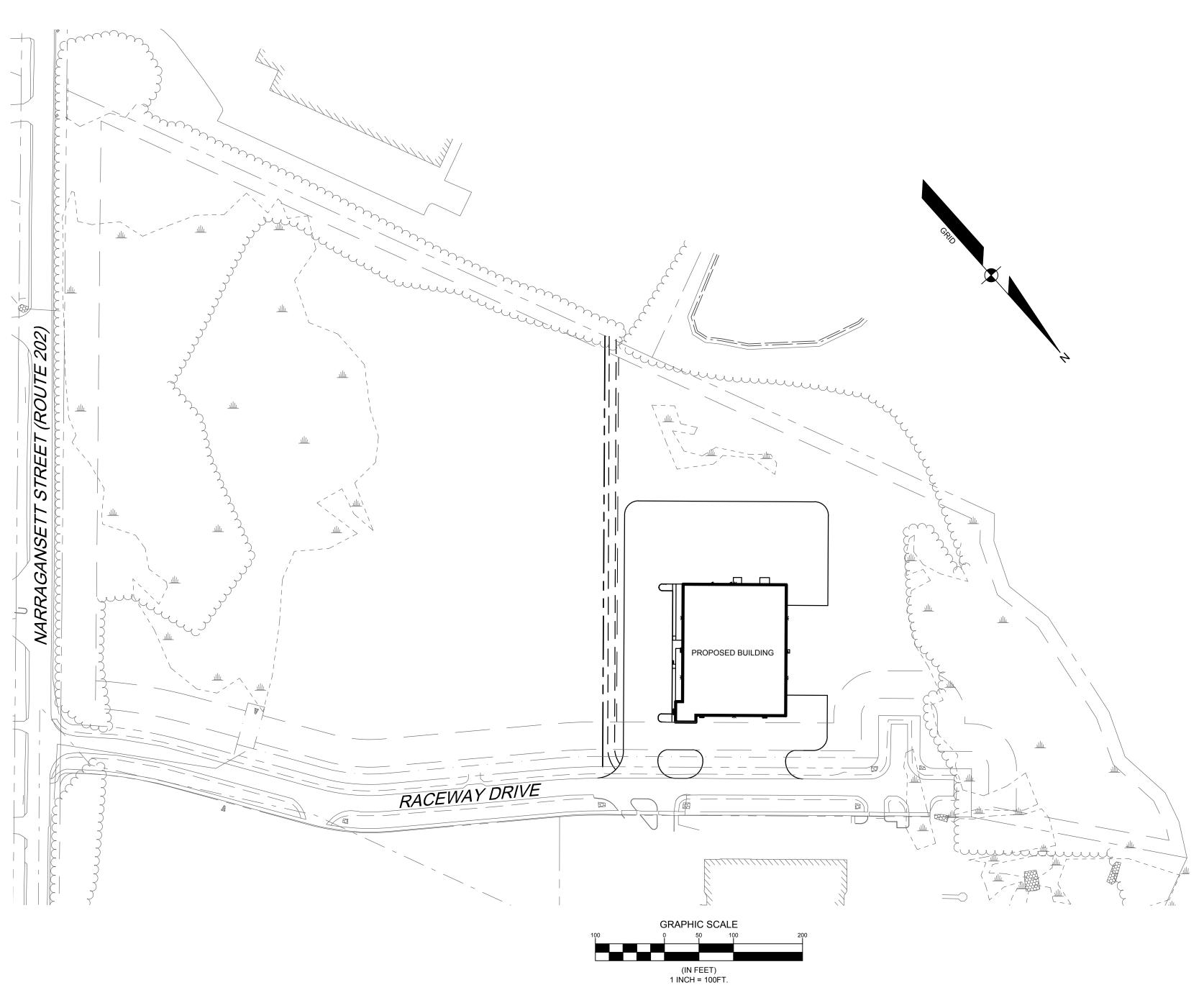
APPLICANT: MOODY'S CO-WORKER'S OWNED, INC.

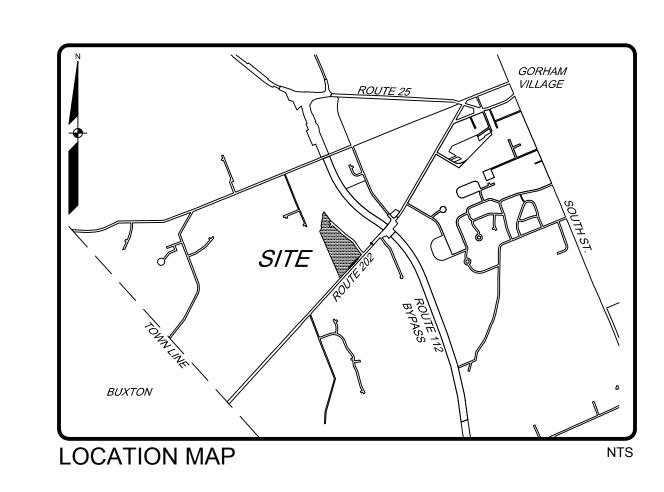
> 200 NARRAGANSETT STREET GORHAM, ME 04038

ENGINEER/SURVEYOR/ LANDSCAPE ARCHITECT:



South Portland, Bridgton, Sanford and Bath

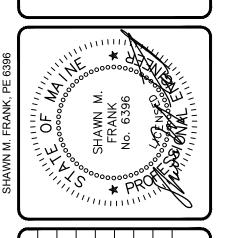


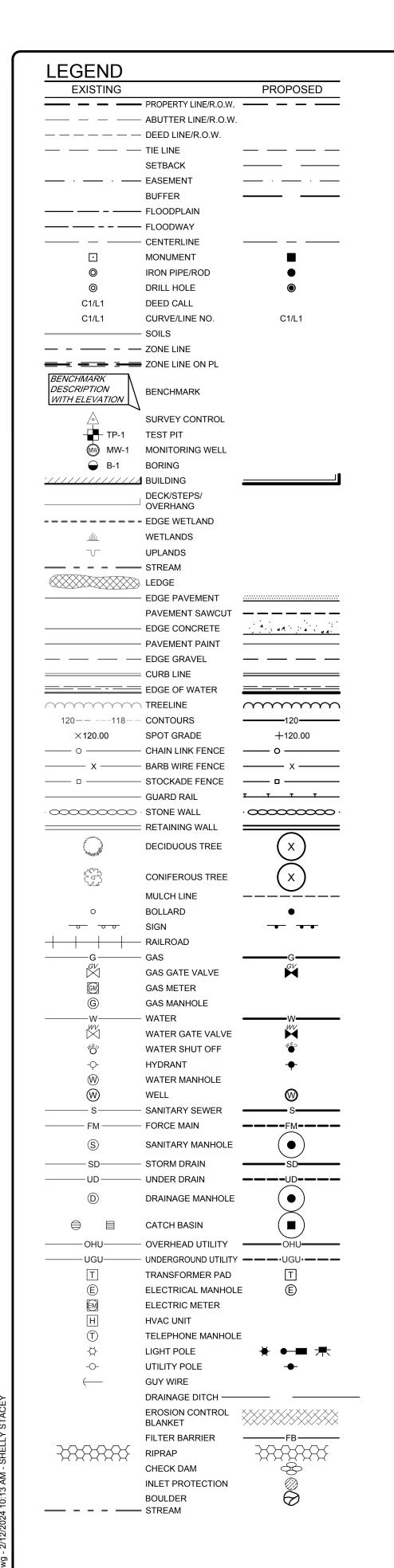


# SHEET INDEX

SHEET	TITLE
1	COVER SHEET
2	NOTES & LEGEND
3	OVERALL SITE PLAN
4	SITE PLAN
5	<b>GRADING &amp; UTILITY PLAN 1</b>
6	<b>GRADING &amp; UTILITY PLAN 2</b>
7	LANDSCAPE PLAN
8	<b>EROSION CONTROL NOTES</b>
9	DETAILS 1
10	DETAILS 2
11	DETAILS 3
1 OF 1	FIRST AMENDED SUBDIVISION PLA
A-1	FLOOR PLAN
A-2	ELEVATIONS

	3 # <b>2</b> (10
DESIGNED	SMF
DRAWN	DAB
CHECKED	SMF
DATE	09/27/23
SCALE	1" = 100'
PROJECT	19300-01





**GENERAL NOTES** 

- THE RECORD OWNER OF THE PARCEL IS MOODY'S CO-WORKER OWNED. INC. BY DEED DATED AUGUST 29, 2016 AND RECORDED AT THE CUMBERLAND COUNTY REGISTRY OF DEEDS (CCRD) IN BOOK 33400, PAGE 259 AND BY DEED DATED AUGUST 6, 2019 AND RECORDED AT THE CCRD IN BOOK
- 2. THE PROPERTY IS SHOWN AS LOT 3 AND A PORTION OF LOT 2 ON THE TOWN OF GORHAM TAX MAP 39 AND IS LOCATED IN THE NARRAGANSETT MIXED USE DEVELOPMENT DISTRICT.
- SPACE AND BULK CRITERIA FOR THE NARRAGANSETT MIXED USE DISTRICT ARE AS FOLLOWS:

MINIMUM LOT SIZE: 20.000 S.F. MINIMUM STREET FRONTAGE: 100 FT.

MINIMUM FRONT YARD:

MAXIMUM IMPERVIOUS AREA COVERAGE:

50 FT. ALONG NARRAGANSETT ST. 25 FT. MIN, 65' MAX ALL OTHER STREETS

25 FT. MIN, 50' MAX ALL OTHER STREET (MIXED USE

RESIDENTIAL)

MINIMUM SIDE YARD: 20 FT. OR 2 TIMES BLDG. HGT. (2X24'=48 FT) MINIMUM REAR YARD: 20 FT. OR 2 TIMES BLDG. HGT. (2X24'=48 FT)

MAXIMUM BUILDING HEIGHT: 50 FT. OR 4 STORIES

MAXIMUM BUILDING COVERAGE

\* SEE ORDINANCE FOR MORE PARTICULAR INFORMATION.

4. TOTAL AREA OF PARCEL IS APPROXIMATELY 22.08 ACRES.

- 5. TOPOGRAPHIC INFORMATION SHOWN HEREON IS BASED UPON A FIELD SURVEY BY SEBAGO TECHNICS, INC. IN AUGUST OF 2018 AND JULY OF 2021. BOUNDARY INFORMATION IS BASED SOLELY ON THE BOUNDARY DEPICTED ON PLAN REFERENCE 6A. SEBAGO TECHNICS, INC. HAS NOT PERFORMED AN INDEPENDENT BOUNDARY RETRACEMENT SURVEY IN PREPARING THIS PLAN
- A. "EXISTING CONDITIONS PLAN OF SHOP 'N SAVE PLAZA, GORHAM, MAINE FOR HANNAFORD BROS. CO., PORTLAND, MAINE" BY LAND USE CONSULTANTS, PROJECT NO. 2109, SCALE: 1" = 100',
- B. STATE HIGHWAY "4" & "94" NARRAGANSETT ST./U.S. RTE. 202 GORHAM CUMBERLAND COUNTY FEDERAL AID PROJECT NO. HP-8151(300) (PART I, II, & IV) MARCH 2005 RIGHT-OF-WAY MAP D.O.T. FILE NO. 3-511 SHEET 26, 27, 28, 29 AND 30 OF 47 SHEETS.
- C. "SUBDIVISION PLAN OF RACEWAY INNOVATION CAMPUS, NARRAGANSETT STREET, GORHAM, MAINE FOR MOODY'S CO-WORKER OWNED, INC., 200 NARRAGANSETT STREET, GORHAM, MAINE 04038" DATED MARCH 27, 2020 AND REVISED THROUGH MAY 5, 2021 BY SEBAGO TECHNICS, INC. THIS PLAN IS RECORDED AT THE CCRD IN PLAN BOOK 221. PAGE 317
- 7. PLAN ORIENTATION IS GRID NORTH, MAINE STATE PLANE COORDINATE SYSTEM, WEST ZONE 1802-NAD83, ELEVATIONS DEPICTED HEREON ARE NAVD88, BASED ON DUAL FREQUENCY GPS
- 8. UTILITY INFORMATION DEPICTED HEREON IS COMPILED USING PHYSICAL EVIDENCE LOCATED IN THE FIELD. 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 PRIOR TO CONSTRUCTION AND/OR EXCAVATION. 9. THE LOCUS PROPERTY AS DEPICTED HEREON DOES NOT FALL WITHIN A SPECIAL FLOOD HAZARD AREA AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR THE TOWN OF GORHAM, MAINE CUMBERLAND COUNTY, COMMUNITY-PANEL NUMBER 230047 0025 B, HAVING AN EFFECTIVE DATE OF OCTOBER 15,1981. THE LOCUS FALLS WITHIN AN AREA IDENTIFIED AS ZONE C, AREAS OF MINIMAL FLOODING.
- 10. A WETLAND DELINEATION WAS PERFORMED ON THIS PROJECT SITE IN AUGUST 2018 BY GARY M. FULLERTON, CERTIFIED SOIL SCIENTIST OF SEBAGO TECHNICS, INC. 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. ALL WETLAND FLAGS WERE LOCATED USING GLOBAL POSITIONING SYSTEMS (GPS)
- TECHNOLOGY CAPABLE OF DECIMETER ACCURACY 11. RACEWAY DRIVE IS PROPOSED AS A PUBLIC WAY TO PROVIDE ACCESS AND STREET FRONTAGE TO
- 12. ACCESS FOR THE LOTS SHALL OCCUR FROM RACEWAY DRIVE OR OTHER INTERNAL STREETS AND PRIVATE WAYS. NO LOTS SHALL HAVE DIRECT ACCESS FROM NARRAGANSETT STREET, STATE ROUTE 202.
- 13. ALL DRIVEWAYS SHALL HAVE PAVED APRONS WITH 4" OF BITUMINOUS CONCRETE COMMENCING AT THE EXISTING EDGE OF THE STREET PAVEMENT WHERE IT INTERSECTS WITH THE DRIVEWAY FOR A LENGTH OF 20 FEET 14. RACEWAY DRIVE HAS BEEN DESIGNED TO MEET OR EXCEED THE TOWN OF GORHAM'S
- INDUSTRIAL/COMMERCIAL ROAD STANDARDS. RACEWAY DRIVE SHALL BE A PRIVATE WAY UNTIL SUCH TIME, IF EVER, THE TOWN ACCEPTS IT. IF THE TOWN OF GORHAM ACCEPTS THE STREET, ALL MAINTENANCE OF THE DRAINAGE FACILITIES, AND SIMILAR SERVICES LOCATED OUTSIDE OF THE RIGHT-OF-WAY, SHALL REMAIN THE RESPONSIBILITY OF THE LOT OWNER'S ASSOCIATION. 15. THE GRANITE MONUMENTS ALONG RACEWAY DRIVE AND MONUMENTATION ON LOT 1 HAVE ALL
- BEEN PREVIOUSLY SET.
- 16. ALL WORK SHALL CONFORM TO THE APPLICABLE CODES AND ORDINANCES.
- 17. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE THEMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELF 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.
- 18. CONTRACTOR SHALL NOTIFY ENGINEER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH
- 19. 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.
- 20. 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
- 21. CONTRACTOR SHALL CLEAN AND REMOVE DEBRIS AND SEDIMENT DEPOSITED ON PUBLIC STREETS, SIDEWALKS, ADJACENT AREAS, OR OTHER PUBLIC WAYS DUE TO CONSTRUCTION.
- 22. 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.
- 23. SITE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO CONSTRUCTION.
- 24. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "MAINE EROSION AND SEDIMENT CONTROL BMPS" PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY OF THE MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, LATEST EDITION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO POSSESS A COPY OF THE EROSION CONTROL PLAN AT ALL TIMES.
- 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
- 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. ALL WORK PERFORMED BY THE GENERAL CONTRACTOR AND/OR TRADE SUBCONTRACTOR SHALL CONFORM TO THE REQUIREMENTS OF LOCAL, STATE OR FEDERAL LAWS, AS WELL AS ANY OTHER GOVERNING REQUIREMENTS, WHETHER OR NOT SPECIFIED ON THE DRAWINGS.
- 31. 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.
- 32. THE GENERAL CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR THE WORK UNTIL TURNED OVER TO THE OWNER.
- 33. THE GENERAL CONTRACTOR SHALL MAINTAIN A CURRENT AND COMPLETE SET OF CONSTRUCTION DRAWINGS ON SITE DURING ALL PHASES OF CONSTRUCTION FOR USE OF ALL TRADES.
- 34. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.

- 35. THE CONTRACTOR SHALL TAKE FULL RESPONSIBILITY FOR ANY CHANGES AND DEVIATION OF APPROVED PLANS NOT AUTHORIZED BY THE ARCHITECT/ENGINEER AND/OR CLIENT/OWNER.
- 36. 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.
- 37. 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
- 38. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING FLOW THROUGH THE EXISTING CLOSED STORM DRAINAGE SYSTEM DURING CONSTRUCTION AND SHALL SUBMIT A WORK PLAN FOR APPROVAL BY THE DESIGN ENGINEER.

#### GRADING & EROSION NOTES

- 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.
- ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT RESTORED WITH IMPERVIOUS SURFACES (BUILDINGS, PAVEMENTS, WALKS, ETC.) SHALL RECEIVE LOAM AND SEED PER DETAIL
- 3. SEE GRADING & UTILITY DRAWINGS FOR PIPE AND STRUCTURE DATA TABLES.

### CONSTRUCTION PLAN

- PROVIDE EROSION CONTROL MEASURES PRIOR TO SITE DISTURBANCE.
- 2. WETLANDS, ASSOCIATED SETBACKS AND STREAM SETBACKS TO BE STAKED BY OWNER PRIOR TO SITE DISTURBANCE.
- 3. GRADING AND CLEARING LIMITS SHALL NOT ENCROACH ON ADJACENT PROPERTIES UNLESS NOTED OTHERWISE ON THE PLANS.
- 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 REVEGETATED AND PERMANENTLY STABILIZED BEFORE ADDITIONAL AREAS ARE STRIPPED OF EXISTING VEGETATION. STABILIZE CONSTRUCTION AREAS BY USE OF RIPRAP. SEED. MULCH OR OTHER GROUND COVER WITHIN ONE WEEK FROM THE TIME IT WAS ACTIVELY WORKED. SURFACES SHALL BE STABILIZED PRIOR TO DIRECTING STORMWATER RUNOFF TOWARD STORMWATER BMPS. PLEASE REFER TO DRAINAGE PLANS FOR WATERSHED AREAS.

#### LANDSCAPE NOTES

- 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
- 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 NURSERYMEN,
- 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
- 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
- 9. ALL SHRUB BEDS SHALL BE MULCHED WITH 3" CLEAN SHREDDED DARK BROWN BARK MULCH.
- 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 SPHAGNUM PEAT MOSS, AND ONE PART HORTICULTURAL PERLITE BY VOLUME. PEAT MOSS MAY BE SUBSTITUTED WITH WELL-ROTTED OR DEHYDRATED MANURE OR COMPOST. ROTOTILL BEDS TO A DEPTH OF 8
- 13. DURING CLEANING OF SITE AND PRIOR TO TREE AND SHRUB INSTALLATION, CONTRACTOR SHALL REMOVE INVASIVE PLANTS. AREAS WHERE INVASIVE PLANTS ARE REMOVED AND NO OTHER PLANTING IS PROPOSED, AREA SHALL BE LOAM AND SEEDED.

#### **UTILITY NOTES**

- 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 USE OR NOT USE A GROUND LASER.
- 2. MAINTAIN MINIMUM 5'-6" OF COVER ABOVE TOP OF WATER SERVICE PIPE.
- MAINTAIN MINIMUM 10 FEET HORIZONTAL SEPARATION BETWEEN WATER SERVICES AND OTHER UTILITIES. MAINTAIN MINIMUM 18 INCHES VERTICAL SEPARATION BETWEEN WATER SERVICES AND
- LOWER OR RAISE WATER SERVICES AS REQUIRED TO MAINTAIN MINIMUM 12 INCH VERTICAL SEPARATION FROM OTHER UTILITIES. WATER SERVICES CROSSING SEWERS SHALL MAINTAIN 12 INCH MINIMUM SEPARATION BETWEEN THE BOTTOM OF WATER LINE AND TOP OF SEWER UNLESS NOTED OTHERWISE ON THE PLANS

APPROVED EQUAL UNLESS NOTED OTHERWISE ON THE UTILITY PLANS.

- SEWER PIPE SHALL BE SDR 35 PVC OR APPROVED EQUAL. STORMDRAIN SHALL BE ADS N-12 DUAL WALL HDPE PIPE WITH SMOOTH-WALLED INTERIOR OR
- WATER PIPE AND FITTINGS SHALL CONFORM TO THE DISTRICT HAVING JURISDICTION'S SPECIFICATIONS. MAIN WATER SERVICE PIPE SHALL BE DUCTILE IRON, CLASS 52 PUSH-ON PIPE MEETING THE REQUIREMENTS OF AWWA/ANSI C-111/A21.11 (LATEST REVISION). PIPE SHALL BE CEMENT-LINED AWWA/ANSI C104/A21.4 WITH LINING TWICE THE THICKNESS SPECIFIED. AND COATED TWICE WITH A BITUMINOUS SEAL COATING. PROVIDE THRUST BLOCKS AT ALL WATER
- COORDINATE ALL UTILITY LOCATIONS AND INVERTS AT BUILDING WITH ARCHITECTURAL, STRUCTURAL AND PLUMBING DRAWINGS.
- WATER SERVICE ENTRANCE DESIGNS TO INCLUDE METERS AND BACKFLOW PREVENTERS TO MEET ALL STANDARDS AND REQUIREMENTS OF THE DISTRICT HAVING JURISDICTION.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY GRADE CHANGES THAT WILL IMPACT STORM DRAINAGE INFRASTRUCTURE OR OTHER UTILITIES.
- 10. 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
- 11. CONTRACTOR SHALL FURNISH AND INSTALL TRENCHING, MATERIALS AND BACKFILL FOR ALL UTILITIES. ELECTRICAL AND TELECOM/DATA PROVIDERS WILL PULL PRIMARY SERVICE TO TRANSFORMER AND PANEL. CONTRACTOR RESPONSIBLE FOR TIMING AND COORDINATION WITH UTILITIES AND DRAWINGS. COORDINATE WITH ELECTRICAL DRAWINGS FOR CONDUIT SCHEDULE,
- 12. COORDINATE ALL WATER RELATED WORK WITH THE PORTLAND WATER DISTRICT.
- 13. 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.
- 14. 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 USG PUBLIC WORKS SYSTEMS.
- 15. CONTRACTORS SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE REQUIREMENTS OF 23 MRSA 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
- 16. UTILITY CONTACTS:
- ELECTRIC: CENTRAL MAINE POWER (CMP) 1-800-565-3181
- JOB # TBD ACCOUNT # TBD
- WATER: PORTLAND WATER DISTRICT ROBERT, BARTELS, ENGINEER
- (207) 774-5961 NATURAL GAS:
- UNITIL TBD

#### **TYPICAL ABBREVIATIONS**

ABOVE FINISH GRADE

APPROXIMATELY APPROX BOTTOM OF CURB **BITUMINOUS CONCRETE CURB** BITUMINOUS BUII DING **BOTTOM OF WALI CATCH BASIN** CONCRETE CONC CONT CONTINUOUS **DUCTILE IRON** DIAMETER DRAIN MANHOLE **EACH WAY** FI EVATION ELEV **ELEVATION** FINISH FLOOR ELEVATION FINISH GRADE FOOTING

FIN. GR. FTG HIGH DENSITY POLYETHYLENE HDPE HOT MIX ASPHALT INV INVERT LINEAR FEET

ON CENTER POLYVINYL CHLORIDE PORTLAND WATER DISTRICT RADIUS

R.O.W.

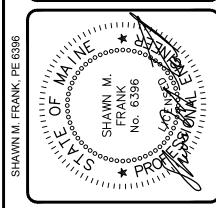
SQUARE FEET SCH **SCHEDULE** SLIPFORM CONCRETE SLOPED CURB SCSC SLIPFORM CONCRETE VERTICAL CURB

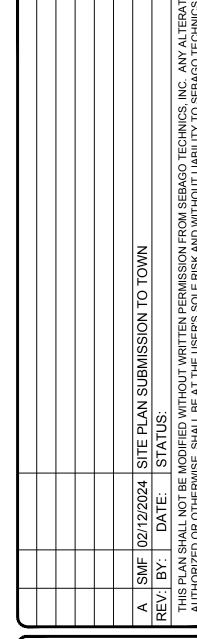
RIGHT OF WAY

STORM DRAIN SLOPED GRANITE CURB SEWER MANHOLE SPECS SPECIFICATIONS SANITARY SEWER

SALVAGED SLOPED GRANITE CURB SALVAGED VERTICAL GRANITE CURB TOP OF CURB TOP OF WALL

TYPICAL VERTICAL GRANITE CURB VERIFY IN FIELD

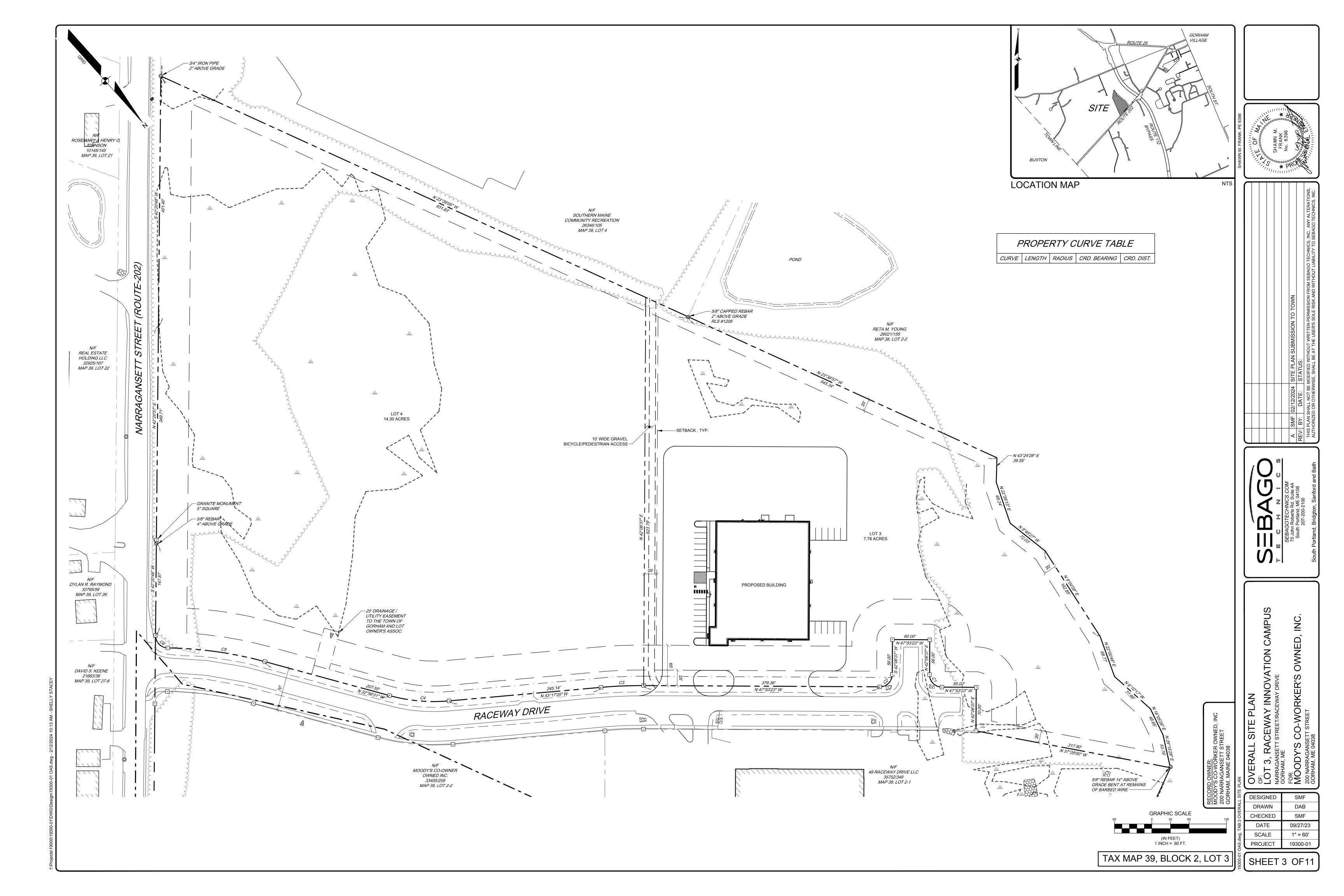


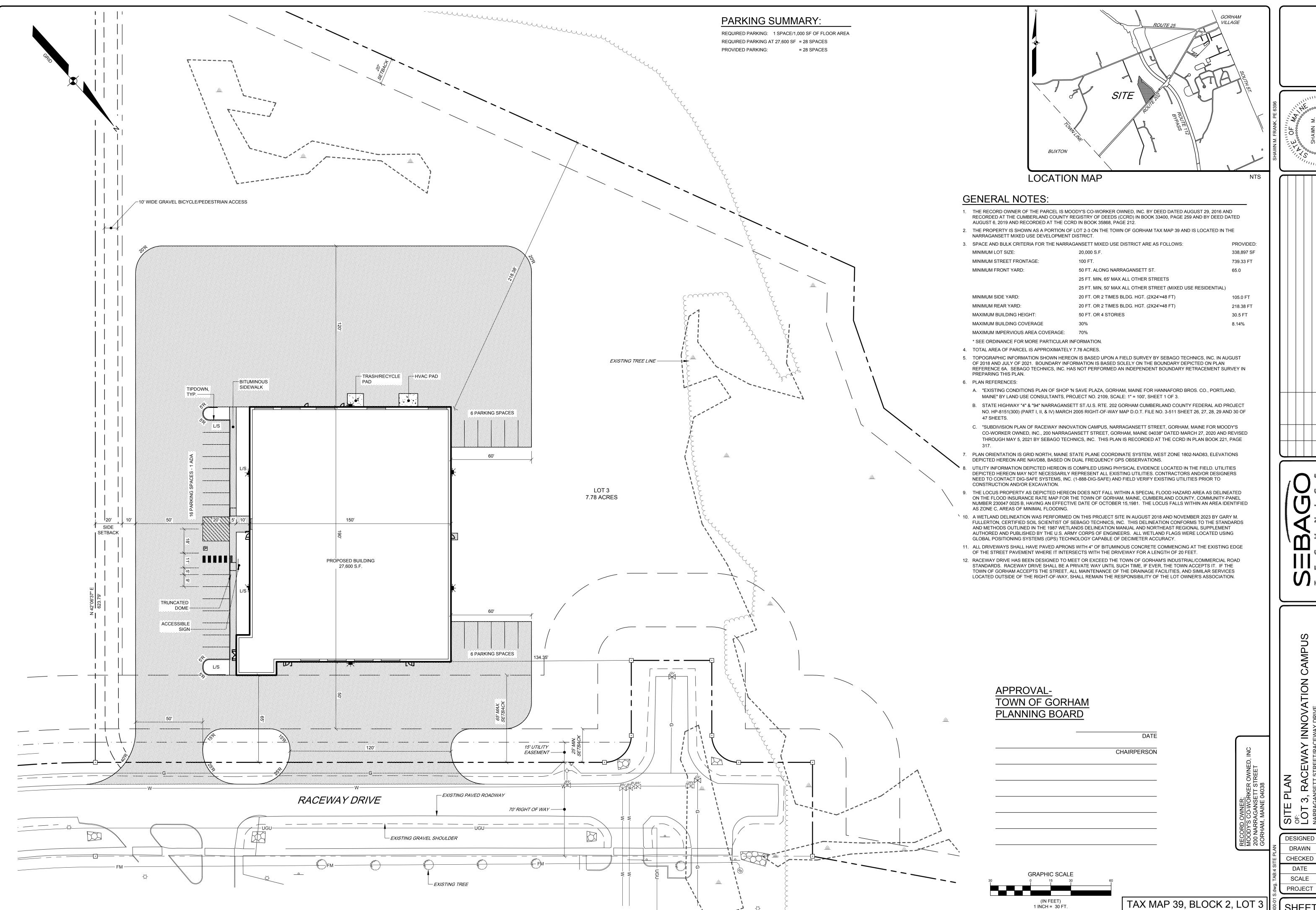




DESIGNED SMF DRAWN CHECKED DATE 09/27/23 SCALE NTS **PROJECT** 19300-01

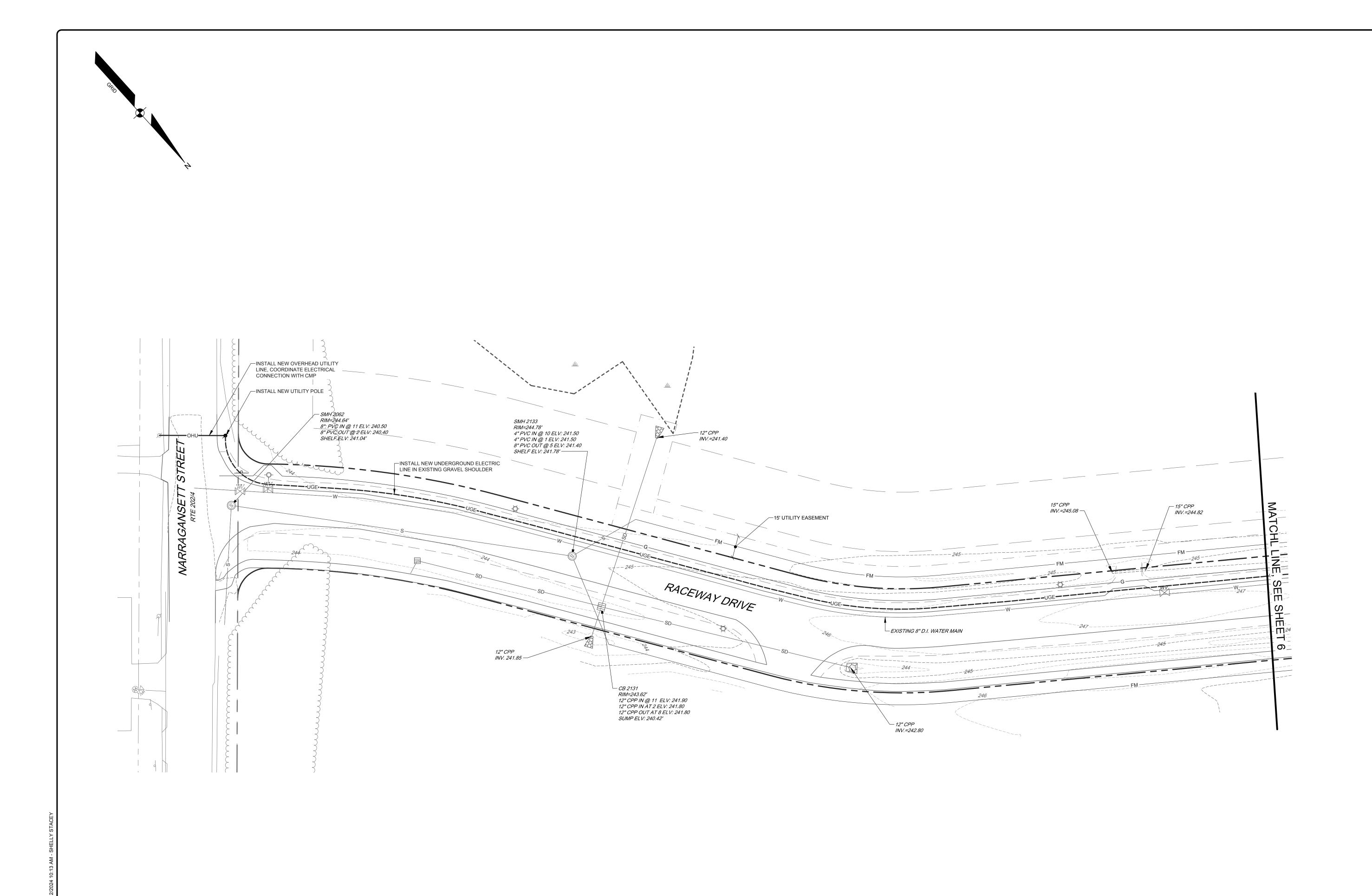
TAX MAP 39, BLOCK 2, LOT 3





09/27/23

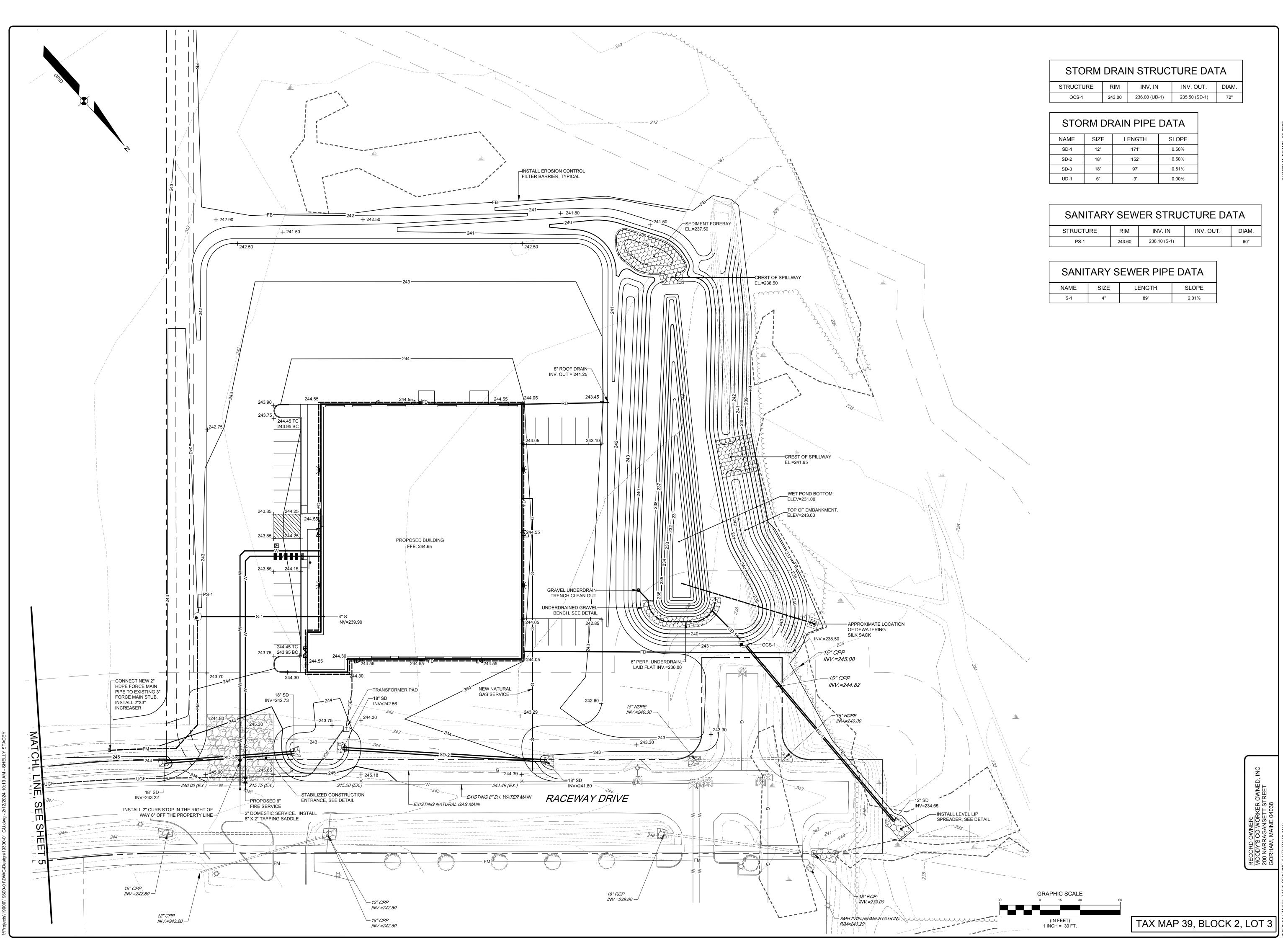
19300-01

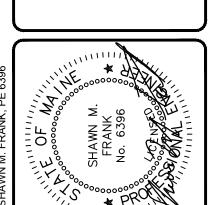


DESIGNED DRAWN CHECKED 09/27/23 DATE SCALE 1" = 30' 19300-01 PROJECT

TAX MAP 39, BLOCK 2, LOT 3 SHEET 5 OF11

(IN FEET) 1 INCH = 30 FT.

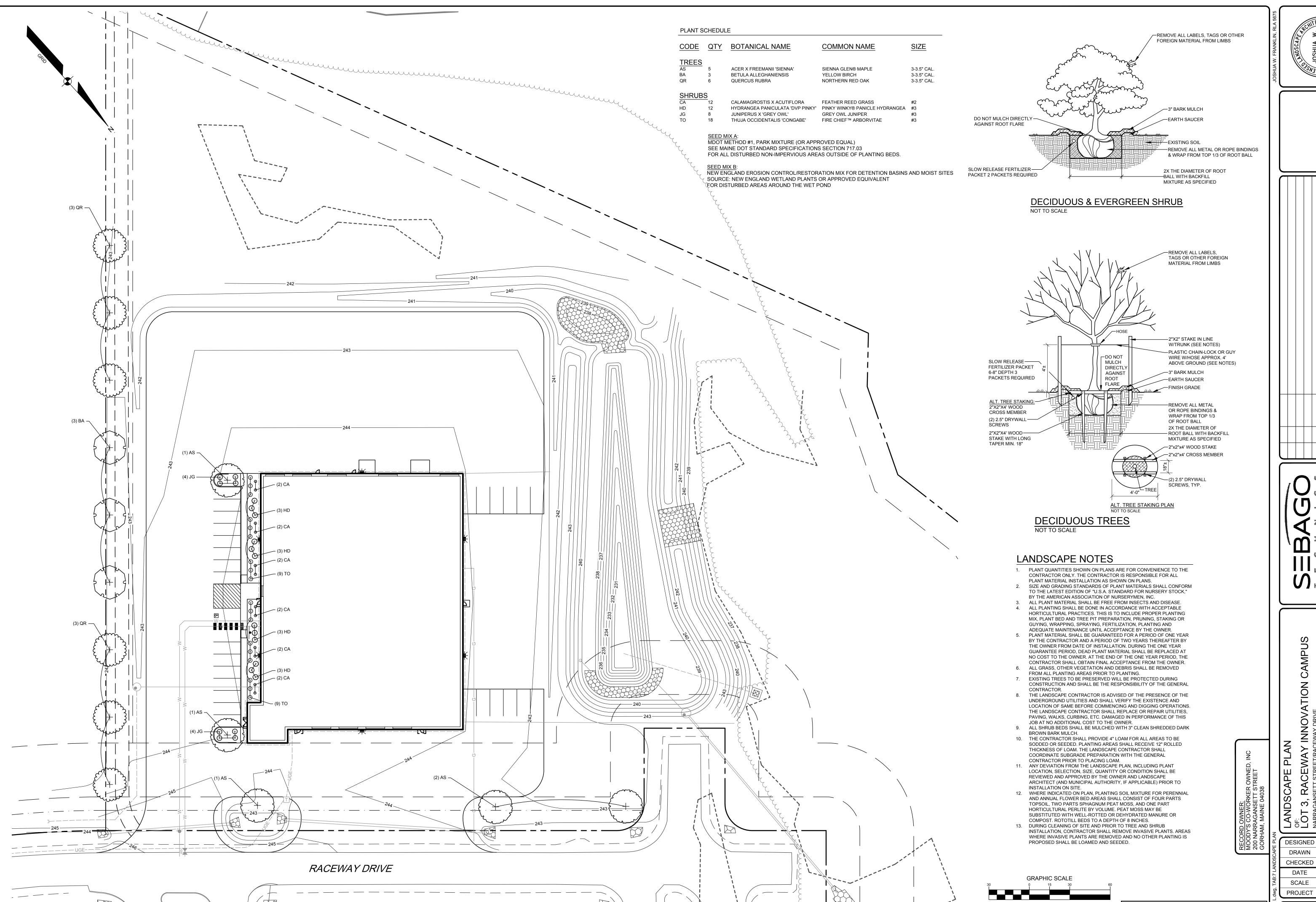


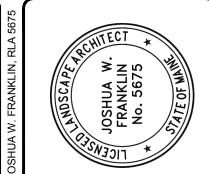


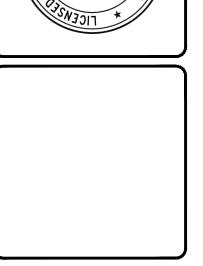
NO NO	700000000000000000000000000000000000000	TRANK M	No. 6396	800 C	NO SOLVENIE DE LA CONTRACTION	Notice of the second	
						TIONS, S. INC.	

					A SMF	ВУ	THIS PLAN	<b>AUTHORIZ</b>
					Α	REV: BY	THIS	AUT
								_
1		)	W					ath
7		J	U					b B
			_	COM	uite 4A	4106		South Portland, Bridgton, Sanford and Bath
•			Z	HNICS	s Rd. St	Portland, ME 0 207-200-2100	2	on, Sa
1	7	Ž	I	SEBAGOTECHNICS.COM	75 John Roberts Rd. Suite 4A	South Portland, ME 04106 207-200-2100		, Bridgt
		_ 	Ü	SEBAG	75 Johr	South		ortland
1		<b>1</b>	=					outh Po
1	4							ഗ

SIGNED	SMF		
RAWN	DAB		
ECKED	SMF		
DATE	09/27/23		
CALE	1" = 30'		
OJECT	19300-01		
	_		







DESIGNED DRAWN CHECKED DATE 09/27/23 SCALE 1" = 30'

SHEET 7 OF11

TAX MAP 39, BLOCK 2, LOT 3

1 INCH = 30 FT.

19300-01

#### **EROSION CONTROL MEASURES**

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 WITH 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, SUCH AS ACTIVE EXCAVATION AND ACTIVE GRADING. LIMIT THE EXPOSED AREA TO THOSE AREAS IN WHICH WORK IS ACTIVELY OCCURRING OR CAN BE MULCHED IN THE SAME DAY. OPEN AREAS SHALL BE ANCHORED WITH TEMPORARY EROSION CONTROL AS SHOWN ON THE DESIGN PLANS AND AS DESCRIBED WITHIN THIS EROSION CONTROL PLAN WITHIN SEVEN (7) DAYS OF DISTURBANCE. AREAS LOCATED WITHIN 100 FEET 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.

THE CONTRACTOR MUST INSTALL ANY ADDED MEASURES WHICH MAY BE NECESSARY TO CONTROL EROSION/SEDIMENTATION 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.

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.

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. EROSIÓN 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.

#### 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 DOWNGRADIENT 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 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

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 ENCE 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

SION 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 WELL-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 BOTTOM 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.

#### 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 SWALE ARE ESTABLISHED WITH AT LEAST 90% OF VIGOROUS PERENNIAL GROWTH. THE AREA BENEATH THE CHECK DAM MUST BE SEEDED AND MULCHED IMMEDIATELY

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 MANUFACTURE'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 TO FURTHER MINIMIZE THE TRACKING OF MUD, DUST OR DEBRIS FROM THE CONSTRUCTION AREA. THE TERM "SWEEP" IS UNDERSTOOD TO MEAN REMOVAL AND RECOVERY OF TRACKED SEDIMENT WITH A STREET SWEEPER, NOT BRUSHING THE MATERIAL INTO SWALES OR STRUCTURES WITH A MECHANICAL BROOM. 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.

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 PRODUCTS 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 CONTRACTOR'S ULTIMATE RESPONSIBILITY TO MITIGATE DUST AND SOIL LOSS FROM THE SITE. IF OFFSITE TRACKING OCCURS, PUBLIC ROADS SHOULD BE SWEPT IMMEDIATELY AND NOT LESS THAN ONCE A WEEK AND PRIOR TO SIGNIFICANT STORM EVENTS.

#### **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. SEEDBED 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 MANUALS FOR CONTRACTORS AND ENGINEERS, 2016 OR LATEST REVISION. ALTERNATIVE EROSION CONTROL MEASURES SHOULD BE USED IF SEEDING CAN NOT BE DONE BEFORE SEPTEMBER 15TH OF THE CONSTRUCTION YEAR.

#### 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:

**APPLICATION RATE** 10-20-20 FERTILIZER 18.4 LBS./1,000 S.F (N-P205-K20 OR EQUAL)

**GROUND LIMESTONE (50%** 138 LBS./1,000 S.F. CALCIUM & MAGNESIUM OXIDE)

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 SEEDBED 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)

CREEPING 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

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 2016 OR LATEST REVISION

- HYDROSEEDING: SHALL BE CONDUCTED ON PREPARED AREAS WITH SLOPES LESS THAN 2:1. LIME AND FERTILIZER MAY BE APPLIED SIMULTANEOUSLY WITH THE SEED. ECOMMENDED 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.

FOLLOWING SEEDBED 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. HE 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 75% 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 NCLUDES 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 75 POUNDS PER 1000 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 75% 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 NCLUDES 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.
- 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 PROVIDE 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. 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.

- 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
- 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. 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.
- 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 SWEPT 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.
- 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.
- EXCAVATION DE-WATERING. EXCAVATION DE-WATERING IS THE REMOVAL OF WATER FROM TRENCHES, FOUNDATIONS, COFFER DAMS. PONDS. AND OTHER AREAS VITHIN 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.
- 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:
- 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 DETERGENTS; 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;

B. FIRE HYDRANT FLUSHINGS

- UNCONTAMINATED GROUNDWATER OR SPRING WATER; FOUNDATION OR FOOTER DRAIN-WATER WHERE FLOWS ARE NOT CONTAMINATED;
- UNCONTAMINATED EXCAVATION DEWATERING: K. POTABLE WATER SOURCES INCLUDING WATERLINE FLUSHINGS; AND
- L. LANDSCAPE IRRIGATION
- 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. SPECIFICALLY, THE DEPARTMENT'S APPROVAL DOES NOT AUTHORIZE DISCHARGES OF THE FOLLOWING: A. WASTEWATER FROM THE WASHOUT OR CLEAN OUT OF CONCRETE, STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS OR OTHER CONSTRUCTION MATERIALS:
- B. 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, 75% 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 DENUDED 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/SEDIMENTATION 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.

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 MIX. THIS WILL BE DONE WITHIN 24 HOURS OF STOCKING AND RE-ESTABLISHED. PRIOR TO ANY RAINFALL OR SNOWFALL. ANY SOIL STOCKPILE WILL NOT BE PLACED (EVEN COVERED WITH HAY OR STRAW) WITHIN 100 FEET FROM ANY NATURAL

#### 2. NATURAL RESOURCES PROTECTION

ANY AREAS WITHIN 100 FEET FROM ANY NATURAL RESOURCES, IF NOT STABILIZED WITH A MINIMUM OF 75% 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

#### 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.

### MULCHING

ALL AREA SHALL BE CONSIDERED TO BE DENUDED 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 BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 150 LB. PER 1.000 SQUARE FEET (3TONS/ACRE) AND ADEQUATELY ANCHORED THAT GROUND SURFACE IS NOT VISIBLE THOUGH THE MULCH.

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 BLANKETS. MULCHING SHALL BE APPLIED AT A RATE OF 230 LBS/1.000 S.F. ON ALL SLOPES GREATER THAN 8%. 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 LOOMED, 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 75% 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.

MAINTENANCE MEASURES SHALL BE APPLIED AS NEEDED DURING THE ENTIRE CONSTRUCTION SEASON. AT A MINIMUM, AFTER EACH RAINFALL, SNOW STORM OR PERIOD OF THAWING AND RUNOFF, THE SITE CONTRACTOR SHALL PERFORM A VISUAL INSPECTION OF ALL INSTALLED EROSION CONTROL MEASURES AND PERFORM REPAIRS AS NEEDED TO INSURE THEIR CONTINUOUS FUNCTION. FOLLOWING THE TEMPORARY AND OR FINAL SEEDING AND MULCHING, THE CONTRACTOR SHALL IN THE SPRING INSPECT AND REPAIR ANY DAMAGES AND/ OR UNESTABLISHED SPOTS. ESTABLISHED VEGETATIVE COVER MEANS A MINIMUM OF 90% OF AREAS VEGETATED WITH VIGOROUS GROWTH.

#### STANDARDS FOR TIMELY STABILIZATION OF CONSTRUCTION SITES DURING WINTER

1. STANDARD FOR THE TIMELY STABILIZATION OF DITCHES AND CHANNELS -- THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL STONE-LINED DITCHES AND CHANNELS ON THE SITE BY NOVEMBER 15. THE APPLICANT WILL CONSTRUCT AND STABILIZE ALL GRASS-LINED DITCHES AND CHANNELS ON THE SITE BY SEPTEMBER 15. IF THE APPLICANT FAILS TO STABILIZE A DITCH OR CHANNEL TO BE GRASS-LINED BY SEPTEMBER 15, THEN THE APPLICANT WILL TAKE ONE OF THE FOLLOWING ACTIONS TO STABILIZE THE DITCH FOR LATE FALL AND WINTER.

TALL A SOD LINING IN THE DITCH -- THE APPLICANT WILL LINE THE DITCH 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, WATERING THE SOD TO PROMOTE ROOT GROWTH INTO THE DISTURBED SOIL, AND ANCHORING THE SOD WITH JUTE OR PLASTIC MESH TO PREVENT THE SOD STRIPS FROM SLOUGHING DURING FLOW CONDITIONS. INSTALL A STONE LINING IN THE DITCH --THE APPLICANT WILL LINE THE DITCH WITH STONE RIPRAP BY NOVEMBER 15. THE APPLICANT WILL HIRE A REGISTERED PROFESSIONAL ENGINEER TO DETERMINE THE STONE SIZE AND LINING THICKNESS NEEDED TO WITHSTAND THE ANTICIPATED FLOW VELOCITIES AND FLOW DEPTHS WITHIN THE DITCH. IF NECESSARY, THE APPLICANT WILL REGRADE THE DITCH PRIOR TO PLACING THE STONE LINING SO TO PREVENT THE STONE LINING FROM REDUCING THE DITCH'S CROSS-SECTIONAL AREA.

2. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SLOPES -- THE APPLICANT WILL CONSTRUCT AND STABILIZE STONE-COVERED SLOPES BY NOVEMBER 15. THE APPLICANT WILL SEED AND MULCH ALL SLOPES TO BE VEGETATED BY SEPTEMBER 15. THE DEPARTMENT WILL CONSIDER ANY AREA HAVING A GRADE GREATER THAN 15% (10H:1V) TO BE A SLOPE. IF THE APPLICANT FAILS TO STABILIZE ANY SLOPE TO BE VEGETATED BY SEPTEMBER 15, THEN THE APPLICANT 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 APPLICANT WILL SEED THE DISTURBED SLOPE WITH WINTER RYE AT A SEEDING RATE OF 3 POUNDS PER 1000 SQUARE FEET AND APPLY EROSION CONTROL MATS OVER THE MULCHED SLOPE. 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 75% 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 III OF THIS CONDITION OR WITH STONE RIPRAP AS DESCRIBED IN ITEM IV OF THIS CONDITION.

STABILIZE THE SLOPE WITH SOD -- THE APPLICANT 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 APPLICANT 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 APPLICANT 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.

3. STANDARD FOR THE TIMELY STABILIZATION OF DISTURBED SOILS -- BY SEPTEMBER 15 THE APPLICANT WILL SEED AND MULCH ALL DISTURBED SOILS ON AREAS HAVING A SLOPE LESS THAN 15%. IF THE APPLICANT FAILS TO STABILIZE THESE SOILS BY THIS DATE, THEN THE APPLICANT 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 APPLICANT 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 75 POUNDS PER 1000 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 GROW AT LEAST THREE INCHES OR COVER AT LEAST 75% OF THE DISTURBED SOIL BEFORE NOVEMBER 15, THEN THE APPLICANT WILL MULCH THE AREA FOR OVER-WINTER PROTECTION AS DESCRIBED IN ITEM III OF STABILIZE THE SOIL WITH SOD -- THE APPLICANT WILL STABILIZE THE DISTURBED SOIL WITH PROPERLY INSTALLED SOD BY OCTOBER 1. PROPER INSTALLATION

NCLUDES 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.

MOIL NOTE

ED

S

CONT NOIS

DESIGNED SMF DRAWN DAB CHECKED SMF DATE 09/27/23 SCALE NTS

**PROJECT** 

SHEET 8 OF11

19300-01

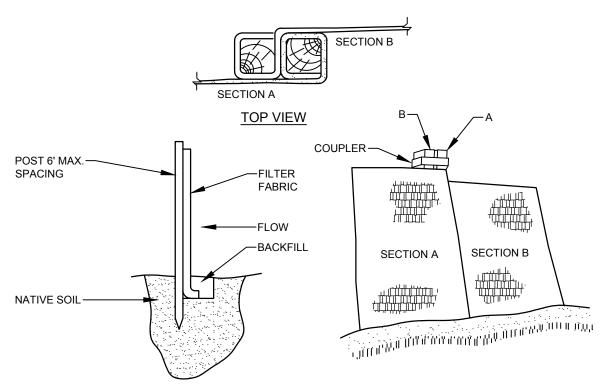
TAX MAP 39, BLOCK 2, LOT 3

STONE SIZE- AASHTO DESIGNATION M43, SIZE NO. 2 (2 1/2" TO 1 1/2"). USE CRUSHED STONE. LENGTH- AS SHOWN ON PLANS, MIN. 50 FEET.

THICKNESS- NOT LESS THAN EIGHT (8) INCHES. WIDTH- NOT LESS THAN FULL WIDTH OF ALL POINT OF INGRESS OR EGRESS. 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

### STABILIZED CONSTRUCTION ENTRANCE

NOT TO SCALE



EXCAVATE A 6"x 6" TRENCH ALONG THE LINE OF PLACEMENT FOR THE FILTER BARRIER. UNROLL A SECTION AT A TIME AND POSITION THE POSTS AGAINST THE BACK (DOWNSTREAM) WALL OF THE TRENCH.

DRIVE POSTS INTO THE GROUND UNTIL APPROXIMATELY 2" OF FABRIC IS LYING ON THE TRENCH BOTTOM. 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.

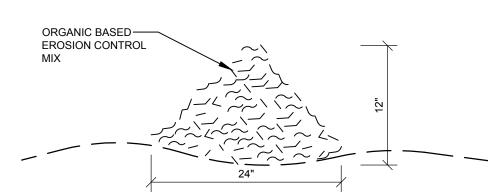
JOIN SECTION AS SHOWN ABOVE. BARRIER SHALL BE MIRAFI SILT FENCE OR EQUAL.

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 KEYED 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. FILTER BARRIER NEEDS TO BE REMOVED WHEN THE AREA IS STABILIZED.

### FILTER BARRIER NOT TO SCALE



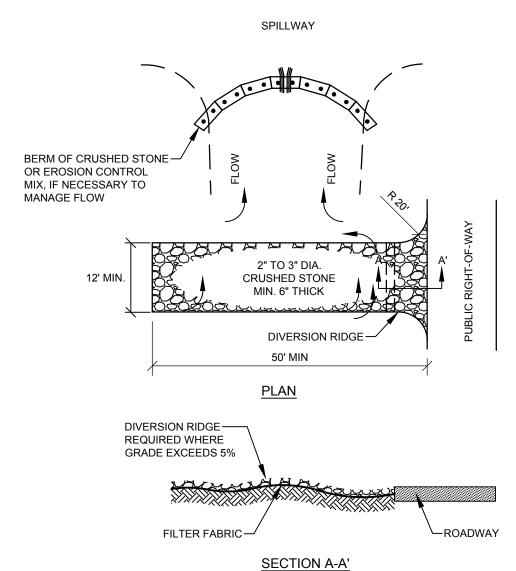
EROSION CONTROL MIX SHALL BE MANUFACTURED ON OR OFF THE PROJECT SITE SUCH THAT ITS COMPOSITION IS IN ACCORDANCE WITH THE MDEP MAINE EROSION AND SEDIMENT CONTROL BMP MANUAL LAST REVISED 2016 OR LATER. IT MUST CONSIST PRIMARILY OF ORGANIC MATERIAL, SEPARATED AT THE POINT OF GENERATION, AND MAY INCLUDE: 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.

EROSION CONTROL MIX SHOULD CONTAIN A WELL-GRADED MIXTURE OF PARTICLE SIZES AND MAY CONTAIN ROCKS LESS THAN 4" IN DIAMETER. EROSION CONTROL MIX SHOULD BE FREE OF REFUSE, PHYSICAL CONTAMINANTS, AND MATERIAL TOXIC TO PLANT GROWTH SUCH AS FLY ASH OR YARD SCRAPING. LARGE PORTIONS OF SILTS, CLAYS OR FINE SANDS ARE NOT ACCEPTABLE IN THE MIX. THE MIX COMPOSITION SHOULD

- THE ORGANIC MATTER CONTENT SHOULD BE BETWEEN 80% AND 100%, DRY WEIGHT BASIS. 2. PARTICLE SIZE BY WEIGHT SHOULD BE 100% PASSING A 6" SCREEN AND 70% TO 85% PASSING A 0.75"
- THE ORGANIC PORTION NEEDS TO BE FIBROUS AND ELONGATED.
- 4. SOLUBLE SALTS CONTENT SHALL BE < 4.0 MMHOS/CM. 5. THE PH SHOULD BE BETWEEN 5.0 AND 8.0.

- 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
- 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, GREATER THAN 8%, OR CONVEY FLOWING WATER.

### **EROSION CONTROL MIX BERM**



COARSE AGGREGATE

(2-3" STONE) OR

MATCH FUTURE

DITCH LINING SIZE

L= THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL

STONE CHECK DAM

STOCKPILE

SEED TOPSOIL STOCKPILE WITH WINTER RYE

APPLY HAY MULCH AT THE RATE OF 100lbs PER

AT THE RATE OF 3lbs PER 1000 sq.ft. BY

OCTOBER 1st OF CONSTRUCTION SEASON.

1000 sa.ft. OR APPLY A TACKIFIER BY HYDRO

SEEDING METHODS AFTER SEEDING. MULCH

SHALL BE REAPPLIED ON THE STOCKPILE IF

GRASS GROWTH DOES NOT COVER AT LEAST

SEEDLINGS AT LEAST 3" HIGH BY NOVEMBER

STOCKPILES IS LIMITED TO TEMPORARY PILES

90% OF THE STOCKPILE SURFACE WITH

1st. THE USE OF RYE FOR STABILIZING

STANDING NO LONGER THAN 1 YEAR OR

CONSERVATION MIX FOR TIMES LONGER.

SILT FENCE TO BE INSTALLED PER THE SILT

ACCUMULATED SEDIMENTS WILL BE REMIXED

FENCE DETAIL

INTO THE TOPSOIL.

ELEVATION

#### **CONSTRUCTION SPECIFICATIONS:**

THE ENTRANCE/EXIT PAD SHOULD HAVE A LENGTH OF 50 FEET OR MORE AND A 12 FOOT MINIMUM WIDTH (OR AS APPROPRIATE TO CONTAIN THE WHEEL BASE OF CONSTRUCTION VEHICLES PLUS 3 FEET ON EITHER SIDE).

2. THE PAD SHOULD BE 8 INCHES OR MORE THICK WITH ANGULAR AGGREGATE (2-3 INCH DIAMETER). APPROPRIATE RECLAIMED CONCRETE MATERIAL MAY BE USED. THE AGGREGATE SHOULD BE PLACED OVER A GEOTEXTILE FILTER TO PREVENT THE STONES

FROM PUSHING INTO THE NATIVE SOIL 4. AT THE BOTTOM OF SLOPES, A DIVERSION RIDGE SHOULD BE PROVIDED TO INTERCEPT RUNOFF. BERMS MAY BE NECESSARY TO DIVERT WATER AROUND ANY EXPOSED SOIL, AND RUNOFF

6. THE WHEELS OF CONSTRUCTION EQUIPMENT MAY BE WASHED PRIOR TO EXITING THE SITE. WASHING SHOULD BE PERFORMED IN AN AREA THAT DRAINS TO A SEDIMENT TRAP OR BASIN.

8. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY

A PAD OF COURSE AGGREGATE AT THE CONSTRUCTION ENTRANCE/EXIT WILL REDUCE THE TRACKING OF SOIL FROM CONSTRUCTION TRAFFIC ONTO A PUBLIC STREET. SEDIMENTS FROM THE TIRE TREADS ARE KNOCKED LOOSE BY THE ANGULAR STONES AND ARE TRAPPED IN THE VOIDS

CHECK DAMS ARE INTENDED FOR THE SETTLEMENT OF SEDIMENTS AND

FLOW VELOCITY REDUCTION. A DITCH LINING THAT IS ADAPTED TO THE

SLOPE WILL BE NECESSARY FOR EROSION CONTROL (I.E. ONE ROW OF

A STONE CHECK DAM SHOULD BE COMPRISED OF WELL-GRADED CRUSHED

6-INCH DEPRESSION AT ITS CENTER FOR OVERFLOW. THE EDGES OF THE

5. THE MAXIMUM HEIGHT OF A STONE CHECK DAM SHOULD BE 2 FEET WITH A

DAM SHOULD BE KEYED INTO THE EMBANKMENTS TO PREVENT SIDE

NECESSARY TO ACHIEVE A TIGHT MASS WITHIN THE CHANNEL AND TO ENSURE THAT THE CENTER OF THE DAM IS LOWER THAN THE EDGES.

ANY EROSION DOWNGRADIENT OR AROUND THE EDGES OF STONE CHECK

STABILIZE WITH-

BLANKET

EROSION CONTROL

6. MECHANICAL PLACEMENT FOLLOWED BY HAND PLACEMENT WILL BE

8. TEMPORARY CHECK DAMS MAY BE REMOVED WHEN THE SWALE IS

STABILIZED WITH WITH VEGETATION (90% COVERAGE).

ROCK WITH A MAXIMUM SIZE OF 6 INCHES AND A MINIMUM STONE SIZE OF 2

CHECK DAMS SHOULD BE INSTALLED BEFORE RUNOFF IS DIRECTED TO

3. THE AREA AROUND EACH CHECK DAM SHOULD BE FREE OF DEBRIS.

INCHES. LARGER STONES MAY BE USED ON STEEP SLOPES.

EROSION CONTROL BLANKET AT A MINIMUM).

DAMS SHOULD BE CORRECTED IMMEDIATELY.

THE SWALE

STOCKPILED SOILS SHOULD BE COVERED WITH AN EROSION

INSTALLED ALONG THEIR DOWNGRADIENT EDGE TO COLLECT

CONTROL COVER, AND A SEDIMENT BARRIER SHOULD BE

RUNOFF AND SEDIMENTS. IN SOME SITUATIONS, PLASTIC

NON-WOVEN GEOTEXTILE FABRIC MAY BE USED TO COVER

STOCKPILES. PLASTIC SHEETING SHOULD BE POLYTHYLENE

• THE SOIL SURFACE SHOULD BE SMOOTH AND FREE OF

PROTRUDING ROCKS AND DEBRIS TO PREVENT

A FABRIC COVER SHOULD BE PROVIDED WITH 12 TO

TO PREVENT BALLOONING OR BLOWOUTS.

24-INCH OVERLAPS IN THE DIRECTION OF RUNOFF.

ANCHORING SHOULD BE CONTINUOUS ALONG EACH SIDE

TOPSOIL FROM AN AGRICULTURAL SOURCE MAY BE HIGH

BE TAKEN WITH A SECURE COVER IF STOCKPILED

UPSLOPE FROM A PROTECTED NATURAL RESOURCE.

INSPECT REGULARLY AND BEFORE, DURING AND AFTER

ANY MAJOR RAIN EVENT AND REPAIR AS NECESSARY.

OF THE PILE. ON THE WINDY SIDE, ADDITIONAL ANCHORS

IN NITROGEN AND PHOSPHORUS. SPECIAL CARE SHOULD

SHOULD BE PROVIDED TO MAINTAIN SOIL COVERAGE AND

SHEETING OR OTHER MATERIAL SUCH AS WOVEN OR

WITH A MINIMUM THICKNESS OF 4 MILS.

PUNCTURES OF A FABRIC COVER.

MATERIAL STOCKPILE EROSION

PREVENTION DETAIL

NOT TO SCALE

# SHOULD BE DIRECTED TO A SEDIMENT TRAP. THE PAD SHOULD BE INSPECTED WEEKLY, AND BEFORE AND AFTER EACH STORM. THE PAD MAY HAVE TO BE REPLACED IF THE VOIDS BECOME FILLED WITH SEDIMENT. LENGTH TOP VIEW

# AGGREGATE OR STRAW -UNDERLAYMENT

DIRTBAG ®

BAG PLACED ON-

AGGREGATE OR

-HIGH STRENGTH

"J" TYPE SEAMS -SEWN IN SPOUT

-HIGH STRENGTH

STRAPPING FOR

HOLDING HOSE

IN PLACE

HOSE

DISCHARGE

-WATER FLOW

ACCOMODATES

FROM PUMP

DISCHARGE

OPENING

UP TO 4"

DOUBLE STITCHED

6" THICK LAYER -

CRUSHED STONE

OF <sup>3</sup>/<sub>4</sub>" TO <sup>1</sup>/<sub>2</sub>" DIA.

FILTER BAG-

SILTY WATER-

OPENING AND-

FOR UP TO 4"

DIA. HOSE

HOSE

STRAP CLOSURE

PUMP DISCHARGE -

GEOTEXTILE FABRIC-

UNDER STONE FOR

EASE OF REMOVAL

FROM PUMP

A GEOTEXTILE FIBER IS A PREFABRICATED SACK THAT IS USED TO FILTER SEDIMENTS FROM DEWATERING ACTIVITIES. A FILTER BAG SHOULD BE USED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDED GUIDELINES. CONSULT THE DEP IF THE STRUCTURE WILL BE WITHIN 75 FEET OF A PROTECTED NATURAL RESOURCE OR IF SECONDARY CONTAINMENT IS REQUIRED.

SIDE VIEW

- INSTALL THE FILTER BAG PRIOR TO INITIATING ANY ACTIVITIES WHICH WILL REQUIRE DEWATERING.
- THE TYPE OF FABRIC SHOULD BE BASED ON THE SIZE OF SOIL PARTICLES TO BE TRAPPED (I.E. A WOVEN MATERIAL FOR COARSE PARTICELS AND A NONWOVEN MATERIAL FOR FINER PARTICLES).
- A FILTER BAG SHOULD BE LOCATED IN AN AREA MOSTLY LEVEL ( WITH LESS THAN 5% SLOPE). A PAD OF CRUSHED GRAVEL MAY BE PROVIDED.
- AVOID DISCHARGING TO AN AREA THAT IS BARE OF VEGETATION OR NEWLY VEGETATED. ANY SIGN OF EROSION OR CHANNELIZATION FROM THE
- DISCHARGED WATER REQUIRES IMMEDIATE CORRECTION. FILTER BAGS HAVE A FINITE CAPACITY FOR SEDIMENT COLLECTION AND MAY BE
- PRONE TO PLUGGING. AVOID OVER-PRESSURIZING THE BAG OR IT MAY BURST. IF A SEDIMENT DISCHARGE IS OBSERVED, INSPECT THE FILTER BAG FOR TEARS

#### DIRTBAG PUMPED SILT CONTROL SYSTEM NOT TO SCALE

\_EXISTING

**GRADE** 

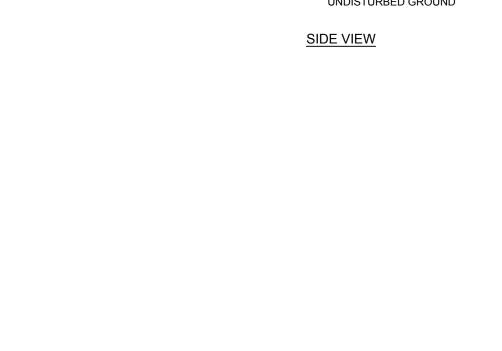
└─6" LOAM & SEED

3:1 MAXIMUM SLOPE-

**>----**

3'-0" MIN.

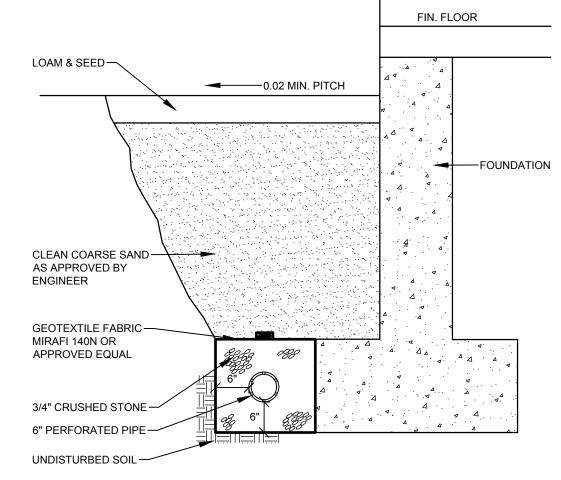
**GRASSED SWALE** 



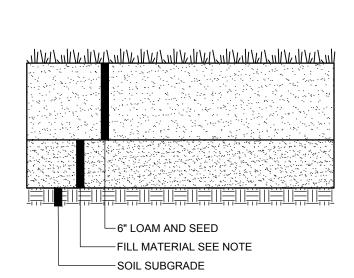
TOP VIEW

EXTEND FABRIC 2'-

BEYOND STONE

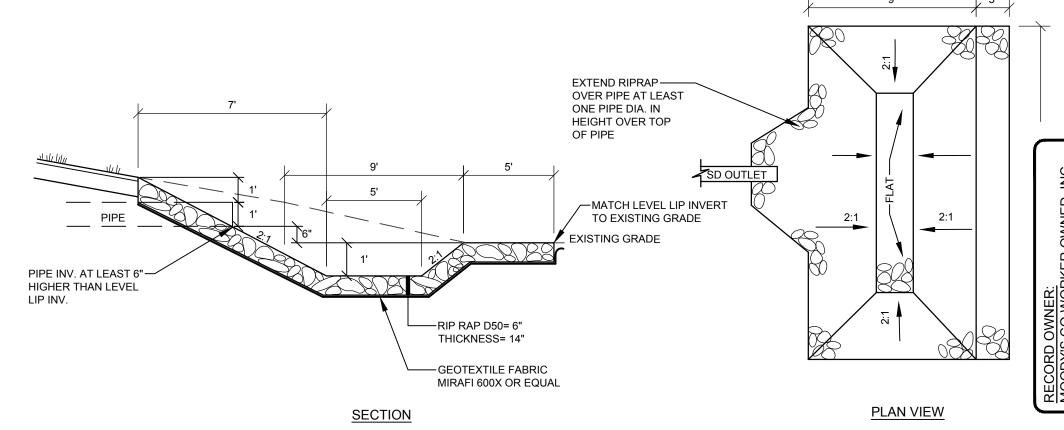


### FOUNDATION DRAIN SECTION NOT TO SCALE



1. FILL USED TO RAISE GRADE OVER SOIL SUBGRADES SHALL BE COMMON BORROW (MDOT 703.19)

NOT TO SCALE



RIPRAP LEVEL LIP OUTLET NOT TO SCALE

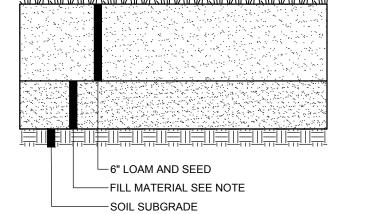
TAX MAP 39, BLOCK 2, LOT 3

SMF DAB SMF 09/27/23 NTS PROJECT 19300-01

SHEET 9 OF11

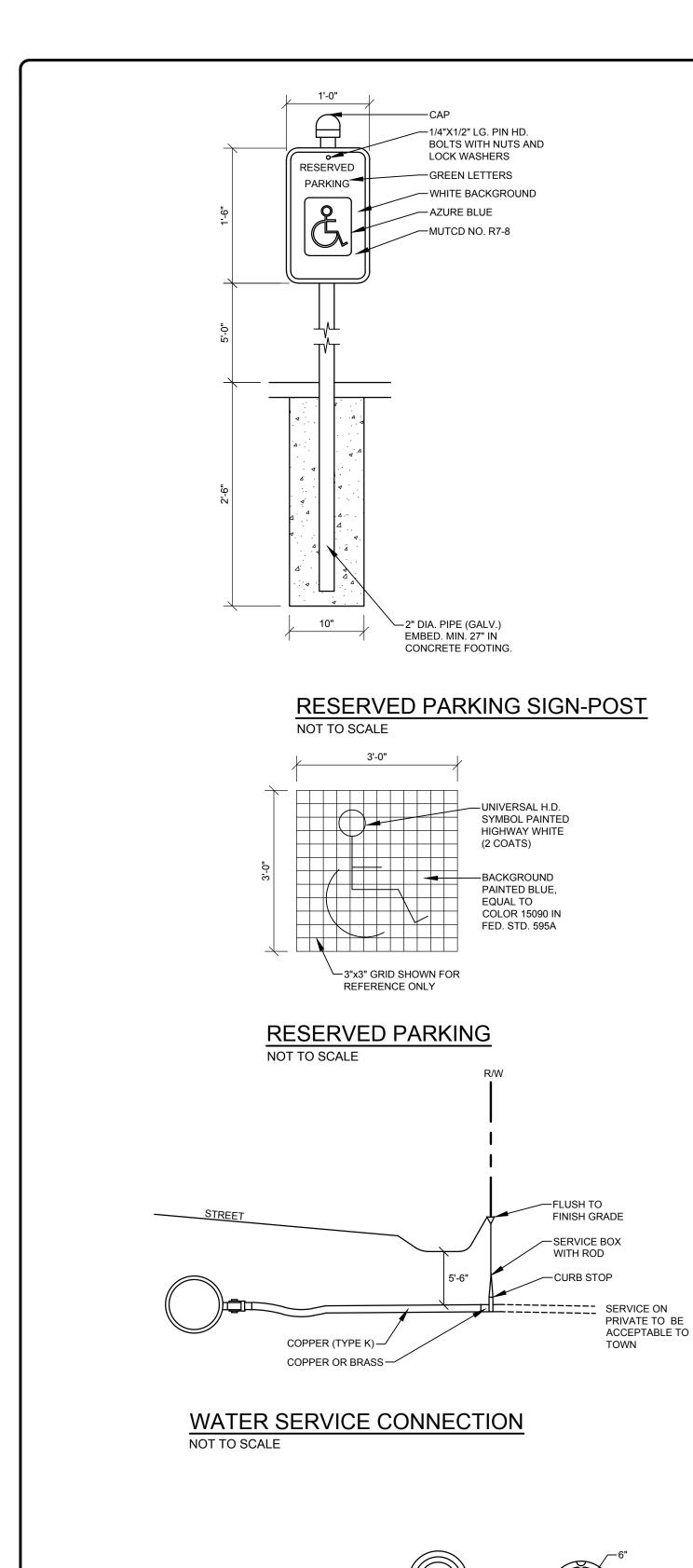
FINISH GRADE OR ----UNDISTURBED GROUND

DESIGNED DRAWN CHECKED DATE SCALE



2. FILL SHALL BE GRANULAR BORROW IN AREAS INDICATED IN GEOTECHNICAL REPORT

LOAM & SEED



BELL TYPE BASE

WITH BOTTOM LIP

BASE SECTION NO. 645

INTERMEDIATE

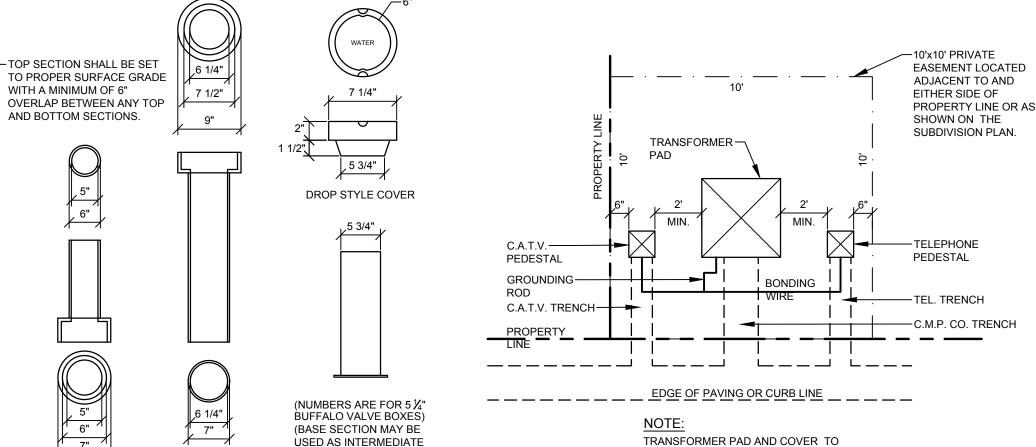
NOT TO SCALE



SECTION)

TOP SECTION NO.56

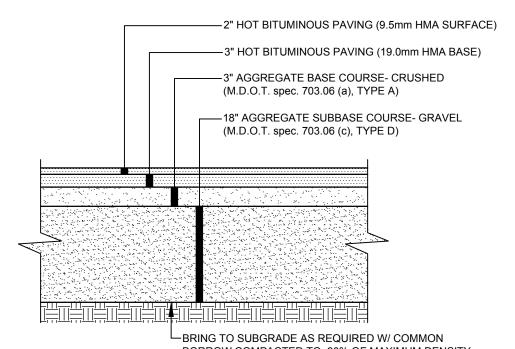
**VALVE BOX & COVER** 



TRANSFORMER CMP

BE FIBERGLASS MEETING CENTRAL

MAINE POWER SPECIFICATIONS.

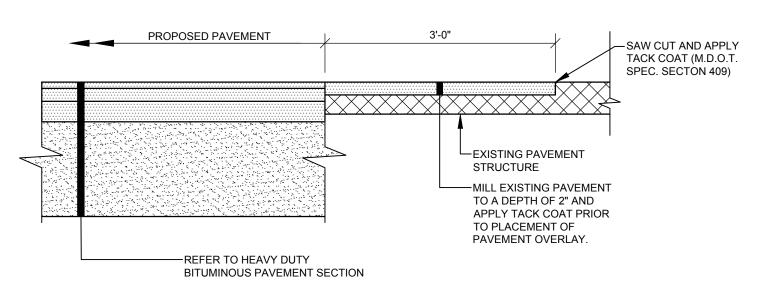


BORROW COMPACTED TO 90% OF MAXIMUM DENSITY. COMPACT GRAVEL SUBBASE, BASE COURSE TO 95% OF MAXIMUM DENSITY USING HEAVY ROLLER COMPACTION.

## HEAVY DUTY BITUMINOUS PAVEMENT

NOT TO SCALE

CONTRACTOR SHALL SET GRADE STAKES MARKING SUBBASE AND FINISH GRADE ELEVATIONS FOR CONSTRUCTION



—CLEAN BACKFILL

DIAMETER

CONTAINING NO ROCKS

LARGER THAN 5" IN

-TELEVISION CABLE

TELEPHONE CABLE

CONDUIT

→ BEDDING OF SAND

-PRIMARY OR SECONDARY

ELECTRICAL CABLES IN

NON-MERCURY

S.S. "U" CHANNELS

4" DIA. GALV.

POSTS W/CAPS

(2) 2" CONDUITS

2" G.S. COUPLING

NON-MERCURY -

AS REQUIRED

LAG PUMP ON

LEAD PUMP ON

ALL PUMPS OFF

SUBMERSIBLE

**GRINDER PUMP** 

4" PVC SEWER INV

HIGH WATER ALARM

1. CONCRETE: 5,000 PSI AFTER 28 DAYS.

SLAB TOP #5 @ 8" O.C.

2. REINFORCING: WALLS & FLOOR 4x4/4x4 W.W.M.

FLOAT SWITCHES

INLET BOOT LOCATED —

SEAL WYE ---

FLOAT SWITCHES -

PAVEMENT JOINT

NOT TO SCALE

MIN.

MATCH PROPOSED PAVEMENT/

STRUCTURE, OR LOAM AND SEED

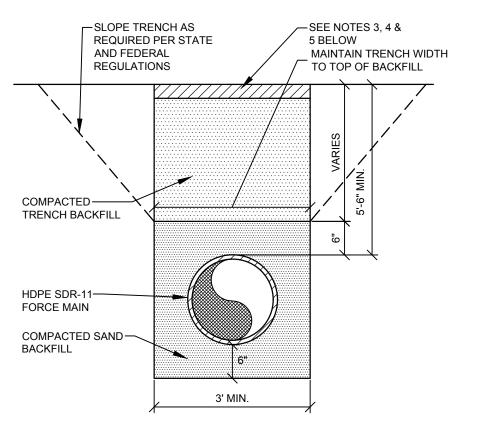
PLASTIC MARKER TAPE PLACED-

IN CENTER OF TRENCH

APPROXIMATELY 12" BELOW

AS REQUIRED

FINISH GRADE



- PLACE TRENCH BACKFILL MATERIAL IN 12" LIFTS. COMPACT EACH LIFT TO 92% OF MAXIMUM.
- TRENCH WORK IN GRAVEL SHOULDERS TO INCLUDE 15" OF NEW SURFACE GRAVEL. GRAVEL TO BE COMPACTED TO 92% OF MAXIMUM. 15" OF GRAVEL SHALL INCLUDE 12" M.D.O.T. 730.06 (b) TYPE "D" AND 3" SURFACE COURSE OF M.D.O.T. 703.06 (a) TYPE "A".
- TRENCH WORK IN AREA OUTSIDE OF ROADWAYS AND SHOULDERS SHALL BE RESTORED TO PRECONSTRUCTION CONDITIONS OR AS DIRECTED BY TOWN ENGINEER.
- 5. RESTORE ALL PRIVATE DRIVEWAYS DISTURBED BY CONSTRUCTION.

PRESSURE SEWER TRENCH NOT TO SCALE

- DUPLEX CONTROL PANEL AND PEDESTAL,

MIN. 5' FROM VENT

RACK

EL.=D

MIN. 3' FROM HATCH IN OPEN POSITION AND

- 2'-6" X 4'-0" GALV. STEEL ACCESS COVER (H-20

LOADING) WITH SECONDARY FALL PROTECTION

- 4" MUSHROOM VENT

W/ CARBON FILTER

- STAINLESS STEEL

- STAINLESS STEEL

LIFTING CHAIN

2" DISCHARGE

FORCE MAIN TO BE 2.0"

BUTT FUSED HDPE PIPE

2" SCH 80 PVC PIPE

& CHECK VALVE

CONCRETE FILLET

EQUAL

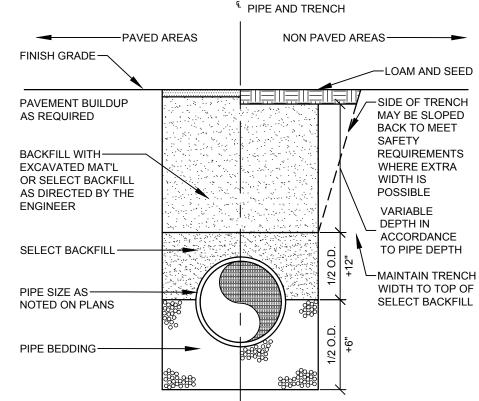
EACH DISCHARGE SHALL

HAVE SHUT OFF VALVES

- CONERY 1 1/4" BERS0125EX

BREAKAWAY SYSTEM OR

GUIDE PIPES



	·		
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-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	

ALL BRACING AND SHEETING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL MEET ALL STATE AND O.S.H.A. SAFETY STANDARDS. TRENCH SECTION NOT TO SCALE

#### **NOTES**

- 1. LIFT STATION SHALL BE DUPLEX LIFT STATION PANEL AND CONTROLS FOR THE OPERATIONS OF 2.0 HOMA GRINDER PUMPS OPERATING AT APPROXIMATELY THE DUTY POINT LISTED IN THE TABLE BELOW. THE PUMPS ARE MODEL GRP16/1, 1 PHASE, 60 HZ, 230 VOLT, 3450 RPM AND 8.0 FLA WITH THE INSTALLED IMPELLER.
- PUMPS SHALL HAVE BREAK AWAY FITTINGS. BREAK AWAY FITTINGS SHALL BE NON-SPARKING. RAIL GUIDE FOR 1/2" RAILS SHALL BE HOMA MODEL NO. 8604005 WITH GUIDE CLAW MODEL NO. 76323232.
- 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.
- 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
- 5. THE MAIN BREAKERS (CONTROL AND PUMPS) AND FUSES FOR BOTH THE ALARM AND CONTROLS SHALL BE ACCESSIBLE WITHOUT OPENING THE
- 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, UL698A 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
- 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 A AN ALTERNATING SEQUENCE. PANEL, CONTROLS AND ELECTRICAL COMPONENTS SHALL BE EXPLOSION PROOF.
- 8. THE PANEL SHALL BE MODEL 331 MANUFACTURED BY PRIMEX CONTROLS WITH INTRINSICALLY SAFE RELEASE CIRCUITS.
- 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 MATCHED 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 4X4/4X4 W.W.M. SLAB TOP #5 @ 8" O.C.
- 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
- ALL LIFT STATION PIPING SHALL BE SCH 80 PVC
- 17. COAT EXTERIOR OF STRUCTURES WITH KOPPERS BITUMASTIC 3000
- 18. WET WELL SHALL BE INSTALLED ON A MINIMUM 12" BED OF SCREENED GRAVEL.
- BEFORE ORDERING STATION.
- 20. CONTRACTOR TO SUBMIT SPECIFICATIONS FOR PUMPS, CONTROL PANELS, AND ALARM FOR OWNER AND ENGINEERS APPROVAL.

19. CONTRACTOR TO CONFIRM OPERATING ELEVATIONS WITH ENGINEER

- 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	1	
PUMP	HOMA	
MODEL	GRP16/1 FM	
IMPELLER	AS INSTALLED	
FLOW (GPM)	65.5	
TDH (FT)	32.4	
VOLTAGE	230	
HP	1.6	
PHASE	1Ø	
HERTZ	60	
RPM	3450	

PUMP STATION SCHEDULE MEASUREMENT (FT.) STATION В 238.10 237.47 236.97 236.47 234.97 233.47 243.60 243.10 237.85 5.0'

PUMP STATION DETAIL
NOT TO SCALE

TAX MAP 39, BLOCK 2, LOT 3

DESIGNED SMF DRAWN CHECKED

DAB SMF 09/27/23 DATE SCALE NTS PROJECT 19300-01

SHEET10 OF11

### **GENERAL POND CONSTRUCTION NOTES:**

- 1. SEE DETAIL SHEETS FOR EROSION CONTROL NOTES.
- 2. SOIL STOCKPILES SHALL NOT BE LOCATED WITHIN 100 FEET OF ANY NATURAL RESOURCES. STOCKPILES SHALL BE CONTAINED WITH A DOUBLE BOUNDARY OF FILTRATION BARRIER. SEE EROSION CONTROL NOTES.
- PIPE MATERIALS: a) STORM DRAIN: SMOOTH WALL CORRUGATED HDPE b) UNDER DRAIN: 6" PERFORATED PVC
- 4. INSTALL ANTI-SEEP COLLARS ALONG OUTLET PIPE AT 20' SPACING ON ON

#### **EMBANKMENT CONSTRUCTION**

- 1. THE BEST BORROW MATERIAL FOR EMBANKMENT CONSTRUCTION WILL TYPICALLY BE FROM UPLAND SOILS ON THE PROJECT SITE. HOWEVER, BORROW MATERIAL CAN BE TAKEN FROM ANYWHERE AS LONG AS CONSTRUCTION BORROW MATERIAL MEETS M.D.O.T. SPECIFICATIONS.
- 2. CONSTRUCT A "CORE" TRENCH IN THE UNDERLYING SOILS OF THE EMBANKMENT DOWN THROUGH THE UNSTABLE OR PERVIOUS SOILS AND KEY INTO THE UNDERLYING LAYER OF MORE STABLE AND RELATIVELY IMPERMEABLE SOIL.
- 3. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM.
- 4. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS.
- 5. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION

### WET POND CONSTRUCTION **SEQUENCE AND DEWATERING:**

- INSTALL TREE SAVE FENCING, CLEAR TREES
   INSTALL PERIMETER EROSION CONTROLS PRIOR TO STUMPING AND GRUBBING OR SOIL DISTURBANCE.
- CLEAR AND GRUB POND AREA 4. INSTALL RIPRAP OUTLET PIPE APRON.
- 5. INSTALL DIRTBAG DEWATERING FILTER SYSTEM AS INDICATED ON GRADING AND DRAINAGE PLANS. BEGIN
- BYPASS PUMPING OF POND AREA AS REQUIRED. INSTALL OUTLET PIPE.
- INSTALL OUTLET CONTROL STRUCTURE.
- 8. GRUB EMBANKMENT SUBGRADE AND CONSTRUCT EMBANKMENT CUT/FILL. 9. INSTALL POND BENCH UNDERDRAIN AND CONNECT TO OUTLET CONTROL STRUCTURE
- 10. STABILIZE PERMANENT (EXTERIOR) POND EMBANKMENTS WITH SEED AND EROSION CONTROL MIX (WOOD WASTE
- 11. STABILIZE TEMPORARY SLOPES WITH HAY MULCH AND/OR EROSION CONTROL BLANKET
- 12. COMPLETE POND SHAPING. INSTALL RIPRAP SPILLWAY AND PIPE INLET AREAS.
- 13. INSTALL INLET PIPING
- 14. AT COMPLETION OF SITE CONSTRUCTION AND FOLLOWING PERMANENT SITE STABILIZATION, INSPECT POND FOR ACCUMULATED SEDIMENT. DEWATER POND AND RESHAPE AS NECESSARY TO REESTABLISH DESIGN GRADES.
- 15. INSTALL FINAL LOAM, SEED AND EROSION CONTROL BLANKET ON TOP OF BERM AND INTERIOR SLOPES.

### WET POND CLAY LINER CONSTRUCTION/INSTALLATION

- LEDGE REMOVAL MAY BE REQUIRED FOR CONSTRUCTION OF WET POND. WHERE LEDGE IS ENCOUNTERED, REMOVE AT MINIMUM 18 INCHES ON SIDES AND BOTTOM AND INSTALL 12" CLAY LINER AND 6" OF SAND. CLAY LINER SHALL MEET THE FOLLOWING SPECIFICATION:
- 2. <u>CLAY MATERIAL:</u> SILTY CLAY OR CLAYEY SILT. SIEVE ANALYSIS BY WEIGHT:

SIEVE SIZE	MAX % PASSING BY W
<u></u>	100
NO. 10	95-100
NO. 40	90-100
NO. 60	85-100
NO. 100	75-100
NO. 200	50-100

MOISTURE CONTENT OF MATERIAL AFFECTS DENSITY AND PERMEABILITY. THE MOISTURE CONTENT OF THE MATERIAL AT THE TIME OF PLACEMENT SHALL BE SUFFICIENT TO ACHIEVE SPECIFIED RESULTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING THE THE MOISTURE CONTENT OF ALL MATERIAL AND ANY RECONDITIONING REQUIRED TO ACHIEVE THE SPECIFIED DENSITY AND PERMEABILITY REQUIREMENTS CONTAINED WITHIN THE CONTRACT DOCUMENTS. THE CLAY MATERIAL SHALL HAVE A MAXIMUM PERMEABILITY OF 1.0 E-5 CM/S.

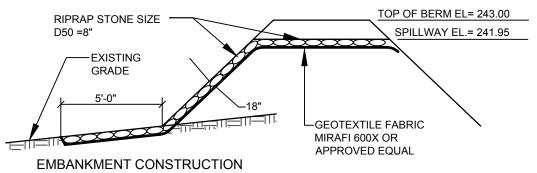
- PLACEMENT OF CLAY: PLACE CLAY MATERIAL IN LAYERS NOT TO EXCEED SIX (6) INCHES MPACTED DEPTH. DO NOT PLACE MATERIAL ON ANY SURFACE WHICH IS WET, FROZEN, OR CONTAINS FROST OR ICE.
- 4. <u>COMPACTION:</u>
  - 1. METHODS
  - A. <u>CLAY MATERIAL</u>: USE COMPACTION EQUIPMENT SUCH AS A SHEEPSFOOT OR TAMPING ROLLER WITH A MINIMUM PENETRATION OF SIX (6) INCHES AND A MINIMUM FOOT CONTACT PRESSURE OF 200 PSI. OTHER METHODS THAT PRODUCE THE REQUIRED DEGREE OF COMPACTION THROUGHOUT THE ENTIRE DEPTH OF MATERIAL MAY BE UTILIZED BASED ON CONFORMING TEST RESULTS AND ACCEPTANCE BY ENGINEER. ADJUST MOISTURE CONTENT OF SOIL AS
  - B. <u>DEGREE OF COMPACTION:</u> COMPACT TO THE FOLLOWING DENSITIES:

CLAY MATERIAL	.95% OF MAX.
MAX. DENSITY	.ASTM D698 STANDARD
FIELD DENSITY TESTS	.ASTM D2922

C. TESTING: THE CONTRACTOR SHALL DETERMINE MOISTURE-DENSITY RELATIONSHIP PROCTOR TEST) AS DIRECTED BY THE ENGINEER. TESTS SHALL BE MADE BY AN INDEPENDENT LABORATORY IF REQUIRED BY THE ENGINEER. CONTRACTOR SHALL PERFORM ADDITIONAL WORK AS NECESSARY TO OBTAIN SPECIFIED REQUIREMENTS. THIS WORK MAY CONSIST OF, BUT WILL NOT BE LIMITED TO, ADDITIONAL PASSES WITH COMPACTION EQUIPMENT ADJUSTING MOISTURE CONTENT, AND/OR REMOVING AND REPLACING INADEQUATE

TESTING STANDARDS SHALL INCLUDE THE FOLLOWING: .ASTM D2922 FIELD DENSITY. FIELD MOISTURE CONTENT. .ASTM D3017 MOISTURE/DENSITY (PROCTOR) TESTS . . .ASTM D698

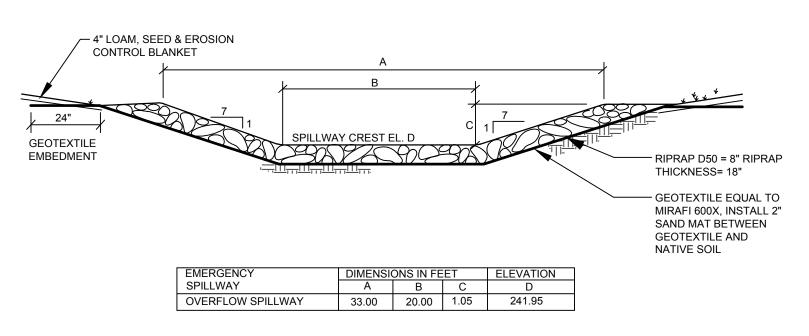
PROTECTION OF INSTALLED CLAY: THE CONTRACTOR SHALL PROTECT THE CONSTRUCTED CLAY FROM DESSICATION. DESSICATION IS DEFINED AS THE DRYING OUT OF THE CLAY MATERIAL WHICH IN TURN LEADS TO CRACKING AND INCREASED PERMEABILITY. PROTECTION METHODS INCLUDE: 1) COVERING THE CLAY WITH PLASTIC OR POLYETHYLENE TARPS; 2) CONTINUOUSLY MAINTAINING THE MOISTURE CONTENT OF THE CLAY ABOVE OPTIMUM; OR 3) OTHER METHOD DEEMED ACCEPTABLE TO THE ENGINEER. IF THE INTEGRITY OF THE CLAY SUFFERS ANY DEGRADATION DURING THE PERIOD OF CONSTRUCTION, THE ENGINEER SHALL REQUIRE THE CONTRACTOR TO REWORK, REPAIR, OR REPLACE THE AFFECTED AREA AS



1. CONSTRUCTION OF COMMON BORROW MATERIAL MEETING M.D.O.T. SPECIFICATION.

- 2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAXIMUM DRY DENSITY.
- 3. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION CONTROL

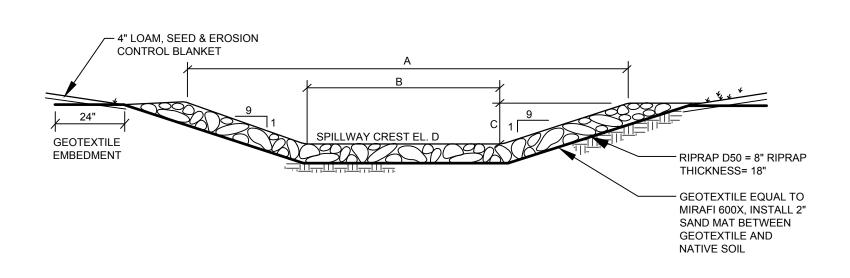
# SPILLWAY SECTION



### **EMERGENCY SPILLWAY CROSS-SECTION**

SPILLWAY POND FOREBAY

NOT TO SCALE



# FOREBAY SPILLWAY CROSS-SECTION

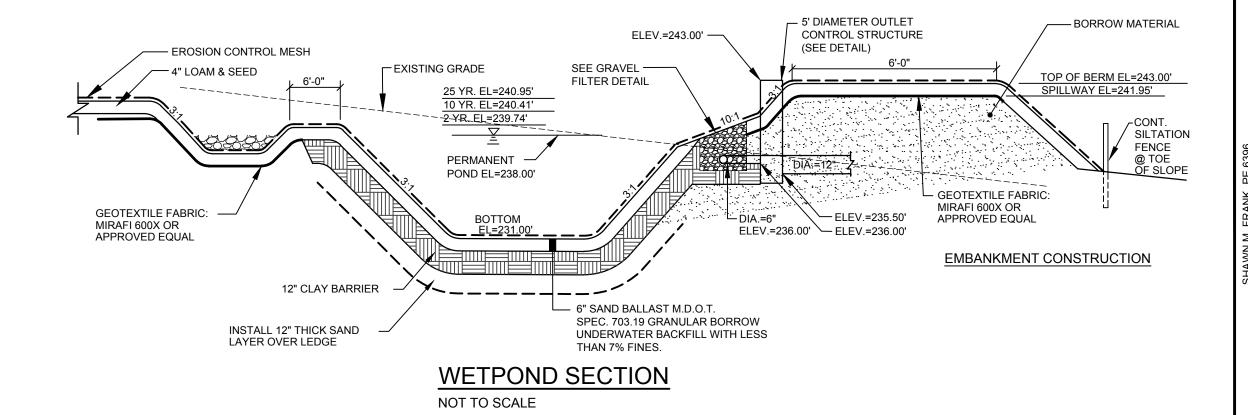
6' MIN. WIDTH VARIES - DETENTION-- EXISTING GRADE, - UNDISTURBED SOIL

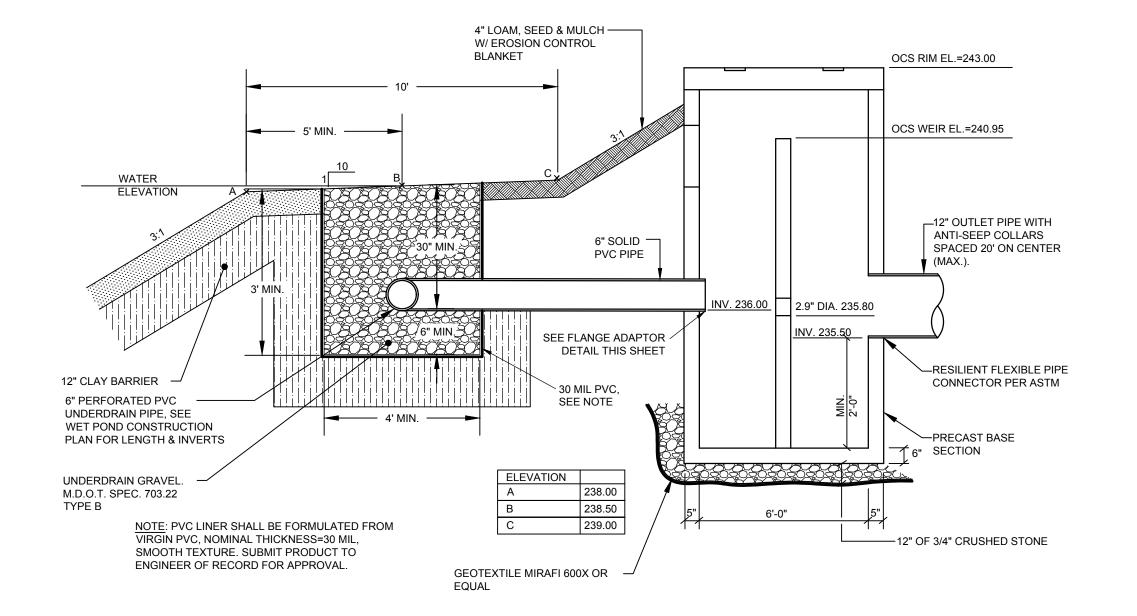
#### **EMBANKMENT CONSTRUCTION:**

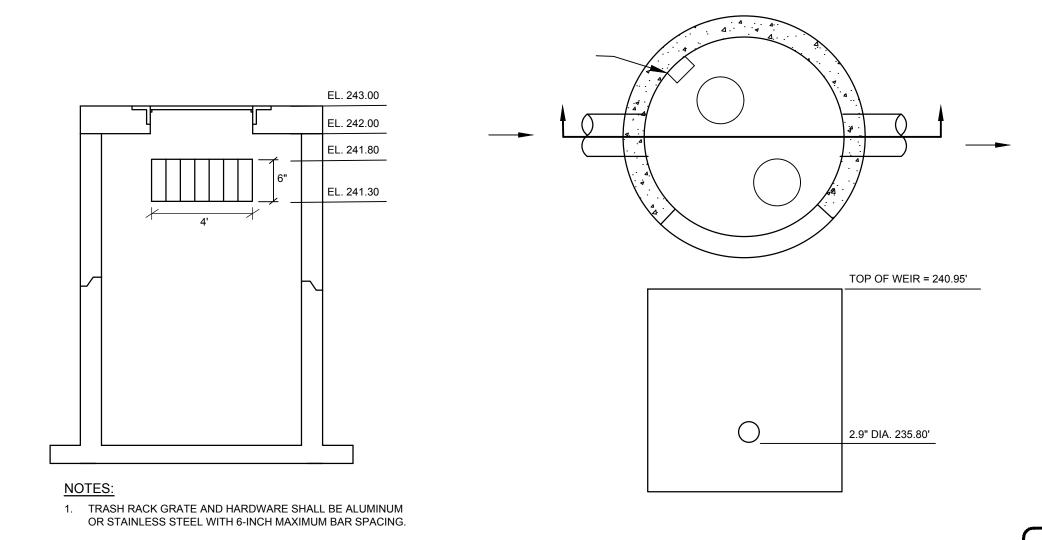
CONTROL PLAN.

- 1. CONSTRUCTION MATERIAL SHALL MEET M.D.O.T. SPECIFICATION 703.18.
- 2. PLACE BORROW MATERIAL IN 12" LIFTS COMPACTED TO 95% OF MAX. DENSITY
- 3. INSTALL RIPRAP AND EROSION CONTROL MESH WHERE SPECIFIED ON PLANS. 4. LOAM, SEED, AND STABILIZE IN ACCORDANCE WITH SEDIMENTATION AND EROSION

BERM DETAIL
NOT TO SCALE





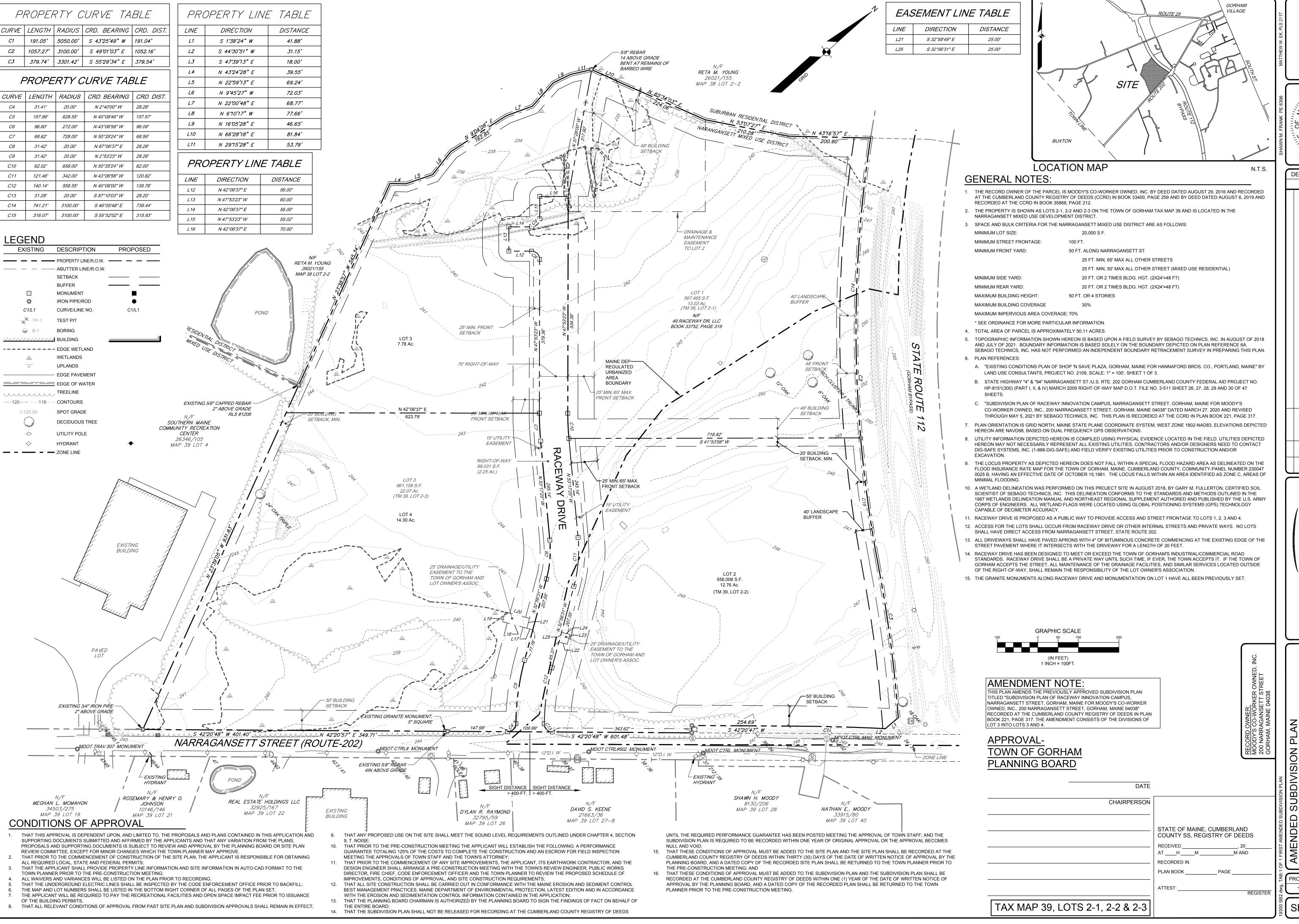


POND SAFETY BENCH/GRAVEL FILTER & OUTLET CONTROL STRUCTURE DETAIL NOT TO SCALE

DESIGNED DRAWN DAB CHECKED SMF DATE 09/27/23 SCALE NTS 19300-01 PROJECT

SHEET11 OF11

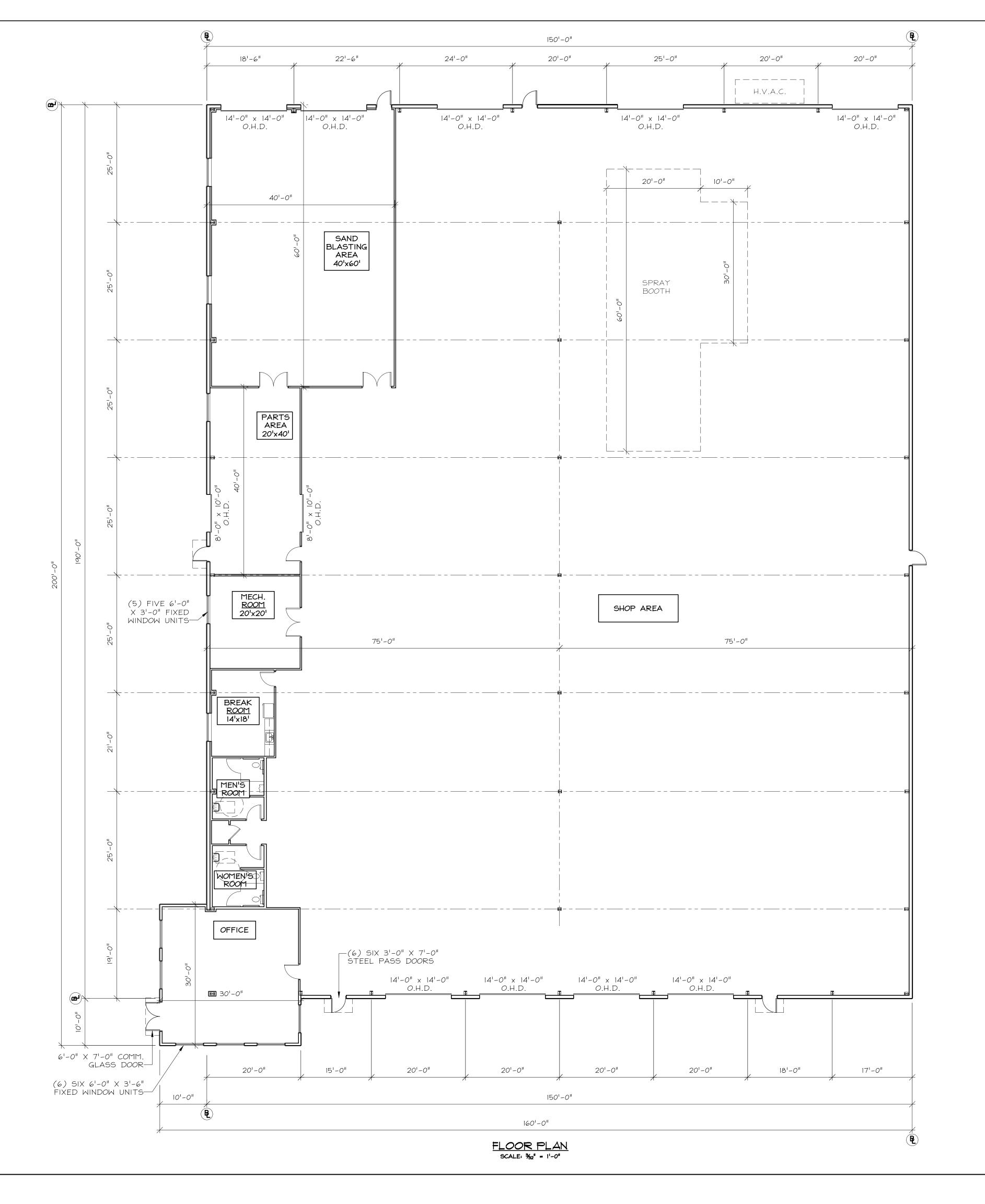
TAX MAP 39, BLOCK 2, LOT 3

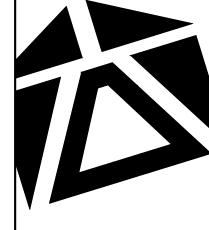


DESIGNED CHECKED CPT CDM

PROJECT NO. SCALE 19300 1" = 100'







PATC C

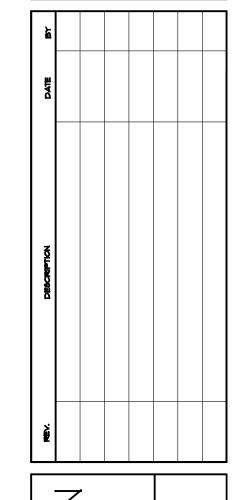
1293 MAIN STREET SANFORD, ME 04073 TEL: (207)324-5574 FAX: (207)324-1643 www.patco.com or www.patcocommercial.com

Copyright © 2023 Patco Constructio

ohn W. Einsiedler, K.A.

r C h i t e C t u r e

RS Sea Road Kennebunk, Maine 04043
none 207-985-9760 Facsimile 207-985-9818
mepage: www.johnarditet.com e-mail: je@yohnarditet.com
chitecture - Interior Design - Universal Design



MOODY'S COLLISION
NARRAGANSETT STREET
GORHAM, MAINE
FI OOR PLAN

DEC. 20, 2023

SCALE:

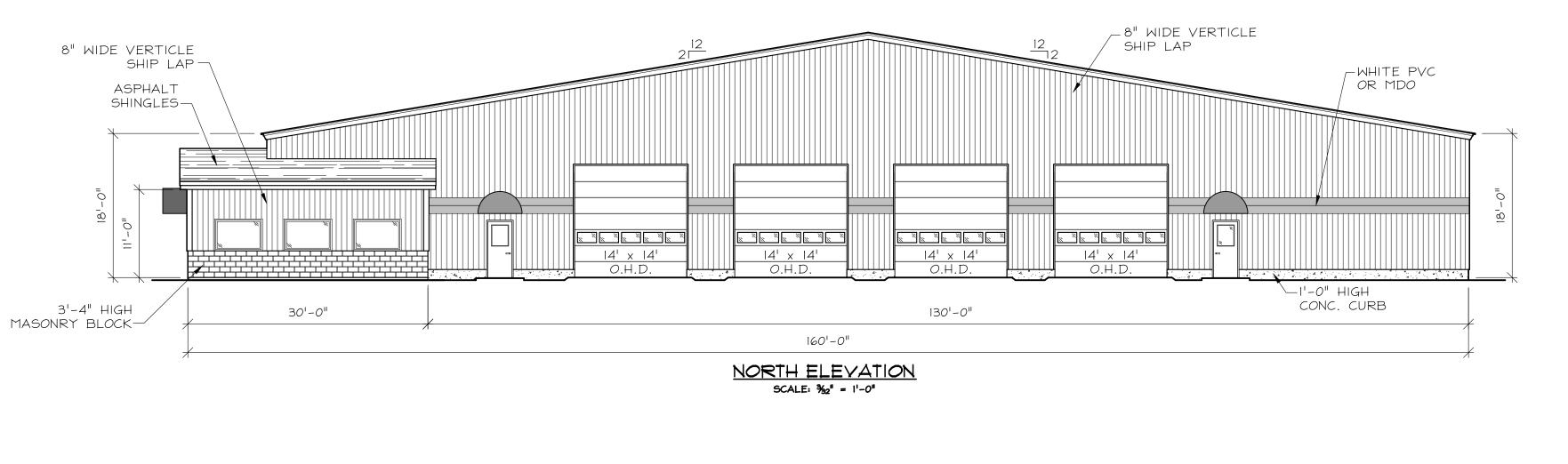
AS SHOWN

M.T.P.

HECKED BY:

Job number:

 $\triangle - 1$ 





"VEE RIB" METAL
WALL PANELS

WALL PANELS

14' x 14'

OH.D.

OH.D.

OH.D.

OH.D.

OH.D.

OH.D.

OH.D.

OH.D.

OOK., CURB

ELEVATION SCALE: 3/2" = 1'-0"

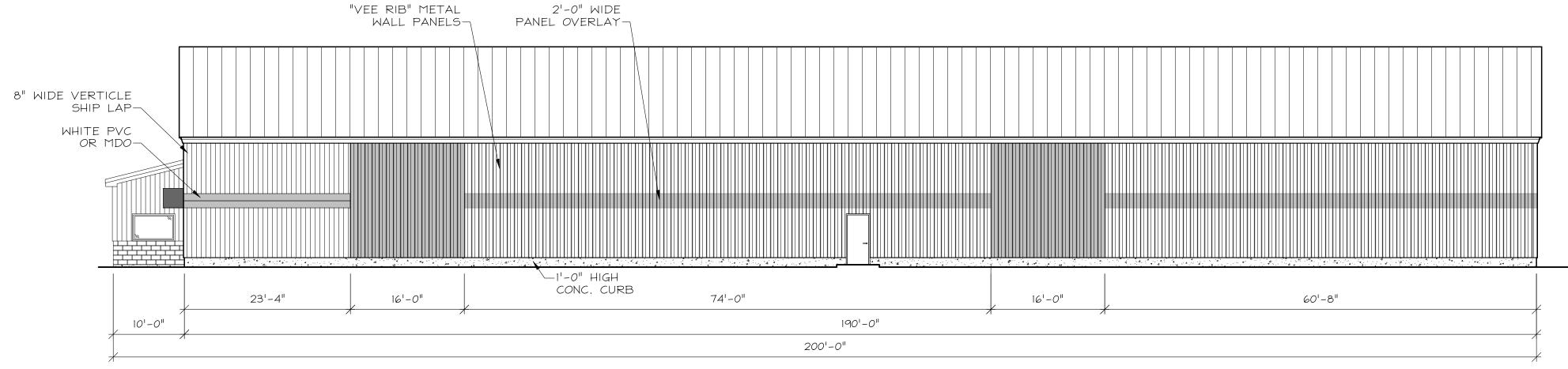
SOUTH ELEVATION

SCALE: 32" = 1'-0"

160'-0"

10'-0"

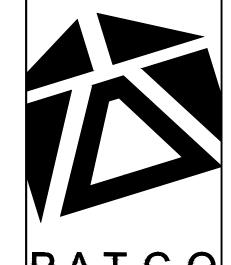
150'-0"



WEST "LOW SIDE"

ELEVATION

SCALE: %2" = 1'-0"



1293 MAIN STREET SANFORD, ME 04073 TEL: (207)324-5574

FAX: (207)324-1643

www.patco.com

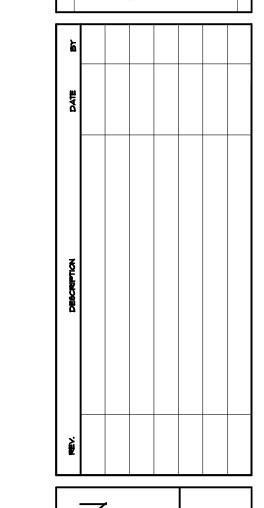
or www.patcocommercial.com

Copyright © 2023 Patco Construction, Inc.
All Rights Reserved.

John W. Einsiedler, R.A.

A r c h i t e c t u r e

148 Sea Road Kennebunk, Maine 04043
Phone 207•985•9760 Facsimile 207•985•9818
homepage: www,johnarchitect.com e-mail: je@phnarchitect.com
Architecture • Interior Design • Universal Design



100DY'S COLLISION
NARRAGANSETT STREET
GORHAM, MAINE

DEC. 20, 2023

CALE:

AS SHOWN

DRAWN BY: M.T.P.

JOB NUMBER:

.

A-2