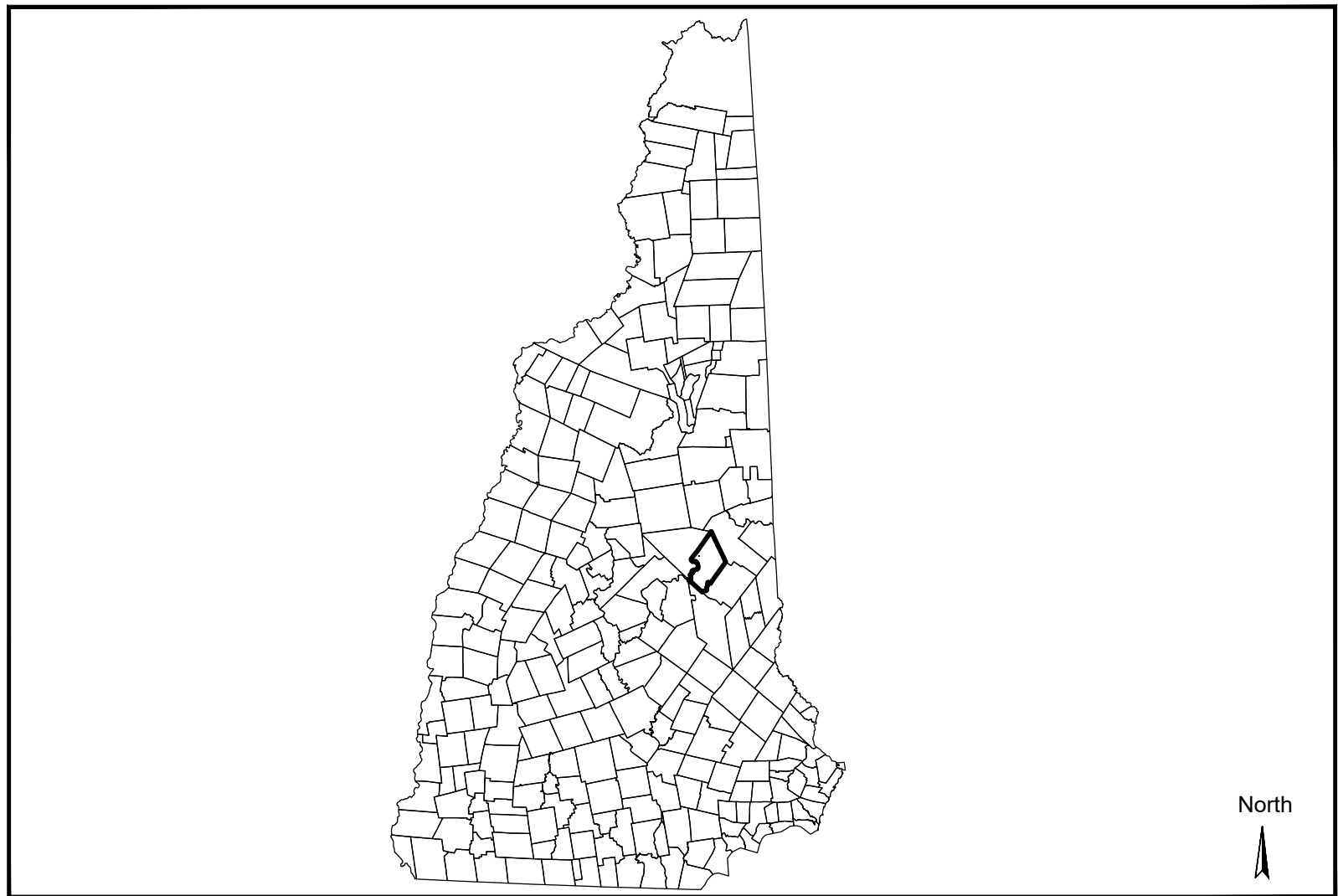
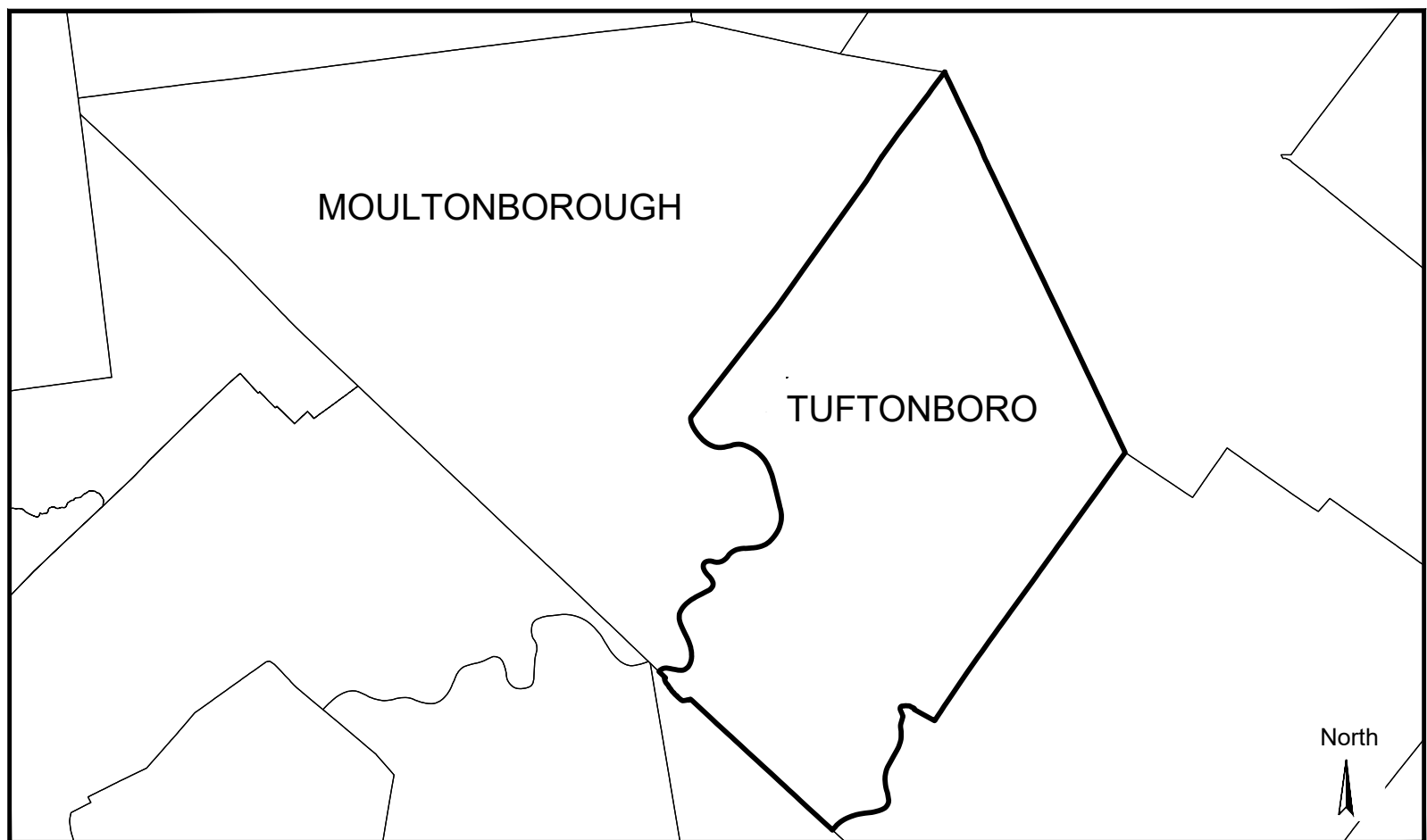


MOULTONBOROUGH BAY  
75% DESIGN SUBMISSION  
TUFTONBORO, NH  
AUGUST 2020



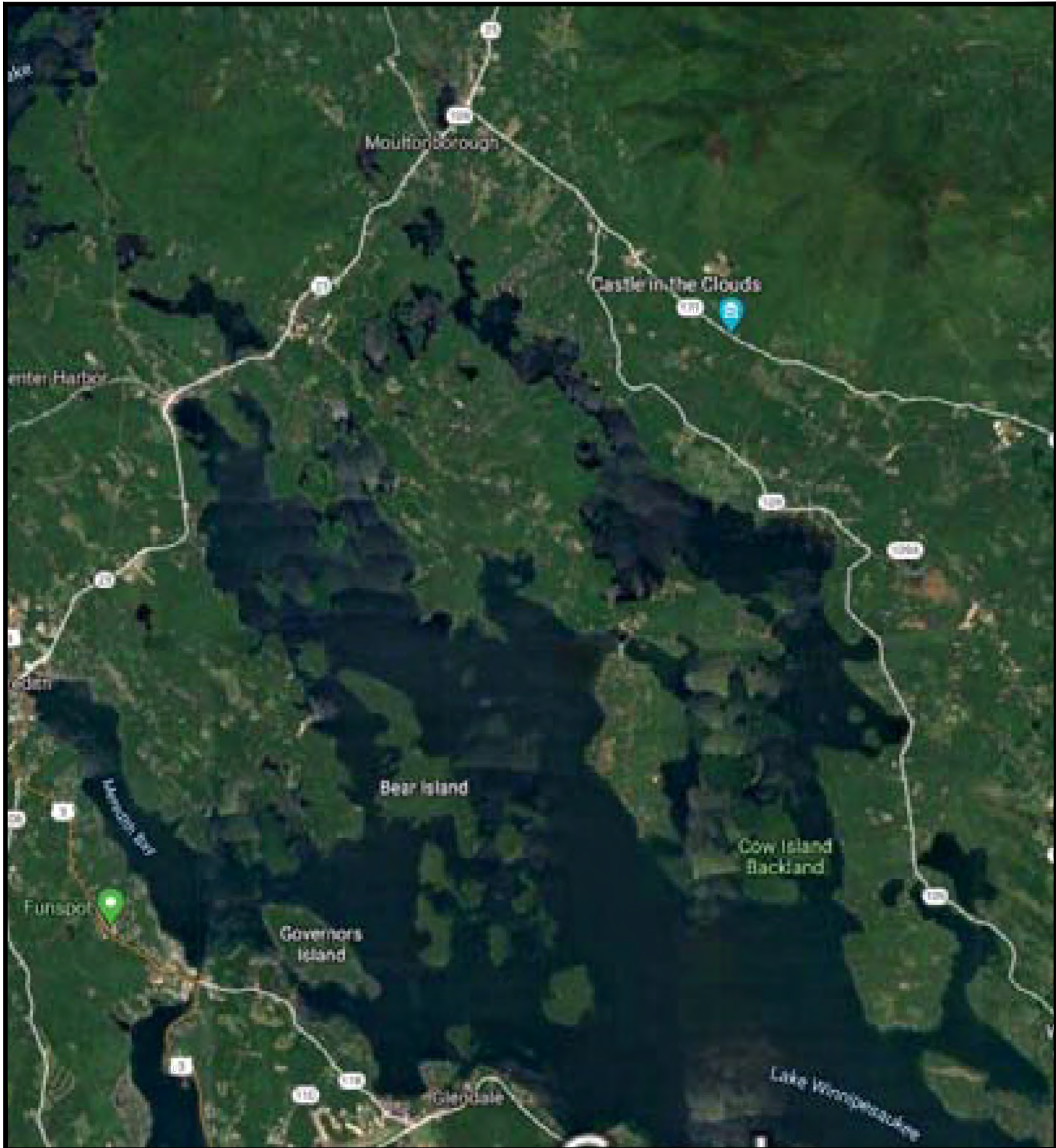
NEW HAMPSHIRE

Graphic Scale  
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SCALE IN FEET  
1:150000



TOWNS

Graphic Scale  
0 15000  
SCALE IN FEET  
1:15000



VICINITY MAP

Graphic Scale  
1-inch = 1000-feet

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- GENERAL NOTES:
- THIS PLAN SET IS FOR PERMITTING AND CONSTRUCTION. ACQUIRE THE NECESSARY PERMITS AND APPROVALS PRIOR TO BEGINNING THE WORK.
  - SURVEY WAS NOT CONDUCTED AND ALL EXISTING INFORMATION IS APPROXIMATE ONLY.

Plan Set:

MOULTONBOROUGH BAY  
75% DESIGN SUBMISSION  
TUFTONBORO, NH

Prepared For:

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Checked By:  
RAC

Registration:

Revisions

Rev	Date	By	Appr	Description

Project Number:  
19058

Sheet Number:  
1 of 15

Drawing Number:  
C - 1



GENERAL NOTES

- ALL ACCESS AND WORK MUST BE COORDINATED WITH THE TOWN OF TUFTONBORO.
- ALL SITE WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY FENCING BARRICADES, SAFETY LIGHTING, CONES, POLICE DETAIL AND/OR FLAGMEN AS DETERMINED NECESSARY BY THE TOWN. THE WORK WILL BE ACCOMPLISHED IN A MANNER AS NOT TO INTERFERE WITH DAILY OPERATIONS.
- STORAGE OF MATERIALS AND/OR EQUIPMENT NECESSARY TO COMPLETE THE WORK MUST BE LOCATED AND SECURED AS SHOWN IN THE DRAWINGS. ALL HAUL OR ACCESS ROUTES ARE TO BE KEPT CLEAN AND FREE OF MUD WITH PROPER DUST CONTROLS AS NECESSARY. STOCKPILE/LAYDOWN AREAS ARE TO BE AS SHOWN IN THE DRAWINGS UNLESS OTHERWISE APPROVED BY THE TOWN AND ENGINEER. VEHICLE REFUELING AND EQUIPMENT AND MUST OCCUR OFF-SITE.
- ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE AND ARE BASED ON A COMBINATION OF FIELD OBSERVATIONS TAKEN ON NOVEMBER 8, 2019 AND IMAGERY OBTAINED FROM GOOGLE EARTH. PRIOR TO THE START CONSTRUCTION VERIFY THAT THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS DO NOT CONFLICT WITH ANY KNOWN EXISTING OR OTHER PROPOSED IMPROVEMENTS. IF ANY CONFLICTS ARE DISCOVERED, NOTIFY THE ENGINEER PRIOR TO INSTALLING ANY PORTION OF THE SITE WORK WHICH WOULD BE AFFECTED.
- A TOPOGRAPHIC SURVEY WAS NOT CONDUCTED. EXISTING CONDITIONS TOPOGRAPHY IS SHOWN AT 2' INTERVALS GENERATED FROM LIDAR DATA. PRIOR TO BEGINNING WORK, CONFIRM ELEVATIONS AND VERTICAL DIFFERENCES AS INDICATED ON THE DRAWINGS BEGINNING AT THE LOW POINT AND PROGRESSING UPHILL. COORDINATE WITH THE ENGINEER AND/OR LANDSCAPE ARCHITECT IF ELEVATION DISCREPANCIES OCCUR.
- PROPOSED CONTOURS ARE SHOWN AT 1' INTERVALS AS REFERENCE.
- STAKEOUT THE LIMIT OF WORK, EROSION CONTROLS, TOP OF SLOPES, AND PROPERTY LINES PRIOR TO COMMENCING THE WORK.
- OBTAIN ALL PERMITS REQUIRED WHEN WORKING WITHIN THE PROTECTED SHORELAND AREA AND FOR SITE CLEARING AND DISPOSAL.
- MAINTAIN CONTINUOUS ACCESS THROUGHOUT THE IMPLEMENTATION PROCESS.
- ENSURE ALL EROSION CONTROL MEASURES ARE PROPERLY ESTABLISHED PRIOR TO COMMENCING THE WORK AND REMOVE EROSION MEASURES ONLY UPON ADEQUATE SURFACE STABILIZATION.
- REMOVE ALL EXCAVATED MATERIAL / CLEARED DEBRIS FROM THE SITE AND DISPOSE OF THE DEBRIS IN A PROPER AND LEGAL MANNER.
- ADJUST SITE FEATURES AS NEEDED TO MEET DRAINAGE DESIGN.
- THE CONTRACTOR MUST MAINTAIN ALL EXISTING UTILITIES IN WORKING ORDER AND FREE FROM DAMAGE DURING THE ENTIRE DURATION OF THE PROJECT. REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT NO COST TO THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ALL COST RELATED TO THE REPAIR OF UTILITIES.
- ALL SITE WORK TO COMPLETE THIS PROJECT AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- SITE LAYOUT SURVEY REQUIRED FOR CONSTRUCTION MUST BE PROVIDED BY THE CONTRACTOR AND PERFORMED BY A NEW HAMPSHIRE REGISTERED PROFESSIONAL LAND SURVEYOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE SURVEYOR FOR ALL SITE SURVEY WORK.
- UTILIZE ALL PRECAUTIONS AND MEASURES TO ENSURE THE SAFETY OF THE PUBLIC, ALL PERSONNEL AND PROPERTY DURING CONSTRUCTION IN ACCORDANCE WITH OSHA STANDARDS, INCLUDING THE INSTALLATION OF TEMPORARY FENCING BARRICADES, SAFETY LIGHTING, CONES, POLICE DETAIL AND/OR FLAGMEN AS DETERMINED NECESSARY BY THE TOWN OF TUFTONBORO. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF POLICE DETAIL AND FOR COORDINATING WITH THE LOCAL OR STATE POLICE DEPARTMENT FOR ALL REQUIRED POLICE DETAIL.
- MAKE ALL NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN ALL NECESSARY CONSTRUCTION PERMITS, PAY ALL FEES INCLUDING POLICE DETAILS AND POST ALL BONDS, IF NECESSARY, ASSOCIATED WITH THE SAME, AND COORDINATE WITH THE OWNER AND THE ENGINEER.
- IMPORT ONLY CLEAN MATERIAL. MATERIAL FROM AN EXISTING OR FORMERLY CONTAMINATED SITE AS DEFINED BY NEW HAMPSHIRE ENV-OR-600 WILL NOT BE ACCEPTED.
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS AND/OR IN THE SPECIFICATIONS, ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE MOST RECENT VERSION OF THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (THE NEW HAMPSHIRE DEPARTMENT OF TRANSPORTATION 2016 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE 2016 SUPPLEMENTAL SPECIFICATIONS, AND THE 2017 SPECIAL PROVISIONS).
- PROVIDE ALL CONSTRUCTION SERVICE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS REGARDING NOISE, VIBRATION, DUST, SEDIMENTATION CONTAINMENT, AND TRENCH WORK.
- RESTORE ALL SURFACES EQUAL TO THEIR ORIGINAL CONDITION AFTER CONSTRUCTION IS COMPLETE PER SPECIFICATIONS. LEAVE ALL AREAS NOT DISTURBED BY CONSTRUCTION IN THEIR NATURAL STATE. TAKE CARE TO PREVENT DAMAGE TO SHRUBS, TREES, OTHER LANDSCAPING AND/OR NATURAL FEATURES. WHEREAS THE PLANS DO NOT SHOW ALL LANDSCAPE FEATURES, EXISTING CONDITIONS MUST BE VERIFIED BY THE CONTRACTOR IN ADVANCE OF THE WORK.
- REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. PROMPTLY REMOVE ALL DEMOLITION DEBRIS FROM THE SITE TO AN APPROVED DUMP SITE.
- ALL TRUCKS LEAVING THE SITE MUST BE COVERED.
- BURIAL OF ANY STUMPS, SOLID DEBRIS, AND/OR STONES/BOULDERS ON-SITE IS PROHIBITED. DO NOT USE ROAD SALT OR OTHER DE-ICING CHEMICALS ON THE SITE.
- IMMEDIATELY CONTACT AND COORDINATE WITH THE ENGINEER AND OWNER IF ANY DEVIATION OR ALTERATION OF THE WORK PROPOSED ON THESE DRAWINGS IS REQUIRED.
- AT THE END OF CONSTRUCTION, REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE, PERFORM A THOROUGH INSPECTION OF THE WORK PERIMETER, COLLECT AND REMOVE ALL MATERIALS AND BLOWN OR WATER CARRIED DEBRIS FROM THE SITE.

BASIC CONSTRUCTION SEQUENCES

THE FOLLOWING CONSTRUCTION SEQUENCES ARE TO BE USED AS GENERAL GUIDELINES. COORDINATE WITH THE OWNER, ENGINEERS, AND LANDSCAPE ARCHITECTS AND SUBMIT A PROPOSED CONSTRUCTION SEQUENCE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. WORK WILL ONLY BEGIN AFTER A CONSTRUCTION SCHEDULE HAS BEEN ACCEPTED.

SITE 1-01A

- SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE, LIMIT OF SEDIMENTATION BARRIERS, TOP OF SLOPE, INSTALL TEMPORARY CONSTRUCTION FENCING, TEMPORARY CONSTRUCTION ENTRANCE(S)/EXIT(S) AND ESTABLISH TREE PROTECTION ZONES AS INDICATED ON DRAWINGS.
- PLACE SEDIMENTATION BARRIERS (SILT SOCK, ETC.) AND INLET PROTECTION AS INDICATED ON THE DRAWINGS AND STAKED OUT IN THE FIELD. UNDER NO CIRCUMSTANCES IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE AS INDICATED ON DRAWINGS.
- BEGIN CLEARING AND DEMOLISHING THE SITE AS REQUIRED.
- EXISTING SUBSTRATE WITHIN THE STORMWATER AREA IS TO BE PROTECTED TO THE GREATEST EXTENT POSSIBLE. MINIMIZE HEAVY EQUIPMENT AND SOIL COMPACTION WITHIN ALL STORMWATER AREAS.
- INSTALL SUBSURFACE DRAINAGE INFRASTRUCTURE.
- ROUGH GRADE THE PROPOSED PARKING AREA AND STORMWATER BASINS AND CREATE TEMPORARY STORMWATER SETTLING BASINS AS NECESSARY TO CONTROL SITE RUNOFF AND SEDIMENT EXPORT. SMOOTH OUT ANY LOW AREAS OR TIRE RUTS AND INSTALL TEMPORARY SEDIMENT BARRIERS AT THE TOP OF SLOPE AROUND EACH STORMWATER SETTLING AREA TO PREVENT SEDIMENT AND SILT FROM CLOGGING THE BOTTOM.
- INSTALL SEDIMENT FOREBAYS AS INDICATED ON THE DRAWINGS.
- INSTALL GRAVEL WITHIN PARKING AREA AND COMPACT AS INDICATED ON THE DRAWINGS.
- IMMEDIATELY REPAIR, REPLACE AND STABILIZE ANY EROSION CONTROL DEVICES DISTURBED THROUGHOUT THE WORK. MODIFY TEMPORARY CONVEYANCE DEVICES, AS NECESSARY, TO CONVEY RUNOFF TO SETTLING AREAS.
- COORDINATE LANDSCAPING FOR ALL DISTURBED AREAS TO BE PLANTED OR SEEDED.
- COMPLETE ALL REMAINING PLANTING AND SEEDING.
- COORDINATE A FINAL WALK-THRU TO DETERMINE OUTSTANDING ACTION ITEMS FOR A "PUNCH-LIST" REPORT.
- ENGINEER TO APPROVE THE REMOVAL OF ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS AND DETERMINE WHEN THE CONTRIBUTING AREA HAS REACHED A MINIMUM OF 80% STABILIZATION.

BASIC CONSTRUCTION SEQUENCES (CONT.)

SITE 1-01B

- SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE, LIMIT OF SEDIMENTATION BARRIERS, TOP OF SLOPE, INSTALL TEMPORARY CONSTRUCTION FENCING, TEMPORARY CONSTRUCTION ENTRANCE(S)/EXIT(S) AND ESTABLISH TREE PROTECTION ZONES AS INDICATED ON DRAWINGS.
- PLACE SEDIMENTATION BARRIERS (SILT SOCK, ETC.) AND INLET PROTECTION AS INDICATED ON THE DRAWINGS AND STAKED OUT IN THE FIELD. UNDER NO CIRCUMSTANCES IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE AS INDICATED ON DRAWINGS.
- BEGIN CLEARING AND DEMOLISHING THE SITE AS REQUIRED.
- EXISTING SUBSTRATE WITHIN THE STORMWATER AREA IS TO BE PROTECTED TO THE GREATEST EXTENT POSSIBLE. MINIMIZE HEAVY EQUIPMENT AND SOIL COMPACTION WITHIN ALL STORMWATER AREAS.
- INSTALL SUBSURFACE DRAINAGE INFRASTRUCTURE.
- ROUGH GRADE THE STORMWATER BASINS AND CREATE TEMPORARY STORMWATER SETTLING BASINS AS NECESSARY TO CONTROL SITE RUNOFF AND SEDIMENT EXPORTS. SMOOTH OUT ANY LOW AREAS OR TIRE RUTS AND INSTALL TEMPORARY SEDIMENT BARRIERS AT THE TOP OF SLOPE AROUND EACH STORMWATER SETTLING AREA TO PREVENT SEDIMENT AND SILT FROM CLOGGING THE BOTTOM.
- INSTALL SEDIMENT FOREBAYS AS INDICATED ON THE DRAWINGS.
- IMMEDIATELY REPAIR, REPLACE AND STABILIZE ANY EROSION CONTROL DEVICES DISTURBED THROUGHOUT THE WORK. MODIFY TEMPORARY CONVEYANCE DEVICES, AS NECESSARY, TO CONVEY RUNOFF TO SETTLING AREAS.
- COORDINATE LANDSCAPING FOR ALL DISTURBED AREAS TO BE PLANTED OR SEEDED.
- COMPLETE ALL REMAINING PLANTING AND SEEDING.
- COORDINATE A FINAL WALK-THRU TO DETERMINE OUTSTANDING ACTION ITEMS FOR A "PUNCH-LIST" REPORT.
- ENGINEER TO APPROVE THE REMOVAL OF ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS AND DETERMINE WHEN THE CONTRIBUTING AREA HAS REACHED A MINIMUM OF 80% STABILIZATION.

SITE 4-07

- SURVEY AND STAKE THE PROPOSED LIMIT OF DISTURBANCE, LIMIT OF SEDIMENTATION BARRIERS, AND FIELD VERIFY THE LOCATION OF THE CULVERT AND THE EXTENT OF THE STREAM.
- PLACE SEDIMENTATION BARRIERS (SILT SOCK, ETC.) AS INDICATED ON THE DRAWINGS AND STAKED OUT IN THE FIELD. UNDER NO CIRCUMSTANCES IS THE LIMIT OF WORK TO EXTEND BEYOND THE SEDIMENTATION BARRIERS/LIMIT OF DISTURBANCE AS INDICATED ON DRAWINGS.
- BEGIN CLEARING AND DEMOLISHING THE SITE AS REQUIRED.
- EXISTING SUBSTRATE WITHIN THE STORMWATER AREA IS TO BE PROTECTED TO THE GREATEST EXTENT POSSIBLE. MINIMIZE HEAVY EQUIPMENT AND SOIL COMPACTION WITHIN ALL STORMWATER AREAS.
- ROUGH GRADE THE PROPOSED STORMWATER BASINS AND CREATE TEMPORARY STORMWATER SETTLING BASINS AS NECESSARY TO CONTROL SITE RUNOFF AND SEDIMENT EXPORTS. SMOOTH OUT ANY LOW AREAS OR TIRE RUTS AND INSTALL TEMPORARY SEDIMENT BARRIERS AT THE TOP OF SLOPE AROUND EACH STORMWATER SETTLING AREA TO PREVENT SEDIMENT AND SILT FROM CLOGGING THE BOTTOM.
- INSTALL SEDIMENT FOREBAYS AS INDICATED ON THE DRAWINGS.
- IMMEDIATELY REPAIR, REPLACE AND STABILIZE ANY EROSION CONTROL DEVICES DISTURBED THROUGHOUT THE WORK. MODIFY TEMPORARY CONVEYANCE DEVICES, AS NECESSARY, TO CONVEY RUNOFF TO SETTLING AREAS.
- COORDINATE LANDSCAPING FOR ALL DISTURBED AREAS TO BE PLANTED OR SEEDED.
- COMPLETE ALL REMAINING PLANTING AND SEEDING.
- COORDINATE A FINAL WALK-THRU TO DETERMINE OUTSTANDING ACTION ITEMS FOR A "PUNCH-LIST" REPORT.
- ENGINEER TO APPROVE THE REMOVAL OF ALL TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES FOLLOWING VEGETATIVE ESTABLISHMENT OF ALL DISTURBED AREAS AND DETERMINE WHEN THE CONTRIBUTING AREA HAS REACHED A MINIMUM OF 80% STABILIZATION.

EROSION & SEDIMENT CONTROL NOTES

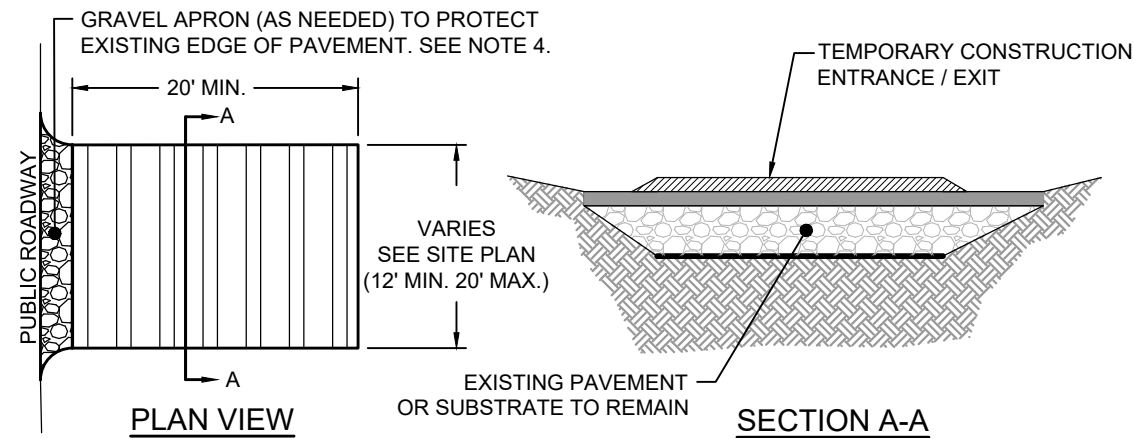
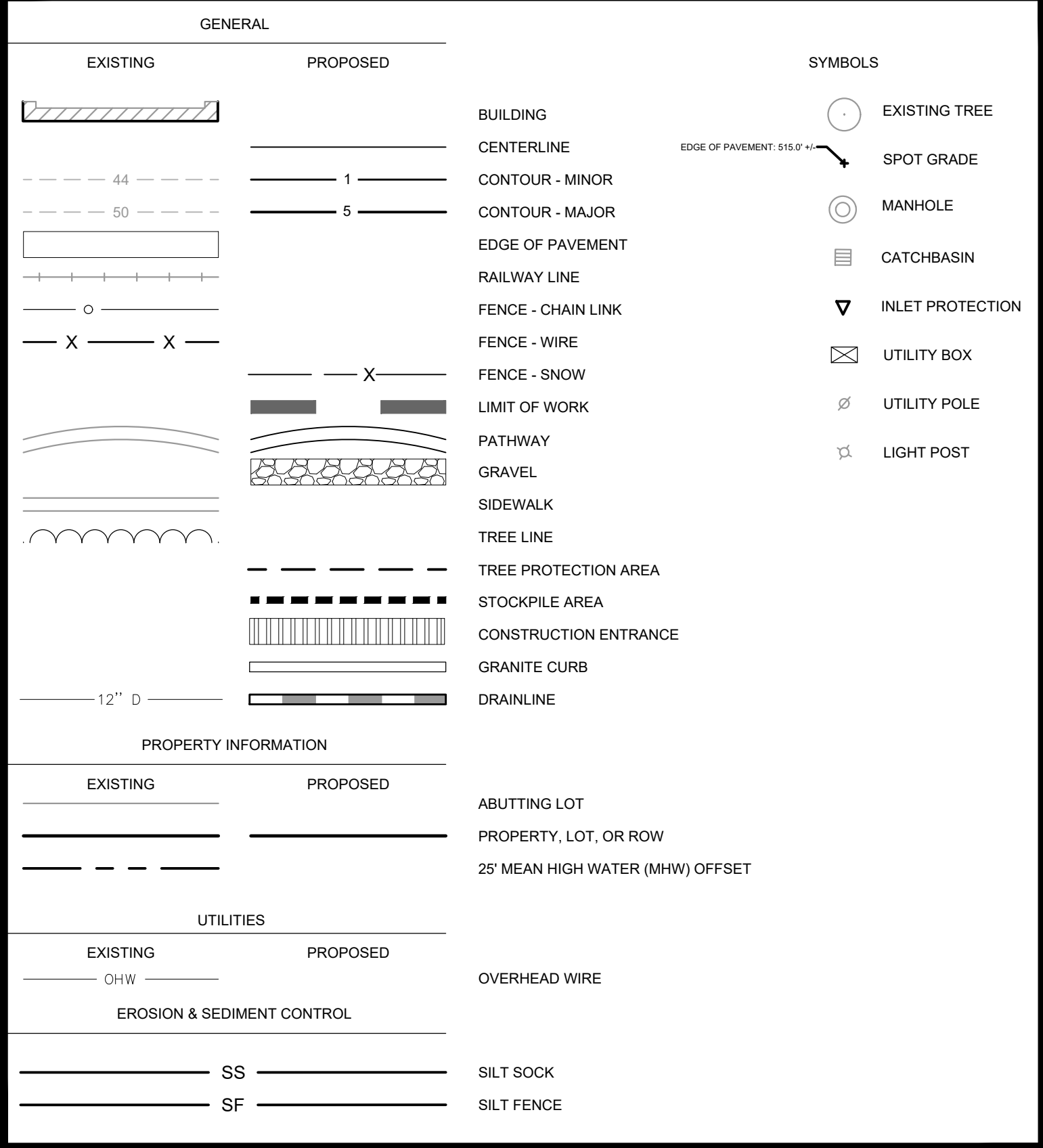
- DESIGNATE THE SITE CONSTRUCTION FOREMAN AS THE ON-SITE PERSONNEL RESPONSIBLE FOR THE DAILY INSPECTION AND MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS AND IMPLEMENTATION OF ALL NECESSARY MEASURES TO CONTROL EROSION AND PREVENT SEDIMENT FROM LEAVING THE SITE.
- INSTALL TEMPORARY CONSTRUCTION ENTRANCES IN LOCATIONS INDICATED ON DRAWINGS. NO OTHER ENTRANCES ARE TO BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION OR DELIVERY VEHICLES.
- INSTALL ALL EROSION AND SEDIMENT CONTROL (ESC) MEASURES AS INDICATED ON DRAWINGS IN CONSULTATION WITH THE CLIENT REPRESENTATIVES BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN. INSPECT, MAINTAIN REPAIR AND REPLACE EROSION CONTROL MEASURES, AS NECESSARY, DURING THE ENTIRE CONSTRUCTION PERIOD OF THE PROJECT. THE SITE PERIMETER EROSION CONTROLS ARE THE DESIGNATED LIMIT OF WORK. INFORM ALL PERSONNEL WORKING ON THE PROJECT SITE THAT NO CONSTRUCTION ACTIVITY IS TO OCCUR BEYOND THE LIMIT OF WORK AT ANY TIME THROUGHOUT THE CONSTRUCTION PERIOD.
- MAINTAIN A MINIMUM SURPLUS OF 25 FEET OF EROSION CONTROL BARRIER (SILT FENCE, STRAWBALE, &/OR SILT SOCK) ONSITE AT ALL TIMES.
- PROVIDE CONSTRUCTION EXITS AS INDICATED ON DRAWINGS TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. CLEAN AND/OR REPLACE THE CRUSHED STONE PAD, AS NECESSARY, TO MAINTAIN ITS EFFECTIVENESS.
- KEEP THE LIMIT OF CLEARING, GRADING AND DISTURBANCES TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. PHASE THE SITE WORK IN A MANNER TO MINIMIZE AREAS OF EXPOSED SOIL. IF TREES ARE TO BE CUT ON THE ENTIRE SITE, CLEAR AND GRUB ONLY THOSE AREAS WHICH ARE ACTIVELY UNDER CONSTRUCTION. PROPERLY INSTALL THE SEDIMENTATION CONTROLS PRIOR TO BEGINNING ANY LAND CLEARING ACTIVITY AND/OR OTHER CONSTRUCTION RELATED WORK.
- MONITOR LOCAL WEATHER REPORTS DURING CONSTRUCTION AND PRIOR TO SCHEDULING EARTH-MOVING OR OTHER CONSTRUCTION ACTIVITIES WHICH LEAVE LARGE DISTURBED AREAS UNSTABILIZED. IF INCLEMENT WEATHER IS PREDICTED, USE BEST PROFESSIONAL JUDGEMENT AND GOOD CONSTRUCTION PRACTICES WHEN SCHEDULING CONSTRUCTION ACTIVITIES AND ENSURE THE NECESSARY EROSION CONTROL DEVICES ARE INSTALLED AND FUNCTIONING PROPERLY TO MINIMIZE EROSION FROM ANY IMPENDING WEATHER EVENTS.
- INSPECT EROSION AND SEDIMENT CONTROL DEVICES AND STABILIZED SLOPES ON A WEEKLY BASIS AND AFTER EACH RAINFALL EVENT OF 0.5 INCHES OR GREATER. REPAIR IDENTIFIED PROBLEMS WITHIN 24 HOURS TO ENSURE EROSION AND SEDIMENT CONTROLS ARE IN GOOD WORKING ORDER. RESET OR REPLACE MATERIALS AS REQUIRED.
- SURROUND THE PERIMETER OF SOIL STOCKPILES WITH SILT SOCK, SILT FENCE, STRAWBALES, OR A COMBINATION OF SILT FENCE WITH STRAWBALE, AS DETERMINED NECESSARY.
- DISTURBED AREAS AND SLOPES MUST NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. PROVIDE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED. REINFORCE TEMPORARY AREAS HAVING A SLOPE GREATER THAN 4:1 WITH EROSION BLANKETS OR APPROVED EQUAL UNTIL THE SITE IS PROPERLY STABILIZED. TEMPORARY SWALES MAY ALSO BE REQUIRED IF DETERMINED NECESSARY IN THE FIELD BY THE ENGINEER.
- INSTALL A SILT SACK OR APPROVED EQUIVALENT IN EACH EXISTING CATCHBASIN RECEIVING RUNOFF FROM THE SITE. UPON THE INSTALLATION OF EACH CATCH BASIN, INSTALL A SILT SACK OR APPROVED EQUIVALENT. INSPECT SILT SACKS, AFTER EACH SIGNIFICANT STORM EVENT AND REMOVE AND EMPTY AS NEEDED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
- SMALL SEDIMENTATION BASINS MAY BE CONSTRUCTED ON AN AS-NEEDED BASIS DURING CONSTRUCTION TO AID IN THE CAPTURE OF SITE RUNOFF AND SEDIMENT. IT WILL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR, IN CONSULTATION WITH THE ENGINEER, TO SIZE AND CREATE THESE BASINS IN APPROPRIATE LOCATIONS.
- CONTAIN ALL SEDIMENT ONSITE. SWEEP ALL EXITS FROM THE SITE AS NECESSARY INCLUDING ANY SEDIMENT TRACKING. SWEEP PAVED AREAS AS NEEDED TO REMOVE SEDIMENT AND POTENTIAL POLLUTANTS ACCUMULATED DURING SITE CONSTRUCTION.
- REMOVE ACCUMULATED SEDIMENT FROM ALL TEMPORARY PRACTICES AND DISPOSE OF IN A PRE-APPROVED LOCATION.
- PROVIDE ON SITE OR MAKE READILY AVAILABLE THE NECESSARY EQUIPMENT AND SITE PERSONNEL DURING CONSTRUCTION HOURS FOR THE DURATION OF THE PROJECT TO ENSURE ALL EROSION AND SEDIMENTATION CONTROL DEVICES ARE PROPERLY MAINTAINED AND REPAIRED IN A TIMELY AND RESPONSIBLE MANNER. IF SITE WORK IS SUSPENDED DURING THE WINTER MONTHS THE CONTRACTOR MUST CONTINUE TO PROVIDE PERSONNEL AND EQUIPMENT EITHER ON SITE OR READILY AVAILABLE TO PROPERLY MAINTAIN AND REPAIR ALL EROSION AND SEDIMENTATION CONTROL DEVICES IN A TIMELY AND RESPONSIBLE MANNER.
- CONTROL DUST BY WATERING OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE ENGINEER.

GENERAL SITE CLEARING NOTES

THIS PLAN SET DOES NOT INCLUDE DETAILS & SPECIFICATIONS FOR ALL DEMOLITION WORK REQUIRED WITHIN THE PROPOSED CONSTRUCTION LIMITS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER, PROJECT ENGINEERS, AND ALL REPRESENTATIVES INVOLVED WITH THE PROPOSED IMPROVEMENTS TO DEVELOP A SUITABLE DEMOLITION PLAN, WHICH WILL ALLOW THE FACILITIES TO REMAIN IN OPERATION DURING THE ENTIRETY OF CONSTRUCTION.

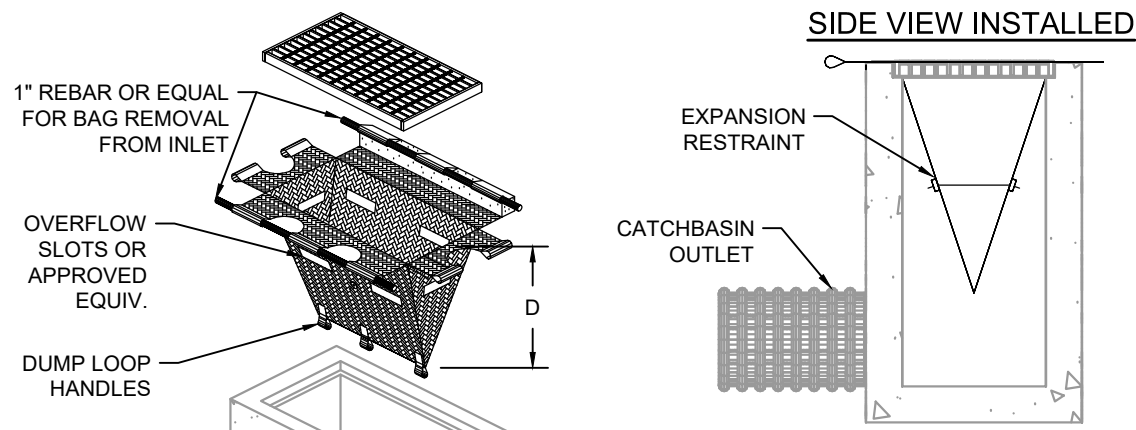
- PRIOR TO CLEARING THE SITE, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- UNLESS OTHERWISE NOTED, THE CONTRACTOR IS RESPONSIBLE FOR THE RELOCATION, DEMOLITION, REMOVAL AND DISPOSAL, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL EXISTING SITE ELEMENTS SHOWN AND NOT SHOWN WITHIN THE CONSTRUCTION LIMITS, AND WHERE NEEDED.
- ALL EXISTING TREES CUT AS A RESULT OF THE WORK ARE TO BE RE-USED ON-SITE. DO NOT EXPORT TIMBERS. COORDINATE WITH THE LANDSCAPE ARCHITECT IF THERE IS EXCESS MATERIAL.
- REMOVE ALL CLEARING DEBRIS FROM THE SITE AND DISPOSE OF THE DEBRIS IN A PROPER AND LEGAL MANNER.
- OBTAIN ALL PERMITS REQUIRED FOR CLEARING AND DISPOSAL.
- MAINTAIN CONTINUOUS ACCESS AND OPERATION FOR SURROUNDING FACILITIES AT ALL TIMES DURING CONSTRUCTION.

LEGEND



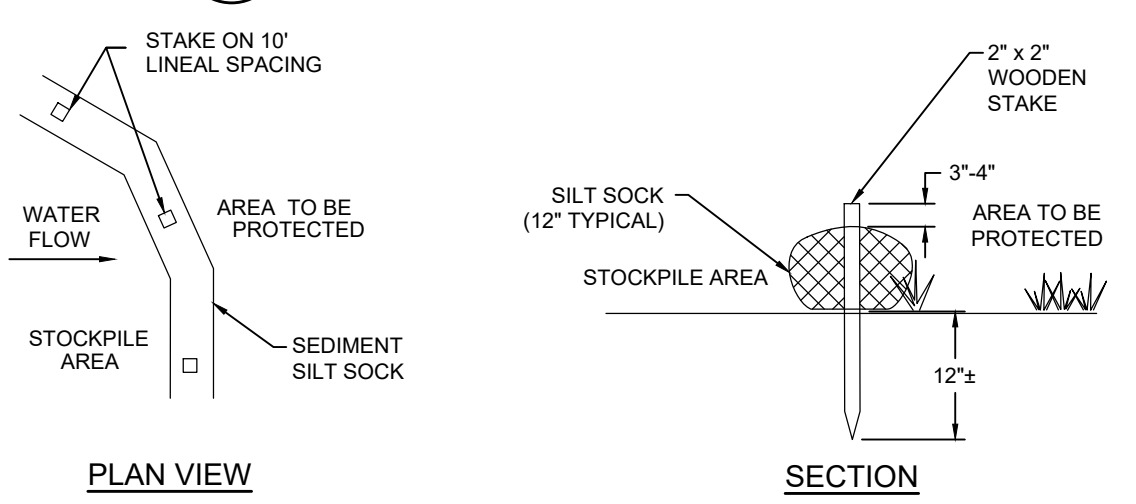
- NOTES:
- SHAKER RACK IS TO BE USED ON EXISTING PAVEMENT. SHAKER RACK TO BE METAL OR RECYCLED PLASTIC MANUFACTURERS/PRODUCTS OR APPROVED EQUIVALENT:  
PRESTO GEOSYSTEMS; GEOTERRA  
FODS MAT; FONTERRA
  - CONSTRUCTION ENTRANCE(S) TO REMAIN UNTIL FINISHED GRADES ARE REACHED AND ALL VULNERABLE SLOPES ARE PROTECTED/STABILIZED.
  - SEE SITE PLANS FOR LOCATIONS.
  - UPON SUBSTANTIAL COMPLETION, ALL GRAVEL USED IS TO BE REMOVED AND PROPERLY DISPOSED OF OR RE-USED OFF-SITE. SWEEP ALL PAVED AREAS WITH SEDIMENT AS A RESULT OF CONSTRUCTION.

3 CONSTRUCTION ENTRANCE/EXIT NOT TO SCALE



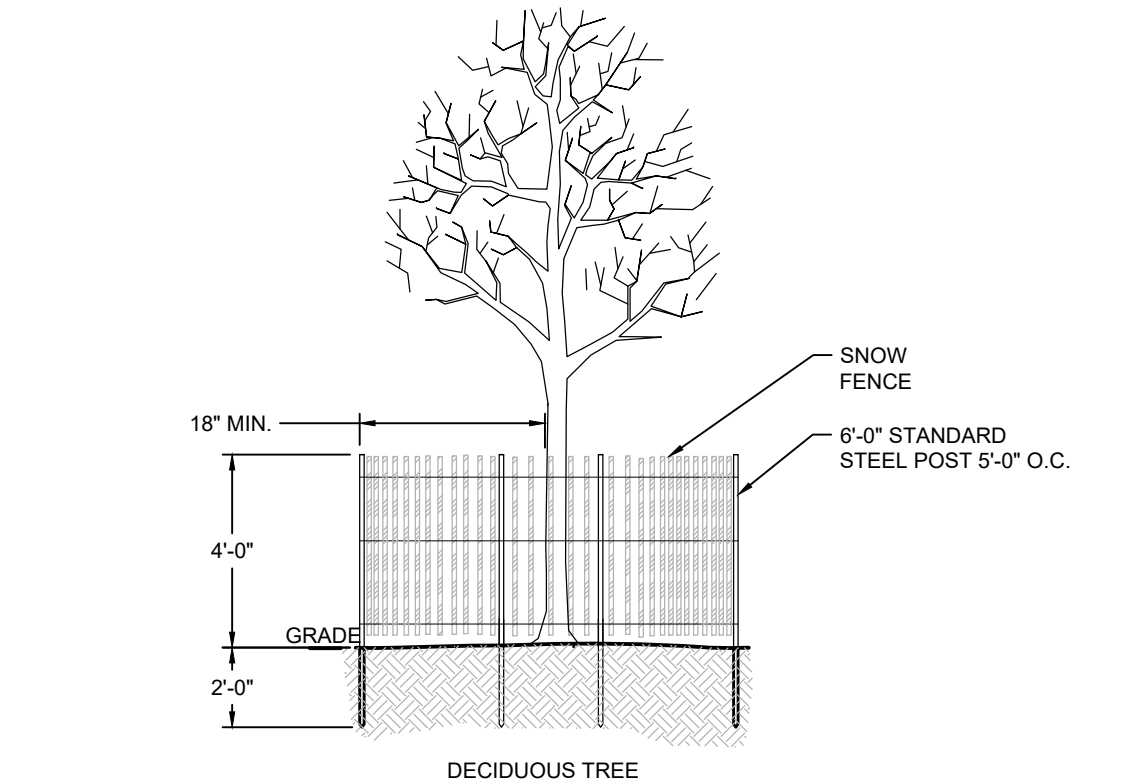
- NOTES:
- SEDIMENT CONTROL INSERTS TO BE INSTALLED OVER ALL CATCHBASIN INLETS THAT WILL RECEIVE RUNOFF FROM THE PROJECT SITE.
  - TEMPORARY INLET PROTECTION TO BE REMOVED AFTER CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.
  - DEPTH (D) TO BE A MINIMUM OF 16-INCHES.
  - MANUFACTURER TO BE SILT SACK OR APPROVED EQUIVALENT.

1 INLET PROTECTION TYP. NOT TO SCALE



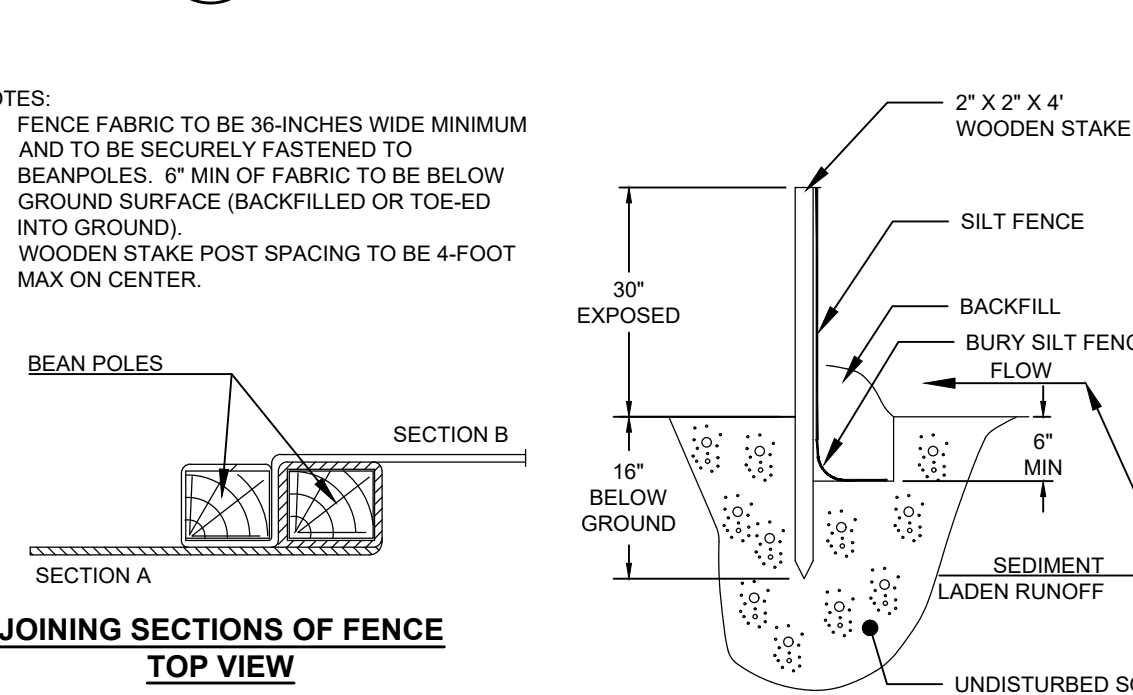
- NOTES:
- SILT SOCK MANUFACTURER TO BE SILT SOCK OR ENGINEER APPROVED EQUAL.
  - ALL MATERIAL TO MEET MANUFACTURER'S SPECIFICATIONS.
  - SEDIMENT SILT SOCK TO BE FILLED WITH LEAF COMPOST AND/OR WOODY MULCH PER MANUFACTURER'S REQUIREMENTS.
  - FOLLOWING CONSTRUCTION AND SITE STABILIZATION, COMPOST MATERIAL TO BE REMOVED OR DISPERSED ON SITE, AS APPROVED BY THE ENGINEER.

2 SILT SOCK TYP. NOT TO SCALE



- NOTES:
- FENCING SHALL BE ORANGE RESINET SM60 BARRIER FENCE "SNOW FENCE" OR APPROVED EQUIVALENT.
  - POST SHALL BE HOT ROLLED RAIL STEEL AND FORMED INTO A "T". DIMENSIONS OF "T" POST SECTION, APPROXIMATELY 1 7/16\"/>
  - THE FENCING SHALL REMAIN IN PLACE UNTIL ALL EXCAVATION HAS BEEN COMPLETED AND THE SURFACE HAS BEEN RE-ESTABLISHED.
  - PROTECT GROUPS OF TREES WHERE APPLICABLE.

4 TREE PROTECTION TYP. NOT TO SCALE



JOINING SECTIONS OF FENCE TOP VIEW

5 SILT FENCE TYP. NOT TO SCALE

Revisions		Checked By:		Designed By:		Drawn By:		Date:	
Rev	Description	By	Date	By	Date	By	Date	By	Date
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**Horsley Witten Group, Inc.**  
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508-833-6600 voice  
508-833-3150 fax

Prepared For:

Lake Winnepesaukee Association  
P.O. Box 1824  
Merrifield, NH 03253  
Phone: (603) 581-6632  
Fax: ---

Survey Provided By:

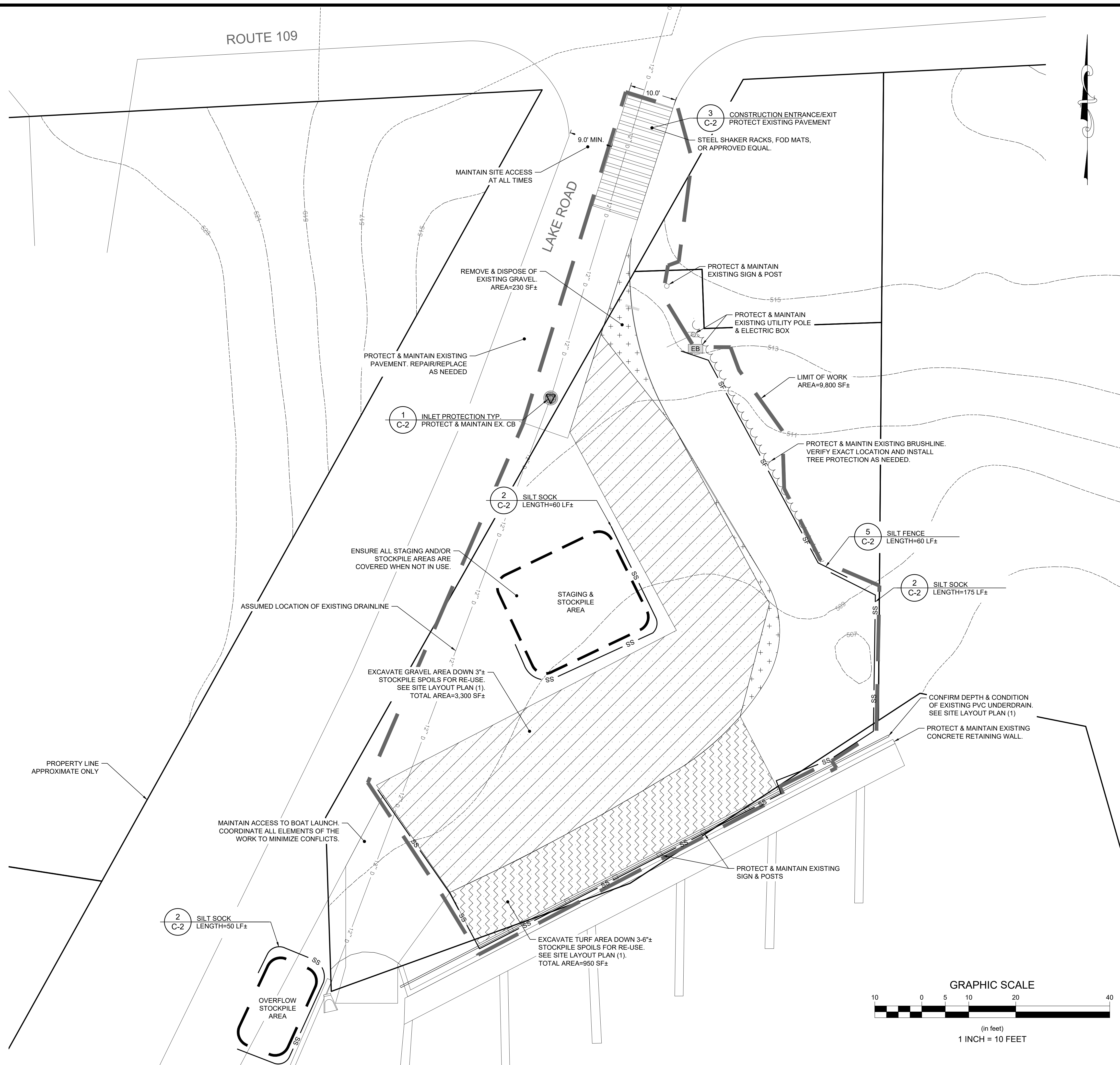
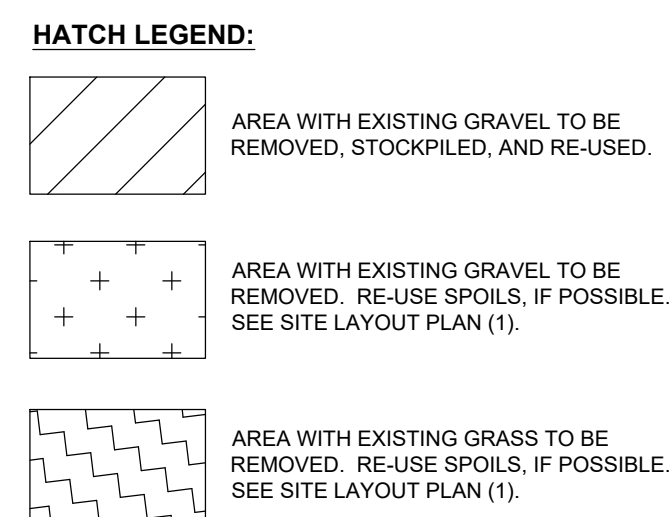
ANY CONSTRUCTION, DEMOLITION, OR SITE STABILIZATION WORK SHALL BE BASED UPON DATA FROM THE FOLLOWING SOURCES:  
FIELD OBSERVATIONS  
FIELD SKETCHES & GOOGLE EARTH  
PROPERTY LINES  
APPROXIMATE ONLY BASED UPON THE LATEST STATE GIS DATA  
TOPOGRAPHY AND CONDITIONS  
DATE: AUGUST 2020

Registration:

Project Number: 19058  
Sheet: 2 of 15  
Sheet Number: C - 2

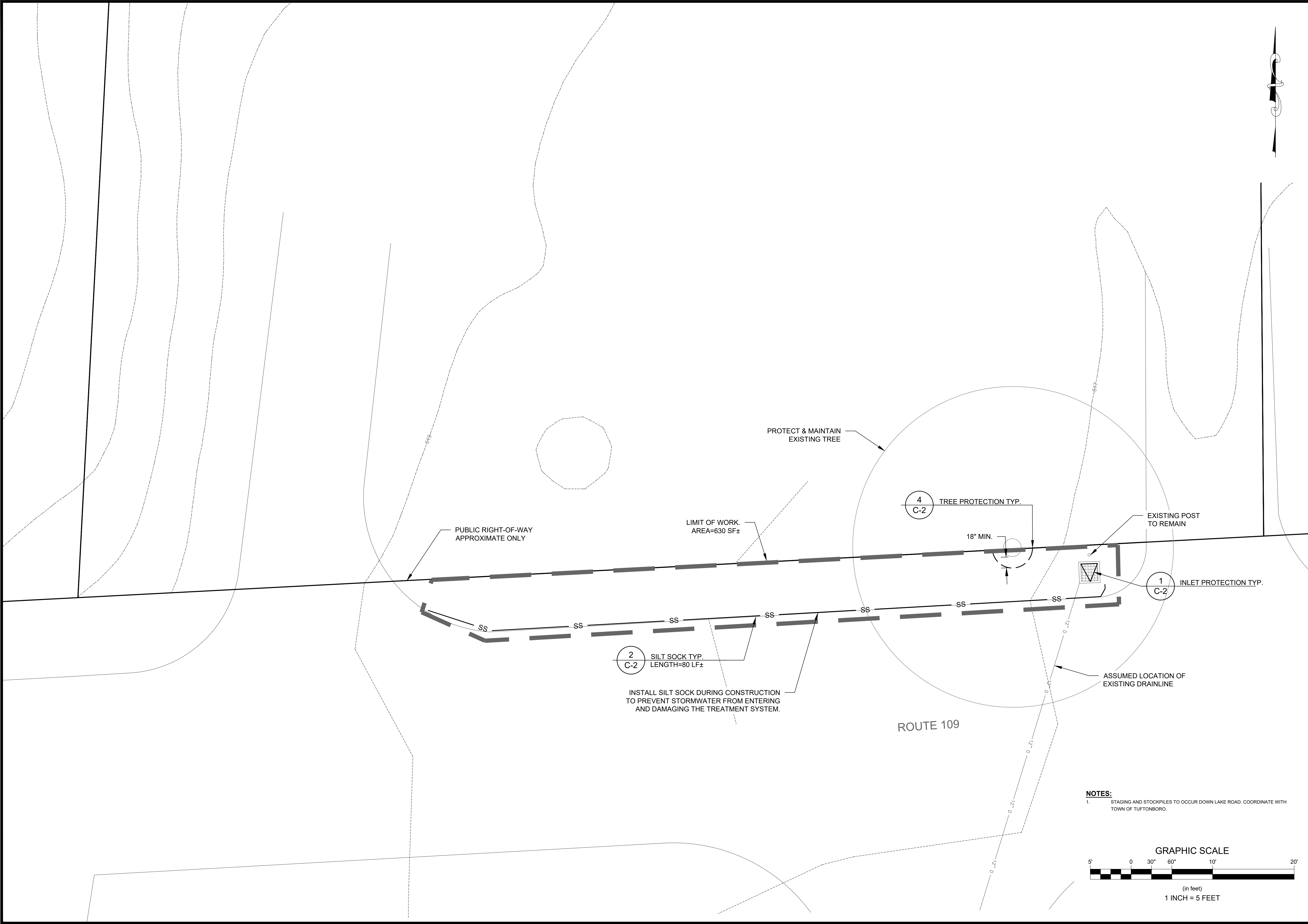
MOULTONBOROUGH BAY  
75% DESIGN SUBMISSION  
TUFTONBORO, NH

CONSTRUCTION NOTES




Survey Provided By: FIELD SERVICES WAS NOT CONDUCTED. ALL SITE FEATURES BASED ON AERIAL PHOTOGRAPHY, AERIAL PHOTOGRAPHY BASED ON DATA FROM THE FOLLOWING SOURCES: BASE MAP, LINEWORK & FIELD NOTES, AERIAL PHOTOGRAPHY FIELD OBSERVATIONS, UTILITY SITES, & GOOGLE EARTH PROPERTY LINES: APPROXIMATE ONLY BASED UPON THE LATEST STATE GIS DATA APPROXIMATE AT 2' INTERVALS BASED UPON THE LATEST STATE GIS DATA. TOPOGRAPHY AND CONTOURS: LIDAR DATA AT 2' INTERVALS BASED UPON THE LATEST STATE GIS DATA.		Prepared For: <b>Lake Winnepesaukee Association</b> P.O. Box 1024 Meredith, NH 03253 Phone: (603) 561-4632 Fax: ---		Plan Set:  <b>MOULTONBOROUGH BAY 75% DESIGN SUBMISSION TUFTONBORO, NH</b>		Plan Title:  <b>DEMOLITION &amp; EROSION CONTROL - 1-01A</b>			
Registration:		Project Number:  19058		Sheet:  3 of 15		Sheet Number:  C - 3			
Registration:				Prepared For: <b>Lake Winnepesaukee Association</b> P.O. Box 1024 Meredith, NH 03253 Phone: (603) 561-4632 Fax: ---		Plan Set:  <b>MOULTONBOROUGH BAY 75% DESIGN SUBMISSION TUFTONBORO, NH</b>		Plan Title:  <b>DEMOLITION &amp; EROSION CONTROL - 1-01A</b>	
Registration:				Project Number:  19058		Sheet:  3 of 15		Sheet Number:  C - 3	
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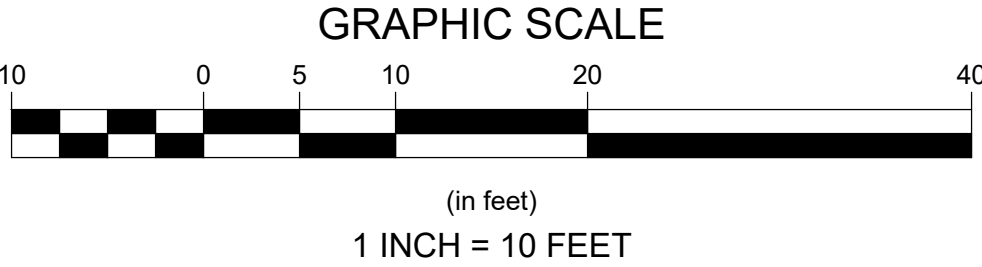
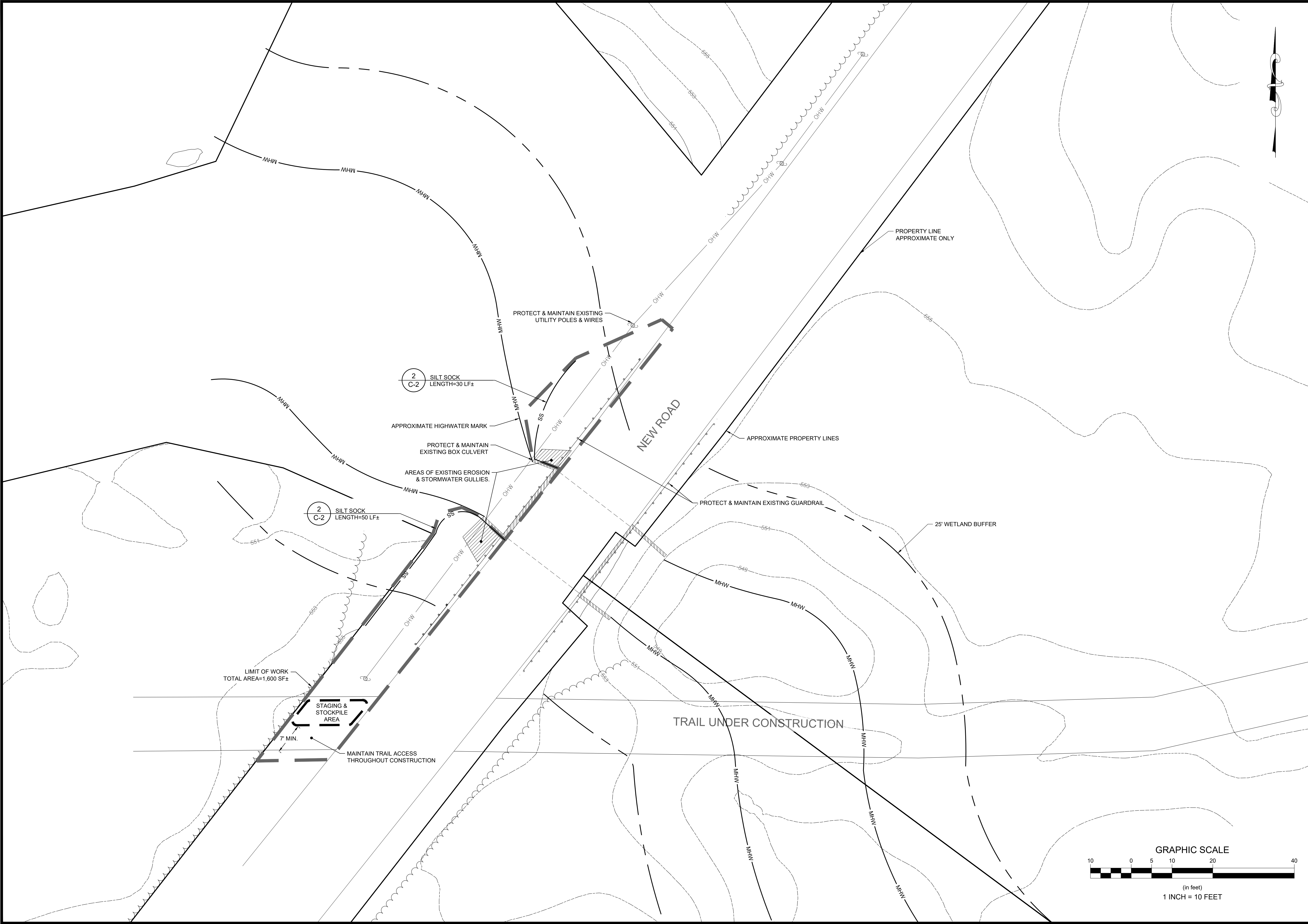


**NOTES:**  
1. STAGING AND STOCKPILES TO OCCUR DOWN LAKE ROAD. COORDINATE WITH TOWN OF TUFTONBORO.

<b>Revisions</b>				Created By:	
				PAC	
		Designed By:		Drawn By:	
				BALJMP	
		Date:		AUGUST 2020	
				Checked By:	
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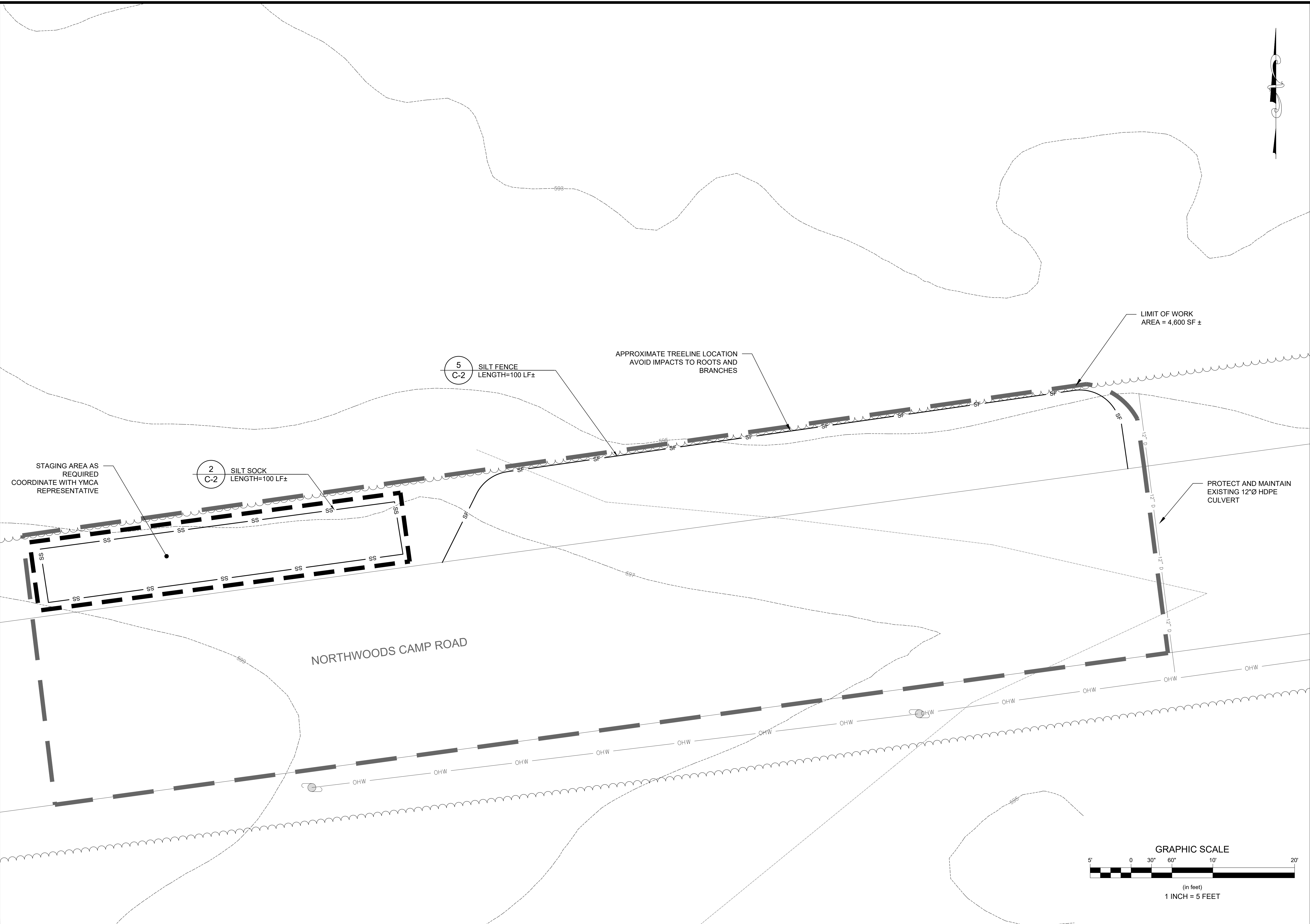


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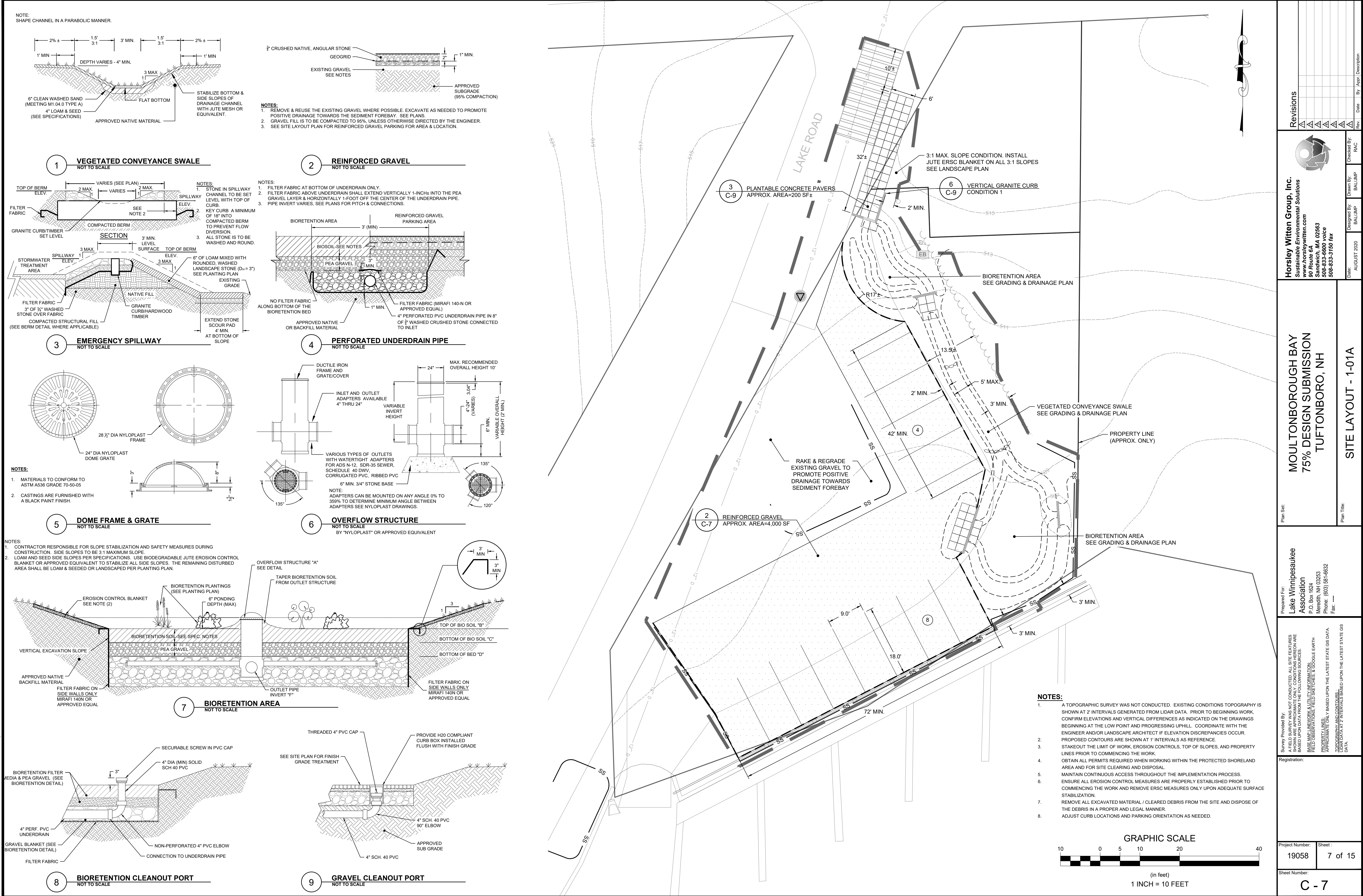
<b>Revisions</b>	Horsley Witten Group, Inc. Sustainable Environmental Solutions www.horsleywitten.com 80 Route 6A Sandwich, MA 02563 508-833-6600 voice 508-833-3150 fax			Drawn By: BAL/JP	Checked By: PAC	
	Date: AUGUST 2020	Designed By: BAL/JP	Per:	Date:	By:	Appr:
<b>MOULTONBOROUGH BAY 75% DESIGN SUBMISSION TUFTONBORO, NH</b>						
<b>DEMOLITION &amp; EROSION CONTROL - 1-12</b>						
Prepared For: <b>Lake Winnepesaukee Association</b> P.O. Box 1524 Meredith, NH 03253 Phone: (603) 581-6632 Fax: ---						
Survey Provided By: ALL DATA COLLECTED, ALL SITE FEATURES SHOWN ARE APPROXIMATE ONLY. CONDITIONS HEREON ARE BASED UPON DATA FROM THE FOLLOWING SOURCES: BASE MAP, LITERATURE & UTILITY INFORMATION FIELD OBSERVATIONS, FIELD SKETCHES & GOOGLE EARTH PROPERTY LINES: APPROXIMATE ONLY BASED UPON THE LATEST STATE GIS DATA TOPOGRAPHY AND CONTIGUOUS ADJACENT 20' WETLANDS BASED UPON THE LATEST STATE GIS DATA.						
Registration:						
Project Number: <b>19058</b>		Sheet: <b>5 of 15</b>				
Sheet Number: <b>C - 5</b>						

last modified: 09/08/20



Project Number: <b>19058</b>		Sheet : <b>6 of 15</b>	
Sheet Number: <b>C - 6</b>			

last modified: 09/08/20 printed: 09/08/20 by bl H:\Projects\2019\19058 moultontonborough bay-winter harbor\Drawings\19058 ST.dwg



Revisions	
Rev	Date
1	08/08/20
2	08/08/20
3	08/08/20
4	08/08/20
5	08/08/20
6	08/08/20
7	08/08/20
8	08/08/20
9	08/08/20

Date	By	Appr.	Description
08/08/20	BA/JMP	BA/JMP	PAC

**Horsley Witten Group, Inc.**  
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40 Route 6A  
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508-833-6600 voice  
508-833-3150 fax

**MOULTONBOROUGH BAY**  
75% DESIGN SUBMISSION  
TUFTONBORO, NH

**SITE LAYOUT - 1-01A**

Prepared For:  
**Lake Winnepesaukee Association**  
P.O. Box 1524  
Merrifield, NH 03253  
Phone: (603) 581-6632  
Fax: ---

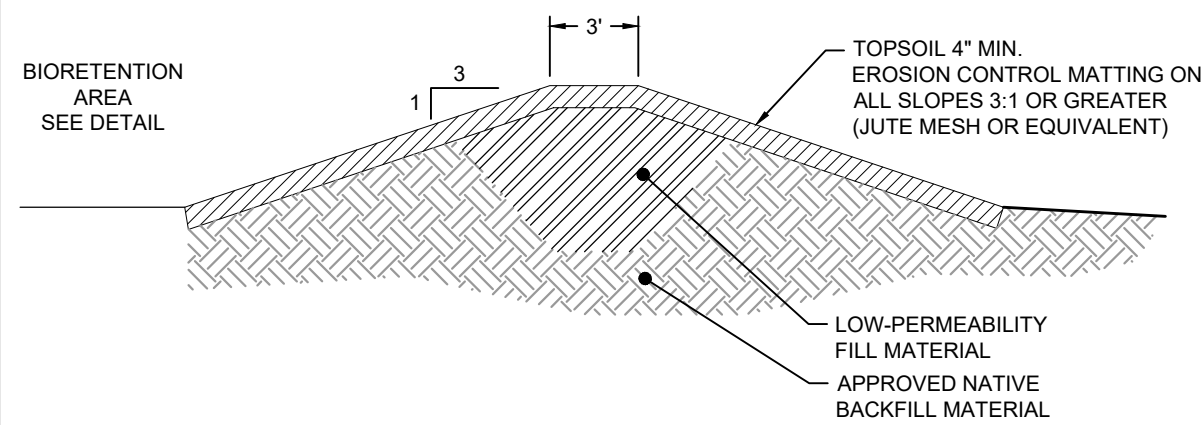
Survey Provided By:  
ALL SITE FEATURES SHOWN ARE APPROXIMATE ONLY. CONDITIONS HEREON ARE BASED UPON DATA FROM THE FOLLOWING SOURCES:  
BASE MAP, UNDERGROUND UTILITY INFORMATION, FIELD OBSERVATIONS, FIELD SKETCHES, & GOOGLE EARTH.  
PROPERTY LINES: APPROXIMATE ONLY. BASED UPON THE LATEST STATE GIS DATA.  
TOPOGRAPHY AND CONTIGUOUS AREAS: APPROXIMATE ONLY. BASED UPON THE LATEST STATE GIS DATA.

Registration:

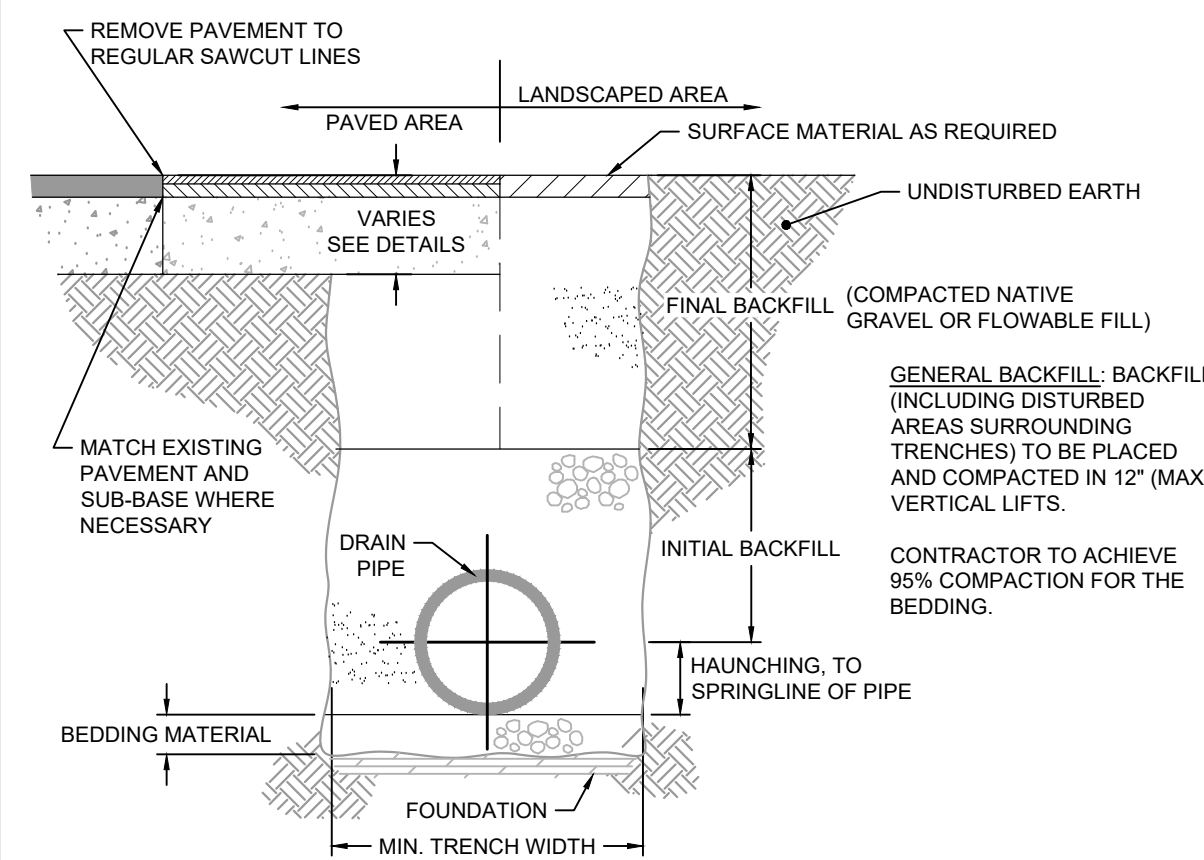
Project Number: 19058  
Sheet: 7 of 15  
Sheet Number: C - 7



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1 COMPACTED EARTH BERM  
NOT TO SCALE



- NOTES:
1. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR TO EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH A FOUNDATION OF CLASS I OR II MATERIAL AS DEFINED IN ASTM D2321. \*STANDARD PRACTICE FOR INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS: LATEST EDITION, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A WOVEN GEOTEXTILE FABRIC.
  2. BEDDING, HAUNCHING AND INITIAL BACKFILL: SUITABLE MATERIAL TO CONSIST OF CLEAN, HARD, PARTICLES OF GRAVEL MEETING THE FOLLOWING:

SIEVE SIZE	PERCENT PASSING
3/8"	85-95
NO. 4	5-15
NO. 8	0-2

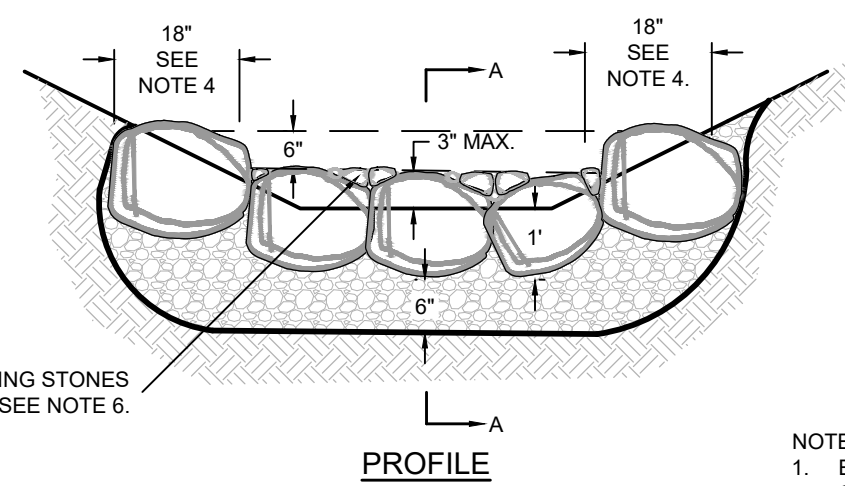
MATERIAL TO BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.  
MINIMUM BEDDING THICKNESS TO BE 4" (100mm) FOR 4"-24" PIPE (100-600mm).
  3. MINIMUM TRENCH WIDTHS TO BE AS FOLLOWS:

NOMINAL Ø in (mm)	MIN. RECOMMENDED TRENCH WIDTH in (mm)
8 (200)	10 (254)
12 (300)	15 (381)
15 (375)	18 (457)
24 (600)	25 (635)
30 (750)	28 (711)
36 (900)	31 (787)
42 (1050)	34 (863)
48 (1200)	39 (990)
  4. MINIMUM COVER: MINIMUM RECOMMENDED DEPTHS OF COVER FOR VARIOUS LIVE/LOADING CONDITIONS ARE SUMMARIZED IN THE FOLLOWING TABLE. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TAKEN FROM THE TOP OF PIPE TO THE GROUND SURFACE.

SURFACE LIVE LOADING CONDITION	MINIMUM RECOMMENDED COVER, in (mm)
H25 (FLEXIBLE PAVEMENT)	12 (300)
H25 (RIGID PAVEMENT) E80	(300) 24
RAILWAY HEAVY CONSTRUCTION	(610) 48
	(1220)

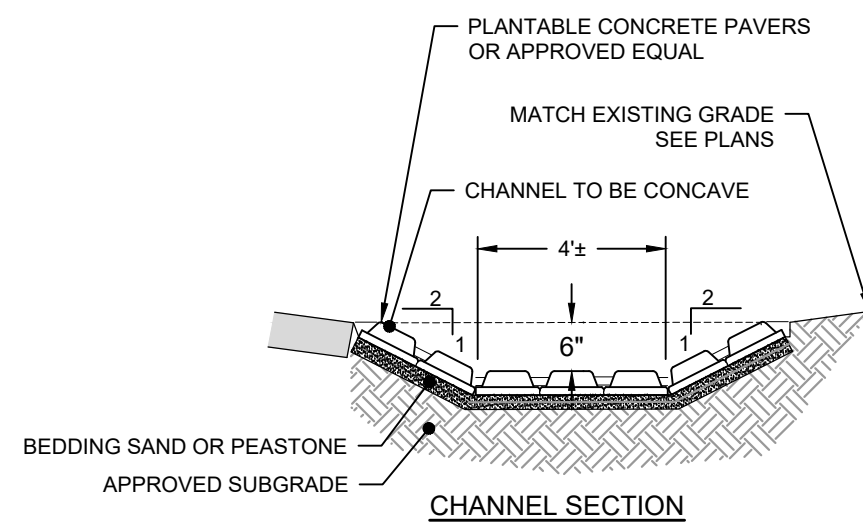
\*TOP OF PIPE TO BOTTOM OF BITUMINOUS PAVEMENT

2 DRAINAGE PIPE TRENCH TYP.  
NOT TO SCALE

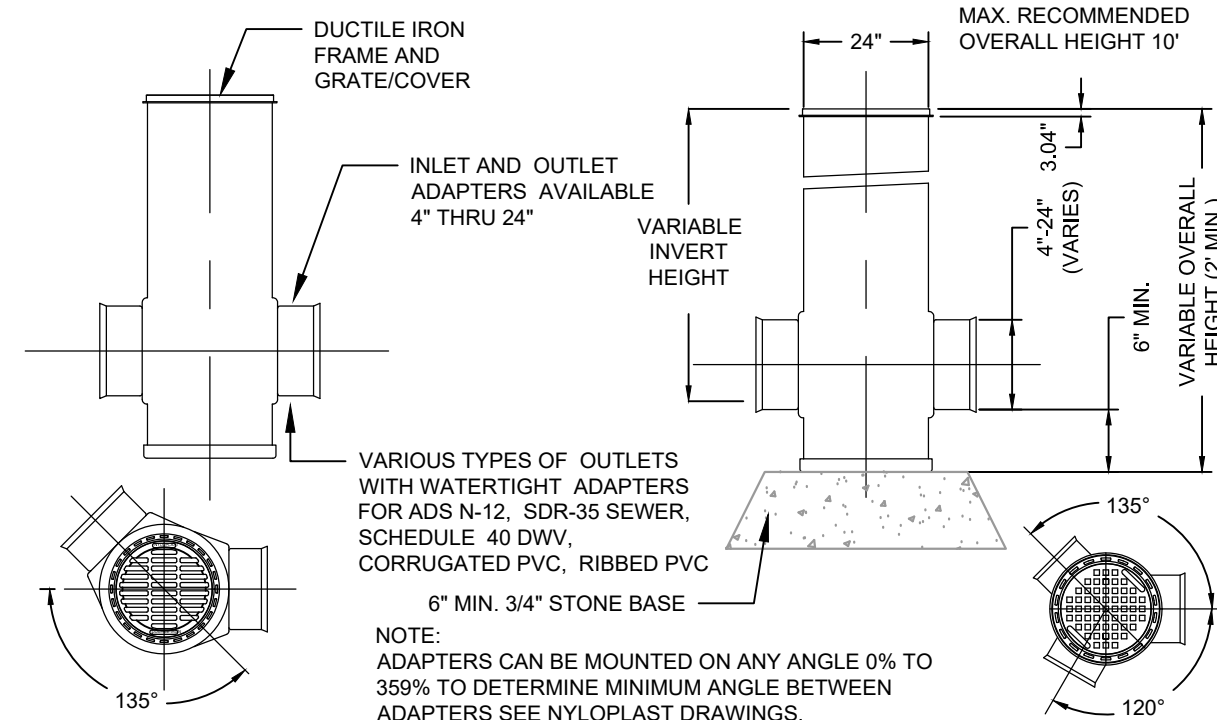


- NOTES:
1. ENSURE POSITIVE DRAINAGE DOWN CHANNEL AT OVER ALL CHECKDAMS. LOWER SPILLWAY ELEVATIONS AS NEEDED TO ENSURE STORMWATER STAYS IN SWALE.
  2. STONE SIZE: MINIMUM WIDTH AND LENGTH - 12"-18".
  3. PLACE THE STONES ACROSS THE ENTIRE WIDTH OF THE SWALE.
  4. KEY STONE INTO SIDE SLOPE EMBANKMENTS. EXTEND STONES INTO EMBANKMENT A MINIMUM OF 18" TO PREVENT FLOW FROM DIVERTING THE CHECKDAM.
  5. ADD CHINKING STONES AS NECESSARY TO FILL CREVICES BETWEEN STONES.
  6. CONSTRUCT THE TOP OF THE CHECKDAM SO THE CENTER IS APPROXIMATELY 6" LOWER THAN THE OUTER EDGES, FORMING A WEIR THAT WATER CAN FLOW ACROSS.
  7. DO NOT EXCEED A MAXIMUM CENTRAL CREST HEIGHT OF 3".

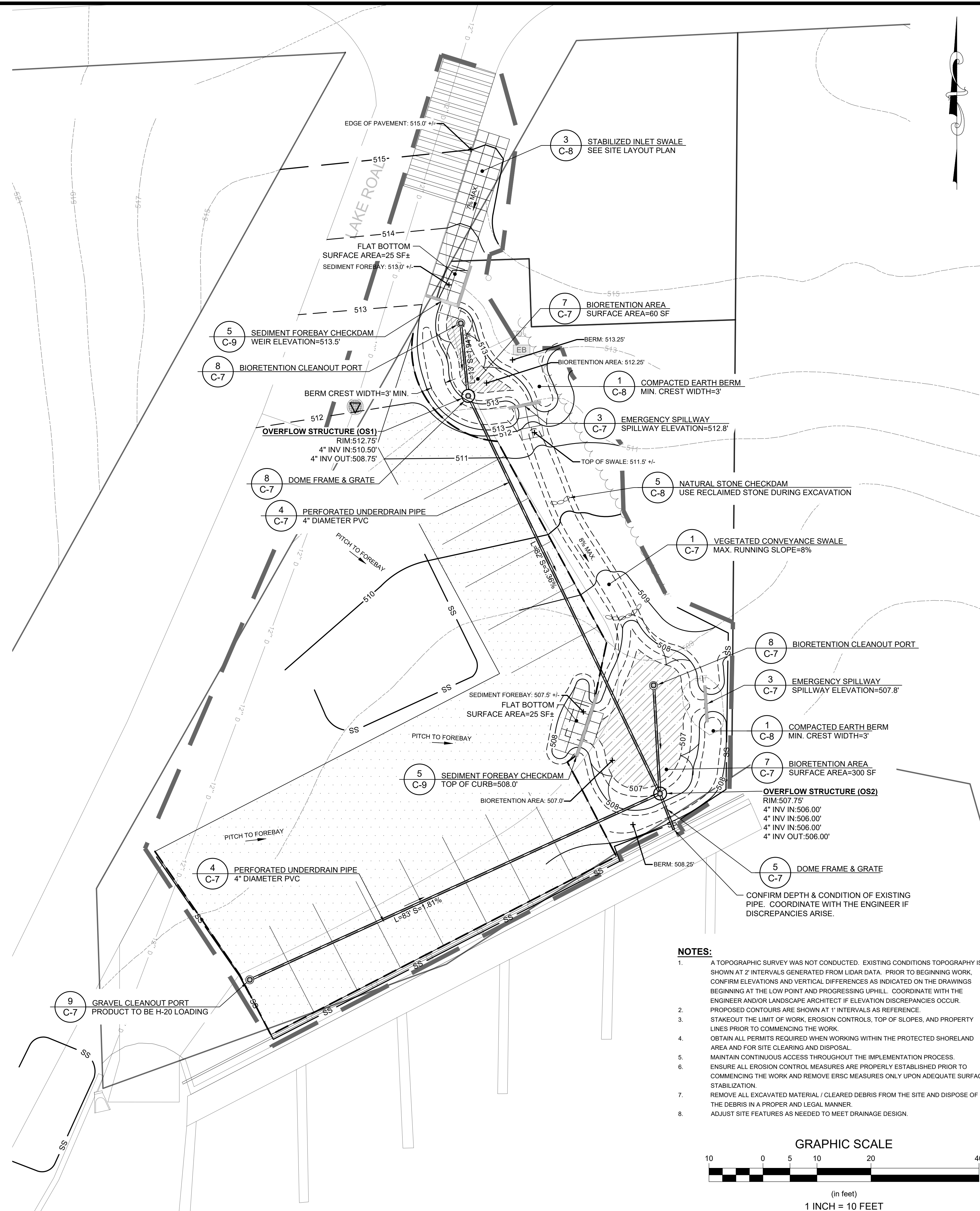
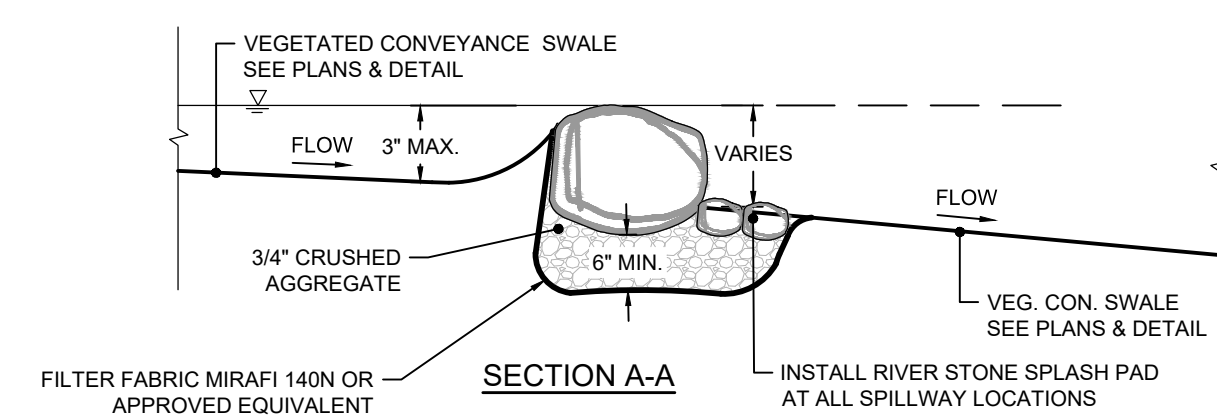
5 NATURAL STONE CHECKDAM  
NOT TO SCALE



3 STABILIZED INLET SWALE  
NOT TO SCALE

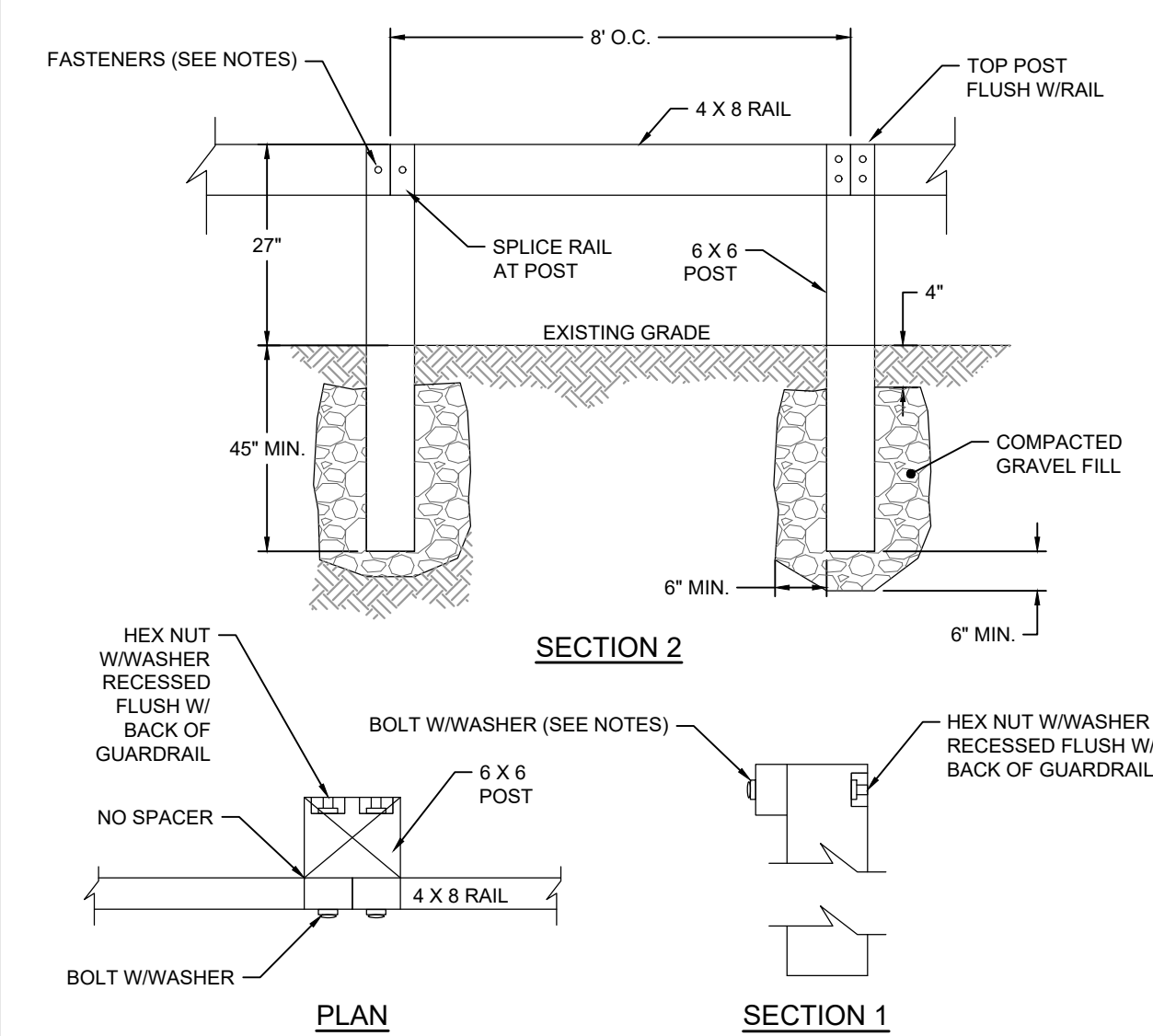


4 NYLOPLAST STRUCTURE  
NOT TO SCALE



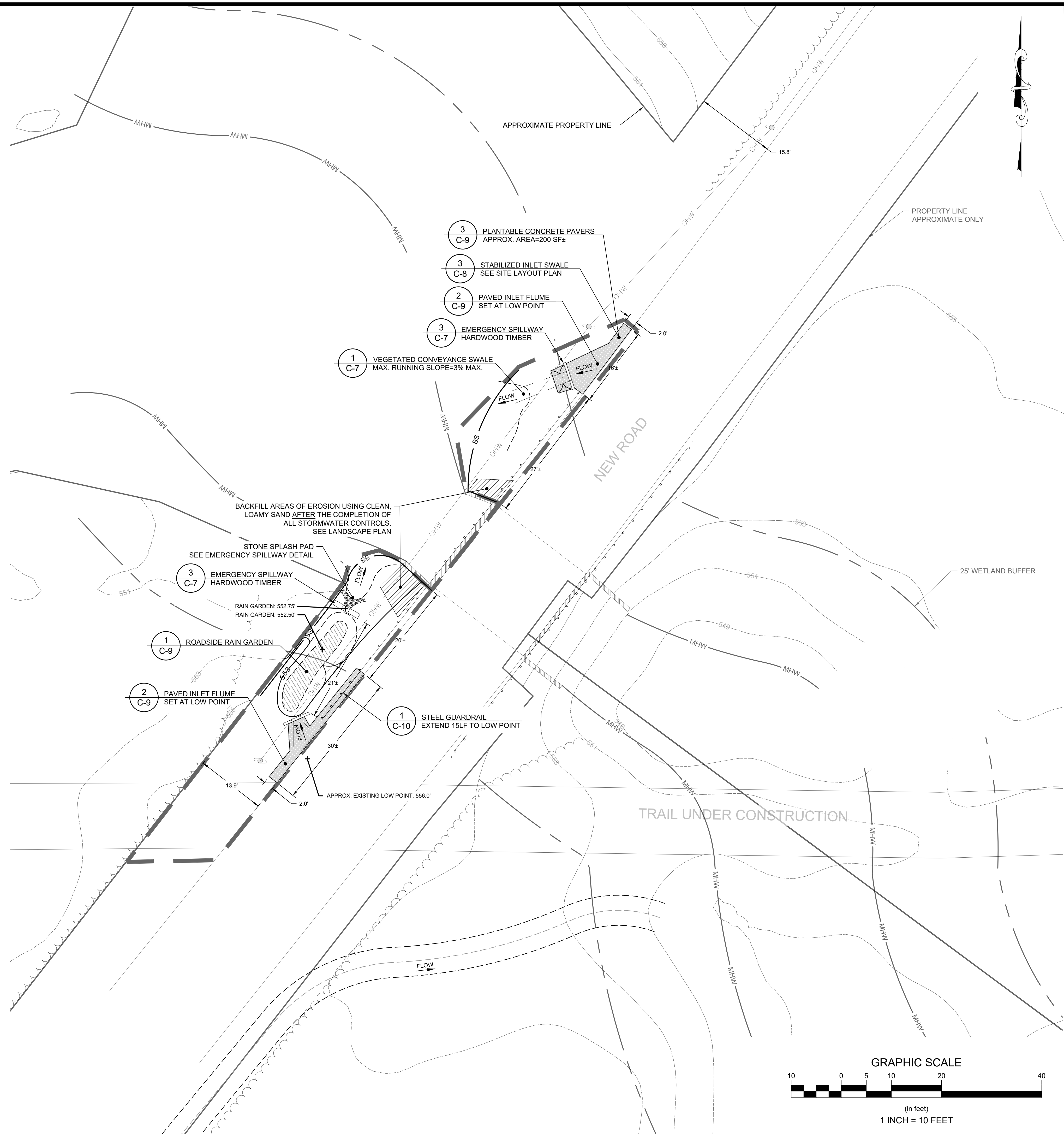
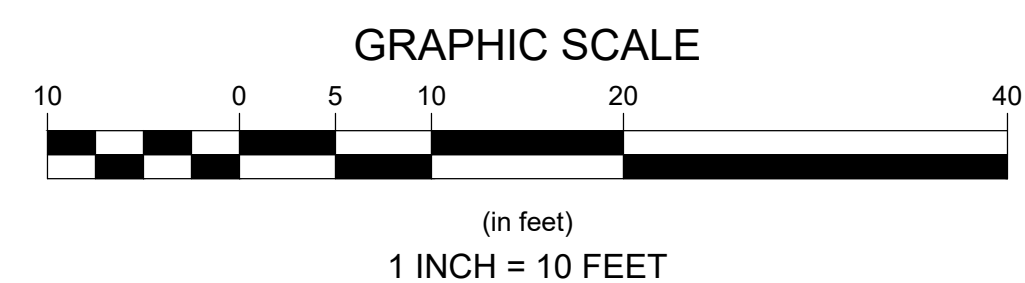






- NOTES:
1. POST AND RAILS TO BE STEEL, UNLESS OTHERWISE APPROVED BY THE TOWN
  2. ALL SPLICES ARE TO BE MADE AT POSTS, IF NEEDED.
  3. BUMPER ANCHORS TO BE RAIL BOLTS WITH NUTS AND WASHER CONNECTION. FASTENERS TO BE HOT DIPPED GALVANIZED OR STAINLESS STEEL MATCHING ASTM A153 AND ASTM A653.
  4. THE CONTRACTOR TO INSTALL EITHER TWO 3/4"Ø BOLTS OR ONE 2"Ø BOLT AT EACH RAIL TO POST CONNECTION.
  5. COMPACTED GRAVEL FOOTING TO EXTEND AROUND THE ENTIRE POST.

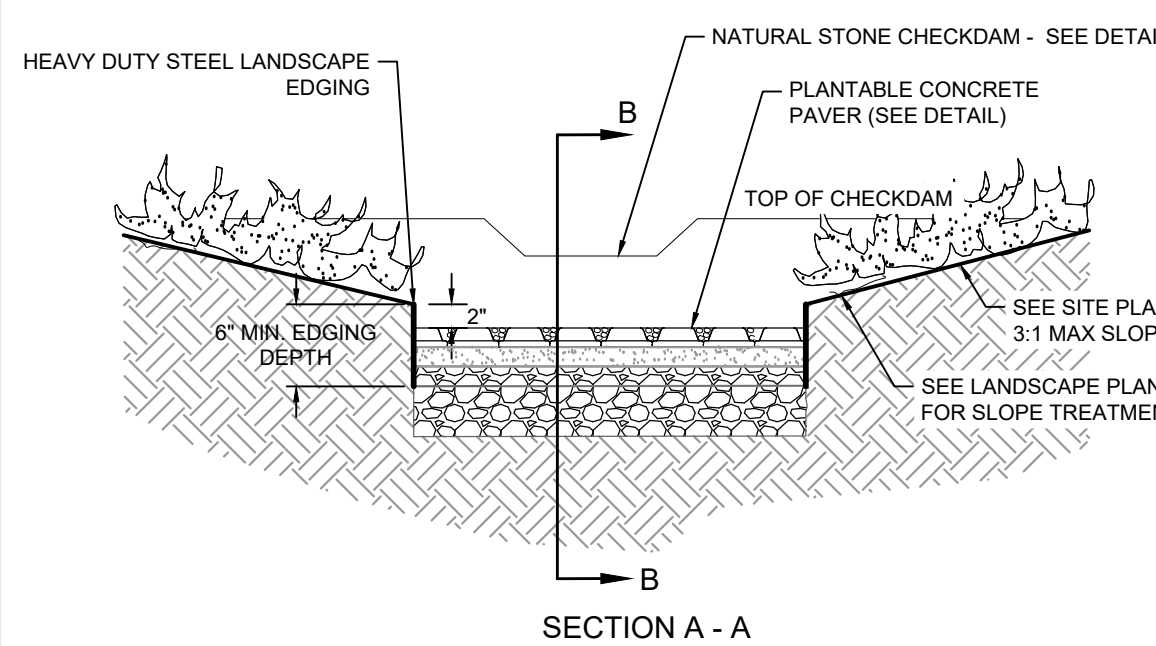
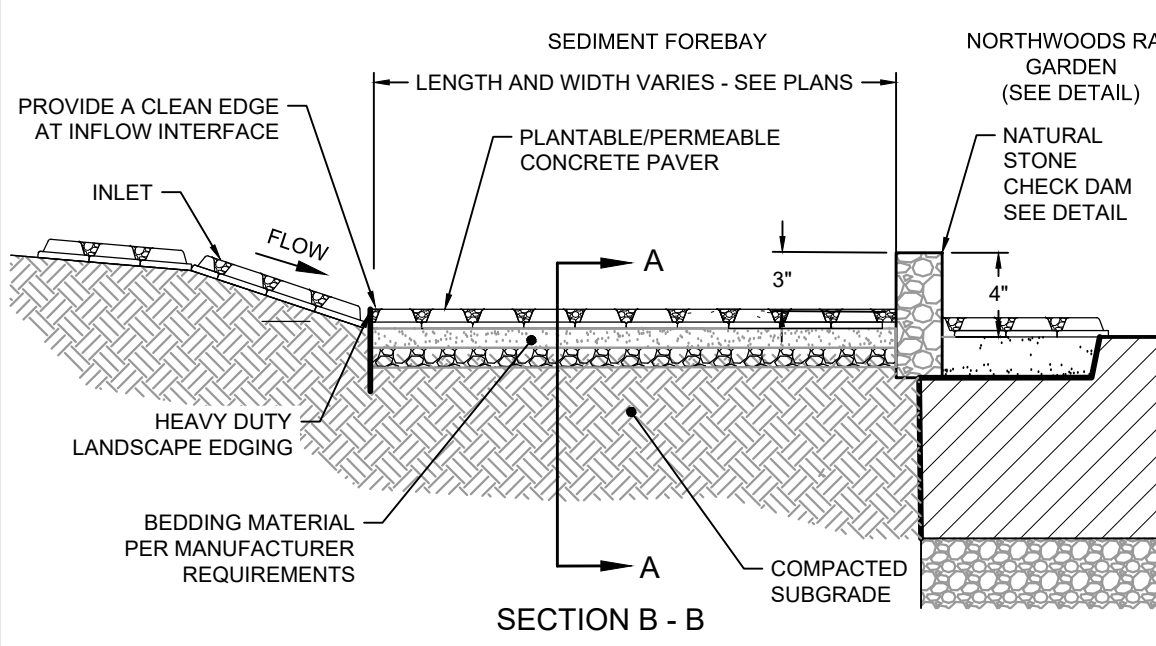
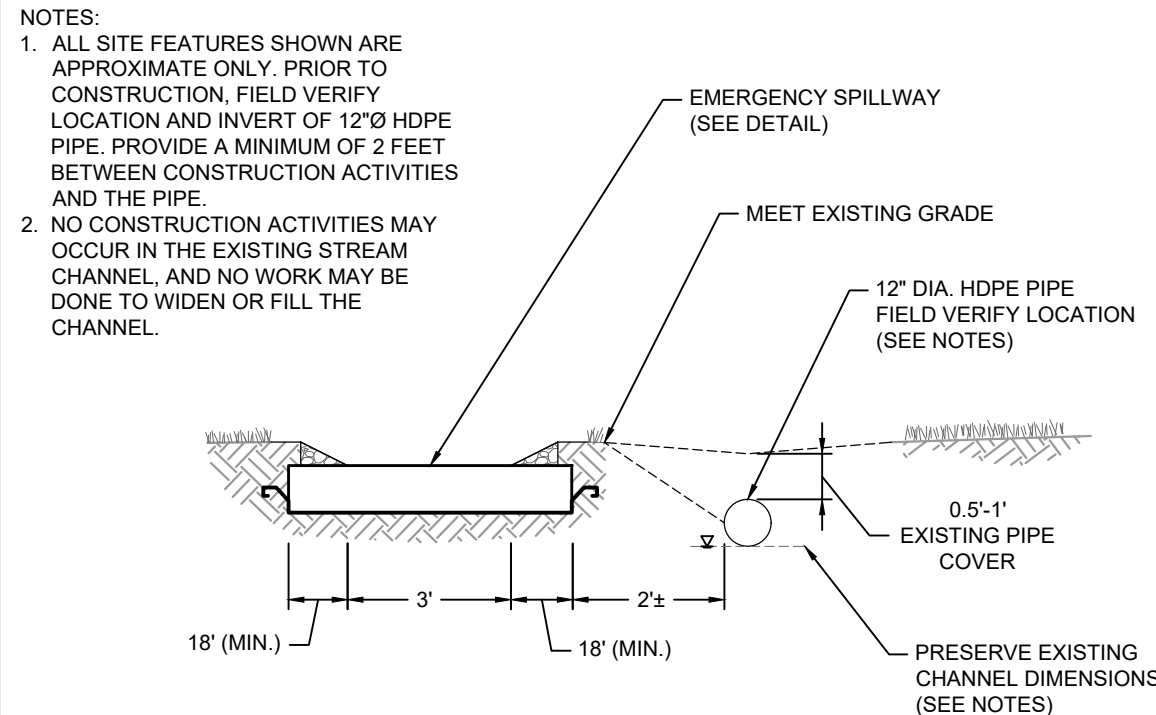
**1 STEEL GUARDRAIL**  
NOT TO SCALE



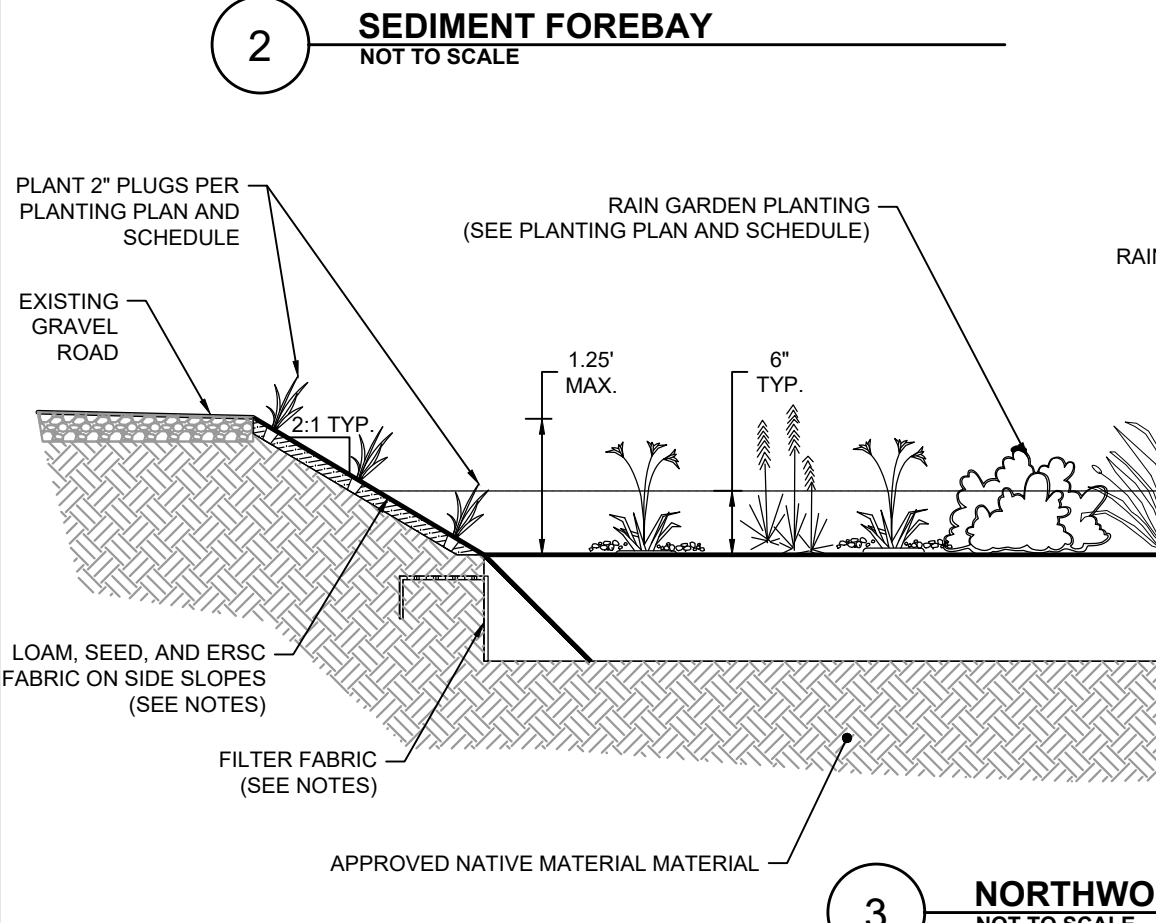
Project Number: <b>19058</b>		Sheet: <b>10 of 15</b>	
Sheet Number: <b>C - 10</b>			
Survey Provided By: A FIELD SURVEY WAS NOT CONDUCTED. ALL SITE FEATURES AND LOCATIONS WERE OBTAINED FROM THE LATEST STATE GIS BASED MAP (NEWBORN & LUTHERVILLE INFORMATION). BASED UPON DATA FROM THE FOLLOWING SOURCES: FIELD OBSERVATIONS, FIELD SHEETS, & GOOGLE EARTH PHOTOGRAPHS.		Registration: APPROXIMATE ONLY BASED UPON THE LATEST STATE GIS DATA. (DO NOT WAIT 2 INTERVALS BASED UPON THE LATEST STATE GIS DATA).	
Prepared For: <b>Lake Winnepesaukee Association</b> 6000 Highway 1 Merrim, NH 03253 Phone: (603) 591-4832 Fax: ---		Plan Set: <b>MOULTONBOROUGH BAY 75% DESIGN SUBMISSION TUFTONBORO, NH</b>  <b>SITE LAYOUT - 1-12</b>	
Prepared By: <b>Horsley Witten Group, Inc.</b> <b>Sustainable Environmental Solutions</b> <b>www.horsleywitten.com</b> <b>6000 Highway 1</b> <b>Sandwich, MA 02563</b> <b>508-832-6600 voice</b> <b>508-832-3150 fax</b>		Revisions	
Date: <b>AUGUST 2020</b>		Checked By: <b>RAC</b>	
Designed By: <b>BAU/MP</b>		Drawn By: <b>BAU/MP</b>	
Date: <b>AUGUST 2020</b>		Rev: <b>1</b>	



last modified: 09/08/20 printed: 09/08/20 by bl H:\Projects\2019\19058 moultontonborough bay-winter harbor\Drawings\19058 ST.dwg

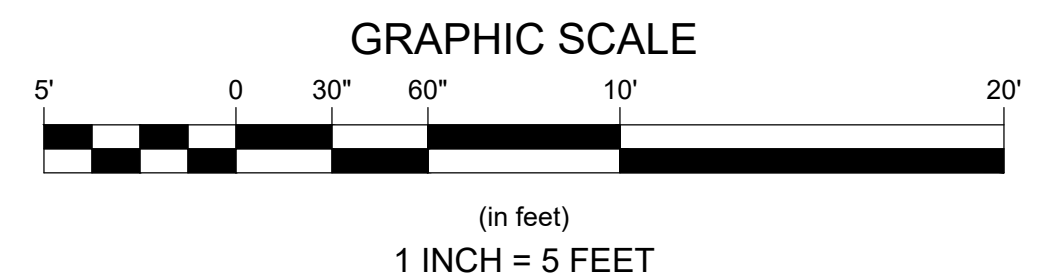


- NOTES:
1. SEE SPECIFICATIONS FOR PLANTABLE PAVER REQUIREMENTS.
  2. INSTALL PLANTABLE PAVER SYSTEM PER MANUFACTURERS REQUIREMENTS.
  3. SHAPE FOREBAY AS REQUIRED WITH MIN. 6" SIDE SLOPE DEPTH.
  4. LANDSCAPE EDGING: HEAVY DUTY STEEL LANDSCAPE EDGING (1" THICKNESS) WITH NATURAL FINISH
  5. SEE PLANS FOR DIMENSIONS, GRADING, AND ELEVATIONS FOR SEDIMENT FOREBAY



NORTHWOODS CAMP ROAD

- NOTE:
1. FILTER FABRIC TO BE MIRAFI 140N OR APPROVED EQUAL
  2. FILTER FABRIC TO BE PLACED ALONG SIDE WALLS ONLY
  3. EROSION CONTROL BLANKET TO BE JUTE MESH OR APPROVED EQUIVALENT
  4. SEE BIORETENTION SPECIFICATIONS FOR FILTER MEDIA.



Revisions

Rev	Date	By	Appr	Description
1				
2				
3				
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5				
6				
7				
8				
9				
10				

**Horsley Witten Group, Inc.**  
Sustainable Environmental Solutions  
www.horsleywitten.com  
90 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

Date: AUGUST 2020  
Designed By: BAL/JMP  
Drawn By: BAL/JMP  
Checked By: PAC

MOULTONBOROUGH BAY  
75% DESIGN SUBMISSION  
TUFTONBORO, NH

Plan Set: SITE LAYOUT - 4-07

Prepared For:  
**Lake Winnepesaukee Association**  
P.O. Box 1524  
Merrifield, NH 03253  
Phone: (603) 581-6632  
Fax: ---

Survey Provided By:  
ALL DATA SHOWN ON THIS PLAN WAS OBTAINED FROM THE FOLLOWING SOURCES:  
BASE MAP: LINEWORK & UTILITY INFORMATION: FIELD OBSERVATIONS, FIELD SKETCHES, & GOOGLE EARTH  
PROPERTY LINES: APPROXIMATE ONLY, BASED UPON THE LATEST STATE GIS DATA  
ELEVATIONS AND COORDINATES: APPROXIMATE ONLY, BASED UPON THE LATEST STATE GIS DATA

Registration:

Project Number: 19058  
Sheet: 11 of 15

Sheet Number: C - 11



last modified: 08/31/20    printed: 09/08/20 by bl    H:\Projects\2019\19058 moultontonborough bay-winter harbor\Drawings\19058 LA.dwg

GENERAL PLANTING NOTES:

- THE FOLLOWING NOTES ARE PROVIDED AS GENERAL PLANTING GUIDELINES ONLY. THOROUGHLY REVIEW THE PROJECT SPECIFICATIONS FOR ALL LANDSCAPE REQUIREMENTS PRIOR TO THE COMMENCEMENT OF ANY LANDSCAPE WORK. SUBMIT IN WRITING TO THE LANDSCAPE ARCHITECT ANY QUESTIONS OR CLARIFICATIONS REQUIRED AT A MINIMUM OF 30 DAYS PRIOR TO ORDERING ANY MATERIALS OR BEGINNING ANY LANDSCAPE CONSTRUCTION.
- SUBMIT TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL ALL REQUIRED LANDSCAPE SUBMITTALS AS DESCRIBED IN THE SPECIFICATIONS INCLUDING A PLANT LIST WITH PLANT SIZE AND QUANTITIES TO BE ORDERED PRIOR TO DELIVERY TO THE PROJECT SITE.
- FURNISH AND INSTALL ALL PLANTS AS SHOWN ON THE DRAWINGS AND IN THE SIZE AND QUANTITIES SPECIFIED ON THE PLANTING SCHEDULE. PLANT SUBSTITUTION SELECTION MUST BE APPROVED BY BIOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- ALL PLANTS TO COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION INC.
- PLANTS TO BE GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST TWO (2) YEARS. USE HEALTHY NURSERY GROWN PLANTS, FREE OF DISEASE, INSECTS, AND PESTS. EGGS OR LARVAE, AND HAVE A WELL DEVELOPED ROOT SYSTEM.
- INSTALL PLANTS WITHIN ONE (1) WEEK OF PURCHASE. IF PLANTS ARE TO BE STORED AT THE SITE PRIOR TO PLANTING, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THEY ARE PROPERLY MAINTAINED, WATERED, AND REMAIN HEALTHY.
- PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT. SUBMIT TO THE LANDSCAPE ARCHITECT IN WRITING THE PROPOSED PLANTING SCHEDULE. OBTAIN APPROVAL OF PLANTING SCHEDULE FROM THE LANDSCAPE ARCHITECT PRIOR TO PERFORMING ANY WORK.
- SEASONS FOR PLANTING:

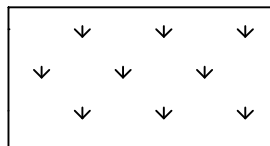
SPRING:

DECIDUOUS: APRIL 1 TO JUNE 15  
EVERGREEN: APRIL 1 TO JUNE 15  
PERENNIALS: APRIL 15 TO JUNE 1  
GROUNDCOVERS: APRIL 15 TO JUNE 1

FALL:

DECIDUOUS: SEPTEMBER 15 TO NOVEMBER 15  
EVERGREEN: SEPTEMBER 15 TO NOVEMBER 15  
PERENNIALS: SEPTEMBER 15 TO NOVEMBER 15  
GROUNDCOVERS: SEPTEMBER 15 TO NOVEMBER 15
- PLANTING UNDER FROZEN CONDITIONS IN EITHER THE SPRING OR FALL WILL NOT BE PERMITTED. PLANTING BEFORE OR AFTER THE ABOVE REFERENCED PLANTING DATES WILL INCREASE THE LIKELIHOOD OF PLANT OR GRASS SEED ESTABLISHMENT FAILURE. ANY DEVIATION FROM THE ABOVE REFERENCED PLANTING DATES IS UNDERTAKEN AT SOLE RISK OF THE CONTRACTOR AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ANY ADDITIONAL MAINTENANCE AND WATERING WHICH MAY BE REQUIRED TO ENSURE SATISFACTORY PLANT AND SEED ESTABLISHMENT.
- FURNISH ONE YEAR MANUFACTURER WARRANTY FOR TREES, PLANTS, AND GROUND COVER AGAINST DEFECTS INCLUDING DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, OR ABUSE BY OWNER, OR ABNORMAL WEATHER CONDITIONS UNUSUAL FOR WARRANTY PERIOD. THE DATE OF FINAL ACCEPTANCE OF ALL COMPLETED PLANTING WORK ESTABLISHES THE END OF INSTALLATION AND INITIAL MAINTENANCE PERIOD AND THE COMMENCEMENT OF THE GUARANTEE PERIOD.
- INSPECT ALL AREAS TO BE PLANTED OR SEEDED PRIOR TO STARTING ANY LANDSCAPE WORK. REPORT ANY DEFECTS SUCH AS INCORRECT GRADING, INCORRECT SUBGRADE ELEVATIONS OR DRAINAGE PROBLEMS, ETC., TO THE LANDSCAPE ARCHITECT AND ENGINEER PRIOR TO BEGINNING WORK. COMMENCEMENT OF WORK INDICATES ACCEPTANCE OF SUBGRADE AREAS TO BE PLANTED, AND THE LANDSCAPE CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL LANDSCAPE WORK.
- PROVIDE PROPER PREPARATION OF ALL PROPOSED PLANTED AND SEEDED AREAS PER THE NOTES AND SPECIFICATIONS.
- BALL AND BURLAP: REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF BALLS AND FROM TOP HALF OF ROOTBALL AS INDICATED ON DRAWINGS. REMOVE PALLETS, IF ANY, BEFORE SETTING.
- POTTED PLANTS: REMOVE THE PLANT FROM THE POT AND LOOSEN OR SCORE THE ROOTS BEFORE PLANTING TO PROMOTE OUTWARDS ROOT GROWTH INTO THE SOIL.
- PLUGS: PLANT UPRIGHT AND NOT AT AN ANGLE. DIG PLANTING HOLES LARGE ENOUGH AND DEEP ENOUGH TO ACCOMMODATE THE ENTIRE ROOT MASS. PLANT PLUGS WITH NO TWISTED OR BALLED ROOTS AND WITH NO ROOTS EXPOSED ABOVE THE GRADE LINE. HAND PACK THE SOIL AROUND THE ENTIRE PLUG ROOT MASS.
- DIG THE THE PLANTING HOLE TO THE SAME DEPTH AS THE ROOT BALL AND TWO TO THREE TIMES WIDER. SCORE ALL SIDES OF THE HOLE, PLACE THE PLANT IN THE HOLE SO THE TOP OF ROOT BALL IS EVEN WITH SOIL SURFACE. FILL THE HOLE HALFWAY AND THEN ADD WATER ALLOWING IT TO SEEP INTO BACK FILLED MATERIAL. BE SURE TO REMOVE ALL AIR POCKETS FROM BACK FILLED SOIL. DO NOT SPREAD SOIL ON TOP OF THE ROOTBALL. IF SOIL IS EXTREMELY POOR, REPLACE BACK FILL WITH GOOD QUALITY TOP SOIL. AMEND THE SOIL, AS NECESSARY.
- CREATE A 2" TO 4" BERM AROUND THE EDGE OF PLANTING HOLE WITH REMAINING SOIL TO RETAIN WATER.
- REMOVE ALL PLANT TAGS AND FLAGS FROM THE PLANTS.
- MULCH ALL PLANTING BEDS AS INDICATED ON DRAWINGS. UNLESS NOTED OTHERWISE, ALL PLANTS TO RECEIVE 2-3 INCHES OF MULCH. DO NOT PILE OR MOUND MULCH AROUND THE PLANT STEMS OR TRUNK.

SYMBOL LEGEND:



**SEED MIX 1 - MOW AS NEEDED**  
FINE FESCUE BLEND

25% CREEPING RED FESCUE - Festuca rubra  
25% CHEWINGS FESCUE - Festuca rubra subsp. commutata  
25% HARD FESCUE - Festuca brevipila  
25% SHEEP FESCUE - Festuca ovina

OR APPROVED EQUAL

GENERAL SEEDING NOTES:

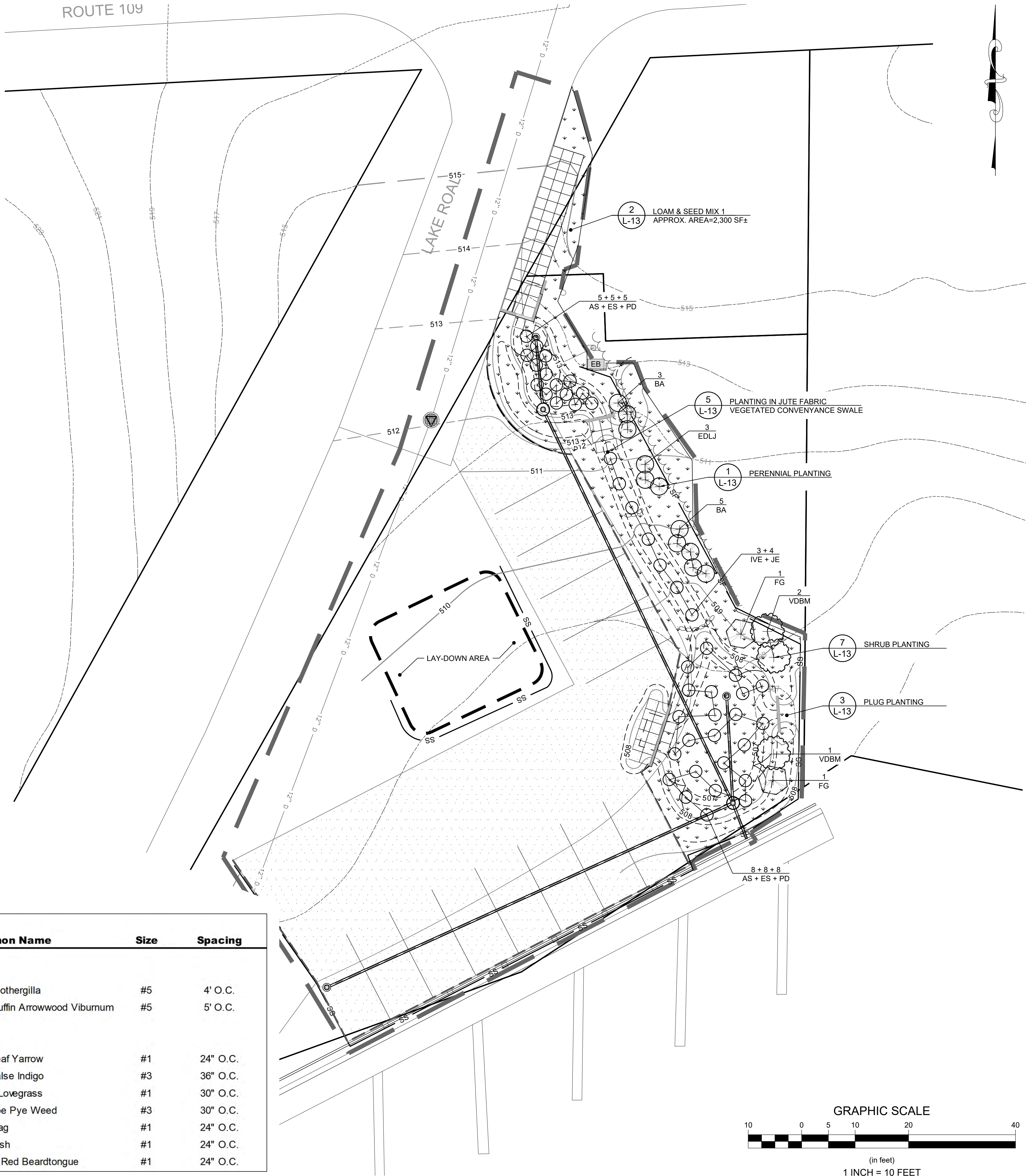
- SEND A REPRESENTATIVE SAMPLE OF THE TOPSOIL TO A TESTING LABORATORY FOR STANDARD SOIL ANALYSIS AS DESCRIBED IN THE SPECIFICATIONS. SUBMIT TO THE LANDSCAPE ARCHITECT AND ENGINEER TEST RESULTS WITH RECOMMENDED SOIL TREATMENTS TO PROMOTE PLANT AND GRASS GROWTH. CORRECT DEFICIENCIES IN THE LOAM AND STOCKPILED TOPSOIL AS DIRECTED BY THE TESTING AGENCY.
- ALL AREAS THAT ARE DISTURBED AND/OR GRADED DURING CONSTRUCTION ARE TO BE BROUGHT TO FINISHED GRADE WITH AT LEAST 4" MINIMUM DEPTH OF GOOD QUALITY LOAM AND SEEDED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- PRIOR TO THE PLACEMENT OF TOP SOIL, LOOSEN THE SUBGRADE OF ALL PROPOSED SEEDED AREAS TO A DEPTH OF 6" AND RAKE TO REMOVE STONES LARGER THAN 1 INCH, STICKS, ROOTS, RUBBISH AND OTHER EXTRANEIOUS MATTER AND LEGALLY DISPOSE TO AN OFF SITE LOCATION.
- DO NOT SPREAD TOPSOIL IF THE SUBGRADE IS FROZEN, EXCESSIVELY WET, COMPACTED OR NOT PROPERLY PREPARED PER THE NOTES AND SPECIFICATIONS.

WATERING NOTES:

- PROVIDE PROPER PLANT CARE, MAINTENANCE AND WATERING ON SITE UNTIL SUCH TIME AS THE LANDSCAPING IS ACCEPTED BY THE PROPERTY OWNER AS SATISFACTORY PER THE SPECIFICATIONS OR AS DETERMINED BY ANY WRITTEN AGREEMENTS BETWEEN THE CONTRACTOR AND PROPERTY OWNER.
- ESTABLISH AN APPROPRIATE WATERING SCHEDULE FOR ALL PLANT MATERIAL BASED UPON PLANT SPECIES REQUIREMENTS AND PROVIDE IN WRITING TO THE LANDSCAPE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL. ADHERE TO THE APPROVED SCHEDULE UNTIL PLANTS ARE FULLY ESTABLISHED.
- AT A MINIMUM THE NEWLY SEEDED AND/OR HYDROSEEDED LAWNS SHOULD BE WATERED 2-3 TIMES WEEKLY THROUGHOUT ESTABLISHMENT AND DURING DROUGHT CONDITIONS. SPECIAL CARE SHOULD BE TAKEN TO ENSURE THAT THE LAWN IS NOT SATURATED DURING WATERING. IF AN IRRIGATION SYSTEM IS NOT PROVIDED, A TEMPORARY IRRIGATION SYSTEM OR HANDHELD GARDEN HOSE SHALL BE USED FOR WATERING SEEDED AREAS. THE AREA MUST BE MAINTAINED CONSISTENTLY MOIST FOR THE BEST GERMINATION RESULTS. ADDITIONAL WATERING WILL BE REQUIRED IF PLANTING AND SEEDING OCCUR OUTSIDE OF THE RECOMMENDED PLANTING SEASONS.

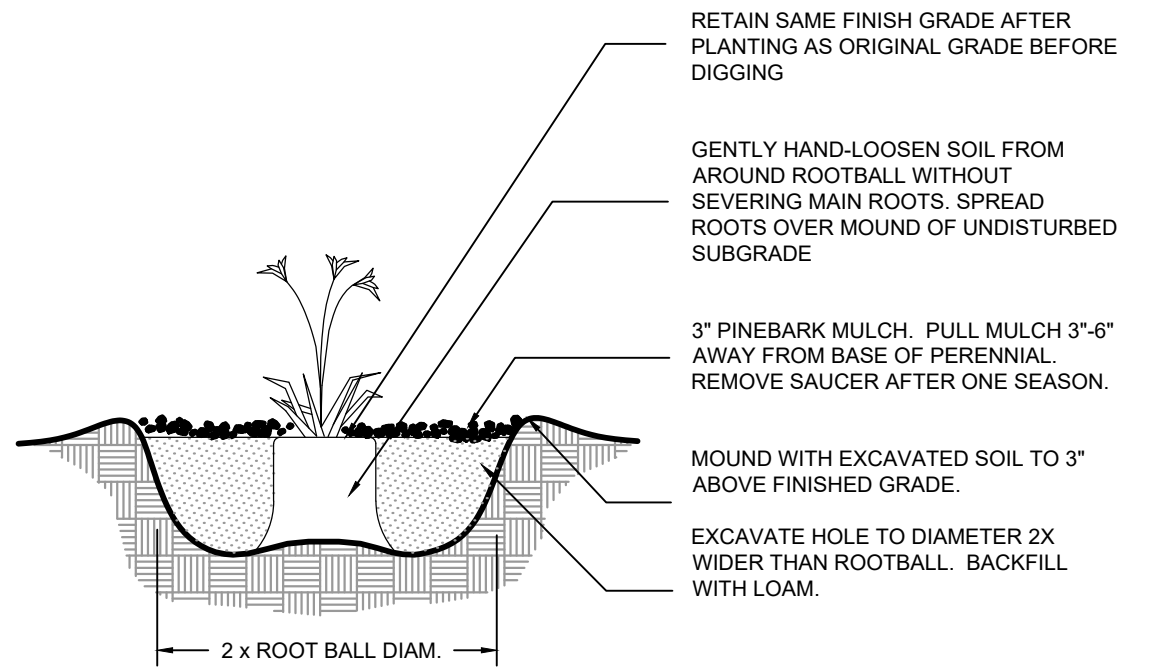
SITE 1-01A PLANT LIST

Key	Qty.	Botanical Name	Common Name	Size	Spacing
<b>SHRUBS</b>					
FG	2	<i>Fothergilla gardenii</i>	Dwarf Fothergilla	#5	4' O.C.
VDBM	3	<i>Viburnum dentatum</i> 'Blue Muffin'	Blue Muffin Arrowwood Viburnum	#5	5' O.C.
<b>GROUNDCOVERS &amp; PERENNIALS</b>					
AS	13	<i>Achillea</i> 'Sassy Summer Silver'	Silver-leaf Yarrow	#1	24" O.C.
BA	8	<i>Baptisia australis</i>	Blue False Indigo	#3	36" O.C.
ES	13	<i>Eragrostis spectabilis</i>	Purple Lovegrass	#1	30" O.C.
EDLJ	3	<i>Eupatorium dubium</i> 'Little Joe'	Little Joe Pye Weed	#3	30" O.C.
IVE	3	<i>Iris versicolor</i>	Blue Flag	#1	24" O.C.
JE	4	<i>Juncus effusus</i>	Soft Rush	#1	24" O.C.
PD	13	<i>Penstemon digitalis</i> 'Husker Red'	Husker Red Beardtongue	#1	24" O.C.

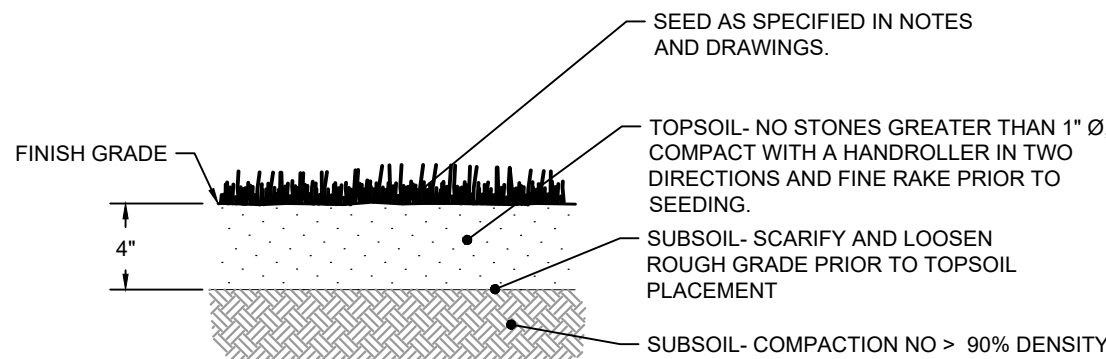




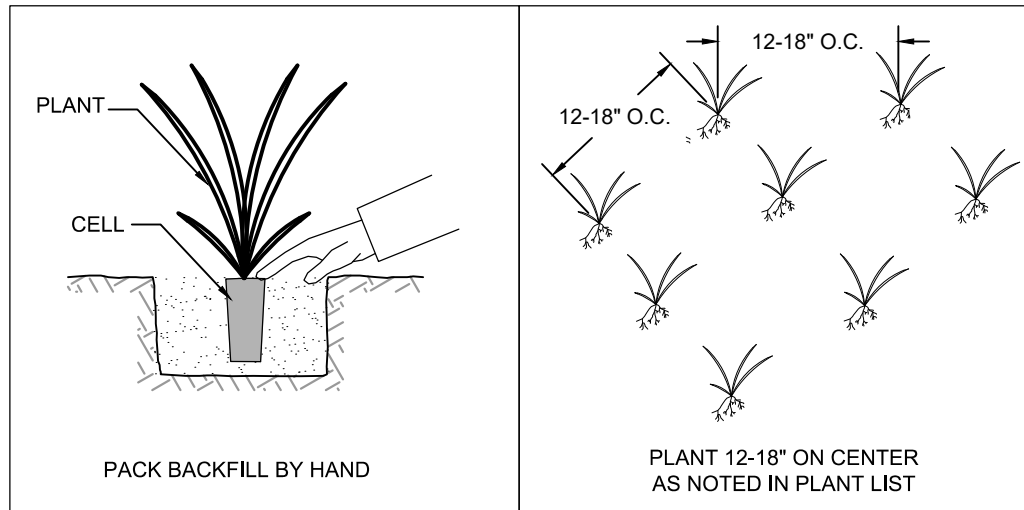
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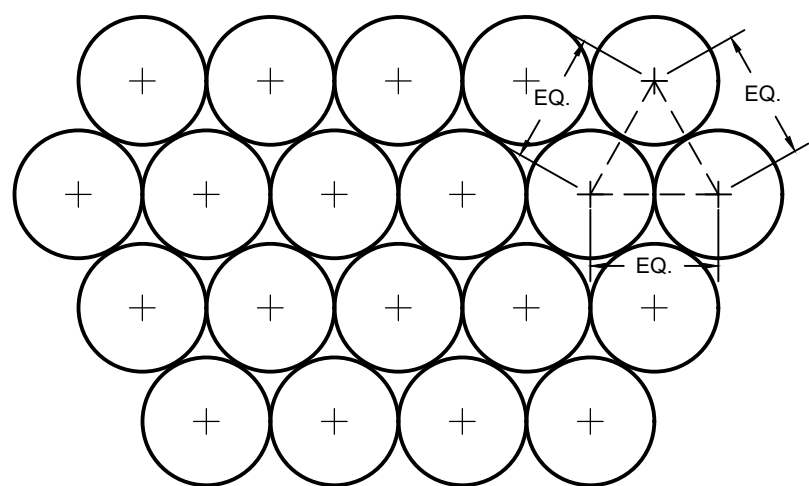
1 PERENNIAL PLANTING  
NOT TO SCALE



2 LOAM & SEED  
NOT TO SCALE



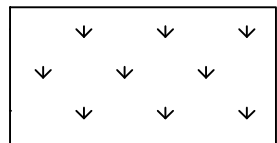
3 PLUG PLANTING  
NOT TO SCALE



USE EQUIDISTANT TRIANGULAR SPACING FOR PLANTS - FOR ACTUAL SPACING SEE PLANS OR PLANTING SCHEDULE

4 PLANT SPACING  
NOT TO SCALE

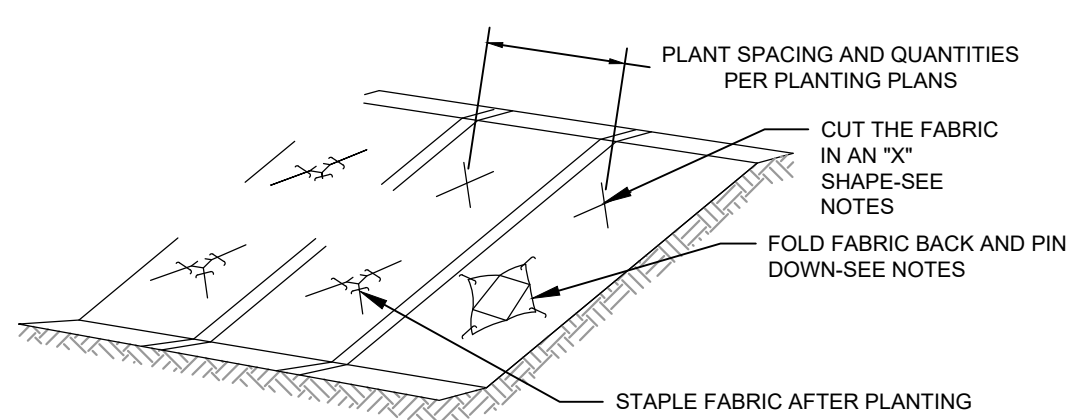
SYMBOL LEGEND:



SEED MIX 1 - MOW AS NEEDED  
FINE FESCUE BLEND

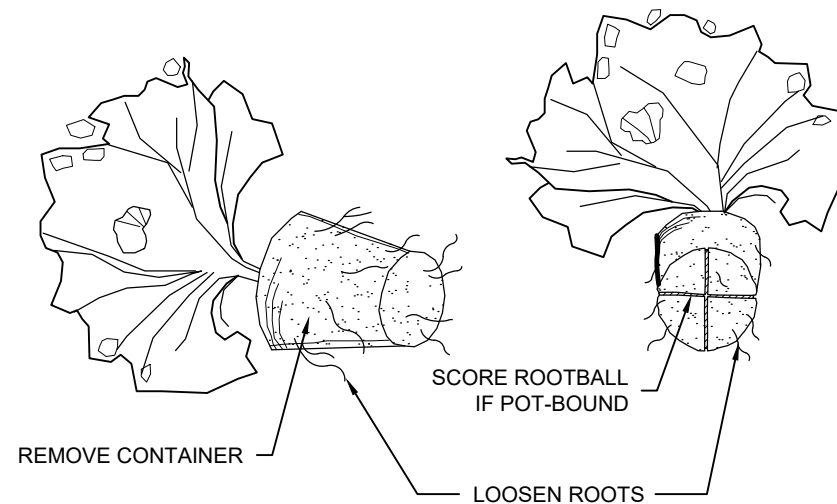
25% CREEPING RED FESCUE - *Festuca rubra*  
25% CHEWINGS FESCUE - *Festuca rubra* subsp. *commutata*  
25% HARD FESCUE - *Festuca brevipila*  
25% SHEEP FESCUE - *Festuca ovina*

OR APPROVED EQUAL

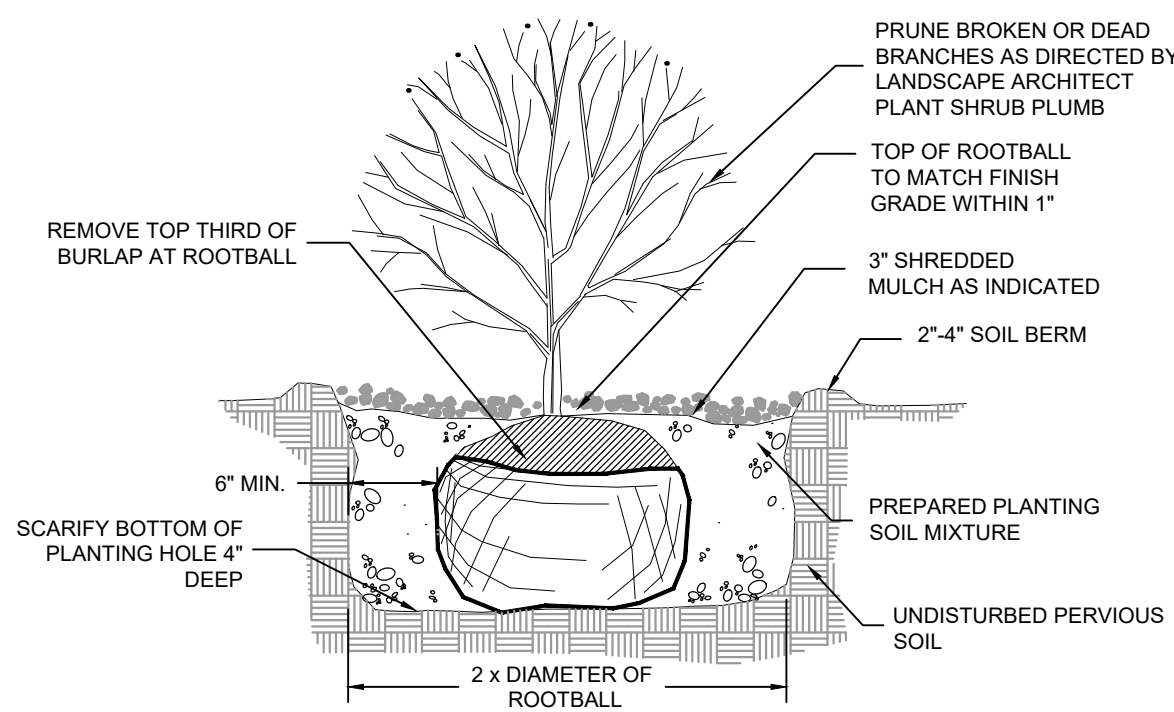


NOTES:  
1. CUT THE FABRIC IN AN "X" SHAPE TO ACCOMMODATE 2 TIMES THE DIAMETER OF THE ROOTBALL.  
2. FOLD FABRIC BACK AND PIN DOWN TO CREATE A HOLE IN THE MAT.  
3. DIG THE HOLE PER PLANTING DETAILS.  
4. AFTER PLANTING, FOLD FABRIC BACK INTO PLACE AND STAPLE DOWN AS REQUIRED TO SECURE FABRIC IN PLACE.

5 PLANTING IN JUTE FABRIC  
NOT TO SCALE



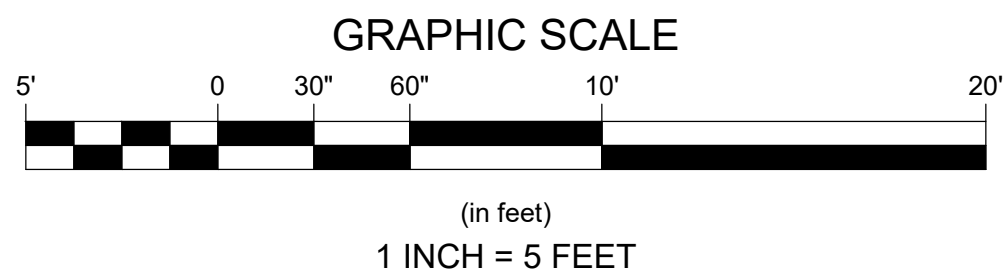
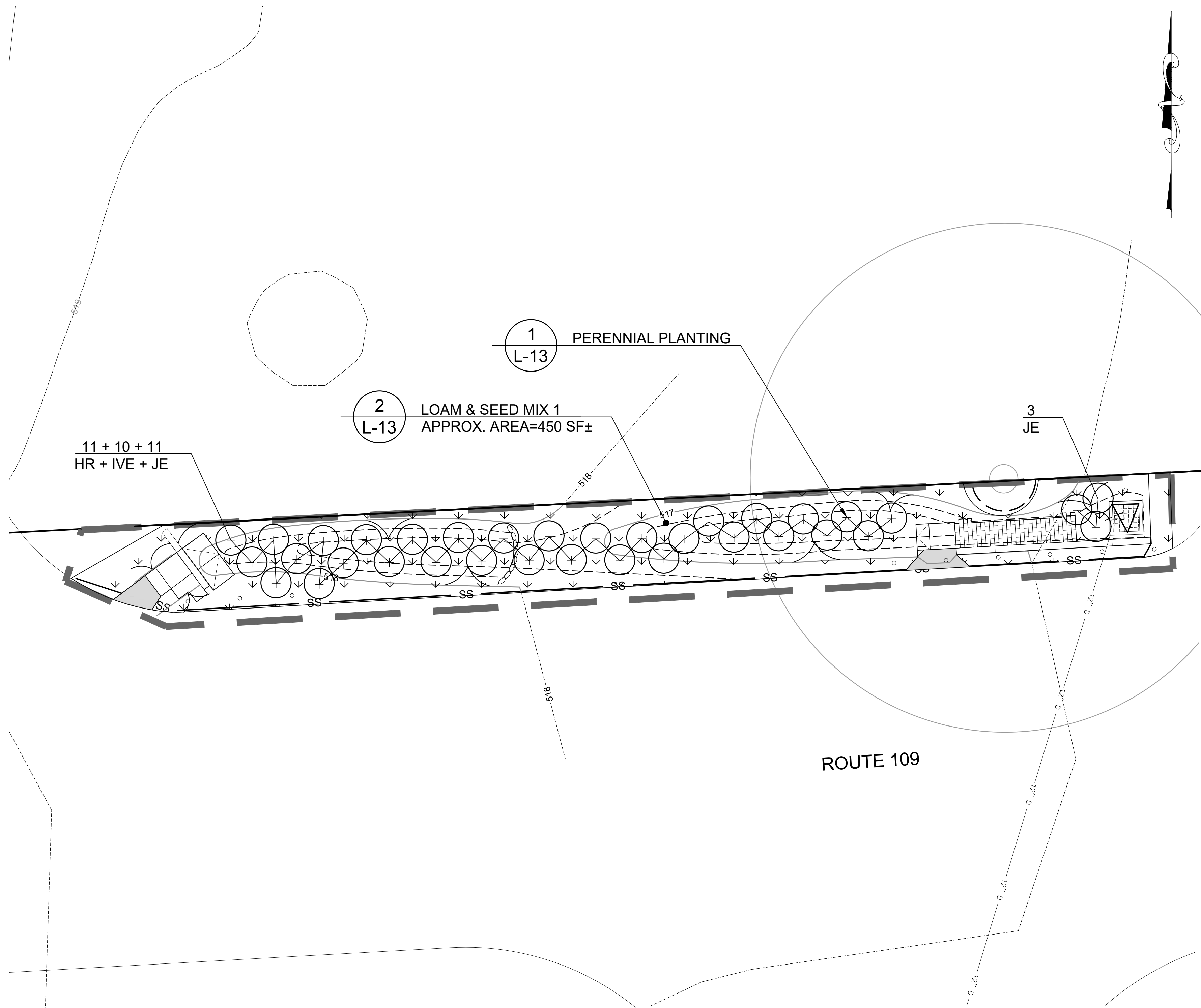
6 CONTAINER PLANT ROOTBALL TREATMENT  
NOT TO SCALE



7 SHRUB PLANTING  
NOT TO SCALE

SITE 1-01B PLANT LIST

Key	Qty.	Botanical Name	Common Name	Size	Spacing
GROUNDCOVERS & PERENNIALS					
CL	3	<i>Chasmanthium latifolium</i>	Northern Sea Oats	#1	36" O.C.
HR	11	<i>Heemerocallis 'Happy Returns'</i>	Daylilies Yellow	#1	30" O.C.
IVE	10	<i>Iris versicolor</i>	Blue Flag	#1	24" O.C.
JE	11	<i>Juncus effusus</i>	Soft Rush	#1	24" O.C.



Revisions

Rev	Date	By	Description
1			
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Horsley Witten Group, Inc.  
Sustainable Environmental Solutions  
www.horsleywitten.com  
90 Route 6A  
Sandwich, MA 02563  
508-833-6600 voice  
508-833-3150 fax

DATE: AUGUST 2020

DESIGNED BY: BA/JMP

DRAWN BY: BA/JMP

CHECKED BY: PAC

Project Number: 19058

Sheet: 13 of 15

Sheet Number: L - 13

Prepared For:  
Lake Winnepesaukee  
Association  
P.O. Box 1524  
Merrifield, NH 03253  
Phone: (603) 581-6632  
Fax: ---

Survey Provided By:  
NOT CONDUCTED. ALL SITE FEATURES  
SHOWN ARE APPROXIMATE ONLY. CONDITIONS HEREON ARE  
BASED UPON DATA FROM THE FOLLOWING SOURCES:  
BASE MAP: LINEWORK & JELLY: DEMOGRAPHIC  
FIELD OBSERVATIONS, FIELD SKETCHES, & GOOGLE EARTH  
PROPERTY LINES:  
APPROXIMATE ONLY. BASED UPON THE LATEST STATE GIS DATA.  
LOCAL DATA AT 2' INTERVALS BASED UPON THE LATEST STATE GIS  
DATA.

Registration:

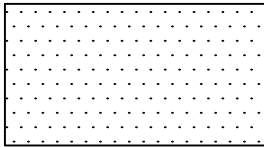
Plan Set:  
MOULTONBOROUGH BAY  
75% DESIGN SUBMISSION  
TUFTONBORO, NH

Plan Title:  
LANDSCAPE PLAN - 1-01B



SITE 1-12 PLANT LIST					
Key	Qty.	Botanical Name	Common Name	Size	Spacing
GROUNDCOVERS & PERENNIALS					
CL	10	Chasmanthium latifolium	Northern Sea Oats	2" Plugs	24" O.C.
IVE	7	Iris versicolor	Blue Flag	2" Plugs	24" O.C.
JE	7	Juncus effusus	Soft Rush	2" Plugs	24" O.C.
SS	9	Schizachyrium scoparium	Little Bluestem	2" Plugs	24" O.C.
SSG	7	Solidago sempervirens	Seaside Goldenrod	2" Plugs	24" O.C.
WF	50	Waldsteinia fragarioides	Barren Strawberry	4" AV	12" O.C.

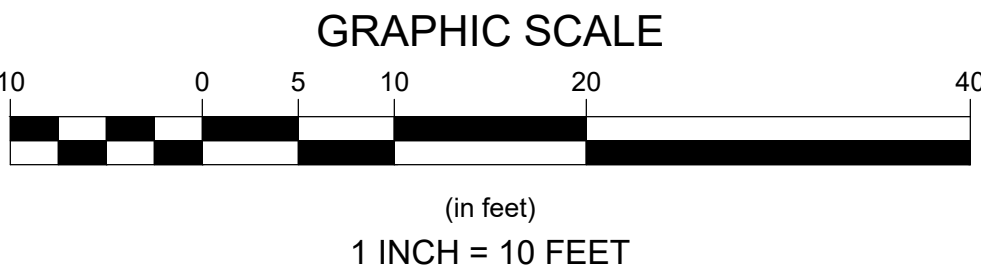
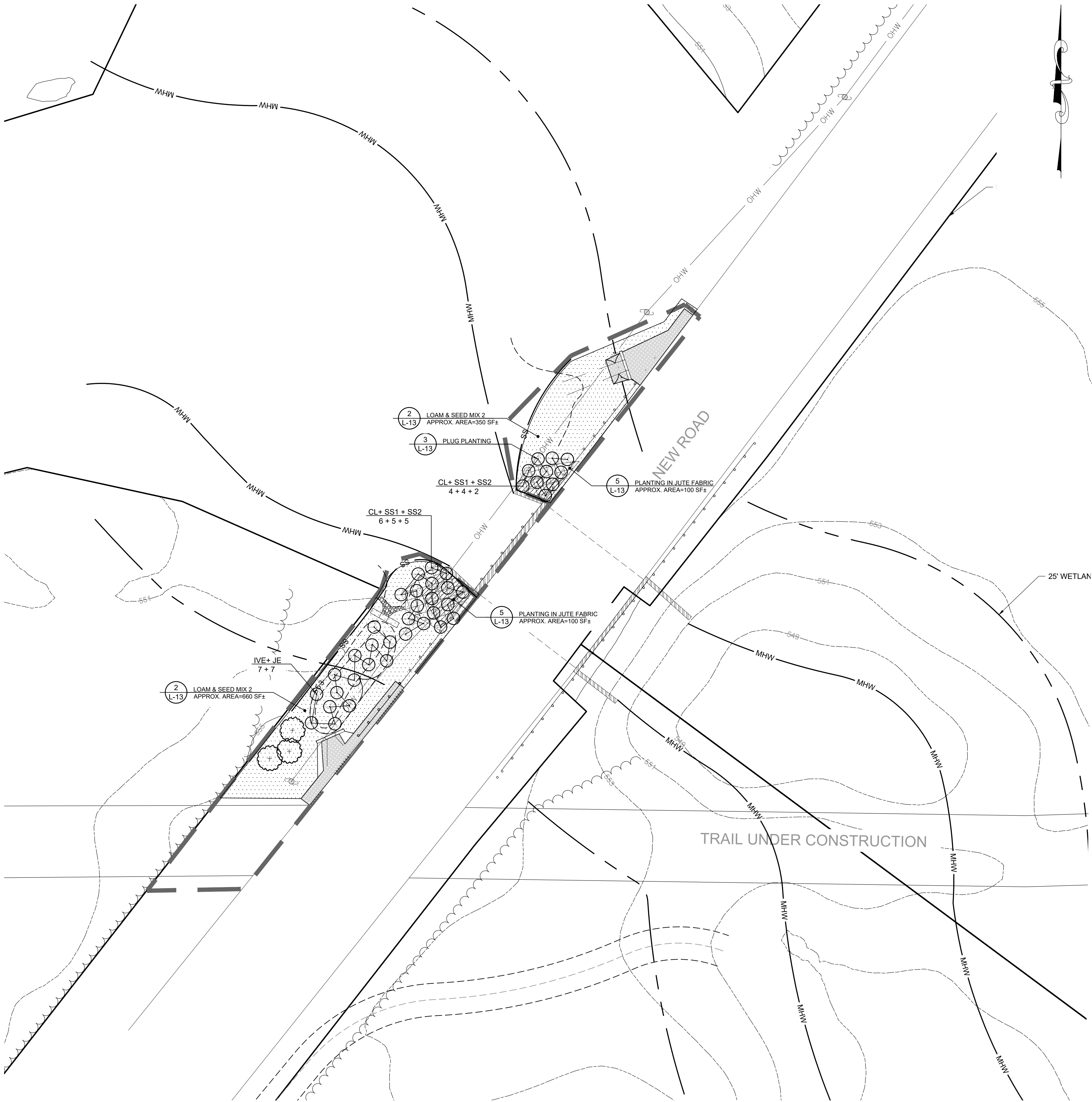
SYMBOL LEGEND:



SEED MIX 2 - MOW AS NEEDED  
COLONIAL SEED - STABILIZER MIX

WAVY HAIR GRASS  
LITTLE BLUESTEM  
BIG BLUESTEM  
UPLAND BENT GRASS  
HARD FESCUES  
CANADA WILD RYE  
SWAN SEDGE  
GOLDENROD  
BUTTERFLY MILKWEED  
LANCE LEAVED COREOPSIS  
PARTRIDGE PEA  
TICK-TREFOIL

OR APPROVED EQUAL



Revisions

Rev	Date	By	Appr	Description
1	---	---	---	---
2	---	---	---	---
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10	---	---	---	---

Horsley Witten Group, Inc.

Sustainable Environmental Solutions

www.horsleywitten.com

80 Route 6A

Sandwich, MA 02563

508-833-6600 voice

508-833-3150 fax

Designed By:

BAU/JMP

Drawn By:

BAL/JMP

Created By:

PAC

Date:

AUGUST 2020

MOULTONBOROUGH BAY

75% DESIGN SUBMISSION

TUFTONBORO, NH

LANDSCAPE PLAN - 1-12

Prepared For:

Lake Winnepesaukee Association

P.O. Box 1824

Meredith, NH 03253

Phone: (603) 581-6632

Fax: ---

Survey Provided By:

NOT CONDUCTED. ALL SITE FEATURES SHOWN ARE APPROXIMATE ONLY. CONDITIONS HEREON ARE BASED UPON DATA FROM THE FOLLOWING SOURCES:  
FIELD OBSERVATIONS, FIELD SKETCHES, & GOOGLE EARTH  
BASE LINES, NEWBORN & LULLY, INCORPORATED  
PROPERTY LINES:  
APPROXIMATE ONLY. BASED UPON THE LATEST STATE GIS DATA.  
LOCAL DATA & INTERVIEWS BASED UPON THE LATEST STATE GIS DATA.

Registration:

Project Number:

19058

Sheet :

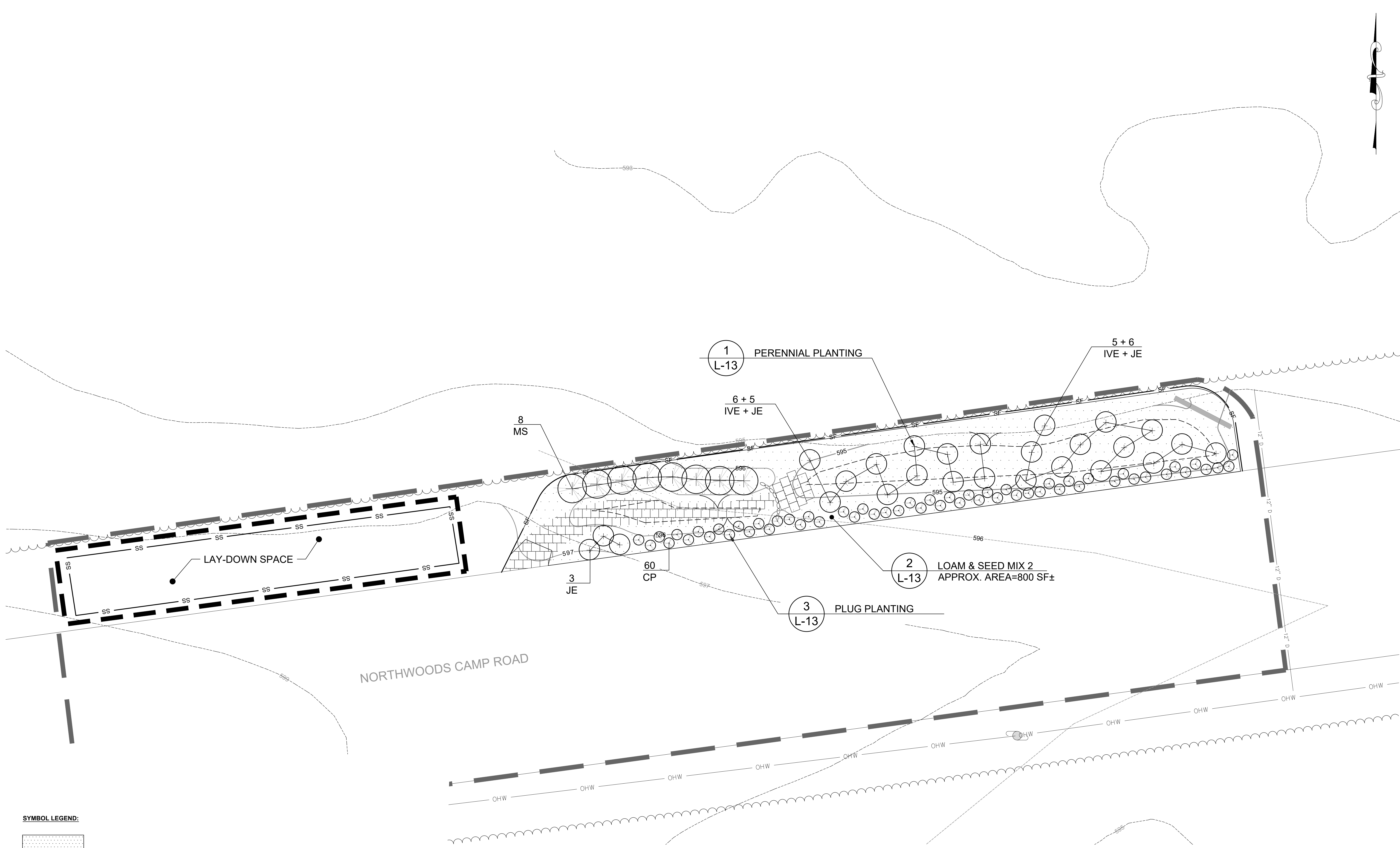
14 of 15

Sheet Number:

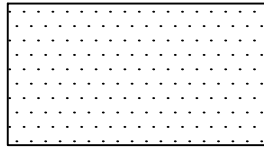
L - 14



last modified: 08/31/20    printed: 09/08/20 by bl    H:\Projects\2019\19058 moultontonborough bay-winter harbor\Drawings\19058 LA.dwg



SYMBOL LEGEND:



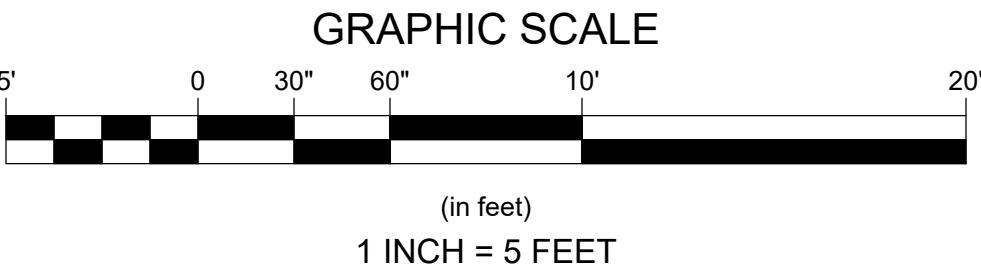
SEED MIX 2 - MOW AS NEEDED  
COLONIAL SEED - STABILIZER MIX

WAVY HAIR GRASS  
LITTLE BLUESTEM  
BIG BLUESTEM  
UPLAND BENT GRASS  
HARD FESCUES  
CANADA WILD RYE  
SWAN SEDGE  
GOLDENROD  
BUTTERFLY MILKWEED  
LANCE LEAVED COREOPSIS  
PARTRIDGE PEA  
TICK-TREFOIL

OR APPROVED EQUAL

SITE 4-05 PLANT LIST

Key	Qty.	Botanical Name	Common Name	Size	Spacing
GROUNDCOVERS & PERENNIALS					
CP	60	Carex pensylvanica	Pennsylvania Sedge	2" Plugs	12" O.C.
IVE	12	Iris versicolor	Blue Flag	#1	24" O.C.
JE	13	Juncus effusus	Soft Rush	#1	24" O.C.
MS	8	Matteuccia struthiopteris	Ostrich Fern	#1	36" O.C.



Revisions

Rev	Date	By	Appr	Description
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

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90 Route 6A

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508-833-6600 voice

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DATE: AUGUST 2020

DESIGNED BY: BAU/JMP

DRAWN BY: BAL/JMP

CHECKED BY: PAC

MOULTONBOROUGH BAY

75% DESIGN SUBMISSION

TUFTONBORO, NH

LANDSCAPE PLAN - 4-07

Prepared For:

Lake Winnepesaukee Association

P.O. Box 1524

Meredith, NH 03253

Phone: (603) 581-6632

Fax: ---

Survey Provided By:

DISCLAIMER: THIS DESIGN WAS NOT CONDUCTED. ALL SITE FEATURES SHOWN ARE APPROXIMATE ONLY. CONDITIONS HEREON ARE BASED UPON DATA FROM THE FOLLOWING SOURCES:  
BASE LINES: LIDAR, AERIAL PHOTOGRAPHS, & GOOGLE EARTH  
FIELD OBSERVATIONS, FIELD SKETCHES, & GOOGLE EARTH  
PROPERTY LINES  
PROXIMITY LINES  
TOPOGRAPHY AND CONTOURS  
LIDAR DATA AT 2' INTERVALS BASED UPON THE LATEST STATE GIS DATA.

Registration:

Project Number:

19058

Sheet :

15 of 15

Sheet Number:

L - 15



Project: Moultonborough Bay BMPs

Location: Site 1-01A - Melvin Village

Submission: 75% Design - Opinion of Probable Cost

Date: 6/8/2020

Estimator: BL Checked By: RAC

GENERAL SITEWORK SITE 1-01A		Unit	Quantity	Unit Cost	Total Cost
<b>EROSION CONTROL</b>					
Temp. Entrance For Truck Traffic & Sediment Control	EA	1	\$	600.00	\$ 600.00
Silt Sock Erosion Control (12")	LF	145	\$	5.00	\$ 725.00
Cleaning and Maintenance of Erosion Controls	LS	1	\$	500.00	\$ 500.00
Inlet Protection	EA	1	\$	250.00	\$ 250.00
<b>Subtotal Erosion Control</b>					<b>\$ 2,075.00</b>
<b>SITE DEMOLITION &amp; CLEARING</b>					
Excavating and Stockpiling Topsoil for Reuse	CY	19	\$	15.00	\$ 284.98
Clear and Grub	SF	2,500	\$	0.50	\$ 1,250.00
<b>Subtotal Site Demolition</b>					<b>\$ 1,600.00</b>
<b>EARTHWORK</b>					
Fine Grading	SF	8,800	\$	0.75	\$ 6,600.00
<b>Subtotal Earthwork</b>					<b>\$ 6,600.00</b>
<b>STORMWATER MANAGEMENT</b>					
Sediment Forebay (Drivable Grass)	SF	240	\$	9.00	\$ 2,160.00
Bioretention Outlet	EA	2	\$	2,000.00	\$ 4,000.00
Stormwater Treatment Area (Excluding Plants)	SF	350	\$	18.00	\$ 6,300.00
Granite Curb Check Dams	LF	35	\$	45.00	\$ 1,575.00
4" Perforated Underdrain	LF	190	\$	5.00	\$ 950.00
Cleanout Ports	EA	3	\$	100.00	\$ 300.00
Natural Checkdams (Reclaimed Boulders/Stones)	EA	2	\$	250.00	\$ 500.00
<b>Subtotal Drainage System</b>					<b>\$ 15,800.00</b>
<b>PAVING &amp; SURFACES</b>					
Formal Parking (Geogrid)	SF	4,000	\$	3.50	\$ 14,000.00
3/4" Gravel @ 3" Depth	CY	37	\$	40.00	\$ 1,481.48
<b>Subtotal Paving &amp; Surfaces</b>					<b>\$ 15,500.00</b>
<b>LANDSCAPE</b>					
Plantings	ALLOW	1	\$	2,500.00	\$ 2,500.00
Seeding	ALLOW	1	\$	1,000.00	\$ 1,000.00
<b>Subtotal Landscape</b>					<b>\$ 3,500.00</b>
<b>ADDITIONAL SITE FURNISHINGS</b>					
Wheelstops	EA	12	\$	300.00	\$ 3,600.00
Signage (Parking)	EA	6	\$	150.00	\$ 900.00
<b>Subtotal Site Furnishings</b>					<b>\$ 4,500.00</b>
<b>Total Material Costs</b>					<b>\$ 38,360.00</b>
<b>Total Labor Costs</b>					<b>\$ 11,155.00</b>
<b>Total Estimated Construction Cost</b>					<b>\$49,515</b>
Contingency			15%		\$7,400
<b>Total Estimated Construction Cost</b>					<b>\$56,915</b>

**Notes & General Assumptions:**

- Opinion of Probable cost is based on 75% Design Plans. All costs are planning level only. Quantities and unit cost are subject to change as the plans are fully developed.
- Mobilization and demobilization costs are not included.
- The contingency is provided for variability in the bidding, project changes and unforeseen conditions
- The following items are not included in the opinion of probable cost
  - Export/disposal of excavated material (Assumes reuse). Assumes no hazardous materials will be found.
  - Provisions for unsuitable soils removal and replacement
  - Site lighting
  - Permitting fees
  - Police /Traffic details



**Project:** Moultonborough Bay BMPs

**Location:** Site 1-01B - Melvin Village

**Submission:** 75% Design - Opinion of Probable Cost

**Date:** 6/8/2020

**Estimator:** BL **Checked By:** RAC

GENERAL SITEWORK SITE 1-01B		Unit	Quantity	Unit Cost	Total Cost
<b>EROSION CONTROL</b>					
Cleaning and Maintenance of Erosion Controls	LS	1	\$	500.00	\$ 500.00
Inlet Protection	EA	1	\$	250.00	\$ 250.00
<b>Subtotal Erosion Control</b>					<b>\$ 750.00</b>
<b>SITE DEMOLITION &amp; CLEARING</b>					
Neatly Sawcut Asphalt	LF	10	\$	4.00	\$ 40.00
Tree Protection Typ.	EA	1	\$	500.00	\$ 500.00
Excavating and Stockpiling Topsoil for Reuse	CY	9.63	\$	15.00	\$ 144.44
Clear and Grub	SF	500	\$	0.50	\$ 250.00
<b>Subtotal Site Demolition</b>					<b>\$ 940.00</b>
<b>EARTHWORK</b>					
Fine Grading	SF	650	\$	0.75	\$ 487.50
<b>Subtotal Earthwork</b>					<b>\$ 490.00</b>
<b>STORMWATER MANAGEMENT</b>					
Sediment Forebay (Drivable Grass)	SF	30	\$	9.00	\$ 270.00
Stormwater Treatment Area (Excluding Plants)	SF	100	\$	18.00	\$ 1,800.00
Vertical Granite Curb	LF	24	\$	45.00	\$ 1,080.00
<b>Subtotal Drainage System</b>					<b>\$ 3,150.00</b>
<b>PAVING &amp; SURFACES</b>					
Pavement Patch (Bit. Pavement)	LS	1	\$	1,500.00	\$ 1,500.00
Granite Cobblestones	SF	20	\$	10.00	\$ 200.00
<b>Subtotal Paving &amp; Surfaces</b>					<b>\$ 1,700.00</b>
<b>LANDSCAPE</b>					
Plantings	ALLOW	1	\$	1,000.00	\$ 1,000.00
Seeding	ALLOW	1	\$	1,000.00	\$ 1,000.00
<b>Subtotal Landscape</b>					<b>\$ 2,000.00</b>
<b>ADDITIONAL SITE FURNISHINGS</b>					
Indicator Rods	EA	9	\$	100.00	\$ 900.00
<b>Subtotal Site Furnishings</b>					<b>\$ 900.00</b>
<b>Total Material Costs</b>					\$ 7,000.00
<b>Total Labor Costs</b>					\$ 2,930.00
<b>Total Estimated Construction Cost</b>					<b>\$9,930</b>
Contingency			15%		\$1,500
<b>Total Estimated Construction Cost</b>					<b>\$11,430</b>

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  - Provisions for unsuitable soils removal and replacement
  - Site lighting
  - Permitting fees
  - Police /Traffic details



**Project:** Moultonborough Bay BMPs

**Location:** New Road Culvert Restoration

**Submission:** Opinion of Probable Cost

**Date:** 8/17/2020

**Estimator:** BL **Checked By:** RAC

GENERAL SITEWORK	Unit	Quantity	Unit Cost	Total Cost
<b>SITE PREPARATION</b>				
Site Mobilization / Demobilization	LS	1	\$ 5,000.00	\$ 5,000.00
<b>Subtotal Site Preparation</b>				\$ 5,000.00
<b>EROSION CONTROL</b>				
Silt Sock Erosion Control (12")	LF	80	\$ 5.00	\$ 400.00
Cleaning and Maintenance of Erosion Controls	LS	1	\$ 500.00	\$ 500.00
<b>Subtotal Erosion Control</b>				\$ 900.00
<b>SITE DEMOLITION</b>				
Excavation and Export of Excess Material	CY	5	\$ 35.00	\$ 175.00
Clear and Grub	SF	1,600	\$ 0.50	\$ 800.00
<b>Subtotal Site Demolition</b>				\$ 980.00
<b>EARTHWORK</b>				
Fine Grading & Soil Amendment	SF	1,600	\$ 0.75	\$ 1,200.00
<b>Subtotal Earthwork</b>				\$ 1,200.00
<b>STORMWATER MANAGEMENT</b>				
Sediment Forebay (Drivable Grass)	SF	150	\$9.00	\$ 1,350.00
Stormwater Treatment Area (Rain Gardens Excluding Plants)	SF	75	\$12.00	\$ 900.00
Granite Curb Check Dams	LF	16	\$45.00	\$ 720.00
Emergency Spillway	EA	1	\$500.00	\$ 500.00
<b>Subtotal Drainage System</b>				\$ 4,470.00
<b>LANDSCAPE</b>				
Plantings	ALLOW	1	\$ 1,500.00	\$ 1,500.00
Seeding	ALLOW	1	\$ 500.00	\$ 500.00
Jute Matting	SY	10	\$ 5.00	\$ 50.00
<b>Subtotal Landscape</b>				\$ 2,050.00
<b>Total Material Costs</b>				\$ 4,770.00
<b>Total Labor Costs</b>				\$ 9,125.00
<b>Total Estimated Construction Cost</b>				<b>\$14,600</b>
		Contingency	15%	\$2,200
<b>Total Estimated Construction Cost</b>				<b>\$16,800</b>

**Notes & General Assumptions:**

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- The following items are not included in the opinion of probable cost
  - Export/disposal of excavated material (Assumes reuse). Assumes no hazardous materials will be found.
  - Provisions for unsuitable soils removal and replacement
  - Site lighting
  - Permitting fees
  - Police /Traffic details



**Project:** Moultonborough Bay BMPs

**Location:** Site 4-07 - Northwoods Rain Garden

**Submission:** Opinion of Probable Cost

**Date:** 7/20/2020

**Estimator:** BL **Checked By:** RAC

GENERAL SITEWORK	Unit	Quantity	Unit Cost	Total Cost
<b>SITE PREPARATION</b>				
Site Mobilization / Demobilization	LS	1	\$ 1,000.00	\$ 1,000.00
<b>Subtotal Site Preparation</b>				<b>\$ 1,000.00</b>
<b>EROSION CONTROL</b>				
Temp. Entrance For Truck Traffic & Sediment Control	EA	1	\$ 600.00	\$ 600.00
Silt Sock Erosion Control (12")	LF	100	\$ 5.00	\$ 500.00
Silt Fence (Install & Removal)	LF	100	\$ 6.00	\$ 600.00
Cleaning and Maintenance of Erosion Controls	LS	1	\$ 1,000.00	\$ 1,000.00
<b>Subtotal Erosion Control</b>				<b>\$ 2,700.00</b>
<b>SITE DEMOLITION</b>				
Excavation and Export of Excess Material	CY	33	\$ 35.00	\$ 1,166.67
Clear and Grub	SF	1,000	\$ 0.50	\$ 500.00
<b>Subtotal Site Demolition</b>				<b>\$ 1,670.00</b>
<b>EARTHWORK</b>				
Fine Grading & Soil Amendment	SF	1,000	\$ 0.75	\$ 750.00
<b>Subtotal Earthwork</b>				<b>\$ 800.00</b>
<b>STORMWATER MANAGEMENT</b>				
Sediment Forebay (Drivable Grass)	SF	75	\$9.00	\$ 675.00
Stormwater Treatment Area (Rain Gardens Excluding Plants)	SF	160	\$12.00	\$ 1,920.00
Natural Checkdams (Reclaimed Boulders/Stones)	EA	1	\$250.00	\$ 250.00
Emergency Spillway	EA	1	\$500.00	\$ 500.00
<b>Subtotal Drainage System</b>				<b>\$ 4,350.00</b>
<b>PAVING &amp; SURFACES</b>				
Jute Matting	SF	500	\$ 2.50	\$ 1,250.00
Compacted Earth Berm (Reuse Excavated Material)	LF	50	\$ 5.00	\$ 250.00
<b>Subtotal Paving &amp; Surfaces</b>				<b>\$ 1,500.00</b>
<b>LANDSCAPE</b>				
Plantings	ALLOW	1	\$ 1,000.00	\$ 1,000.00
Seeding	ALLOW	1	\$ 1,000.00	\$ 1,000.00
<b>Subtotal Landscape</b>				<b>\$ 2,000.00</b>
<b>TOTAL MATERIAL COSTS</b>				<b>\$ 6,110.00</b>
<b>TOTAL LABOR COSTS</b>				<b>\$ 5,751.67</b>

<b>Total Estimated Construction Cost</b>		<b>\$14,020</b>
Contingency	15%	\$2,100
<b>Total Estimated Construction Cost</b>		<b>\$16,120</b>

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  - Permitting fees