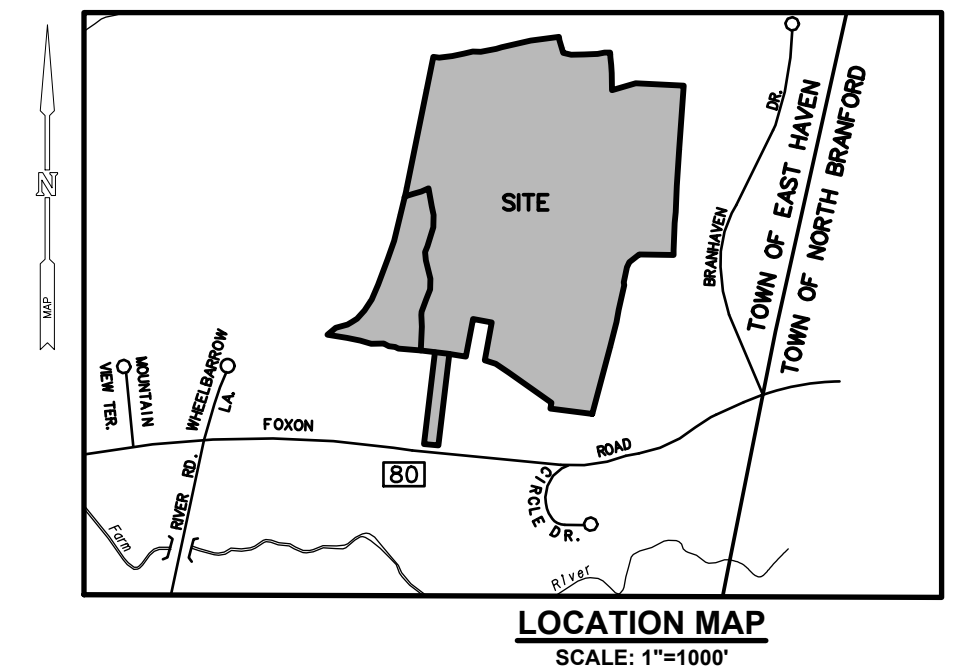


THE BLUFFS MULTIFAMILY ELDERLY HOUSING

31 AND 100 SPERRY LANE AND 161 FOXON ROAD
EAST HAVEN, CONNECTICUT



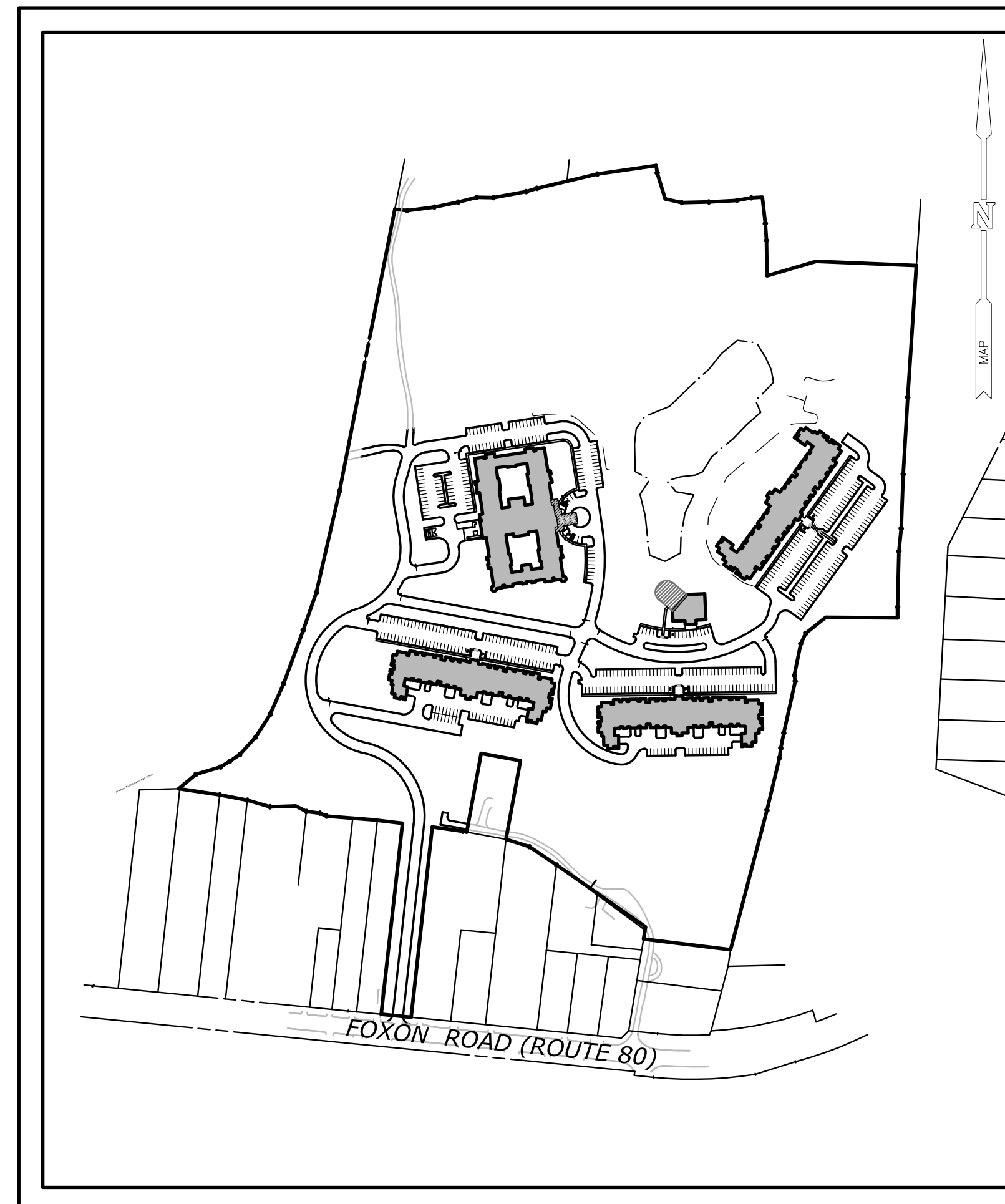
GENERAL NOTES

- BOUNDARY AND TOPOGRAPHIC INFORMATION IS BASED UPON FIELD SURVEY CONDUCTED BY MILONE & MACBROOM, INC. NORTH REFERS TO THE CONNECTICUT COORDINATE SYSTEM (NAD 1983). ELEVATIONS REFER TO THE NAVD88 VERTICAL DATUM. SEE PROPERTY SURVEY SHEET FOR MORE INFORMATION.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION, MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CALL "CALL BEFORE YOU DIG", 1-800-922-4455. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- SLR INTERNATIONAL CORPORATION ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- ALL UTILITY SERVICES ARE TO BE UNDERGROUND. THE EXACT LOCATION AND SIZE OF ELECTRIC, TELEPHONE, CABLE TELEVISION AND GAS ARE TO BE DETERMINED BY THE RESPECTIVE UTILITY COMPANIES.
- EXISTING EASEMENTS IN FAVOR OF SNET TO BE RELOCATED OR RELEASED TO ACCOMMODATE PROPOSED DEVELOPMENT. THESE CHANGES ARE TO BE COORDINATED WITH SNET OR THE CURRENT EASEMENT OWNER PRIOR TO THE START OF CONSTRUCTION.
- EXISTING EASEMENTS ALONG SPERRY LANE FOR ACCESS AND OTHER RIGHTS TO 201 AND 245 SPERRY LANE ALONG WITH ANY OTHER PROPERTIES HAVING RIGHTS OVER SPERRY LANE ARE TO BE RELOCATED TO THE NEW PROPOSED ACCESS ROAD ALIGNMENT. OTHER RIGHTS MAY NEED TO BE CONFIRMED AS PART OF THIS PROCESS. ACCESS TO THESE PROPERTIES MUST BE MAINTAINED DURING CONSTRUCTION.
- RIGHTS OF EMERGENCY ACCESS OVER THE SITE GENERALLY ALONG THE EXISTING SPERRY LANE ARE TO BE RELOCATED TO FOLLOW THE PROPOSED ROAD ACCESS RE-ALIGNMENT FOR THE PROJECT. THE EMERGENCY ACCESS TO THE EAST HAVEN HIGH SCHOOL PROPERTY IS TO BE MAINTAINED DURING CONSTRUCTION.
- RIGHTS TO CONNECT STORM DRAINAGE PIPING FROM THE SITE TO EAST HAVEN HIGH SCHOOL PROPERTY ARE TO BE ACQUIRED AS PART OF THE PROJECT.
- ALL DISTURBED AREAS SHALL RECEIVE A MINIMUM OF 6" TOPSOIL, AND BE SEEDED WITH GRASS OR SODDED, AS SHOWN ON THE PLANS.
- ALL PROPOSED CONTOURS AND SPOT ELEVATIONS INDICATE FINISHED GRADE.
- ALL GRAVITY SANITARY SEWER PIPE SHALL BE PVC SDR35 UNLESS OTHERWISE INDICATED. PROPOSED CONNECTIONS TO EXISTING SANITARY STRUCTURES SHALL BE IN ACCORDANCE WITH GNHWPCA STANDARDS. ANY SANITARY PIPE WITHIN CITY ROW SHALL BE EITHER DUCTILE IRON OR CAST IRON PER GNHWPCA STANDARDS.
- THE PROPOSED BUILDINGS ARE TO BE SERVED BY PUBLIC WATER AND SANITARY SEWER.
- COMPLIANCE WITH THE PERMIT CONDITIONS IS THE RESPONSIBILITY OF BOTH THE CONTRACTOR AND THE PERMITTEE.
- THE PROPERTY IS DESIGNATED AS ZONE X ON THE FEMA FLOOD INSURANCE RATE MAP, NEW HAVEN COUNTY, CONNECTICUT (ALL JURISDICTIONS), PANEL 454 OF 635, MAP NUMBER 09009C0454H, EFFECTIVE DATE: DECEMBER 17, 2010.
- PLANS PREPARED FOR REGULATORY APPROVAL ONLY.

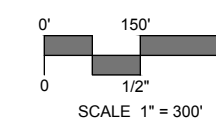
EROSION CONTROL NOTES CONTRACTOR RESPONSIBILITIES

- SEDIMENT AND EROSION CONTROLS SHALL BE INSPECTED AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL AMOUNT OF 0.5 INCH OR GREATER. A LOG OF SUCH INSPECTIONS SHALL BE MAINTAINED AT THE SITE.
- THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MODIFIED BY THE CONTRACTOR AT THE DIRECTION OF THE ENGINEER AND THE TOWN'S DESIGNATED REPRESENTATIVE AS NECESSITATED BY CHANGING SITE CONDITIONS.
- INSPECTION OF THE SITE FOR EROSION SHALL CONTINUE FOR A PERIOD OF THREE MONTHS AFTER COMPLETION WHEN RAINFALLS OF ONE INCH OR MORE OCCUR.
- ALL DEWATERING WASTE WATERS SHALL BE DISCHARGED IN A MANNER WHICH MINIMIZES THE DISCOLORATION OF THE RECEIVING WATERS.
- THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND BUILDING MATERIALS SUCH THAT NONE OF THE ABOVE ENTER WATERS OR WETLANDS.
- A COPY OF ALL PLANS AND REVISIONS, AND THE SEDIMENT AND EROSION CONTROL PLAN SHALL BE MAINTAINED ON-SITE AT ALL TIMES DURING CONSTRUCTION.
- ALL CATCH BASIN SUMPS SHOULD BE INSPECTED AFTER CONSTRUCTION COMPLETION AND SEDIMENT REMOVED. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED LOCATION.
- SEDIMENT AND EROSION CONTROL INSPECTIONS BY ENGINEER OR CPESC EVERY 2 WEEKS. REPORTS TO BE SUBMITTED TO THE TOWN OF FARMINGTON.
- TEMPORARY SEDIMENT TRAPS SHALL BE DESIGNED PRIOR TO CONSTRUCTION.

MAY 2, 2022



PROJECT SITE VICINITY MAP:



PROJECT DATA:

AREA:	50.957 ACRES
EXISTING ZONE:	PEFD
PROPOSED USE:	AFFORDABLE HOUSING DEVELOPMENT

ZONING DATA:

	REQUIRED	PROPOSED
MIN LOT AREA	19.21 ACRES	50.957 ACRES
MIN FRONTAGE	50'	60'
FRONT SETBACK	49' (30'+1' OF BUILDING HEIGHT OVER 30')	>49'
REAR SETBACK	49' (30'+1' OF BUILDING HEIGHT OVER 30')	>49'
SIDE SETBACK	49' (30'+1' OF BUILDING HEIGHT OVER 30')	>49'
MAX LOT COVERAGE	8%	7.5%
MAX BUILDING HEIGHT	3 STORIES OF LIVABLE AREA	3 STORIES OF LIVABLE AREA ABOVE FINISHED GRADE
PARKING SPACES	473*	568

* (90 2-BEDROOM UNITS * 2.5 PARKING SPACES) + (144 1-BEDROOM UNITS * 1.5 PARKING SPACES) + (64 ASSISTED LIVING UNITS * 0.5 PARKING SPACES) = 473 PARKING SPACES

MAX DENSITY (SITES 26 TO 50 ACRES)				
	MINIMUM AREA PER UNIT	NUMBER OF UNITS	REQUIRED AREA	PROVIDED AREA
EFFICIENCY UNITS	2,000 SF	0	0	
ONE BEDROOM UNITS	2,500 SF	144	8.26 ACRES	
TWO BEDROOM UNITS	3,000 SF	90	6.20 ACRES	
		TOTAL	14.46 ACRES	50.957 ACRES

MAX DENSITY (ASSISTED LIVING UNITS)				
	MINIMUM AREA PER UNIT	NUMBER OF UNITS	REQUIRED AREA	PROVIDED AREA
EFFICIENCY UNITS	2,500 SF	0	0	
ONE BEDROOM UNITS	3,000 SF	54	3.72 ACRES	
TWO BEDROOM UNITS	4,500 SF	10	1.03 ACRES	
		TOTAL	4.75 ACRES	50.957 ACRES

LIST OF DRAWINGS

NO.	NAME	TITLE
01		TITLE
02	EX	SITE PLAN - EXISTING CONDITIONS & REMOVALS PLAN
03	IN	INDEX AND OVERALL SITE PLAN
04	LA-1	SITE PLAN - LAYOUT AND LANDSCAPING
05	LA-2	SITE PLAN - LAYOUT AND LANDSCAPING
06	LA-3	SITE PLAN - LAYOUT AND LANDSCAPING
07	LA-4	SITE PLAN - LAYOUT AND LANDSCAPING
08	GU-1	SITE PLAN - GRADING AND UTILITIES
09	GU-2	SITE PLAN - GRADING AND UTILITIES
10	GU-3	SITE PLAN - GRADING AND UTILITIES
11	GU-4	SITE PLAN - GRADING AND UTILITIES
12	SE-1	SEDIMENT AND EROSION CONTROL PLAN
13	SE-2	SEDIMENT AND EROSION CONTROL PLAN
14	SD-1	SITE DETAILS
15	SD-2	SITE DETAILS
16	SD-3	SITE DETAILS
17	SD-4	SITE DETAILS
18	SD-5	SITE DETAILS
19	SD-6	SITE DETAILS

PREPARED FOR:

THE BLUFFS, LLC
218 FOXON ROAD
EAST HAVEN, CT 06512

PREPARED BY:



Know what's below.
Call before you dig.
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LAYOUT NOTES

- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- FOR DETAILED INFORMATION PERTAINING TO PROPOSED BUILDINGS AND ASSOCIATED ARCHITECTURAL WALLS REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH EXISTING LINE AND GRADE.
- THE CONTRACTOR IS REQUIRED TO PAINT ALL PAVEMENT MARKINGS SHOWN ON PLANS INCLUDING PARKING SPACE LINES, CROSSWALKS, HANDICAPPED SYMBOLS, STOP BARS, AND ALL MARKINGS REQUIRED BY LOCAL TOWN OF EAST HAVEN REGULATIONS.
- ALL PARKING SPACE LINES TO BE STRIPED WITH 4" WIDE, WHITE, NON-REFLECTIVE PAINT.
- PROVIDE 12" WIDE WHITE PAINTED STOP BAR AT ALL STOP SIGN LOCATIONS.

PLANTING NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATING PLANT PITS.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 6" MINIMUM DEPTH OF TOPSOIL FOR ALL LAWN AREAS. WATER AS NECESSARY TO ESTABLISH TURF.
- ALL PLANTING BEDS SHALL HAVE 12" MINIMUM DEPTH OF TOPSOIL.
- THE LANDSCAPE CONTRACTOR SHALL PROVIDE A 4" MIN. DEPTH OF SHREDDED MULCH OVER ALL PLANTING BEDS AND TREE PLANTINGS. NO DYED MULCH.
- ALL PLANT MATERIAL IS SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO AND AFTER PLANTING.
- PLANT SPECIES MAY BE ADJUSTED BASED ON AVAILABILITY AT TIME OF PLANTING. ALL PLANT MATERIAL SUBSTITUTIONS ARE SUBJECT TO REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS SHALL CARRY A FULL GUARANTEE FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE, TO INCLUDE PROMPT TREATMENT OR REMOVAL AND REPLACEMENT OF ANY PLANTS FOUND TO BE IN AN UNHEALTHY CONDITION BY THE LANDSCAPE ARCHITECT. ALL REPLACEMENTS SHALL BE OF THE SAME KIND AND SIZE OF PLANTS SPECIFIED IN THE PLANT LIST.
- MAINTENANCE SHALL BEGIN IMMEDIATELY AFTER PLANTING AND SHALL CONTINUE UNTIL ACCEPTANCE BY THE LANDSCAPE ARCHITECT. MAINTENANCE SHALL INCLUDE WATERING, MULCHING, TIGHTENING & REPLACING OF GUYS, REPLACEMENT OF SICK OR DEAD PLANTS, RESETTling PLANTS TO PROPER GRADE OR UPRIGHT (PLUMB) POSITION, RESTORATION OF SAUCERS, AND ALL OTHER CARE NEEDED FOR PROPER GROWTH OF THE PLANTS.
- WHERE A SIZE RANGE IS SPECIFIED AT LEAST 50% OF PLANTS PROVIDED SHALL BE OF THE LARGER SIZE.
- CONTRACTOR TO REMOVE TREE STAKES AFTER ONE GROWING SEASON.
- QUANTITY AND PLACEMENT OF PLANTS ARE APPROXIMATE AND ARE SUBJECT TO FINAL PLACEMENT IN THE FIELD BY THE OWNER.

PROPOSED FOUNDATION PLANT PALETTE

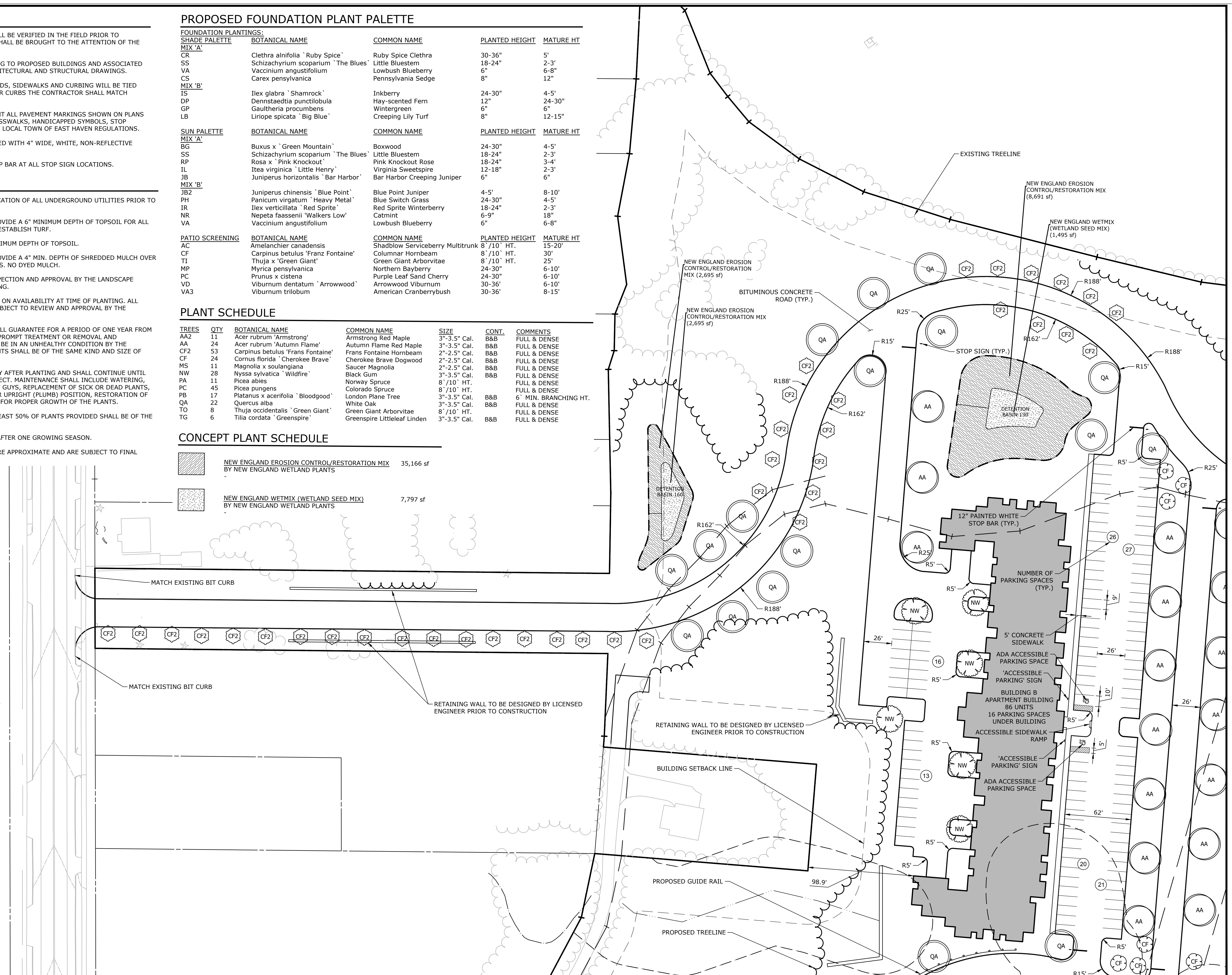
FOUNDATION PLANTINGS:				
SHADE PALETTE	BOTANICAL NAME	COMMON NAME	PLANTED HEIGHT	MATURE HT
MIX 'A'				
CR	Clethra alnifolia 'Ruby Spice'	Ruby Spice Clethra	30-36"	5'
SS	Schizachyrium scoparium 'The Blues'	Little Bluestem	18-24"	2-3'
VA	Vaccinium angustifolium	Lowbush Blueberry	6"	6-8"
CS	Carex pensylvanica	Pennsylvania Sedge	8"	12"
MIX 'B'				
IS	Ilex glabra 'Shamrock'	Inkberry	24-30"	4-5'
DP	Denstaedtia punctilobula	Hay-scented Fern	12"	24-30"
GP	Gaultheria procumbens	Wintergreen	6"	6"
LB	Liriope spicata 'Big Blue'	Creeping Lily Turf	8"	12-15"
SUN PALETTE				
MIX 'A'				
BG	Buxus x 'Green Mountain'	Boxwood	24-30"	4-5'
SS	Schizachyrium scoparium 'The Blues'	Little Bluestem	18-24"	2-3'
RP	Rosa x 'Pink Knockout'	Pink Knockout Rose	18-24"	3-4'
IL	Itea virginica 'Little Henry'	Virginia Sweetpire	12-18"	2-3'
JB	Juniperus horizontalis 'Bar Harbor'	Bar Harbor Creeping Juniper	6"	6"
MIX 'B'				
JB2	Juniperus chinensis 'Blue Point'	Blue Point Juniper	4-5'	8-10'
PH	Panicum virgatum 'Heavy Metal'	Blue Switch Grass	24-30"	4-5'
IR	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry	18-24"	2-3'
NR	Nepeta faassenii 'Walkers Low'	Catmint	6-9"	18"
VA	Vaccinium angustifolium	Lowbush Blueberry	6"	6-8"
PATIO SCREENING				
AC	Amelanchier canadensis	Shadblow Serviceberry Multitrunk	8' /10' HT.	15-20'
CF	Carpinus betulus 'Franz Fontaine'	Columnar Hornbeam	8' /10' HT.	30'
TI	Thuja x 'Green Giant'	Green Giant Arborvitae	8' /10' HT.	25'
MP	Myrica pensylvanica	Northern Bayberry	24-30"	6-10'
PC	Prunus x cistena	Purple Leaf Sand Cherry	24-30"	6-10'
VD	Viburnum dentatum 'Arrowwood'	Arrowwood Viburnum	30-36"	6-10'
VA3	Viburnum trilobum	American Cranberrybush	30-36"	8-15'

PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	CONT.	COMMENTS
AA2	11	Acer rubrum 'Armstrong'	Armstrong Red Maple	3"-3.5" Cal.	B&B	FULL & DENSE
AA	24	Acer rubrum 'Autumn Flame'	Autumn Flame Red Maple	3"-3.5" Cal.	B&B	FULL & DENSE
CF2	53	Carpinus betulus 'Frans Fontaine'	Frans Fontaine Hornbeam	2"-2.5" Cal.	B&B	FULL & DENSE
CF	24	Cornus florida 'Cherokee Brave'	Cherokee Brave Dogwood	2"-2.5" Cal.	B&B	FULL & DENSE
MS	11	Magnolia x soulangiana	Saucer Magnolia	2"-2.5" Cal.	B&B	FULL & DENSE
NW	28	Nyssa sylvatica 'Wildfire'	Black Gum	3"-3.5" Cal.	B&B	FULL & DENSE
PA	11	Picea abies	Norway Spruce	8' /10' HT.		FULL & DENSE
PC	45	Picea pungens	Colorado Spruce	8' /10' HT.		FULL & DENSE
PB	17	Platanus x acerifolia 'Bloodgood'	London Plane Tree	3"-3.5" Cal.	B&B	6" MIN. BRANCHING HT.
QA	22	Quercus alba	White Oak	3"-3.5" Cal.	B&B	FULL & DENSE
TO	8	Thuja occidentalis 'Green Giant'	Green Giant Arborvitae	8' /10' HT.		FULL & DENSE
TG	6	Tilia cordata 'Greenspire'	Greenspire Littleleaf Linden	3"-3.5" Cal.	B&B	FULL & DENSE

CONCEPT PLANT SCHEDULE

	NEW ENGLAND EROSION CONTROL/RESTORATION MIX BY NEW ENGLAND WETLAND PLANTS	35,166 sf
	NEW ENGLAND WETMIX (WETLAND SEED MIX) BY NEW ENGLAND WETLAND PLANTS	7,797 sf



98 REALTY DRIVE
SUITE 200
06110
SLRCONSULTING.COM

DATE	BY	DESCRIPTION

SITE PLAN - LAYOUT AND LANDSCAPING

THE BLUFFS
MULTIFAMILY ELDERLY HOUSING
31 AND 100 SPERRY LANE AND 161 FOXON ROAD
EAST HAVEN, CONNECTICUT

JRH	JRH	DLO
DESIGNED	DRAWN	CHECKED

SCALE: 1"=40'

DATE: MAY 2, 2022

PROJECT NO.: 5956-01

SHEET NO.: 04 OF 19

LA-1

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STORMWATER MAINTENANCE PROGRAM

UPON SITE DEVELOPMENT, THERE WILL BE A NEED TO PERIODICALLY MAINTAIN STORMWATER SYSTEMS ON THE PROPERTY TO ENSURE OPTIMAL PERFORMANCE OF THE SYSTEM. THE PROPERTY OWNER WILL BE RESPONSIBLE FOR IMPLEMENTATION OF THIS PROGRAM. A LOG OF ALL INSPECTIONS, CLEANING AND REPAIRS SHALL BE MAINTAINED BY THE PROPERTY OWNER AND BE AVAILABLE FOR REVIEW. THE FOLLOWING STORMWATER MAINTENANCE PROGRAM SHOULD BE FOLLOWED:

A. CATCH BASINS/YARD DRAINS

CATCH BASINS ARE DESIGNED WITH 2-FOOT MINIMUM DEPTH SUMPS FOR THE PURPOSE OF COLLECTING COARSE SEDIMENT. ALL CATCH BASINS SHOULD BE INSPECTED TWO TIMES PER YEAR, TYPICALLY WHEN THE SITE IS SWEEPED IN THE SPRING AFTER WINTER SANDING AND IN THE FALL AFTER ALL THE LEAVES HAVE FALLEN. SITE SWEEPING SHALL BE PROVIDED BETWEEN APRIL 15 AND MAY 15 EACH SPRING.

SEDIMENT SHOULD BE REMOVED WHEN IT EXTENDS TO WITHIN 6 INCHES OF THE OUTLET PIPE INVERT OR NOT LESS THAN ONCE PER YEAR. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE BEST AND MOST CONVENIENT METHOD. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS.

B. PAVEMENT SWEEPING

THE PARKING AREA AND ROADWAY SHALL BE SWEEPED ANNUALLY. SWEEPING SHOULD OCCUR IN THE SPRING AFTER WINTER SANDING, BETWEEN APRIL 15 AND MAY 15. SALT ALTERNATIVES SHALL BE USED DURING WINTER MONTHS FOR DEICING.

C. STORMWATER BASINS

MOWING: THE UPPER STAGE, SIDE SLOPES, AND EMBANKMENT OF STORMWATER PONDS MUST BE MOWED AT LEAST ONCE PER YEAR TO DISCOURAGE WOODY GROWTH AND CONTROL WEEDS.

INSPECTIONS: BASINS SHOULD BE INSPECTED TWICE PER YEAR (SPRING AND FALL) TO ENSURE THAT THE STRUCTURE OPERATES IN THE MANNER ORIGINALLY INTENDED. WHEN POSSIBLE, INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES PER APPROVED DESIGN. IN PARTICULAR, THE OUTLET CONTROL DEVICE SHOULD BE REGULARLY INSPECTED FOR EVIDENCE OF CLOGGING OR, CONVERSELY, FOR TOO RAPID A RELEASE, AND THE FLOW PATH SHOULD BE CHECKED FOR EROSION PROBLEMS. OTHER PROBLEMS THAT SHOULD BE CHECKED FOR INCLUDE SUBSIDENCE, OUTLET WATER TURBIDITY, BANK/OUTLET EROSION, CRACKING, OR TREE GROWTH ON THE EMBANKMENT; THE ACCUMULATION OF SEDIMENT AROUND THE OUTLET; THE ADEQUACY OF UPSTREAM/DOWNSTREAM CHANNEL EROSION CONTROL MEASURES; AND MODIFICATIONS TO THE BASIN OR ITS CONTRIBUTING WATERSHED THAT MAY IMPROVE BASIN PERFORMANCE. INSPECTIONS SHOULD BE CARRIED OUT WITH DESIGN PLANS IN HAND.

DEBRIS AND LITTER REMOVAL: DEBRIS AND LITTER WILL ACCUMULATE NEAR THE OUTLET CONTROL DEVICE AND SHOULD BE REMOVED DURING REGULAR INSPECTION AND/OR MOWING OPERATIONS. PARTICULAR ATTENTION SHOULD BE PAID TO FLOATABLE DEBRIS THAT COULD EVENTUALLY CLOG THE CONTROL DEVICE OR RISER.

SEDIMENT REMOVAL: WHEN PROPERLY DESIGNED, DETENTION/WATER QUALITY BASINS WILL ACCUMULATE SEDIMENT OVER TIME. HOWEVER, MOST OF THE SEDIMENT WILL BE TRAPPED IN THE SEDIMENT CHAMBERS AND CATCH BASIN SUMP UNITS BEFORE REACHING THE BASIN. THE REMAINDER WILL ACCUMULATE IN THE STORMWATER POND. ACCUMULATED SEDIMENT MUST BE REMOVED FROM THE BASIN EVERY 5 YEARS AFTER ONE HALF (1/2) OF THE SEDIMENT STORAGE CAPACITY IN THE FOREBAY HAS BEEN FILLED, AFTER 4 INCHES OF SEDIMENT HAS ACCUMULATED IN THE MAIN PORTION OF THE BASIN, OR WHEN SIGNIFICANT ALGAL GROWTH IS OBSERVED. A PERMANENT MEASURING DEVICE SHALL BE INSTALLED IN THE MIDDLE OF EACH FOREBAY AND IN THE MAIN PORTION OF THE BASIN. THE MARKER SHALL DELINEATE INCHES UP FROM THE BOTTOM OF THE BASIN SO THE DEPTH OF SEDIMENT CAN EASILY BE MEASURED. MORE FREQUENT SPOT CLEANOUTS MAY BE NEEDED AROUND THE OUTLET CONTROL DEVICE OR THE SEDIMENT FOREBAY. SEDIMENT REMOVAL OPERATIONS ARE RELATIVELY SIMPLE. FRONT-END LOADERS, BACKHOES, OR VACUUM TRUCKS CAN BE USED TO REMOVE THE ACCUMULATED SEDIMENT FOLLOWED BY MANUAL REMOVAL OF SEDIMENT DEPOSITED AROUND THE OUTLET CONTROL DEVICE. THE SEDIMENT SHALL BE DISPOSED OF IN AN APPROVED OFF-SITE LOCATION IN ACCORDANCE WITH TOWN AND STATE REQUIREMENTS. THE DISTURBED AREA SHOULD BE IMMEDIATELY SEEDED WITH APPROPRIATE GRASS SEED AND MULCHED WITH HAY AFTER REMOVAL OPERATIONS ARE COMPLETED TO PREVENT THE OUTLET CONTROL DEVICE FROM CLOGGING.

D. UNDERGROUND DETENTION SYSTEMS

UNDERGROUND DETENTION SYSTEMS SHALL BE INSPECTED QUARTERLY AND SEDIMENT SHALL BE REMOVED AS NEEDED TO ENSURE PROPER FUNCTIONING OF STRUCTURES. AREAS OF DISTURBANCE THAT MAY BE AS A RESULT OF CLEANING SHALL BE SEEDED AND PLANTED IN ACCORDANCE WITH THE ORIGINAL PLANTING PLAN. THESE STRUCTURES WILL BE MAINTAINED YEARLY, OR MORE FREQUENTLY AS REQUIRED. WASTE MATERIAL WILL BE PROPERLY DISPOSED OF OFF-SITE.

ISOLATOR ROW

THE ISOLATOR ROWS INTEGRATED TO THE STORMWATER CHAMBERS SYSTEMS SHOULD BE MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. A COPY OF THE STORMTECH "ISOLATOR ROW O&M MANUAL" IS INCLUDED IN THE ENGINEERING REPORT. AT A MINIMUM, THE MAINTENANCE SCHEDULE SHOULD INCLUDE THE FOLLOWING:

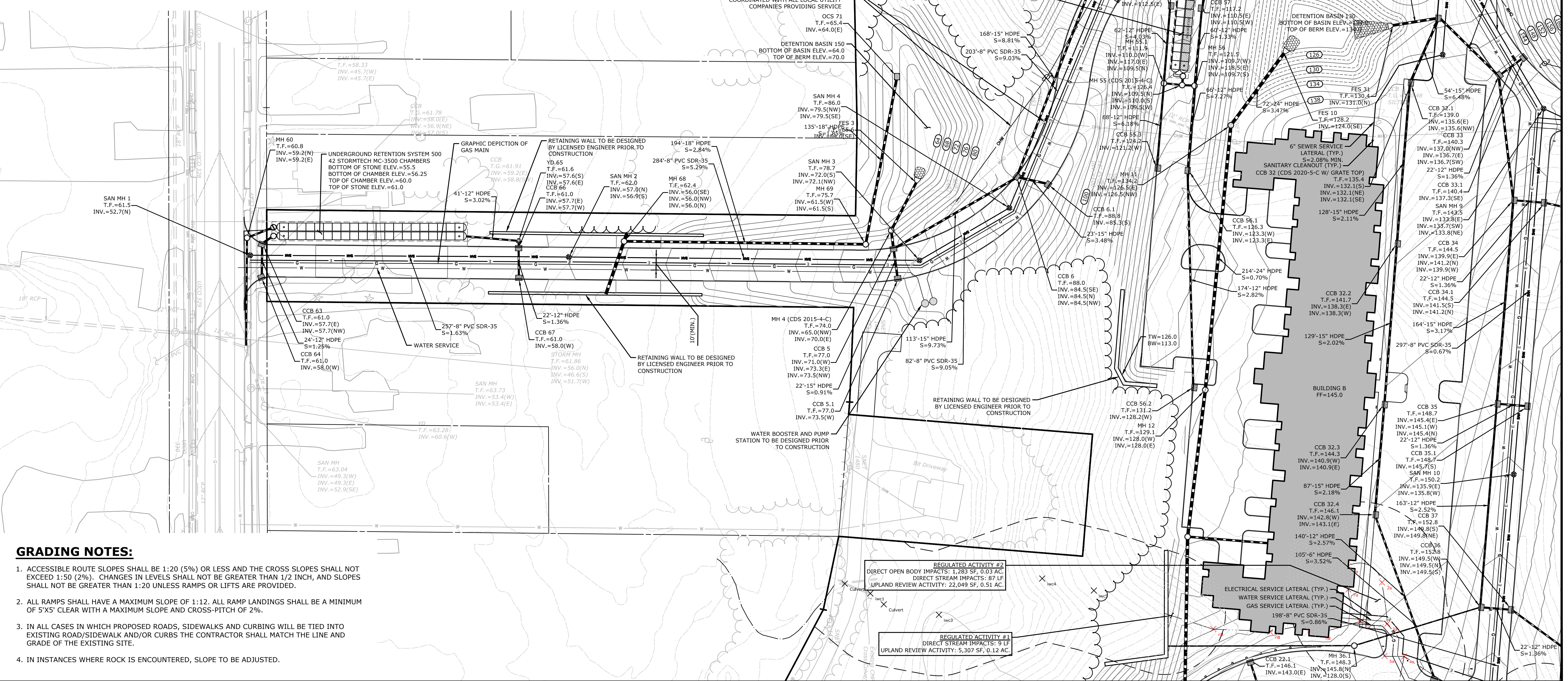
- 1) THE ISOLATOR ROW UNIT SHALL BE COMPLETELY CLEANED OF ACCUMULATED DEBRIS AND SEDIMENTS AT THE COMPLETION OF CONSTRUCTION.
- 2) THE ISOLATOR ROW SHALL BE INSPECTED EVERY 6 MONTHS FOR THE FIRST YEAR OF OPERATION.
- 3) FOR SUBSEQUENT YEARS, THE INSPECTION SHOULD BE ADJUSTED BASED UPON PREVIOUS OBSERVATION OF SEDIMENT DEPOSITION. AT A MINIMUM, THE ISOLATOR ROW SHALL BE INSPECTED ANNUALLY.
- 4) IF UPON VISUAL INSPECTION THE SEDIMENT DEPOSIT ALONG THE LENGTH OF THE ISOLATOR ROW EXCEEDS 3 INCHES, CLEANOUT SHALL BE PERFORMED.
- 5) MAINTENANCE IS ACCOMPLISHED WITH THE JETVAC PROCESS.

E. LAWN AND VEGETATED AREAS

VEGETATED COVER SHALL BE MAINTAINED ON ALL EARTH SURFACES TO MINIMIZE SOIL EROSION. USE OF FERTILIZER SHOULD BE MINIMIZED AND APPLIED USING PRUDENT APPLICATION PROCESSES.

F. ROOF GUTTERS

REMOVE ACCUMULATED DEBRIS AND INSPECT FOR CLOGGING AND/OR DAMAGE AT LEAST ONCE A YEAR, TYPICALLY IN THE FALL AFTER THE LEAVES HAVE FALLEN. ANY DAMAGE SHOULD BE REPAIRED AS REQUIRED.



GRADING NOTES:

1. ACCESSIBLE ROUTE SLOPES SHALL BE 1:20 (5%) OR LESS AND THE CROSS SLOPES SHALL NOT EXCEED 1:50 (2%). CHANGES IN LEVELS SHALL NOT BE GREATER THAN 1/2 INCH, AND SLOPES SHALL NOT BE GREATER THAN 1:20 UNLESS RAMPS OR LIFTS ARE PROVIDED.
2. ALL RAMPS SHALL HAVE A MAXIMUM SLOPE OF 1:12. ALL RAMP LANDINGS SHALL BE A MINIMUM OF 5'X5' CLEAR WITH A MAXIMUM SLOPE AND CROSS-PITCH OF 2%.
3. IN ALL CASES IN WHICH PROPOSED ROADS, SIDEWALKS AND CURBING WILL BE TIED INTO EXISTING ROAD/SIDEWALK AND/OR CURBS THE CONTRACTOR SHALL MATCH THE LINE AND GRADE OF THE EXISTING SITE.
4. IN INSTANCES WHERE ROCK IS ENCOUNTERED, SLOPE TO BE ADJUSTED.

REGULATED ACTIVITY #2
DIRECT OPEN BODY IMPACTS: 1,283 SF, 0.03 AC
DIRECT STREAM IMPACTS: 87 LF
UPLAND REVIEW ACTIVITY: 22,049 SF, 0.51 AC

REGULATED ACTIVITY #1
DIRECT STREAM IMPACTS: 9 LF
UPLAND REVIEW ACTIVITY: 5,307 SF, 0.12 AC

99 REALTY DRIVE
2012 STATE ST
SILVER SPRING, MD 20910

DESIGNED	DRAWN	DLO
JRH	JRH	DLO

SCALE: 1"=40'

DATE: MAY 2, 2022

PROJECT NO: 5956-01

SHEET NO: 08 OF 19

GU-1

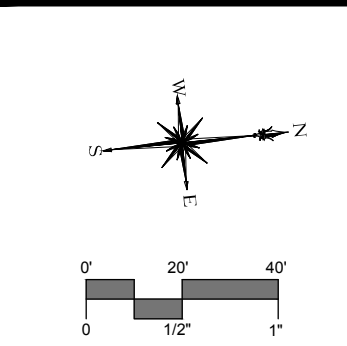
SHEET NAME

SITE PLAN - GRADING AND UTILITIES

THE BLUFFS
MULTIFAMILY ELDERLY HOUSING

31 AND 100 SPERRY LANE AND 161 FOXON ROAD
EAST HAVEN, CONNECTICUT

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DESCRIPTION	DATE	BY

SITE PLAN - GRADING AND UTILITIES
THE BLUFFS
MULTIFAMILY ELDERLY HOUSING
 31 AND 100 SPERRY LANE AND 161 FOXON ROAD
 EAST HAVEN, CONNECTICUT

JRH DESIGNED	JRH DRAWN	DLO CHECKED
SCALE 1"=40'		
DATE MAY 2, 2022		
PROJECT NO. 5956-01		
SHEET NO. 11 OF 19		

GU-4
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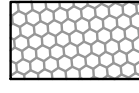



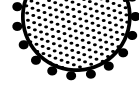

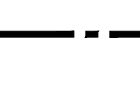
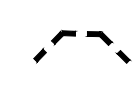
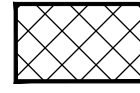
SOIL EROSION AND SEDIMENT CONTROL NARRATIVE

SEDIMENT AND EROSION CONTROL MEASURES AS DEPICTED ON THESE PLANS AND DESCRIBED WITHIN THE SEDIMENT AND EROSION CONTROL NARRATIVE SHALL BE IMPLEMENTED AND MAINTAINED UNTIL PERMANENT COVER AND STABILIZATION IS ESTABLISHED. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL CONFORM TO THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL, CONNECTICUT - 2002, TOWN OF EAST HAVEN REQUIREMENTS, AND IN ALL CASES BEST MANAGEMENT PRACTICES SHALL PREVAIL.

1. PURPOSE AND DESCRIPTION OF PROJECT
 - A.) CONSTRUCTION OF A ROADWAY AND ASSOCIATED UTILITIES.
 - B.) DISTURBED AREA: ±25.8 AC.
2. IDENTIFICATION OF EROSION AND SEDIMENT CONTROL CONCERNS
 - A.) CUTS AND FILLS ASSOCIATED WITH CONSTRUCTION.
 - B.) PROTECTION OF DRAINAGE SYSTEMS.
 - C.) PROTECTION OF ON SITE WETLANDS.

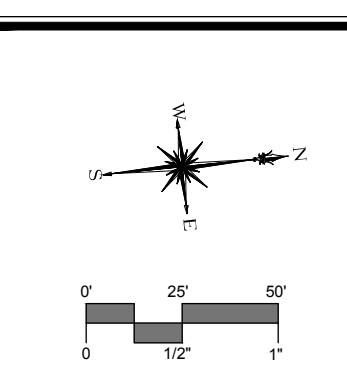
3. IDENTIFICATION OF OTHER POSSIBLE PERMITS
 THE POSSIBLE PERMITS REQUIRED FOR THE PROJECT ARE LOCAL INLAND WETLANDS, PLANNING AND ZONING PERMITS, DEEP ACTIVITY REPORTING FORM, AND FINAL WPCA PERMIT.

EROSION CONTROL LEGEND

-  CE CONSTRUCTION ENTRANCE (50 L.F. MIN.)
-  GSF SEDIMENT FILTER FENCE
-  IP INLET PROTECTION
-  HB STACKED HAYBALES
-  STK SOIL STOCKPILE AREA
-  TST TEMPORARY SEDIMENT TRAP
-  DB DIVERSION BERM
-  SCD STONE CHECK DAM
-  ECB EROSION CONTROL BLANKET

TRAP NO.	CONTRIBUTING DISTURBED AREA (ACRES)	STORAGE VOLUME REQUIRED* (CY)	STORAGE DEPTH REQUIRED (FT)	LENGTH (FT) X WIDTH (FT)	VOLUME PROVIDED** (CY)
1	3.3	443	5	100 X 30	555.6
2	7.1	952	5	90 X 70	1166.7

*134 CY STORAGE VOLUME REQUIRED PER ACRE CONTRIBUTING AREA TO TST
 **ONE HALF WET-STORAGE, ONE HALF DRY-STORAGE



DESCRIPTION	DATE	BY

SEDIMENT AND EROSION CONTROL PLAN
THE BLUFFS
MULTIFAMILY ELDERLY HOUSING
 31 AND 100 SPERRY LANE AND 161 FOXON ROAD
 EAST HAVEN, CONNECTICUT

STN	STN	DLO
DESIGNED	DRAWN	CHECKED
SCALE	1"=50'	
DATE	MAY 2, 2022	
PROJECT NO.	5956-01	
SHEET NO.	12 OF 19	

SE-1

SEDIMENT AND EROSION CONTROL SPECIFICATIONS

GENERAL:
 THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT. IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATERBODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATERBODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING

- GENERAL:**
- THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:
 - THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
 - THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO FOUR VERTICAL (1:4).
 - PROVISION SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
 - EXCAVATIONS SHOULD NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
 - NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH UPON THE PREMISES OF ANOTHER OWNER OR UPON ADJACENT WETLANDS, WATERCOURSES, OR WATERBODIES.
 - PRIOR TO ANY REGRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING

- GENERAL:**
- TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.
 - UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.
 - REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.
 - APPLY SOIL AMENDMENTS AS FOLLOWS:
 - LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 2 TONS PER ACRE.
 - ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 2 TONS PER ACRE

- MATERIAL:**
- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
 - TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
 - TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF LARGE STONES, LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
 - AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
 - SOLUBLE SALT CONTENT OF LESS THAN 400 PPM IS REQUIRED.
 - THE TOPSOIL SHALL BE WARRANTED BY SELLER TO BE FREE OF DETECTABLE RESIDUES OF CHEMICAL PESTICIDES, HERBICIDES, PETROLEUM PRODUCTS, OR OTHER UNSUITABLE TOXINS.

- APPLICATION:**
- AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
 - SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST FOUR INCHES (4"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER

TEMPORARY VEGETATIVE COVER SHALL BE ESTABLISHED ON ALL UNPROTECTED AREAS THAT PRODUCE SEDIMENT, AREAS WHERE FINAL GRADING HAS BEEN COMPLETED, AND AREAS WHERE THE ESTIMATED PERIOD OF BARE SOIL EXPOSURE IS LESS THAN 12 MONTHS. TEMPORARY VEGETATIVE COVER SHALL BE APPLIED IF AREAS WILL NOT BE PERMANENTLY SEEDED BY SEPTEMBER 1.

- GENERAL:**
- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
 - REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
 - APPLY SOIL AMENDMENTS AS FOLLOWS:
 - LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
 - ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
 - UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST INTO THE SOIL.
 - APPLY IT EVENLY TO SOIL SURFACE AS A SEED BED.
 - TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

- SITE PREPARATION:**
- SELECT APPROPRIATE SPECIES FOR THE SITUATION. NOTE RATES AND SEEDING DATES (SEE VEGETATIVE COVER SELECTION & MULCHING).
 - APPLY SEED UNIFORMLY ACCORDING TO THE RATE INDICATED BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
 - UNLESS HYDROSEEDED, COVER RYEGRASS SEEDS WITH NOT MORE THAN 1/4 INCH OF SOIL USING SUITABLE EQUIPMENT.
 - MULCH IMMEDIATELY AFTER SEEDING IF REQUIRED. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW.) APPLY STRAW AND ANCHOR TO SLOPES GREATER THAN 3%/6% OR WHERE NEEDED.

PERMANENT VEGETATIVE COVER

GENERAL:
 PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL GRADING HAS BEEN COMPLETED AND A PERMANENT COVER IS NEEDED.

- SITE PREPARATION:**
- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
 - REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
 - PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
 - APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
 - APPLY SOIL AMENDMENTS AS FOLLOWS:
 - LIME: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE.
 - ROCK DUST: ACCORDING TO SOIL TEST OR AT THE RATE OF 1 TONS PER ACRE
 - UNLESS HYDROSEEDED, WORK IN LIME TO A DEPTH OF 4 INCHES WITH A DISK OR ANY SUITABLE EQUIPMENT. DO NOT WORK FINISHED COMPOST

VEGETATED COVER SELECTION AND MULCHING

TEMPORARY VEGETATIVE COVER:
 PERENNIAL RYEGRASS 5 LBS./1,000 SQ.FT. (LOLIUM PERENNE)
 DUTCH WHITE CLOVER (TRIFOLIUM REPENS) 1/4 LBS PER 1000 SF. OR 6LBS/AC.
*** PERMANENT VEGETATIVE COVER:**
 DUTCH WHITE CLOVER 30%
 BARON KENTUCKY BLUEGRASS 30%
 JAMESTOWN II CHEWINGS FESCUE 20%
 PALMER PERENNIAL RYEGRASS 20%
 NEW ENGLAND EROSION CONTROL/R3ESOTRATON MIX FOR MOIST SITES AT 1/8 LB PER 1000 S.F. FOR 5 LBS/AC.
 NEW ENGLAND SHOWY WILD FLOW MIX AT 1/16 LB PER 1000 S.F. OR 2 LBS/AC

*** LOFTS - "TRIPLE GENERAL" MIX OR APPROVED EQUAL. RECOMMENDED RATE/TIME SEEDING.**
 SPRING SEEDING: 4/1 to 5/31
 FALL SEEDING: 8/16 to 10/15

TEMPORARY MULCHING:
 STRAY 70-90 LBS./1,000 SQ.FT. (TEMPORARY VEGETATIVE AREAS) WOOD FIBER IN HYDROMULCH SLURRY 25-50 LBS./1,000 SQ. FT.

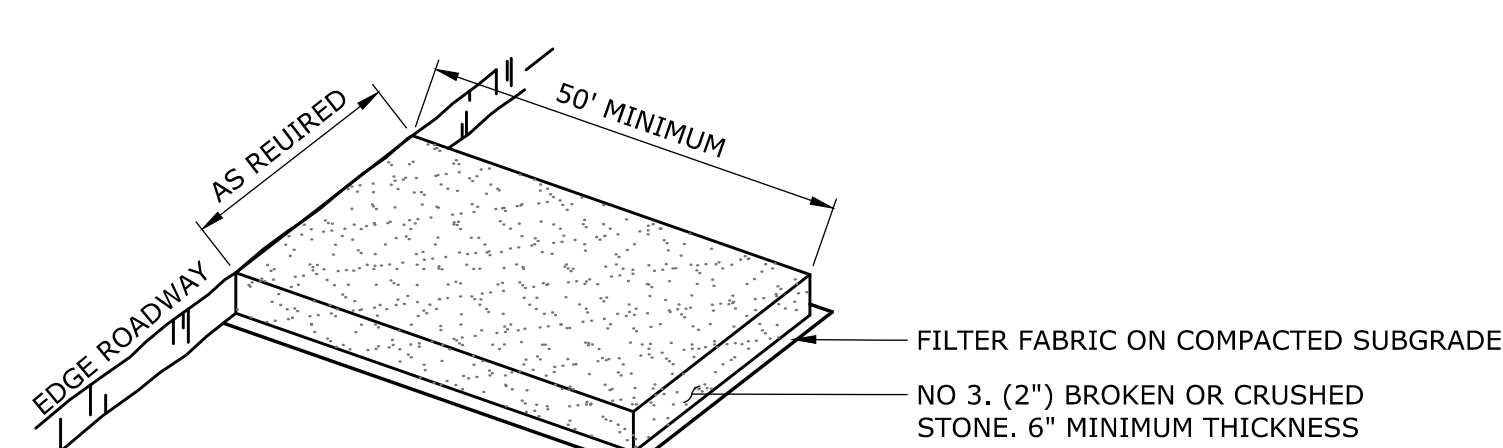
- ESTABLISHMENT:**
- SMOOTH AND FIRM SEEDBED WITH CULTIPACKER OR OTHER SIMILAR EQUIPMENT PRIOR TO SEEDING (EXCEPT WHEN HYDROSEEDING).
 - SELECT ADAPTED SEED MIXTURE FOR THE SPECIFIC SITUATION. NOTE RATES AND THE SEEDING DATES; (SEE VEGETATIVE COVER SELECTION & MULCHING SPEC. BELOW).
 - APPLY SEED UNIFORMLY ACCORDING TO RATE INDICATED, BY BROADCASTING, DRILLING, OR HYDRAULIC APPLICATION.
 - COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4 INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).
 - MULCH IMMEDIATELY AFTER SEEDING, IF REQUIRED, ACCORDING TO TEMPORARY MULCHING SPECIFICATIONS. (SEE VEGETATIVE COVER SELECTION & MULCHING SPECIFICATION BELOW).
 - USE PROPER INOCULANT ON ALL LEGUME SEEDLINGS, USE FOUR (4) TIMES NORMAL RATES WHEN HYDROSEEDING.
 - USE SOD WHERE THERE IS A HEAVY CONCENTRATION OF WATER AND IN CRITICAL AREAS WHERE IT IS IMPORTANT TO GET A QUICK VEGETATIVE COVER TO PREVENT EROSION.

- MAINTENANCE:**
- TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.

EROSION CHECKS

GENERAL:
 1. TEMPORARY PEROVIOUS BARRIERS USING BALES OF HAY OR STRAW, HELD IN PLACE WITH STAKES DRIVEN THROUGH THE BALES AND INTO THE GROUND OR GEOTEXTILE FABRIC FASTENED TO A FENCE POST AND BURIED INTO THE GROUND, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

- CONSTRUCTION:**
- BALES SHOULD BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
 - EACH BALE SHALL BE EMBEDDED INTO THE SOIL A MINIMUM OF FOUR (4") INCHES.
 - BALES SHALL BE SECURELY ANCHORED IN PLACE BY WOOD STAKES OR REINFORCEMENT BARS DRIVEN THROUGH THE BALES AND INTO THE GROUND. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.
 - GEOTEXTILE FABRIC SHALL BE SECURELY ANCHORED AT THE TOP OF A THREE FOOT (3') HIGH FENCE AND BURIED A MINIMUM OF FOUR INCHES (4") TO THE SOIL. SEAMS BETWEEN SECTIONS OF FILTER FABRIC SHALL OVERLAP A MINIMUM OF TWO FEET (2').
- INSTALLATION AND MAINTENANCE:**
- BALED HAY EROSION BARRIERS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
 - BALED HAY EROSION BARRIERS AND GEOTEXTILE FENCE SHALL BE INSTALLED AT THE LOCATION INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
 - ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
 - INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
 - EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

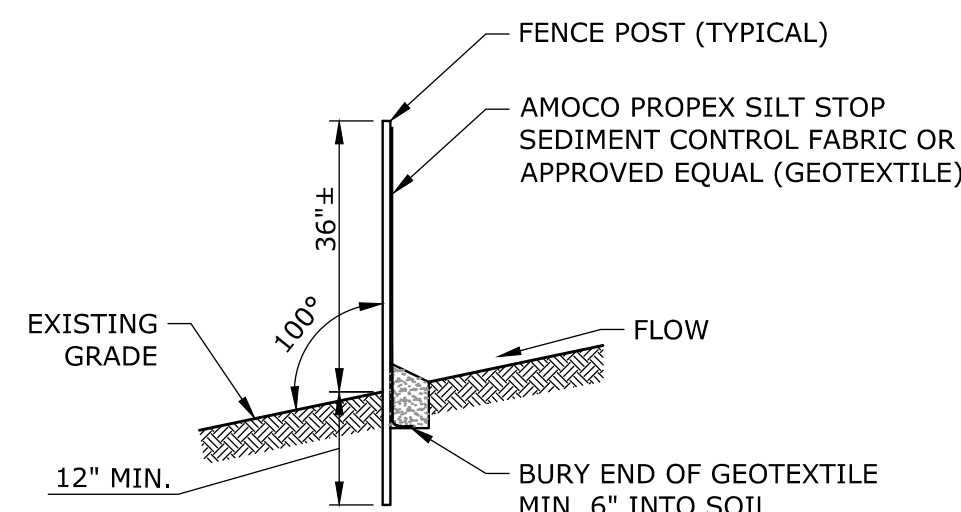


NOTES:

- CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.

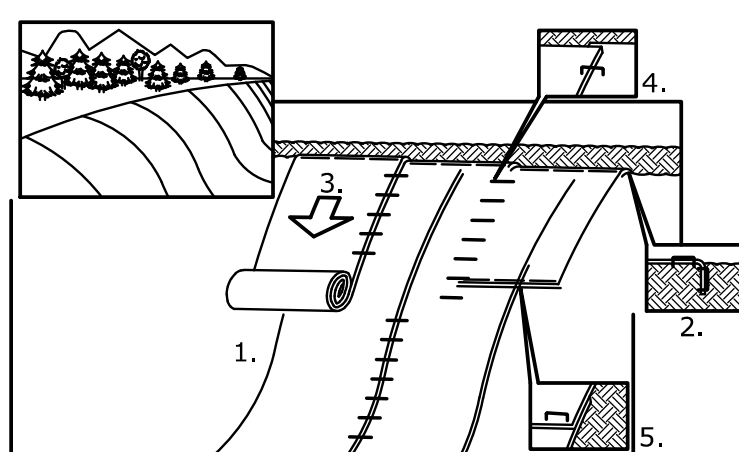
CONSTRUCTION ENTRANCE PAD

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SEDIMENT FILTER FENCE

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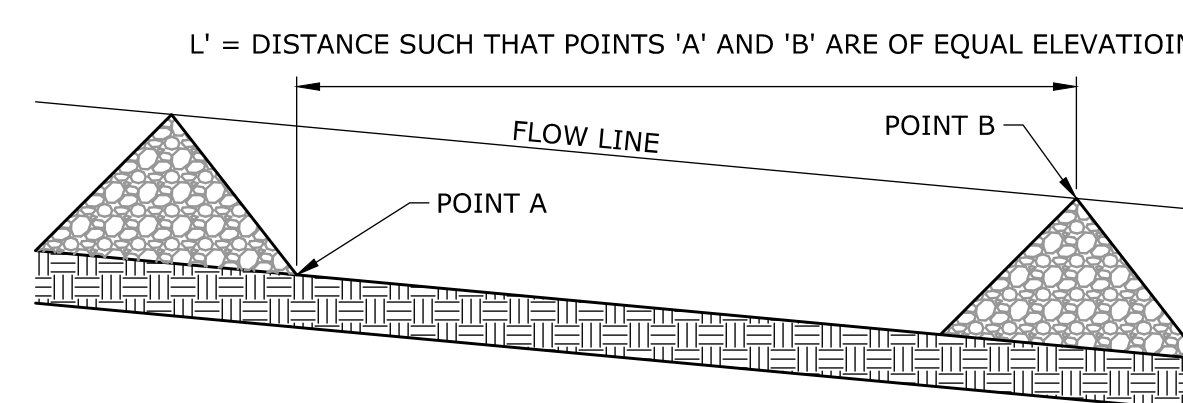
STONE CHECK DAM UPSTREAM

NOTES:

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING SCC225, DO NOT SEED PREPARED AREA. SCC225 MUST BE INSTALLED WITH PAPER SIDE DOWN.
 - BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
 - ROLL THE BLANKETS DOWN THE SLOPE IN THE DIRECTION OF THE WATER FLOW.
 - THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
 - WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 6" OVERLAP. STAPLE THROUGH OVERLAP AREA, APPROXIMATELY 12" APART.
- REFER TO GENERAL STAPLE PATTERN GUIDE IN NORTH AMERICAN GREEN CATALOG FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

APPLICATION OF EROSION CONTROL BLANKET ON SLOPES

NOT TO SCALE



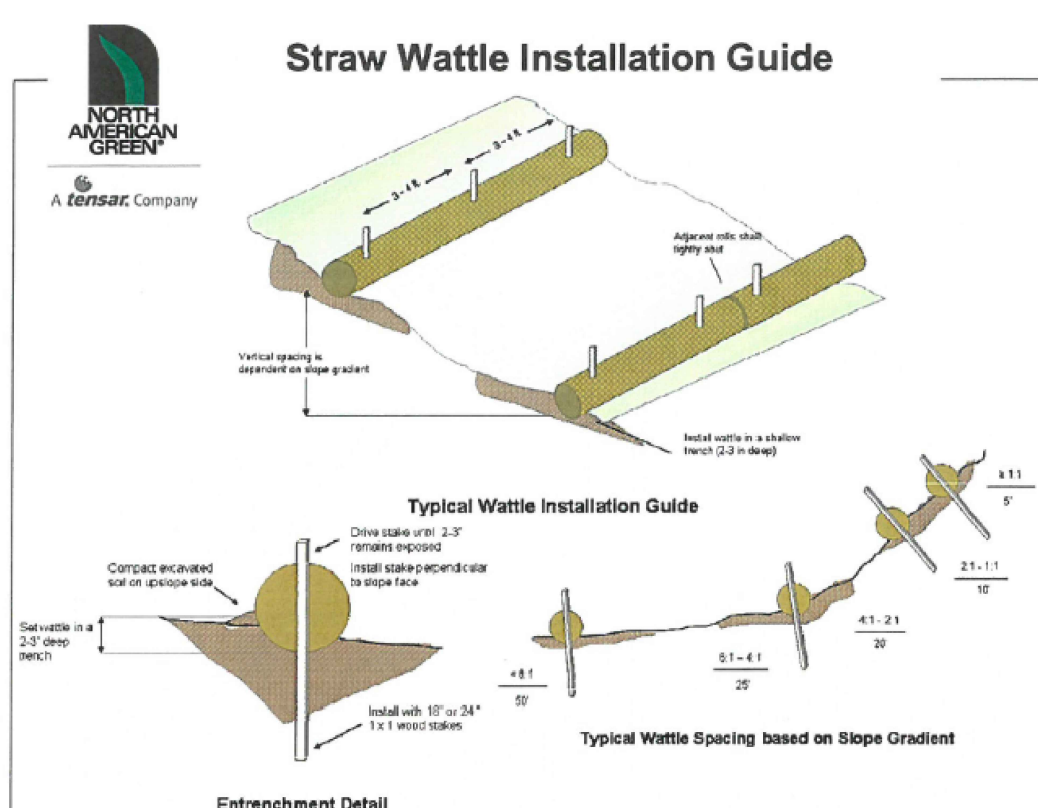
SPACING BETWEEN CHECK DAMS

NOTES:

- KEY STONE INTO THE DITCH BANKS AND EXTEND INTO THE ABUTMENTS A MINIMUM OF 18" TO PREVENT FLOW FROM FLANKING THE CHECK DAM.
- THE MINIMUM DESIGN CAPACITY SHALL CONVEY A 2 YEAR-24 HOUR PEAK FLOW.

STONE CHECK DAM

NOT TO SCALE



Straw Wattle Installation Guide

- BEGIN AT THE LOCATION WHERE THE WATTLE IS TO BE INSTALLED BY EXCAVATING A 2'-0" (61.3 CM) DEEP X 8" (20.3 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
- PLACE THE WATTLE IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE WATTLE ON THE UPHILL SIDE. ADJACENT WATTLES SHOULD TIGHTLY ABUT.
- SECURE THE WATTLE WITH 16x4" (40.6x10.2 CM) STAKES EVERY 3'-4" (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE WATTLE LEAVING AT LEAST 3" (7.6 CM) OF STAKE EXTENDING ABOVE THE WATTLE SURFACE.

North American Green Straw Wattles are a Best Management Practice (BMP) that offers an effective and economical alternative to silt fence and straw bales for sediment control and storm water runoff.

Qualities are provided to assist in design, installation, and structure spacing. The guidelines may require modification due to variation in soil type, rainfall intensity or duration, and amount of runoff affecting the application site.

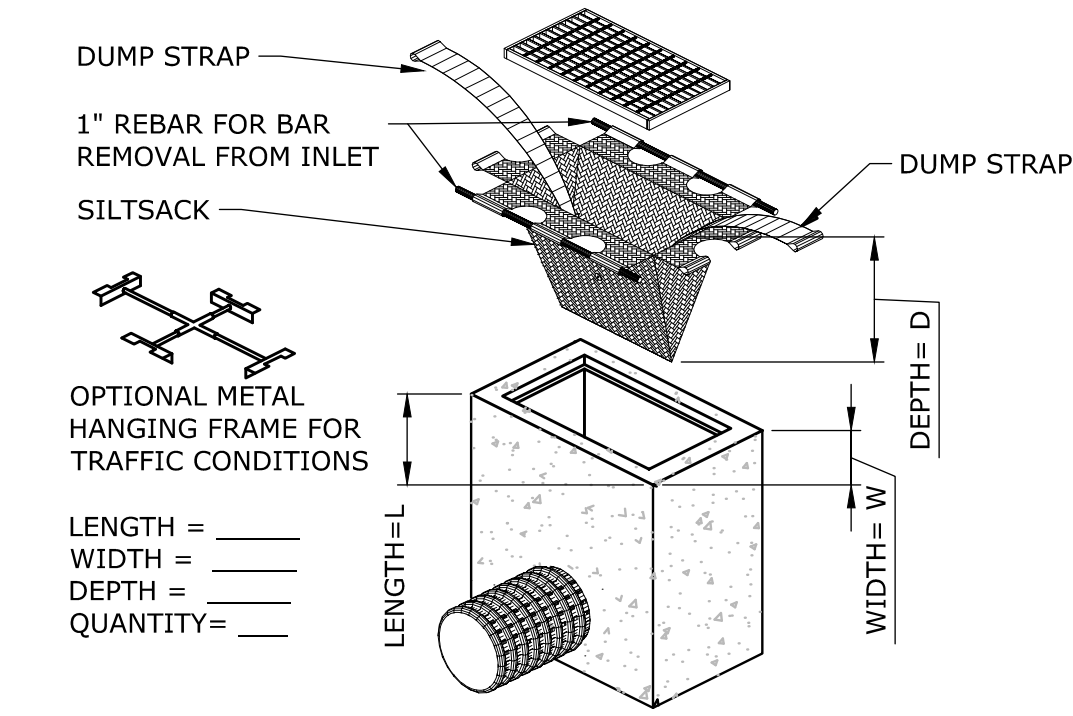
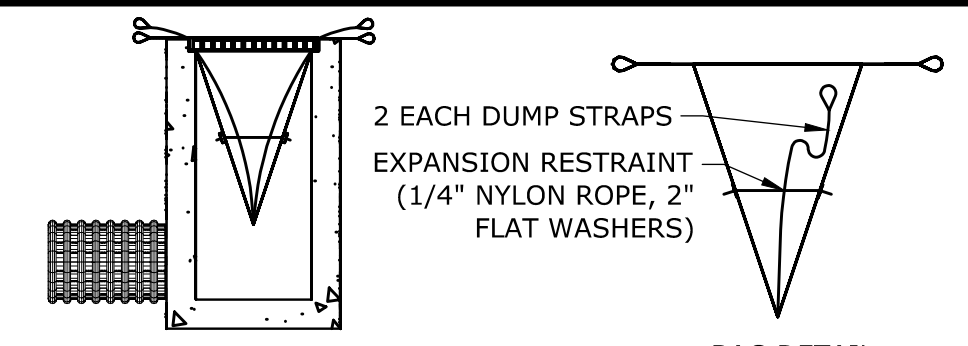
To maximize sediment containment with the Straw Wattle, place the initial structure at the top of the slope if significant runoff is expected from above. If no runoff from above is expected, the initial Straw Wattle can be installed at the appropriate distance downhill from the top of the slope. The final structure should be installed at or just beyond the bottom of the slope. Wattles should be installed perpendicular to the primary direction of overland flow.

Straw Wattles are a temporary sediment control device and are not intended to replace silt fence or erosion control products (ECPPs) or hydraulic erosion control products (HECPs). If vegetation is desired for permanent erosion control, North American Green recommends that ECPPs or HECPs be used to provide effective immediate erosion control until vegetation is established. Straw Wattles may be used in conjunction with burlap, mats, and mulches as supplemental sediment and runoff control for these applications. Like all sediment control devices, the effectiveness of the Straw Wattle is dependent on slope severity.

For additional installation assistance, please contact North American Green's Technical Services Department at 1-800-772-2040
 14649 Highway 41 North, Evansville, Indiana 47725
 1-800-772-2040 www.nagreen.com Rev. 1/2008

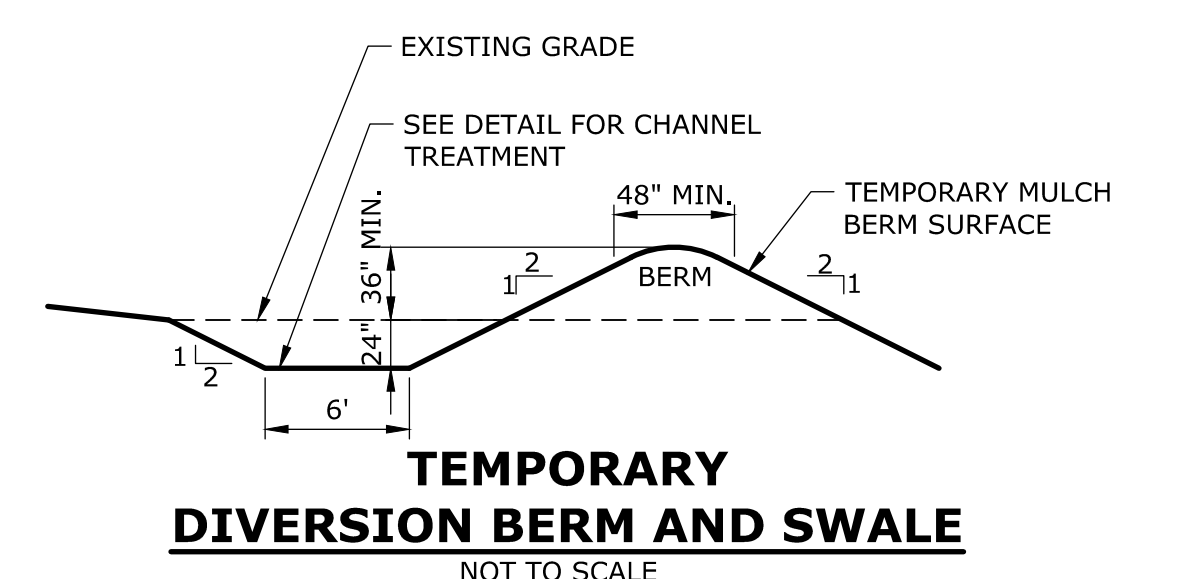
STRAW WATTLE (SW)

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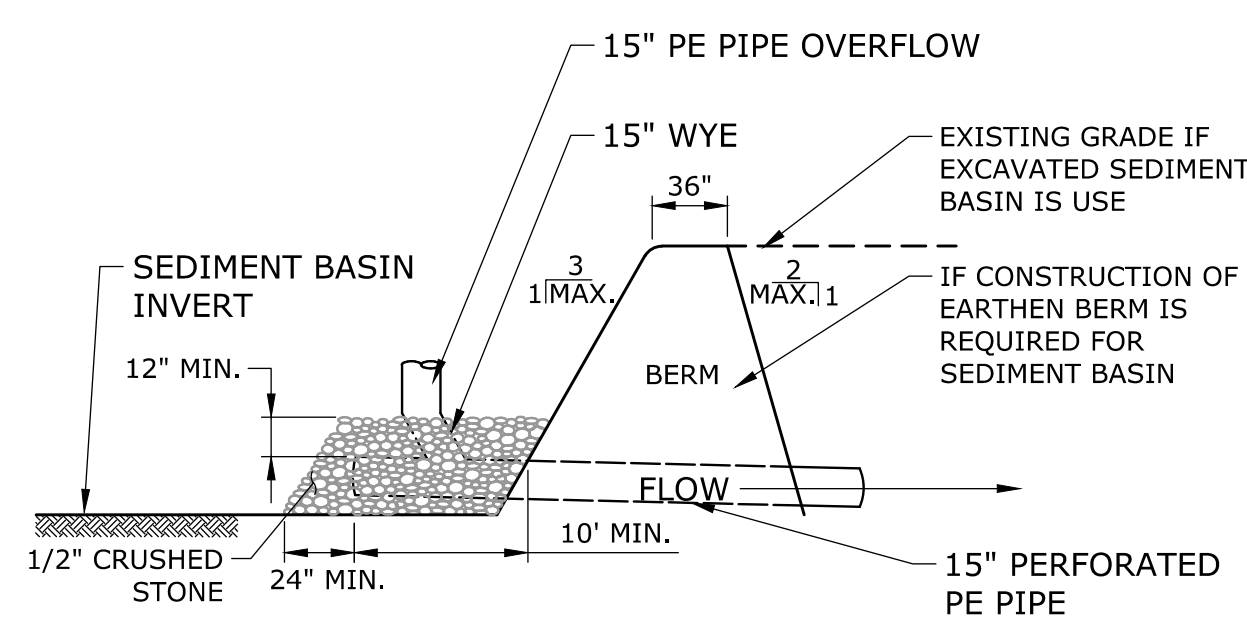
INLET SEDIMENT CONTROL DEVICE

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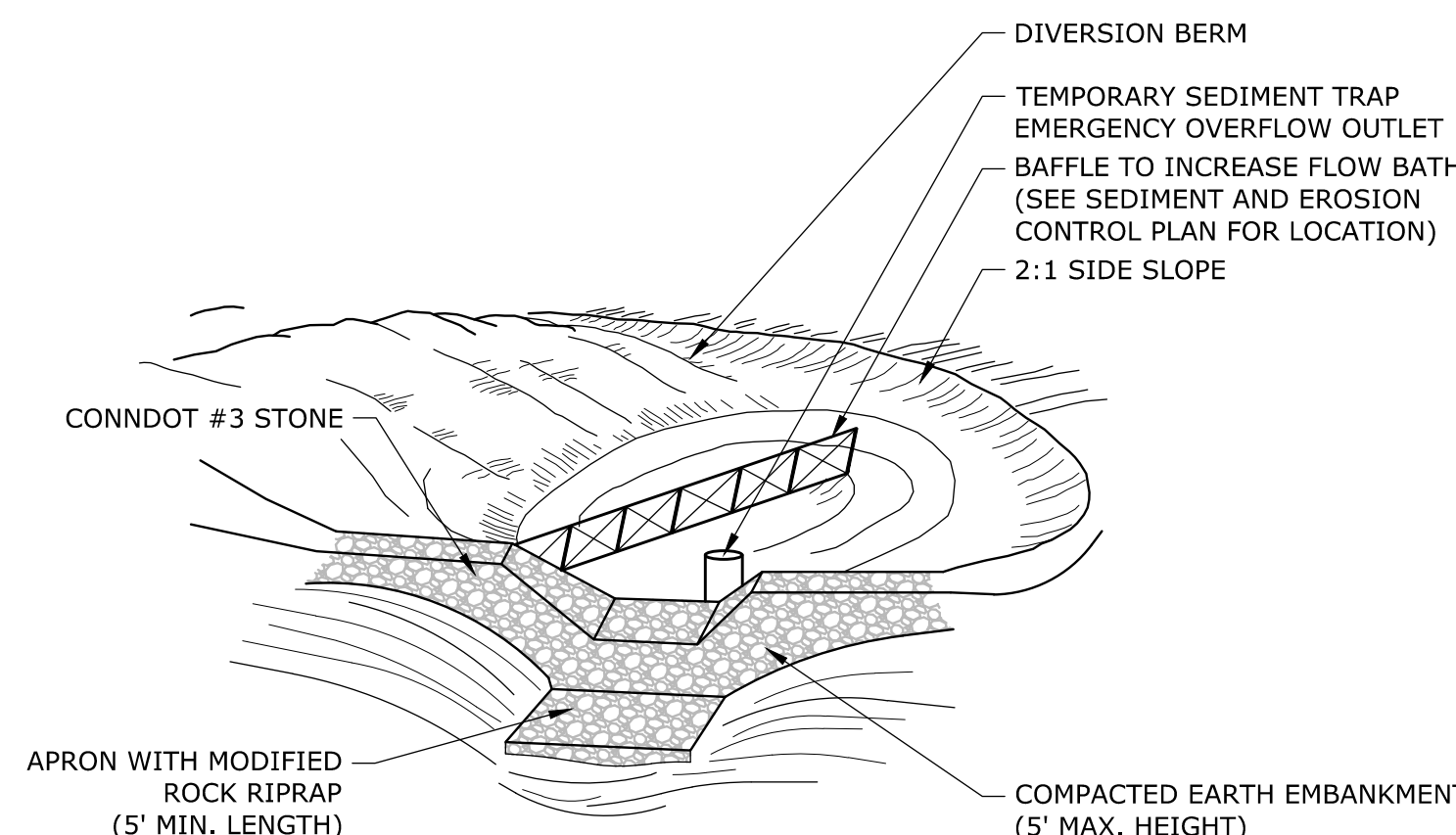
TEMPORARY DIVERSION BERM AND SWALE

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TEMPORARY SEDIMENT BASIN OUTLET

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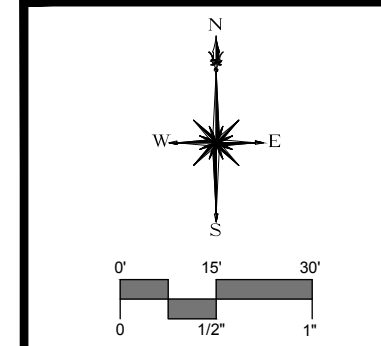
NOTES:

- REFER TO SEDIMENT & EROSION CONTROL PLAN FOR APPROXIMATE DIMENSIONS AND REQUIRED VOLUME.

TEMPORARY SEDIMENT TRAP

NOT TO SCALE

EROSION CONTROL MAINTENANCE INTERVALS				
EROSION CONTROL MEASURE	CONTROL OBJECTIVE	INSPECTION/MAINTENANCE	FAILURE INDICATORS	REMOVAL
SILT FENCE (SF) (RELATED: IP, STK)	- INTERCEPT, AND REDIRECT/DETAIN SMALL AMOUNTS OF SEDIMENT FROM SMALL DISTURBED AREAS. - DECREASE VELOCITY OF SHEET FLOW. - PROTECT SENSITIVE SLOPES OR SOILS FROM EXCESSIVE WATER FLOW.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. ACCUMULATED SEDIMENT MUST BE REMOVED ONCE ITS DEPTH IS EQUAL TO 1/2 THE TRENCH HEIGHT. INSPECT FREQUENTLY DURING PUMPING OPERATIONS IF USED FOR DEWATERING OPERATIONS.	- PHYSICAL DAMAGE OR DECOMPOSITION - EVIDENCE OF OVERTOPPED OR UNDERCUT FENCE - EVIDENCE OF SIGNIFICANT FLOWS EVADING CAPTURE - REPETITIVE FAILURE	SILT FENCE MAY BE REMOVED AFTER UPHILL AND SENSITIVE AREAS HAVE BEEN PERMANENTLY STABILIZED.
CONSTRUCTION ENTRANCE (CE)	- REDUCE THE TRACKING OF SEDIMENT OFF-SITE ONTO PAVED SURFACES.	INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC ADDITION OF STONE, OR LENGTHENING OF ENTRANCE MAY BE REQUIRED AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES AS A RESULT OF INEFFICIENCY OF CONSTRUCTION ENTRANCE SHALL BE IMMEDIATELY REMOVED.	- SEDIMENT IN ROADWAY ADJACENT TO SITE	CONSTRUCTION ENTRANCE MAY BE REMOVED ONCE CONSTRUCTION HAS BEEN PERMANENTLY STABILIZED, AND ALL OTHER SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
INLET PROTECTION (IP)	- PROHIBIT SILT IN CONSTRUCTION-RELATED RUNOFF FROM ENTERING STORM DRAINAGE SYSTEM.	INSPECT AFTER ANY RAIN EVENT. IF FILTER BAG INSIDE CATCH BASIN CONTAINS MORE THAN 6" OF SEDIMENT, REMOVE SEDIMENT FROM BAG. CHECK SURROUNDING SILT FENCE AND HAY BALES PER NOTED ABOVE.	- RIPPED BAG - FAILED HAY BALES / SILT FENCE - SIGNIFICANT SILT PRESENCE IN STORM DRAINAGE SYSTEM OUTFLOW.	INLET PROTECTION MAY BE REMOVED ONCE THE SITE HAS BEEN PERMANENTLY STABILIZED, AND ALL SECTIONS OF ROADWAY HAVE BEEN PERMANENTLY PAVED.
STOCKPILE PROTECTION (STK)	- RETAIN SOIL STOCKPILE IN LOCATIONS SPECIFIED, AND REDUCE WATER-TRANSPORT.	INSPECT SILT FENCE AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. PERIODIC REINFORCEMENT OF SILT FENCE, OR ADDITION OF HAY BALES MAY BE NECESSARY.	- EVIDENCE OF STOCK PILE DIMINISHING DUE TO RAIN EVENTS - FAILURE OF SILT FENCE	STOCKPILE PROTECTION MAY BE REMOVED ONCE THE STOCKPILE IS USED OR REMOVED.
TEMPORARY SEDIMENT TRAP (TST)	- DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW A MAJORITY OF THE SEDIMENT TO SETTLE OUT.	INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. STONE OUTLET SHOULD BE AT LEAST 1 FOOT BELOW CREST OF EMBANKMENT. SEDIMENT MUST BE REMOVED WHEN ACCUMULATION REACHES 1/2 OF THE REQUIRED WET STORAGE.	- TURBID WATER - EXCESSIVE SEDIMENT ACCUMULATION - OVERTOPPING EVIDENCE	TST MAY BE REMOVED ONCE THE CONTRIBUTING DRAINAGE AREA IS PERMANENTLY STABILIZED.
TEMPORARY DIVERSION BERM/SWALE (DB)	- MINIMIZE VELOCITY AND CONCENTRATION OF SHEET FLOW ACROSS CONSTRUCTION SITE TO A SEDIMENT TRAPPING FACILITY. - DIVERT WATER ORIGINATING FROM UNDISTURBED AREA AWAY FROM CONSTRUCTION.	WHEN LOCATED WITHIN CLOSE PROXIMITY TO ONGOING CONSTRUCTION ACTIVITIES, INSPECT AT THE END OF EACH WORK DAY AND IMMEDIATELY REPAIR DAMAGES. OTHERWISE INSPECT AT LEAST ONCE A WEEK AND WITHIN 24 HOURS OF THE END OF A STORM WITH A RAINFALL OF 0.5 INCHES OR MORE. REPAIR THE TEMPORARY MEASURE AND ANY OTHER ASSOCIATED MEASURES WITHIN 24 HOURS.	- PHYSICAL DAMAGE - EXCESSIVE SCOURING/EROSION - REPETITIVE FAILURE	TEMPORARY DIVERSIONS MAY BE REMOVED ONCE CONSTRUCTION HAS CEASED AND THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED.

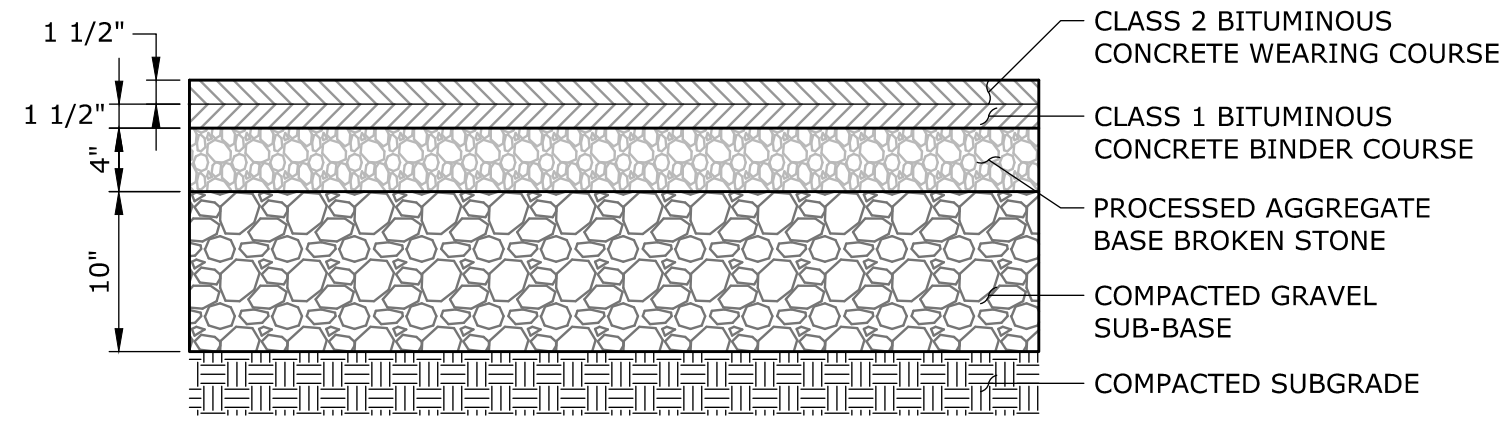


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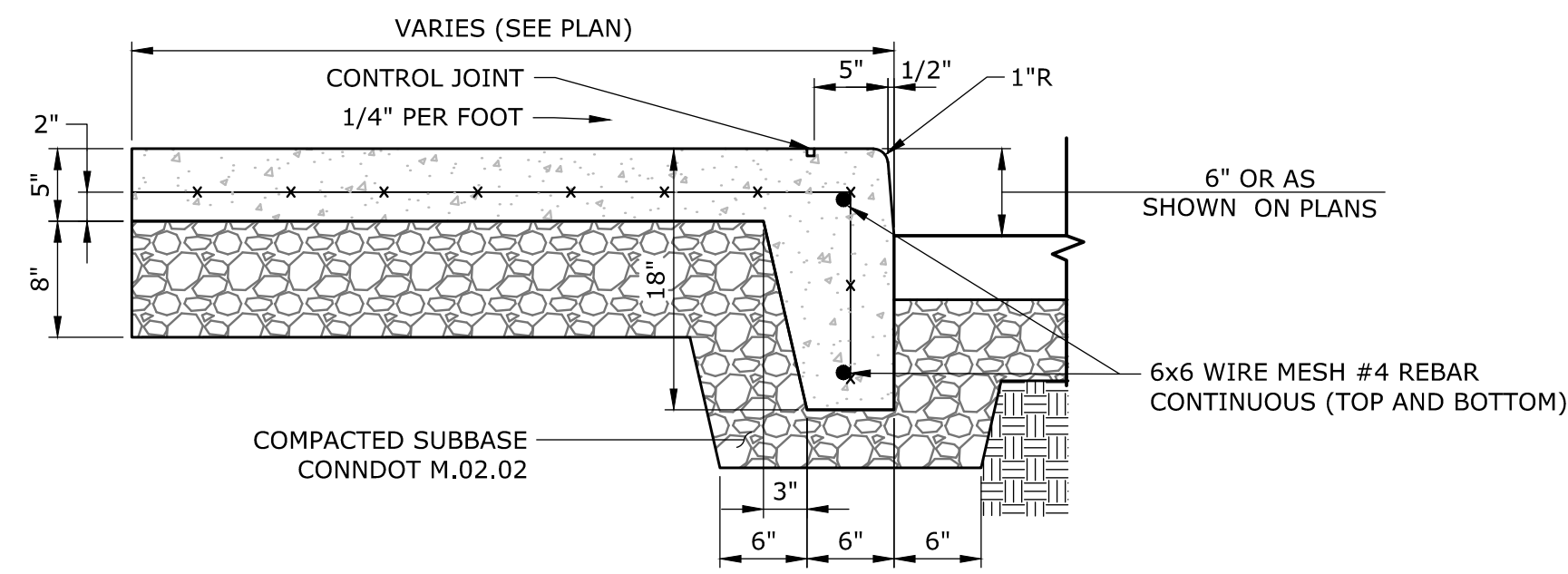
DESCRIPTION	DATE	BY

SITE DETAILS
 THE BLUFFS
 MULTIFAMILY ELDERLY HOUSING
 31 AND 100 SPERRY LANE AND 161 FOXON ROAD
 EAST HAVEN, CONNECTICUT

DESIGNED	DRAWN	CHECKED
SCALE: X"=X'		
DATE: MAY 2, 2022		
PROJECT NO.: 5956-01		
SHEET NO.: 14 OF 19		
SHEET NAME: SE-3		

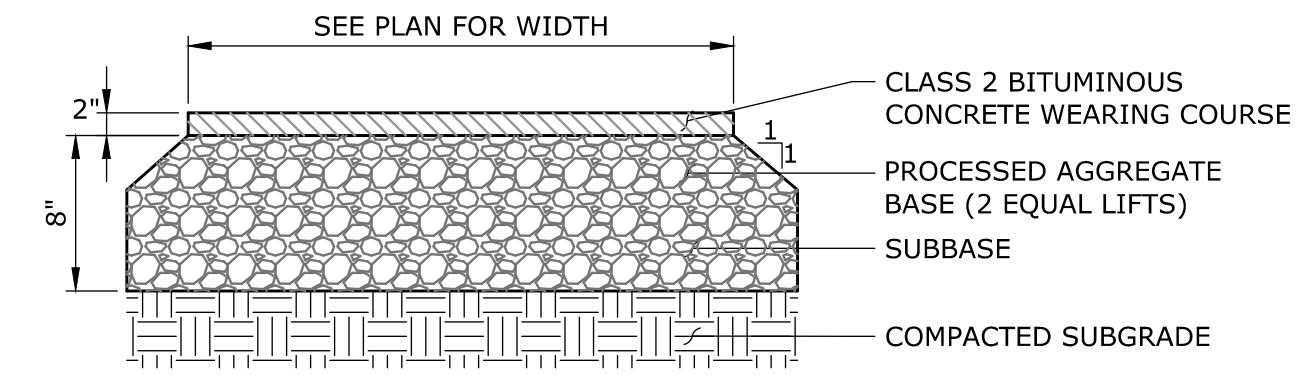


BITUMINOUS CONCRETE
NOT TO SCALE

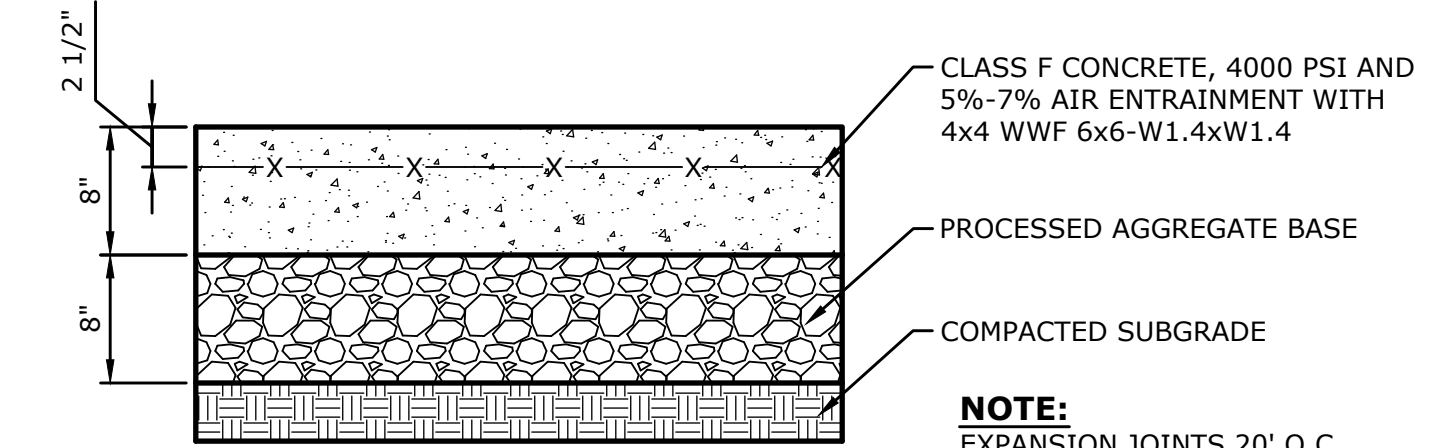


- NOTES:**
1. CONCRETE TO BE 4,000 PSI AT 28 DAYS. 1/2" EXPANSION JOINT AT INTERVALS NOT TO EXCEED 20'. EXPANSION JOINT TO RUN TO THE FACE OF CURB.
 2. TO BE USED IN ALL LOCATIONS WHERE PROPOSED CONCRETE WALKS ABUT PROPOSED CONCRETE CURB.

INTEGRAL CONCRETE SIDEWALK CURB
NOT TO SCALE

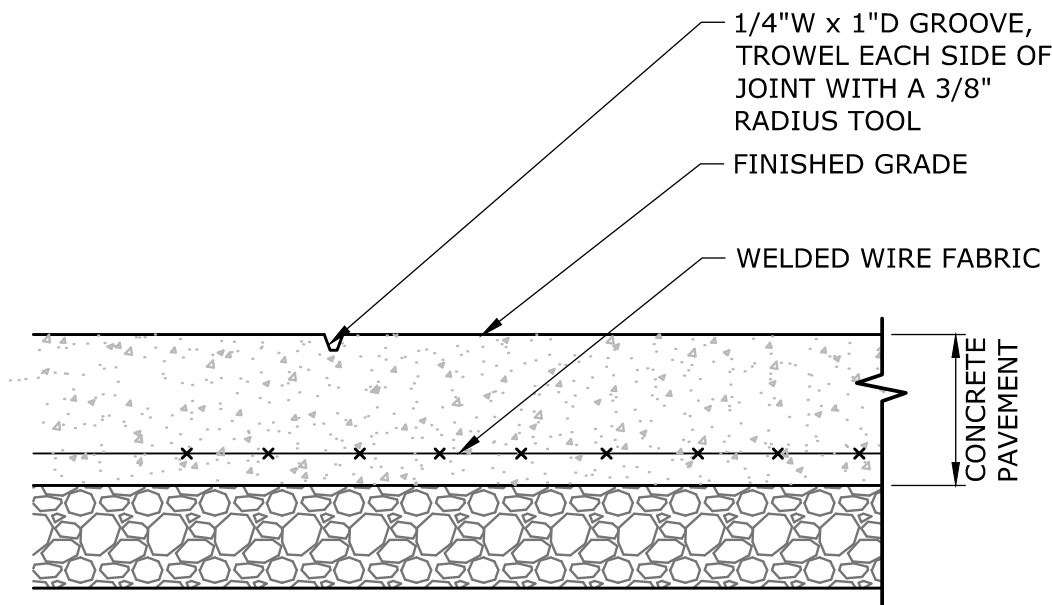


BITUMINOUS CONCRETE WALKS
NOT TO SCALE

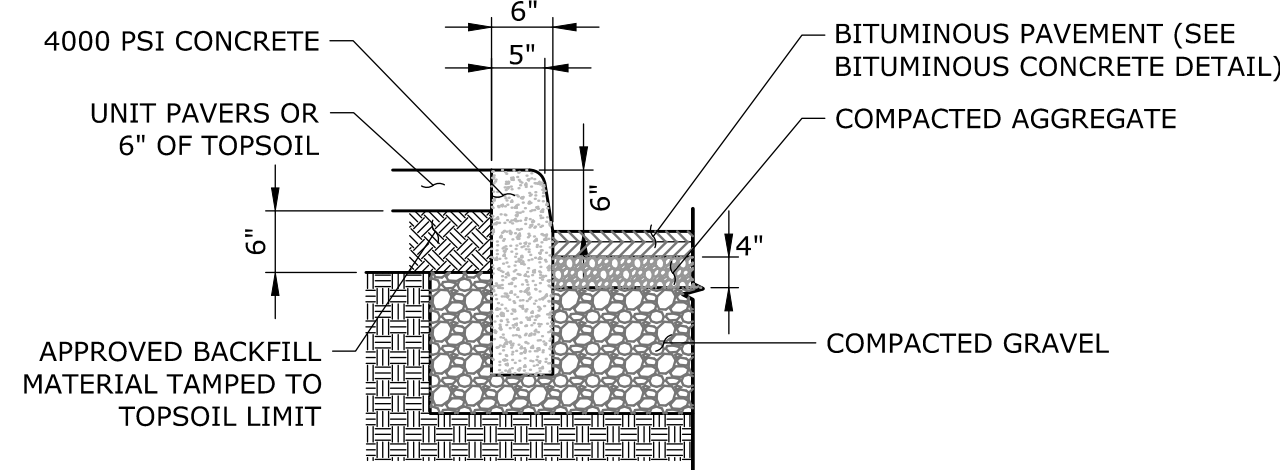


- NOTE:**
EXPANSION JOINTS 20' O.C.
MAXIMUM SCORE JOINTS 5' O.C.
TYPICAL (SEE JOINT DETAILS)

CONCRETE DUMPSTER PAD
NOT TO SCALE

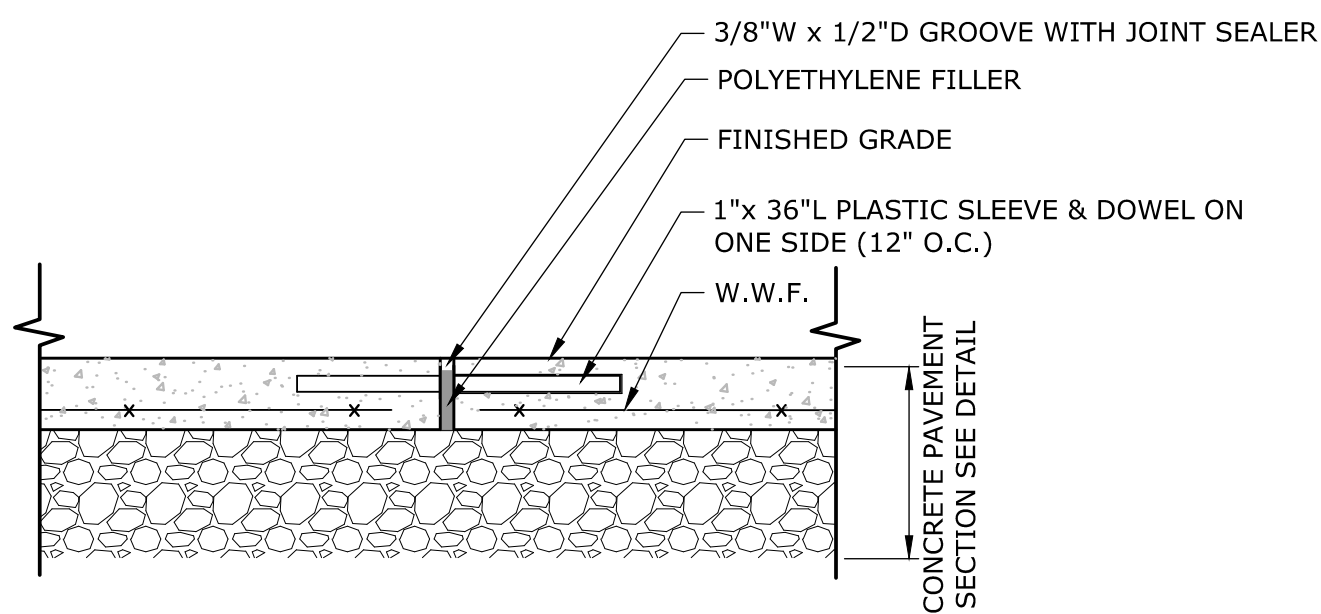


SCORE JOINT
NOT TO SCALE



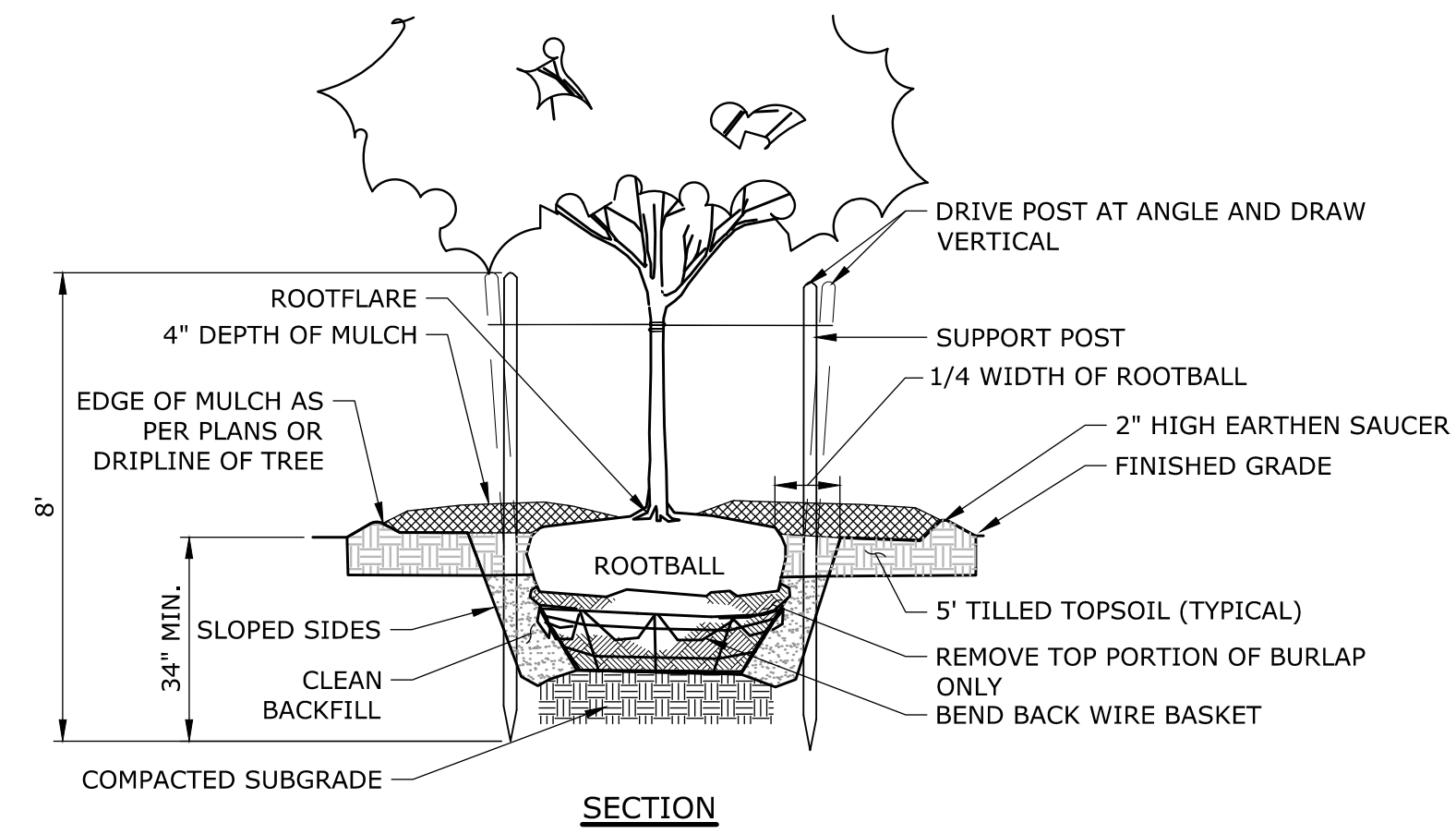
- NOTES:**
1. CONCRETE IS TO BE AIR ENTRAINED 3%-6%
 2. CONCRETE CURB MAY BE PRECAST UNITS. SUBMIT SHOP DRAWINGS.

CONCRETE CURB
NOT TO SCALE



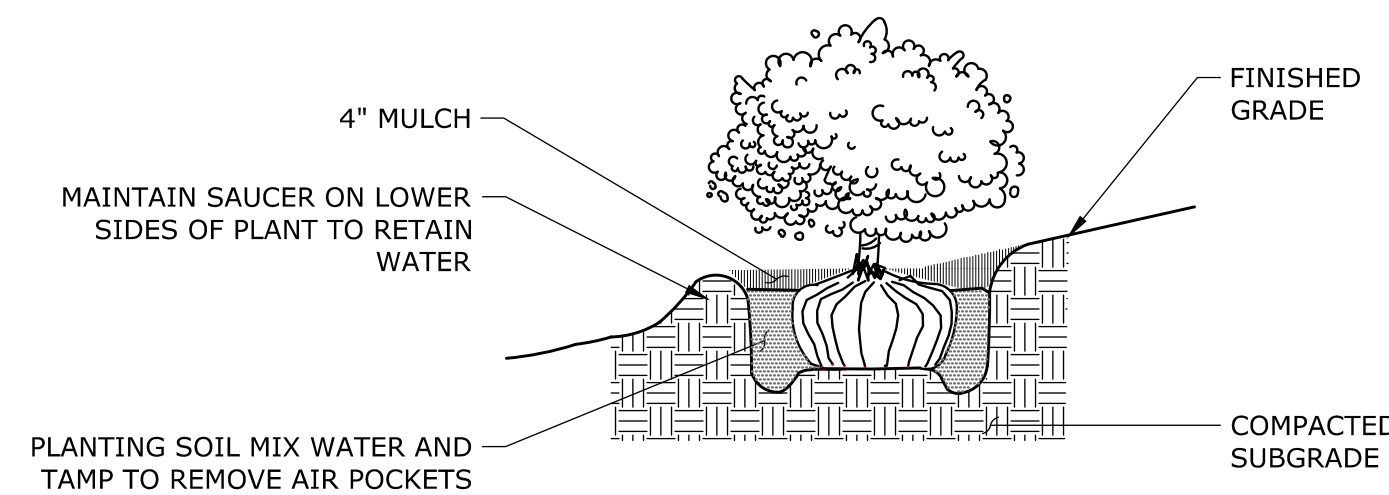
- NOTES:**
1. PROVIDE PREFORMED EXPANSION JOINT AT ALL CONSTRUCTION JOINT, SAWCUT, AND OTHER LOCATIONS WHERE CONCRETE ABUTTS EXISTING CONCRETE.

EXPANSION JOINT
NOT TO SCALE



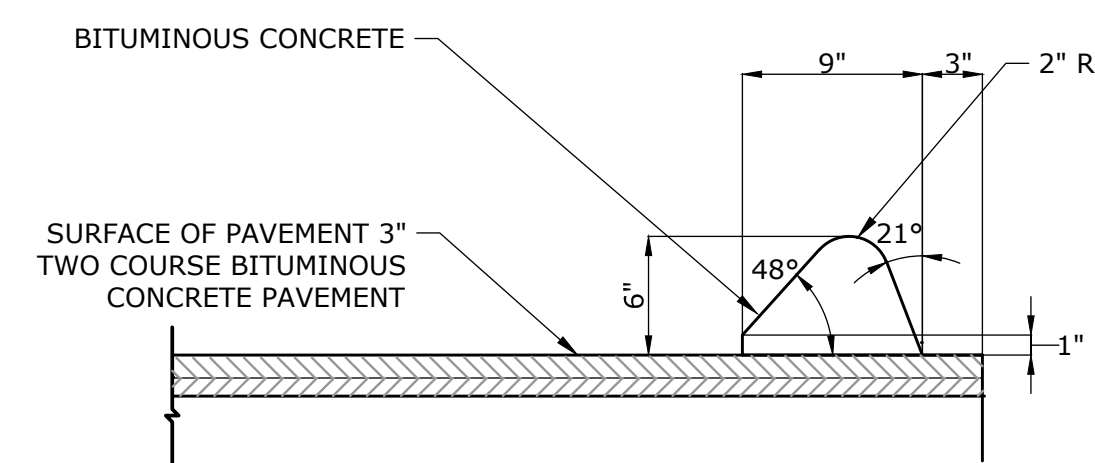
- NOTE:**
1. SUPPORT STAKES SHALL BE REMOVED BY THE CONTRACTOR ONE YEAR AFTER INSTALLATION.

TREE PLANTING
NOT TO SCALE

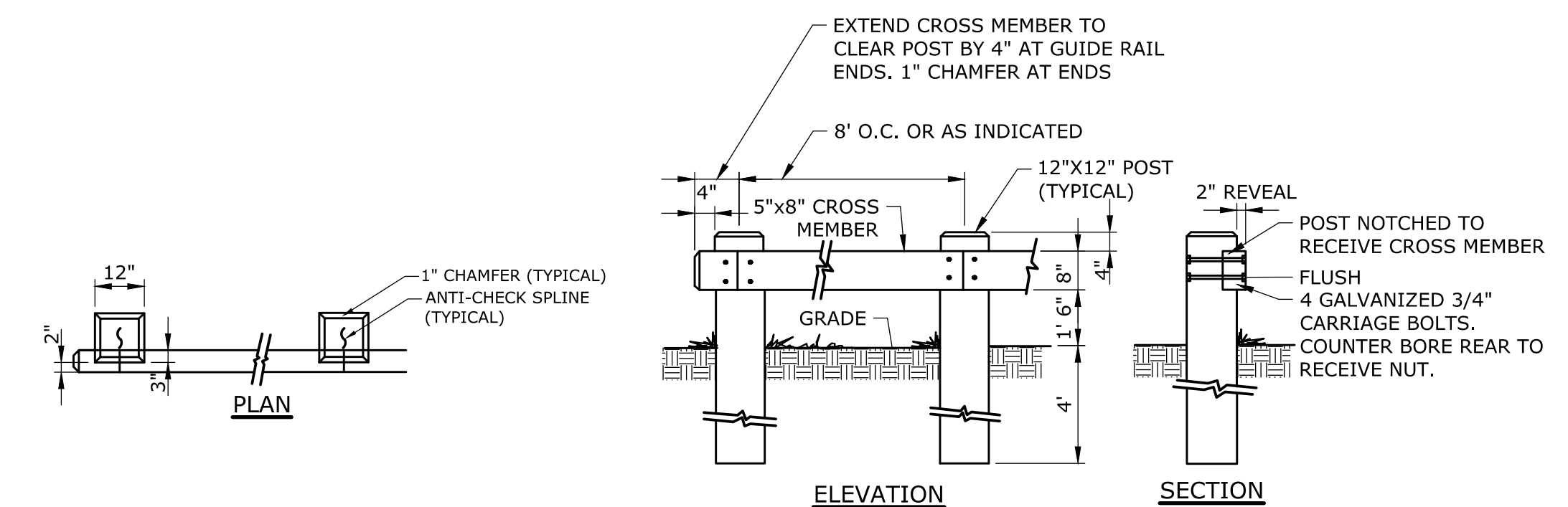


- NOTES:**
1. UNLESS OTHERWISE DIRECTED SHREDDED MULCH SHALL BE PLACED TO A LIMIT OF ONE FOOT BEYOND THE CENTER OF THE OUTERMOST SHRUBS IN SHRUB BED.

SHRUB PLANTING
NOT TO SCALE



BITUMINOUS CONCRETE CURB
NOT TO SCALE



TIMBER GUIDE RAIL
NOT TO SCALE

DESCRIPTION	DATE	BY

JRH	JRH	DLO
DESIGNED	DRAWN	CHECKED
SCALE		
AS NOTED		
DATE		
MAY 2, 2022		
PROJECT NO.		
5956-01		
SHEET NO.		
15 OF 19		

