

SITE PLAN FOR SHELDON WEST 1139 WEST STREET WRENTHAM, MA 02093

TOWN OF WRENTHAM – PLANNING BOARD	
SIGNATURE	DATE

HOWARD STEIN HUDSON
114 Turnpike Road, Suite 2C
Chelmsford, MA 01824
www.hshassoc.com

PREPARED FOR:
SHELDON WEST, LLC
480 TURNPIKE STREET
SOUTH EASTON, MA 02375

SHELDON WEST
1139 WEST STREET
WRENTHAM, MA 02093
NORFOLK COUNTY

GENERAL NOTES:

1. EXISTING PROPERTY LINE AND UTILITY INFORMATION SHOWN IS BASED ON AN EXISTING SURVEY CONDUCTED BY WSP, USA DATED FEBRUARY 14, 2020, AND REVISED APRIL 20, 2021.
2. WETLAND FLAGS SHOWN HEREON WERE DELINEATED BY WILLIAMS & SPARAGES ON JANUARY 8, 2020, AND REVISED ON MARCH 24, 2021. WETLAND FLAGS FIELD LOCATED BY WSP, USA ON MARCH 29, 2021.
3. THE ACCURACY AND COMPLETENESS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION, SIZE, TYPE, ETC. OF ALL UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THE WORK. AT LEAST 72 HOURS BEFORE EXCAVATION, THE CONTRACTOR SHALL BE REQUIRED TO CONTACT DIGSAFE AT 1-888-344-7233.
4. THE CONTRACTOR SHALL FIELD VERIFY CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
5. WHERE AN EXISTING UTILITY IS FOUND TO CONFLICT WITH THE PROPOSED WORK, THE LOCATION, ELEVATION, AND SIZE OF THE UTILITY SHALL BE APPROPRIATELY DETERMINED WITHOUT DELAY BY THE CONTRACTOR AND THE INFORMATION FURNISHED TO THE ENGINEER FOR RESOLUTION.
6. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE NOTIFIED, INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN, PRIOR TO EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION OR REPAVING.
7. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED TO BE ABANDONED, REMOVED, OR DISPOSED.
8. THE CONTRACTOR SHALL DISPOSE OF ALL WASTE MATERIAL IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AT HIS/HER OWN EXPENSE, OUTSIDE OF THE PROJECT LIMITS.

OWNER
JOHN HASENJAEGER
23 PINNACLE DRIVE
EAST WALPOLE, MA 02032

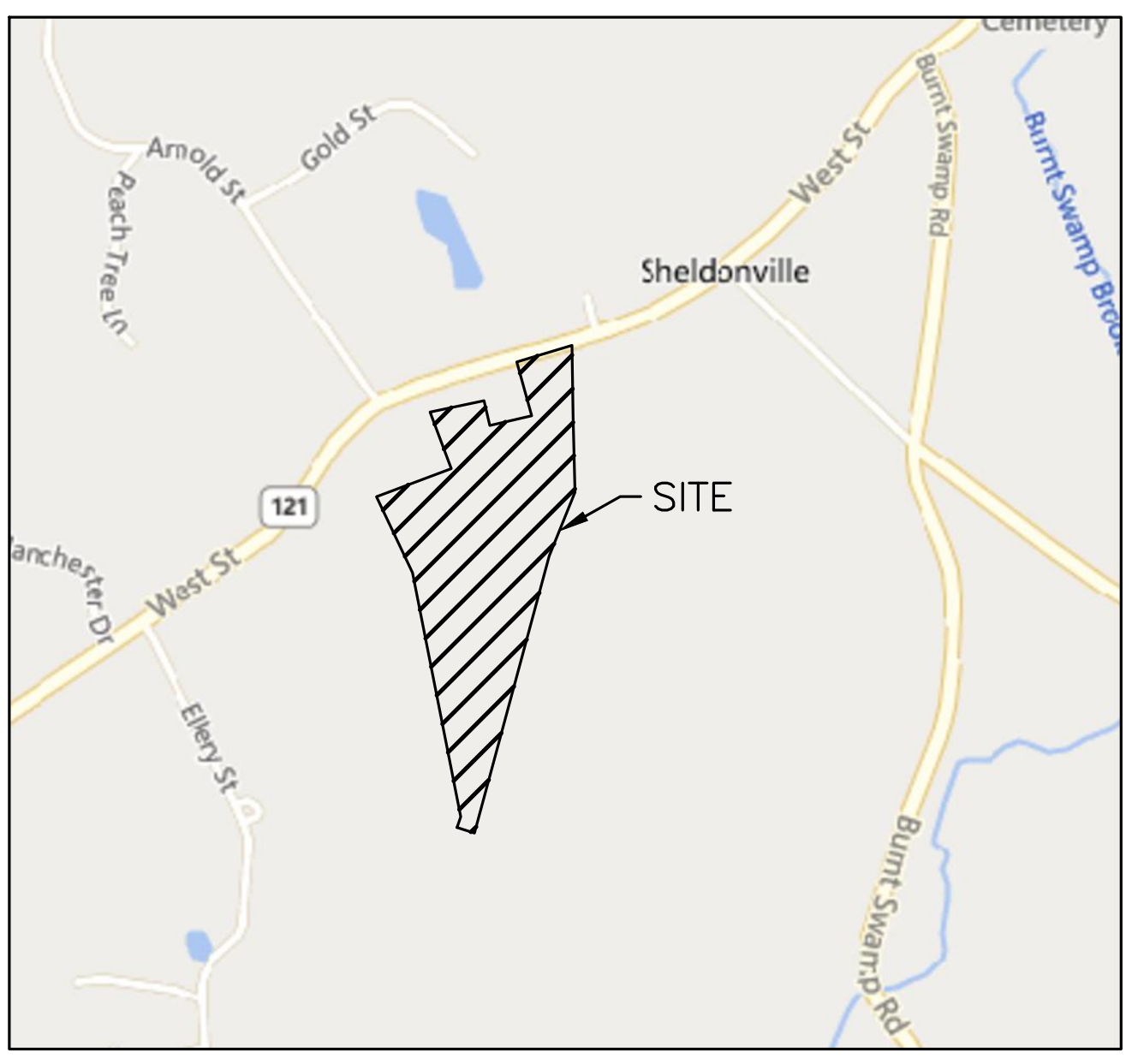
APPLICANT
SHELDON WEST, LLC
480 TURNPIKE STREET
SOUTH EASTON, MA 02375

ASSESSORS INFORMATION
ASSESSORS MAP G-03 BLOCK 1 LOT 14

- REFERENCES**
1. EXISTING CONDITIONS SURVEY BY WSP DATED 2-14-2020 REVISED THROUGH 10-06-2022.
 2. WRENTHAM, MA GIS SERVICE.
 3. WRENTHAM, MA AQUIFER PROTECTION DISTRICT MAP DATED NOVEMBER 2006.
 4. ZONING MAP OF WRENTHAM MASSACHUSETTS DATED 10-04-2019

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LOCUS MAP
1"=800'

PROJECT TEAM

APPLICANT
SHELDON WEST, LLC
480 TURNPIKE STREET
SOUTH EASTON, MA 02375

CIVIL ENGINEER
HOWARD STEIN HUDSON
114 TURNPIKE RD, SUITE 2C
CHELMSFORD, MA 01824

SURVEYOR
WSP USA, LLC
9 EXECUTIVE PARK DRIVE
SUITE 101
MERRIMACK, NH 03054

WETLAND SCIENTIST
GREGORY HOCHMUTH
WILLIAMS & SPARAGES
189 NORTH MAIN STREET
MIDDLETON, MA 01949

ARCHITECT
LAGRASSE YANOWITZ & FEYL ARCHITECTS
1 ELM SQUARE
ANDOVER, MA 01810

LANDSCAPE ARCHITECT
JAMES K. EMMANUEL ASSOCIATES
22 CARLTON ROAD
MARBLEHEAD MA 01945

LIGHTING CONSULTANT
REFLEX LIGHTING
7 TIDE STREET
BOSTON, MA 02210

ZONING REQUIREMENTS

ZONING DISTRICT: R-87 (AGRICULTURAL AND RESIDENTIAL)
OVERLAY DISTRICT: WATERSHED PROTECTION DISTRICT
OVERLAY DISTRICT: AQUIFER PROTECTION DISTRICT
SPECIAL REQUIREMENTS: SENIOR LIVING COMMUNITY (SLC)
DIMENSIONAL REQUIREMENTS:

TOTAL LAND AREA (SLC)	871,200 (20 AC)	PROPOSED	888,602 SF (20.4 AC)
DEVELOPABLE SITE AREA	-		243,855 SF (5.59 AC)
CONTINUOUS LOT FRONTAGE (SLC)	100 FT		253± FT
MINIMUM FRONT YARD (SLC)	30 FT		323± FT
MINIMUM SIDE YARD (SLC)	30 FT		80± FT
MINIMUM REAR YARD (SLC)	30 FT		1,486± FT
SITE COVERAGE OF BUILDINGS	<35%		2.2%
USABLE OPEN SPACE*	>30%		35%±
IMPERVIOUS AREA	-		88,034 SF ±
IMPERVIOUS AREA/TOTAL AREA	-		9.9%
MAXIMUM STORIES (SLC)	2		2
MAXIMUM BUILDING HEIGHT (SLC)	28 FT		23'-8"
MAXIMUM DENSITY	4 UNITS/ACRE		0.45 UNITS/ACRE
AVG DISTANCE BETWEEN UNITS	15 FT		21.7 FT

*NO MORE THAN 25% OF THE MINIMUM REQUIRED COMMON OPEN SPACE SHALL BE WETLANDS (SEE OPEN SPACE EXHIBIT FOR BOUNDARIES OF OPEN SPACE AREA)

TOTAL SITE AREA	= 888,602 S.F.
TOTAL WETLANDS ON SITE	= 524,432 S.F.
TOTAL NON-OPEN SPACE**	= 115,841 S.F.
REQUIRED OPEN SPACE	= 888,602 * 30%
	= 266,581 S.F.
REQUIRED UPLAND	= 266,581 * 75%
	= 199,936 S.F.
ALLOWABLE WETLANDS	= 266,581 * 25%
	= 66,646 S.F.
OPEN SPACE	= 888,602 - (524,432 + 115,841)
	= 248,329 S.F.
TOTAL OPEN SPACE	= 248,329 + 66,646
	= 314,975 S.F.
	= 314,975 / 888,602
	= 100 * 0.35
	= 35%

** TOTAL OF BUILDING, PAVEMENT, SWALE, AND INFILTRATION BASIN.

CONSERVATION ALTERATIONS

ALTERATIONS WITHIN:

100' WETLAND BUFFER AREA:	14,218± SF	LENGTH OF EXTERIOR EROSION CONTROL BARRIER (SILT FENCE & COMPOST SOCK) = 2,262± LF
50' WETLAND BUFFER AREA:	0 SF	
200' RIPARIAN AREA:	0 SF	
100' RIPARIAN AREA:	0 SF	
100' POTENTIAL VERNAL POOL BUFFER:	0 SF	DISTANCE BETWEEN WORK NEAREST THE: WETLAND: 67' RIVER: 203' VERNAL POOL: 100' (SEE SHEET 14 FOR DIMENSIONS)

PARKING REQUIREMENTS

SINGLE FAMILY OR COTTAGE STYLE DWELLING: TWO (2) SPACES PER UNIT
GUEST PARKING: ONE (1) SPACE PER TWO (2) UNITS OR THREE (3) BEDS
REQUIRED PARKING SPACES:
9 UNITS x 2 SPACES/UNIT = 18 SPACES
9 UNITS x 1 SPACE PER 2 UNITS = 5 SPACES
TOTAL PARKING SPACES REQUIRED: 18 SPACES + 5 SPACES
= 23 PARKING SPACES REQUIRED
PARKING SPACES PROVIDED: (SEE TABLE BELOW)
= 59 PARKING SPACES PROVIDED

TYPE	REQ.	PROP.
UNIT GAR. SPACES	18	18
UNIT EXTERIOR SPACES	5	18
SHARED/GUEST PARKING	5	23
TOTAL PARKING	23	59

SITE PLAN AND SPECIAL PERMITS REQUIRED

1. ARTICLE 13.5 – SENIOR LIVING COMMUNITY
2. ARTICLE 14 – EARTH REMOVAL
3. ARTICLE 5 – WATERSHED PROTECTION DISTRICT

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KL	9/13/22	PEER REVIEW
2	KL	11/11/22	TOWN/PEER REVIEW
3	KL	12/8/22	TOWN REVIEW



SITE PLAN

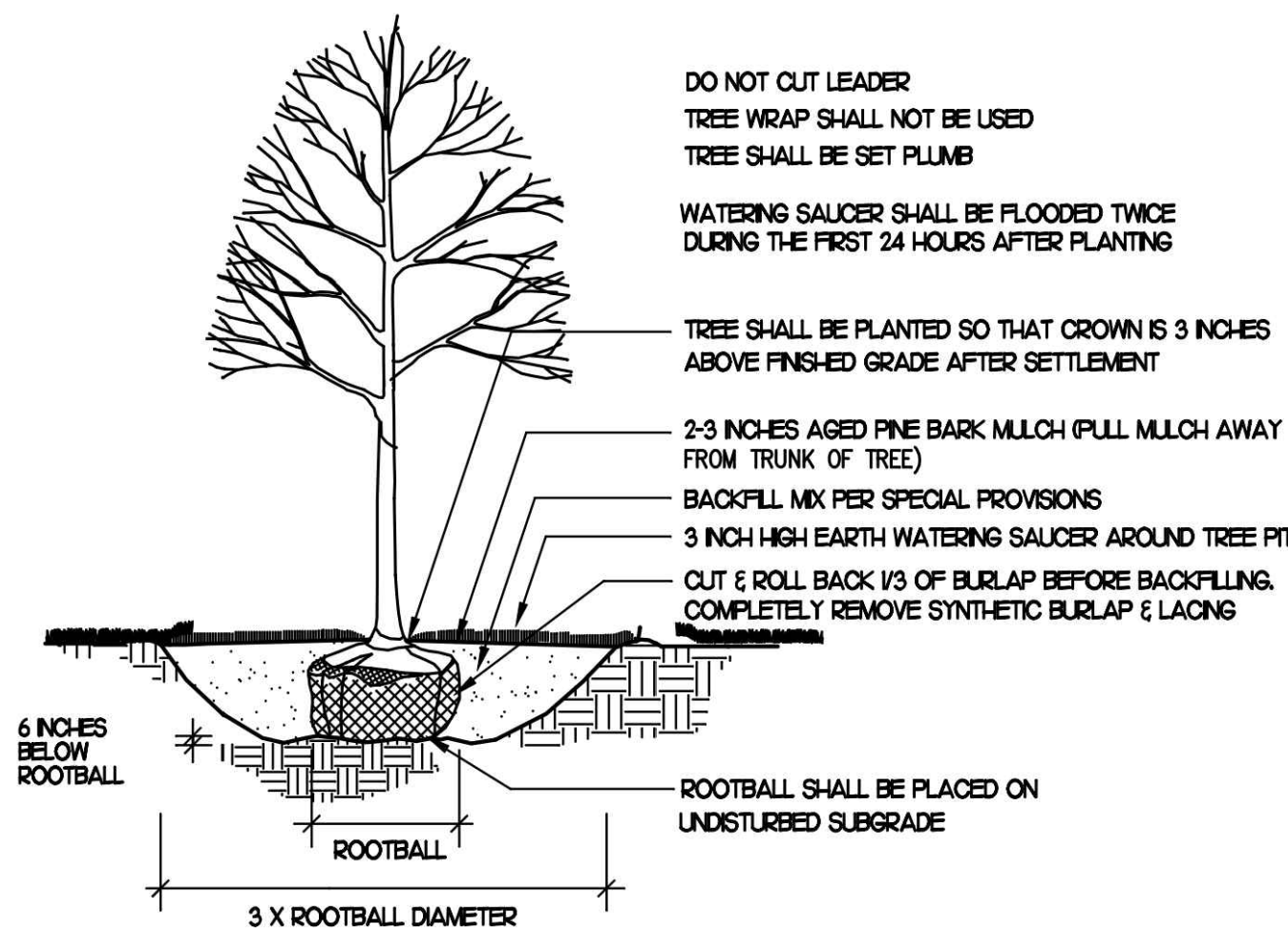
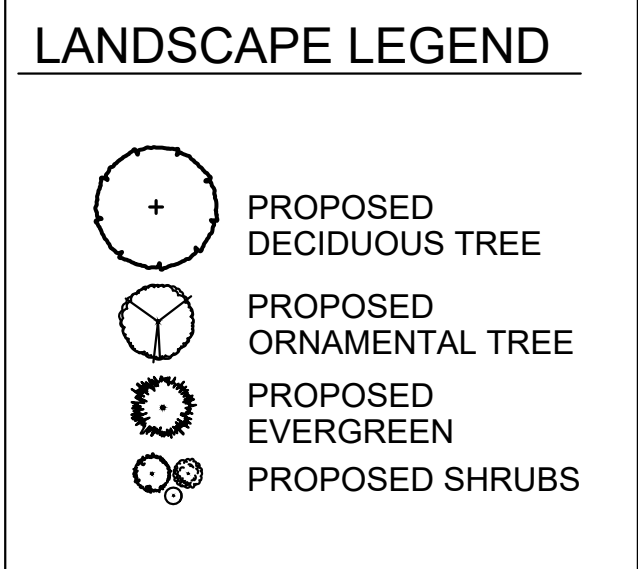
COVER SHEET

DATE:	APRIL 11, 2022
PROJECT NUMBER:	19227.01
DESIGNED BY:	KF/KL/MB
DRAWN BY:	KF/KL/MB
CHECKED BY:	KE
C1.1	
SHEET 1 OF 36	

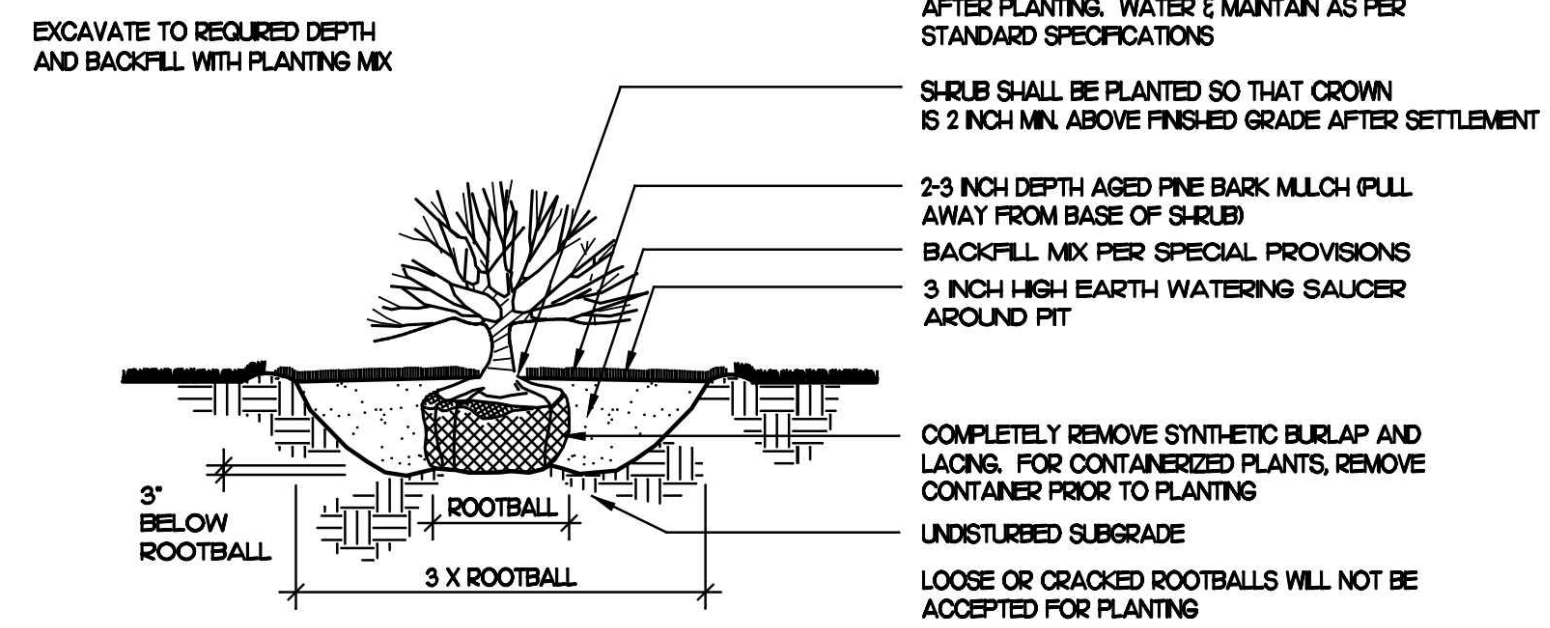
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Plot Saved by: MBK/ER
Printed by: Matthew Butler

TOWN OF WRENTHAM – PLANNING BOARD

SIGNATURE DATE



1 TREE PLANTING DETAIL
 NOT TO SCALE



2 SHRUB PLANTING DETAIL
 NOT TO SCALE

DECIDUOUS TREE PLANTINGS 32 TOTAL THROUGHOUT SITE

Plant Schedule

	Botanical Name	Common Name	Size
DECIDUOUS TREE OPTIONS:			
	<i>Acer rubrum</i> 'Red Sunset'	Red Sunset Maple	2"cal
	<i>Acer saccharum</i> 'Green Mountain'	Sugar Maple	2"cal
**	<i>Carpinus caroliniana</i>	American Hornbeam	2"cal
	<i>Carya ovata</i>	Shagbark Hickory	2"cal
	<i>Ostrya virginiana</i>	Hophornbeam	2"cal
**	<i>Platanus x acerifolia</i>	London Planetree	2"cal
**	<i>Quercus coccinea</i>	Scarlet Oak	2"cal
**	<i>Quercus palustris</i>	Pin Oak	2"cal
**	<i>Tilia americana</i>	Basswood	2"cal
**	<i>Tilia cordata</i> 'Greenspire'	Greenspire Linden	2"cal
**	<i>Zelkova serrata</i>	Japanese Zelkova	2"cal

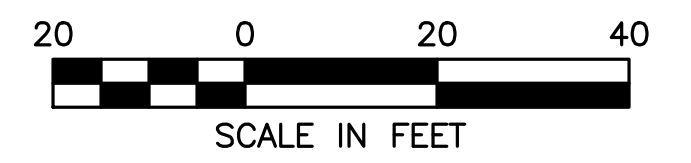
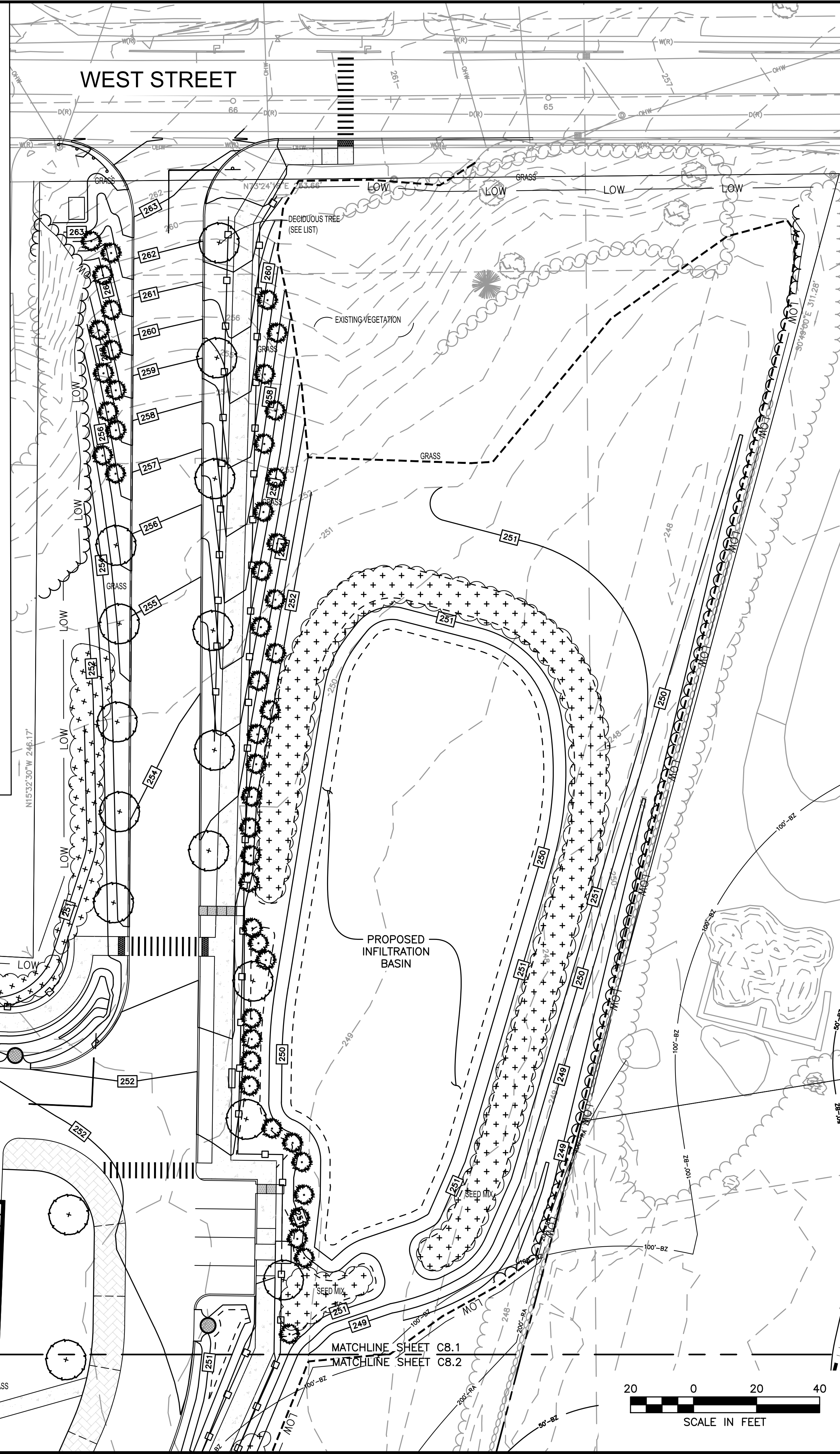
EVERGREEN TREE OPTIONS:

	<i>Juniperus virginiana</i>	Eastern Red Cedar	6'
	<i>Chamaecyparis thuyoides</i>	Atlantic White Cedar	6'

95 TOTAL

Conservation Seed Mix

Creeping Red Fescue, (*Festuca rubra*), Canada Wild Rye, (*Elymus canadensis*), Annual Ryegrass, (*Lolium multiflorum*), Perennial Ryegrass, (*Lolium perenne*), Blue Grama, (*Bouteloua gracilis*), Little Bluestem, (*Schizachyrium scoparium*), Indian Grass, (*Sorghastrum nutans*), Rough Bentgrass, (*Agrostis scabra*), Upland Bentgrass, (*Agrostis perennans*)
 APPLICATION RATE: 35 lb/acre | 1250 sq ft/lb



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3	KL	12/8/22	TOWN REVIEW

SITE PLAN

LANDSCAPE PLANS
 SHEET 1 OF 2

DATE: APRIL 11, 2022
 PROJECT NUMBER: 19227.01
 DESIGNED BY: KF/KL/MB
 DRAWN BY: KF/KL/MB
 CHECKED BY: KE
 C8.1

12/6/2022 L:\19227\West St - CURRENT\19227 - Landscape.dwg
 Plot Saved by: MBK/GER
 Printed by: Matthew Geller



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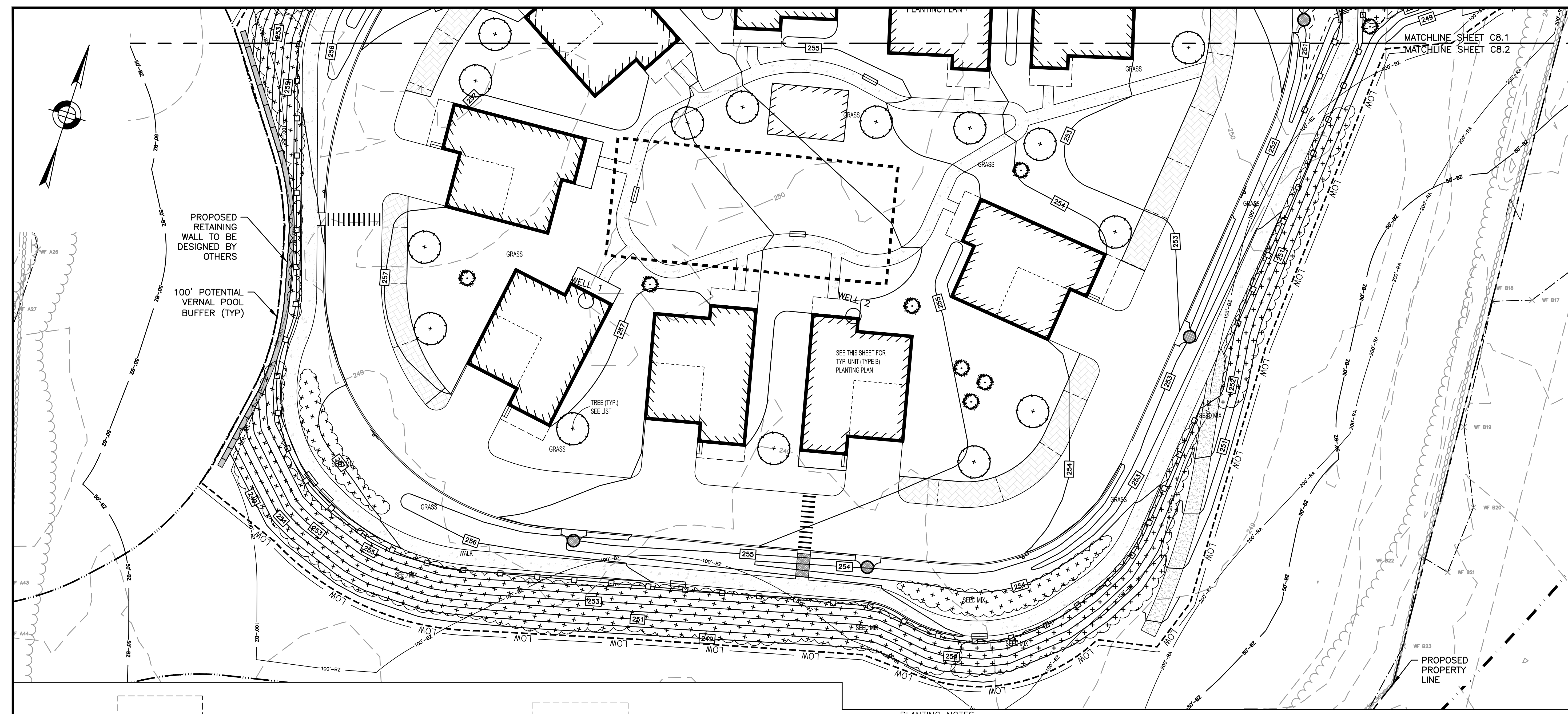
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NO	BY	DATE	DESCRIPTION
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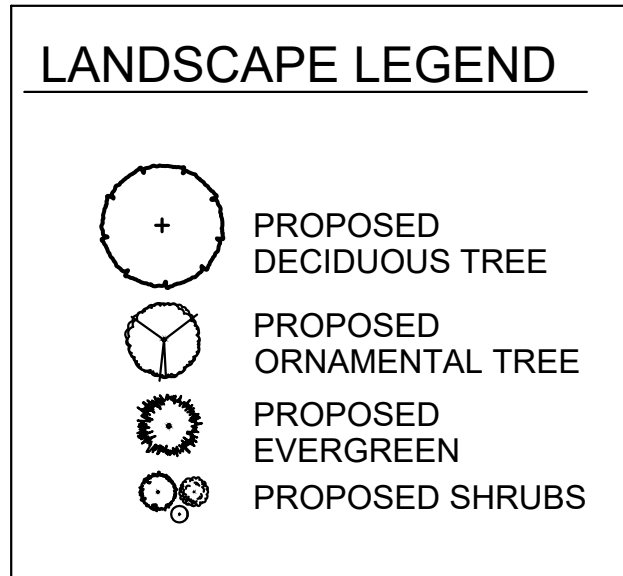
SITE PLAN

LANDSCAPE PLANS
 SHEET 2 OF 2

DATE: APRIL 11, 2022
 PROJECT NUMBER: 19227.01
 DESIGNED BY: KF/KL/MB
 DRAWN BY: KF/KL/MB
 CHECKED BY: KE
 C8.2
 SHEET 25 OF 36



- PLANTING NOTES**
- THE NUMBER OF EACH INDIVIDUAL PLANT TYPE AND SIZE IS PROVIDED IN THE PLANT LIST FOR CONTRACTORS CONVENIENCE ONLY. IF A DISCREPANCY EXISTS BETWEEN THE NUMBER OF PLANTS ON THE LIST AND THE NUMBER SHOWN ON THE DRAWING, THE GREATER NUMBER SHALL APPLY.
 - ALL PLANT MATERIAL SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT OR THE OWNER'S REPRESENTATIVE PRIOR TO ARRIVAL ON SITE.
 - PLANT MATERIAL SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE.
 - THE CONTRACTOR SHALL LOCATE AND MARK ALL UTILITIES PRIOR TO PLANTING. ANY CONFLICTS BETWEEN PLANTING AND UTILITIES SHALL BE IMMEDIATELY REPORTED TO THE LANDSCAPE ARCHITECT SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
 - NO SUBSTITUTION OF PLANT MATERIALS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTS AGAINST DAMAGE FROM ON-GOING CONSTRUCTION. PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL FORMAL ACCEPTANCE OF ALL PLANTING.
 - ALL DISTURBED AREAS NOT OTHERWISE DEVELOPED SHALL BE LOAMED 6" AND SEEDED.



- GENERAL LANDSCAPE NOTES:**
- AREAS NOT OTHERWISE DEVELOPED SHALL RECEIVE MINIMUM 6" COMPACTED DEPTH SCREENED LOAM.
 - EXISTING LOAM TO BE STOCKPILED FOR REUSE.
 - FINISH COVER OVER PLANTING BED SHALL INCLUDE 3" MINIMUM DEPTH PINE MULCH.
 - FINISH SURFACE SHALL BE GRADED FROM A HIGH POINT AT CENTER OF ISLAND OUT TO THE BACK OF CURB. SEE GRADING, DRAINAGE AND PAVING PLAN FOR FINISH GRADES.
 - AT A MINIMUM, TREES AND SHRUBS SHALL BE WATERED BY FLOODING AS FOLLOWS: MONTH 0-3: ONCE PER WEEK MONTH 3-6: TWICE PER MONTH MONTH 6-12: ONCE PER MONTH INCREASE WATERING FREQUENCY TO ACCOUNT FOR DROUGHT CONDITIONS AS REQUIRED.
 - TURF AREAS TO BE WATERED AND MOWED UNTIL ACCEPTED.
 - CONSERVATION SEED MIX AREA TO BE WATERED IF NECESSARY FOR ESTABLISHMENT.
 - PROPOSED SEED MIX WITHIN CONSERVATION JURISDICTIONAL BUFFERS TO BE FREE OF INVASIVE SPECIES AND APPROVED BY A LICENSED WETLAND SCIENTIST.
 - ONLY RED CEDAR AND WHITE CEDAR TREES ARE TO BE PLANTED WITHIN CONSERVATION JURISDICTIONAL BUFFERS.

Plant Schedule - Single Family Unit (typ.)

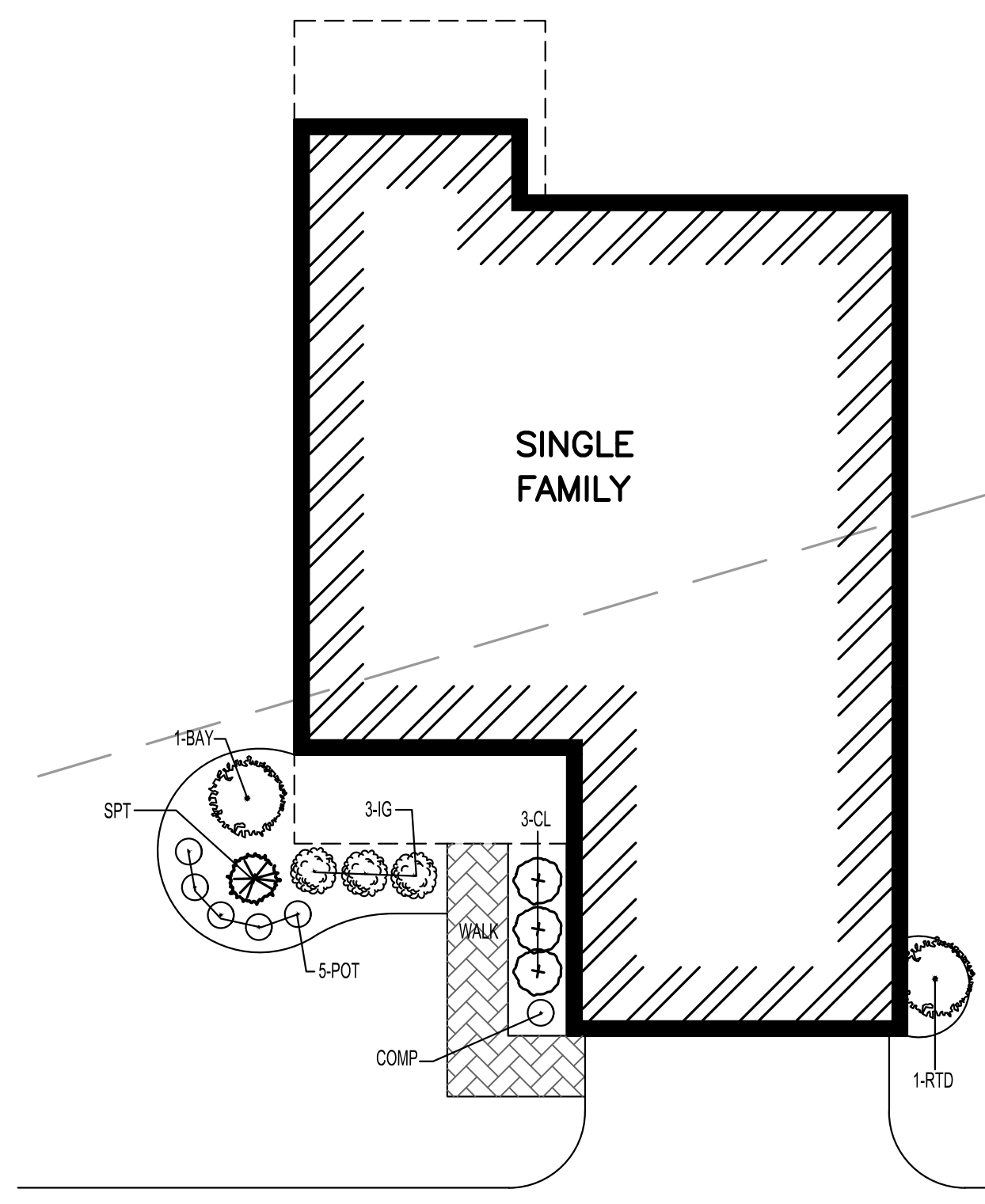
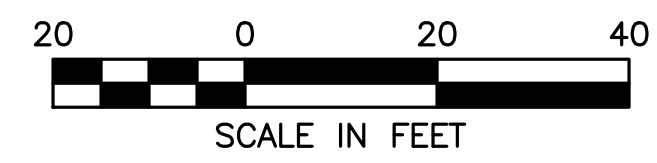
Qty	Key	Botanical Name	Common Name	Size
SHRUBS:				
1	BAY	Myrica pensylvanicum	Northern Bayberry	#3pot
3	CL	Clethra alnifolia	Sweet Pepper	2-3'
1	COMP	Comptonia peregrina	Sweetfern	#3pot
3	IG	Ilex glabra 'Shamrock'	Shamrock Inkberry	2-2.5'
5	POT	Potentilla 'Abbotswood'	Abbotswood Potentilla	#3pot
1	RTD	Cornus alba 'Elegantissima'	Variegated Red Twig Dogwood	#3pot
1	SPT	Spirea tomentosa	Steeplebush	#3pot

9 TOTAL SINGLE FAMILY UNITS

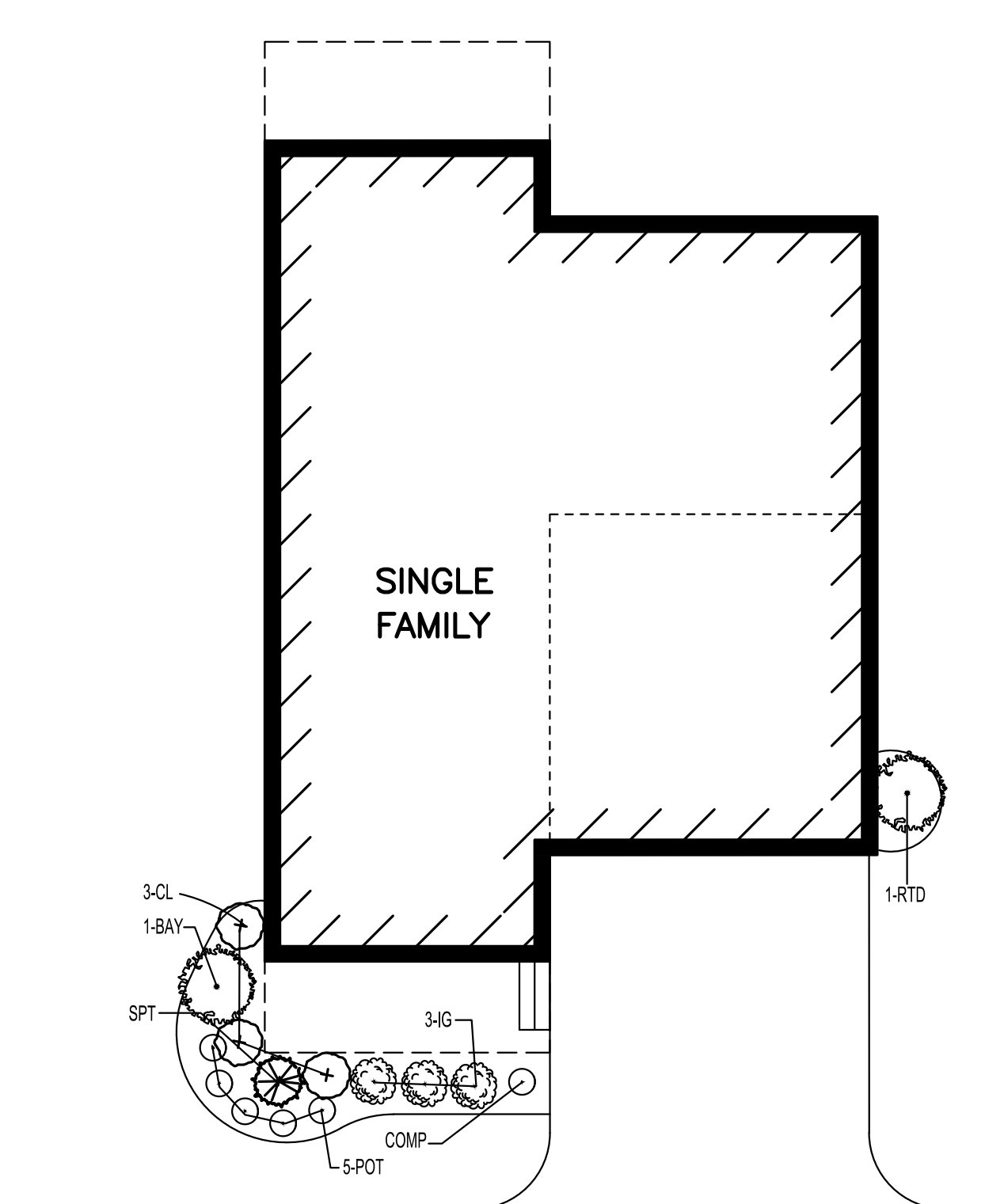
TOWN OF WRENTHAM - PLANNING BOARD

 SIGNATURE

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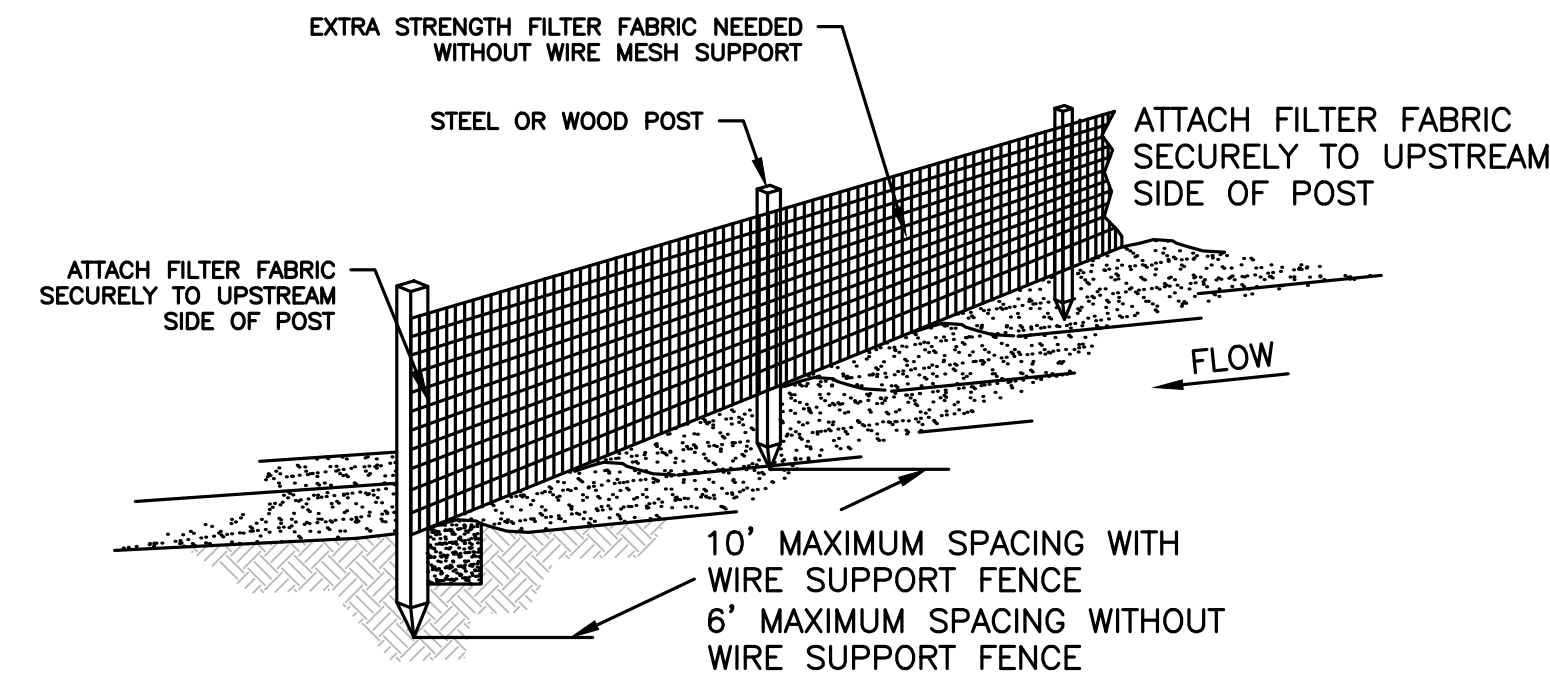
TYPICAL SINGLE FAMILY HOME PLANTING
 TYPE A
 1" = 10'



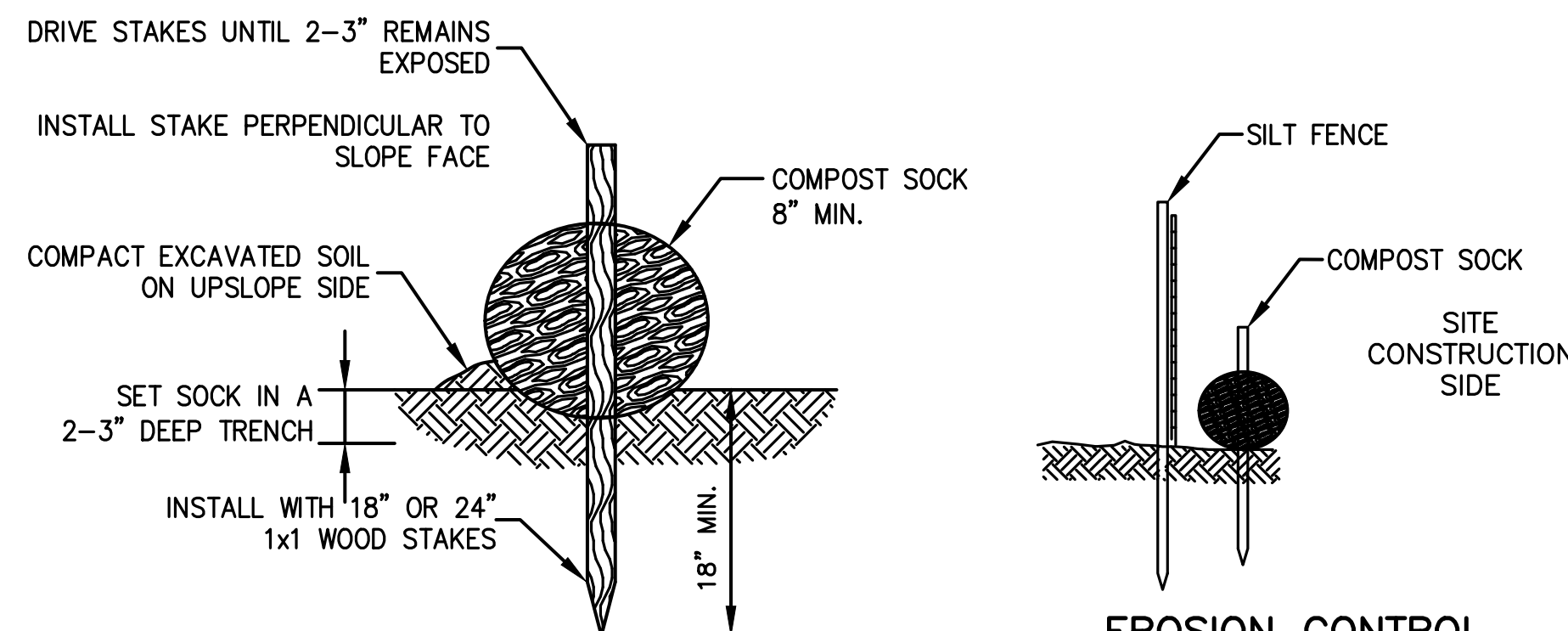
TYPICAL SINGLE FAMILY HOME PLANTING
 TYPE B
 1" = 10'

GENERAL CONSTRUCTION SEQUENCE

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO COMPOST SOCK, SILT FENCING, AND CONSTRUCTION ENTRANCES PRIOR TO THE START OF ANY EARTHWORKS ACTIVITY.
2. SETUP STOCKPILE AREAS AND CONSTRUCTION MATERIAL STOCKPILE STORAGE AREAS.
3. CONSTRUCT TEMPORARY SEDIMENT BASINS.
4. INSTALL PROTECTION MEASURES FOR ALL ITEMS NOTED TO REMAIN ON THE PLANS.
5. IDENTIFY LIMITS OF CLEARING. BEGIN CLEARING AND GRUBBING.
6. PERFORM PRELIMINARY GRADING AND CONSTRUCT BUILDING FOUNDATIONS.
7. CONSTRUCT STORMWATER MANAGEMENT SYSTEM.
8. INSTALL UNDERGROUND UTILITIES.
9. PERFORM FINAL GRADING, INSTALL BINDER PAVEMENT COURSE.
10. INSTALL PAVEMENT TOP COURSE.
11. CONSTRUCT SIDEWALKS AND FINAL SITE IMPROVEMENTS.
12. INSTALL PAVEMENT MARKINGS, STREET SIGNAGE AND FINAL LANDSCAPING.
13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT COVER IS ESTABLISHED.



SILT FENCE DETAIL
NOT TO SCALE



COMPOST SOCK DETAIL
NOT TO SCALE

EROSION CONTROL BARRIER DETAIL
NOT TO SCALE

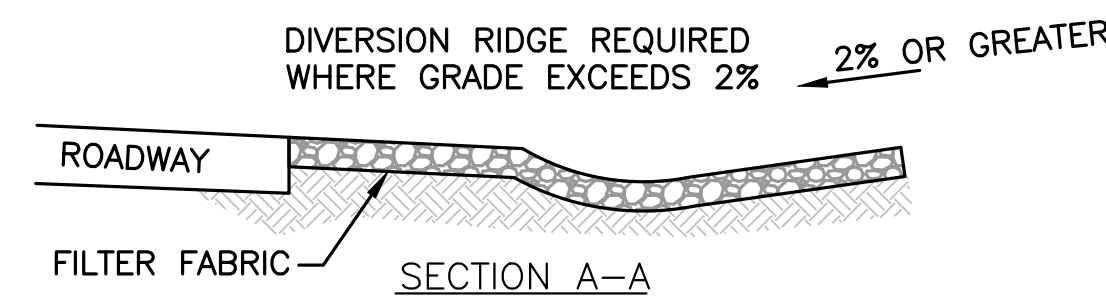
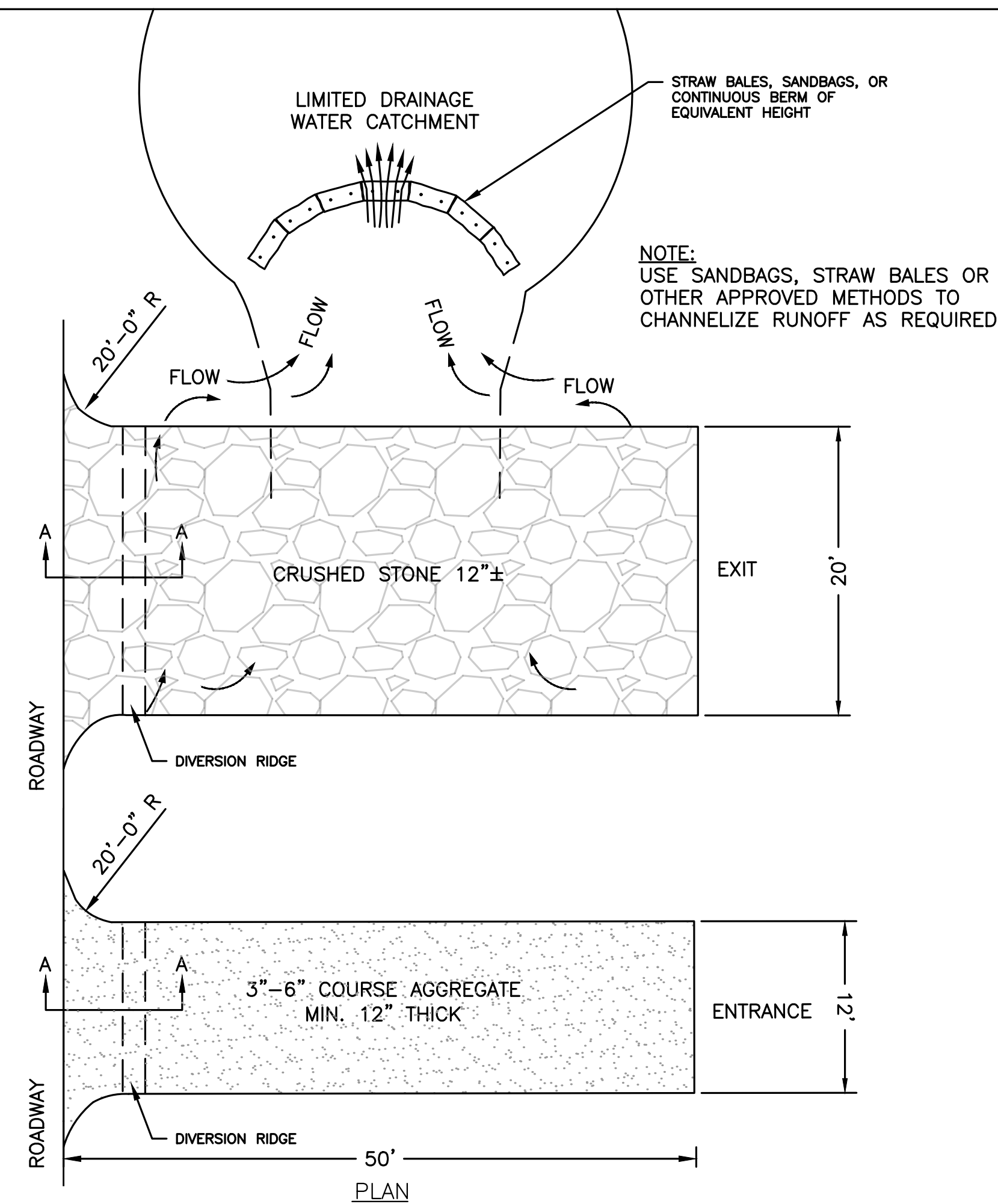
NOTES (GENERAL):

1. EROSION CONTROL BARRIER SHALL CONSIST OF COMPOST SOCK AND SILT FENCE BACKING AS SHOWN IN THE ABOVE DETAIL.
2. EROSION CONTROL BARRIER SHALL BE PLACED AROUND ALL MATERIAL STOCKPILE AREAS AND MAINTAINED AT STAGING AREAS TO ASSURE NO SILTATION ONTO PUBLIC OR PRIVATE WAYS OR PROPERTY.

NOTES (COMPOST SOCK):

1. BEGIN AT THE LOCATION WHERE THE SOCK IS TO BE INSTALLED BY EXCAVATING A 2-3"(5-7.5 CM) DEEP X 9"(22.9 CM) WIDE TRENCH ALONG THE CONTOUR OF THE SLOPE. EXCAVATED SOIL SHOULD BE PLACED UP-SLOPE FROM THE ANCHOR TRENCH.
2. PLACE THE SOCK IN THE TRENCH SO THAT IT CONTOURS TO THE SOIL SURFACE. COMPACT SOIL FROM THE EXCAVATED TRENCH AGAINST THE SOCK ON THE UPHILL SIDE. ADJACENT SOCKS SHOULD TIGHTLY ABUT.
3. SECURE THE SOCK WITH 18-24" (45.7-61 CM) STAKES EVERY 3-4' (0.9 - 1.2 M) AND WITH A STAKE ON EACH END. (STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE SOCK LEAVING AT LEAST 2-3" (5-7.5 CM) OF STAKE EXTENDING ABOVE THE SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
4. THE FILTER TUBE EXTERIOR SHALL BE 100% ORGANIC BURLAP OR OTHER APPROVED BIODEGRADABLE MATERIAL, AND WILL BECOME INCORPORATED WITH THE ORGANIC INTERIOR MATERIAL.
5. ORGANIC MATTER CONTENT SHALL BE BETWEEN 20-100% (DRY WEIGHT BASIS) AS DETERMINED BY ASTM D2974 (METHOD A) STANDARD TEST METHODS FOR MOISTURE, ASH AND ORGANIC MATTER OF PEAT AND OTHER ORGANIC SOILS.
6. MOISTURE CONTENT SHALL BE <150% BY DRY WEIGHT (<60% BY WET WEIGHT) AS MEASURED BY ASTM D2216 STANDARD TEST METHOD FOR LABORATORY DETERMINATION OF WATER CONTENT OF SOIL AND ROCK AND ASTM D2974 (CITED ABOVE).
7. PARTICLE SIZE SHALL MEET ALL STANDARDS FOUND IN "WRENTHAM CONSERVATION COMMISSION SPECIFICATION FOR MULCH FILTER TUBES".
8. SOLUBLE SALTS IN THE ORGANIC INTERIOR MATERIAL SHALL BE <5.0 MMHOS/CM, AND THE PH OF SAME SHALL BE BETWEEN 5.5 AND 8.0.
9. SEE "WRENTHAM CONSERVATION COMMISSION SPECIFICATIONS FOR MULCH FILTER TUBES" FOR ADDITIONAL INFORMATION.

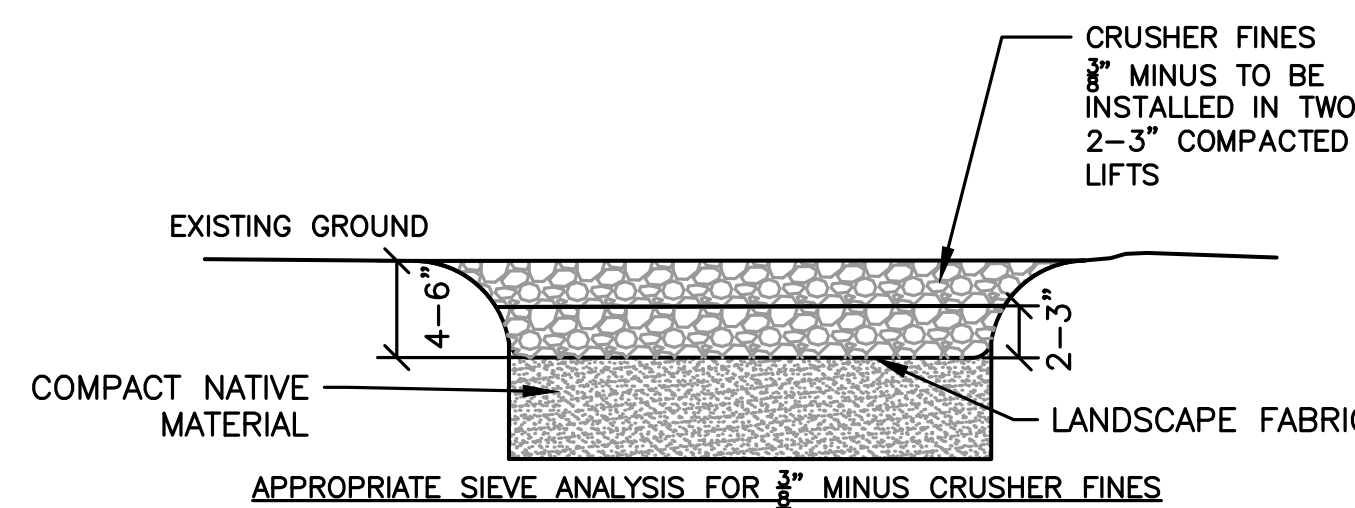
EROSION CONTROL BARRIER
NOT TO SCALE



NOTES:

1. THE EXIT SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO EXIT ONTO PUBLIC RIGHT-OF-WAY.
3. THERE WILL BE NO TRACKING OF SOIL OR MATERIALS OF ANY TYPE, INCLUDING WATER, ONTO THE ROADWAY.
4. PERSONNEL SHALL BE POSITIONED AT THE EXIT TO SUPERVISE TRAFFIC DIRECTION AND CLEAN OFF OF VEHICLES WITH PROBLEMS AND ENSURE ANY MATERIAL COVERS ARE IN PLACE.

STABILIZED CONSTRUCTION ENTRANCE/EXIT
NOT TO SCALE

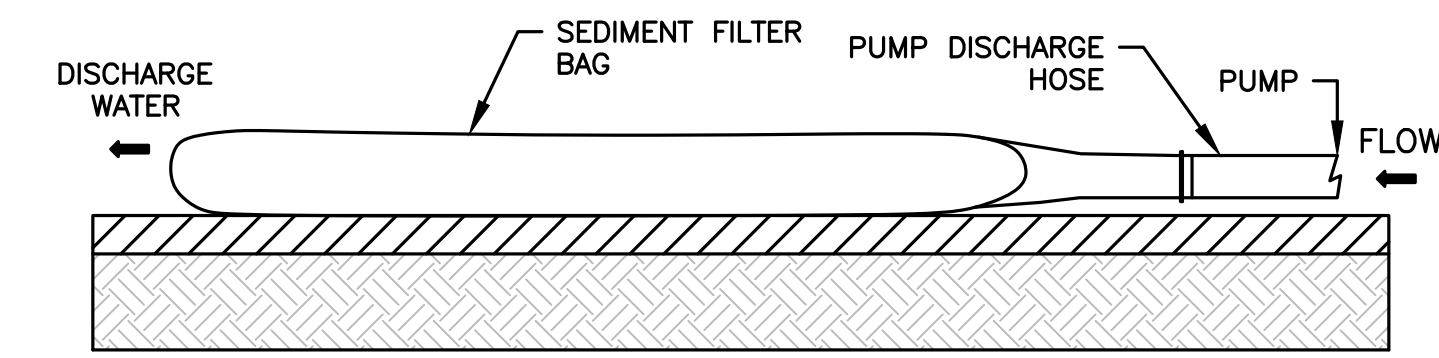


GRAVEL TRAIL PATHWAY SECTION DETAIL
NOT TO SCALE

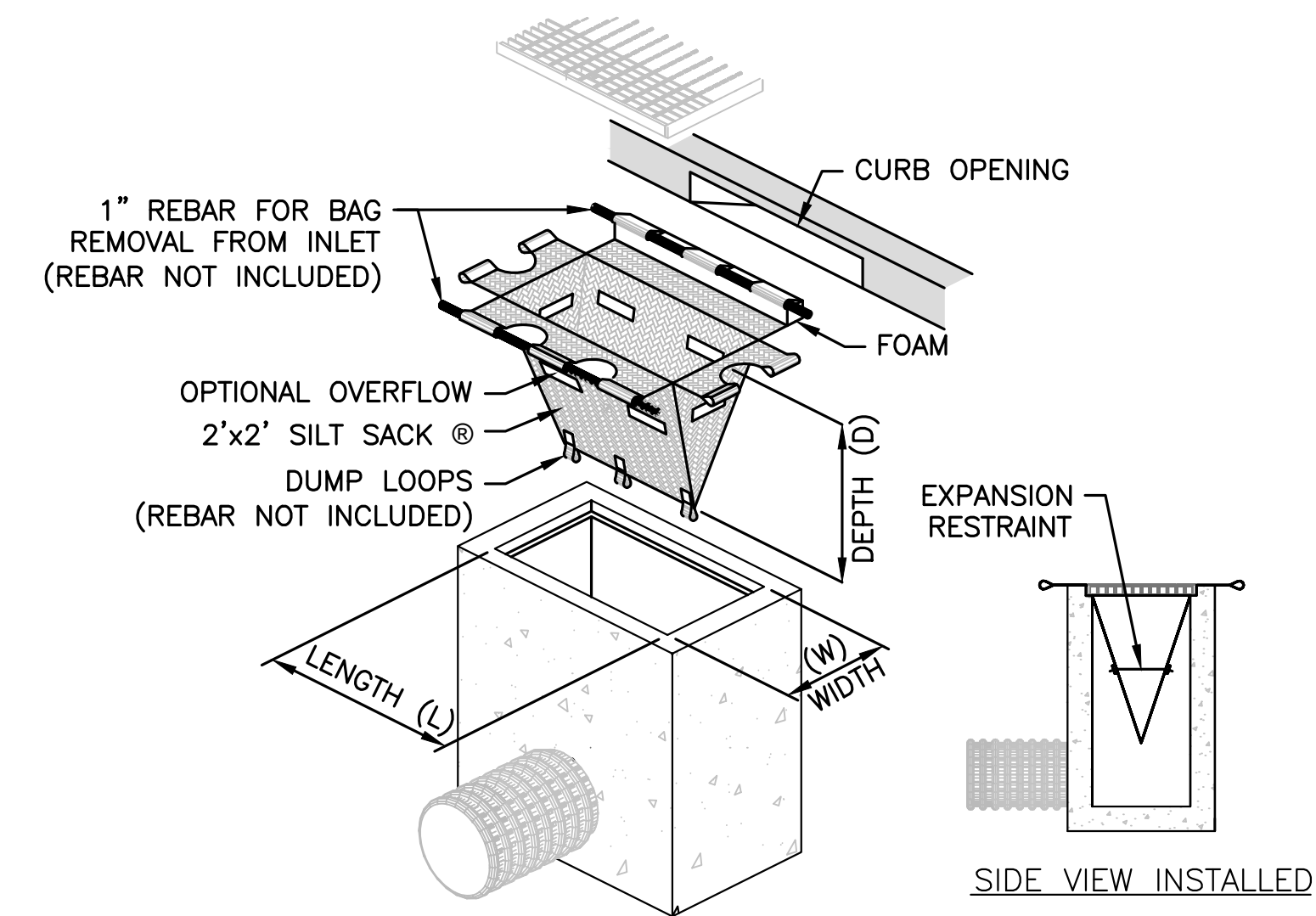
- 3/8" INCH SIEVE - 100% PASSING
- 1/2" INCH SIEVE - 65% PASSING
- 3/4" INCH SIEVE - 50% PASSING
- 1" INCH SIEVE - 35% PASSING
- 1 1/2" INCH SIEVE - 25% PASSING

TOWN OF WRENTHAM -- PLANNING BOARD

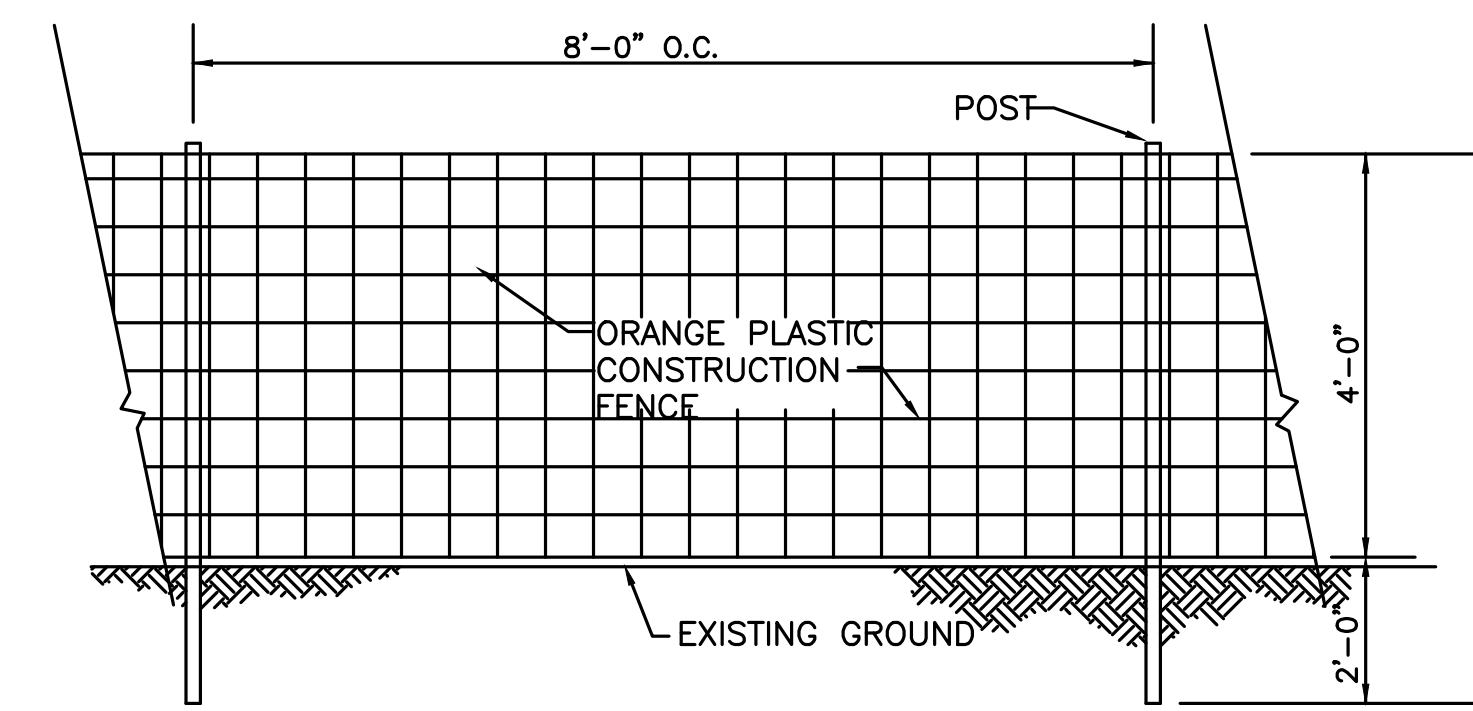
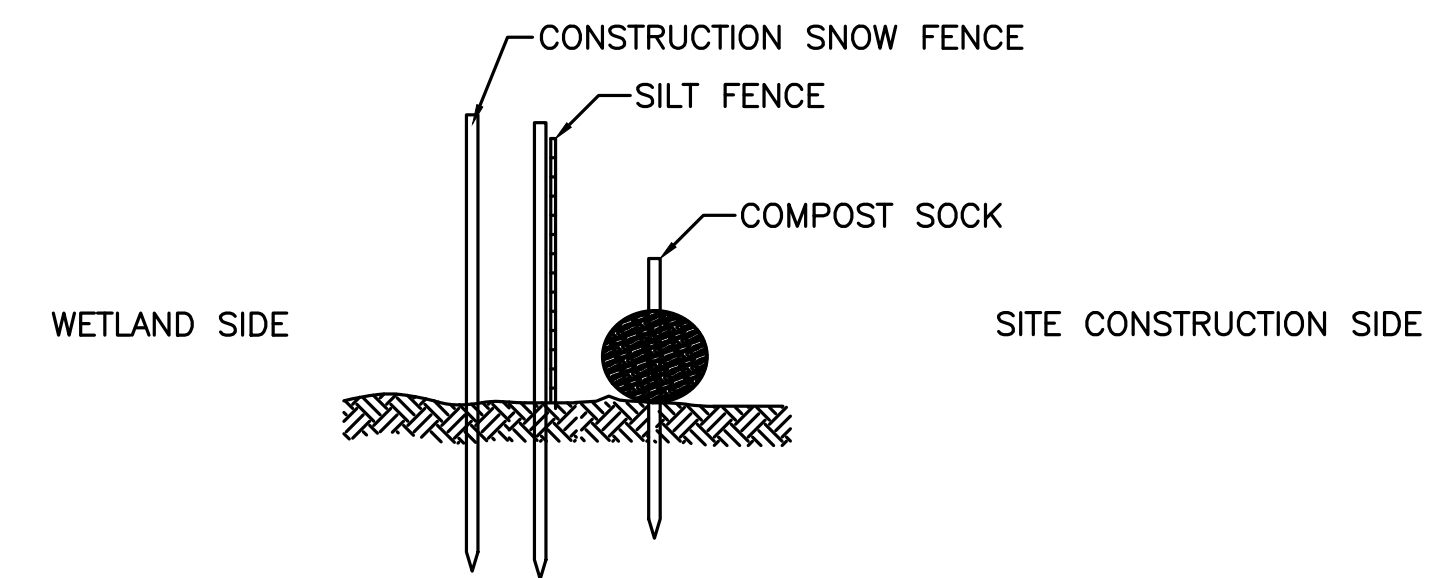
SIGNATURE _____ DATE _____



FILTER BAG
NOT TO SCALE



TEMPORARY INLET PROTECTION
NOT TO SCALE



NOTE: ORANGE PLASTIC CONSTRUCTION FENCE TO BE PLACED AT LIMIT OF WORK. SITE EROSION CONTROL MEASURES (SILT FENCE AND COMPOST SOCK) TO BE PLACED ON THE WETLAND SIDE OF FENCE.

LIMIT OF WORK FENCE
NOT TO SCALE

HOWARD STEIN HUDSON
114 Turnpike Road, Suite 2C
Chelmsford, MA 01824
www.hshassoc.com

PREPARED FOR:
SHELDON WEST, LLC
480 TURNPIKE STREET
SOUTH EASTON, MA 02375

SHELDON WEST
1139 WEST STREET
WRENTHAM, MA, 02093
NORFOLK COUNTY

REVISIONS:

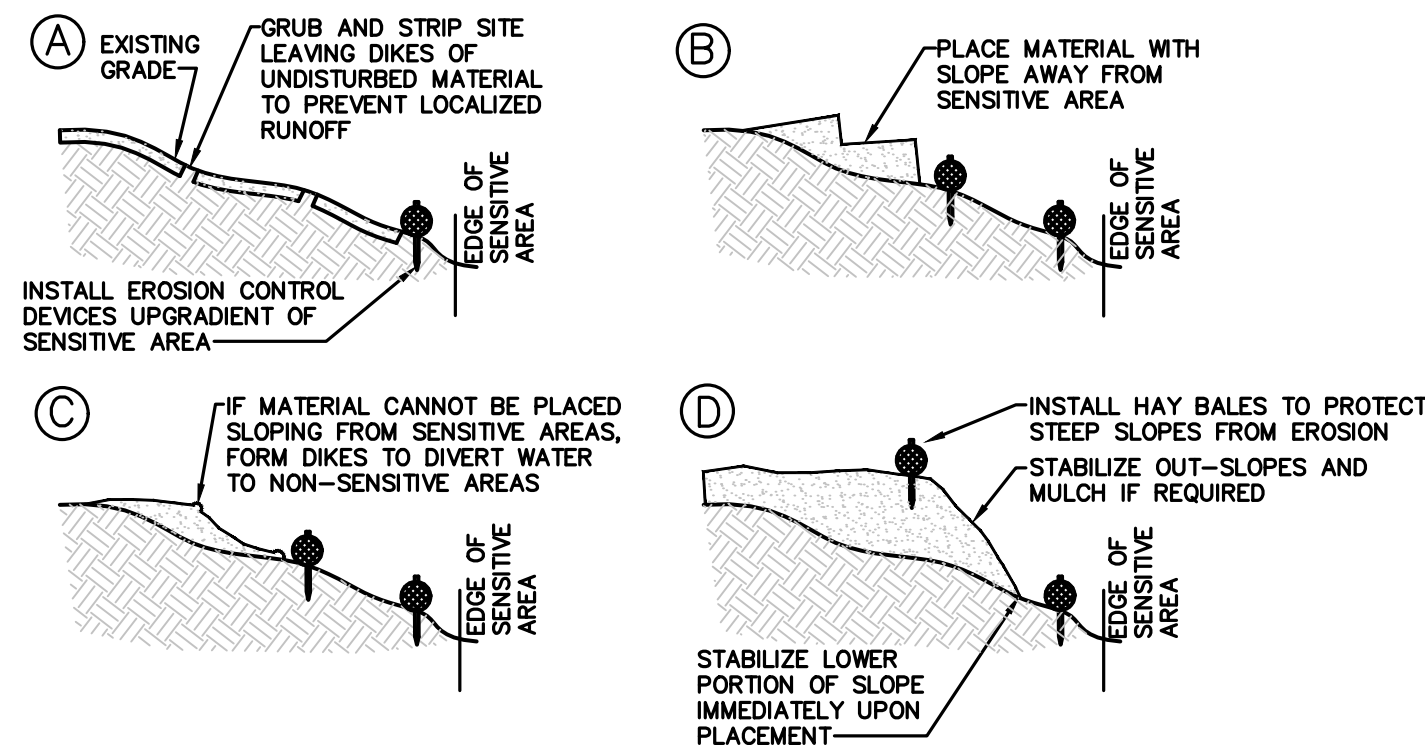
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1	KL	9/13/22	PEER REVIEW
2	KL	11/11/22	TOWN/PEER REVIEW
3	KL	12/8/22	TOWN REVIEW



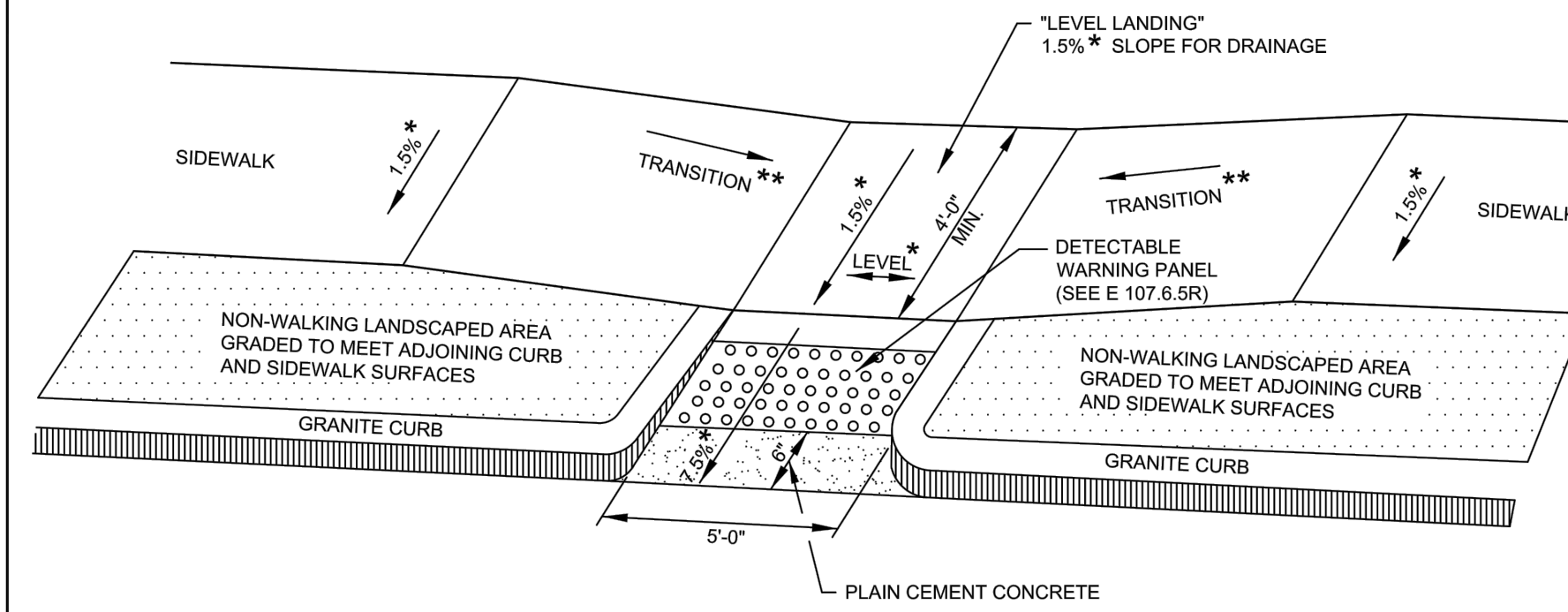
DETAIL SHEET
1 OF 9

DATE:	APRIL 11, 2022
PROJECT NUMBER:	19227.01
DESIGNED BY:	KL/MB
DRAWN BY:	KL/MB/NC
CHECKED BY:	KE

C10.1

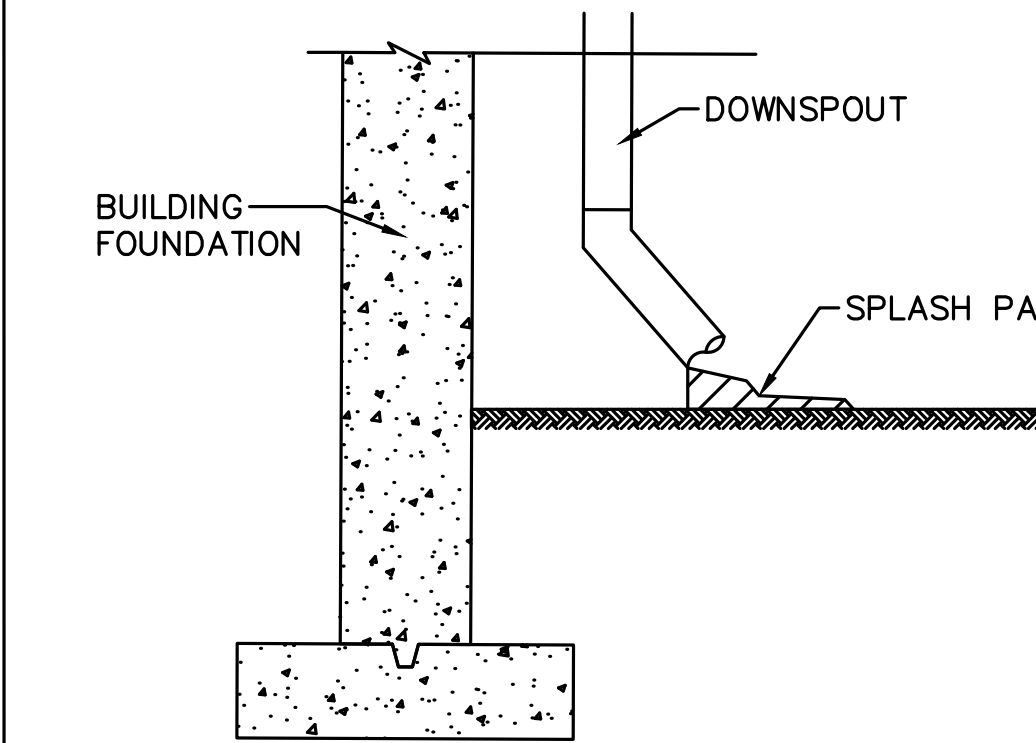


FILL PROCEDURE
NOT TO SCALE

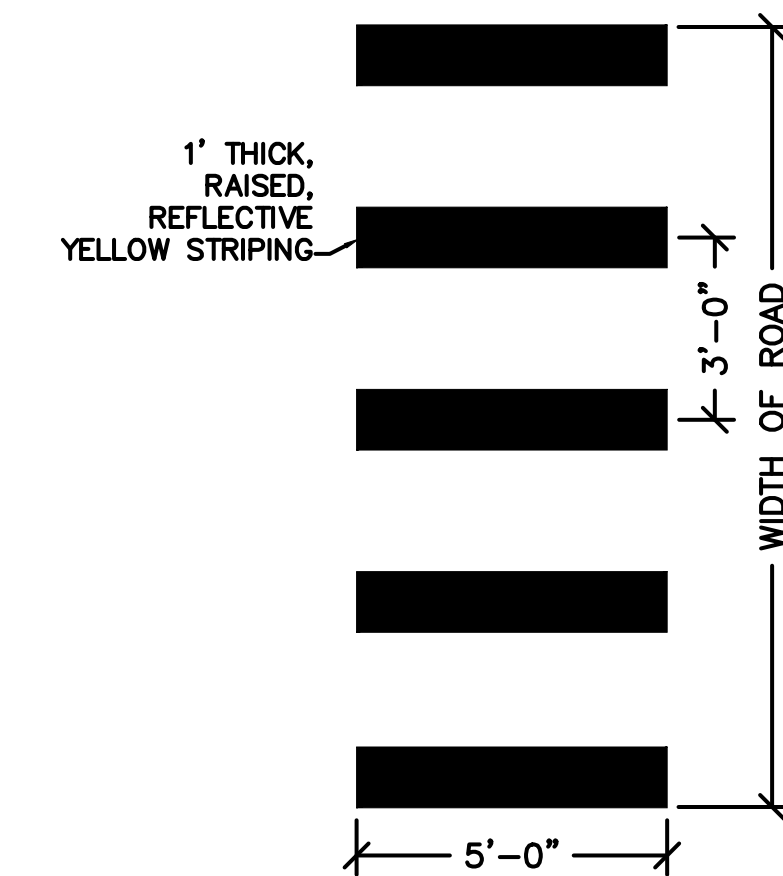


LEGEND
* = TOLERANCE FOR CONSTRUCTION ±0.5%
** = SEE E 107.9R FOR TRANSITION LENGTH

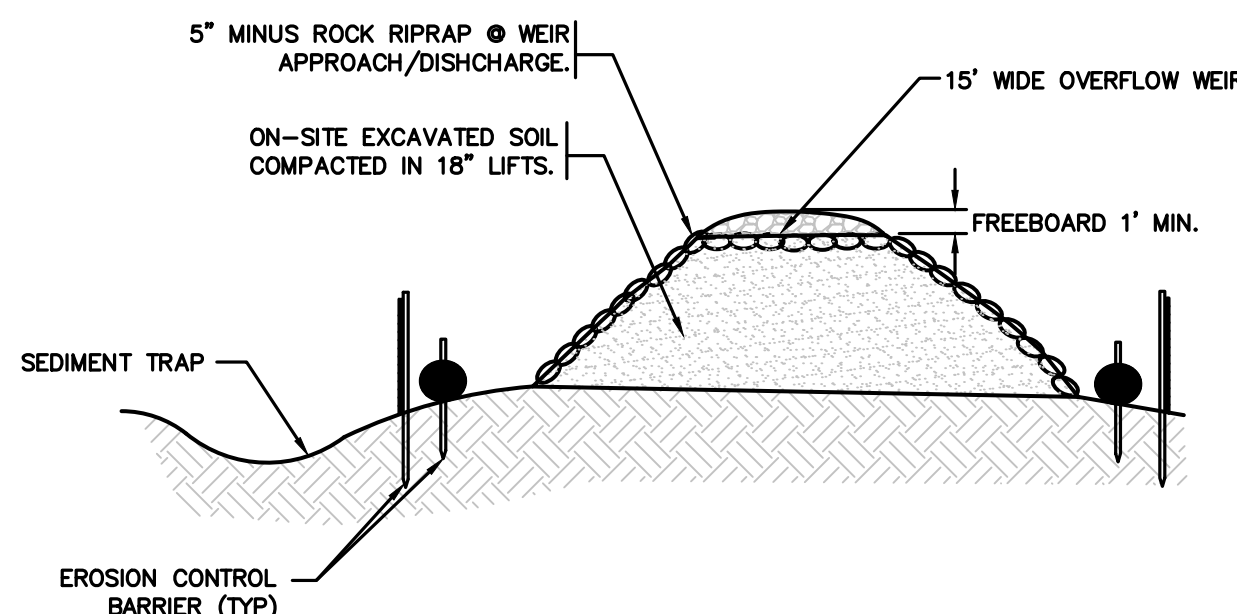
ADA RAMP WITH GRASS STRIP
NOT TO SCALE



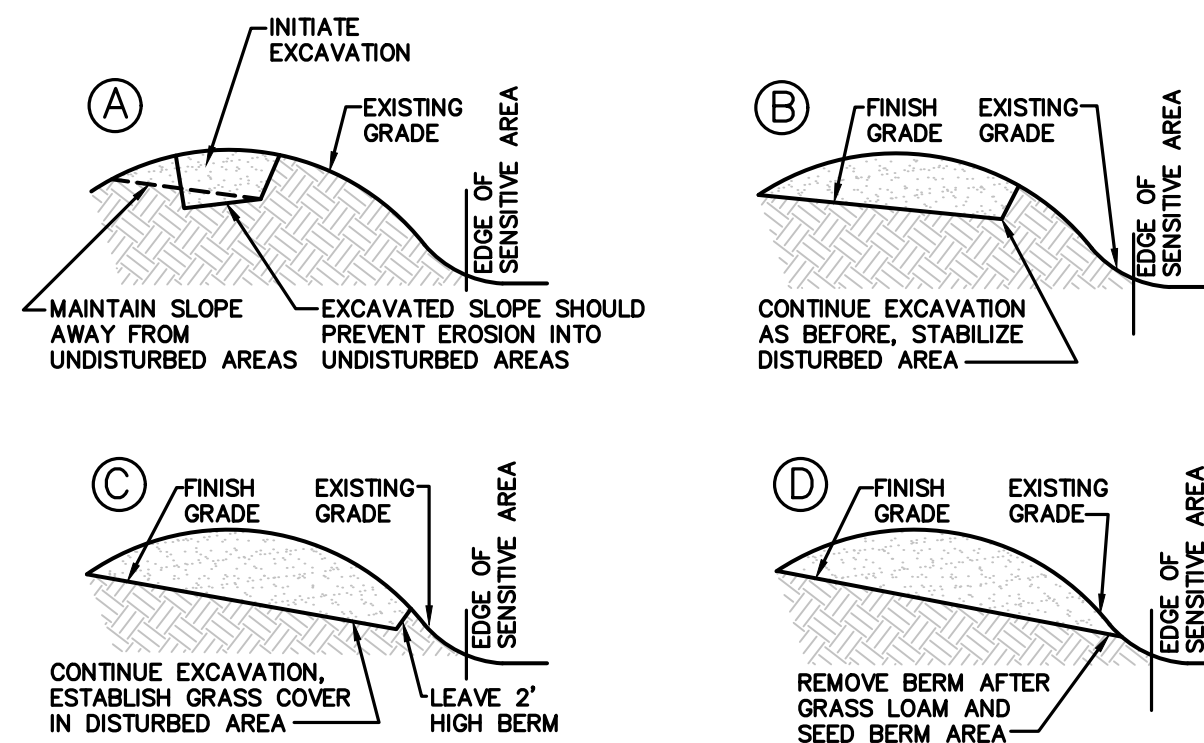
ROOF DRAIN
NOT TO SCALE



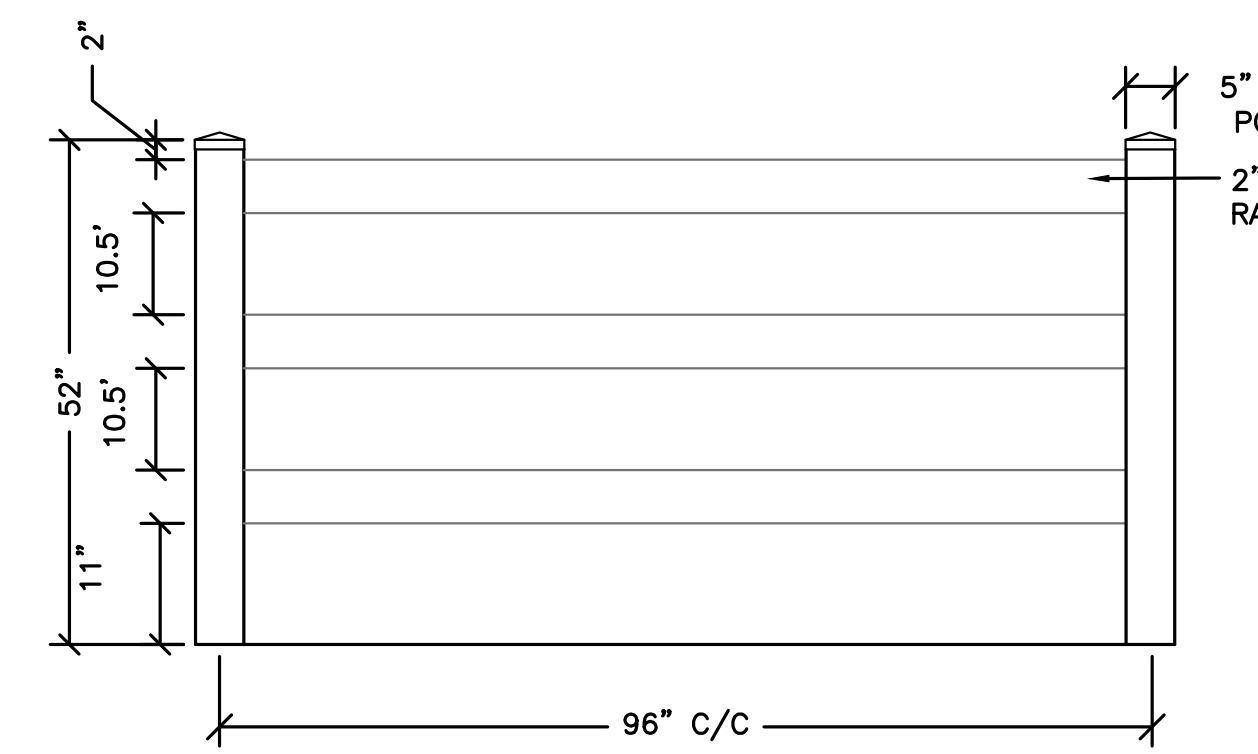
TYPICAL CROSSWALK
NOT TO SCALE



TEMPORARY SEDIMENT BASIN
NOT TO SCALE

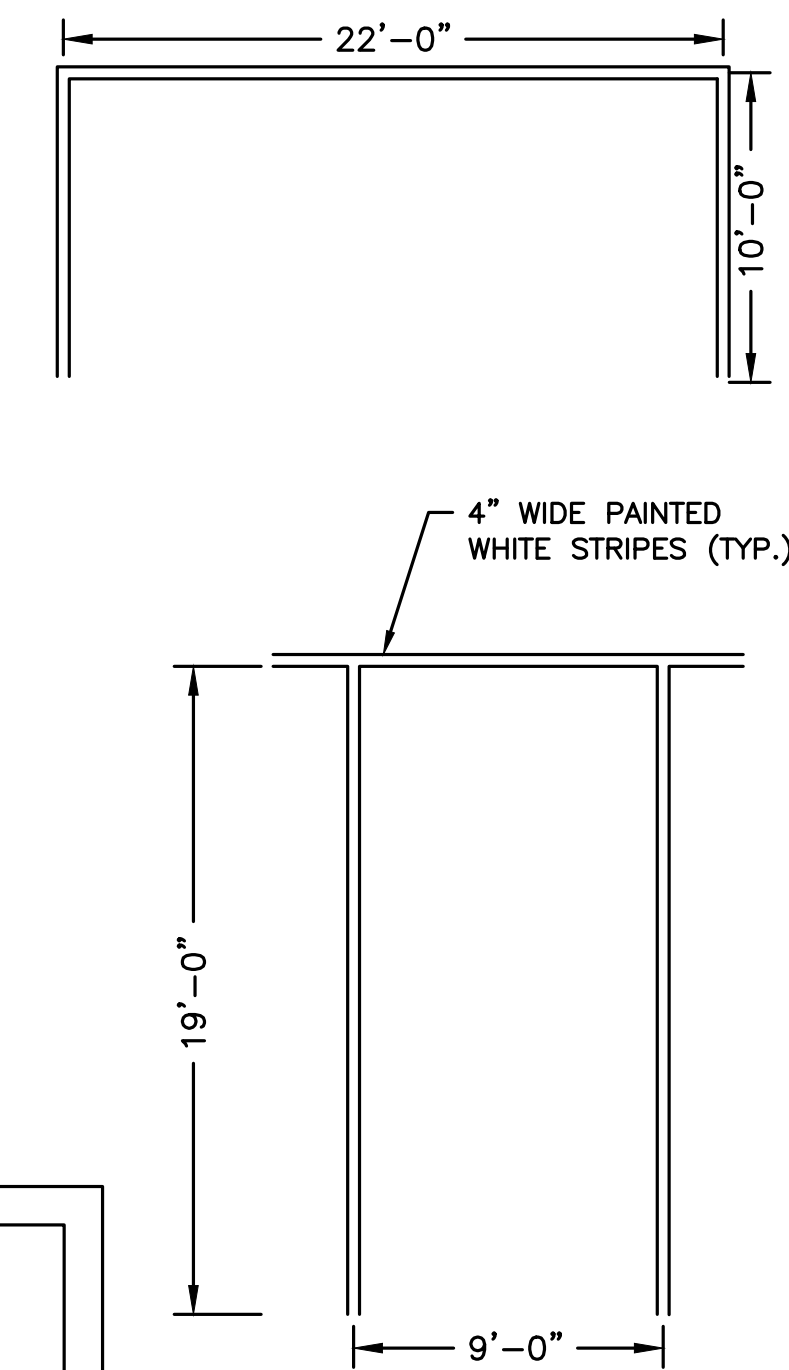


EXCAVATION PROCEDURE
NOT TO SCALE

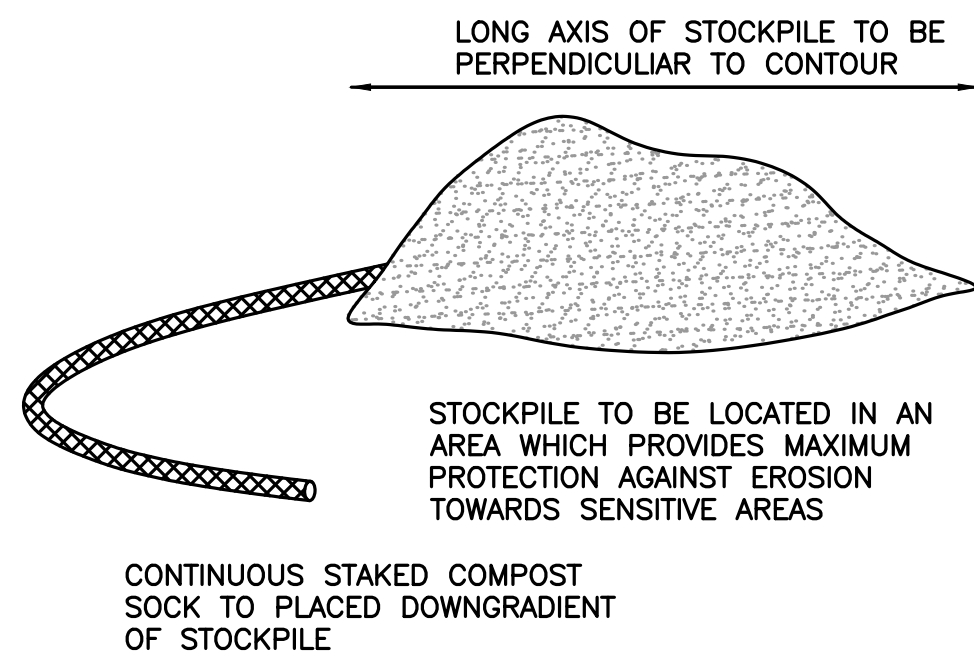


NOTE: THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.

POLYVINYL POST AND RAIL FENCE
NOT TO SCALE

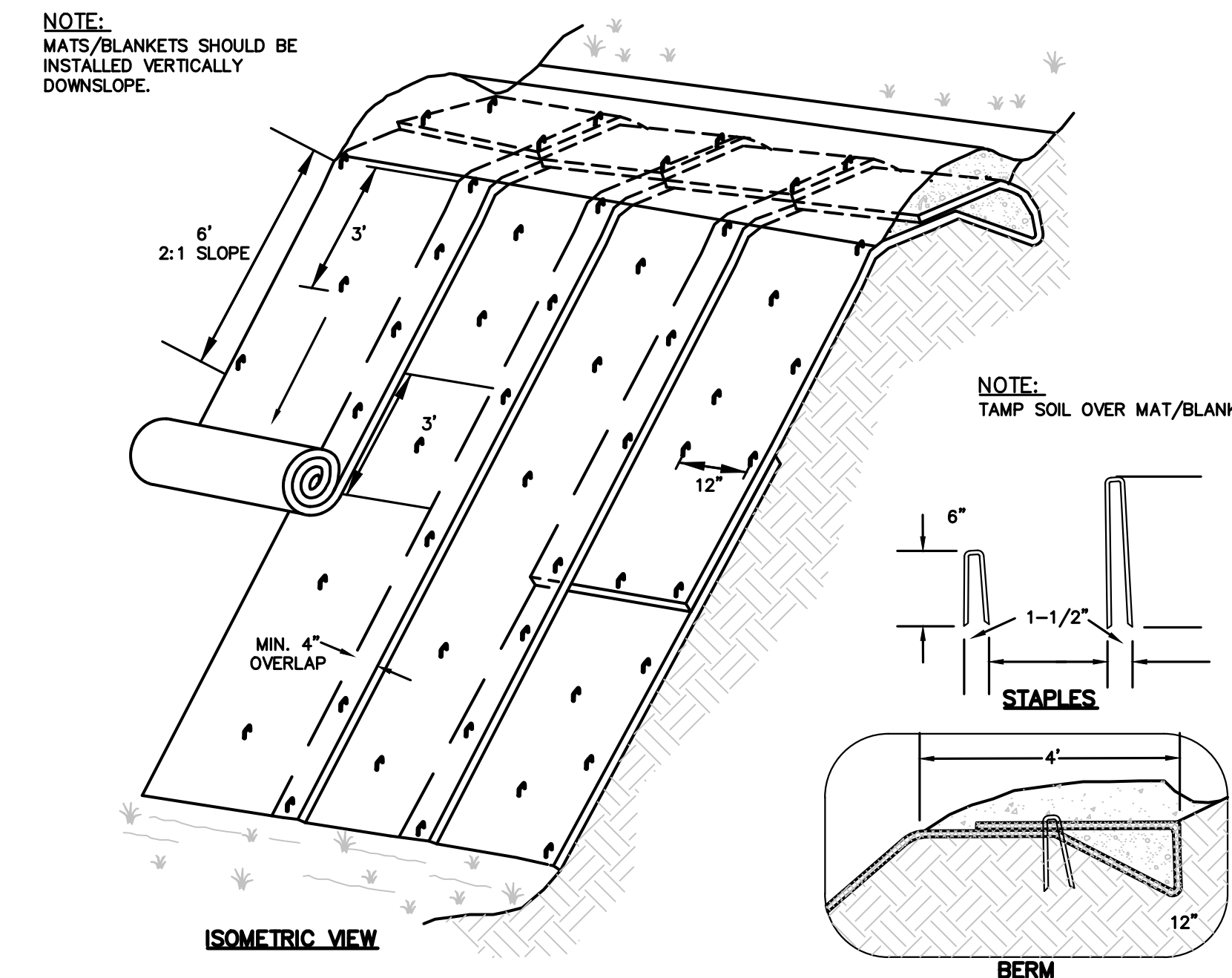


TYPICAL PARKING SPACE
NOT TO SCALE



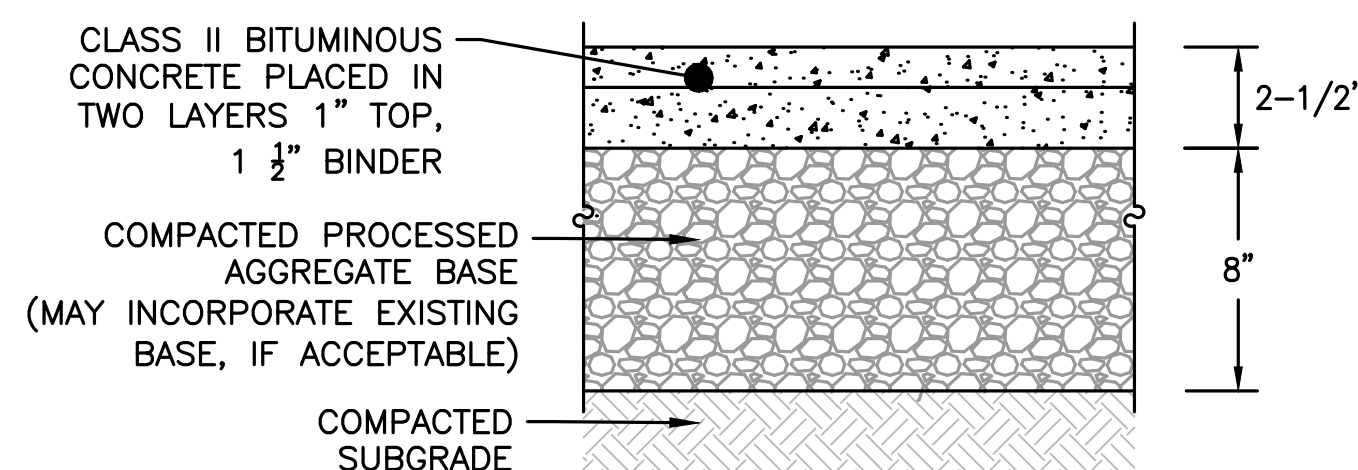
TEMPORARY STOCKPILE
NOT TO SCALE

NOTE:
1. IF STOCKPILES ARE TO BE USED FOR LONG-TERM SOIL STORAGE, THE AREAS SHALL BE PROTECTED WITH THE USE OF MULCH AND/OR TARPS, OR ANNUAL SEED MIXES THAT ARE WATERED UNTIL GROWING.

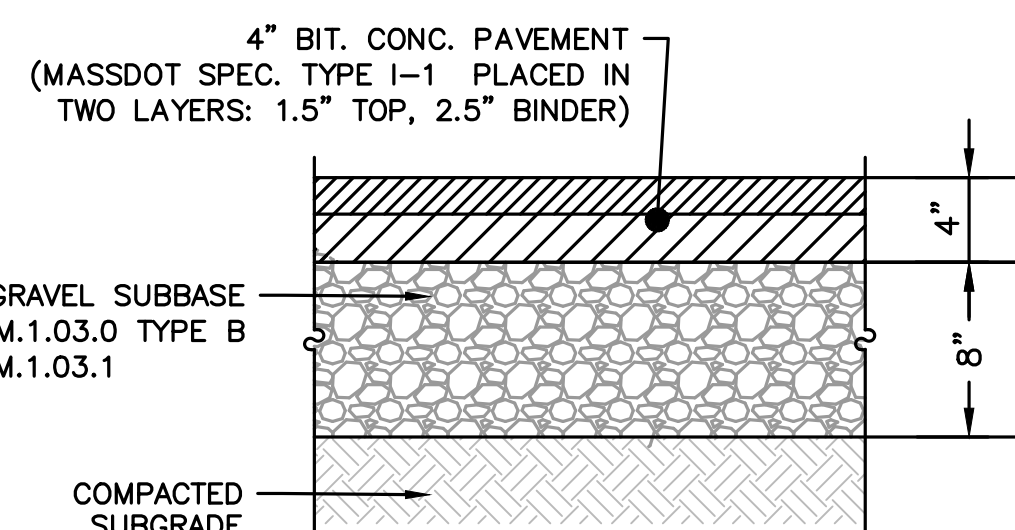


NOTES:
1. INSTALL CURLEX | EXELCIOR BLANKETS PER MANUFACTURER RECOMMENDATIONS, OR APPROVED EQUAL.
2. SLOPE SURFACE SHALL BE FREE OF ROCK, CLODS, STICKS AND GRASS, MATS/BLANKETS SHALL HAVE GOOD SOIL CONTACT.
3. APPLY PERMANENT SEEDING BEFORE PLACING BLANKETS.
4. LAY BLANKETS LOOSELY AND STAKE OR STAPLE TO MAINTAIN DIRECT CONTACT WITH THE SOIL. DO NOT STRETCH.
5. JUTE NETTING CONSTRUCTED FROM ORGANIC MATERIAL MAY BE SUBSTITUTED. REFER TO MULCHING SPECIFICATIONS (SHEET 35) FOR INFORMATION REGARDING JUTE NETTING.

EROSION BLANKET
NOT TO SCALE



BIT CONC SIDEWALK SECTION DETAIL
NOT TO SCALE



FULL DEPTH ROADWAY PAVEMENT SECTION
NOT TO SCALE

PREPARED FOR:
SHELDON WEST, LLC
480 TURNPIKE STREET
SOUTH EASTON, MA 02375

SHELDON WEST
1139 WEST STREET
WRENTHAM, MA, 02093
NORFOLK COUNTY

REVISIONS:

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TOWN OF WRENTHAM - PLANNING BOARD

DATE:	APRIL 11, 2022
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DESIGNED BY:	KL/MB
DRAWN BY:	KL/MB/NC
CHECKED BY:	KE
SIGNATURE	DATE

DEEP HOLE TESTING
APRIL 22, 23, AND 24 2020
SOIL EVALUATOR: KASEY FERREIRA
PERCS WITNESSED BY: WADE SAUCIER

TP-1 EL.=249.91
0"-13" Ap LO 10YR 3/2
13"-24" Bw SL 10YR 4/6
24"-96" C1 S 10YR 4/3
MOTTLES 30", WEeping 23", STANDING 53"
ESHW: 30" @ EL. 247.41

TP-2 EL.=249.82
0"-11" Ap LO 10YR 3/3
11"-30" Bw SL 10YR 5/4
30"-99" C1 S 10YR 4/4
MOTTLES 26", WEeping 35", STANDING 70"
ESHW: 26" @ EL. 247.65

TP-3 EL.=249.94
0"-12" Ap LO 10YR 2/2
12"-22" Bw SL 10YR 5/6
22"-96" C1 S 10YR 4/4
MOTTLES 28", WEeping 34", STANDING 70"
ESHW: 28" @ EL. 247.61

TP-4 EL.=249.33
0"-10" Ap LO 10YR 3/1
10"-22" Bw SL 10YR 4/4
22"-100" C1 S 10YR 5/4
MOTTLES 32", WEeping 35", STANDING 82"
ESHW: 48" @ EL. 245.30

TP-5 EL.=249.93
0"-13" Ap LO 10YR 2/2
13"-30" Bw SL 10YR 5/6
30"-98" C1 LS 10YR 4/4
MOTTLES 35", WEeping 35", STANDING 56"
ESHW: 35" @ EL. 247.01

TP-6 EL.=249.12
0"-8" Ap LO 10YR 2/2
8"-22" Bw SL 10YR 5/8
22"-96" C1 LS 10YR 4/3
MOTTLES 22", WEeping 55", STANDING 69"
ESHW: 22" @ EL. 247.29

TP-7 EL.=248.96
0"-11" Ap LO 10YR 2/2
11"-23" Bw SL 10YR 6/8
23"-39" C1 GLEY SL G1 7/10YR
39"-108" C2 S 10YR 4/4
MOTTLES 27", WEeping 69", STANDING 71"
ESHW: 27" @ EL. 246.71

TP-8 EL.=248.40
0"-11" Ap LO 10YR 2/1
11"-31" Bw SL 7.5YR 7/6
31"-53" C1 GLEY SL G1 7/10YR
53"-105" C2 S 10YR 5/4
MOTTLES 23", WEeping 45", STANDING 77"
ESHW: 23" @ EL. 246.48

TP-9 EL.=249.65
0"-12" Ap LO 10YR 3/2
12"-25" Bw SL 7.5YR 4/4
25"-108" C1 S 10YR 4/3
MOTTLES 32", WEeping 35", STANDING 82"
PERC SHELF 30"; PRESOAK: 2:18-2:33
12" @ 2:33, 9" @ 2:40, 6" @ 2:51
RATE = 3.67 MIN/INCH
ESHW: 32" @ EL. 246.98

TP-10 EL.=250.27
0"-12" Ap LO 10YR 3/2
12"-38" Bw SL 2.5Y 6/4
38"-100" C1 S 10YR 5/4
MOTTLES 38", WEeping 62"
PERC SHELF 40"
ESHW: 38" @ EL. 247.10

TP-11 EL.=250.26
0"-33" FILL
33"-96" C1 LS 10YR 4/4
MOTTLES 33", WEeping 63"
PERC SHELF 30"; PRESOAK: 10:49-11:04
12" @ 11:04, 9" @ 11:11, 6" @ 11:24
RATE = 4.33 MIN/INCH
ESHW: 33" @ EL. 247.51

TP-12 EL.=250.45
0"-11" Ap LO 10YR 3/2
11"-22" Bw SL 2.5YR 6/4
22"-109" C1 LS 10YR 5/3
MOTTLES 47", STANDING 89"
PERC SHELF 27"; PRESOAK: 12:13-12:28
12" @ 12:28, 9" @ 12:32, 6" @ 12:36
RATE = 1.33 MIN/INCH
ESHW: 47" @ EL. 246.53

TP-1 EL.=249.38
0"-10" Ap LO 10YR 3/2
10"-24" Bw1 SL 7.5YR 5/8
24"-44" Bw2 SL 5Y 6/1
44"-96" C1 FS 10YR 5/2
MOTTLES 29", WEeping 26", STANDING 71"
ESHW: 26" @ EL. 247.21

TP-2 EL.=248.73
0"-11" Ap LO 10YR 2/2
11"-22" Bw1 SL 10YR 5/6
22"-40" Bw2 SL 5Y 5/2
40"-93" C1 S 10YR 5/4
MOTTLES 20", WEeping 31", STANDING 80"
ESHW: 20" @ EL. 247.06

TP-3 EL.=248.36
0"-10" Ap LO 10YR 3/2
10"-19" Bw SL 10YR 5/8
19"-42" C1 LS 7.5YR 5/8
42"-95" C2 S 10YR 5/2
MOTTLES 27", WEeping 22", STANDING 75"
ESHW: 22" @ EL. 246.53

TP-4 EL.=247.88
0"-10" Ap LO 10YR 2/2
10"-20" Bw SL 10YR 6/4
20"-30" C1 LS 7.5YR 4/6
30"-100" C2 S 10YR 5/3
MOTTLES 20", WEeping 21", STANDING 65"
ESHW: 20" @ EL. 246.21

TP-5 EL.=248.74
0"-27" Ap LO 10YR 2/2
27"-34" Bw SL G1 7/10YR
34"-94" C1 S 10YR 4/6
MOTTLES 27", WEeping 44"
ESHW: 27" @ EL. 246.49

TP-6 EL.=249.31
0"-10" Ap LO 10YR 2/2
10"-20" Bw SL 10YR 5/6
20"-96" C1 S 10YR 4/4
MOTTLES 27", WEeping 30", STANDING 65"
ESHW: 27" @ EL. 247.06

TP-7 EL.=250.05
0"-10" Ap LO 10YR 3/2
10"-19" Bw SL 10YR 5/6
19"-101" C1 S 10YR 4/4
MOTTLES 27", WEeping 42", STANDING 74"
GRAVEL 48"
ESHW: 27" @ EL. 247.80

TP-8 EL.=249.15
0"-9" Ap LO 10YR 3/2
9"-19" Bw SL 10YR 5/8
19"-98" C1 S 10YR 4/4
MOTTLES 36", WEeping 44", STANDING 88"
ESHW: 36" @ EL. 246.15

TP-9 EL.=249.32
0"-11" Ap LO 10YR 3/2
11"-22" Bw SL 10YR 5/6
22"-98" C1 S 10YR 4/6
MOTTLES 30", WEeping 26", STANDING 64"
ESHW: 30" @ EL. 246.82

TP-10 EL.=249.51
0"-15" Ap LO 10YR 2/2
15"-22" Bw SL 10YR 5/8
22"-98" C1 S 10YR 4/4
MOTTLES 31", WEeping 33", STANDING 84"
ESHW: 31" @ EL. 246.93

TP-11 EL.=248.25
0"-12" Ap LO 10YR 3/2
12"-17" Bw SL 10YR 5/6
17"-105" C1 S 10YR 4/2
MOTTLES 27", WEeping 35", STANDING 74"
ESHW: 27" @ EL. 246.00

TP-12 EL.=248.84
0"-12" Ap LO 10YR 2/2
12"-19" Bw SL 10YR 5/6
19"-101" C1 S 10YR 4/4
MOTTLES 27", WEeping 44", STANDING 75"
ESHW: 27" @ EL. 246.59

TP-13 EL.=248.07
0"-10" Ap LO 10YR 2/2
10"-15" Bw SL 10YR 5/4
15"-40" C1 LS 10YR 4/4
40"-98" C2 S 10YR 4/4
MOTTLES 21", WEeping 26", STANDING 81"
ESHW: 21" @ EL. 246.32

TP-14 EL.=248.05
0"-16" Ap LO 10YR 2/2
16"-51" C1 MS 10YR 4/6
51"-80" C2 GS 7.5YR 4/6
80"-96" C3 FS 10YR 5/4
WEeping 13", STANDING 84"
ESHW: 13" @ EL. 246.96

TP-15 EL.=248.49
0"-12" Ap LO 10YR 3/2
12"-26" Bw LS 10YR 5/6
26"-108" C1 S 10YR 5/3
MOTTLES 27", WEeping 55", STANDING 61"
ESHW: 27" @ EL. 246.24

TP-16 EL.=248.36
0"-11" Ap LO 10YR 3/2
11"-22" Bw SL 10YR 5/6
22"-110" C1 S 10YR 4/3
MOTTLES 27", WEeping 55", STANDING 62"
ESHW: 27" @ EL. 246.11

TP-17 EL.=246.71
0"-30" Ap LO 10YR 2/1
30"-42" Bw LS 10YR 3/6
42"-113" C1 S 10YR 4/6
MOTTLES 36", WEeping 62", STANDING 72"
ESHW: 36" @ EL. 243.71

TP-18 EL.=246.49
0"-22" Ap LO 10YR 2/2
22"-38" Bw LS 10YR 3/6
38"-108" C1 S 2.5YR 5/4
MOTTLES 38", WEeping 64", STANDING 70"
ESHW: 38" @ EL. 243.32

TP-19 EL.=248.05
0"-12" Ap LO 10YR 3/2
12"-24" Bw SL 10YR 5/8
24"-35" C1 GLEY SL G1 7/10YR
35"-108" C2 S 10YR 4/4
MOTTLES 36", WEeping 53", STANDING 74"
ESHW: 36" @ EL. 245.05

TP-20 EL.=249.49
0"-14" Ap LO 10YR 3/2
14"-30" Bw LS 10YR 4/4
30"-102" C1 S 10YR 4/2
MOTTLES 40", WEeping 67", STANDING 72"
ESHW: 40" @ EL. 246.16

TP-21 EL.=249.11
0"-11" Ap LO 10YR 2/2
11"-22" Bw LS 10YR 5/6
22"-103" C1 S 10YR 4/3
MOTTLES 26", WEeping 38", STANDING 84"
ESHW: 26" @ EL. 246.94

TP-22 EL.=250.21
0"-11" Ap LO 10YR 3/2
11"-27" Bw LS 10YR 5/6
27"-104" C1 S 10YR 4/2
MOTTLES 33", WEeping 50", STANDING 76"
ESHW: 33" @ EL. 247.46

TP-23 EL.=250.17
0"-16" Ap LO 10YR 2/2
16"-20" Bw SL 10YR 5/6
20"-96" C1 LS 10YR 5/3
MOTTLES 47", WEeping 72", STANDING 81"
ESHW: 47" @ EL. 246.25

TP-24 EL.=250.36
0"-9" Ap LO 10YR 3/2
9"-17" Bw SL 10YR 5/6
17"-96" C1 S 10YR 5/4
MOTTLES 37", WEeping 53", STANDING 76"
ESHW: 37" @ EL. 247.28

DEEP HOLE TESTING
MARCH 31, 2022
SOIL EVALUATOR: KASEY FERREIRA

TP-101 EL.=249.00
0"-11" Ap LO 10YR 3/2
11"-20" Bw SL 10YR 5/6
20"-33" C1 LS 10YR 5/4
33"-98" C2 S/GRAVEL 10YR 4/3
MOTTLES 21", WEeping 51"
ESHW: 21" @ EL. 247.25

TP-102 EL.=248.10
0"-15" Ap LO 10YR 3/2
15"-32" C1 LS 10YR 5/4
32"-96" C2 S/GRAVEL 10YR 4/3
WEeping 16"
ESHW: 16" @ EL. 246.77

TP-103 EL.=249.25
0"-14" Ap LO 10YR 3/2
14"-25" Bw SL 10YR 5/6
25"-37" C1 LS 10YR 5/4
37"-112" C2 S/GRAVEL 10YR 4/3
MOTTLES 24", WEeping 71"
ESHW: 24" @ EL. 247.25

TP-104 EL.=248.60
0"-11" Ap LO 10YR 3/2
11"-35" Bw SL 10YR 5/6
35"-85" C S/GRAVEL 10YR 4/3
WEeping 34"
ESHW: 34" @ EL. 245.77

TP-105 EL.=250.10
0"-12" Ap LO 10YR 3/2
12"-23" Bw SL 10YR 5/6
23"-30" C1 S 10YR 5/4
30"-84" C2 S/GRAVEL 10YR 4/3
MOTTLES 24", WEeping 34"
ESHW: 34" @ EL. 247.27

TP-200 EL.=246.59
0"-13" Ap LO 10YR 3/2
13"-22" Bw LS 10YR 5/6
22"-108" C S 10YR 5/4
MOTTLES 20"
ESHW: 20" @ EL. 244.92

TP-201 EL.=246.66
0"-16" Ap LO 10YR 3/2
16"-24" Bw SL 10YR 5/6
24"-100" C S 10YR 5/4
MOTTLES 25"
ESHW: 25" @ EL. 244.57

TP-203 EL.=252.18
0"-20" Ap LO 10YR 3/2
20"-26" Bw SL 10YR 5/6
26"-96" C S 10YR 5/4
MOTTLES 44", WEeping 80"
ESHW: 44" @ EL. 248.51

TP-204 EL.=251.50
0"-24" Ap LO 10YR 3/2
24"-38" Bw SL 10YR 5/6
38"-108" C S 10YR 5/4
MOTTLES 47"
ESHW: 47" @ EL. 247.58

TP-205 EL.=248.34
0"-12" Ap LO 10YR 3/2
12"-24" Bw SL 10YR 5/6
24"-30" C1 LS 10YR 5/4
30"-90" C2 S/GRAVEL 10YR 4/3
MOTTLES 26", WEeping 55"
ESHW: 26" @ EL. 246.17

TP-206 EL.=251.85
0"-12" Ap LO 10YR 3/2
12"-24" Bw SL 10YR 5/6
24"-110" C S 10YR 5/4
MOTTLES 76"
ESHW: 76" @ EL. 245.51

TP-207 EL.=251.50
0"-14" Ap LO 10YR 3/2
14"-31" Bw SL 10YR 5/6
31"-96" C S 10YR 5/4
MOTTLES 74"
ESHW: 74" @ EL. 245.33

TOWN OF WRENTHAM - PLANNING BOARD

SIGNATURE DATE

TYPICAL MULCHING MATERIALS & APPLICATION RATES			
MATERIAL	RATE (TONS PER ACRE)	REQUIREMENTS	NOTES
ORGANIC MULCHES			
BARK	5-8"	AIR DRY; SHREDDED, HAMMERMILLED OR CHIPS	APPLY WITH MULCH BLOWER, WITH CHIP HANDLER OR BY HAND; DO NOT USE ASPHALT TACK
HYDRAULICALLY APPLIED MULCHES	1.25-2.5 ^{a,b}	APPLY VIA HIGH-PRESSURE PUMPING FROM MIXING TANK, THROUGH A HOSE AND NOZZLE APPARATUS	DO NOT APPLY DURING RAIN OR WIND EVENTS OR IMMEDIATELY BEFORE A STORM EVENT
STRAW	1-2"	DRY, UNCHOPPED, UNWEATHERED; AVOID WEEDS	SPREAD BY HAND OR MACHINE; TACK OR TIE DOWN
WOOD CHIPS	5-8"	AIR DRY, ADD 12 POUNDS OF NITROGEN FERTILIZER PER TON OF WOOD CHIPS	APPLY WITH BLOWER, WITH CHIP HANDLER OR BY HAND; NOT SUITABLE FOR FINE TURF AREAS
WOOD FIBER OR WOOD CELLULOSE	1/2 - 1		USE WITH HYDROSEEDER; CAN USE TO TACK STRAW; DO NOT USE IN HOT, DRY WEATHER
INORGANIC MULCHES			
ROCK	200-500 ^a		CAN BE COSTLY; DOES NOT PROMOTE PLANT GROWTH
NETS AND MATS			
COIR NET	COVER AREA	APPLY HEAVILY AND UNIFORMLY; USE WITH ORGANIC MULCH	WITHSTANDS WATER FLOW
EXCELSIOR (WOOD FIBER) MAT	COVER AREA		ANCHORING ONLY A REQUIREMENT IN CRITICAL AREAS OR AT SITES SUBJECT TO HIGH WINDS; DECOMPOSES SLOWLY ^d
FIBERGLASS ROVING	1/2 - 1	CONTINUOUS FIBERS OF DRAWN GLASS THAT A NON-TOXIC AGENT BINDS TOGETHER	APPLY WITH COMPRESSED AIR EJECTOR; TACKING MAY BE NECESSARY; CONSIDER END OF LIFE REMOVAL/DISPOSAL
JUTE NETTING	COVER AREA	HEAVY, UNIFORM; WOVEN OF SINGLE JUTE YARN; USE WITH ORGANIC MULCH	WITHSTANDS WATER FLOW

NOTES:
a - RECOMMENDED APPLICATION RATE DATA SOURCE IS MPCA, 2019
b - RECOMMENDED APPLICATION RATE DATA SOURCE IS WSDOT, 2019
c - RECOMMENDED APPLICATION RATE DATA SOURCE IS MDT, 2015
d - APPLICATION NOTES ARE FROM USDA, 2011

MAINTENANCE:
WHEN MULCHES STABILIZE AND PROTECTION IS NO LONGER NECESSARY, REMOVE NETTING OR MATTING AND COMPOST OR DISPOSE OF IT AS APPROPRIATE. INSPECT MULCHED AREAS OFTEN IN ACCORDANCE WITH ANY APPLICABLE PERMIT REQUIREMENTS AND, WHERE APPLICABLE, STORMWATER POLLUTION PREVENTION PLAN SPECIFICATIONS TO IDENTIFY AREAS WHERE MULCH HAS LOOSENED OR WHERE THERE HAS BEEN MULCH REMOVAL, ESPECIALLY AFTER RAIN. RESEED THESE AREAS, IF NECESSARY, AND REPLACE THE MULCH COVER IMMEDIATELY. IF USING MULCH BINDERS, REAPPLY THEM AT RATES THAT THE MANUFACTURER RECOMMENDS. IF WASHOUT, BREAKAGE OR EROSION OCCURS, REPAIR, RESEED AND REAPPLY MULCH. INSPECTIONS AND MAINTENANCE ACTIVITIES SHOULD CONTINUE UNTIL FIRM VEGETATION ESTABLISHMENT OCCURS.

HOWARD STEIN HUDSON
114 Turnpike Road, Suite 2C
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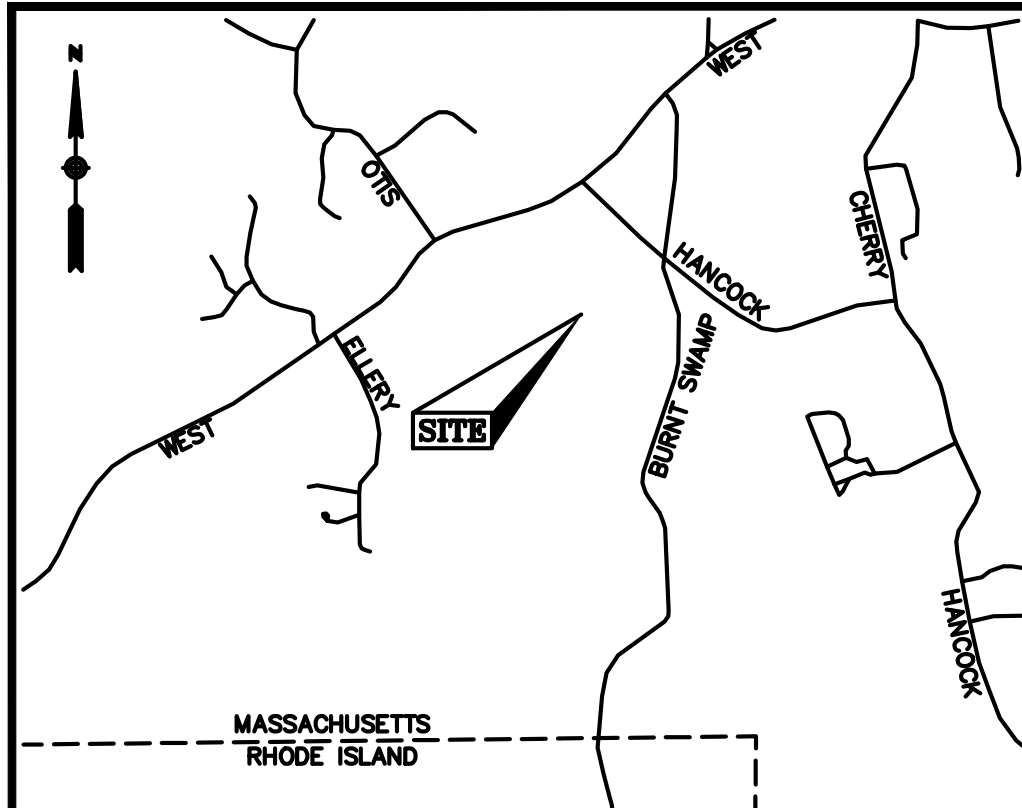

KATIE L. ENRIGHT
CIVIL
No. 465
STATE OF MASSACHUSETTS
PROFESSIONAL ENGINEER

DETAIL SHEET
8 OF 9

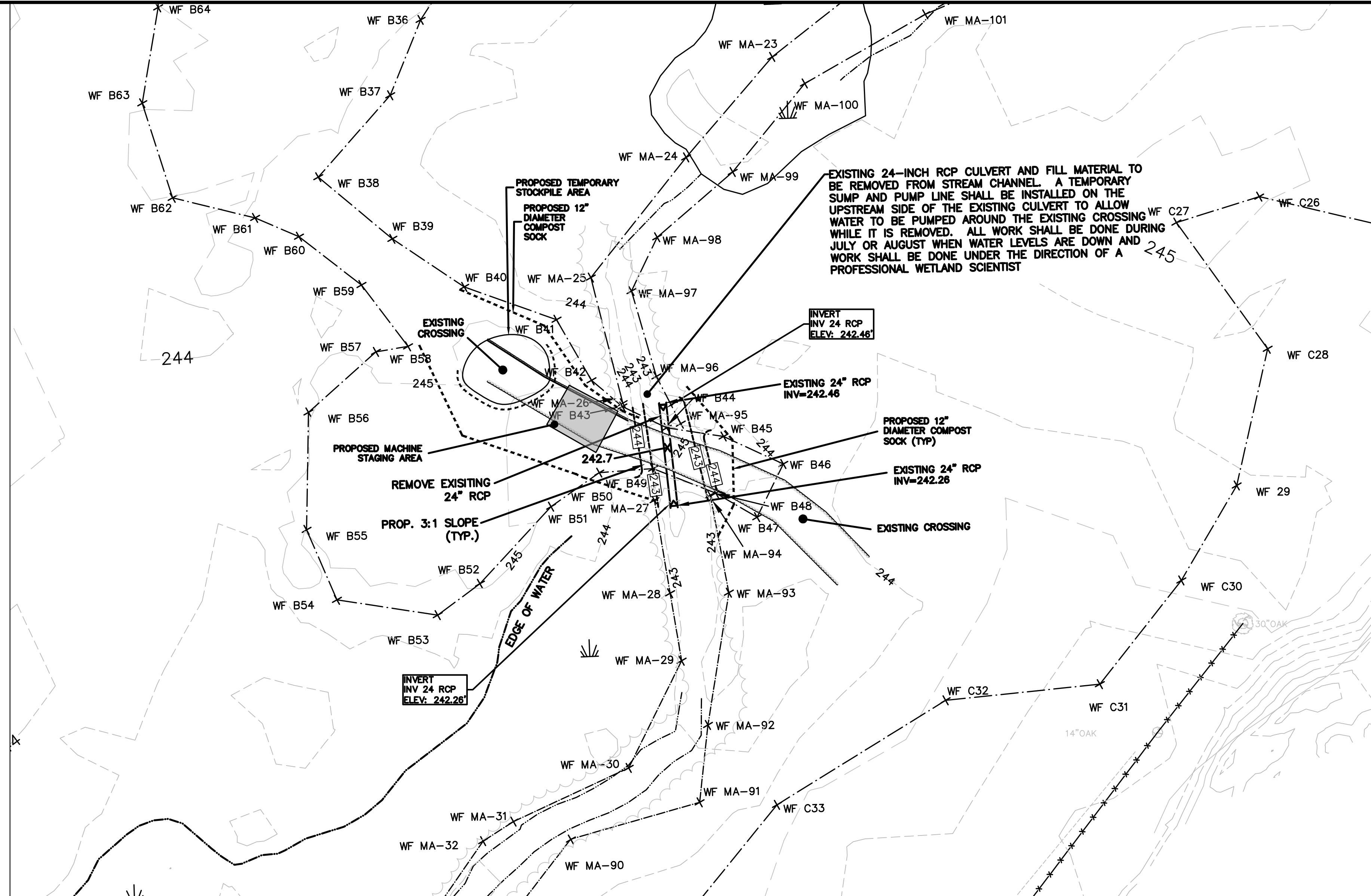
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DRAWN BY: KL/MB/NC
CHECKED BY: KE

C10.8
SHEET 35 OF 36

SOIL TESTING RESULTS
SEE GRADING AND DRAINAGE
SHEETS FOR LOCATIONS



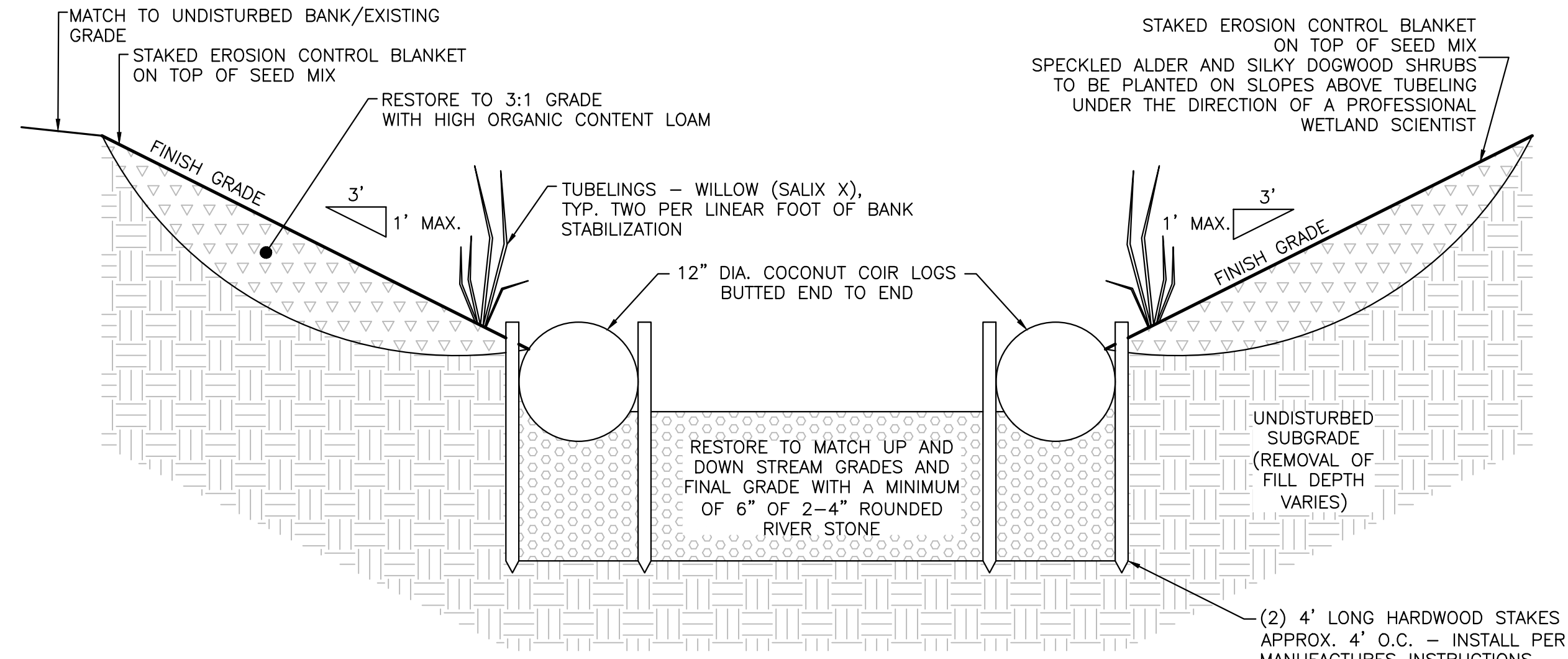
- LEGEND**
- CONCRETE BOUND
 - ⊙ DRILL HOLE FOUND
 - ⊙ IRON ROD FOUND
 - ⊙ IRON PIPE FOUND
 - STONE BOUND WITH DRILL HOLE
 - STONE BOUND
 - CATCH BASIN
 - ⊙ DRAIN MANHOLE
 - ⊙ UNKNOWN MANHOLE
 - ◁ CULVERT
 - ⊙ UTILITY POLE
 - ⊙ UTILITY POLE WITH LIGHT
 - ⊙ UTILITY POLE WITH LIGHT AND TRANSFORMER
 - ⊙ DECIDUOUS TREE
 - ⊙ CONIFER TREE
 - ⊙ SHRUB
 - ⊙ POST
 - ⊙ FLAG POLE
 - ⊙ MAILBOX
 - EOP EDGE OF PAVEMENT
 - BC BITUMINOUS CURB
 - VGC VERTICAL GRANITE CURB
 - CRW CONCRETE RETAINING WALL
 - SWL SOLID WHITE LINE
 - DYL DOUBLE YELLOW LINE
 - (R) RECORD INFORMATION
 - ABUTTERS LOT LINE
 - PROPERTY LINE
 - LINE OF COMMON OWNERSHIP
 - DEED LINE
 - CHAIN LINK FENCE
 - BARB WIRE FENCE
 - METAL/WIRE FENCE
 - METAL GUARDRAIL
 - STONE WALL
 - SHRUB LINE
 - TREE LINE
 - INTERMEDIATE CONTOURS
 - INDEX CONTOURS
 - WETLAND LINE
 - OVERHEAD WIRES
 - RECORD DRAIN LINE
 - RECORD WATER LINE



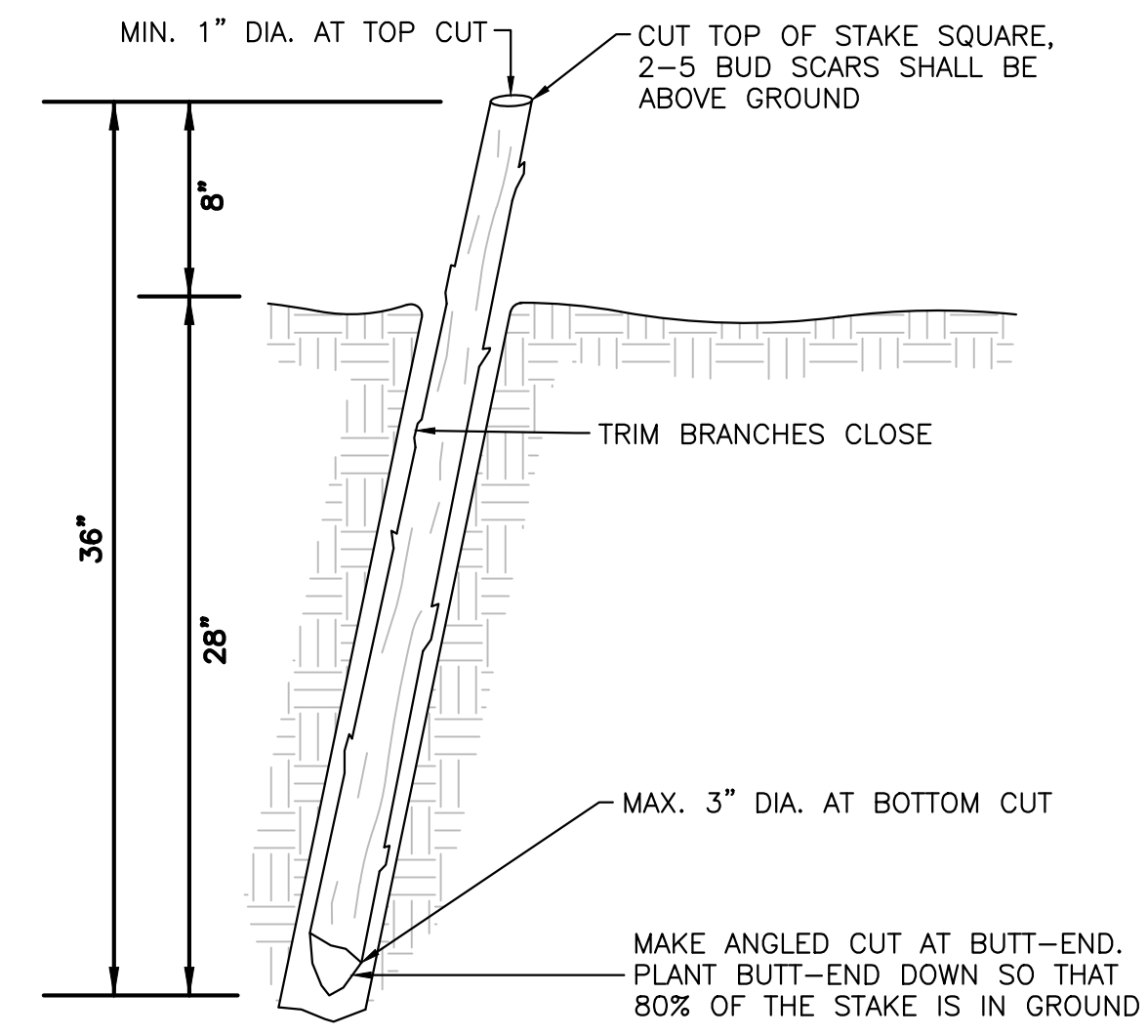
CULVERT REMOVAL AND RESTORATION PLAN
SCALE: 1"=20'

STREAM RESTORATION AREA CONSTRUCTION METHODOLOGY:

1. EROSION CONTROLS SHALL BE PLACED UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST. THE CONTRACTOR SHALL HAVE 50 LINEAR FEET OF 12 INCH MULCH SOCK ((5) - 10 FOOT SECTIONS) AS WELL AS 50 LINEAR FEET OF SILT FENCE.
2. IF WATER IS STILL VISIBLE IN THE CHANNEL PRIOR TO CONSTRUCTION, A TEMPORARY SUMP, WITH PUMP, SHALL BE INSTALLED ON THE UPSTREAM SIDE OF THE CULVERT TO COLLECT WATER SO THAT IT CAN BE PUMPED AROUND THE WORK AREA. IT IS RECOMMENDED THAT WORK BE DONE IN LATE JULY OR MID AUGUST TO TAKE ADVANTAGE OF DRY CONDITIONS.
3. FILL MATERIAL SHALL BE REMOVED FROM THE WORK AREA UNTIL THE PROPER GRADE IS ACHIEVED. IT IS IMPORTANT THAT THE GRADE OF THE STREAM CHANNEL BE 0.5 FEET LOWER THAN THE PROPOSED FINISH GRADE SO THAT IT CAN BE BROUGHT UP TO GRADE WITH A MINIMUM OF 6-INCHES OF ROUND WASHED RIVER ROCK. THE SIDE SLOPES SHALL ALSO BE 0.5 FEET LOWER THAN THE PROPOSED FINISH GRADE SO THAT A MINIMUM OF 6-INCHES OF LOAM CAN BE USED TO BRING THE SLOPES TO THE PROPOSED FINISH GRADE. THE EXCAVATION EFFORT SHALL BE DONE UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST.
4. A 12-INCH COCONUT COIR LOG SHALL BE PLACED ALONG THE TOE OF THE NEWLY FORMED SLOPE AND BE STAKED ACCORDING TO THE BANK STABILIZATION WITH COIR LOGS AND TUBELINGS DETAIL.
5. FOLLOWING PLACEMENT OF THE COIR LOGS, THE BANK SHALL BE SEEDED WITH NEW ENGLAND EROSION CONTROL/RESTORATION MIX FOR DETENTION BASINS AND MOIST SITES AT AN APPLICATION RATE OF 1250 SQ FT/LB. FOLLOWING SEEDING THE SLOPES SHALL BE COVERED WITH EROSION CONTROL BLANKETS, NORTH AMERICAN GREEN, ERONET, 575 OR EQUAL SHALL BE USED.
6. WILLOW TUBELINGS SHALL BE PLANTED AS SHOWN ON THE BANK STABILIZATION WITH COCONUT COIR LOGS AND TUBELINGS DETAIL UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST. FOLLOWING THE PLANTING EFFORT, AT LEAST 75% OF THE SURFACE OF THE REPLACEMENT AREA MUST BE RE-ESTABLISHED WITH INDIGENOUS WETLAND PLANT SPECIES WITHIN TWO (2) GROWING SEASONS. MONITORING WILL OCCUR DURING THIS PERIOD AND SPECIES SHALL BE REPLACED UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST UNTIL AT LEAST 75% COVERAGE IS ACHIEVED. IF AT THE END OF THE SECOND COMPLETE GROWING SEASON PROPER COVERAGE IS NOT ACHIEVED, MONITORING SHALL CONTINUE UNTIL PROPER COVERAGE IS ACHIEVED. DURING THE MONITORING PERIOD INVASIVE SPECIES SHALL BE REMOVED BY HAND PULLING AND BE REMOVED FROM THE SITE.



BANK STABILIZATION WITH COCONUT COIR LOGS AND TUBELINGS DETAIL
(NOT TO SCALE)



DENSE STAKING - WILLOW STAKE INSTALLATION DETAIL
(NOT TO SCALE)

- NOTES:**
1. SOAK CUTTINGS FOR AT LEAST 24 HOURS PRIOR TO INSTALLATION. DO NOT STORE CUTTINGS DRY AND/OR IN DIRECT SUNLIGHT.
 2. TAMP THE SOIL AROUND THE STAKE FOLLOWING INSTALLATION.
 3. ANGLE OF WILLOW STAKES MAY VARY. SLIGHT ANGLE DOWNSTREAM IS PREFERRED.
 4. SPACE CUTTINGS AT 2 PER LINEAR FOOT.

SPECIES LIST		
PUSSY WILLOW	SALIX DISCOLOR	(10) TUBELINGS
SILKY WILLOW	SALIX SERICEA	(10) TUBELINGS
SAND BAR WILLOW	SALIX EXIGULA	(10) TUBELINGS
SPECKLED ALDER	ALNUS INCANA	(5) 3' - 4'
SILKY DOGWOOD	CORNUS AMOMUM	(5) 3' - 4'

- NOTES:**
1. TUBELINGS SHALL BE FURNISHED IN NURSERY GROWN CONTAINERS--GROWN FOR A MINIMUM OF ONE SEASON AND HARDENED OFF AND SHALL BE AS MANUFACTURED BY NEW ENGLAND WETLAND PLANTS AMHERST, MA OR EQUAL.
 2. TUBELINGS SHALL BE INSTALLED IN A STRAIGHT LINE BEHIND COIR LOGS. PLANT TUBELINGS BY DRIVING A 1.75" DIAMETER HOLE INTO SOIL. WHEN TUBELINGS ARE REMOVED FROM CONTAINERS ENSURE THAT ROOTS REMAIN ENCASED IN POTTING SOIL. FIT TUBELINGS INTO DRIVEN HOLES AND FIRM UP SOIL AROUND PLANTED TUBELING. IMMEDIATELY AFTER PLANTING SOAK PLANTED AREAS AND CONTINUE TO KEEP MOIST FOR A MINIMUM OF TWO WEEKS.
 3. SPECKLED ALDER AND SILKY DOGWOOD SHRUBS TO BE PLANTED ON SLOPES ABOVE TUBELINGS UNDER THE DIRECTION OF A PROFESSIONAL WETLAND SCIENTIST.
 4. THE PROPOSED CROSSING WILL BE LOCATED ON THE PROPOSED SHELDON MEADOW PROPERTY (OFF HANCOCK STREET), HOWEVER THIS PART OF THE PROJECT WILL BE SCHEDULED AND ACCESSED THROUGH SHELDON MEADOW (OFF WEST STREET)

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SOUTH EASTON, MA 02375

SHELDON WEST
1139 WEST STREET
WRENTHAM, MA 02093
NORFOLK COUNTY

REVISIONS:

NO	BY	DATE	DESCRIPTION
1	KL	9/13/22	PEER REVIEW
2	KL	11/11/22	TOWN/PEER REVIEW
3	KL	12/8/22	TOWN REVIEW

SITE PLAN

DETAIL SHEET
9 OF 9

DATE: APRIL 11, 2022
PROJECT NUMBER: 19227.01
DESIGNED BY: GH
DRAWN BY: GH
CHECKED BY: GH

C10.9
SHEET 36 OF 36