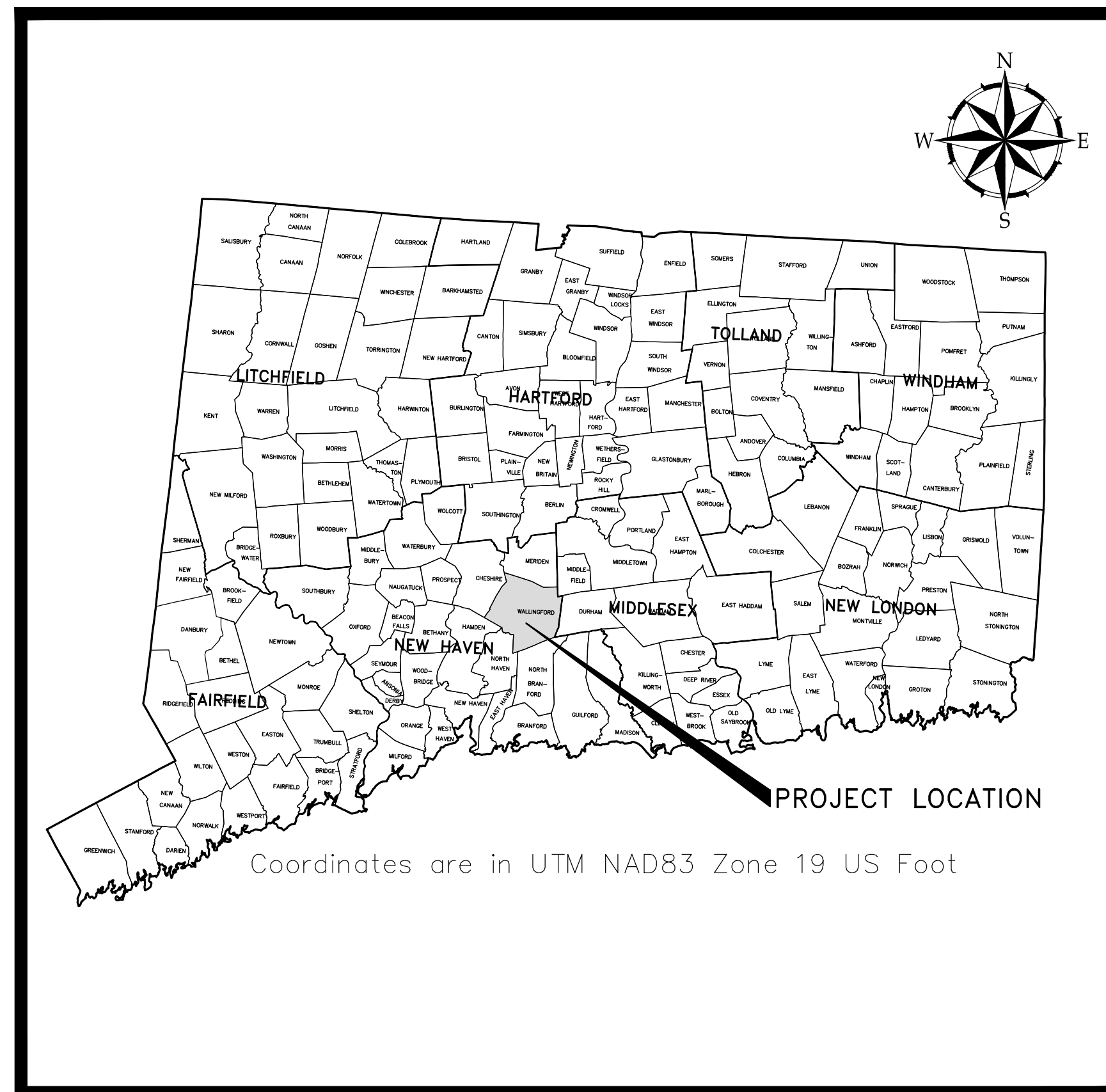


5 & 21 TOELLES ROAD WALLINGFORD CT SOIL REMEDIATION PROJECT

PROJECT NO. 0232596.00

DECEMBER, 2020

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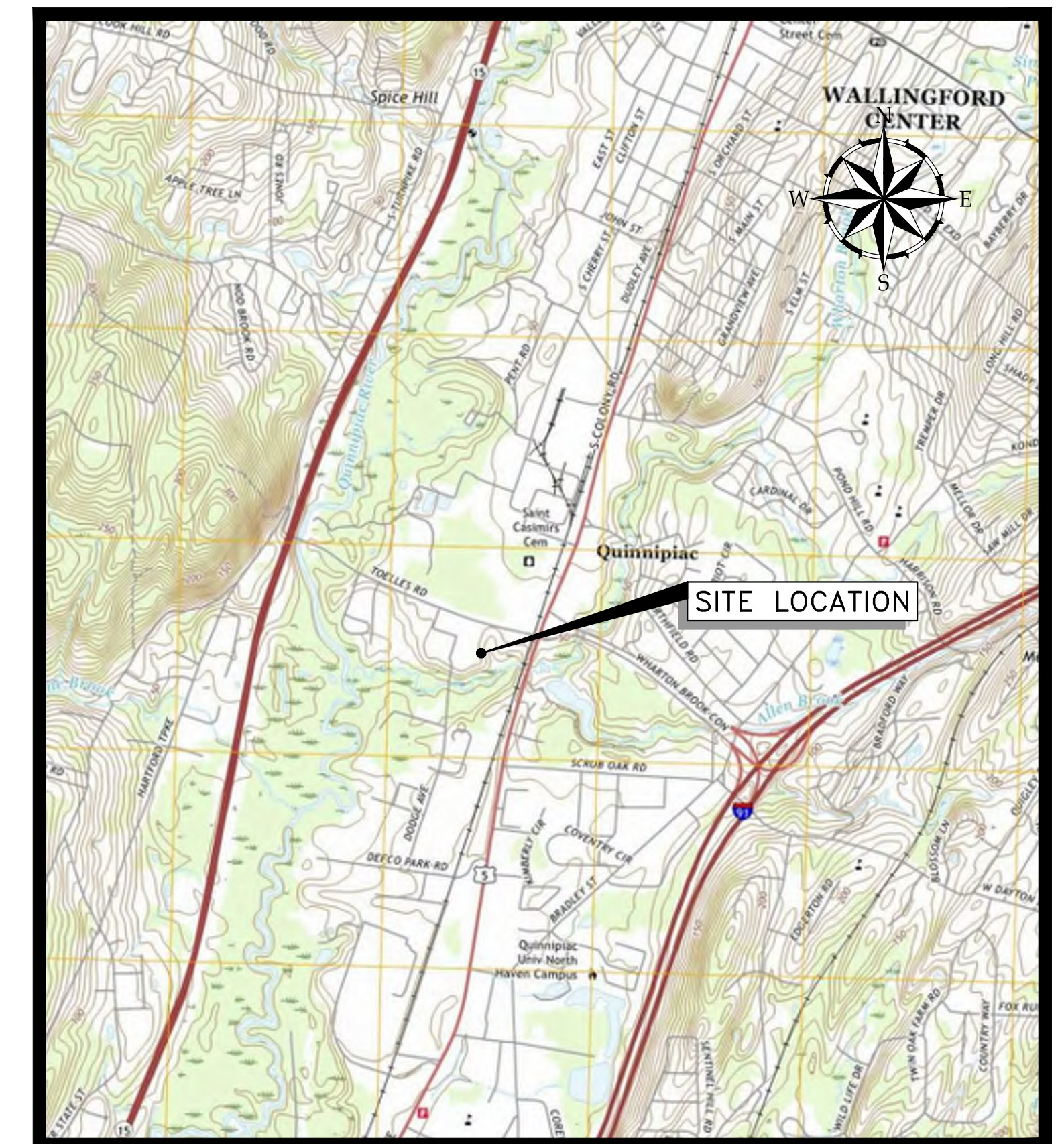
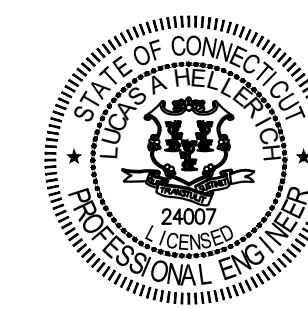
PROJECT LOCATION MAP

Sheet List Table		
Sheet Number	Sheet Title	Sheet Description
GENERAL		
1	G-000	COVER SHEET
2	G-001	GENERAL NOTES, ABBREVIATIONS AND LEGEND
3	G-002	KEY MAP
CIVIL		
4	C-000	EXISTING CONDITIONS PLAN
5	C-001	EROSION AND SEDIMENTATION CONTROLS
6	C-002	SITE PREPARATION AND MATERIALS MANAGEMENT
7	C-003	PROPOSED LIMITS OF SOIL EXCAVATION
8	C-004	SITE RESTORATION PLAN
9	C-005	WETLAND RESTORATION PLAN
10	C-006	PROPOSED SITE SEQUENCING PLAN
11	C-007	CUT/FILL AND SECTIONS
12	C-201	SITE DETAILS 1
13	C-202	SITE DETAILS 2



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SOURCE: USGS TOPOGRAPHIC MAP
SITE LOCATION MAP

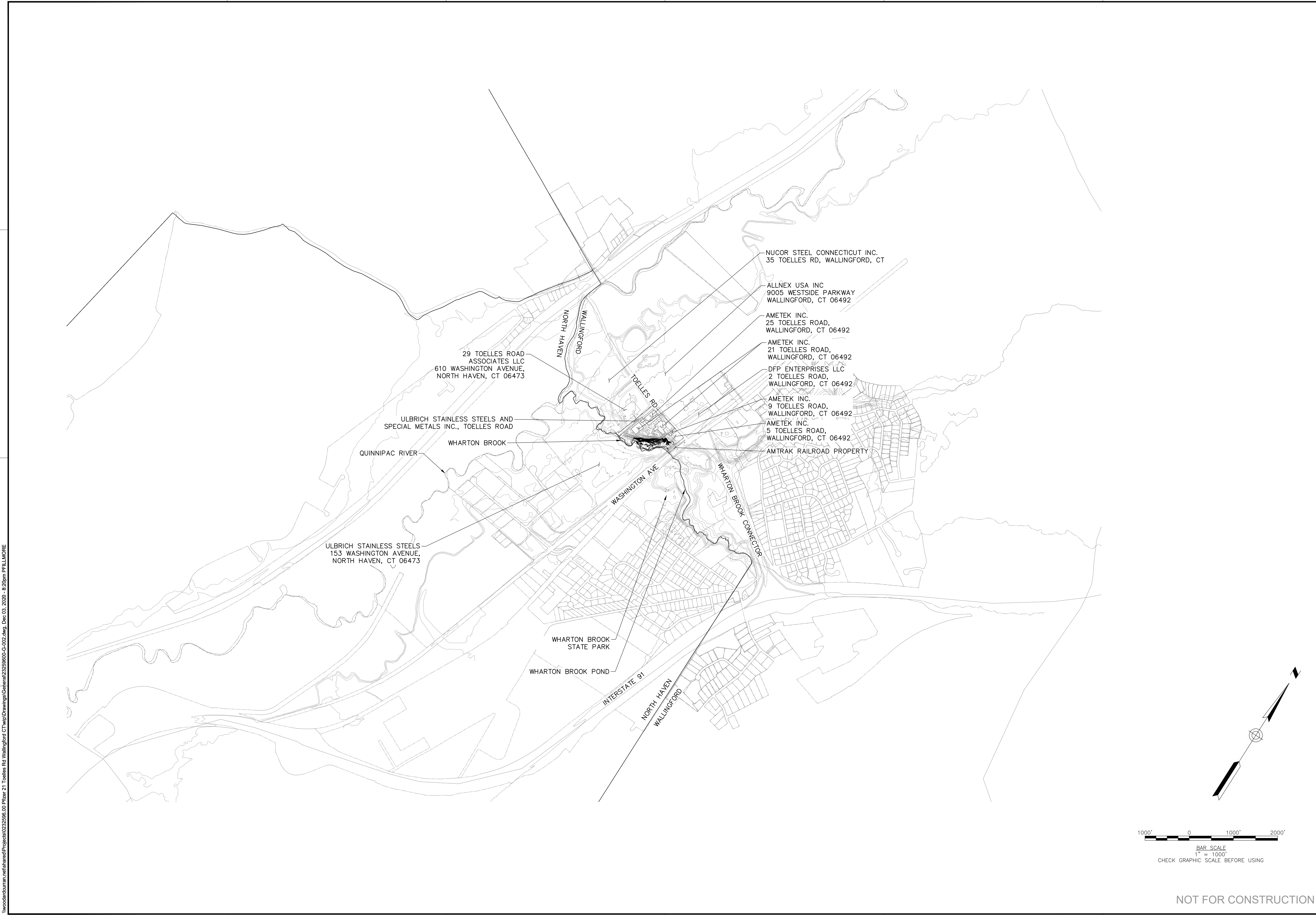


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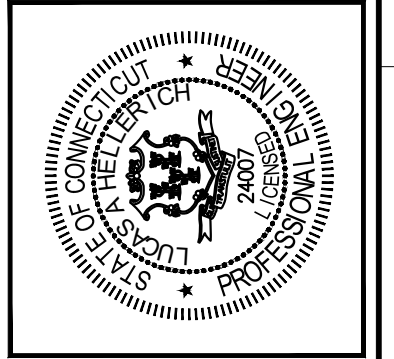


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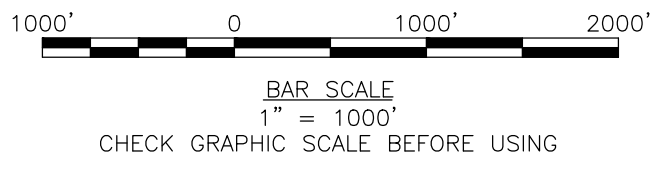


REV	DESCRIPTION	DATE	DESIGNED BY	CHECKED BY	DATE
			JM	LH	
			JM	CB	20200605-002.dwg

KEY MAP

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT



NOT FOR CONSTRUCTION

JOB NO:	0232596.00
DATE:	DECEMBER, 2020
SCALE:	AS NOTED
SHEET:	3 OF 13

G-002

LEGEND

- EXISTING TREES WITH A MINIMUM OF 8 INCHES DBH
- SEDIMENT/EROSION BARRIER
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF PAVEMENT
- CONTOUR LINES
- FENCE LINE
- WETLAND LINE
- 50' UPLAND REVIEW AREA
- WETLAND FLAG
- 500 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- FLOODWAY IN ZONE AE
- ORDINARY HIGH WATER LINE
- STORMWATER FLOW DIRECTION FROM EXISTING OUTFALL
- WITHOUT BASE FLOOD ELEVATION (BFE) (100 YEAR FLOOD ZONE)
- REGULATORY FLOODWAY
- 0.2% ANNUAL CHANCE FLOOD HAZARD, AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTH LESS THAN ONE FOOT OR WITH DRAINAGE AREAS OF LESS THAN ONE SQUARE MILE

NOTE:
SOIL CLASSIFICATIONS AND DEPTH TO WATER INFORMATION ARE PROVIDED IN THE PROJECT SOILS REPORT DATED AUGUST 19, 2020.

NRCS SOIL TYPES
 103 - RIPPONAM FINE SANDY LOAM
 104 - BASH SILT LOAM
 35A - PENWOOD LOAMY SAND, 0-3% SLOPE
 35B - PENWOOD LOAMY SAND, 3-8% SLOPE
 305 - UDORTHENTS-PITS COMPLEX, GRAVELLY
 307 - URBAN LAND

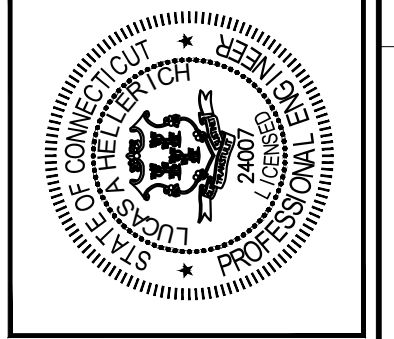
BOUNDARIES ON THIS PARCEL WERE ESTIMATED BASED ON TOWN OF WALLINGFORD GIS INFORMATION

NOTE: A DECLARATION OF ENVIRONMENTAL LAND USE RESTRICTION AND GRANT OF EASEMENT, DATED DECEMBER 17, 2010, RECORDED ON JANUARY 13, 2011, APPLIES TO 21 AND 25 TOELLES ROAD, WALLINGFORD, CONNECTICUT. NO RESIDENTIAL ACTIVITY SHALL BE PERMITTED AT THE PROPERTY.

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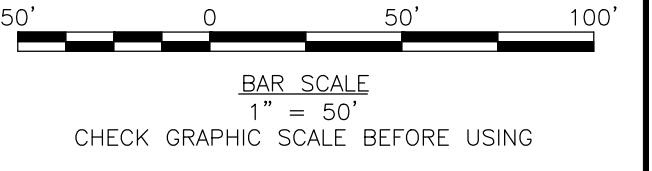
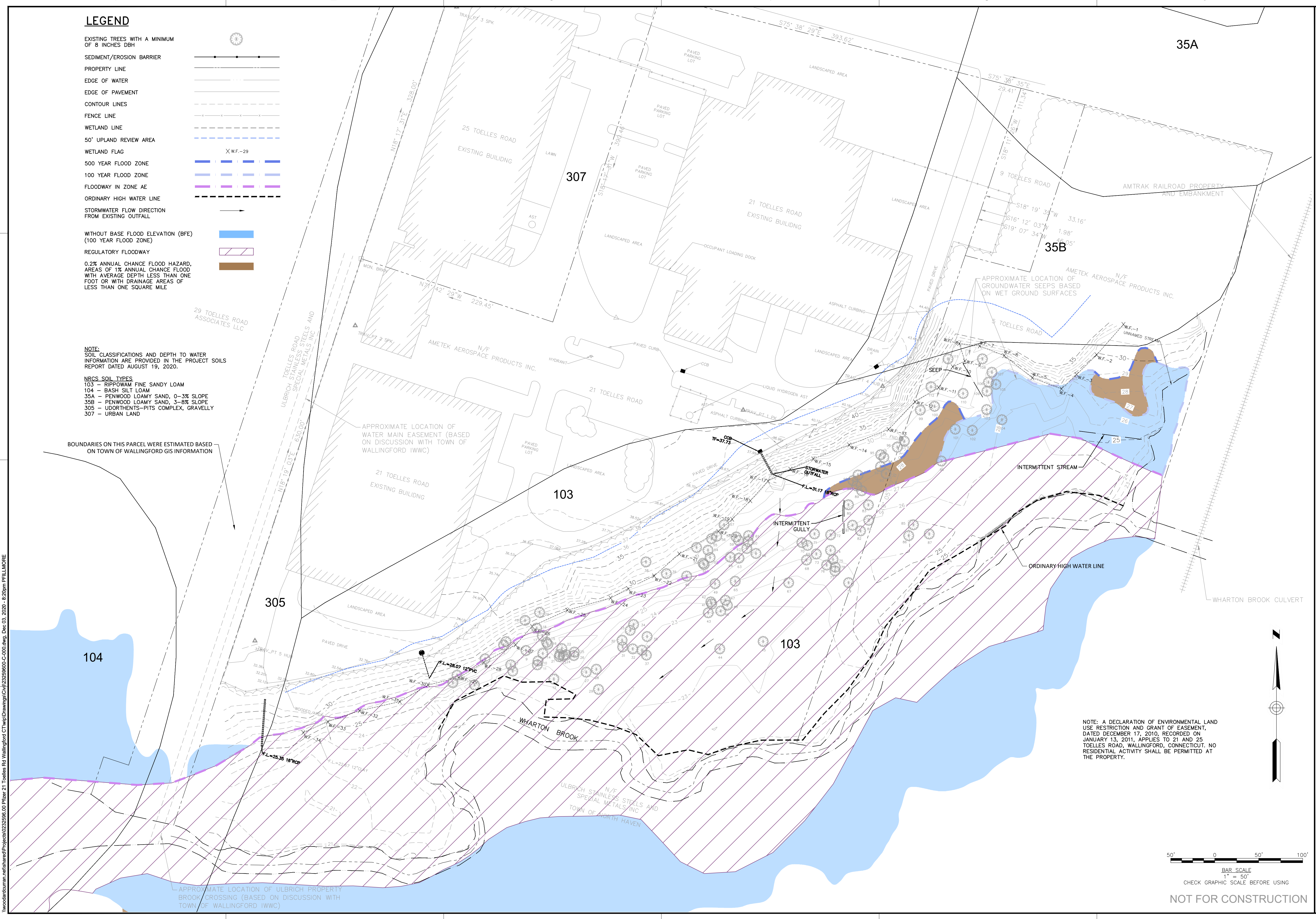
EXISTING CONDITIONS PLAN

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO: 0232596.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 4 OF 13

C-000



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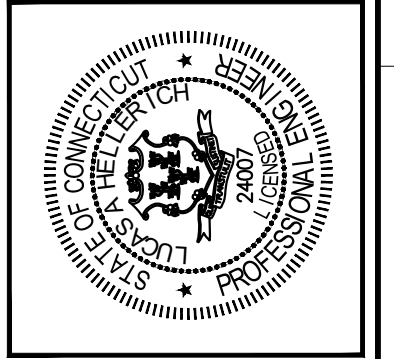
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LEGEND	
EXCAVATION TO 6"	[Symbol]
SEDIMENT/EROSION BARRIER	[Symbol]
EXCAVATION TO 2'	[Symbol]
PROPERTY LINE	[Symbol]
EDGE OF WATER	[Symbol]
EDGE OF PAVEMENT	[Symbol]
CONTOUR LINES	[Symbol]
FENCE LINE	[Symbol]
WETLAND LINE	[Symbol]
50' UPLAND REVIEW AREA	[Symbol]
WETLAND FLAG	[Symbol]
500 YEAR FLOOD ZONE	[Symbol]
100 YEAR FLOOD ZONE	[Symbol]
FLOODWAY IN ZONE AE	[Symbol]
ORDINARY HIGH WATER LINE	[Symbol]
STORMWATER FLOW DIRECTION FROM PROPOSED TEMPORARY OUTFALL	[Symbol]
STRAW WATTLES	[Symbol]

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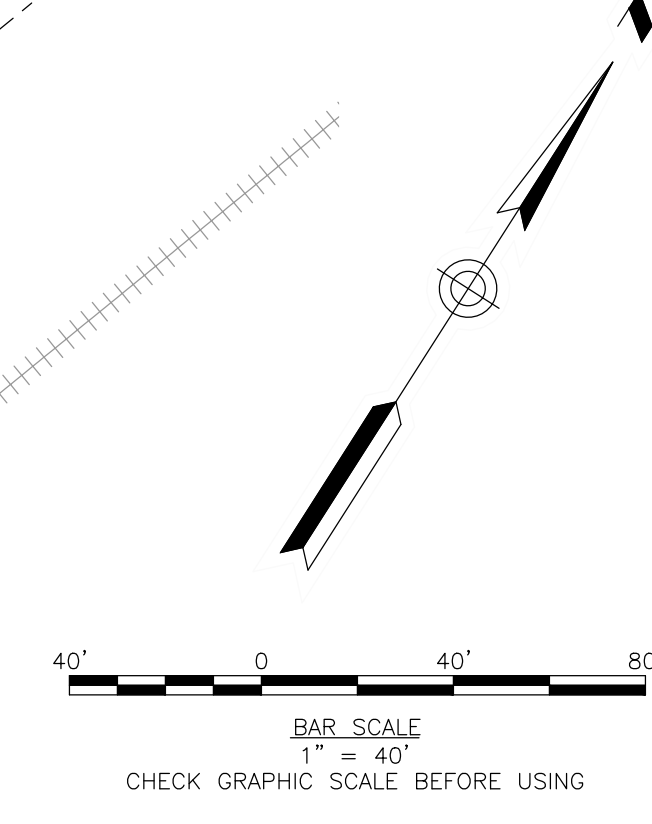
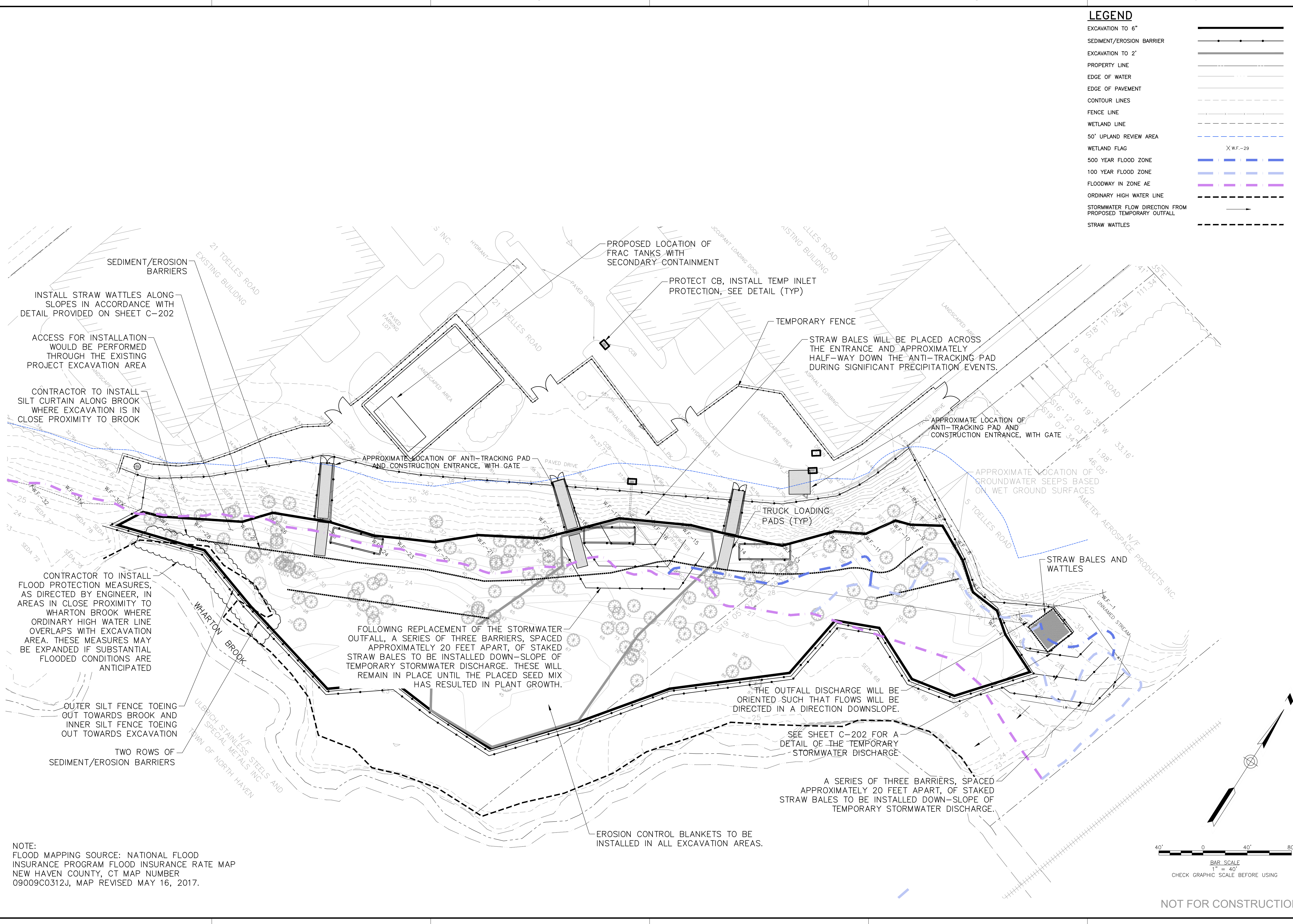
EROSION AND SEDIMENTATION CONTROLS

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO:	023296.00
DATE:	DECEMBER, 2020
SCALE:	AS NOTED
SHEET:	5 OF 13

C-001



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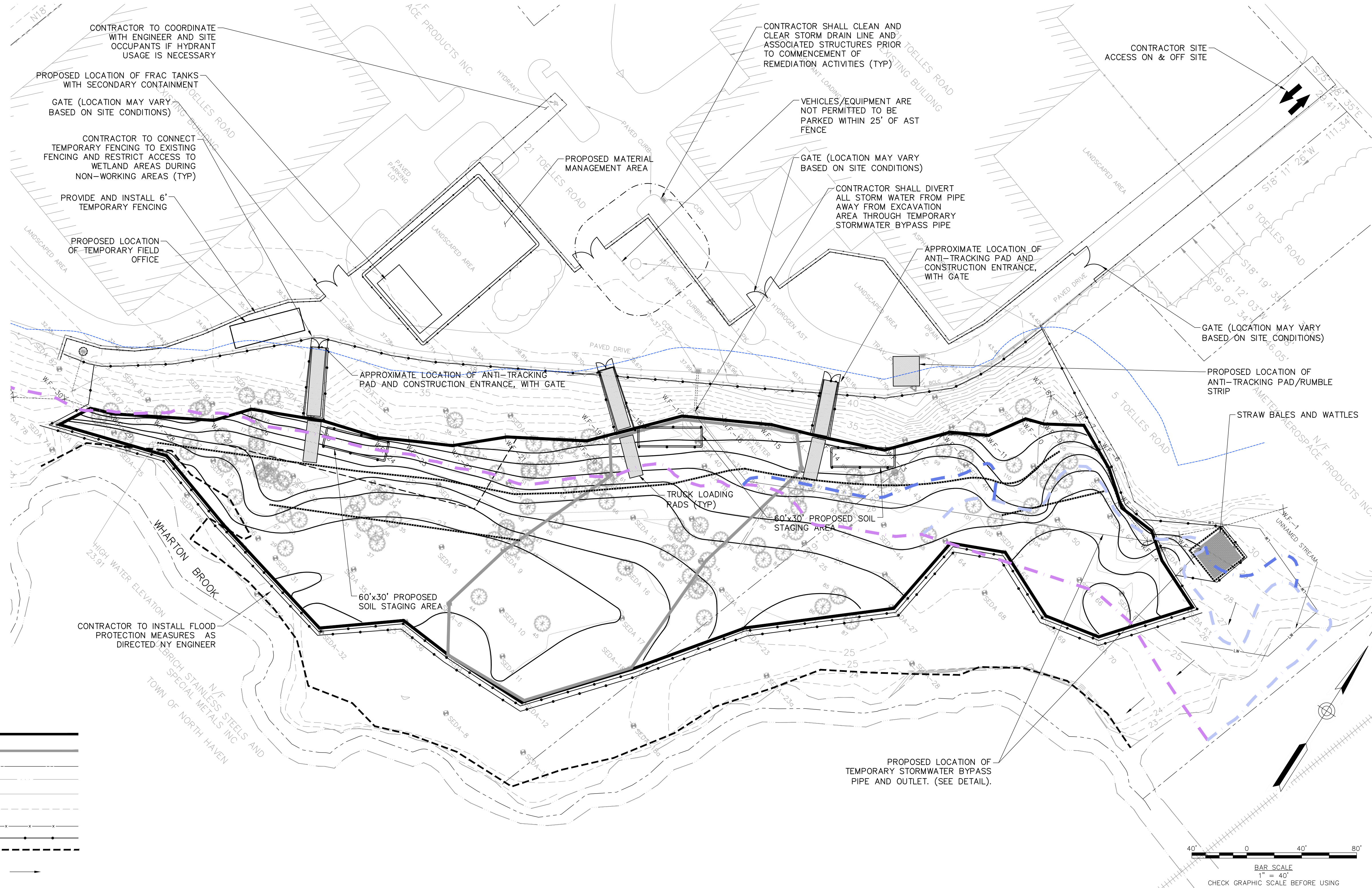
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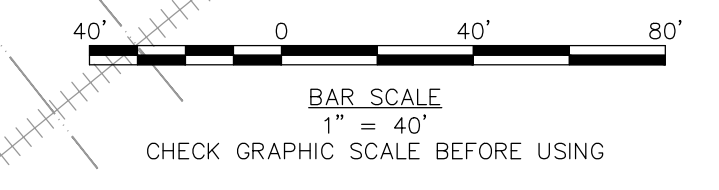
GENERAL NOTES

1. THE ALLOWABLE LOCATIONS FOR CONTRACTOR'S SITE ACCESS LAYDOWN AREAS, AND PARKING ARE DEPICTED ON THIS PLAN.
2. CONTRACTOR TO CLEAN DRAIN LINES AND ASSOCIATED STRUCTURES DEPICTED ON THIS PLAN TO THE STORM DRAIN OUTLET OR AS OTHERWISE SPECIFIED BY THE ENGINEER.
3. THE CONTRACTOR SHALL PREPARE, IMPLEMENT, AND KEEP CURRENT A TRAFFIC CONTROL AND SITE ACCESS PLAN. TENANT AND VISITOR ACCESS TO THE PROPERTY SURROUNDING THE WORK AREA SHALL BE MAINTAINED IN A SAFE AND RELIABLE MANNER IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. MINIMUM MEASURES ARE SHOWN ON THE PLAN.
4. THE CONTRACTOR SHALL COORDINATE AND PROVIDE ALL REQUIRED TEMPORARY FACILITIES, EROSION CONTROL MEASURES, AND TEMPORARY FENCING AND GATES IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
5. THE LOCATION FOR TEMPORARY FENCING AND GATES SHALL BE POSITIONED TO ALLOW ACCESS TO EXISTING FIRE HYDRANTS, STANDPIPES, DOORWAYS, UTILITIES, AND ETC, BY EMERGENCY PERSONNEL AND VEHICLES.
6. CONTRACTOR SHALL VACUUM SWEEP CLEAN ALL PAVED AREAS DEPICTED ON THIS PLAN AND TRAFFIC ROUTES WEEKLY, AND AT THE END OF THE WORK DAY ON FRIDAY.
7. EQUIPMENT UTILIZED WITHIN THE LIMITS OF EXCAVATION SHALL BE WASHED DOWN AT THE END OF EACH WORK DAY AND STORED OUTSIDE OF THE LIMITS OF EXCAVATION AT A LOCATION APPROVED BY THE ENGINEER.



LEGEND

- EXCAVATION TO 6"
- EXCAVATION TO 2'
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF PAVEMENT
- CONTOUR LINES
- FENCE LINE
- SEDIMENT/EROSION BARRIER
- ORDINARY HIGH WATER LINE
- STORMWATER FLOW DIRECTION FROM PROPOSED TEMPORARY OUTFALL
- 50' UPLAND REVIEW AREA
- STRAW WATTLES

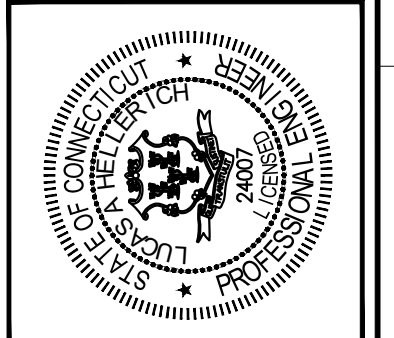


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SITE PREPARATION AND MATERIALS MANAGEMENT

5 & 21 TOELLE'S ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO:	023296.00
DATE:	DECEMBER, 2020
SCALE:	AS NOTED
SHEET:	6 OF 13

C-002

WoodardCurran.net\Shared\Projects\023296.00_Plan 21 Toelles Rd Wallingford CT\wpDrawings\Civil\23296.00-C-002.dwg, Dec 03, 2020, 8:20pm PFL\MORE

LEGEND

EXCAVATION TO 6"	[Symbol]
EXCAVATION TO 24"	[Symbol]
PROPERTY LINE	[Symbol]
EDGE OF WATER	[Symbol]
EDGE OF PAVEMENT	[Symbol]
CONTOUR LINES	[Symbol]
FENCE LINE	[Symbol]
WETLAND LINE	[Symbol]
WETLAND FLAG	[Symbol]
TREE TO BE RETAINED AND ITS DRIP LINE (DIAMETER AT BREAST HEIGHT AT LEAST 15")	[Symbol]
EXISTING TREE WITH MINIMUM 8 INCHES DBH	[Symbol]
LIMIT OF WORK	[Symbol]
LIMIT OF 2' EXCAVATION	[Symbol]
LIMIT OF 6" EXCAVATION	[Symbol]
ORDINARY HIGH WATER LINE	[Symbol]
500 YEAR FLOOD ZONE	[Symbol]
100 YEAR FLOOD ZONE	[Symbol]
FLOODWAY IN ZONE AE	[Symbol]
50' UPLAND REVIEW AREA	[Symbol]
APPROXIMATE DIVIDING LINE BETWEEN EXCAVATION CELLS	[Symbol]



MINIMUM LIMITS OF EXCAVATION VIA HAND TOOLS AND SMALL EQUIPMENT (TYP.)

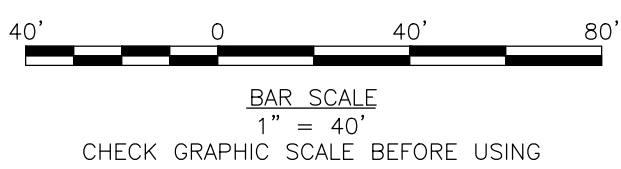
EXCAVATION TO NOT BE PERFORMED OUTSIDE OF WETLAND LIMITS

GENERAL NOTES

1. THE OVERALL EXCAVATION AREA IS 97,661 SF (2.24 AC).
2. THE EXCAVATION AREA TO 6" IS 70,470 SF (1.62 AC).
3. THE EXCAVATION AREA TO 24" IS 27,191 SF (0.62 AC).

EXCAVATION CELLS

- THE SIX INCH EXCAVATION AREAS WERE DIVIDED UP INTO 13 CELLS OF APPROXIMATELY 100 CY AND 5,500 SF EACH.
- THE TWO FOOT EXCAVATION AREAS WERE DIVIDED UP INTO 10 CELLS OF APPROXIMATELY 200 CY AND 2,700 SF EACH.
- THE CELL BOUNDARIES MAY BE ADJUSTED IN THE FIELD.



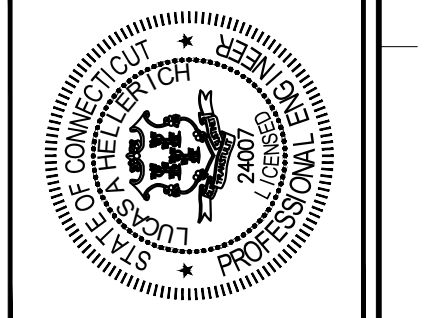
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PROPOSED LIMITS OF SOIL EXCAVATION

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO: 0232596.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 7 OF 13

C-003

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LEGEND

- LANDSCAPED AREAS
- ASPHALT/CURBING/PAVED AREAS
- WETLAND RESTORATION
- UPLAND AREA
- TREE TO BE RETAINED AND ITS DRIP LINE (DIAMETER AT BREST HEIGHT AT LEAST 15")
- EXISTING TREE WITH MINIMUM 8 INCHES DBH
- LIMIT OF WORK
- ORDINARY HIGH WATER LINE
- 500 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- FLOODWAY IN ZONE AE
- 50' UPLAND REVIEW AREA

GENERAL NOTES

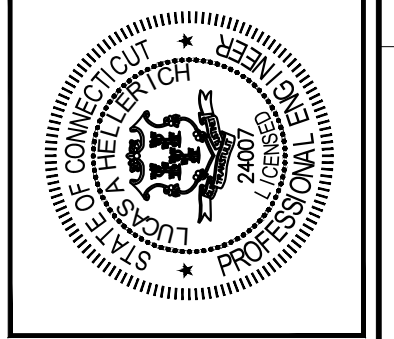
1. AREA AND ANY OTHER ADJACENT AREAS WITHIN WETLAND BOUNDARIES DISTURBED AS A RESULT OF REMEDIATION ACTIVITIES TO BE RESTORED PER WETLAND RESTORATION SPECIFICATION AND WETLAND RESTORATION PLAN (SEE SHEET C-005).
2. LANDSCAPED, UPLAND, ASPHALT, CURBING AND PAVED AREAS DAMAGED AS A RESULT OF REMEDIATION ACTIVITIES TO BE RESTORED TO PRE-CONSTRUCTION CONDITION PER THE SITE RESTORATION SPECIFICATIONS.
3. WITHIN THE 2-FOOT EXCAVATION AREA, BACKFILL EXCAVATED AREAS WITH CLEAN IMPORTED BANKRUN GRAVEL TO A DEPTH OF APPROXIMATELY 12-INCHES BELOW THE FINAL GRADE. THE REMAINING 12-INCHES WILL BE BACKFILLED WITH ORGANIC WETLAND SOILS IN ACCORDANCE WITH APPROVED FEDERAL, STATE AND LOCAL PERMITS. WITHIN THE 6-INCH EXCAVATION AREA, THE EXCAVATION AREA WILL BE BACKFILLED WITH ORGANIC WETLAND SOILS.
4. PLANTING AND SEEDING OF WETLAND EXCAVATED AREA IN ACCORDANCE WITH APPROVED FEDERAL, STATE AND LOCAL PERMITS AND WETLAND PLANTING TABLES ON SHEET C-005.

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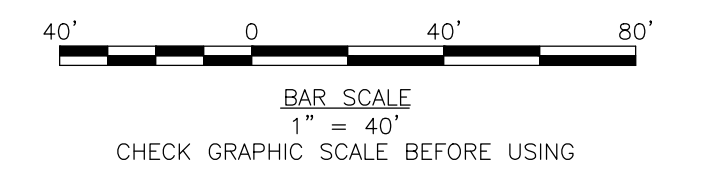
SITE RESTORATION PLAN

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

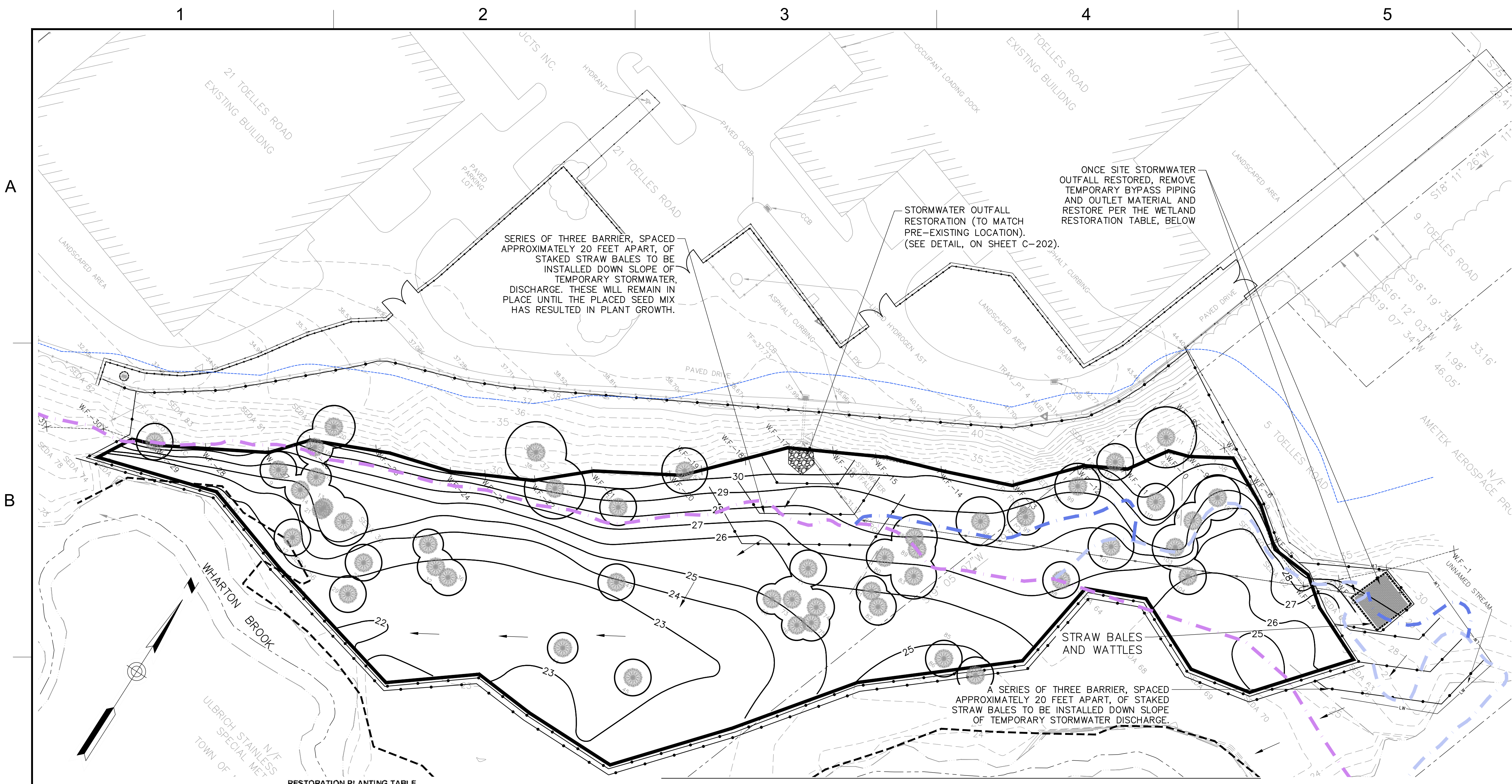
JOB NO: 0232596.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 8 OF 13

C-004



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LEGEND

- LIMIT OF WETLAND RESTORATION
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF PAVEMENT
- CONTOUR LINES (EXISTING)
- FENCE LINE
- WETLAND LINE
- WETLAND FLAG
- CONTOUR LINES (PROPOSED)
- TREE TO BE RETAINED AND ITS DRIP LINE (DIAMETER AT BREAST HEIGHT AT LEAST 15')
- ORDINARY HIGH WATER LINE
- 500 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- FLOODWAY IN ZONE AE
- 50' UPLAND REVIEW AREA
- STORMWATER FLOW DIRECTION FROM PROPOSED TEMPORARY OUTFALL

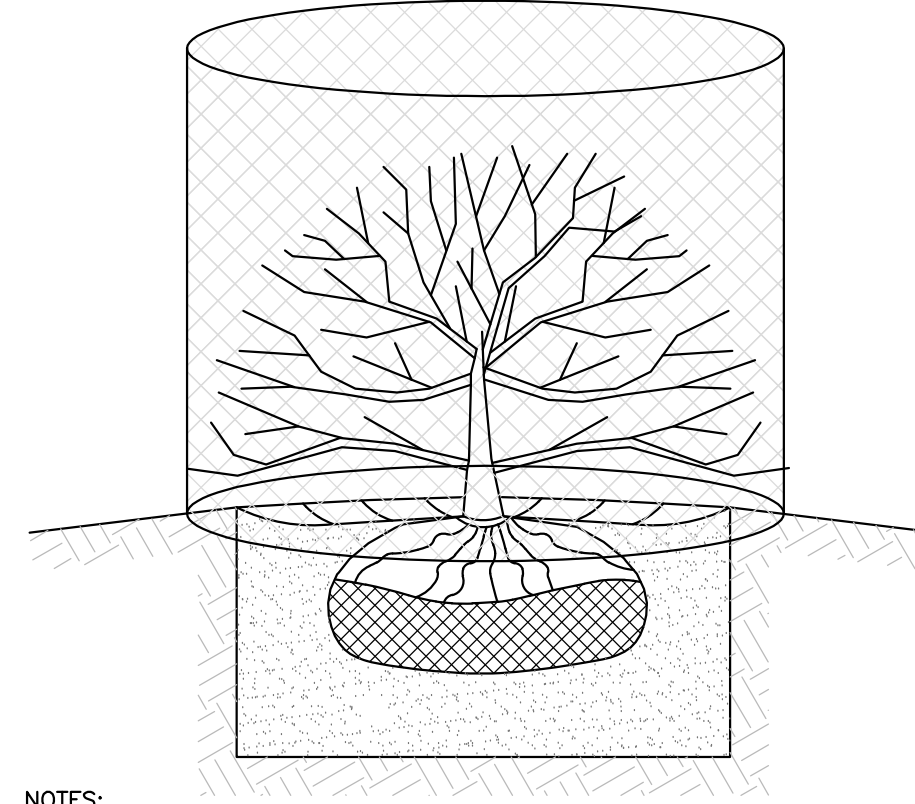
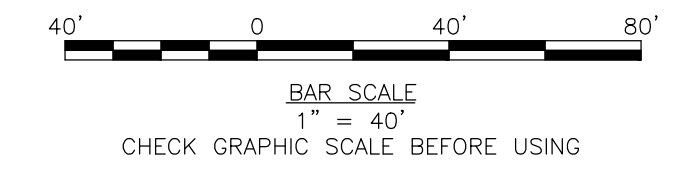
GENERAL NOTES

- EROSION AND SEDIMENTATION CONTROLS WILL BE INSTALLED AROUND ALL EXCAVATION AREAS PRIOR TO GROUND DISTURBANCE AND WILL REMAIN IN PLACE UNTIL THE GROUND IS STABILIZED FOLLOWING RESTORATION AS DIRECTED BY ENGINEER.
- ALL EXCAVATION AREAS WILL BE BACKFILLED AND RESTORED WITH WETLAND SOIL AND PLANTINGS.
- THE ESTIMATED OVERALL RESTORATION AREA IS 106,325 SF (2.44 AC) (INCLUDES WETLAND AND UPLAND AREAS).
- THE CUT-OFF DATE FOR SPRING PLANTING WILL BE APPROXIMATELY JUNE 15 AND THE CUT-OFF DATE FOR FALL PLANTING WILL BE APPROXIMATELY OCTOBER 31; HOWEVER, THESE DATES MAY BE SUBJECT TO CHANGE BASED ON SEASONAL CONDITIONS.
- DEER FENCE WILL BE CONNECTED TO THE EXISTING CHAIN LINK FENCE NEAR WETLAND FLAGS W.F.-7 AND W.F.-30 AND INSTALLED, IMMEDIATELY FOLLOWING PLANTING, TO SURROUND THE EXCAVATION AND RESTORATION AREA. A MINIMUM 15 FOOT WIDE BUFFER BETWEEN THE DEER FENCE AND WHARTON BROOK WILL BE PROVIDED FOR LARGER ANIMAL (E.G. DEER) PASSAGE. IN AREA OUTSIDE OF WHERE THE FENCE CANNOT BE INSTALLED, PROTECTIVE WIRE-MESH STYLE CAGES, OR EQUIVALENT AS APPROVED BY THE ENGINEER, WILL BE INSTALLED IMMEDIATELY FOLLOWING PLANTING. DETAILS OF THE DEER FENCE AND CAGE ARE PROVIDED ON THIS SHEET. THE TEMPORARY FENCE AND CAGES WILL BE REMOVED ONCE THE PLANTINGS HAVE BEEN ESTABLISHED, FOLLOWING THE FIRST POSTRESTORATION GROWING SEASON.

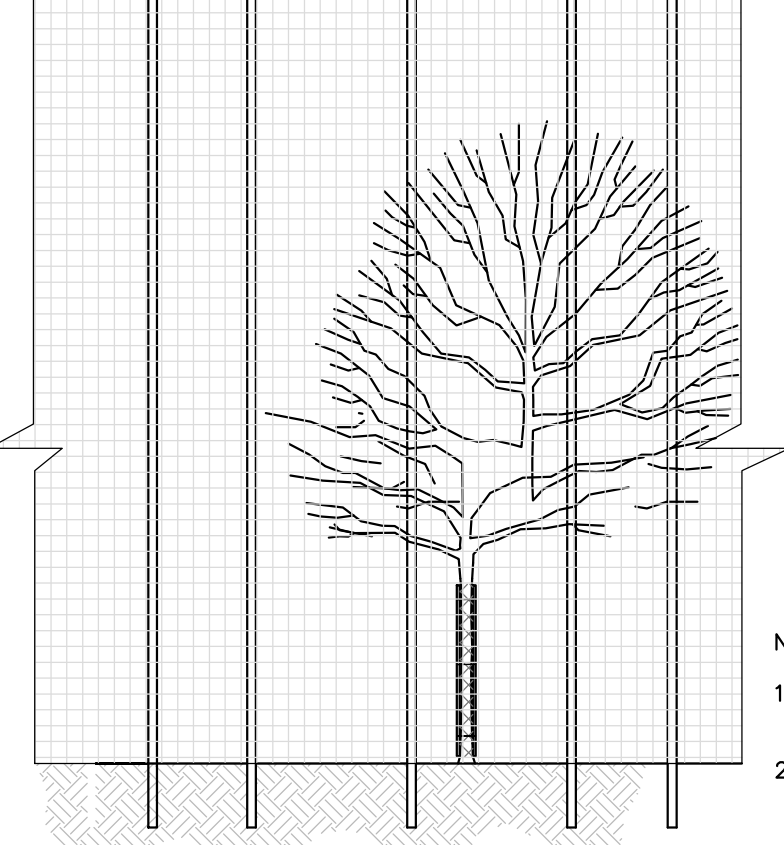
RESTORATION PLANTING TABLE

Habitat	Area	Stratum	Common name	Scientific name	Wetland Indicator Code	Size	Container	Spacing	#	Notes		
Upland Access Routes*	per 1,000 SF	Herbaceous	New England Conservation Wildlife Mix ¹ (or similar)	-	-	-	seed	1 lb / 1750 ft ²	TBD	Sow throughout.		
		Shrubs	smooth arrowwood	<i>Viburnum recognitum</i>	FAC	2'-3'	rc	5' center	1			
			elderberry	<i>Sambucus racemosa</i>	FACU	2'-3'	rc	5' center	1			
			sweet pepperbush	<i>Clethra alnifolia</i>	FAC	2'-3'	rc	5' center	2			
		Trees	tuliptree	<i>Liriodendron tulipifera</i>	FACU	3'-4'	rc	10' center	3			
			red maple	<i>Acer rubrum</i>	FAC	3'-4'	rc	10' center	2			
			red oak	<i>Quercus rubra</i>	FACU	3'-4'	rc	10' center	2			
			boxelder	<i>Acer negundo</i>	FAC	3'-4'	rc	10' center	3			
		Palustrine Forested (PFO)	95,832 SF	Herbaceous	sensitive fern	<i>Onoclea sensibilis</i>	FACW	12" approx.	gc	3' center	500	Locate species in wetter or drier areas based on wetland indicator code
					cinnamon fern	<i>Osmunda cinnamomea</i>	FACW	12" approx.	gc	3' center	500	
green bulrush	<i>Scirpus atrovirens</i>				OBL	2"	plugs	1' center	500			
lakebank sedge	<i>Carex lacustris</i>				OBL	2"	plugs	1' center	500			
soft rush	<i>Juncus effusus</i>				OBL	2"	plugs	1' center	500			
sweet woodreed	<i>Cinna arundinacea</i>				FACW	2"	plugs	1' center	500			
New England aster	<i>Symphoricarpos novae-angliae</i>			FACW	2"	plugs	1' center	500				
skunk cabbage	<i>Symplocarpus foetidus</i>			OBL	2"	plugs	1' center	500				
Virginia creeper	<i>Parthenocissus quinquefolia</i>			FACU	2"	plugs	1' center	500				
Wetland Forest Seed Mix ¹ (or similar)	-			-	-	seed	1 lb / 15,000 ft ²	6	Sow throughout.			
Shrubs	smooth arrowwood			<i>Viburnum recognitum</i>	FAC	2'-3'	rc	5' center	140	Locate shrubs in wetter or drier areas based on wetland indicator code		
	elderberry			<i>Sambucus nigra</i>	FACW	2'-3'	rc	5' center	50			
	sweet pepperbush			<i>Clethra alnifolia</i>	FAC	2'-3'	rc	5' center	140			
	highbush blueberry	<i>Vaccinium corymbosum</i>	FACW	2'-3'	rc	5' center	140					
	spicebush	<i>Lindera benzoin</i>	FACW	2'-3'	rc	5' center	140					
Trees	tuliptree	<i>Liriodendron tulipifera</i>	FACU	3'-4'	rc	10' center	50	Locate trees in wetter or drier areas based on wetland indicator code				
	shagbark hickory	<i>Carya ovata</i>	FACU	3'-4'	rc	10' center	25					
	red maple	<i>Acer rubrum</i>	FAC	3'-4'	rc	10' center	100					
	yellow birch	<i>Betula alleghensis</i>	FAC	3'-4'	rc	10' center	150					
	boxelder	<i>Acer negundo</i>	FAC	3'-4'	rc	10' center	150					
	black gum	<i>Nyssa sylvatica</i>	FAC	3'-4'	rc	10' center	50					
	American sycamore	<i>Platanus occidentalis</i>	FACW	3'-4'	rc	10' center	100					
	speckled alder	<i>Alnus incana</i>	FACW	3'-4'	rc	10' center	200					
American elm	<i>Ulmus americana</i>	FACW	3'-4'	rc	10' center	150						

- New England Wetland Plants, Inc. Species included in Conservation Wildlife Mix: Virginia Wild Rye (*Elymus virginicus*), Little Bluestem (*Schizachyrium scoparium*), Big Bluestem (*Andropogon gerardii*), Creeping Red Fescue (*Festuca rubra*), Switch Grass (*Panicum virgatum*), Partridge Pea (*Chamaecrista fasciculata*), Deer Tongue (*Panicum clandestinum*), Indian Grass (*Sorghastrum nutans*), Ox Eye Sunflower (*Helopsis helianthoides*), Common Milkweed (*Asclepias syriaca*), Spotted Joe Pye Weed (*Eupatorium maculatum*), Grass Leaved Goldenrod (*Euthamia graminifolia*), Blue Vervain (*Verbena hastata*), New England Aster (*Aster novae-angliae*), Early Goldenrod (*Solidago juncea*).
 - Southern Tier Consulting, Inc., Species included Northeast Wetland Forest Herb Mix: Green Bulrush (*Scirpus atrovirens*), Wool Grass (*Scirpus cyperinus*), Fox Sedge (*Carex vulpinoidea*), Canada Mannagrass (*Glyceria canadensis*), Blue Vervain (*Verbena hastata*), Reed Meadowgrass (*Glyceria grandis*), Fowl Mannagrass (*Glyceria striata*), Deertongue (*Panicum clandestinum*), White Vervain (*Verbena ulcifolia*), Melic Mannagrass (*Glyceria melicaria*), False Nettle (*Boehmeria cylindrica*), Stinging Nettle (*Urtica dioica*), Giant Goldenrod (*Solidago gigantea*), Witnikled Goldenrod (*Solidago rugosa*), Wood Reed (*Cinna arundinacea*), Whitegrass (*Leersia virginica*), Buttonbush (*Cephalanthus occidentalis*), Wild Rye (*Elymus canadensis*), Water Parsnip (*Sium suave*), Virginia Wild Rye (*Elymus virginicus*), Pennsylvania Smartweed (*Polygonum pensylvanicum*), Large-Leaf Avens (*Geum macrophyllum*), Riverbank Wild Rye (*Elymus riparius*), Water Dock (*Rumex verticillatus*), Swamp Milkweed (*Asclepias incarnata*), Shallow Sedge (*Carex lurida*), Turk's Cap Lily (*Lilium superbum*), Blackberry (*Rubus alleghensis*), Hop Sedge (*Carex lupulina*).
 - Refers to unmaintained upland access areas. Landscaped/asphalt areas to be restored per project specifications.
- Note: During planting, a qualified wetland professional may relocate up to 50 percent of the plants in each community type if as-built site conditions would pose an unreasonable threat to the survival of plantings installed according to the mitigation plan. The plantings shall be relocated to locations with suitable hydrology and soils and where appropriate structural context with other plantings can be maintained.
- Note: To reduce the immediate threat and minimize the long-term potential of degradation, the species included on the "Invasive and Other Unacceptable Plant Species" list in Appendix K of the New England District Compensatory Mitigation Guidance shall not be included as planting stock in the overall project. Only plant materials native and indigenous to the region shall be used. Species not specified in the mitigation plan shall not be used without prior written approval from the Corps.



PROTECTIVE WIRE-MESH STYLE CAGE

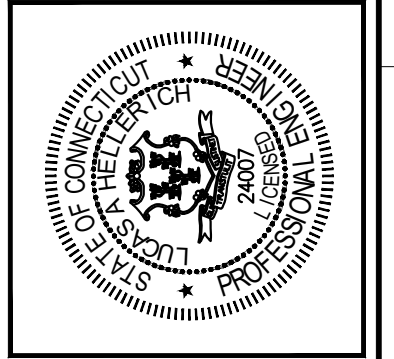


- NOTES:
1. DEER FENCE WILL BE A PLASTIC MESH FENCE ATTACHED TO TEMPORARY METAL DRIVEN POSTS. TENAX C FLEX DEER FENCE, OR SIMILAR, WILL BE USED.
2. THE FENCE WILL BE HUNG ON THE POSTS SUCH THAT AN 18 INCH GAP AT THE BOTTOM WILL BE PROVIDED TO ALLOW TURTLE/CRITTER PASSAGE.

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REV	DESCRIPTION	DATE
1	DESIGNED BY: JM	2/25/2020
2	CHECKED BY: LH	2/25/2020
3	DRAWN BY: CB	2/25/2020

WETLAND RESTORATION PLAN

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO: 0232596.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 9 OF 13

C-005

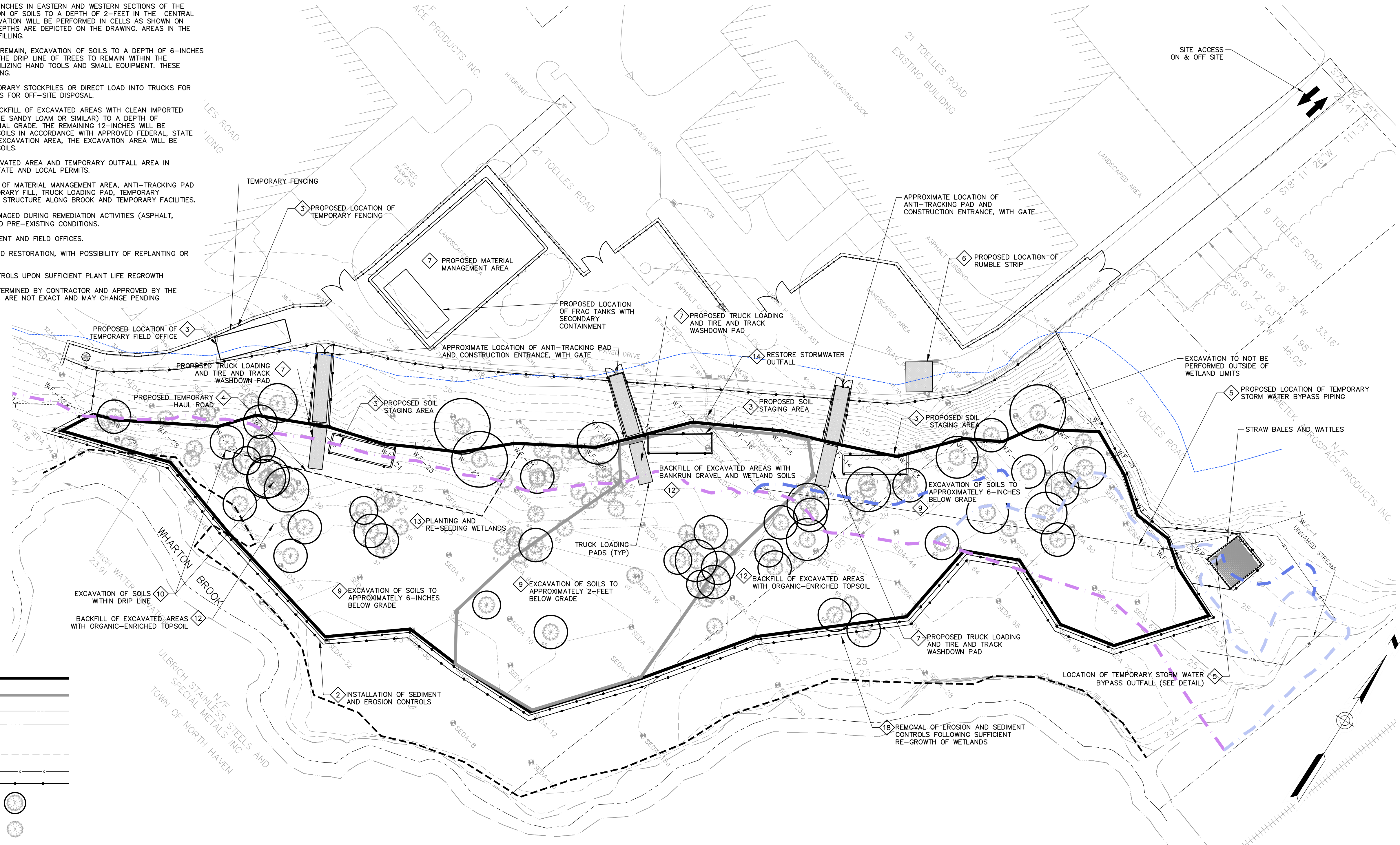
NOT FOR CONSTRUCTION

PROPOSED PROJECT SEQUENCING APPROACH

- 1 MOBILIZATION OF EQUIPMENT AND SUPPLIES TO THE SITE.
- 2 INSTALLATION OF EROSION AND SEDIMENT CONTROLS AROUND THE PERIMETER OF THE EXCAVATION, AS DEPICTED ON DRAWING.
- 3 SETUP OF FIELD OFFICES AND TEMPORARY FACILITIES (UTILITIES, TEMPORARY FENCING, ETC.)
- 4 INSTALLATION OF CONSTRUCTION ENTRANCES, WITH ASSOCIATED TEMPORARY ANTI-TRACKING PADS AND TEMPORARY FILLED AREAS, AND TEMPORARY HAUL ROADS WITH COMPOSITE ROAD MATS.
- 5 INSTALLATION OF TEMPORARY STORMWATER BYPASS PIPING, AS DEPICTED, AS WELL AS ENERGY DISSIPATION AND SILT FENCE AROUND THE OUTFALL (SEE DETAIL).
- 6 INSTALLATION OF RUMBLE STRIP.
- 7 SETUP OF MATERIAL MANAGEMENT AREAS, STOCKPILE AREAS, AND DECONTAMINATION AREA.
- 8 CLEARING AND GRUBBING OF EXISTING TREES AND BRUSH AS NEEDED. TREES WITH A DIAMETER OF AT LEAST 15-INCHES WILL REMAIN IN PLACE.
- 9 EXCAVATION OF SOILS TO A DEPTH OF 6-INCHES IN EASTERN AND WESTERN SECTIONS OF THE EXCAVATION, FOLLOWED BY THE EXCAVATION OF SOILS TO A DEPTH OF 2- FEET IN THE CENTRAL PORTION OF THE EXCAVATION AREA. EXCAVATION WILL BE PERFORMED IN CELLS AS SHOWN ON SHEET C-003. APPROXIMATE AREAS AND DEPTHS ARE DEPICTED ON THE DRAWING. AREAS IN THE FLOODWAY WILL BE PRIORITIZED FOR BACKFILLING.
- 10 AT THE LOCATIONS WHERE TREES ARE TO REMAIN, EXCAVATION OF SOILS TO A DEPTH OF 6-INCHES TO THE TOP OF THE TREE ROOTS WITHIN THE DRIP LINE OF TREES TO REMAIN WITHIN THE EXCAVATION AREA WILL BE PERFORMED UTILIZING HAND TOOLS AND SMALL EQUIPMENT. THESE AREAS WILL BE PRIORITIZED FOR BACKFILLING.
- 11 AS SOIL IS EXCAVATED, PLACE INTO TEMPORARY STOCKPILES OR DIRECT LOAD INTO TRUCKS FOR REMOVAL OF EXCAVATED SOILS AND DEBRIS FOR OFF-SITE DISPOSAL.
- 12 WITHIN THE 2-FOOT EXCAVATION AREA BACKFILL OF EXCAVATED AREAS WITH CLEAN IMPORTED BANKRUN GRAVEL (CONSISTENT WITH A FINE SANDY LOAM OR SIMILAR) TO A DEPTH OF APPROXIMATELY 12-INCHES BELOW THE FINAL GRADE. THE REMAINING 12-INCHES WILL BE BACKFILLED WITH ORGANIC-ENRICHED TOPSOILS IN ACCORDANCE WITH APPROVED FEDERAL, STATE AND LOCAL PERMITS. WITHIN THE 6-INCH EXCAVATION AREA, THE EXCAVATION AREA WILL BE BACKFILLED WITH ORGANIC-ENRICHED TOPSOILS.
- 13 PLANTING AND SEEDING OF WETLAND EXCAVATED AREA AND TEMPORARY OUTFALL AREA IN ACCORDANCE WITH APPROVED FEDERAL, STATE AND LOCAL PERMITS.
- 14 RESTORE STORMWATER OUTFALL. REMOVAL OF MATERIAL MANAGEMENT AREA, ANTI-TRACKING PAD AND CONSTRUCTION ENTRANCE AND TEMPORARY FILL, TRUCK LOADING PAD, TEMPORARY STORMWATER DIVERSION, WATER DIVERSION STRUCTURE ALONG BROOK AND TEMPORARY FACILITIES.
- 15 COMPLETE REPAIRS TO SITE FEATURES DAMAGED DURING REMEDIATION ACTIVITIES (ASPHALT, CURBING, FENCING, GRASS AREAS, ETC.) TO PRE-EXISTING CONDITIONS.
- 16 DEMOBILIZATION OF CONSTRUCTION EQUIPMENT AND FIELD OFFICES.
- 17 MONITORING AND MAINTENANCE OF WETLAND RESTORATION, WITH POSSIBILITY OF REPLANTING OR RESEEDING.
- 18 REMOVAL OF EROSION AND SEDIMENT CONTROLS UPON SUFFICIENT PLANT LIFE REGROWTH

NOTES: MEANS AND METHODS WILL BE DETERMINED BY CONTRACTOR AND APPROVED BY THE ENGINEER. LOCATIONS OF NOTED FEATURES ARE NOT EXACT AND MAY CHANGE PENDING CONTRACTOR INPUT.

SUMMARY OF PROPOSED IMPACTS		
ACTIVITY	WETLANDS	UPLAND REVIEW AREA
6" EXCAVATION AREA	70,470 SF	0 SF
2' EXCAVATION AREA	27,191 SF	0 SF
TEMPORARY ANTI-TRACKING STONE PADS AND TRUCK LOADING PADS (WITH TEMP FILL)	6,000 SF	6,000 SF
TEMPORARY STORMWATER OUTFALL	1,500 SF	0 SF
RESTORE STORMWATER OUTFALL	500 SF	0 SF
TOTAL	105,661 SF	6,000 SF



LEGEND

- EXCAVATION TO 6"
- EXCAVATION TO 2'
- PROPERTY LINE
- EDGE OF WATER
- EDGE OF PAVEMENT
- CONTOUR LINES
- FENCE LINE
- SEDIMENT/EROSION BARRIER
- TREE TO BE RETAINED AND ITS DRIP LINE (DIAMETER AT BRESTA HEIGHT LESS THAN 15")
- EXISTING TREE WITH MINIMUM 8 INCHES DBH
- ORDINARY HIGH WATER LINE
- 500 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- FLOODWAY IN ZONE AE
- 50' UPLAND REVIEW AREA

40' 0 40' 80'

BAR SCALE
1" = 40'
CHECK GRAPHIC SCALE BEFORE USING

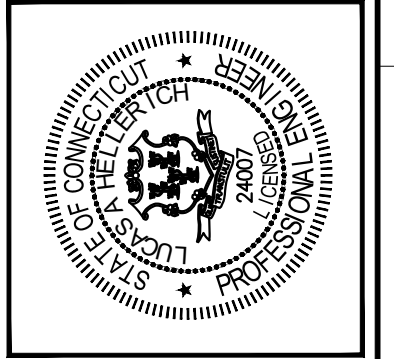
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REV	DESCRIPTION	DATE	DESIGNED BY	CHECKED BY	DRAWN BY

PROPOSED SITE SEQUENCING PLAN

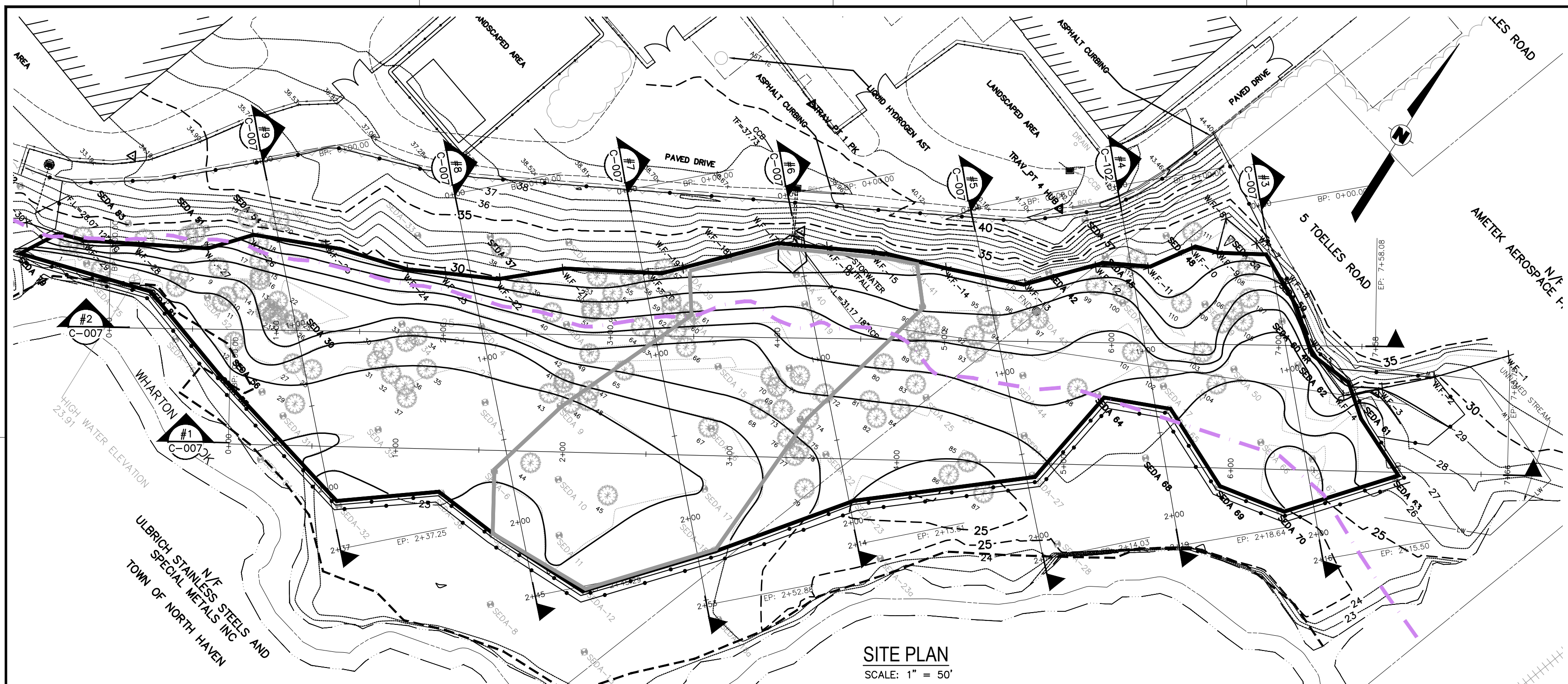
5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO: 0232996.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 10 OF 13

C-006

WoodardCurran.net\shared\Projects\0232996.00_Plan_21 Toelles Rd Wallingford CT\wpDrawings\Civil\23299600-C-006.dwg, Dec 03, 2020, 8:21pm PFL\MORE



SITE PLAN
SCALE: 1" = 50'

CUT/FILL SUMMARY FOR ENTIRE EXCAVATION

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME	1.000	1.000	97,661 Sq. Ft.	131.77 Cu. Yd.	128.78 Cu. Yd.	2.99 Cu. Yd.<Cut>
Totals			97,661 Sq. Ft.	131.77 Cu. Yd.	128.78 Cu. Yd.	2.99 Cu. Yd.<Cut>

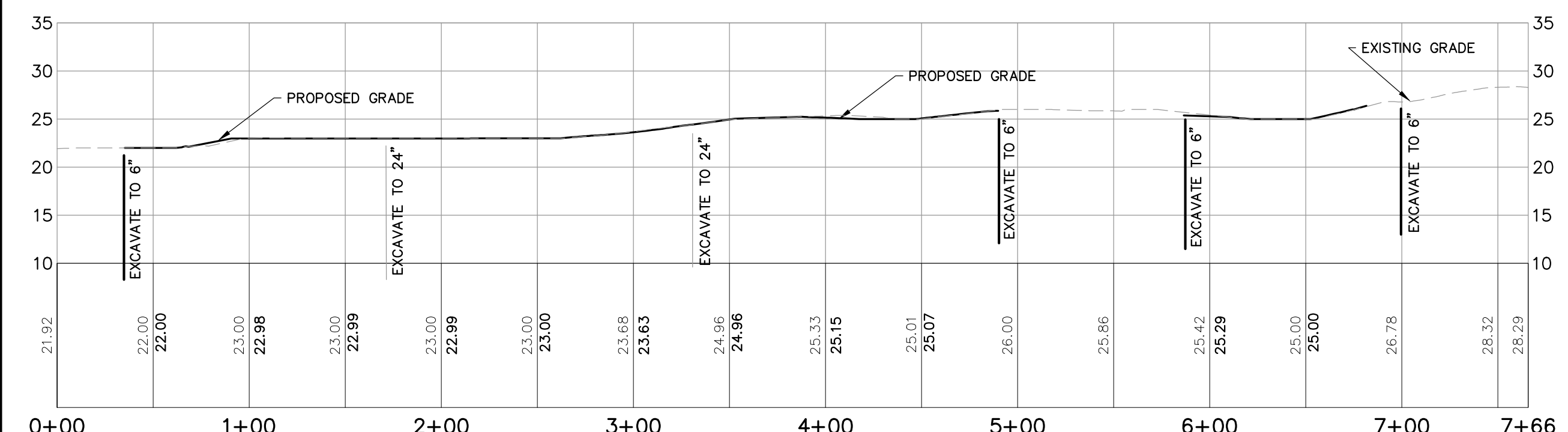
CUT/FILL SUMMARY FOR EXCAVATION WITHIN FLOODWAY

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
VOLUME	1.000	1.000	58,877 Sq. Ft.	76.67 Cu. Yd.	76.66 Cu. Yd.	0.01 Cu. Yd.<Cut>
Totals			58,877 Sq. Ft.	76.67 Cu. Yd.	76.66 Cu. Yd.	0.01 Cu. Yd.<Cut>

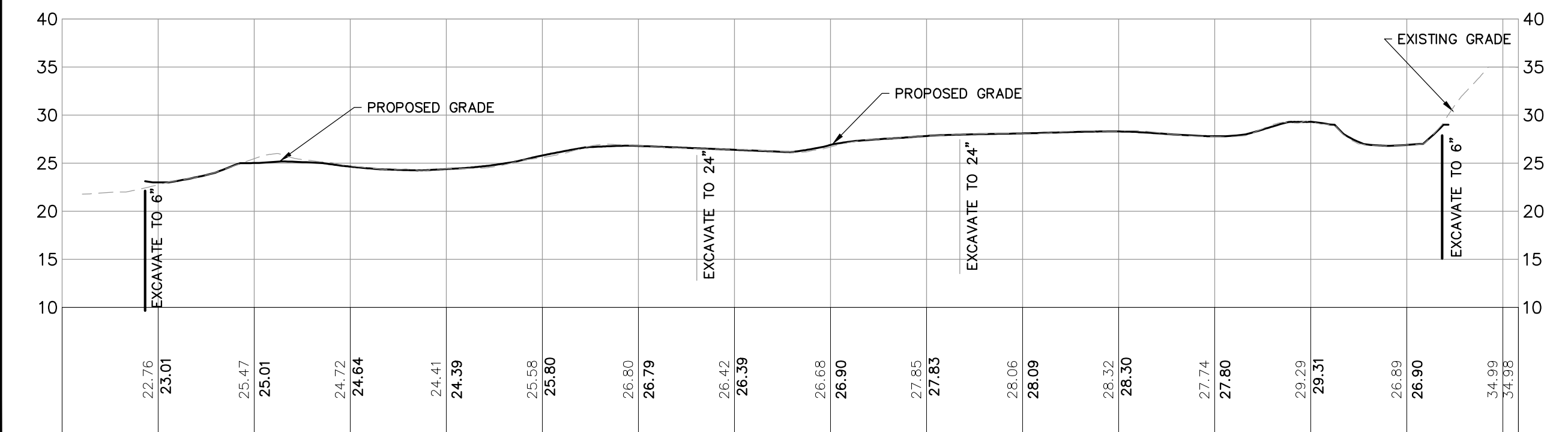
- NOTES:**
- CUT/FILL CALCULATIONS PERFORMED USING AUTOCAD CIVIL 3D SOFTWARE BASED ON COMPARISON OF EXISTING SURFACE TOPOGRAPHY VERSUS PROPOSED TOPOGRAPHY.
 - CUT/FILL FOR AREA WITHIN FLOODWAY IN ZONE AE IS BOUNDED BY THE FLOODWAY BOUNDARY SOUTH TO THE EDGE OF THE EXCAVATION AREA.

LEGEND

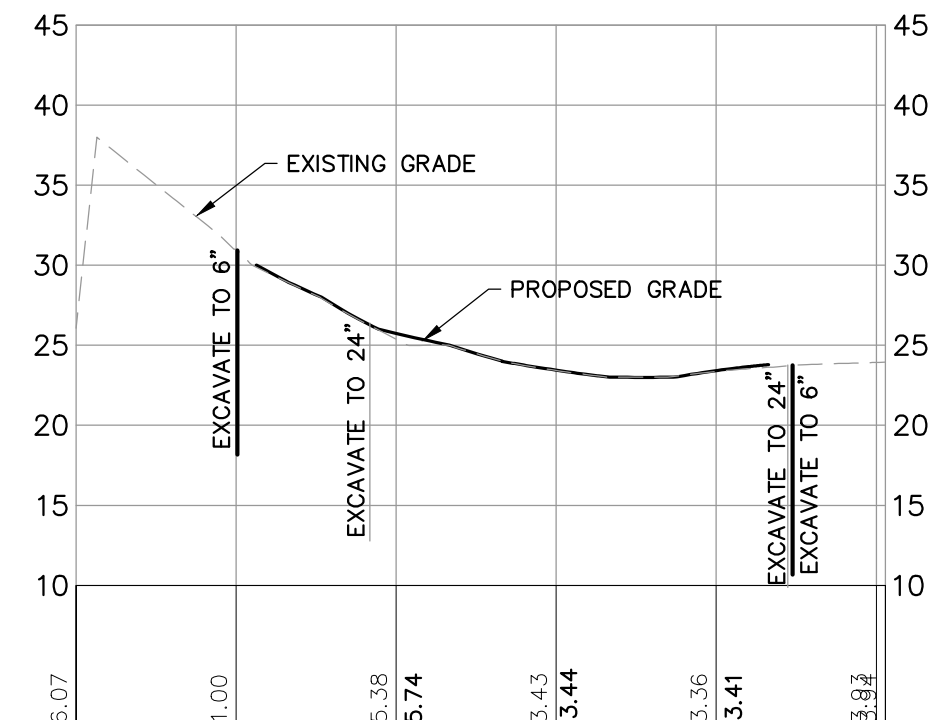
EXCAVATION TO 6"	—
EXCAVATION TO 24"	—
FLOODWAY IN ZONE AE	- - - - -
PROPERTY LINE	—
PROPOSED CONTOUR	—
EDGE OF WATER	—
EDGE OF PAVEMENT	—
CONTOUR LINES	—
FENCE LINE	—
WETLAND LINE	—
WETLAND FLAG	X W.F.-29
TREE	⊙



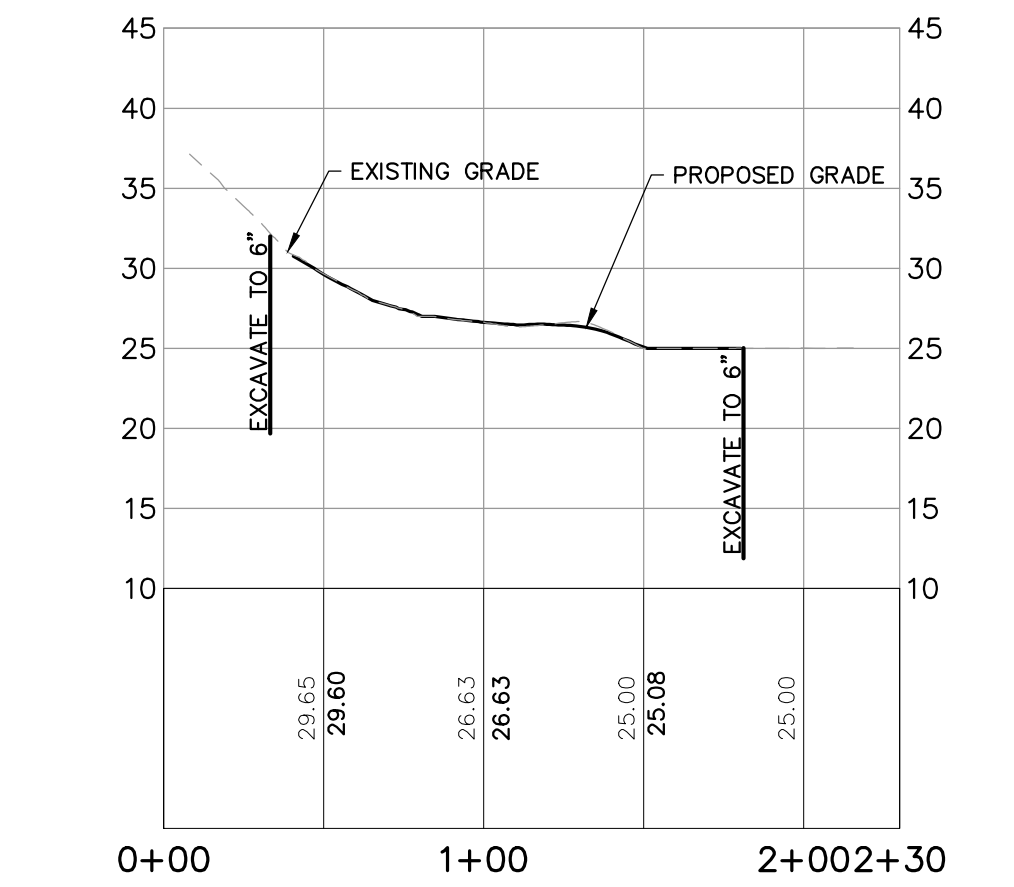
VIEW #1 (1) C-007
SCALE: AS NOTED



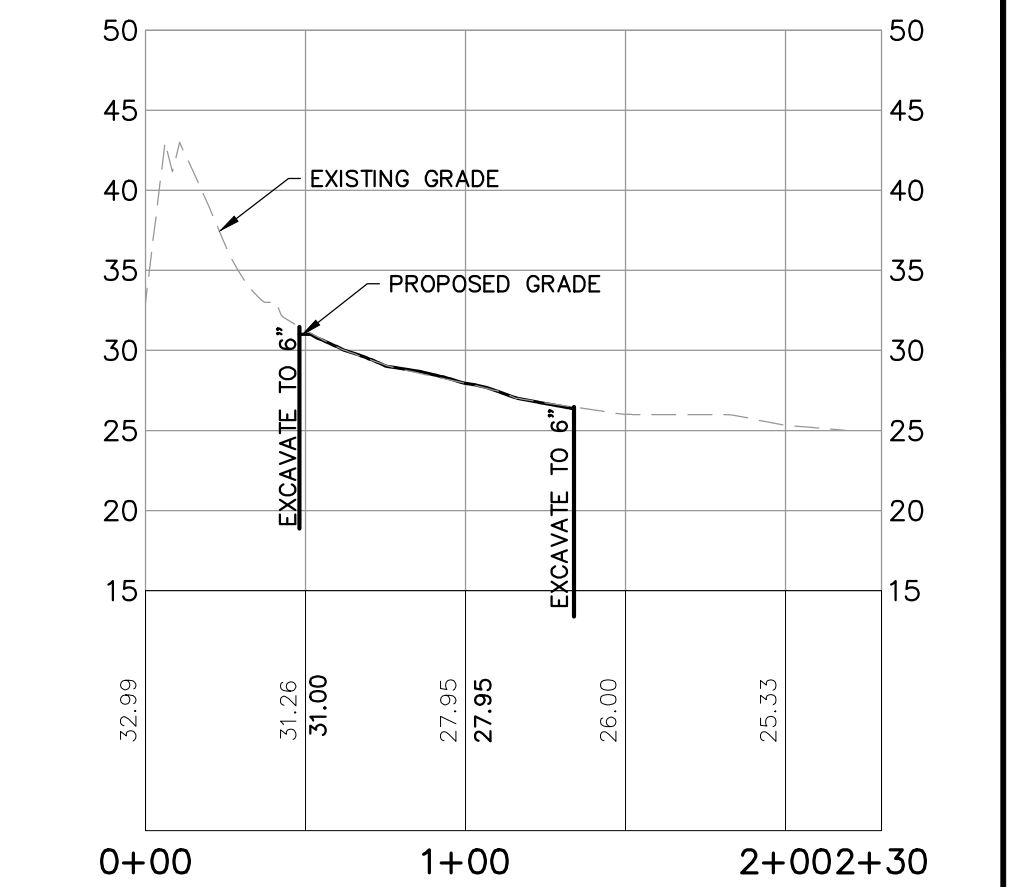
VIEW #2 (2) C-007
SCALE: AS NOTED



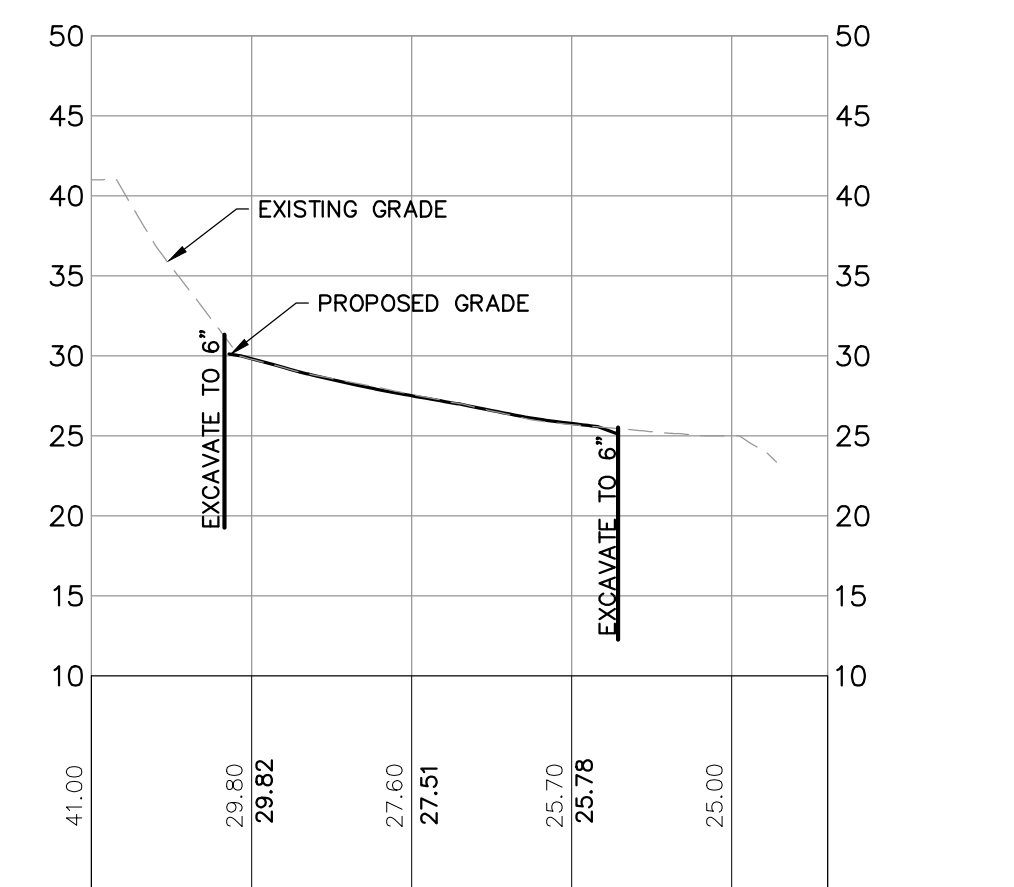
VIEW #7 (7) C-007
SCALE: AS NOTED



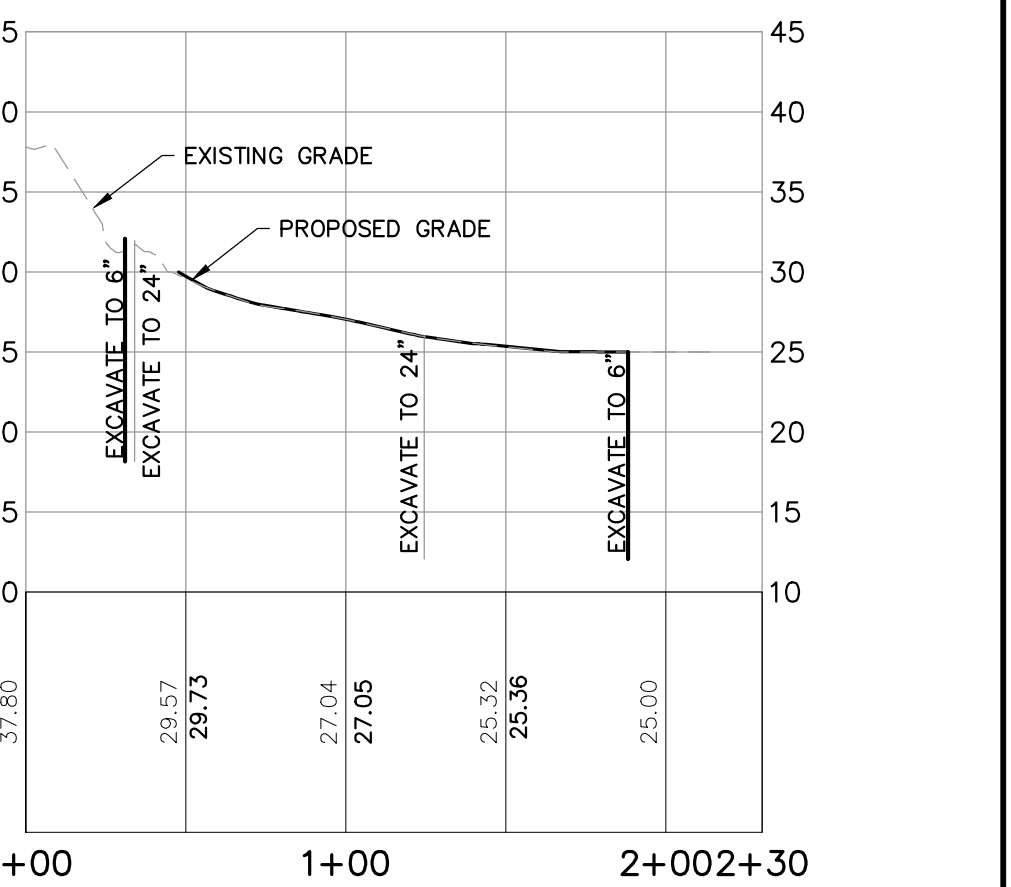
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SCALE: AS NOTED



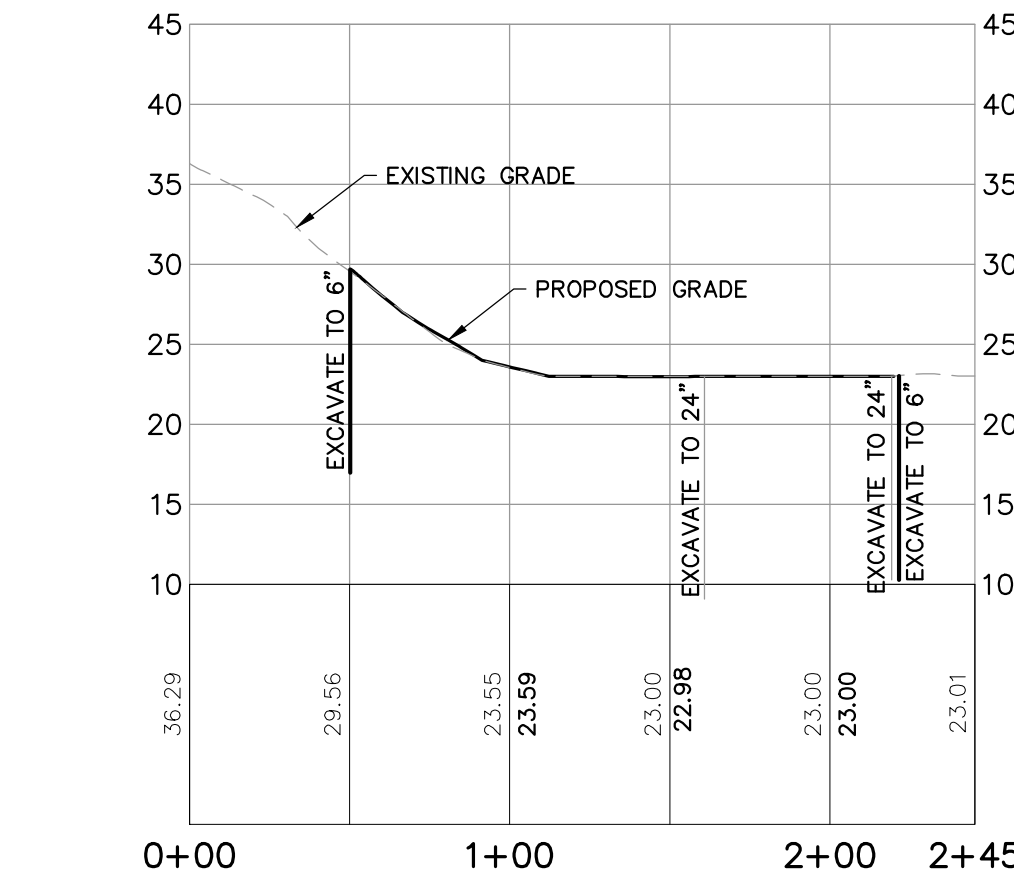
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SCALE: AS NOTED



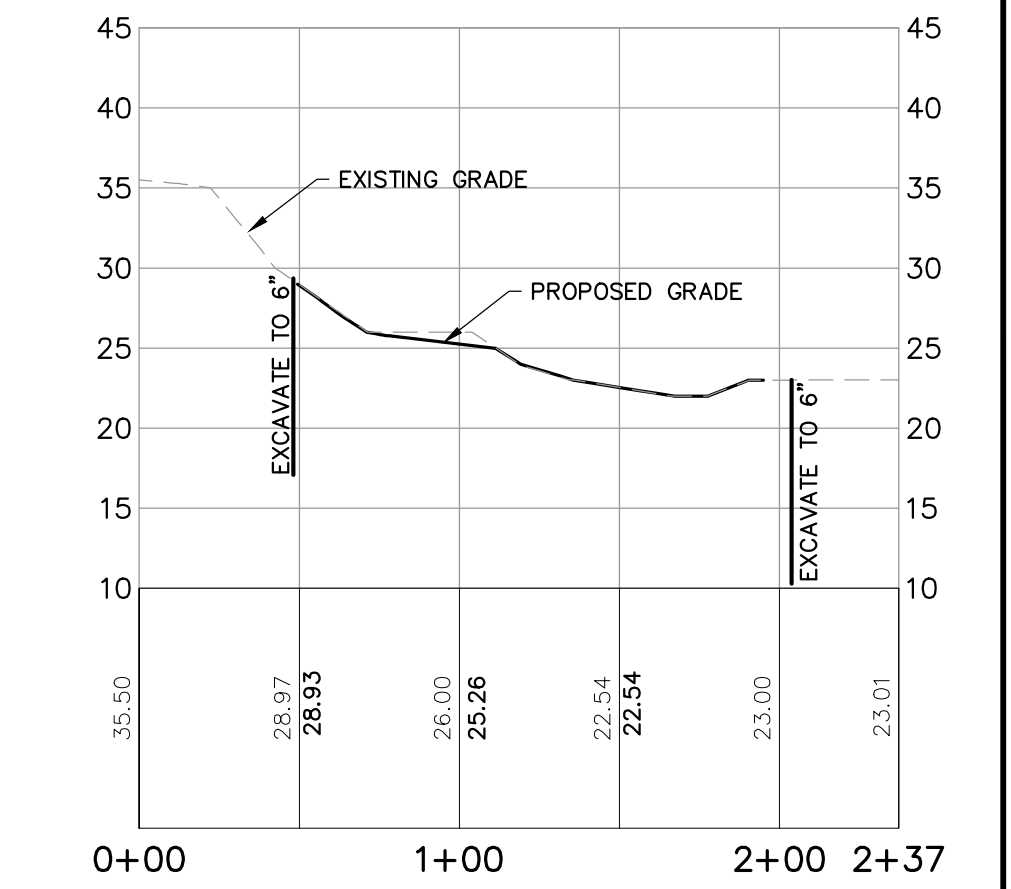
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SCALE: AS NOTED



VIEW #6 (6) C-007
SCALE: AS NOTED



VIEW #8 (8) C-007
SCALE: AS NOTED



VIEW #9 (9) C-007
SCALE: AS NOTED

BAR SCALE
1" = 60'
CHECK GRAPHIC SCALE BEFORE USING

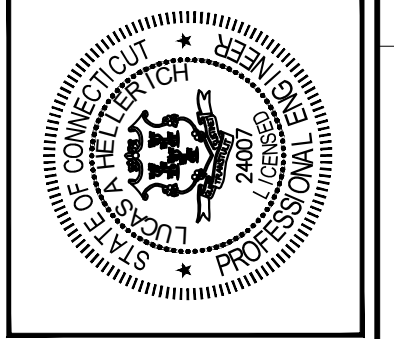
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REV	DESCRIPTION	DATE	CHECKED BY	DATE
			LH	
			CB/PP	

CUT/FILL AND SECTIONS

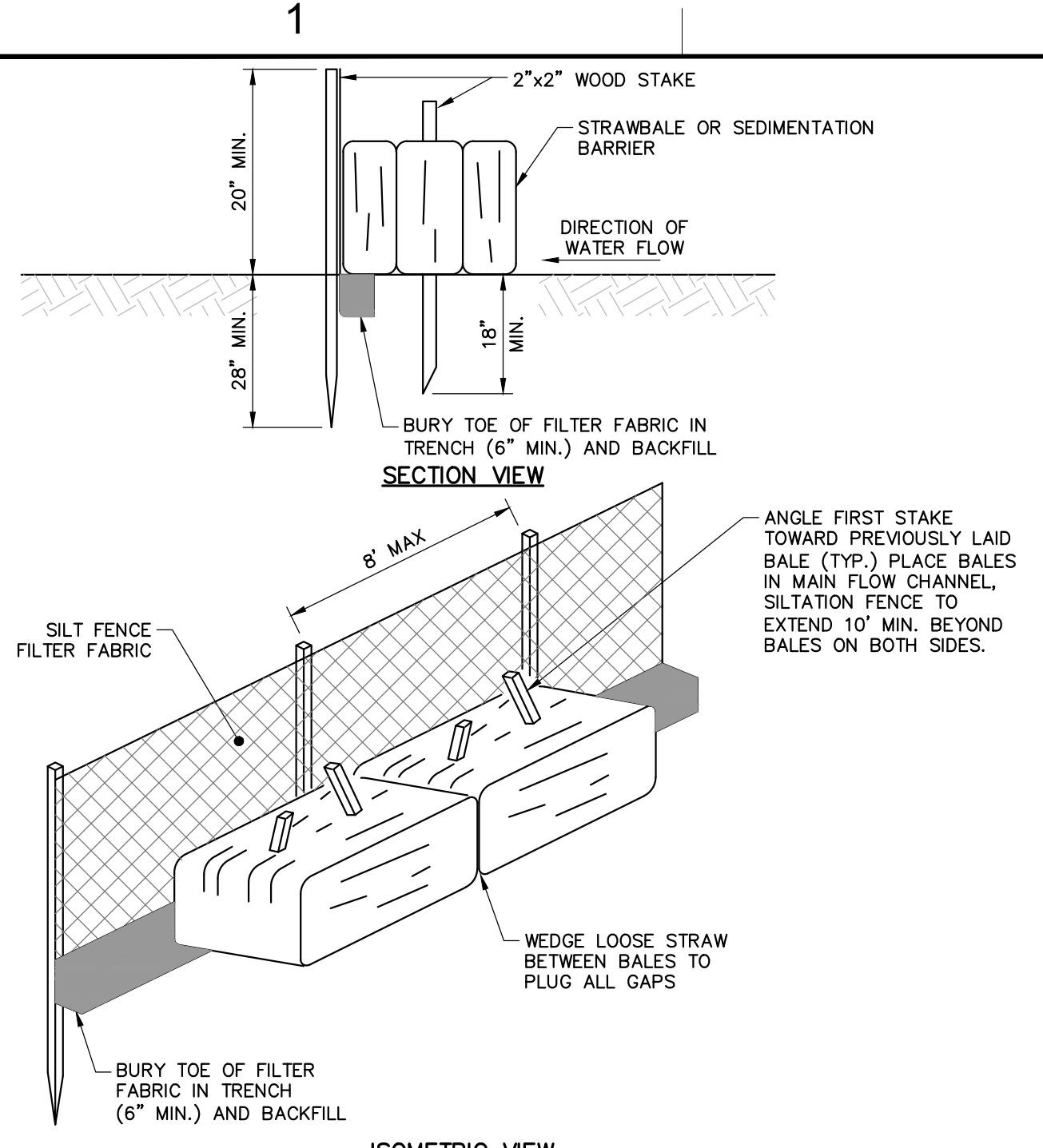
5 & 21 TOELES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

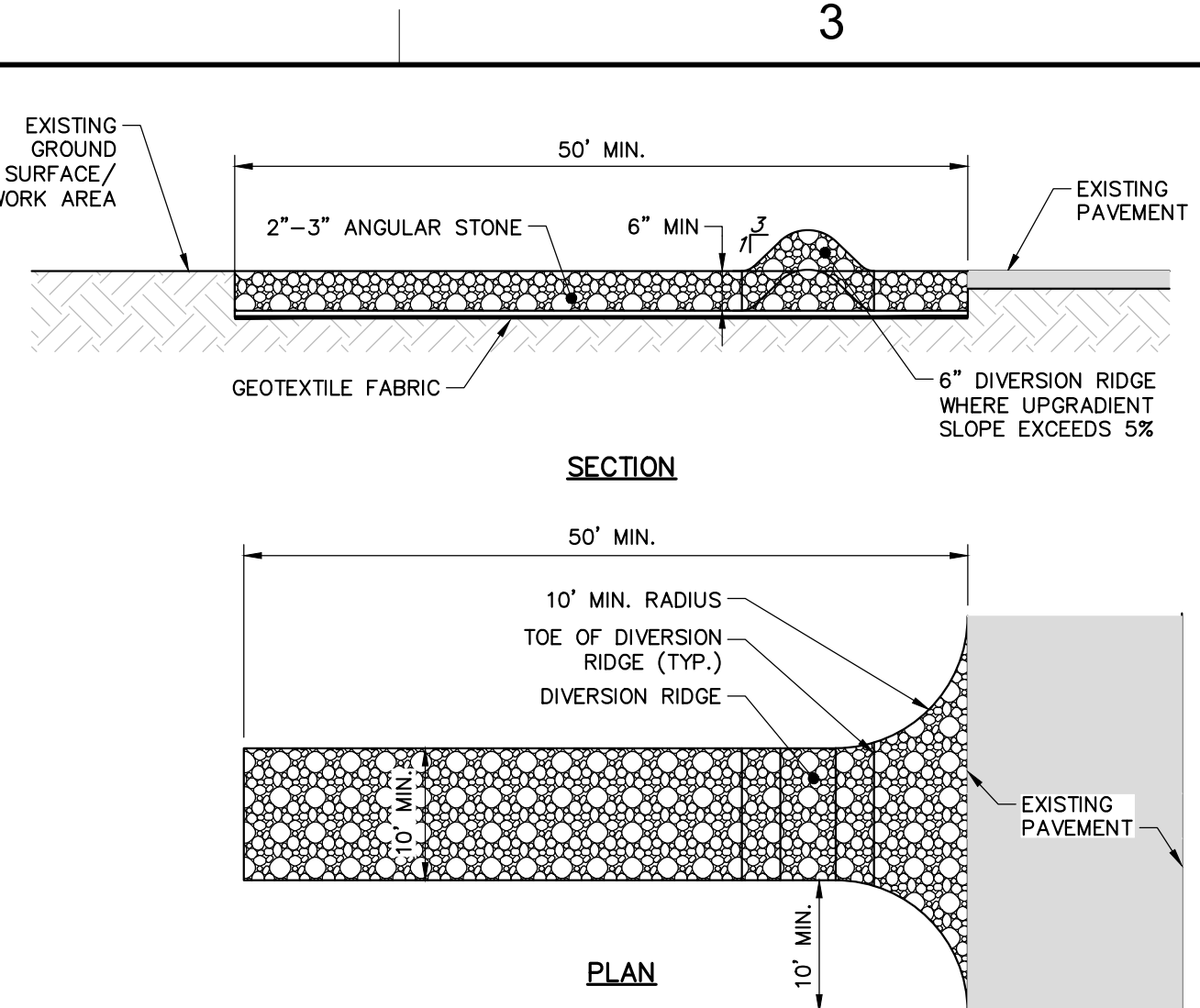
JOB NO: 023296.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 11 OF 13

C-007

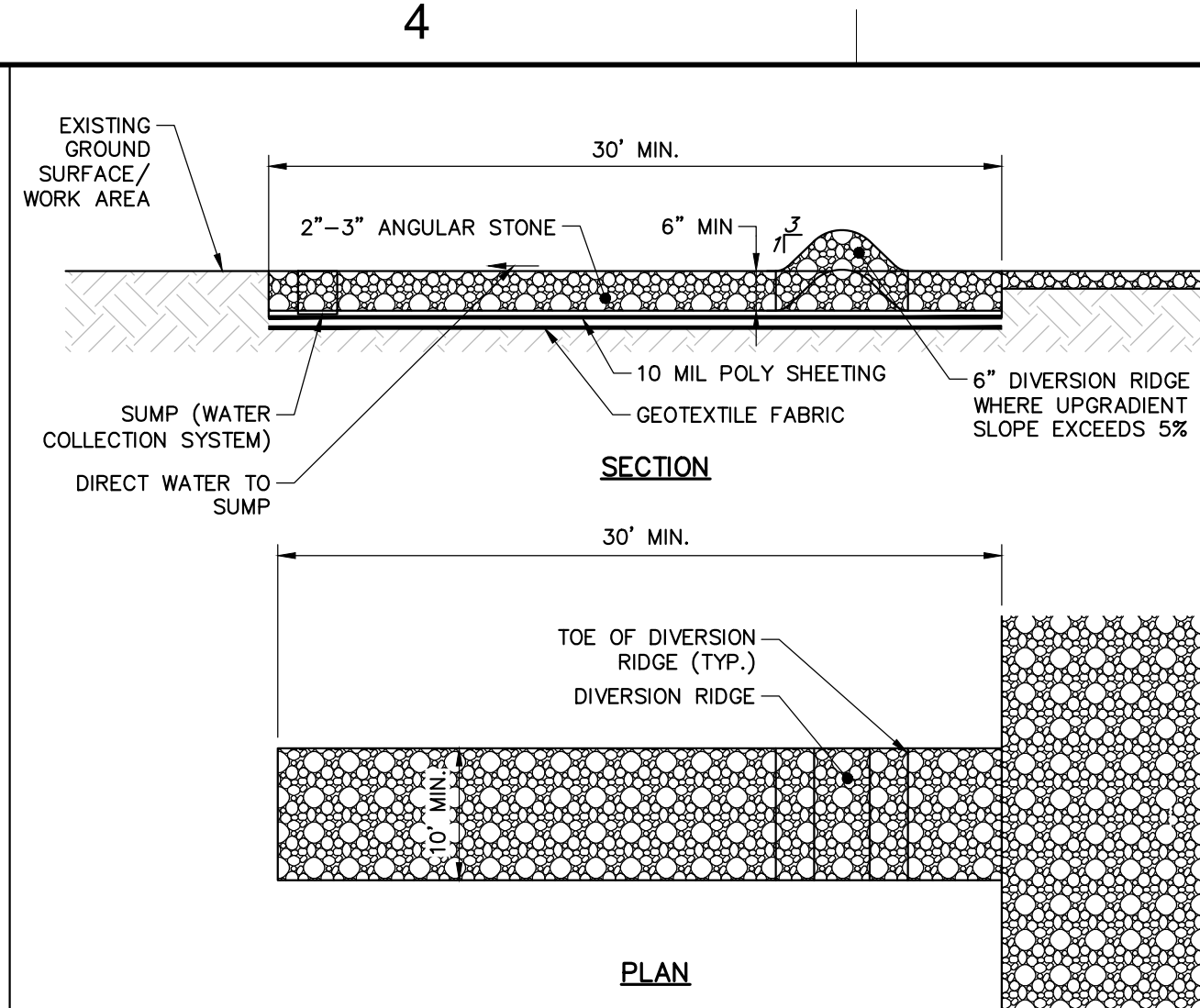
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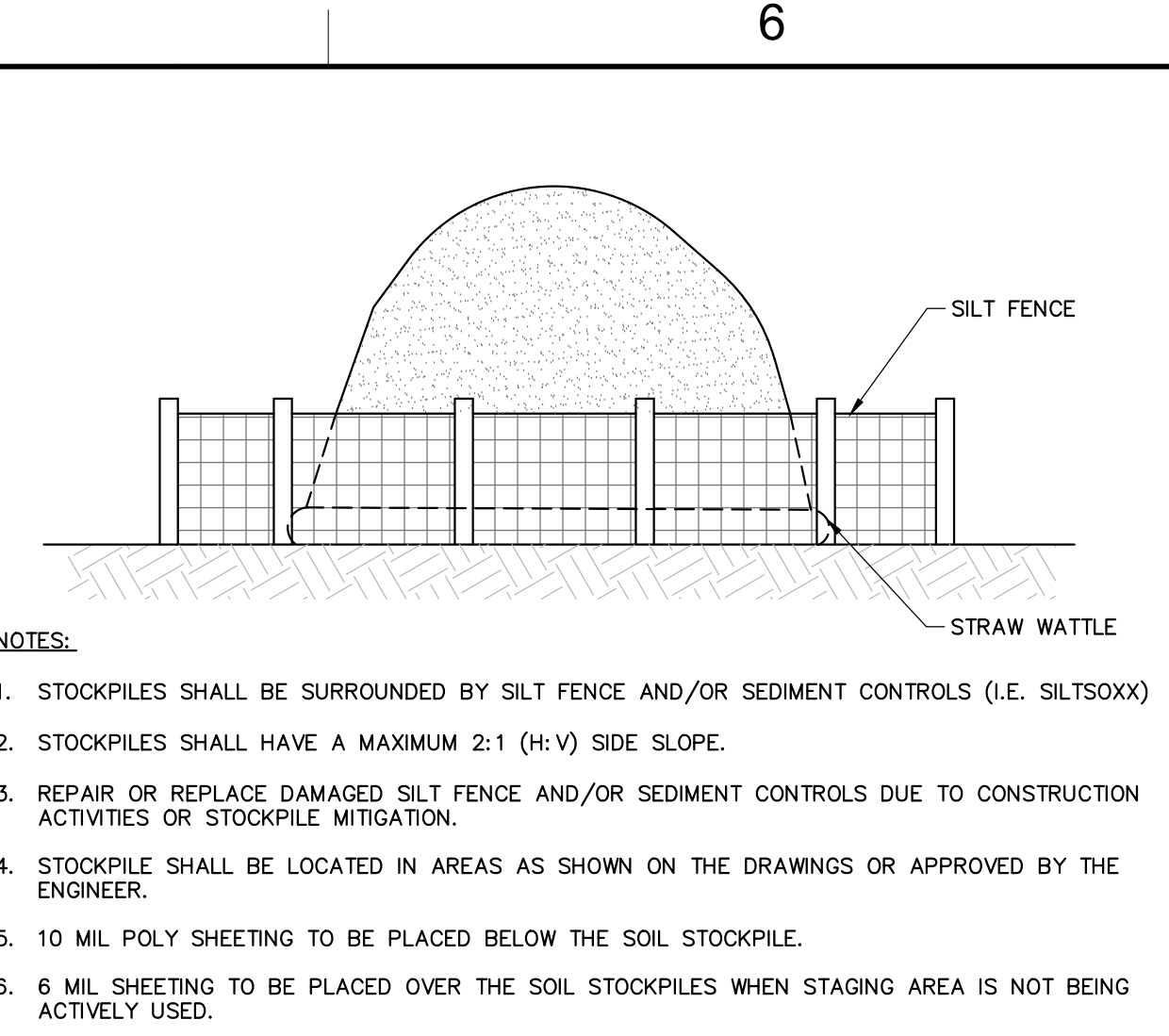
SILT FENCE WITH STRAWBALE BARRIER
NOT TO SCALE



ANTI-TRACKING PAD AND CONSTRUCTION ENTRANCE
NOT TO SCALE

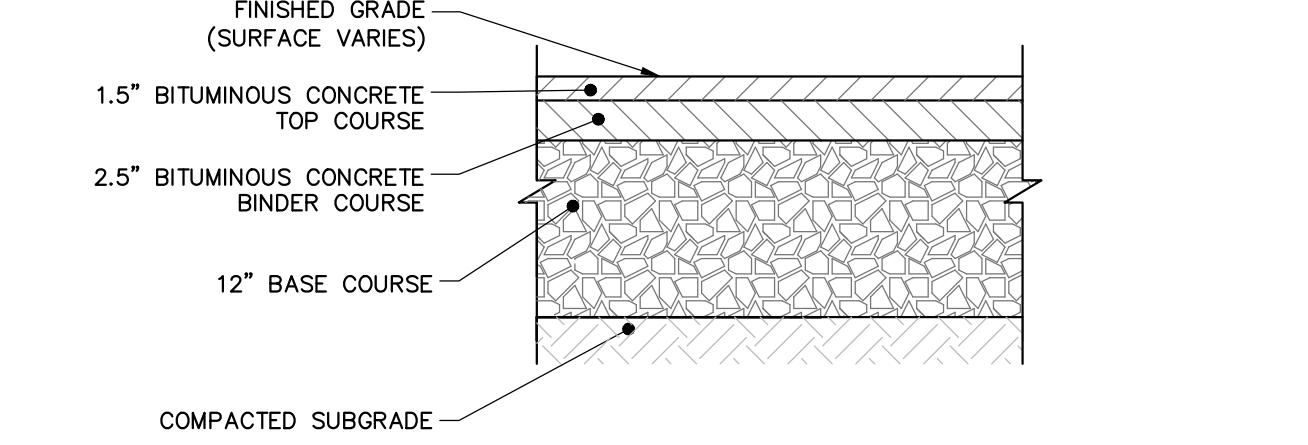


TEMPORARY TRUCK LOADING, TIRE AND TRACK WASHDOWN PAD
NOT TO SCALE

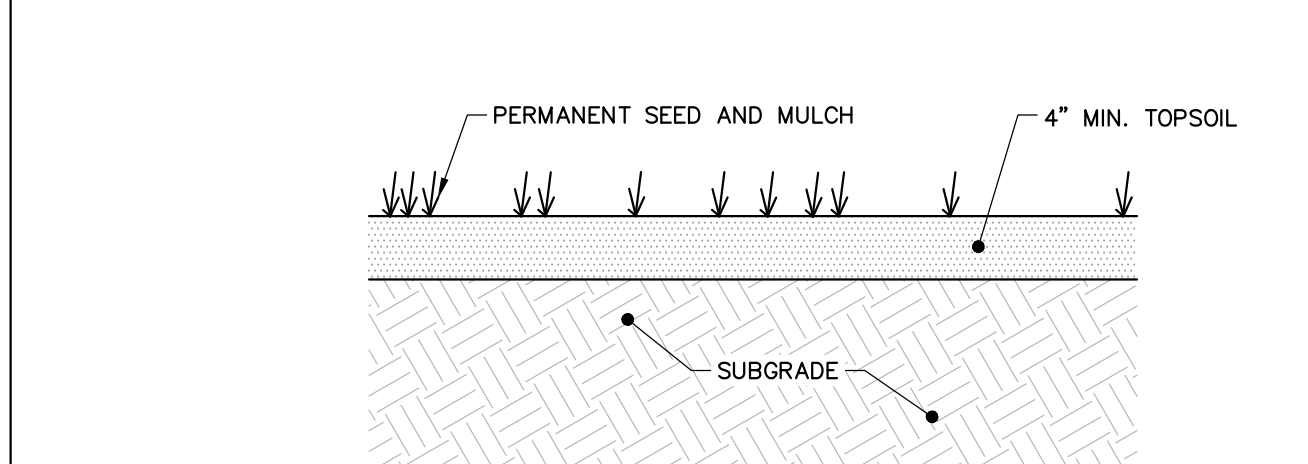


TEMPORARY SOIL STAGING AREA
NOT TO SCALE

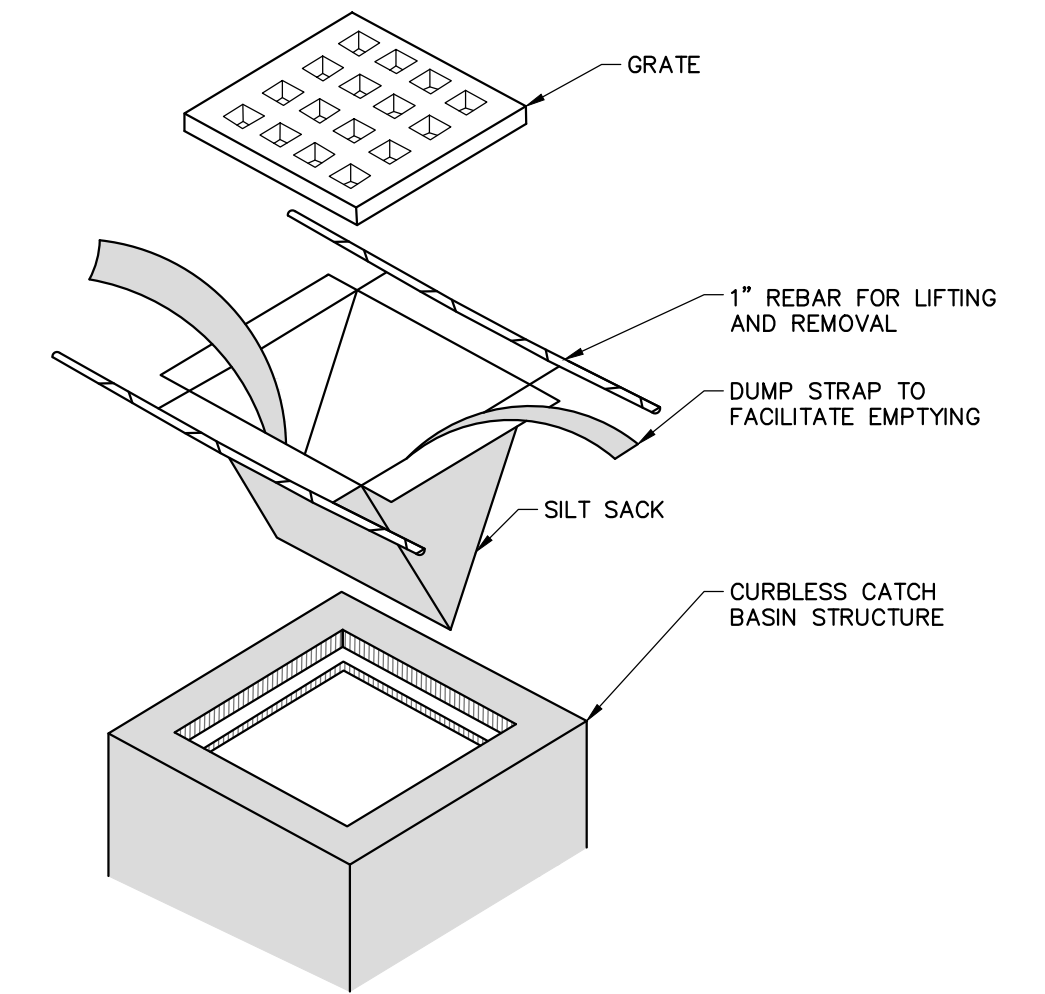
- NOTES:**
1. INSTALL FABRIC ON UPHILL SIDE OF SUPPORT POSTS.
 2. SILT FENCE WILL NOT BE USED IN DRAINAGE WAYS.
 3. CONTRACTOR TO REMOVE SILT AS NECESSARY TO MAINTAIN FABRIC EFFECTIVENESS.
 4. MAINTENANCE: INSPECT FOR TEARS IN THE FABRIC OR DAMAGE TO SUPPORTS. REPAIR AS NECESSARY. REMOVE ACCUMULATED SEDIMENT WHEN IT REACHES A DEPTH OF SIX-INCHES OR MORE.
 5. REMOVAL: WHEN UPSLOPE AREAS ARE STABILIZED, THE STRUCTURE AND ANY ACCUMULATED SEDIMENT WILL BE REMOVED.



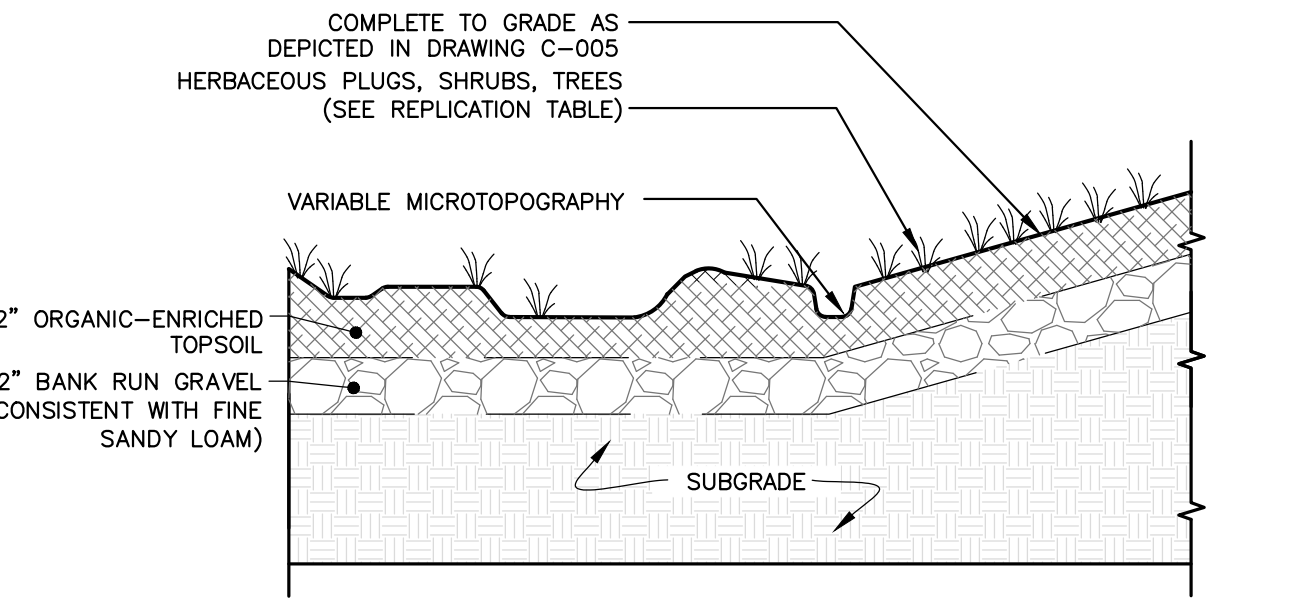
BITUMINOUS CONCRETE PAVEMENT SECTION
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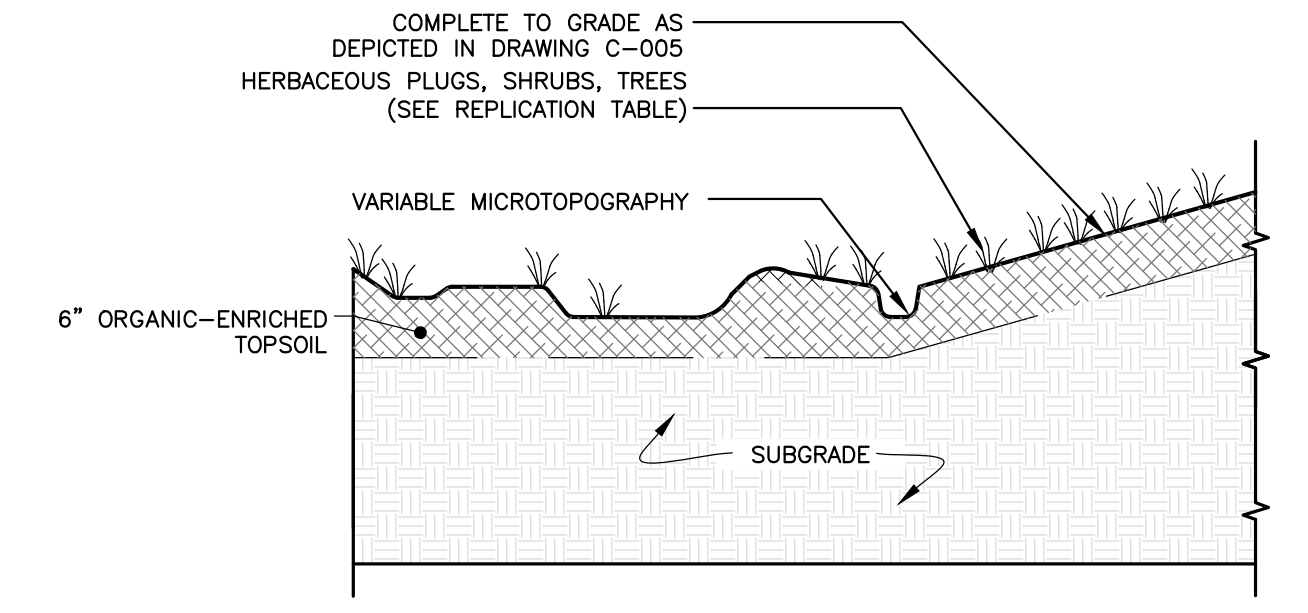
UPLAND RESTORATION/BACKFILL DETAIL
NOT TO SCALE



CATCH BASIN/DRAIN INLET PROTECTION SILT SACK DETAIL
NOT TO SCALE

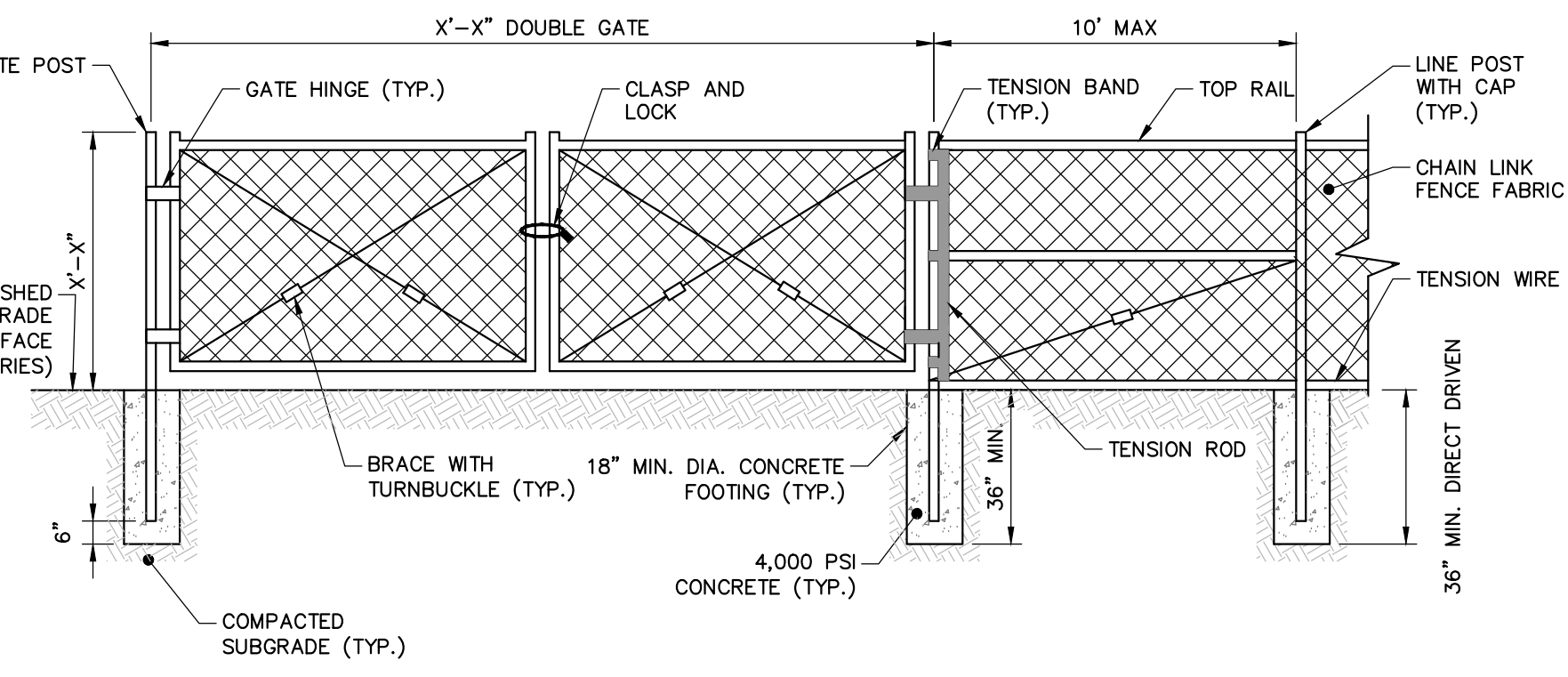


2' EXCAVATION AREA WETLAND RESTORATION DETAIL
NOT TO SCALE

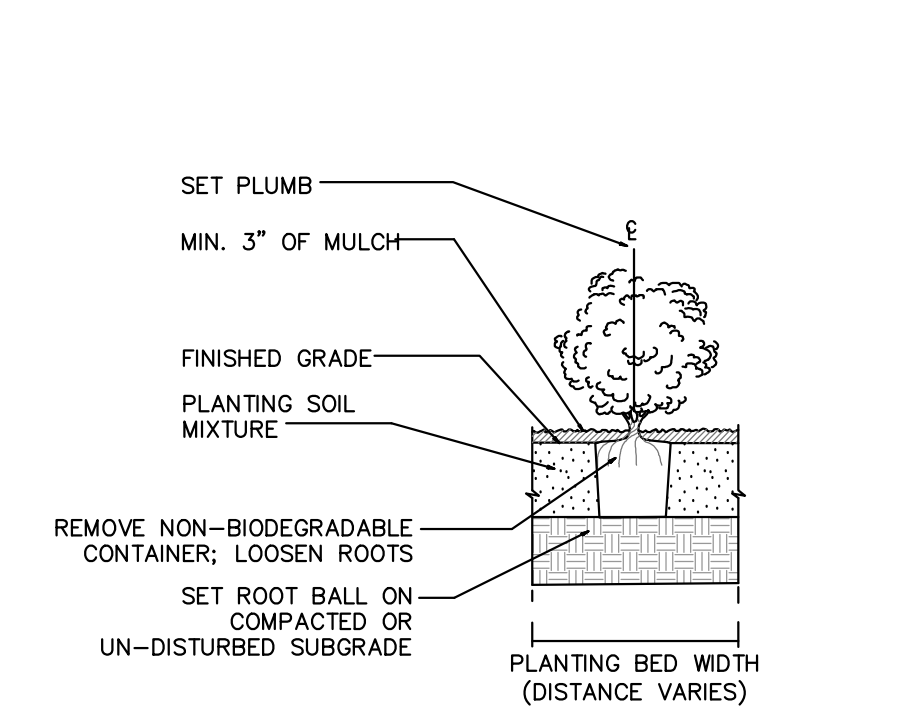


6" EXCAVATION AREA WETLAND RESTORATION DETAIL
NOT TO SCALE

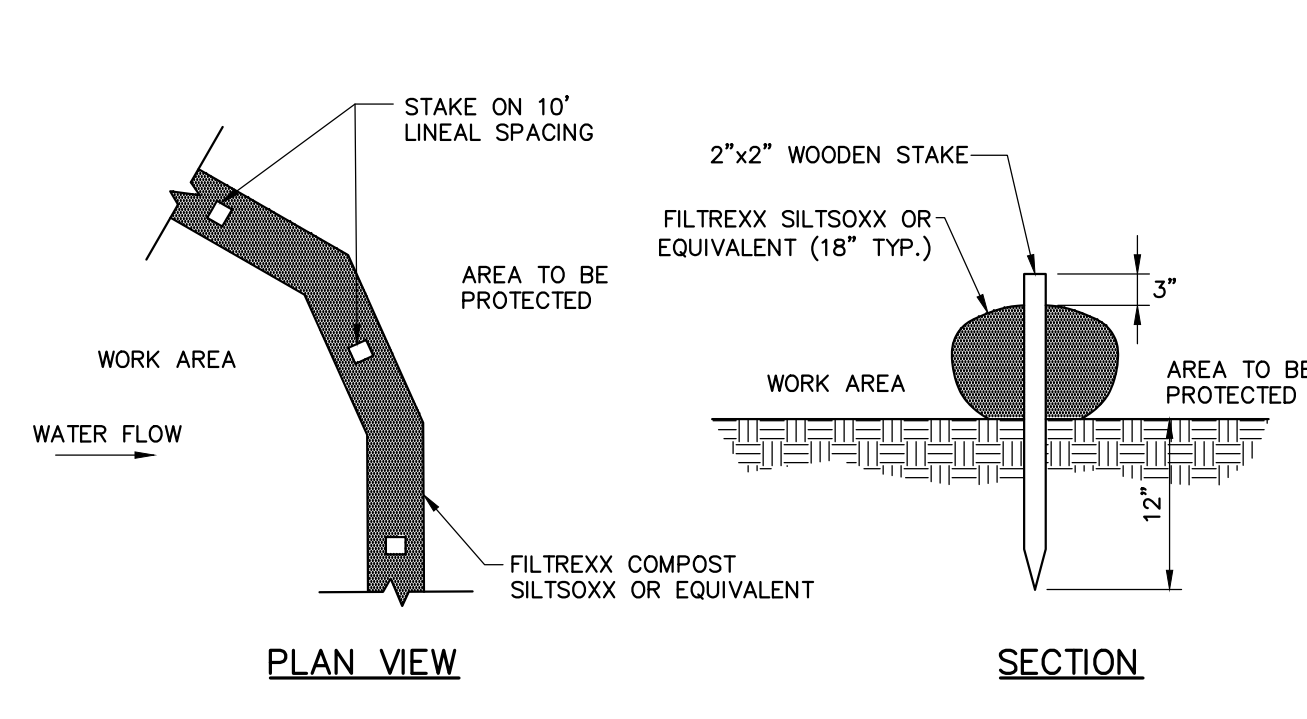
- NOTES:**
1. AVOID COMPACTION, UNLESS OTHERWISE NOTED ON PLANS.
 2. TOPSOIL SHALL BE FERTILE, FRIABLE SOIL, TYPICAL OF PRODUCT SOILS IN THE SURROUNDING AREA. REFER TO SPECIFICATIONS FOR ORGANIC MATTER CONTENT.
 3. TOPSOIL SHALL NOT BE DISTRIBUTED OVER PARTLY OR FULLY FROZEN, MUDDY, SNOWY, ICY OR EXCESSIVELY WET SURFACES.
 4. SOD AND SEED MIXTURE(S) SHALL BE APPROPRIATE FOR GROWING SEASON, CLIMATE AND SOIL CONDITIONS, AND SURFACE USAGE. REFER TO STATE GUIDELINES.
 5. SEED SHALL BE APPLIED AT RATES RECOMMENDED BY STATE GUIDELINES.
 6. APPLY MULCH OVER SEEDED AREAS IN ACCORDANCE WITH STATE GUIDELINES.
 7. INSTALL AND/OR REPAIR EROSION AND SEDIMENT CONTROL MEASURES BEFORE LAYING TOPSOIL. MAINTAIN EROSION CONTROL MEASURES DURING TOPSOILING.
 8. MAXIMUM SLOPE TOPSOIL CAN BE USED IS 2:1.



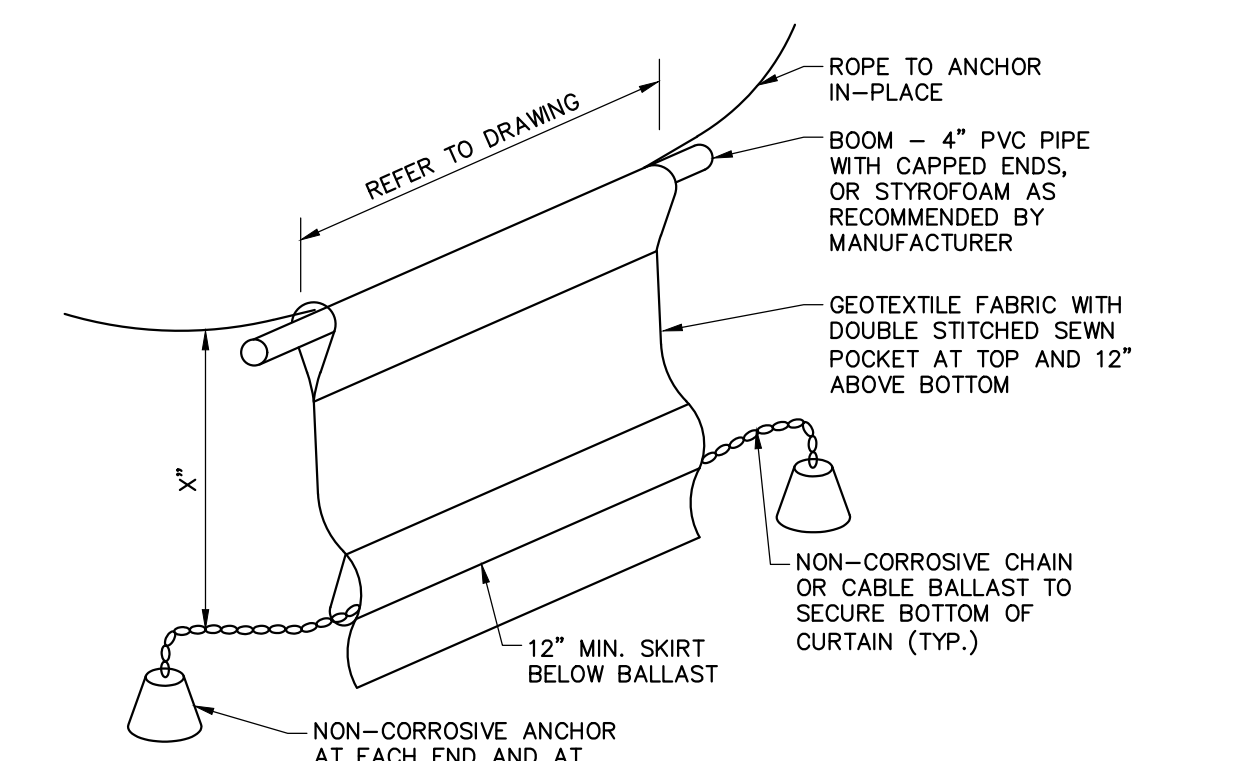
CHAIN LINK FENCE AND GATE
NOT TO SCALE



CONTAINER SHRUB INSTALLATION
NOT TO SCALE



SEDIMENTATION BARRIER
N.T.S.

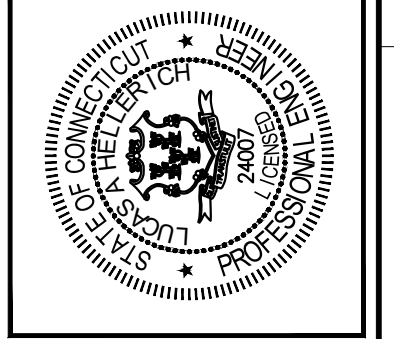


SILT CURTAIN
NOT TO SCALE

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REV	DESCRIPTION	DATE	DESIGNED BY	CHECKED BY

SITE DETAILS 1

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

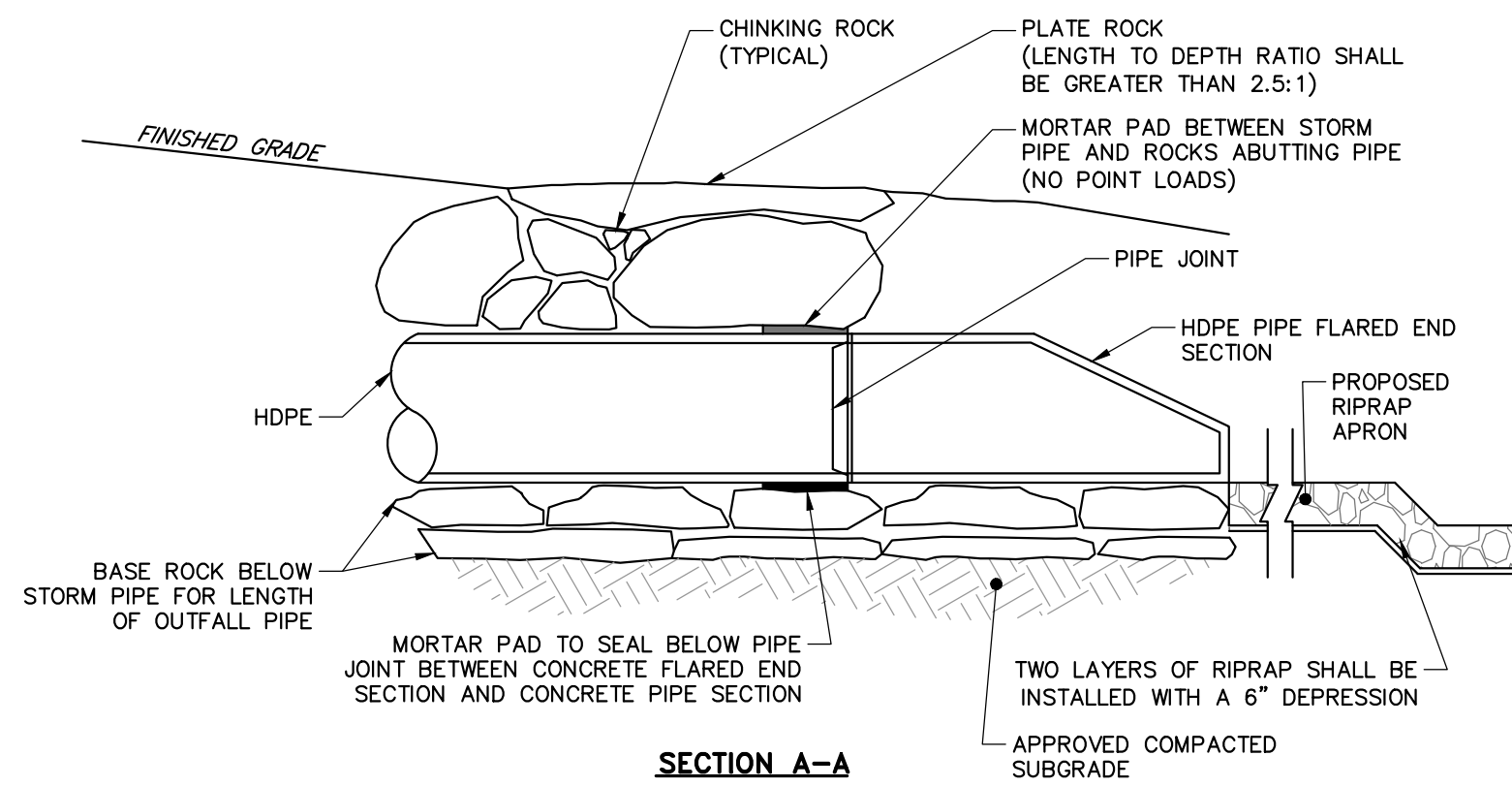
JOB NO:	0232596.00
DATE:	DECEMBER, 2020
SCALE:	AS NOTED
SHEET:	12 OF 13

C-201

NOT FOR CONSTRUCTION

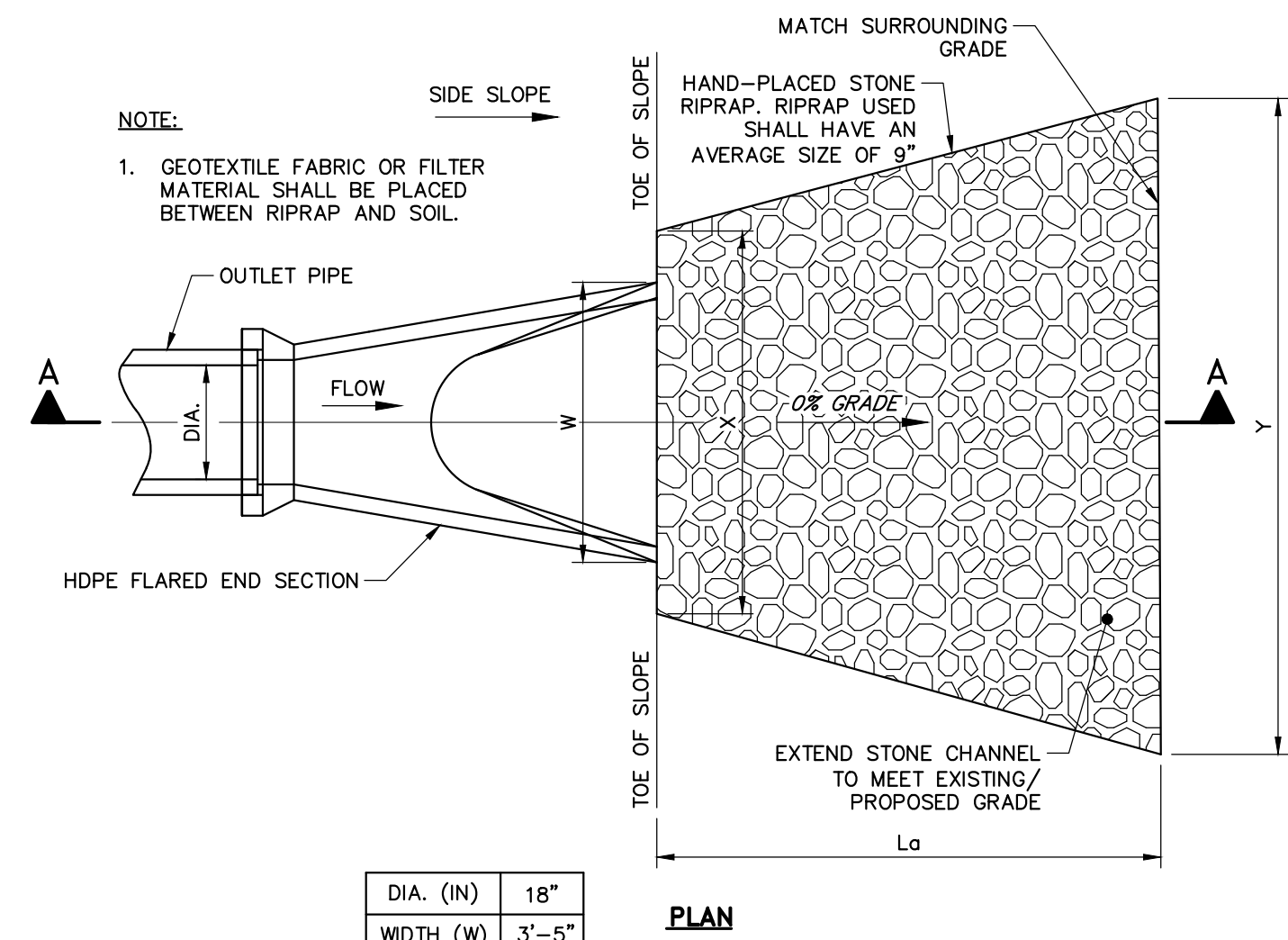
W:\woodardcurran\external\Projects\0232596\00-C-201.dwg, Dec 03, 2020, 8:23pm PFL\MORE

A



SECTION A-A

B



DIA. (IN)	18"
WIDTH (W)	3'-5"

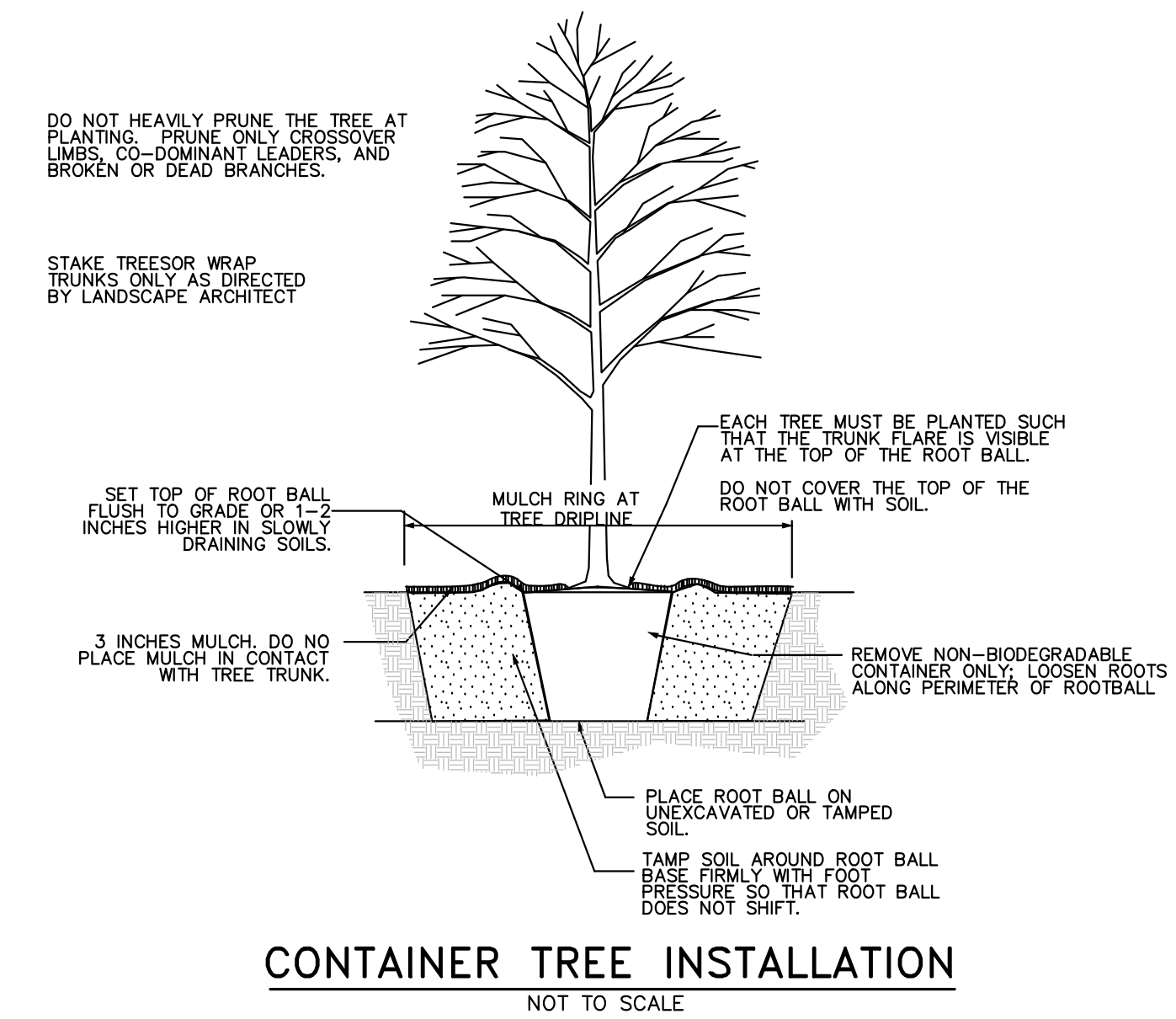
RIPRAP APRON TYPE	PIPE DIA. (IN)	La (MIN.)	La (MAX.)	X	Y
NCSA R-5 (9-INCH AVG. DIA.)	18"	10'	20'	6'	16'

NOTES:

- IT IS ASSUMED THE TEMPORARY PIPING WILL BE SIZED THE SAME AS THE EXISTING STORMWATER PIPE (18-INCH DIAMETER) AND SHALL USE THE SAME NCSA R-5 SIZED RIPRAP (9-INCH AVERAGE DIAMETER). THE RIPRAP WILL BE RE-USED FOR THE PERMANENT OUTFALL LOCATION.
- MORTAR PADS NOT TO BE INSTALLED FOR THE TEMPORARY STORMWATER DIVERSION.

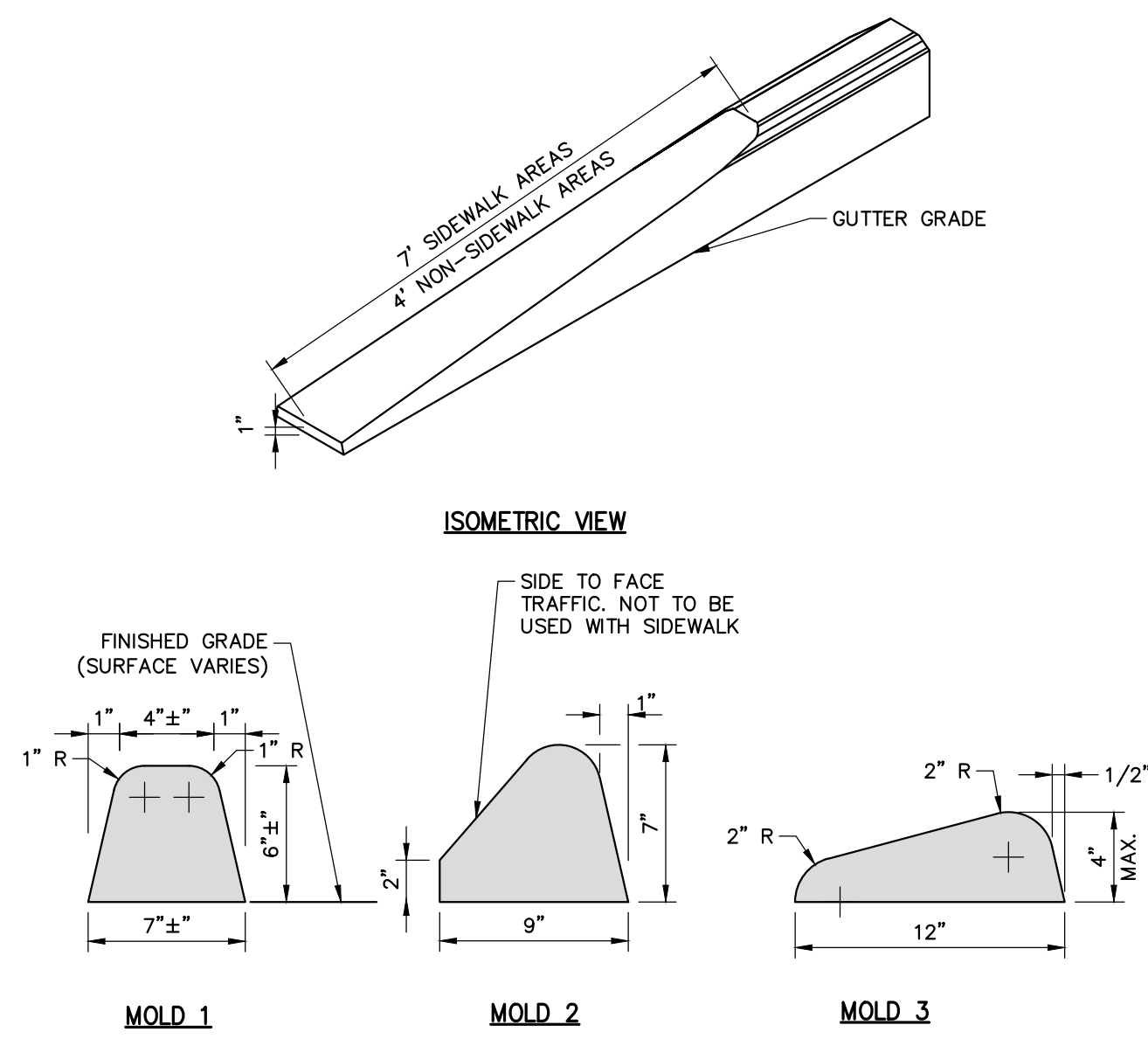
RIPRAP APRON OUTLET PROTECTION AT FLARED END (BOTH FOR TEMPORARY STORMWATER DIVERSION AND RESTORED STORMWATER OUTFALL)
NOT TO SCALE

D

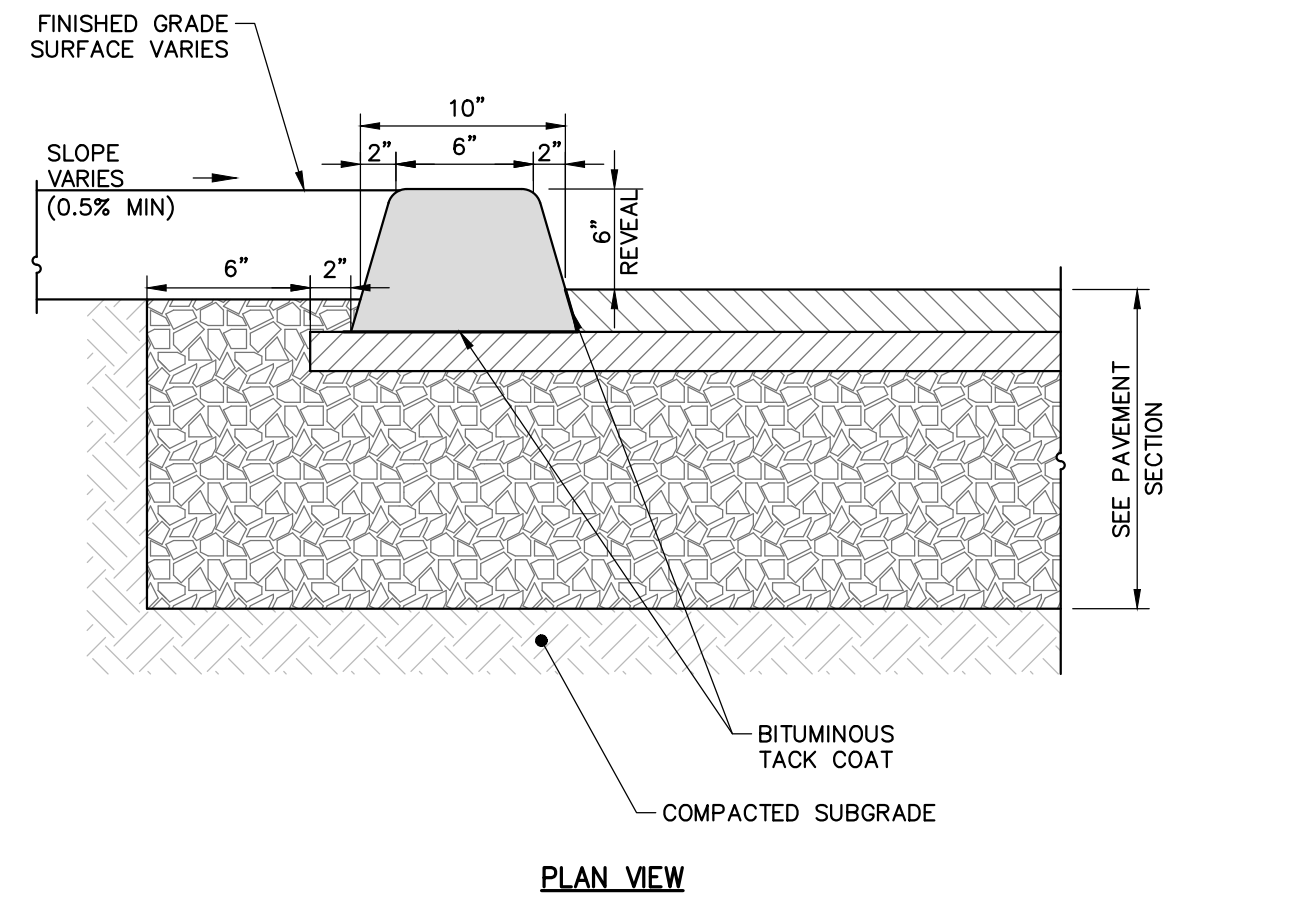


CONTAINER TREE INSTALLATION
NOT TO SCALE

3



ALTERNATIVE CURB MOLDS

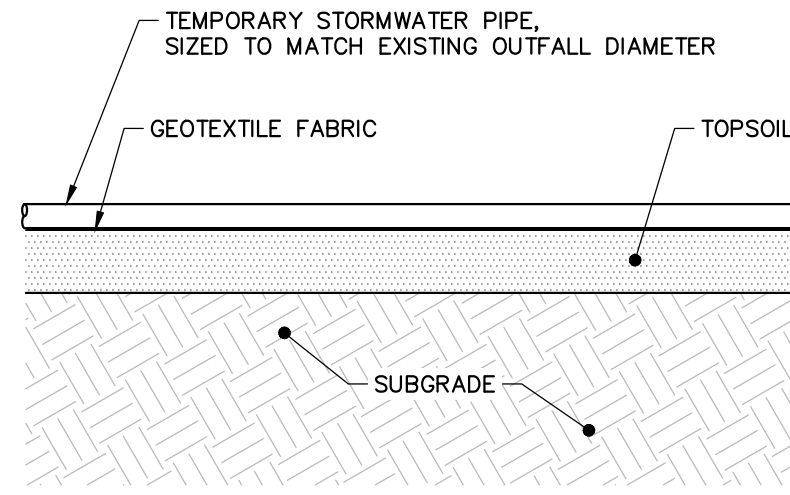


NOTES:

- CURB MOLD 2 WILL BE USED IN ALL SITUATIONS EXCEPT WHERE THE CURB FORMS THE EDGE OF THE SIDEWALK. MOLD 1 SHALL BE USED IN CONJUNCTION WITH SIDEWALKS OR WHERE THERE IS A POTENTIAL FOR SIDEWALKS.

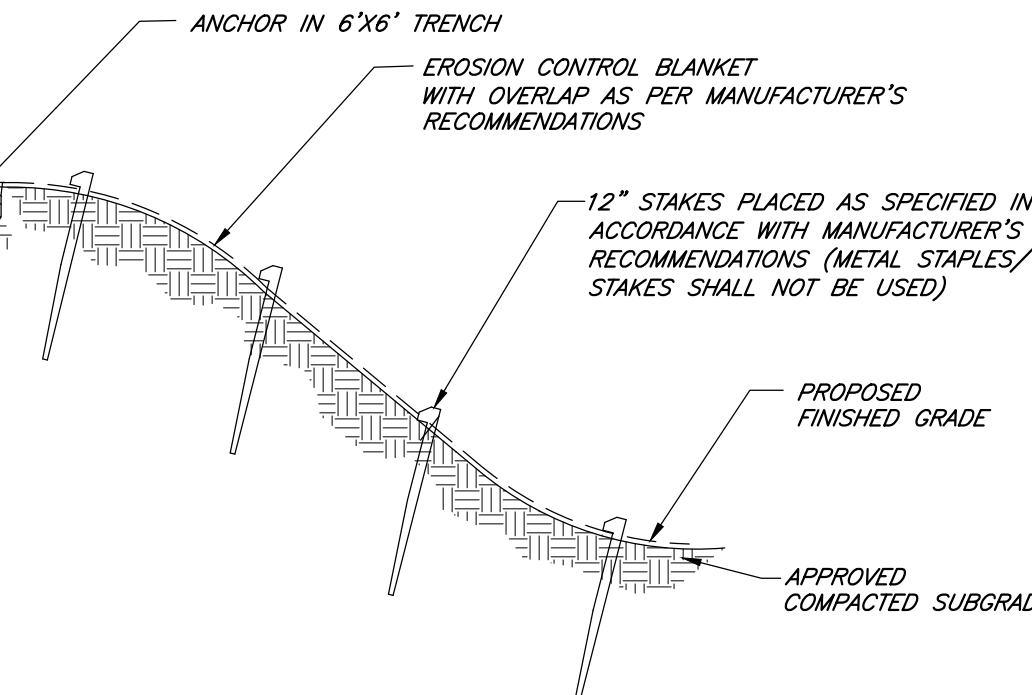
BITUMINOUS CURB
NOT TO SCALE

4



TEMPORARY STORMWATER BY-PASS PIPING DETAIL
NOT TO SCALE

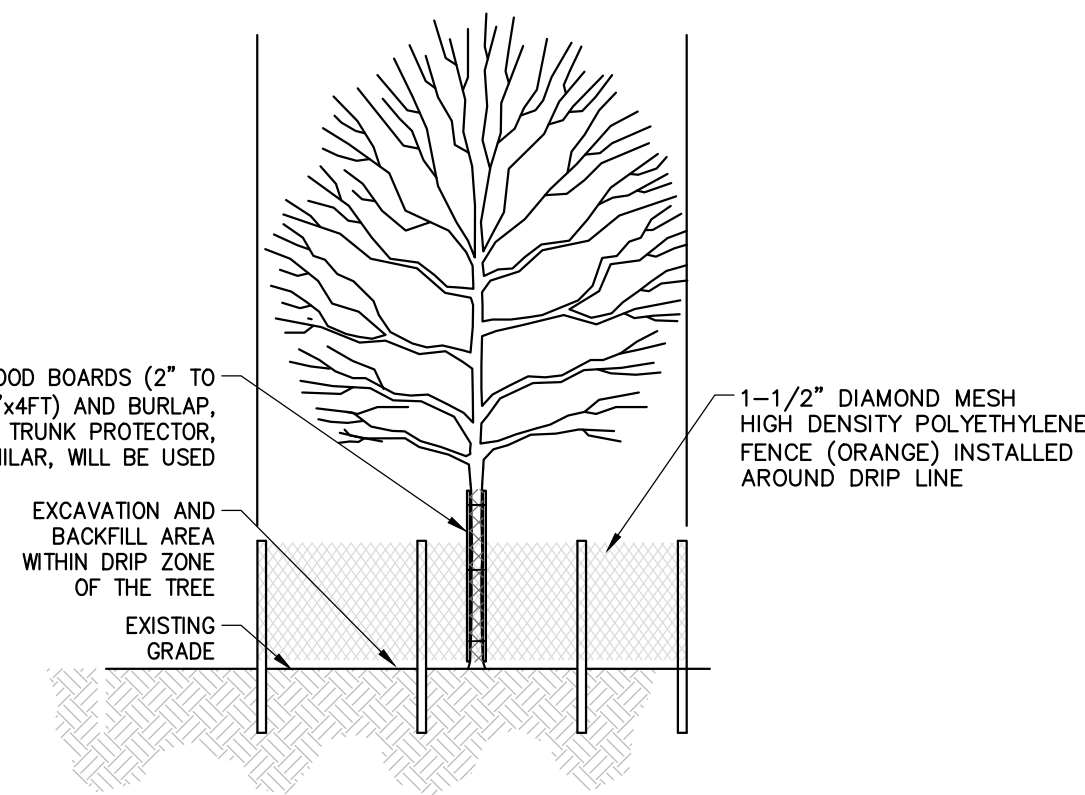
SLOPE STABILIZATION BLANKET
NOT TO SCALE



NOTES:

- ALL EROSION CONTROL BLANKETS SHALL BE INSTALLED WITH 12\"/>
- INSTALL EROSION CONTROL BLANKETS IN ALL AREAS WHERE SLOPE IS 2:1 OR GREATER, AFTER SEEDING. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL BLANKET UNTIL SEEDING IS FULLY ESTABLISHED.
- EROSION CONTROL BLANKET (ECB) SHALL BE NORTH AMERICAN GREEN DOUBLE STRAW NEW S150 OR APPROVED EQUAL.

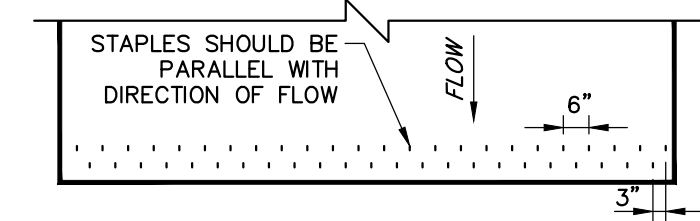
TREE PROTECTION
NOT TO SCALE



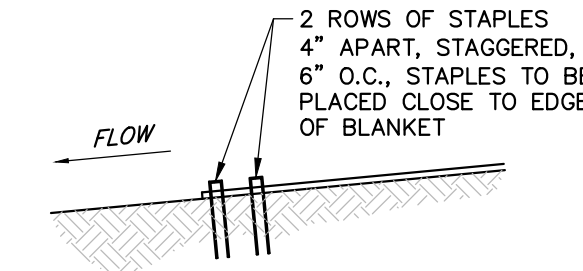
NOTES:

- NO MATERIAL OR EQUIPMENT SHALL BE STORED OR STOCKPILED WITHIN THE AREA SURROUNDED BY TREE PROTECTION FENCING.
- FENCE MUST REMAIN AND BE MAINTAINED THROUGHOUT ENTIRE CONSTRUCTION PHASES DURING WHICH CONSTRUCTION MAY AFFECT TREES.

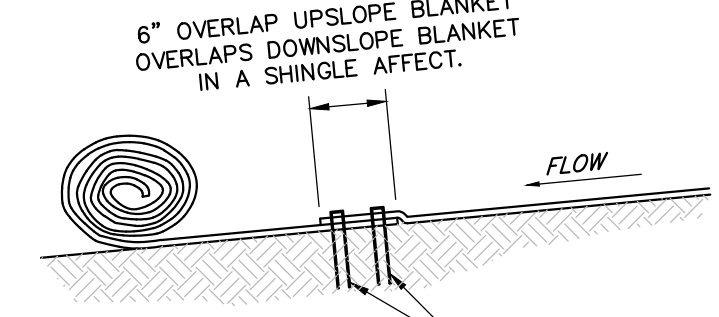
6



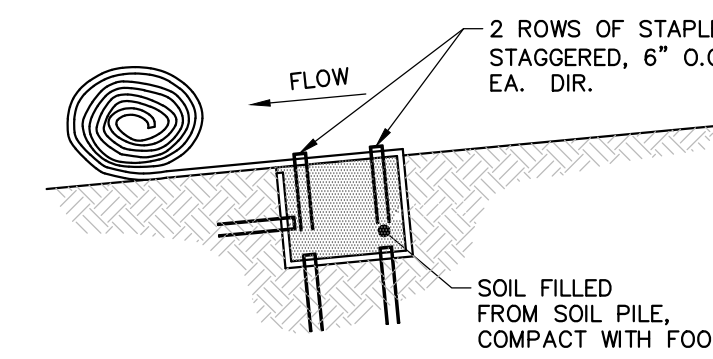
DETAIL A - PLAN VIEW TERMINATION NOT TO SCALE



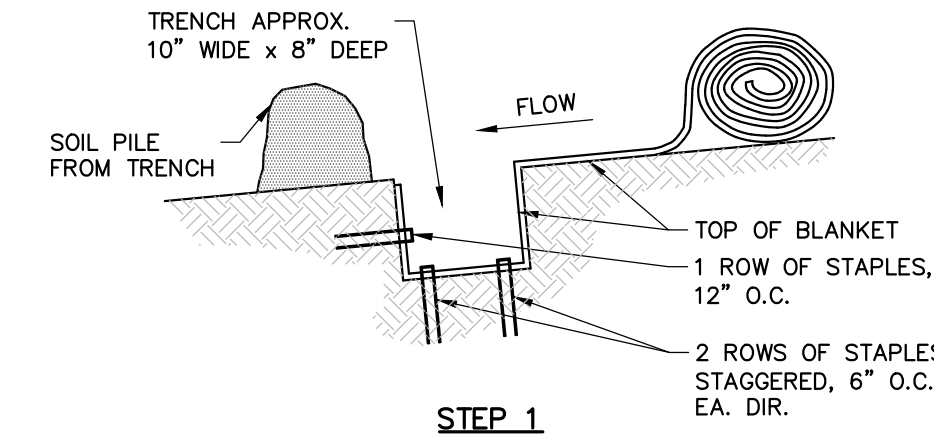
DETAIL B - SECTION VIEW TERMINATION NOT TO SCALE



DETAIL C - BLANKET END OF ROLL OVERLAP NOT TO SCALE

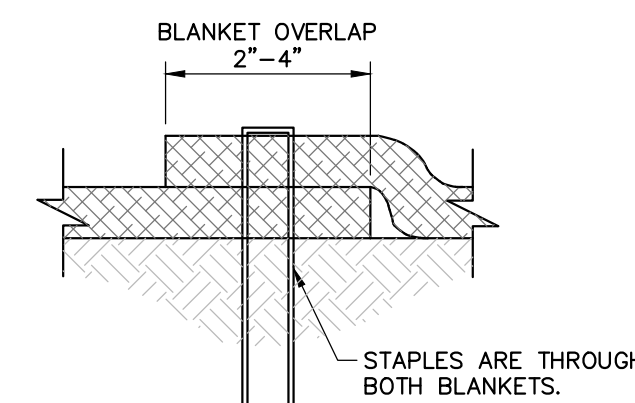


STEP 2



STEP 1

DETAIL D - TRENCHING METHOD NOT TO SCALE



DETAIL E - SIDE SEAM OVERLAP NOT TO SCALE

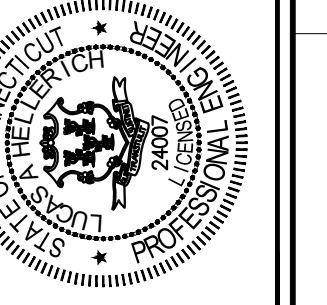
EROSION CONTROL BLANKET DETAILS
NOT TO SCALE

NOT FOR CONSTRUCTION

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REV	DESCRIPTION	DATE	DESIGNED BY	CHECKED BY

SITE DETAILS 2

5 & 21 TOELLES ROAD
WALLINGFORD CT

SOIL REMEDIATION PROJECT

JOB NO: 0232596.00
DATE: DECEMBER, 2020
SCALE: AS NOTED
SHEET: 13 OF 13

C-202