# TOWN OF SCITUATE, MASSACHUSETTS 453 CHIEF JUSTICE CUSHING HIGHWAY STEARNS MEADOW DRINKING WATER TREATMENT PLANT

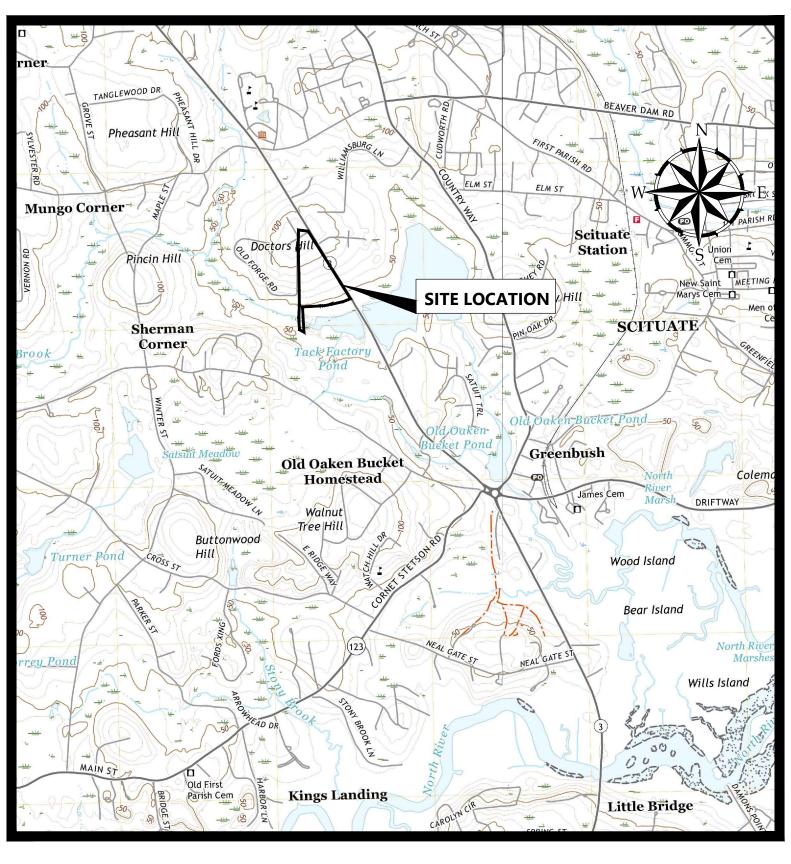




# SITE PLAN APPROVAL AUGUST 10, 2023

SHEET INDEX				
Sheet Title	Sheet Description			
G-000	COVER SHEET			
G-001	<b>GENERAL NOTES, ABBREVIATIONS &amp; LEGENDS</b>			
G-002	KEY PLAN			
C-201	EROSION & SEDIMENT CONTROL PLAN			
C-202	EROSION & SEDIMENT CONTROL PLAN			
C-203	EROSION & SEDIMENT CONTROL PLAN			
C-300	OVERALL SITE LAYOUT PLAN			
C-301	SITE LAYOUT PLAN			
C-302	SITE LAYOUT PLAN			
C-400	OVERALL GRADING & DRAINAGE PLAN (WITH PIPING)			
C-401	GRADING & DRAINAGE PLAN			
C-402	GRADING & DRAINAGE PLAN			
C-403	GRADING & DRAINAGE PLAN			
C-500	OVERALL UTILITIES PLAN			
C-501	UTILITIES PLAN			
C-502	UTILITIES PLAN			
C-900	CIVIL DETAILS 1			
C-901	CIVIL DETAILS 2			
C-902	CIVIL DETAILS 3			
C-903	CIVIL DETAILS 4			
C-904	CIVIL DETAILS 5			

	SUPPLEMENTAL PLANS				
SHEET TITLE SHEET DESCRIPTION					
	EXISTING CONDITIONS PLAN BY FELDMAN LAND SURVEYORS				
APPROVAL NOT REQUIRED PLAN BY FELDMAN LAND SURVEYOR					
EL-2-101	101 ELECTRICAL LIGHTING PLAN				
L-101	LANDSCAPE PLANTING PLAN				
L-901	PLANTING DETAILS				
V-101	VEHICLE TURNING PLAN (WB-50)				
V-102	/-102 VEHICLE TURNING PLAN (FIRE TRUCK)				



SOURCE: USGS TOPO QUADRANGLE NOT TO SCALE

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# GENERAL NOTES

SURFACE EXISTING CONDITIONS DEPICTED HEREIN, ARE BASED ON A SURVEY PERFORMED BY FELDMAN LAND SURVEYORS, 152 HAMPDEN STREET, BOSTON, MA 02119, ENTITLED "EXISTING CONDITIONS PLAN, 443-461 CHIEF JUSTICE CUSHING HIGHWAY, SCITUATE, MA", DATED 3/14/2022.

# 2. BENCH MARK USED: ELEVATIONS WERE OBTAINED BY GPS OBSERVATIONS ON DECEMBER 8, 2021. TEMPORARY BENCH MARKS SET:

TBM-JC-1: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT ON NORTH OF DOCTORS HILL ROAD. 1.8' ABOVE GRADE. ELEVATION = 106.87

- TBM-JC-2: X-CUT ON LEFT FRONT BOLT OVER OUTLET OF HYDRANT IN FRONT OF 439 CUSHING HIGHWAY. THE HORIZONTAL DATUM DEPICTED ON THE MAPS HEREON IS BASED ON THE MASSACHUSETTS STATE PLANE COORDINATE SYSTEM, MAINLAND ZONE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983. THE VERTICAL
- DATUM IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). 4. WETLAND DELINEATION WAS PREPARED BY LEC ENVIRONMENTAL CONSULTANTS, INC. IN 2022 AND FIELD SURVEYED BY FELDMAN LAND SURVEYORS.
- COORDINATE CONSTRUCTION ACTIVITY WITH UTILITY COMPANIES, EMERGENCY SERVICES AND THE TOWN. CONTRACTOR SHALL NOTIFY ALL UTILITIES PRIOR TO COMMENCING WORK, ALLOWING SUFFICIENT TIME TO LOCATE AND MARK THE LOCATION OF BURIED UTILITIES. CONTRACTOR SHALL CONTACT "DIG SAFE", PRIOR TO EXCAVATION. CALL, TOLL FREE, THE DIG SAFE CALL CENTER AT 1-888-344-7233 SEVENTY-TWO HOURS PRIOR TO EXCAVATION.
- 6. ALL DISTURBANCES WITHIN PUBLIC ROADWAYS SHALL BE RESTORED TO SPECIFIED MASSDOT REQUIREMENTS, SEE MASSDOT CONSTRUCTION ACCESS PERMIT. RESTORE ALL OTHER NON-LAWN AREAS DISTURBED BY CONTRACTOR'S OPERATIONS TO ORIGINAL FINISH (GRAVEL, PAVEMENT, ETC.) UNLESS NOTED OTHERWISE ON THE PLANS. RESTORATION OF PAVED SURFACES, GRAVEL SURFACES, AND DRIVEWAYS, DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
- PROPERLY PROTECT AND DO NOT DISTURB PROPERTY IRONS AND MONUMENTS. IF DISTURBED, THE PROPERTY MONUMENT SHALL BE RESET AT THE CONTRACTOR'S EXPENSE BY A LICENSED LAND SURVEYOR ACCEPTABLE TO THE TOWN.
- 8. ALL TREES NOT NOTED TO BE REMOVED SHALL BE PROTECTED BY CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY OWNER IF ANY TREES NOT IDENTIFIED FOR REMOVAL ARE FOUND TO BE IN CONFLICT WITH THE WORK.
- 9. THE CONTRACTOR SHALL SUBMIT A PROPOSED TRAFFIC CONTROL PLAN TO THE TOWN ENGINEER AND MASSDOT BEFORE BEGINNING CONSTRUCTION. THE TRAFFIC CONTROL PLAN SHALL PROVIDE FOR SAFE MOVEMENT OF BOTH VEHICLES AND PEDESTRIANS DURING CONSTRUCTION ACTIVITIES. THE PROPOSED TRAFFIC CONTROL PLAN SHALL BE SUBJECT TO APPROVAL BY THE TOWN ENGINEER AND MASSDOT, WHO MAY ATTACH SPECIAL CONDITIONS TO, OR REQUIRE MODIFICATIONS OF, THE TRAFFIC CONTROL PLAN.
- 10. DO NOT PARK, ENTER, IMPEDE ACCESS TO, OR STORE EQUIPMENT BEYOND LIMIT OF WORK, UNLESS PERMISSION HAS BEEN GRANTED IN WRITING BY THE ENGINEER.
- 11. COORDINATE DISRUPTION OF PRIVATE UTILITY SERVICES WITH LANDOWNERS AT LEAST TWO DAYS (48 HOURS) PRIOR TO DISRUPTION. ALL UTILITY COORDINATION IS RESPONSIBILITY OF CONTRACTOR.
- 12. RESTRICT ACCESS TO SITE THROUGH THE USE OF APPROPRIATE SIGNAGE, BARRIERS, FENCES, ETC. SITE SHALL BE LEFT WITH APPROPRIATE SAFETY MEASURES IN PLACE DURING NON-WORKING HOURS. INSTALL ORANGE CONSTRUCTION FENCING AROUND ALL WORK ZONES AT THE END OF EVERY DAY. SITE SAFETY IS THE RESPONSIBILITY OF CONTRACTOR, DURING BOTH WORKING AND NON-WORKING HOURS.
- 13. ALL DISTURBANCE TO THE SITE SHALL BE WITHIN THE DEFINED LIMIT OF WORK. IF A CONFLICT OR SITE CONDITION REQUIRES THAT THE LIMIT OF WORK BE CHANGED, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER.
- 14. STAGING AREAS, INCLUDING STOCKPILING OF MATERIALS, SHALL OCCUR FULLY WITHIN THE LIMITS OF WORK. AND BE LOCATED AS FAR AWAY FROM THE WETLAND RESOURCE AREAS AS POSSIBLE.
- 15. IMPACT WITHIN THE WETLAND BUFFER ZONES SHALL BE MINIMIZED. IF WORK SHALL RESULT IN ADDITIONAL IMPACT WITHIN THE BUFFER ZONE BEYOND WHAT IS SHOWN ON THE DRAWINGS, CONTRACTOR SHALL NOTIFY THE ENGINEER BEFORE DISTURBING THE AREA.
- 16. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING EROSION AND SEDIMENTATION CONTROL IN ACCORDANCE WITH THE LATEST STATE OF MASSACHUSETTS EROSION & SEDIMENT CONTROL GUIDELINES AND DESIGN DRAWINGS. RECOMMENDED EROSION CONTROL MEASURES ARE SHOWN ON THE PLANS. CONTRACTOR SHALL BE RESPONSIBLE FOR SEQUENCING CONSTRUCTION WITH APPROPRIATE EROSION CONTROL. IF ANY EARTHWORK IS TO BE COMPLETED PRIOR TO INSTALLATION OF SHEET PILE WALL, SEDIMENTATION BARRIER SHALL BE PLACED IN OR NEAR THE LOCATION OF THE SHEET PILE WALL UNTIL IT IS INSTALLED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL EROSION AND SEDIMENT CONTROL, INCLUDING STABILIZED CONSTRUCTION EXITS, WITHIN THE PROJECT AREA AS NECESSARY. ANY ACCUMULATION OF SEDIMENT IN STRUCTURES OR ON THE GROUND DUE TO THE CONSTRUCTION PROJECT SHALL BE REMOVED AND DISPOSED OF IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. ALL EROSION CONTROL MEASURES SHALL BE LEFT IN PLACE UNTIL THE RESTORATION IS COMPLETE AND UPON APPROVAL FOR REMOVAL BY THE SCITUATE CONSERVATION COMMISSION.
- 17. ALL DISTURBED LAWN AREAS WITHIN THE LIMIT OF WORK SHALL BE RESTORED WITH 6 INCHES OF LOAM AND SEED UNLESS OTHERWISE NOTED ON PLANS.
- 18. TREES AND VEGETATION LOCATED WITHIN THE LIMIT OF WORK, AND ON THE LANDWARD SIDE OF DELINEATED BORDERING VEGETATED WETLANDS OR BANK MAY BE REMOVED AS NECESSARY TO COMPLETE THE WORK UNLESS OTHERWISE NOTED.
- 19. ADDITIONAL SITE FEATURES (SIGNS, MAILBOXES, LIGHTS, WALLS, ETC.) SHALL BE REMOVED AS REQUIRED TO COMPLETE THE WORK. FOLLOWING COMPLETION OF WORK, SITE FEATURES SHALL BE RE-INSTALLED PER THE DIRECTION OF THE OWNER. ANY SITE FEATURED OUTSIDE OF LIMIT OF WORK SHALL BE PROTECTED, AND IF DISTURBED, SHALL BE REPLACED AT NO ADDITIONAL COST TO OWNER.
- 20. PRIOR TO THE COMMENCEMENT OF ANY ACTIVITIES ON THIS SITE THERE MUST BE A PRE-CONSTRUCTION MEETING WITH THE TOWN REPRESENTATIVE. THE TOWN REPRESENTATIVE SHALL BE NOTIFIED IN WRITING WHEN EROSION CONTROL AND LIMIT OF WORK FLAGGING HAS BEEN INSTALLED AND IS READY TO BE INSPECTED BY THE TOWN REPRESENTATIVE.
- 21. ALL DEBRIS, FILL, AND EXCAVATED MATERIALS SHALL BE STOCKPILED IN A LOCATION FAR ENOUGH AWAY FROM THE WETLAND RESOURCE AREA TO PREVENT SEDIMENT FROM ENTERING WETLAND RESOURCE AREA.
- 22. THE CONTRACTOR SHALL MANAGE AND LEGALLY DISPOSE OFF-SITE ALL EXCESS EXCAVATED MATERIALS. INCLUDING, BUT NOT LIMITED TO, SOIL, ROCK, BOULDERS, WATER, DEMOLITION WASTE, AND DEBRIS THAT CANNOT BE REUSED ON-SITE.
- 23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ALL LINES, GRADES AND OTHER SURVEY CONTROL TO COMPLETE THE WORK AS SHOWN ON THE DRAWINGS.
- 24. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE NOTED.
- 25. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS PRIOR TO START OF CONSTRUCTION. 26. CONTRACTOR SHALL MAINTAIN EROSION CONTROL AND STORMWATER POLLUTION PREVENTION SYSTEMS IN
- COMPLIANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS STORMWATER MANUAL EROSION AND SEDIMENT CONTROLS AND SITE SPECIFIC STORMWATER POLLUTION PREVENTION PLAN DURING CONSTRUCTION.
- 27. ALL PAVEMENT MARKINGS AND SIGNS TO CONFORM TO "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS", AND THE AMERICANS WITH DISABILITIES ACT REQUIREMENTS, LATEST EDITIONS.

28. SEE DETAILS FOR PAVEMENT MARKINGS, SIGNS AND SIGN POSTS.

# EROSION AND SEDIMENTATION CONTROL NOTES

THESE MEASURES ARE INTENDED TO PROVIDE GENERAL REQUIREMENTS FOR EROSION AND SEDIMENTATION CONTROL. A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER POLLUTION PREVENTION PLAN (SWPPP) WILL BE ISSUED PRIOR TO CONSTRUCTION AND MAY REQUIRE ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES. CONTRACTOR SHALL FOLLOW ALL MEASURES REQUIRED FOR THE PROJECT.

THE PURPOSE OF EROSION CONTROLS IS TO PREVENT SEDIMENT FROM MOVING ONTO, AROUND, OR OFF OF THE CONSTRUCTION SITE. PROPERLY INSTALLED AND MAINTAINED EROSION CONTROLS ARE THE PRIMARY DEFENSE AGAINST SEDIMENT POLLUTION. SEDIMENTATION CONTROLS ARE A SECOND LINE OF DEFENSE AGAINST MOVING SEDIMENT. THE PURPOSE IS TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE AND ENTERING ENVIRONMENTALLY SENSITIVE AREAS. RUNOFF CONTROLS ARE USED TO SLOW THE VELOCITY OF CONCENTRATED WATER FLOWS. BY INTERCEPTING AND DIVERTING STORMWATER RUNOFF TO A STABILIZED OUTLET OR TREATMENT BMP, EROSION AND SEDIMENTATION ARE REDUCED. THIS SECTION DESCRIBES THE SET OF MEASURES THAT WILL BE INSTALLED BEFORE AND DURING THE CONSTRUCTION PROJECT TO CONTROL POLLUTANTS IN STORMWATER DISCHARGES THAT WILL OCCUR AT THE SITE. SUCH MEASURES MAY INCLUDE: PERIMETER CONTROLS, STOCK PILE COVERING, STORM DRAIN INLET PROTECTION, CHECK DAMS, AND TEMPORARY SEEDING. PLEASE NOTE: THE OPERATOR SHOULD INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

AS FAR AS IS PRACTICABLE, EXISTING VEGETATION SHALL BE PROTECTED AND LEFT IN PLACE, IN ACCORDANCE WITH THE CLEARING LIMITS SHOWN ON THE APPROVED PLANS. PRIOR TO ANY LAND DISTURBANCE ACTIVITIES COMMENCING ON THE SITE, THE CONTRACTOR SHALL PHYSICALLY MARK LIMITS OF WORK (LOW) ON THE SITE AND ANY AREAS TO BE PROTECTED WITHIN THE SITE, SO THAT WORKER'S CAN CLEARLY IDENTIFY THE AREAS TO BE PROTECTED. THE APPENDED PROJECT DRAWINGS IDENTIFY THE LIMIT OF WORK ALONG WITH AREAS AND OBJECTS TO BE PROTECTED.

2. PHASE CONSTRUCTION ACTIVITY

PROPER SEQUENCING OF CONSTRUCTION ACTIVITIES IS ESSENTIAL TO MAXIMIZE THE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES. CONSTRUCTION SEQUENCING AND TIMING OF CONSTRUCTION ACTIVITIES WILL INCLUDE

- CONTROLS WHILE EARTHWORK IS BEING DONE IS REQUIRED.
- CEASED.
- COMPLETED.
- PHASED CLEARING/GRUBBING APPROPRIATE EROSION CONTROLS CANNOT BE INSTALLED PRIOR TO THE STORM. AFTER CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS.
- 4. MONITORING WEATHER CONDITIONS PROJECT.
- 5. INITIATING STABILIZATION PROCEDURES
- EXPOSED AREAS OF THE SITE.

MINIMIZE DISTURBED AREAS AND PROTECT NATURAL FEATURES AND SOIL

2.1. INSTALLATION OF ALL EROSION AND SEDIMENT CONTROLS THAT ARE REQUIRED TO BE IN PLACE AND FUNCTIONAL BEFORE ANY EARTHWORK BEGINS. THIS SHALL BE DONE IN ACCORDANCE WITH THE NPDES SWPPP FOR THIS PROJECT, THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS, AND THE MASSACHUSETTS STORMWATER HANDBOOK. UPON ACCEPTABLE COMPLETION OF SITE PREPARATION AND INSTALLATION OF EROSION AND SEDIMENT CONTROLS, SITE CONSTRUCTION ACTIVITIES MAY COMMENCE. ROUTINE INSPECTION AND MAINTENANCE AND/OR MODIFICATION OF EROSION AND SEDIMENT

2.2. UPON COMMENCEMENT OF SITE CONSTRUCTION ACTIVITIES, THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY

2.3. FINAL STABILIZATION OF ANY DISTURBED AREAS AFTER EARTHWORK HAS BEEN

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 3-DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO CLEAR AND GRUB THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 3- DAY TIME-FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 3 DAY TIME FRAME. NO UNDISTURBED AREAS SHALL BE CLEARED OF EXISTING VEGETATION AFTER OCTOBER 15TH OF ANY CALENDAR YEAR OR DURING ANY PERIOD OF FULL OR LIMITED WINTER SHUTDOWN. ALL DISTURBED SOILS EXPOSED PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDED OR PROTECTED BY THAT DATE. ANY SUCH AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION, AS DETERMINED BY THE SITE OPERATOR OR DESIGNATED INSPECTOR. BY NOVEMBER 15 OF ANY CALENDAR YEAR, MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTING OR HAY MULCH, IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS. IF WORK CONTINUES WITHIN ANY OF THESE AREAS DURING THE PERIOD FROM OCTOBER 15 THROUGH APRIL 15, CARE MUST BE TAKEN TO ENSURE THAT ONLY THE AREA REQUIRED FOR THAT DAY'S WORK IS EXPOSED, AND ALL ERODIBLE SOIL MUST BE RESTABILIZED WITHIN 5 WORKING DAYS. CLEARING/GRUBBING SHALL NOT TAKE PLACE DURING A RAIN EVENT IF EROSION IS LIKELY TO OCCUR; NOR SHALL IT OCCUR IF A RAIN EVENT IS FORECASTED AND

CLEARING, AND BY THE END OF EACH DAY'S GRUBBING OPERATION. THE SITE OPERATOR SHALL INSTALL EROSION CONTROL MEASURES THAT ARE INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. SUCH EROSION CONTROL MEASURES SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT

CARE SHALL BE TAKEN TO AVOID HAVING UNSTABILIZED AREAS EXPOSED DURING PRECIPITATION EVENTS. WEATHER FORECASTS SHALL BE ROUTINELY CHECKED, AND IN THE CASE OF AN EXPECTED PRECIPITATION EVENT OF OVER 0.25-INCHES OVER A 24-HOUR PERIOD, ALL BMPS SHALL BE INSPECTED, AND MAINTAINED AS NECESSARY, PRIOR TO THE WEATHER EVENT. DISTURBED SOIL AREAS, MATERIAL STORAGE, AREAS EXPOSED TO PRECIPITATION, AND IN-PLACE EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND THE ENGINEER A MINIMUM OF ONCE EVERY 7 DAYS, WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL, AND AT LEAST ONCE DAILY DURING PROLONGED RAINFALL OR SNOWMELT. DEFICIENCIES IN THE EROSION CONTROL MEASURES IDENTIFIED BY THE INSPECTIONS SHALL BE CORRECTED WITHIN THREE (3) CALENDAR DAYS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE WEATHER GAUGE STATION AND WEBSITE THAT SHALL BE UTILIZED TO MONITOR WEATHER CONDITIONS ON THE CONSTRUCTION SITE IS AS FOLLOWS: THE CONTRACTOR CAN MONITOR THE WEATHER CONDITIONS ON WWW.WUNDERGROUND.COM, WWW.WEATHER.COM, OR SIMILAR WEATHER INFORMATION SOURCE. THE LOGAN INTERNATIONAL AIRPORT WEATHER GAUGE OR SIMILAR. REPRESENTATIVE WEATHER GAUGE SHALL BE THE WEATHER GAUGE UTILIZED FOR THIS

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION AND SEDIMENT CONTROLS THE OPERATOR SHALL INITIATE APPROPRIATE STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN THREE (3) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED.

# CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT

STRUCTURAL BMPS ARE USED TO DIVERT FLOWS FROM EXPOSED SOILS, RETAIN OR DETAIN FLOWS, OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM

BMPS SHALL BE INSTALLED AS DEPICTED ON THE APPROVED PLAN SET AND IN

ACCORDANCE WITH MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. THE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES SUCH AS DIVERSION CHANNELS, SEDIMENTATION OR FILTRATION SYSTEMS, BERMS, STAKED HAY BALES, SEEDING, MULCHING OR OTHER SPECIAL SURFACE TREATMENTS AS ARE REQUIRED TO PREVENT SILTING AND MUDDYING OF STREAMS, RIVERS, IMPOUNDMENTS, LAKES, ETC. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

# 7. <u>STABILIZE SOILS</u>

DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN THREE (3) DAYS MUST BE STABILIZED USING THE BMPS DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH APPLICABLE MEASURES SPECIFIED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. THE CONTRACTOR SHALL STABILIZE THE DISTURBED SOILS THROUGH SEEDING, HYDROSEEDING, MULCHING AND DUST CONTROL THROUGH USE OF WATER. FOR TURFS AND GRASSES, STABILIZE FINAL GRADED AREAS WITHIN SEVEN DAYS OF GRADE PREPARATION BY PREPARING TOPSOIL AND THEN APPLYING SEED AND MULCH. FOR DUST CONTROL, STABILIZE EXPOSED SOILS DURING DRY WEATHER BY APPLYING WATER SITE-WIDE.

# 8. PROTECT SLOPES SLOPES THAT WILL HAVE CONCENTRATED STORMWATER FLOW MUST BE PROTECTED USING THE BMPS DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. IF THE SLOPE STABILIZATION BMPS FAIL AND EROSION OCCURS, THEN ALTERNATIVE CONTROL MEASURES MAY BE USED UPON APPROVAL OF THE SITE OWNER, WHICH MAY INCLUDE COMPOST FILTER SOCKS, FIBER ROLLS, GRAVEL BAG BERMS, EROSION CONTROL MATS/BLANKETS, AND TEMPORARY VEGETATIVE COVER.

# 9. PROTECT STORM DRAIN INLETS

STORM DRAIN INLET PROTECTION MEASURES PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. THESE MEASURES ARE USUALLY TEMPORARY AND ARE IMPLEMENTED BEFORE A SITE IS DISTURBED. ALL STORMWATER INLETS AND/OR CATCH BASINS THAT ARE OPERATIONAL DURING CONSTRUCTION AND MAY RECEIVE SEDIMENT-LADEN STORMWATER FLOW FROM THE CONSTRUCTION SITE MUST BE PROTECTED USING ANY OF THE BMPS OUTLINED IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. POSSIBLE CONTROL MEASURES THAT MAY BE USED INCLUDE COMPOST FILTER SOCKS, FIBER ROLLS, GRAVEL BAG BERMS, OR CATCH BASIN INSERTS. (PLEASE NOTE: HAYBALE/SILT FENCE PROTECTION MEASURES DO NOT WORK ON PAVED SURFACES). THE CONTRACTOR SHALL PROTECT THE STORM DRAIN INLETS WITH BALED HAY CATCH BASIN INLET PROTECTION DETAIL DEPICTED IN THE CONTRACT DRAWINGS. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

# 10. ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS

PERIMETER CONTROLS SHALL BE INSTALLED, AND MAINTAINED, AS DEPICTED ON THE APPROVED SWPPP PLAN SET AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK. IF THE BALED HAY AND/OR SILT FENCE EROSION CHECKS FAIL TO CONTAIN THE SEDIMENT ON-SITE, THEN ALTERNATIVE CONTROL MEASURES MAY BE SUBSTITUTED WITH

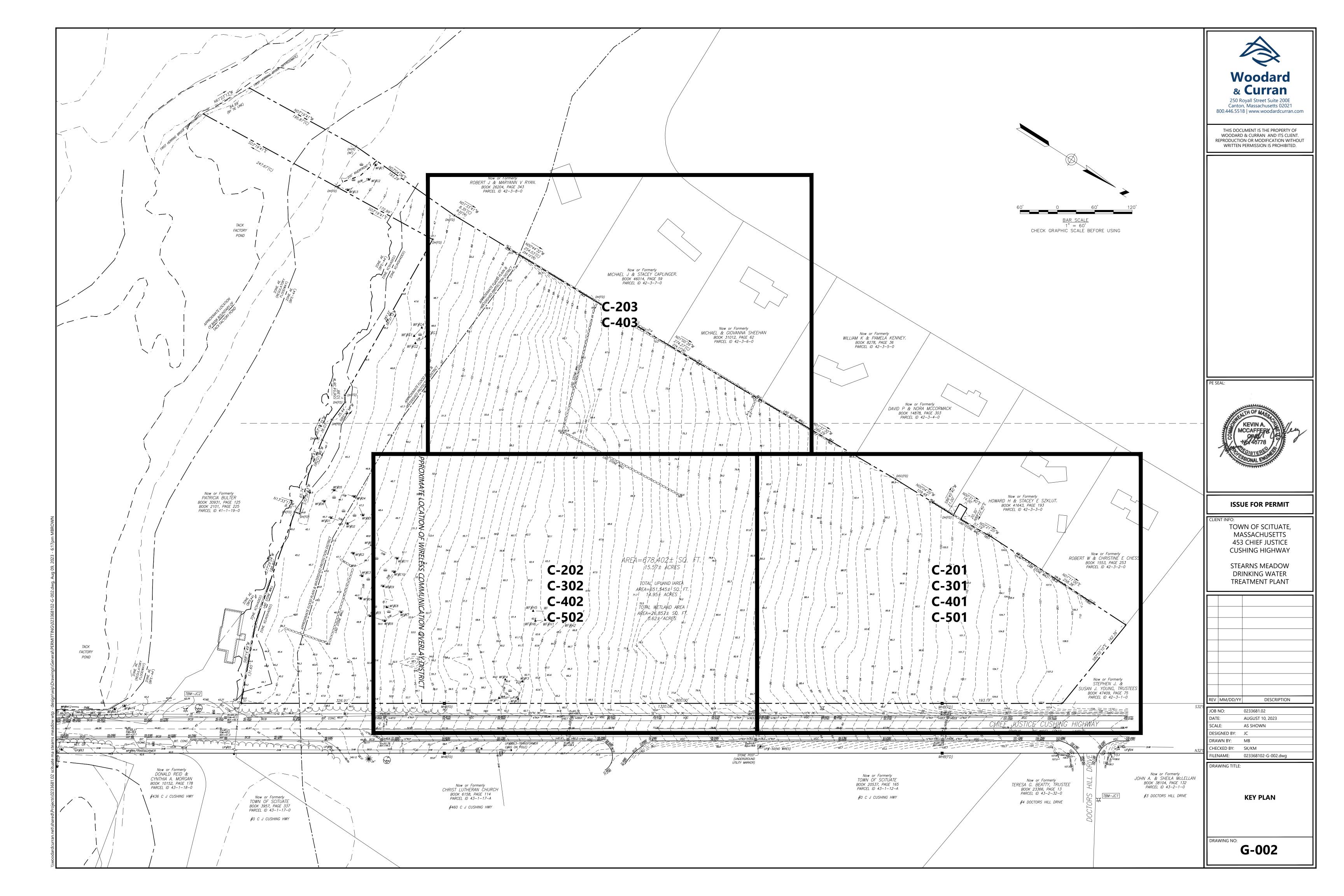
APPROVAL OF THE SITE OWNER. SUCH MEASURES MAY INCLUDE (BUT ARE NOT LIMITED TO) COMPOST FILTER SOCKS OR STRAW WATTLES (FIBER ROLLS). THE CONTRACTOR SHALL ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS AT LEAST 48 HOURS BEFORE SITE CLEARING AND SOIL DISTURBANCE. THE SEDIMENT CONTROLS SHALL BE DOWNHILL OF DISTURBED AREAS IN ACCORDANCE WITH THE DETAILS DEPICTED IN THE DRAWINGS. ALL EROSION CONTROL MEASURES SHALL BE IN PLACE IN AN AREA PRIOR TO ANY CONSTRUCTION ACTIVITY IN THAT AREA.

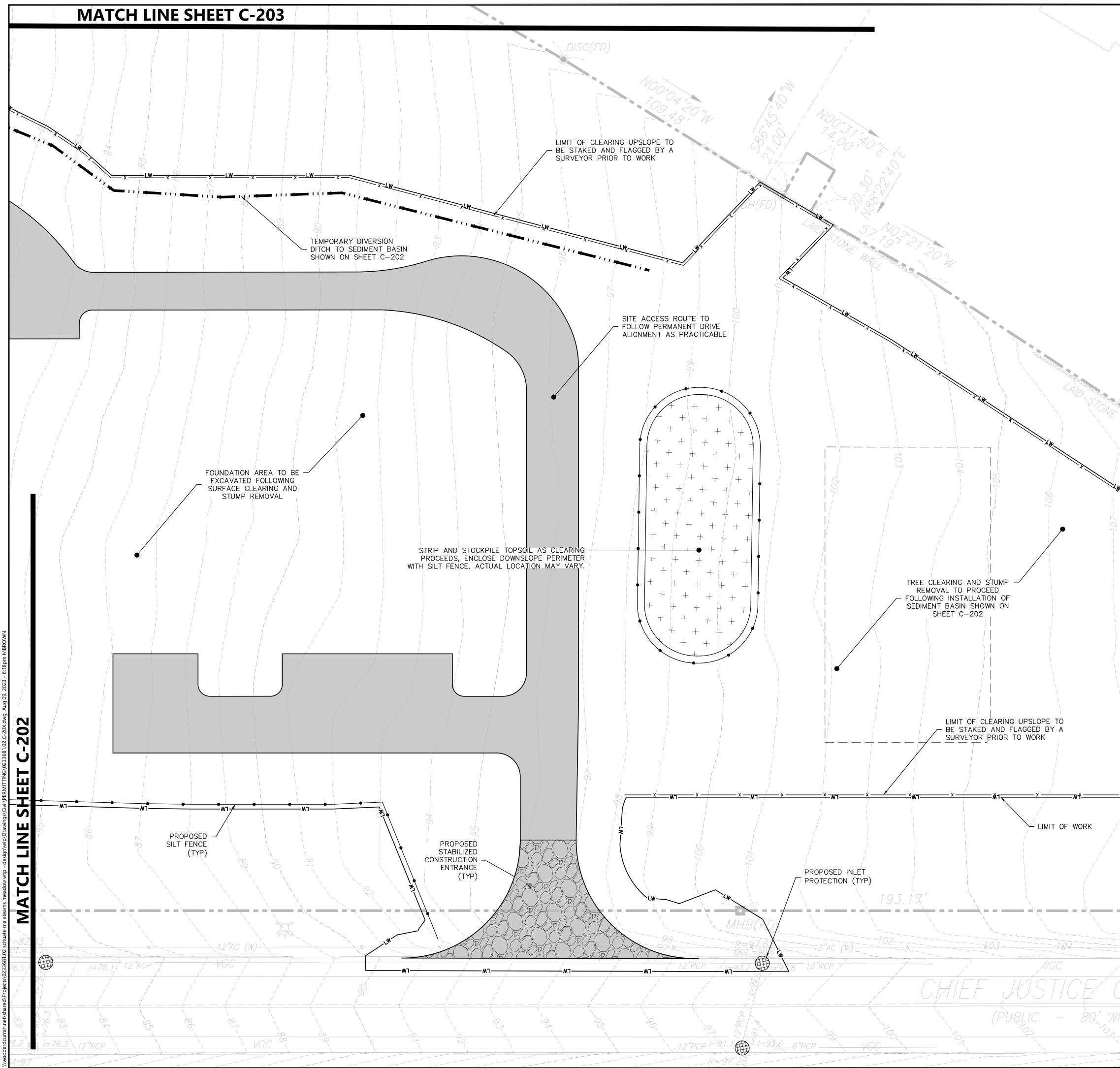
## 11. RETAIN SEDIMENT ON-SITE AND CONTROL DEWATERING PRACTICES SEDIMENT TRAPS, BASINS, AND BARRIERS ARE USED TO RETAIN SEDIMENT ON THE SITE TO PROTECT STREAMS, LAKES, DRAINAGE SYSTEMS, AND ADJACENT PROPERTY. THESE DEVICES ARE USED AT THE OUTLETS OF CHANNELS, DIVERSIONS, AND OTHER RUNOFF CONVEYANCE MEASURES TO ALLOW SEDIMENT-FILLED WATER TO POOL AND THE SEDIMENT TO SETTLE. THESE MEASURES ARE OFTEN USED AS THE LAST LINE OF DEFENSE TO STOP SEDIMENT FROM LEAVING THE SITE. DISCHARGE OF SEDIMENT-LADEN WATER INTO STORM DRAINS, STREAMS, RIVERS, LAKES OR WETLANDS PRIOR TO SEDIMENT REMOVAL IS PROHIBITED. A TEMPORARY SEDIMENT TRAP OR BASIN MAY BE INSTALLED AND MAINTAINED AS NECESSARY WITHIN THE SITE BOUNDARIES AND IN ACCORDANCE WITH THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES FOR URBAN AND SUBURBAN AREAS OR THE MASSACHUSETTS STORMWATER HANDBOOK.

# GRADING AND DRAINAGE NOTES:

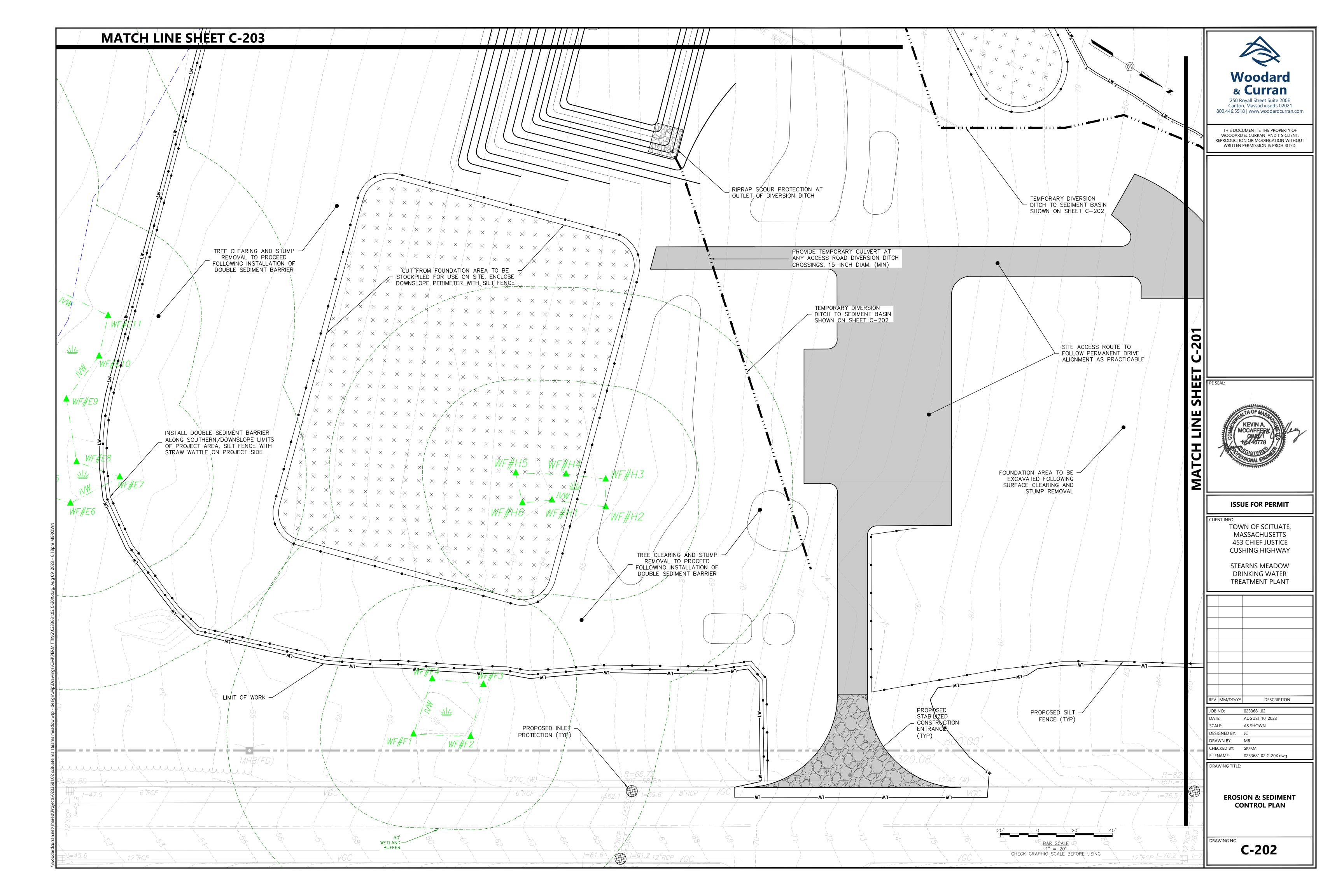
- 1. PROPOSED DRAINAGE STRUCTURES SHALL BE SET TO CORRESPOND TO THE PROPOSED ELEVA ON THE DRAWINGS. ANY CONFLICTS AND OR DISCREPANCIES AND SHALL NOTIFY THE ENGIN
- 2. UNSUITABLE FILL AND BACKFILL MATERIALS ARE MATERIALS CONTAINING EXCESSIVE AMOUNT PLASTIC, CLAY, SILT, VEGETATION, ORGANIC MATTER, DEBRIS, PAVEMENT, STONES OR BOULDE INCHES IN GREATEST DIMENSION, FROZEN MATERIAL, AND MATERIAL WHICH, IN THE OPINION ENGINEER, WILL NOT PROVIDE A SUITABLE FOUNDATION OR SUBGRADE.
- 3. SUITABLE SOIL SHALL BE PLACED IN LAYERS TO THE REQUIRED ELEVATIONS AS SHOWN ON FILL, BACKFILL AND COMPACT TO PRODUCE MINIMUM SUBSEQUENT SETTLEMENT OF THE MATE PROVIDE ADEQUATE SUPPORT FOR THE SURFACE TREATMENT OR STRUCTURE TO BE PLACED MATERIAL. PLACE MATERIAL IN APPROXIMATELY HORIZONTAL LAYERS OF BEGINNING AT LOWE FILLED. DO NOT IMPAIR DRAINAGE. DO NOT USE ON-SITE TOPSOIL AS FILL MATERIAL.
- 4. FOR GROUND SURFACE PREPARATION, REMOVE VEGETATION, DEBRIS, UNSUITABLE SOIL MATE OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM GROUND SURFACE PRIOR TO PLACEMEN REMOVE MATERIAL TO THE FULL EXTENT OF ROOT PENETRATION. PROOF-ROLL EXISTING GRO PRIOR TO PLACEMENT OF FILL TO PROVIDE A DENSE, STABLE BASE FOR THE FIRST LIFTS OF
- 5. PRIOR TO THE START OF CONSTRUCTION, HAND DIG TEST PITS TO VERIFY THE LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL VERIFY LOCATION, PIPE MATERIAL, AND ELEVA EXISTING UTILITIES AT PROPOSED UTILITY CROSSINGS, AND ADVISE THE ENGINEER IN WRITING DISCREPANCIES.
- 6. ALL PROPOSED UTILITIES AND THEIR CONNECTIONS, DISCONNECTION AND RELOCATION OF EXIS SHALL BE COMPLETED IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER HAV JURISDICTION. ANY COORDINATION WITH THE MUNICIPALITY AND/OR UTILITY OWNER, PERMITS, APPROVALS REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 7. EROSION CONTROL BARRIERS SHALL BE INSTALLED PRIOR TO COMMENCING ANY WORK ON TH ALL STREETS FREE OF DUST, MUD, AND DEBRIS, STREETS AND WALKWAYS SHALL BE SWEPT TEMPORARY CONSTRUCTION ENTRANCE-EXITS SHALL BE UTILIZED DURING CONSTRUCTION.
- 8. MAINTAIN VEHICULAR AND PEDESTRIAN FLOW ALONG ROUTE 3A AT ALL TIMES DURING CONST COORDINATE ALL TRAFFIC CONTROL AS WELL AS ANY SIDEWALK OR LANE CLOSURES WITH T MASSDOT AS REQUIRED. OBTAIN WRITTEN APPROVAL FROM THE OWNER IN ADVANCE FOR AN ROAD CLOSURES AS REQUIRED TO COMPLETE THE WORK. COORDINATE AND PROVIDE POLICE REQUIRED, AT NO ADDITIONAL COST TO THE OWNER
- 9. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY CONSTRUCTION AND BUILDING PERMIT APPLICATIONS SHALL BE SUBMITTED WITH ADEQUATE TIME SO AS NOT TO DELAY CO

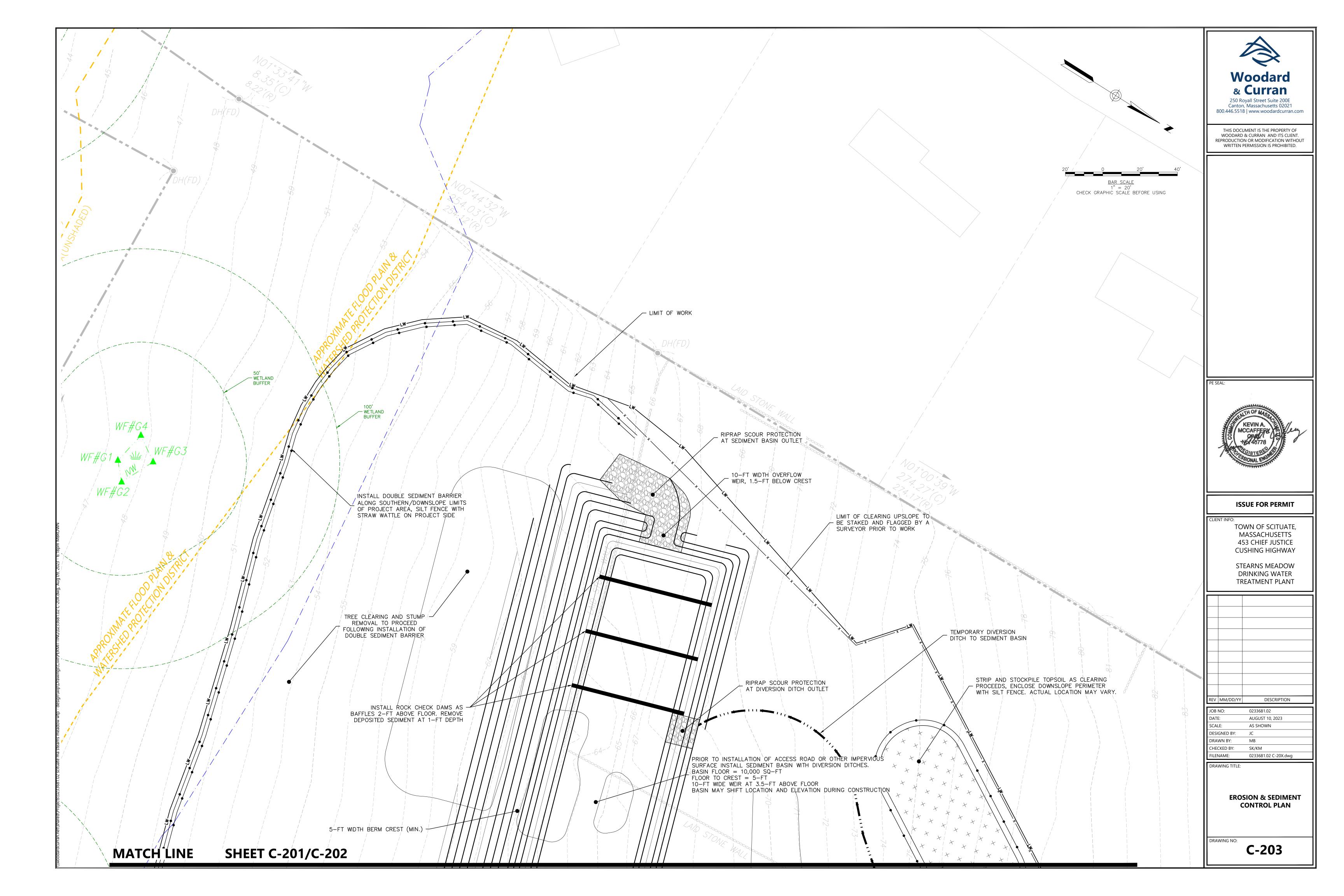
		LEGEND		
	DESCRIPTION	EXISTING	PROPOSED	
	PROPERTY LINE			
	FLOOD PLAIN & WATERSHED			Woodard & Curran
	PROTECTION DISTRICT BANK BOUNDARY OF POND			250 Royall Street Suite 200E
	WETLAND LINE			Canton, Massachusetts 02021 800.446.5518   www.woodardcurran.com
	WETLAND BUFFER LINE	· ·		THIS DOCUMENT IS THE PROPERTY OF
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	ELECTRIC LINE	E	Е	
	OVERHEAD ELECTRIC	OE	OE	
	EDGE OF VEGETATION CLEANOUT		•	
	STORM DRAIN MANHOLE	$\bigcirc$	D	
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	INLET PROTECTION			
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	SIGN SPOT GRADE	_ <u></u> ×110.60	+93.83	
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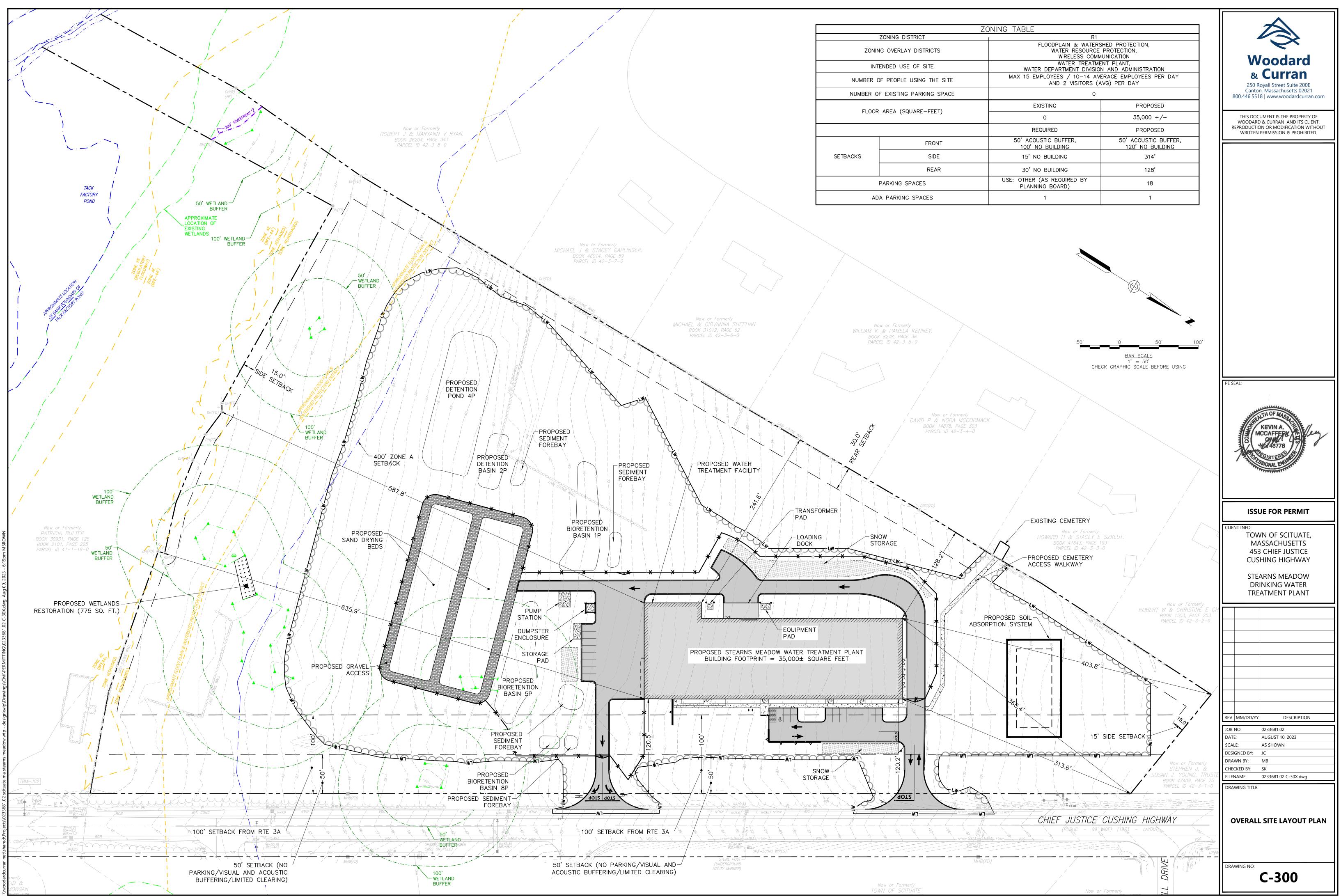


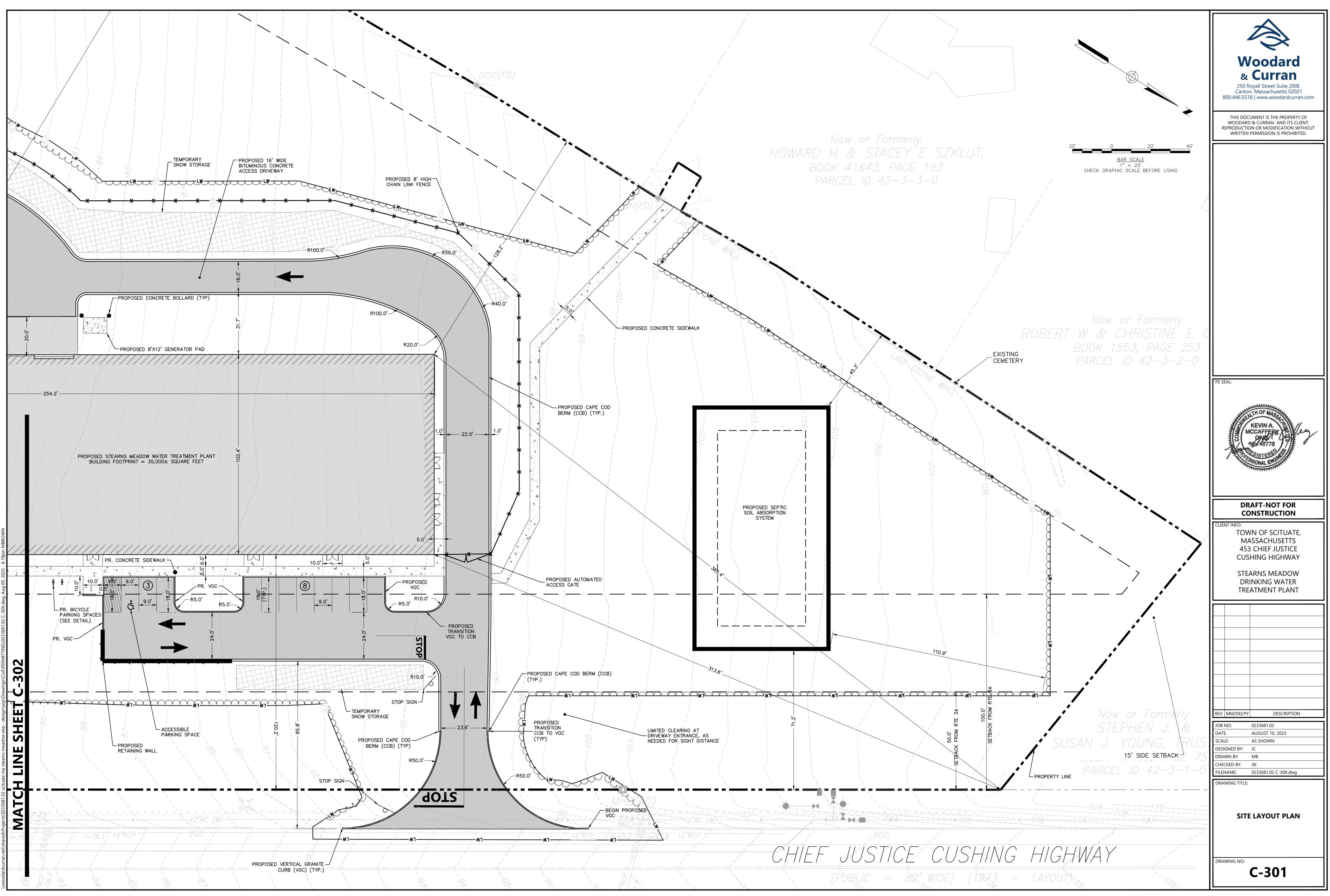


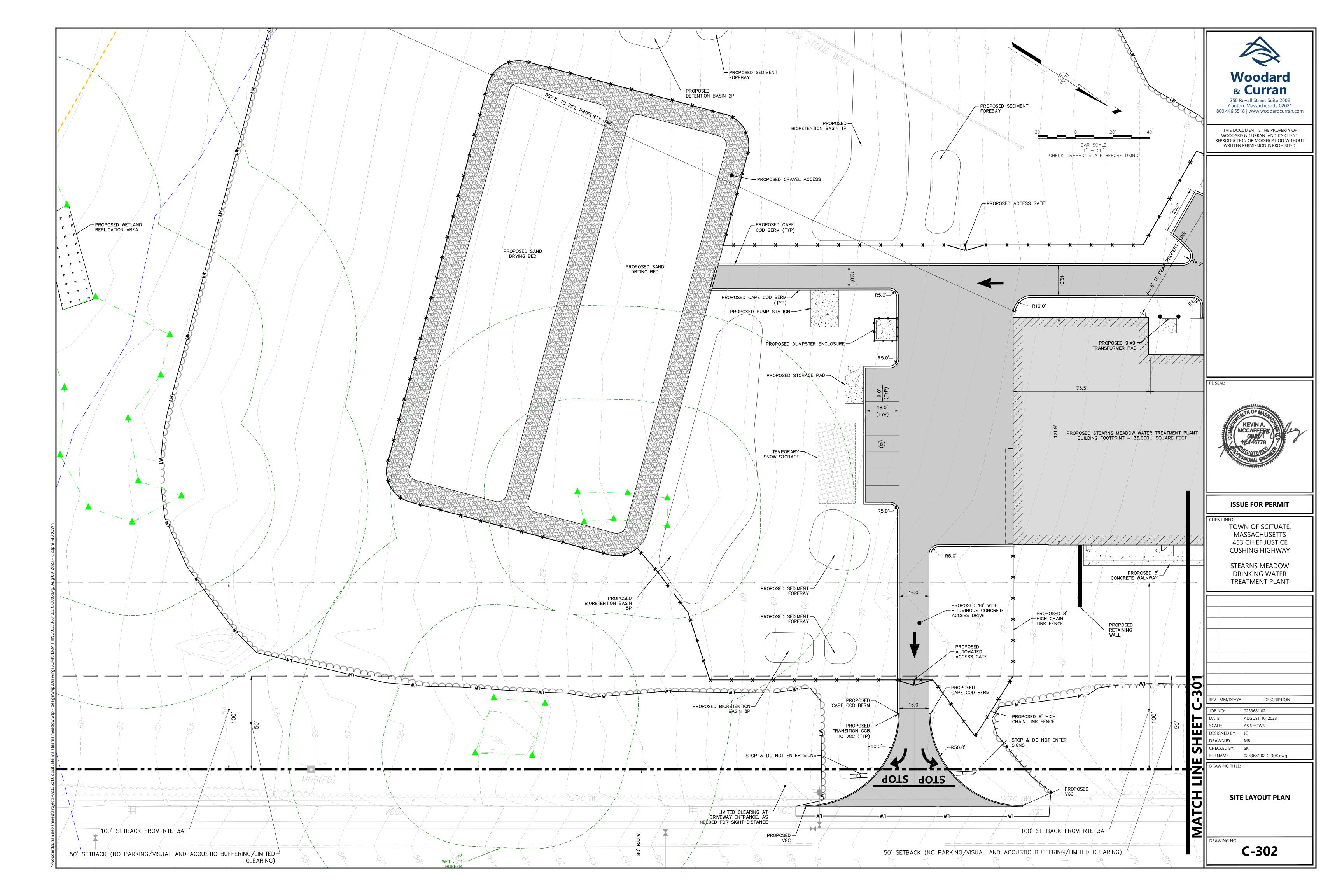
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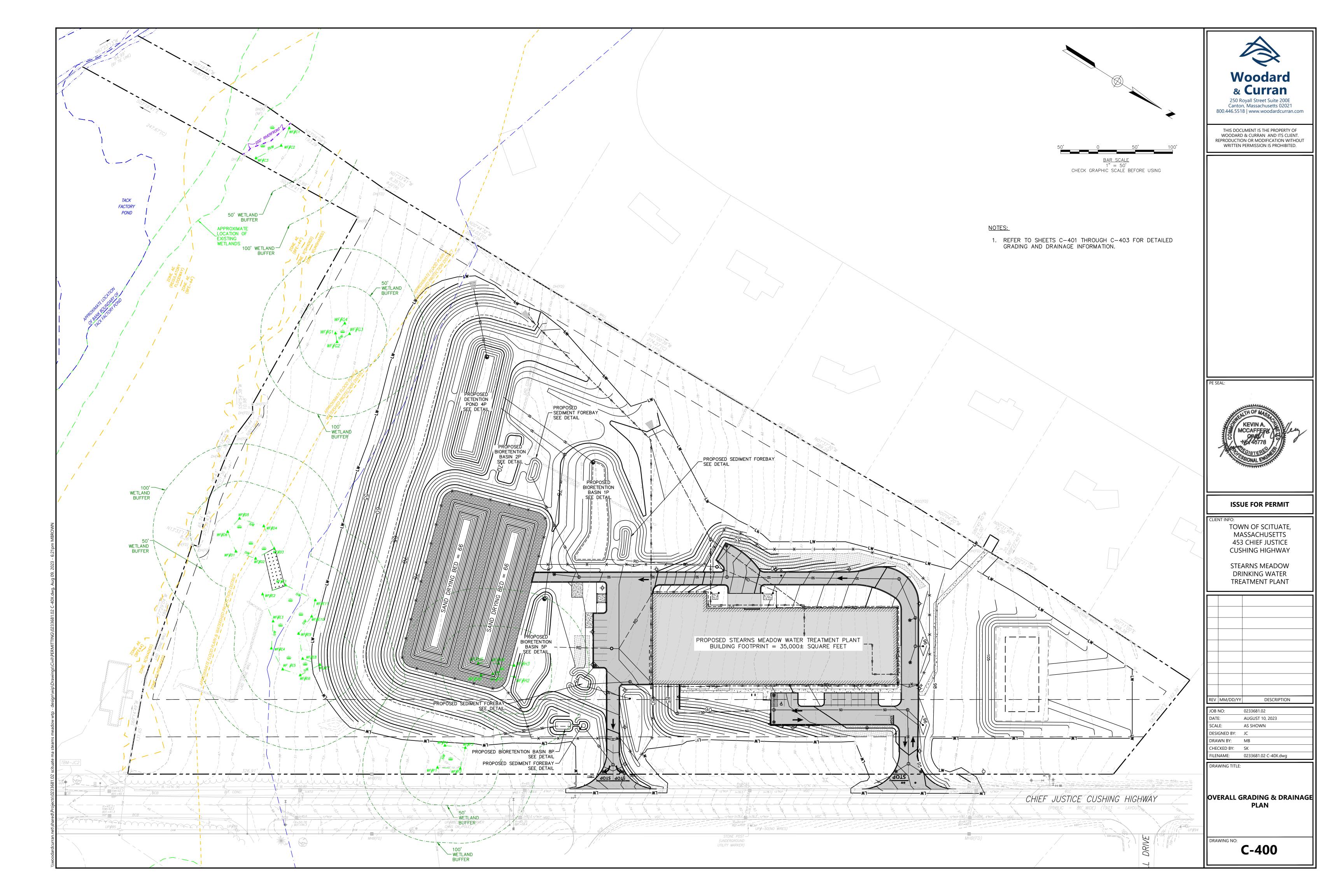


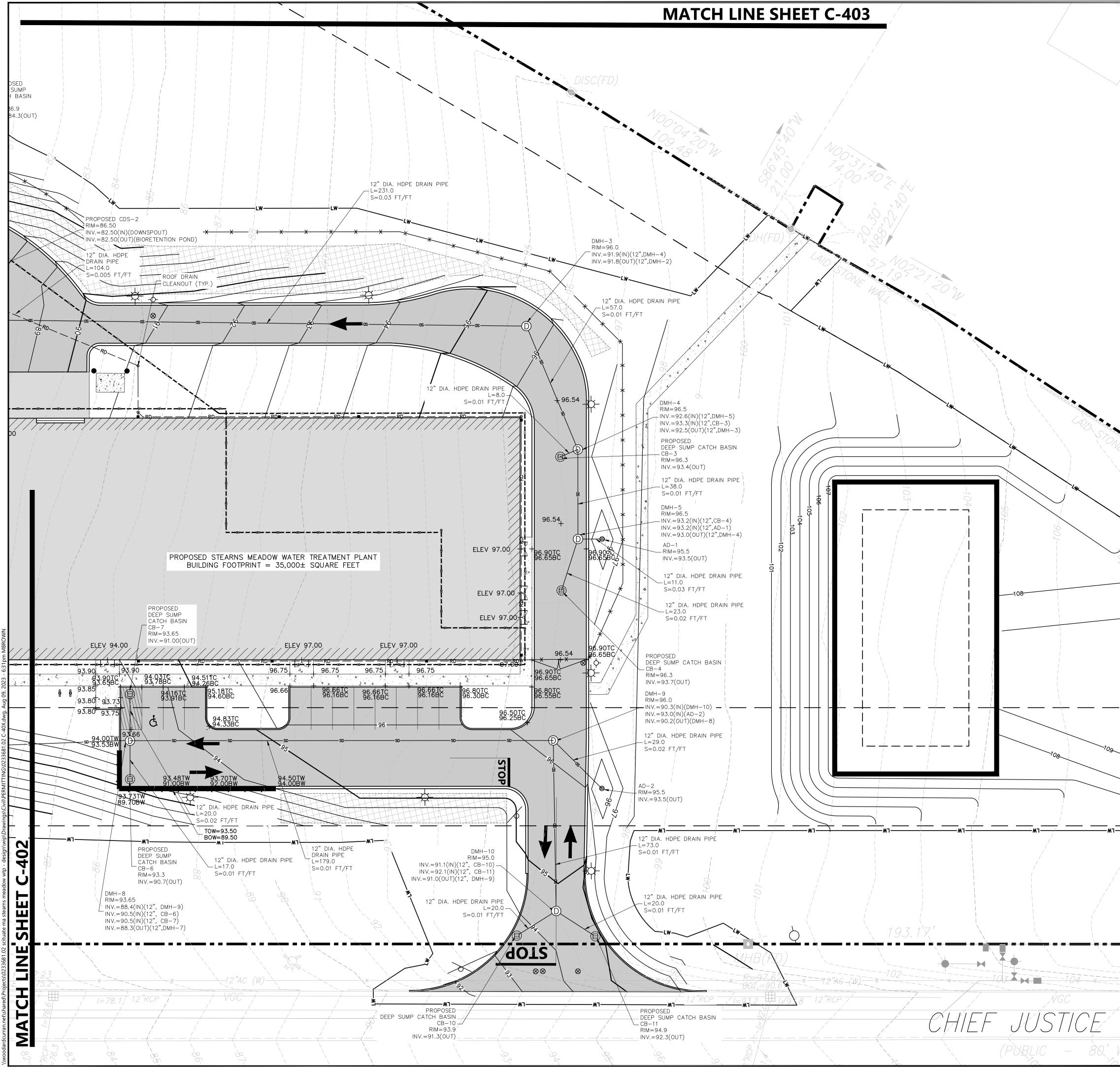




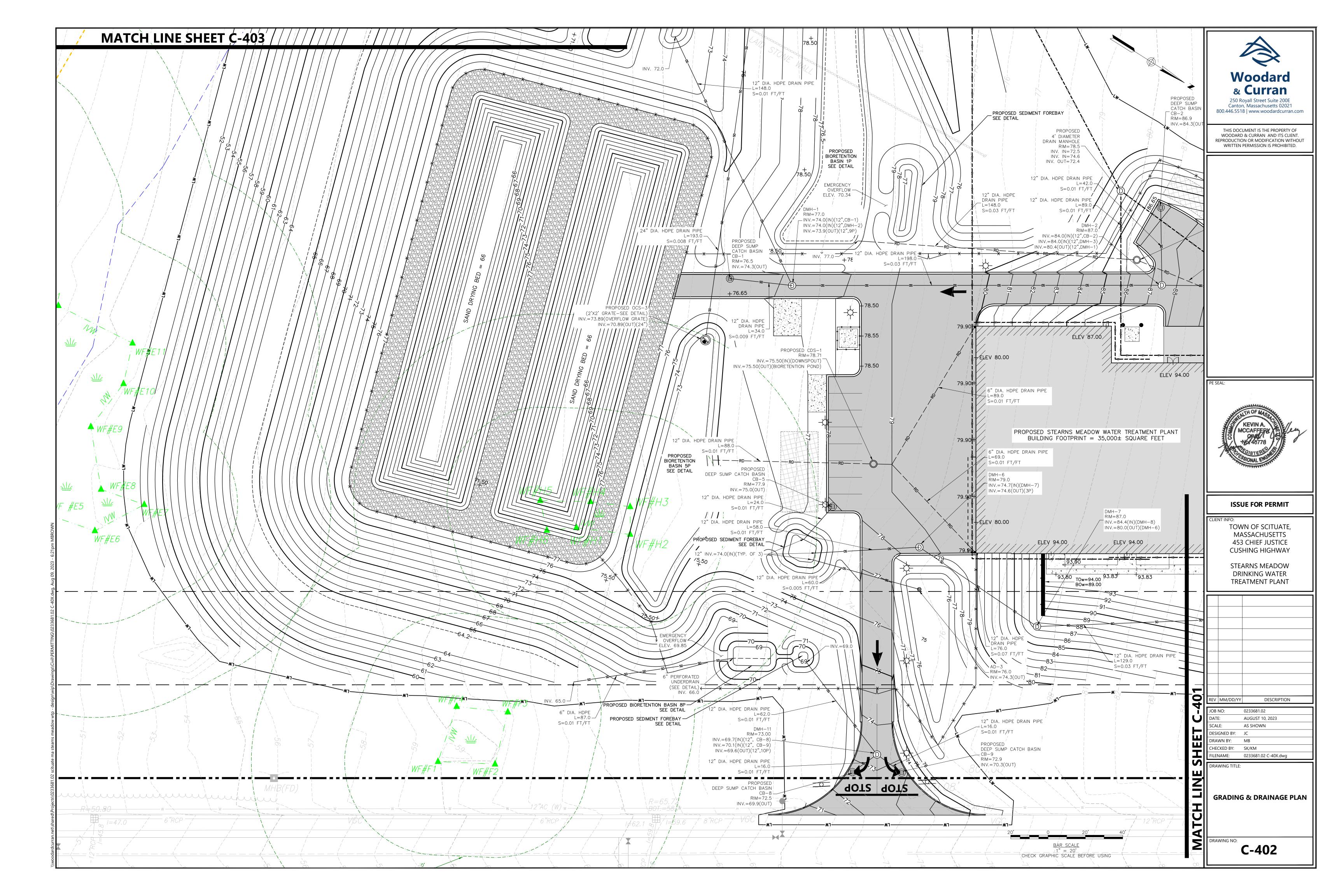


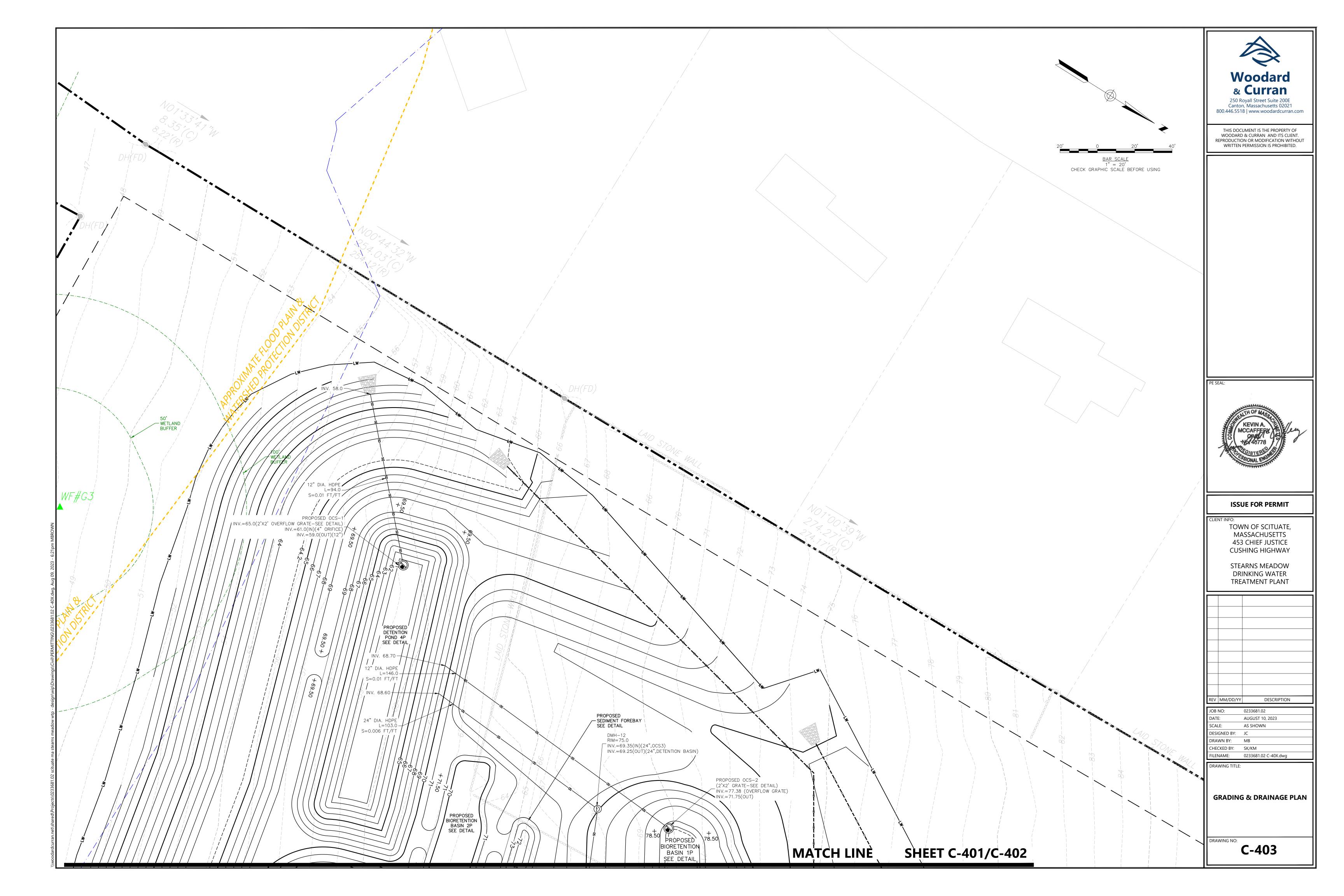


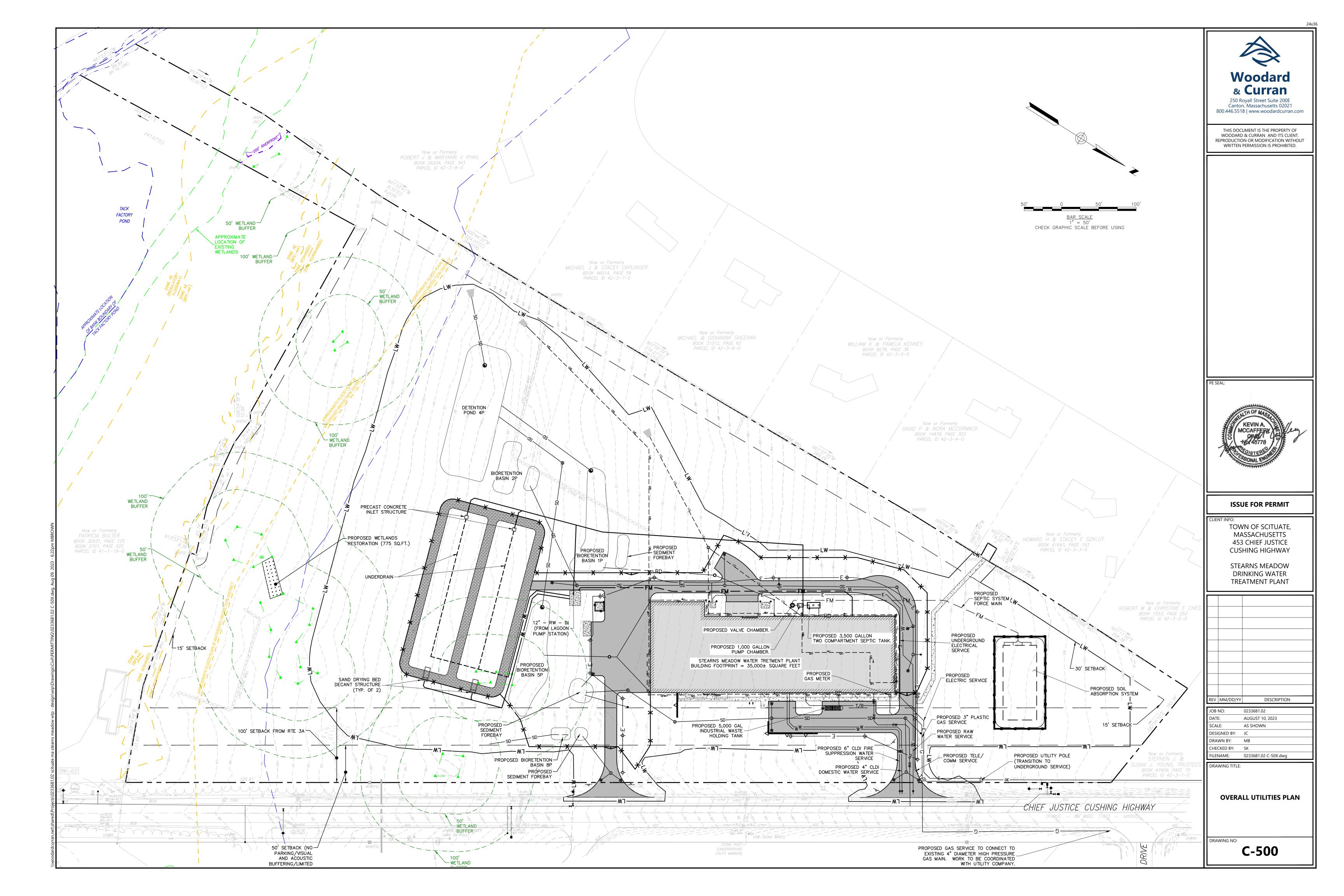


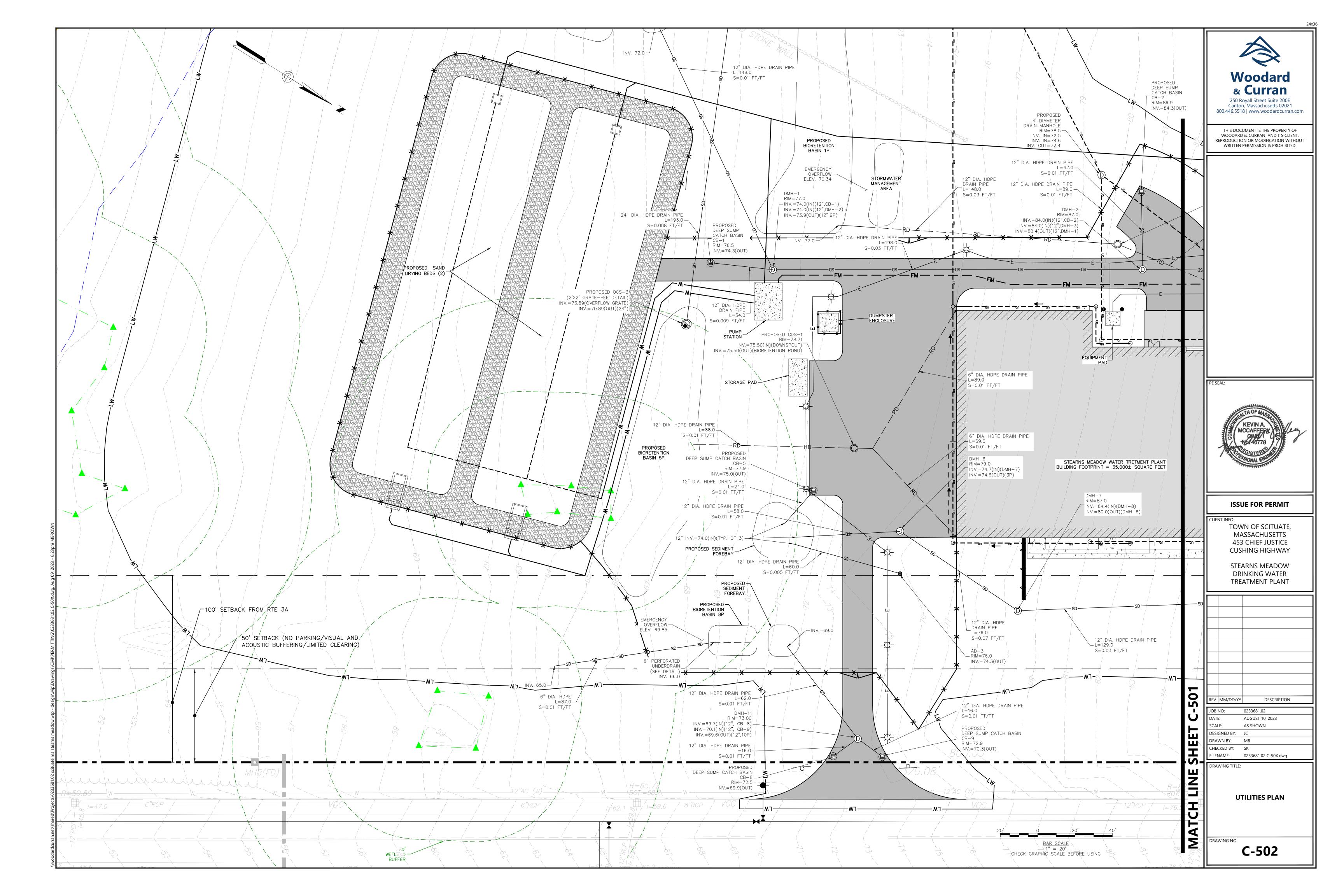


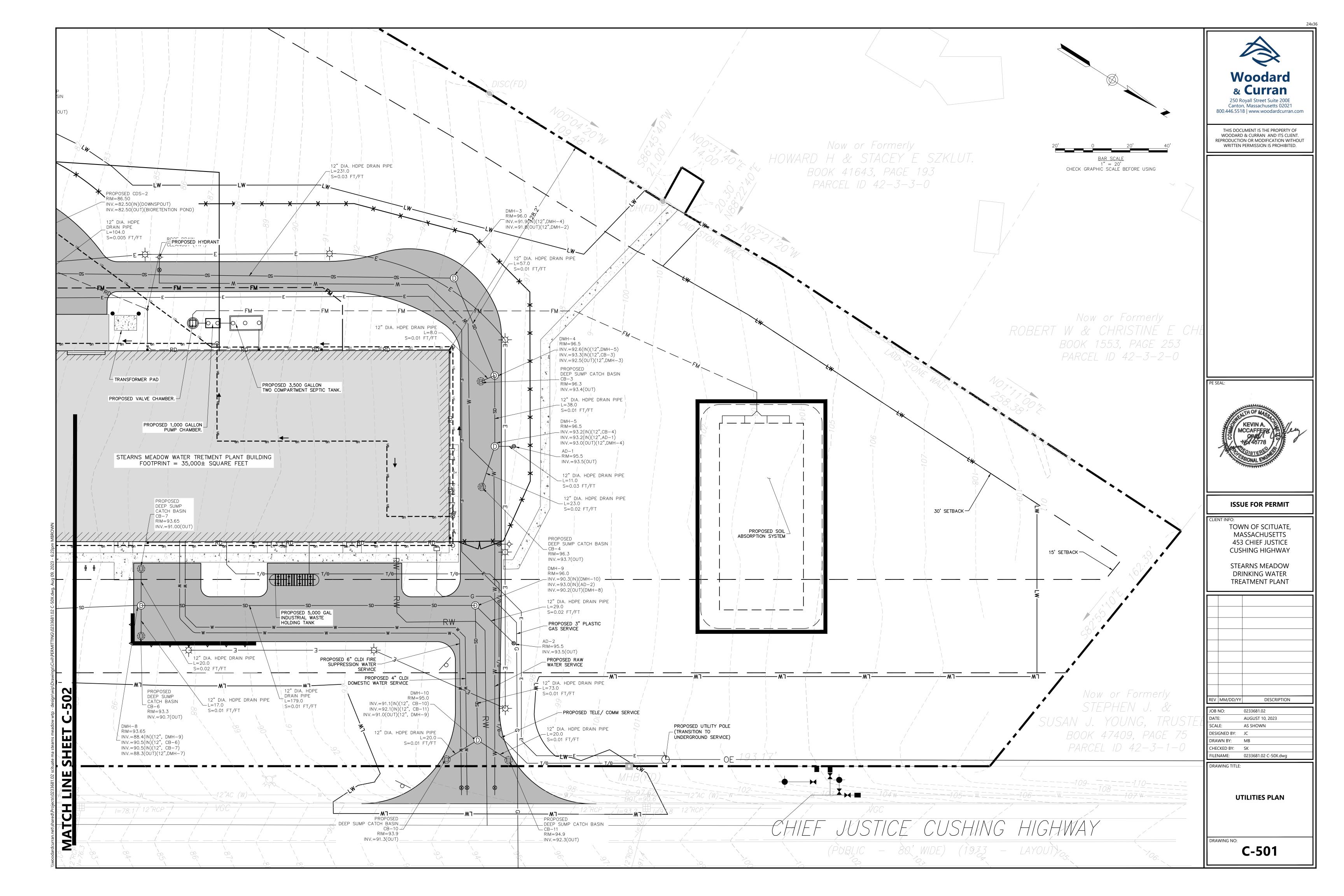
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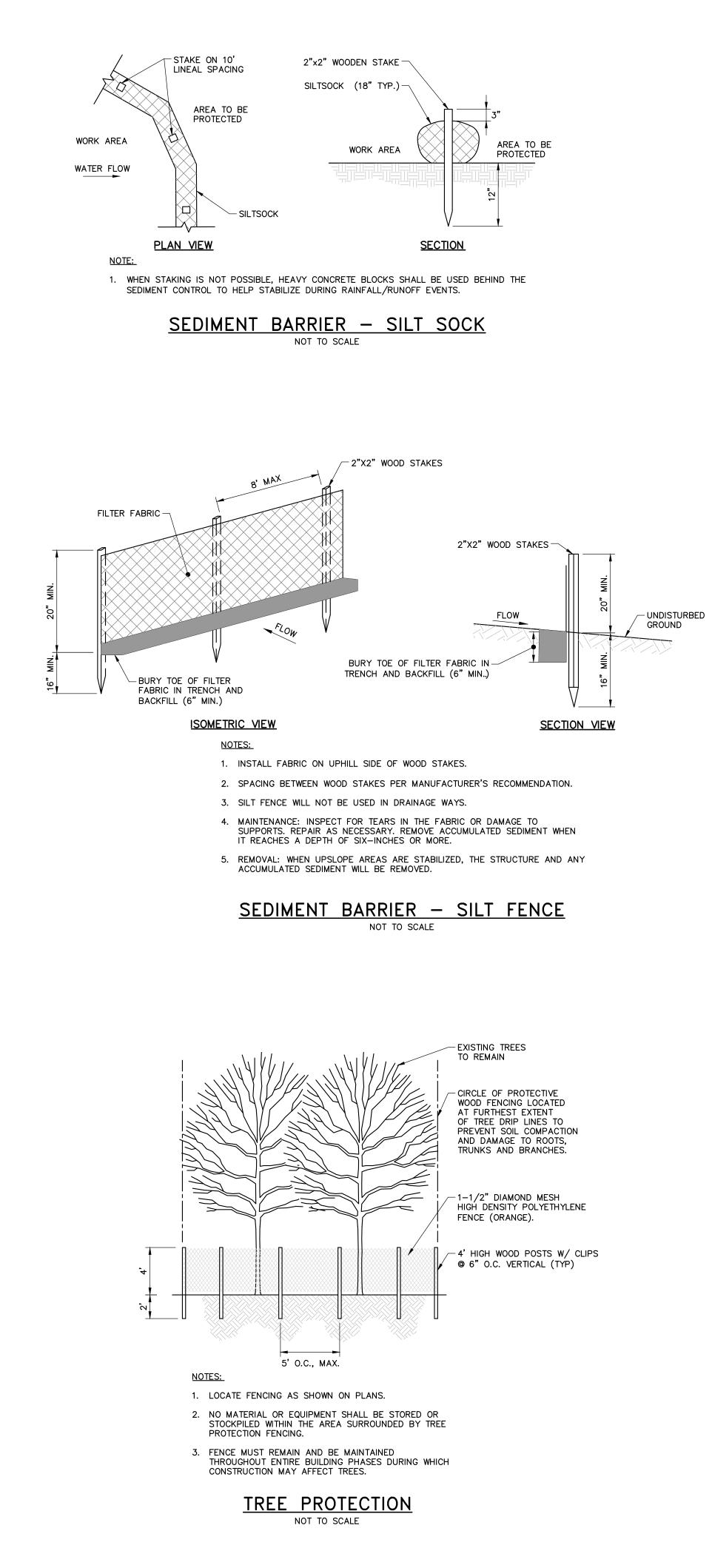


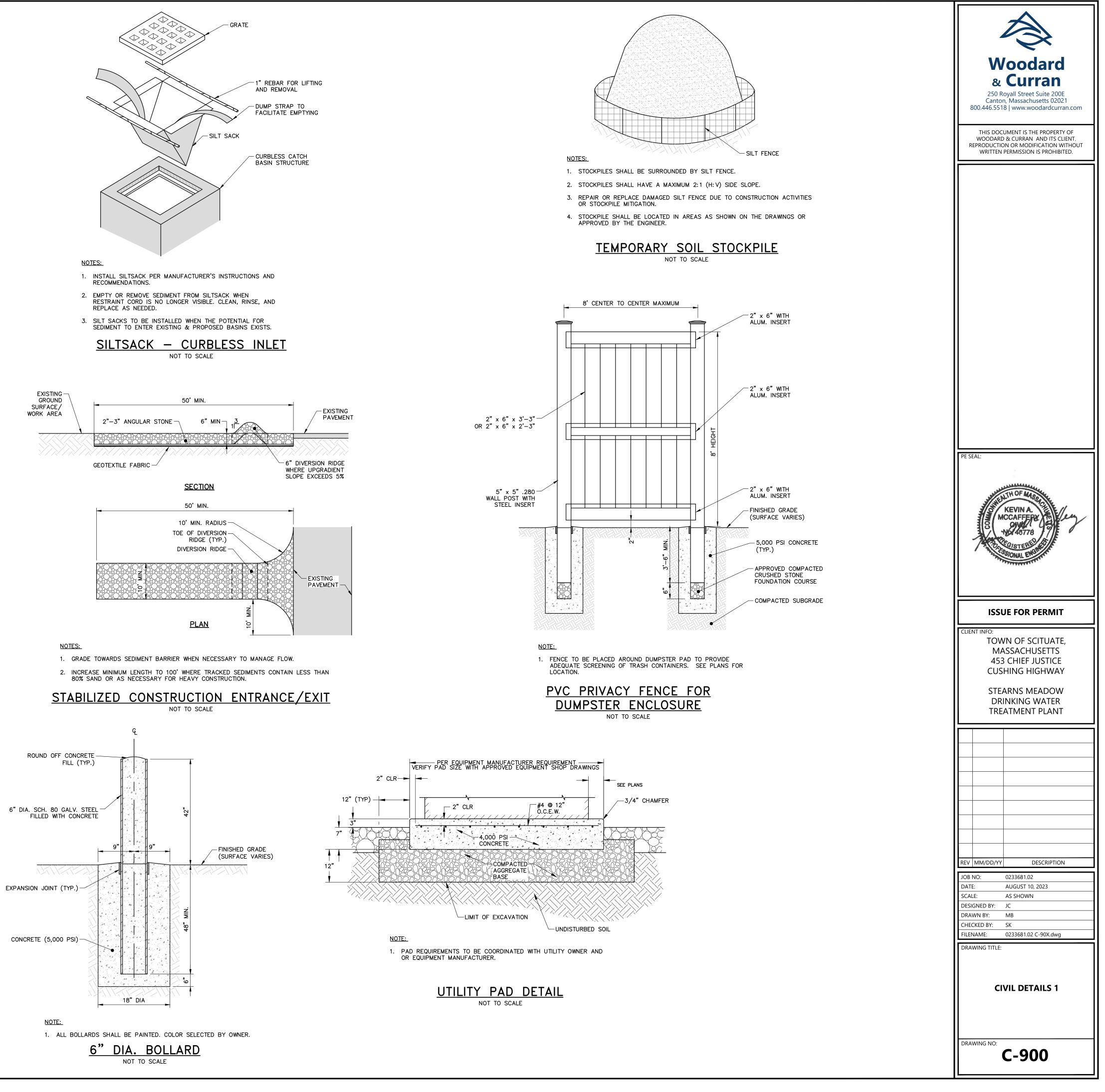


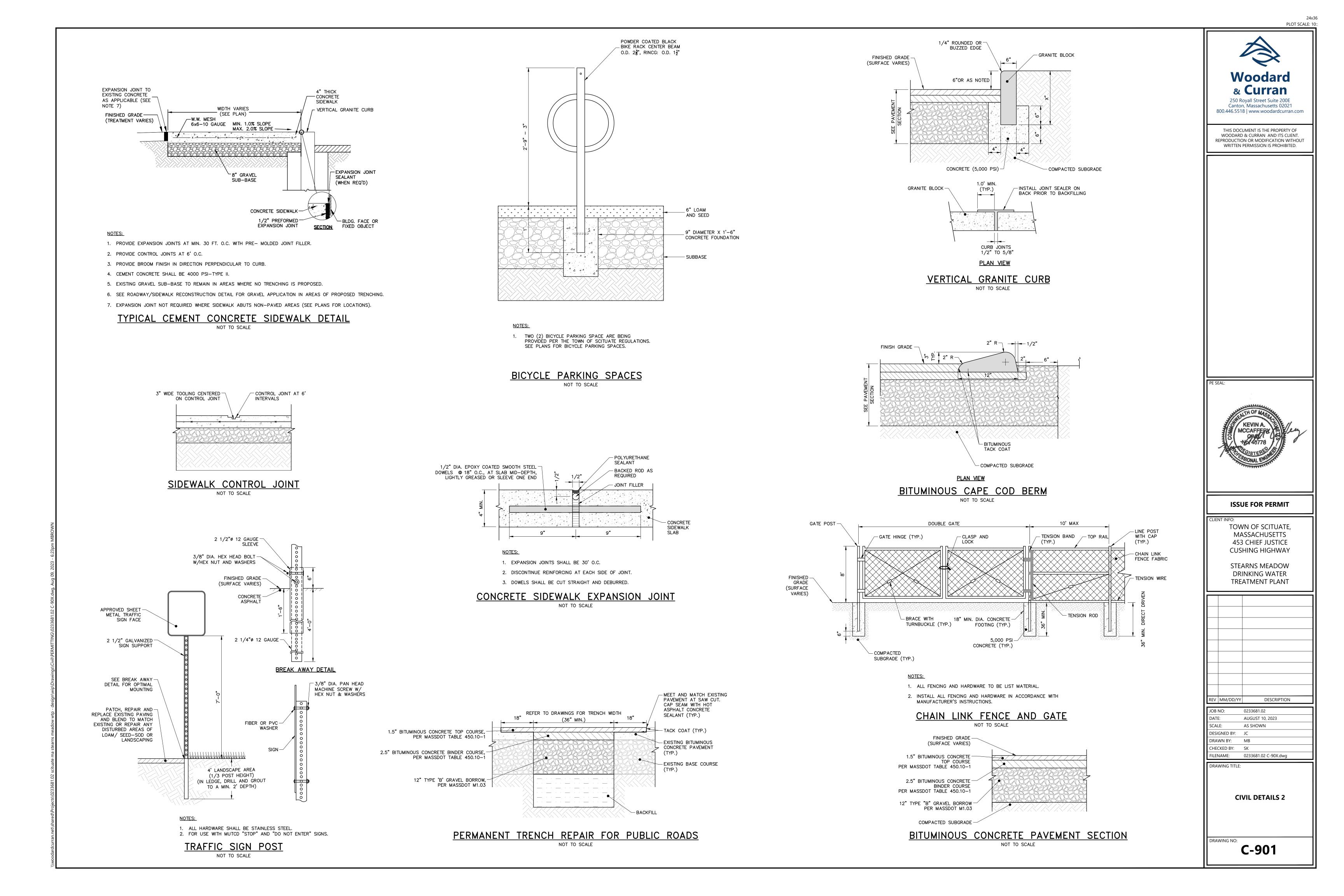


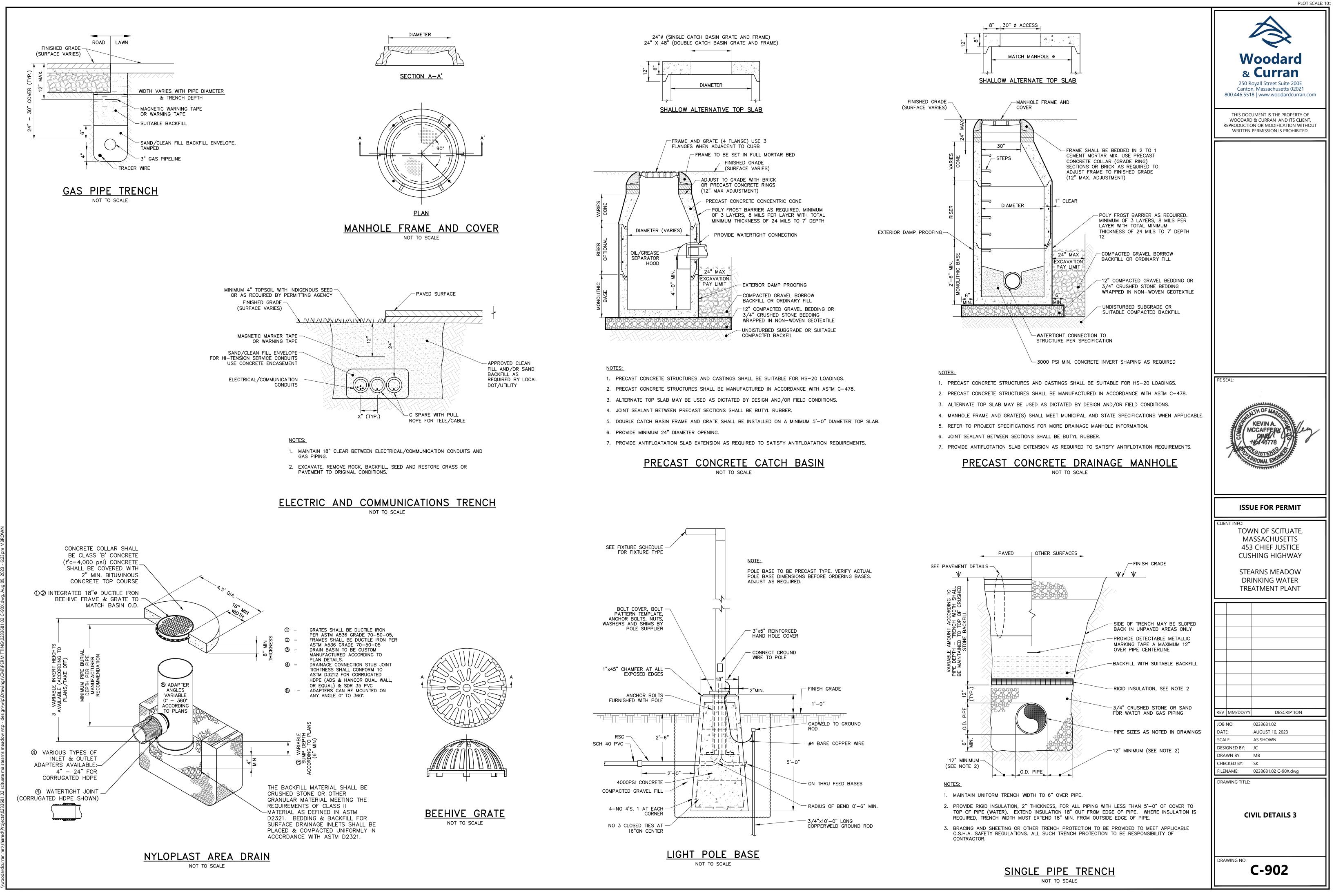


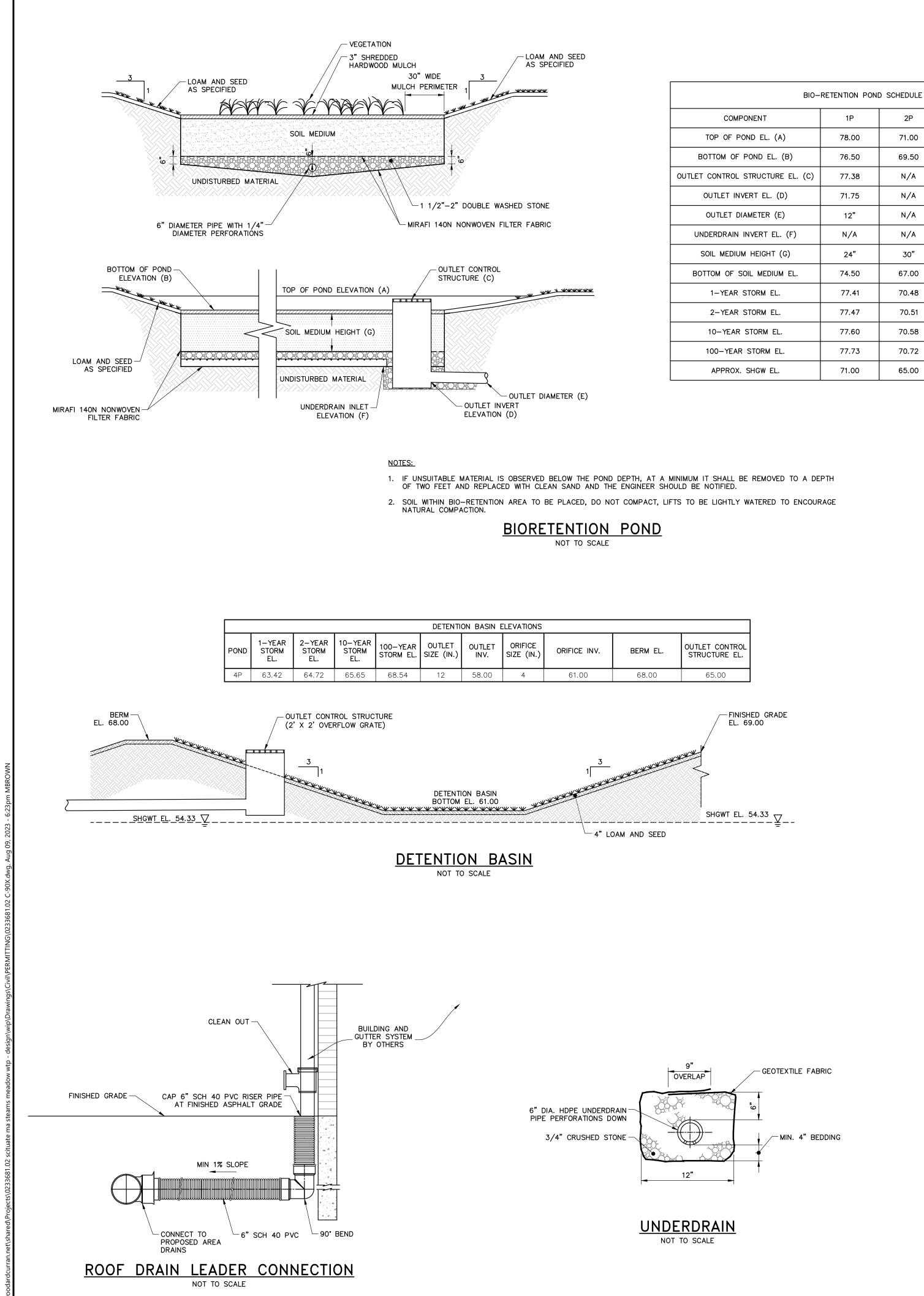




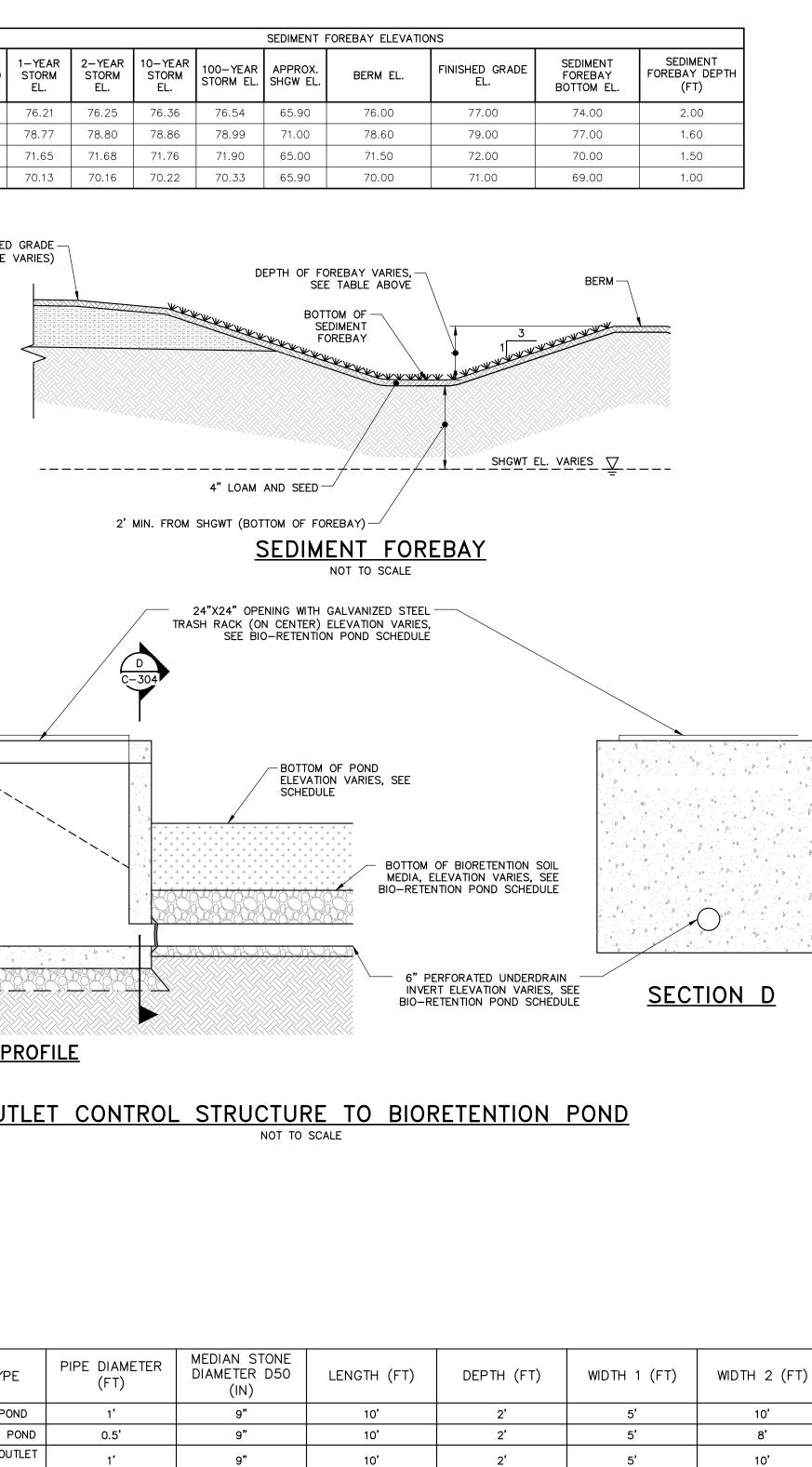


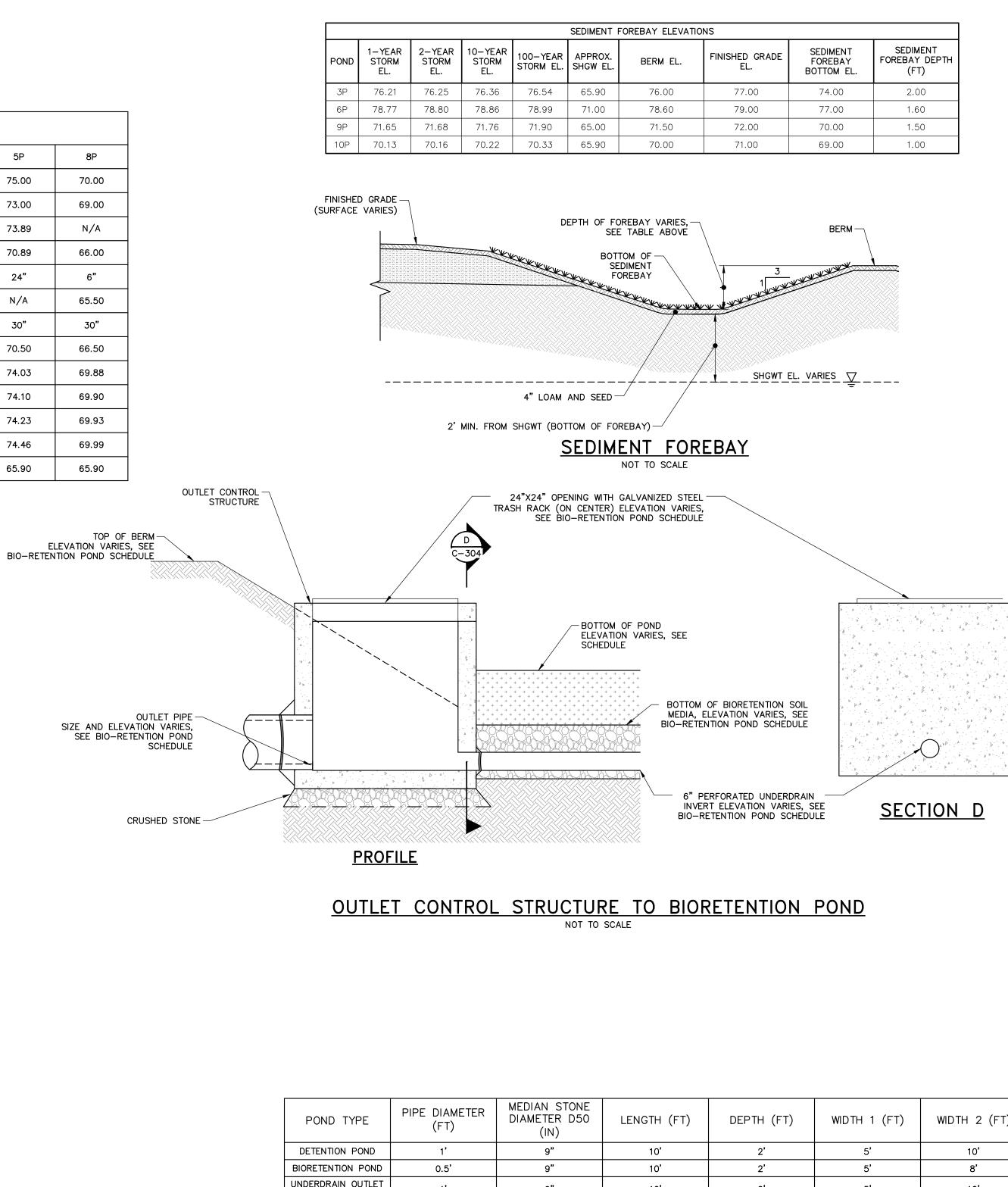






1-YEAR STORM EL.	2-YEAR STORM EL.	10– YEAR STORM EL.	100-YE STORM
76.21	76.25	76.36	76.54
78.77	78.80	78.86	78.99
71.65	71.68	71.76	71.90
70.13	70.16	70.22	70.33
	EL. 76.21 78.77 71.65	EL.         EL.           76.21         76.25           78.77         78.80           71.65         71.68	EL.EL.EL.76.2176.2576.3678.7778.8078.8671.6571.6871.76







2P

71.00

69.50

N/A

N/A

N/A

N/A

30"

67.00

70.48

70.51

70.58

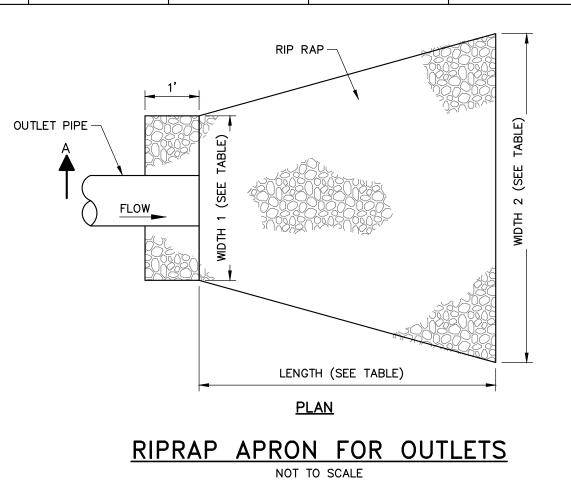
70.72

65.00

24"

30"

POND TYPE	PIPE DIAMETER (FT)	MEDIAN S DIAMETER (IN)
DETENTION POND	1'	9"
BIORETENTION POND	0.5'	9"
UNDERDRAIN OUTLET NO. 1	1'	9"
UNDERDRAIN OUTLET NO. 2	0.5'	9"



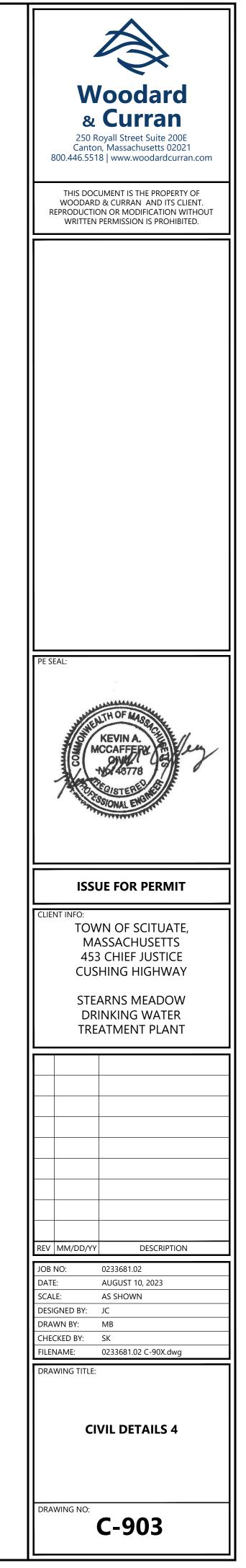
10'

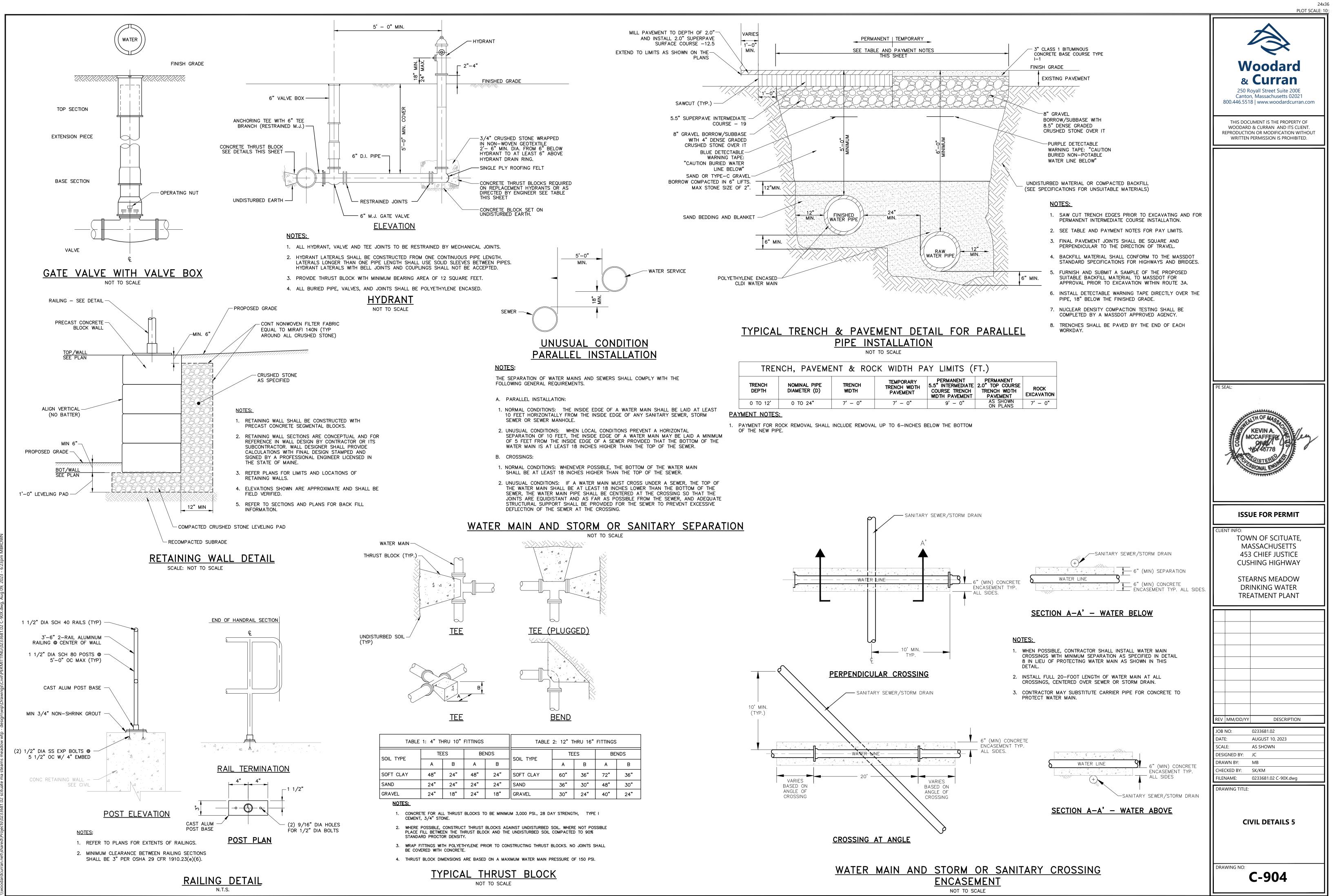
2'

5'

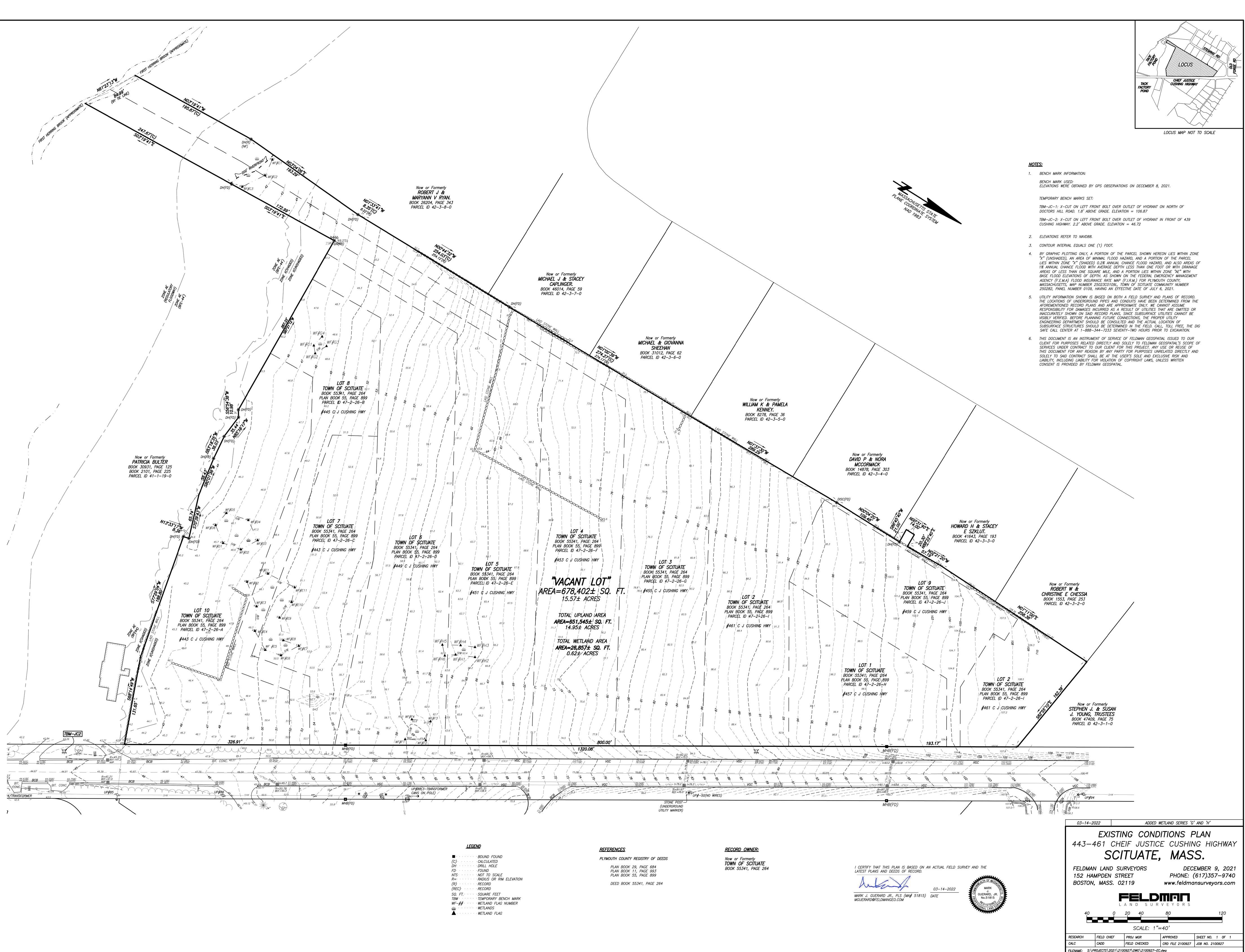
8'

24x36 PLOT SCALE: 10::

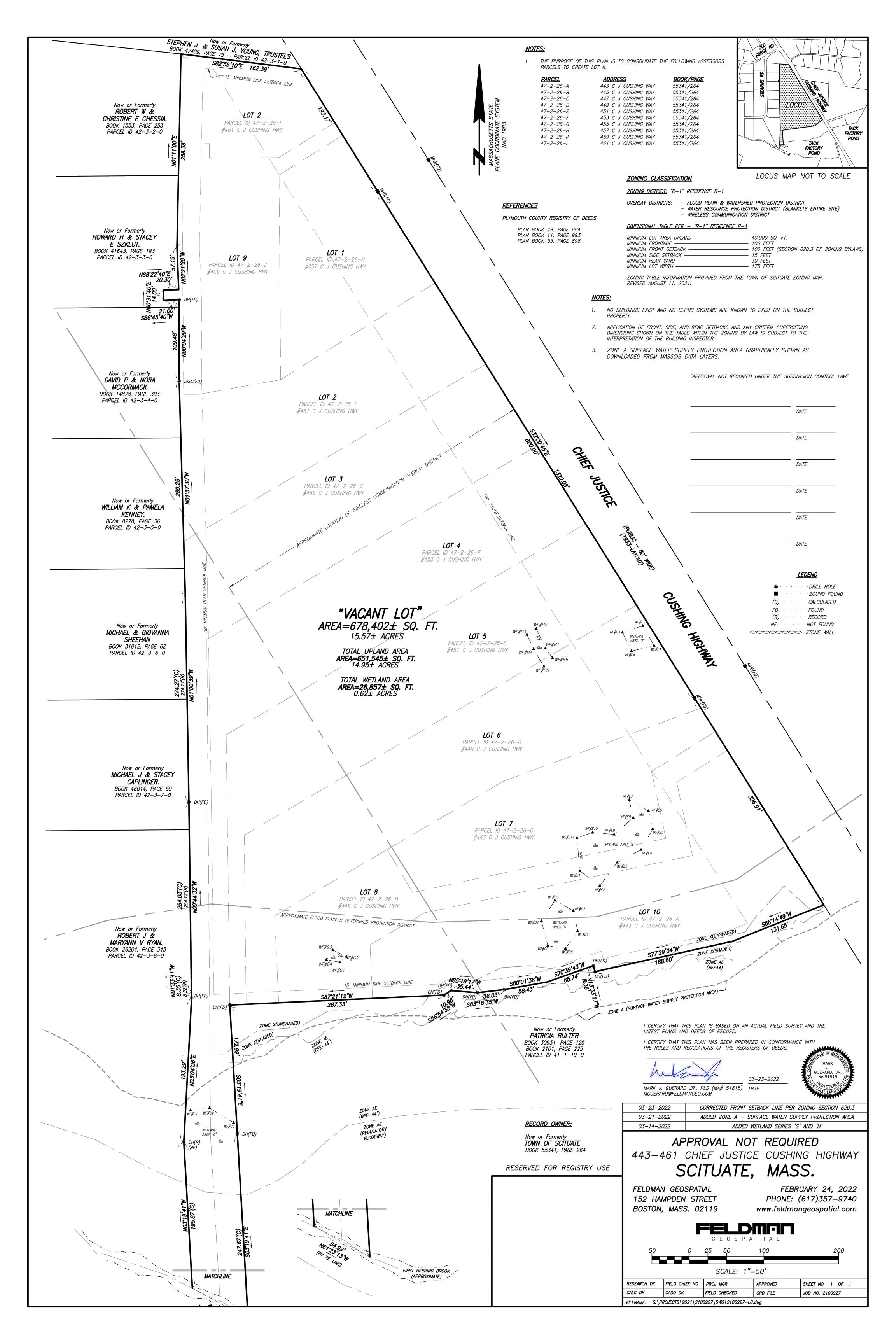


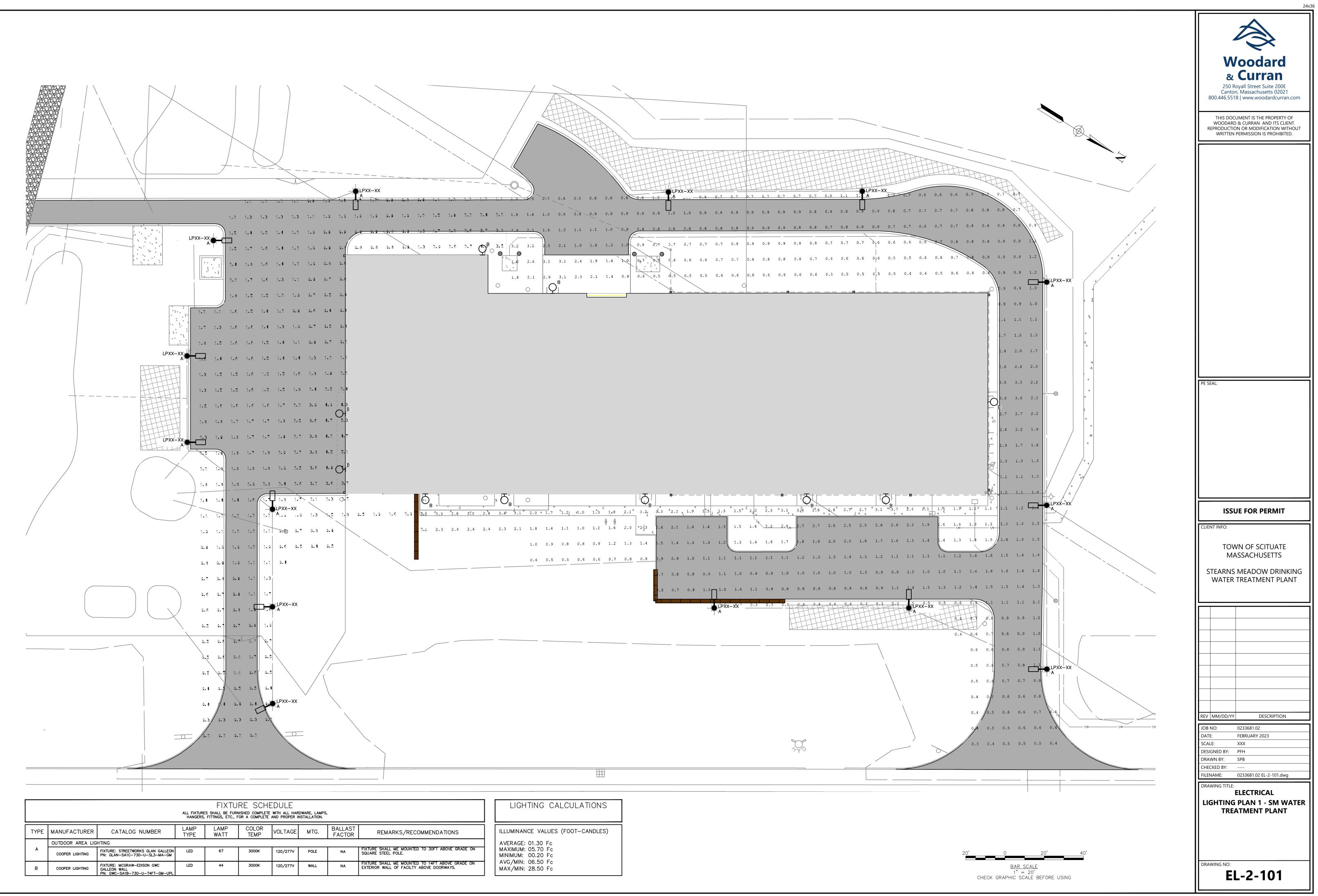


THRU 10" FITTINGS		TABLE 2: 12" THRU 16" FITTINGS						
TEES BENDS		SOIL TYPE	TEES		BENDS			
	В	A	В	SUL TIPE	А	В	А	В
	24"	48"	24"	SOFT CLAY	60 <b>"</b>	36"	72"	36"
	24"	24"	24"	SAND	36"	30"	48"	30"
	18"	24"	18"	GRAVEL	30"	24"	40"	24"











	LIGHTING CALCULATIONS
ATIONS	ILLUMINANCE VALUES (FOOT-CANDLES)
ABOVE GRADE ON	AVERAGE: 01.30 Fc MAXIMUM: 05.70 Fc MINIMUM: 00.20 Fc
ABOVE GRADE ON ORWAYS.	AVG/MIN: 06.50 Fc MAX/MIN: 28.50 Fc

# PLANTING NOTES

- 1. NO SUBSTITUTIONS OF PLANT SPECIES WITHOUT CONTRACTOR SUBMITTAL APPROVAL BY OWNER'S REPRESENTATIVE
- 2. LOCATE AND VERIFY UTILITY LINE LOCATIONS PRIOR TO STAKING AND REPORT
- CONFLICT TO OWNER'S REPRESENTATIVE. 3. NO PLANTING TO BE INSTALLED BEFORE ACCEPTANCE OF ROUGH GRADING.
- 4. ALL PROPOSED TREE LOCATIONS SHALL BE STAKED OR LAID OUT IN THEIR APPROXIMATE LOCATION BY THE CONTRACTOR. REFER TO LAYOUT AND PLANTING SHEETS FOR LAYOUT INFORMATION. THE CONTRACTOR SHALL ADJUST THE LOCATIONS AS REQUESTED BY THE OWNER'S REPRESENTATIVE ACCOUNT FOR SUBSURFACE UTILITIES AND OTHER FIELD CONDITIONS. FINAL LOCATIONS OF ALL PLANTS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
- THE TIME OF PLANTING FOR FIELD LAYOUT BY OWNER'S REPRESENTATIVE. NO PARTIAL LAYOUT AND PLANTING OF AREAS WILL BE ACCEPTABLE.
- 6. INSTALL PLANTS WITH ROOT FLARES FLUSH WITH FINISHED GRADE. IMMEDIATELY REPLANT PLANTS THAT SETTLE OUT OF PLUMB OR BELOW FINISHED GRADE.
- 7. LOOSE OR CRACKED ROOT BALLS ARE UNACCEPTABLE.
- 8. REMOVE WIRE BASKETS ENTIRELY. REMOVE BURLAP ENTIRELY. SYNTHETIC BURLAP WILL NOT BE ACCEPTED. FOR CONTAINER PLANTS, REMOVE CONTAINER AND SCARIFY EDGES OF ROOT BALL 1/2" DEEP IN A MINIMUM OF FOUR LOCATIONS.
- 9. RAISE AND REPLANT PLANTS THAT SETTLE AFTER PLANTING AND WATERING.
- 10. ALL MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN AS WELL AS THE TECHNICAL AND PLANTING REQUIREMENTS AS PART OF THIS PROJECT. (WWW.AMERICANHORT.ORG).
- 11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING AND IRRIGATING ALL PLANTINGS INSTALLED AS PART OF THIS PROJECT DURING THE ENTIRETY OF THE WARRANTY PERIOD TO ENSURE PLANT HEALTH AND LIMIT DIE-OFF.

# INSTALLATION: WETLAND AND OTHER RESOURCE AREAS

PLANT PLUGS: PLUGS DIRECTLY INTO SOIL FOLLOWING SOIL PREPARATION IF REQUIRED **ROOT BALLS:** HOLE DEPTH SHALL BE THE EQUAL TO THE HEIGHT OF THE ROOT BALL. THE BASE OF THE PLANT PLANT STEM OR TRUNK SHALL BE LEVEL WITH THE SURROUNDING GROUND. THE HOLE SHALL BE (3) TIMES THE DIAMETER OF THE ROOT BALL.

- 13. THE CONTRACTOR SHALL MONITOR AND INSPECT RESTORATION PLANTINGS DURING ESTABLISHMENT PERIOD, ENSURE REGULAR IRRIGATION IS PROVIDED, KEEP PLANTINGS 1. AND ENSURE PLANTING AREAS ARE FREE OF WEEDS AND INVASIVE PLANTS.
- 15. EROSION CONTROL WILL BE INSTALLED AS REQUIRED IN PROJECT SPECIFICATIONS AND EROSION CONTROL PLAN BY CONTRACTOR PRIOR TO ALL PLANT INSTALLATION.

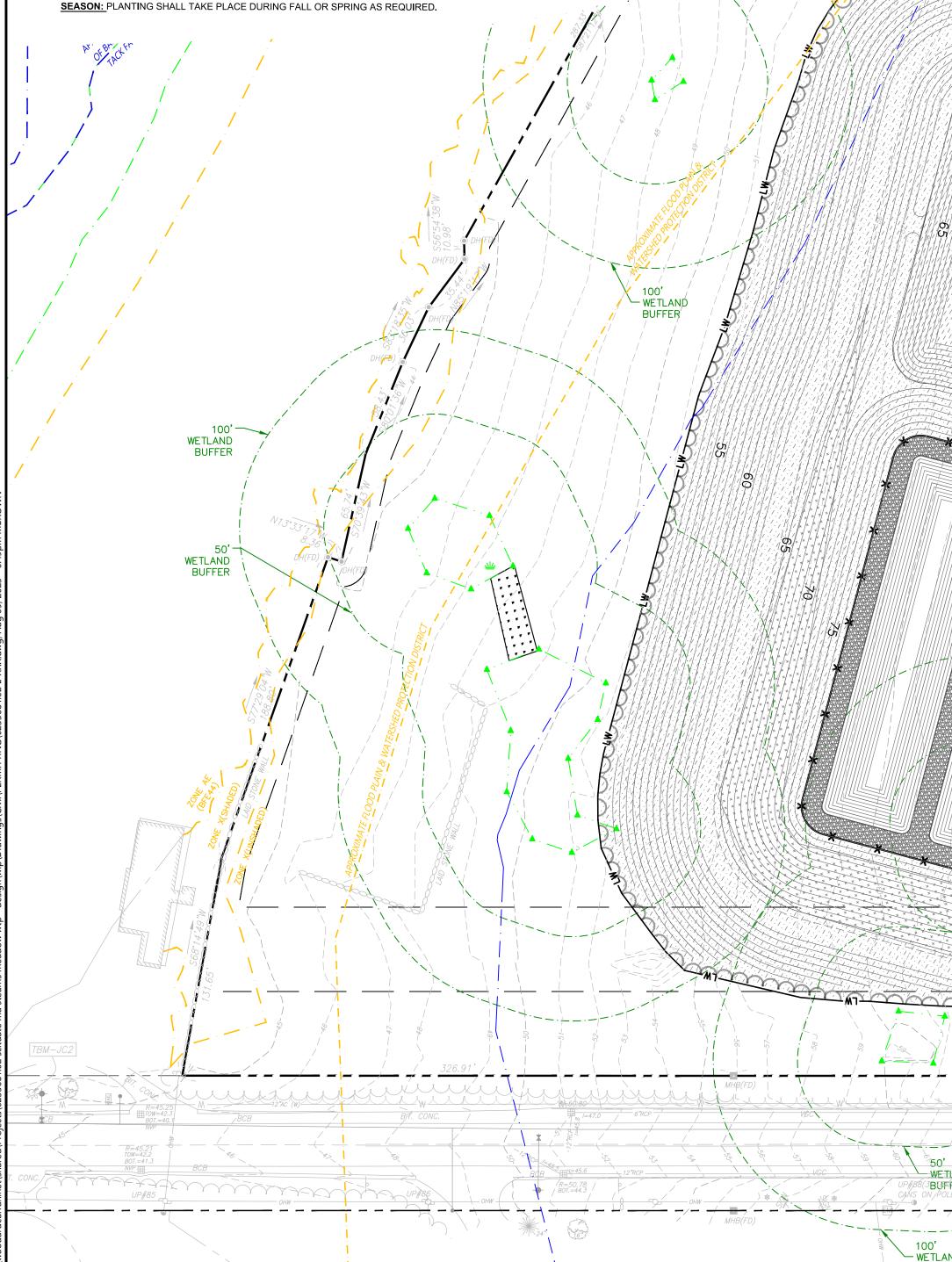
- 16. STEEP SLOPES 3:1 OR GREATER WILL REQUIRE INSTALLATION OF BIO-DEGRADABLE EROSION CONTROL FABRIC; SUCH AS COIR MESH, COCONUT FIBER, MAY BE USED AS TEMPORARY EROSION CONTROL PRIOR TO PLANT ROOT ESTABLISHMENT. CONTRACTOR 4. MUST SUBMIT EROSION CONTROL FOR APPROVAL BY PROJECT ENGINEER PRIOR TO INSTALLATION OR AS REQUIRED BY PROJECT DOCUMENTS.
- 5. TOTAL QUANTITY OF PLANTS FOR EACH AREA TO BE AVAILABLE ON SITE AT AND ALL ALL VEHICLE ACCESS BY USING A SINGLE DESIGNATED WALKWAY, FENCED OFF WITH SILT OR TEMPORARY CONSTRUCTION FENCING. WALKWAY AND FENCING INSTALLED WILL SITE PROTECTIONS. PLANT INSTALLATION SHALL FOLLOW PLANTING PLAN LAYOUT, UNLESS SPECIFIED BY PROJECT ENGINEER / LANDSCAPE ARCHITECT.
  - 19. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING OR REPLACING ALL PLANTINGS OR OTHER LANDSCAPE MATERIALS THAT DO NOT MEET PROJECT REQUIREMENTS, ARE DAMAGED OR DEAD.

# SOIL PREPARATION

<u>COMPOST:</u> THE CONTRACTOR SHALL MODIFY EXISTING SOIL BY SPREADING 3-4 INCHES OR COMPOST OVER THE SURFACE OF THE SOIL AND TILL INTO THE TOP 6 INCHES OF SOIL PRIOR TO ALL PLANT INSTALLATION AS REQUIRED PROJECT SPECIFICATIONS.COMPOST PRODUCTS MUST MEET COMPOSITION PRE-APPROVAL REQUIREMENTS OUTLINED IN PROJECT SPECIFICATIONS.

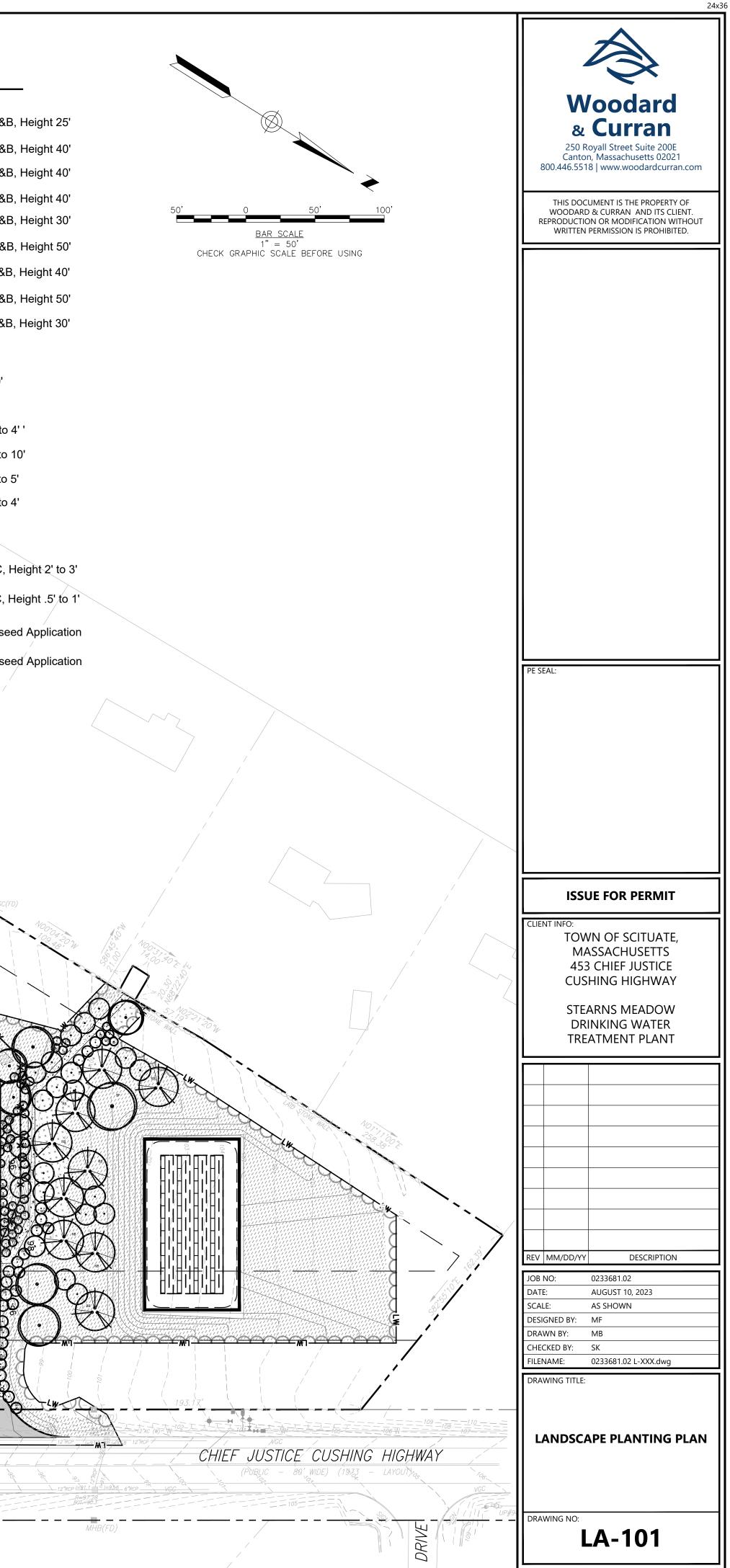
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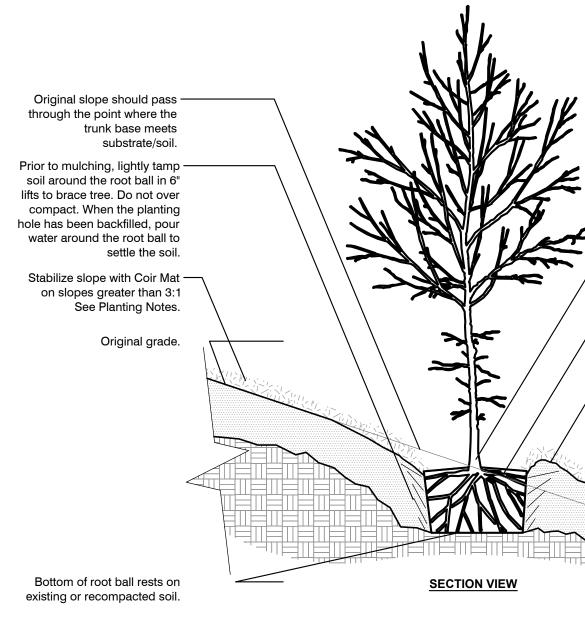
2. <u>WATER SOLUBLE SLOW RELEASE FERTILIZERS SHALL BE APPLIED IN</u> ACCORDANCE WITH PROJECT SPECIFICATIONS.



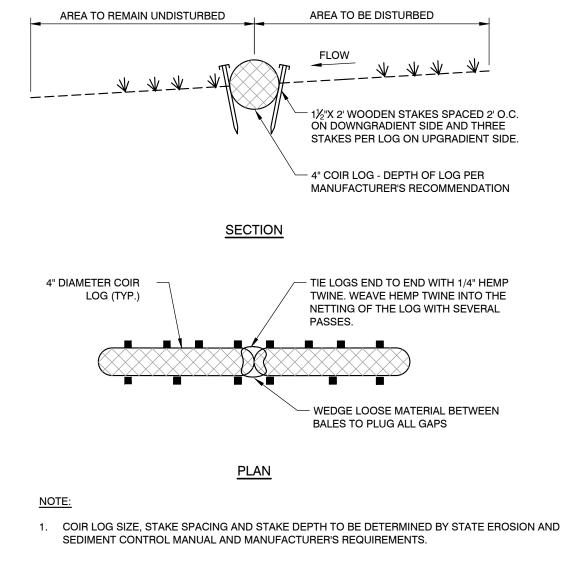
# PLANTING LIST

	FLAN	IIING			
LANDSCAPE MAINTENANCE DURING ESTABLISHMENT PERIOD:	QTY	SYM	COMMON NAME	SIZE	NOTES
IGS 1. WATERING: CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING IRRIGATION SCHEDULE FOR ALL NEW PLANTING AS	TREES				
APPROVED BY OWNER'S REPRESENTATIVE OR PROJECT ENGINEER/ L.A. 2. CONTRACTOR SHALL PROVIDE EITHER TEMPORARY AUTOMATED SYSTEMS OR MANUAL IRRIGATION AS SPECIFIED IN CONTRACT		RB	River Birch / Betula nigra	2" to 3" C/	AL B&B,
REQUIREMENTS THROUGHOUT ENTIRE ESTABLISHMENT PERIOD. 3. ESTABLISHMENT PERIODS WILL EXTEND OVER EITHER (6)MONTHS, (1) YR. OR	$(\cdot)$	BF	Balsam Fir / Abies balsamea	2" to 3" C	AL B&B,
<ul> <li>(2) YR. PERIOD AS OUTLINED IN CONTRACT.</li> <li>IRRIGATION SYSTEMS ARE TO BE OPERATIONAL &amp; MAINTAINED FROM APRIL THROUGH OCT. DURING ESTABLISHMENT &amp; MAINTAINED BY CONTRACTOR.</li> </ul>	$\odot$	BH	Bitternut Hickory / Carya cordiformis	2" to 3" C/	AL B&B,
<ol> <li>REGULAR INVASIVE PLANT REMOVAL: CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF WEED OR INVASIVE SPECIES ENCROACHMENT THOUGH OUT ESTABLISHMENT.</li> </ol>	$\overline{\bigcirc}$	HB	Hackberry / Celtis occidentails	2" to 3" C/	AL B&B,
<ol> <li>BANK STABILIZATION AND PREVENTING OF SOIL/SLOPE EROSION; CONTRACTOR IS RESPONSIBLE FOR CORRECTING &amp; MONITORING</li> </ol>	$\overline{(\cdot)}$	BA	Black Ash / Fraxinus	2" to 3" C	AL B&B,
THROUGHOUT PERIOD. 7. MAINTAIN TREE PROTECTIONS, STAKES AND PLANT TIES OR RETAINING STRUCTURES AS REQUIRED.	$(\cdot)$	WP	White Pine / Pinus strobus	2" to 3" C	AL B&B,
MULCH	$\overline{\mathbf{O}}$	BO	Bur Oak / Quercus macrocarpa	2" to 3" C	AL B&B,
<ol> <li>APPLY MULCH ONLY IN AREAS INDICATED IN PROJECT DOCUMENTS. MULCH SHALL NOT BE APPLIED TO SEDIMENT AREAS, DUNES, AQUATIC OR</li> </ol>	$(\cdot)$	SM	Silver Maple / Acer saccharinum	2" to 3" C	CAL B&B,
WETLAND AREAS. 2. ALL MULCH PRODUCTS MUST BE APPROVED BY PROJECT ENGINEER OR OWNER'S REP. PRIOR TO APPLICATION.	$\overline{(\cdot)}$	RM	Red Maple / Acer rubrum	2" to 3" C	AL B&B,
3. ALL TREE AND SHRUB PLANTINGS SHALL BE MULCHED AROUND THE ROOT ZONE TO A DEPTH OF 3-4 INCHES.	SHRUBS				
	$\bigotimes$	SB	Shadbush / Amelanchier	5 GAL, H	leight 20'
	Č	IB	Inberry / Illex Glabra	5 GAL, H	leight 3'
	$\odot$	BB	Bayberry / Myrica	5 GAL, H	leight 2' to 4'
	Ō				leight 5' to 10
	Ō	WH AZ	Witchhazel / Hamamelis virginiana Azalea / Azalea		eight 3' to 5'
	O	HB	High Bush Blueberry / Vaccinium c.		leight 2' to 4'
	GROUND C	OVER, FEF	RNS, PERENNIALS		
			Low Native Shrub Plant Mix	3 GAL	24" OC, He
			Native Groundcover Plant Mix	2 QT	18" OC, He
					Hydropoor
		~	Erosion Control / Native Meadow Seed Mix	5lbs	Hydroseed
			Wetland Grass & Forb - Green Infrastructure Seed Mix	5lbs	Hydroseed
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50' 50' 50' 50' 50' 50' 50' 50' 50' 50'	15 76 11 VGC	6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6	2 51 22 KeV 8 52 8 65 85 85 12 KeV 1 1	9.92	4 9 9 1
UP#86(3BUPFAERRMÉR CANS ON/POLE)			$\frac{R=81.97}{B0I=750}  \square P \#-50(NO \ WIRES)$		
100'			STONE POST —) (UNDERGROUND UTILITY MARKER)		
WETLAND BUFFER					







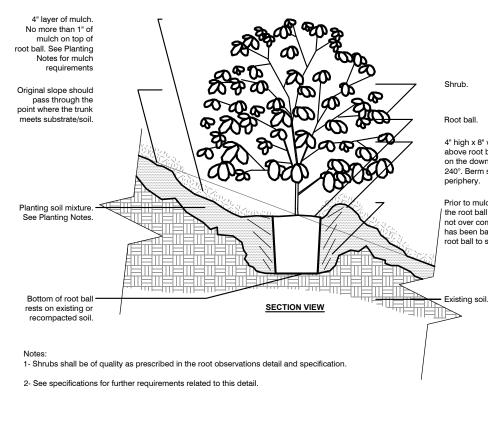






Each tree must be planted such that trunk flare is visible at top of root ball. Do not cover top of root ball. \_ 3-4 inch layer of mulch. Do not place mulch in contact with trunk. See Planting Notes for mulch requirements. Round-topped soil berm 4" high x 8" wide above root ball surface shall be centered on the downhill side of the root ball for 240°. Berm shall begin at root ball periphery.

- Compost mixed with existing soil. Depth will be equal to root ball size. Set top of root ball flush to grade or 1-2 inches higher than than surrounding soils. See compost planting notes





SHRUB PLANTING SCALE N.T.S

# AREA TO BE DISTURBED

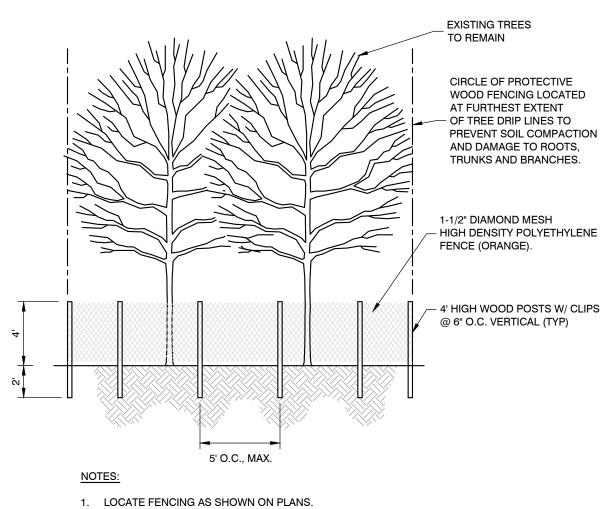
# - 1½"X 2' WOODEN STAKES SPACED 2' O.C. ON DOWNGRADIENT SIDE AND THREE STAKES PER LOG ON UPGRADIENT SIDE.

- 4" COIR LOG - DEPTH OF LOG PER MANUFACTURER'S RECOMMENDATION

# - TIE LOGS END TO END WITH 1/4" HEMP TWINE. WEAVE HEMP TWINE INTO THE

NETTING OF THE LOG WITH SEVERAL

- WEDGE LOOSE MATERIAL BETWEEN BALES TO PLUG ALL GAPS



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



<b>8</b> 250 F Canto	<b>Solution</b> <b>Solution</b> <b>Solution</b> <b>Royall Street Suite 200E</b> on, Massachusetts 02021 18   www.woodardcurran.com
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	UE FOR PERMIT
M/ 45	VN OF SCITUATE, ASSACHUSETTS 3 CHIEF JUSTICE SHING HIGHWAY
DR	ARNS MEADOW RINKING WATER EATMENT PLANT
REV MM/DD/YY	
JOB NO: DATE:	0233681.02 AUGUST 10, 2023
SCALE: DESIGNED BY:	AS SHOWN MF
DRAWN BY: CHECKED BY:	MB SK 0222001.02 L XXX due
FILENAME: DRAWING TITLE:	0233681.02 L-XXX.dwg
PLA	NTING DETAILS
DRAWING NO:	
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24x36

4" high x 8" wide round - topped soil berm above root ball surface shall be centered on the downhill side of the root ball for 240°. Berm shall begin at root ball percenters

Prior to mulching, lightly tamp soil around the root ball in 6" lifts to brace shrub. Do not over compact. When the planting hole has been backfilled, pour water around the root ball to settle the soil.

