

HIGH STREET DRAINAGE IMPROVEMENTS

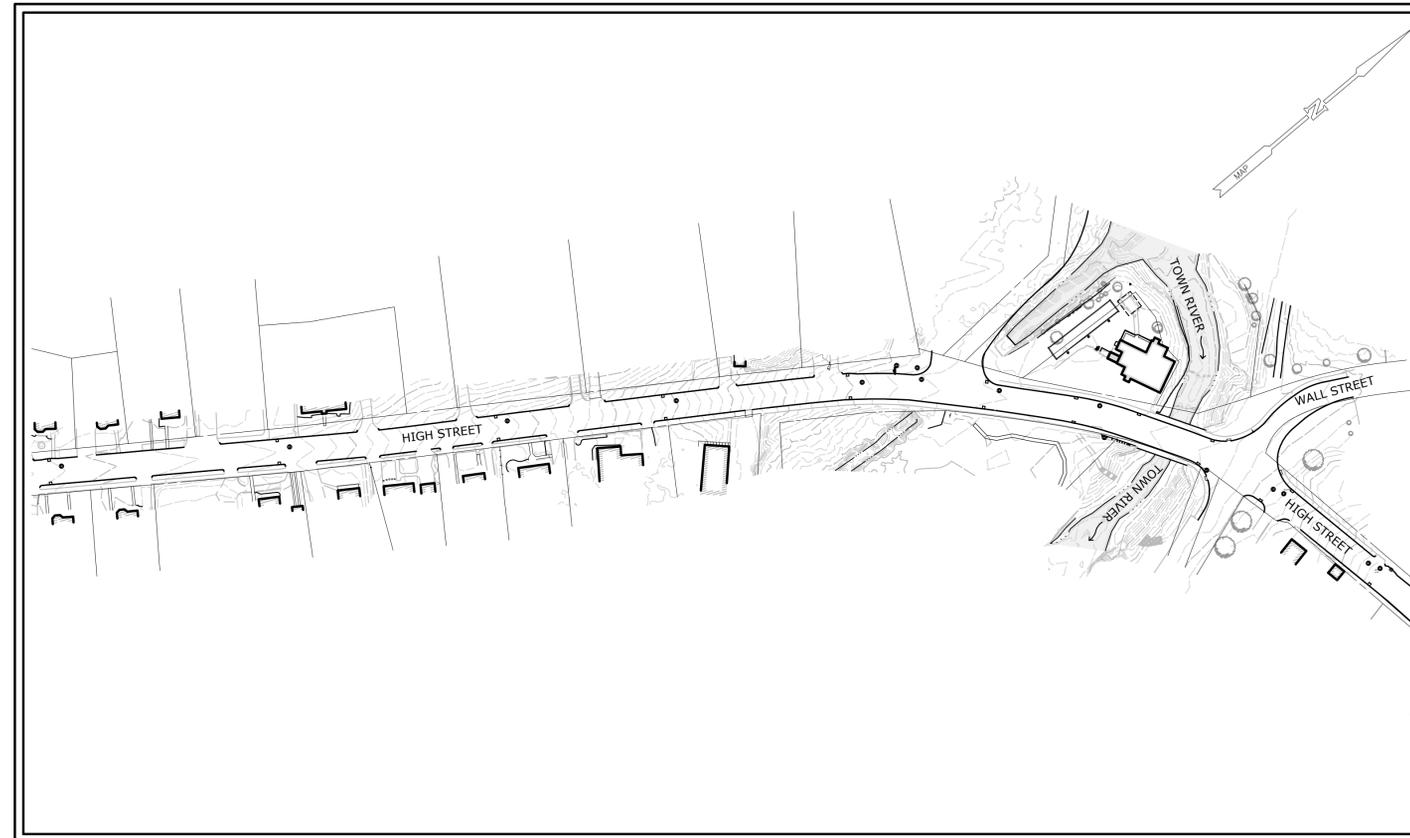
HIGH STREET BRIDGEWATER, MASSACHUSETTS

CONSTRUCTION PLANS
JUNE 6, 2025



LOCATION MAP:

SCALE 1" = 1500'



PROJECT SITE VICINITY MAP:

SCALE 1" = 100'

PREPARED FOR:
TOWN OF BRIDGEWATER
66 CENTRAL SQUARE
BRIDGEWATER, MA 02324

LIST OF DRAWINGS

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PREPARED BY:

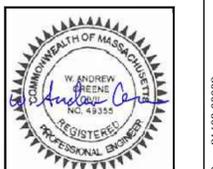


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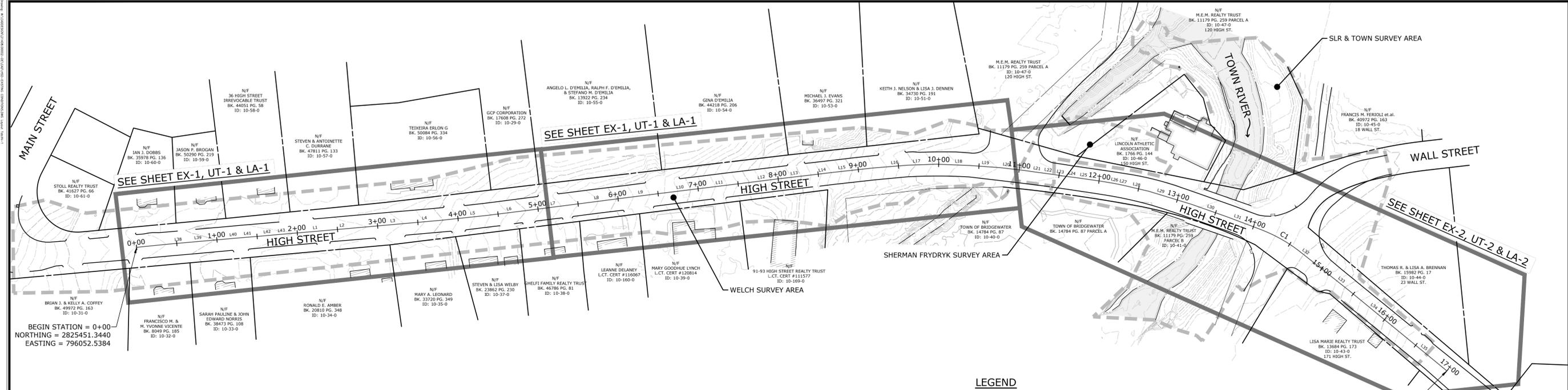
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W. Andrew Greene



P.E. MA# 49355

SLR NO.: 21408.00002
SUBMITTED: JUNE 6, 2025



BEGIN STATION = 0+00
 NORTHING = 2825451.3440
 EASTING = 796052.5384

END STATION = 17+00
 NORTHING = 2826597.6700
 EASTING = 797213.7094

LEGEND

- SURVEY LIMITS, SEE NOTES
- PROPERTY BOUNDARIES
- EDGE OF ROAD/SIDEWALK
- BUILDINGS

**BASELINE GEOMETRY TABLE:
HIGH STREET**

SEGMENT NUMBER	SEGMENT LENGTH	CURVE RADIUS	LINE DIRECTION	CURVE CHORD DIRECTION	CURVE CHORD LENGTH
L38	29.4'		N34.9E		
L39	31.1'		N35.1E		
L40	25.3'		N34.9E		
L41	30.2'		N35.3E		
L42	25.3'		N34.9E		
L43	28.4'		N35.2E		
L1	30.6'		N35.1E		
L2	36.5'		N35.0E		
L3	64.1'		N35.0E		
L4	41.0'		N34.9E		
L5	56.6'		N34.0E		
L6	57.1'		N32.9E		
L7	52.3'		N32.7E		
L8	56.8'		N32.7E		
L9	53.3'		N32.8E		
L10	63.3'		N33.0E		
L11	25.6'		N33.0E		
L12	56.2'		N32.9E		
L13	40.4'		N33.4E		
L14	29.6'		N33.2E		
L15	48.7'		N33.8E		
L16	42.3'		N35.4E		
L17	35.8'		N38.0E		
L18	41.4'		N42.2E		
L19	37.9'		N44.1E		
L20	30.2'		N46.6E		
L21	14.9'		N48.0E		
L22	21.3'		N47.6E		
L23	9.2'		N49.3E		
L24	19.5'		N47.3E		
L25	29.8'		N48.2E		
L26	17.4'		N49.3E		
L27	10.9'		N51.8E		
L28	33.2'		N53.1E		
L29	55.4'		N56.9E		
L30	46.8'		N59.4E		
L31	43.7'		N60.5E		
C1	59.3'	188.4'	N69° 41' 31.14"E	N69.7E	59.0'
L32	30.9'		N78.2E		
L33	45.0'		N78.3E		
L34	114.2'		N79.3E		
L35	41.5'		N79.3E		

SURVEY STAKEOUT NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND/OR TRANSFERRING ALL BENCHMARKS AS NEEDED TO COMPLETE THE WORK. BENCHMARKS WITHIN THE WORK LIMITS THAT NEED TO BE TRANSFERRED OR RESET SHALL BE DONE SO PRIOR TO THE START OF EXCAVATION OR CONSTRUCTION WORK.
- THE BENCHMARKS AND SURVEY CONTROL POINTS (CP) PROVIDED HEREIN ARE BASED ON INFORMATION DERIVED FROM THE ORIGINAL SURVEY(S) AND HAVE NOT BEEN VERIFIED BY SLR INTERNATIONAL CORPORATION (SLR) SINCE THESE POINTS ARE BEING FURNISHED FOR INFORMATIONAL PURPOSES ONLY AND THE USER OF THIS INFORMATION IS CAUTIONED TO VERIFY THE EXISTENCE OF, AND FIELD CHECK THE ACCURACY OF THESE POINTS PRIOR TO USE. THE USER IS CAUTIONED NOT TO RELY ON ITS ACCURACY. SLR DISCLAIMS ANY LIABILITY WHATSOEVER TO USER OF THIS DOCUMENT DUE TO LOST, DAMAGED AND/OR DISTURBED BENCHMARKS AND/OR CP'S. THERE ARE NO WARRANTIES, REPRESENTATIONS, EXPRESSED OR IMPLIED AND SLR CANNOT BE HELD RESPONSIBLE FOR ANY DISCREPANCIES THAT MAY ARISE.

MAPPING AND SURVEY NOTES:

SURVEY INFORMATION IS BASED ON A COMPILATION OF SURVEYS PERFORMED BY SLR INTERNATIONAL CORPORATION, THE TOWN OF BRIDGEWATER, SHERMAN & FRYDRYK, AND WELCH ASSOCIATES LAND SURVEYORS. REFER TO PLAN FOR SURVEY EXTENTS.

SLR INTERNATIONAL CORPORATION & TOWN OF BRIDGEWATER MAPPING AND SURVEY NOTES:

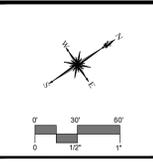
- TOPOGRAPHIC INFORMATION IS BASED UPON GROUND SURVEY PERFORMED BY SLR INTERNATIONAL CORPORATION (SLR) ON JULY 11, 2024.
- SURVEY OF DRAINAGE STRUCTURES IS BASED UPON GROUND SURVEY PERFORMED BY THE TOWN OF BRIDGEWATER ON MARCH 2, 2025.
- HORIZONTAL MAPPING IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), IN THE MASSACHUSETTS MAINLAND ZONE. ELEVATION DATA IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). ALL CONTOURS ARE PRESENTED IN FEET.
- SLR ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF MAPS AND DATA WHICH HAVE BEEN SUPPLIED BY OTHERS.
- LIDAR TOPOGRAPHY OUTSIDE THE LIMITS OF GROUND SURVEY PROVIDED BY MASS GIS 2013-2014 SANDY DATA SET AT 1' CONTOUR INTERVALS.
- PROPERTY BOUNDARY INFORMATION WAS PROVIDED IN GIS FORMAT, AND IS FOR INFORMATIONAL PURPOSES ONLY. ASSESSORS INFORMATION IS APPROXIMATE, AND SHOULD NOT BE CONSIDERED COMPLETE OR CURRENT FOR PURPOSES OF CONSTRUCTION AND/OR EASEMENT NEGOTIATION.
- INFORMATION REGARDING THE LOCATION OF EXISTING UTILITIES HAS BEEN BASED UPON AVAILABLE INFORMATION AND MAY BE INCOMPLETE, AND WHERE SHOWN SHOULD BE CONSIDERED APPROXIMATE. THE LOCATION OF ALL EXISTING UTILITIES SHOULD BE CONFIRMED PRIOR TO BEGINNING CONSTRUCTION. CONTACT "DIG SAFE MASSACHUSETTS" BY CALLING 811. ALL UTILITY LOCATIONS THAT DO NOT MATCH THE VERTICAL OR HORIZONTAL CONTROL SHOWN ON THE PLANS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION.
- ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR DETERMINATION.

SHERMAN & FRYDRYK MAPPING AND SURVEY NOTES:

- SURVEY INFORMATION IS BASED ON A FIELD SURVEY BY SHERMAN & FRYDRYK, LLC. DATED BETWEEN OCTOBER 4, 2018 AND OCTOBER 25, 2018.
- HORIZONTAL DATUM IS NAD83 AND WAS ESTABLISHED AT THIS SITE BY GPS METHODS.
- VERTICAL DATUM IS NAVD88. A BENCHMARK ON NG 16, AS SHOWN ON THIS PLAN, WAS PROVIDED BY MILONE & MACBROOM AND USED FOR THIS SURVEY. THE BENCHMARK IS A SPIKE FOUND ELEV. = 51.60.
- LOCATIONS OF UTILITIES SHOWN HEREON ARE THE RESULTS OF SURFACE EVIDENCE AS LOCATED BY FIELD SURVEY, PLANS OF RECORD, AND OTHER AVAILABLE SOURCES. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATIONS OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME WITHIN THE PREMISES SURVEYED.
- THE CONTRACTOR SHOULD VERIFY THE EXISTING CONDITIONS TO HIS SATISFACTION PRIOR TO BEGINNING ANY EXCAVATION. "DIG SAFE" SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO BEGINNING ANY WORK.

WELCH ASSOCIATES LAND SURVEYORS SURVEY NOTES:

- THE ELEVATIONS SHOWN ON THIS SURVEY ARE BASED ON THE FOLLOWING BENCHMARK: "BENCH TIE IN POLE NG 16", ELEVATION=51.60 (DATUM: NAVD 88). SAID BENCHMARK IS SHOWN ON PLAN ENTITLED: "EXISTING CONDITIONS, TOWN RIVER RESTORATION PROJECT, HIGH STREET, BRIDGEWATER, MASSACHUSETTS", DATED MARCH 15, 2019, PREPARED BY MILONE & MACBROOM.
- THE COORDINATES SHOWN ON THIS SURVEY ARE BASED ON THE NORTH AMERICAN DATUM OF 1983 (NAD83) IN THE MASSACHUSETTS MAINLAND ZONE. THE COORDINATES ARE BASED ON CONTROL POINTS PROVIDED (WITH COORDINATES) ON PLAN ENTITLED: "TOPOGRAPHIC SURVEY WORKSHEET, HIGH STREET DAM, FISH PASSAGE AND REMOVAL FEASIBILITY STUDY, HIGH STREET, BRIDGEWATER, MASSACHUSETTS", DATED MAY 04, 2017, PREPARED AND PROVIDED BY MILONE & MACBROOM.
- INVERTS, PIPE SIZES, AND PIPE CLASSIFICATIONS FOR SANITARY SEWER AND STORM DRAIN SYSTEMS, AS SHOWN HEREON, WERE DETERMINED BY INSPECTION AND MEASUREMENTS PERFORMED AT GROUND SURFACE LEVEL (STRUCTURES WERE NOT PHYSICALLY ENTERED). THE RESULTS OF THE INSPECTIONS AND MEASUREMENTS MAY VARY FROM ACTUAL CONDITIONS AS COULD BE DETERMINED BY EXCAVATION OR USE OF CONFINED SPACE ENTRY PERSONNEL AND/OR EQUIPMENT. UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE TAKEN FROM AVAILABLE RECORD AND FIELD INFORMATION AND ARE APPROXIMATE ONLY. CONTACT DIG-SAFE BEFORE PLANNING ANY CONSTRUCTION.
- PROJECT BENCHMARK "A" RAILROAD SPIKE SET IN EAST FACE OF UTILITY POLE #8 ON EAST SIDE OF HIGH STREET OPPOSITE HOUSE #82 ELEV=69.38 (DATUM NAVD 88.) PROJECT BENCHMARK "B" XCUT SET ON HYDRANT BONNET BOLT ADJACENT TO LETTER "R" IN "MUELLER" ELEV=91.28 (DATUM NAVD 88.) PROJECT BENCHMARK "C" RAILROAD SPIKE SET IN EAST FACE OF NET&T UTILITY POLE #2-1 AT NORTHEAST CORNER OF HIGH STREET & MAIN STREET INTERSECTION ELEV=101.98 (DATUM NAVD 88.)

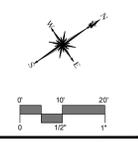


DESCRIPTION	DATE	BY

CONSTRUCTION PLANS

HIGH STREET DRAINAGE IMPROVEMENTS
HIGH STREET
BRIDGEWATER, MASSACHUSETTS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED
SCALE: 1"=60'		
DATE: JUNE 6, 2025		
PROJECT NO: 21408.00002		
SHEET NO: 02 OF 12		
IN-1		



DESCRIPTION	DATE	BY

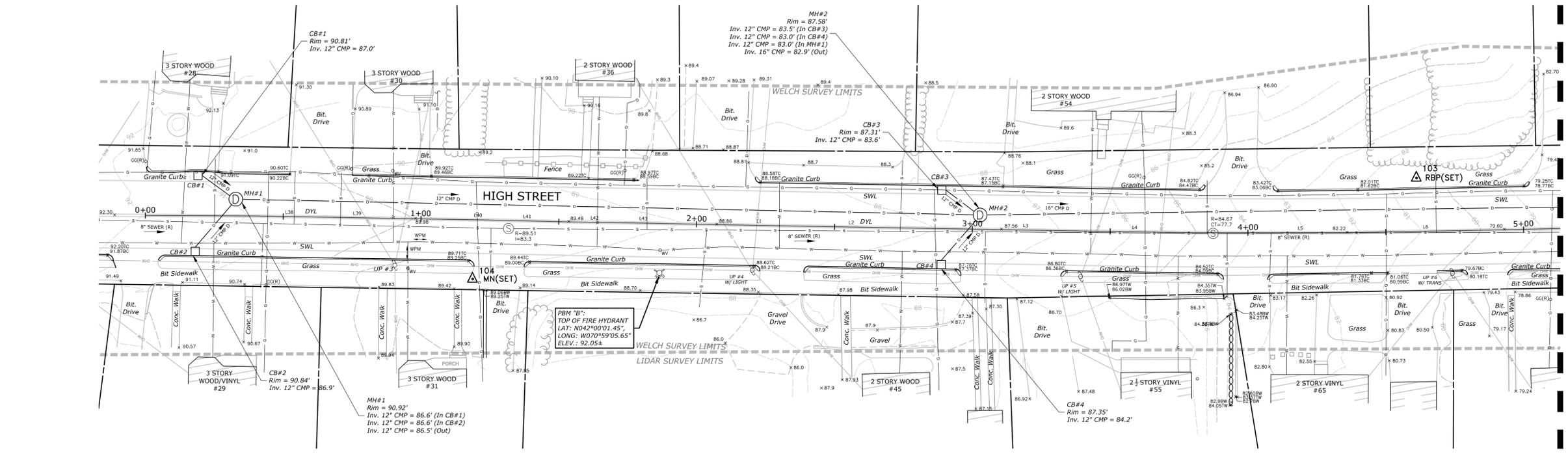
CONSTRUCTION PLANS

EXISTING CONDITIONS
 HIGH STREET DRAINAGE IMPROVEMENTS
 HIGH STREET
 BRIDGEWATER, MASSACHUSETTS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: JUNE 6, 2025		
PROJECT NO: 21408.00002		
SHEET NO: 03 OF 12		

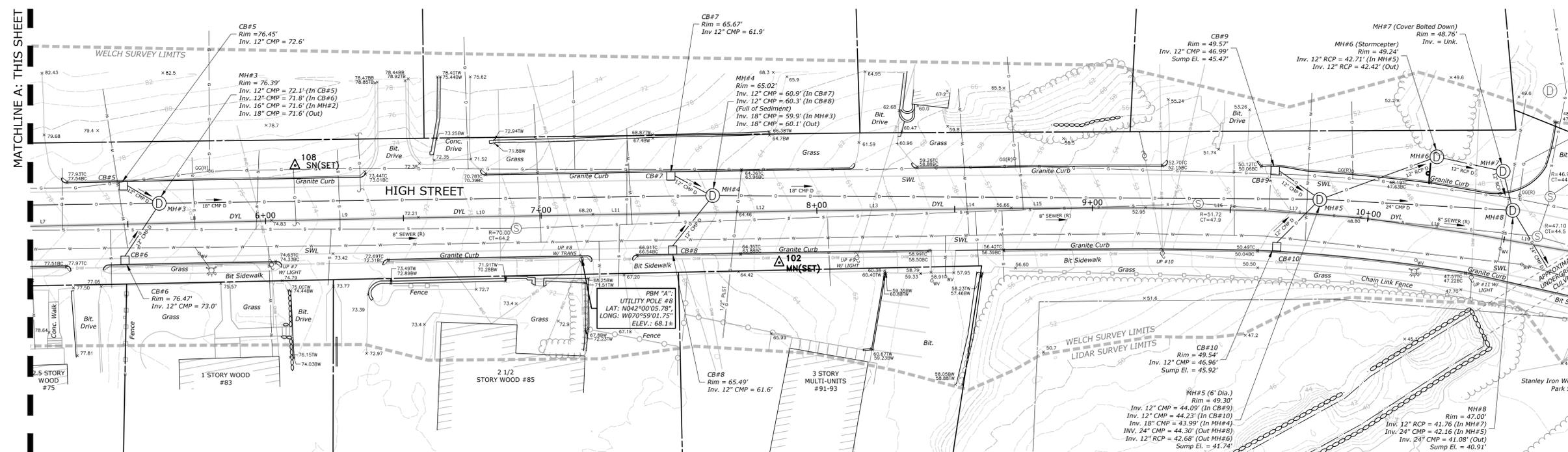
EX-1

MATCHLINE A: THIS SHEET



MATCHLINE A: THIS SHEET

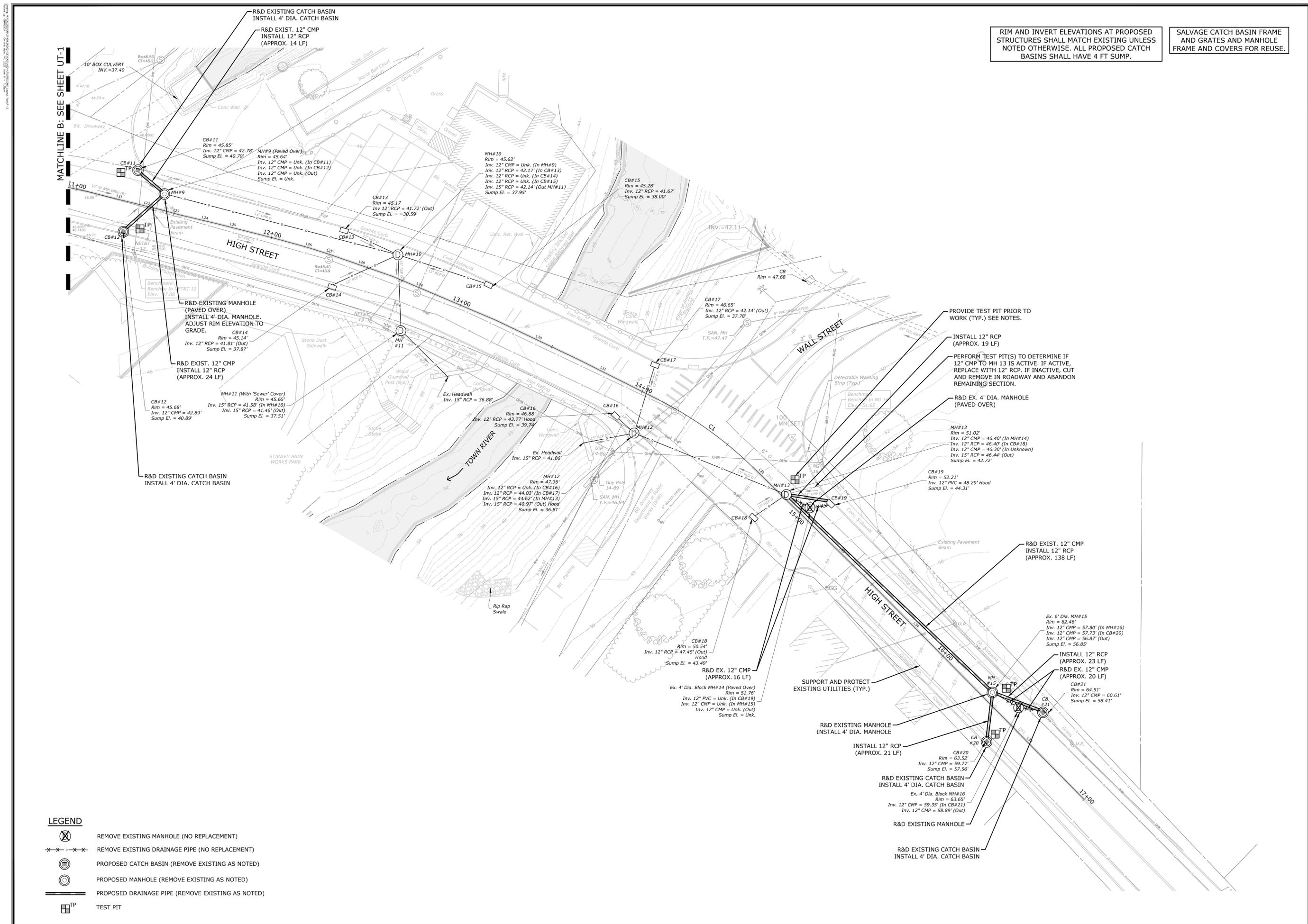
MATCHLINE A: THIS SHEET



MATCHLINE B: SEE SHEET EX-2

LEGEND

	SURVEY LIMITS, SEE NOTES		WATER VALVE
	PROPERTY BOUNDARIES		HYDRANT
	EDGE OF ROAD/SIDEWALK		UTILITY POLE
	EXISTING MAJOR CONTOUR		SANITARY SEWER MANHOLE
	EXISTING MINOR CONTOUR		DRAINAGE MANHOLE
	SANITARY SEWER		CATCH BASIN
	OVERHEAD WIRE		CONTROL POINT
	DRAINAGE		GAS GATE
	WATER		SIGN
	GAS		LIGHT POLE
	TREELINE		TREE
	WALL		TOP OF CURB ELEVATION
	FENCE		BOTTOM OF CURB ELEVATION
	DOUBLE YELLOW LINE (DYL)		BUILDINGS
	SINGLE WHITE LINE (SWL)		



RIM AND INVERT ELEVATIONS AT PROPOSED STRUCTURES SHALL MATCH EXISTING UNLESS NOTED OTHERWISE. ALL PROPOSED CATCH BASINS SHALL HAVE 4 FT SUMP.

SALVAGE CATCH BASIN FRAME AND GRATES AND MANHOLE FRAME AND COVERS FOR REUSE.



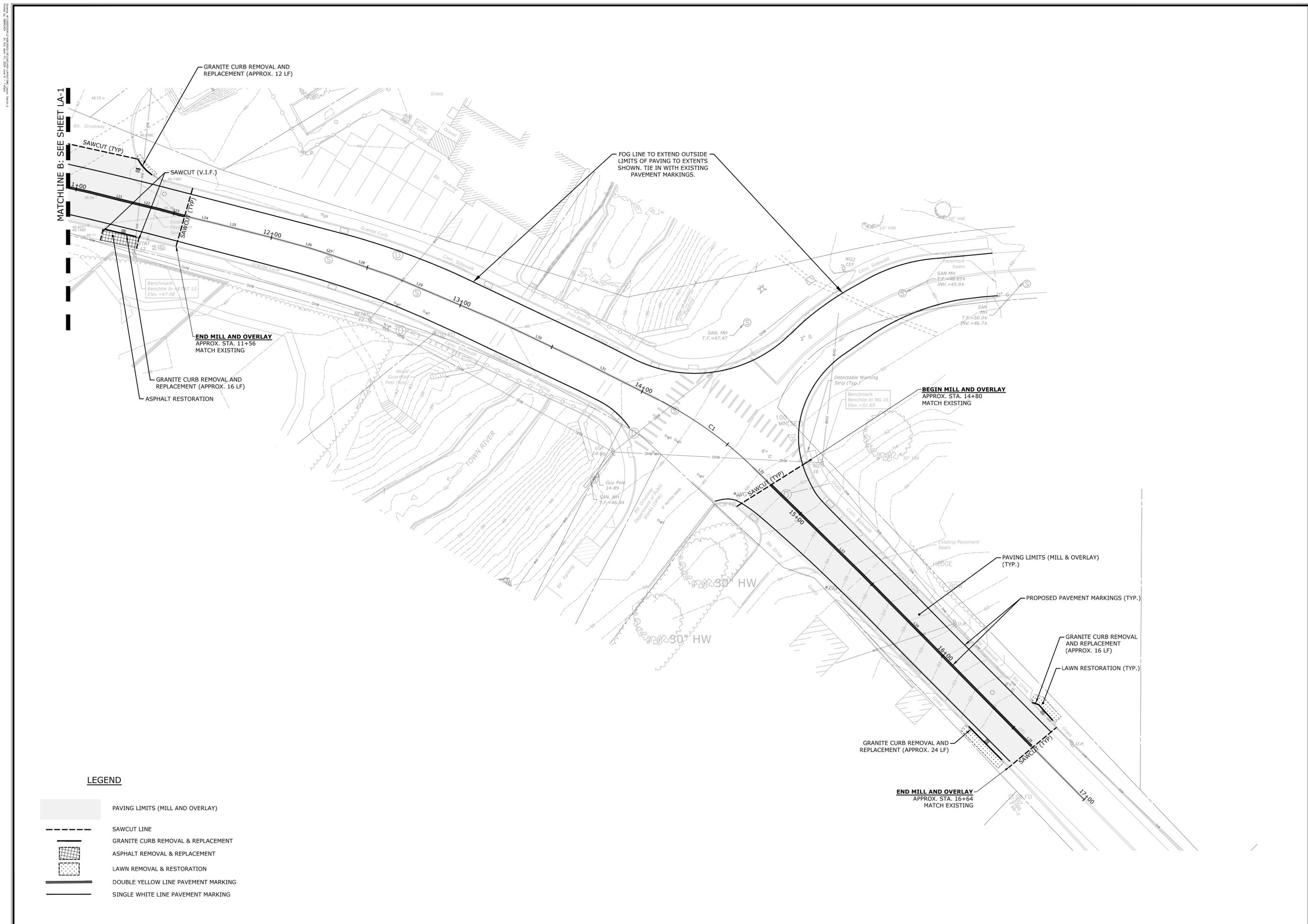
DESCRIPTION	DATE	BY

CONSTRUCTION PLANS

UTILITY PLAN
HIGH STREET DRAINAGE IMPROVEMENTS
HIGH STREET
BRIDGEWATER, MASSACHUSETTS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: JUNE 6, 2025		
PROJECT NO: 21408.00002		
SHEET NO: 06 OF 12		

UT-2



MATCHLINE B: SEE SHEET LA-1

GRANITE CURB REMOVAL AND REPLACEMENT (APPROX. 12 LF)

FOG LINE TO EXTEND OUTSIDE LIMITS OF PAVING TO EXTENTS SHOWN. TIE IN WITH EXISTING PAVEMENT MARKINGS.

END MILL AND OVERLAY APPROX. STA. 11+56 MATCH EXISTING

GRANITE CURB REMOVAL AND REPLACEMENT (APPROX. 16 LF)
ASPHALT RESTORATION

BEGIN MILL AND OVERLAY APPROX. STA. 14+80 MATCH EXISTING

PAVING LIMITS (MILL & OVERLAY) (TYP.)

PROPOSED PAVEMENT MARKINGS (TYP.)

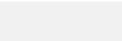
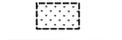
GRANITE CURB REMOVAL AND REPLACEMENT (APPROX. 16 LF)

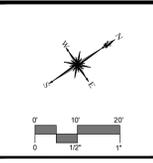
LAWN RESTORATION (TYP.)

GRANITE CURB REMOVAL AND REPLACEMENT (APPROX. 24 LF)

END MILL AND OVERLAY APPROX. STA. 16+64 MATCH EXISTING

LEGEND

-  PAVING LIMITS (MILL AND OVERLAY)
-  SAWCUT LINE
-  GRANITE CURB REMOVAL & REPLACEMENT
-  ASPHALT REMOVAL & REPLACEMENT
-  LAWN REMOVAL & RESTORATION
-  DOUBLE YELLOW LINE PAVEMENT MARKING
-  SINGLE WHITE LINE PAVEMENT MARKING




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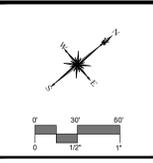
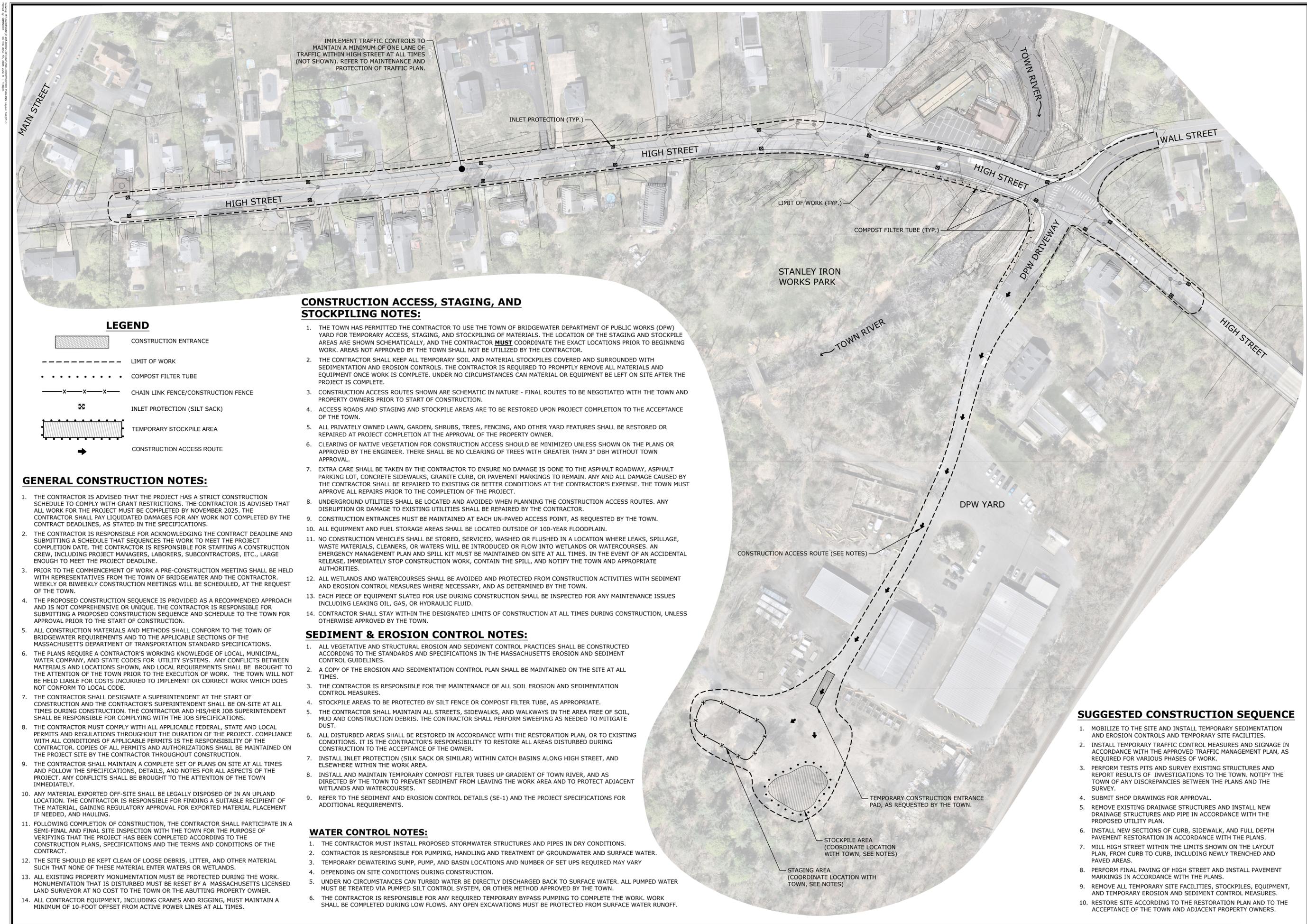
DESCRIPTION	DATE	BY

LAYOUT & RESTORATION PLAN
HIGH STREET DRAINAGE IMPROVEMENTS
 HIGH STREET
 BRIDGEWATER, MASSACHUSETTS

CONSTRUCTION PLANS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED
SCALE: 1"=20'		
DATE: JUNE 6, 2025		
PROJECT NO.: 21408.00002		
SHEET NO.: 08 OF 12		

LA-2



DESCRIPTION	DATE	BY

CONSTRUCTION PLANS

CONSTRUCTION PLAN
HIGH STREET DRAINAGE IMPROVEMENTS
HIGH STREET
BRIDGEWATER, MASSACHUSETTS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED
SCALE: 1"=60'		
DATE: JUNE 6, 2025		
PROJECT NO.: 21408.00002		
SHEET NO.: 09 OF 12		
CP-1		

CONSTRUCTION ACCESS, STAGING, AND STOCKPILING NOTES:

- THE TOWN HAS PERMITTED THE CONTRACTOR TO USE THE TOWN OF BRIDGEWATER DEPARTMENT OF PUBLIC WORKS (DPW) YARD FOR TEMPORARY ACCESS, STAGING, AND STOCKPILING OF MATERIALS. THE LOCATION OF THE STAGING AND STOCKPILE AREAS ARE SHOWN SCHEMATICALLY, AND THE CONTRACTOR **MUST** COORDINATE THE EXACT LOCATIONS PRIOR TO BEGINNING WORK. AREAS NOT APPROVED BY THE TOWN SHALL NOT BE UTILIZED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL KEEP ALL TEMPORARY SOIL AND MATERIAL STOCKPILES COVERED AND SURROUNDED WITH SEDIMENTATION AND EROSION CONTROLS. THE CONTRACTOR IS REQUIRED TO PROMPTLY REMOVE ALL MATERIALS AND EQUIPMENT ONCE WORK IS COMPLETE. UNDER NO CIRCUMSTANCES CAN MATERIAL OR EQUIPMENT BE LEFT ON SITE AFTER THE PROJECT IS COMPLETE.
- CONSTRUCTION ACCESS ROUTES SHOWN ARE SCHEMATIC IN NATURE - FINAL ROUTES TO BE NEGOTIATED WITH THE TOWN AND PROPERTY OWNERS PRIOR TO START OF CONSTRUCTION.
- ACCESS ROADS AND STAGING AND STOCKPILE AREAS ARE TO BE RESTORED UPON PROJECT COMPLETION TO THE ACCEPTANCE OF THE TOWN.
- ALL PRIVATELY OWNED LAWN, GARDEN, SHRUBS, TREES, FENCING, AND OTHER YARD FEATURES SHALL BE RESTORED OR REPAIRED AT PROJECT COMPLETION AT THE APPROVAL OF THE PROPERTY OWNER.
- CLEARING OF NATIVE VEGETATION FOR CONSTRUCTION ACCESS SHOULD BE MINIMIZED UNLESS SHOWN ON THE PLANS OR APPROVED BY THE ENGINEER. THERE SHALL BE NO CLEARING OF TREES WITH GREATER THAN 3" DBH WITHOUT TOWN APPROVAL.
- EXTRA CARE SHALL BE TAKEN BY THE CONTRACTOR TO ENSURE NO DAMAGE IS DONE TO THE ASPHALT ROADWAY, ASPHALT PARKING LOT, CONCRETE SIDEWALKS, GRANITE CURB, OR PAVEMENT MARKINGS TO REMAIN. ANY AND ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO EXISTING OR BETTER CONDITIONS AT THE CONTRACTOR'S EXPENSE. THE TOWN MUST APPROVE ALL REPAIRS PRIOR TO THE COMPLETION OF THE PROJECT.
- UNDERGROUND UTILITIES SHALL BE LOCATED AND AVOIDED WHEN PLANNING THE CONSTRUCTION ACCESS ROUTES. ANY DISRUPTION OR DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR.
- CONSTRUCTION ENTRANCES MUST BE MAINTAINED AT EACH UN-PAVED ACCESS POINT, AS REQUESTED BY THE TOWN.
- ALL EQUIPMENT AND FUEL STORAGE AREAS SHALL BE LOCATED OUTSIDE OF 100-YEAR FLOODPLAIN.
- NO CONSTRUCTION VEHICLES SHALL BE STORED, SERVICED, WASHED OR FLUSHED IN A LOCATION WHERE LEAKS, SPILLAGE, WASTE MATERIALS, CLEANERS, OR WATERS WILL BE INTRODUCED OR FLOW INTO WETLANDS OR WATERCOURSES. AN EMERGENCY MANAGEMENT PLAN AND SPILL KIT MUST BE MAINTAINED ON SITE AT ALL TIMES. IN THE EVENT OF AN ACCIDENTAL RELEASE, IMMEDIATELY STOP CONSTRUCTION WORK, CONTAIN THE SPILL, AND NOTIFY THE TOWN AND APPROPRIATE AUTHORITIES.
- ALL WETLANDS AND WATERCOURSES SHALL BE AVOIDED AND PROTECTED FROM CONSTRUCTION ACTIVITIES WITH SEDIMENT AND EROSION CONTROL MEASURES WHERE NECESSARY, AND AS DETERMINED BY THE TOWN.
- EACH PIECE OF EQUIPMENT SLATED FOR USE DURING CONSTRUCTION SHALL BE INSPECTED FOR ANY MAINTENANCE ISSUES INCLUDING LEAKING OIL, GAS, OR HYDRAULIC FLUID.
- CONTRACTOR SHALL STAY WITHIN THE DESIGNATED LIMITS OF CONSTRUCTION AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE APPROVED BY THE TOWN.

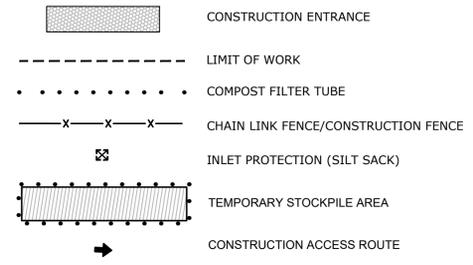
SEDIMENT & EROSION CONTROL NOTES:

- ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE MASSACHUSETTS EROSION AND SEDIMENT CONTROL GUIDELINES.
- A COPY OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES.
- STOCKPILE AREAS TO BE PROTECTED BY SILT FENCE OR COMPOST FILTER TUBE, AS APPROPRIATE.
- THE CONTRACTOR SHALL MAINTAIN ALL STREETS, SIDEWALKS, AND WALKWAYS IN THE AREA FREE OF SOIL, MUD AND CONSTRUCTION DEBRIS. THE CONTRACTOR SHALL PERFORM SWEEPING AS NEEDED TO MITIGATE DUST.
- ALL DISTURBED AREAS SHALL BE RESTORED IN ACCORDANCE WITH THE RESTORATION PLAN, OR TO EXISTING CONDITIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL AREAS DISTURBED DURING CONSTRUCTION TO THE ACCEPTANCE OF THE OWNER.
- INSTALL INLET PROTECTION (SILT SACK OR SIMILAR) WITHIN CATCH BASINS ALONG HIGH STREET, AND ELSEWHERE WITHIN THE WORK AREA.
- INSTALL AND MAINTAIN TEMPORARY COMPOST FILTER TUBES UP GRADIENT OF TOWN RIVER, AND AS DIRECTED BY THE TOWN TO PREVENT SEDIMENT FROM LEAVING THE WORK AREA AND TO PROTECT ADJACENT WETLANDS AND WATERCOURSES.
- REFER TO THE SEDIMENT AND EROSION CONTROL DETAILS (SE-1) AND THE PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

WATER CONTROL NOTES:

- THE CONTRACTOR MUST INSTALL PROPOSED STORMWATER STRUCTURES AND PIPES IN DRY CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR PUMPING, HANDLING AND TREATMENT OF GROUNDWATER AND SURFACE WATER.
- TEMPORARY DEWATERING PUMP, PUMP, AND BASIN LOCATIONS AND NUMBER OF SET UPS REQUIRED MAY VARY
- DEPENDING ON SITE CONDITIONS DURING CONSTRUCTION.
- UNDER NO CIRCUMSTANCES CAN TURBID WATER BE DIRECTLY DISCHARGED BACK TO SURFACE WATER. ALL PUMPED WATER MUST BE TREATED VIA PUMPED SILT CONTROL SYSTEM, OR OTHER METHOD APPROVED BY THE TOWN.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED TEMPORARY BYPASS PUMPING TO COMPLETE THE WORK. WORK SHALL BE COMPLETED DURING LOW FLOWS. ANY OPEN EXCAVATIONS MUST BE PROTECTED FROM SURFACE WATER RUNOFF.

LEGEND



GENERAL CONSTRUCTION NOTES:

- THE CONTRACTOR IS ADVISED THAT THE PROJECT HAS A STRICT CONSTRUCTION SCHEDULE TO COMPLY WITH GRANT RESTRICTIONS. THE CONTRACTOR IS ADVISED THAT ALL WORK FOR THE PROJECT MUST BE COMPLETED BY NOVEMBER 2025. THE CONTRACTOR SHALL PAY LIQUIDATED DAMAGES FOR ANY WORK NOT COMPLETED BY THE CONTRACT DEADLINES, AS STATED IN THE SPECIFICATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR ACKNOWLEDGING THE CONTRACT DEADLINE AND SUBMITTING A SCHEDULE THAT SEQUENCES THE WORK TO MEET THE PROJECT COMPLETION DATE. THE CONTRACTOR IS RESPONSIBLE FOR STAFFING A CONSTRUCTION CREW, INCLUDING PROJECT MANAGERS, LABORERS, SUBCONTRACTORS, ETC., LARGE ENOUGH TO MEET THE PROJECT DEADLINE.
- PRIOR TO THE COMMENCEMENT OF WORK A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH REPRESENTATIVES FROM THE TOWN OF BRIDGEWATER AND THE CONTRACTOR. WEEKLY OR BIWEEKLY CONSTRUCTION MEETINGS WILL BE SCHEDULED, AT THE REQUEST OF THE TOWN.
- THE PROPOSED CONSTRUCTION SEQUENCE IS PROVIDED AS A RECOMMENDED APPROACH AND IS NOT COMPREHENSIVE OR UNIQUE. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING A PROPOSED CONSTRUCTION SEQUENCE AND SCHEDULE TO THE TOWN FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- ALL CONSTRUCTION MATERIALS AND METHODS SHALL CONFORM TO THE TOWN OF BRIDGEWATER REQUIREMENTS AND TO THE APPLICABLE SECTIONS OF THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.
- THE PLANS REQUIRE A CONTRACTOR'S WORKING KNOWLEDGE OF LOCAL, MUNICIPAL, WATER COMPANY, AND STATE CODES FOR UTILITY SYSTEMS. ANY CONFLICTS BETWEEN MATERIALS AND LOCATIONS SHOWN, AND LOCAL REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE TOWN PRIOR TO THE EXECUTION OF WORK. THE TOWN WILL NOT BE HELD LIABLE FOR COSTS INCURRED TO IMPLEMENT OR CORRECT WORK WHICH DOES NOT CONFORM TO LOCAL CODE.
- THE CONTRACTOR SHALL DESIGNATE A SUPERINTENDENT AT THE START OF CONSTRUCTION AND THE CONTRACTOR'S SUPERINTENDENT SHALL BE ON-SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR AND HIS/HER JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR COMPLYING WITH THE JOB SPECIFICATIONS.
- THE CONTRACTOR MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL PERMITS AND REGULATIONS THROUGHOUT THE DURATION OF THE PROJECT. COMPLIANCE WITH ALL CONDITIONS OF APPLICABLE PERMITS IS THE RESPONSIBILITY OF THE CONTRACTOR. COPIES OF ALL PERMITS AND AUTHORIZATIONS SHALL BE MAINTAINED ON THE PROJECT SITE BY THE CONTRACTOR THROUGHOUT CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF PLANS ON SITE AT ALL TIMES AND FOLLOW THE SPECIFICATIONS, DETAILS, AND NOTES FOR ALL ASPECTS OF THE PROJECT. ANY CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE TOWN IMMEDIATELY.
- ANY MATERIAL EXPORTED OFF-SITE SHALL BE LEGALLY DISPOSED OF IN AN UPLAND LOCATION. THE CONTRACTOR IS RESPONSIBLE FOR FINDING A SUITABLE RECIPIENT OF THE MATERIAL, GAINING REGULATORY APPROVAL FOR EXPORTED MATERIAL PLACEMENT IF NEEDED, AND HAULING.
- FOLLOWING COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL PARTICIPATE IN A SEMI-FINAL AND FINAL SITE INSPECTION WITH THE TOWN FOR THE PURPOSE OF VERIFYING THAT THE PROJECT HAS BEEN COMPLETED ACCORDING TO THE CONSTRUCTION PLANS, SPECIFICATIONS AND THE TERMS AND CONDITIONS OF THE CONTRACT.
- THE SITE SHOULD BE KEPT CLEAN OF LOOSE DEBRIS, LITTER, AND OTHER MATERIAL SUCH THAT NONE OF THESE MATERIAL ENTER WATERS OR WETLANDS.
- ALL EXISTING PROPERTY MONUMENTATION MUST BE PROTECTED DURING THE WORK. MONUMENTATION THAT IS DISTURBED MUST BE RESET BY A MASSACHUSETTS LICENSED LAND SURVEYOR AT NO COST TO THE TOWN OR THE ADJUTING PROPERTY OWNER.
- ALL CONSTRUCTION EQUIPMENT, INCLUDING CRANES AND RIGGING, MUST MAINTAIN A MINIMUM OF 10-FOOT OFFSET FROM ACTIVE POWER LINES AT ALL TIMES.

GENERAL NOTES:

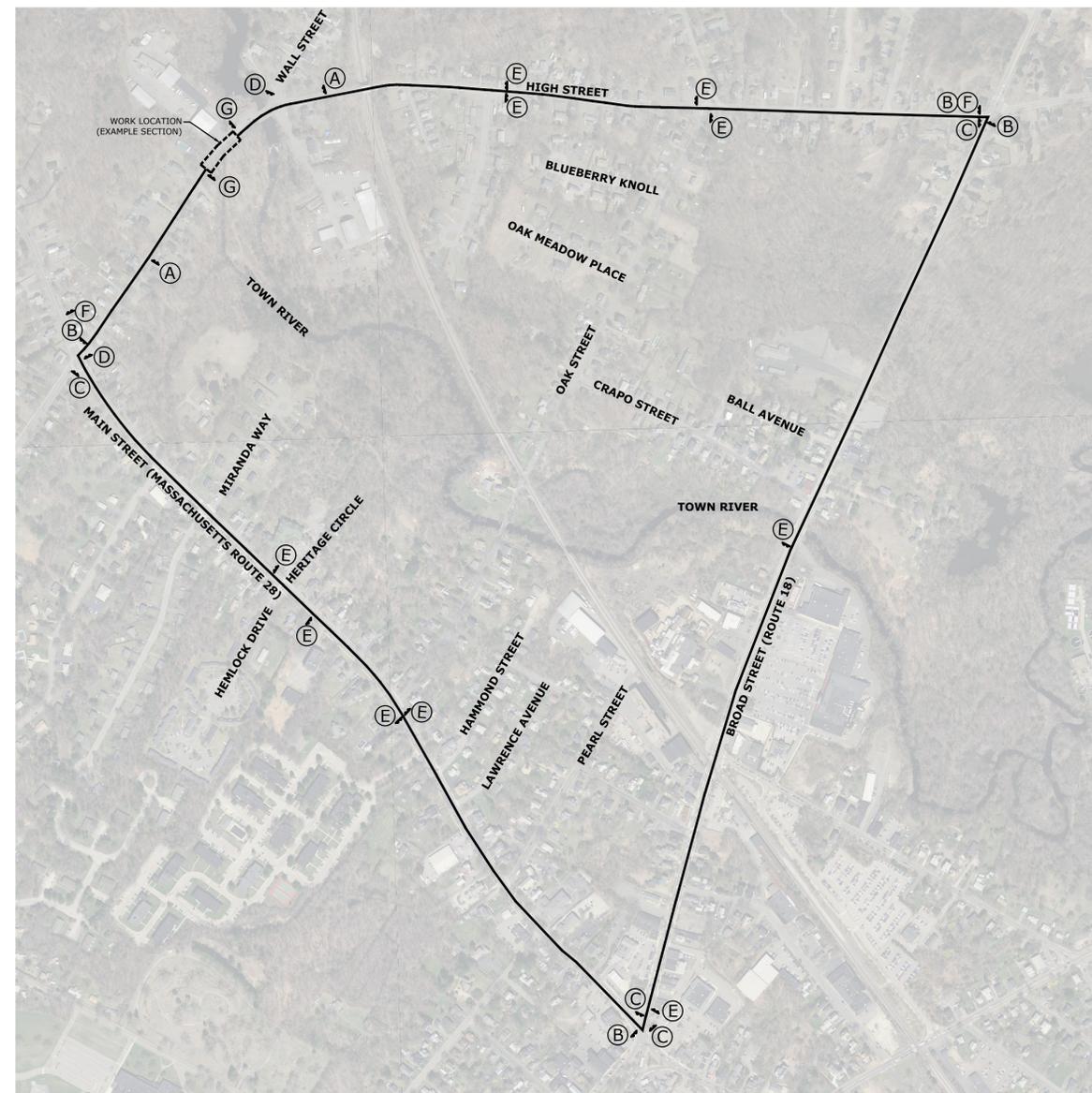
1. THE CONTRACTOR IS ADVISED THAT THE PROJECT SITE IS HEAVILY TRAVELED BY VEHICLES AND THE TOWN DOES NOT PERMIT FULL ROAD CLOSURE OF HIGH STREET EXCEPT FOR SHORT PERIODS WITH ADVANCE NOTICE, AS APPROVED BY THE TOWN.
2. THE CONTRACTOR IS NOT PERMITTED TO USE POLICE DETAILS OR FULL ROAD CLOSURE AS THE PRIMARY METHOD OF TRAFFIC CONTROL. THE CONTRACTOR'S SUBMITTED TRAFFIC MANAGEMENT PLAN SHALL BE DESIGNED IN ACCORDANCE WITH THE MASSDOT STANDARDS TO ESTABLISH A TEMPORARY TRAFFIC CONTROL (TTC) ZONE. SEE DETAILS. A MINIMUM OF ONE-LANE OF TRAFFIC MUST BE PROVIDED ON HIGH STREET FOR THE DURATION OF THE PROJECT.
3. USE OF POLICE DETAILS MUST BE PRE-APPROVED BY THE TOWN AND SHALL ONLY BE USED WHEN A TTC ZONE CANNOT BE ESTABLISHED FOR SPECIFIC PHASES OF WORK.
4. POLICE DETAILS SHALL BE COORDINATED WITH THE TOWN A MINIMUM OF ONE WEEK IN ADVANCE. THE TOWN WILL PAY FOR ANY REQUIRED POLICE DETAILS.
5. TRAFFIC PERSONS (FLAGGERS) ARE TO BE USED WHENEVER TRAFFIC CONTROL DEVICES ARE INSTALLED, RELOCATED OR REMOVED. EXPENSE FOR FLAGGERS SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID FOR TRAFFIC CONTROL.
6. NO OPEN EXCAVATION SHALL BE ALLOWED DURING NIGHT TIME HOURS EXCEPT AS APPROVED IN WRITING BY THE TOWN. AT THE END OF EACH WORK DAY, THE CONTRACTOR SHALL COVER ALL OPEN EXCAVATIONS FOR THE SAFETY OF THE TRAVELING PUBLIC.

DETOUR NOTES:

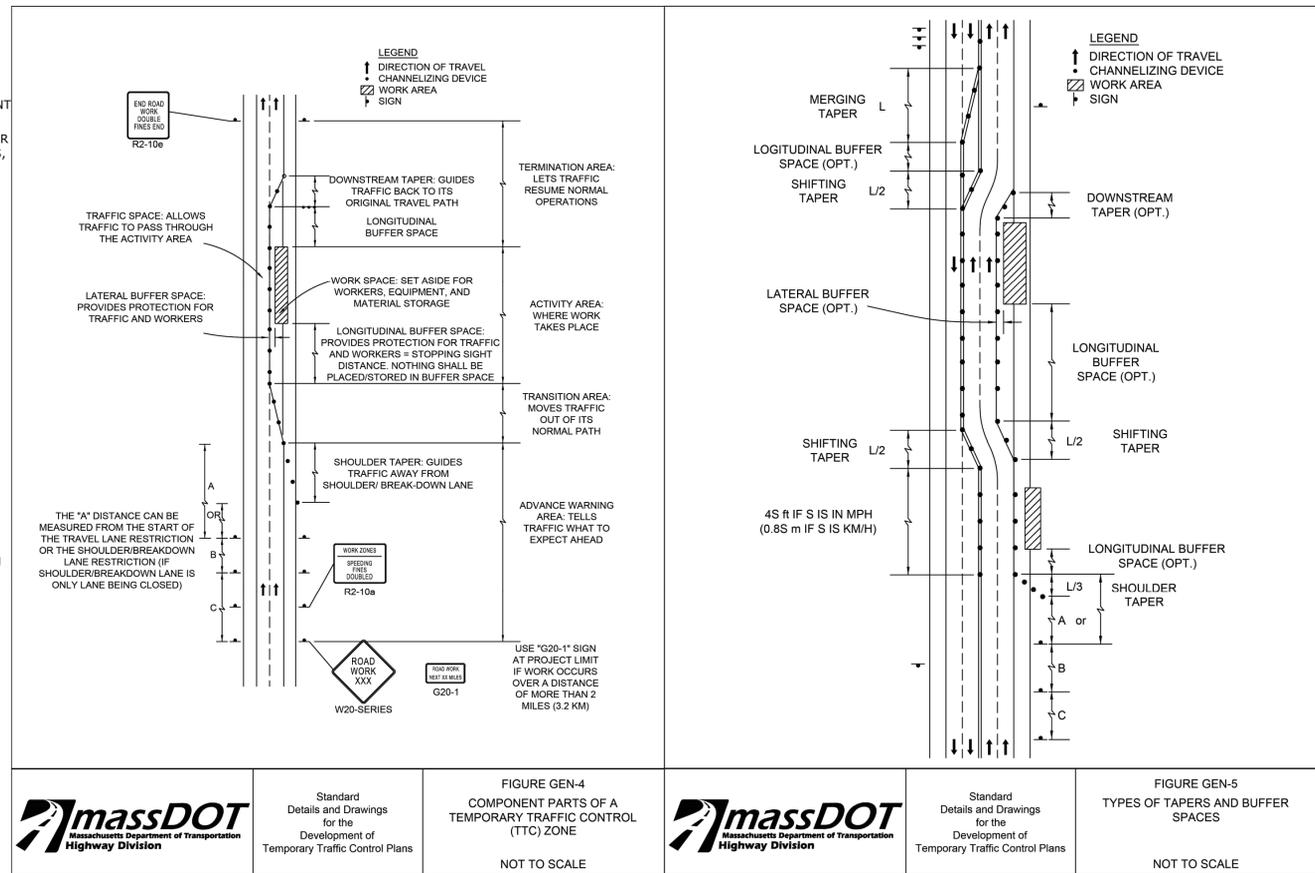
1. FULL ROADWAY CLOSURE OF HIGH STREET IS NOT PERMITTED DURING WORKING HOURS, UNLESS PRE-APPROVED BY THE TOWN. AT THE END OF EACH WORK DAY, THE CONTRACTOR MUST IMPLEMENT PARTIAL LANE CLOSURES DURING WORK HOURS TO COMPLETE THE WORK.
2. ACTIVITIES THAT REQUIRE FULL ROADWAY CLOSURE WILL BE PERMITTED WITH TWO WEEKS ADVANCED REQUEST TO THE TOWN AND AFFECTED PROPERTY OWNERS. FULL ROAD CLOSURE SHALL BE LIMITED TO A PERIOD OF THREE DAYS, UNLESS APPROVED BY THE TOWN.
3. AN EXAMPLE DETOUR ROUTE FOR PRE-APPROVED ROAD CLOSURES IS PRESENTED ON THIS PLAN. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED VARIATIONS TO THIS DETOUR PLAN TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS BEFORE THE WORK BEGINS.
4. LOCATIONS FOR TEMPORARY SIGNS ARE SUGGESTED AND APPROXIMATE AND SHALL BE ADJUSTED AS DIRECTED BY THE TOWN SO AS NOT TO CONFLICT WITH EXISTING PERMANENT SIGNS. EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS. THE CONTRACTOR SHALL SUBMIT A PROPOSED DETOUR PLAN, INCLUDING ALL SIGNAGE, AS PART OF THE TRAFFIC MANAGEMENT PLAN.

TRAFFIC CONTROL PLAN NOTES:

1. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MANAGEMENT PLAN FOR APPROVAL BY THE TOWN.
2. THE TRAFFIC MANAGEMENT PLAN SHALL BE PREPARED IN ACCORDANCE WITH THE MASSDOT STANDARD DETAILS AND DRAWINGS FOR THE DEVELOPMENT OF TEMPORARY TRAFFIC CONTROL PLAN (LATEST EDITION).
3. THE CONTRACTOR SHALL USE TEMPORARY CHAIN LINK FENCING TO PROHIBIT PEDESTRIAN ACCESS TO ALL ACTIVE WORK AREAS. LOCATION OF FENCING IS NOT SHOWN ON THIS PLAN AND THE CONTRACTOR'S TRAFFIC MANAGEMENT PLAN MUST PROVIDE FINAL LOCATIONS IN COORDINATION WITH THE SCHEDULE OF WORK.
4. CONTRACTOR SHALL USE JERSEY BARRIERS OR OTHER APPROVED MEDIAN BARRIER FOR ALL TEMPORARY VEHICULAR DETOURS. MEDIAN BARRIERS SHALL BE SURROUNDED BY TYPE III BARRIERS OR REFLECTORIZED DRUMS OR CONES, IN ACCORDANCE WITH MASSDOT AND MUTCD REQUIREMENTS.
5. ALL TEMPORARY TRAFFIC CONTROL WORK SHALL CONFORM TO GUIDELINES SET IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", MOST CURRENT EDITION AND ALL REVISIONS, AS PUBLISHED BY U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
6. ALL SIGNS, LEGENDS, BORDERS, AND MOUNTING SHALL BE IN ACCORDANCE WITH THE MUTCD, AND ALL SIGNS SHALL BE MOUNTED ON THEIR OWN STANDARD SIGN SUPPORTS.
7. SIGN PLACEMENT SHALL BE SUBJECT TO FIELD ADJUSTMENT, BASED UPON INTERFERENCE WITH SITE LINES, DRIVEWAYS, UTILITIES, VEGETATION, OR AT THE DIRECTION OF THE TOWN.
8. ALL CONSTRUCTION SIGNAGE SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF WORK FOR THAT PHASE.
9. SIGNAGE SHALL BE RELOCATED, AMENDED, AND MODIFIED DURING EACH PHASE OF WORK, AS REQUIRED TO PROVIDE THE SAFE EGRESS OF VEHICLES AND PEDESTRIANS.
10. TEMPORARY CONSTRUCTION SIGNING, BARRICADES, AND ALL OTHER NECESSARY WORK ZONE TRAFFIC CONTROL DEVICES SHALL BE REMOVED FROM THE ROADWAY OR COVERED WHEN THEY ARE NOT REQUIRED FOR CONTROL OF TRAFFIC.
11. SIGNS AND SIGN SUPPORTS LOCATED ON OR NEAR THE TRAVELED WAY, CHANNELIZING DEVICES, BARRIERS, AND CRASH ATTENUATORS MUST PASS THE CRITERIA SET FORTH IN NCHRP REPORT 350, "RECOMMENDED PROCEDURES FOR THE SAFETY PERFORMANCE EVALUATION OF HIGHWAY FEATURES" AND/OR "MANUAL FOR ASSESSING SAFETY HARDWARE" (MASH).
12. CONTRACTOR SHALL NOTIFY EACH ABUTTER AT LEAST 24 HOURS IN ADVANCE OF THE START OF ANY WORK THAT WILL REQUIRE THE TEMPORARY CLOSURE OF ACCESS, SUCH AS PIPE INSTALLATION, EXISTING PAVEMENT EXCAVATION, TEMPORARY PAVEMENT PLACEMENT, AND SIMILAR OPERATIONS.
13. THE FIRST FIVE PLASTIC DRUMS OF A TAPER SHALL BE MOUNTED WITH TYPE A LIGHTS.
14. DISTANCES ARE A GUIDE AND MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
15. MAXIMUM SPACING OF TRAFFIC DEVICES IN A TAPER (DRUMS OR CONES) IS EQUAL IN FEET TO THE SPEED LIMIT IN MPH.
16. MINIMUM LANE WIDTH IS TO BE 11 FEET (3.3M) UNLESS OTHERWISE SHOWN. MINIMUM LANE WIDTH TO BE MEASURED FROM THE EDGE OF DRUMS OR MEDIAN BARRIER.



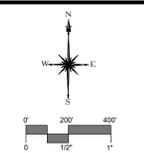
DETOUR PLAN
SCALE: 1"=400'



Standard Details and Drawings for the Development of Temporary Traffic Control Plans
 FIGURE GEN-4 COMPONENT PARTS OF A TEMPORARY TRAFFIC CONTROL (TTC) ZONE NOT TO SCALE
 Standard Details and Drawings for the Development of Temporary Traffic Control Plans
 FIGURE GEN-5 TYPES OF TAPERS AND BUFFER SPACES NOT TO SCALE

CONSTRUCTION SIGN LEGEND			
PLAN DESIGNATION	MESSAGE	SIZE	MUTCD DESIGNATION
(A)	ROAD CLOSED 500 FEET LOCAL TRAFFIC ONLY	30" x 12" 60" x 30"	W16-8* R11-3b
(B)	DETOUR	30" x 12" 48" x 18"	W16-8* M4-10(L)
(C)	DETOUR	30" x 12" 48" x 18"	W16-8* M4-10(R)
(D)		24" x 24"	R3-1
(E)	DETOUR	30" x 12" 24" x 12"	W16-8* M4-8
(F)	END DETOUR	24" x 18"	M4-8a
(G)	ROAD CLOSED	48" x 30"	R11-2

*SIGN TO HAVE BLACK BORDER & LEGEND, ORANGE BACKGROUND.



DESCRIPTION	DATE	BY

CONSTRUCTION PLANS

MAINTENANCE & PROTECTION OF TRAFFIC PLAN
 HIGH STREET DRAINAGE IMPROVEMENTS
 HIGH STREET BRIDGEWATER, MASSACHUSETTS

TMD DESIGNED	TMD DRAWN	WAG CHECKED
SCALE: 1"=400'		
DATE: JUNE 6, 2025		
PROJECT NO.: 21408.00002		
SHEET NO.: 10 OF 12		

MPT-01

SEDIMENT & EROSION CONTROL SPECIFICATIONS

GENERAL:

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION, AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY, AND CONDUIT CARRYING WATER, ETC. THE CONTRACTOR SHALL LIMIT, INsofar AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS AND IMMEDIATELY PROVIDE PERMANENT AND TEMPORARY POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES, AND WATER BODIES, AND TO PREVENT, INsofar AS POSSIBLE, EROSION ON THE SITE.

LAND GRADING:

THE RESHAPING OF THE GROUND SURFACE BY EXCAVATION AND FILLING OR A COMBINATION OF BOTH, TO OBTAIN PLANNED GRADES, SHALL PROCEED IN ACCORDANCE WITH THE FOLLOWING CRITERIA:

- THE CUT FACE OF EARTH EXCAVATION SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- THE PERMANENT EXPOSED FACES OF FILLS SHALL NOT BE STEEPER THAN TWO HORIZONTAL TO ONE VERTICAL (2:1).
- THE CUT FACE OF ROCK EXCAVATION SHALL NOT BE STEEPER THAN ONE HORIZONTAL TO TWO VERTICAL (1:2).
- PROVISIONS SHOULD BE MADE TO CONDUCT SURFACE WATER SAFELY TO STORM DRAINS TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
- NO FILL SHOULD BE PLACED WHERE IT WILL SLIDE OR WASH INTO ADJACENT WETLANDS, WATERCOURSES, OR WATER BODIES.
- PRIOR TO ANY RE-GRADING, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT THE ENTRANCE TO THE WORK AREA IN ORDER TO REDUCE MUD AND OTHER SEDIMENTS FROM LEAVING THE SITE.

TOPSOILING:

TOPSOIL SHALL BE SPREAD OVER ALL EXPOSED AREAS IN ORDER TO PROVIDE A SOIL MEDIUM HAVING FAVORABLE CHARACTERISTICS FOR THE ESTABLISHMENT, GROWTH, AND MAINTENANCE OF VEGETATION.

UPON ATTAINING FINAL SUBGRADES, SCARIFY SURFACE TO PROVIDE A GOOD BOND WITH TOPSOIL.

REMOVE ALL LARGE STONES, TREE LIMBS, ROOTS AND CONSTRUCTION DEBRIS.

APPLY LIME ACCORDING TO SOIL TEST OR AT THE RATE OF TWO (2) TONS PER ACRE.

MATERIAL:

- TOPSOIL SHOULD HAVE PHYSICAL, CHEMICAL, AND BIOLOGICAL CHARACTERISTICS FAVORABLE TO THE GROWTH OF PLANTS.
- TOPSOIL SHOULD HAVE A SANDY OR LOAMY TEXTURE.
- TOPSOIL SHOULD BE RELATIVELY FREE OF SUBSOIL MATERIAL AND MUST BE FREE OF STONES (OVER 1" IN DIAMETER), LUMPS OF SOIL, ROOTS, TREE LIMBS, TRASH, OR CONSTRUCTION DEBRIS. IT SHOULD BE FREE OF ROOTS OR RHIZOMES SUCH AS THISTLE, NUTGRASS, AND QUACKGRASS.
- AN ORGANIC MATTER CONTENT OF SIX PERCENT (6%) IS REQUIRED. AVOID LIGHT COLORED SUBSOIL MATERIAL.
- SOLUBLE SALT CONTENT OF OVER 500 PARTS PER MILLION (PPM) IS LESS SUITABLE. AVOID TIDAL MARSH SOILS BECAUSE OF HIGH SALT CONTENT AND SULFUR ACIDITY.
- THE pH SHOULD BE MORE THAN 6.0. IF LESS, ADD LIME TO INCREASE pH TO AN ACCEPTABLE LEVEL.

APPLICATION:

- AVOID SPREADING WHEN TOPSOIL IS WET OR FROZEN.
- SPREAD TOPSOIL UNIFORMLY TO A DEPTH OF AT LEAST SIX INCHES (6"), OR TO THE DEPTH SHOWN ON THE LANDSCAPING PLANS.

TEMPORARY VEGETATIVE COVER:

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

SITE PREPARATION:

- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- APPLY LIME ACCORDING TO SOIL TEST OR AT A RATE OF ONE (1) TON OF GROUND DOLOMITIC LIMESTONE PER ACRE (5 LBS. PER 100 SQ. FT.).
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR AT THE RATE OF 30 LBS. OF 10-10-10 PER ACRE (7 LBS. PER 1,000 SQ. FT.) AND SECOND APPLICATION OF 200 LBS. OF 10-10-10 (5 LBS. PER 1,000 SQ. FT.) WHEN GRASS IS FOUR INCHES (4") TO SIX INCHES (6") HIGH. APPLY ONLY WHEN GRASS IS DRY.
- UNLESS HYDROSEEDDED, WORK IN LIME AND FERTILIZER TO A DEPTH OF FOUR (4") INCHES USING A DISK OR ANY SUITABLE EQUIPMENT.
- TILLAGE SHOULD ACHIEVE A REASONABLY UNIFORM LOOSE SEEDBED. WORK ON CONTOUR IF SITE IS SLOPING.

ESTABLISHMENT:

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

EROSION CHECKS:

GENERAL:

TEMPORARY PERVIOUS BARRIERS USING COMPOST FILTER TUBE HELD IN PLACE WITH STAKES, SHALL BE INSTALLED AND MAINTAINED AS REQUIRED TO CHECK EROSION AND REDUCE SEDIMENTATION.

CONSTRUCTION:

COMPOST FILTER TUBES SHOULD BE PLACED WITH A MINIMUM OVERLAP OF THREE FEET (3') OR SLEEVED TO JOIN IN A CONTINUOUS BARRIER. COMPOST TUBES SHALL BE TAMPED IN PLACE TO ENSURE GOOD CONTACT WITH SOIL SURFACE. COMPOST TUBES SHALL BE STAKED OR LEANED AGAINST SUPPORTS ON SLOPES 2:1 OR GREATER. STAKES SHALL BE LOCATED AS REQUIRED TO SECURE TUBES IN PLACE UP TO FIVE FEET (5') APART. COMPOST TUBES SHALL BE PLACED AS CLOSE TO THE LIMITS OF SOIL DISTURBANCE AS POSSIBLE.

INSTALLATION AND MAINTENANCE:

- INLET CONTROLS SHALL BE INSTALLED AT ALL STORM SEWER INLETS.
- COMPOST FILTER TUBE SHALL BE INSTALLED AT THE LOCATIONS INDICATED ON THE PLAN AND IN ADDITIONAL AREAS AS MAY BE DEEMED APPROPRIATE DURING CONSTRUCTION.
- ALL EROSION CHECKS SHALL BE MAINTAINED UNTIL ADJACENT AREAS ARE STABILIZED.
- INSPECTION SHALL BE FREQUENT (AT MINIMUM MONTHLY AND BEFORE AND AFTER HEAVY RAIN) AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- EROSION CHECKS SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM WATER FLOW OR DRAINAGE.

VEGETATIVE COVER SELECTION & MULCHING:

TEMPORARY VEGETATIVE COVER:

PERENNIAL RYEGRASS 3 LBS./1,000 SQ.FT. (10LUJUM PERENNE)

PERMANENT VEGETATIVE COVER:

- SEE RESTORATION PLAN FOR SEED MIX
- COVER GRASS AND LEGUME SEED WITH NOT MORE THAN 1/4" INCH OF SOIL WITH SUITABLE EQUIPMENT (EXCEPT WHEN HYDROSEEDING).

ESTABLISHMENT:

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

MAINTENANCE:

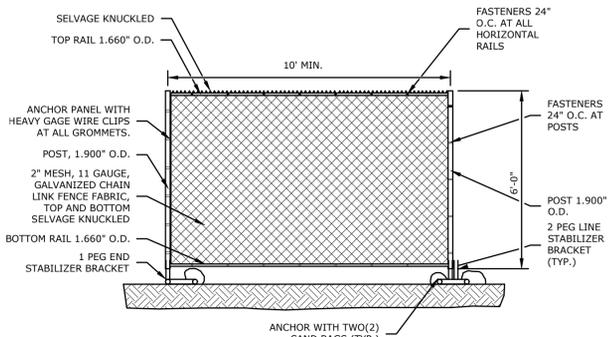
- TEST FOR SOIL ACIDITY EVERY THREE (3) YEARS AND LIME AS REQUIRED.
- ON SITES WHERE GRASSES PREDOMINATE, BROADCAST ANNUALLY 500 POUNDS OF 10-10-10 FERTILIZER PER ACRE (12 LBS. PER 1,000 SQ. FT.) OR AS NEEDED ACCORDING TO ANNUAL SOIL TESTS.
- ON SITES WHERE LEGUMES PREDOMINATE, BROADCAST EVERY THREE (3) YEARS OR AS INDICATED BY SOIL TEST 300 POUNDS OF 0-20-20 OR EQUIVALENT PER ACRE (8 LBS PER 1,000 SQ. FT.).

PERMANENT VEGETATIVE COVER:

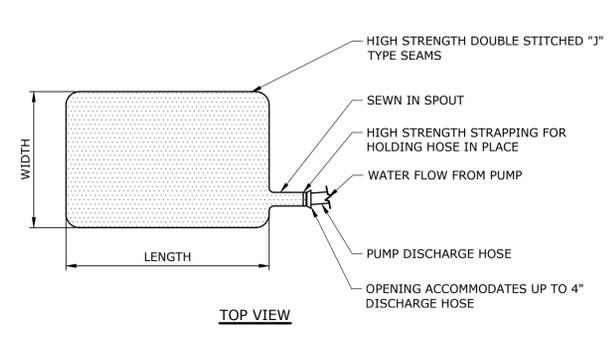
PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED AS VARIOUS SECTIONS OF THE PROJECT ARE COMPLETED IN ORDER TO STABILIZE THE SOIL, REDUCE DOWNSTREAM DAMAGE FROM SEDIMENT AND RUNOFF, AND TO ENHANCE THE AESTHETIC NATURE OF THE SITE. IT WILL BE APPLIED TO ALL CONSTRUCTION AREAS SUBJECT TO EROSION WHERE FINAL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

SITE PREPARATION:

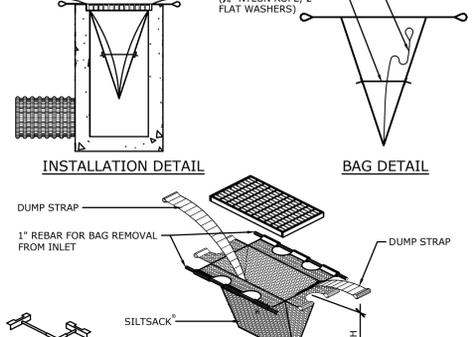
- INSTALL REQUIRED SURFACE WATER CONTROL MEASURES.
- REMOVE LOOSE ROCK, STONE, AND CONSTRUCTION DEBRIS FROM AREA.
- PERFORM ALL PLANTING OPERATIONS PARALLEL TO THE CONTOURS OF THE SLOPE.
- APPLY TOPSOIL AS INDICATED ELSEWHERE HEREIN.
- APPLY FERTILIZER ACCORDING TO SOIL TEST OR:
 - SPRING SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 300 LBS. OF 10-10-10 FERTILIZER PER ACRE (7 LBS. PER 1,000 SQ. FT.); THEN SIX (6) TO EIGHT (8) WEEKS LATER, APPLY ON THE SURFACE AN ADDITIONAL 300 LBS. OF 10-10-10 FERTILIZER PER ACRE. AFTER SEPTEMBER 1, TEMPORARY VEGETATIVE COVER SHALL BE APPLIED.
 - FALL SEEDING: WORK DEEPLY IN SOIL, BEFORE SEEDING, 600 LBS. OF 10-10-10 FERTILIZER PER ACRE (14 LBS. PER 1,000 SQ. FT.).



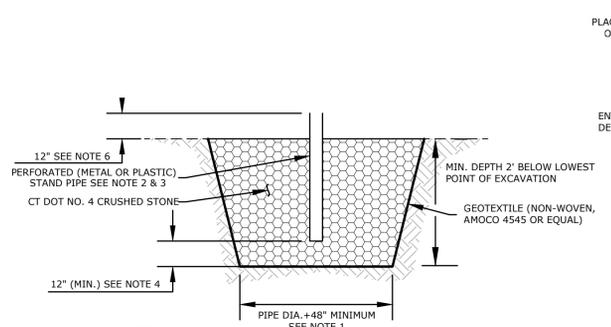
- NOTES:**
- EACH STABILIZER BRACKET SHALL BE SECURED WITH TWO (2) SANDBAGS, MIN. 50 POUNDS EACH.
 - PANELIZED CONSTRUCTION FENCE SHALL ONLY BE USED AT CONSTRUCTION SITE ENTRANCE AREAS, AREAS REQUIRING FREQUENT RELOCATION OF FENCING, OR WHERE PAVED AREAS PROHIBIT INSTALLATION OF EMBEDDED FENCE POSTS.



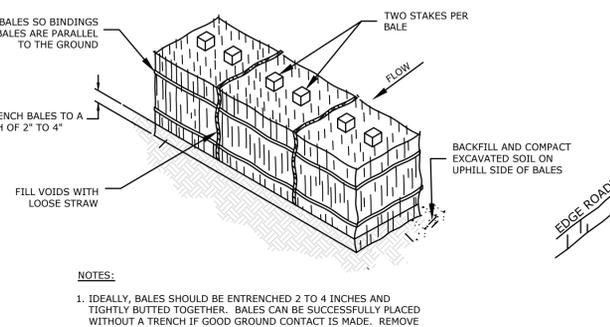
- NOTES:**
- CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVALS PRIOR TO CONSTRUCTION.



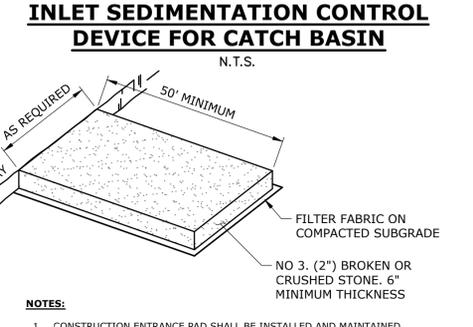
- NOTES:**
- CONSTRUCTION ENTRANCE PAD SHALL BE INSTALLED AND MAINTAINED DURING OPERATIONS WHICH GENERATE VEHICULAR TRACKING OF MUD.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVALS PRIOR TO CONSTRUCTION.



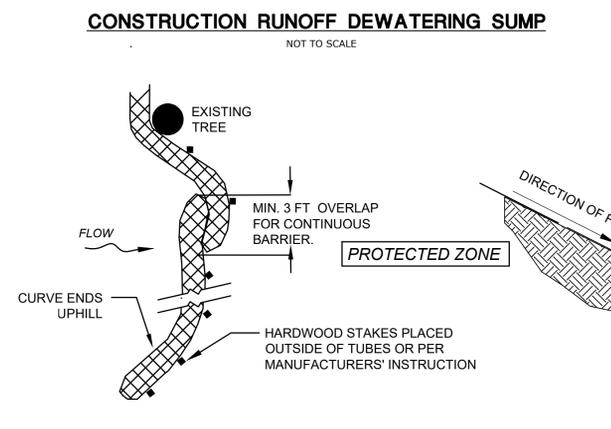
- NOTES:**
- OVERALL SUMP PIT DIMENSIONS TO BE COMPATIBLE WITH ANTICIPATED SEEPAGE RATES AND PUMP TO BE USED.
 - THE STAND PIPE DIAMETER AND NUMBER OF PERFORATIONS TO BE COMPATIBLE WITH THE PUMP SIZE BEING USED.
 - PERFORATIONS IN THE STANDPIPE TO BE EITHER CIRCULAR OR SLOTS, PERFORATION SIZE SHALL NOT EXCEED 1/2" DIAMETER.
 - NO. 4 CRUSHED STONE CONFORMING TO CT DOT FORM 816, M.01.01. CRUSHED STONE SHALL EXTEND A MINIMUM OF 12" BELOW THE BOTTOM OF THE STANDPIPE.
 - A PROPERLY DESIGNED GEOTEXTILE TO BE PLACED BETWEEN THE EXISTING SOILS AND THE CRUSHED STONE BACKFILL.
 - THE STANDPIPE SHALL EXTEND A MINIMUM OF 12" ABOVE THE SURROUNDING GROUND.



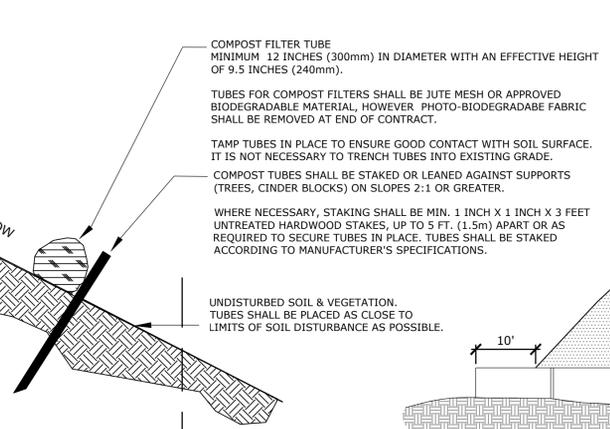
- NOTES:**
- IDEALLY, BALES SHOULD BE ENTRENCHED 2 TO 4 INCHES AND TIGHTLY BUTTED TOGETHER. BALES CAN BE SUCCESSFULLY PLACED WITHOUT A TRENCH IF GOOD GROUND CONTACT IS MADE. REMOVE HEAVY BRUSH AND FILL ALL VOIDS WITH LOOSE STRAW.
 - BALES SHALL BE ONLY USED AS A TEMPORARY BARRIER AND FOR NO LONGER THAN 60 DAYS.
 - WHEN SEDIMENTATION DEPOSITS REACH WITHIN 3" OF THE TOP OF BALES, REMOVE SEDIMENTATION OR ADD ADDITIONAL BALES ON SEDIMENTATION DIRECTLY BEHIND FIRST ROW OF BALES AS DIRECTED BY THE ENGINEER.
 - UPON ESTABLISHMENT OF GROUND COVER ON DISTURBED AREAS AND WHEN DIRECTED BY THE ENGINEER, STRAWBALES WILL BE REMOVED AND USED AS MULCH. ANY SEDIMENTATION WILL BE THINLY SPREAD UPON ESTABLISHED GROUND COVER.



- NOTES:**
- CONTRACTOR SHALL COORDINATE TEMPORARY FENCE INSTALLATION WITH OWNERS REPRESENTATIVES.
 - CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR APPROVALS PRIOR TO CONSTRUCTION.



- NOTES:**
- PROVIDE A MINIMUM TUBE DIAMETER OF 12 INCHES (300mm) IN LENGTH WITH A SLOPE RATIO OF 3H:1V OR STEEPER. LONGER SLOPES OF 3H:1V MAY REQUIRE LARGER TUBE DIAMETER OR ADDITIONAL COURSING OF FILTER TUBES TO CREATE A FILTER BERM. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR SITUATIONS WITH LONGER OR STEEPER SLOPES.
 - INSTALL TUBES ALONG CONTOURS AND PERPENDICULAR TO SHEET OR CONCENTRATED FLOW.
 - TUBE LOCATION MAY BE SHIFTED TO ADJUST TO LANDSCAPE FEATURES, BUT SHALL PROTECT UNDISTURBED AREA AND VEGETATION TO MAXIMUM EXTENT POSSIBLE.
 - DO NOT INSTALL IN PERENNIAL, EPHEMERAL OR INTERMITTENT STREAMS.
 - ADDITIONAL TUBES SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
 - ADDITIONAL STAKING SHALL BE USED AT THE DIRECTION OF THE ENGINEER.
 - PLACE TUBE AS CLOSE TO LIMIT OF SOIL DISTURBANCE AS POSSIBLE, ALONG CONTOURS, AND PERPENDICULAR TO FLOW.
 - ADJUST LOCATION AS REQUIRED FOR OPTIMUM EFFECTIVENESS. DO NOT INSTALL IN WATERWAYS.



- NOTES:**
- INSTALL A GEOTEXTILE SILT FENCE AND/OR HAY BALE BARRIER AROUND THE STOCKPILE AREA APPROXIMATELY 10 FEET FROM THE PROPOSED TOE OF SLOPE.
 - SIDE SLOPES SHALL NOT EXCEED A SLOPE OF 2:1. STOCKPILES THAT REMAIN INACTIVE FOR MORE THAN 30 DAYS SHALL BE SEEDDED AND MULCHED IMMEDIATELY AFTER FORMATION.
 - DISTANCE FROM WETLANDS, WATERCOURSES, DRAINAGE WAYS AND STEEP SLOPES SHALL BE MAXIMIZED. RUNOFF SHALL BE DIVERTED AWAY FROM STOCKPILE AREA.

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DATE	BY	DESCRIPTION

CONSTRUCTION PLANS

SEDIMENTATION & EROSION CONTROL DETAILS

HIGH STREET DRAINAGE IMPROVEMENTS

HIGH STREET BRIDGEWATER, MASSACHUSETTS

TMD	GAB	WAG
DESIGNED	DRAWN	CHECKED

AS NOTED

JUNE 6, 2025

DATE

PROJECT NO. **21408.00002**

SHEET NO. **11 OF 12**

SE-1

SHEET NAME

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