PROPOSED INDUSTRIAL BUILDING
43 TAUNTON STREET
PLAINVILLE, MASSACHUSETTS 02762

PERMIT SUBMISSION: MARCH 24, 2022



LOCUS
SCALE: N.T.S.

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SUMMARY OF ZONING RELIEF REQUESTED

ZBL SECTION	SPGA	REQUIREMENT	REQUEST
§500-19	PLANNING BOARD	INDUSTRIAL USE SPECIFICALLY AUTHORIZED BY SPECIAL PERMIT	SPECIAL PERMIT TO ALLOW INDUSTRIAL USE
§500-21 & 34	PLANNING BOARD	SPECIAL PERMIT FOR EARTH REMOVAL FOR PROJECT REQUIRING > 350 CUBIC YARDS OF EARTH MOVING	SPECIAL PERMIT TO ALLOW EARTH MOVING IN EXCESS OF 350 CUBIC YARDS
§500-37	PLANNING BOARD	SPECIAL PERMIT UNDER COMMUNITY & WATER RESOURCE PROTECTION FOR PROJECT EXCEEDING THRESHOLDS IN §500-37 (C)(1)(a,b,&e)	SPECIAL PERMIT TO ALLOW USE CREATING > 20 PARKING SPACES, NEW COMMERCIAL OR INDUSTRIAL BUILDING WITH > 10,000 SF FOOTPRINT AREA, BUSINESS OR MANUFACTURING USE WITH IMPERVIOUS AREA > 1 ACRE

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REGISTERED PROFESSIONAL ENGINEER
3-24-2022

PROPOSED INDUSTRIAL BUILDING
43 TAUNTON STREET
PLAINVILLE, MA 02762
OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION
ISSUE DATE:
3.24.2022
PROJECT NUMBER:
21018

DRAWN BY: AB
CHECKED BY: JA/DTB

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SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T100

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GENERAL NOTES

THE PROJECT SITE IS SUBJECT TO AN ACTIVITIES AND USE LIMITATION (AUL; RTN TRACKING NO.: 4-0000877) AS A PORTION OF THE SITE COMPRISES PART OF A DISPOSAL SITE AS THE RESULT OF RELEASE(S) OF OIL AND/OR HAZARDOUS MATERIAL. IN ACCORDANCE WITH THE AUL, THE PROJECT IS SUBJECT TO A HEALTH AND SAFETY PLAN AND SOILS MANAGEMENT PLAN (HASP/SMP) TO BE PREPARED BY INLAND PROFESSIONAL CORPORATION, THE LICENSED SITE PROFESSIONAL (LSP) ASSIGN TO THE PROJECT ON BEHALF OF THE PROPERTY OWNER. ALL SITEWORK AND EARTH MOVING ACTIVITIES SHALL BE CONDUCTED IN CONFORMANCE WITH THE HASP/SMP AND IN DIRECT COORDINATION WITH THE LSP.

THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE ENGINEER.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE ANY AND ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION. THESE SHALL INCLUDE SIGNS, BARRICADES, FENCES, POLICE OFFICERS, ETC. AS IS NECESSARY, OR AS DIRECTED BY THE PUBLIC AUTHORITIES AND THE OWNER. CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL REQUIREMENTS.

THE EXISTING SITE CONDITIONS SHOWN ON THESE PLANS WERE DETERMINED BY A FIELD SURVEY AND COMPILATION OF PLANS OF RECORD. ANY VARIATIONS FROM THE CONDITIONS SHOWN ON THESE PLANS SHOULD BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE PROPOSED WORK.

UNLESS OTHERWISE SPECIFIED ON THE PLANS AND SPECIFICATIONS ALL SITE CONSTRUCTION MATERIALS AND METHODOLOGIES ARE TO CONFORM TO THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION OR THE LATEST EDITION.

WORK WITHIN LOCAL RIGHTS-OF-WAY SHALL CONFORM TO LOCAL MUNICIPAL STANDARDS. WORK WITHIN STATE RIGHTS-OF-WAY SHALL CONFORM TO THE LATEST EDITION OF THE STATE HIGHWAY DEPARTMENTS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.

THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, PRIOR TO THE START OF CONSTRUCTION.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AND ALL CONSTRUCTION MEANS AND METHODS.

LIMIT OF WORK SHALL BE EROSION CONTROL BARRIERS. LIMIT OF GRADING AND SITE PROPERTY LINES AND/OR AS INDICATED ON DRAWINGS.

CONTRACTOR TO VERIFY UTILITY STUB LOCATIONS AND ELEVATIONS IN THE FIELD PRIOR TO COMMENCING WORK.

ANY ALTERATION TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS.

ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.

ALL WORK TO BE DONE WITHIN PUBLIC RIGHTS-OF-WAY SHALL CONFORM TO TOWN OF PLAINVILLE STANDARD CONSTRUCTION REQUIREMENTS FOR THE INSTALLATION OF AND/OR REPAIR OF UNDERGROUND FACILITIES, EXCAVATIONS AND PAVING IN THE PUBLIC WAY.

IN THE EVENT THAT SUSPECTED CONTAMINATED SOIL, GROUNDWATER AND OTHER MEDIA ARE ENCOUNTERED DURING EXCAVATION AND CONSTRUCTION ACTIVITIES BASED ON VISUAL, OLFACTORY, OR OTHER EVIDENCE, THE CONTRACTOR SHALL STOP WORK IN THE VICINITY OF THE SUSPECT MATERIAL AND SHALL NOTIFY THE OWNER, ENGINEER, AND LICENSED SITE PROFESSIONAL IMMEDIATELY SO THAT THE APPROPRIATE TESTING AND SUBSEQUENT ACTION CAN BE TAKEN.

OWNER SHALL GRANT WATER AND SEWER UTILITY ACCESS AND MAINTENANCE EASEMENTS TO THE TOWN OF PLAINVILLE AS NEEDED IF AND WHEN REQUIRED.

EROSION AND SEDIMENTATION CONTROL NOTES

UNLESS DIRECTED OTHERWISE, ALL EXISTING TURF OR VEGETATED AREAS WITHIN THE PROPOSED LIMITS OF WORK FOR EXCAVATION, GRADING, OR IMPROVEMENT SHALL BE CLEARED AND GRUBBED. WITHIN THE CLEARING AND GRUBBING AREA, REMOVE ALL TREES, SHRUBS AND ROOTS UNLESS DESIGNATED OTHERWISE. CLEARING SHALL INCLUDE THE FELLING, CUTTING AND OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS AND VEGETATIVE DEBRIS PRODUCED THROUGH THE CLEARING OPERATIONS.

UNLESS OTHERWISE STATED IN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THE EROSION AND SEDIMENTATION CONTROL SPECIFICATIONS SHOWN ON SHEET C100 SHALL BE INSTITUTED.

THE LOCATION OF EROSION AND SEDIMENTATION CONTROL BARRIERS SHOWN ON DRAWINGS ARE INTENDED TO BE MINIMUM REQUIREMENTS AND A GUIDE FOR THE PLACEMENT OF THESE BARRIERS. OTHER MEASURES MAY BE WARRANTED BASED UPON EXPERIENCE AT THE SITE. WHEN NO SEDIMENTATION CONTROL SYSTEM IS SHOWN ON THE DRAWING, THE CONTRACTOR SHALL BE REQUIRED TO ESTABLISH A SYSTEM TO PREVENT SILTATION OR POLLUTION OF ADJACENT PROPERTIES AND PUBLIC RIGHTS-OF-WAY. THE SYSTEMS SHOWN SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING ADDITIONAL BARRIERS OR REPLACING BARRIERS AS REQUIRED BY SITE CONDITIONS. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO THESE SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, MORE SILTATION CONTROL FACILITIES MAY BE REQUIRED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS NEW CONDITIONS THAT MAY BE CREATED.

THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.

AT THE END OF CONSTRUCTION, THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, INCLUDING BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED FROM THE SITE. THE CONTRACTOR SHALL NOT REMOVE ANY SILTATION CONTROLS UNTIL AUTHORIZED (IN WRITING) BY THE OWNER OR OWNER'S REPRESENTATIVE.

PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION AND SEDIMENTATION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO COMPOST FILTER SOCK BARRIERS, SILTATION FENCING, SILTSACK DRAINAGE INLET PROTECTION INSERTS, DIVERSION SWALES, SEDIMENTATION BASINS AND MULCHING AND PLANTING OF DISTURBED AREAS.

EROSION AND SEDIMENTATION CONTROL BARRIERS ARE TO BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOES OF SLOPE AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.

DURING CONSTRUCTION THE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED ONCE PER WEEK AND WITHIN 24 HOURS OF ANY STORM EVENT GENERATING MORE THAN 1/2" OF RAINFALL. THE EROSION CONTROL MEASURES SHALL BE CLEANED REGULARLY AND ADJUSTED IF NECESSARY, TO ENSURE THAT NO SILT OR DEBRIS LEAVES THE SITE.

ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADS. ANY SEDIMENT TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE SWEPT AT THE END OF EACH WORKING DAY.

SUMPS OF EXISTING AND NEW CATCH BASINS SHALL BE CLEANED AS NECESSARY IN CONJUNCTION WITH PERIODIC INSPECTION OF SILTSACK INSERTS TO PREVENT SEDIMENT AND DEBRIS FROM ENTERING THE SUBSURFACE DRAINAGE SYSTEM.

FILTER FABRIC SHALL BE **MIRAFI 140N** OR APPROVED EQUAL.

AFTER INSTALLATION OF EACH DRAINAGE INLET A SILTSACK INLET PROTECTION INSERT WITH BUILT-IN EMERGENCY BYPASS DEVICE SHALL BE INSTALLED BELOW THE GRATE TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM.

AT THE END OF CONSTRUCTION ALL DRAINAGE STRUCTURES ARE TO BE CLEANED OF SILT, STONES AND OTHER DEBRIS. EROSION CONTROL BARRIERS ARE TO BE REMOVED AND DISPOSED OF IN ACCORDANCE TO LOCAL REQUIREMENTS.

CONTRACTOR SHALL PREVENT DUST, SEDIMENT, AND DEBRIS FROM EXITING THE SITE AND SHALL BE RESPONSIBLE FOR CLEANUP, REPAIRS AND CORRECTIVE ACTION IF SUCH OCCURS. ANY DAMAGE RESULTING FROM CONSTRUCTION LOADS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

ALL AREAS DISTURBED DURING CONSTRUCTION AND NOT LEFT IN A NATURAL CONDITION SHALL RECEIVE SIX (6) INCHES OF LOAM AND SEED.

AREAS NOT DISTURBED BY CONSTRUCTION SHALL BE LEFT NATURAL. CARE SHALL BE TAKEN TO PRESERVE EXISTING TREES, GROUND COVER, AND OTHER NATURAL FEATURES WHENEVER POSSIBLE.

AREAS OUTSIDE THE LIMITS OF PROPOSED WORK DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED BY THE CONTRACTOR TO THEIR ORIGINAL STATE AT THE CONTRACTOR'S EXPENSE.

CONTRACTOR SHALL CONTROL STORMWATER RUNOFF DURING CONSTRUCTION TO PREVENT ADVERSE IMPACTS TO OFF SITE AREAS AND SHALL BE RESPONSIBLE TO REPAIR RESULTING DAMAGES, IF ANY, AT NO COST TO OWNER.

ALL STOCKPILE AREAS SHALL BE LOCATED WITHIN EXISTING PAVEMENT AREAS EAST OF LIMITS OF EARTH AND PAVEMENT DISTURBANCE AS SHOWN ON THE SITE PREPARATION, DEMOLITION AND SEDIMENTATION CONTROL PLAN.

ALL DEBRIS GENERATED DURING SITE PREPARATION ACTIVITIES SHALL BE LEGALLY DISPOSED OF OFF-SITE.

PROVIDE CRIBBING AS NECESSARY TO PROTECT EXISTING UTILITY LINES DURING CONSTRUCTION.

SITE ELEMENTS TO REMAIN SHALL BE PROTECTED FOR DURATION OF PROJECT.

ALL TOPSOIL ENCOUNTERED WITHIN WORK AREA SHALL BE STRIPPED TO ITS FULL DEPTH AND STOCKPILED FOR REUSE IN STOCKPILE LOCATIONS DESIGNATED ON THE SITE PREPARATION, DEMOLITION AND SEDIMENTATION CONTROL PLAN. EXCESS TOPSOIL SHALL NOT BE DISPOSED OF UNLESS AUTHORIZED BY THE LSP. TOPSOIL PILES SHALL REMAIN SEGREGATED FROM EXCAVATED SUBSURFACE SOIL MATERIALS.

ALL AREAS THAT ARE DISTURBED DURING CONSTRUCTION AND NOT RECEIVING FINAL STABILIZATION WITHIN 14 DAYS OF DISTURBANCE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION BY SEEDING WITH ANNUAL RYE GRASS AT THE RATE OF FORTY (40) LBS/ACRE.

DUST SHALL BE CONTROLLED BY WATER SPRAYING, TACKIFIER APPLICATION, OR OTHER APPROVED METHODS AS NECESSARY, OR AS DIRECTED BY THE OWNER, OWNER'S REPRESENTATIVE, OR TOWN OF PLAINVILLE OFFICIAL.

EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING ENVIRONMENTALLY SENSITIVE OR JURISDICTIONAL RESOURCE AREAS.

ALL DISTURBED SLOPES EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15 SHALL BE SEEDED OR PROTECTED BY SAID DATE.

LOAMING AND SEEDING OR MULCHING OF NON-PAVEMENT AREAS SHALL TAKE PLACE AS SOON AS PRACTICABLE.

ALL SLOPES WITH SURFACE GRADES STEEPER THAN 3:1 SHALL BE STABILIZED WITH EROSION CONTROL BLANKETS.

COIR FIBER ROLLS, HAYBALES, SILT FENCE OR OTHER SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.

SITE LAYOUT AND MATERIALS NOTES

CONTRACTOR SHALL REPORT SIGNIFICANT CONFLICTS TO THE OWNER OR OWNER'S REPRESENTATIVE FOR RESOLUTION.

ACCESSIBLE ROUTES, PARKING SPACES, RAMPS, SIDEWALKS AND WALKWAYS SHALL BE CONSTRUCTED IN CONFORMANCE WITH FEDERAL AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES AND THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB).

TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WHERE APPLICABLE.

ALL PARKING STRIPING SHALL BE 4" WIDE LINES OF WHITE TRAFFIC PAINT WITH THE EXCEPTION OF CROSSWALKS AND STOP LINES, WHICH SHALL BE 12" WIDE.

PAVEMENT MARKINGS SHALL CONFORM TO SECTION M7.01.05 OF THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS "STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES".

ALL NEW CURBS SHALL BE PRECAST CONCRETE CURBING (PCC) WITH 6" REVEAL UNLESS OTHERWISE INDICATED HEREON. INSTALL 6' LONG TRANSITION CURB STONES AT ALL TRANSITIONS FROM VERTICAL TO FLUSH CURB.

EXISTING CURBS TO REMAIN AS SHOWN HEREON ARE ASSUMED TO BE IN SATISFACTORY CONDITION.

INSTALL EXPANSION AND CONTROL JOINTS IN SIDEWALKS AT INTERVALS OF 5 FEET AND 25 FEET, RESPECTIVELY. PROVIDE BROOM FINISH IN TRANSVERSE DIRECTION OF TRAVEL ON ALL WALKS.

SIDEWALK WIDTHS INDICATED HEREON ARE MEASURED FROM BACK OF CURB TO BACK OF SIDEWALK; 6" WIDTH OF CURBS ARE NOT INCLUDED.

ALL CURB RADIUS DIMENSIONS SHOWN HEREON ARE MEASURED ALONG FACE OF CURB.

REFER TO LAYOUT PLAN FOR EXTENTS OF MILL AND OVERLAY AND FULL DEPTH OF PAVEMENT CONSTRUCTION AND PATCHING WHERE APPLICABLE.

ALL WORK CONDUCTED WITHIN PUBLIC RIGHTS-OF-WAY SHALL CONFORM TO TOWN OF PLAINVILLE REQUIREMENTS AND SPECIFICATIONS.

THE FOLLOWING LAYOUT CRITERIA SHALL CONTROL UNLESS OTHERWISE NOTED ON THE PLAN:

- DIMENSIONS FROM BUILDING ARE FROM FACE OF BUILDING.
- DIMENSIONS ARE TO FACE OF CURB AT GUTTER LINE.
- DIMENSIONS ARE TO THE CENTER OF PAVEMENT MARKINGS.

ALL LINES AND DIMENSIONS AND TIES TO PROPERTY LINES ARE PERPENDICULAR TO THE PROPERTY LINE UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL FURNISH AND SET ALL LINES AND GRADES REQUIRED AND PROTECT ALL PERMANENT BENCHMARKS OR MONUMENTS IF PRESENT. DAMAGED MONUMENTS SHALL BE REPLACED BY A LICENSED SURVEYOR AT NO COST TO THE OWNER.

ALL BITUMINOUS CONCRETE PAVING SHALL COMPLY WITH THE MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, 1988 EDITION AS AMENDED. THE CONTRACTOR SHALL SUBMIT A JOB MIX FORMULA DEMONSTRATING COMPLIANCE WITH THESE SPECIFICATIONS. THE CONTRACTOR SHALL SUPPLY THE ENGINEER WITH A CERTIFICATE OF COMPLIANCE SUPPLIED BY THE PAVING CONTRACTOR.

BITUMINOUS CONCRETE PAVEMENT, CLASS I, TYPE I-1 CONFORMING TO THE STANDARD SPECIFICATIONS, SECTIONS 420 AND 460, AND M3.11.03 FOR BINDER COURSE AND TOP COURSE JOB MIX FORMULAS.

ALL CONCRETE WORK SHALL COMPLY WITH ACI301, "SPECIFICATION FOR STRUCTURAL CONCRETE," AND ACI 316R, UNLESS MODIFIED BY THE CONTRACT DOCUMENTS. COMPLY WITH CRSI'S "MANUAL OF STANDARD PRACTICE" FOR FABRICATING, PLACING, AND SUPPORTING REINFORCEMENT. COMPLY WITH ACI 306.1 FOR COLD WEATHER PROTECTION, AND FOLLOW RECOMMENDATIONS IN ACI 350R FOR HOT WEATHER PROTECTION DURING CURING. COMPLY WITH ACI 304 "GUIDE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE."

SAW-CUT EXISTING PAVEMENT WHERE NEW BITUMINOUS CONCRETE PAVEMENT IS TO COME IN CONTACT. PRIME COAT THE CUT EDGE PRIOR TO PLACEMENT.

CONTRACTOR(S) SHALL THOROUGHLY FAMILIARIZE THEMSELVES WITH ALL CONSTRUCTION DOCUMENTS, SPECIFICATIONS, AND ALL SITE CONDITIONS PRIOR TO CONSTRUCTION.

OUT-OF-FUNCTION OR SCREENED IMAGES REPRESENT EXISTING CONDITIONS. WHERE EXISTING CONDITIONS LIE UNDER OR ARE IMPACTED BY PROPOSED BUILDINGS AND/OR SITE ELEMENTS, THE EXISTING CONDITION WILL BE REMOVED. ABANDONED AND/OR CAPPED OR DEMOLISHED AS REQUIRED.

GRADING NOTES

THE CONTRACTOR SHALL VERIFY EXISTING GRADES IN THE FIELD AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE OWNER OR HIS REPRESENTATIVE.

ALL STUMPS, PEAT, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS ON THE SITE AT THE TIME OF CONSTRUCTION ARE TO BE REMOVED FROM THE SITE AS DIRECTED BY THE LSP. NO SUCH MATERIALS ARE TO BE BURIED OR OTHERWISE DISPOSED OF ON THE SITE. MATERIAL FOR BACKFILL SHALL NOT INCLUDE UNSUITABLE MATERIAL SUCH AS PEAT, TRASH, STUMPS, DEBRIS OR HAZARDOUS WASTE.

FILL MATERIAL SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND SELECTED FROM ON-SITE EXCAVATION MATERIAL WHERE POSSIBLE.

AT ALL LOCATIONS WHERE EXISTING CURBING OR PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING CURB OR PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH EDGE. BLEND NEW PAVEMENT, CURBS AND EARTHWORK SMOOTHLY INTO EXISTING BY MATCHING LINES, GRADES AND JOINTS. PITCH EVENLY BETWEEN SPOT GRADES. GRADE ALL AREAS TO DRAIN.

CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AWAY FROM ALL BUILDING FOUNDATIONS, STRUCTURES, AND PLANTING BEDS.

THE CONTRACTOR SHALL SCHEDULE WORK TO ALLOW THE FINISHED SUBGRADE ELEVATIONS TO DRAIN PROPERLY WITHOUT PONDING. SPECIFICALLY, ALLOW WATER TO ESCAPE WHERE PROPOSED CURB MAY RETAIN RUNOFF PRIOR TO APPLICATION OF THE FINISH SUBGRADE AND/OR SURFACE PAVING. PROVIDE TEMPORARY POSITIVE DRAINAGE AS REQUIRED.

ALL PAVED AREAS MUST PITCH TO DRAIN AT A MINIMUM OF 1/8" PER FOOT UNLESS OTHERWISE SPECIFIED. ANY DISCREPANCIES NOT ALLOWING THIS MINIMUM PITCH SHALL BE REPORTED TO THE OWNER OR HIS REPRESENTATIVE PRIOR TO CONTINUING WORK.

ACCESSIBLE CURB RAMPS, LANDINGS, WALKWAYS, CROSSWALKS, AND PARKING AREAS SHALL BE CONSTRUCTED PER THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (AAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY REQUIREMENTS. WALKWAY AND CROSSWALK ALONG ACCESSIBLE ROUTE(S) SHALL HAVE 5% MAXIMUM LONGITUDINAL SLOPE AND 2% MAXIMUM CROSS SLOPE. LANDINGS AND ACCESSIBLE PARKING SPACES SHALL BE 2% MAXIMUM IN ALL DIRECTIONS. RAMPS SHALL BE 8.3% MAXIMUM.

A GEOTECHNICAL ENGINEER MAY BE RETAINED BY THE OWNER TO OBSERVE PERFORMANCE OF WORK, FOR CONFORMANCE WITH THESE CONTRACT DOCUMENTS, IN CONNECTION WITH EXCAVATING, TRENCHING, FILLING, BACKFILLING AND GRADING, AND TO PERFORM ASSOCIATED FIELD TESTS.

DURING THE PROGRESS OF THE WORK, THE CONTRACTOR MAY BE REQUIRED TO EXCAVATE ADDITIONAL TEST PITS FOR THE PURPOSE OF LOCATING UNDERGROUND UTILITIES OR STRUCTURES AS AN AID IN ESTABLISHING THE PRECISE LOCATION OF NEW WORK. THIS WORK IS TO BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. TEST PITS SHALL BE EXCAVATED AND BACKFILLED IN DIRECT COORDINATION WITH THE LSP.

PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING, WASHOUT AND OTHER HAZARDS CREATED BY CONTRACTOR OPERATIONS.

STOCKPILED TOPSOIL SHALL BE PLACED NEATLY IN AREAS INDICATED ON THE SITE PREPARATION, DEMOLITION, AND SEDIMENTATION CONTROL PLAN.

EXISTING TREES AND SHRUBS OUTSIDE THE LIMITS OF GRADING SHALL BE REMOVED ONLY UPON PRIOR APPROVAL OF THE OWNER.

FILL DEPRESSIONS CAUSED BY TEST PITS AND CLEARING AND GRUBBING OPERATIONS WITH SATISFACTORY SOIL MATERIAL UNLESS FURTHER EXCAVATION OR EARTHWORK IS INDICATED.

THE CONTRACTOR SHALL PREVENT SURFACE WATER AND SUBSURFACE OR GROUNDWATER FROM FLOWING INTO EXCAVATIONS OR EARTHWORK AREAS WHICH WOULD CAUSE FLOODING OF THE PROJECT SITE AND SURROUNDING AREA, OR SOFTENING OR LOOSENING OF THE SOIL AT EXCAVATION OR EARTHWORK SUB-GRADES.

THE CONTRACTOR SHALL PROVIDE, INSTALL, OPERATE, MAINTAIN AND REMOVE ADEQUATE AND SATISFACTORY DEWATERING SYSTEMS AND DRAINAGE OF EXCAVATIONS TO PERMIT CONSTRUCTION TO PROCEED "IN THE DRY". DEWATERING OPERATIONS SHALL BE OVERSEEN BY THE LSP. THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE ADEQUACY OF THE METHODS, MATERIALS AND EQUIPMENT EMPLOYED. THE CONTRACTOR SHALL BEAR THE FULL COST OF PROVIDING ALL NECESSARY DEWATERING.

THE CONTRACTOR SHALL PROHIBIT SEEPAGE, GROUNDWATER FLOW OR SURFACE INFILTRATION AND RUNOFF FROM UNDERMINING OR OTHERWISE DAMAGING ADJACENT STRUCTURES AND UTILITIES.

PAVING, CONCRETE WORK AND BASE COURSE PREPARATION SHALL BE DONE ONLY AFTER EXCAVATION AND CONSTRUCTION WORK WHICH MIGHT INJURE THEM HAS BEEN COMPLETED. DAMAGE CAUSED DURING CONSTRUCTION SHALL BE REPAIRED BEFORE ACCEPTANCE.

PAVEMENT OR BASE MATERIALS SHALL NOT BE PLACED ON MUDDY OR FROZEN SUBGRADE.

ESTABLISHMENT OF GRADES, GRADE CONTROL, AND CONFORMANCE TO REQUIRED GRADE TOLERANCES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

PROTECT GRADED, FINISHED OR PAVED AREAS FROM DAMAGE AND KEEP THEM FREE OF TRASH AND DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS. REPAIR AND RE-ESTABLISH GRADES IN SETTLED, ERODED AND RUTTED AREAS.

PAVEMENT, LAWN OR PLANTING AREAS EXCAVATED DURING UTILITY CONSTRUCTION, WHETHER ON THE SITE OR ADJACENT PROPERTIES, SHALL BE RESTORED AND MATCHED WITH EXACTLY THE SAME MATERIALS AND TOLERANCES AS PRIOR TO DISRUPTION, AT NO ADDITIONAL COST TO THE OWNER, OR ADJACENT PROPERTY OWNERS.

DRAINAGE NOTES

ALL STORM DRAIN PIPES SHALL BE SMOOTH INTERIOR CORRUGATED HIGH DENSITY POLYETHYLENE (HDPE) UNLESS OTHERWISE NOTED. INSTALLATION OF ALL DRAINAGE STRUCTURES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION.

MANHOLES SHALL BE 48-INCH DIAMETER REINFORCED CONCRETE (UNLESS OTHERWISE SPECIFIED). CAST-IN-PLACE BASES SHALL BE USED WHERE MANHOLES ARE CONSTRUCTED OVER EXISTING PIPES.

FRAMES, GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE. ADJUST FOR FRAMES, GRATES AND COVERS SHALL BE SET FIRM AND TRUE TO GRADE; ADJUST FOR GRADE WITH BRICK MASONRY.

PRECAST CONCRETE STRUCTURES INCLUDING WATER QUALITY UNITS, OUTLET CONTROL STRUCTURES, BARREL SECTIONS, CATCH BASINS AND BASES SHALL CONFORM TO ASTM C478 AND AASHTO HS25. PLACEMENT SHALL BE IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. ALL PRECAST STRUCTURES INCLUDING JOINTS, SEALS, OPENINGS, ETC. MUST BE WATERTIGHT.

AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN MANHOLES.

UNDERGROUND DETENTION SYSTEM SHALL BE FERGUSON/ACF R-TANK PREFABRICATED STORAGE MODULES EMBEDDED IN CRUSHED STONE AND SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION OF ALL R-TANK SYSTEMS SHALL BE OVERSEEN BY MANUFACTURER'S REPRESENTATIVE.

ALL DRAIN LINES SHOWN SHALL BE 12" DIAMETER UNLESS OTHERWISE NOTED.

UTILITY NOTES

THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON EXISTING CONDITIONS PLANS AND POTENTIALLY INFORMATION PROVIDED BY THE LOCAL MUNICIPALITY. ADDITIONAL INFORMATION MAY BE SUPPLEMENTED BY FIELD INVESTIGATIONS WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 8-1-1.

UNDERGROUND UTILITIES WERE COMPILED FROM AVAILABLE RECORD PLANS OF UTILITY COMPANIES AND PUBLIC AGENCIES AND ARE APPROXIMATE AND ASSUMED.

ALL PVC SANITARY GRAVITY SEWER PIPES SHALL BE SDR 35 WITH RUBBER RING JOINTS. ALL PVC SANITARY PRESSURIZED SEWER PIPES SHALL BE SDR-21.

THE TOWN OF PLAINVILLE WATER AND FIRE DEPARTMENTS SHALL BE NOTIFIED PRIOR TO THE START OF ANY WORK ON THE WATER SYSTEM.

THE PROPOSED LOOPED WATER MAIN SHALL BE CLASS 52 CEMENT-LINED DUCTILE IRON (CLDI). ALL FITTINGS, HYDRANTS, VALVES, ETC., USED ON THE SITE SHALL BE IN ACCORDANCE WITH TOWN OF PLAINVILLE WATER DEPARTMENT SPECIFICATIONS.

HYDRANTS AND MINIMUM SIZING OF WATER PIPES SHALL BE SUBJECT TO THE APPROVAL OF THE PLAINVILLE FIRE CHIEF.

THE CONTRACTOR SHALL NOTIFY THE PLAINVILLE DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.

NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS SHALL BE LEFT WITHIN 6" OF WATER AND SEWER LINES IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.

THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.

EXCAVATION SHALL BE TO THE LINES AND ELEVATIONS AS SHOWN ON THE PLANS.

ALL MATERIALS FOR INSTALLATION OF WATER, SEWER, DRAIN, ELECTRICAL, TEL/DATA, GAS AND SITE LIGHTING SERVICES SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND UTILITY COMPANY STANDARDS AND REGULATIONS AS THEY APPLY.

ALL BENDS, TEES, VALVES, AND HYDRANTS ARE TO BE SECURED BY MEANS OF MEGALUG JOINT RESTRAINTS.

THREE CUBIC FEET OF CRUSHED STONE IS TO BE PLACED AROUND THE DRAIN HOLE IN ALL HYDRANTS. HYDRANTS ARE TO CONFORM TO PLAINVILLE STANDARD CONSTRUCTION SPECIFICATIONS AS APPLICABLE.

UNLESS OTHERWISE NOTED ALL UTILITY TRENCHES ARE TO BE BACKFILLED WITH BANK RUN GRAVEL. NO STONES GREATER THAN 3" IN DIAMETER ARE TO BE USED WITHIN 12" OF THE PIPES. THE TRENCHES, WHEN UNDER PROPOSED PAVED AREAS, ARE TO BE MECHANICALLY COMPACTED IN 12" LIFTS.

MODIFICATION AND/OR RELOCATION OF EXISTING MONITORING WELL SAMPLING AND ACCESS PORTS SHALL BE COORDINATED WITH AND OVERSEEN BY BASF AND OR THEIR LSP CONSULTANT.

ALL EXISTING MONITORING WELL SAMPLING AND INSPECTION ACCESS PORTS THAT ARE TO REMAIN SHALL BE ADJUSTED TO BE FLUSH WITH PROPOSED PAVEMENT OR LANDSCAPE FINISH GRADES UNLESS OTHERWISE NOTED.

CONTRACTOR SHALL PROTECT ALL UNDERGROUND DRAINAGE, SEWER AND UTILITY FACILITIES FROM EXCESSIVE VEHICULAR LOADS DURING CONSTRUCTION. ANY DAMAGE TO THESE FACILITIES RESULTING FROM CONSTRU

EXISTING SYMBOL LEGEND

	GAS GATE
	GAS METER
	GAS SHUT OFF
WG	WATER GATE
	WATER SHUT OFF
	WATER METER
E	ELECTRIC METER
	TRAFFIC CONTROL CABINET
UG	UTILITY GATE (UNKNOWN TYPE)
	FIRE HYDRANT
	UTILITY POLE
	GUY WIRE ANCHOR
W	WATER MANHOLE
D	DRAIN MANHOLE
S	SEWER MANHOLE
E	ELECTRIC MANHOLE
T	TELECOM MANHOLE
ST	STEAM MANHOLE
	CATCH BASIN
	CATCH BASIN (D FRAME)
	CATCH BASIN (ROUND)
HH	HAND HOLE
	HYDRANT
	BOLLARD
	LIGHT POLE
	FLOODLIGHT
	TRAFFIC SIGNAL
	TREE (SIZE INCHES)
	BUSH (SIZE FEET)
MW#	MONITORING WELL
WF#	WETLAND FLAG
G	GAS LINE
T	TELEPHONE LINE
D	DRAIN LINE
S	SEWER LINE
E	ELECTRIC LINE
W	WATER LINE
	OVERHEAD ELECTRIC
	STONE WALL
	CHAIN LINK FENCE
	TREELINE
	WETLAND
	FLARED END SECTION
RAILROAD	RR
RET.	RETAINING
CONC.	CONCRETE
BIT.	BITUMINOUS
X 100.00	SPOT GRADE
S=100.00	DOOR SILL ELEVATION
ADA	DETECTABLE WARNING PAD
(FND)	FOUND
(R)	RECORD
SB	STONE BOUND
CB	CONCRETE BOUND
DH	DRILL HOLE
IP	IRON PIPE
IR	IRON ROD
PK	PARKER-KALON NAIL
MAG	MAG NAIL
SPK	SPIKE
EP	ESCUTCHEON PIN
	BENCHMARK
	TRAVERSE (CONTROL) POINT
	SIGN
MHB RC	MASS HIGHWAY BOUND REAR CENTER
	PROJECT AREA

LAYOUT & MATERIALS LEGEND

CC	CONCRETE CURB
CCB	CAPE COD BERM
PCC	PRECAST CONCRETE CURB
FGC	FLUSH GRANITE CURB
VGC	VERTICAL GRANITE CURB
EOP	EDGE OF PAVEMENT (NO CURB)
GTS	GRANITE TRANSITION STONE
VCC	VERTICAL CONCRETE CURB
TC	TRANSITION CURB
HP	HANDICAP PARKING STALL
	ACCESSIBLE PARKING PAVEMENT MARKER
	SIGN
R=10'	CURB RADIUS
LS	LANDSCAPE AREA
6	PARKING COUNT
8	TRAILER DOCKS
SL	TRAFFIC STOP LINE (12" WHITE)
	TRAFFIC MARKING DIRECTIONAL
	PROPOSED ADDRESS/IDENTITY SIGN LOCATION
	HANDICAP RAMPS
EN	ENTRANCE
LD	LOADING DOCK
	LIGHT BOLLARD
	PEDESTRIAN LIGHT
	PARKING LOT LIGHT
	WALL PACK
B	PIPE BOLLARD
	OUTDOOR BIKE RACK
	BITUMINOUS CONCRETE PAVEMENT
	CAST-IN-PLACE CONCRETE
	GRAVEL DRIVE
	HEAVY DUTY BITUMINOUS CONCRETE PAVEMENT
	PERVIOUS PAVEMENT
C.L.L.	CONSTRUCTION LIMIT LINE
	PROPERTY LINE
	STORMWATER DETENTION AREA
	RETAINING WALL
	SAWCUT & PAVEMENT PATCH AREA
T	ELECTRICAL TRANSFORMER
EV	ELECTRIC VEHICLE CHARGING STATION

GRADING & UTILITIES LEGEND

118	ELEVATION CONTOUR
117x0	SPOT ELEVATION
TC 107.50 / BC 107.00	TOP AND BOTTOM OF CURB
TW 98.50 / BW 96.00	TOP AND BOTTOM OF WALL
	CATCH BASIN
	DRAIN MANHOLE
	CONTECH CDS WATER QUALITY UNIT
	CONTECH CDS WATER QUALITY UNIT
	OUTLET CONTROL MANHOLE STRUCTURE
	OUTLET CONTROL BOX STRUCTURE
	LANDSCAPE AREA DRAIN
	RAIN GUARDIAN (TURRET)
	BEEHIVE OVERFLOW
	STORM DRAIN
	FLARED END SECTION
	TRENCH DRAIN
	SIGN
HP	HIGH POINT
	BY-PASS STRUCTURE
	EARTHEN CHECK DAM
	RIP RAP
FES	FLARED END SECTION
RD	ROOF DRAIN
W — W	WATER SERVICE
SS — SS	SEWER LINE
FM	SEWER FORCE MAIN
GAS — GAS	GAS LINE
OHW — OHW	OVER HEAD WIRES
ETC — ETC	PROPOSED CABLE TV / ELECTRICAL / TELCOM DUCT BANK
	SANITARY MANHOLE
P	PUMP STATION
	FORCE MAIN CLEANOUT
	FLOW ARROW
T	ELECTRIC TRANSFORMER
	UTILITY VAULT
	HYDRANT
WG	WATER GATE
CLDI	CEMENT LINE DUCTILE IRON PIPE
SDR	STANDARD DIMENSION RATIO
BFP	BACK-FLOW PREVENTER
SCH	PIPE SCHEDULE
PEX	POLYETHYLENE CROSS LINKED PIPE
HDPE	HIGH-DENSITY POLYETHYLENE

DEMOLITION & EROSION CONTROL LEGEND

S/D/R	SAWCUT, DEMOLISH AND REMOVE
C/C	CUT AND CAP
D/R	DEMOLISH AND REMOVE
R/D	REMOVE AND DISPOSE
M/P	MAINTAIN AND PROTECT
R/S	REMOVE AND STOCKPILE
	SAWCUT, DEMOLISH AND REMOVE ASPHALT OR CONCRETE PAVEMENT/SIDEWALK TO FULL BASE DEPTH
	REMOVE TOPSOIL AND ALL VEGETATION AND SURFACE FEATURES, OVER-EXCAVATE AS NECESSARY
	CLEAR WOODED VEGETATION AND TOPSOIL; OVER-EXCAVATE AS NECESSARY
	DEMOLISH AND REMOVE CURB OR BERM
	DEMOLISH AND REMOVE EXISTING UNDERGROUND DRAINAGE/UTILITY INFRASTRUCTURE
	DEMOLISH AND REMOVE
	PROPOSED SILTSACK INLET PROTECTION DEVICE
FSB	PROPOSED FILTER SOCK EROSION CONTROL BARRIER
CF	ORANGE VINYL CONSTRUCTION FENCE AT LIMIT OF WORK
	CHAIN LINK SECURITY FENCE
	SECURITY FENCE SWING GATE

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CLIENT:

THE SHEARWATER COMPANIES

CONSULTANT:

SEAL

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DOUGLAS J. HAUTNETT
CIVIL
No. 32795
REGISTERED PROFESSIONAL ENGINEER
05.24.2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION

ISSUE DATE:
3.24.2022

PROJECT NUMBER:
21018

DRAWN BY: AB

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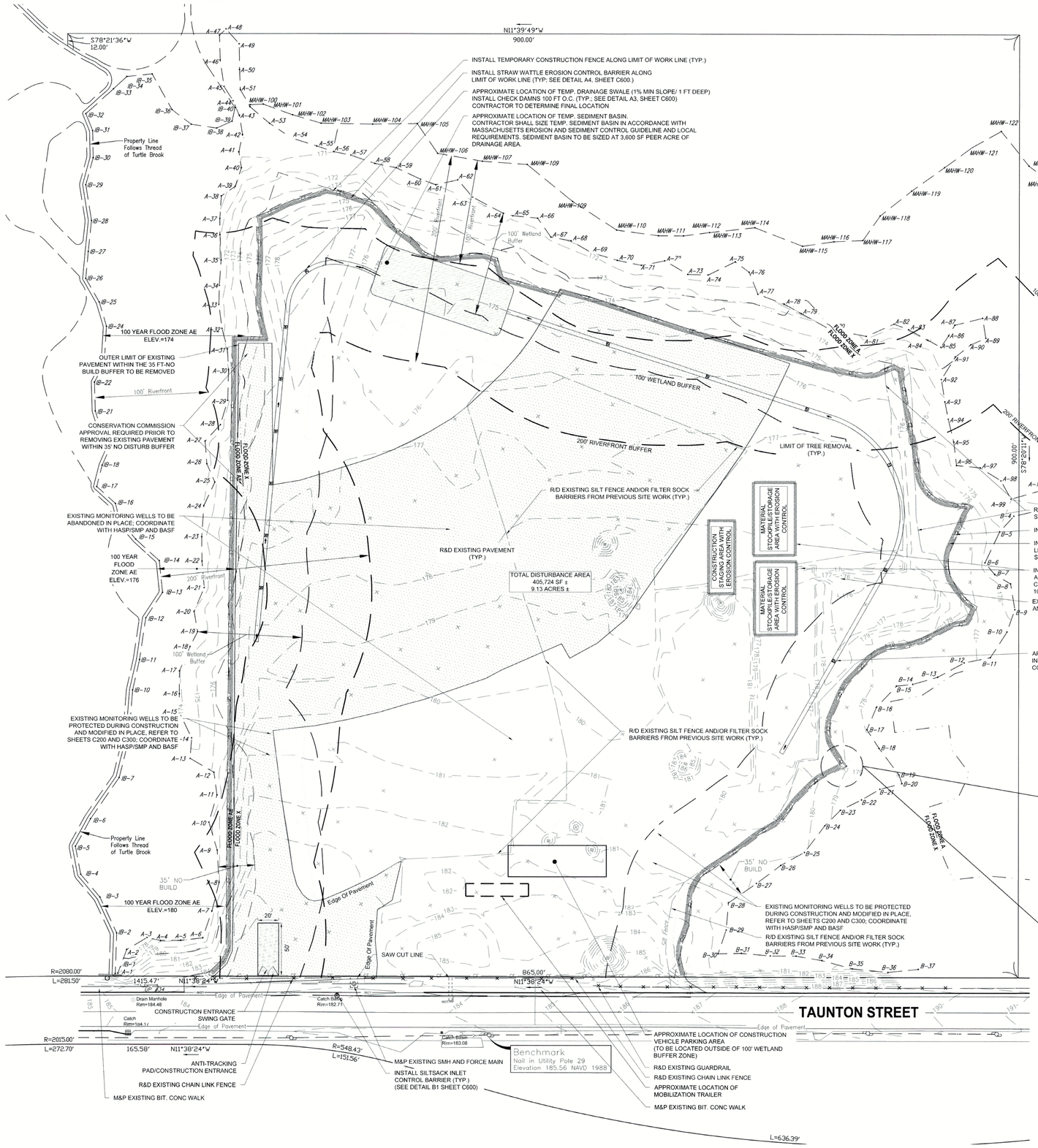
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SHEET TITLE:

GENERAL
LEGEND SHEET

SHEET NUMBER:

G002



SITE PREPARATION, DEMOLITION AND EROSION CONTROL NOTES

1. THIS PLAN AND ALL NOTES PROVIDED HEREON SHALL BE COORDINATED WITH THE GENERAL EROSION & SEDIMENTATION CONTROL NOTES ON SHEET G001.
2. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW. ALL WORK SHALL COMPLY WITH THE CRITERIA OUTLINED TO PREVENT OR MINIMIZE SOIL EROSION.
3. DISTURBANCE OF BORDERING LAND SUBJECT TO FLOODING, WETLAND BUFFER ZONES, AND RIVERFRONT AREA IS SUBJECT TO REVIEW AND APPROVAL BY THE PLAINVILLE CONSERVATION COMMISSION. IT IS THE INTENT OF THIS PLAN TO COMPLY WITH THE WETLANDS PROTECTION ACT, AS AMENDED.
4. CONTRACTOR SHALL NOTIFY DIG-SAFE AT 8-1-1 AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IN WRITING OF ANY AND ALL DISCREPANCIES BETWEEN THESE PLANS AND OBSERVED EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING ROADS, DRIVEWAYS, AND PARKING AREAS; CONTROLLING DUST; AND TAKING ALL NECESSARY MEASURES TO ENSURE THAT ALL PAVED AREAS ADJACENT TO THE WORK SITE ARE MAINTAINED IN A CLEAN, SEDIMENT- AND DUST-FREE CONDITION AT ALL TIMES.
6. SITE IS WITHIN AN AUL (ACTIVITY AND USE LIMITATION) AREA. ANY EXCAVATION, HAULING OR STOCKPILING ACTIVITIES SHALL BE COORDINATED WITH THE LICENSED SITE PROFESSIONAL (LSP) AND THE LSP'S HEALTH AND SAFETY PLAN AND SOILS MANAGEMENT PLAN (HASP/SMP). PRIOR TO CONSTRUCTION AND MUST MEET LOCAL, STATE AND FEDERAL GUIDELINES. ANY STOCKPILED EXCAVATION MATERIALS LEFT ON SITE FOR MORE THAN 24 HOURS SHALL BE PROTECTED WITH FILTER SOCK BARRIERS AND SHALL BE COVERED WITH A SPREAD HAY MULCH AND WOVEN NETTING OR EROSION CONTROL MATTING WHEN LEFT EXPOSED. ANY SUCH STOCKPILE AREAS SHALL BE PLACED IN AN UPLAND LOCATION AT LEAST 100 FEET FROM ALL WETLAND RESOURCE AREAS AND WATER BODIES AND SHALL BE COMPLETELY REMOVED PRIOR TO PROJECT CLOSE-OUT. CONTRACTOR SHALL COORDINATE WITH OWNER OR OWNER'S REPRESENTATIVE REGARDING STOCKPILE AREA LOCATIONS.
7. STRAW WATTLE BARRIERS SHALL BE INSTALLED AT THE PROPOSED DOWN GRADIENT TOES OF SLOPES AT ALL LOCATIONS WHERE EARTHWORK IS PROPOSED.
8. EROSION CONTROL MATTING SHALL BE MIRAFI "MIRAMAT TM6" GEOSYNTHETIC EROSION CONTROL MAT OR APPROVED EQUAL. CONTRACTOR SHALL ADHERE TO MANUFACTURER SPECIFICATIONS FOR PLACEMENT AND INSTALLATION.
9. FILTER FABRIC SHALL BE "MIRAFI 140 N", "PHILLIPS SUPAC S-P", OR APPROVED EQUAL. CONTRACTOR SHALL ADHERE TO MANUFACTURER SPECIFICATIONS FOR PLACEMENT AND INSTALLATION.
10. ASPHALT PAVEMENT TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE UNLESS OTHERWISE INDICATED HEREON.
11. ALL CURBS, IF EXISTING, TO BE DEMOLISHED SHALL BE REMOVED TO FULL DEPTH OF GRAVEL BASE.
12. TRENCHING LIMITS FOR NEW DRAINAGE AND UTILITY INSTALLATIONS NOT SHOWN HEREON. REFER TO SITE GRADING AND DRAINAGE PLAN (SHEET C300), SITE UTILITY PLAN (SHEET C400) AND SITE DETAILS (SHEET C600-605) FOR DRAINAGE/UTILITY LAYOUT AND TRENCHING DETAILS.
13. SILTSACK INLET PROTECTION DEVICES SHALL BE INSTALLED AT ALL LOCATIONS INDICATED HEREON PRIOR TO CONSTRUCTION AND SHALL REMAIN IN PLACE FOR DURATION OF CONSTRUCTION ACTIVITIES, OR UNTIL REMOVAL OF EXISTING STRUCTURES TO ACCOMMODATE NEW CONSTRUCTION, WHERE APPLICABLE.
14. ALL DEMOLITION AND SITE PREPARATION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH PLAINVILLE DEPARTMENT OF PUBLIC WORKS STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL COORDINATE ALL NECESSARY INSPECTIONS WITH THE PLAINVILLE BUILDING DEPARTMENT.
15. ALL ACTIVITIES ASSOCIATED WITH REMOVAL OF EXISTING WATER UTILITIES ARE SUBJECT TO REVIEW AND APPROVAL BY THE PLAINVILLE WATER DEPARTMENT.
16. THE EROSION CONTROL MEASURES SHOWN AND DESCRIBED HEREON SHALL BE CONSIDERED MINIMUM STANDARDS.
17. CONTRACTOR SHALL KEEP ON SITE, AT ALL TIMES, ADDITIONAL FILTER SOCK, CONSTRUCTION FENCE, AND SILTSACK MATERIALS FOR EMERGENCY INSTALLATION OR FOR INSTALLATION AT THE DIRECTION OF THE OWNER, THE ENGINEER, OR THE TOWN OF PLAINVILLE REPRESENTATIVE.
18. CONTRACTOR SHALL INSPECT AND REPAIR EROSION AND SEDIMENT CONTROL DEVICES AT THE END OF EACH WORKING DAY AND WITHIN 24 HOURS OF EACH RAINFALL EVENT.
19. PAVED SURFACES SHALL REMAIN IN PLACE AS LONG AS POSSIBLE TO PREVENT SOILS FROM MIGRATING OFF THE SITE. CONTRACTOR TO COORDINATE.
20. CONSTRUCTION FENCE SHALL BE STAKED ORANGE VINYL SNOW FENCE OR APPROVED EQUAL AND SHALL REMAIN FOR DURATION OF CONSTRUCTION.
21. TREE REMOVAL WORK DONE OUTSIDE THE PROPERTY LINE TO BE CORDINATED WITH THE PROPERTY OWNER AND THE TOWN OF PLAINVILLE.

SYMBOL LEGEND	
M&P	MAINTAIN AND PROTECT
R&D	REMOVE AND DISPOSE
	REMOVE PAVEMENT TO FULL DEPTH
	REMOVE GRAVEL TO FULL DEPTH
	LIMIT OF TREE REMOVAL
	ANTI-TRACKING PAD/STABILIZED CONSTRUCTION ENTRANCE
×	DEMOLISH AND REMOVE SURFACE FEATURE
⊗	PROPOSED SILTSACK INLET PROTECTION DEVICE
	PROPOSED STRAW WATTLE EROSION CONTROL BARRIER
—CF—	CONSTRUCTION FENCE
—LOW—	LIMIT OF WORK
	SAWCUT LINE
	TEMPORARY DRAINAGE SWALE WITH CHECK DAM 100 FT O.C

50 0 25 50 100 200
GRAPHIC SCALE 1 inch = 50 ft.

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DOUGLAS J. HARTNETT
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No. 37705
REGISTERED PROFESSIONAL ENGINEER
05/24/2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION
ISSUE DATE:
3.24.2022
PROJECT NUMBER:
21018

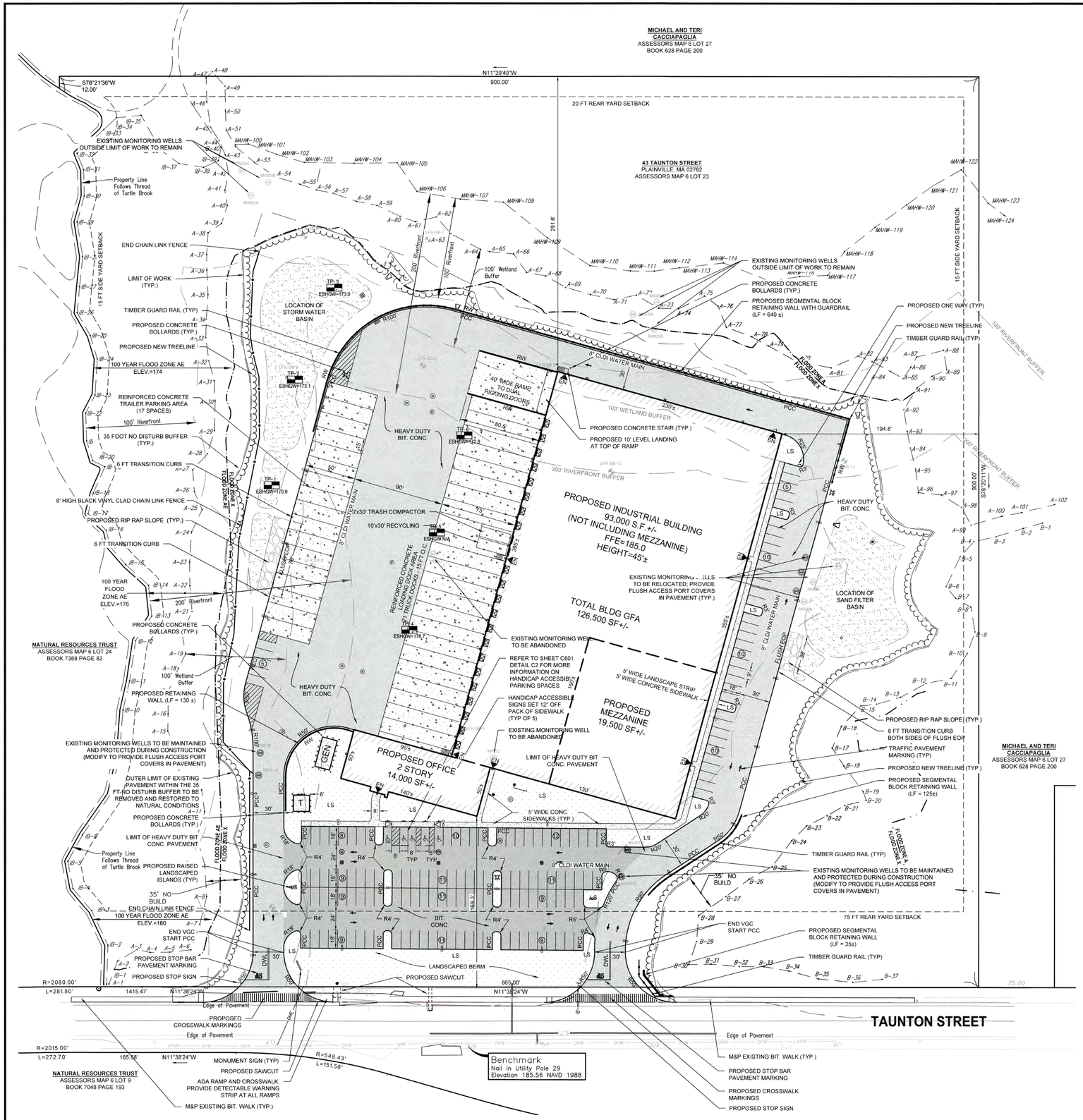
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SHEET TITLE:
SITE PREPARATION, DEMOLITION, & SEDIMENTATION CONTROL PLAN

SHEET NUMBER:
C100

P:\Shearwater Companies (The)\21018 (43 Taunton St, Plainville T&M)\04_Design\Dwg\03_DD\21018_EC.dwg



ZONING SUMMARY

ZONING DISTRICT:	SHOPPING CENTER COMMERCIAL DISTRICT (CA)
OVERLAY DISTRICT	FLOODPLAIN DISTRICT

CRITERIA	REQUIRED	EXISTING	PROPOSED
LOT AREA (MIN)	30,000 SF	785,063 SF	NO CHANGE
LOT WIDTH (MIN)	200 FT	882+/-FT	NO CHANGE
LOT FRONTAGE (MIN)	150 FT	866+/-FT	NO CHANGE
SETBACKS (MIN)			
FRONT	75 FT	NA	169.3 FT
SIDE	15 FT	NA	194.8 FT
REAR	20 FT	NA	291.6 FT
BUILDING COVERAGE (MAX)	45%	NA	13%
LANDSCAPED OPEN SPACE (FRONT YARD	20%	NA	75.00%
FAR	NA	NA	0.16
BUILDING HEIGHT (MAX)	2 STORIES	NA	44 FT

PARKING SUMMARY

	PARKING ALLOTMENT REQUIREMENTS				
BUILDING USE	**RATE REQUIRED**	**CRITERIA**	**REQUIRED SPACES**	**PROPOSED SPACES**	**COMPLIANCE**
OFFICE	**1 PER 300 SF**	**14,000 SF**	47		
MANUFACT./INDUSTRIAL	SEE NOTE 1		146		
		TOTAL	193		
	PROPOSED PARKING AND LOADING				
VEHICULAR PARKING				159	
TRAILER PARKING				17	
LOADING				21	
		TOTAL		197	YES (SEE NOTE 2)

NOTES
1.3 SPACES PER 1,000 SF
REDUCTION, IF NECESSARY, PENDING FINAL BUILDING PROGRAMMING.

PARKING DIMENSIONAL SUMMARY

CRITERIA	REQUIRED (FT)	PROPOSED (FT)	COMPLIANCE
STALL WIDTH	9 FT	9 FT	YES
STALL DEPTH	18 FT	18 FT	YES
ACCESIBLE STALLS	8 FT	18 FT	YES
VAN ACCESSIBLE STALLS	8 FT	18 FT	YES
DRIVE LANE (MIN)	NA	NA	NA
DRIVEWAY WIDTH (MIN)	NA	NA	NA
STREET SETBACK	NA	NA	NA
ENTRANCE/EXIT WIDTH (MAX)	30 FT	30 FT	
NOTES			
LANDSCAPING- LOTS WITH 10 OR MORE SPACES REQUIRE LANDSCAPING. PLANTING BEDS SHALL BE AT LEAST 5 FT WIDE. ONE TREE			
PROVIDED FOR EVERY 10 SPACES AND LOCATED WITHIN PARKING AREA (2 IN DIAMETER) TWO SHRUBS FOR EVERY PARKING SPACE			
(SHRUBS LOCATED IN PARKING AREA AND SHALL BE AT LEAST 1.5 FT IN HEIGHT AND TWO YEARS OF GROWTH			

BUILDING SUMMARY

INDUSTRIAL USE	93,000± SF				
OFFICE USE	14,000± SF				
MEZZANINE USE	19,500± SF				
TOTAL	126,500± SF				

SYMBOL LEGEND

EOP	EDGE OF PAVEMENT
VGC	VERTICAL GRANITE CURB
PCC	PRECAST CONCRETE CURB
DWL	DOUBLE WHITE CENTER LINE
(12)	PROPOSED PARKING SPACE COUNT
	PROPOSED HEAVY DUTY BIT. CONC
	PROPOSED BIT. CONC.
	PROPOSED LOAM AND SEED (LS)
	PROPOSED CONCRETE
	EXISTING BIT CONC. WALK TO REMAIN
LOW	PROPOSED LIMIT OF WORK
EN	PROPOSED BUILDING EGRESS
RW	PROPOSED RETAINING WALL
T GEN	PROPOSED ELECTRICAL PADS
	PROPOSED ACCESSIBLE STALL
	PROPOSED TREE LINE
	PROPOSED TIMBER GUARD RAIL
	PROPOSED LOADING DOCK
(EW)	RELOCATED MONITORING WELL

50 0 25 50 100 200
GRAPHIC SCALE 1 inch = 50 ft.

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REGISTERED PROFESSIONAL ENGINEER
03/24/2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

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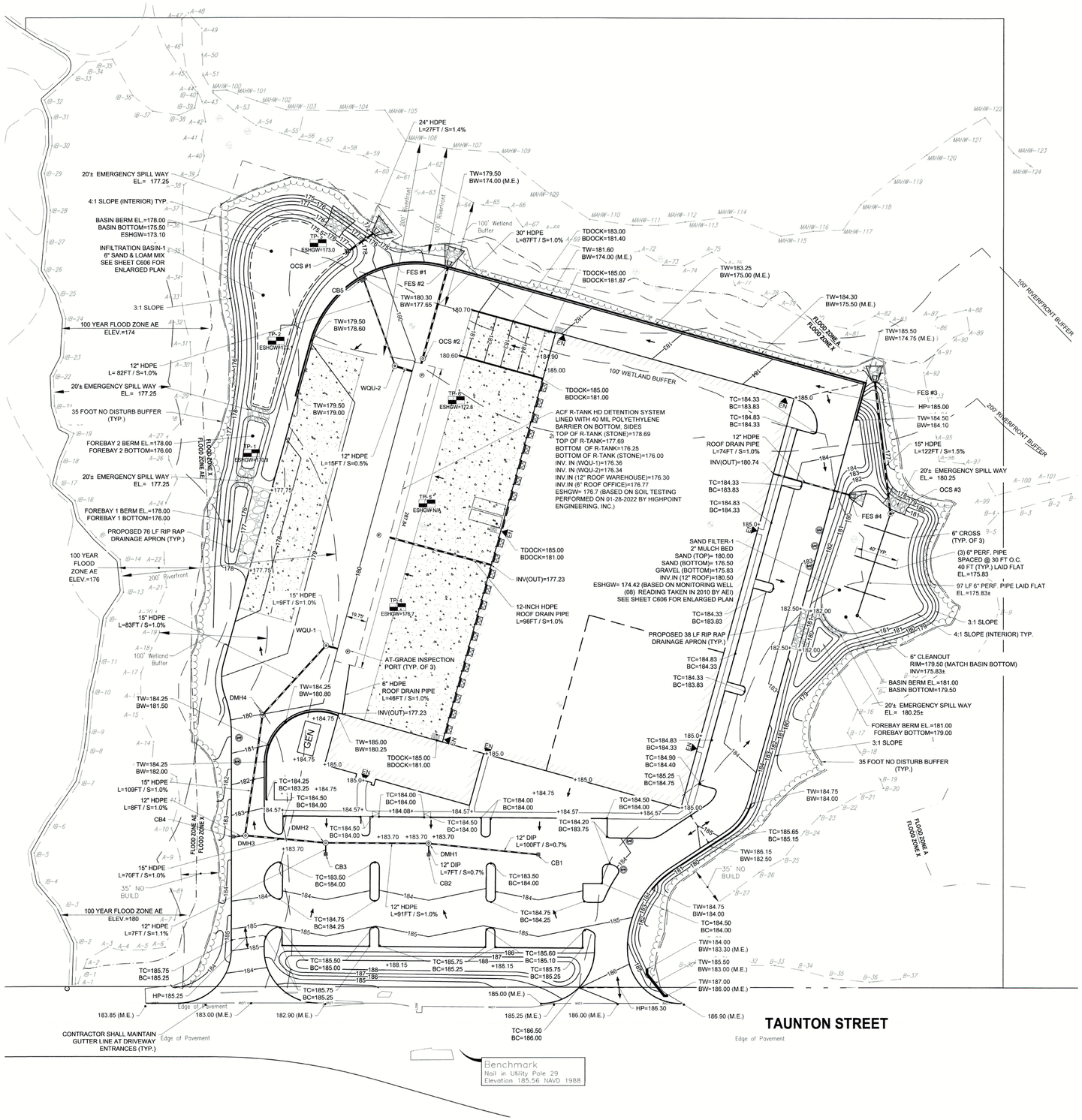
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SHEET TITLE:
SITE LAYOUT & MATERIALS PLAN

SHEET NUMBER:
C200



GRADING/DRAINAGE NOTES

1. AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN MANHOLES.
2. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PLAINVILLE DEPARTMENT OF PUBLIC WORKS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
3. EXCAVATION SHALL BE TO THE LINES AND ELEVATIONS AS SHOWN ON THE PLANS.
4. FILL MATERIAL SHALL BE AS SPECIFIED BY THE GEOTECHNICAL/CIVIL/SITE ENGINEER AND SELECTED FROM ON-SITE EXCAVATION MATERIAL WHERE POSSIBLE. ANY MATERIAL STAGED FOR REMOVAL SHALL BE APPROVED BY THE LSP PRIOR TO REMOVAL FROM THE PROJECT SITE.
5. MATERIAL FOR BACKFILL SHALL NOT INCLUDE UNSUITABLE MATERIAL SUCH AS PEAT, TRASH, STUMPS, DEBRIS OR HAZARDOUS WASTE.
6. ALL STUMPS, PEAT, CONSTRUCTION DEBRIS AND OTHER DELETERIOUS MATERIALS ON THE SITE AT THE TIME OF CONSTRUCTION ARE TO BE REMOVED FROM THE SITE TO AN APPROVED LANDFILL. NO SUCH MATERIALS ARE TO BE BURIED OR OTHERWISE DISPOSED OF ON THE SITE. ANY MATERIAL STAGED FOR REMOVAL SHALL BE APPROVED BY THE LSP PRIOR TO REMOVAL FROM THE PROJECT SITE .
7. THREE CUBIC FEET OF CRUSHED STONE IS TO BE PLACED AROUND THE DRAIN HOLE IN ALL HYDRANTS. HYDRANTS ARE TO CONFORM TO THE TOWN OF PLAINVILLE STANDARD SPECIFICATIONS.
8. NO LEDGE, BOULDERS OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF DRAINAGE PIPES, NOR ARE THEY TO BE USED FOR BACKFILL.
9. UNLESS OTHERWISE NOTED ALL UTILITY TRENCHES ARE TO BE BACKFILLED WITH BANK RUN GRAVEL. NO STONES GREATER THAN 3" IN DIAMETER ARE TO BE USED WITHIN 12" OF THE PIPE. THE TRENCHES, WHEN UNDER PROPOSED PAVED AREAS, ARE TO BE MECHANICALLY COMPACTED IN 12" LIFTS.
10. ALL CATCH BASINS ARE TO HAVE AN OIL AND GREASE TRAP INSTALLED IN THE OUTLET PIPE.
11. ALL EARTHEN PERIMETER SIDE SLOPES THAT ARE GRADED AND ARE NOT SCHEDULED FOR PERMANENT STABILIZATION WITHIN 30 DAYS OF OF COMPLETION ARE TO BE COVERED WITH HAY OR WOOD CHIP MULCH, BIODEGRADABLE EROSION CONTROL FABRIC, OR HYDROSEEDED WITH A TEMPORARY GRASS MIXTURE IF WEATHER CONDITIONS WILL BE CONDUCIVE TO GERMINATION OF THE SEED.
12. PRIOR TO THE INSTALLATION OF ANY STORM DRAINAGE, THE PROPOSED STORM WATER DETENTION BASINS ARE TO BE ROUGH GRADED AND USED AS TEMPORARY SEDIMENTATION BASINS. SIDE SLOPES, IF NOT CONSTRUCTED TO FINAL GRADE, ARE TO BE TEMPORARILY STABILIZED WITH MULCH, PLANTINGS, OR FABRIC.

DRAINAGE SCHEDULE

CB #1		DMH #1		OCS #1	
RIM	= 183.10	RIM	= 183.30	RIM	= 177.00
INV(OUT)	= 180.75	INV IN	= 180.10	INV OUT	= 174.25
		INV OUT	= 180.10		
CB #2				OCS #2	
RIM	= 183.30	DMH #2		RIM	= 180.00
INV(OUT)	= 181.15	RIM	= 183.30	TOP WEIR	= 177.75
		INV IN	= 179.14	BOTTOM WEIR	= 176.75
CB #3		INV IN(CB3)	= 179.22	INV IN	= 176.00
RIM	= 183.30	INV OUT	= 179.22	INV OUT	= 176.00
INV(OUT)	= 179.30				
		DMH #3		OCS #3	
CB #4		RIM	= 183.35	RIM	= 180.00
RIM	= 183.25	INV IN	= 178.54	INV IN (6" PERF)	= 175.83
INV(OUT)	= 178.62	INV OUT	= 178.54	INV OUT	= 175.83
CB #5 (FLAT TOP)		DMH #4		FES #1	
RIM	= 179.80	RIM	= 180.00	INV (OUT)	= 173.98
INV(OUT)	= 177.33	INV IN	= 177.45		
		INV OUT	= 177.45	FES #2	
				INV (OUT)	= 173.56
		WQU-1 (CONTECH CDS 1515-3)			
		RIM	= 179.75	FES #3	
		INV(IN)	= 176.62	INV (OUT)	= 174.00
		INV(OUT)	= 176.45		
				FES #4	
		WQU-2 (CONTECH CDS 1515-3)		INV (OUT)	= 180.50
		RIM	= 179.70		
		INV(IN)	= 176.51		
		INV(OUT)	= 176.51		

SITE GRADING AND DRAINAGE LEGEND

TDOCK XX.XX / BDOCK XX.XX	PROPOSED TOP / BOTTOM OF DELIVERY DOCK
TC XX.XX / BC XX.XX	PROPOSED TOP / BOTTOM OF CURB ELEVATION
TW XX.XX / BW XX.XX	PROPOSED TOP / BOTTOM OF RETAINING WALL ELEVATION
M.E.	MATCH EXISTING ELEVATION
+182.50	PROPOSED SPOT ELEVATION
237	PROPOSED ELEVATION CONTOUR
	PROPOSED DRAINAGE MANHOLE (DMH) OR WATER QUALITY UNIT (WQU)
	PROPOSED CATCH BASIN (CB)
HP=186.30	DRAINAGE RIDGELINE/HIGHPOINT
	DRAINAGE PIPE
FES	FLARED END SECTION
	FLOW DIRECTION
TP-1 176.4	TEST PIT LOCATION
	DRAINAGE INSPECTION PORT
HDPE	HIGH-DENSITY POLYETHYLENE DRAINAGE PIPE
DIP	DUCTILE IRON DRAINAGE PIPE

GRAPHIC SCALE 50 0 25 50 100 200 — 1 inch = 50 ft.

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CLIENT:
THE SHEARWATER COMPANIES

CONSULTANT:

SEAL
COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37166
REGISTERED PROFESSIONAL ENGINEER
03-24-2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

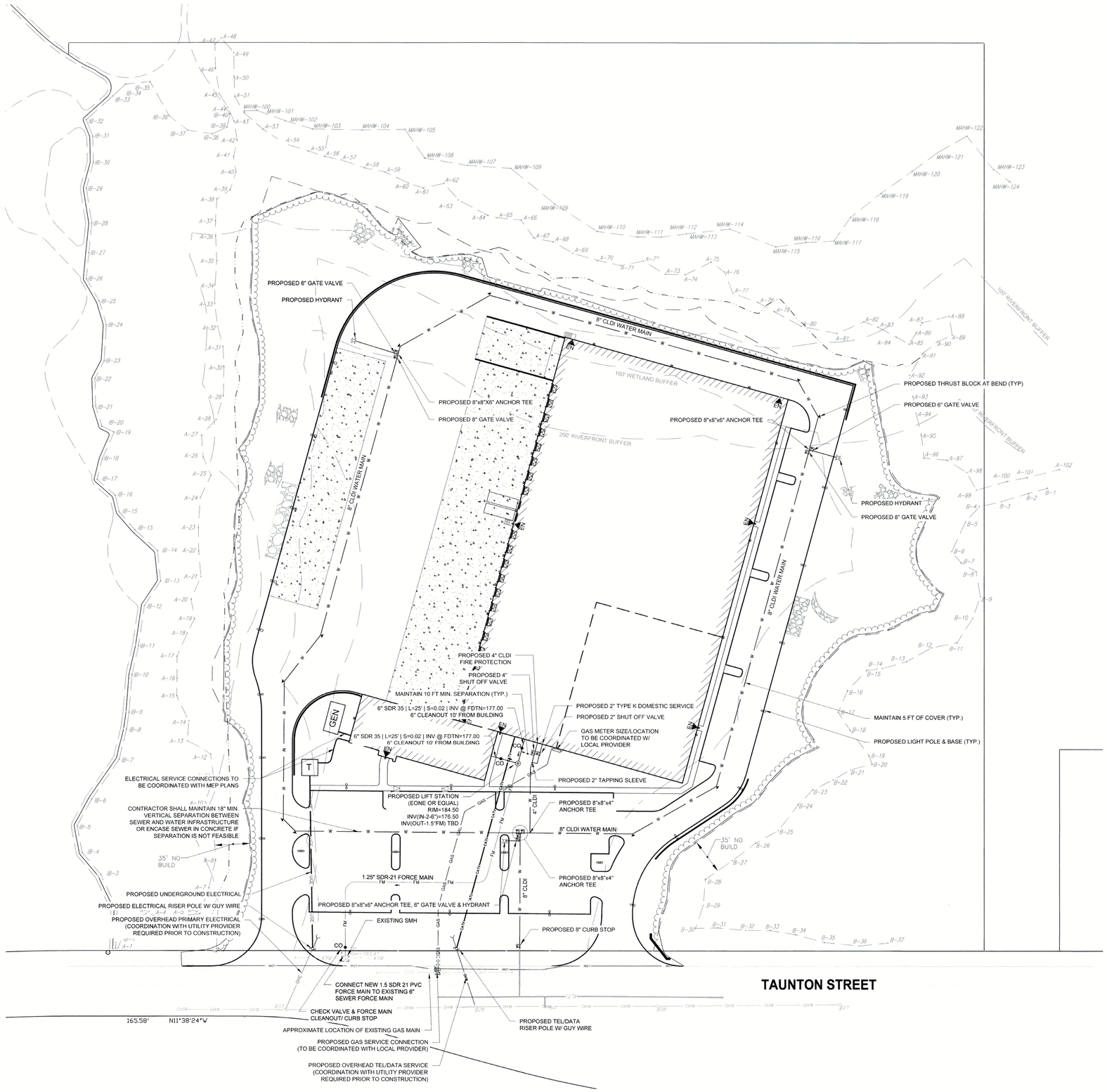
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PROJECT NUMBER:
21018

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SHEET TITLE:
GRADING AND DRAINAGE PLAN

SHEET NUMBER:
C300



SITE UTILITY NOTES

1. ALL SEWER PIPES SHALL BE 6-INCH DIAMETER SDR 35 POLYVINYL CHLORIDE UNLESS OTHERWISE INDICATED.
2. FINAL GAS, ELECTRIC, AND TELECOMMUNICATIONS SERVICES SHALL BE COORDINATED WITH THEIR RESPECTIVE LOCAL PROVIDERS. CONTRACTOR SHALL ALERT THE DESIGN TEAM TO ANY CHANGE TO THE PERMIT PLANS PRIOR TO CONSTRUCTION.
3. UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL WORK IS TO CONFORM TO PLAINVILLE ENGINEERING DEPARTMENT AND MASSACHUSETTS PLUMBING CODE FIRST, AND IF WORK IS NOT COVERED IN THE SPECIFICATIONS, IT IS TO CONFORM TO THE MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATION FOR HIGHWAYS AND BRIDGES, CURRENT EDITION.
4. THE SITE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES AND DRAINAGE INFRASTRUCTURE PRIOR TO TAPPING INTO, CROSSING, OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES OR DRAINAGE, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
5. THE SITE CONTRACTOR SHALL KEEP ACCURATE AND NEAT TIES TO ALL SUBSURFACE UTILITIES. COPIES OF THESE TIES SHALL BE PROVIDED TO THE TOWN OF PLAINVILLE AND THE SITE ENGINEER AT THE COMPLETION OF SITE WORK.
6. REFER TO PLUMBING PLANS BY OTHERS FOR PLUMBING DETAILS WITHIN THE PROPOSED BUILDING.
7. THE PLAINVILLE ENGINEERING DEPARTMENT, DEPARTMENT OF PUBLIC WORKS, AND CONSERVATION SHALL BE NOTIFIED AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.
8. THE SITE CONTRACTOR SHALL OBTAIN, AT A MINIMUM, A WATER WORKS DEMOLITION PERMIT AND A WATER WORKS CONSTRUCTION PERMIT PRIOR TO DEMOLITION AND/OR INSTALLATION OF EXISTING AND PROPOSED WATER SERVICES SHOWN HEREON. CONTRACTOR TO VERIFY LOCATION AND SIZE OF EXISTING WATER MAIN IN FIELD PRIOR TO ORDERING VALVES AND FITTINGS AND INSTALLING WATER CONNECTIONS. CONTRACTOR TO NOTIFY PLAINVILLE WATER DEPARTMENT WHEN VERIFYING EXISTING WATER MAIN TYPES, SIZES, LOCATIONS AND FOR INSPECTION PRIOR TO BACKFILL.
9. THE PLAINVILLE WATER DEPARTMENT SHALL BE NOTIFIED A MINIMUM OF 72 HOURS PRIOR TO CONDUCTING FIRE PUMP AND HYDRANT FLOW TESTS.
10. ALL WATER SERVICE PIPE SHALL BE CEMENT-LINED, TAR-COATED CLASS 52 DUCTILE IRON, SUPPLIED BY U.S. PIPE AND FOUNDRY COMPANY, GRIFFIN PIPE COMPANY, OR EQUAL AS APPROVED BY THE PLAINVILLE WATER DEPARTMENT.
11. WATER PIPE FITTINGS SHALL BE CEMENT-LINED DUCTILE IRON WITH INTERLOCKING OR MECHANICAL JOINT RESTRAINTS.
12. WATER PIPE JOINTS SHALL HAVE INTERLOCKING OR MECHANICAL JOINT RESTRAINTS.
13. WATER PIPE COUPLINGS SHALL BE SMITH BLAIR STYLE 441, DRESS STYLE 153, 360 OR ROMAN STYLE 501 WITH PLAIN, GRADE 27 RUBBER GASKETS AND BLACK, STEEL TRACK-HEAD BOLTS WITH NUTS.
14. WATER GATE VALVES SHALL MEET AWWA C-509, 200 PSI MINIMUM WORKING PRESSURE, RESILIENT SEATED, AND OPEN CLOCKWISE.
15. THRUST BLOCKS SHALL BE 3,000 PSI MINIMUM, 1-1/2, 470 CEMENT CONCRETE MASONRY.
16. CONTRACTOR TO VERIFY EXISTING SIZE AND LOCATION OF MAINS LOCATED IN TAUNTON STREET PRIOR TO BEGINNING CONSTRUCTION.
17. THE REUSE OF ANY SUBSURFACE MATERIAL SHALL BE COORDINATED WITH THE LSP.

SITE UTILITY LEGEND

W	PROPOSED WATER SERVICE OR MAIN
FM FM	PROPOSED FORCE MAIN
SS SS	PROPOSED SEWER SERVICE OR MAIN
CATV	PROPOSED TELECOMMUNICATION DUCTBANK
OHW	PROPOSED OVERHEAD ELECTRIC
UGE	PROPOSED UNDERGOUND ELECTRIC
GAS	PROPOSED GAS SERVICE
	PROPOSED FIRE HYDRANT
WG	PROPOSED WATER GATE VALVE
	PROPOSED SEWER MANHOLE
	PROPOSED THRUST BLOCK
T	PROPOSED ELECTRICAL TRANSFORMER
GEN	PROPOSED ELECTRICAL GENERATOR
GG	PROPOSED GAS GATE VALVE
	PROPOSED UTILITY RISER POLE
	PROPOSED LIGHT POLE & BASE
CO	PROPOSED SEWER CLEANOUT

50 0 25 50 100 200
GRAPHIC SCALE 1 inch = 50 ft.

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03-24-2022

PROPOSED INDUSTRIAL BUILDING

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PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE: PERMIT SUBMISSION
ISSUE DATE: 3.24.2022
PROJECT NUMBER: 21018

DRAWN BY: AB
CHECKED BY: JA/DTB

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SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C400



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BSX-II ARRAY LED Specifications



Project Name:

Catalog Number:

Type:

The **BSX-II Array** continues the unique contemporary design inspired by the sleek styling of the BOW family. Separating the extruded aluminum street housing and the individual die-cast aluminum linear LED engines, optimizes the life of the LEDs and the Drivers(s) and maximizes the lumen output of the fixture. The adjustable knuckle allows for up to 50° degrees of vertical adjustment for putting the light exactly where you need it.

The BSX-II Array LED fixture is offered with lumen packages ranging from 5,000 - 35,000. Choose between 3000, 4000 or 5000 Kelvin temperature of the LEDs.

The **BSX-II Array** is an exceptional choice and the new standard for roadway lighting applications, bringing LED technology with long life and low maintenance.

Ordering Information

MODEL	OPTICS	LUMENS	KELVIN	VOLTAGE	MOUNTING	FINISH	OPTIONS	OPTIONS
BSX-II-2 BSX-II-3 BSX-II-4	T1 Type 1 T2 Type 2 T3 Type 3 T3L Type 3 Long T4 Type 4 T4A Type 4 Automotive T4L Type 4 Long TSLR Type 5 Long Round TSLS Type 5 Long Square TSSR Type 5 Short Round	5L 5,000L 10L 10,000L 15L 15,000L 20L 20,000L 30L 35,000L	3K 3000K 4K 4000K 5K 5000K	UNV 120-277V 8 347V 5 480V	PT Pearl Tex MA Mast Arm Fitter KM Knuckle Mount BOA Bolt-On Arm TM Trunnion Mount WM Wall Mount AWM Adjustable Wall Mount	GY Grey SL Silver Metallic BK Black GBK Smooth Black WH White SWH Smooth White BZ Bronze GP Graphite CC Custom Color	PCR-120 PCR-208 PCR-240 PCR-277 PCR-347 PCR-480 Photocell & Receptacle PER 5PINFER 7PINFER 3 or 5 Pin Photocell Receptacle w/Shorting cap Pertuding/Dimming DS Decorative Shroud UPMA-S Universal Square Pole Mount Adaptor UPMA-R Universal Round Pole Mount Adaptor	DIM 0-10 V Dimming Pertuding (120-277 Volts) WSC-8 Motion Sensor 8' Mounting Height WSC-20 Motion Sensor 9-20' Mounting Height WSC-40 Motion Sensor 21-40' Mounting Height *The WSC series requires a 120 (120-277 Volts) Volt Sensor for Proper Wiring ROT-R Rotated Optics Right Side ROT-L Rotated Optics Left Side VWC Visionaire Wireless Controls (Factory)

VISIONAIRE LIGHTING

110 EMERGI-LITE REMOTE FIXTURES

Lux-Ray™ LED Series

Low-profile, sleek look light fixture



- Optional high lumen output
- Optional photo-switch dusk-to-dawn control of normal lighting
- Optional remote test: infrared remote control
- 400-640 Lumens
- Color temperature: 4000K

Mounting
- Surface wall mount
- Universal J-box mounting

Approval
- UL listed
- NEMA 3R
- Damp and wet location listed (-40°F to 104°F, -40°C to 40°C)

Warranty
- Unit has a five-year limited warranty

Detailed warranty terms located on page 207 or online at: www.emergi-lite.com/usa/files/EL_Warranty.pdf

NEMA-3R

Description
- Die-cast aluminium housing
- UV resistant poly-carbonate lens

Lamp type
- LED light engine with redundant connections
- Optional forward-throw light distribution, for applications of outdoor egress
- Optional dual-mode: normal and emergency LED lighting with separate AC inputs

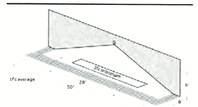
Photometric performance

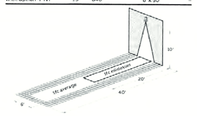
Table A - Spacing for minimum Illumination = 1FC (1 foot-candle)

Model type	Mounting height	Lumen	Color temperature	Width X length (ft) Single unit	Center-to-center
Standard	9'	400	4000K	4' x 28'	4' x 32'
With option -H	11'	550		4' x 36'	4' x 40'
With option -RT	13'	460		4' x 29'	–
With option -RTH	15'	640		4' x 27'	–

Table B - Spacing for NFPA101 - Average = 1FC (1 foot-candle)

Model type	Mounting height	Lumen	Color temperature	Width X length (ft) Single unit	Center-to-center
Standard	9'	400	4000K	6' x 50'	4' x 32'
With option -H	11'	550		6' x 60'	4' x 40'
With option -RT	13'	460		6' x 50'	3' x 70'
With option -RTH	19'	640		6' x 50'	–





Housing color

Black · Dark bronze · Off-white · Medium gray

REMOTES

50 0 25 50 100 200

GRAPHIC SCALE 1 inch = 50 ft.

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03.24.2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

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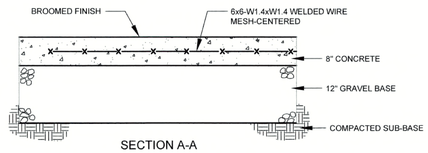
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SHEET TITLE:
SITE LIGHTING AND PHOTOMETRICS PLAN

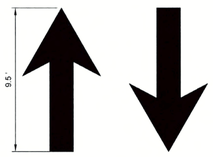
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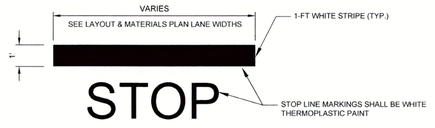
SECTION A-A

NOTE:
REFER TO PROJECT PLANS FOR PROPOSED DOCK DIMENSIONS

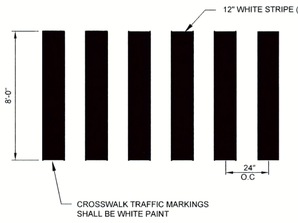
CONCRETE LOADING DOCK C3
NOT TO SCALE



THROUGH LANE ARROW



STOP BAR



CROSSWALK STRIPING

NOTES:

1. THE LONGITUDINAL SPACE BETWEEN LINES OR SYMBOL MESSAGES, INCLUDING ARROWS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTER FOR LOW SPEED ROADS AND DRIVEWAYS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTER UNDER ANY CONDITIONS
2. THE SPACING OF THE PAVEMENT MARKINGS WILL BE AS SHOWN ON THE PLAN AND AS PER THE MUTCD STANDARDS.
3. SYMBOLS AND WORDS SHALL MEET THE REQUIREMENTS OF THE FHWA "STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKINGS".

PAVEMENT MARKINGS C2
NOT TO SCALE

GRAVEL BEDDING (FOR UTILITIES) SHALL BE GRAVEL, CRUSHED QUARRY ROCK OR CRUSHED GRAVEL, FROM OFF-SITE SOURCES GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
1 IN.	100
3/4 IN.	90-100
3/8 IN.	20-55
NO. 4	0-10
NO. 8	0-5

STONE (FOR UTILITIES) SHALL BE A DURABLE, CRUSHED STONE OR GRAVEL FROM OFF-SITE SOURCES, GRADED WITHIN THE FOLLOWING LIMITS:

SIEVE SIZE	% PASSING BY WEIGHT
2-1/2 IN.	100
2 IN.	60-90
1-1/4 IN.	25-50
3/4 IN.	0

SELECT FILL SHALL BE A COARSE GRANULAR MATERIAL CONSISTING OF HARD, DURABLE, ANGULAR MATERIAL, GRADED WITHIN THE FOLLOWING LIMITS. MATERIAL PASSING THE NO. 40 SIEVE SHALL HAVE A PLASTICITY INDEX OF NOT MORE THAN 10 AND A LIQUID LIMIT NOT TO EXCEED 35%.

SIEVE SIZE	% PASSING BY WEIGHT
4 IN.	100
1 IN.	60-100
NO. 4	30-80
NO. 40	5-30
NO. 200	0-8

GRANULAR FILL SHALL CONSIST OF WELL GRADED NATURAL SANDS AND GRAVELS, FREE FROM PLASTIC FINES, ORGANIC MATTER AND DELETERIOUS MATERIAL AND SHALL HAVE THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
2 IN.	100
1 IN.	60-100
NO. 4	25-85
NO. 20	10-60
NO. 50	4-35
NO. 200	3-10

PROCESSED GRAVEL FILL SHALL CONSIST OF WELL GRADED NATURAL GRAVELS AND SANDS, FREE FROM PLASTIC FINES, ORGANIC MATTER AND DELETERIOUS MATERIAL AND SHALL HAVE THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
2 IN.	100
1 1/2 IN.	70-100
3/4 IN.	50-85
NO. 4	30-60
NO. 200	0-10

3/4 INCH MINUS CRUSHED STONE FILL SHALL HAVE THE FOLLOWING GRADATION:

SIEVE SIZE	% PASSING BY WEIGHT
1 IN.	100
3/4 IN.	90-100
1/2 IN.	10-50
3/8 IN.	0-20
NO. 4	0-5

COMMON FILL (IN **LANDSCAPED AREAS)** SHALL BE BANK RUN SAND, GRAVEL, OR MIXTURE THEREOF, GRADED WITHIN THE FOLLOWING LIMITS.

SIEVE SIZE	% PASSING BY WEIGHT
6 IN.	100
NO. 4	30-95
NO. 200	0-15

DENSE GRADED CRUSHED STONE SHALL CONSIST OF CRUSHER-RUN COARSE AGGREGATES OF CRUSHED STONE OR GRAVEL AND FINE AGGREGATES OF NATURAL SAND OR STONE SCREENINGS; UNIFORMLY PRE-MIXED WITH A PREDETERMINED QUANTITY OF WATER. COARSE AGGREGATE SHALL HAVE A PERCENTAGE OF WEAR OF NOT MORE THAN 45 BY THE LOS ANGELES TEST.

THE COMPOSITE MATERIAL SHALL BE FREE FROM CLAY, LOAM AND ALL OTHER PLASTIC MATERIALS, AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE DESIGNATION	PERCENTAGE BY MASS PASSING SQ. MESH SIEVES
2 inches	100
1 1/2 inches	70-100
3/4 inch	50-85
No. 4	30-55
No. 50	8-24
No. 200	3-10

SAMPLING AND TESTING SHALL BE IN ACCORDANCE WITH THE FOLLOWING STANDARD AASHTO METHODS:

- SIEVE ANALYSIS: AASHTO T27
- PASSING No. 200 SIEVE: AASHTO T11

ALL GRANULAR FILL AND PROCESSED GRAVEL FILL SHALL BE COMPACTED TO AT LEAST 95% OF THE MAXIMUM DRY DENSITY DETERMINED BY ASTM D1557.

BACKFILL MATERIAL GRADATION REQUIREMENTS C1
NOT TO SCALE

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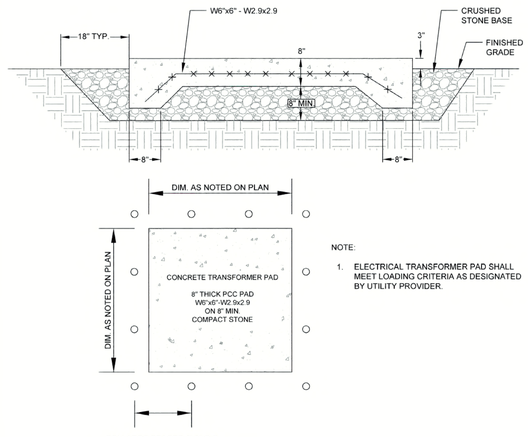
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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C600

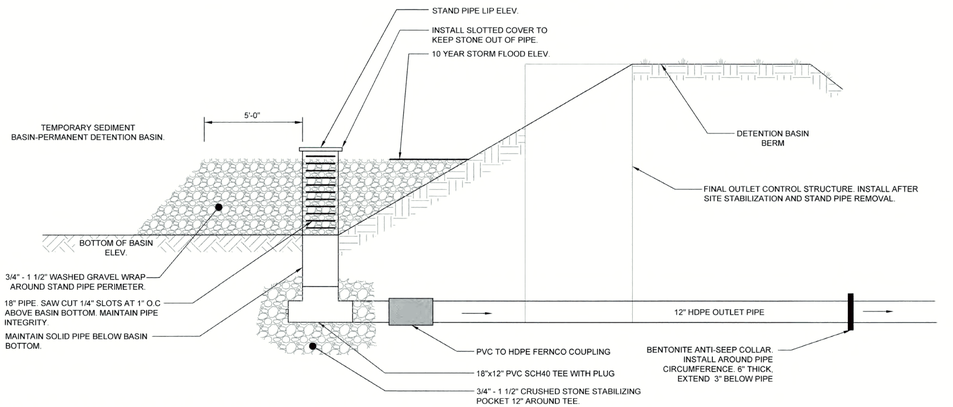


BOLLARDS SPACED 6'-0" O.C.

NOTE:

1. ELECTRICAL TRANSFORMER PAD SHALL MEET LOADING CRITERIA AS DESIGNATED BY UTILITY PROVIDER.

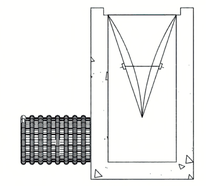
TYPICAL ELECTRICAL TRANSFORMER PAD B3
NOT TO SCALE



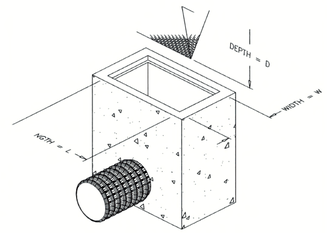
NOTES:

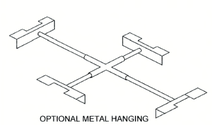
1. TURBIDITY MONITORING AT DOWNSTREAM END OF OUTLET FOR 2022 CGP COMPLIANCE SHALL BE OVERSEEN BY THE LSP IN CONFORMANCE WITH HASP/SMP
2. SEDIMENT BASIN BOTTOM SHALL BE LINED WITH 30 MIL POLYETHYLENE LINER AND TOPPED WITH 6" LOAM AND HYDROSEED WITH ANNUAL RYEGRASS.

TEMPORARY SEDIMENT BASIN OUTLET PIPE B2
NOT TO SCALE



INSTALLATION DETAIL





SILTSACK SPECIFICATIONS

NOTE: THE SILTSACK WILL BE MANUFACTURED FROM A WOVEN POLYPROPYLENE FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

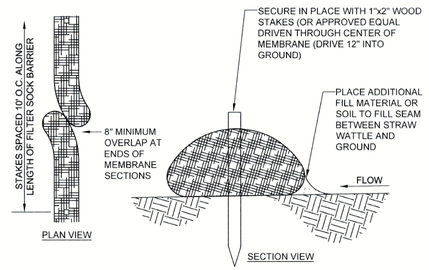
REGULAR FLOW SILTSACK

(FOR AREAS OF LOW TO MODERATE PRECIPITATION AND RUN-OFF)

PROPERTIES	TEST METHOD	UNITS
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20 %
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80 %
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ.FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

FOR APPROVAL SUBMIT TYPE OF SILTSACK DEPENDING ON THE APPLICATION. THESILTSACK CAN BE MADE FROM EITHER ONE OF THE ABOVE FABRICS WITH AN OIL-ABSORBANT PILLOW INSERT OR, MADE COMPLETELY FROM AN OIL-ABSORBANT SILTSACK , WITH A WOVEN PILLOW INSERT.

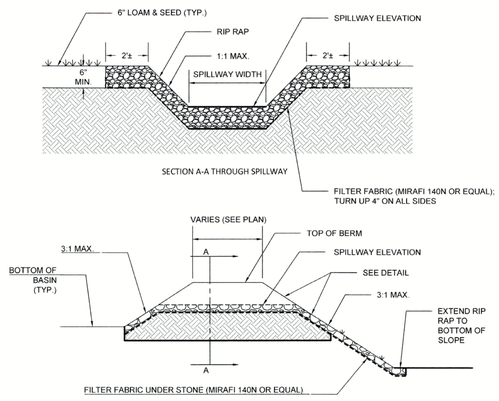
SILTSACK CATCH BASIN INSERT B1
NOT TO SCALE



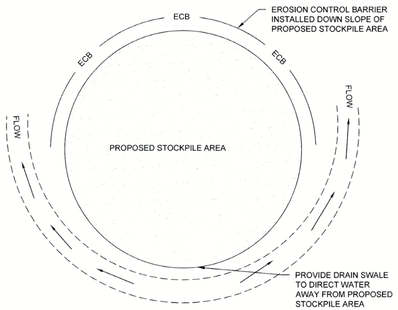
NOTES

1. WATTLES SHALL BE 12" MINIMUM DIAMETER.
2. WATTLES SHALL BE INSTALLED PRIOR TO START OF CONSTRUCTION ACTIVITIES AND LEFT IN PLACE TO BIODEGRADE AFTER FINAL STABILIZATION.

STRAW WATTLE EROSION CONTROL BARRIER A4
NOT TO SCALE



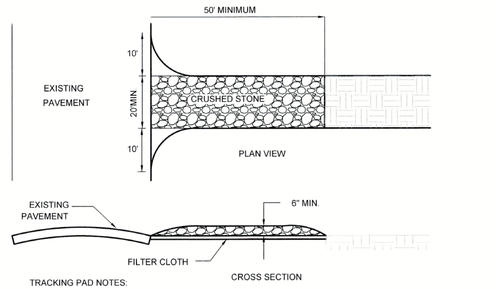
STONE CHECK DAM DETAIL A3
NOT TO SCALE



NOTES

1. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR LESS THAN 90 DAYS SHALL BE COVERED WITH HAY AND MULCH (AT 100LBS/1,000 SF), OR WITH AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL.
2. SOIL AND FILL STOCKPILES EXPECTED TO REMAIN IN PLACE FOR 90 DAYS OR MORE SHALL BE SEEDED WITH WINTER RYE (FOR FALL SEEDING AT 1LB/1,000 SF) OR OATS (FOR SUMMER SEEDING AT 2LB/1,000 SF) AND THEN COVERED WITH HAY MULCH (AT 100LB/1,000 SF) OR AN ANCHORED TARP WITHIN 7 DAYS OR PRIOR TO ANY RAINFALL

STOCKPILE PROTECTION A2
NOT TO SCALE



TRACKING PAD NOTES:

STONE SIZE - USE 2" CRUSHED STONE OR GREATER

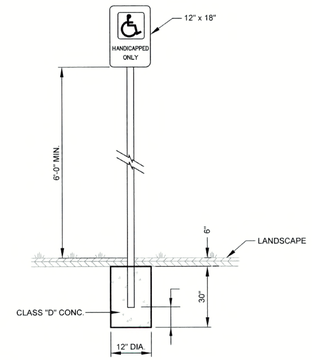
FILTER CLOTH - SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING OF STONE.

SURFACE WATER - ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHOULD BE PIPED ACROSS THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM SHOULD BE PERMITTED.

MAINTENANCE - THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY OR SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR OR CLEANING OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

CONSTRUCTION ANTI-TRACKING PAD A1
NOT TO SCALE

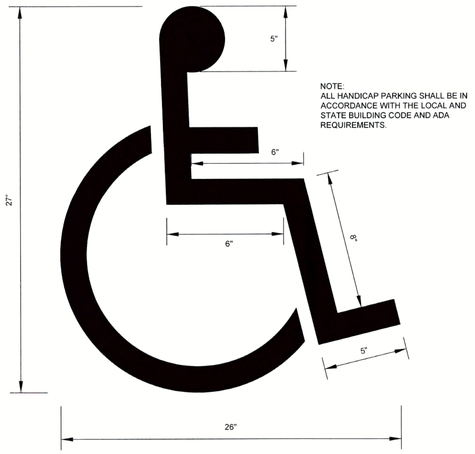
P:\Shearwater Companies (The)\21018 (43 Taunton St, Plainville T&M)\04_Design\Dwg\03_DD\21018_DS.dwg



ELEVATION

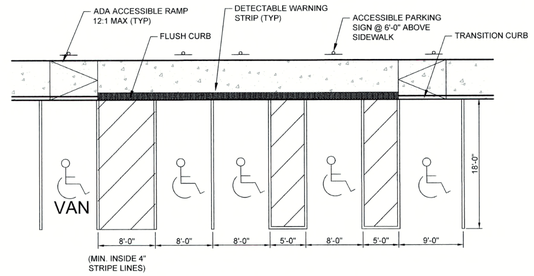
NOTE: 1. SIGN LAYOUT, COLORS, SYMBOL AND LETTERING SHALL MEET REQUIREMENTS OF ADA STANDARDS.
2. METAL POST TO BE GALVANIZED AND PAINTED 2 COATS OF EXTERIOR BLACK ENAMEL.
3. TO BE LOCATED AT APPROPRIATE SPACES AS INDICATED ON LAYOUT PLAN.

HANDICAP PARKING SIGN C4
NOT TO SCALE



NOTE:
ALL HANDICAP PARKING SHALL BE IN ACCORDANCE WITH THE LOCAL AND STATE BUILDING CODE AND ADA REQUIREMENTS.

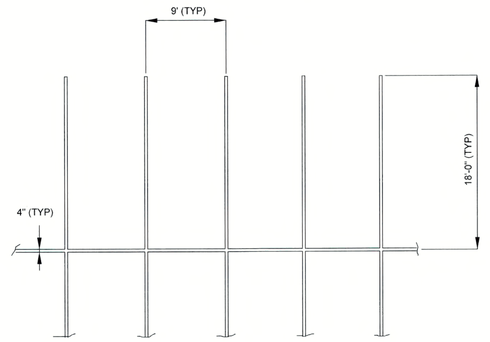
ADA PARKING SYMBOL C3
NOT TO SCALE



STRIPING SHALL BE 4" WIDE STRAIGHT LINES OF WHITE TRAFFIC PAINT

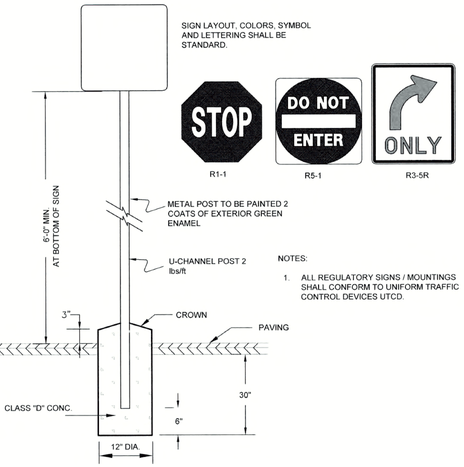
NOTE: ACCESSIBLE STRIPING SHALL MATCH LAYOUT ON PROJECT PLANS

ACCESSIBLE PARKING STRIPING (TYP) C2
NOT TO SCALE



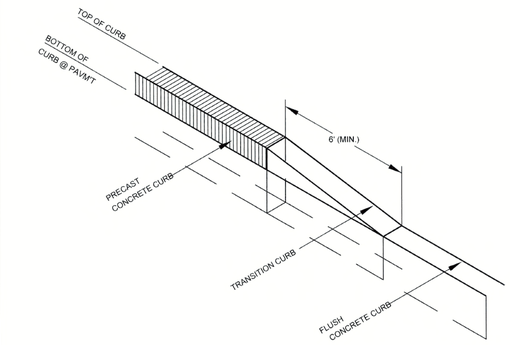
STRIPING SHALL BE 4" WIDE STRAIGHT LINES OF WHITE TRAFFIC PAINT. TO BE INSTALLED AS SHOWN ON LAYOUT AND MATERIALS PLAN

STANDARD PARKING STRIPING C1
NOT TO SCALE

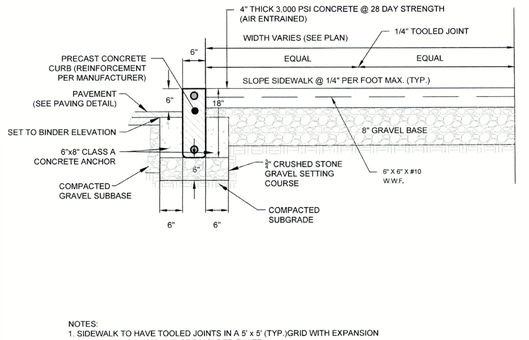


NOTES:
1. ALL REGULATORY SIGNS / MOUNTINGS SHALL CONFORM TO UNIFORM TRAFFIC CONTROL DEVICES UTCD.

TYPICAL SIGN DETAIL B4
NOT TO SCALE

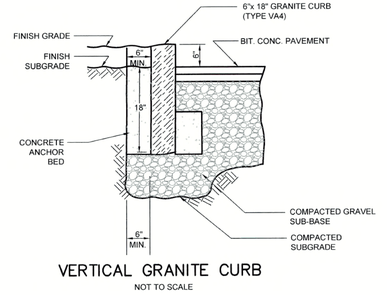


TRANSITION CONCRETE CURB B3
NOT TO SCALE



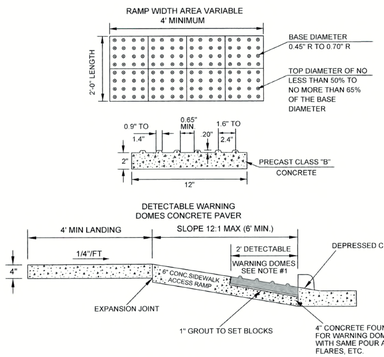
NOTES:
1. SIDEWALK TO HAVE TOOLED JOINTS IN A 5' x 5' (TYP.)GRID WITH EXPANSION JOINTS 15' ON CENTER AND PRE MOLDED FILLER.
2. SEE PLAN FOR ELEVATIONS AT CURB

PRECAST CONCRETE CURB & SIDEWALK DETAIL B2
NOT TO SCALE



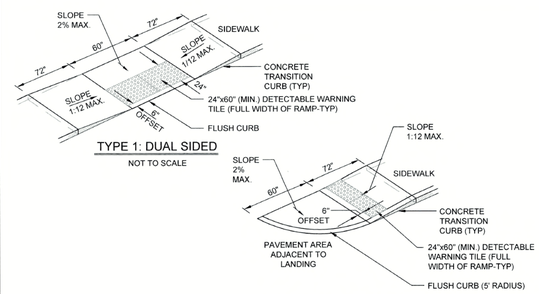
VERTICAL GRANITE CURB
NOT TO SCALE

VERTICAL GRANITE CURB B1
NOT TO SCALE



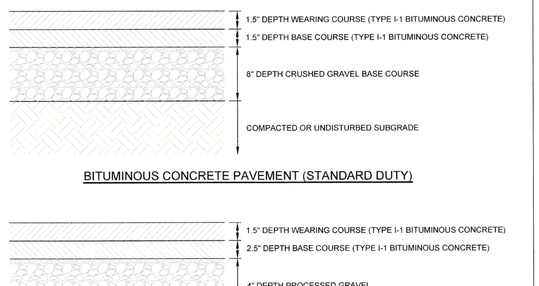
RAMP SECTION
WITH DETECTABLE WARNING PAVERS

DETECTABLE WARNING STRIP DETAIL A4
NOT TO SCALE

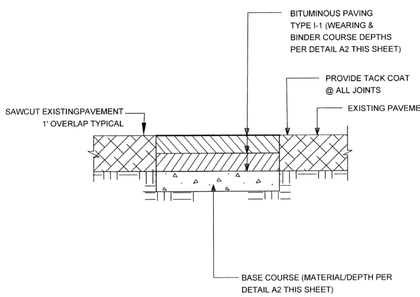


1. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 2% EXCEPT THE RAMP AREA PROPER WHICH IS EXEMPT.
2. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 36" SHALL BE MAINTAINED.
3. THE WHEELCHAIR RAMP SLOPE AND SIDE OF SLOPES (TRANSITIONS), MUST NOT EXCEED 8.33%. HOWEVER THESE SLOPES MAY BE FLATTER THAN 8.33% WHEN WARRANTED BY SURROUNDING CONDITIONS.
4. ALL REQUIREMENTS OF THE MASSACHUSETTS ARCHITECTURAL ACCESS BOARD (MAAB) AND THE AMERICANS WITH DISABILITIES ACT (ADA) SHALL GOVERN OVER THESE REGULATIONS.
5. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH ROADWAY.
6. DETECTABLE WARNING TILE SHALL BE BRICK RED, EMBEDMENT PANEL, SOUND ATTENUATING CURB RAMP TILE BY ADS SOLUTIONS, INC., PART NO. 2460IDPAV2 OR APPROVED EQUAL.
7. DETECTABLE WARNING TILE SHALL HAVE DOME SPACING OF 2.35 INCHES.
8. DETECTABLE WARNING TILE SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS. (PER MASSDOT E107.65)

HANDICAP RAMP DETAIL A3
NOT TO SCALE



PAVEMENT SECTIONS A2
NOT TO SCALE



PAVEMENT MATCH SAWCUT A1
NOT TO SCALE

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CIVIL ENGINEERING
CONSULTING
DEDHAM EXECUTIVE CENTER
980 WASHINGTON ST., SUITE 216
DEDHAM, MA 02026
www.HighpointEng.com

CLIENT:
THE SHEARWATER COMPANIES

CONSULTANT:

SEAL
COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. MARTINETT
CIVIL
No. 37795
REGISTERED PROFESSIONAL ENGINEER
05-24-2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION

ISSUE DATE:
3.24.2022

PROJECT NUMBER:
21018

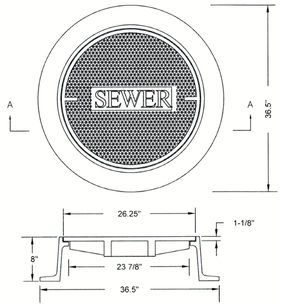
DRAWN BY: AB

CHECKED BY: JA/DTB

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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C601

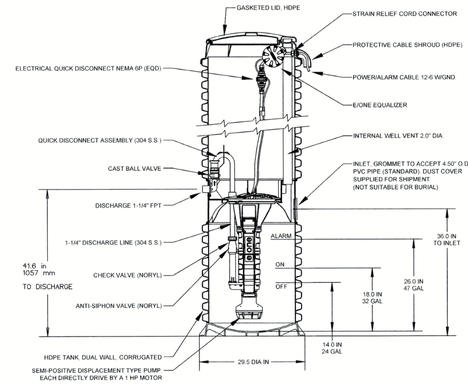


SECTION A-A

NOTE:

1. FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS CATALOG NOS. 2110A & 2114Z MARKED "SEWER", OR APPROVED EQUAL.
2. MANHOLE FRAME AND COVER TO BE LOCKABLE TYPE WITH GASKET. (WATER TIGHT)
3. CASTINGS SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
4. CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS.

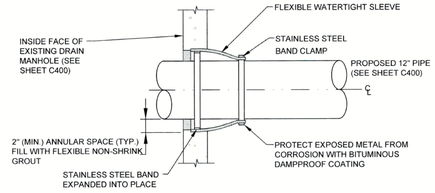
SEWER MANHOLE FRAME AND COVER — NOT TO SCALE — C3



NOTES:

1. TYPICAL DETAIL PROVIDED FOR REFERENCE. ACTUAL STRUCTURE SHALL CONFORM TO THE REQUIREMENTS AND GUIDELINES GIVEN BY THE SUPPLIER.
2. CASTINGS SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478
3. CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS

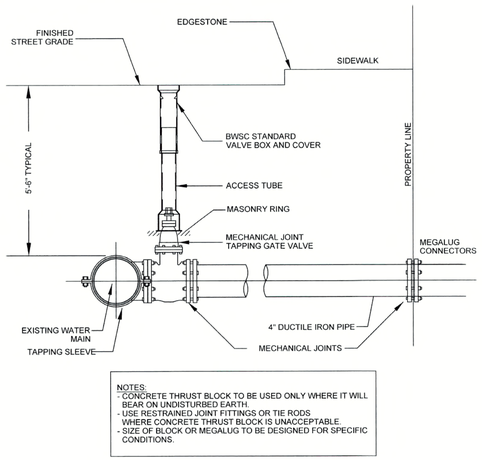
E-ONE SEWER PUMP SYSTEM W/ GRINDER PUMP (TYP) — NOT TO SCALE — C2



NOTE:

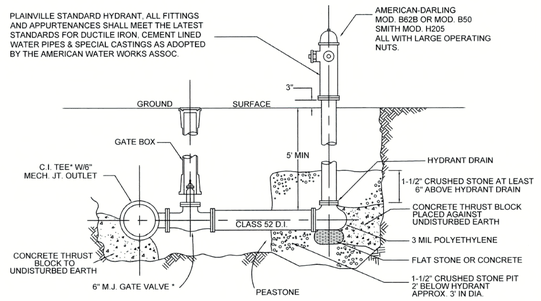
CORE DRILL NEW INVERT INTO EXISTING STRUCTURE

FLEXIBLE SLEEVE CONNECTION TO MANHOLE — NOT TO SCALE — C1



NOTES:
- CONCRETE THRUST BLOCK TO BE USED ONLY WHERE IT WILL BEAR ON UNDISTURBED EARTH.
- USE RESTRAINED JOINT FITTINGS OR TIE RODS WHERE CONCRETE THRUST BLOCK IS UNACCEPTABLE.
- SIZE OF BLOCK OR MEGALUG TO BE DESIGNED FOR SPECIFIC CONDITIONS.

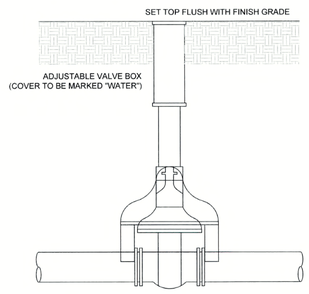
WATER PIPE CONNECTION WITH TAPPING SLEEVE & GATE VALVE — NOT TO SCALE — B4



* ALL VALVES AND FITTINGS ARE TO BE MECHANICAL JOINTS

* HYDRANTS AND GATE VALVES SHALL OPEN RIGHT

HYDRANT & GATE VALVE — NOT TO SCALE — B3



NOTES:

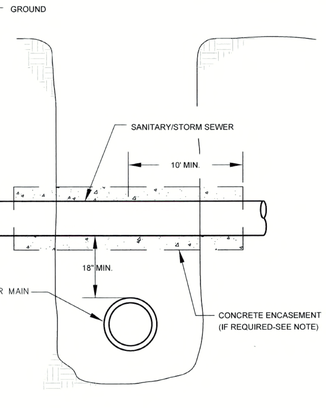
1. VALVE BOXES SHALL BE PROVIDED FOR EACH GATE VALVE AND TAPPING SLEEVE AND VALVE.
2. VALVE BOXES SHALL BE CAST IRON AND OF THE TELESCOPIC DESIGN WITH TWO PIECE CONSTRUCTION, TOP WITH A COVER AND A BOTTOM. THE TOP SECTION SHALL HAVE A TOP FLANGE TO INCREASE THE STABILITY OF THE BOX TO REMAIN AT PRESENT HEIGHT. THE LOWER SECTION OF THE BOX SHALL HAVE A BELL SHAPED BOTTOM DESIGNED TO ENCLOSE THE OPERATING NUT AND STUFFING BOX OF THE VALVE WITHOUT SETTLING.
3. THE GATE BOX SHALL COME COMPLETE WITH COVER ON WHICH THE WORD "WATER" SHALL BE CAST. THE COVER OF THE GATE BOX SHALL BE CLOSE FITTING AND SUBSTANTIALLY TIGHT AND FLUSH WITH THE TOP OF THE BOX RIM.
4. GATE BOXES SHALL BE INSTALLED FOR EACH BURIED VALVE.
5. VALVE BOXES SHALL BE CP TEST SERVICES, INC, OR EQUAL.
6. CAST IRON BOXES SHALL BE GENERAL FOUNDRY BUFFALO BOXES OR EQUAL. VALVE SHALL OPEN IN DIRECTION APPROVED BY TOWN OF PLAINVILLE.

WATER GATE VALVE BOX — NOT TO SCALE — B2

TABLE OF MINIMUM BEARING AREA IN SQ. IN. AGAINST UNDISTURBED SOIL FOR 8 IN. DIA. PIPE			
SOIL BEARING CAPACITY(PSF)	90 DEGREE BEND	TEE	45 DEGREE BEND
1000	945	674	516
1500	630	450	344
2000	473	337	258
3000	315	225	172

NOTE: FOR FITTINGS W/LESS THAN 45 DEGREES DEFLECTION USE BEARING AREA FOR 45 DEGREE BEND BASED ON INTERNAL PRESSURE OF 80 PSI

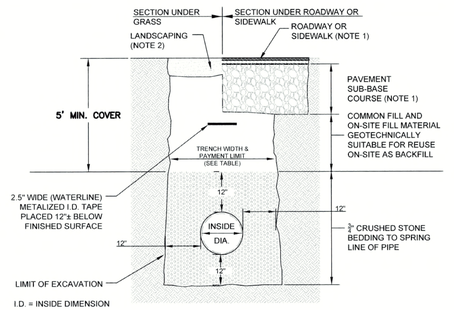
THRUST BLOCKS — NOT TO SCALE — B1



WATER OVER SEWER

WATER UNDER SEWER

TYPICAL WATER-SEWER CROSSING TRENCH SECTION — NOT TO SCALE — A3



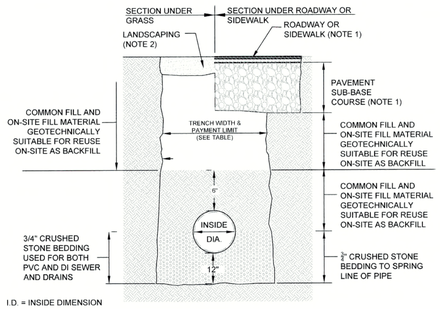
NOTE:

1. TRENCHING, BACKFILLING, COMPACTION, AND GRANULAR FILL MATERIALS SHALL CONFORM TO PLAINVILLE DPW STANDARD SPECIFICATIONS FOR EXCAVATION WITHIN PUBLIC RIGHT OF WAY BACKFILL TRENCH WITH EXCAVATEABLE CONTROLLED DENSITY FILL

TRENCH PAY LIMIT TABLE FOR PIPES

PIPE SIZE (DIA.)	MAX TRENCH WIDTH
LESS THAN 2"	2'-0"
2" TO 6"	3'-0"
8" TO 22"	4'-0"
24" & GREATER	I.D. + 2'-0"

WATER TRENCH — NOT TO SCALE — A2



NOTES:

1. REFER TO PAVING AND SURFACING, AND CURBS, WALKS AND DRIVEWAYS REQUIREMENTS.
2. REFER TO LANDSCAPING REQUIREMENTS
3. REFER TO "TRENCH PAY LIMIT TABLE FOR PIPES" FOR PAYMENT OF ALL ITEMS IN WHICH PAY TRENCH WIDTH IS A VARIABLE FOR CALCULATIONS OF QUANTITIES EXCEPT FOR TRENCH PAVEMENT
4. REFER TO TRENCH PAVEMENT DETAIL FOR PAVEMENT PAYMENT WIDTHS

TRENCH PAY LIMIT TABLE FOR PIPES

PIPE SIZE (DIA.)	MAX TRENCH WIDTH
LESS THAN 2"	2'-0"
2" TO 6"	3'-0"
8" TO 22"	4'-0"
24" & GREATER	I.D. + 2'-0"

SEWER AND DRAINAGE TRENCH — NOT TO SCALE — A1

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CLIENT:

THE SHEARWATER COMPANIES

CONSULTANT:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
CIVIL
No. 37744
REGISTERED PROFESSIONAL ENGINEER
03-24-2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE: PERMIT SUBMISSION

ISSUE DATE: 3.24.2022

PROJECT NUMBER: 21018

DRAWN BY: AB

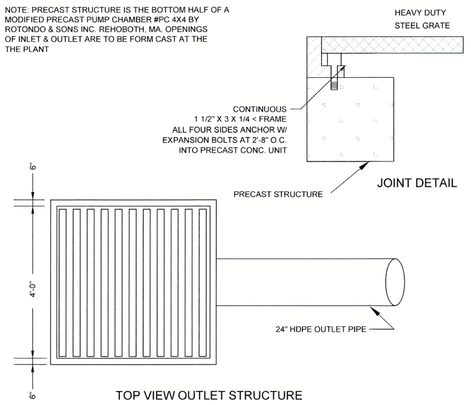
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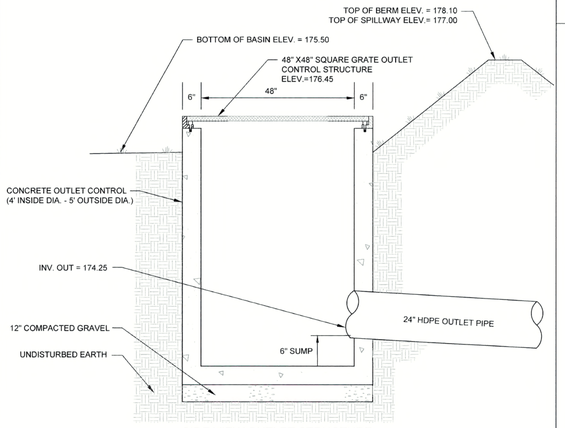
SHEET TITLE: DETAIL SHEET

SHEET NUMBER: C602

NOTE: PRECAST STRUCTURE IS THE BOTTOM HALF OF A MODIFIED PRECAST PUMP CHAMBER #PC 4X4 BY ROTONDO & SONS INC. REHOBOTH, MA. OPENINGS OF INLET & OUTLET ARE TO BE FORM CAST AT THE THE PLANT



TOP VIEW OUTLET STRUCTURE



SIDE VIEW OUTLET STRUCTURE

NOTES:

1. FACE OF PIPE FLUSH, OR OTHERWISE NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.

OUTLET CONTROL STRUCTURE (OCS-1)
NOT TO SCALE **B2**

NOTES:
1. FOREBAYS ARE SIZED TO CONTAIN 0.1 INCH OF RUNOFF FROM IMPERVIOUS AREA OF CONTRIBUTING WATERSHED.

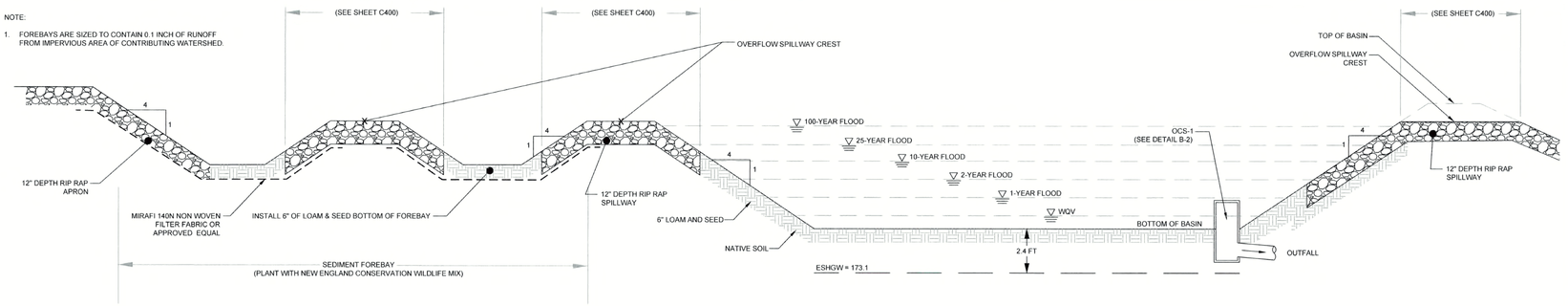


TABLE OF ELEVATIONS FOR PROPOSED INFILTRATION BASIN

BASIN NAME	BASIN DESIGNATION	BOTTOM OF SAND ELEVATION	BOTTOM OF BASIN ELEVATION	TOP OF BASIN ELEVATION	OVERFLOW SPILLWAY CREST ELEVATION	1-YR FLOOD ELEVATION	2-YR FLOOD ELEVATION	10-YR FLOOD ELEVATION	25-YR FLOOD ELEVATION	100-YR FLOOD ELEVATION	WQV ELEVATION
FOREBAY 1	FB-1	N/A	176.00	178.00	177.25	177.54	177.58	177.69	177.76	177.89	N/A
FOREBAY 1A	FB-1A	N/A	176.00	177.75	177.25	177.47	177.50	177.59	177.64	177.74	N/A
INFILTRATION BASIN	B-1	N/A	175.50	178.10	177.00	176.56	176.63	176.79	176.85	177.05	175.73

FOREBAY/INFILTRATION BASIN CROSS SECTION TYP
NOT TO SCALE **C1**

NOTES:
1. FOREBAY IS SIZED TO CONTAIN 0.1 INCH OF RUNOFF FROM IMPERVIOUS AREA OF CONTRIBUTING WATERSHED.

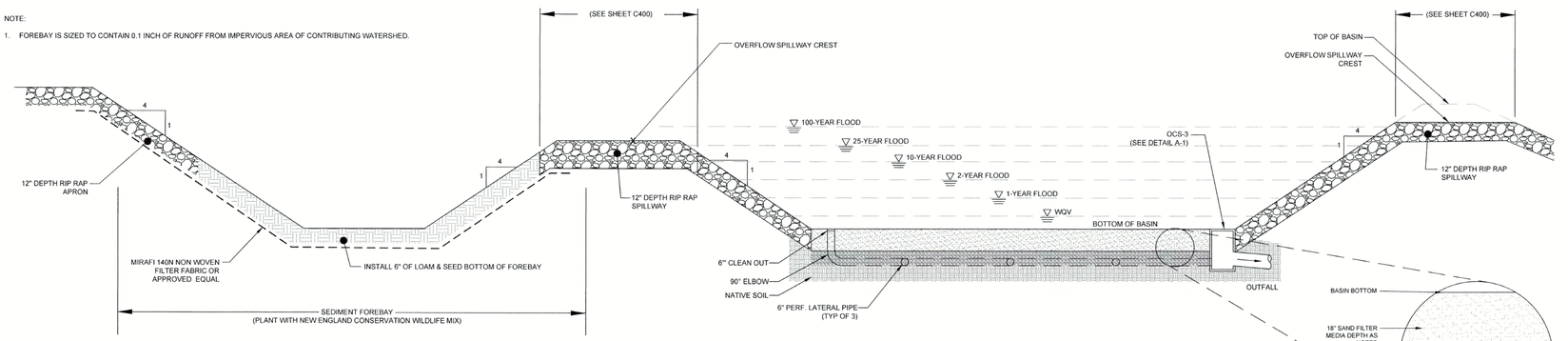
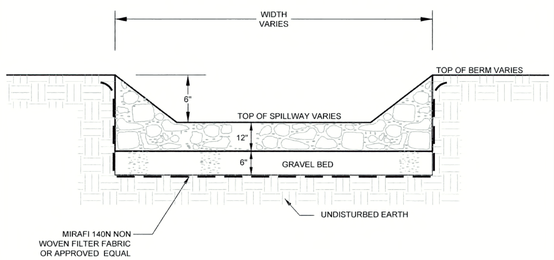


TABLE OF ELEVATIONS FOR PROPOSED SAND FILTER

BASIN NAME	BASIN DESIGNATION	BOTTOM OF SAND ELEVATION	BOTTOM OF GRAVEL ELEVATION	BOTTOM OF BASIN ELEVATION	TOP OF BASIN ELEVATION	OVERFLOW SPILLWAY CREST ELEVATION	1-YR FLOOD ELEVATION	2-YR FLOOD ELEVATION	10-YR FLOOD ELEVATION	25-YR FLOOD ELEVATION	100-YR FLOOD ELEVATION	WQV ELEVATION
FOREBAY 2	FB-2	N/A	N/A	179.00	181.00	180.25	180.36	180.37	180.42	180.45	180.53	N/A
SAND FILTER	B-2	176.50	175.83	180.00	181.00	180.25	177.45	177.89	179.26	180.16	180.51	176.18

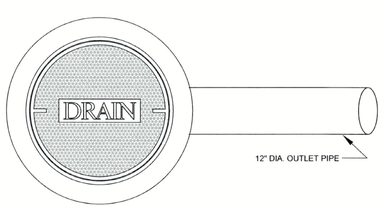
FOREBAY/SAND FILTER CROSS SECTION TYP
NOT TO SCALE **B1**

NOTES:
1. FOR TOP OF SPILLWAY AND TOP OF BERM ELEVATIONS AND DIMENSIONS OF SPILLWAY REFER TO GRADING AND DRAINAGE PLAN (SHEET C400)



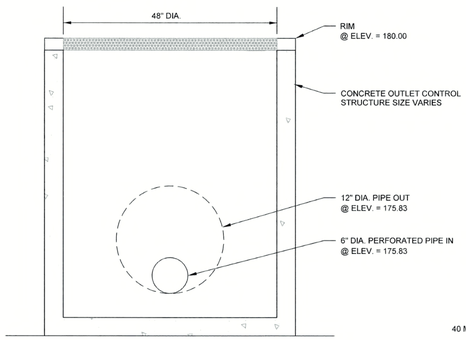
APRON TO BE COMPOSED OF A LAYER OF STONES 12" IN THICKNESS OR MORE. PLACED UPON A BED OF SAND AND GRAVEL 6" IN THICKNESS. THE STONES SHALL BE SIZED SO THAT NOT LESS THAN 60% SHALL HAVE ONE DIMENSION 12" OR MORE. THE STONES, AFTER BEING LAID, SHALL BE CAREFULLY PLACED BY HAND TO MAKE A REASONABLY SMOOTH AND SHAPED SURFACE. RIP RAP IS TO BE USED WHERE INDICATED ON THE PLAN (SEE SHEET C400).

RIP-RAP SPILLWAY
NOT TO SCALE **A2**

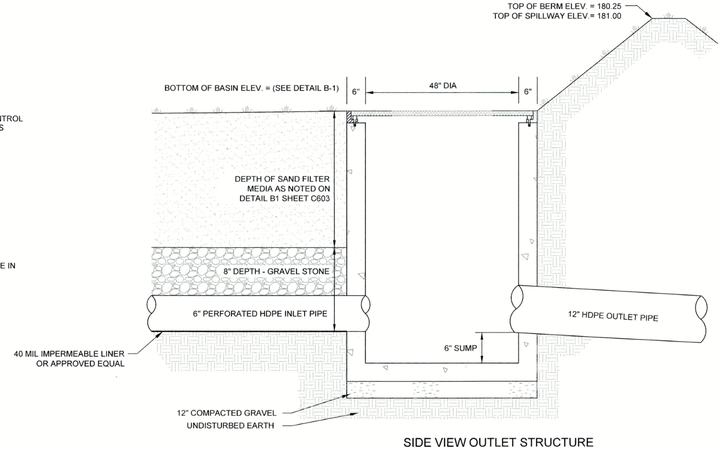


TOP VIEW OUTLET STRUCTURE

NOTES:
1. FACE OF PIPE FLUSH, OR OTHERWISE NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
2. PIPE OPENING COVERED WITH 23 GAUGE GALVANIZED WIRE MESH.



FRONT VIEW OUTLET STRUCTURE
FROM INSIDE BASIN



SIDE VIEW OUTLET STRUCTURE

OUTLET CONTROL STRUCTURE (OCS-3)
NOT TO SCALE **A1**

HIGHPOINT ENGINEERING, INC.
LAND PLANNING
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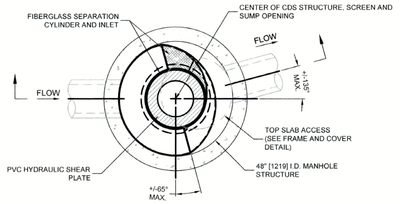
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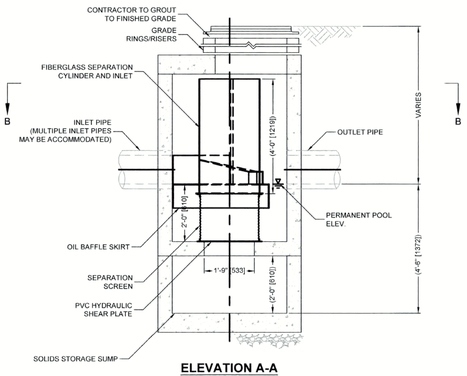
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SHEET TITLE:
DETAIL SHEET

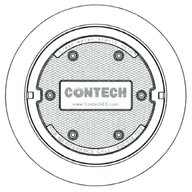
SHEET NUMBER:
C603



PLAN VIEW B-B
N.T.S.



ELEVATION A-A
N.T.S.



FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

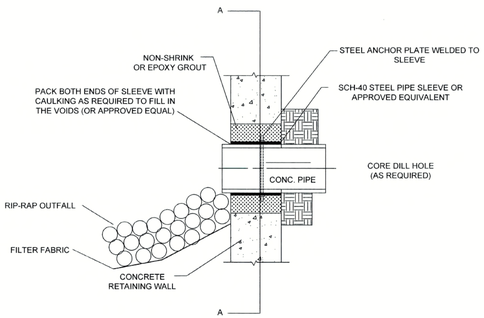
STANDARD DESIGN NOTES
RATED TREATMENT CAPACITY IS 0.7 CFS [19.8 L/s]. OR PER LOCAL REGULATIONS. MAXIMUM HYDRAULIC INTERNAL BYPASS CAPACITY IS 10.0 CFS [283 L/s]. IF THE SITE CONDITIONS EXCEED 10.0 [283 L/s] CFS, AN UPSTREAM BYPASS STRUCTURE IS REQUIRED.
THE STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.
CONFIGURATION DESCRIPTION
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES
SEPARATE OIL BAFFLE (SINGLE INLET PIPE REQUIRED FOR THIS CONFIGURATION)
SEDIMENT WEIR FOR NJDEP / NJCAT CONFORMING UNITS

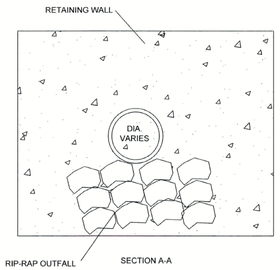
GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
3. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
5. STRUCTURE SHALL MEET AASHTO HS25 AND CASTINGS SHALL MEET HS25 (AASHTO M 306) LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
6. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
C. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

CONTECH
ENGINEERED SOLUTIONS LLC
www.ContechES.com
9025 Centre Pointe Dr., Suite 400, West Chester, OH 45069
800-338-1122 513-645-7000 513-645-7993 FAX

CONTECH INLINE CDS
NOT TO SCALE **B3**





TYPICAL PIPE CONNECTION DETAIL
NOT TO SCALE **A4**

NOTES:

1. APRON LENGTH: APRON LENGTH (LA) SHALL BE DETERMINED FROM TABLE 1.
2. APRON WIDTH: THE APRON WIDTH IS BASED ON THE DIAMETER OF THE DISCHARGE PIPE, (D). THE APRON WIDTH WILL BE 3D AT THE UPSTREAM END (WU), AND THE DOWNSTREAM WIDTH (WD) WILL BE EQUAL TO (D + LA). THE APRON SHALL EXTEND ACROSS THE CHANNEL BOTTOM AND UP SIDE SLOPES FOR A MINIMUM HEIGHT EQUAL TO THE DIAMETER OF THE PIPE, (D).
3. ALIGNMENT: THE APRON SHALL BE LOCATED SO THAT THERE ARE NO BENDS IN THE HORIZONTAL ALIGN-MENT. THE APRON SHOULD BE LEVEL OVER ITS LENGTH, AND THE ELEVATION OF THE DOWNSTREAM END OF THE APRON MUST BE THE SAME AS THE ELEVATION OF THE RECEIVING CHANNEL OR ADJACENT GROUND.
4. THICKNESS: THE REQUIRED APRON THICKNESS IS SHOWN IN TABLE 1.
5. GABIONS: WHEN A GABION MATTRESS IS USED IT SHALL BE MADE OF DOUBLE TWISTED GALVANIZED STEEL WIRE. GABIONS SHALL BE FABRICATED IN SUCH A MANNER THAT THE SIDES, ENDS, AND LID CAN BE ASSEMBLED AT THE CONSTRUCTION SITE INTO MATS A MINIMUM OF 12 INCHES THICK.
6. MATERIALS: OUTLET PROTECTION MAY BE DONE USING ROCK RIPRAP OR GABION MATTRESSES TO CONSTRUCT THE APRON. THE ROCK SHALL CONSIST OF FIELD STONE OR ROUGH UNHEWN QUARRY STONE. THE STONE SHALL BE HARD AND ANGULAR AND OF A QUALITY THAT WILL NOT DISINTEGRATE ON EXPOSURE TO WATER OR WEATHERING. BROKEN CONCRETE MAY BE USED PROVIDED IT DOES NOT HAVE ANY EXPOSED STEEL OR REINFORCING BARS, AND THAT IT IS BROKEN INTO BLOCKY PIECES SUCH THAT THE LARGEST DIMENSION OF EACH PIECE IS NO MORE THAN 3 TIMES THE SMALLEST DIMENSION. THE REQUIRED ROCK SIZE IS SHOWN IN TABLES 1 AND 2. IN ALL CASES A GEOTEXTILE (FILTER FABRIC) SHALL BE PLACED BETWEEN THE APRON AND THE UNDERLYING SOIL TO PREVENT SOIL MOVEMENT INTO AND THROUGH THE RIPRAP.

PROFILE

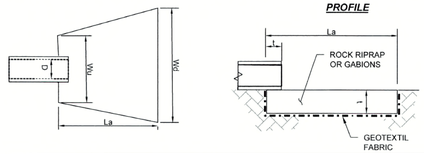


FIGURE 1 - TYPICAL DETAIL FOR ROCK OUTLET PROTECTION

Culvert Size D, (inches)	Rock Size d_{50} (inches)	Apron Length La, (feet)	Upstream Width Wu, (feet)	Downstream Width Wd, (feet)	Thickness t, (inches)	Quantity (tons)
15	9	16	4.5	18	24	20
18	9	16	4.5	18	24	20
24	9	20	6	22	24	60

TABLE 1 - ROCK OUTLET PROTECTION APRON DIMENSIONS

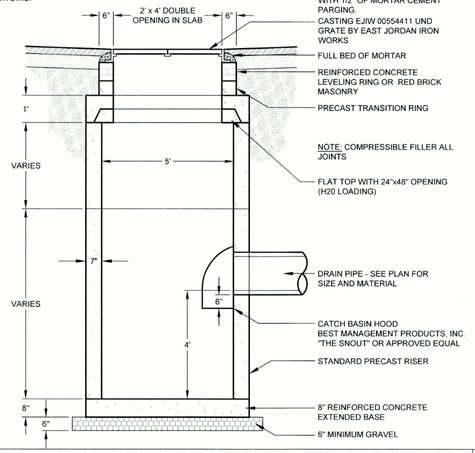
Smallest Dimension in Inches					% of rocks small than size shown
Gadion Rock	6"d50	9"d50	12"d50	18"d50	
8	12	15	21	30	100
6	9	12	18	24	50-70
4	6	9	12	18	35-50
3	2	3	4	6	2-10

TABLE 2 - REQUIRED ROCK GRADATION

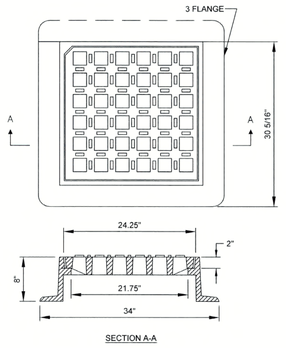
FLARED END SECTION WITH RIP RAP
NOT TO SCALE **A3**

NOTE: SEE LAYOUT AND ZONING FOR CURB TYPE. REFER TO ALTERNATE CB COVER DESIGN FOR CURB INLET CONDITOINS.

NOTE: ALL BLOCK TO BE LAID IN A FULL BED OF MORTAR. OUTSIDE OF CATCH BASIN TO BE COATED WITH 1/2" OF MORTAR CEMENT PARGING.



PRECAST CONCRETE DOUBLE GRATE CATCH BASIN
NOT TO SCALE **C2**

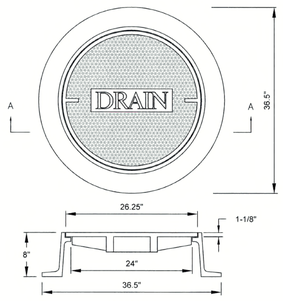


SECTION A-A

NOTE:

1. FRAME AND GRATE SHALL BE EAST JORDAN IRON WORKS CATALOG NOS. 5520M5 & 5524Z FOR THE 4 FLANGE AND CATALOG NOS. 5520M5 & 5523Z FOR THE 3 FLANGE, OR APPROVED EQUAL.
2. CASTINGS SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
3. CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS.

CATCH BASIN FRAME AND COVER
NOT TO SCALE **B4**

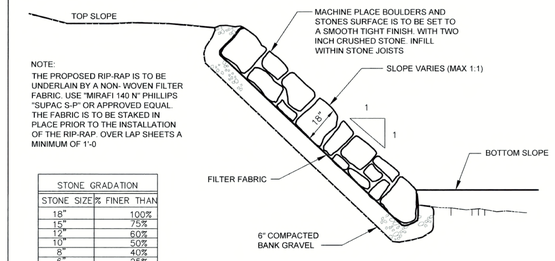


SECTION A-A

NOTE:

1. FRAME AND COVER SHALL BE EAST JORDAN IRON WORKS CATALOG NOS. 2110A & 2114Z MARKED "DRAIN", OR APPROVED EQUAL.
2. MANHOLE FRAME AND COVER TO BE LOCKABLE TYPE WITH GASKET. (WATER TIGHT)
3. CASTINGS SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
4. CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS.

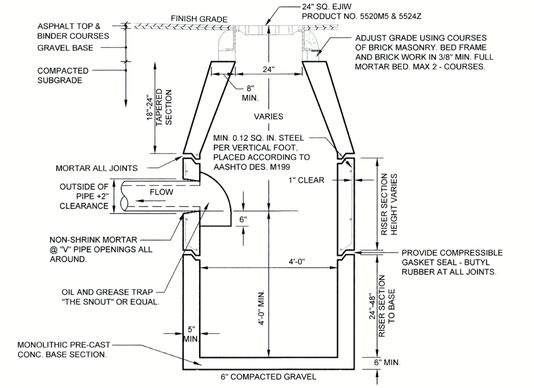
DRAIN MANHOLE FRAME AND COVER
NOT TO SCALE **B2**



NOTE:
THE PROPOSED RIP-RAP IS TO BE UNDERLAIN BY A NON- WOVEN FILTER FABRIC. USE "MIRAFI 140 N" PHILLIPS "SUPAC S-P" OR APPROVED EQUAL. THE FABRIC IS TO BE STAKED IN PLACE PRIOR TO THE INSTALLATION OF THE RIP-RAP. OVER LAP SHEETS A MINIMUM OF 1'-0

STONE GRADATION	
STONE SIZE	% FINER THAN
18"	100%
15"	75%
12"	50%
10"	50%
8"	40%
6"	25%
4"	10%

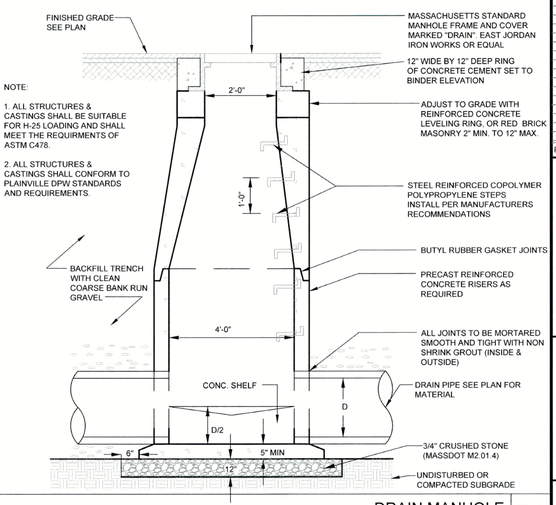
RIP RAP SLOPE
NOT TO SCALE **C1**



NOTES:

1. ALL STRUCTURES SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
2. PIPE OPENING COVERED WITH 23 GAUGE GALVANIZED WIRE MESH.
3. BACKFILL SHALL CONSIST OF CLEAN SOIL MATERIALS UNIFORMLY PLACED IN 6-INCH LAYERS AROUND THE STRUCTURE AND THOROUGHLY COMPACTED WITH HAND TAMPERS OR MECHANICAL EQUIPMENT.
4. ALL STRUCTURES & CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS.

TYPICAL PRECAST CATCH BASIN
NOT TO SCALE **B3**



NOTE:

1. ALL STRUCTURES & CASTINGS SHALL BE SUITABLE FOR H-25 LOADING AND SHALL MEET THE REQUIREMENTS OF ASTM C478.
2. ALL STRUCTURES & CASTINGS SHALL CONFORM TO PLAINVILLE DPW STANDARDS AND REQUIREMENTS.

DRAIN MANHOLE
NOT TO SCALE **B1**

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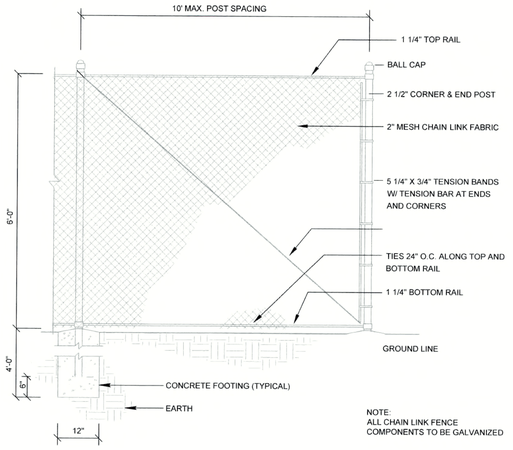
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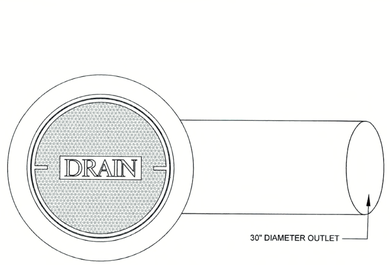
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SHEET TITLE:
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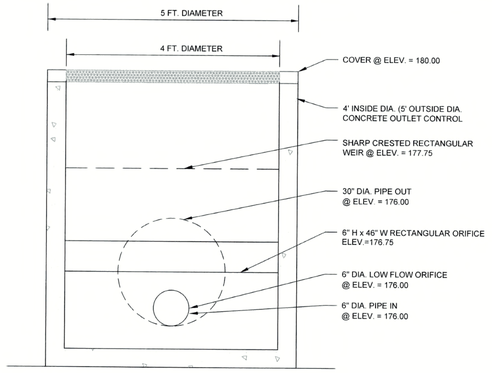
SHEET NUMBER:
C604



CHAIN LINK FENCE
NOT TO SCALE **C2**



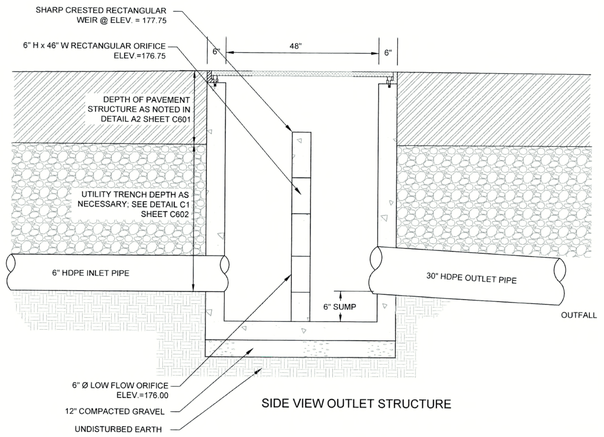
TOP VIEW OUTLET STRUCTURE



FRONT VIEW OUTLET STRUCTURE
FROM INSIDE BASIN

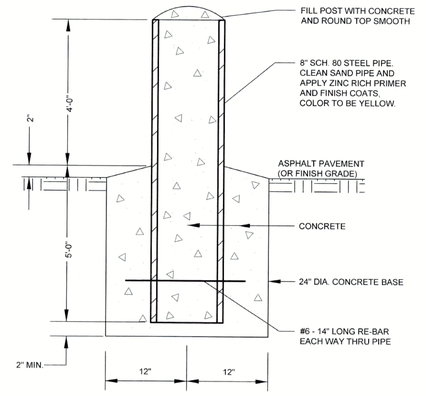
NOTES:

1. FACE OF PIPE FLUSH, OR OTHERWISE NOT TO PROJECT MORE THAN 4" FROM FACE OF WALL ALONG CENTERLINE OF PIPE.
2. RECTANGULAR ORIFICE AND PIPE OPENINGS TO BE COVERED WITH 23 GAUGE GALVANIZED WIRE MESH.

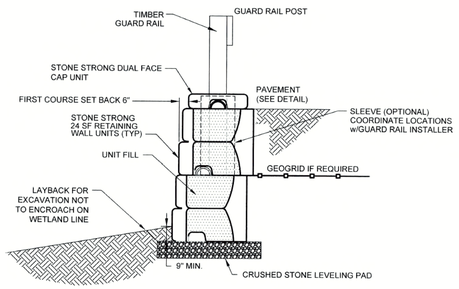


SIDE VIEW OUTLET STRUCTURE

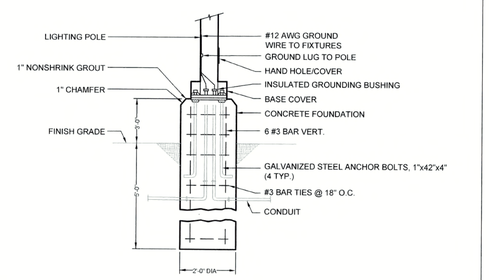
OUTLET CONTROL STRUCTURE (OCS-2)
NOT TO SCALE **C1**



8" CONCRETE FILLED STEEL PIPE BOLLARD
NOT TO SCALE **B4**



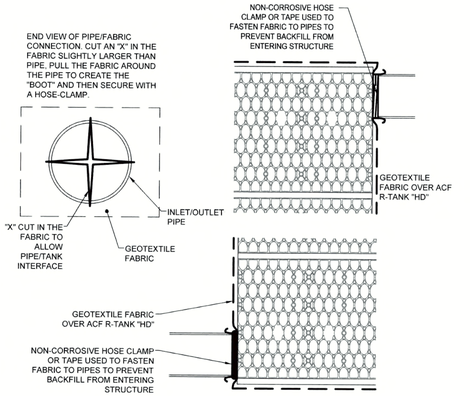
SEGMENTAL BLOCK RETAINING WALL
NOT TO SCALE **B3**



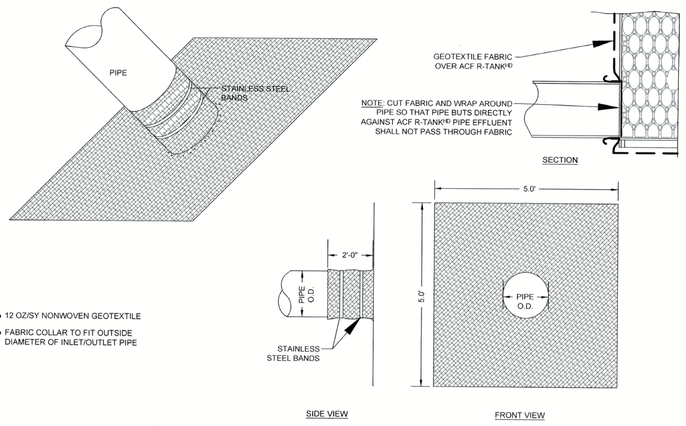
NOTES:

1. ANCHOR BOLT PATTERN TO CONFORM TO LIGHT POLE BASE PATTERN. SHOP DRAWING APPROVAL REQUIRED.
2. CONCRETE & REINFORCEMENT DESIGN TO BE DESIGNED BY OTHERS.

TYPICAL POLE BASE DETAIL
NOT TO SCALE **B2**



R-TANK "HD" TYPICAL INLET/OUTLET
NOT TO SCALE **B1**

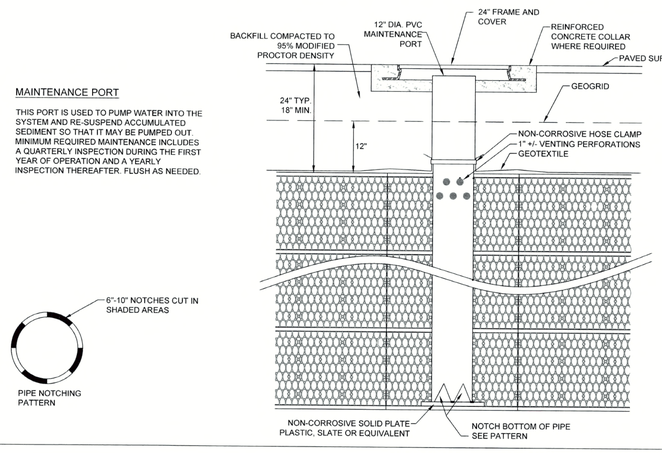


- 12 OZ/SY NONWOVEN GEOTEXTILE
- FABRIC COLLAR TO FIT OUTSIDE DIAMETER OF INLET/OUTLET PIPE

FABRIC PIPE BOOT FOR R-TANK "HD"
NOT TO SCALE **A3**

MAINTENANCE PORT

THIS PORT IS USED TO PUMP WATER INTO THE SYSTEM AND RE-SUSPEND ACCUMULATED SEDIMENT SO THAT IT MAY BE PUMPED OUT. MINIMUM REQUIRED MAINTENANCE INCLUDES A QUARTERLY INSPECTION DURING THE FIRST YEAR OF OPERATION AND A YEARLY INSPECTION THEREAFTER. FLUSH AS NEEDED.

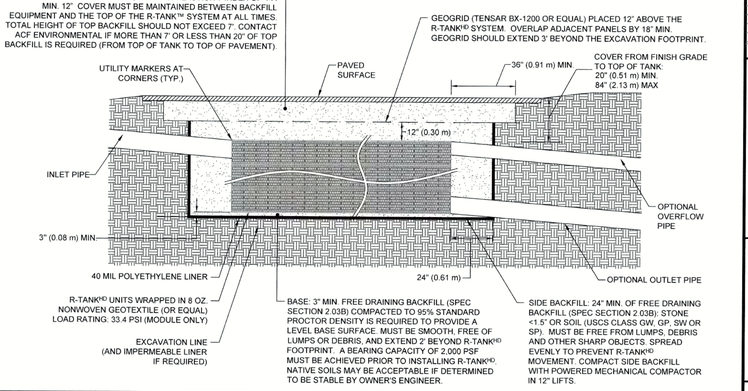


R-TANK MAINTENANCE PORT DETAIL
NOT TO SCALE **A2**

TOTAL COVER: 20" MINIMUM AND 84" MAXIMUM. FIRST 12" MUST BE FREE DRAINING BACKFILL (SPEC SECTION 2.03B): STONE <1.5" OR SOIL (USCS CLASS GW, GP, SW OR SP). ADDITIONAL FILL MAY BE STRUCTURAL FILL (SPEC SECTION 2.03C): STONE OR SOIL (USCS CLASS SM, SP, SW, GM, GP OR GW) WITH MAX CLAY CONTENT<10%, MAX 25% PASSING NO. 200 SIEVE, AND MAX PLASTICITY INDEX OF 4 A MIN. 12". COVER MUST BE MAINTAINED BETWEEN BACKFILL EQUIPMENT AND THE TOP OF THE R-TANK™ SYSTEM AT ALL TIMES. TOTAL HEIGHT OF TOP BACKFILL SHOULD NOT EXCEED 7'. CONTACT ACF ENVIRONMENTAL IF MORE THAN 7' OR LESS THAN 20" OF TOP BACKFILL IS REQUIRED (FROM TOP OF TANK TO TOP OF PAVEMENT).

NOTES:

- FOR COMPLETE MODULE DATA, SEE APPROPRIATE R-TANK©D MODULE SHEET.
- INSTALLATIONS PER THIS DETAIL MEET GUIDELINES OF H20 LOADING PER THE 1983, 13TH EDITION OF THE AMERICAN ASSOCIATION OF STATE, HIGHWAY AND TRAFFIC OFFICIALS (AASHTO) STANDARD SPECIFICATIONS
- PRE-TREATMENT STRUCTURES NOT SHOWN.



R-TANK "HD" TYPICAL SECTION
NOT TO SCALE **A1**

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950 WASHINGTON ST., SUITE 216
DEDHAM, MA 02026
www.HighpointEng.com

CLIENT:
THE SHEARWATER COMPANIES

CONSULTANT:

SEAL
COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J HARTNETT
CIVIL
No. 37398
REGISTERED PROFESSIONAL ENGINEER
03.24.2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION

ISSUE DATE:
3.24.2022

PROJECT NUMBER:
21018

DRAWN BY: AB

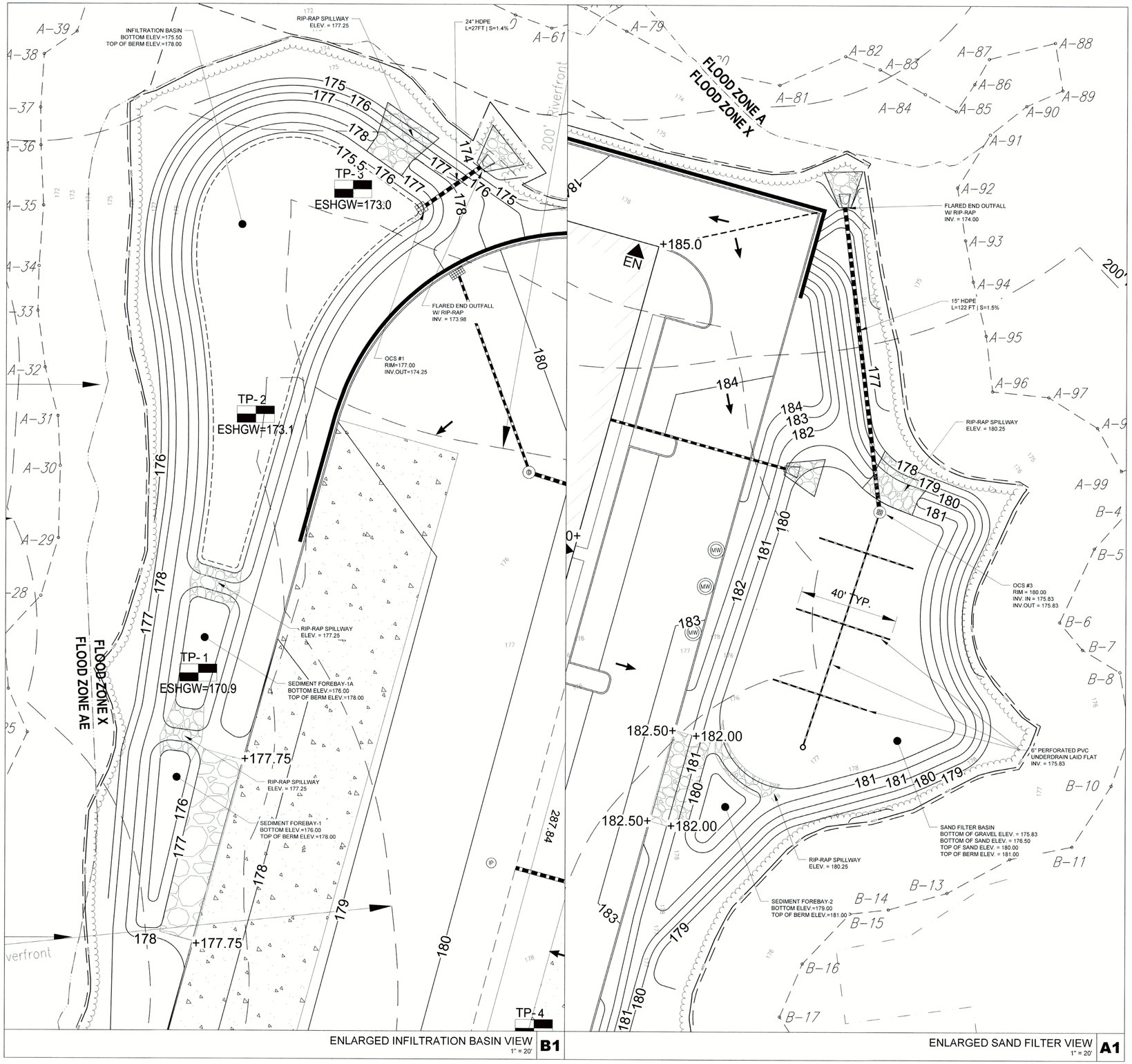
CHECKED BY: JA/DTB

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SHEET TITLE:
DETAIL SHEET

SHEET NUMBER:
C605

P:\Shearwater Companies (The)\21018 (43 Taunton St, Plainville T&M)\04_Design\Dwg\03_DD\21018_DS.dwg



20 0 10 20 40 80

GRAPHIC SCALE 1 inch = 20 ft.

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03-24-2022

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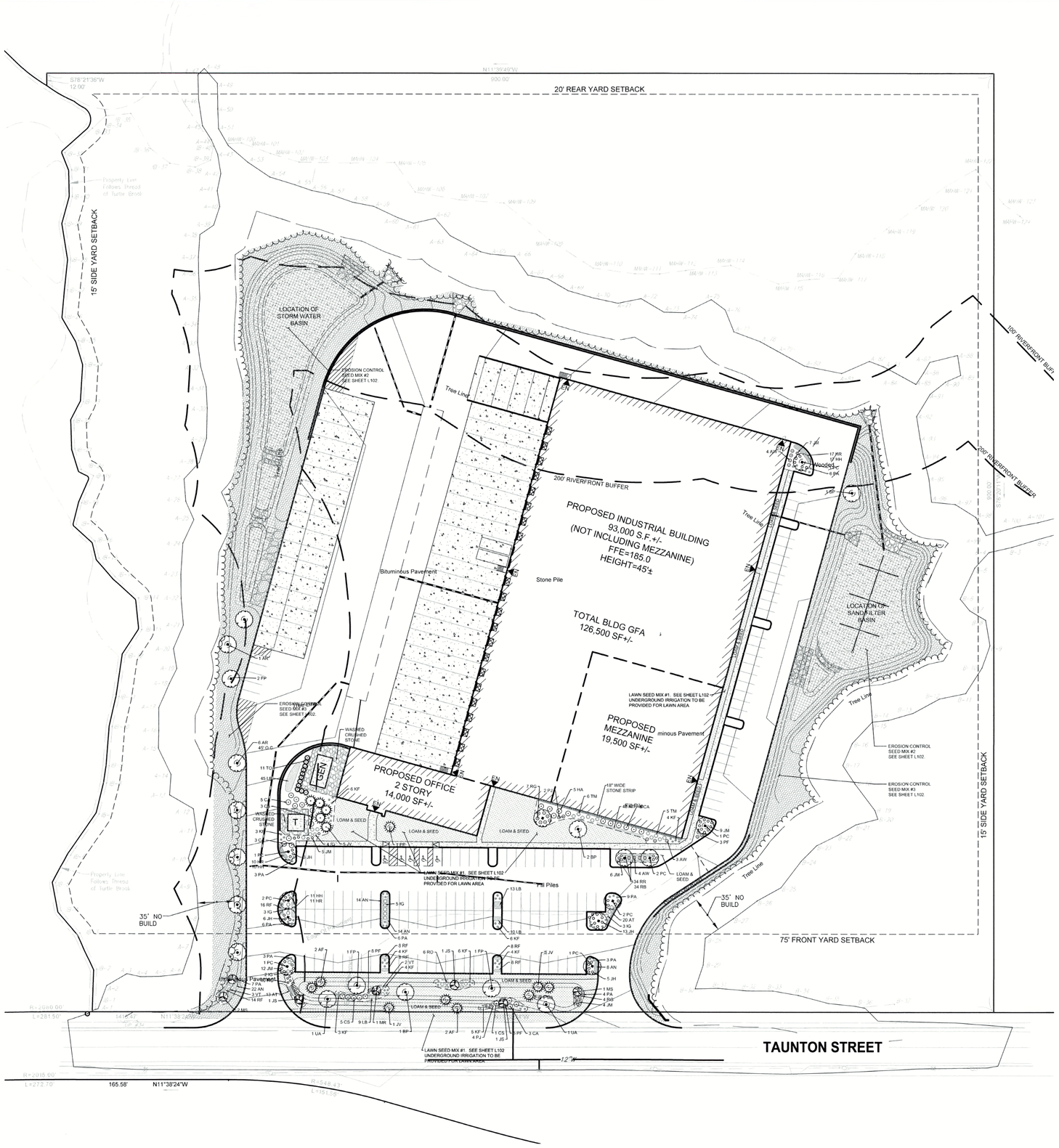
DRAWN BY: AB

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SHEET TITLE:
ENLARGED BASIN PLAN

SHEET NUMBER:
C606



SITE PLANT LIST

KEY	QUANTITY	BOTANICAL NAME	COMMON NAME	MIN. SIZE	COMMENT
DECIDUOUS SHADE TREES / FLOWERING TREES					
AR	7	ACER RUBRUM "REDPOINTE"	REDPOINTE RED MAPLE	2.5"- 3" CAL.	B&B
BP	4	BETULA PAPYRIFERA (CLUMP)	CLUMP PAPER BIRCH	10' - 12' HT.	B&B
FP	4	FRAXINUS PENNSYLVANICA "PATMORE"	GREEN ASH	2.5" - 3" CAL	B&B
JS	3	STEWARTIA PSEUDOCAMELLIA VAR. KOREANA	JAPANESE STEWARTIA	2.5" - 3" CAL.	B&B
MR	1	MALUS "ROYAL RAINDROPS"	ROYAL RAINDROPS FLOWERING CRAB	2.5" - 3" CAL.	B&B
MS	2	MALUS "SPRING SNOW"	FLOWERING CRABAPPLE	2.5" - 3" CAL.	B&B
PC	11	PYRUS CALLERYANA "JACZAM"	JACK ORNAMENTAL PEAR	2.5" - 3" CAL.	B&B
UA	2	ULMUS AMERICANA "PRINCETON"	PRINCETON ELM	2.5" - 3" CAL	B&B
EVERGREEN TREES					
AF	4	ABIES FRASERI	FRASER FIRM	6' - 8' HT	B&B
JV	9	JUNIPERUS VIRGINIANA "EMERALD SENTINEL"	EMERALD SENTINEL REDCEDAR	8' - 10" HT.	B&B
PP	1	PICEAPUNGENS "HOOPSI"	HOOPSI BLUE SPRUCE	6' - 8' HT.	B&B
SHRUBS					
AW	11	SPIRAEA X BUMALDA "ANTHONY WATERER	ANTHONY WATERER SPIREA	18" -24" HT	POT
CA	17	CORNUS ALBA "ELEGANTISSIMA"	SILVER VARIEGATED DOGWOOD	30" - 36" HT	POT
CS	9	CORNUS SANGUINEA "MIDWINTER FIRE"	MIDWINTER FIRE DOGWOOD	30" - 36" HT	POT
HA	5	HYDRANGEA ARBORESCENS "ANNABELLE"	ANNABELLE HYDRANGEA	30" - 36" HT	POT
IG	17	ILEX GLABRA 'SHAMROCK'	INKBERRY	24" - 30" HT	POT
TM	11	TAXUS X MEDIA "DENSIFORMIS"	DENSE YEW	24" - 30" HT	POT
TO	11	THUJA OCCIDENTALIS "SMARAGD"	EMERALD GREEN ARBORVITAE	5' - 6' HT	B&B
JH	27	JUNIPERUS HORIZONTALIS "PLUMOSA" COMPACTA YOUNGSTOWN	ANDORRA JUNIPER	18" - 24" SP	POT
JM	43	JUNIPERUS X MEDIA "DAUB'S FROSTED	DAUB'S FROSTED JUNIPER	18" - 24" SP	POT
PF	17	POTENTILLA FRUITICOSA "MANGO TANGO"	MANGO TANGO POTENTILLA	24" - 30" HT	POT
PJ	6	RHODODENDRON "P.J.M. COMPACT"	COMPACT P.J.M. RHODODENDRON	24" - 30" HT	POT
RG	18	RHODODENDRON "GIRARD'S HOT SHOT"	GIRAR'D HOT SHOT AZALEA	18"- 24" HT.	POT
RO	6	RHODODENDRON "OLGA MEZITT"	OLGA MEZITT RHODODENDRON	30" - 36" HT	POT
VT	5	VIBURNUM TRILOBUM "BAILEY COMPACT"	BAILEY COMPACT HIGHBUSH CRANBERRY	24" - 30" HT	POT
PERENNIALS/GRASSES					
AT	78	ALLIUM TANGUTICUM "SUMMER BEAUTY"	SUMMER BEAUTY ORNAMENTAL CHIVES	#2	STAGGERED
AN	58	ASTER NOVAE-ANGLIAE "PURPLE DOME"	PURPLE DOME ASTER	#3	STAGGERED
HH	39	HEMEROCALLIS X "HAPPY RETURNS"	DAYLILLY	#2	STAGGERED
HR	39	HEMEROCALLIS "ROSY RETURNS"	ROSY RETURN DAYLILLY	#2	STAGGERED
KF	45	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	#3	STAGGERED
LB	77	LEUCANTHEMUM X SUPERBUM "BECKY"	BECKY SHASTA DAISY	#3	STAGGERED
PA	43	PANNISETUM ALOPECUROIDES "HAMELN"	DWARF HAMELN FOUNTAIN GRASS	#3	STAGGERED
RF	62	RUDBECKIA FULGIDA "EARLY BIRD GOLD"	EARLY BIRD GOLD CONEFLOWER	#2	STAGGERED
RB	34	LUPINUS "RUSSELL BLUE	RUSSELL BLUE LUPINE	#3	STAGGERED
RR	34	LUPINUS "RUSSELL RED"	RUSSELL RED LUPINE	#3	STAGGERED

GRAPHIC SCALE 50 0 25 50 100 200 — 1 inch = 50 ft.

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980 WASHINGTON ST., SUITE 216
DEDHAM, MA 02026
www.HighpointEng.com

CLIENT: THE SHEARWATER COMPANIES

CONSULTANT:

SEAL: COMMONWEALTH OF MASSACHUSETTS — DOUGLAS J. HARTNETT — No. 37705 — REGISTERED PROFESSIONAL ENGINEER — 03-24-2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE: PERMIT SUBMISSION
ISSUE DATE: 3.24.2022
PROJECT NUMBER: 21018

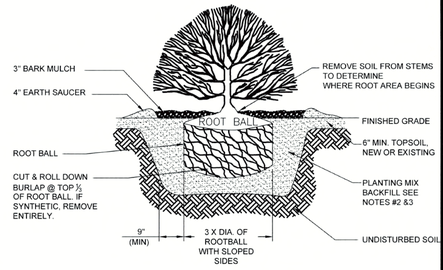
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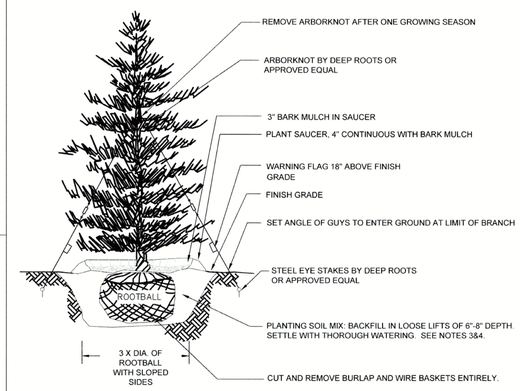
SHEET TITLE: SITE LANDSCAPE PLAN

SHEET NUMBER: L100

NOTES:
1. ALL SHRUBS SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. SET SHRUB 1"-2" ABOVE FINISH GRADE.
2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.
4. SHRUB BEDS TO HAVE 24" MIN. OF CONTINUOUS PLANTING SOIL.



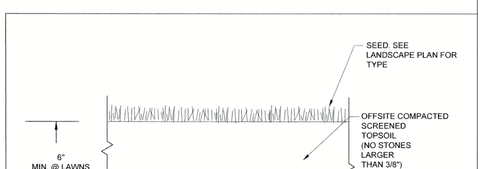
SHRUB PLANTING DETAIL
NOT TO SCALE **C1**



NOTES

1. TREES SHALL BEAR SAME RELATIONSHIP TO FINISH GRADE AS IT BORE TO NURSERY OR FIELD GRADE. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL TOP OF ROOTBALL AREA.
2. INSTALL THREE GUYS PER TREE; EQUALLY SPACED AROUND BALL.
3. ATTACH GUYS AT 2/3 HEIGHT OF TREE.
4. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
5. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.

EVERGREEN TREE DETAIL
NOT TO SCALE **B1**

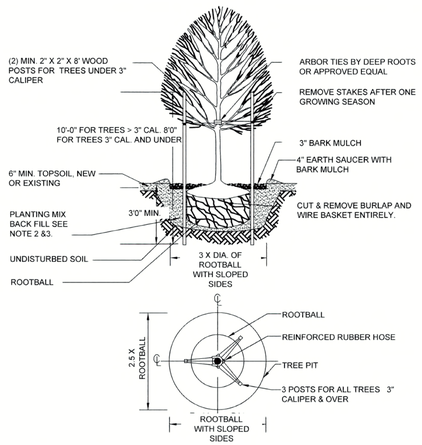


TEXTURE CLASS	% OF TOTAL WEIGHT
SAND	45% - 65%
SILT	15% - 35%
CLAY	5% - 20%

SIEVE	% PASSING
3/8"	100
NO. 4	85-100
NO. 40	60-85
NO. 100	38-60
NO. 200	10-35
20 u/m	LESS THAN 5%

NOTES:
1. TOP OF LOAM (TOPSOIL) IS FINISH GRADE.
2. ALL TOPSOIL (BOTH ONSITE AND OFFSITE SOURCES) SHALL BE COMPOSED OF A NATURAL, FERTILE, FRIABLE SOIL TYPICAL OF CULTIVATED TOPSOILS OF THE LOCALITY. OFFSITE SOIL SHALL BE SUITABLE FOR THE GERMINATION OF SEEDS AND SUPPORT OF VEGETATIVE GROWTH, WITH ADDITIVES, IF REQUIRED, TO ACHIEVE PARTICLE DISTRIBUTION AND ORGANIC CONTENT BELOW. TOPSOIL SHALL BE TAKEN FROM A WELL-DRAINED, ARIABLE SITE, FREE OF SUBSOIL, LARGE STONES, EARTH CLODS, STICKS, STUMPS, CLAY LUMPS, ROOTS, OTHER OBJECTIONABLE, EXTRANEOUS MATTER OR DEBRIS NOR CONTAIN TOXIC SUBSTANCES.
3. THE CONTRACTOR SHALL PROVIDE THE OWNER / LANDSCAPE ARCHITECT WITH TOPSOIL TEST RESULTS (RECOMMEND UMASS AMHERST SOIL TESTING LAB) FOR APPROVAL PRIOR TO OBTAINING AND PLACING THE SOIL. IF ANY TOPSOIL IS PURCHASED OR PLACED PRIOR TO APPROVAL BY OWNER / LANDSCAPE ARCHITECT, IT IS AT CONTRACTORS RISK, AND IT CAN BE REMOVED AT NO ADDITIONAL COST TO THE OWNER. IF THE PLANTING SOIL (BOTH ONSITE AND OFFSITE SOURCES) DOES NOT FALL WITHIN THE REQUIRED SIEVE ANALYSIS, TEXTURAL CLASS, ORGANIC CONTENT, OR PH RANGE, IT SHALL BE ADJUSTED TO MEET THE SPECIFICATIONS THROUGH THE ADDITION OF SAND, COMPOST, LIMESTONE, OR ALUMINUM SULFATE TO BRING IT WITHIN THE SPECIFIED LIMITS AT NO ADDITIONAL COST TO THE OWNER.
4. TOPSOIL SHALL HAVE A PH VALUE BETWEEN 5.5 AND 6.5. TOPSOIL SHALL CONTAIN 8% ORGANIC MATTER OF TOTAL DRY WEIGHT AND SHALL CONFORM TO THE FOLLOWING GRADATION AND TEXTURE CLASS ABOVE.

TOP SOIL FOR LAWN,TREES,SHRUBS & PERENNIALS
NOT TO SCALE **A2**



NOTES:
1. ALL TREES SHALL HAVE THE SAME RELATIONSHIP TO FINISH GRADE AFTER PLANTING AS THEY HAD AT THE ORIGINAL NURSERY SETTING. ROOT FLARE SHALL BE 2" ABOVE FINISH GRADE. REMOVE SOIL FROM TRUNK FLARE OF TREE TO DETERMINE ACTUAL ROOTBALL AREA.
2. BACKFILL WITH PLANTING MIX. PLANT MIX TO BE: 50% NATIVE TOPSOIL, 20% COMPOST (LEAVES & ORGANIC MATERIAL, NO ASH) 20% PEAT MOSS, 10% SAND.
3. ADD MYCORRHIZA SOIL ADDITIVES AND SLOW RELEASE FERTILIZER WHEN PLANT HOLES ARE 50% FILLED AND WATER THOROUGHLY AT COMPLETION.

DECIDUOUS TREE DETAIL
NOT TO SCALE **A1**

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NO. 37...
REGISTERED PROFESSIONAL ENGINEER
03.24.2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

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DRAWN BY: AB

CHECKED BY: JA/DTB

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SHEET TITLE:
LANDSCAPE DETAILS

SHEET NUMBER:
L101

SEED MIX #3

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Erosion Control/Restoration Mix for Dry Sites

Botanical Name	Common Name	Indicator
Elymus canadensis	Canada Wild Rye	FACU+
Festuca rubra	Red Fescue	FACU
Lolium multiflorum	Annual Ryegrass	
Lolium perenne	Perrenial Ryegrass	
Schizachyrium scoparium	Little Bluestem	FACU
Panicum virgatum	Switch Grass	FAC
Sorghastrum nutans	Indian Grass	UPL

PRICE PER LB. $18.00 MIN. QUANITY 5 LBS. **TOTAL:** $90.00 APPLY: 35 LBS/ACRE :1250 sq ft/lb

The New England Erosion Control/Restoration Mix For Dry Sites provides an appropriate selection of native and naturalized grasses to ensure that dry and recently disturbed sites will be quickly revegetated and the soil surface stabilized. It is an appropriate seed mix for road cuts, pipelines, steeper slopes, and areas requiring quick cover during the ecological restoration process. The mix may be applied by hydro-seeding, by mechanical spreader, or on small sites it can be spread by hand. Lightly rake, or roll to ensure proper soil-seed contact. Best results are obtained with a Spring or late Summer seeding. Late Spring through Mid-Summer seeding will benefit from a light mulching of weed-free straw to conserve moisture. If conditions are drier than usual, watering will be required. Fertilization is not required unless the soils are particularly infertile. Preparation of a clean weed free seed bed is necessary for optimal results.

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is $/bulk pound, FOB warehouse, Plus SH and applicable taxes.

SEED MIX #2

NEW ENGLAND WETLAND PLANTS, INC

820 WEST STREET, AMHERST, MA 01002
PHONE: 413-548-8000 FAX 413-549-4000
EMAIL: INFO@NEWP.COM WEB ADDRESS: WWW.NEWP.COM

New England Erosion Control/Restoration Mix For Detention Basins and Moist Sites

Botanical Name	Common Name	Indicator
Elymus riparius	Riverbank Wild Rye	FACW
Schizachyrium scoparium	Little Bluestem	FACU
Festuca rubra	Red Fescue	FACU
Andropogon gerardii	Big Bluestem	FAC
Panicum virgatum	Switch Grass	FAC
Vernonia noveboracensis	New York Ironweed	FACW+
Agrostis perennans	Upland Bentgrass	FACU
Bidens frondosa	Beggar Ticks	FACW
Eupatorium maculatum (Eutrochium maculatum)	Spotted Joe Pye Weed	OBL
Eupatorium perfoliatum	Boneset	FACW
Aster novae-angliae (Symphyotrichum novae-anglia	New England Aster	FACW-
Scirpus cyperinus	Wool Grass	FACW
Juncus effusus	Soft Rush	FACW+

PRICE PER LB. $37.00 MIN. QUANITY 3 LBS. **TOTAL:** $111.00 APPLY: 35 LBS/ACRE :1250 sq ft/lb

The New England Erosion Control/Restoration Mix for Detention Basins and Moist Sites contains a selection of native grasses and wildflowers designed to colonize generally moist, recently disturbed sites where quick growth of vegetation is desired to stabilize the soil surface. It is an appropriate seed mix for ecologically sensitive restorations that require stabilization as well as long-term establishment of native vegetation. This mix is particularly appropriate for detention basins that do not hold standing water. Many of the plants in this mix can tolerate infrequent inundation, but not constant flooding. The mix may be applied by hand, by mechanical spreader, or by hydro-seeder. After sowing, lightly rake, roll or cultipack to insure good seed-to-soil contact. Best results are obtained with a Spring or late Summer seeding. Late Fall and Winter dormant seeding requires an increase in the application rate. A light mulching of clean, weed-free straw is recommended

New England Wetland Plants, Inc. may modify seed mixes at any time depending upon seed availability. The design criteria and ecological function of the mix will remain unchanged. Price is $/bulk pound, FOB warehouse, Plus SH and applicable taxes.

LOAM AND SODDING NOTES

CONTRACTOR SHALL SOD AREAS NOTED ON THE PLANS.

SOD IS TO BE A BLEND OF FOUR TO FIVE CURRENT AND IMPROVED HYBRID BLUEGRASS AND FESCUE MIXES APPROPRIATE FOR BOTH SEMI-SHADED AND AREAS OF SUN.

HYBRIDS MAY INCLUDE: BLACKSTONE KENTUCKY BLUEGRASS, AWARD KENTUCKY BLUEGRASS, CHALLENGER KENTUCKY BLUEGRASS, BLACKBURG II KENTUCKY BLUEGRASS OR COMPARABLE AND EQUAL BLUEGRASS HYBRIDS.

1. SOD SHALL BE HIGH QUALITY, NURSERY GROWN ON CULTIVATED MINERAL AGRICULTURAL SOILS. SOD SHALL BE MOIST, AND MACHINE CUT AT A UNIFORM SOIL THICKNESS OF AT LEAST ¾" AT TIME OF CUTTING. MEASUREMENT FOR THICKNESS SHALL INCLUDE TOP GROWTH AND THATCH. SOD SHALL BE FREE OF DISEASES, WEEDS, BARE SPOTS, OR INSECTS.

2. SODDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RE-SODDING OF BARE SPOTS. IF UNABLE TO SOD WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SODDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.

3. COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.

4. CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RE-SODDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

SEED MIX #1

LOAM AND SEEDING NOTES:

CONTRACTOR SHALL SEED ALL DISTURBED AREAS NOT NOTED TO RECEIVE OTHER MATERIALS, AND AT AREAS SHOWN ON THE PLAN PER SPECIFICATIONS BELOW

SCIENTIFIC NAME	COMMON NAME	PROPORTION BY WEIGHT	PERCENT PURITY	PERCENTGERMINATION
FESTUCA RUBRA "RUBRA"	CREEPING RED FESCUE	37%	95%	90%
PAO PRAENTENSIS "BARON"	BARON KENTUCKY BLUEGRASS	40%	85%	90%
LOLIUM PERENNE "PALMER"	PALMER PERENNIAL RYEGRASS	15%	95%	90%
FESTUCA RUBRA COMMUTATA WILMA	WILMA CHEWINGS	8%	95%	80%

1. SEED TO BE SPREAD AT MINIMUM RATE OF 5 LBS. PER 1000 SQ. FT.

2. SEEDING TO BE COMPLETED "IN SEASON" BETWEEN APRIL 1 TO JUNE 15 OR AUGUST 15 TO OCTOBER 1, EXCEPT FOR RESEEDING OF BARE SPOTS. IF UNABLE TO SEED WITHIN THESE TIMEFRAMES, CONTRACTOR TO INSTALL EROSION CONTROL MATS ON ALL SLOPES 3:1 AND OVER, HYDROSEED ALL EXPOSED AREAS, ADD SOIL STABILIZER "FLUX TERRA HP-FGM SOIL STABILIZER" AS MANUFACTURED BY "PROFILE" TO HYDROSEED (AT RATE OF 3,000 LBS PER ACRE), AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR TO COMPLETE ALL ABOVE "OUT OF SEASON" REQUIREMENTS AND THEN ALSO BE RESPONSIBLE FOR RE-GRADING AND RE-SEEDING ALL DISTURBED, ERODED, OR BARE SPOTS WITHIN NEXT CLOSEST PLANTING SEASON IN FALL OR SPRING AT NO ADDITIONAL COST TO OWNER. CONTRACTOR RESPONSIBLE FOR ALL MAINTENANCE UNTIL FINAL ACCEPTANCE OF LAWN AREAS INCLUDING: WATERING, ADDING FERTILIZERS AND LIME AND MOWING AT NO ADDITIONAL COST TO OWNER.

3. COMMERCIAL FERTILIZER SHALL BE APPLIED AT THE RATE OF 25 POUNDS PER 1000 SQ. FT. OR AS RECOMMENDED BY THE TESTING AGENCY. LIME TO BE SPREAD AT THE RATE OF 100 POUNDS PER 1000 SQ. FT OR AS RECOMMENDED BY THE TESTING AGENCY. COMMERCIAL FERTILIZER SHALL BE A COMPLETE FERTILIZER CONTAINING AT LEAST 50% OF THE NITROGEN OF WHICH IS DERIVED FROM NATURAL ORGANIZE SOURCES OF UREAFORM. IT SHALL CONTAIN THE FOLLOWING PERCENTAGES BY WEIGHT: NITROGEN (N) 10%, PHOSPHORUS (P) 6%, POTASH (K) 4%. LIME SHALL BE AN APPROVED AGRICULTURAL LIMESTONE CONTAINING NOT LESS THAN 85% OF TOTAL CARBONATES. LIMESTONE SHALL BE GROUND TO SUCH FINENESS THAT 50% WILL PASS A 100 MESH SIEVE AND 90% WILL PASS THROUGH A 20 MESH SIEVE.

4. LAWN AREAS TO BE SEEDED BY SOWING EVENLY WITH AN APPROVED MECHANICAL SEEDER AT THE RATE OF TEN POUNDS PER 1000 SQUARE FEET.

5. CONTRACTOR RESPONSIBLE FOR WATERING, MOWING, AND RESEEDING OF LAWN BARE SPOTS UNTIL A UNIFORM, HEALTHY STAND OF GRASS IS ESTABLISHED AND ACCEPTED.

HIGHPOINT ENGINEERING, INC.
LAND PLANNING
PERMIT EXPEDITING
CIVIL ENGINEERING
CONSULTING

DEDHAM EXECUTIVE CENTER
980 WASHINGTON ST., SUITE 216
DEDHAM, MA 02026

www HighpointEng.com

CLIENT:

THE SHEARWATER COMPANIES

CONSULTANT:

SEAL

COMMONWEALTH OF MASSACHUSETTS
DOUGLAS J. HARTNETT
No. 37698
REGISTERED PROFESSIONAL ENGINEER
03.24.2022

PROPOSED INDUSTRIAL BUILDING

43 TAUNTON STREET
PLAINVILLE, MA 02762

OWNER/APPLICANT: TSC TAUNTON STREET 43 LLC c/o THE SHEARWATER COMPANIES

REV	DATE	DESCRIPTION

ISSUE TYPE:
PERMIT SUBMISSION

ISSUE DATE:
3.24.2022

PROJECT NUMBER:
21018

DRAWN BY: AB

CHECKED BY: JA/DTB

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SHEET TITLE:

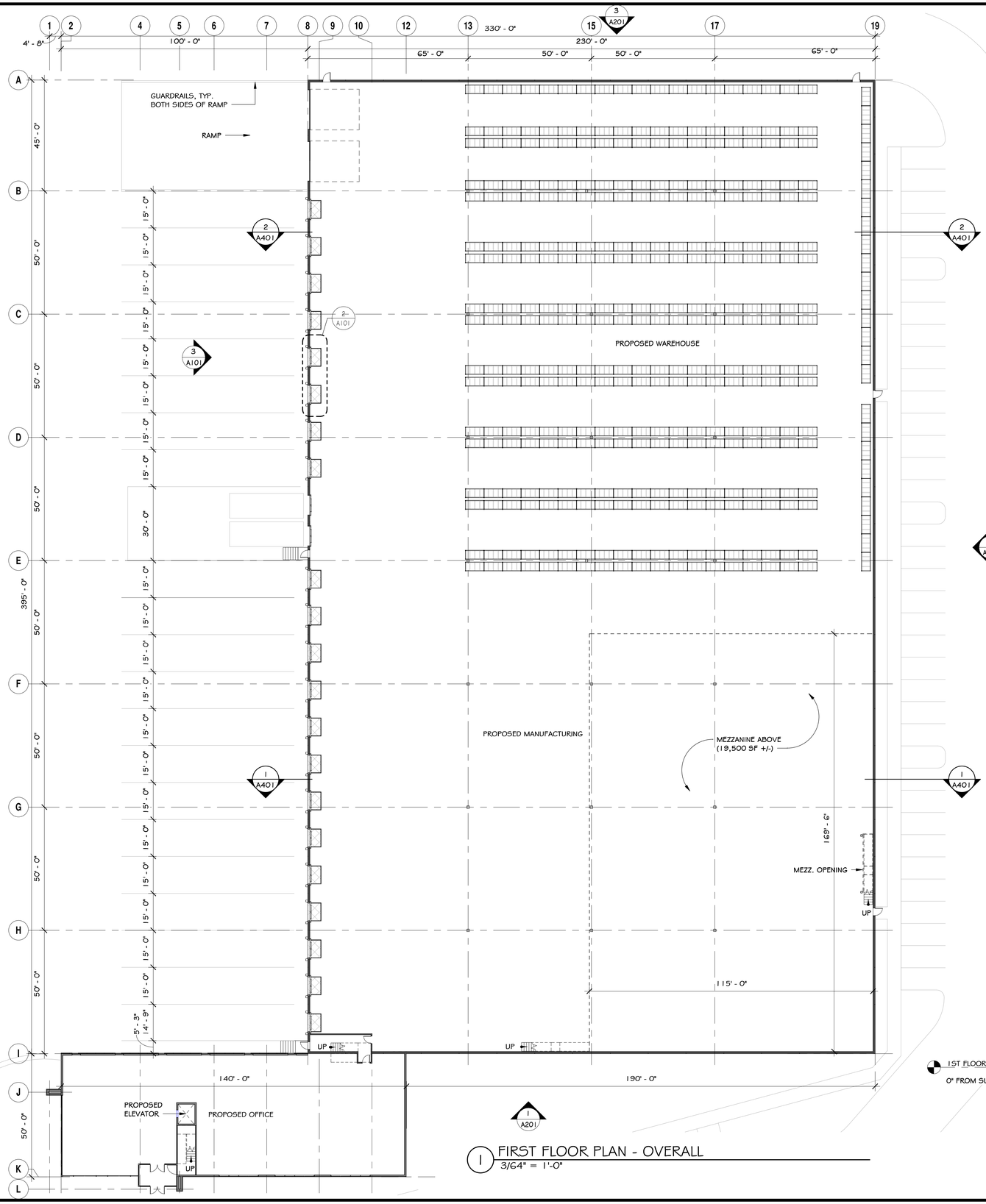
LANDSCAPE SEED MIX PLAN

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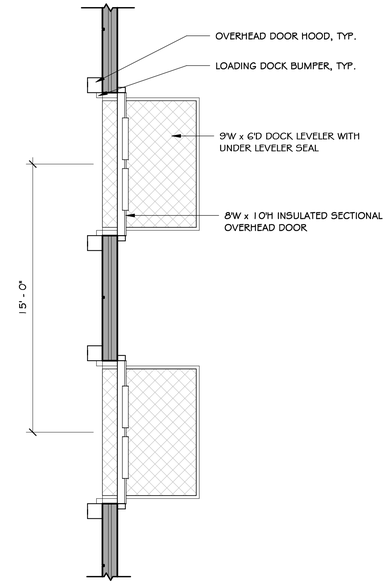
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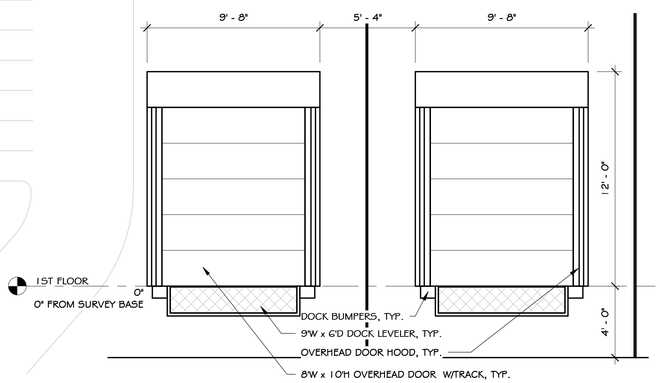
1. REFER TO CIVIL DRAWINGS FOR SITE LAYOUT AND DETAILS



1 FIRST FLOOR PLAN - OVERALL
3/64" = 1'-0"



2 ENLARGED LOADING DOCK PLAN
1/4" = 1'-0"



3 ENLARGED LOADING DOCK ELEVATION
1/4" = 1'-0"

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No.	Date	Description

PROPOSED INDUSTRIAL DEVELOPMENT
43 TAUNTON STREET
PLAINVILLE, MA 02762

FIRST FLOOR PLAN

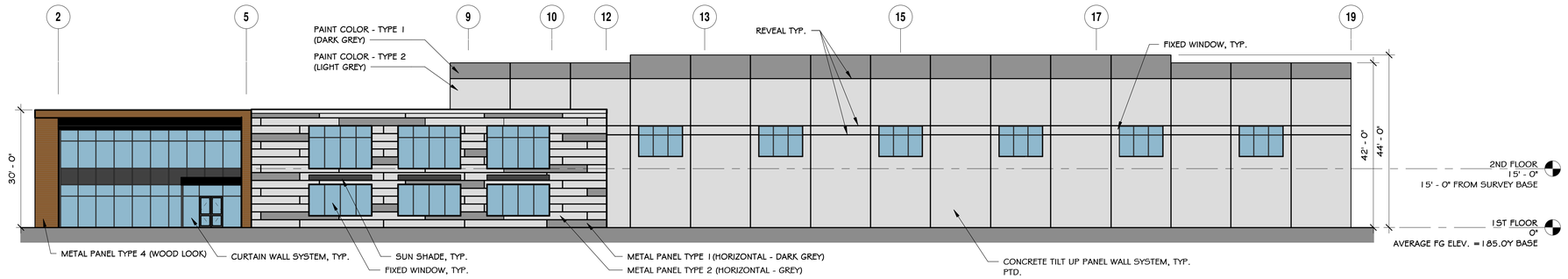
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Project Number: 21-065
Date: 03/04/2022
PROJECT TRUE
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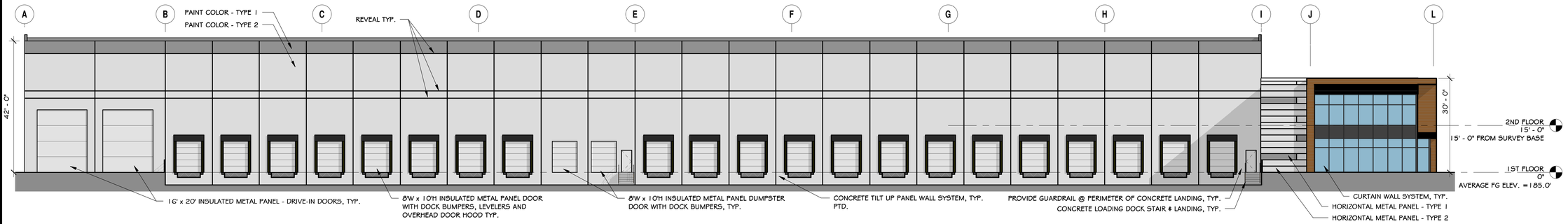
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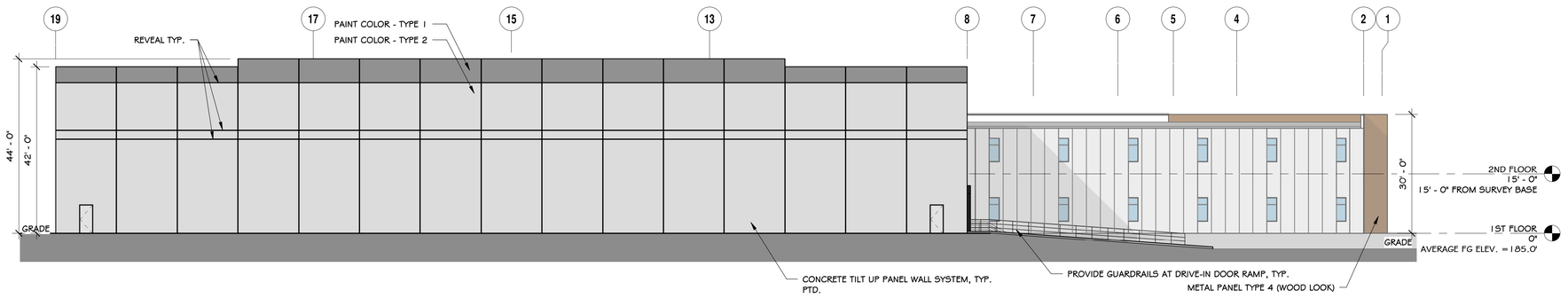
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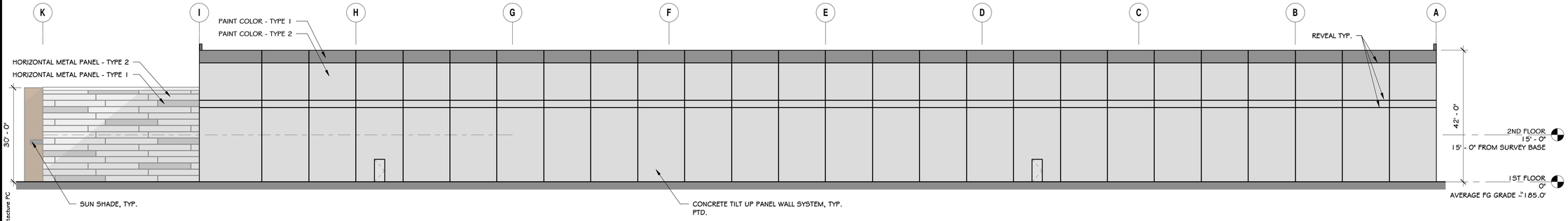
1 EXTERIOR ELEVATION 1
1/16" = 1'-0"



2 EXTERIOR ELEVATION 2
1/16" = 1'-0"



3 EXTERIOR ELEVATION 3
1/16" = 1'-0"



4 EXTERIOR ELEVATION 4
1/16" = 1'-0"

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No.	Description	Date

PROPOSED INDUSTRIAL DEVELOPMENT
43 TAUNTON STREET
PLAINVILLE, MA 02762

EXTERIOR ELEVATIONS

Scale: 1/16" = 1'-0"

Project Number: 21-065
Date: 03/04/2022

PROGRESS PRINT

A201

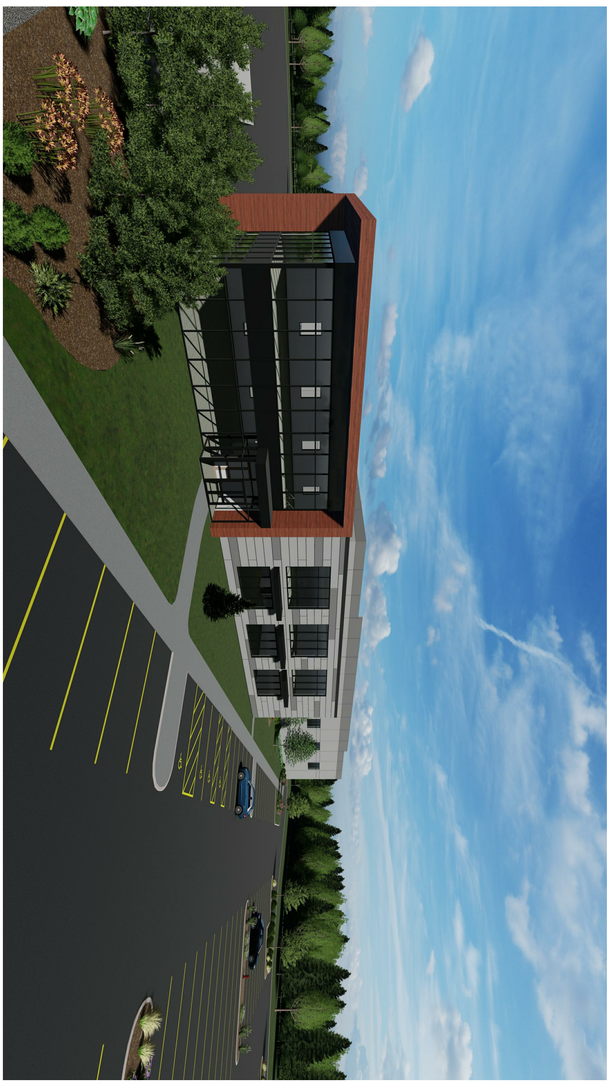
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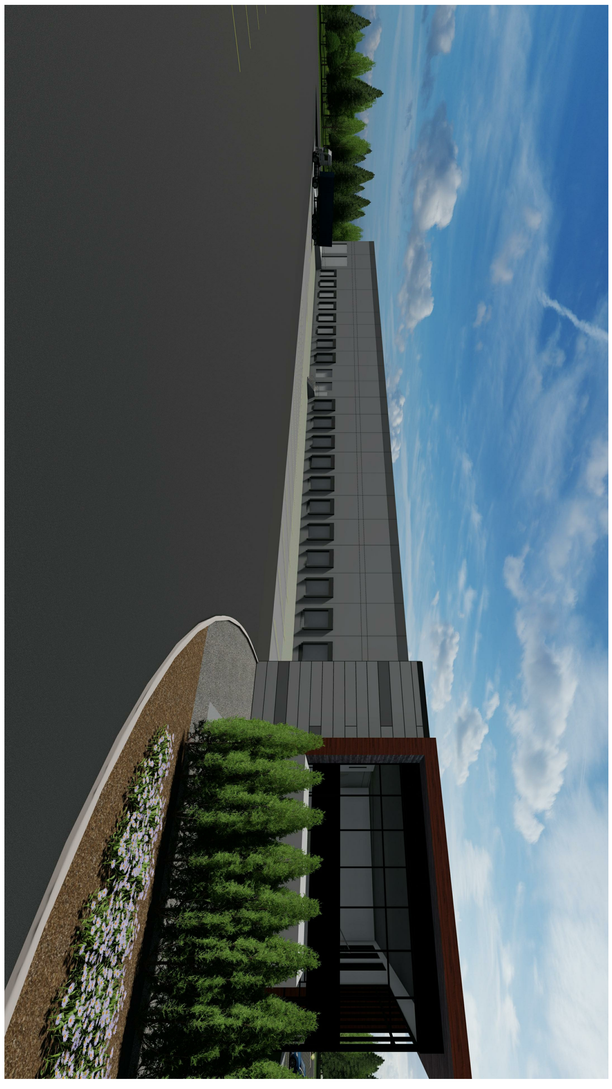
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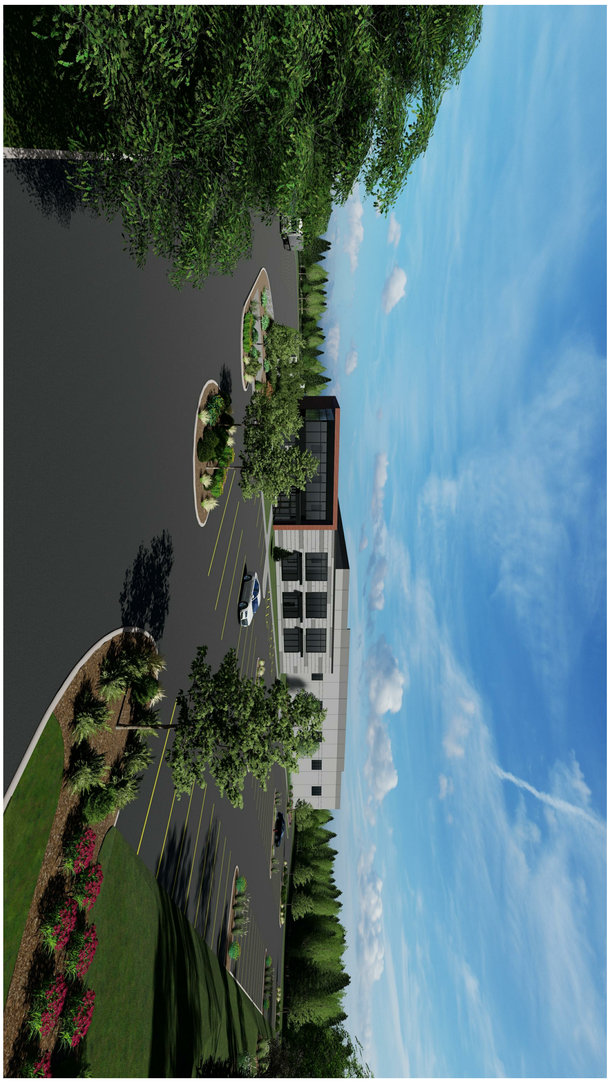
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A301

PROGRESS PRINT

Project Number: 21-065

Date: 03/04/2022

PROPOSED INDUSTRIAL DEVELOPMENT
43 TAUNTON STREET
PLAINVILLE, MA 02762

PROPOSED RENDERINGS

Scale:

No.	Date	Description

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Plat 6 Lot 27
Michael & Teri Cocciapaglia
Book 628 Page 200

Plat 6 Lot 23
TSC Taunton Street 43, LLC
Registered Land Certificate #206173
18.11± Acres

52

Plat 6 Lot 24
Natural Resources Trust
Book 7388 Page 82

602

Plat 6 Lot 27
Michael & Teri Cocciapaglia
Book 628 Page 200

Plat 6 Lot 22
BASF Catalysts, LLC

Plat 6 Lot 21
BASF Catalysts, LLC

Plat 6 Lot 20
BASF Catalysts, LLC

Plat 6 Lot 19
BASF Catalysts, LLC

Plat 6 Lot 18
BASF Catalysts, LLC

Taunton Street (MA Route 152)

Property Line Follows Thread of Turtle Brook

Turtle Brook

100 YEAR FLOOD ZONE AE ELEV.=176

100 YEAR FLOOD ZONE AE ELEV.=180

FLOOD ZONE AE

FLOOD ZONE X

FLOOD ZONE A

100' Wetland Buffer

200' Riverfront

35' NO BUILD

Edge Of Pavement

Tree Line

Gravel

Wooded

Bituminous Pavement

Stone Pile

Silt Fence

Fill Piles

Fill Pile

Gravel Dirt Road

Guardrail

Granite Curb

Bituminous Walk

Chainlink Fence

Drain Manhole Rim=184.46

Catch Basin Rim=184.17

Sewer Manhole Rim=181.41

Catch Basin Rim=182.71

Catch Basin Rim=183.08

Iron Pipe Found 1.99' on Taunton St. 5.69' North of Corner

MHB Found 2.4' down 1.0' off Taunton Street

MHB Found 1.0' down 1.15' off Taunton Street

Broken MHB Found 2.0' down Center 0.29' on Taunton Street

1" Iron Pipe Found (Flush) 0.21' South of Corner

Concrete Bound with Drillhole Found

Benchmark
Nail in Utility Pole 29
Elevation 185.56 NAVD 1988

S78°21'36"W 12.00'

N11°39'49"W 900.00'

S78°20'11"W 900.00'

S11°38'24"E 683.21'

N11°38'24"W 1415.47'

N11°38'24"W 165.58'

N21°51'04"W 267.81'

R=2080.00' L=281.50'

R=2015.00' L=272.70'

R=348.43' L=151.56'

R=1400.00' L=636.39'

R=167.07' L=297.99'

R=146.50' L=239.80' to Land Court Bound with Disk Found

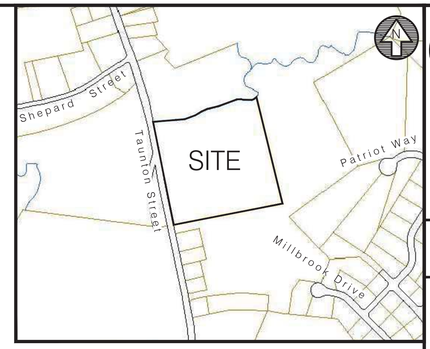
N09°21'36"E 125.46'

L=36.79'

865.00'

MW-20B
MW-20A
MW-09C
MW-09B
MW-09A
MW-51A
MW-51B
WTP-1A1d
WTP-1A1c

MAHW-100 MAHW-101 MAHW-102 MAHW-103 MAHW-104 MAHW-105 MAHW-106 MAHW-107 MAHW-109 MAHW-110 MAHW-111 MAHW-112 MAHW-113 MAHW-114 MAHW-115 MAHW-116 MAHW-117 MAHW-118 MAHW-119 MAHW-120 MAHW-121 MAHW-122 MAHW-123 MAHW-124



LOCUS MAP
Not to Scale

MA State Plane NAD 1983

References:

Land Court Plans 35213A through F
Massachusetts Highway Layout 3210
Plans #7 through 11 of 1936 – Plan Book 119
Plan #89 of 1951 – Book 2977 Page 74
Plan #547 of 1954 – Plan Book 186
Plan #1198 of 1954 – Book 3297 Page 294
Plan #1197 of 1956 – Book 3507 Page 305
Plan #875 of 1962 – Book 4007 Page 345
Plan #1228 of 1960 – Plan Book 209
Plan #207 of 1960 – Book 3797 Page 597

Note: Turtle Brook located by inland bank flagging and aerial mapping

Soil Map Unit Legend

- Soil Boundary Line
- 51 Swansea Muck, 0 To 1 Percent Slopes
- 52 Freetown Muck, 0 To 1 Percent Slopes
- 245B Hinckley Loamy Sand, 3 To 8 Percent Slopes
- 260B Sudbury Fine Sandy Loam, 2 To 8 Percent Slopes
- 602 Urban Land, 0 To 15 Percent Slopes

COMMONWEALTH OF MASSACHUSETTS RONALD N THUSMAN REGISTERED PROFESSIONAL LAND SURVEYOR

50 0 25 50

Civil
Transportation
Environmental
Site Planning
Surveying
Permitting
Landscape Architecture

Crossman Engineering

Rhode Island
151 Centerville Road
Warwick, RI 02886
Phone (401) 738-5660

Massachusetts
103 Commonwealth Avenue
North Attleboro, MA 02763
Phone (508) 695-1700

Email: cei@crossmaneng.com

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Notes:

1. The purpose of this plan is to depict the current conditions of an area of land located within Assessor's Map 6 Plat 23.
2. Field survey work performed by Crossman Engineering in November and December of 2021. Flag locations located previously.
3. Utility note: Any utilities shown hereon are plotted from field location of visible above ground structures. Any underground utility information shown hereon must be verified in the field prior to any excavation or construction on this site. The contractor or users of this plan should contact digsafe prior to any work. Crossman Engineering assumes no responsibility for the accuracy or completeness of the information shown.
4. The horizontal datum is the Massachusetts state plane coordinate system (NAD83) and the vertical datum is NAVD88 utilizing gps rtk network control.
5. Existing Soil Boundaries Taken from Natural Resources Conservation Services, Web Soil Survey, Norfolk and Suffolk Counties, Massachusetts.

Legend

- Bollard
- xxx Contour line
- xx.x Spot Elevation
- Sign
- Drainage Catch Basin
- Drainage Manhole
- Silt Fence
- Tree / Hedge Line

Boundary & Existing Conditions Plan

Assessors Plat 6 Lot 23

43 Taunton Street
Plainville MA, 02762

Prepared For:
Highpoint Engineering, Inc.
45 Dan Road, Suite 140
Canton, MA 02021

DATE:	SCALE:
December 2, 2021	1" = 50'

REVISIONS

1	Added Benchmark, Soil Mapping, Utility Data, and Extended Topo	12/20/21
2	Boundary	01/06/2022
3	Flood, Brook	01/20/2022
3	Flood	02/01/2022

Project Number M249

Sheet 1/1