

ZONING DISTRICT

INDUSTRIAL

MINIMUM BUILDING SETBACKS

FRONT=40 FEET
SIDE=30 FEET*
REAR=30 FEET*

* INCREASE BY THE COMMON BUILDING HEIGHT OF THE STRUCTURE WHEN ABUTTING A RESIDENTIAL USE.

DEED REFERENCES

ATLANTIC OLIVER 15 LIBERTY WAY, LLC
DEED BOOK 39279 PAGE 278

PLAN REFERENCES

PLAN NO. 879 OF 1994
PLAN NO. 878 OF 1994
PLAN NO. 47 OF 1995

SITE CONTROLS:

THE FOLLOWING ADDITIONAL CONTROLS SHALL BE IMPLEMENTED DURING CONSTRUCTION IN ORDER TO MINIMIZE EROSION AND RUNOFF FROM THE PROJECT LOCATION:

- CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO CONTROL DUST ON PROJECT SITE, INCLUDING BUT NOT LIMITED TO THE ADDITION OF DRY CALCIUM ON THE ACCESS ROAD TOWARDS ENTRANCE AT LIBERTY WAY.
- CONTRACTOR SHALL TAKE APPROPRIATE MEASURES TO KEEP LIBERTY WAY CLEAR OF MUD, EXCESS GRAVEL, AND OTHER CONSTRUCTION DEBRIS.
- NO CHEMICALS (CEMENT, MORTAR, ETC.) SHALL BE MIXED OR POURED WITHIN ANY WETLANDS OR BUFFER ZONE
- SOLID WASTE WILL BE COLLECTED AND STORED IN A SECURE DUMPSTER. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS.
- CONSTRUCTION DEBRIS MAY INCLUDE LUMBER, CONCRETE, STEEL, OR OTHER DEBRIS AND SITE MATERIALS REQUIRING REMOVAL. THESE MATERIALS WILL BE DISPOSED OF ACCORDING TO STATE AND FEDERAL LAW AND WILL NOT BE DISPOSED OF ON SITE. EXCESS SOIL GENERATED FROM THIS SITE REQUIRES CHARACTERIZATION PRIOR TO REMOVAL. RATHER THAN EXPORT MATERIAL, IT IS PREFERRED THAT MINOR EXCAVATIONS ARE REUSED ON SITE AS BACKFILL IN THE SAME GENERAL AREA IT ORIGINATED.
- THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE PROPOSED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE THE LIMITS OF DISTURBANCE SHALL REMAIN UNDISTURBED.
- CONTINUOUS LINES OF EROSION CONTROLS SHALL ENCLOSE THE DOWNSTREAM SIDES OF THE WORK AREA, THESE COMBINED WITH UP-SLOPE MARKERS (CONS. FENCE AND/OR FLAGGING) WILL SERVE AS THE LIMIT OF WORK.
- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED OR REPLACED AS REQUIRED BY THE SITE CONTRACTOR TO ASSURE PROPER FUNCTION.
- ALL BREACHES OR FAILURES IN SEDIMENT CONTROLS SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE SITE CONTRACTOR.
- DEBRIS AND LITTER, WHICH ACCUMULATES ALONG THE CONSTRUCTION AREA, SHALL BE REMOVED DAILY.
- SEDIMENT BUILD-UP BEHIND ANY SILT FENCES OR EROSION CONTROL BARRIERS WILL BE MONITORED AND REMOVED WHENEVER SEDIMENT HAS ACCUMULATED TO 3-INCHES IN DEPTH.
- OTHER CONTROLS WILL BE IMPLEMENTED, AS DEEMED NECESSARY BY THE CONTRACTOR, DURING THE CONSTRUCTION OF THE PROJECT.
- IF CONDITIONS WARRANT, ADDITIONAL DE-WATERING CONTROLS MAY BE NEEDED SUCH AS DIRT BAGS, FRAC TANKS OR OTHER MEASURES.
- STORMWATER INFILTRATION BASINS ARE NOT TO BE UTILIZED AS TEMPORARY SEDIMENT BASINS. IF TEMPORARY SEDIMENT BASINS AREA REQUIRED, THEY SHALL BE DESIGN AND SITED BY THE SITE ENGINEER.
- THE LOCATION OF ALL STORMWATER INFILTRATION BASINS SHALL BE FIELD STAKED AFTER SITE CLEARING ACTIVITIES HAVE BEEN COMPLETED. INFILTRATION AREAS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION TO AVOID EXCESSIVE COMPACTION OF THESE AREAS. ONCE THE BASINS HAVE BEEN GRADED PERIMETER EROSION CONTROLS IN THE FORM OF SILT SOCK AND STAKED EROSION CONTROL FENCING SHALL BE INSTALLED ALONG THE UP-GRADIENT SIDE TO PREVENT UNCHECKED SURFACE RUNOFF FROM ENTERING THE BASIN AREA AND SHALL BE MAINTAINED UNTIL FINAL SITE STABILIZATION. IT SHALL BE THE RESPONSIBILITY OF THE SITE CONTRACTOR TO REMOVE ANY ACCUMULATED SEDIMENT WHICH ENTERS THE INFILTRATION BASIN PRIOR TO FINAL SITE STABILIZATION TO A DEPTH OF 6" BELOW THE ACCUMULATED SEDIMENT AND THE BOTTOM OF THE BASIN BE FILLED WITH CLEAN SAND TO 6" BELOW FINISH GRADED WHERE STONE BASE IS TO BE INSTALLED.

EROSION CONTROL GENERAL NOTES:

EROSION AND SEDIMENT CONTROL METHODS FOR THE SITE INCLUDE STRUCTURAL AND STABILIZATION PRACTICES. STABILIZATION PRACTICES WILL BE IMPLEMENTED TO COVER EXPOSED SOIL SO THAT DISCHARGE OF SEDIMENT IS MINIMIZED. STABILIZATION PRACTICES REDUCE THE TIME SOIL IS EXPOSED TO THE ELEMENTS THEREFORE REDUCING THE POSSIBILITY OF EROSION. AN ADEQUATE STOCKPILE OF EROSION CONTROL MATERIALS WILL BE MAINTAINED AT THE CONSTRUCTION SITE IN THE EVENT OF AN EMERGENCY OR ROUTINE REPAIRS.

STRUCTURAL PRACTICES INVOLVE THE CONSTRUCTION OF DEVICES TO DIVERT AND LIMIT RUNOFF. THESE PRACTICES LIMIT THE AMOUNT OF STORM WATER ENTERING A DISTURBED AREA OR TRAP SEDIMENT PRIOR TO STORM WATER LEAVING A SITE. THE FOLLOWING ARE THE PROCEDURES TO BE FOLLOWED:

- THE SITE CONSTRUCTION FOREMAN SHALL BE DESIGNATED AS THE ON-SITE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR THE DAILY MAINTENANCE OF ALL SEDIMENT AND EROSION CONTROLS, AND SHALL IMPLEMENT ALL MEASURES NECESSARY TO CONTROL EROSION AND TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- PRIOR TO ANY SITE GRADING OR SITE WORK, THE CONTRACTOR SHALL INSTALL ALL SPECIFIED SEDIMENT AND EROSION CONTROLS, WHICH WILL ALSO SERVE AS THE LIMIT OF CONSTRUCTION. THE SEDIMENT CONTROLS WILL BE AS SPECIFIED ON THE APPROVED PLANS.
- ANY WORK UP TO 100' OF WETLAND RESOURCE AREA (NOT DETAILED IN THE SITE PLAN) IS TO HAVE A SECONDARY ROW OF SILT SOCK & EROSION CONTROL BARRIER. EROSION CONTROL TYPE AS SHOWN ON THE PLANS TO BE FIELD VERIFIED BASED ON CONSTRUCTION TIMING, PHASING AND SITE CONDITIONS.
- A CONSTRUCTION EXIT SHALL BE CONSTRUCTED TO SHED DIRT FROM CONSTRUCTION VEHICLE TIRES. THE CRUSHED STONE PAD WILL BE REPLACED/CLEANED AS NEEDED TO MAINTAIN ITS EFFECTIVENESS.
- CONSTRUCTION DEBRIS AND SEDIMENT SHALL BE KEPT ON SITE AND SHALL NOT BE PERMITTED TO MIGRATE BEYOND THE PROJECT BOUNDARIES.
- ONCE THE SITE IS STABLE, THE SEDIMENT AND EROSION CONTROLS MAY BE REMOVED UNDER THE DIRECTION OF THE EROSION CONTROL SPECIALIST.

EROSION CONTROL CONSTRUCTION NOTES:

IN ORDER TO FURTHER MINIMIZE SEDIMENT LOSS ON THE SITE, A GENERAL CONSTRUCTION SEQUENCE PLAN HAS BEEN DEVELOPED. PRIOR TO CONDUCTING WORK ASSOCIATED WITH THIS PROJECT, THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL COPIES OF PERMIT APPLICATIONS AND APPROVALS THAT OUTLINE CONDITIONS GOVERNING THE PROPOSED WORK. THE CONTRACTOR WILL ALSO REVIEW THE DRAWINGS PREPARED FOR THE PROJECT. THE CONTRACTOR WILL THEN FOLLOW THE GENERAL SEQUENCE OF WORK AS OUTLINED BELOW:

- CONTRACTOR SHALL COORDINATE WITH LOCAL POLICE DEPARTMENT REGARDING TRAFFIC SAFETY MEASURES TO BE EMPLOYED DURING CONSTRUCTION.
- A TRAFFIC CONTROL OFFICER SHALL BE USED FOR MAJOR DELIVERIES TO THE SITE.
- THE CONTRACTOR WILL PLACE ALL EROSION AND SEDIMENTATION CONTROL SYSTEMS IN ACCORDANCE WITH THE DRAWINGS, OR AS MAY BE DICTATED BY SITE CONDITIONS, IN ORDER TO MAINTAIN THE INTENT OF THE SPECIFICATIONS AND PERMITS. DEFICIENCIES OR CHANGES ON THE DRAWINGS SHALL BE CORRECTED OR IMPLEMENTED AS SITE CONDITIONS CHANGE. CHANGES DURING CONSTRUCTION SHALL BE NOTED AND POSTED ON THE DRAWINGS (SITE PLANS).
- THE INTENT IS TO DIRECT ALL WATER FROM DISTURBED AREAS THROUGH SEDIMENTATION CONTROLS PRIOR TO LEAVING CONSTRUCTION BOUNDARIES. THERE SHALL BE NO DISCHARGE OF UNTREATED CONSTRUCTION RUNOFF FROM THIS SITE.
- THE CONTRACTOR SHALL MAINTAIN TEMPORARY EROSION AND SEDIMENTATION CONTROL SYSTEMS AS DICTATED BY SITE CONDITIONS, INDICATED IN THE CONSTRUCTION DOCUMENTS, OR AS DIRECTED BY GOVERNING AUTHORITIES OR OWNER TO CONTROL SEDIMENT UNTIL FINAL STABILIZATION.
- THE CONTRACTOR SHALL RESPOND TO ANY MAINTENANCE OR ADDITIONAL WORK ORDERED BY OWNER OR GOVERNING AUTHORITIES IMMEDIATELY, IF REQUIRED, AND ALWAYS WITHIN 7 DAYS.
- THE CONTRACTOR SHALL INCORPORATE PERMANENT EROSION CONTROL FEATURES, PERMANENT SLOPE STABILIZATION, AND VEGETATION INTO THE PROJECT PLANS AT THE EARLIEST PRACTICAL TIME TO MINIMIZE THE NEED FOR TEMPORARY CONTROLS.
- TREE AND VEGETATION CLEARING AND ANY ROUGH GRADING SHALL ONLY OCCUR IF THE DISTURBED SOIL SURFACE CAN BE STABILIZED WITHIN 48 HOURS OF CLEARING. TREE AND VEGETATION CLEARING SHALL BE SCHEDULED IN CONJUNCTION WITH WEATHER FORECAST SUCH THAT NO MORE THAN 1/4" OF RAIN IS TO BE EXPECTED WITHIN 48 HOURS OF ANY CLEARING OR GRADING ACTIVITY.
- ANY AREA DISTURBED WITHIN THE LIMIT OF WORK, BUT NOT WITHIN THE LIMITS OF THE APPROVED LIMITS OF CONSTRUCTION ARE TO BE SEEDED WITH NEW ENGLAND CONSERVATION/ WILDLIFE SEED MIX UNLESS SPECIFIED OTHERWISE IN THE PLAN SET.
- THE CONTRACTOR SHALL STABILIZE ALL DISTURBED AREAS WITHIN 48 HOURS AFTER FINAL GRADING. IN THE EVENT THAT IT IS NOT PRACTICAL TO SEED AREAS, SLOPES MUST BE STABILIZED WITH GEOTEXTILE FABRIC OR OTHER MEANS TO REDUCE THE EROSION POTENTIAL OF THE AREA.

EROSION STRUCTURAL PRACTICES

SILTATION CONTROL USING EROSION 12" DIA. FILTREXX SILT SOCKS, OR APPROVED EQUAL WITH STAKED EROSION CONTROL FENCE.

EROSION CONTROL LINE IS TO BE VISUALLY INSPECTED AFTER EVERY RAIN FALL AND REPAIRS MADE AS REQUIRED TO THE SILTATION CONTROL FENCE AND STRAW WATTLE AFTER EACH RAIN FALL. CLEAN-OUT OF ACCUMULATED SEDIMENT BEHIND THE WATTLE IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE WATTLE APPEARS TO HAVE BEEN INUNDATED WITH SEDIMENT.

PRESERVE TOPSOIL

SITE OWNERS AND OPERATORS MUST PRESERVE EXISTING TOPSOIL ON THE CONSTRUCTION SITE TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES IN THE POST-CONSTRUCTION PHASE OF THE PROJECT.

STABILIZATION OF SOILS

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

ANY DISTURBED AREAS THAT WILL NOT HAVE ACTIVE CONSTRUCTION ACTIVITY OCCURRING WITHIN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS MUST BE STABILIZED BY THE USE OF TEMPORARY AND/OR FINAL SEEDING OF THAT AREA.

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO GRUB AND STRIP TOP SOIL THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME.

STEEP SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS IN AREAS OF STEEP SLOPES AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. ONCE AN STEEP SLOPE AREA HAS BEEN TEMPORARY AND/OR FINAL SEEDED IT SHALL BE PROTECTED WITH 4' HIGH ORANGE CONSTRUCTION TO PREVENT FURTHER DISTURBANCE OF THE AREA.

THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

TYPE	% BY WEIGHT
ANNUAL RYE GRASS	40
PERENNIAL RYE GRASS	60

STORMWATER INLET PROTECTION

INLET PROTECTION - WILL BE UTILIZED TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. THESE MEASURES ARE USUALLY TEMPORARY AND ARE IMPLEMENTED BEFORE A SITE IS DISTURBED.

MAINTENANCE - THE OPERATOR MUST CLEAN, OR REMOVE AND REPLACE THE INLET PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR AS PERFORMANCE IS COMPROMISED. ACCUMULATED SEDIMENT ADJACENT TO THE INLET PROTECTION MEASURES SHOULD BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING WORK DAY IF REMOVAL BY THE SAME WORK DAY IS NOT FEASIBLE.

STORMWATER BASINS - ALL AREAS CONTAINING STORMWATER BASINS (ABOVE OR BELOW GROUND) SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THESE AREAS ARE NOT TO BE USED FOR MATERIAL STOCKPILES OR FOR PARKING EQUIPMENT. SURFACE BASINS ARE TO BE ROUGH GRADED AND PROTECTED UNTIL STABILIZED AND BROUGHT ON-LINE FOR STORMWATER MANAGEMENT OF THE STABILIZED SITE.

CONSTRUCTION ENTRANCES

CONSTRUCTION ENTRANCES SHALL BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF SEDIMENT TRACKING OFF THE PROJECT. ANY CONSTRUCTION SITE ACCESS POINT MUST EMPLOY THE CONTROL MEASURES ON THE APPROVED SITE PLANS AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN. CONSTRUCTION ENTRANCES SHALL BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES. ALL CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.

THE SITE OWNER AND OPERATOR MUST WILL RESTRICT VEHICLE USE TO PROPERLY DESIGNATED EXIT POINTS, USE PROPERLY DESIGNED AND CONSTRUCTED CONSTRUCTION ENTRANCES AT ALL POINTS THAT EXIT ONTO PAVED ROADS SO THAT SEDIMENT REMOVAL OCCURS PRIOR TO VEHICLE EXIT. WHEN AND WHERE NECESSARY, USE ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXIT (I.E. WHEEL WASHING RACKS, RUMBLE STRIPS, AND RATTLE PLATES). WHERE SEDIMENT HAS BEEN TRACKED OUT FROM THE CONSTRUCTION SITE ONTO THE SURFACE OF OFF-SITE STREETS, OTHER PAVED AREAS, AND SIDEWALKS, THE DEPOSITED SEDIMENT MUST BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK OUT OCCURS. TRACK-OUT MUST BE REMOVED BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL.

STOCKPILE AND MATERIAL STAGING CONTAINMENT

PERIMETER EROSION CONTROLS SHALL BE USED ONSITE TO MINIMIZE OR ELIMINATE THE DISCHARGE OF SOIL, TOPSOIL, BASE MATERIAL OR RUBBLE, FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. ALL STOCKPILES MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE, PROTECTED FROM RUN-ON WITH THE USE OF TEMPORARY SEDIMENT BARRIERS AND PROVIDED WITH COVER OR STABILIZATION TO AVOID CONTACT WITH PRECIPITATION AND WIND WHERE AND WHEN PRACTICAL. STOCK PILE MANAGEMENT CONSISTS OF PROCEDURES AND PRACTICES DESIGNED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL, RUBBLE) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, YOU MUST COMPLY WITH THE FOLLOWING REQUIREMENTS - LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE OUTSIDE OF THE 100-FOOT BUFFER ZONE, PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY PERIMETER SEDIMENT BARRIER; WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE; NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER; TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT FROM WIND.

TEMPORARY SEDIMENT BASINS

IF REQUIRED, ADDITIONAL TEMPORARY SEDIMENT BASINS ARE REQUIRED, TO THE PROPOSED MITIGATION DETAILED WITHIN THESE DESIGN PLANS, TO MITIGATE THE POTENTIAL SEDIMENT LOADING TO THE ADJACENT RESOURCE AREAS THE DESIGN ENGINEER SHALL BE CONTACTED TO DESIGN AND SITE NEW TEMPORARY SEDIMENT BASIS AS REQUIRED. TEMPORARY SEDIMENT BASINS SHALL BE LOCATED OUTSIDE OF THE 100-FOOT BUFFER ZONE TO ANY RESOURCE AREAS THAT ARE NOT SCHEDULED FOR PERMANENT ALTERATION, UNLESS NO ALTERNATIVES ARE AVAILABLE. TEMPORARY SEDIMENT BASIN LOCATION, DESIGN AND GRADING BE DICTATED BY THE DESIGN ENGINEER. AT A MINIMUM THE VOLUME OF THE TEMPORARY SEDIMENT BASIN, AS MEASURED FROM THE BOTTOM OF THE BASE TO THE ELEVATION OF THE CREST OF THE PRINCIPAL SPILLWAY SHALL BE AT LEAST 3,600 CUBIC FEET PER ACRE OF DRAINAGE AREA. THIS 3,600 CUBIC FEET IS EQUIVALENT TO 1.0 INCH OF SEDIMENT PER ACRE OF DRAINAGE AREA. ADDITIONAL STORAGE IN THE FORM OF A PERMANENT WET POOL SHALL BE PROVIDED WHENEVER PRACTICABLE, BUT MAY NOT BE USED TO FULFILL THE TEMPORARY STORAGE VOLUME REQUIREMENT.

SEDIMENT BASINS SHALL BE CLEANED OUT WHEN THE VOLUME REMAINING AS DESCRIBED ABOVE IS REDUCED BY SEDIMENTATION TO 1,800 CUBIC FEET PER ACRE OF DRAINAGE AREA (50 PERCENT FULL). IN NO CASE SHALL THE SEDIMENT LEVEL BE PERMITTED TO BUILD UP HIGHER THAN ONE FOOT BELOW THE PRINCIPAL SPILLWAY CREST. AT THIS ELEVATION, CLEANOUT SHALL BE PERFORMED TO RESTORE THE ORIGINAL DESIGN VOLUME TO THE SEDIMENT BASIN. THE ELEVATION OF THE MAXIMUM ALLOWABLE SEDIMENT LEVEL SHALL BE DETERMINED AND SHALL BE STATED IN THE DESIGN DATA AS A DISTANCE BELOW THE TOP OF THE RISER AND BE CLEARLY MARKED ON THE RISER.

CONSTRUCTION SEQUENCING:

- INSTALL EROSION AND SEDIMENT CONTROLS;
- CUT TREES;
- CLEAR TREES AND REMOVE/GRIND STUMPS;
- INSTALL TEMPORARY SEDIMENT BASINS AND CONVEYANCE SWALES AND BERMS
- GRUB AND ROUGH GRADE SITE AND ACCESS DRIVEWAYS;
- INSTALL BUILDING FOUNDATION;
- INSTALL STORMWATER MANAGEMENT SYSTEM AND SITE UTILITIES;
- CONSTRUCT RETAINING WALLS;
- CONSTRUCT DRIVEWAYS, PARKING AND LOADING AREAS AND INSTALL BINDER COAT PAVEMENT;
- INSTALL SITE LANDSCAPING;
- FINE GRADE SITE AND LOAM AND SEED ALL REMAINING DISTURBED AREAS;
- INSTALL TOP COAT PAVEMENT;
- PROJECT CLOSE OUT.

NOTES

- THIS SURVEY AND PLAN ARE BASED UPON AN ACTUAL ON THE GROUND INSTRUMENT SURVEY PERFORMED BETWEEN NOVEMBER 2, 2022 AND AUGUST 2, 2023.
- LEGAL STATUS OF THE STREETS AND/OR WAYS SHOWN HEREON, WHETHER THEY ARE PUBLIC OR PRIVATE, WERE NOT MADE PART OF THIS SURVEY.
- ALL FLOWERING PLANTS, SHRUBS, OR TREES MAY NOT BE SHOWN WITHIN LANDSCAPING AREAS. IT IS MEANT FOR ILLUSTRATIVE PURPOSES ONLY AND NOT MEANT AS A COMPLETE INVENTORY OF ALL VEGETATION THAT MAY EXIST. SIZES REFLECT APPROXIMATE TRUNK DIAMETER AT BREAST HEIGHT OR APPROXIMATE DIAMETER OF SHRUB WIDTH.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. UNDERGROUND UTILITIES ARE SHOWN BASED ON EITHER RECORD DATA PROVIDED BY THE OPERATING AUTHORITIES, VISUAL INSPECTION OF AVAILABLE ABOVEGROUND STRUCTURES, PHYSICAL SURFACE MARKINGS FOUND, OR DATA PROVIDED BY OTHERS. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATIONS, ETC. PRIOR TO NEW CONNECTIONS TO OR RELOCATION OF SAME. CONTRACTOR MUST NOTIFY DIG-SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION. NOTIFY THIS FIRM IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- THE SUBJECT PROPERTY DOES NOT FALL IN A SPECIAL FLOOD HAZARD ZONE AS THE SUBJECT PROPERTY IS PLOTTED BY SCALE ONTO THE FLOOD INSURANCE RATE MAP FOUND AS,
COUNTY NORFOLK
COMMUNITY TOWN OF FRANKLIN
PANEL 250240 0317E
EFFECTIVE DATE JULY 17, 2012
ZONE "X"
- THE SUBJECT PROPERTY DOES NOT FALL IN THE TOWN OF FRANKLIN'S WATER RESOURCE PROTECTION DISTRICT.

DATUM NOTES

HORIZONTAL DATUM:
MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B) - US FEET

ON-THE-GROUND OBSERVATIONS WERE PERFORMED USING A LEICA TS13 (3") ROBOTIC TOTAL STATION AND WITH A SOKKIA GCX3 GPS RECEIVER USING THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION (MoCORS) RTK NETWORK.

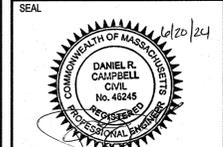
CONSTRUCTION NOTES:

- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING PAVEMENT SHALL BE SAWCUT PRIOR TO REMOVAL.
- ALL EXISTING PAVEMENT, CURB, WALKS, UTILITIES, LIGHT POLES, TREES, SHRUBS, ETC., SHALL BE REMOVED FROM THE AREAS TO BE DEVELOPED. ALL SUCH ITEMS NOT WITHIN THE WORK AREA SHALL BE PROTECTED AND UNDISTURBED.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEEDDED.
- ALL CONSTRUCTION AND CONSTRUCTION ACTIVITIES SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS. INCLUDING BUT NOT LIMITED TO THE TOWN OF FRANKLIN, MASSACHUSETTS AND ANY OTHER AGENCIES HAVING JURISDICTION.

SITE PLAN NOTES:

- THIS PLAN SET HAS BEEN ISSUED FOR PERMITTING ONLY. A FULL CONSTRUCTION PLAN SET SHALL BE ISSUED ONCE ALL LOCAL, STATE, AND FEDERAL PERMIT APPROVALS HAVE BEEN GRANTED.

NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/22/2023	REVIEW COMMENTS
3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	06/20/2024	REVISE LAYOUT



DATE:	JANUARY 13, 2023
DRAWN:	AH / DRC
SCALE:	1" = 40'

LIBERTY PARKING EXPANSION
 MAP SHEET 320, PARCEL 004
 15 LIBERTY WAY
 FRANKLIN, MASSACHUSETTS

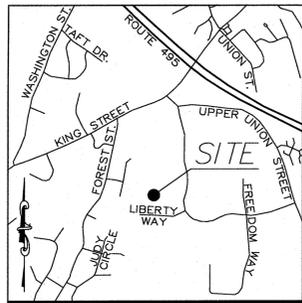


DESIGN NOTES

C-0.1

SHEET 2 OF 11

2081.00



LOCUS MAP
not to scale

PLAN NO. 879
OF 1994



LEGEND

B	BOLLARD
BIT.	BITUMINOUS
CLF	CHAIN LINK FENCE
-D-	UNDERGROUND DRAIN LINE
DB	DEED BOOK
DMH	DRAIN MANHOLE
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
FES	FLARED END SECTION
FFE	FINISHED FLOOR ELEVATION
HYD	FIRE HYDRANT
INV	INVERT
N/F	NOW OR FORMERLY
RBF	REBAR FOUND
-S-	UNDERGROUND SEWER LINE
SMH	SEWER MANHOLE
PC	PAGE
RCP	REINFORCED CONCRETE PIPE
-W-	UNDERGROUND WATER LINE
WG	WATER GATE

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INDUSTRIAL

MINIMUM BUILDING SETBACKS

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- LEGAL STATUS OF THE STREETS AND/OR WAYS SHOWN HEREON, WHETHER THEY ARE PUBLIC OR PRIVATE, WERE NOT MADE PART OF THIS SURVEY.
- ALL FLOWERING PLANTS, SHRUBS, OR TREES MAY NOT BE SHOWN WITHIN LANDSCAPING AREAS. IT IS MEANT FOR ILLUSTRATIVE PURPOSES ONLY AND NOT MEANT AS A COMPLETE INVENTORY OF ALL VEGETATION THAT MAY EXIST. SIZES REFLECT APPROXIMATE TRUNK DIAMETER AT BREAST HEIGHT OR APPROXIMATE DIAMETER OF SHRUB WIDTH.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY, AND ARE NOT WARRANTED TO BE CORRECT. UNDERGROUND UTILITIES ARE SHOWN BASED ON EITHER RECORD DATA PROVIDED BY THE OPERATING AUTHORITIES, VISUAL INSPECTION OF AVAILABLE ABOVEGROUND STRUCTURES, PHYSICAL SURFACE MARKINGS FOUND, OR DATA PROVIDED BY OTHERS. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATIONS, ETC. PRIOR TO NEW CONNECTIONS TO OR RELOCATION OF SAME. CONTRACTOR MUST NOTIFY DIG-SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION. NOTIFY THIS FIRM IN WRITING OF ANY AND ALL DISCREPANCIES PRIOR TO COMMENCING ANY WORK.
- THE SUBJECT PROPERTY DOES NOT FALL IN A SPECIAL FLOOD HAZARD ZONE AS THE SUBJECT PROPERTY IS PLOTTED BY SCALE ONTO THE FLOOD INSURANCE RATE MAP FOUND AS:
COUNTY NORFOLK
COMMUNITY TOWN OF FRANKLIN
PANEL 250240 0317E
EFFECTIVE DATE JULY 17, 2012
ZONE "X"
- THE SUBJECT PROPERTY DOES NOT FALL IN THE TOWN OF FRANKLIN'S WATER RESOURCE PROTECTION DISTRICT.

DATUM NOTES

HORIZONTAL DATUM:
MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011) EPOCH 2010.00 - US FEET

VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B) - US FEET

ON-THE-GROUND OBSERVATIONS WERE PERFORMED USING A LEICA TS13 (3") ROBOTIC TOTAL STATION AND WITH A SOKKIA GCX3 GPS RECEIVER USING THE MASSACHUSETTS CONTINUOUSLY OPERATING REFERENCE STATION (MCCORS) RTK NETWORK.

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS, TITLE 250 CMR 6.00.

Robert R. Litchfield
ROBERT R. LITCHFIELD, PLS #47615 DATE

NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/22/2023	REVIEW COMMENTS
3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	06/20/2024	REVISE LAYOUT

DATE: JANUARY 13, 2023
DRAWN: AH/DRC
SCALE: 1"=40'

LIBERTY PARKING EXPANSION

MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS



EXISTING CONDITIONS

C-1.0

SHEET 3 OF 11

2081.00

ZONING DISTRICT

ZONED: INDUSTRIAL
 USE: 3.10 WAREHOUSE, DISTRIBUTION FACILITY (EXISTING)

MINIMUM BUILDING SETBACKS

FRONT=40
 FEET SIDE=30 FEET
 REAR=30 FEET

DEED REFERENCES

ATLANTIC OLIVER 15 LIBERTY WAY, LLC
 DEED BOOK 39279 PAGE 278

PLAN REFERENCES

PLAN NO. 879 OF 1994
 PLAN NO. 878 OF 1994
 PLAN NO. 47 OF 1995



ZONING REQUIREMENTS

ZONING DISTRICT: INDUSTRIAL

	REQUIRED	EXISTING	PROPOSED
MIN. LOT AREA	40,000 S.F.	653,400± S.F.	653,400± S.F.
FRONTAGE	175'	946.73'	946.73'
FRONT YARD SETBACK	40'	95.9'***	95.9'***
SIDE YARD SETBACK	30'	149.3'	149.3'
REAR YARD SETBACK	30'	259.6'	259.6'
BUILDING COVERAGE	70% MAX.	14.6%**	14.6%**
IMPERVIOUS COVERAGE	80% MAX.	46.7%***	56.9%***
MAX. BUILDING HEIGHT	3 STORIES*	1 STORY/24'	1 STORY/24'
PARKING REQUIREMENTS			
USE: EXISTING WAREHOUSE; ONE SPACE PER 1,000 SF OF GROSS FLOOR AREA.	95,475 SF /1,000 SF =96 SPACES	98	(98) EXISTING

* BUILDINGS UP TO 60' IN HEIGHT MAY BE PERMITTED BY A SPECIAL PERMIT FROM THE PLANNING BOARD.
 ** BUILDING AREA IS BASED ON FRANKLIN ASSESSORS RECORDS
 *** TAKEN FROM THE RECORD SURVEY IN ADDITION TO AERIAL IMAGERY.

PLAN NOTES:

- EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC BETWEEN NOVEMBER 2, 2022 AND AUGUST 2, 2023. SOIL TESTING COMPLETED BY ADAM P. HUNT ON NOVEMBER 16, 2022 AND OCTOBER 4, 2023.
- THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.
- CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE DESIGN PLANS PRIOR TO THE START OF CONSTRUCTION.
- ALL DISTURBED AREAS NOT RECEIVING IMPROVEMENTS SHALL BE LOAMED AND SEEDED.
- THE SITE IS NOT LOCATED WITHIN A ZONE II WATER RESOURCE DISTRICT.
- THE SITE IS NOT LOCATED WITHIN A FLOOD PLAIN DISTRICT.

CONSTRUCTION NOTES:

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- MATERIAL TO BE EXPORTED FROM THE SITE WILL BE LIMITED TO TOPSOIL IN AREAS TO BE PAVED AND ANY DELETERIOUS MATERIAL ENCOUNTERED DURING EXCAVATION. MATERIAL TO BE EXPORTED WILL BE LIMITED TO GRAVEL BASE AND SEPTIC AGGREGATE.

SITE PLAN NOTES:

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5	06/20/2024	REVISE LAYOUT

DATE: JANUARY 13, 2023
 DRAWN: AH/DRC
 SCALE: 1"=50'

LIBERTY PARKING EXPANSION

MAP SHEET 320, PARCEL 004
 15 LIBERTY WAY
 FRANKLIN, MASSACHUSETTS



OVERALL SITE PLAN

C-1.1

SHEET 4 OF 11

0' 25' 50' 100'

2081.00

ZONING DISTRICT

ZONED: INDUSTRIAL

USE: 3.10 WAREHOUSE, DISTRIBUTION FACILITY (EXISTING)

MINIMUM BUILDING SETBACKS

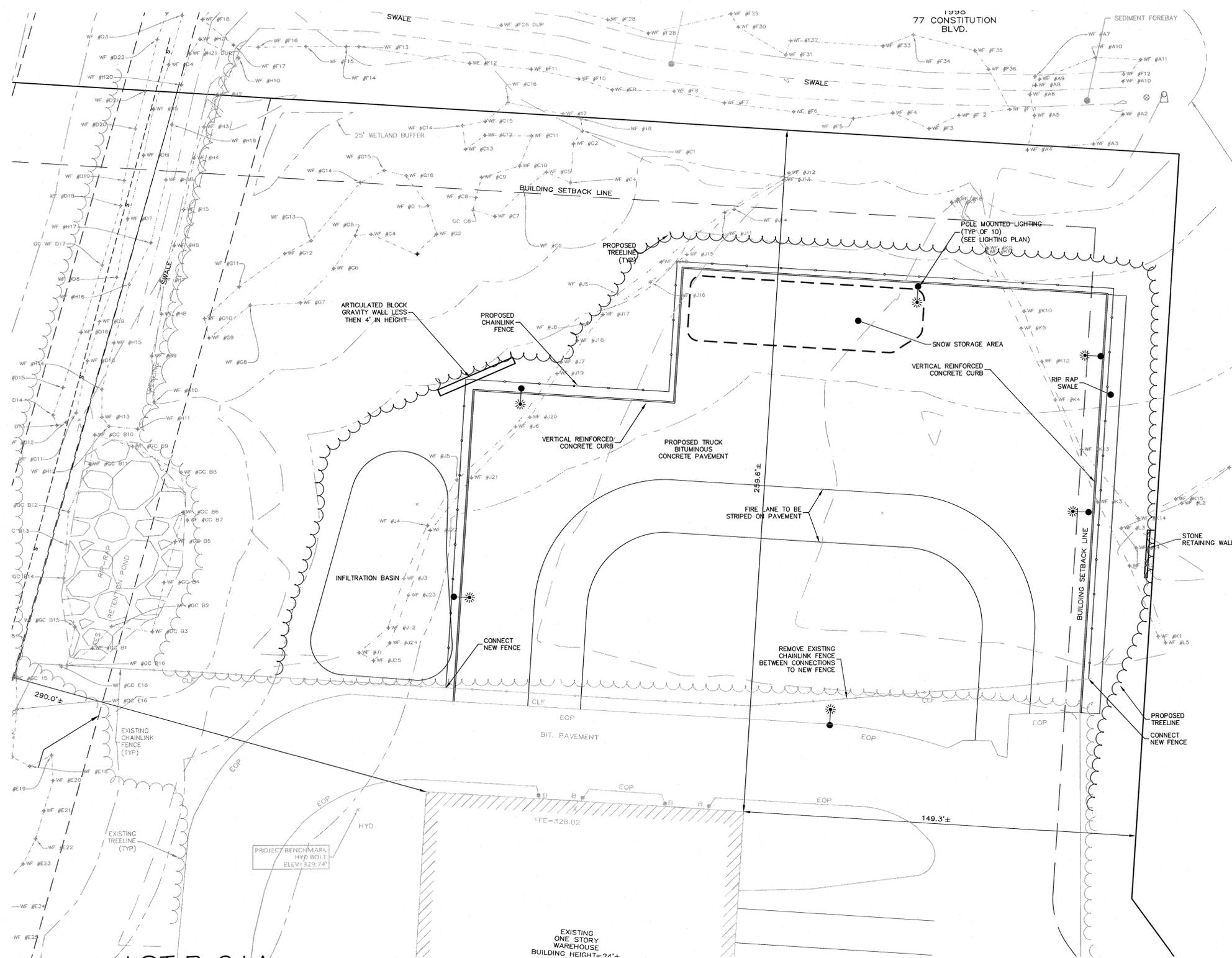
FRONT=40
FEET SIDE=30 FEET
REAR=30 FEET

DEED REFERENCES

ATLANTIC OLIVER 15 LIBERTY WAY, LLC
DEED BOOK 39279 PAGE 278

PLAN REFERENCES

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PLAN NO. 878 OF 1994
PLAN NO. 47 OF 1995



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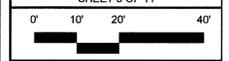
DATE: JANUARY 13, 2023
DRAWN: AH / DRC
SCALE: 1" = 20'

LIBERTY PARKING EXPANSION
MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS

LEVEL DESIGN GROUP
249 SOUTH STREET, UNIT 1
PLAINVILLE, MA 02762
TEL: (508) 695-2221 FAX: (508) 695-2219

LAYOUT & MATERIALS

C-2.0
SHEET 5 OF 11



2081.00

ZONING DISTRICT

ZONED: INDUSTRIAL
USE: 3.10 WAREHOUSE, DISTRIBUTION FACILITY (EXISTING)

MINIMUM BUILDING SETBACKS

FRONT=40
FEET SIDE=30 FEET
REAR=30 FEET

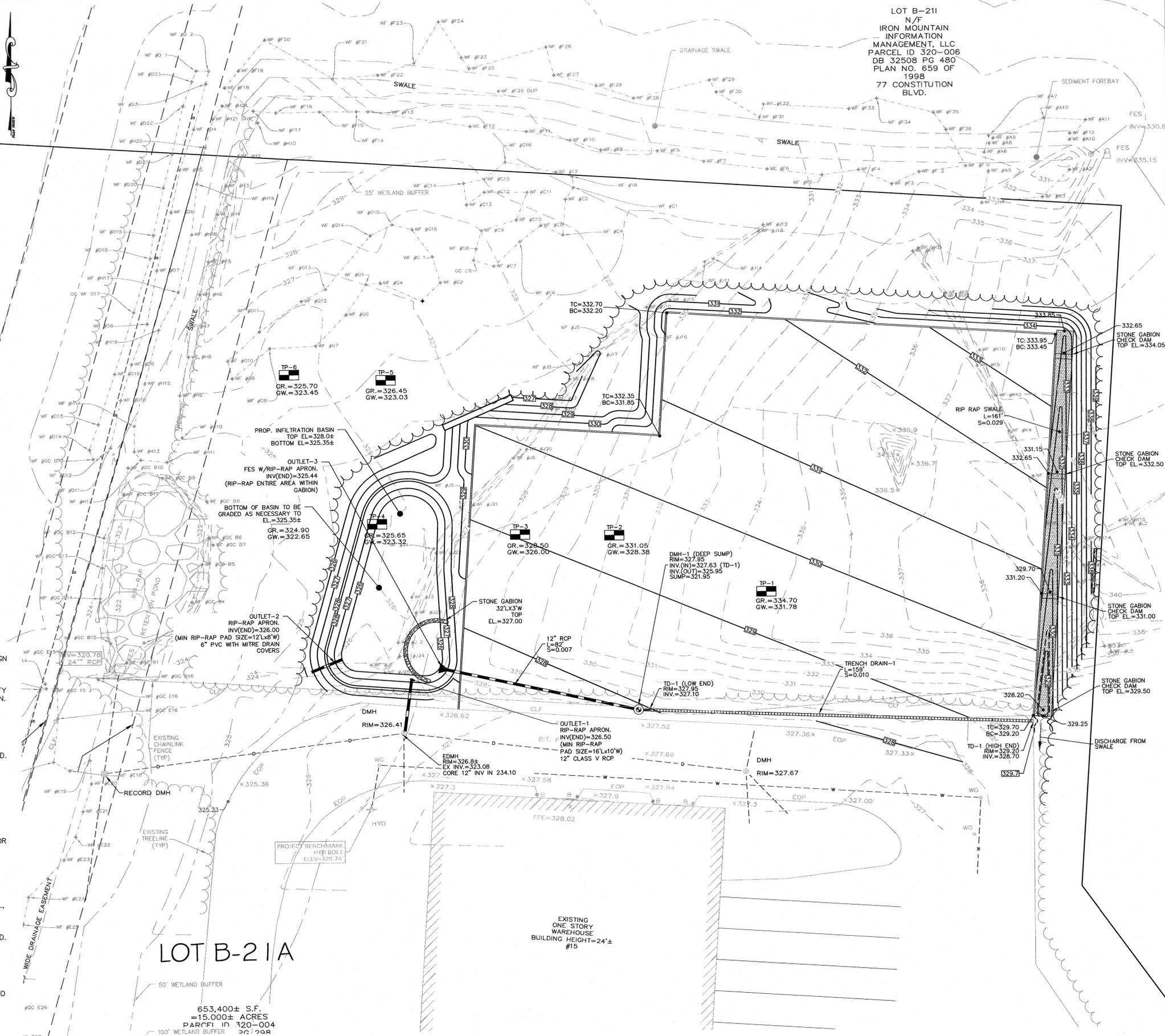
DEED REFERENCES

ATLANTIC OLIVER 15 LIBERTY WAY, LLC
DEED BOOK 39279 PAGE 278

PLAN REFERENCES

PLAN NO. 879 OF 1994
PLAN NO. 878 OF 1994
PLAN NO. 47 OF 1995

LOT B-211
N/F
IRON MOUNTAIN
MANAGEMENT, LLC
PARCEL ID 320-006
DB 32508 PG 480
PLAN NO. 659 OF
1998
77 CONSTITUTION
BLVD.



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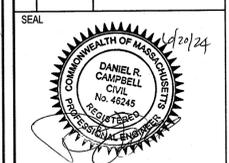
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LOT B-21A

653,400± S.F.
=15,000± ACRES
PARCEL ID 320-004

NO	DATE	REVISIONS
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3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
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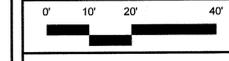
DATE: JANUARY 13, 2023
DRAWN: AH/DRC
SCALE: 1" = 20'

LIBERTY PARKING EXPANSION
MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS



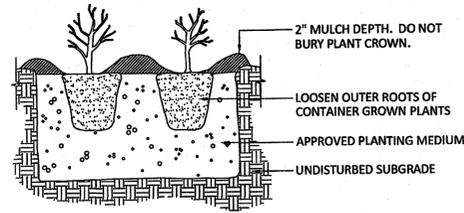
GRADING & DRAINAGE

C-3.0
SHEET 6 OF 11

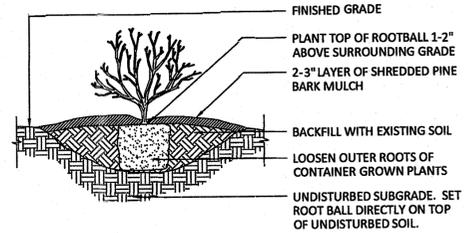


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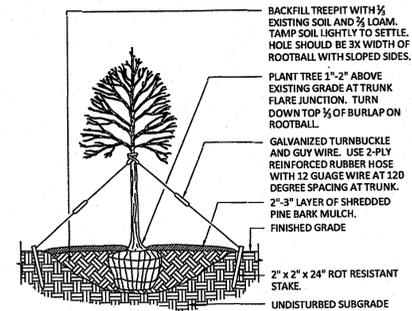
PLANT SCHEDULE				
SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE, COMMENTS
AG	AMELANCHER 'AUTUMN BRILLIANCE'	AUTUMN BRILLIANCE SERVICEBERRY	7	8-10' B+B M/S
BN	BETULA NIGRA 'HERITAGE'	HERITAGE RIVER BIRCH	3	12-14' B+B M/S
CA	CLETHREA ALNIFOLIA	SUMMERSWEET	8	#10
CI	CORNUS ALBA 'IVORY HALO'	RED-TWIG DOGWOOD	11	2-3' B+B
RS	AMELANCHER ALNIFOLIA 'REGENT'	REGENT SERVICEBERRY	12	#7
TM	TAXUS MED. 'DENSIFORMIS'	DENSIFORMIS YEW	10	18-24"
Vd	VIBURNUM DENTATUM	ARROWWOOD VIRBURNAM	14	2-3' B+B



PERENNIAL/GROUNDCOVER PLANTING
NOT TO SCALE



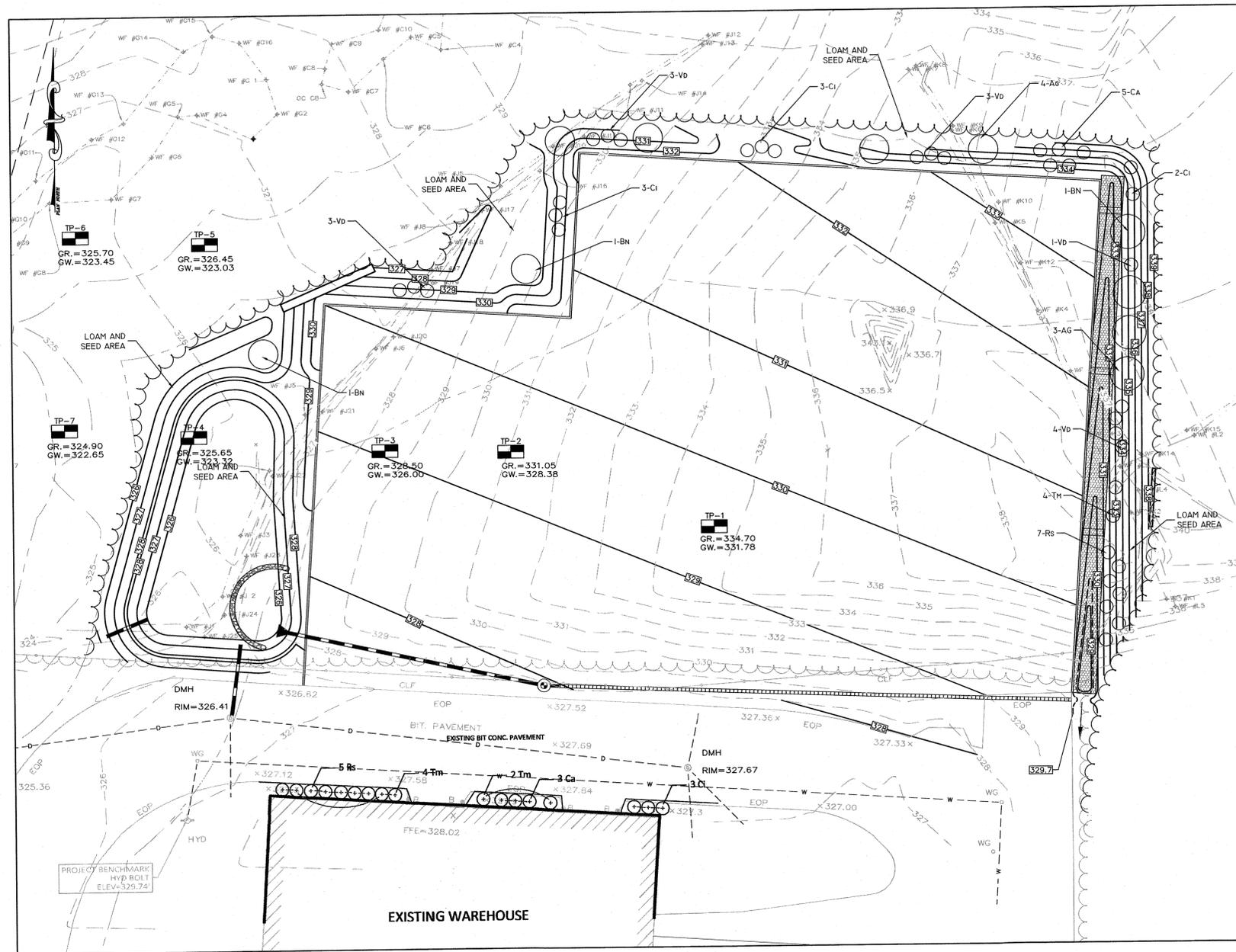
SHRUB PLANTING DETAIL
NOT TO SCALE



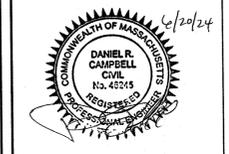
TREE PLANTING DETAIL
NOT TO SCALE

GENERAL PLANTING NOTES:

- ALL PLANTS SHALL BE THE HIGHEST QUALITY, HEAVY NURSERY-GROWN STOCK AND SIZED ACCORDING TO MASSACHUSETTS NURSERYMAN'S ASSOCIATION STANDARDS. NO SUBSTITUTIONS WILL BE PERMITTED WITHOUT THE PRIOR APPROVAL OF THE LANDSCAPE ARCHITECT OR PROJECT ENGINEER/WETLANDS SCIENTIST.
- TOPSOIL FOR PLANT BEDS AND PITS SHALL BE GOOD QUALITY SANDY LOAM DEVOID OF ROOTS, CLODS, STONES, RUBBISH, GLASS, BRICK, OR ASPHALT. SOIL SHOULD BE BETWEEN PH 6 AND 7, AND HAVE GOOD FERTILITY AND ORGANIC CONTENT.
- PLANT BEDS SHALL HAVE A MINIMUM SOIL DEPTH OF 10' UNLESS OTHERWISE SPECIFIED AND BE MULCHED WITH 2-3" OF FINELY SHREDDED PINE BARK MULCH. GROUNDCOVER AREA SHOULD HAVE A 1 1/2" - 2" MULCH DEPTH.
- ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE FULL YEAR FROM THE COMPLETION OF THE INSTALLATION.
- ALL SEEDS AND SODDED AREAS SHALL HAVE 6" OF SCREENED LOAM. SPREAD AND FINELY GRADED ACCORDING TO THE PLANS. ALL AREAS INDICATED OF THE DRAWINGS AND DISTURBED AREAS NOT OTHERWISE INDICATED, SHALL RECEIVE 6" OF LOAM PREVIOUSLY STRIPPED AND STOCKPILED WITH THE ADDITION OF 3" LOAM BORROW SHALL CONSIST OF FRIABLE SOIL TYPICAL OF LOCALLY CULTIVATED SOILS CONTAINING A MINIMUM OF 2% DECAYED ORGANIC MATTER, NO CLODS, STICKS AND DEBRIS, AND HAVE A PH OF 6 TO 7. TEST SOIL FOR ACIDITY, FERTILITY AND TEXTURE BY A REPUTABLE SOILS TESTING LAB. AMEND SOIL WITH LIME AND FERTILIZERS ACCORDINGLY. RAKE UNTIL SURFACE IS SMOOTH, FRIABLE, AND UNIFORM IN TEXTURE TO THE ELEVATIONS INDICATED ON THE DRAWINGS. SEED EVENLY AT A RATE OF 5 LBS. PER 1000 SQUARE FEET OR ACCORDING TO THE MANUFACTURER INSTRUCTIONS. LAY SOD WITH HAND-TIGHT JOINTS. IRRIGATE IMMEDIATELY AND AS NECESSARY TO PROVIDE ONE INCH OF WATER PER WEEK WHILE THE SEED GERMINATES AND SOD TAKES ROOT UNTIL THE GRASS IS THOROUGHLY ESTABLISHED.



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DRAWN: AH/DRC
SCALE: 1" = 20'

LIBERTY PARKING EXPANSION
MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS



LANDSCAPE PLAN

C.4.1
SHEET 7 OF 11



2081.00

ZONING DISTRICT

ZONED: INDUSTRIAL
USE: 3.10 WAREHOUSE, DISTRIBUTION FACILITY (EXISTING)

MINIMUM BUILDING SETBACKS

FRONT=40
FEET SIDE=30 FEET
REAR=30 FEET

DEED REFERENCES

ATLANTIC OLIVER 15 LIBERTY WAY, LLC
DEED BOOK 39279 PAGE 278

PLAN REFERENCES

PLAN NO. 879 OF 1994
PLAN NO. 878 OF 1994
PLAN NO. 47 OF 1995



EROSION CONTROL PLAN NOTES:

SILTATION CONTROL USING EROSION CONTROL FENCE WITH STRAW WATTLE, OR APPROVED EQUAL
SILT SOXX IS TO BE VISUALLY INSPECTED AFTER EVERY RAIN FALL AND REPAIRS MADE AS REQUIRED TO THE SILTATION CONTROL FENCE AND STRAW WATTLE AFTER EACH RAIN FALL. CLEANOUT OF ACCUMULATED SEDIMENT BEHIND THE WATTLE IS NECESSARY IF 1/2 OF THE ORIGINAL HEIGHT OF THE WATTLE APPEARS TO HAVE BEEN INUNDATED WITH SEDIMENT.

PRESERVE TOPSOIL

SITE OWNERS AND OPERATORS MUST PRESERVE EXISTING TOPSOIL ON THE CONSTRUCTION SITE TO THE MAXIMUM EXTENT FEASIBLE AND AS NECESSARY TO SUPPORT HEALTHY VEGETATION, PROMOTE SOIL STABILIZATION, AND INCREASE STORMWATER INFILTRATION RATES IN THE POST-CONSTRUCTION PHASE OF THE PROJECT.

STABILIZATION OF SOILS

UPON COMPLETION AND ACCEPTANCE OF SITE PREPARATION AND INITIAL INSTALLATION OF EROSION, RUNOFF, AND SEDIMENT CONTROLS AND TEMPORARY POLLUTION PREVENTION MEASURES, THE OPERATOR SHALL INITIATE APPROPRIATE TEMPORARY OR PERMANENT STABILIZATION PRACTICES DURING ALL PHASES OF CONSTRUCTION ON ALL DISTURBED AREAS AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS.

ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER FINAL SITE STABILIZATION. DISTURBED SOIL AREAS RESULTING FROM THE REMOVAL OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED WITHIN 30 DAYS OF REMOVAL.

ONLY AREAS THAT CAN BE REASONABLY EXPECTED TO HAVE ACTIVE CONSTRUCTION WORK BEING PERFORMED WITHIN 14 DAYS OF DISTURBANCE WILL BE CLEARED/GRUBBED AT ANY ONE TIME. IT IS NOT ACCEPTABLE TO GRUB AND STRIP TOP SOIL THE ENTIRE CONSTRUCTION SITE IF PORTIONS WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME. PROPER PHASING OF CLEARING AND GRUBBING ACTIVITIES SHALL INCLUDE TEMPORARY STABILIZATION TECHNIQUES FOR AREAS CLEARED AND GRUBBED THAT WILL NOT BE ACTIVE WITHIN THE 14-DAY TIME FRAME.

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STEEP SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON. THE CONTRACTOR SHALL INITIATE APPROPRIATE VEGETATIVE PRACTICES ON ALL DISTURBED AREAS IN AREAS OF STEEP SLOPES AS SOON AS POSSIBLE BUT NOT MORE THAN FOURTEEN (14) DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT AREA HAS TEMPORARILY OR PERMANENTLY CEASED, UNLESS THE ACTIVITY IS TO RESUME WITHIN TWENTY-ONE (21) DAYS. ONCE A STEEP SLOPE AREA HAS BEEN TEMPORARILY AND/OR FINAL SEEDED IT SHALL BE PROTECTED WITH 4" HIGH ORANGE CONSTRUCTION TO PREVENT FURTHER DISTURBANCE OF THE AREA.

THE TEMPORARY SEEDING DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:
TYPE % BY WEIGHT
ANNUAL RYE GRASS 40
PERENNIAL RYE GRASS 60

STORMWATER INLET PROTECTION

INLET PROTECTION - WILL BE UTILIZED TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. THESE MEASURES ARE USUALLY TEMPORARY AND ARE IMPLEMENTED BEFORE A SITE IS DISTURBED. ALL STORMWATER INLETS &/OR CATCH BASINS THAT ARE OPERATIONAL DURING CONSTRUCTION AND HAVE THE POTENTIAL TO RECEIVE SEDIMENT-LADEN STORMWATER FLOW FROM THE CONSTRUCTION SITE MUST BE PROTECTED USING CONTROL MEASURES OUTLINED IN THE STORMWATER POLLUTION PREVENTION PLAN. EROSION CONTROL FENCE WITH STRAW WATTLES ARE TO BE PLACED AT OR OPENING OF ALL ROUGH GRADED SEDIMENT FOREBAYS UNTIL THE FOREBAY AND BASIN HAS BEEN STABILIZED AND BROUGHT ON-LINE.

MAINTENANCE - THE OPERATOR MUST CLEAN, OR REMOVE AND REPLACE THE INLET PROTECTION MEASURES AS SEDIMENT ACCUMULATES, THE FILTER BECOMES CLOGGED, AND/OR AS PERFORMANCE IS COMPROMISED. ACCUMULATED SEDIMENT ADJACENT TO THE INLET PROTECTION MEASURES SHOULD BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH IT IS FOUND OR BY THE END OF THE FOLLOWING WORK DAY IF REMOVAL BY THE SAME WORK DAY IS NOT FEASIBLE.

INFILTRATION BASINS - ALL AREAS CONTAINING INFILTRATION BASINS (ABOVE OR BELOW GROUND) SHALL BE PROTECTED THROUGHOUT CONSTRUCTION. THESE AREAS ARE NOT TO BE USED FOR MATERIAL STOCKPILES OR FOR PARKING EQUIPMENT. INFILTRATION BASINS ARE TO BE ROUGH GRADED AND PROTECTED UNTIL STABILIZED AND BROUGHT ON-LINE FOR STORMWATER MANAGEMENT OF THE STABILIZED SITE.

CONSTRUCTION ENTRANCES

CONSTRUCTION ENTRANCES SHALL BE ESTABLISHED PRIOR TO REMOVAL OF EXISTING DRIVEWAY PAVEMENT TO BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF SEDIMENT TRACKING OFF THE PROJECT. ANY CONSTRUCTION SITE ACCESS POINT MUST EMPLOY THE CONTROL MEASURES ON THE APPROVED SITE PLANS AND IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN. CONSTRUCTION ENTRANCES SHALL BE USED IN CONJUNCTION WITH THE STABILIZATION OF CONSTRUCTION ROADS TO REDUCE THE AMOUNT OF MUD PICKED UP BY CONSTRUCTION VEHICLES. ALL CONSTRUCTION ACCESS ROADS SHALL BE CONSTRUCTED PRIOR TO ANY ROADWAY ACCEPTING CONSTRUCTION TRAFFIC.

THE SITE OWNER AND OPERATOR MUST RESTRICT VEHICLE USE TO PROPERLY DESIGNATED EXIT POINTS, USE PROPERLY DESIGNED AND CONSTRUCTED CONSTRUCTION ENTRANCES AT ALL POINTS THAT EXIT ONTO PAVED ROADS SO THAT SEDIMENT REMOVAL OCCURS PRIOR TO VEHICLE EXIT. WHEN AND WHERE NECESSARY, USE ADDITIONAL CONTROLS TO REMOVE SEDIMENT FROM VEHICLE TIRES PRIOR TO EXIT (I.E. WHEEL WASHING RACKS, RUMBLE STRIPS, AND RATTLE PLATES). WHERE SEDIMENT HAS BEEN TRACKED OUT FROM THE CONSTRUCTION SITE ONTO THE SURFACE OF OFFSET STREETS, OTHER PAVED AREAS, AND SIDEWALKS, THE DEPOSITED SEDIMENT MUST BE REMOVED BY THE END OF THE SAME WORK DAY IN WHICH THE TRACK OUT OCCURS. TRACK-OUT MUST BE REMOVED BY SWEEPING, SHOVELING, OR VACUUMING THESE SURFACES, OR BY USING OTHER SIMILARLY EFFECTIVE MEANS OF SEDIMENT REMOVAL.

STOCKPILE CONTAINMENT

SHALL BE USED ON-SITE TO MINIMIZE OR ELIMINATE THE DISCHARGE OF SOIL, TOPSOIL, BASE MATERIAL OR RUBBLE, FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. ALL STOCKPILES MUST BE LOCATED WITHIN THE LIMIT OF DISTURBANCE, PROTECTED FROM RUN-ON WITH THE USE OF TEMPORARY SEDIMENT BARRIERS AND PROVIDED WITH COVER OR STABILIZATION TO AVOID CONTACT WITH PRECIPITATION AND WIND WHERE AND WHEN PRACTICAL. STOCK PILE MANAGEMENT CONSISTS OF PROCEDURES AND PRACTICES DESIGNED TO MINIMIZE OR ELIMINATE THE DISCHARGE OF STOCKPILED MATERIAL (SOIL, TOPSOIL, BASE MATERIAL, RUBBLE) FROM ENTERING DRAINAGE SYSTEMS OR SURFACE WATERS. FOR ANY STOCKPILES OR LAND CLEARING DEBRIS COMPOSED, IN WHOLE OR IN PART, OF SEDIMENT OR SOIL, YOU MUST COMPLY WITH THE FOLLOWING REQUIREMENTS - LOCATE PILES WITHIN THE DESIGNATED LIMITS OF DISTURBANCE OUTSIDE OF THE 100-FOOT BUFFER ZONE, PROTECT FROM CONTACT WITH STORMWATER (INCLUDING RUN-ON) USING A TEMPORARY PERIMETER SEDIMENT BARRIER; WHERE PRACTICABLE, PROVIDE COVER OR APPROPRIATE TEMPORARY VEGETATIVE OR STRUCTURAL STABILIZATION TO AVOID DIRECT CONTACT WITH PRECIPITATION OR TO MINIMIZE SEDIMENT DISCHARGE; NEVER HOSE DOWN OR SWEEP SOIL OR SEDIMENT ACCUMULATED ON PAVEMENT OR OTHER IMPERVIOUS SURFACES INTO ANY STORMWATER CONVEYANCE, STORM DRAIN INLET, OR SURFACE WATER; TO THE MAXIMUM EXTENT PRACTICABLE, CONTAIN AND SECURELY PROTECT FROM WIND.

GENERAL CONSTRUCTION SEQUENCING

- 1. INSTALL EROSION AND SEDIMENT CONTROLS;
- 2. CLEAR, GRUB AND ROUGH GRADE AREAS SHOWN TO BE REGRADED;
- 3. DEMO EXISTING FEATURES IN WORK AREA NOT SHOWN TO BE SAVED AND CUT AND CAP UTILITIES AS NEEDED;
- 4. INSTALL STORMWATER MANAGEMENT SYSTEM AND SITE UTILITIES;
- 5. INSTALL BINDER COAT PAVING;
- 6. INSTALL LANDSCAPING;
- 7. FINE GRADE SITE AND LODAM AND SEED ALL DISTURBED AREAS;
- 8. INSTALL TOP COAT PAVEMENT;
- 9. PROJECT CLOSE OUT.

PLAN NOTES:

- 1. EXISTING CONDITIONS WERE OBTAINED FROM FIELD SURVEY PREPARED BY LEVEL DESIGN GROUP, LLC BETWEEN NOVEMBER 2, 2022 AND NOVEMBER 15, 2022. THERE ARE NO RESOURCE AREAS, IN ACCORDANCE WITH 310 CMR 10.00 WITHIN 100' OF PROPOSED SYSTEM.
- 2. THE LOCATION OF EXISTING UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. NOTIFY "DIG-SAFE" AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY SITE DEMOLITION OR EXCAVATION.
- 3. SEE STORMWATER POLLUTION PREVENTION PLAN PREPARED FOR CONSTRUCTION ACTIVITIES AT 15 LIBERTY WAY FRANKLIN, MA 02038, FOR ADDITIONAL EROSION AND SEDIMENT CONTROL PRACTICES AND PROCEDURES.

NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/02/2023	REVIEW COMMENTS
3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	06/20/2024	REVISE LAYOUT

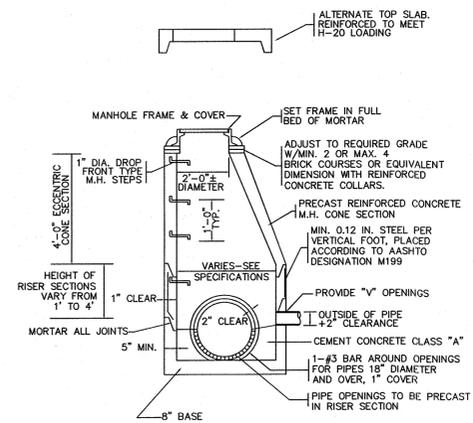
SEAL
DANIEL R. CAMPBELL
CIVIL
No. 46245
REGISTERED PROFESSIONAL ENGINEER
STATE OF MASSACHUSETTS

DATE: JANUARY 13, 2023
DRAWN: AH/DRC
SCALE: 1"=20'

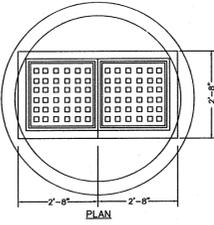
LIBERTY PARKING EXPANSION
MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS

LEVEL DESIGN GROUP
Civil Engineers & Land Surveyors
249 SOUTH STREET, UNIT 1
PLAINVILLE, MA 02762
TEL: (508) 695-2221 FAX: (508) 695-2219

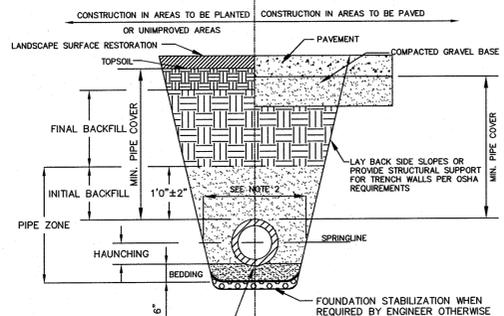
EROSION CONTROL
C-3.2
SHEET 8 OF 11
0' 10' 20' 40'
2081.00



PRECAST CONCRETE DRAIN MANHOLE
NOT TO SCALE



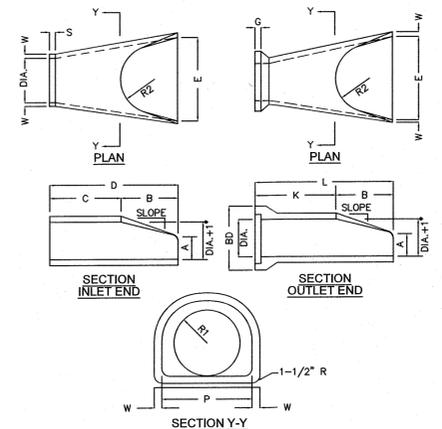
PRECAST CONCRETE DOUBLE CATCH BASIN WITH GAS AND OIL SEPARATOR
NOT TO SCALE



UTILITY TRENCH
NOT TO SCALE

FOUNDATION, BEDDING AND BACKFILL MATERIALS			
PIPE MATERIAL	HDP, PVC	RC, DI	RC, DI
FOUNDATION STABILIZATION	NOTE [6]	[6]	[6]
ROOFING	[1]	[1]	[1]
HAUNCHING	[1]	[1]	[1]
INITIAL BACKFILL	[4]	[4]	[4]
FINAL BACKFILL	[4]	[4]	[4]
PIPE COVER	[5]	[5]	[5]

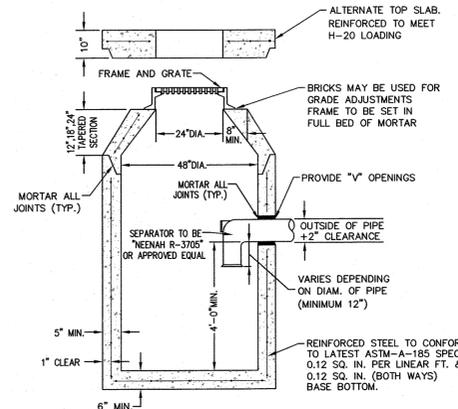
- SHAPE BEDDING BY HAND TO FIT BOTTOM OF PIPE. INSTALL PIPE ON STABLE BEDDING WITH UNIFORM BEARING UNDER FULL LENGTH OF PIPE BARREL.
- FOUNDATION STABILIZATION WHEN REQUIRED BY ENGINEER OTHERWISE PLACE BEDDING ON UNDISTURBED NATURAL SOIL.
- NOTES:
- PLACE 3/4" MINUS GRADED GRANULAR BACKFILL AT OPTIMUM MOISTURE IN HORIZONTAL 8" DEEP LOOSE LAYERS, COMPACT TO 95% PER ASTM D-1557. IN PAVED AREAS, OBTAIN ENGINEER APPROVAL OF ON-SITE EXCAVATED MATERIALS FOR USE AS FINAL BACKFILL.
 - MINIMUM COVER OVER TOP OF PIPE
- | PIPE I.D. | WIDTH |
|------------------|------------|
| LESS THAN 21" | O.D. + 12" |
| 21" TO 42" | O.D. + 24" |
| GREATER THAN 42" | O.D. + 30" |
- INSTALL PIPE IN CENTER OF TRENCH.
 - IN PLANTED OR UNIMPROVED AREAS, USE ON-SITE EXCAVATED MATERIAL FOR FINAL BACKFILL. COMPACT TO 95% PER ASTM D-1557. IN PAVED AREAS, OBTAIN ENGINEER APPROVAL OF ON-SITE EXCAVATED MATERIALS FOR USE AS FINAL BACKFILL.
 - MINIMUM COVER OVER TOP OF PIPE
- | PIPE MATERIAL | HDP, PVC | RC, DI |
|---------------|----------|---------|
| WATER | 5' - 0" | 5' - 0" |
| SEWER | 4' - 0" | 4' - 0" |
| DRAIN | 2' - 0" | 1' - 6" |
- [6] FOR FOUNDATION STABILIZATION, USE 2" MINUS CRUSHED STONE



DIA.	W	A	B	C	D	E	BD
12"	2"	4"	2'-0"	4'-0 7/8"	6'-1 3/8"	2'-0"	20"
15"	2-1/4"	6"	2'-3"	3'-10"	6'-1 1/2"	2'-6"	24"
18"	2-1/2"	9"	2'-3"	3'-10"	6'-1"	3'-0"	28"
21"	2-3/4"	9"	2'-11"	3'-2"	6'-1"	3'-6"	32"
24"	3"	9-1/2"	3'-7 1/2"	3'-2"	6'-1"	4'-0"	36"

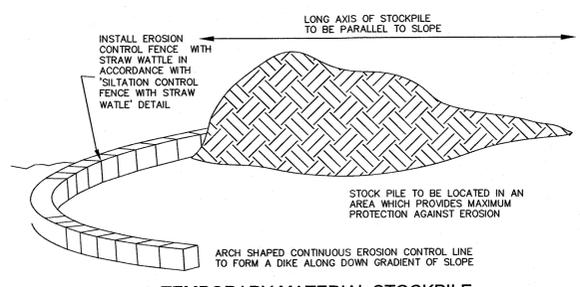
DIA.	K	L	P	DIA. R1	R2	S	G	SLOPE
12"	4'-6 1/8"	6'-6 1/8"	19 5/16"	10 1/8"	9" 4"	2 1/2"	3:1	
15"	4'-3 11/16"	6'-6 11/16"	24 5/16"	16"	12 1/2"	11" 4"	2 1/2"	3:1
18"	4'-3 7/8"	6'-6 7/8"	29"	19"	15 1/2"	12" 4"	2 3/4"	3:1
21"	3'-8 5/16"	6'-7 5/16"	31 5/8"	22"	16 1/8"	13" 4"	2 3/4"	3:1
24"	3'-0 1/2"	6'-8"	33 3/16"	25"	16 13/16"	14" 4"	3"	3:1

REINFORCED CONCRETE PIPE FLARED END
NOT TO SCALE

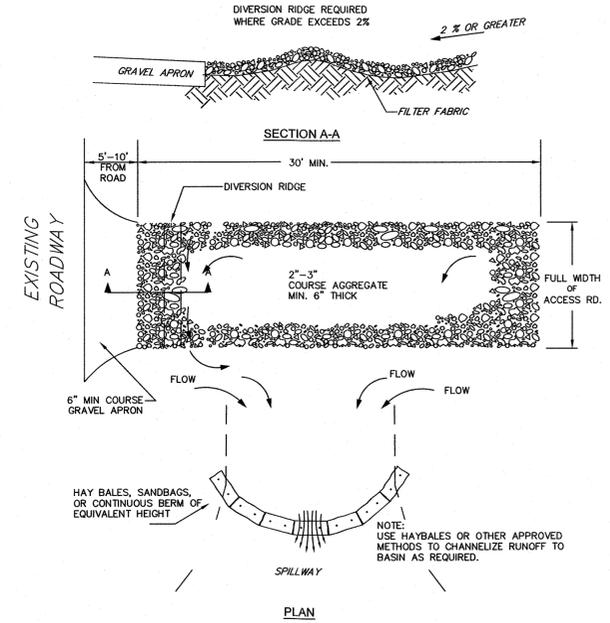


- NOTES:
- CONCRETE TO BE 4,000 PSI MIN. PER ASTM C-478(6.1).
 - REINFORCING TO MEET OR EXCEED H-20 LOADING REQUIREMENTS.

PRECAST CONCRETE CATCH BASIN WITH GAS AND OIL SEPARATOR
NOT TO SCALE

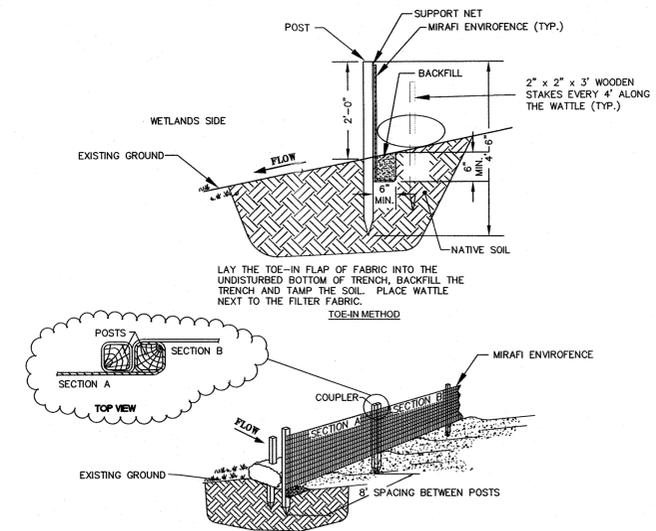


TEMPORARY MATERIAL STOCKPILE
NOT TO SCALE

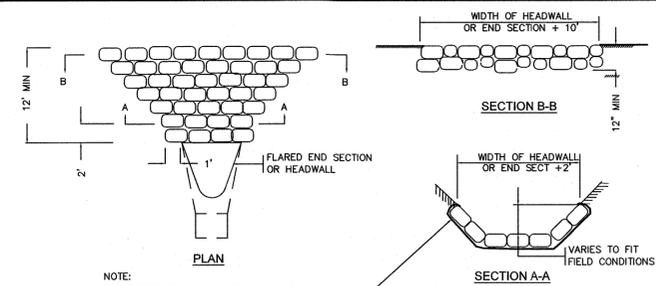


- NOTES:
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITIONS THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
 - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
 - WHEN WASHING IS REQUIRED IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS TO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY CONSTRUCTION ENTRANCE/EXIT DETAIL
NOT TO SCALE

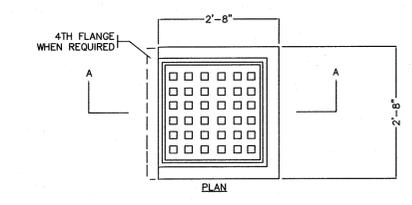


EROSION CONTROL FENCE WITH STRAW WATTLE
NOT TO SCALE



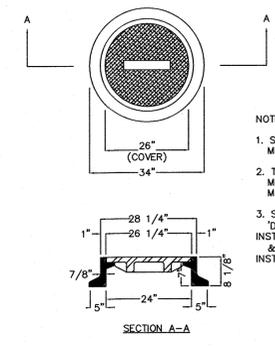
- NOTE:
- 50% OF RIP-RAP SHALL BE A MINIMUM OF 15 LBS. REMAINING RIP-RAP SHALL BE OF MISC. SIZE BUT NO SMALLER THAN 3 LB.

RIP RAP APRON AT PIPE ENDS
NOT TO SCALE



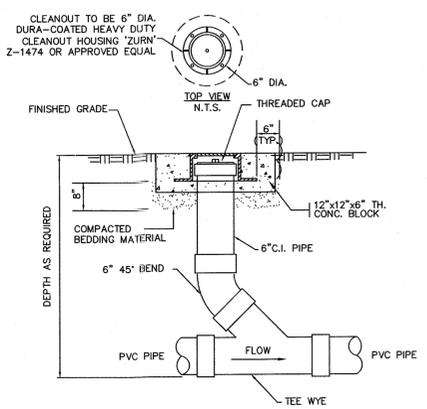
- NOTES:
- MIN. FRAME WEIGHT 295 LBS
 - FLANGE 265 LBS
 - MATERIAL-CAST IRON
 - MIN GRATE WEIGHT 200 LBS

STANDARD CATCH BASIN FRAME & GRATE
NOT TO SCALE

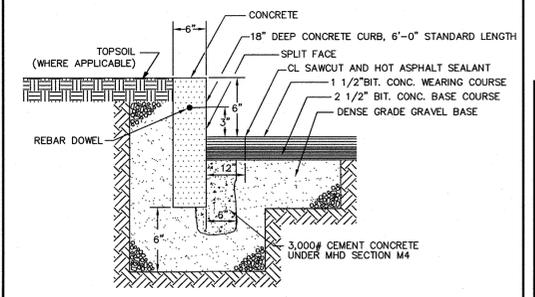


- NOTES:
- STANDARD COVER MIN. WEIGHT 200 LBS.
 - TYPE-A FRAME MIN. WEIGHT 265 LBS. MATERIAL-CAST IRON
 - STAMPED TO READ "DRAIN" FOR DRAIN MANHOLE INSTALLATION & "SEWER" FOR SEWER MANHOLE INSTALLATION

STANDARD MANHOLE FRAME & COVER
NOT TO SCALE

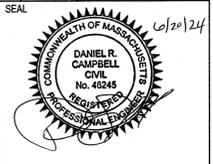


CLEANOUT AT GRADE
NOT TO SCALE



VERTICAL REINFORCED CONCRETE CURB
NOT TO SCALE

NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/22/2023	REVIEW COMMENTS
3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	06/20/2024	REVISE LAYOUT



DATE: JANUARY 13, 2023
DRAWN: AH/DRC
SCALE: AS NOTED

LIBERTY PARKING EXPANSION

MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS

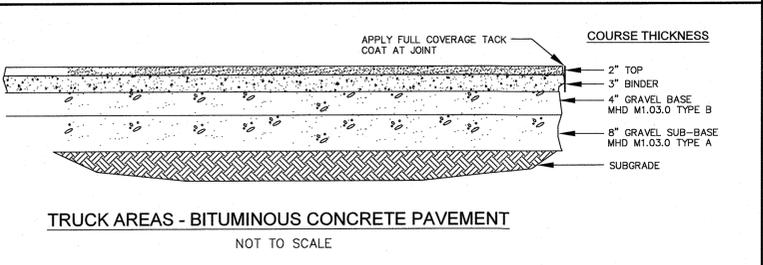
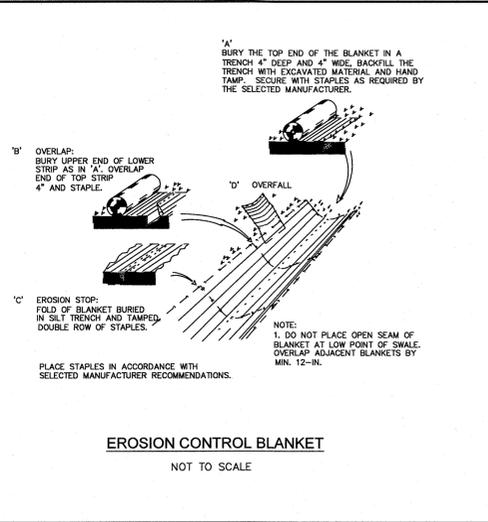
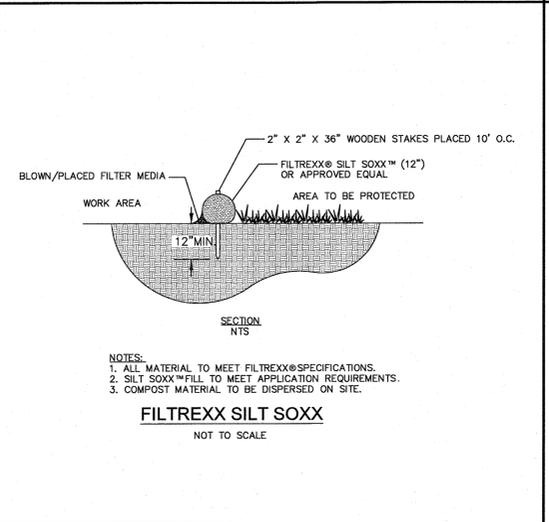
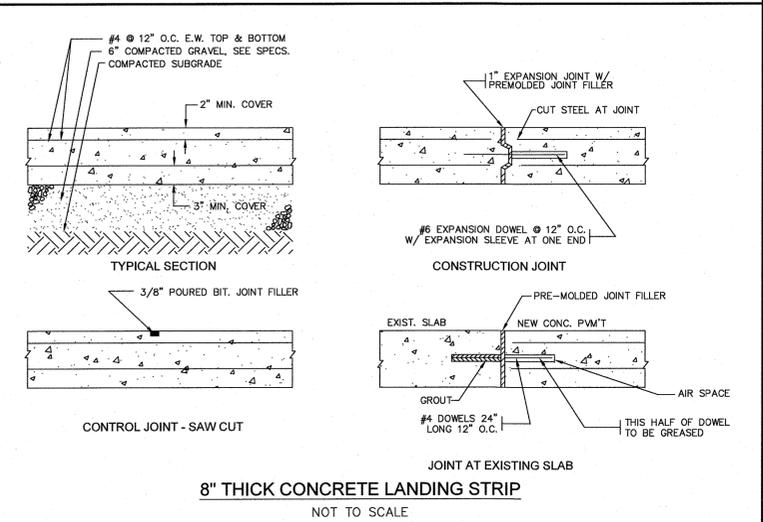
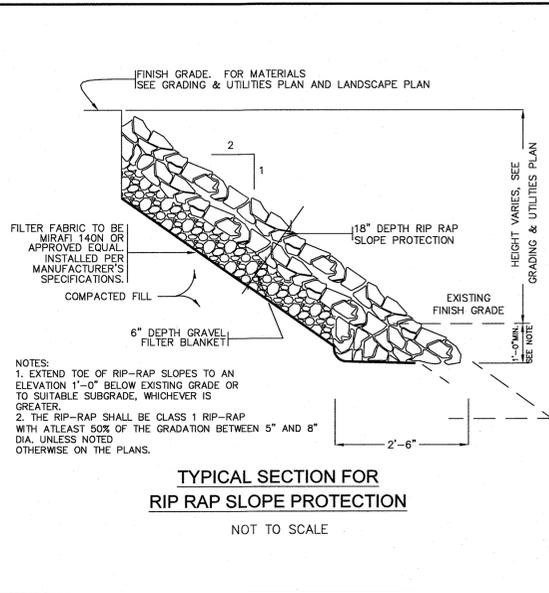
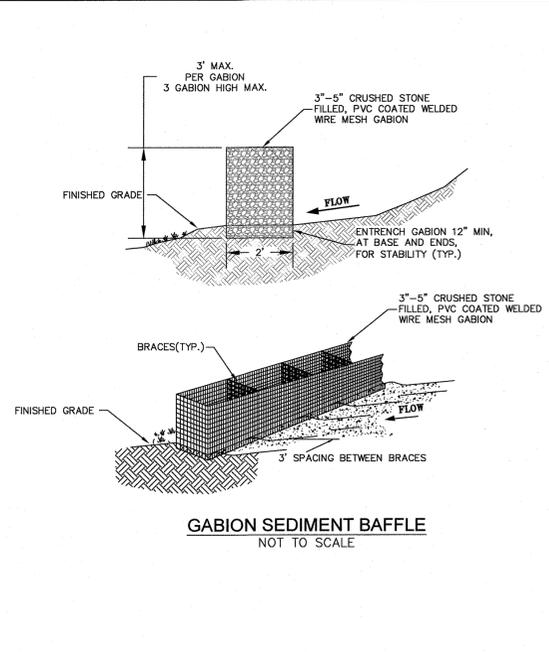
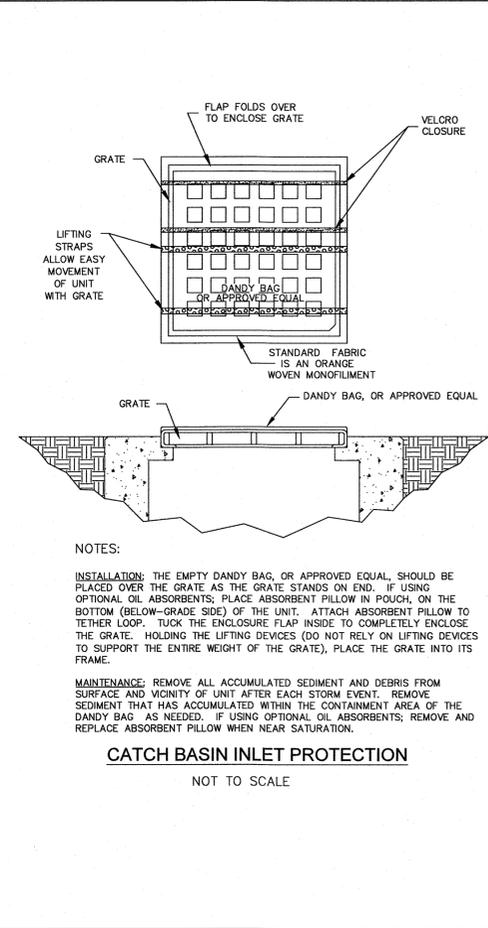
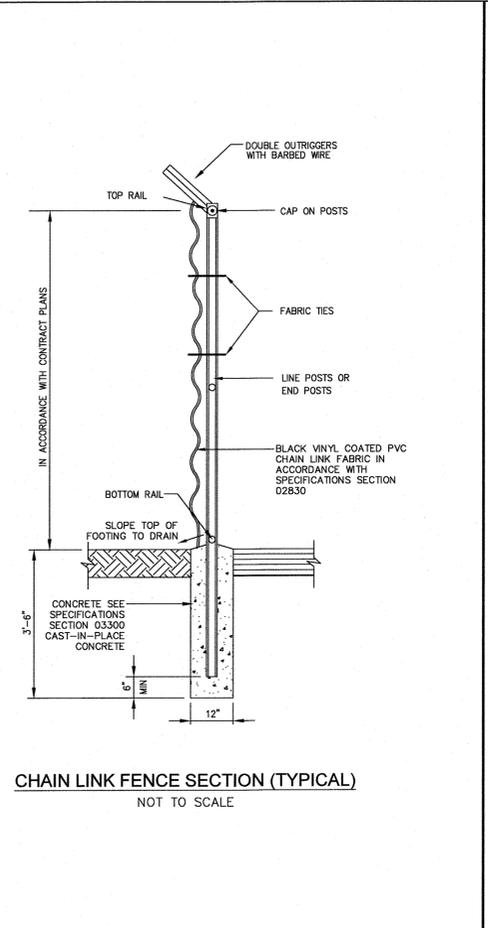
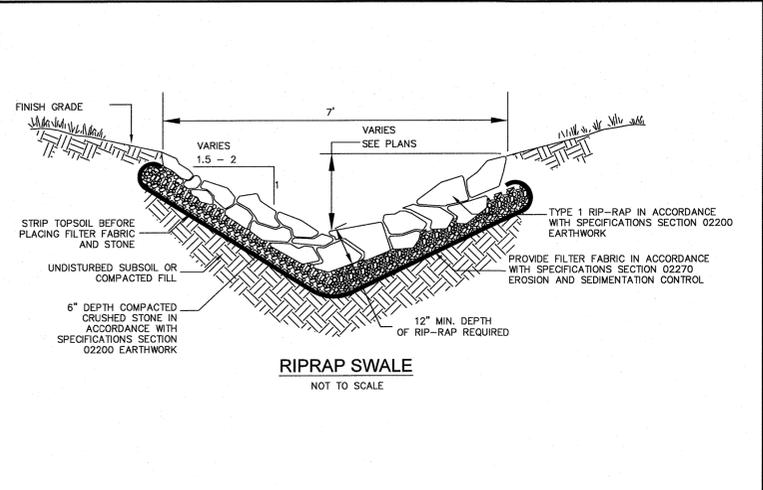
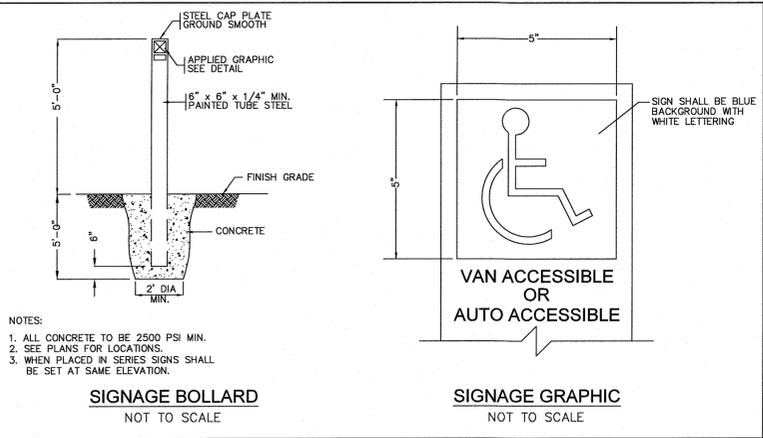


TYPICAL DETAILS

C-4.0

SHEET 9 OF 11

2081.00



NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/22/2023	REVIEW COMMENTS
3	03/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	08/20/2024	REVISE LAYOUT

DATE: JANUARY 13, 2023
DRAWN: AH / DRC
SCALE: AS NOTED

LIBERTY PARKING EXPANSION

MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS

LEVEL DESIGN GROUP
Civil Engineers & Land Surveyors
249 SOUTH STREET UNIT 1
PLAINVILLE, MA 02762
TEL. (508) 695-2221 FAX. (508) 695-2219

TYPICAL DETAILS

C-4.1
SHEET 10 OF 11

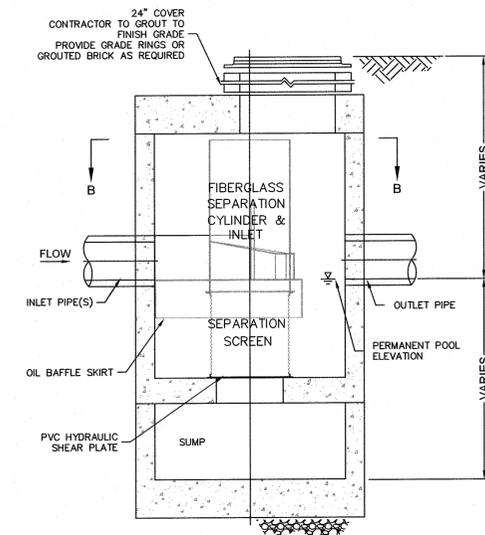
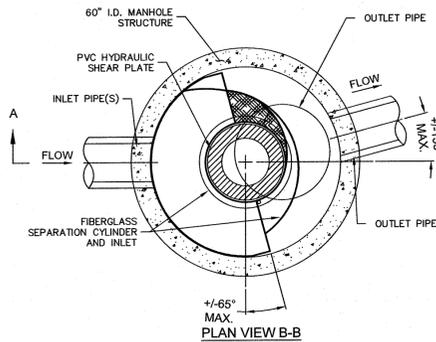
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GENERAL NOTES

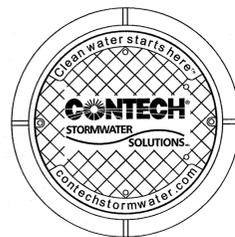
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. CONTRACTOR SHALL REQUEST SHOP DRAWINGS OF EACH INDIVIDUAL CDS STORMWATER TREATMENT UNIT AND SHALL SUBMIT THEM FOR REVIEW AND APPROVAL TO THE DESIGN ENGINEER PRIOR TO UNITS BEING ORDERED OR ENTERING PRODUCTION.
3. DIMENSIONS MARKED WITH () ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
4. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH CONSTRUCTION PRODUCTS REPRESENTATIVE. www.contech.com
5. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
6. STRUCTURE SHALL MEET AASHTO H20 AND CASTINGS SHALL MEET AASHTO M306 LOAD RATING, ASSUMING GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION.
7. PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.

INSTALLATION NOTES

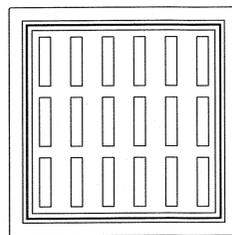
1. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
2. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
3. CONTRACTOR TO ADD JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS, AND ASSEMBLE STRUCTURE.
4. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT PIPES. MATCH PIPE INVERTS WITH ELEVATIONS SHOWN.
5. 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.



STORM WATER TREATMENT UNIT

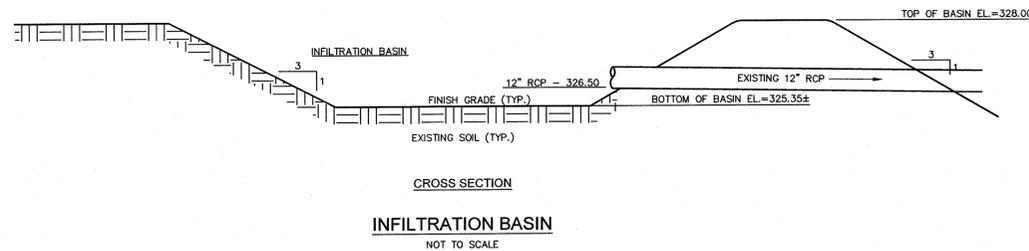


FRAME AND COVER
(DIAMETER VARIES)
N.T.S.

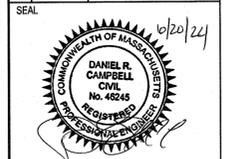


FRAME AND GRATE
(24" SQUARE)
N.T.S.

CDS STORMWATER TREATMENT UNITS
NOT TO SCALE



NO	DATE	REVISIONS
1	10/17/2023	RESOURCE AREA FLAGS
2	11/22/2023	REVIEW COMMENTS
3	02/01/2024	REVIEW COMMENTS
4	03/19/2024	REVISE LAYOUT
5	06/20/2024	REVISE LAYOUT



DATE: JANUARY 13, 2023
DRAWN: AH/DRC
SCALE: AS NOTED

LIBERTY PARKING EXPANSION
MAP SHEET 320, PARCEL 004
15 LIBERTY WAY
FRANKLIN, MASSACHUSETTS



TYPICAL DETAILS

C-4.2

SHEET 11 OF 11

2081.00