

## NOTES:

- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS PREPARED BY OTHERS FOR ALL PROPOSED ADDITION DIMENSIONS, SPECIFICATIONS, CONSTRUCTION NOTES AND DETAILS. CONTRACTOR SHALL CONFIRM FINISHED FLOOR AND TOP OF FOUNDATION ELEVATIONS WITH OWNER PRIOR TO CONSTRUCTION.
- PROPOSED CEMENT CONCRETE STEPS AND LANDING SHALL BE PROVIDED WITH HANDRAILS. HANDRAILS SHALL CONFORM TO THE MOST CURRENT EDITIONS OF THE MASSACHUSETTS STATE BUILDING CODE AND ADA RULES & REGULATIONS. FINAL DESIGN BY OTHERS.
- THE PROPOSED METAL GUARDRAIL SHALL MATCH THE EXISTING METAL GUARDRAIL CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER.
- CONTRACTOR TO CONNECT PROPOSED ADDITION INTERIOR ROOF DRAIN PIPING TO THE EXISTING BUILDING INTERIOR ROOF DRAIN PIPING. SEE PLANS BY OTHERS FOR COMPLETE DETAILS, INVERTS AND LOCATIONS. CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR. ALL MATERIALS AND INSTALLATION METHODS SHALL CONFORM TO THE MASSACHUSETTS STATE PLUMBING CODE (248 CMR 10.00).
- CONTRACTOR SHALL ADJUST WATER GATE VALVE FRAME AND COVER TO GRADE AS NEEDED. PROVIDE A 12"x12" CEMENT CONCRETE COLLAR AROUND FRAME TO BOTTOM OF THE BINDER COURSE.
- REMOVE EXISTING RIP RAP AND SEDIMENT AS SHOWN. REPLACE WITH A 12" LAYER OF MODIFIED ROCKFILL PLACED OVER FILTER FABRIC. MAINTAIN EXISTING SIDE SLOPES AND MATCH INTO EXISTING RIP RAP SLOPE. ALL RIP RAP AND SEDIMENT REMOVED SHALL BE DISPOSED OF OFF SITE.
- SITE CONTRACTOR TO EXCAVATE WITH CAUTION AROUND THE EXISTING FIBER OPTIC CONDUIT ENCASED IN CEMENT CONCRETE DUCT BANK. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY PRIOR TO CONSTRUCTION. REFER TO FOUNDATION PLANS BY OTHERS FOR ALL DETAILS REGARDING THE EXISTING FIBER OPTIC CONDUIT ENCASED IN CEMENT CONCRETE DUCT BANK WITHIN THE LIMITS OF THE PROPOSED ADDITION. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION.
- CONTRACTOR SHALL SIZE, PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK. CONTRACTOR SHALL COORDINATE WITH OWNER ON DEWATERING EQUIPMENT LOCATION PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SIZE, PROVIDE AND MAINTAIN A VINYL CONCRETE WASHOUT CONTAINER. FINAL WASHOUT LOCATION SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE ALL VINYL CONCRETE WASHOUT DETAILS AND LOCATION WITH OWNER.
- 10. RE-GRADE EXISTING SWALE TO MAINTAIN EXISTING DRAINAGE FLOW, BASE WIDTH TO BE 2.5' MINIMUM. SIDE SLOPES SHALL BE 2:1 MINIMUM AND PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SIDE SLOPES WITH RIP RAP SHALL MATCH INTO EXISTING SLOPES, SEE NOTE 6 FOR RIP RAP INSTALLATION.

EX. CEM.

84x9 -

EX. CEM. CONC.

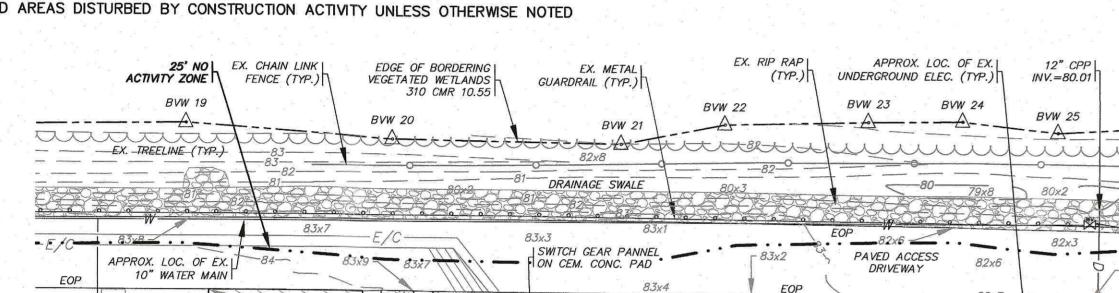
SIDEWALK

F.F.E.=84.9±

CONC. RAMP

F.F.E. = 85.0± -

11. LOAM AND SEED ALL DISTURBED AREAS DISTURBED BY CONSTRUCTION ACTIVITY UNLESS OTHERWISE NOTED



EX. ELEC.

METER BOX

- 83x7

EX. MAIN/COGEN 52GT

BREAKERS & CONTROLS

EX. BUILDING "BALL PLANT III"

ON CEM. CONC. PAD

IEX. CEM. CONC.

IEX. 2" CONDUIT

PAD (TYP.)

## ROUTINE SITE MAINTENANCE:

PARKING LOT SWEEPING IS AN EFFECTIVE NONSTRUCTURAL SOURCE CONTROL THAT WILL REMOVE SEDIMENT FROM PAVED SURFACES. PARKING LOT SWEEPING SHOULD BE DONE BY THE USE OF A HIGH EFFICIENCY VACUUM SWEEPER OR REGENERATIVE AIR SWEEPER. PARKING LOT SWEEPING SHALL BE DONE TWICE PER YEAR. WHEN PRACTICAL AND AS WEATHER PERMITS, ACCUMULATED SEDIMENTS SHOULD BE SWEPT AND REMOVED ON AN AS NEEDED BASIS DURING THE MONTHS OF JANUARY THROUGH MARCH. ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS AND SEDIMENTS MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS APPROVED BY MASSDEP (SEE POLICY # BAW-18-001: REUSE & DISPOSAL OF STREET SWEEPINGS). MAINTENANCE OF VEGETATED BUFFER WILL OCCUR WEEKLY IN THE MONTHS OF MAY THROUGH NOVEMBER.

## **OPERATION AND MAINTENANCE:**

ONCE ACCEPTED AS BUILT, THE OWNER SHALL PERFORM ROUTINE MAINTENANCE OF THE STORMWATER MANAGEMENT SYSTEM. PRIOR TO ACCEPTANCE OF THE PROJECT BY THE OWNER, ALL CATCH BASINS SHALL BE CLEANED, PARKING LOT SWEPT, AND ALL ACCUMULATED SEDIMENT REMOVED. PARKING LOT SHALL BE SWEPT AND CATCH BASINS CLEANED IN THE SPRING AND THE FALL OF EACH YEAR. CONSTRUCTION BMP'S INCLUDE PLACEMENTS OF SILT SACK SEDIMENT CONTROL DEVICES IN EACH CATCH BASIN DURING CONSTRUCTION, THE PLACEMENT, MAINTENANCE AND MONITORING OF EROSION CONTROL BARRIERS THROUGHOUT THE DURATION OF THE PROJECT AND UNTIL VEGETATION IS ESTABLISHED ON THE DISTURBED SURFACE. ALL SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

## MAINTENANCE OF TRENCH DRAIN:

TRENCH DRAINS SHOULD BE CLEANED A MINIMUM OF FOUR TIMES PER YEAR AND INSPECTED MONTHLY. ALL SEDIMENTS AND HYDROCARBONS SHOULD BE PROPERLY HANDLED AND DISPOSED, IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS.

## RAINSTORE3 UNDERGROUND INFILTRATION SYSTEM:

RAINSTORE3 UNITS SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT IN THE FIRST FEW MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. THEREAFTER, THE RAINSTORE3 UNITS SHALL BE INSPECTED AT LEAST ONCE PER YEAR. WATER DEPTH IN THE RAINSTORE3 UNITS SHOULD BE OBSERVED AND MEASURED AT 0, 24, AND 48-HOUR INTERVALALS AFTER A MAJOR STORM EVENT AT LEAST ONCE PER YEAR. CLEARANCE RATES ARE CALCULATED BY DIVIDING THE DROP IN THE WATER LEVEL (INCHES) BY THE ELAPSED TIME (HOUR). A COMPARISON OF CLEARANCE RATE MEASUREMENTS TAKEN OVER THE YEARS PROVIDE A USEFUL TOOL TRACKING ANY CLOGGING PROBLÈMS WITH THE UNDERGROUND INFILTRATION SYSTEM.

## MAINTENANCE OF DRAINAGE SWALES:

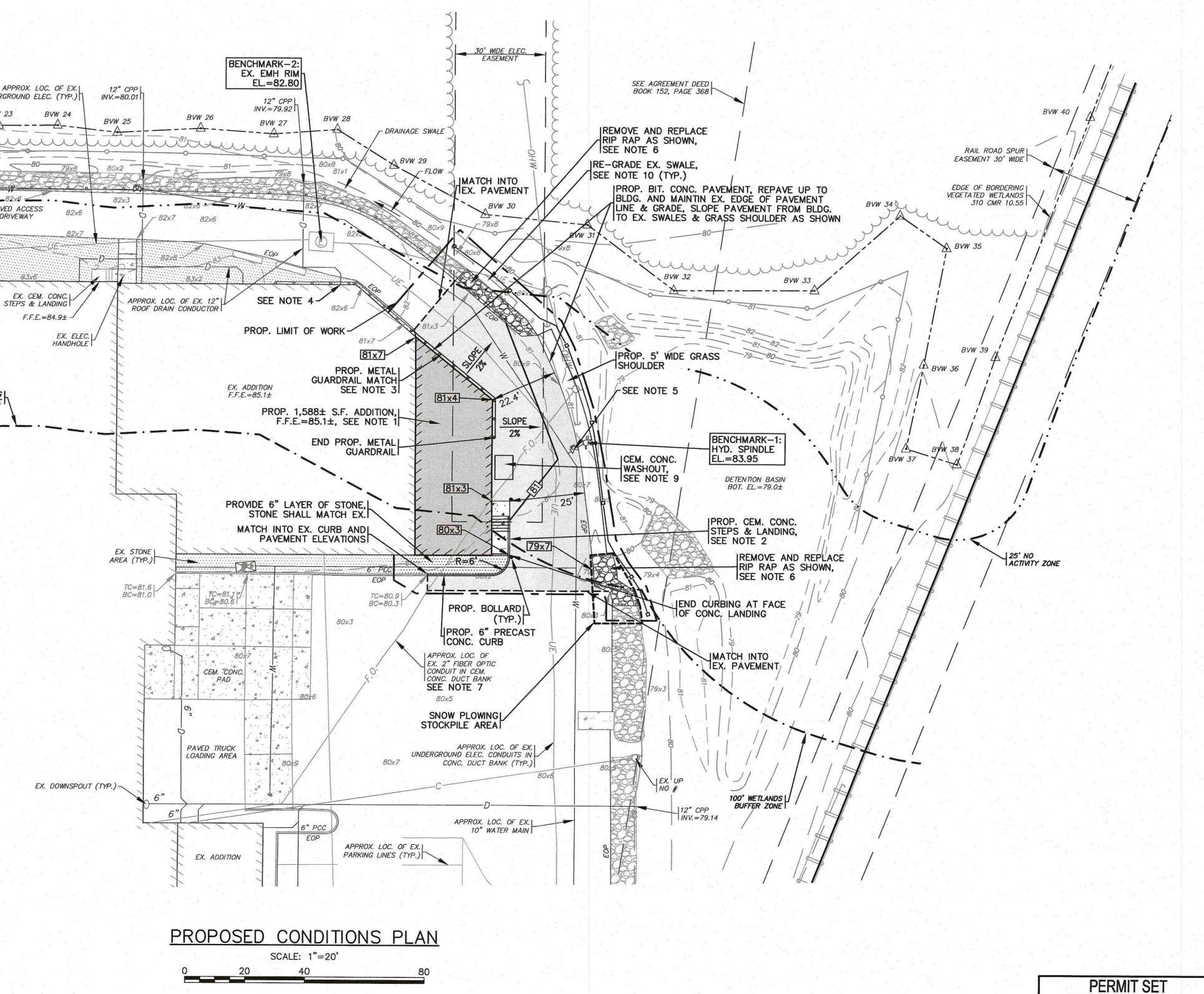
DRAINAGE SWALES SHALL BE INSPECTED SEMI-ANNUALLY AND MAINTENANCE AND REPAIRS MADE AS NECCESSARY. CHECK SWALES FOR SLOPE INTEGRITY, SOIL MOISTURE, VEGETATIVE HEALTH, SOIL STABILITY, SOIL COMPACTION, SOIL EROSION, PONDING AND SEDIMENTATION. REGULAR MAINTENANCE INCLUDES MOWING, FERTILIZING, LIMING, WATER, PRUNING AND WEED AND PEST CONTROL. MOW DRAINAGE SWALES AT LEAST TWICE PER YEAR. GRASS CLIPPINGS SHALL BE REMOVED. DO NOT CUT THE GRASS SHORTER THAN 3-4 INCHES, OTHERWISE THE EFFECTIVENESS OF THE VEGETATION IN REDUCING FLOW VELOCITY AND REMOVING POLLUTANTS MAY BE REDUCED. DO NOT LET THE GRASS HEIGHT EXCEED SIX INCHES. MANUALLY REMOVE SEDIMENT AND DEBRIS AT LEAST TWICE A YEAR AND PERIODICALLY RE-SEED IF NECESSARY TO MAINTAIN A DENSE GROWTH OF VEGETATION. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

## MAINTENANCE OF DETENTION BASIN:

DETENTION BASIN SHOULD BE INSPECTED AT LEAST ONCE PER YEAR TO ENSURE THAT THE BASIN IS OPERATING AS INTENDED. INSPECTIONS SHOULD BE CONDUCTED DURING WET WEATHER TO DETERMINE IF THE BASIN IS MEETING THE TARGETED DETENTION TIMES. AT LEAST TWICE DURING THE GROWING SEASON THE UPPER-STAGE, SIDE SLOPES, EMBANKMENT, AND EMERGENCY SPILLWAY SHOULD BE MOWED AND ACCUMULATED TRASH AND DEBRIS REMOVED. SEDIMENT SHOULD BE REMOVED FROM THE BASIN AS NECESSARY, AND AT LEAST ONCE EVERY 5 YEARS. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

## Stormceptor® MAINTENANCE PROCEDURES

REFER TO DEP FILE No. SE49-605 FOR OPERATION AND MAINTENANCE SCHEDULE



PLAN

CONDITIONS

SITE IMPROPRED (

DWG.

(NOT FOR CONSTRUCTION)

JOB NO.: 22-9846

## **GENERAL NOTES:**

- 1. ALL UNDERGROUND UTILITIES SHOWN OR NOT SHOWN WERE COMPILED ACCORDING TO AVAILABLE RECORD PLANS AND IN PART FROM FIELD SURVEY AND ARE APPROXIMATE ONLY. ACTUAL LOCATIONS MUST BE DETERMINED IN THE FIELD. BEFORE EXCAVATING, BLASTING, INSTALLING, BACKFILLING, GRADING, PAVEMENT RESTORATION, OR REPAIRING. ALL UTILITY COMPANIES, PUBLIC AND PRIVATE, MUST BE CONTACTED INCLUDING THOSE IN CONTROL OF UTILITIES NOT SHOWN ON THIS PLAN. SEE MGL CHAPTER 370, ACTS OF 1963. CONTRACTORS MUST CALL DIG-SAFE AT (1-888-DIG-SAFE OR 811) G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- 2. EXISTING CONDITIONS INFORMATION IS BASED ON ACTUAL FIELD SURVEY, PRIVATE UTILITY PLANS, AND OTHER AVAILABLE SOURCES. FIELD SURVEY WAS PERFORMED BY G.A.F. ENGINEERING, INC., ON VARIOUS DATES AND MOST RECENTLY IN MARCH OF 2021.
- 3. THE CONTRACTOR SHALL COORDINATE AND OBTAIN ALL REQUIRED PERMITS, GIVE ALL NOTICES, COMPLY WITH ALL LAWS AND REGULATIONS. AND PAY ALL FEES ASSOCIATED WITH THE INSTALLATION OF THIS WORK.
- 4. THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
- 5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, SUPERVISION, TOOLS, EQUIPMENT, FUEL, POWER, SANITARY FACILITIES AND INCIDENTALS NECESSARY FOR THE FURNISHING, PERFORMANCE, TESTING, START-UP AND COMPLETION OF THIS WORK.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER OF ANY CONFLICTS DISCOVERED IN THE FIELD.
- ANY CHANGES TO THESE SITE PLANS THAT ARE MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON RECORD DOCUMENTS AND REPORTED TO THE OWNER AND ENGINEER.
- 8. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AN EXCAVATION AND TRENCH PERMIT PURSUANT TO 520 CMR 14.00 AS APPLICABLE PRIOR TO THE START OF CONSTRUCTION.

## CONSTRUCTION NOTES:

- I. IN GENERAL, THE PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EVERY FITTING, CHANGE IN DIRECTION OR DETAIL OF CONSTRUCTION.
- 2. THE LOCATION OF UTILITIES WERE OBTAINED FROM VARIOUS SOURCES OF INFORMATION. THE EXACT LOCATION AND COMPLETENESS IS NOT GUARANTEED. THE CONTRACTOR MUST NOTIFY DIG SAFE PRIOR TO THE START OF CONSTRUCTION (1-888-DIG-SAFE OR 811). G.A.F. ENGINEERING, INC. ASSUMES NO RESPONSIBILITY FOR DAMAGES INCURRED AS A RESULT OF UTILITIES OMITTED OR INACCURATELY SHOWN.
- 3. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF PERSONNEL AND PROTECTION OF PROPERTY AT THE SITE OR ADJACENT THERETO INCLUDING TREES, SHRUBS, LAWNS, PAVEMENTS, ROADWAYS, STRUCTURES AND UNDERGROUND UTILITIES NOT DESIGNED FOR REMOVAL, RELOCATION, OR REPLACEMENT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK
- ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND OF GOOD QUALITY.
- 6. THE CONTRACTOR SHALL KEEP THE PREMISES FREE FROM THE ACCUMULATION OF WASTE MATERIAL AND OTHER DEBRIS RESULTING FROM THIS WORK.
- ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
- THE CONTRACTOR SHALL INSTITUTE ALL SAFETY MEASURES NECESSARY TO PROTECT THE PUBLIC SAFETY. THIS SHALL INCLUDE, BUT NOT LIMITED TO, BARRICADES, SIGNS, LIGHTING, FENCES, POLICE DETAILS, AND ANY OTHER MEANS AS DIRECTED. NO TRENCHES ARE TO REMAIN OPEN OVERNIGHT.
- ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE SITE DATUM.
- 10. SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
- 11. ALL SIDE SLOPES SHALL BE DRESSED WITH 6 INCHES OF TOPSOIL. WHERE SIDE SLOPES EXCEED 3:1, PROVIDE AN EROSION CONTROL BLANKET OVER THE PLANTED SEED BED. SEE PLAN FOR LOCATIONS.
- 12. PERMANENT SEEDING (BEFORE SEPTEMBER 15) LIME TO PH OF 6.5 ACCORDING TO SOIL TEST OR APPLY AT THE RATE OF 100 TO 150 LBS. PER 1,000 SQUARE FEET. APPLY 10-20-20 FERTILIZER AT 1,000 LBS. PER ACRE. INCORPORATE LIME AND FERTILIZER IN TOP 6 INCHES OF SOIL. SEED 100 LBS. PER ACRE OF THE FOLLOWING SEED MIX.

30-35% CREEPING RED FESCUE 30-35% PERENNIAL RYEGRASS 20-25% KENTUCKY BLUEGRASS

10-15% ANNUAL RYEGRASS HYDRO SEEDING IS AN ALTERNATIVE FOR THIS APPLICATION. A MIXTURE OF SEED WATER AND MULCH IS SPRAYED ON THE SEED BED COMBINING THREE (3) SEPARATE ACTIONS INTO ONE (1) OPERATION

- ALL SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE CITY OF NEW BEDFORD SEWER DEPARTMENTS SPECIFICATIONS.
- 14. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE CITY OF NEW BEDFORD PUBLIC INFRASTRUCTURE DEPARTMENT.
- 15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE CITY, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.

## EROSION CONTROL NOTES:

- THE SITE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING AND MAINTAINING SUITABLE EROSION AND SEDIMENTATION CONTROL DEVICES ON SITE DURING CONSTRUCTION AS REQUIRED TO PREVENT SILT FROM LEAVING THE SITE. SILT WILL NOT BE ALLOWED BEYOND CONSTRUCTION LIMITS. ADDITIONAL PROTECTION: ON-SITE PROTECTION MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNFORESEEN CONDITIONS OR ACCIDENTS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLANS DOES NOT PROVIDE SUFFICIENT EROSION AND SEDIMENT CONTROL, ADDITIONAL CONTROL MEASURES SHALL BE IMPLEMENTED. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING EROSION CONTROL DEVICES WHICH BECOME INEFFECTIVE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL TEMPORARY EROSION CONTROL MEASURES AFTER CONSTRUCTION IS COMPLETE AND ALL DISTURBED AREAS HAVE BEEN STABILIZED
- THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR VIOLATIONS OF EROSION CONTROL REGULATIONS.
- CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE
- IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.
- 10. SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE, MAINTAIN DUST CONTROL MEASURES UNTIL ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED
- 11. THE CONTRACTOR WILL ALSO NEED TO COMPLY TO ANY ORDER OF CONDITIONS THAT WILL BE ISSUED BY THE CITY OF NEW BEDFORD CONSERVATION COMMISSION

## PERMIT SET (NOT FOR CONSTRUCTION)

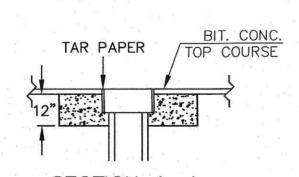
## **DEMOLITION NOTES:**

- 1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE HIS/HER OWN DETERMINATION OF SUBSURFACE CONDITIONS, INCLUDING THE LOCATION OF ROCK AND THE ACTUAL LOCATION OF UTILITIES OR OTHER FEATURES WHICH MAY AFFECT HIS/HER WORK. ANY UNSUITABLE MATERIAL ENCOUNTERED DURING CONSTRUCTION WILL BE REPORTED TO THE ENGINEER OF RECORD FOR RESOLUTION AND CONSTRUCTION METHOD.
- THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND APPARATUS NECESSARY AND SHALL DO ALL WORK REQUIRED TO COMPLETE THE DEMOLITION, REMOVAL, AND ALTERATIONS OF EXISTING FACILITIES, INCLUDING PIPING SYSTEMS AND APPURTENANCES, DRAINAGE, PAVEMENT, LANDSCAPE AND SITE FEATURES ENCOUNTERED DURING THE INSTALLATION AS INDICATED ON THE DRAWINGS. AS HEREIN SPECIFIED, AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- ALL EQUIPMENT, PIPING, AND OTHER MATERIALS THAT ARE NOT TO BE RELOCATED OR TO BE RETURNED TO THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. AWAY FROM THE SITE OF THE WORK AND AT HIS OWN EXPENSE.
- ALL DEMOLITION OR REMOVAL OF EXISTING STRUCTURES, PAVEMENT, UTILITIES, EQUIPMENT, AND APPURTENANCES, LANDSCAPE AND SITE FEATURES SHALL BE ACCOMPLISHED WITHOUT DAMAGING THE INTEGRITY OF EXISTING STRUCTURES, EQUIPMENT, PAVEMENT, APPURTENANCES, AND TREES TO REMAIN
- SUCH ITEMS THAT ARE DAMAGED SHALL BE EITHER REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE TO A CONDITION AT LEAST EQUAL TO THAT WHICH EXISTED PRIOR TO THE START OF HIS WORK TO THE SATISFACTION OF THE DESIGN ENGINEER AND/OR THE OWNER.
- PROVIDE TWO (2) COPIES OF PROPOSED METHODS AND OPERATIONS OF DEMOLITION TO THE OWNER AND ENGINEER FOR REVIEW PRIOR TO THE START OF WORK. INCLUDE IN THE SCHEDULE THE COORDINATION FOR SHUTOFF, CAPPING AND CONTINUATION OF UTILITY SERVICES AS REQUIRED.
- PROVIDE A DETAILED SEQUENCE OF WORK TO THE DESIGN ENGINEER AND THE OWNER FOR DEMOLITION AND REMOVAL WORK TO ENSURE THE UNINTERRUPTED PROGRESS OF THE OWNER'S OPERATIONS.
- ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES AND PERSONS.
- PROVIDE INTERIOR AND EXTERIOR SHORING. BRACING, OR SUPPORT TO PREVENT MOVEMENT, SETTLEMENT OR COLLAPSE OF STRUCTURES TO BE DEMOLISHED AND ADJACENT FACILITIES TO REMAIN.
- 10. THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES AT NO COST TO THE OWNER.

# SECURE COMPOST FILTER SOCK WITH 2"x2"x3' HARWOOD STAKES PLACED AT 5' ON CENTER! -8" DIA. COMPOST FILTER SOCK FLOW -**JUNDISTURBED**

- COMPOST FILTER SOCKS SHALL BE INSTALLED DOWNSLOPE OF ALL PROPOSED AND EXISTING DISTURBED AREAS, OR AS SHOWN ON THE PLANS.
- 2. SECURE COMPOST FILTER SOCKS WITH 2"x2"x3' WOOD STAKES EVERY 5' AND STAKE ON EACH END. STAKES SHOULD BE DRIVEN THROUGH THE MIDDLE OF THE FILTER SOCK LEAVING 1'-4" OF STAKE EXTENDING ABOVE THE FILTER SOCK. STAKES SHOULD BE DRIVEN PERPENDICULAR TO SLOPE FACE.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL VEGETATIVE OR STABILIZED COVER HAS BEEN FIRMLY ESTABLISHED.
- EROSION CONTROL MEASURES SHALL FOLLOW THE PERFORMANCE STANDARDS OF THE USDA SOIL CONSERVATION SERVICE, AND ANY APPLICABLE STATE/LOCAL CONSERVATION AUTHORITY.

## COMPOST FILTER SOCK DETAIL



## SECTION A-A VALVE BOX

- CEMENT CONCRETE SHALL BE 5000 PSI AND CONFORM TO SECTION M4 OF THE LATEST REVISION OF MassDOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES.
- CONTRACTOR SHALL CONFIRM THE EXISTENCE OF CEMENT CONCRETE COLLARS AROUND ALL EXISTING STRUCTURES WITHIN THE WORK AREA. CONTRACTOR TO INSTALL 12"x12" CEMENT CONCRETE COLLARS IF NECESSARY.

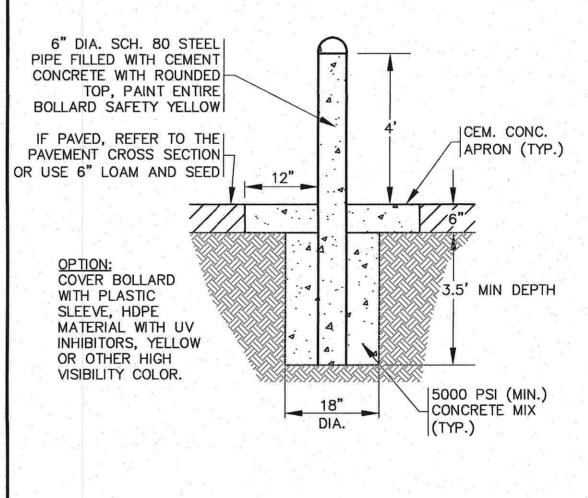
## CONCRETE COLLARS

## LOAM OR REUSE EXISTING AND PROVIDE ADDITIONAL LOAM AS REQUIRED FOR MINIMUM 6" DEPTH GRASS SEED-REGRADE WITH COMMON BORROW AS REQUIRED TO BLEND NEW GRADES WITH THE EXISTING SURFACE.

PROVIDE 6" GOOD QUALITY FERTILE

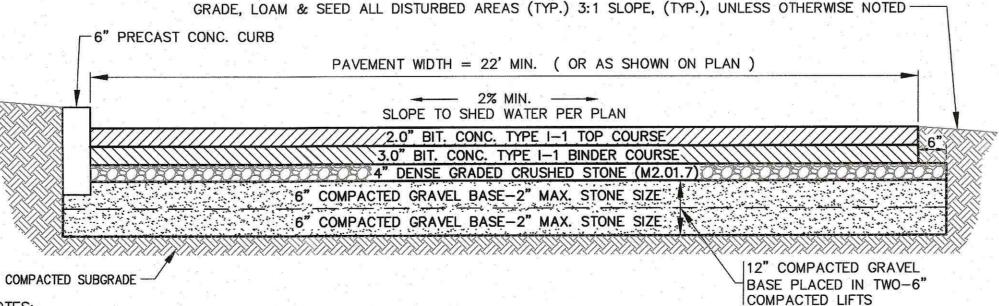
- MATERIALS AND CONSTRUCTION METHODS FOR LOAM BORROW AND TOPSOIL SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 751 OF THE MassDOT STANDARD SPECIFICATIONS AND WITH THE PROCEDURES DESCRIBED HEREIN
- MATERIALS AND CONSTRUCTION FOR SEEDING SHALL CONFORM TO THE RELEVANT PROVISIONS OF SECTION 765 OF THE MassDOT STANDARD SPECIFICATIONS.
- SEED FOR GRASS STRIPS SHALL CONFORM TO MassDOT MATERIAL SPEC. M6.03.0, GRASSPLOTS AND ISLANDS.
- GRASS SHALL BE MAINTAINED A MINIMUN OF 4" HIGH WITHIN THE DRAINAGE AREAS.
- LOAM AND SEED ALL DISTURBED AREAS.

### LOAM AND SEED DETAIL N.T.S.



SEE PLAN FOR LOCATIONS.

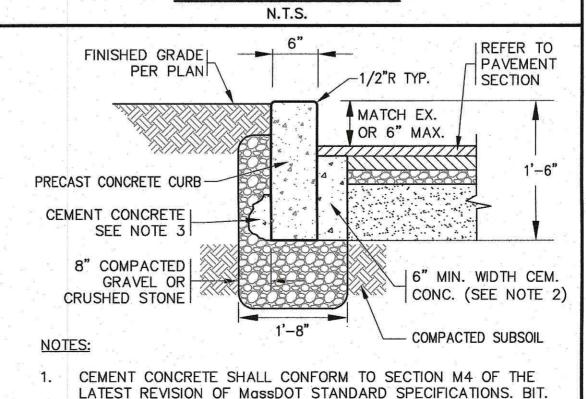
# TYPICAL BOLLARD DETAIL



- 1. ALL PAVEMENT SHALL BE IN ACCORDANCE WITH MassDOT MATERIAL SPEC. SECTION 460 & 401, UNLESS OTHERWISE NOTED.
- 2. GRAVEL BASE SHALL CONFORM TO MassDOT MATERIAL SPEC. SECTION M1.03.0 TYPE C.
- SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- 4. SEE PLAN FOR LOCATIONS, REFER TO THE PRECAST CONCRETE CURB DETAILS FOR INSTALLATION DETAILS AND SPECIFICATIONS.

## TYPICAL BITUMINOUS PAVING SECTION

N.T.S.



LATEST REVISION OF MassDOT STANDARD SPECIFICATIONS. BIT. CONC. NOT ACCEPTABLE.

- 4000 PSI CEMENT CONCRETE WILL BE CONTINUOUS FOR ENTIRE LENGTH OF CURB.
- 3. 1 CU.YD. OF 4000 PSI CEMENT CONCRETE WILL BE PLACED WITHIN 12" OF ALL JOINTS AT BACK OF CURBING. AS SHOWN

PRECAST CONCRETE CURB N.T.S.

### **ABBREVIATIONS** ASBESTIC CONCRETE ADS ADVANCED DRAINAGE SYSTEM APPROX APPROXIMATE BOTTOM OF CURB BIT. CONC. BITUMINOUS CONCRETE **BOULDERS** BOTTOM OF WALL BVW BORDERING VEGETATED WETLANDS CB CATCH BASIN CB/DH CONCRETE BOUND/DRILL HOLE CAPE COD BERM CEM. CEMENT CAST IRON C.I. CONC. CONCRETE C.L.D.I CEMENT LINED DUCTILE IRON CMP CORRUGATED METAL PIPE CPP CORRUGATED PLASTIC PIPE C.T.B. CONCRETE THRUST BLOCK DIA DIAMETER DMH DRAIN MANHOLE DI DUCTILE IRON DCS DRAINAGE CONTROL STRUCTURE **ELECTRIC** ELEV., EL **ELEVATION** EDGE OF PAVEMENT **EXISTING** F.D.C. FIRE DEPARTMENT CONNECTION F.E.S. FLARED END SECTION F.F.E. FINISHED FLOOR ELEVATION FND. FOUND F.O. FIBER OPTIC FP FIRE PROTECTION GAS GAS GATE, GAS VALVE HANDICAP PARKING HIGH DENSITY POLYETHYLENE H.D.P. HYD HYDRANT INV. INVERT MAX MAXIMUM MED MEDIUM MIN. MINIMUM N.T.S. NOT TO SCALE N/F NOW OR FORMERLY OVERHEAD WIRE PCC PRECAST CONCRETE CURBING $\overline{c}$ PVC POLYVINYL CHLORIDE PIPE PROP PROPOSED RCP REINFORCED CONCRETE PIPING RADIUS REMOVE AND DISPOSE R&S REMOVE AND STOCK SB/DH STONE BOUND/DRILL HOLE SLOPED GRANITE CURBING SEWER MANHOLE STA STATION TC TOP OF CURB TOP OF WALL **TYPICAL** T/0/F TOP OF FOUNDATION UTILITY POLE UNDERGROUND ELECTIC VB VALVE BOX VERTICAL GRANITE CURB VGC WATER WATER GATE, WATER VALVE WG, WV WATER QUALITY STRUCTURE **LEGEND PROPOSED** 45 45-CONTOURS 43x5 SPOT GRADES \_---/ WETLANDS ---- 25' NO ACTIVITY ZONE 100' BUFFER ZONE F.E.M.A. FLOOD ZONE DRAIN LINE ROOF DRAIN LINE ----RD----CATCH BASIN (CB) DRAIN MANHOLE (DMH) ELECTRIC MANHOLE (EMH) UNDERGROUND UTILITIES OVERHEAD WIRES ---OHW--------OHW----UTILITY POLE -0 GUY POLE WATER GATE VALVE WATER SHUTOFF/CURB STOP HYDRANT POST INDICATOR VALVE WATER LINE

**EXISTING** 

43x5

-0

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0 0 0 0

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FIRE PROTECTION LINE

SEWER MANHOLE (SMH)

TREELINE

LIGHT POST

GAS LINE

GAS GATE/VALVE

GAS SHUTOFF

GAS METER

SIGN

BOUND

TEST PIT/PERC TEST

SILT FENCE

GUARD RAIL

FLARED END SECTION

STONE WALL

BOLLARD

——FP——

·www.

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JOB NO.:

22-9846

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