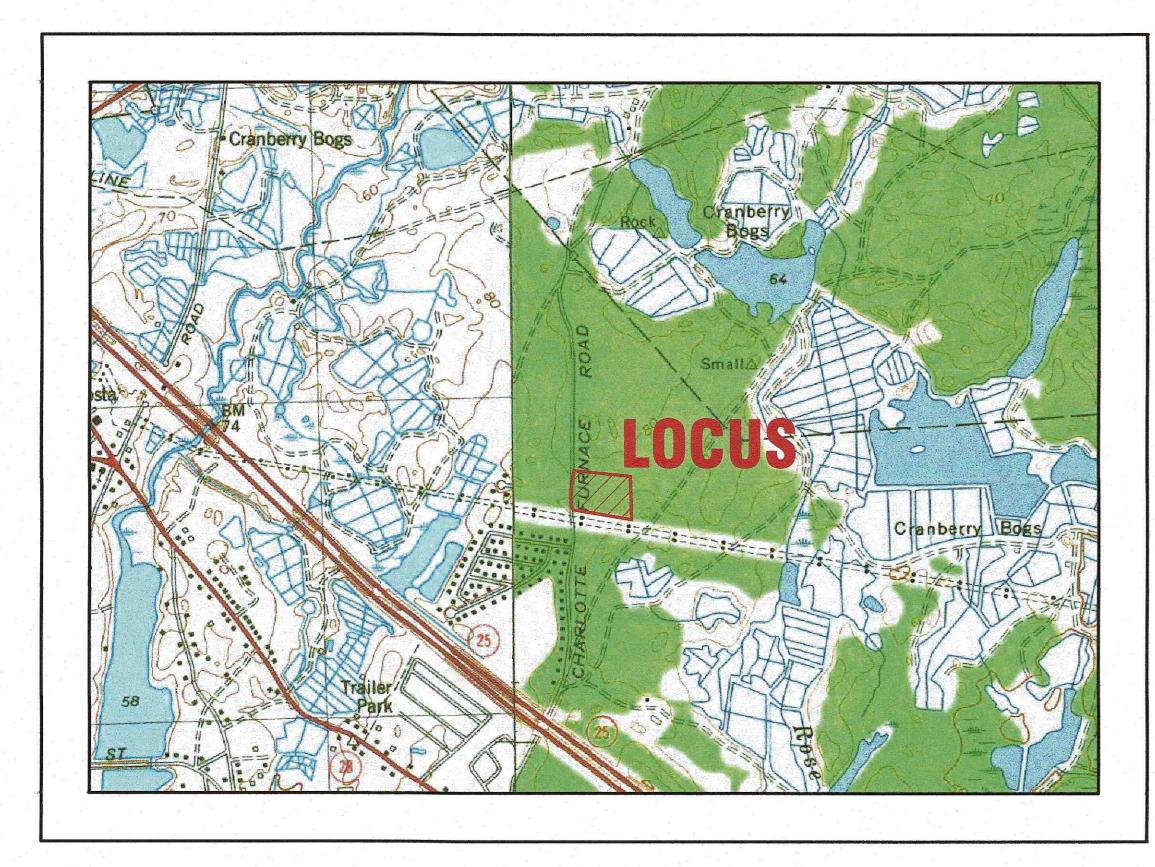
# MASTER MILLWORK, INC.

SITE DEVELOPMENT PLAN 55 CHARLOTTE FURNACE ROAD WAREHAM, MASSACHUSETTS

OWNER: MASTER MILLWORK, INC.

41 MEETING HOUSE LANE, SUITE 11 SAGAMORE BEACH, MA 02562



- U.S.G.S. LOCUS PLAN -

SCALE: 1"=1000'

### SITE DATA

ZONING DISTRICT: BDOD ASSESSOR'S MAP: 105 ASSESSOR'S LOTS: MA2 REQUIRED LOT AREA: 87,120 S.F. MIN. FRONTAGE: 100' MIN. FRONT SETBACK: 25' MIN. SIDE & REAR SETBACK: 10' MAX. PRINCIPAL BUILDING HEIGHT: 40' MAX. BUILDING COVERAGE: 25% MAX. FLOOR AREA RATIO: 75% MAX. IMPERVIOUS COVERAGE: 65% WATER SUPPLY: TOWN WATER SANITARY SEWER: ON SITE SEPTIC

LANDSCAPE BUFFER: 10'

#### ZONING DATA

LOT AREA: FRONT SETBACK: 261,408 S.F. (SAME AS EXISTING) 178.8' (SAME AS EXISTING) SIDE SETBACK: (SAME AS EXISTING) 40.3 **REAR SETBACK:** 217.0' 7.7% 23.9% MAX. BUILDING COVERAGE: MAX. LOT COVERAGE: 24.5% 57.7%

#### FLOOD ZONE DATA

THE ENTIRE LOCUS IS LOCATED IN FLOOD ZONE X, AS INDICATED ON FEMA FIRM MAP# 25023C0486J DATED: JULY 17, 2012.



## G. A. F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS

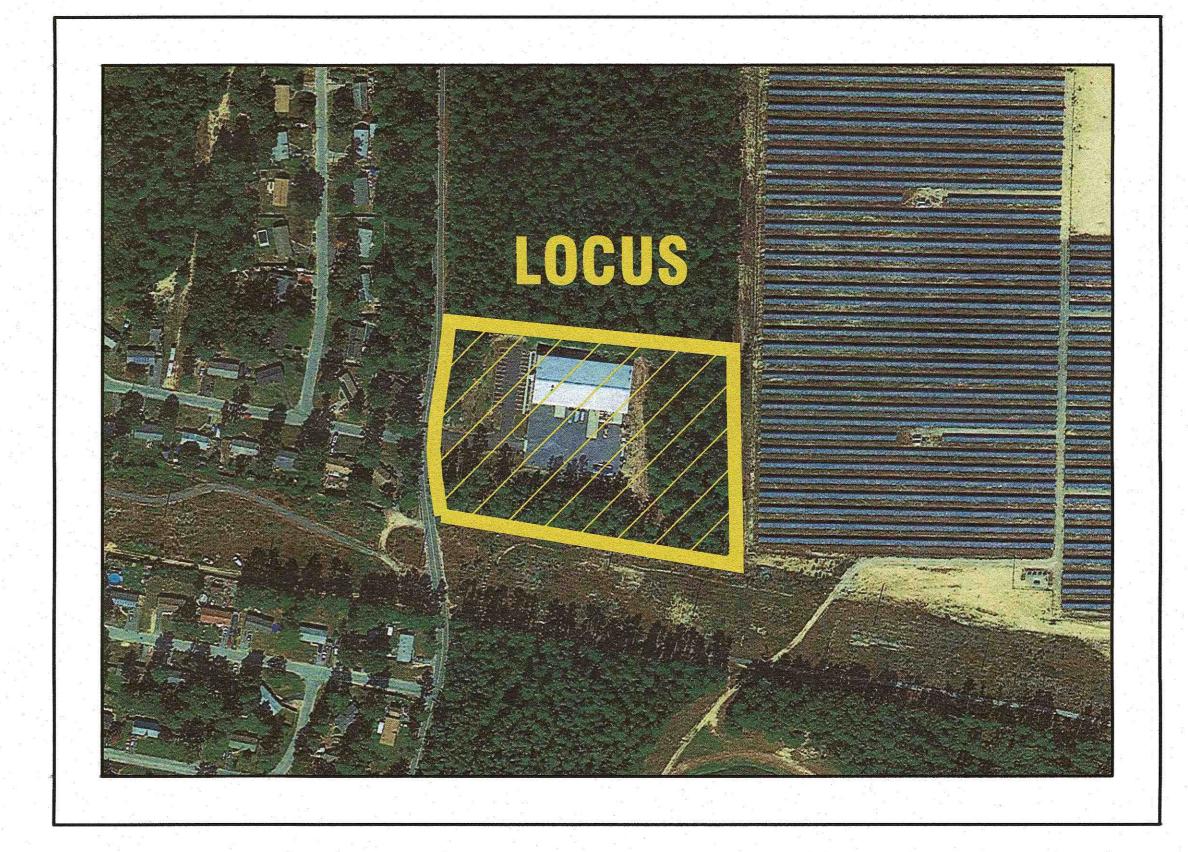
266 MAIN STREET, WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 É-MAIL: gaf@gaf-eng.com

JULY 8, 2020

APPLICANT: MASTER MILLWORK, INC.

41 MEETING HOUSE LANE, SUITE 11

SAGAMORE BEACH, MA 02562



- AERIAL OVERVIEW -

SCALE: 1"=200'

#### PLAN INDEX:

SHEET NO. **DESCRIPTION** 

COVER SHEET
GENERAL NOTES & LEGEND
EXISTING CONDITIONS & DEMOLITION LAYOUT & UTILITIES
GRADING & DRAINAGE
LANDSCAPING PLAN
DETAIL SHEET 1 DETAIL SHEET 2 DETAIL SHEET 3 DETAIL SHEET 4

#### **PARKING DATA:**

REQUIRED (OFFICE):1 SPACE PER 250 S.F. G.F.A.
10,000 S.F./250 S.F.=40 SPACES
REQUIRED (WAREHOUSE):1 SPACE PER 1.5 EMPLOYEES ON LARGEST SHIFT PLUS ONE PER VEHICLE STORED ON PREMISES. PROPOSED NUMBER OF EMPLOYEES=50 NUMBER OF PARKING SPACES REQUIRED=34

TOTAL REQUIRED: 74 SPACES

PROVIDED: 83 SPACES (EXISTING & PROPOSED)

**PERMIT SET** (NOT FOR CONSTRUCTION)

MILLWORK,

JOB NO.: 19-9342 DWG. OF 10

#### **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 AN ON THE GROUND FIELD SURVEY BY GAF ENGINEERING ON VARIOUS DATES AND MOST RECENTLY IN JULY OF 2019.
- 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.
- 6. 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:**

- 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.
- 4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION REQUIRED FOR THE INSTALLATION OF THIS WORK.
- 5. 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.
- 7. ALL PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AS PART OF THIS WORK.
- 8. 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.
- 9. ELEVATIONS ARE IN FEET AND TENTHS AND ARE BASED ON THE DATUM OF NAVD-88.
- 10. SIDE SLOPE GRADING SHALL BE AS NOTED ON THE SITE PLANS.
- 11. ALL SIDE SLOPES SHALL BE DRESSED WITH 4 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 4 INCHES OF SOIL. SEED 100 LBS. PER ACRE OF THE FOLLOWING SEED MIX.

## PURE PERCENT 30-35% CREEPING RED FESCUE PERENNIAL RYEGRASS 20-25% KENTUCKY BLUEGRASS ANNILLAL RYEGRASS

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

- 13. ALL SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE TOWN OF WAREHAM SEWER DEPARTMENTS SPECIFICATIONS.
- 14. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.
- 15. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.
- 16. DEWATERING IF REQUIRED SHALL BE DIRECTED TO A 5' MIN. DIAMETER RING OF HAYBALES OR A DIRTBAG. CONTRACTOR SHALL PROVIDE AND MAINTAIN DEWATERING EQUIPMENT FOR THE CONTROL, COLLECTION AND DISPOSAL OF GROUND AND SURFACE WATER WHERE NECESSARY TO COMPLETE THE WORK.

#### **EROSION CONTROL NOTES:**

- 1. 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.
- 2. 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.
- 3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR ALL GRADING AND OTHER LAND DISTURBING ACTIVITIES PRIOR TO CONSTRUCTION.
- 4. THE CONTRACTOR IS RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY BUILDUP OF SEDIMENT WHICH ESCAPES FROM THE SITE.
- 5. CONTRACTOR IS RESPONSIBLE FOR CLEANING SILT AND DEBRIS OUT OF ALL STORM DRAINAGE STRUCTURES UPON THE COMPLETION OF CONSTRUCTION.
- 6. 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.

  9. 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 MAY BE ISSUED BY THE TOWN OF WAREHAM CONSERVATION COMMISSION.

### DRAINAGE OPERATION AND MAINTENANCE SCHEDULE:

THE OPERATION AND MAINTENANCE (O&M) SCHEDULE DURING THE CONSTRUCTION PERIOD IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OUTLINE BELOW SHALL BE FOLLOWED TO ENSURE THE PROPER CONSTRUCTION AND FUNCTION OF THE DRAINAGE FACILITIES.

- I. IN CONJUNCTION WITH THE SITE CONSTRUCTION, ALL DRAINAGE STRUCTURES SHALL BE INSTALLED AND THE AFFECTED AREAS STABILIZED (LOAM AND SEED, HYDROSEED, PLANTED, RIP—RAP, ETC.). PERMANENT STABILIZATION OF THESE AREAS SHALL BE STARTED AS SOON AS POSSIBLE.
- 2. EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
- ALL EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK INSTALLED IN THEM PRIOR TO CONSTRUCTION. ALL PROPOSED CATCH BASINS AND WATER QUALITY CATCH BASINS SHALL HAVE TEMPORARY SILT SACK INSTALLED IN THEM AS SOON AS THE STRUCTURE IS SET. CONTRACTOR SHALL REMOVE AND DISPOSE OF THEM AT THE COMPLETION OF CONSTRUCTION. ALL EXISTINTG AND PROPOSED CATCH BASINS AND WATER QUAILTY CATCH BASINS SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- 4. THE INFILTRATION BASIN SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- 5. STONE FILLED TRENCHES SHALL BE COVERED WITH AN ADDITIONAL TEMPORARY LAYER OF FILTER FABRIC UNTIL THE ABOVE GRADIENT SLOPE IS STABILIZED. IF THERE IS ANY EVIDENCE OF SEDIMENT ENTERING THE TRENCHES, THE AFFECTED AREA OF THE TRENCH SHALL BE FULLY RECONSTRUCTED INCLUDING THE FILTER FABRIC.
- 6. THE LEACHING GALLEYS AND OIL/GRIT SEPARATOR SHALL BE INSPECTED WEEKLY DURING CONSTRUCTION. IF THERE IS ANY SEDIMENT BUILDUP, THE AFFECTED STRUCTURES SHALL BE CLEANED IMMEDIATELY, AND ALL MATERIAL REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- 7. ALL AREAS SHALL BE INSPECTED WEEKLY, AND AFTER LARGE STORMS. IF THERE IS EVIDENCE OF EROSION, THE ERODED AREA SHALL BE RE-STABILIZED, AND MEASURES SHALL BE TAKEN TO PREVENT REOCCURRENCE. THIS SCHEDULE MUST BE ADHERED TO BY THE CONTRACTOR UNTIL THE PROJECT IS ACCEPTED BY THE OWNER.

#### POST-CONSTRUCTION OPERATION AND MAINTENANCE PLAN:

UPON THE COMPLETION OF CONSTRUCTION, MAINTENANCE SHALL BE CONDUCTED BY THE OWNER OR OWNER'S AGENT ON THE SITE. THE FOLLOWING SHALL BE CARRIED OUT BY THE RESPONSIBLE PARTY AND SHALL BE ADHERED TO ENSURE THE PROPER OPERATION OF THE DRAINAGE FACILITIES.

- 1. 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. ONCE REMOVED FROM PAVED SURFACES, THE SWEEPINGS 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).
- 2. NYLOPLAST DRAIN MANHOLES SHALL INSPECTED MONTHLY, AND SHALL BE CLEANED AT LEAST FOUR TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. ALL DEBRIS, SEDIMENTS AND HYDROCARBONS SHOULD BE HANDLED PROPERLY AND DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL GUIDELINES AND REGULATIONS. IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.000 AND HANDLED AS HAZARDOUS WASTE.
- PROPRIETARY CATCH BASINS (WATER QUALITY CATCH BASINS) ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT THE UNITS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW-REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS). IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
- 4. INFILTRATION BASIN AREAS SHALL BE INSPECTED AT LEAST FOUR TIMES PER YEAR TO ENSURE THE BASINS ARE OPERATING AS INTENDED. ALSO INSPECT THE BASINS DURING AND AFTER MAJOR STORM EVENTS TO DETERMINE IF THE BASINS ARE MEETING THE EXPECTED DETENTION TIMES. POTENTIAL PROBLEMS THAT SHALL BE CHECKED INCLUDE: SUBSIDENCE, EROSION, CRACKING OR TREE GROWTH ON THE EMBANKMENT, SEDIMENT ACCUMULATION AROUND THE STONE FILLED TRENCH, DAMAGE TO THE EMERGENCY SPILLWAY, SEDIMENT ACCUMULATION AROUND THE OUTLET AND EROSION WITHIN THE BASIN AND BANKS. MAKE ANY NECESSARY REPAIRS IMMEDIATELY. MOW THE UPPER—STAGE, SIDE SLOPES AND EMBANKMENTS AT LEAST TWICE PER YEAR. REMOVE SEDIMENT AS NECESSARY, BUT AT LEAST ONCE EVERY FIVE YEARS. SEDIMENT SHALL BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 5. STONE FILLED TRENCHES SHALL BE INSPECTED DURING AND 24 HOURS AFTER ALL MAJOR STORM EVENTS TO LOOK FOR PONDED WATER. IF THERE IS EVIDENCE OF PONDED WATER AT THE SURFACE OF THE TRENCH, IT IS LIKELY THAT THE TRENCH IS CLOGGED. REMOVE AND REPLACE THE FIRST LAYER OF STONE AGGREGATE AND FILTER FABRIC. IF WATER IS PONDED INSIDE THE TRENCH THEN THE TRENCH HAS FAILED. IN THIS CASE REMOVE ALL ACCUMULATED SEDIMENT, STONE AND FILTER FABRIC, THE BOTTOM OF THE TRENCH MUST BE SCARIFIED AND TILLED TO INDUCE INFILTRATION AND REPLACE WITH NEW STONE AND FILTER FABRIC. INSPECT STONE TRENCHES EVERY 6 MONTHS AND ROUTINELY REMOVE DEBRIS, TRASH, LEAVES, AND ANY SEDIMENT FROM THE SURFACE OF THE TRENCH, ADD STONE IF NECESSARY.
- 6. DEEP SUMP CATCH BASINS ARE UNDERGROUND RETENTION SYSTEMS DESIGNED TO REMOVE TRASH, DEBRIS AND COARSE SEDIMENT FROM STORMWATER RUNOFF AND SERVE AS TEMPORARY SPILL CONTAINMENT DEVICES FOR FLOATABLES SUCH AS OILS AND GREASE. INSPECT CATCH BASINS MONTHLY AND CLEAN AT LEAST TWO TIMES PER YEAR AND AT THE END OF THE FOLIAGE AND SNOW—REMOVAL SEASONS. SEDIMENTS MUST ALSO BE REMOVED WHENEVER THE DEPTH OF DEPOSITS IS GREATER THAN OR EQUAL TO ONE HALF THE DEPTH FROM THE BOTTOM OF THE INVERT. SEDIMENT SHALL BE REMOVED THROUGH THE USE OF A VACUUM TRUCK. SEDIMENT MUST BE HANDLED AND DISPOSED OF PROPERLY IN ONE OF THE WAYS ALREADY APPROVED BY MASSDEP (SEE MASSDEP POLICY ON MANAGEMENT OF CATCH BASIN CLEANINGS). IF THERE IS EVIDENCE THAT THEY HAVE BEEN CONTAMINATED BY A SPILL OR OTHER MEANS, THE CLEANINGS MUST BE EVALUATED IN ACCORDANCE WITH THE MASSDEP HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
- 7. OIL/GRIT SEPARATORS ARE UNDERGROUND STORAGE TANKS WITH THREE CHAMBERS DESIGNED TO REMOVE HEAVY PARTICULATES, FLOATING DEBRIS AND HYDROCARBONS FROM STORMWATER. INSPECT OIL/GRIT SEPARATORS MONTHLY AND CLEAN THEM OUT AT LEAST TWICE PER YEAR. POLLUTED WATER OR SEDIMENT REMOVED FROM AN OIL/GRIT SEPARATOR SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & FEDERAL LAWS AND REGULATIONS.
- 8. LEACHING GALLEYS SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT IN THE FIRST FEW MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. THEREAFTER, THE LEACHING GALLEYS SHALL BE INSPECTED AT LEAST ONCE PER YEAR. WATER DEPTH IN THE LEACHING GALLEYS SHOULD BE OBSERVED AND MEASURED AT 0, 24, AND 48—HOUR INTERVAL'S AFTER A MAJOR STORM EVENT AT LEAST ONCE PER YEAR. EXFILTRATION RATES ARE CALCULATED BY DIVIDING THE DROP IN THE WATER LEVEL (INCHES) BY THE ELAPSED TIME (HOUR). A COMPARISON OF EXFILTRATION RATE MEASUREMENTS TAKEN OVER THE YEARS PROVIDE A USEFUL TOOL TRACKING ANY CLOGGING PROBLEMS WITH THE UNDERGROUND INFILTRATION SYSTEM.

#### DRAINAGE INSTALLATION NOTES:

- ALL DRAINAGE PIPES, UNLESS OTHERWISE NOTED, ARE TO BE ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. REFER TO PLAN FOR LOCATION, SIZES AND SLOPES.
- ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 6" ADS N-12 PIPE WITH SOIL TIGHT JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00%. REFER TO PLAN FOR LOCATION.
- 3. MIN. COVER ON PIPES SHALL NOT BE LESS THAN 1.5 FEET.
- 4 ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.

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.
- 2. 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 DRAWNGS, AS HEREIN SPECIFIED, AND/OR AS DIRECTED BY THE DESIGN ENGINEER.
- 3. 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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.
- B. ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES AND PERSONS.
- 9. 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.
- 11. THE EXISTING BUILDING FOOTPRINT SHALL BE BACKFILLED WITH STRUCTURAL FILL AND COMPACTED TO AT LEAST 95% OF MAXIMUM DENSITY. THE SLAB SHOULD BE CONSTRUCTED ON A MINIMUM 8 INCH THICK LAYER OF COMPACTED 3/4" CRUSHED STONE. COORDINATE WITH ALL ARCHITECTURAL AND STRUCTURAL DRAWINGS.

#### WATER INSTALLATION NOTES:

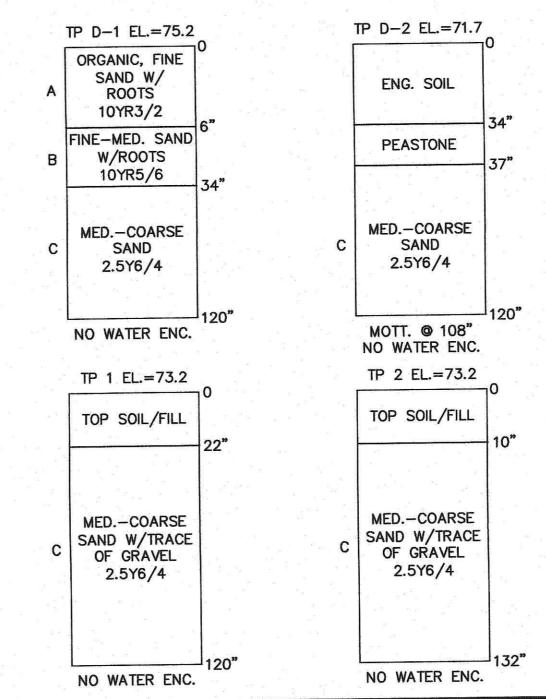
- 1. ALL WATER MAINS, SERVICES, GATE VALVES/GATE BOX, CURB STOPS, HYDRANTS, FITTINGS, ETC. & METHOD OF INSTALLATION SHALL CONFORM TO THE TOWN OF WAREHAM FIRE DISTRICT RULES & REGULATIONS.
- WATER MAIN SHALL BE TESTED & DISINFECTED IN ACCORDANCE WITH THE TOWN OF WAREHAM FIRE DISTRICT REQUIREMENTS.
- CONTRACTOR TO COORDINATE WITH THE TOWN OF WAREHAM FIRE DISTRICT FOR THE INSPECTIONS OF THE WATER MAIN INSTALLATION.
- THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE INSTALLATION OF THE WATER SERVICE.
- THE CONTRACTOR SHALL OBTAIN A COPY OF THE REGULATIONS FROM THE TOWN OF WAREHAM FIRE DISTRICT BEFORE PROCEEDING WITH THE INSTALLATION OF THE WATER SERVICE.

WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL

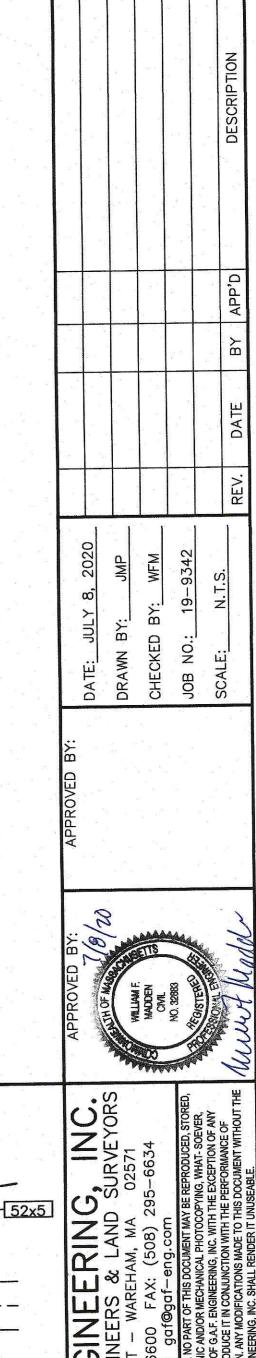
PROPOSED DRAINAGE LINES.

#### TEST PIT DATA

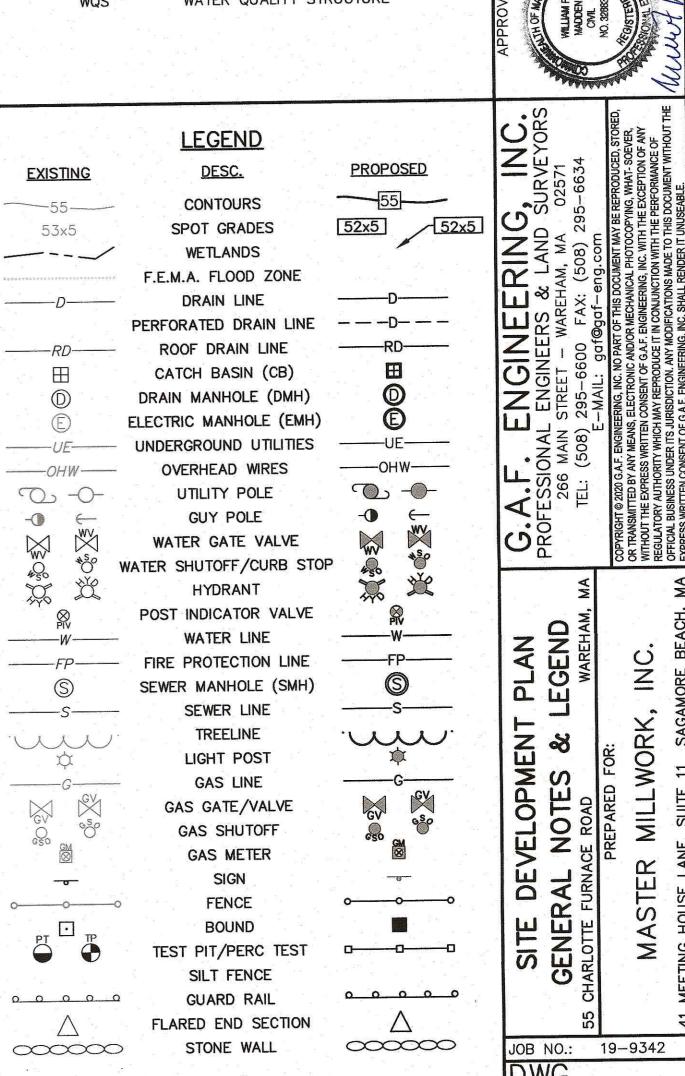
DATE OF TESTING: AUGUST 22, 2019
PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING INC.
REFER TO EXISTING CONDITIONS & DEMOLITION PLAN FOR TEST PIT LOCATIONS

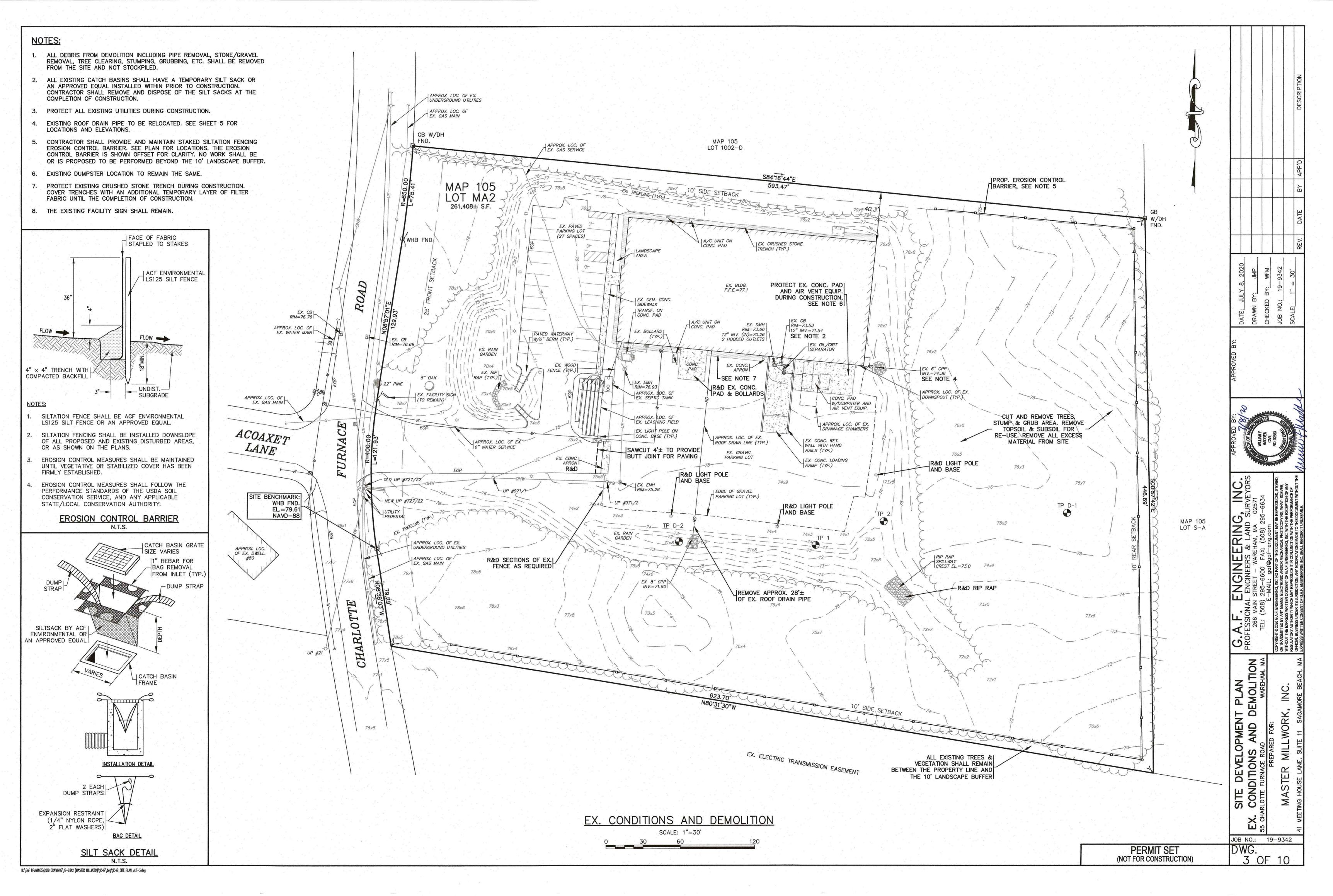


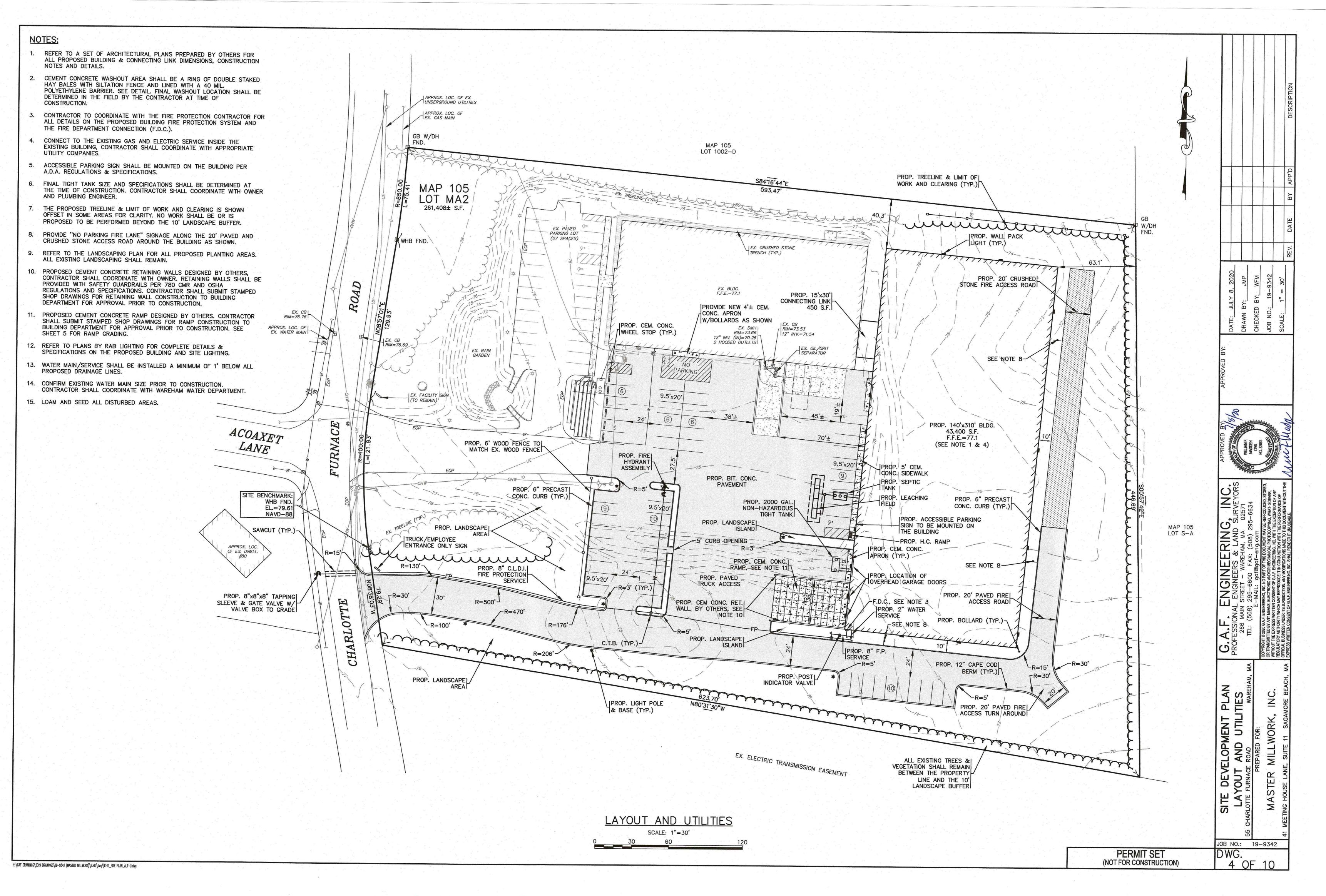
#### **ABBREVIATIONS** ADVANCED DRAINAGE SYSTEM APPROXIMATE APPROX. BOTTOM OF CURB BITUMINOUS CONCRETE BIT. CONC. BOULDERS BLDRS BOTTOM OF WALL BW BORDERING VEGETATED WETLANDS BVW CATCH BASIN CONCRETE BOUND/DRILL HOLE CB/DH CCB CAPE COD BERM CEMENT CEM. CAST IRON C.I. CONCRETE CONC. CEMENT LINED DUCTILE IRON C.L.D.I. CORRUGATED METAL PIPE CMP CORRUGATED PLASTIC PIPE CPP DIAMETER DIA DRAIN MANHOLE **DMH** DUCTILE IRON DRAINAGE CONTROL STRUCTURE DCS **ELECTRIC** ELEVATION ELEV.,EL. EDGE OF PAVEMENT EOP EXISTING EX. FIRE DEPARTMENT CONNECTION F.D.C. FLARED END SECTION F.E.S. FINISHED FLOOR ELEVATION F.F.E. FOUND FND. FIRE PROTECTION GAS GATE, GAS VALVE HANDICAP PARKING HIGH DENSITY POLYETHYLENE H.D.P.E. HYDRANT HYD INV. INVERT MAXIMUM MAX MEDIUM MED MINIMUM NOT TO SCALE N.T.S. NOW OR FORMERLY OHW OVERHEAD WIRE PRECAST CONCRETE CURBING PCC POLYVINYL CHLORIDE PIPE PVC PROPOSED PROP. REINFORCED CONCRETE PIPING RCP RADIUS REMOVE AND DISPOSE REMOVE AND STOCK STONE BOUND/DRILL HOLE SLOPED GRANITE CURBING SGC SMH SEWER MANHOLE STA STATION TOP OF CURB TOP OF WALL TYPICAL T/0/F TOP OF FOUNDATION UTILITY POLE UNDERGROUND ELECTRIC UE VERTICAL GRANITE CURB VGC WATER GATE, WATER VALVE WATER QUALITY STRUCTURE

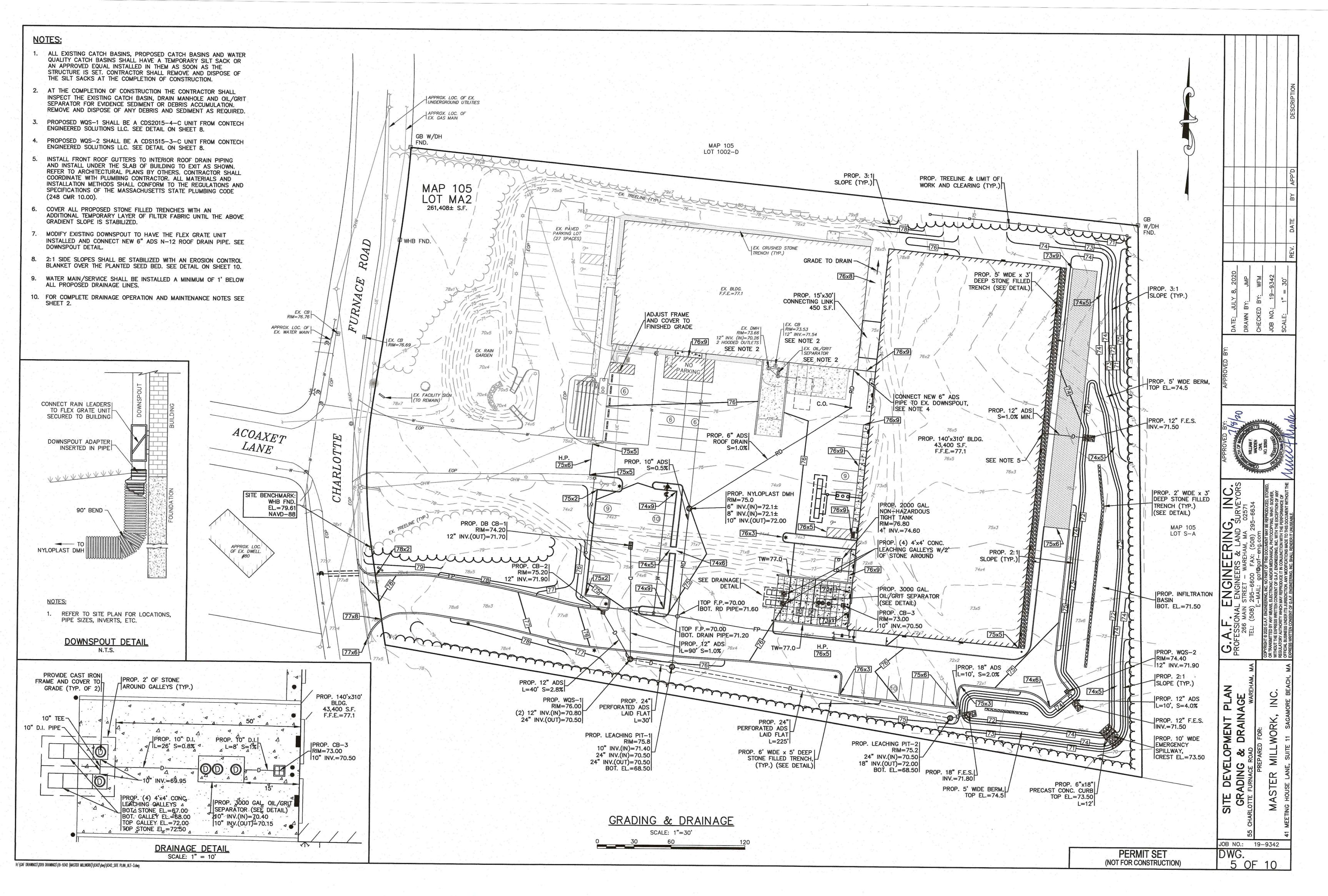


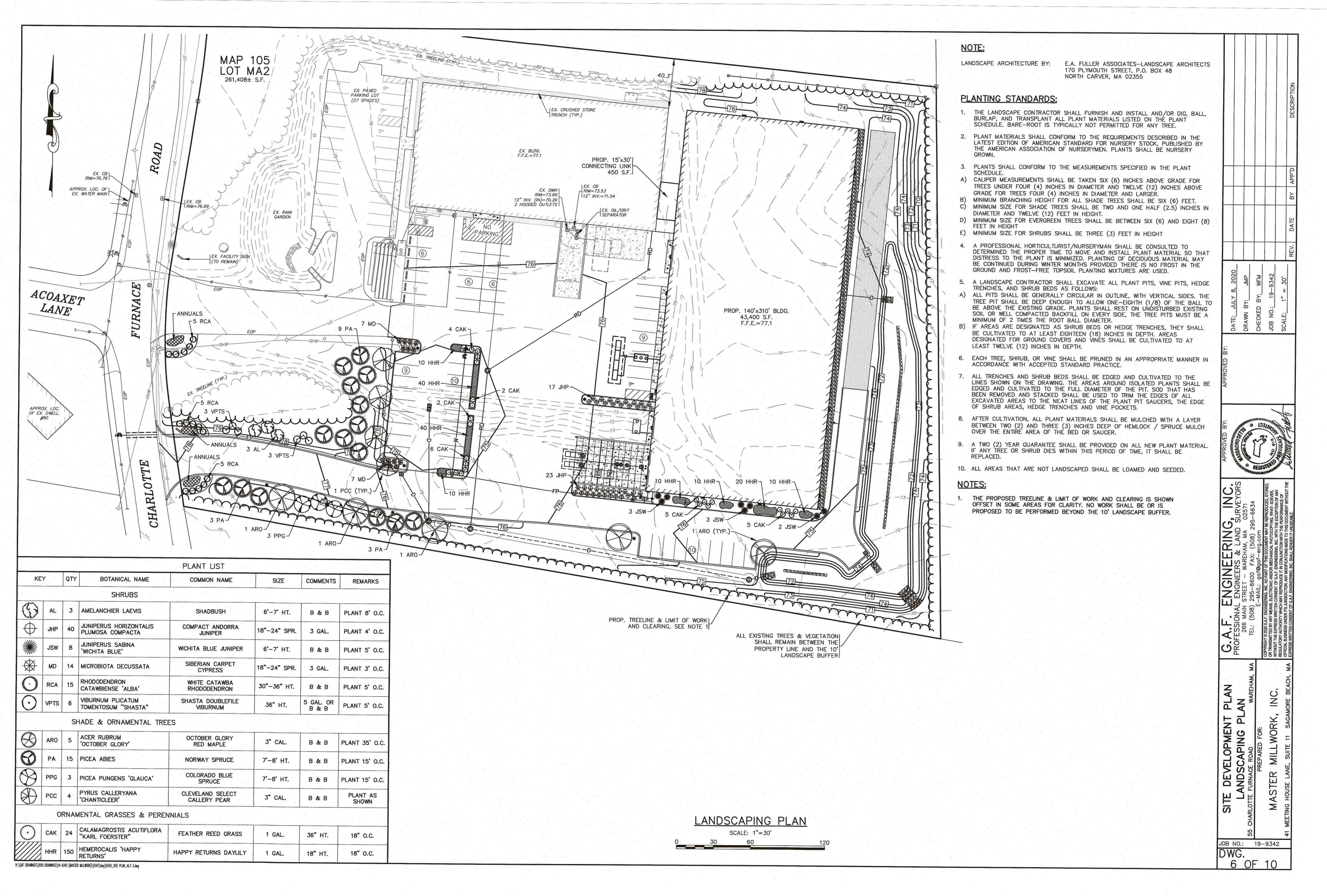
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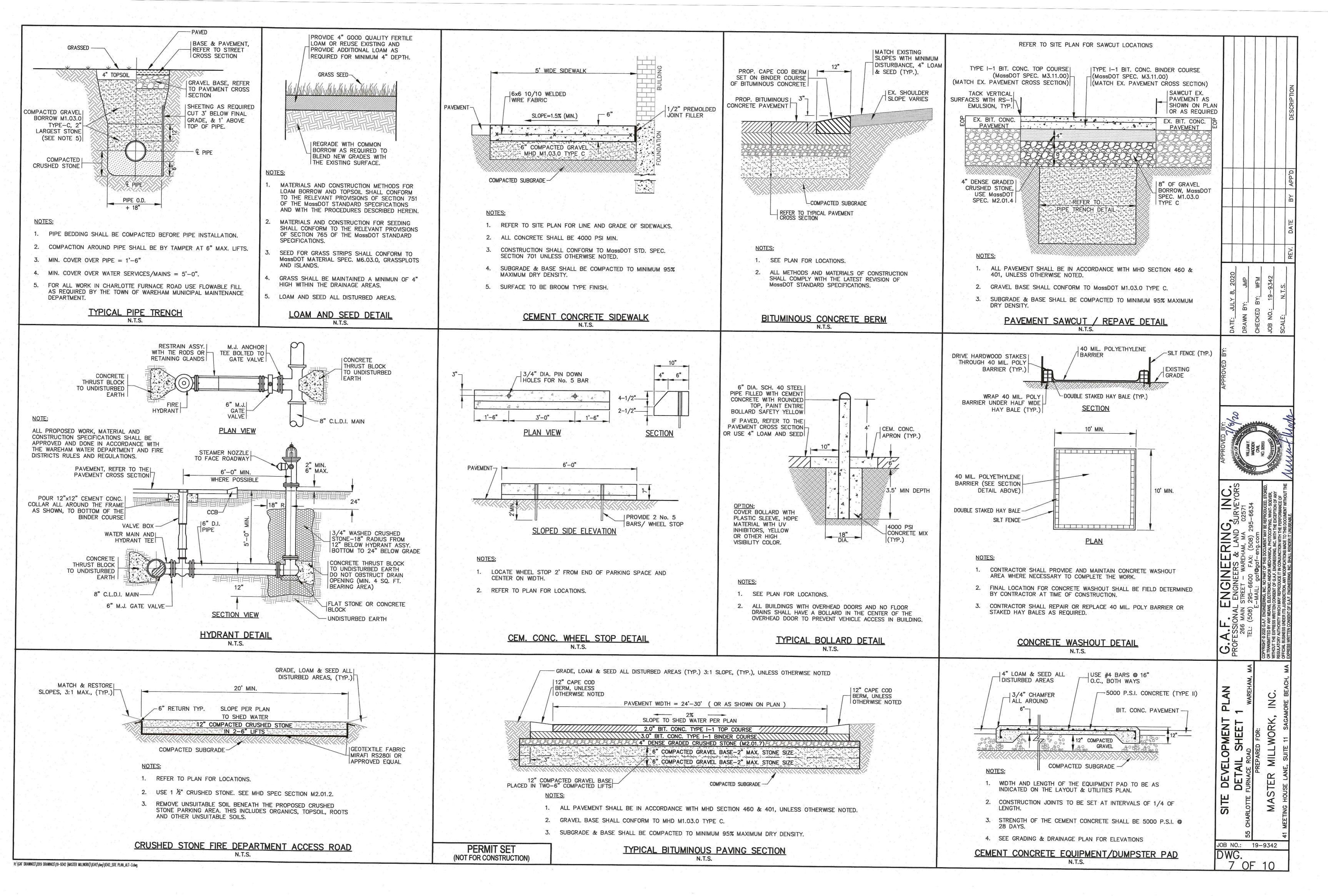


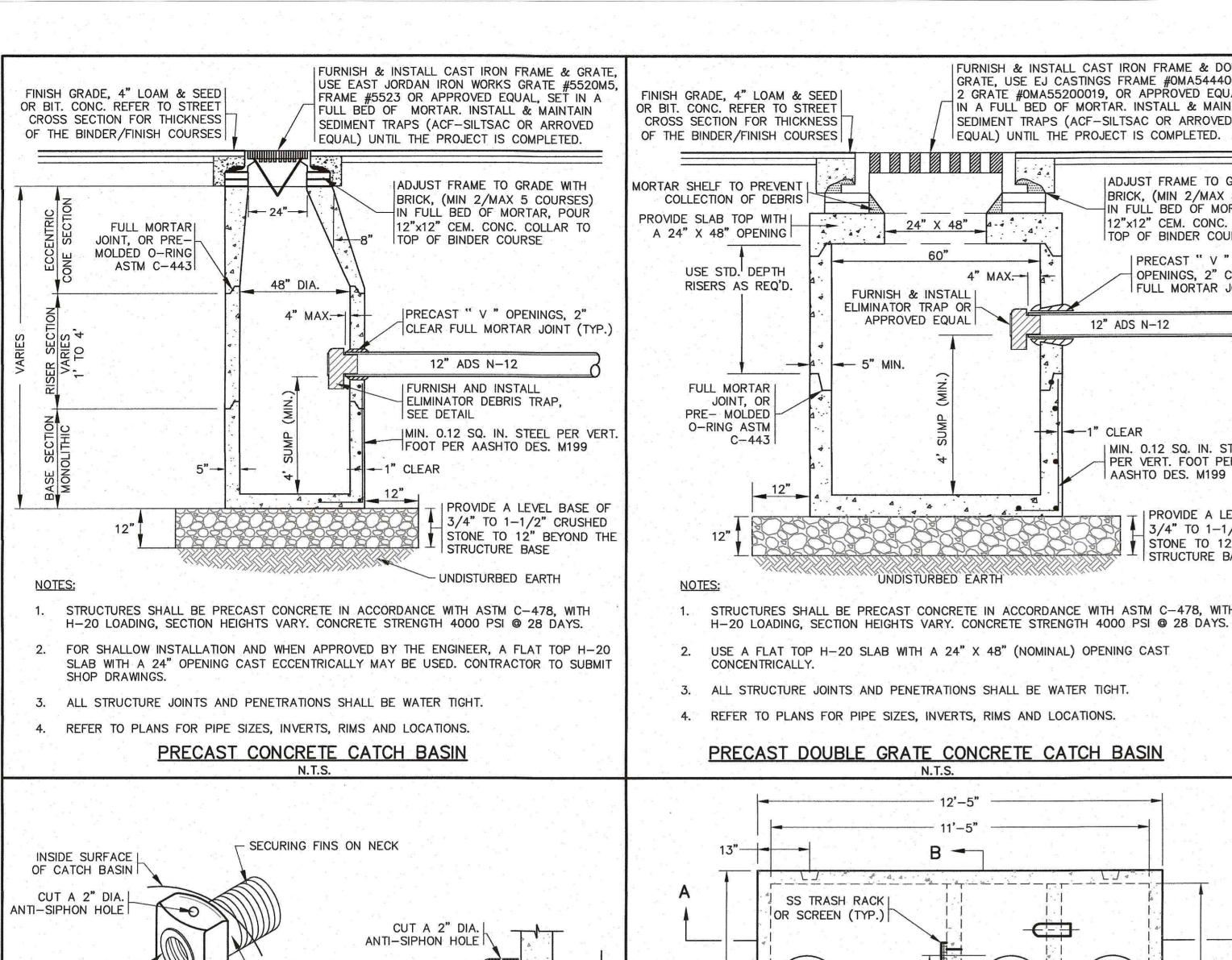










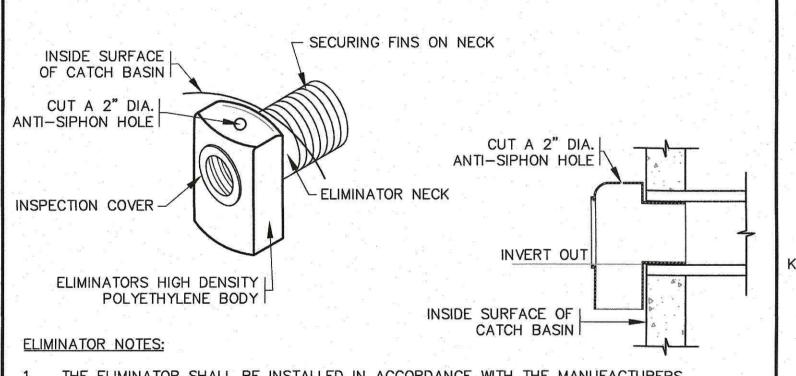


PROVIDE A 12" LEVEL BASE

OF 3/4" TO 1-1/2" CRUSHED

STONE TO 12" BEYOND THE

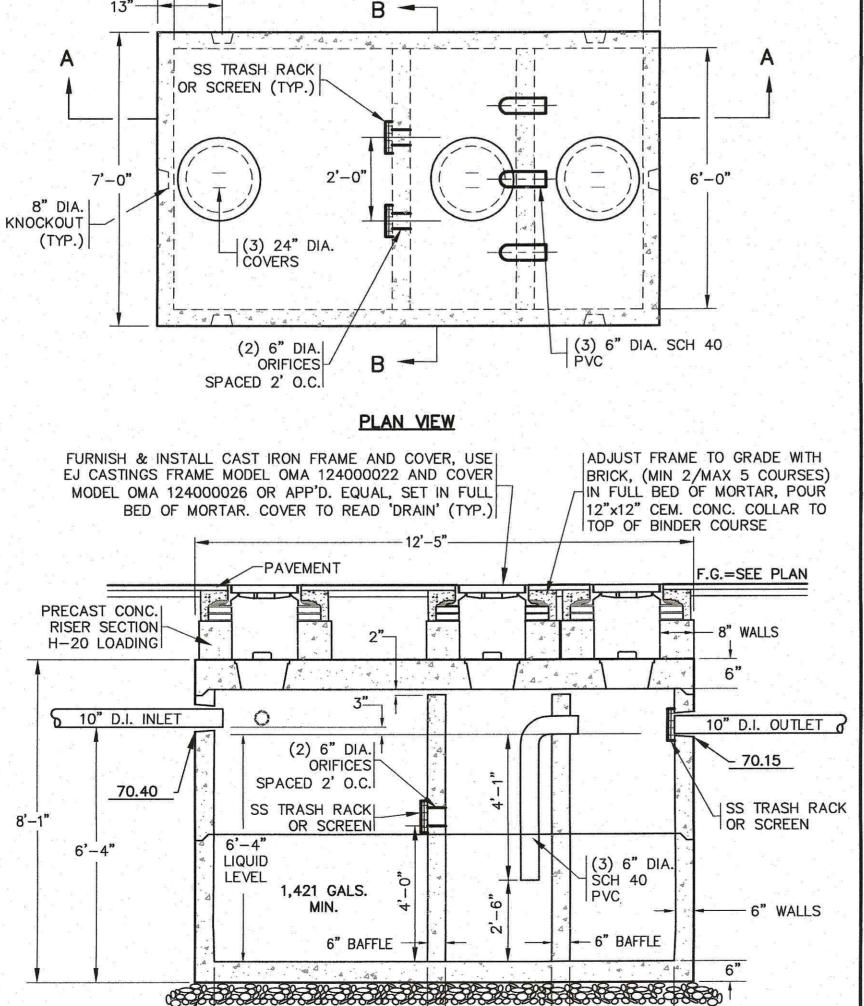
STRUCTURE BASE



- THE ELIMINATOR SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- 2. THE PIPE WHERE THE ELIMINATOR IS INSTALLED SHALL BE CLEANED OF ALL DEBRIS.
- POSITION THE ELIMINATOR INTO THE OPENING OF THE PIPE, ENSURE THE UNIT IS IN THE UPRIGHT POSITION AND APPLY FOWARD PRESSURE UNTIL THE BACK OF THE UNIT IS FLUSH WITH THE INSIDE WALL OF THE BASIN STRUCTURE
- APPLY A LIGHT COATING OF PIPE SOAP TO THE INSPECTION PORT FACE, ALIGN CLEANOUT COVER EARS WITH THE GROOVES IN THE UNITS FACE AND TURN CLOCKWISE TO SECURE COVER.
- HOOD SHALL BE "THE ELIMINATOR" OIL & FLOATING DEBRIS TRAP AS MANUFACTURED BY GROUND WATER RESCUE, INC., QUINCY, MA., TEL. 617-773-1128 ON THE WEB @ WWW.KLEANSTREAM.COM.

#### ELIMINATOR DEBRIS TRAP

- CONCRETE: 5,000 P.S.I MINIMUM STRENGTH @ 28 DAYS, DENSITY 150 PCF.
- CEMENT, PORTLAND TYPE I OR III. ASTM C150-81
- ADMIXTURES, AIR & PLASTICIZERS @ ASTM C233-82.
- REINFORCING ASTM A615 FOR WIRE FABRIC, GRADE 60 BAR.
- DESIGN LOADING AASHTO H-20.
- CONSTRUCTION JOINT-SEALED WITH 1" DIA BUTYL RUBBER OR EQUIVALENT.
- TANK SHALL BE A 3000 GALLON CAPACITY TANK BY SHEA CONCRETE PRODUCTS OR APPROVED EQUAL



SECTION A-A

3000 GAL. OIL/GRIT SEPARATOR DETAIL

FURNISH & INSTALL CAST IRON FRAME & DOUBLE GRATE, USE EJ CASTINGS FRAME #0MA544400012 & 2 GRATE #0MA55200019, OR APPROVED EQUAL, SET IN A FULL BED OF MORTAR. INSTALL & MAINTAIN SEDIMENT TRAPS (ACF-SILTSAC OR ARROVED EQUAL) UNTIL THE PROJECT IS COMPLETED. ADJUST FRAME TO GRADE WITH BRICK, (MIN 2/MAX 5 COURSES) IN FULL BED OF MORTAR, POUR 12"x12" CEM. CONC. COLLAR TO TOP OF BINDER COURSE PRECAST " V " OPENINGS, 2" CLEAR FULL MORTAR JOINT. MIN. 0.12 SQ. IN. STEEL PER VERT. FOOT PER AASHTO DES. M199 PROVIDE A LEVEL BASE OF 3/4" TO 1-1/2" CRUSHED STONE TO 12" BEYOND THE STRUCTURE BASE

STRUCTURES SHALL BE PRECAST CONCRETE IN ACCORDANCE WITH ASTM C-478, WITH

CYLINDER AND INLET INLET PIPE, IF REQUIRED (MULTIPLE INLET PIPES MAY BE ACCOMMODATED) PRECAST "V" OPENINGS, 2" CLEAR, FULL MORTAR JOINT OIL BAFFLE SKIRT-SEPARATION SCREEN PVC HYDRAULIC | SHEAR PLATE SOLIDS STORAGE SUMP PROVIDE A LEVEL BASE OF 3/4" TO 1-1/2" CRUSHED STONE TO 12" BEYOND THE STRUCTURE BASE

REFER TO SPEC FOR MATERIAL GRADATION AMD INSTALLATION.

2. REFER TO PLAN FOR LOCATION, ELEVATIONS AND INVERTS FRAME AND CONTRACTOR TO GROUT COVER TO FINISHED GRADE ADJUST TO FINISH GRADE WITH GRADE RING OR POUR 12"x12" CEMENT CONC. RISER LAID WITH 3/8" COLLAR ALL AROUND THE MORTAR JOINTS AND SET FRAME AS SHOWN, TO TOP IN FULL MORTAR BED OF THE BINDER COURSE **FIBERGLASS** SEPARATION

-OUTLET PIPE

PERMANENT

POOL ELEV.

SCREEN AND SUMP OPENING SEPARATION CYLINDER AND INLET CONTECH FRAME AND COVER TOP SLAB ACCESS (DIAMETER VARIES) FRAME AND COVER PVC HYDRAULIC 48" I.D. MANHOLE SHEAR PLATE STRUCTURE

CENTER OF CDS STRUCTURE

**GENERAL NOTES:** 

- 2. DIMENSIONS MARKED WITH ( ) ARE REFERENCE DIMENSIONS. ACTUAL DIMENSIONS MAY VARY.
- FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTECH STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
- 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- 5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.

CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.

IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING

#### **INSTALLATION NOTES:**

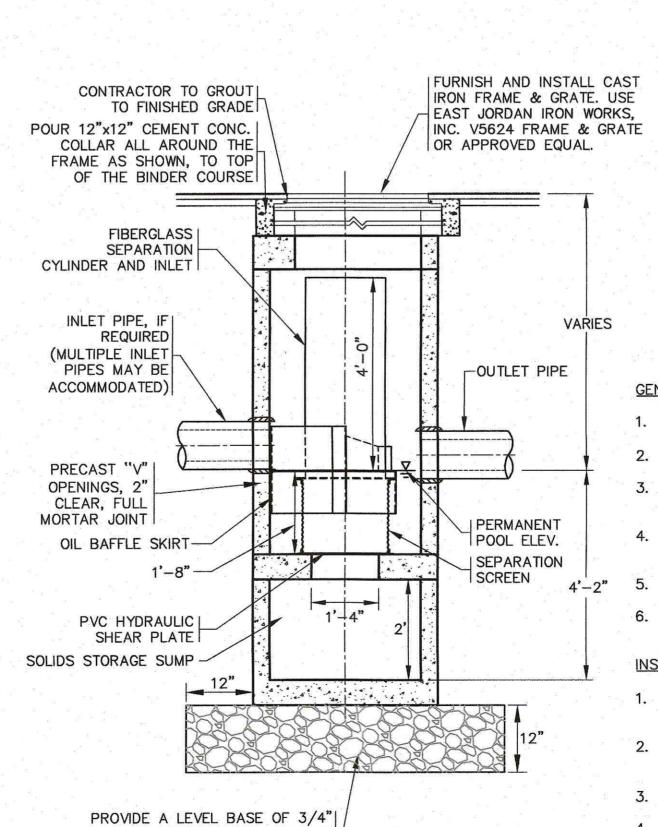
- ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE (LIFTING CLUTCHES PROVIDED).
- 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.
- 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.

### PRECAST CONCRETE WATER QUALITY STRUCTURE-1 (CDS2015-4-C)

REFER TO SPEC FOR MATERIAL GRADATION AMD INSTALLATION.

SECTION A-A

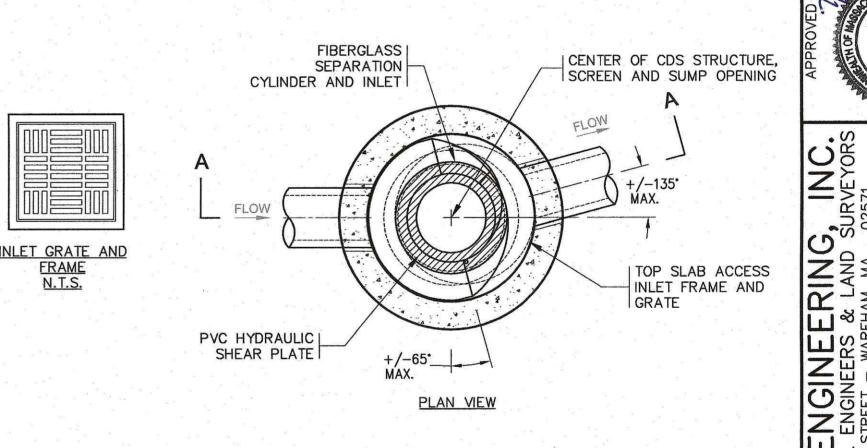
2. REFER TO PLAN FOR LOCATION, ELEVATIONS AND INVERTS



SECTION A-A

TO 1-1/2" CRUSHED STONE TO

12" BEYOND THE STRUCTURE BASE



#### **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 STORMWATER SOLUTIONS REPRESENTATIVE. www.contechstormwater.com
- 4. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
- 4'-2" 5. STRUCTURE AND CASTINGS SHALL MEET AASHTO HS20 LOAD RATING.
  - 6. IF REQUIRED, 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.

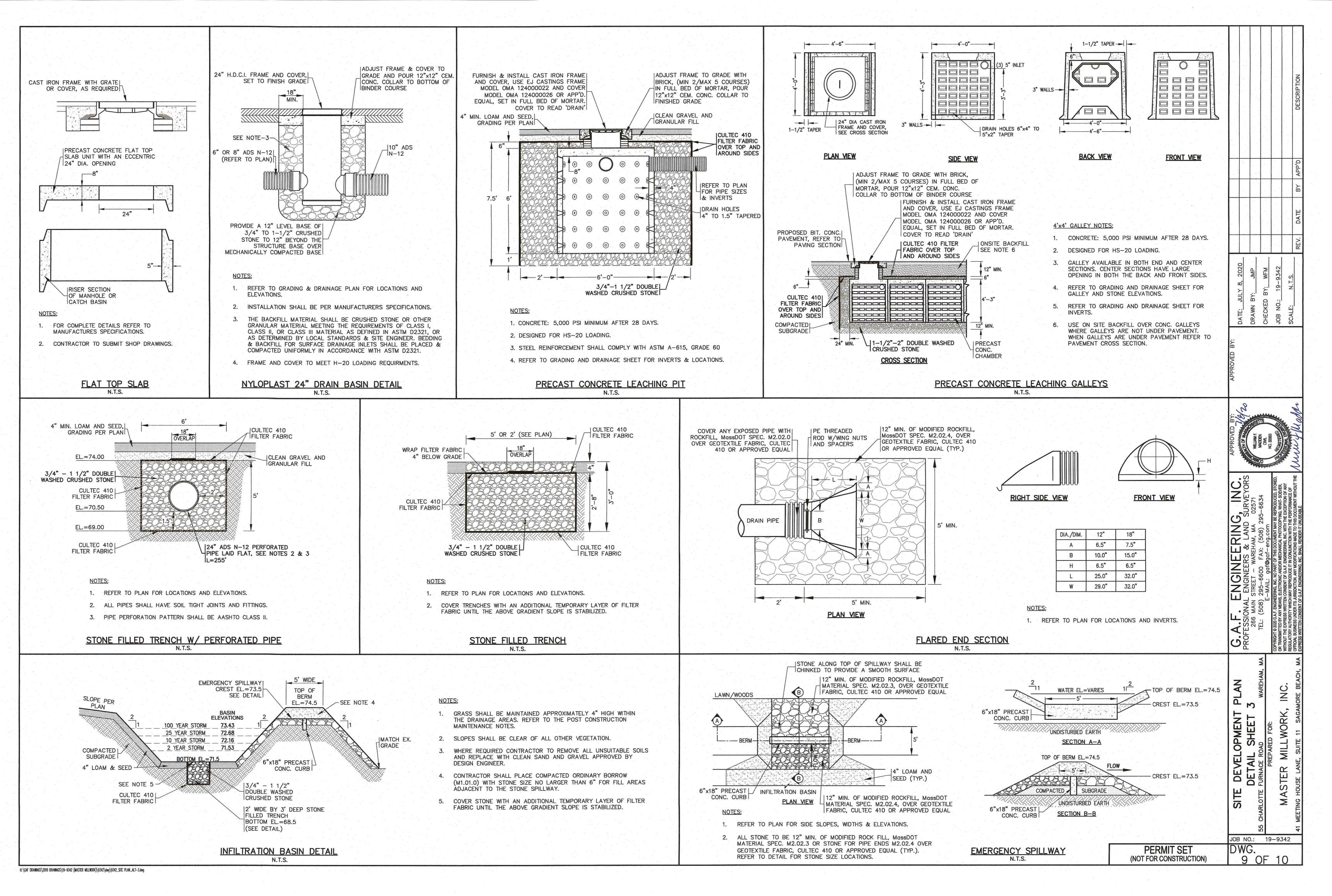
PRECAST CONCRETE WATER QUALITY STRUCTURE-2 (CDS1515-3-C)

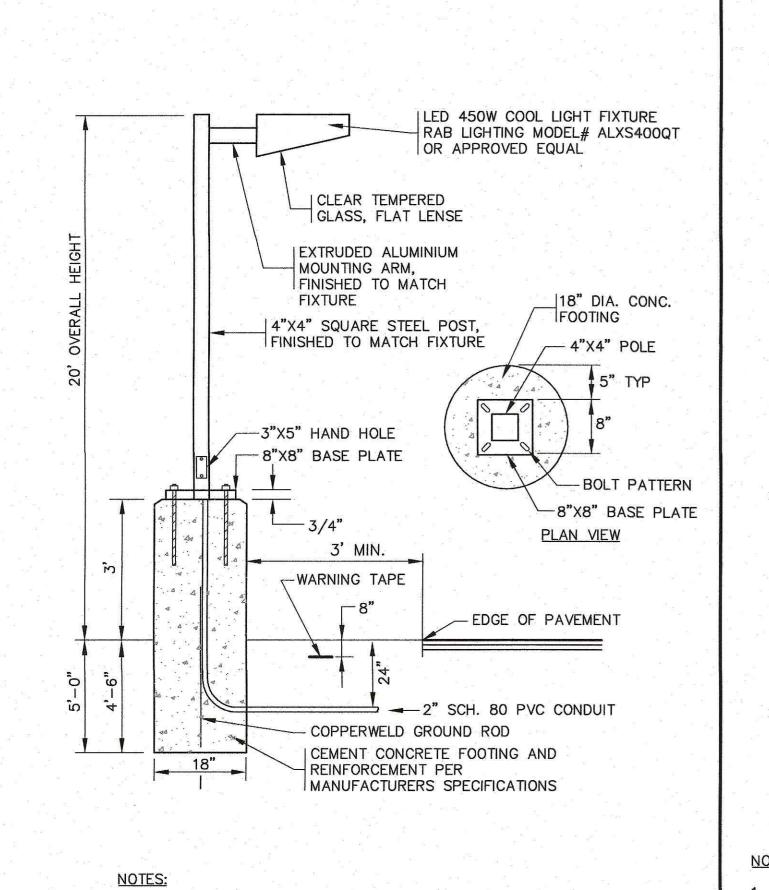
**PERMIT SET** (NOT FOR CONSTRUCTION)

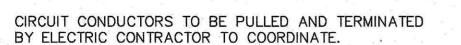
WORK, OPMEN SHEET  $\geq$ JOB NO.: 19-9342 DWG.

8 OF 10

H:\CAF DRAWNGS\2019 DRAWNGS\19-9342 (MASTER MILLWORK)\9342\dwg\9342\_SITE PLAN\_ALT-3.dwg

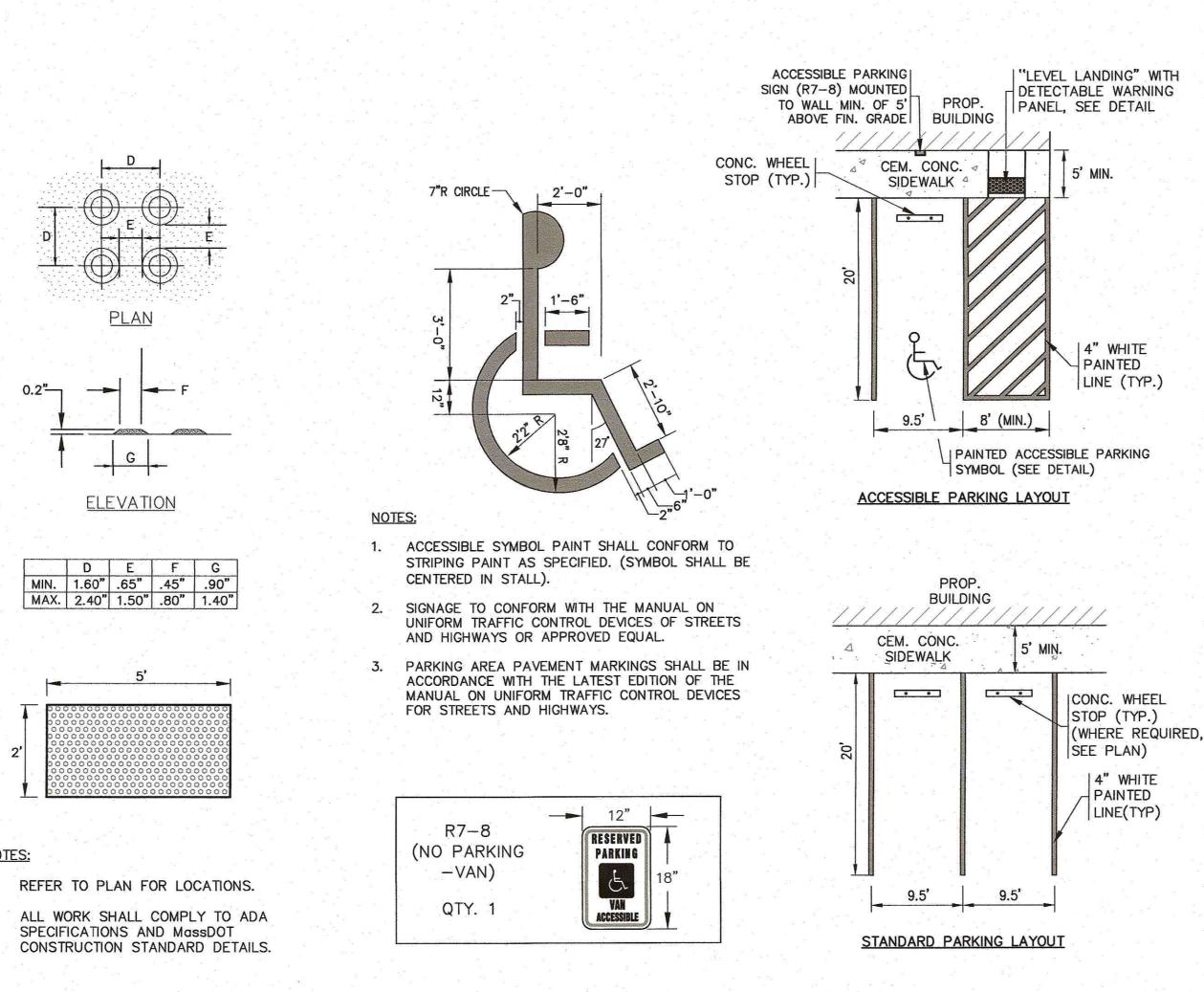






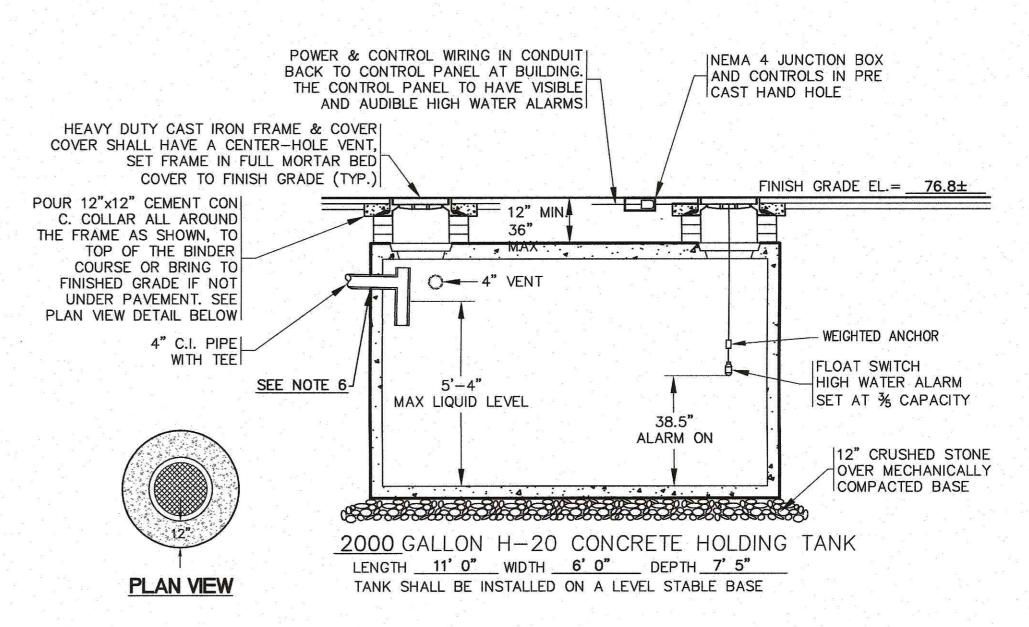
- CONTRACTOR TO COORDINATE WITH OWNER ON FINAL LIGHT FIXTURE SPECIFICATIONS.
- 3. ALL MOUNTING HARDWARE AND INSTALLATION SHALL BE PER MANUFACTURER SPECIFICATIONS.





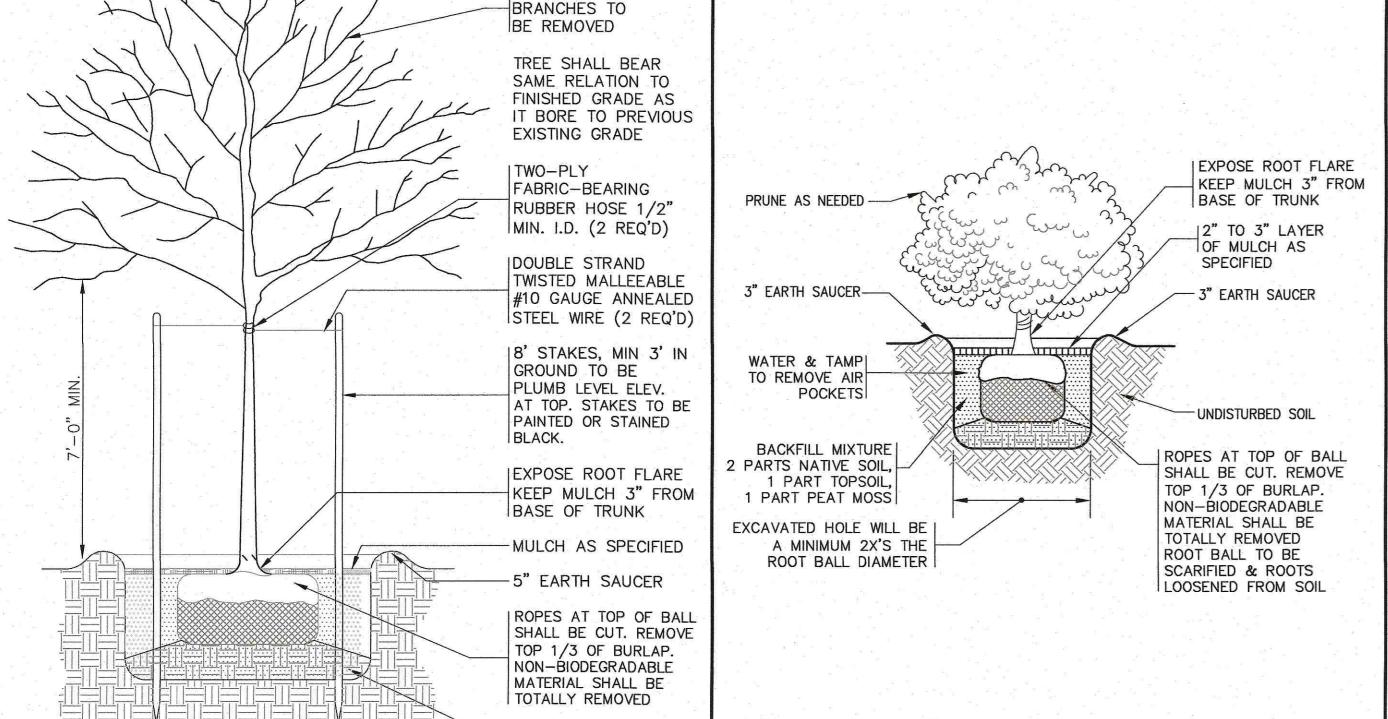
ACCESSIBLE PARKING

PAINT SYMBOL AND SIGN



- TIGHT TANK CONSTRUCTION AND INSTALLATION SHALL CONFORM TO 310 CMR 15.260 AS APPLICABLE FOR CONNECTION TO FLOOR DRAINS. TIGHT TANK SHALL BE WATERPROOF AND WATERTIGHT.
- 2. CONCRETE MINIMUM STRENGTH: 5000 PSI @ 28 DAYS STEEL REINFORCEMENT: ASTM-A-615-68, GRADE 60 DESIGN LOADING: STANDARD UNITS AASHO-H20.
- 3. 310 CMR 15.228: (1) SEPTIC TANK SHALL BE INSTALLED LEVEL AND TRUE TO GRADE ON A LEVEL STABLE BASE THAT HAS BEEN MECHANICALLY COMPACTED AND ON TO WHICH 12" OF CRUSHED STONE HAS BEEN PLACED.
- 4. ALL MOUNTING BRACKETS AND ATTACHING HARDWARE SHALL BE GALVANIZED OR NONCORROSIVE CONSTRUCTION.
- 5. THE PROPOSED 2000 GALLON TIGHT TANK SHALL BE EQUIPPED WITH BOTH AUDIBLE & VISUAL ALARMS, TO WARN WHEN THE TANK IS 3/5 FULL. THE ALARM PANEL SHALL BE MOUNTED IN A READILY VISIBLE LOCATION ON THE BUILDING.
- 6. CONTRACTOR SHALL VERIFY THE BUILDING SEWER INVERT PRIOR TO INSTALLATION OF THE TIGHT TANK. TANK INVERT SHALL BE DETERMINED IN THE FIELD AT TIME OF CONSTRUCTION.
- 7. TIGHT TANK SHALL BE POSTED "NON-HAZARDOUS INDUSTRIAL WASTEWATER"
- FINAL HOLDING TANK SIZE AND SPECIFICATIONS SHALL BE DETERMINED AT THE TIME OF CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH OWNER.

## 2000 GALLON H-20 NON-HAZARDOUS TIGHT TANK



NOTES:

REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

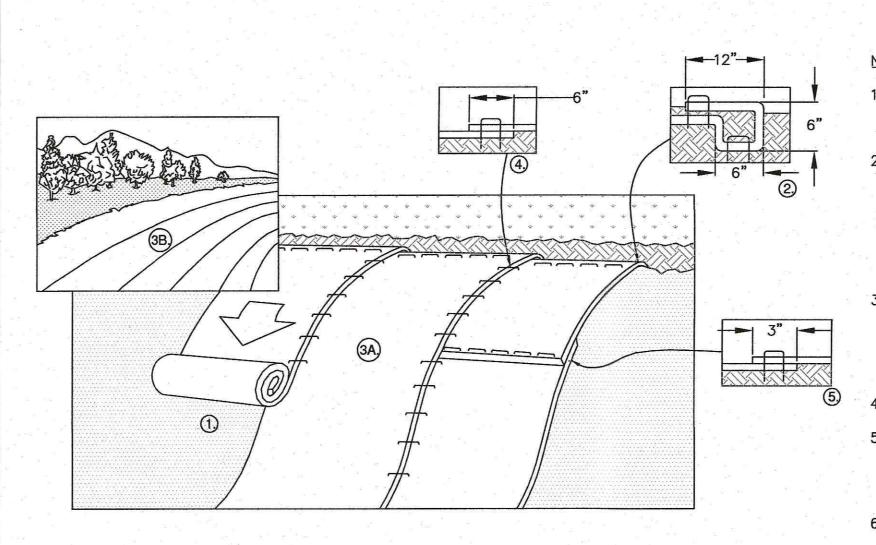
SHRUB PLANTING N.T.S.

ALL DAMAGED

BACKFILL MIXTURE

TRUNCATED DOME

DETECTABLE WARNING PANEL



ACCESSIBLE PARKING AND

STANDARD PARKING LAYOUTS

- PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP'S IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF RECP'S EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP'S WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE RECP's.
- ROLL THE RECP'S (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. RECP'S WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP'S MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
- THE EDGES OF PARALLEL RECP'S MUST BE STAPLED WITH APPROXIMATELY 6" OVERLAP.
- CONSECUTIVE RECP'S SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE RECP'S WIDTH. NOTE: \*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.
- REFER TO NORTH AMERICAN GREEN FOR INSTALLATION METHODS AND STAPLE CONFIGURATION FOR PRODUCT #C125BN.

COPYRIC OR TRAN WITHOU REGULA OFFICIAL Z MILLWORK, EVELOPMENT DE JOB NO.: 19-9342

**PERMIT SET** (NOT FOR CONSTRUCTION)

EROSION CONTROL BLANKET SLOPE DETAIL N.T.S.

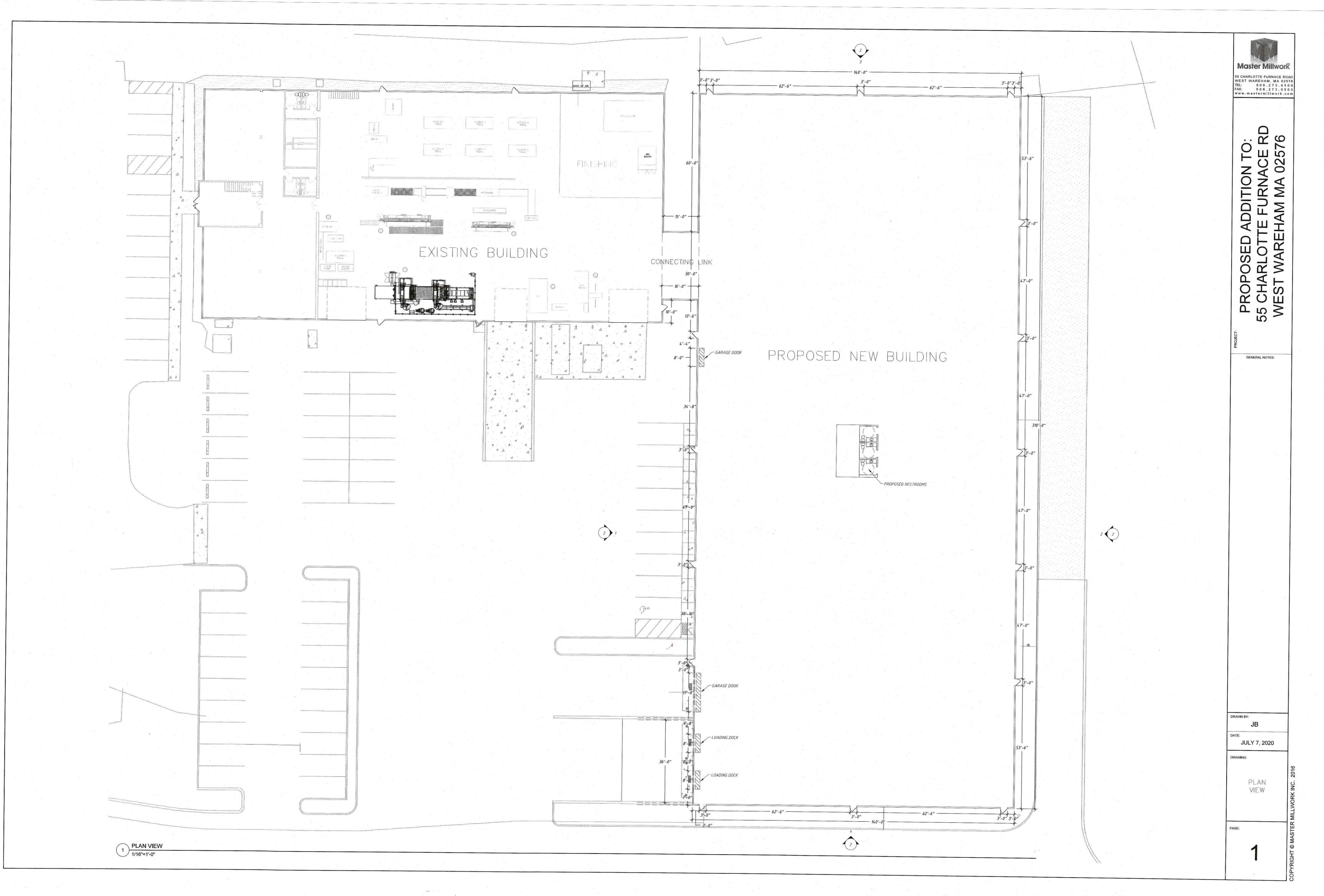
H:\GAF DRAWINGS\2019 DRAWINGS\19-9342 (MASTER MILLWORK)\9342\dwg\9342\_SITE PLAN\_ALT-3.dwg

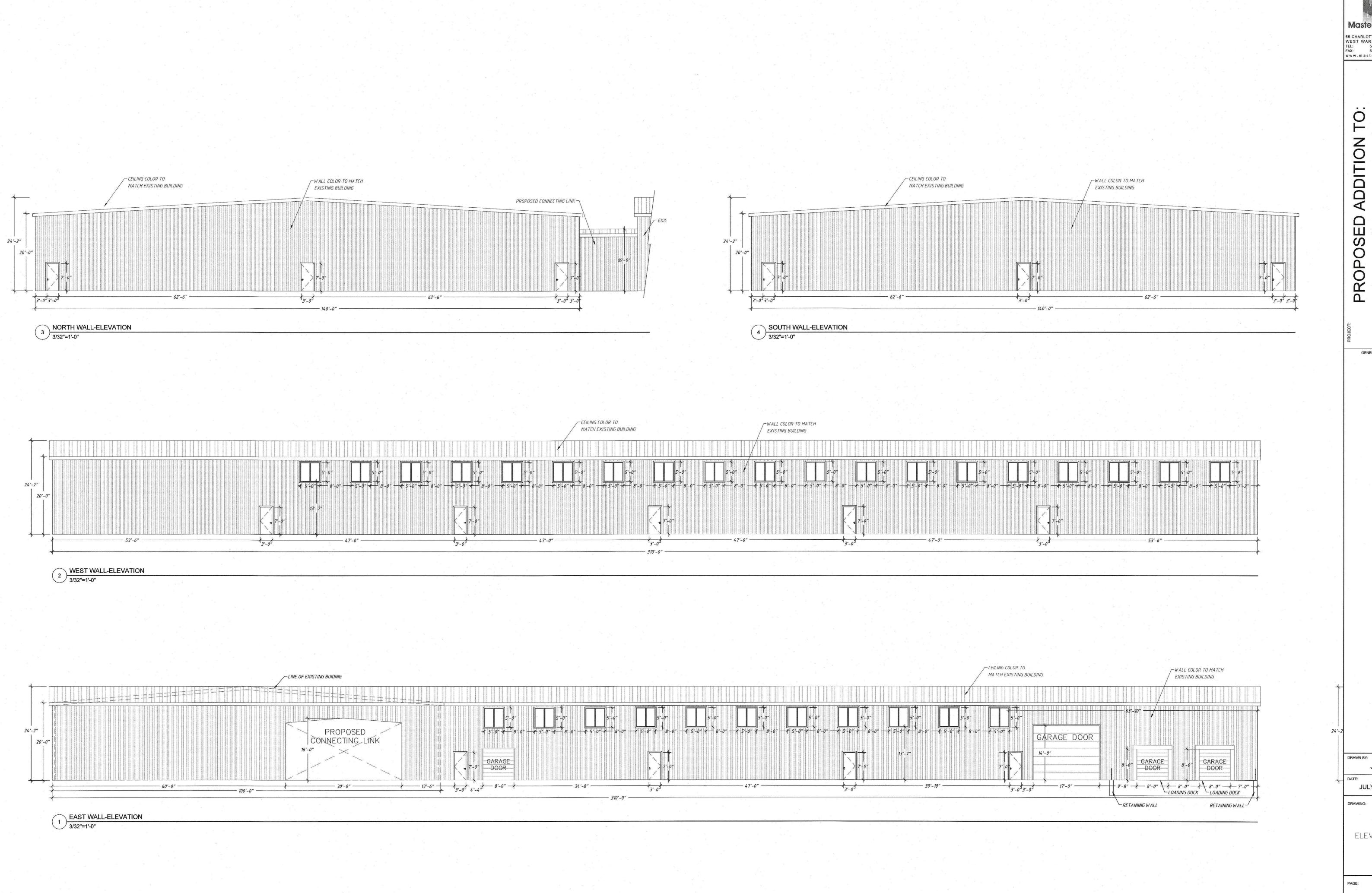
REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

SHADE TREE PLANTING DETAIL

ENGINEERS & LAND SUR

10 OF 10





55 CHARLOTTE FURNACE ROAD WEST WAREHAM, MA 02576 TEL: 508.273.0500 FAX: 508.273.0503 www.mastermillwork.com

PROPOSED ADDITION TO: 55 CHARLOTTE FURNACE RD WEST WAREHAM MA 02576

GENERAL NOTES:

JULY 7, 2020

ELEVATIONS