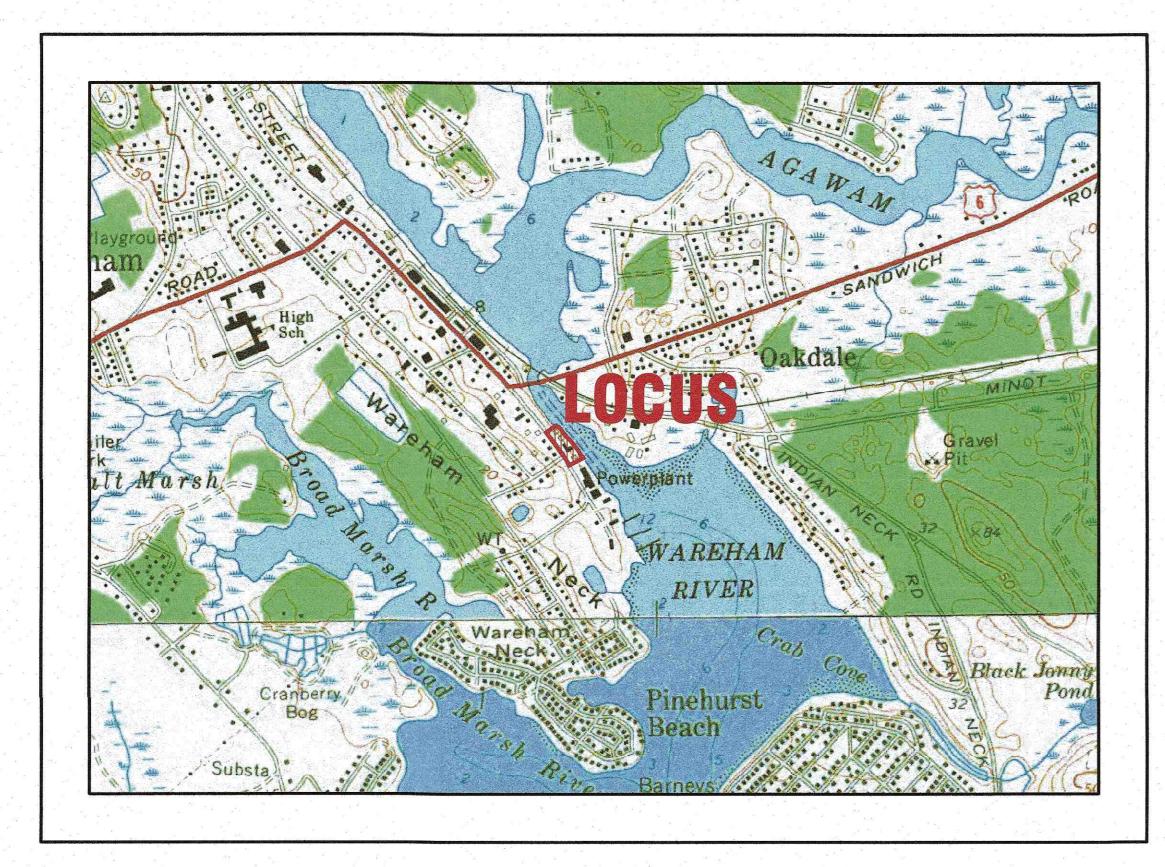
SITE DEVELOPMENT PLAN 59 MAIN STREET WAREHAM, MASSACHUSETTS

OWNER: WARREN QOZB, LLC P.O. BOX 1206

CARVER, MA 02330



- U.S.G.S. LOCUS PLAN -SCALE: 1"=1000'

ZONING DATA TABLE: ALLOWED **PROVIDED**

ZONING TABLE *FRONT SETBACK: 61,187± S.F. 53.5 SIDE SETBACK:
REAR SETBACK:
BUILDING COVERAGE:
IMPERVIOUS SURFACE: 19.5' 17.1%± 62.4%±

PARKING DATA:

(BUSINESS, RETAIL >1000 S.F.):1 SPACE PER 300 S.F. G.F.A. 1200 S.F./300 S.F.=4 SPACES

MARINA: 0.5 SPACE PER SLIP 24 SLIPSx0.5 SPACE=12 SPACES

RESTURANT: 1 SPACE PER 5 SEATS 150 SEATS / 1 PER 5 SEATS=30 SPACES

TOTAL NUMBER OF PARKING SPACES REQUIRED: 46

TOTAL PROVIDED: 46 SPACES



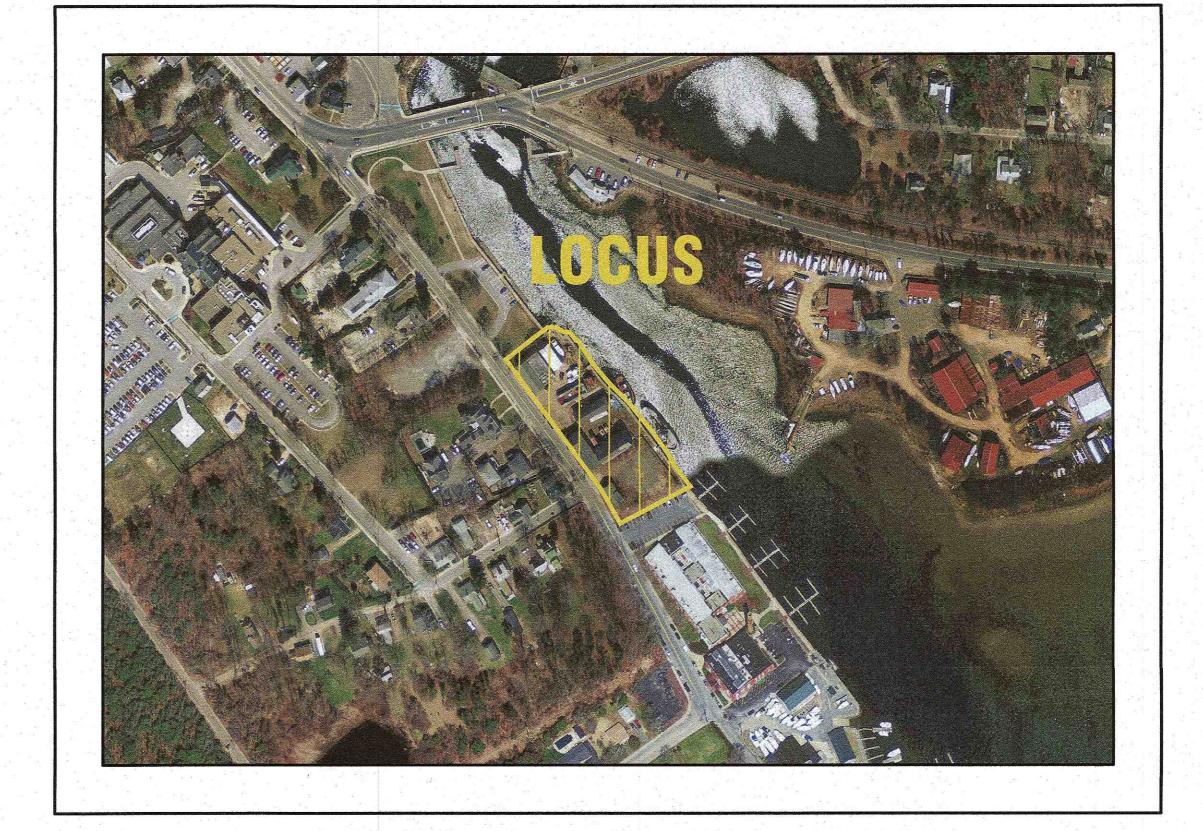
G.A.F. ENGINEERING, INC. PROFESSIONAL ENGINEERS & LAND SURVEYORS

266 MAIN STREET, WAREHAM, MA 02571 TEL: (508) 295-6600 FAX: (508) 295-6634 E-MAIL: info@gafenginc.com

NOVEMBER 22, 2021

APPLICANT: WARREN QOZB, LLC

P.O. BOX 1206 CARVER, MA 02330



- AERIAL OVERVIEW -SCALE: 1"=200'

PLAN INDEX: SHEET NO .:

DESCRIPTION:

COVER SHEET
GENERAL NOTES & LEGEND
EX. CONDITIONS & DEMOLITION
LAYOUT PLAN
UTILITIES PLAN GRADING & DRAINAGE PLAN LANDSCAPING PLAN EROSION CONTROL PLAN DETAIL SHEET 1 DETAIL SHEET 2 DETAIL SHEET 3

FLOOD ZONE DATA:

THE PROJECT IS LOCATED IN FLOOD ZONE AE-16 AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NUMBER 25023C0489L, DATED JULY 6, 2021. THE PROJECT IS ALSO WITHIN THE LIMIT OF MODERATE WAVE ACTION (LIMWA) AREA.

PERMIT SET (NOT FOR CONSTRUCTION)

DEVELOPMENT COVER SHEET

JOB NO.: 20-9438 DWG. 1 OF 11

H:\GAF DRAWINGS\2020 DRAWINGS\20-9438 (DANNY WARREN)\9438\dwg\9438_SITE PLAN_2021_ALT.-1_REV.-4.dwg

ZONING DATA:

ZONE: WAREHAM VILLAGE 1 (WV1)

MINIMUM LOT AREA: 5,000 S.F.

MINIMUM FRONTAGE: 75'
MINIMUM FRONT SETBACK: *

MINIMUM SIDE SETBACK: 10'

MINIMUM REAR SETBACK: 10'

MAXIMUM BUILDING HEIGHT: 40'

MAXIMUM BUILDING COVERAGE: 30%

MAXIMUM IMPERVIOUS SURFACE: 70%

LANDSCAPE BUFFER: AS SHOWN ON PLANS

*THE FRONT SETBACKS IN VILLAGE DISTRICTS

SHALL BE THE AVERAGE SETBACKS OF FIVE (5) RESIDENTIAL STRUCTURES ON EITHER SIDE OF THE SUBJECT PROPERTY.

GENERAL NOTES:

- . 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.
- 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 SEPTEMBER OF 2019.
- 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.
- THE CONTRACTOR SHALL FIELD VERIFY, PRIOR TO CONSTRUCTION ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND POINTS OF INTERCONNECTION.
- 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:

- 1. 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.
- 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.
- 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. ALL SEWER AND PLUMBING WORK SHALL CONFORM WITH 248 CMR 10.00 UNIFORM STATE PLUMBING CODE AND THE TOWN OF WAREHAM SEWER DEPARTMENTS SPECIFICATIONS.
- 13. ALL METHODS AND MATERIALS SHALL CONFORM WITH MassDOT STANDARDS AND SPECIFICATIONS, AND THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT
- 14. ALL UTILITY INSTALLATIONS SHALL BE IN CONFORMANCE WITH ALL APPLICABLE TOWN, STATE AND FEDERAL REQUIREMENTS & REGULATIONS.
- 15. DEWATERING IF REQUIRED SHALL BE DIRECTED TO A 10 MIN. SQUARE OF HAYBALES OR A DIRTRAG. 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.
- 16. ALL PROPOSED RAMPS & LANDINGS SHALL BE PROVIDED WITH HANDRAILS PER ADA AND BUILDING CODE REGULATIONS. ALL PROPOSED HANDICAP RAMPS & LANDINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL ADA REGULATIONS.

EROSION CONTROL NOTES:

- I. 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
- 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.

DISTURBED BY GRADING OPERATIONS FOR A PERIOD OF THIRTY DAYS OR MORE.

VIOLATIONS OF EROSION CONTROL REGULATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ANY FINES LEVIED AGAINST THE SITE FOR

CONTRACTOR SHALL PROVIDE TEMPORARY GROUND COVER FOR ALL AREAS WITH EXPOSED SOIL WHICH WILL NOT BE

- 9. IF WORK ON THIS PROJECT IS SUSPENDED FOR ANY REASON, THE CONTRACTOR SHALL MAINTAIN THE SOIL EROSION
- 10. SPRINKLE OR APPLY DUST SUPPRESSERS TO MINIMIZE DUST AT THE CONSTRUCTION SITE. MAINTAIN DUST CONTROL

AND SEDIMENTATION CONTROL FACILITIES IN GOOD CONDITION DURING THE SUSPENSION OF WORK.

- OF WAREHAM CONSERVATION COMMISSION.
- 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

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.

- 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.
- EROSION CONTROL SHALL BE PLACED ALONG THE LIMITS OF WORK WHERE SHOWN ON THE PLAN.
- 3. 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.
- THE LEACHING CHAMBERS 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.
- 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.

- 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).
- TRENCH DRAINS 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 ACCORDINATE 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 HAZARDOUS WASTE REGULATIONS, 310 CMR 30.00 AND HANDLED AS HAZARDOUS WASTE.
- SEDIMENT TRAP WITH 4' SUMP STRUCTURES 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 ACCORDINATE 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.
- LEACHING CHAMBERS SHALL BE INSPECTED AFTER EVERY MAJOR STORM EVENT IN THE FIRST FEW MONTHS AFTER CONSTRUCTION TO ENSURE PROPER STABILIZATION AND FUNCTION. THEREAFTER, THE LEACHING CHAMBERS SHALL BE INSPECTED AT LEAST ONCE PER YEAR. WATER DEPTH IN THE LEACHING CHAMBERS 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.
- INSPECT POP-UP DRAINAGE EMITTERS DURING AND 24 HOURS AFTER ALL MAJOR STORM EVENTS. KEEP POP-UP DRAINAGE EMITTERS FREE AND CLEAR FROM BUILD UP OF DEBRIS ON THE LID. REMOVE SNOW WHEN REQUIRED. INSPECT THE POP-UP DRAINAGE EMITTER LID MONTHLY. REPAIR OR REPLACE AS NEEDED.

DRAINAGE INSTALLATION NOTES:

- 1. 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.
- 2. ALL ROOF DRAIN PIPES, UNLESS OTHERWISE NOTED, ARE TO BE 4" ADS N-12 PIPE WITH SOIL TIGHT
- JOINTS AND FITTINGS. MINIMUM SLOPE TO BE 1.00%. REFER TO PLAN FOR LOCATION. MINIMUM COVER ON PIPES SHALL NOT BE LESS THAN 1.5 FEET, UNLESS OTHERWISE NOTED ON THE PLAN.
- 4. WHERE REQUIRED ALL PIPE PERFORATIONS SHALL BE AASHTO CLASS II.
- ALL WORK AND MATERIAL SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWN OF WAREHAM MUNICIPAL MAINTENANCE DEPARTMENT.
- WHERE REQUIRED CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.

WATER INSTALLATION NOTES:

- 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 FLUSHED, 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.
- 4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE THE INSTALLATION OF THE WATER SERVICE.
- 5. 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.
- 6. WATER MAIN/SERVICE SHALL BE INSTALLED A MINIMUM OF 1' BELOW ALL PROPOSED DRAINAGE LINES.

DEMOLITION NOTES:

- 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 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.
- 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.
- ENSURE THE SAFE PASSAGE OF PERSONS AROUND THE AREA OF DEMOLITION. CONDUCT OPERATIONS TO PREVENT INJURY TO ADJACENT BUILDINGS, STRUCTURES, OTHER FACILITIES AND PERSONS.
- THE CONTRACTOR SHALL PROMPTLY REPAIR DAMAGES CAUSED BY DEMOLITION OPERATIONS TO ADJACENT FACILITIES AT NO COST TO THE OWNER.
- ANY DAMAGE TO PUBLIC WAYS DURING DEMOLITION AND/OR CONSTRUCTION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S AND/OR APPLICANTS EXPENSE TO THE SATISFACTION OF THE TOWN OF WAREHAM DIRECTOR OF MUNICIPAL MAINTENANCE.

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UNDERGROUND ELECTIC

VERTICAL GRANITE CURB

WATER GATE, WATER VALVE

WATER QUALITY STRUCTURE

TOP OF CURB

TOP OF WALL

UTILITY POLE

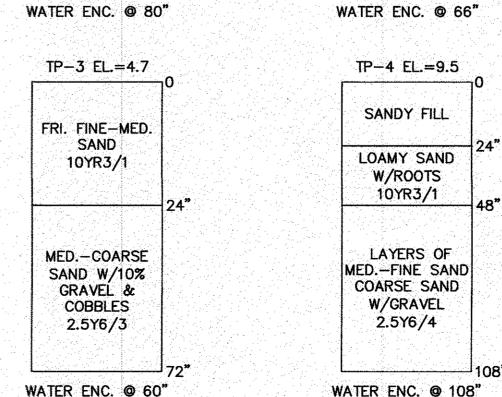
STATION

TYPICAL

TEST PIT DATA DATE OF TESTING: NOVEMBER 30, 2021

PERFORMED BY: BRIAN GRADY, G.A.F. ENGINEERING, INC. REFER TO EXISTING CONDITIONS & DEMOLITION PLAN FOR TEST PIT LOCATIONS TP-1 EL.=6.5 TP-2 EL.=4.9 SANDY FILL. SANDY FILL ASPHALT & CONC. DEBRIS ORGANIC FRI. FINE-MED. LOAMY SAND SAND 10YR2/2 10YR3/1 FINE SAND 2.5Y6/4 MED.-COARSE SAND W/10% MED.-COARSE GRAVEL & SAND W/5% COBBLES GRAVEL & 2.5Y6/3 COBBLES 2.5Y6/3





WHERE REQUIRED THE CONTRACTOR TO REMOVE ALL UNSUITABLE SOILS AND REPLACE WITH CLEAN SAND AND GRAVEL APPROVED BY DESIGN ENGINEER.

SEE PLANS FOR DEPTHS AND LOCATIONS.

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NOTES: 1. CONTRACTOR SHALL PROVIDE AND MAINTAIN DOUBLE STAKED HAY BALES WITH SILT FENCE EROSION CONTROL BARRIER AS SHOWN ON THE PLANS. EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL VEGETATION IS ESTABLISHED. CONTRACTOR SHALL CONFIRM LOCATION AND CONDITION OF EXISTING WATER METER PIT AND COORDINATE WITH THE TOWN OF WAREHAM WATER DEPARTMENT PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROTECT EXISTING WATER METER PIT DURING CONSTRUCTION. EXISTING CATCH BASINS SHALL HAVE A TEMPORARY SILT SACK OR AN APPROVED EQUAL INSTALLED WITHIN PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REMOVE AND DISPOSE OF THE SILT SACKS AT THE COMPLETION OF CONSTRUCTION. CONTRACTOR SHALL CONFIRM THE LOCATIONS OF ALL EXISTING ABOVE OR UNDERGROUND UTILITIES, INCLUDING WATER, SEWER, GAS AND ELECTRIC. ALL EXISTING UTILITIES SHALL BE DISCONNECTED AND REMOVED FROM THE SITE. CONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE UTILITY COMPANY PRIOR TO CONSTRUCTION. 5. ALL DEBRIS FROM DEMOLITION SHALL BE REMOVED FROM THE SITE AND NOT STOCKPILED. 6. ANY EXCAVATION/REMOVAL OF EXISTING FEATURES BELOW ADJACENT GRADE SHALL BE REFILLED WITH STRUCTURAL FILL AND COMPACTED. WAREHAM PILE (TYP.) BENCHMARK: D.H. IN SIDEWALK EX. WOOD | TOP OF EL.=5.27 (NAVD-88) PILE (TYP.) COASTAL BANK (GRANITE) EX. SHEET PILE BULKHEAD FROM THE BESSE PARK AS-BUILT PLAN COASTAL BANK EX. CONC. WALK 4 EX. CONC. WALK 5x23 EX. STONE EX. DOCK SIDE UTILITY BOX (TYP.) EX. BOLLARD $\prod(TYP.)$ (IPROP. EROSION CONTROL TBARRIER & LIMITS OF WORK CONG WALK TO REMAIN 0 0 0 PROP. EROSION CONTROLY BARRIER & LIMITS OF WORK HISTORIC M.H.W. G.A.F. ENGINEERS & LAND SURVEYORS 266 MAIN STREET - WAREHAM, MA 02571 IR&D EX. STONE AS NEEDED IR&D EX. CEM. HISTORIC M.H.W. MAP 46 LOT 1006 R&D EX. BOLLARDS AS INTEREST. NEEDED, COORD. WITH OWNER PROTECT EX. CONC. RET. WALL DURING CONSTRUCTION 'BRITISH LANDING' PROTECT EX. SIDEWALK DURING CONSTRUCTION, CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED SECTIONS 14" DOUBLE MAP 47 INTERIOR LOT JPROP. EROSION CONTROL IBARRIER & LIMITS OF WORK MAPLE LINE (TYP.) LOTS 1124, 12" MAPLE 1125 & 1126 61,187 SQ.FT.± 11x2 11x3 LOT 1126 EX. WATER METER PIT | RIM EL = 6.86 | SEE NOTE-2 MAP 47 / LOT 1127 N/F TOWN OF WAREHAM 'BESSE PARK' LOT 1124 PROP. EROSION CONTROLI BARRIER & LIMITS OF WORK LOT 1125 JR&D EX. | PAVED APRON JR&D EX. / PAVED APRON 100' WETLANDS | BUFFER ZONE EX. GUY WIRE TO BE RELOCATED, CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY -SAWCUT (TYP.) INTERIOR LOT LINE (TYP.) APPROX. LOC. OF EX. 2" WATER SERVICE EX. CONCS SIDEWALK EX. PAVED SITE DEVELOPMENT PLAN CONDITIONS & DEMOLITION STREET WAREHAM, 1 - SEE NOTE-3 EX. CB-2 (LEACHING BASIN) RIM=10.76 2 UP #14-5 12" RCP -N21°55'40"W APPROX. LOC. OF EX. 12" INV.=9.06 12" A.C. WATER MAIN EX. CB-3 RIM=9.39 EX. PAVED -SEE NOTE-3 12" INV.=5.96 MAIN STREET QOZB, UP NO # EXE CONC SIDEWALK \|S74*32'00"W |4.03' EX. SMH-2 IP FND. RIM=9.24 WARREN CB W/DH FND 10" INV.=-2.85 APPROX. LOC. OF EX. APPROX. LOC. OF L EX. CONČ. SIDEWALK 8" C.I. WATER MAIN ∐N14*28'00"W ີ 59.33**'** 200' RIVERFRONT AREA ZONE AE-16 SHADED ZONE X LIMWA LINE-12" INV. INCB-A)=7.85 12" INV. OUT=7.90 EX. CONDITIONS & DEMOLITION EX. CB-1 RIM=10.63 EX. SMH-1 RIM=11.10 12" INV. IN(CB-2)=8.83 12" INV. IN(CB-B)=8.23 12" INV. OUT=8.33 10" INV.=-1.91 SCALE: 1" = 20'APPROX. LOC. OF EX. JOB NO.: 20-9438 APPROX. LOC. OF EX. 10" C.I. WATER MAIN EX. CB-A RIM=13.08 DWG. PERMIT SET 12" INV.=9.28 3 OF 11 (NOT FOR CONSTRUCTION) H:\GAF DRAWNGS\2020 DRAWNGS\20-9438 (DANNY WARREN)\9438\dmg\9438_SITE PLAN_2021_ALT.-1_REV.-4.dmg

NOTES: REFER TO ARCHITECTURAL PLANS BY OTHERS FOR COMPLETE DIMENSIONS, CONSTRUCTION SPECIFICATIONS AND DETAILS OF THE PROPOSED BUILDING AND MARINA OFFICE & PAVILION. CONTRACTOR SHALL CONFIRM FINISHED FLOOR ELEVATION WITH OWNER AND ARCHITECT PRIOR TO CONSTRUCTION. ALL CONSTRUCTION SHALL COMPLY WITH ALL ASCE 24, MASSACHUSETTS AND INTERNATIONAL BUILDING CODE REQUIREMENTS, AS APPLICABLE FOR CONSTRUCTION IN FLOOD ZONES. REFER TO ARCHITECTURAL & STRUCTURAL PLANS BY OTHERS. 2. REFER TO ARCHITECTURAL PLANS BY OTHERS FOR ALL PROPOSED HANDICAP RAMPS & LANDINGS DIMENSIONS. CONSTRUCTION SPECIFICATIONS AND DETAILS. ALL PROPOSED RAMPS & LANDINGS SHALL BE PROVIDED WITH HANDRAILS PER ADA AND BUILDING CODE REGULATIONS. ALL PROPOSED HANDICAP RAMPS & LANDINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL ADA REGULATIONS, 3. REFER TO PLANS BY OTHERS FOR COMPLETE DIMENSIONS, CONSTRUCTION SPECIFICATIONS AND DETAILS OF THE PROPOSED 8'x40' CONEX BOX. ALL CONSTRUCTION SHALL COMPLY WITH ALL ASCE 24, MASSACHUSETTS AND INTERNATIONAL BUILDING CODE REQUIREMENTS, AS APPLICABLE FOR CONSTRUCTION IN FLOOD ZONES. 4. SITE CONTRACTOR SHALL COORDINATE WITH OWNER FOR FINAL DESIGN OF THE PROPOSED GRANITE WALL/EDGING AND GRANITE STEP. PROVIDE HANDRAILS ALONG THE ENTIRE LENGTH OF THE PROPOSED WALL. HANDRAILS SHALL BE DESIGNED IN ACCORDANCE WITH ALL LOCAL AND STATE BUILDING CODES. 5. THE LAST 6' OF CURBING SHALL BE TRANSITION CURBING. 6. PROPOSED TRANSFORMER ON CEMENT CONCRETE PAD. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL LOCATION. SIZE AND CONFIGURATION OF TRANSFORMER. PROTECT TRANSFORMER WITH BOLLARDS AS SHOWN. TRANSFORMER SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL FLOOD ZONE SPECIFICATIONS AND REGULATIONS, COORDINATE WITH LOCAL UTILITY COMPANY. 7. FOR THE COMPLETE LIGHTING DESIGN REFER TO LIGHTING DESIGN PLANS BY RAB. PROP. 26'x60' MARINA! FUTURE 30'x50' OFFICE & PAVILION, REFER BUILDING TO ARCHITECTURAL PLANS SLAB=6.5± BENCHMARK: PROP. 8'x40' CONEX BOX ON F.F.E.=17.0 D.H. IN SIDEWALK 10'x42'± CEM. CONC. PAD. REFER EL.=5.27 (NAVD-88) PROP. LANDING & STAIRS, REFERL TO PLANS BY OTHERS TO ARCHITECTURAL PLANS SLAB=6.5± EX. SHEET PILE BULKHEAD FROM THE BESSE PARK AS-BUILT PLAN EX. CONC. WALK & EX CONC. WALK PROP. EROSION CONTROLI BARRIER & LIMITS OF WORK PROP. 24'x65' DECK W/PATIO BELOW! REFER TO ARCHITECTURAL PLANS PROP. 5' WIDE PRECAST! DECK F.F.E.=17.1 4'x10' BALCONY, REFER TO EX. CONCRETE RETAINING WALL CONC. PAVER SIDEWALK The second second second PROP. 5' WIDE PRECAST CONC. PAVER SIDEWALK ARCHITECTURAL PLANS HISTORIC HISTORIC ____ GRASS ____ AREA PROP. H.C. PARKING! M.H.W. AREA SIGN (TYP. OF 4) |5' GRASS |STRIP PROP. H.C. RAMP 10' LANDSCAPE F. ENGINEERS & LAND SURVISE MAIN STREET - WAREHAM, MA 02571 (508) 295-6600 F. (508) PROP. CEM. CONC. LOADING AREA, SEE CEM. CONC. LOADING AREA PAD DETAIL 5' GRASS BUFFER ZONE PROP. STAIRS UNDER! DECK, REFER TO ARCHITECTURAL PLANS PROP. 6" PRECAST PROP. LIGHT POLE PROP. 65'±x100'± RESTAURANT TONC. CURB (TYP. TLANDSCAPE AREA & BASE (TYP.) PROP. GRANITE REFER TO ARCHITECTURAL PLANS WALL/EDGING, SEE NOTE 4 F.F.E.=17.1 LOWER FLOOR EL.=8.2± SEE NOTES 1&2 PROP. 6' TALL VINYL FENCE PROP. 8'-3"x20' LANDING, REFER TO ARCHITECTURAL PLANS PROP. STAIRS, REFER TO ARCHITECTURAL J20' LANDSCAPE | F.F.E.=17.1 IBUFFER ZONE PROP. 6" PRECAST! JPROP. 5'x5' CEM. PLANS CONC. CURB (TYP.) CONC. LANDING END 6" VGC `-R=3' JPROP. RAMPS & BEGIN 6" PCC LANDINGS, REFER . TO ARCH. PLANS . PROP. LANDSCAPE AREA R=3' 7 PROP. GRANITEL PROP. 5' WIDE PRECAST L CONC. PAVER SIDEWALK PROP. PRECAST CONC. PAVER ISLAND (TYP.) PROP. BOLLARDI IPROP. LANDING & STAIRS, REFER 100' WETLANDS SIDEWALK TO ARCHITECTURAL PLANS (TYP.) BIT. CONC. BUFFER ZONE PAVEMENT SEE NOTE rR\27 PROP. LANDING, REFER TO JPROP. EROSION CONTROL ARCHITECTURAL PLANS BARRIER & LIMITS OF WORK EX. CONCS SIDEWALK $R=3' (TYP.)_7$ PROP. 10'x25' CEM. CONC. DUMPSTER PAD W/6' TALL VINYL FENCE ENCL., PROP. LANDSCAPE AREA PROVIDE (2) 10' GATES AS SHOWN PROP. 'STOP' SIGN-PROP. 6" VERTICAL LEND 6" VGC, LAST 6' TO PROP. UPLIT SIGN SHALL MEET ALL GRANITE CURB (TYP.) BE TRANSITION CURB DEVELOPMENT LAYOUT PLAN REQUIREMENTS OF SECTION 11 OF THE R=20' J PROP. 6" PRECAST TOWN OF WAREHAM ZONING BYLAW SEE NOTE 6-CONC. CURB (TYP.) SIGN SHALL NOT EXCEED 100 S.F. IPROP. UPLIT SIGN SHALL MEET ALL EX. CONG SIDEWALK FIRST 6' OF PCC TO BE REQUIREMENTS OF SECTION 11 OF THE TRANSITION CURB TOWN OF WAREHAM ZONING BYLAW R=10' - W ISIGN SHALL NOT EXCEED 100 S.F. PROP. 'STOP' SIGN R=20'-EX. CONC. SIDEWALK FIRST 6' OF VERTICAL GRANITE CURB SHALL BE TRANSITION CURBING AT ALL ENTRANCE

200' RIVERFRONT AREA-

LAYOUT PLAN

LIMWA LINE

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JOB NO.: 20-9438

4 OF 11

DWG.

IOPENINGS UNLESS OTHERWISE NOTED

\JPROP. SCORED CEM. CONC.

END VGC AT SCORED CEM. CONC. ISLAND

PROP. 12'± OF 6" VGC SET FLUSH WITH PAVEMENT.

ISLAND, SEE DETAIL

PERMIT SET

(NOT FOR CONSTRUCTION)

ZONE AE-16 SHADED ZONE X

NOTES: 1. ALL SEWER WORK SHALL BE DONE IN ACCORDANCE WITH THE TOWN OF WAREHAM SEWER COMMISSIONERS RULES AND REGULATIONS. 2. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY PRIOR TO CONNECTION. 3. REFER TO PAVEMENT SAWCUT/TRENCH REPAIR DETAIL ON SHEET 9. 4. CONTRACTOR SHALL CONFIRM EXISTING SEWER ELEVATIONS PRIOR TO CONSTRUCTION. 5. CONTRACTOR TO COORDINATE WITH THE FIRE PROTECTION CONTRACTOR FOR ALL DETAILS ON THE PROPOSED BUILDING FIRE PROTECTION SYSTEM AND THE FIRE DEPARTMENT CONNECTION (F.D.C.). CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR FINAL LOCATION, SIZE AND CONFIGURATION OF TRANSFORMER. PROTECT TRANSFORMER WITH BOLLARDS AS SHOWN. TRANSFORMER SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH ALL FLOOD ZONE SPECIFICATIONS AND REGULATIONS, COORDINATE WITH LOCAL UTILITY COMPANY. THE FINAL LOCATIONS, DEPTH'S AND CONSTRUCTION DETAILS OF THE PROPOSED GAS SERVICE AND GAS METERS SHALL BE DETERMINED BY THE LOCAL GAS COMPANY, CONTRACTOR SHALL COORDINATE WITH LOCAL GAS COMPANY PRIOR TO CONSTRUCTION. AT THE WATER AND SEWER LINE CROSSING ONE FULL LENGTH OF SEWER PIPE SHALL BE 200 PSI PRESSURE RATED PIPE CENTERED OVER WATER LINE MEETING LATEST AWWA STANDARDS AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS. WATER AND SEWER LINES SHALL HAVE A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN PIPES. 9. ALL PROPOSED GREASE TRAPS SHALL BE PROVIDED WITH (2) BOLTED & GASKETED HEAVY DUTY CAST IRON (H.D.C.I.) FRAMES AND COVERS TO GRADE AS SHOWN. ALL COVERS SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS, COVERS TO READ 'SEWER'. FINAL DESIGN OF PROPOSED GREASE TRAPS AND VENTS BY OTHERS, COORDINATE WITH PLUMBING CONTRACTOR. 10. CONTRACTOR SHALL CONFIRM ALL PROPOSED SEWER INVERTS WITH PLUMBING CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY CONFLICTS IN THE FIELD. ALL INTERIOR PLUMBING SHALL BE DESIGNED BY OTHERS. 11. ALL WATER WORK SHALL DONE BE IN ACCORDANCE WITH THE TOWN OF WAREHAM WATER DEPARTMENT RULES AND REGULATIONS. WAREHAM EBB RIVER 12. CONTRACTOR SHALL COORDINATE WITH THE TOWN OF WAREHAM WATER DEPARTMENT PRIOR TO CONNECTION, PROVIDE NEW H.D.C.I. FRAME AND COVER TO FINISHED GRADE, COVER TO READ 'WATER'. ______ IPROP. WATER & ELEC. CONDUITS FOR PROP. FLOATS, SEE CHAP. 91 LICENSE PLANS FOR MORE DETAILS REFER TO ELECTRICAL AND BENCHMARK: PROP. 8'x40' CONEX BOX ON PLUMBING PLANS FOR CONTINUATION D.H. IN SIDEWALK 10'x42'± CEM. CONC. PAD, REFER OF PROPOSED PIPING, COORDINATE EL.=5.27 (NAVD-88) RACK WATER AND ELEC. _ -- -- -- ---TO PLANS BY OTHERS WITH APPROPRIATE SUB CONTRACTOR CONDUITS ON EX. PILES SLAB=6.5± EX. SHEET PILE BULKHEAD FROM THE BESSE PARK AS—BUILT PLAN * EX. CONC. WALK 4 PROP. 24'x65' DECK W/PATIO BELOW REFER TO ARCHITECTURAL PLANS DECK F.F.E.=17.1 • • • PATIO EL.=8.2± HISTORIC_ M.H.W. PROP. 26'x60" MARINA OFFICE & PAVILION, REFER TO ARCHITECTURAL PLANS PROP. 65'±x100'± RESTAURANT SLAB=6.5± REFER TO ARCHITECTURAL PLANS IPROP. 4" SDR 35 PVC VENT PIPE F.F.E.=17.0 REFER TO ELECTRICAL AND F.F.E.=17.1 SEWER SERVICE PROP. 2" H.D.P.E. LOWER FLOOR EL.=8.2± PLUMBING PLANS FOR CONTINUATION S=1.0% MIN. TWATER SERVICE OF PROPOSED PIPING, COORDINATE WITH APPROPRIATE SUB CONTRACTOR S=3% MIN. -[PROP. UNDERGROUND PROP. 2" WATER PROP. 1000 GAL. GREASE TRAP TELECTRIC SERVICE (TYP.) SERVICE RIM=6.0± F.D.C., SEE NOTE 5-4" INV. IN=3.5 PROVIDE H.D.C.I. FRAME AND COVERI 4" INV. OUT=3.25 TO GRADE, SEE NOTE 9 (TYP.) PROVIDE H.D.C.I. FRAME 4" INV.=8.5±,[AND COVER TO GRADE, TERMINATE FIRE PROTECTION C.T.E., SEE NOTE 12 SEE NOTE 10 "x4"x4" WYE SEE NOTE 9 (TYP.) SERVICE 12" ABOVE SLAB, INV.=3. TERMINATE WITH BLIND PROP. 2" H.D.P.E. IFLANGE AND CAP -SEE NOTE 8 RIM=6.4± WATER SERVICE 4" INV. IN=2.50 PROP. GAS SERVICE, 100' WETLANDS 4" INV. IN=2.50 SEE NOTE 7 PROP. 3000 GAL JPROP. GAS METER, 6" INV. OUT=2.40 BUFFER ZONE GREASE TRAP SEE NOTE 7 PROP. 6" SDR 35 PVC SEWER PROP. TRANSFORMER, RIM=11.8± SEE NOTE 6 SERVICE 6" INV.=8.5±, 4" INV. IN=7.80 EX. CONCS SIDEWALK ISEE NOTE 10 4" INV. OUT=7.55 IPROP. GAS SERVICE, INV.=7.4 TSEE NOTE 7 12" RCP -JPROP. 6" C.L.D.I. FIRE APPROX. LOC. OF EX. APPROX. LOC. OF EX. 12" A.C. WATER MAIN IPROTECTION SERVICE EX. CB-3 | RIM=9.39 2" WATER SERVICE MAIN STREET IPROP. 6" SDR 35 PVC 12" INV.=5.96 PROP. UTILITY SERVICE SEWER SERVICE 10" PVC CONNECTION, COORD. WITH LOCAL UTILITY COMPANY UP NO #-

EX. CONC. SIDEWALK

200' RIVERFRONT AREA-

UTILITIES PLAN

SCALE: 1" = 20'

LIMWA LINE-

12" INV. IN(CB-2)=8.83

12" INV. IN(CB-B)=8.23

12" INV. OUT=8.33

RIM = 10.63

SAWCUT/ (TYP.

EX. SMH-1

RIM=11.10

EX. CB-A

RIM=13.08 12" INV.=9.28

10" INV.=-1.91

APPROX. LOC. OF EX.

10" C.I. WATER MAIN

EX. CB-B RIM=12.30

APPROX. LOC. OF EX.

12" D.I. WATER MAIN

12" INV. IN=9.60 12" INV. IN(CB-A)=7.85

12" INV. OUT=7.90

IONAL ENG MAIN STREE (508) 20F

EVELOPMENT
JTILITIES PLAN

 $\bar{\Box}$

DWG.

JOB NO.: 20-9438

S

CONNECT TO EX. WATER MAIN WITH A 12"x12"x6" TAPPING SLEEVE

AND GATE VALVE, PROVIDE VALVE BOX TO FINISHED GRADE

[PROP. DOGHOUSE SMH-1

RIM=SET TO EX. GRADE

10" INV. (EX.)=-1.8±

SEE NOTE 4

PROP. GAS SERVICE CONNECTION,

COORD. WITH LOCAL GAS COMPANY

5" INV. IN (OUTSIDE DROP)= $6.5\pm$

PERMIT SET

(NOT FOR CONSTRUCTION)

EX. CONC. SIDEWALK

EX. SMH-2 RIM=9.24 10" INV.=-2.85

APPROX. LOC. OF EX.

8" C.I. WATER MAIN

ZONE AE-16

SHADED ZONE X

APPROX. LOC. OF

EX. GAS MAIN

PROP. DOGHOUSE SMH-2|

6" INV. IN (OUTSIDE DROP)=1.4±

RIM=SET TO EX. GRADE

10" INV. (EX.)=-2.5± SEE NOTE 4

NOTES: REFER TO ARCHITECTURAL PLANS BY OTHERS FOR COMPLETE DIMENSIONS, CONSTRUCTION SPECIFICATIONS AND DETAILS OF THE PROPOSED BUILDING AND MARINA OFFICE & PAVILION. CONTRACTOR SHALL CONFIRM FINISHED FLOOR ELEVATION WITH OWNER AND ARCHITECT PRIOR TO CONSTRUCTION. ALL CONSTRUCTION SHALL COMPLY WITH ALL ASCE 24, MASSACHUSETTS AND INTERNATIONAL BUILDING CODE REQUIREMENTS, AS APPLICABLE FOR CONSTRUCTION IN FLOOD ZONES. REFER TO ARCHITECTURAL & STRUCTURAL PLANS BY OTHERS. REFER TO ARCHITECTURAL PLANS BY OTHERS FOR ALL PROPOSED HANDICAP RAMPS & LANDINGS DIMENSIONS, CONSTRUCTION SPECIFICATIONS AND DETAILS. ALL PROPOSED RAMPS & LANDINGS SHALL BE PROVIDED WITH HANDRAILS PER ADA AND BUILDING CODE REGULATIONS. ALL PROPOSED HANDICAP RAMPS & LANDINGS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ALL ADA REGULATIONS. PROPOSED 24" DIA. SEDIMENT TRAP WITH 4' SUMP SHALL BE PROVIDED WITH BOLTED & GASKETED H.D.C.I. FRAME AND COVER TO FINISHED GRADE, COVER TO READ 'DRAIN'. ALL COVERS SHALL BE SECURED TO PREVENT UNAUTHORIZED ACCESS. 4. WATER MAIN/SERVICES SHALL BE INSTALLED A MINIMUM OF 18" BELOW ALL PROPOSED DRAINAGE LINES. 5. DOWNPOUTS ON FRONT & BACK OF THE PROPOSED RESTAURANT SHALL BE PIPED TO THE INFILTRATION SYSTEM #2. DOWNSPOUTS FOR THE MARINA OFFICE & PAVILION BUILDING SHALL BE PIPED TO THE INFILTRATION SYSTEM #1. REFER TO ARCHITECTURAL PLANS FOR ALL DOWNSPOUT LOCATIONS AND SIZES. 6. ALL STONE AROUND PRECAST CEMENT CONCRETE LEACHING CHAMBERS SHALL BE 1.5"-2" DOUBLE WASHED CRUSHED STONE. 7. MATCH PROPOSED SIDEWALK INTO EXISTING SIDEWALK LINE AND GRADE. 8. FOR COMPLETE DRAINAGE OPERATION AND MAINTENANCE NOTES SEE SHEET 2. 9. PROVIDE A 6" ADS N-12 PIPE WITH A MINIMUM SLOPE OF 2% FROM THE PROPOSED CHAMBERS TO THE PROPOSED 6" POP-UP DRAINAGE EMITTERS. SEE DRAINAGE EMITTER DETAIL. 10. PROPOSED TRENCH DRAIN SHALL BE PROVIDED WITH HEEL PROOF GRATE. WAREHAM EBB RIVER 11. PROVIDE SOLID COVER OVER TRENCH DRAIN WITHIN THE HANDICAP PARKING STRIPING SPACE AS SHOWN. SOLID COVER SHALL MEET ALL ADA REGULATIONS. IPROP. 7 ROWS OF 4 LOW PROFILE FLOW DIFFUSOR PRECAST CONC. IPROP. 6" POP-UP DRAINAGE CHAMBERS, SYSTEM 2 EMITTER (TYP. FOR 2 PER PROP. 7 ROWS OF 4 LOW PROFILE! FLOW DIFFUSOR PRECAST CONC. CHAMBER SYSTEM) SEE DETAIL PROP. 24" DIA. SEDIMENT BENCHMARK: CHAMBERS, SYSTEM TRAP W/4' SUMP D.H. IN SIDEWALK PROP. 8'x40' CONEX BOX ON 12" INV. IN=4.9 EL.=5.27 (NAVD-88) 10'x42'± CEM. CONC. PAD, REFER PROP. 2.5' OF STONE AROUND! 12" INV. OUT=4.8 IPROP. CLEANOUT ACCESS TO PLANS BY OTHERS CHAMBERS, SEE NOTE 6 COVER TO GRADE (TYP.) -PROP. 5:1 SLOPE SLAB=6.5± EX. SHEET PILE BULKHEAD FROM THE BESSE PARK AS-BUILT PLAN * EX. CONC. WALK SEE NOTE 7 SEE NOTE 7 PROP. 3' OF STONE AROUND! SEE NOTE 9-CHAMBERS, SEE NOTE 6 HISTORIC 6" INV.=3.35 10x5 HISTORIC M.H.W. PROP. 26'x60' MARINA OFFICE & PAVILION, REFER TO ARCHITECTURAL PLANS SLAB=6.5± 4x6 PROP. 24'x65' DECK W/PATIO BELOW REFER TO ARCHITECTURAL PLANS DECK F.F.E.=17.1 PATIO EL.=8.2± 6" INV.=3.8 PROP. EROSION CONTROL BARRIER & LIMITS OF WORK |6" INV.=3.35 PROP. 24" DIA. SEDIMENT F.F.E.=17.0 TRAP W/4' SUMP PROP. 6" ADS 12" INV. IN=4.1 √N-12 (TYP.) 12" INV.=5.0 ¬ 12" INV. OUT=4.0 TW=10x5 BW=7x9 10×7 TC=6x2| BC=5x7 PROP. 65'±x100'± RESTAURANT REFER TO ARCHITECTURAL PLANS /F.F.E.=17.1 LOWER FLOOR EL.=8.2± TC=6x45| BC=5x95| TC=7x5 BC=7x0 SEE NOTES 1&2 ∃BW=8x2 RAMP SHALL NOT EXCEED 8.33% MAX SLOPE PER ADA REGULATIONS TC=7x0| BC=6x5| PROP. LANDSCAPE BERM 12" INV.=4.2 J -[5x95]/ 6x6 BC=6x25 TW=10x51 BW=7x0 -6"_INV.=3.8|/ (TYP:)|--PROP. 3:1 SLOPE PROP. TRENCH DRAIN, | SEE NOTE 10 (TYP.) TC=8x0 BC=7x5 100' WETLANDS PROP. 12" ADS N-12 HEADER (TYP.) TC=10x0[BUFFER ZONE BC=9x5 TC=9x0 BC=8x5 JPROP. EROSION CONTROL BARRIER & LIMITS OF WORK EX. CONCS SIDE WALK 2 UP #14-5 12" RCP -

UP NO #

TC=10x90| BC=10x40|

EX. CB-B RIM=12.30 12" INV. IN=9.60 12" INV. IN(CB-A)=7.85

12" INV. OUT=7.90

APPROX. LOC. OF EX. J

UTC=11x5 BC=11x0 ₹

EX. SMH-1

10" INV.=-1.91

APPROX. LOC. OF EX.

10" C.I. WATER MAIN

RIM=11.10

EX. CB-A

RIM=13.08 12" INV.=9.28 CB W/DH FND

EX. CB-2 (LEACHING BASIN) RIM=10.76

RIM=10.63

LIMWA LINE-

12" INV. IN(CB-2)=8.83 12" INV. IN(CB-B)=8.23 12" INV. OUT=8.33

EX. CONC. SIDEWALK

GRADING & DRAINAGE PLAN

12" INV.=9.06

ENGINEERS & LAND SURVEYORS

G.A.F PROFESSIC 266

VELOPMENT P

SITE DEV GRADING O

DWG.

JOB NO.: 20-9438

6 OF 11

QOZB,

PERMIT SET (NOT FOR CONSTRUCTION)

APPROX. LOC. OF EX.

EX. SMH-2 RIM=9.24

10" INV.=-2.85

12" A.C. WATER MAIN

EX CONC. SIDEWALK

MAIN STREET

ZONE AE-16 SHADED ZONE X

APPROX. LOC. OF L

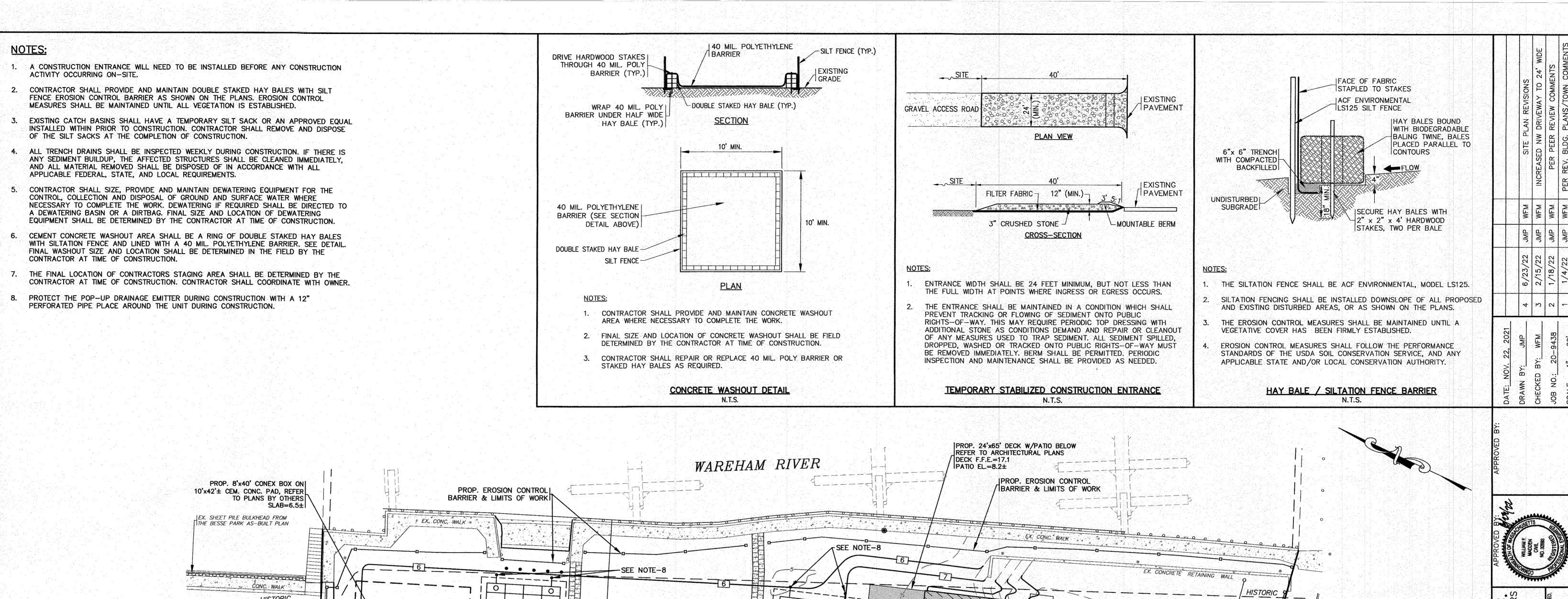
APPROX. LOC. OF EX.

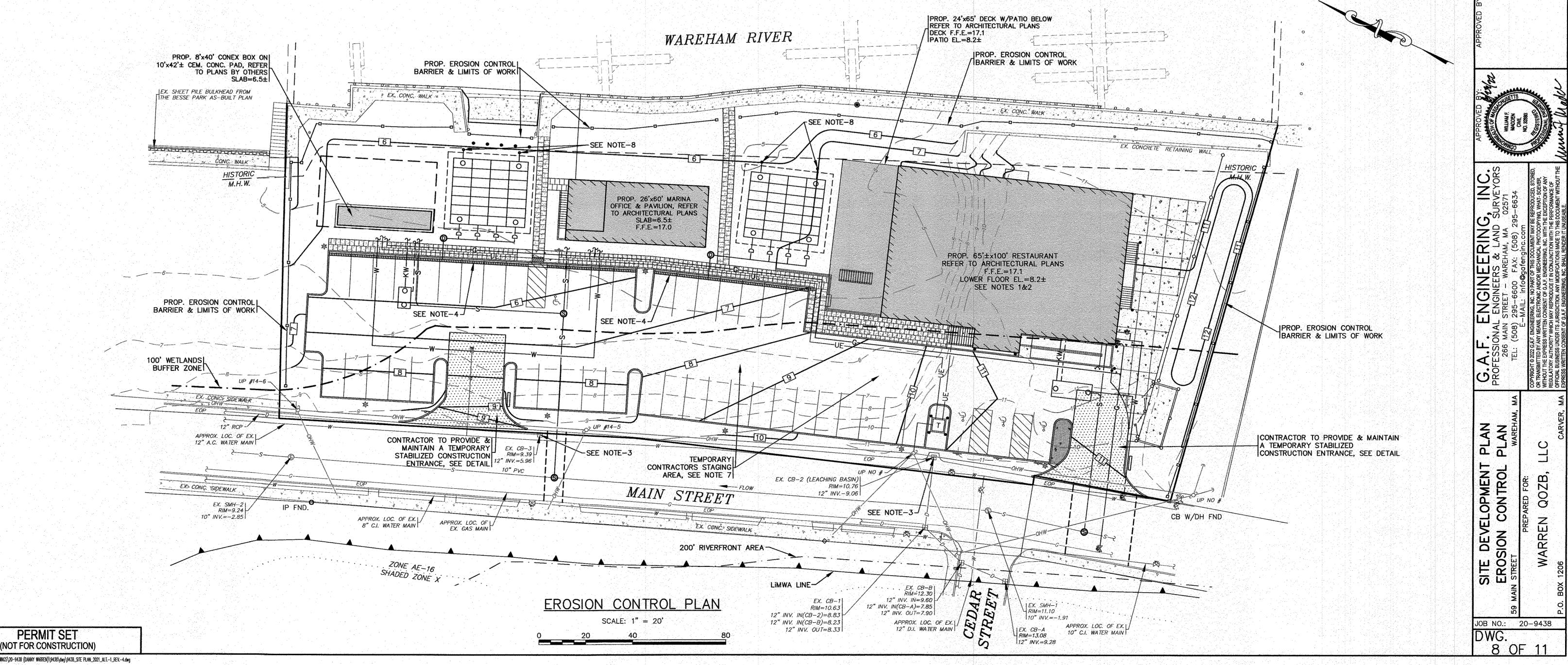
8" C.I. WATER MAIN

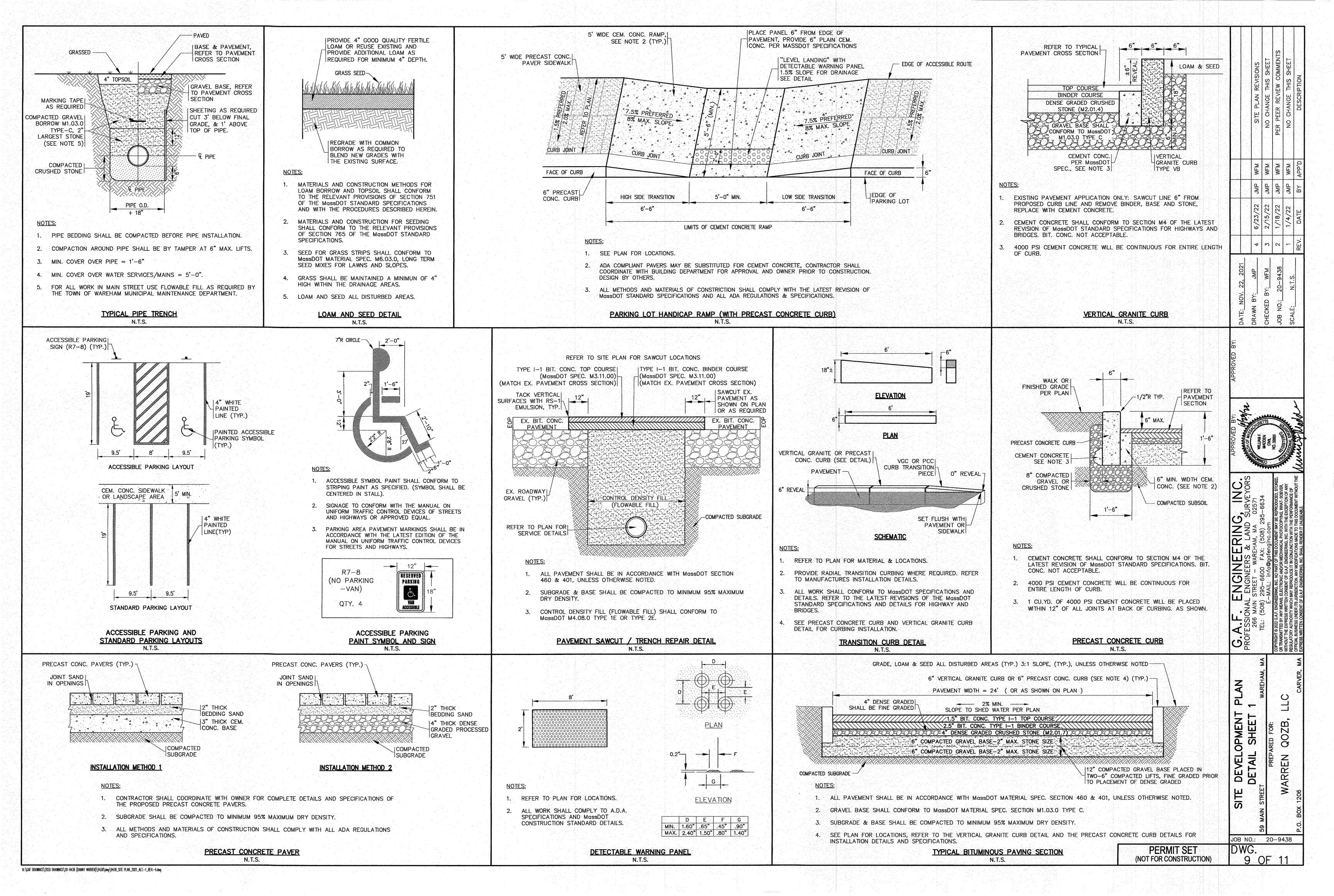
EX. CB-3 RIM=9.39

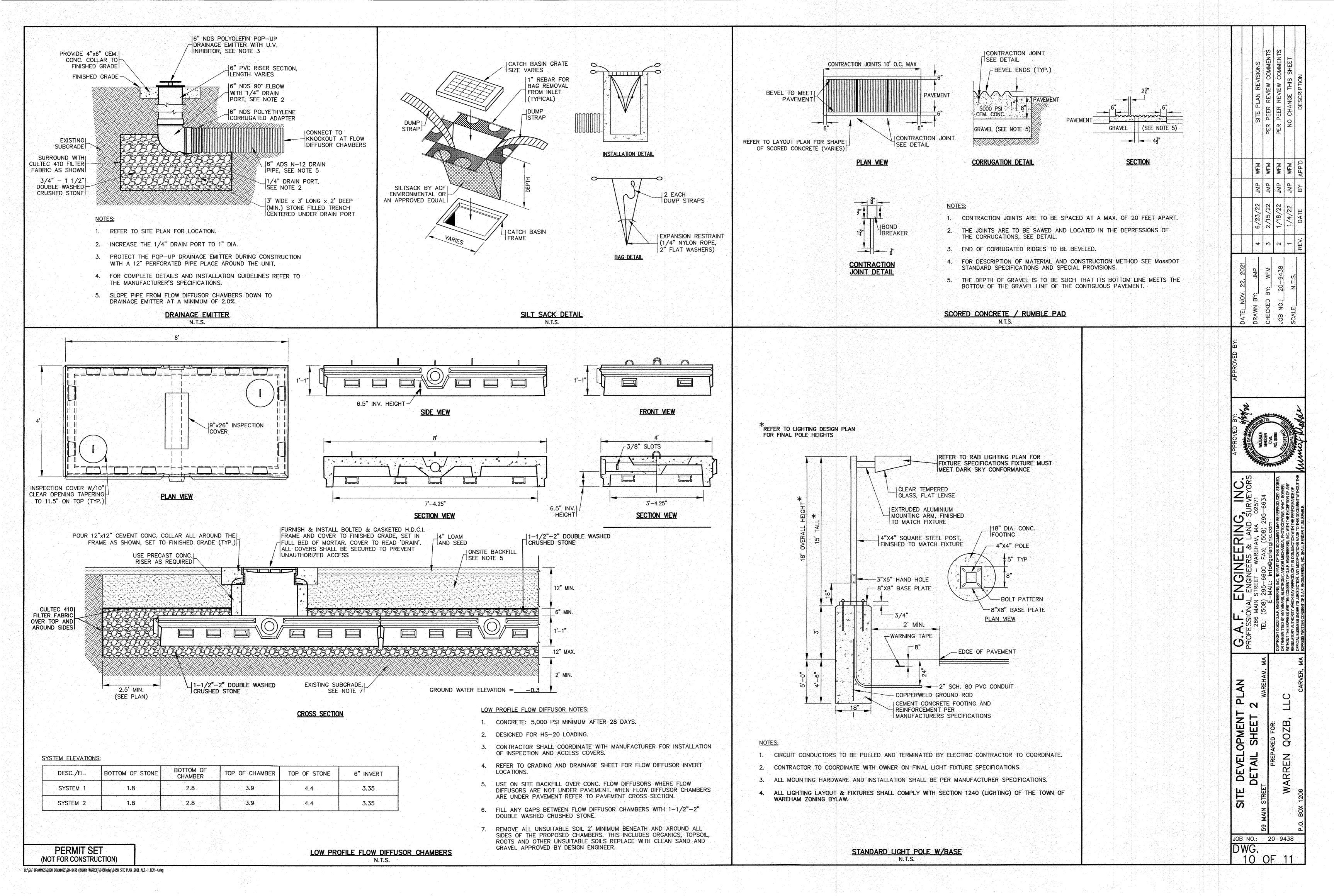
12" INV.=5.96

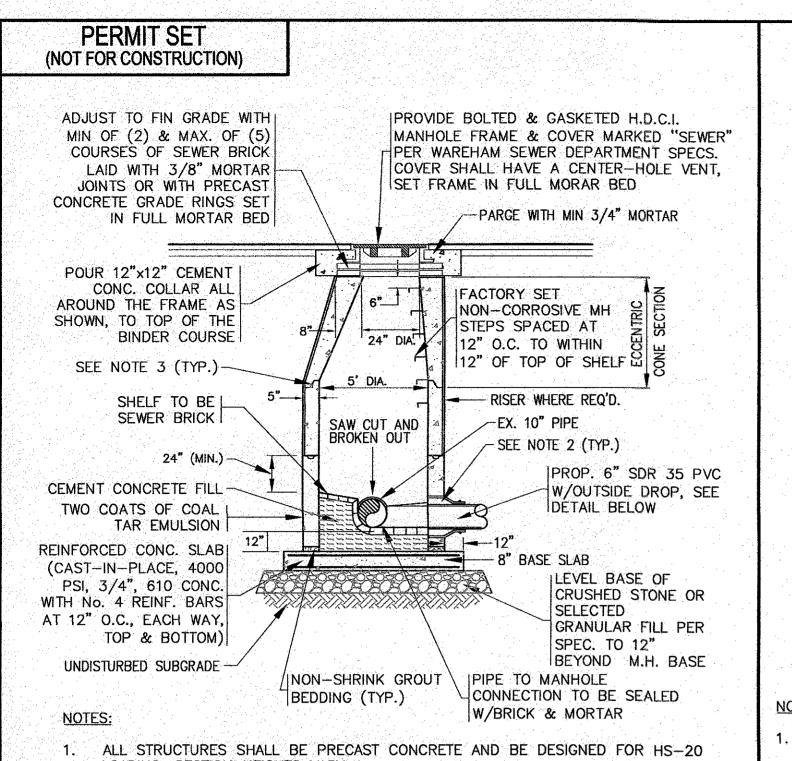
PLANT LIST **PLANTING STANDARDS:** SIZE COMMENTS REMARKS **BOTANICAL NAME** COMMON NAME THE LANDSCAPE CONTRACTOR SHALL FURNISH AND INSTALL AND/OR DIG, BALL, BURLAP, AND TRANSPLANT ALL PLANT MATERIALS LISTED ON THE PLANT SCHEDULE. BARE-ROOT IS TYPICALLY SHRUBS NOT PERMITTED FOR ANY TREE. ANNBAELLE WHITE HYDRANGEA ARBORESCENS 2. PLANT MATERIALS SHALL CONFORM TO THE REQUIREMENTS DESCRIBED IN THE LATEST EDITION OF 24'-30' HT. PLANT 5' O.C. NATIVE SPECIES HYDRANGEA 'ANNBELLE' AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN. PLANTS SHALL BE NURSERY GROWN. PLANT 5' O.C. 8 HYDRANGEA QUERCIFOLIA 24'-30' HT. OAK LEAF HYDRANGEA NATIVE SPECIES 3. PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED IN THE PLANT SCHEDULE. A) CALIPER MEASUREMENTS SHALL BE TAKEN SIX (6) INCHES ABOVE GRADE FOR TREES UNDER FOUR JUNIPERUS HORIZONTALIS BAR HARBOR GROUND (4) INCHES IN DIAMETER AND TWELVE (12) INCHES ABOVE GRADE FOR TREES FOUR (4) INCHES IN 18"-24" SPR. PLANT 4' O.C. NATIVE SPECIES 'BAR HARBOR' JUNIPER DIAMETER AND LARGER. B) MINIMUM BRANCHING HEIGHT FOR ALL SHADE TREES SHALL BE SIX (6) FEET. MINIMUM SIZE FOR SHADE TREES SHALL BE TWO AND ONE HALF (2.5) INCHES IN DIAMETER AND JUNIPERUS VIRGINIANA EASTERN RED CEDAR 7'-8' HT. PLANT 6' O.C. NATIVE SPECIES TWELVE (12) FEET IN HEIGHT. D) MINIMUM SIZE FOR EVERGREEN TREES SHALL BE BETWEEN SIX (6) AND EIGHT (8) FEET IN HEIGHT 8'-10' HT. PLANT 8' O.C. JV-2 14 JUNIPERUS VIRGINIANA EASTERN RED CEDAR E) MINIMUM SIZE FOR SHRUBS SHALL BE THREE (3) FEET IN HEIGHT NATIVE SPECIES 4. A PROFESSIONAL HORTICULTURIST/NURSERYMAN SHALL BE CONSULTED TO DETERMINE THE PROPER HYBRID SHRUB ROSE 28 ROSA HYBRID- KNOCK OUT 18"-24" HT. PLANT 3' O.C. RKO TIME TO MOVE AND INSTALL PLANT MATERIAL SO THAT DISTRESS TO THE PLANT IS MINIMIZED. 5 WHITE & 10 RED NON-INVASIVE PLANTING OF DECIDUOUS MATERIAL MAY BE CONTINUED DURING WINTER MONTHS PROVIDED THERE IS NO FROST IN THE GROUND AND FROST-FREE TOPSOIL PLANTING MIXTURES ARE USED. SPIRAEA JAPONICA NEON FLASH SPIREA 18"-24" HT. PLANT 3' O.C. SJNF NON-INVASIVE 'NEON FLASH' 5. A LANDSCAPE CONTRACTOR SHALL EXCAVATE ALL PLANT PITS, VINE PITS, HEDGE TRENCHES, AND SHRUB BEDS AS FOLLOWS: SHADE & ORNAMENTAL TREES A) ALL PITS SHALL BE GENERALLY CIRCULAR IN OUTLINE, WITH VERTICAL SIDES. THE TREE PIT SHALL BE DEEP ENOUGH TO ALLOW ONE-EIGHTH (1/8) OF THE BALL TO BE ABOVE THE EXISTING GRADE. OCTOBER GLORY PLANT AS PLANTS SHALL REST ON UNDISTURBED EXISTING SOIL OR WELL COMPACTED BACKFILL ON EVERY ACER RUBRUM 3" CAL. NATIVE SPECIES RED MAPLE SHOWN SIDE, THE TREE PITS MUST BE A MINIMUM OF 2 TIMES THE ROOT BALL DIAMETER. 'OCTOBER GLORY' B) IF AREAS ARE DESIGNATED AS SHRUB BEDS OR HEDGE TRENCHES, THEY SHALL BE CULTIVATED TO ACER RUBRUM PLANT AS BOWHALL COLUMNAR AT LEAST EIGHTEEN (18) INCHES IN DEPTH. AREAS DESIGNATED FOR GROUND COVERS AND VINES 3" CAL. NATIVE SPECIES SWAMP RED MAPLE SHOWN 'BOWHALL' SHALL BE CULTIVATED TO AT LEAST TWELVE (12) INCHES IN DEPTH. PLANT AS 6. EACH TREE, SHRUB, OR VINE SHALL BE PRUNED IN AN APPROPRIATE MANNER IN ACCORDANCE WITH 3" CAL. NYSSA SYLVATICA **BLACK GUM** ACCEPTED STANDARD PRACTICE. NATIVE SPECIES SHOWN PLANT AS ZELKOVA SERRATA 7. ALL TRENCHES AND SHRUB BEDS SHALL BE EDGED AND CULTIVATED TO THE LINES SHOWN ON THE ZSG 3" CAL. B & B GREEN VASE ZELKOVA SHOWN DRAWING. THE AREAS AROUND ISOLATED PLANTS SHALL BE EDGED AND CULTIVATED TO THE FULL 'GREEN VASE' DIAMETER OF THE PIT. SOD THAT HAS BEEN REMOVED AND STACKED SHALL BE USED TO TRIM THE EDGES OF ALL EXCAVATED AREAS TO THE NEAT LINES OF THE PLANT PIT SAUCERS, THE EDGE OF ORNAMENTAL GRASSES & PERENNIALS SHRUB AREAS, HEDGE TRENCHES AND VINE POCKETS. CALAMAGROSTIS ACUTIFLORA 8. AFTER CULTIVATION, ALL PLANT MATERIALS SHALL BE MULCHED WITH A LAYER BETWEEN TWO (2) 36" HT. FEATHER REED GRASS CAK "KARL FOERSTER" NON-INVASIVE AND THREE (3) INCHES DEEP OF HEMLOCK / SPRUCE MULCH OVER THE ENTIRE AREA OF THE BED OR SAUCER. HAPPY RETURNS 18" HT. HEMEROCALIS 120 HAPPY RETURNS' 12" O,C. 1 GAL. DWARF YELLOW DAYLILY NON-INVASIVE 9. A TWO (2) YEAR GUARANTEE SHALL BE PROVIDED ON ALL NEW PLANT MATERIAL. IF ANY TREE OR SHRUB DIES WITHIN THIS PERIOD OF TIME, IT SHALL BE REPLACED. NOTES: 10. ALL AREAS THAT ARE NOT LANDSCAPED SHALL BE LOAMED AND SEEDED. 1. ALL PLANT SPECIES PLANTED WITHIN THE 100' WETLAND BUFFER LINE ARE NATIVE OR CONSIDERED NON-INVASIVE SPECIES. PROP. 24'x65' DECK W/PATIO BELOW 2. LANDSCAPE DESIGN BY E.A. FULLER, LANDSCAPE ARCHITECT, 24 SCOTT DRIVE, PLYMOUTH, MA, 02360. REFER TO ARCHITECTURAL PLANS PROP. 8'x40' CONEX BOX ON DECK F.F.E.=17.1 WAREHAM RIVER 10'x42'± CEM. CONC. PAD, REFER PATIO EL.=8.2± TO PLANS BY OTHERS SLAB=6.5± EX. SHEET PILE BULKHEAD FROM THE BESSE PARK AS-BUILT PLAN 0 0 0 0 0 0 0 0 0 0 * EX. CONC. WALK . EX. CONC. WALK --(7)JV-1 GRASS AREA GRASS AREA (2)HAA-GRASS AREA ENGINEERS & LAND SURVEYORS PROP. 26'x60' MARINA OFFICE & PAVILION, REFER TO ARCHITECTURAL PLANS SLAB=6.5± F.F.E.=17.0 (3)HAA-PROP. 65'x100'± RESTAURANT REFER TO ARCHITECTURAL PLANS F.F.E.=17.1 LOWER FLOOR EL.=8.2± (3)CAK-(3)HQ-\ PROP. 6' TALL VINYL FENCE JPLANT ANNUALS, (3)CAK-COORD. WITH OWNER ARB, TYP. ARO (TYP.) Γ (15)HHR (3)HQ~ G.A.F (3)CAK~ 100' WETLANDS BUFFER ZONE (5)RKO (5)SJNF E DEVELOPMENT ANDSCAPING PL MAIN STREET QOZB, ZSG (TYP.) EX. CONC. SIDEWALK L(3)SJNF IP FND. CB W/DH FND EX. CONC. SIDEWALK ZONE AE-16 SHADED ZONE X LIMWA LINE ANDSCAPING PLAN JOB NO.: 20-9438 DWG. PERMIT SET (NOT FOR CONSTRUCTION)











- LOADING, SECTION HEIGHTS VARY.
- USE WATERTIGHT PENETRATION NON-SHRINK MORTAR OR RESILIENT EPDM RUBBER BOOT WITH INTERNAL EXTERNAL STAINLESS STEEL CLAMPS & EXPANDERS.
- ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS

DOGHOUSE SEWER MANHOLE

| WALL OF

MANHOLE

SHAPED INVERT

THREADED END CAP

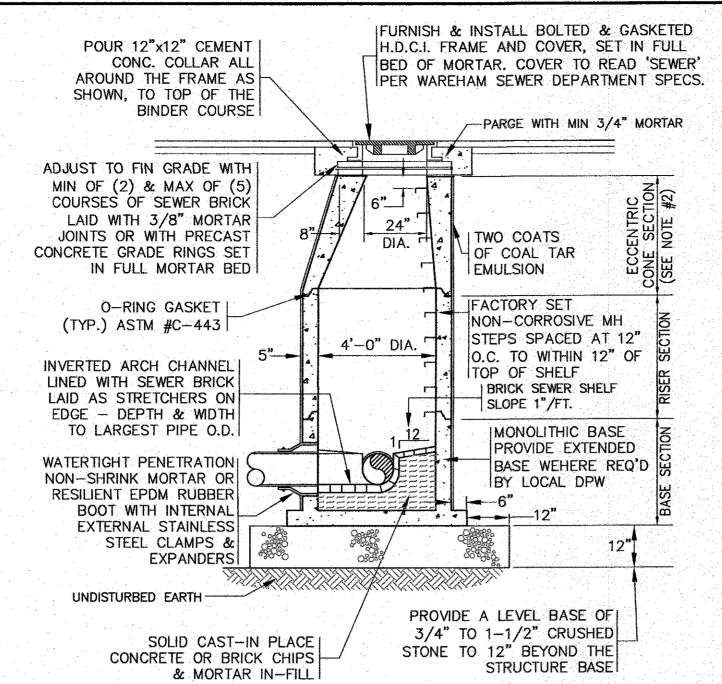
SEWER MANHOLE

SEE DETAIL

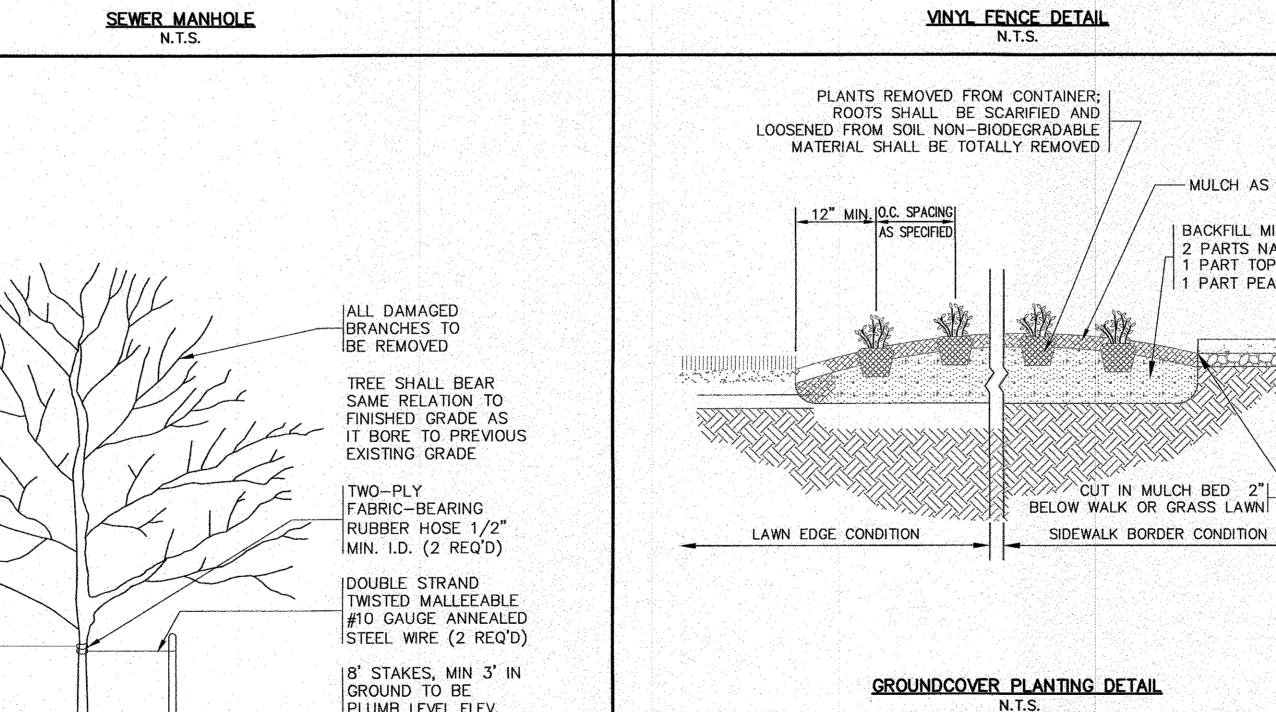
PROP. 6" SDR 35 PVC, SEE PLAN

WITH PLUG

SEWER MAIN



- 1. ALL STRUCTURES SHALL BE PRECAST CONC. IN ACCORDANCE WITH ASTM C-478 WITH H-20 LOADING. SECTION HEIGHTS VARY.
- 2. FOR SHALLOW INSTALLATION AND WHEN APPROVED BY THE ENGINEER, FLAT TOP H-20 SLAB ALLOWED, SUBMIT SHOP DWGS.
- 3. ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT. JOINT SEALANT BETWEEN PRECAST SECTIONS SHALL BE PREFORMED BUTYL RUBBER.
- 4. REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS



CAST-IN-PLACE 3000 P.S.I. CONCRETE

6" SDR 35 PVC,

SEE PLAN

FLOW

4" MIN.,

TYP.

90° BE

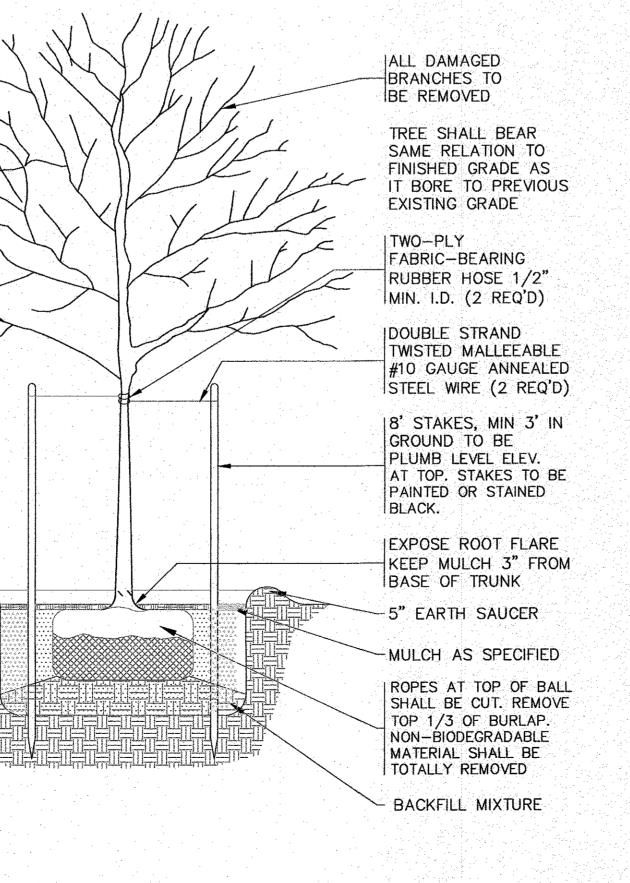
AROUND PIPE

USE WATERTIGHT PENETRATION NON-SHRINK MORTAR OR RESILIENT EPDM RUBBER BOOT WITH INTERNAL EXTERNAL STAINLESS STEEL CLAMPS & EXPANDERS.

UNDISTURBED EARTH

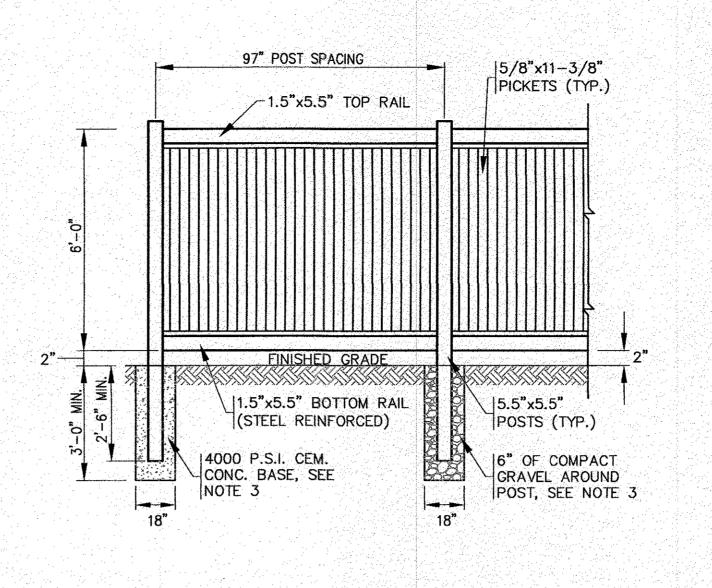
- ALL STRUCTURE JOINTS AND PENETRATIONS SHALL BE WATER TIGHT.
- REFER TO PLANS FOR PIPE SIZES, INVERTS, RIMS AND LOCATIONS.

OUTSIDE DROP - SEWER MANHOLE N.T.S.

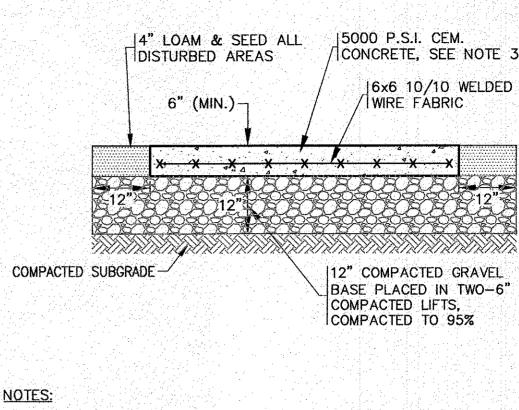


REFER TO LANDSCAPING PLAN FOR PLANTING LOCATIONS.

SHADE TREE PLANTING DETAIL N.T.S.

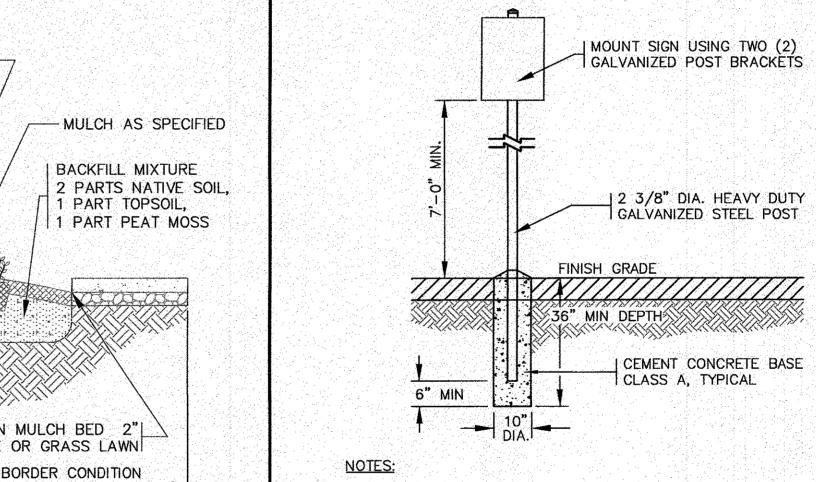


- REFER TO MANUFACTURERS SPECIFICATIONS FOR COMPLETE DETAILS AND INSTALLATION GUIDELINES.
- REFER TO PLAN FOR LOCATIONS.
- 3. CEMENT CONCRETE BASE SHALL BE USED AT ALL ENDS, ANGLE POINTS AND GATE POSTS. POSTS SHALL BE INSTALLED TO A DEPTH OF 2'-6" MIN. OR TO A DEPTH AS REQUIRED FOR FROST ADEQUATE PROTECTION.



- CEMENT CONCRETE PAD SHALL BE 6" THICK.
- 2. CONSTRUCTION JOINTS TO BE SET AT INTERVALS OF 1/4 OF LENGTH.
- 3. STRENGTH OF THE CEMENT CONCRETE SHALL BE 5000 P.S.I. @ 28 DAYS.
- 4. SUBGRADE & BASE SHALL BE COMPACTED TO MINIMUM 95% MAXIMUM DRY DENSITY.
- SEE PLAN FOR LOCATIONS.
- 6. SEE GRADING & DRAINAGE PLAN FOR ELEVATIONS.

CEMENT CONCRETE LOADING AREA/DUMPSTER PAD N.T.S.



- ALL SIGNS, MARKINGS AND DIMENSIONS SHALL BE IN CONFORMANCE WITH THE MOST RECENT EDITIONS OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), MassDOT AND TOWN OF WAREHAM STANDARDS AND SPECIFICATIONS.
- 2. ALL HARDWARE USED SHALL BE CADMIUM OR ZINC PLATED.

6" DIA. SCH. 40 STEEL PIPE FILLED WITH CEMENT CONCRETE WITH ROUNDED TOP, PAINT ENTIRE BOLLARD SAFETY YELLOW IF PAVED, REFER TO THE! PAVEMENT CROSS SECTION OR USE 4" LOAM AND SEED! OPTION: COVER BOLLARD WITH PLASTIC SLEEVE, HDPE MATERIAL WITH UV INHIBITORS, YELLOW OR OTHER HIGH VISIBILITY COLOR. CONCRETE MIX

TYPICAL SIGN POST N.T.S.

VELOPMENT PAIL SHEET 00 JOB NO.: 20-9438

11 OF 11

ENGINEERS & LAND SURVEYORS

CEM. CONC. APRON (TYP.) ' MIN DEPTH

> (TYP.) SEE PLAN FOR LOCATIONS.

> > N.T.S.

TYPICAL BOLLARD DETAIL

EXPOSE ROOT FLARE KEEP MULCH 3" FROM BASE OF TRUNK 2" TO 3" LAYER OF MULCH AS SPECIFIED 3" EARTH SAUCER-3" EARTH SAUCER WATER & TAMP! TO REMOVE AIR UNDISTURBED SOIL **POCKETS** ROPES AT TOP OF BALL BACKFILL MIXTURE SHALL BE CUT. REMOVE 2 PARTS NATIVE SOIL, TOP 1/3 OF BURLAP. 1 PART TOPSOIL, NON-BIODEGRADABLE 1 PART PEAT MOSS MATERIAL SHALL BE TOTALLY REMOVED ROOT EXCAVATED HOLE WILL BE BALL TO BE SCARIFIED &

SHRUB PLANTING

N.T.S.

ROOTS LOOSENED FROM

A MINIMUM 2X'S THE ROOT BALL DIAMETER

H:\CAF DRAWNGS\2020 DRAWNGS\20-9438 (DANNY WARREN)\9438\dwg\9438_SITE PLAN_2021_ALT.-1_REV.-4.dwg

SEE NOTE 1-

REQ'D