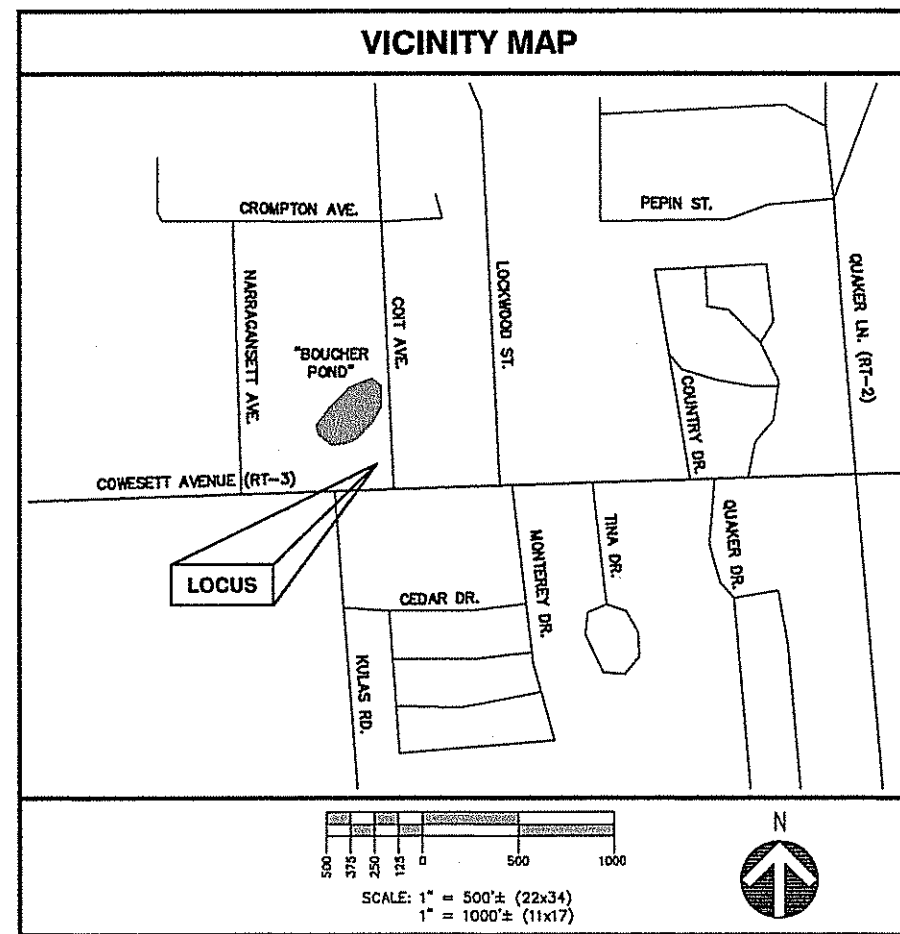




SITE NAME: WEST WARWICK 4 RI
ADDRESS: 226 COWESETT AVENUE
WEST WARWICK, RI 02893
CO-LOCATE - MONOPOLE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 02 2014 FILE # 11-0101
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

CONSTRUCTION

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GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER & CARRIER REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH VERIZON CARRIER CONSTRUCTION GUIDELINES AND STANDARD SPECIFICATIONS UNDER SEPARATE COVER.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND/OR EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK, CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455
- THIS SHEET SET WAS ORIGINALLY PRINTED TO ANSI D (22"x34") WITH 1" MARGINS. PRINTING TO ANSI B (11"x17") WILL RESULT IN A HALF-SCALE (1:2) SHEET SET WITH 1/2" MARGINS. CONFIRM ALL SCALED DISTANCES WITH GRAPHICAL SCALES SHOWN HEREIN.
- ALL WORK TO CONFORM TO STATE OF RHODE ISLAND BUILDING CODE SBC-1 2013 AND SBC-5 STATE ELECTRICAL CODE.
- SITE WORK IS SUBJECT TO APPROVAL OF RI DEM FRESHWATER WETLAND PERMIT.

PROJECT INFORMATION	
SITE TYPE:	CO-LOCATION MONOPOLE
SCOPE OF WORK:	PROPOSED (6) VERIZON PANEL ANTENNAS, (6) RRHS & (1) SURGE SUPPRESSOR MOUNTED ONTO (E) MONOPOLE, STICK BUILT 2HR EQUIPMENT SHELTER AND NATURAL GAS GENERATOR PROPOSED AT GROUND LEVEL.
SITE NAME:	WEST WARWICK 4 RI
SITE ADDRESS:	226 COWESETT AVENUE WEST WARWICK, RI 02893
COUNTY:	KENT
ASSESSOR'S TAX ID#:	MAP 28 LOT 500
ZONING DISTRICT:	BUSINESS (B)
UNIFORM FLOOR SLAB LOAD:	200PSF
UNIFORM ROOF LIVE LOAD:	60PSF
WIND LOAD:	130MPH, EXP B RISK CAT II
USE GROUP:	S-2
LATITUDE:	41° 41' 06.55" N ± (GTP RECORD PLAN)
LONGITUDE:	71° 30' 38.05" W ± (GTP RECORD PLAN)
DATUM:	NAD83
PROPERTY OWNER:	N/F COWESETT INN, INC. 226 COWESETT AVENUE WEST WARWICK, RI 02893
APPLICANT:	CELCO PARTNERSHIP dba VERIZON WIRELESS A DELAWARE GENERAL PARTNERSHIP 400 FRIBERG PARKWAY WESTBOROUGH, MA 01581 PH: (508) 366-4389
TOWER OWNER:	AMERICAN TOWER CORPORATION 116 HUNTINGTON AVE, 11TH FLOOR BOSTON, MA 02116 PH: (617) 375-7500

ProTerra
 DESIGN GROUP, LLC
 4 Bay Road
 Building A, Suite 200
 Weymouth, MA 01978
 Ph: (617) 330-4916
 Fax: (617) 330-4917

CLIENT:
STRUCTURE CONSULTING GROUP
 49 BRATTLE STREET
 ARLINGTON, MA 02474
 (781) 751-7724

NO.	DATE	REVISIONS
0	5/18/14	ISSUED FOR CONSTRUCTION
1	7/28/14	STICK BUILT SHELTER

SITE NAME: WEST WARWICK 4 RI
 ADDRESS: 226 COWESETT AVENUE
 WEST WARWICK, RI 02893

CELLCO PARTNERSHIP
 dba VERIZON WIRELESS
 A DELAWARE GENERAL PARTNERSHIP
 400 FRIBERG PARKWAY
 WESTBOROUGH, MA 01581

APPLICANT:
JESSE M. MORENO
 No. 9211
 PROFESSIONAL ENGINEER (CIVIL)

DATE: 6/18/14
 DRAWN: TBD/JRM
 CHECK: JMM/TEU
 SCALE: SEE PLAN
 JOB NO.: 13-030
 SHEET TITLE:
T-1

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR - STRUCTURE CONSULTING GROUP; SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION); OWNER - VERIZON WIRELESS; OEM - ORIGINAL EQUIPMENT MANUFACTURER.
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
14. SUBCONTRACTOR SHALL NOTIFY PROTERRA DESIGN GROUP, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL CARRIER STANDARDS AND SPECIFICATIONS.
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE CARRIER SPECIFICATION FOR SITE SIGNAGE.

CONCRETE & REINFORCING STEEL NOTES:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 518, ACI 308, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4500PSI) MAY BE USED. SLUMP SHALL BE 4"±1" AND ALL EXPOSED CONCRETE SHALL BE AIR ENTRAINMENT 5%±1%. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 308 CODE REQUIREMENTS.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615 GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS: CONCRETE CAST AGAINST EARTH... 3 IN.; CONCRETE EXPOSED TO EARTH OR WEATHER: #8 AND LARGER... 2 IN.; #5 AND SMALLER & WWF... 1 1/2 IN.; CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND... 1 IN.; SLAB AND WALL... 1/2 IN.; BEAMS AND COLUMNS... 1 IN.
5. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE NOTED.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
7. CONCRETE CYLINDER TESTS ARE REQUIRED FOR TOWER FOUNDATION BUT NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER: (A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT. (B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED. FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST BY AN INDEPENDENT TESTING AGENCY.
8. AS AN ALTERNATIVE TO ITEM 7, TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS OR FOUNDATIONS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

STRUCTURAL STEEL NOTES:

- 1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND CARRIER SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1, WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 3/8" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL.
6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES:

- 1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE IN LIEU OF JROF PARTY NUCLEAR DENSITY TESTING.
3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E), AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT NOTES:

- 1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- 1. FIELD VERIFICATION: SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, CARRIER ANTENNA PLATFORM LOCATION AND UTILITY TRENCHWORK.
2. COORDINATION OF WORK: SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
3. CABLE LADDER RACK: SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

- 1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC).
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL THE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WRENUTS BY HARGER (OR EQUAL). LUGS AND WRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.



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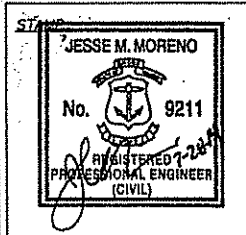
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ARLINGTON, MA 02474
(781) 791-7724

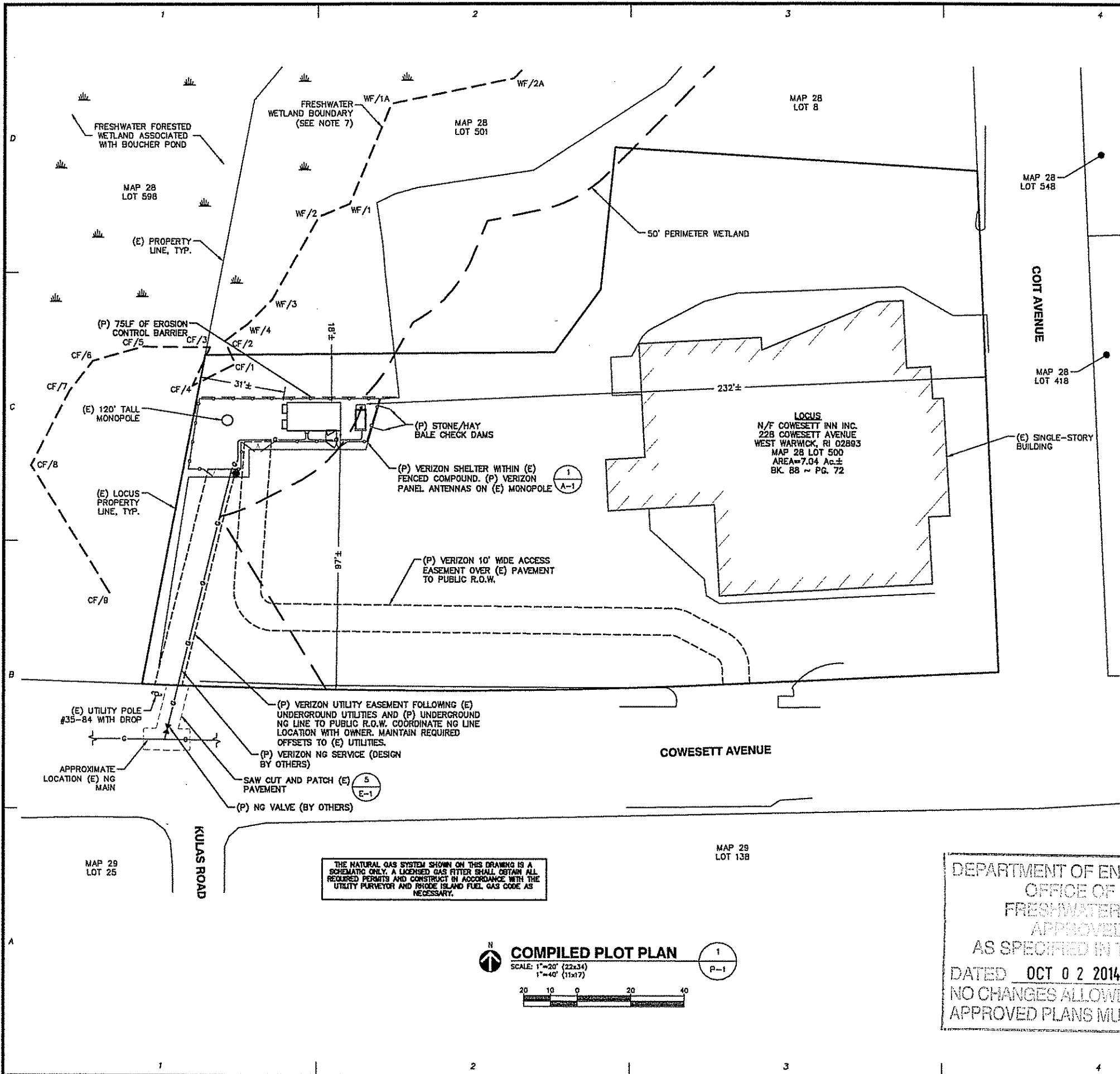
Table with columns: NO., DATE, REVISIONS. Row 1: 0, 6/18/14, ISSUED FOR CONSTRUCTION. Row 2: 1, 7/28/14, STICK BUILT SHEETER.

SITE NAME: WEST WARRICK 4 RI
ADDRESS: 226 CONSETT AVENUE
WEST WARRICK, RI 02893
JESSE M. MORENO
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
No. 9211



DATE: 6/18/14
DRAWN: TBD/JRM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-030

SHEET TITLE:
GENERAL NOTES
GN-1



GENERAL NOTES

1. THE TYPE, DIMENSIONS, MOUNTING HARDWARE, AND POSITIONS OF ALL PROJECT OWNER'S EQUIPMENT ARE SHOWN IN ILLUSTRATIVE FASHION. THESE DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION. ACTUAL HARDWARE DETAILS AND FINAL LOCATIONS MAY DIFFER SLIGHTLY FROM WHAT IS SHOWN.
2. THE PROJECT OWNER'S TELECOM FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. THE DESIGN OF THE ANTENNA MOUNTING HARDWARE WILL MEET THE ANSI/EIA/TA-222-G STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS.
4. ONCE THE FACILITY BECOMES FULLY OPERATIONAL, NORMAL AND ROUTINE MAINTENANCE BY PROJECT OWNER'S TECHNICIANS WILL BE PERFORMED ON A MONTHLY BASIS. THEREFORE, THE ESTIMATED VEHICLE TRIP GENERATION RATE IS 2 TRIPS PER MONTH PER CARRIER. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07 PER CARRIER. ASSUMING 2 CARRIERS THIS WOULD RESULT IN AN AVERAGE ADT OF 0.14.
5. PROTERRA DESIGN GROUP, LLC HAS NOT PERFORMED A BOUNDARY RE-TRACEMENT OR EXISTING CONDITIONS SURVEY IN CONJUNCTION WITH THIS PROJECT. THE DIMENSIONS DEPICTED ARE BASED UPON COMPILED INFORMATION AND MAY CHANGE AS MORE ACCURATE SURVEY DATA MAY BECOME AVAILABLE.
6. ALL WORK SUBJECT TO CONDITIONS OF GLOBAL TOWER ASSETS, LLC. APPROVAL DATED MAY 3, 2001 AND ANY SUBSEQUENT MODIFICATIONS
7. FRESHWATER WETLAND BOUNDARY REFLECTS WETLAND DELINEATION AS NOTED ON RIDEM-APPROVED SITE PLANS AS REFERENCED BY RIDEM INSIGNIFICANT ALTERATION - PERMIT NO. 11-0101 DATED AUGUST 11, 2011. WETLAND BOUNDARY WAS CONFIRMED IN THE FIELD AND REFLAGGED BY DEAN GUSTAFSON, SENIOR WETLAND SCIENTIST, ALL-POINTS TECHNOLOGY CORP., P.C. ON APRIL 12, 2014.

ZONING SUMMARY TABLE

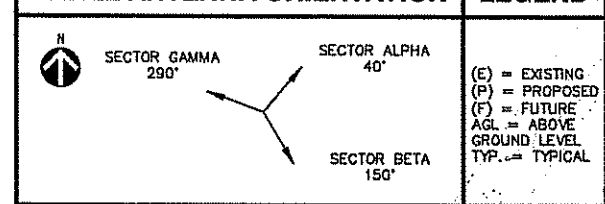
ZONING DISTRICT: BUSINESS (B)
 ASSESSORS ID: MAP 28 LOT 511
 (E) & (P) USE: WIRELESS COMMUNICATION FACILITY

DIMENSION	PROVIDED	CONSTRAINT
SHELTER - HEIGHT	12'±	12' MAX.
SHELTER - FRONT YARD	97'±	5' MIN.
SHELTER - SIDE YARD	31'±	15' MIN.
SHELTER - REAR YARD	18'±	30' MIN.
SHELTER - AREA	240 SF±	400 SF MAX.
DISTURBANCE WITHIN 50' PERIMETER WETLAND	1600 SF±	N/A

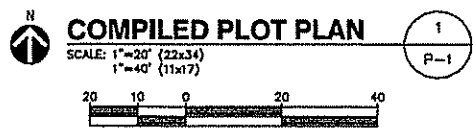
PLAN REFERENCES

EXISTING CONDITIONS, PROPERTY LINES AND WETLANDS: PLAN SET ENTITLED "CROMPTON; SITE ALTERNATE A; RI-5048; 226 COWESETT AVENUE; WEST WARWICK, RI 02893" PREPARED BY PROTERRA DESIGN GROUP, LLC REVISED THROUGH AUGUST 30, 2011.
 FENCED COMPOUND SURVEY: LIMITED COMPASS & TAPE SURVEY PERFORMED BY PROTERRA DESIGN GROUP, LLC ON SEPTEMBER 9, 2013.

PANEL ANTENNA ORIENTATION



THE NATURAL GAS SYSTEM SHOWN ON THIS DRAWING IS A SCHEMATIC ONLY. A LICENSED GAS FITTER SHALL OBTAIN ALL REQUIRED PERMITS AND CONSTRUCT IN ACCORDANCE WITH THE UTILITY PURVEYOR AND RHODE ISLAND FUEL GAS CODE AS NECESSARY.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED OCT 02 2014 FILE # 11-0101
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

ProTerra
 DESIGN GROUP, LLC

4 Bay Road
 Building A, Suite 200
 Hadley, MA 01035
 Ph: (413) 320-4918
 Fax: (413) 320-4917

CLIENT:
STRUCTURE CONSULTING GROUP
 49 BRATTLE STREET
 ARLINGTON, MA 02474
 (781) 791-7724

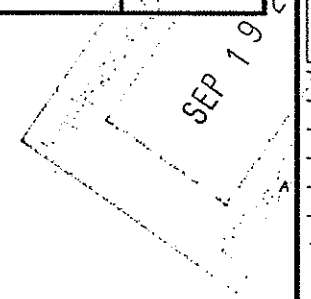
NO.	DATE	REVISIONS
0	6/18/14	ISSUED FOR CONSTRUCTION
1	7/28/14	STICK BUILT SHELTER

SITE NAME: WEST WARWICK 4 RI
 ADDRESS: 226 COWESETT AVENUE
 WEST WARWICK, RI 02898
 APPLICANT:
 VERIZON WIRELESS
 A DELTAIR CAPITAL PARTNERSHIP
 400 FRENCH PARKWAY
 WESTBOROUGH, MA 01581

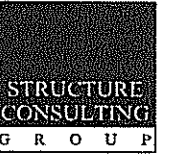
JESSE M. MORENO
 No. 9211
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DATE: 6/18/14
 DRAWN: TBD/JRM
 CHECK: JMM/TEJ
 SCALE: SEE PLAN
 JOB NO.: 13-030
 SHEET TITLE:

COMPILED PLOT PLAN
P-1



CLIENT:



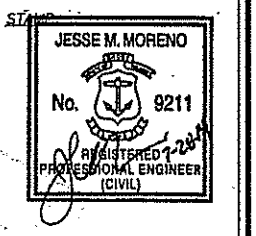
49 BRATTLE STREET
ARLINGTON, MA 02474
(781) 791-7724

NO.	DATE	REVISIONS
0	6/18/14	ISSUED FOR CONSTRUCTION
1	7/28/14	STICK BUILT SHELTER

SITE NAME: WEST WARWICK 4 RI
ADDRESS: 226 COVSETT AVENUE
WEST WARWICK, RI 02883

APPLICANT:
verizon/wireless

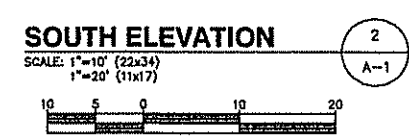
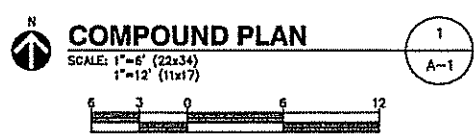
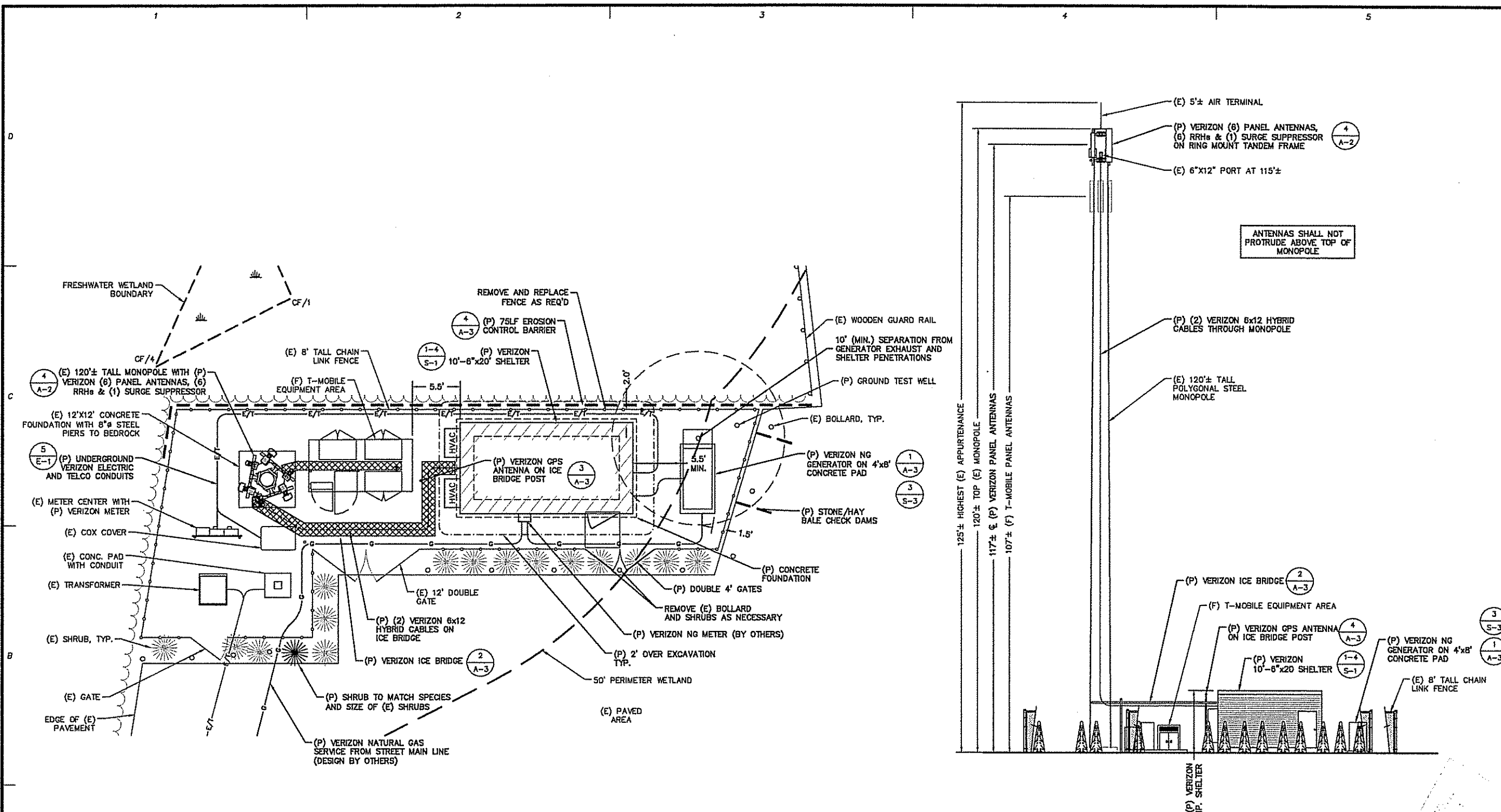
CELEO PARTNERSHIP
c/o VERIZON WIRELESS
A DELAWARE GENERAL PARTNERSHIP
400 FERRIS PARKWAY
WESTBOROUGH, MA 01581



DATE: 6/18/14
DRAWN: TBD/JRM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-030

SHEET TITLE:
COMPOUND PLAN & ELEVATION

A-1



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Martin D. Wencel

SEP 19 2014

CLIENT:



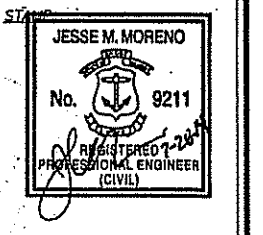
49 BRATTLE STREET
ARLINGTON, MA 02474
(781) 791-7724

NO.	DATE	REVISIONS
0	6/18/14	ISSUED FOR CONSTRUCTION
1	7/28/14	STICK BUILT SHELTER

SITE NAME: WEST WARWICK 4 RI
ADDRESS: 228 COMSEY AVENUE
WEST WARWICK, RI 02893

APPLICANT: **verizon wireless**

REGULATORY PARTNERSHIP
ON VERIZON WIRELESS
A REGULATORY PARTNERSHIP
400 PARKSIDE PLAZA
FITCHBURGH, MA 01525



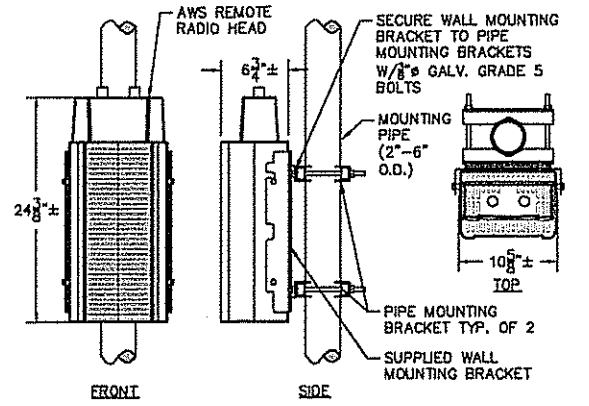
DATE: 6/18/14
DRAWN: TBD/JRM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-030

SHEET TITLE:
CONSTRUCTION DETAILS

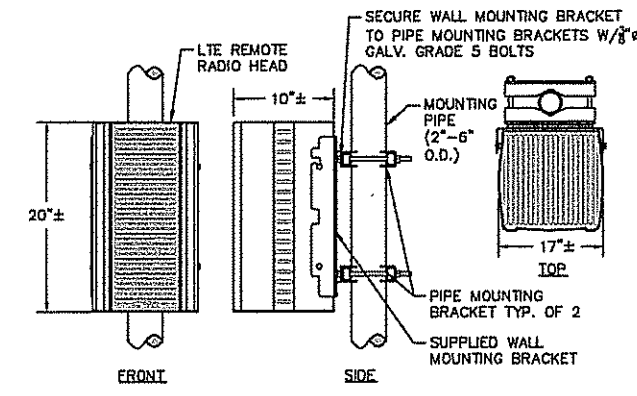
SECTOR	PANEL ANTENNAS					FEEDER 6X12-PAIR HYBRID CABLE	SURGE SUPPRESSOR QUANTITY	FROM SURGE SUPPRESSOR 1-PAIR HYBRID CABLE LENGTH	REMOTE RADIO UNIT				
	AZIMUTH	QTY.	MAKE & MODEL	RAD. CENTER (AGL)	DOWNTILT				QTY.	MAKE & MODEL	COAX. QTY.	COAX SIZE	COAX LENGTH
ALPHA	40°	1	SWEDCON SWCP 2X5515 (700)	117'	-3° N/O° E	2	1	6±	1	ALU 9442	2	1/2" Ø	15±
		1	SWEDCON SACP 2X5518 (AWS)	117'	-2° N/O° E			6±	1	ALU RRH240W-AWS	2	1/2" Ø	15±
BETA	150°	1	SWEDCON SWCP 2X5515 (700)	117'	-3° N/O° E			6±	1	ALU 9442	2	1/2" Ø	15±
		1	SWEDCON SACP 2X5518 (AWS)	117'	-3° N/O° E			6±	1	ALU RRH240W-AWS	2	1/2" Ø	15±
GAMMA	290°	1	SWEDCON SWCP 2X5515 (700)	117'	-4° N/O° E			6±	1	ALU 9442	2	1/2" Ø	15±
		1	SWEDCON SPXW 8515 (AWS)	117'	-4° N/O° E			6±	1	ALU RRH240W-AWS	2	1/2" Ø	15±

BASED UPON LATEST REVISED RFDS DATED SEPTEMBER 3, 2013.

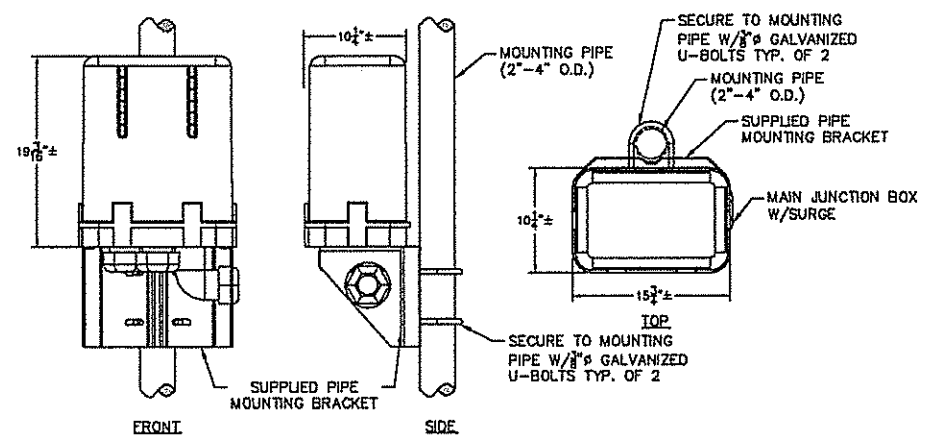
- GENERAL INSTALLATION NOTES:**
1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES, AND RRHs IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 3. INSTALL EQUIPMENT AND MOUNTING BRACKETS TO PRESERVE CLIMBING ACCESS ON TOWER.
 4. EQUIPMENT TO BE INSTALLED ABOVE VERIZON RAD. CENTER IN ACCORDANCE WITH TOWER STRUCTURAL ANALYSIS BY OTHERS.



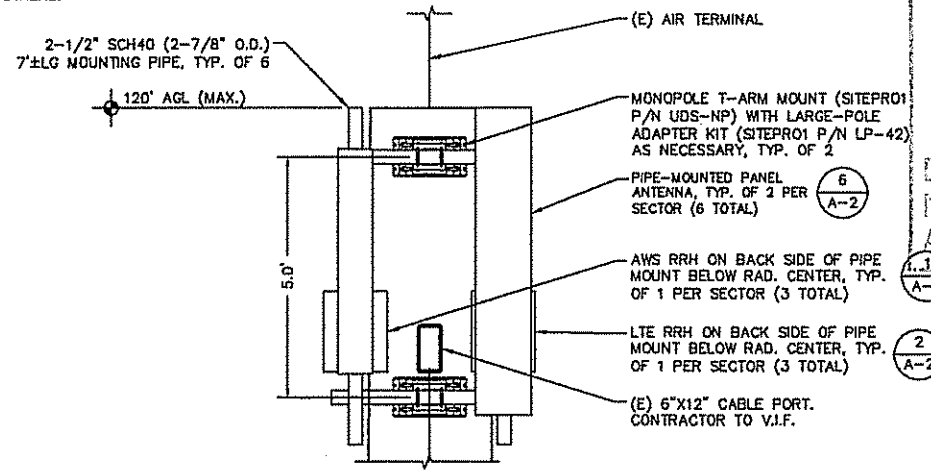
AWS RRH PIPE MOUNTING DETAIL
SCALE: NONE



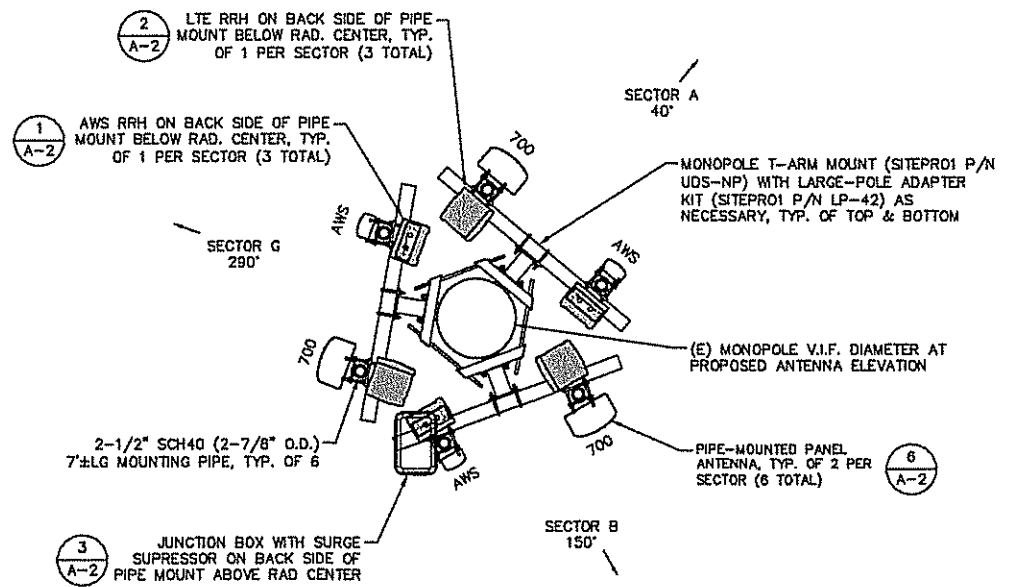
LTE RRH PIPE MOUNTING DETAIL
SCALE: NONE



JUNCTION BOX WITH SURGE PIPE MOUNTING DETAIL
SCALE: NONE



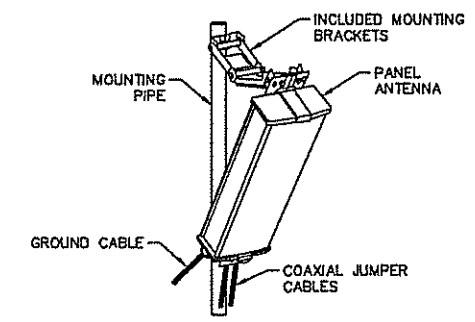
RF EQUIPMENT ELEVATION
SCALE: 1"=2'



RF EQUIPMENT PLAN
SCALE: 1"=2'

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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DATED OCT 02 2014 FILE # 11-0101
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Maureen A. Wenczek



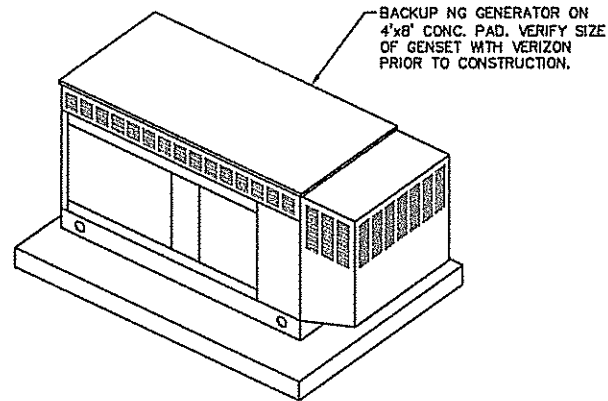
TYPICAL PANEL ANTENNA DETAIL
SCALE: NONE

PANEL ANTENNA:
76.7" H x 14.0" W x 11.3" D (3 TOTAL)
56.0" H x 8.6" W x 6.5" D (2 TOTAL)
51.97" H x 9.06" W x 5.51" D (1 TOTAL)

NOTE: EQUIPMENT BASED UPON RFDS 9-3-13

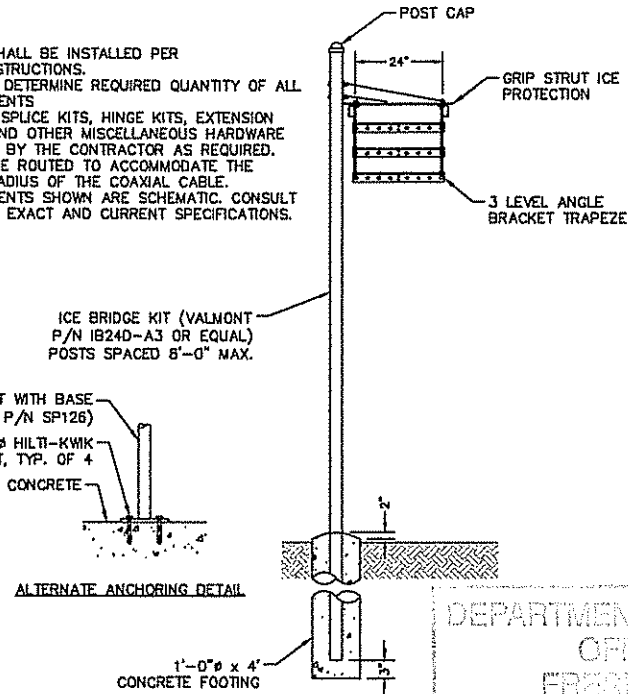
SEP 19 2014

THE NATURAL GAS SYSTEM SHOWN ON THIS DRAWING IS A SCHEMATIC ONLY. A LICENSED GAS FITTER SHALL OBTAIN ALL REQUIRED PERMITS AND CONSTRUCT IN ACCORDANCE WITH THE UTILITY PURVEYOR AND RHODE ISLAND FUEL GAS CODE AS NECESSARY.



NG BACKUP GENERATOR 1
SCALE: NONE A-3

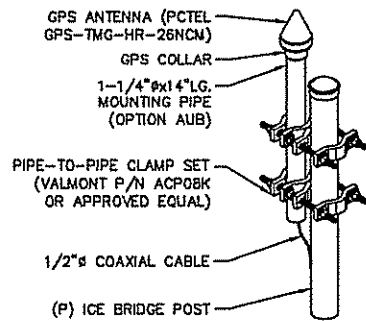
1. ALL COMPONENTS SHALL BE INSTALLED PER MANUFACTURERS INSTRUCTIONS.
2. CONTRACTOR SHALL DETERMINE REQUIRED QUANTITY OF ALL ICE BRIDGE COMPONENTS
3. SNAP-IN HANGERS, SPLICE KITS, HINGE KITS, EXTENSION KITS, STIFFENERS, AND OTHER MISCELLANEOUS HARDWARE SHALL BE PROVIDED BY THE CONTRACTOR AS REQUIRED.
4. ICE BRIDGE SHALL BE ROUTED TO ACCOMMODATE THE MINIMUM BENDING RADIUS OF THE COAXIAL CABLE.
5. ICE BRIDGE COMPONENTS SHOWN ARE SCHEMATIC. CONSULT MANUFACTURER FOR EXACT AND CURRENT SPECIFICATIONS.



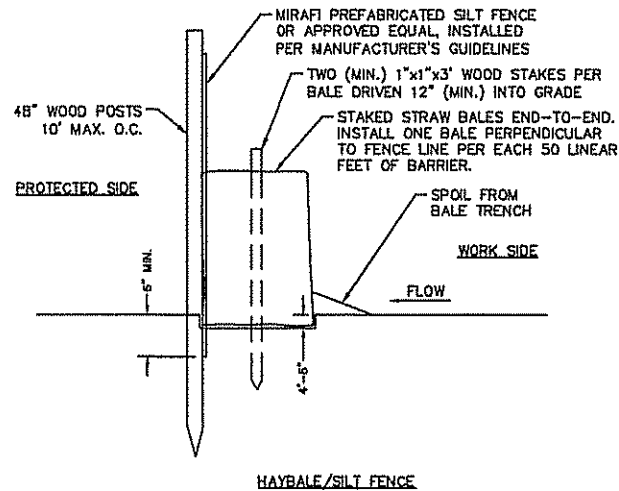
ICE BRIDGE 2
SCALE: NONE A-3

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESH WATER WETLANDS PROGRAM
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Martin D. Wenzel

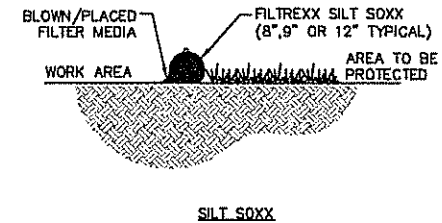


GPS ANTENNA DETAIL 3
SCALE: NONE A-3



EROSION CONTROL BARRIER 4
SCALE: NONE A-3

- NOTES:
1. USE SILT SOXX WHERE CONDITIONS DO NOT ALLOW STAKES TO BE DRIVEN.
 2. STRAW BALES TO BE TIED W/BIODEGRADABLE TWINE.
 3. SILT SOXX FILL TO MEET FILTREXX SPECIFICATIONS AND APPLICATION REQUIREMENTS.
 4. SILT SOXX COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



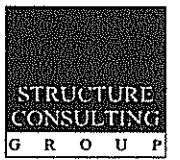
SILT SOXX

ProTerra
DESIGN GROUP, LLC

4 Bay Road
Building A, Suite 200
Hadley, MA 01035

Ph: (413)320-4818
Fax: (413)320-4917

CLIENT:



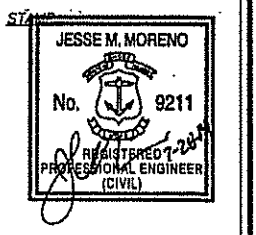
49 BRATTLE STREET
ARLINGTON, MA 02474
(781) 781-7724

NO.	DATE	REVISIONS
0	6/18/14	ISSUED FOR CONSTRUCTION
1	7/28/14	STICK BUILT SHELTER

SITE NAME: WEST WARWICK 4 RI
ADDRESS: 228 COVSEY AVENUE
WEST WARWICK, RI 02893

CELLO PARTNERSHIP
66 FRENCH WILLOWS
A DELAVER CAPITAL PARTNERSHIP
400 FERRIS PARKWAY
WESTBOROUGH, MA 01581

APPLICANT: **verizon** wireless



DATE: 6/18/14
DRAWN: TBD/JRM
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 13-030
SHEET TITLE:

**CONSTRUCTION
DETAILS**

A-3



**SITE NAME: CROMPTON
 SITE ALTERNATE A
 SITE NUMBER: RI-5048
 ADDRESS: 226 COWESETT AVENUE
 WEST WARWICK, RI 02893**

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 11 2011 FILE # U-0101
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Inspector D. Weneck

ProTerra
 DESIGN GROUP, LLC
 1 Short Street
 Suite 3
 Northampton, MA 01060
 Ph: (413)320-4918
 Fax: (413)320-4917

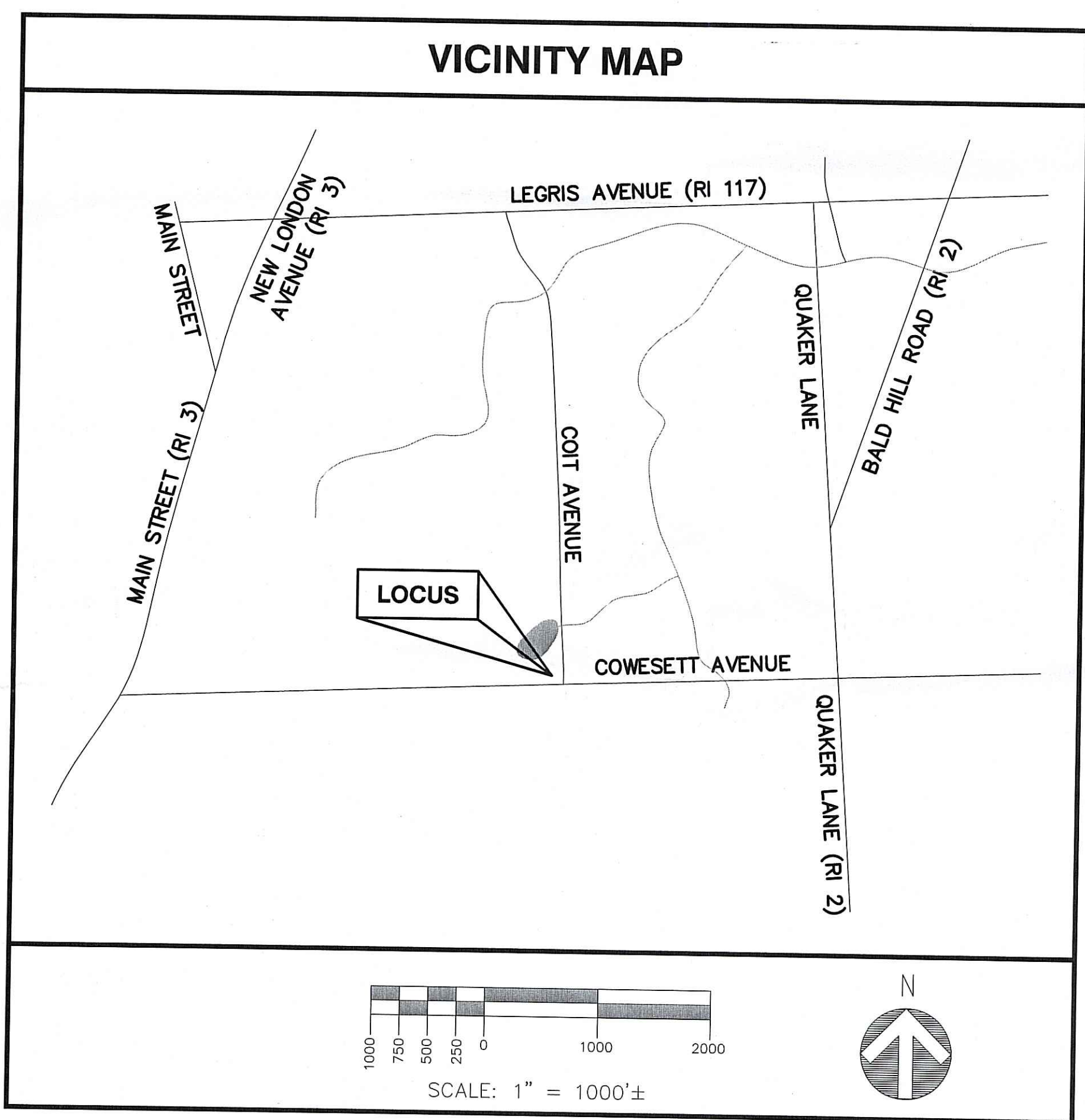
CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/17/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/9/11	CONSTRUCTION FINAL

DRAWING INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	3
GN-1	GENERAL NOTES	3
C-1	EXISTING CONDITIONS MAP	1
A-1	PLAN & ELEVATION	3
A-2	PLAN & DETAILS	3
A-3	DETAILS	3
E-1	ELECTRICAL & GROUNDING DETAILS	3
EA-1	EASEMENT PLAN	3

GENERAL NOTES

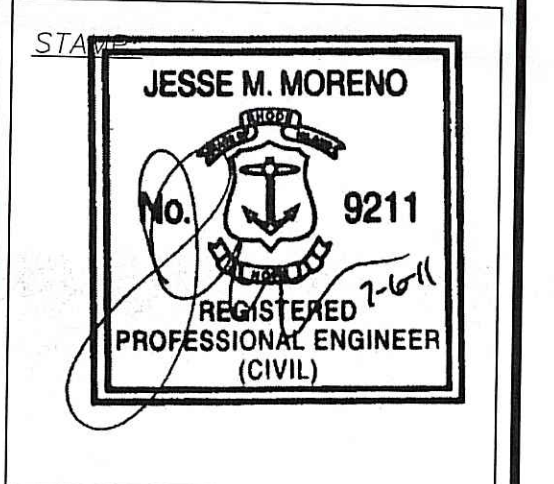
- CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER & GTP REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH GTP CONSTRUCTION GUIDELINES.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND/OR EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455
- THIS SHEET SET WAS ORIGINALLY PRINTED TO ANSI D (22"x34") WITH 1" MARGINS. PRINTING TO ANSI B (11"x17") WILL RESULT IN A HALF-SCALE (1:2) SHEET SET WITH 1/2" MARGINS. CONFIRM ALL SCALED DISTANCES WITH GRAPHICAL SCALES SHOWN HEREIN.



PROJECT INFORMATION	
SITE TYPE:	RAW LAND
SCOPE OF WORK:	PROPOSED 120' MONOPOLE WITH FLUSH MOUNTED ANTENNAS WITHIN FENCED COMPOUND.
SITE NAME:	CROMPTON
SITE NUMBER:	RI-5048
SITE ADDRESS:	226 COWESETT AVENUE WEST WARWICK, RI 02893
ASSESSOR'S TAX ID#:	MAP 28, LOT 511
ZONING DISTRICT:	BUSINESS
LATITUDE:	41° 41' 06.55" N
LONGITUDE:	71° 30' 38.05" W
DATUM:	NAD83
PROPERTY OWNER:	COWESETT INN, INC. 226 COWESETT AVENUE WEST WARWICK, RI 02893
APPLICANT:	GLOBAL TOWER PARTNERS 238 LITTLETON ROAD SUITE 205B WESTFORD, MA 01886 PH: (978) 692-1955 FAX: (561) 982-7018

**SITE NAME: CROMPTON
 SITE NUMBER: RI-5048
 ADDRESS: 226 COWESETT AVENUE
 WEST WARWICK, RI 02893**

**238 LITTLETON ROAD
 SUITE 205B
 WESTFORD, MA 01886**



DATE: 6/15/11
 DRAWN: MJV
 CHECK: JMM/TEJ
 SCALE: SEE PLAN
 JOB NO.: 11-045
 SHEET TITLE:

TITLE PAGE

T-1

Environmental Management
 JUL 18 2011
 Office of Water Resources

GENERAL NOTES:

- 1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - GTP
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - GTP
OEM - ORIGINAL EQUIPMENT MANUFACTURER
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL, STATE AND FEDERAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
5. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER, T1 CABLES AND GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR AND/OR LANDLORD PRIOR TO CONSTRUCTION.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION AND RETURN DISTURBED AREAS TO ORIGINAL CONDITIONS.
13. THE SUBCONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
14. SUBCONTRACTOR SHALL NOTIFY PROTERRA DESIGN GROUP, LLC 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING TRENCHES, SEALING ROOF AND WALL PENETRATIONS AND POST DOWNS, FINISHING NEW WALLS OR FINAL ELECTRICAL CONNECTIONS FOR ENGINEERING REVIEW.
15. CONSTRUCTION SHALL COMPLY WITH ALL GTP STANDARDS AND SPECIFICATIONS.
16. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
17. THE EXISTING CELL SITES ARE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
18. IF THE EXISTING CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

SITE WORK GENERAL NOTES:

- 1. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
2. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONFINED SPACE C) ELECTRICAL SAFETY D) TRENCHING AND EXCAVATION.
3. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
4. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
5. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE BTS EQUIPMENT AND TOWER AREAS.
6. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
7. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
8. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
9. THE AREAS OF THE OWNERS PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION AS SPECIFIED IN THE PROJECT SPECIFICATIONS.
10. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
11. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE GTP SPECIFICATION FOR SITE SIGNAGE.

CONCRETE & REINFORCING STEEL NOTES:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318, ACI 336, ASTM A184, ASTM A185 AND THE DESIGN AND CONSTRUCTION SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. A HIGHER STRENGTH (4000PSI) MAY BE USED. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 381 CODE REQUIREMENTS
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
4. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS:
CONCRETE CAST AGAINST EARTH.....3 IN.
CONCRETE EXPOSED TO EARTH OR WEATHER:
#6 AND LARGER 2 IN.
#6 AND SMALLER & WWF 1 1/2 IN.
CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:
SLAB AND WALL 3/4 IN.
BEAMS AND COLUMNS 1 1/2 IN.
5. A CHAMFER 3/8" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
6. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO THE MANUFACTURERS RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR CONTRACTOR APPROVAL WHEN DRILLING HOLES IN CONCRETE. SPECIAL INSPECTIONS, REQUIRED BY GOVERNING CODES, SHALL BE PERFORMED IN ORDER TO MAINTAIN MANUFACTURER'S MAXIMUM ALLOWABLE LOADS. ALL EXPANSION/WEDGE ANCHORS SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED. EXPANSION BOLTS SHALL BE PROVIDED BY SIMPSON OR APPROVED EQUAL.
7. CONCRETE CYLINDER TIES ARE NOT REQUIRED FOR SLAB ON GRADE WHEN CONCRETE IS LESS THAN 50 CUBIC YARDS (IBC1905.6.2.3) IN THAT EVENT THE FOLLOWING RECORDS SHALL BE PROVIDED BY THE CONCRETE SUPPLIER:
(A) RESULTS OF CONCRETE CYLINDER TEST PERFORMED AT THE SUPPLIERS PLANT.
(B) CERTIFICATION OF MINIMUM COMPRESSIVE STRENGTH FOR THE CONCRETE GRADE SUPPLIED.
FOR GREATER THAN 50 CUBIC YARDS THE GC SHALL PERFORM THE CONCRETE CYLINDER TEST.
8. AS AN ALTERNATIVE TO ITEM 7. TEST CYLINDERS SHALL BE TAKEN INITIALLY AND THEREAFTER FOR EVERY 50 YARDS OF CONCRETE FROM EACH DIFFERENT BATCH PLANT.
9. EQUIPMENT SHALL NOT BE PLACED ON NEW PADS FOR SEVEN DAYS AFTER PAD IS POURED, UNLESS IT IS VERIFIED BY CYLINDER TESTS THAT COMPRESSIVE STRENGTH HAS BEEN ATTAINED.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

STRUCTURAL STEEL NOTES:

- 1. ALL STEEL WORK SHALL BE PAINTED OR GALVANIZED IN ACCORDANCE WITH THE DRAWINGS AND GTP SPECIFICATIONS UNLESS OTHERWISE NOTED. STRUCTURAL STEEL SHALL BE ASTM-A-36 UNLESS OTHERWISE NOTED ON THE SITE SPECIFIC DRAWINGS. STEEL DESIGN, INSTALLATION AND BOLTING SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION".
2. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION. PAINTED SURFACES SHALL BE TOUCHED UP.
3. BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4"Ø) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE. ALL BOLTS SHALL BE GALVANIZED OR STAINLESS STEEL.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 3/8" DIA. ASTM A 307 BOLTS (GALV) UNLESS NOTED OTHERWISE.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER REVIEW & APPROVAL ON PROJECTS REQUIRING STRUCTURAL STEEL
6. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.

SOIL COMPACTION NOTES:

- 1. EXCAVATE AS REQUIRED TO REMOVE VEGETATION AND TOPSOIL TO EXPOSE NATURAL SUBGRADE AND PLACE CRUSHED STONE AS REQUIRED.
2. COMPACTION CERTIFICATION: AN INSPECTION AND WRITTEN CERTIFICATION BY A QUALIFIED GEOTECHNICAL TECHNICIAN OR ENGINEER IS ACCEPTABLE.
3. AS AN ALTERNATE TO INSPECTION AND WRITTEN CERTIFICATION, THE "UNDISTURBED SOIL" BASE SHALL BE COMPACTED WITH "COMPACTION EQUIPMENT", LISTED BELOW, TO AT LEAST 90% MODIFIED PROCTOR MAXIMUM DENSITY PER ASTM D 1557 METHOD C.
4. COMPACTED SUBBASE SHALL BE UNIFORM AND LEVELED. PROVIDE 6" MINIMUM CRUSHED STONE OR GRAVEL COMPACTED IN 3" LIFTS ABOVE COMPACTED SOIL. GRAVEL SHALL BE NATURAL OR CRUSHED WITH 100% PASSING #1 SIEVE.
5. AS AN ALTERNATE TO ITEMS 2 AND 3, THE SUBGRADE SOILS WITH 5 PASSES OR A MEDIUM SIZED VIBRATORY PLATE COMPACTOR (SUCH AS BOMAG BPR 30/38) OR HAND-OPERATED SINGLE DRUM VIBRATORY ROLLER (SUCH AS BOMAG BW 55E), AND SOFT AREAS THAT ARE ENCOUNTERED SHOULD BE REMOVED AND REPLACED WITH A WELL-GRADED GRANULAR FILL AND COMPACTED AS STATED ABOVE.

COMPACTION EQUIPMENT NOTES:

- 1. HAND OPERATED DOUBLE DRUM, VIBRATORY ROLLER, VIBRATORY PLATE COMPACTOR OR JUMPING JACK COMPACTOR.

CONSTRUCTION NOTES:

- 1. FIELD VERIFICATION: SUBCONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK, ANTENNA PLATFORM LOCATION (IF REQUIRED) AND UTILITY TRENCHWORK.
2. COORDINATION OF WORK: SUBCONTRACTOR SHALL COORDINATE RF WORK AND PROCEDURES WITH CONTRACTOR.
3. CABLE LADDER RACK: SUBCONTRACTOR SHALL FURNISH AND INSTALL CABLE LADDER RACK, CABLE TRAY AND/OR ICE BRIDGE, AND CONDUIT AS REQUIRED TO SUPPORT CABLES TO THE NEW BTS LOCATION.

ELECTRICAL INSTALLATION NOTES:

- 1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC).
2. SUBCONTRACTOR SHALL MODIFY OR INSTALL CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLEING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC AND OSHA, AND MATCH INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC AND OSHA.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PANELBOARD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR #2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (#34 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY HARGER (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (EMT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC.
24. CABINETS, BOXES AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.
31. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS, NEC AND ALL APPLICABLE LOCAL CODES.
32. CONDUIT ROUTINGS ARE SCHEMATIC. SUBCONTRACTOR SHALL INSTALL CONDUITS SO THAT ACCESS TO EQUIPMENT IS NOT BLOCKED.

DEBRIS REMOVAL AND ENVIRONMENTAL MANAGEMENT PROGRAM APPROVED WITH CONDITIONS APPROVAL APPROVED PLANS MUST BE AT CONSTRUCTION SITE



1 Short Street
Suite 3
Northampton, MA 01060
Ph: (413)320-4918
Fax: (413)320-4917

CONSULTANTS:

Table with 2 columns: NO., DATE. Rows for ISSUED FOR CONSTRUCTION, CONSTRUCTION REVISED, CONSTRUCTION FINAL.

Table with 2 columns: NO., DATE. Rows for ISSUED FOR CONSTRUCTION, CONSTRUCTION REVISED, CONSTRUCTION FINAL.

SITE NAME: CROMPTON
SITE NUMBER: RI-5048
ADDRESS: 226 COVSETT AVENUE
WEST WARWICK, RI 02888
238 LITTLETON ROAD
SUITE 205B
WESTFORD, MA 01886
GTP logo



DATE: 6/15/11
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 11-045

SHEET TITLE:

GENERAL NOTES

GN-1

FAA 2-C CERTIFICATION

I HEREBY CERTIFY THAT THE LATITUDE, LONGITUDE, AND ELEVATION PRESENTED HEREON MEET THE REQUIREMENTS OF THE FAA WITH THE FOLLOWING ACCURACIES:

TWENTY (20) FEET VERTICALLY
FIFTY (50) FEET HORIZONTALLY

John A. Halnon
JOHN A. HALNON, PLS RI#1906
DATE: 05/26/2011

GENERAL SURVEY NOTES

- SITE DETAIL SHOWN ON THIS SURVEY IS BASED ON FIELD DATA COLLECTED ON 05/06/11. THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RI BOARD OF REGISTRATION FOR LAND SURVEYORS AND SUBSTANTIALLY COMPLIES WITH THE CURRENT ACCURACY STANDARDS ADOPTED BY ALTA AND ACSM. BOUNDARY INFORMATION IS COMPILED FROM RECORD DOCUMENTS AND IS NOT TO BE CONSTRUED AS HAVING BEEN OBTAINED AS THE RESULT OF A FIELD BOUNDARY SURVEY, AND IS SUBJECT TO CHANGE AS AN ACCURATE FIELD SURVEY MAY DISCLOSE.
- THE PURPOSE OF THIS SURVEY IS TO SUPPORT THE DESIGN AND CONSTRUCTION OF A TELECOMMUNICATION FACILITY. USE OF THIS SURVEY BY ANYONE OTHER THAN GLOBAL TOWER PARTNERS, AND USE OF THIS SURVEY FOR ANY PURPOSE NOT RELATED TO THE DESIGN OF THE INTENDED FACILITY IS STRICTLY PROHIBITED.
- PROPERTY LINES AND BOUNDARY DIMENSIONS SHOWN ON THIS SURVEY ARE BASED ON A COMPILATION OF RECORDED PLANS AND DEEDS AND ARE NOT INTENDED TO REPRESENT DEFINITIVE BOUNDARY LINES OR BE USED FOR THE PURPOSES OF CONVEYANCE. PROPERTY RELATED INFORMATION HAS NOT BEEN CONFIRMED BY FIELD SURVEY OBSERVATIONS AND NO ASSESSMENT OF LAND OCCUPATION HAS BEEN CONDUCTED IN THE PREPARATION OF THIS SURVEY. A PROPERTY LINE RETRACEMENT SURVEY HAS NOT BEEN CONDUCTED BY NORTHEAST SURVEY CONSULTANTS, PC.
- THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIPS AND THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED, AND NO NEW LINES FOR DIVISION OF EXISTING OWNERSHIP OR FOR NEW WAYS ARE SHOWN.
- PRIMARY GEODETIC SURVEY CONTROL WAS ESTABLISHED FROM AN ON THE GROUND SURVEY USING THE GLOBAL POSITIONING SYSTEM (GPS) ON 06-29-2010. THE HORIZONTAL REFERENCED DATUM IS THE NAD 83 BASED ON THE GRS 80 REFERENCE ELLIPSOID. THE GRID COORDINATES ARE BASED ON THE RHODE ISLAND STATE PLANE COORDINATE SYSTEM OF 1983. ELEVATIONS SHOWN ARE ASSUMED AND ARE APPROXIMATED TO THE NAVD 88 VERTICAL DATUM. VERTICAL AND HORIZONTAL INFORMATION SHOWN MEETS THE STANDARD CRITERIA FOR AN FAA 2C CERTIFICATION (50' HORIZONTAL AND 20' VERTICAL).
- IN THE EVENT THAT BENCHMARKS (BMs), ESTABLISHED FOR THIS PROJECT AND PUBLISHED ON THIS SURVEY ARE DESTROYED, NOT RECOVERABLE OR A DISCREPANCY IS FOUND, THE USER SHOULD NOTIFY THIS FIRM IN WRITING PRIOR TO COMMENCING OR CONTINUING ANY WORK.
- THE LOCUS PARCEL IS SHOWN AS LOT 500 & 511 ON THE TOWN OF WEST WARWICK TAX ASSESSOR'S MAP NO. 28.
- THE PROJECT AREA IS LOCATED IN FLOOD ZONE "X" UNSHADED (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FLOOD INSURANCE RATE MAP FOR THE TOWN OF WEST WARWICK, COMMUNITY PANEL NUMBER 44003C 0117 G, DATED DECEMBER 3, 2010.
- THE LOCUS PARCEL AS SHOWN IS LOCATED IN THE TOWN OF WEST WARWICK "BUSINESS" ZONING DISTRICT.
- ALL UNDERGROUND UTILITY INFORMATION WAS DETERMINED FROM SURFACE INVESTIGATIONS AND EXISTING PLANS OF RECORD. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES IN THE FIELD PRIOR TO ANY SITE WORK. CALL THE FOLLOWING FOR ALL PRE-CONSTRUCTION NOTIFICATION 72-HOURS PRIOR TO ANY EXCAVATION ACTIVITY: DIG SAFE SYSTEM (MA, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CB): 1-800-922-4455
- WETLANDS WERE DELINEATED BY NORTHEAST CONSULTING FORESTRY SERVICES ON 11/8/10. PROPERTY OWNER: COWESETT INN, INC.
LOCUS DEED REFERENCE: DEED BOOK 88, PAGE 72
PLAN REFERENCE: PLAN BOOK 3, PAGE 118 & "FINAL PLAN, RECORD PLAN - PHASE 1, POND VIEW SUBDIVISION, WEST WARWICK, RHODE ISLAND BY: DIPRETE ENGINEERING ASSOCIATES, INC., PREPARED FOR MEADOWBROOK ESTATES, LLC", DATED MARCH 2, 1998"

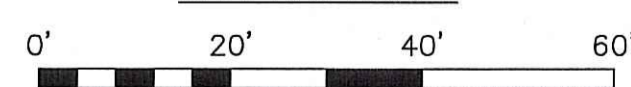
LEGEND

- 18-15 - ASSESSOR'S MAP-LOT
- AMSL - ABOVE MEAN SEA LEVEL DATUM
- ⊙ - TOWER CONTROL POINT
- - WETFLAG
- ↓ - GUY WIRE
- - IRF - IRON ROD FOUND
- ▲ - CALCULATED POINT
- ▣ - CB - CATCH BASIN
- ~ - LOCUS BOUNDARY
- - TREE LINE
- - GUARD RAIL
- - OHW - OVERHEAD WIRES
- - WETLAND DELINEATION
- - POST & RAIL FENCE
- - ZONING DISTRICT LINE
- - INTERIOR LOT LINE

EXISTING CONDITIONS PLAN

SCALE: 1" = 20'

GRAPHIC SCALE

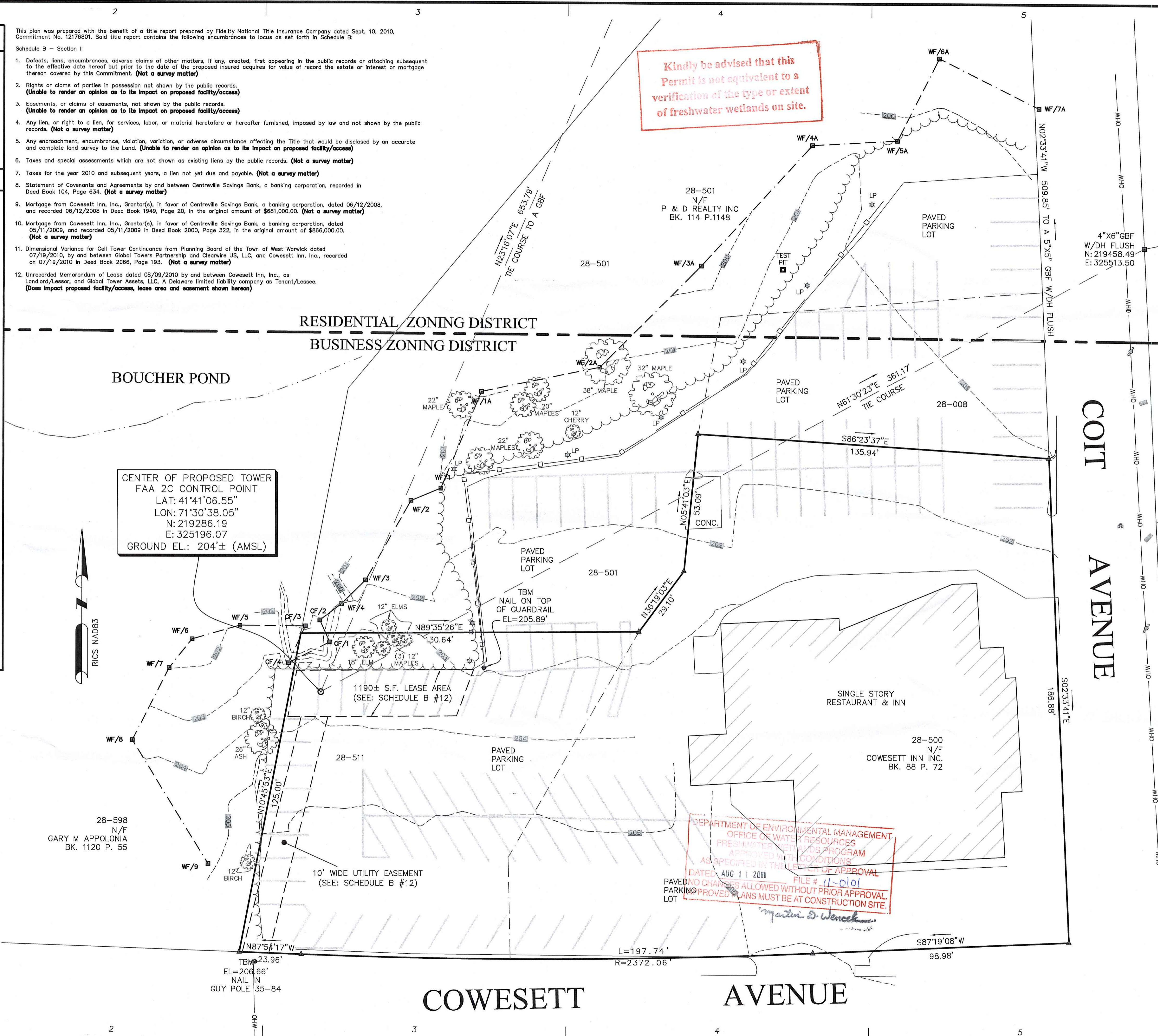


This plan was prepared with the benefit of a title report prepared by Fidelity National Title Insurance Company dated Sept. 10, 2010, Commitment No. 12176801. Said title report contains the following encumbrances to locus as set forth in Schedule B:

Schedule B - Section II

- Defects, liens, encumbrances, adverse claims of other matters, if any, created, first appearing in the public records or attaching subsequent to the effective date hereof but prior to the date of the proposed insured acquires for value of record the estate or interest or mortgage thereon covered by this Commitment. (Not a survey matter)
- Rights or claims of parties in possession not shown by the public records. (Unable to render an opinion as to its impact on proposed facility/access)
- Easements, or claims of easements, not shown by the public records. (Unable to render an opinion as to its impact on proposed facility/access)
- Any lien, or right to a lien, for services, labor, or material heretofore or hereafter furnished, imposed by law and not shown by the public records. (Not a survey matter)
- Any encroachment, encumbrance, violation, variation, or adverse circumstance affecting the Title that would be disclosed by an accurate and complete land survey to the Land. (Unable to render an opinion as to its impact on proposed facility/access)
- Taxes and special assessments which are not shown as existing liens by the public records. (Not a survey matter)
- Taxes for the year 2010 and subsequent years, a lien not yet due and payable. (Not a survey matter)
- Statement of Covenants and Agreements by and between Centreville Savings Bank, a banking corporation, recorded in Deed Book 104, Page 634. (Not a survey matter)
- Mortgage from Cowesett Inn, Inc., Grantor(s), in favor of Centreville Savings Bank, a banking corporation, dated 06/12/2008, and recorded 06/12/2008 in Deed Book 1949, Page 29, in the original amount of \$481,000.00. (Not a survey matter)
- Mortgage from Cowesett Inn, Inc., Grantor(s), in favor of Centreville Savings Bank, a banking corporation, dated 05/11/2009, and recorded 05/11/2009 in Deed Book 2000, Page 322, in the original amount of \$866,000.00. (Not a survey matter)
- Dimensional Variance for Cell Tower Continuance from Planning Board of the Town of West Warwick dated 07/19/2010, by and between Global Towers Partnership and Clearwire US, LLC, and Cowesett Inn, Inc., recorded on 07/19/2010 in Deed Book 2066, Page 193. (Not a survey matter)
- Unrecorded Memorandum of Lease dated 08/09/2010 by and between Cowesett Inn, Inc., as Landlord/Lessor, and Global Tower Assets, LLC, A Delaware limited liability company as Tenant/Lessee. (Does impact proposed facility/access, lease area and easement shown hereon)

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



ProTerra DESIGN GROUP, LLC
1 Short Street Suite 3 Northampton, MA 01060
Ph: (413)320-4918 Fax: (413)320-4917

CONSULTANTS:
NORTHEAST SURVEY CONSULTANTS
116 Pleasant St. Ste. 302 P.O. Box 109 Easthampton, MA 01027 (413) 203-5144 northeastsurvey.com

NO.	DATE	REVISIONS	ISSUED FOR CONSTRUCTION
A	5/26/11		

SITE NAME: CROMPTON
SITE: RI-5048
ADDRESS: 228 COWESETT AVE. WEST WARWICK, RI 02885

CLIENT:
GLOBAL TOWER PARTNERS
238 LITTLETON RD. STE. 205B
WESTFORD, MA 01086
750 PARK OF COMMERCE BLVD.
STE. 300
BOCA RATON, FL 33487

STAMP:
JOHN A. HALNON
No. 1906
PROFESSIONAL LAND SURVEYOR
John A. Halnon

DATE: 5/26/11
DRAWN: BCF
CHECK: DFS
SCALE: 1" = 20'
JOB NO.: -
SHEET TITLE:
EXISTING CONDITIONS MAP
C-1

Environmental Management
JUL 19 2011
Office of Water Resources

NOTE - TRIM TREE BRANCHES AS NECESSARY FOR INSTALLATION OF THE FACILITY UP TO THE ABUTTING PROPERTY LINE. NO TREE WORK PERMITTED TO EXTEND BEYOND PROPERTY LINE

MAP 28, LOT 8

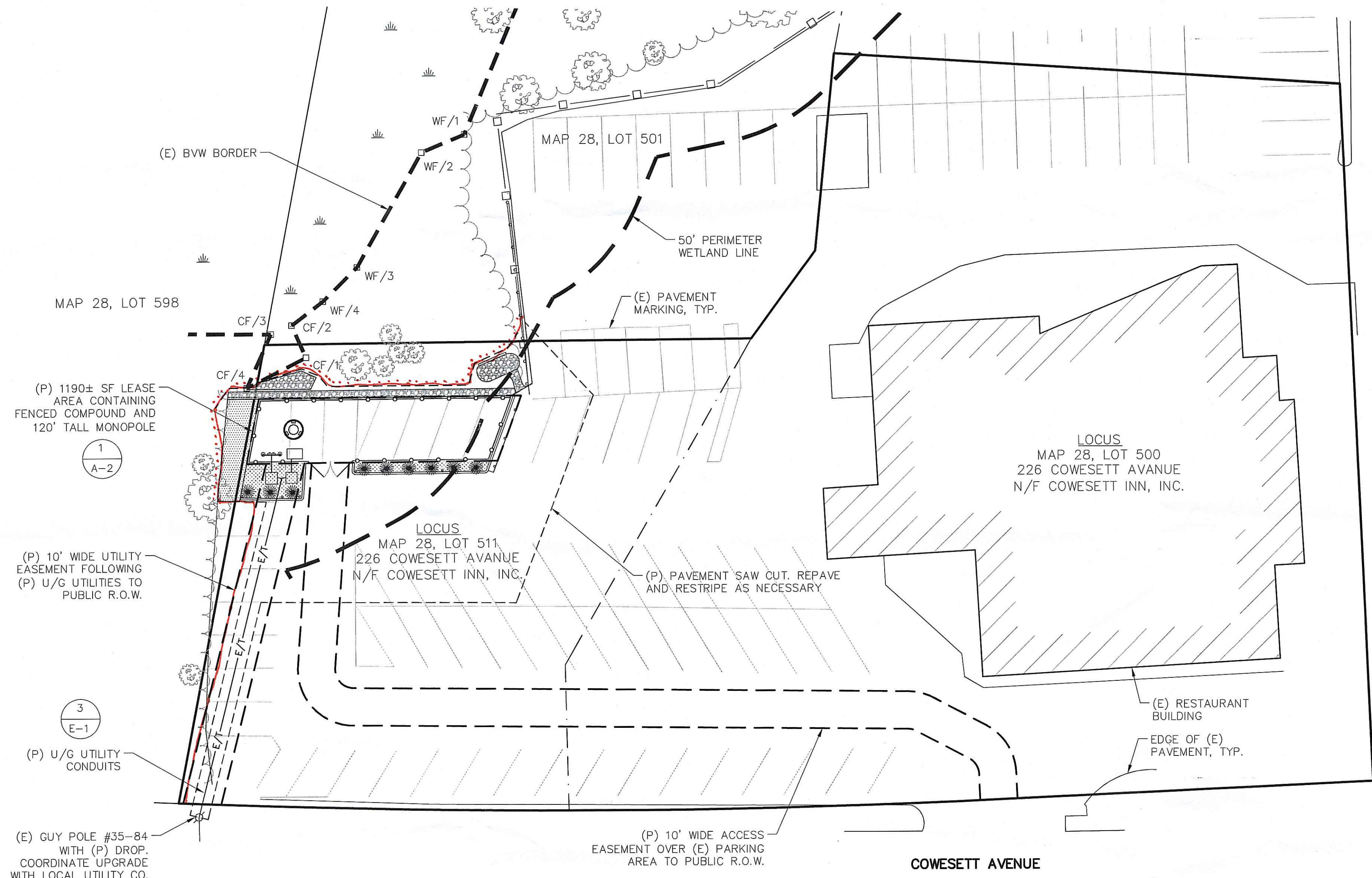
ZONING SUMMARY TABLE

ZONING DISTRICT: BUSINESS DISTRICT
 ASSESSORS ID: MAP 28, LOT 511
 (P) USE: WIRELESS COMMUNICATION FACILITY

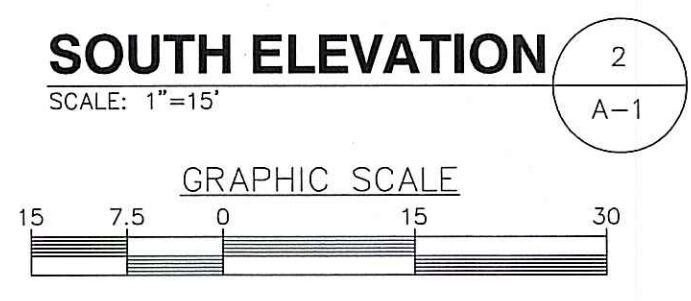
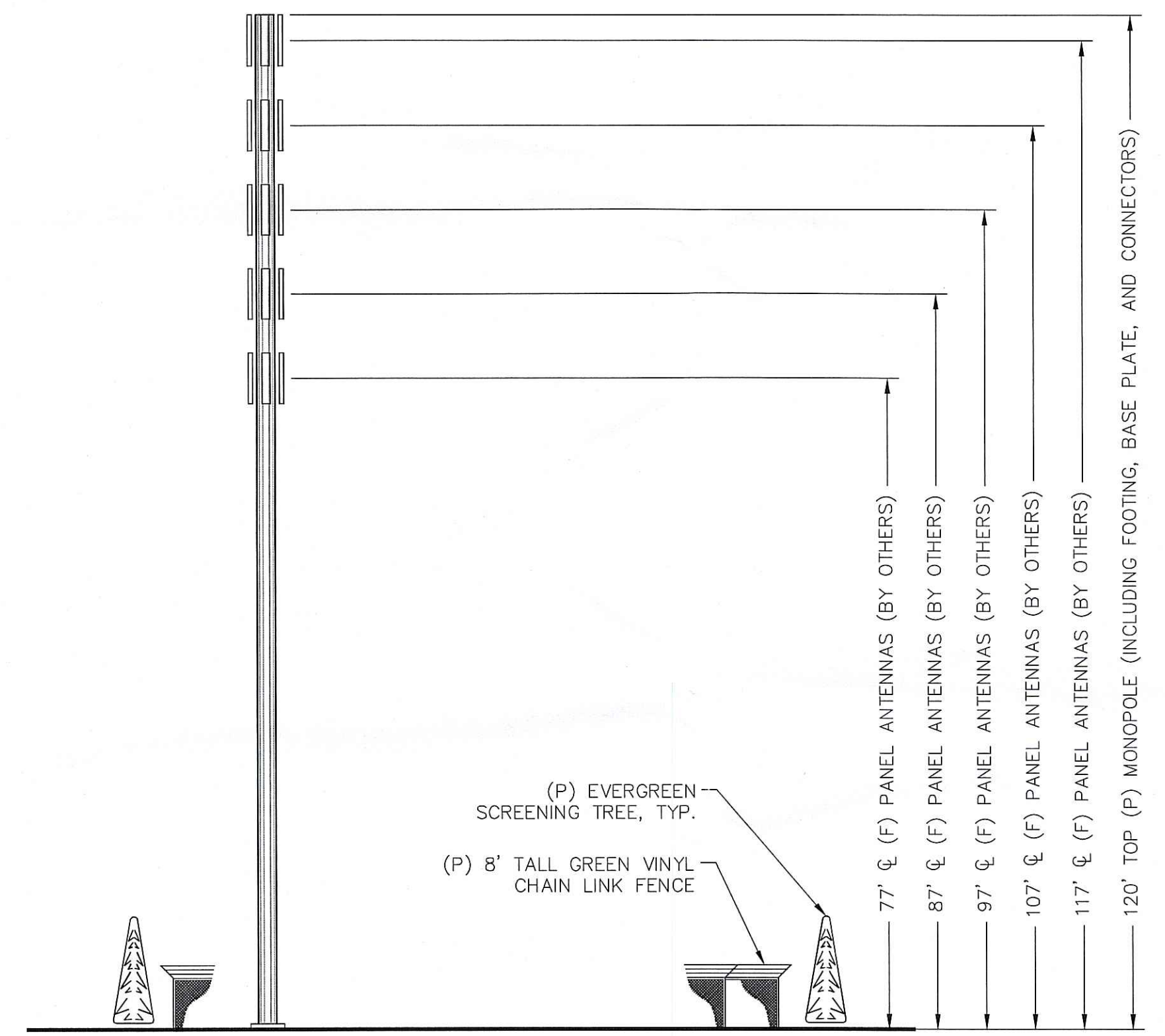
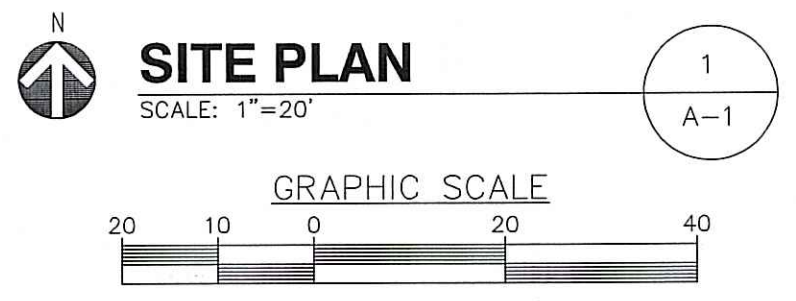
DIMENSION	PROVIDED	CONSTRAINT
EQUIPMENT - HEIGHT	12.0'	12.0'
COMPOUND - FRONT YARD	101'±	50.0'
COMPOUND - SIDE YARD	12'±	10.0'
COMPOUND - REAR YARD	23'±	10.0'
TOWER - HEIGHT	120.0'	90.0'
TOWER - DISTANCE TO PROPERTY LINE	12'±	240.0'
TOWER - DISTANCE TO PUBLIC ROAD	101'±	180.0'
TOWER - DISTANCE TO RESIDENTIAL PROPERTY	139'±	200.0'

SPECIAL PERMIT FILED WITH TOWN OF WEST WARWICK DATED MAY 3, 2011 RECORDED AS BOOK 2109, PAGE 89 EXPIRES JUNE 30, 2012

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.



PER RIDEM:
 - Limit of disturbance.
 ... Erosion Controls.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED AUG 11 2011 FILE # 11-0101
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Martin D. Wencel

ProTerra
 DESIGN GROUP, LLC

1 Short Street
 Suite 3
 Northampton, MA 01060
 Ph: (413)320-4918
 Fax: (413)320-4917

CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/1/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/6/11	CONSTRUCTION FINAL

SITE NAME: CROMPTON
SITE NUMBER: RI-5048
ADDRESS: 226 COWESETT AVENUE
WEST WARWICK, RI 02893

238 LITTLETON ROAD
 SUITE 205B
 WESTFORD, MA 01886

GTP

JESSE M. MORENO
 NO. 9211
 REGISTERED PROFESSIONAL ENGINEER (CIVIL)

DATE: 6/15/11
 DRAWN: MJV
 CHECK: JMM/TEJ
 SCALE: SEE PLAN
 JOB NO.: 11-045

SHEET TITLE:
PLAN & ELEVATION
A-1

Environmental Management
 JUL 18 2011
 Office of Water Resources

CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/1/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/6/11	CONSTRUCTION FINAL

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SITE NAME: CROMPTON
SITE NUMBER: RI-6048
ADDRESS: 226 COMWELL AVENUE
WEST WARWICK, RI 02888

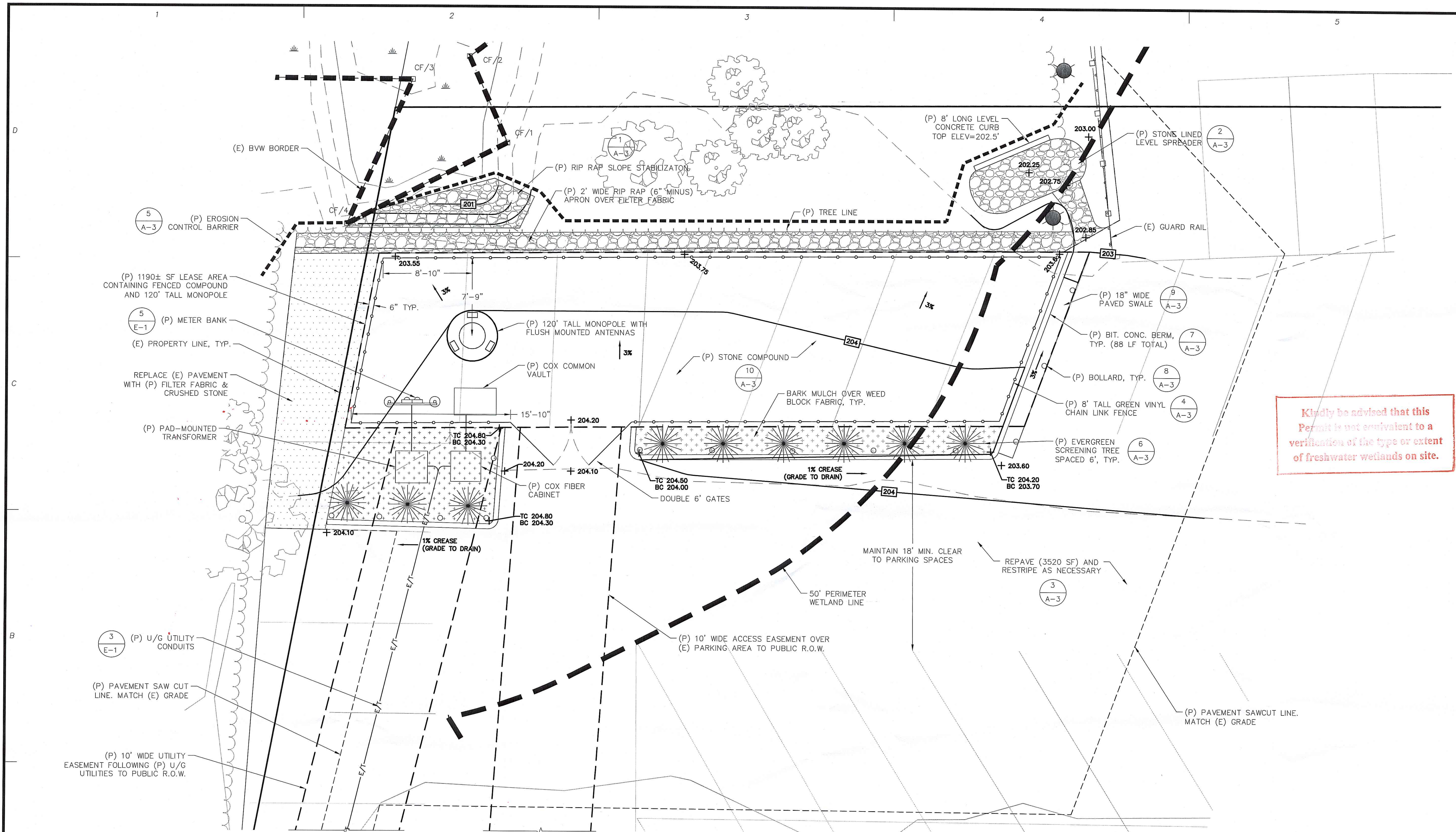
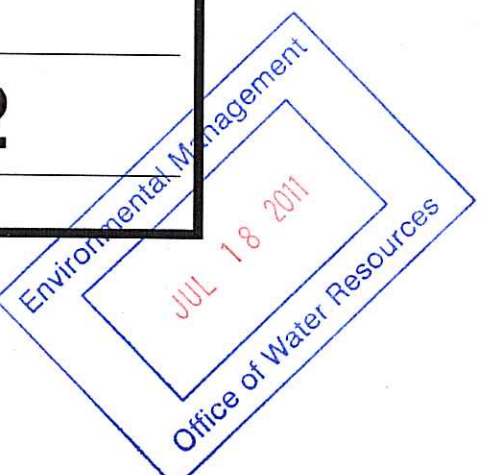
238 LITTLETON ROAD
SUITE 205B
WESTFORD, MA 01886



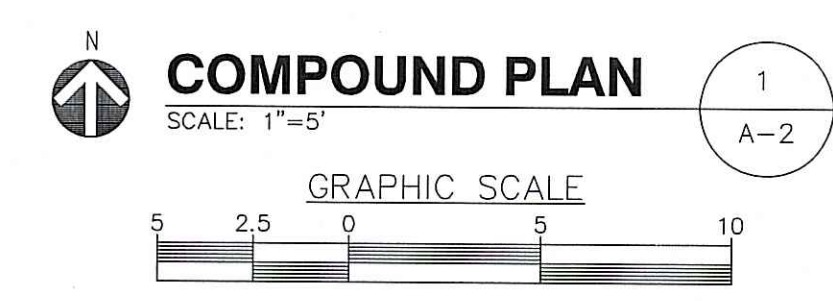
DATE: 6/15/11
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 11-045
SHEET TITLE:

PLAN & DETAILS

A-2

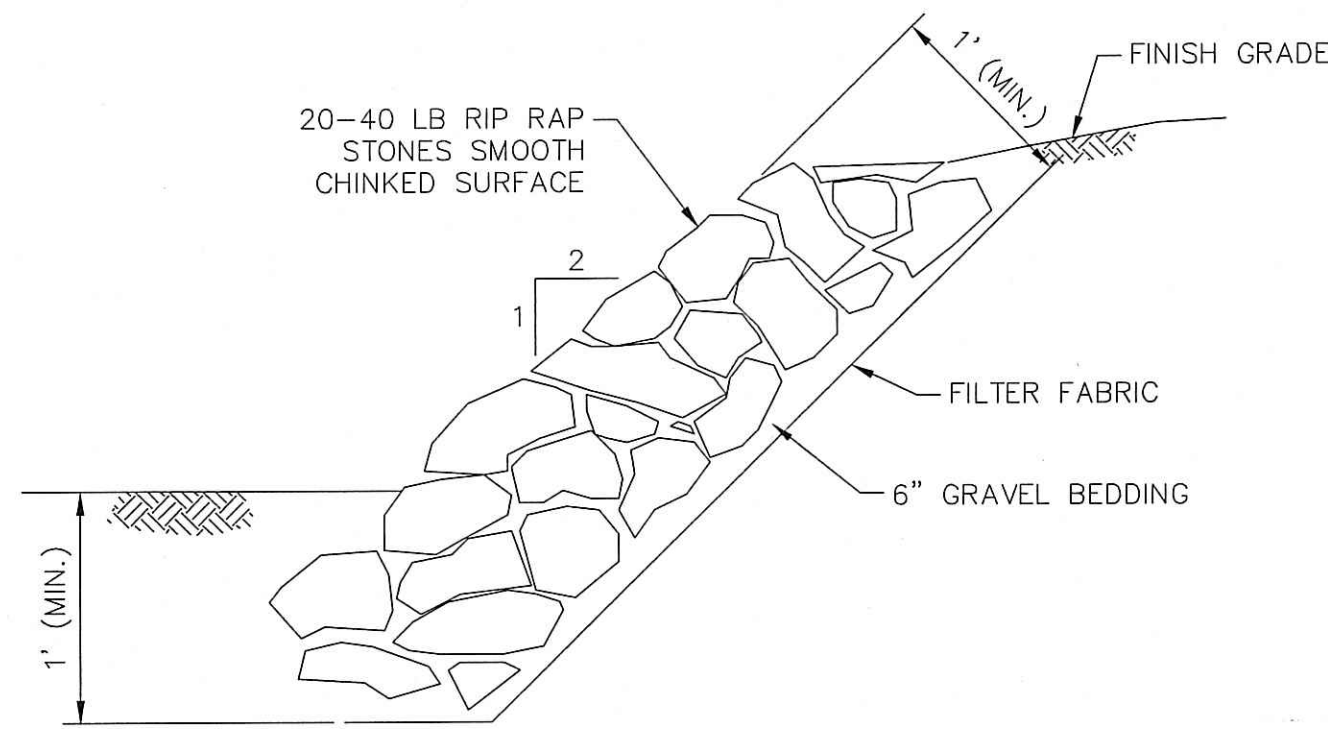


NOTE - TRIM TREE BRANCHES AS NECESSARY FOR INSTALLATION OF THE FACILITY UP TO THE ABUTTING PROPERTY LINE. NO TREE WORK PERMITTED TO EXTEND BEYOND PROPERTY LINE



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
AS SPECIFIED WITH CONDITIONS
DATED AUG 11 2011 FILE # 11-0101
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APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Martin D. Wenczel

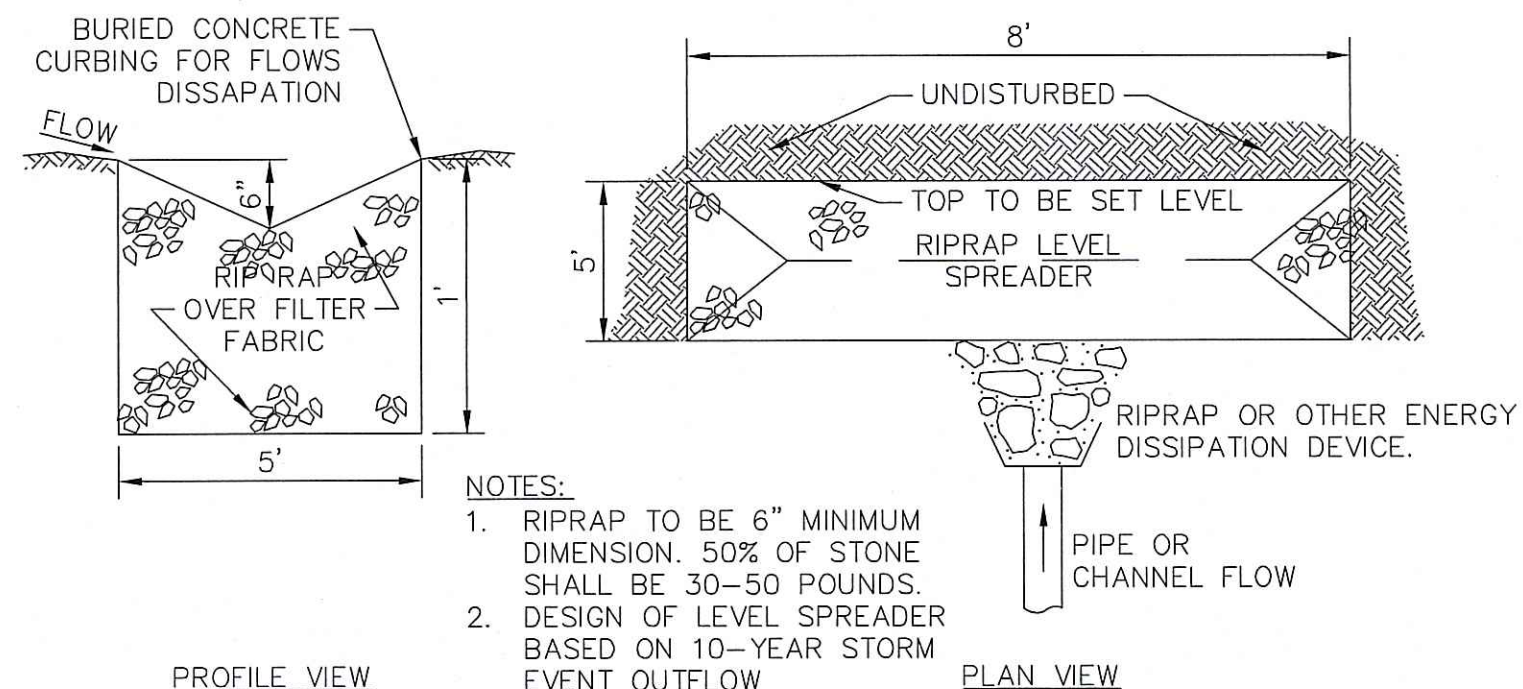


RIP RAP SLOPE PROTECTION

SCALE: NTS

1

A-3

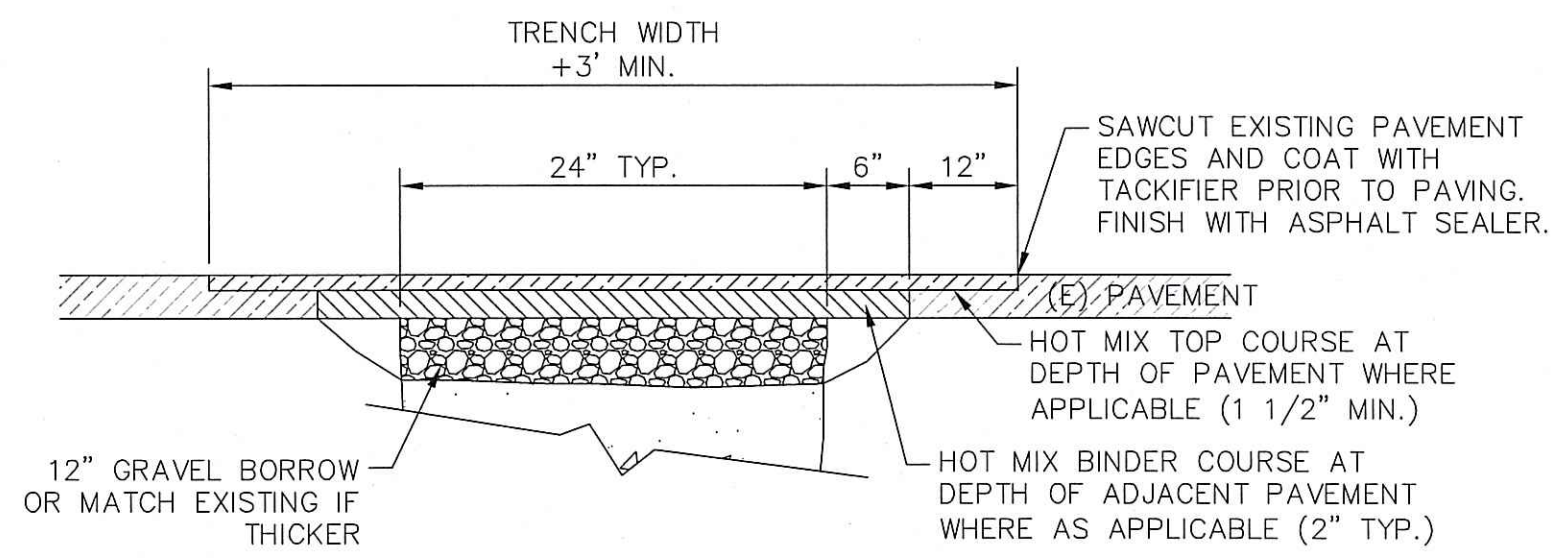


LEVEL SPREADER

SCALE: NTS

2

A-3

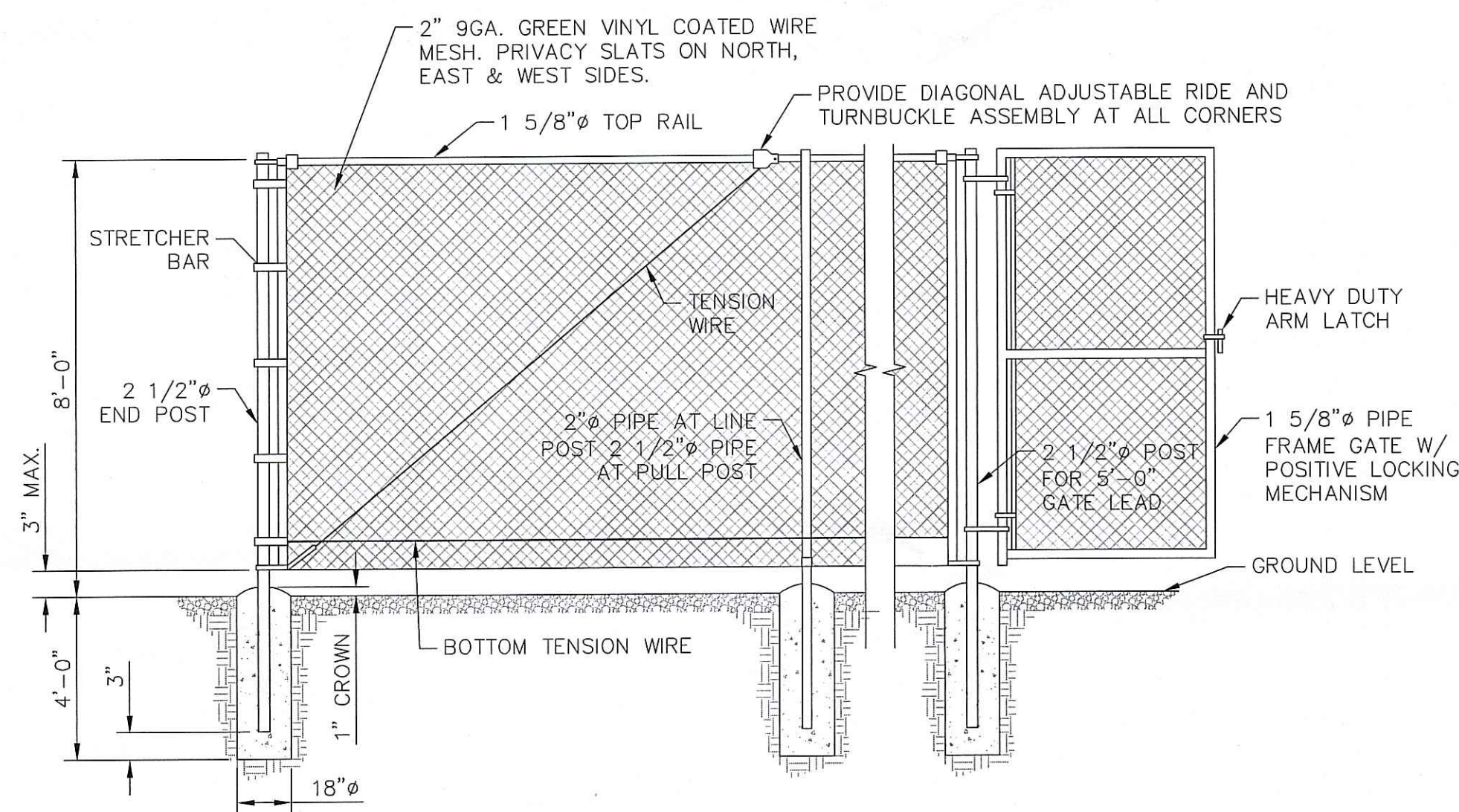


PAVEMENT PATCH

SCALE: NTS

3

A-3

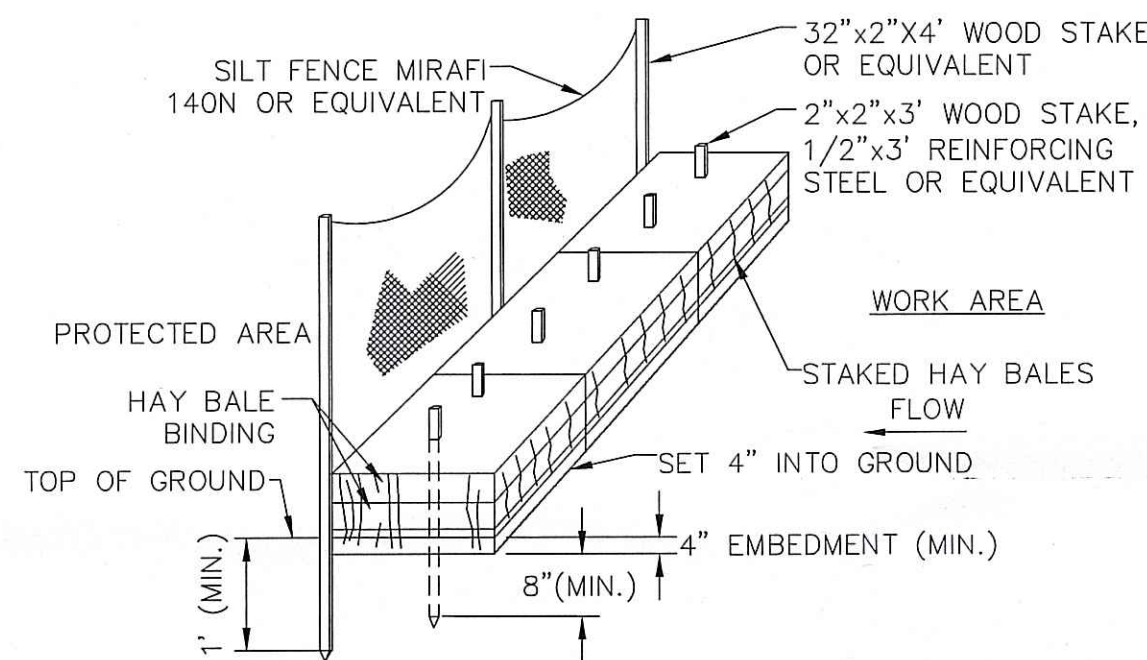


CHAIN LINK FENCE

SCALE: NTS

4

A-3



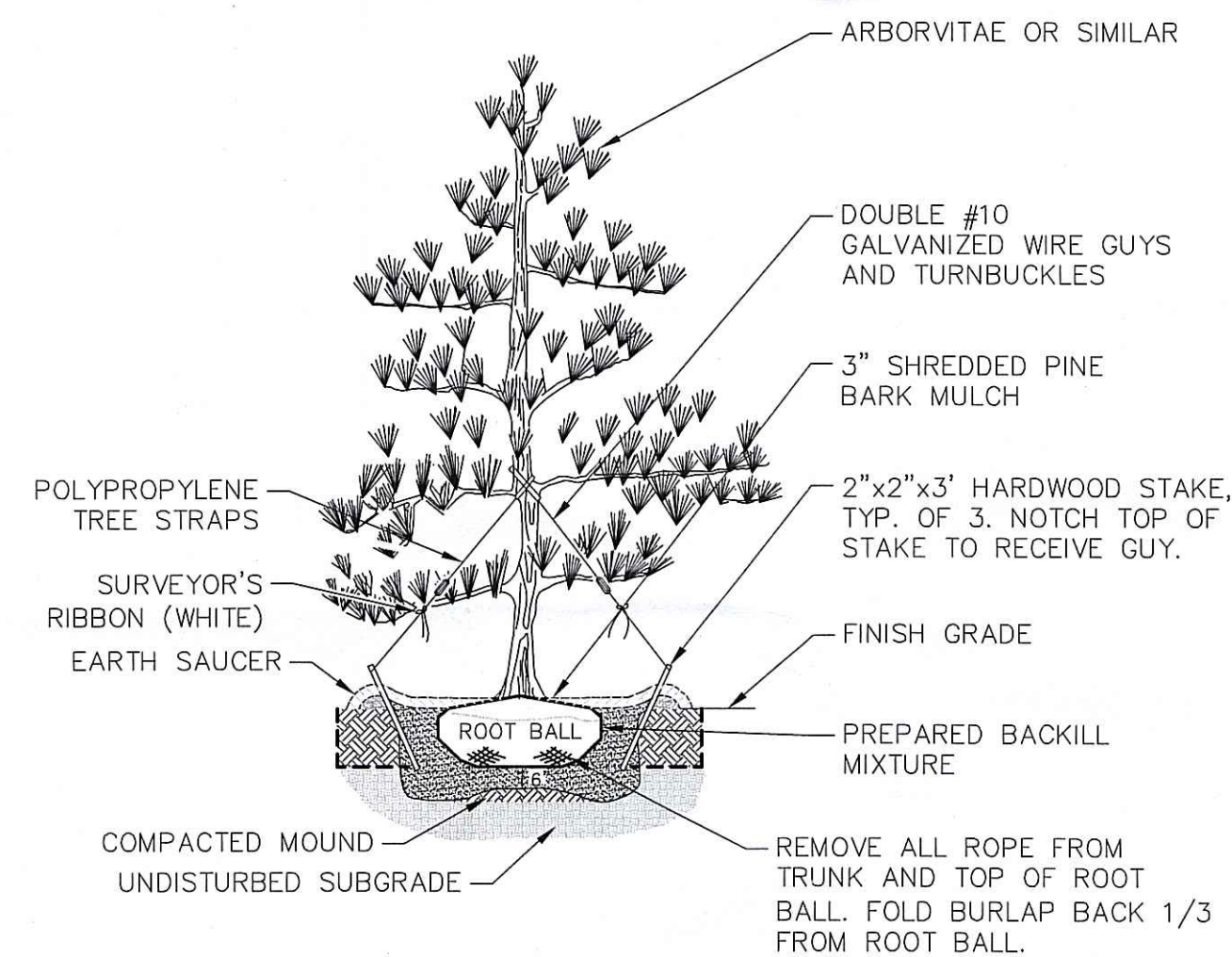
EROSION CONTROL BARRIER

SCALE: NTS

5

A-3

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

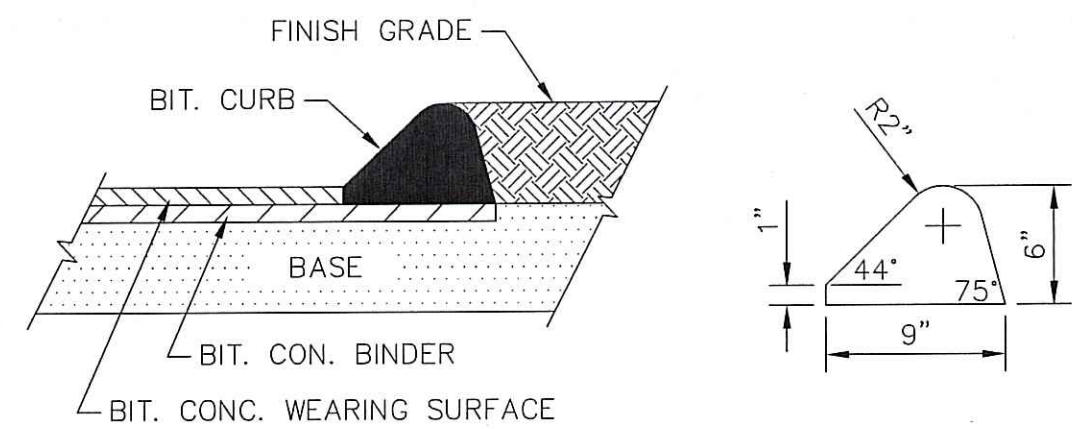


EVERGREEN TREE PLANTING

SCALE: NTS

6

A-3

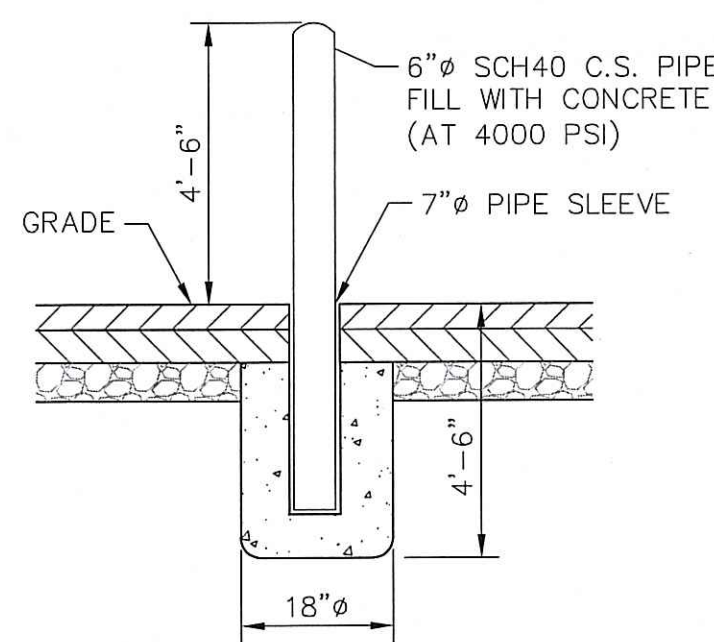


BIT. CONC. CURB

SCALE: NTS

7

A-3

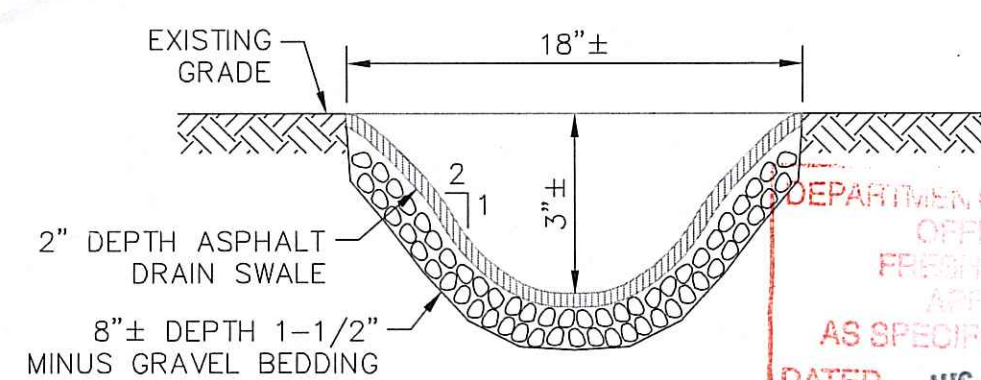


BOLLARD

SCALE: NTS

8

A-3

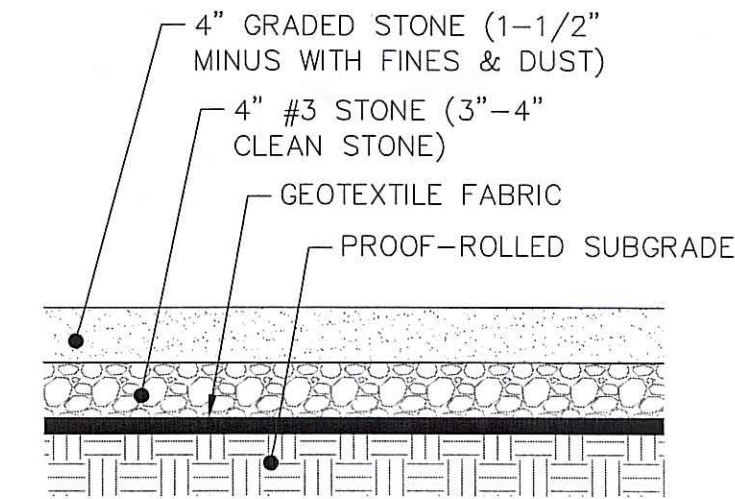


BIT. CONC. SWALE

SCALE: NTS

9

A-3



COMPOUND SURFACE

SCALE: NTS

10

A-3

ProTerra
DESIGN GROUP, LLC

1 Short Street
Suite 3
Northampton, MA 01060
Ph: (413)320-4918
Fax: (413)320-4917

CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/1/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/6/11	CONSTRUCTION FINAL

SITE NAME: CROMPTON
SITE NUMBER: RI-5048
ADDRESS: 226 COVSETT AVENUE
WEST WARWICK, RI 02893

238 LITTLETON ROAD
SUITE 205B
WESTFORD, MA 01886

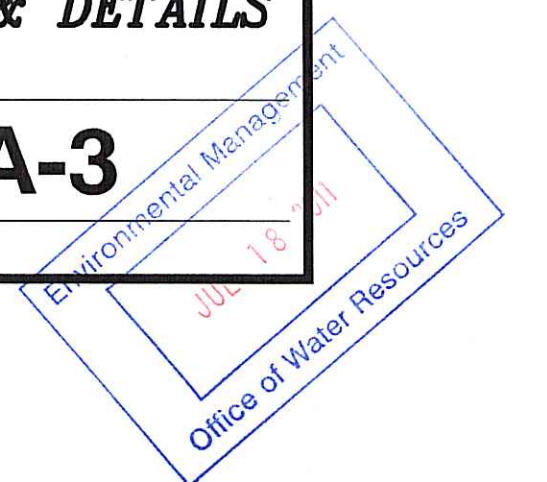


DATE: 6/15/11
DRAWN: MUV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 11-045

SHEET TITLE:

PLAN & DETAILS

A-3

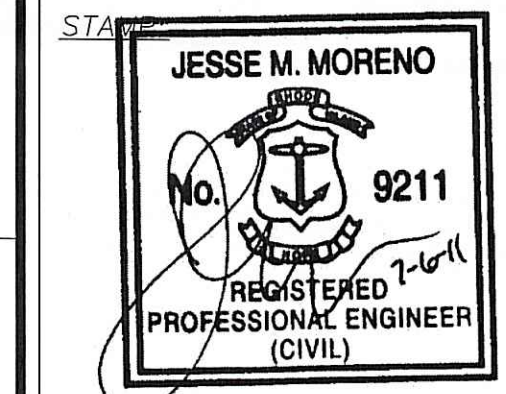


CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/7/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/6/11	CONSTRUCTION FINAL

SITE NAME: CROMPTON
SITE NUMBER: RI-5048
ADDRESS: 228 CONESETT AVENUE
WEST WARWICK, RI 02893

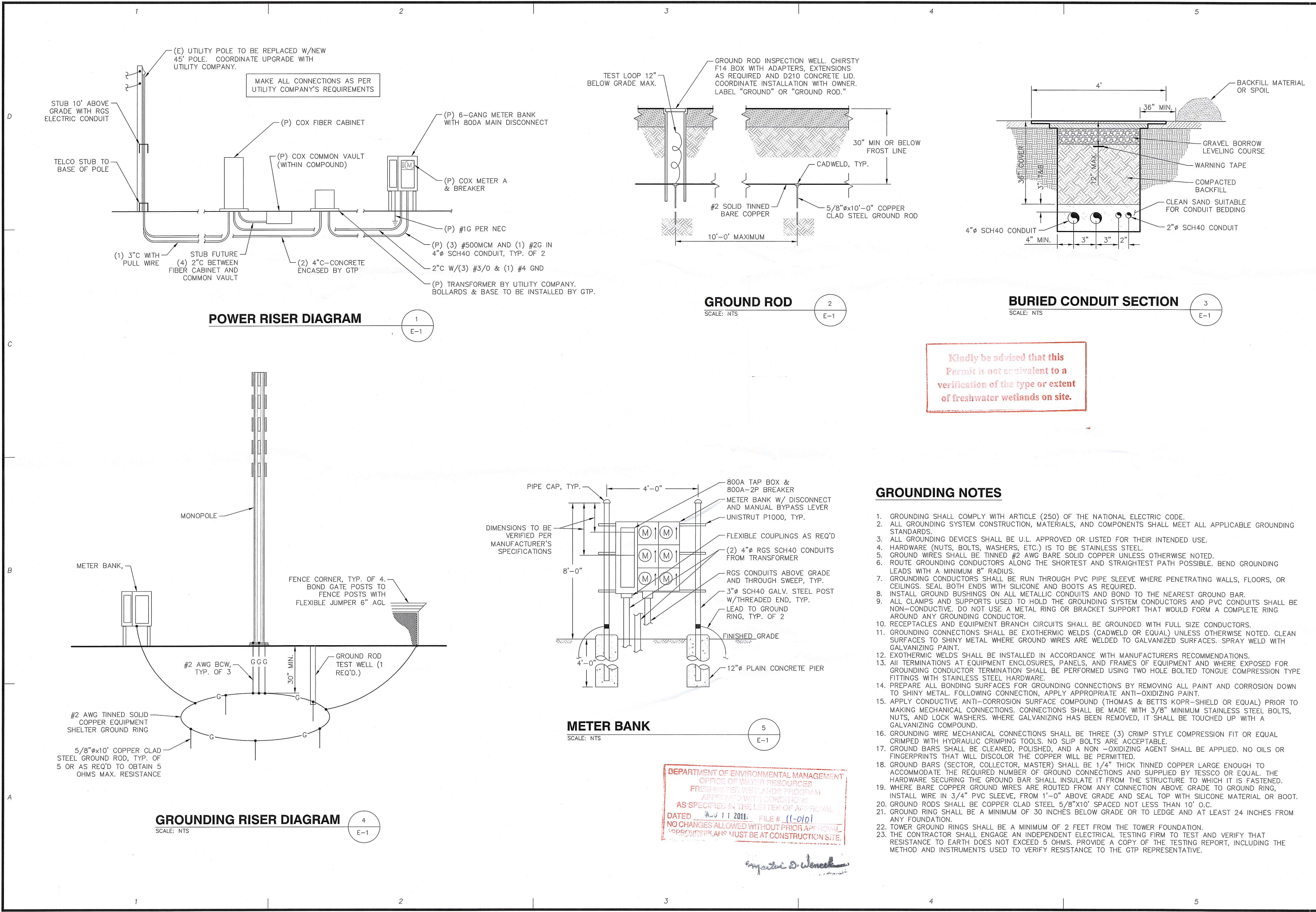
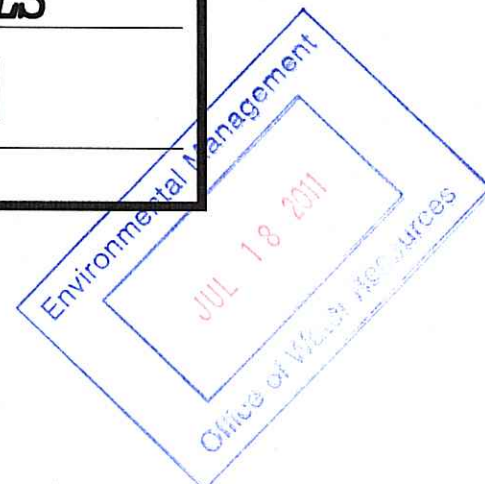
228 LITTLETON ROAD
SUITE 205B
WESTFORD, MA 01886



DATE: 6/15/11
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 11-045

SHEET TITLE:
ELECTRICAL & GROUNDING DETAILS

E-1



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

GROUNDING NOTES

- GROUNDING SHALL COMPLY WITH ARTICLE (250) OF THE NATIONAL ELECTRIC CODE.
- ALL GROUNDING SYSTEM CONSTRUCTION, MATERIALS, AND COMPONENTS SHALL MEET ALL APPLICABLE GROUNDING STANDARDS.
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- HARDWARE (NUTS, BOLTS, WASHERS, ETC.) IS TO BE STAINLESS STEEL.
- GROUND WIRES SHALL BE TINNED #2 AWG BARE SOLID COPPER UNLESS OTHERWISE NOTED.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 8" RADIUS.
- GROUNDING CONDUCTORS SHALL BE RUN THROUGH PVC PIPE SLEEVE WHERE PENETRATING WALLS, FLOORS, OR CEILINGS. SEAL BOTH ENDS WITH SILICONE AND BOOTS AS REQUIRED.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE NEAREST GROUND BAR.
- ALL CLAMPS AND SUPPORTS USED TO HOLD THE GROUNDING SYSTEM CONDUCTORS AND PVC CONDUITS SHALL BE NON-CONDUCTIVE. DO NOT USE A METAL RING OR BRACKET SUPPORT THAT WOULD FORM A COMPLETE RING AROUND ANY GROUNDING CONDUCTOR.
- RECEPTACLES AND EQUIPMENT BRANCH CIRCUITS SHALL BE GROUNDING WITH FULL SIZE CONDUCTORS.
- GROUNDING CONNECTIONS SHALL BE EXOTHERMIC WELDS (CADWELD OR EQUAL) UNLESS OTHERWISE NOTED. CLEAN SURFACES TO SHINY METAL WHERE GROUND WIRES ARE WELDED TO GALVANIZED SURFACES. SPRAY WELD WITH GALVANIZING PAINT.
- EXOTHERMIC WELDS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL TERMINATIONS AT EQUIPMENT ENCLOSURES, PANELS, AND FRAMES OF EQUIPMENT AND WHERE EXPOSED FOR GROUNDING CONDUCTOR TERMINATION SHALL BE PERFORMED USING TWO HOLE BOLTED TONGUE COMPRESSION TYPE FITTINGS WITH STAINLESS STEEL HARDWARE.
- PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZING PAINT.
- APPLY CONDUCTIVE ANTI-CORROSION SURFACE COMPOUND (THOMAS & BETTS KOPR-SHIELD OR EQUAL) PRIOR TO MAKING MECHANICAL CONNECTIONS. CONNECTIONS SHALL BE MADE WITH 3/8" MINIMUM STAINLESS STEEL BOLTS, NUTS, AND LOCK WASHERS. WHERE GALVANIZING HAS BEEN REMOVED, IT SHALL BE TOUCHED UP WITH A GALVANIZING COMPOUND.
- GROUNDING WIRE MECHANICAL CONNECTIONS SHALL BE THREE (3) CRIMP STYLE COMPRESSION FIT OR EQUAL CRIMPED WITH HYDRAULIC CRIMPING TOOLS. NO SLIP BOLTS ARE ACCEPTABLE.
- GROUND BARS SHALL BE CLEANED, POLISHED, AND A NON-OXIDIZING AGENT SHALL BE APPLIED. NO OILS OR FINGERPRINTS THAT WILL DISCOLOR THE COPPER WILL BE PERMITTED.
- GROUND BARS (SECTOR, COLLECTOR, MASTER) SHALL BE 1/4" THICK TINNED COPPER LARGE ENOUGH TO ACCOMMODATE THE REQUIRED NUMBER OF GROUND CONNECTIONS AND SUPPLIED BY TESSCO OR EQUAL. THE HARDWARE SECURING THE GROUND BAR SHALL INSULATE IT FROM THE STRUCTURE TO WHICH IT IS FASTENED.
- WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1'-0" ABOVE GRADE AND SEAL TOP WITH SILICONE MATERIAL OR BOOT.
- GROUND RODS SHALL BE COPPER CLAD STEEL 5/8"x10" SPACED NOT LESS THAN 10' O.C.
- GROUND RING SHALL BE A MINIMUM OF 30 INCHES BELOW GRADE OR TO LEDGE AND AT LEAST 24 INCHES FROM ANY FOUNDATION.
- TOWER GROUND RINGS SHALL BE A MINIMUM OF 2 FEET FROM THE TOWER FOUNDATION.
- THE CONTRACTOR SHALL ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT RESISTANCE TO EARTH DOES NOT EXCEED 5 OHMS. PROVIDE A COPY OF THE TESTING REPORT, INCLUDING THE METHOD AND INSTRUMENTS USED TO VERIFY RESISTANCE TO THE GTP REPRESENTATIVE.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
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Jessie D. Weneck

LINE TABLE		
LINE #	LENGTH	BEARING
L1	18.45'	S20° 07' 54"W
L2	67.35'	S89° 35' 26"W
L3	17.61'	N10° 45' 53"E
L4	70.41'	N89° 35' 26"E
L5	94.32'	S13° 51' 30"W
L6	10.21'	N87° 54' 17"W
L7	93.86'	N13° 51' 30"E
L8	10.32'	N89° 35' 26"E
L9	10.00'	S87° 29' 14"W
L10	7.05'	N02° 30' 46"W
L11	15.96'	N62° 18' 16"W
L12	148.78'	N89° 23' 12"W
L13	54.58'	N03° 59' 18"E
L14	10.03'	N89° 35' 26"E
L15	55.35'	S03° 59' 18"W

LINE TABLE		
LINE #	LENGTH	BEARING
L16	148.78'	S89° 23' 12"E
L17	15.96'	S62° 18' 16"E
L18	7.05'	S02° 30' 46"E
L19	304.09'	S57° 26' 35"W
L20	363.04'	S60° 01' 59"W
L21	298.91'	S24° 23' 52"W

CURVE TABLE			
CURVE #	LENGTH	RADIUS	CHORD
C1	5.22	5.00	N32° 24' 31"W
C2	2.36	5.00	N75° 50' 44"W
C3	24.45	15.00	N42° 41' 57"W
C4	8.15	5.00	S42° 41' 57"E
C5	7.09	15.00	S75° 50' 44"E
C6	15.65	15.00	S32° 24' 31"E

LEASE AREA DESCRIPTION

BEING a tract of land designated Assessor's Map 28, Lot 511 located in the Town of West Warwick, Kent County, Rhode Island now or formerly possessed by Cowesett Inn, Inc. also being out of and a portion of that certain tract, and being more particularly described by metes and bounds as follows:

COMMENCING at a 4"x8" granite bound located at the southwestern corner of Assessor's Map 28, Lot 530 and the northwestern corner of Assessor's Map 28, Lot 548 along the eastern boundary of Coit Avenue;

THENCE through Coit Avenue and the interior of Assessor's Map 28 Lot 8, Assessor's Map 28 Lot 500, Assessor's Map 28 Lot 501 and said Cowesett Inn tract, S57°26'35"W a distance of 304.09' to the northeastern corner of the lease area described hereon and the POINT OF BEGINNING hereof;

THENCE continuing through the interior of said Cowesett Inn tract the following four (4) courses:

1. S20°07'54"W a distance of 18.45' to a point;
2. S89°35'26"W a distance of 67.35' to a point;
3. N10°45'53"E a distance of 17.61' to a point;
4. N89°35'26"E a distance of 70.41' to the POINT OF BEGINNING hereof and containing 1190± square feet of land.

UTILITY EASEMENT DESCRIPTION

BEING a tract of land designated Assessor's Map 28, Lot 511 located in the Town of West Warwick, Kent County, Rhode Island now or formerly possessed by Cowesett Inn, Inc. also being out of and a portion of that certain tract, and being more particularly described by metes and bounds as follows:

COMMENCING at a 4"x8" granite bound located at the southwestern corner of Assessor's Map 28, Lot 530 and the northwestern corner of Assessor's Map 28, Lot 548 along the eastern boundary of Coit Avenue;

THENCE through Coit Avenue and the interior of Assessor's Map 28 Lot 8, Assessor's Map 28 Lot 500, Assessor's Map 28 Lot 501 and said Cowesett Inn tract, S60°01'59"W a distance of 363.04' to the northeast corner of the lease area described hereon, a point on the southern line of said Lease Area, and the POINT OF BEGINNING hereof;

THENCE continuing through the interior of said Cowesett Inn tract the following four (4) courses:

1. S13°51'30"W± a distance of 94.32± to a point along the southern line of said Cowesett Inn tract;
2. N87°54'17"W± a distance of 10.21± to a point along the southern line of said Cowesett Inn tract;
3. N13°51'30"E± a distance of 93.86± to a point on the southern line of said Lease Area;
4. N89°35'26"E a distance of 10.32' along the southern line of said Lease Area to the POINT OF BEGINNING hereof and containing 941± square feet of land.

ACCESS EASEMENT DESCRIPTION

BEING two tracts of land designated Assessor's Map 28, Lot 511 and Lot 510 located in the Town of West Warwick, Kent County, Rhode Island each now or formerly possessed by Cowesett Inn, Inc. also being out of and a portion of those tracts, and being more particularly described by metes and bounds as follows:

COMMENCING at a 4"x8" granite bound located at the southwestern corner of Assessor's Map 28, Lot 530 and the northwestern corner of Assessor's Map 28, Lot 548 along the eastern boundary of Coit Avenue;

THENCE through Coit Avenue and the interior of said Cowesett Inn tract, S24°23'52"W a distance of 298.91' to the southeast corner of the lease area described hereon, a point on the southern line of said Cowesett Inn tract, and the POINT OF BEGINNING hereof;

THENCE continuing through the interior of said Cowesett Inn tracts the following sixteen (16) courses:

1. S87°29'14"E± a distance of 10.00± along the southern line of said Cowesett Inn tract to a point;
2. N02°30'46"W a distance of 7.05' to a point;
3. Along a curve with a chord of N32°24'31"E, radius of 5.00', and a length of 5.22' to a point;
4. N62°18'16"W a distance of 15.96' to a point;
5. Along a curve with a chord of N75°50'44"E, radius of 5.00', and a length of 2.36' to a point;
6. N89°23'12"W a distance of 148.78' to a point;
7. Along a curve with a chord of N42°41'57"E, radius of 15.00', and a length of 24.45' to a point;
8. N03°59'18"E a distance of 54.58' to a point along the southern line of said Lease Area;
9. N89°35'26"E a distance of 10.03' to a point along the southern line of said Lease Area;
10. S03°59'18"W a distance of 55.35' to a point;
11. Along a curve with a chord of S42°41'57"E, radius of 5.00', and a length of 8.15' to a point;
12. S89°23'12"E a distance of 148.78' to a point;
13. Along a curve with a chord of S75°50'44"E, radius of 15.00', and a length of 7.09' to a point;
14. S62°18'16"E a distance of 15.96' to a point;
15. Along a curve with a chord of S32°24'31"E, radius of 15.00', and a length of 15.65' to a point;
16. S02°30'46"E a distance of 7.05' to a point along the southern line of said Cowesett Inn tracts being the POINT OF BEGINNING hereof and containing 2582± square feet of land.

ProTerra
DESIGN GROUP, LLC

1 Short Street
Suite 3
Northampton, MA 01060
Ph: (413)320-4918
Fax: (413)320-4917

CONSULTANTS:

NO.	DATE	REVISIONS
0	5/27/11	ISSUED FOR CONSTRUCTION
1	6/7/11	CONSTRUCTION REVISED
2	6/15/11	CONSTRUCTION FINAL
3	7/6/11	CONSTRUCTION FINAL

SITE NAME: CROMPTON
SITE NUMBER: RI-5048
ADDRESS: 226 COWESETT AVENUE
WEST WARWICK, RI 02893

238 LITTLETON ROAD
SUITE 205B
WESTFORD, MA 01886

GTP
Geotechnical & Professional Services

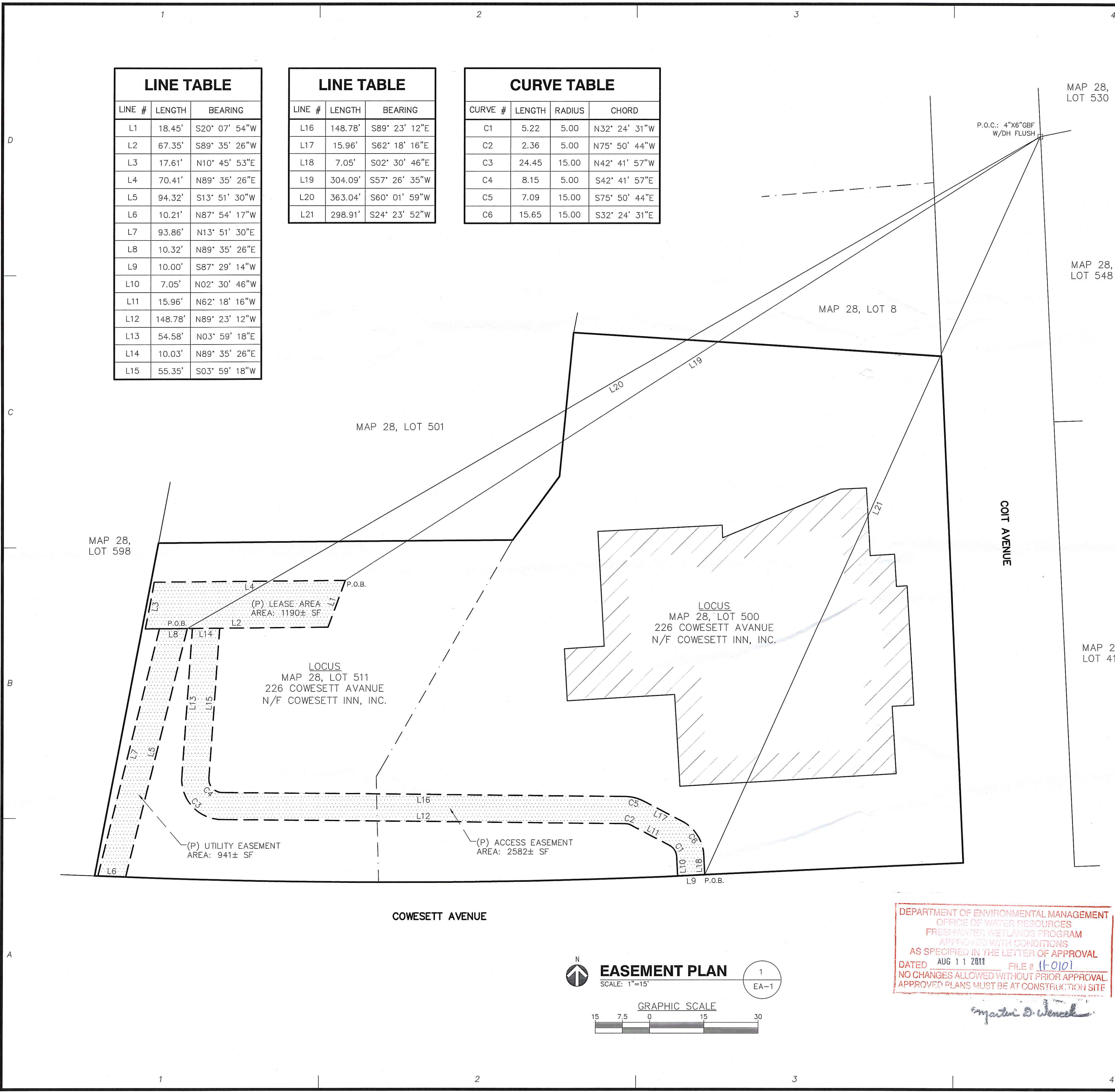
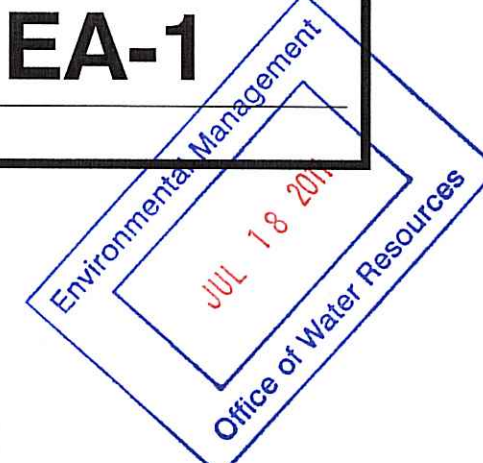


DATE: 6/15/11
DRAWN: MJV
CHECK: JMM/TEJ
SCALE: SEE PLAN
JOB NO.: 11-045

SHEET TITLE:

EASEMENT PLAN

EA-1



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED AUG 11 2011 FILE # 11-010
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

Martin S. Wenzel

