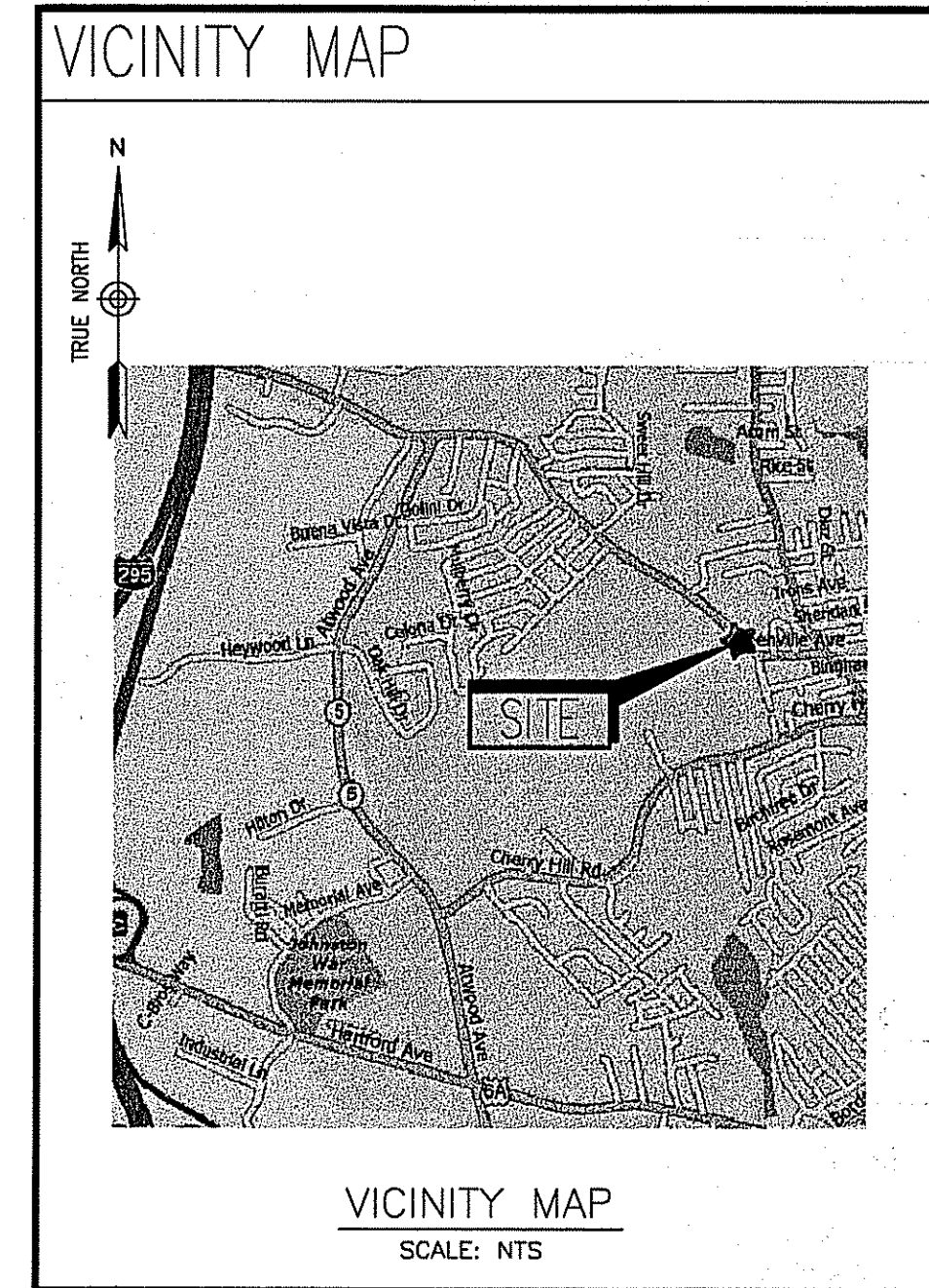


BAFFONI'S PAVING RAWLAND

316 GREENVILLE AVENUE
 JOHNSTON, RHODE ISLAND 02919
 SITE NO: 4PR-0244-A
 RAW LAND

T-MOBILE TECHNICIAN SITE SAFETY NOTES	
LOCATION	SPECIAL RESTRICTIONS
SECTOR A:	ACCESS NOT PERMITTED
SECTOR B:	ACCESS NOT PERMITTED
SECTION C:	ACCESS NOT PERMITTED
GPS/LMU:	ACCESS NOT PERMITTED
RADIO CABINETS:	UNRESTRICTED
PPC DISCONNECT:	UNRESTRICTED
MAIN CIRCUIT D/C:	UNRESTRICTED
NIU/T-1 DEMARC:	UNRESTRICTED
OTHERS/SPECIAL:	N/A

GENERAL NOTES	
<p>1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES.</p> <p>2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.</p> <p>3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE PROJECT OWNER'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.</p> <p>4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.</p> <p>5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.</p> <p>6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE PROJECT OWNER'S REPRESENTATIVE TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS / CONTRACT DOCUMENTS.</p> <p>7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S / VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.</p> <p>8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.</p> <p>9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.</p>	<p>10. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS, ESTABLISHING AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS AS SHOWN HEREIN.</p> <p>11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.</p> <p>12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.</p> <p>13. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.</p> <p>14. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.</p> <p>15. WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS, THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE LESSEE/LICENSEE REPRESENTATIVE.</p> <p>16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC. ON THE JOB.</p> <p>17. 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, ME, NH, RI, VT): 1-888-344-7233 CALL BEFORE YOU DIG (CT): 1-800-922-4455</p>



DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNER'S REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

SHEET INDEX		
SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	4
C-1	EXISTING CONDITIONS PLAN	4
A-1	SITE PLAN	4
A-2	PLAN, ELEVATION, AND DETAILS	4
EC-1	EROSION CONTROL PLAN, SOIL MANAGEMENT CRITERIA, AND DETAILS	4
S-1	STRUCTURAL NOTES, PLANS, SECTIONS, AND DETAILS	4
E-1	ELEC. & GROUNDING NOTES, RISERS, AND DETAILS	4
EME-1	RF EME SAFETY PLAN	0
EME-2	RF EME SIGNAGE PLAN	0
EME-3	EME DATA TABLE	0

THE FOLLOWING SHEETS ARE USED ONLY FOR FEDERAL REGULATORY COMPLIANCE UNDER FCC AND OSHA STANDARDS. BUILDING CODE LIFE AND SAFETY PROVISIONS ARE NOT APPLICABLE AND THEREFORE THESE SHEETS HAVE BEEN OMITTED FOR STATE/LOCAL PERMITTING AND CONSTRUCTION CONTROL.

PROJECT SUMMARY	
SITE NUMBER:	4PR-0244-A
SITE NAME:	BAFFONI'S PAVING RAWLAND
SITE ADDRESS:	316 GREENVILLE AVENUE JOHNSTON, RI 02919
ASSESSOR'S PARCEL NO.:	MAP 47, LOT 51
DEED BOOK/PAGE:	326/261
ZONING DISTRICT:	RESIDENTIAL R20
CONSTRUCTION TYPE:	RAW LAND
PROPERTY OWNER:	JOHN AND DARLENE BAFFONI 316 GREENVILLE AVENUE JOHNSTON, RI 02919
STRUCTURE OWNER:	OMNIPPOINT COMMUNICATIONS, INC. 15 COMMERCE WAY, SUITE B NORTON, MA 02766
APPLICANT, LESSEE/LICENSEE, PROJECT OWNER:	OMNIPPOINT COMMUNICATIONS, INC. 15 COMMERCE WAY, SUITE B NORTON, MA 02766

RECEIVED
 APR 23 2009
 DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF WATER RESOURCES
 FRESHWATER WETLANDS PROGRAM
 APPROVED WITH CONDITIONS
 AS SPECIFIED IN THE LETTER OF APPROVAL
 DATED JUN 3 2009 FILE # 09-0098
 NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
 APPROVED PLANS MUST BE AT CONSTRUCTION SITE

OMNIPPOINT COMMUNICATIONS, INC.
 A WHOLLY-OWNED SUBSIDIARY OF
 T-MOBILE USA, INC.

15 COMMERCE WAY, SUITE B
 NORTON, MA 02766
 OFFICE: (508)-286-2700
 FAX: (508)-286-2893

ADVANCED ENGINEERING GROUP, P.C.
 Civil Engineering - Site Development Surveying - Telecommunications

88 COUNTY STREET, SUITE 101
 ATTLEBORO, MA 02303
 PH: 508-345-5330
 FAX: 508-342-5303

31 THORNTON DRIVE
 NORTH ANDOVER, RI 02852
 PH: 401-867-0511
 FAX: 401-867-0544

SCOTT N. ADAMS
 No. 8120
 REGISTERED PROFESSIONAL ENGINEER
 CIVIL
Scott Adams

APPROVALS

LANDLORD _____
 LEASING _____
 R.F. _____
 ZONING _____
 CONSTRUCTION _____
 A/E _____

PROJECT NO: 4PR-0244-A

DRAWN BY: DD

CHECKED BY: SNA

SUBMITTALS

4	3/9/09	CONSTRUCTION REVISED
3	3/26/08	CONSTRUCTION REVISED
2	12/06/07	CONSTRUCTION REVISED
1	11/30/07	CONSTRUCTION FINAL
0	11/02/07	CONSTRUCTION

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4PR-0244-A
BAFFONI'S PAVING RAWLAND
 316 GREENVILLE AVENUE
 JOHNSTON, RHODE ISLAND 02919

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
T-1
 SHEET 1 of 7

GENERAL NOTES:

1. FIELD SURVEY DATE: 10/27/07
2. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83)
4. CENTER OF PROPOSED TOWER: LATITUDE: 41°50'20.133"
LONGITUDE: -71°29'18.974"
GROUND ELEVATION: 176.0'
5. PROPERTY OWNER: JOHN AND DARLENE BAFFONI
316 GREENVILLE AVENUE
JOHNSTON, RI 02919
6. SITE NUMBER: 4PR-0244-A
7. SITE ADDRESS: 316 GREENVILLE AVENUE
JOHNSTON, RI 02919
8. APPLICANT: OMNIPONT COMMUNICATIONS, INC.
15 COMMERCE WAY, SUITE B
NORTON, MA 02766
9. JURISDICTION: TOWN OF JOHNSTON
10. TAX ID: MAP 47 LOT 51
11. DEED REFERENCE: DEED BOOK: 326 PAGE: 261
12. PLAN REFERENCES: TOWN OF JOHNSTON ASSESSORS MAPS &
PLAN REFERENCES AS INDICATED BELOW
13. ZONING JURISDICTION: RESIDENTIAL

OMNIPONT COMMUNICATIONS, INC.
A WHOLLY-OWNED SUBSIDIARY OF
T-MOBILE USA, INC.

15 COMMERCE WAY, SUITE B
NORTON, MA 02766
OFFICE: (508)-286-2700
FAX: (508)-286-2893

ADVANCED
ENGINEERING GROUP, P.C.
Civil Engineering - Site Development Surveying - Telecommunications

58 COUNTY STREET, SUITE 101
PROVIDENCE, RI 02908
PHONE: 401-867-5379
FAX: 401-867-5374

GENERAL SURVEY NOTES

- 1) SITE DETAIL SHOWN ON THIS SURVEY IS BASED ON FIELD DATA COLLECTED ON 10/27/07. INFORMATION DEPICTED IS IN ACCORDANCE WITH "CLASS III - DATA ACCUMULATION SURVEY" STANDARDS AND MEETS THE FOLLOWING ACCURACY CLASSIFICATIONS:
BOUNDARY CLASSIFICATION - CLASS IV
HORIZONTAL CLASSIFICATION - CLASS III
VERTICAL CLASSIFICATION - CLASS II
- 2) BEARING SYSTEM OF THIS PLAN IS BASED ON TRUE NORTH. TRUE NORTH WAS ESTABLISHED FROM GPS READINGS ON 10/27/07.
- 3) BOUNDARY INFORMATION IS COMPILED FROM ASSESSORS PLANS AND 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.
- 4) THE PURPOSE OF THIS SURVEY IS TO SUPPORT THE DESIGN AND CONSTRUCTION OF A TELECOMMUNICATION FACILITY. USE OF THIS SURVEY FOR ANY PURPOSE NOT RELATED TO THE DESIGN OF THE INTENDED FACILITY IS STRICTLY PROHIBITED.
- 5) PROPERTY LINES AND BOUNDARY DIMENSIONS SHOWN ON THIS SURVEY ARE BASED ON A COMPILATION OF ASSESSORS PLANS, RECORDED PLANS AND DEEDS AND IS 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 ADVANCED ENGINEERING GROUP, P.C.
- 6) THE PROPERTY LINES SHOWN ON THIS PLAN ARE THE LINES DIVIDING EXISTING OWNERSHIP'S, 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.
- 7) IN THE EVENT THAT BENCHMARKS (TBM'S), 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.
- 8) WETLANDS WERE OBSERVED WITHIN 100' OF THE LIMIT OF WORK. (SEE SHEET EC-1 FOR LOCATION OF WETLANDS). WETLAND LINE DELINEATED BY EBT ENVIRONMENTAL CONSULTANTS, INC ON 10/27/07.
- 9) NO PART OF THE LEASE AREA LIES WITHIN 100 YEAR FLOOD ZONE AS SHOWN ON FLOOD INSURANCE RATE MAP - TOWN OF JOHNSTON, RI - PROVIDENCE COUNTY - COMMUNITY PANEL NUMBER: 440018 0010 C MAP 10 OF 20 EFFECTIVE DATE: NOVEMBER 17, 1993.
- 10) 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. OBTAIN 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

APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 4PR-0244-A

DRAWN BY: DD

CHECKED BY: SNA

SUBMITTALS

4	4/2/09	CONSTRUCTION REVISED
5	3/26/09	CONSTRUCTION REVISED
4	3/9/09	CONSTRUCTION REVISED
3	3/26/08	CONSTRUCTION REVISED
2	12/06/07	CONSTRUCTION REVISED
1	11/30/07	CONSTRUCTION FINAL
0	11/02/07	CONSTRUCTION

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4PR-0244-A

BAFFONI'S PAVING RAWLAND
316 GREENVILLE AVENUE
JOHNSTON, RHODE ISLAND 02919

SHEET TITLE

EXISTING CONDITIONS PLAN

SHEET NUMBER

C-1

SHEET 2 of 7

SURVEYOR CLASSIFICATION

THIS SURVEY AND PLAN CONFORM TO A CLASS III STANDARD AS ADOPTED BY THE RHODE ISLAND BOARD OF REGISTRATION FOR PROFESSIONAL LAND SURVEYORS.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 3 2009 FILE # 09-0098
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

SURVEYOR SIGNATURE _____ DATE: _____

FAA 2-C CERTIFICATION

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

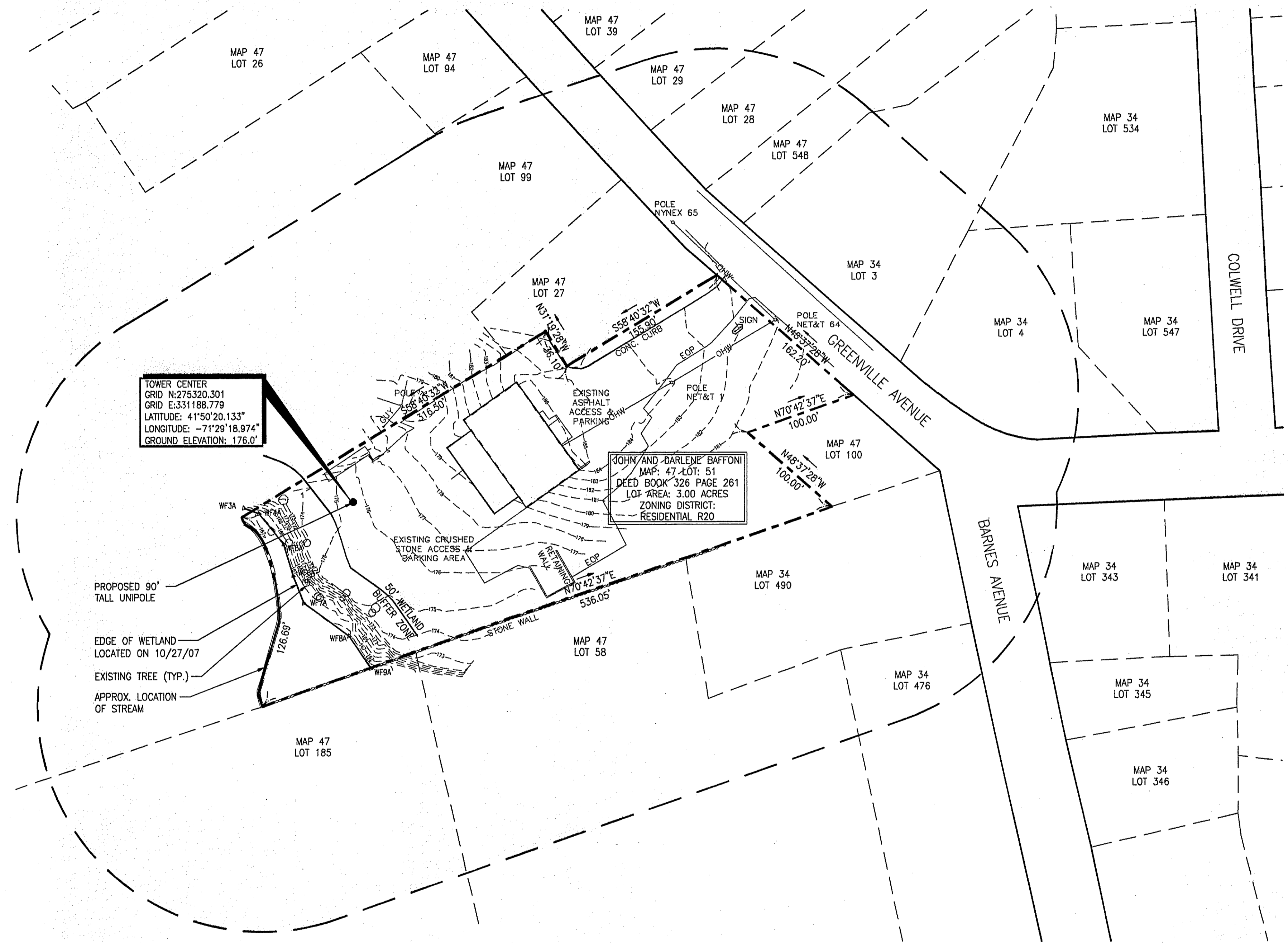
± TWENTY (20) FEET VERTICALLY
± FIFTY (50) FEET HORIZONTALLY

MARC R. CHRETIEN PE 6692
DATE: 3/26/09

LEGEND

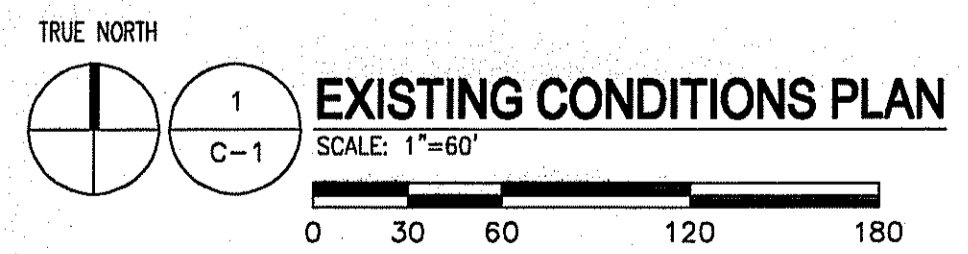
- _____ PROPERTY LINE
- _____ ABUTTING PROPERTY LINE
- _____ 360 _____ EXIST. CONTOUR
- _____ X _____ X _____ EXIST. CHAIN LINK FENCE
- _____ X _____ X _____ PROP. CHAIN LINK FENCE
- _____ EXIST. TREE LINE
- _____ EXIST. STREET LAYOUT
- _____ EXIST. EASEMENT
- _____ OHW _____ OHW _____ EXIST. OVERHEAD UTILITIES
- _____ OHW _____ OHW _____ PROP. OVERHEAD UTILITIES
- _____ UG/E/T _____ EXIST. UNDERGROUND UTILITIES
- _____ UG/E/T _____ PROP. UNDERGROUND UTILITIES
- _____ ZONING BOUNDARY LINE
- _____ ZONING DISTRICT

RESIDENTIAL R20



TOWER CENTER
GRID N:275320.301
GRID E:331188.779
LATITUDE: 41°50'20.133"
LONGITUDE: -71°29'18.974"
GROUND ELEVATION: 176.0'

JOHN AND DARLENE BAFFONI
MAP: 47 LOT: 51
DEED BOOK 326 PAGE 261
LOT AREA: 3.00 ACRES
ZONING DISTRICT:
RESIDENTIAL R20



- NOTES:**
1. PLOT PLAN BASED ON TAX MAPS FROM THE TOWN OF JOHNSTON.
 2. SETBACKS ARE TAKEN FROM PROPOSED CENTER OF TOWER TO PROPERTY LINES.
 3. SITE PLAN INFORMATION WAS OBTAINED FROM A PLAN ENTITLED "COMPREHENSIVE SITE PLAN" DATED 07/21/05. PREPARED BY CLOUGH HARBOUR & ASSOCIATES.
 4. A METES AND BOUNDS SURVEY WAS NOT CONDUCTED BY ADVANCED ENGINEERING GROUP, PC.

IF ASSUMED (E) CONDITION DIFFERS THAN SHOWN, ENGINEER MUST BE INFORMED OF ACTUAL FIELD CONDITION

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTOR'S WORK.

ZONING SUMMARY TABLE

ZONING DISTRICT: RESIDENTIAL R20		
ASSESSORS MAP: 47 LOT: 51		
PROPOSED USE: WIRELESS COMMUNICATION FACILITY		
DIMENSION:	REQUIRED MINIMUM	PROVIDED
LOT AREA	N/A	3.00 AC
LOT FRONTAGE	N/A	162 FT
FRONT YARD SETBACK*	N/A	365 FT
SIDE YARD SETBACK*	N/A	40 FT
REAR YARD SETBACK*	N/A	87 FT
MAXIMUM BUILDING HEIGHT	N/A	N/A
MAXIMUM LOT COVERAGE	N/A	N/A

* DIMENSIONS MEASURED FROM CENTER OF TOWER TO NEAREST LOT LINE.

GENERAL NOTES:

- 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.
- THE PROJECT OWNER'S PCS 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.
- THE PROJECT OWNER'S BASE TRANSMISSION STATION (BTS) CABINET IS A WEATHER RESISTANT, VANDAL RESISTANT STEEL CABINET CONTAINING RECTIFIERS, AMPLIFIERS, RADIOS, AND OTHER INTEGRATED ELECTRONIC CONTROL EQUIPMENT. THE BTS IS ENVIRONMENTALLY CONTROLLED BY A SELF-CONTAINED AC-POWERED HEATING AND COOLING SYSTEM USING CFC-FREE THERMAL TRANSFER COMPOUNDS. MANUFACTURER'S SPECIFICATIONS INDICATE THAT AT FULL LOAD CONDITIONS, MAXIMUM ACOUSTICAL NOISE LEVELS ARE 50DB(A) AT A DISTANCE OF 13 FEET AND 40 DB(A) AT A DISTANCE OF 46 FEET. BATTERY BACKUP FOR EMERGENCY STANDBY POWER IS CONTAINED WITHIN THE SEALED BTS CABINET AND CONSISTS OF FOUR 12-VOLT, CLOSED-CELL DC BATTERIES. THE BATTERIES ARE LEAD-ACID RECHARGEABLE STANDBY INDUSTRIAL POWER CELLS MANUFACTURED TO MEET ENVIRONMENTAL QUALITY AND RUGGEDNESS STANDARDS OF THE INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA). THE BATTERY CHARGING SYSTEM IS COMPUTER-CONTROLLED AND THE EQUIPMENT CABINET IS REMOTELY MONITORED AT PROJECT OWNER'S NETWORK OPERATIONS CONTROL CENTER 24-HOURS A DAY, 7 DAYS A WEEK FOR FAULTS AND ALARMS.
- THE DESIGN OF THE ANTENNA MOUNTING HARDWARE WILL MEET THE ANSI/EIA/TIA-222-F STANDARDS FOR STRUCTURAL STEEL ANTENNA SUPPORTING STRUCTURES AND STATE BUILDING CODE REQUIREMENTS. DETAILED CONSTRUCTION DRAWINGS AND STRUCTURAL CALCULATIONS FOR THE EXISTING ANTENNA SUPPORT STRUCTURE WILL BE PREPARED BY A REGISTERED PROFESSIONAL ENGINEER AND SUBMITTED WITH A BUILDING PERMIT APPLICATION FOR REVIEW AND APPROVAL BY THE LOCAL BUILDING CODE ENFORCEMENT OFFICIAL.
- 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. THE AVERAGE DAILY TRIP GENERATION RATE (ADT) IS 0.07.
- PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER'S RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.
- PERMANENT STANDBY EMERGENCY POWER WILL NOT BE UTILIZED BY PROJECT OWNER'S. IF NECESSARY, DURING AN EXTENDED POWER OUTAGE, A PORTABLE EMERGENCY GENERATOR WILL BE USED TO PROVIDE TEMPORARY EMERGENCY BACKUP POWER. THERE IS NO ON-SITE BULK STORAGE OF FLAMMABLE OR COMBUSTIBLE FUELS FOR OPERATING AN EMERGENCY GENERATOR FOR THE PROJECT OWNER'S EQUIPMENT.
- MARKING AND LIGHTING OF THE TOWER, IF REQUIRED BY THE FAA, WILL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF AN AIRSPACE SAFETY CONSULTANT AND WILL MEET ALL DESIGN GUIDELINES IN FAA AC 70/7460-1K. IF DAYTIME FAA OBSTRUCTION MARKING IS USED, PAINT ANTENNAS, MOUNTING HARDWARE, AND EXPOSED VERTICAL CABLE RUNS TO MATCH EXISTING TOWER BACKGROUND PATTERN (AVIATION ORANGE OR WHITE).
- THE TOTAL IMPACT AREA OF THE DISTURBED CONSTRUCTION SITE IS BOUNDED BY THE "LIMIT OF WORK" AS SHOWN HEREON. THE MAXIMUM AREA OF DISTURBANCE WITHIN THE LIMIT OF WORK IS APPROXIMATELY 6,900 SQUARE FEET. THE PROJECT IMPACT AREA IS BELOW THE EXEMPTION THRESHOLD OF 43,560 SQUARE FEET IN 40 CFR PARTS 9, 122-124 AND THEREFORE IS NOT SUBJECT TO REGULATION UNDER THE EPA OR STATE-MANAGED NPDES GENERAL CONSTRUCTION PERMIT PROGRAM. THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL SITE DEVELOPMENT WORK IN A MANNER THAT DOES NOT EXCEED THE LIMITS OF WORK SHOWN ON THE PLANS. ADDITIONALLY, THE PROJECT OWNER'S GENERAL CONTRACTOR SHALL CONDUCT ALL CONSTRUCTION ACTIVITIES IN A MANNER THAT DOES NOT RESULT IN STORM WATER DISCHARGES WITH AN ADVERSE IMPACT ON ANY STORM WATER COLLECTION/CONVEYANCE SYSTEM, WETLAND, WATER BODY, OR OTHER WATER RESOURCE AREAS.
- APPLICANT, OMNIPONT COMMUNICATIONS, INC. 15 COMMERCE WAY, SUITE B NORTON, MA 02766
- PROPERTY OWNER: JOHN AND DARLENE BAFFONI 316 GREENVILLE AVENUE JOHNSTON, RI 02919
- STRUCTURE OWNER: OMNIPONT COMMUNICATIONS, INC. 15 COMMERCE WAY, SUITE B NORTON, MA 02766

LEGEND:

- SUBJECT PARCEL
- ABUTTERS
- RIGHT-OF-WAY
- STONEWALL
- x - x - FENCE
- xx xxx MAP LOT
- TREES GREATER THAN 12"
- ▭ EXISTING BUILDING
- ⊕ EXISTING UTILITY POLE #XXX

ABBREVIATIONS

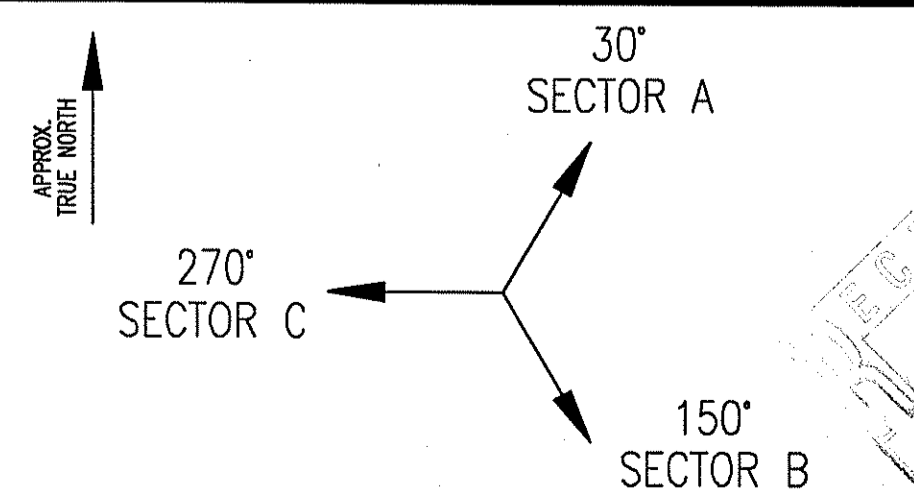
ADJ	ADJUSTABLE	OC	ON CENTER
AGL	ABOVE GRADE LEVEL	OPP	OPPOSITE
APPROX	APPROXIMATE	SF	SQUARE FOOT
C	CONDUIT	SHT	SHEET
CONC	CONCRETE	SIM	SIMILAR
CONT	CONTINUOUS	STL	STEEL
CJ	CONSTRUCTION JOINT	TOC	TOP OF CONCRETE
DIA	DIAMETER	TOM	TOP OF MASONRY
DWG	DRAWING	TYP	TYPICAL
EGB	EQUIPMENT GROUND BAR	VIF	VERIFY IN FIELD
EA	EACH	UG	UNDERGROUND
ELEC	ELECTRICAL	UNON	UNLESS OTHERWISE NOTED
EL	ELEVATION	WWF	WELDED WIRE FABRIC
EQ	EQUAL	W/	WITH
EQUIP	EQUIPMENT	BTS	BASE TRANSMISSION STATION
(E)	EXISTING	LNA	LOW NOISE AMPLIFIER
EXT	EXTERIOR	PCS	PERSONAL COMMUNICATIONS SERVICES
FCM	FIELD CONSTRUCTION MANAGER	A-1	ANTENNA MARK NO.
FF	FINISHED FLOOR	PL	PLATE
FG	FINISHED GRADE	&	AND
GA	GAUGE	@	AT
GALV	GALVANIZED		
GC	GENERAL CONTRACTOR		
LG	LONG		
MAX	MAXIMUM		
MECH	MECHANICAL		
MFR	MANUFACTURER		
MGB	MASTER GROUND BAR		
MIN	MINIMUM		
MTL	METAL		
NIC	NOT IN CONTRACT		
NTS	NOT TO SCALE		

SYMBOLS AND MATERIALS

□	NEW ANTENNA	▨	GROUT OR PLASTER
○	EXISTING ANTENNAS	▧	(E)BRICK
▨	ASPHALT	▩	(E)MASONRY
▨	NEW ACCESS EASEMENT	▩	CONCRETE
▨	CONCRETE	▩	EARTH
▨	ELECTRIC BOX	▩	GRAVEL
☀	LIGHT POLE	▩	PLYWOOD
○	FND. MONUMENT	▩	SAND
⊕	SPOT ELEVATION	▩	WOOD CONT.
△	SET POINT	▩	WOOD BLOCKING
▽	REVISION	▩	STEEL
○	GRID REFERENCE	---	CENTER LINE
○	DETAIL REFERENCE	---	PROPERTY LINE
○	ELEVATION	---	STEPPED FOOTING
○		○	MATCH LINE
○		○	WORK POINT

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
SECTION OF WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 3 2009 FILE # 09-0098
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION

ANTENNA ORIENTATION KEY



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SCOTT N. ADAMS
No. 8120
REGISTERED PROFESSIONAL ENGINEER
CIVIL
Scott N. Adams

APPROVALS
LANDLORD _____
LEASING _____
R.F. _____
ZONING _____
CONSTRUCTION _____
A/E _____

PROJECT NO: 4PR-0244-A

DRAWN BY: DD

CHECKED BY: SNA

SUBMITTALS

NO.	DATE	DESCRIPTION
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3	3/26/08	CONSTRUCTION REVISED
2	12/06/07	CONSTRUCTION REVISED
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0	11/02/07	CONSTRUCTION

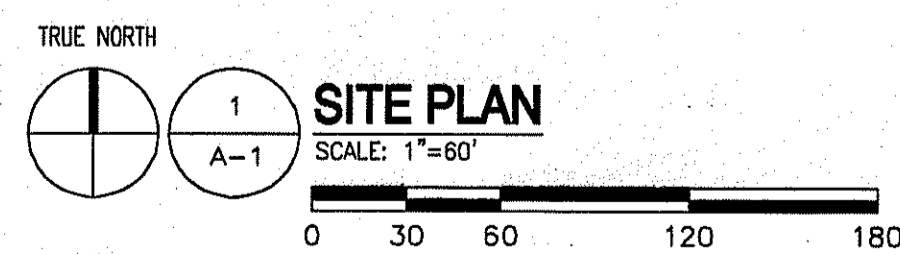
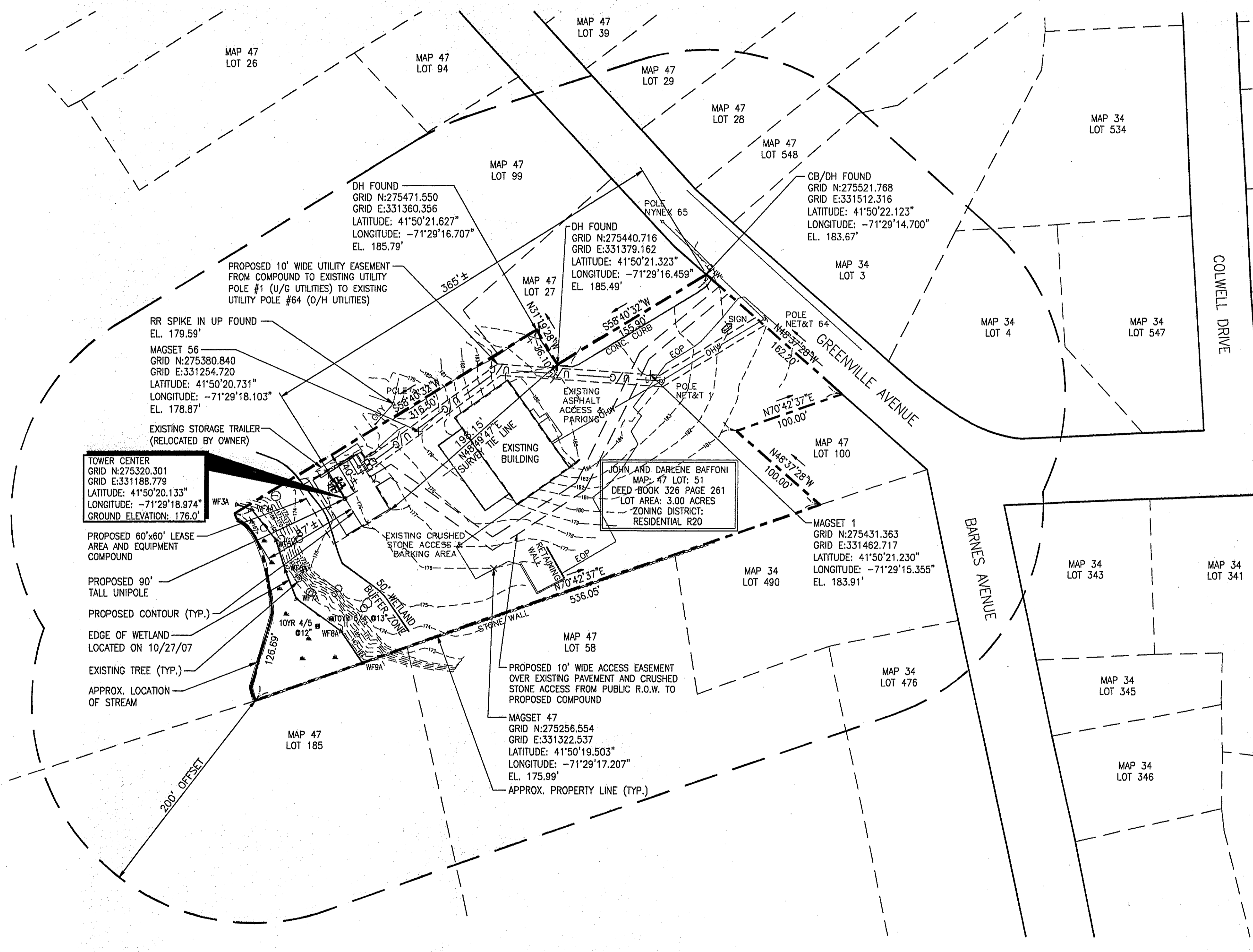
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4PR-0244-A
BAFFONI'S PAVING RAWLAND
316 GREENVILLE AVENUE
JOHNSTON, RHODE ISLAND 02919

SHEET TITLE

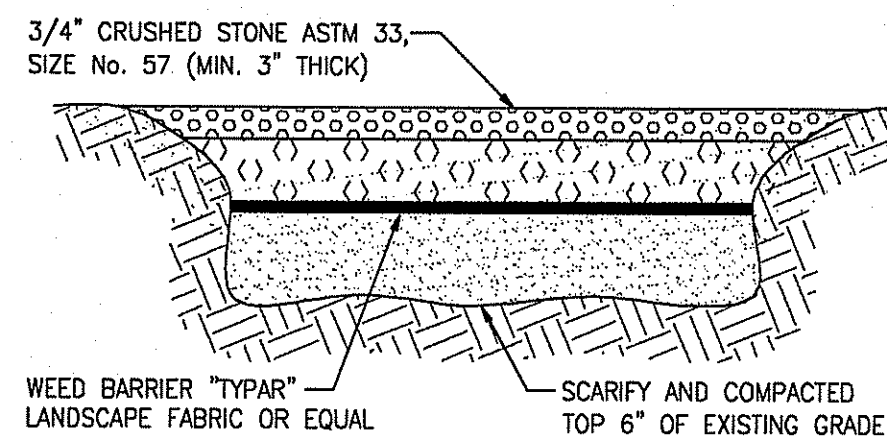
SITE PLAN

SHEET NUMBER
A-1
SHEET 3 of 7

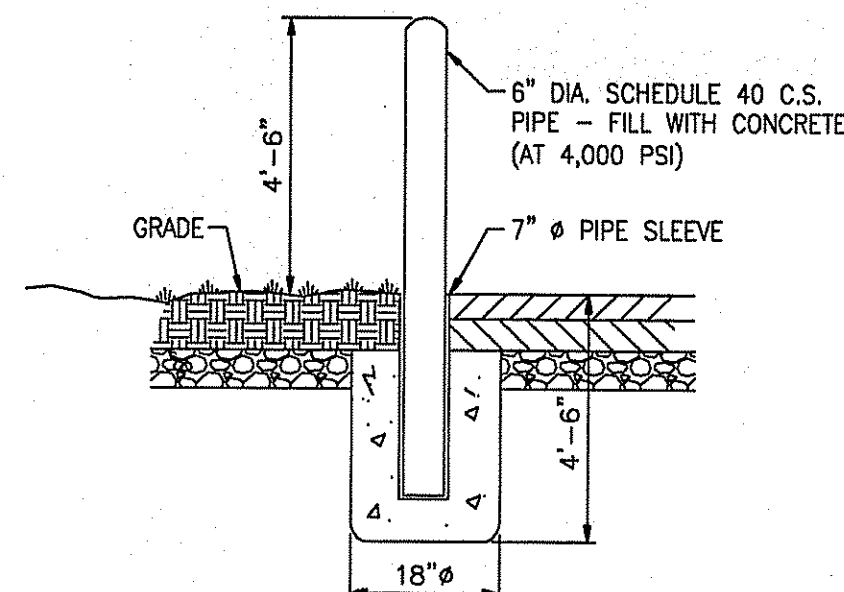


- NOTES:**
- PLOT PLAN BASED ON TAX MAPS FROM THE TOWN OF JOHNSTON.
 - SETBACKS ARE TAKEN FROM PROPOSED CENTER OF TOWER TO PROPERTY LINES.
 - SITE PLAN INFORMATION WAS OBTAINED FROM A PLAN ENTITLED "COMPREHENSIVE SITE PLAN" DATED 07/21/05. PREPARED BY CLOUGH HARBOUR & ASSOCIATES.
 - A METES AND BOUNDS SURVEY WAS NOT CONDUCTED BY ADVANCED ENGINEERING GROUP, PC.

SPECIAL LANDLORD NOTE:
 LESSEE/LICENSEE "FUTURE" PANEL ANTENNAS ARE DEPICTED FOR THE PURPOSES OF DETERMINING TOWER/MONOPOLE STRUCTURAL CAPACITY, OBTAINING ZONING APPROVALS AND BUILDING PERMITS, SUBSEQUENT ENDORSEMENT OR ACCEPTANCE OF THIS DRAWING BY THE TOWER OWNER IS NOT TO BE CONSTRUED AS PERMISSION OR APPROVAL TO INSTALL "FUTURE" ANTENNAS THAT EXCEED "PROPOSED" OR ACTUAL EQUIPMENT LISTED IN THE LESSEE/LICENSEE LEASE AGREEMENT.



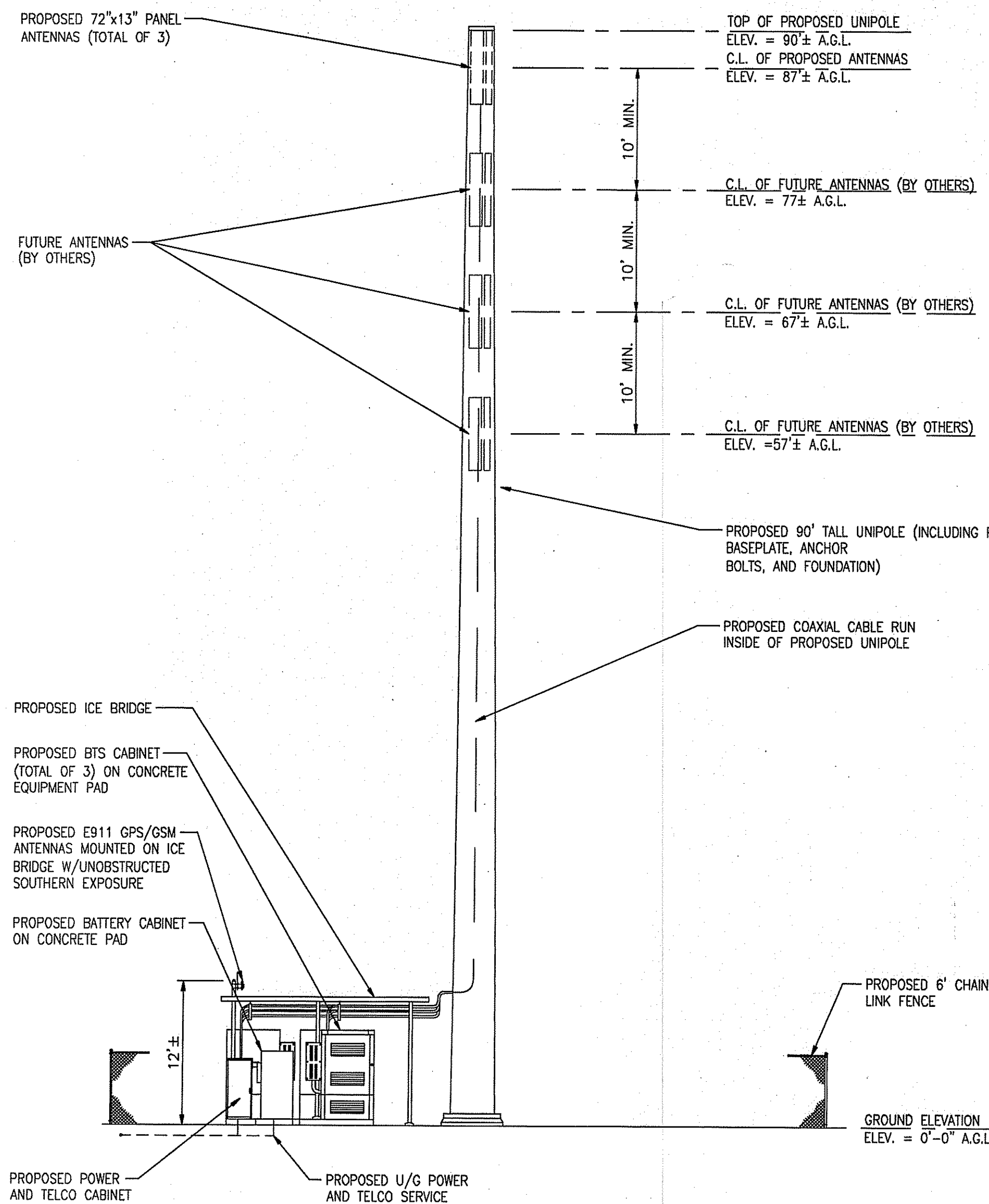
2 GRAVEL COMPOUND DETAIL
 SCALE: NTS



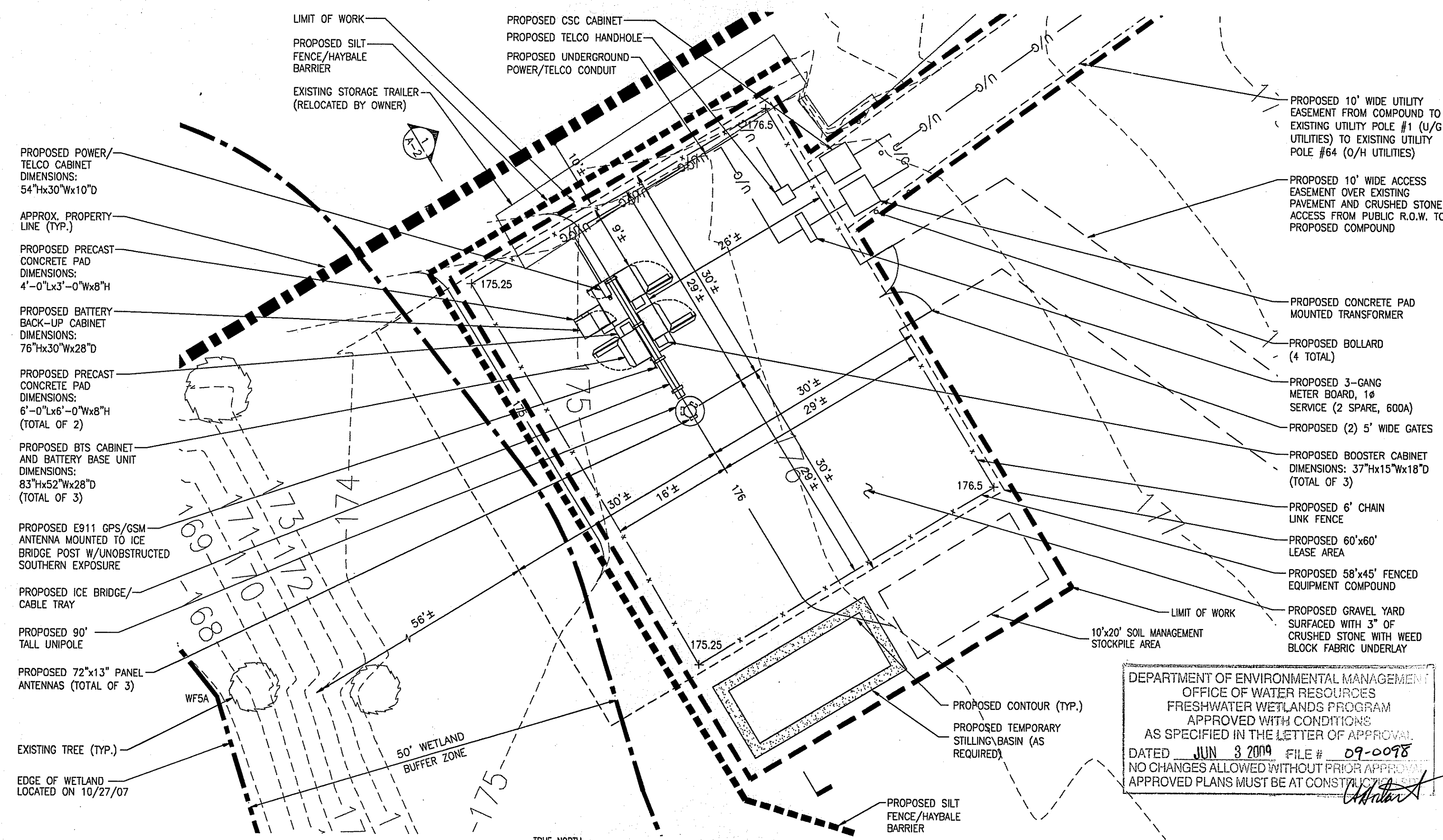
3 BOLLARD DETAIL
 SCALE: NTS

NOTES:

1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY CONSTRUCTION CONTROL SURVEYS AND MAINTAINING ALL LINES AND GRADES REQUIRED TO CONSTRUCT ALL IMPROVEMENTS SHOWN HEREIN.
2. ALL DIMENSIONS SHOWN THUS ± ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS WHICH EFFECT THE CONTRACTORS WORK. CONTRACTOR TO VERIFY ALL DIMENSIONS WITH PROJECT OWNER PRIOR TO CONSTRUCTION.
3. NORTH ARROW SHOWN ON PLANS REFERS TO APPROXIMATE TRUE NORTH. PRIOR TO THE START OF CONSTRUCTION, ORDERING OR FABRICATING OF ANTENNA MOUNTS, CONTRACTOR SHALL CONSULT WITH PROJECT OWNER'S RF ENGINEER AND FIELD VERIFY ALL ANTENNA SECTOR LOCATIONS AND ANTENNA AZIMUTHS.
4. THE CONTRACTOR AND OR HIS SUB CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
5. ANTENNA INSTALLATION SHALL BE CONDUCTED BY FIELD CREWS EXPERIENCED IN THE ASSEMBLY AND ERECTION OF RADIO ANTENNAS, TRANSMISSION LINES AND SUPPORT STRUCTURES.
6. COAXIAL CABLE CONNECTORS AND TRANSMITTER EQUIPMENT SHALL BE PROVIDED BY THE PROJECT OWNER AND IS NOT INCLUDED IN THESE CONSTRUCTION DOCUMENTS. A SCHEDULE OF PROJECT OWNER SUPPLIED MATERIALS IS ATTACHED TO THE BID DOCUMENTS (SEE EXHIBIT 3). ALL OTHER HARDWARE TO BE PROVIDED BY THE CONTRACTOR. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
7. WHEN "PAINT TO MATCH" IS SPECIFIED FOR ANTENNA CONCEALMENT, PAINT PRODUCT FOR ANTENNA RADOME SHALL BE SHERWIN WILLIAMS COROTHANE II. SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND PROJECT OWNER'S GUIDELINES.
8. COORDINATION, LAYOUT, AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
10. ALL (E)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 CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.
11. ALL (E)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 UTILITY COMPANY ENGINEERING.
12. THE AREAS OF THE PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT, DRIVEWAY OR GRAVEL, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDED AND COVERED WITH MULCH UNLESS OTHERWISE NOTED.
13. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION.
14. PER FCC MANDATE, ENHANCED EMERGENCY (E911) SERVICE IS REQUIRED TO MEET NATIONWIDE STANDARDS FOR WIRELESS COMMUNICATIONS SYSTEMS. PROJECT OWNER'S IMPLEMENTATION REQUIRES DEPLOYMENT OF EQUIPMENT AND ANTENNAS GENERALLY DEPICTED ON THIS PLAN, ATTACHED TO OR MOUNTED IN CLOSE PROXIMITY TO THE BTS RADIO CABINETS. PROJECT OWNER RESERVES THE RIGHT TO MAKE REASONABLE MODIFICATIONS TO E911 EQUIPMENT AND LOCATION AS TECHNOLOGY EVOLVES TO MEET REQUIRED SPECIFICATIONS.



1 ELEVATION
 SCALE: 1/8"=1'-0"
 0 4'-0" 8'-0" 16'-0" 24'-0"



5 ENLARGED SITE PLAN
 SCALE: 1"=10'
 0 5 10 20 40

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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SCOTT N. ADAMS
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PROJECT NO: 4PR-0244-A
 DRAWN BY: DD
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SUBMITTALS

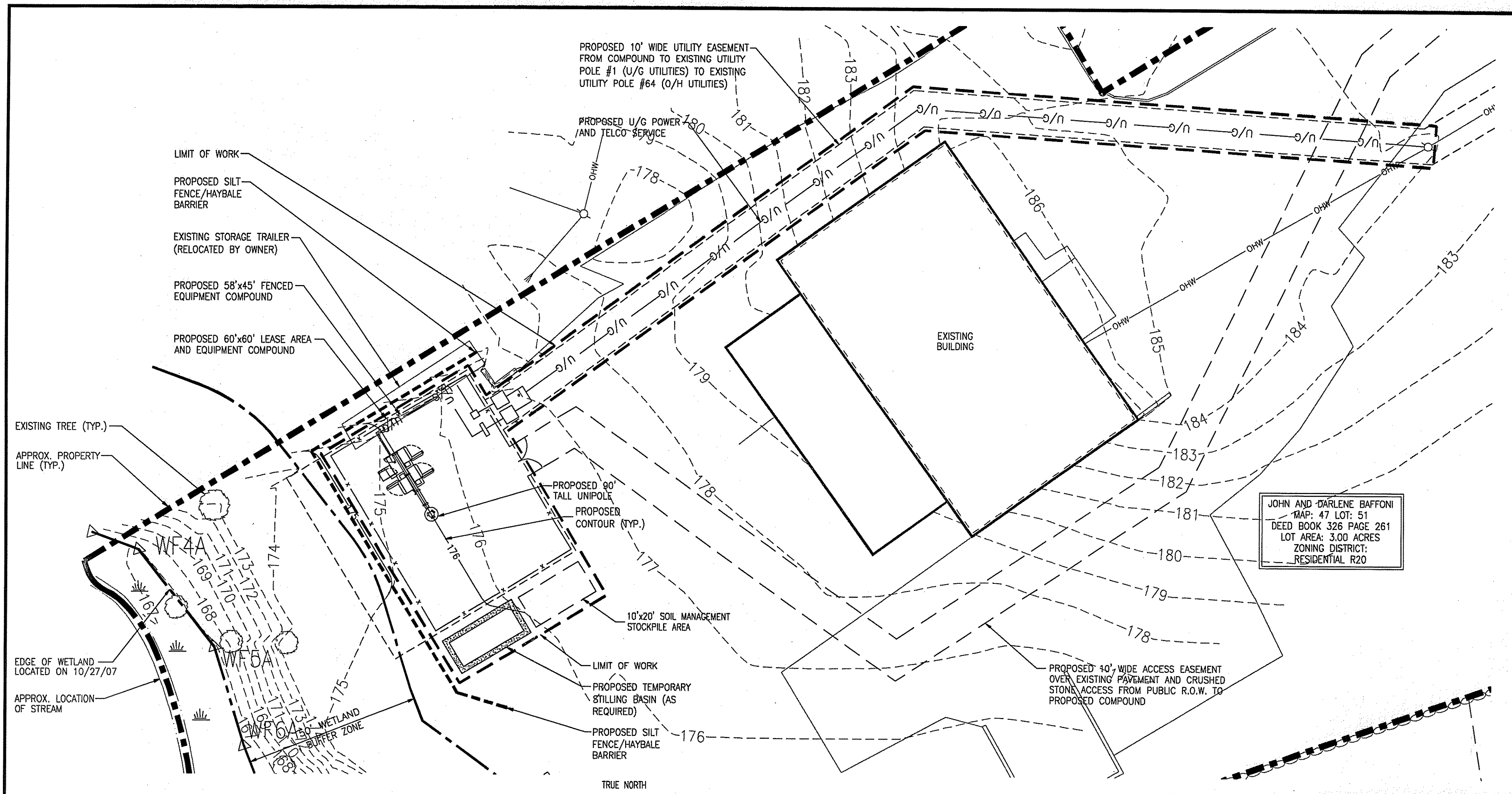
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4PR-0244-A
BAFFON'S PAVING RAWLAND
 316 GREENVILLE AVENUE
 JOHNSTON, RHODE ISLAND 02919

SHEET TITLE
 PLAN, ELEVATION,
 AND DETAILS

SHEET NUMBER
A-2
 SHEET 4 of 7



PROJECT DESCRIPTION AND ENVIRONMENTAL DATA

- OMNIPONT COMMUNICATIONS, INC., PROPOSES TO CONSTRUCT AN ADDITION TO THE EXISTING CELLULAR TELECOMMUNICATIONS FACILITY. IMPROVEMENTS CONSIST OF: AN EXTENSION OF THE EXISTING CHAIN LINK FENCE, CONCRETE EQUIPMENT MOUNTING PAD, RADIO CABINETS, LIGHTNING PROTECTION GROUND RING, ELECTRIC & TELEPHONE CONDUITS FROM EXISTING SERVICE POINTS AND COAXIAL CABLES RUN TO NEW ANTENNAS ON THE EXISTING TOWER.
- THE PHASING AND SEQUENCING OF THE WORK FOR THE SITE PREPARATION FOR THE TELECOMMUNICATIONS EQUIPMENT INSTALLATION CONSISTS OF INSTALLING TEMPORARY EROSION AND SEDIMENTATION CONTROL BARRIERS; LIMITED CLEARING, GRUBBING AND ROUGH GRADING OF THE EQUIPMENT COMPOUND; EXCAVATION OF EQUIPMENT MOUNTING PAD FOUNDATION; FOUNDATION WORK; EXCAVATION FOR UTILITIES, BACK FILL FOUNDATION AND UTILITY TRENCHES; INSTALL EQUIPMENT ON TOWER AND IN COMPOUND; FENCING; GROUNDING AND LIGHTNING PROTECTION; FINAL GRADING AND STABILIZATION OF EQUIPMENT COMPOUND; LOAM AND SEED DISTURBED AREAS OUTSIDE COMPOUND; FINAL CLEANUP AND EQUIPMENT TESTING. THE ESTIMATED TIME FOR COMPLETION OF THE WORK IS APPROXIMATELY FOUR (4) WEEKS.
- THE COMPOUND ENCLOSURE IS SURFACED WITH CRUSHED STONE UNDERLAIN BY A WEED-BLOCK SYNTHETIC FILTER FABRIC. DRAINAGE PATTERNS, RUNOFF VOLUMES AND PEAK FLOW RATES WILL NOT BE ALTERED BY THE PROPOSED CONSTRUCTION. MATERIAL REMOVED FOR THE COMPOUND GRADINGS WILL BE TEMPORARILY STOCKPILED ON SITE IN THE DESIGNATED AREA. MATERIAL WILL BE RE-USED OFF SITE AS DETERMINED BY THE CONTRACTOR.
- IF REQUIRED, TEMPORARY DEWATERING OF THE TRENCH EXCAVATIONS WILL BE DIVERTED INTO A TEMPORARY STILLING BASIN. INFILTRATION IN THE STILLING BASIN AND FLOW THROUGH THE CRUSHED STONE CONTAINMENT BERM WILL RESULT IN DIFFUSE, NON-POINT SOURCE RUNOFF OVER VEGETATED AREAS.
- FLAT SLOPES MAINTAINED WITHIN THE EQUIPMENT COMPOUND AND THE CRUSHED STONE SURFACE WILL PROMOTE INFILTRATION. RUNOFF FROM THE COMPOUND WILL BE DIFFUSE, NON-POINT SOURCE SHEET FLOW. NO NEW STORM WATER CONVEYANCES ARE CREATED BY THE INTENDED SITE ALTERATIONS AND THEREFORE THE PROJECT IS EXEMPT FROM THE DEP STORM WATER MANAGEMENT POLICY ADOPTED NOVEMBER 18, 1996.

SOIL MANAGEMENT CRITERIA

MANAGEMENT OF EXCAVATED SOIL

ALL SHALLOW SUBSURFACE SOIL, TO A DEPTH OF APPROXIMATELY 7 FEET BGS IN THE VICINITY OF THE PROPOSED TELECOMMUNICATIONS COMPOUND SHOULD BE HANDLED AND MANAGED AS POTENTIALLY CONTAMINATED AS DESCRIBED IN THE SOILS MANAGEMENT REPORT BY DATED MARCH 6, 2009. THE PRIMARY CONCERNS REGARDING SOIL CONTAMINATION AT THE SUBJECT PROPERTY, IN THE VICINITY OF THE TELECOMMUNICATIONS COMPOUND PORTION OF THE PROPOSED PROJECT SITE ARE:

- HUMAN EXPOSURE, VIA SKIN CONTACT, INHALATION, AND INCIDENTAL INGESTION;
- ON-SITE MANAGEMENT OF DISTURBED SOILS; AND,
- OFF-SITE DISPOSAL OF POTENTIALLY CONTAMINATED SOIL.

THE FOLLOWING PROTOCOLS ARE RECOMMENDED FOR TRENCHING AND EXCAVATION ACTIVITIES RELATED TO SUBSURFACE UTILITIES, AND GENERAL CONSTRUCTION ACTIVITIES INVOLVING EXCAVATION AT THE SUBJECT PROPERTY IN THE VICINITY OF THE TELECOMMUNICATIONS COMPOUND. THE APPROPRIATE LEVEL OF WORKER PROTECTION SHOULD BE UTILIZED DEPENDANT UPON THE MANNER IN WHICH THE CONTAMINATED SOIL IS HANDLED (I.E. SPADE/SHOVEL-TYPE DIGGING VS. LARGE-SCALE EXCAVATION).

WORKER SAFETY CONSIDERATIONS

DURING EXCAVATION AND ASSOCIATED HANDLING OF SOIL IN THE VICINITY OF THE TELECOMMUNICATIONS COMPOUND, THE FOLLOWING IS RECOMMENDED:

- WORKERS POTENTIALLY COMING IN CONTACT WITH CONTAMINATED SOILS SHOULD WEAR PROTECTIVE GLOVES, LONGSLEEVED SHIRTS, AND LONG PANTS.
- WORKERS SHOULD NOT EAT, DRINK, OR SMOKE WHILE PERFORMING ACTIVITIES DURING WHICH THEY MAY COME IN CONTACT WITH CONTAMINATED SOIL. AFTER WORKERS HAVE POTENTIALLY COME IN CONTACT WITH CONTAMINATED SOIL, THEY SHOULD WASH THEIR HANDS PRIOR TO EATING, DRINKING OR SMOOKING.
- IF VISIBLE FUGITIVE DUST IS PRESENT DURING EXCAVATION ACTIVITIES, AIR MONITORING FOR THE HEALTH AND SAFETY OF SITE WORKERS SHOULD BE PERFORMED USING AN MIE PDM-3 MINI-RAM (AEROSOL MONITOR) OR EQUIVALENT. THE MONITORING OF DUST LEVELS DURING THE SOIL EXCAVATION ACTIVITIES WILL ENSURE THAT NO AIRBORNE CONTAMINATION WILL IMPACT ADJUTING PROPERTIES, AND MINIMIZE ON-SITE WORKER EXPOSURE (SEE EBI REPORT FOR DETAILED INFORMATION REGARDING MONITORING CRITERIA).
- IF SOIL IS DRY, EFFORTS SHOULD BE PERFORMED BY EQUIPMENT OPERATORS TO MINIMIZE THE GENERATION OF FUGITIVE DUST. IF DUST IS LIKELY TO BE GENERATED DURING MORE SIGNIFICANT EXCAVATION ACTIVITIES, A VERY LIGHT MIST OF WATER SHOULD BE SPRAYED UPON DRY SOILS DURING EXCAVATION TO REDUCE THE AMOUNT OF SOIL-DERIVED DUST DURING EXCAVATION. THE MIST SHOULD BE SUFFICIENT TO MINIMIZE DUST, BUT NOT RESULT IN SATURATION AND RUNOFF OF POTENTIALLY CONTAMINATED SOILS. THIS ACTIVITY CAN BE EMPLOYED IN LIEU OF ABOVE-REFERENCED AIR MONITORING.

ON-SITE SOIL MANAGEMENT

- DURING EXCAVATION ACTIVITIES, POTENTIALLY IMPACTED SOIL SHOULD BE TEMPORARILY STAGED ON TOP OF AND COVERED BY POLYETHYLENE SHEETING HAVING A MINIMUM 6-MIL THICKNESS. THIS WILL MINIMIZE CONTACT BETWEEN POTENTIALLY CONTAMINATED SOIL AND UNCONTAMINATED AREAS, AND WILL REDUCE THE POTENTIAL FOR SUBSEQUENT HUMAN CONTACT OR FUGITIVE DUST GENERATION.
- ALTERNATIVELY, IF EXCAVATED SOIL IS TO BE DISPOSED OF OFF-SITE, THEN LOADING THE SOIL INTO ROLL-OFF CONTAINERS MAY BE PREFERABLE. IF ROLL-OFF CONTAINERS ARE USED, THEN THEY SHOULD BE COVERED AND SECURED DAILY TO PREVENT FUGITIVE EMISSIONS.
- MOST AREAS OF THE TELECOMMUNICATIONS COMPOUND PORTION OF THE PROPOSED PROJECT SITE INSTALLATION ARE PRESENTLY COVERED WITH COMPACTED CRUSHED GRAVEL. THIS ACTS TO PREVENT CONTACT WITH CONTAMINATED SOIL, RUNOFF OF CONTAMINATED SOIL, AND GENERATION OF POTENTIALLY CONTAMINATED FUGITIVE DUST. IF EXCAVATION EXPOSES CONTAMINATED SOILS, THE CONTAMINATED SOILS MUST BE RESTRICTED TO PREVENT ACCIDENTAL HUMAN EXPOSURE TO THE SOIL, AT THE END OF EACH WORKDAY.
- FOLLOWING EXCAVATION WHICH RESULTS IN DISTURBANCE OF COMPRESSED GRAVEL-COVERED SOIL, EBI RECOMMENDS RESTORATION OF THE GROUND SURFACE TO THE ORIGINAL CONDITIONS IMMEDIATELY FOLLOWING EXCAVATION ACTIVITIES, OR IMMEDIATE PLACEMENT OF THE PROPOSED FINAL SURFACE COVER (I.E. GRAVEL BALLAST). AREAS OF COMPRESSED OR COMPACTED SOIL/GRAVEL SHOULD BE CAPPED AND COMPRESSED WITH CLEAN MATERIAL AS SOON AS FEASIBLE FOLLOWING EXCAVATION.
- POTENTIALLY IMPACTED EXCAVATED SOIL WHICH IS TO BE REMOVED FROM THE SUBJECT PROPERTY SHOULD, AT A MINIMUM, BE STAGED ON, AND COVERED WITH POLYETHYLENE SHEETING, DEPENDING UPON THE VOLUME OF SOIL. IN THE EVENT THAT THE SOIL WILL REMAIN AT THE SITE FOR AN EXTENDED PERIOD PRIOR TO CLASSIFICATION AND DISPOSAL, EXCAVATED SOIL THAT WILL REMAIN AT THE SUBJECT PROPERTY FOR LESS THAN 30 DAYS PRIOR TO OFF-SITE TRANSPORTATION AND DISPOSAL MAY REMAIN IN A STOCKPILE. NO SOIL SHOULD BE REMOVED FROM THE SUBJECT PROPERTY WITHOUT PROPER CHARACTERIZATION AND SHIPPING DOCUMENTATION.
- A BERM, HAY BALES, AND/OR SILT FENCES SHOULD BE PLACED AROUND ANY STOCKPILED SOIL TO PREVENT RUNOFF FROM LEAVING THE AREA. DO NOT STOCKPILE SOIL NEAR STORM DRAINS OR WATERCOURSES. CLEANUP MATERIALS SHOULD BE STAGED NEAR THE SOIL STOCKPILE AREA.

OFF-SITE SOIL DISPOSAL

- ALL SOIL TO A DEPTH OF APPROXIMATELY SEVEN (7) FEET BGS IN THE VICINITY OF THE TELECOMMUNICATIONS COMPOUND PORTION OF THE PROPOSED PROJECT SITE SHOULD BE ASSUMED TO BE CONTAMINATED WITH MINOR LEVELS OF PAHS, UNLESS SAMPLING AND ANALYSES CAN DEMONSTRATE OTHERWISE. SOIL FROM THIS AREA SHOULD BE REUSED AS FILL MATERIAL AT RESIDENTIAL LOCATIONS, OR WHERE THERE COULD BE INTENSIVE AND FREQUENT CONTACT WITH THE SOIL BY CHILDREN, SUCH AS AT PLAYGROUNDS, SCHOOLS, AND DAY CARE CENTERS, IN ACCORDANCE WITH PROFESSIONAL STANDARDS OF CARE. NO SOIL SHALL BE RE-USED AT ANY LOCATION OF LESS CONTAMINATION.
- WHILE THE SOIL IN THE AREA OF THE PROPOSED INSTALLATION IS SUITABLE FOR REUSE IN THE AREA OF EXCAVATION, IF OCI CHOOSES TO REMOVE THE POTENTIALLY CONTAMINATED SOIL FROM THE SUBJECT PROPERTY, THE SOIL SHOULD BE QUANTIFIED BY ACCREDITED INDEPENDENT LABORATORY ANALYSES. THE SOIL SHOULD BE FURTHER CHARACTERIZED TO DEMONSTRATE THAT THE SOIL QUALITY MEETS THE ACCEPTANCE CRITERIA OF THE FACILITY AT WHICH THE SOIL WILL BE DISPOSED. IF CHARACTERIZATION INDICATES CLASSIFICATION AS A RCRA HAZARDOUS WASTE, A LICENSED HAZARDOUS WASTE HAULER MUST BE USED FOR TRANSPORTATION TO AN APPROVED FACILITY. ALL SOIL WHICH IS TO BE REMOVED FROM TELECOMMUNICATIONS COMPOUND PORTION OF THE PROPOSED PROJECT SITE SHOULD BE TRANSPORTED BY A LICENSED WASTE TRANSPORTER, AND DISPOSED OF AT AN APPROPRIATELY REGULATED FACILITY USING APPROPRIATE BILL-OF-LADING OR HAZARDOUS WASTE MANIFEST DOCUMENTATION, AS MAY BE APPROPRIATE. A REPRESENTATIVE OF THE SUBJECT PROPERTY, OR THEIR AGENT, MUST SIGN THE DOCUMENTATION, AS THE "GENERATOR" OF THE MATERIAL. THE DOCUMENTS MUST ALSO BE SIGNED BY THE RECEIVING FACILITY, AND RETURNED WITHIN FIVE (5) DAYS OF SHIPMENT, ALONG WITH WEIGHT SLIPS, TO THE OWNER OF THE SITE. THE OWNER SHOULD MAINTAIN COPIES OF THE SHIPPING DOCUMENTATION.
- DURING REMOVAL OF CONTAMINATED SOILS FROM THE SUBJECT PROPERTY, TRUCKS SHOULD TAKE CARE NOT TO TRACK SOIL ONTO STREETS. SOIL ADHERING TO THE SIDES, UNDERCARRIAGE, AND WHEELS OF THE TRUCKS SHOULD BE REMOVED PRIOR TO THE DEPARTURE OF SAID VEHICLES FROM THE SITE. ALL LOADS OF SOIL WITHIN TRUCKS SHOULD BE PROPERLY COVERED BEFORE THE TRUCKS LEAVE THE SITE.
- TO DEMONSTRATE SOIL QUALITY FOR THE PURPOSE OF DISPOSAL CHARACTERIZATION OR FOR WORKER HEALTH AND SAFETY PLANNING (IN INSTANCES WHERE CONTAMINATION IS IDENTIFIED BY SIGHT OR SMELL AND WHERE THE SOIL WILL REMAIN ON THE SUBJECT PROPERTY), REPRESENTATIVE COMPOSITE AND DISCRETE SAMPLES OF STAGED OR IN-SITU SOIL SHOULD BE COLLECTED. THE NUMBER OF SOIL SAMPLES COLLECTED AND ANALYTICAL SUITE SHOULD FULFILL THE PROPOSED SOIL RECEIVING FACILITY'S FREQUENCY OF SAMPLING REQUIREMENTS. IF FOR HEALTH AND SAFETY PURPOSES, AND/OR IF THE SOIL IS TO REMAIN ON THE PROPERTY, THE SAMPLING FREQUENCY AND SAMPLE LOCATIONS SHOULD ACCURATELY CHARACTERIZE THE NATURE OF THE SOIL TO BE ENCOUNTERED. THE REPRESENTATIVE SOIL SAMPLES SHOULD BE ANALYZED FOR A MINIMUM OF POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS), VOLATILE ORGANIC COMPOUNDS (VOCs) AND METALS, IN ACCORDANCE WITH USEPA SW-846 ANALYTICAL METHODS, FOR INITIAL CHARACTERIZATION, AND FOR APPLICABLE PARAMETERS AS MAY BE REQUIRED BY THE RECEIVING FACILITY. UNDER NO CIRCUMSTANCES SHOULD SAMPLES FOR VOLATILE ORGANIC COMPOUNDS (VOCs) ANALYSIS BE COMPOSITED. SAMPLES FOR VOC ANALYSIS SHOULD BE DISCRETE SAMPLES COLLECTED DIRECTLY INTO LABORATORY-SUPPLIED CONTAINERS.
- THE RECOMMENDED SUITE OF ANALYTICAL PARAMETERS FOR CHARACTERIZATION IS BASED ON THE HISTORIC USE OF THE SUBJECT PROPERTY, AND SHOULD BE MODIFIED FOR APPLICABLE PARAMETERS AS MAY BE REQUIRED BY THE RECEIVING FACILITY. CHARACTERIZATION SAMPLING SHOULD BE PERFORMED BY A QUALIFIED ENVIRONMENTAL ENGINEERING/ CONSULTING FIRM USING LABORATORY-SUPPLIED SAMPLE CONTAINERS. THE SAMPLES SHOULD BE ANALYZED BY A STATE-CERTIFIED LABORATORY USING THE APPROPRIATE METHODOLOGY.
- THE METHOD FOR SOIL DISPOSAL SHOULD BE SELECTED BASED UPON ANALYTICAL RESULTS, AND MAY, DEPENDING ON THE ANALYTICAL RESULTS, BE EITHER AN APPROVED REGULATED LANDFILL (IF NON-HAZARDOUS), OR A REGULATED LANDFILL FACILITY APPROVED FOR DISPOSAL OF HAZARDOUS WASTE (IF HAZARDOUS).

FOR A COMPLETE DESCRIPTION OF THE SOIL MANAGEMENT PLAN, PLEASE REFER TO EBI REPORT ENTITLED "SOIL MANAGEMENT PLAN, 4PR0244A, BAFFONI PAVING, 316 GREENVILLE AVENUE, JOHNSTON, RHODE ISLAND 02919", DATED MARCH 6, 2009.

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SCOTT N. ADAMS

No. 8120

REGISTERED PROFESSIONAL ENGINEER
CIVIL

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APPROVALS

LANDLORD _____

LEASING _____

R.F. _____

ZONING _____

CONSTRUCTION _____

A/E _____

PROJECT NO: 4PR-0244-A

DRAWN BY: DD

CHECKED BY: SNA

SUBMITTALS

4	3/9/09	CONSTRUCTION REVISED
3	3/26/08	CONSTRUCTION REVISED
2	12/06/07	CONSTRUCTION REVISED
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4PR-0244-A

BAFFONI'S PAVING RAWLAND

316 GREENVILLE AVENUE
JOHNSTON, RHODE ISLAND 02919

SHEET TITLE

EROSION CONTROL PLAN, SOIL MANAGEMENT CRITERIA, AND DETAILS

SHEET NUMBER

EC-1

SHEET 5 of 7

SILTATION AND EROSION CONTROL NOTES

- TEMPORARY HAYBALE/SILT FENCE EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT SITE CONSTRUCTION. STOCK PILE ON SITE 50 HAY BALES AND 100 FT. OF SILT FENCE FOR EMERGENCY USE. TEMPORARY EROSION BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATIVE GROUND COVER IS ESTABLISHED.
- NO WORK MAY TAKE PLACE UNTIL ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND APPROVED BY THE COMMISSION OR ITS AGENTS. UPON THE INITIAL INSPECTION OF THESE CONTROL MEASURES, THE COMMISSION MAY REQUIRE INSTALLATION OF ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES AND/OR MEASURES DEEMED NECESSARY BY THE COMMISSION TO PROTECT THE RESOURCE.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE LEASE AREA AND ACCESS ROADWAY SHALL BE PERMANENTLY ESTABLISHED WITH A VEGETATIVE GROUND COVER. GRADED AREAS SHALL BE PROTECTED WITH STRAW MULCH UNTIL A GOOD VEGETATIVE COVER IS ESTABLISHED.
- STILLING BASIN SHALL BE UTILIZED FOR ANY DEWATERING DISCHARGE WHICH MAY OCCUR DURING CONSTRUCTION OPERATIONS.
- PROPOSED CONSTRUCTION IMPACTS AND PERMANENT IMPROVEMENTS SHALL NOT SIGNIFICANTLY IMPACT STORM WATER RUNOFF PATTERNS, VOLUME OR PEAK FLOW RATES. THE FLAT GRADE OF THE EQUIPMENT COMPOUND AND STONE SURFACE WILL PROMOTE STORM WATER INFILTRATION.
- DEBRIS, WHICH INCLUDES BUT IS NOT LIMITED TO CONSTRUCTION WASTE, BRUSH, AND EXCESS SOILS, MAY NOT BE STOCKPILED, STORED OR DISPOSED OF WITHIN WETLAND RESOURCE AREAS.
- DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF SILT FENCE ACTIVITIES.
- THE CONTRACTOR SHALL REMOVE TEMPORARY SILT FENCE AND HAYBALE DIKES AND ALL ACCUMULATED SILT AND DEBRIS AFTER COMPLETION OF CONSTRUCTION OPERATIONS.

STAKED HAYBALE NOTES

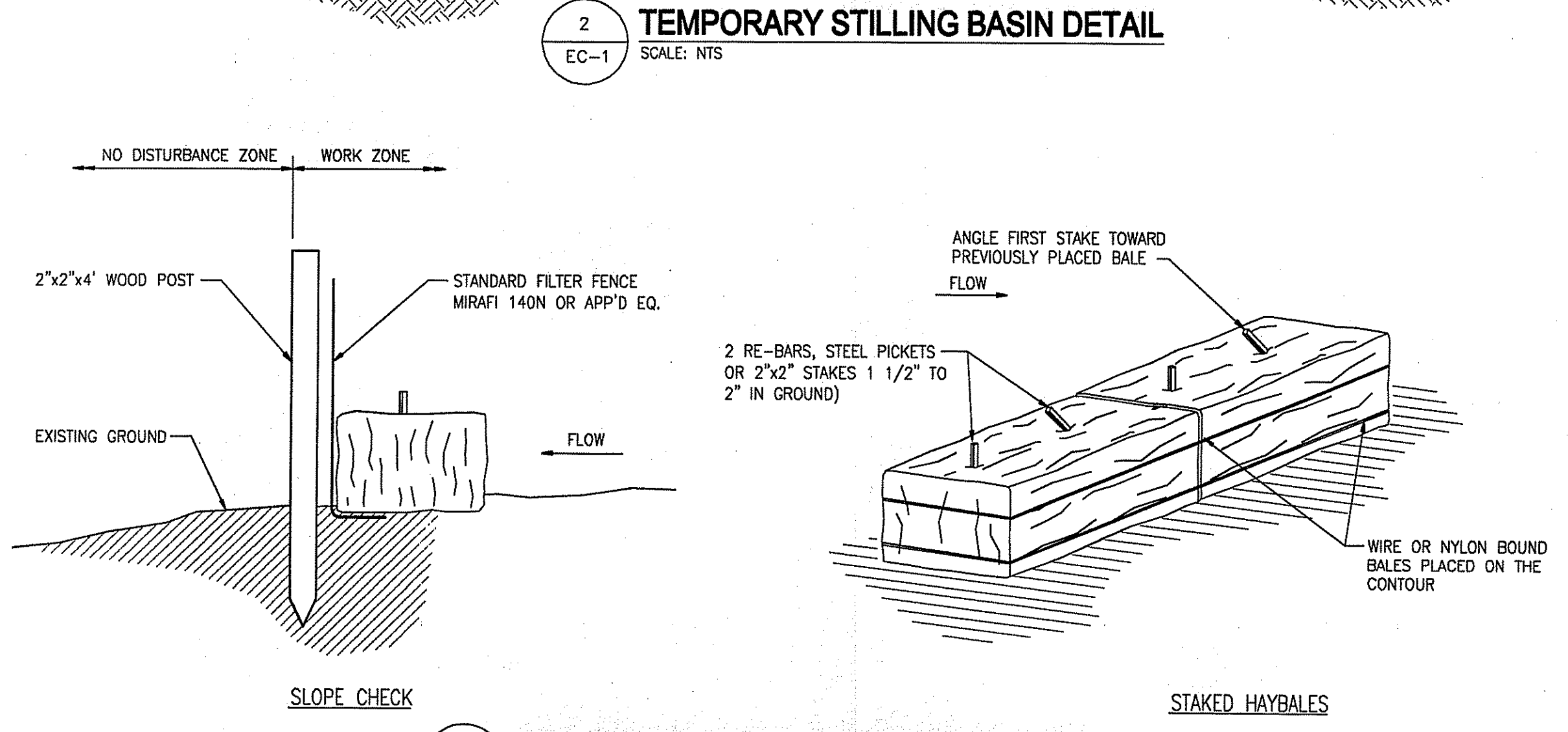
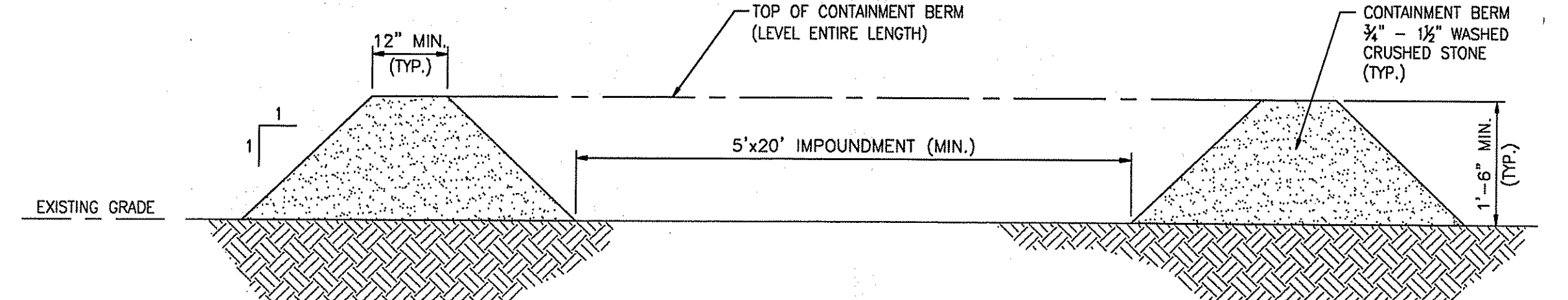
- BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES.
- EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4".
- BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR RE-BARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY PLACED BALE TO FORCE THE BALES TOGETHER.
- INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED JUN 3 2009 FILE # 09-0098
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE

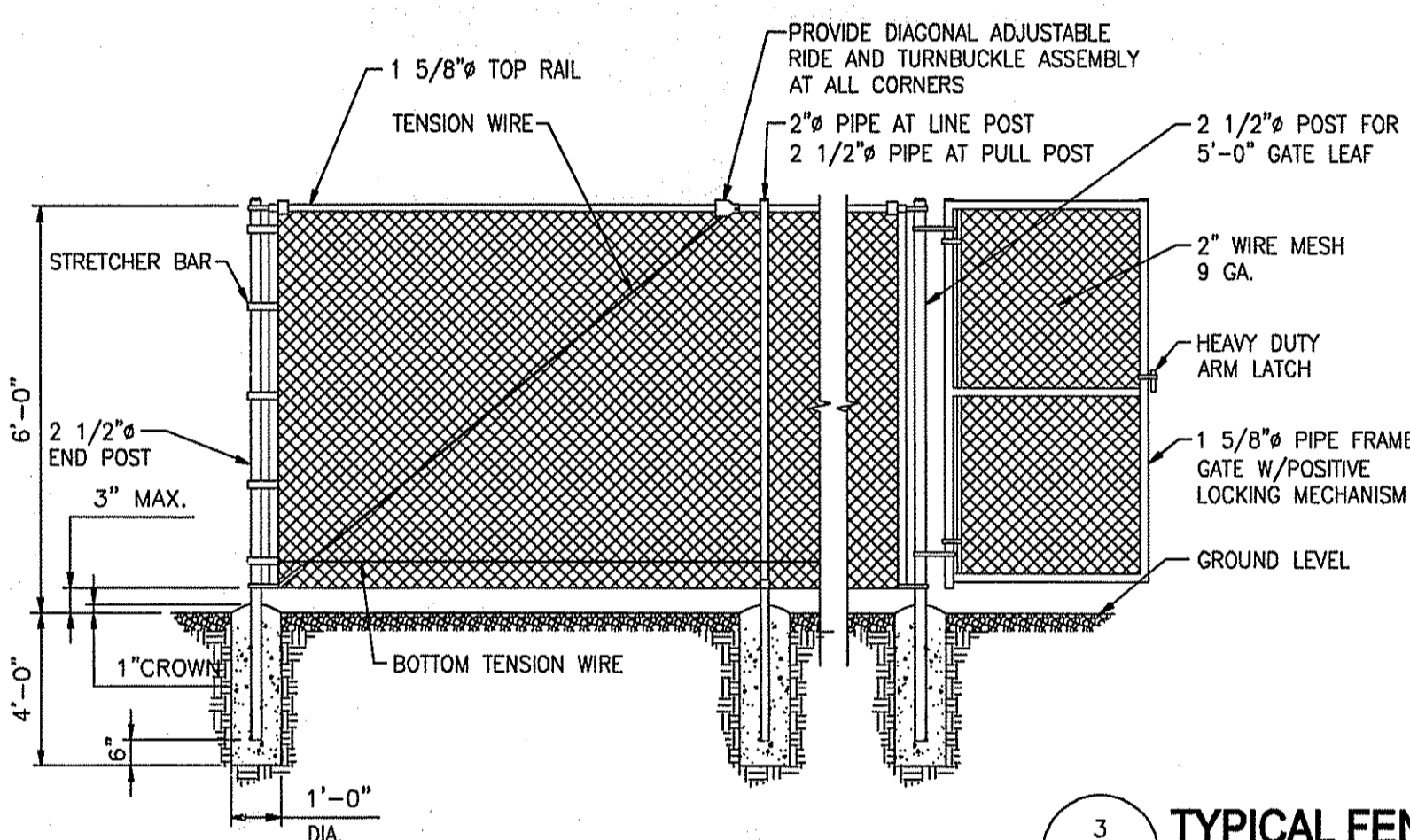
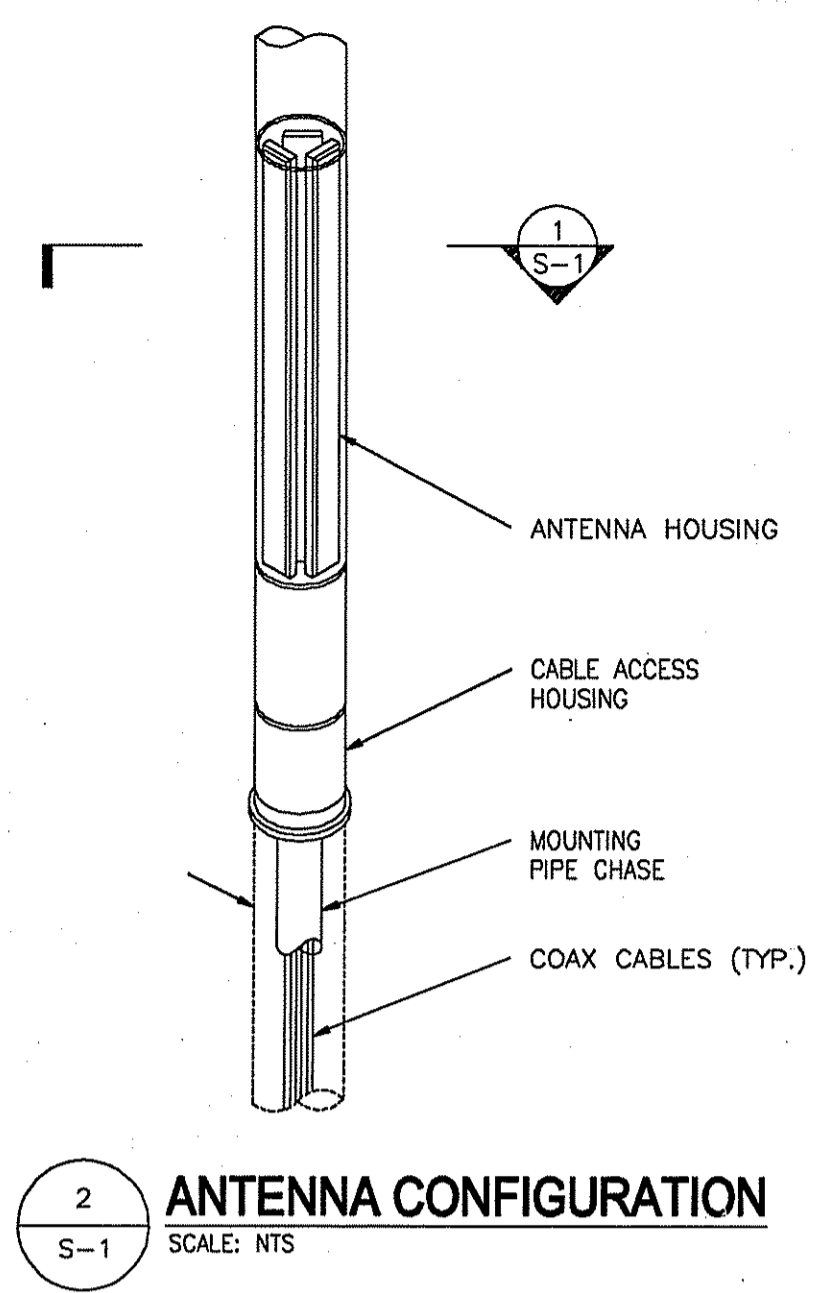
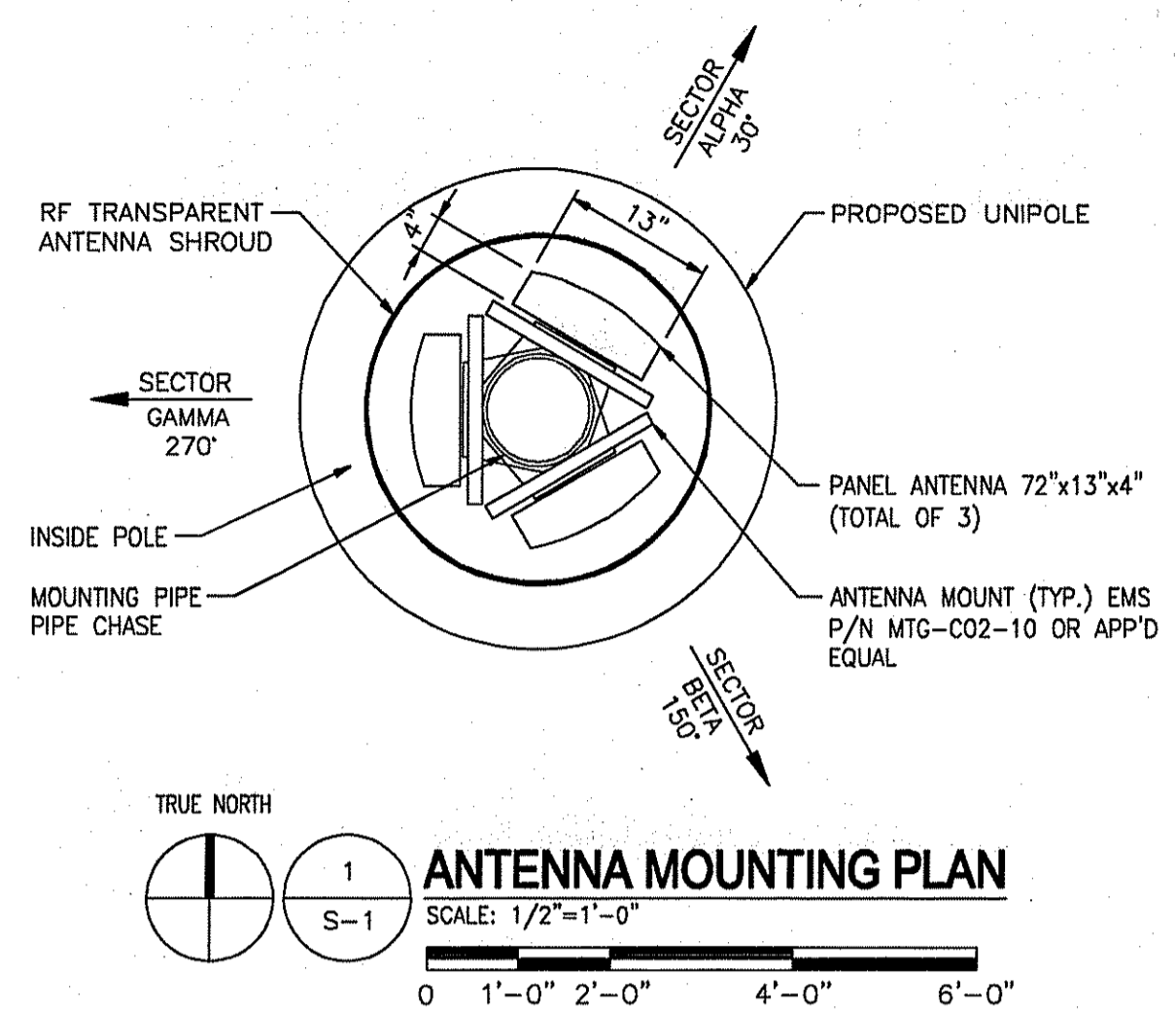
(EXISTING TOPOGRAPHY ONLY)

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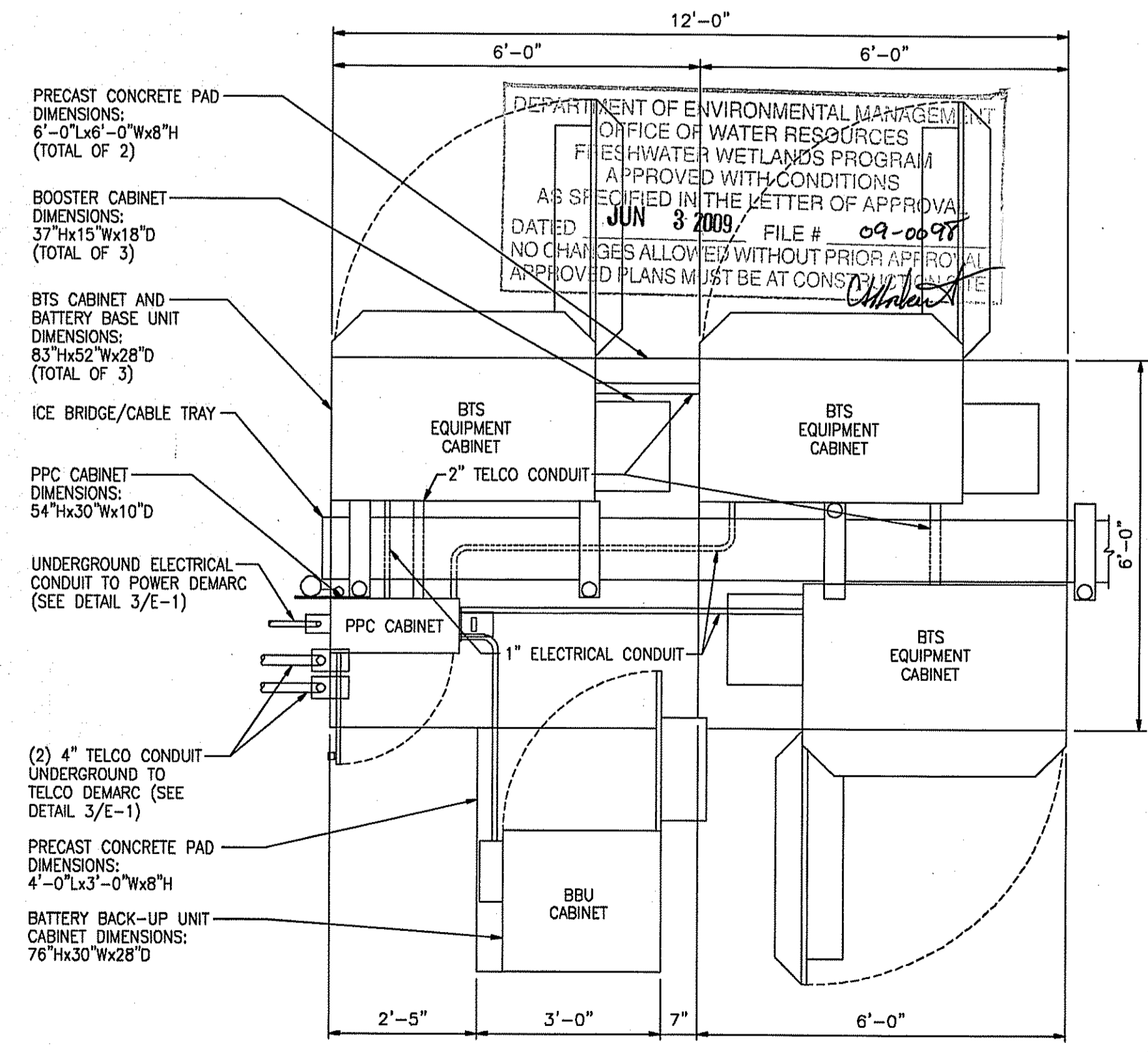
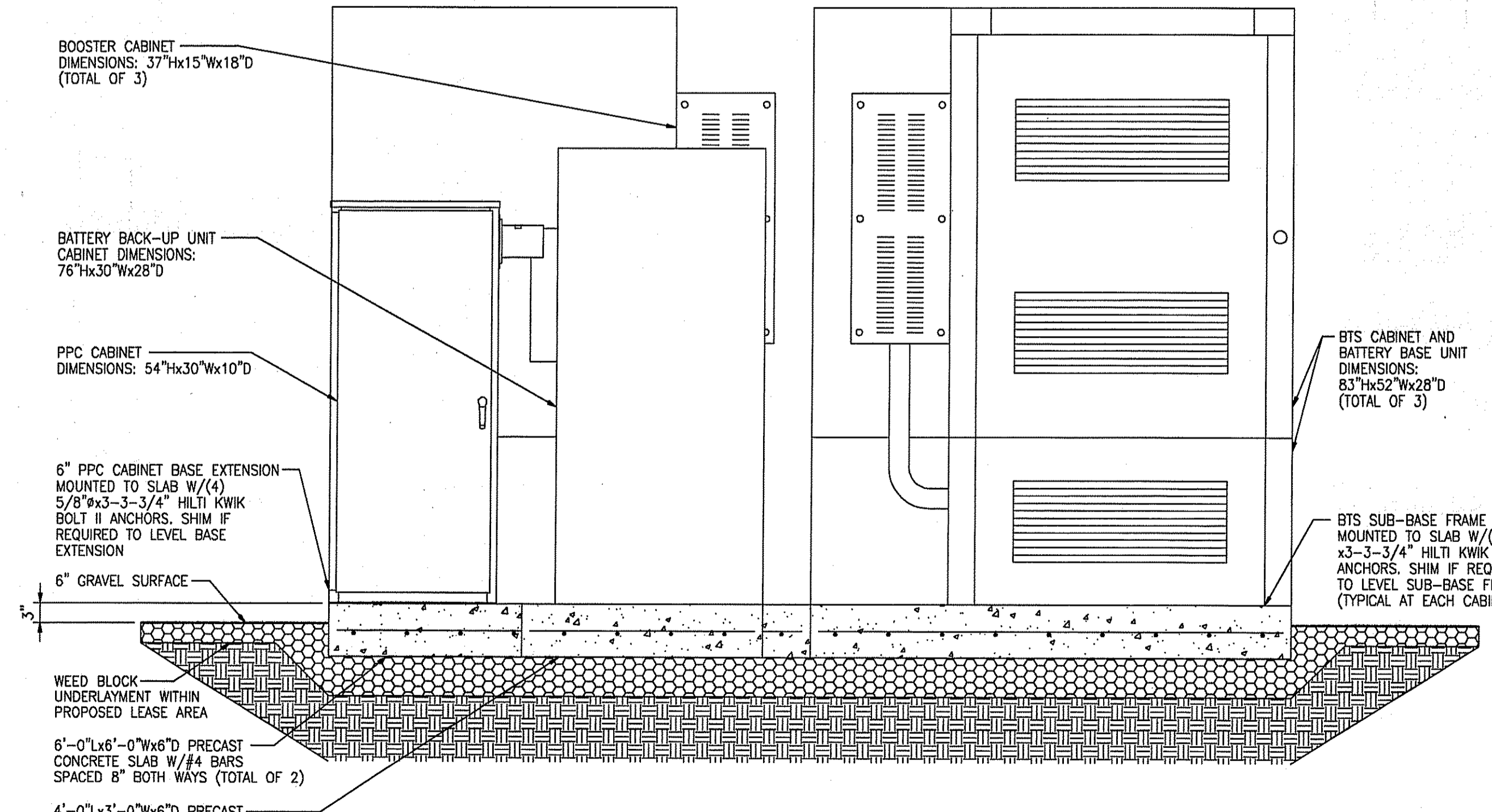
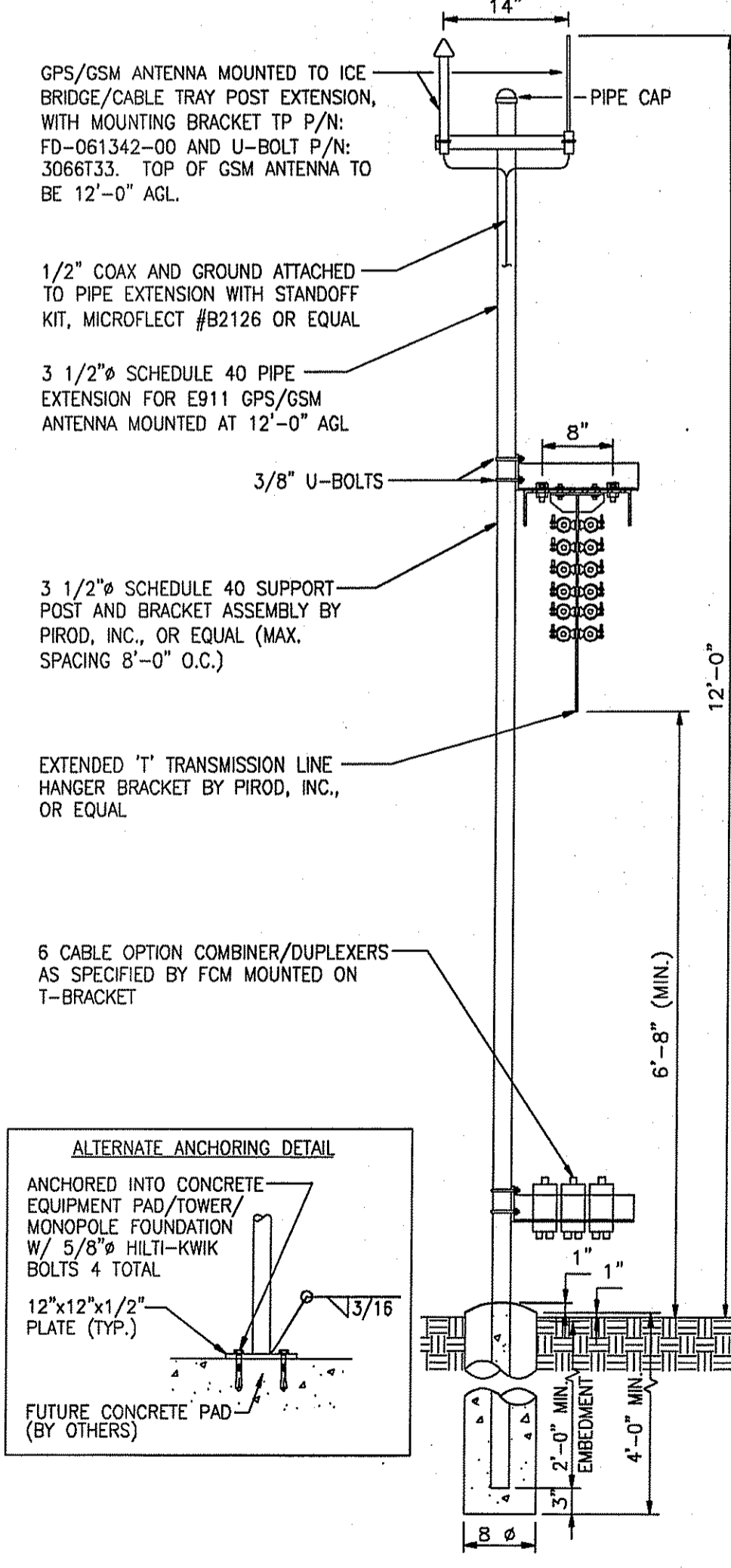
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SILT FENCE/HAYBALE BARRIER DETAILS



- FENCE NOTES:**
1. INSTALL FENCING PER ASTM F-567, SWING GATE PER ASTM F-900.
 2. ALL END POSTS, LINE POSTS, PULL POSTS, POSTS FOR GATE LEAF, PIPES FOR GATE FRAME AND TOP RAILS SHALL BE SCHEDULE 40 PIPE PER ASTM F-1083.
 3. FABRIC SHALL BE 12 GA. CORE WIRE SIZE 2" MESH CONFORMING TO ASTM A-392.
 4. TENSION WIRE SHALL BE 7 GA. GALV. STEEL.
 5. TIE WIRE SHALL BE 11 GA. GALV. STEEL (MIN.) AT POSTS AND RAILS. A SINGLE WRAP FABRIC TIE AT TENSION WIRE BY HOG RINGS SPACED MAX. OF 24" INTERVALS.
 6. STEEL FENCE SYSTEM SHALL INCLUDE THE FENCE POSTS, FABRIC, GATE SYSTEM AND ALL NECESSARY ERECTION ACCESSORIES, FITTINGS AND FASTENINGS. ALL FENCE SYSTEM COMPONENTS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153. GATES SHALL BE SWING GATES WITH 5'-0" LEAF. REFER TO TYPICAL FENCE DETAIL FOR ADDITIONAL INFORMATION. INSTALL FENCE AFTER CONCRETE HAS ATTAINED 75% OF 28 DAY DESIGN STRENGTH.



STRUCTURAL NOTES:

1. DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASCE7, EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
2. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER.
3. DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
4. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE INDICATED.
5. STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE A, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
6. STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA. UON.
7. ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
8. ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
9. FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZINC BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AWS AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.
11. INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
12. UNISTRUTS SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP, WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
13. EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF 1/2" DIAMETER STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS, AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-10 OR HY-150 SYSTEMS (AS SPECIFIED AN DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH.
14. EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT II OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM EMBEDMENT SHALL BE THREE AND ONE HALF (3 1/2) INCHES.
15. GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
16. CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
17. ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
18. THE FOLLOWING MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE:
 CONCRETE CAST AGAINST EARTH 3 INCHES.
 CONCRETE EXPOSED TO EARTH OR WATER
 #6 AND LARGER 2 INCHES
 #5 AND SMALLER 1 1/2 INCHES
19. ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS NOTED OTHERWISE.
19. LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.

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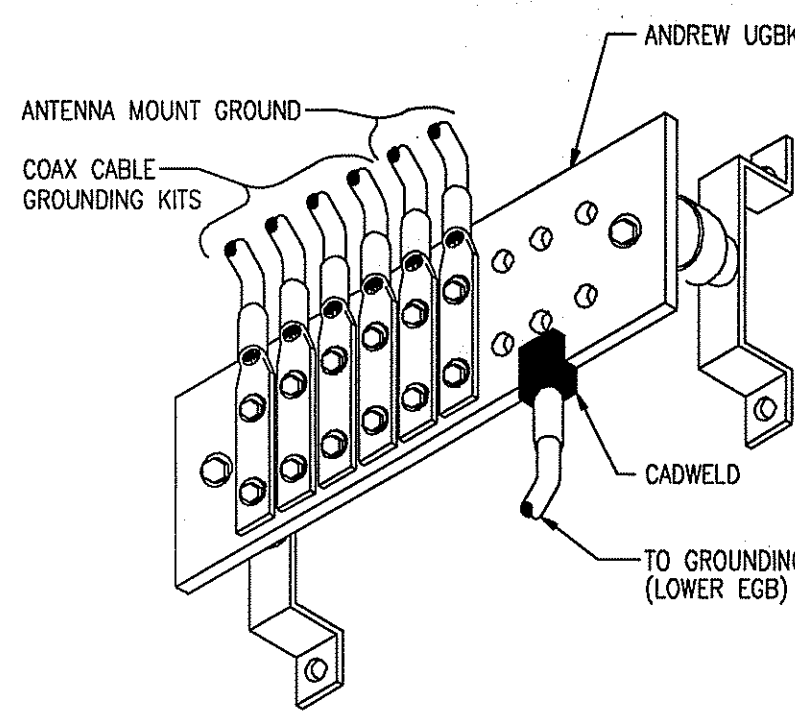
STRUCTURAL NOTES, PLANS, SECTIONS, AND DETAILS

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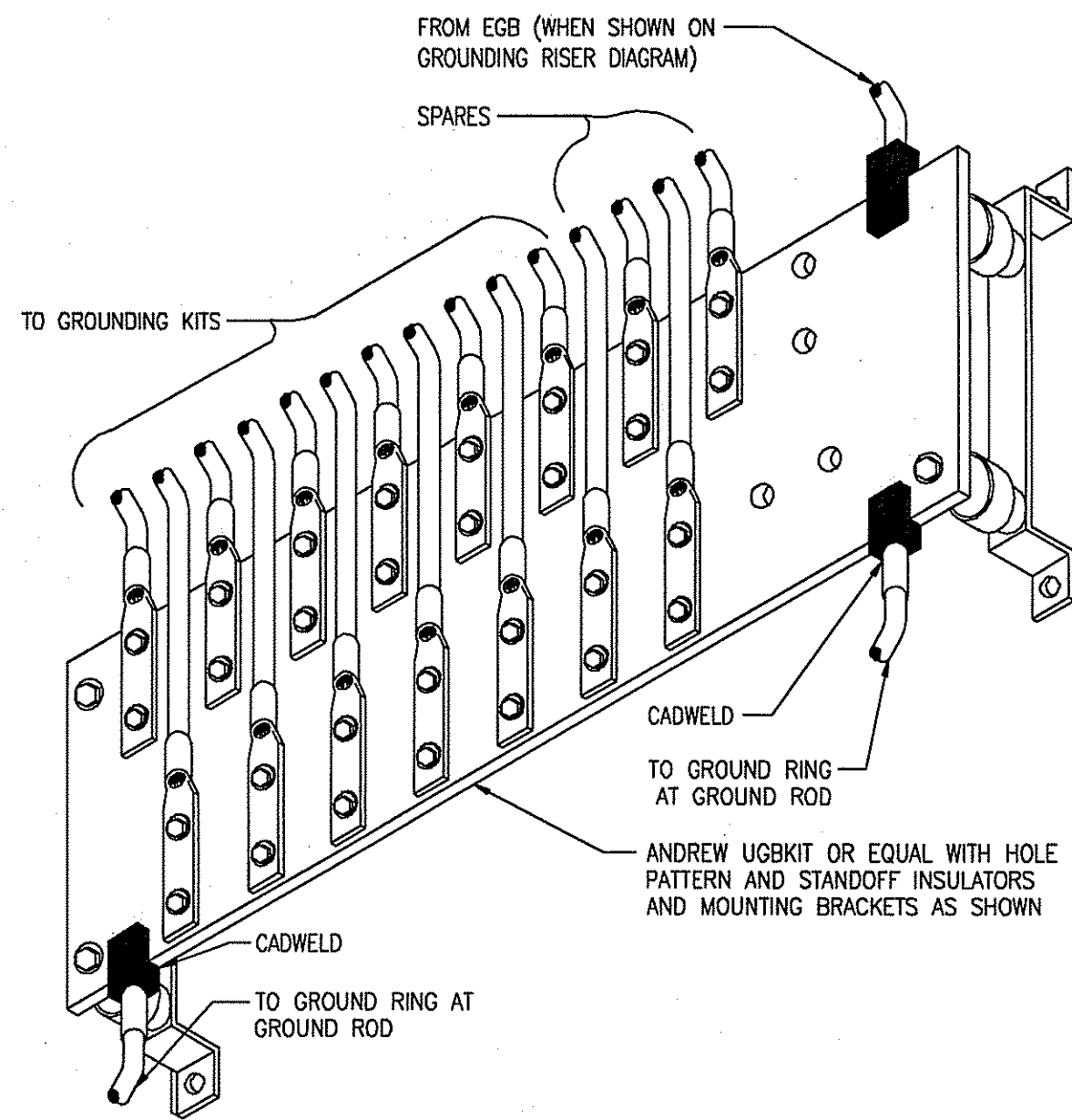
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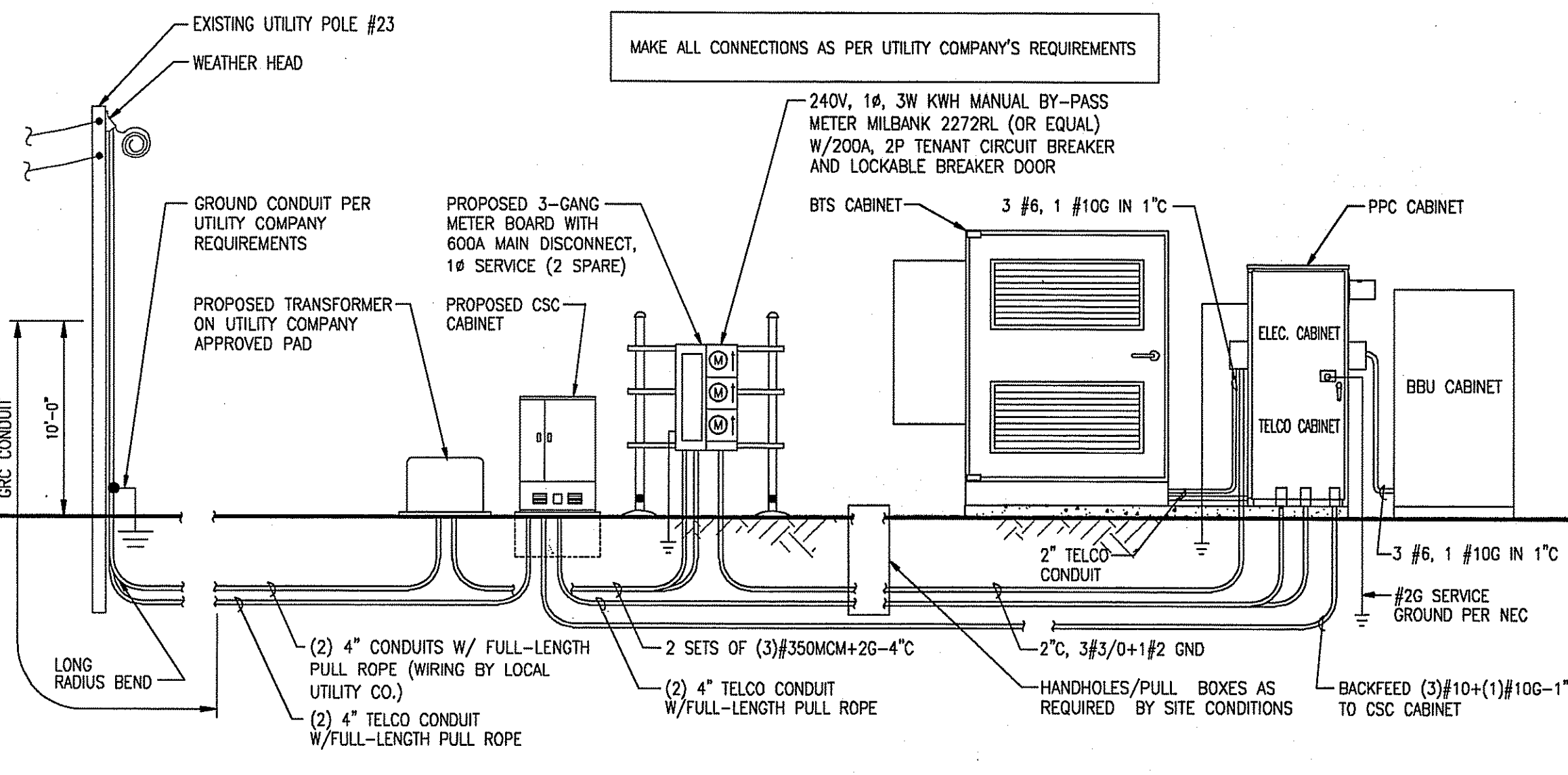
SHEET 6 of 7



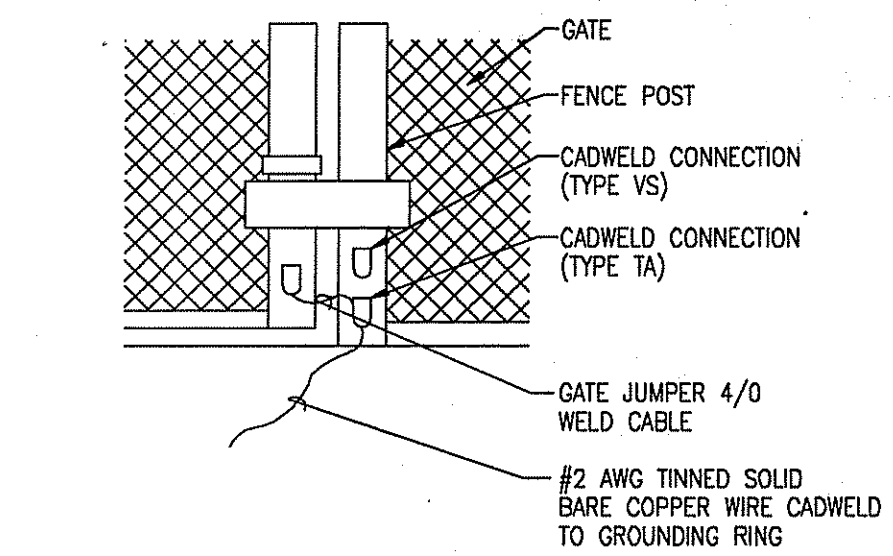
1 EQUIPMENT GROUND BAR (EGB)
SCALE: NTS



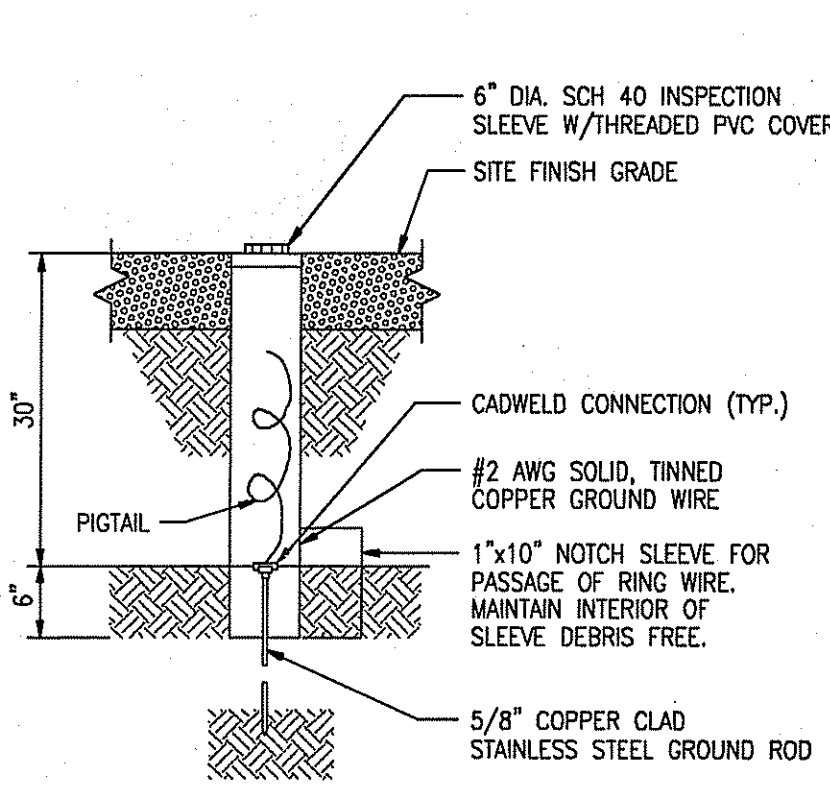
2 MASTER GROUND BAR (MGB)
SCALE: NTS



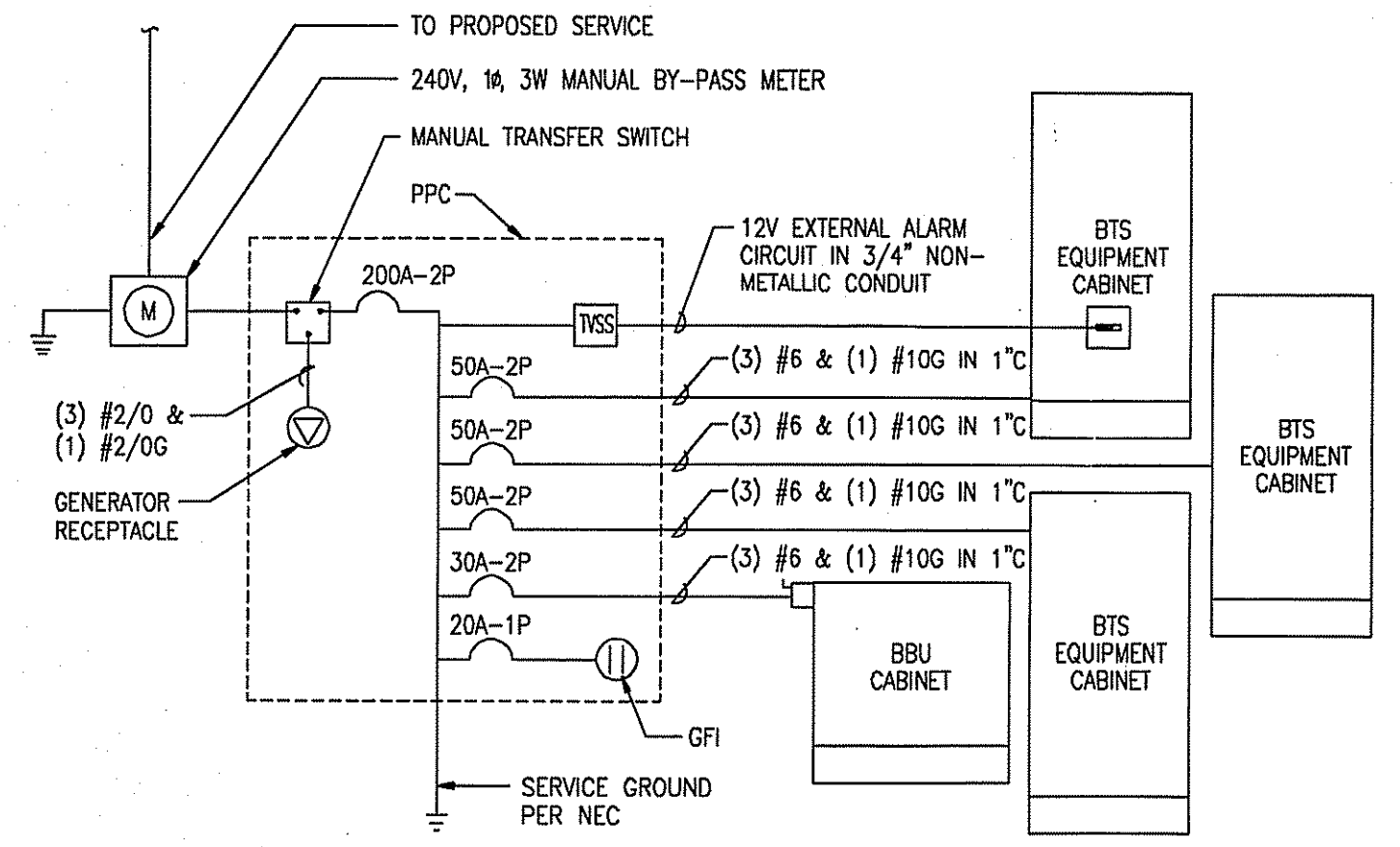
3 POWER RISER DIAGRAM
SCALE: NTS



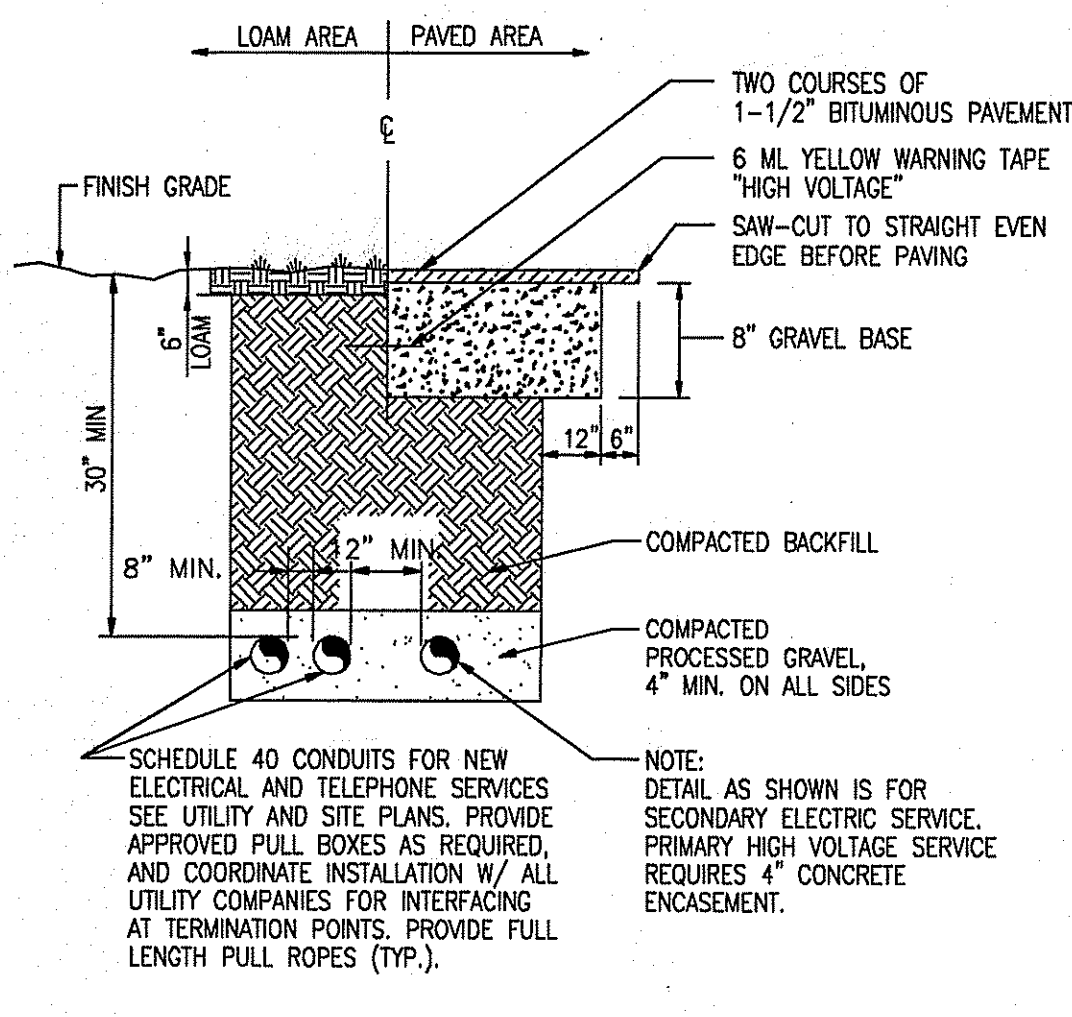
4 SWING GATE GROUNDING DETAIL
SCALE: NTS



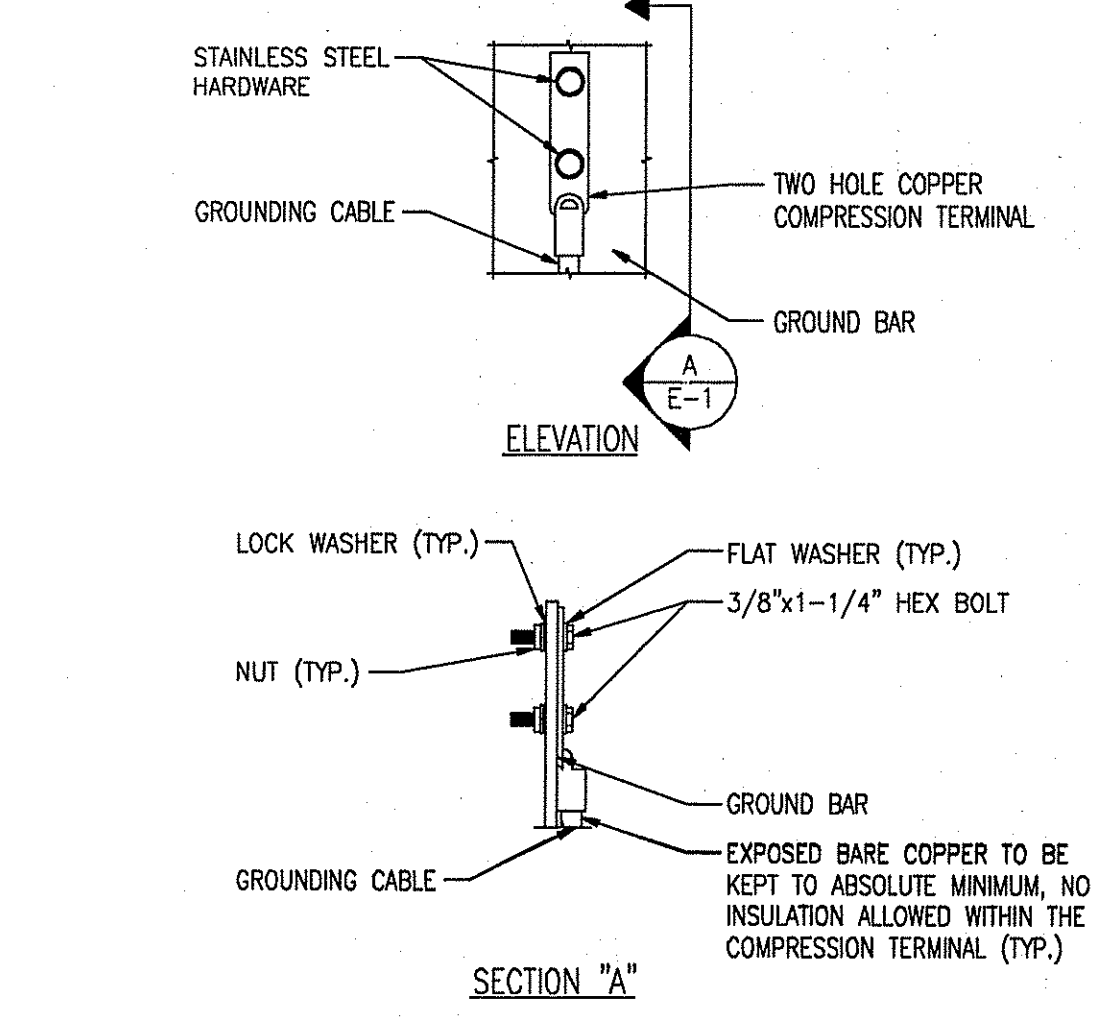
5 GROUND ROD TEST WELL DETAIL
SCALE: NTS



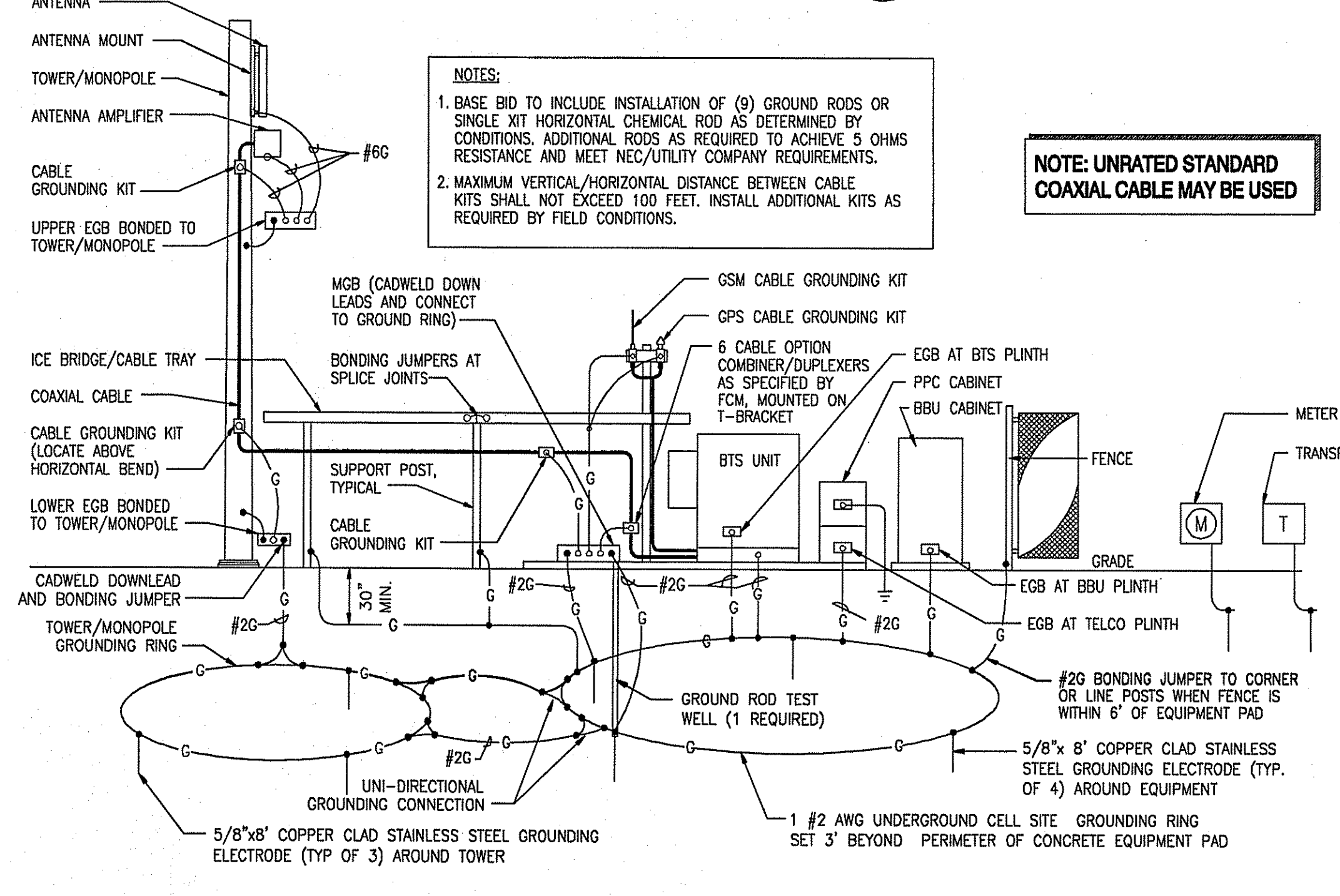
6 ONE LINE DIAGRAM
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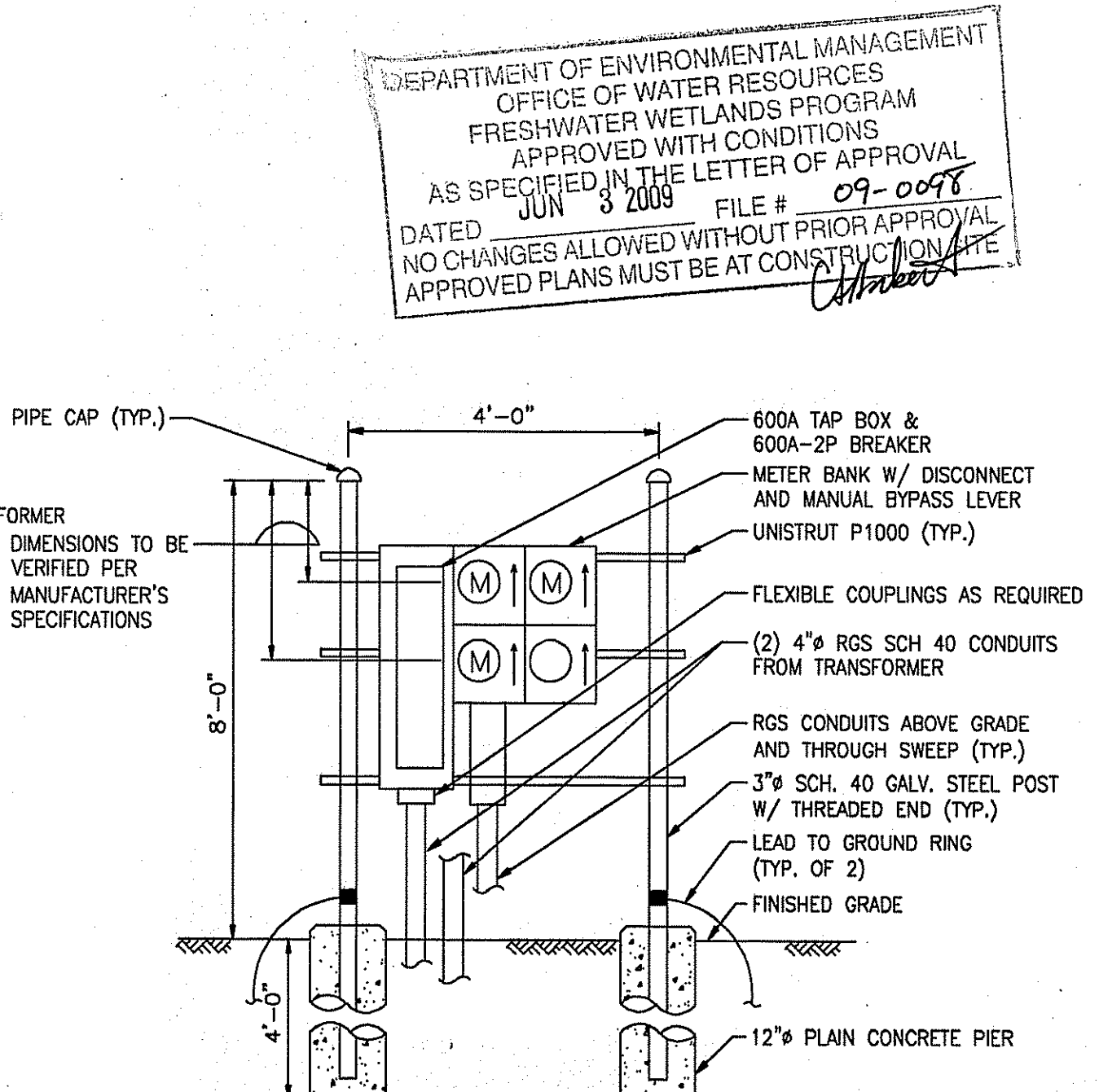
7 BURIED CONDUIT DETAIL
SCALE: NTS



8 TYPICAL GROUND BAR CONNECTIONS DETAIL
SCALE: NTS



9 GROUNDING RISER DIAGRAM
SCALE: NTS



10 METER BANK DETAIL
SCALE: NTS

ELECTRICAL LEGEND

	NEW PANEL BOARD, SURFACE MOUNTED
	EXISTING PANEL BOARD, SURFACE MOUNTED
	DRY TYPE TRANSFORMER
	METER
	CIRCUIT BREAKER
	NON-FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	FUSIBLE DISCONNECT SWITCH, MOUNTED 54" A.F.F.
	TRANSIENT VOLTAGE SURGE SUPPRESSOR WITH BUILT-IN FUSES, SURFACE MOUNTED
	DUPLEX OUTLET, SURFACE MOUNTED, 20 AMPS, 125 VOLTS, SINGLE PHASE
	JUNCTION BOX, SURFACE MOUNTED 18" A.F.F.
	EXPOSED WIRING
	HOME RUNS, MINIMUM 2#10 + 1#10G IN 3/4" CONDUIT U.O.N.
	A.F.F. ABOVE FINISHED FLOOR
	U.O.N. UNLESS OTHERWISE NOTED
	WP WEATHERPROOF
	GFI GROUND FAULT INTERRUPTER
	A AMPERE
	V VOLT
	KWH KILOWATT - HOUR
	C CONDUIT
	GRC GALVANIZED RIGID CONDUIT
	G GROUND
	MGB MASTER GROUND BAR
	EGB EQUIPMENT GROUND BAR
	G GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	C COAXIAL CABLE
	5/8"x8" COPPER CLAD STAINLESS STEEL GROUND ROD
	EXOTHERMIC (CADWELD) OR MECHANICAL (COMPRESSION TYPE) CONNECTION
	PPC POWER PROTECTION CABINET
	OMNI-DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALL

ELECTRICAL AND GROUNDING NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
- GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THHN, OR THHN INSULATION.
- RUN ELECTRICAL CONDUIT OR CABLE BETWEEN ELECTRICAL UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE PPC AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE. COORDINATE INSTALLATION WITH UTILITY COMPANY.
- RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO CABINET AND BTS CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE AND GREENLEAD CONDUIT MEASURING TAPE IN EACH INSTALLED TELCO CONDUIT.
- WHERE CONDUIT BETWEEN BTS AND PROJECT OWNER CELL SITE PPC AND BETWEEN BTS AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET ARE UNDERGROUND USE PVC, SCHEDULE 40 CONDUIT. ABOVE THE GROUND PORTION OF THESE CONDUITS SHALL BE PVC CONDUIT.
- ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE NEMA 3R ENCLOSURE.
- PPC SUPPLIED BY PROJECT OWNER.
- GROUNDING SHALL COMPLY WITH NEC ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH "T-MOBILE BTS SITE GROUNDING STANDARDS".
- GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
- USE #8 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING.
- ALL GROUND CONNECTIONS TO BE BURNDY HYGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- BOND ANTENNA MOUNTING BRACKETS, COAXIAL CABLE GROUND KITS, AND ALMA TO EGB PLACED NEAR THE ANTENNA LOCATION.
- APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MARKER SYSTEM (EMS) BALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING.
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MAXIMUM RESISTANCE REQUIRED.
- CONTRACTOR SHALL CONDUCT ANTENNA, COAX, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE-OUT.

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ELECTRICAL AND
GROUNDING NOTES,
RISERS, AND DETAILS

SHEET NUMBER
E-1
SHEET 7 of 7