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ELISABETH N. RADOW
ROBERT C. SCHNEIDER

August 11, 2006

VIA OVERNIGHT MAIL

Hon. Colin C. Tait, Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

Re: National Grid Wireless (f/k/a Gridcom)
Docket No. 307
Derby, Connecticut
D&M Plan

RECEIVED
AUG 14 2006
CONNECTICUT
SITING COUNCIL

Dear Chairman Tait and Members of the Connecticut Siting Council:

On behalf of National Grid Wireless (f/k/a Gridcom), enclosed please find 25 sets of plans and other development and management ("D&M") materials relevant to the Derby Facility approved by the Siting Council in Docket No. 307. The enclosed are being filed in accordance with the Council's Decision and Order and Certificate of Environmental Compatibility and Public Need ("Certificate") dated April 27, 2006.

The proposed D&M Plan for the Derby Facility includes a monopole not to exceed 120' above grade level ("AGL"), as provided in Order No. 1. One carrier, T-Mobile, is currently planned for the initial construction and will internally mount three panel antennas at an antenna centerline mounting height of 117' AGL. As such, the height at the top of the antennas will not exceed 120' AGL as provided in Order No.1. In order to accommodate future collocation, the monopole is structurally designed to support up to four (4) carriers' antennas.

CUDDY & FEDER LLP

August 11, 2006
Page 2

As required by Order No.2, the proposed D&M Plan includes detailed site plans of the access, the 40' x 40' fenced equipment compound, utility lines and landscaping. Also included are the tower and foundation designs, detailed antenna mounting specifications and equipment and security fence details. The proposed D&M Plan also includes construction plans for the site clearing, water drainage and erosion and sedimentation controls consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sedimentation Control, as amended.

Consistent with Order No.3, representatives of National Grid Wireless met with the Mayor of Derby to discuss the monopole design. The Mayor invited the representative of the local community group to the meeting, which took place on June 20, 2006. Several alternatives for the tower design were discussed at the meeting including the proposed design with flush-mounted antennas, a monopole with internally mounted antennas, and a flagpole facility. Based on its experience with designing, constructing and maintaining wireless telecommunications facilities, National Grid Wireless suggested that a non-flag facility be selected for this particular site to minimize visual impacts to the greatest extent practicable. A flagpole facility would require lighting, and the flag and lighting would add out-of-place visual receptors to an area that is wooded with mature vegetation.

Subsequent to the meeting, the local community representative indicated in correspondence to the Mayor that the first choice of the residents she spoke with regarding the facility design is a flagpole facility and the second choice is a monopole with internally mounted antennas. In a follow up phone call to the Mayor regarding the facility design, the Mayor indicated that either design was acceptable and deferred to the local community's suggestions on the facility design.

As mentioned above, in order to minimize the visual impacts of a flagpole facility that would require lighting, the proposed D&M Plan includes a monopole with internally mounted antennas which can accommodate a flag, if required.

In accordance with the provisions of RCSA Section 16-50j-77, National Grid Wireless hereby notifies the Council of its intention to begin site clearing work, followed by construction of the foundations, monopole and associated equipment compound at the site immediately after Council approval of the D&M Plan. National Grid Wireless expects all construction to be completed by December, 2006. The supervisor for all construction related matters on this project is Mr. Rob Beatty. Mr. Beatty can be contacted at (617) 293-7210.

CUDDY & FEDER LLP

August 11, 2006
Page 3

We respectfully request that this matter be included on the Council's next available agenda for review and approval. Thank you for your consideration of the enclosed.

Very truly yours,



Lucia Chiochio

Enclosures

Cc: Ronald C. Clark
Kenneth Ira Spigle, Esq.
Mayor Tony Staffieri
Joseph Copolla, Esq.
Nancy Marren

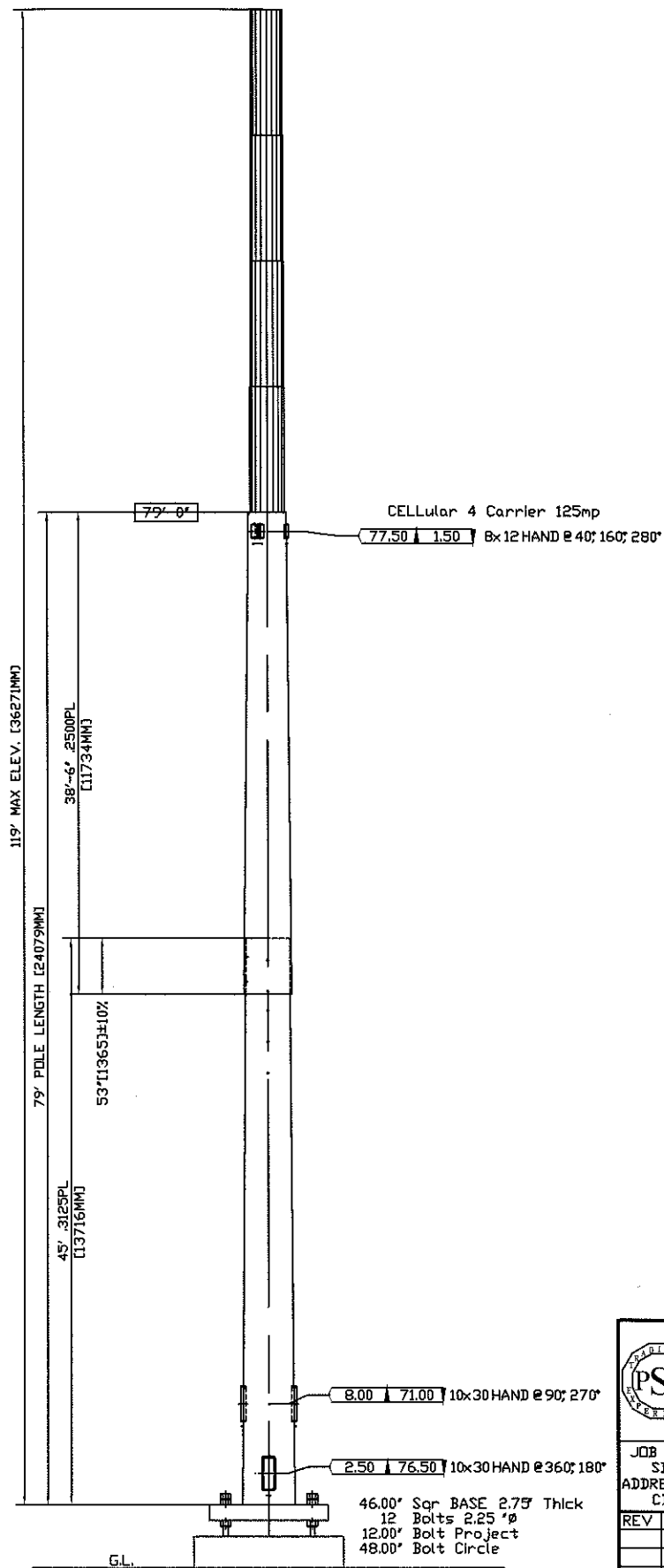
POLE SPECIFICATIONS	
POLE HEIGHT	79.00 FEET
TAPER	.1500 IN/FT
POLE SHAPE	18 SIDED POLYGON
ORIENTATION	FLAT-FLAT


No	QTY	ELEV ft	Fu	SUPPORT/LIGHT DESCRIPTION
1	1	79.00		CELLular 4 Carrier 125mp

Sec	LENGTH (ft)	Flat-Flat TOPØ BOTØ	THICK (in)	WEIGHT (lbs)	STEEL SPEC	FINISH
1	38.50	30.00 35.78	.2500	3393	A572-65	Galv
2	45.00	34.60 41.35	.3125	5720	A572-65	Galv
BP	46.00	12 32.00	2.750	916	A572-50	Galv
AB	84.00	2.25 2.625	TOTAL	10029	A615-75	Galv-18'

LOAD CASE DESCRIPTION	WIND (mph)	D.L.F. VERT.	RAD. ICE	FACTORS GUST	CF	WIND (psf)
1) 1.2 Dead, 1.6 Wind	115.00	1.20	.00	1.10	.65	56.61
2) 0.9 Dead, 1.6 Wind	95.00	.90	.00	1.10	.65	38.63
3) 1.2 Dead, 1.0 Wind	50.00	1.20	.75	1.10	.65	6.69
4) Dead + Wind - Serv	60.00	1.20	.00	1.10	.65	9.63
5) 1.2 Dead, 1.0 Ice	50.00	1.20	.75	1.10	.65	.00
6) Dead Only	115.00	1.00	.00	1.10	.65	.00

LOAD CASE DESCRIPTION	RES. Axial (kips)	BASE Shear (kips)	REACT Mom (ft-k)	DISP (ft)	TDSP SWAY (deg)
1) 1.2 Dead, 1.6 Wind	12.9	29.5	1997	3.0	3.57
2) 0.9 Dead, 1.6 Wind	9.6	20.1	1361	2.0	2.43
3) 1.2 Dead, 1.0 Wind	20.6	4.6	288	.4	.49
4) Dead + Wind - Serv	12.9	4.5	304	.5	.54
5) 1.2 Dead, 1.0 Ice	20.6	.0	0	.0	.00
6) Dead Only	10.7	.0	0	.0	.00





**PennSummit
Tubular, LLC**

225 KIVANIS BOULEVARD
WEST HAZLETON, PA 18202
www.pennsummit.com
PHONE: 888-847-6537
FAX: 888-460-6885

PAGE
1

DATE
14-Jul-06
Fri 11:48

JOB NO: 00000 CUSTOMER: NATIONAL GRID WIRELESS
 SITE: 79.00ft DERVY, CT CT-03105
 ADDRESS: CITY: STATE: CT COUNTY: NEW HAVEN

REV	DATE	DESCRIPTION	SCALE	N.T.S.

DRAFT:
ENG:
DRAWING NO.
00000-DE1

CT11618 SAINT JUDE'S CHURCH

nationalgrid Wireless

nationalgrid
Wireless

NATIONAL GRID WIRELESS
80 CENTRAL STREET
BOXBOROUGH, MA 01719

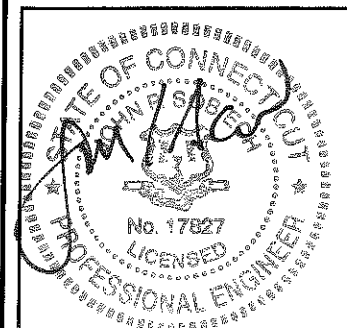
Drawing Copyright © 2006 Clough Harbour & Associates LLP



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2139 Silas Deane Highway, Suite 212 - Rocky Hill, CT 06067-2336
Main: (860) 257-4557 - www.cloughharbour.com

CHA PROJECT NO:
14980 - 1004 - 1601

NO.	DATE	REVISION
0	05/26/06	ISSUED FOR REVIEW
	BY: JAS	CHK: PAL APP'D: JPS
1	05/02/06	ISSUED FOR CONSTRUCTION
	BY: JAS	CHK: PAL APP'D: JPS
2	08/02/06	REVISED PER COMMENTS
	BY: CMM	CHK: PAL APP'D: JPS



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE ID:
CT11618
SITE NAME:
SAINT JUDE'S CHURCH
SITE ADDRESS:
71 PLEASANT VIEW RD
DERBY, CT
06418
NEW HAVEN COUNTY

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T01

PROJECT SUMMARY

SITE NUMBER: CT11618
SITE NAME: SAINT JUDE'S CHURCH
SITE ADDRESS: 71 PLEASANT VIEW ROAD
DERBY, CT 06418

PROPERTY OWNER: ST. JUDE ROMAN CATHOLIC
PARISH CHURCH
71 PLEASANT VIEW ROAD
DERBY, CT 06418

APPLICANT: NATIONAL GRID WIRELESS
80 CENTRAL STREET
BOXBOROUGH, MA 01719

CONTACT: ROB BEATTY
(617) 293-7210

2C COORDINATES: 41° 18' 54.15"N
73° 03' 51.53"W

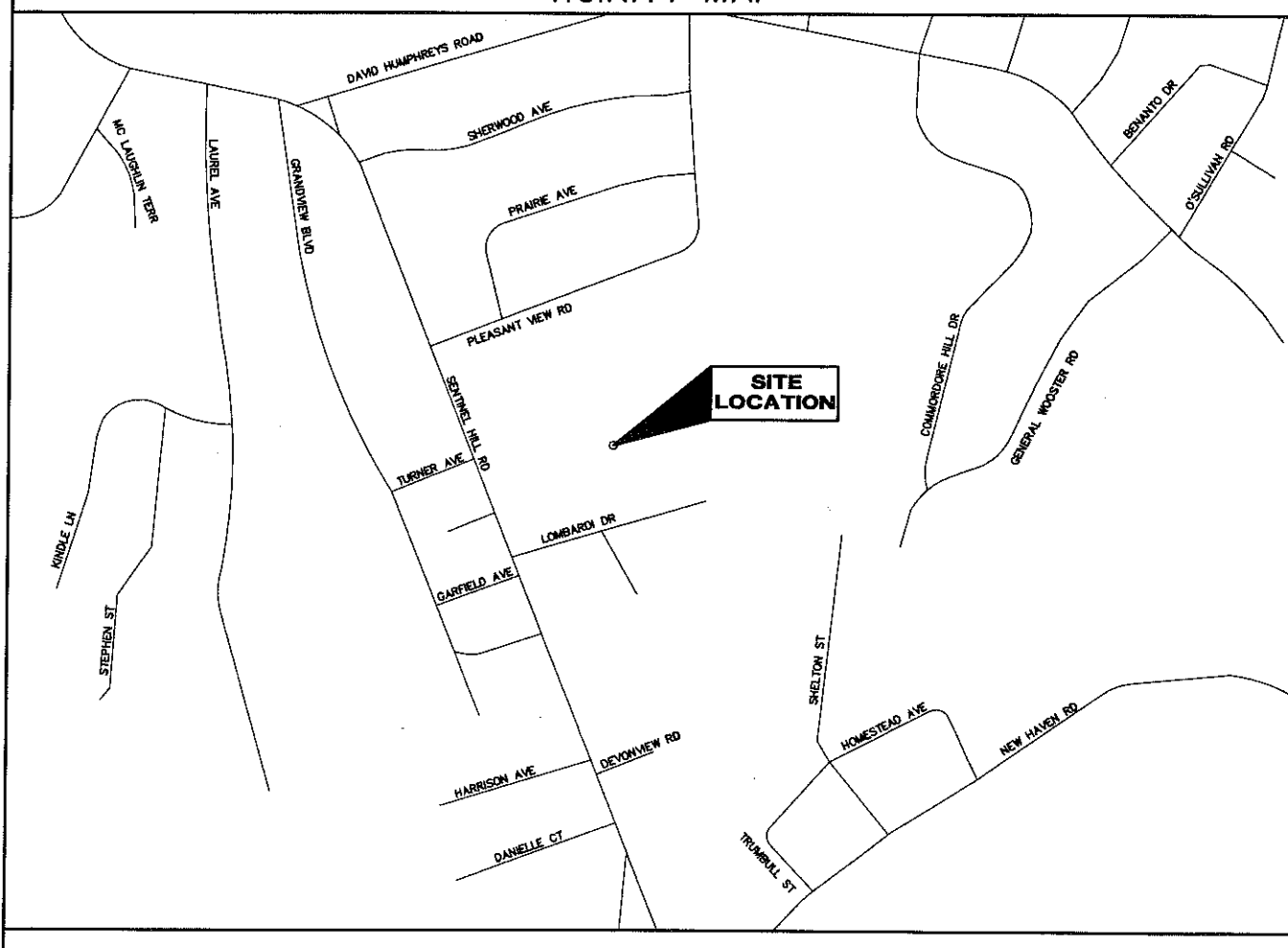
HORIZONTAL DATUM: NAD 83
GROUND ELEVATION: 366' AMSL

TAX M-B-L: 5-8/113
CURRENT ZONING: PUBLIC, SEMI-PUBLIC (P)

ENGINEER: CLOUGH HARBOUR & ASSOCIATES LLP
2139 SILAS DEANE HIGHWAY
SUITE 212
ROCKY HILL, CT 06067

CONTACT: PAUL LUSITANI
(860) 257-4557

VICINITY MAP



SHEET INDEX

SHEET NO:	SHEET TITLE	REVISION HISTORY	
		NO:	DATE
T01	TITLE SHEET	2	08 / 02 / 06
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C02	EROSION CONTROL & GRADING PLAN	2	08 / 02 / 06
C03	COMPOUND PLAN & TOWER ELEVATION	2	08 / 02 / 06
C04	SITE DETAILS	2	08 / 02 / 06
S01	STRUCTURAL DETAILS	2	08 / 02 / 06
E01	ELECTRICAL SITE PLAN	2	08 / 02 / 06
E02	ELECTRICAL RISERS & DETAILS	2	08 / 02 / 06
E03	GROUNDING PLAN	2	08 / 02 / 06
E04	GROUNDING DETAILS	2	08 / 02 / 06

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME

CT
CALL BEFORE YOU DIG
SAVE BIG, CALL BEFORE YOU DIG.
1-800-922-4455

DRIVING DIRECTIONS

FROM I-91 SOUTHBOUND:
- MERGE ONTO CT-15 S / WILBUR CROSS PKWY VIA EXIT 17
- MERGE ONTO CT-34 W VIA EXIT 58 TOWARD DERBY
- TURN RIGHT ON SENTINEL HILL RD
- TURN RIGHT ON PLEASANT VIEW RD
- SITE WILL BE ON RIGHT

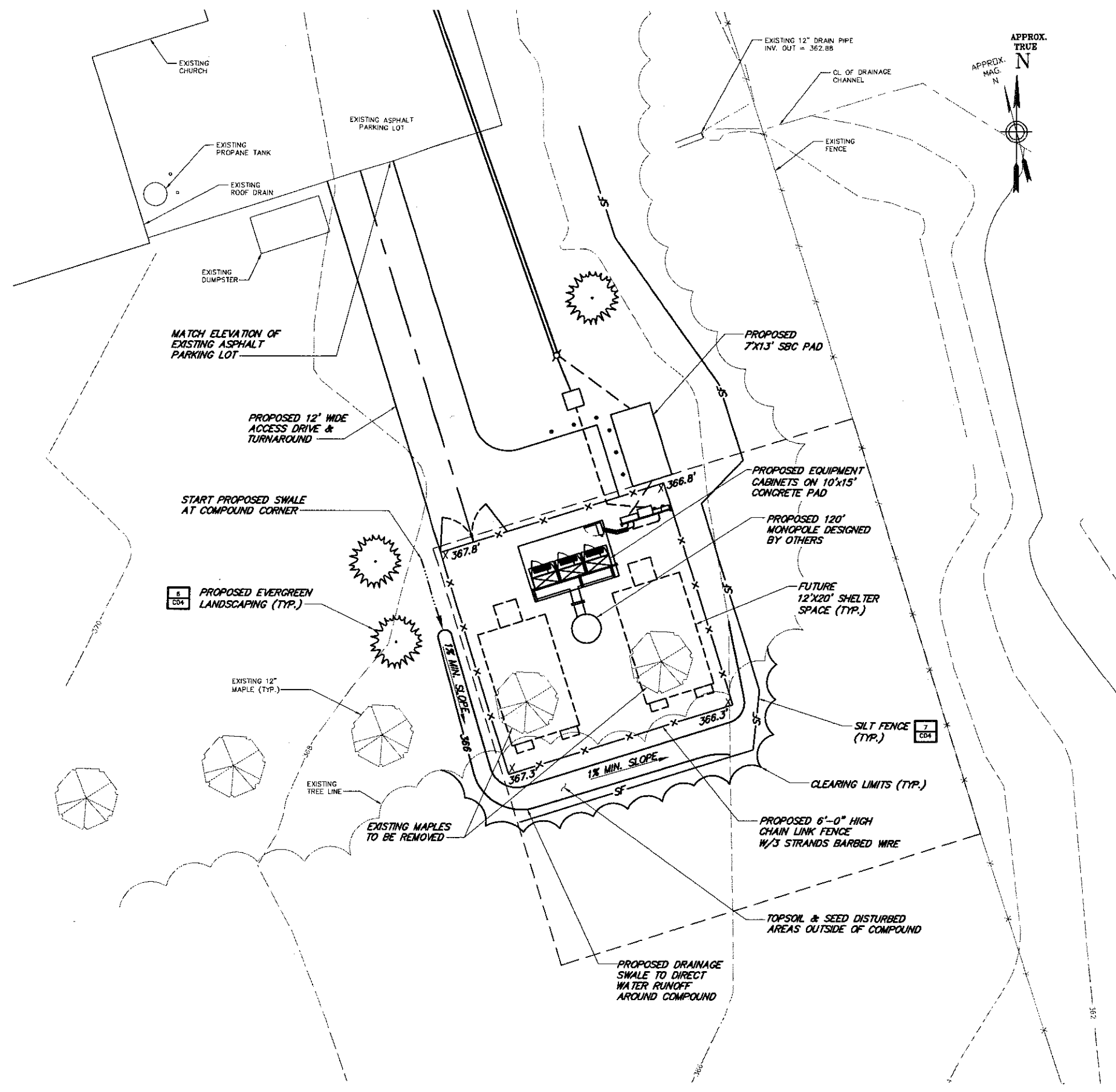
PROJECT DESCRIPTION

THIS PROJECT PROPOSES A 40' x 40' GRAVEL COMPOUND SURROUNDED BY 6 FT HIGH FENCE AND LANDSCAPED WITH 4 FT HIGH EVERGREEN TREES. LOCATED INSIDE THE COMPOUND WILL BE A PROPOSED 120 FOOT HIGH MONOPOLE WHICH WILL HAVE 3 ANTENNAS LOCATED AT AN ELEVATION OF 117 FEET ON THE TOWER. TELECOMMUNICATIONS EQUIPMENT IN CABINETS WITH ASSOCIATED ELECTRICAL AND TELEPHONE SERVICES WILL BE LOCATED IN THE COMPOUND. MAINTENANCE VISITS WILL CONSIST OF ONE VISIT PER MONTH BY A TECHNICIAN IN A PICKUP TRUCK.

AUGUST 2, 2006

FILE: W:\NATIONAL GRID WIRELESS\14990\SITES\1004\DERBY-CT\CD\CT11618-02.DWG. Saved: 8/2/2008 2:33:54 PM. Plotted: 8/10/2008 12:52:45 PM. User: Rem, km

DEVELOPMENT & MANAGEMENT PLAN REQUIREMENTS	
SEC. 16-50J-76 ELEMENTS OF A D&M PLAN	
(a) PLAN DRAWINGS: MAP AT 1" = 100' OR LESS	
(1) EDGES OF PROPOSED SITE AND EXISTING TOWER & EQUIPMENT SITES CONTIGUOUS TO OR CROSSING IT	INCLUDED IN PLANS, NO EXISTING SITES NEAR PROPOSED SITE
(2) PUBLIC ROADS & LAND CROSSING OR ADJOINING SITE	INCLUDED IN PLANS
(3) APPROXIMATE 10' CONTOURS	INCLUDED IN PLANS
(4) THE EXACT LOCATION, TYPE, AND HEIGHT OF THE PROPOSED TOWER AND ASSOCIATED EQUIPMENT, POSITION OF GUYS, GENERALIZED DESCRIPTION OF FOUNDATIONS, AND THE LOCATION OF ANY UTILITY OR OTHER STRUCTURES TO REMAIN ON SITE OR TO BE REMOVED.	THE EXACT LOCATION & HEIGHT OF THE TOWER AND EQUIPMENT IS INCLUDED IN THE PLANS. GENERAL INFORMATION ON THE TOWER AND FOUNDATION IS PROVIDED. DETAILED INFORMATION ON THE TOWER AND FOUNDATION WILL BE PROVIDED BY THE TOWER MANUFACTURER. ALL STRUCTURES TO REMAIN OR TO BE REMOVED ARE SHOWN.
(5) THE PROBABLE POINTS OF ACCESS TO THE SITE INCLUDING ALTERNATIVES OR OPTIONS TO THE PROBABLE POINTS OF ACCESS.	INCLUDED IN PLANS
(6) EDGES OF EXISTING AND PROPOSED CLEARING AREAS	INCLUDED IN PLANS
(7) SENSITIVE AREAS AND CONDITIONS WITHIN AND ADJOINING THE TOWER SITE, INCLUDING BUT NOT LIMITED TO:	
(A) WATERCOURSES, ANY AREAS REGULATED UNDER THE INLAND OR TIDAL WETLANDS ACTS, AND ANY LOCATIONS WHERE CONSTRUCTION MAY CREATE DRAINAGE PROBLEMS.	THE LOCATION OF EXISTING WETLANDS ARE SHOWN ON THE SITE. CONSTRUCTION ACTIVITIES WILL NOT INTERFERE WITH THE EXISTING DRAINAGE PATTERN.
(B) AREAS OF HIGH EROSION POTENTIAL	AREAS OF HIGH EROSION POTENTIAL DO NOT EXIST SINCE THE SITE HAS A MILD GRADE AND IS MOSTLY DEVELOPED WITH LANDSCAPING FEATURES TO STABILIZE THE SOIL. POTENTIAL FOR EROSION DURING CONSTRUCTION WILL BE HANDLED AS SHOWN IN THE EROSION CONTROL PLAN.
(C) ANY KNOWN CRITICAL HABITATS OR SITES IDENTIFIED AS HAVING RARE OR ENDANGERED PLANT OR ANIMAL SPECIES LISTED BY FEDERAL AND STATE GOVERNMENT AGENCIES.	NONE EXIST ON SITE. PLEASE REFER TO NEPA INCLUDED IN THE APPLICATION.
(D) SPECIAL OR UNUSUAL FEATURES, SUCH AS SIGNIFICANTLY LARGE OR OLD TREES, BUILDINGS, MONUMENTS, OR AREAS OF LOCAL INTEREST.	NO SPECIAL OR UNUSUAL FEATURES EXIST ON SITE.
(b) SUPPLEMENTAL INFORMATION	
(1) SPECIAL ENVIRONMENTAL CONSIDERATIONS ARISING FROM PECULIAR OR UNUSUAL SITE CHARACTERISTICS	NONE EXIST ON SITE.
(2) SPECIAL DESIGN FEATURES REQUIRED BY PECULIAR OR UNUSUAL SITE CHARACTERISTICS	NO SPECIAL DESIGN FEATURES REQUIRED.
(3) PROCEDURES THAT WILL BE TAKEN TO PROTECT THE AREAS AND CONDITIONS IDENTIFIED IN SUBSECTION 16-50J-76 (a) (7) OF THESE REGULATIONS, INCLUDING BUT NOT LIMITED TO:	
(A) CONSTRUCTION TECHNIQUES AT WATERCOURSES TO BE CROSSED BY CONSTRUCTION VEHICLES	WATERCOURSES WILL NOT BE CROSSED OR INTERFERED WITH DURING CONSTRUCTION.
(B) SEDIMENTATION AND EROSION CONTROL AND REHABILITATION PROCEDURES FOR AREAS OF HIGH EROSION POTENTIAL	REFER TO THE EROSION CONTROL PLAN FOR THE PROCESSES TO BE UTILIZED DURING CONSTRUCTION FOR SEDIMENTATION AND EROSION CONTROL & REHABILITATION PROCEDURES.
(C) PRECAUTIONS THAT WILL BE TAKEN TO PROTECT ENDANGERED SPECIES	SINCE NONE EXIST ON SITE, NO PRECAUTIONS ARE REQUIRED FOR PROTECTION.
(4) PLANS FOR THE METHOD OF APPLICATION AND TYPE OF HERBICIDE TO BE USED, IF ANY, AT THE TIME OF INITIAL CLEARING FOR THE PROPOSED SITE AND FOR MAINTENANCE.	HERBICIDES WILL NOT BE USED DURING CLEARING OR MAINTENANCE OF THE FACILITY.
(5) THE LOCATION OF PUBLIC RECREATION AREAS OR ACTIVITIES KNOWN TO EXIST OR BEING PROPOSED IN OR ADJACENT TO THE PROPOSED SITE.	PUBLIC ACTIVITIES OCCUR IN THE ADJACENT CHURCH. THE ACTIVITIES WILL NOT BE INTERFERED WITH DURING CONSTRUCTION.
(6) PLANS FOR THE ULTIMATE DISPOSAL OF EXCESS EXCAVATED MATERIAL.	EXCESS EXCAVATED MATERIAL WILL BE TRUCKED OFF SITE AND PROPERLY DISPOSED OF BY CONTRACTOR.
(7) SUCH SITE-SPECIFIC INFORMATION AS THE COUNCIL MAY REQUIRE.	
(A) SITE MUST UTILIZE A 120' MONOPOLE	INCLUDED IN PLANS
(B) TOP OF ANTENNAS NOT TO EXCEED 120'	INCLUDED IN PLANS



nationalgrid
Wireless

NATIONAL GRID WIRELESS
80 CENTRAL STREET
BOXBOROUGH, MA 01719

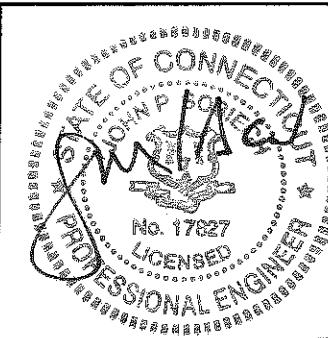
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CHA

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CHA PROJECT NO:
14980 - 1004 - 1601

NO.	SUBMITTAL
0	05/26/06 ISSUED FOR REVIEW BY: JAS CHK: PAL APP'D: JPS
1	06/02/06 ISSUED FOR CONSTRUCTION BY: JAS CHK: PAL APP'D: JPS
2	08/02/06 REVISED PER COMMENTS BY: CMM CHK: PAL APP'D: JPS



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SITE ID:
CT11618
SITE NAME:
SAINT JUDE'S CHURCH
SITE ADDRESS:
71 PLEASANT VIEW RD
DERBY, CT
06418
NEW HAVEN COUNTY

SHEET TITLE
EROSION CONTROL
& GRADING PLAN

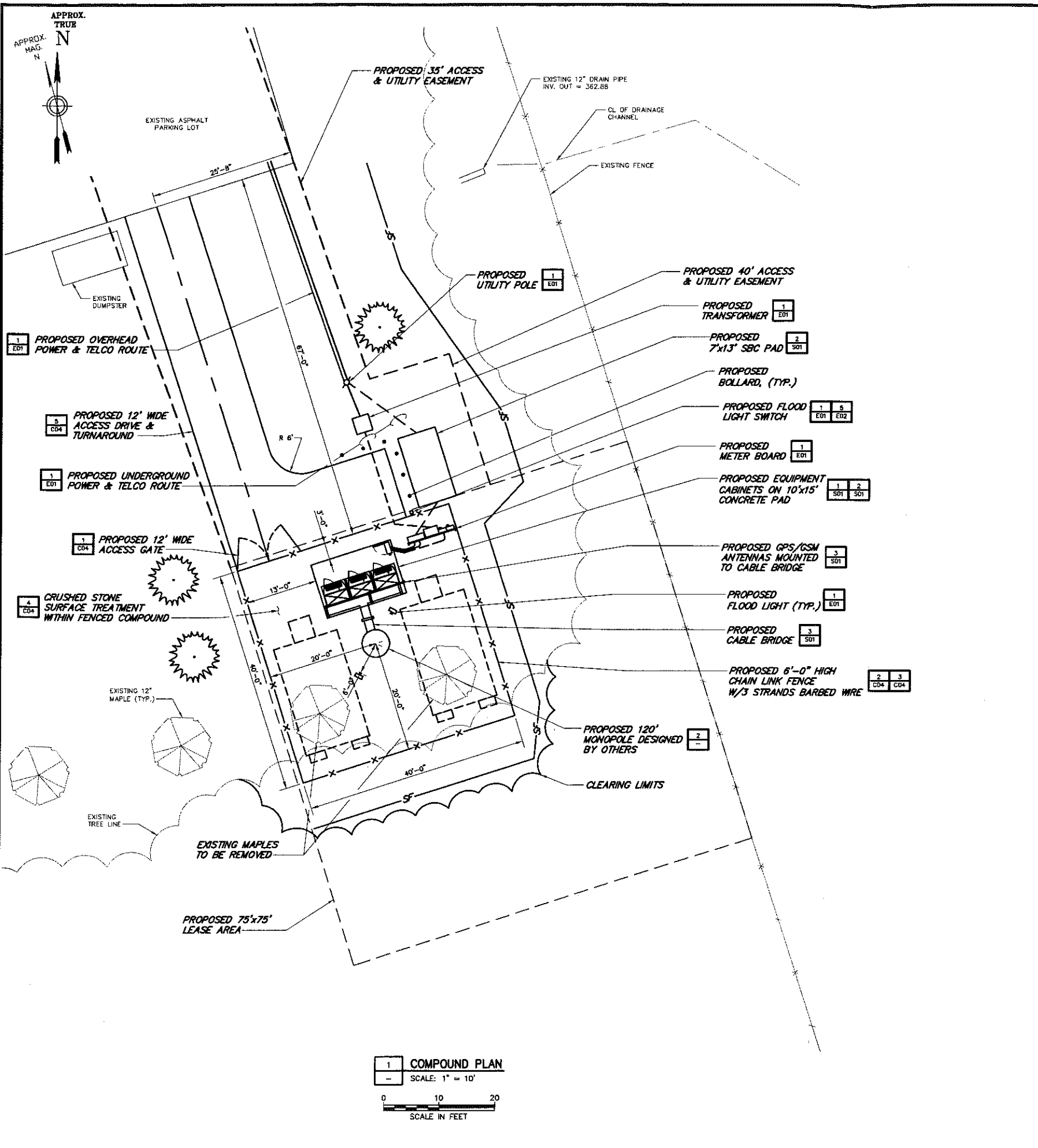
SHEET NUMBER
C02

EROSION CONTROL NOTES:

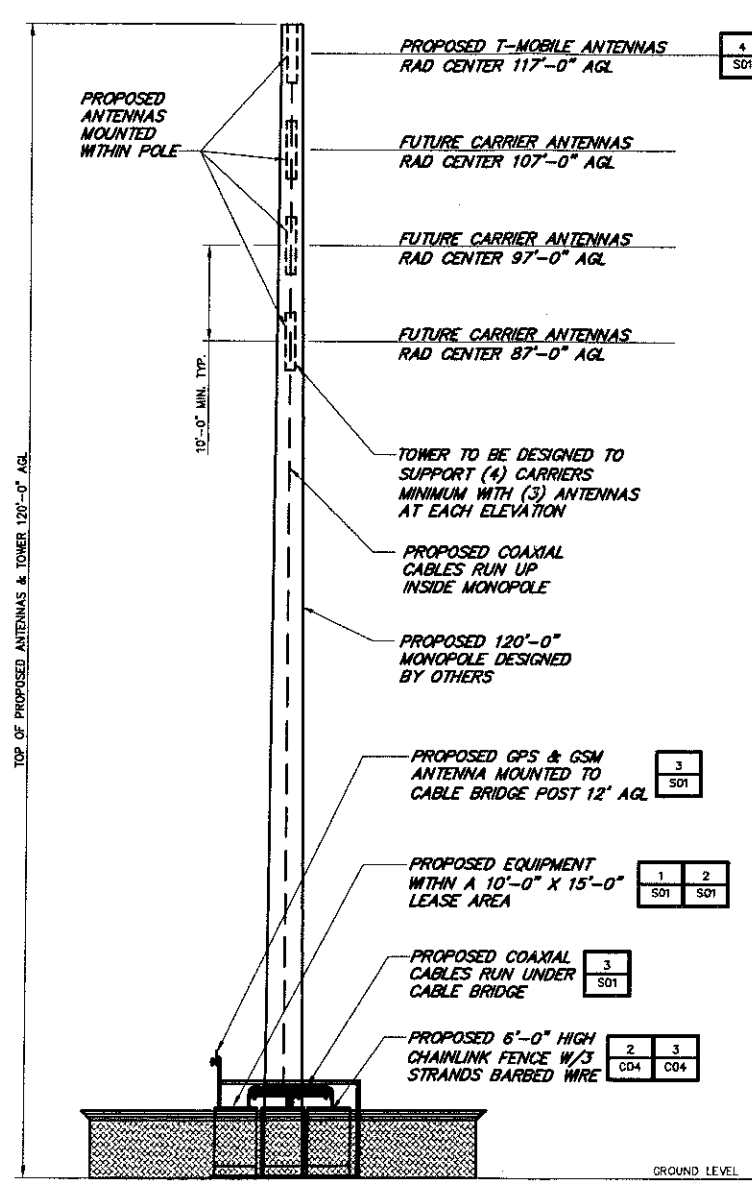
- ALL SILT FENCING AND HAYBALE SILTATION CONTROL TO BE INSTALLED PER PLAN AND MAINTAINED FOR THE DURATION OF THE CONSTRUCTION PERIOD.
- ALL EROSION CONTROL SHOULD BE MAINTAINED UNTIL ALL SEEDING HAS TAKEN HOLD AND SLOPES ARE PROPERLY STABILIZED.
- SEEDING IS TO TAKE PLACE IMMEDIATELY AFTER FINISH GRADING OF SLOPES IS COMPLETED.

1 EROSION CONTROL & GRADING PLAN
SCALE: 1" = 10'
0 10 20
SCALE IN FEET

File: M:\NATIONAL GRID WIRELESS\HARDWARE\SITES\004 DEBBY-CT\CD\CT11618-C03.DWG
 Date: 8/10/2006 12:32:54 PM
 User: Rkw, Kim
 Plotted: 8/10/2006 2:34:51 PM
 Scale: 8/10/2006 12:32:54 PM
 User: Rkw, Kim



1 COMPOUND PLAN
 SCALE: 1" = 10'
 0 10 20
 SCALE IN FEET



2 TOWER ELEVATION
 SCALE: 1" = 10'
 0 10 20
 SCALE IN FEET

nationalgrid
 Wireless
 NATIONAL GRID WIRELESS
 80 CENTRAL STREET
 BOXBOROUGH, MA 01719

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2	08/02/06 BY: CMM CHK: PAL APP'D: JPS		

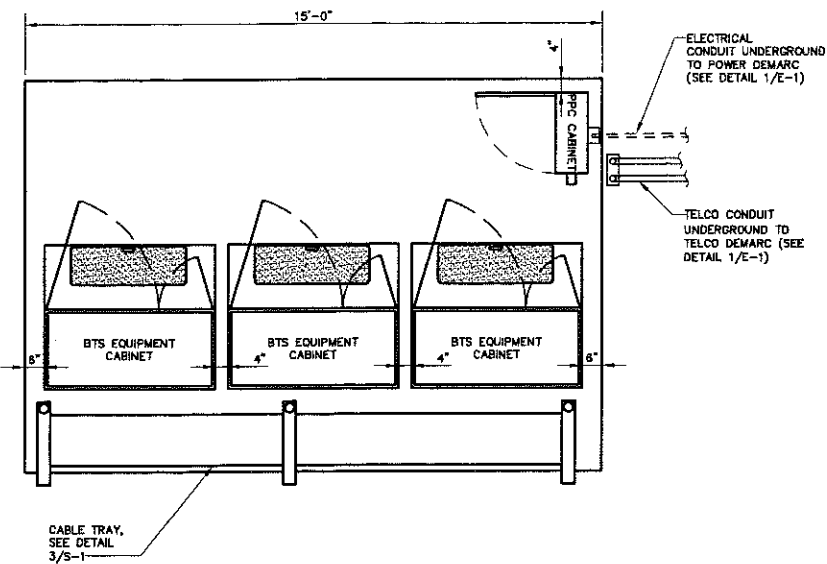
STATE OF CONNECTICUT
 JOHN P. SOBIECHOWSKI
 No. 17927
 LICENSED PROFESSIONAL ENGINEER

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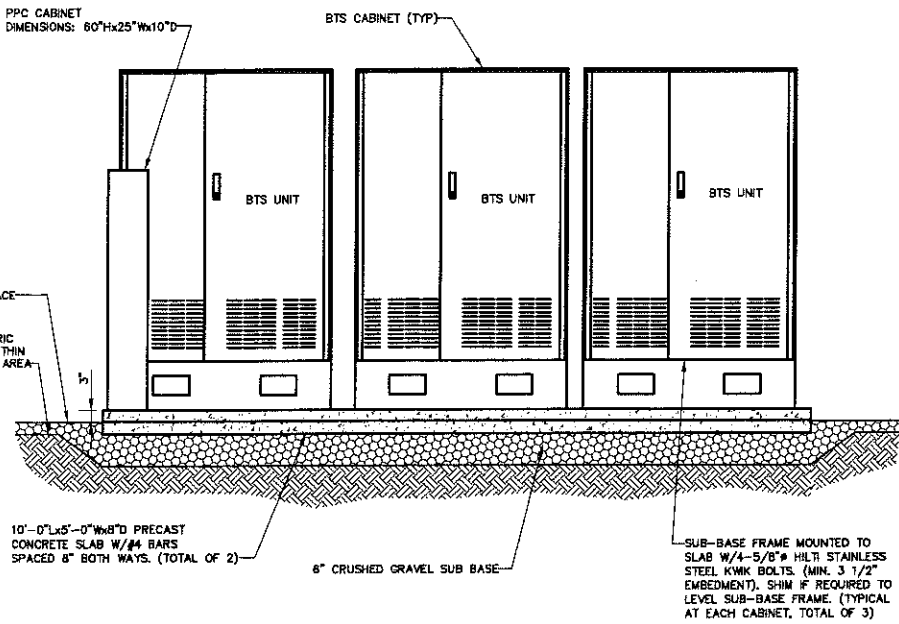
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CT11618
 SITE NAME:
SAINT JUDE'S CHURCH
 SITE ADDRESS:
**71 PLEASANT VIEW RD
 DERBY, CT
 06418
 NEW HAVEN COUNTY**

SHEET TITLE
**COMPOUND PLAN
 & TOWER ELEVATION**

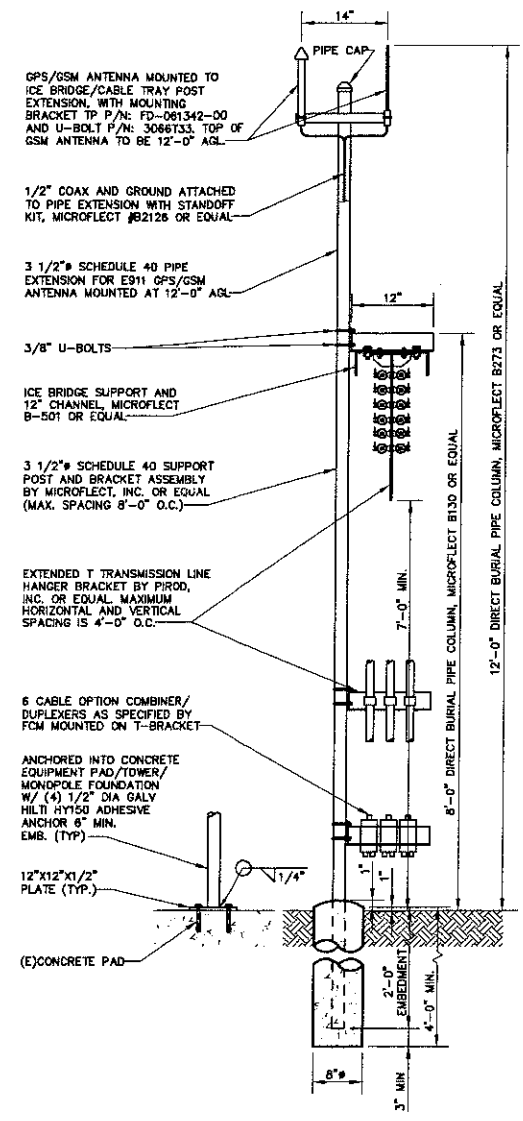
SHEET NUMBER
C03



1 EQUIPMENT SLAB LAYOUT
NO SCALE



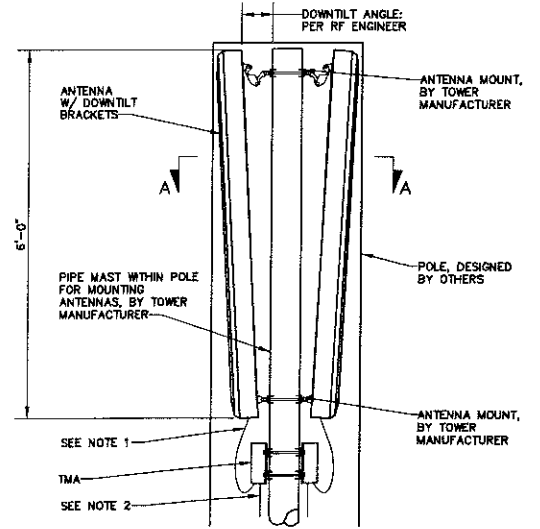
2 EQUIPMENT SLAB ELEVATION
NO SCALE



3 PROFILE AT CABLE BRIDGE
NO SCALE

STRUCTURAL NOTES:

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, ANSI/ASCE7, EA/71A-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA SUPPORTING STRUCTURES.
- 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.
- 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".
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 STRUCTURAL STEEL UNLESS OTHERWISE NOTED.
- 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.
- 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 FLAT HARDENED WASHERS". ALL BOLTS SHALL BE 5/8" DIA UNLESS OTHERWISE NOTED.
- 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.
- 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.
- 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 85 PERCENT ZINC BY WEIGHT, ZIPP 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.
- 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 DLL WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AWS "MANUAL OF STEEL CONSTRUCTION", 9TH EDITION.
- 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.
- 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.
- 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-20 OR HY-150 SYSTEMS (AS SPECIFIED ON DWG.) OR ENGINEERS APPROVED EQUAL WITH 4-1/4" MIN. EMBEDMENT DEPTH, UNLESS NOTED OTHERWISE.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FT-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWK 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.
- GRAVEL SUB BASE AND CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- CONCRETE FOR FENCE AND ICE BRIDGE SUPPORT SHALL BE 3000 PSI AIR ENTRAINED (4%-6%) NORMAL WEIGHT CONCRETE.
- ALL CAST IN PLACE CONCRETE SHALL BE MIXED AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318 AND ACI 301.
- 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
ALL EXPOSED EDGES SHALL BE PROVIDED WITH A 3/4"x3/4" CHAMFER UNLESS OTHERWISE NOTED.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF WOOD 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.



SECTION A-A

- NOTES:
- SECURE CABLES WITH TIE WRAPS AT 3'-0" O.C.
 - PROVIDE YELLOW GRIP AROUND CABLES AND FASTEN TO EXISTING J-HOOKS INSIDE POLE.

4 ANTENNA MOUNTING DETAIL
NO SCALE

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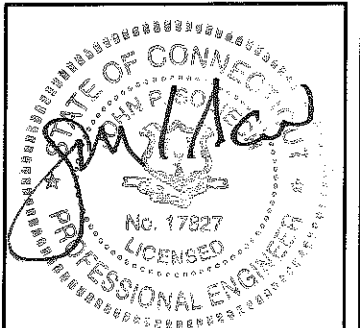
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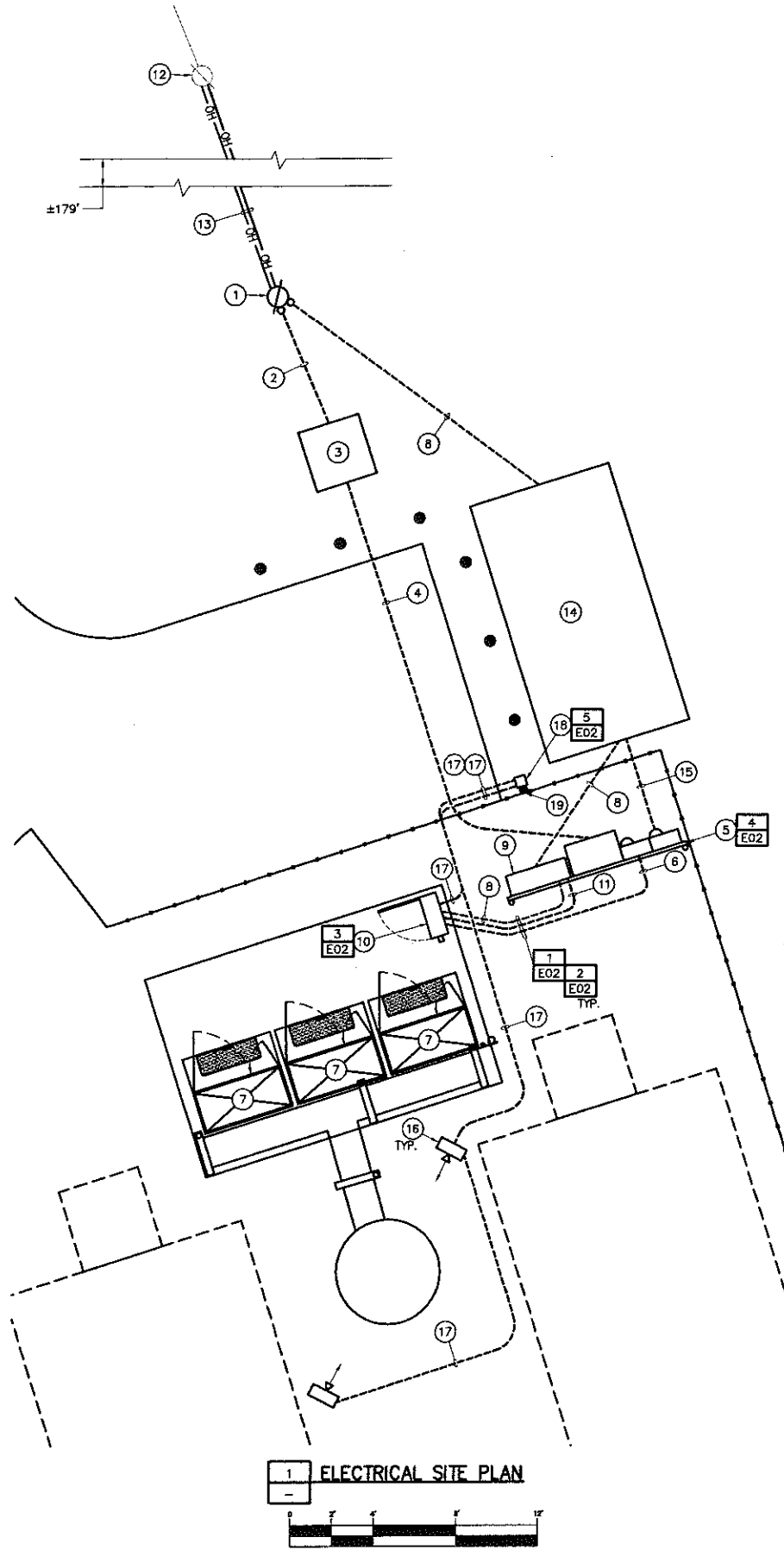
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SITE ADDRESS:
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DERBY, CT
06418
NEW HAVEN COUNTY

SHEET TITLE
STRUCTURAL
DETAILS

SHEET NUMBER
S01



DRAWINGS WERE COMPLETED BEFORE THE UTILITY COMPANIES COULD CONFIRM THE SOURCE OF ELECTRICAL/TELEPHONE SERVICES. DESIGN IS BASED UPON SITE OBSERVATIONS ONLY.



1 ELECTRICAL SITE PLAN
 (IN FEET)

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH LOCAL UTILITIES FOR SOURCING AND REQUIREMENTS.
2. ROUTING OF ALL UNDERGROUND UTILITIES SHALL BE APPROVED BY THE OWNER PRIOR TO START OF WORK.
3. INSTALL PULL BOXES AS REQUIRED PER NEC AND UTILITY COMPANY.

CODED DRAWING NOTES

- 1 NEW POLE BY UTILITY. PROVIDE SERVICE LATERALS AS INDICATED. (2) #2 AWG. ALUMINUM 15KV RATED CABLE OR (1) #2 AWG. ALUMINUM RATED CABLE w/CONCENTRIC NEUTRAL. APPROVED FOR DIRECT BURIED BY THE UTILITY. COORDINATE THE EXACT REQUIREMENTS WITH UTILITY COMPANY.
- UTILITY TRANSFORMER. PAD, INSTALLATION, GROUNDING AND SECONDARY TERMINATIONS BY THIS CONTRACT PER UTILITY SPECIFICATIONS AND NEC.
- 4 SETS OF 4" C. w/(3) 600 KCM EACH.
- NEW 1800A, 1P METERBANK w/(1) 200A COMBINATION METER SOCKET/CB FOR T-MOBILE, (1) 200A COMBINATION METER SOCKET/CB FOR SBC AND (6) 200A COMBINATION METER SOCKET/CBS FOR FUTURE CARRIERS. METER BY UTILITY. GROUND PER NEC AND UTILITY REQUIREMENTS.
- 2" C. w/(3) #3/0 + #6G.
- EQUIPMENT FURNISHED BY T-MOBILE. INSTALLED BY THIS CONTRACT.
- 4" C. w/PULL ROPE. STUB UP AND CAP AT PAD.
- NEMA 3R HOFFMAN ENCLOSURE PER UTILITY SPECIFICATIONS.
- PPC FURNISHED BY T-MOBILE. INSTALLED BY THIS CONTRACT.
- 1/2" C. w/(2) #12 + #12G.
- EXISTING UTILITY POLE SMET #1251.
- OVERHEAD CONDUCTORS BY UTILITY.
- PROPOSED SBC PAD.
- 2" C. w/PULL ROPE. STUB UP AND CAP AT PAD.
- FLOODLIGHT LITHONIA HYDREL #7200400MTBSP OR EQUAL WITH APPROPRIATE STANCHION MOUNTING KIT AND BLACK COLOR. POSITION FLOODLIGHT TO LIGHT FLAG IN DIRECTION OF ARROW AND TO MINIMIZE SPILL LIGHT. PROVIDE APPROPRIATE CONCRETE BASE FOR EACH LIGHT.
- 1" C. w/(2) #12 + #12G.
- SINGLE POLE LIGHT SWITCH, MOUNTED INSIDE NEMA 3R LOCK BOX.
- 4"x4" PRESSURE TREATED POST.

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
	GROUND
	MASTER GROUND BAR
	EQUIPMENT GROUND BAR
	GROUND COPPER WIRE, SIZE AS NOTED
	EXPOSED WIRING
	COAXIAL CABLE
	5/8"x8" COPPER CLAD 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

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL LAWS.
2. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER SPECIFICATION REQUIREMENTS.
3. THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATIONS INCLUDING INCIDENTAL WORK TO PROVIDE A COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM.
4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF INSPECTIONS.
5. ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING AND EXPOSED TO WEATHER SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL CONDUITS OR SCHEDULE 80 PVC (AS PERMITTED BY CODE) AND, WHERE REQUIRED, IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
6. BURIED CONDUIT SHALL BE SCHEDULE 40 PVC.
7. ELECTRICAL WIRING SHALL BE COPPER WITH TYPE XHHW, THWN, OR THHN/INSULATION.
8. 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.
9. RUN TELCO CONDUIT OR CABLE BETWEEN TELEPHONE UTILITY DEMARCATION POINT AND PROJECT OWNER CELL SITE TELCO SERVICE CABINET AS INDICATED ON THIS DRAWING. PROVIDE FULL LENGTH PULL ROPE INSTALLED IN TELCO CONDUIT. PROVIDE GREENLEE CONDUIT MEASURING TAPE AT EACH END.
10. 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 GROUND PORTIONS OF THESE CONDUITS SHALL BE PVC CONDUIT.
11. ALL EQUIPMENT LOCATED OUTSIDE SHALL HAVE A NEMA 3R ENCLOSURE.
12. PPC PROVIDED BY PROJECT OWNER.
13. GROUNDING SHALL COMPLY WITH NEC ARTICLE 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTNING PROTECTION SHALL BE DONE IN ACCORDANCE WITH T-MOBILE BTS SITE GROUNDING STANDARDS.
14. GROUND COAXIAL CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURER'S COAX CABLE GROUNDING KITS SUPPLIED BY PROJECT OWNER.
15. USE #6 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 THIS DRAWING.
16. ALL GROUND CONNECTIONS TO BE BURNDY HYDROGROUND COMPRESSION TYPE CONNECTORS OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
17. ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLES. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT 6" RADIUS WHEN NECESSARY. BOND ANY METAL OBJECTS WITHIN 5 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR.
18. CONNECTION TO GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
19. APPLY OXIDE INHIBITING COMPOUND TO ALL COMPRESSION TYPE GROUND CONNECTIONS.
20. 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.
21. CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMS MINIMUM RESISTANCE REQUIRED.
22. 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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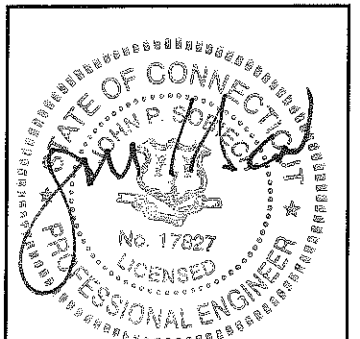
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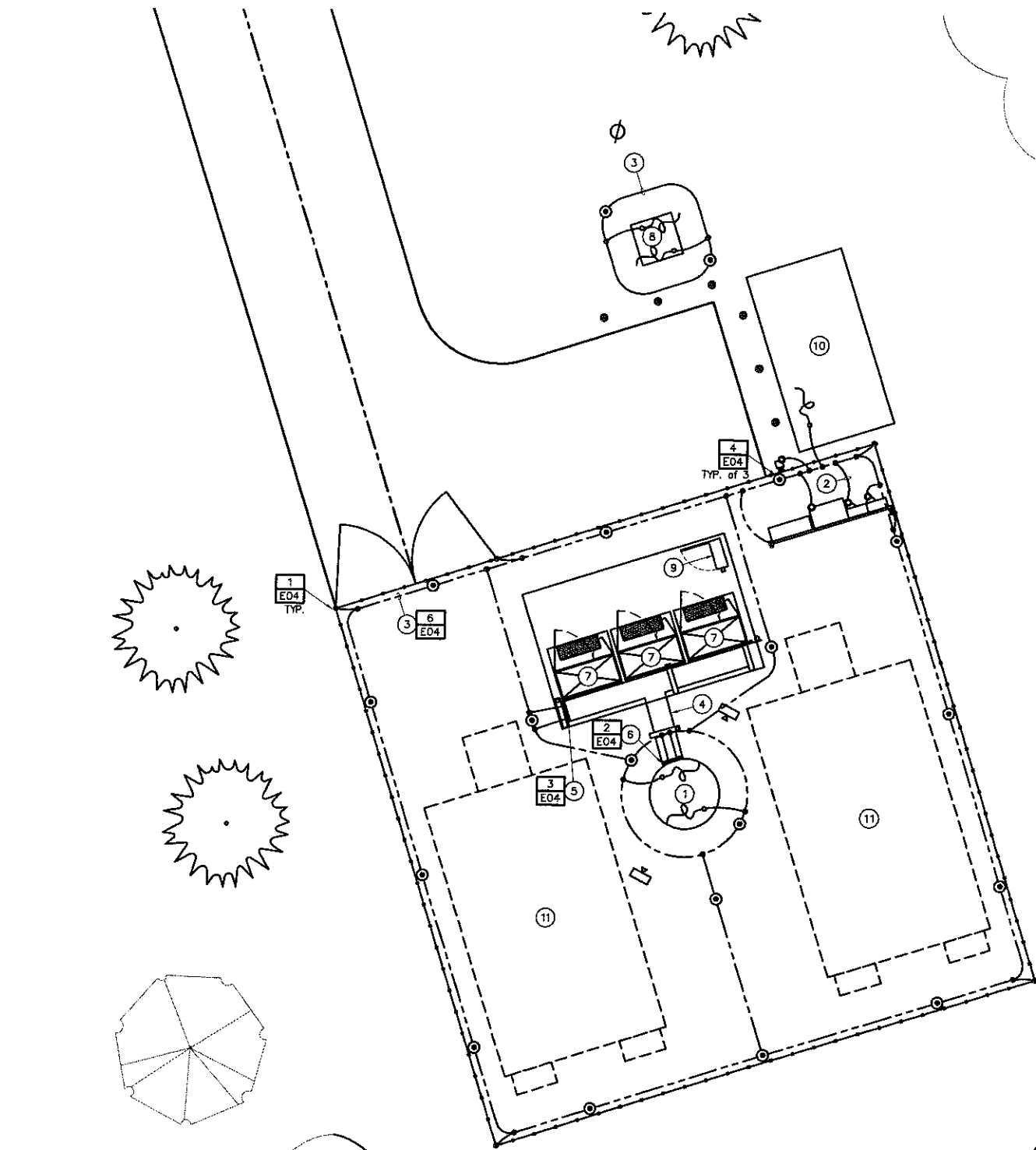
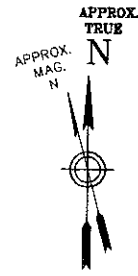


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 SITE ADDRESS:
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 DERBY, CT
 06418
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SHEET TITLE
 ELECTRICAL SITE PLAN

SHEET NUMBER
 E01



1 GROUNDING PLAN



CODED DRAWING NOTES

- ① PROPOSED MONOPOLE.
- ② #2 SOLID TINNED BCW. TERMINATE AT METER, AND SUPPORT FRAME PER UTILITY COMPANY SPECIFICATIONS, PER NEC REQUIREMENTS AND AS INDICATED.
- ③ #2 SOLID TINNED BCW BURIED EXTERIOR GROUND RING.
- ④ ICE BRIDGE BOND EACH SECTION.
- ⑤ MIBL.
- ⑥ TOWER CIGBE.
- ⑦ EQUIPMENT FURNISHED BY T-MOBILE. INSTALLED BY THIS CONTRACT.
- ⑧ UTILITY TRANSFORMER. GROUNDING BY THIS CONTRACT PER UTILITY SPECIFICATIONS AND NEC.
- ⑨ PPC FURNISHED BY T-MOBILE. INSTALLED BY THIS CONTRACT.
- ⑩ PROPOSED SBC PAD.
- ⑪ FUTURE SHELTER SPACE.

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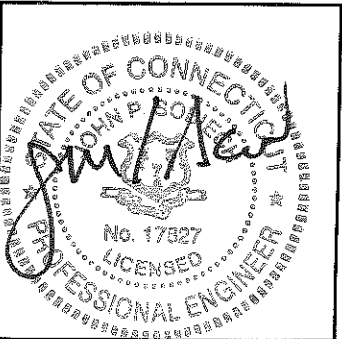
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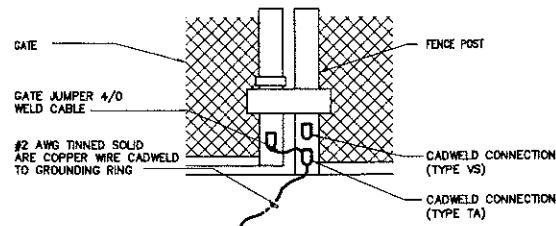


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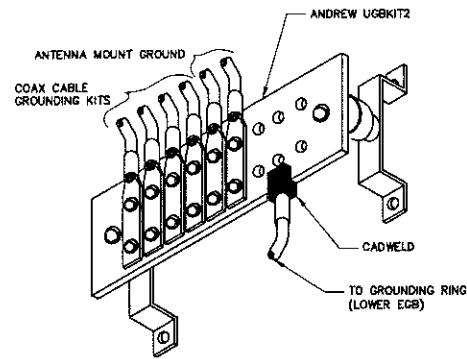
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SHEET TITLE
GROUNDING PLAN

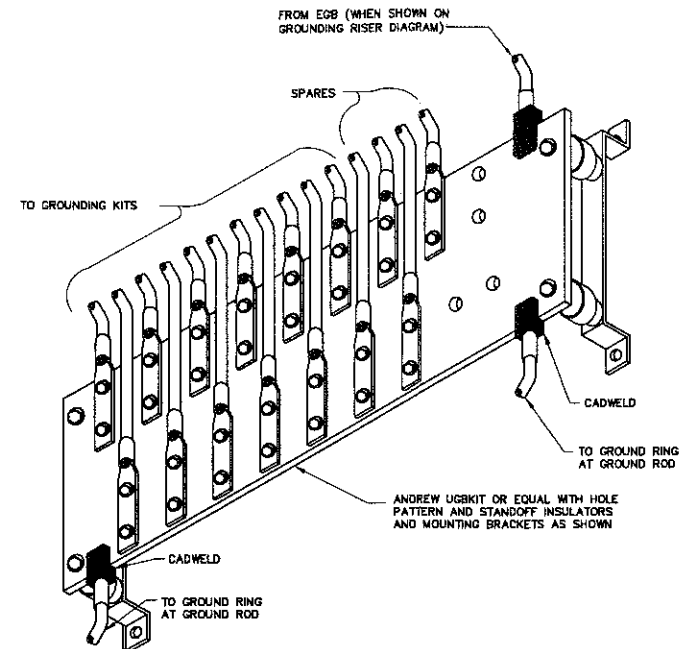
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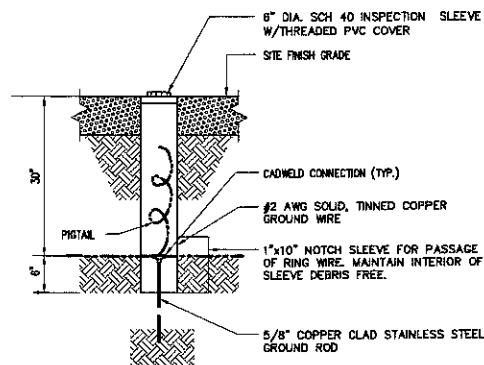
1 SWINGING GATE GROUNDING DETAIL
- NO SCALE



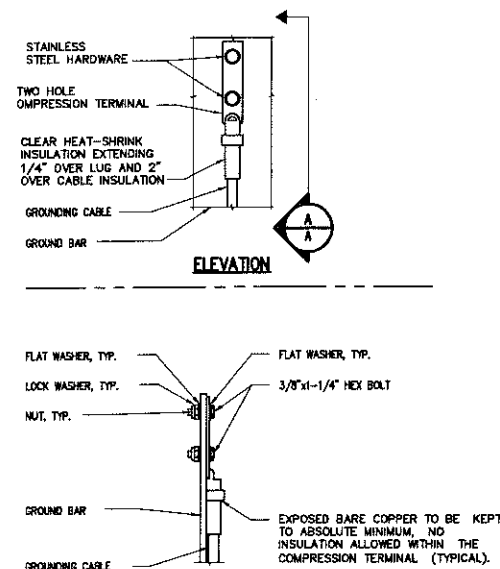
2 EQUIPMENT GROUND BAR (EGB)
- NO SCALE



3 MASTER GROUND BAR (MGB)
- NO SCALE

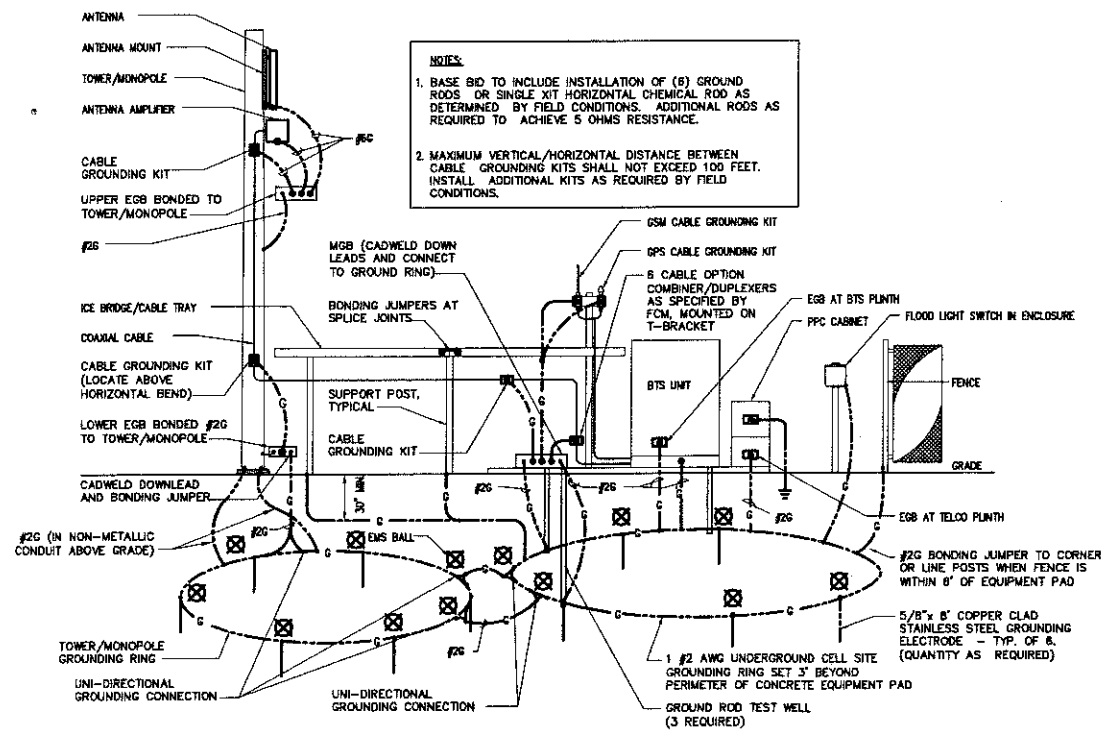


4 GROUND ROD TESTWELL DETAIL
- NO SCALE



- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 - CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB.

5 TYPICAL GROUND BAR CONNECTIONS DETAIL
- NO SCALE



- NOTES:
- BASE BID TO INCLUDE INSTALLATION OF (6) GROUND RODS OR SINGLE KIT HORIZONTAL CHEMICAL ROD AS DETERMINED BY FIELD CONDITIONS. ADDITIONAL RODS AS REQUIRED TO ACHIEVE 5 OHMS RESISTANCE.
 - MAXIMUM VERTICAL/HORIZONTAL DISTANCE BETWEEN CABLE GROUNDING KITS SHALL NOT EXCEED 100 FEET. INSTALL ADDITIONAL KITS AS REQUIRED BY FIELD CONDITIONS.

6 GROUNDING RISER DIAGRAM
- NO SCALE

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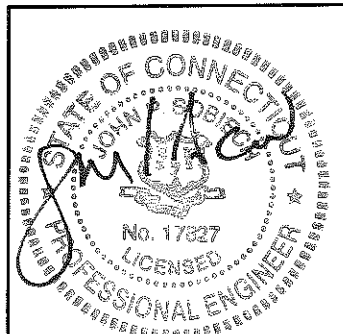
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