

June 5, 2013

BY EMAIL & FEDEX

Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

ORIGINAL

RECEIVED
JUN - 6 2013
CONNECTICUT
SITING COUNCIL

Re: Message Center Management, Inc.
Application for Certificate of Environmental Compatibility and Public Need
Docket # 425
4 Dittmar Road, Redding, Connecticut

Dear Acting Executive Director Bachman:

On behalf of Message Center Management, Inc. ("MCM"), please accept for review the enclosed modification of the Development and Management Plan ("D&M Plan") approved in Docket No. 425.

The modifications in the enclosed drawings include the removal of the Sprint/Nextel cell on wheels ("COW"). That carrier has advised MCM that it will not deploy a COW during construction. AT&T's COW will now be a 120' design shifted approximately 20' east of the previously approved location. Notably this area is at minimum 12' lower in elevation than the location of the approved tower. Accordingly, the top of AT&T's COW will be at a height well below the overall height of the approved tower.

Thank you for your consideration of the enclosed.

Very truly yours,

Daniel M. Laub

Enclosures

cc: Brad Mondschein, Esq., Town of Redding
Natalie Ketcham, Town of Redding
Julie D. Kohler, Esq.
Robert. S. Paradise
Maria Scotti, MCM
Virginia King, MCM
Scott Chasse, P.E., APT
Hans Fiedler, T-Mobile
Christopher B. Fisher, Esq.

CERTIFICATE OF SERVICE

I hereby certify that on this day, an original and 15 copies of the foregoing and enclosed was sent electronically and by first class mail to the Connecticut Siting Council with a copy by email and first class mail to:

T-Mobile Northeast LLC
Julie D. Kohler, Esq.
Cohen and Wolf, P.C.
1115 Broad Street
Bridgeport, CT
jkohler@cohenandwolf.com

Town of Redding
Brad N. Mondschein, Esq.
Pullman & Comley, LLC
90 State House Square
Hartford, CT 06103
bmondschein@pullcom.com

Natalie Ketcham, First Selectman
Town of Redding
Town Hall, P.O. Box 1028
Redding, Connecticut 06875-1028

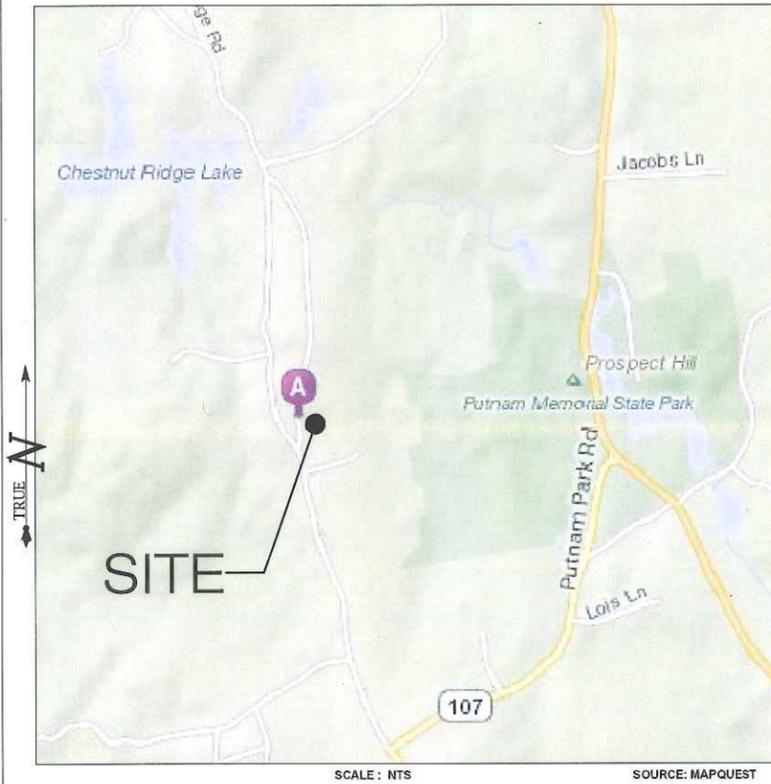
Owner:
Robert S. Paradise
4 Dittmar Road
W. Redding, CT 06896-1509

Dated: June 5, 2013



Daniel M. Laub, Esq.

LOCATION MAP



T-Mobile

**35 GRIFFIN ROAD
BLOOMFIELD, CT 06002**

**OFFICE: (860)-692-7100
FAX: (860)-692-7159**



**MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CT 06105
OFFICE: (888) 973-7483**

**ALL-POINTS
TECHNOLOGY CORPORATION**
3 SADDLEBROOK DRIVE PHONE: (860)-663-1697
KILLINGWORTH, CT 06419 FAX: (860)-663-0935
WWW.ALLPOINTSTECH.COM

CONTACT PERSONNEL

APPLICANT:
MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CT 06105

INTERVENER:
T-MOBILE NORTHEAST LLC
35 GRIFFIN ROAD
BLOOMFIELD, CT 06002

LANDLORD:
MESSAGE CENTER MANAGEMENT
40 WOODLAND STREET
HARTFORD, CT 06105

MCM PROJECT MANAGER:
VIRGINIA KING (860) 727-5790

MCM PROJECT ATTORNEY:
CHRISTOPHER B. FISHER, ESQ.
CUDDY & FEDER, LLP
445 HAMILTON AVE, 14TH FLOOR
WHITE PLAINS, NY 10601
914-761-1300

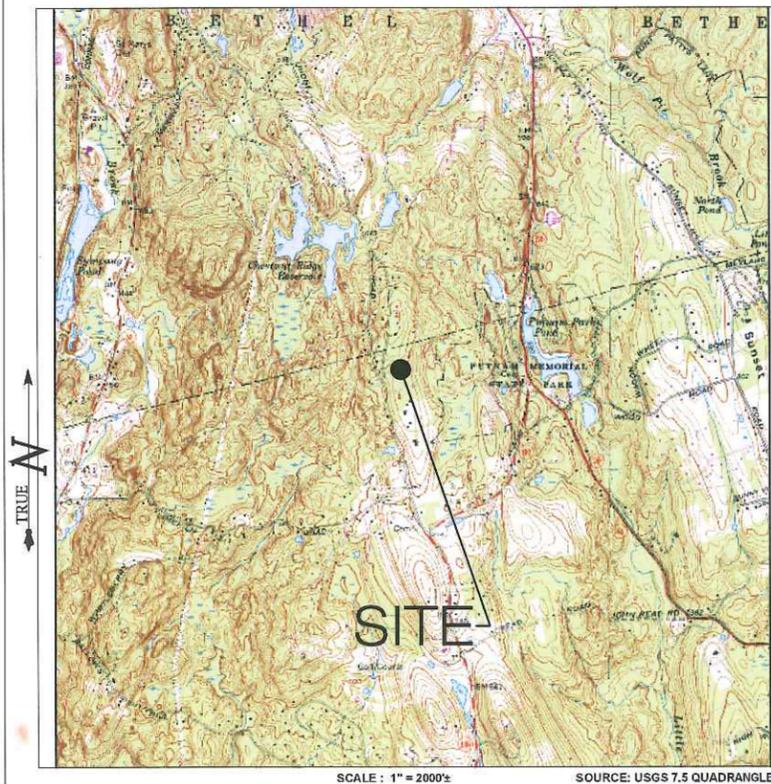
POWER PROVIDER:
CL&P (203) 845-3487
MATTHEW RICHARDS - CASE #1638732

TELCO PROVIDER:
AT&T: (800)-727-8368

CALL BEFORE YOU DIG:
(800) 922-4455

GOVERNING CODES:
2005 CONNECTICUT BUILDING CODE (2003 IBC BASIS)
NATIONAL ELECTRIC CODE
EIA/TIA 222F

USGS TOPOGRAPHIC MAP



**DEVELOPMENT & MANAGEMENT PLAN
DRAWING INDEX**

- | | |
|---|--|
| T-1 TITLE SHEET & INDEX | C-1 T-MOBILE EQUIPMENT PLAN & DETAILS |
| R-1 ABUTTERS MAP & CONSTRUCTION SEQUENCE | C-1A T-MOBILE EQUIPMENT DETAILS |
| SP-1 SITE PLAN | C-2 SPRINT/NEXTEL EQUIPMENT DETAILS |
| SP-2 DECOMMISSION & COW PLAN | C-3 AT&T EQUIPMENT DETAILS |
| SP-3 GRADING & SED/EROSION CONTROL PLAN | C-4 TEMPORARY CELL ON WHEELS DEPLOYMENT |
| LS-1 LANDSCAPING PLAN | S-1 COMPOUND DETAILS |
| A-1 COMPOUND PLAN & TOWER ELEVATION | N-1 NOTES & SPECIFICATIONS |

SITE INFORMATION

**CTFF632A
MCM DITTMAR ROAD
4 DITTMAR ROAD
REDDING, CT 06896**

***SITE INFORMATION:**

-SITE NAME: MCM DITTMAR ROAD
-SITE ID NUMBER: CTFF632A
-SITE ADDRESS: 4 DITTMAR ROAD
REDDING, CT 06896

-MAP ID: 1-10
-MAP: 32
-BLOCK: 47
-LOT: 15

-ZONE: R-2
-LATITUDE: 41° 20' 23.42" N
-LONGITUDE: 73° 23' 30.62" W
-ELEVATION: 806± AMSL
-FEMA/FIRM DESIGNATION: PANEL #09001C0234F - ZONE 'X'
-ACREAGE: 5.58 Ac

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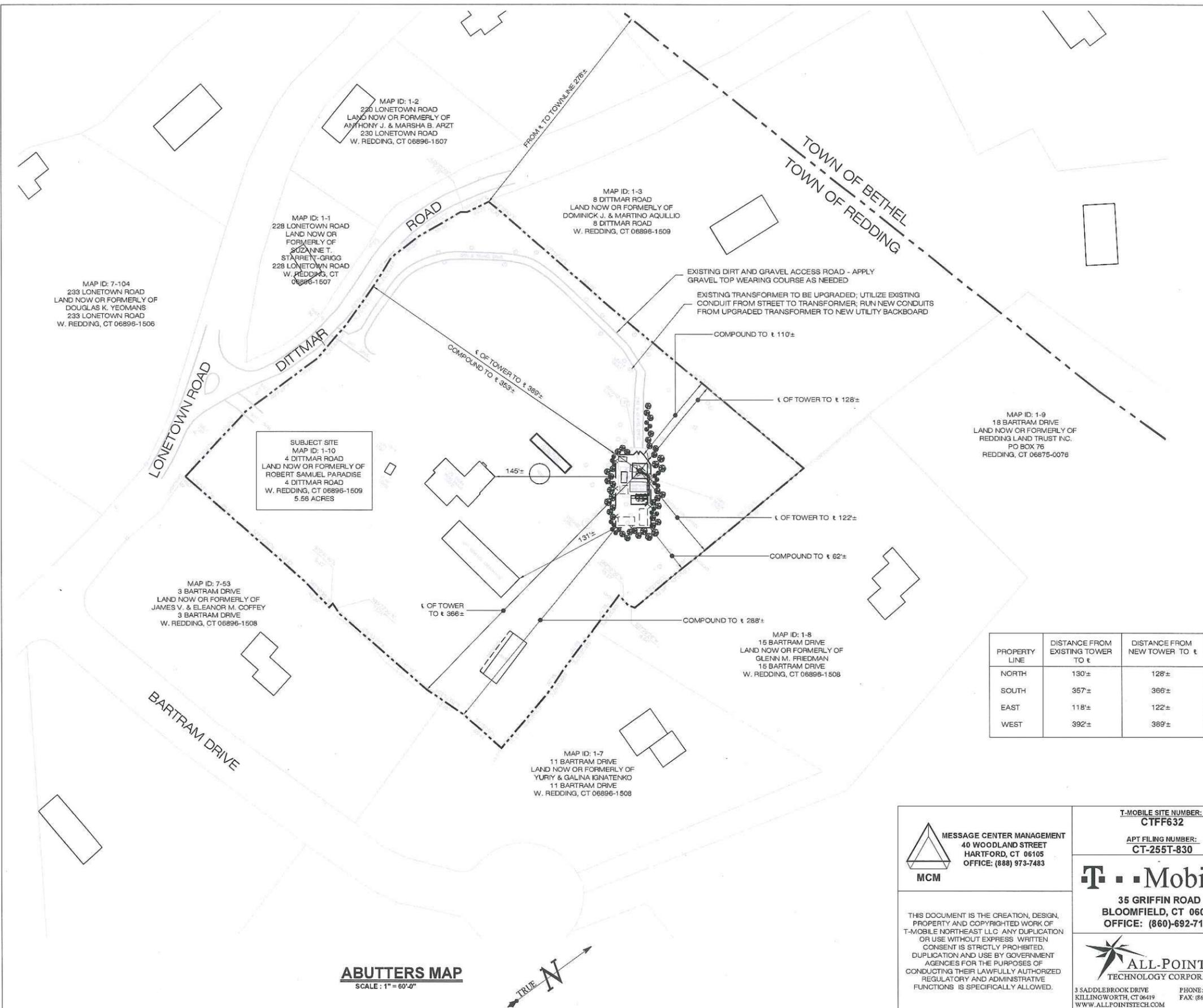
DEVELOPMENT & MANAGEMENT PLAN		TITLE SHEET AND INDEX	
MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896		APT FILING NUMBER: CT-255T-830	
DESIGN TYPE: RAW LAND		APT DRAWING NUMBER: CTFF632 T-1.DWG	
DRAWN BY: SMC		SCALE: AS NOTED	
CHECKED BY: SMC		DATE: 03/15/11	
REVISIONS:			
REV.1: 11/12/12: FOR REVIEW: SMC		SHEET NUMBER:	
REV.2: 11/16/12: FOR FILING: SMC		T-1	
REV.3: 12/11/12: TOWN'S COMMENTS: SMC			
REV.4: 12/17/12: CSC INTERROGATORIES: SMC			
REV.5: 05-29-13: COW CHANGE: SMC			
REV.6:			

CONSTRUCTION SEQUENCING

CONTRACTOR TO FOLLOW THE FOLLOWING CONSTRUCTION PHASING AS CLOSELY AS POSSIBLE:

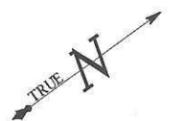
1. MOBILIZATION: BRING MATERIAL AND EQUIPMENT TO SITE. ALL CONSTRUCTION TRAFFIC AND ACTIVITIES MUST RESIDE INSIDE ACCESS PATH DELINEATED, WITHIN STAGING AND STOCKPILE AREA, OR WITHIN AREA WHERE NEW WORK IS BEING COMPLETED.
2. INSTALL TEMPORARY EROSION AND SEDIMENTATION CONTROL BARRIERS.
3. CLEAR & LEVEL AREAS FOR AT&T AND SPRINT/NEXTEL 'CELL ON WHEELS' (COWs)
4. RUN TEMPORARY POWER AND TELCO TO AT&T AND SPRINT/NEXTEL 'CELL ON WHEELS' (COWs)
5. ERECT, INSTALL AND ENERGIZE AT&T AND SPRINT/NEXTEL 'CELL ON WHEELS' (COWs)
6. DECOMMISSION EXISTING GUYED TOWER, GUYS, DEADMEN AND TOWER BASE
7. REMOVE EXISTING TREES AS INDICATED ON THE PLANS
8. DISCONNECT AND TEMPORARILY RELOCATE EXISTING AT&T AND SPRINT/NEXTEL TELECOM EQUIPMENT AND EQUIPMENT SHELTER
9. REMOVED EXISTING FENCING AS REQUIRED
10. EXCAVATE FOR TOWER FOUNDATION
11. PREPARE SUBGRADE AND INSTALL ROCK ANCHORS AND PERFORM PULL TEST
12. SET FORMS, STEEL REINFORCING, AND CONCRETE FOR TOWER FOUNDATION
13. INSTALL BURIED TOWER GROUND RINGS, GROUND RODS AND GROUND LEADS
14. BACKFILL TOWER FOUNDATION
15. ERECT MONOPINE.
16. INSTALL TELECOMMUNICATIONS EQUIPMENT ON TOWER
17. INSTALL NEW ELECTRICAL TRANSFORMER & METER BANK ASSEMBLY AND CONSTRUCT NEW UTILITY TRENCHING AS REQUIRED
18. CLEAR AND ROUGH GRADE THE EXISTING & NEW EXPANDED EQUIPMENT COMPOUND
19. EXCAVATE, FORM, INSTALL REBAR AND POUR REPLACEMENT CONCRETE FOUNDATIONS FOR SPRINT/NEXTEL SHELTER, AT&T EQUIPMENT SLAB AND T-MOBILE'S NEW EQUIPMENT SLAB
20. INSTALL BURIED EQUIPMENT & COMPOUND GROUND RINGS, GROUND RODS, GROUND LEADS AND UTILITY CONDUITS
21. BACKFILL EQUIPMENT FOUNDATIONS
22. RE-INSTALL RELOCATED AT&T AND SPRINT/NEXTEL EQUIPMENT AND T-MOBILE'S NEW EQUIPMENT AND ALL NEW ICE-BRIDGES
23. INSTALL COMPOUND GRAVEL SURFACES.
24. INSTALL FENCING.
25. CONNECT GROUNDING LEADS AND LIGHTENING PROTECTION.
26. COORDINATE POWER/TELCO CUTOVER FROM COWs TO NEW EQUIPMENT FACILITIES
27. FINAL GRADE AROUND COMPOUND.
28. LANDSCAPE, LOAM AND SEED DISTURBED AREAS OUTSIDE COMPOUND, AS REQUIRED.
29. INSTALL DEER FENCING AROUND NEW LANDSCAPING
30. REMOVE SILT FENCING AFTER SEEDED AREAS HAVE ESTABLISHED VEGETATION.
31. FINAL CLEANUP AND EQUIPMENT TESTING.

THE ESTIMATED TIME FOR COMPLETION OF THE WORK IS APPROXIMATELY EIGHT (8) WEEKS. THE EXACT PROCESS MAY VARY DEPENDING ON THE CONTRACTORS' AND SUBCONTRACTORS' AVAILABILITY TO COMPLETE WORK AND WEATHER DELAYS.

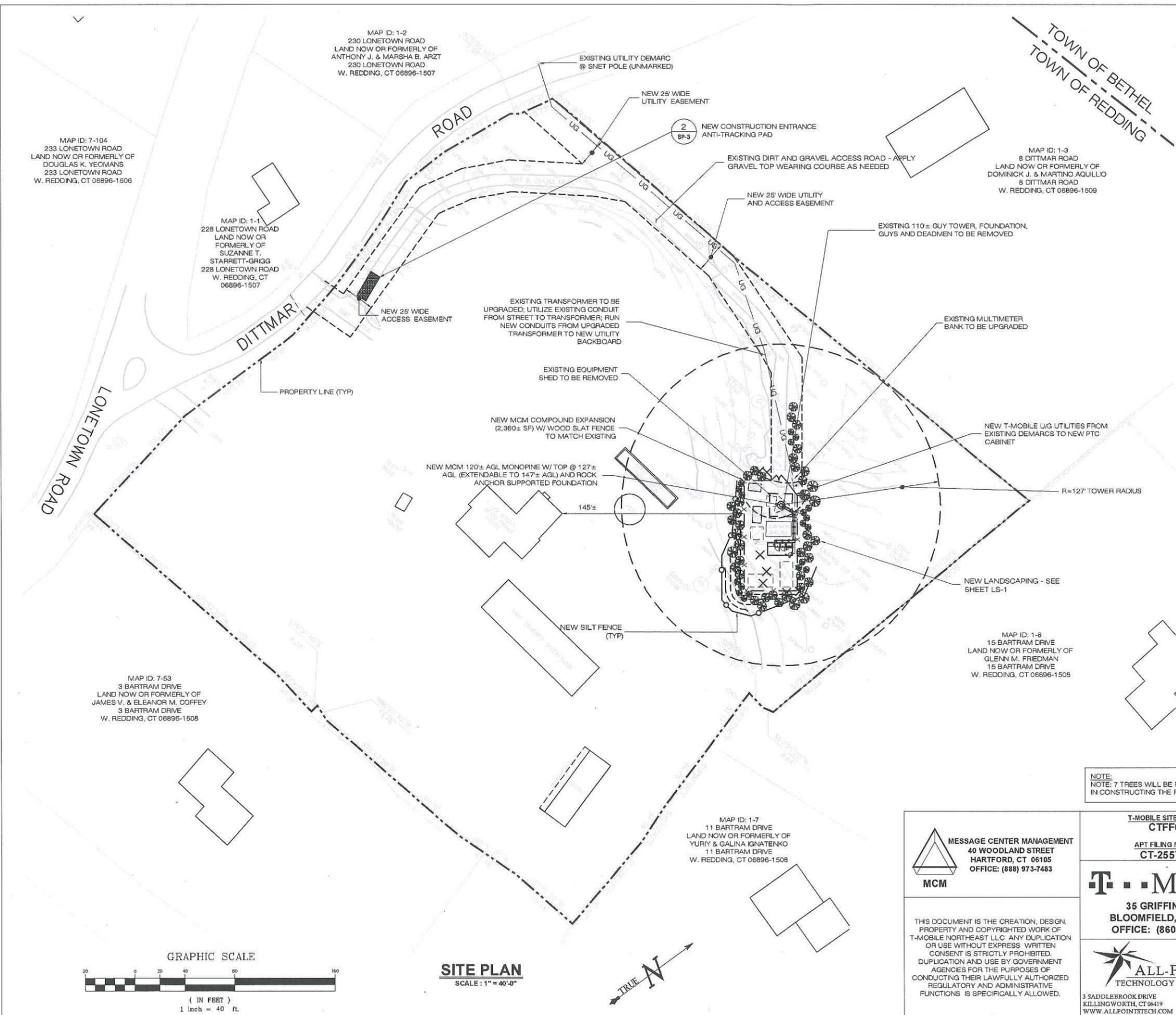


PROPERTY LINE	DISTANCE FROM EXISTING TOWER TO ±	DISTANCE FROM NEW TOWER TO ±
NORTH	130±	128±
SOUTH	357±	366±
EAST	118±	122±
WEST	392±	389±

ABUTTERS MAP
SCALE: 1" = 60'-0"



 MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483	T-MOBILE SITE NUMBER: CTFF632	DEVELOPMENT & MANAGEMENT PLAN MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896		ABUTTERS MAP APT FILING NUMBER: CT-255T-830 APT DRAWING NUMBER: CTFF632 DRAWN BY: SMC CHECKED BY: SMC SCALE: AS NOTED DATE: 03/15/11
	THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.	APT FILING NUMBER: CT-255T-830	DESIGN TYPE: RAW LAND	
	 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	REVISIONS: REV.1: 11/12/12: FOR REVIEW: SMC REV.2: 11/16/12: FOR FILING: SMC REV.3: 12/11/12: TOWN'S COMMENTS: SMC REV.4: 12/17/12: CSC INTERROGATORIES: SMC REV.5: 05-29-13: COW CHANGE: SMC REV.6:		SHEET NUMBER: R-1
	 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	PHONE: (860)-663-1697 FAX: (860)-663-0935		



SURVEY NOTES

THIS SURVEY AND MAP HAS BEEN PREPARED IN ACCORDANCE WITH SECTIONS 20-300B-1 THRU 20-300B-20 OF THE REGULATIONS OF CONNECTICUT STATE AGENCIES - "MINIMUM STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ENDORSED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPT. 26, 1995. IT IS AN IMPROVEMENT LOCATION AND IS BASED UPON A DEPENDENT RESURVEY CONFORMING TO HORIZONTAL ACCURACY CLASS A-2 AND A VERTICAL ACCURACY OF CLASS T-2 AND IS INTENDED TO BE USED FOR THE PURPOSE OF SHOWING EXISTING CONDITIONS AND PROPERTY LINE INFORMATION.

MAP REFERENCES

- 1) MAP OF PROPERTY PREPARED FOR PAUL J. PUSHER, REDDING & BETHEL, CONN., SCALE 1"=100', DATED NOV. 19, 1973, BY RYAN AND FAULDS - LAND SURVEYORS.
- 2) MAP PREPARED FOR GLADYS H. BUTLER, REDDING, CONNECTICUT, SCALE 1"=50', DATED JANUARY 1966, BY JOHN W. FULLER.
- 3) MAP PREPARED FOR ROBERT S. PARADISE, 4 DITTMAR ROAD, REDDING, CONNECTICUT, SCALE 1"=40', DATED 7-30-85, BY CARROCCIO - COVILL & ASSOCIATES.
- 4) RIGHT OF WAY MAP, TOWN OF REDDING, GEORGETOWN - REDDING ROAD, FROM THE GEORGETOWN - BETHEL ROAD NORTHEASTERLY TO THE BETHEL TOWN LINE, ROUTE NO. 107, SCALE 1"=40', DATED SEPT. 30, 1932, BY CONNECTICUT STATE HIGHWAY DEPARTMENT. NO. 11116-04 SHEET NO. 7 OF 7.

ALL IMPROVEMENTS ARE NOT SHOWN.

PARCEL ADDRESS: 4 DITTMAR ROAD, WEST REDDING, CT 06896.

PARCEL OWNER OF RECORD: ROBERT SAMUEL PARADISE.

PARCEL IS IN THE R-2 ZONE.

PARCEL MAP 32 BLOCK 47 LOT 15 REDDING ASSESSORS MAP.

PARCEL AREA = 242,187 SQ. FT., 5.560 ACRES.

PARCEL IS IN ZONE X OF THE FLOOD INSURANCE RATE MAP, FAIRFIELD COUNTY, CONNECTICUT, ALL JURISDICTIONS, PANEL 234 OF 6289, MAP NUMBER 09001C234F, EFFECTIVE DATE JUNE 18, 2010, BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY.

HANDICAPPED REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAP ACCESS NOT REQUIRED.

DRAINAGE NOTE:
THE IMPERVIOUS AREA ON THE SUBJECT PARCEL WILL BE INCREASED BY APPROXIMATELY 2.3%.

LAND DISTURBANCE NOTE:
0.38 ACRES (0.19 AC COMPOUND, 0.19 AC UTILITIES) OF LAND WILL BE DISTURBED DURING CONSTRUCTION ACTIVITIES, WHICH IS BELOW THE 0.5 ACRE LIMIT NOTED IN FIGURE 3-1 OF PAGE 3-3 OF THE 2002 CT EROSION AND SEDIMENT CONTROL GUIDELINES.

SITE AREAS & VOLUMES OF EARTHWORK

SITework SHALL ENTAIL APPROXIMATELY 365 CUBIC YARDS OF CUT (310 CY FOUNDATION EXCAVATION & 55 CY COMPOUND UTILITIES) AND 426 CY FILL. APPROXIMATELY 75 CUBIC YARDS OF CRUSHED STONE SHALL BE IMPORTED TO CONSTRUCT THE COMPOUND AND IMPROVE THE ACCESS ROAD.

COMPOUND AREA SLOPES:
EXISTING - 7%
NEW - 4.5%

TOTAL AREA OF DISTURBANCE = 8292± SF (COMPOUND)
= 8150± SF (COWs)

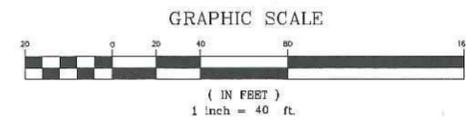
STORMWATER VELOCITY:
PRIOR TO GROUND COVER = <5 FT/SEC
FOLLOWING GROUND COVER = <5 FT/SEC

GROUND COVER TO BE ESTABLISHED AS FOLLOWS:
- WHITE CLOVER @ 0.20#/- SF
- TALL FESCUE @ 0.45#/- SF
- RYEGRASS @ 0.10#/- SF

LEGEND

—	CURB	▣	DRAINAGE INLET / STRUCTURE
—	DROP CURB	▣	CATCH BASIN
—	WALL	⊙	SIGN
—	STONE WALL	⊙	LIGHT POLE
—	EDGE OF PAVEMENT	⊙	UTILITY POLE
—	OVERHEAD WIRES	—	STOCKADE FENCE
⊙	STRUCTURE - MANHOLE	— 23 —	CONTOURS
⊙	GAS VALVE	— 65 —	TOP/BOTTOM OF CURB
⊙	WATER VALVE	55.43	SPOT ELEVATION
⊙	HANDICAP PARKING	▣	CONCRETE
⊙	PARKING STALL COUNT	—	GUY WIRE

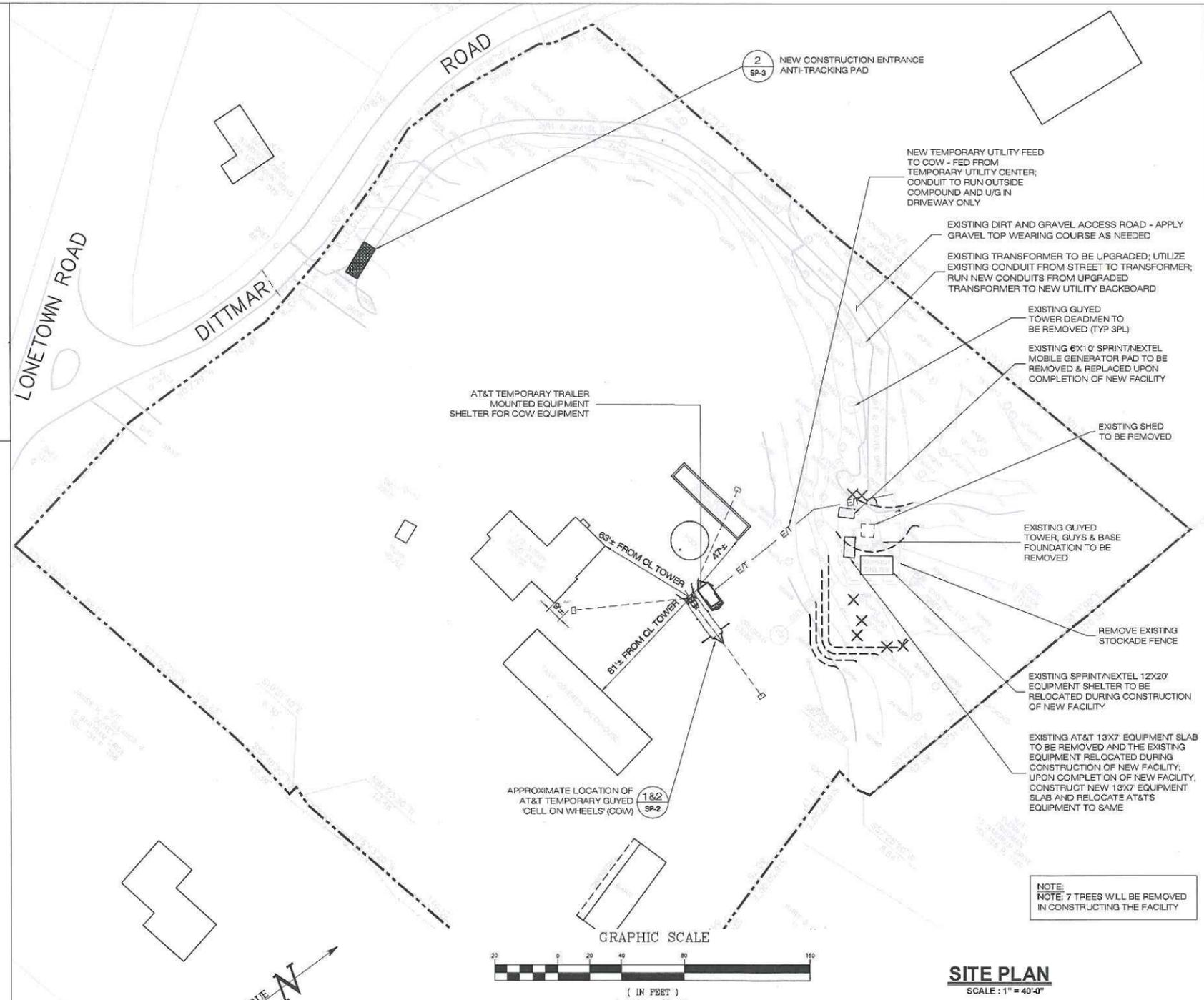
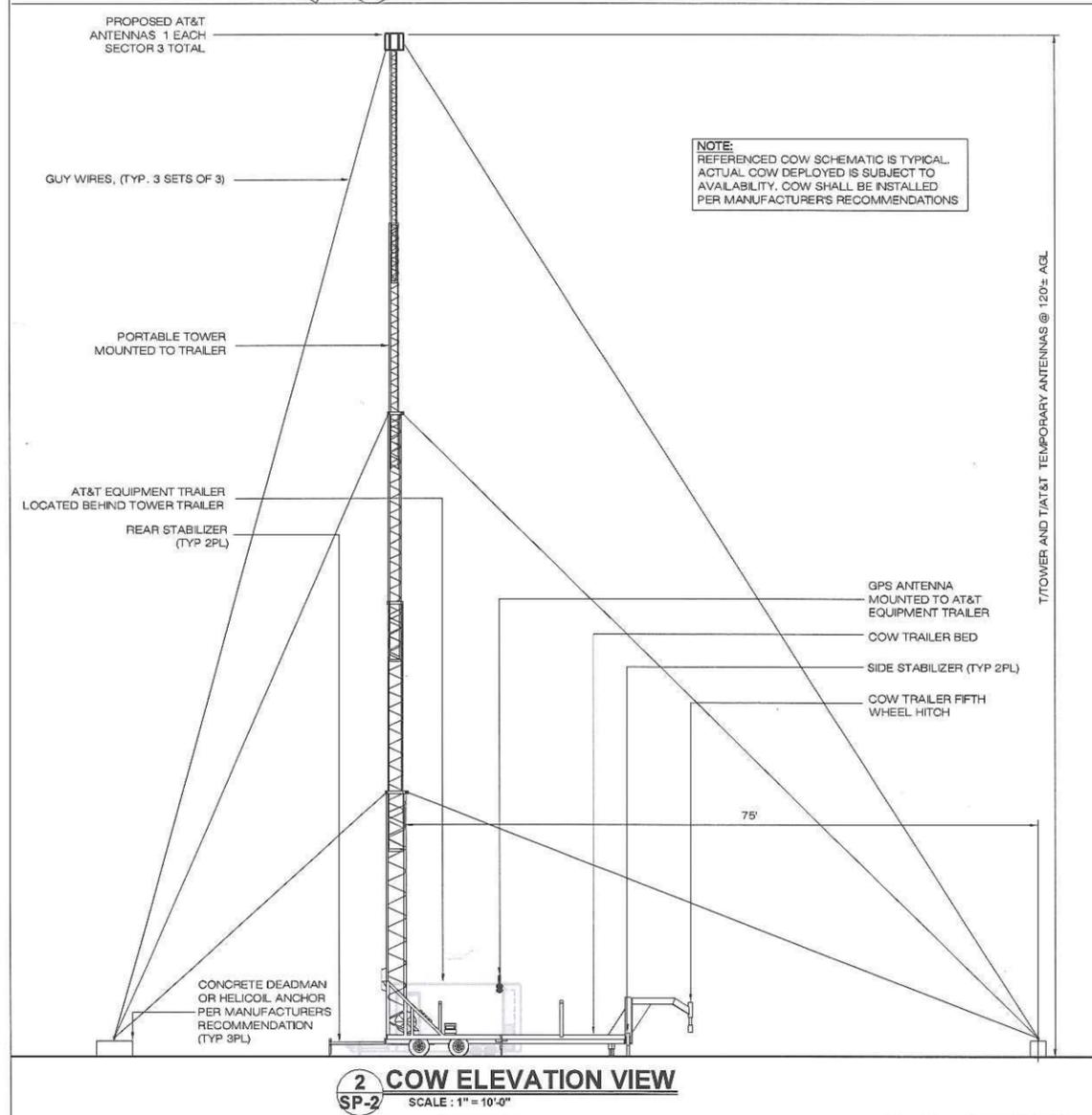
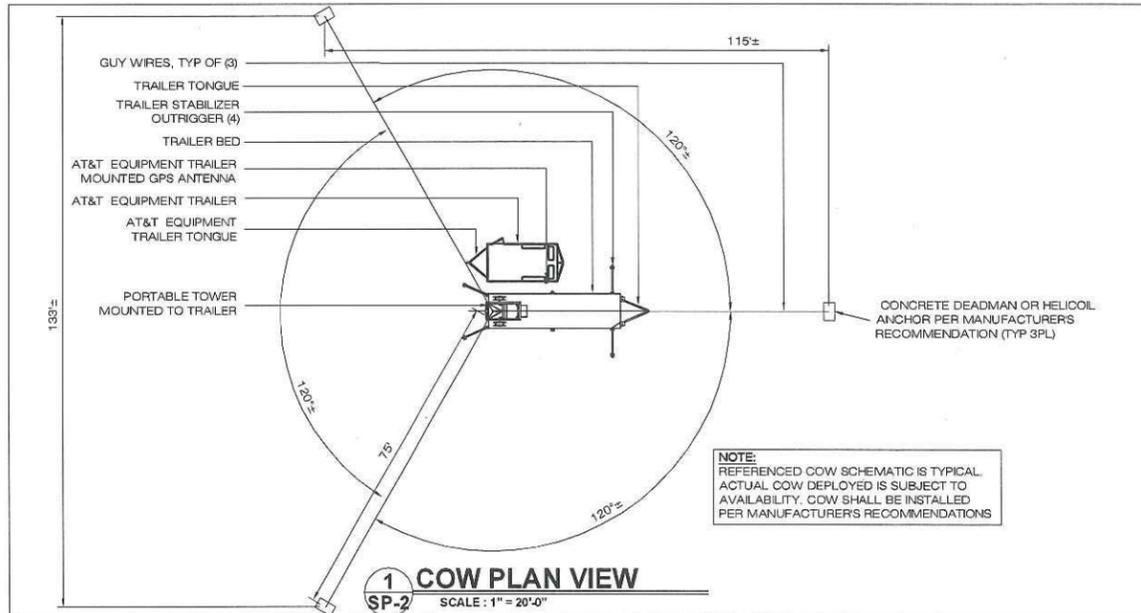
NOTE:
NOTE: 7 TREES WILL BE REMOVED IN CONSTRUCTING THE FACILITY



SITE PLAN
SCALE: 1" = 40'-0"



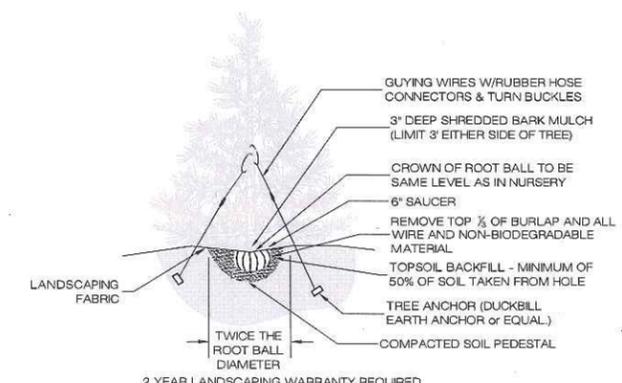
<p>MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7453</p>	<p>T-MOBILE SITE NUMBER: CTFF632</p> <p>APT FILING NUMBER: CT-255T-830</p>	<p>DEVELOPMENT & MANAGEMENT PLAN</p> <p>MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896</p>		<p>SITE PLAN</p> <p>APT FILING NUMBER: CT-255T-830</p> <p>APT DRAWING NUMBER: CTFF632</p> <p>DRAWN BY: SMC</p> <p>CHECKED BY: SMC</p> <p>SCALE: AS NOTED</p> <p>DATE: 03/15/11</p>
	<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p>	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>REVISIONS:</p> <p>REV.1: 11/12/12: FOR REVIEW: SMC</p> <p>REV.2: 11/16/12: FOR FILING: SMC</p> <p>REV.3: 12/11/12: TOWN'S COMMENTS: SMC</p> <p>REV.4: 12/17/12: CSC INTERROGATORIES: SMC</p> <p>REV.5: 05-29-13: COW CHANGE: SMC</p> <p>REV.6:</p>	
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		<p>SHEET NUMBER: SP-2</p>	

PLANT LIST

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	REMARKS
12	AC	ABIES CONCOLOR	WHITE FIR	12-14' HT.	FULL AND DENSE TO GROUND
9	IO	ILEX OPACA	AMERICAN HOLLY	8-10' HT.	FULL AND DENSE TO GROUND
19	JH	JUNIPERUS HETZI COLUMNARIS	GREEN COLUMNNA R JUNPER	7-8' HT.	FULL AND DENSE TO GROUND
20	JV	JUNIPERUS VIRGINIANA	EASTERN RED CEDAR	12-14' HT.	FULL AND DENSE TO GROUND



1 EVERGREEN TREE PLANTING DETAIL
 LS-1

LANDSCAPING NOTES

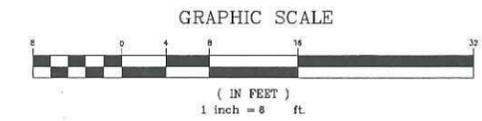
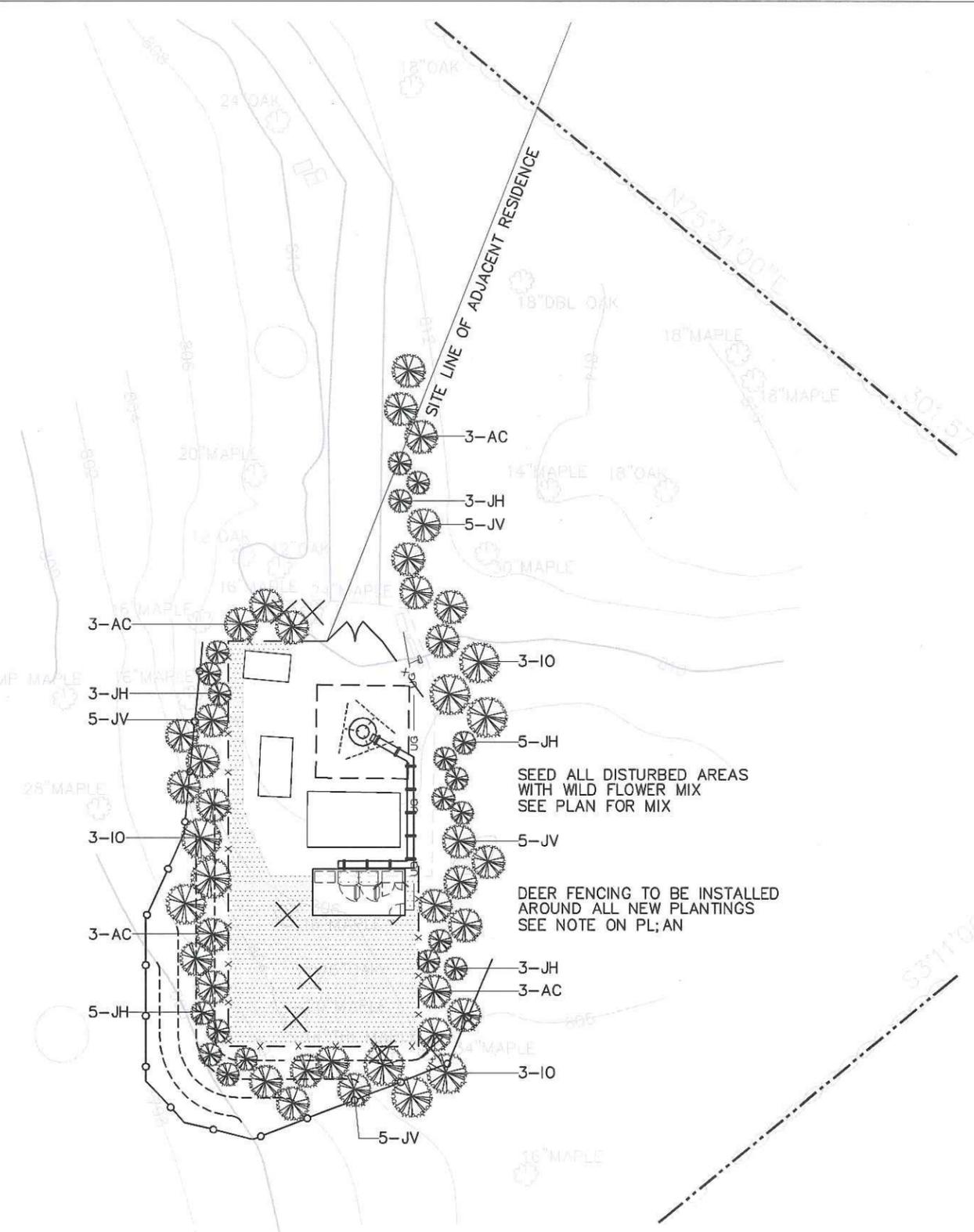
- ALL LANDSCAPING SHALL BE INSTALLED PER STANDARDS AND SPECIFICATIONS OF THE TOWN OF REDDING.
- EXISTING TREE CANOPY HEIGHT IS APPROXIMATELY 65'.
- OWNER SHALL GUARANTEE AND BE RESPONSIBLE FOR MAINTAINING THE LANDSCAPE PLANTINGS SPECIFIED FOR A PERIOD OF (2) YEARS.
- ALL PLANTINGS SHALL BE MAINTAINED IN A HEALTHY RIGOROUS CONDITION.
- ANY AND ALL INVASIVE SPECIES FOUND IN THIS AREA SHALL BE REMOVED.
- ANY AND ALL PLANTS FOUND TO BE DEAD OR IN POOR CONDITION AFTER THE (2) YEAR GUARANTEE SHALL BE REPLACED IN KIND AND SIZE.
- ALL PROPOSED PLANTINGS SHALL BE INSTALLED BETWEEN APRIL 15TH AND OCTOBER 15TH.

SEED MIX

ANY EXPOSED SOIL AREAS ASSOCIATED WITH THE WIRELESS TELECOMMUNICATIONS FACILITY, ACCESS ROAD AND STORMWATER MANAGEMENT AREAS SHALL BE SOWN WITH NEW ENGLAND EROSION CONSERVATION/WILDLIFE MIX SUPPLIED BY NEW ENGLAND WETLAND PLANTS, INC. (413.548.8000) OR APPROPRIATE SUBSTITUTE. THE NEW ENGLAND CONSERVATION/WILDLIFE MIX PROVIDES A PERMANENT COVER OF GRASSES, FORBS, WILDFLOWERS, LEGUMES AND GRASSES TO PROVIDE BOTH GOOD EROSION CONTROL AND WILDLIFE HABITAT VALUE AND INCLUDES THE FOLLOWING SPECIES: BIG BLUESTEM (ANDROPOGON GERARDII), SWITCHGRASS (Panicum VIRGATUM), LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM), VIRGINIA WILD RYE (ELYMUS VIRGINICUS), PARTRIDGE PEA (CHAMAECRISTA FASCICULATA), COMMON MILKWEED (ASCLEPIAS SYRIACA), SHOWY TICK-TREFOIL (DESMODIUM CANADENSE), NEW ENGLAND ASTER (ASTER NOVAE-ANGLIAE), SPOTTED JOE PYE WEED (EUPATORIUM MACULATUM), GRASS LEAVED GOLDENROD (EUTHAMIA GRAMINIFOLIA) CREEPING RED FESCUE (FESTUCA RUBRA), OX EYE SUNFLOWER (HELIOPSIS HELIANTHOIDES), DEER TONGUE (Panicum CLANDESTINUM), TALL GREEN HEADED CONEFLOWER (RUDBECKIA LAGNIATA), EARLY GOLDENROD (SOLIDAGO JUNCEA), INDIAN GRASS (SORGHASTRUM NUTANS). THE SEED MIX WILL BE APPLIED AT A RATE OF 1LB/1,500 SQUARE FEET. SOIL CONDITIONING ACTIVITIES, INCLUDING RAKING, WILL BE COMBINED WITH THE SEED APPLICATION PROCESS.

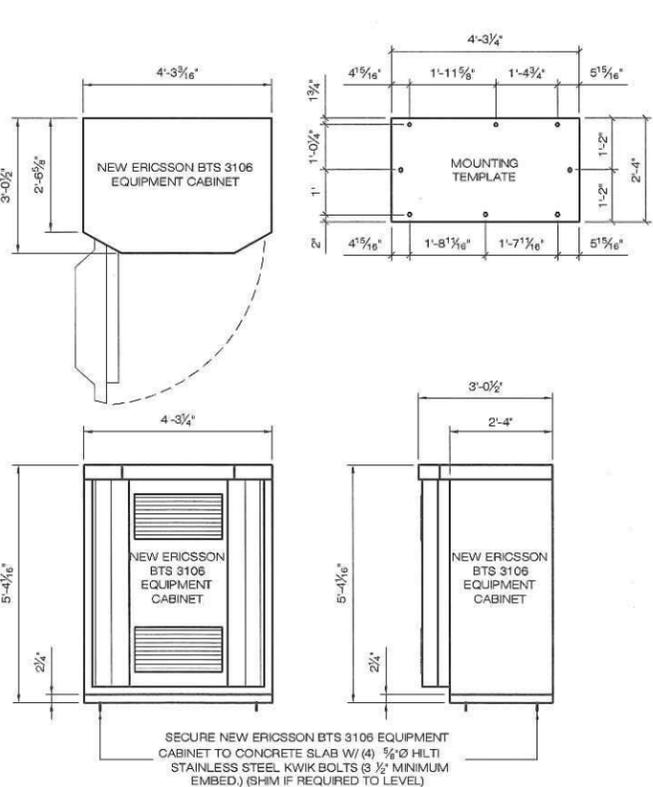
DEER FENCING NOTES

- DEER FENCING SHALL BE INSTALLED AROUND ALL NEW PLANTINGS AND INSPECTED AND REPAIRED AS NECESSARY.
- DEER FENCING SHALL BE 8' HIGH MOUNTED TO ANGLE STEEL LINE POSTS - NIXALITE DEER BLOCKER DEER FENCING, OR EQUAL.

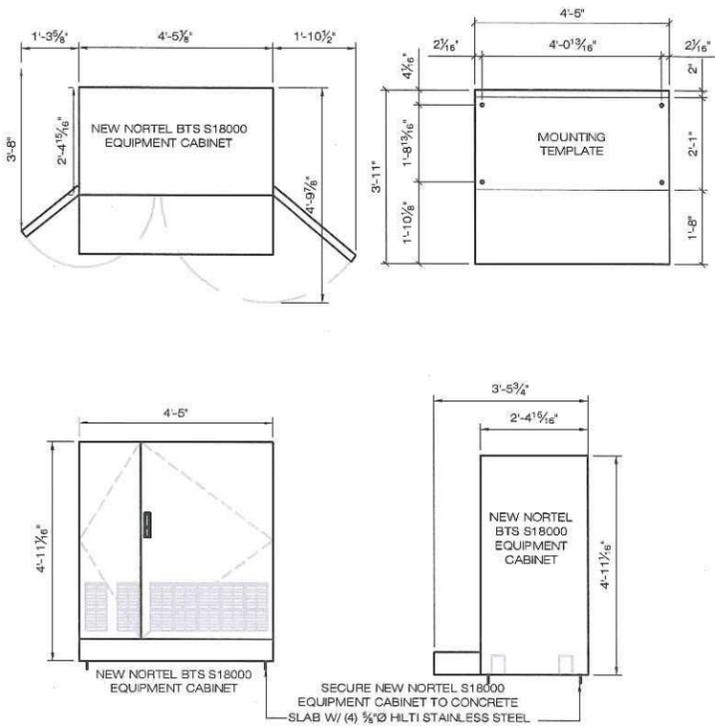


WILLIAM (BUDDY) JOHNSON
 LANDSCAPE ARCHITECT
 555 MEADOW CT. 11-C
 SOUTHOLD, NEW YORK 11971
 PHONE: 631-765-1793

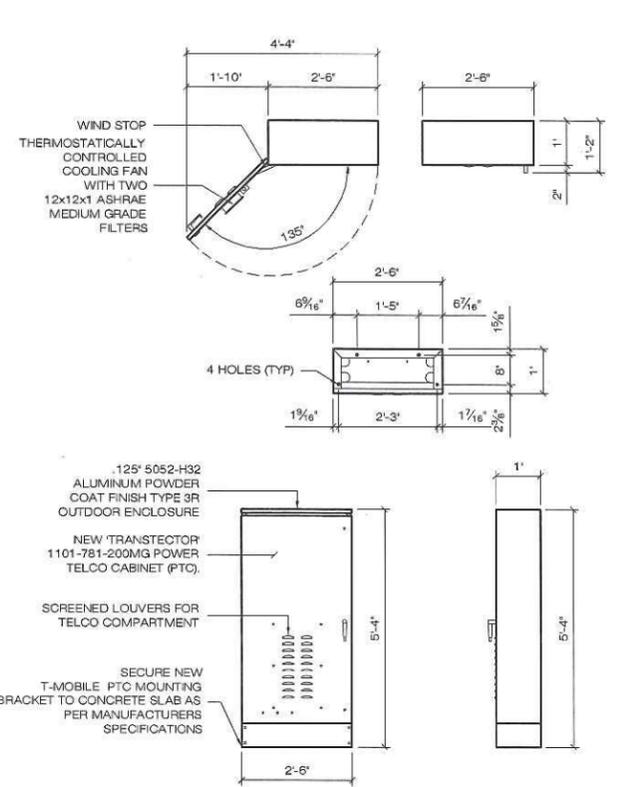
 MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483	T-MOBILE SITE NUMBER: CTFF632	DEVELOPMENT & MANAGEMENT PLAN MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896	LANDSCAPE PLAN APT FILING NUMBER: CT-255T-830 APT DRAWING NUMBER: CTFF632 DRAWN BY: WWJ CHECKED BY: SMC SCALE: 1/8" = 1' DATE: 08/22/12
	APT FILING NUMBER: CT-255T-830	DESIGN TYPE: RAW LAND	
THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.	 35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100	REVISIONS: REV.1: 11/12/12: FOR REVIEW: SMC REV.2: 11/16/12: FOR FILING: SMC REV.3: 12/11/12: TOWN'S COMMENTS: SMC REV.4: 12/17/12: CSC INTERROGATORIES: SMC REV.5: 05/29/13: COW CHANGE: SMC REV.6:	
	 ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE PHONE: (860)-663-1697 KILLINGWORTH, CT 06419 FAX: (860)-663-0935 WWW.ALLPOINTS TECH.COM		



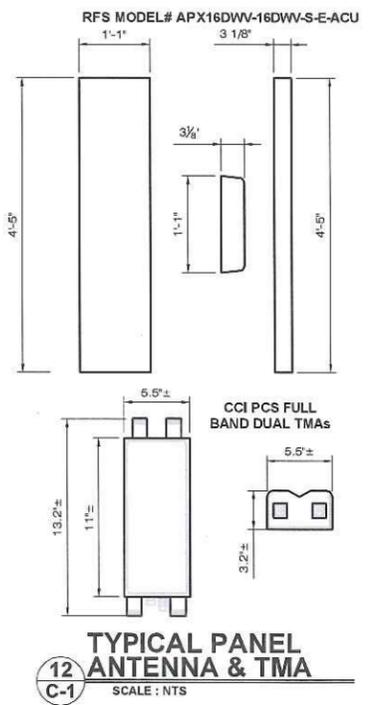
1 ERICSSON RBS 3106 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



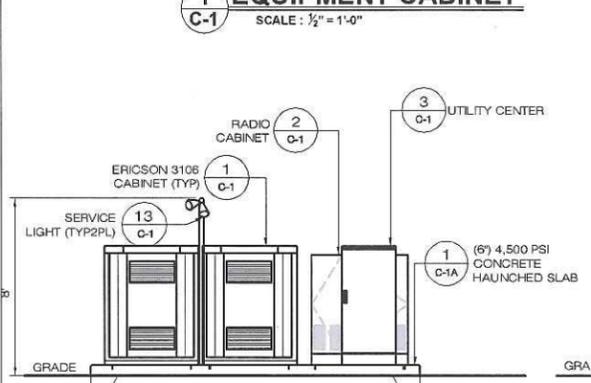
2 NORTEL BTS S18000 EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



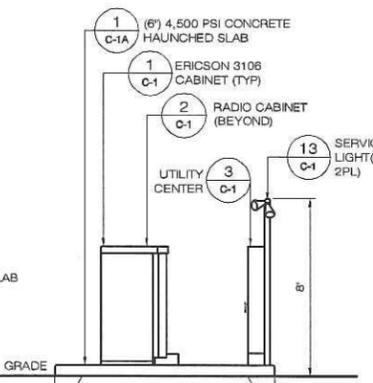
3 TRANSTECTOR PTC CABINET
SCALE: 1/2" = 1'-0"



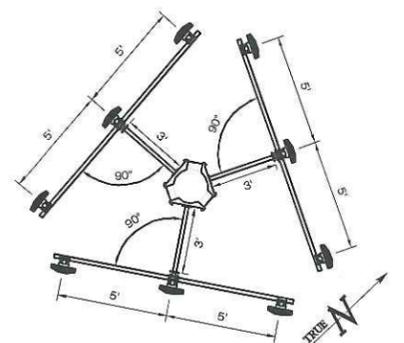
12 TYPICAL PANEL ANTENNA & TMA
SCALE: NTS



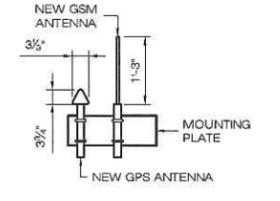
5 SOUTHERN ELEVATION
SCALE: 1/4" = 1'-0"



6 EASTERN ELEVATION
SCALE: 1/4" = 1'-0"

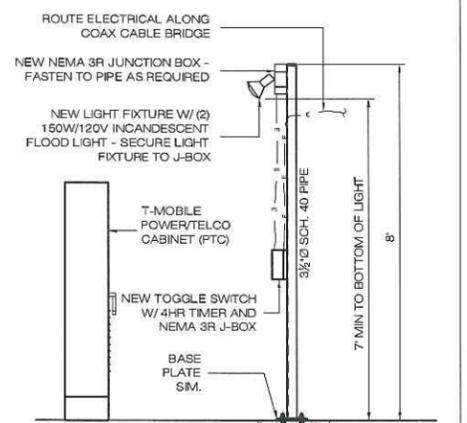


10 ANTENNA PLAN
SCALE: 1/4" = 1'-0"

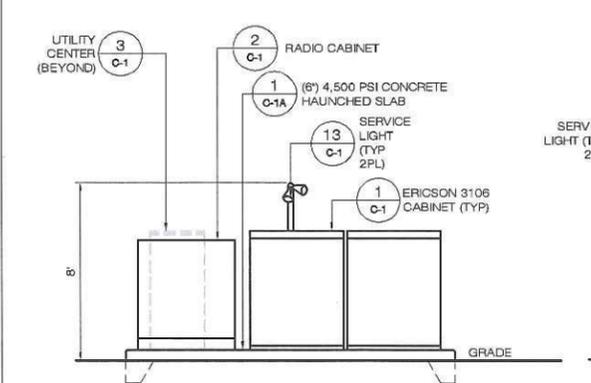


11 TYPICAL GSM & GPS ANTENNA DETAILS
SCALE: NTS

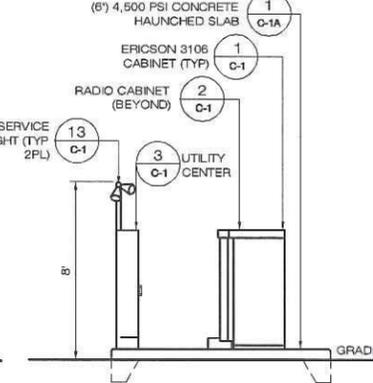
DESIGN LOAD CRITERIA	
EQUIPMENT SHELTER SHALL BE DESIGNED AND MANUFACTURED TO MEET ALL STATE AND LOCAL CODES. ITS LAYOUT SHALL BE COORDINATED WITH CARRIERS.	
DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	DESIGN LIVE LOADS 40 PSF (ASCE 7-02)
DESIGN LIVE LOADS	IMPORTANCE CATEGORY II
IMPORTANCE CATEGORY	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	100 MPH (3 SECOND GUST)
EXPOSURE GROUP	B
IMPORTANCE FACTOR	1.00
EQUIPMENT LOAD:	
EQUIPMENT DL	9,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.354
MCE SPECTRAL ACCELERATION SHORT (S)	0.089
SITE CLASS	C
IMPORTANCE FACTOR	1.0



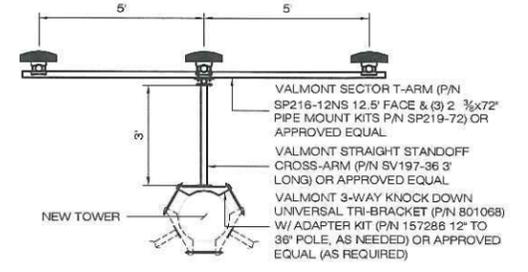
13 SERVICE LIGHT
SCALE: 1/2" = 1'-0"



7 NORTHERN ELEVATION
SCALE: 1/4" = 1'-0"

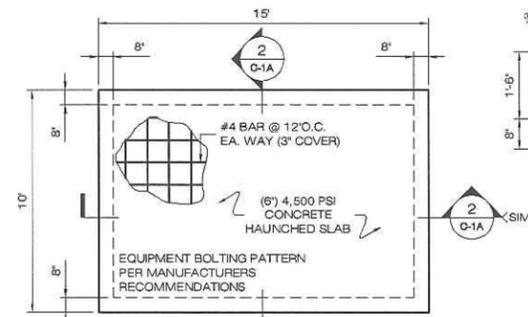


8 WESTERN ELEVATION
SCALE: 1/4" = 1'-0"

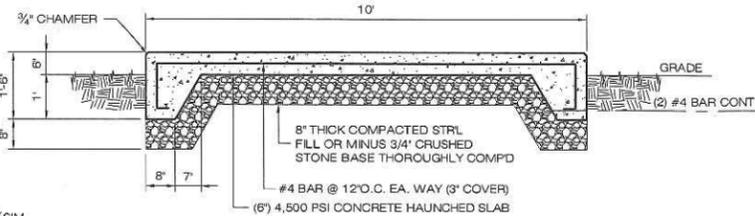


9 ANTENNA MOUNT
SCALE: 1/8" = 1'-0"

<p>MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483</p>	<p>T-MOBILE SITE NUMBER: CTFF632</p> <p>APT FILING NUMBER: CT-255T-830</p>	<p>DEVELOPMENT & MANAGEMENT PLAN</p> <p>MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896</p>	<p>T-MOBILE EQUIPMENT PLAN & DETAILS</p>
	<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p>	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>APT FILING NUMBER: CT-255T-830</p> <p>APT DRAWING NUMBER: CTFF632</p> <p>DRAWN BY: SMC</p> <p>CHECKED BY: SMC</p> <p>SCALE: AS NOTED</p> <p>DATE: 03/15/11</p>
<p>THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE NORTHEAST LLC. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.</p>	<p>ALL-POINTS TECHNOLOGY CORPORATION</p> <p>3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM</p> <p>PHONE: (860)-663-1697 FAX: (860)-663-0935</p>	<p>REVISIONS:</p> <p>REV.1: 11/12/12: FOR REVIEW: SMC</p> <p>REV.2: 11/16/12: FOR FILING: SMC</p> <p>REV.3: 12/11/12: TOWN'S COMMENTS: SMC</p> <p>REV.4: 12/17/12: CSC INTERROGATORIES: SMC</p> <p>REV.5: 05-29-13: COW CHANGE: SMC</p> <p>REV.6:</p>	<p>STATE OF CONNECTICUT PROFESSIONAL ENGINEER</p>

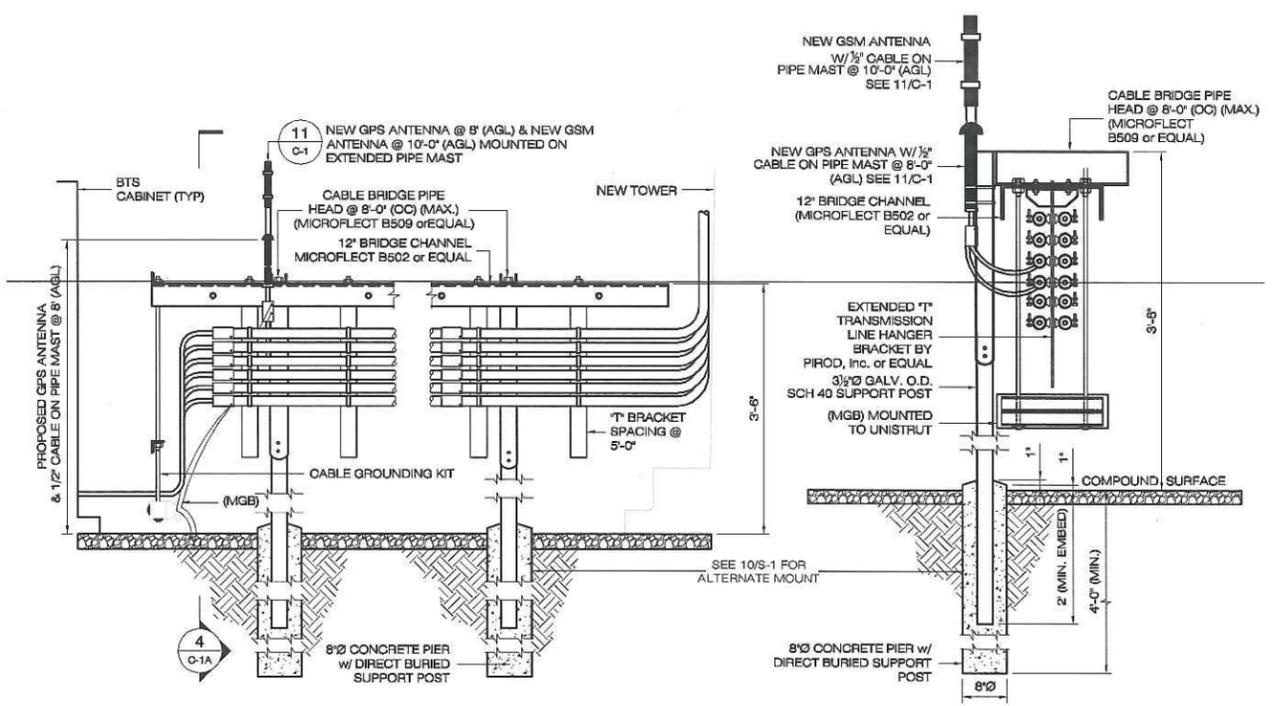


2 HAUNCHED SLAB PLAN
C-1A SCALE: 1/4" = 1'-0"



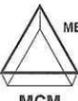
- NOTES:**
1. CONCRETE SHALL BE $F_c = 4,500$ PSI (MIN.) @ 28 DAYS WITH MAXIMUM WATER/CEMENT (W/C) RATIO = 0.45 AND AIR ENTRAINED IN ACCORDANCE WITH IBC SECTION 1904 "DURABILITY REQUIREMENTS".
 2. DEFORMED REINFORCING BARS SHALL BE FABRICATED WITHOUT SPLICES. SUPPORT BAR MAT ON CONCRETE BRICK.
 3. ALL INTERSECTING BARS SHALL BE TIED. TURN ENDS OF TIE WIRE AWAY FROM EXPOSED SURFACES.

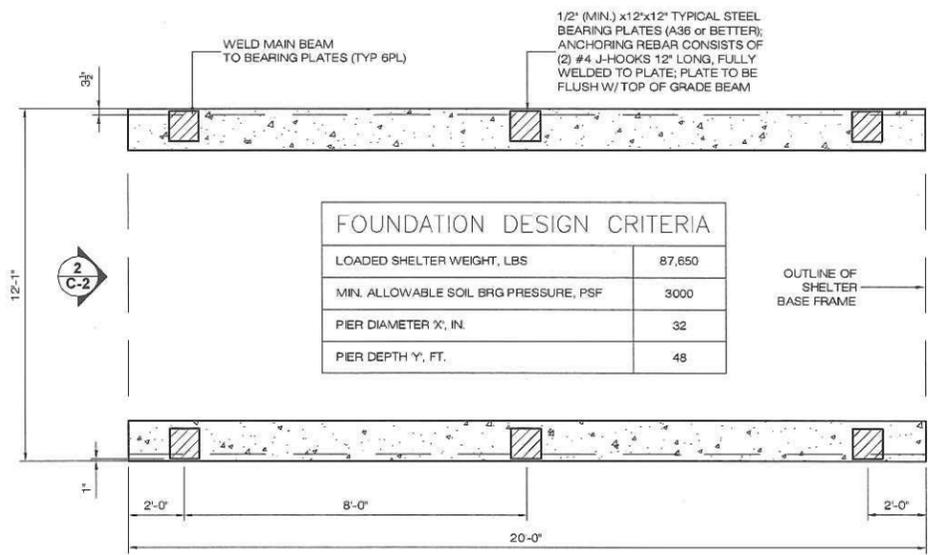
2 HAUNCHED SLAB DETAIL
C-1A SCALE: 1/2" = 1'-0"



3 CABLE BRIDGE DETAIL
C-1A SCALE: N.T.S.

4 SECTION VIEW
C-1A SCALE: N.T.S.

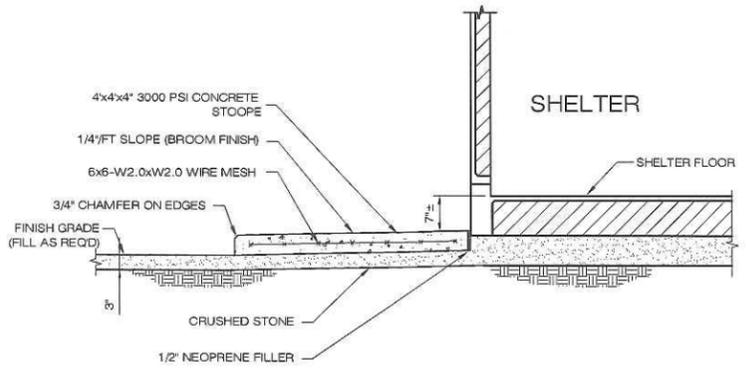
 MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483	T-MOBILE SITE NUMBER: CTFF632	DEVELOPMENT & MANAGEMENT PLAN MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896	T-MOBILE EQUIPMENT DETAILS
	APT FILING NUMBER: CT-255T-830	DESIGN TYPE: RAW LAND	APT FILING NUMBER: CT-255T-830 APT DRAWING NUMBER: CTFF632 DRAWN BY: SMC CHECKED BY: SMC DATE: 03/15/11
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 ALL-POINTS TECHNOLOGY CORPORATION 3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSTECH.COM	PHONE: (860)-663-1697 FAX: (860)-663-0935		



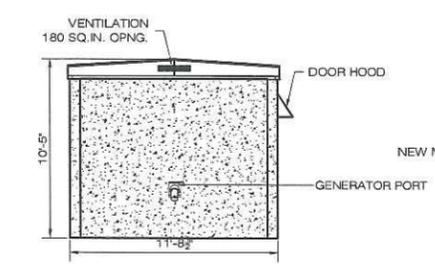
FOUNDATION DESIGN CRITERIA

LOADED SHELTER WEIGHT, LBS	87,650
MIN. ALLOWABLE SOIL BRG PRESSURE, PSF	3000
PIER DIAMETER X, IN.	32
PIER DEPTH Y, FT.	48

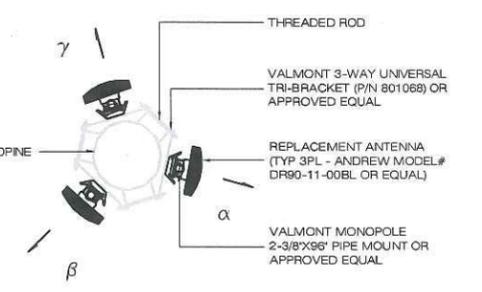
1 FOUNDATION PLAN
SCALE: NTS



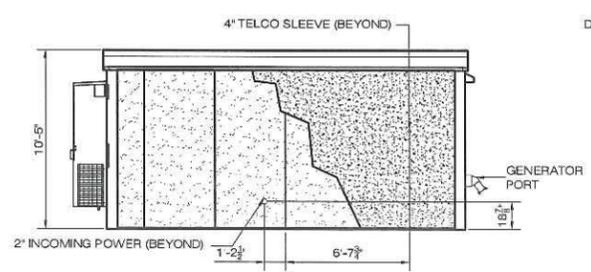
4 CONCRETE STOOP DETAIL
SCALE: NTS



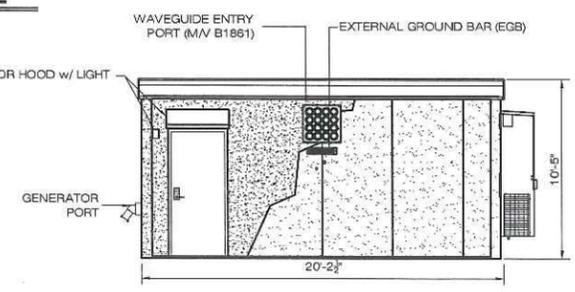
8 EASTERN ELEVATION
SCALE: NTS



11 ANTENNA PLAN
SCALE: 1/4" = 1'-0"

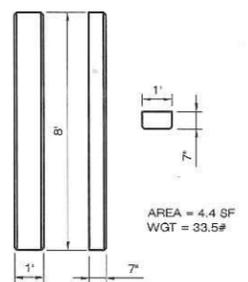


5 SOUTHERN ELEVATION
SCALE: NTS

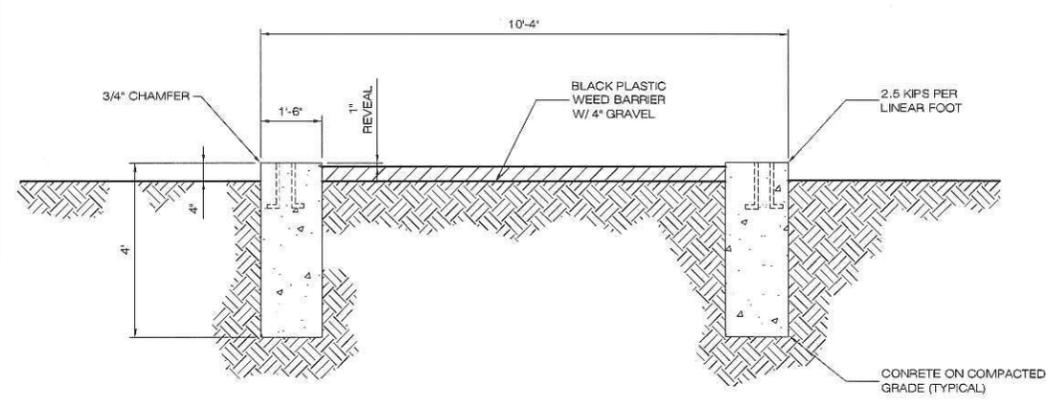


9 NORTHERN ELEVATION
SCALE: NTS

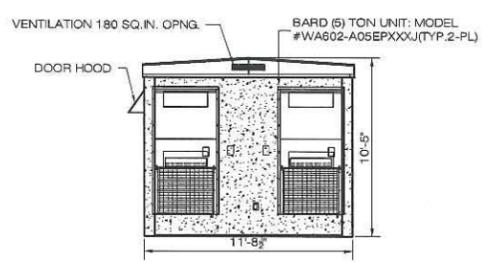
REPLACEMENT ANTENNA (TYP 3PL - ANDREW MODEL# DR90-11-00BL OR EQUAL)



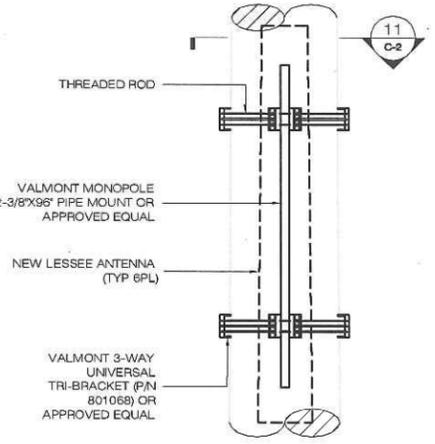
12 ANTENNA SPEC
SCALE: 1/4" = 1'-0"



2 GRADE BEAM FOUNDATION SECTION
SCALE: NTS



6 WESTERN ELEVATION
SCALE: NTS

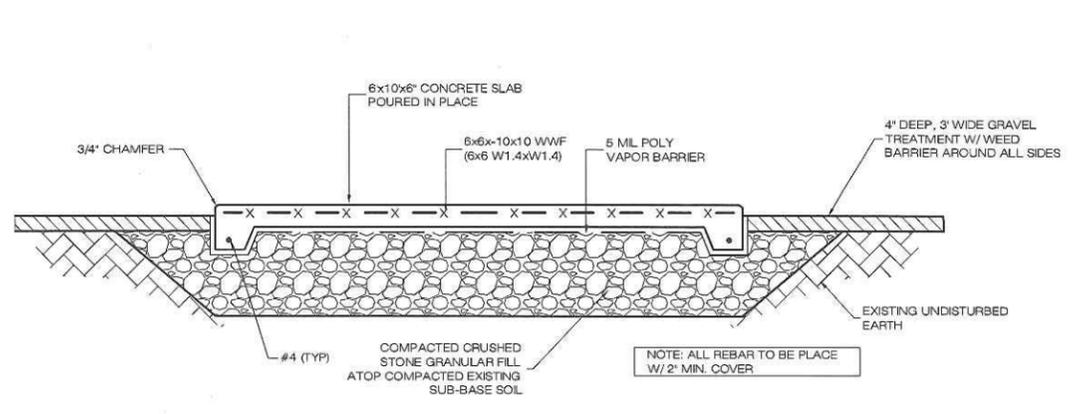


10 ANTENNA MOUNT
SCALE: 1/2" = 1'-0"

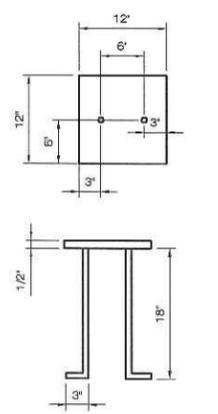
DESIGN LOAD CRITERIA

EQUIPMENT SHELTER SHALL BE DESIGNED AND MANUFACTURED TO MEET ALL STATE AND LOCAL CODES. ITS LAYOUT SHALL BE COORDINATED WITH CARRIERS.

DESIGN BASIS	CONNECTICUT STATE BUILDING CODE
GOVERNING CODE	250 PSF (ASCE 7-02)
DESIGN LIVE LOADS	II
IMPORTANCE CATEGORY	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	100 MPH (3 SECOND GUST)
EXPOSURE GROUP	B
IMPORTANCE FACTOR	1.00
EQUIPMENT LOAD:	
EQUIPMENT DL	38,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.354
MCE SPECTRAL ACCELERATION SHORT (S1)	0.059
SITE CLASS	C
IMPORTANCE FACTOR	1.0

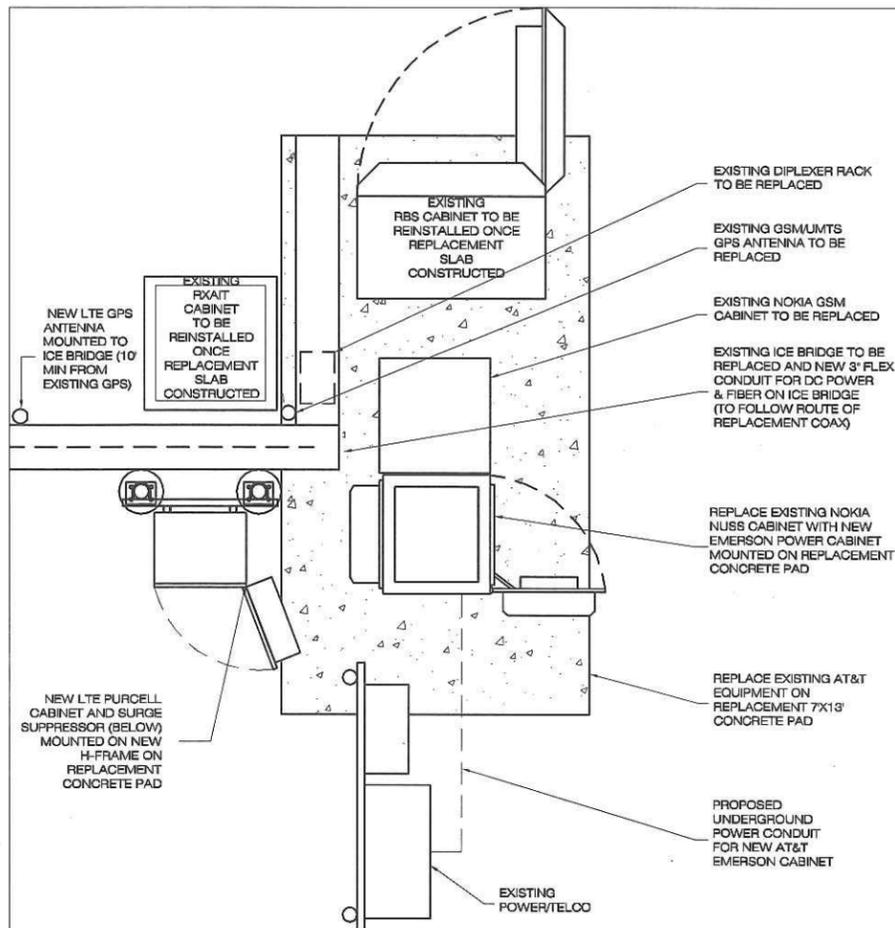


3 GENERATOR PAD FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

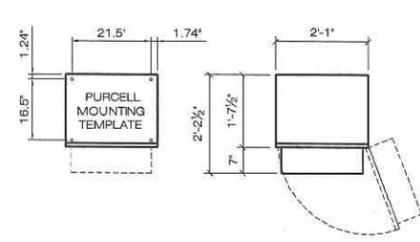


7 BEARING PLATE DETAIL
SCALE: NTS

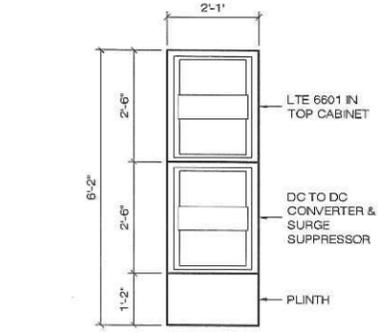
<p>MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483</p>	<p>T-MOBILE SITE NUMBER: CTFF632</p> <p>APT FILING NUMBER: CT-255T-830</p>	<p>DEVELOPMENT & MANAGEMENT PLAN</p> <p>MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896</p>		<p>SPRINT/NEXTEL EQUIPMENT DETAILS</p>	
	<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p>	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>APT FILING NUMBER: CT-255T-830</p> <p>APT DRAWING NUMBER: CTFF632</p> <p>DRAWN BY: SMC</p> <p>CHECKED BY: SMC</p> <p>DATE: 03/15/11</p>	<p>REVISIONS:</p> <p>REV.1: 11/12/12: FOR REVIEW: SMC</p> <p>REV.2: 11/16/12: FOR FILING: SMC</p> <p>REV.3: 12/11/12: TOWN'S COMMENTS: SMC</p> <p>REV.4: 12/17/12: CSC INTERROGATORIES: SMC</p> <p>REV.5: 05-29-13: COW CHANGE: SMC</p> <p>REV.6:</p>	<p>SHEET NUMBER:</p> <p>C-2</p>
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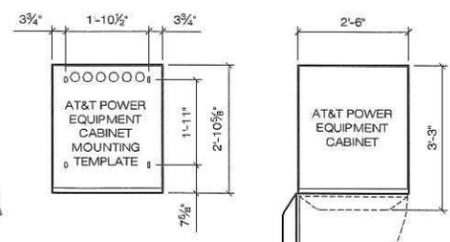
EQUIPMENT PLAN
SCALE: 1/2" = 1'-0"



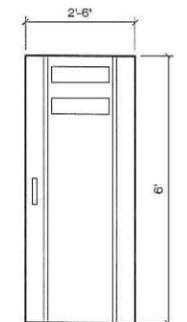
SPECIFICATIONS:
74"± TALL x 25"± WIDE x 26.5"± DEEP
WEIGHT: 600 LBS.



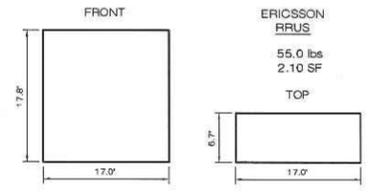
1 PURCELL W/ 14" PLINTH EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



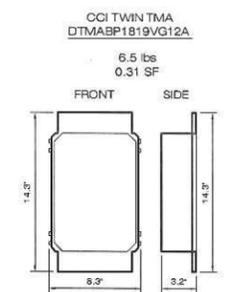
SPECIFICATIONS:
72"± TALL x 30"± WIDE x 39"± DEEP
WEIGHT: 1,109 LBS
WITH (3) STRINGS OF 180 AL SAFTELX NiCd BATTERIES



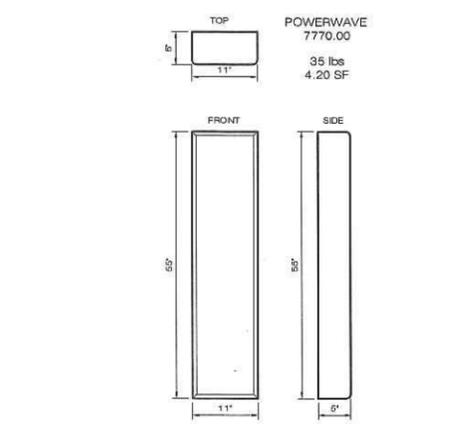
2 AT&T RBA72 POWER & BATTERY EQUIPMENT CABINET
SCALE: 1/2" = 1'-0"



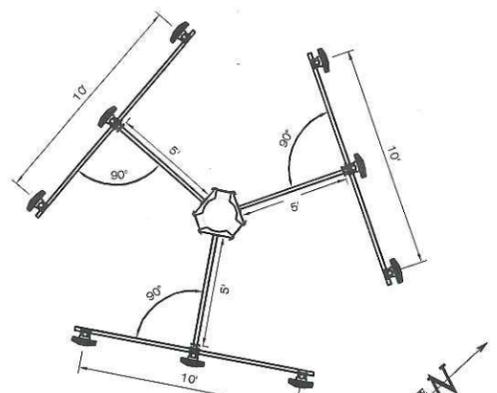
3 TYPICAL RRUS
SCALE: 1" = 1'-0"



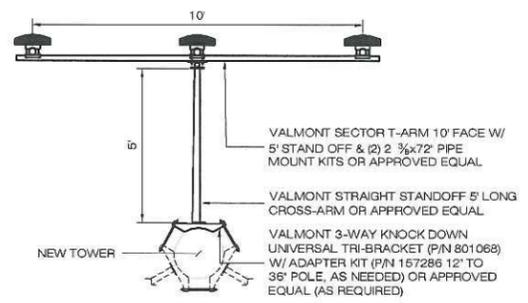
4 TYPICAL TMA
SCALE: 1 1/2" = 1'-0"



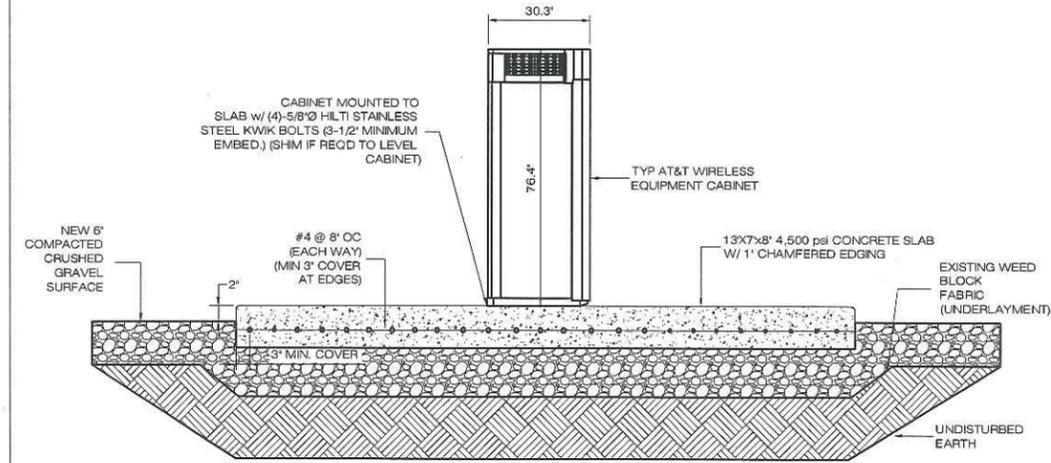
5 TYPICAL PANEL ANTENNA
SCALE: NTS



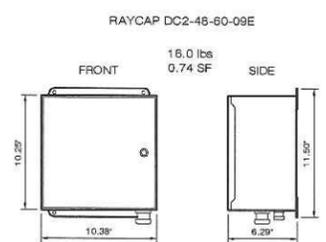
6 ANTENNA PLAN
SCALE: 1/2" = 1'-0"



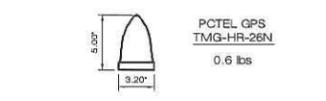
7 ANTENNA MOUNT
SCALE: 1/2" = 1'-0"



8 AT&T EQUIPMENT SLAB SECTION VIEW
SCALE: NTS



9 TYPICAL SURGE SUPPRESSOR
SCALE: 1 1/2" = 1'-0"



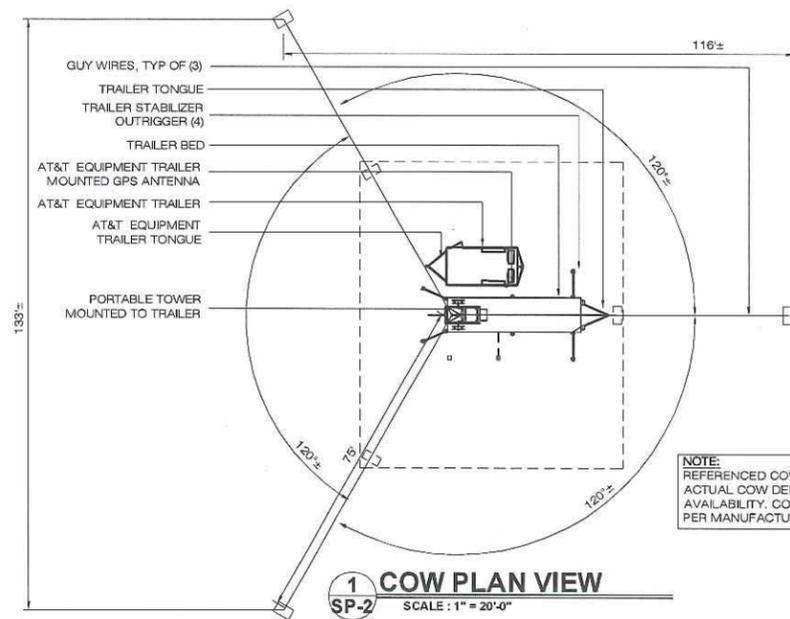
10 TYPICAL GPS UNIT
SCALE: 1 1/2" = 1'-0"

DESIGN LOAD CRITERIA

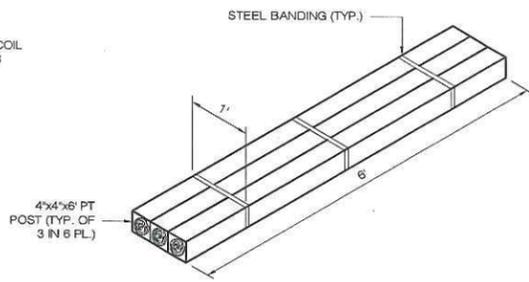
EQUIPMENT SHELTER SHALL BE DESIGNED AND MANUFACTURED TO MEET ALL STATE AND LOCAL CODES. ITS LAYOUT SHALL BE COORDINATED WITH CARRIERS.

DESIGN BASIS	CONNECTICUT
GOVERNING CODE	STATE BUILDING CODE
DESIGN LIVE LOADS	250 PSF (ASCE 7-02)
IMPORTANCE CATEGORY	II
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR	1.0
EXPOSURE FACTOR (Ce)	1.0
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	100 MPH (3 SECOND GUST)
EXPOSURE GROUP	B
IMPORTANCE FACTOR	1.00
EQUIPMENT LOAD:	
EQUIPMENT DL	10,500 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.354
MCE SPECTRAL ACCELERATION SHORT (S)	0.089
SITE CLASS	C
IMPORTANCE FACTOR	1.0

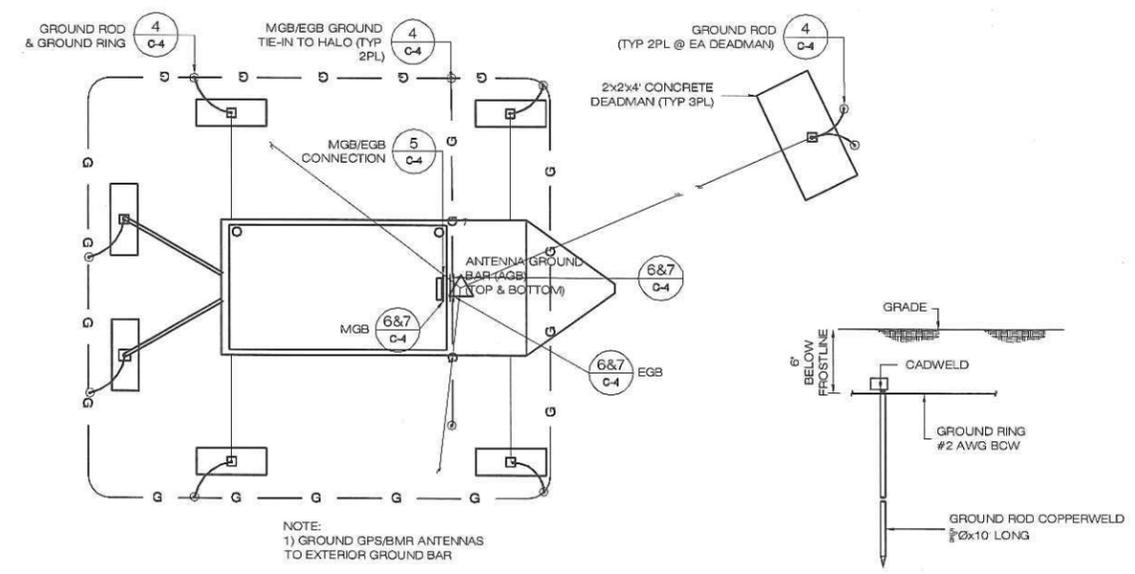
<p>MESSAGE CENTER MANAGEMENT 40 WOODLAND STREET HARTFORD, CT 06105 OFFICE: (888) 973-7483</p>	<p>T-MOBILE SITE NUMBER: CTFF632</p> <p>APT FILING NUMBER: CT-255T-830</p>	<p>DEVELOPMENT & MANAGEMENT PLAN</p> <p>MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896</p>	<p>AT&T EQUIPMENT DETAILS</p>
	<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p>	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>APT FILING NUMBER: CT-255T-830</p> <p>APT DRAWING NUMBER: CTFF632</p> <p>DRAWN BY: SMC CHECKED BY: SMC</p> <p>SCALE: AS NOTED DATE: 03/15/11</p>
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1 COW PLAN VIEW
SP-2 SCALE: 1" = 20'-0"

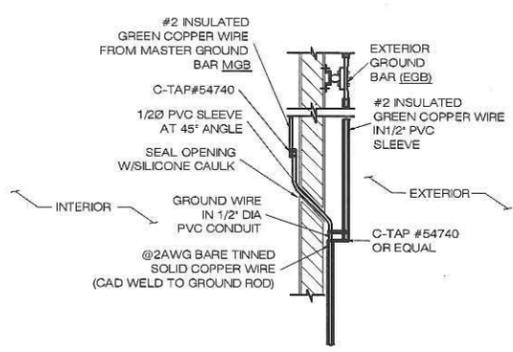


2 OUTRIGGER CRIBBING
C-4 SCALE: NTS

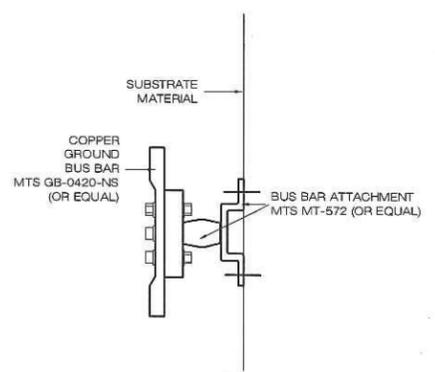


3 GROUNDING PLAN
C-4 SCALE: NTS

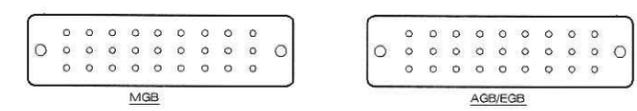
4 GROUND ROD DETAIL
C-4 SCALE: NTS



5 MGB/EGB CONNECTION DETAIL
C-4 SCALE: NTS



6 GROUND BAR MOUNTING DETAIL
C-4 SCALE: NTS



GROUNDING SPECIFICATIONS:
 1) ALL CONDUCTORS 2 AWG W/ 2 HOLE LUGS.
 2) ALL FIELD SIZED LUGS MUST CONFORM W/ NEMA STANDARDS.
 3) NO CAD WELDS TO GROUND BAR.
 4) DOUBLE UP COAX GROUND LEADS ON BACKSIDE OF GROUND BAR AS NECESSARY.
 5) COPPER BUS BAR: MTS GB0420-NH 4"x20"x1/4" (OR EQUAL)

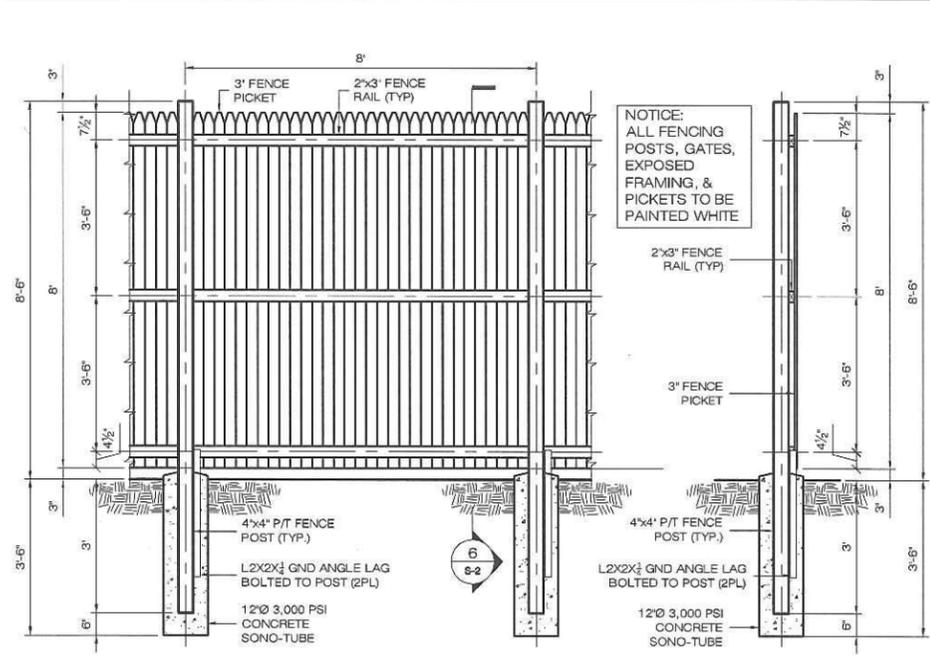
NOTES:
 1) MGB = MASTER GROUND BAR
 2) AGB = ANTENNA GROUND BAR
 3) EGB = EXTERIOR GROUND BAR
 4) FOR CONNECTION, SEE DETAIL (5/C-4)

MGB:
 1) HALO RING
 2) SPARE
 3) RADIO EQUIPMENT
 4) POLYPHASE BAR

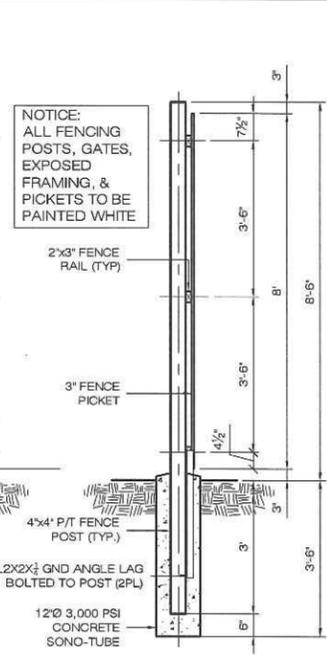
AGB/EGB:
 1) EXISTING GROUND RING
 2) MASTER GROUND BAR
 3) GPS COAX
 4) COAX

7 GROUND BARS
C-4 SCALE: NTS

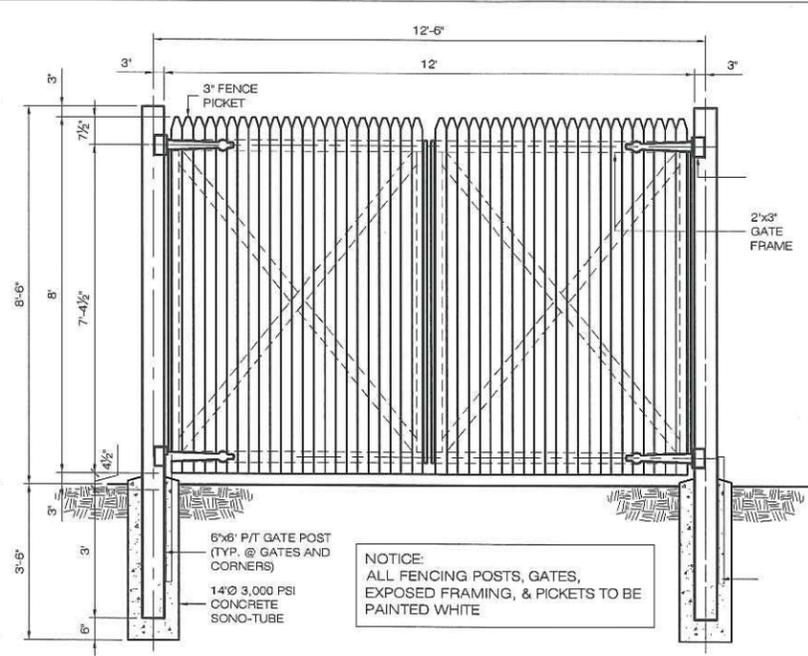
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	<p>T-Mobile</p> <p>35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100</p>	<p>DESIGN TYPE:</p> <p>RAW LAND</p>	<p>APT FILING NUMBER: CT-255T-830 APT DRAWING NUMBER: CTFF632 DRAWN BY: SMC CHECKED BY: SMC</p>
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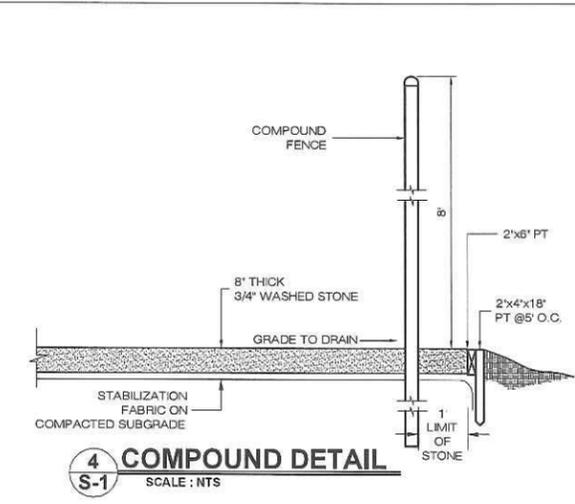
1 COMPOUND FENCE DETAIL
S-1 SCALE: 1/2" = 1'-0"



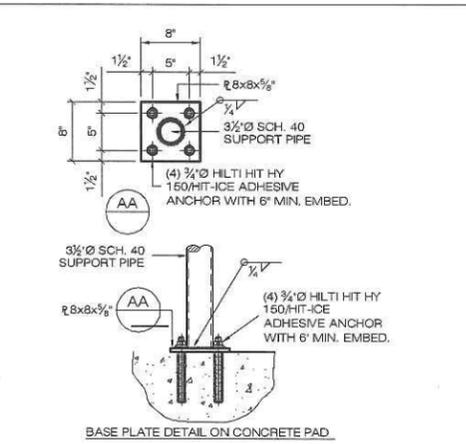
2 FENCE DETAIL
S-1 SCALE: 1/2" = 1'-0"



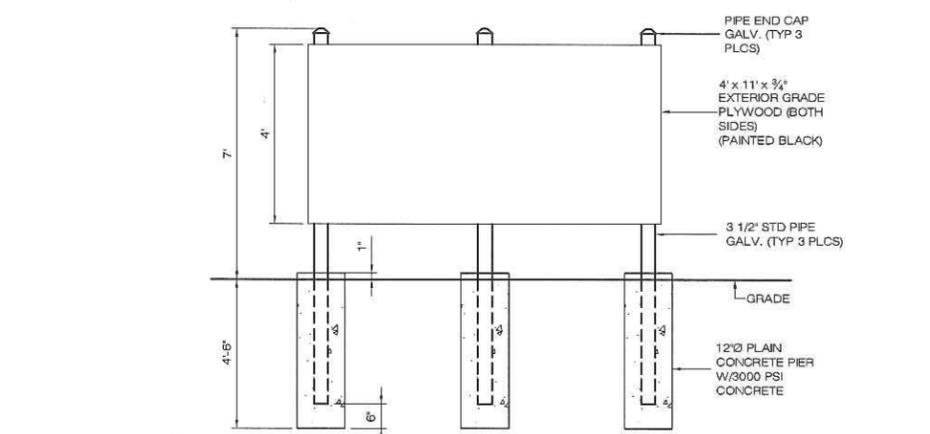
3 COMPOUND GATE DETAIL
S-1 SCALE: 1/2" = 1'-0"



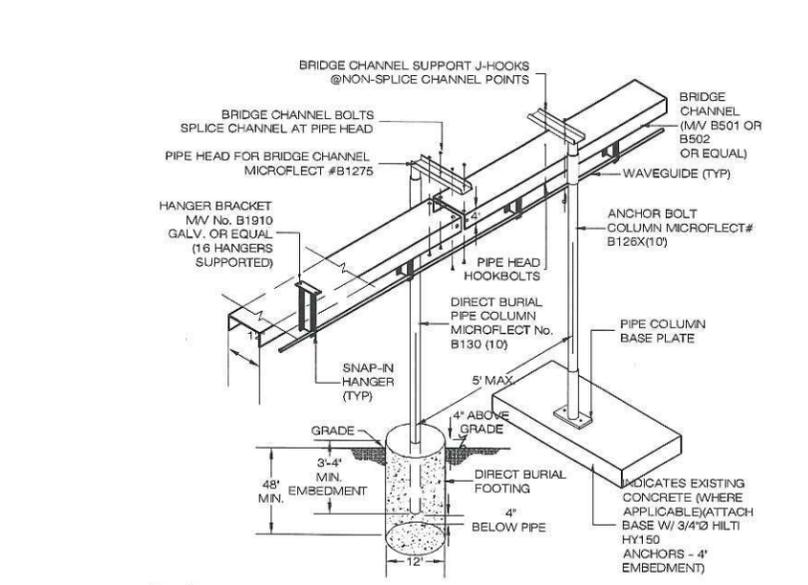
4 COMPOUND DETAIL
S-1 SCALE: N.T.S.



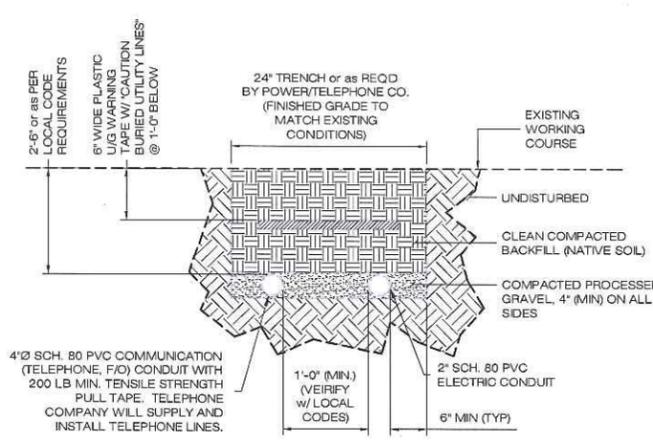
5 HAUNCHED SLAB PLAN
S-1 SCALE: N.T.S.



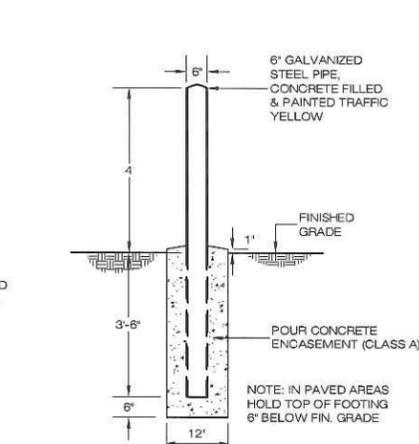
6 UTILITY BACKBOARD DETAIL
S-1 SCALE: N.T.S.



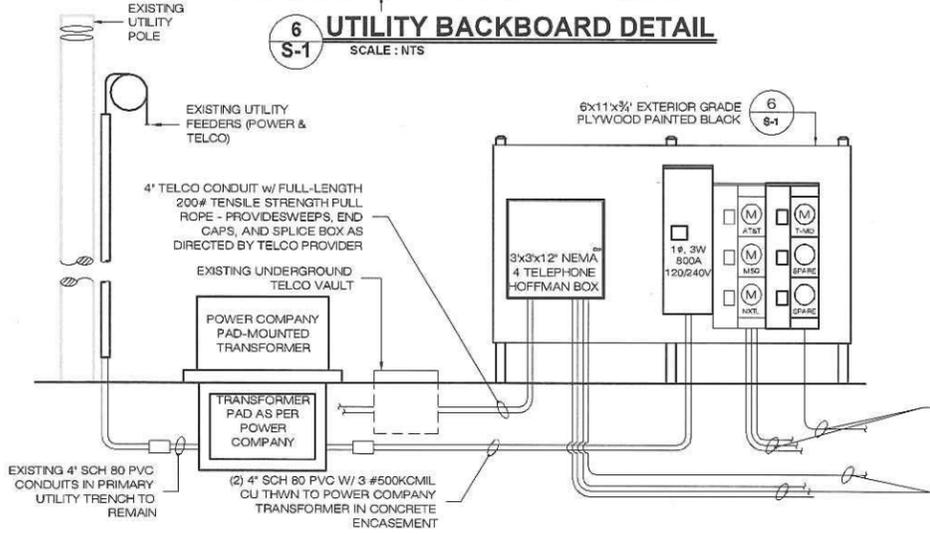
7 CABLE BRIDGE & COAX HANGER DETAIL
S-1 SCALE: N.T.S.



8 SECONDARY TRENCH DETAIL
S-1 SCALE: N.T.S.



9 BOLLARD DETAIL
S-1 SCALE: N.T.S.



8 UTILITY RISER
S-1 SCALE: N.T.S.

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GENERAL NOTES:

- ALL MATERIALS AND METHODS OF CONSTRUCTION SHALL COMPLY WITH THE STANDARDS AND SPECIFICATIONS OF THE TOWN OF REDDING AND OTHER GOVERNMENTAL AGENCIES, AS APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL FOLLOW CONDITIONS OF ALL APPLICABLE PERMITS AND WORK IN ACCORD WITH OSHA REGULATIONS.
- UTILITY INFORMATION SHOWN ON THE PLAN IS BASED ON VISIBLE FIELD EVIDENCE AND AVAILABLE RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO COMMENCING WORK. THE CONTRACTOR IS ADVISED THAT THESE DRAWINGS MAY NOT ACCURATELY DEPICT AS-BUILT LOCATIONS AND OTHER UNKNOWN STRUCTURES. THE CONTRACTOR SHALL THEREFORE DETERMINE THE EXACT LOCATION OF EXISTING UNDERGROUND ELEMENTS AND EXCAVATE WITH CARE AFTER CALLING MARKOUT SERVICE AT 1-800-922-4455 (72) HOURS BEFORE DIGGING, DRILLING OR BLASTING. CARE SHALL BE TAKEN NOT TO DISTURB EXISTING UTILITIES AND SERVICE CONNECTIONS (OR PORTIONS THERE OF) TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING STRUCTURES OR UTILITIES DAMAGED BY HIS OPERATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF NEW SERVICE CONNECTIONS AND SHALL COORDINATE WORK WITH THE APPROPRIATE UTILITY COMPANY.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, FIBER OPTIC, 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 THE ENGINEER.
- 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. THIS WILL INCLUDE, BUT NOT BE LIMITED TO:
 - FALL PROTECTION,
 - CONFINED SPACE ENTRY,
 - ELECTRICAL SAFETY, AND
 - TRENCHING & EXCAVATION.
- ELECTRIC SERVICE SHALL BE COORDINATED WITH CONNECTICUT LIGHT & POWER (CL & P).
- ALL ELEVATIONS SHOWN ARE IN N.G.V. DATUM 1929.
- IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
- CONTRACTOR SHALL PROTECT EXISTING PAVED AND GRAVEL SURFACES, CURBS, LANDSCAPE AND STRUCTURES AND RESTORE SITE TO PRECONSTRUCTION CONDITION WITH AS GOOD, OR BETTER, MATERIALS. NEW MATERIALS SHALL MATCH EXISTING THICKNESS AND TYPE.
- THE CONTRACTOR SHALL SHORE ALL TRENCH EXCAVATION GREATER THAN 5 FEET IN DEPTH OR LESS WHERE SOIL CONDITIONS ARE DEEMED UNSTABLE. ALL SHEETING AND/OR SHORING METHODS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR MANAGING GROUNDWATER LEVELS IN THE VICINITY OF EXCAVATIONS TO PROTECT ADJACENT PROPERTIES AND NEW WORK. GROUNDWATER SHALL BE DRAINED IN ACCORDANCE WITH LOCAL SEDIMENTATION & EROSION CONTROL GUIDELINES.
- EXCAVATION
CONTRACTOR SHALL GRADE ONLY AREAS SHOWN TO BE MODIFIED HEREIN AND ONLY TO THE EXTENT REQUIRED TO SHED OVERLAND WATER FLOW AWAY FROM SITE. ALL SLOPES SHALL NOT BE STEEPER THAN 3:1 (HORIZ:VERT), UNO.

BEDROCK SUBGRADE SHOULD NOT BE STEEPER THAN 4H:1V. HIGH SPOTS IN BEDROCK SUBGRADES MAY NEED TO BE REMOVED AND LOW SPOTS MAY BE FILLED WITH LEAN CONCRETE OR MINUS 3/4" CRUSHED STONE TO PROVIDE A LEVEL SURFACE. BEDROCK SUBGRADES DO NOT REQUIRE PROOFROLLING.

SEDIMENTATION AND EROSION CONTROLS SHOWN AND SPECIFIED SHALL BE ESTABLISHED BEFORE STRIPPING EXISTING VEGETATION. ORGANIC MATERIAL AND DEBRIS SHALL BE STRIPPED AND STOCKPILED BEFORE ADDING FILL MATERIAL.

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.

ALL FILL SHALL BE PLACED IN EIGHT INCH LIFTS AND COMPACTED IN PLACE. STRUCTURAL FILL SHALL BE COMPACTED TO 95% MAXIMUM MODIFIED PROCTOR DRY DENSITY TESTED IN ACCORDANCE WITH ASTM D1557, METHOD C.

EXCAVATIONS FOR FOOTINGS SHALL BE CUT LEVEL TO THE REQUIRED DEPTH AND TO UNDISTURBED SOIL. REPORT UNSUITABLE SOIL CONDITIONS TO THE ENGINEER.

STRUCTURAL FILL BE TESTED FOR MOISTURE CONTENT AND COMPACTION DURING PLACEMENT. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED MOISTURE OR COMPACTION LIMITS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TEST SHOULD BE REWORKED AND RETESTED, AS REQUIRED, UNTIL THE SPECIFIED MOISTURE AND COMPACTION REQUIREMENTS ARE ACHIEVED.

EQUIPMENT CABINETS MAY BE SUPPORTED ON SLABS-ON-GRADE UNDERLAIN BY AT LEAST A 12-INCH THICKNESS OF COMPACTED STRUCTURAL FILL OR MINUS 3/4-INCH CRUSHED STONE PLACED ON THE EXISTING FILL, THE SURFACE OF WHICH SHOULD BE THOROUGHLY COMPACTED AND CLEAR OF ORGANIC MATTER.

THE AREA UNDERLYING THE SLABS SHOULD BE ROUGH GRADED AND THEN THOROUGHLY PROOFROLLED WITH A VIBRATORY ROLLER OR HEAVY PLATE COMPACTOR PRIOR TO FINAL GRADING AND PLACEMENT OF STRUCTURAL FILL OR MINUS 3/4-INCH CRUSHED STONE.

A SOIL UNIT WEIGHT OF 100 LBS PER CUBIC FOOT (PCF) SHOULD BE USED FOR ENGINEERED FILL OVERLYING THE FOOTINGS.

TRENCH EXCAVATIONS SHALL BE BACKFILLED AT THE END OF EACH DAY.

SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE.

TOWER FOUNDATION EXCAVATION, BACKFILL AND COMPACTION SHALL BE IN ACCORD WITH TOWER MANUFACTURERS DESIGNS AND SPECIFICATIONS

14. MATERIALS
NATIVE GRAVEL MATERIAL MAY BE USED FOR TRENCH BACKFILL WHERE SELECT MATERIAL IS NOT SPECIFIED. GRAVEL MATERIAL FOR CONDUIT TRENCH BACKFILL SHALL NOT CONTAIN ROCK GREATER THAN 2 INCHES IN DIAMETER.

BANK OR CRUSHED GRAVEL SHALL CONSIST OF TOUGH, DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE OF SOFT, THIN, ELONGATED OR LAMINATED PIECES AND MEET THE GRADATION.

FILL SHOULD MEET THE FOLLOWING MATERIAL PROPERTY REQUIREMENTS:

FILL TYPE (1)	USCS CLASSIFICATION	ACCEPTABLE LOCATION FOR PLACEMENT
STRUCTURAL FILL	GW (2)	ALL LOCATIONS AND ELEVATIONS. THE WEATHERED BEDROCK MAY BE SELECTIVELY RE-USED AS STRUCTURAL FILL, PROVIDED IT MEET THE GRADATION REQUIREMENTS IN NOTE 2, BELOW.
COMMON FILL	VARIES (3)	COMMON FILL MAY BE USED FOR SITE GRADING TO WITHIN 12 INCHES OF FINISHED GRADE. COMMON FILL SHOULD NOT BE USED UNDER SETTLEMENT SENSITIVE STRUCTURES. THE WEATHERED BEDROCK MAY BE RE-USED AS COMMON FILL PROVIDED IT IS FREE OF ORGANICS AND CAN BE ADEQUATELY COMPACTED.

1. COMPACTED STRUCTURAL FILL SHOULD CONSIST OF APPROVED MATERIALS THAT ARE FREE OF ORGANIC MATTER AND DEBRIS. FROZEN MATERIAL SHOULD NOT BE USED. FILL SHOULD NOT BE PLACED ON A FROZEN SUBGRADE.

2. IMPORTED STRUCTURAL FILL SHOULD MEET THE FOLLOWING GRADATION PERCENT PASSING BY WEIGHT

SIEVE SIZE	STRUCTURAL FILL
6"	100
3"	70-100
2"	(100)*
3/4"	45-95
NO. 4	30-90
NO. 10	25-80
NO. 40	10-50
NO. 200	0-12

* MAXIMUM 2-INCH PARTICLE SIZE WITHIN 12 INCHES OF THE UNDERSIDE OF FOOTINGS OR SLABS

3. COMMON FILL SHOULD HAVE A MAXIMUM PARTICLE SIZE OF 6 INCHES AND NO MORE THAN 25 PERCENT BY WEIGHT PASSING THE US NO. 200 SIEVE.

SEDIMENTATION/EROSION

- THE CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE 2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- CONTRACTOR SHALL PERFORM CONSTRUCTION SEQUENCING SUCH THAT EARTH MATERIALS ARE EXPOSED FOR A MINIMUM OF TIME BEFORE THEY ARE COVERED, SEEDDED, OR OTHERWISE STABILIZED TO PREVENT EROSION. THE FOLLOWING GENERAL CONDITIONS SHALL BE OBSERVED:
 - LIMITS OF CLEARING AND GRUBBING SHALL BE CLEARLY MARKED BEFORE COMMENCING WITH SUCH WORK.
 - EXISTING VEGETATION TO REMAIN SHALL BE PROTECTED AND REMAIN UNDISTURBED.
 - CLEARING AND GRADING SHALL BE SCHEDULED SO AS TO MINIMIZE THE SIZE OF EXPOSED AREAS AND THE LENGTH OF TIME THAT AREAS ARE EXPOSED.
 - TOPSOIL SHALL BE SPREAD TO FINISH GRADES AND SEEDDED AS SOON AS FINISHED GRADES ARE ESTABLISHED. STRAW MULCH, JUTE NETTING OR MATS SHALL BE USED WHERE THE NEW SEED IS PLACED.
 - THE LENGTH AND STEEPNESS OF CLEARED SLOPES SHALL BE MINIMIZED TO REDUCE RUNOFF VELOCITIES.
 - RUNOFF SHALL BE DIVERTED AWAY FROM CLEARED SLOPES.
 - ALL SEDIMENT SHALL BE TRAPPED ON THE SITE.
- SEDIMENTATION AND EROSION CONTROL (SEC) MEASURES SHOWN SHALL BE INSTALLED PRIOR TO LAND CLEARING, EXCAVATION OR GRADING OPERATIONS. REQUIREMENTS SPECIFIED SHALL BE MET PRIOR TO COMMENCING EARTHWORK OPERATIONS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN SEC MEASURES THROUGHOUT DURATION OF PROJECT UNTIL DISTURBED LAND IS THOROUGHLY VEGETATED.
- FAILURE OF THE SEC SYSTEMS SHALL BE CORRECTED IMMEDIATELY AND SUPPLEMENTED WITH ADDITIONAL MEASURES AS NEEDED.
- VEGETATIVE SEEDING: UNO, AREA TO BE SEEDDED SHALL BE LOOSE AND FRIABLE TO A DEPTH OF 3". TOPSOIL SHALL BE LOOSENED BY RAKING OR DISKING BEFORE SEEDING. APPLY COARSE OR DOLOMITIC LIMESTONE AND 25 LBS. OF 10-10-10 FERTILIZER PER 1000 SF. HARROW LIMES AND FERTILIZER INTO LOOSE SOIL. APPLY COMMON BERMLUDA AND RYE GRASS AT 50 LBS/ACRE. USE CYCLONE SEED DRILL MULTIPACKER SEEDER OR HYDROSEEDER (SEED & FERTILIZER SLURRY) FOR STEEP SLOPES. IRRIGATE UNTIL VEGETATION IS COMPLETELY ESTABLISHED.
- PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS AND AS IDENTIFIED IN FEDERAL, STATE, AND LOCAL APPROVAL DOCUMENTS PERTAINING TO THIS PROJECT.
- INSPECT AND MAINTAIN EROSION CONTROL MEASURES, AND REMOVE SEDIMENT THEREFROM ON A WEEKLY BASIS AND WITHIN TWELVE HOURS AFTER EACH STORM EVENT AND DISPOSE OF SEDIMENTS IN AN UPLAND AREA SUCH THAT THEY DO NOT ENCUMBER OTHER DRAINAGE STRUCTURES AND PROTECTED AREAS.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE TO CONTROL CONSTRUCTION SUCH THAT SEDIMENTATION SHALL NOT AFFECT REGULATORY PROTECTED AREAS, WHETHER SUCH SEDIMENTATION IS CAUSED BY WATER, WIND, OR DIRECT DEPOS IT.
- UPON COMPLETION OF CONSTRUCTION AND ESTABLISHMENT OF PERMANENT GROUND COVER, CONTRACTOR SHALL REMOVE AND DISPOSE OF EROSION CONTROL MEASURES AND CLEAN SEDIMENT AND DEBRIS FROM ENTIRE DRAINAGE SYSTEMS LOCATED ON SITE.
- APPROPRIATE MEANS SHALL BE USED TO CONTROL DUST DURING CONSTRUCTION.
- STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED TO PREVENT SOIL AND LOOSE DEBRIS FROM BEING TRACKED ONTO LOCAL ROADS. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED UNTIL THE SITE IS PERMANENTLY STABILIZED.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES SHALL BE IN CONFORMANCE WITH THE STATE OF CONNECTICUT GUIDELINES FOR EROSION AND SEDIMENT CONTROL, AS AMENDED.
- TEMPORARY SILT FENCE EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT SITE CONSTRUCTION. STOCKPILE ON SITE 100 FT. OF SILT FENCE FOR EMERGENCY USE. TEMPORARY EROSION BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATIVE GROUND COVER IS ESTABLISHED.
- ALL DISTURBED AREAS OUTSIDE THE LIMITS OF THE EQUIPMENT LEASE AREA SHALL BE PERMANENTLY ESTABLISHED WITH A VEGETATIVE GROUND COVER.
- STILLING BASIN SHALL BE UTILIZED FOR ANY DE-WATERING 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.
- CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY GRADING ACTIVITIES IN LOCATIONS SHOWN ON THESE DRAWINGS.
- SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REPAIRS THAT ARE REQUIRED SHALL BE MADE IMMEDIATELY.
- IF THE FABRIC ON A SILT FENCE SHOULD DECOMPOSE OR BECOME INEFFECTIVE DURING THE EXPECTED LIFE OF THE FENCE, THE FABRIC SHALL BE REPLACED PROMPTLY.
- SEDIMENT DEPOSITS SHOULD BE INSPECTED AFTER EVERY STORM EVENT. THE DEPOSITS SHOULD BE REMOVED WHEN THEY REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
- SEDIMENT DEPOSITS THAT ARE REMOVED OR LEFT IN PLACE AFTER THE FABRIC HAS BEEN REMOVED SHALL BE GRADED TO CONFORM WITH THE EXISTING TOPOGRAPHY AND VEGETATION.
- NO GREATER THAN 80,000 SQUARE FEET OF LAND SHALL BE EXPOSED AT ANY ONE TIME DURING DEVELOPMENT. WHEN LAND IS EXPOSED DURING DEVELOPMENT, THE EXPOSURE SHOULD BE KEPT TO THE SHORTEST PRACTICAL PERIOD OF TIME AND SHALL NOT EXCEED 10 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
- ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDDED AREAS AT A RATE OF 2 TONS PER ACRES. BALES SHALL BE UNSPOOLED, AIR-DRIED, AND FREE FROM WEED, SEEDS, AND ANY COARSE MATERIAL.

STEEL NOTES & SPECIFICATIONS

- ### STEEL
- CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. THE ENGINEER SHALL BE NOTIFIED OF ANY CONDITIONS WHICH PRECLUDE COMPLETION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
 - DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO LATEST EDITION OF 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 A992 (FY-50 KSI), UNLESS OTHERWISE NOTED.
 - STEEL PIPE SHALL CONFORM TO ASTM A500, GRADE B. STEEL PIPE DIAMETERS NOTED ON THE DRAWINGS ARE NOMINAL.
 - STRUCTURAL CONNECTION BOLTS SHALL CONFORM TO ASTM A325. ALL BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL HAVE MINIMUM OF TWO BOLTS, UNLESS NOTED OTHERWISE ON THE DRAWINGS. LOCK WASHER ARE NOT PERMITTED FOR A325 STEEL ASSEMBLIES.
 - NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIAMETER GALVANIZED ASTM A 307 BOLTS UNLESS OTHERWISE NOTED.
 - ALL STEEL MATERIAL EXPOSED TO WEATHER SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 'ZINC (HOT-DIPPED GALVANIZED) COATINGS' ON IRON AND STEEL PRODUCTS.
 - ALL BOLTS ANCHORS AND MISCELLANEOUS HARDWARE EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 'ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.'
 - DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED BY UP ALL DAMAGED GALVANIZED STEEL WITH COLD ZINC, 'GALVANOX', 'DRY GALV', 'ZINC IT', OR APPROVED EQUIVALENT, IN ACCORDANCE WITH MANUFACTURERS GUIDELINES. TOUCH UP DAMAGED NON GALVANIZED STEEL WITH SAME PAINT APPLIED IN SHOP OR FIELD.
 - CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, 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 AISC AND 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. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED. SEE NOTE 9.
 - THE ENGINEER SHALL BE NOTIFIED OF ANY INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON CONFORMING MATERIALS OR CONDITIONS TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE ENGINEER REVIEW.
 - APPLY A QUALITY CONCRETE SEALER SUCH AS THEROSEAL TO EXPOSED CONCRETE IN ACCORDANCE WITH MANUFACTURERS APPLICATIONS DIRECTIONS.

SITE NOTES

- ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIAL ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNERS ENGINEER. THE DISCREPANCIES DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
- DAMAGE BY THE CONTRACTOR TO UTILITIES OR PROPERTY OF OTHERS, INCLUDING EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT. FOR GRASSED AREAS, SEED AND MULCH SHALL BE ACCEPTABLE.
- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. IF THE MATERIAL, AFTER REWORKING, REMAINS UNSUITABLE THEN THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL AT HIS EXPENSE. ALL SUBGRADES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED AND REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTABLE BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.
- CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES (NOT SUPPLIED BY OWNER).
- ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTORS RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS (NOT SUPPLIED BY OWNER).
- ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE LATEST APPLICABLE CODES AND STANDARDS.
- THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY, OR CITY) ENGINEER 24 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR CLOSING AND FILING ALL PERMITS ASSOCIATED WITH THE SITE.
- THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT AND TOWER AREAS.
- ALL EXISTING AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO MATCH PRECONSTRUCTION CONDITIONS.
- THE CONTRACTOR SHALL CONTACT 'CALL BEFORE YOU DIG' AT LEAST 48 HOURS PRIOR TO CONSTRUCTION ACTIVITIES COMMENCING.

CONCRETE NOTES & SPECIFICATIONS

CONCRETE

ALL CONCRETE CONSTRUCTION SHALL BE DONE IN ACCORD WITH AMERICAN CONCRETE INSTITUTE (ACI) CODES 301 & 318, LATEST REVISION.

TOWER FOUNDATION WORK SHALL BE IN ACCORDANCE WITH TOWER MANUFACTURERS DESIGNS AND SPECIFICATIONS.

ALL CONCRETE USED SHALL BE 4500 PSI (28 DAY COMP STRENGTH). THE CONCRETE MIX SHALL BE BASED ON USING THE FOLLOWING MATERIALS AND PARAMETERS:
 PORTLAND CEMENT: ASTM C150, TYPE I
 AGGREGATE: ASTM C33, 1 INCH MAX
 WATER: POTABLE
 ADMIXTURE: NON-CHLORIDE
 AIR: 6%
 SLUMP: 4 INCH
 UNLESS NOTED OTHERWISE
 *CONCRETE SUBJECT TO FREEZING AND THAWING SHALL HAVE A MAXIMUM WATER/CEMENT (W/C) RATIO OF 0.45 AND SHALL BE AIR ENTRAINED IN ACCORDANCE WITH IBC 2003 SECTION 1904 DURABILITY REQUIREMENTS.

ALL REINFORCING STEEL SHALL BE ASTM A615, GR 60 (DEFORMED) UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS 'B' AND ALL HOOKS SHALL BE ACI STANDARD UNO. REINFORCING BARS SHALL BE COLD BENT WHERE REQUIRED AND TIED (NOT WELDED).

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.
 #5 AND SMALLER = 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.

A 3/4 IN. CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OR CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

CONCRETE SHALL BE PLACED IN A UNIFORM MANNER AND CONSOLIDATED IN PLACE.

CONCRETE FOOTINGS SHALL BE CAST AGAINST LEVEL, COMPACTED, NON-FROZEN BASE SOIL FREE OF STANDING WATER.

T-MOBILE SITE NUMBER: CTFF632		DEVELOPMENT & MANAGEMENT PLAN		NOTES & SPECIFICATIONS	
APT FILING NUMBER: CT-255T-830		MCM DITTMAR ROAD 4 DITTMAR ROAD REDDING, CT 06896		APT FILING NUMBER: CT-255T-830	
DESIGN TYPE: RAW LAND		REVISIONS:		APT DRAWING NUMBER: CTFF632	
35 GRIFFIN ROAD BLOOMFIELD, CT 06002 OFFICE: (860)-692-7100		REV.1: 11/12/12: FOR REVIEW: SMC		DRAWN BY: SMC	
ALL-POINTS TECHNOLOGY CORPORATION		REV.2: 11/16/12: FOR FILING: SMC		CHECKED BY: SMC	
3 SADDLEBROOK DRIVE KILLINGWORTH, CT 06419 WWW.ALLPOINTSITECH.COM		REV.3: 12/11/12: TOWN'S COMMENTS: SMC		SCALE: AS NOTED	
PHONE: (860)-663-1697 FAX: (860)-663-0935		REV.4: 12/17/12: CSC INTERROGATORIES: SMC		DATE: 03/15/11	
		REV.5: 05-29-13: COW CHANGE: SMC		SHEET NUMBER: N-1	
				