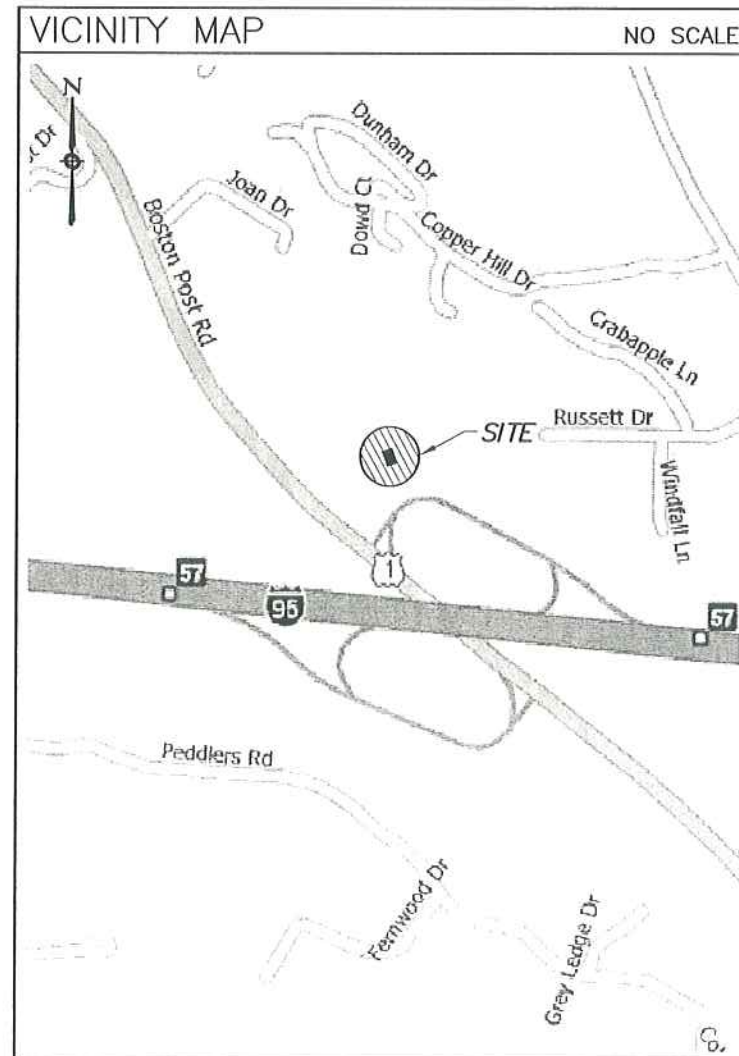


# WIRELESS COMMUNICATIONS FACILITY GUILFORD

## DEVELOPMENT & MANAGEMENT PLAN 1919 BOSTON POST ROAD GUILFORD, CONNECTICUT



PROJECT SUMMARY	
SITE NAME:	GUILFORD
SITE ADDRESS:	1919 BOSTON POST ROAD GUILFORD, CONNECTICUT
JURISDICTION:	CONNECTICUT SITING COUNCIL
GOVERNING CODE:	CONNECTICUT STATE BUILDING AND LIFE SAFETY CODE
MAP:	79
LOT:	35
ZONE:	SCW (SERVICE CENTER WEST ZONING DISTRICT)
OWNER:	C & K REAL ESTATE, LLC
APPLICANT:	GLOBAL SIGNAL
ARCHITECT:	URS CORPORATION A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CT 06067
M/E/P ENGINEER:	URS CORPORATION A.E.S. 500 ENTERPRISE ROCKY HILL, CT 06067
GEODETIC COORDINATES:	LATITUDE 41°-18'-1.2657" LONGITUDE 72°-42'-29.1285"
GROUND ELEVATION:	ELEVATION 98'

LEGEND	
SYMBOL	DESCRIPTION
	SECTION OR DETAIL NUMBER SHEET WHERE DETAIL/SECTION OCCURS
	ELEVATION NUMBER SHEET WHERE ELEVATION OCCURS

ABBREVIATIONS	
MIN.	MINIMUM
V.I.F.	VERIFY IN FIELD
O.C.	ON CENTER
PSF	POUND/SQUARE FOOT
TYP.	TYPICAL
FT.	FEET
SQ.FT.	SQUARE FEET
N/A	NOT APPLICABLE

SHEET INDEX	
SHT. NO.	DESCRIPTION
T-1	TITLE SHEET - GENERAL NOTES AND LEGENDS
C-1	EXISTING SITE PLAN AND SITE WORK GENERAL NOTES
C-2	PROPOSED PARTIAL SITE PLAN
C-3	COMPOUND PLAN
C-4	TOWER ELEVATION
C-5	SITE DETAILS AND NOTES
C-6	CINGULAR WIRELESS EQUIPMENT SHELTER ELEVATIONS AND DETAILS
C-7	VERIZON WIRELESS EQUIPMENT SHELTER ELEVATIONS AND DETAILS
C-8	NEXTEL/SPRINT EQUIPMENT SHELTER ELEVATIONS AND DETAILS
C-9	T-MOBILE EQUIPMENT SECTIONS

A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-866-528-8882



PROJECT NO: 36928481

JOB NO: GS1-001

DRAWN BY: JES

CHECKED BY:

ISSUED FOR	
A	06-11-08 REVIEW
0	07-07-08 D&M
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2	08-11-08 D&M APPROVAL

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GUILFORD

1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

TITLE SHEET-  
GENERAL NOTES  
AND LEGENDS

T-1



**SITework GENERAL NOTES**

1. THE FOLLOWING STANDARD SPECIFICATIONS ARE INCORPORATED INTO THE WORK SHOWN HEREON UNLESS SUPERSEDED BY LOCAL (GUILFORD) REGULATIONS:
  - STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION" FORM B16 ENGLISH & METRIC FORM B16 ORIGINAL
  - FORM B16 SUMMARY OF CHANGES
  - SUPPLEMENT FORM B16 JANUARY 2005
  - SUPPLEMENT FORM B16 JULY 2005
  - DEP BULLETIN 34, CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL DATED 2002.
2. THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENTATION CONTROL MEASURES PRIOR TO ANY GRADING ACTIVITIES.
3. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN SOIL EROSION AND SEDIMENTATION CONTROLS AT ALL TIMES DURING CONSTRUCTION. ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE SUBJECT TO INSPECTION AND MONITORING BY THE TOWN.
4. COORDINATION, LAYOUT AND FURNISHING OF CONDUIT, CABLE AND ALL APPURTENANCES REQUIRED FOR PROPER INSTALLATION OF ELECTRICAL AND TELECOMMUNICATION SERVICE SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL UTILITY WORK SHALL BE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS AND SPECIFICATIONS.
6. IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY CELLULAR CARRIER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK.
7. THE CONTRACTOR SHALL STABILIZE ALL UTILITY LINE TRENCHES WITHIN FIVE WORKING DAYS AFTER EXCAVATION UNLESS OTHERWISE APPROVED BY CELLULAR CARRIER.
8. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO:
  - A) FALL PROTECTION
  - B) CONFINED SPACE
  - C) ELECTRICAL SAFETY
  - D) TRENCHING & EXCAVATION.
9. ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
10. IF NECESSARY, RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
11. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE EQUIPMENT SHELTERS/SLABS AND TOWER AREAS.
12. 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.
13. THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
14. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF ENGINEERING, OWNER AND/OR LOCAL UTILITIES.
15. ALL EXISTING AREAS DISTURBED DUE TO CONSTRUCTION SHALL BE RESTORED TO MATCH PRECONSTRUCTION CONDITIONS.
16. THE EXACT SHELTER FOUNDATION SIZE AND SHELTER FLOOR PENETRATIONS FOR UTILITIES SHALL BE CONFIRMED WITH THE SHELTER SPECIFICATIONS AND PLANS PRIOR TO LAYOUT.
17. COORDINATED CONTROL POINTS TO BE PROVIDED BY URS CORPORATION A.E.S.
18. THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AT LEAST 48 HOURS PRIOR TO ANY EXCAVATIONS TO VERIFY AND IDENTIFY THE EXACT LOCATIONS OF ALL UNDERGROUND UTILITIES AND OBSTRUCTIONS PRIOR TO COMMENCING WORK IN THE CONTRACT AREA.

19. SUB-CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
20. DURING CONSTRUCTION, LARGE OBJECTS SUCH AS LOGS AND MOVEABLE ROCKS SHALL BE MOVED OUT OF THE WAY OF HEAVY MACHINERY TO MINIMIZE ANY POTENTIAL HARM TO HOGNOSE SNAKES THAT MIGHT BE IN THE AREA.

**SEDIMENTATION CONTROL FENCE SPECIFICATIONS**

- MAINTENANCE**
1. 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.
  2. 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.
  3. 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.
  4. 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.

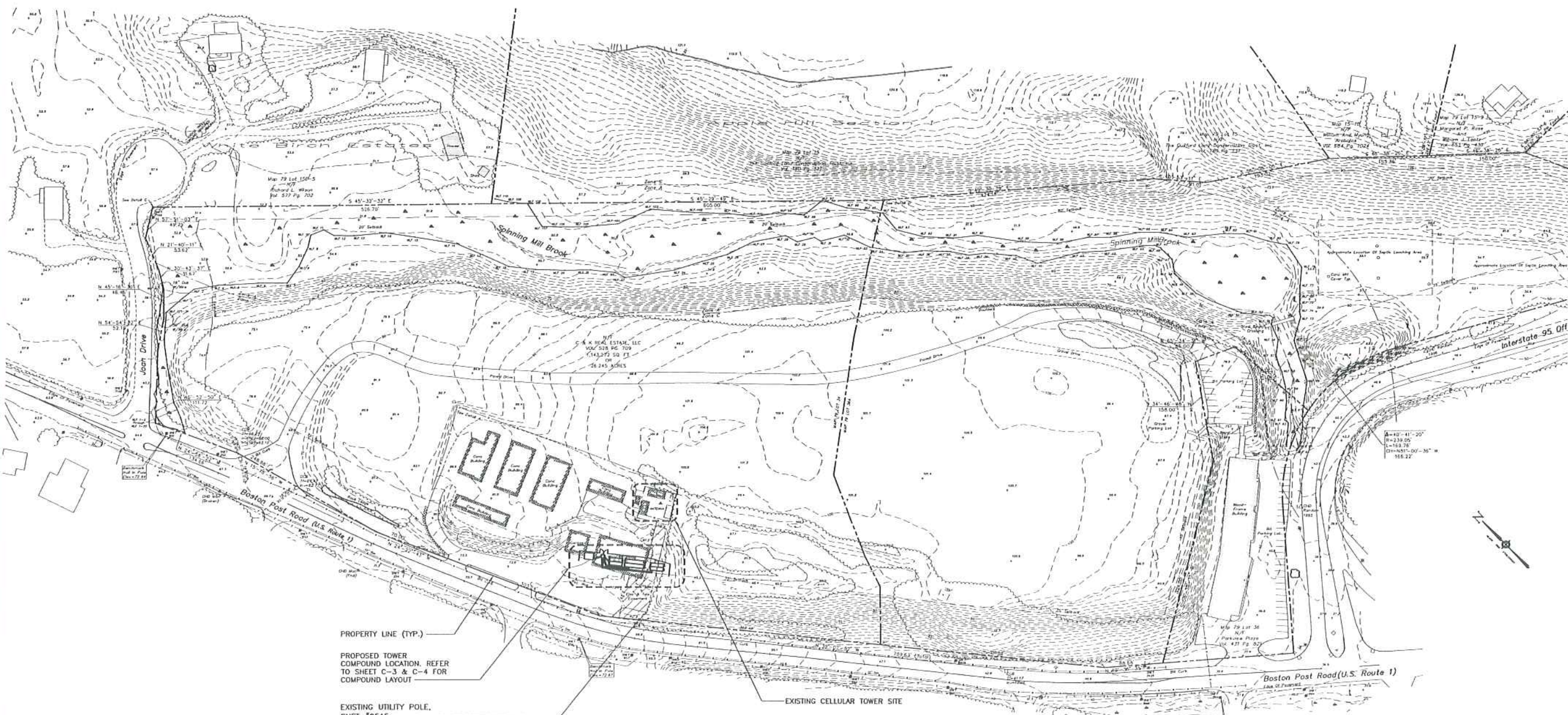
**CONSTRUCTION SEQUENCE**

1. THE GEOTEXTILE FABRIC SHALL MEET THE DESIGN CRITERIA FOR SILT FENCES
2. THE FABRIC SHALL BE EMBEDDED A MINIMUM OF 8 INCHES INTO THE GROUND AND THE SOIL COMPACTED OVER THE EMBEDDED FABRIC.
3. WOVEN WIRE FENCES SHALL BE FASTENED SECURELY TO THE FENCE POSTS WITH WIRE TIES OR STAPLES.
4. FILTER CLOTH SHALL BE FASTENED SECURELY TO THE WOVEN WIRE FENCE WITH TIES SPACED EVERY 24 INCHES AT THE TOP, MID-SECTION, AND BOTTOM.

5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 6 INCHES, FOLDED AND STAPLED.
6. FENCE POSTS SHALL BE A MINIMUM OF 36 INCHES LONG AND DRIVEN A MINIMUM OF 16 INCHES INTO THE GROUND. WOOD POSTS SHALL BE OF SOUND QUALITY HARDWOOD AND SHALL HAVE A MINIMUM CROSS SECTIONAL AREA OF 3.0 SQUARE INCHES.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED TO PREVENT BULGES IN THE SILT FENCE DUE TO DEPOSITION OF SEDIMENT.

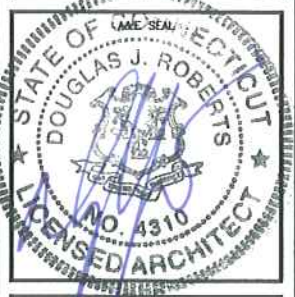
**EROSION CONTROL NOTES**

1. DURING CONSTRUCTION AND THEREAFTER EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED AS NOTED. NOT GREATER THAN 80,000 SQ. FT. 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 90 DAYS. LAND SHOULD NOT BE LEFT EXPOSED DURING THE WINTER MONTHS.
2. SILTATION FENCING SHALL BE INSTALLED WHERE SHOWN PRIOR TO ANY ON SITE GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. IT SHOULD BE MAINTAINED DURING AND AFTER DEVELOPMENT TO REMOVE SEDIMENT FROM RUNOFF WATER AND FROM LAND UNDERGOING DEVELOPMENT, WHERE POSSIBLE NATURAL DRAINAGE-WAYS SHOULD BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
3. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE LOAMED AND SEEDED. A MINIMUM OF 4" OF LOAM SHALL BE INSTALLED.
4. ANY DISTURBED AREAS WHICH ARE TO BE LEFT TEMPORARILY, AND WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MACHINE HAY MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT A RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOILED, AIR-DRIED, AND FREE FROM WEED, SEEDS AND ANY COARSE MATERIAL.



**1 EXISTING SITE PLAN**  
C-1 SCALE: 1"=80'-0"

AAE FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(860)-529-8882



PROJECT NO: 36928481

JOB NO: GS1-001

DRAWN BY: JES

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**ISSUED FOR**

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**GUILFORD**  
1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

**EXISTING SITE PLAN AND SITE WORK GENERAL NOTES**

**C-1**



LEGEND		
DESCRIPTION	EXISTING	PROPOSED
PROPERTY LINE	---	---X---
CHAIN LINK FENCE	---	---X---
CONTOUR LINES	---485---	---
UNDERGROUND UTILITIES	---	---E/T---
UTILITY POLE	---	---
TREE LINE	---	---
SEDIMENTATION FENCE	---	---//---
SPOT ELEVATION	x 231.5	---

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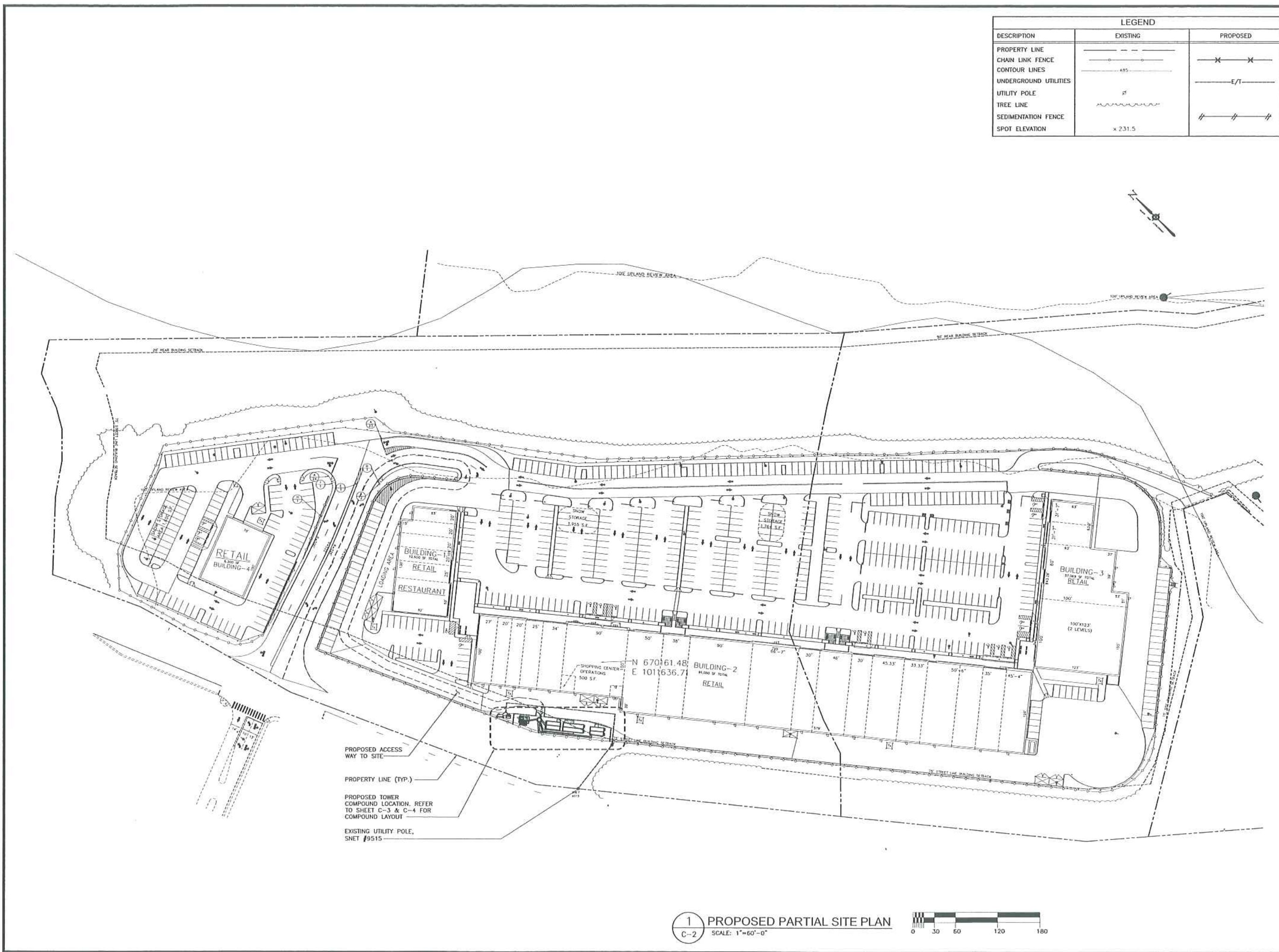
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**GUILFORD**  
 1919 BOSTON POST ROAD  
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SCALE: AS NOTED

**PROPOSED PARTIAL SITE PLAN**

**C-2**



**1 PROPOSED PARTIAL SITE PLAN**  
 C-2 SCALE: 1"=60'-0"





PROPOSED ACCESS WAY TO SITE IN PAVED AREA (BY OTHERS)

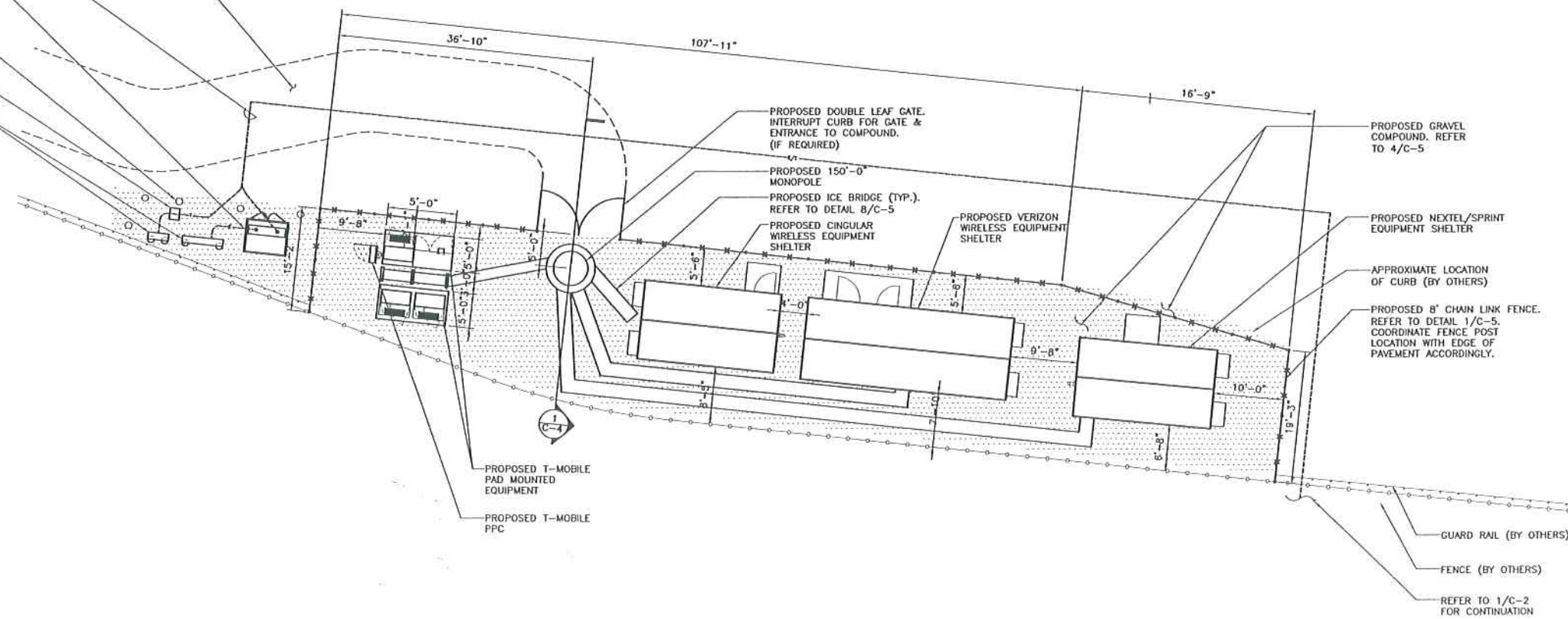
PROPOSED ROUTE OF UNDERGROUND ELECTRIC AND TELEPHONE. REFER TO 7/C-5 FOR TRENCHING

PROPOSED PAD MOUNTED TRANSFORMER (BY UTILITY COMPANY)

PROPOSED BOLLARD (TYP. OF 6). REFER TO 6/C-5

PROPOSED TELCO PEDESTAL (BY UTILITY COMPANY)

PROPOSED MULTI-METER CENTER AND PROPOSED TELCO ENCLOSURE ON SUPPORTS. REFER TO 3/C-5



PROPOSED DOUBLE LEAF GATE. INTERRUPT CURB FOR GATE & ENTRANCE TO COMPOUND. (IF REQUIRED)

PROPOSED 150'-0" MONOPOLE

PROPOSED ICE BRIDGE (TYP.). REFER TO DETAIL 8/C-5

PROPOSED CINGULAR WIRELESS EQUIPMENT SHELTER

PROPOSED VERIZON WIRELESS EQUIPMENT SHELTER

PROPOSED GRAVEL COMPOUND. REFER TO 4/C-5

PROPOSED NEXTEL/SPRINT EQUIPMENT SHELTER

APPROXIMATE LOCATION OF CURB (BY OTHERS)

PROPOSED 8' CHAIN LINK FENCE. REFER TO DETAIL 1/C-5. COORDINATE FENCE POST LOCATION WITH EDGE OF PAVEMENT ACCORDINGLY.

PROPOSED T-MOBILE PAD MOUNTED EQUIPMENT

PROPOSED T-MOBILE PPC

GUARD RAIL (BY OTHERS)

FENCE (BY OTHERS)

REFER TO 1/C-2 FOR CONTINUATION

1 COMPOUND PLAN  
C-3 SCALE: 1"=10'-0"  
0 5 10 10 15

A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-800-829-8882



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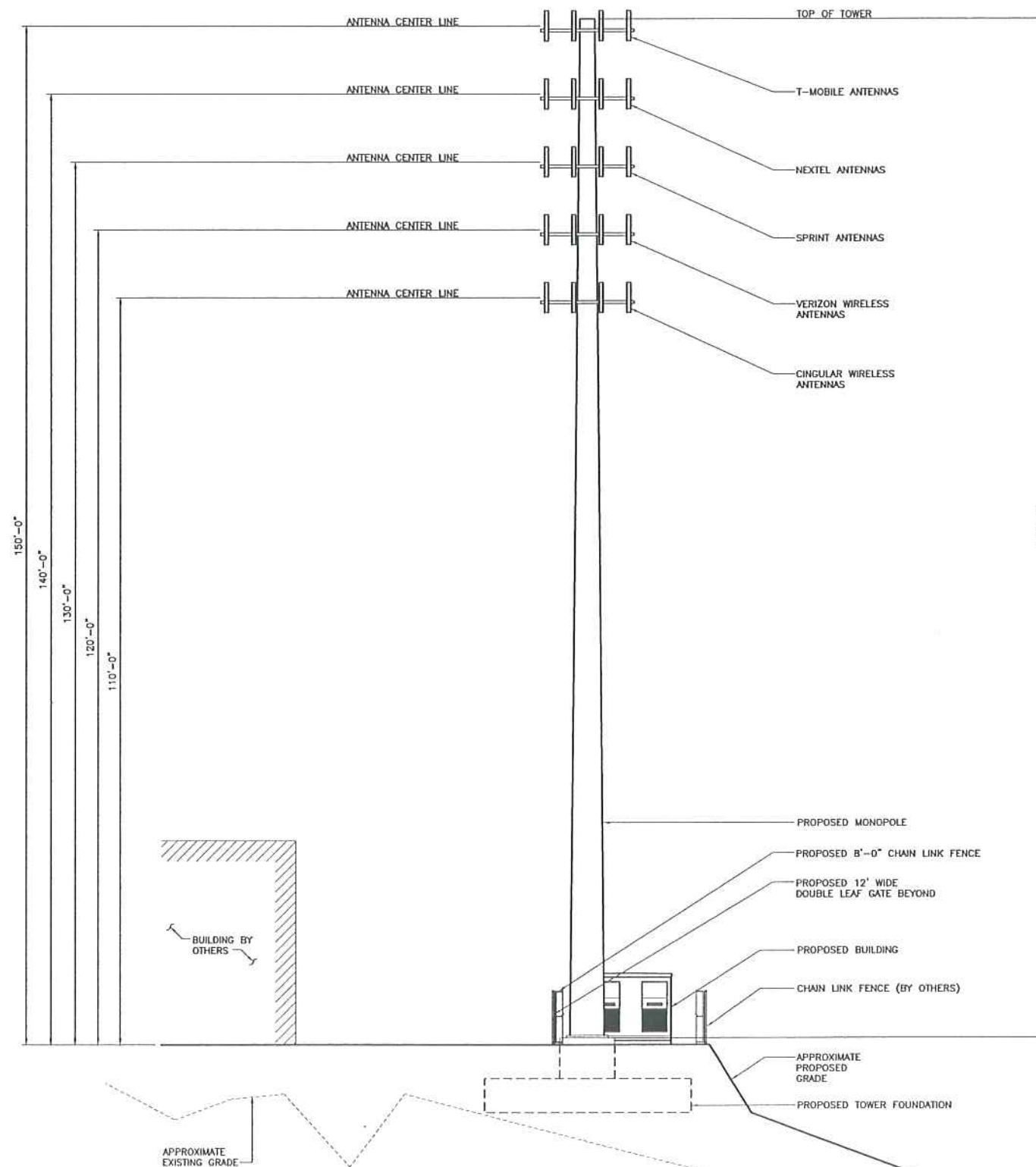
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**GUILFORD**  
1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

COMPOUND PLAN

C-3



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SCALE: AS NOTED

**TOWER ELEVATION**

**C-4**

**1 TOWER ELEVATION**  
 C-4 SCALE: 1" = 10'-0"



**GENERAL NOTES**

- SOIL**
- SOIL BEARING CAPACITY OF 3,000 PSF USED FOR FOUNDATION DESIGN. GENERAL CONTRACTOR RESPONSIBLE FOR VERIFYING BEARING CAPACITIES.
  - ALL SURFACES MUST BE FREE OF STANDING WATER PRIOR TO PLACING CONCRETE.
  - COMPACTED GRAVEL FILL PER CONNECTICUT DOT STANDARD SPEC. SECTION M.02.01 AND ASTM D1557.
  - CONTACT THE ENGINEER IF GROUND WATER IS ENCOUNTERED AND DEWATERING IS REQUIRED.

- CONCRETE**
- ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301, ACI 318 AND THE SPECIFICATION CAST-IN-PLACE CONCRETE.
  - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE. CONCRETE SHALL BE AIR ENTRAINED TO (4% TO 6%) AND SLUMP OF 3" TO 5".
  - REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD, UNO.
  - 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 & WWF .....1 1/2 IN.  
 CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND:  
 SLAB AND WALL .....3/4 IN.  
 BEAMS AND COLUMNS .....1 1/2 IN.

- A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, UNO, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
- INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.
- COLD WEATHER CONCRETE PLACING SHALL BE IN ACCORDANCE WITH ACI-306.
- NO FOOTING SHALL BE PLACED ON FROZEN GROUND. UNCURED CONCRETE SHALL BE PROTECTED AGAINST FROST.
- APPLY NON-SLIP BROOM FINISH IMMEDIATELY AFTER TROWEL FINISHING.

**STRUCTURAL STEEL**

- MATERIALS**  
 STRUCTURAL STEEL, PLATES, ANGLES ASTM A572 GRADE 50  
 PIPE COLUMNS ASTM A53 GRADE B  
 TUBE COLUMNS F=46.KSI ASTM A500  
 BOLTS ASTM A325  
 WELDING ELECTRODE ASTM E 70  
 ANCHOR BOLTS ASTM A307
- STRUCTURAL STEEL SHALL CONFORM TO THE CURRENT "AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AND THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- ALL WELDING SHALL BE DONE BY A CERTIFIED WELDER IN ACCORDANCE WITH A.W.S. STANDARDS.

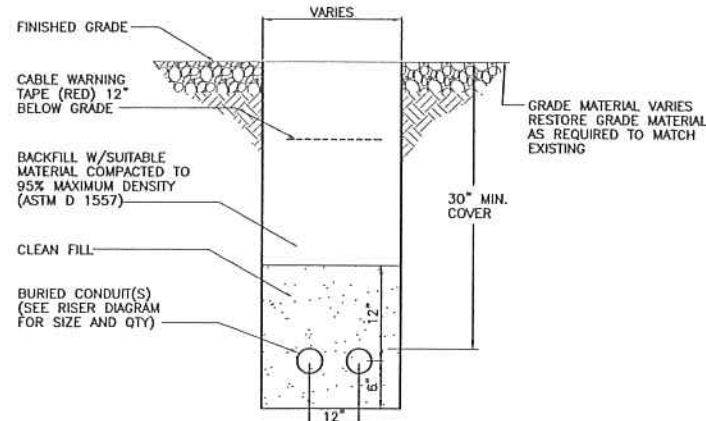
**DESIGN LOAD CRITERIA**

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:	
IMPORTANCE CATEGORY	III
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR (Is)	1.2
EXPOSURE FACTOR (Ce)	.9
THERMAL FACTOR (Ct)	1.0
WIND LOAD:	
BASIC WIND LOAD	110 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR (Iw)	1.15
SHELTER LOAD:	
FLOOR LIVE LOAD INCLUDING EQUIPMENT:	150 PSF
EQUIPMENT SHELTER DL:	46,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (Sa)	0.273
MCE SPECTRAL ACCELERATION SHORT (Sv)	0.081
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR (Iv)	1.5

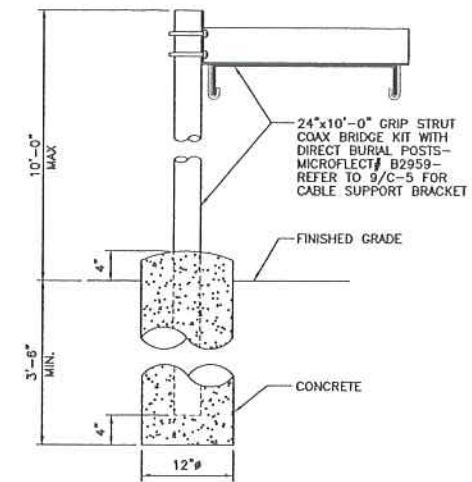
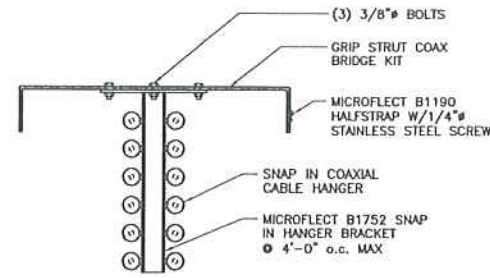
**NOTES:**

- THE CLEAN FILL SHALL PASS THROUGH A 3/8" MESH SCREEN AND SHALL NOT CONTAIN SHARP STONES. OTHER BACKFILL SHALL NOT CONTAIN ASHES, CINDERS, SHELLS, FROZEN MATERIAL, LOOSE DEBRIS OR STONES LARGER THAN 2" IN MAXIMUM DIMENSION. THE TRENCH SHALL BE BACKFILLED IMMEDIATELY FOLLOWING PLACEMENT OF THE CONDUITS.
- WHERE EXISTING UTILITIES ARE LIKELY TO BE ENCOUNTERED, CONTRACTOR SHALL HAND DIG AND PROTECT EXISTING UTILITIES.



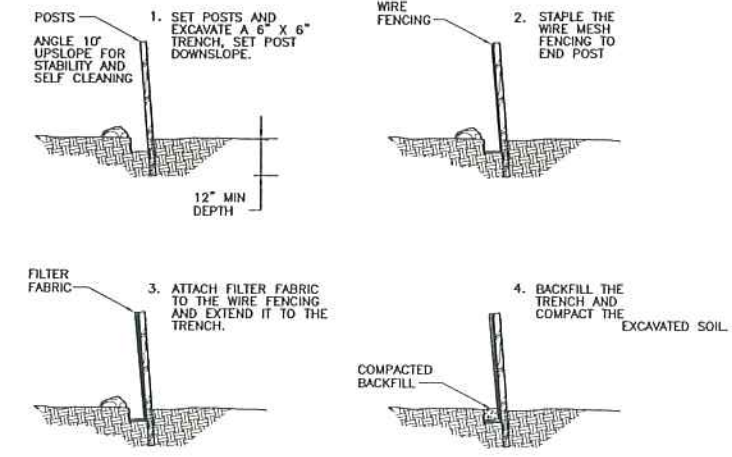
**7 TYPICAL ELECTRICAL/ TELEPHONE TRENCH DETAIL**  
 C-5 SCALE: N.T.S.

**9 CABLE SUPPORT DETAIL**  
 C-5 SCALE: 1 1/2" = 1'-0"



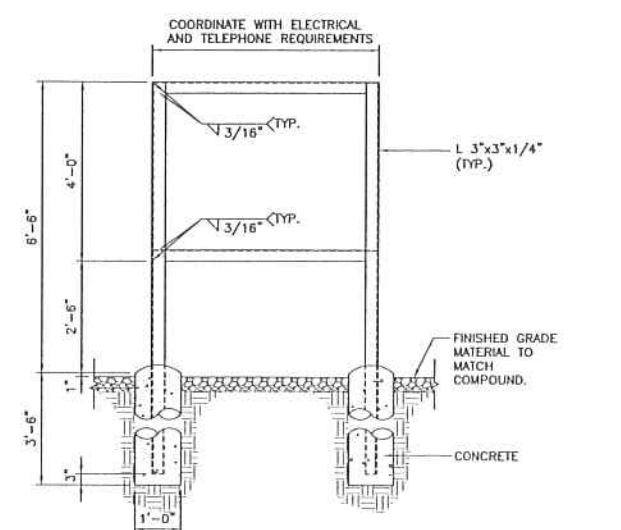
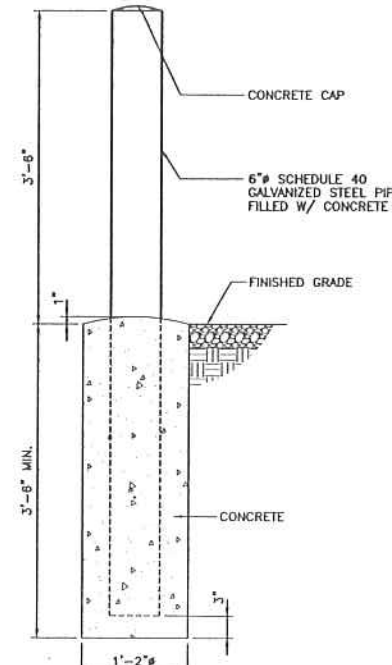
**NOTE:**  
 1. MAXIMUM 10' SPACING BETWEEN POST SUPPORTS  
 2. 2 POSTS REQUIRED

**8 ICE BRIDGE DETAIL**  
 C-5 SCALE: 1" = 1'-0"

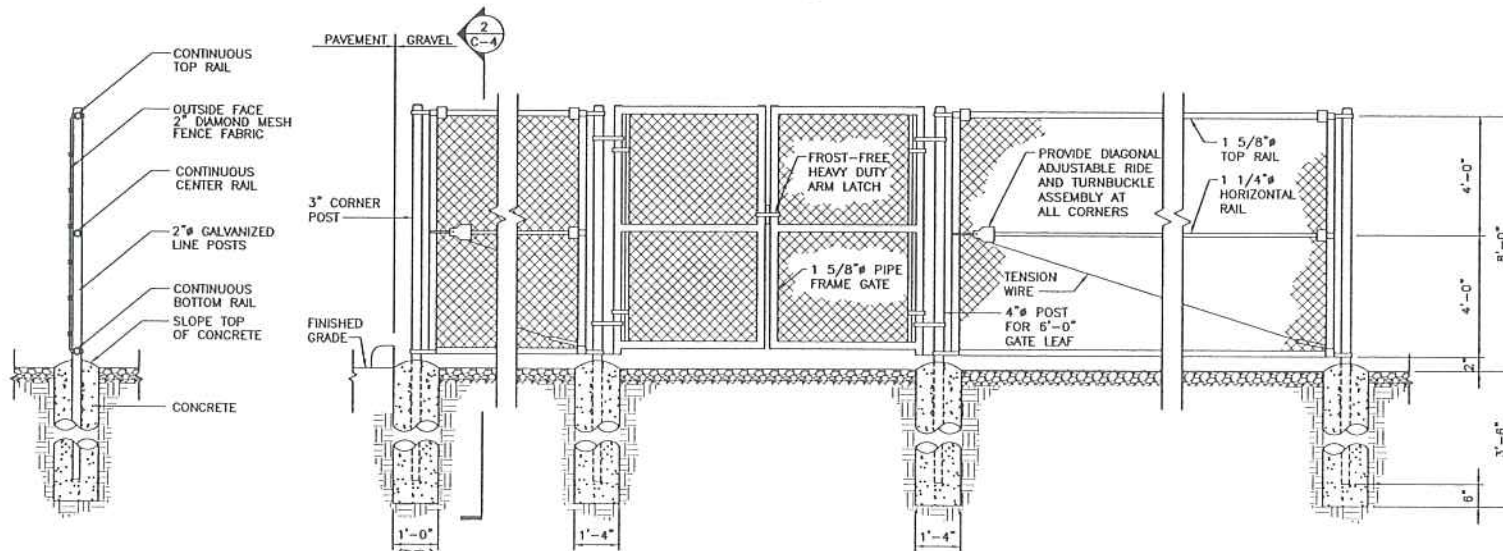


**5 SEDIMENTATION CONTROL BARRIER - SILT FENCE**  
 C-5 SCALE: N.T.S.

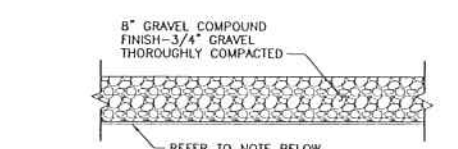
**6 BOLLARD DETAIL**  
 C-5 SCALE: 1" = 1'-0"



**3 ELECTRIC AND TELCO SERVICE FRAME DETAIL**  
 C-5 SCALE: 1/2" = 1'-0"



**2 TYPICAL FENCE DETAIL - SECTION**  
 C-5 SCALE: 1/2" = 1'-0"



**NOTE:**  
 THE SHADED AREA WITHIN THE FENCED COMPOUND, 1' MIN. BEYOND THE FENCE AS FOLLOWS:  
 -ALL EXISTING PAVEMENT, BRUSH, GRASS, TOP SOIL, ROCKS, DEBRIS, ETC. SHALL BE CLEARED FROM THE DESIGNATED AREA TO A DEPTH OF 8". WOVEN GEOTEXTILE FABRIC (AMCO 2002 OR APPROVED EQUAL) SHALL BE PUT DOWN AND ROLLED GRAVEL BASE COURSE SHALL THEN BE PLACED TO A MINIMUM OF 8". THE ACCESS DRIVE SHALL BE TREATED AS NOTED ON DETAIL 7/C-5.

**4 GRAVEL COMPOUND DETAIL**  
 C-5 SCALE: N.T.S.

**1 TYPICAL FENCE DETAIL**  
 C-5 SCALE: 1/2" = 1'-0"



A/E FIRM  
**URS CORPORATION AES**  
 500 ENTERPRISE DRIVE  
 ROCKY HILL, CONNECTICUT  
 1-(866)-529-8882

PROJECT NO: 36928481

JOB NO: GS1-001

DRAWN BY: JES

CHECKED BY:

ISSUED FOR

A	06-11-08	REVIEW
0	07-07-08	D&M
1	07-22-08	REVISED D&M
2	08-11-08	D&M APPROVAL

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**GUILFORD**  
 1919 BOSTON POST ROAD  
 GUILFORD, CONNECTICUT

SCALE: AS NOTED

**SITE DETAILS AND NOTES**

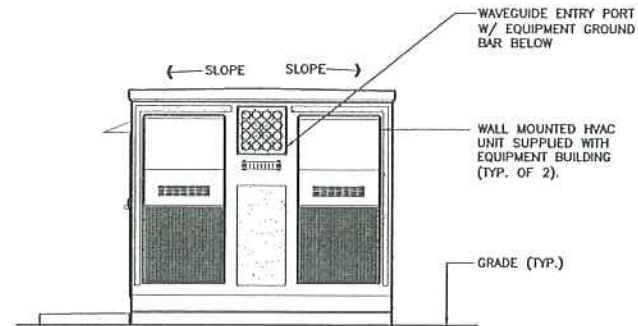
**C-5**



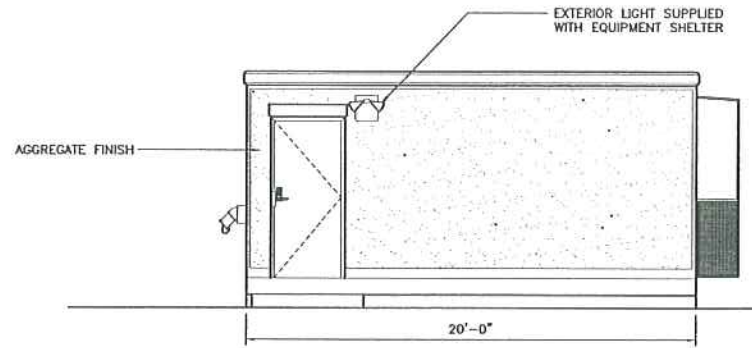
# DESIGN LOAD CRITERIA

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

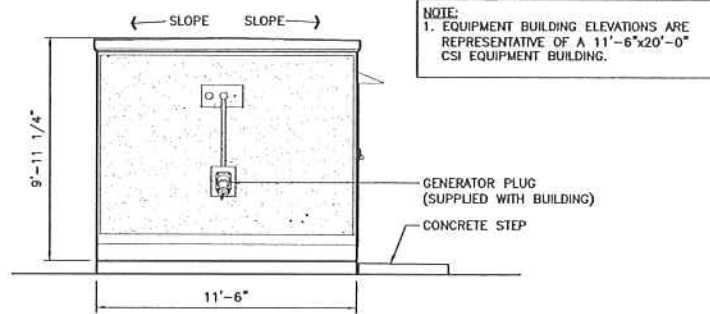
DESIGN BASIS	CONNECTICUT
GOVERNING CODE	STATE BUILDING CODE
DESIGN LIVE LOADS:	
IMPORTANCE CATEGORY	III
SNOW LOAD:	
GROUND SNOW LOAD (P <sub>g</sub> )	30 PSF
IMPORTANCE FACTOR (I <sub>s</sub> )	1.2
EXPOSURE FACTOR (C <sub>e</sub> )	.9
THERMAL FACTOR (C <sub>t</sub> )	1.0
WIND LOAD:	
BASIC WIND LOAD	110 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR (I <sub>w</sub> )	1.15
SHELTER LOAD:	
FLOOR LIVE LOAD INCLUDING EQUIPMENT:	150 PSF
EQUIPMENT SHELTER DL:	48,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (S <sub>s</sub> )	0.273
MCE SPECTRAL ACCELERATION SHORT (S <sub>1</sub> )	0.081
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR (I <sub>e</sub> )	1.5



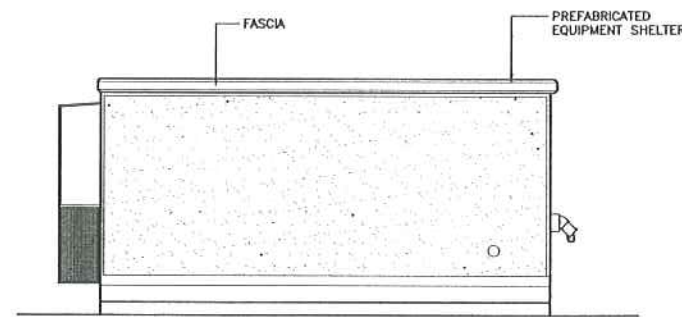
**10 WEST ELEVATION**  
C-6 SCALE: 1/4" = 1'-0"



**9 NORTH ELEVATION**  
C-6 SCALE: 1/4" = 1'-0"



**8 EAST ELEVATION**  
C-6 SCALE: 1/4" = 1'-0"

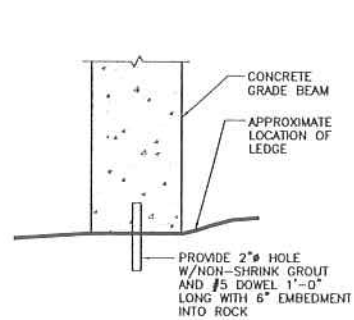


**7 SOUTH ELEVATION**  
C-6 SCALE: 1/4" = 1'-0"

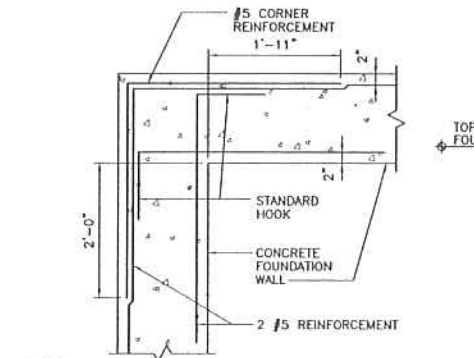


**6 EQUIPMENT FLOOR PLAN**  
C-6 SCALE: 1/4" = 1'-0"

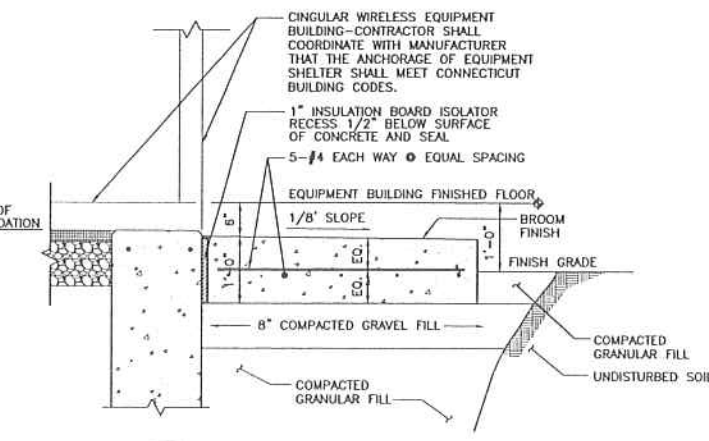
NOTE:  
FOUNDATION DESIGN SHOWN HERE IN ARE GENERIC AND MAY BE SUBJECT TO CHANGE UPON COMPLETION OF GEOTECHNICAL WORK.



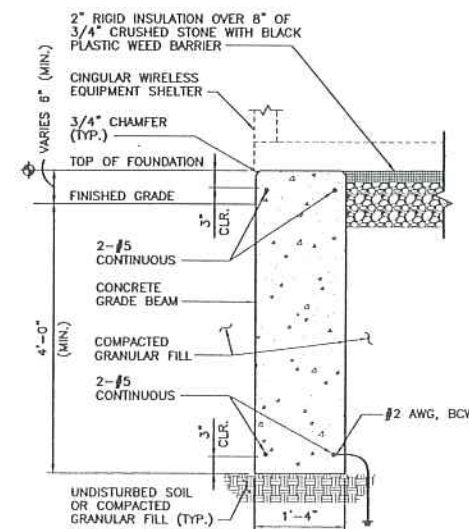
**5 PINNED FOUNDATION**  
C-6 SCALE: 3/4" = 1'-0"



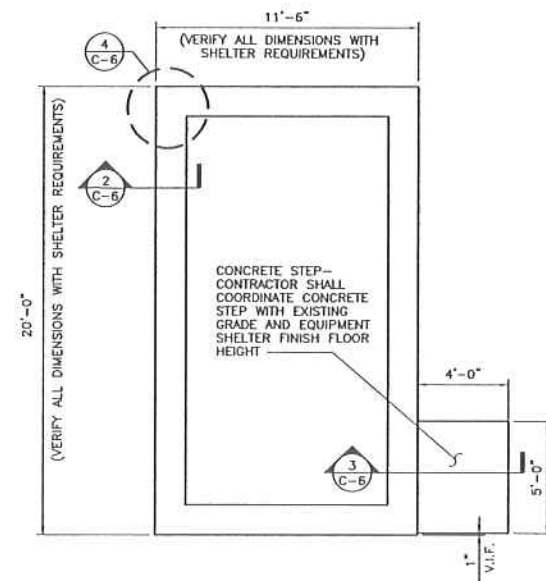
**4 FOUNDATION CORNER DETAIL**  
C-6 SCALE: N.T.S.



**3 CONCRETE STEP SECTION**  
C-6 SCALE: 3/4" = 1'-0"



**2 FOUNDATION SECTION**  
C-6 SCALE: 3/4" = 1'-0"



**1 FOUNDATION PLAN**  
C-6 SCALE: 1/4" = 1'-0"

A/E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(866)-529-8882



PROJECT NO: 36928481  
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DRAWN BY: JES  
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GUILFORD  
1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

CINGULAR WIRELESS EQUIPMENT SHELTER ELEVATIONS AND DETAILS

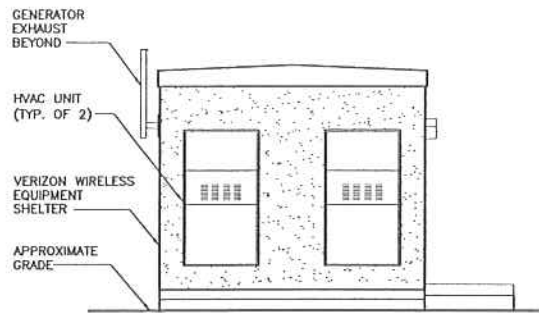
C-6



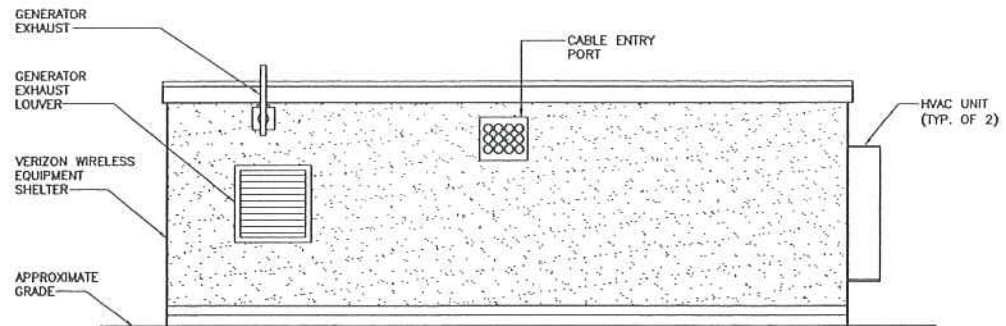
**DESIGN LOAD CRITERIA**

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

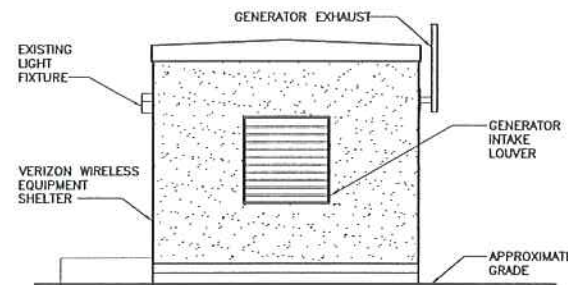
DESIGN BASIS	CONNECTICUT
GOVERNING CODE	STATE BUILDING CODE
DESIGN LIVE LOADS:	
IMPORTANCE CATEGORY	II
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	30 PSF
IMPORTANCE FACTOR (I <sub>s</sub> )	1.2
EXPOSURE FACTOR (C <sub>e</sub> )	.9
THERMAL FACTOR (C <sub>t</sub> )	1.0
WIND LOAD:	
BASIC WIND LOAD	110 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR (I <sub>w</sub> )	1.15
SHELTER LOAD:	
FLOOR LIVE LOAD INCLUDING EQUIPMENT:	150 PSF
EQUIPMENT SHELTER DL:	52,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (S <sub>0</sub> )	0.273
MCE SPECTRAL ACCELERATION SHORT (S <sub>1</sub> )	0.081
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR (I <sub>e</sub> )	1.5



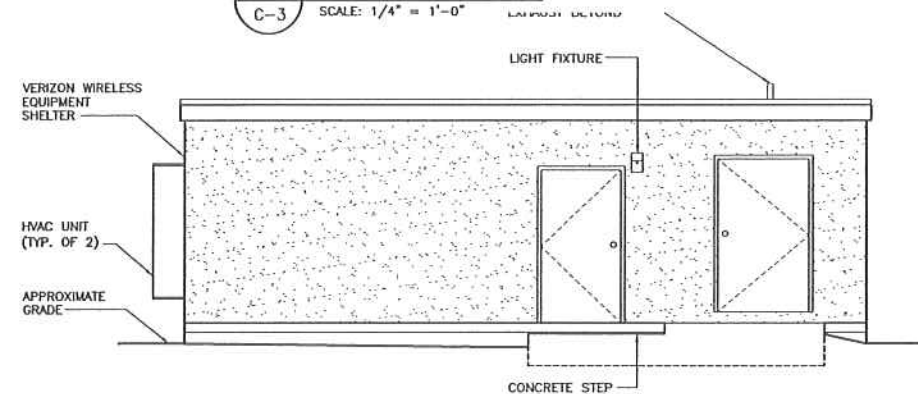
**10 SOUTH ELEVATION**  
C-3 SCALE: 1/4" = 1'-0"



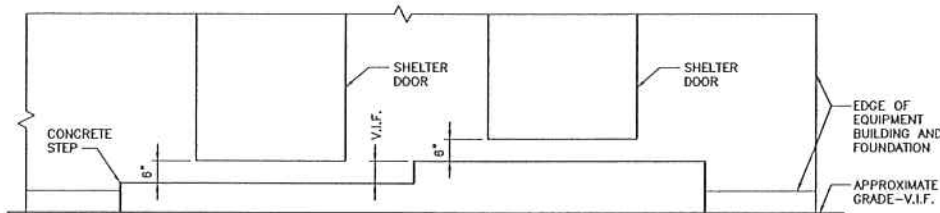
**9 WEST ELEVATION**  
C-3 SCALE: 1/4" = 1'-0"



**8 NORTH ELEVATION**  
C-3 SCALE: 1/4" = 1'-0"

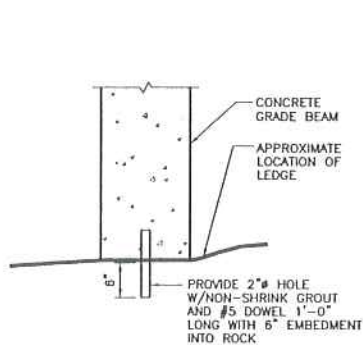


**7 EAST ELEVATION**  
C-3 SCALE: 1/4" = 1'-0"

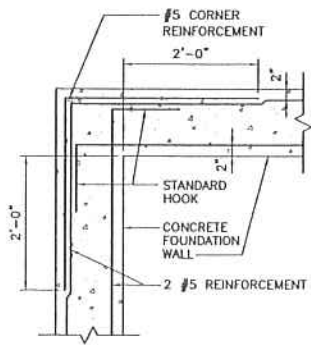


**6 CONCRETE STEP DETAIL**  
C-3 SCALE: N.T.S.

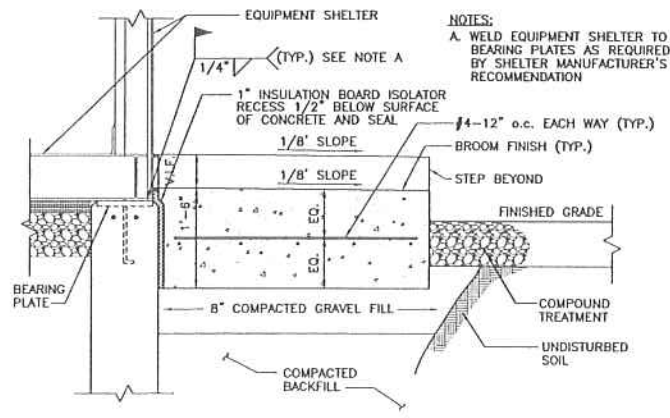
NOTE: FOUNDATION DESIGN SHOWN HERE IN ARE GENERIC AND MAY BE SUBJECT TO CHANGE UPON COMPLETION OF GEOTECHNICAL WORK.



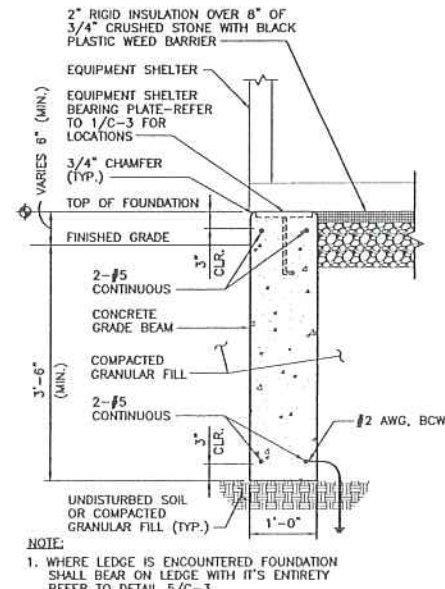
**5 PINNED FOUNDATION**  
C-3 SCALE: 3/4" = 1'-0"



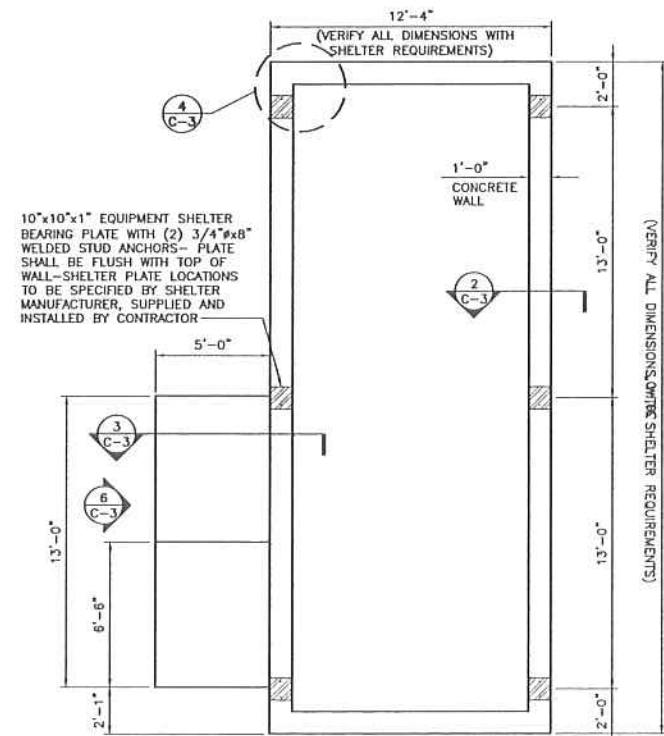
**4 FOUNDATION CORNER**  
C-3 SCALE: 3/4" = 1'-0"



**3 CONCRETE STEP DETAIL**  
C-3 SCALE: 3/4" = 1'-0"



**2 FOUNDATION SECTION**  
C-3 SCALE: 3/4" = 1'-0"



**1 FOUNDATION PLAN**  
C-3 SCALE: 1/4" = 1'-0"

A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(888)-528-8882



PROJECT NO: 36928481

JOB NO: GS1-001

DRAWN BY: JES/RRH

CHECKED BY:

ISSUED FOR

A	06-11-08	REVIEW
D	07-07-08	D&M
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GUILFORD

1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

VERIZON WIRELESS  
EQUIPMENT SHELTER  
ELEVATIONS AND  
SITE DETAILS



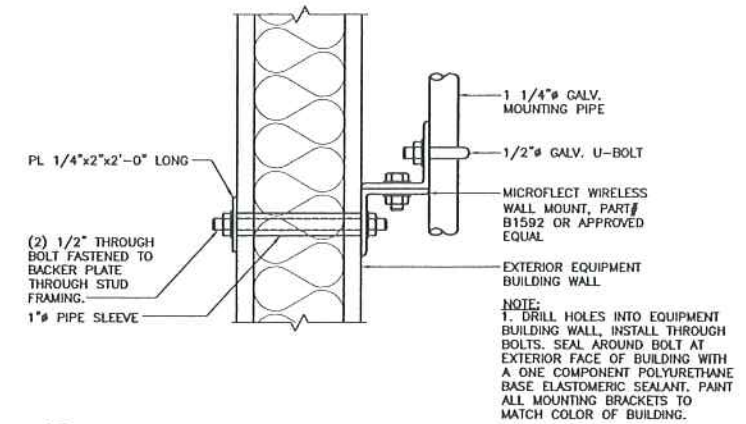
**DESIGN LOAD CRITERIA**

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
IMPORTANCE CATEGORY	III
SNOW LOAD:	30 PSF
GROUND SNOW LOAD (P <sub>g</sub> )	1.2
IMPORTANCE FACTOR (I <sub>s</sub> )	.9
EXPOSURE FACTOR (C <sub>e</sub> )	1.0
THERMAL FACTOR (C <sub>t</sub> )	
WIND LOAD:	110 MPH (3 SECOND GUST)
BASIC WIND LOAD	C
EXPOSURE GROUP	1.15
IMPORTANCE FACTOR (I <sub>w</sub> )	
SHELTER LOAD:	150 PSF
FLOOR LIVE LOAD INCLUDING EQUIPMENT:	58,000 LBS
EQUIPMENT SHELTER DL (W/OUT EQUIPMENT):	68,000 LBS
EQUIPMENT SHELTER DL (W/ EQUIPMENT):	
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT (S <sub>a</sub> )	0.273
MCE SPECTRAL ACCELERATION SHORT (S <sub>1</sub> )	0.081
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR (I <sub>s</sub> )	1.5

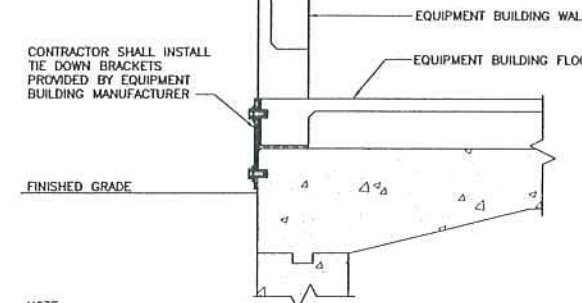
**GPS ANTENNA MOUNTING NOTES:**

1. THE ELEVATION AND LOCATION OF THE GPS ANTENNA SHALL BE IN ACCORDANCE WITH THE FINAL RF REPORT.
2. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1-1/4" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES) USING A HAND OR ROTARY PIPE CUTTER TO ASSURE A SMOOTH AND PERPENDICULAR CUT. A HACK SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED AND SMOOTH IN ORDER TO SEAL AGAINST THE NEOPRENE GASKET ATTACHED TO THE ANTENNA MOUNT.
3. THE MOUNTING BRACKET SHALL BE MICROFLECT PART # B1592 AS SHOWN OR APPROVED EQUAL AND ATTACHED TO THE APPROPRIATE SUPPORT STRUCTURE USING U-BOLTS. THE SUPPORT PIPE SHALL THEN BE ATTACHED TO THE MOUNTING PLATE USING THE U-BOLTS PROVIDED TO ALLOW ADJUSTMENT. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.



**8 GPS MOUNTING BRACKET DETAIL**

C-8 SCALE: N.T.S.



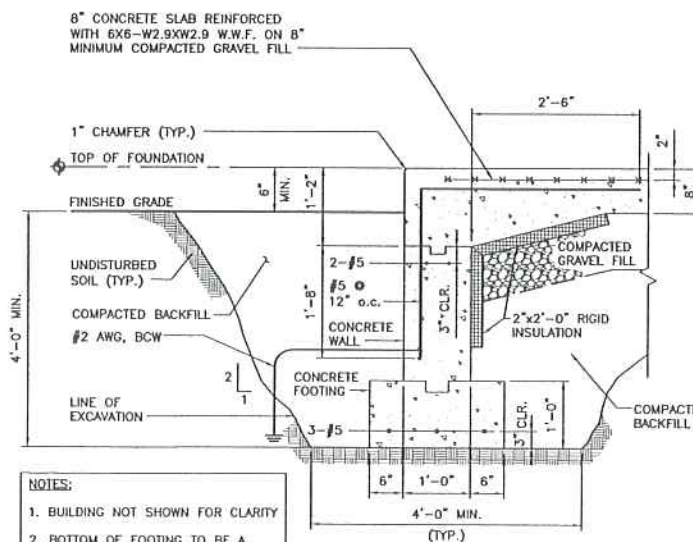
NOTE: COORDINATE WITH BUILDING MANUFACTURER FOR THE TIE DOWN BRACKET DETAIL AND LOCATIONS

**6 BUILDING TIE DOWN DETAIL**

C-8 SCALE: N.T.S.

**7 GPS ANTENNA MOUNTING DETAIL**

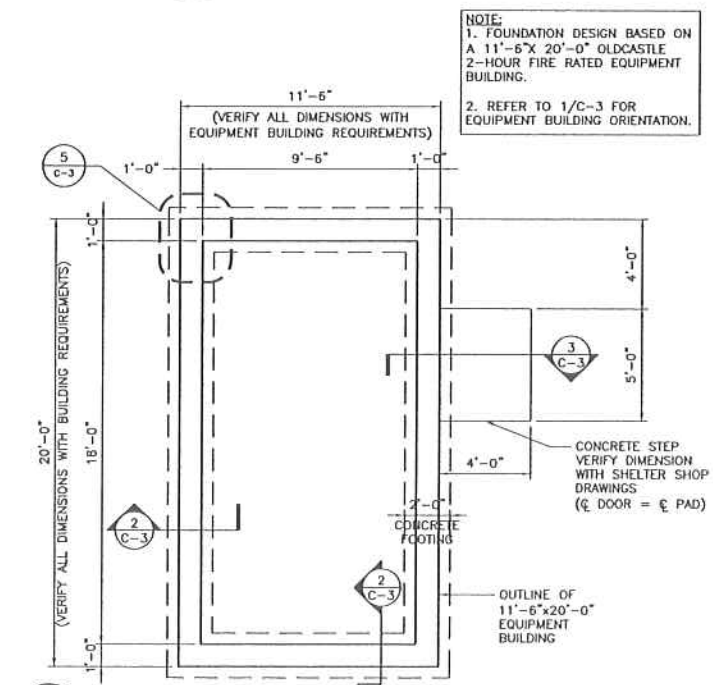
C-8 SCALE: N.T.S.



NOTES:  
1. BUILDING NOT SHOWN FOR CLARITY  
2. BOTTOM OF FOOTING TO BE A MINIMUM OF 4'-0" BELOW FINISH GRADE. IF LEDGE IS ENCOUNTERED REFER TO DETAIL 4/C-3.

**2 FOUNDATION SECTION**

C-8 SCALE: 3/4"=1'-0"



**1 EQUIPMENT BUILDING FOUNDATION PLAN**

C-8 SCALE: 1/4"=1'-0"

NOTE:  
1. FOUNDATION DESIGN BASED ON A 11'-6" X 20'-0" OLDCASTLE 2-HOUR FIRE RATED EQUIPMENT BUILDING.  
2. REFER TO 1/C-3 FOR EQUIPMENT BUILDING ORIENTATION.



A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
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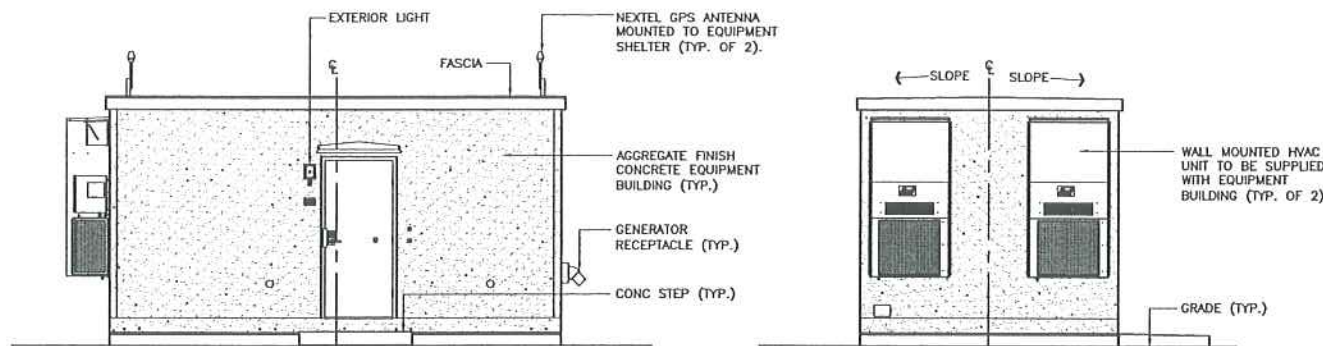
**GUILFORD**

1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

**NEXTEL/SPRINT  
EQUIPMENT SHELTER  
ELEVATIONS AND  
SITE DETAILS**

**C-8**

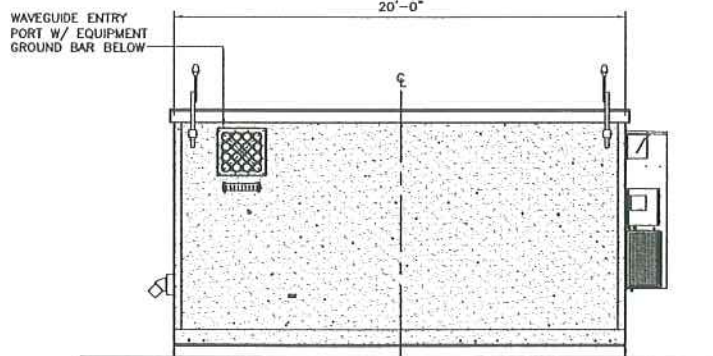


**12 EAST ELEVATION**

C-8 SCALE: 1/4"=1'-0"

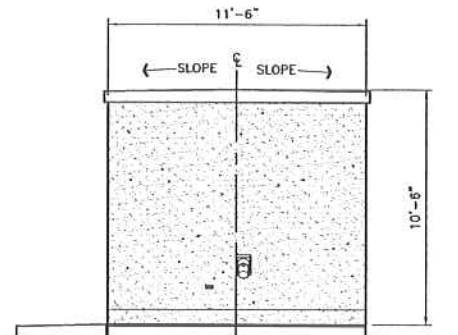
**11 SOUTH ELEVATION**

C-8 SCALE: 1/4"=1'-0"



**10 WEST ELEVATION**

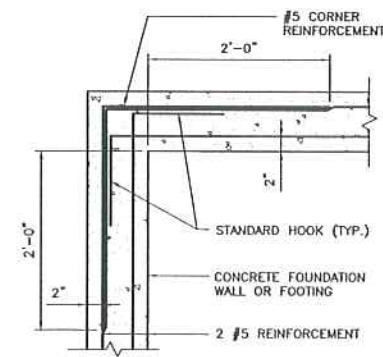
C-8 SCALE: 1/4"=1'-0"



**9 NORTH ELEVATION**

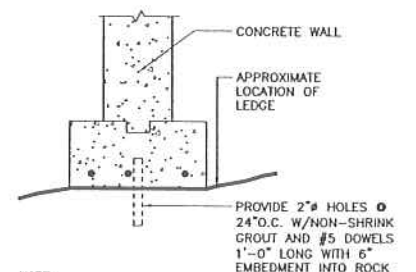
C-8 SCALE: 1/4"=1'-0"

NOTE:  
EQUIPMENT BUILDING ELEVATIONS ARE REPRESENTATIVE OF A 11'-6" X 20'-0" OLDCASTLE 2-HOUR FIRE RATED EQUIPMENT BUILDING.



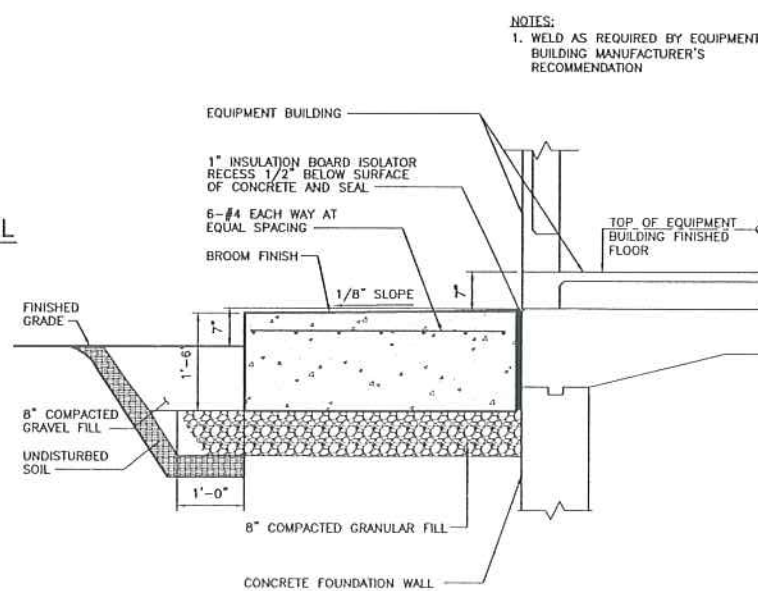
**5 FOUNDATION CORNER DETAIL**

C-8 SCALE: N.T.S.



**4 PINNED FOUNDATION DETAIL**

C-8 SCALE: N.T.S.



**3 CONCRETE STEP DETAIL**

C-8 SCALE: 3/4"=1'-0"

NOTES:  
1. WELD AS REQUIRED BY EQUIPMENT BUILDING MANUFACTURER'S RECOMMENDATION

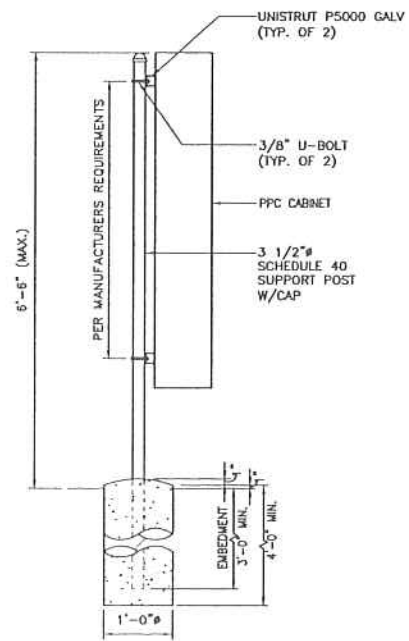
NOTE:  
CONTRACTOR SHALL EXCAVATE TO ALLOW THE FOOTING TO REST ON LEVEL ROCK



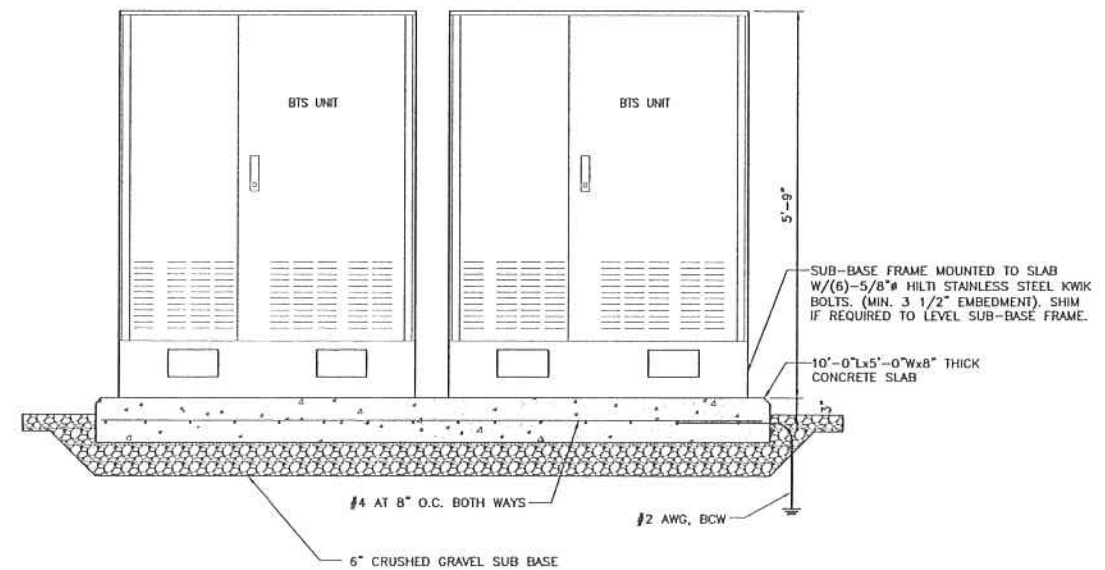
# DESIGN LOAD CRITERIA

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

DESIGN BASIS	CONNECTICUT
COVERING CODE	STATE BUILDING CODE
DESIGN LIVE LOADS:	
IMPORTANCE CATEGORY	III
SNOW LOAD:	
GROUND SNOW LOAD ( $P_g$ )	30 PSF
IMPORTANCE FACTOR ( $I_s$ )	1.2
EXPOSURE FACTOR ( $C_e$ )	.9
THERMAL FACTOR ( $C_t$ )	1.0
WIND LOAD:	
BASIC WIND LOAD	110 MPH (3 SECOND GUST)
EXPOSURE GROUP	C
IMPORTANCE FACTOR ( $I_w$ )	1.15
EQUIPMENT LOAD:	
EQUIPMENT DL:	9,000 LBS
SEISMIC DESIGN PARAMETERS:	
SEISMIC USE GROUP	II
MCE SPECTRAL ACCELERATION SHORT ( $S_a$ )	0.273
MCE SPECTRAL ACCELERATION SHORT ( $S_s$ )	0.081
SITE CLASS	D FOR UNKNOWN SOIL PROPERTIES
IMPORTANCE FACTOR ( $I_e$ )	1.5



2 SECTION AT PPC  
C-9 SCALE: NTS



1 SECTION AT T-MOBILE EQUIPMENT SLAB  
C-9 SCALE: NTS

A&E FIRM  
**URS CORPORATION AES**  
500 ENTERPRISE DRIVE  
ROCKY HILL, CONNECTICUT  
1-(860)-529-8882



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GUILFORD  
1919 BOSTON POST ROAD  
GUILFORD, CONNECTICUT

SCALE: AS NOTED

T-MOBILE  
EQUIPMENT  
SECTIONS

C-9