PROJECT DESCRIPTION:

CONSTRUCTION OF PUBLIC UTILITY/PERSONAL WIRELESS SERVICE FACILITY CONSISTING OF A MONOPINE TOWER, INITIALLY (1) EQUIPMENT SHELTER, AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND, NO WATER OR SEWER IS REQUIRED.

CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

- 1. CT BUILDING CODE
- 6. UNIFORM PLUMBING CODE 7. NATIONAL ELECTRIC CODE
- 2. UNIFORM BUILDING CODE
- 3. BUILDING OFFICIALS AND CODE 8. LOCAL BUILDING CODE 9. CITY/COUNTY ORDINANCES ADMINISTRATORS (BOCA)
- 4. UNIFORM MECHANICAL CODE 10. CTDOT CODE
- 5. ANSI/TIA/EIA-222-G

NORTH ATLANTIC **TOWERS**

WATERTOWN SITE ID: CT1140

655 BASSETT RD. WATERTOWN, CT 06795

1. PRIOR TO CONSTRUCTION, A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH TOWN OF WATERTOWN

2. INFINIGY SHALL OVERSEE ALL DRAINAGE AND CONTROL STRUCTURES, AS WELL AS PERFORM PERIODIC INSPECTIONS FOLLOWING ANY RAINFALL > 0.25 IN. ADDITIONAL STABILIZATION MEASURES MAY BE REQUIRED. ALL INSPECTION REPORTS TO BE SUBMITTED TO THE TOWN AND THE CSC.

PROJECT DIRECTORY

41' 39' 26" N (APPROX.) 73' 08' 11" W (APPROX.)

PROJECT INFORMATION

655 BASSETT ROAD WATERTOWN, CT 06795

TOWN OF WATERTOWN

± 51.53 ACRES

CT1140

PROPERTY OWNER:

ZONING CLASSIFICATION: R-90; RESIDENTIAL

PARCEL I.D. (M/B/L/U): 15/25/3///

GUSTAFSON FRANK E EST/FRANK E JR & ALAN R CO EXEC'S/FRANK E, ALAN R, PETER

± 63,000 SQ FT (INCL. LINKFIELD RD UPGRADE)

(860) 274-5002

APPLICANT:

SITE NAME:

SITE ADDRESS:

ZONING JURISDICTION:

ACCOUNT NUMBER:

CONSTRUCTION AREA:

PARCEL SIZE:

LONGITUDE:

SITE ID:

NORTH ATLANTIC TOWERS 1001 3RD AVE WEST, SUITE 420 BRADENTON, FL 34205

(941) 757-5010

INFINIGY ENGINEERING PLLC 11 HERBERT DRIVE ENGINEER:

LATHAM, NY 12110

A.J. DeSANTIS (518) 690-0790

ATTORNEY:

CUDDY & FEDER LLP 445 HAMILTON STREET, 14TH FLOOR WHITE PLAINS, NY 10601

LUCIA CHIOCCHIO, ESQ (914) 761-1300

POWER COMPANY:

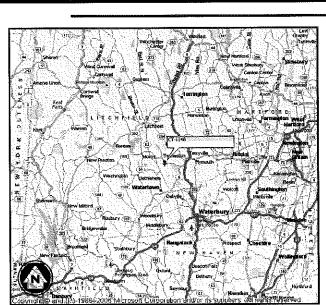
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TELCO COMPANY:

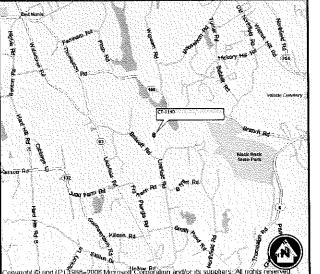
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DRAWING INDEX REV.# DATE TITLE

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VICINITY MAP N.T.S.



LOCATION MAP

infinigy engineering

11 HERBERT DRIVE LATHAM, NY 12110 OFFICE #: (518) 690-0790 FAX #: (518) 690-0793

PROPOSED TOWER HEIGHT: ±130' AGL 41° 39′ 26″ N (APPROX.) 73° 08′ 11″ W (APPROX.) LATITUDE: LONGITUDE: ±833' AGL (APPROX.) **ELEVATION:**

DIG ALERT:

CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING: 1-888-922-4455

> **EMERGENCY: CALL 911**

LITCHFIELD COUNTY, CONNECTICUT

GENERAL NOTES

- 1. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
- 2. DO NOT CHANGE SIZE NOR SPACING OF STRUCTURAL ELEMENTS
- 3. DETAILS SHOWN ARE TYPICAL: SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
- 4. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- 5. BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
- 6. DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK
- 7. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE OWNER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE APPROVAL
- 8. EACH CONTRACTOR SHALL COOPERATE WITH THE OWNER'S REPRESENTATIVE, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
- 9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS TO ENSURE THAT WORK PROGRESSION IS NOT INTERRUPTED.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING A NEAT AND ORDERLY SITE, YARD AND GROUNDS. REMOVE AND DISPOSE OFF SITE ALL RUBBISH, WASTE MATERIALS, LITTER, AND ALL FOREIGN SUBSTANCES. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS TO A SMOOTH EVEN-TEXTURED SURFACE.
- 11. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE-GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY BE SHOWN OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-922-4455
- 12. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.
- 13. THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- 14. THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATE PROPERTY DAMAGED OR REMOVED TO AT LEAST AS GOOD OF CONDITION AS BEFORE DISTURBED AS DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIRED PERMITS.
- 16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING, AND INCURRING THE COST OF ALL REQUIRED PERMITS, INCLUDING, BUT NOT LIMITED TO, THE BUILDING PERMIT, INSPECTIONS,
- 17. THE CONTRACTOR SHALL PROTECT EXISTING PROPERTY LINE MONUMENTATION. ANY MONUMENTATION DISTURBED OR DESTROYED, AS JUDGED BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF A LICENSED LAND SURVEYOR.
- 18. ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE OSHA REGULATIONS FOR CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK.
- 20. ALL UTILITY WORK INVOLVING CONNECTIONS TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER. NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE AND THE UTILITY OWNER BEFORE EACH AND EVERY CONNECTION TO EXISTING SYSTEMS IS MADE.
- 21. MAINTAIN FLOW FOR ALL EXISTING UTILITIES.
- 22. ALL SITE FILL SHALL MEET SELECTED FILL STANDARDS AS DEFINED BY THE OWNER OR OWNER'S REPRESENTATIVE ON THE DRAWINGS.
- 23. CONTRACTOR SHALL GRADE ALL AREAS ON THE SITE TO PROVIDE POSITIVE DRAINAGE AWAY FROM THE EQUIPMENT PAD AND THE TOWER.
- 24. ALL IMPROVEMENTS TO CONFORM WITH LOCAL JURISDICTION CONSTRUCTION STANDARDS AND SPECIFICATIONS, LATEST EDITION.

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS"
- 2. ALL INTERIOR STRUCTURAL STEEL USED SHALL BE, WHEN DELIVERED, FINISHED WITH ONE COAT FABRICATOR'S NON-LEAD, RED OXIDE PRIMER. PRIMING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE PRIMED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- 3. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH SPECIFICATION ASTM A36 UNLESS OTHERWISE NOTED. GALVANIZING SHALL BE PERFORMED AFTER SHOP FABRICATION TO THE GREATEST EXTENT POSSIBLE. ALL DINGS, SCRAPES, MARS, AND WELDS IN THE GALVANIZED AREAS SHALL BE REPAIRED BY FIELD TOUCH-UP PRIOR TO COMPLETION OF THE WORK.
- 4. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
- 5 CONNECTIONS:
- A. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION ", 9TH EDITION. AT THE COMPLETION OF WELDING, ALL DAMAGE TO GALVANIZED COATING SHALL BE REPAIRED.
- B. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALVANIZED ASTM A325 BOLTS (3/4" DIA) AND SHALL HAVE MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.
- C. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. GALVANIZED ASTM A 307 BOLTS UNLESS NOTED OTHERWISE.
- D. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW AND APPROVAL BY ENGINEER.

CONCRETE NOTES

- 1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS": ACL 318. "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE":
- 2. MIX DESIGN SHALL BE APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE.
- 3. CONCRETE SHALL BE NORMAL WEIGHT, 6% AIR ENTRAINED (±1.5%) WITH A MAXIMUM 4" SLUMP, AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI UNLESS OTHERWISE NOTED.
- 4. MAXIMUM AGGREGATE SIZE SHALL BE 1".
- 5. THE FOLLOWING MATERIALS SHALL BE USED:

PORTLAND CEMENT: REINFORCEMENT NORMAL WEIGHT AGGREGATE: ASTM C 150, TYPE | ASTM A 185 ASTM C 33

ADMIXTURES: NON-CHLORIDE CONTAINING 6. REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION

- 7. 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
- 8. 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 LARGER2 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

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

10. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR, SHALL BE PER MANUFACTURES 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.

11. CURING COMPOUNDS SHALL CONFORM TO ASTM C-309.

12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301

13. DO NOT WELD OR TACKWELD REINFORCING STEEL.

14. ALL DOWELS. ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.

15. LOCATE ADDITIONAL CONSTRUCTION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE REINFORCEMENT CONTINUOUSLY THROUGH JUINE

16. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.

17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JONES AND OTHER PLANES OF WEAKNESS. VIBRATE THE CONCRETE TO FULLY EMBED REINFORCENCY DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH CHUTES OR FORMWORK

18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.

18. DO NOT PLACE CONCRETE SUBBASE TO FREEZE DURING CONCRETE PLACEMENT.

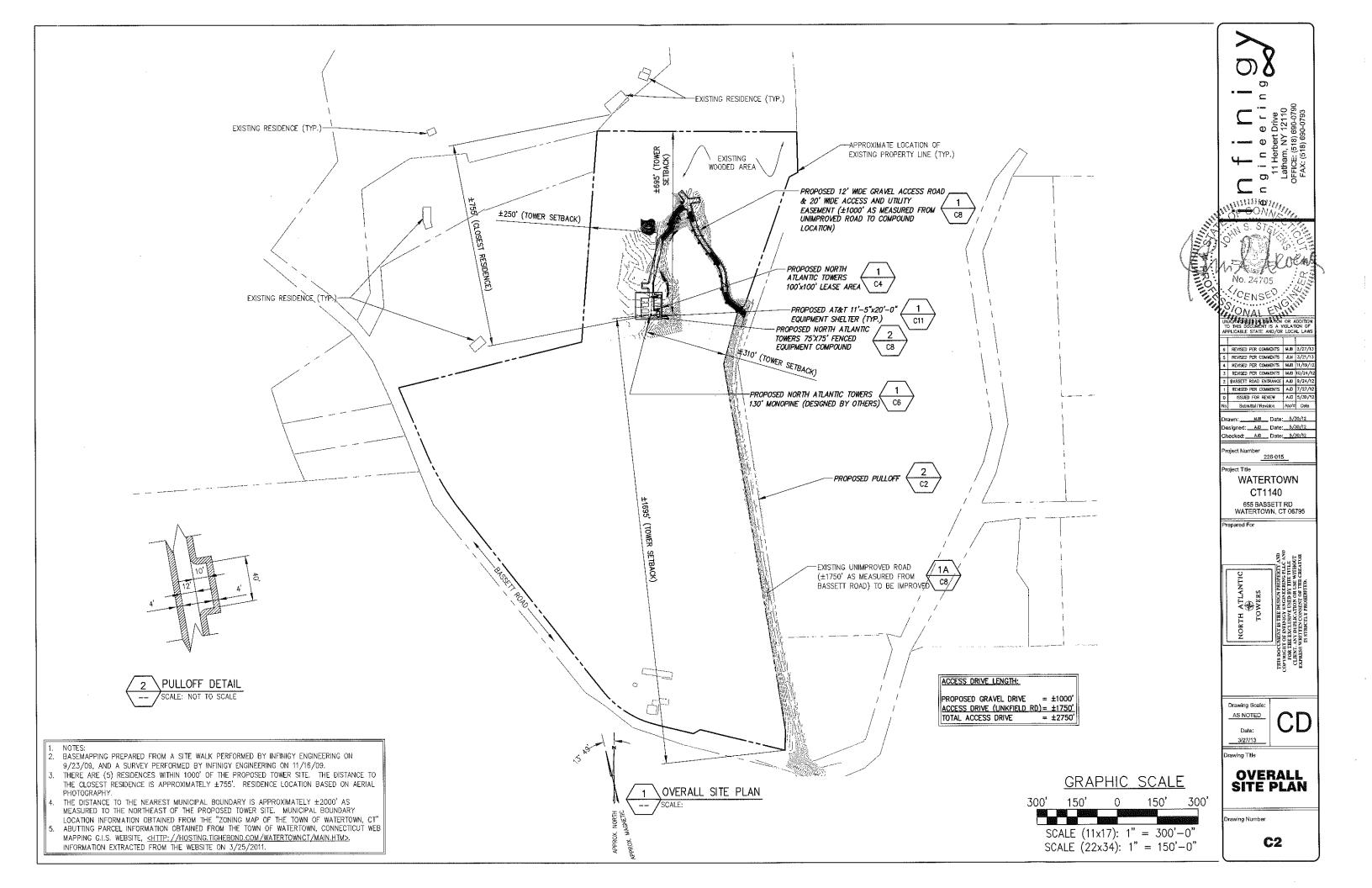
19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE PLACEMENT.

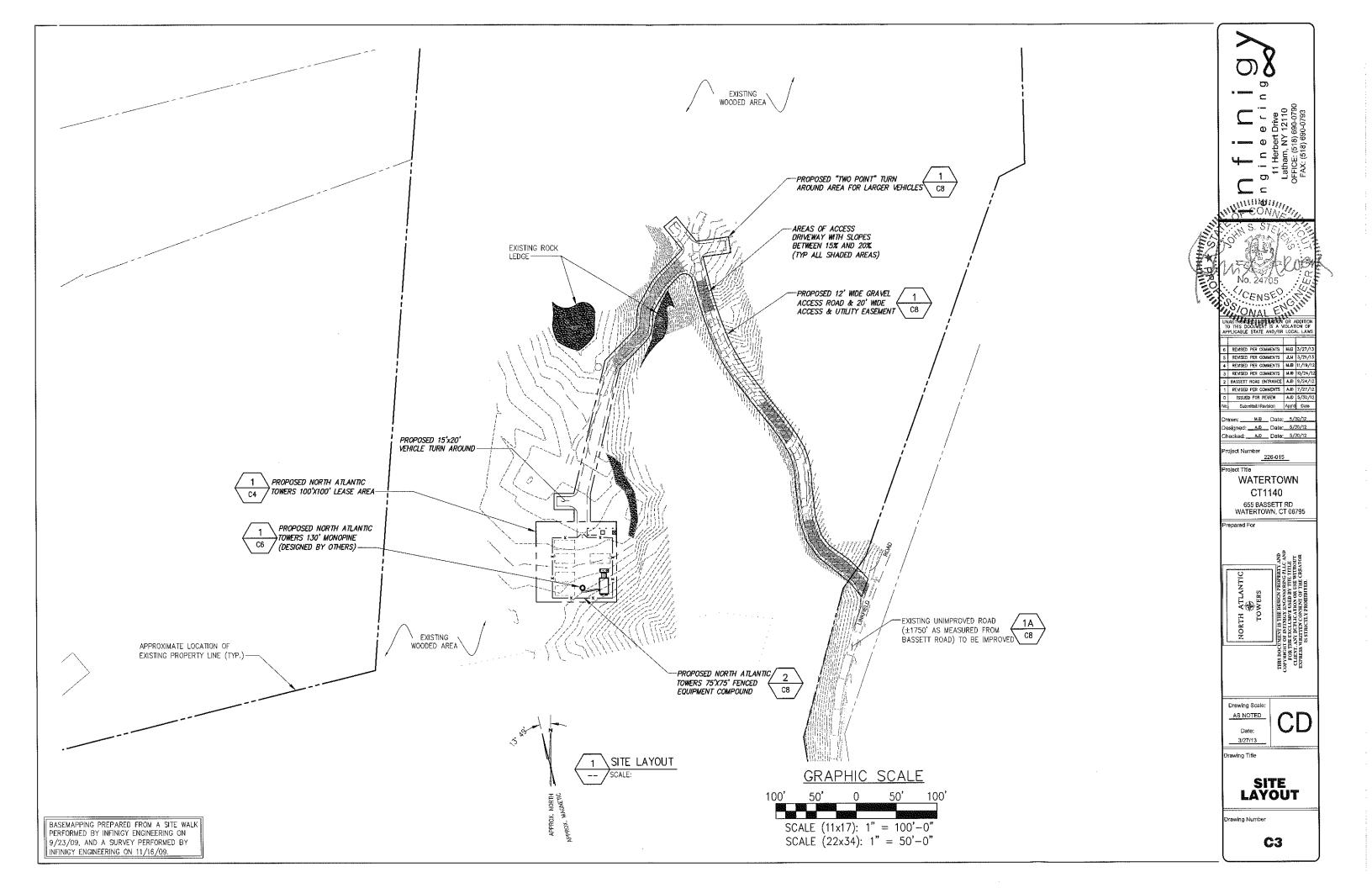
20. FOR COLD—WEATHER AND HOT—WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE SOLVED AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, UNCLUMED A VIOLATION OF ADDITION OF ADDITION

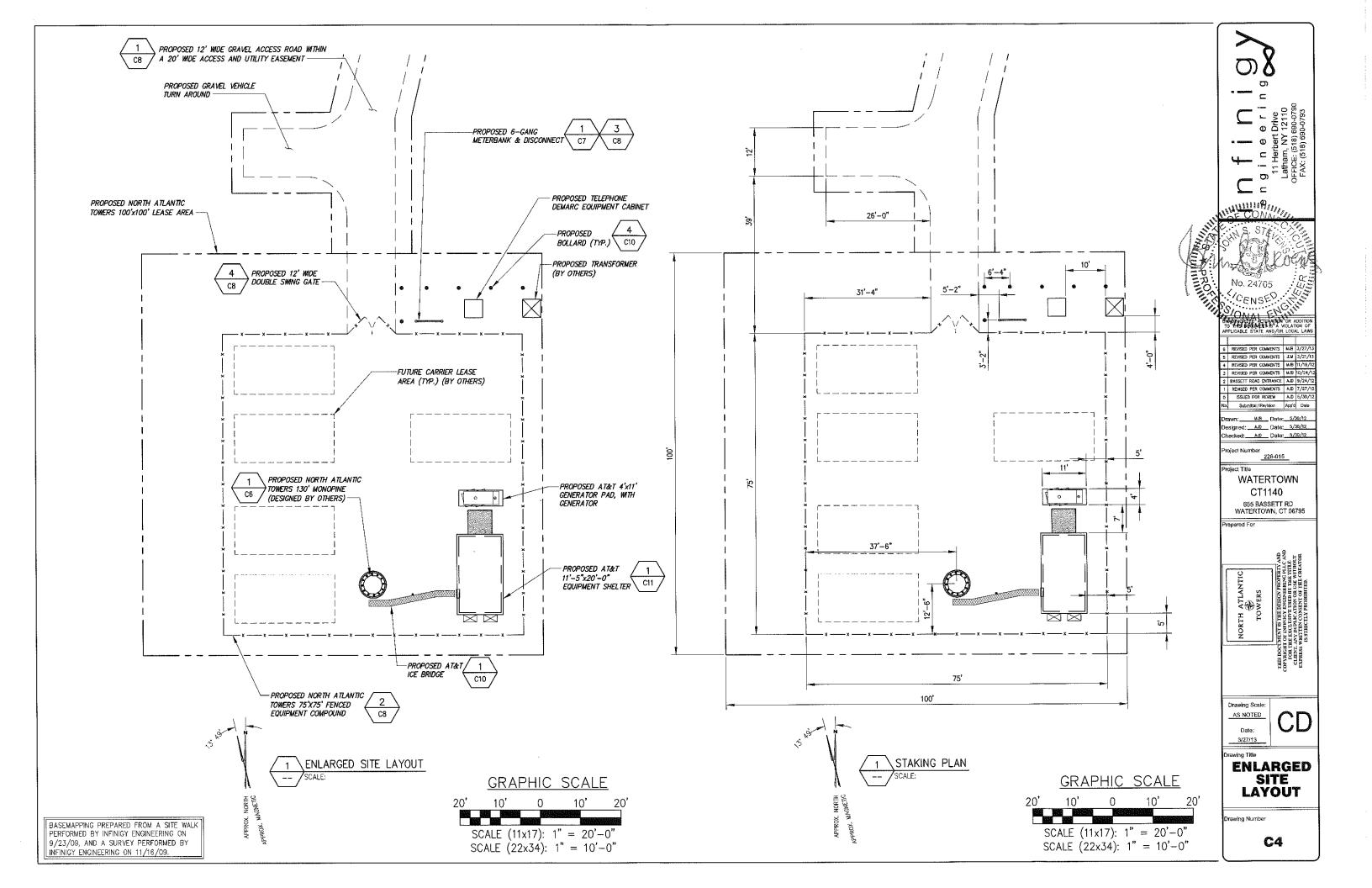
CIVIL LEGEND

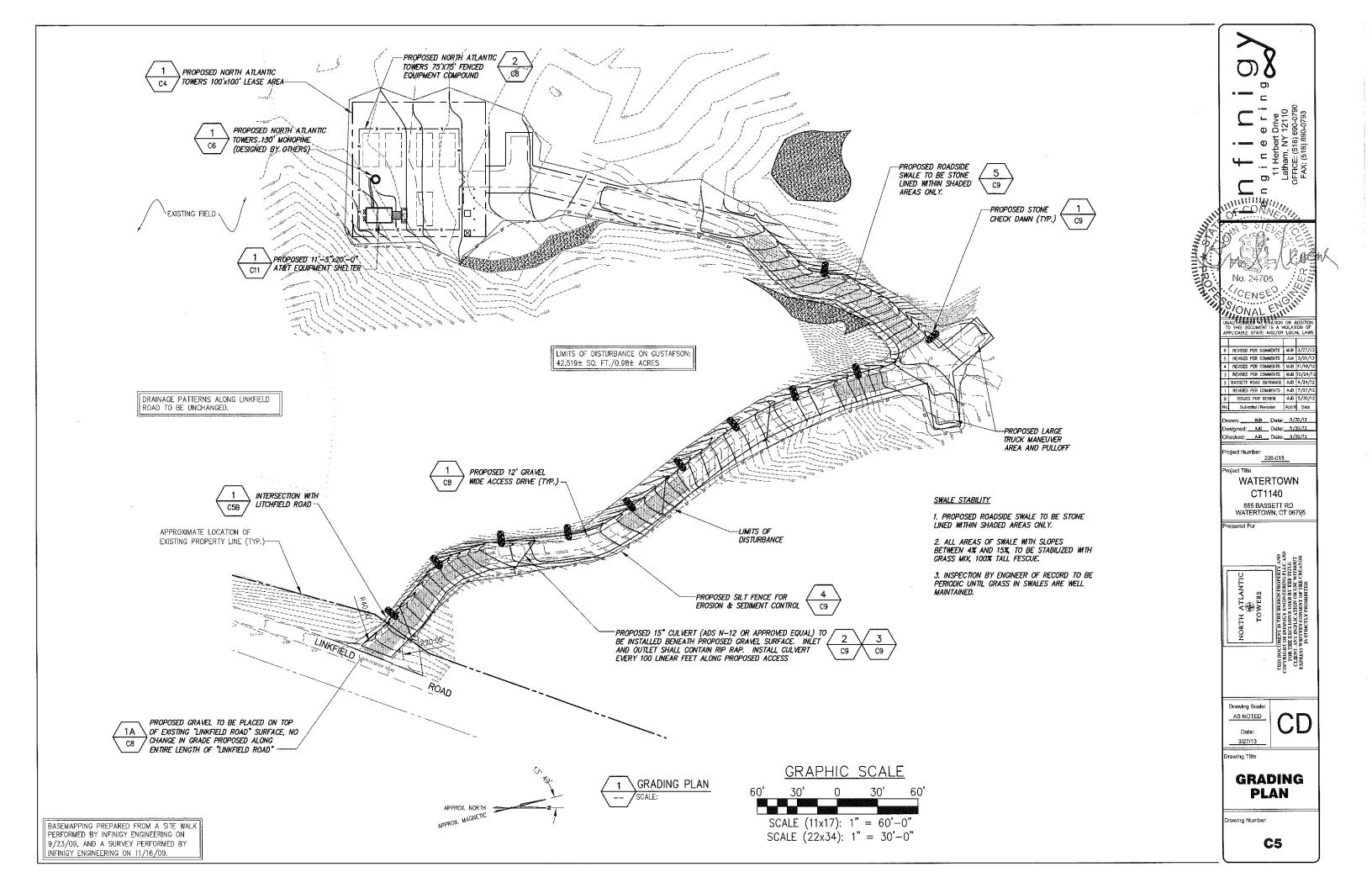
EXISTING	FENCE	PROPOSED * * *
UNDERGROUND ELECTRIC	UNDERGROUND ELECTRIC	
UMDERGROUND TELEPHONE	UNDERGROUND TELEPHONE	
OVERHEAD MIRES	OVERHEAD TELEPHONE OVERHEAD ELECTRIC	
250	5' OR 10' CONTOUR LINE	250
	1' OR 2' CONTOUR LINE	202
120.3 OR ×	SPOT ELEVATION	120.5 OR x
	PRIMARY PROPERTY OR R.O.W.	
	LEASE LINE	
	EASEMENT	
· ·	UTILITY POLE	Ø
ž.j	TELEPHONE PEDESTAL	
<u></u>	CURB	
	ASPHALT PAVEMENT	
	BUILDING	
0 *	TREES, SHRUBS, BUSHES	⊕ •••
X	REPRESENTS DETAIL NUMBER REF. DRAWING NUMBER	

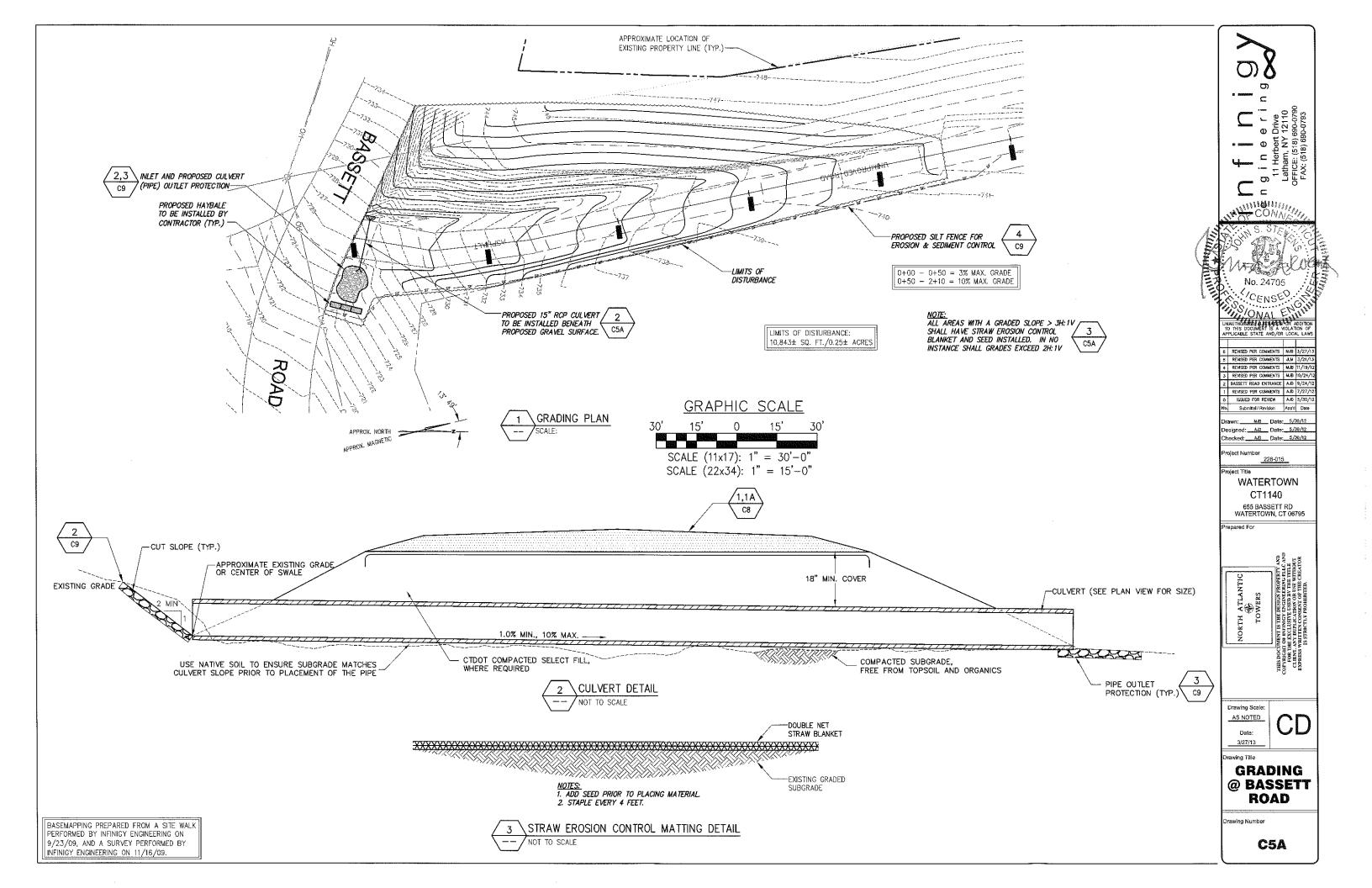
e r i Drive 7 12110 690-0790 90-0793 Q \subseteq MANNA No. 24705 6 REVISED PER COMMENTS MJB 3/2 5 REVISED PER COMMENTS J.M. 3/21. 4 REVISED PER COMMENTS | MJB 11/19 DASSETT BOAD ENTRANCE A.D 9/24 REVASED PER COMMENTS | AJD 7/2 ISSUED FOR REVIEW AJD 5/30 MJB Date: 5/30/12 Designed: AJD Date: 5/30/12 hecked: AJO Date: 5/30/12 roject Number iect Title WATERTOWN CT1140 655 BASSETT RD WATERTOWN, CT 06795 pared Fo Drawing Scale AS NOTED Date 3/27/13 awing Title GENERAL NOTES ring Number C1

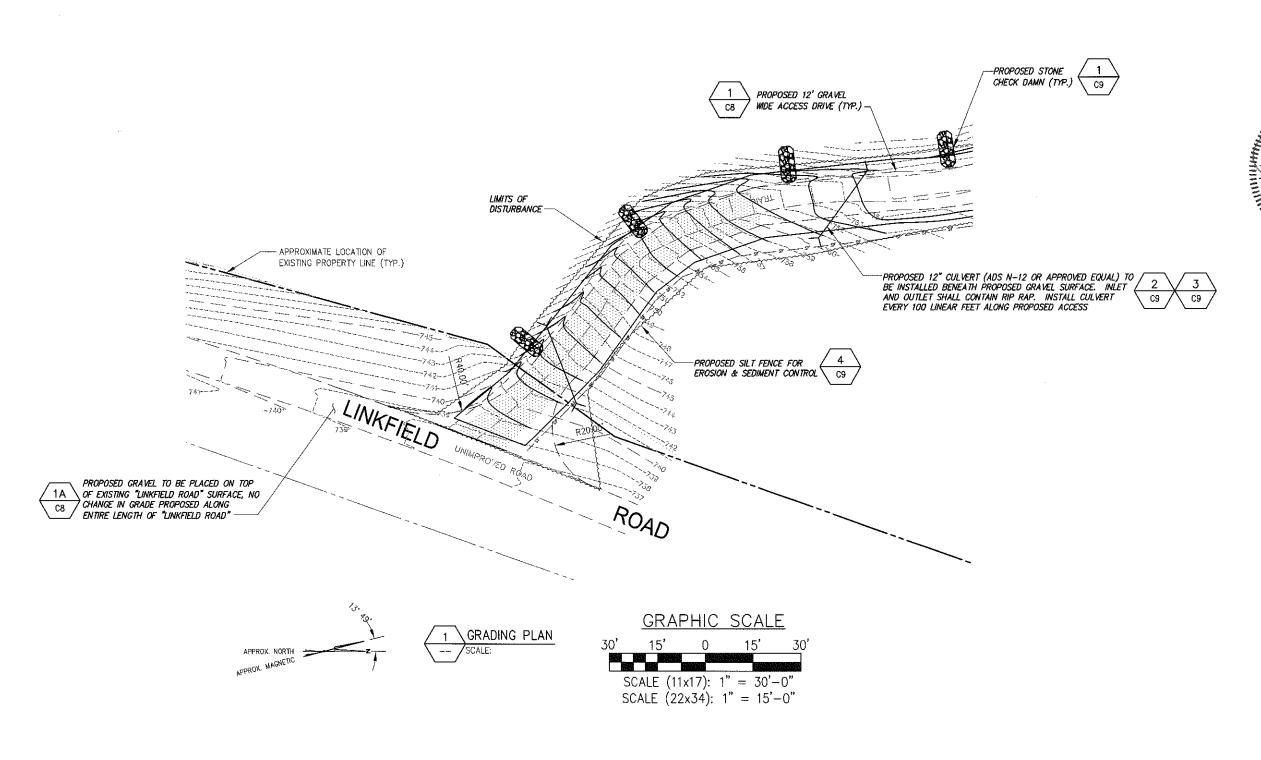












BASEMAPPING PREPARED FROM A SITE WALK PERFORMED BY INFINIGY ENGINEERING ON 9/23/09, AND A SURVEY PERFORMED BY

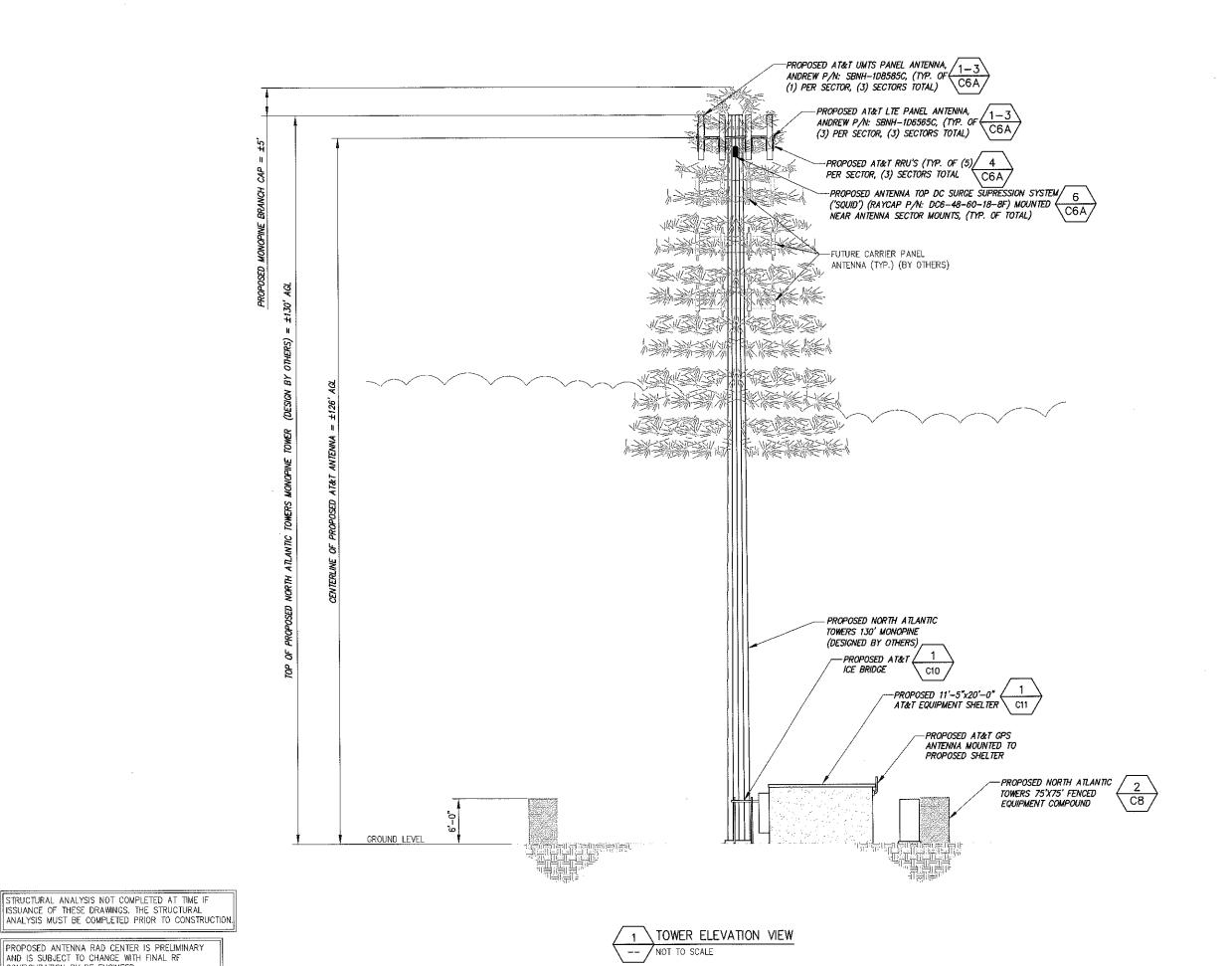
INFINIGY ENGINEERING ON 11/16/09.

esigned: AID Date: 5/30/12 WATERTOWN CT1140 655 BASSETT RD WATERTOWN, CT 06795 AS NOTED Date: 3/27/13

GRADING @ LINKFIELD ROAD

Drawing Numbe

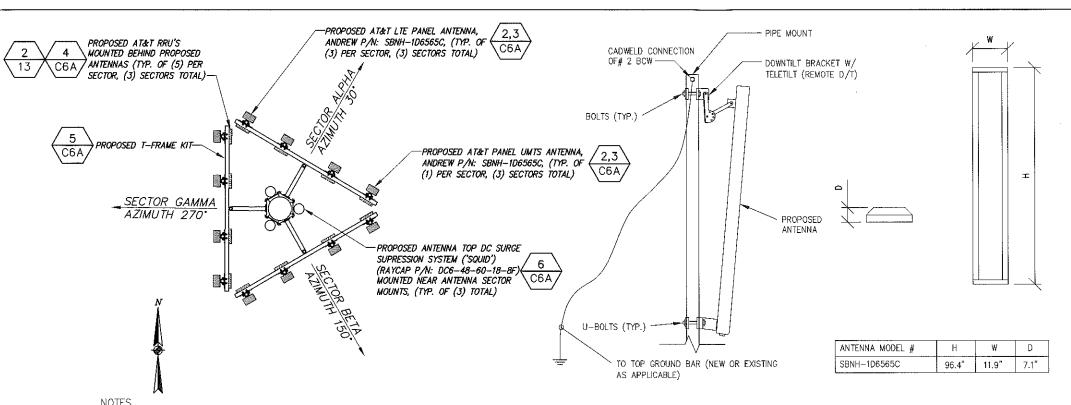
C5B



AND IS SUBJECT TO CHANGE WITH FINAL RF

CONFIGURATION BY RF ENGINEER.

UNAUTHORISM WERATION OF ADDITION OF TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAW 5 REVISED PER COMMENTS JLM 3/21/ BASSETT ROAD ENTRANCE AJD 9/2 Designed: AJD Date: 5/30/12 hecked: A.D Date: 5/30/12 roject Number 226-015 Project Title WATERTOWN CT1140 655 BASSETT RD WATERTOWN, CT 06795 Drawing Scale: AS NOTED Date: 3/27/13 rawing Title **ELEVATION** VIEW & **DETAILS** C6



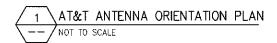
- 1. ANTENNA CENTERLINE HEIGHT IS IN REFERENCE TO HEIGHT ABOVE GROUND ELEVATION AT CENTER OF TOWER.
- 2. CONTRACTOR SHALL OBTAIN AND REVIEW RF DATA/CONFIGURATION FROM AT&T WIRELESS RE ENGINEER AND COORDINATE WITH AT&T WIRELESS CONSTRUCTION MANAGER THE FURNISHMENT AND INSTALLATION OF ANTENNAS AND APPROPRIATE DOWNTILT BRACKETS
- 3. ANTENNA MOUNTS, WAVEGUIDE LADDER, AND ALL OTHER TOWER SPECIFIC MATERIALS TO BE PROVIDED AND INSTALLED BY CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 4. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT EXISTING EQUIPMENT AND STRUCTURES. ANY DAMAGE WILL BE REPAIRED AT THE CONTRACTORS EXPENSE. CONTRACTOR SHALL NOT LEAVE THE SITE UNSECURED AT ANY TIME.
- 5. CONTRACTOR SHALL COMPILE A SCHEDULE OF ALL NECESSARY TOWER SPECIFIC MATERIALS (ANTENNA MOUNTS, WAVEGUIDE LADDER, MOUNTING HARDWARE, COAXIAL CABLES, ANTENNAS, ETC.) AND PROVIDE TO AT&T WIRELESS CONSTRUCTION MANAGER FOR USE IN TOWER STRUCTURAL ANALYSIS (IF APPLICABLE).

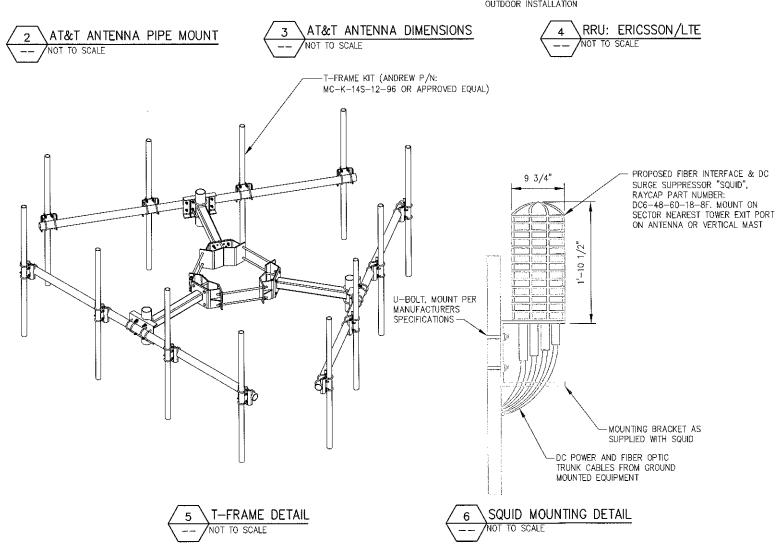
PROPOSED ANTENNA CONFIGURATION AND COAXIAL CABLE SCHEDULE							
SECTOR	BAND	ANTENNA	ANTENNA © HEIGHT	AZIMUTH	FEEDER TYPE	FEEDER LENGTH	
ALDIIA		(3) SBNH-1D6565C	126' AGL	30°	FIBER/POWER	±170'	
ALPHA	UMTS	(1) SBNH-1D6565C	120 AGL				
ВЕТА	LTE	(3) SBNH-1D6565C	126' AGL	100' 40	150*	FIBER/POWER	±170'
	UMTS	(1) SBNH-1D6565C	IZO AGL	150	FIDER/FOWER	WER ±170	
GAMMA	LTE	(3) SBNH-1D6565C	126' AGL	100' 10	270°	FIBER/POWER	±170'
	UMTS	(1) SBNH-1D6565C		270	TIDEN/FOWER	1170	

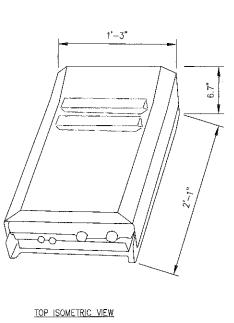
FEEDER LENGTH INCLUDES A BUFFER OF 15%.

CONTRACTOR TO VERIFY RF DATA WITH CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION.

DETAIL ABOVE SHOWN FOR INFORMATIONAL PURPOSES. EXACT MODEL MAY DIFFER BASED ON TOWER DESIGN. TOWER MANUFACTURER TO PROVIDE ANTENNA SUPPORT DETAIL.







NET WEIGHT: COLOR GRAY

44 LBS AS MANUFACTURED

NOMINAL VOLTATE:

-48 VDC

ABOVE DIMENSIONS AND WEIGHTS ARE WITH SOLAR SHIELD FOR OUTDOOR INSTALLATION

⊑

ONNE CONNECTE

No. 24705

CENSE?

UNAUTHORITED NATE AND OR ADDITE TO THIS DOCUMENT IS A VIOLATION C APPLICABLE STATE AND/OR LOCAL LA

REVISED PER COMMENTS MJB 3/27 REVISED PER COMMENTS JUM 3/2

REVISED PER COMMENTS MJB 10/24

ISSUED FOR REVIEW AJD 5/30,

WATERTOWN

CT1140

655 BASSETT RD WATERTOWN, CT 06795

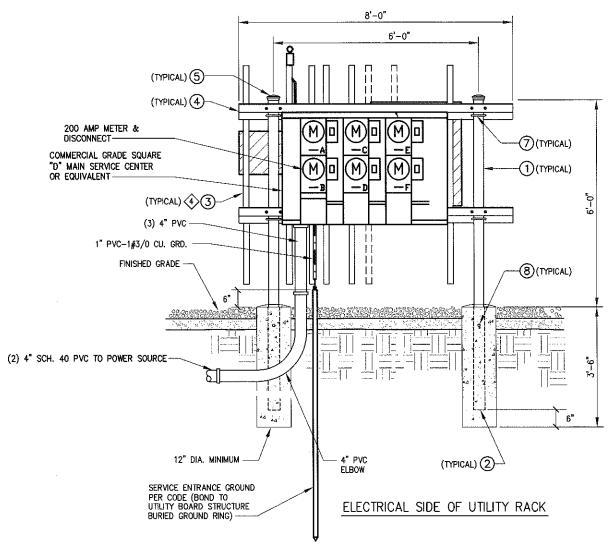
MJB Date: 5/30/1: esigned: <u>AJD</u> Date: 5/30/12

AS NOTED Date:

3/27/13

ANTENNA DETAILS

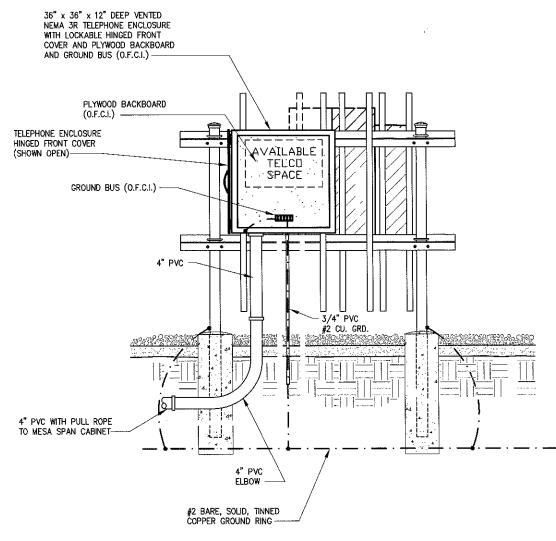
C6A



	PARTS LIST — O.F.C.I.			
	ITEM	DESCRIPTION	QTY.	
	1	84" x 3.5" O.D. PIPE	2	
+	2	36" INSERT	2	
	3	VERTICAL MEMBER	9	
	4	HORIZONTAL MEMBER	4	
	(5)	3-1/2" O.D. PIPE CAP	2	
*	6	3/8" ANGLE ADAPTOR	38	
	7	1/2 x 3-5/8 x 5" GALV. U-BOLT ASSY.	8	
	8	1/2 x 1-1/2" GALV. BOLT ASSY.	2	
*	(9)	3/8 x 3/4" GALV. BOLT ASSY.	38	
*	9	3/8" GALV. FLAT WASHER	38	

* NOT SHOWN

+ TO PREVENT CORROSION, ENSURE THAT THE PIPE SLEEVE IS COMPLETELY BELOW GROUND LEVEL AND ENCASED IN CONCRETE.

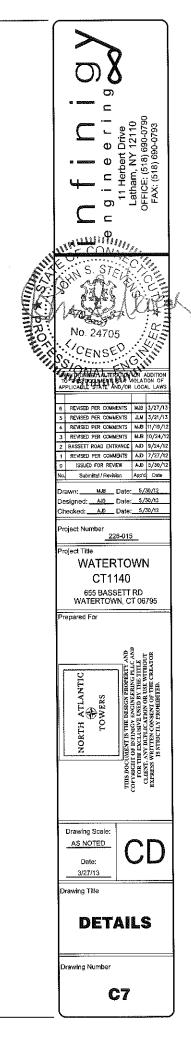


TELCO SIDE OF UTILITY RACK

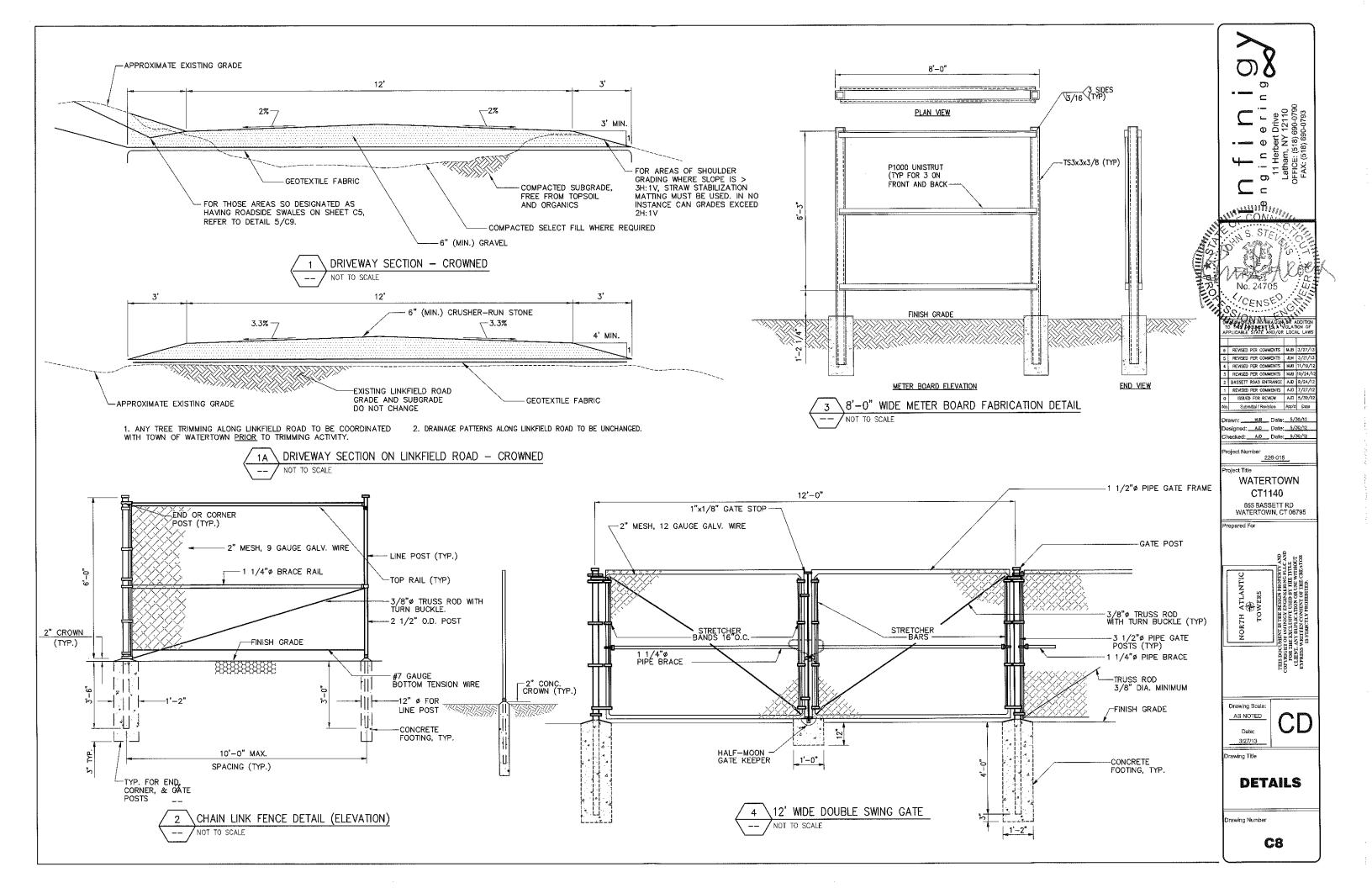
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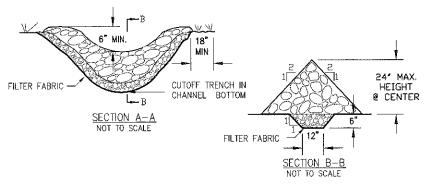
UTILITY RACK DETAILS

- 1. UNLESS OTHERWISE NOTED, ALL UNDERGROUND PVC TO BE SCH 40.
- 3. ALL WIRE CONNECTIONS & CONDUITS TO BE SUPPLIED BY CONTRACTOR UNLESS OTHERWISE NOTED OR SPECIFIED BY CONSTRUCTION MANAGER.



- 2. ALL ABOVE GRADE PVC TO BE SCH 40. ALL CONNECTIONS TO BE SCH 40 PVC OR SEALTIGHT, VERIFY WITH CONSTRUCTION MANAGER PRIOR TO BID.
- ADDITIONAL ANGLE ADAPTORS (NOT SHOWN) ARE USED TO MOUNT SERVICE BOXES TO THE VERTICAL MEMBERS.

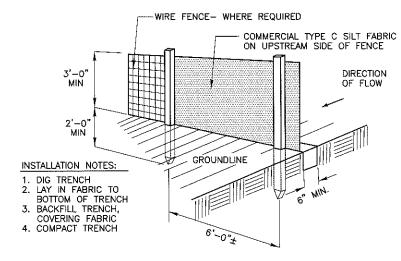




CONSTRUCTION SPECIFICATIONS

- 1. STONE WILL BE PLACED ON A FILTER FABRIC LAYER IN THE TRENCH TO THE LINES. GRADES AND LOCATIONS SHOWN IN THE EROSION AND SEDIMENT CONTROL PLAN.
- 2. EXTEND THE STONE A MINIMUM OF 18 INCHES BEYOND THE DITCH SIDE SLOPES TO PREVENT CUTTING AROUND THE DAM. ENSURE CREST IS 6" LOWER THAN SIDES.
- 3. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH A STONE SPLASH PAD OR EXTEND THE FILTER FABRIC LAYER.
- 4. ENSURE THAT CHANNEL APPURTENANCES (i.e. CULVERTS OR CATCH BASINS) BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
- 5. MAINTENANCE REMOVE ACCUMULATED SEDIMENT FROM BEHIND CHECK DAMS, REPAIR ANY SIDE SLOPES THAT HAVE ERODED, AND REPLACE ANY OF THE DISPLACED STONE.



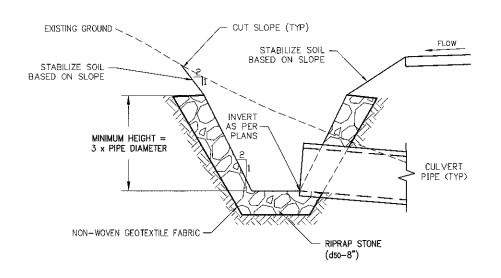


CONSTRUCTION NOTES FOR FABRICATED SILT FENCE

- 1. WOVEN WIRE FENCE TO BE FASTENED SECURELY POSTS: STEEL EITHER T OR U TO FENCE POSTS WITH WIRE TIES OR STAPLES.
- 2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
- 3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY SIX INCHES AND FOLDED.
- 4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULDGES" DEVELOP IN THE SILT FENCE.
- 5. ALL SILT FENCE MATERIALS MUST BE LISTED ON THE CURRENT STATES D.O.T. QUALIFIED PRODUCTS LIST

- FENCE: WOVEN WIRE, 14 GA. 6" MAX. MESH OPENING. AS DIRECTED BY JURISDICTION
- FILTER CLOTH: FILTER X, MIRAFI 100X' STABILINKA T140N OR APPROVED EQUAL.
- PREFABRICATED UNIT: GEOFAB, ENVIROFENCE OR APPROVED EQUAL.

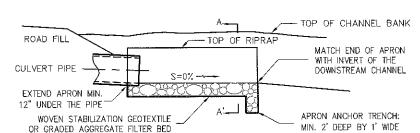




CROSS SECTION NOT TO SCALE



FOR DETAILS 2, 3 & 5, THICKNESS OF THE RIPRAP TO BE 1.5x MAXIMUM STONE SIZE BUT NOT < 12 INCHES.



CROSS SECTION A-A'

MIN. APRON LENGTH

 $= 6 \times D$ PLAN VIEW

PROFILE VIEW

1. RIP-RAP TO BE dso-8" NOMINAL DIA. STONE.

CULVERT

PIPE (D)

BOTTOM WIDTH TO VARY FROM PIPE

DIAMETER AT PIPE OUTLET TO WIDTH

OF EXISTING CHANNEL AT APRON END

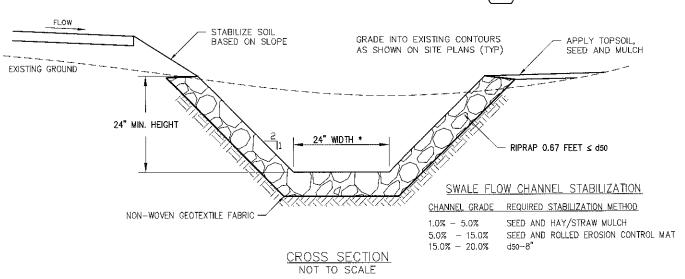
MIN. WIDTH

 $= 3 \times D$

TOPSON SOIL THEN

SEED AND MULCH

CULVERT (PIPE) OUTLET PROTECTION NOT TO SCALE



ROADSIDE SWALE

* SEE GRADING PLAN FOR LOCATIONS OF SWALES AND ADDITIONAL DIMENSIONS WITH ELEVATIONS

ILLUSTRATES DISCHARGE TO CONFINED CHANNEL SECTION COMNE UNAUTHORIZED ALTERATION OR ADDITI TO THIS DOCUMENT IS A VIOLATION O APPLICABLE STATE AND/OR LOCAL LA REVISED PER COMMENTS NUB 11/1: REVISED PER COMMENTS AJD 7/2 ISSUED FOR REVIEW AJD 5/30, esigned: AJD Date: 5/30/12 hecked: AJD Date: 5/30/12 roject Number 226-015 WATERTOWN CT1140 655 BASSETT RD WATERTOWN, CT 06795 repared Fo

TOPSON ANY EXPOSED SOIL THEN SEED AND MULCH

EXTEND GEOTEXTILE

SIDE SLOPES TO VARY

FROM 2:1 (H:V) AT

CHANNEL SLOPE AT

PIPE OUTLET TO

MATCH EXISTING

FND OF APRON

6" BEYOND APRON

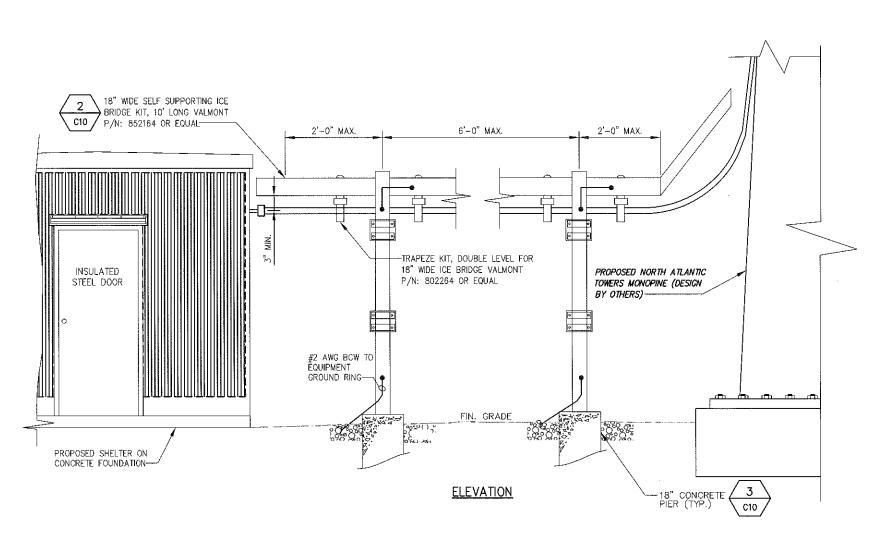
CENTER OF CHANNEL

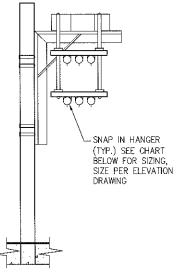
Drawing Scale: 3/27/13

awing Title

DETAILS

C9





NOTES:

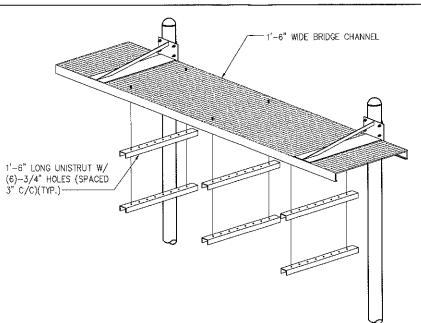
- WHEN USING VALMONT COMPONENTS AS SHOWN IN STANDARD DETAILS, MAXIMUM ALLOWABLE SPAN BETWEEN SUPPORTS ON A CONTINUOUS SINGLE SECTION OF BRIDGE CHANNEL SHALL BE 19 FEET FOR 20 FEET BRIDGE CHANNEL, OR 9 FEET FOR 10 FEET BRIDGE CHANNEL.
- 2. WHEN USING VALMONT COMPONENTS FOR SPLICING BRIDGE CHANNEL SECTIONS, THE SPLICE SHOULD BE PROVIDED AT THE SUPPORT, IF POSSIBLE, OR AT A MAXIMUM OF 2 FEET FROM THE SUPPORT.
- 3. WHEN USING VALMONT COMPONENTS, SUPPORT SHOULD BE PROVIDED AS CLOSE AS POSSIBLE TO THE ENDS OF ICE BRIDGES, WITH A MAXIMUM CANTILEVER DISTANCE OF 2 FEET FROM THE SUPPORT TO THE FREE END OF THE ICE BRIDGE.
- 4. CUT BRIDGE CHANNEL SECTIONS SHOULD HAVE RAW EDGES TREATED WITH A MATERIAL TO RESTORE THE EDGES TO THE ORIGINAL CHANNEL, OR EQUIVALENT, FINISH.
- 5. ICE BRIDGES MAY BE CONSTRUCTED WITH COMPONENTS FROM MANUFACTURERS OTHER THAN PIROD, PROVIDED THE MANUFACTURER'S INSTALLATION GUIDELINES ARE FOLLOWED.
- DEVIATIONS FROM STANDARDS FOR COMPONENT INSTALLATIONS ARE PERMITTED WITH THE RESPECTIVE MANUFACTURER'S APPROVAL.
- 7. ATTACH FLANGED END OF SUPPORT POST TO CONCRETE PAD USING 4-3/8" DIA. HILT-HY 150 ADHESIVE ANCHORS. PROVIDE MINIMUM OF $4\ 1/2$ " EMBEDMENT.
- 8. DEVIATIONS FROM ICE BRIDGE FOUNDATIONS SHOWN ON SITE SPECIFIC DRAWINGS OR STANDARD DETAILS REQUIRE ENGINEERING APPROVAL.



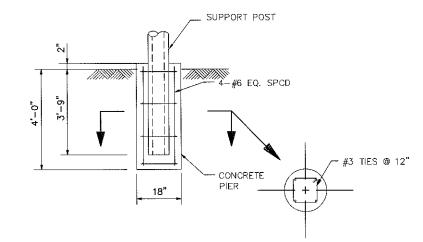
SNAP IN HANGER SIZING CHART

SIZE	ANDREW P/N
7/8"	436807
1-5/8"	439849

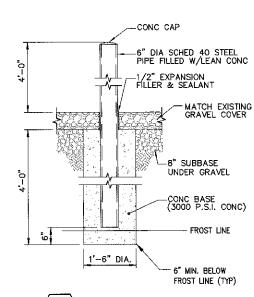
SECTION



2 ISOMETRIC ICE BRIDGE

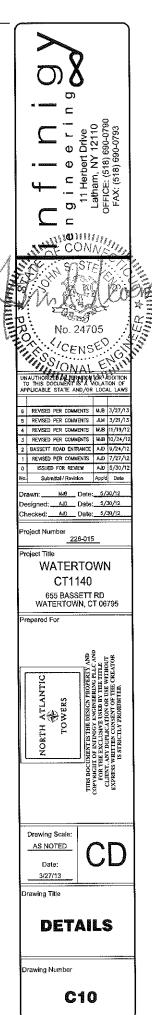


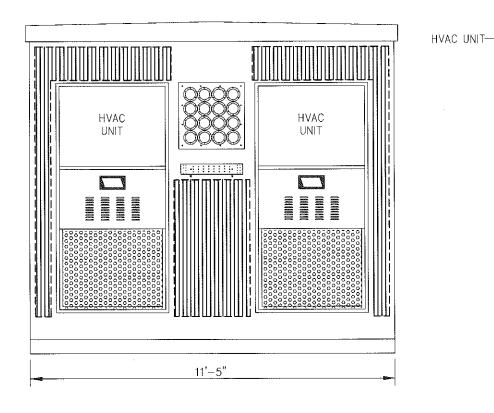


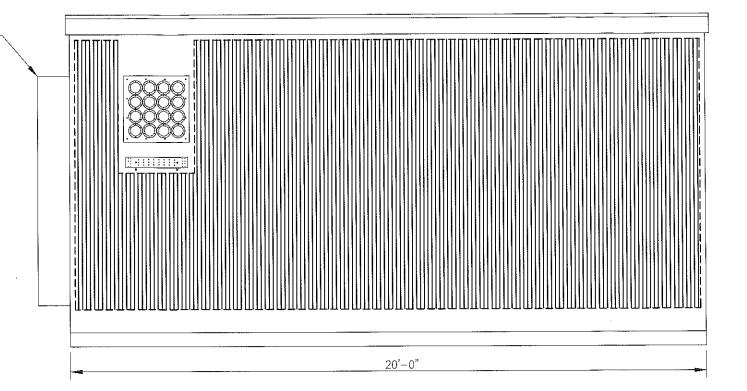


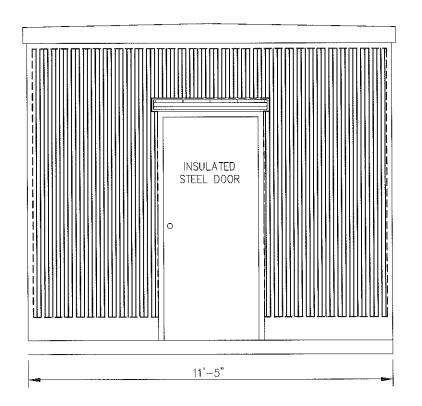
4 BOLLARD DETAIL

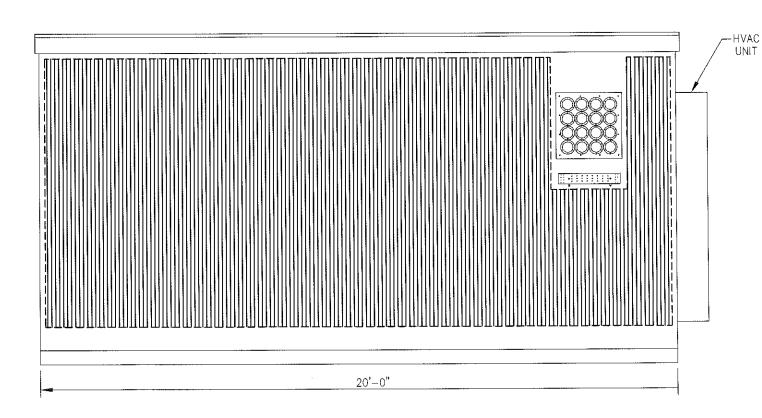
NOT TO SCALE











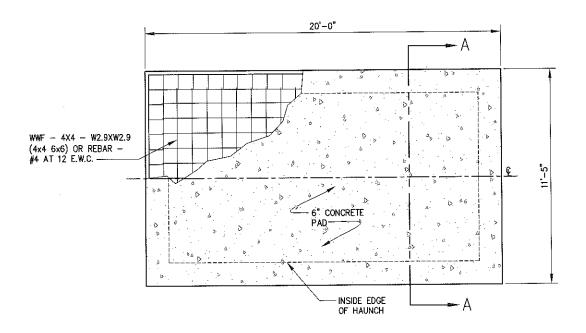
NOTE: THE SHELTER SHOWN IS OF A TYPICAL LAYOUT ONLY. CONTRACTOR TO REFER TO FINAL MANUFACTURER'S SHELTER DESIGN DRAWINGS FOR EXACT DIMENSIONS, EQUIPMENT LOCATIONS AND CONDUIT PENETRATIONS, ETC., PRIOR TO CONSTRUCTION.

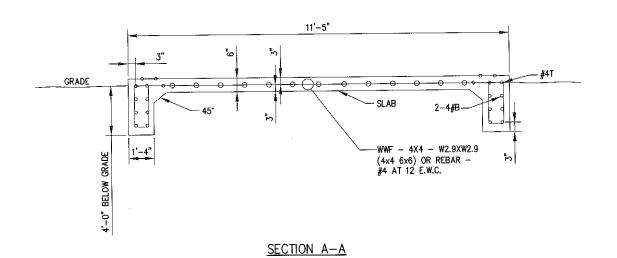
1 TYPICAL EQUIPMENT BUILDING
-- NOT TO SCALE

g g L WILLIAM ON STANK No. 24705 SSUED FOR REVIEW AJD 5/30/ Designed: AJD Date: 5/30/12 Checked: AJD Date: 5/30/12 226-015 WATERTOWN CT1140 655 BASSETT RD WATERTOWN, CT 06795 NORTH ATLANTIC Drawing Scale: AS NOTED Date: 3/27/13 rawing Title SHELTER **DETAILS**

awing Number

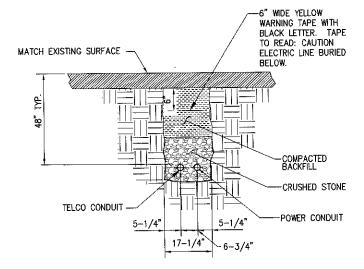
C11





SHELTER FOUNDATION PLAN

NOT TO SCALE

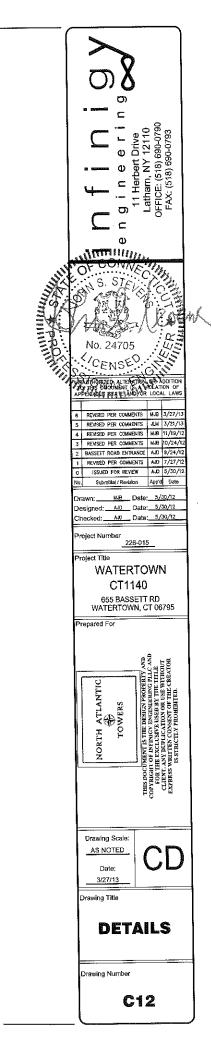


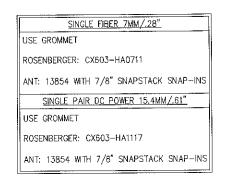
- NOTE:

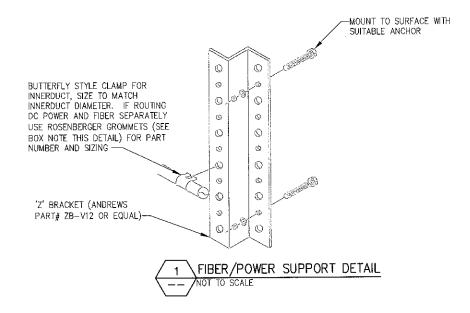
 1. NUMBER AND SIZE OF CONDUITS MAY VARY. REFER TO CONSTRUCTION DRAWINGS FOR CONDUIT SIZE AND LOCATION. CONFIRM DIMENSIONS SHOWN WITH UTILITY COMPANY.
- COMPANT.

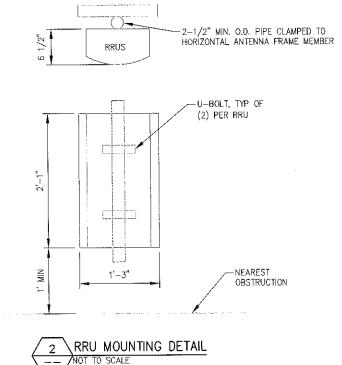
 2. CONTRACTOR TO VERIFY IN FIELD THE LOCATION, SIZE, TYPE, AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO DIGGING THE SERVICE TRENCH. PROVIDE A MINIMUM OF 18" CLEARANCE BETWEEN PROPOSED UTILITIES AND EXISTING UTILITIES IN THE CASE OF UTILITY LINE CROSSINGS.

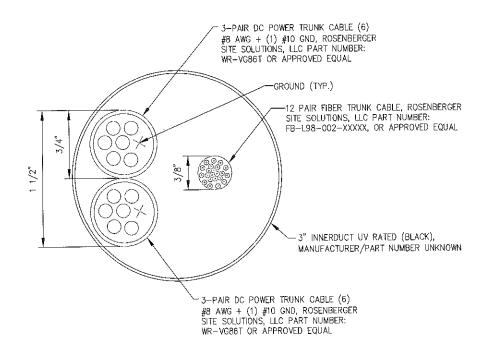




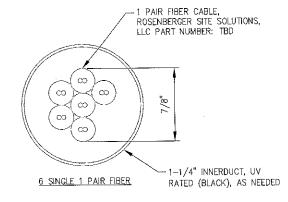


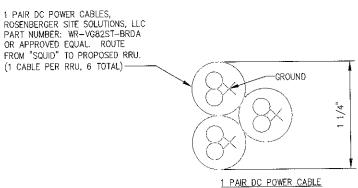




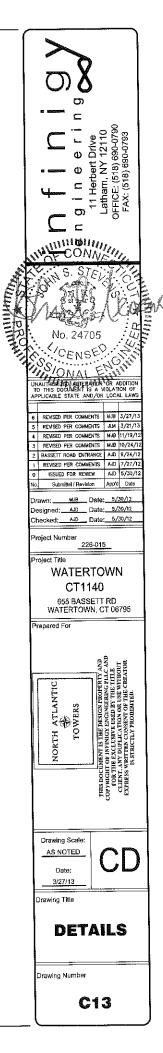


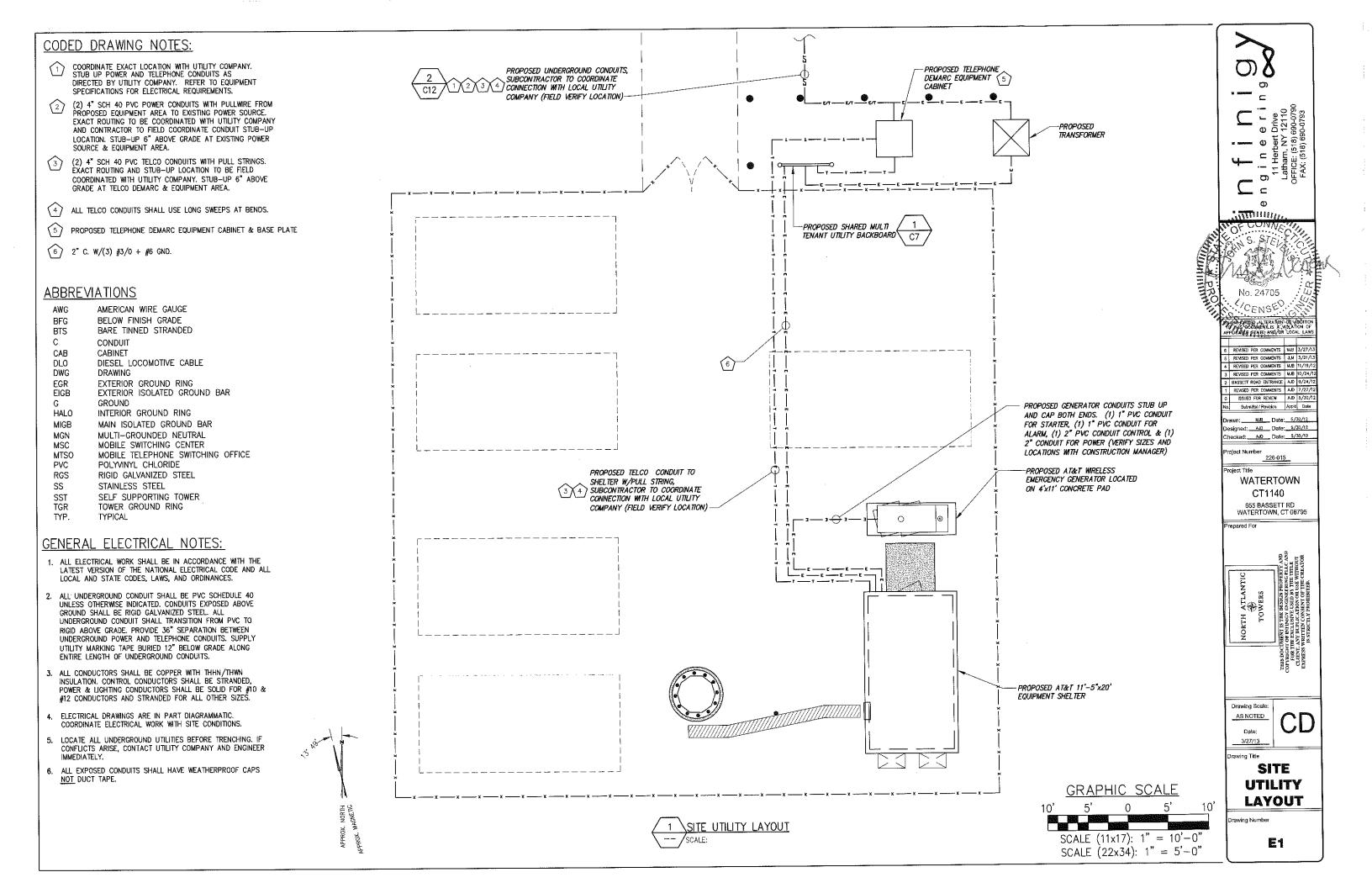
FIBER/DC POWER TRUNK CABLE ROUTING





LTE POWER AND FIBER TOWER ATTACHMENT DETAIL





GENERAL NOTES:

1. INSPECTIONS

- A. GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT. INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REQUIREMENTS, AND THE LATEST EDITION OF NEC, NFC, NEMA, OSHA, SBC, AND UL.
- B. INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
- C. INSPECTION AGENCY: APPROVED BY THE LOCAL AND/OR STATE AGENCIES HAVING JURISDICTION AT THE PROJECT SITE.
- D. CERTIFICATES: SUBMIT ALL REQUIRED INSPECTION CERTIFICATES.

2. HANGERS AND SUPPORTS

- A. MATERIALS: ALL HANGERS, SUPPORTS, FASTENERS AND HARDWARE SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTANCE BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR USE SHALL BE HOT DIP GALVANIZED.
- B. TYPES: HANGERS, STRAPS, RISER SUPPORTS, CLAMPS, U—CHANNEL, THREADED RODS, ETC. AS INDICATED OR REQUIRED.
- C. INSTALLATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS, RACEWAY AND EQUIPMENT TO BUILDING STRUCTURE USING HANGERS, SUPPORTS AND FASTENERS SUITABLE FOR THE USE. MATERIALS AND LOADS ENCOUNTERED. PROVIDE ALL NECESSARY HARDWARE. PROVIDE CONDUIT SUPPORTS AT MAXIMUM 5 FT. O.C.
- D: STRUCTURAL MEMBERS: DO NOT CUT, DRILL, OR WELD ANY STRUCTURAL MEMBER EXCEPT AS SPECIFICALLY APPROVED BY THE ENGINEER.
- E. MISCELLANEOUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT.
- F. ONE HOLE STRAPS SHALL NOT BE USED FOR CONDUITS LARGER THAN 3/4 INCH.

3. ENCLOSURES

A. NEMA 3R

4. HOLES, SLEEVES AND OPENINGS

GENERAL: PROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MATCH SURROUNDING SURFACES.

5 CUTTING AND PATCHING

- A. GENERAL: PROVIDE ALL CUTTING, DRILLING, FITTING AND PATCHING NECESSARY FOR ACCOMPLISHING THE WORK. THIS INCLUDES ANY AND ALL WORK NECESSARY TO: UNCOVER WORK TO PROVIDE FOR THE INSTALLATION OF ILL TIMED WORK, REMOVE AND REPLACE DEFECTIVE WORK AND WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- B. REPAIRS: REPAIR ANY AND ALL DAMAGE TO WORK OF OTHER TRADES CAUSED BY CUTTING AND PATCHING OPERATIONS, USING SKILLED MECHANICS OF THE TRADES INVOLVED.

6. RACEWAY SYSTEMS

- A. FOR INITIAL ANCHOR TENANT: ALL CONDUIT AND ALL CONDUIT ELBOWS SHALL BE SCHEDULE 40 PVC UNLESS NOTED OTHERWISE.
- B. FOR FUTURE CARRIERS: ALL ABOVE GRADE CONDUIT AND ALL CONDUIT ELBOWS SHALL BE RIGID GALVANIZED STEEL UNLESS NOTED OTHERWISE. ALL BELOW GRADE CONDUIT (EXCEPT ELBOWS) SHALL BE SCHEDULE 40 PVC.
- C. TOWER LIGHT CIRCUIT FROM CONTROLLER TO LIGHTS SHALL BE SCHEDULE 40 PVC. RACEWAY BURIAL DEPTH SHALL BE AS PER NEC. USE CLEAN SAND BACKFILL FOR ALL BURIED RACEWAY SYSTEMS.

7. CONDUCTORS

USE 98% CONDUCTIVITY COPPER WITH TYPE XHHW-2 INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WRE UP TO AND INCLUDING NO. 8 AWG, STRANDED CONDUCTORS FOR WRE LARGER THAN NO. 8. USE PRESSURE-TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER, SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER.

8. ELECTRIC SERVICE

- A. GENERAL: COMPLY WITH AND COORDINATE ALL REQUIREMENTS OF THE UTILITY COMPANY.
- B. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WITH HIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

9. TELEPHONE SERVICE

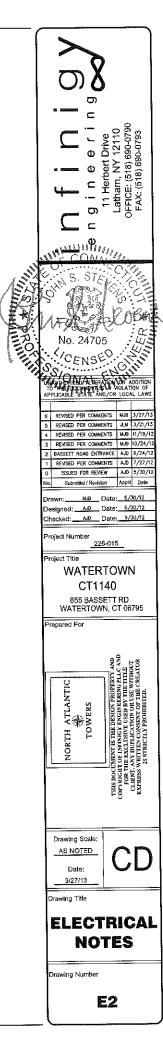
A. GENERAL: INSTALLATION SHALL BE IN ACCORDANCE WITH TELEPHONE UTILITY COMPANY'S RULES AND REGULATIONS. UTILIZE LONG SWEEP BENDS IN ALL TELEPHONE CONDUITS.

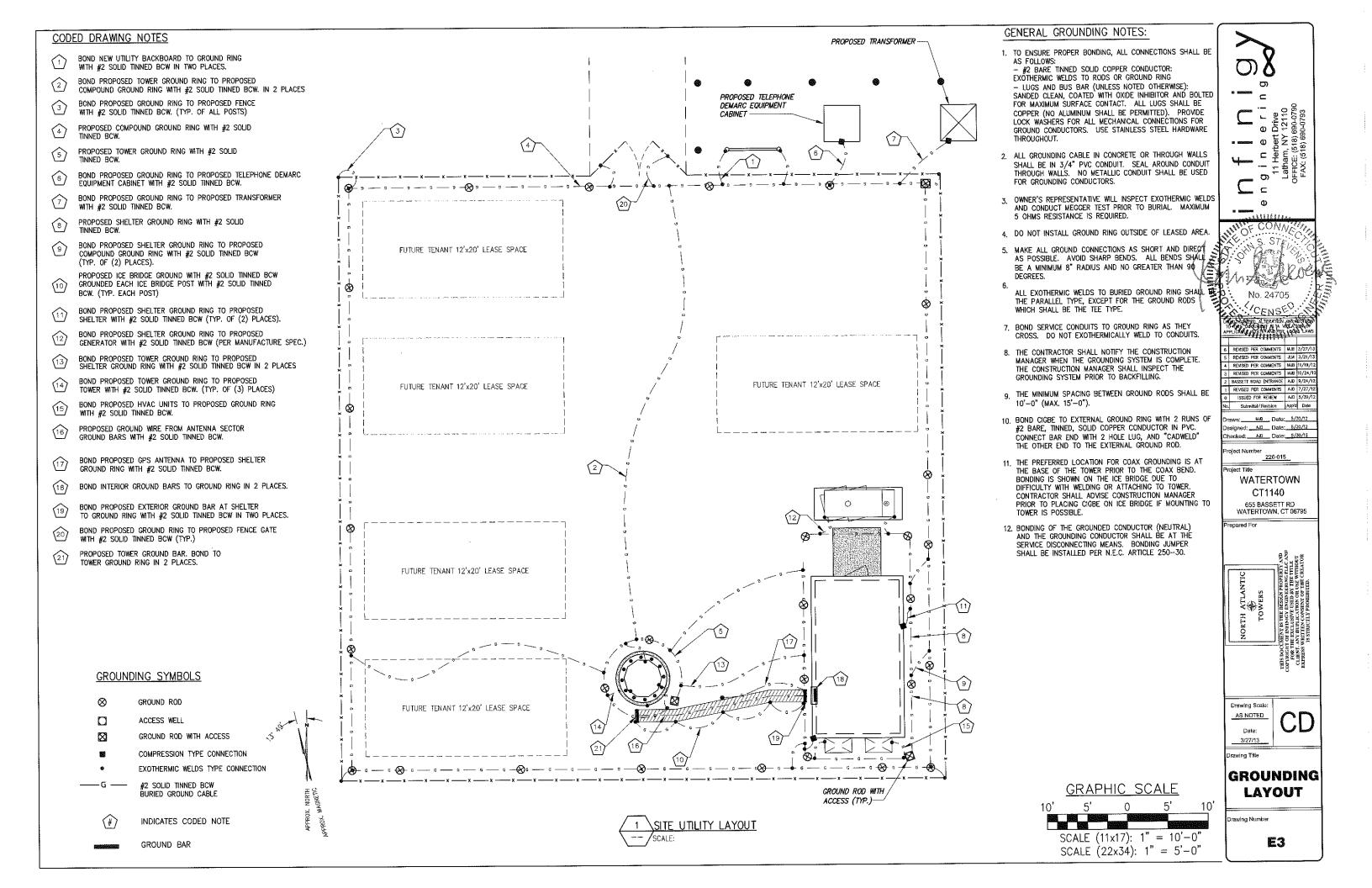
10. GROUNDING SYSTEM

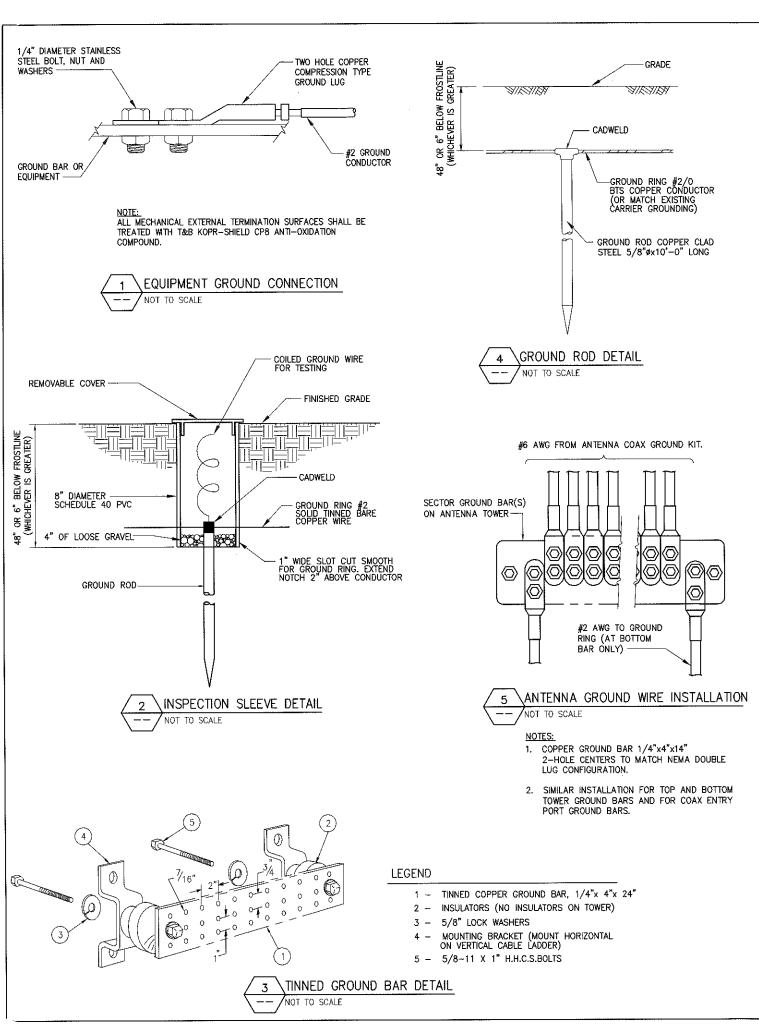
A. INSTALLATION: INSTALL AS INDICATED ON THE DRAWINGS AND AS REQUIRED. OWNER'S REPRESENTATIVE WILL INSPECT CADWELDS AND CONDUCT MEGGER TEST PRIOR TO BURIAL. MAXIMUM 5 OHMS RESISTANCE IS REQUIRED. USE CLEAN SAND AND CLAY BACKFILL FOR BURIED GROUND CONDUCTORS

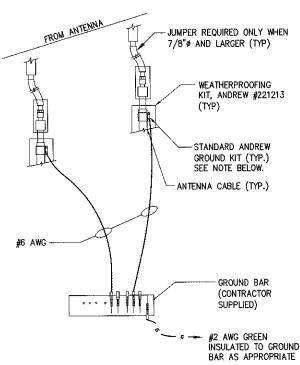
11. CHECKOUT, TESTING AND ADJUSTING

- A. CORRECTION/REPLACEMENT: AFTER TESTING BY CONTRACTOR, OWNER OR ENGINEER, CORRECT ANY DEFICIENCIES AND REPLACE MATERIALS AND EQUIPMENT SHOWN TO BE DEFECTIVE OR UNABLE TO PERFORM AT DESIGN OR RATED CAPACITY.
- B. POWER CONDUCTORS: CONTRACTOR SHALL CONDUCT A CONTINUITY & INSULATION TEST ON CONDUCTORS BETWEEN SERVICE DISCONNECT SWITCH & POWER CABINET.
- C. WHEN SITE POWER IS DERIVED FROM 3 PHASE SOURCE LOAD READINGS WILL BE TAKEN AND RECORDED TO MAINTAIN A BALANCED LOAD AT THE PRIMARY SOURCE. RECORDS SHALL BE TURNED TO THE OWNER'S REPRESENTATIVE.

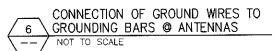


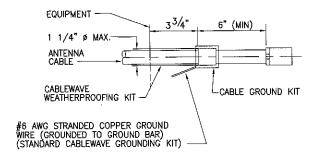


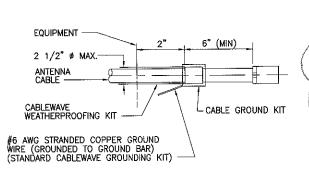




NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND ALWAYS DIRECT
GROUND WIRE DOWN TO CIGBE.



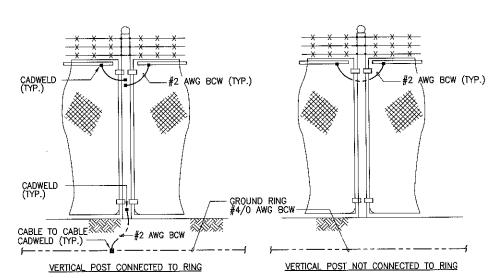




TO ANTENNA CABLE

NOTE:
DO NOT INSTALL CABLE GROUND KIT AT A BEND AND
ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.





NOTES

- 1. VERTICAL POSTS SHALL BE BONDED TO THE RING AT EACH CORNER AND AT EACH GATE POST. AS A MINIMUM ONE VERTICAL POST SHALL BE BONDED TO THE GROUND RING IN EVERY 100 FOOT STRAIGHT RUN OF FENCE.
- 2. HORIZONTAL POLES SHALL BE BONDED TO EACH OTHER.
- BOND EACH HORIZONTAL POLE/BRACE TO EACH OTHER AND TO EACH VERTICAL POST THAT IS BONDED TO THE EXTERIOR GROUND RING.



