PROJECT: **NSB** 

SITE #: **WI2122** FA #: 15515909

PTN #: 3352A0YCGH PACE #: MRCHI058250 JURISDICTION: CITY OF RACINE

**SITE NAME: RACINE WATER TANK** 

**ADDRESS:** 1506 PERRY AVE. **RACINE. WI 53406** 



#### PROJECT INFORMATION

SITE NAME: COUNTY ADDRESS:

RACINE WATER TANK CITY OF RACINE 1506 PERRY AVE. RACINE, WI 53406 **ZONING DISTRICT:** CITY OF RACINE SITE NUMBER: FA NUMBER: 15515909 PTN #: 3352A0YCGH PACE: MRCHI058250

LATITUDE: LONGITUDE:

USID:

42° 42' 49.1" N (42.71365°) 87° 50' 24.5" W (-87.840150°)

PROPERTY OWNER:

RACINE WATER UTILITY 730 WASHINGTON AVE.

POWER COMPANY: FIBER VENDOR:

WE ENERGIES

PHONE (888) 901-2779

APPLICANT:

AT&T WIRELESS 95 W ALGONQUIN RD. ARLINGTON HEIGHTS, IL 60005

#### PROJECT CONSULTANTS

PROJECT MANAGEMENT:

CONTACT: DANIEL KALINA
EMAIL: DANIEL.KALINA@NEXIUS.COM

PHONE: (630) 946-7741

ARCHITECTURE & **ENGINEERING:** 

JOHN M. BANKS 604 FOX GLEN BARRINGTON, IL 60010 PHONE: (847)-277-0070

SITE ACQUISITION:

NEXIUS CONTACT: DANIEL KALINA EMAIL: DANIEL.KALINA®NEXIUS.COM PHONE: (630) 946-7741

AT&T CONSTRUCTION

MANAGER:

PHONE: (847) 330-3471 EMAIL: IO1826@ATT.COM

IFEY ONUA

SCOPE OF WORK

THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:

INSTALL (1) PROPOSED 85'-0" MONOPOLE, INSTALL NEW ELECTRICAL AND FIBER SERVICE, INSTALL (1) PROPOSED ANTENNA PLATFORM WITH HANDRAIL KIT. INSTALL (6) PROPOSED AT&T PANEL ANTENNAS 2 PER SECTOR (TYP. OF 3 SECTORS), INSTALL (12) PROPOSED AT&T RRUS 4 PER SECTOR (TYP. OF 3 SECTORS), INSTALL PROPOSED AT&T W.U.C. AND PROPOSED AT&T GENERATOR ON CONCRETE PAD, INSTALL (2) DC9 SQUIDS, INSTALL (6) PROPOSED AT&T 6 AWG DC TRUNK LINES, INSTALL (1) PROPOSED AT&T 24 PAIR FIBER LINES, INSTALL PROPOSED DC/FIBER JUMPERS.

# VICINITY MAP LOCAL MAP O lo SITE SIGNAGE NORTH NOT TO SCALE NOT TO SCALE NORTI-

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NOTES & SPECIFICATIONS

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**GROUNDING DETAILS** 

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**E2** 

E3

E4

E5

E6

RF

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ow what's below.

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REQUIRES MIN OF 2
WORKING DAYS NOTICE
BEFORE YOU EXCAVATE Know what's below.

#### CODE COMPLIANCE

- TIA/EIA-222-H
- WISCONSIN STATE BUILDING CODE WISCONSIN STATE ELECTRIC CODE

#### REFERENCE MATERIALS

CONTRACTOR TO USE LATEST VERSION OF THE RFDS DATED TBD WITH THE CD's PER SCOPE OF WORK.

#### SCAN FOR DRIVING DIRECTIONS



## SPECIAL NOTES

- ALL WORK SHALL BE INSTALLED IN CONFORMANCE WITH CURRENT AT&T CONSTRUCTION INSTALLATION GUIDE.

  EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.

  THESE DEMINISTRATE ARE THE STEP OF CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.
- THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 11"X17" SHEET SIZE.
  STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED. —SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.

#### DO NOT SCALE DRAWINGS

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



**NEXIUS** DANIEL KALINA SITE ACQUISITION SPECIALIST PHONE: 630-946-7741 DANIEL.KALINA@NEXIUS.COM



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**NSR** 15515909/WI2122 RACINE WATER TANK 1506 PERRY AVE. RACINE, WI 53406

REVISIONS								
REV.	DATE	DESCRIPTION	INITIALS					
В	09/07/21	ISSUED FOR REVIEW	DS					
A	08/13/21	ISSUED FOR REVIEW	CG					

TITLE SHEET "I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERD ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN"

SHEET TITLE SHEET NUMBER



CONTRACTOR / CM - NEXIUS SUB-CONTRACTOR - PER TRADE OWNER - AT&T WIRELESS

- 2. SITE WORK (IF APPLICABLE) SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
- 3. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO DEPICT THE DESIGN INTENT OF THE INSTALLATION.
- 4. ANY MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
- 5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY
- 6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL DOCUMENT & PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
- 7. CONTRACTOR / SUBCONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS CAUSED BY CONSTRUCTION.
- SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
  CONTRACTOR SHALL VERIFY EXISTING BURIED AND OVERHEAD UTILITIES PRIOR TO EXCAVATION. CONTRACTOR SHALL REPAIR ANY UTILITIES DAMAGED DURING THE COURSE OF CONSTRUCTION AND COORDINATE ANY REPAIRS WITH UTILITY COMPANY.
- 9. N /A
- 10. N/A
- SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY.

#### **SITE PREPARATION:**

#### SUB-CONTRACTOR'S SCOPE OF WORK

- PROTECTION OF EXISTING TREES, VEGETATION AND LANDSCAPING
- MATERIALS WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES. CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- TOPSOIL STRIPPING AND STOCKPILING.
- TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.

#### SUB-CONTRACTORS QUALITY ASSURANCE

- SUB-CONTRACTOR SHALL BE COMPLETELY RESPONSIBLE FOR CONTAINMENT OF SEDIMENT AND CONTROL OF EROSION ON SITE, ANY DAMAGE TO ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE SUB-CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 2. SUB-CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AT ALL TIMES. DO NOT ALLOW WATER TO STAND OR POND. ANY DAMAGE TO STRUCTURES OR WORK ON SITE CAUSED BY INADEQUATE MAINTENANCE OF DRAINAGE WILL BE THE RESPONSIBILITY OF THE SUB-CONTRACTOR AND COST ASSOCIATED WITH REPAIRS FOR SUCH DAMAGE WILL BE AT THE SUB-CONTRACTORS EXPENSE.

#### SITE WORK:

#### EARTHWORK AND DRAINAGE

#### PART 1 - GENERAL

- WORK INCLUDED: SEE SITE PLAN.
- DESCRIPTIONS

ACCESS DRIVE W/ TURNAROUND AREA, LEASE AREA, AND IF APPLICABLE UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED. EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.

#### 3. QUALITY ASSURANCE

A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED)

B. APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (IF REQUIRED)

. PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT. AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.

#### 4. SEQUENCING

A. CONFIRM SURVEY STAKES AND SET ELEVATION STAKES PRIOR TO ANY CONSTRUCTION.

B. COMPLETELY GRUB THE ACCESS DRIVE W/ TURNAROUND, UNDERGROUND UTILITY EASEMENTS, (IF APPLICABLE) AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION, PLACEMENT OF BACKFILL AND SUB-BASE MATERIAL.
C. CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG ACCESS DRIVE.

D. BRING THE LEASE AREA AND ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION PRIOR TO INSTALLING FOUNDATION.

E. APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS.

F. GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION, WATER TO ENSURE GROWTH.

G. REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY PROJECT MANAGER. H. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE

#### 5. SUBMITTALS

SURFACES.

A. BEFORE CONSTRUCTION IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD. LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD (REFER TO PI ANS FOR LANDSCAPING REQUIREMENTS).

#### **B. AFTER CONSTRUCTION**

- 1. MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZED.
- 2. MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER
- 3. LANDSCAPING WARRANTY STATEMENT.

#### WARRANTY

A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT

B. SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE ROAD AND SITE AREAS FOR ONE YEAR FROM DATE OF FINAL INSPECTION. C. DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS COVER PRIOR TO

D. LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM DATE OF FINAL INSPECTION.

#### PART 2 - PRODUCTS

#### 1. MATERIALS

A. SOIL STERILIZER SHALL BE EPA-REGISTERED, PRE-EMERGENCE LIQUID:

TOTAL KILL PRODUCT 910 EPA 10292-7 PHASAR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128 (313) 563-8000 AMBUSH HERBICIDE EPA REGISTERED FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083 (800) 526-4924

B. ROAD AND SITE MATERIALS SHALL CONFORM TO TDOT SPECIFICATIONS FILL MATERIAL (UNLESS OTHERWISE NOTED) — ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD

C. SOIL STABILIZER FABRIC SHALL BE MIRAFI - 500X.

#### PART 3 - EXECUTION

#### 1. INSPECTIONS

LOCAL BUILDING INSPECTORS SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, UNLESS OTHERWISE SPECIFIED BY JURISDICTION.

#### 2. PREPARATION

A. CLEAR TREES, BRUSH AND DEBRIS FROM LEASE AREA, ACCESS DRIVE W/ TURN-AROUND AND UNDER GROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION. B. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW GRADE. C. UNLESS OTHERWISE INSTRUCTED BY AT&T, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL. D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL. E. WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.

#### 3. INSTALLATION

A. GRADE OR FILL THE LEASE AREA AND ACCESS DRIVE W/ TURNAROUND AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SPOILS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISHED GRADES, OR INDICATED SLOPES. B. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND <u>DO NOT</u> SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.

C. BRING THE ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION TO FACILITATE CONSTRUCTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE. D. AVOID CREATING DEPRESSIONS WHERE WATER MAY POND. E. THE CONTRACT SHALL INCLUDE GRADING, BANKING, AND DITCHING, UNLESS

OTHERWISE INDICATED. F. WHEN IMPROVING AN EXISTING ACCESS DRIVE, GRADE THE EXISTING DRIVE TO REMOVE ANY ORGANIC MATTER AND SMOOTH THE SURFACE BEFORE

PLACING FILL OR STONE. G. PLACE FILL OR STONE IN SIX (6) INCH MAXIMUM LIFTS, AND COMPACT

REFORE PLACING NEXT LIFT H. THE TOP SURFACE COURSE, SHALL EXTEND A MINIMUM OF ONE (1) FOOT

BEYOND THE SITE FENCE (UNLESS OTHERWISE NOTED) AND SHALL COVER THE AREA AS INDICATED. I. APPLY RIPRAP TO THE SIDE SLOPES OF ALL FENCED SITE AREAS, PARKING

AREAS, AND ALL OTHER SLOPES GREATER THAN 2:1. J. APPLY RIPRAP TO THE SIDES OF DITCHES OR DRAINAGE SWALES.

K. RIPRAP ENTIRE DITCH FOR SIX (6) FEET IN ALL DIRECTIONS AT CULVERT **OPENINGS** 

L. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED. M. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS, OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY. N. IN DITCHES WITH SLOPES GREATER THAN 10%, MOUND DIVERSIONARY HEADWALLS IN THE DITCH AT CULVERT ENTRANCES. POSITION THE HEADWALL AT AN ANGLE NO GREATER THAT 60 DEGREES OFF THE DITCH LINE. RIPRAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX (6) FEET ABOVE THE CULVERT ENTRANCE. O. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL

ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND LOOSEN THE SOIL.

P. SOW SEED IN TWO DIRECTIONS IN TW.U.C.E THE QUANTITY RECOMMENDED BY THE







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## JOHN M. BANKS ARCHITECT

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NSR 15515909/WI2122 RACINE WATER TANK 1506 PERRY AVE. RACINE. WI 53406

REV.	DATE	DESCRIPTION	INITIALS
В	09/07/21	ISSUED FOR REVIEW	DS
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A	06/13/21	ISSUED FOR REVIEW	CG
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	II NOILS &
	SPECIFICATIONS
HEREBY CERTIFY THAT THESE PLANS WERE PARED BY ME OR UNDER MY DIRECT SUPERVISION OF THAT I AM A DULY REGISTERED ARCHITECT UNDER	
THE LAWS OF THE STATE OF WISCONSIN"	

SHEET TITLE

NOTES &

#### 4. FIELD QUALITY CONTROL

COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.

A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.

B. ALL TREES PLACED IN CONJUNCTION WITH A LANDSCAPE CONTRACT WILL BE WRAPPED, TIED WITH HOSE PROTECTED WIRE, AND SECURED TO 2" X 2" X 4'-0" WOODEN STAKES EXTENDING TWO-FEET INTO THE GROUND ON FOUR SIDES OF THE

C. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. PLACE STRAW BALES AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS. WHERE THE SITE OR ROAD AREAS HAVE BEEN ELEVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SWALE TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.

#### TRENCHING:

#### MATERIALS SUB-CONTRACTOR SHALL:

FILL MATERIAL SHALL BE OBTAINED TO THE MAXIMUM EXTENT POSSIBLE FROM EXCAVATIONS ON SITE. THE STRUCTURAL FILL SHOULD BE SAND AND SHALL BE APPROVED BY THE CONSTRUCTION MANAGER AND SHALL CONFORM TO LOCAL GOVERNING JURISDICTION AND UTILITY COMPANY REQUIREMENTS. THE FILL MATERIAL SHALL CONTAIN NO ORGANIC MATERIAL, ROCKS, OR OBJECTIONABLE MATERIALS AND/OR MATERIALS DESIGNATED AS HAZARDOUS OR INDUSTRIAL BY THE EPA. THE FILL MATERIAL SHALL CONTAIN FINES SUFFICIENT TO FILL ALL VOIDS IN THE MATERIAL. BACKFILL OR BORROW SOIL SHALL BE PLACED IN 6" LOOSE

#### PIPE DETECTION AND IDENTIFICATION SUB-CONTRACTOR SHALL:

UTILIZE WARNING TAPE. ALL UTILITY SERVICE TRENCHES SHALL BE MARKED WITH WARNING TAPE.

#### TRENCH EXCAVATION SUB-CONTRACTOR SHALL:

- 1. DIG TRENCH TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY THE CONSTRUCTION MANAGER. 2. TRENCH LENGTH SHALL BE SUFFICIENT TO ALLOW FOR SATISFACTORY CONSTRUCTION AND INSPECTION OF THE PROJECT WITHOUT ENDANGERING
- OTHER CONSTRUCTION WORK OR ADJACENT FACILITIES 3. DISPOSAL OF EXCESS AND UNSUITABLE EXCAVATION MATERIAL PROPERLY AS DIRECTED BY THE CONSTRUCTION MANAGER.
  4. USE HAND TRENCHING METHODS FOR EXCAVATION THAT CANNOT BE
- ACCOMPLISHED WITHOUT ENDANGERING EXISTING OR NEW STRUCTURES AND OTHER FACILITIES.

#### TRENCH PROTECTION SUB-CONTRACTOR SHALL:

- 1. PROVIDE MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO PROTECT TRENCHES AT ALL TIMES.
- 2. SHEETING AND BRACING TO MEET OR EXCEED OSHA REQUIREMENTS.

#### BACKFILLING SUB-CONTRACTOR SHALL:

- 1. NOTIFY THE CONSTRUCTION MANAGER AT LEAST 24 HOURS IN ADVANCE OF BACKFILLING.
- 2. BACKFILL TRENCH WITH LIFTS UP TO 6" LOOSE MEASURE.
- 3. PROTECT CONDUIT FROM LATERAL MOVEMENT AND DAMAGE FROM IMPACT OR UNBALANCED LOADING TO AVOID DISPLACEMENT OF CONDUIT AND/OR STRUCTURES. DO NOT FREE FALL BACKFILL INTO TRENCH UNTIL AT LÉAST 6" OF COVER IS OVER CONDUIT.

#### COMPACTION SUB-CONTRACTOR SHALL:

COMPACT BACKFILL TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 WITH PLUS OR MINUS 3% OF OPTIMUM MOISTURE CONTENT. 2. IF REQUIRED COMPACTION DENSITY HAS NOT BEEN OBTAINED REMOVE THE BACKFILL FROM THE TRENCH OR STRUCTURE, REPLACE WITH APPROVED BACKFILL AND RE-COMPACT AS SPECIFIED.

ANY SUBSEQUENT SETTLEMENT OF TRENCH OR STRUCTURE BACKFILL DURING THE MAINTENANCE PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL PROMPTLY CORRECTED.

#### FENCING AND GATE(S)

#### PART 1 - GENERAL

1. WORK INCLUDED SEE PLAN FOR SITE AND LOCATION OF FENCE AND GATE(S).
2. QUALITY ASSURANCE ALL STEEL MATERIALS UTILIZED IN CONJUNCTION WITH THIS SPECIFICATION WILL BE GALVANIZED OR STAINLESS STEEL. WEIGHT OF ZINC COATING ON THE FABRIC SHALL NOT BE LESS THAN 12 OUNCES PER SQUARE FOOT OF MATERIAL COVERED. POSTS SHALL BE HOT-DIPPED IN GRADE 'E' ZINC, 18 OUNCES PER SQUARE FOOT.

3. SEQUENCING IF THE SITE AREA HAS BEEN BROUGHT UP TO SURFACE COURSE ELEVATION (PRIOR TO THE FENCE CONSTRUCTION), FENCE POST EXCAVATION SPOILS MUST BE CONTROLLED TO PRECLUDE CONTAMINATION OF SAID SURFACE

#### 4.SUBMITTALS

- A. MANUFACTURER'S DESCRIPTIVE LITERATURE.
- B. CERTIFICATE OR STATEMENT OF COMPLIANCE WITH THE SPECIFICATIONS.

#### PART 2 - PRODUCTS

- 1. FENCE MATERIAL
- A. ALL FABRIC WIRE, RAILS, HARDWARE, AND OTHER STEEL MATERIALS SHALL BE
- B. FABRIC SHALL BE SIX-FOOT HIGH TWO-INCH CHAIN LINK MESH OF NO. 9 GAUGE (0.148") WIRE. THE FABRIC SHALL HAVE A KNUCKLED FINISH FOR THE TOP SELVAGES. FABRIC SHALL CONFORM TO THE SPECIFICATIONS OF ASTM A-392 CLASS 1.
- C. BARBED WIRE SHALL BE DOUBLE-STRAND, 12-1/2 GAUGE TWISTED WIRE, WITH 14-GAUGE, 4-POINT ROUND BARBS SPACED ON FIVE-INCH CENTERS.
  D. ALL POSTS SHALL BE SCHEDULE - 40 MECHANICAL SERVICE PIPE AND SHALL BE TYPE 1 ASTM A-128 AND OF THE FOLLOWING DIAMETER POST 2" SCHEDULE 40 (2 3/8" O.D.) CORNER 3" SCHEDULE 40 (3 1/2" O.D.) GATE 3" SCHEDULE
- 40 (3 1/2" O.D.) E. GATE POSTS SHALL BE EXTENDED 12 INCHES, INCLUDING DOME CAP, TO PROVIDE FOR ATTACHMENT OF BARBED WIRE.
- F. ALL TOP AND BRACE RAILS SHALL BE  $1\frac{1}{2}$  DIAMETER SCHEDULE 40 MECHANICAL-SERVICE PIPE.
- G. GATE FRAMES AND BRACES SHALL BE 1.90 INCH DIAMETER SCHEDULE 40 MECHANICAL—SERVICE PIPE. FRAMES SHALL HAVE WELDED CORNERS.
  H. GATE FRAMES SHALL HAVE A FULL—HEIGHT VERTICAL BRACE, AND A FULL—WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE
- CL AMPS I. GATE HINGES SHALL BE MERCHANTS METAL MODEL 64386 HINGE ADAPTER WITH MODEL 6409, 188-DEGREE ATTACHMENT.
- J. THE GUIDE (LATCH ASSEMBLY) SHALL BE HEAVY INDUSTRIAL DOUBLE GATE LATCH, SEE DETAIL.
- K. LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES L. PLUNGER ROD COMPLETE WITH RECEPTOR TO BE PROVIDED AT THE INACTIVE LEAF OF ALL DOUBLE GATE INSTALLATIONS.
- M. ALL STOPS SHALL HAVE KEEPERS CAPABLE OF HOLDING THE GATE LEAF IN
- THE OPEN POSITION
  N. A NO. 7 GAUGE ZINC COATED TENSION WIRE SHALL BE USED AT THE BOTTOM OF THE FABRIC, TERMINATED WITH BAND CLIPS AT CORNER AND GATE POSTS. ATOP EACH LINE/CORNER POST.
- O. A SIX-INCH BY 1/2-INCH DIAMETER EYEBOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE PÓSTS.
- P. STRETCHER BARS SHALL BE 3/16-INCH BY 3/4-INCH OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
- Q. ALL CORNER GATE AND PANELS SHALL HAVE A 3/8-INCH TRUSS ROD WITH
- R. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM. GATE POSTS SHALL HAVE A DOME CAP. S. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO TIE CLIPS, BAND CLIPS
- AND TENSION BAND CLIPS. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS. BARBED WIRE SUPPORT ARMS SHALL BE PRESSED STEEL COMPLETE WITH SET
- BOLT AND LOCK WIRE IN THE ARM. V. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR ACORN SHAPED AS REQUIRED BY PIPE SIZE.
- W. WHERE THE USE OF CONCERTINA HAS BEEN SPECIFIED, 24-INCH DIAMETERS COIL. BARBED TAPE, STAINLESS STEEL, CYCLONE FENCE MODEL G8P TO TYPE III SHALL BE FURNISHED. IT SHALL BE SUPPORTED ABOVE THE TOP RAIL BY USE OF SIX(6) WIRE BARBED WIRE ARMS POSITIONED ATOP EACH LINE/CORNER POST.

#### PART 3 - EXECUTION

#### 1. INSPECTION

TO CONFIRM PROPER DEPTH AND DIAMETER OF POST HOLE EXCAVATIONS. ALL POST HOLES WILL BE EXCAVATED AS PER CONSTRUCTION DOCUMENTS.

#### 2. INSTALLATION

A. FOUNDATIONS SHALL HAVE A MINIMUM SIX (6) INCH CONCRETE COVER UNDER POST. B. ALL FENCE POSTS SHALL BE VERTICALLY PLUMB; ONE QUARTER (1/4) INCH C. AT CORNER POSTS, GATE POSTS, AND SIDES OF GATE FRAME, FABRIC SHALL BE ATTACHED WITH STRETCHER AND TENSION BAND-CLIPS AT FIFTEEN(15) INCH

D. AT LINE POSTS, FABRIC SHALL BE ATTACHED WITH BAND-CLIPS AT FIFTEEN (15) INCH INTERVALS.

E. FABRIC SHALL BE ATTACHED TO BRACE RAILS, TENSION WIRE AND TRUSS RODS WITH TIE-CLIPS AT TWO (2) FOOT INTERVALS.

F. A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN TIE CHAIN LINE FABRIC

AND THE FINAL GRADE.

G. GATE SHALL BE INSTALLED SO LOCKS ARE ACCESSIBLE FROM BOTH SIDES. H. GATE HINGE BOLTS SHALL HAVE THEIR THREADS PEENED OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.

I. CONCRETE TO BE A MINIMUM OF 3,000 PSI.

UPON COMPLETION OF ERECTION, INSPECT FENCE MATERIAL AND PAINT FIELD CUTS OR GALVANIZING BREAKS WITH ZINC-BASED PAINT, COLOR TO MATCH THE GALVANIZED METAL.

#### APPLICABLE STANDARDS

SPECIFICATION FOR PIPE, STEEL BLACK AND HOT-DIPPED ZINC ASTM-A120

COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY

ASTM-A123 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL

ASTM-A153 STANDARD SPECIFICATION FOR ZINC COATING (HOT-DIP) ON IRON AND STEEL HARDWARE.

ASTM-A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE SPECIFICATION FOR ALUMINUM—COATED STEEL CHAIN LINK FENCE STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED FABRIC. ASTM-A491 FABRIC ASTM-A525

(GALVANIZED) BY THE HOT-DIPPED PROCESS ASTM-A570 SPECIFICATION FOR HOT-ROLLED CARBON STEEL SHEET AND

STRIP. STRUCTURAL QUALITY. ASTM-A535 SPECIFICATION FOR ALUMINUM COATED STEEL BARBED WIRE.

FEDERAL SPECIFICATION RR-F-191- FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

#### METALS

#### PART 1 - GENERAL

#### SECTION INCLUDES:

STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, THREADED STRUCTURAL FASTENERS, ANTENNA SUPPORT ASSEMBLIES, GRATING, STEEL PLATFORMS AND PEDESTAL SUPPORTS, AND GROUTING UNDER BASE PLATES.

#### QUALITY ASSURANCE

FABRICATE STRUCTURAL STEEL MEMBERS IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF **STRUCTURAL** 

PERFORM DESIGN UNDER DIRECT SUPERVISION OF A PROFESSIONAL

STRUCTURAL ENGINEER LICENSED IN THE STATE.

#### PART 2 - PRODUCTS

#### 1. MATERIALS:

A. STRUCTURAL STEEL MEMBERS: ASTM A572, GRADE 50

B. STRUCTURAL TUBING: ASTM A500, GRADE B

ASTM A53, TYPE E OR S, GRADE B ASTM A325 D. BOLTS, NUTS, AND WASHERS:

E. ANCHOR BOLTS: ASTM A307

F. WELDING MATERIALS: AWS D1.1, TYPE REQUIRED FOR MATERIALS BEING







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NOTES & **SPECIFICATIONS** 

SHEET TITLE

NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIER ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7000 psi AT 28 DAYS.

H. SHOP AND TOUCH-UP PRIMER: SSPC 15, TYPE 1, RED OXIDE

I. TOUCH-UP PRIMER FOR GALV. SURFACES: ZINC RICH TYPE

CONTINUOUSLY SEAL JOINTED MEMBERS BY CONTINUOUS WELDS. GRIND EXPOSED WELDS SMOOTH. 2. FABRICATION:

3. FINISH:

PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURES

B. STRUCTURAL STEEL MEMBERS SHALL BE HOT DIPPED GALVANIZED

#### PART 3 - EXECUTION

**EXAMINATION AND PREPARATION:** 

1. VERIFY THAT THE FIELD CONDITIONS ARE ACCEPTABLE TO PERFORM THE WORK.

ALLOW FOR ERECTION LOADS. PROVIDE TEMPORARY BRACING TO MAINTAIN FRAMING IN ALIGNMENT UNTIL COMPLETION OF ERECTION AND INSTALLATION OF PERMANENT BRIDGING AND BRACING

2. NO UNAUTHORIZED WELDING SHALL BE PERFORMED ON CROWN CASTLE USA, INC TOWERS. ALL OTHER WELDING SHALL BE IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AWS 01.1 STRUCTURAL STEEL WELDING CODE—STEEL WELD ELECTRODES SHALL BE E70XX. 3. DO NOT FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE

4. AFTER ERECTION, TOUCH-UP WELDS, ABRASIONS, AND SURFACES NOT SHOP PRIMED OR GALVANIZED WITH ZINC RICH PAINT (ALL EXISTING AND NEW AREAS).

FIELD QUALITY CONTROL:

1. FIELD INSPECTION OF MEMBERS, CONNECTIONS, WELDS AND BOLT  $\!\!\!/$  NUT TORQUE .

#### **CONCRETE:**

PART 1 - GENERAL

WORK INCLUDES FORMWORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND CURING.

2. INSPECTIONS

- A. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING BUILDING DEPARTMENT INSPECTIONS REQUIRED FOR THE SCOPE OF WORK BEING PERFORMED.
- B. ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE AT&TWIRELESS CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.
- C. THE AT&TWIRELESS CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.
- QUALITY ASSURANCE
- A. CONSTRUCT AND ERECT CONCRETE FORM WORK IN ACCORDANCE WITH ACI 301 AND ACL 318.
- B. PERFORM CONCRETE REINFORCING WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ASTM A184.
- C. PERFORM CAST-IN-PLACE CONCRETE WORK IN ACCORDANCE WITH ACI 301, ACI 318, AND ACI 117-90.
- 4. SUBMITTALS

SUBMIT CONCRETE MIX DESIGN AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY AT&TWIRELESS CONSTRUCTION MANAGER/ENGINEER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN EH FORM OF TWO (2) CONCRETE MIX DESIGN INFORMATION SHEETS AND TWO (2) BLUELINE DRAWINGS FOR REINFORCING STEEL. PART 2 - PRODUCTS

1. REINFORCEMENT MATERIALS

A. REINFORCEMENT STEEL, ASTM A615, 60KSI YIELD GRADE, REINFORCING STEEL RODS, PLAIN FINISH.

B. WELDED STEEL WIRE FABRIC ASTM A185 PLAIN TYPE, IN FLAT SHEETS, PLAIN

C. CHAIRS, BOLSTERS, BAR SUPPORTS, SPACERS, SIZED AND SHAPED FOR SUPPORTS OF REINFORCING.

D. FABRICATE CONCRETE REINFORCING IN ACCORDANCE WITH ACI 315, AND ACI 318, AND ASTM A184.

2. CONCRETE MATERIALS

A. CEMENT: ASTM C150, PORTLAND TYPE.

B. FINE AND COURSE AGGREGATES: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ONE (1) INCH SIZE SUTABLE FOR INSTALLATION METHOS UTILIZED FOR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.

C. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.

D. AIR ENTRAINING ADMIZTURE: ASTM C260.

E. BONDING AGENT: LATEX EMULSION FOR BONDING NEW TO OLD CONCRETE AS MANUFACTURED BY DAYTON SUPERIOR.

F. NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICISING AGENTS.

3. CONCRETE MIX

A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.

B. MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94, ALT, 3.

C. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER F4 SHALL BE SATASFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. PROVIDE CONCRETE AS FOLLOWS:

1. COMPRESSIVE STRENGTH 4000 PSI AT 28 DAYS. 2. SLUMP: 3 INCHES.

#### **EXECUTION:**

1. INSERTS, EMBEDDED COMPONENTS AND OPENINGS

- A. THE CONTRACTOR SHALL COORDINATE AND CROSS CHECK ARCHITECTURAL, BUILDING AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHORS, HANGERS, AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL\_ RESPONSIBILITY FOR THE PROPER LOCATION BEFORE PLACING CONCRETE.
- B. PROVIDE FORMED OPENINGS WHERE REQUIRED FOR WORK TO BE EMBEDED IN AND PASSING THROUGH CONCRETE MEMBERS.
- C. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENINGS, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS, ANCHORS, AND OTHER INSERTS.
- D. INSTALL CONCRETE ACCESSORIES STRAIGHT, LEVEL ND PLUMB.
- 2. REINFORCEMENT PLACEMENT
- A. PLACE REINFORCEMENT, SUPPORTED AND SECURED AGAINST DISPLACEMENT.
- B. ENSURE REINFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR OTHER FOREIGN COATINGS
- C. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- D. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3 INCHES UNLESS NOTED
- E. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES OR BE LESS THAN 2 INCHES.

3. PLACING CONCRETE

A. VIBRATE ALL CONCRETE.

B. ALL CONCRETE WORK SHALL ADHERE TO THE LATEST A.C.I. STANDARDS FOR WINTER POURING AND CURING PROCEDURES IF SEASONAL CONDITIONS APPLY.

4. CURING

A. AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING.

B. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSISTENT TEMPERATURE FOR A PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

5. PROVIDE HAND RUBBED SMOOTH FINISH TO ALL EXPOSED VERTIACAL FORMED CONCRETE SURFACES.

6. FIELD QUALITY CONTROL

- A. SUBMIT THREE (3) CONCRETE TEST CYLINDERS TAKEN EVERY 15 CUBIC YARDS OR LESS. SUBMIT CONCRETE TESTS TO THE PROJECT MANAGER IN ACCORDANCE TO ASTM C-31 AND C-39.
- B. SUBMIT ONE (1) ADDITIONAL TEST CYLINDER TAKEN DURING COLD WEATHER POURS, AND CURED ON JOB SITE UNDER THE SAME CONDITIONS AS THE CONCRETE
- C. SUBMIT ONE (1) SLUMP TEST TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.
- 7. DEFECTIVE CONCRETE

MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED SPECIFICATIONS, DETAILS OR ELEVATIONS AS DIRECTED BY THE AT&TWIRELESS CONSTRUCTION MANAGER.

GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL MATERIALS, EQUIPMENT AND INSTALLATION PROCEDURES TO CONFORM WITH AT&TWRELESS SPECIFICATIONS.
- 2. CONTRACTOR SHALL PERFORM ALL VERIFICATION TESTS AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ENGINEER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- 3. ALL MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NFPA, AND 'UL' LISTED.
- 4. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED PER THE NEC. AND ALL APPLICABLE LOCAL CODES.
- 5. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE A MINIMUM INTERRUPTING RATING OF 42,000 AIC.
- 6. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY AT&TWIRELESS FOR BTS CABINET.
- 7. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF
- PROVIDE AT&TWIRELESS WITH ONE SET OF COMPLETE ELECTRICAL 'AS-BUILT' DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL ROUTINGS AND WIRING
- ALL SINGLE-PHASE SELF CONTAINED METER CONNECTION DEVICES MUST INCLUDE HORN TYPE BY-PASS PROVISION SO THAT SERVICES WILL NOT BE INTERRUPTED 9. HEN A METER IS REMOVED FROM THE SOCKET.
- ALL EQUIPMENT PUNCH OUTS AND CONDUITS (USED AND SPARE) TO BE RODENT PROOFED WITH CAPS, STEEL MESH, AND/OR FOAM FILL BY CONTRACTOR AS
- 11. NO SPOILS TO BE LEFT ON SITE WITHOUT THE WRITTEN CONSENT OF THE I ANDOWNER.
- 12. CONTRACTOR TO PROVIDE 2 PHENOLIC LABELS AT METER ONE TO IDENTIFY 'AT&TWIRELESS DISCONNECT' AND THE OTHER TO GIVE THE SITE ADDRESS.
- 13. ALL CONTRACTOR FURNISHED MATERIALS AND EQUIPMENT SPECIFIED ON THE PROJECT SHALL BE NEW AND UNUSED, OF CURRENT MANUFACTURE AND OF THE HIGHEST GRADE.







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NOTES & **SPECIFICATIONS** 

SHEET TITLE

SP3

- 15. ALL ELECTRICAL ITEMS BOTH CONTRACTOR AND OWNER FURNISHED SHALL BE CHECKED FOR AGREEMENT WITH THE PROJECT DRAWINGS AND SPECIFICATIONS AND SHALL BE VISUALLY INSPECTED TO ENSURE THAT EQUIPMENT IS UNDAMAGED AND IS IN PROPER ALIGNMENT, INSTALLED PER MANUFACTURER'S INSTRUCTIONS, ELECTRICAL CONNECTIONS ARE TIGHT AND PROPERLY INSULATED WHERE REQUIRED. FUSES ARE OF THE PROPER TYPE AND SIZE, AND ELECTRICAL ENCLOSURES ARE OF THE
- 16. NOTIFY OWNER IN WRITING OF ALL DISCREPANCIES BETWEEN DRAWINGS , SPECIFICATIONS AND FIELD INSTALLATIONS, OR IF THE VISUAL INSPECTIONS SHOW DAMAGE OR IMPROPER INSTALLATION
- 17. THE EQUIPMENT AND MATERIALS SHALL BE FURNISHED AND INSTALLED TO OPERATE SAFELY AND CONTINUOUSLY WITH NO PROTECTION FROM THE WEATHER.
- ELECTRICAL WORK REPRESENTED ON THE PROJECT DRAWINGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS AND ELEVATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND VERIFIED WITH THE OWNER'S
- 19. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF TEMPORARY, IF REQUIRED, AND PERMANENT POWER WITH THE LOCAL UTILITY COMPANY. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.
- 20. PROVIDE MOLDED CASE, BOLT ON, THERMAL MAGNETIC TRIP, SINGLE TWO OR THREE POLE CIRCUIT BREAKERS. MULTIPLE POLE CIRCUIT BREAKERS SHALL BE SINGLE HANDLE COMMON TRIP. SHORT CIRCUIT INTERRUPTING RATING SHALL BE AS REQUIRED FOR AVAILABLE FAULT CURRENTS. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE A SHORT CIRCUIT INTERRUPTING RATING EQUAL TO OR GREATER THAN THAT SHOWN ON THE PROJECT DRAWINGS.
- CONTRACTOR SHALL PERFORM ALL EXCAVATION, TRENCHING, BACKFILLING, AND REMOVAL OF DEBRIS IN CONNECTION WITH THE ELECTRICAL WORK IN ACCORDANCE WITH THE PROJECT DRAWINGS. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND UTILITIES AND GROUND WITH THE FOUNDATION INSTALLATION. HAND DIGGING WILL BE REQUIRED IN THE COMPOUND ONLY.
- 22. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUPPORTS FOR EQUIPMENT INSTALLED AS PART OF THIS PROJECT. SUPPORTS SHALL CONSIST OF GALVANIZED STEEL FRAMES, PLATES, BRACKETS, RACKS AND OTHER SHAPES OF ADEQUATE SIZE AND FASTENED WITH BOLTS, SCREWS OR BY WELDING TO PROVIDE RIGID SUPPORT.
- 23. CONTRACTOR SHALL CALL THE APPROPRIATE UTILITIES PROTECTION SERVICE BEFORE ANY UNDERGROUND WORK IS PERFORMED, SUCH AS TRENCHING, EXCAVATING, AND DRIVING GROUNDING RODS.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENTLY ENGRAVED LAMINATED PHENOLIC NAMEPLATES. (MINIMUM LETTER HEIGHT SHALL BE 1/2") NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS AND AS PER AT&TWIRELESS SPECIFICATIONS.

#### **GENERAL RACEWAY NOTES:**

- CONDUIT AND CONDUIT FITTINGS SHALL MEET ANSI AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP AND SHALL BE UL LISTED.
- A. RIGID STEEL CONDUIT SHALL CONFORM TO ANSI C801 AND REQUIREMENTS OF NEC. PARAGRAPH 346 AND BE STANDARD WEIGHT, MILD RIGID STEEL, HOT DIP GALVANIZED WITH INSIDE AND OUTSIDE FINISHED WITH A PROTECTIVE ZINC COATING. COUPLING ELBOWS AND BENDS SHALL MEET THESE SAME REQUIREMENTS. FITTINGS SHALL BE OF THE GALVANIZED IRON OR STEEL THREADED TYPE.
- B. PVC CONDUIT SHALL CONFORM TO UL STANDARD 651-89 AND THE REQUIREMENTS OF NEC, PARAGRAPH 347. CONDUIT SHALL BE HEAVY WALL TYPE, SCHEDULE 40 OR 80, AND SUNLIGHT RESISTANT. FITTINGS SHALL BE OF THE UNTHREADED SOLVENT CEMENT TYPE.
- C. EMT CONDUIT (FOR USE BEHIND WALLS OR ABOVE SUSPENDED CEILINGS ONLY).
  ELECTRIC METALLIC TUBING SHALL CONFORM TO ANSI CB03 AND THE REQUIREMENTS OF NEC, PARAGRAPH 348 AND BE PROTECTED ON EXTERIOR WITH A ZINC COATING AND ON INTERIOR SURFACES WITH EITHER A ZINC COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ZINC COATED STEEL.
- 2. MINIMUM CONDUIT SIZE SHALL BE 3/4", SIZES NOT SHOWN ON DRAWINGS SHALL BE PER NEC.

- 3. ALL SPARE CONDUITS SHALL HAVE A METALLIC PULL WIRE.
- 4. CONDUIT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND IN ACCORDANCE WITH THE NEC.
- 5. UNDERGROUND CONDUITS.
- A. INSTALL A WARNING TAPE TWELVE INCHES ABOVE EACH CONDUIT OR SET OF
- B. IDENTIFY EACH CONDUIT AT BOTH ENDS. INSTALL MINIMUM OF 3'-0" BELOW THE FINISHED GRADE, OR DEEPER IF NOTED ON PLAN DRAWINGS.
- C. SLOPE A MINIMUM OF 4" PER 100'-0" TO DRAIN AWAY FROM BUILDINGS AND EQUIPMENT.
- D. USE MANUFACTURED ELECTRICAL ELBOWS AND FITTINGS FOR BELOW GRADE
- E. MAKE JOINTS AND FITTINGS WATERTIGHT ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- F. INSTALL A COUPLING BEFORE EACH WALL PENETRATION.
- G. RESTORE SURFACE FEATURES DISTURBED BY EXCAVATION (AND TRENCHING) IN ALL AREAS.

#### **GENERAL CONDUCTOR NOTES:**

- ALL POWER, CONTROL AND COMMUNICATION WIRING SHALL MEET NEMA-WC, ASTM, UL, AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP UNLESS OTHERWISE
  - A. SERVICE ENTRANCE CONDUCTORS SHALL BE COPPER, 600 VOLT, SUNLIGHT RESISTANT, SUITABLE FOR WET LOCATIONS, TYPE USE-2. THE GROUNDED NEUTRAL CONDUCTOR SHALL BE IDENTIFIED WITH A WHITE MARKING AT EACH
  - B. CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS SHALL BE COPPER 600 VOLT, TYPE THHN / THWN WITH A MINIMUM SIZE OF #12 AWG.
- 2. ALL CONDUCTOR ACCESSORIES INCLUDING CONNECTORS, TERMINATIONS, INSULATING MATERIALS, SUPPORT GRIPS, MARKER AND CABLE TIES SHALL BE FURNISHED AND INSTALLED SUPPLIER'S INSTALLATION INSTRUCTIONS SHALL BE OBTAINED FOR CABLE ACCESSORIES. THESE INSTRUCTIONS SHALL BE IN THE POSSESSION OF THE CRAFTSMAN WHILE INSTALLING THE ACCESSORIES AND SHALL BE AVAILABLE TO THE
- . WHERE POSSIBLE, NO. 6 AWG AND SMALLER WIRE SHALL BE COLORED CODED BY THE COLOR OF THE INSULATION COVERING. COLOR CODING OF WIRE LARGER THAN NO. 6 AWG MAY BE BY MEANS OF SELF-ADHESIVE WRAP AROUND TYPE MARKERS, PER NEC.
- 4. TERMINAL CONNECTOR FOR CONDUCTORS 8 AWG AND LARGER SHALL BE PRESSURE OR BOLTED CLAMP TYPE BURNDY QUIKLUG, VARILUG OR ACCEPTABLE EQUAL: OR COMPRESSION TYPE, BURNDY TYPE YAV OR YA (LONG BARREL), PANDUIT TYPE LCA OR LCC, OR ACCEPTABLE EQUAL. ACCEPTABLE CONNECTORS INCLUDED WITH COMPANY-FURNISHED EQUIPMENT MAY BE USED.
- 5. TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED 100 AMPERES OR LESS OR MARKED FOR NOS. 14 THROUGH 1 CONDUCTORS. SHALL BE USED ONLY FOR CONDUCTORS RATED 66°C (140°F). CONDUCTORS WITH HIGHER TEMPERATURE RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OR THE CONDUCTOR SIZE USED.
- 6. TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED OVER 100 AMPERES, OR MARKED FOR CONDUCTORS LARGER THAN NO.1 SHALL BE USED ONLY FOR CONDUCTORS RATED 75°C (167°F) CONDUCTORS WITH HIGHER TEMPERATURE RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASED UPON THE 75°C (167°F) AMPACITY OF THE CONDUCTOR SIZE USED.
- 7. ALL 600 VOLT OR LESS WIRING, WHERE COMPRESSION TYPE CONNECTORS ARE USED, SHALL BE INSULATED WITH AT LEAST ONE TURN OF 'SCOTCHFILL' ELECTRICAL INSULATING PUTTY AND THEN COVERED WITH TWO HALF TURNS OF TAPE SIMILAR TO 3M COMPANY'S '33 PLUS (33+) PLASTIC TAPE OR 88 OUTDOOR TAPE.
- 8. TERMINAL CONNECTORS FOR CONDUCTORS SMALLER THAN 8 AWG SHALL BE COMPRESSION TYPE CONNECTORS SIZED FOR THE CONDUCTOR AND THE TERMINAL. THE CONNECTORS SHALL BE CONSTRUCTED OF FINE GRADE HIGH CONDUCTIVITY COPPER IN ACCORDANCE WITH QQ-C-516 AND SHALL BE TIN-PLATED IN ACCORDANCE WITH MIL-T-10727. THE INTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALL BE SERRATED AND THE EXTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALE BE PROVIDED WITH CRIMP GUIDES.

#### **GENERAL GROUNDING NOTES:**

- ALL WORK SHALL COMPLY WITH THE LATEST AT&TWIRELESS GROUNDING SPECIFICATIONS AND REQUIREMENTS.
- 2. ALL METALLIC COMPONENTS ON THE SITE MUST BE GROUNDED TO THE GROUND RING. THIS INCLUDES STEEL CONDUITS USED TO DELIVER THE TELCO AND POWER UTILITY LINES TO THE SITE OR USED TO PROVIDE ACCESS BY UTILITIES OR CONTRACTORS TO THE VARIOUS CABINETS.
- 3. ALL GROUND LEADS ABOVE GRADE SHALL BE INSTALLED IN 1/2" SEAL TIGHT.
- 4. WHEN EARTH RESISTANCE TEST INDICATES THAT THE SOIL IS ABOVE MINIMUM ALLOWABLE RESISTANCE, THAN THE CONTRACTOR SHALL ESTIMATE THE TYPE, NUMBER AND ARRANGEMENT OF EARTH ELECTRODES. CONTRACTOR SHALL ALSO CONSIDER COMPANY'S SITE SPECIFIC APPROACHES FOR IMPROVING EARTH RESISTANCE AT THE SITE BY METHODS INDICATED BELOW:

- RAW LAND
  A. USE MULTIPLE RODS
- B. LENGTHEN THE EARTH ELECTRODE
- C. TREAT THE SOIL
- D. USE CHEMICAL RODS
- 5. THE CONTRACTOR MUST VERIFY THAT NEW GROUNDING SYSTEM RESISTANCE IS EQUAL TO OR LESS THAN FIVE (5) OHMS PER AT&TWIRELESS SPECIFICATIONS.
- 6. RUN ALL GROUND WIRES IN AN ORGANIZED MANNER, AVOID CROSSING OF WIRES WHEREVER POSSIBLE. DO NOT RUN WIRES OVER CONCRETE SLAB.
- INSTALL ALL GROUND WIRES IN A DOWNWARD SLOPE FOR MAXIMUM LIGHTNING
- 8. MAINTAIN ALL MINIMUM BENDING RADII OF THE GROUNDING WIRES.
- DO NOT REMOVE MORE INSULATION FROM THE GROUND WIRES THAN NECESSARY 9. WHEN CADWELDING OR CRIMPING IF EXCESS INSULATION IS REMOVED, THE CONNECTION WILL BE CONSIDERED UNACCEPTABLE AND WILL BE CORRECTED PER THE AT&TWIRELESS REPRESENTATIVES'S DIRECTION.
- 10. DOWN LEAD FOR ANTENNA SECTORS MUST BE CONNECTED DIRECTLY TO THE GROUND
- ALL BASE TRANSCEIVER SITE EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE INTERNATIONAL ELECTRICAL CODE (NEC), AND THE LATEST EDITION OF LIGHTNING PROTECTION CODE NFPA 780 AND AT&TWRELESS STANDARDS.
- 12. THE ELECTRICAL SERVICE TO THE SITE SHALL BE GROUNDED AT THE SERVICE DISCONNECTING MEANS REQUIRED IN ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, 19. IN ACCORDANCE WITH ANY LOCAL CODE.
- 13. ALL UNDERGROUND (BELOW GRADE) GROUNDING CONNECTIONS SHALL BE MADE BY THE CADWELD PROCESS (MECHANICAL LUG ATTACHMENTS BELOW GRADE ARE NOT ACCEPTABLE). CONNECTIONS SHALL INCLUDE ALL CABLE SPLICES (TEES, X'S, ETC.) ALL CABLE CONNECTIONS TO GROUND RODS, GROUND ROD SPLICES, AND LIGHTING PROTECTION SYSTEM AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METALS, TOOLS, ETC.) SHALL BE BY CADWELD AND INSTALLED PER MANUFACTURERS RECOMMENDATION AND PROCEDURES.
- 14. ALL GROUNDING AND BONDING CONDUCTORS THAT ARE CONNECTED ABOVE GRADE INTERIOR TO A BUILDING SHALL BE CONNECTED USING TWO HOLE CRIMP TYPE (COMPRESSION) CONNECTORS FOR #2 AND #6 AWG INSULATED COPPER CONDUCTOR.
- 15. ALL GROUNDING CONNECTIONS, INTERIOR AND EXTERIOR, MADE THROUGHOUT THIS DOCUMENT SHALL BE MADE USING AN ANTI-OXIDATION COMPOUND, THE ANTI-OXIDATION COMPOUND SHALL BE 'THOMAS AND BETTS' KOPR-SHIELD (TIM OF JET LUBE, INC.) THERE IS NO EQUIVALENT FOR THIS PRODUCT: NO OTHER COMPOUND WILL BE ACCEPTED. COAT ALL WIRES BEFORE LUGGING. COAT ALL SURFACES BEFORE CONNECTING.
- 16. ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED AND MODIFIED TO ENSURE PROPER CONTACT PRIOR TO CADWELD, GALVANIZING SHALL BE REMOVED BY GRINDING SURFACE TO BARE METAL 'SLAG' FROM CADWELD MUST BE REMOVED AND WELD SHALL BE SPRAYED WITH COLD GALVANIZE AFTER COMPLETION.

#### GENERAL GROUNDING NOTES CONTINUED:

- 17. FERROUS METAL CLIPS WHICH COMPLETELY SURROUND THE GROUNDING CONDUCTOR SHALL NOT BE USED. CLIPS OF THE FOLLOWING MATERIALS AND TYPES MAY BE USED TO SUPPORT GROUNDING CONDUCTORS.
  - PLASTIC CLIPS
- STAINLESS STEEL CLIPS WHICH DO NOT COMPLETELY SURROUND THE GROUNDING CONDUCTOR.
- FERROUS METAL CLIPS WHICH DO NOT COMPLETELY SURROUND THE GROUNDING CONDUCTOR.
- ALL BELOW GRADE GROUNDING CONDUCTORS SHALL BE BARE SOLID COPPER WRE. ABOVE-GRADE GROUNDING CONDUCTORS MAY BE EITHER OR AS INDICATED ON THE DRAWINGS:
  - BARE TINNED SOLID COPPER WIRE
  - THWN-INSULATED, CONTINUOUS GREEN COLOR, SOLID COPPER WIRE
  - THWN-INSULATED, CONTINUOUS GREEN COLOR STRANDED COPPER WIRE
  - A. THE UNDERGROUND GROUND RING SHALL HAVE A #2 AWG BARE TINNED SOLID COPPER WIRE.
  - B. #2 THWN SHALL BE STRANDED COPPER WITH GREEN THWN INSULATION SUITABLE FOR WET INSTALLATION (OR SOME ABOVE GROUND APPLICATIONS, I.E. INDOOR GROUNDING RING)
  - C. #2 BARE TINNED COPPER SHALL BE SOLID. ÄLL BURIED WIRE SHALL MEET THIS CRITERIA INCILIDING CABLE TRAY GROUNDING WIRES AND WIRES INDICATED ON THE DRAWINGS.

(THE MINIMUM BEND RADIUS IS 8" FOR #6 AWG AND SMALLER, AND 12 INCHES FOR WIRE LARGER THAN #6 AWG)

- ALL HARDWARE, BOLTS, NUTS, WASHERS, AND LOCK WASHERS SHALL BE 18-8 STAINLESS STEEL, EVERY CONNECTION SHALL BE (BOLT-FLATWASHER-BUSS-LUG-FLATWASHER-LOCKWASHER-NUT), IN THAT EXACT ORDER WITH NUT FACING OUTWARD, BACK TO BACK LUGGING SHALL BE
- (BOLT-FLATWASHER-LUG-FLATWASHER-LUG ` -BUSS-LUG-FLATWASHER-LOCK WASHER-NUT) IN THAT EXACT ORDER IS ACCEPTED WHERE NECESSARY TO CONNECT MANY LUGS TO A BUSS BAR. STACKING OF LUGS, BUS-LUG-LUG, IS NOT ACCEPTABLE.
- 20. THE COMPRESSION GROUND LUG FOR #2 AWG BARE SOLID GROUNDING CONDUCTORS SHALL BE BURNDY TYPE YA3C-2TC.
- 21. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUS AT THE LOWEST POINT OF THE VERTICAL RUN. THE ANTENNA CABLE SHELD SHALL BE GROUNDED JUST BEFORE ENTERING THE BTS. GROUNDING KITS ON COAX CABLE SHALL HAVE A MINIMUM BEND OF 6" AND SHALL BE KEPT AS CLOSE TO VERTICAL AS POSSIBLE, FLAT WASHER SUPPLIED WITH GROUND KITS MUST BE REPLACED WITH SMALLER STAINLESS STEEL FLAT WASHERS, WASHERS MUST REMAIN FLAT AGAINST GROUND BAR, ALL FASTENERS MUST BE STAINLESS STEEL AND KOPR-SHIELD MUST BE USED ON BOTH SIDES OF THE GROUND BAR.







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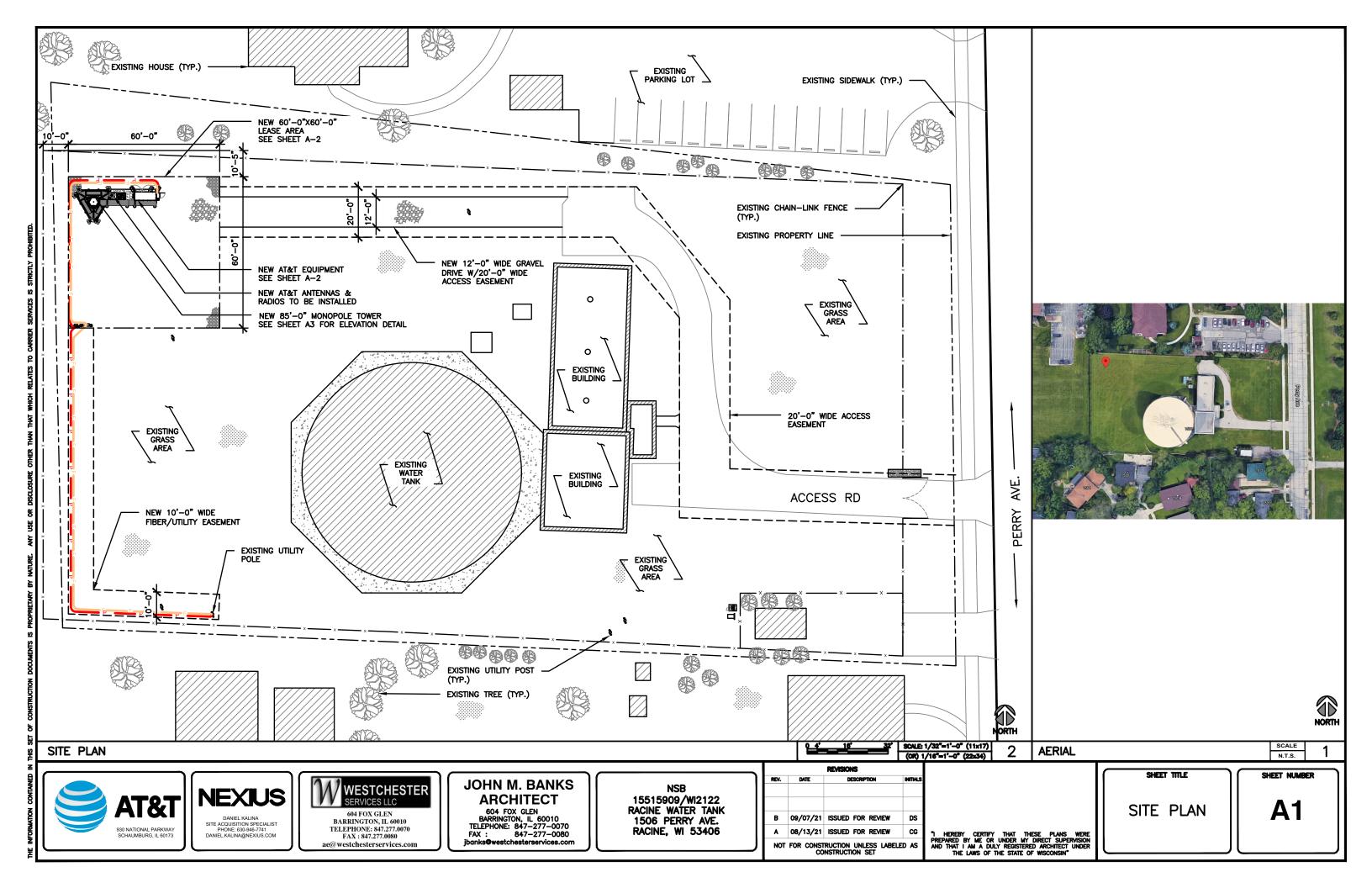
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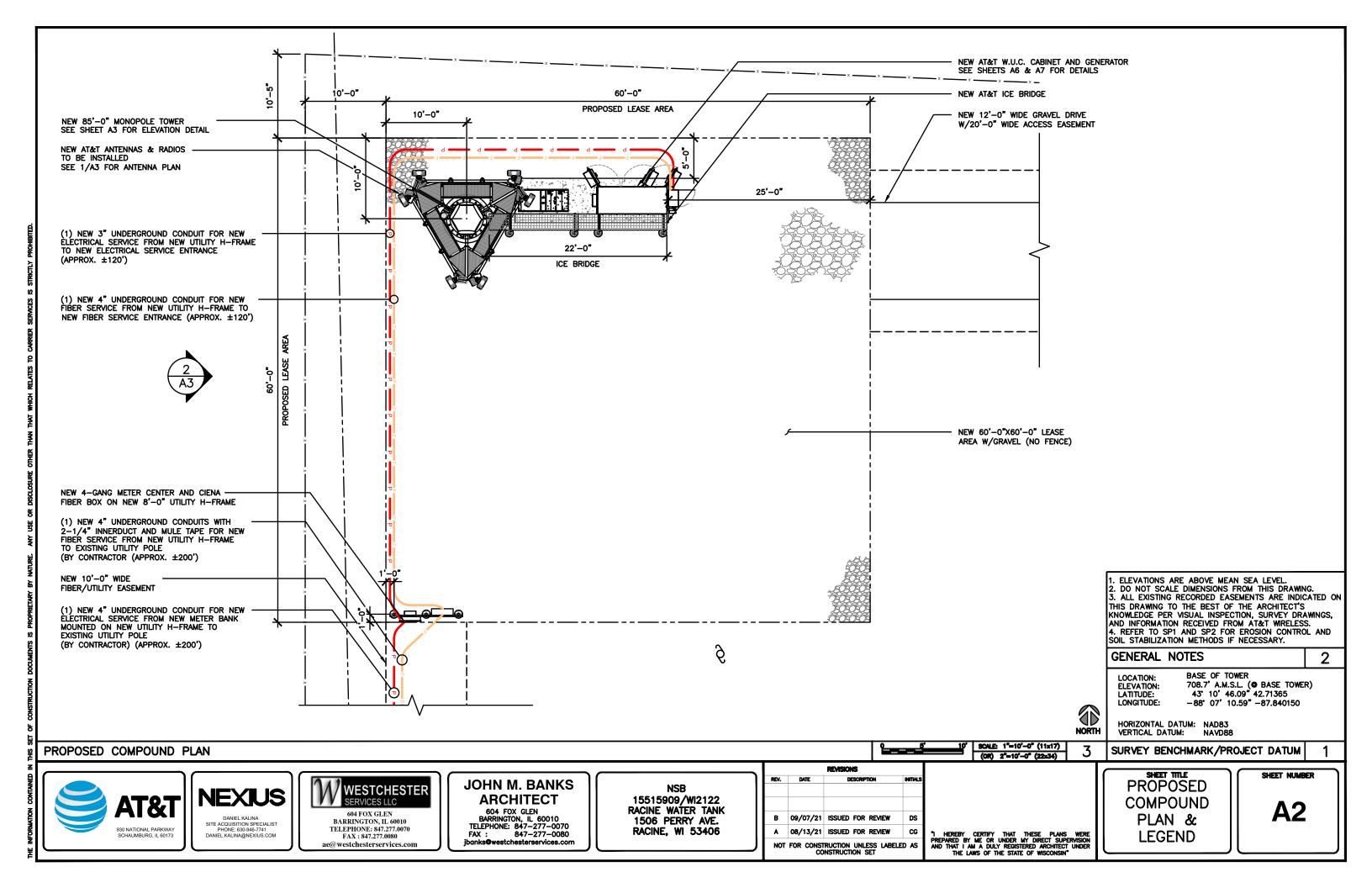
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A	09/13/21	ISSUED FOR REVIEW	CG					
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NOT		RUCTION UNLESS LABELE	D AS					
	CO	nstruction set						

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NOTES & **SPECIFICATIONS** 

SHEET TITLE





#### ANTENNA NOTES:

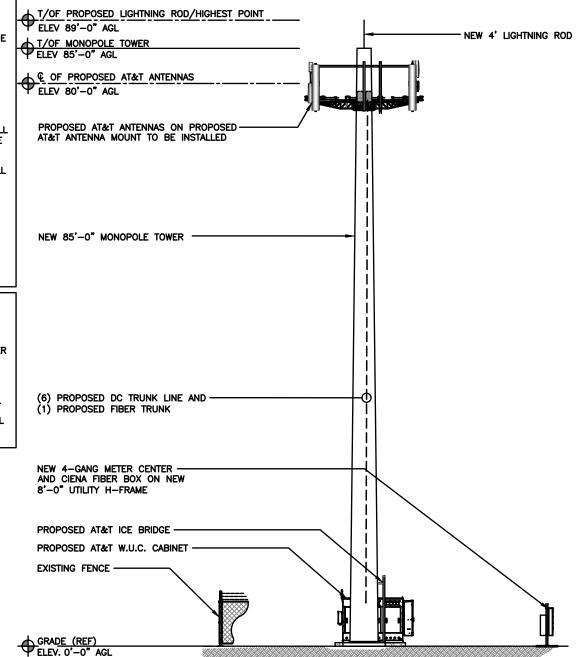
- I. THE SIZE, HEIGHT, AND DIRECTION OF THE ANTENNAS SHALL BE ADJUSTED TO ACHIEVE THE AZIMUTHS SPECIFIED AND LIMIT SHADOWING AND TO MEET THE SYSTEM REQUIREMENTS.
- 2. CONTRACTOR SHALL VERIFY HEIGHT OF THE ANTENNA WITH THE AT&T WIRELESS PROJECT MANAGER.
- 3. VERIFY TYPE AND SIZE OF TOWER LEG PRIOR TO ORDERING ANY ANTENNA MOUNT.
- UNLESS NOTED OTHERWISE THE CONTRACTOR MUST PROVIDE ALL MATERIAL NECESSARY.
- 5. ANTENNA AZIMUTHS ARE DEGREES OFF OF TRUE NORTH, BEARING CLOCKWISE, IN WHICH ANTENNA FACE IS DIRECTED. ALL ANTENNAS (AND SUPPORTING STRUCTURES AS PRACTICAL) SHALL BE ACCURATELY ORIENTED IN THE SPECIFIED DIRECTION.
- 6. CONTRACTOR SHALL VERIFY ALL RF INFORMATION PRIOR TO CONSTRUCTION.
- 7. SWEEP TEST SHALL BE PERFORMED BY GENERAL CONTRACTOR AND SUBMITTED TO AT&T WIRELESS CONSTRUCTION SPECIALIST, TEST SHALL BE PERFORMED PER AT&T WIRELESS STANDARDS.

#### STRUCTURAL NOTES:

- TOWER STRUCTURAL CALCULATIONS PREPARED BY OTHERS. CONTRACTOR TO VERIFY WITH PROJECT MANAGER TO OBTAIN A COPY
- 2. CONTRACTOR TO REFER TO TOWER STRUCTURAL CALCULATIONS FOR ADDITIONAL LOADS. NO ERECTION OR MODIFICATION OF TOWER SHALL BE MADE WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

#### STRUCTURAL NOTES:

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PENDING REDS

FINAL LOADING/RAD TO BE AFTER SCOPING. CONTRACTOR TO VERIFY LOADING WITH LATEST RFDS.

PROPOSED ANTENNA PLAN



PROPOSED TOWER ELEVATION

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TOWER **ELEVATION &** ANTENNA PLAN

SHEET TITLE

SCALE: 1/4"=1'-0" (11x17) (OR) 1/2"=1'-0" (22x34)



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**A3** 

- CONTRACTOR IS TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
- CABLE LENGTHS WERE DETERMINED BASED ON THE DESIGN DRAWING. CONTRACTOR TO VERIFY ACTUAL LENGTH DURING PRE-CONSTRUCTION
- CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).

NOTES				NO SCALE	3
	CABLE MA	KING LOCATIONS	TABL	E	

- LOCATIONS EACH TOP-JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE BANDS.
- EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3" 2) WIDE BANDS NEAR THE TOP-JUMPER CONNECTION AND WITH (1) SET OF 3/4" WIDE COLOR BANDS JUST PRIOR TO ENTERING THE BTS OR TRANSMITTER BUILDING.
- (3) CABLE ENTRY PORT ON THE INTERIOR OF THE SHELTER.
- ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
- 5 ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF 3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.
- 1. THE ANTENNA SYSTEM COAX SHALL BE LABELED WITH VINYL TAPE.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES-RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE, AND VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR CONTRACTOR ON SITE. ALL TAPE SHALL BE INSTALLED USING A MINIMUM OF (3) THREE WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO AS TO AVOID UNRAVELING.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLE BY SECTOR AND CABLE NUMBER AS SHOWN ON "CABLE COLOR CHART".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN TECHNOLOGIES IS ENCOUNTERED, THE CONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING STANDARD. IN THE ABSENCE OF AN EXISTING COLOR CODING AND TAGGING SCHEME, OR WHEN INSTALLING PROPOSED COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR BANDS INSTALLED AT THE TOP OF THE TOWER SHALL BE A MINIMUM OF 3" WIDE, AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED SO AS TO ALIGN NEATLY WITH ONE ANOTHER FROM SIDE-TO-SIDE.
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE NEW TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

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PROPOSED ANTENNA CONFIGURATION AND CABLE SCHEDULE BASED ON RFDS DATES TBD										
SECTOR	POS	TECH	ANTENNA	ANTENNA © HEIGHT	AZ	TMA/RRU	DC SURGE AND DISTRIBUTION	CABLE TYPE	CABLE LENGTH	DOWN TILTS
	1	LTE 1C	NNH4-65C-R6 (N)		55*	4449 B5/12 (N) 8843 B2/B66A (N)		(6) 8 AWG DC TRUNK LINE (N) (1) 24 PAIR FIBER (N)		o
	2	EMPTY								
^	3	EMPTY		80' AGL					210'	
	4	LTE 1C	NNH4-65C-R6 (N)		55*	4478 B14 (N) 4415 B25 (N)		DC (SHARED WITH A1) FIBER (SHARED WITH A1)		0
	1		I	I	I	4440 DE /40 /N		DO COLLEGE WITH AAN		0
В	3								210'	0
	1	LTE 1C	NNH4-65C-R6 (N)		300°	4449 B5/12 (N) 8843 B2/B66A (N)		DC (SHARED WITH A1) FIBER (SHARED WITH A1)		0
	2	EMPTY		],						
C	3	EMPTY		80' AGL					210'	
	4	LTE 1C	NNH4-65C-R6 (N)		300°	4478 B14 (N) 4415 B25 (N)		DC (SHARED WITH A1) FIBER (SHARED WITH A1)		0

\* INCLUDES SAFETY FACTOR OF 20' FT. (10 FT. AT BOTH ENDS OF CABLE RUN). CONTRACTOR TO VERIFY RF DATA WITH AT&T WIRELESS CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION

		CABLE MAR	KING COLO	R CONVEN	TION TABL			
	A1-1	A1-2	A2-1	A2-2	A3-1	A3-2	A4-1	A4-2
ALPHA, A, X, #1	+45	-45	+45	-45	+45	-45	+45	-45
Sector	RED	RED	RED	RED	RED	RED	RED	RED
Antenna	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
Port (+/-)	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (Low/Hi)	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/
*See notes 13 and	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET
BEAM (Left/Right)	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/
*See note 14 below	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	B1-1	B1-2	B2-1	B2-2	B3-1	B3-2	B4-1	B4-2
BETA, B, Y, #2	+45	-45	+45	-45	+45	-45	+45	-45
Sector	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
Antenna	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
Port	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (Low/Hi)	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/
*See notes 13 and	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET
BEAM (Left/Right)	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/
*See note 14 below	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	C1-1	C1-2	C2-1	C2-2	C3-1	C3-2	C4-1	C4-2
GAMMA, C, Z, #3	+45	-45	+45	-45	+45	-45	+45	-45
Sector	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN	GREEN
Antenna	WHITE	WHITE	ORANGE	ORANGE	BROWN	BROWN	VIOLET	VIOLET
Port	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN	SLATE	BROWN
BAND (Low/Hi)	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/	ORANGE/
*See notes 13 and	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET	VIOLET
BEAM (Left/Right)	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/	SLATE/
*See note 14 below	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW

(N) = NEW(X) = EXISTING

(XR) = EXISTING/RELOCATED(E) = ELECTRICAL

(M) = MECHANICAL

	(M) = MECHANI	ONL			
Site Fiber Color Code Chart					
Sector A					
Fiber Cable Pair #	Tape Band Color: Red	Function			
1		LTE-700-A-RRH-A1			
2		LTE-AWS-A-RRH-A2			
3		LTE/UMTS-850/1900-A-RRH-A3			
4		Sector A Spare			
Sector B					
Fiber Cable Pair #	Tape Band Color: Blue	Function			
5		LTE-700-B-RRH-B1			
6		LTE-AWS-B-RRH-B2			
7		LTE/UMTS-850/1900-B-RRH-B3			
8		Sector B Spare			
Sector C					
Fiber Cable Pair #	Tape Band Color: Green	Function			
riber Cable Pair #	rape band color: dicen				
9	Tabe Balla Colori di Cell	LTE-700-C-RRH-C1			
	Tape sails color areas	LTE-700-C-RRH-C1 LTE-AWS-C-RRH-C2			
9	Tape Balla Colori al Cell				

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ANTENNA AND CABLING INFORMATION

AT&T

**SCHEDULE** NO SCALE

WESTCHESTER SERVICES LLC

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Α	08/13/21	ISSUED FOR REVIEW	CG			
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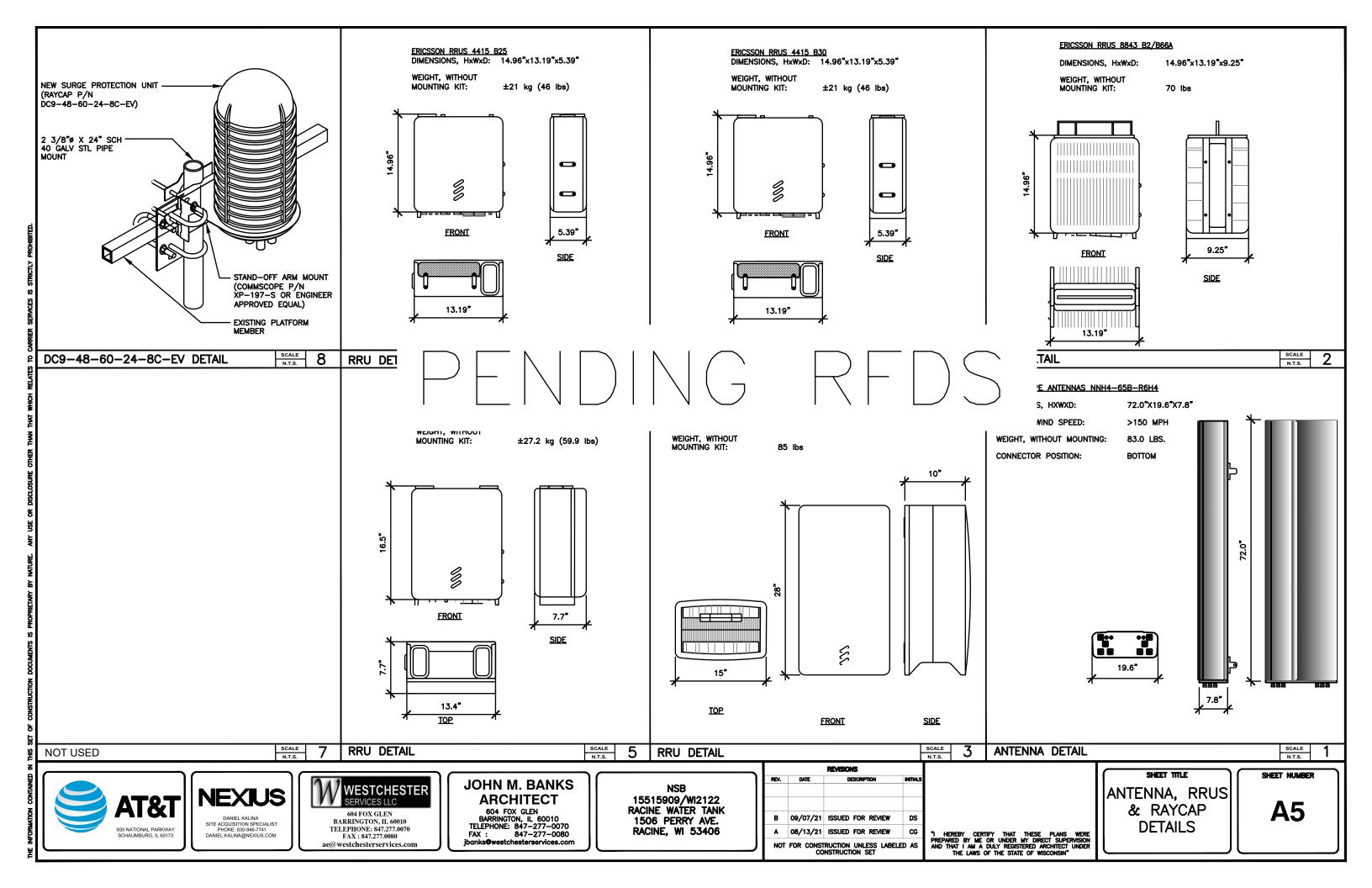
SCHEDULE & CABLE NOTES

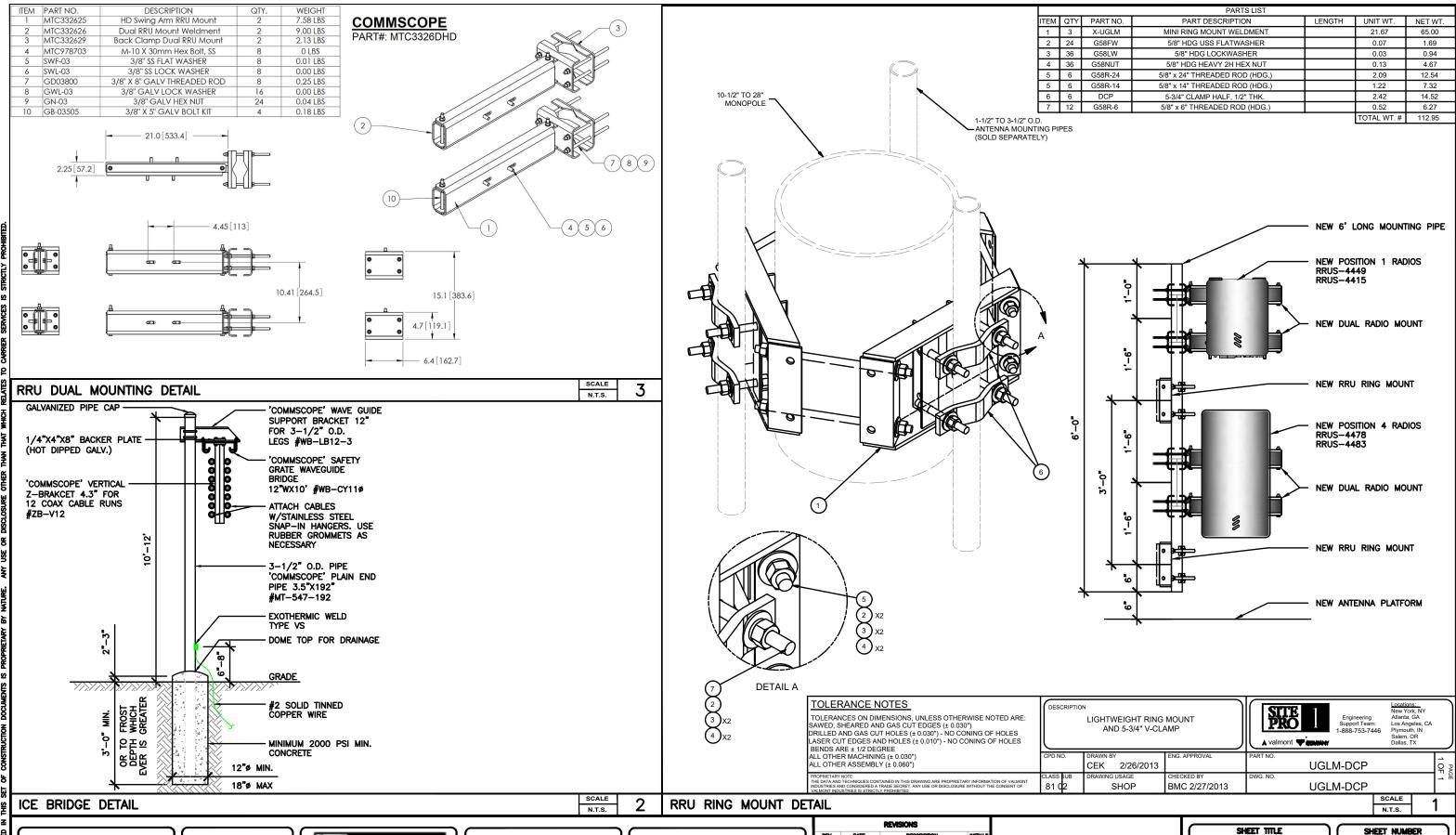
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SHEET NUMBER

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**A4** 







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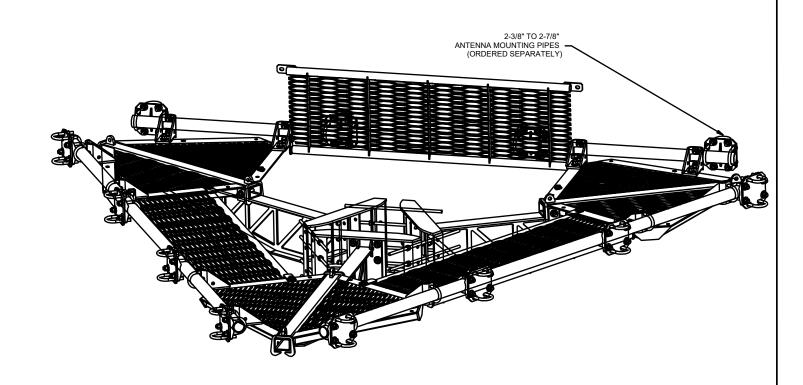
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**A5.**1

**DETAILS** 





TOLERANCE NOTES
TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030") DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES
LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES
BENDS ARE ± 1/2 DEGREE
ALL OTHER MACHINING (± 0.030")
ALL OTHER ASSEMBLY (± 0.060")

TAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMON' TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF

12' FORTRESS™ TRI-PLATFORM MOUNT WITH WALKWAYS

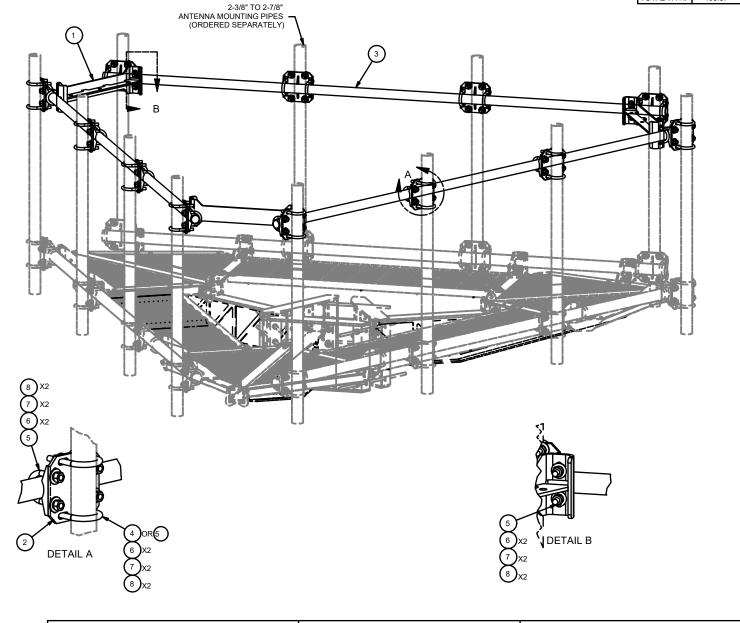
SCALE

N.T.S.

OTAL WT. #

2122.03

8/8/2017 F3P-12W CEK CUSTOMER BMC 8/30/2017 F3P-12W ITEM QTY PART NO. PART DESCRIPTION LENGTH UNIT WT. NET WT. 1 3 X-F3PHRW CORNER WELDMENT FOR 3-SIDED FORTRESS PLATFORM HADNRAIL KITS 83.15 27.72 2 12 X-SCX3-FR FORTRESS CROSSOVER PLATE 6.61 79.37 2-3/8" O.D. X 150" SCH 40 GALVANIZED PIPE P2150 45.77 137.31 27.59 4 24 X-UB5300 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) 1.15 5 54 X-UB5258 5/8" X 2-5/8" X 4-1/2" X 2" U-BOLT (HDG.) 1.00 54.01 6 108 G58FW 5/8" HDG USS FLATWASHER 1/8 in 0.07 7.61 7 108 G58LW 5/8" HDG LOCKWASHER 0.03 2.82 8 108 G58NUT 5/8" HDG HEAVY 2H HEX NUT 14.03 0.13 TOTAL WT. # 405.87



TOLERANCE NOTES

PLATFORM HANDRAIL KIT DETAIL

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE: SAWED, SHEARED AND GAS CUT EDGES (± 0.030")

DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES BENDS ARE ± 1/2 DEGREE ALL OTHER MACHINING (± 0.030") ALL OTHER ASSEMBLY (± 0.060")

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CEK 8/29/2017

CUSTOMER

HANDRAIL KIT FOR 12' FORTRESS™ PLATFORM

BMC 9/14/2017

▲ valmont

F3P-HRK12 F3P-HRK12

ANTENNA PLATFORM DETAIL

**AT&**1

TOI EDANCE NOTES

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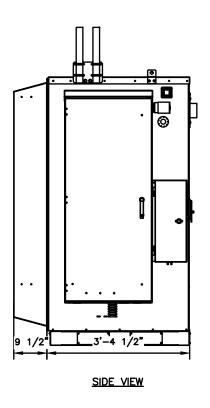
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**DETAILS** 

SHEET TITLE

SHEET NUMBER

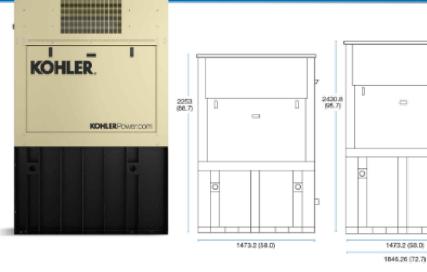
**A5.2** 



## THE ULTIMATE POWER SOLUTION

FOR SMALL SPACES.

Ideal for the telecom industry, our 20REOZK-C is built to fit in tight locations — all while packing the power you need to back up your systems for years to come.



#### COMPACT FOOTPRINT

Our reduced rectangular footprint is specially designed for cell tower platform applications, while still providing easy maintenance touch points and 48 hours of runtime.

#### RELIABLE POWER

Our direct engine/alternator design eliminates the possibility of generator failure due to improper adjustment or belt breakdowns.

#### SINGLE-SIDE SERVICE

Maintenance is made easy with one service area. All frequently serviced touch points are located on the same side and accessible by easy-toremove doors.

#### QUIET PERFORMANCE

Our sound enclosure delivers a sound performance of 65 dBA which is among the quietest available.

		TOTAL CIL. CI						
MODEL.	20REOZK-C Standard Tank	20REOZK-C State Tank						
uel Type	Die	esol						
ingine Make	KOHLI	ER <sub>*</sub> KDI						
lumber of Cylinders	4 ir	nline						
Displacement, L (cu. in.)	2.5 (158)							
Operating Speed (rpm)	1800							
Controller	KOHLER Decis	ion-Maker <sub>*</sub> 3000						
oltage	120/240, single phase							
Srea ker	10	0 A						
Uternator	Poles: 4  Bearing: 1, sealed  Voltage Regulator: digital, integrated  Steady State Voltage Regulation: ± 0.5%  Insulation: NEMA MG1, Class H							
iound Enclosure	Steel with Stainless St	teel Hardware - 65 dBA						
ank Gallons/48 Hrs @ Full Load	105	105						
contrint Dimensions, x W x H, mm (in)	1473.2 x 762.0 x 2253.0 (58.0 x 30.0 x 88.7)	1473.2 x 762.0 x 2430.8 (58.0 x 30.0 x 95.7)						
overall Dimensions, L x W x H, nm (in) including spill box		1846.6 x 812.8 x 2430.8 (72.7 x 32.0 x 95.7)						
Veight (lbs)	2,164	2,250						
Diesel Fuel Consumption – Standby, Lph (gph) at % Load	75%	7.2 (1.9) 5.7 (1.5) 3.8 (1.0)						
itate Tank Options Included		5-Gallon Spill Containment High Fuel Level Switch with Alarm						

W.U.C. ELEVATIONS

KOHLER DIESEL GENERATOR DETAIL

SHEET NUMBER

SCALE N.T.S.

AT&T

930 NATIONAL PARKWAY
SCHAUMBURG, IL 60173

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SITE ACQUISITION SPECIALIST
PHONE: 630-946-7741
DANIEL KALINA@NEUSLISC COM



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**JOHN M. BANKS** 

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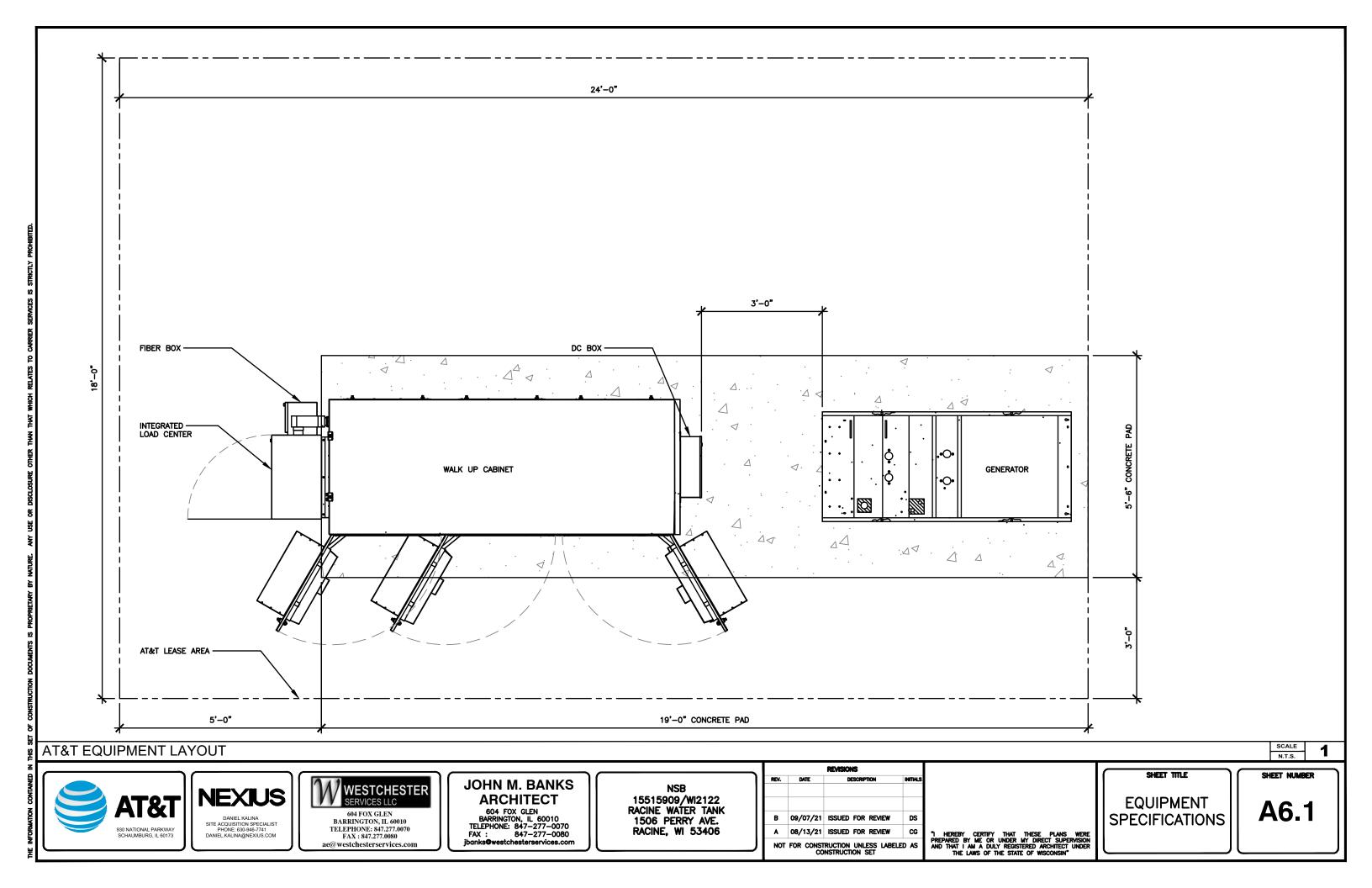
KENSIONS									
REV.	DATE	DATE DESCRIPTION							
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А	08/13/21	ISSUED FOR REVIEW	CG						
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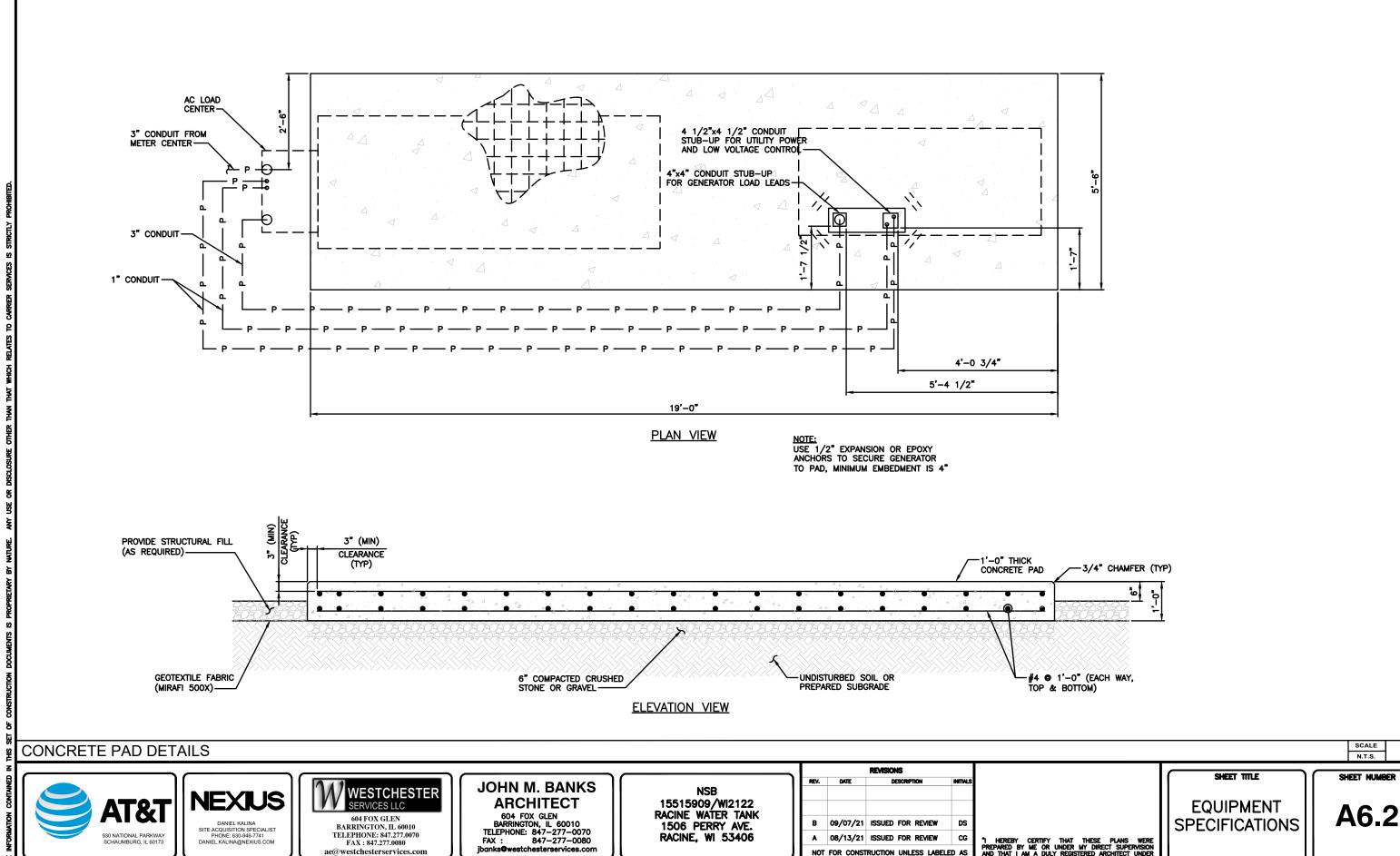
SHEET TITLE
EQUIPMENT
LAYOUT &
CONSTRUCTION
PARED BY ME OR UNDER MY DIRECT SUPERVISION
DETAILS

**A6** 

OR REVIEW CG
"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ACHITECT UNDER N SET

THE LAWS OF THE STATE OF WISCONSIN"



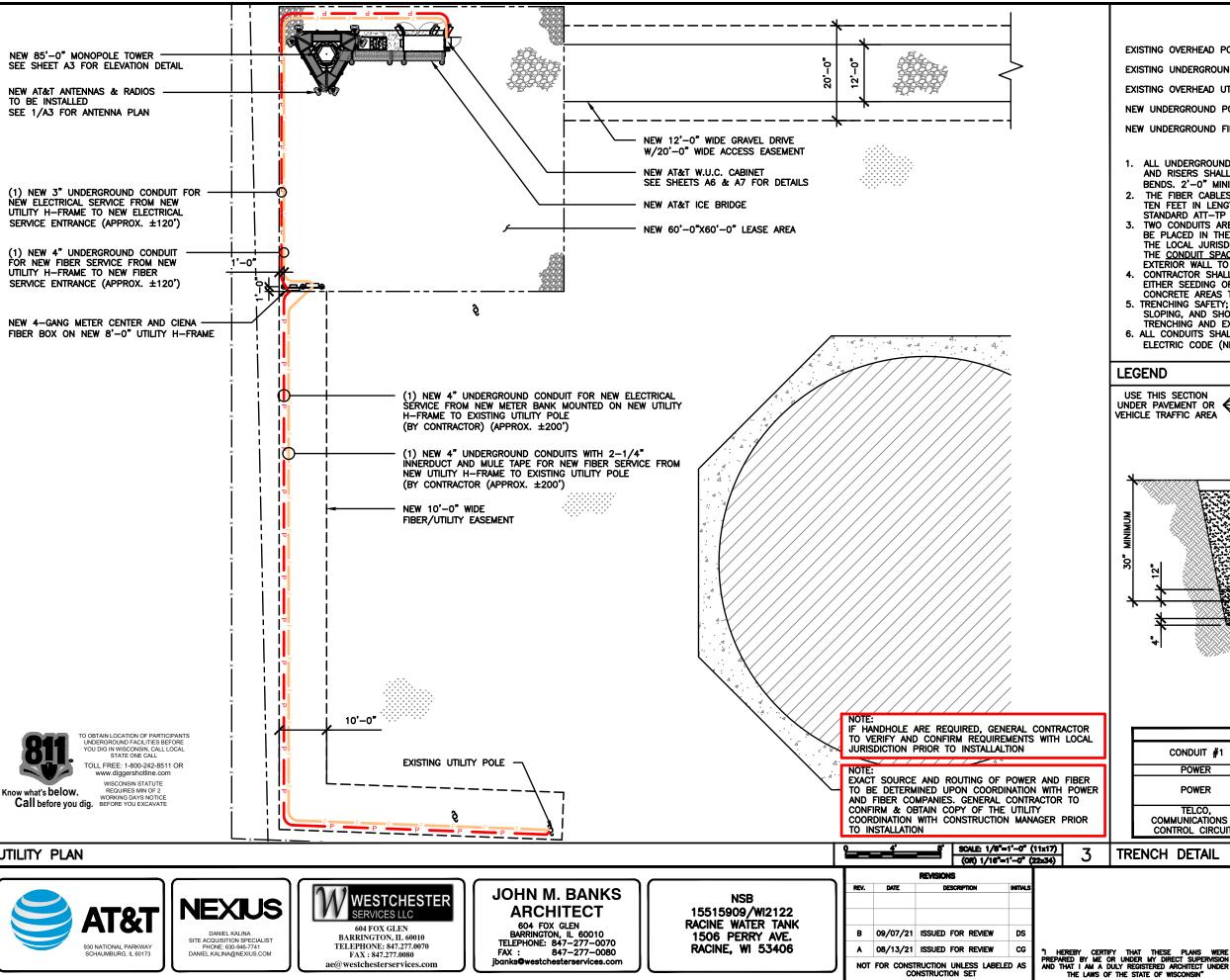


A 08/13/21 ISSUED FOR REVIEW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN"

FAX: 847.277.0080 ae@westchesterservices.com



EXISTING OVERHEAD POWER EXISTING UNDERGROUND POWER EXISTING OVERHEAD UTILITIES NEW UNDERGROUND POWER **NEW UNDERGROUND FIBER** 1. ALL UNDERGROUND CONDUITS SHALL BE SCH 40 PVC. EXCEPT THAT ELBOWS AND RISERS SHALL BE RMC ALL UNDERGROUND ELBOWS SHALL BE SWEEPING BENDS. 2'-0" MINIMUM SHALL BE REQUIRED.

2. THE FIBER CABLES SHOULD BE INSTALLED IN RIGID METAL CONDUIT, (10'-0") TEN FEET IN LENGTH BEFORE ENTERING A SHELTER OR BUILDING PER AT&T STANDARD ATT-TP 26416.

TWO CONDUITS ARE SHOWN IN DETAIL 2, ALTHOUGH MULTIPLE CONDUITS CAN BE PLACED IN THE SAME TRENCH. A MINIMUM SEPARATION IS REQUIRED PER THE LOCAL JURISDICTIONS AND UTILITY COMPANIES. IN ALL OTHER CASES, USE THE CONDUIT SPACING SCHEDULE TO MAINTAIN MINIMUM SPACING BETWEEN THE EXTERIOR WALL TO EXTERIOR WALL SEPARATION OF CONDUITS.

CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR

CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.

5. TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.

6. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION.

NOT TO SCALE 2 LEGEND USE THIS SECTION USE THIS SECTION UNDER PAVEMENT OR UNDER GRASS OR VEHICLE TRAFFIC AREA LAWN AREA RESTORE SURFACE TO ORIGINAL CONDITION 6" WIDE UTILITY WARNING TAPE (8"-12" BELOW GRADE) ENTIRE LENGTH OF TRENCH RETURN ORIGINAL MATERIAL TO TRENCH, COMPACT TO 95% STANDARD PROCTOR GRADE 9 (CA-6) GRAVEL COMPACTED TO 95% STANDARD PROCTOR FOR NEW ELECTRICAL TELEPHONE OR FIBER SERVICES-SEE UTILITY AND SITE PLANS, PROVIDE APPROVED PULL BOXES AS REQUIRED AND COORDINATE INSTALLATION W/ALL UTILITY 12" COMPANIES FOR INTERFACING AT TERMINATION POINTS. PROVIDE FULL LENGTH ROPES (TYP.)

CO	NDUIT SPACING SCHEL	DULE
CONDUIT #1	MINIMUM CONDUIT SEPARATION	CONDUIT #2
POWER	* = 6 INCHES	POWER
POWER	* = 12 INCHES	TELCO, COMMUNICATIONS & CONTROL CIRCUITS
TELCO, COMMUNICATIONS & CONTROL CIRCUITS	* = 6 INCHES	TELCO, COMMUNICATIONS & CONTROL CIRCUITS

NOT TO SCALE UTILITY PLAN TRENCH DETAIL

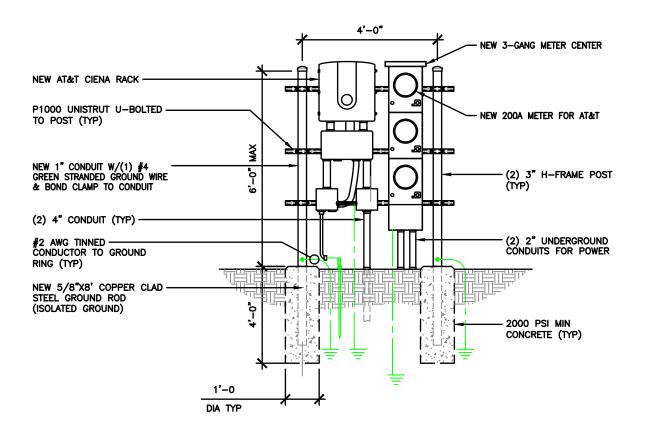


ae@westchesterservices.com

REV.	DATE	DESCRIPTION	INITIALS
В	09/07/21	ISSUED FOR REVIEW	DS
A	08/13/21	ISSUED FOR REVIEW	CG

UTILITY PLAN AND DETAILS

SHEET TITLE SHEET NUMBER



								11	NTE	GF	RATI	ED	LC	)AD	С	ENT	ER								
	LOAD			LOAD PER	PHASE (VA)	쓩	SI	nons	ᆸ	ш	ōп			ರ್	ш		snon	S	9. S	LOAD PER	PHASE (VA)			LOAD	
	DECODED TO L	an.	UNIT	PH/	ASE	WIRE COLOR	OADS	OADS	LOADS SUB-PANEL	WIRE SIZE	GROUNDING WIRE SIZE	AF.		GROUNDING WIRF SIZE	WIRE SIZE	OADS	SON	OADS	WIRE COLOR	PH	ASE	UNIT		250000500	
	DESCRIPTION	QTY.	V.Ä.	A	В	¥.	_§	LOADS NON-CONTINUOUS	SUE	W	8₹			8	<b>×</b>	- BS		LOADS CONTINUOUS	WIR	A	В	V.A.	QTY.	DESCRIPTION	
1	RECTIFIER #1	1	1400	1400		BLK	x			8	(10)	40		(10)	8				BLK	1400	XXX	1400	1	RECTIFIER #5	2
3	RECTIFIER #1	1	1400		1400	RED	^			0	(10)	40	ll <sup>‡⁰</sup>	(10,	$ $ $^{\circ}$			Х	RED		1400	1400	1	RECTIFIER #5	4
5	RECTIFIER #2	1	1400	1400	>>>>	BLK	x			8	(10)	40		(10)	8			x	BLK	1400	>>>>	1400	1	RECTIFIER #6	6
7	RECTIFIER #2	1	1400	$\times\!\!\times\!\!\times$	1400	RED				0	(10)	+0	JĽ™	(10,	L			^	RED	$\times\!\!\times\!\!\times$	1400	1400	1	RECTIFIER #0	8
9	RECTIFIER #3	1	1400	1400	$\ggg$	BLK	x			8	(10)	40	40	(10)	8			x	BLK	1400	XXXX	1400	1	RECTIFIER #7	10
12	REGIITER #3	1	1400		1400	RED				٥	(10)	70	JĽ	(10,	Ľ			^	RED	$\times\!\!\times\!\!\times$	1400	1400	1	KECHITEK #7	12
13	RECTIFIER #4	1	1400	1400	>>>>>	BLK	, x			8	(10)	40	40	(10)	8			x	BLK	1400	$\otimes\!\!\otimes\!\!\otimes$	1400	1	RECTIFIER #8	14
15	REOTHER #4	1	1400		1400	RED	Î.			·	(10)	10	JĽ.	(10)	Ľ			^	RED	$\times\!\!\times\!\!\times$	1400	1400	1	KEOMIEK #0	16
17						BLK													BLK		>>>>>				18
19				$\times\!\!\times\!\!\times$		RED	х			12	12	20							RED	$\times\!\!\times\!\!\times$					20
21	GFCI RECEPTACLES	2	180	360	$\times\!\!\times\!\!\times$	BLK	х			12	(12)	20							BLK		$\otimes\!\!\otimes\!\!\otimes$				22
23	optional fiber box receptacle	1	180	$\times\!\!\times\!\!\times$	180	RED	х			12	12	20							RED	$\times\!\!\times\!\!\times$					24
25	BATTERY CHARGER	1	240	240		BLK	Х			12	12	20							BLK		XXXX				26
27	BLOCK HEATER	1	1500	XXX	1500	RED	х			12	12	20							RED	$\times\!\!\times\!\!\times$					28
29	OIL HEATER	1	180	180	$\times\!\!\times\!\!\times$	BLK	Х			12	12	20							BLK						30
		CON	BTOTAL ITINUOUS	6,380	7,280															5,600	5,600	SUBTO CONTINU	AL IOUS	TOTAL KVA CONTINUOUS x 1.25	31.075
			BTOTAL CONTINUOUS BTOTAL	-	-															-	-	SUBTO NON-CONT SUBTO		TOTAL KVA NON-CONTINUOUS	-
PANE	EL DESIGNATION:ELECTRICAL PA		BTOTAL 3-PANEL EM 2)	-	-	_														-	-	SUB-PA	NĒL	TOTAL KVA SUB-PANEL	-
-	LUGS:N/A MAIN BREA		<del></del>														BRA	NCH E	BREAKE	R TYPESIEM	ENS - BL			TOTAL KVA	31.075
VOLT	AGE: 120/240 CYCL	.E: 60		PHASE: 1	WIF	RES:	3	MAIN	COPP	er bu	JS: 200	) AMP	s	NE	JTRAL:	200 AN	IPS							TOTAL AMPS	129.48

NOT TO SCALE NOT TO SCALE H-FRAME DETAIL PANEL SCHEDULE

AT&T

**NEXIUS** DANIEL KALINA SITE ACQUISITION SPECIALIST PHONE: 630-946-7741 DANIEL.KALINA@NEXIUS.COM



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jbanks@westchesterservices.com

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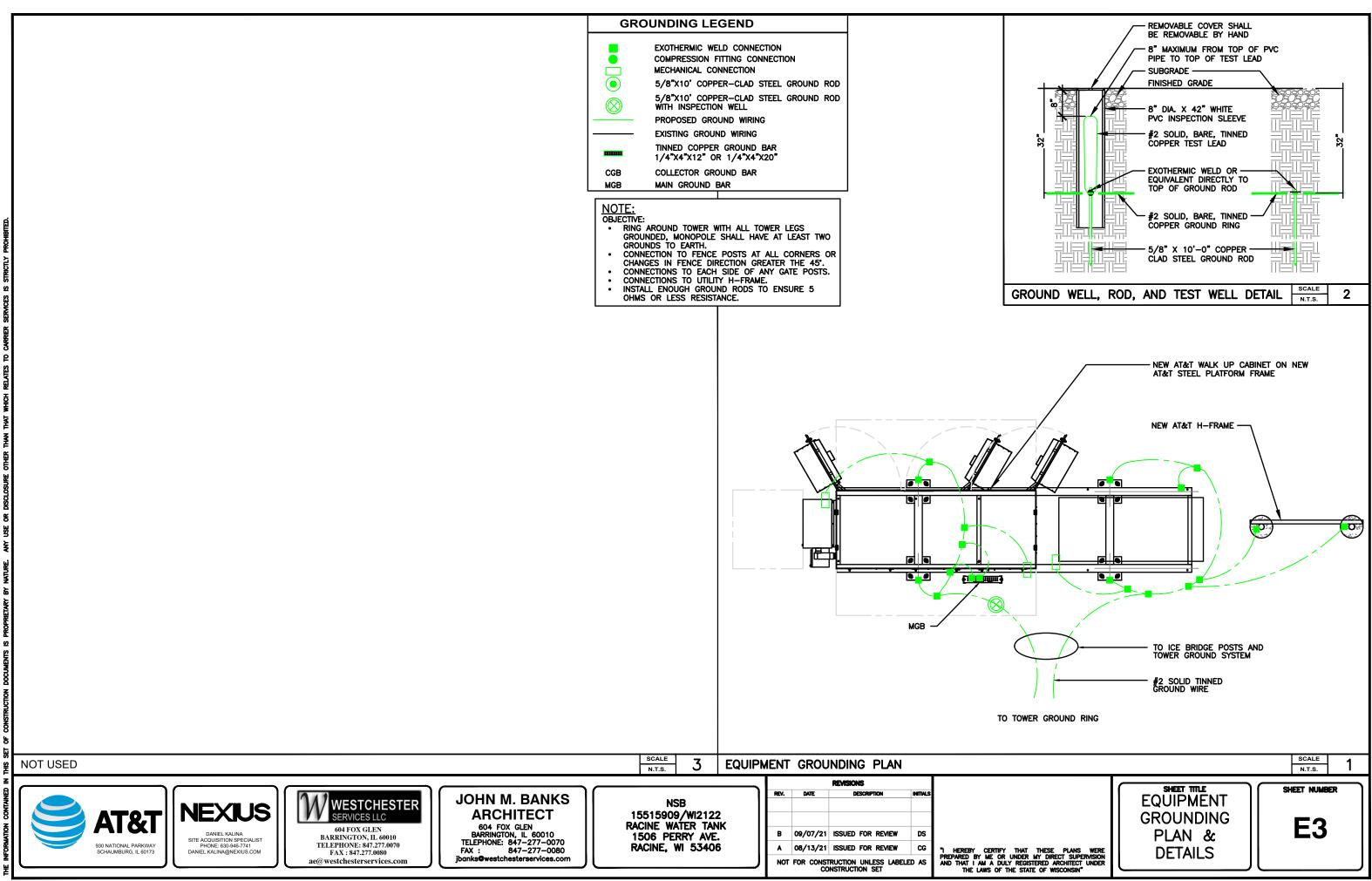
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	08/13/21 FOR CONST	09/07/21 ISSUED FOR REVIEW 08/13/21 ISSUED FOR REVIEW FOR CONSTRUCTION UNLESS LABELICONSTRUCTION SET

REVISIONS

SHEET TITLE H—FRAME DETAIL AND **PANEL** "I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN" **SCHEDULE** 

SHEET NUMBER

**E2** 



PENDING REDS

SCALE NOT USED N.T.S.

GENERIC ANTENNA CABLING SINGLE LINE DIAGRAM

SCALE: 3/4 = 1'-0" (24x36) (OR) 3/8" = 1'-0" (11x17)

NOT USED

N.T.S. SHEET NUMBER

AT&T

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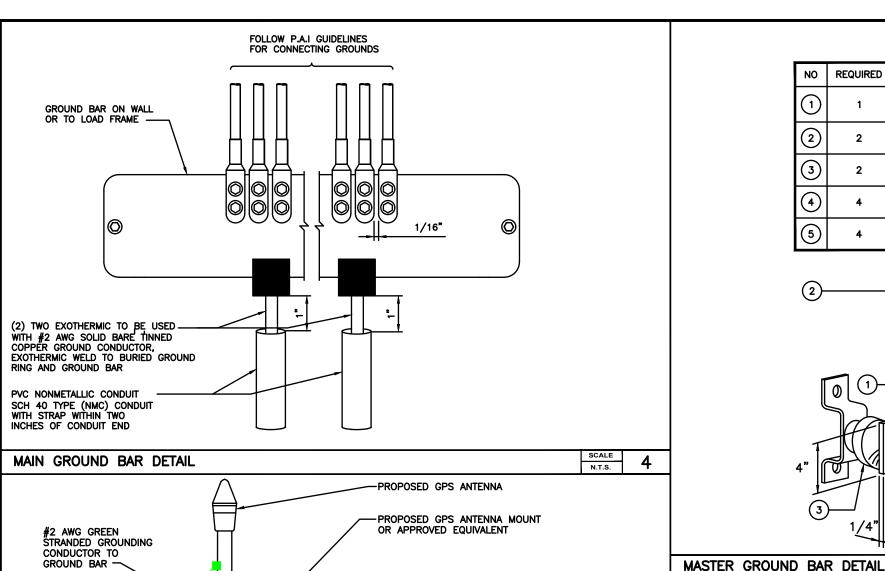
**NSB** 15515909/WI2122 RACINE WATER TANK 1506 PERRY AVE. RACINE, WI 53406

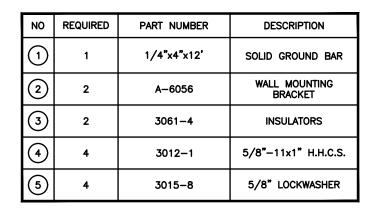
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A	08/13/21	ISSUED FOR REVIEW	CG				
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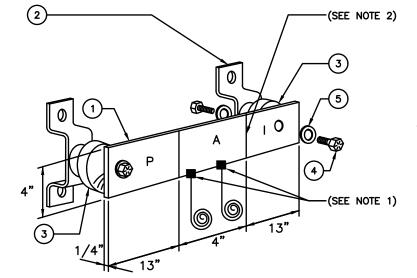
SLD

SHEET TITLE **GENERIC ANTENNA GROUNDING** 

**E4** 







#### EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS **ORIGIN AND DESTINATION**

## SECTION "P" - SURGE PROTECTORS

- (EC) CELL REFERENCE GROUND BAR (IF COLLOCATED) (EC) GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR (#2 AWG)
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (3/0)
- (EC) FIBER GROUND BAR (#2 AWG)
- (EC) POWER ROOM REFERENCE GROUND BAR (#2 AWG) (AT&T) RECTIFIER FRAMES

#### SECTION "A" - SURGE ABSORBERS

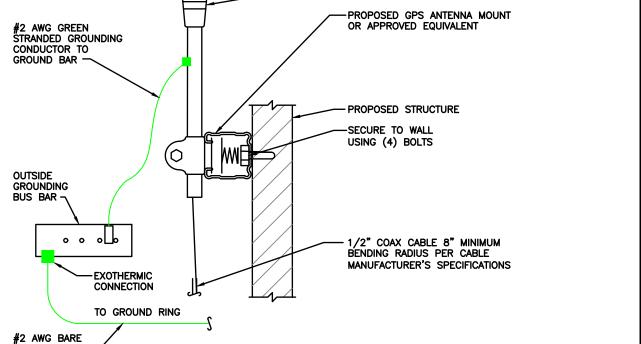
- (EC) INTERIOR GROUND RING (#2 AWG)
- (EC) EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2
- (EC) METALLIC COLD WATER PIPE (IF AVAILABLE) (1/0 AWG) (EC) BUILDING STEEL (IF AVAILABLE) (1/0 AWG)

#### SECTION "I" - ISOLATED GROUND ZONE

(AT&T) ALL ISOLATED GROUND REFERENCE (AT&T) GROUND WINDOW BAR

#### **DETAIL NOTES:**

- 1. EXOTHERMICALLY WELD #2 AWG BARE TINNED SOLID COPPER CONDUCTOR TO GROUND BAR. ROUTE CONDUCTOR TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- 2. THE INSTALLER SHALL USE PERMANENT MARKER TO DRAW THE LIKE BETWEEN SECTION AND LABEL EACH SECTION ("P", "A", "I" WITH 1" HIGH



STAINLESS STEEL 3/8" ANGLE ADAPTER SITEPRO 1 P/N: ADAP WUC PLATFORM MEMBER EMI PART #W-000-954

**FILLISTER FASTENER** STAINLESS STEEL 3/8" ANGLE ADAPTER SITEPRO 1 P/N: ADAP **INSULATOR** NEW MASTER GROUND BAR

¥Υ 12" 227 **ANTENNA** M COAX CABLE WEATHERPROOFING KIT ONLY AT STRAIGHT COAX RUNS CABLE GROUND KIT 6 AWG STRANDED COPPER CONDUCTOR WITH GREEN, 600V, THWN-2 INSULATION GROUNDED TO GROUND BAR-COAX JUMPER CABLE

**GPS ANTENNA GROUNDING** 

TINNED COPPER-

ANGLE ADAPTER DETAIL

AT&T

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В	09/07/21	ISSUED FOR REVIEW	DS	
A	08/13/21	ISSUED FOR REVIEW	CG	"I HEREBY CERTIFY THAT THESE PLANS WERE
NOT		TRUCTION UNLESS LABEL INSTRUCTION SET	ED AS	PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN"

N.T.S.

SHEET TITLE

1COAX GROUND KIT DETAIL

**GROUNDING DETAILS** 

SHEET NUMBER

SCALE

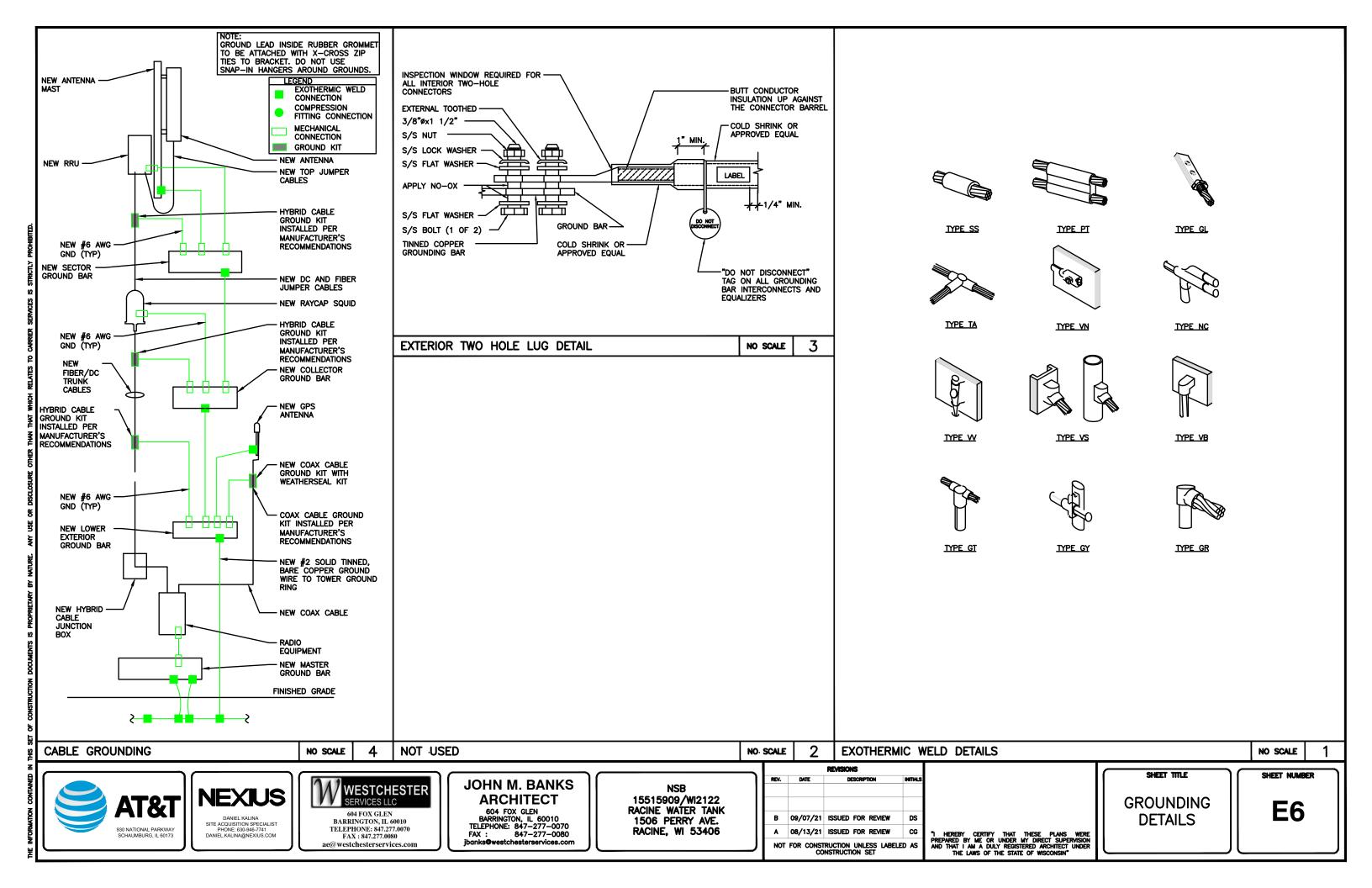
N.T.S.

SCALE

N.T.S.

2

**E5** 



# PENDING REDS







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REV.	DATE	DESCRIPTION	INITIALS
В	09/07/21	ISSUED FOR REVIEW	DS
A	08/13/21	ISSUED FOR REVIEW	CG

DS CG 1 HEREBY

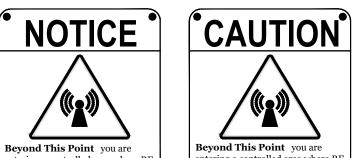
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SHEET TITLE

LEGEND AND DETAILS

SHEET NUMBER

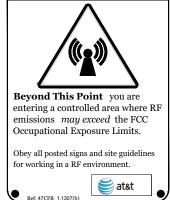
RF



entering a controlled area where RF emissions may exceed the FCC General Population Exposure Limits

Follow all posted signs and site guidelines for working in a RF environment.

**ĕ** at&t Ref: 47CFR 1.1307(b)



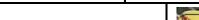
### **ALERTING SIGNS**



at&t PROPERTY OF AT&T **AUTHORIZED** PERSONNEL ONLY

IN CASE OF EMERGENCY, OR PRIOR TO PERFORMING MAINTENANCE ON THIS SITE, CALL 800-638-2822 AND REFERENCE CELL SITE NUMBER.

**ALERTING SIGN** 





Contact AT&T at \_\_\_\_\_\_ prior to performing any maintenance or repairs near AT&T antennas. This is Site#

# **INFORMACION**

€ at&t

INFO SIGN #1



## INFO SIGN #5

## INFORMATION ACTIVE ANTENNAS ARE MOUNTE BEHIND THIS PANEL ON THIS STRUCTURE STAY BACK A MINIMUM

OF 3 FEET FROM THESE ANTENNAS

**€** at&t



**ALERTING SIGN** (FOR CELL SITE BATTERIES)

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**≅** at&t



**ALERTING SIGN** (FOR DIESEL FUEL)



**ALERTING SIGN** (FOR PROPANE)

GENERAL	SIGNAGE	GUIDELINES

INFO SIGN#1	INFO SIGN #2	INFO SIGN #3	INFO SIGN #4	Striping	NOTICE SIGN	CAUTION SIGN
entrance gates, shelter doors <b>OR</b> on the outdoor cabinets	climbing side of the Tower	On backside of Antennas	entrance gates, shelter doors <b>OR</b> on the outdoor cabinets			At the height of the first climbing step, min. 9ft above ground
entrance gates, shelter doors <b>OR</b> on the outdoor cabinets	climbing side of the Tow er	On backside of Antennas	entrance gates, shelter doors <b>OR</b> on the outdoor cabinets			At the height of th first climbing step min. 9ft above ground
entrance gates, shelter doors <b>OR</b> on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	entrance gates, shelter doors <b>OR</b> on the outdoor cabinets			
entrance gates, shelter doors <b>OR</b> on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	entrance gates, shelter doors <b>OR</b> on the outdoor cabinets		If GPmax value of MPE at antenna lev- is: 0-99%: Notice sign; over 99%: Caution sign at no less than 3ft below antenna and 9ft above ground	
entrance gates, shelter doors <b>OR</b> on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no less than 9ft above ground	On backside of Antennas	entrance gates, shelter doors <b>OR</b> on the outdoor cabinets		Notice or Caution sign at no less than 9ft above ground: only if the exposure exceeds 90% of the General Public exposure at 6ft above ground or at outside surface of adjacent buildings	
X			Х			
Х		Χ	Х			
Х	X		Х			
X	X		X			
X	X		Х			
X	adjacent to each antenna		X		either Notice or Caution sign (based or Roofview results) at antennas/barrier	
x	adjacent to each antenna		x	diagonal, yellow striping as to Roofview graph		
Access to steeple	adjacent to antennas if antennas are concealed	On backside of Antennas	Access to steeple			Caution sign at the antennas
	adjacent to antennas if	On backside of				Caution sign besid
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Notes for Roofton sites:

- 1. Either NOTICE or CAUTION signs need to be posted at each sector as close as possible to: the outer edge of the striped off area or the outer antennas of the sector
- 2. If Roofview shows: only blue = Notice Sign, blue and yellow = Caution Sign, only yellow = Caution Sign to be installed.
- 3. Should the required striping area interfere with any structures or equipment (A/C, vents, roof hatch, doors, other antennas, dishes, etc.),
- please notify AT&T to modify the striping area, prior to starting the work

#### SIGNAGE GUIDELINES CHART INFO SIGN #3 INFO SIGN #2







604 FOX GLEN BARRINGTON, IL 60010 FAX: 847.277.0080 ae@westchesterservices.com

## **JOHN M. BANKS ARCHITECT**

604 FOX GLEN
BARRINGTON, IL 60010
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FAX: 847-277-0080 ibanks@westchesterservices.com

**NSB** 15515909/WI2122 RACINE WATER TANK 1506 PERRY AVE. RACINE, WI 53406

INEVIOUS						
REV.	DATE	DESCRIPTION	INITIALS			
В	09/07/21	ISSUED FOR REVIEW	DS			
Α	08/13/21	ISSUED FOR REVIEW	CG			
NOT		RUCTION UNLESS LABELE	D AS			

"I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF WISCONSIN"

SHEET TITLE

LEGEND AND **DETAILS** 

**SIGNAGE** 

