

Return Completed Form To:
Planning and Zoning
108 Sherman Street
Deadwood, SD 57732



Questions Contact:
Kevin Kuchenbecker
(605) 578-2082 or
kevin@cityofdeadwood.com

Application No. _____

APPLICATION FOR CONDITIONAL USE PERMIT

Application Fee: \$500.00

Applicants: Please read thoroughly prior to completing this form. Only complete applications will be considered for review.

Name of Proposed Development: AT&T Site Name: Deadwood Creek, AT&T FA #: 16125488

Street Location of Property: McGovern Hill Rd, Deadwood, SD 57732

Legal Description of Property: McGovern Hill Addition Tract C Plat 2003-04122

Zoning Classification of Property: PF - Park Forest

Name of Property Owner: City of Deadwood Telephone: (605) 578-3082

Address: 102 SHERMAN ST DEADWOOD, SD 57732
Street City State Zip

Name of Applicant: New Cingular Wireless PCS, LLC (AT&T) Telephone: XXXXXXXXXX

Address: XXXXXXXXXX
Street City State Zip

1. The following documents shall be submitted:

- a. An improvement survey, including all easements,
- b. Development plan, including site plan with location of buildings, usable open space, off-street parking, loading areas, refuse area, ingress/egress, screening, proposed or existing signage, existing streets, and
- c. A written statement addressing the criteria for approval.

Uses of Building or Land: City of Deadwood Water Tank Property

Signature of Applicant: Hugh Bealka, agent for applicant Date: 2/13/2026

Signature of Property Owner: _____ Date: _____

Fee: \$ _____	Paid On _____	Receipt Number _____
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Legal Notice Published Date: _____ **Hearing Date:** _____

PLANNING AND ZONING ADMINISTRATOR:			
Approved/P&Z Administrator:	Yes	No	Signature: _____ Date: _____
PLANNING AND ZONING COMMISSION:			
Approved/P&Z Commission:	Yes	No	Date: _____
DEADWOOD BOARD OF ADJUSTMENT:			
Approved/City Commission:	Yes	No	Date: _____

Reason for Denial (if necessary): _____



February 13, 2026

City of Deadwood
Deadwood Planning and Zoning
108 Sherman Street
Deadwood, SD 57732

RE: Statement Addressing Conditional Use Permit Criteria for Approval / Proposed New Cingular Wireless PCS, LLC (AT&T) Wireless Facility / AT&T Site Name: Deadwood Creek / City Water Tank Property on McGovern Hill Road – PF Park Forest District

I. Consistency with the City Policy Plan and Zoning Ordinance (17.76.040)

The proposed wireless communications facility is in harmony with the general purposes, goals, and objectives of the City of Deadwood’s land use regulations and applicable zoning provisions.

The subject property is zoned PF – Park Forest, which is intended to preserve forested areas while minimizing adverse environmental effects. The proposed facility is located on an existing municipal water tank property, which is already developed for public utility purposes. Co-locating a wireless communications facility at this site consolidates infrastructure at an established utility location rather than introducing new development into undisturbed forested land.

Wireless infrastructure is comparable in character and function to other public and utility-related conditional uses permitted within the PF District. The proposed stealth design, underground utilities, and compact ground compound are consistent with the district’s intent to minimize environmental and visual impacts.

II. Community Need and Proper Mix of Uses (17.76.040)

A demonstrated community need exists for improved wireless coverage in the Deadwood Creek and McGovern Hill area. Due to steep terrain and dense vegetation, existing facilities do not adequately serve portions of the gulch and surrounding areas.

The proposed facility is designed to improve reliable wireless communication for:

- Residents
- Visitors
- Local businesses
- Emergency services and public safety responders

The project does not create an over-concentration of similar uses. Wireless facilities are limited and strategically placed infrastructure elements that serve broad public needs. The proposal consolidates

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service into a single stealth structure rather than requiring multiple smaller facilities in separate locations.

III. Impact on Adjacent Property and Neighborhood Character (17.76.040)

The proposed use will not result in a substantial or undue adverse effect on adjacent property or neighborhood character.

Key mitigating design elements include:

- 100' Stealth canister monopole design with all antennas fully enclosed
- Smooth monopole form without exposed platforms or lattice structures
- Forest green finish selected to blend with surrounding vegetation
- Siting against an existing forested hillside rather than on a ridgeline
- Direct-bored underground electric and fiber utilities
- Compact 20' x 25' fenced compound

The facility will generate:

- No on-site parking demand beyond occasional maintenance visits
- No regular traffic increase
- No retail activity
- No noise beyond intermittent generator testing
- No increase in public service burden

The proposed use is passive in nature and does not alter the residential or forested character of the area

IV. Nonconforming Use Considerations (17.76.040)

The proposal does not increase the proliferation of nonconforming uses. The property is already developed with municipal utility infrastructure (water tank), and the proposed facility represents a compatible public utility function.

The design minimizes visual and operational impact and does not expand the intensity of land use in a manner inconsistent with the PF District or surrounding area. The proposal supports public health, safety, and general welfare through improved communications reliability.

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V. Lot and Performance Standards and Setback Waiver Request (17.76.040)

The proposed wireless facility is located on an existing municipal water tank property and has been designed to function as a co-located utility use. Due to the topography of the site, existing infrastructure, access limitations, and environmental constraints, the proposed compound location was determined in coordination with the City to be the only viable location for development on the water tank property.

Because the facility is a utility structure and not a principal residential building, strict application of the standard PF District setback requirements is not fully achievable in all directions. Accordingly, the applicant respectfully requests a waiver from standard setback requirements, provided that:

- The proposed monopole and equipment compound are set back from property lines the same distance as the existing water tanks, or greater; and
- The facility does not encroach closer to any property boundary than the existing municipal utility infrastructure already lawfully established on the site.

The proposed facility will not increase the operational intensity of the site, introduce additional parking demand, or create adverse impacts on adjacent properties. The monopole and compound will remain visually subordinate to the existing water tank structures and will be screened by existing vegetation and terrain.

Granting the requested setback flexibility would allow the facility to be consolidated within the established utility area of the property while maintaining consistency with the surrounding character and minimizing disturbance to undisturbed portions of the PF-zoned land.

The applicant respectfully submits that this limited waiver is reasonable given the municipal utility context of the property, the physical constraints of the site, and the public benefit associated with improved communications infrastructure.

VI. Utilities, Services, and Public Improvements (17.76.040)

The proposed facility will be adequately served by existing infrastructure.

- Electric and fiber services will be direct bored underground.
- No new public streets are required.
- No expansion of municipal water, sewer, or drainage infrastructure is required.
- The facility does not create measurable demand on public services.

The applicant is willing and able to comply with any reasonable conditions related to bonding, financial guarantees, or site improvements as required under Section 17.04.110.

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VII. Intensity of Use and Operational Characteristics (17.76.030)

The proposed wireless facility is a low-intensity use.

- The facility will be unmanned.
- Access will occur periodically for maintenance.
- Traffic generation is minimal and infrequent.
- Hours of operation are continuous, but with no on-site activity.
- No retail, office, or public access component is proposed.

The facility operates passively and does not generate noise, glare, fumes, or vibration under normal conditions.

Conclusion

The proposed AT&T wireless communications facility:

- Is consistent with the intent and purpose of the PF Park Forest District
- Addresses a demonstrated community need
- Does not create adverse impacts on adjacent properties or neighborhood character
- Does not overburden public infrastructure
- Minimizes environmental and visual effects through stealth design and careful siting
- Supports public safety and general welfare

For these reasons, the application satisfies the criteria set forth in Deadwood Municipal Code 17.76.030 and 17.76.040, and approval of the Conditional Use Permit is respectfully requested.

Sincerely,

Hugh Bealka

Hugh Bealka
Terra Consulting Group,
on behalf of New Cingular Wireless, PCS

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 THESE CODES.

BUILDING CODE: 2015 SOUTH DAKOTA BUILDING CODE (IBC 2015)
 PLUMBING CODE: 2015 SOUTH DAKOTA PLUMBING CODE
 MECHANICAL CODE: 2015 SOUTH DAKOTA MECHANICAL CODE
 ELECTRICAL CODE: 2003 NATIONAL ELECTRICAL CODE
 FIRE & SAFETY CODE: 2015 SOUTH DAKOTA FIRE CODE

PROJECT TEAM

APPLICANT: AT&T MOBILITY
 7900 XERXES AVE S, 3RD FLOOR
 BLOOMINGTON, MN 55411
 PM: VERNIA SN, VSN477@ATT.COM
 CM: JOHN O'BRIEN, JOB302@ATT.COM

PROJECT MANAGEMENT: MASTEC COMMUNICATIONS GROUP
 SHELLEY TRAMPETTI@MASTEC.COM
 (651) 895-6823

CONSTRUCTION MANAGEMENT: MASTEC SOLUTIONS
 DYLAN DAVIS
 DYLAN.DAVIS@MASTEC.COM
 (319) 905-3307

ARCHITECT ENGINEERING: JOHN M. BANKS
 804 FOX GLEN
 BARRINGTON, IL 60010
 CONTACT: JOHN M. BANKS
 PHONE: (847) 277-0070
 EMAIL: J.BANKS@WESTCHESTERSERVICES.COM



SITE NAME:
FA LOCATION:
SITE ADDRESS:

STRUCTURE:
USID:
IWMN:

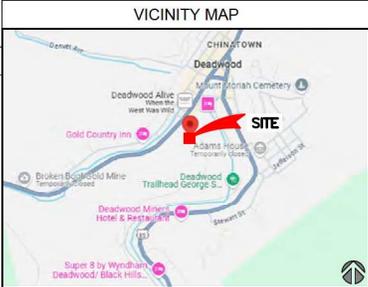
DEADWOOD CREEK
16125488/SITE ID: SDL04992
CITY WATER TANK PROPERTY MCGOVERN HILL ROAD
DEADWOOD, SD 57732
95'-0" STEALTH MONOPOLE
500090
WSUMW0032440 (PRIMARY), WSUMW0032498,
WSUMW0035391, WSUMW0032370, WSUMW0032451,
WSUMW0032504, WSUMW0032363, WSUMW0032500

SITE INFORMATION

STRUCTURE LANDLORD: AT&T
 PROPERTY OWNER/ CONTACT: CITY OF DEADWOOD
 LORRIE TALSBERG
 TEL: (605) 578-2082
 LORRIE@CITYOFDEADWOOD.COM

JURISDICTION: CITY OF DEADWOOD
 PARCEL #: 30616-0000-030-00
 CURRENT ZONING: PF - PARK FOREST
 RFDS ID: 17588
 EXISTING USE: PARK FOREST DISTRICT
 PROPOSED USE: PARK FOREST DISTRICT/UNMANNED COMMUNICATIONS FACILITY

LATITUDE (NAD 83): 44.37208457 / 44° 22' 23.1"
 LONGITUDE (NAD 83): -103.73152837 / -103° 43' 43.5"
 SITE ELEVATION: 84735' A.M.S.L.
 POWER PROVIDER: CONNEXUS ENERGY



PROJECT DESCRIPTION

INSTALLATION OF AN UNMANNED TELECOMMUNICATIONS FACILITY, CONSISTING OF THE FOLLOWING SCOPE:

ANTENNA LOCATION:

INSTALL:

- (6) COMMSCOPE NNH4-65C-R8-V4 ANTENNAS
- (2) ERICSSON AIR 6472 B77G B77M ANTENNAS
- (2) ERICSSON 4400 B20686A RRH
- (2) ERICSSON 4404 B14829 RRH
- (2) ERICSSON 4400 B58124 RRH
- (3) COMMSCOPE PRRU MOUNTS
- (2) RAYCAP DCS-66-65-24-8C-12M

EQUIPMENT LOCATION:

INSTALL:

- (1) 3-BAY W.U.C. AND GENERATOR WITH CANOPY
- (1) FIBER H-FRAME
- (1) ICE BRIDGE
- (1) GPS ANTENNA
- (1) METER CENTER H-FRAME
- (1) FIBER HANDHOLE

GENERAL CONTRACTOR NOTES

DO NOT SCALE THESE DRAWINGS

THESE PLANS ARE FORMATTED TO BE FULL SIZE AT 24" x 36". CONTRACTORS SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME.

DRIVING DIRECTIONS

SCAN FOR DRIVING DIRECTIONS:

SHEET INDEX

T-1	TITLE SHEET	E-1	OVERALL ELECTRICAL PLAN
GN-1	GENERAL NOTES	E-2	ELECTRICAL DETAILS
GN-2	GENERAL NOTES	E-3	ELECTRICAL DETAILS
GN-3	GENERAL NOTES	E-4	COMPOUND GROUNDING PLAN
GN-4	GENERAL NOTES	E-5	GROUNDING PLANS & NOTES
GN-5	GENERAL NOTES	E-6	GROUNDING DETAILS
C-1	OVERALL SITE PLAN		
C-2	COMPOUND PLAN		
C-3	SITE DETAILS		
C-4	SITE DETAILS		
A-1	ANTENNA PLAN		
A-2	ANTENNA & RRH REQUIREMENTS		
A-3	ELEVATION		
D-1	DETAILS		
D-2	DETAILS		
D-3	CABINET DETAILS		
D-4	CONCRETE PAD DETAILS		
D-5	MOUNT DETAILS		

REFERENCE NOTES

CONTRACTOR SHALL REQUEST CURRENT RFDS & WORKBOOK FROM CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

GENERAL NOTES

THE FACILITY IS UNMANNED AND FULL TIME HUMAN PRESENCE IS UNNECESSARY. THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE. NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

STATEMENTS

STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THE DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

ANTENNA MOUNT ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWING SET. FOR ANALYSIS OF MOUNT TO SUPPORT EXISTING AND/OR PROPOSED COMPONENTS, REFER TO ANTENNA MOUNT STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

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TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN SOUTH DAKOTA, CALL SOUTH DAKOTA ONE CALL. TOLL FREE: 1-800-781-7474 OR www.sdonecall.com

SOUTH DAKOTA STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Know what's below.
 Call before you dig.

AT&T

MasTec Network Solutions

WESTCHESTER SERVICES LLC

804 FOX GLEN
 BARRINGTON, IL 60010
 PHONE: 847-277-0070
 EMAIL: A.C@westchesterservices.com

JOHN M. BANKS ARCHITECT

804 FOX GLEN
 BARRINGTON, IL 60010
 TELEPHONE: 847-277-0070
 EMAIL: J.BANKS@WESTCHESTERSERVICES.COM

REVISIONS

REV.	DATE	DESCRIPTION	BY
A	03/27/25	ISSUED FOR REVIEW	JS
B	06/10/25	ISSUED FOR REVIEW	JS
C	12/10/25	ISSUED FOR REVIEW	RA
D	12/30/25	ISSUED FOR REVIEW	RA

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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

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 SOUTH DAKOTA

SITE NUMBER: SDL04992
 SITE NAME: DEADWOOD CREEK
 FA#: 16125488
 CITY WATER TANK PROPERTY
 MCGOVERN HILL ROAD
 DEADWOOD, SD 57732

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO WESTCHESTER SERVICES, LLC. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RESULTS TO WESTCHESTER SERVICES, LLC IS STRICTLY PROHIBITED.

ABBREVIATIONS:			
A.B.	ANCHOR BOLT	EXP.	EXPANSION
A.B.V.	ABOVE	EXST.	(E) EXISTING
ACCA	ANTENNA CABLE COVER ASSEMBLY	FAB.	FABRICATION(OR)
ADDL.	ADDITIONAL	F.F.	FINISH FLOOR
A.F.F.	ABOVE FINISHED GRADE	F.G.	FINISH GRADE
A.F.G.	ABOVE FINISHED GRADE	FIN.	FINISHED
ALUM.	ALUMINUM	FLR.	FLOOR
ALT.	ALTERNATE	FLS.	FOUNDATION
ANT.	ANTENNA	F.O.C.	FACE OF CONCRETE
APPRX.	APPROXIMATELY	F.O.M.	FACE OF MASONRY
ARCH.	ARCHITECTURAL	F.O.S.	FACE OF STUD
AWG.	AMERICAN WIRE GAUGE	F.O.W.	FACE OF WALL
BLDG.	BUILDING	F.S.	FINISH SURFACE
BLK.	BLOCK	FT. (')	FOOT (FEET)
BLKLD.	BLOCKING	FTG.	FOOTING
BM.	BEAM	G.	GROWTH (CABINET)
B.N.	BOUNDARY NAILING	GA.	GAUGE
B.T.C.W.	BARE TINNED COPPER WIRE	GL.	GALVANIZED
B.O.P.	BOTTOM OF FOOTING	G.F.L.	GROUND FAULT CIRCUIT INTERRUPTER
BU.	BACK-UP CABINET	GLB. (GLU-LAM)	GLUE LAMINATED BEAM
CAB.	CABINET	G.P.S.	GLOBAL POSITIONING SYSTEM
CANT.	CANTILEVER(ED)	GRND.	GROUND
C.I.P.	CAST IN PLACE	HDR.	HEADER
CLG.	CEILING	HR.	HANGER
CLR.	CLEAR	HT.	HEIGHT
COL.	COLUMN	ICGB.	ISOLATED COPPER GROUND BUS
CONC.	CONCRETE	IN. (")	INCHES
CONN.	CONNECTION(OR)	INT.	INTERIOR
CONST.	CONSTRUCTION	LB. (#)	POUNDS
CONT.	CONTINUOUS	L.B.	LAG BOLTS
¢	PENNY (NAILS)	L.F.	LINEAR FEET (FOOT)
DBL.	DOUBLE	L.	LONGITUDINAL
DEPT.	DEPARTMENT	MAS.	MASONRY
D.F.	DOUGLAS FIR	MAX.	MAXIMUM
DIA.	DIAMETER	M.B.	MACHINE BOLT
DIAG.	DIAGONAL	MECH.	MECHANICAL
DIM.	DIMENSION	MFR.	MANUFACTURER
DWG.	DRAWING(S)	MIN.	MINIMUM
EA.	EACH	MISC.	MISCELLANEOUS
EL.	ELEVATION	MTL.	METAL
ELEC.	ELECTRICAL	(N)	NEW
ELEV.	ELEVATION	NO. (#)	NUMBER
E.M.T.	ELECTRICAL METALLIC TUBING	N.T.S.	NOT TO SCALE
E.N.	EDGE NEAR	O.C.	ON CENTER
ENG.	ENGINEER	OPNG.	OPENING
EQ.	EQUAL	(P)	PROPOSED
		P/C	PRECAST CONCRETE
		PCS	PERSONAL COMMUNICATION SERVICES
		P.L.V.	PLYWOOD
		P/P	POWER PROTECTION CABINET
		PRC	PRIMARY RADIO CABINET
		P.S.F.	POUNDS PER SQUARE FOOT
		P.S.I.	POUNDS PER SQUARE INCH
		P.T.	PRESSURE TREATED
		P.V.	POWER (CABINET)
		QTY.	QUANTITY
		RAD.	(R) RADIUS
		REF.	REFERENCE
		REINF.	REINFORCEMENT(ING)
		REQD.	REQUIRED
		RGS	RIGID GALVANIZED STEEL
		SCH.	SCHEDULE
		SHT.	SHEET
		SIM.	SIMILAR
		SPEC.	SPECIFICATIONS
		SQ.	SQUARE
		S.S.	STAINLESS STEEL
		STD.	STANDARD
		STL.	STEEL
		STRUC.	STRUCTURAL
		TEMP.	TEMPORARY
		THK.	THICKNESS
		T.N.	TOE NAIL
		T.O.A.	TOP OF ANTENNA
		T.O.C.	TOP OF CURB
		T.O.F.	TOP OF FOUNDATION
		T.O.P.	TOP OF PLATE (PARAPET)
		T.O.S.	TOP OF STEEL
		T.O.W.	TOP OF WALL
		TYP.	TYPICAL
		U.G.	UNDERGROUND
		U.L.	UNDERWRITERS LABORATORY
		U.N.O.	UNLESS NOTIFIED OTHERWISE
		V.I.F.	VERIFY IN FIELD
		W	WIDE (WIDTH)
		W/	WITH
		W.D.	WOOD
		W.P.	WEATHERPROOF
		WT.	WEIGHT
		CL	CENTERLINE
		PL	PLATE, PROPERTY LINE

SYMBOLS LEGEND:	
	SECTION LINE
	ELEVATION
	CONCRETE
	EARTH
	GRAVEL
	ICE BRIDGE / CABLE TRAY
	MATCH LINE
	GROUND CONDUCTOR
	OVERHEAD SERVICE CONDUCTORS
	TELEPHONE CONDUIT
	POWER CONDUIT
	COAXIAL CABLE
	CHAIN LINK FENCE
	WOOD FENCE
	(E) EXISTING EQUIPMENT
	(R) EQUIPMENT TO BE REMOVED
	(N) EQUIPMENT TO BE INSTALLED
	(RL) EQUIPMENT RELOCATED



WESTCHESTER SERVICES LLC

804 FOX GLEN
BARRINGTON, IL 60010
PHONE: 847-277-0070
EMAIL: AS@westchesterservices.com

JOHN M. BANKS ARCHITECT
804 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-277-0070
EMAIL: JBANKS@WESTCHESTERSERVICES.COM

REV.	DATE	DESCRIPTION	BY
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SITE NUMBER: SD104992
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FA#: 16125488
CITY WATER TANK PROPERTY
MCDOUGHER HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1

GENERAL NOTES:

- FOR THE PURPOSES OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR / OWNER = **SHAWNEE**
SUB-CONTRACTOR = **PER TRADE**
OWNER = **AT&T**
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 STATED OTHERWISE.
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.
8. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE NOTED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION. CONTRACTOR SHALL VERIFY EXISTING BUILD AND DRAINAGE 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
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COARAL 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.
- CLEARING AND GRUBBING OF STUMPS, VEGETATION, DEBRIS, RUBBER, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- GRADING AND STABILIZATION.
- 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 ANY DAMAGED ADJACENT OR DOWNSTREAM PROPERTIES WILL BE CORRECTED BY THE SUB-CONTRACTOR AT NO EXPENSE TO THE OWNER.
- 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-CONTRACTOR'S EXPENSE.

SITE WORK:

EARTHWORK AND DRAINAGE

CALL 1 - GENERAL

1. WORK INCLUDED: SEE SITE PLAN.
2. DISCRIPTIONS

ACCESS DRIVE W/ TURNAROUND AREA, LEASE AREA AND IF APPLICABLE UNDERGROUND UTILITY FACILITIES ARE TO BE CONSTRUCTED TO PROVIDE A WELL BRANDED, 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).

C. PLACE AND MAINTAIN VEGETATION/LANDSCAPING, IF INCLUDED WITH 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 FACILITIES (IF APPLICABLE) AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION, PLACEMENT OF BACKFILL AND SUB-BASE MATERIALS.

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, SET, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITY FACILITIES) IMMEDIATELY AFTER BRINGING LEASE AREA AND ACCESS DRIVE W/ TURNAROUND TO BASE COURSE ELEVATION. WATER TO INSURE GROWTH.

G. REMOVE GRASS 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 SURFACES.

5. SUBMITTALS

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

B. AFTER CONSTRUCTION

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

6. WARRANTY

A. IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL RESTORE AND REPAIR ANY DAMAGED AREAS AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.

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 FINAL INSPECTION.

D. LANDSCAPING, IF INCLUDED WITH 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 IPA 10292-7
PHASOR CORPORATION P.O. BOX 5123 DEARBORN, MI 48128 (313) 563-8000
AMURSIL FIBROCEL EPA REGISTERED
FRAMAR INDUSTRIAL PRODUCTS 1435 MORRIS AVE. UNION, NJ 07083
(908) 528-4524

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

C. SOIL STABILIZER FIBRIC SHALL BE MIRAQI - 800K.

2. EXECUTION

1. INSPECTIONS

LOCAL BUILDING INSPECTOR 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 SCRUBS FROM LEASE AREA, ACCESS DRIVE W/ TURNAROUND AND UNDER GROUND UTILITY FACILITIES AS REQUIRED FOR CONSTRUCTION. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, ORDER ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW GRADE.

B. UNLESS OTHERWISE INSTRUCTED BY CONTRACTOR, TRANSPORT ALL REMOVED TREES, BRUSH AND SCRUBS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.

C. PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL, BOLL THE SOIL.

D. WHERE INSTANTANEOUS CONDITIONS ARE PRESENT, THE TOP SURFACE 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 SPILLS, RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISHED GRADES OR INDICATED SPILLS.

B. CLEAR EXCESS SPILLS, IF ANY, FROM JOB SITE AND DO NOT 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 DISTURBED AREAS WHERE WATER MAY FLOW.

E. THE CONTRACTOR 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 BEFORE PLACING NEXT LIFT.

H. 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 SURFACING TO THE SIZE, GRADES OF ALL EXISTING SITE AREAS, PARKING AREAS, AND ALL OTHER SPILLS GREATER THAN 12 IN.

J. APPLY RIPRAP TO SIDES OF DITCHES OR DRAINAGE SWALES.

K. RIPRAP DRIVE DITCH FOR SIX (6) FEET IN ALL DIRECTIONS AT CURVEV POINTS.

L. APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES AND DISTURBED AREAS.

M. UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CURVEV BE PLACED SO THAT THEY DIRECT WATER TOWARDS OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DITCHES OR ELEVATIONS ARE IN CONFLICT WITH THIS ADVICE, CONSTRUCTION MANAGER IMMEDIATELY NOTIFY OWNER WITH SPILLS GREATER THAN ONE HUNDRED DISCREPANCY INCHES IN THE DITCH AT CURVEV ENTRANCES. POSITION THE HEADWALL AT AN ANGLE NO GREATER THAN 60 DEGREES OF THE DITCH LINE. RIPRAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX (6) FEET ABOVE THE CURVEV ENTRANCE.

N. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. GRADE AREAS TO BE RETURNED TO EXISTING SURFACE AND POSITIVE DRAINAGE TO THE SEED PRODUCER.

O. SOIL SEED IN TWO DIRECTIONS TO THE QUANTITY REQUIRED BY THE SEED PRODUCER.

P. ENSURE GROWTH OF SEEDS AND LANDSCAPED AREAS, BY WATERING, UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BANK AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

4. FIELD QUALITY CONTROL

COMPACT SOIL 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.

5. PROTECTION

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

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

C. PROTECT ALL EXPOSED AREAS AGAINST WASH-OUTS AND SOIL EROSION. PLACE STRAW BALES AT THE POINT OF APPROACH TO ALL NEW OR EXISTING CHANNELS. WHERE THE SITE OR ROAD AREAS HAVE BEEN EXCAVATED IMMEDIATELY ADJACENT TO THE RAIL LINE, STAKE EROSION CONTROL FABRIC FULL LENGTH IN THE SHOULDER TO PREVENT CONTAMINATION OF THE RAIL BALLAST. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.

TRINCHING:

MATERIALS SUB-CONTRACTOR SHALL:

1. FILL MATERIAL SHALL BE OBTAINED TO THE MAXIMUM EXTENT POSSIBLE FROM EXCAVATIONS ON SITE. THE STRUCTURAL FILL SHALL 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 UNDESIRABLE MATERIALS AND/OR MATERIALS DESIGNATED AS HAZARDOUS OR INDUSTRIAL BY THE EPA. THE FILL MATERIAL SHALL CONTAIN FINES SUFFICIENT TO FILL ALL HOLES IN THE MATERIAL BACKFILL OR BROWN SOIL. SHALL BE PLACED IN 6" LOOSE LIFTS.

PIPE DESIGN AND PENETRATION SUB-CONTRACTOR SHALL:

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

TRINCH EXCAVATION SUB-CONTRACTOR SHALL:

1. DIG TRENCH TO LINES AND GRADES SHOWN ON THE PLANS OR AS DIRECTED BY THE CONSTRUCTION MANAGER.
2. TRENCH LINE SHALL BE SUFFICIENT TO ALLOW FOR SATISFACTORY CONSTRUCTION AND INSPECTION OF THE PROJECT WITHOUT OBSTRUCTING TO 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 UP TO 10" OF LOOSE MEASURE.
3. PROJECT CONDUIT FROM LATERAL MOVEMENT AND DAMAGE FROM IMPACT OF UNBALANCED LOADING TO AVOID DISPLACEMENT OF CONDUIT AND/OR STRUCTURES, DO NOT FREE FALL BACKFILL INTO TRENCH UNTIL AT LEAST 6" OF COVER IS OVER CONDUIT.

COMPACTION SUB-CONTRACTOR SHALL:

1. COMPACT BACKFILL TO 95% MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D-1557 WITH PLUS OR MINUS 1% OF OPTIMUM MOISTURE CONTENT.
2. IF REQUIRED COMPACTION SHALL NOT BE OBTAINED BEFORE THE BACKFILL FROM THE TRENCH OR STRUCTURE REPLACE WITH APPROVED BACKFILL AND RE-COMPACT AS SPECIFIED.
3. ANY SUBSEQUENT SETTLEMENT DURING OR AFTER CONSTRUCTION DURING THE WARRANTY PERIOD SHALL BE CONSIDERED THE RESULT OF IMPROPER COMPACTION AND SHALL PROMPTLY CORRECTED.

FENCING AND GATES(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. HEIGHT 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 1% 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 SPILLS MUST BE CORRECTED TO PRELUDE CONTAMINATION OF SAID SURFACE COURSE.
4. SUBMITTALS

A. MANUFACTURER'S DISCREPANCY 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 HOT-DIPPED GALVANIZED.
- B. FABRIC SHALL BE SIX-FOOT HIGH TWO-INCH CHAIN LINK MESH OF NO. 9 GAUGE (0.147" WIRE). THE FABRIC SHALL HAVE A KNOCKED 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-188 AND OF THE FOLLOWING DIAMETER: 40 (2 3/8" O.D.) CONCRETE 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 BARRED WIRE.
- F. ALL TOP AND BRACE RAILS SHALL BE 1 1/2" DIAMETER SCHEDULE - 40 MECHANICAL-SERVICE PIPE.
- G. GATE FRAMES AND BRACES SHALL BE 1 1/2" DIAMETER SCHEDULE 40 MECHANICAL-SERVICE PIPE.
- H. GATE FRAMES SHALL HAVE WELDED CORNERS.
- I. GATE FRAMES SHALL HAVE A FOUR-SIDE VERTICAL BRACE AND A FULL-WIDTH HORIZONTAL BRACE, SECURED IN PLACE BY USE OF GATE BRACE CLAMPS.
- J. GATE BRACE SHALL BE MERCHANTS METAL MESH. BRACE HINGE ADAPTER WITH MODEL 8469, 180-DIGREE ATTACHMENT.
- K. THE GATE LATCH ASSEMBLY SHALL BE HEAVY DUTY DOUBLE GATE LATCH. SEE DETAIL.
- L. LATCHES AND STOPS SHALL BE PROVIDED FOR ALL GATES.
- M. PLUNGER ROD COMPLETE WITH RECEPTOR TO BE PROVIDED AT THE INACTIVE LEAF OF ALL DOUBLE GATE INSTALLATIONS.
- N. ALL STOPS SHALL HAVE KEEPERS CAPABLE OF HOLDING THE GATE LEAF IN THE OPEN POSITION.
- O. 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.
- P. A SIX-INCH BY 1/2-INCH DIAMETER EYE-BOLT TO HOLD TENSION WIRE SHALL BE PLACED AT LINE POSTS.
- Q. STRETCHER BARS SHALL BE 3/8"-INCH BY 3/4"-INCH OR HAVE EQUIVALENT CROSS-SECTIONAL AREA.
- R. ALL CORNER GATE AND PASTS SHALL HAVE A 3/8"-INCH TRUSS ROD WITH TURNBUCKLES.
- S. ALL POSTS EXCEPT GATE POSTS SHALL HAVE A COMBINATION CAP AND BARBED WIRE SUPPORTING ARM. GATE POSTS SHALL HAVE A SOLE CAP.
- T. OTHER HARDWARE INCLUDES BUT MAY NOT BE LIMITED TO THE CLIPS, BAND CLIPS AND TENSION BAND CLIPS.
- U. BARBED WIRE GATE GUARDS SHALL BE FITTED WITH DOME CAPS.
- V. BARBED WIRE SUPPORT ARMS SHALL BE PRECISE STEEL COMPLETE WITH SET BOLT AND LOCK WIRE IN THE ARM.
- W. ALL CAPS SHALL BE MALLEABLE IRON, DOME OR AROUND SHAPED AS REQUIRED BY PIPE SIZE.
- X. WHERE THE USE OF CONCRETE HAS BEEN SPECIFIED, 24-INCH DIAMETERS COIL BARBED TAPE, STAINLESS STEEL CYCLOPE TENSILE MESH, OR TRENCH 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.





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REV.	DATE	DESCRIPTION	BY
A	03/27/25	ISSUED FOR REVIEW	JUS
B	06/10/25	ISSUED FOR REVIEW	JUS
C	12/10/25	ISSUED FOR REVIEW	RA
D	12/10/25	ISSUED FOR REVIEW	RA

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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

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 SOUTH DAKOTA

SITE NUMBER: S0104992
SITE NAME: DEADWOOD CREEK
FA# 16125488
CITY WATER TANK PROPERTY
MCCORMICK HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
GENERAL NOTES
SHEET NUMBER
GN-3

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO SHAWNEE. ANY USE OR REUSE OF THIS INFORMATION WITHOUT THE WRITTEN PERMISSION OF SHAWNEE IS PROHIBITED.

PART 3 - EXECUTION

1. INSPECTION

A. 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 INTERVALS.

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 TROSS RODS WITH TIE-CLIPS AT (2) FOOT INTERVALS.

F. A MAXIMUM GAP OF ONE INCH WILL BE PERMITTED BETWEEN THE CHAIN LINK FABRIC AND THE FINAL RAIL.

G. GATE SHALL BE INSTALLED SO LOCKS ARE ACCESSIBLE FROM BOTH SIDES.

H. ON LIMEING BRG TO SHALL HAVE THEIR THREADS PLENEO OR WELDED TO PREVENT UNAUTHORIZED REMOVAL.

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

3. PROTECTION

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

APPLICABLE STANDARDS

ASTM-A302 SPECIFICATION FOR PIPE, STEEL BLACK AND HOT-DIPPED ZINC COATED (GALVANIZED) WELDED AND SEAMLESS, FOR ORDINARY USES.

ASTM-A113 ZINC (HOT-DIP GALVANIZED) COATING ON IRON AND STEEL PRODUCTS.

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

ASTM-A392 SPECIFICATION FOR ZINC-COATED STEEL CHAIN LINK FENCE FABRIC.

ASTM-A491 STANDARD SPECIFICATION FOR ALUMINUM-COATED STEEL CHAIN LINK FENCE FABRIC.

ASTM-A525 STANDARD SPECIFICATION FOR STEEL SHEET ZINC COATED (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 AND ACCESSORIES RR-F-191 - FENCING, WIRE AND POST METAL (AND GATES, CHAIN LINK FENCE FABRIC, AND ACCESSORIES)

METALS

PART 1 - GENERAL

SPECIFICATION INCLUDES:

1. STRUCTURAL STEEL FRAMING MEMBERS, BASE PLATES, PLATES, BARS, THROUGHS, STRUCTURAL FASTENERS, ANTENNA SUPPORT ASSEMBLIES, GRATING, STEEL PLATFORMS AND PEDISTAL SUPPORTS, AND GRROUTING UNDER BASE PLATES.

QUALITY ASSURANCE

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

2. 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

C. ANCHOR BOLTS: ASTM A307, TYPE E OR S, GRADE B

D. BOLTS, NUTS, AND WASHERS: ASTM A325

E. ANCHOR BOLTS: ASTM A307

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

G. GROUT, NON-SHRINK TYPE, PREMIXED COMPOUND CONSISTING OF NONMETALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZER ADDITIVES, CAPABLE OF DEVELOPING A MINIMUM COMPRESSIVE STRENGTH OF 7,000 PSI AT 28 DAYS.

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

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

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

3. FINISH:

A. PREPARE STRUCTURAL COMPONENT SURFACES IN ACCORDANCE WITH SSPC SP-1 TO SP-10 PROCEDURE.

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.

ERECTION:

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

2. NO UNAUTHORIZED WELDING SHALL BE PERFORMED ON CROWN CASTLE LOCAL INC. JOINTS. ALL OTHER WELDING SHALL, IN ACCORDANCE WITH AMERICAN WELDING SOCIETY AWS D1.1 STRUCTURAL STEEL WELDING CODE, STEEL WELD ELECTRODES SHALL BE LISTED FIELD CUT OR ALTER STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER.

3. 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

1. 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 CONTRACTOR CONSTRUCTION MANAGER PRIOR TO PLACEMENT OF CONCRETE.

C. THE CONTRACTOR CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.

3. QUALITY ASSURANCE

A. CONSTRUCT AND EXECUT CONCRETE FORM WORK IN ACCORDANCE WITH ACI 301 AND ACI 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

1. SUBMIT CONCRETE MIX DESIGN AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY CONTRACTOR CONSTRUCTION MANAGER/ENGINEER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN SET 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, B051, YIELD GRADE, REINFORCING STEEL RODS, PLAN FINISH.

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

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 AGGREGATE: ASTM C33 - MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED ONE (1) INCH SIZE, SUITABLE FOR INSTALLATION METHOD UTILIZED FOR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCEMENT.

C. WATER: CLEAN AND NOT DETRIMENTAL TO CONCRETE.

D. AIR ENTRAINING ADJUTURE: ASTM C262.

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 PLASTICIZING 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, A.I.T. 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 14 SHALL BE SATISFIED BASED ON THE CONDITIONS SPECIFIED AT THE SITE. PROVIDE CONCRETE AS FOLLOWS:

1. COMPRESSIVE STRENGTH: 4,000 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 EMBEDDED 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, NO 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 OTHERWISE.

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 IMPARTIAL 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 VERTICAL 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 IT REPRESENTS.

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 CONTRACTOR CONSTRUCTION MANAGER.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL MATERIALS, EQUIPMENT AND INSTALLATION PROCEDURES TO CONFORM WITH CONTRACTOR SPECIFICATIONS.

2. CONTRACTOR SHALL PERFORM ALL VERIFICATION TESTS AND EXAMINATION WORK PRIOR TO THE BEGINNING 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 40,000 AC.

6. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY CONTRACTOR FOR HIS CABINET.

7. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.

8. PROVIDE CONTRACTOR WITH ONE SET OF COMPLETE ELECTRICAL "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL ROUTINGS AND WIRING CONNECTIONS.

9. ALL SINGLE-PHASE SELF CONTAINED METER CONNECTION DEVICES MUST INCLUDE HOHN TYPE BY-PASS PROVISION SO THAT SERVICES WILL NOT BE INTERRUPTED WHEN A METER IS REMOVED FROM THE SOCKET.

10. ALL EQUIPMENT PUNCH OUTS AND CONDUITS (USED AND SPARE) TO BE ROCKET PROOFED WITH CAPS, STEEL MESH, AND/OR FOAM FILL BY CONTRACTOR AS NEEDED.

11. NO SPOLS TO BE LEFT ON SITE WITHOUT THE WRITTEN CONSENT OF THE LANDOWNER.

12. CONTRACTOR TO PROVIDE 2 PHENOLIC LABELS AT METER ONE TO IDENTIFY "CONTRACTOR DISCONNECT" AND THE OTHER TO PER 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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A	03/27/25	ISSUED FOR REVIEW	JUS
B	06/10/25	ISSUED FOR REVIEW	JUS
C	12/10/25	ISSUED FOR REVIEW	RA
D	12/30/25	ISSUED FOR REVIEW	RA

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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 SOUTH DAKOTA

SITE NUMBER: S0104992
 SITE NAME: DEADWOOD CREEK
 FA#: 16125488
 CITY WATER TANK PROPERTY
 MCCORMICK HILL ROAD
 DEADWOOD, SD 57732

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-4

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO WESTCHESTER SERVICES. ANY USE OR REPRODUCTION OTHER THAN THAT WHICH RESULTS TO CHANGES SPECIFIED IS STRICTLY PROHIBITED.

GENERAL ELECTRICAL NOTES:

- 1. ALL ELECTRICAL MATERIALS, EQUIPMENT AND INSTALLATION PROCEDURES TO CONFORM WITH CONTRACTOR 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, IEEE, AND UL LISTED.
4. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GRADUATED 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 AC.
6. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO VENDOR PRINTS PROVIDED BY CONTRACTOR FOR EACH CABINET.
7. PATCH, REPAIR, AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
8. PROVIDE CONTRACTOR WITH ONE SET OF COMPLETE ELECTRICAL "AS-BUILT" DRAWINGS AT THE COMPLETION OF THE JOB SHOWING ACTUAL ROUTINGS AND WIRING CONNECTIONS.
9. ALL SINGLE-PHASE SELF CONTAINED METER CONNECTION DEVICES MUST INCLUDE HOORN TYPE BY-PASS PROVISION SO THAT SERVICES WILL NOT BE INTERRUPTED WHEN A METER IS REMOVED FROM THE SOCKET.
10. ALL EQUIPMENT PUNCH OUTS AND CONDUITS (USED AND SPARE) TO BE ROOFTOP PROTECTED WITH CAPS, STEEL, WELDED AND/OR FOAM FILL BY CONTRACTOR AS NOTED.
11. NO SPOLS TO BE LEFT ON SITE WITHOUT THE WRITTEN CONSENT OF THE LANDOWNER.
12. CONTRACTOR TO PROVIDE 2 PHENOLIC LABELS AT METER ONE TO IDENTIFY CONTRACTOR 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.
14. ALL EQUIPMENT, MATERIAL AND THE INSTALLATION METHODS SPECIFIED ON THE PROJECT DRAWINGS SHALL BE DESIGNED AND FABRICATED IN COMPLIANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL CODES AND REGULATIONS, AND APPROPRIATE INDUSTRIAL CONSENSUS STANDARDS AND CODES INCLUDING ANSI, IEEE, NEMA, NFPA AND UL, ALL AS REVISED AS OF THE DATE OF THIS WORK PACKAGE.
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 WIRES REQUIRED, FUSES ARE OF THE PROPER TYPE AND SIZE, AND ELECTRICAL DISCREPANCIES ARE OF THE PROPER NEMA TYPE.
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.
18. ELECTRICAL WORK REPRESENTED ON THE PROJECT DRAWINGS IS SHOWN DIAGONALLY, EXACT LOCATIONS AND ELEVATIONS OF ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND VERIFIED WITH THE OWNER'S REPRESENTATIVE.
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 MOULDED CASE BOLT ON, THERMAL MAGNETIC TRIP, SINGLE TWO OR THREE POLE CIRCUIT BREAKERS. MULTIPLE POLE CIRCUIT BREAKERS SHALL BE SINGLE HANDY 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.
21. 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 COMPILING 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, RAILS AND OTHER SHAPES OF ADEQUATE SIZE AND FASTENED WITH BOLTS, SCREWS OR BY WELDING TO PROVIDE ROOF SUPPORT.
23. CONTRACTOR SHALL CALL THE APPROPRIATE UTILITIES PROTECTION SERVICE BEFORE ANY UNDERGROUND WORK IS PERFORMED, SUCH AS TRENCHING, EXCAVATING, AND DRIVING GROUNDING RODS.
24. 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 CONTRACTOR SPECIFICATIONS.

GENERAL BACKLAWY NOTES:

- 1. 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 CODES AND REQUIREMENTS OF NEC, PARAGRAPH 346 AND BE STANDARD WEIGHT, WILD IRON STEEL, HOT DIP GALVANIZED WITH ROSE AND OUTSIDE FINISHED WITH A PROTECTIVE ZINC COATING. COUPING, LEBONS AND BENDS SHALL MEET THESE SAME REQUIREMENTS. FITTINGS SHALL BE OF THE GALVANIZED IRON OR STEEL, TIRASGATED TYPE.
B. PVC CONDUIT SHALL CONFORM TO UL STANDARDS 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 CODES 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 LAQUER 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 WALL.
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 CONDUITS.
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 BENDS.
E. MAKE JOINTS AND FITTINGS WATERIGHT 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:

- 1. ALL POWER, CONTROL AND COMMUNICATION WIRING SHALL MEET NEMA-90, ASTM, UL, AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP UNLESS OTHERWISE SPECIFIED.
A. SERVICE ENTRANCE CONDUCTORS SHALL BE COPPER, 600 VOLT, SUNLIGHT RESISTANT, SUITABLE FOR WET LOCATIONS, TYPE USE-2. THE GROUNDING NEUTRAL CONDUCTOR SHALL BE IDENTIFIED WITH A WHITE MARKING AT EACH TERMINATION.
B. CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS SHALL BE COPPER 600 VOLT, TYPE THHN / THWN WITH A MINIMUM SIZE OF #14 AWG.
2. ALL CONDUCTOR ACCESSORIES INCLUDING CONNECTORS, TERMINATIONS, INSULATING MATERIALS, SUPPORT DEVS, 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 COMPANY FOR REFERENCE.
3. 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 BUNNY DUNGUS, VANLUS OR ACCEPTABLE EQUAL OR COMPRESSION TYPE BURNED TYPE THW OR TH (LONG BARREL), RANDUHT 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 60C (140T), CONDUCTORS WITH HIGHER TERMINATION RATINGS SHALL BE PERMITTED, PROVIDED THE AMPACITY OF THE CONDUCTOR SIZE USED.
6. TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUITS RATED OVER 100 AMPERES, OR MARKED FOR HIGHER TERMINATION RATINGS SHALL BE PROVIDED, PROVIDED THE AMPACITY OF EACH CONDUCTOR IS DETERMINED BASED UPON THE 75C (107T) 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 "SODIUM-FREE" ELECTRICAL INSULATING PUTTY AND THEN COVERED WITH TWO HALF TURNS OF TAPE SIMILAR TO 3M COMPANY'S 70 PLUS (X3) 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 CONNECTOR SHALL BE CONSTRUCTED OF FINE GRADE HIGH CONDUCTIVITY COPPER IN ACCORDANCE WITH Q-C-358 AND SHALL BE TH-PLATED IN ACCORDANCE WITH MIL-T-10727. THE INTERIOR SURFACE OF THE CONDUCTOR WIRE BARREL SHALL BE SERRATED AND THE EXTERIOR SURFACE OF THE CONNECTOR WIRE BARREL SHALL BE PROVIDED WITH CRAMP GUIDES.

GENERAL GROUNDING NOTES:

- 1. ALL WORK SHALL COMPLY WITH THE LATEST CONTRACTOR GROUNDING SPECIFICATIONS AND REQUIREMENTS.
2. ALL METALLIC COMPONENTS ON THE SITE MUST BE GROUNDING 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" SEAT 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 CONTRACTOR SPECIFICATIONS.
6. RUN ALL GROUND WIRES IN AN ORGANIZED MANNER, AVOID CROSSING OF WIRES WHEREVER POSSIBLE. DO NOT RUN WIRES OVER CONCRETE SLAB.
7. INSTALL ALL GROUND WIRES IN A DOWNWARD SLOPE FOR MAXIMUM LIGHTNING PROTECTION.
8. MAINTAIN ALL MINIMUM BENDING RADI OF THE GROUNDING WIRES.
9. DO NOT REMOVE MORE INSULATION FROM THE GROUND WIRE THAN NECESSARY WHEN CABLEDING OR CRAMPING IF EXCESS INSULATION IS REMOVED, THE CONNECTION WILL BE CONSIDERED UNACCEPTABLE AND WILL BE CORRECTED PER THE CONTRACTOR REPRESENTATIVE'S DIRECTION.
10. DOWN LEAD FOR ANTENNA SECTORS MUST BE CONNECTED DIRECTLY TO THE GROUND RING.
11. ALL BASE TRANSceiver SITE EQUIPMENT SHALL BE GROUNDING IN ACCORDANCE WITH THE INTERNATIONAL ELECTRIC CODE (IEC) AND THE LATEST EDITION OF LIGHTNING PROTECTION CODE NFPA 780 AND CONTRACTOR STANDARDS.
12. THE ELECTRICAL SERVICE TO THE SITE SHALL BE GROUNDING AT THE SERVICE DISCONNECTING MEANS REQUIRED IN ARTICLE 250 OF THE NATIONAL ELECTRIC CODE, IN ACCORDANCE WITH ANY LOCAL CODES.
13. ALL UNDERGROUND (BELOW GRADE) GROUNDING CONNECTIONS SHALL BE MADE BY THE CABLED PROCESS (MECHANICAL LUG ATTACHMENTS BELOW GRADE ARE NOT ACCEPTABLE). CONNECTIONS SHALL INCLUDE ALL CABLE SPICES (IEC, FS, ETC) ALL CABLE CONNECTIONS TO GROUND RODS, GROUND ROD SPICES, AND LIGHTNING PROTECTION SYSTEM AS INDICATED. ALL MATERIALS USED (MOLDS, WELDING METALS, TOOLS, ETC) SHALL BE BY CABLED AND INSTALLED PER MANUFACTURER RECOMMENDATION AND PROCEDURES.
14. ALL GROUNDING AND BONDING CONDUCTORS THAT ARE CONNECTED ABOVE GRADE INTERIOR TO A BUILDING SHALL BE CONNECTED USING TWO HOLE CRAMP TYPE (COMPRESSION) CONNECTORS FOR #2 AND #6 AWG INSULATED COPPER CONDUCTOR.
15. ALL GROUNDING CONNECTIONS, IN UNDER AND OVERHEAD, MADE THROUGH EMT HAS DEBRIS SHALL BE MADE USING AN ANTI-OXIDATION COMPOUND. THE ANTI-OXIDATION COMPOUND SHALL BE THOMAS AND BETTS KORP-SHIELD (716 OF ACT USE, NEC) 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 CABLED. GALVANIZING SHALL BE REMOVED BY GRINDING SURFACE. TO BARE METAL. SLAG FROM CABLED 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.
18. ALL BELOW GRADE GROUNDING CONDUCTORS SHALL BE BARE SOLID COPPER WIRE. ABOVE-GRADE GROUNDING CONDUCTORS MAY BE EITHER OR AS INDICATED ON THE DRAWINGS:
• BARE TINNED SOLID COPPER WIRE
• THIN-INSULATED, CONTINUOUS GREEN COLOR, SEVEN COPPER WIRE
• THIN-INSULATED, CONTINUOUS GREEN COLOR STRANDED COPPER WIRE
A. THE UNDERGROUND GROUND RING SHALL HAVE A #2 AWG BARE TINNED SOLID COPPER WIRE.
B. #2 THIN SHALL BE STRANDED COPPER WITH GREEN THIN INSULATION SUITABLE FOR WET INSTALLATION (OR SOME ABOVE GROUND APPLICATIONS, I.E. INDOOR GROUNDING RING)
C. #2 BARE TINNED COPPER SHALL BE SOLID. ALL BURNED WIRE SHALL MEET THIS CRITERIA INCLUDING CABLE TRAY GROUNDING WIRES AND WIRES INDICATED ON THE DRAWINGS.
19. ALL HARDWARE, BOLTS, NUTS, WASHERS, AND LOCK WASHERS SHALL BE 16-8 STAINLESS STEEL. EVERY CONNECTION SHALL BE (BOLT-FLATWASHER-BUS-LOG-FLATWASHER-CONSUMER BAR), IN THAT EXACT ORDER WITH HAT FACING OUTWARD, BARK TO BARK LUGGING IS ALL BE (BOLT-FLATWASHER-LUG-FLATWASHER-LUG) IN THAT EXACT ORDER IS ACCEPTED WHERE NECESSARY TO CONNECT MANY LUGS TO A BUS BAR. STACKING OF LUGS, BUS-LOG-LUG, IS NOT ACCEPTABLE.
20. THE COMPRESSION GROUND LUG FOR #2 AWG BARE SOLID GROUNDING CONDUCTORS SHALL BE BURNED TYPE 7430-2TC.
21. THE ANTENNA CABLES SHALL BE GROUNDING 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 SHIELD SHALL BE GROUNDING JUST BEFORE ENTERING THE BITE GROUNDING KIT 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 KORP-SHIELD MUST BE USED ON BOTH SIDES OF THE GROUND BAR.



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Table with 5 columns: REV. NO., DATE, DESCRIPTION, BY, STATUS. Rows A through D showing revision history.

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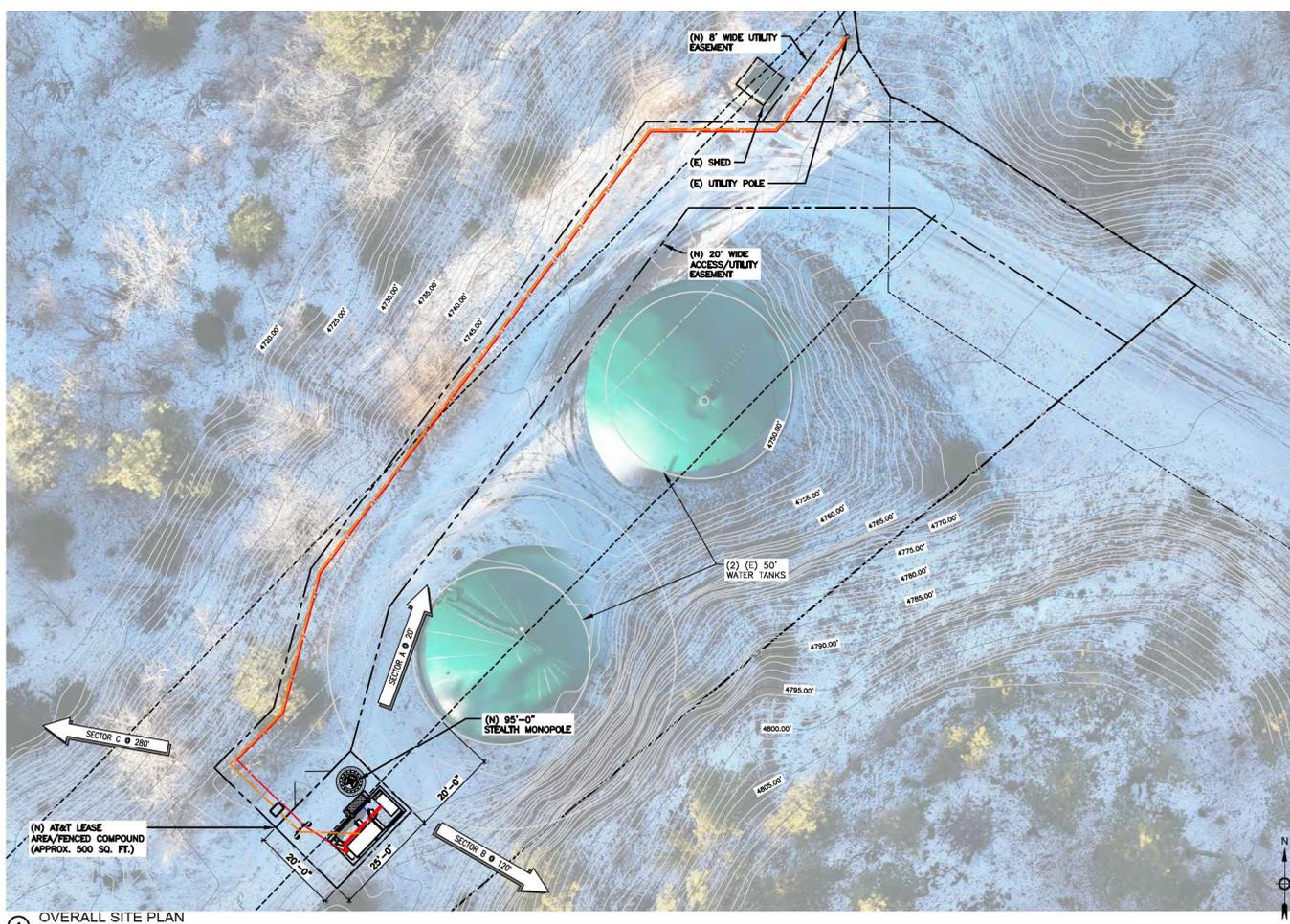
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SITE NAME: DEADWOOD CREEK
FA#: 16125488
CITY WATER TANK PROPERTY
MCCORMICK HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
GENERAL NOTES
SHEET NUMBER
GN-5

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1 OVERALL SITE PLAN

SCALE: 3/32" = 1'-0" (24x36)
 (OR) 3/64" = 1'-0" (11x17)



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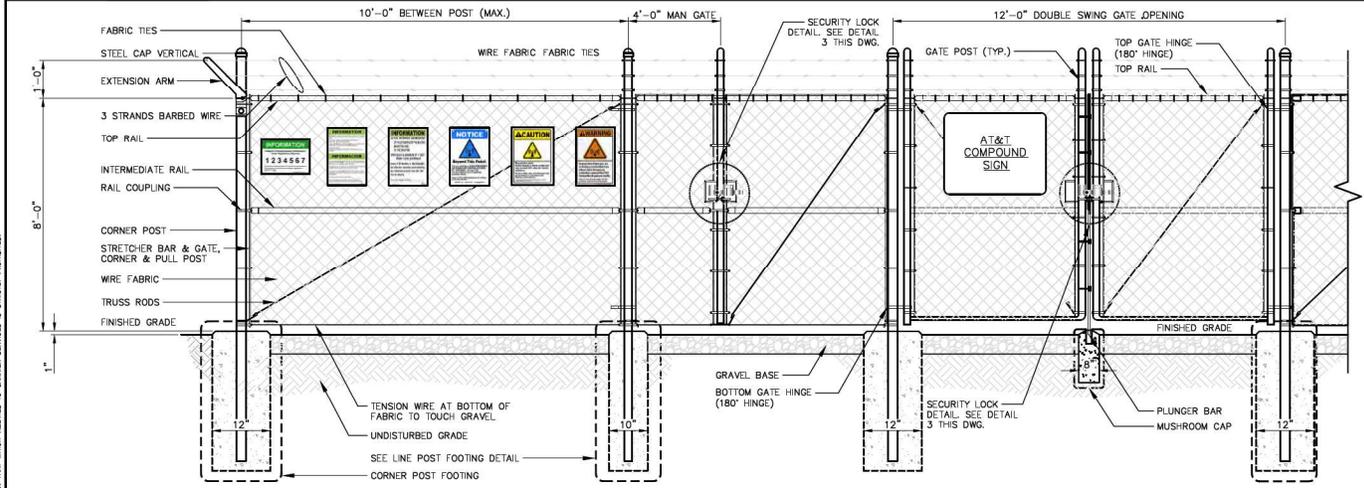
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I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED ARCHITECT UNDER THE LAWS OF THE STATE OF SOUTH DAKOTA

SITE NUMBER: SD104992
 SITE NAME: DEADWOOD CREEK
 FA#: 16125488
 CITY: WATER TANK PROPERTY
 WOODGREEN HILL ROAD
 DEADWOOD, SD 57732

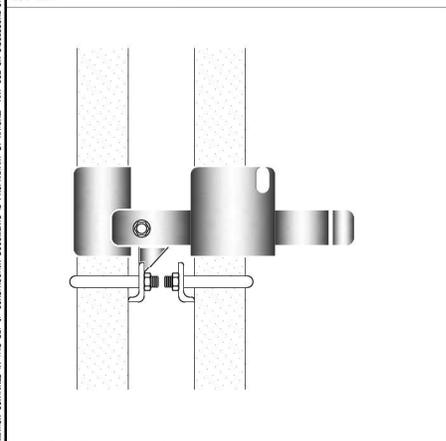
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OVERALL SITE PLAN

SHEET NUMBER
C-1



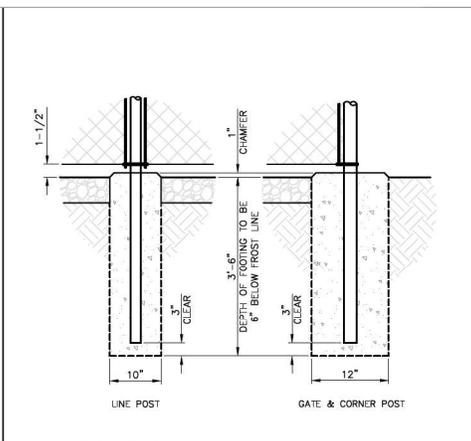
4 FENCE/GATE & GATE STOP DETAIL
N.T.S.

NO SCALE



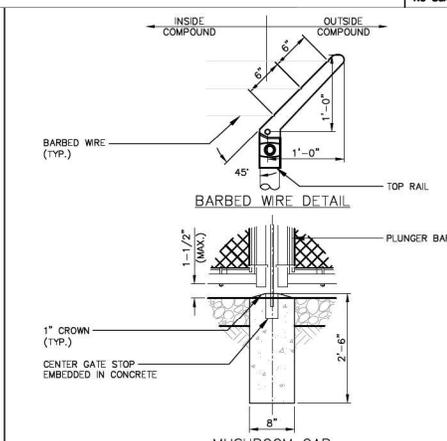
3 STRONGHOLD LATCH DETAIL
N.T.S.

NO SCALE



2 POST FOOTING DETAIL
N.T.S.

NO SCALE



1 DETAILS
N.T.S.

NO SCALE



WESTCHESTER SERVICES LLC

804 FOX GLEN
BARRINGTON, IL 60010
TELEPHONE: 847-277-0070
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JOHN M. BANKS ARCHITECT

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A	03/27/25	ISSUED FOR REVIEW	JS
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C	12/10/25	ISSUED FOR REVIEW	RA
D	12/30/25	ISSUED FOR REVIEW	RA

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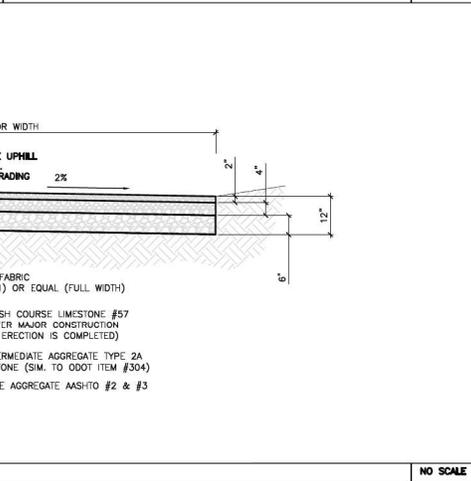
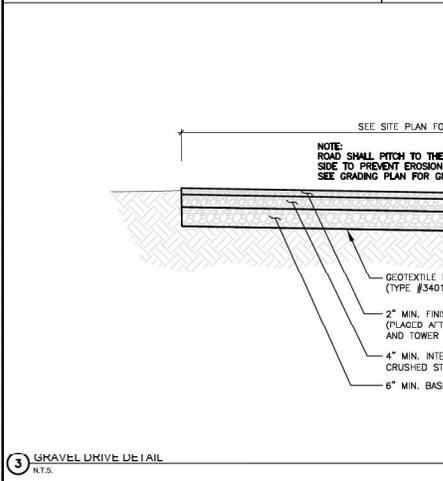
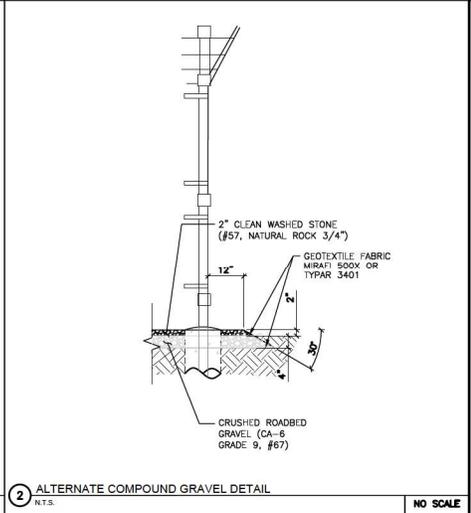
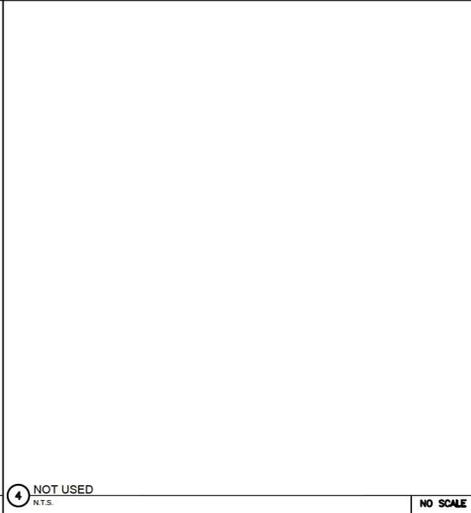
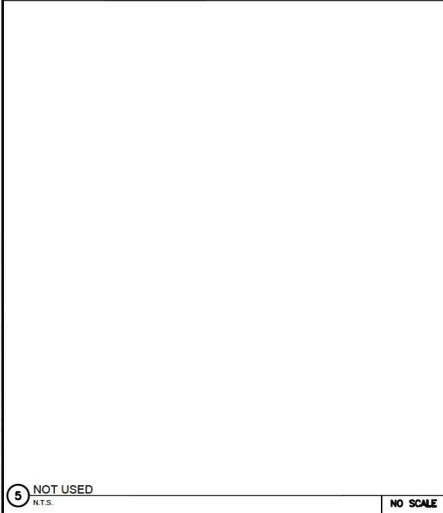
SITE NUMBER: SD104992
SITE NAME: DEADWOOD CREEK
FA#: 16125488
CITY WATER TANK PROPERTY
WOODGARDEN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C-3

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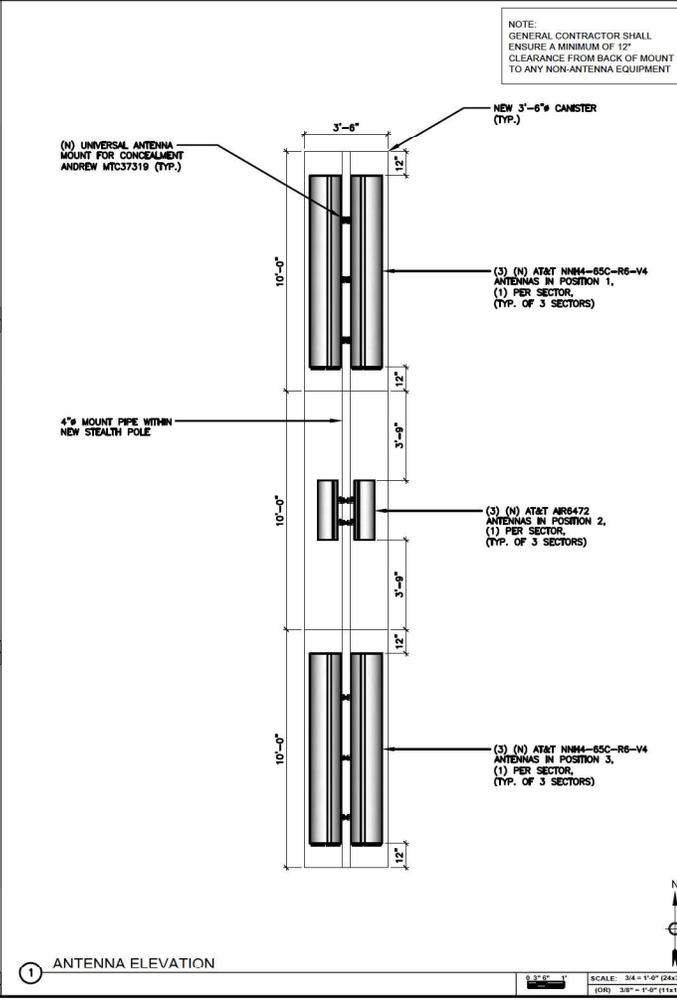
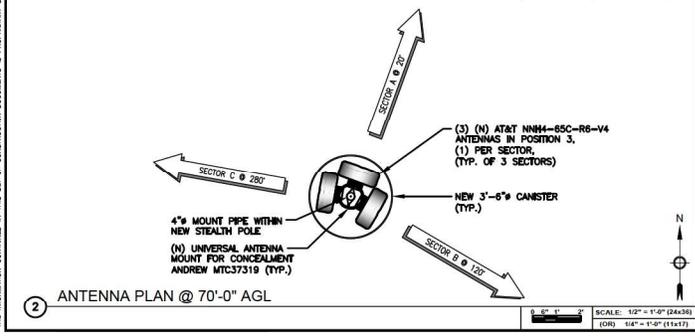
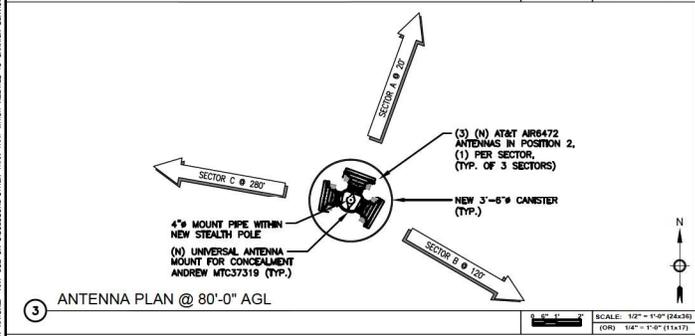
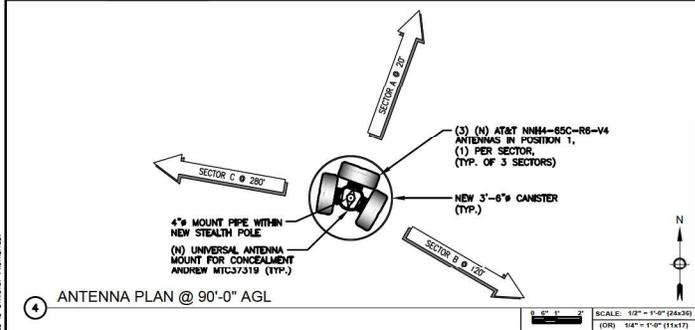
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CITY: WATER TANK PROPERTY
WOODCROFT HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C-4



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MCDOVERN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE

ANTENNA PLAN

SHEET NUMBER

A-1

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- NOTE:
 1. CONTRACTOR TO REFER TO AT&T'S MOST CURRENT RADIO FREQUENCY DATA SHEET (RFDS) PRIOR TO CONSTRUCTION.
 2. CONTRACTOR TO USE ROSENBERGER FIBER LINE HANGER COMPONENTS (OR ENGINEER APPROVED EQUAL).



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 SITE NAME: DEADWOOD CREEK
 FA#: 16125488
 CITY: WATER TANK PROPERTY
 MCCORMICK HILL ROAD
 DEADWOOD, SD 57732

SHEET TITLE
ANTENNA & RRH REQUIREMENTS

SHEET NUMBER
A-2

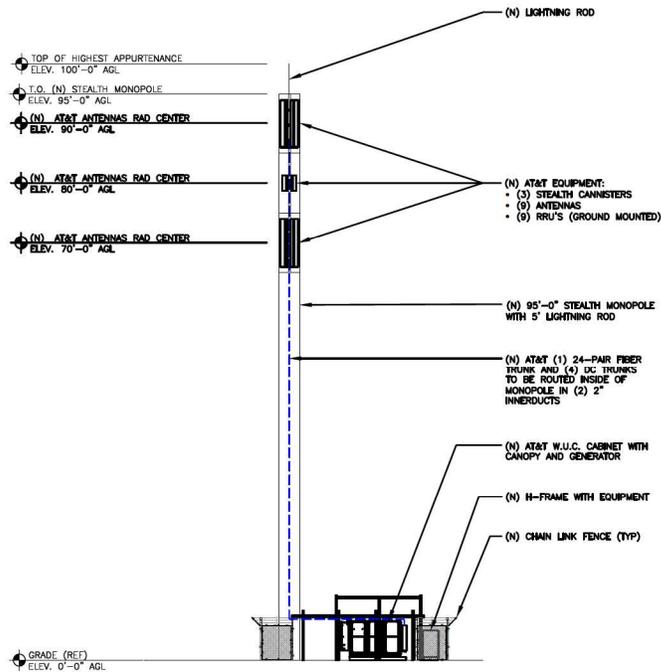
FINAL ANTENNA AND TRANSMISSION EQUIPMENT REQUIREMENTS (VERIFY WITH LATEST RFDS)										
SECTOR	RAD CENTER	POSITION	ANTENNA TILT		AZIMUTH	ANTENNA MODEL	TECHNOLOGY	RRH / TMA	SURGE & DISTRIBUTION	
			MECH	ELEC					MODEL	CABLE (QTY) TYPES
A	90'-0"	1	-	-	20'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4490 B5/B12A	(2) RAYCAP DC9-48-50-24-3C-EV	(4) DC POWER TRUNKS & (1) 24-PAIR FIBER TRUNKS
	80'-0"	2	-	-	20'	ARR6472 B77G B77M W/INTEGRATED RADIO	5G C-BAND	-		
	70'-0"	3	-	-	20'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4494 B14/B29 ERICSSON 4890 B25/B66A		
	-	4	-	-	-	-	-	-		
B	90'-0"	1	-	-	120'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4490 B5/B12A		
	80'-0"	2	-	-	120'	ARR6472 B77G B77M W/INTEGRATED RADIO	5G C-BAND	-		
	70'-0"	3	-	-	120'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4494 B14/B29 ERICSSON 4890 B25/B66A		
	-	4	-	-	-	-	-	-		
C	90'-0"	1	-	-	280'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4490 B5/B12A		
	80'-0"	2	-	-	280'	ARR6472 B77G B77M W/INTEGRATED RADIO	5G C-BAND	-		
	70'-0"	3	-	-	280'	COMMSCOPE NNH4-65C-R6-V4	LTE	ERICSSON 4494 B14/B29 ERICSSON 4890 B25/B66A		
	-	4	-	-	-	-	-	-		

1 ANTENNA & RRH REQUIREMENTS

SCALE
 N.T.S.

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BTS VENDOR NOTE:
ANCHOR BOLTS, SAFETY PEGS, AND PORTHOLES TO BE DETERMINED BY BTS VENDOR TO CORRELATE WITH ANTENNA MOUNT AND AZIMUTHS



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FA#: 16125488
CITY WATER TANK PROPERTY
MCROSVEN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
ELEVATION

SHEET NUMBER
A-3

1 ELEVATION

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)

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12 ANTENNA SPECIFICATIONS
N.T.S.

MANUFACTURER: ERICSSON
MODEL NO.: AIR6472 8770 877M
WEIGHT: 92.8 LBS
BAND: MULTI-BAND
POLARIZATION: DUAL
FREQUENCIES: 3700-3980MHz

9 NOT USED
N.T.S.

6 AIR ANTENNA MOUNTING KIT SPECIFICATIONS
N.T.S.

MANUFACTURER: ERICSSON
MODEL NO.: SK1092064/1
WEIGHT: 10.6 LBS

3 GENERATOR SPECIFICATIONS
N.T.S.

KOHLER 20RE0ZK 20KW GENERATOR
DIMENSIONS, W/TANK LWR: 77.5"X34.7"X52.3" (1980x882x1327mm)
WEIGHT (W/STATE TANK): 621 lbs (1,370 kg)

WESTCHESTER SERVICES LLC
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11 SURGE PROTECTION DETAIL
N.T.S.

NEW SURGE PROTECTION UNIT (RAYCAP P/N DC9-48-60-24-BC-EV)

2 3/8" X 24" SCH 40 GALV STL PIPE MOUNT

STAND-OFF ARM MOUNT (COMMSCOPE P/N XP-197-S OR ENGINEER APPROVED EQUAL)

EXISTING PLATFORM MEMBER

8 ANTENNA MOUNTING DETAIL
N.T.S.

ANTENNA TILT BRACKET (AS REQ'D) BY ANTENNA MFR

PIPE MOUNTING BRACKETS BY ANTENNA

PIPE MOUNT

PANEL ANTENNA

5 ANTENNA SPECIFICATIONS
N.T.S.

MANUFACTURER: COMMSCOPE
MODEL NO.: NNH4-85C-R6-V4
WEIGHT: 102.1 LBS
BAND: MULTI-BAND
POLARIZATION: DUAL
FREQUENCIES: 698-896MHz
1695-2350MHz

2 GPS ANTENNA DETAIL
N.T.S.

GPS ANTENNA

1-1/2" X 3"-0" MAX GALVANIZED STEEL MOUNTING PIPE

CANOPY POST OR SIMILAR POST

PIPE MOUNT KIT COMMSCOPE PART# GP-S24 (OR EQUAL)

GROUND KIT

6 AWG GROUND WIRE TO CADWELD ON POST OR LUG ON GROUND BUS

COAX CABLE AND GROUND KIT (AS REQUIRED BY ANTENNA MANUFACTURER)

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10 KRUS SPECIFICATIONS
N.T.S.

ERICSSON RRUS 4490 B5/B12A
DIMENSIONS, HxWxD: 17.48"x15.12"x6.77"

WEIGHT, WITHOUT MOUNTING KIT: 31 kg (68.3 lbs)

7 KRUS SPECIFICATIONS
N.T.S.

ERICSSON RRUS 4890 B25/B66A
DIMENSIONS, HxWxD: 17.48"x15.12"x6.93"

WEIGHT, WITHOUT MOUNTING KIT: 31 kg (68.3 lbs)

4 KRUS SPECIFICATIONS
N.T.S.

ERICSSON RRUS 4494 B14
DIMENSIONS, HxWxD: 17.48"x15.12"x6.93"

WEIGHT, WITHOUT MOUNTING KIT: 31 kg (68.3 lbs)

1 NOT USED
N.T.S.

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CITY WATER TANK PROPERTY
WOODGLEN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
DETAILS

SHEET NUMBER
D-1

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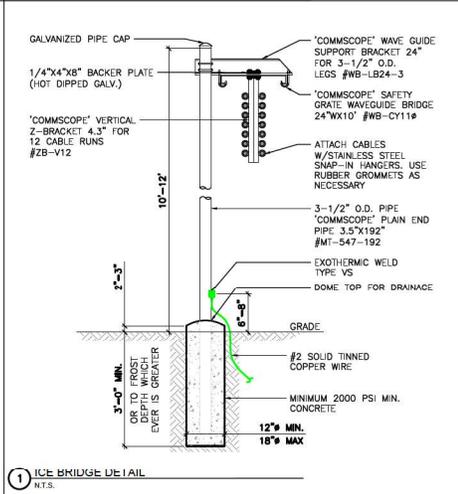
6 NOT USED
N.T.S.

4 NOT USED
N.T.S.

2 NOT USED
N.T.S.

5 NOT USED
N.T.S.

3 NOT USED
N.T.S.



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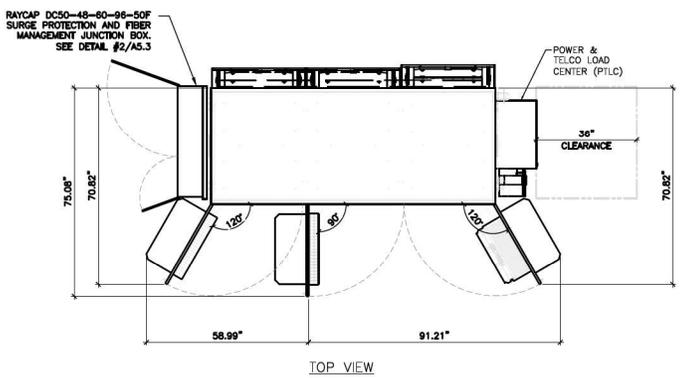
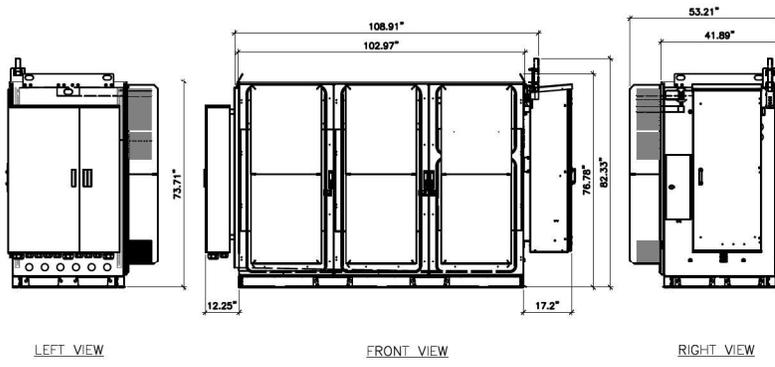
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SHEET TITLE
DETAILS

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D-2

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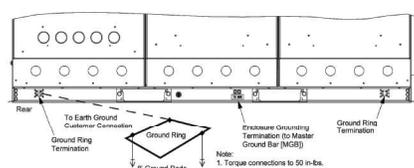


SPECIFICATIONS:

VENDOR:	VERTIV 3-BAY ENCLOSURE
MODEL #:	F2020030
DIMENSIONS (HxWxD):	82.33" x 102.97" x 53.21"
WEIGHT:	SHIPPING: 1,642 lbs LIFT: 2,842 lbs ON PAD: 4,442 lbs (incl. BATTERIES & 1,200 lbs CUSTOMER EQUIP)
LIFT:	COOL WHITE

3 WALK UP CABINET (W.U.C.) DETAIL
N.T.S.

NO SCALE

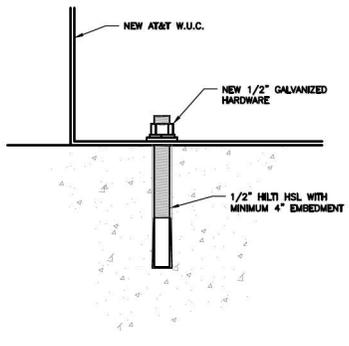


External Grounding: At the center rear of the enclosure's mounting plinth is a grounding location that provides 3/8-16 threaded holes for installation of a customer provided two-hole lug with 3/8-inch mounting holes on 1-inch spacing. This is used to provide a connection from the mounting plinth to the MGB. Also provided on the rear of the enclosure's mounting plinth, at each end, are ground pad termination points that provide 3/8-16 threaded holes for installation of customer provided two-hole lugs with 3/8-inch mounting holes on 1-inch spacing.

Note:
1. Torque connections to 50 in.-lb.

2 CABINET GROUNTING DETAILS
N.T.S.

NO SCALE



1 ANCHOR DETAIL
N.T.S.

NO SCALE



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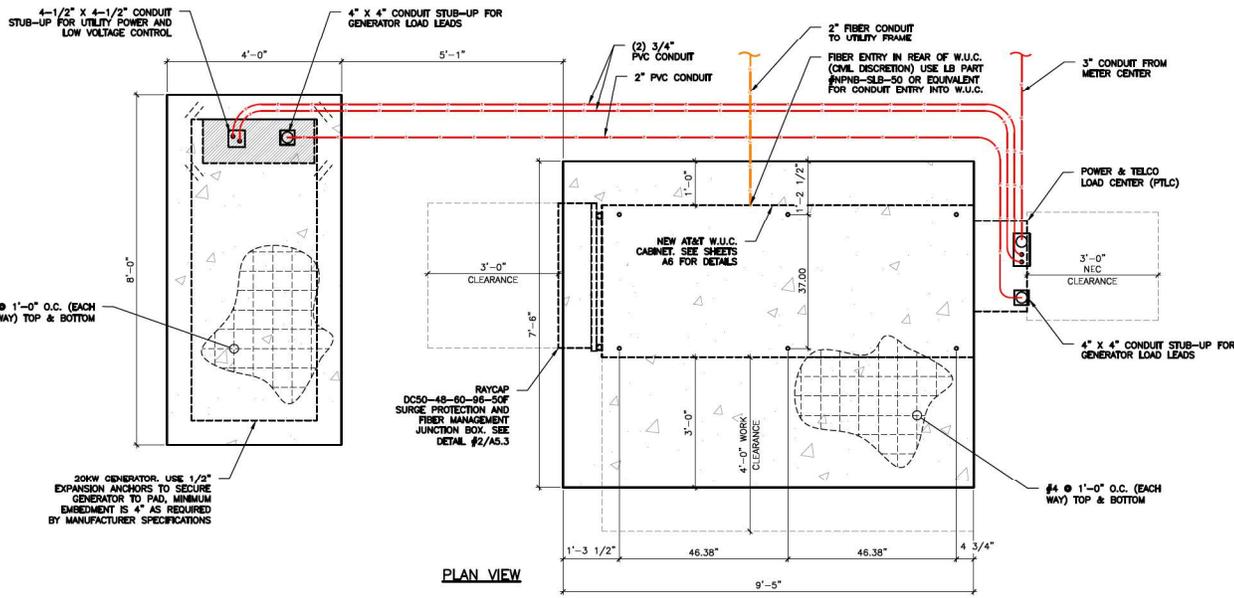
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CABINET DETAILS

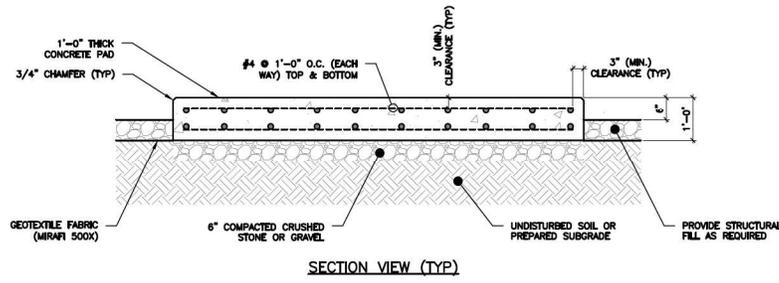
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NPNB - SLB-50 (OR SIMILAR)

1 CONCRETE PAD DETAILS
N.T.S.



SECTION VIEW (TYP)



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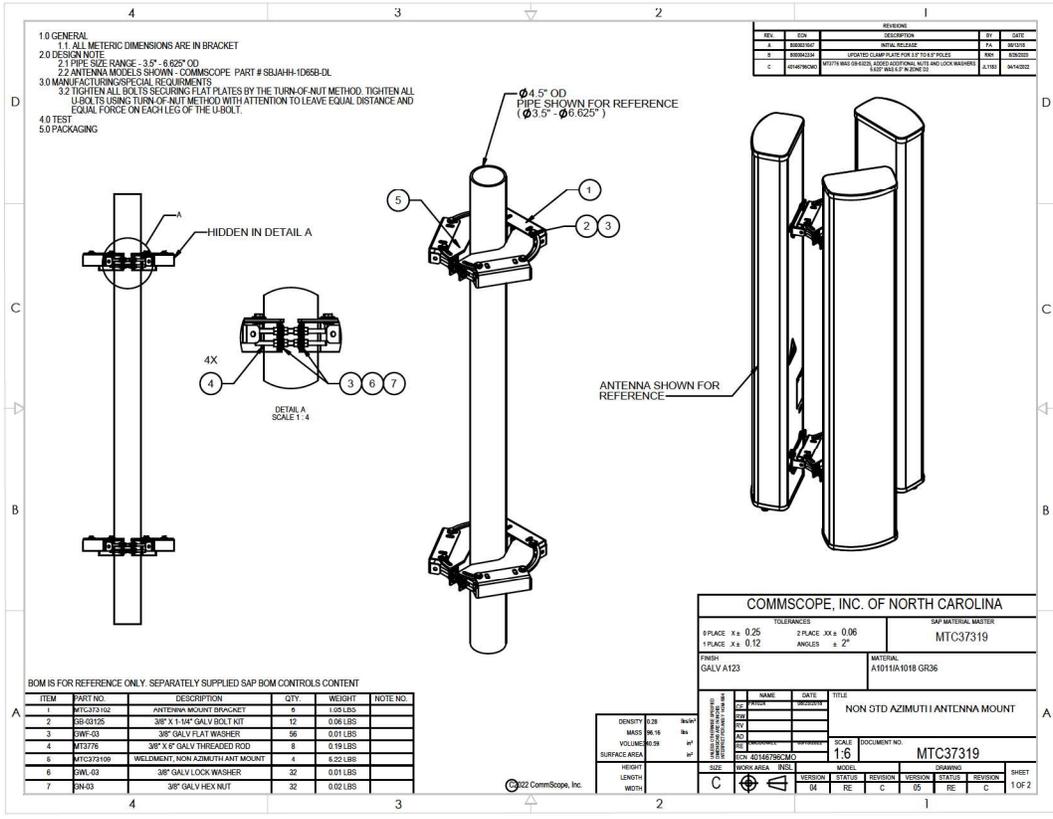
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SITE NUMBER: SD104992
SITE NAME: DEADWOOD CREEK
FA#: 16125488
CITY WATER TANK PROPERTY
MCROCKWEN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
CONCRETE PAD DETAILS

SHEET NUMBER
D-4

NO SCALE



- 1.0 GENERAL
 1.1 ALL METRIC DIMENSIONS ARE IN BRACKET
 2.0 DESIGN NOTE
 2.1 PIPE SIZE RANGE - 3.5" - 6.625" OD
 2.2 ANTENNA MODELS SHOWN - COMMSCOPE PART # SBLAHH-1D65B-DL
 3.0 MANUFACTURING/SPECIAL REQUIREMENTS
 3.2 TIGHTEN ALL BOLTS SECURING FLAT PLATES BY THE TURN-OF-NUT METHOD. TIGHTEN ALL U-BOLTS USING TURN-OF-NUT METHOD WITH ATTENTION TO LEAVE EQUAL DISTANCE AND EQUAL FORCE ON EACH LEG OF THE U-BOLT.
 4.0 TEST
 5.0 PACKAGING

REV	NO.	DESCRIPTION	BY	DATE
A	000001	INITIAL RELEASE	AK	05/20/04
B	000002	UPDATED CLAMP PLATE FOR 1.5" TOLL PILES	AK	05/20/04
C	014679000	NOTIFY WAS OR SEER, ADDITIONAL NOTES, INCLUDE WORKSHEET, AND SCALE OF PILE, ETC.	AK	04/14/05

BOM IS FOR REFERENCE ONLY. SEPARATELY SUPPLIED SAP BOM CONTROLS CONTENT

ITEM	PART NO.	DESCRIPTION	QTY	WEIGHT	NOTE NO.
1	MTC37319	ANTENNA MOUNT BRACKET	4	1.02 LBS	
2	SB-0325	3/8" X 1-1/4" GALV BOLT NUT	12	0.08 LBS	
3	EW-03	3/8" GALV FLAT WASHER	56	0.01 LBS	
4	MTC3776	3/8" X 6" GALV THREADED ROD	8	0.19 LBS	
5	MTC37349	WELDMENT WITH KAMUTITE MOUNT	4	5.23 LBS	
6	EW-03	3/8" GALV LOCK WASHER	32	0.01 LBS	
7	BN-03	3/8" GALV HEX NUT	32	0.02 LBS	

COMMSCOPE, INC. OF NORTH CAROLINA

TOLERANCES: 1 PLACE .xx ± 0.25 2 PLACE .xxx ± 0.06 3 PLACE .xxx ± 0.12 ANGLES ± 2°

SAP MATERIAL MASTER: MTC37319

FINISH: GALV A123 MATERIAL: A1011A1019 GR36

NON STD AZIMUTH ANTENNA MOUNT

SCALE: 1:6 DOCUMENT NO: MTC37319

SIZE: C WORK AREA: INS MODEL: DRAWING: SHEET: 1 OF 2

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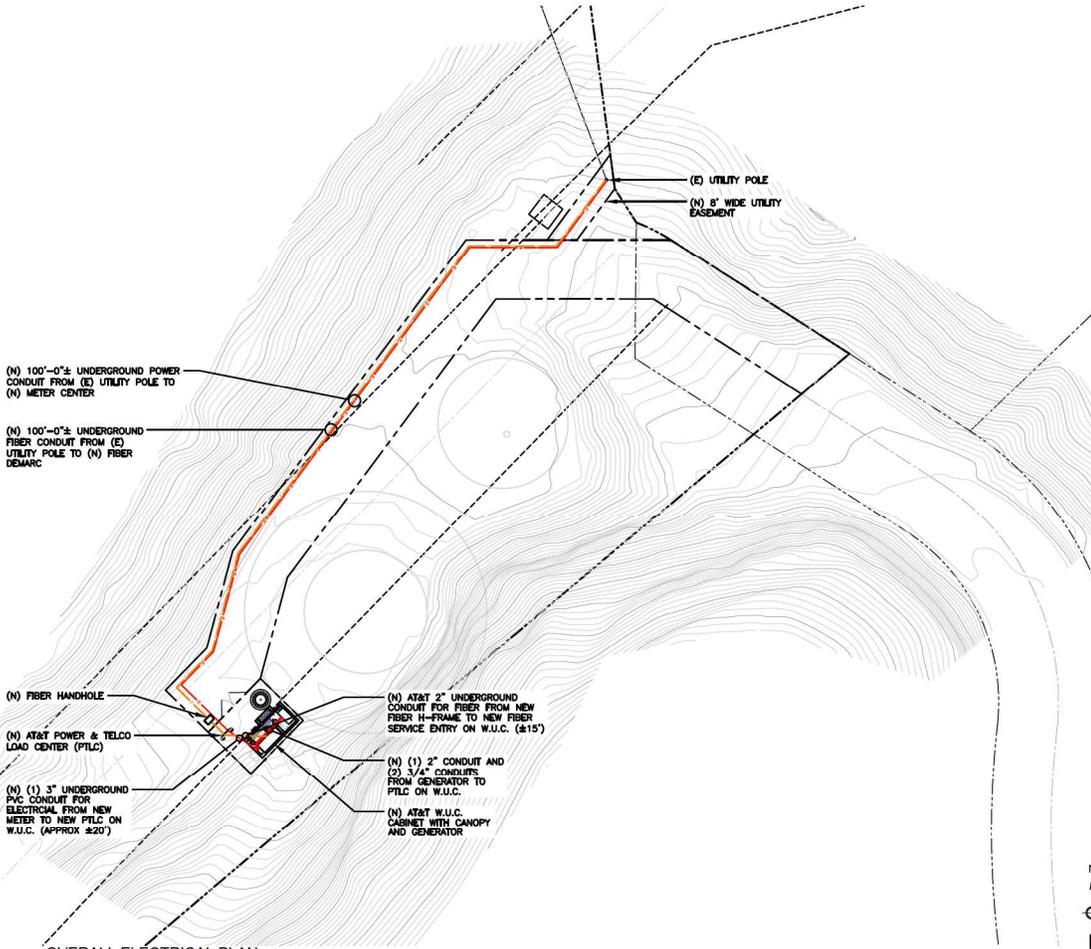
SHEET TITLE
MOUNT DETAILS

SHEET NUMBER
D-5

1 MTC37319 MOUNT DETAIL
 01.5

SCALE
 N.T.S.

NOTE:
UTILITY ROUTE SUBJECT TO CHANGE
PENDING UTILITY COORDINATION



(N) 100'-0"± UNDERGROUND POWER CONDUIT FROM (E) UTILITY POLE TO (N) METER CENTER

(N) 100'-0"± UNDERGROUND FIBER CONDUIT FROM (E) UTILITY POLE TO (N) FIBER DEMARC

(N) FIBER HANDHOLE

(N) AT&T POWER & TELCO LOAD CENTER (PTLC)

(N) (1) 3" UNDERGROUND PVC CONDUIT FOR ELECTRICAL FROM NEW METER TO NEW PTLC ON W.U.C. (APPROX ±20')

(N) AT&T 2" UNDERGROUND CONDUIT FOR FIBER FROM NEW FIBER H-FRAME TO NEW FIBER SERVICE ENTRY ON W.U.C. (±15')

(N) (1) 2" CONDUIT AND (2) 3/4" CONDUITS FROM GENERATOR TO PTLC ON W.U.C.

(N) AT&T W.U.C. CABINET WITH CANOPY AND GENERATOR

NOTES

FENCE
LEASE AREA
PROPOSED ICE BRIDGE
EXISTING ICE BRIDGE
OVERHEAD POWER
UNDERGROUND POWER
OVERHEAD UTILITIES
UNDERGROUND FIBER AND POWER
UNDERGROUND FIBER

LEGEND

1 OVERALL ELECTRICAL PLAN

SCALE: 1/8" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)



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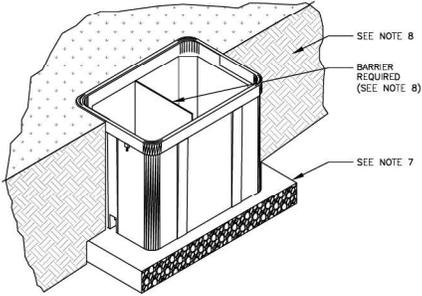
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SHEET TITLE
OVERALL ELECTRICAL PLAN

SHEET NUMBER
E-1

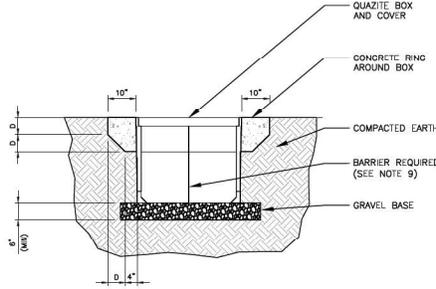
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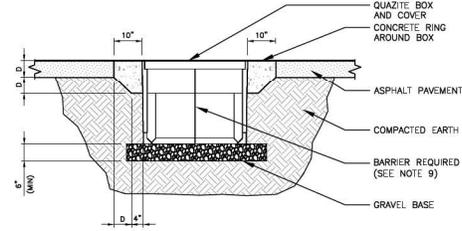
5 CONCRETE COLLAR APPLICATION MOUNTED IN COMPACTED SOIL

SCALE
N.T.S.



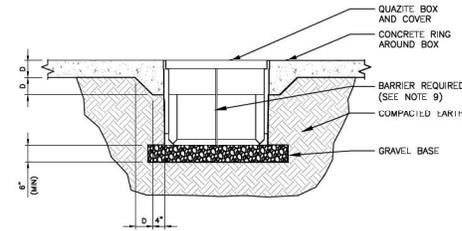
3 CONCRETE COLLAR APPLICATION MOUNTED IN COMPACTED SOIL

SCALE
N.T.S.



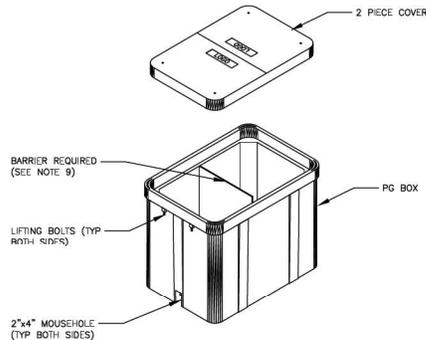
2 CONCRETE COLLAR APPLICATION MOUNTED IN ASPHALT PAVEMENT

SCALE
N.T.S.



1 PG BOX WITH NO CONCRETE COLLAR MOUNTED IN CONCRETE PAVEMENTS

SCALE
N.T.S.



4 TOWER ANTENNA EQUIPMTN GROUNDING ONE-LINE

SCALE
N.T.S.

1. CONCRETE COLLARS MAY BE DESIRED FOR INSTALLATIONS IN DRIVEWAYS, PARKING LOTS AND CITY-ROADWAY APPLICATIONS WHERE SUBJECT TO OCCASIONAL NON-DELIBERATE TRAFFIC. THIS APPLIES TO BOXES MADE FROM ANY MATERIAL TO PROVIDE ADDED PROTECTION FOR THE TOP LID. THIS IS NOT NECESSARY IN GRASSY AREAS OR AREAS SUBJECT TO PEDESTRIAN TRAFFIC.
2. CONCRETE ENCASMENT TO BE 3,000 PSI MIN.
3. CONCRETE ENCASMENT COLLAR DIMENSION "D" TO BE EQUAL TO DESIGN PAVEMENT DEPTH.
4. PAVEMENT AND SUBGRADE TO BE SHOWN ON THE ENGINEERING PLANS.
5. EXCAVATE THE HOLE APPROXIMATELY 6 TO 8" DEEPER THAN SUGGESTED HAND HOLE BURIAL DEPTH.
6. COMPACT THE SUBSOIL WITH A BACK-HOE OR A HYDRAULIC TAMPER. ADD APPROXIMATELY 6 TO 8" OF GRAVEL TO THE BOTTOM OF HOLE.
7. PLACE THE HAND HOLE ON THE LEVELLED GRAVEL BED. LEVEL THE HAND HOLE.
8. BACK-FILL WITH LOOSE EARTH MATERIAL UP TO THE TOP SURFACE OF THE HAND HOLE. DO NOT BACK-FILL WITH CHUNKS OF FROZEN MATERIAL OR LARGE ROCKS NEXT TO THE GROUND SLEEVE. PACK THE BACK-FILL MATERIAL BY FOOT TAMPING, NO MACHINE TAMPING.
9. PROVIDE BARRIER HUBBELL QUAZITE # PG 2436BC30 OR APPROVED 24"x36"x30" UL TIER 22 HAND HOLE.



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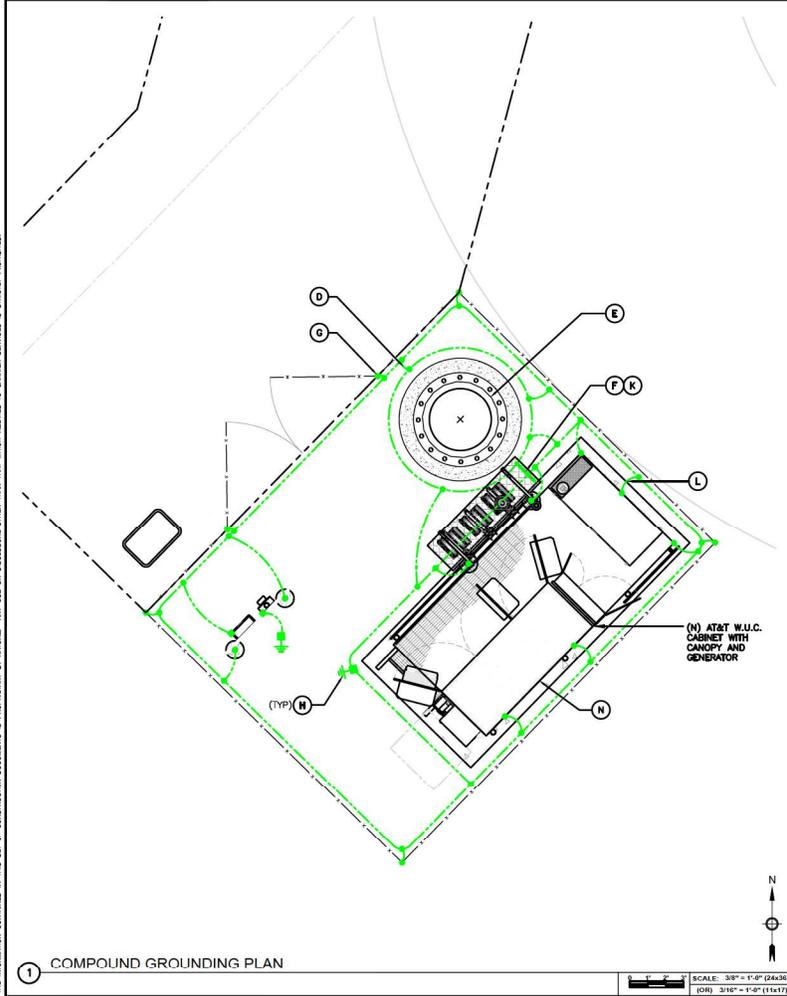
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FA#: 16125488
CITY WATER TANK PROPERTY
WOODCROFT HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
**ELECTRICAL
DETAILS**

SHEET NUMBER
E-3

NOTES

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- (A) GROUNDING BAR: EXTEND TWO (2) #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING UP TO THE HATCHPLATE GROUNDING BAR AND MAKE A MECHANICAL CONNECTION.
 - (B) GROUND ROD: COPPER CLAD STEEL 5/8" (10) TEN FEET LONG. ALL GROUNDING RODS MAY BE INSTALLED WITH INSPECTION SLEEVES.
 - (C) ICE BRIDGE SUPPORT POST GROUNDING: EXTEND #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING TO ALL ICE BRIDGE SUPPORT POSTS AND EXOTHERMICALLY WELD.
 - (D) FENCE GROUNDING: IF FENCE IS WITHIN 6' OF GROUNDING RING, EXTEND #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING TO FENCE POSTS EXOTHERMICALLY WELDED. FENCING FABRIC SHALL BE GROUNDED AT ADJACENT CORNER POST. (2) REQ'D. GROUND INTERMEDIATE POST TO MAINTAIN 25'-0" MAX SPACING.
 - (E) PROPOSED TOWER GROUNDING: EXTEND TWO (2) #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED TOWER. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR GROUNDING CONNECTIONS TO THE TOWER. (APPLICABLE TO NEW TOWERS ONLY.)
 - (F) ANTENNA GROUNDING BAR: EXTEND TWO (2) #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED ANTENNA GROUNDING BAR. MOUNT GROUNDING BAR DIRECTLY TO TOWER. SECURE TO TOWER WITH STAINLESS STEEL MOUNTING MATERIAL.
 - (G) GATE GROUNDING: EXTEND #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING TO GATE POSTS AND EXOTHERMICALLY WELD. SEE DETAIL G-5.
 - (H) TEST GROUND ROD WITH INSPECTION SLEEVE: COPPER CLAD STEEL 5/8" DIA. TEN (10) FEET LONG WITH INSPECTION SLEEVE.
 - (J) MASTER GROUNDING BAR: EXTEND TWO (2) #2 AWG TINNED CU CONDUCTORS FROM BURIED GROUNDING RING UP TO MASTER GROUNDING BAR & MAKE A EXOTHERMIC CONNECTIONS.
 - (K) GROUNDING BAR LOCK BOX: TESCOO PART # 351546; INSTALL PER MANUFACTURER REQUIREMENTS.
 - (L) LE INTO GROUNDING RING: (2) REQ'D
 - (M) ANTENNA GROUNDING BAR: EXTEND TWO (2) #2 AWG TINNED CU CONDUCTOR FROM BURIED GROUNDING RING AND CONNECT TO THE PROPOSED ANTENNA GROUNDING BAR. MOUNT GROUNDING BAR DIRECTLY TO TOWER. SECURE TO TOWER WITH STAINLESS STEEL MOUNTING MATERIAL.
 - (N) PROPOSED EQUIPMENT CABINET: SEE MANUFACTURER SPECIFICATIONS FOR ALL INTERIOR EQUIPMENT GROUNDING.
- (N) AT&T W.U.C. CABINET WITH CANOPY AND GENERATOR
- (TYP) (H)

1. GROUNDING IS SHOWN DIAGRAMMATICALLY ONLY. FOR GROUNDING DETAILS SEE DRAWINGS E-3 THROUGH E-8.
2. TESTING SHALL BE PERFORMED AT ALL SITES WHERE MODIFICATIONS OR ADDITIONS ARE MADE TO THE EXISTING GROUNDING SYSTEM AND SHALL BE IN ACCORDANCE WITH AT&T GROUNDING AND BONDING STANDARDS TP-76416. THE CONTRACTOR SHALL SUPPLY AT&T WITH RESULTS FROM PRE-CONSTRUCTION AND POST-CONSTRUCTION OHM TESTING (GROUNDING) RESULTS AND BE IN COMPLIANCE WITH AT&T GROUNDING AND BONDING STANDARDS TP-76416.
3. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A "FALL OF POTENTIAL" TEST ON THE PROPOSED SUPPLEMENTAL GROUNDING FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED TESTING AGENT. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. THE GROUNDING SYSTEM RESISTANCE TO EARTH GROUNDING SHALL NOT EXCEED (5) OHMS. IF THE GROUNDING TEST EXCEEDS THE MAXIMUM OF (5) OHMS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUNDING RODS AND CONNECTIONS AS REQUIRED TO MEET THE (5) OHMS' MAXIMUM.
4. THE INSPECTOR HAVING JURISDICTION SHALL INSPECT ALL GROUNDING CONNECTIONS FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BEFORE BEING PERMANENTLY CONCEALED.
5. FOR ALL CONNECTIONS TO THE GROUNDING RING, SEE THE SHELTER MANUFACTURER'S DRAWINGS.
6. WHEN AN EXISTING METER RACK IS BEING UTILIZED AND A NEW METER IS INSTALLED IN THE EXISTING METER RACK, THE GROUNDING RODS AND GROUNDING CONDUCTORS OF THE EXISTING GROUNDING RING, SHALL BE EXTENDED TO THE PROPOSED GROUNDING RING AND BECOME A COMPLETE GROUNDING SYSTEM.
7. CONTRACTOR SHALL GROUND ALL EQUIPMENT INCLUDING ANTENNAS, RET MOTORS, TMA'S, COAX CABLES AND RET CONTROL. CABLES AS A COMPLETE SYSTEM. GROUNDING SHALL BE EXECUTED BY QUALIFIED WIREMEN IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
8. FOR GROUNDING INSTALLATIONS WHICH HAVE A LIMITED AREA AND IS BEING REQUIRED TO BE INSTALLED WITHIN THE LEASE AREA ONLY, THE GROUNDING RING CONDUCTORS CAN BE INSTALLED UNDER THE SHELTER'S FOOTINGS.
9. MAIN GROUNDING CONDUCTORS SHALL BE ROUTED AND BONDED TO ALL EFFECTIVE GROUNDING PATHS IN ACCORDANCE WITH AT&T GROUNDING AND BONDING SPECIFICATION 6.3.2 STATED IN TP-76416. THE NEW GROUNDING SYSTEM SHALL BE BONDED (2 PLACES) TO ALL EXISTING GROUNDING SYSTEMS, INCLUDING BUT NOT LIMITED TO BUILDING STEEL STRUCTURE, LIGHTNING PROTECTION SYSTEMS, BUILDING MAIN GROUNDING SYSTEM AND/OR MAIN WATER SUPPLY IF APPLICABLE.
10. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE. THE CONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE AT&T GROUNDING AND BONDING STANDARDS TP-76416 SPECIFICATION 6.3.2.2.

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FA#: 16125488
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MCGOWEN HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE

**COMPOUND
GROUNDING PLAN**

SHEET NUMBER

E-4

SCALE: 3/8" = 1'-0" (24x36)
(OR) 3/16" = 1'-0" (11x17)

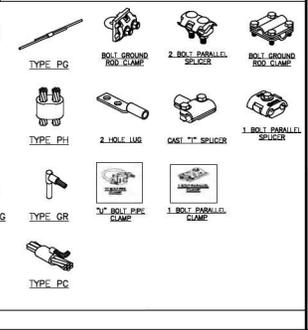
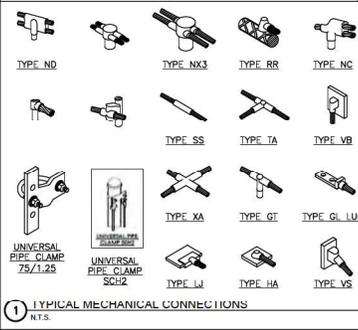
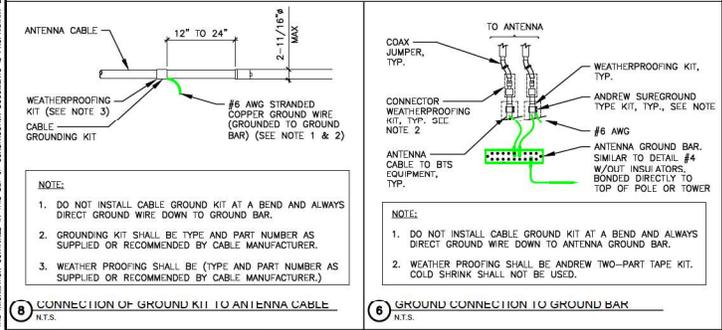
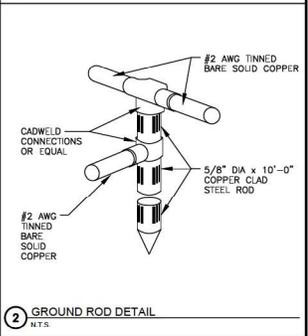
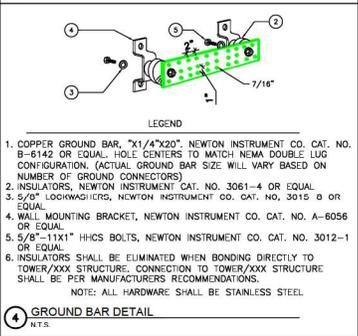
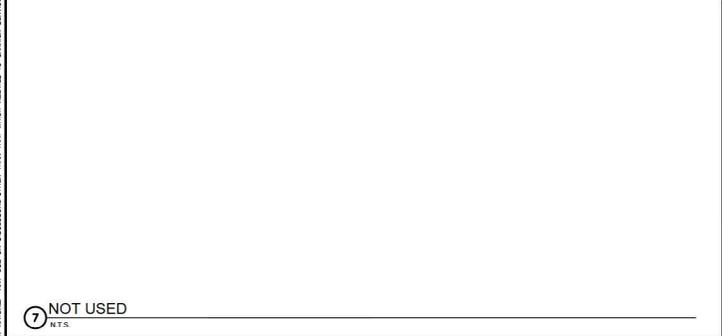
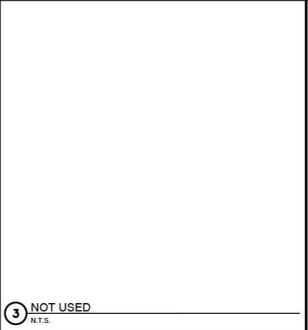
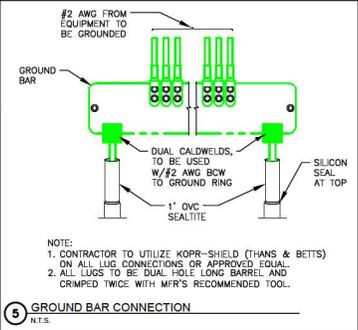
KEYNOTES

NOTES

- EXOTHERMIC TYPE CONNECTIONS
- COMPRESSION TYPE CONNECTIONS
- ⊕ CHEMICAL ELECTROLYTIC GROUNDING SYSTEM
- ⊕ GROUND ROD WITH INSPECTION SLEEVE
- ⊕ TEST GROUND ROD WITH INSPECTION SLEEVE
- ⊕ EXOTHERMIC WITH INSPECTION SLEEVE
- GROUNDING CONDUCTOR
- GROUNDING BAR

LEGEND

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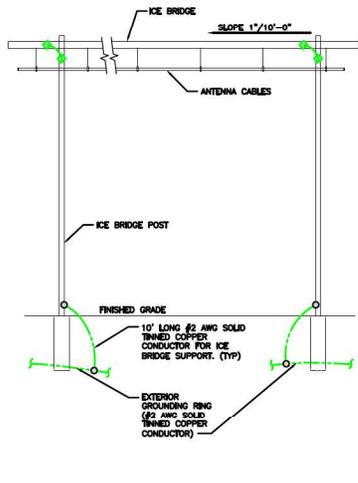
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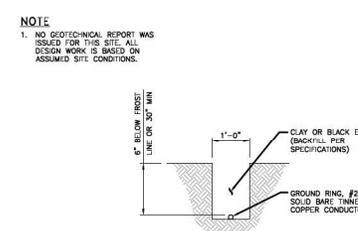
GROUNDING PLANS & NOTES

SHEET NUMBER

E-5



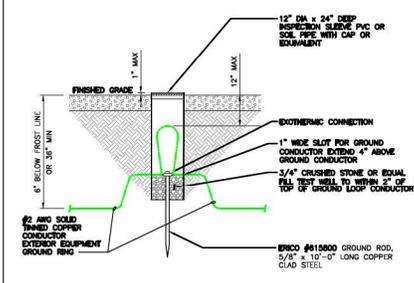
8 ICE BRIDGE DETAIL
N.T.S.



7 GROUNDING TRENCH DETAIL
N.T.S.

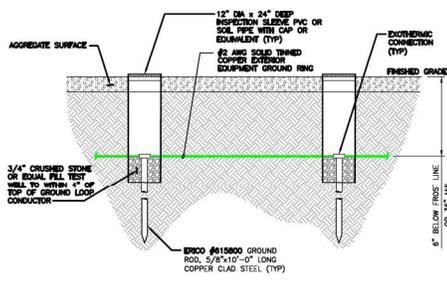
NOTE
1. NO GEOTECHNICAL REPORT WAS ISSUED FOR THIS SITE. ALL DESIGN WORK IS BASED ON ASSUMED SITE CONDITIONS.

6 NOT USED
N.T.S.

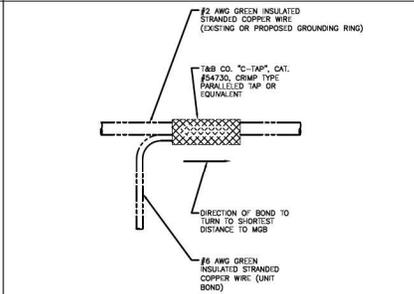


5 TEST GROUND ROD WINSPECTION SLEEVE DETAIL
N.T.S.

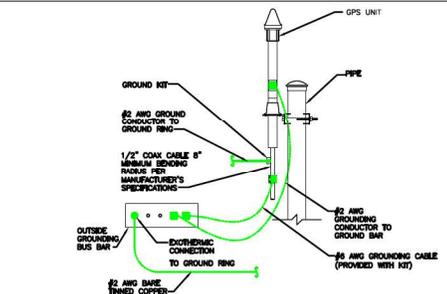
3 NOT USED
N.T.S.



2 GROUNDING ROD WINSPECTION SLEEVE DETAIL
N.T.S.



4 GROUNDING WIRE CONNECTION DETAIL
N.T.S.



1 LTE GPS ANTENNA GROUNDING DETAIL
N.T.S.



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REV.	DATE	DESCRIPTION	BY
A	03/27/25	ISSUED FOR REVIEW	JUS
B	06/10/25	ISSUED FOR REVIEW	JUS
C	12/10/25	ISSUED FOR REVIEW	RA
D	12/30/25	ISSUED FOR REVIEW	RA

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

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

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 SOUTH DAKOTA

SITE NUMBER: SD104992
SITE NAME: DEADWOOD CREEK
FA#: 16125488
CITY WATER TANK PROPERTY
WOODCROFT HILL ROAD
DEADWOOD, SD 57732

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-6

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY TO WESTCHESTER SERVICES, IS STRICTLY CONFIDENTIAL, AND ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RESULTS TO WESTCHESTER SERVICES IS STRICTLY PROHIBITED.

Mastec/AT&T NSB MNP

Site ID: SDL04992

Site Name: Deadwood Creek

FA #: 16125488

6415 W. Mt. Vernon Ave.

Deadwood, SD 57732

Photo Simulations

09/26/2025





Mastec/AT&T NSB MNP – Deadwood Creek View 1 – Existing



Mastec/AT&T NSB MNP – Deadwood Creek View 1 – New 100' Stealth Pole



Mastec/AT&T NSB MNP – Deadwood Creek View 2 – Existing



Mastec/AT&T NSB MNP – Deadwood Creek View 2 – New 100' Stealth Pole



Mastec/AT&T NSB MNP – Deadwood Creek View 3 – Existing



Mastec/AT&T NSB MNP – Deadwood Creek
View 3 – New 100' Stealth Pole