

PROJECT SUMMARY

SITE NAME: CALGARY

SITE ADDRESS: REDFIELD DRIVE
MURFREESBORO, TN 37129

JURISDICTION: RUTHERFORD COUNTY

COUNTY: RUTHERFORD COUNTY

ZONING: RM Δ 02/16/16

PROPERTY ACREAGE: 31.3 ACRES Δ 02/16/16

PROPERTY OWNER: COMER D. FRALEY
6728 BAKER ROAD
MURFREESBORO, TN 37129

TOWER OWNER: VERIZON WIRELESS TENNESSEE PARTNERSHIP
575 HICKORY HILLS BLVD.
WHITES CREEK, TN 37189

PROJECT NUMBER: 20130967443

SITE LOCATION CODE: 278286

KEVIN CALDWELL (615) 714-7114

SITE COORDINATES: 1A

LATITUDE: 35° 54' 28.01" N (NAD 83)
LONGITUDE: 86° 30' 56.66" W (NAD 83)
ELEVATION: 592.06' (NAVD 88)

OCCUPANCY: UNMANNED

CONSTRUCTION TYPE: RAWLAND

TELEPHONE COMPANY: TBD
CONTACT: TBD
PHONE: TBD

POWER COMPANY: MIDDLE TN ELECTRIC COOP
CONTACT: GLENN HOLLANDSWORTH
PHONE: (615) 494-1639
FEES: \$195.00

FIRE DEPARTMENT: ALMAVILLE VOLUNTEER FIRE DEPT.
PHONE: (615) 355-0715

POLICE DEPARTMENT: RUTHERFORD COUNTY SHERIFF
PHONE: (615) 898-7770

E911 ADDRESSING: RUTHERFORD COUNTY PLANNING DEPT.
CONTACT: ERIC McMILLAN
PHONE: (615) 898-7730 Δ 03/21/16

ZONING PROCESS: MUST HAVE POWER COMPANY'S SIGNATURE ON TITLE PAGE OF CONSTRUCTION DRAWINGS.

BUILDING PERMIT PROCESS:
GC MUST PICK UP STAMPED APPROVED PLANS AND ZONING COMPLIANCE FORM FROM PLANNING AND TAKE TO PERMITTING OFFICE. BP APPLICATION IS FILLED OUT IN OFFICE BY CONTRACTOR. MISTY WILL GIVE BP FEE WHEN SHE HAS CODES OF COMPLIANCE. CHECK MADE PAYABLE TO RUTHERFORD COUNTY BUILDING CODES. CONTRACTOR MUST PICK UP 1 STAMPED APPROVED FINAL CD AND THE ZONING COMPLIANCE FORM FROM PLANNING DEPARTMENT LOCATED AT:
#1 SOUTH PUBLIC SQUARE, 2ND FLOOR, MURFREESBORO, TN 37130.
CONTRACTOR MUST THEN TAKE THE STAMPED CD/ZONING COMPLIANCE FORM WITH A CHECK MADE PAYABLE TO RUTHERFORD COUNTY BUILDING CODES ALONG WITH HIS/HER STATE LICENSE AND CERTIFICATE OF INSURANCE. THE BUILDING PERMIT APPLICATION WILL BE FILLED OUT IN THE PERMIT OFFICE BY STAFF. THE PERMIT OFFICE IS LOCATED AT
#1 SOUTH PUBLIC SQUARE, ROOM 101, MURFREESBORO, TN 37130.
THE CONTACT PERSON FOR THE PERMIT WILL BE MISTY WHALEY (615) 907-3524

STRUCTURAL REVIEW

CONTRACTOR SHALL ATTAIN AND VERIFY STRUCTURAL EVALUATION REPORT OF EXISTING TOWER FOR EXACT PLACEMENT OF ANTENNAS AND COAX CABLES. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STRUCTURAL EVALUATION REPORT AND NOTIFY VERIZON'S CONSTRUCTION MANAGER IN THE CASE OF ANY DISCREPANCIES. ANY STRUCTURAL MODIFICATION, IF REQUIRED, SHALL BE DONE PRIOR TO THE INSTALLATION OF ANTENNAS.

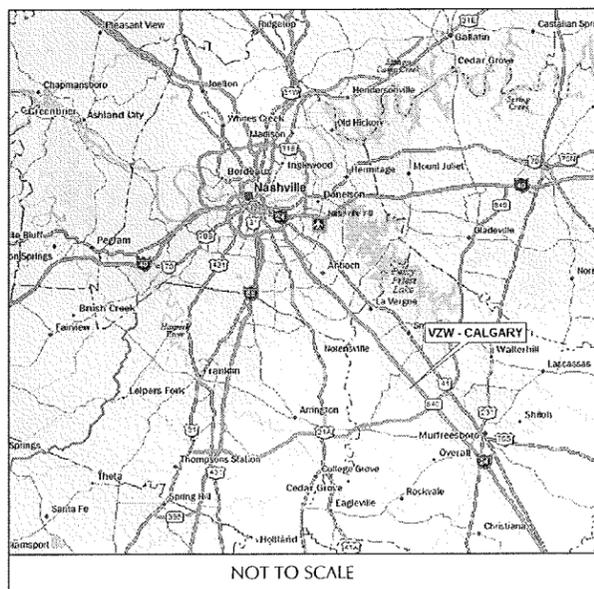


TENNESSEE PARTNERSHIP
(HERE IN AFTER REFERRED TO AS "LESSEE")

575 HICKORY HILLS BLVD.
WHITES CREEK, TN 37189
ATTN: KEVIN CALDWELL (615)-714-7114

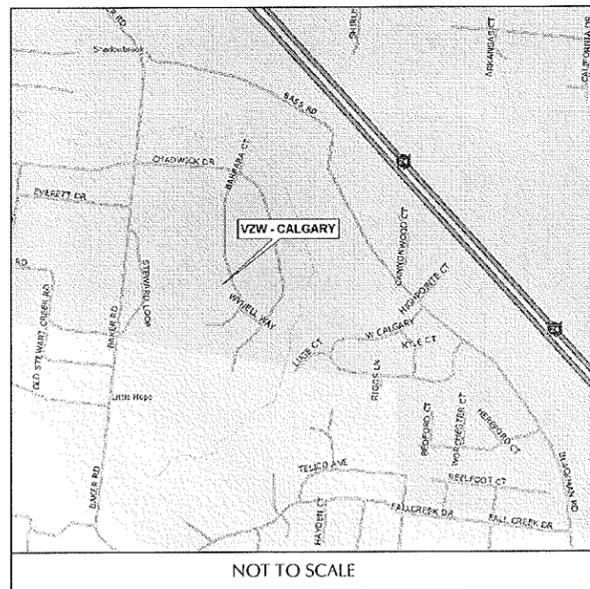
SITE NAME: CALGARY
REDFIELD DRIVE
MURFREESBORO, TN 37129

VICINITY MAP



NOT TO SCALE

LOCATION MAP



NOT TO SCALE

DRIVING DIRECTIONS

FROM VERIZON MTSO, NASHVILLE, TN:
TAKE I-24 E TOWARD NASHVILLE. KEEP LEFT AT THE FORK TO STAY ON I-24 E, FOLLOW SIGNS FOR INTERSTATE 24/INTERSTATE 40 E/CHATTANOOGA/KNOXVILLE. KEEP LEFT TO STAY ON I-24 E, FOLLOW SIGNS FOR I-40 E/KNOXVILLE/CHATTANOOGA. KEEP RIGHT AT THE FORK TO STAY ON I-24 E, FOLLOW SIGNS FOR CHATTANOOGA. TAKE EXIT 70 FOR TN-102/ALMAVILLE RD TOWARD SMYRNA. TURN RIGHT ONTO TN-102 S/ALMAVILLE RD. TURN LEFT ONTO 1 MILE LN. TURN LEFT AT THE 1ST CROSS STREET TO STAY ON 1 MILE LN. TURN RIGHT ONTO BAKER RD. TURN LEFT ONTO CHADWICK DR. TURN RIGHT ONTO REDFIELD DR. SITE IS ON THE RIGHT.

SHEET SCALE FACTOR:
PLOT SIZE:
11"x17": "TO SCALE"
24"x36": 2X SCALE AS NOTED



1 (800) 351-1111
www.tnonecall.com
CONTRACTOR TO CALL TENNESSEE ONE-CALL SYSTEMS AT LEAST (2) WORKING DAYS PRIOR TO DIGGING.

SHEET INDEX

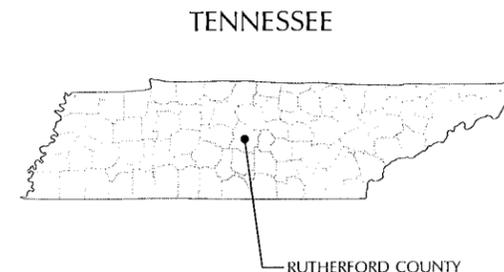
NO.	DESCRIPTION
T1	TITLE SHEET Δ 03/21/16
GN1	GENERAL NOTES
C1	OVERALL SITE LAYOUT PLAN Δ 03/21/16
C1A	OVERALL ZONING PLAN Δ 02/16/16
C2	SITE LAYOUT PLAN Δ 03/21/16
C3	EQUIPMENT LAYOUT PLAN Δ 03/21/16
C4	SITE GRADING PLAN Δ 03/21/16
C5	SITE DETAILS
C6	SITE DETAILS Δ 03/21/16
C6A	SITE DETAILS
C7	SITE DETAILS
C7A	SITE DETAILS
C8	FENCE DETAILS
L1	LANDSCAPE PLAN Δ 03/21/16
L2	LANDSCAPE DETAILS Δ 03/21/16
E1	OVERALL ELECTRICAL SITE PLAN Δ 03/21/16
E1A	ELECTRICAL SITE PLAN Δ 03/21/16
E2	SITE GROUNDING PLAN Δ 03/21/16
E2A	EQUIPMENT GROUNDING PLAN Δ 03/21/16
E3	ELECTRICAL SPECIFICATIONS
E4	ELECTRICAL DETAILS
E5	ELECTRICAL DETAILS
E6	ELECTRICAL DETAILS
E7	SINGLE LINE DIAGRAM
E8	GROUNDING SINGLE LINE

CERTIFICATE OF ELECTRIC

MIDDLE TENNESSEE ELECTRIC MEMBERSHIP CORPORATION (MTEMC) WILL PROVIDE ELECTRIC SERVICE TO THE SUBJECT PROPERTY ACCORDING TO THE NORMAL OPERATING PRACTICES OF MTEMC AS DEFINED IN THE RULES AND REGULATIONS, BY-LAWS, POLICY BULLETINS AND OPERATIONAL BULLETINS OF MTEMC, AND IN ACCORDANCE WITH THE PLAT APPROVAL CHECKLIST, TREE PLANTING GUIDELINES AND OTHER REGULATIONS CONTAINED IN THE MTEMC WEBSITE AT www.mtemc.com (COLLECTIVELY THE "REQUIREMENTS"). NO ELECTRIC SERVICE WILL BE PROVIDED UNTIL MTEMC'S REQUIREMENTS HAVE BEEN MET AND APPROVED IN WRITING BY AN AUTHORIZED REPRESENTATIVE OF MTEMC. ANY APPROVAL IS, AT ALL TIMES, CONTINGENT UPON COMPLIANCE WITH MTEMC'S REQUIREMENTS.

DATE: _____, 2015
MIDDLE TENNESSEE ELECTRIC MEMBERSHIP CORPORATION

STATE COUNTY MAP



LESSEE



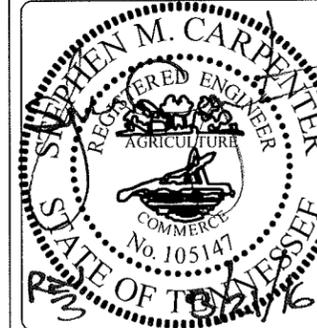
1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

A&E PROJECT #:	20130967443
DRAWN BY:	CAD
CHECKED BY:	CTD

REVISIONS

NO.	DATE	DESCRIPTION
Δ	03/21/16	ZONING REQ. REVISIONS
Δ	02/18/16	ZONING UPDATES
Δ	12/17/15	ADDITIONAL CARRIER ADDED
Δ	10/06/15	CONSTRUCTION ISSUE
Δ	08/27/15	PRELIMINARY REVIEW



PROJECT No:	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
TITLE SHEET

DRAWING NO.	REVISION:
T1	3

NOTES:

1. THIS DRAWING IS BASED ON A SITE SURVEY BY THE LAND CONSULTANTS, LLC., DATED 10/04/2015. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE PROPOSED USE DOES NOT REQUIRE FULL OR PART TIME EMPLOYEES AT THE SITE.
3. FOR GENERAL SITE WORK NOTES, SEE SHEET GN1.
4. FOR ELECTRICAL SYMBOLS, SEE SHEETS E1 & E2.
5. ALL NORTH ARROWS ON SITE PLANS ARE TRUE NORTH, UNLESS OTHERWISE SPECIFIED.

REFERENCE NOTES:

- 5 - TOWER ELEVATION. SEE DETAIL SHEET C6.
- 20 - SINGLE "CATTLE" GATE DETAIL. SEE DETAIL SHEET C7.

FLOOD NOTE:

BY GRAPHIC PLOTTING ONLY, THE PARENT PARCEL AND LESSEES LAND SPACE AND ACCESS & UTILITY R/W, APPEAR TO LIE WITHIN ZONE "X" PER F.E.M.A FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. #47149C0117J DATED OCTOBER 16, 2008

ZONE "X": AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.  02/16/16

NOW OR FORMERLY
BERNARDO J. GLANNETTI
PARCEL #: 056P A 04600
DEED BOOK: 1025, PAGE: 2638

PARENT PARCEL
COMER D. & MARTHA A. FRALEY
PARCEL#: 056 06900
DEED BOOK: 238, PAGE: 675
DEED BOOK: 618, PAGE: 95

 5 NEW LESSEE
C6 150' MONOPOLE
 03/21/16

±1047'-0"
FROM TOWER TO WEST
PROPERTY LINE
 02/16/16

±392'-0"
FROM TOWER TO SOUTH
PROPERTY LINE
 02/16/16

NEW LESSEE 75' x 75'
FENCED COMPOUND

NEW LESSEE
100' x 100'
LEASE AREA

NEW LESSEE 155'
TOWER SETBACK
RADIUS

EXISTING
FENCE (TYP.)

NEW LESSEE 40'(W)
UTILITY EASEMENT

NEW LESSEE 40'(W)
ACCESS & UTILITY
EASEMENT

NEW LESSEE 12'(W)
GRAVEL DRIVE

NEW LESSEE
16'(W) CATTLE
GATE  20
C7

NEW LESSEE
11'-6" x 29'-5.5"
EQUIPMENT SHELTER

NEW LESSEE
11'-6" x 29'-5.5"
EQUIPMENT SHELTER

EXISTING FENCE TO
BE REMOVED

EXISTING TREE
LINE (TYP.)

EXISTING ≥12"
TREE (TYP.)

EXISTING PROPERTY
LINE (TYP.)

EXISTING RIGHT
OF WAY

EDGE OF PAVEMENT

REDFIELD DRIVE

PROPOSED 18"Ø
CMP - 15 L.F.

EXISTING OVERHEAD
UTILITIES (TYP.)

EXISTING UTILITY
POLE (TYP.)

EXISTING FIRE
HYDRANT
 02/16/16

LESSEE

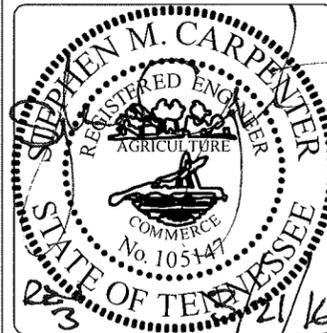


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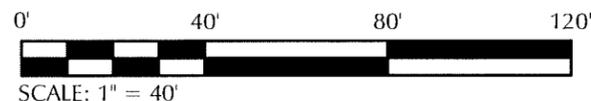
PROJECT No.	20130967443
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SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

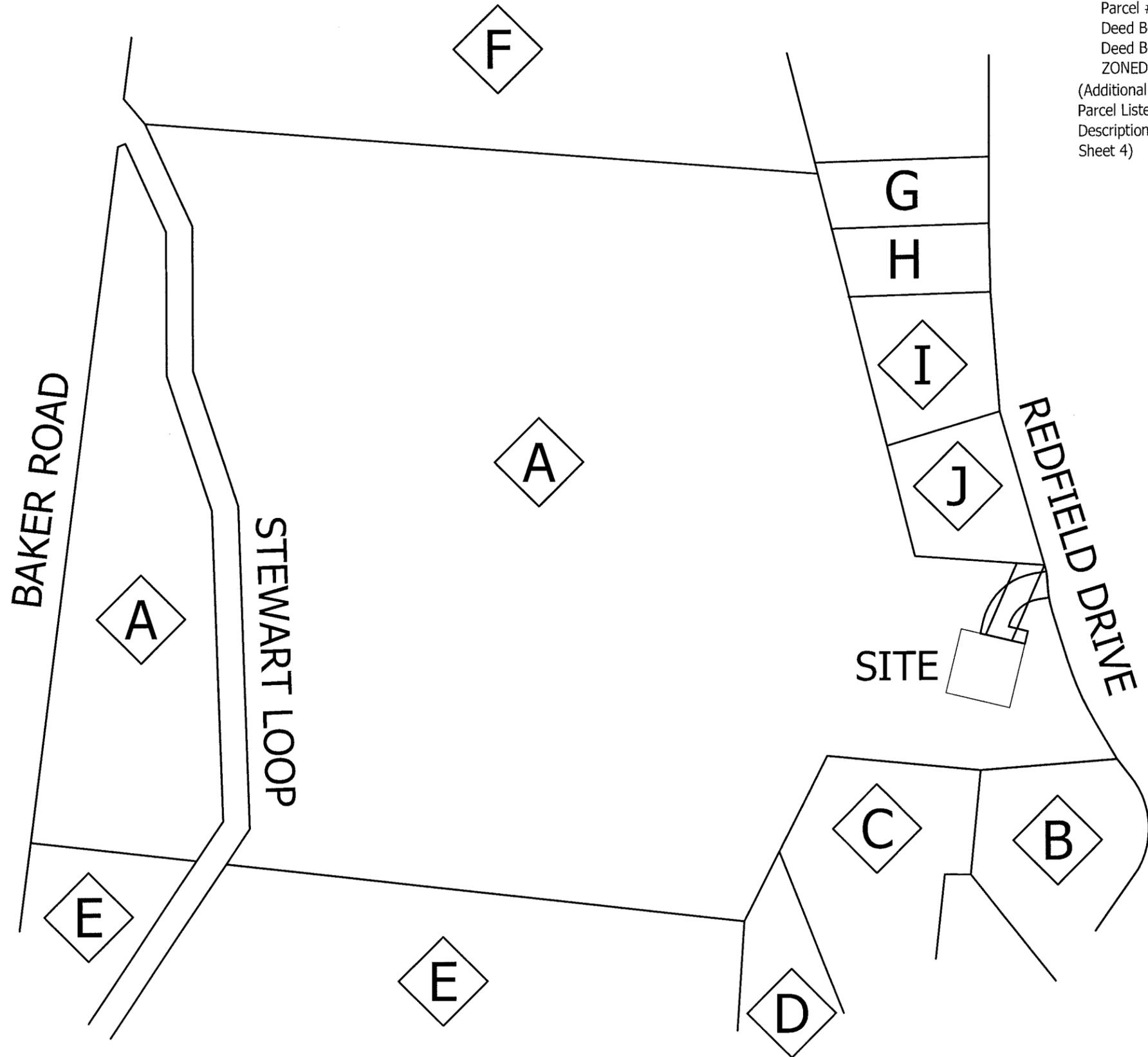
SHEET TITLE:
**OVERALL SITE
LAYOUT PLAN**

DRAWING NO.	REVISION:
C1	3

RUTHERFORD COUNTY BOARD OF APPEALS GRANTED SPECIAL EXCEPTION APPROVAL FOR THE TOWER ON FEBRUARY 10, 2016. THIS SITE PLAN WILL BE ON THE PLANNING COMMISSION'S MARCH 28, 2016 AGENDA.

 03/21/16





PARENT PARCEL
 A. COMER D. FRALEY & MARTHA A. FRALEY
 Parcel #: 056 06900
 Deed Book 238 Page 675
 Deed Book 618 Page 95
 ZONED: RM
 (Additional Deeds of Parent Parcel Listed in "Legal Description of Parent Parcel, Sheet 4)

- ADJOINERS:
- B. EVETTS JACQUELYN MICHELLE
 Parcel #: 071A A 02100
 Deed Book 664 Page 503
 Plat Book 12 Page 183
 ZONED: RM
 - C. WISE GARY W & LINDA S
 Parcel #: 071A A 01900
 Deed Book 669 Page 2452
 Plat Book 12 Page 157
 ZONED: RM
 - D. HUDGINS CHARLES T
 Parcel #: 071A A 01800
 Deed Book 276 Page 1088
 Plat Book 12 Page 157
 ZONED: RM
 - E. MANNING EVELYN S
 Parcel #: 071 00200
 Deed Book N/A Page N/A
 ZONED: RM
 - F. BARLOW LOUIE
 Parcel #: 056 05202
 Deed Book 659 Page 2984
 ZONED: RM
 - G. TRUEX EINAR JOHN
 Parcel #: 056P A 04900
 Deed Book 188 Page 1481
 ZONED: RM
 - H. HAYES SAMUEL D & MARSHA E
 Parcel #: 056P A 04800
 Deed Book 1213 Page 3754
 Plat Book 12 Page 120
 ZONED: RM
 - I. HALL SHERRY E
 Parcel #: 056P A 04700
 Deed Book 408 Page 203
 Plat Book 12 Page 120
 ZONED: RM
 - J. GLANNETTI BERNARDO J
 Parcel #: 056P A 04600
 Deed Book 1025 Page 2638
 ZONED: RM

LESSEE



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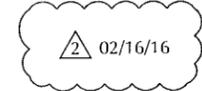
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PROJECT No.	20130967443
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SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
OVERALL ZONING PLAN

DRAWING NO.	REVISION:
C1A	2



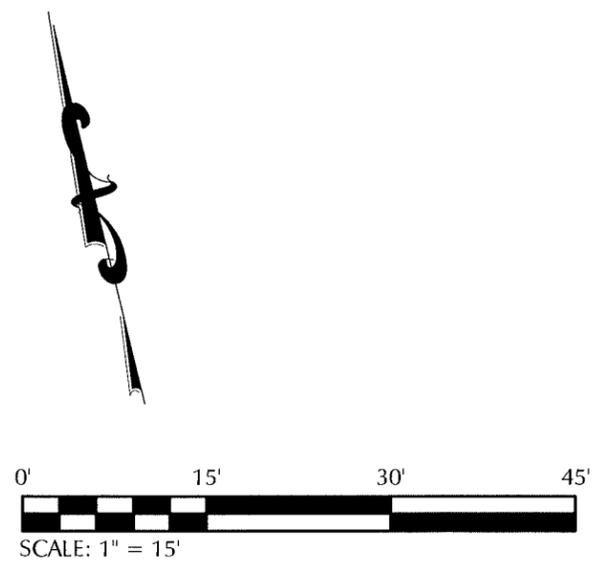
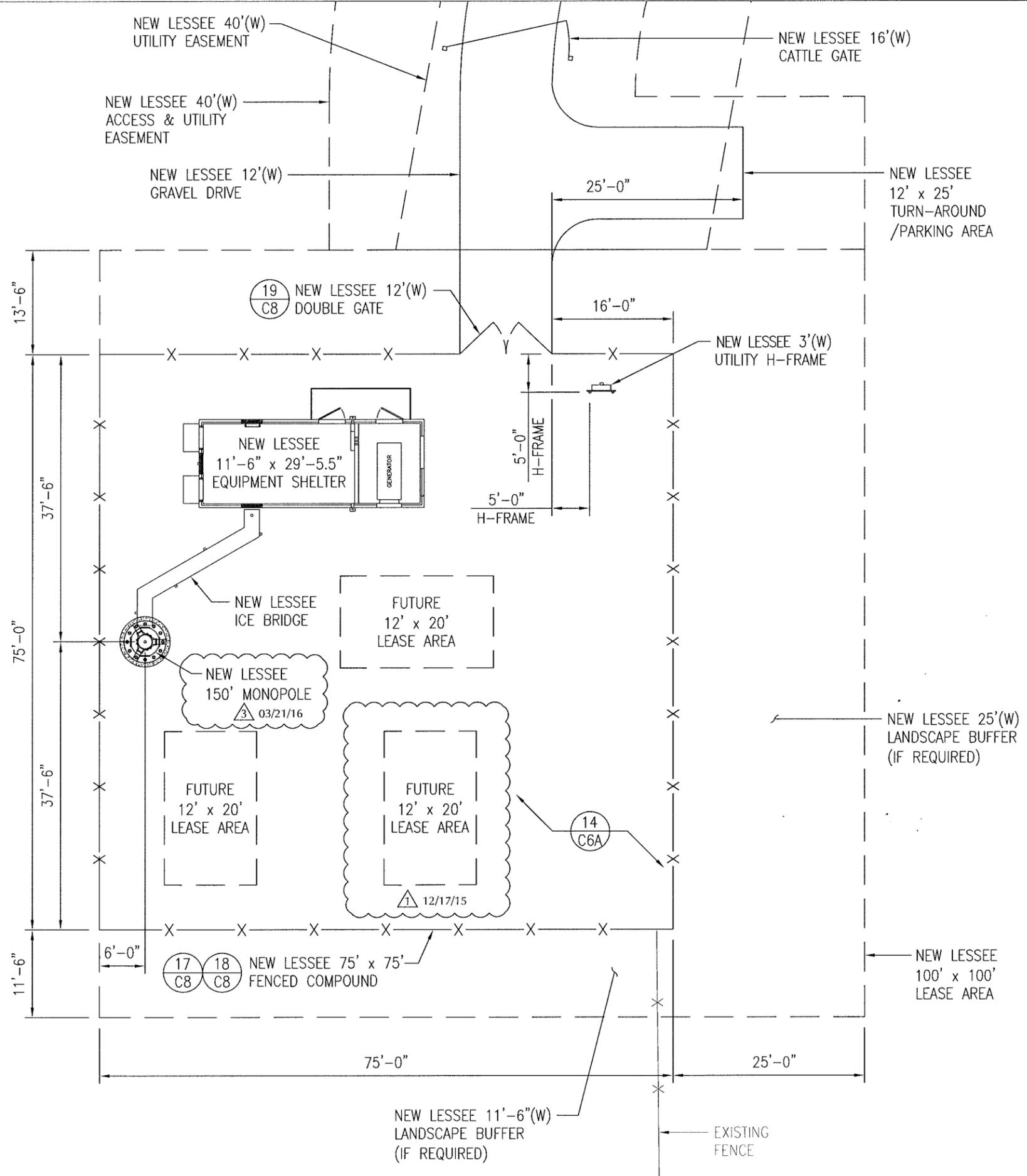
REFERENCE NOTES:

- 14 - COMPOUND SURFACING. SEE DETAIL SHEET C6A.
- 17 - WOVEN WIRE FENCE. SEE DETAIL SHEET C8.
- 18 - WOVEN WIRE CORNER, GATE, END, OR POST. SEE DETAIL SHEET C8.
- 19 - WOVEN WIRE DOUBLE GATE. SEE DETAIL SHEET C8.

SHELTER NOTES:

- 1. WIDTH OF SHELTER ROOF = 11'-10" (142").
- 2. WIDTH OF SHELTER AT WALL (EXTERIOR TO EXTERIOR) = 11'-6" (138").
- 3. ANY HOLES IN THE EXTERIOR WALLS NEED TO BE CLOSED AND SEALED WITH SILICON, FILLING FROM THE INSIDE WALL ENSURING THE HOLE IS COMPLETELY CLOSED.
- 4. HEIGHT OF SHELTER = 9'-0" (108")

02/16/16



LESSEE

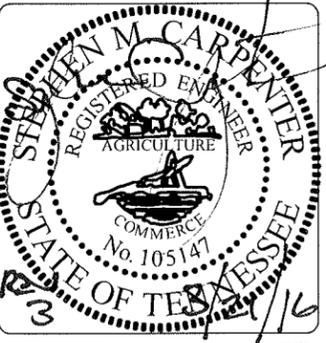


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SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND
SHEET TITLE:	SITE LAYOUT PLAN
DRAWING NO.	C2
REVISION:	3

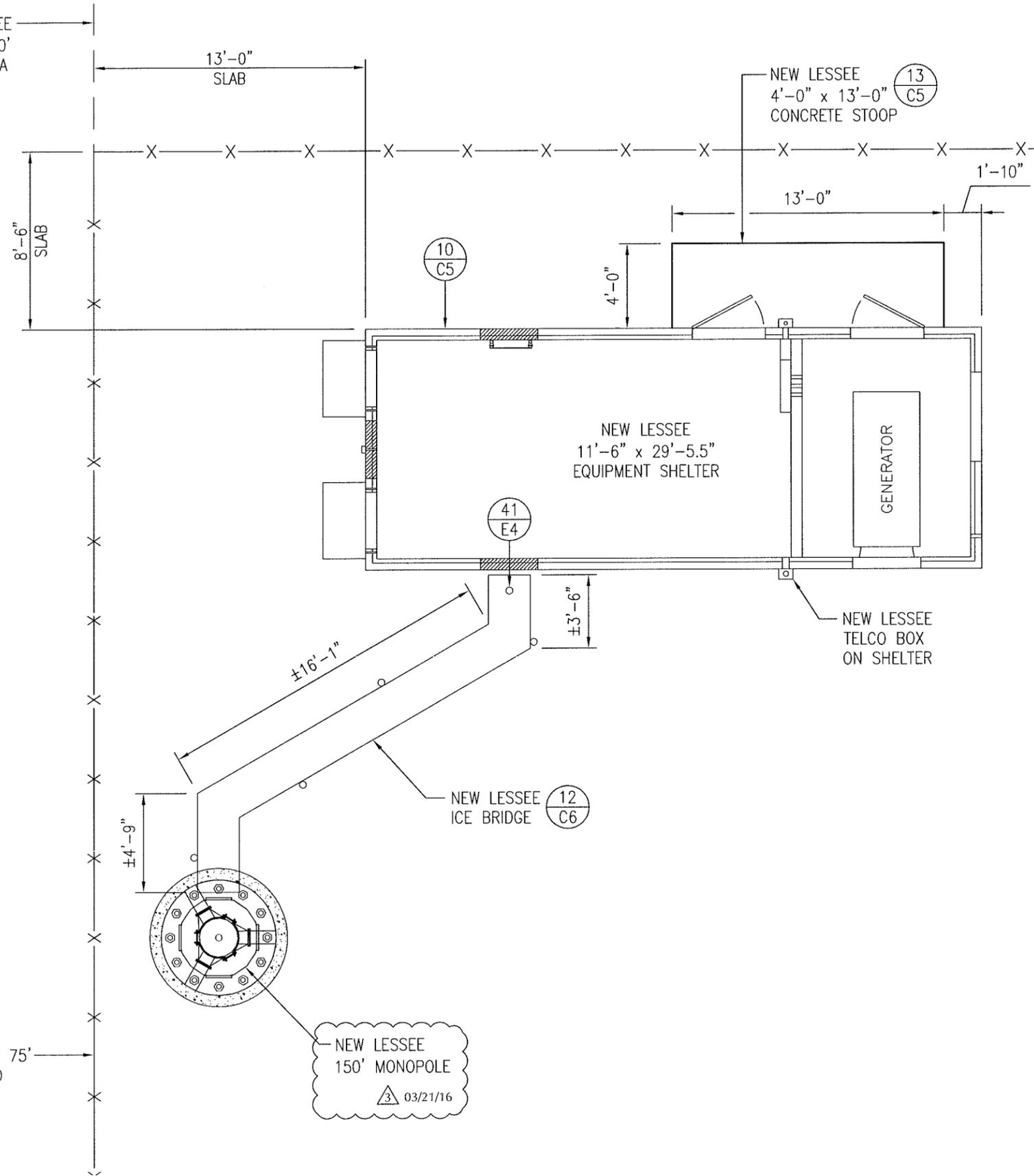
REFERENCE NOTES:

- 10 - SHELTER SLAB FOUNDATION. SEE DETAIL SHEET C5.
- 12 - ICE BRIDGE AT MONOPOLE. SEE DETAIL SHEET C6.
- 13 - STOOP DETAIL. SEE DETAIL SHEET C5.
- 41 - BAR NONE SOLUTION KIT. SEE DETAIL SHEET E4.

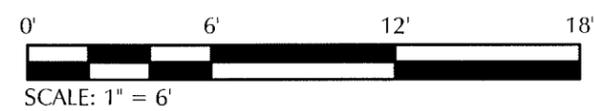
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NEW LESSEE
100' x 100'
LEASE AREA



GC TO VERIFY POWER & TELCO
ENTRY POINTS ON SHELTER



LESSEE

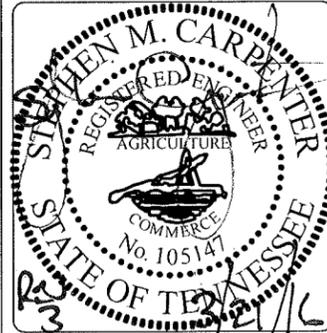


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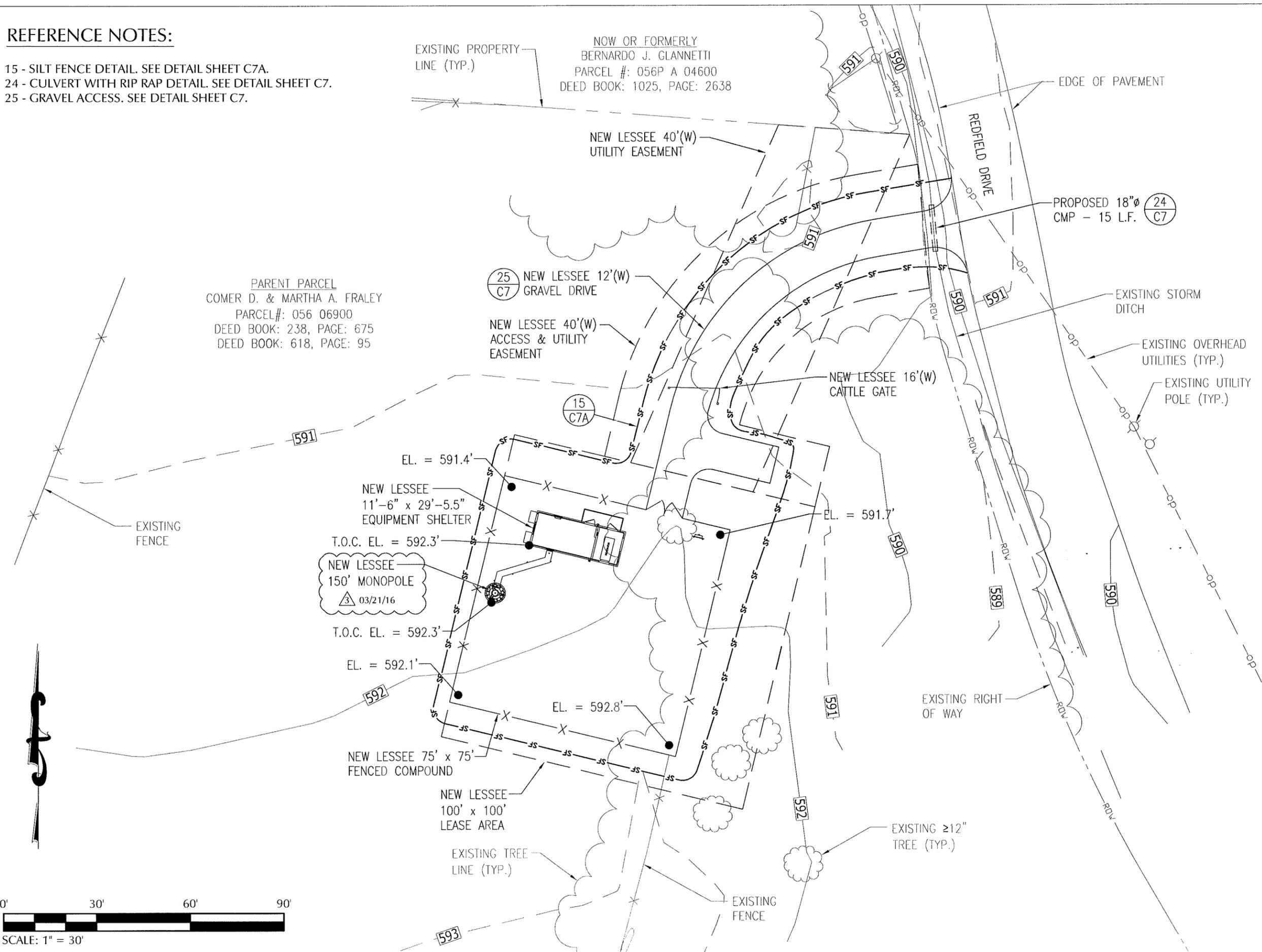
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DESIGN TYPE:	RAWLAND

SHEET TITLE:
EQUIPMENT LAYOUT PLAN

DRAWING NO.	REVISION:
C3	3

REFERENCE NOTES:

- 15 - SILT FENCE DETAIL. SEE DETAIL SHEET C7A.
- 24 - CULVERT WITH RIP RAP DETAIL. SEE DETAIL SHEET C7.
- 25 - GRAVEL ACCESS. SEE DETAIL SHEET C7.



PARENT PARCEL
COMER D. & MARTHA A. FRALEY
PARCEL#: 056 06900
DEED BOOK: 238, PAGE: 675
DEED BOOK: 618, PAGE: 95

NOW OR FORMERLY
BERNARDO J. GLANNETTI
PARCEL #: 056P A 04600
DEED BOOK: 1025, PAGE: 2638

LESSEE

TeleCAD Wireless
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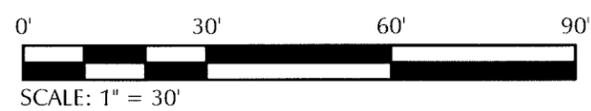
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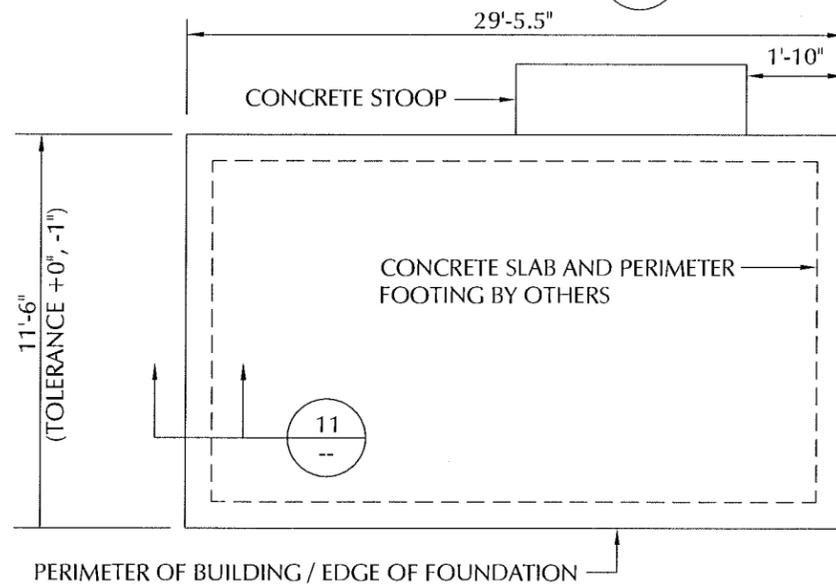
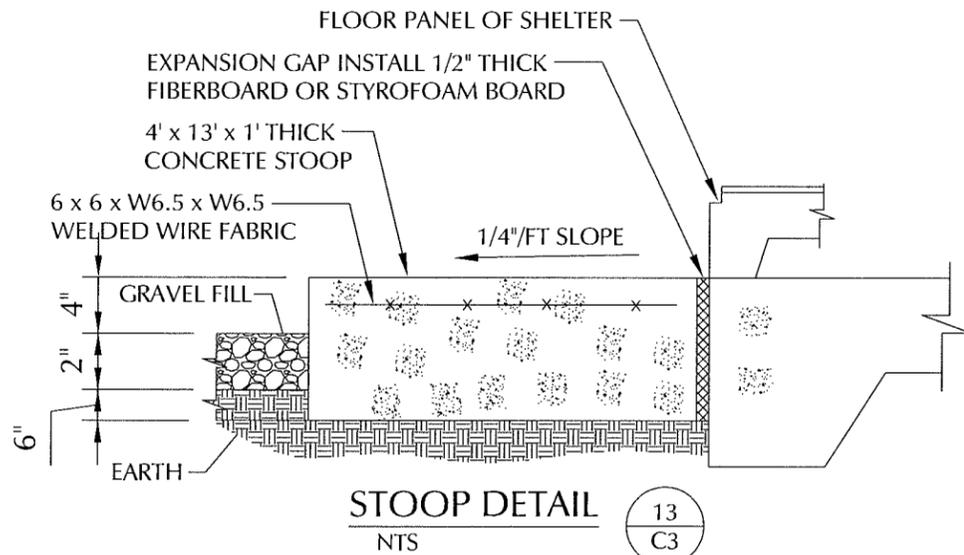
SHEET TITLE:
SITE GRADING PLAN

DRAWING NO.	REVISION:
C4	3

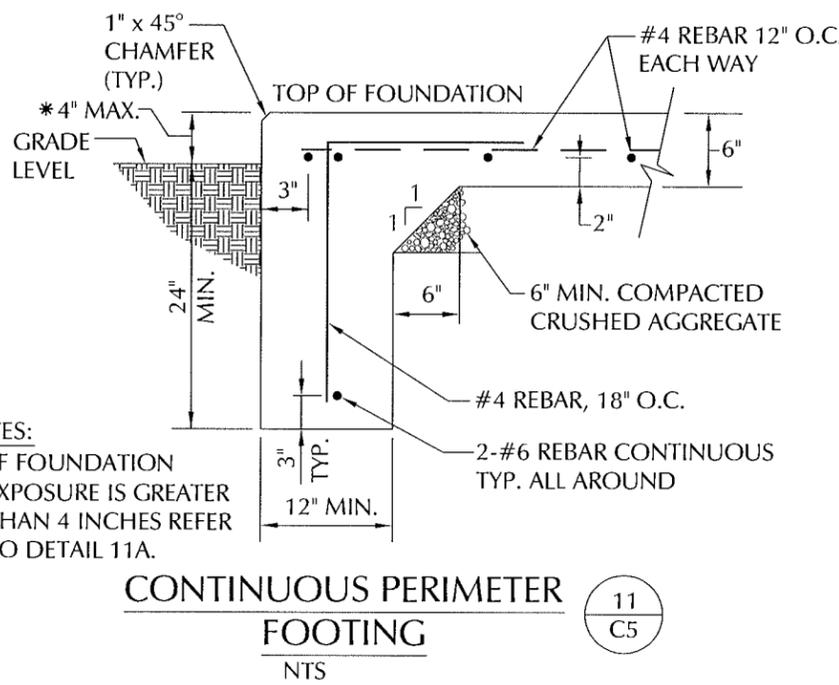
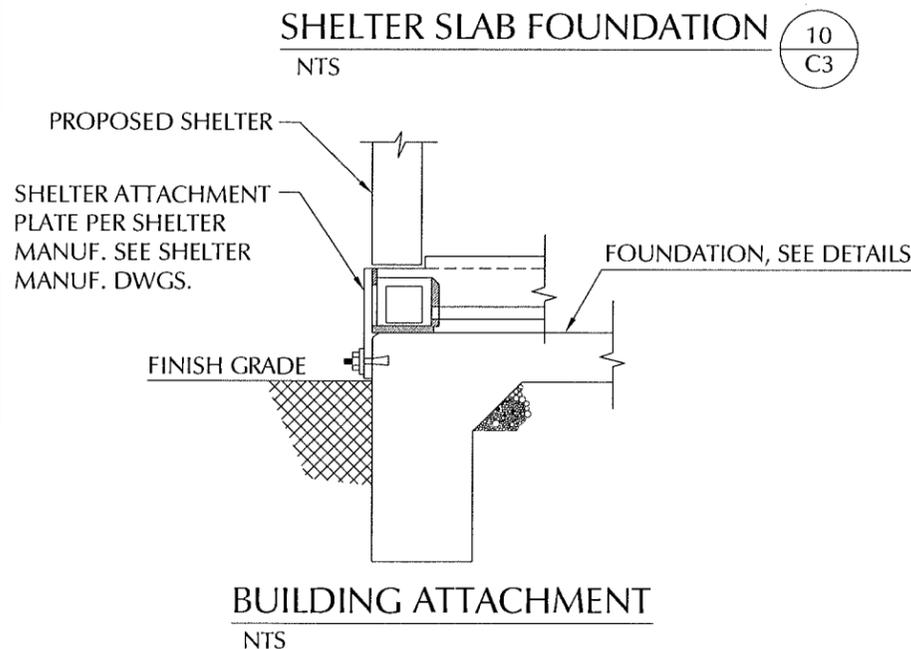


FOUNDATION GENERAL NOTES

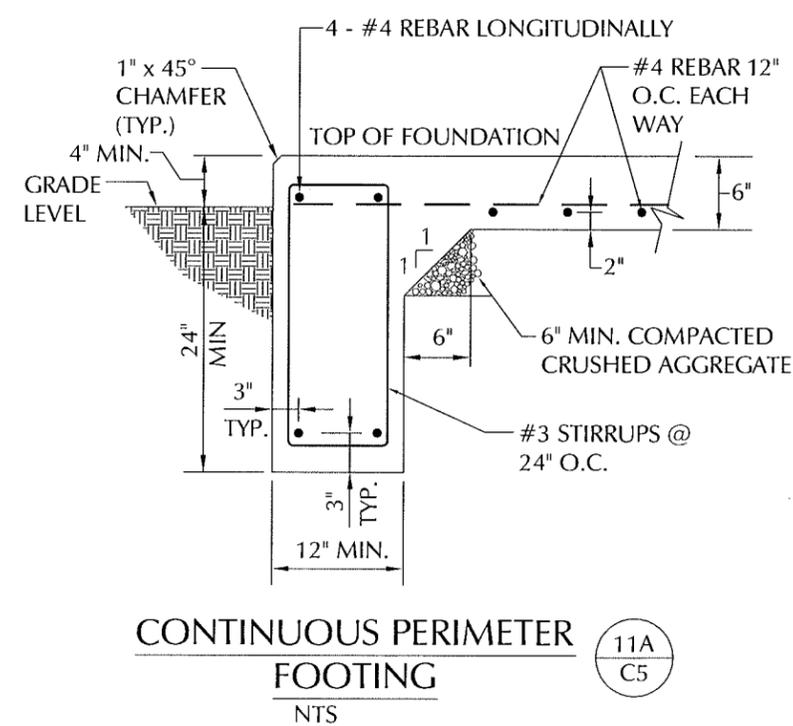
1. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS, AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION, AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
2. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
3. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS.
4. MAXIMUM SIZE OF CONCRETE AGGREGATE SHALL NOT EXCEED 1 INCH; SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED; OR ONE-THIRD CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING.
5. REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.
6. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
7. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED.
8. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
9. ALL HORIZONTAL BARS IN WALLS & BEAM EDGES SHALL BE BENT AT CORNERS IN SUCH A WAY THAT CONTINUITY IS PROVIDED THROUGH THE JOINT. SEPARATE CORNER BARS OF THE SAME SIZE AND SPACING AS THE HORIZONTAL REINFORCING MAY BE SUBSTITUTED FOR THE BENT PORTION OF THE CONTINUOUS BARS.
10. FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 100 POUNDS PER CUBIC FOOT.
11. FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
12. LOOSE MATERIAL SHALL BE REMOVED FROM THE BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT.
13. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL, AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF FOUNDATION.
14. CONCRETE SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
15. FOUNDATION DESIGN ASSUMES CONTINUOUS CONCRETE PLACEMENT WITHOUT CONSTRUCTION JOINTS.
16. WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS. (NOT ROLLED).
17. TEST CYLINDERS SHALL BE MOLDED AND LABORATORY CURED IN ACCORDANCE WITH ASTM C31. THREE CYLINDERS SHALL BE TAKEN FOR EACH DAY'S CONCRETE PLACEMENT. CYLINDERS SHALL BE TESTED IN ACCORDANCE WITH ASTM C39.
18. TOPS OF CONCRETE FOUNDATION MUST BE WITHIN 0.02" OF ELEVATION SPECIFIED BY THE CUSTOMER.



GC TO VERIFY SHELTER FOR THIS SITE AND IT'S REQUIRED FOUNDATION DIMENSIONS PRIOR TO STARTING CONSTRUCTION.



NOTES:
* IF FOUNDATION EXPOSURE IS GREATER THAN 4 INCHES REFER TO DETAIL 11A.



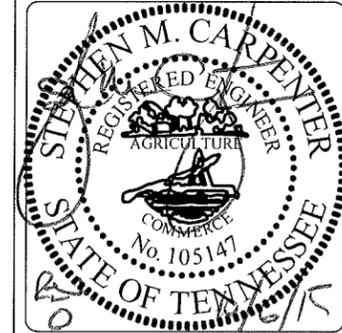
LESSEE

TeleCAD Wireless
1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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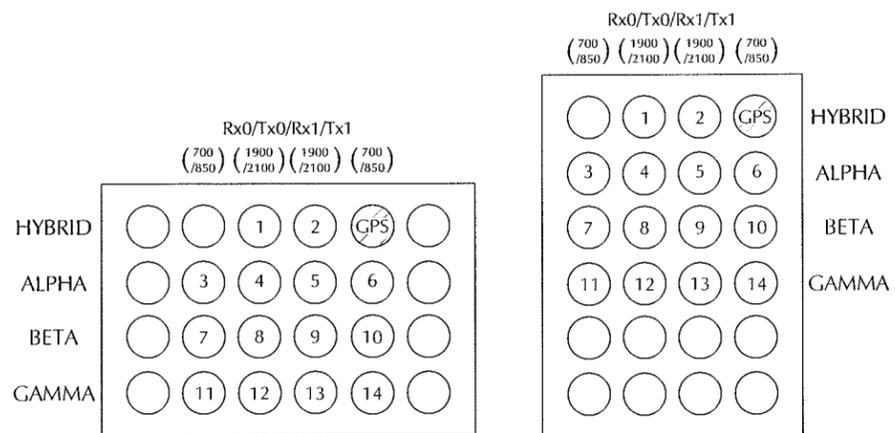
A&E PROJECT #:	20130967443
DRAWN BY:	CAD
CHECKED BY:	CTD

REVISIONS		
NO.	DATE	DESCRIPTION
10/06/15		CONSTRUCTION ISSUE
08/27/15		PRELIMINARY REVIEW

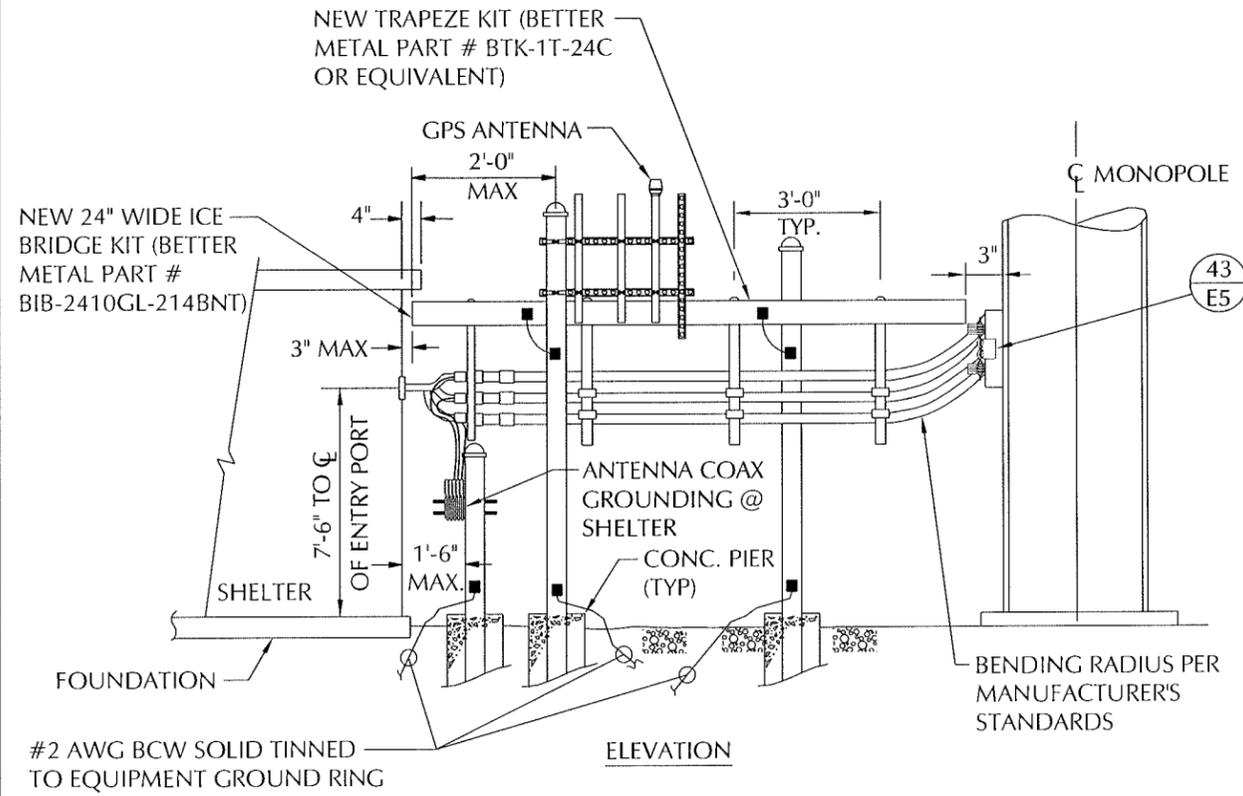
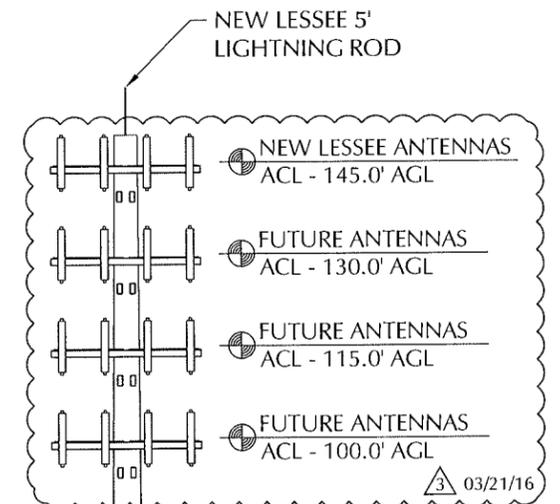
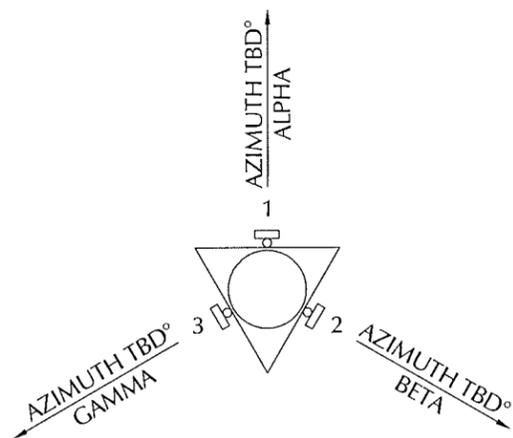


PROJECT No:	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND
SHEET TITLE:	SITE DETAILS

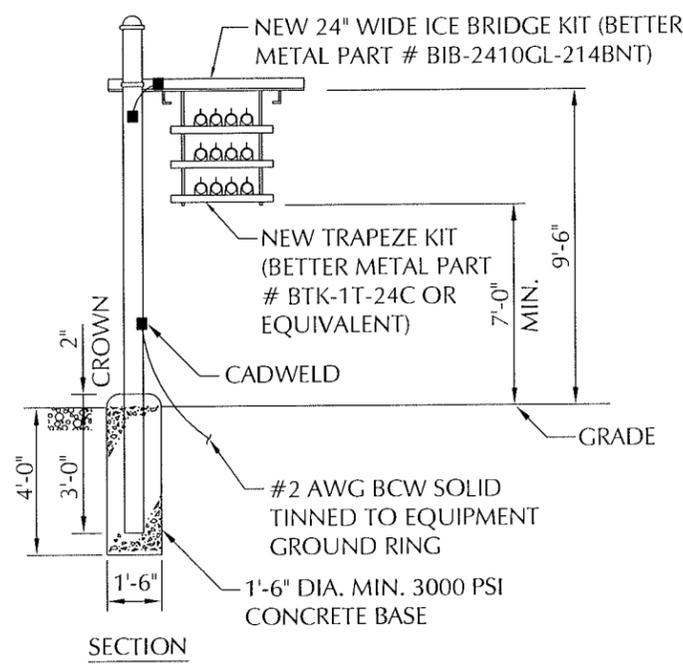
DRAWING NO.	REVISION:
C5	0



DUPLEX MOD CELL HATCH PLATE LAYOUTS
VIEW FROM INSIDE SHELTER



ICE BRIDGE AT MONOPOLE
NTS



TOWER ELEVATION
NTS

NEW LESSEE 150'
MONOPOLE
OVERALL HEIGHT: 155'
03/21/16

LESSEE

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REVISIONS		
NO.	DATE	DESCRIPTION
△	03/21/16	ZONING REQ. REVISIONS
△	02/18/16	ZONING UPDATES
△	12/17/15	ADDITIONAL CARRIER ADDED
△	10/06/15	CONSTRUCTION ISSUE
△	08/27/15	PRELIMINARY REVIEW



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DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE DETAILS

DRAWING NO.	REVISION:
C6	3

ALPHA - RED SECTOR ONE:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

DELTA - PURPLE SECTOR FOUR:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

BETA - WHITE SECTOR TWO:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

EPSILON - GRAY SECTOR FIVE:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

GAMMA - BLUE SECTOR THREE:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

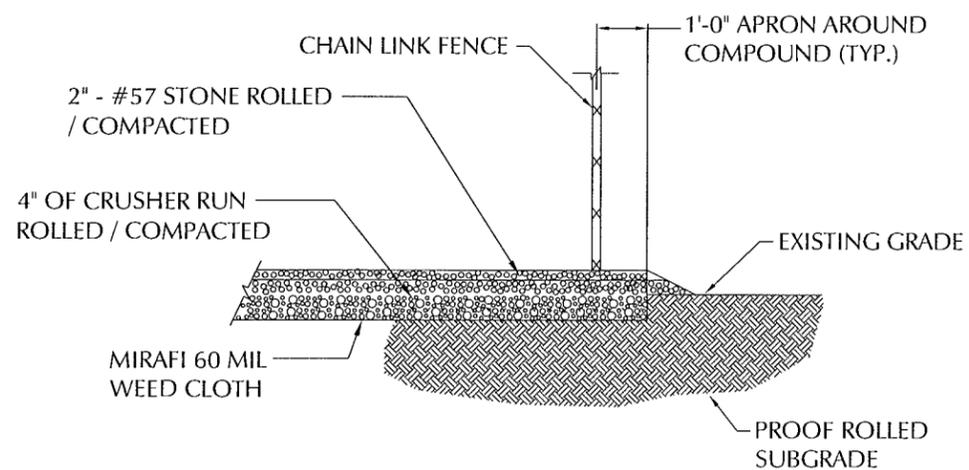
ZETA - PINK SECTOR SIX:	700MHz	700MHz	850MHz	850MHz	1900MHz	1900MHz	2100MHz	2100MHz
	YELLOW							
	YELLOW	YELLOW						
			GREEN					
			GREEN	GREEN				
					BROWN			
					BROWN	BROWN		
							GOLD	GOLD

NOTE:

1. VERIFY AZIMUTH BEFORE INSTALLATION WITH RF WORKSHEET.
2. ALL COAX SHALL BE LABELED AT TOP OF TOWER AND INSIDE SHELTER WITH COLOR CODED TAPE.
3. BRASS TAGS REQUIRED ON COAX AT TOP & BOTTOM OF RUN.
4. REFER TO STRUCTURAL ANALYSIS OF TOWER FOR COAX ROUTING.

ANTENNA COAX COLOR CODE & LOCATIONS

NTS



COMPOUND SURFACING

NTS

14
C2

LESSEE

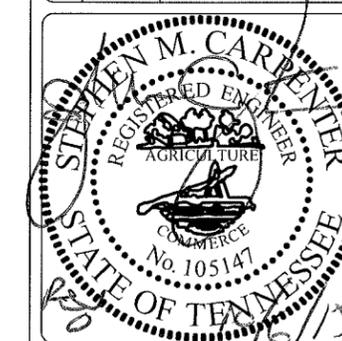


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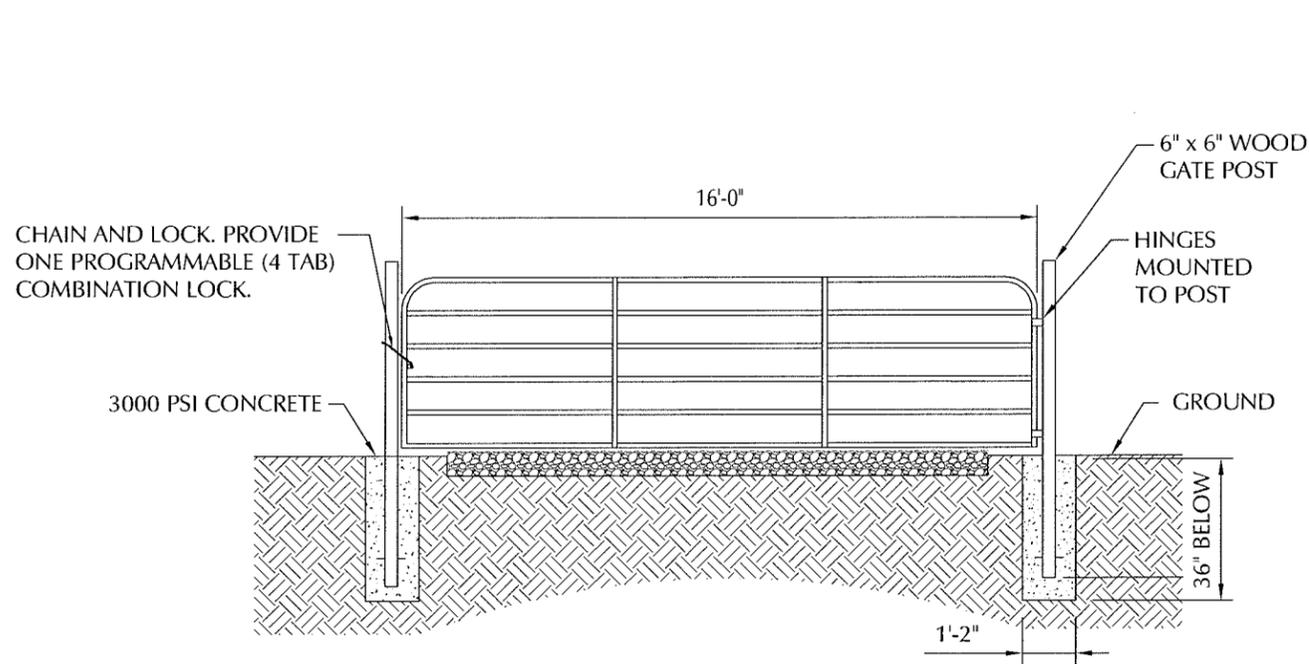
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DESIGN TYPE:	RAWLAND

SHEET TITLE:	SITE DETAILS
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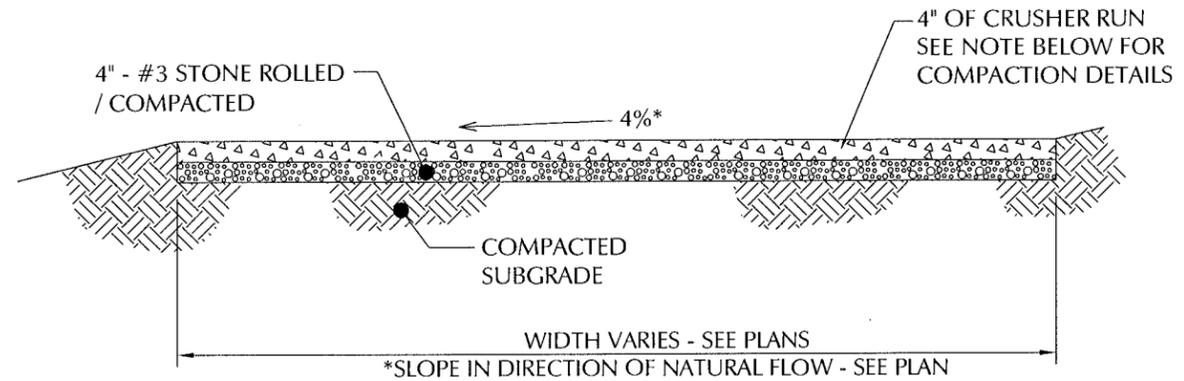
DRAWING NO.	REVISION:
C6A	0



SINGLE "CATTLE" GATE DETAIL

NTS

20
C1



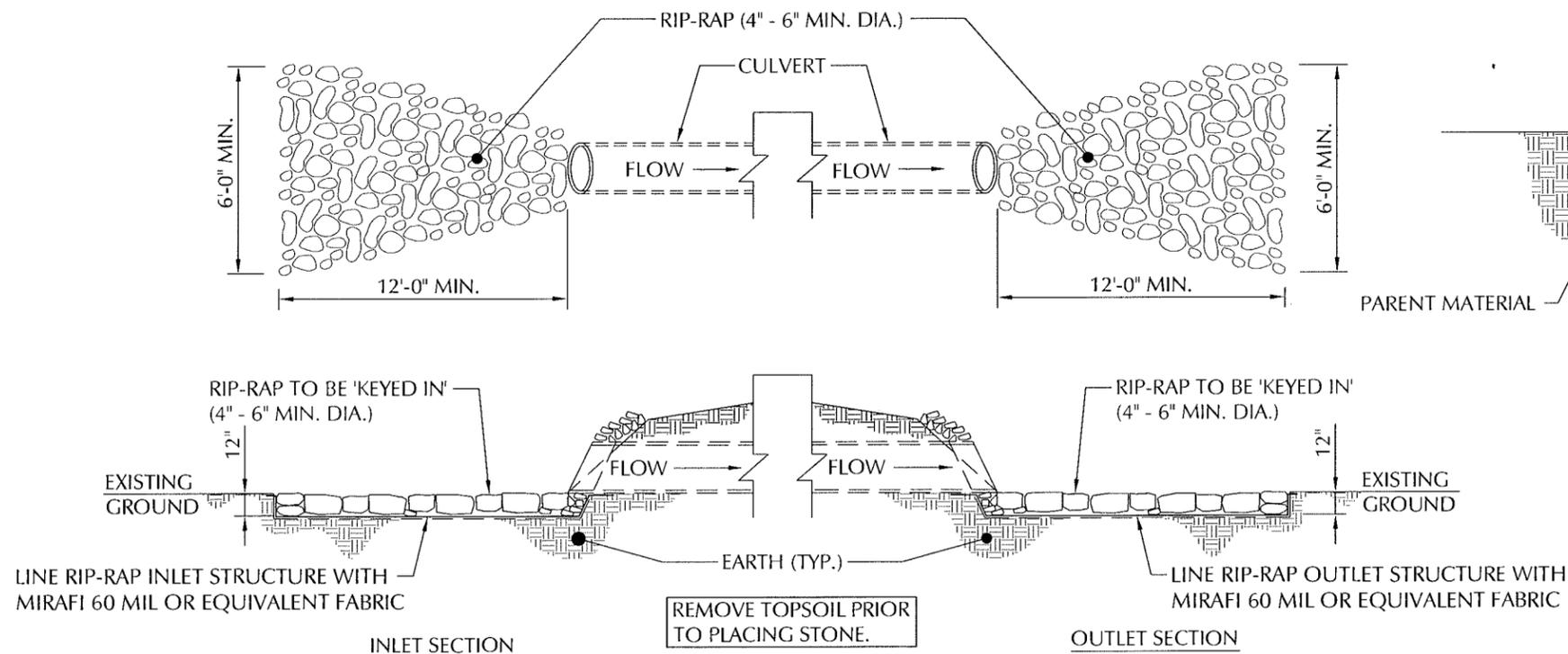
COMPACTION NOTE:

ALL AREAS TO RECEIVE FILL SHALL FIRST BE PROOF ROLLED UNDER THE SUPERVISION OF THE ENGINEER OR TESTING LAB PERSONNEL. ANY AREAS WHICH EXHIBIT "PUMPING" SHALL BE UNDERCUT (OR OTHERWISE STABILIZED) TO A FIRM SOIL BEFORE PLACING FILL. ALSO, ALL FINAL SUBGRADES, WHETHER IN CUT OR FILL, SHALL BE PROOF ROLLED PRIOR TO CONSTRUCTING SLABS OR PAVEMENTS. CONTACT ENGINEER FOR DIRECTION IN SITUATIONS WHERE SOIL COMPACTION OR BEARING CAPACITY MAY BE INADEQUATE.

GRAVEL ACCESS ROAD

NTS

25
C4



CULVERT WITH RIP RAP DETAIL

NTS

24
C4

LESSEE

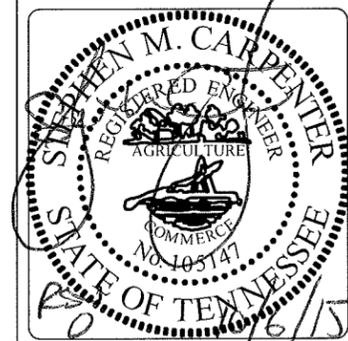


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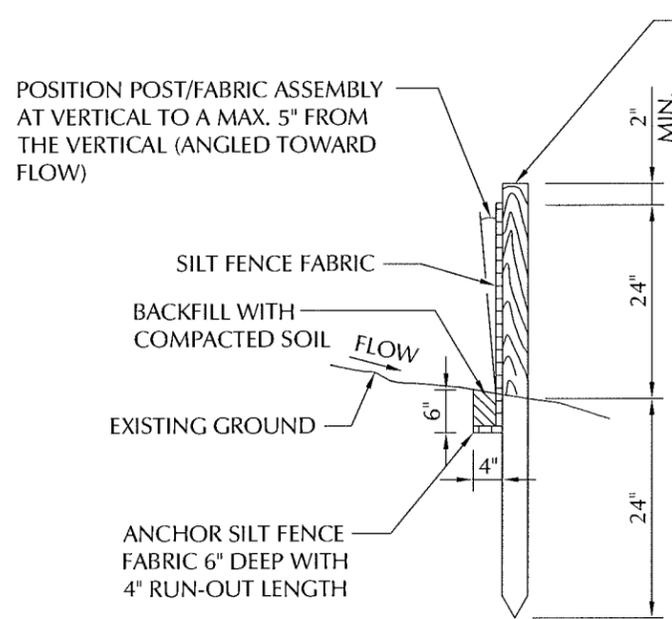
SHEET TITLE:	SITE DETAILS
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DRAWING NO.	REVISION:
C7	0

EROSION CONTROL NOTES:

- CLEARING AND GRUBBING SHALL NOT BE INITIATED MORE THAN 10 CALENDAR DAYS PRIOR TO GRADING OR EARTH MOVING ACTIVITIES UNLESS THE AREA IS TEMPORARILY SEEDED.
- ALL DISTURBED AREAS SHALL BE PROPERLY STABILIZED AS SOON AS PRACTICABLE.
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED CONCURRENT WITH CLEARING OPERATIONS. AND SHALL BE FUNCTIONAL PRIOR TO ANY EARTH MOVING OPERATIONS.
- CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE THE EXPOSURE TIME OF GRADED SOIL AREAS AND SHALL BE PHASED FOR PROJECTS THAT HAVE OVER 50 ACRES OF SOIL DISTURBANCE. HOWEVER, PRIORITY SHALL BE GIVEN TO FINISHING OPERATIONS AND PERMANENT EROSION CONTROL MEASURES OVER TEMPORARY EROSION CONTROL MEASURES ON ALL PROJECTS.
- SOIL MATERIALS MUST BE PREVENTED FROM ENTERING WATERS OF THE STATE / U.S. EROSION AND SEDIMENTATION CONTROL MEASURES TO PROTECT WATER QUALITY MUST BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD. SILT FENCE MUST BE INSTALLED ALONG THE BASE OF ALL FILLS AND CUTS. ON THE DOWNHILL SIDE OF STOCKPILED SOIL. AND ALONG STREAM BANKS IN CLEARED AREAS TO PREVENT SEDIMENT MIGRATION IN TO STREAMS. THEY MUST BE INSTALLED ON THE CONTOUR, ENTRENCHED AND STAKED, AND EXTEND THE WIDTH OF THE AREA TO BE CLEARED.
- CHECK DAMS SHALL BE UTILIZED WHERE RUNOFF IS CONCENTRATED. CLEAN ROCK, BRUSH, SANDBAG, OR CHECK DAMS SHALL BE PROPERLY CONSTRUCTED TO DETAIN RUNOFF AND TRAP SEDIMENT. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS.
- TEMPORARY OR PERMANENT SOIL STABILIZATION SHALL BE ACCOMPLISHED WITHIN 15 DAYS AFTER FINAL GRADING OR OTHER EARTHWORK. PERMANENT SOIL STABILIZATION SHALL REPLACE TEMPORARY STABILIZATION AS SOON AS PRACTICABLE.
- THE CONTRACTOR SHALL INSTALL A RAIN GAUGE ON-SITE AND MAINTAIN IT IN GOOD WORKING CONDITION. THE CONTRACTOR SHALL RECORD DAILY PRECIPITATION ON THE PROJECT AND PROVIDE THIS INFORMATION TO THE ENGINEER ON A MONTHLY BASIS.
- INSPECTIONS OF EROSION AND SEDIMENT CONTROL MEASURES SHALL BE DONE BEFORE ANTICIPATED STORM EVENTS (OR SERIES OF STORM EVENTS SUCH AS INTERMITTENT SHOWERS OVER ONE OR MORE DAYS) AND WITHIN 24 HOURS AFTER THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER, AND AT LEAST TWICE PER WEEK, 72 HOURS APART. THE RECORD OF INSPECTIONS MUST BE RETAINED ON SITE DURING THE DURATION OF THE PROJECT.
- OUTFALL POINTS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO SURROUNDING WATERS. LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE ROADWAY SEDIMENT TRACKING.
- UPON CONCLUSION OF THE INSPECTIONS, EROSION AND SEDIMENT CONTROL MEASURE FOUND TO BE INEFFECTIVE SHALL BE REPAIRED, REPLACED, OR MODIFIED BEFORE THE NEXT RAIN EVENT, IF POSSIBLE, BUT IN NO CASE MORE THAN SEVEN DAYS AFTER THE CONDITION IS IDENTIFIED.
- THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN ON-SITE (OR AT A NEARBY OFFICE).

- THE OPERATION OF EQUIPMENT IN WATERS OF THE STATE / U.S., INCLUDING WETLANDS, SHALL BE ONLY AS SHOWN ON THE PROJECT PLANS AND/OR AS SO SPECIFIED IN THE ARAP AND/OR SECTION 404 PERMIT (S). ANY ADDITIONAL PERMITS REQUIRED BY THE CONTRACTOR'S METHOD OF OPERATION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN.
- EXCAVATION AND FILL ACTIVITIES SHALL BE SEPARATED FROM FLOWING WATERS. ALL SURFACE WATER FLOWING TOWARD THE EXCAVATION OR FILL WORK SHALL BE DIVERTED THROUGH UTILIZATION OF COFFERDAMS, BERMS, OR TEMPORARY CHANNELS. TEMPORARY DIVERSION CHANNELS MUST BE PROTECTED BY NON-ERODIBLE MATERIAL AND LINED TO THE EXPECTED HIGH WATER LEVEL. COFFERDAMS MUST BE CONSTRUCTED OF SANDBAGS, CLEAN ROCK, STEEL SHEETING OR OTHER NON-ERODIBLE MATERIAL. CLEAN ROCK IS ROCK OF VARIOUS TYPE AND SIZE, DEPENDING UPON APPLICATION, THAT CONTAINS NO FINES, SOILS, OR OTHER WASTES OR CONTAMINANTS.
- THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN A PROACTIVE METHOD TO PREVENT LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS FROM ENTERING WATERS OF STATE / U.S.
- THE CONTRACTOR SHALL TAKE APPROPRIATE STEPS TO ENSURE THAT PETROLEUM PRODUCTS OR OTHER CHEMICAL POLLUTANTS ARE PREVENTED FROM ENTERING WATERS STATE / U.S. ALL EQUIPMENT REFUELING, SERVICING, AND STAGING AREAS SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, RULES, REGULATIONS, AND ORDINANCES: INCLUDING THOSE OF THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA). APPROPRIATE CONTAINMENT MEASURE FOR THESE AREAS SHALL BE UTILIZED. ALL SPILLS MUST BE REPORTED TO THE APPROPRIATE AGENCY, AND MEASURE SHALL BE TAKES IMMEDIATELY TO PREVENT THE POLLUTION OF WATERS OF THE STATE/U.S., INCLUDING GROUNDWATER, SHOULD A SPILL OCCUR.
- BORROW AND WASTE DISPOSAL AREAS SHALL BE LOCATED IN NON-WETLAND AREAS AND ABOVE THE 100-YEAR, FEDERAL EMERGENCY MANAGEMENT AGENCY FLOODPLAIN. BORROW AND WASTE DISPOSAL AREAS SHALL NOT AFFECT ANY WATERS OF THE STATE / U.S. UNLESS THESE AREAS ARE SPECIFICALLY COVERED BY AN ARAP, 404, OR NPOES PERMIT, OBTAINED SOLELY BY THE CONTRACTOR.
- WETLAND AREAS SHALL NOT BE USED AS EQUIPMENT STORAGE, STAGING, OR TRANSPORTATION AREAS, UNLESS PROVIDED FOR IN THE PLANS.
- ANY DISAGREEMENT BETWEEN THE PROJECT PLANS, THE PROJECT AS CONSTRUCTED AND THE PERMIT OR PERMITS ISSUED FOR THE PROJECT, SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE ENGINEER SHALL DECIDE WHICH HAS PRECEDENCE AND WHETHER PERMIT OR PLANS REVISIONS ARE NEEDED. IN GENERAL, PERMIT CONDITIONS WILL PREVAIL.
- THE EROSION AND SEDIMENT CONTROL MEASURE AND/OR PLAN SHALL BE MODIFIED AS NECESSARY SO THAT THEY ARE EFFECTIVE AT ALL TIMES THROUGHOUT THE COURSE OF THE PROJECT.
- FOR THE INSTALLATION OF BURIED UTILITIES (PIPES AND CABLES), TRENCHES SHALL BE BACKFILLED DAILY AS CONSTRUCTION PROCEEDS. BACKFILLED TRENCHES SHALL BE SEEDED AND MULCHED OR SODDED DAILY IF POSSIBLE, BUT NO LATER THAN SEVEN (7) DAYS AFTER TRENCHING. ANY TEMPORARY SPOIL PILE OF EXCAVATED EARTH SHALL BE LOCATED WITHIN THE PROJECT EROSION CONTROL MEASURES ARE NOT BACKFILLED OVERNIGHT. APPROPRIATE EROSION CONTROL AND SAFETY MEASURE WILL BE INSTALLED UNTIL SUCH TIME AS THE TRENCH IS BACKFILLED.



SECTIONAL VIEW
SILT FENCE DETAIL
NTS

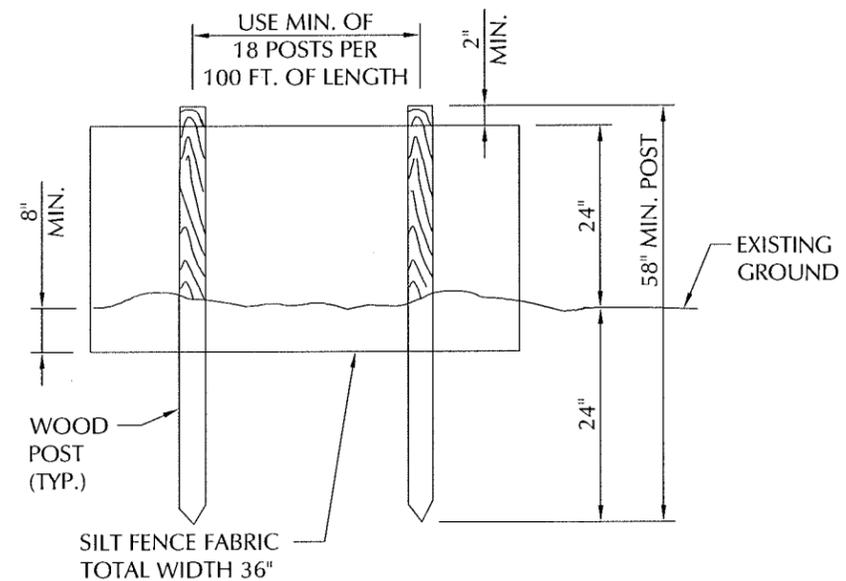
MIN. 2.25" (NOMINAL.) x 2.25" (NOMINAL.) - (1.75" ACTUAL x 1.75" ACTUAL) (3.06 SQ. IN.) HARDWOOD POST (OAK OR HICKORY) OR MIN. 1.25 LB./FT. STEEL POST (STD. "T" OR "U" SECTION) - LENGTH 58"

TIEBACK BETWEEN FENCE POST AND ANCHOR STAKE TO BE NO. 8 (0.25") HOLLOW BRAIDED POLYPROPYLENE ROPE WITH MINIMUM TENSILE STRENGTH OF 1,200 POUNDS

ANCHOR STAKE MIN. 18" LONG TO BE PLACED 12" INTO GROUND

SILT FENCE TIEBACK FOR STEEL POSTS OR WOOD POSTS

(WHEN REQUIRED BY THE ENGINEER OR NOTED IN THE PLANS. COST TO BE INCLUDED IN THE ITEMS FOR SILT FENCE)



ELEVATION VIEW

LESSEE

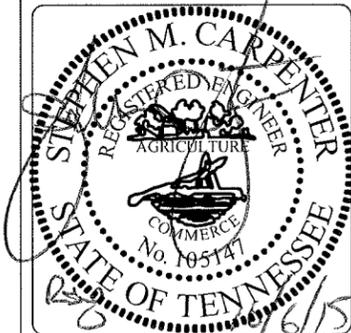


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CHECKED BY:	CTD

REVISIONS		
NO.	DATE	DESCRIPTION
10/06/15		CONSTRUCTION ISSUE
08/27/15		PRELIMINARY REVIEW



PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	SITE DETAILS
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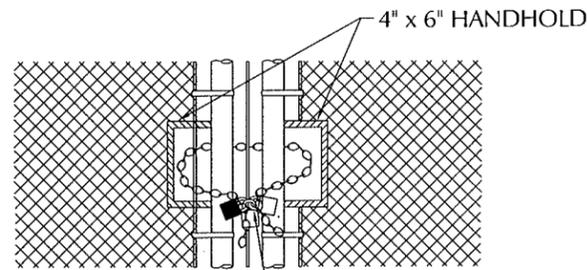
DRAWING NO.	REVISION:
C7A	0

TYPICAL WOVEN WIRE FENCING NOTES

(INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F-900)

1. GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 3"Ø SCHEDULE 40 FOR GATE WIDTHS UP THRU 7 FEET OR 14 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
2. LINE POST: 2"Ø SCHEDULE 40 PIPE PER ASTM-F1083. INSTALL EVERY 10' ALONG FENCE LINE.
3. GATE FRAME: 1 1/2"Ø SCHEDULE 40 PIPE COATED BLACK PER ASTM-F1083 .
4. TOP RAIL & BRACE RAIL: 1 5/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
5. CHAIN LINK FABRIC: 9 GA. MIN. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
6. TIE WIRE: MINIMUM 11 GA GALVANIZED STEEL INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
7. TENSION WIRE: 7 GA. GALVANIZED STEEL .
8. BARBED WIRE: DOUBLE STRAND 12-1/2 GAUGE TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS. (IF USED)
9. GATE LATCH: 1-3/8" O.D. PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (KEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY OWNER).
10. LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
11. HEIGHT = 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION.
12. WORK WITH SPECIFICATION 2831.

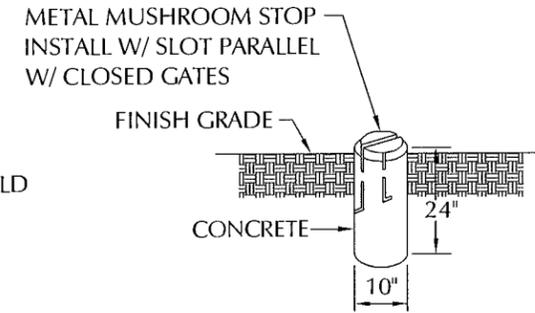
CHECK LOCAL CODES FOR BARBED WIRE REQUIREMENTS.



CONTRACTOR TO SUPPLY & INSTALL A 3/8" x 36" FORGED ZINC COATED CHAIN W/ A FOUR DIGIT COMBO MASTER LOCK W/ ELONGATED SHANK.

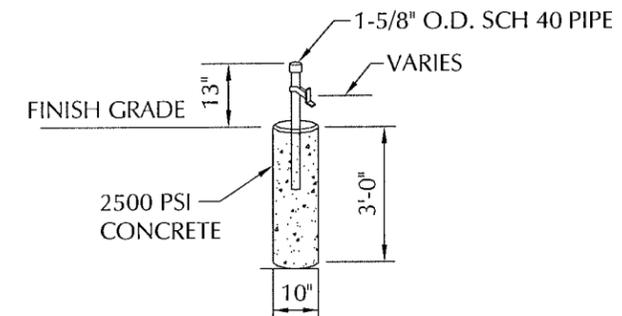
FENCE LOCK DETAIL

NTS



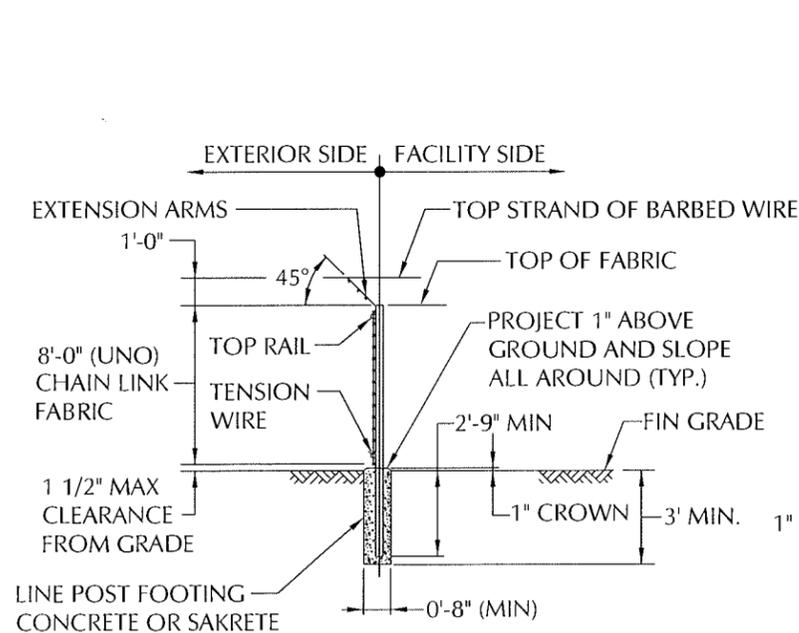
MUSHROOM STOP

NTS



GATE STOP DETAIL

NTS

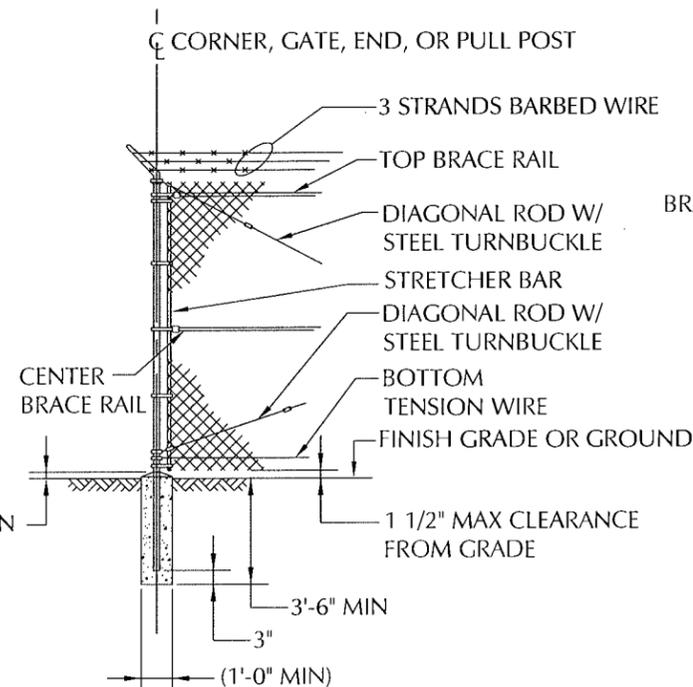


TYPICAL SECTION

WOVEN WIRE FENCE

NTS

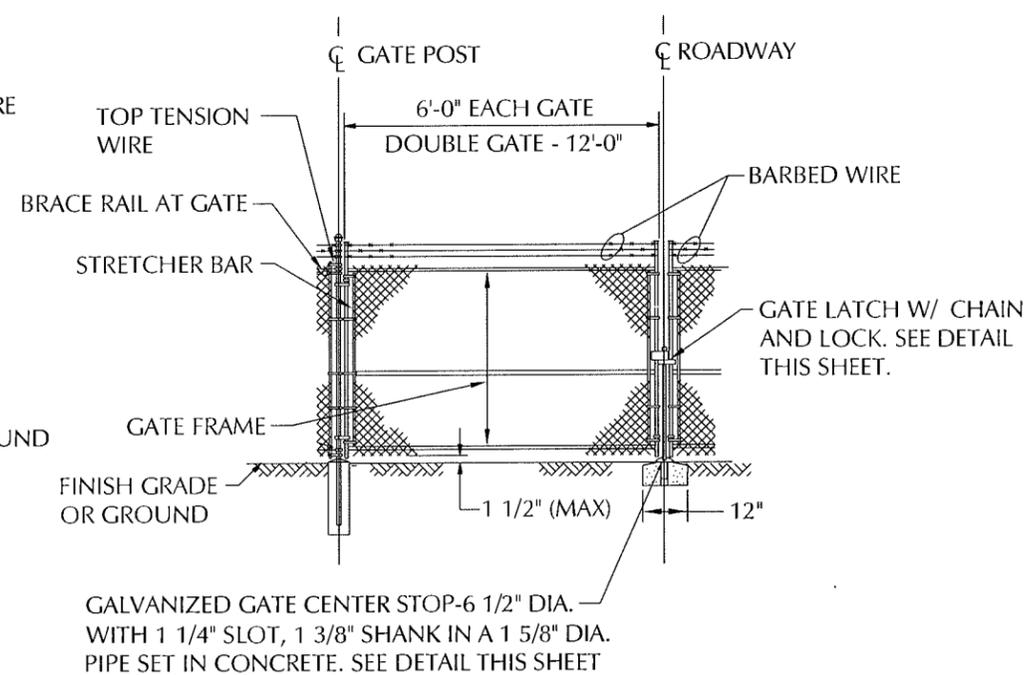
17
C2



WOVEN WIRE CORNER, GATE, END, OR PULL POST

NTS

18
C2



WOVEN WIRE DOUBLE GATE

NTS

19
C2

LESSEE

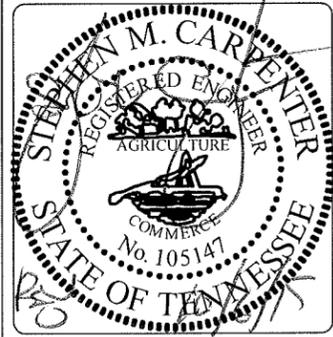


1961 NORTHPOINT BLVD, SUITE 130
HIXSON, TN 37343
PH: 423-843-9500
FAX: 423-843-9509

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A&E PROJECT #:	20130967443
DRAWN BY:	CAD
CHECKED BY:	CTD

REVISIONS		
NO.	DATE	DESCRIPTION
10/06/15		CONSTRUCTION ISSUE
08/27/15		PRELIMINARY REVIEW



PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	FENCE DETAILS
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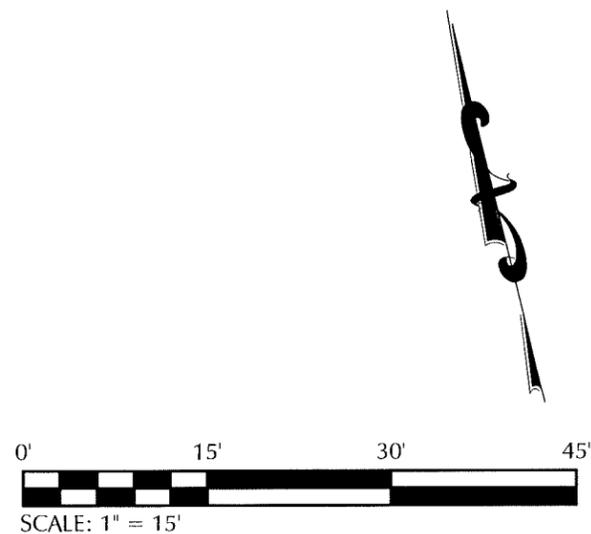
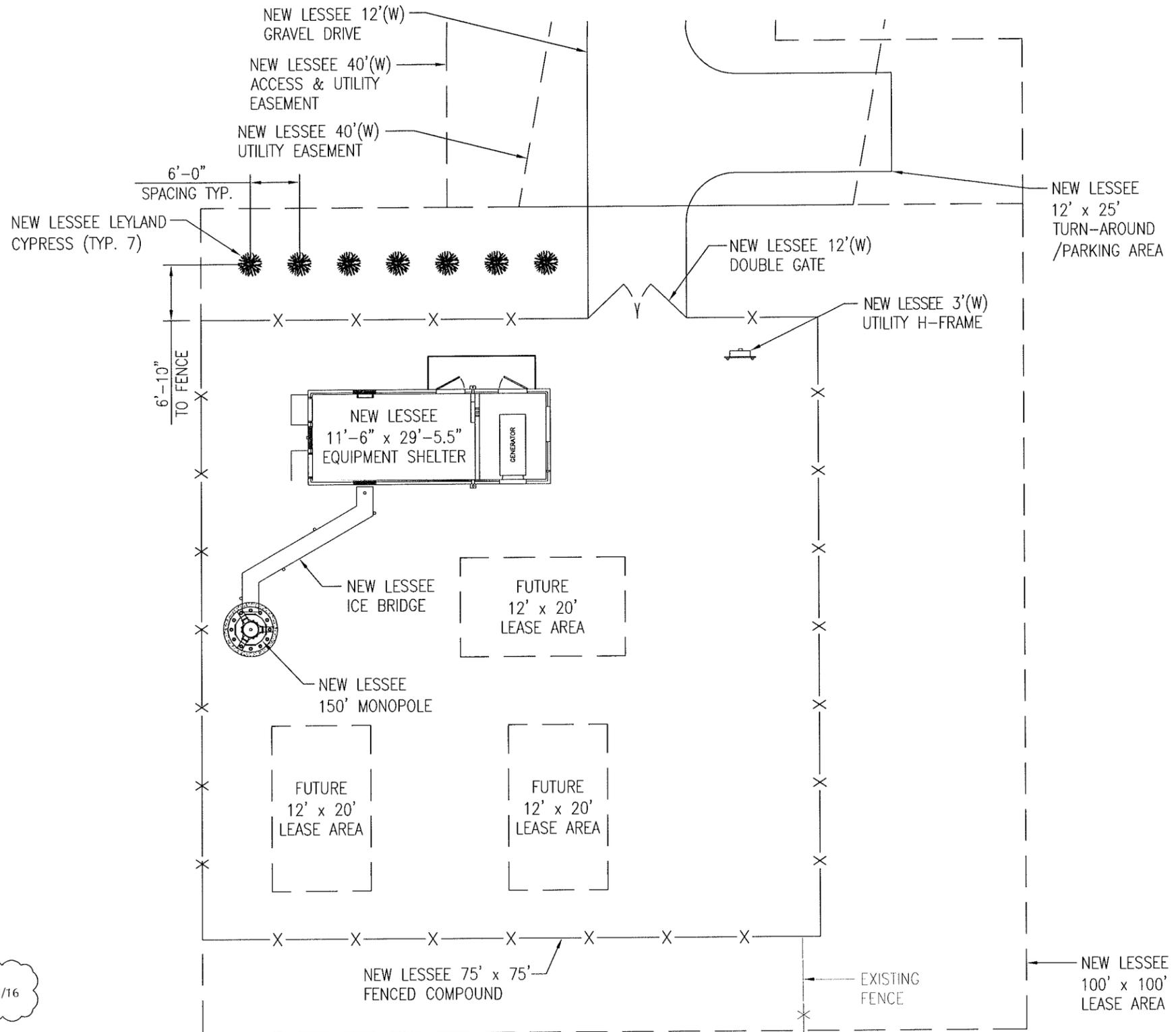
DRAWING NO.	REVISION:
C8	0

PLANTING SCHEDULE

QTY	BOTANICAL NAME	COMMON NAME	CALIPER	TYPE	SPACING	PLANTING HEIGHT	PLANTING WIDTH	MATURE HEIGHT	MATURE SPREAD	SUNLIGHT	SOIL CONDITIONS	SYMBOL	REMARKS
7	X Cupressocyparis leylandii	Leyland Cypress	N/A	UNDERSTORY EVERGREEN	SEE PLAN	4 FT	N/A	25-50 FT	10 FT	FULL OR PARTIAL	ADAPTABLE		FULL TO BASE

LANDSCAPE NOTES:

1. ALL PLANT MATERIAL SHALL CONFORM TO THE STANDARDS SET FORTH THE CURRENT EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK OF NURSERYMEN.
2. PLANTING PLAN TAKES PRECEDENCE OVER PLANT LIST.
3. ALL TREES SHALL BE STAKED OR GUYED AT TIME OF PLANTING UNLESS NO STAKES IS PRE-APPROVED BY OWNER. STAKES OR GUYS SHALL NOT RESTRICT MOVEMENT OF THE PLANT, BUT SHALL HAVE 2"-3" OF SLACK IN EACH GUY WIRE.
4. ALL PLANT MATERIAL IS SUBJECT TO THE OWNERS APPROVAL PRIOR TO INSTALLATION TO INSURE THE CONFORMITY TO THE SPECIFICATIONS.
5. APPLY GRANULAR PRE-EMERGENT HERBICIDE TO SOIL PER MANUFACTURERS RECOMENDATIONS BELOW MULCH BED PRIOR TO MULCH APPLICATION.
6. APPLY "LESCO" (OR EQUAL) GRANULAR SLOW RELEASE FERTILIZER PER MANUFACTURERS RECOMENDATIONS TO TREES AT TIME OF PLANTING.
7. PLACE 3"-4" MIN. THICKNESS OF SHREDDED BROWN HARDWOOD MULCH 10' WIDE AROUND FENCED AREA AS SHOWN ON PLAN. IF NECESSARY, INSTALL METAL OR PVC EDGING STRIPS TO PREVENT MULCH FROM WASHING ONTO ROAD OR OTHERWISE CAUSING PROBLEMS.
8. CONTRACTOR SHALL WARRANTY PLANTS FOR A PERIOD OF 1 YEAR AFTER FINAL ACCEPTANCE.



3 03/21/16

LESSEE

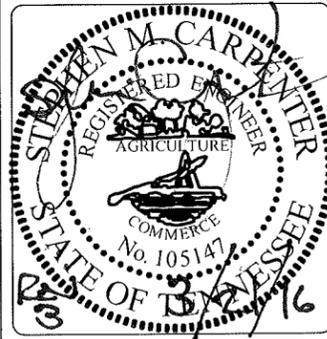


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2	02/18/16	ZONING UPDATES
3	12/17/15	ADDITIONAL CARRIER ADDED
4	10/06/15	CONSTRUCTION ISSUE
5	08/27/15	PRELIMINARY REVIEW



PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	
LANDSCAPE PLAN	
DRAWING NO.	REVISION:
L1	3

LESSEE

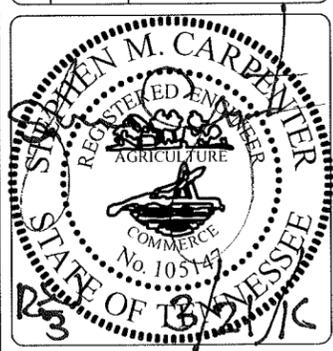


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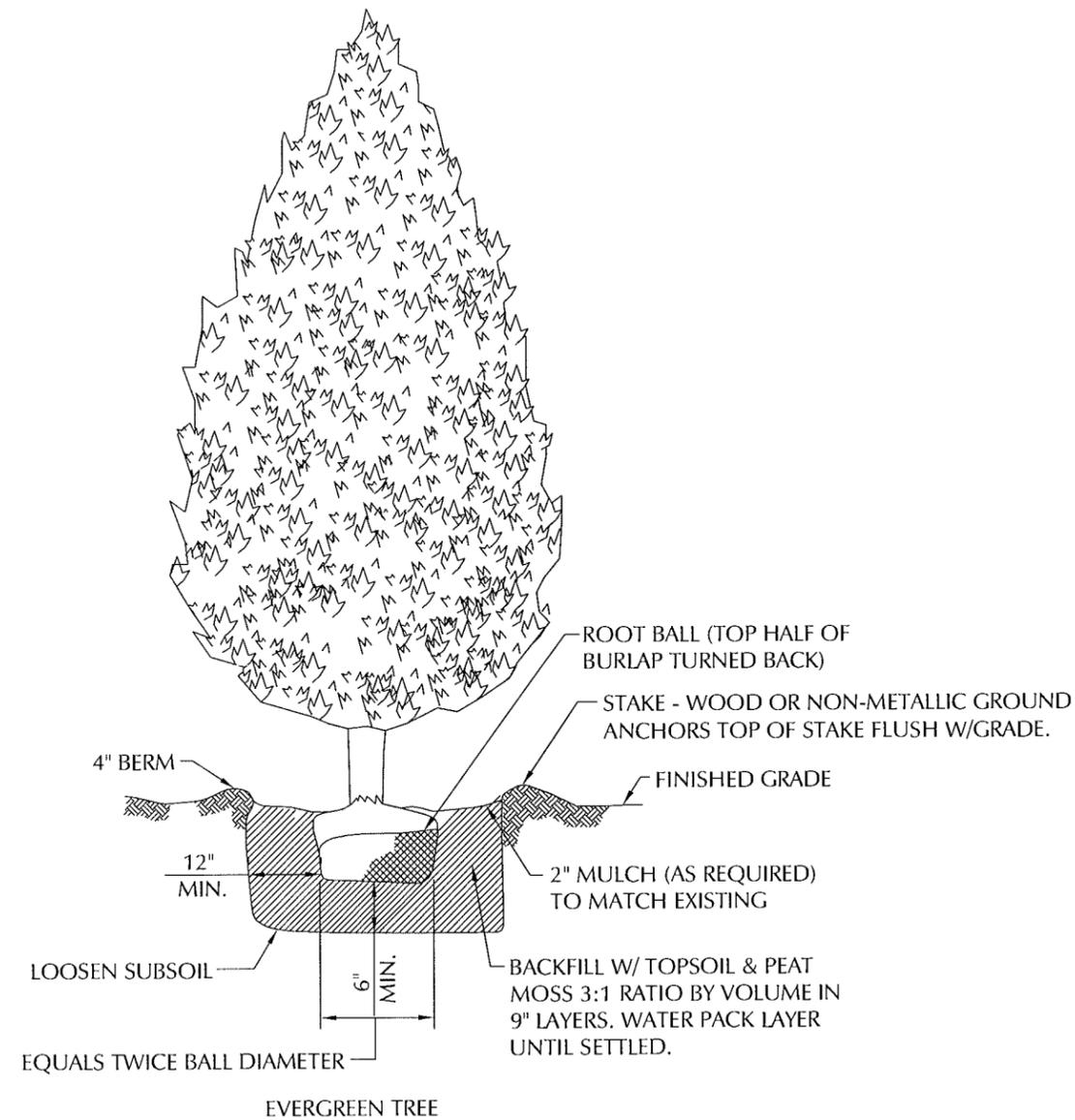
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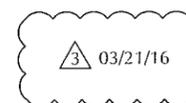
PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	LANDSCAPE DETAILS
--------------	-------------------

DRAWING NO.	REVISION:
L2	3



NOTES:
 1. EVERGREEN TREE SHALL BE MIN. 4'-0" IN HEIGHT AT TIME OF PLANTING.



ELECTRICAL NOTES:

1. PROVIDE AND INSTALL WARNING TAPE FOR ELECTRIC SERVICE CONDUIT 12" BELOW GRADE. SEE CONDUIT SECTION ON SHEET E4.
2. CONTRACTOR TO PAY FOR THE SERVICE AS DIRECTED BY THE UTILITY COMPANY.
3. CONTRACTOR TO USE RIGID METAL CONDUIT WHERE CONDUITS CROSS ACCESS ROADS. CONTRACTOR TO BOND RGS CONDUIT WITH GROUNDING CLAMP TO THE GROUND RADIAL IN TRENCH.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC AND TELEPHONE UTILITY COMPANIES FOR SERVICES.
5. CONTRACTOR TO PAY ALL FEES FOR SERVICES REQUIRED.
6. CONTRACTOR TO BE ADVISED THAT EXISTING UNDERGROUND CONDUITS, GROUND CABLES EXIST. DIG WITH CAUTION.
7. CONTRACTOR TO VERIFY POWER AND TELCO LB LOCATIONS AND FLEX CONDUIT SIZE AND ROUTING TO THE EQUIPMENT SHELTER WITH MANUFACTURER'S DRAWINGS.
8. CONTRACTOR IS REQUIRED TO INSTALL, WIRE, AND GROUND TOWER LIGHT CONTROL BOX INSIDE THE SHELTER.

UTILITY NOTES:

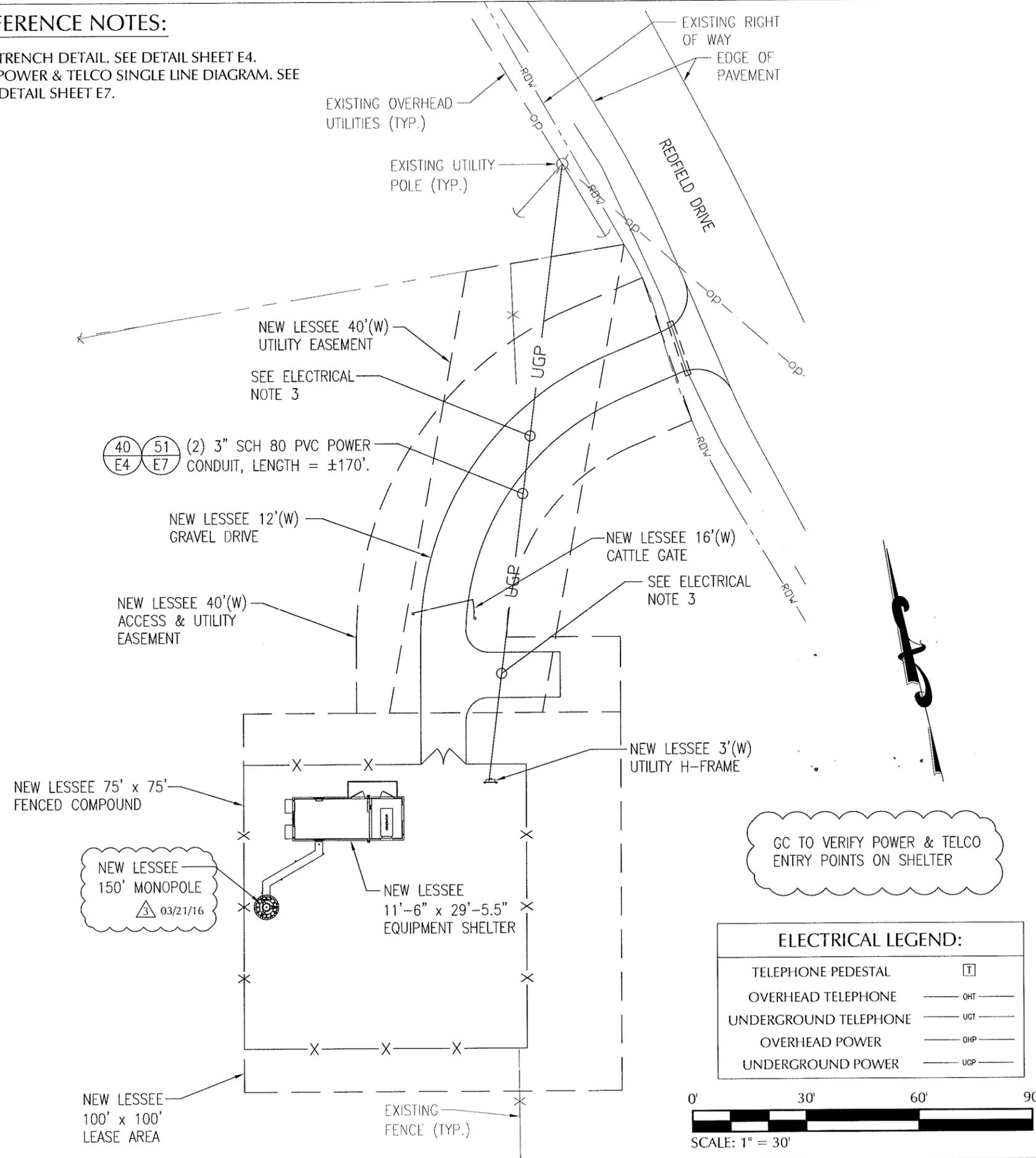
1. ALL POWER CONDUITS ABOVE GRADE, SWEEPS, & ELBOWS TO BE RIGID GALVANIZED STEEL CONDUIT.
2. INSTALL PULL STRING IN TELCO CONDUIT.
3. CONTRACTOR OR THEIR SUB-CONTRACTOR SHALL PROVIDE PULL BOXES FOR POWER AND TELCO CONDUIT RUNS AS REQUIRED BY LOCAL, STATE, OR NATIONAL ELECTRICAL CODE, CURRENT VERSION.

POWER NOTES:

1. UTILITY COMPANY WILL RUN A NEW SERVICE LINE FROM REDFIELD ROAD WITHIN AND ALONG THE PROPOSED 40' ACCESS & UTILITY EASEMENT. HOWEVER, A THIRD PARTY EASEMENT WILL BE NEEDED FROM GLANNETTI, AND ALSO AN ADDITIONAL EASEMENT FROM THE LANDOWNER COMER.
2. UTILITY COMPANY WILL REQUIRE 40' IN EASEMENT WIDTH (20' EITHER SIDE OF CENTERLINE). NOT REQUIRED TO BE CLEARED DUE TO GOING UNDERGROUND.
3. UTILITY COMPANY DOES REQUIRE A WRITTEN EASEMENT ON THEIR SUPPLIED FORM.
4. UTILITY COMPANY WILL SET NEW TRANSFORMER ON EXISTING POLE. CONTRACTOR WILL GO UNDERGROUND FROM THERE.
5. CONTRACTOR TO SUPPLY WEATHER HEADS, RISER CONDUITS, 90 ° LONG SWEEPS AT EXISTING POLE.
6. CONTRACTOR TO TRENCH 36" DEEP (24" MINIMUM FROM THE TOP OF CONDUIT) FROM LAST POLE TO UTILITY H-FRAME A DISTANCE OF APPROXIMATELY 150' - PER CODE UTILITY COMPANY DOES NOT HAVE PREFERENCE SO LONG AS CONTRACTOR MEETS STANDARD ELECTRICAL CODE.
7. POWER COMPANY TO SUPPLY WIRE FOR SECONDARY RUN BETWEEN TRANSFORMER AND H-FRAME.
8. CONTRACTOR TO GET INSPECTION OF DITCH AND IS RESPONSIBLE FOR BACKFILL.
9. CONTRACTOR TO FURNISH AND INSTALL - (2) 3" SCH 80 CONDUITS IN TRENCH (WITH PULL STRING) FROM TRANSFORMER POLE TO UTILITY H-FRAME.
10. CONTRACTOR TO FURNISH AND INSTALL - (2) 90 ° SWEEPS AT POLE AND UTILITY H-FRAME.
11. CONTRACTOR TO FURNISH AND INSTALL - 3" RISER CONDUIT UP NEW POLE TO TRANSFORMER.
12. MTEMC WILL PULL/PROVIDE ALUMINUM WIRE TO METER BASES.
13. TO SET UP ACCOUNT, CONTACT: KEVIN LEE AT RUTHERFORD AND CANNON COUNTIES, (615) 494-1608. \$195.00 FEE.

REFERENCE NOTES:

- 40 - TRENCH DETAIL. SEE DETAIL SHEET E4.
 51 - POWER & TELCO SINGLE LINE DIAGRAM. SEE DETAIL SHEET E7.



LESSEE

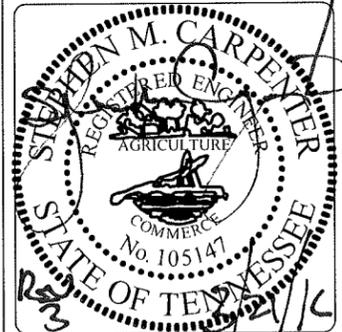


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CHECKED BY:	CTD

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NO.	DATE	DESCRIPTION
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2	02/18/16	ZONING UPDATES
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PROJECT No:	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
OVERALL ELECTRICAL SITE PLAN

DRAWING NO.	REVISION:
E1	3

ELECTRICAL NOTES:

1. PROVIDE AND INSTALL WARNING TAPE FOR ELECTRIC SERVICE CONDUIT 12" BELOW GRADE. SEE CONDUIT SECTION ON SHEET E4.
2. CONTRACTOR TO PAY FOR THE SERVICE AS DIRECTED BY THE UTILITY COMPANY.
3. CONTRACTOR TO USE RIGID METAL CONDUIT WHERE CONDUITS CROSS ACCESS ROADS. CONTRACTOR TO BOND RGS CONDUIT WITH GROUNDING CLAMP TO THE GROUND RADIAL IN TRENCH.
4. CONTRACTOR SHALL COORDINATE WITH ELECTRIC AND TELEPHONE UTILITY COMPANIES FOR SERVICES.
5. CONTRACTOR TO PAY ALL FEES FOR SERVICES REQUIRED.
6. CONTRACTOR TO BE ADVISED THAT EXISTING UNDERGROUND CONDUITS, GROUND CABLES EXIST. DIG WITH CAUTION.
7. CONTRACTOR TO VERIFY POWER AND TELCO LB LOCATIONS AND FLEX CONDUIT SIZE AND ROUTING TO THE EQUIPMENT SHELTER WITH MANUFACTURER'S DRAWINGS.
8. CONTRACTOR IS REQUIRED TO INSTALL, WIRE, AND GROUND TOWER LIGHT CONTROL BOX INSIDE THE SHELTER.

UTILITY NOTES:

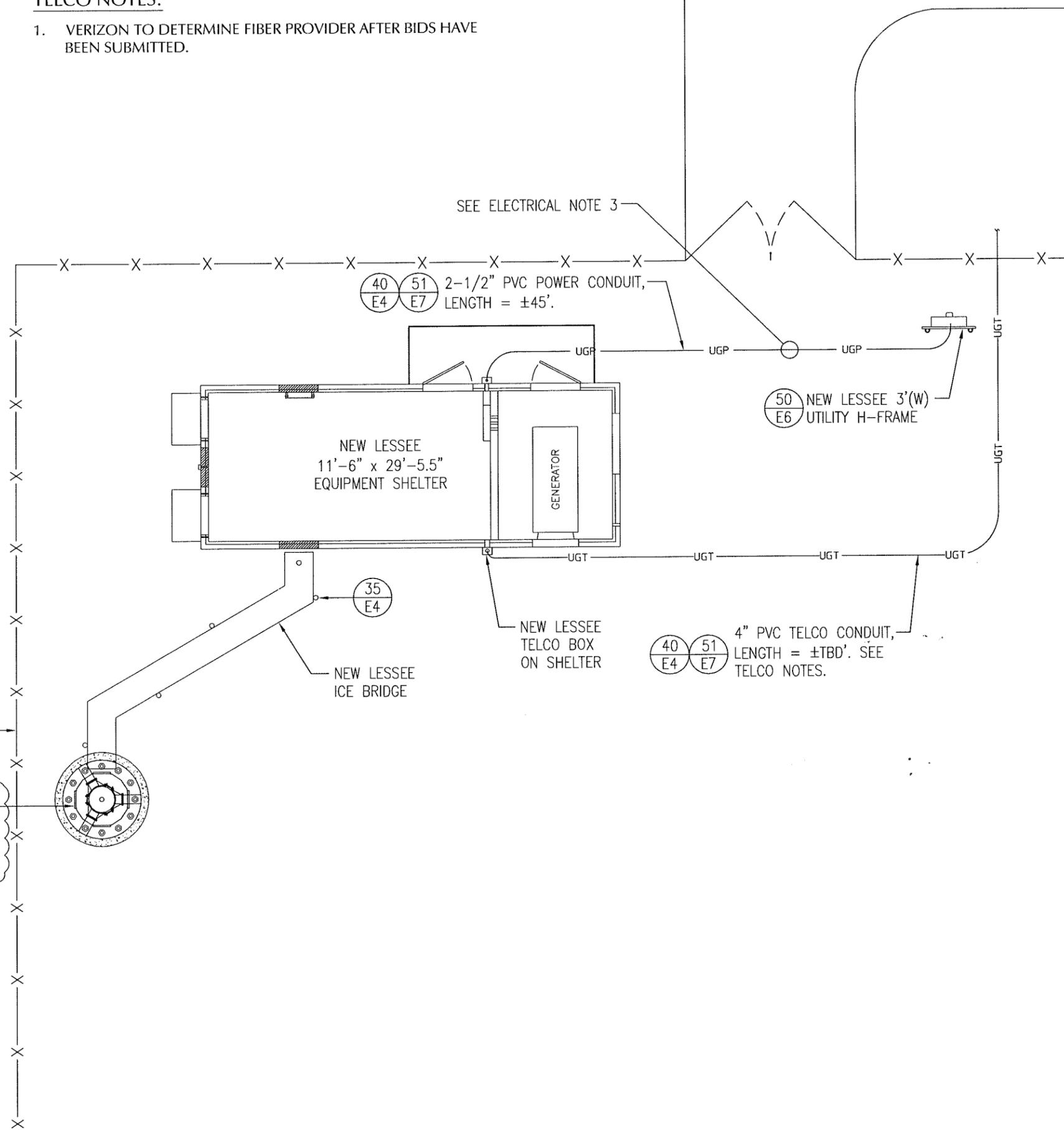
1. ALL POWER CONDUITS ABOVE GRADE, SWEEPS, & ELBOWS TO BE RIGID GALVANIZED STEEL CONDUIT.
2. INSTALL PULL STRING IN TELCO CONDUIT.
3. CONTRACTOR OR THEIR SUB-CONTRACTOR SHALL PROVIDE PULL BOXES FOR POWER AND TELCO CONDUIT RUNS AS REQUIRED BY LOCAL, STATE, OR NATIONAL ELECTRICAL CODE, CURRENT VERSION.

REFERENCE NOTES:

- 35 - GPS MOUNTING DETAIL. SEE DETAIL SHEET E4.
- 40 - TRENCH DETAIL. SEE DETAIL SHEET E4.
- 50 - UTILITY CENTER. SEE DETAIL SHEET E6.
- 51 - POWER & TELCO SINGLE LINE DIAGRAM. SEE DETAIL SHEET E7.

TELCO NOTES:

1. VERIZON TO DETERMINE FIBER PROVIDER AFTER BIDS HAVE BEEN SUBMITTED.



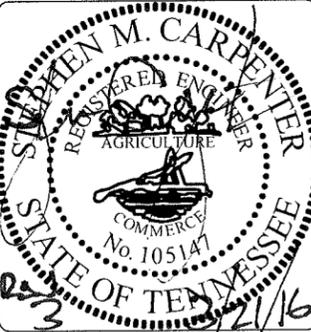
LESSEE

TeleCAD Wireless
 1961 NORTHPOINT BLVD, SUITE 130
 HIXSON, TN 37343
 PH: 423-843-9500
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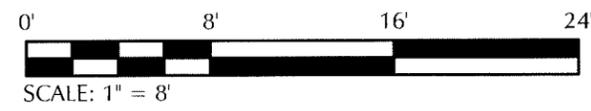
PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
ELECTRICAL SITE PLAN

DRAWING NO.	REVISION:
E1A	3

ELECTRICAL LEGEND:

TELEPHONE PEDESTAL	□ T
OVERHEAD TELEPHONE	— OHT —
UNDERGROUND TELEPHONE	— UGT —
OVERHEAD POWER	— OHP —
UNDERGROUND POWER	— UGP —



GROUNDING NOTES:

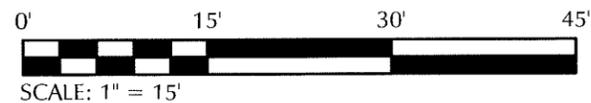
1. INSTALL GROUND RING 2 FEET MIN. OUTSIDE OF EQUIPMENT PAD FOUNDATION AND 30 INCHES BELOW GRADE. GROUND RING CONSISTS OF #2 AWG SOLID BARE TINNED COPPER. LESSEE REPRESENTATIVE TO INSPECT GROUNDING BEFORE BACKFILLING.
2. INSTALL GROUND RING BEFORE PAD IS SET.
3. GROUND EACH CABINET FRAME WITH #2 AWG SOLID TINNED COPPER WITH 2 HOLE LUG, 2 PER CABINET.
4. CADWELD ALL CONNECTIONS TO BURIED GROUND RING WITH PARALLEL WELDS. EXCEPTION: USE EXOTHERMIC WELDS FOR CONNECTIONS TO GROUND PLATES.
5. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE MECHANICAL CONNECTORS (T & B 32007) FOR CONNECTION TO FLAT METAL SURFACES. PROVIDE STAINLESS STEEL HARDWARE AND LOCKWASHERS ON ALL MECHANICAL CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO CONNECTIONS.
6. MAKE ALL GROUNDING CONNECTIONS AS SHORT AS POSSIBLE. MINIMUM BENDING RADIUS IS 12".
7. CLEAN ALL SURFACES AND BRUSH WITH BRONZE BRUSH PRIOR TO MAKING GROUND CONNECTIONS. PAINT ALL EXOTHERMIC WELDS TO GALVANIZED OBJECTS WITH GALVANIZED PAINT.
8. PROVIDE TWO #2 AWG SOLID TINNED COATED COPPER CONDUCTORS FROM THE BAR NONE SOLUTION KIT TO THE BURIED GROUND RING. USE TWO HOLE LUG AT BAR NONE SOLUTION KIT, CADWELD TO GROUND RING.
9. INSTALL 18" x 18" x 1/8" COPPER CLAD GROUND PLATES IN LOCATIONS SHOWN ON GROUNDING PLAN (6'-0" MIN. SPACING).
10. VERIZON'S GROUND RING MUST TEST AT 5 OHMS OR LESS INDEPENDENT OF MASTER RING.

CONSTRUCTION NOTES:

- A. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE MECHANICAL CONNECTORS (T & B 32007) FOR CONNECTION TO FLAT METAL SURFACES. PROVIDE STAINLESS STEEL HARDWARE AND LOCKWASHERS ON ALL MECHANICAL CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO CONNECTIONS.
- B. ALL EXTERIOR SUPPORT STRUCTURES MUST BE CADWELDED.
- C. ALL ICE BRIDGE SECTIONS TO BE JUMPERED W/ #6 STRANDED.
- D. SHELTER HOOD TO BE GROUNDED W/TWO HOLE LUG TO DOOR FRAME W/#6 GREEN.

GROUNDING LEGEND:

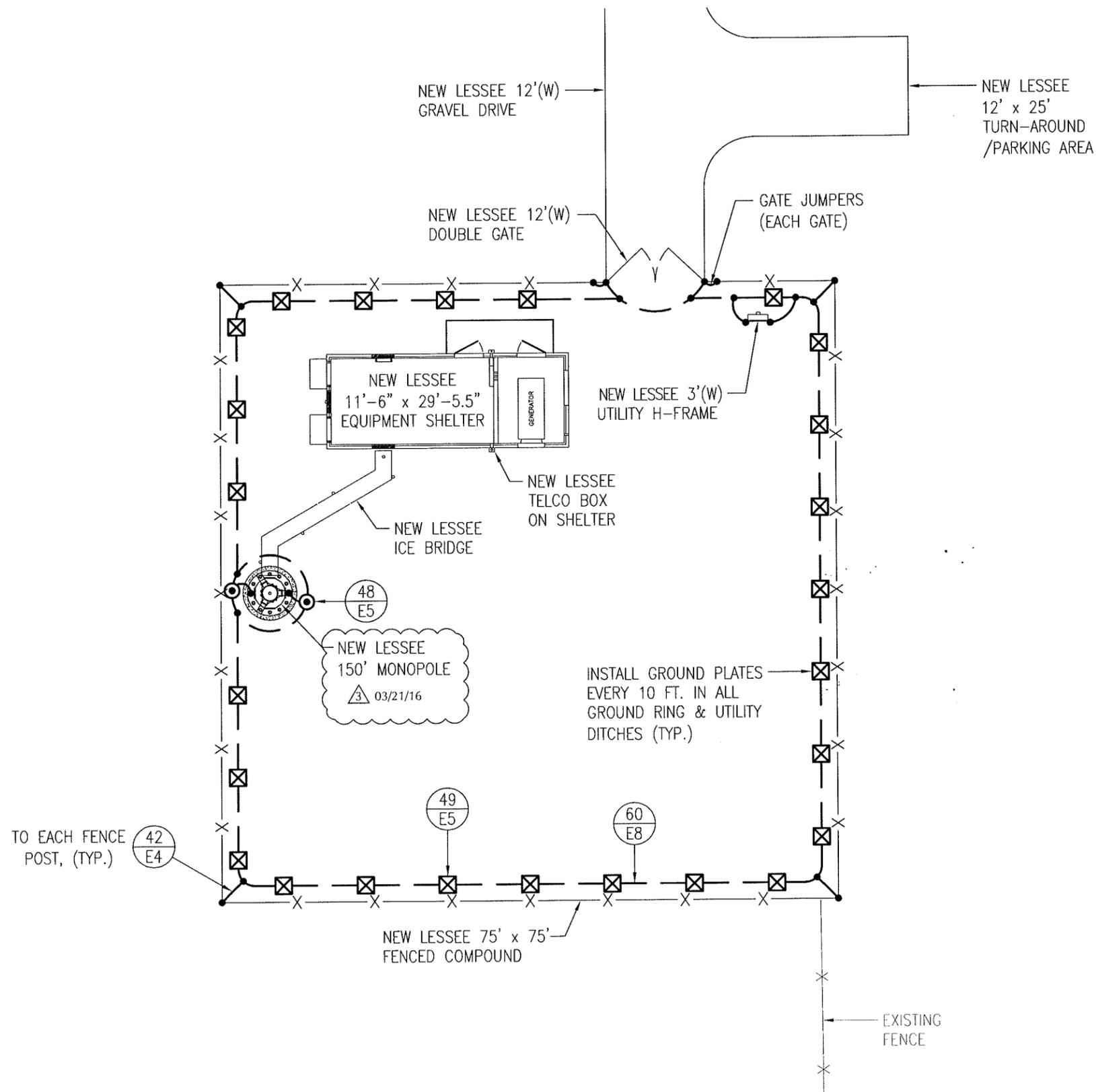
- #2 AWG SOLID TINNED COPPER GROUND CABLE RUN 30" BELOW GRADE
- #2 AWG SOLID TINNED COPPER GROUND CABLE RUN ABOVE GRADE
- ⊗ 18" x 18" x 1/8" COPPER GROUND PLATE
- PARALLEL CADWELD
- ⊙ CADWELD WITH INSPECTION SLEEVE
- ⊙## CHEMICAL GROUND ROD



REFERENCE NOTES:

- 42 - FENCE GROUNDING DETAIL. SEE DETAIL SHEET E4.
- 48 - INSPECTION SLEEVE DETAIL. SEE DETAIL SHEET E5.
- 49 - GROUND PLATE DETAIL. SEE DETAIL SHEET E5.
- 60 - GROUNDING SYSTEM SINGLE LINE DIAGRAM. SEE DETAIL SHEET E8.

QUANTITY OF GROUND PLATES TO BE CALLED OUT BY VERIZON DURING BID WALK



LESSEE



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PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SITE GROUNDING PLAN

DRAWING NO.	REVISION:
E2	3

GROUNDING NOTES:

1. INSTALL GROUND RING 2 FEET MIN. OUTSIDE OF EQUIPMENT PAD FOUNDATION AND 30 INCHES BELOW GRADE. GROUND RING CONSISTS OF #2 AWG SOLID BARE TINNED COPPER. LESSEE REPRESENTATIVE TO INSPECT GROUNDING BEFORE BACKFILLING.
2. INSTALL GROUND RING BEFORE PAD IS SET.
3. GROUND EACH CABINET FRAME WITH #2 AWG SOLID TINNED COPPER WITH 2 HOLE LUG, 2 PER CABINET.
4. CADWELD ALL CONNECTIONS TO BURIED GROUND RING WITH PARALLEL WELDS. EXCEPTION: USE EXOTHERMIC WELDS FOR CONNECTIONS TO GROUND PLATES.
5. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE MECHANICAL CONNECTORS (T & B 32007) FOR CONNECTION TO FLAT METAL SURFACES. PROVIDE STAINLESS STEEL HARDWARE AND LOCKWASHERS ON ALL MECHANICAL CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO CONNECTIONS.
6. MAKE ALL GROUNDING CONNECTIONS AS SHORT AS POSSIBLE. MINIMUM BENDING RADIUS IS 12".
7. CLEAN ALL SURFACES AND BRUSH WITH BRONZE BRUSH PRIOR TO MAKING GROUND CONNECTIONS. PAINT ALL EXOTHERMIC WELDS TO GALVANIZED OBJECTS WITH GALVANIZED PAINT.
8. PROVIDE TWO #2 AWG SOLID TINNED COATED COPPER CONDUCTORS FROM THE BAR NONE SOLUTION KIT TO THE BURIED GROUND RING. USE TWO HOLE LUG AT BAR NONE SOLUTION KIT, CADWELD TO GROUND RING.
9. INSTALL 18" x 18" x 1/8" COPPER CLAD GROUND PLATES IN LOCATIONS SHOWN ON GROUNDING PLAN (6'-0" MIN. SPACING).
10. VERIZON'S GROUND RING MUST TEST AT 5 OHMS OR LESS INDEPENDENT OF MASTER RING.

CONSTRUCTION NOTES:

- A. GROUND ALL EXTERIOR EXPOSED METAL OBJECTS. USE TWO HOLE MECHANICAL CONNECTORS (T & B 32007) FOR CONNECTION TO FLAT METAL SURFACES. PROVIDE STAINLESS STEEL HARDWARE AND LOCKWASHERS ON ALL MECHANICAL CONNECTIONS. APPLY ANTI-OXIDE COMPOUND TO CONNECTIONS.
- B. ALL EXTERIOR SUPPORT STRUCTURES MUST BE CADWELDED.
- C. ALL ICE BRIDGE SECTIONS TO BE JUMPERED W/ #6 STRANDED.
- D. SHELTER HOOD TO BE GROUNDED W/TWO HOLE LUG TO DOOR FRAME W/#6 GREEN.

GROUNDING LEGEND:

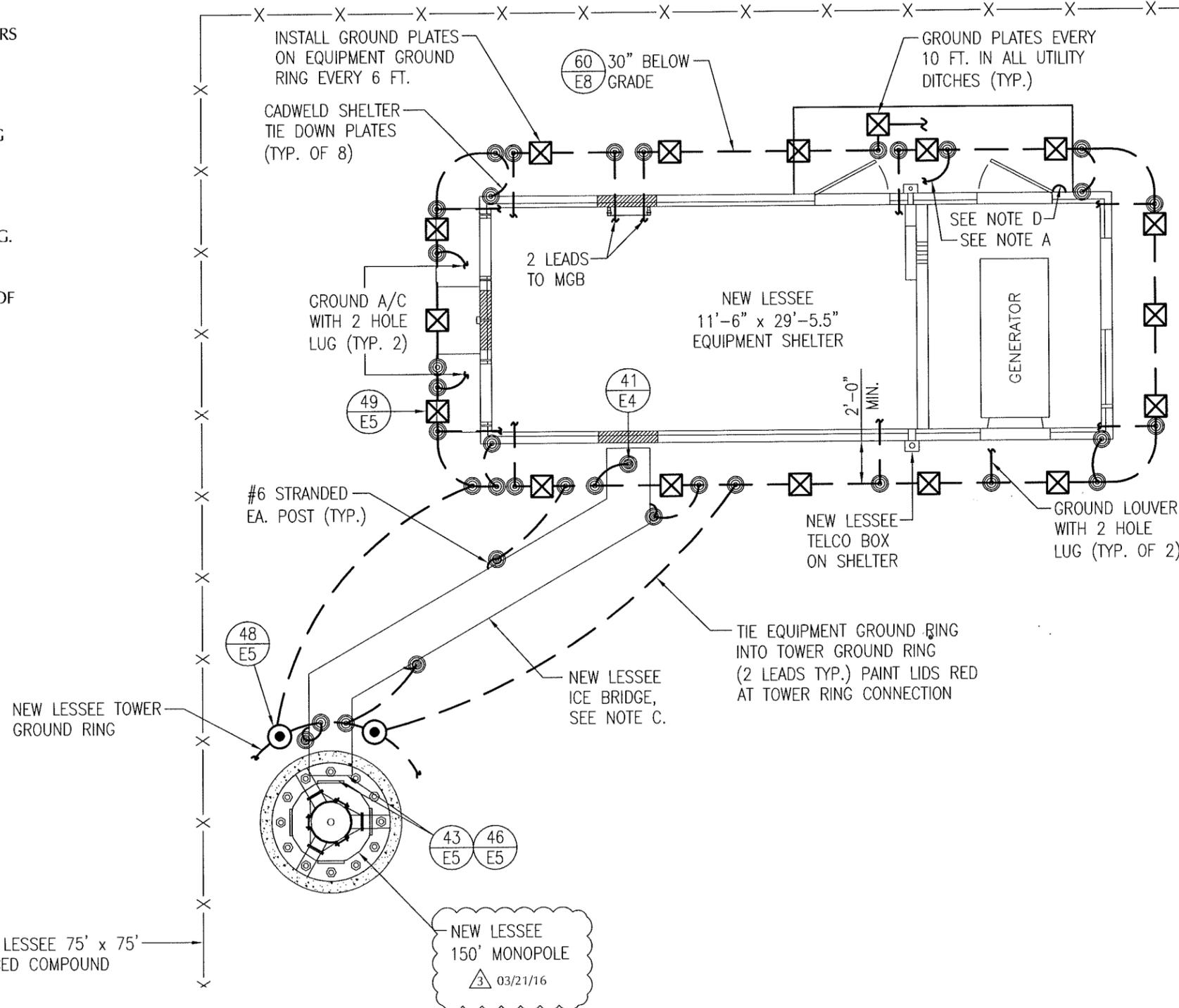
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- #2 AWG SOLID TINNED COPPER GROUND CABLE RUN ABOVE GRADE
- ⊗ 18" x 18" x 1/8" COPPER GROUND PLATE
- PARALLEL CADWELD
- ⊙ CADWELD WITH INSPECTION SLEEVE
- ⊙// CHEMICAL GROUND ROD



REFERENCE NOTES:

- 41 - BAR NONE SOLUTION KIT. SEE DETAIL SHEET E4.
- 43 - BAR NONE UNIVERSAL KIT. SEE DETAIL SHEET E5.
- 46 - ANTENNA CABLE GROUNDING FOR MONOPOLE. SEE DETAIL SHEET E5.
- 48 - INSPECTION SLEEVE DETAIL. SEE DETAIL SHEET E5.
- 49 - GROUND PLATE DETAIL. SEE DETAIL SHEET E5.
- 60 - GROUNDING SYSTEM SINGLE LINE DIAGRAM. SEE DETAIL SHEET E8.

QUANTITY OF GROUND PLATES TO BE CALLED OUT BY VERIZON DURING BID WALK



LESSEE



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SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	EQUIPMENT GROUNDING PLAN
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DRAWING NO.	REVISION:
E2A	3

ELECTRICAL SPECIFICATIONS:

1. SCOPE: PROVIDE LABOR, MATERIALS, AND EQUIPMENT, ETC., REQUIRED TO COMPLETE THE INSTALLATION SHOWN ON THE DRAWINGS.
2. CODES AND STANDARDS: INSTALLATION SHALL COMPLY WITH APPLICABLE LAWS AND ORDINANCES, UTILITY COMPANY REGULATIONS, AND APPLICABLE REQUIREMENTS OF THE LATEST EDITIONS OF:
 - A. NFC - NATIONAL FIRE CODES
 - B. UL - UNDERWRITERS LABORATORIES
 - C. NEC - NATIONAL ELECTRIC CODE
 - D. NEMA - NATIONAL ELECTRICAL MANUFACTURES ASSOCIATION
 - E. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
 - F. SBC - STANDARD BUILDING CODE
3. PERMITS: OBTAIN AND PAY FOR REQUIRED PERMITS, LICENSES, FEES, INSPECTIONS, ETC.
4. COORDINATION: COORDINATE WORK WITH OTHER TRADES.
5. SUBMITTALS: SUBMIT BROCHURES FOR APPROVAL ON MAJOR SYSTEM COMPONENTS.
6. EXISTING SERVICES: DO NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE OWNER.
7. EQUIPMENT: CONNECT ELECTRICALLY OPERATED EQUIPMENT.
8. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES AND SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE OWNER UPON COMPLETION OF THE PROJECT.
9. IDENTIFICATION: IDENTIFY SERVICE DISCONNECTING MEANS WITH PERMANENT NAME PLATE.
10. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIALS AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR THE PERIOD OF THE WARRANTY.
11. CUTTING AND PATCHING: PROVIDE CUTTING REQUIRED TO DO THE WORK. DO NOT CUT MAJOR STRUCTURAL ELEMENTS WITHOUT APPROVAL. PATCHING SHALL BE OF QUALITY EQUAL TO AND OF MATCHING APPEARANCE OF EXISTING CONSTRUCTION.
12. DITCHING AND BACKFILL: PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES.
13. RACEWAYS: UNDERGROUND CONDUIT SHALL BE SCHEDULE 80 PVC CONDUIT (MEET NEMA TC2 - 1990). EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL CONDUIT. UNDERGROUND PVC CONDUIT SHALL TRANSITION TO RIGID GALVANIZED STEEL CONDUIT BEFORE RISING ABOVE GRADE. PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LB. TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 24" RADIUS. GRS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT.
14. SUPPORTS: AS REQUIRED BY THE NEC.
15. CONDUCTORS: USE 98% CONDUCTIVITY COPPER WITH TYPE THHN OR EQUIVALENT 90°C INSULATION, 600 VOLT, COLOR CODED. USE SOLID CONDUCTORS FOR WIRE UP TO AND INCLUDING NO. 10 AWG. USE STRANDED CONDUCTORS FOR WIRE ABOVE NO. 10 AWG.

16. CONNECTORS FOR POWER CONDUCTORS: USE COMPRESSION TYPE INSULATED CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR #8 AWG AND LARGER.
17. GROUNDING: MAIN GROUNDING CONDUCTORS SHALL BE A MINIMUM OF #2 AWG SOLID TINNED COPPER. GROUNDING LEADS ON ANTENNA SUPPORT STRUCTURES SHALL BE A MINIMUM OF #2 AWG SOLID BARE COPPER AND SHALL BE TINNED WHERE THEY ARE INSTALLED AGAINST THE STRUCTURE. GROUND BARS SHALL BE 1/4" THICK, 4" WIDE, LENGTH AS REQUIRED. GROUND RESISTANCE TO BE 5 OHM MAXIMUM. PROVIDE ADDITIONAL GROUNDING PLATES AS REQUIRED.
18. TELEPHONE SERVICE: PROVIDE EMPTY CONDUITS WITH PULL WIRES (10' ON EACH SIDE OF CONDUIT).
19. SERVICE: 240/120, SINGLE PHASE, 3 WIRE, 200 AMP FROM THE METER.

LESSEE

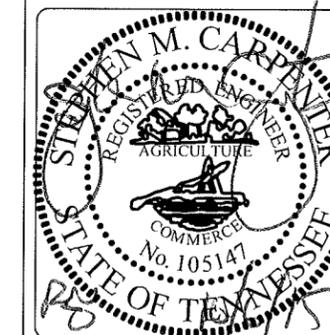


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 PH: 423-843-9500
 FAX: 423-843-9509

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A&E PROJECT #:	20130967443
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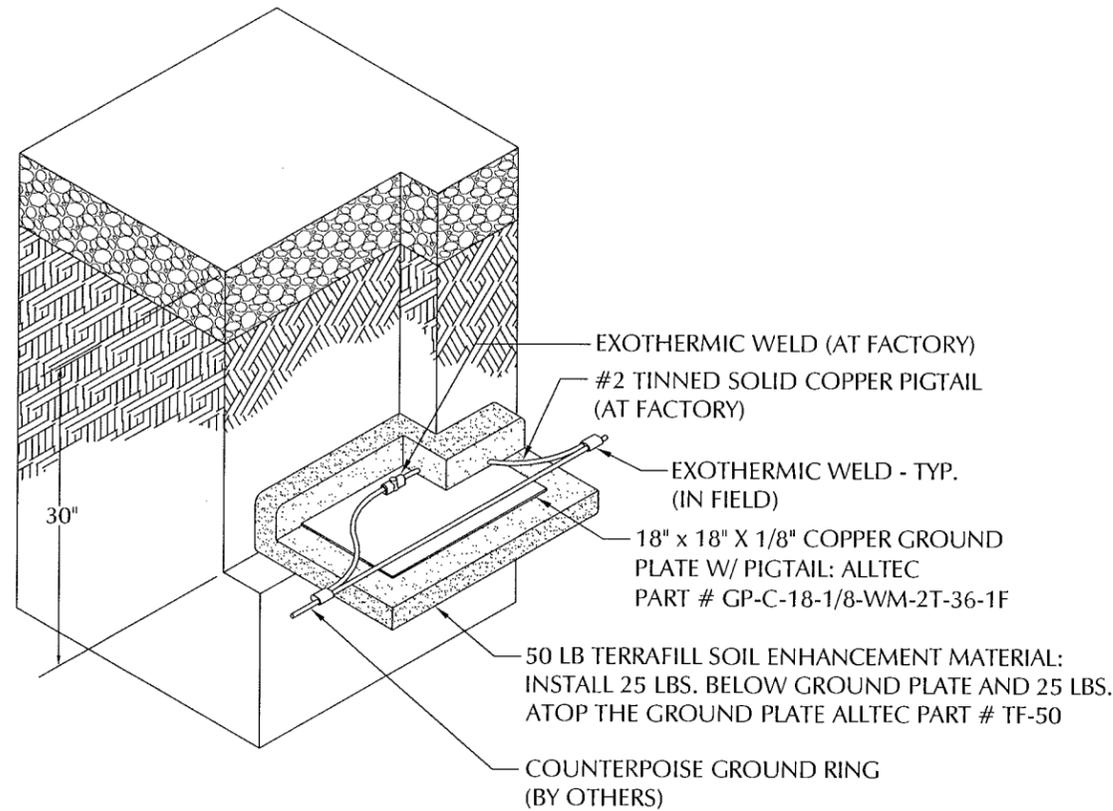
REVISIONS		
NO.	DATE	DESCRIPTION
10/06/15		CONSTRUCTION ISSUE
08/27/15		PRELIMINARY REVIEW



PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:	ELECTRICAL SPECIFICATIONS
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DRAWING NO.	REVISION:
E3	0

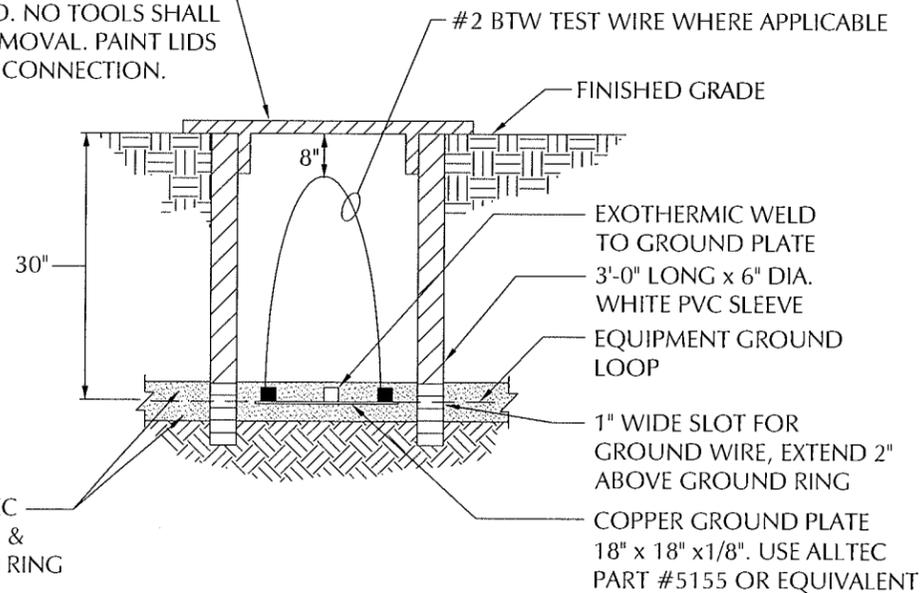


GROUND PLATE DETAIL

NTS

49
E2 49
E2A

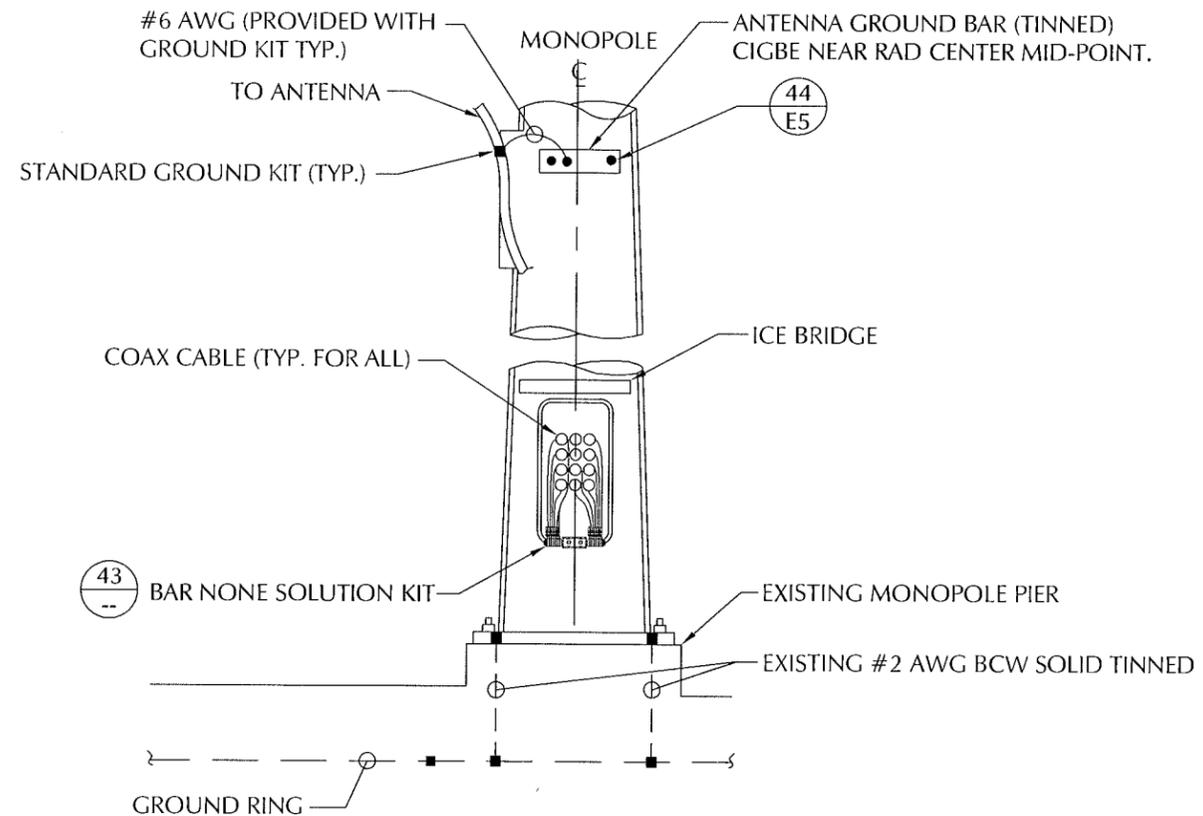
REMOVABLE COVER. COVER SHALL BE REMOVABLE BY HAND. NO TOOLS SHALL BE REQUIRED FOR REMOVAL. PAINT LIDS RED AT TOWER RING CONNECTION.



INSPECTION SLEEVE DETAIL

NTS

48
E2 48
E2A



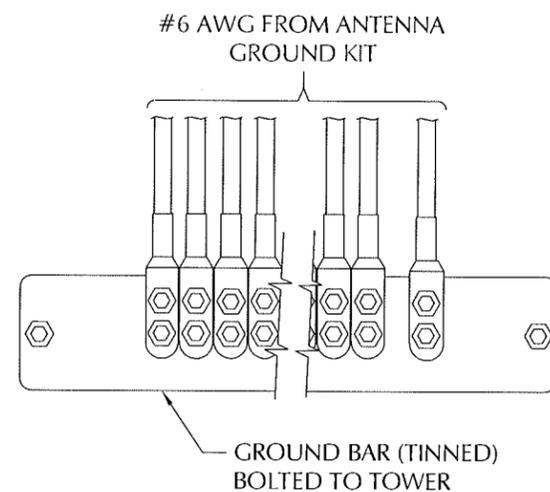
NOTE:

1. MOUNT BAR NONE UNIVERSAL KIT TO COAX PORT LIP OF TOWER
2. IN THE EVENT THAT THE BAR NONE UNIVERSAL KIT CANNOT BE USED, SEE DETAIL 41, SHEET E4 FOR UTILIZING THE BAR NONE SOLUTION #BNPA14 GROUND KIT.

ANTENNA CABLE GROUNDING FOR MONOPOLE

NTS

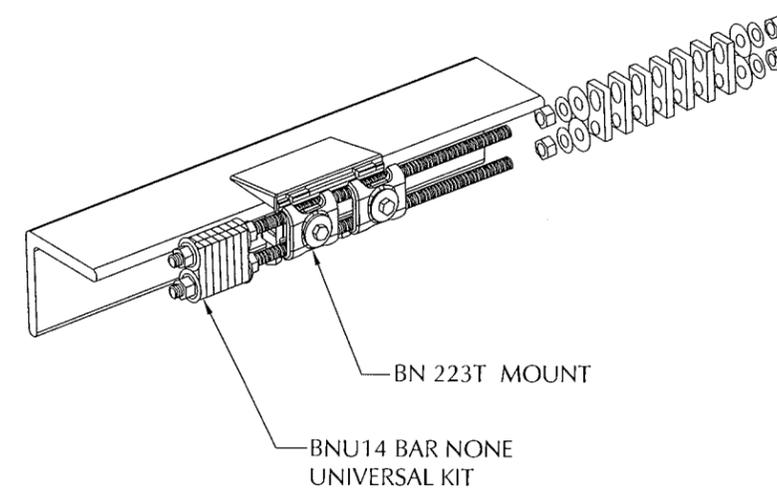
46
E2A



INSTALLATION OF GROUND WIRE TO GROUND BAR

NTS

44
--



BAR NONE UNIVERSAL KIT

NTS

43
E2A

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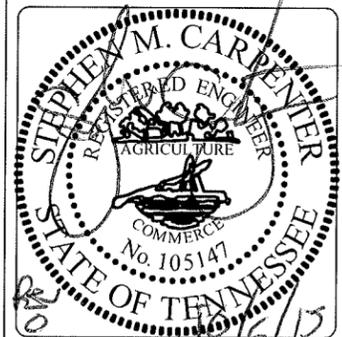
A&E PROJECT #: 20130967443

DRAWN BY: CAD

CHECKED BY: CTD

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08/27/15		PRELIMINARY REVIEW



PROJECT No. 20130967443

SITE NAME: CALGARY

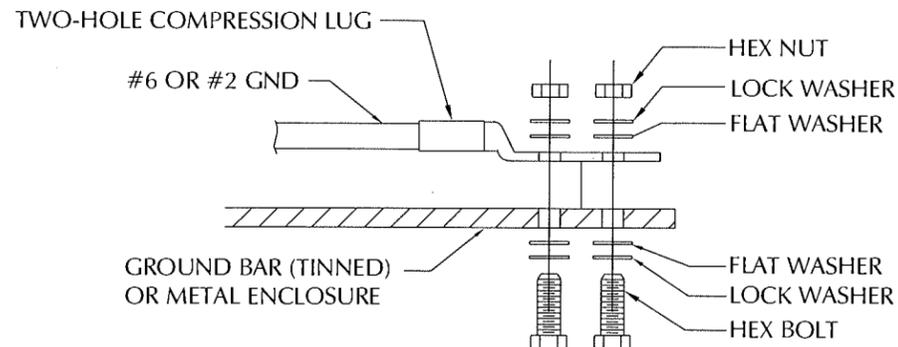
SITE NUMBER: 278286

SITE ADDRESS: REDFIELD DRIVE
MURFREESBORO, TN 37129

DESIGN TYPE: RAWLAND

SHEET TITLE: ELECTRICAL DETAILS

DRAWING NO. **E5** REVISION: **0**



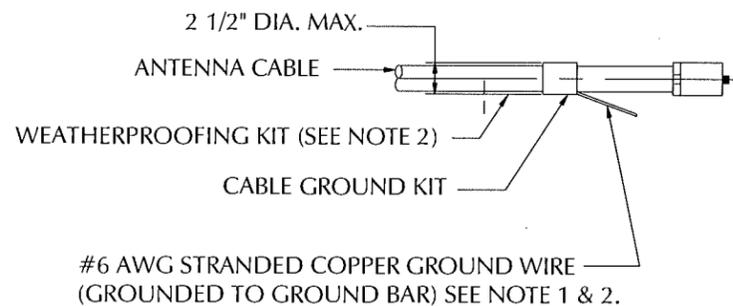
INSTALLATION NOTES:

1. BOLTS, WASHERS, AND NUTS SHALL BE STAINLESS STEEL.
2. SELECT BOLT LENGTH TO PROVIDE A MINIMUM OF TWO EXPOSED THREADS.
3. BURNISH MOUNTING SURFACE TO REMOVE PAINT IN THE AREA OF LUG CONTACT.
4. APPLY ANTI-OXIDANT COMPOUND TO MATING SURFACE OF LUG & WIPE CLEAN EXCESS COMPOUND.
5. USE 1/4" HARDWARE FOR ATTACHMENT TO METAL ENCLOSURES & 3/8" FOR ATTACHMENT TO GROUND BARS.
6. ALL BOLTS MUST HAVE AT LEAST 2 THREAD ENGAGEMENT.

GROUNDING CONNECTION TO GROUND BAR OR FLAT SURFACE

45
--

NTS



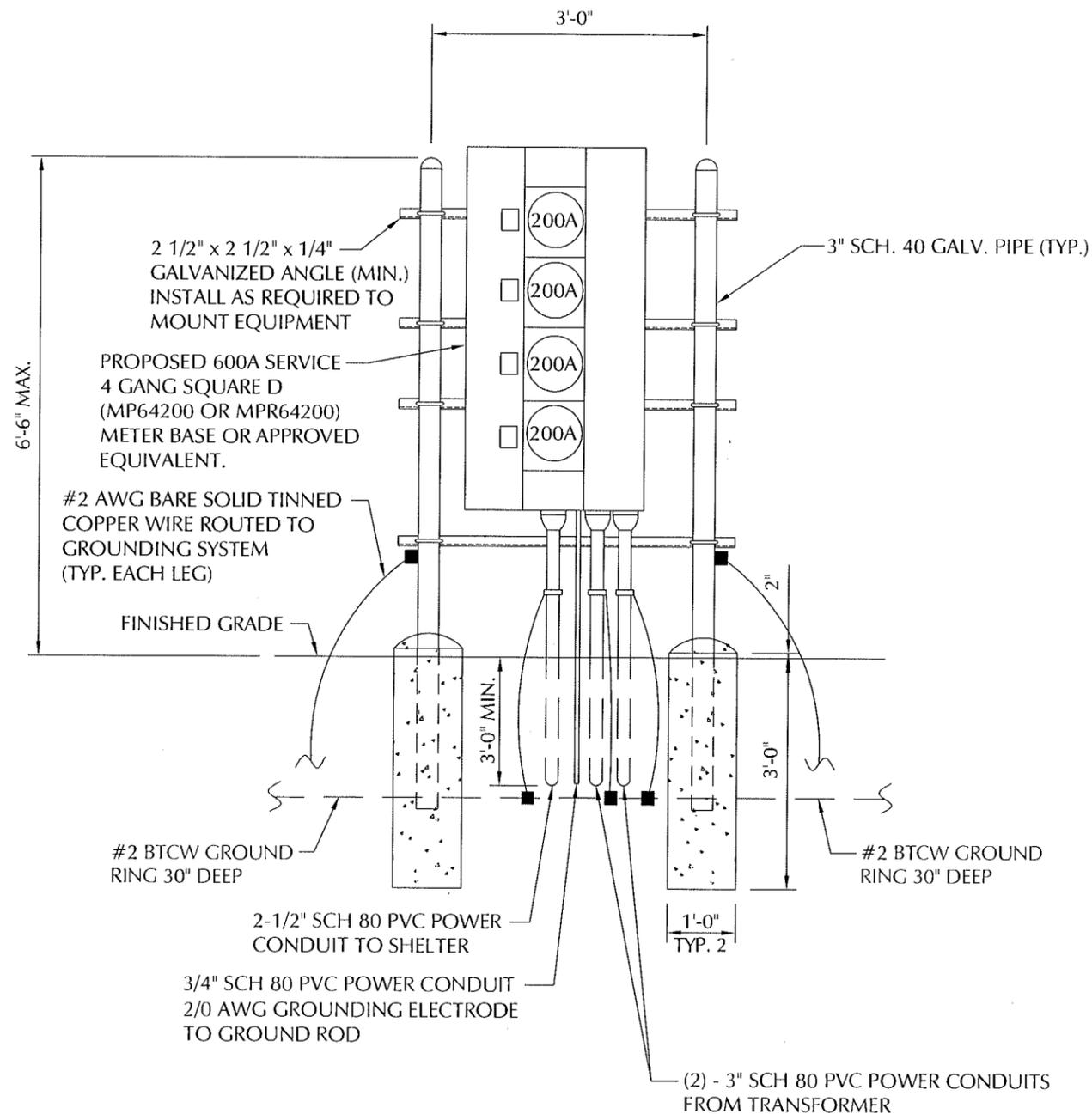
GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT AND WEATHER PROOFING KIT SHALL BE OF THE SAME TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

CONNECTION OF CABLE GROUND KIT TO ANTENNA CABLE

47
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NTS



UTILITY NOTE:

1. ALL POWER CONDUITS ABOVE GRADE TO BE RIGID GALVANIZED STEEL CONDUIT.
2. GC TO INSTALL BRASS NAMES PLATES VIA POP RIVETS ON ALL VERIZON ITEMS (HOFFMAN BOX, METER, BREAKER, ETC.)

METER CENTER DETAIL

50
E1A

NTS

CONTRACTOR TO GROUND ALL DEVICES TO EXTERIOR GROUND RING. CONTRACTOR TO REMOVE PAINT FOR CONTACT TO METAL SURFACES WHERE THEY MAKE CONTACT WITH TWO HOLE LUG. INSTALL AN ANTI-OXIDANT COMPOUND BETWEEN LUG AND METAL SURFACE (NOALOX, COPPER SHIELD OR EQUIVALENT). INSTALL #2 AWG BTCW IN 3/4" PVC AND SEAL TOP OF CONDUIT WITH CLEAR SILICONE. SECURE PVC PIPE TO RACK WITH 2-PIECE UNISTRUT PIPE CLAMP.

LESSEE



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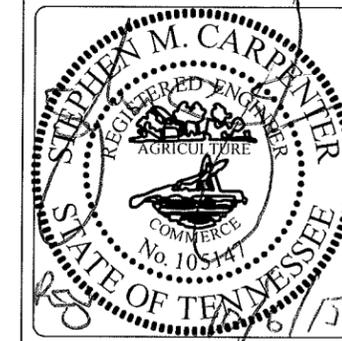
A&E PROJECT #: 20130967443

DRAWN BY: CAD

CHECKED BY: CTD

REVISIONS

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08/27/15		PRELIMINARY REVIEW



PROJECT No. 20130967443

SITE NAME: CALGARY

SITE NUMBER: 278286

SITE ADDRESS: REDFIELD DRIVE
MURFREESBORO, TN 37129

DESIGN TYPE: RAWLAND

SHEET TITLE: ELECTRICAL DETAILS

DRAWING NO. E6

REVISION: 0

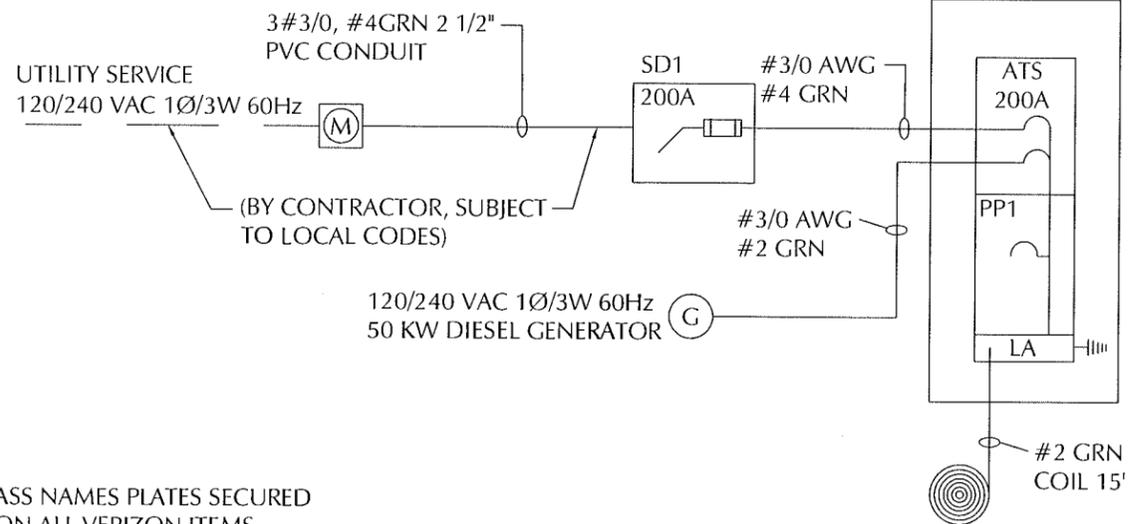
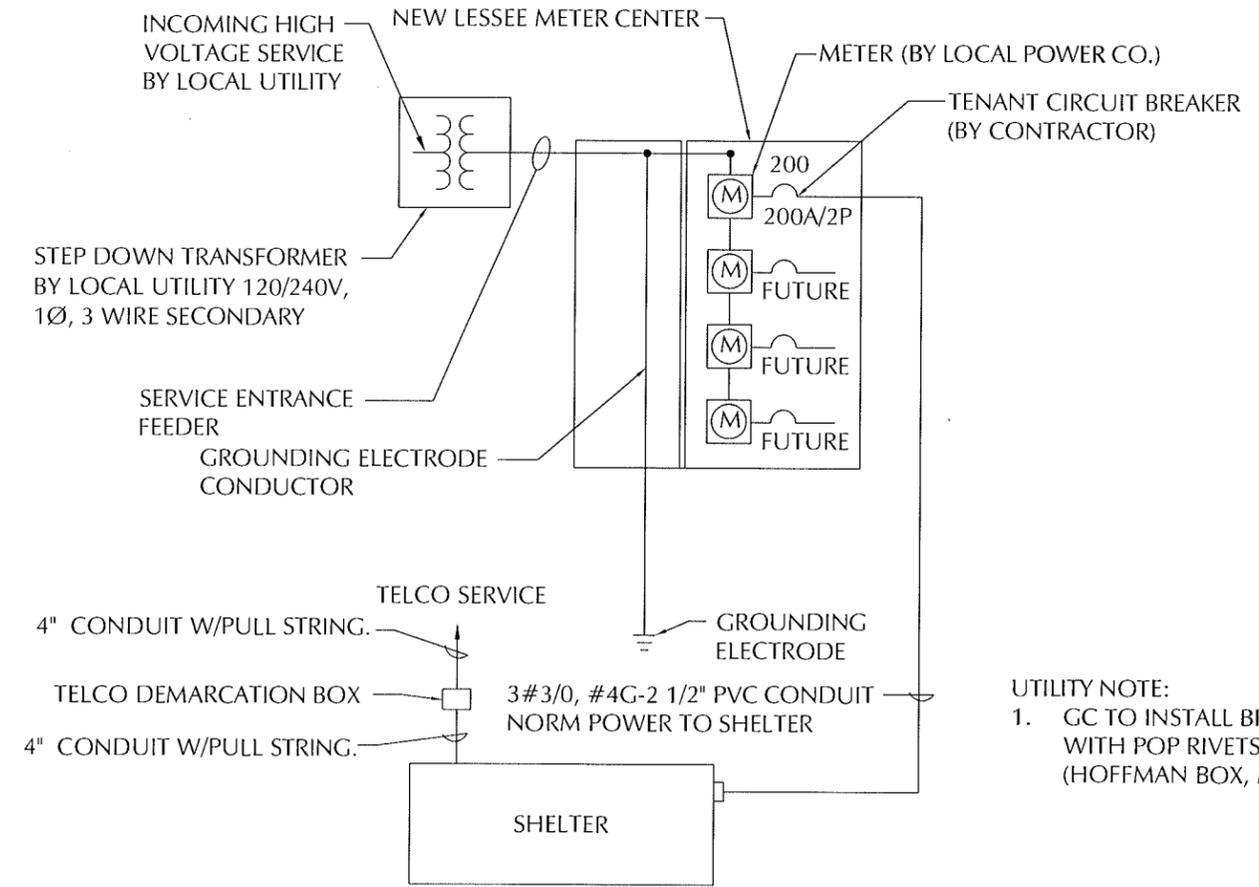
PP1 UTILITY 200A, 120/240VAC, 1Ø/3W, 60Hz, M.B.

LOAD	VOLT AMPS WATTS		WIRE	BREAKER		TRIP	P	TRIP	P	VOLT AMPS WATTS		LOAD
	A	B		A	B					A	B	
HVAC #1	4176	4176	8	2	50	1		2	50	2	8	HVAC #2
SCROLL FAN	120	4176	12	1	20	5		6	20	2	12	HEATER
LIGHTS		680	12	1	20	9		10	20	1	12	RECEPTACLES
RECTIFIER #1	1200		10	2	30	13		14	20	1	12	RECEPTACLES
RECTIFIER #2	1200	1200	10	2	30	17		18	20	1	12	RECEPTACLES
RECTIFIER #3	1200	1200	10	2	30	19		18	20	1	12	RECEPTACLES
RECTIFIER #4	1200	1200	10	2	30	21		22	30	2	10	RECTIFIER #5
RECTIFIER #5	1200	1200	10	2	30	23		24	20	1	20	RECTIFIER #6
RECTIFIER #6	1200	1200	10	2	30	25		26	30	2	10	RECTIFIER #6
GENERATOR BLOCK HEATER	180		12	1	20	27		28				SPACE
GEN BATTERY CHARGER	180		12	1	20	29		30				SPACE
TOWER LIGHTS						31		32				SPACE
SPACE						33		34				SPACE
SPACE						35		36				SPACE
SPACE						37		38				SPACE
SPACE						39		40				SPACE
SPACE						41		42				SPACE
VOLT AMPERES PER PHASE	8076	8564							10136		10136	VOLT AMPS PER PHASE
						18212		18700				TOTAL VOLT AMPS
						151.7		155.83				VOLT AMPS PER PHASE
						189.7		194.79				AMPS x 125%
						194.79						AMP FOR MAIN

	RED	WHT	RED	WHT
COMMERCIAL POWER FAIL	1			
EQUIP. RM. SMOKE/HEAT ALARM	2			
HVAC #1	3			
FAIL ALARM	4			
HVAC #2	5			
FAIL ALARM	6			
HIGH TEMP ALARM	7			
LOW TEMP. ALARM	8			
MAGNETIC DOOR ALARM EQUIP. ROOM	9			
MAGNETIC DOOR ALARM GEN. ROOM	10			
GEN. RM. SMOKE/HEAT ALARM	11			
	12			
	13			
	14			
	15			
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			

* ALARM WIRING (12 PAIR, 24 GAUGE) TO BE SHIELDED CABLE & GEL FILLED. CONNECT TO EQUIPMENT GROUND AT ONE END ONLY.

TERMINAL BOARD DETAIL



UTILITY NOTE:
1. GC TO INSTALL BRASS NAMES PLATES SECURED WITH POP RIVETS ON ALL VERIZON ITEMS (HOFFMAN BOX, METER BASE, DISCONNECT, ETC.)

POWER & TELCO SINGLE LINE DIAGRAM

51
E1

LESSEE

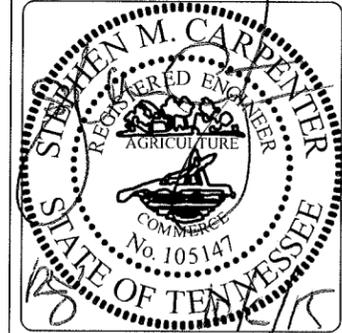


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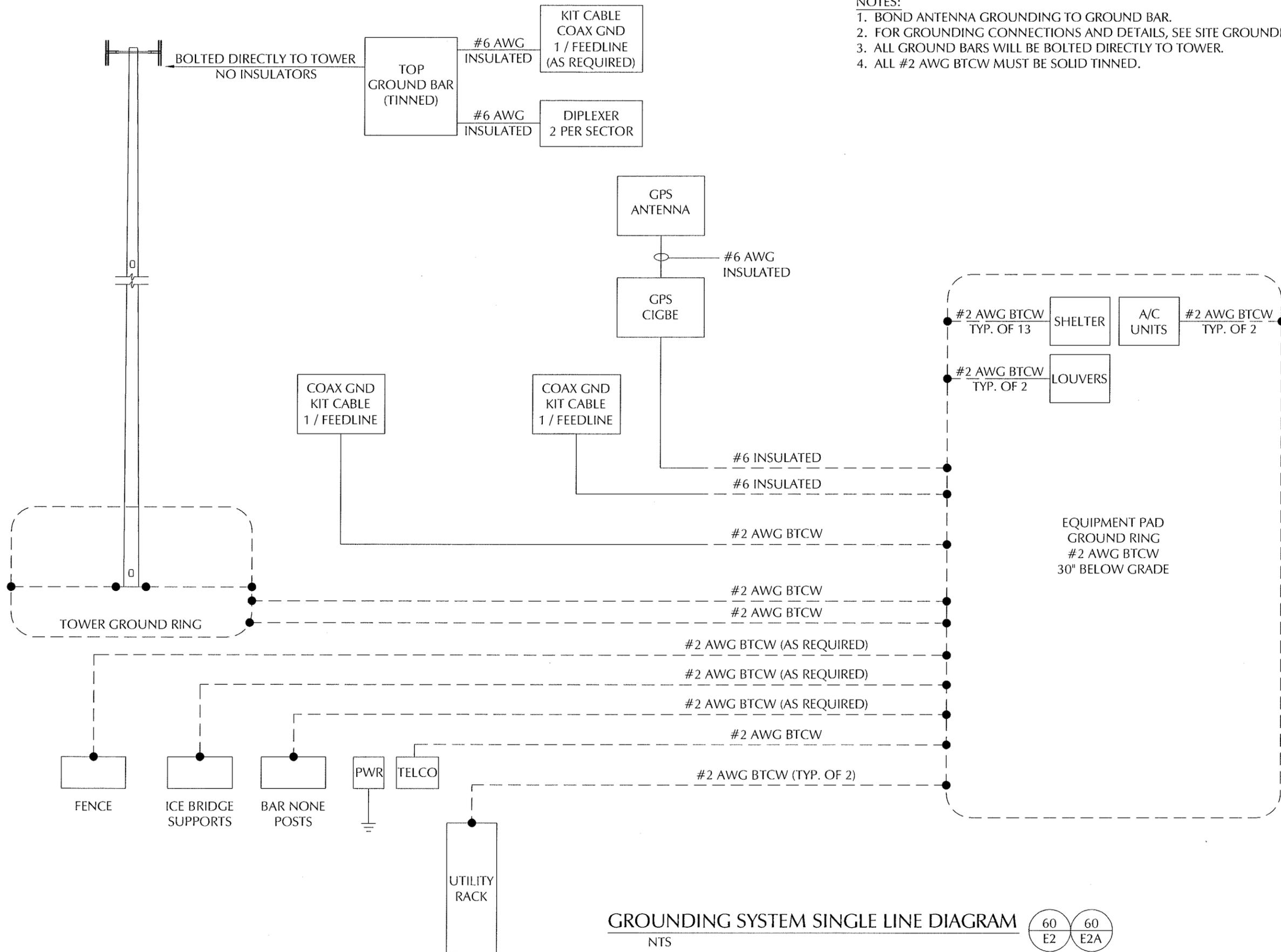
REVISIONS	
NO.	DESCRIPTION
10/06/15	CONSTRUCTION ISSUE
08/27/15	PRELIMINARY REVIEW



PROJECT No.	20130967443
SITE NAME:	CALGARY
SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
SINGLE LINE DIAGRAM

DRAWING NO.	REVISION:
E7	0



- NOTES:
1. BOND ANTENNA GROUNDING TO GROUND BAR.
 2. FOR GROUNDING CONNECTIONS AND DETAILS, SEE SITE GROUNDING PLAN.
 3. ALL GROUND BARS WILL BE BOLTED DIRECTLY TO TOWER.
 4. ALL #2 AWG BTCW MUST BE SOLID TINNED.

GROUNDING SYSTEM SINGLE LINE DIAGRAM
 NTS 60 60
E2 E2A

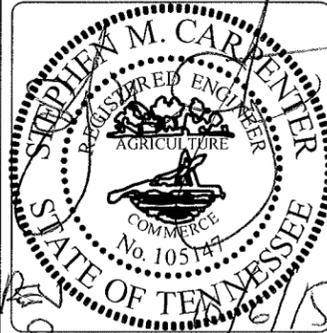
LESSEE

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08/27/15		PRELIMINARY REVIEW



PROJECT No.	20130967443
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SITE NUMBER:	278286
SITE ADDRESS:	REDFIELD DRIVE MURFREESBORO, TN 37129
DESIGN TYPE:	RAWLAND

SHEET TITLE:
GROUNDING SINGLE LINE

DRAWING NO.	REVISION:
E8	0