



**REVIEW BY FORT BEND COUNTY  
COMMISSIONERS COURT**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytx.gov

Right of Way Permit  
 Commercial Driveway Permit  
Permit No: 2016-10712

**Applicant:** Crown Castle NG General LLC/Shift Companies

**Job Location Site:** 5630 1/2 Grandwood Lane, Katy, TX 77450

**Bond No.**                      **Date of Bond:** 5/12/2014 **Amount:** \$50,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

**Notes:**

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 6th day of December, 2016, Upon Motion of Commissioner Meyers, seconded by Commissioner Prostap, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

**Signature**

By: Charles O. Ay  
for County Engineer

By: N/A  
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded 12-09-16 Comm. Court No. 16 J

Clerk of Commissioners Court  
By: Jinda Wilkins  
Deputy



**PERMIT APPLICATION REVIEW FORM FOR  
CABLE, CONDUIT, AND POLE LINE ACTIVITY  
IN FORT BEND COUNTY**

**Fort Bend County  
Engineering Department**  
301 Jackson Suite 401  
Richmond, Texas 77469  
281.633.7500  
Permits@fortbendcountytx.gov

- Right of Way Permit
- Commercial Driveway Permit

Permit No: 2016-10712

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

**(1) COMPLETE APPLICATION FORM:**

- a. Name of road, street, and/or drainage ditch affected.
- b. Vicinity map showing course of directions
- c. Plans and specifications

**(2) BOND:**

- County Attorney, approval when applicable.
- Perpetual bond currently posted.      Bond No: [REDACTED]      Amount: \$50,000.00
- Performance bond submitted.      Bond No: \_\_\_\_\_      Amount: \_\_\_\_\_
- Cashier's Check      Check No: \_\_\_\_\_      Amount: \_\_\_\_\_

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

\_\_\_\_\_  
Drainage District Approval

\_\_\_\_\_  
Date

**We have reviewed this project and agree it meets minimum requirements.**

*Charles O. Ay*

\_\_\_\_\_  
Permit Administrator

*11/29/16*

\_\_\_\_\_  
Date

# SHIFT

November 28, 2016

Carmen Escobar, CFM  
Permit Administrator  
Fort Bend County Engineering  
301 Jackson St, Richmond, TX 77469

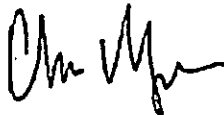
**RE: Cinco Ranch Traffic Control Plan  
- Shift Project #160614**

Carmen,

Per our conversation on the phone, the work we are doing in the ROW will not require any road closures. There is no TCP required, the contractor will take adequate measure to ensure they are not impeding the public way.

Please let me know if you need anything else.

Thank you,



Chris Myers  
Principal  
SHIFT Companies



**PROJECT NAME:** CINCO RANCH EXPANSION  
**PROJECT ADDRESS:** GRANDWOOD LN. AND GRAND BROOKS LN  
**PROJECT TYPE:** METAL SLIMLINE POLE  
**HUB AREA:** CINCO RANCH - HGCW  
**NODE #(s):** **CCR-31**  
**COORDINATES:** LAT: 29.712388, LONG: -95.75506

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**FORT BEND COUNTY ENGINEER**  
 ENGINEER: *Richard W. Stagle, PE, PEOE*  
 for Richard W. Stagle, P.E.  
 DATE: 11/11/16  
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.  
 APPROVED: *[Signature]*  
 Development Coordinator  
 DATE: 11/11/16

| TEAM MEMBER'S REVIEW     | REVIEWED/DATE |
|--------------------------|---------------|
| R.F. ENGINEERING         |               |
| PRODUCT MANAGEMENT       |               |
| NETWORK REAL ESTATE TEAM |               |
| UTILITY TEAM             |               |
| IMPLEMENTATION           |               |
| OPERATIONS               |               |



CROWN CASTLE  
 800 E. JOHN CARPENTER FVY  
 SUITE 800  
 IRVING, TX 75062

RECORD DRAWINGS (ISSUE DATE: 10/14/16)  
 RECORD DRAWINGS DRAFTING ONLY



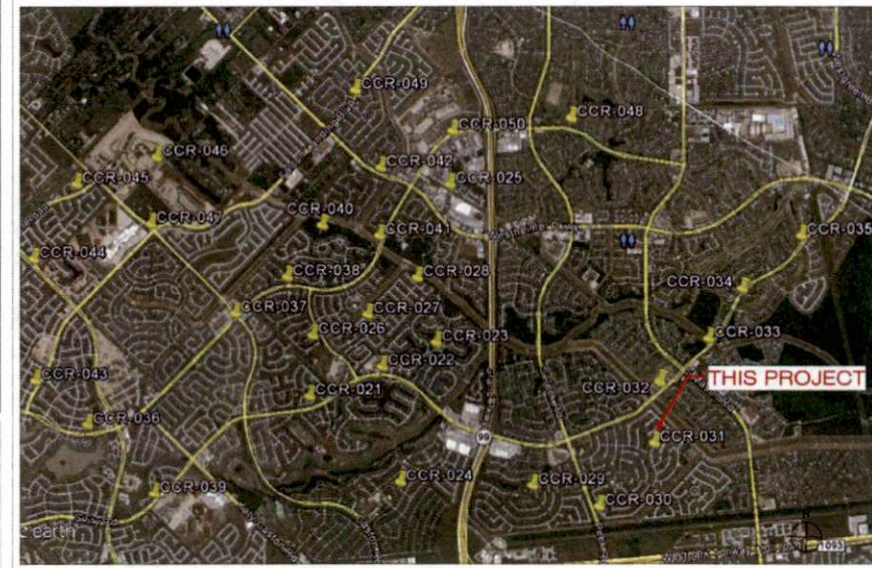
SHIFT Companies, LLC  
 1101 E. WISSE BOULEVARD  
 SCOTTSDALE, ARIZONA 85137  
 PH: 480.284.3600  
 FAX: 480.284.3603

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| PROJECT TEAM   |   |
|--|---|
| <b>ARCHITECT</b>   | <b>OWNER INFO</b>   |
| Company: SHIFT CONSULTING<br>Address: 7333 E. MONTE VISTA RD<br>SCOTTSDALE, AZ 85257<br>Phone Number: 480.294.0829<br>Fax Number: 480.264.0163<br>Contact: CHRIS MYERS | Company: CROWN CASTLE<br>Address: 1220 AUGUSTA DR<br>HOUSTON, TX 77057<br>Phone #: 817.449.3113<br>Email: BARRY.CAMP@CROWNCASTLE.COM<br>Contact: BARRY CAMP/PAU |
| <b>STRUCTURAL</b>  | <b>RF ENGINEER</b>  |
| Company: T.B.D.<br>Address:<br>Phone Number:<br>Fax Number:<br>Contact:  | Company: CROWN CASTLE<br>Address: 1220 AUGUSTA DR<br>HOUSTON, TX 77057<br>Phone Number:<br>Fax Number:<br>Contact:  |
| <b>FIBER ENGINEERING</b>   |   |
| Company: TDC2<br>Address: 710 EAST PARK BLVD.<br>SUITE 110<br>PLANO, TX 75074<br>Phone: 972.423.9080<br>Email: kurt@tdc2.com<br>Contact: SCOTT CRUM                    |   |

| PROJECT SUMMARY  |   |
|--|---|
| <b>PROJECT NAME:</b><br>CINCO RANCH EXPANSION  | <b>APPLICANT:</b><br>CROWN CASTLE<br>1220 AUGUSTA DR.<br>HOUSTON, TX 77057<br>CONTACT: BARRY CAMP/PAU   |
| <b>PROJECT AREA:</b><br>CINCO RANCH - HGCW   | <b>CODES:</b><br>2009 INTERNATIONAL BUILDING CODE (IBC)<br>2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)<br>2008 NATIONAL ELECTRICAL CODE (NEC)<br>2008 NATIONAL ELECTRICAL SAFETY CODE (NESC) |
| <b>JURISDICTION:</b><br>FORT BEND COUNTY ENGINEERING DEPT.<br>1124 BLUIME RD.<br>ROSENBERG, TX 77471<br>PH: 281.633.7500<br>CONTACT: JOHNNY ORTEGA | <b>PLUMBING REQUIREMENTS:</b><br>FACILITY HAS NO PLUMBING.  |
| <b>HANDICAPPED REQUIREMENTS:</b><br>-FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.<br>-HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED.      | <b>POWER COMPANY:</b><br>CENTERPOINT ENERGY<br>5431 HIGHWAY BLVD.<br>KATY, TX 77484<br>PH: 281.520.6275<br>CONTACT: KEN CORTEZ  |

NOTE: NOT ALL SITES ARE INCLUDED IN THIS SET. SEE NODE #S ABOVE FOR SITES THAT ARE IN THIS SET.



**PROJECT DESCRIPTION**  
 CROWN CASTLE PROPOSES TO PROVIDE AN ENHANCED RESIDENTIAL WIRELESS COMMUNICATIONS SYSTEM FOR THE KATY, TEXAS AREA. THE SYSTEM WILL IMPROVE CELLULAR COMMUNICATIONS AND INCREASE CALL CAPACITY. THE NETWORK AND ASSOCIATED EQUIPMENT HAVE BEEN DESIGNED TO MINIMIZE VISUAL IMPACTS IN URBAN SETTINGS. THE PROPOSED SYSTEM WILL PROVIDE A CELLULAR NETWORK THAT CAN BE UTILIZED SIMULTANEOUSLY BY DIFFERENT LICENSED TELECOMMUNICATIONS COMPANIES.  
 A SUBJECT NODE WILL CONSIST OF NEW METAL SLIMLINE POLE. THEY WILL HAVE GROUND MOUNTED RADIO EQUIPMENT INSIDE A CABINET WITH A METER AND DISCONNECT ATTACHED. THERE WILL ALSO BE POLE TOP ANTENNAS CONCEALED IN SHROUDS.

| RELEASE  |                    |
|----------|--------------------|
| DATE     | SUBMITTAL          |
| 8/23/16  | 1ST CITY SUBMITTAL |
| 10/18/16 | 2ND CITY SUBMITTAL |

| REVISIONS |          |               |
|-----------|----------|---------------|
| NO.       | DATE     | COMMENT       |
| 1         | 10/18/16 | CITY COMMENTS |

**PROJECT NAME**  
 CINCO RANCH EXPANSION

**NODE ADDRESS**  
 NODE #:**CCR-31**  
 GRANDWOOD LN. AND GRAND BROOKS LN

**HUB AREA**  
 CINCO RANCH - HGCW

**SHIFT JOB NUMBER** IN HOUSE  
 150602 DRAWN BY: RA  
 CHECKED BY: CM

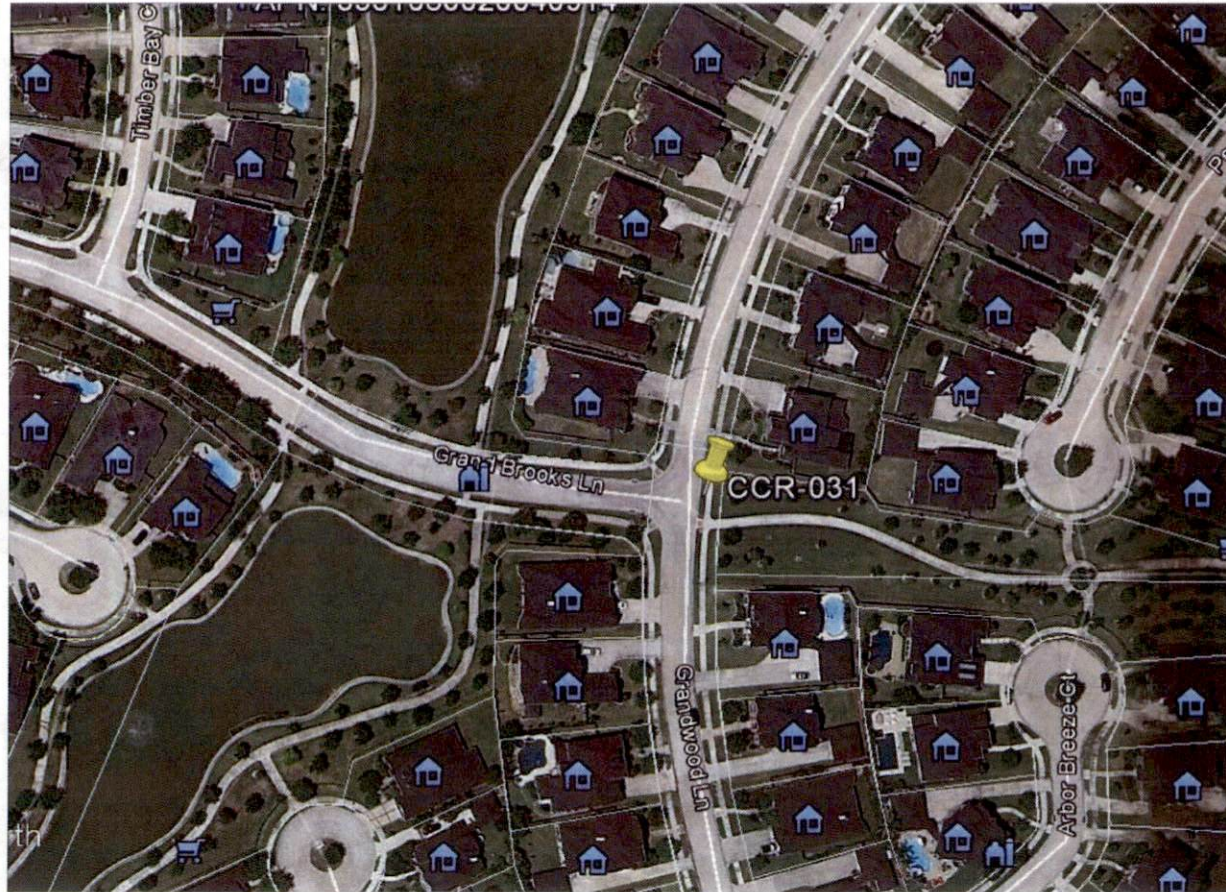
**SHEET TITLE**  
 TITLE SHEET

**SHEET NUMBER** PAGE  
 T1.1 1 OF 14

PLOT SCALE: 1" = 24'X30'; 1/2" = 11'X17'







NODE AERIAL PLAN

**SUBJECT POLE:** CCR-31

**GPS COORDINATES:**

**LAT:** 29.71294

**LONG:** -98.7026

**POLE TYPE:** METAL SLAB/UM POLE

**POLE D #:**

**UPPER ANTENNA RAD CENTER:** 32 - 0 A.F.G.

**LOWER ANTENNA RAD CENTER:** 30 - 0 A.F.G.

**APPROVED:** *[Signature]*  
Developers Coordinator

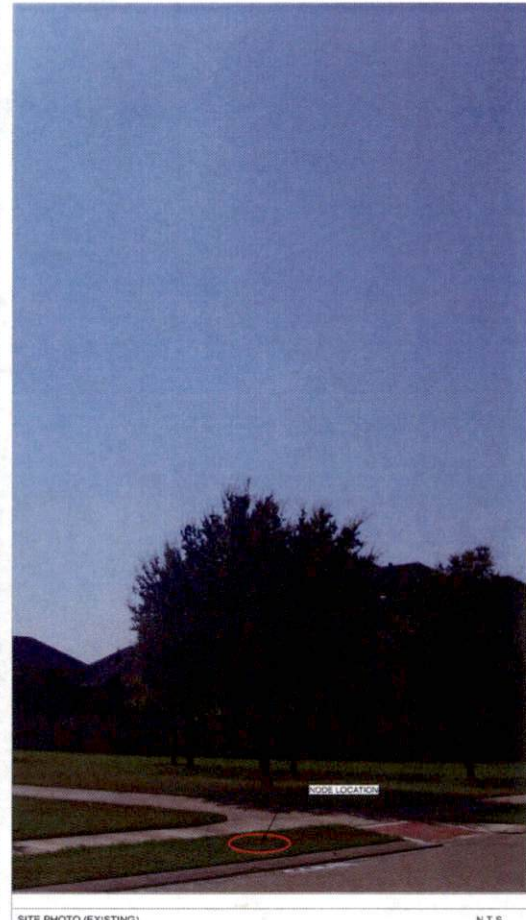
**DATE:** 11/11/16

**CROWN CASTLE**  
800 E. JOHN CARPENTER Fwy  
SUITE 300  
IRVING, TX 75062

RECORD DRAWING ISSUE DATE: 10/18/16

**SHIFT**  
Shift Companies, LLC  
2211 108th Street East  
Scottsdale, Arizona 85257  
971-982-2422  
TXL-901-261032

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SITE PHOTO (EXISTING)

N.T.S.

| RELEASE  |                    |
|----------|--------------------|
| DATE     | SUBMITTAL          |
| 8.03.16  | 1ST CITY SUBMITTAL |
| 12.18.16 | 2ND CITY SUBMITTAL |
|          |                    |
|          |                    |

| REVISIONS |          |               |
|-----------|----------|---------------|
| NO.       | DATE     | COMMENT       |
| 1         | 12.18.16 | CITY COMMENTS |
|           |          |               |
|           |          |               |

**PROJECT NAME**  
CINCO RANCH EXPANSION

**NODE ADDRESS**  
NODE #:CCR-31  
GRANDWOOD LN. AND  
GRAND BROOKS LN

**HUB AREA**  
CINCO RANCH - HGCW

|                                   |   |
|-----------------------------------|---|
| <b>SHIFT JOB NUMBER</b><br>150602 | <b>IN HOUSE</b><br>DRAWN BY: RA<br>CHECKED BY: CM |
|-----------------------------------|---|

**SHEET TITLE**  
AERIAL

| SHEET NUMBER | PAGE    |
|--------------|---------|
| A1.0         | 4 OF 14 |

**PLOT SCALE:** 1" = 24'x36', 1:2 = 11'x17'

PLAN CHECK #

CASE #

| KEYNOTE | KEYNOTE LEGEND DESCRIPTION  | DETAIL  |
|---------|---|---------|
| AD1     | PROPOSED CROWN CASTLE GMR ANTENNA                                 | 16-D1.1 |
| AD2     | PROPOSED CROWN CASTLE 2" U.G. CONDUIT (APPROXIMATE LOCATION F.V.) | 2-D1.1  |
| AD3     | PROPOSED CROWN CASTLE REMOTE RADIO UNIT INSIDE EQUIPMENT CABINET  | 16-D1.1 |
| AD4     | PROPOSED NEW METAL SLIMLINE POLE                                  | 30-D1.1 |
| AD5     | PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER WALL                | 5-D1.2  |
| AD6     | PROPOSED CROWN CASTLE NODE IDENTIFICATION SIGNAL                  | 10-D1.2 |
| AD7     | PROPOSED CROWN CASTLE EQUIPMENT CABINET                           | 18-D1.1 |
| AD8     | PROPOSED CROWN CASTLE PIER FOUNDATION                             | 2-D1.1  |
| AD9     | PROPOSED ELECTRICAL HANG HOLE                                     |         |

| KEYNOTE | KEYNOTE LEGEND DESCRIPTION   | DETAIL         |
|---------|--|----------------|
| ED1     | PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (DISTRIBUTED PANEL AND DISCONNECT) | 18-D1.1        |
| UD1     | PROPOSED 2" CROWN CASTLE U.G. POWER CONDUIT (APPROXIMATE LOCATION F.V.)              | AD1.1 & 5-D1.2 |
| UD2     | PROPOSED CROWN CASTLE 2" U.G. FIBER CONDUIT BY OTHERS (APPROXIMATE LOCATION F.V.)    | AD1.1 & 5-D1.2 |



NOTES:  
 1. ANY DAMAGE TO EXISTING UTILITY CURB, SIDEWALK AND ROADWAY DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.  
 2. EXISTING VEGETATION DAMAGED BY CONSTRUCTION TO BE REPLACED BY SAME SPECIES.

**GENERAL NOTES**

1. PAINT PROPOSED GROUND EQUIPMENT A NATURAL EARTH COLOR OR AS APPROVED BY CITY.
2. CONTRACTOR TO FIELD LOCATE EXIST' UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. EX' LANDSCAPE PLANTINGS AND DECORATIVE HANDBRACES, DISTURBED OR DESTROYED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED WITH A LIKE SIZE AND SPECIE.
4. CONTRACTOR TO HAND LOCATE EX' IRRIGATION PRIOR TO EXCAVATION.
5. SITE PLAN IS A DIAGNOSTIC REPRESENTATION ONLY. VERIFY ALL DIMENSIONS.
6. VERIFY ALL PROPERTY LINE INFORMATION WITH AVAILABLE P.O.W. DATA.
7. EXIST' UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY (AS PROVIDED BY LOCAL UTILITIES).

**SUBJECT POLE:** CCR-31

**GPS COORDINATES:**

**LAT:** 30.710386

**LONG:** 95.713031

POLE TYPE: METAL SLIMLINE POLE  
 POLE ID #:  
 UPPER ANTENNA RAD CENTER: 32'-0" A.F.G.  
 LOWER ANTENNA RAD CENTER: 30'-0" A.F.G.  
 SUBJECT POLE IS LOCATED IN: FORT BEND COUNTY R.O.W.

APPROVED: *[Signature]*  
 DATE: 11/11/16  
 Development Coordinator



CROWN CASTLE  
 800 E. JOHN CARPENTER Fwy.  
 SUITE 300  
 IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10-18-16



Shift Companies, LLC  
 10111 100th Street, Suite 200  
 Scottsdale, Arizona 85257  
 Tel: 480.344.9005  
 Fax: 480.344.9103

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| RELEASE  |                    |
|----------|--------------------|
| DATE     | SUBMITTAL          |
| 8-23-16  | 1ST CITY SUBMITTAL |
| 10-18-16 | 2ND CITY SUBMITTAL |

| REVISIONS |          |               |
|-----------|----------|---------------|
| NO.       | DATE     | COMMENT       |
| 1         | 10-18-16 | CITY COMMENTS |

PROJECT NAME  
**CINCO RANCH EXPANSION**

NODE ADDRESS  
**NODE #:CCR-31**

**GRANDWOOD LN. AND GRAND BROOKS LN**

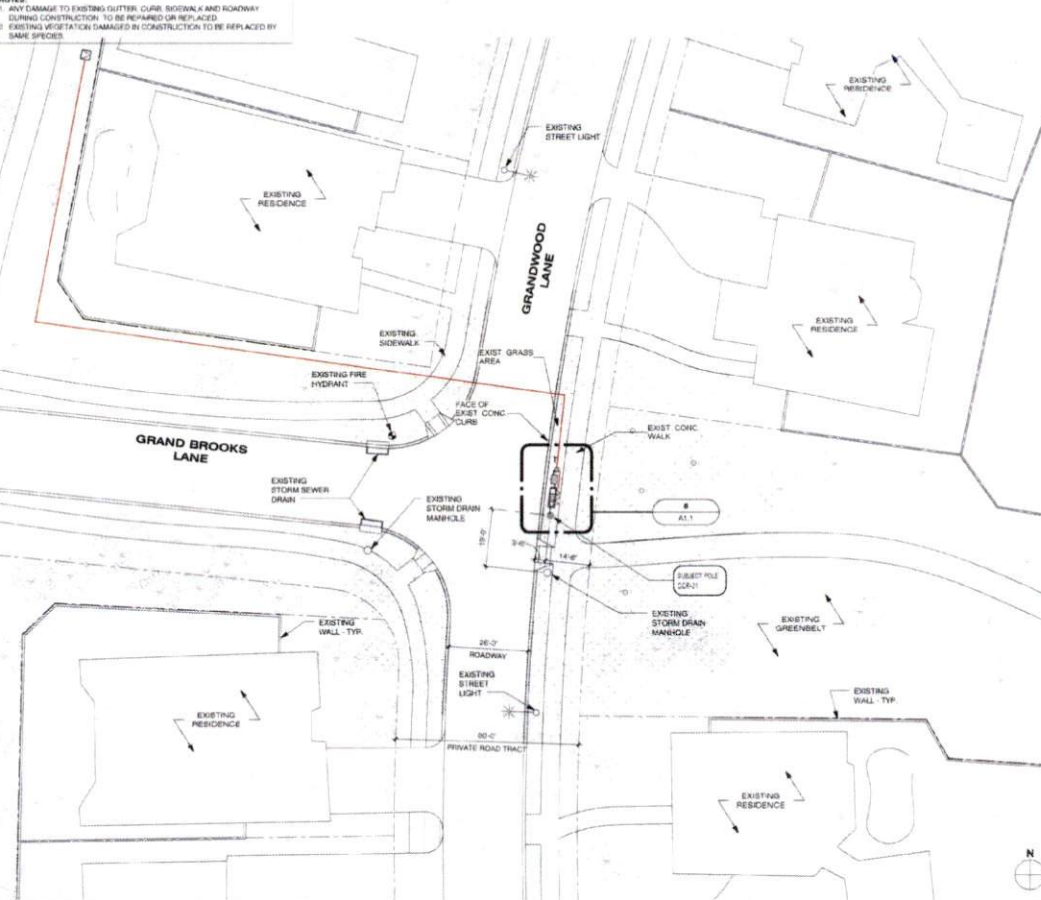
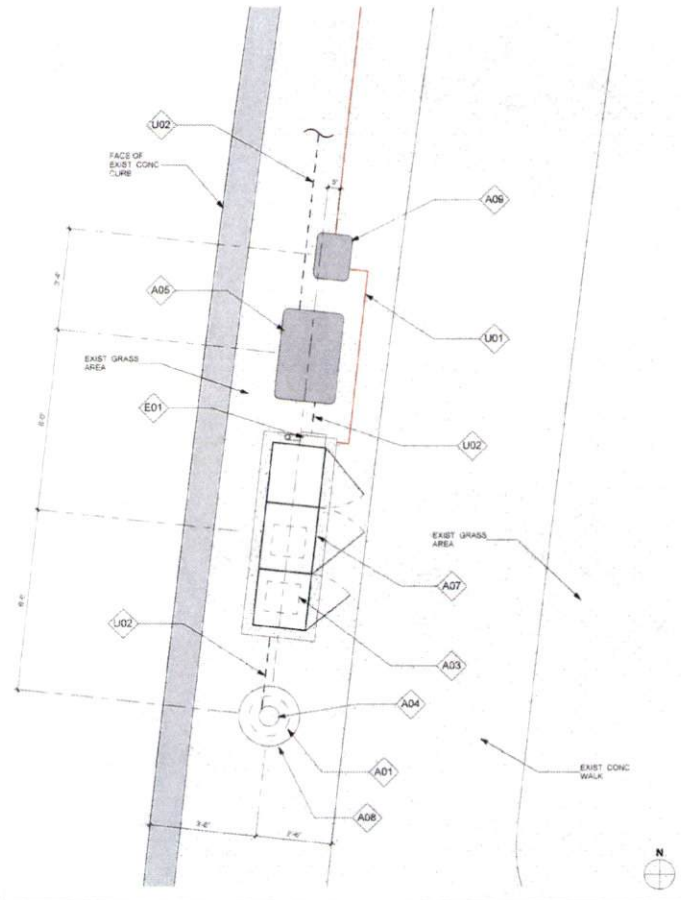
HUB AREA  
**CINCO RANCH - HGCV**

SHIFT JOB NUMBER: 150602  
 IN HOUSE: RA  
 DRAWN BY: RA  
 CHECKED BY: CM

SHEET TITLE  
**SITE PLAN, EQUIPMENT AND ANTENNA PLAN**

SHEET NUMBER: A1.1  
 PAGE: 5 OF 14

PLOT SCALE: 1"1/8" = 24'-0"; 1"2" = 11'3"17"



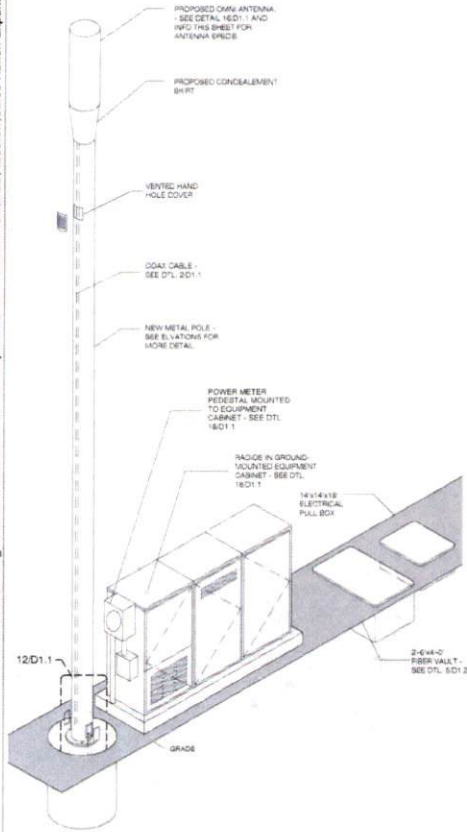
EQUIPMENT AND ANTENNA PLAN

1/2" = 1'-0" 8 OVERALL SITE PLAN

1" = 20'-0" 20

PLAN CHECK #

NOTE:  
ISO IS SCHEMATIC IN NATURE. FIBER VAULT, POWER METER PEDESTAL  
AND GROUND-MOUNTED RADIO EQUIPMENT PEDESTAL CAN BE  
RECONFIGURED TO SUIT PROJECT LOCATION



METAL POLE ISOMETRIC

SCALE: SCALE: N T S 4

| KEYNOTE LEGEND |   |               |
|----------------|---|---------------|
| KEYNOTE        | DESCRIPTION   | DETAIL NUMBER |
| A01            | PROPOSED CROWN CASTLE OMNI ANTENNA  | 16D1.1        |
| A02            | PROPOSED CROWN CASTLE P U/G CONDUIT (APPROXIMATE LOCATION P U/G)                      | 2D1.1         |
| A03            | PROPOSED CROWN CASTLE REMOTE RADIO UNITS INSIDE EQUIPMENT CABINET                     | 16D1.1        |
| A04            | PROPOSED NEW METAL SUBLINE POLE   | 20D1.1        |
| A05            | PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER VAULT                                   | 5D1.2         |
| A06            | PROPOSED CROWN CASTLE NODE IDENTIFICATION SIGNAGE                                     | 20D1.3        |
| A07            | PROPOSED CROWN CASTLE EQUIPMENT CABINET   | 16D1.1        |
| A08            | PROPOSED CROWN CASTLE POLE FOUNDATION   | 12D1.1        |
| A09            | PROPOSED ELECTRICAL HAND HOLE   |               |
| E01            | PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (FOR TRIBUTED PANEL AND DISCONNECT) | 16D1.1        |

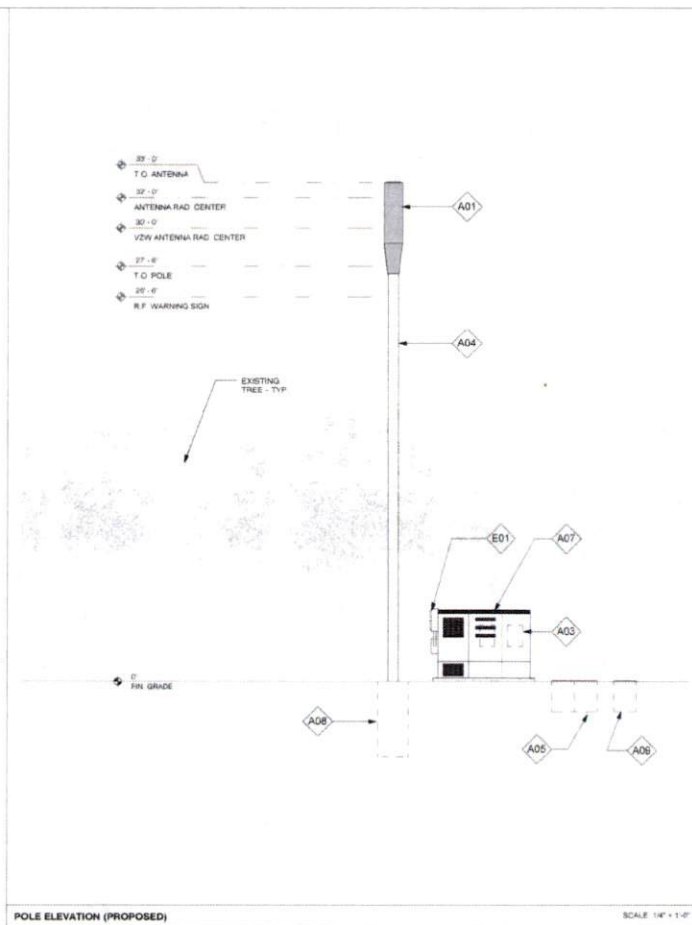
MODEL: AMBERROL - 2CUT02X12F44C  
LENGTH: 48'  
WIDTH: 14.5' DIA  
DEPTH: NA  
WEIGHT: 35.1 LBS

PROPOSED PANEL ANTENNA SPECS

PROPOSED POLE WIDTH = 6"Ø  
PROPOSED POLE HEIGHT = 27' - 0"  
14-4/8" ANTENNA AND 1-8" ANTENNA MOUNT

POLE INFO

APPROVED: *[Signature]*  
Development Coordinator  
DATE: 11/1/16



POLE ELEVATION (PROPOSED)

SCALE: 1/4" = 1'-0" 20



CROWN CASTLE  
600 E. JOHN CARPENTER FWY  
SUITE 300  
IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 01/18/16



Shift Companies, LLC  
17111 19TH AVENUE EAST  
SCOTTSDALE, ARIZONA 85257  
PH: 480.354.8829  
FAX: 480.354.8823

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| RELEASE  |                    |
|----------|--------------------|
| DATE     | SUBMITTAL          |
| 03.23.16 | 1ST CITY SUBMITTAL |
| 10.18.16 | 2ND CITY SUBMITTAL |

| REVISIONS |          |               |
|-----------|----------|---------------|
| NO.       | DATE     | COMMENT       |
| 10        | 10.18.16 | CITY COMMENTS |

PROJECT NAME  
**CINCO RANCH EXPANSION**

NODE ADDRESS  
**NODE #CCR-31**

GRANDWOOD LN. AND GRAND BROOKS LN

HUB AREA  
**CINCO RANCH - HGCW**

SHIFT JOB NUMBER: 150602  
IN HOUSE: [ ]  
DRAWN BY: SA  
CHECKED BY: CM

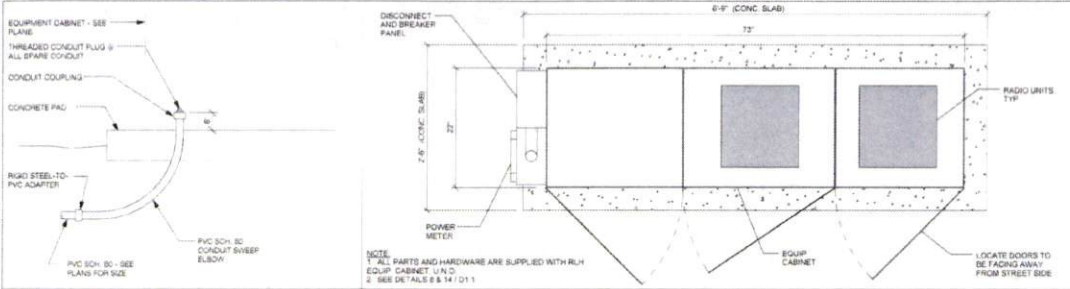
SHEET TITLE  
**POLE ELEVATION, PROPOSED**

SHEET NUMBER: A1.2  
PAGE: 6 OF 14

PLOT SCALE: 1/1" @ 24"x36" 1/2" @ 11"x17"

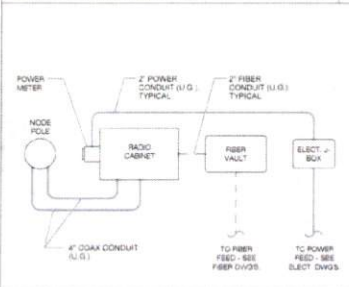
C:\Users\runbe\_000\Documents\AAA - Shift Companies\AAA - Crown Castle\Houston Cinco Ranch Expansion - Detail Sheets - 12.14.16.rvt

10/17/2016 3:26:55 PM

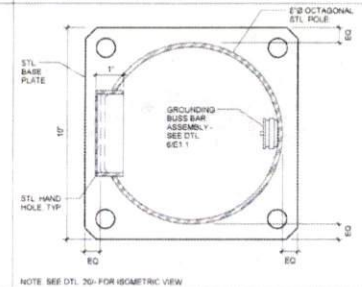


EQUIPMENT CABINET STUB UP DETL SCALE: N.T.S. 1

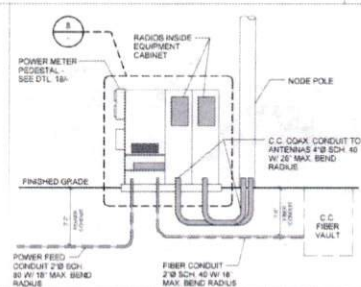
METER / BBU / RADIO EQUIPMENT CABINET PLAN SCALE: N.T.S. 3



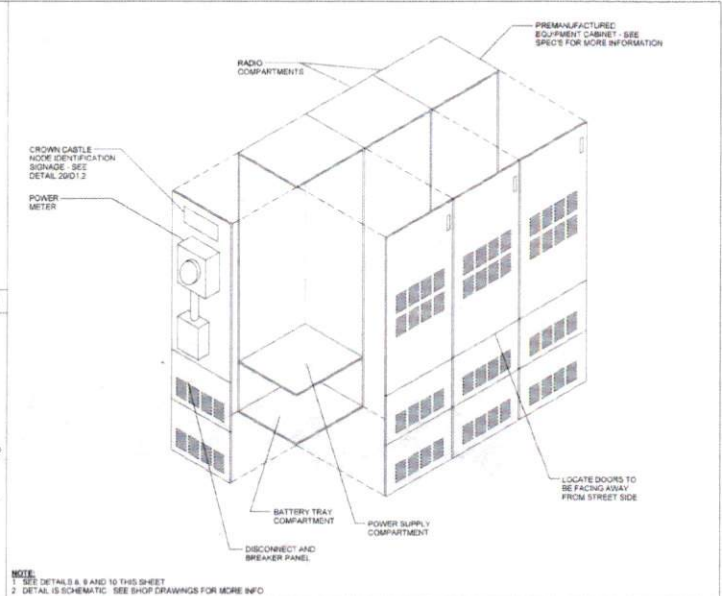
CONDUIT ROUTE SCALE: N.T.S. 2



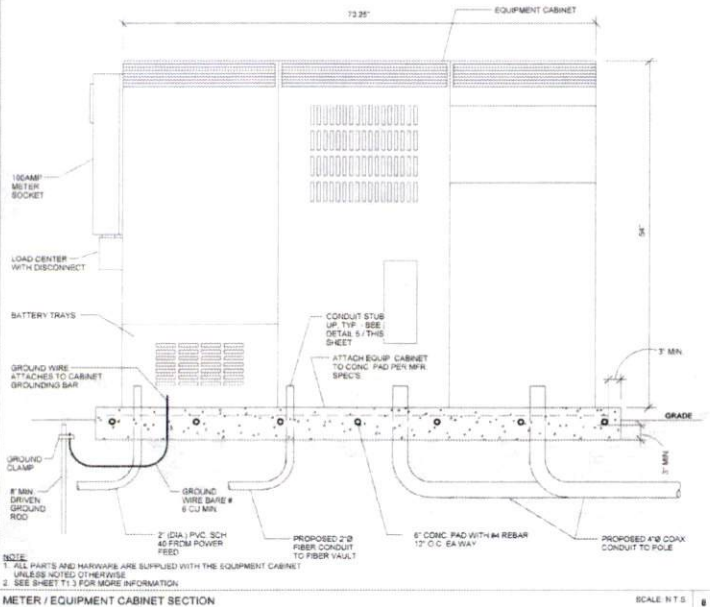
PLAN VIEW @ POLE SCALE: N.T.S. 4



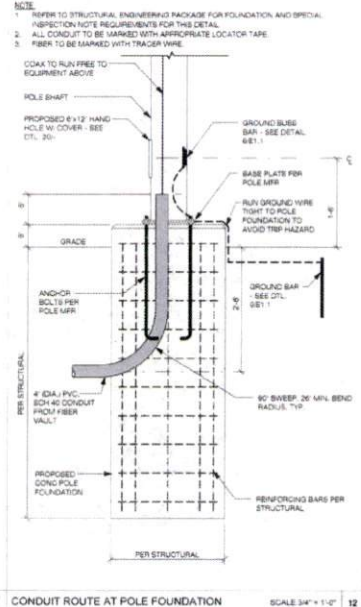
CONDUIT AND POWER RISER DIAGRAM SCALE: N.T.S. 5



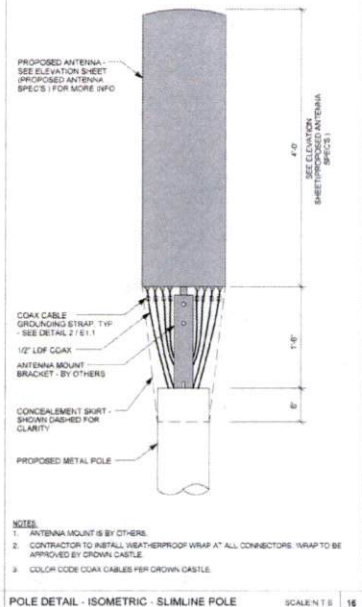
EQUIPMENT CABINET WITH METER ISOMETRIC SCALE: N.T.S. 6



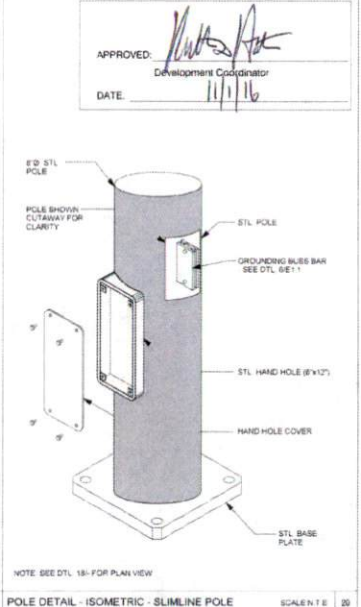
METER / EQUIPMENT CABINET SECTION SCALE: N.T.S. 7



CONDUIT ROUTE AT POLE FOUNDATION SCALE: 3/4" = 1'-0" 8



POLE DETAIL - ISOMETRIC - SLIMLINE POLE SCALE: N.T.S. 9



POLE DETAIL - ISOMETRIC - SLIMLINE POLE SCALE: N.T.S. 10



CROWN CASTLE  
600 E. JOHN CARPENTER Pkwy.  
SUITE 300  
IRVING, TX 75062

RECORD DRAWING ISSUE DATE: 10/14/16



Shift Companies, LLC  
7001 F. NORTH WETA ROAD  
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| REVISIONS |      |         |
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PROJECT NAME  
**CINCO RANCH EXPANSION**

HUB AREA  
**CINCO RANCH - HGCW**

SHIFT JOB NUMBER **150602** IN HOUSE  
DRAWN BY: SA  
CHECKED BY: CM

SHEET TITLE  
**CONSTRUCTION DETAILS**

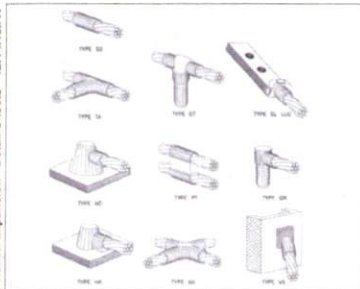
| SHEET NUMBER | PAGE    |
|--------------|---------|
| D1.1         | 7 OF 14 |

PLOT SCALE: 1:1 @ 24"X36", 1:2 @ 11"X17"

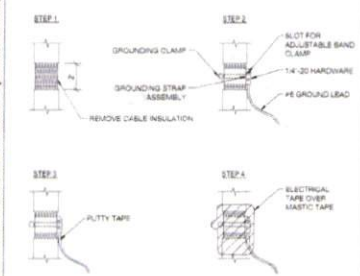
PLAN CHECK # \_\_\_\_\_ CASE # \_\_\_\_\_



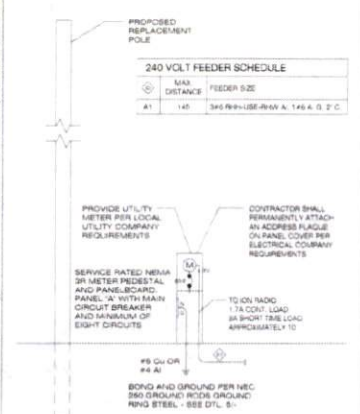




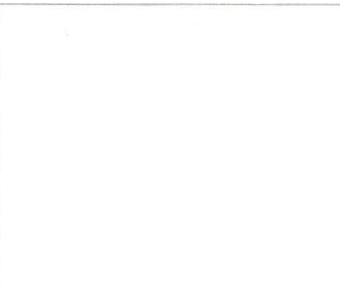
CADWELD DETAILS SCALE: 1/8"



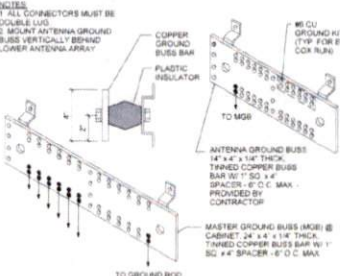
GROUND BUSH BAR DETAIL SCALE: NTS



ONE-LINE DIAGRAM SCALE: NTS



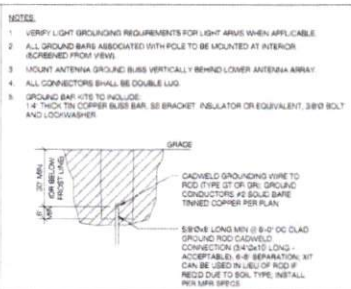
GROUND ROD DETAIL SCALE: NTS



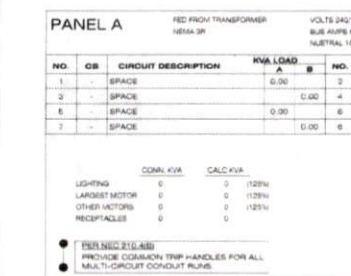
ELECTRICAL PANEL SCHEDULES SCALE: NTS



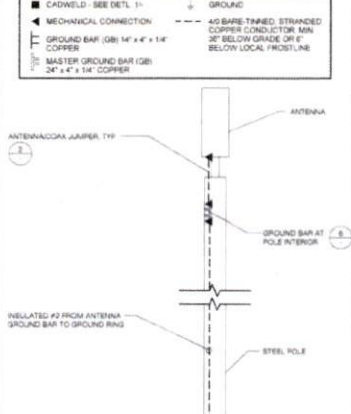
GROUNDING SCHEMATIC - METAL POLE SCALE: NTS



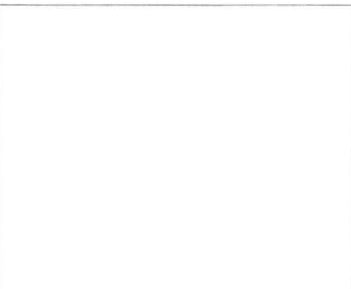
EQUIPMENT GROUNDING SCHEMATIC DTL SCALE: NTS



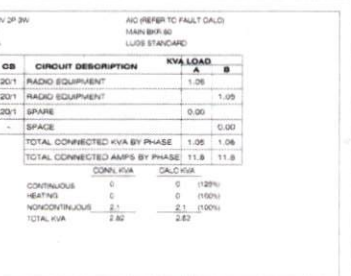
POWER FEEDER SCHEDULE SCALE: NTS



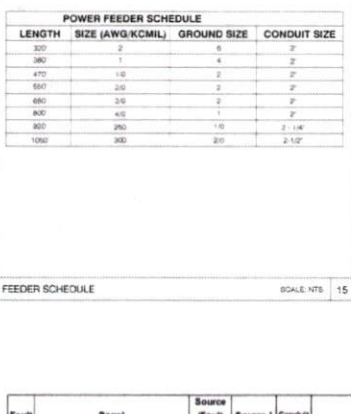
FAULT CURRENT CALCULATION SCALE: NTS



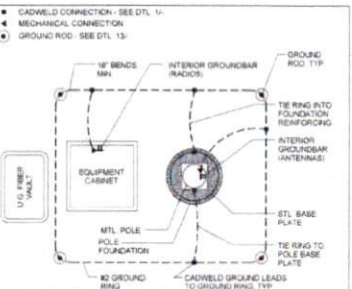
GROUNDING SCHEMATIC - METAL POLE SCALE: NTS



ELECTRICAL NOTES SCALE: NTS



FEEDER SCHEDULE SCALE: NTS



EQUIPMENT GROUNDING SCHEMATIC DTL SCALE: NTS



ELECTRICAL NOTES SCALE: NTS



FEEDER SCHEDULE SCALE: NTS



CROWN CASTLE  
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RECORD DRAWINGS ISSUE DATE: 10/18/16



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PH: 281.384.2025  
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| 10/18/16 | 2ND CITY SUBMITTAL |

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|-----|----------|---------------|
| 15  | 10/18/16 | CITY COMMENTS |

PROJECT NAME  
**CINCO RANCH EXPANSION**

HUB AREA  
**CINCO RANCH - HGCW**

SHIFT JOB NUMBER **150602** IN HOUSE  
DRAWN BY: BA  
CHECKED BY: CM

SHIFT TITLE  
**ELECTRICAL DETAILS**

SHEET NUMBER **E.1.1** PAGE **10 OF 14**

PLOT SCALE: 1:1 @ 24x36; 1:2 @ 11x17

PLAN CHECK #

CASE