



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

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

- Right of Way Permit**
- Commercial Driveway Permit**

Permit No: 2016-10740

Applicant: Crown Castle NG Central LLC/Shift Companies

Job Location Site: 2710 1/2 Falcon Landing Boulevard, Katy, TX 77494

Bond No. [REDACTED] **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 13th day of December, 2016, Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, 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

Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded 12-21-16 Comm. Court No. 13G

By: N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court
By: Amanda Walters
Deputy

SHIFT

November 28, 2016

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

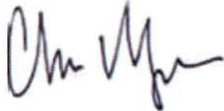
**RE: Cinco Ranch Traffic Control Plan
- Shift Project #160614**

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: FALCON LANDING BLVD AND FOREST CANYON LN
PROJECT TYPE: METAL SLIMLINE POLE
HUB AREA: CINCO RANCH - HGCW
NODE #(s): **CCR-49**
COORDINATES: LAT: 29.746875, LONG: -95.788283

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FORT BEND COUNTY ENGINEER

ENGINEER: *Richard D. Stangle, P.E., P.P.O.E.*
 FOR: Richard W. Stone, P.E.
 DATE: 11/1/16
 THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED WITHIN (1) YEAR FROM DATE OF APPROVAL.
 APPROVED: *[Signature]*
 Development Coordinator
 DATE: 11/1/16

TEAM MEMBERS REVIEW	REVIEWED/DATE
R.F. ENGINEERING	
PRODUCT MANAGEMENT	
NETWORK REAL ESTATE TEAM	
UTILITY TEAM	
IMPLEMENTATION	
OPERATIONS	



CROWN CASTLE
 800 E. JOHN CARPENTER Pkwy
 SUITE 200
 IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/18/16

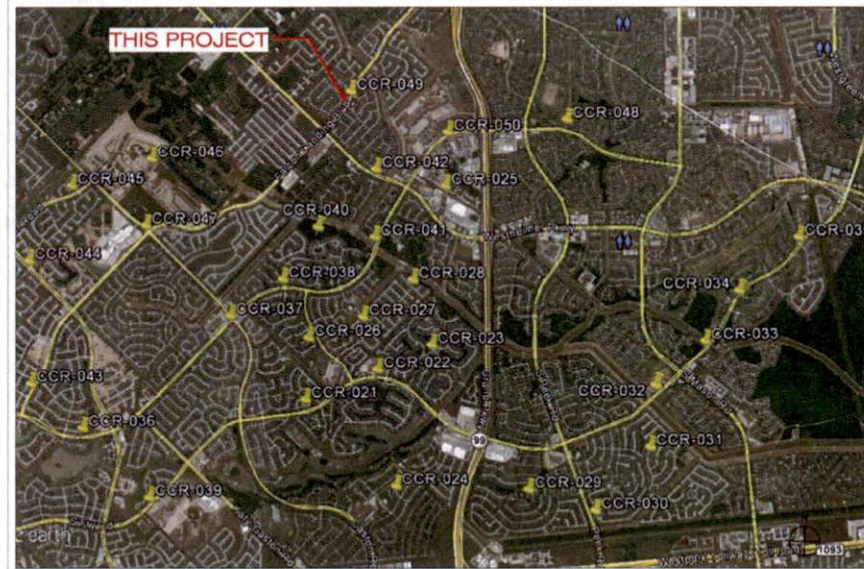


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PROJECT TEAM	
ARCHITECT: Company: SHIFT CONSULTING Address: 7333 E MONTE VISTA RD SCOTTSDALE, AZ 85267 Phone Number: 480.264.0829 Fax Number: 480.264.0163 Contact: CHRIS MYERS	OWNER INFO: Company: CROWN CASTLE Address: 1220 AUGUSTA DR HOUSTON, TX 77057 Phone #: 917.448.3113 Email: BARRY.CAMPALU@CROWNCASTLE.COM Contact: BARRY CAMPALU
STRUCTURAL: Company: T & D Address: Phone Number: Fax Number: Contact:	RF ENGINEER: Company: CROWN CASTLE Address: 1220 AUGUSTA DR HOUSTON, TX 77057 Phone Number: Fax Number: Contact:
FIBER ENGINEERING: Company: TDC2 Address: 710 EAST PARK BLVD. SUITE 110 PLANO, TX 75074 Phone: 972.423.9080 Email: scott@tdc2.com Contact: SCOTT CRUM	

PROJECT SUMMARY	
PROJECT NAME: CINCO RANCH EXPANSION PROJECT AREA: CINCO RANCH - HGCW	APPLICANT: CROWN CASTLE 1220 AUGUSTA DR HOUSTON, TX 77057 CONTACT: BARRY CAMPALU CODES: 2009 INTERNATIONAL BUILDING CODE (IBC) 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2008 NATIONAL ELECTRICAL CODE (NEC) 2008 NATIONAL ELECTRICAL SAFETY CODE (NEISC) PLUMBING REQUIREMENTS: FACILITY HAS NO PLUMBING. HANDICAPPED REQUIREMENTS: - FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. - HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED.
JURISDICTION: FORT BEND COUNTY ENGINEERING DEPT. 1124 BLUME RD. ROSENBERG, TX 77471 PH: 281.633.7500 CONTACT: JOHNNY ORTEGA	POWER COMPANY: CENTERPOINT ENERGY 5431 HIGHWAY BLVD. KATY, TX 77494 PH: 281.520.6275 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 SHROUDES.

RELEASE	
DATE	SUBMITTAL
6/13/14	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
 CINCO RANCH - HGCW

NODE #:CCR-49
 FALCON LANDING BLVD
 AND FOREST CANYON
 LN

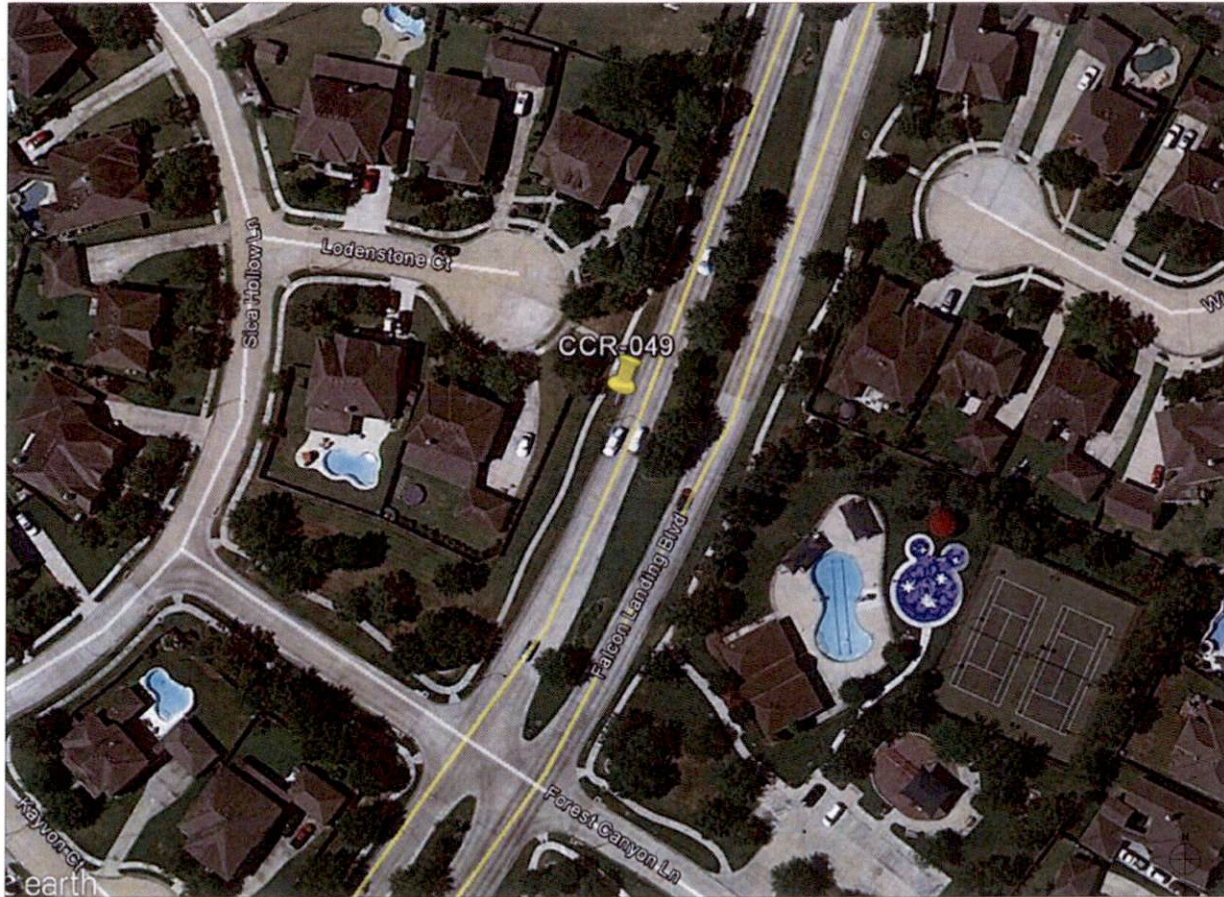
HUB AREA
 CINCO RANCH - HGCW

SHIFT JOB NUMBER 150802
IN HOUSE DRAWN BY: JBA
 CHECKED BY: DSM

SHEET TITLE
 TITLE SHEET

SHEET NUMBER T1.1
PAGE 1 OF 14

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



NODE AERIAL PLAN

SUBJECT POLE: CCR-49

GPS COORDINATES:

LAT: 29.746875

LONG: -95.796983

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.

APPROVED: *[Signature]*
Development Coordinator

DATE: 11/16



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

RECORD DRAWINGS ISSUE DATE: 10/16/16



Shift Companies, LLC
11117 HEDGE CREEK ROAD
SCOTTSDALE, ARIZONA 85257
974.363.8200
974.363.8202

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RELEASE	
DATE	SUBMITTAL
03/16/16	1ST CITY SUBMITTAL
10/16/16	2ND CITY SUBMITTAL

REVISIONS		
NO.	DATE	COMMENT
	10/16/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS
NODE #:CCR-49

FALCON LANDING BLVD AND FOREST CANYON LN

HUB AREA
CINCO RANCH - HGCW

SHIFT JOB NUMBER 150602 **IN HOUSE**

SHEET TITLE
AERIAL

SHEET NUMBER A1.0 **PAGE** 4 OF 14

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



SITE PHOTO (EXISTING) N.T.S.

PLAN CHECK #

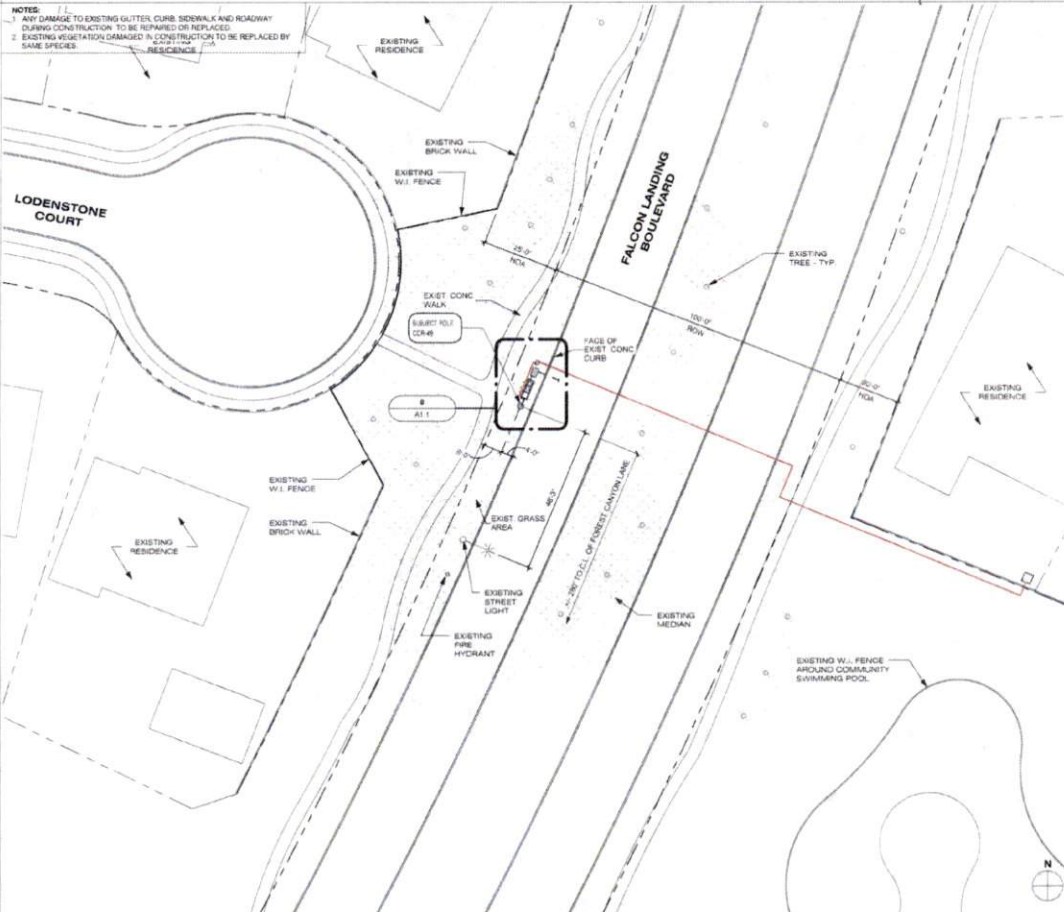
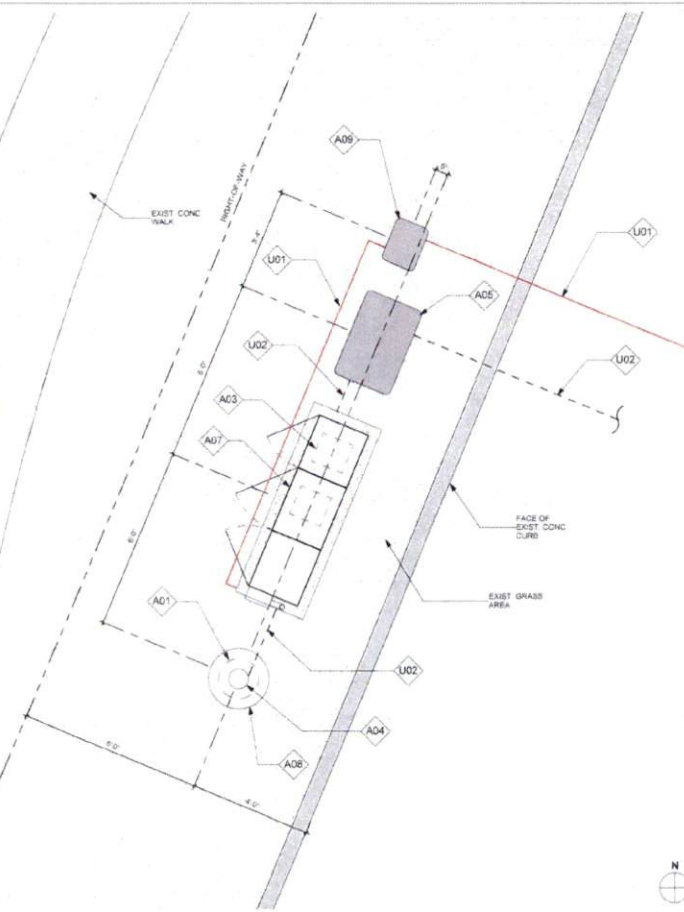
CASE #

KEYNOTE	KEYNOTE LEGEND DESCRIPTION	DETAIL
A01	PROPOSED CROWN CASTLE OMNI ANTENNA	18D1.1
A02	PROPOSED CROWN CASTLE P U G CONDUIT (APPROXIMATE LOCATION P.U.)	2ED.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNIT INSIDE EQUIPMENT CABINET	18D1.1
A04	PROPOSED NEW METAL SLIMLINE POLE	20D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONIC FIBER VAULT	18D1.2
A06	PROPOSED CROWN CASTLE NODE IDENTIFICATION SERVICE	20D1.2
A07	PROPOSED CROWN CASTLE EQUIPMENT CABINET	18D1.1
A08	PROPOSED CROWN CASTLE PIER FOUNDATION	12D1.1
A09	PROPOSED ELECTRICAL HANG HOLE	

KEYNOTE	KEYNOTE LEGEND DESCRIPTION	DETAIL
ED	PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (DISTRIBUTED PANEL AND DISCONNECT)	18D1.1
UD	PROPOSED 2" CROWN CASTLE U.G. POWER CONDUIT (APPROXIMATE LOCATION P.U.)	20D1.1 & 6D1.2
UG	PROPOSED CROWN CASTLE P U G FIBER CONDUIT BY OTHERS (APPROXIMATE LOCATION P.U.)	20D1.1 & 6D1.2



NOTES:
 1. ANY DAMAGE TO EXISTING CURB, SEWER, WALK AND ROADWAY DURING CONSTRUCTION TO BE REPAIRED OR REPLACED.
 2. EXISTING VEGETATION DAMAGED IN 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 HANDSCAPES DISTURBED OR DESTROYED AS A RESULT OF CONSTRUCTION SHALL BE REPLACED WITH A LIKE SIZE AND SPECIES
4. CONTRACTOR TO HAND LOCATE EX IRRIGATION PRIOR TO EXCAVATION
5. SITE PLAN IS A DIAGRAMMATIC REPRESENTATION ONLY. VERIFY ALL DIMENSIONS.
6. VERIFY ALL PROPERTY LINE INFORMATION WITH AVAILABLE R.O.G. DATA
7. EXIST UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY (AS PROVIDED BY LOCAL UTILITIES)

SUBJECT POLE: CCR-49

GPS COORDINATES:

LAT: 29.744675
LONG: 96.782683

POLE TYPE: METAL SLIMLINE POLE

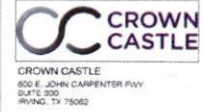
POLE ID #

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]
 Development Coordinator

DATE: 11/11/16



RECORD DRAWINGS ISSUE DATE: 10/18/16



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DATE	SUBMITTAL
6/23/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

NO.	DATE	COMMENT
	10/18/16	CITY COMMENTS

PROJECT NAME: CINCO RANCH EXPANSION

NODE ADDRESS: CINCO RANCH EXPANSION

HUB AREA: CINCO RANCH - HGCW

SHIFT JOB NUMBER: 150602

IN HOUSE: DRAWN BY: RA, CHECKED BY: CM

SHEET TITLE: SITE PLAN, EQUIPMENT AND ANTENNA PLAN

SHEET NUMBER	PAGE
A1.1	5 OF 14

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

EQUIPMENT AND ANTENNA PLAN

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

1" = 20'-0" 20

PLAN CHECK #

CASE #

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

KEYNOTE LEGEND		
KEYNOTE	DESCRIPTION	DETAIL NUMBER
A01	PROPOSED CROWN CASTLE OMNI ANTENNA	18D1.1
A02	PROPOSED CROWN CASTLE 2" U.S. CONDUIT APPROXIMATE LOCATION (F.V.)	2/E1.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNITS INSIDE EQUIPMENT CABINET	18D1.1
A04	PROPOSED NEW METAL SLIMLINE POLE	90D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER VAULT	5D1.2
A06	PROPOSED CROWN CASTLE NODE IDENTIFICATION SIGNAGE	20D1.2
A07	PROPOSED CROWN CASTLE EQUIPMENT CABINET	18D1.1
A08	PROPOSED CROWN CASTLE POLE FOUNDATION	12D1.1
A09	PROPOSED ELECTRICAL HAND HOLE	
E01	PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (DISTRIBUTED PANEL AND DISCONNECT)	18D1.1

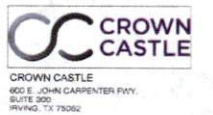
MODEL	AMPENNA - 22UTN010F.gwg
LENGTH	48'
WIDTH	14' 6" DIA
DEPTH	NA
WEIGHT	26.1 LBS

PROPOSED PANEL ANTENNA SPECS

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

POLE INFO

APPROVED: 
Development Coordinator
DATE: 11/1/16



RECORD DRAWINGS ISSUE DATE: 10/18/16



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RELEASE	
DATE	SUBMITTAL
6/28/16	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-49
FALCON LANDING BLVD AND FOREST CANYON LN

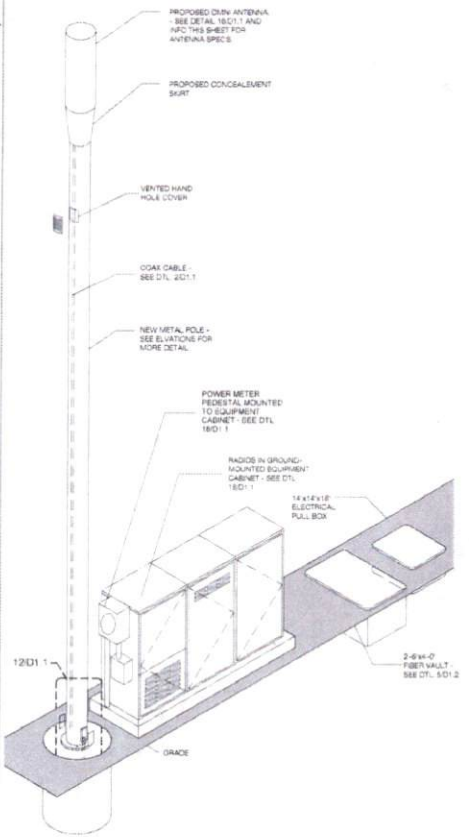
HUB AREA
CINCO RANCH - HGCW

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

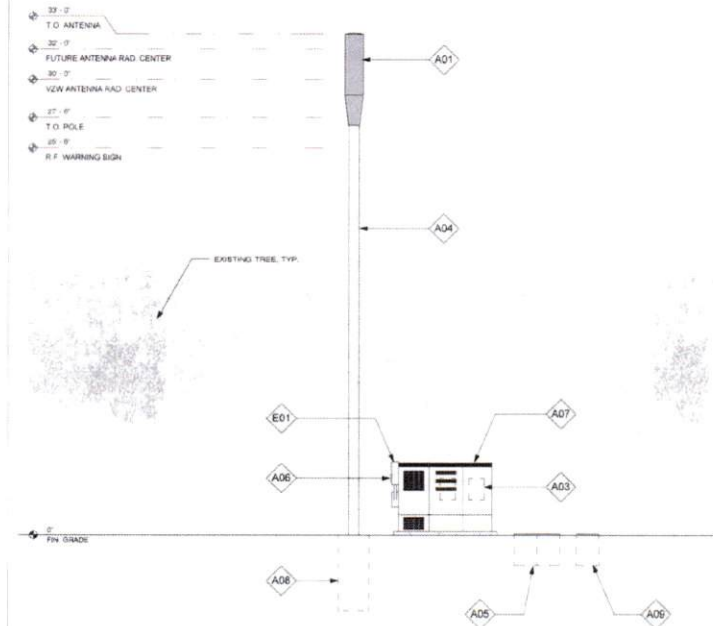
SHEET TITLE
POLE ELEVATION, PROPOSED

SHEET NUMBER: A1.2
PAGE: 6 OF 14

PLOT SCALE: 1:1 @ 24"x30"; 1:2 @ 31"x17"



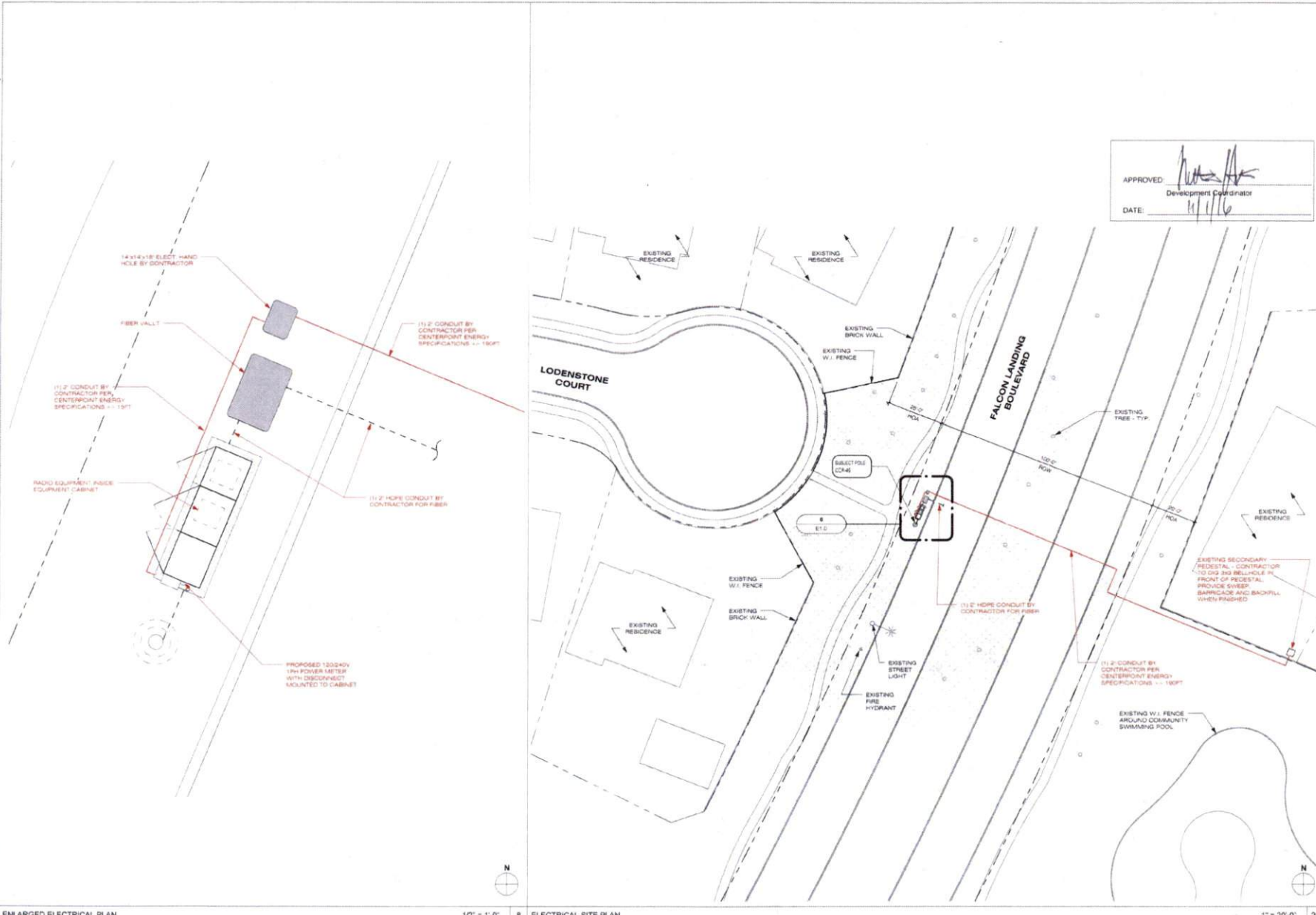
METAL POLE ISOMETRIC SCALE SCALE N.T.S. 4



POLE ELEVATION (PROPOSED) SCALE 1/4" = 1'-0" 20

PLAN CHECK #

CASE #



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



CROWN CASTLE
800 E. JOHN CARPENTER Fwy.
SUITE 200
IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/18/16



SHIFT COMPANIES, LLC
7512 WOOD VISTA ROAD
SCOTTSDALE, ARIZONA 85257
PH: 480.336.8225
FAX: 480.336.0653

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10/18/16	2ND CITY SUBMITTAL

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PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS
NODE #: CCR-49

FALCON LANDING BLVD AND FOREST CANYON LN

HUB AREA
CINCO RANCH - HGCW

SHIFT JOB NUMBER
150602

SHEET TITLE
ELECTRICAL PLANS

SHEET NUMBER
E1.0

PAGE
9 OF 14

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

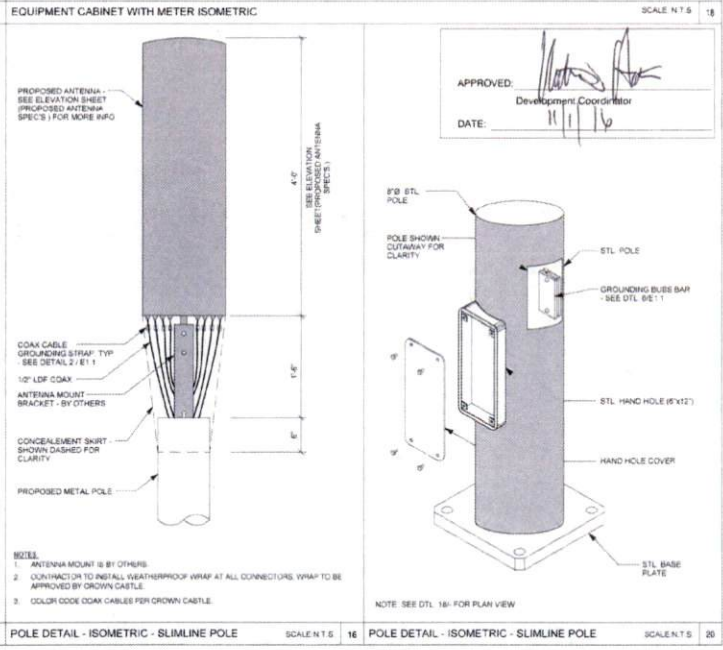
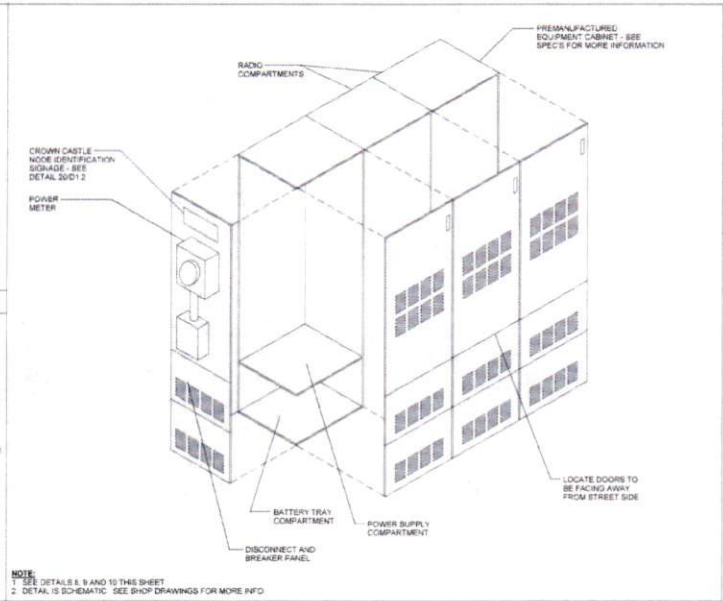
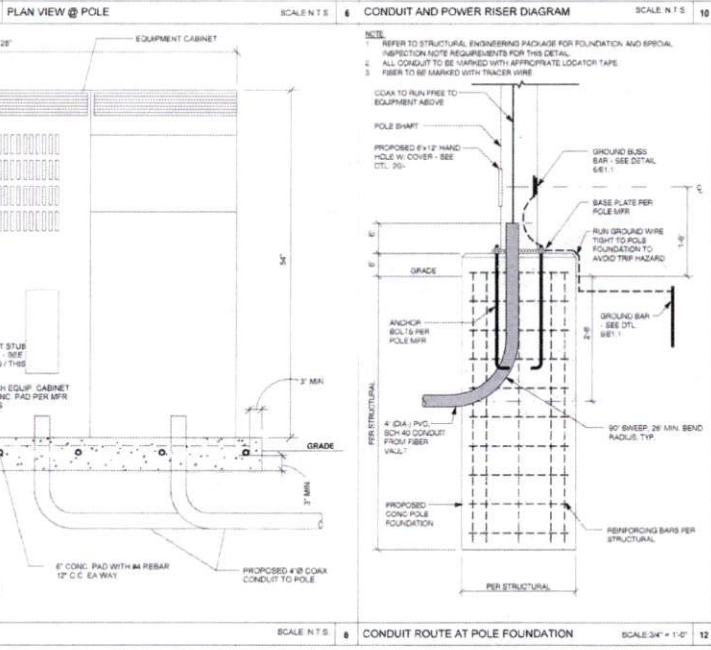
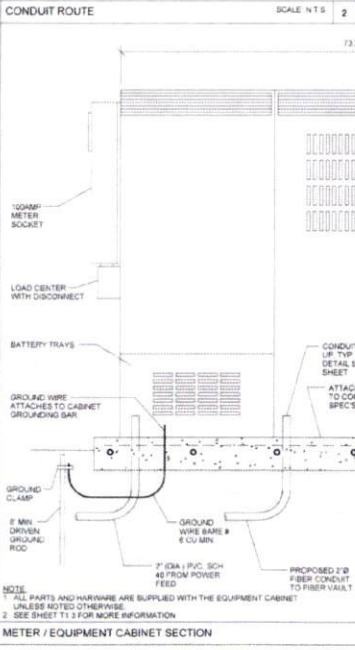
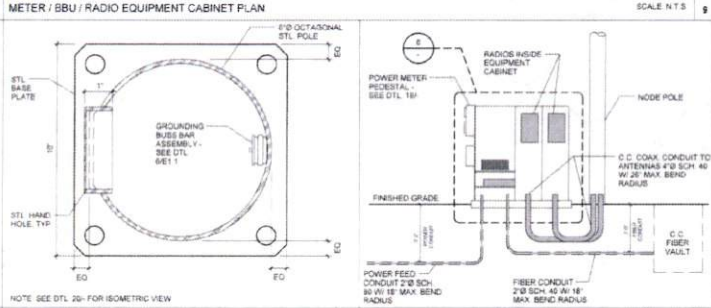
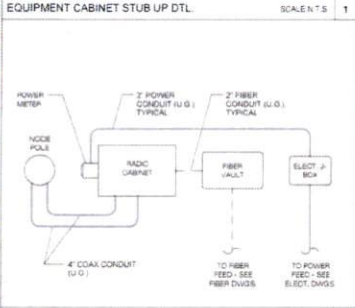
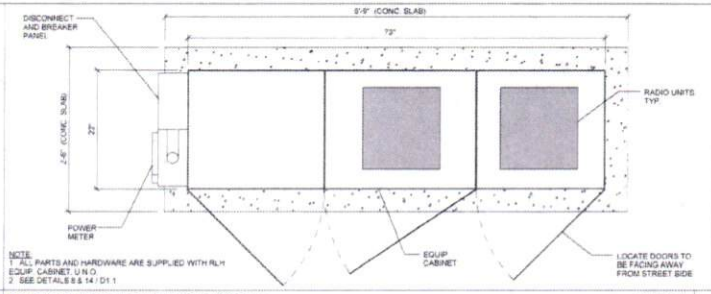
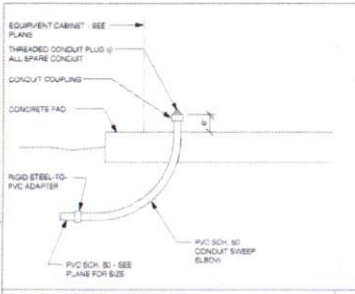
PLAN CHECK #

ENLARGED ELECTRICAL PLAN

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

1" = 20'-0" 20

C:\Users\uebe_000\Documents\AAA - Shift Companies\AAA - Crown Castle Houston\Cinco Ranch Expansion\Sheet\Cinco Ranch Expansion - Detail Sheets - 12.14.15.rvt



CROWN CASTLE
 CROWN CASTLE
 800 E. JOHN CARPENTER FWY.
 SUITE 200
 IRVING, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/18/16

SHIFT
 Shift Companies, LLC
 7311 FORT WORTH ROAD
 SCOTTSDALE, ARIZONA 85251
 PH: 480.364.0229
 FX: 480.364.0363

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

NO.	DATE	COMMENT
1	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

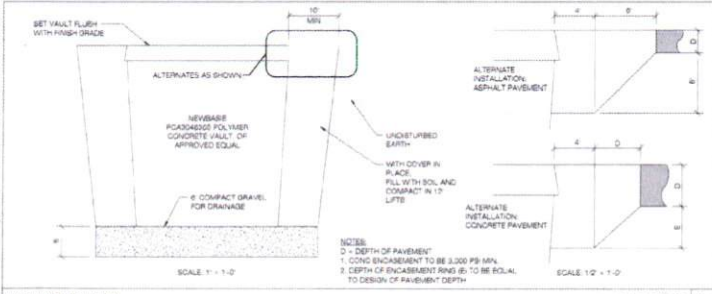
HUB AREA
CINCO RANCH - HGCW
 SHEET JOB NUMBER **150802** IN HOUSE
 DRAWN BY: RA
 CHECKED BY: DM

SHEET TITLE
CONSTRUCTION DETAILS
 SHEET NUMBER **D1.1** PAGE **7 OF 14**
 PLOT SCALE: 1:1 @ 24\"/>

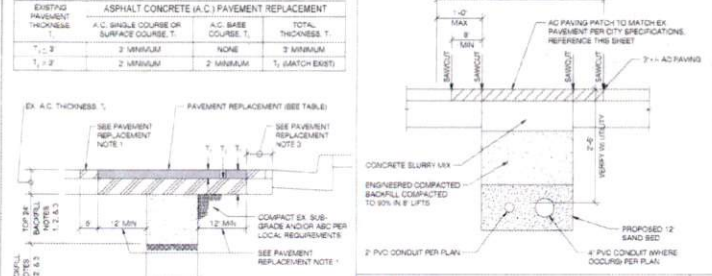
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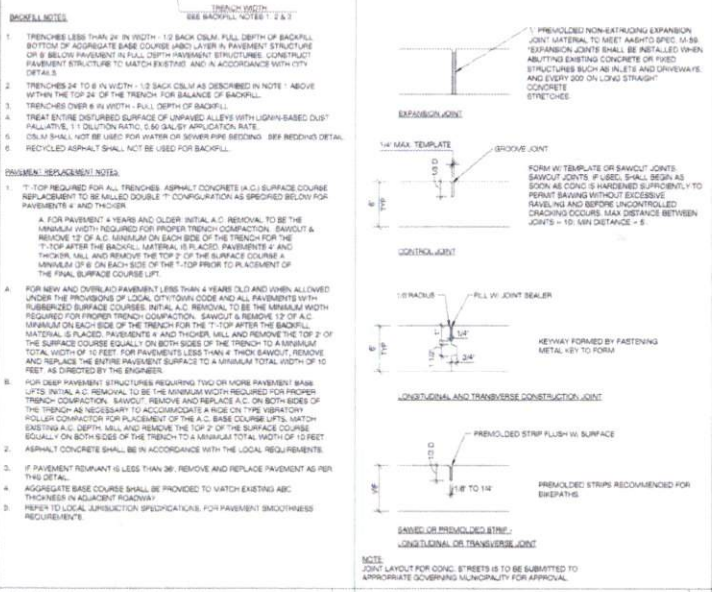
CASE #



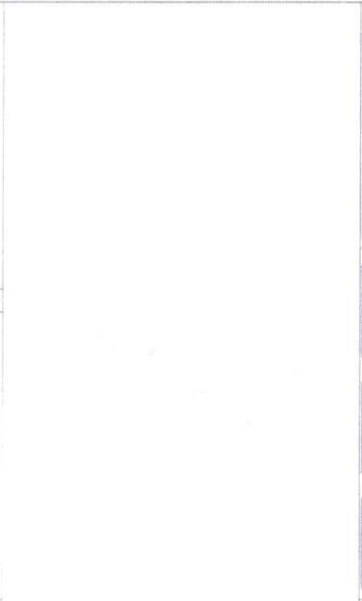
VAULT INSTALLATION SCALE AS NOTED 5



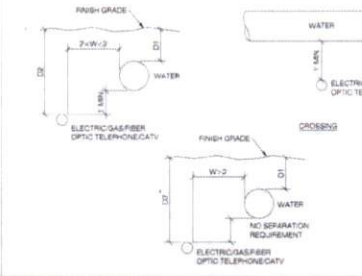
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TRENCH AND PATCHING REQUIREMENTS SCALE 1/2\"/>



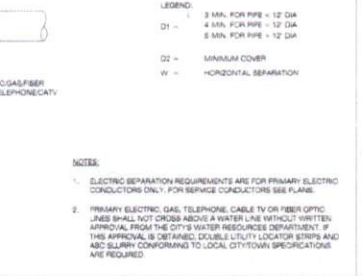
CONCRETE JOINT DETAILS SCALE 1/2\"/>



SANITARY SEWER SEPARATION / PROTECTION FROM WATER & UTILITIES SCALE 1/2\"/>



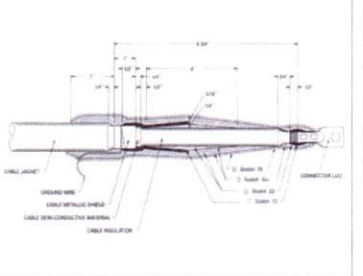
COAX WATERPROOFING - JMA TYPE SCALE 1/8\"/>



MINIMUM UTILITY SEPARATION REQUIREMENTS SCALE 1/5\"/>



COAX WATERPROOFING - FUSION TAPE TYPE SCALE 1/5\"/>



NODE IDENTIFICATION SIGNAGE SCALE 1/5\"/>

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



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

RECORD DRAWINGS ISSUE DATE: 10.16.16



Shift Companies, LLC
7311 NORTH VISTA ROAD
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DATE	SUBMITTAL
8.03.16	1ST CITY SUBMITTAL
10.16.16	2ND CITY SUBMITTAL

NO.	DATE	COMMENT
10.16.16	10/16/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA
CINCO RANCH - HGCV

SHIFT JOB NUMBER: 150602
IN HOUSE: BY:

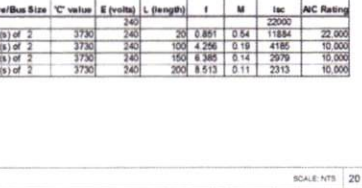
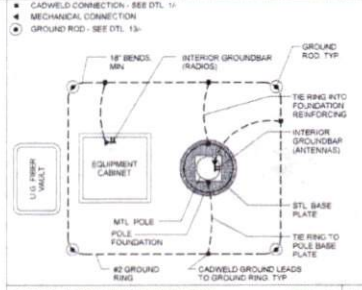
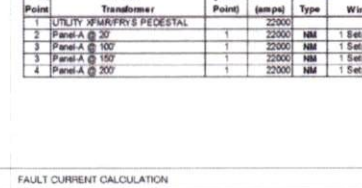
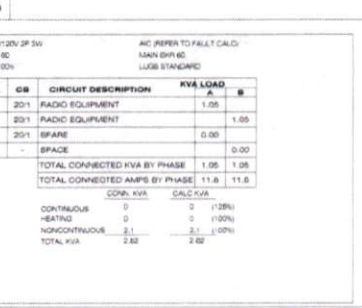
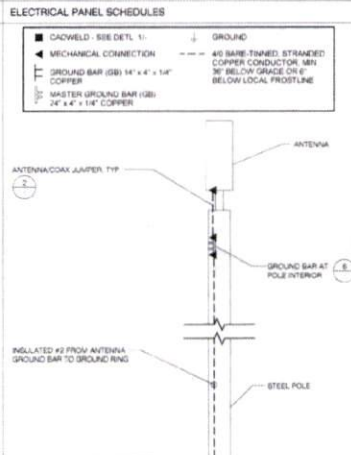
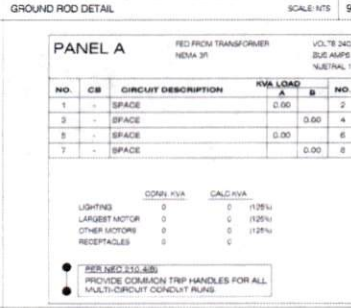
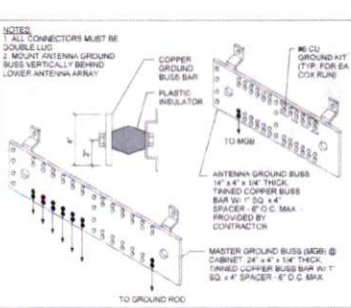
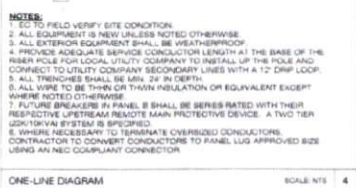
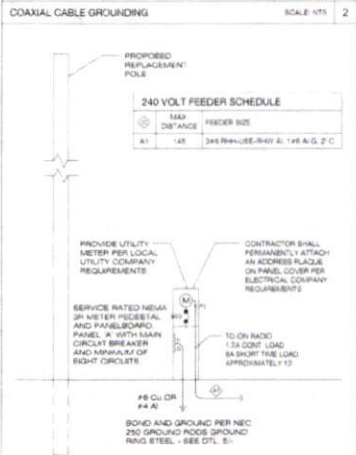
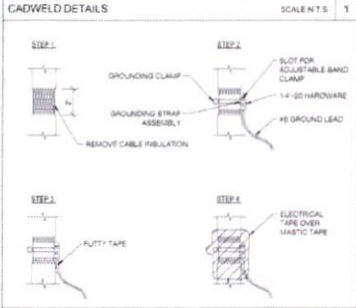
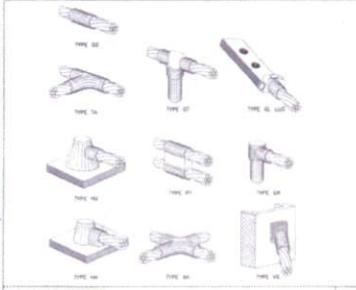
SHEET TITLE
CONSTRUCTION DETAILS

SHEET NUMBER: D1.2
PAGE: 8 OF 14

PLOT SCALE: 1/16" = 1'-0" (24x36"); 1/2" = 1'-0" (17x17")

PLAN CHECK

CASE



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

RECORD DRAWINGS (ISSUE DATE: 10/18/16)



Shift Companies, LLC
7811 NORTH WETA ROAD
SOUTHFALL, ALABAMA 36357
95% RELIABILITY
66-96.84.943

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DATE	SUBMITTAL
8-01-16	1ST CITY SUBMITTAL
11-8-16	2ND CITY SUBMITTAL

NO.	DATE	COMMENTS
10	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA
CINCO RANCH - HGCW

SHIFT JOB NUMBER
150602

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E1.1

PAGE
10 OF 14

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

PLAN CHECK #

CASE #