



**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: 2016-10747

Applicant: Crown Castle NG Central LLC/Shift Companies

Job Location Site: South of S.W.C. of Cinco Crossing Lane and Amber Dawn Lane, 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

By: Charles O. Ay

for County Engineer

N/A

By:

Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

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

Clerk of Commissioners Court

By: Janita Walters
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@fortbendcountytexas.gov

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

Permit No: 2016-10747

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: 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.

Chandy O. Aj

Permit Administrator

12/6/16

Date

SHIFT

November 28, 2016

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

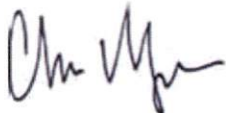
**RE: Cinco Ranch Traffic Control Plan
- Shift Project #160614**

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: COMMERCIAL CENTER BLVD. & CINCO VILLAGE CENTER
 PROJECT TYPE: METAL SLIMLINE POLE
 HUB AREA: CINCO RANCH - HGCW
 NODE #(s): **CCR-25**
 COORDINATES: LAT: 29.737466, LONG: -95.777713

PROJECT TEAM		PROJECT SUMMARY	
ARCHITECT	OWNER INFO	PROJECT NAME:	APPLICANT:
Company: SHIFT CONSULTING	Company: CROWN CASTLE	CINCO RANCH	CROWN CASTLE
Address: 7333 E. MONTE VISTA RD	Address: 1220 AUGUSTA DR.	EXPANSION	1220 AUGUSTA DR.
Address: SCOTTSDALE, AZ 85257	Address: HOUSTON, TX 77057		HOUSTON, TX 77057
Phone Number: 480.264.0829	Phone #: 817.449.3113	PROJECT AREA:	CONTACT: BARRY CAMPALU
Fax Number: 480.264.0163	Email: BARRY.CAMPALU@CROWNCASTLE.COM	CINCO RANCH - HGCW	
Contact: CHRIS MYERS	Contact: BARRY CAMPALU	CODES:	
STRUCTURAL	RF ENGINEER	2009 INTERNATIONAL BUILDING CODE (IBC)	
Company: T.B.D.	Company: CROWN CASTLE	2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)	
Address:	Address: 1220 AUGUSTA DR.	2008 NATIONAL ELECTRICAL CODE (NEC)	
	Address: HOUSTON, TX 77057	2008 NATIONAL ELECTRICAL SAFETY CODE (NESC)	
Phone Number:	Phone Number:	PLUMBING REQUIREMENTS:	
Fax Number:	Fax Number:	FACILITY HAS NO PLUMBING.	
Contact:	Contact:	HANDICAPPED REQUIREMENTS:	
FIBER ENGINEERING		POWER COMPANY:	
Company: TDC2		CENTERPOINT ENERGY	
Address: 710 EAST PARK BLVD.		5431 HIGHWAY BLVD.	
Address: SUITE 110		KATY, TX 77494	
Address: PLANO, TX 75074		PH: 281.820.6275	
Phone: 972.423.9080		CONTACT: KEN CORTEZ	
Email: KEN@TDC2.COM			
Contact: SCOTT CRUM			

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.

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FED-12A(2)	PEDESTRIAN FACILITIES CURB RAMPS	12
FED-12A(3)	PEDESTRIAN FACILITIES CURB RAMPS	13
FED-12A(4)	PEDESTRIAN FACILITIES CURB RAMPS	14

FORT BEND COUNTY ENGINEER

ENGINEER: *Richard W. Stokes, P.E.*
 For: Richard W. Stokes, P.E.

DATE: 11/1/16

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.

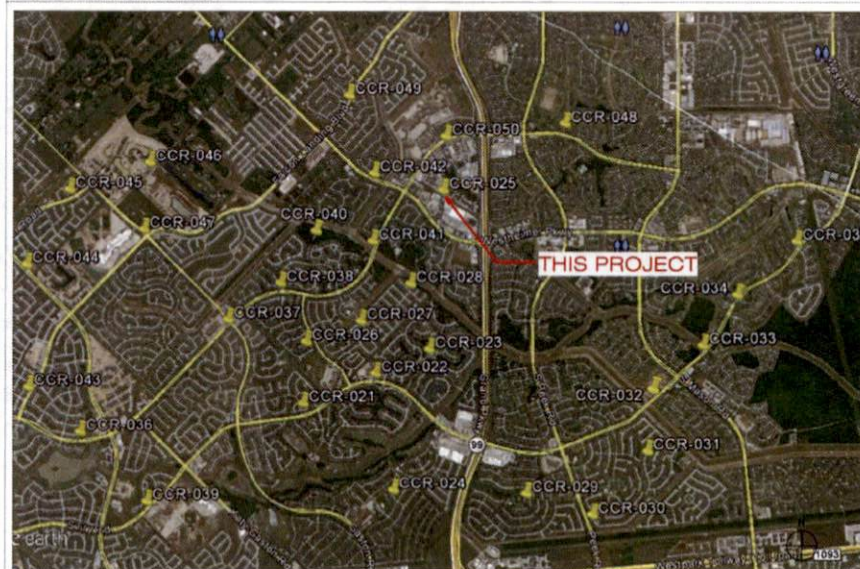
APPROVED: *[Signature]*

Development Coordinator

DATE: 11/1/16

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

OVERALL NODE LOCATION MAP



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

RECORD DRAWINGS ISSUE DATE: 12.16.16

RECORD DRAWING DRAFTING ONLY



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RELEASE	
DATE	SUBMITTAL
6/20/16	1ST CITY SUBMITTAL
10/16/16	2ND CITY SUBMITTAL

REVISIONS	
NO.	DATE
1	10/16/16
2	10/16/16

PROJECT NAME
 CINCO RANCH EXPANSION

NODE ADDRESS

NODE #:**CCR-25**
 COMMERCIAL CENTER BLVD. & CINCO VILLAGE CENTER

HUB AREA
 CINCO RANCH - HGCW

SHIFT JOB NUMBER
 150602

SHEET TITLE
 TITLE SHEET

SHEET NUMBER
 T1.1

PAGE
 1 OF 14

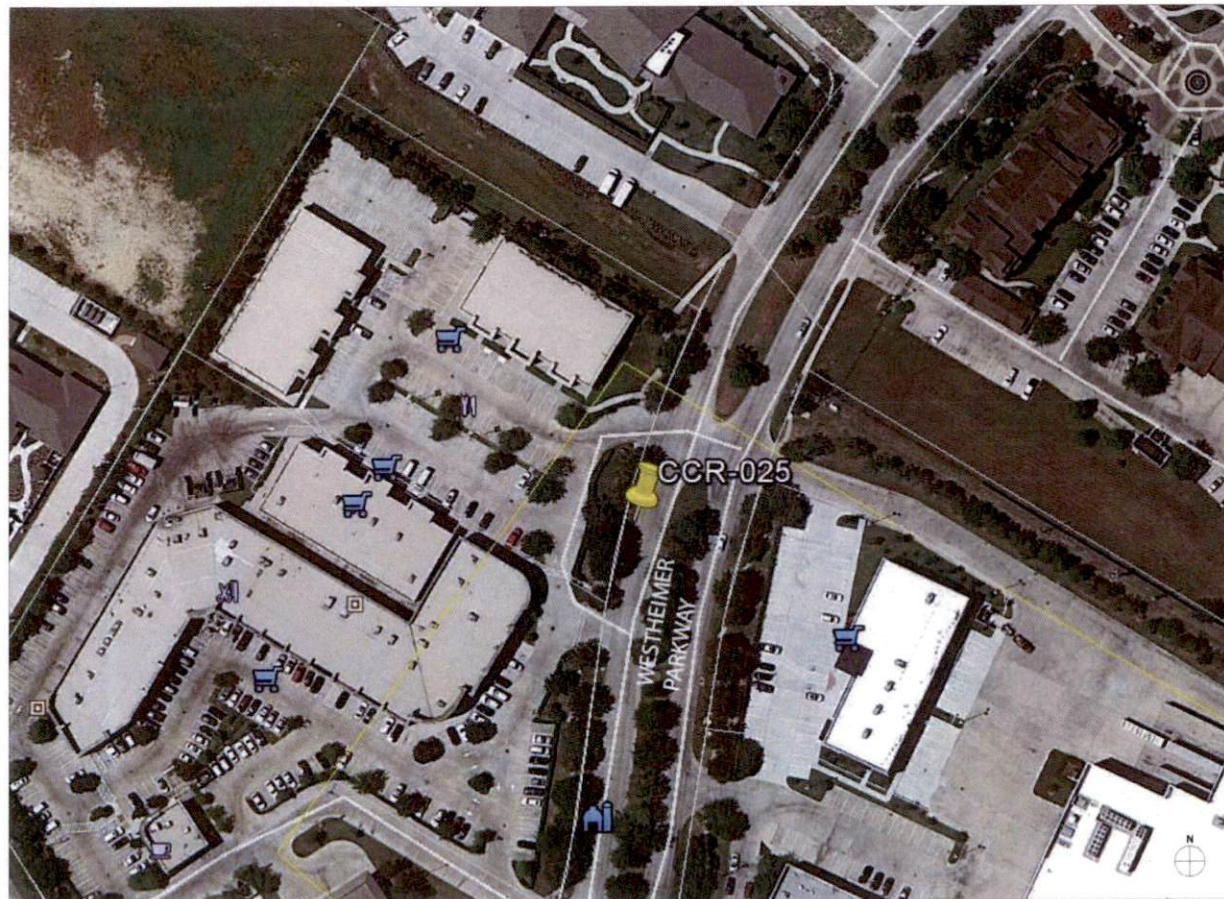
PLOT SCALE: 1" = 240' (1" = 120')

FORT BEND COUNTY CONSTRUCTION NOTES

ABBREVIATIONS AND SYMBOLS

SCALE: NTB 20

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



NODE AERIAL PLAN

SUBJECT POLE: CCR-25

GPS COORDINATES:

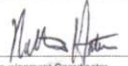
LAT: 28.177466

LONG: -95.777712

POLE TYPE: METAL SLALINE POLE
POLE ID #:

UPPER ANTENNA RAD CENTER: 30' - 0" A.F.D.

LOWER ANTENNA RAD CENTER: 30' - 0" A.F.D.

APPROVED: 

Development Coordinator

DATE: 11/1/16

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

RECORD DRAWINGS ISSUE DATE: 10/18/16

SHIFT

Shift Companies, LLC
7511 WEST 10TH AVE
SCOTTSDALE, ARIZONA 85257
PH: 480.348.8000
FW: 480.348.8000THIS DRAWING IS COPYRIGHTED AND IS
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RELEASE	
DATE	SUBMITTAL
8/23/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS	
NO	DATE
10/18/16	CITY COMMENTS

PROJECT NAME

CINCO RANCH EXPANSION

NODE ADDRESS

NODE #CCR-25

COMMERCIAL CENTER
BLVD. & CINCO VILLAGE
CENTER

HUB AREA

CINCO RANCH - HGCW

SHIFT JOB NUMBER

150602

DRAWN BY: SM
CHECKED BY: GM

SHEET TITLE

AERIAL

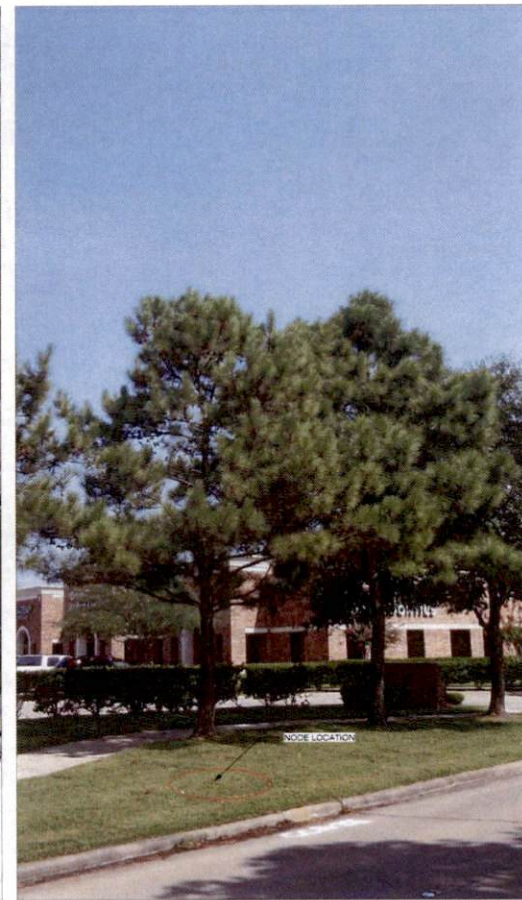
SHEET NUMBER

A1.0

PAGE

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PLOT SCALE: 1" @ 24'X36'; 1:2 @ 11'X17'



SITE PHOTO (EXISTING)

N.T.S.

KEYNOTE	KEYNOTE LEGEND DESCRIPTION	DETAIL
A01	PROPOSED CROWN CASTLE OMNI ANTENNA	18/D1.1
A02	PROPOSED CROWN CASTLE 2" U.G. CONDUIT (APPROXIMATE LOCATION F.V.)	20/D1.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNIT INSIDE EQUIPMENT CABINET	18/D1.1
A04	PROPOSED NEW METAL SUNKLINE POLE	20/D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONC. FIBER VAULT	8/D1.2
A06	PROPOSED CROWN CASTLE NODE IDENTIFICATION SIGNAGE	10/D1.2
A07	PROPOSED CROWN CASTLE EQUIPMENT CABINET	18/D1.1
A08	PROPOSED CROWN CASTLE FIBER FOUNDATION	12/D1.1
A09	PROPOSED ELECTRICAL HAND HOLE	

KEYNOTE	KEYNOTE LEGEND DESCRIPTION	DETAIL
E01	PROPOSED POWER METER MOUNTED TO EQUIPMENT CABINET (DISTRIBUTED PANEL AND DISCONNECT)	18/D1.1
U01	PROPOSED 2" CROWN CASTLE U.S. POWER CONDUIT (APPROXIMATE LOCATION F.V.)	20/D1.1 & 20/D1.2
U02	PROPOSED CROWN CASTLE 2" U.S. FIBER CONDUIT BY OTHERS (APPROXIMATE LOCATION F.V.)	20/D1.1 & 20/D1.2



NOTES:
1. ANY DAMAGE TO EXISTING GUTTER, CURB, SIDEWALK 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 HARDSCAPES
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 DIAGNOSTIC REPRESENTATION ONLY. VERIFY ALL
DIMENSIONS.
6. VERIFY ALL PROPERTY LINE INFORMATION WITH AVAILABLE R.O.W. DATA.
7. EXIST. UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY
AS PROVIDED BY LOCAL UTILITIES.

SUBJECT POLE: CCR-25

GPS COORDINATES:

LAT: 29.731468

LONG: -95.777113

POLE TYPE: METAL SUNKLINE POLE

POLE ID #:

UPPER ANTENNA RAD CENTER: 32' - 0" A.P.G.

LOWER ANTENNA RAD CENTER: 30' - 0" A.P.G.

SUBJECT POLE IS LOCATED IN: FORT BEND COUNTY R.O.W.

APPROVED: [Signature]
Development Coordinator

DATE: 11/1/16



CROWN CASTLE
800 E. JOHN CARPENTER Pkwy.
SUITE 500
PLANO, TX 75062

RECORD DRAWINGS ISSUE DATE: 10/18/16



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RELEASE	
DATE	SUBMITTAL
6/22/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS	
NO.	DATE
10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS

NODE #CCR-25
COMMERCIAL CENTER BLVD. & CINCO VILLAGE CENTER

HUB AREA

CINCO RANCH - HGCW

SHIFT JOB NUMBER 150602 **IN HOUSE**

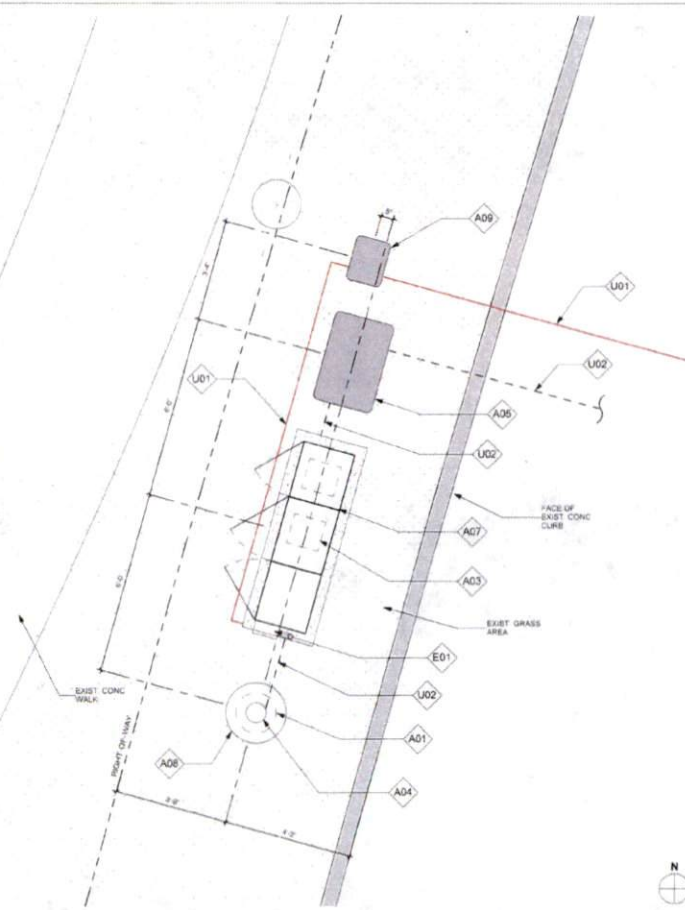
DRAWN BY: RA **CHECKED BY:** CM

SHEET TITLE

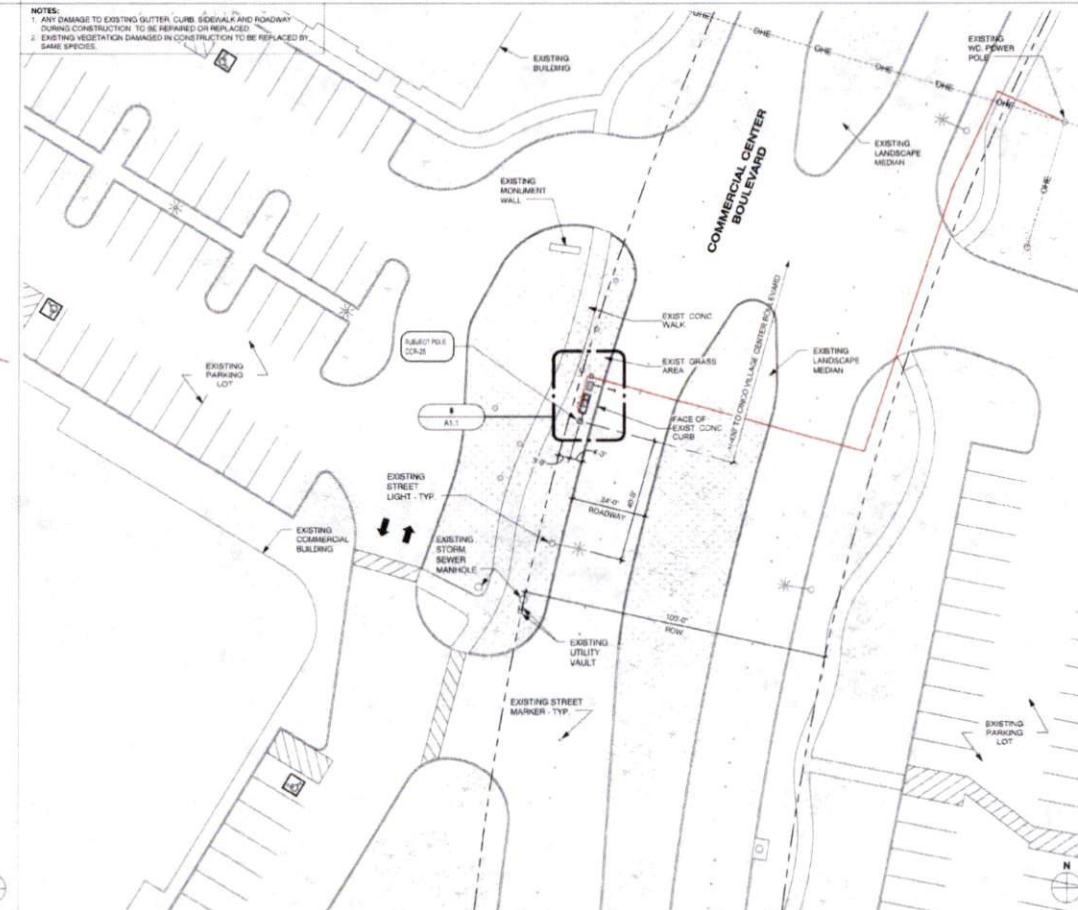
SITE PLAN, EQUIPMENT AND ANTENNA PLAN

SHEET NUMBER 5 **PAGE** 14

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



EQUIPMENT AND ANTENNA PLAN



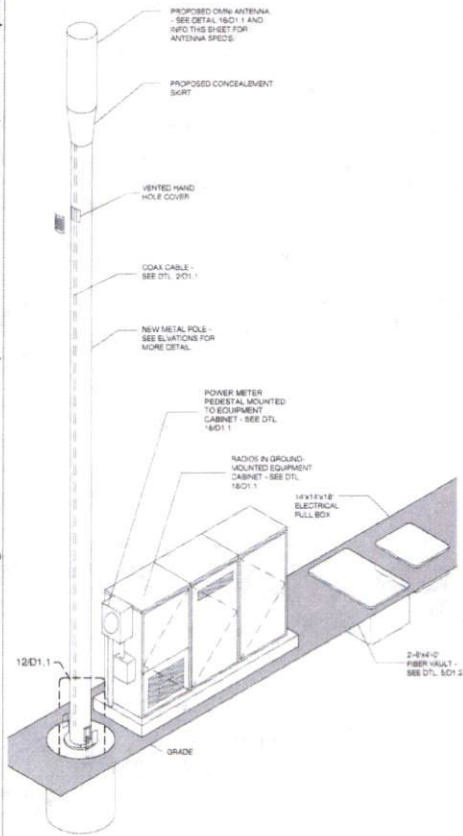
OVERALL SITE PLAN

1" = 20'-0" 20

C:\Users\ruebe_000\Documents\AAA - Shift Companies\AAA - Crown Castle\Houston\Cinco Ranch Expansion\Site\CCR-25 - Project - 12.14.15.rvt

10/17/2016 1:27:14 PM

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 2" U.S. CONDUIT APPROXIMATE LOCATION (F.N.)	9D1.1
A03	PROPOSED CROWN CASTLE REMOTE RADIO UNITS INSIDE EQUIPMENT CABINET	16D1.1
A04	PROPOSED NEW METAL SLIMLINE POLE	20D1.1
A05	PROPOSED CROWN CASTLE UNDERGROUND CONIC FIBER VAULT	5D1.2
A06	PROPOSED CROWN CASTLE RADIO IDENTIFICATION SIGNAGE	35D1.2
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 (DISTRIBUTED PANEL AND DISCONNECT)	16D1.1

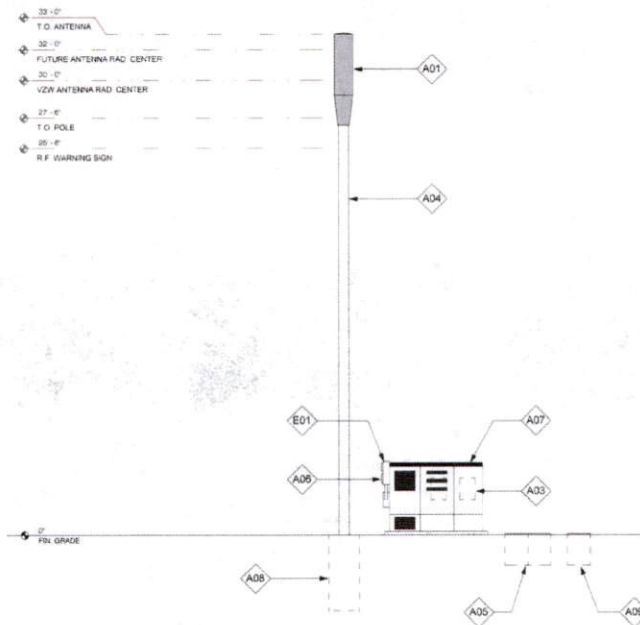
MODEL: AIRPANEL - SCOUT360107FWS
LENGTH: 48"
WIDTH: 14" DIA
DEPTH: N/A
WEIGHT: 35.1 LBS

PROPOSED PANEL ANTENNA SPECS

PROPOSED POLE WIDTH: 8" @
PROPOSED POLE HEIGHT: 27' - 6"
(1" 4" ANTENNA AND 1" 6" ANTENNA MOUNT)

POLE INFO

APPROVED:
Development Coordinator
DATE: 11/1/16



POLE ELEVATION (PROPOSED)

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



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

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



Shift Companies, LLC
1331 E. PUEBLO AVE. SUITE 200
NORTTISDALE, ARIZONA 85207
PH: 480.244.2807
WWW.SHIFT.COM

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RELEASE	
DATE	SUBMITTAL
6/03/16	1ST CITY SUBMITTAL
10/19/16	2ND CITY SUBMITTAL

REVISIONS	
NO.	DATE
1	10/18/16

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS

NODE #: CCR-25

COMMERCIAL CENTER BLVD. & CINCO VILLAGE CENTER

HUB AREA

CINCO RANCH - HGCW

SHIFT JOB NUMBER 150602

IN HOUSE DRAWN BY: RA CHECKED BY: CM

SHEET TITLE

POLE ELEVATION, PROPOSED

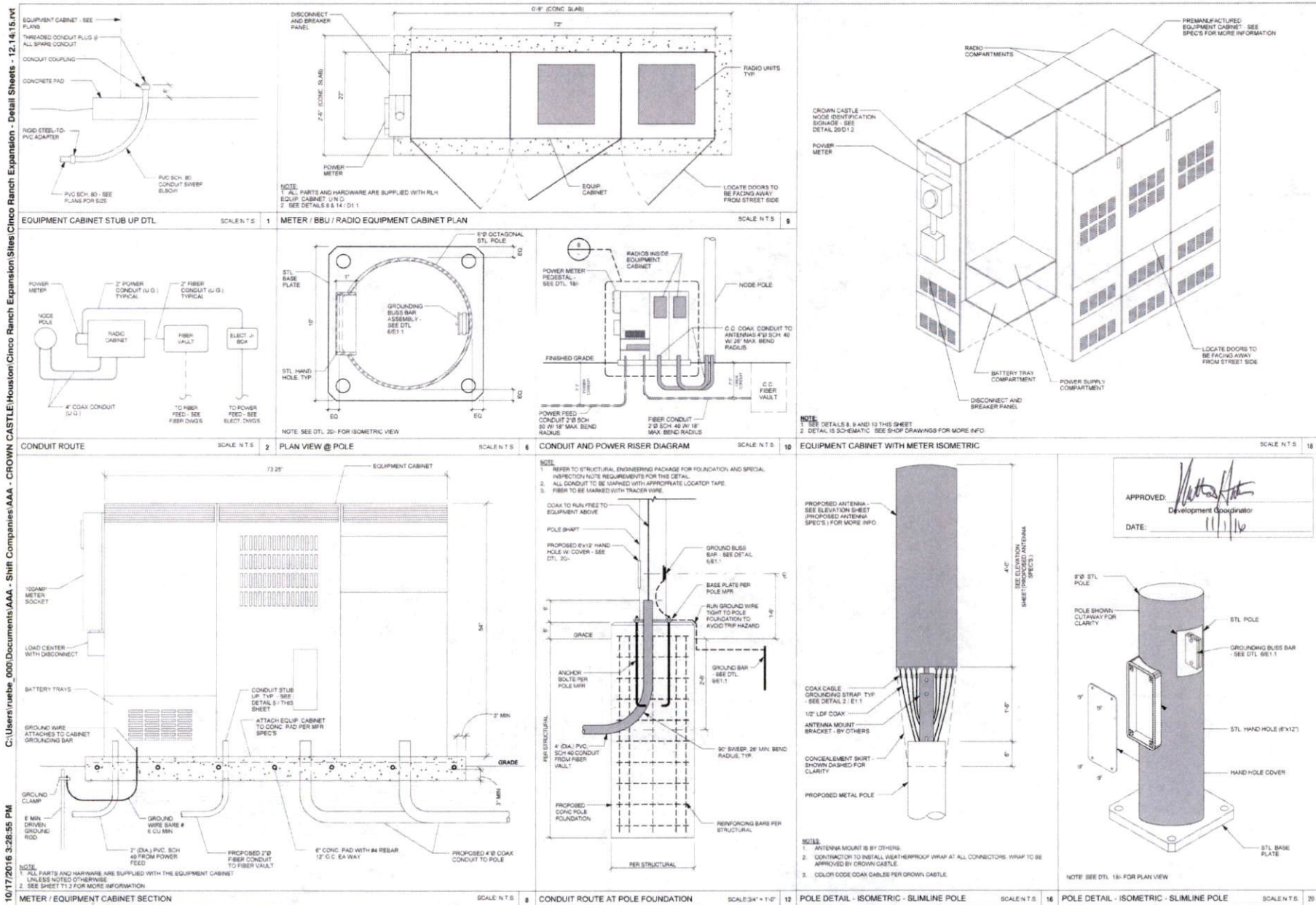
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PAGE 6 OF 14

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

PLAN CHECK #

CASE #



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

RECORD DRAWINGS ISSUE DATE: 10/18/16

SHIFT

Shift Companies, LLC
7021 E. HENDERSON AVE.
SCOTTSDALE, ARIZONA 85257
PH: 480.344.6500
FAX: 480.344.6143

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6/23/16	1ST CITY SUBMITTAL	
10/18/16	2ND CITY SUBMITTAL	
REVISIONS		
NO.	DATE	COMMENT
	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA
CINCO RANCH - HGCW

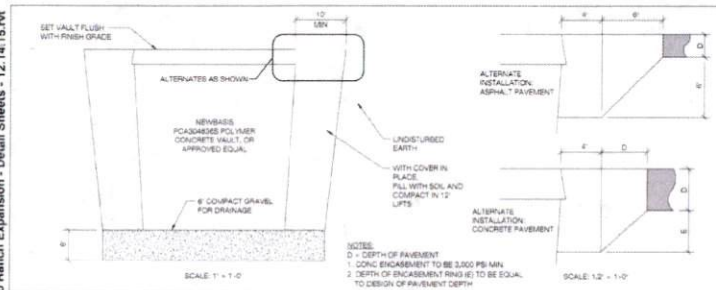
SHIFT JOB NUMBER
150602

SHEET TITLE
CONSTRUCTION DETAILS

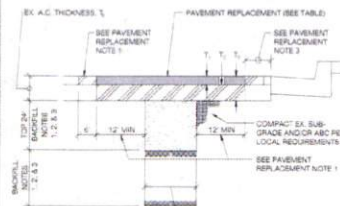
SHEET NUMBER
D1.1

PAGE
7 OF 14

PLOT SCALE: 1" = 24' (N); 1" = 11' (E)



EXISTING PAVEMENT THICKNESS	ASPHALT CONCRETE (A.C.) PAVEMENT REPLACEMENT	ASPHALT CONCRETE (A.C.) PAVEMENT REPLACEMENT
T ₁ ≥ 2	A.C. SINGLE COURSE OR SURFACE COURSE, T ₁	A.C. BASE COURSE, T ₁
T ₁ ≥ 2	2" MINIMUM	NONE
T ₁ ≥ 2	2" MINIMUM	2" MINIMUM
		T ₁ (MATCH EXIST)



MINIMUM NOTES

1. TRENCHES LESS THAN 24" IN WIDTH - 12" BACK FILL. DEPTH OF BACKFILL BOTTOM OF AGGREGATE BASE COURSE AND LAYER IN PAVEMENT STRUCTURE OR 6" BELOW PAVEMENT IN FULL DEPTH PAVEMENT STRUCTURES. COMPACT PAVEMENT STRUCTURE TO MATCH EXISTING AND IN ACCORDANCE WITH CITY DETAILS.

2. TRENCHES 24" TO 36" IN WIDTH - 12" BACK FILL AS DESCRIBED IN NOTE 1 ABOVE WITHIN THE TOP 24" OF THE TRENCH. FOR BALANCE OF BACKFILL.

3. TRENCHES OVER 36" IN WIDTH - FULL DEPTH OF BACKFILL.

4. TREAT ENTIRE DISTURBED SURFACE OF UNPAVED ALLEYS WITH JOINT-BASED DUST PALMATIVE, 1:1 DUSTING RATIO, 0.85 GAL/1000 SQ. YD. APPLICATION RATE.

5. CULM SHALL NOT BE USED FOR WATER OR SEWER PIPE BEDDING. SEE BEDDING DETAIL.

6. RECYCLED ASPHALT SHALL NOT BE USED FOR BACKFILL.

PAVEMENT REPLACEMENT NOTES

1. 1" TOP REQUIRED FOR ALL TRENCHES. ASPHALT CONCRETE (A.C.) SURFACE COURSE REPLACEMENT TO BE MINIMUM DOUBLE "C" CONSTRUCTION AS SPECIFIED BELOW FOR PAVEMENTS 4" AND THICKER.

A. FOR PAVEMENT 4" YEARS AND OLDER, INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACT. BACKFILL & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE 1" TOP AFTER THE BACKFILL. MATERIAL REPLACES PAVEMENTS 4" AND THICKER. MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE A MINIMUM OF 8" ON EACH SIDE OF THE 1" TOP PRIOR TO PLACEMENT OF THE FINAL SURFACE COURSE LIFT.

B. FOR NEW AND OVERLAP PAVEMENT LESS THAN 4" YEARS OLD AND WHEN ALLOWED UNDER THE PROVISIONS OF LOCAL CITY/TOWN CODE AND ALL PAVEMENTS WITH UNBLENDED SURFACE COURSES, INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACT. BACKFILL & REMOVE 12" OF A.C. MINIMUM ON EACH SIDE OF THE TRENCH FOR THE 1" TOP AFTER THE BACKFILL. MATERIAL REPLACES PAVEMENTS 4" AND THICKER. MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE A MINIMUM OF 8" ON EACH SIDE OF THE 1" TOP PRIOR TO PLACEMENT OF THE FINAL SURFACE COURSE LIFT.

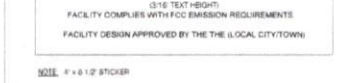
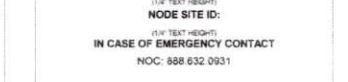
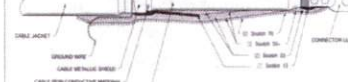
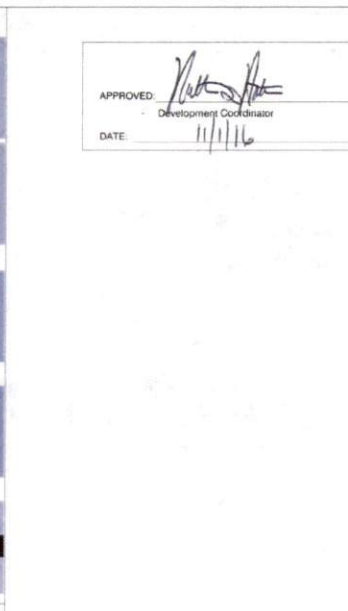
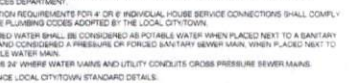
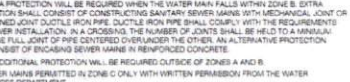
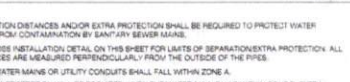
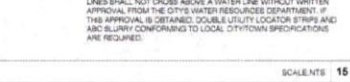
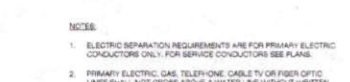
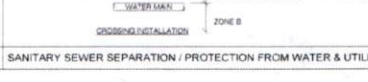
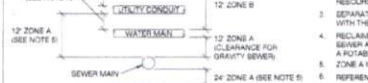
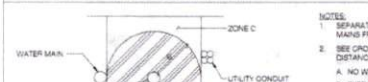
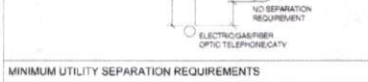
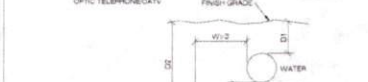
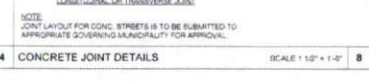
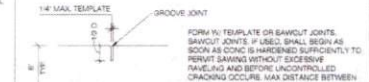
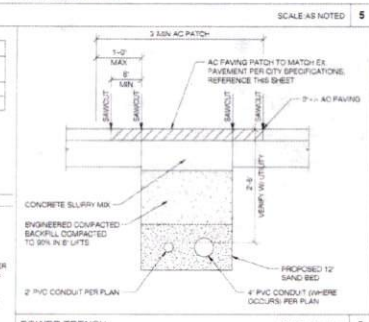
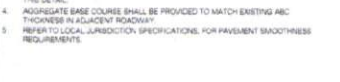
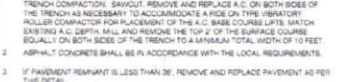
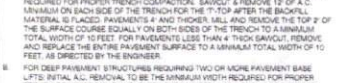
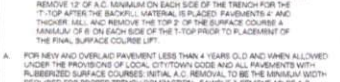
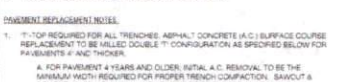
C. FOR DEEP PAVEMENT STRUCTURES REQUIRING TWO OR MORE PAVEMENT BASE LIFTS, INITIAL A.C. REMOVAL TO BE THE MINIMUM WIDTH REQUIRED FOR PROPER TRENCH COMPACT. BACKFILL & REMOVE AND REPLACE A.C. ON BOTH SIDES OF THE TRENCH AS NECESSARY TO ACCOMMODATE A RIDE ON THE VIBRATORY ROLLER COMPACTOR FOR PLACEMENT OF THE A.C. BASE COURSE. MATCH EXISTING A.C. DEPTH. MILL AND REMOVE THE TOP 2" OF THE SURFACE COURSE. SOAKLY ON BOTH SIDES OF THE TRENCH TO A MINIMUM TOTAL WIDTH OF 10 FEET.

2. ASPHALT CONCRETE SHALL BE IN ACCORDANCE WITH THE LOCAL REQUIREMENTS.

3. IF PAVEMENT REMAINS IS LESS THAN 36", REMOVE AND REPLACE PAVEMENT AS PER THE DETAIL.

4. AGGREGATE BASE COURSE SHALL BE PROVIDED TO MATCH EXISTING A.C. THICKNESS IN ADJACENT ROADWAY.

5. REFER TO LOCAL JURISDICTION SPECIFICATIONS FOR PAVEMENT SMOOTHNESS REQUIREMENTS.



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

RECORD DRAWING (ISSUE DATE: 10/16/16)



Shift Companies, LLC
11111 N. 11TH ST. SUITE 100
SCOTTSDALE, ARIZONA 85257
PH: 480.365.8801
FAX: 480.365.8802

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

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

PROJECT NAME
CINCO RANCH EXPANSION

HUB AREA
CINCO RANCH - HGCW

SHEET JOB NUMBER
150602

SHEET TITLE
CONSTRUCTION DETAILS

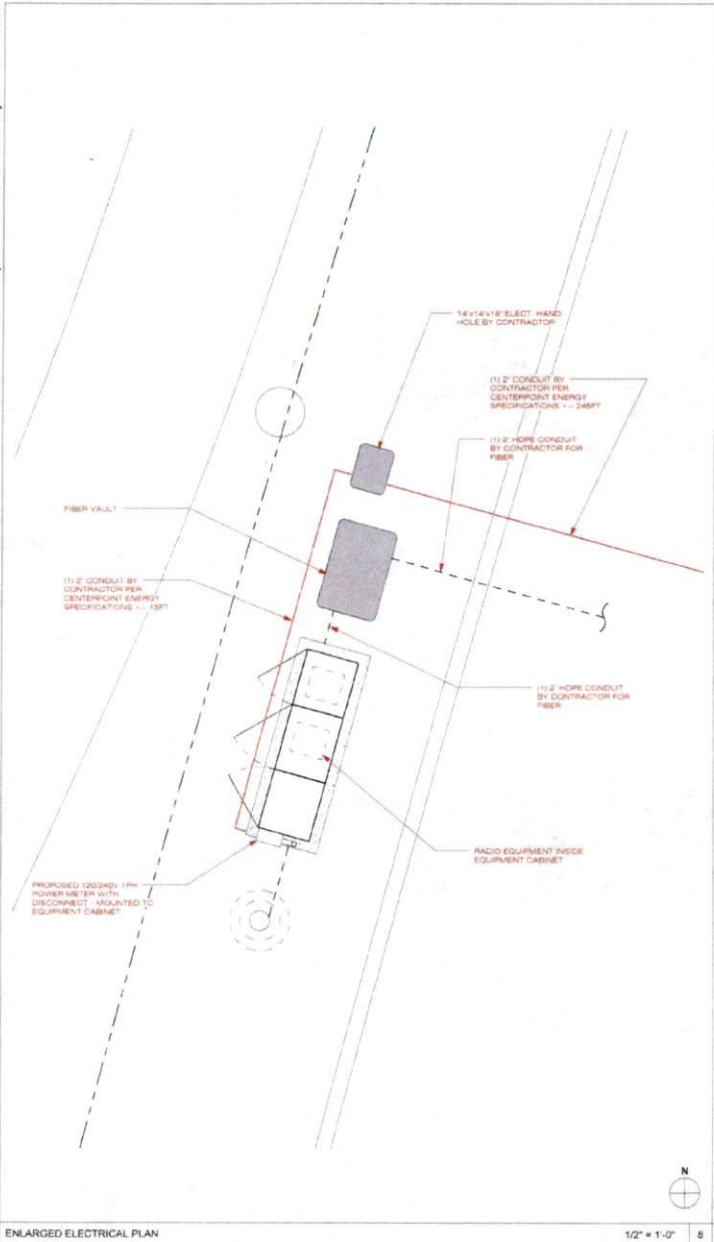
SHEET NUMBER
D1.2

PAGE
8 OF 14

PLOT SCALE: 1" = 24' (30'); 1" = 12' (12')

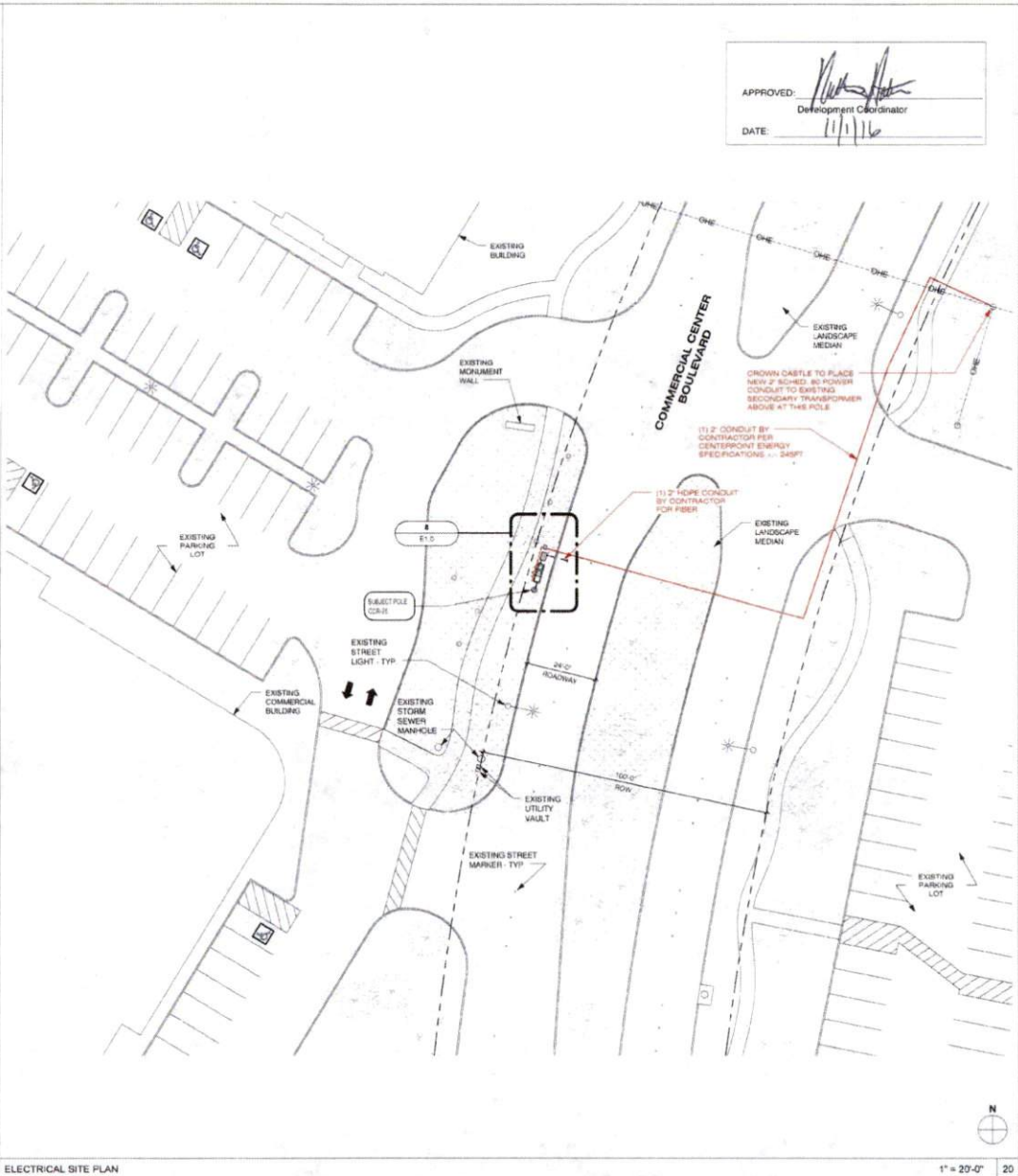
PLAN CHECK

CASE



ENLARGED ELECTRICAL PLAN

1/2" = 1'-0"



ELECTRICAL SITE PLAN

1" = 20'-0"

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

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

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

SHIFT
Shift Companies, LLC
7011 E. 10th Street, Suite 600
Scottsdale, Arizona 85257
PH: 480.344.0800
FX: 480.344.0552

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RELEASE	
DATE	SUBMITTAL
6/29/16	1ST CITY SUBMITTAL
10/18/16	2ND CITY SUBMITTAL

REVISIONS		
NO	DATE	COMMENT
	10/18/16	CITY COMMENTS

PROJECT NAME
CINCO RANCH EXPANSION

NODE ADDRESS

NODE #CCR-25
COMMERCIAL CENTER BLVD. & CINCO VILLAGE CENTER

HUB AREA

CINCO RANCH - HGCW

SHEET JOB NUMBER
150602

DRAWN BY: RA
CHECKED BY: CM

SHEET TITLE

ELECTRICAL PLANS

SHEET NUMBER

E1.0

9 OF 14

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

PLAN CHECK #

CASE #

CADWELD DETAILS	SCALE N T S	1
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COAXIAL CABLE GROUNDING	SCALE: NTS	2
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NOTE:

1. EEC TO FIELD VERIFY ELEC. CONDITION.
2. ALL EQUIPMENT IS NEW UNLESS NOTED OTHERWISE.
3. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
4. INSTALL ADEQUATE SERVICE CONDUIT LENGTH AT THE BASE OF THE POLE TO ALLOW LOCAL UTILITY TO INSTALL UP THE POLE AND CONNECT TO UTILITY COMPANY SECONDARY LINES WITH A 12" DROP LOOSE END. (REACHED TO BE MIN. 24" IN DEPTH).
5. ALL WIRE TO BE THIN OR THIN INSULATION OR EQUIVALENT EXCEPT AS NOTED OTHERWISE.
6. ALL WIRE IN PANEL B SHALL BE SERVICED RATED BY THEIR RESPECTIVE UPSHEAM BREAKER, MIN. PROTECTIVE DEVICE. A TWO THIRTY AMP BREAKER IN PANEL B SHALL BE SERVICED RATED.
7. WHERE NECESSARY TO TERMINATE OVERSIZED CONDUCTORS, CONNECTION TO THE CONDUCTORS TO PANEL WAS APPROVED BYE USING AN NEC COMPLIANT CONNECTION.

ONE-LINE DIAGRAM SCALE: NTS

TO GROUND RIG		
GROUND BUSS BAR DETAIL	SCALE: NTS	6

GROUND ROD DETAIL SCALE: NTS

ELECTRICAL PANEL SCHEDULES

SCALE: NTS

[illegible]

EQUIPMENT GROUNDING SCHEMATIC DTL	SCALE: NTS	1
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14	ELECTRICAL NOTES	SCALE NONE	1
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CROWN CASTLE
800 E. JOHN CARPENTER FWY.
SUITE 300
IRVING, TX 76062

RECORD DRAWINGS ISSUE DATE: 10.18.16

Shift Companies, LLC
7533 E. MONTE VISTA ROAD
SCOTTSDALE, ARIZONA 85251

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$\log_{10}(\text{mg kg}^{-1}) = -0.0067 \times \text{days} + 1.98$

PROJECT NAME

CINCO RANCH EXPANSION

--	--

HUB AREA	
----------	--

CINCO RANCH - HGCW

SHIFT JOB NUMBER IN HOUSE

150602 DRAWN BY: R
CHECKED BY: C

SHEET TITLE

ELECTRICAL DETAILS

ELECTRICAL DETAILS

SHEET NUMBER PAGE

E1.1 10 OF 14

PLATE 10. (A) 1.3, (B) 3.4, (C) 5.0, (D) 1.3-1.7

PLOT SCALE: 1"=24' 0"; 1/2"=11' 0"