



Development Review (Minor) Staff Approval

36-SA-2020
At&T CRAN Hub P732

APPLICATION INFORMATION

LOCATION:	7014 E Camelback Rd	APPLICANT:	Rosen Kirilov
PARCEL:	173-37-009	COMPANY:	Bechtel Infrastructure & Power Corp
Q.S.:	18-44	ADDRESS:	2601 S 37Th St 200 Phoenix, AZ 85034
ZONING:	D/DRU-2 PBD DO	PHONE:	623-282-3039

Request: Install new conduit and fiber from Scottsdale Road to the At&T CRAN Hub.☐

STIPULATIONS

1. Improvement shall be consistent with the building elevations submitted by Bechtel & AT&T, with a date of 1/24/2020.

CONSTRUCTION DOCUMENT PLAN REVIEW SUBMITTAL REQUIREMENTS

No additional reviews or permits are required associated to this scope of work as no work is proposed within the public ROW.

Expiration of Development Review (Minor) Approval

This approval expires two (2) years from date of approval if a permit has not been issued, or if no permit is required, work for which approval has been granted has not been completed.

Staff Signature: _____

Date: _____

3/17/2020

Keith Niederer, 480-312-2953

Planning and Development Services

7447 East Indian School Road, Suite 105, Scottsdale, Arizona 85251 ♦ www.ScottsdaleAZ.gov

Development Review (Minor)

(Administrative Staff Approval)

Development Application Checklist



Official Use:

City Staff Contact: NiedererStaff Signature: [Signature]Phone: 480-312-2953Email: kniederer@scottsdaleaz.gov

Project Name:

Property's Address:

A.P.N.:

Property's Zoning District Designation:

Application Request:

Owner:

Applicant:

Company:

Company:

Address:

Address:

Phone:

Fax:

Phone:

Fax:

E-mail:

E-mail:

Submittal Requirements: Please submit materials requested below. All plans must be folded.

☒ Completed Application (this form) and Application Fee – \$ 95 (fee subject to change every July)

☒ Affidavit of Authority to Act for Property Owner, letter of authorization, or signature below

☐ Signed Owner Certification Acknowledging Receipt of Notice of Right to Appeal Exactions and Dedications

☐ Request for Site Visits and/or Inspections form

☒ Narrative – describing nature of request

☐ Homeowners or Property Owners Association Approval

☐ Color photographs of site – include area of request

☒ Site plan (1 copy(ies) indicate the extent and location of additions, buildings and other structures, dimensions of existing and proposed structures, sidewalks, and/or driveways as well as any required setbacks.

☐ Material Samples – color chips, awning fabric, glazing, etc.

☐ Elevation Drawings or Color Photo simulations (copy(ies) – of additions, buildings, or other changes with materials and colors noted and keyed

☐ Landscape Plan (copy(ies) – indicate location of existing and new plants, location and dimension of paving, a plant palette with names, symbols, sizes, spacing & quantities, and open space/landscaping calculations.

☐ Cross Sections – for all cuts and fills applications

☐ Conceptual Grading & Drainage Plan – show existing, proposed drainage flows, channels, retention, etc.

☐ Copy of Liquor License Application (for all bars or restaurants patio applications)

☐ Airport Vicinity Development Checklist

☐ Floor Plan(s) – show additions, alterations, or new structures. The floor plan shall be dimensioned and clearly delineate existing and proposed construction.

☐ Exterior Lighting – provide cut sheets, details and photometrics for any proposed lighting.

☐ Other: _____

Please indicate in the checkbox below the requested review methodology (please see the descriptions on page 2):

☒ Enhanced Application Review: I hereby authorize the City of Scottsdale to review this application utilizing the Enhanced Application Review methodology.

☐ Standard Application Review: I hereby authorize the City of Scottsdale to review this application utilizing the Standard Application Review methodology.

Owner Signature

Agent/Applicant Signature

Planning and Development Services

7447 East Indian School Road Suite 105, Scottsdale, Arizona 85251 Phone: 480-312-7000 Fax: 480-312-7088

City of Scottsdale's Website: www.scottsdaleaz.gov

Kirilov, Rosen

From: Stephen Schwan <SSchwanpe@avschwan.com>
Sent: Tuesday, February 11, 2020 8:06 AM
To: Burmesch, Thomas; Mock, Jay; Garcia, Jacob; Erickson, Bryce (BCS); Kirilov, Rosen; Deeter, Jeremy; Drummond, Kyle; Olson, Steven
Cc: Pond, Mark; Lanoue, Christina; Medrano, Marcos; Cramier, Linda; Shepard, Skyllar; Zachary Doolan
Subject: RE: P732 Fiber upgrade for AT&T site in brown garage [*EXTERNAL*]

I see no issues with your proposed routing
ss

Stephen Schwan, P.E.
sschwanpe@AVSchwan.com



[Electronic Communications Disclaimer](#)

From: Burmesch, Thomas <tburmesc@bechtel.com>
Sent: Tuesday, February 11, 2020 7:57 AM
To: Stephen Schwan <SSchwanpe@avschwan.com>; Mock, Jay <Jay.Mock@macerich.com>; Garcia, Jacob <Jacob.Garcia@macerich.com>; Erickson, Bryce (BCS) <berickso@Bechtel.com>; Kirilov, Rosen <rekirilo@Bechtel.com>; Deeter, Jeremy <jadeeter@bechtel.com>; Drummond, Kyle <ktdrummo@bechtel.com>; Olson, Steven <stolson@bechtel.com>
Cc: Pond, Mark <Mark.Pond@macerich.com>; Lanoue, Christina <Christina.Lanoue@macerich.com>; Medrano, Marcos <Marcos.Medrano@macerich.com>; Cramier, Linda <Linda.Cramier@macerich.com>; Shepard, Skyllar <Skyllar.Shepard@macerich.com>; Zachary Doolan <Zachary.Doolan@aus.com>
Subject: RE: P732 Fiber upgrade for AT&T site in brown garage

Hi Stephen,

Thank you for meeting us out on site. I have revised our Design package per your concerns as noted below – see attached. This should be no problem. Please confirm this is approved.

Jay – If you could confirm that your team approves this as well, and then please advise on the next step so we can schedule the work.

Thank you,



T.J. Burmesch, PE | Lead Market Engineer | Bechtel Infrastructure and Power Corp.

2601 S. 37th Street, Suite 200 | Phoenix, AZ 85034 | C: 480-236-3597

E: tburmesch@bechtel.com | W: www.bechtel.com

*Licensed Civil Engineer in AZ, NM, & WI

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Level 3 - Bechtel Internal and Selected External Distribution

From: Stephen Schwan <[SSchwanpe@avschwan.com](mailto:sschwanpe@avschwan.com)>

Sent: Tuesday, February 4, 2020 10:03 AM

To: Mock, Jay <Jay.Mock@macerich.com>; Garcia, Jacob <Jacob.Garcia@macerich.com>; Burmesch, Thomas <tburmesch@bechtel.com>; Erickson, Bryce (BCS) <berickso@Bechtel.com>

Cc: Pond, Mark <Mark.Pond@macerich.com>; Lanoue, Christina <Christina.Lanoue@macerich.com>; Medrano, Marcos <Marcos.Medrano@macerich.com>; Cramier, Linda <Linda.Cramier@macerich.com>; Shepard, Skyllar <Skyllar.Shepard@macerich.com>; Zachary Doolan <Zachary.Doolan@aus.com>

Subject: RE: Fiber upgrade for AT&T site in brown garage [*EXTERNAL*]

Visited the site this morning to review final proposed locations.

The routing and core drilling of the precast Double Tee Flanges are structurally acceptable. The exception is on the ground floor where the proposed routing is thru a precast column, see attached.

SS

Stephen Schwan, P.E.

sschwanpe@AVSchwan.com



A.V. SCHWAN & ASSOCIATES

CONSULTING STRUCTURAL ENGINEERS

6000 E. Thomas Road, Suite 1

Scottsdale, Arizona 85251

(602) 265-4331

www.AVSchwan.com

[Electronic Communications Disclaimer](#)

From: Mock, Jay <Jay.Mock@macerich.com>

Sent: Tuesday, September 17, 2019 3:21 PM

To: Stephen Schwan <[SSchwanpe@avschwan.com](mailto:sschwanpe@avschwan.com)>; Garcia, Jacob <Jacob.Garcia@macerich.com>

Cc: Pond, Mark <Mark.Pond@macerich.com>; Lanoue, Christina <Christina.Lanoue@macerich.com>; Medrano, Marcos <Marcos.Medrano@macerich.com>; Cramier, Linda <Linda.Cramier@macerich.com>; Shepard, Skyllar

<Skylar.Shepard@macerich.com>; Zachary Doolan <Zachary.Doolan@aus.com>

Subject: RE: Fiber upgrade for AT&T site in brown garage

Thank you Stephen,

I will have the AT&T representative from Bechtel work with you on proper routing.

Thank you,

Jay Mock | Smart Building Engineer, Information Technology

.....
Macerich

11411 N Tatum Blvd

Phoenix, AZ 85028

p. 602.953.6554

c. 480.399.6679

From: Stephen Schwan [<mailto:SSchwanpe@avschwan.com>]

Sent: Tuesday, September 17, 2019 2:52 PM

To: Garcia, Jacob <Jacob.Garcia@macerich.com>; Mock, Jay <Jay.Mock@macerich.com>

Cc: Pond, Mark <Mark.Pond@macerich.com>; Lanoue, Christina <Christina.Lanoue@macerich.com>; Medrano, Marcos <Marcos.Medrano@macerich.com>; Cramier, Linda <Linda.Cramier@macerich.com>; Shepard, Skylar <Skylar.Shepard@macerich.com>; Zachary Doolan <Zachary.Doolan@aus.com>

Subject: RE: Fiber upgrade for AT&T site in brown garage

The garage is a precast prestressed concrete structure and is not a cast in place post tensioned structure.

Coring of the flange "DT's" is very doable. Coring of the DT stems and spandrel panels are not advised. So routing is key.

I see no proposed routing of the new lines.

SS

Stephen Schwan, P.E.

sschwanpe@AVSchwan.com



A.V. SCHWAN & ASSOCIATES

CONSULTING STRUCTURAL ENGINEERS

6000 E. Thomas Road, Suite 1

Scottsdale, Arizona 85251

(602) 265-4331

www.AVSchwan.com

[Electronic Communications Disclaimer](#)

From: Garcia, Jacob <Jacob.Garcia@macerich.com>

Sent: Tuesday, September 17, 2019 10:38 AM

To: Stephen Schwan <SSchwanpe@avschwan.com>; Mock, Jay <Jay.Mock@macerich.com>

Cc: Pond, Mark <Mark.Pond@macerich.com>; Lanoue, Christina <Christina.Lanoue@macerich.com>; Medrano, Marcos <Marcos.Medrano@macerich.com>; Cramier, Linda <Linda.Cramier@macerich.com>; Shepard, Skyllar <Skyllar.Shepard@macerich.com>; Zachary Doolan <Zachary.Doolan@aus.com>
Subject: Fiber upgrade for AT&T site in brown garage

Hi Stephen,
See the plans and email below. What are your thoughts of coring each deck.

Jay - Lets have AT&T use Stephen for any core approval. That's what I do at the mall.

Thank You

Jacob Garcia | Operations Manager

.....
Scottsdale Fashion Square
7014 E. Camelback Road, Suite 2132
Scottsdale, AZ 85251
p. 480-945-5495
f. 480-423-1455

From: Mock, Jay
Sent: Tuesday, September 17, 2019 9:57 AM
To: Garcia, Jacob <Jacob.Garcia@macerich.com>; Pond, Mark <Mark.Pond@macerich.com>
Subject: fiber upgrade for AT&T site in brown garage

Hi Jacob and Mark,

AT&T is wanting to do a fiber cabling update for their cellular site in the brown garage. I've attached the plans for your review. I've walked it myself.

They will be using existing Cox conduit from Scottsdale Rd. and pulling new inner-duct and fiber up to their site. They plan to install a new 4" conduit from a pull box at the base of the garage up to their cellular site. They will be using ground penetrating radar at each floor to check for obstructions, so they can core each floor for the new conduit. My only concern is the space in each corner of the parking garage floors for the new conduit. Let me know your thoughts and if you'd like to take a look at it together. They are looking to start this project soon. Since they are only going to the garage using existing conduit, I don't think we need to do a retroactive access agreement. Let me know if you'd like to walk it. Otherwise they are just seeking approval to do the work.

Thank you,

Jay Mock | Smart Building Engineer, Information Technology

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Macerich
11411 N Tatum Blvd
Phoenix, AZ 85028
p. 602.953.6554
c. 480.399.6679

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BUILDING CODE: INTERNATIONAL BUILDING CODE 2012
ELECTRICAL CODE: NATIONAL ELECTRICAL CODE 2011
LIGHTNING PROTECTION CODE: NFPA 780 – 2000, LIGHTNING PROTECTION CODE

SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

CODE COMPLIANCE

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

GENERAL NOTES



TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN ARIZONA, CALL ARIZONA 811

TOLL FREE: 1-800-782-5348 OR

www.arizona811.com

Know what's below.
Call before you dig.

ARIZONA STATUTE
REQUIRES MIN OF 2
WORKING DAYS NOTICE
BEFORE YOU EXCAVATE

PROPERTY OWNER: SCOTTSDALE FASHION SQUARE LLC
ADDRESS: 7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251
APPLICANT: AT&T
ADDRESS: 1355 WEST UNIVERSITY DRIVE,
MESA, AZ 85201-5419
LATITUDE: 33° 30' 16.40" N
33.5045556
LONGITUDE: 111° 55' 40.69" W
-111.9279722
LONGITUDE/LATITUDE TYPE: NAD 83
GROUND ELEVATION (NAVD 88): 1287.00' AMSL
ADJACENT APN #: 172-37-009A/173-37-009B
ZONING JURISDICTION: CITY OF SCOTTSDALE
COUNTY: MARICOPA
CURRENT ZONING: D/RCO-2
PROPOSED USE: UNMANNED TELECOMMUNICATIONS FACILITY

SITE INFORMATION

PROJECT MANAGER:
AT&T Mobility
1355 WEST UNIVERSITY, FLR.3
MESA, AZ 85201
CONTACT: ROBERT MANNINO
480-570-4500

SAC/ZONING/PERMITTING:
Bechtel Infrastructure & Power Corp.
8323 WEST SHERMAN STREET.
TOLLESON, AZ 85353
CONTACT: AMY JULIEN
925-389-4197
ajulien@bechtel.com

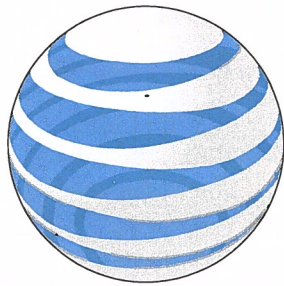
SENIOR TECHNICAL PROJECT MANAGER:

AT&T Mobility
1355 WEST UNIVERSITY DRIVE.
MESA, AZ 85201-5419
CONTACT: Shah Khalid
480-444-4689
shah.khalid@att.com

ENGINEER:
Bechtel Infrastructure & Power Corp.
8323 WEST SHERMAN STREET.
TOLLESON, AZ 85353
CONTACT: Thomas Burmesch
623-282-3015
tburmesch@bechtel.com

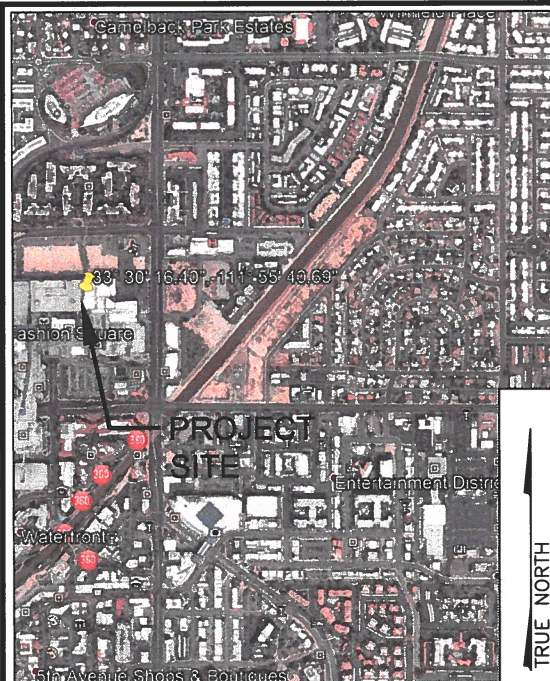
CONSTRUCTION GC:
Bechtel Infrastructure & Power Corp.
8323 WEST SHERMAN STREET.
TOLLESON, AZ 85353
CONTACT: MARC TISHUCK
623-282-3092
mtishuck@bechtel.com

PROJECT TEAM

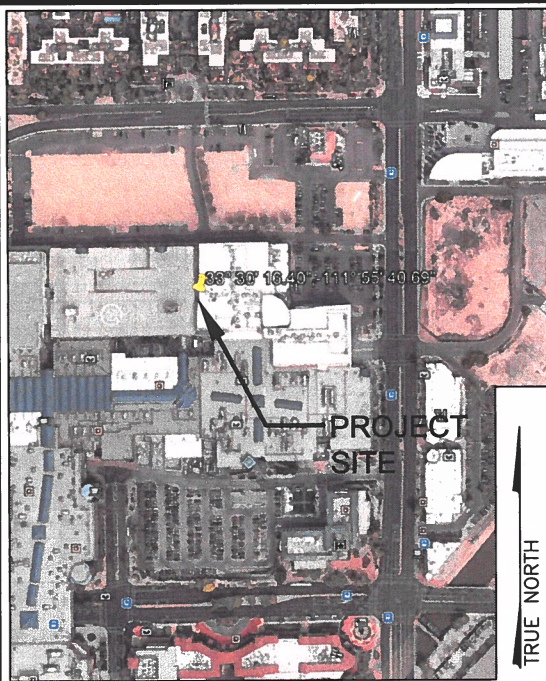


AT&T

PROJECT: CRAN HUB
SITE NO: P732
SITE NAME: SCOTTSDALE MALL-
SCOTTSDALE FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 51281
CRAN FA: 10093323
USID: 51281
CLUSTER PHX_36: 03 NODES
CLUSTER PHX_54: 01 NODES
CLUSTER PHX_68: 01 NODES
CLUSTER PHX_80: 13 NODES



VICINITY MAP



LOCAL MAP

FROM AT&T OFFICE: 1355 WEST UNIVERSITY DRIVE, MESA, AZ 85201-5419:

GET ON AZ-101 LOOP N FROM W UNIVERSITY DR, CONTINUE TO W UNIVERSITY DR, DRIVE FROM AZ-101 LOOP N, E INDIAN SCHOOL ROAD AND E CAMELBACK RD TO SCOTTSDALE, SITE WILL BE ON LEFT.

DRIVING DIRECTIONS

IF USING 11"x17" PLOT, DRAWINGS WILL BE HALF SCALE

CONSTRUCTION DRAWING

SCOPE OF WORK:
AT&T PROPOSES TO MODIFY, OPERATE AND MAINTAIN AN EXISTING UNMANNED TELECOM FACILITY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

CRAN SCOPE:

- INSTALL (3) (N) FSM4 AND (2) (N) SIAD 7705 IN (4) (N) CRAN PURCELL STACKED CABINETS.
- INSTALL (1) (N) CRAN GPS ANTENNA ON (E) WALL.

POWER PLANT REVIEW:

- (1) (E) VERTIV NETSURE -48V DCPP EQUIPPED WITH (14) (E) 2kW RECTIFIERS & (8) (E) CONVERTERS ARE SUFFICIENT FOR PROPOSED LOADS.

NEW BREAKERS/FUSES:

- (2) (N) 60A BREAKERS FOR EACH CRAN PURCELL CABINET (8 TOTAL)
- (2) (N) 15A GMT FUSES PER SIAD
- (2) (N) 20A GMT FUSES PER FSM4

BATTERY SCOPE:

- (2) (E) STRINGS (8 CELLS) OF MARATHON M12V155FT BATTERIES IN (E) BATTERY CABINET.
- (3) (E) STRINGS (12 CELLS) OF MARATHON M12V155FT BATTERIES IN (1) (E) VERTIV NETSURE DCPP.
- (5) (E) STRINGS (20 CELLS) ARE SUFFICIENT WITH ESTIMATED BATTERY RESERVE TIME OF 4.25 Hrs.

AC PANEL REVIEW:

- REFER AC PANEL SCHEDULE

HUB EXPANSION SCOPE

TELCO SCOPE

- BORE & INSTALL (3) (N) 4" CONDUIT W/ (3) (N) INNERDUCT EACH FROM (N) VAULT TO (N) MEET POINT VAULT ON SCOTTSDALE BLVD APPROX 600'
- REMOVE (1) (E) VAULTS & INSTALL (1) (N) VAULTS 36"x48" (FIBER PULL BOX)
- INSTALL (N) TRAFFIC RATED AT&T 36" X 48" MEET POINT VAULT ON THE INSIDE OF THE PROPERTY LINE
- INSTALL (1) (N) FIBER CHASE, PAINTED TO MATCH BUILDING TO TRANSITION FIBER PATH FROM CONDUITS INTO (N) VAULT & (4) (N) 2" CONDUITS W/ 1 INNERDUCT IN EACH.
- REMOVE (E) CONDUIT AND LB, AND TRANSITION FIBER INTO (N) CHASE
- INSTALL (3) (N) 4" CONDUITS W/ 3 INNERDUCTS IN EACH FROM 1ST LEVEL TO AT&T EQUIPMENT 5TH LEVEL.
- CORE DRILL (4) (N) 3" HOLES THROUGH (E) CONCRETE WALL AT 1ST LEVEL.
- (3) (N) 4.5" CORE DRILLS THROUGH CONCRETE FLOOR AND DOUBLE T FLANGE FOR EACH FLOOR FROM 5TH FLOOR TO 2ND FLOOR

PROJECT DESCRIPTION

SHEET	DESCRIPTION
T01	TITLE SHEET
T02	GENERAL NOTES, LEGEND AND ABBREVIATIONS
A01	SITE PLAN
A02	EQUIPMENT PLAN
A03	DETAILS
A04	DETAILS
A05	AC PANEL SCHEDULE AND DETAILS
A06	DETAILS
A07	DETAILS
A08	DETAILS
A09	FIBER EASEMENT (BY OTHER)

SHEET INDEX

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DO NOT SCALE DRAWINGS

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



**BECHTEL INFRASTRUCTURE
AND POWER CORPORATION**
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: NK
CHECKED BY: KP

REVISIONS:

REV	DATE	DESCRIPTION	BY
1	01/24/20	ADD TELCO SCOPE	AKD
0	12/05/18	ISSUED FOR CONSTRUCTION	NK
B	11/21/18	ISSUED FOR REVIEW	SG
A	11/16/18	ISSUED FOR REVIEW	GS

LICENSER:



EXPIRES 03/31/2022

PROJECT INFORMATION:

P732
**SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR**
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T01

LEGEND:

	NEW ANTENNA		(E) BRICK		POWER/TELCO RUN		5/8" x 10'-0" ,CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
	EXISTING ANTENNA		(E) MASONRY		GAS LINE		CHEMICAL GROUND ROD (XIT GROUND ROD)
	GROUND ROD		CONCRETE		GROUNDING CONDUCTOR		STORM DRAIN
	GROUND BUS BAR		EARTH		WATER LINE		SEWER LINE
	MECHANICAL GRND. CONN.		GRAVEL		SEWER LINE		
	CADWELD		PLYWOOD		CONDUIT UNDERGROUND		
	GROUND ACCESS WELL		SAND		FUSE, SIZE AND TYPE AS INDICATED.		CIRCUIT BREAKER
	ELECTRIC BOX		WOOD CONT.		SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R ENCLOSURE, SQ D CATALOG NO. H222NRB		UTILITY METER BASE
	TELEPHONE BOX		WOOD BLOCKING		MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE		TRANSFORMER
	LIGHT POLE		STEEL		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T		STEPDOWN TRANSFORMER
	FND. MONUMENT		CENTERLINE		LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T		RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBELL CATALOG #5362
	SPOT ELEVATION		PROPERTY/LEASE LINE		LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121		TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
	SET POINT		MATCH LINE		EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB		TOGGLE SWITCH, 1P-120V-15A, "WP"
	REVISION		WORK POINT		COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC		IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO. 7100F
	GRID REFERENCE		GROUND CONDUCTOR		EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HEB-50-2-R91		POLE
	DETAIL REFERENCE		COAXIAL CABLE		LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1		(N) POLE MOUNTED XFMR
	ELEVATION REFERENCE		OVERHEAD SERVICE CONDUCTORS		LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #QL-505		(E) POLE MOUNTED XFMR
	SECTION REFERENCE		CHAIN LINK FENCING		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		(N) PAD MOUNTED XFMR
			OVERHEAD TELEPHONE/OVERHEAD POWER		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		(E) PAD MOUNTED XFMR
			OVERHEAD TELEPHONE LINE		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		CLEARANCE FOR CABINET
			OVERHEAD POWER LINE		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		
			POWER RUN		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		
			FIBER/POWER RUN		LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336		

ABBREVIATIONS

A.	AMPERE	EMT.	ELECTRICAL METALLIC TUBING	MTL.	METAL	TEMP.	TEMP.
A.B.	ANCHOR BOLT	E.N.	EDGE NAIL	M.TS.	MANUAL TRANSFER SWITCH	THK.	THICK(NESS)
ABV.	ABOVE	N ENCL.	ENCLOSURE	N	NEUTRAL	TMAS	TOWER MOUNTED AMPLIFIER
AC	ALTERNATE CURRENT/AIR CONDITIONER	ENG.	ENGINEER	(N)	NEW		(DC SUPPLY VOLTAGE)
ACCA	ANTENNA CABLE COVER ASSEMBLY	EQ.	EQUAL	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	T.N.	TOE NAIL
ADD'L	ADDITIONAL	EXST. OR (E)	EXISTING	NO. (#)	NUMBER	T.O.A.	TOP OF ANTENNA
A.F.F.	ABOVE FINISHED FLOOR	EXP.	EXPANSION	N.T.S.	NOT TO SCALE	T.O.C.	TOP OF CURB
A.F.G.	ABOVE FINISHED GRADE	EXT.	EXTERIOR	OBIF	OPTICAL BASEBOARD INTERFACE	T.O.F.	TOP OF FOUNDATION
A.G.L.	ABOVE GROUND LEVEL	F.	FUTURE	OH	OVERHEAD	T.O.P.	TOP OF PLATE (PARAPET)
AIC	AMPERE INTERRUPTING CAPACITY	FAB.	FABRICATION(OR)	O.C.	ON CENTER	T.O.S.	TOP OF STEEL
ALUM.	ALUMINUM	FAC.	FACTOR	OPNG.	OPENING	T.O.W.	TOP OF WALL
ALT.	ALTERNATE	F/A	FIRE ALARM	P	POLE	TYP.	TYPICAL
ANT.	ANTENNA	F.F.	FINISH FLOOR	(P)	PROPOSED	U.G.	UNDER GROUND
APPROX.	APPROXIMATE(LY)	F.G.	FINISH GRADE	P/C	PRECAST CONCRETE	U.L.	UNDERWRITERS LABORATORY INC.
ARCH.	ARCHITECT(URAL)	FIN.	FINISH (ED)	PCS	PERSONAL COMMUNICATION SERVICES	UMTS	UNIVERSAL MOBIL TECH. SYS. (3G MOBILE TECH.)
AT.	AMPERE TRIP	FLR	FLOOR	PH	PHASE	U.N.O.	UNLESS NOTED OTHERWISE
AWG.	AMERICAN WIRE GAUGE	FLUOR	FLUORESCENT	PLY.	PLYWOOD	V	VOLT
BATT.	BATTERY	FDN.	FOUNDATION	PNLBD	PANELBOARD	VAC	VOLT ALTERNATING CURRENT
BD.	BOARD	F.O.C.	FACE OF CONCRETE	PPC	POWER PROTECTION CABINET	V.I.F.	VERIFY IN FIELD
BUDG.	BLOCK	F.O.M.	FACE OF MASONRY	PRC	PRIMARY RADIO CABINET	W	WATT OR WIRE
BLK.	BLOCKING	F.O.S.	FACE OF STUD	PRI	PRIMARY	WD	WIDE(WIDTH)
BLKG.	BLOCKING	F.O.W.	FACE OF WALL	P.S.F.	POUNDS PER SQUARE FOOT	W/O	WITH
BM.	BEAM	F.S.	FINISH SURFACE	P.S.I.	POUNDS PER SQUARE INCH	W/O	WITHOUT
B.N.	BOUNDARY NAILING	FT. (")	FOOT (FEET)	P.T.	PRESSURE TREATED	WD.	WOOD
BR.	BRANCH	FTG.	FOOTING	PUE	PUBLIC UTILITY EASEMENT	W.F.	WEATHERPROOF
BRKR.	BREAKER	FU	FUSE	PWR.	POWER (CABINET)	WT.	WEIGHT
BTWC.	BARE TINNED COPPER WIRE	G	GROUND	QTY.	QUANTITY	WT.	WIRELESS TRANSMISSION RATE
BTS.	BASE TRANSMISSION SYSTEM	GR	GROWTH (CABINET)	RAD.(R)	RADIUS	XFER	TRANSFER
B.O.F.	BOTTOM OF FOOTING	GA.	GAUGE	RBS	RADIO BASE STATION	XFMR	TRANSFORMER
B/U	BACK-UP CABINET	GEN.	GENERATOR		(BASE STATION 3G NETWORKS)	XLPE	CROSS-LINK POLYETHYLENE
CAB.	CABINET	GI.	GALVANIZED(D)	RCPT.	RECEPTACLE	C	CENTERLINE
CANT.	CANTILEVER(ED)	G.F.C. I.	GROUND FAULT CIRCUIT INTERRUPTER	REF.	REFERENCE	E	PLATE, PROPERTY LINE
CB.	CIRCUIT BREAKER	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	REF.	REINFORCEMENT(ING)		
CDMA	CODE-DIVISION MULTIPLE ACCESS (2G & 3G)	GND	GROUND	REQ.D.	REQUIRED		
CDUK	CONSOLIDATION DISTRIBUTION UNIT KIT	GPS	GLOBAL POSITIONING SYSTEM	RGS	RIGID GALVANIZED STEEL		
C.I.F.	CAST IN PLACE	GRND.	GROUND	RRH	REMOTE RADIO HEAD		
CKT.	CIRCUIT	GSM	GLOBAL SYSTEM MOBILE (2G+ MOBILE TECH.)		(RADIO TRANSCIVER)		
CLG.	CEILING	ICJG	HEADER	RX-AIT	RECEIVER AIR INTERFACE TRAY		
CLR.	CLEAR	HGR.	HANGER	SAF	SAFETY		
CMU	CONCRETE MASONRY UNIT (JAMB BALKS)	HPS	HIGH PRESSURE SODIUM	SC	SCHEDULE		
COL.	COLUMN	HT.	HEIGHT	SDBC	SOFT DRAWN BARE COPPER		
CONC.	CONCRETE	ICGB	ISOLATED COPPER GROUND BUS	SEC	SECONDARY		
CONN.	CONNECTION(OR)	INCH (")	INCH(ES)	SHT.	SHEET		
CONST.	CONSTRUCTION	INT.	INTERIOR	SIM.	SIMILAR		
CONT.	CONTINUOUS	I.L.C	INTEGRATED LOAD CENTER	S.N.	SOLID NEUTRAL		
d	PENNY (NAILS)	LB. (#)	POUND(S)	SPEC.	SPECIFICATION(S)		
DBL.	DOUBLE	LAG	LAG BOLTS	SQ.	SQUARE		
DC	DIRECT CURRENT	LG.	LINEAR FEET (FOOT)	S.S.	STAINLESS STEEL		
DEM.	DEMAND	L	LENGTH	STD.	STANDARD		
DEPT.	DEPARTMENT	LPS	LONG(TUDINAL)	STL	STEEL		
D.F.	DOUGLAS FIR	LTE	LONG TERM EVOLUTION (4G MOBILE TECH.)	STRUC.	STRUCTURAL		
DIA.	DIAMETER	MAS.	MASONRY	SURF	SURFACE		
DIA.G.	DIAGONAL	MAX.	MAXIMUM	SW	SWITCH		
DIM.	DIMENSION	M.B.	MACHINE BOLT				
DWG.	DRAWING(S)	MECH.	MECHANICAL				
DWL.	DOWEL(S)	MFR.	MANUFACTURER				
EA.	EACH	MIN.	MINIMUM				
EGR.	EMERGENCY GENERATOR RECEPTACLE	MISC.	MISCELLANEOUS				
EL.	ELEVATION	MLO	MAIN LUGS ONLY				
ELEC.	ELECTRICAL	MTD.	MOUNTED				
ELEV.	ELEVATOR						

GENERAL NOTES

1. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTRACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
13. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
14. BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES.
15. THE CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE AND KEEP SAME ON SITE WHENEVER PERSONNEL ARE ON SITE.
16. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
17. CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
18. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



**BECHTEL INFRASTRUCTURE
AND POWER CORPORATION**
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY:

NK

CHECKED BY:

KP

REVISIONS:

1	01/24/20	ADD TELCO SCOPE	AKD
0	12/05/18	ISSUED FOR CONSTRUCTION	NK
B	11/21/18	ISSUED FOR REVIEW	SG
A	11/16/18	ISSUED FOR REVIEW	GS
REV	DATE	DESCRIPTION	BY

LICENSER:



EXPIRES 03/31/2022

PROJECT INFORMATION:

P732
SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

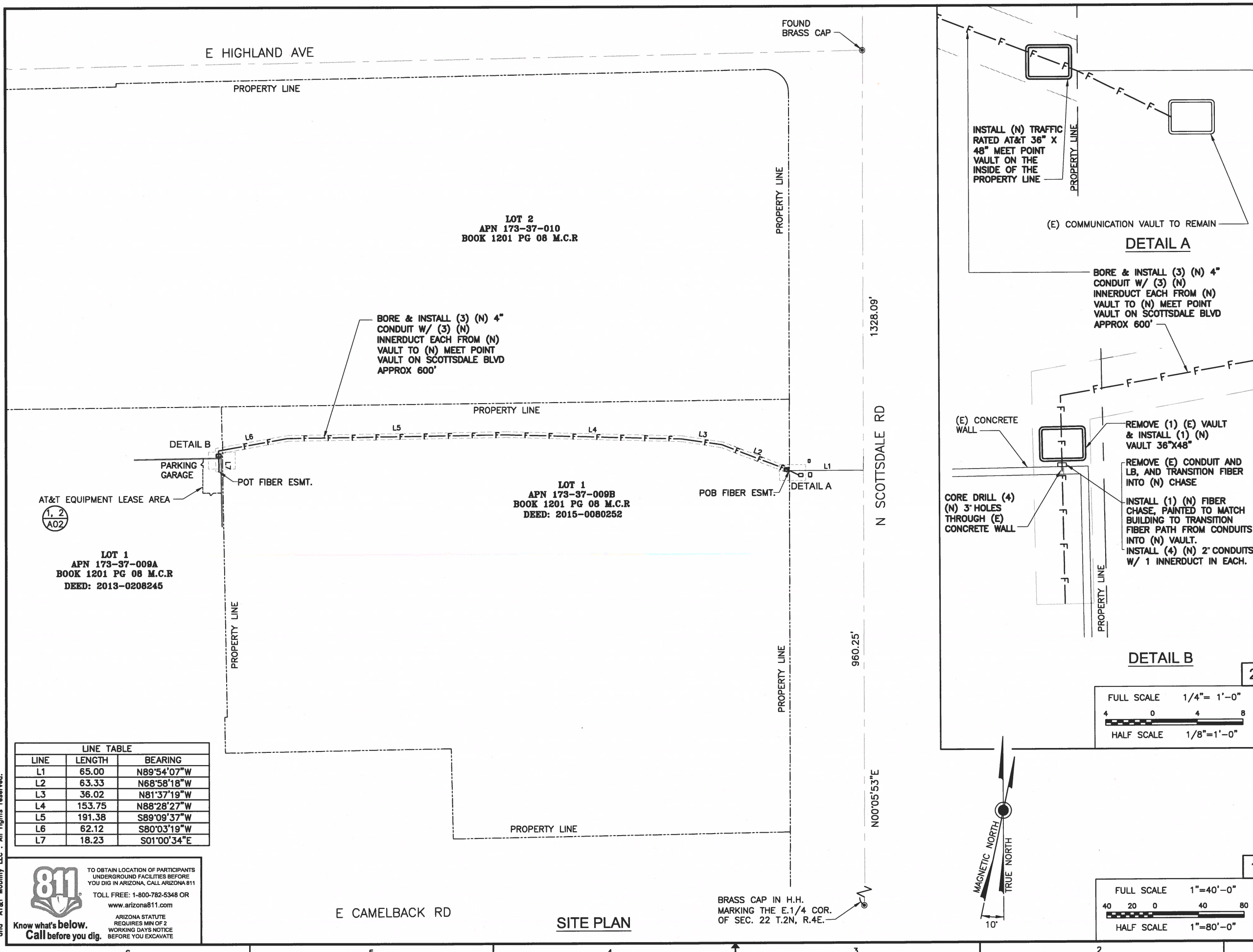
SHEET TITLE:

GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET NUMBER:

T02

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ENGINEER:



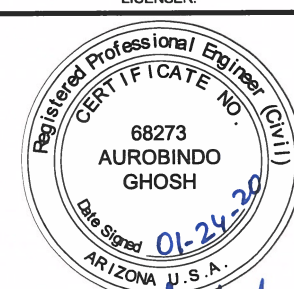
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AND POWER CORPORATION**
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CHECKED BY:	KP

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REV	DATE	DESCRIPTION	BY

L I C E N S E R:



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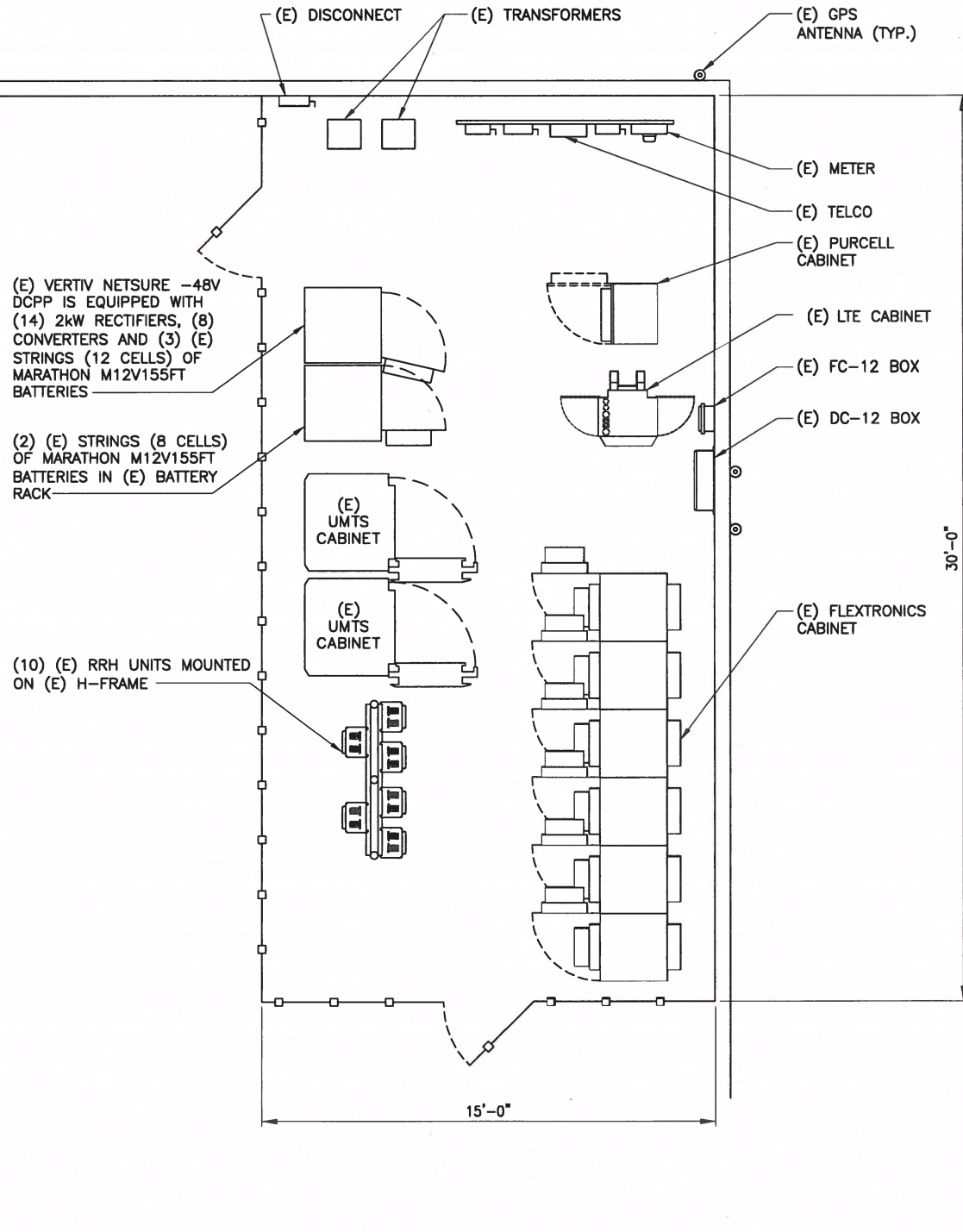
SITE PLAN

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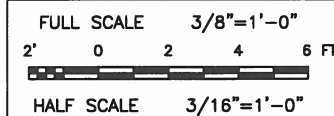
A01

22 x 34 "D" SZ
PSC: : :

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(E) EQUIPMENT PLAN
(OUTDOOR SITE, 5TH LEVEL)



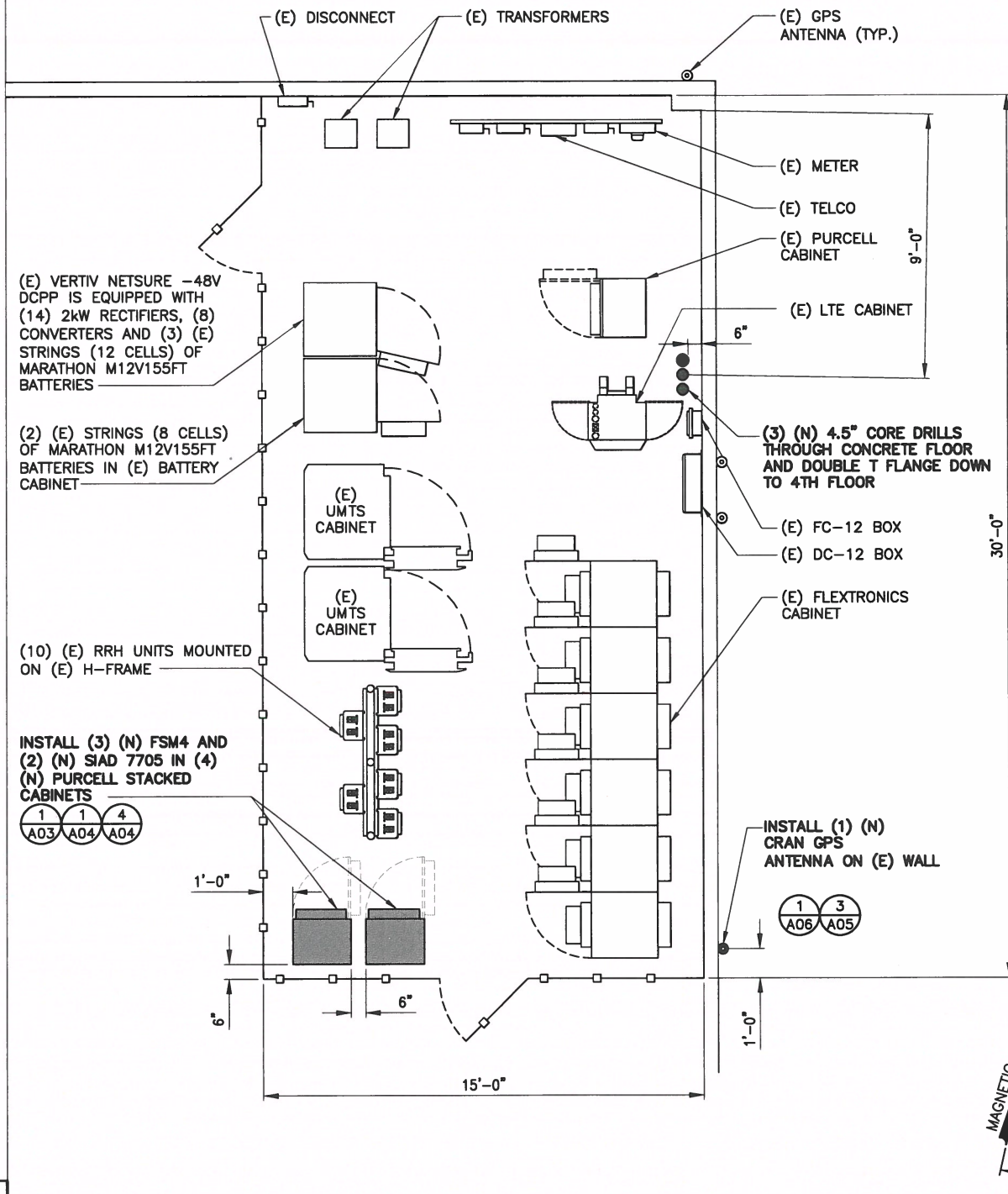
BREAKER SCHEDULE:

(N) BREAKERS/FUSES

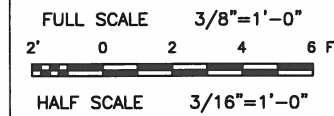
- (2) (N) 60A BREAKERS FOR EACH CRAN PURCELL CABINET (8 TOTAL)
- (2) (N) 15A GMT FUSES PER SIAD
- (2) (N) 20A GMT FUSES PER FSM4

NOTE:

- INSTALL FIBER TRUNK/FIBER TRAY.
- INSTALL FIBER JUMPER FROM LNS TO (N) SIAD.
- INSTALL FIBER JUMPER FROM SIAD TO FSM4.



(P) EQUIPMENT PLAN
(OUTDOOR SITE, 5TH LEVEL)



APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



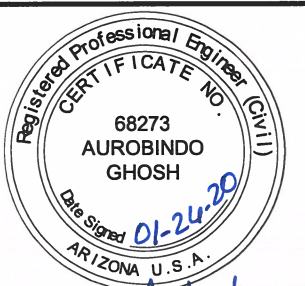
**BECHTEL INFRASTRUCTURE
AND POWER CORPORATION**
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: NK
CHECKED BY: KP

REVISIONS:

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LICENSER:



EXPIRES 03/31/2022

PROJECT INFORMATION:

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FASHION CTR**
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

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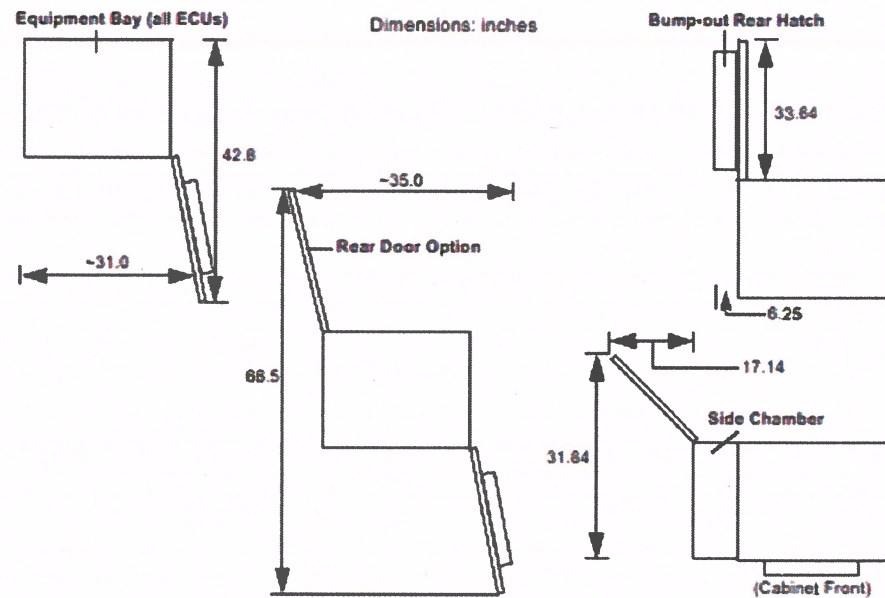
EQUIPMENT PLAN

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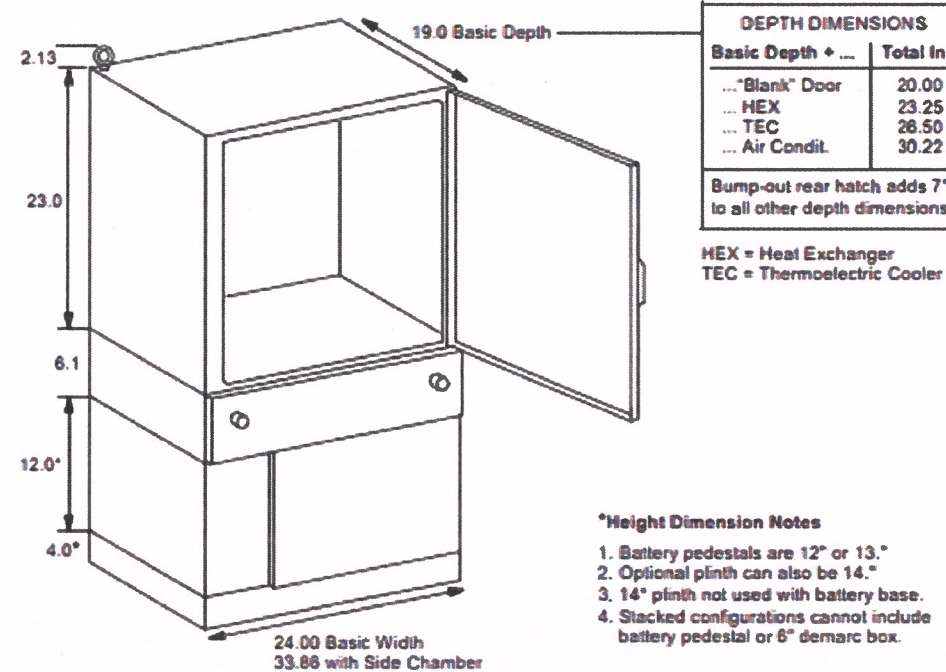
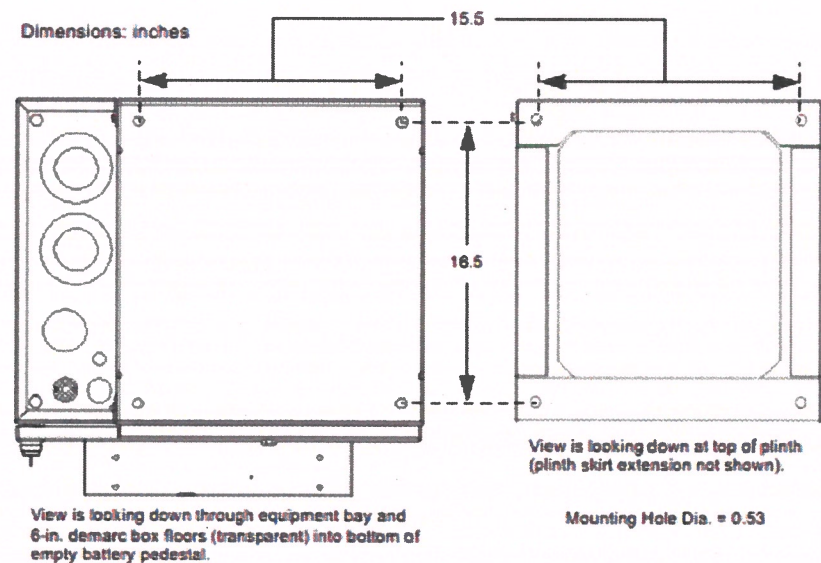
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22 x 34" SIZE
PSC- : :

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This illustration shows the cabinet mounting bolt pattern dimensions, for both battery pedestal and plinth—spacing and hole size are identical.



FLX 12 - 2420 PURCELL CABINET

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



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26134-627-C0-0000-00170-001

SHEET TITLE:

DETAILS

SHEET NUMBER:

A03

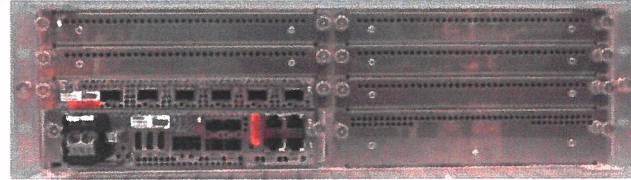
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- FROM SOUT TO SIN ASIA PORTS
- LENGTH - 27.6"

GPS SYNC CABLE
(FSM4)

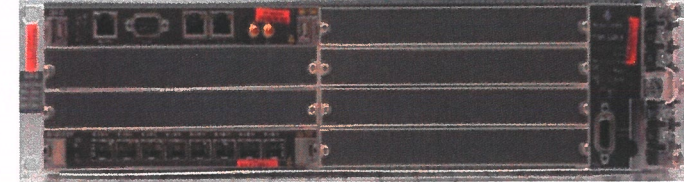
7



- HXWXD – 5.05" X 19" X 15.75" (3U)
- WEIGHT – 50 LBS. FULLY LOADED
- POWER CONSUMPTION – 1200 WATTS MAX
- DC FEED – 20 AMP FUSE
- 1 ASIA & 3 ABIA SFP'S INCLUDED
- WIRE SIZE – 12 AWG

FSM4
(1 ABIA & 1 ASIA)

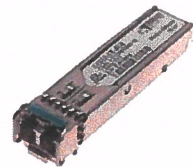
4



- HXWXD – 3.5" X 17.5" X 9.8" (2U)
- WEIGHT – 16 LBS.
- BTU'S – 2730 PER HOUR
- WATTS – 800 MAX
- DC FEED - TWO 15 AMP FUSES
- BBU'S - 5 MAX

ALU 7705 SAR-8 V.2
(1 ETHERNET CARD + 2 FIBER/1 COPPER SFP)
+24/-48VDC
(SIAD)

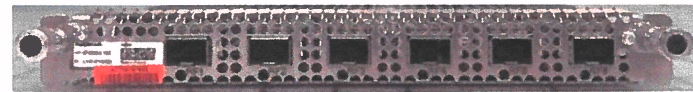
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- CPRI PART # - 1AB410060001
- RATE 7

ABIA SFP
(FSM4)

8



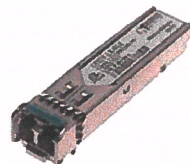
ABIA CARD
(FSM4)

5



FIBER SFP's
V.3 ETHERNET CARD
(SIAD)

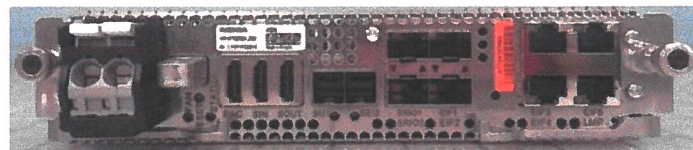
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- BACKHAUL PART # - 3HE00028CA

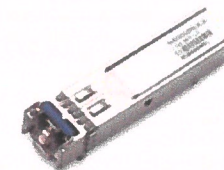
ASIA SFP
(FSM4)

9



ASIA CARD
(FSM4)

6



- FOR CPRI & BACKHAUL
- 3HE00028CA

FIBER SFP's
SM/LX/1310nm
(SIAD)

3

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



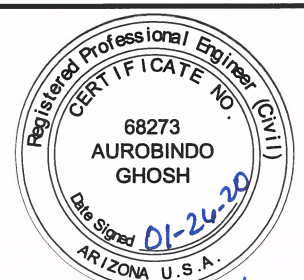
**BECHTEL INFRASTRUCTURE
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PHOENIX, AZ 85034

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LICENSER:



EXPIRES 03/31/2022

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FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

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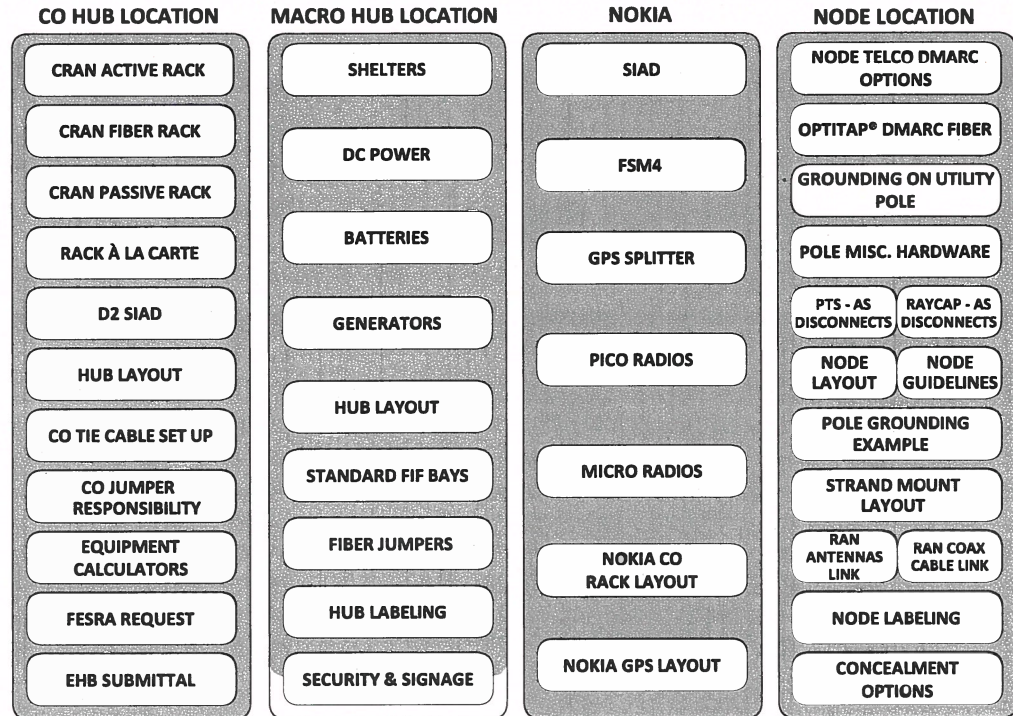
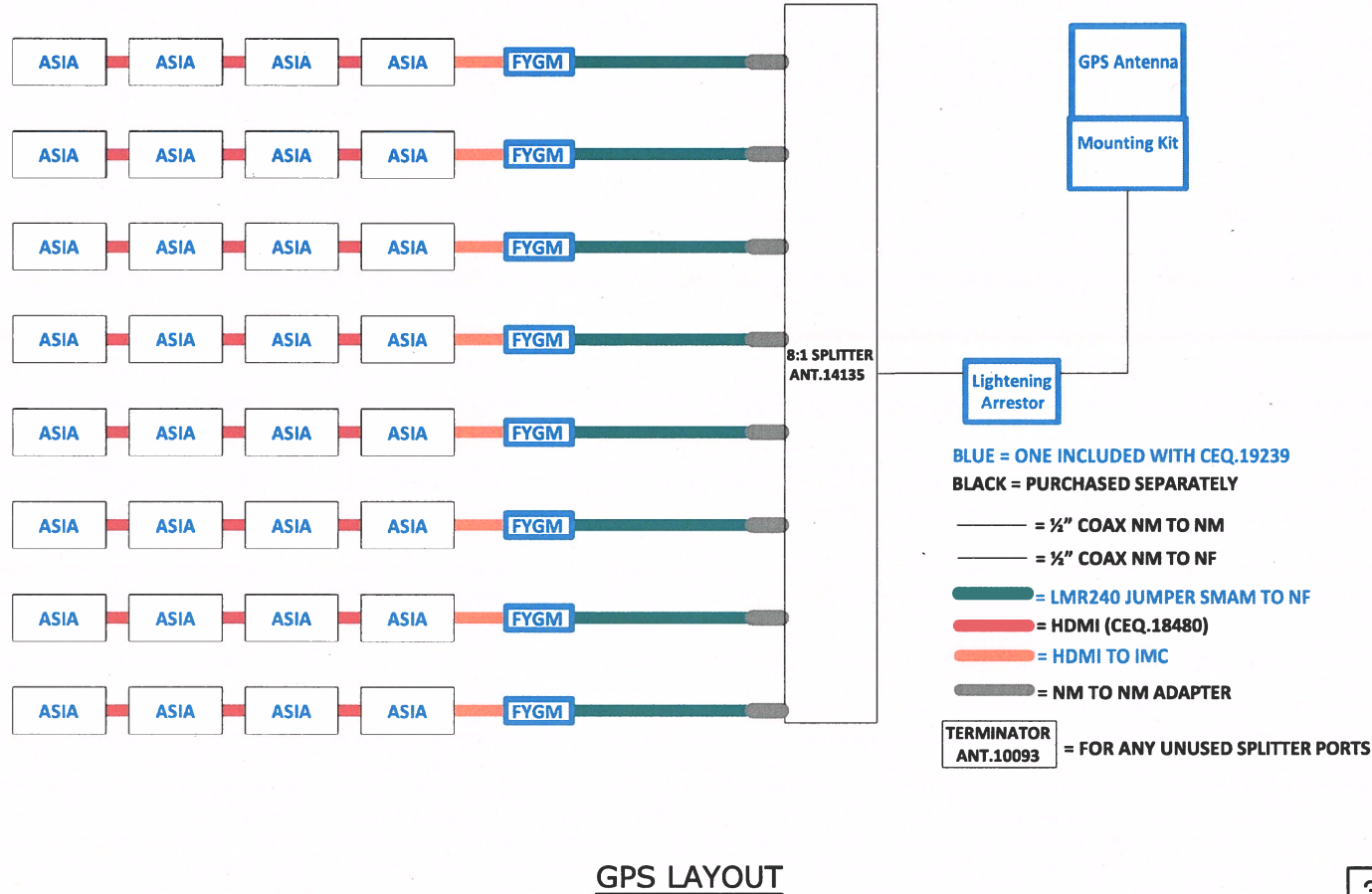
DETAILS

SHEET NUMBER:

A04

22 x 34" SIZE
PSC=

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P732											
AC POWER PANEL No. 001 (EXISTING)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A): 200						SYSTEM VOLTAGE (V): 240					
DESCRIPTION	VA	c/mc	BKR	POSN	L1	L2	POSN	BKR	c/mc	VA	DESCRIPTION
RECT. # 1 & 2	2150	nc	30	1	2330		2	20	nc	180	POWER PLANT GFCI
	2150	nc		3		3714	4	20	nc	1564	POWER PLANT HEAT PAD
RECT. # 3 & 4	2150	nc	30	5	2330		6	20	nc	180	BATT. CAB. GFCI
	2150	nc		7		3714	8	20	nc	1564	BATT. CAB HEAT PAD
RECT. # 5 & 6	2150	nc	30	9	3714		10	20	nc	1564	BATT. CAB HEAT PAD #2
	2150	nc		11		2330	12	20	nc	180	PURCELL GFCI
RECT. # 7 & 8	2150	nc	30	13	2150		14				BLANK
	2150	nc		15		2150	16				BLANK
RECT. # 9 & 10	2150	nc	30	17	2150		18				BLANK
	2150	nc		19		2150	20				BLANK
RECT 11 & 12	2150	nc	30	21	2150		22				BLANK
	2150	nc		23		2150	24				BLANK
RECT 13 & 14	2150	nc	30	25	2150		26				BLANK
	2150	nc		27		2150	28				BLANK
RECT 15 & 16			30	29	0		30				BLANK
				31		0	32				BLANK
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK
PHASE TOTALS (VA):						16974	18358				
CURRENT PER PHASE (A):						141	153	Amperes/phase cannot exceed main breaker rating			
PANEL TOTAL (VA):						35332		Legend: c = continuous, nc = non-continuous			

PANEL CAPACITY (kVA): 48.0
PANEL LOADING (100% non-cont. load) (kVA): 35.3
PANEL LOADING (125% continuous load) (kVA): 0.0
PANEL LOADING (TOTAL) (kVA): 35.3
SPARE CAPACITY (kVA): 12.7

CONNECTED LOAD (kVA): 35.3

NOTES:
1. EXISTING RECTIFIERS ARE (14) EMERSON 2KW, -48V.
2. THIS PANELBOARD IS EXISTING.

(E) AC PANEL SCHEDULE

P732											
AC POWER PANEL No. 001 (PROPOSED)											
120/240 VOLTS, 1-PHASE, 3-WIRE, 200A											
MAIN BREAKER RATING (A): 200						SYSTEM VOLTAGE (V): 240					
DESCRIPTION	VA	c/mc	BKR	POSN	L1	L2	POSN	BKR	c/mc	VA	DESCRIPTION
RECT. # 1 & 2	2150	nc	30	1	2330		2	20	nc	180	POWER PLANT GFCI
	2150	nc		3		3714	4	20	nc	1564	POWER PLANT HEAT PAD
RECT. # 3 & 4	2150	nc	30	5	2330		6	20	nc	180	BATT. CAB. GFCI
	2150	nc		7		3714	8	20	nc	1564	BATT. CAB HEAT PAD
RECT. # 5 & 6	2150	nc	30	9	3714		10	20	nc	1564	BATT. CAB HEAT PAD #2
	2150	nc		11		2330	12	20	nc	180	PURCELL GFCI
RECT. # 7 & 8	2150	nc	30	13	2150		14				BLANK
	2150	nc		15		2150	16				BLANK
RECT. # 9 & 10	2150	nc	30	17	2150		18				BLANK
	2150	nc		19		2150	20				BLANK
RECT 11 & 12	2150	nc	30	21	2150		22				BLANK
	2150	nc		23		2150	24				BLANK
RECT 13 & 14	2150	nc	30	25	2150		26				BLANK
	2150	nc		27		2150	28				BLANK
RECT 15 & 16			30	29	0		30				BLANK
				31		0	32				BLANK
BLANK				33	0		34				BLANK
BLANK				35		0	36				BLANK
BLANK				37	0		38				BLANK
BLANK				39		0	40				BLANK
BLANK				41	0		42				BLANK
PHASE TOTALS (VA):						16974	18358				
CURRENT PER PHASE (A):						141	153	Amperes/phase cannot exceed main breaker rating			
PANEL TOTAL (VA):						35332		Legend: c = continuous, nc = non-continuous			

PANEL CAPACITY (kVA): 48.0
PANEL LOADING (100% non-cont. load) (kVA): 35.3
PANEL LOADING (125% continuous load) (kVA): 0.0
PANEL LOADING (TOTAL) (kVA): 35.3
SPARE CAPACITY (kVA): 12.7

CONNECTED LOAD (kVA): 35.3

NOTES:
1. EXISTING RECTIFIERS ARE (14) EMERSON 2KW, -48V.
2. THIS PANELBOARD IS EXISTING. NO CHANGES REQUIRED.


(P) AC PANEL SCHEDULE

APPLICANT:

 **AT&T**
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:


 **BECHTEL INFRASTRUCTURE**
AND POWER CORPORATION

2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: NK
CHECKED BY: KP

REVISIONS:			
REV	DATE	DESCRIPTION	BY
1	01/24/20	ADD TELCO SCOPE	AKD
0	12/05/18	ISSUED FOR CONSTRUCTION	NK
B	11/21/18	ISSUED FOR REVIEW	SG
A	11/16/18	ISSUED FOR REVIEW	GS

LICENSER:



PROJECT INFORMATION:

P732
SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

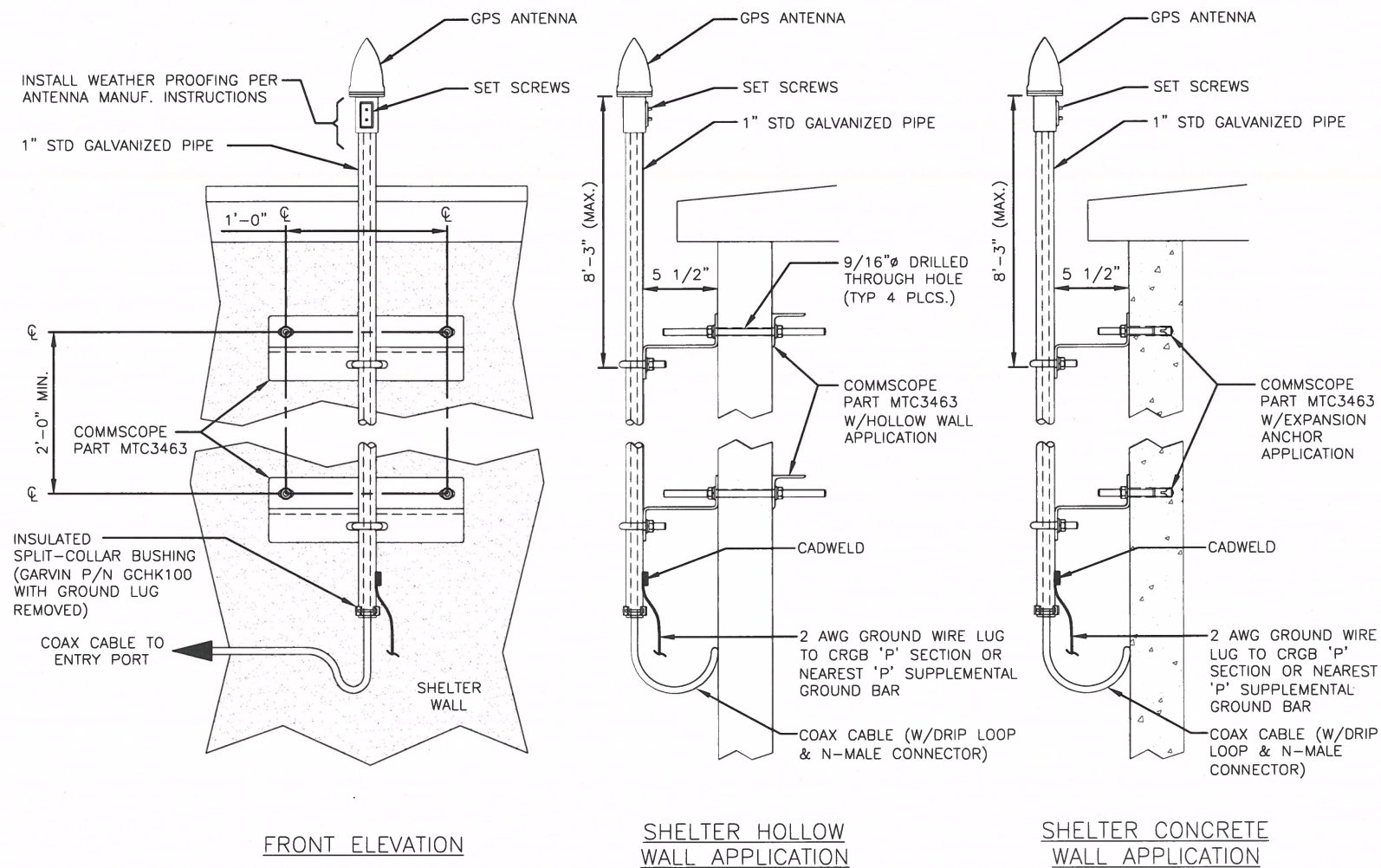
SHEET TITLE:

AC PANEL SCHEDULE
AND DETAILS

SHEET NUMBER:

A05

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NOTES:

1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE ANY BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
2. ALL GPS ANTENNA LOCATIONS MUST BE ABLE TO RECEIVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.
3. CADWELDING SHALL NOT BE PERFORMED ON ROOFTOPS. BURNDY TYPE C-11N OR EQUIVALENT GROUND CABLE CLAMP MAY BE USED AS ALTERNATE.
4. CRAN-GPS ANTENNA SHALL BE LOCATED A MINIMUM OF 10' FROM ALL ANTENNAS.

GPS ANTENNA MOUNTED TO
SHELTER WALL

DETAIL 1121B
NTS

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



BECHTEL INFRASTRUCTURE
AND POWER CORPORATION
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: NK
CHECKED BY: KP

REVISIONS:

REV	DATE	DESCRIPTION	BY
1	01/24/20	ADD TELCO SCOPE	AKD
0	12/05/18	ISSUED FOR CONSTRUCTION	NK
B	11/21/18	ISSUED FOR REVIEW	SG
A	11/16/18	ISSUED FOR REVIEW	GS

LICENSER:



PROJECT INFORMATION:

P732
SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

SHEET TITLE:

DETAILS

SHEET NUMBER:

A06

1

6

5

4

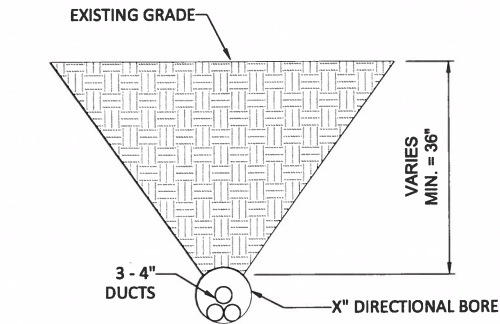
3

2

1

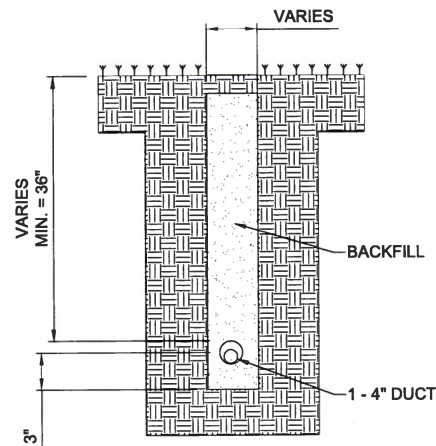
22 x 34" SIZE
PSC=

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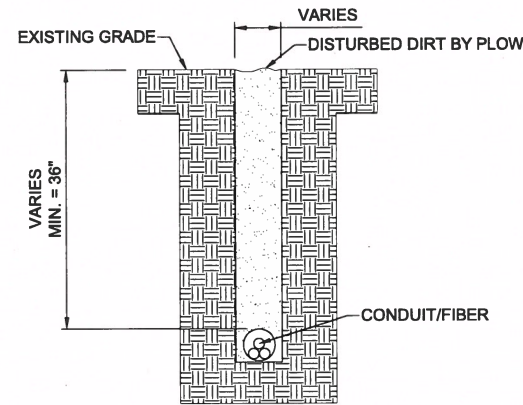
TYPICAL DIRECTIONAL BORE DETAIL

5



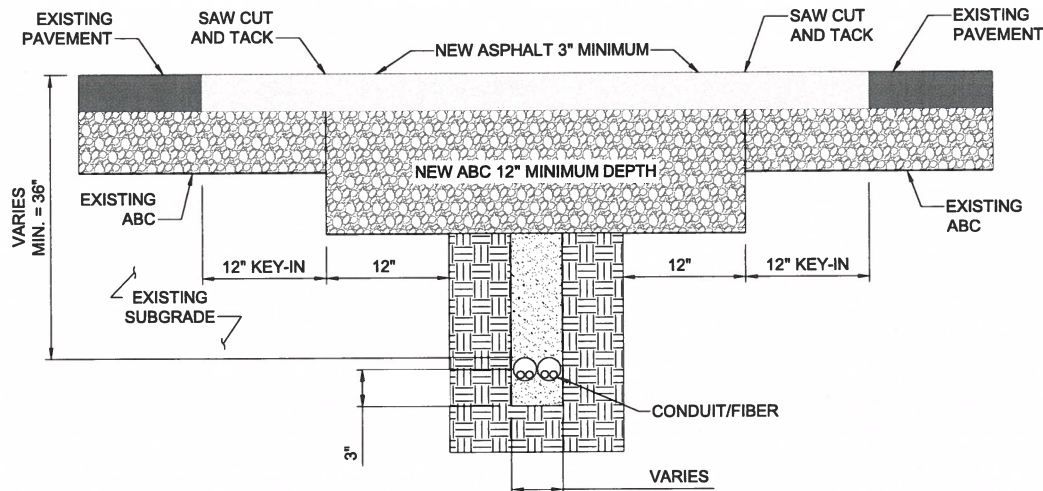
CONDUIT INSTALLATION AND RESTORATION
- TRENCH - SOFT SURFACE

3



CONDUIT INSTALLATION AND
RESTORATION - PLOW (NON-DROP)

1

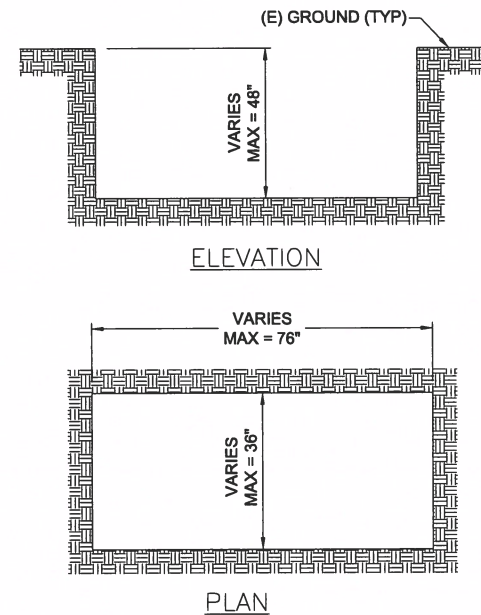


CONDUIT INSTALLATION AND
RESTORATION - TRENCH - ASPHALT

NOTES:

1. THE PAVEMENT EDGE SHALL BE DEFINED BY A STRAIGHT EDGE FORMED BY A MACHINED SAW CUT.
2. THE TRENCH SUBGRADE MATERIAL SHALL BE BACKFILLED WITH SUITABLE MATERIAL AND COMPACTED TO A DENSITY OF AT LEAST 95% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-99 AS MODIFIED BY NCDOT.
3. THE FINAL 1' OF FILL SHALL CONSIST OF ABC MATERIAL COMPACTED TO A DENSITY EQUAL TO 100% OF THAT OBTAINED BY COMPACTING A SAMPLE OF THE MATERIAL IN ACCORDANCE WITH AASHTO T-80 AS MODIFIED BY NCDOT. BITUMINOUS BASE OR BINDER MAY BE SUBSTITUTED IF APPROVED BY CITY OF RALEIGH ENGINEER.
4. THE ENTIRE THICKNESS/VERTICAL EDGE OF THE CUT SHALL BE TACKED.
5. THE SAME DEPTH OF PAVEMENT MATERIAL WHICH EXISTS SHALL BE REINSTALLED, BUT IN NO CASE SHALL THE ASPHALT BE LESS THAN 3" THICK.
6. THE ASPHALT PAVEMENT MATERIAL SHALL BE INSTALLED AND COMPACTED THOROUGHLY AND ROLLED WITH A SMOOTH DRUM ROLLER TO ACHIEVE A SMOOTH, LEVEL PATCH.

4



NOTE:

1. ACTUAL BORE PIT SIZE TO BE DETERMINED BY CONTRACTOR.

TYPICAL BORE PIT DETAIL

2

APPLICANT:



AT&T
MOBILITY

1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:



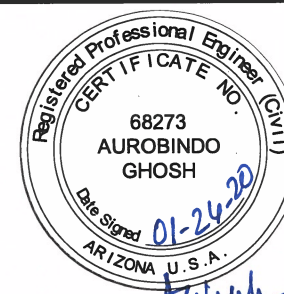
**BECHTEL INFRASTRUCTURE
AND POWER CORPORATION**
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: AKD
CHECKED BY: CGR

REVISIONS:

REV	DATE	DESCRIPTION	BY
0	01/24/20	ADD TELCO SCOPE	AKD

LICENSER:



EXPIRES 03/31/2022

PROJECT INFORMATION:

P732
SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER

26134-627-C0-0000-00170-001

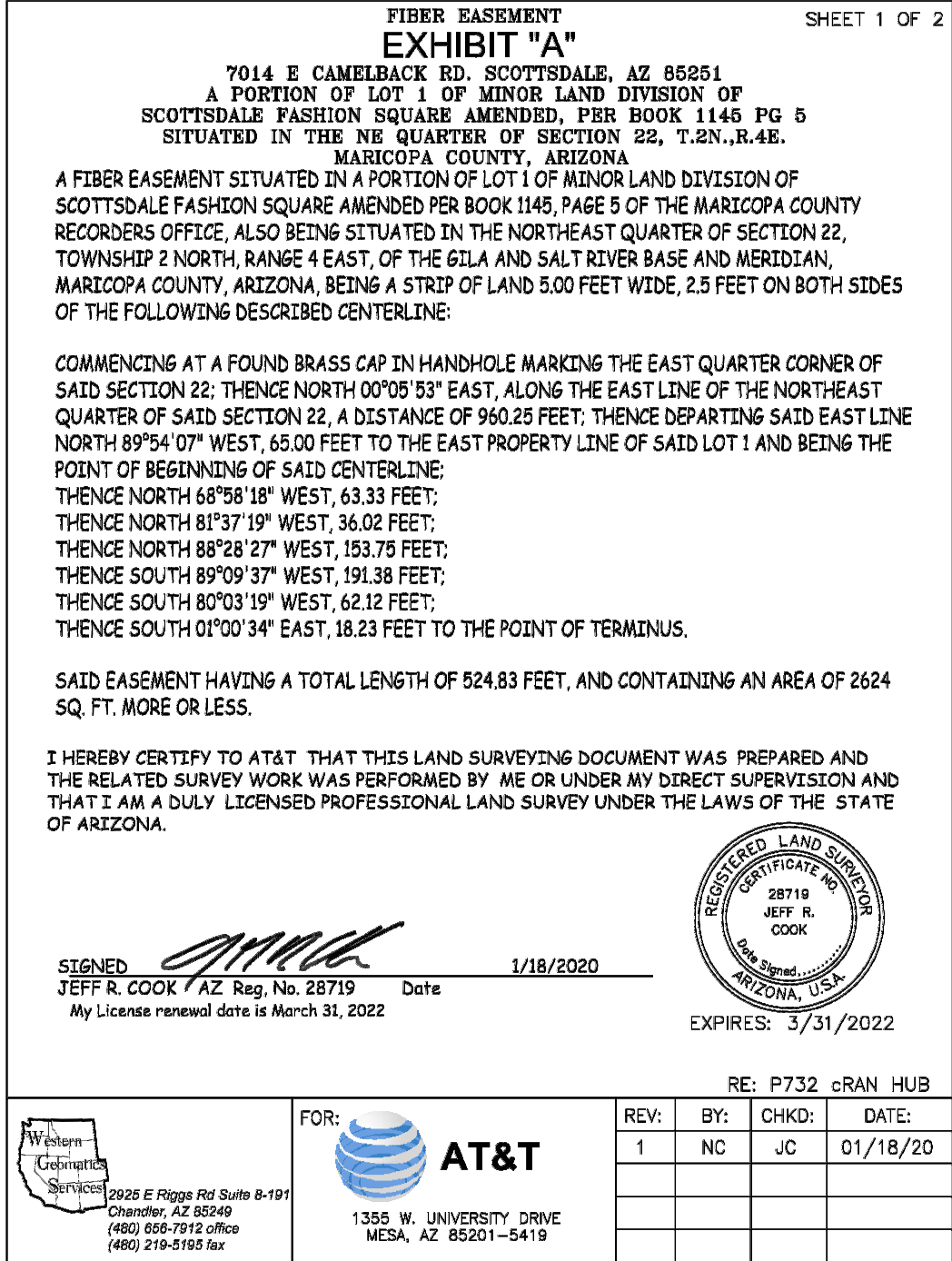
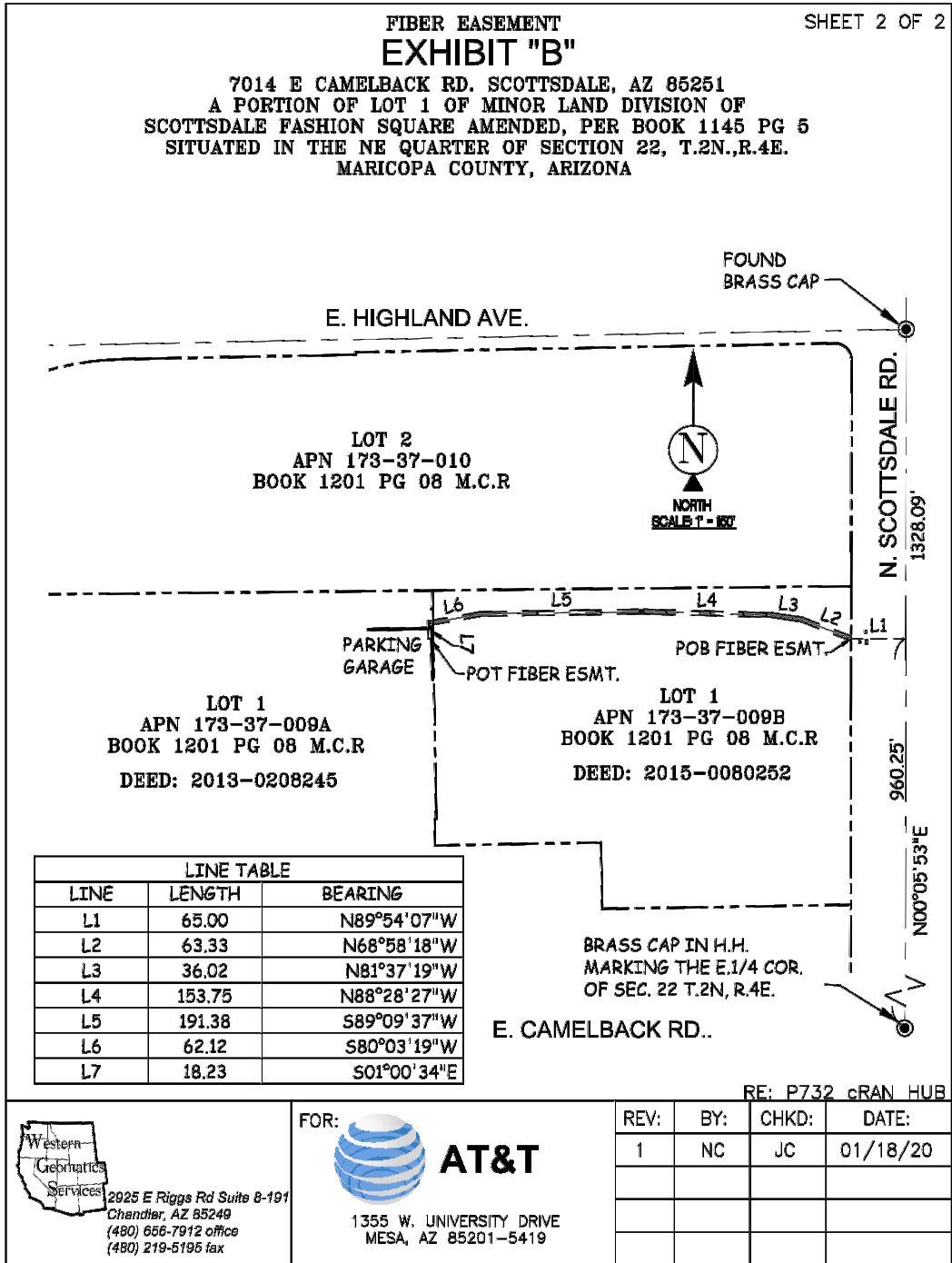
SHEET TITLE:

DETAILS

SHEET NUMBER:

A07

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APPLICANT:

AT&T
MOBILITY
1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201-5419

ENGINEER:

**BECHTEL INFRASTRUCTURE
AND POWER CORPORATION**
2601 SOUTH 37TH STREET, SUITE 200
PHOENIX, AZ 85034

DRAWN BY: AKD
CHECKED BY: CGR

REVISIONS:

REV	DATE	DESCRIPTION	BY
0	01/24/20	ADD TELCO SCOPE	AKD

LICENSER:

PROJECT INFORMATION:

P732
**SCOTTSDALE MALL-SCOTTSDALE
FASHION CTR**
7150 EAST CAMELBACK ROAD
SCOTTSDALE, AZ 85251

BECHTEL DRAWING NUMBER
26134-627-C0-0000-00170-001

SHEET TITLE:
**FIBER EASEMENT
(BY OTHERS)**

SHEET NUMBER:
A09

FIBER EASEMENT
EXHIBIT "A"

SHEET 1 OF 2

7014 E CAMELBACK RD. SCOTTSDALE, AZ 85251
A PORTION OF LOT 1 OF MINOR LAND DIVISION OF
SCOTTSDALE FASHION SQUARE AMENDED, PER BOOK 1145 PG 5
SITUATED IN THE NE QUARTER OF SECTION 22, T.2N., R.4E.
MARICOPA COUNTY, ARIZONA

A FIBER EASEMENT SITUATED IN A PORTION OF LOT 1 OF MINOR LAND DIVISION OF
SCOTTSDALE FASHION SQUARE AMENDED PER BOOK 1145, PAGE 5 OF THE MARICOPA COUNTY
RECORDERS OFFICE, ALSO BEING SITUATED IN THE NORTHEAST QUARTER OF SECTION 22,
TOWNSHIP 2 NORTH, RANGE 4 EAST, OF THE GILA AND SALT RIVER BASE AND MERIDIAN,
MARICOPA COUNTY, ARIZONA, BEING A STRIP OF LAND 5.00 FEET WIDE, 2.5 FEET ON BOTH SIDES
OF THE FOLLOWING DESCRIBED CENTERLINE:

COMMENCING AT A FOUND BRASS CAP IN HANDHOLE MARKING THE EAST QUARTER CORNER OF
SAID SECTION 22; THENCE NORTH 00°05'53" EAST, ALONG THE EAST LINE OF THE NORTHEAST
QUARTER OF SAID SECTION 22, A DISTANCE OF 960.25 FEET; THENCE DEPARTING SAID EAST LINE
NORTH 89°54'07" WEST, 65.00 FEET TO THE EAST PROPERTY LINE OF SAID LOT 1 AND BEING THE
POINT OF BEGINNING OF SAID CENTERLINE;
THENCE NORTH 68°58'18" WEST, 63.33 FEET;
THENCE NORTH 81°37'19" WEST, 36.02 FEET;
THENCE NORTH 88°28'27" WEST, 153.75 FEET;
THENCE SOUTH 89°09'37" WEST, 191.38 FEET;
THENCE SOUTH 80°03'19" WEST, 62.12 FEET;
THENCE SOUTH 01°00'34" EAST, 18.23 FEET TO THE POINT OF TERMINUS.

SAID EASEMENT HAVING A TOTAL LENGTH OF 524.83 FEET, AND CONTAINING AN AREA OF 2624
SQ. FT. MORE OR LESS.

I HEREBY CERTIFY TO AT&T THAT THIS LAND SURVEYING DOCUMENT WAS PREPARED AND
THE RELATED SURVEY WORK WAS PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION AND
THAT I AM A DULY LICENSED PROFESSIONAL LAND SURVEY UNDER THE LAWS OF THE STATE
OF ARIZONA.

SIGNED

JEFF R. COOK AZ Reg. No. 28719 Date

My License renewal date is March 31, 2022

1/18/2020



EXPIRES: 3/31/2022

RE: P732 cRAN HUB



2925 E Riggs Rd Suite 8-191
Chandler, AZ 85249
(480) 656-7912 office
(480) 219-5195 fax

FOR:



AT&T

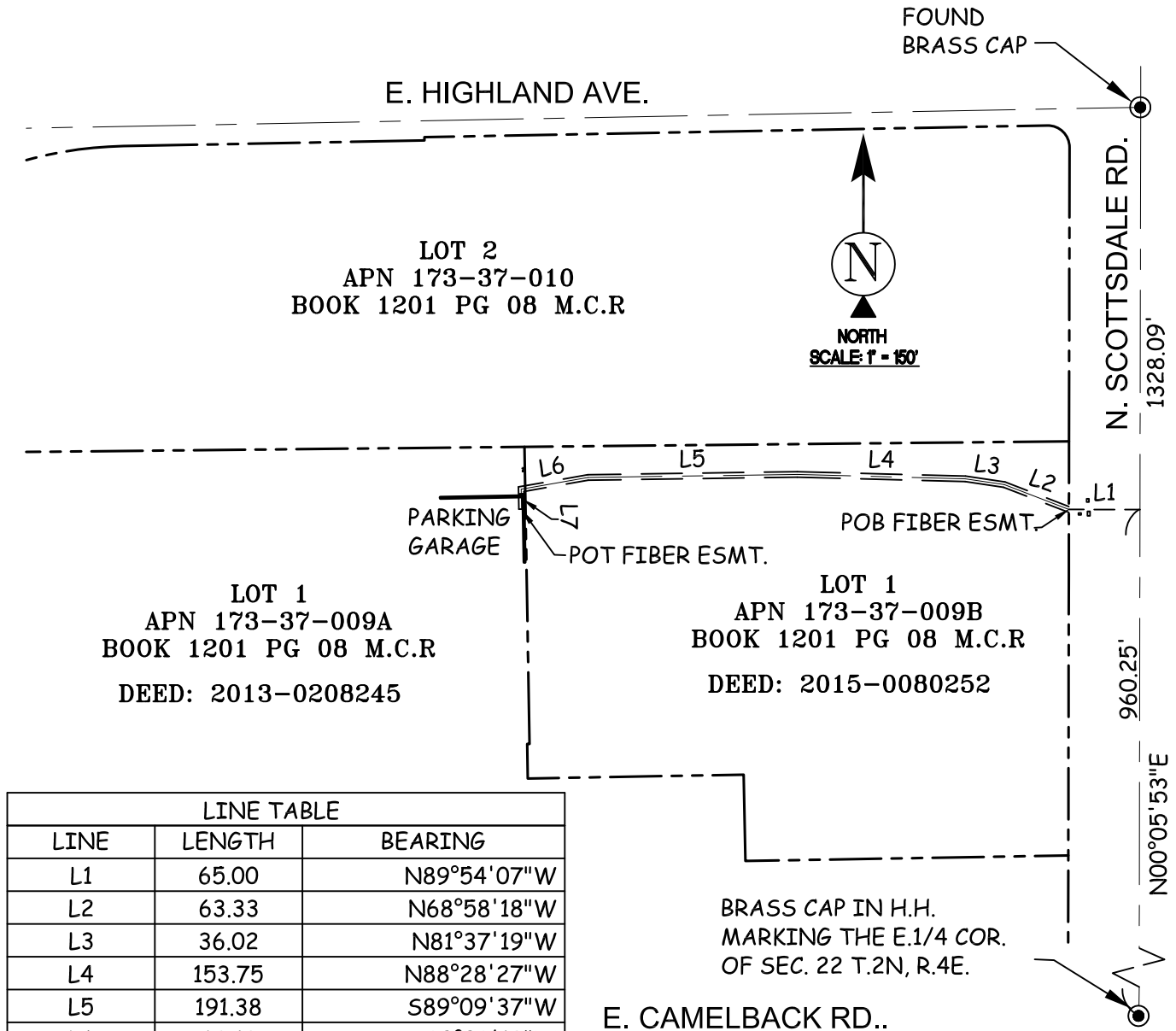
1355 W. UNIVERSITY DRIVE
MESA, AZ 85201-5419

REV:	BY:	CHKD:	DATE:
1	NC	JC	01/18/20

FIBER EASEMENT EXHIBIT "B"

SHEET 2 OF 2

7014 E CAMELBACK RD. SCOTTSDALE, AZ 85251
A PORTION OF LOT 1 OF MINOR LAND DIVISION OF
SCOTTSDALE FASHION SQUARE AMENDED, PER BOOK 1145 PG 5
SITUATED IN THE NE QUARTER OF SECTION 22, T.2N.,R.4E.
MARICOPA COUNTY, ARIZONA



LINE TABLE		
LINE	LENGTH	BEARING
L1	65.00	N89°54'07"W
L2	63.33	N68°58'18"W
L3	36.02	N81°37'19"W
L4	153.75	N88°28'27"W
L5	191.38	S89°09'37"W
L6	62.12	S80°03'19"W
L7	18.23	S01°00'34"E

RE: P732 cRAN HUB



2925 E Riggs Rd Suite 8-191
Chandler, AZ 85249
(480) 656-7912 office
(480) 219-5195 fax

FOR:



AT&T

1355 W. UNIVERSITY DRIVE
MESA, AZ 85201-5419

REV:	BY:	CHKD:	DATE:
1	NC	JC	01/18/20