

Project Submittal Narrative
AT&T Small Cell Wireless Facility Proposal: PHX01_010_A



Submitted By:

Mike O'Grady - Smartlink LLC
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602-692-5737 / michael.ogrady@smartlinkllc.com
DATE: 10.24.19

Introduction

On March 31, 2017 House Bill 2365 wireless facilities; rights-of-way, was signed into law. It allows wireless providers to install and operate small cells (SWF) and related equipment in city, town and county rights-of-way (ROW) and public easements. This application is for a building permit from the Town of Paradise Valley that will allow for the replacement of a light pole located in the ROW with an AT&T Small Cell Wireless Communications Facility.

Description of the Site / Purpose of Modification:

The subject APS owned light pole is situated in the Paradise Valley owned right-of-way along Scottsdale Road, on the west side of the Hilton Doubletree Hotel at 5401 N Scottsdale Road. The purpose of this small cell communications facility is to allow network densification to handle the additional demand for wireless and voice data in the surrounding high tourist/traffic area. The photo below depicts an aerial view of the existing light pole/proposed SWF location with a 100' radius from the proposed facility circled. A faux cactus design was considered but not proposed as it would not match the existing grass landscaping in front of the hotel. A 24' cactus would also not meet AT&T's antenna height requirement of 35'. Replacing the existing APS light pole will have only a minor visual and no environmental impact on neighboring properties and APS has an approved replacement pole design in place with AT&T.



5401 N Scottsdale Road

Proposed Modification:

The proposed SWF installation will involve replacing the existing street light standard with a new APS approved SWF light standard containing (1) antenna and (3) remote radio head units mounted inside a stealth canister at the top of the pole. The new light standard will remain functional as an APS owned street light and the total height of the structure will be 35'. The related ground equipment will consist of a meter pedestal with power feed and a fiber meet vault, both located adjacent to the new pole. The meter pedestal will be positioned to face away from the street. There are no proposed changes to the existing landscape or lighting outside the hotel wall. This is consistent with the other new SWFs located on the same side of Scottsdale Road. It is thought that adding landscaping or a wall to screen the meter pedestal would only draw attention to the SWF, particularly in this location in front of the hotel wall. The SWF light standard will be painted to match the existing light pole.

The communication facility will have no impact to vehicular or pedestrian pattern; it does not utilize connection to any water system, refuse collection, or sewer system. The proposed equipment will not emit any odor, dust, gas, noise, vibration, smoke, heat or glare. It will be designed to visually blend into its setting and with other APS owned light poles in the area.

Zoning & Land Uses:

APN: 173-17-001 (Adjacent parcel in blue below; SWF site = red dot)

Zoning District of subject parcel: N/A; ROW

Surrounding Zoning Districts:

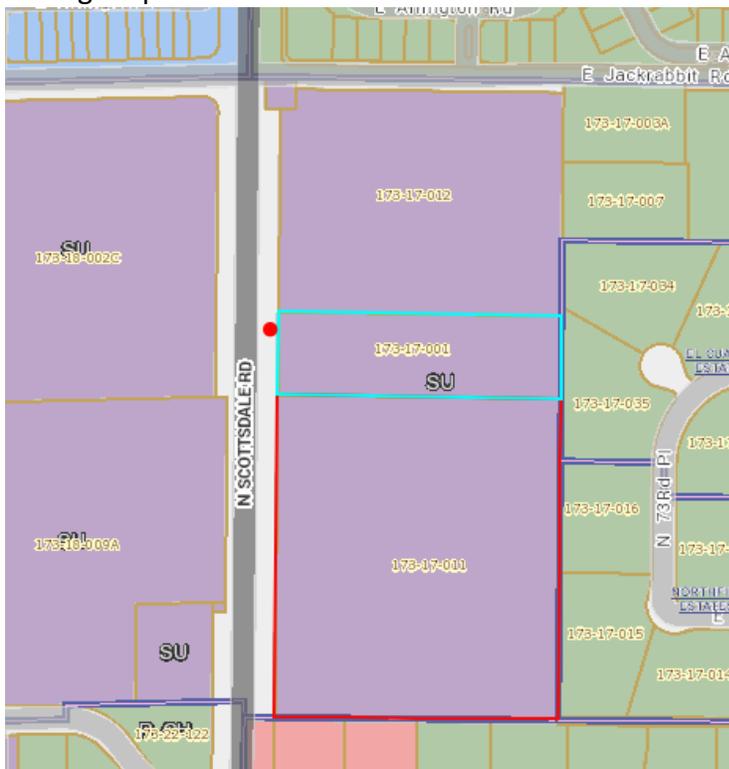
East: SUP-R

West: SUP-0

North: SUP-R

South: SUP-R

Zoning Map:



Fall Zone



The proposed SWF replacement pole will be 35' high. The red circle around proposed pole location represents a 35' "fall zone" from the nearest habitable structure per Section 2.5.4.a.i.c of the Town Code.



RADIO, ANTENNA AND ANCILLARY
EQUIPMENT CONFIGURATION

OVERALL VOLUME: 9.8 CU FT
ESTIMATED WEIGHT: 195 LBS

MULTIPLE COLOR OPTIONS
AVAILABLE TO MATCH EXISTING POLES

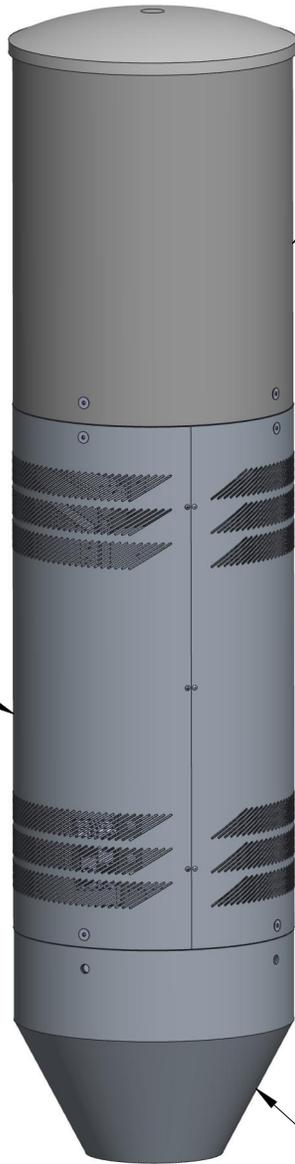
SUITABLE FOR ROUND OR SQUARE POLES

 Charles Industries, Ltd. www.charlesindustries.com	SIZE	DRAWING NO.	ISS.
	A	CI POLE-TOP NODE	SJR
<small>THIS IS THE PROPERTY OF CHARLES INDUSTRIES LTD. AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS.</small>	SCALE	CAD FILE NAME	REV.
	.060	CI_POLE_TOP	A
		SHEET	1 of 5

REV 07-28-99

COMPUTER GENERATED DRAWING

DO NOT SCALE DRAWING



ANTENNA RADOME COVER

VENTED ALUMINUM SHROUD
CAN BE REPLACED WITH
RF TRANSPARENT
VENTED RADIO COVER

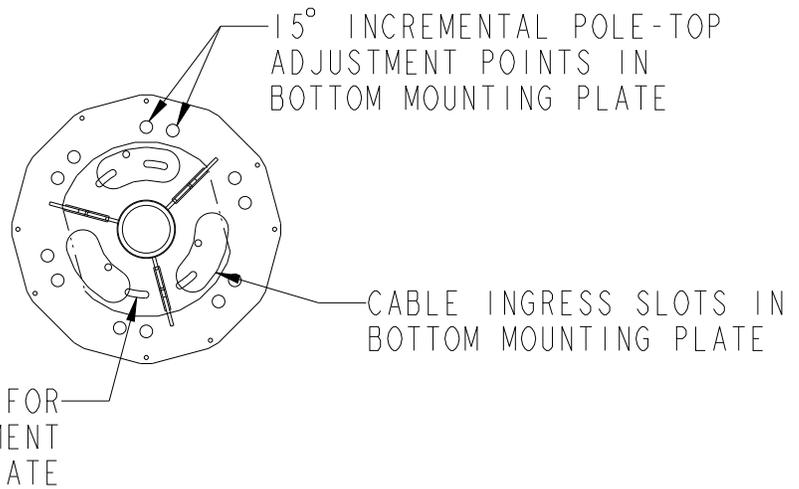
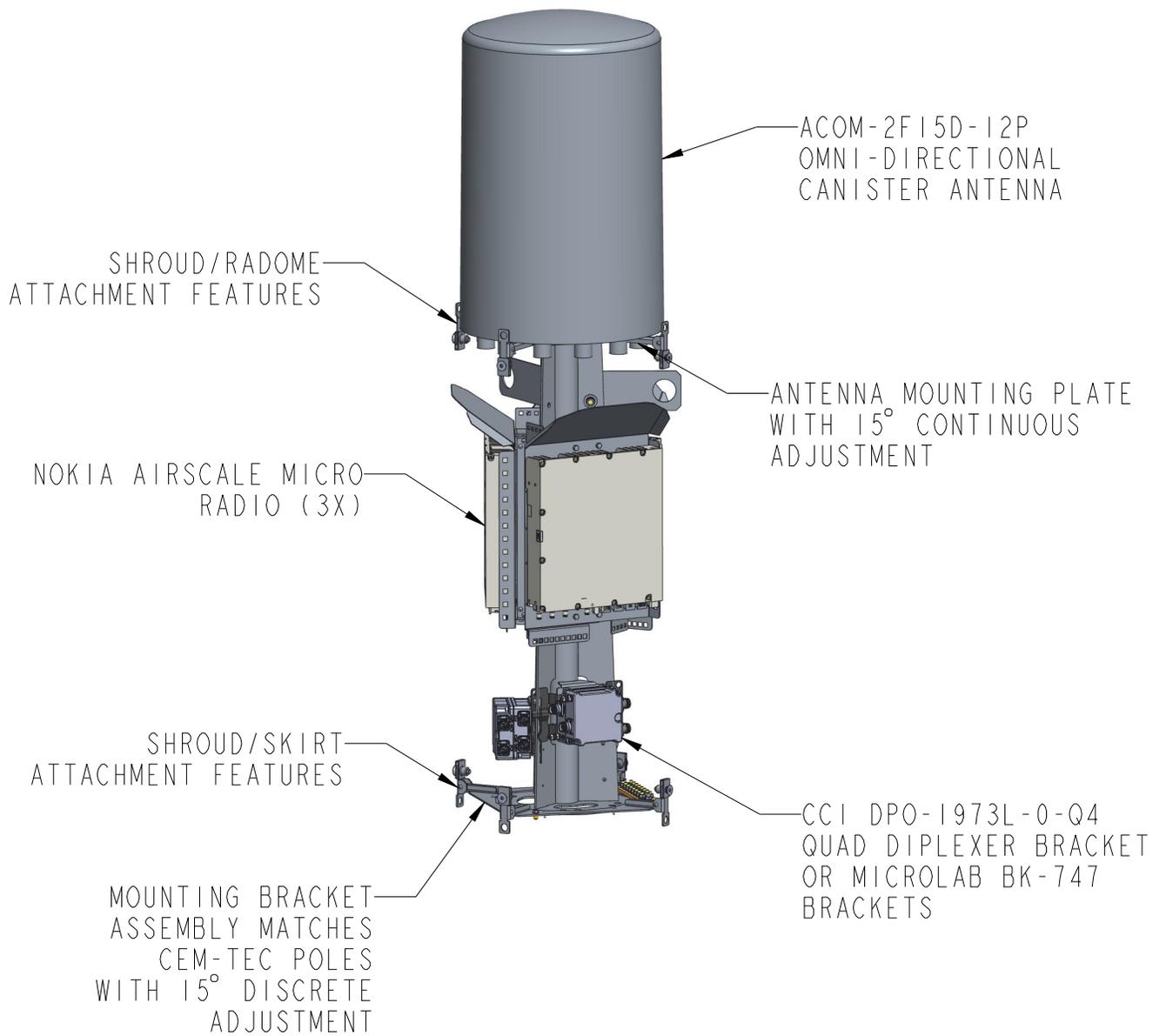
TRANSITION SKIRT

 Charles Industries, Ltd. www.charlesindustries.com	SIZE	DRAWING NO.	ISS.
	A	CI POLE-TOP NODE	SJR
<small>THIS IS THE PROPERTY OF CHARLES INDUSTRIES LTD. AND SHALL NOT BE REPRODUCED, COPIED OR USED IN ANY MANNER DETRIMENTAL TO THEIR INTERESTS.</small>	SCALE	CAD FILE NAME	SHEET
	.080	CI_POLE_TOP	2 of 5
			REV. A

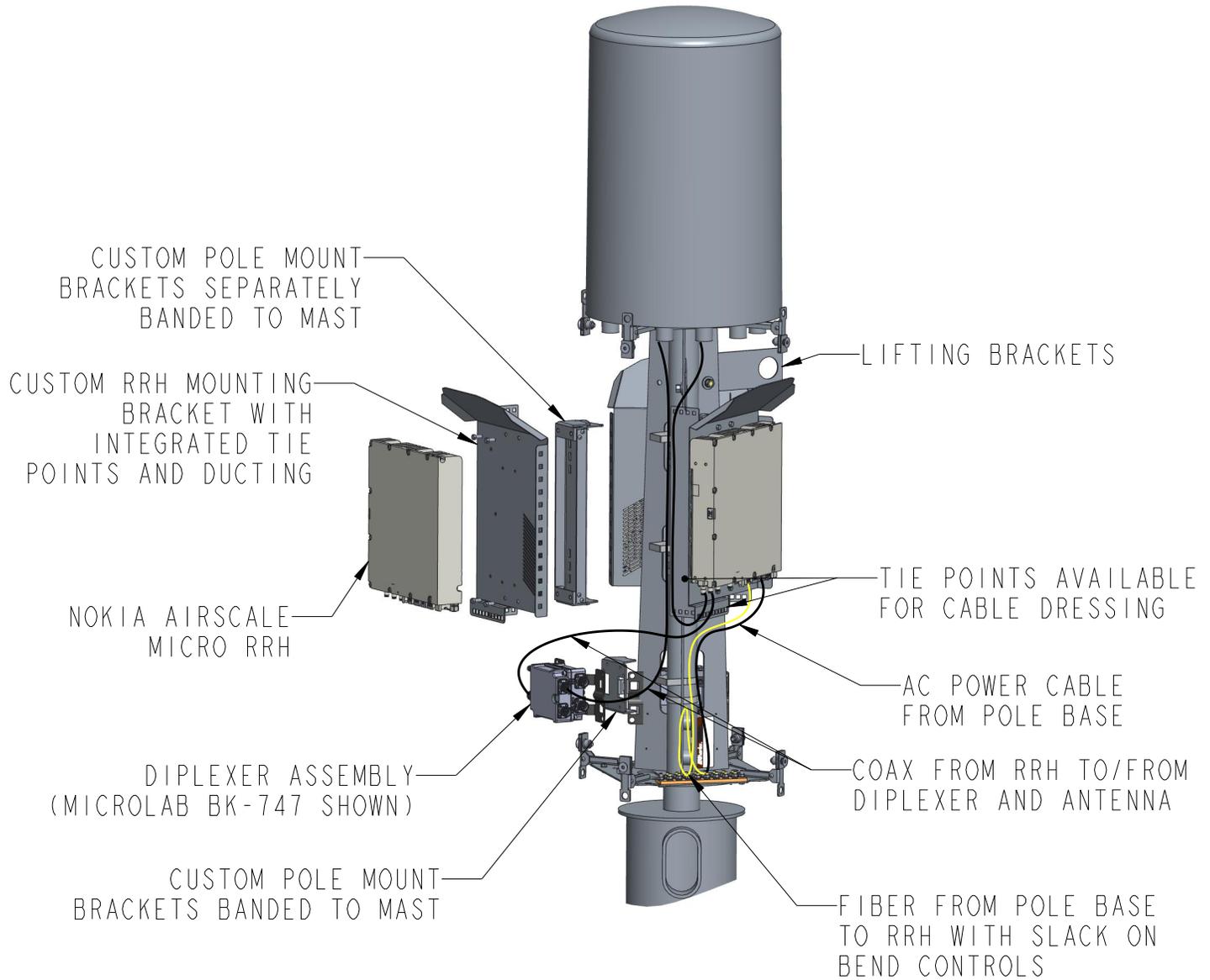
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			REV. A

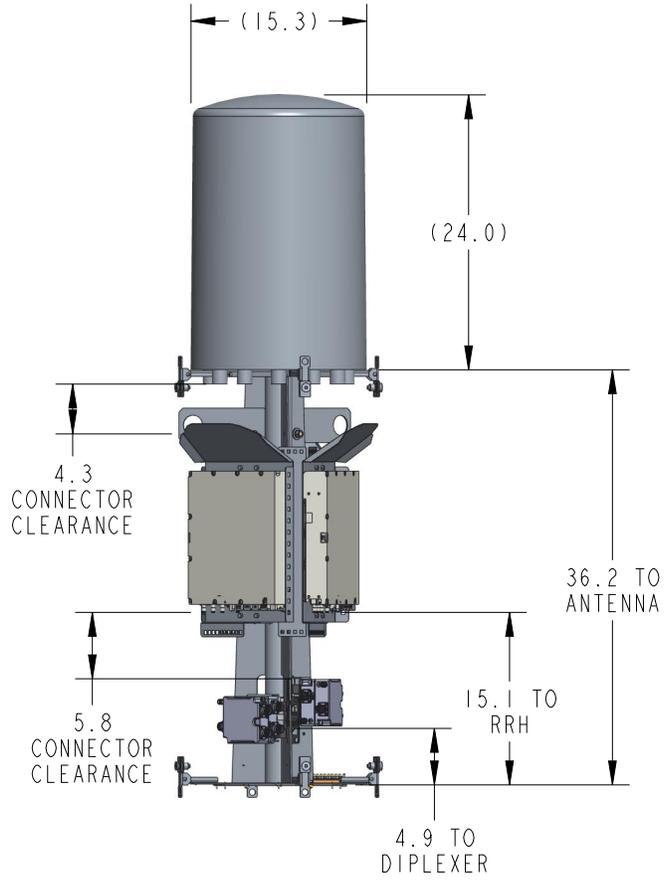
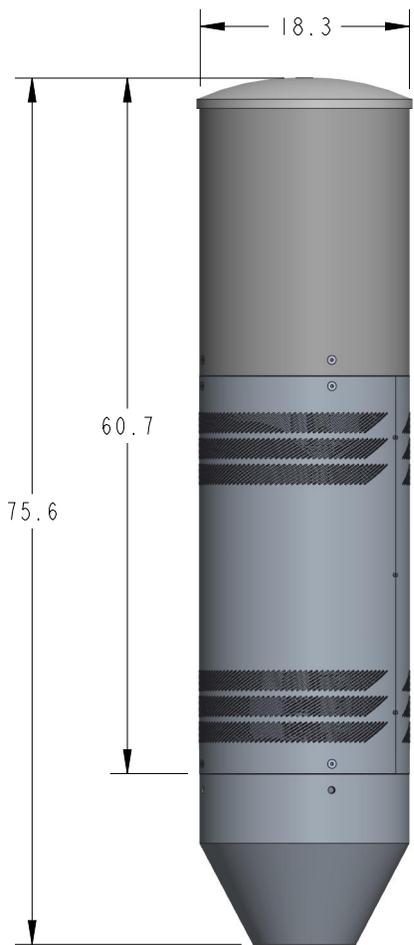


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	.080	CI_POLE_TOP	4 of 5
			REV. A

REV 07-28-99

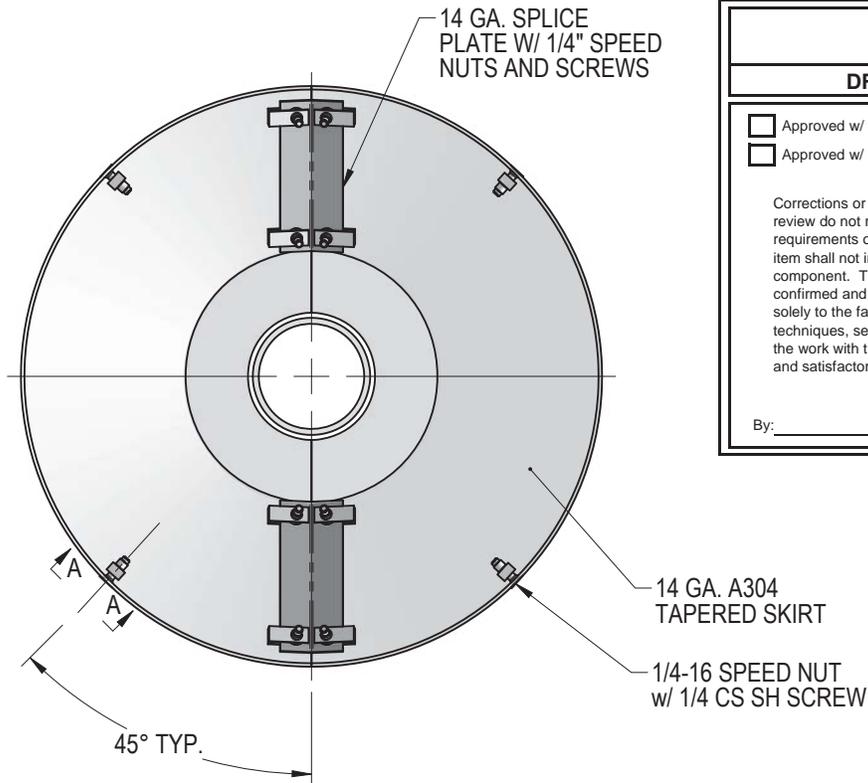
COMPUTER GENERATED DRAWING

DO NOT SCALE DRAWING



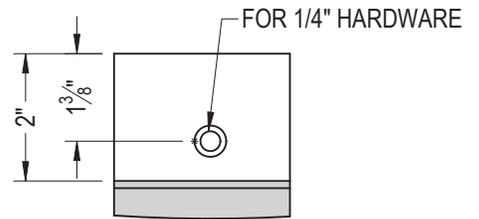
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SIZE A	DRAWING NO. CI POLE-TOP NODE	ISS. SJR
SCALE .060	CAD FILE NAME CI_POLE_TOP	REV. A
SHEET		5 of 5

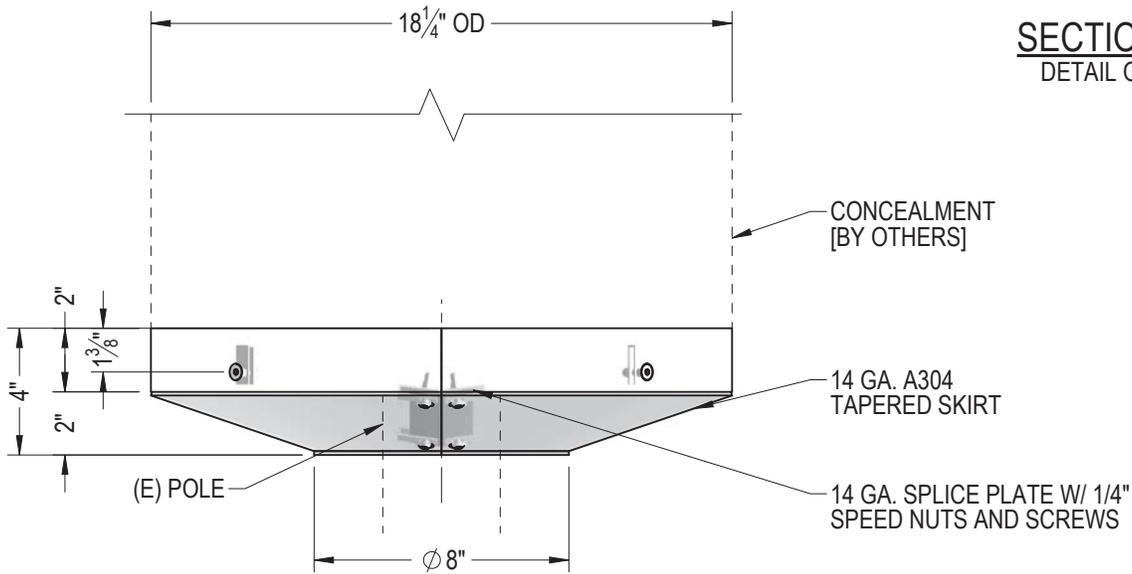


PLAN VIEW

DRAWING SUBMITTAL REVIEW	
<input type="checkbox"/> Approved w/ No Exceptions	<input type="checkbox"/> Revise and Resubmit
<input type="checkbox"/> Approved w/ Exceptions Noted	<input type="checkbox"/> Rejected. See Remarks
<p>Corrections or comments made on the shop drawings during this review do not relieve the contractor from compliance with the requirements of the plans and specifications. Review of a specific item shall not include review of an assembly of which the item is a component. The contractor is responsible for: Dimensions to be confirmed and correlated at the job site; Information that pertains solely to the fabrication processes or to the means, methods, techniques, sequences, and procedures of construction; coordination of the work with that of all other trades and performing all work in a safe and satisfactory manner.</p>	
By: _____	Date: _____



**SECTION A-A
DETAIL OF TAB**



ELEVATION VIEW

REV.	DESCRIPTION	REVISIONS			DATE	DRW	CHK
		NO.	BY	DATE			

MANUFACTURER _____

TITLE _____

PROJECT NUMBER _____ SHEET _____ DRAWING NUMBER _____

STD. S-1

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF WESTERN UTILITY TELECOM, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF WESTERN UTILITY TELECOM, INC. IS PROHIBITED.

TITLE _____

4" TAPERED SKIRT Charles Industries

PROJECT NUMBER _____ SHEET _____ DRAWING NUMBER _____

STD. S-1

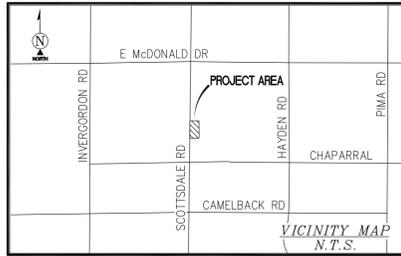


Catalog Number: CP3B11115A22
Item Description: 1PH COMM MTRPED-EUSERC
UPC Code: 784572269699

Brand Name: Milbank
Type: Ring Type Metered Commercial Pedestal
Special Features: 4 Terminal, Plain Top, Link Bypass, 1 Position, 100 Ampere Main Breaker, 16 Circuit Load Center, 22,000 Amperes Interrupting Current
Application: Power Distribution
Standard: UL Listed
Voltage Rating: 120/240 Volts Alternating Current
Amperage Rating: 100 Ampere
Phase: 1 Phase
Frequency Rating: 60 Hertz
Mounting: Pad Mount
Enclosure: Type 3R, G90 Galvanized Steel with Powder Coat Finish



Utility requirements may vary. Always consult the serving utility for their requirements prior to ordering or installing this equipment. This product must always be installed by a licensed electrician. Installation of this equipment may require local electrical inspector approval.



SURVEY DATE
01/06/2018

BASIS OF BEARING
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE CENTRAL ZONE, DETERMINED BY GPS OBSERVATIONS.

FLOOD_ZONE
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X". ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #04013C1770L, DATED 10/16/2013

SURVEYOR'S NOTES
SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED.

THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES.

BENCHMARK
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 12B' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY SINGLE BASELINE OBSERVATIONS FROM ARIZONA HEIGHT MODERNIZATION PROJECT CORS AZCS. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

BLUESTAKE WAS PERFORMED PER TICKET NO. 2018010301338.000

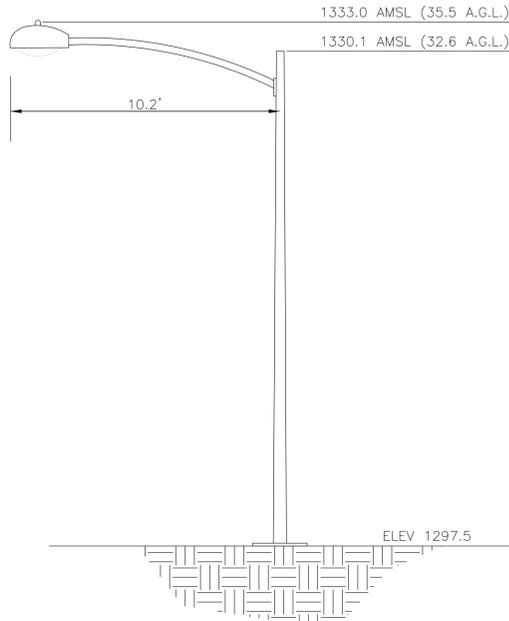
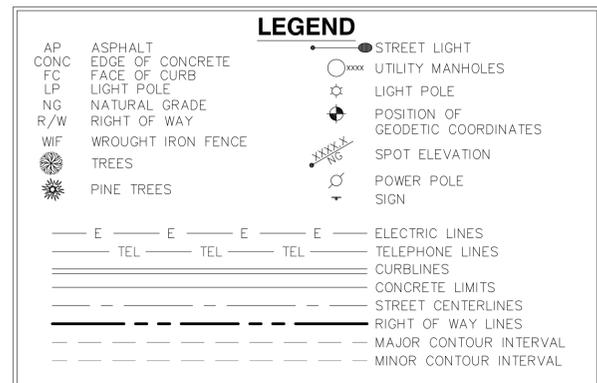
NOTE:

NO CONFLICT WITH AMERICAN TELEPHONE & TELEGRAPH COAX/FIBER PER BLUESTAKE
NO CONFLICT WITH CITY OF SCOTTSDALE ELECTRIC PER BLUESTAKE
CITY OF SCOTTSDALE ELECTRIC NO RESPONSE PER BLUESTAKE
CITY OF SCOTTSDALE FIBER NO RESPONSE PER BLUESTAKE
NO CONFLICT WITH COX COMMUNICATIONS CATV/FIBER PER BLUESTAKE
NO CONFLICT WITH CENTURY LINK COAX/FIBER PER BLUESTAKE
NO CONFLICT WITH EPCOR WATER PER BLUESTAKE
NO CONFLICT WITH SOUTHWEST GAS PER BLUESTAKE
ARCADIA VISTA IMPROVEMENT IRRIGATION NO RESPONSE PER BLUESTAKE

LESSOR'S LEGAL DESCRIPTION

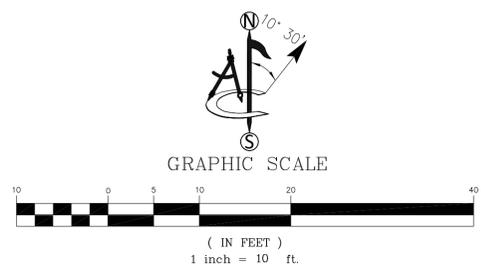
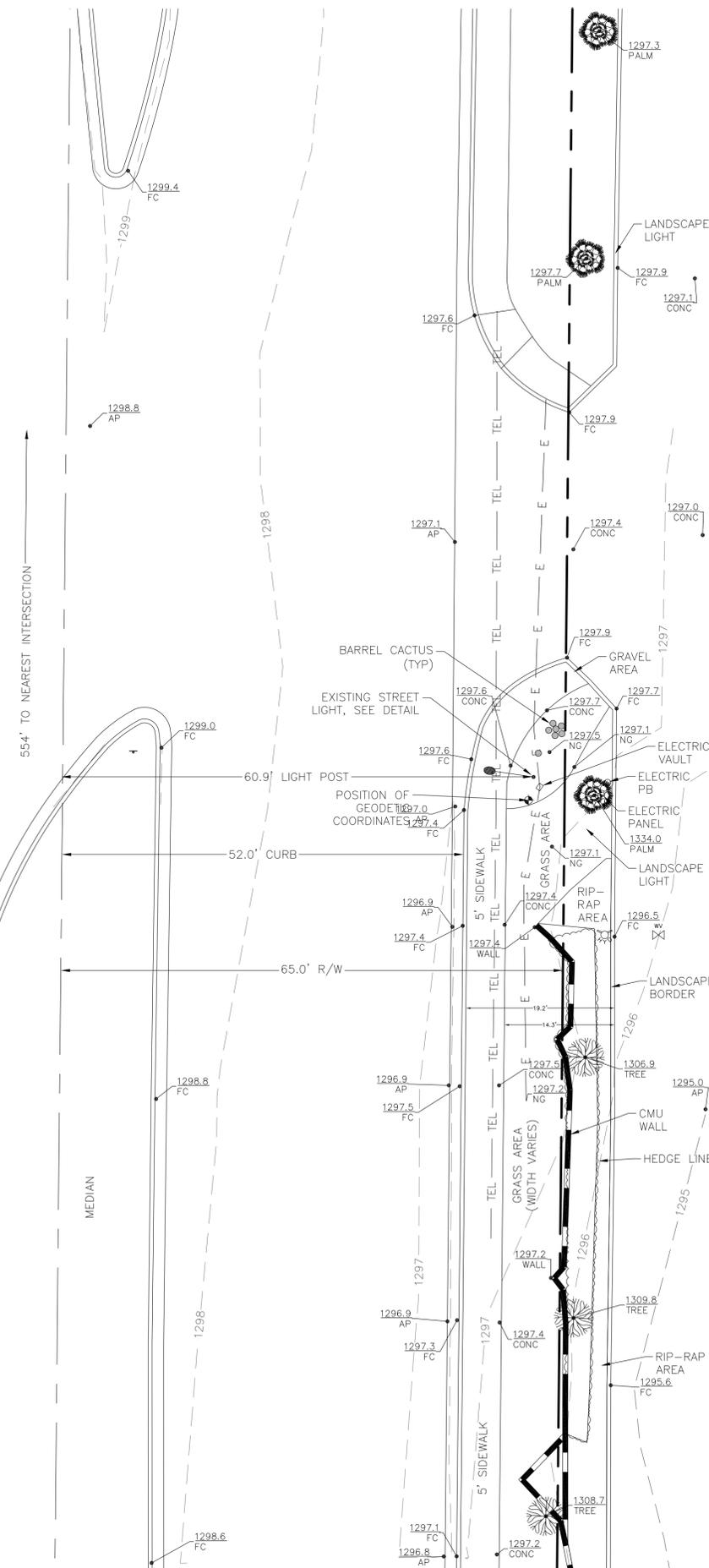
PARADISE VALLEY RIGHT OF WAY
ADJACENT TO APN 173-17-001

POSITION OF GEODETIC COORDINATES
LATITUDE 33° 30' 55.15" (33.515319°) NORTH (NAD83)
LONGITUDE 111° 55' 32.95" (111.925819°) WEST(NAD83)
GROUND ELEVATION @ 1297.5' (NAVD88)



STREET LIGHT DETAIL N.T.S.

SCOTTSDALE RD



PHX01_010_A

5401 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85250

MARICOPA COUNTY

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/18/18	RG	PRELIMINARY	NS
B	06/26/18	NS	FINAL/COMMENTS	NS
C	08/14/18	LC	FINAL (2)	NS
D	12/18/19	RAG	COMMENTS (C)	PD

410 E. SOUTHERN AVE.
TEMPE, ARIZONA 85282
PH. (480) 659-4072
www.ambitconsulting.us

Sarah A. Burgi

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR, TO ALTER THIS DOCUMENT.

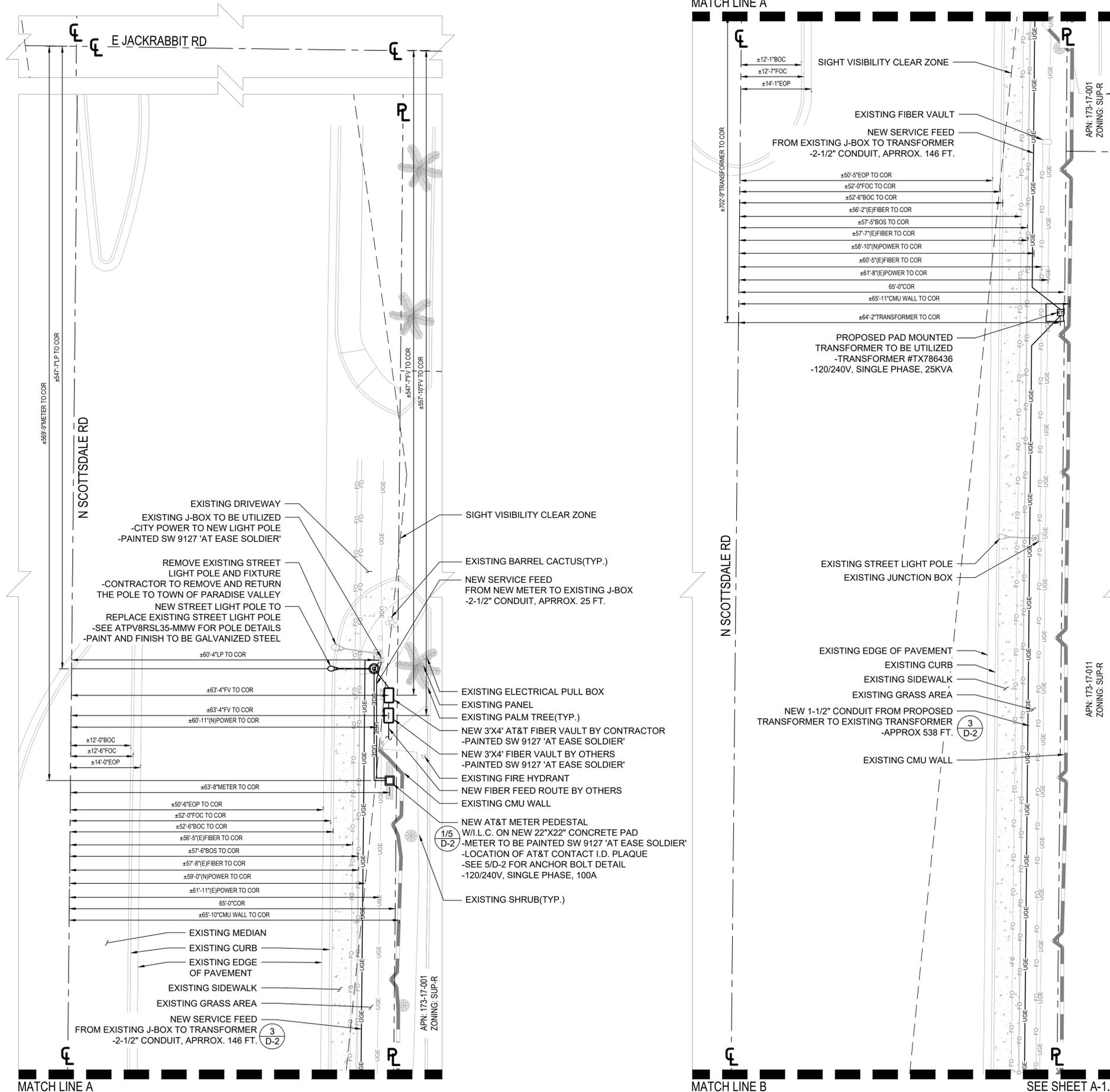
SHEET NUMBER: **LS-1** REVISION: **C**

GENERAL NOTES

UNDERGROUND UTILITIES:
EXISTING UNDERGROUND UTILITIES ARE BASED ON BLUE STAKE MARKINGS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE & PROTECT ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.

- CONTRACTOR NOTES:**
- CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITION AT COMPLETION OF WORK.
 - CONTRACTOR SHALL COORDINATE SITE ACCESS TIMES & EQUIPMENT STAGING LOCATIONS WITH APS.
 - THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY.
 - NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY.

NEW MAST ARM AND LED LUMINAIRE TO BE INSTALLED ON NEW STREET LIGHT POLE #11 FOR CONSISTENCY IN LUMINARIES

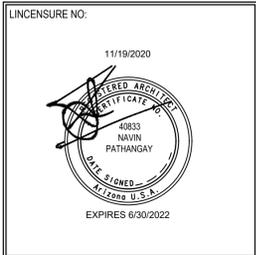


THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T WIRELESS. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED.



REV	BY	DATE	DESCRIPTION
0	AJ	08.15.19	100% CD's
1	AJ	01.31.20	CLIENT COMMENTS
2	AJ	04.13.20	POWER DESIGN UPDATE
3	AJ	07.27.20	CITY COMMENTS
4	AJ	08.20.20	SIGHT LINE UPDATE
5	NL	11.19.20	POLE DESIGN

CHECKED BY: DM



SITE NAME & ADDRESS:
**AT&T SITE ID:
CRAN_RANM:
PHX01_010_A**

5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
OVERALL SITE PLAN

SHEET NO:
A-1



1385 WEST UNIVERSITY DRIVE
MESA, AZ 85201

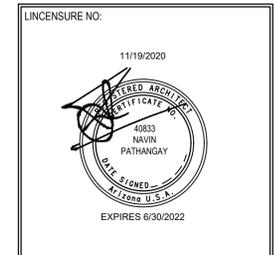
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PLANS PREPARED FOR:
smartlink
8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

PLANS PREPARED BY:
State 48
Development Consulting
WWW.STATE48CONSULTING.COM
8687 E. VIA DE VENTURA STE 115
SCOTTSDALE, AZ 85258
480-242-2477

REV	BY	DATE	DESCRIPTION
0	AJ	08.15.19	100% CD's
1	AJ	01.31.20	CLIENT COMMENTS
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3	AJ	07.27.20	CITY COMMENTS
4	AJ	08.20.20	SIGHT LINE UPDATE
5	NL	11.19.20	POLE DESIGN

CHECKED BY: DM



SITE NAME & ADDRESS:
**AT&T SITE ID:
CRAN_RANM:
PHX01_010_A**
5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
ENLARGED SITE PLAN

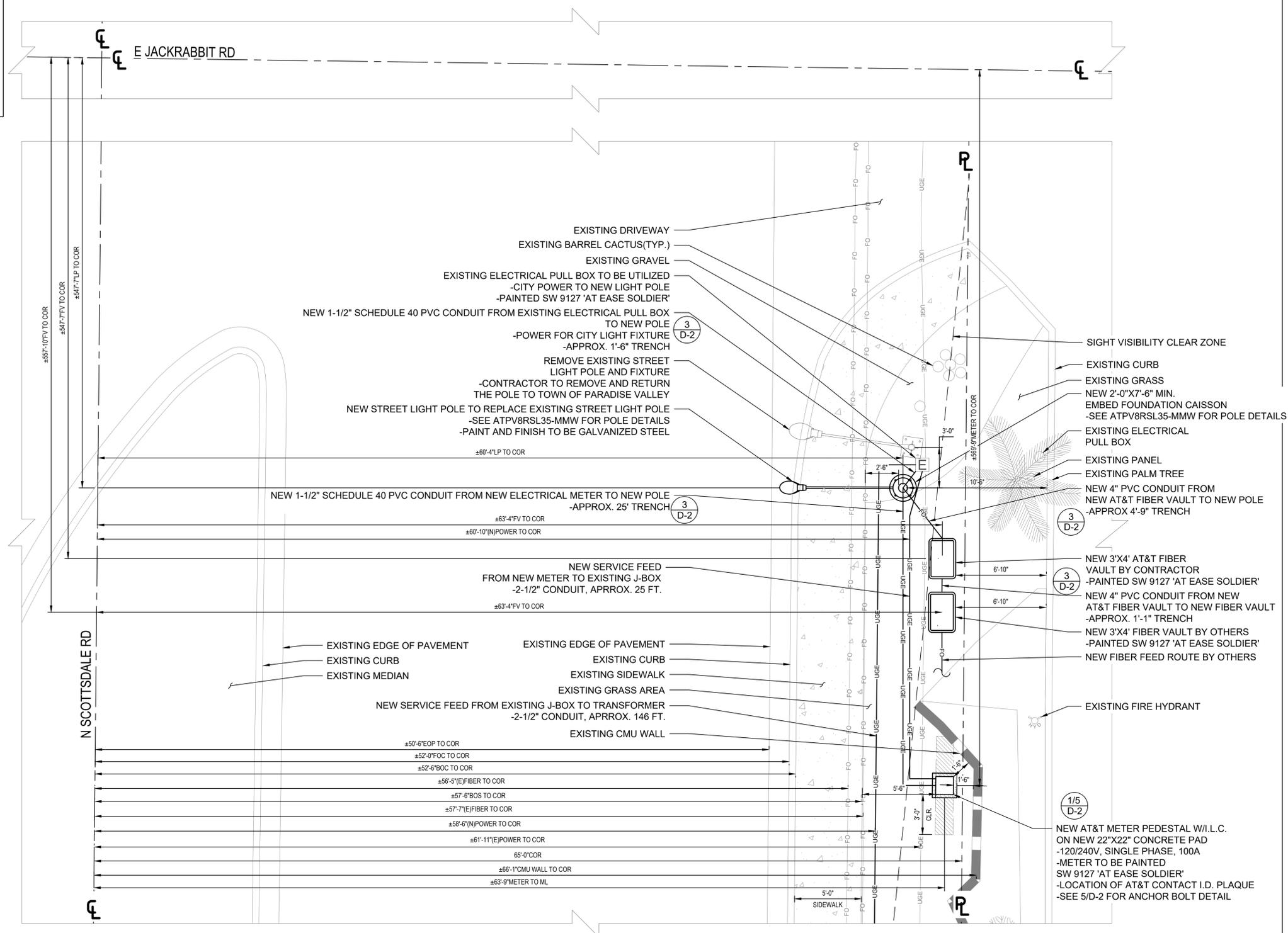
SHEET NO:
A-2

GENERAL NOTES

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NEW MAST ARM AND LED LUMINAIRE TO BE INSTALLED ON NEW STREET LIGHT POLE #11 FOR CONSISTENCY IN LUMINARIES



ENLARGED SITE PLAN

24"x36" SCALE: 1/4" = 1'-0"
12"x18" SCALE: 1/8" = 1'-0"
4' 3' 2' 1' 0' 4'



1385 WEST UNIVERSITY DRIVE
MESA, AZ 85201

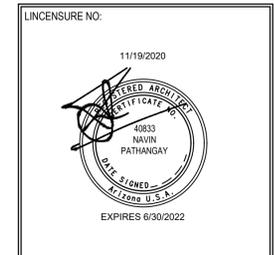
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CHECKED BY: _____ DM



SITE NAME & ADDRESS:
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CRAN_RANM:
PHX01_010_A**

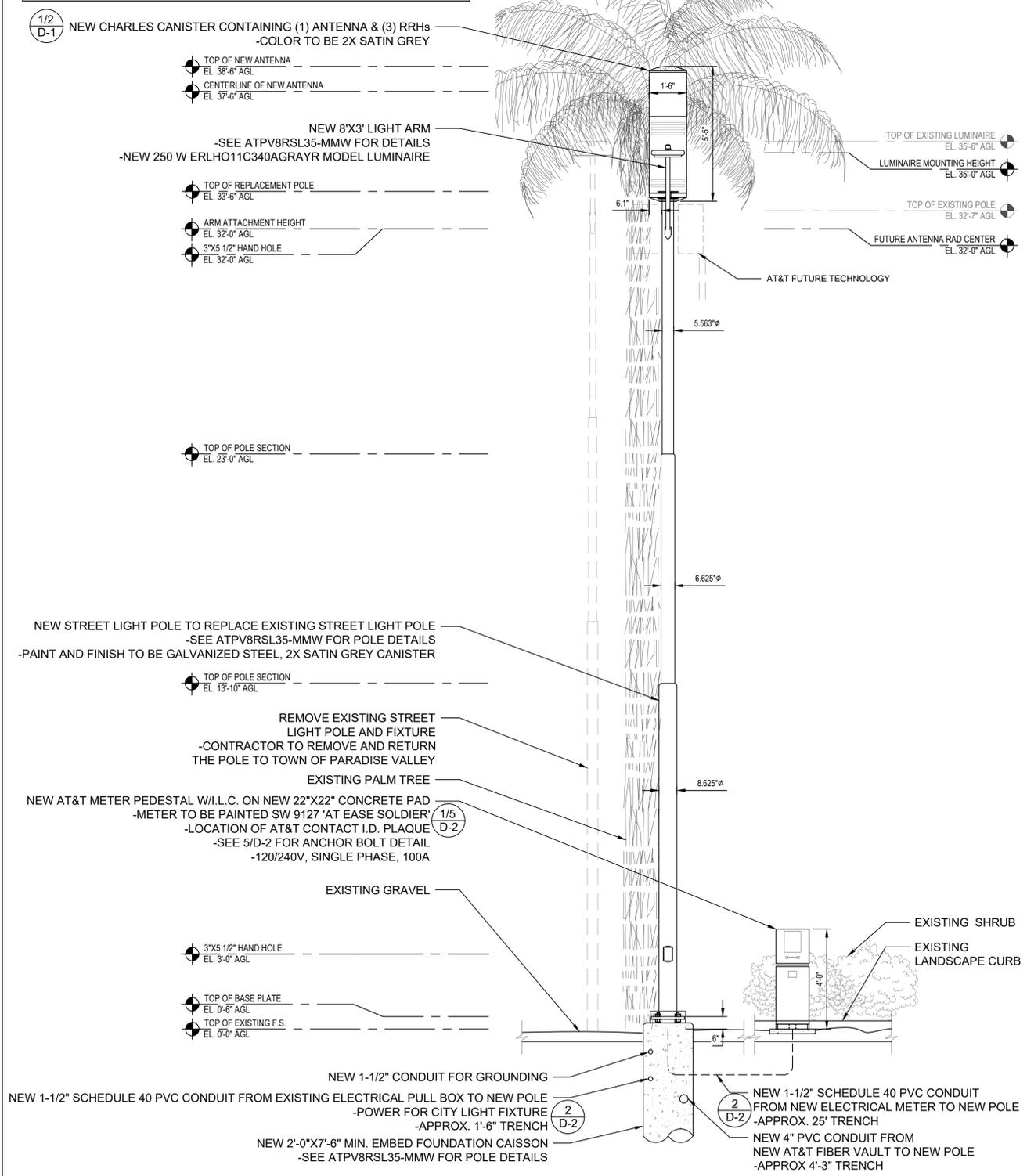
5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
ELEVATIONS

SHEET NO:
A-3

GENERAL NOTES

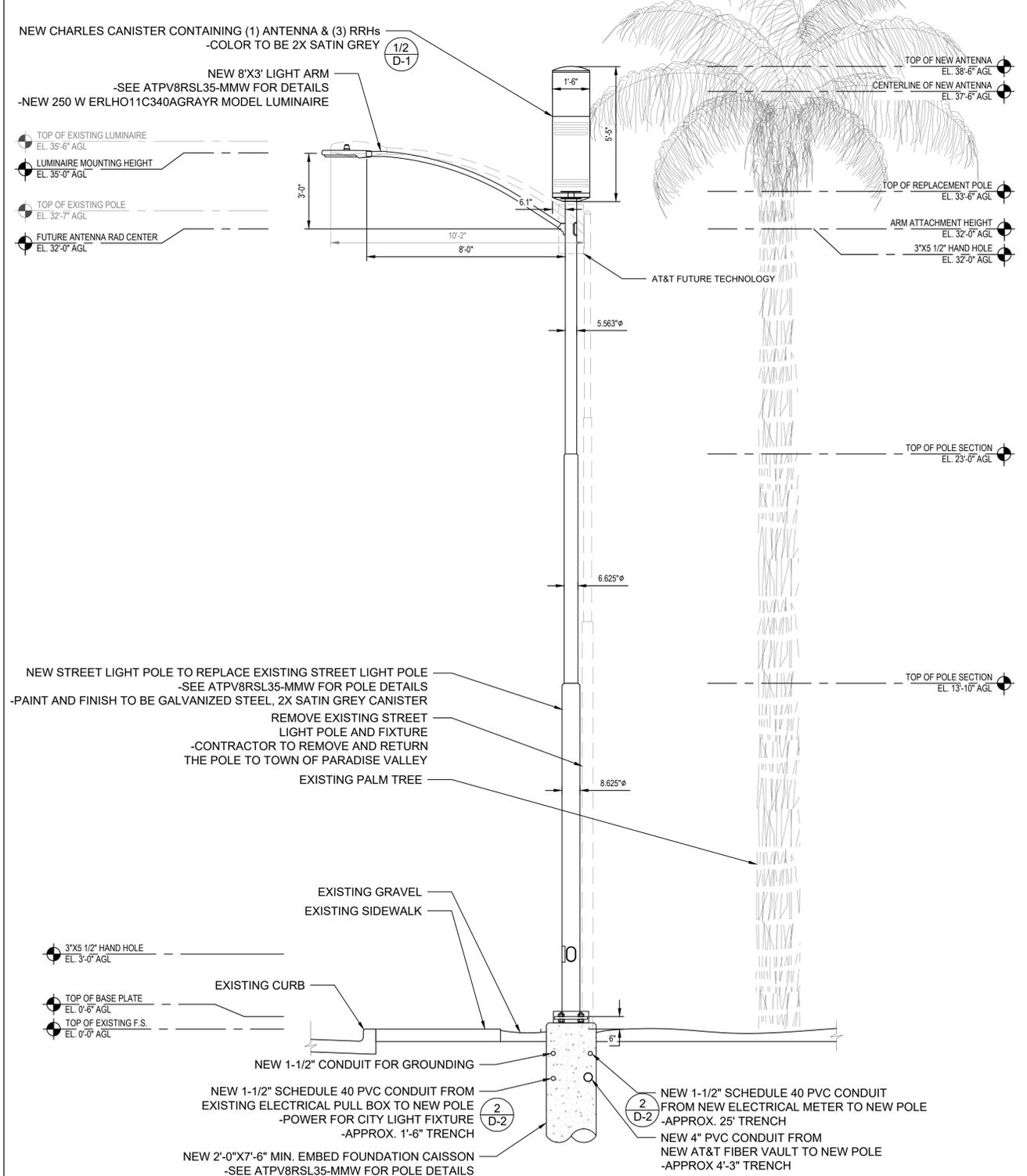
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PROPOSED AND EXISTING WEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"

1



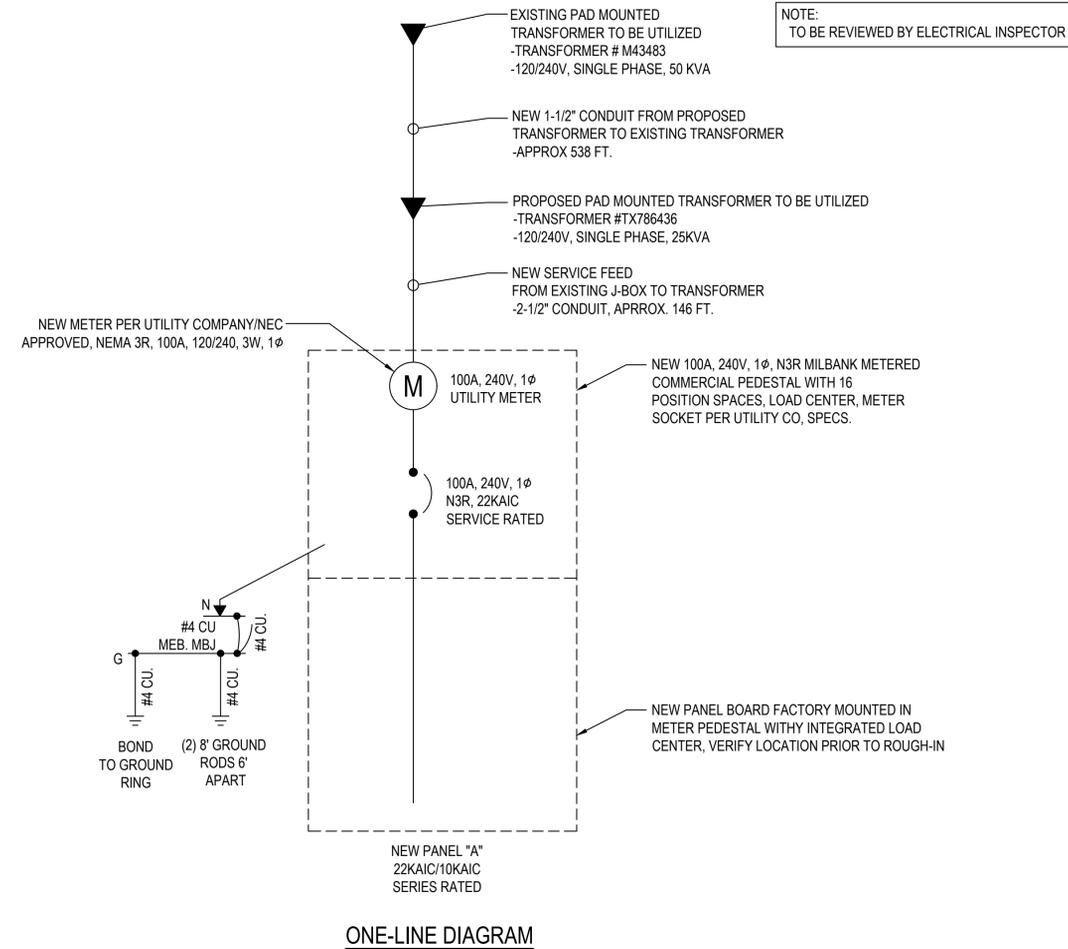
PROPOSED AND EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"

2

ELECTRICAL INSTALLATION NOTES:

1. WIRING, RACEWAY, AND SUPPORT METHODS AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC AND TELCORDIA.
2. SUBCONTRACTOR SHALL MODIFY EXISTING CABLE TRAY SYSTEM AS REQUIRED TO SUPPORT RF AND TRANSPORT CABLING TO THE NEW BTS EQUIPMENT. SUBCONTRACTOR SHALL SUBMIT MODIFICATIONS TO CONTRACTOR FOR APPROVAL.
3. ALL CIRCUITS SHALL BE SEGREGATED AND MAINTAIN MINIMUM CABLE SEPARATION AS REQUIRED BY THE NEC AND TELCORDIA.
4. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
5. EACH END OF EVERY POWER, GROUNDING, AND T1 CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). THE IDENTIFICATION METHOD SHALL CONFORM WITH NEC & OSHA, AND MATCH EXISTING INSTALLATION REQUIREMENTS.
6. POWER PHASE CONDUCTORS (I.E., HOTS) SHALL BE LABELED WITH COLOR-CODED INSULATION OR ELECTRICAL TAPE (3M BRAND, 1/2 INCH PLASTIC ELECTRICAL TAPE WITH UV PROTECTION, OR EQUAL). PHASE CONDUCTOR COLOR CODES SHALL CONFORM WITH THE NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS.
7. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING, PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING, AND BRANCH CIRCUIT ID NUMBERS (I.E., PLANELOAD AND CIRCUIT ID'S).
8. PANELBOARDS (ID NUMBERS) AND INTERNAL CIRCUIT BREAKERS (CIRCUIT ID NUMBERS) SHALL BE CLEARLY LABELED WITH ENGRAVED LAMACOID PLASTIC LABELS.
9. ALL TIE WRAPS WHERE PERMITTED SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES. USE LOW PROFILES TIE WRAPS.
10. POWER, CONTROL, AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE SINGLE CONDUCTOR (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
11. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (6 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2 GREEN INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED, UNLESS OTHERWISE SPECIFIED.
12. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS, OR BELOW GRADE, SHALL BE SINGLE CONDUCTOR 2 AWG SOLID TINNED COPPER CABLE, UNLESS OTHERWISE SPECIFIED.
13. POWER WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC CABLE (12 AWG OR LARGER), 600 V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90 °C (WET AND DRY) OPERATION; WITH OUTER JACKET; LISTED OR LABELED FOR THE LOCATION USED, UNLESS OTHERWISE SPECIFIED.
14. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL BE RATED FOR OPERATION AT NO LESS THAN 75°C (90°C IF AVAILABLE).
15. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
16. NEW RACEWAY OR CABLE TRAY WILL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
17. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
18. ELECTRICAL METALLIC TUBING (EMT), ELECTRICAL NONMETALLIC TUBING (ENT), OR RIGID NONMETALLIC CONDUIT (RIGID PVC, SCHEDULE 40) SHALL BE USED FOR CONCEALED INDOOR LOCATIONS.
19. GALVANIZED STEEL INTERMEDIATE METALLIC CONDUIT (IMC) SHALL BE USED FOR OUTDOOR LOCATIONS ABOVE GRADE.
20. RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40 OR RIGID PVC SCHEDULE 80) SHALL BE USED UNDERGROUND; DIRECT BURIED, IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC.
21. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
22. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION-TYPE AND APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE.
23. CABINETS, BOXES, AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSII/IEEE, AND NEC.
24. CABINETS, BOXES, AND WIREWAYS TO MATCH THE EXISTING INSTALLATION WHERE POSSIBLE.
25. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
26. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
27. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL 514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
28. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
29. THE SUBCONTRACTOR SHALL NOTIFY AND OBTAIN NECESSARY AUTHORIZATION FROM THE CONTRACTOR BEFORE COMMENCING WORK ON THE AC POWER DISTRIBUTION PANELS.
30. THE SUBCONTRACTOR SHALL PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH THE APPLICABLE CODES AND STANDARDS TO SAFEGUARD AGAINST LIFE AND PROPERTY.



PICO CRAN PANEL
120/240V, 1PH, 3W, 100A MAIN CIRCUIT BREAKER
22KAIC RATED

CCT NO.	LOAD CODE	LOAD DESCRIPTION	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	LOAD (KVA)	BKR SIZE	LOAD DESCRIPTION	LOAD CODE	CCT NO.
1		UNUSABLE SPACE						100/2	MAIN BREAKER		2
3		UNUSABLE SPACE									4
5	3	PCS RRH	15/1	0.50	0.50				BUSSED SPACE		6
7	3	AWS RRH	15/1	0.50		0.50			BUSSED SPACE		8
9	3	LLA RRH	15/1	0.50		0.50			BUSSED SPACE		10
11		BUSSED SPACE				0.00			BUSSED SPACE		12
13		BUSSED SPACE				0.00			BUSSED SPACE		14
15		BUSSED SPACE				0.00			BUSSED SPACE		16

FEED THRU LOADS/PHASE (WHERE APPLICABLE)

PEAK DEMAND PER 220-87 (WHERE APPLICABLE): 80% 1.25	0.00	0.00		
PHASE TOTALS (KVA/Phase)	1.00	0.50		
DEMAND LOADS MAY VARY FROM CONNECTED	Connected KVA	1.50	6	Connected AMPS
LOADS BECAUSE OF CODE DIVERSITIES	Demand KVA	1.50	6	Demand AMPS

CIRCUIT NUMBERING BY POLE POSITION
CIRCUIT BREAKERS FEEDING A/C EQUIPMENT SHALL BE "HACK" RATED.
ALL BREAKERS SHALL BE FULLY RATED

Load Code	Load Summaries	Connected KVA	Factor	Demand KVA	Phase amps Phase (A) Phase (B)
3	Special Loads	1.50	1.00	1.50	7.22 3.61
	Subtotals	1.50		1.50	
	Total KVA	1.50		1.50	Spare Capacity (Amps) Spare Capacity Load (%) 94 94%

PANEL SCHEDULE(PICO)



THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T WIRELESS. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED.



REV	BY	DATE	DESCRIPTION
0	AJ	08.15.19	100% CD'S
1	AJ	01.31.20	CLIENT COMMENTS
2	AJ	04.13.20	POWER DESIGN UPDATE
3	AJ	07.27.20	CITY COMMENTS
4	AJ	08.20.20	SIGHT LINE UPDATE
5	NL	11.19.20	POLE DESIGN

CHECKED BY: DM



SITE NAME & ADDRESS:
**AT&T SITE ID:
CRAN_RANM:
PHX01_010_A**

5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
**ELECTRICAL PANEL SCHEDULE
AND ONE-LINE DIAGRAM**

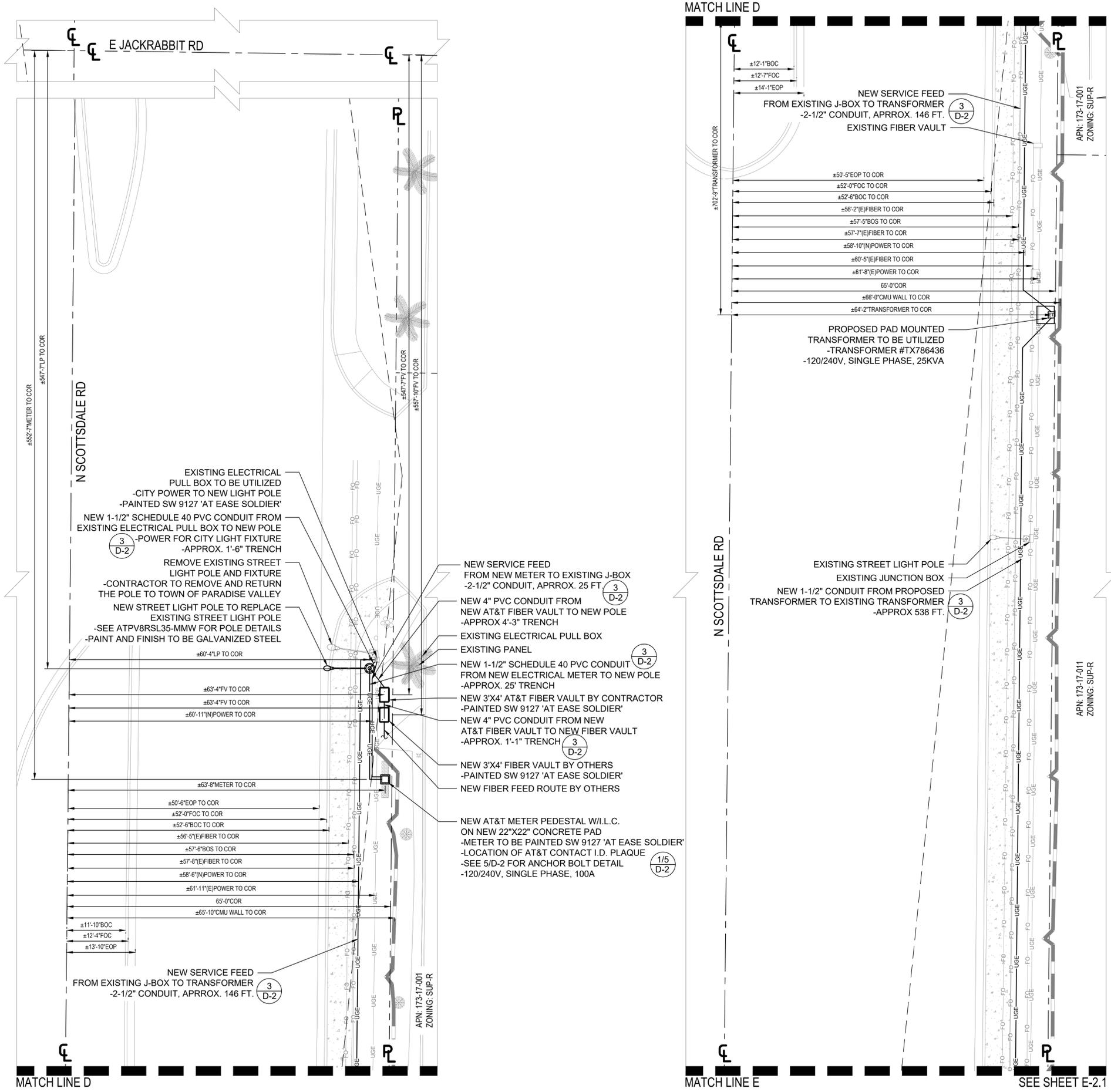
SHEET NO:
E-1

GENERAL NOTES

UNDERGROUND UTILITIES:
EXISTING UNDERGROUND UTILITIES ARE BASED ON BLUE STAKE MARKINGS AND ARE APPROXIMATE. CONTRACTOR TO LOCATE & PROTECT ALL EXISTING UNDERGROUND UTILITIES DURING CONSTRUCTION.

- CONTRACTOR NOTES:**
- CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM CONSTRUCTION BACK TO PRE-CONSTRUCTION CONDITION AT COMPLETION OF WORK.
 - CONTRACTOR SHALL COORDINATE SITE ACCESS TIMES & EQUIPMENT STAGING LOCATIONS WITH APS.
 - THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY.
 - NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY.

NEW MAST ARM AND LED LUMINAIRE TO BE INSTALLED ON NEW STREET LIGHT POLE #11 FOR CONSISTENCY IN LUMINARIES



THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY AND CONFIDENTIAL TO AT&T WIRELESS. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO AT&T WIRELESS IS STRICTLY PROHIBITED.



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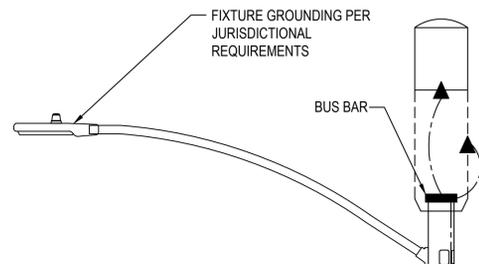
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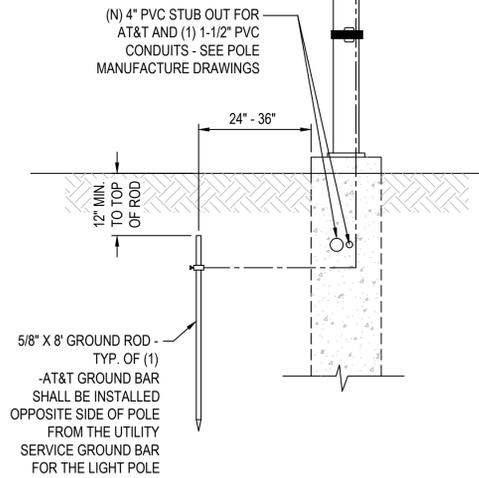
SITE NAME & ADDRESS:
**AT&T SITE ID:
CRAN_RANM:
PHX01_010_A**
5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
SITE POWER PLAN

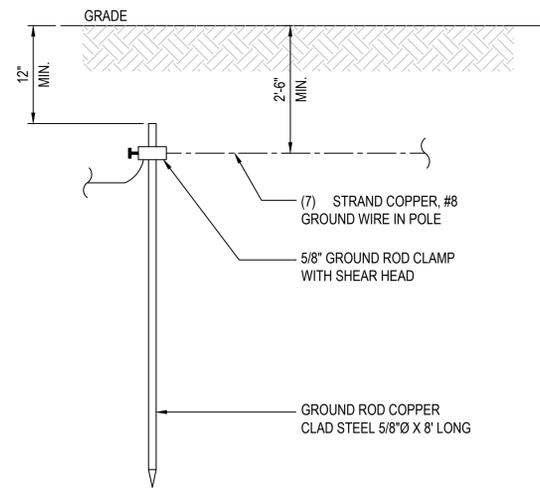
SHEET NO:
E-2



(7) STRAND COPPER, #6 GROUND WIRE IN POLE



IF A SINGLE GROUND ROD DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IT SHALL BE SUPPLEMENTED BY AN ADDITIONAL GROUND ROD. SEPARATION BETWEEN GROUND RODS MUST BE AT A MINIMUM DISTANCE OF 6'

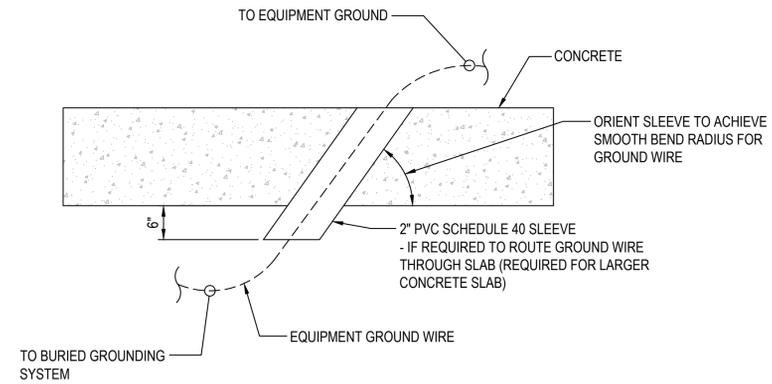


GROUND ROD DETAIL

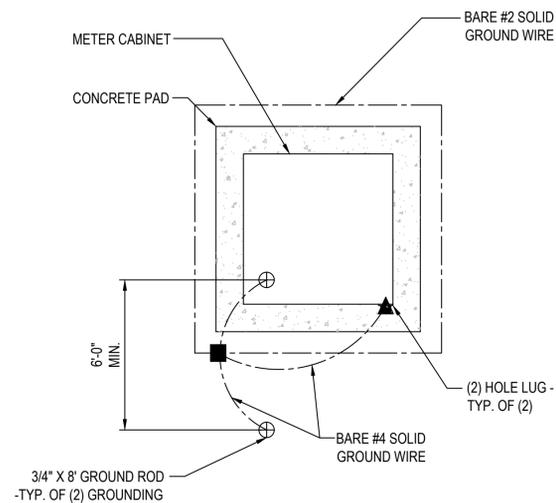
N.T.S.

1

GROUNDING DETAIL



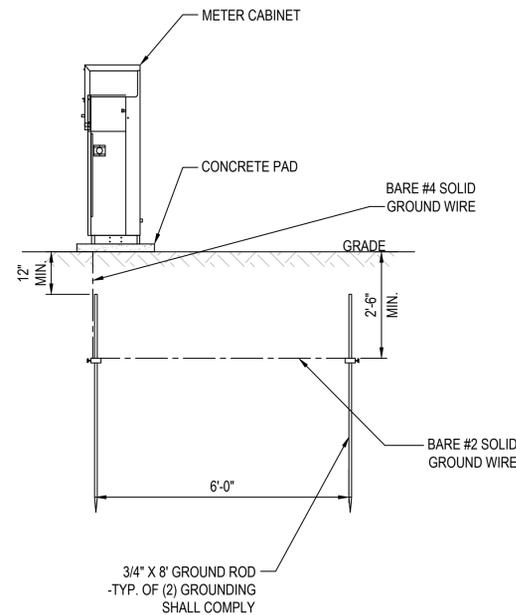
- ⊕ GROUND ROD
- CADWELD
- ▲ MECHANICAL CONNECTION
- GROUND CONDUCTOR



METER GROUNDING DETAIL

N.T.S.

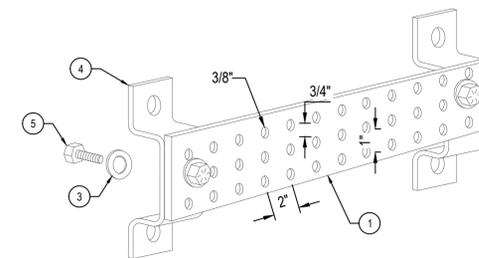
3



N.T.S.

4

GROUND BAR



1. TINNED COPPER GROUND BAR, 1/4" X 4" X 20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION
2. NOT USED
3. 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-5056
5. 5/8"-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1

N.T.S.

5



1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201

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PLANS PREPARED FOR:



8502 E VIA DE VENTURA, SUITE 220
SCOTTSDALE, AZ 85258

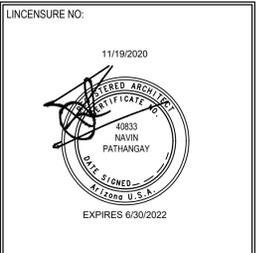
PLANS PREPARED BY:



WWW.STATE48CONSULTING.COM
8687 E. VIA DE VENTURA STE 115
SCOTTSDALE, AZ 85258
480-242-2477

REV	BY	DATE	DESCRIPTION
0	AJ	08.15.19	100% CD's
1	AJ	01.31.20	CLIENT COMMENTS
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CHECKED BY: DM



SITE NAME & ADDRESS:

AT&T SITE ID:
CRAN_RANM:
PHX01_010_A

5401 N SCOTTSDALE RD
SCOTTSDALE, AZ 85250

SHEET TITLE:
GROUNDING
DETAILS

SHEET NO:
G-1

GENERAL STRUCTURAL NOTES

BUILDING CODE

2015 EDITION OF THE INTERNATIONAL BUILDING CODE

LOADS

WIND

WIND SPEED (ULTIMATE 3-SEC GUST), $V_{ult} = 115$ MPH
 WIND SPEED (NOMINAL 3-SEC GUST), $V_{ult} = 89$ MPH (SEC 1609.1.1)
 WIND EXPOSURE CATEGORY = C
 RISK CATEGORY = II

SEISMIC

$S_{ps} = 0.225g$ (MAX)
 $S_{D1} = 0.125g$ (MAX)
 SITE SOIL CLASS = D
 SEISMIC DESIGN CATEGORY = B
 SEISMIC FORCE RESISTING SYSTEM = STEEL TELECOMMUNICATIONS POLE (R = 1.5)

THESE DRAWINGS ARE ISSUED FOR MULTI-USE WITHIN PARADISE VALLEY, ARIZONA. THE LOAD CRITERIA LISTED ABOVE IS EXPECTED TO BE SUFFICIENT FOR TYPICAL CONDITIONS ON FLAT OPEN TERRAIN BUT DOES NOT TAKE INTO ACCOUNT LOCATIONS ON HILLS, CLIFFS, SUDDEN CHANGES IN TOPOGRAPHY AND/OR OTHER SPECIAL CONDITIONS. CONTACT EOR WITH QUESTIONS OR SPECIAL CONDITIONS.

FOUNDATIONS

DRILLED PIER FOUNDATIONS ARE BASED ON THE PRESUMPTIVE SOIL BEARING VALUES PROVIDED IN TABLE 1806.2, SOIL CLASS 5 AND HAVE BEEN INCREASED BY A FACTOR OF TWO PER 1806.3.4.
 ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF/FT x 2 = 200 PSF/FT.

CONCRETE

ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST EDITION OF THE ACI. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED. PLACEMENT OF PLUMBING, CONDUITS, OR OTHER MATERIALS WITHIN CONCRETE FOUNDATIONS OR STRUCTURAL ELEMENTS IS PROHIBITED EXCEPT WHERE SHOWN.

SPECIFIED MINIMUM 28 DAY STRENGTH AS FOLLOWS:

DRILLED PIER CONCRETE: $f'_c = 3,000$ PSI MIN (CLASS "A" MAG 725)

REINFORCING STEEL (REBAR)

ALL REINFORCING SHALL COMPLY WITH ACI AND CRSI SPECIFICATIONS. FOR #5 BARS AND LARGER USE ASTM A615 GRADE 60 DEFORMED BARS ($F_y = 60$ KSI). FOR #4 BARS AND SMALLER USE ASTM A615 GRADE 40 DEFORMED BARS ($F_y = 40$ KSI). ASTM A615 BARS ARE NOT TO BE WELDED. NO WELDING OF REINFORCING BARS IS PERMITTED FOR THIS PROJECT.

CLEAR DISTANCE FROM THE EDGE OF REINFORCING BAR TO THE EDGE OF CONCRETE SHALL BE PER ACI 318 AND IS AS FOLLOWS:

CONCRETE AGAINST EARTH = 3" CLR
 CONCRETE AGAINST AIR = 1-1/2" CLR (FOR NO. 5 & SMALLER)

REINFORCING STEEL SHALL BE PLACED AS SHOWN IN THE PLANS AND MUST NOT BE MORE OR LESS THAN 3/8" OF THE DIMENSIONS SPECIFIED. THIS INCLUDES MINIMUMS AND CLEAR DISTANCES. ENSURE REINFORCING IS KEPT DRY AND IS PROPERLY SUPPORTED WITH CLEAR DISTANCES FROM SOILS.

ANCHOR RODS (ANCHOR BOLTS)

ANCHORAGE TO THE CONCRETE FOUNDATION IS ACHIEVED VIA A DOUBLE-NUT MOMENT JOINT. ANCHOR RODS SHALL BE TENSIONED TO THE SPECIFICATIONS BELOW. ANCHOR RODS SHALL BE THREADED AND NUTTED. CONTRACTOR SHALL ENSURE NUTS DO NOT SPIN OFF DURING VIBRATION OF CONCRETE BY PROVIDING AN ACCEPTABLE LOCKING MECHANISM OR BY TACK WELDING THE NUT TO ANCHOR ROD. NUTS AND ANCHOR RODS ARE TO BE GALVANIZED IN SAME PROCESS TO ENSURE WORKABLE THREADS.

ANCHOR BOLT GRADE: F1554 Gr 55

TIGHTENING

ANCHOR RODS SHALL BE LUBRICATED BEFORE TIGHTENING. TIGHTENING SHALL BE PERFORMED IN A STAR PATTERN. TOP NUTS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION THEN LEVELING NUTS SHALL BE MADE SNUG TIGHT. CONFIRM TORQUE AT TOP NUT IS WITHIN THE INITIAL TORQUE SHOWN IN TABLE BELOW. MARK BOLTS AFTER INITIAL TORQUE IS ACHIEVED.

TOP NUTS SHALL THEN BE TENSIONED USING THE TURN OF THE NUT METHOD BY ROTATING THE NUT A TOTAL OF 1/3 TURN PAST INITIAL TORQUE. IT IS RECOMMENDED THAT THE TOTAL 1/3 TURN BE COMPLETED USING A MINIMUM OF (2) INCREMENTAL STEPS WITH STAR PATTERN TIGHTENING. USING A CALIBRATED TORQUE WRENCH, VERIFY THAT THE VERIFICATION TORQUE HAS BEEN REACHED.

AFTER AT LEAST 48 HOURS, THE CONTRACTOR SHALL RE-VISIT THE SITE AND CONFIRM THAT A TORQUE OF AT LEAST 110% OF THE VERIFICATION TORQUE CAN BE REACHED TO ENSURE BOLTS WILL REMAIN TENSIONED AND HAVE NOT RELAXED. INSTALL SECOND NUT OR JAMB NUT ON TOP OF ASSEMBLY AND TIGHTEN JAMB NUT TO BE SNUG TIGHT.

DO NOT OVER TIGHTEN. CONTACT EOR WITH ANY EXCESSIVE TIGHTENING, STRIPPED THREADS, OR OTHER CONCERNS.

TORQUE VALUES (FT-LBS)			
FOR: 1-1/4" DIA. F1554 Gr 55	INITIAL TORQUE	VERIFICATION TORQUE ($T_v = 0.12d_s^2 m$)	110% x T_v (48 HOURS LATER)
	110 - 165	550	600

STRUCTURAL STEEL

ALL STRUCTURAL STEEL CONSTRUCTION SHALL COMPLY WITH THE LATEST EDITION OF THE AISC STEEL CONSTRUCTION MANUAL AND ASTM STANDARDS. ALL STRUCTURAL STEEL MATERIAL MUST BE MILL CERTIFIED. ALL STRUCTURAL MEMBERS ARE TO BE HOT DIPPED GALVANIZED ACCORDING TO THE APPROPRIATE ASTM STANDARD. THE FOLLOWING STEEL GRADES SHALL APPLY UNLESS NOTED OTHERWISE.

ROUND HSS (POLE STEEL):	ASTM A500	($F_y = 42$ KSI MIN)
LUMINAIRE:	ASTM A500	($F_y = 42$ KSI MIN)
BASE PLATE:	ASTM A36	($F_y = 36$ KSI)
MISC STEEL:	ASTM A36	($F_y = 36$ KSI)

WELDING:

ALL WELDING SHALL COMPLY WITH THE LATEST EDITION OF THE AWS STANDARD. ALL WELDING SHALL UTILIZE TYPE E70 RODS. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. THESE PLANS DO NOT INDICATE WHETHER WELDING MUST BE DONE IN SHOP OR FIELD. CONTRACTOR CAN PROVIDE SHOP OR FIELD WELDING AT CONTRACTORS DISCRETION AS BEST SUITS THE PROJECT'S MEANS AND METHODS.

BOLTS:

ALL THRU-BOLT TYPE CONDITIONS SHALL UTILIZE A WASHER AT EACH SIDE OF THE CONNECTION AND TIGHTENED TO A SNUG TIGHT CONDITION. SEE DETAILS FOR BOLT SIZE AND GRADE.

GENERAL NOTES

ALL WORK PRESENTED WITHIN THESE DRAWINGS AND DETAILS SHALL ONLY BE PERFORMED BY A CONTRACTOR THAT IS EXPERIENCED AND KNOWLEDGEABLE IN THE TYPE OF WORK BEING PERFORMED AND HAS A HISTORY OF COMPLETING SIMILAR PROJECTS. ONLY A CONTRACTOR THAT IS LICENSED AND REGISTERED IN THE STATE WHERE THE WORK IS TO BE PERFORMED SHALL BE PERMITTED TO PERFORM THE WORK.

CONTRACTOR MUST CONFORM TO THE CITY STANDARDS, SPECIFICATIONS, & AMENDMENTS TO THE MAG/ADOT STANDARDS. SEE CITY SPECIFICATIONS AND DETAILS FOR ADDITIONAL INFORMATION & NOTIFY THE BUILDING OFFICIAL AND EOR OF ANY DISCREPANCIES. ADDITIONALLY, CONTRACTOR MUST BE FAMILIAR WITH THE ADOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE STRUCTURAL PLANS AND DETAILS DEPICT THE REQUIREMENTS FOR THE FINISHED STRUCTURAL ELEMENTS. THESE PLANS DO NOT PROVIDE DIRECTION FOR ELECTRICAL, MECHANICAL, OR OTHER SCOPES. THE PLANS AND DETAILS DO NOT PROVIDE THE CONTRACTOR WITH "MEANS AND METHODS" OF CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL REQUIRED MEASUREMENTS AND INFORMATION IN ORDER TO MEET THE STRUCTURAL REQUIREMENTS OF THESE PLANS. ANY ADDITIONAL INFORMATION NEEDED FROM THE ENGINEER OF RECORD (EOR) CAN BE OBTAINED WITH A FORMAL REQUEST FOR INFORMATION (RFI).

THE PLANS AND DETAILS DO NOT PROVIDE ENGINEERING FOR ANY SHORING, TEMPORARY BRACING, SCAFFOLDING, OR OTHERWISE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SAFE WORK ENVIRONMENT AND TO OBTAIN ANY ADDITIONAL ENGINEERING SERVICES THAT ARE NEEDED IN ORDER TO SUPPORT TEMPORARY LOADS OR LOADS DUE TO CONSTRUCTION ACTIVITIES. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE SEQUENCING, PROCEDURES, OR TECHNIQUES USED BY THE CONTRACTOR.

SPECIAL STRUCTURAL INSPECTIONS

THE SPECIAL INSPECTIONS LISTED BELOW ARE REQUIRED PER CH. 17 OF THE INTERNATIONAL BUILDING CODE.

DRILLED PIER CONSTRUCTION

1. CONTINUOUS INSPECTION OF DRILLING OPERATIONS.
2. VERIFICATION OF SOIL STRATA CONFORMANCE TO PRESUMPTIVE SOIL CLASS.
3. VERIFICATION OF DRILLED SHAFT SIZE AND CONFORMANCE TO FOUNDATION DETAIL.

CONCRETE CONSTRUCTION

1. NO CONCRETE INSPECTION & TESTING OF SPECIMENS IS REQUIRED FOR PLACEMENT OF PIER FOUNDATION CONCRETE. FOUNDATION DESIGN IS BASED ON $f'_c = 2,500$ PSI. ($f'_c = 3,000$ PSI CONCRETE TO BE PROVIDED PER CONCRETE SECTION OF GSN).

STEEL REINFORCING

1. IN-PLACE REINFORCING IN FOUNDATIONS PRIOR TO CONCRETE PLACEMENT.
2. VERIFICATION OF CONFORMANCE TO SPECIFICATIONS AND DETAILS.

ANCHOR BOLTS

1. VERIFICATION OF PROPER MATERIAL SPECIFICATIONS AND CONFORMANCE TO DETAILS.
2. VERIFICATION OF PROPER LUBRICATING AND TIGHTENING OF BOLTS.

WELDING

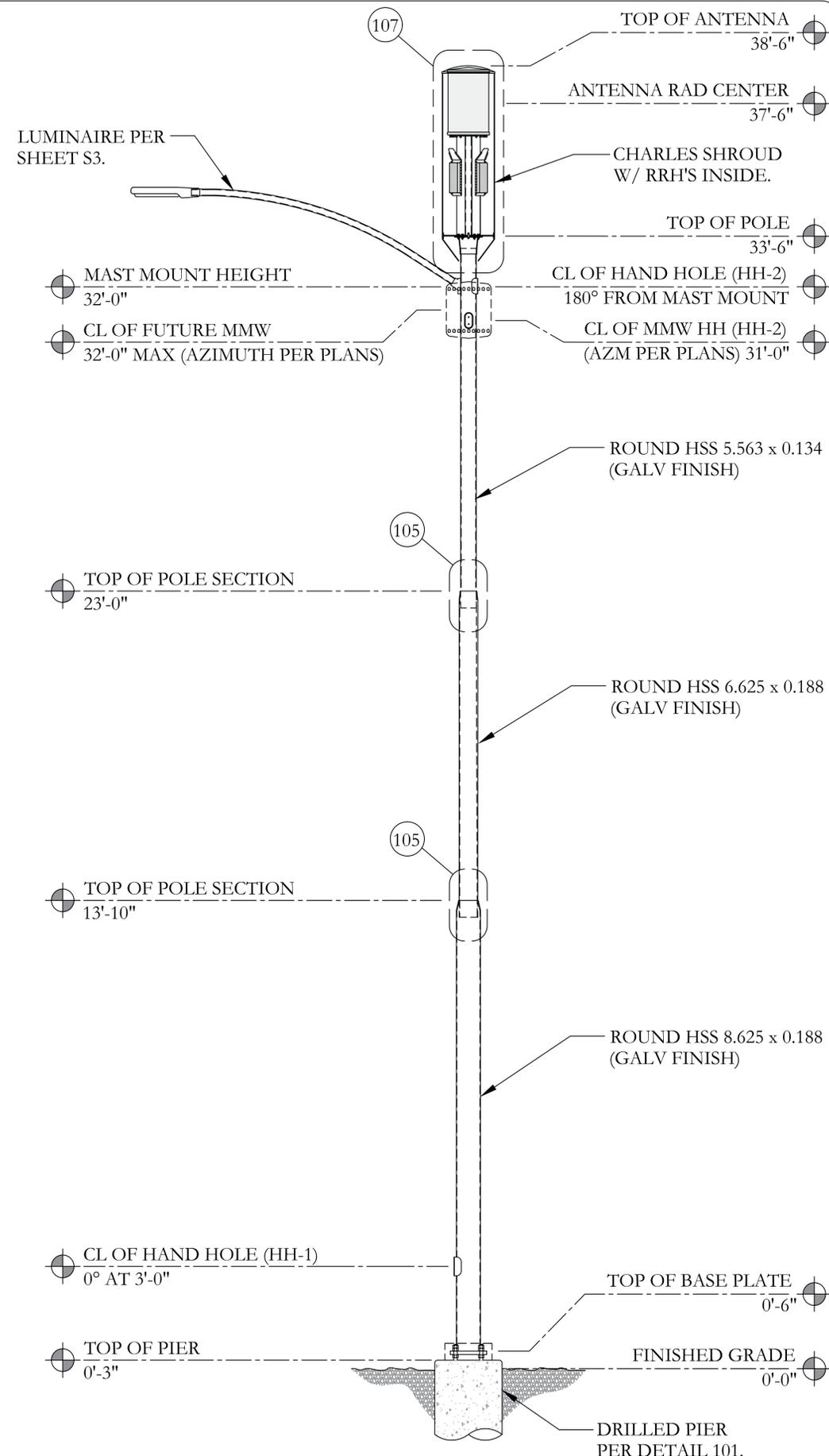
1. PERIODIC INSPECTION OF ALL FIELD WELDS.
2. CONTINUOUS INSPECTION AS REQUIRED BELOW:
 - 2.a. NO PJP, CJP, OR MULTI-PASS FILLET WELDS ARE SPECIFIED FOR THIS PROJECT.

RESPONSIBILITIES OF THE CONTRACTOR

1. ANY DEVIATIONS MUST BE APPROVED IN WRITING FROM THE EOR AND MUST BE ORIGINATED IN WRITING BY THE CONTRACTOR WITH A REQUEST FOR INFORMATION.
2. WHERE THE WORK IS REQUIRED TO BE COMPLETED IN THE PRESENCE OF THE SPECIAL INSPECTOR, THE CONTRACTOR SHALL BE SURE TO PERFORM THE WORK UNDER THE OBSERVANCE OF THE SPECIAL INSPECTOR.
3. AREAS TO BE INSPECTED BY THE SPECIAL INSPECTOR ARE TO BE MADE SAFELY ACCESSIBLE FOR INSPECTION.
4. FOR ANY QUESTIONS REGARDING SPECIAL INSPECTIONS, CONTACT THE EOR.

RESPONSIBILITIES OF THE SPECIAL INSPECTOR

1. THE SPECIAL INSPECTOR SHALL VISIT THE SITE AND ENSURE THE WORK PERFORMED CONFORMS TO THE DETAILS AND SPECIFICATIONS SHOWN ON THE PLANS.
2. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE OR SUGGEST ANY DEVIATIONS FROM WHAT IS SHOWN ON THE PLANS.
3. THE SPECIAL INSPECTOR MUST BE KNOWLEDGEABLE IN THE WORK BEING PERFORMED, KNOW THE MANUFACTURER REQUIREMENTS AND UNDERSTAND ITEMS REQUIRING INSPECTION AND OBSERVATION.
4. THE SPECIAL INSPECTOR MUST PROVIDE WRITTEN INSPECTION REPORTS TO BOTH THE ENGINEER OF RECORD AND THE BUILDING OFFICIAL.
5. ANY DISCREPANCIES REQUIRING CORRECTION MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF LEFT UNCORRECTED, THE DISCREPANCIES MUST BE MADE KNOWN TO THE EOR AND BUILDING OFFICIAL.



A POLE ELEVATION
NTS



ATPV8RSL35-MMW
 SMALL CELL LIGHT POLE
 MULTI-USE DESIGN
 PARADISE VALLEY, AZ

REV	ISSUED	DATE
0	ISSUED FOR PERMIT	05.17.20



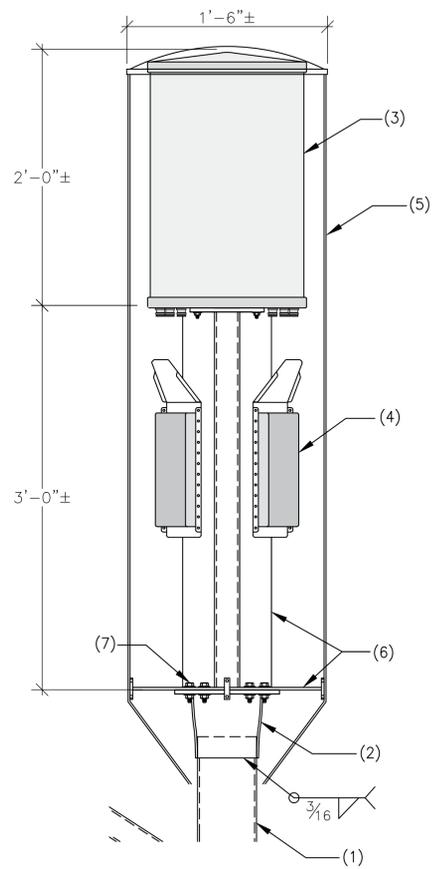
INTEGRITY. QUALITY. EXPERTISE.
 2487 S. GILBERT RD. STE. 106-(607)
 GILBERT, AZ 85295
 480.329.0493
 WWW.CALIBER-ES.COM

JOB: 20-S074 ENG: MEN

GSN & ELEVATION

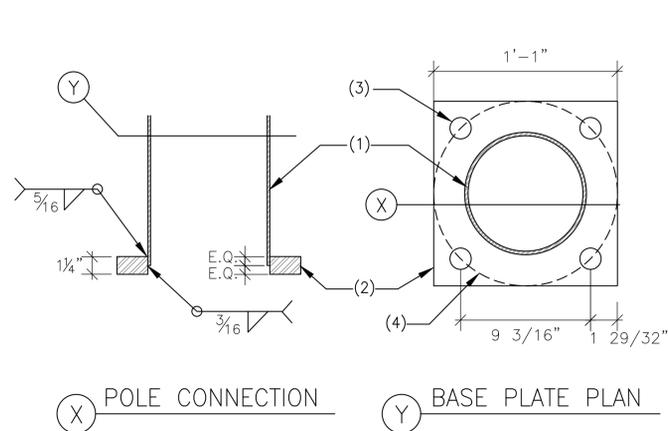
S1

0



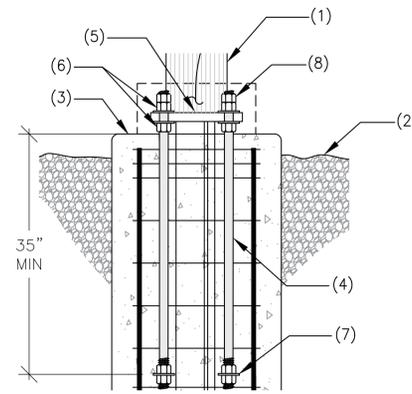
1. STEEL POLE PER ELEVATION.
2. STEPPED POLE REDUCER WITH FLANGE PLATE PER DETAIL 106.
3. ANTENNA.
4. RADIO EQUIPMENT.
5. SHROUD BY CHARLES INDUSTRIES.
6. MOUNT & PLATE ASSEMBLY PROVIDED BY CHARLES INDUSTRIES.
7. (6) 3/8" DIA. A307 THRU-BOLTS WITH WASHER EACH SIDE. ALIGN (6) HOLES WITH HOLES PROVIDED BY CHARLES SHROUD AND BOLT DOWN. OTHER (6) HOLES ARE FOR ANTENNA ROTATIONAL ADJUSTMENTS.

ANTENNA ATTACHMENT SUPPLIED BY CHARLES SHROUD. CONTRACTOR TO COORDINATE ANTENNA WITH CORRESPONDING CHARLES SHROUD ASSEMBLY.



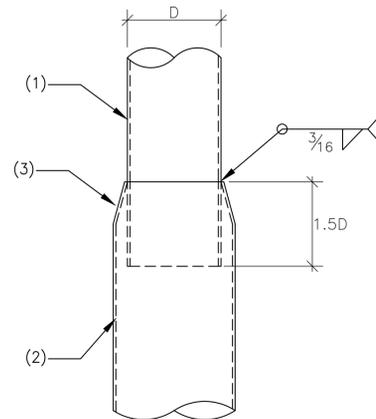
- (X) POLE CONNECTION (Y) BASE PLATE PLAN
1. STEEL MONOPOLE BASE.
 2. 13x13x1-1/4 STEEL BASE PLATE.
 3. 1-1/2" DIA. HOLES FOR ANCHOR BOLTS.
 4. 13" DIA. BOLT CIRCLE.

104 BASE PLATE & BASE PLATE CONNECTION NTS



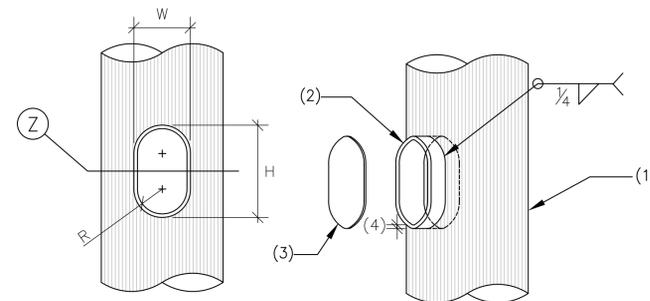
1. STEEL MONOPOLE.
2. FINISHED GRADE.
3. DRILLED PIER PER DETAIL 101.
- (4) 1-1/4" DIA. x 44" LONG ANCHOR RODS. LEAVE 6" PROJECTION ABOVE PIER.
5. BASE PLATE AND CONNECTION TO POLE PER DETAIL 104.
6. HEAVY HEX NUT W/ STRUCTURAL WASHER AT EACH SIDE OF PLATE - PRETENSIONED - TIGHTEN PER GSN.
7. MIN 3x3x1/4 PLATE WASHER W/ HEAVY HEX NUT EACH SIDE.
8. AFTER TENSIONING ROD - INSTALL SECOND NUT PER GSN.

102 BASE ANCHORAGE TO DRILLED PIER NTS



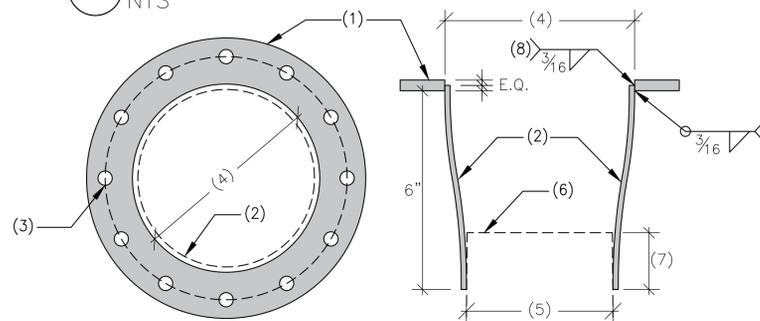
- (X) ELEVATION (Y) ISOMETRIC
1. UPPER POLE SECTION.
 2. LOWER POLE SECTION.
 3. CRIMP TOP OF LOWER POLE SECTION.

105 POLE SPLICE CONNECTION NTS



(X) ELEVATION (Y) ISOMETRIC

107 TOP OF POLE ASSEMBLY NTS

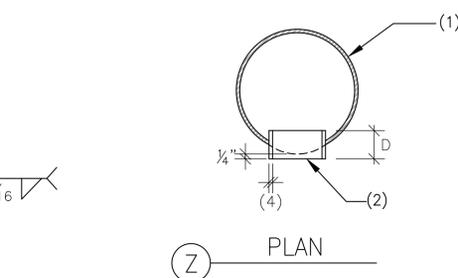


(X) FLANGE PLAN (Y) REDUCER SECTION

1. 9-7/8" OD x 3/8" THICK STEEL PLATE.
- 3/16" THICK SECTION - CRIMP TO DIMENSIONS SHOWN.
- (12) 1/2" DIA. HOLES ON A 8-9/16" BOLT CIRCLE.
- 6-5/8" DIA. HOLE TO ACCEPT CRIMPED SECTION.
- 5-3/4" INSIDE DIAMETER TO ACCEPT POLE SECTION BELOW.
- POLE SECTION BELOW.
- 2" MIN.
- (4) WELDS, 2" LONG - EQUALLY SPACED, OR ALL AROUND.

ALIGN (6) HOLES WITH (6) HOLES IN CHARLES SHROUD. OTHER HOLES ARE FOR ANTENNA ADJUSTMENTS.

106 STEPPED POLE REDUCER W/ FLANGE NTS

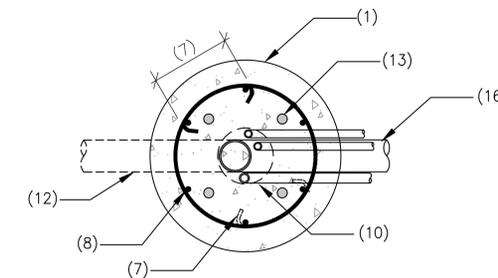
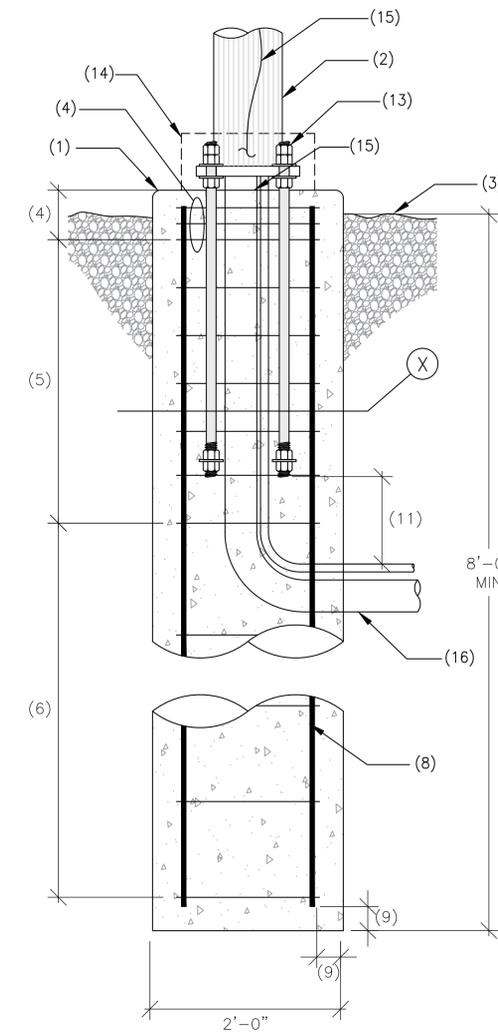


(Z) PLAN

1. STEEL MONOPOLE PER ELEVATION.
- HAND HOLE - SEE POLE ELEVATION FOR LOCATION AND MARK. SEE SCHEDULE BELOW FOR CORRESPONDING SIZE.
- PROVIDE COVER PLATE ASSEMBLY AT HAND HOLES.
- THICKNESS PER 't' IN THE TABLE BELOW.

HAND HOLE SCHEDULE					
MARK	HEIGHT (H)	WIDTH (W)	DEPTH (D)	RADIUS (R)	THICK (t)
HH-1	6 1/2 IN	4 IN	2 IN	1 3/4 IN	1/4 IN
HH-2	5 1/2 IN	3 IN	2 IN	1 1/4 IN	1/4 IN

103 HAND HOLE SCHEDULE NTS



(X) SECTION

1. CONCRETE DRILLED PIER.
- STEEL MONOPOLE PER ELEVATION.
- FINISHED GRADE.
- (3) #3 TIES EQUALLY SPACED IN TOP 6" OF CONCRETE PIER.
- #3 TIES AT 6" O.C. - CONTINUED PAST ANCHOR BOLT EMBEDMENT.
- #3 TIES AT 12" O.C MAX FOR REMAINDER OF PIER DEPTH.
- LAP TIES 12" MIN. STAGGER LAPS 180°.
- (6) #6 LONGITUDINAL BARS EQUALLY SPACED.
- MIN 3" CLR PER GSN.
- CONTRACTOR TO BIND VERTICAL RUN OF CONDUIT TOGETHER SUCH THAT BOUND CONDUIT RUN DOES NOT EXCEED 7" DIA CICLE. PLACE VERTICAL RUN IN CENTER OF DRILLED PIER.
- 12" MIN.
- ALTERNATE CONDUIT APPROACH.
- ANCHOR RODS AND ANCHORAGE PER DETAIL 102.
- SQUARE BASE COVER.
- GROUND PER CITY REQUIREMENTS.
- CONDUIT SIZE AND QUANTITY PER AT&T AND CITY STANDARDS. VERIFY WITH CURRENT AT&T AND CITY STANDARDS.

101 DRILLED PIER FOUNDATION NTS



ATPV8RSL35-MMW
SMALL CELL LIGHT POLE
MULTI-USE DESIGN
PARADISE VALLEY, AZ

REV	ISSUED	DATE
0	ISSUED FOR PERMIT	05.17.20



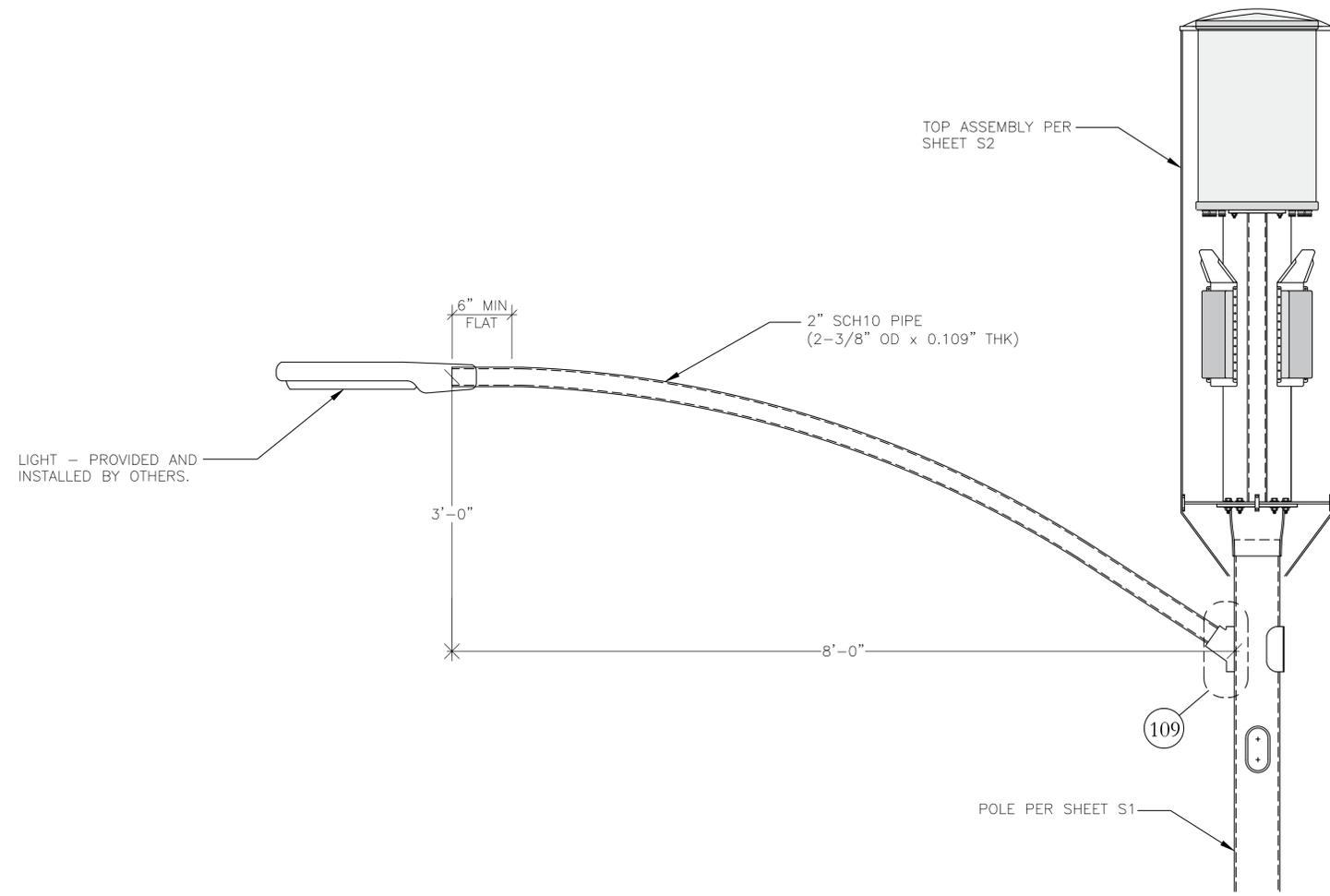
CES
CaliberEngineering
Solutions
INTEGRITY. QUALITY. EXPERTISE.
2487 S. GILBERT RD. STE. 106-(607)
GILBERT, AZ 85295
480.329.0493
WWW.CALIBER-ES.COM

JOB: 20-S074 ENG: MEN

POLE DETAILS

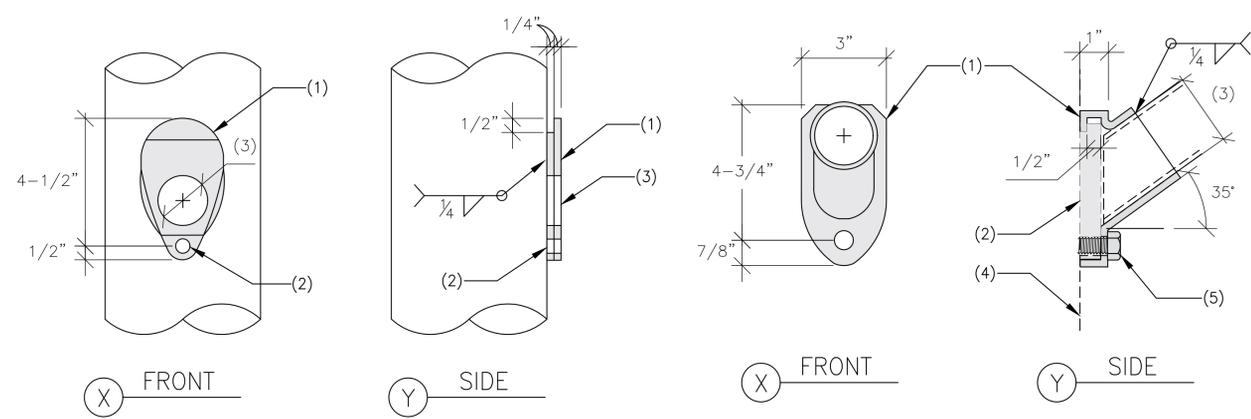
S2 0

ATPV8RSL35-MMW
 SMALL CELL LIGHT POLE
 MULTI-USE DESIGN
 PARADISE VALLEY, AZ



108 LUMINAIRE MAST
 NTS

REV	ISSUED	DATE
0	ISSUED FOR PERMIT	05.17.20



1. APS SIMPLEX FITTING SHOE.
 2. 1/2" DIA. HOLE. DRILL AND TAP TO RECIEVE 1/2" HEX HEAD CAP SCREW.
 3. 1-3/4" DIA. HOLE.

1. APS SIMPLEX FITTING FOOT (MIN 1/4" THICK STEEL).
 2. APS SIMPLEX FITTING SHOE PER DETAIL 110.
 3. OPENING TO RECIEVE A 2" NOMINAL (2-3/8" OD) PIPE.
 4. LINE OF FACE OF POLE.
 5. 1/2" DIA. x 5/8" HEX HEAD CAP SCREW (MIN A307 OR GR 5 - MATCH TO TAPPED HOLE).

110 FITTING SHOE
 NTS

109 FITTING FOOT
 NTS



CES
 CaliberEngineering
 Solutions
 INTEGRITY. QUALITY. EXPERTISE.
 2487 S. GILBERT RD. STE. 106-(607)
 GILBERT, AZ 85295
 480.329.0493
 WWW.CALIBER-ES.COM

JOB: 20-S074 ENG: MEN

LIGHT MAST DETAILS

S3 0

ISSUED-FOR-CONSTRUCTION
FINAL DESIGN
 08/03/18 - TRC

TOTAL TRENCH (ft.):	±684'
TOTAL TRENCH IN RAW (ft.):	±684'
(INSTALL)	
TOTAL WIRE DATA FOOTAGE:	
PRIMARY	
6215 UA1/0T =	±576'
SECONDARY / SERVICE / ST. LT. / D-D	
6220 UA1/0AV =	±170'

GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION

- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
- THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
- THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF AN ENCROACHMENT PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
- A PUBLIC WORKS INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE RIGHTS-OF-WAY AND IN EASEMENTS; NOTIFY INSPECTION SERVICES 24 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING 480-312-5750.
- WHENEVER EXCAVATION IS NECESSARY, CALL BLUE STAKE CENTER, 602-263-1100. TWO WORKING DAYS BEFORE EXCAVATION BEGINS. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT. CALL "COLLECT" IF NECESSARY.
- ENCROACHMENT PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. AN ENCROACHMENT PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER THE REGISTRANT HAS PAID A BASE FEE PLUS A FEE FOR INSPECTION SERVICES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE PERMIT WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
- ALL EXCAVATION AND GRADING THAT IS NOT IN THE PUBLIC RIGHTS-OF-WAY OR NOT IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO CHAPTER 70, EXCAVATION AND GRADING, OF THE LATEST EDITION OF THE UNIFORM BUILDING CODE PREPARED BY THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY FOR A FEE ESTABLISHED BY THE UNIFORM BUILDING CODE.

CONSTRUCTION NOTES:

- REFER TO CITY OF SCOTTSDALE WATER SEPARATION DETAIL 2372
- REFER TO CITY OF SCOTTSDALE SEWER SEPARATION DETAIL 2401
- REFER TO CITY OF SCOTTSDALE PAVEMENT REPLACEMENT DETAIL 2200
- REFER TO CITY OF SCOTTSDALE TRENCH BACKFILL DETAIL 2201

APS UTILITIES KEY		
EXISTING		PROPOSED
W	WATER	W
S	SEWER	S
G	GAS	G
SD	STORM DRAIN	SD
IRR	IRRIGATION	IRR
TS	TRAFFIC SIGNAL	TS
T	TELE	T
CATV	CATV	CATV
FO	FIBER	FO
UG ELECTRIC NOMINAL TRANSMISSION (69KV)*		
UG ELECTRIC NOMINAL PRIMARY (12,470/7,200V)*		
UG ELECTRIC NOMINAL SECONDARY/SERVICE (120/240V)*		
OH ELECTRIC NOMINAL TRANSMISSION (69KV)*		
OH ELECTRIC NOMINAL PRIMARY (12,470/7,200V)*		
OH ELECTRIC NOMINAL SECONDARY/SERVICE (120/240V)*		
CONDUIT		
TRENCH RUNNING LINE		
* UNLESS OTHERWISE NOTED		

APS SYMBOLS LEGEND		
EXISTING EQUIPMENT	PROPOSED EQUIPMENT	DESCRIPTION
		- PADMOUNTED TRANSFORMER
		- SWITCHING CABINETS
		- 10 SWITCHING CABINET
		- OH/UG CAPACITOR BANK
		- J-BOX / PULL BOX
		- MANHOLES
		- OH TRANSFORMER
		- OH SWITCH (KPF)
		- APS OWNED POLE
		- APS OWNED STEEL POLE
		- APS OWNED JOINT USE POLE
		- DIP (TRANSITION) POLE
		- STREET LIGHT
		- DUSK TO DAWN LIGHT

GENERAL CONSTRUCTION NOTES
CUSTOMER TO PROVIDE & INSTALL:

- STAKING PROPERTY CORNERS WITH OFFICIAL SURVEY CAPS, ELEVATIONS AND GRADES, THERE IS A RESTAKING FEE IF RESURVEYING IS REQUIRED DUE TO APS SURVEY STAKES BEING DESTROYED IN THE FIELD.
- ALL APPROVED TRENCH & CONDUIT MATERIALS IN COMPLIANCE WITH THE A.P.S. TRENCH AGREEMENT & THE TRANSMISSION & DISTRIBUTION CONSTRUCTION STANDARDS, UNLESS OTHERWISE NOTED.

APS TO PROVIDE, CUSTOMER TO INSTALL:

- EQUIPMENT PADS (EXCEPT 3-PHASE TRANSFORMER PADS), J-BOXES, PULL BOXES, FLAT STRAP AND MANHOLES UNLESS NOTED OTHERWISE. PLEASE CONTACT CSR TO ARRANGE TO PICK UP YOUR MATERIAL.

COORDINATE WITH WO# _____

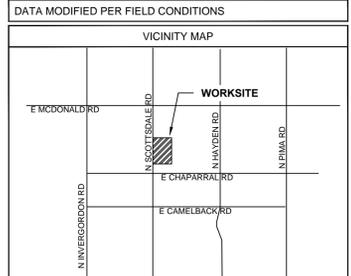
Curbs and Sidewalks
 SIDEWALKS AND CURBS INSTALLED PRIOR TO THE COMPLETION OF APS CONSTRUCTION, WHICH MAY INTERFERE WITH APS CONSTRUCTION, WILL BE REPAIRED AT CUSTOMER'S EXPENSE.

Revisions
 THERE WILL BE A CHARGE TO THE CUSTOMER FOR CHANGES MADE AT THE REQUEST OF THE CUSTOMER TO THE FINAL DESIGN.

Easements
 TRENCH, CONDUIT, AND ANY OTHER FACILITIES INSTALLED PRIOR TO OBTAINING EASEMENTS IS AT THE RISK OF THE CUSTOMER. IF THE FINAL DESIGN MUST CHANGE BECAUSE EASEMENTS CANNOT BE GRANTED, THE CUSTOMER IS RESPONSIBLE FOR ALL COST AND INSTALLATION ASSOCIATED WITH THE CHANGE.

Permits
 APS WILL SUBMIT PERMITS. CONTRACTOR MUST SHOW PROOF OF BOND AND SIGN PERMITS PRIOR TO STARTING WORK.

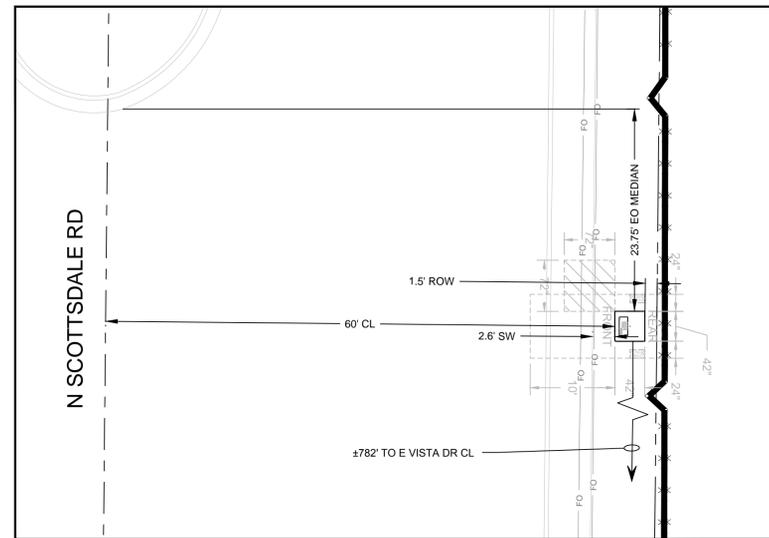
Existing Underground Electric Lines
 THE LOCATION OF LINES IS APPROXIMATE AND THE AS-BUILT LOCATIONS IN THE FIELD MAY BE DIFFERENT.



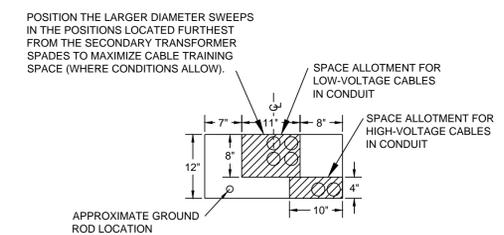
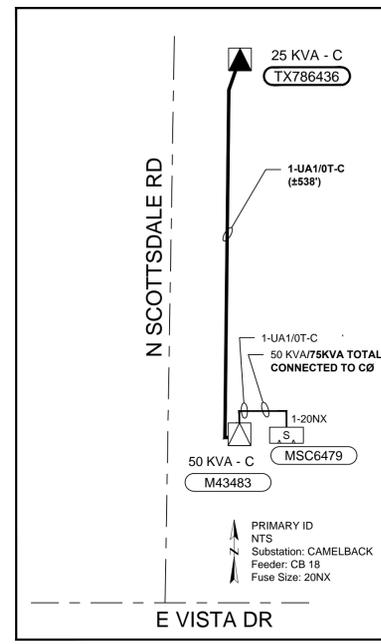
T	02.0N	R	04.0E	Sec	14	SW	1/4	MAP#	19-45
CONTACT: PAUL WEDRA									
PHONE: 602-371-7047 PGR/MOBILE: 602-316-6717									
INSPECTOR: GEORGE MOLINA									
PHONE: NA PGR/MOBILE: 602-809-3586									
NO.	DATE	DESCRIPTION						BY	
		AT&T-PHX01_010							
N SCOTTSDALE RD & E CHAPARRAL RD									
WO#:	WA444969	DATE: 08/03/2018							
BY:	C. PETERS-TRC	SCALE: 1:40							
FILENAME:	WA444969.DWG	SHEET 1 OF 1							

Contact Arizona 811 at least two full working days before you begin excavation

Call 811 or click Arizona811.com

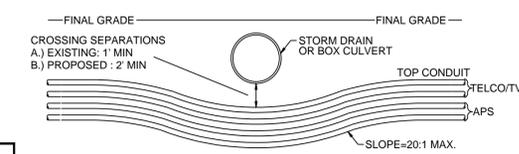
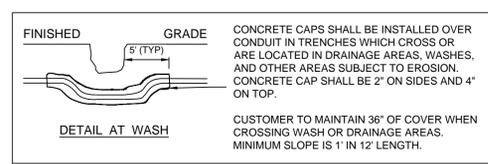
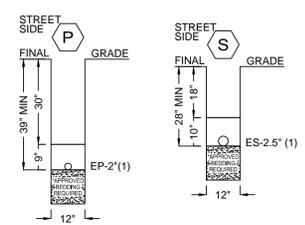


TX786436
 DETAIL SCALE= 1"=10'



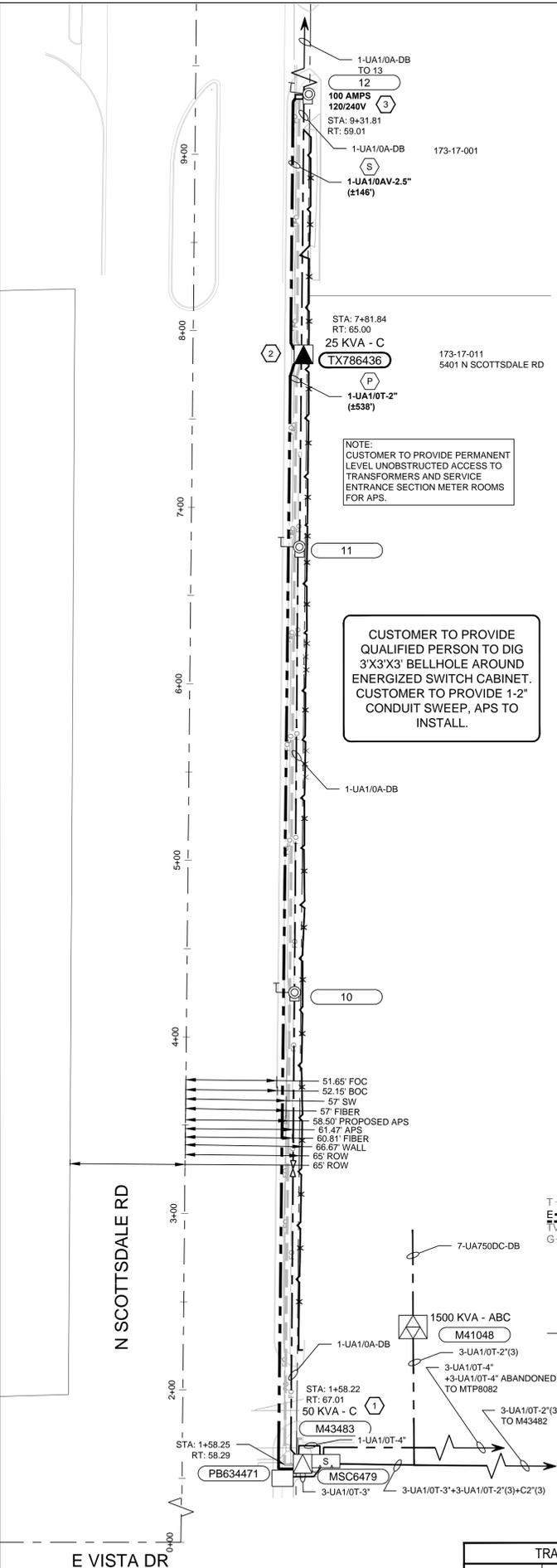
TRANSFORMER PAD WINDOW
 STRADDLING PROPERTY LINE AND TRENCH
 APS TRANSFORMER AND COMMUNICATIONS
 PEDESTAL PLACEMENT DETAIL
 N.T.S.

- CONSTRUCTION NOTES:**
- REMOVE**
2895.Z18
 - INSTALL**
7525.B0311 25 KVA 7,200V (120/240V) END-OF LINE FACE WEST
8881.EQV (APS TO PROVIDE, CUSTOMER TO INSTALL)
8881.DQ (APS TO PROVIDE, CUSTOMER TO INSTALL)
7922 (APS TO PROVIDE, CUSTOMER TO INSTALL)
2701.BV
 - INSTALL**
2702.V
9020.A (100A, 120/240V, 1Ø, 3W)
8881.EQV (APS TO PROVIDE, CUSTOMER TO INSTALL)



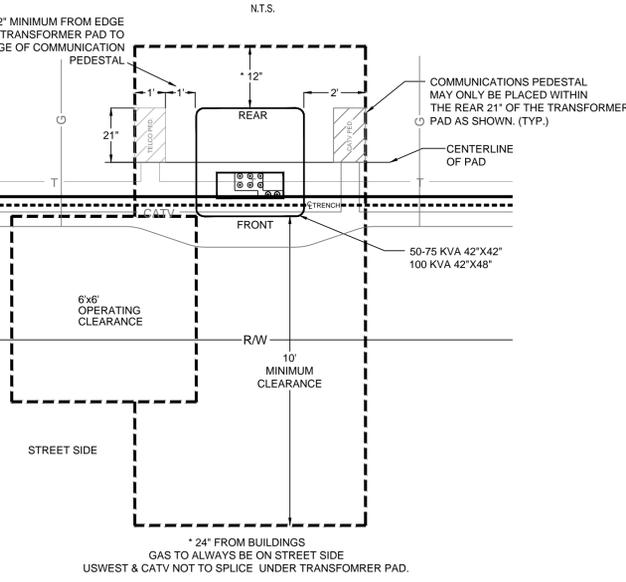
ELECTRICAL CONDUIT CLEARANCES
 UNDER STORM DRAIN OR BOX CULVERT
 N.T.S.

TRANSFORMER ORDER (OVERHEAD OR UNDERGROUND SINGLE PHASE TRANSFORMER)						
OPERATING NO.	KVA	INST/REM	PHASING	EQUIPMENT NO.	SERIAL NO.	ADDRESS
TX786436	25	INS	C			5401 N SCOTTSDALE RD

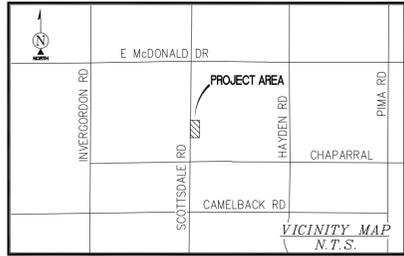


NOTE:
 CUSTOMER TO PROVIDE PERMANENT LEVEL UNOBSTRUCTED ACCESS TO TRANSFORMERS AND SERVICE ENTRANCE SECTION METER ROOMS FOR APS.

CUSTOMER TO PROVIDE QUALIFIED PERSON TO DIG 3'X3'X3' BELLHOLE AROUND ENERGIZED SWITCH CABINET. CUSTOMER TO PROVIDE 1-2" CONDUIT SWEEP, APS TO INSTALL.



TRANSFORMER ORDER (OVERHEAD OR UNDERGROUND SINGLE PHASE TRANSFORMER)						
OPERATING NO.	KVA	INST/REM	PHASING	EQUIPMENT NO.	SERIAL NO.	ADDRESS
TX786436	25	INS	C			5401 N SCOTTSDALE RD



SURVEY DATE
01/06/2018

BASIS OF BEARING
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE CENTRAL ZONE, DETERMINED BY GPS OBSERVATIONS.

FLOOD ZONE
THIS PROJECT APPEARS TO BE LOCATED WITHIN FLOOD ZONE "X", ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP(S), MAP ID #04013C1770L, DATED 10/16/2013

SURVEYOR'S NOTES
SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED.

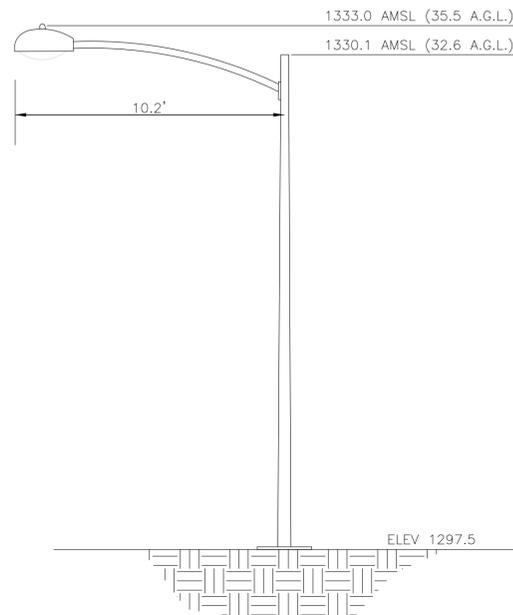
THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES.

BENCHMARK
PROJECT ELEVATIONS ESTABLISHED FROM GPS DERIVED ORTHOMETRIC HEIGHTS BY APPLICATION OF NGS 'GEOID 12B' MODELED SEPARATIONS TO ELLIPSOID HEIGHTS DETERMINED BY SINGLE BASELINE OBSERVATIONS FROM ARIZONA HEIGHT MODERNIZATION PROJECT CORS AZGS. ALL ELEVATIONS SHOWN HEREON ARE REFERENCED TO NAVD88.

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS ARE DEFINITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT BLUE STAKE AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/ OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

LESSOR'S LEGAL DESCRIPTION
SCOTTSDALE ROAD RIGHT OF WAY

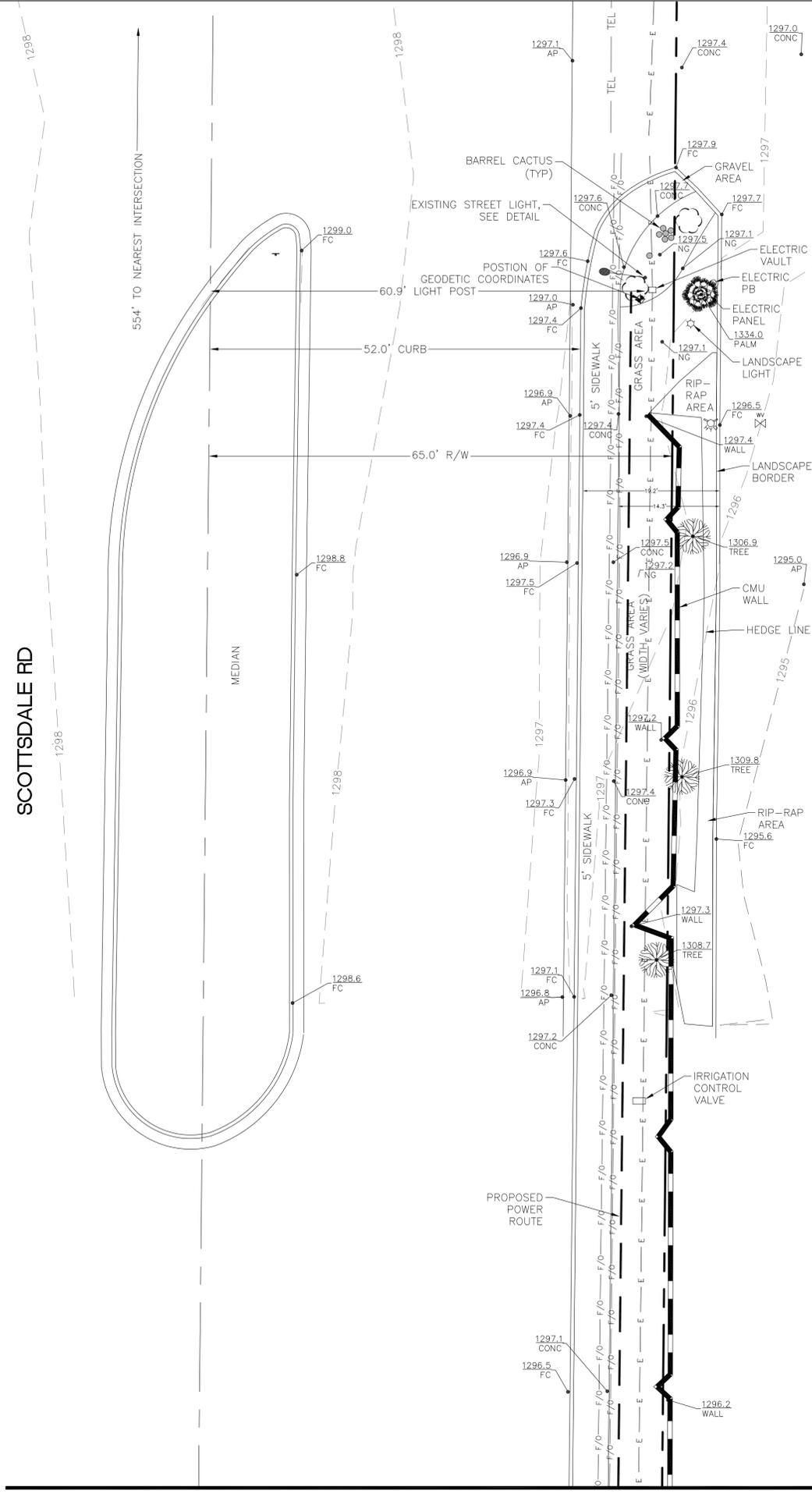
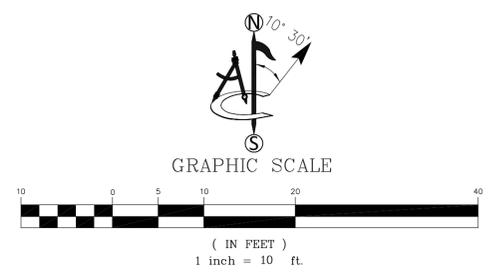


EXISTING STREET LIGHT DETAIL N.T.S.

(SEE SHEET S1 AND A-3 FOR THE PROPOSED STREETLIGHT DETAIL AND ELEVATIONS)

LEGEND			
AP	ASPHALT	—●—	STREET LIGHT
CONC	EDGE OF CONCRETE	○xxxx	UTILITY MANHOLES
FC	FACE OF CURB	☆	LIGHT POLE
LP	LIGHT POLE	⊙	POSITION OF GEODETTIC COORDINATES
NG	NATURAL GRADE	⊙	SPOT ELEVATION
R/W	RIGHT OF WAY	⊙	POWER POLE SIGN
WIF	WROUGHT IRON FENCE	—●—	
⊙	TREES		
⊙	PINE TREES		
—E—	ELECTRIC LINES		
—TEL—	TELEPHONE LINES		
—F/O—	FIBER OPTIC LINES		
—GAS—	GAS LINES		
—SS—	SEWER LINES		
—W—	WATER LINES		
—	CURBLINES		
—	CONCRETE LIMITS		
—	STREET CENTERLINES		
—	RIGHT OF WAY LINES		
—	MAJOR CONTOUR INTERVAL		
—	MINOR CONTOUR INTERVAL		

POSITION OF GEODETTIC COORDINATES
LATITUDE 33° 30' 55.15" (33.515319°) NORTH (NAD83)
LONGITUDE 111° 55' 32.95" (111.925819°) WEST(NAD83)
GROUND ELEVATION @ 1297.5' (NAVD88)



PHX01_010

5401 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85250

MARICOPA COUNTY

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/18/18	RG	PRELIMINARY	NS
1	06/06/18	CK	BORING ROUTE	MF
2	06/12/20	NS	COMMENTS	NS

410 E. SOUTHERN AVE.
TEMPE, ARIZONA 85282
PH. (480) 659-4072
www.ambitconsulting.us

Sarah Burgi

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED LAND SURVEYOR, TO ALTER THIS DOCUMENT.

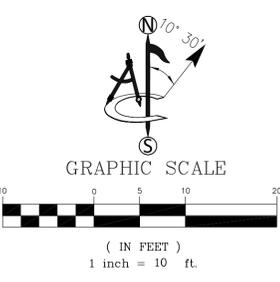
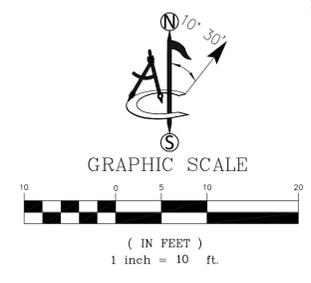
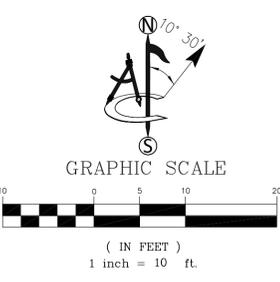
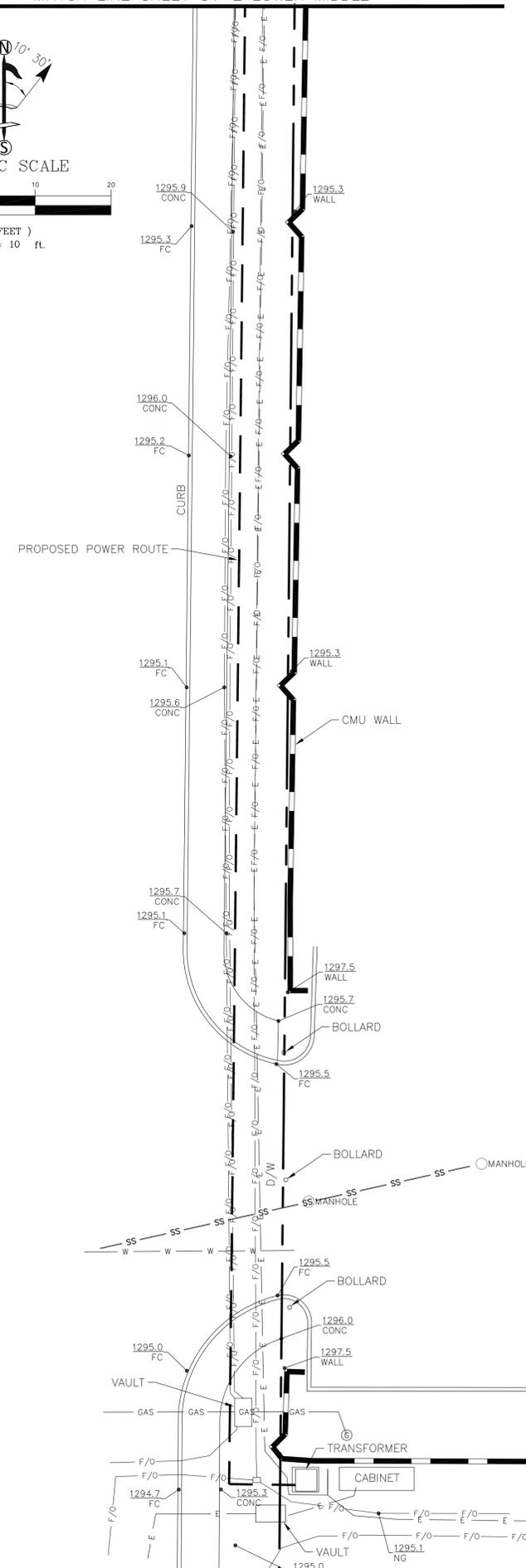
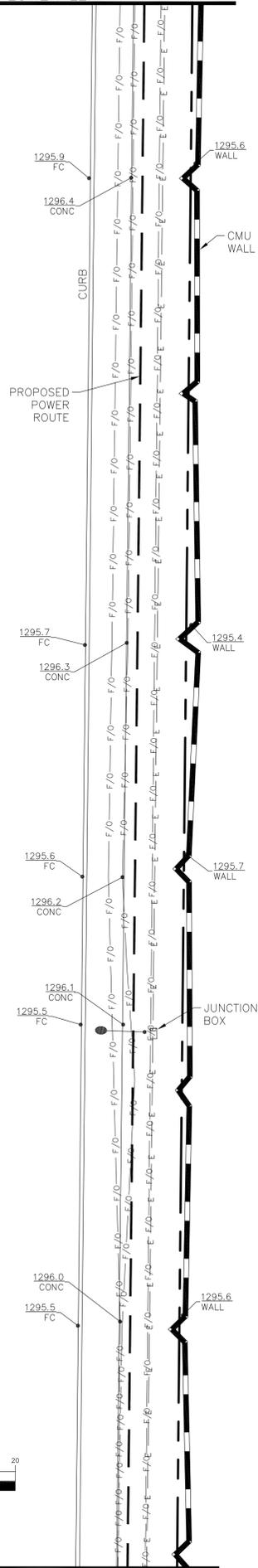
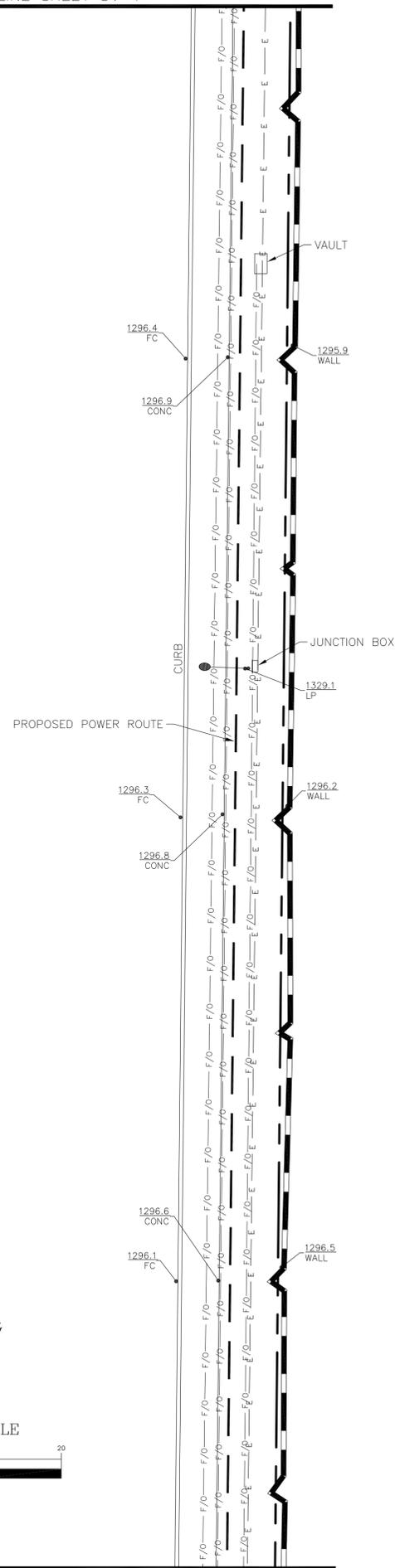
SHEET NUMBER: **SV-1** REVISION: **2**

MATCH LINE SHEET SV-2 LEFT TOP

SCOTTSDALE RD

SCOTTSDALE RD

SCOTTSDALE RD



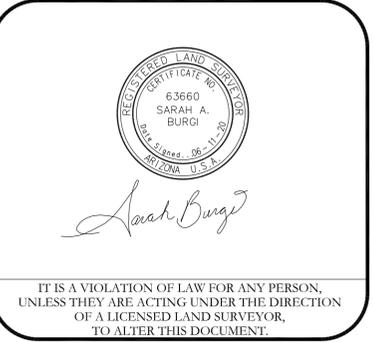
PHX01_010

5401 N. SCOTTSDALE RD
SCOTTSDALE, AZ 85250

MARICOPA COUNTY

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION	DES./QA
0	01/18/18	RG	PRELIMINARY	NS
1	06/06/18	CK	BORING ROUTE	MF
2	06/12/20	NS	COMMENTS	NS



SHEET NUMBER: SV-2 REVISION: 2