Project Submittal Narrative

AT&T Small Cell Wireless Facility Proposal: PHX01_008_A

Submitted By:

Mike O'Grady - Smartlink LLC

8502 E Via De Ventura, Suite 220, Scottsdale, Arizona 85258

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 (pictured above) is situated in the Paradise Valley owned right-of-way along Scottsdale Road, west 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 blend with 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.

Proposed Modification:

The proposed SWF installation will involve replacing the existing street light standard with a new 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 a 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. All signs on the existing pole will be transferred to the new pole and mounted at the same height.

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 owner light poles in the area.

Zoning & Land Uses:

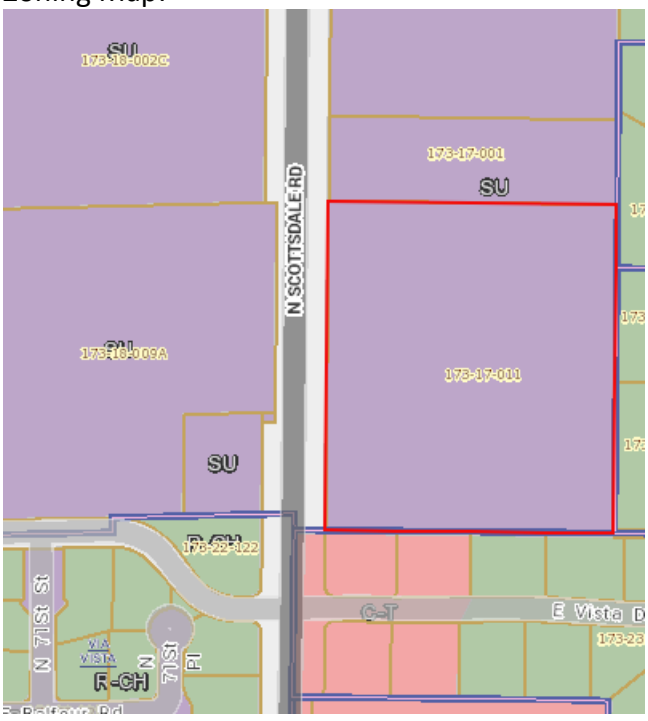
APN: 173-17-011 (adjacent, in red below)

Zoning District of subject parcel: N/A; ROW

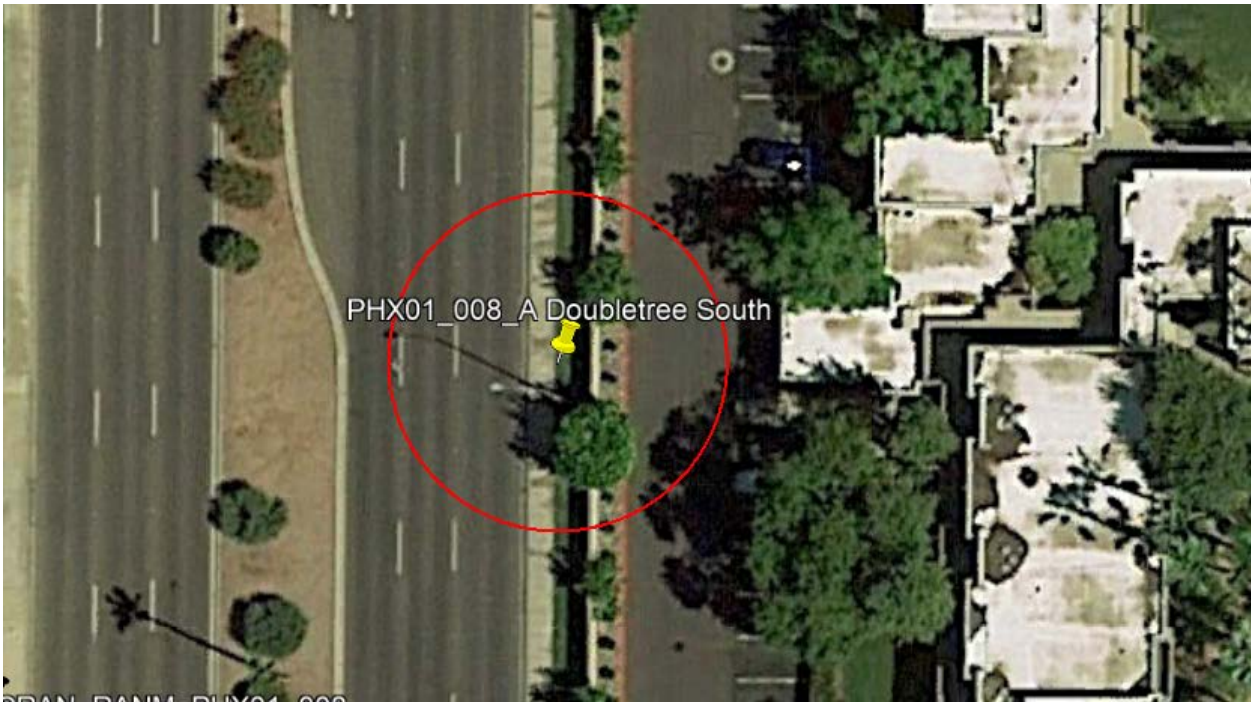
Surrounding Zoning Districts:

- East: SUP-R
- West: SUP-0
- North: SUP-R
- South: S-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®
Charles Industries, Ltd. www.charlesindustries.com

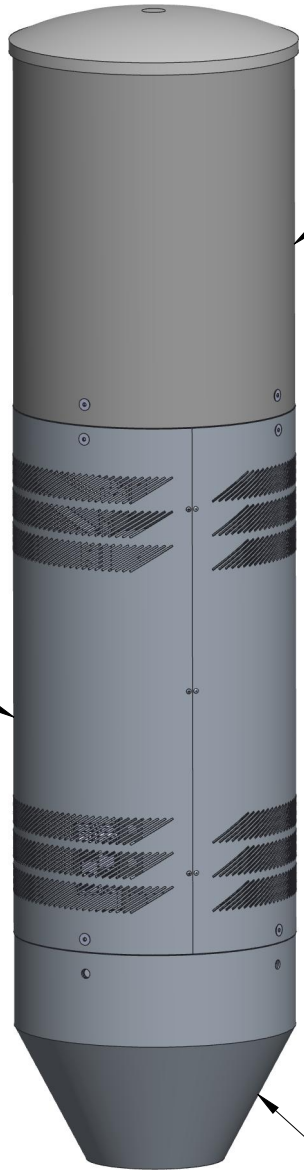
SIZE	DRAWING NO.	ISS.
A	CI POLE-TOP NODE	SJR
		REV. A

SCALE	CAD FILE NAME	SHEET
.060	CI_POLE_TOP	1 of 5

REV 07-28-99

COMPUTER GENERATED DRAWING

DO NOT SCALE DRAWING



Charles Industries, Ltd. www.charlesindustries.com

SIZE	DRAWING NO.	ISS.
A	CI POLE-TOP NODE	SJR
		REV. A

SCALE	CAD FILE NAME	SHEET
.080	CI_POLE_TOP	2 of 5

REV 07-28-99

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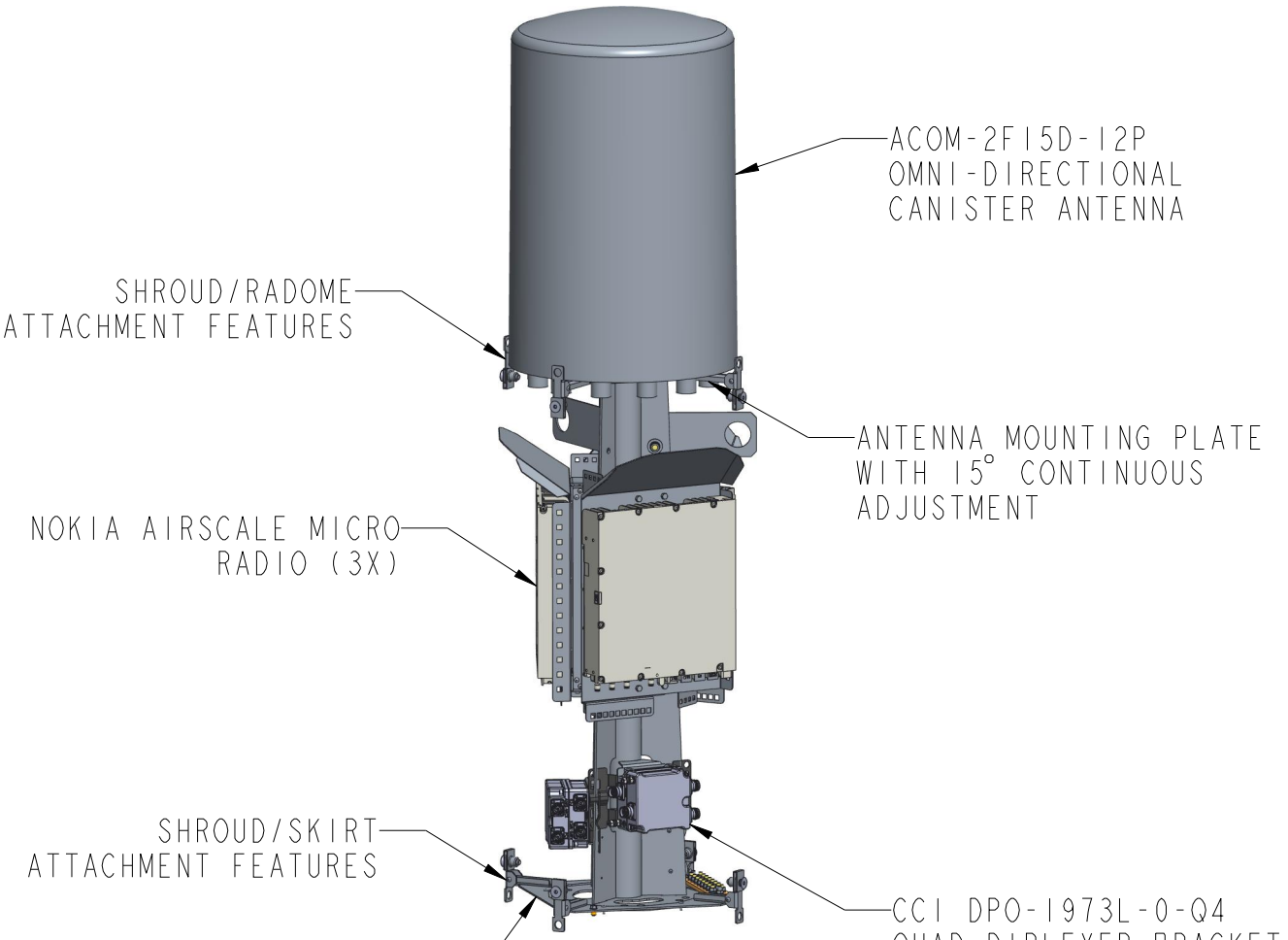

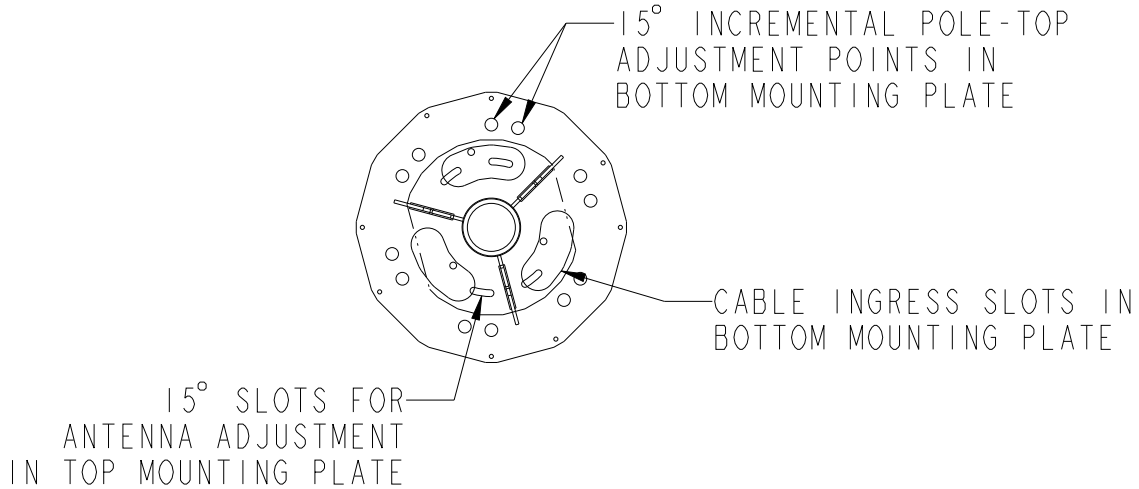

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SIZE	DRAWING NO.	ISS.
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.080	CI_POLE_TOP	3 of 5

REV 07-28-99

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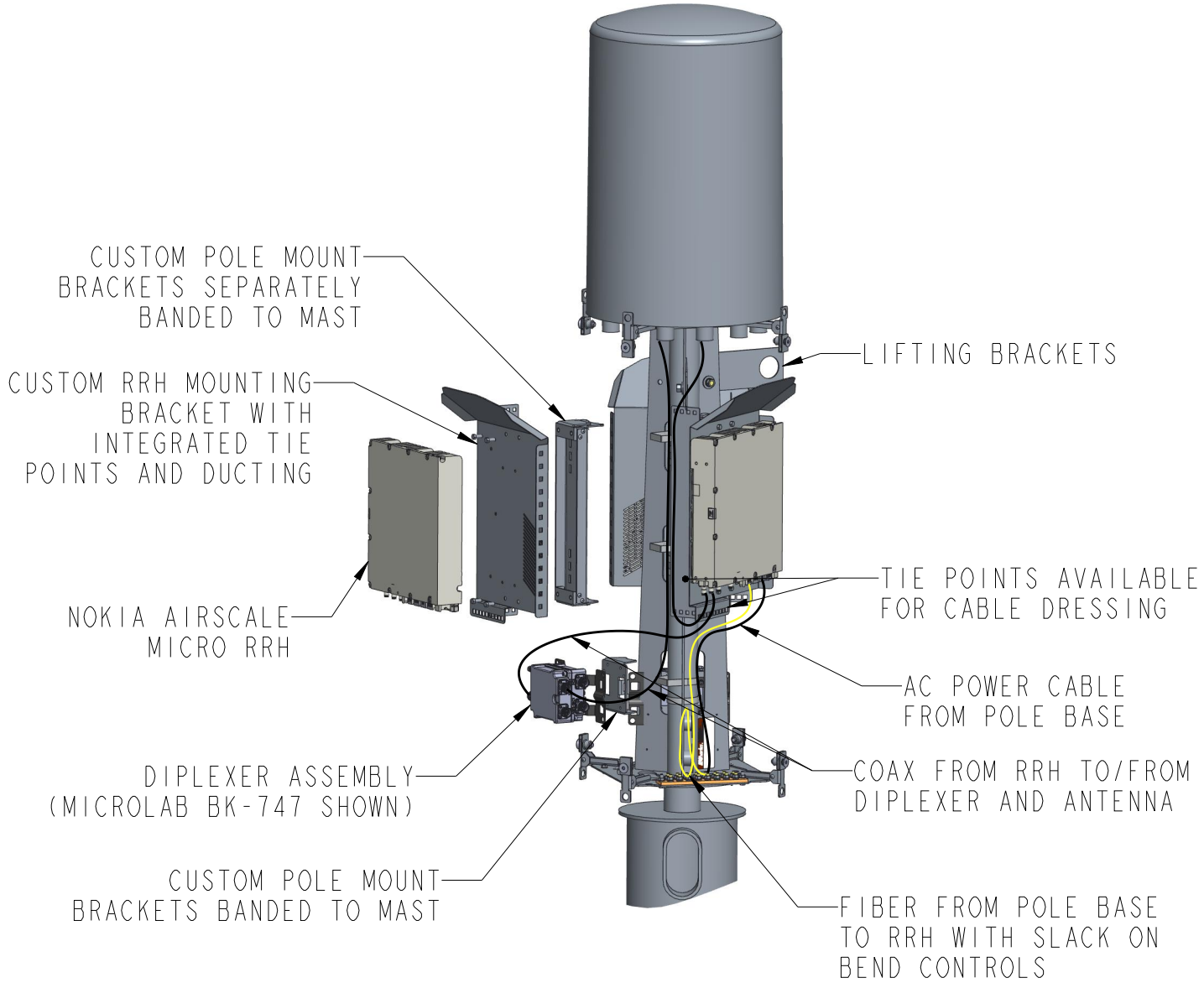

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SIZE	DRAWING NO.	ISS.
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		REV. A
SCALE .080	CAD FILE NAME CI_POLE_TOP	SHEET 4 of 5

REV 07-28-99

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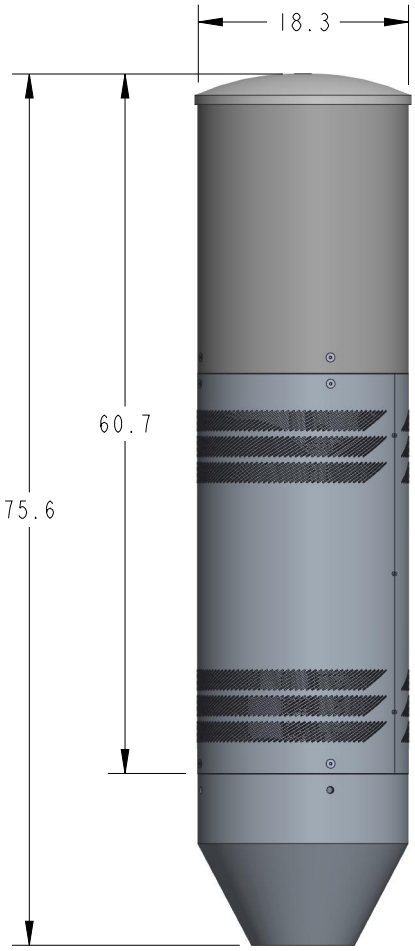

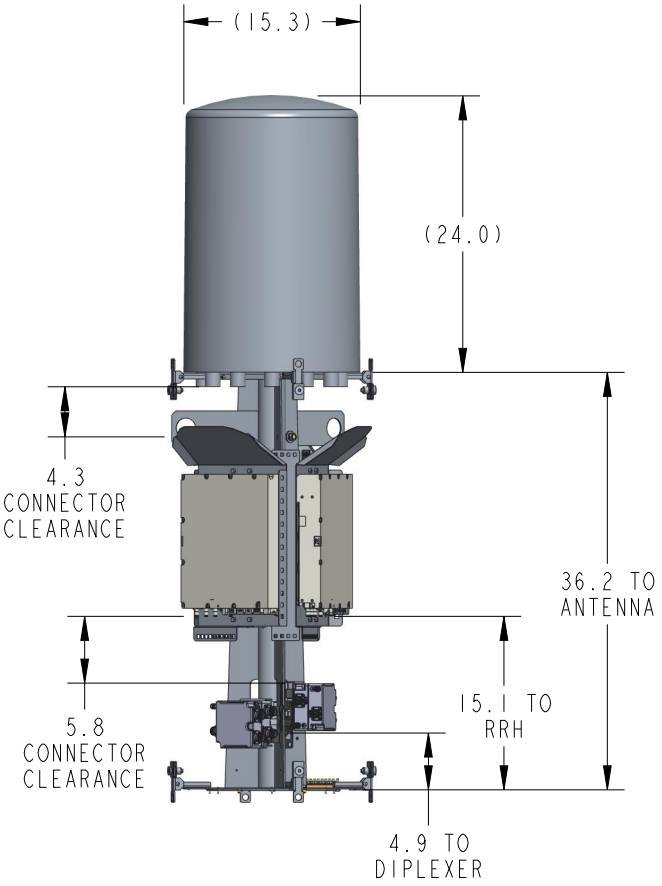

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SIZE	DRAWING NO.	ISS.
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		REV. A

SCALE	CAD FILE NAME	SHEET
.060	CI_POLE_TOP	5 of 5

REV 07-28-99

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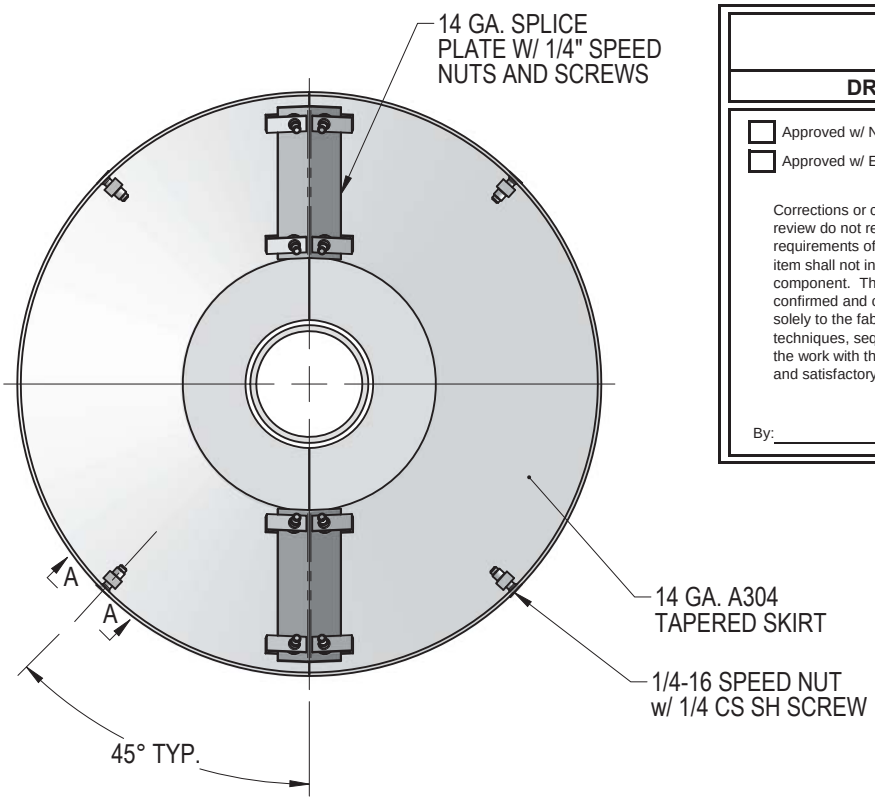


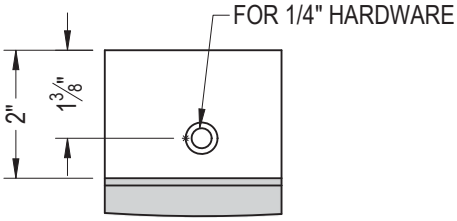
PLAN VIEW

DRAWING SUBMITTAL REVIEW

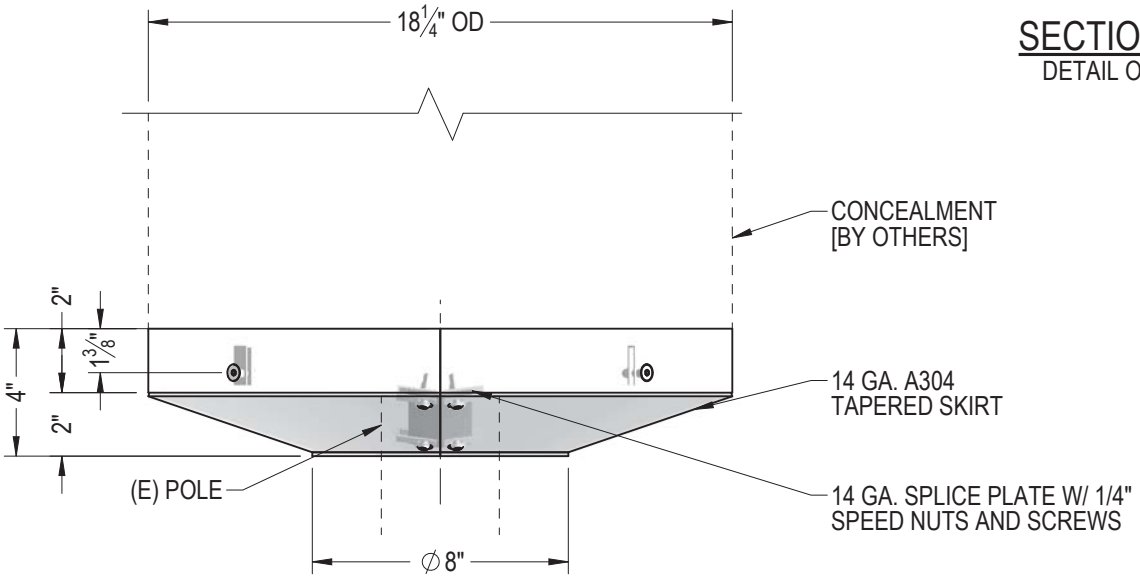
- ☐ Approved w/ No Exceptions
- ☐ Approved w/ Exceptions Noted
- ☐ Revise and Resubmit
- ☐ Rejected. See Remarks

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. Reivew 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 contruction; coordination of the work with that of all other trades and performing all work in a safe and satisfactory manner.

By: _____ Date: _____



SECTION A-A
DETAIL OF TAB



ELEVATION VIEW

REVISIONS

REV.	DESCRIPTION	DATE	DRW	CHK

MANUFACTURER

TITLE

4" TAPERED SKIRT Charles Industries

PROJECT NUMBER	SHEET	DRAWING NUMBER
STD.	S-1	

ACOM-2F15D-12P-R2,- 12-Port, Quasi-omni Outdoor Canister Antennas

Ace Omnidirectional SmallCell Antennas

- *Quasi-omni radiation patterns for smallcells*
- *12-Port, Quasi-omni Outdoor Canister Antennas*
- *Multiband, 12 port Fixed Antenna*

698 - 894	1695 - 2400	3550 - 3700	5150 - 5925
2 ports	4 ports	4 ports	2 ports
±45º	±45º	±45º	±45º
360º	360º	360º	360º
39º	20º	27º	24º

ELECTRICAL SPECIFICATIONS				
Frequency Range [MHz]	698-894	1695-2400	3550-3700	5150-5925
Gain, maximum [dBi]	4.5	9.0	6.0	5.5
Azimuth Beamwidth [º]	360º (Quasi-Omni)			
Elevation Beamwidth [º]	39º	20º	27º	24º
Electrical Downtilt [º]	0º (fixed)			
Polarization [º]	±45			
Impedance [Ω]	50			
VSWR	< 1.6:1			
Cross Polar Isolation [dB]	> 20			
Passive Intermodulation [2x43 dBm Carrier, dBc]	< -153	< -153	-	
Light protection	DC Ground			
Maximum Effective Power Per Port [W]	50			

MECHANICAL SPECIFICATIONS	
Antenna Dimensions: Length, Diameter [mm]	610 x 381 (24.0'' x 15.0")
Weight (lbs/kg)	33.07 lbs / 15.0 kg
Connector Type	4.3-10 type Fmale
Connector Quantity	12
Wind load, Calculation (mph)	93.2
Windload, Frontal [N]	175.3 (34.5 lbf)
Windload, Lateral [N]	175.3 (34.5 lbf)
Maximum Wind Speed [km/h]	241 (150 mph)
Radome Material	Fiberglass, UV resistance
Radome Color	Light gray

Revised: 01/12/18_5GHz EIRP Adjusted

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E-mail : webmaster@acetech.co.kr
Web Site : www.acetech.co.kr

Ace Technologies Corp.

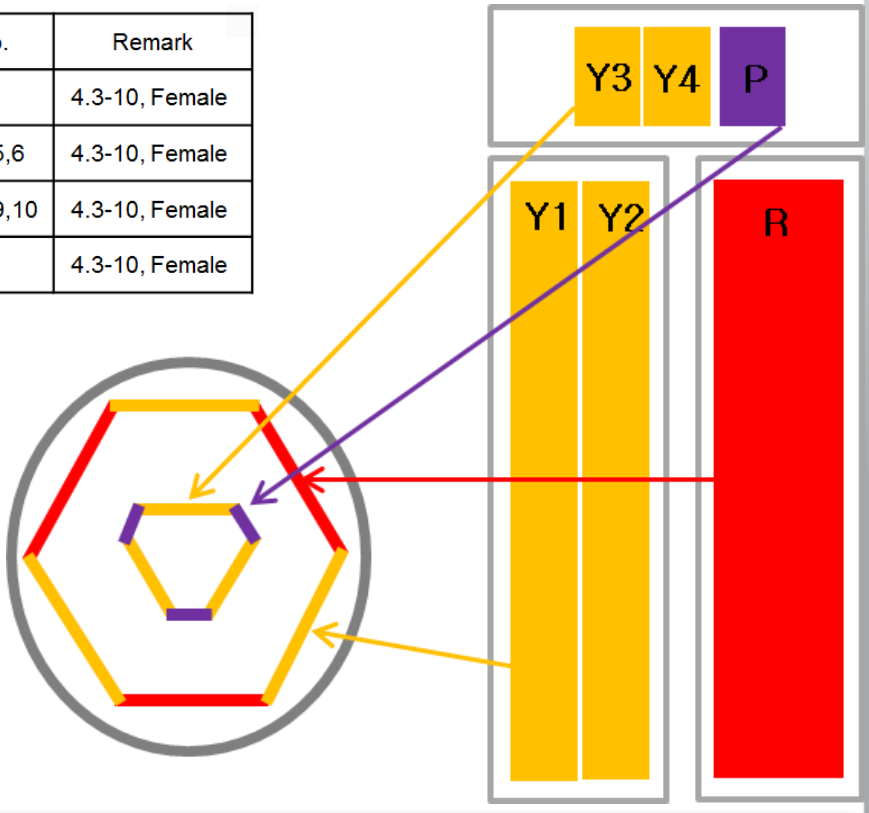
ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

LAYOUT OF INTERFACE (BOTTOM VIEW)

ANTENNA LAYOUT

CORRELATION TABLE

Color code	Column	Frequency	Connector No.	Remark
	R1	698~894 MHz	R1 : 1,2	4.3-10, Female
	Y1, Y2	1695~2400 MHz	Y1 : 3,4 / Y2 : 5,6	4.3-10, Female
	Y3, Y4	3550~3700 MHz	Y3 : 7,8 / Y4 : 9,10	4.3-10, Female
	P1	5150~5925 MHz	P1 : 11,12	4.3-10, Female



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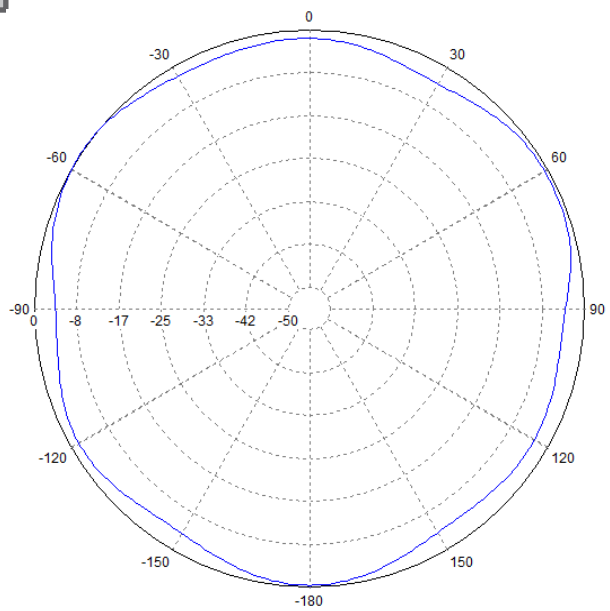
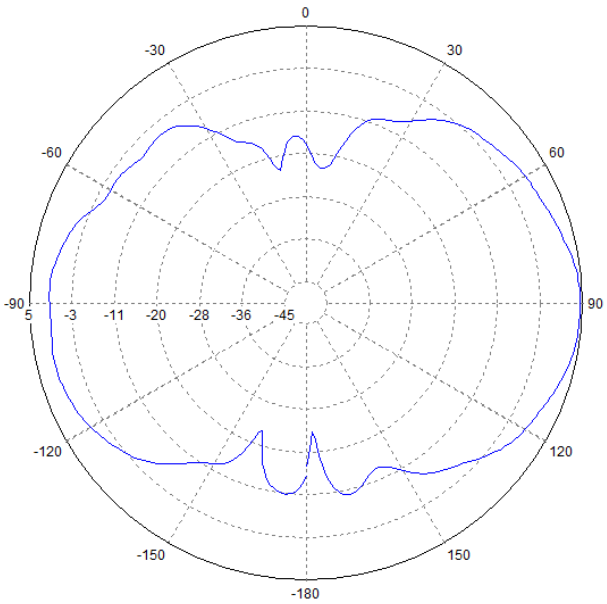
Ace Technologies Corp.

ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

800 M

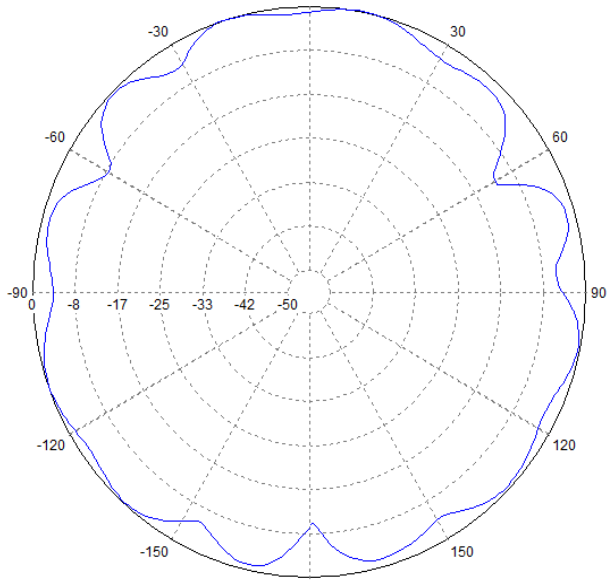


Horizontal pattern

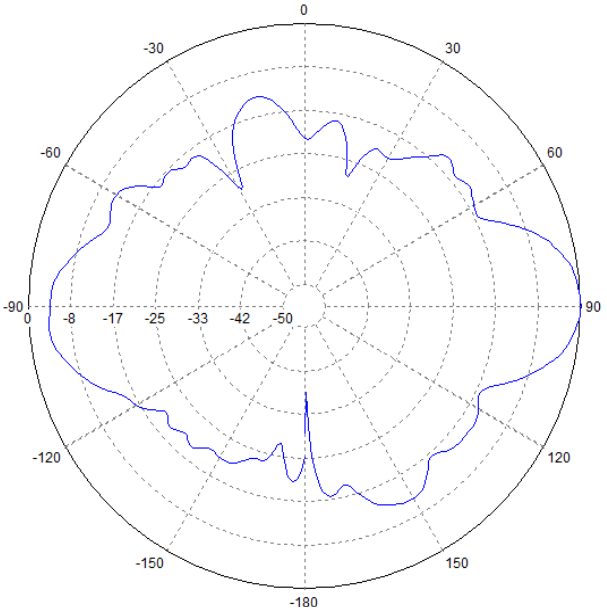


Vertical pattern

2000 M



Horizontal pattern



Vertical pattern

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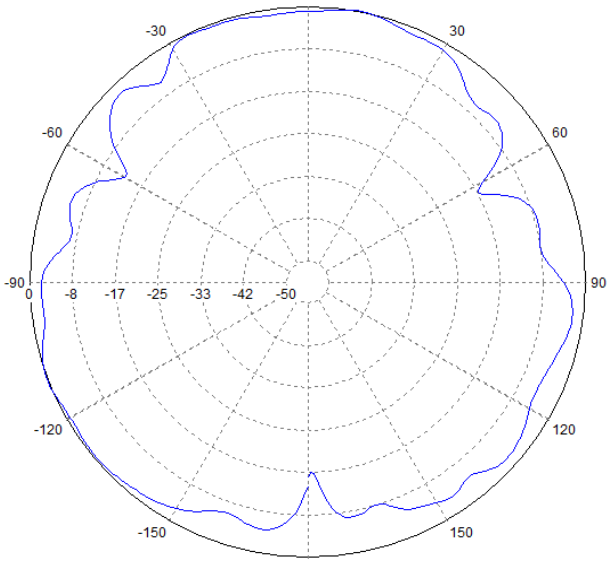
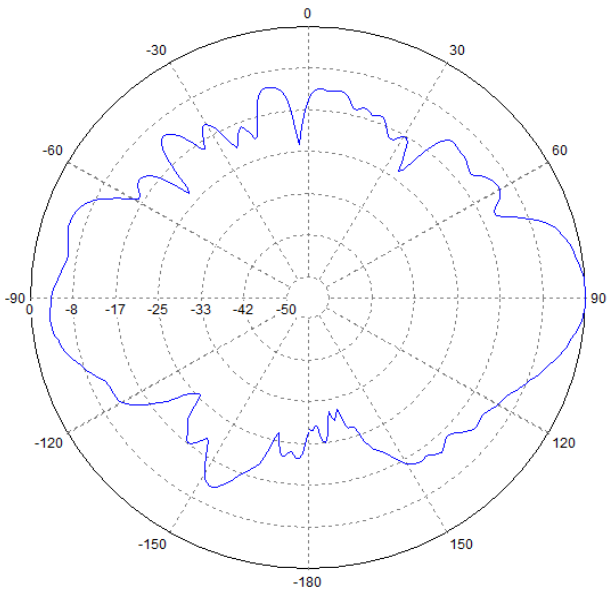
ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

3500 M

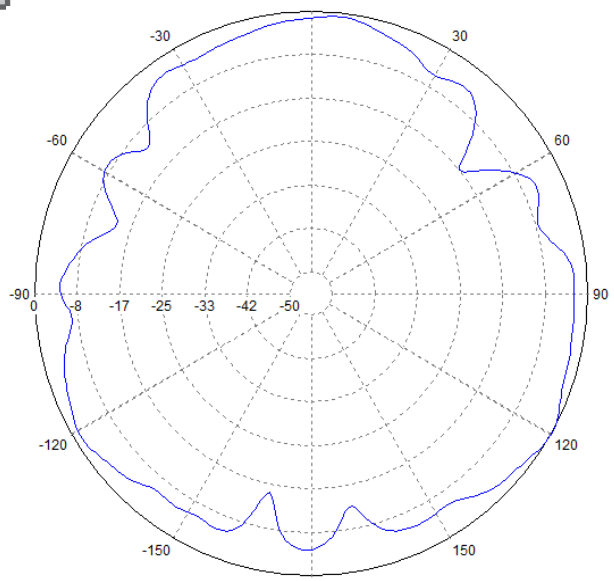


Horizontal pattern

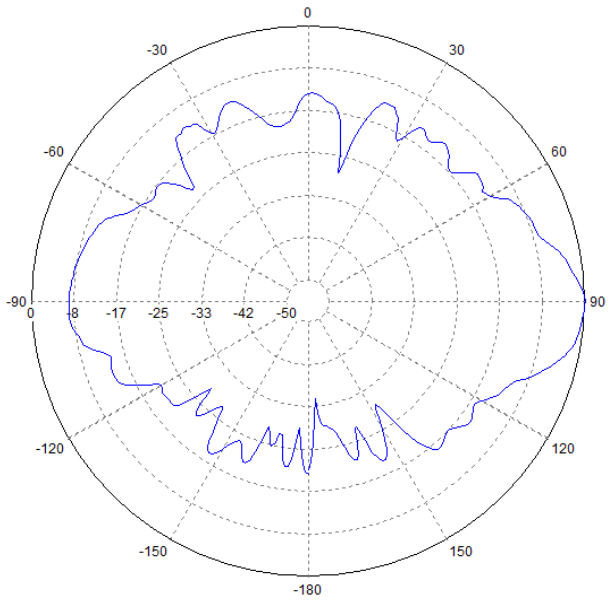


Vertical pattern

5500 M



Horizontal pattern



Vertical pattern

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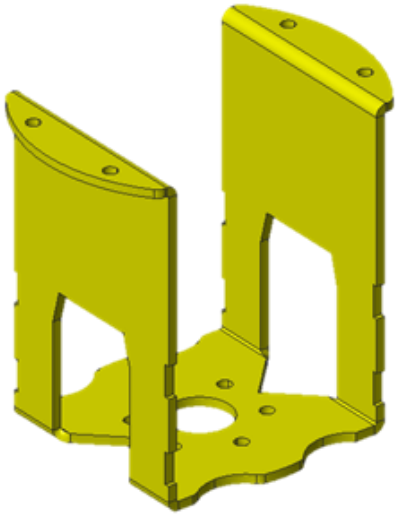
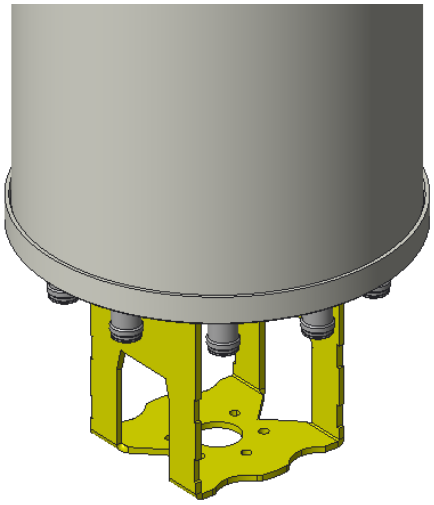
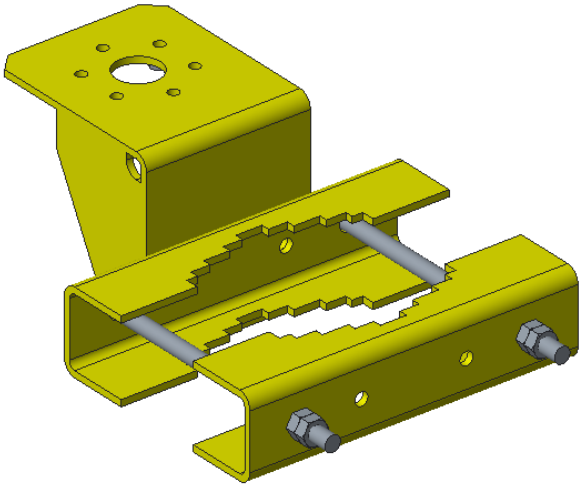
ACOM-2F15D-12P-R2, 12-Port, Quasi-omni Outdoor Canister Antennas

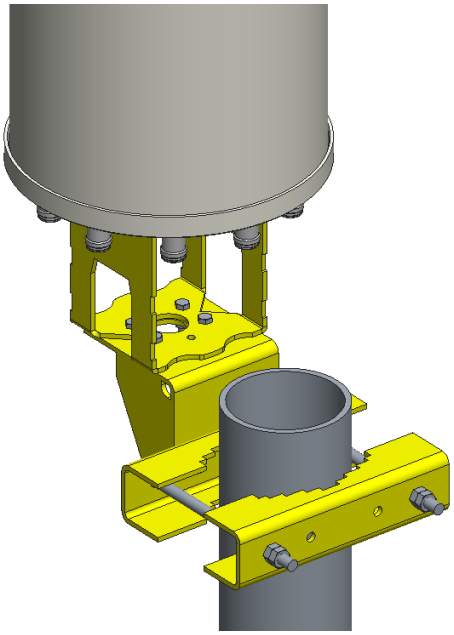
Top of Pole Mounting [Type No. ACOM-MK-TOP]
(Bundle)





Offset of Pole Mounting Option [Type No. ACOM-MK-SIDE]
(Option)





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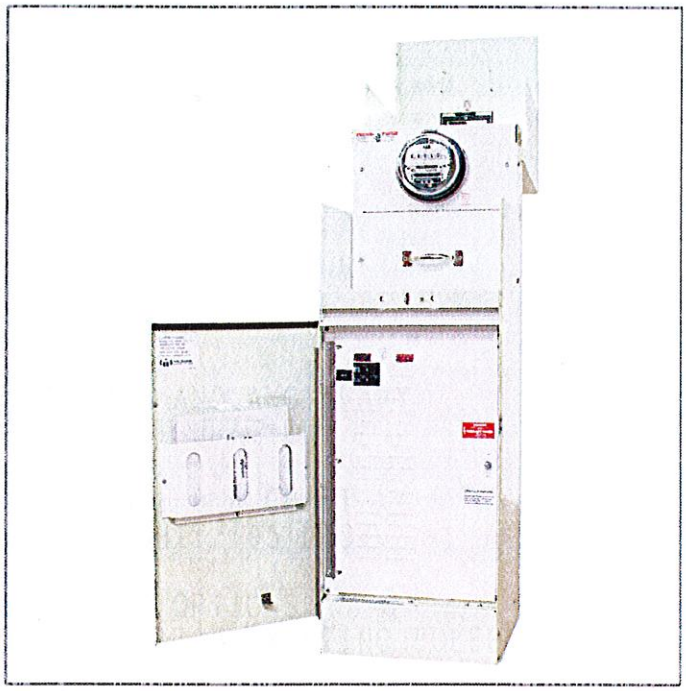
Web Site : www.acetech.co.kr

MILBANK
ENERGY AT WORK

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.

PROJECT TEAM

CLIENT REPRESENTATIVE

COMPANY:	SMARTLINK, LLC
ADDRESS:	8502 E VIA DE VENTURA, SUITE 220
CITY, STATE, ZIP:	SCOTTSDALE, AZ 85258
CONTACT:	BRAD LOWE
PHONE:	(480) 878-4881 EXT. 6106
E-MAIL:	BRAD.LOWE@SMARTLINKLLC.COM

PROJECT OWNER

COMPANY:	AT&T
ADDRESS:	1355 WEST UNIVERSITY DRIVE
CITY, STATE, ZIP:	MESA, AZ 85201-5419
CONTACT:	SHAH KHALID
PHONE:	(480) 444-4689
E-MAIL:	SHAH.KHALID@ATT.COM

PROFESSIONAL OF RECORD

COMPANY:	STATE 48 DEVELOPMENT CONSULTING
ADDRESS:	8687 E. VIA DE VENTURA STE 115
CITY, STATE, ZIP:	SCOTTSDALE, AZ 85258
CONTACT:	DARIO MENDOZA
PHONE:	(480) 242-2477
E-MAIL:	DARIO@STATE48CONSULTING.COM

SURVEYOR

COMPANY:	AMBIT CONSULTING
ADDRESS:	410 E. SOUTHERN AVE
CITY, STATE, ZIP:	TEMPE, AZ 85282
CONTACT:	MATT FORD
PHONE:	(480) 659-4072

PROPERTY OWNER

COMPANY:	TWON OF PARADISE VALLEY RIGHT-OF-WAY
ADDRESS:	6401 E LINCOLN DR PARADISE VALLEY, AZ 85253
CITY:	TOWN OF PARADISE VALLEY
PHONE:	(480) 348-3695

POWER COMPANY:

NAME:	APS
PHONE:	(602) 371-7171

GENERAL NOTES

DO NOT SCALE DRAWINGS

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

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.

SITE INFORMATION

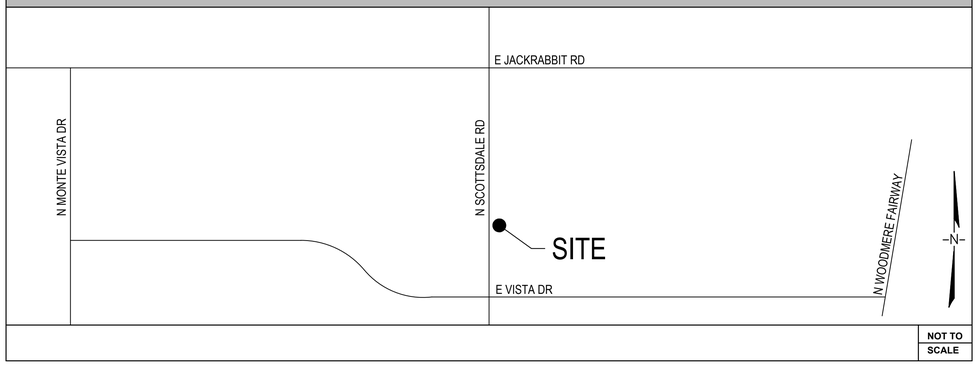
LATITUDE:	33.513944
LONGITUDE:	-111.925836
LAT./LONG. TYPE:	NAD 83
APN #:	ROW ADJACENT TO PARCEL NO. 173-17-011
CURRENT ZONING:	ROW
ZONING/JURISDICTION:	TOWN OF PARADISE VALLEY
COUNTY:	MARICOPA COUNTY

PROJECT DESCRIPTION

THIS PROJECT WILL BE COMPRISED OF:
-PICO EQUIPMENT DESIGN
-REPLACEMENT OF EXISTING STREET LIGHT POLE WITH NEW LIGHT POLE
-INSTALLATION OF (1) METER PEDESTAL
-INSTALLATION OF (1) NEW ANTENNA MOUNTED TOP OF REPLACEMENT STREET LIGHT POLE IN CONCEALMENT HOUSING
-INSTALLATION OF (3) RRH UNITS IN CONCEALMENT HOUSING ON REPLACEMENT STREET LIGHT POLE (BELOW ANTENNA)
- INSTALLATION OF (1) NEW FIBER MEET VAULT
-RELOCATE EXISTING SIGNAGE
-INSTALLATION OF (1) NEW 12"X17" ELECTRICAL PULL BOX

AT&T SITE ID: CRAN_RANM: PHX01_008_A
LAT/LOG: 33.513944, -111.925836
CROSS STREETS: N SCOTTSDALE RD & E VISTA DR
LIGHT POLE ADDRESS: 5401 N SCOTTSDALE RD SCOTTSDALE, AZ 85250
SERVICES ADDRESS: 5303 N SCOTTSDALE RD SCOTTSDALE, AZ 85250
POLE NUMBER: 10
UTILITY JOB #: WA433461

VICINITY MAP



SITE PHOTO

DRIVING DIRECTIONS

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

HEAD EAST TOWARD W UNIVERSITY DR. TURN LEFT TOWARD W UNIVERSITY DR. TURN LEFT ONTO W UNIVERSITY DR. TURN RIGHT ONTO N PRICE RD. USE THE MIDDLE 2 LANES TO TAKE THE RAMP ONTO AZ-101 LOOP N. TAKE EXIT 46 FOR CHAPARRAL RD. USE THE LEFT 2 LANES TO TURN LEFT ONTO E CHAPARRAL RD. TURN RIGHT ONTO N SCOTTSDALE RD. ARRIVE AT SITE ON RIGHT HAND SIDE(EAST).

CODE COMPLIANCE

BUILDING CODE:	INTERNATIONAL BUILDING CODE 2015
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE 2014
LIGHTNING PROTECTION CODE:	NFPA 780 - 2011, 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.

811 Know what's below. Call before you dig.

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

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

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL INFORMATION
T-3	EMERGENCY SHUT DOWN PROCEDURES
LS-1	SURVEY
A-0	SIGHT LINE DIAGRAM
A-1	OVERALL SITE PLAN
A-1.1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	ELEVATIONS
D-1	DETAILS - MISC. DETAILS
D-2	DETAILS - MISC. DETAILS
E-1	ELECTRICAL PANEL SCHEDULE AND ONE-LINE DIAGRAM
E-2	SITE POWER PLAN
E-2.1	SITE POWER PLAN
G-1	GROUNDING DETAILS
G-2	GROUNDING DETAILS
S-1	POLE DETAILS
S-2	POLE DETAILS
S-3	POLE DETAILS
PD-1	APS FINAL POWER DESIGN # WA433461
SV-1	BORE ROUTE SURVEY
SV-2	BORE ROUTE SURVEY

at&t
1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201

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 602-821-3567

REV.	BY	DATE	DESCRIPTION
0	AJ	10.28.19	100% CD's
1	AJ	01.31.20	CLIENT COMMENTS
2	DM	03.25.20	NOTE ADDED
3	AJ	07.27.20	CITY COMMENTS
4	AJ	08.24.20	SIGHT LINE UPDATE
5	NL	11.19.20	POLE DESIGN

CHECKED BY: DM

LINCENSURE NO:

11/19/2020

REGISTERED ARCHITECT — 40833 — NAVIN PATHANGAY — DATE SIGNED — Arizona U.S.A.

EXPIRES 6/30/2022

SITE NAME & ADDRESS:

AT&T SITE ID: CRAN_RANM: PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

SHEET TITLE:

TITLE SHEET

SHEET NO:

T-1

GENERAL NOTES:

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
   OWNER - AT&T MOBILITY
   OEM - ORIGINAL EQUIPMENT MANUFACTURE
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
5. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
6. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE CONTRACTOR.
7. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR. ROUTING OF TRENCHING SHALL BE APPROVED BY CONTRACTOR.
8. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
9. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OFF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
10. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
11. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
12. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS UNLESS OTHERWISE SPECIFIED. ALL CONCRETING WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
13. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH AISC SPECIFICATIONS.
14. CONSTRUCTION SHALL COMPLY WITH SPECIFICATION 25741-000-3SRP-AOOZ-00002, "GENERAL CONSTRUCTION SERVICES.
15. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
16. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
17. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.

GROUNDING NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS. TESTS SHALL BE PERFORMED IN ACCORDANCE WITH 25471-000-3PS-EG00-0001, DESIGN & TESTING OF FACILITY GROUNDING FOR CELL SITES.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
13. ALL TOWER GROUNDING SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ANSI/TIA 222. FOR TOWERS BEING BUILT TO REV G OF THE STANDARD, THE WIRE SIZE OF THE BURIED GROUND RING AND CONNECTIONS BETWEEN THE TOWER AND THE BURIED GROUND RING SHALL BE CHANGED FROM 2 AWG TO 2/0 AWG. IN ADDITION, THE MINIMUM LENGTH OF THE GROUND RODS SHALL BE INCREASED FROM 8 FEET TO 10 FEET.

LEGEND

PROPERTY LINE	ROAD CENTER LINE
SIGN	STREET LIGHT
GUY WIRE	XXXX UTILITY MANHOLE
TREE	LIGHT POLE
PALM TREE	POWER POLE
CMU WALLS	
WROUGHT IRON FENCE	
CURB LINES	
CONCRETE LIMITS	
EXISTING BUILDINGS	
PARKING STRIPES	
STREET CENTERLINES	
RIGHT OF WAY LINES	
ADJACENT PROPERTY LINE	
MAJOR CONTOUR INTERVAL	
MINOR CONTOUR INTERVAL	
COAX — COAX	COAX LINE
UGE	UNDERGROUND POWER
FO — FO	FIBER LINE
W — W	WATER/IRRIGATION LINE
SS — SS	SEWER LINE
GAS — GAS — GAS — GAS	GAS LINES

SVT	SIGHT VISIBILITY TRIANGLE
COR	CENTER OF RIGHT-OF-WAY
EOP	EDGE OF PAVEMENT
ROW, R/W	RIGHT-OF-WAY
LP	LIGHT POLE
BOC	BACK OF CURB
FOC/FC	FRONT OF CURB
S/W	SIDEWALK
EP/CONC	EDGE OF PAVEMENT
AP	ASPHALT
WIF	WROUGHT IRON FENCE
FV	FIBER VAULT
(E)	EXISTING
(N)	NEW
NG	NATURAL GRADE
PB	PULL BOX

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CHECKED BY:	DM

LINCENSURE NO:

11/19/2020

REGISTERED ARCHITECT — CERTIFICATE NO. — 40833 — NAVIN PATHANGAY — DATE SIGNED — Arizona U.S.A.

EXPIRES 6/30/2022

SITE NAME & ADDRESS:

AT&T SITE ID:
CRAN_RANM:
PHX01_008_A

5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

SHEET TITLE:
GENERAL INFORMATION

SHEET NO:
T-2

EMERGENCY SHUTDOWN PROCEDURES:

1. VEHICULAR ACCIDENT CAUSING DAMAGE TO POLE ONLY

- AT&T PADLOCK COMBO (1355)
- UNLATCH AND OPEN CABINET (PHOTO 2)
- TURN BREAKER LABELED "MAIN" TO THE OFF POSITION (PHOTO 3)
- CALL AT&T AT 800-638-2822, OPTION 9, THEN 3.
- REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CAGE.
- AN AT&T TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE

2. VEHICULAR ACCIDENT CAUSING DAMAGE TO EQUIPMENT CAGE
- UNLOCK AT&T PADLOCK COMBO (1355)
- UNLATCH AND OPEN CABINET (PHOTO 2)
- TURN BREAKER LABELED "MAIN" TO THE OFF POSITION (PHOTO 3)
- CALL AT&T AT 800-638-2822, OPTION 9, THEN 3.
- REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CAGE.
- AN AT&T TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.

3. VEHICULAR ACCIDENT CAUSING DAMAGE TO UTILITY METER PEDESTAL
- CALL APS (602) 371-6767 OR SRP (602) 236-8811
- REFERENCE ADDRESS/LOCATION OF IMPACTED LOCATION.
- UTILITY COMPANY WILL RELEASE A TECHNICIAN TO ASSESS THE DAMAGE.
- CALL AT&T AT 800-638-2822, OPTION 9, THEN 3.
- REFERENCE SITE NUMBER LOCATED ON THE EQUIPMENT CAGE.
- AN AT&T TECHNICIAN WILL BE DISPATCHED TO ASSESS THE DAMAGE.

PHOTO 2: CABINET LATCH

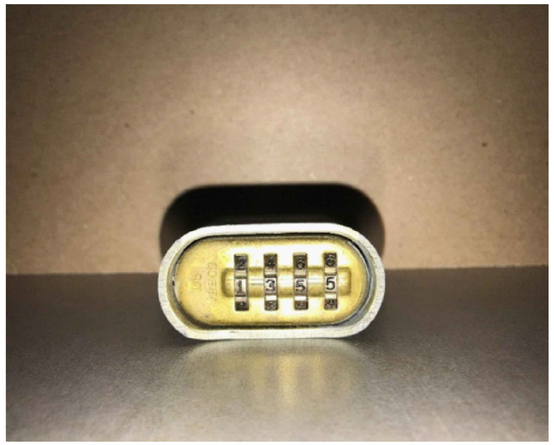

PHOTO 1: PAD-LOCK LOCATED RIGHT SIDE OF CABINET

PHOTO 3: MAIN BREAKER LOCATION

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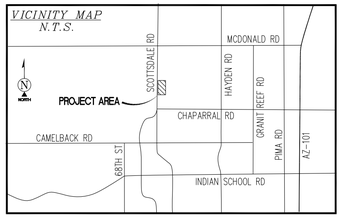
CHECKED BY: DM

LINCENSURE NO:
11/19/2020
REGISTERED ARCHITECT
CERTIFICATE NO.
#0833
NAVIN
PATHANGAY
DATE SIGNED
Arizona U.S.A.
EXPIRES 6/30/2022

SITE NAME & ADDRESS:
AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

SHEET TITLE:
EMERGENCY SHUT DOWN PROCEDURE

SHEET NO:
T-3



SURVEY DATE
01/05/2018 AND 05/17/2018

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.

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.

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

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.

NOTES:

NO CONFLICT WITH AMERICAN TELEPHONE COAX/FIBER PER BLUESTAKE
NO CONFLICT WITH CITY OF SCOTTSDALE UTILITIES PER BLUESTAKE
CITY OF SCOTTSDALE TRAFFIC NO RESPONSE PER BLUESTAKE
CITY OF SCOTTSDALE FIBER NO RESPONSE PER BLUESTAKE
NO CONFLICT WITH COX COMMUNICATIONS FIBER PER BLUESTAKE
NO CONFLICT WITH CENTURY LINK COAX/FIBER PER BLUESTAKE
ARCADIA VISTA IRRIGATION NO RESPONSE PER BLUESTAKE

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

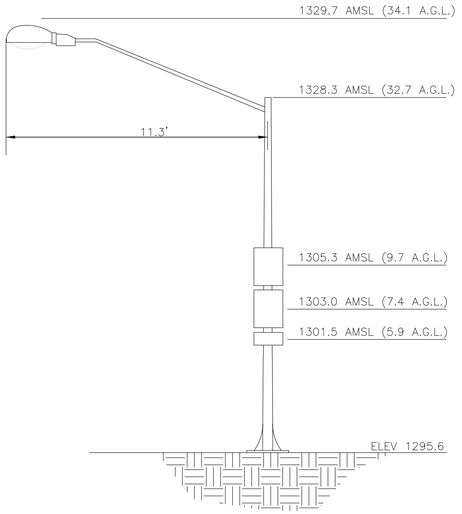
ANY RIGHT OF WAY SHOWN HEREON IS PLOTTED FROM INFORMATION PROVIDED BY OTHERS AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.

TO BE ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES.

A TITLE REPORT WAS NOT PROVIDED AT THE TIME THE SURVEY WAS PREPARED.

R.O.W. TO BE CONFIRMED BY TITLE.

LESSOR'S LEGAL DESCRIPTION
PARADISE VALLEY RIGHT OF WAY
ADJACENT TO APN: 173-17-011



STREET LIGHT DETAIL N.T.S.

LEGEND

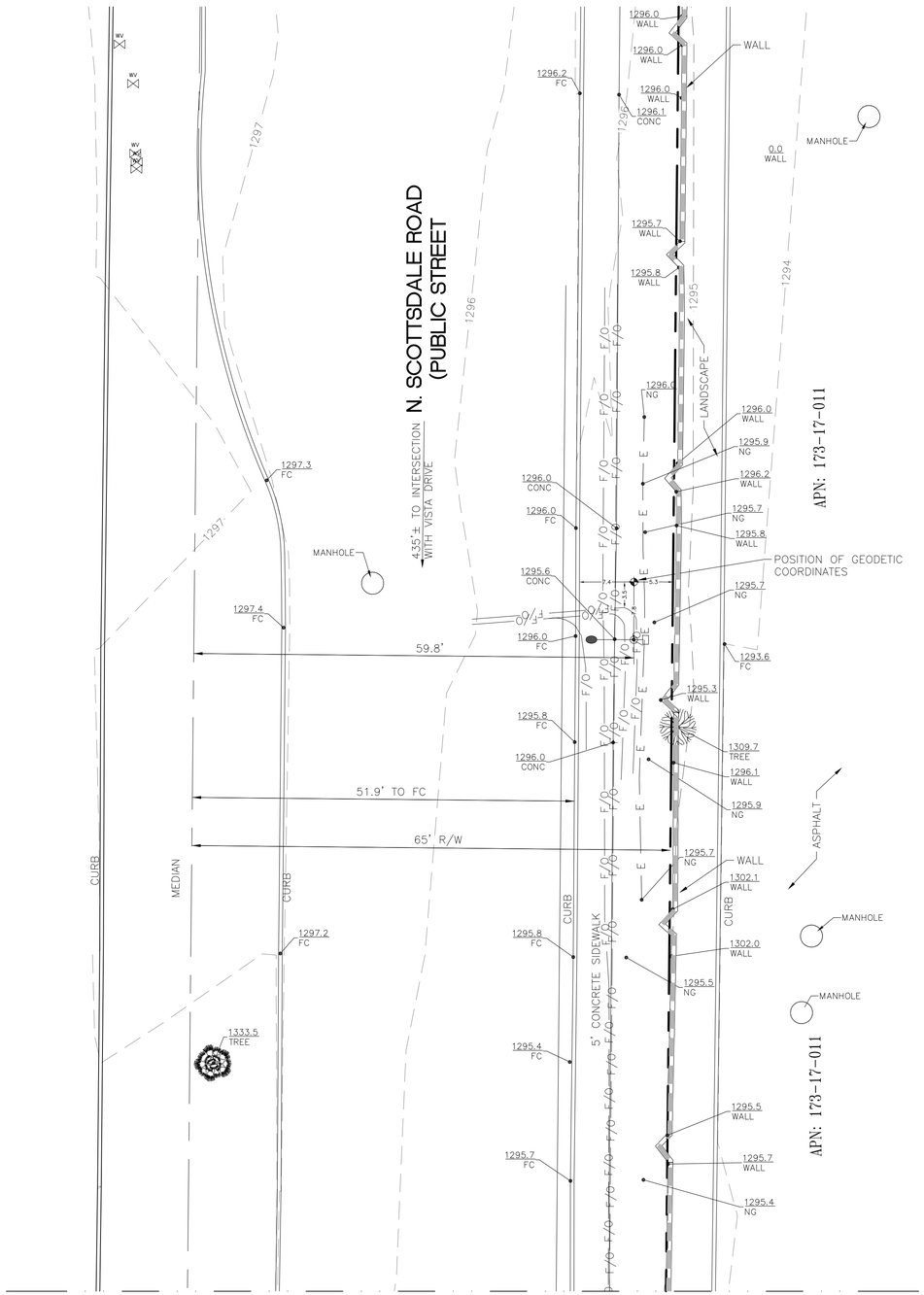
CMU	CONCRETE MASONRY UNIT	STREET LIGHT
CONC	CONCRETE	POSITION OF GEODETIC COORDINATES
R/W	RIGHT OF WAY	SPOT ELEVATION
FC	FACE OF CURB	TREE
NG	NATURAL GRADE	PALM TREE
WV	WATER VALVE	ELECTRIC LINE
Oxx	UTILITY MANHOLE	WATER LINES
		GAS LINES
		FIBER OPTIC LINES
		CMU WALL
		CURBLINES
		STREET CENTERLINES
		RIGHT OF WAY LINES
		MAJOR CONTOUR INTERVAL
		MINOR CONTOUR INTERVAL

GRAPHIC SCALE

10 0 5 10 20 40

(IN FEET)
1 inch = 10 ft.

POSITION OF GEODETIC COORDINATES
LATITUDE 33° 30' 50.20" (33.513944°) NORTH (NAD83)
LONGITUDE 111° 55' 33.01" (-111.925836°)WEST(NAD83)
GROUND ELEVATION @ 1295.11' (NAVD88)



SEE SHEET 2

at&t Mobility

smartlink
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SCOTTSDALE, AZ 85258

PHX01_008_A

5401 N. SCOTTSDALE ROAD
SCOTTSDALE, AZ 85250

MARICOPA COUNTY

ISSUED FOR:

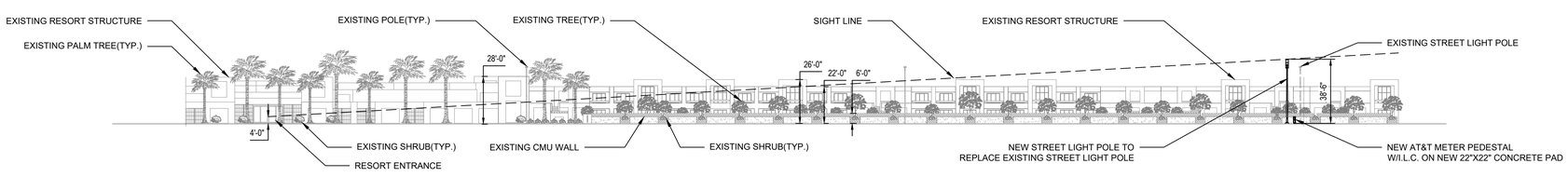
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	01/12/18	CK	PRELIMINARY	NS
B	07/16/18	LC	COMMENTS	NS
C	08/14/18	NS	FINAL	NS

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

REGISTERED LAND SURVEYOR
CERTIFICATE
6,360
SARAH A. BURGI
ARIZONA U.S.A.
EXPIRES 03/31/2020

SHEET NUMBER: LS-1

REVISION: C



SIGHT LINE DIAGRAM

24"x36" SCALE: 1" = 40'-0"
12"x18" SCALE: 1" = 80'-0"

40' 20' 0" 40'

1

at&t

1355 WEST UNIVERSITY DRIVE
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SCOTTSDALE AZ 85250

SHEET TITLE:

SIGHT LINE DIAGRAM

SHEET NO:

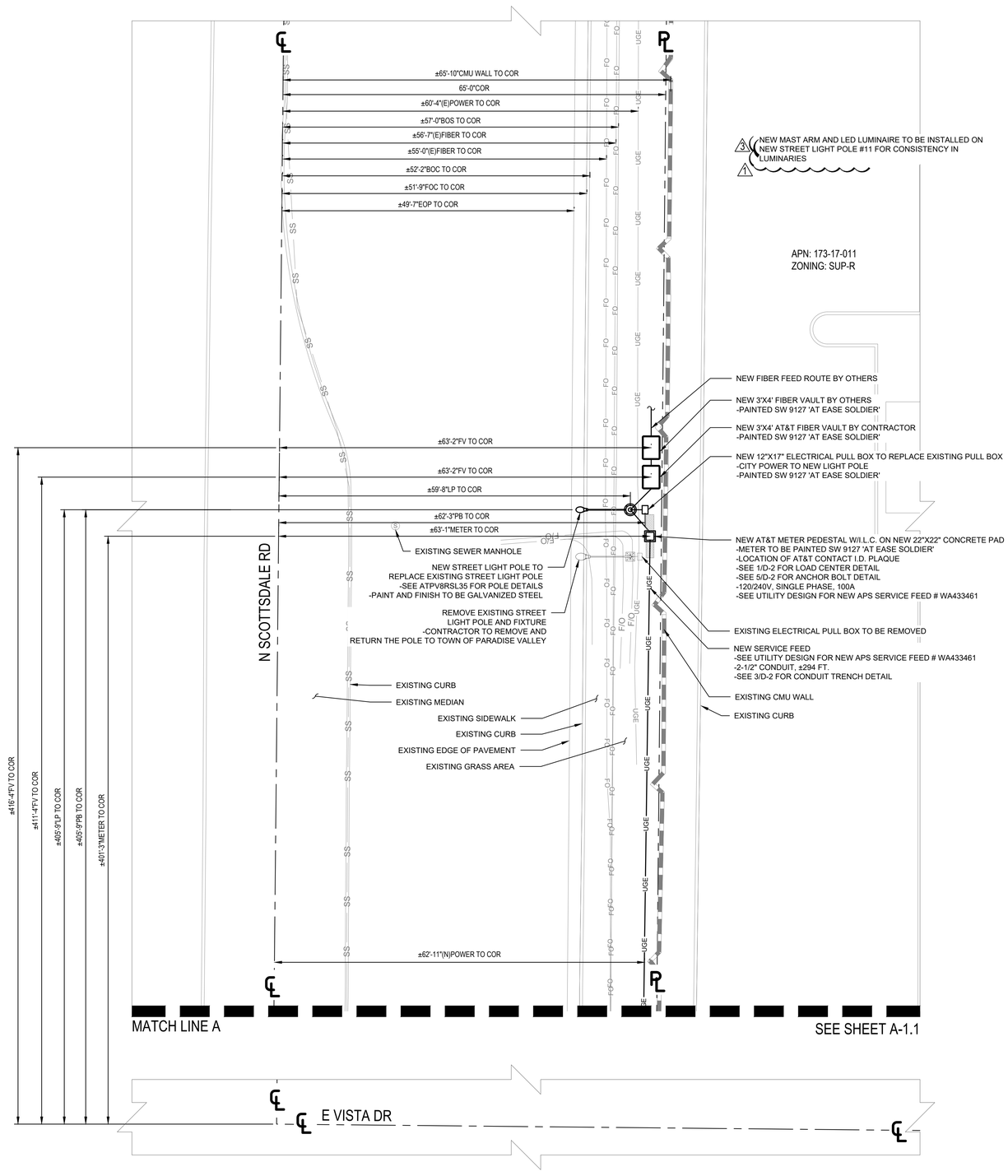
A-0

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:

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



N

OVERALL SITE PLAN

24"x36" SCALE: 1" = 10'-0"
12"x18" SCALE: 1" = 20'-0"
10' 5' 0" 10'

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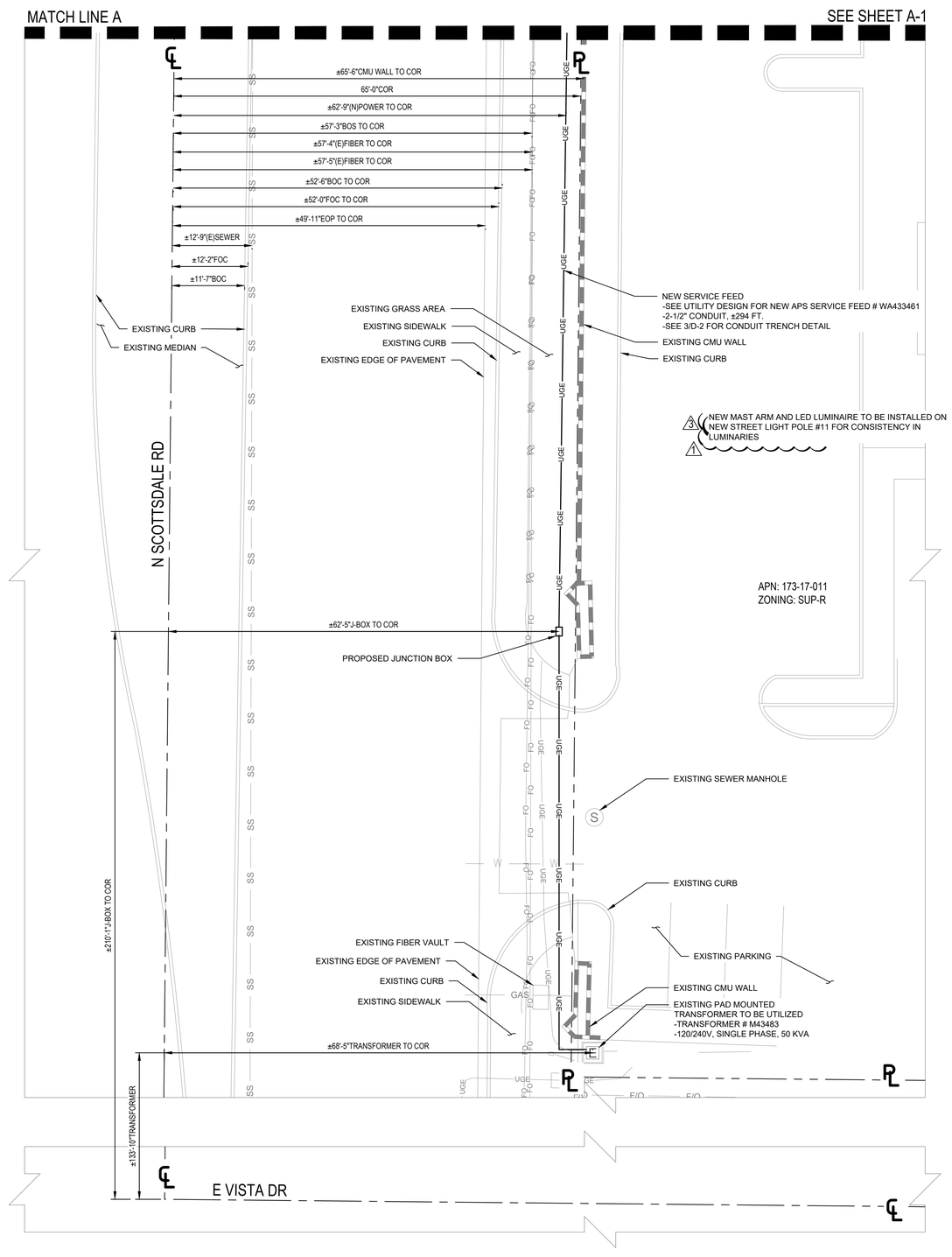
GENERAL NOTES

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:

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



-N-

OVERALL SITE PLAN

24"x36" SCALE: 1" = 10'-0"
12"x18" SCALE: 1" = 20'-0"
10' 5' 0" 10'

1

at&t
1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201

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 602-821-3567

REV	BY	DATE	DESCRIPTION
0	AJ	10.28.19	100% CD's
1	AJ	01.31.20	CLIENT COMMENTS
2	DM	03.25.20	NOTE ADDED
3	AJ	07.27.20	CITY COMMENTS
4	AJ	08.24.20	SIGHT LINE UPDATE
5	NL	11.19.20	POLE DESIGN

CHECKED BY:	DM

LINCENSURE NO:

11/19/2020

REGISTERED ARCHITECT
CERTIFICATE NO.
40833
NAVIN
PATHANGAY
DATE SIGNED
ARIZONA U.S.A.

EXPIRES 6/30/2022

SITE NAME & ADDRESS:

AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

SHEET TITLE:

OVERALL SITE PLAN

SHEET NO:

A-1.1

GENERAL NOTES

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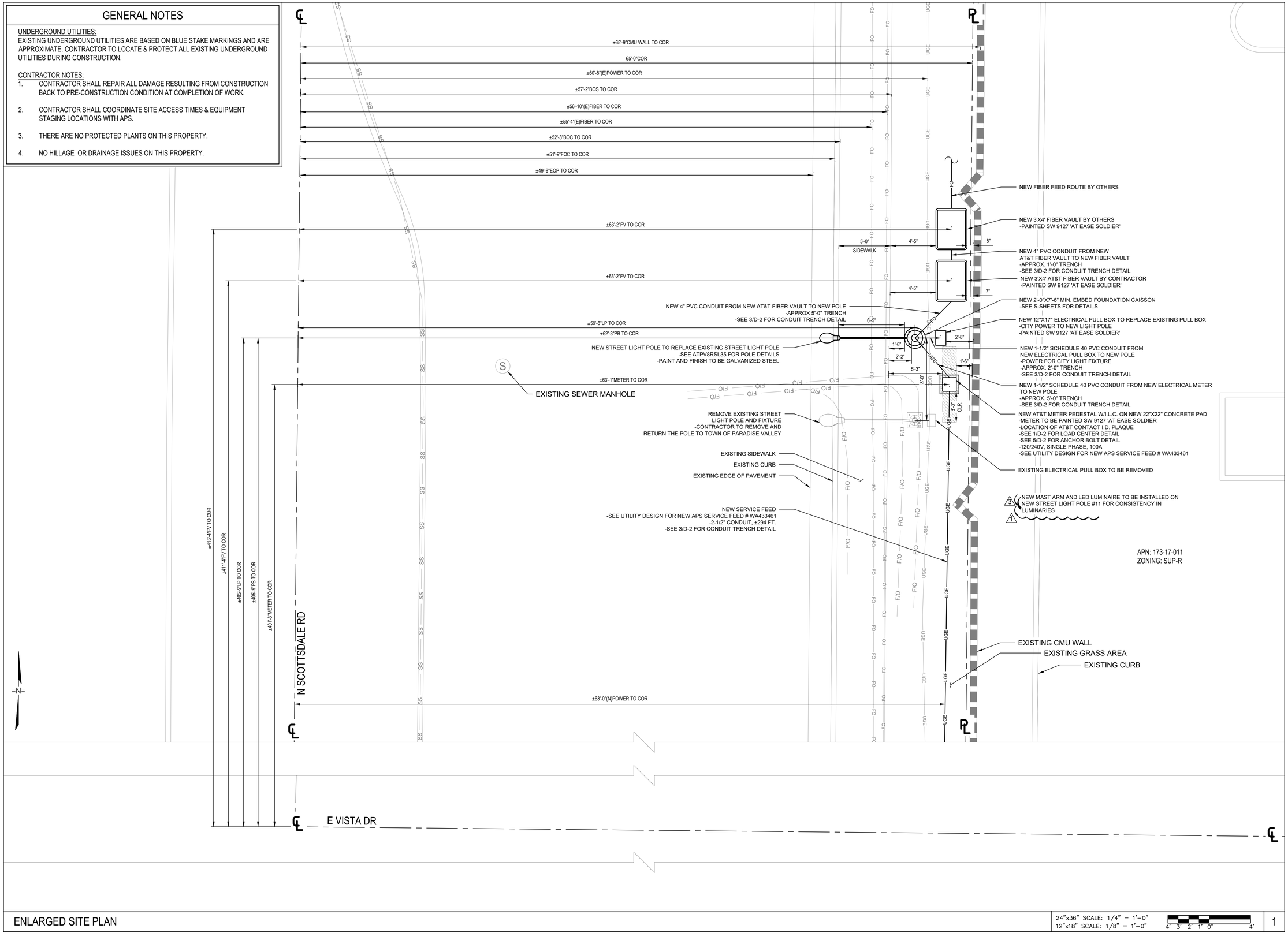

ENLARGED SITE PLAN

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

1

at&t
1355 WEST UNIVERSITY DRIVE
MESA, AZ 85201

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smartlink
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EXPIRES 6/30/2022

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SCOTTSDALE AZ 85250

SHEET TITLE:

ENLARGED SITE PLAN

SHEET NO:

A-2

GENERAL NOTES

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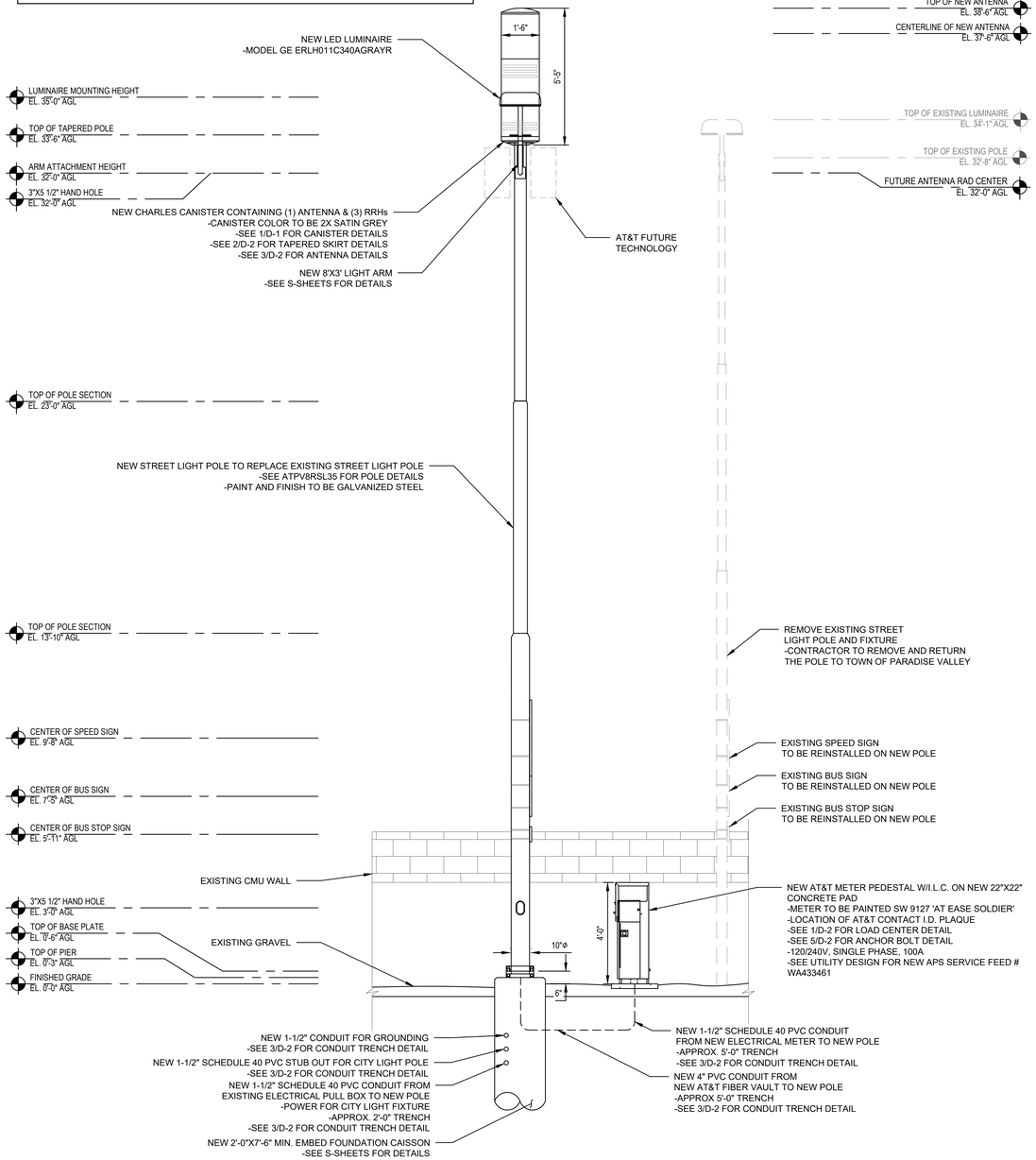
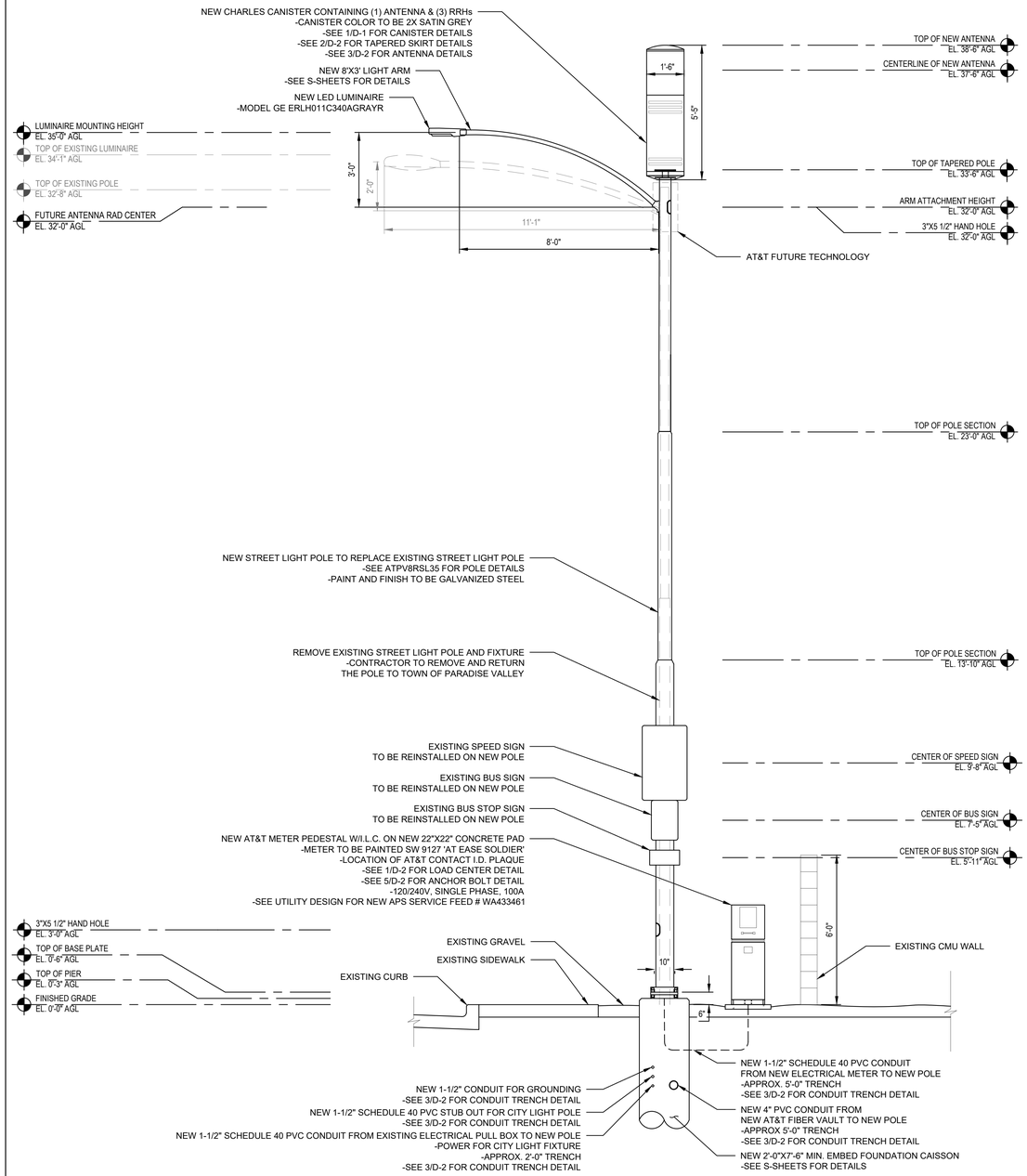
3. THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY.
4. NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY.



PROPOSED AND EXISTING WEST ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"
2' 1' 0" 2'

1



PROPOSED AND EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/8" = 1'-0"
12"x18" SCALE: 3/16" = 1'-0"
2' 1' 0" 2'

2

at&t
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5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

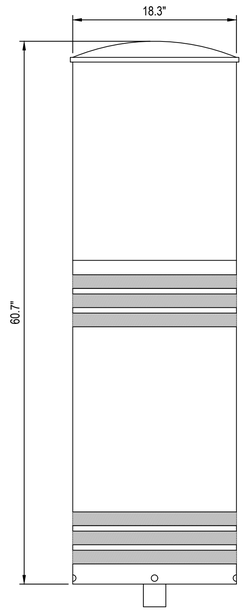
SHEET TITLE:

ELEVATIONS

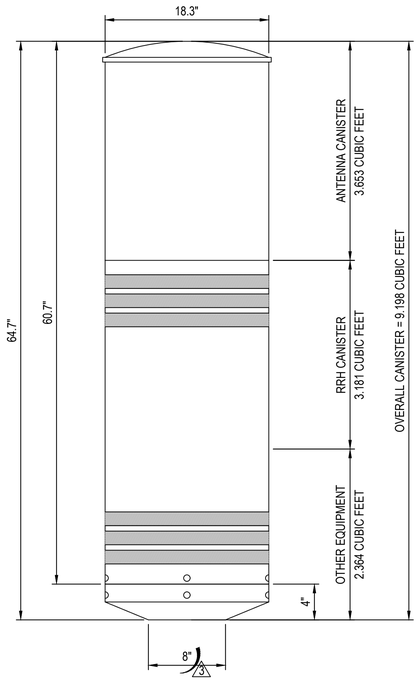
SHEET NO:

A-3

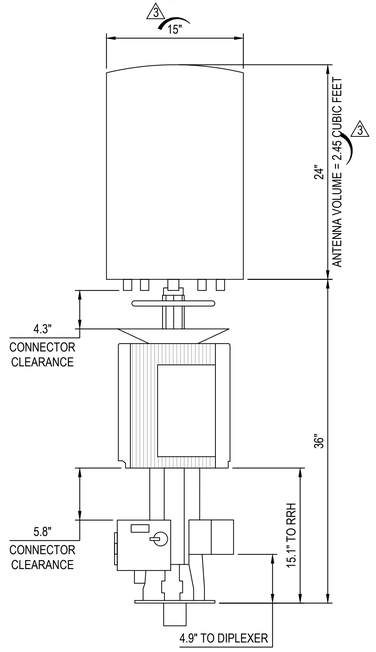
TRANSITION SKIRT CONFIGURATION



TRANSITION COVER CONFIGURATION

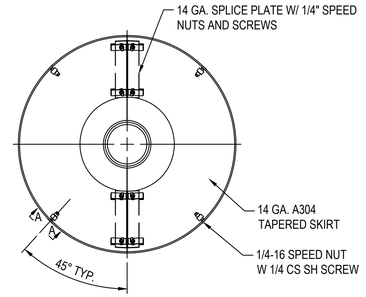


ANTENNA & RRH CONFIGURATION

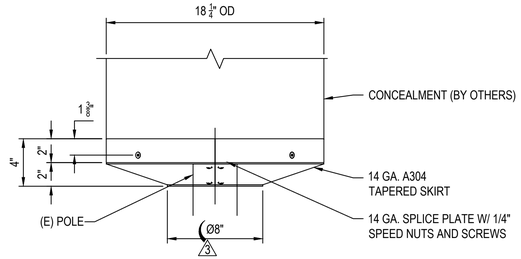


NOTE:
TO BE REVIEWED BY ELECTRICAL INSPECTOR

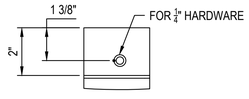
CANISTER DETAIL | N.T.S. | 1



PLAN VIEW

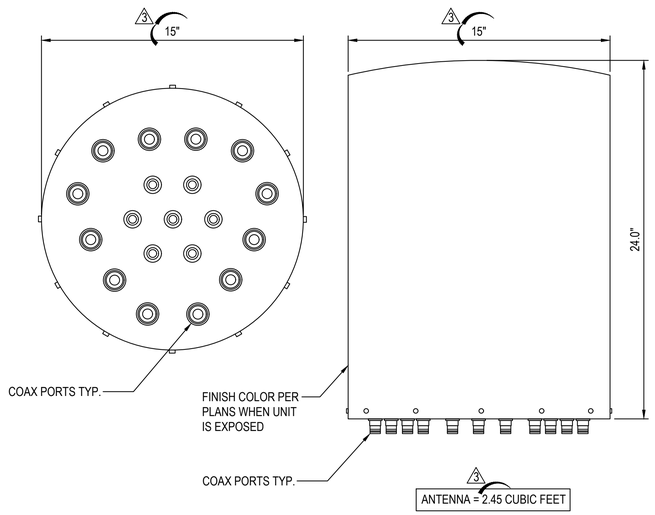


ELEVATION VIEW



SECTION A-A
DETAIL OF TAB

TAPERED SKIRT DETAIL | N.T.S. | 2

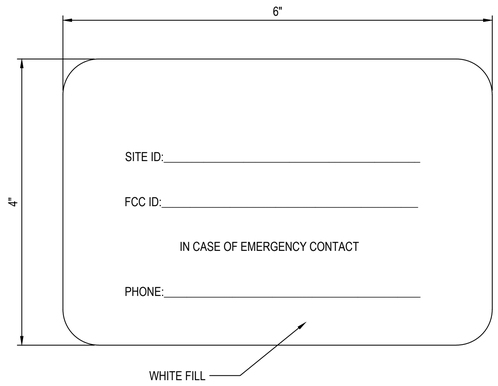


BOTTOM VIEW

SIDE VIEW

OMNI ANTENNA DETAIL | N.T.S. | 3

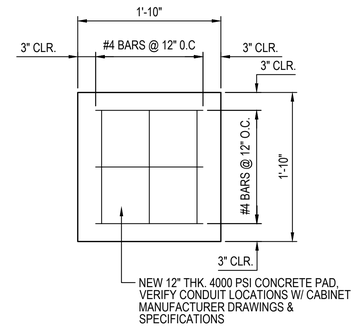
NOTES:
1. CABINET APPLICATION REQUIRES ANOTHER PLATE APPLIED TO BOTH
2. THE FACE OF THE CABINET AND POLE WITH WATER PROOF POLYURETHANE ADHESIVE.
3. TEXT FOR SIGNAGE SHALL INDICATE CORRECT SITE NAME AND NUMBER AS PER AT&T CONSTRUCTION MANAGER RECOMMENDATIONS.
4. ALL TEXT FONT IS ARIAL U.N.O.
5. PRINT SHOULD BE A MINIMUM OF 5/8"

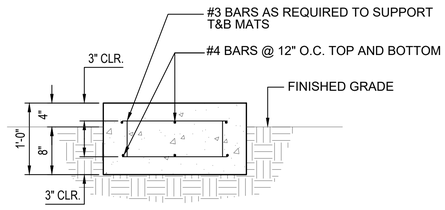


NOTE:
MOUNTED TO BOTH POLE AND METER OR EQUIPMENT CABINET

IDENTIFICATION PLAQUE DETAIL | N.T.S. | 4

NOTE: CONTRACTOR TO PROVIDE AND INSTALL ALL THROUGH SLAB CONDUITS PER MANUFACTURER SIZE, LOCATION AND QUANTITY SPECIFICATIONS





METER PEDESTAL CONCRETE SLAB

CONCRETE PAD DETAIL | N.T.S. | 5

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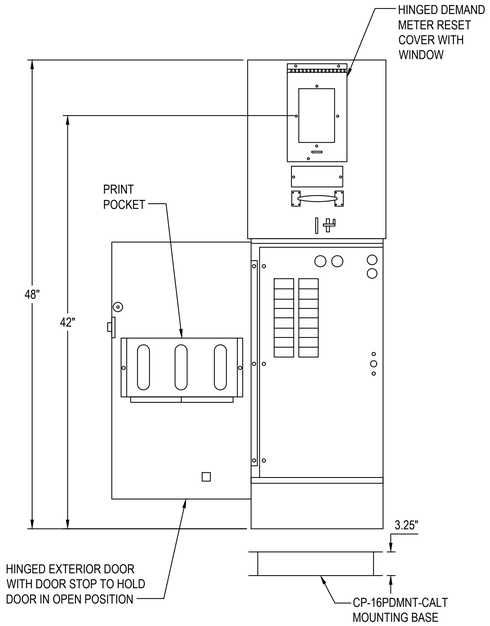
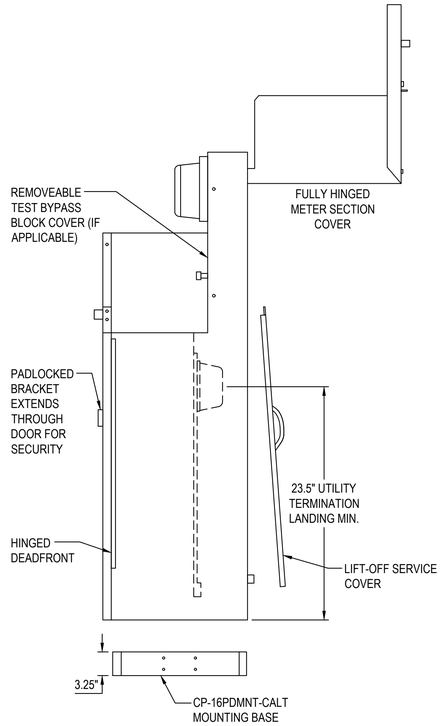
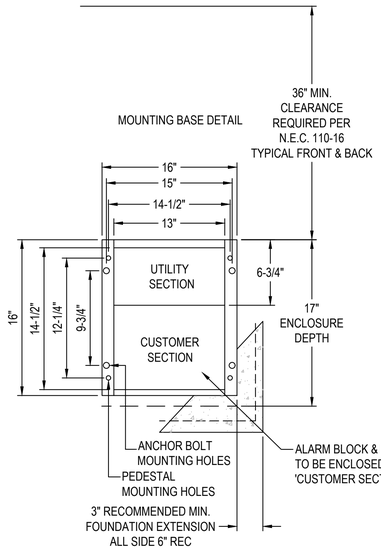
SCOTTSDALE AZ 85250

SHEET TITLE:
DETAILS

SHEET NO:
D-1

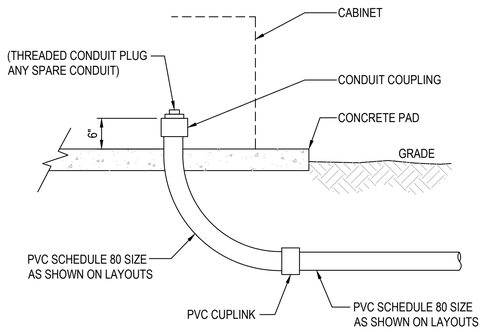




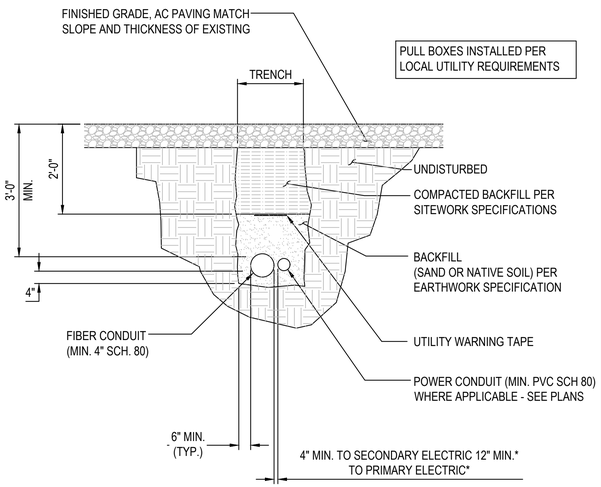


NOTES:
1. EQUIPMENT & SPECIFICATIONS PER MANUFACTURER.
2. GENERAL CONTRACTOR TO INSTALL PER MANUFACTURER.
3. METER CABINET = 7.11 CUBIC FEET
4. EQUIPMENT SLAB SHALL NOT BE GREATER THAN THE SIDEWALK HEIGHT IF INSTALLED LESS THAN 18" FROM EXISTING SIDEWALK
5. COLOR OF METER SW 9127 'AT EASE SOLDER'
6. CABINET = 7.84 CUBIC FEET

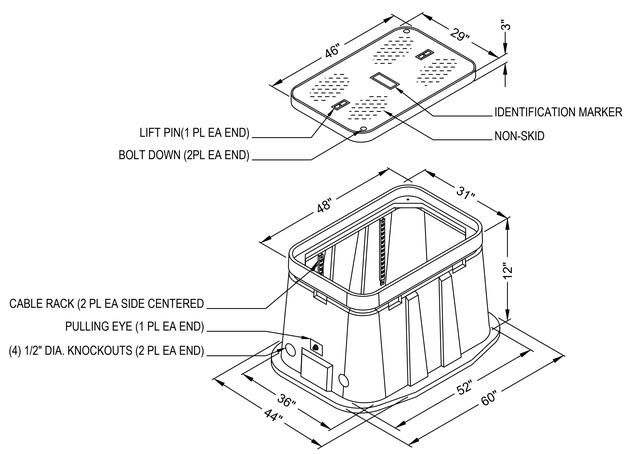
METER CABINET WITH LOAD CENTER DETAIL | N.T.S. | 1



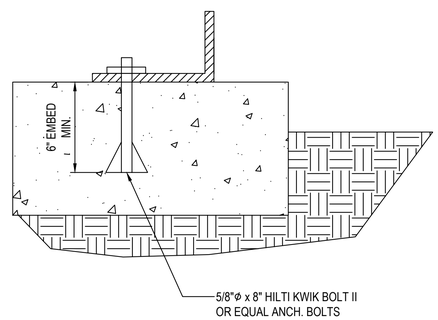
CONDUIT STUBUP DETAIL | N.T.S. | 2



CONDUIT TRENCH DETAIL | N.T.S. | 3



VAULT DETAIL | N.T.S. | 4



NOTE:
SLAB NOT TO EXCEED 4" ABOVE GRADE

TYPICAL ANCHOR BOLT DETAIL | N.T.S. | 5

at&t
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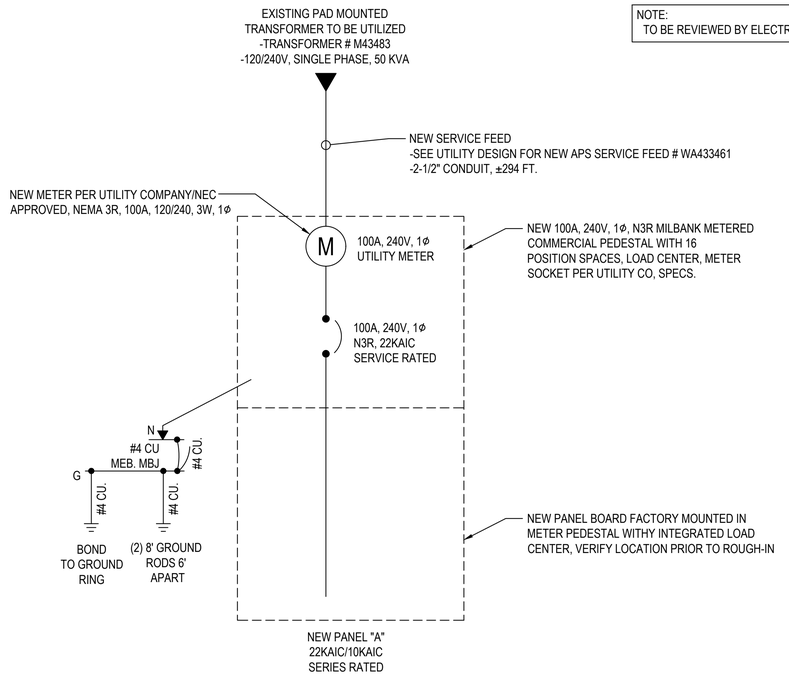
SHEET TITLE:
CANISTER DETAILS

SHEET NO:
D-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, ½ 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, ANSI/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, ANSI/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.



ONE-LINE DIAGRAM

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				CIRCUIT NUMBERING BY POLE POSITION		
		PHASE TOTALS (KVA/Phase)			1.00	0.50				CIRCUIT BREAKERS FEEDING A/C EQUIPMENT		
		DEMAND LOADS MAY VARY FROM CONNECTED	**Connected KVA**		**1.50**		**6**	**Connected AMPS**		SHALL BE "HACR" RATED.		
		LOADS BECAUSE OF CODE DIVERSITIES.	**Demand KVA**		**1.50**		**6**	**Demand AMPS**		ALL BREAKERS SHALL BE FULLY RATED		

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

PANEL SCHEDULE(PICO)

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MESA, AZ 85201

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smartlink
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SCOTTSDALE, AZ 85258

PLANS PREPARED BY:
State 48 Development Consulting
WWW.STATE48CONSULTING.COM
8687 E. VIA DE VENTURA STE 115
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480-242-2477 602-821-3567

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CHECKED BY: DM

LINCENSURE NO:
11/19/2020
REGISTERED ARCHITECT CERTIFICATE NO. 40833 NAVIN PATHANGAY STATE OF ARIZONA U.S.A. DATE SIGNED
EXPIRES 6/30/2022

SITE NAME & ADDRESS:
AT&T SITE ID:
CRAN_RANM:
PHX01_008_A
5303 N SCOTTSDALE RD
SCOTTSDALE AZ 85250

SHEET TITLE:
ELECTRICAL PANEL SCHEDULE AND ONE-LINE DIAGRAM

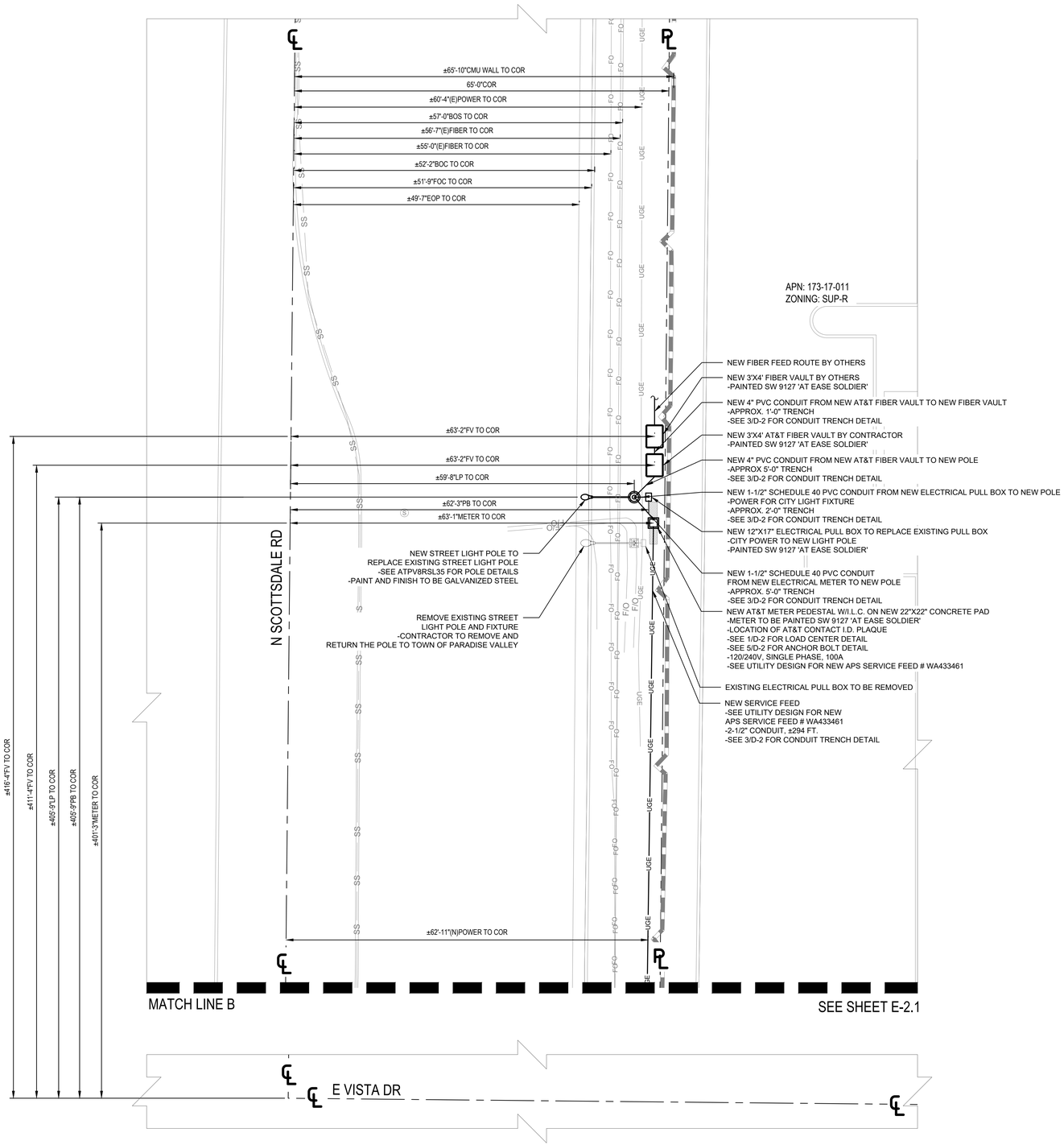
SHEET NO:
E-1

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:

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



-N-

OVERALL SITE PLAN

24"x36" SCALE: 1" = 10'-0"
12"x18" SCALE: 1" = 20'-0"
10' 5' 0' 10'

1

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SHEET TITLE:
SITE POWER PLAN

SHEET NO:
E-2

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:

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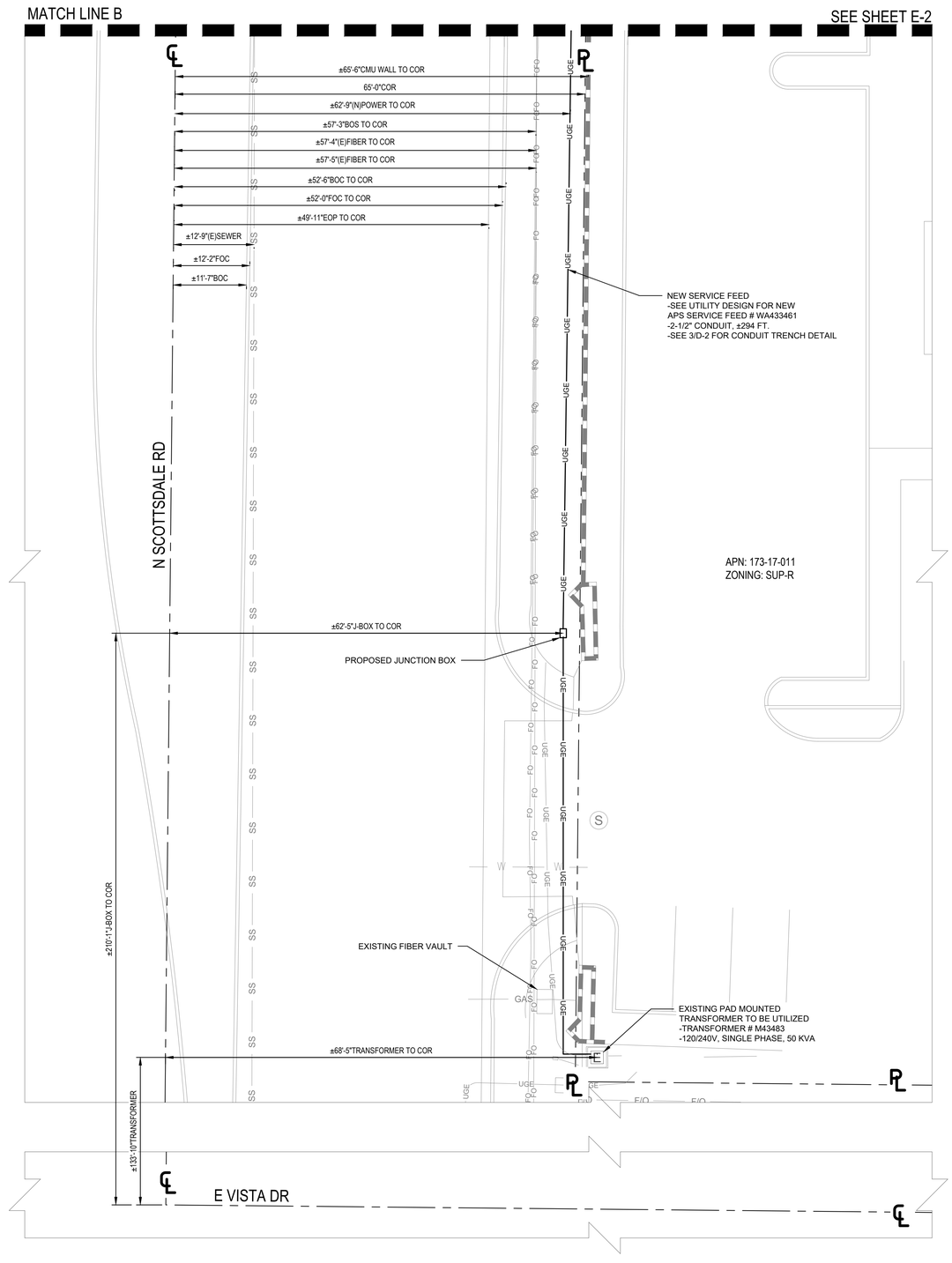
2. CONTRACTOR SHALL COORDINATE SITE ACCESS TIMES & EQUIPMENT STAGING LOCATIONS WITH APS.
3. THERE ARE NO PROTECTED PLANTS ON THIS PROPERTY.
4. NO HILLAGE OR DRAINAGE ISSUES ON THIS PROPERTY.



-N-

OVERALL SITE PLAN

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12"x18" SCALE: 1" = 20'-0"
10' 5' 0" 10'

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SHEET NO:

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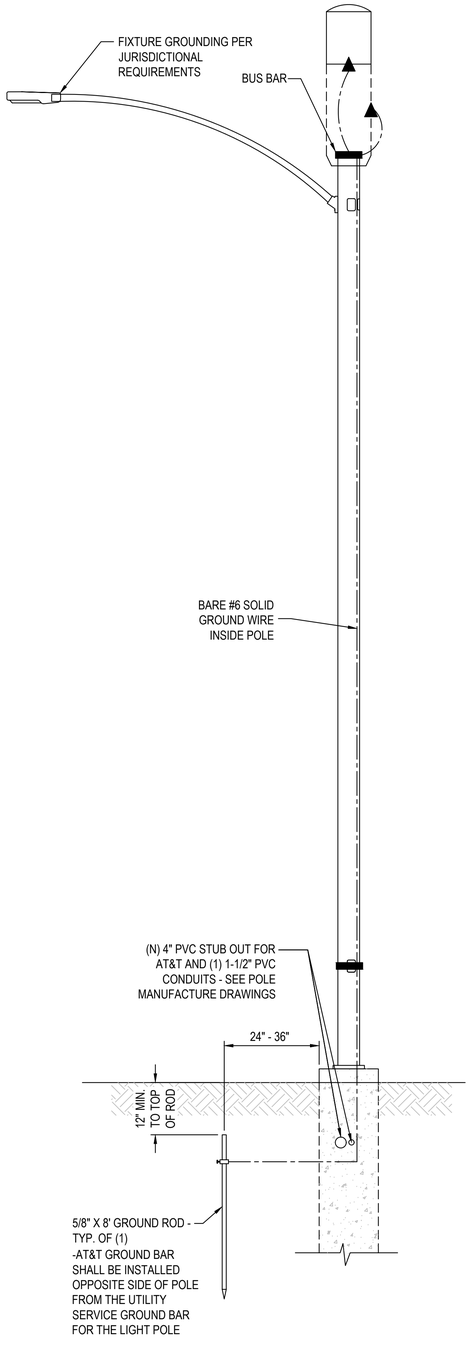
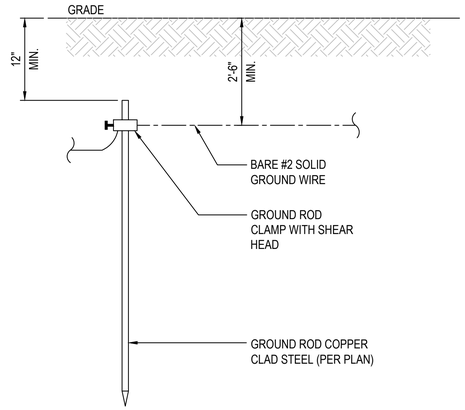
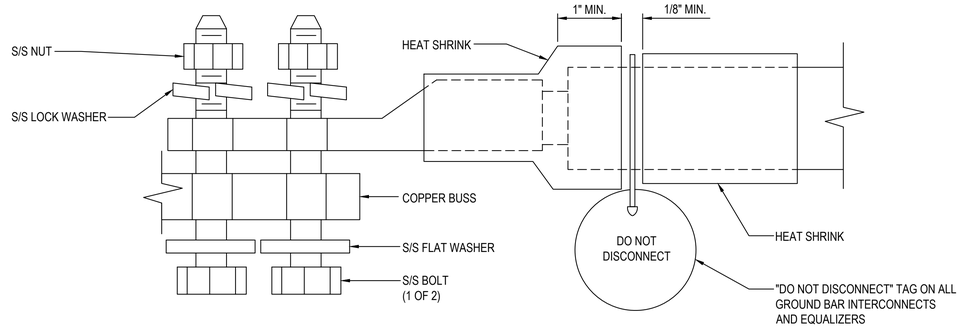


IF A SINGLE GROUND ROD DOES NOT HAVE A RESISTANCE TO GROUND OF 25 OHMS OR LESS, IT SHALL BE SUPPLEMENTED BY AN ADDITIONAL GROUND ROD. SEPARATION BETWEEN GROUND RODS MUST BE AT A MINIMUM DISTANCE OF 6'

POLE GROUNDING DETAIL | N.T.S. | 3



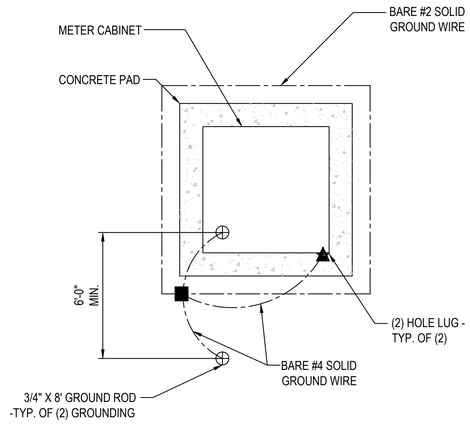
GROUND ROD DETAIL | N.T.S. | 1

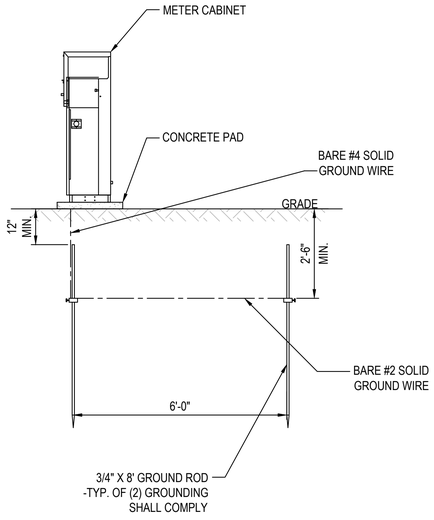


NOTE:
1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACE WITH ANTI-OXIDANT COMPOUND BEFORE MATING.
2. ALL HARDWARE SHALL BE S/S 3/8"Φ OR LARGER
3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL COAT ALL SURFACE WITH ANTI-OXIDANT COMPOUND BEFORE MATING.

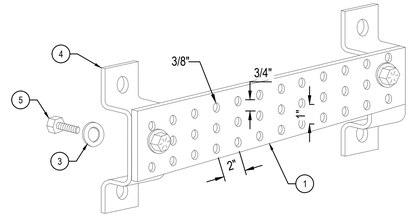
TWO LUG GROUND DETAIL | N.T.S. | 2

GROUND ROD
CADWELD
MECHANICAL CONNECTION
GROUND CONDUCTOR





METER GROUNDING DETAIL | N.T.S. | 4



1. TINNED COPPER GROUND BAR, 1/4" X 4" 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

GROUND BAR | N.T.S. | 5

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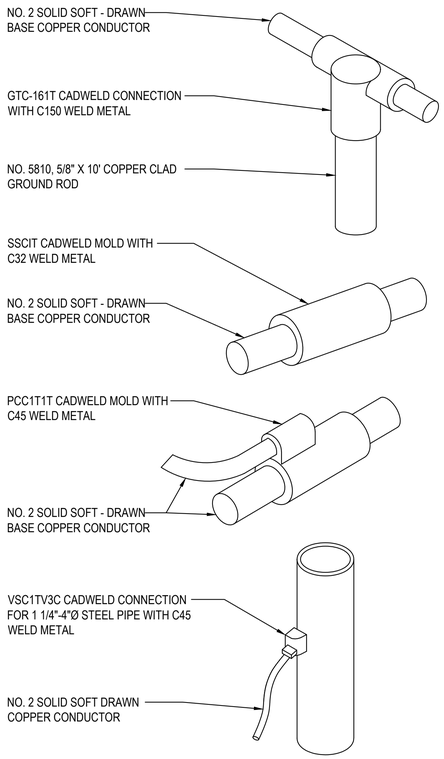
SHEET TITLE:
GROUNDING DETAILS

SHEET NO:
G-1

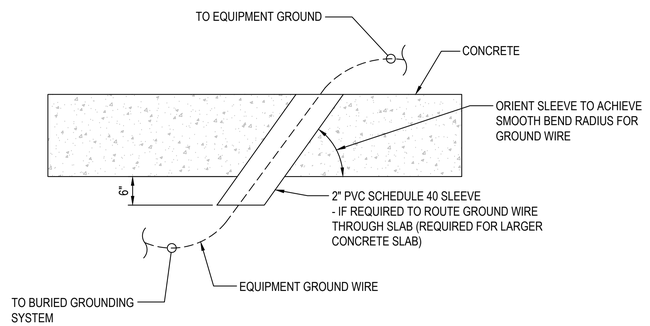


CADWELDS | N.T.S. | 1

NOTE:

1. ALL DETAIL ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
2. ALL GROUNDING CONDUCTORS: #8 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALL BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICH EVER IS DEEPER.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREST WITH A COLD GALVANIZED SPRAY, 8 GROUND BARS: A EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
8. MAIN GROUND BUS BAR (MGB) LOCATED NEAR THE BASE OF THE RADIO EQUIPMENT CABINET(S) SHALL BE FURNISHED AND INSTALL BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
11. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMNEDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM)

GROUNDING NOTES | N.T.S. | 2



GROUNDING DETAIL | N.T.S. | 3

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PHX01_008_A
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SCOTTSDALE AZ 85250

SHEET TITLE:

GROUNDING DETAILS

SHEET NO:

G-2

GENERAL STRUCTURAL NOTES

BUILDING CODE

2015 EDITION OF THE INTERNATIONAL BUILDING CODE

LOADS

WIND

WIND SPEED (ULTIMATE 3-SEC GUST), Vult = 115 MPH
WIND SPEED (NOMINAL 3-SEC GUST), Vult = 89 MPH (SEC 1609.1.1)
WIND EXPOSURE CATEGORY = C
RISK CATEGORY = II

SEISMIC
S_{DS} = 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 (Fy = 60 KSI). FOR #4 BARS AND SMALLER USE ASTM A615 GRADE 40 DEFORMED BARS (Fy = 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 = 0.12$d_b$$T_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	(Fy = 42 KSI MIN)
LUMINAIRE:	ASTM A500	(Fy = 42 KSI MIN)
BASE PLATE:	ASTM A36	(Fy = 36 KSI)
MISC STEEL:	ASTM A36	(Fy = 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).

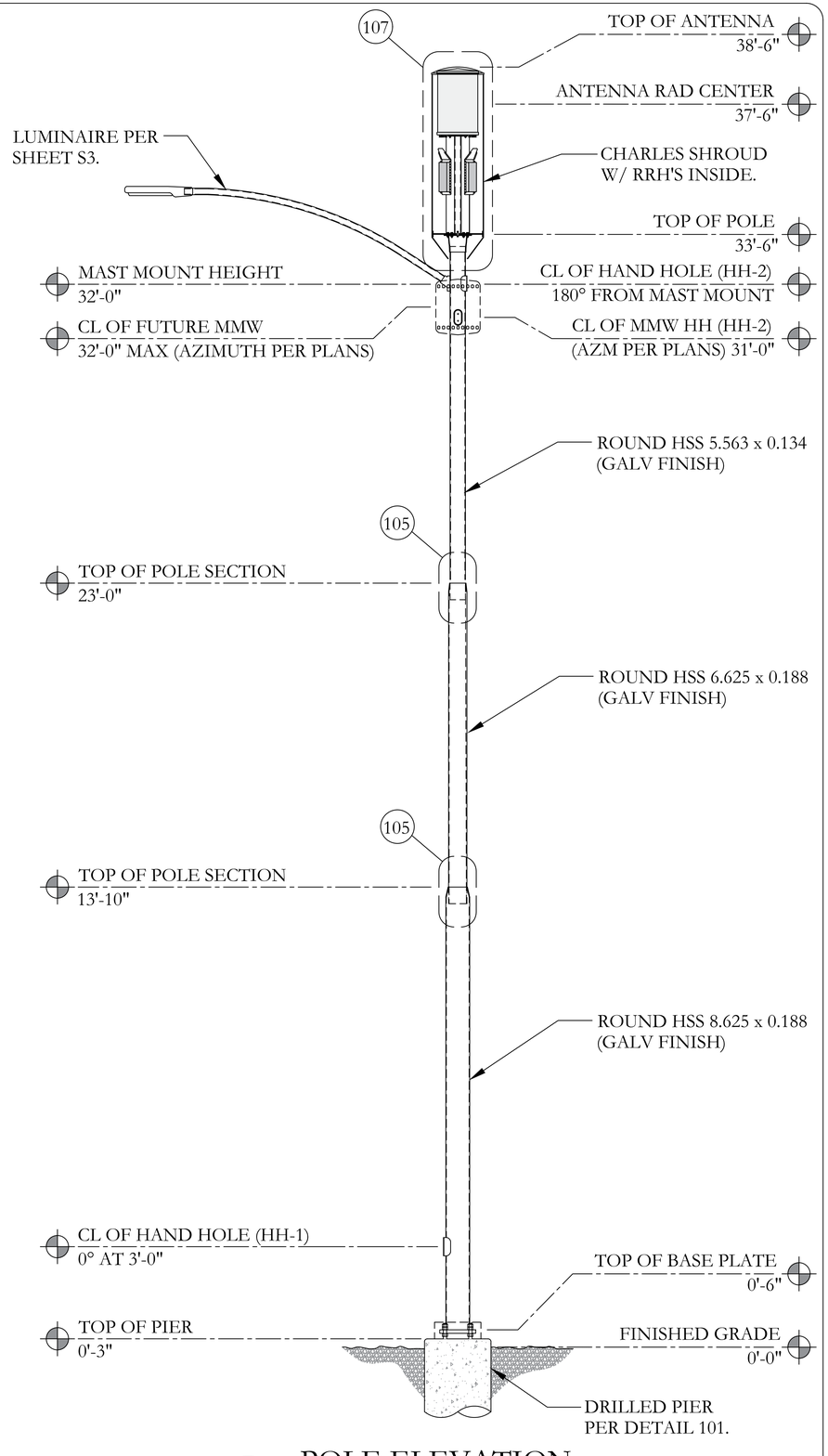
STEEL REINFORCING
1. IN-PLACE REINFORCING IN FOUNDATIONS PRIOR TO CONCRETE PLACEMENT.
2. VERIFICATION OF CONFORMANCE TO SPECIFICATIONS AND DETAILS.

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. 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

CEM-TEC LIGHT STANDARDS

AT&T

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

REV	ISSUED	DATE
0	ISSUED FOR PERMIT	05.17.20

Registered Professional Engineer (Civil) CERTIFICATE NO. 64308 MATTHEW E. NIEVES 05.26.20 STATE OF ARIZONA, U.S.A. Expires 06-30-2020

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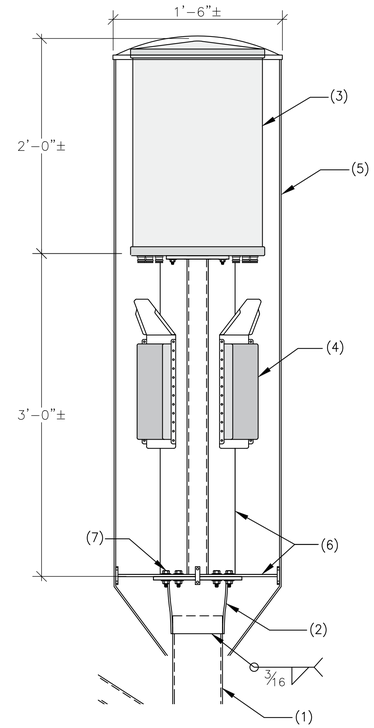
JOB: 20-S074 | ENG: MEN

GSN & ELEVATION

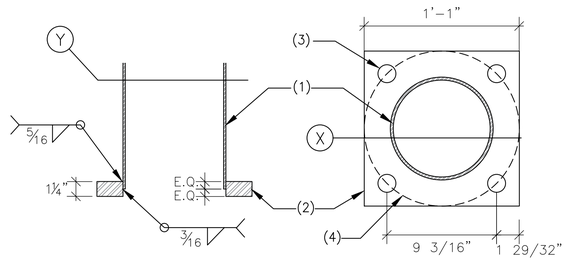
S1 | 0



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.

107 TOP OF POLE ASSEMBLY
NTS

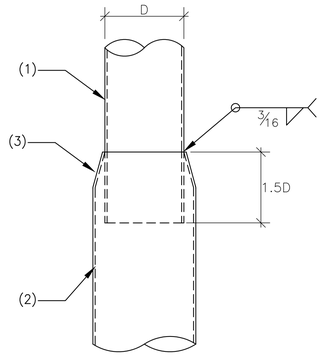


X POLE CONNECTION

Y BASE PLATE PLAN

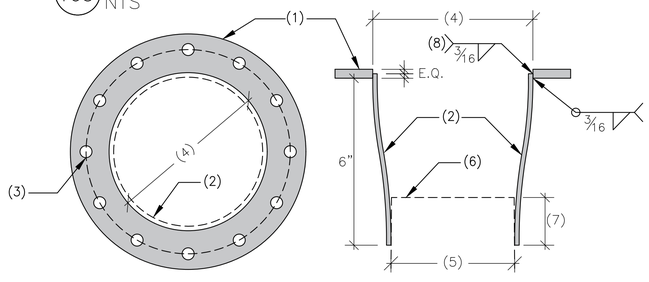
1. STEEL MONOPOLE BASE.
2. 13x13x1–1/4 STEEL BASE PLATE.
3. 1–1/2" DIA. HOLES FOR ANCHOR BOLTS.
4. 13" DIA. BOLT CIRCLE.

104 BASE PLATE & BASE PLATE CONNECTION
NTS



1. UPPER POLE SECTION.
2. LOWER POLE SECTION.
3. CRIMP TOP OF LOWER POLE SECTION.

105 POLE SPLICE CONNECTION
NTS



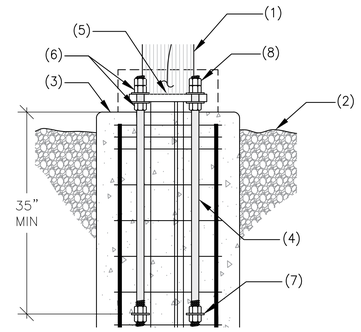
X FLANGE PLAN

Y REDUCER SECTION

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

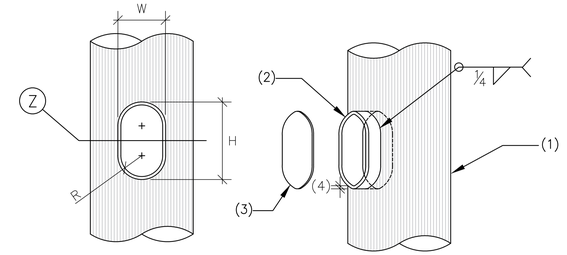
ALIGN (6) HOLES WITH (6) HOLES IN CHARLES SHROUD. OTHER HOLES ARE FOR ANTENNA ADJUSTMENTS.

106 STEPPED POLE REDUCER W/ FLANGE
NTS



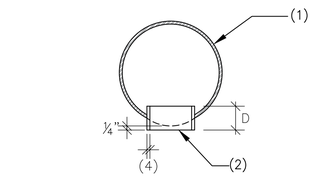
1. STEEL MONOPOLE.
2. FINISHED GRADE.
3. DRILLED PIER PER DETAIL 101.
4. (4) 1–1/4" DIA. x 44" LONG ANCHOR RODS. LEAVE 6" PROJECTION ABOVE PIER.
5. BASE PLATE AND CONNECTION TO POLE PER DETAIL 104.
6. HEAVY HEX NUT W/ STRUCTURAL WASHER AT EACH SIDE OF PLATE – PRETENSIONED – TIGHTEN PER GSN.
7. MIN 3x3x1/4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

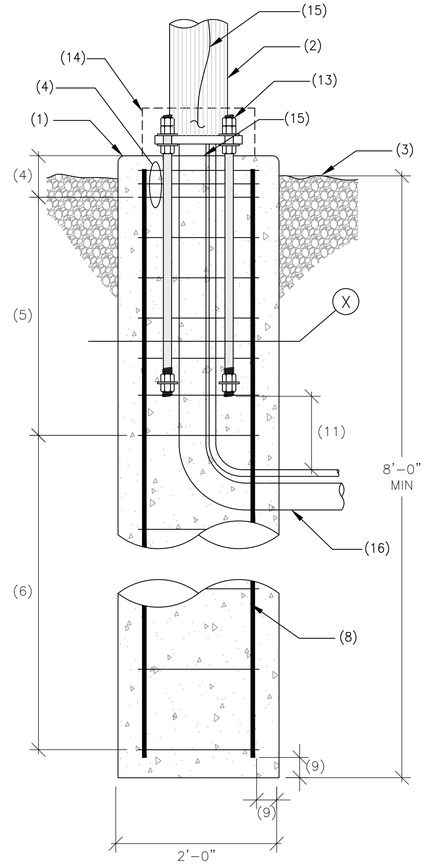


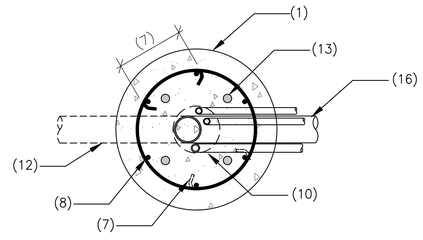
Z PLAN

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

HAND HOLE SCHEDULE					
MARK	HEIGHT (H)	WIDTH (W)	DEPTH (D)	RADIUS (R)	THICK (t)
HH–1	6 ½ IN	4 IN	2 IN	1 ¾ IN	1/4 IN
HH–2	5 ½ IN	3 IN	2 IN	1 ¼ IN	1/4 IN

103 HAND HOLE SCHEDULE
NTS





X SECTION

1. CONCRETE DRILLED PIER.
2. STEEL MONOPOLE PER ELEVATION.
3. FINISHED GRADE.
4. (3) #3 TIES EQUALLY SPACED IN TOP 6" OF CONCRETE PIER.
5. #3 TIES AT 6" O.C. – CONTINUED PAST ANCHOR BOLT EMBEDMENT.
6. #3 TIES AT 12" O.C MAX FOR REMAINDER OF PIER DEPTH.
7. LAP TIES 12" MIN. STAGGER LAPS 180°.
8. (6) #6 LONGITUDINAL BARS EQUALLY SPACED.
9. MIN 3" CLR PER GSN.
10. 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.
11. 12" MIN.
12. ALTERNATE CONDUIT APPROACH.
13. ANCHOR RODS AND ANCHORAGE PER DETAIL 102.
14. SQUARE BASE COVER.
15. GROUND PER CITY REQUIREMENTS.
16. CONDUIT SIZE AND QUANTITY PER AT&T AND CITY STANDARDS. VERIFY WITH CURRENT AT&T AND CITY STANDARDS.

101 DRILLED PIER FOUNDATION
NTS

CEM-TEC SINCE 1974 LIGHT STANDARDS

AT&T

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

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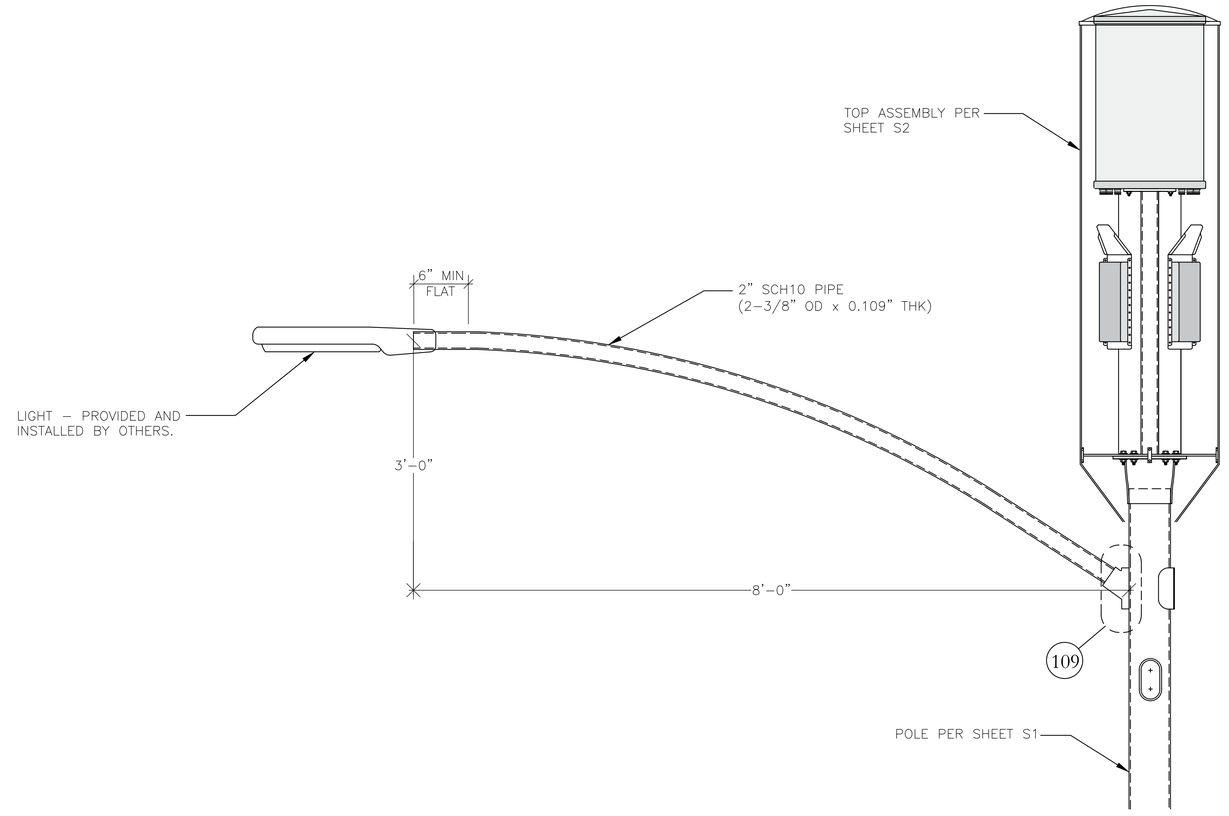
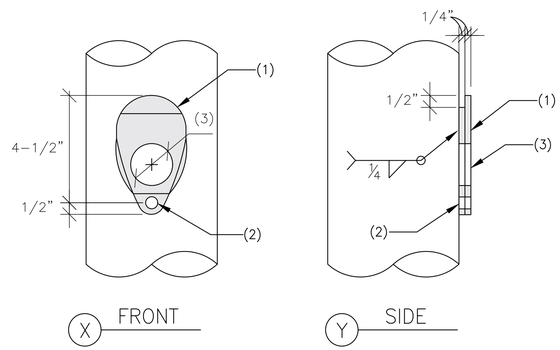
POLE DETAILS

S2 | 0

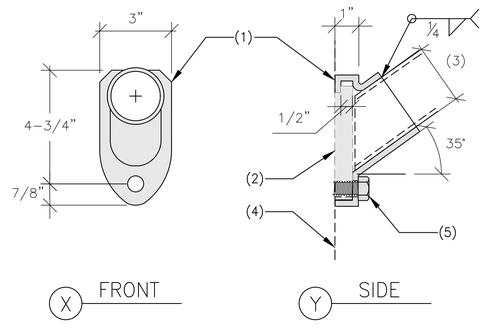


108 LUMINAIRE MAST
NTS



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.

110 FITTING SHOE
NTS



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).

109 FITTING FOOT
NTS

CEM-TEC SINCE 1974 LIGHT STANDARDS

AT&T

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

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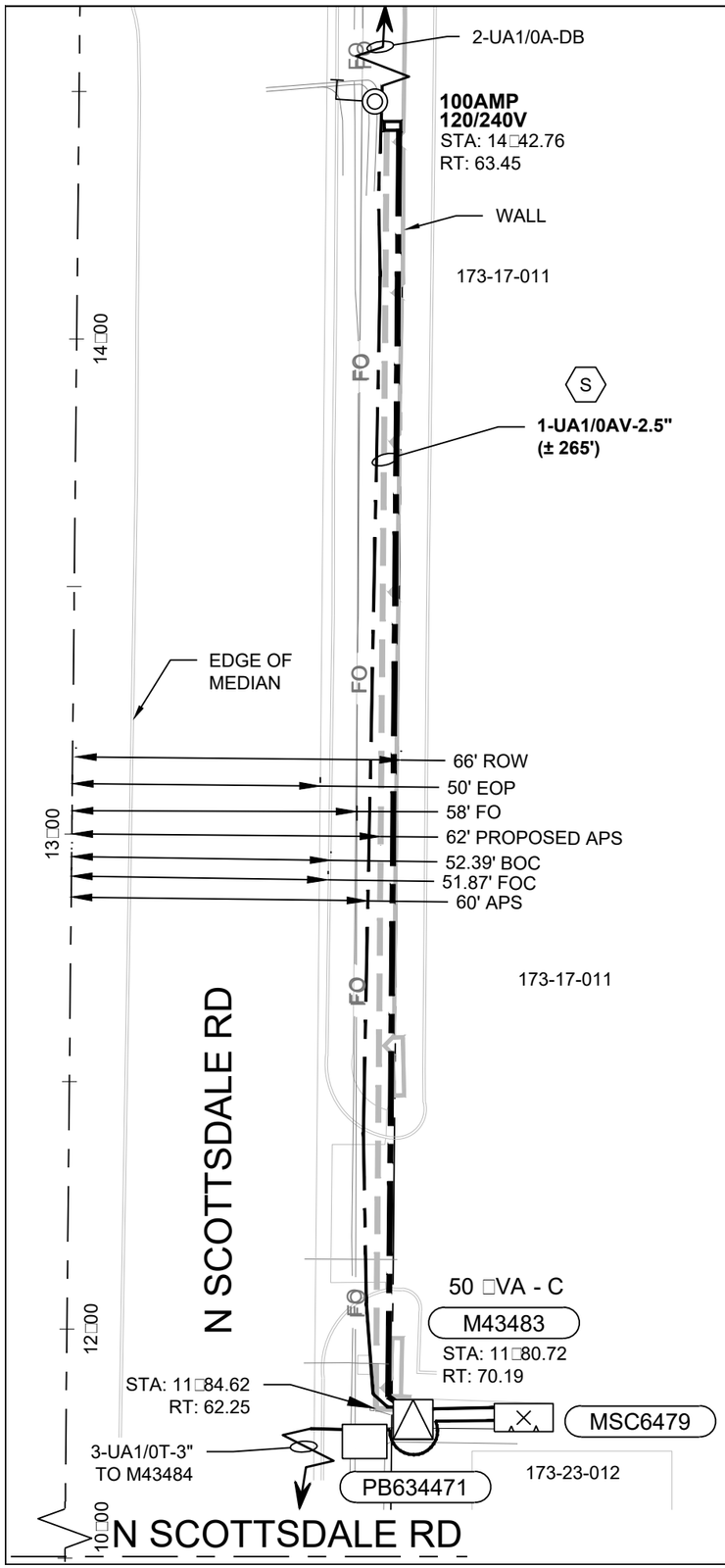
LIGHT MAST DETAILS

S3 | 0



ISSUED-FOR-CONSTRUCTION

FINAL DESIGN

06/14/05 — TRC

GENERAL NOTES FOR PUBLIC WOR□S CONSTRUCTION

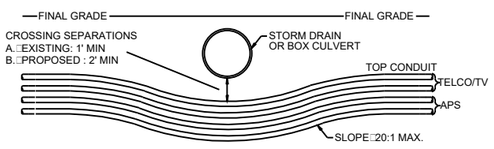
1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS □MAG□UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WOR□S CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT , THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
2. 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.
3. 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.
4. A PUBLIC WOR□S INSPECTOR WILL INSPECT ALL WOR□S WITHIN THE CITY OF SCOTTSDALE RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY INSPECTION SERVICES 24 HOURS PRIOR TO BEGINNING CONSTUCTION BY CALLING 480-312-5750.
5. WHENEVER EXCAVATION IS NECESSARY, CALL BLUE STA□E CENTER, 602-263-1100, TWO WOR□ING DAYS BEFORE EXCAVATION BEGINS. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PRO□ECT. CALL "COLLECT" IF NECESSARY.
6. ENCROACHMENT PERMITS ARE REQUIRED FOR ALL WOR□ 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 WOR□ UNTILL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.
7. 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 ESTABLISED BY THE UNIFORM BUILDING CODE.

CONSTRUCTION NOTES:

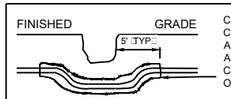
1. REFER TO CITY OF SCOTTSDALE WATER SEPARATION DETAIL 2372
2. REFER TO CITY OF SCOTTSDALE SEWER SEPARATION DETAIL 2401
3. REFER TO CITY OF SCOTTSDALE PAVEMENT REPLACEMENT DETAIL 2200
4. REFER TO CITY OF SCOTTSDALE TRENCH BAC□FILL DETAIL 2201

(INSTALL)
TOTAL WIRE DATA FOOTAGE:
SECONDARY / SERVICE / ST. LT. / D-D
6220.UA1/0AV = ± 294'

STREET SIDE
S
FINAL GRADE
28"
18"
10"
ES-2.5"□1□
*APPROVED BEDDING REQUIRED
12"



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



DETAIL AT WASH

CONCRETE CAPS SHALL BE INSTALLED OVER CONDUIT IN TRENCHES WHICH CROSS OR ARE LOCATED IN DRAINAGE AREAS, WASHES, AND OTHER AREAS SUB□ECT TO EROSION. CONCRETE CAP SHALL BE 2" ON SIDES AND 4" ON TOP.

CUSTOMER TO MAINTAIN 36" OF COVER WHEN CROSSING WASH OR DRAINAGE AREAS. MINIMUM SLOPE IS 1' IN 12' LENGTH.

GENERAL CONSTRUCTION NOTES

CUSTOMER TO PROVIDE & INSTALL:

1. STA□ING PROPERTY CORNERS WITH OFFICIAL SURVEY CAPS, ELEVATIONS AND GRADES. THERE IS A RESTA□ING FEE IF RESURVEYING IS REQUIRED DUE TO APS SURVEY STA□ES BEING DESTROYED IN THE FIELD.
2. 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

1. EQUIPMENT PADS □EXCEPT 3-PHASE TRANSFORMER PADS□ □BOXES, PULL BOXES, FLAT STRAP AND MANHOLES UNLESS NOTED OTHERWISE. PLEASE CONTACT CSR TO ARRANGE TO PIC□ 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.

N

Contact Arizona 811 at least two full working days before you begin excavation
ARIZONA811 BLUE STAKE, INC.
Call 811 or click Arizona811.com

WA433461
AT&T PHX01_008
5401 N SCOTTSDALE RD
SCOTTSDALE, A□ 85250

TOTAL TRENCH □□□□	± 265'
TOTAL TRENCH IN R/W □□□□	± 265'

APS UTILITIES □EY

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

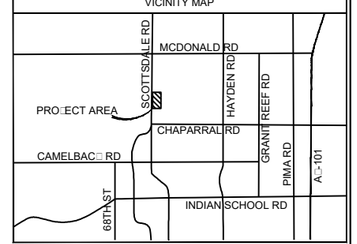
UG ELECTRIC NOMINAL TRANSMISSION □69□V□□
UG ELECTRIC NOMINAL PRIMARY □12,470/7,200V□□
UG ELECTRIC NOMINAL SECONDARY/SERVICE □120/240V□□
OH ELECTRIC NOMINAL TRANSMISSION □69□V□□
OH ELECTRIC NOMINAL PRIMARY □12,470/7,200V□□
OH ELECTRIC NOMINAL SECONDARY/SERVICE □120/240V□□
CONDUIT
TRENCH RUNNING LINE
□UNLESS OTHERWISE NOTED

APS SYMBOLS LEGEND

EXISTING EQUIPMENT	PROPOSED EQUIPMENT	DESCRIPTION
		- PADMOUNTED TRANSFORMER
		- SWITCHING CABINETS
		- 1Ø SWITCHING CABINET
		- OH/UG CAPACITOR BAN□
		- □BOX / PULL BOX
		- MANHOLES
		-OH TRANSFORMER
		-OH SWITCH □PF□
		- APS OWNED POLE
		- APS OWNED STEEL POLE
		- APS OWNED □OINT USE POLE
		- DIP □TRANSITION□POLE
		- STREET LIGHT
		- DUS□ TO DAWN LIGHT

DATA MODIFIED PER FIELD CONDITIONS

VICINITY MAP

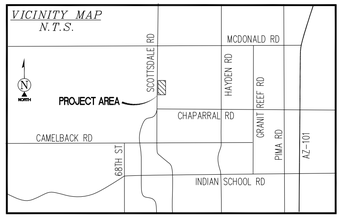


T 02.0N R 04.0E S□□ 14 SW 1/4	MAP# 19-45
CONTACT: PAUL WEDRA	
PHONE: 602-371-7047 PGR/MOBILE: 602-316-6717	
INSPECTOR: GEORGE MOLINA	
PHONE: PGR/MOBILE: 602-809-3586	

NO.	DATE	DESCRIPTION	BY

aps — AT&T PHX01_008 — 5401 N SCOTTSDALE RD

WO#: WA433461	DATE: 06/14/18
BY: □RYMAN-TRC	SCALE: 1:30
FILENAME: WA433461.DWG	SHEET 1 OF 1



SURVEY DATE
01/05/2018 AND 05/17/2018

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.

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.

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

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.

NOTES:

NO CONFLICT WITH AMERICAN TELEPHONE COAX/FIBER PER BLUESTAKE
NO CONFLICT WITH CITY OF SCOTTSDALE UTILITIES PER BLUESTAKE
CITY OF SCOTTSDALE TRAFFIC NO RESPONSE PER BLUESTAKE
CITY OF SCOTTSDALE FIBER NO RESPONSE PER BLUESTAKE
NO CONFLICT WITH COX COMMUNICATIONS FIBER PER BLUESTAKE
NO CONFLICT WITH CENTURY LINK COAX/FIBER PER BLUESTAKE
ARCADIA VISTA IRRIGATION NO RESPONSE PER BLUESTAKE

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

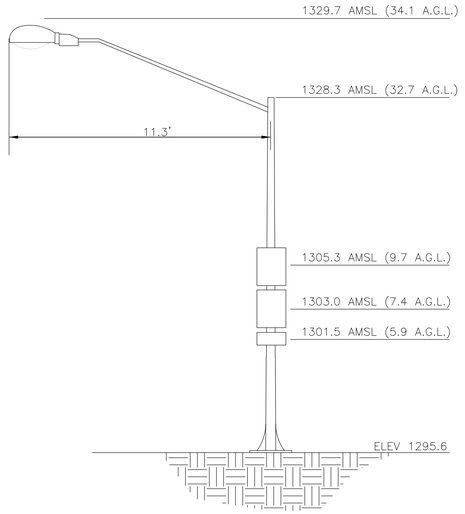
ANY RIGHT OF WAY SHOWN HEREON IS PLOTTED FROM INFORMATION PROVIDED BY OTHERS AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.

TO BE ALL DISTANCES SHOWN HEREON ARE GRID DISTANCES.

A TITLE REPORT WAS NOT PROVIDED AT THE TIME THE SURVEY WAS PREPARED.

R.O.W. TO BE CONFIRMED BY TITLE.

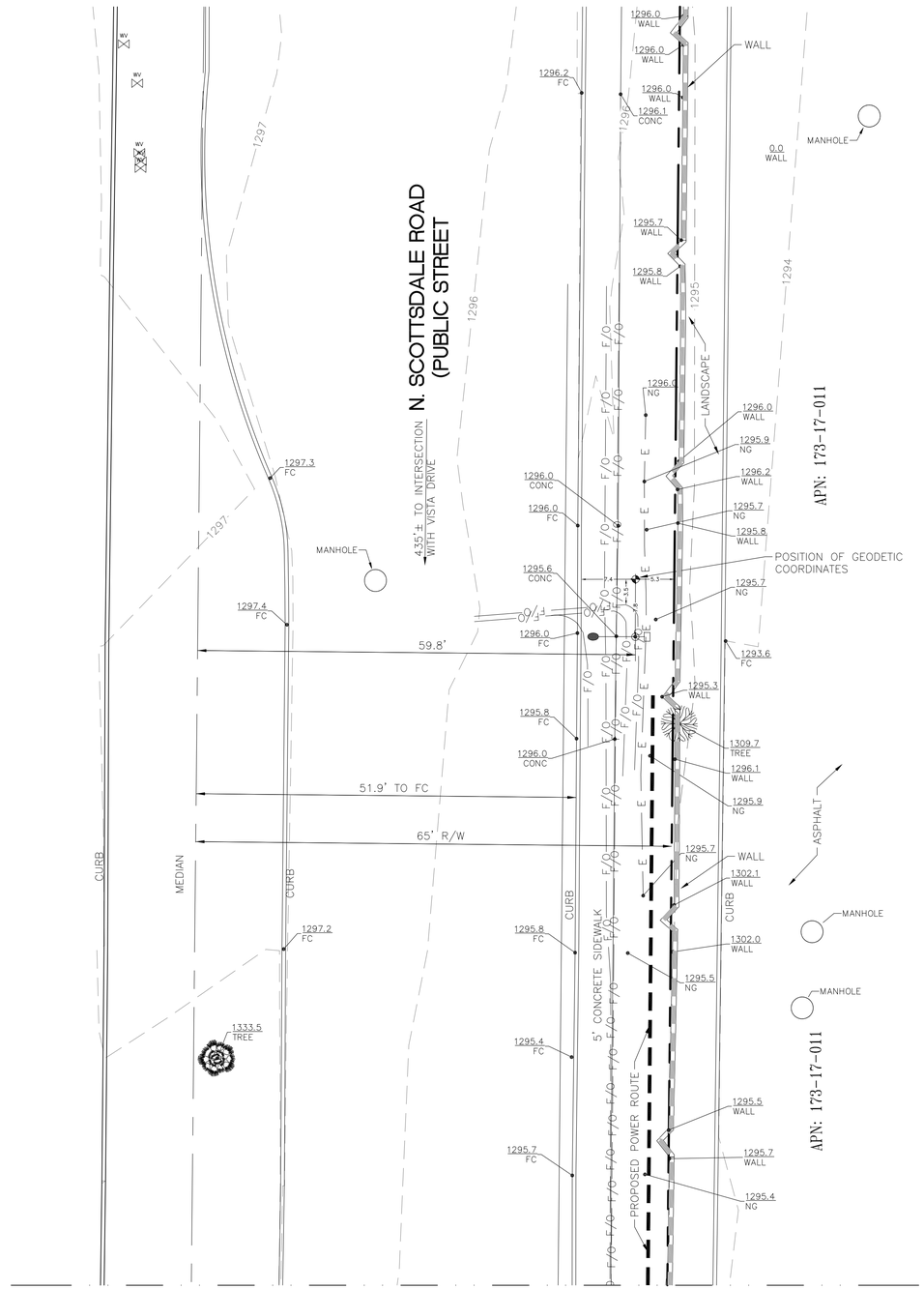
LESSOR'S LEGAL DESCRIPTION
PARADISE VALLEY RIGHT OF WAY
ADJACENT TO APN: 173-17-011



STREET LIGHT DETAIL N.T.S.
(SEE SHEET S1 AND A-3 FOR THE PROPOSED STREETLIGHT DETAIL AND ELEVATIONS)

LEGEND
CMU	CONCRETE MASONRY UNIT		STREET LIGHT
CONC	CONCRETE		POSITION OF GEODETIC COORDINATES
R/W	RIGHT OF WAY	XXXX.X NG	SPOT ELEVATION
FC	FACE OF CURB		TREE
NG	NATURAL GRADE		PALM TREE
WV	WATER VALVE	E	ELECTRIC LINE
Oxx	UTILITY MANHOLE	W	WATER LINES
		GAS	GAS LINES
		F/O	FIBER OPTIC LINES
			CMU WALL
			CURBLINES
			STREET CENTERLINES
			RIGHT OF WAY LINES
			MAJOR CONTOUR INTERVAL
			MINOR CONTOUR INTERVAL

POSITION OF GEODETIC COORDINATES
LATITUDE 33° 30' 50.20" (33.513944°) NORTH (NAD83)
LONGITUDE 111° 55' 33.01" (-111.925836°)WEST(NAD83)
GROUND ELEVATION @ 1295.11' (NAVD88)



SEE SHEET 2

at&t Mobility

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

PHX01_008_A

5401 N. SCOTTSDALE ROAD
SCOTTSDALE, AZ 85250

MARICOPA COUNTY

ISSUED FOR:

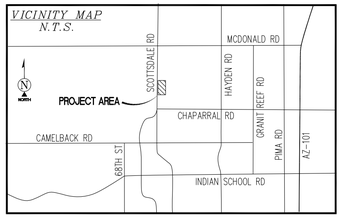
REV	DATE	DRWN	DESCRIPTION	DES./QA
A	05/25/18	DO	BORING ROUTE	SB
B	06/12/20	SB	NOTES (C)	SB

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

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
63660
SARAH A. BURGI
Date Signed 06-12-20
ARIZONA U.S.A.

SHEET NUMBER: SV-1

REVISION: B

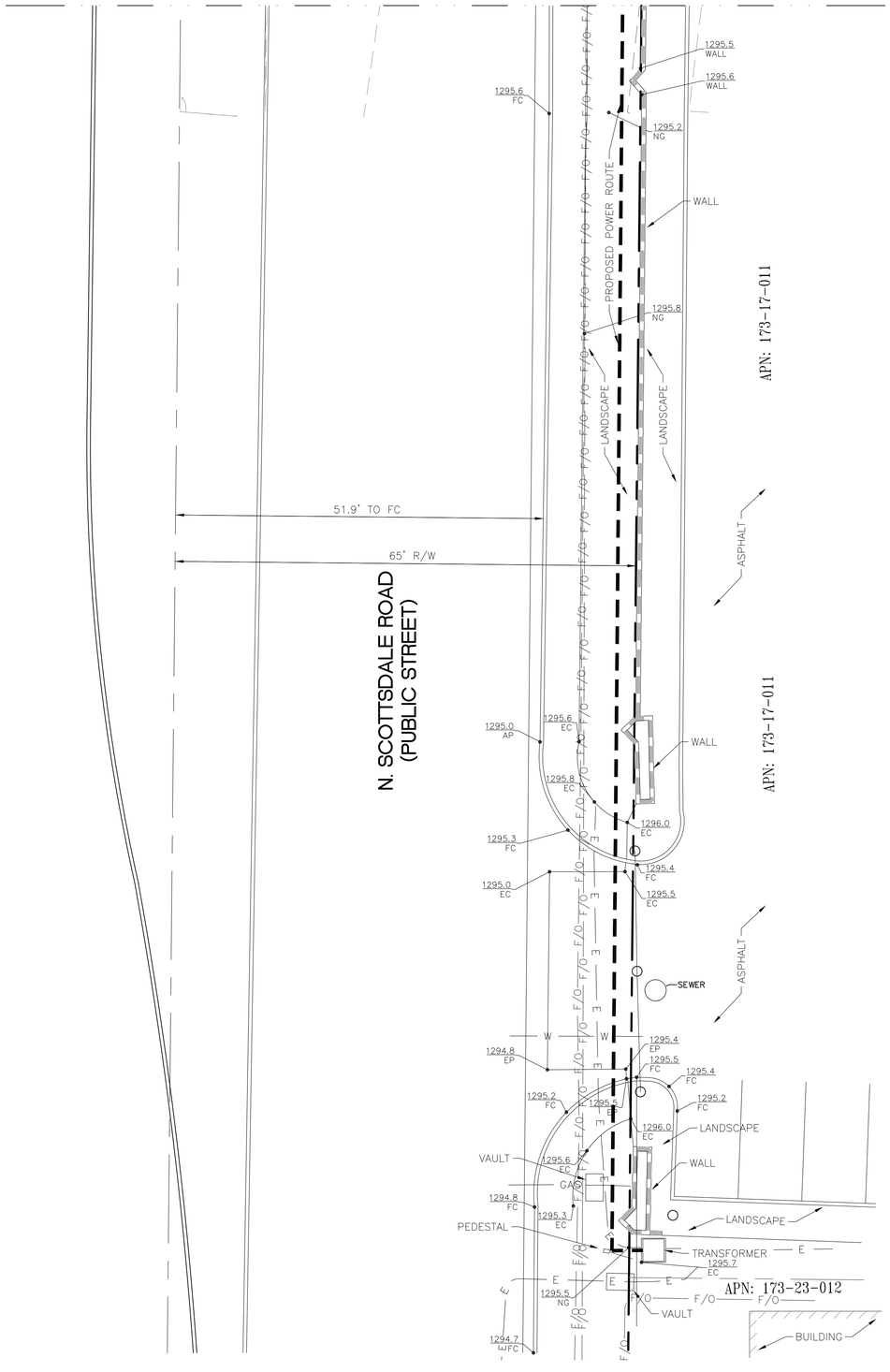


SURVEY DATE
01/05/2018 AND 05/17/2018

LEGEND

CMU	CONCRETE MASONRY UNIT		STREET LIGHT
CONC	CONCRETE		POSITION OF GEODETIC COORDINATES
R/W	RIGHT OF WAY	XXXX	SPOT ELEVATION
FC	FACE OF CURB		TREE
NG	NATURAL GRADE		PALM TREE
	WATER VALVE	E	ELECTRIC LINE
Oxx	UTILITY MANHOLE	W	WATER LINES
		GAS	GAS LINES
		F/O	FIBER OPTIC LINES
			CMU WALL
			CURBLINES
			STREET CENTERLINES
			RIGHT OF WAY LINES
			MAJOR CONTOUR INTERVAL
			MINOR CONTOUR INTERVAL

SEE SHEET 1



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REGISTERED LAND SURVEYOR
CERTIFICATE NO.
63660
SARAH A.
BURGI
Date Signed 06-12-20
ARIZONA U.S.A.

SHEET NUMBER: SV-2

REVISION: B