



COCHISE COUNTY COMMUNITY DEVELOPMENT

"Public Programs...Personal Service"

APPLICATION FOR VARIANCE

DESIRING A VARIANCE FROM THE TERMS OF THE COCHISE COUNTY ZONING REGULATIONS:

TO THE HONORABLE BOARD OF ADJUSTMENT, DISTRICT 3.

I (we), the undersigned, hereby petition the Cochise County Board of Adjustment, District 3

to grant a variance from the terms of the Cochise County Zoning Regulations as follows:

(Note: Complete all the following items. If necessary, attach additional sheets.)

1. Parcel Number: 106-712-291A
2. Address of parcel: 430 N 7th Street, Sierra Vista, AZ 85635
3. Area of Parcel (to nearest tenth of an acre): 0.9 acres
4. Zoning District designation of Parcel: GB - general business
5. Describe existing uses of the parcel and the size and location of existing structures and buildings on it.
Parcel is improved with an approximate 8,500 sf building, paved parking area and ancillary
improvements including a free standing sign.
6. Describe all proposed uses or structures, which are to be placed on the property.
All existing improvements will remain. The application involves the addition of a small cell
wireless facility attached to a replacement free standing sign, 38 inch tall cabinet and electric
meter to be installed at the front of the parcel.
7. State the specific nature of the variance or variances sought.
A variance reducing the fall distance from the tower height of 40 feet to 24 feet. A variance
reducing the accommodation of two providers to one provider. The ordinance does not consider
new technology in the wireless industry nor existing Arizona State Legislation.

8. A variance may be granted only when, due to any peculiar situation surrounding a condition of a specific piece of property, including unusual geographic or topographic conditions, strict application of the Zoning Regulations would result in an unnecessary hardship to the property owner. In granting variances, however, the general intent & purpose of the Zoning Regulations will be preserved (See attached Section 2103.02 on variances). Describe the reasons for requesting the variance and attach any documents necessary to demonstrate compliance with the provisions cited above.

The ordinance requires 1) the fall zone must be equal to the height of tower and not go beyond the parcel boundaries or right-of-way per 1813.04; and 2) per 1813.02 two providers must be accommodated on the tower. Existing zoning regulations do not address small wireless facilities, but treat all wireless facilities as large towers.

9. State why the variance would not cause injury to or impair the rights of surrounding property owners. Identify conditions you propose, if any, to minimize the impact on surrounding properties. It shall be the responsibility of the Applicant to submit any studies and/or data necessary to demonstrate the effectiveness of the alternative conditions.

The ordinance does not address Small Wireless Facilities in a manner consistent with the Arizona Revised Statutes Title 11 Chapter 13, which requires jurisdictions to permit small wireless facilities in the right-of-way without requirements for setbacks.

Please see the attached pages for the complete explanation.

10. List the name and address of all owners of the Parcel(s) for which the variance is sought.

PROPERTY OWNER

MAIL ADDRESS

LY-SAN PROPERTIES 9320 N Grizzly Flats Pl, Tucson, AZ 85742

The undersigned hereby certifies and declares that to the best of his/her knowledge and belief the data submitted on and attached to this application for a variance from the terms of the Cochise County Zoning Regulations are true and correct.

SIGNATURE OF PETITIONER

ADDRESS

DATE

10245 e via linda ste 2111. Scottsdale. AZ 85258 4/9/19

APPLICANT'S PHONE NUMBER 602-620-0866

APPLICANT'S EMAIL ADDRESS linda.grice@ydcoffice.com

Note: Each application shall be accompanied by an accurate site plan showing the parcel of land and the existing and proposed structures and buildings on it, and shall be accompanied by a check in the amount of three hundred dollars (\$300) payable to the Cochise County Treasurer. Return to the Cochise County Planning Department, 1415 Melody Lane, Building E, Bisbee, Arizona, 85603.

2103.02 Variances

The Board of Adjustment may grant a variance from the terms of these Zoning Regulations when, owing to peculiar conditions, a strict interpretation would work an unnecessary hardship, if in granting such variance the general intent and purposes of the Zoning Regulations will be preserved. It shall be the responsibility of the applicant to submit any studies and/or data necessary to demonstrate the effectiveness of the alternative conditions.

These zoning regulations are generally intended to yield results that are in compliance with all other applicable laws. A request for a "reasonable accommodation" in these regulations, pursuant to any federal or state housing law or other similar legislation, as may be necessary to afford an equal opportunity to housing under any such law, shall be considered to be an appropriate condition for a variance from the strict application of these zoning regulations. The Board of Adjustment is authorized to grant any such variance, to the extent that any such accommodation is required pursuant to any applicable state or federal law.

Any decision of the Board of Adjustment allowing a variance shall be considered for revocation by the Board of Adjustment if substantial construction, in accordance with the plans for which such variance was granted, has not been initiated within 12 months of the date of approval, building permit issuance, or if judicial proceeding to review the Board of Adjustment's decision has been instituted, 12 months from the date of entry of the final order in such proceedings, including appeals. Additionally, if any of the conditions of the variance approval are not complied with within 12 months or within the time period set by the Board, it shall be revoked after 30 days notice to the owner and applicant, unless a request for a review hearing before the Board of Adjustment is made by the applicant within this 30 day appeal period. The Board of Adjustment may grant reasonable extensions to the time limits upon a hearing pursuant to a timely written request by the applicant.

REVISED Attachment to Application for a Variance for a Small Wireless Facility

The requested variance is for a waiver of both the 1) requirement for a wireless tower to be setback from the property line or right-of way a distance equal to the height of the tower, and 2) the requirement for the tower to accommodate two providers.

First Variance - Property Setback

The basis for approving the request is derived from recent Arizona state legislation pertaining to small wireless facilities (SWF).

Arizona Revised Statutes Chapter 11 Title 13 defines a small wireless facility as a wireless facility that meets both of the following qualifications: (a) all antennas are located inside an enclosure of not more than six cubic feet in volume or, in the case of an antenna that has exposed elements, the antenna and all of the antenna's exposed elements could fit within an imaginary enclosure of not more than six cubic feet in volume. (b) all other wireless equipment associated with the facility is cumulatively not more than twenty-eight cubic feet in volume, or fifty cubic feet in volume if the equipment was ground mounted before August 9, 2017. The following types of associated ancillary equipment are not included in the calculation of equipment volume pursuant to this subdivision (i) and electric meter (ii) concealment elements (iii) a telecommunications demarcation box (iv) grounding equipment (v) a power transfer switch (vi) a cut-off switch (vii) vertical cable runs for the connection of power and other services.

The proposed small wireless facility meets the small wireless facility qualifications as (a) the antenna volume is calculated as 55" (h) x 11.9" (w) x 7.1" (d) x 2 antennas yields 2.7 cubic feet, which is less than the required 6 cubic feet; and (b) the other wireless equipment is 25" (w) x 34" (d) x 38" (h) which equates to 18.7 cubic feet, which is less than the required 28 cubic feet. The proposed pole replacement and wireless facilities meet the criteria of a SWF.

The same statute indicates, "the county may adopt reasonable zoning requirements that are applicable only to the installation, modification or replacement of a utility pole or the collocation of a small wireless facility on a utility pole or a wireless support structure and that reflect sound zoning and planning."

The existing Cochise County Ordinance 1813.04 requires a wireless support structure be set back the height of the tower from the right-of-way when placed on private property. The setback distance in the current ordinance is incongruent with the statute, as the statute provides SWF on utility poles or wireless support structures be a permitted use in the right-of-way with out zoning review and approval. The proposed support structure (sans the signage) would be a permitted use if placed in the right-of-way.

Also note, the applicant will be providing a sealed statement of a registered engineer demonstrating that the wireless support structure is structurally sound and able to support the proposed small wireless facility along with all attached signage.

Please approve the request for the setback variances.

REVISED Attachment to Application for a Variance for a Small Wireless Facility

Second Variance – tower to accommodate 2 providers

The proposed tower will accommodate 2 providers. The site plan drawings have been updated to show the second provider antenna installation location.

Please approve the request for the requirement for the tower to accommodate two providers.



SITE NAME: AZ6_VISTA-HALL_SC
(SMALL CELL)



SITE PHOTO

SHEET INDEX

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CLIENT

VERIZON WIRELESS
126 W. GEMINI DR.
TEMPE, ARIZONA, 85283
CONTACT: DAN LIVINGSTON
PHONE: 805-660-5770

PROPERTY OWNER

SV FOOD MART
430 N. 7TH STREET
SIERRA VISTA, AZ 85635
CONTACT: MR. LEE
PHONE: (520) 861-6325

SITE ACQUISITION

YOUNG DESIGN CORP.
10245 E. VIA LINDA, SUITE 211
SCOTTSDALE, ARIZONA, 85258
CONTACT: LINDA GRICE
PHONE: (602) 620-0866

ARCHITECT

YOUNG DESIGN CORP.
10245 E. VIA LINDA, SUITE 211
SCOTTSDALE, ARIZONA, 85258
CONTACT: MATT YOUNG
PHONE: (480) 451-9609
FAX: (480) 451-9608

SURVEYOR

RLF CONSULTING
1214 N. STADEM DR.
TEMPE, AZ, 85281
CONTACT: RYAN FIDLER
PHONE: (480) 445-9189

PROJECT DATA

LEASEE: VERIZON WIRELESS
126 W. GEMINI DR.
TEMPE, ARIZONA, 85283

ZONING: GB

APN: 106-712-291A

JURISDICTION: COCHISE COUNTY

BUILDING CODES: 2012 I.B.C.
2014 N.E.C.
2012 I.M.C.
2012 I.F.C.

EQUIPMENT VOLUME DATA

ANTENNA VOLUME CALCULATION:
55"(H)X11.9"(W)X7.1"(D) = 4646.95 CU IN
4646.95 CU IN / 1728 = 2.7 CU FT (EA ANTENNA)
2 ANTENNAS = 5.4 CU FT

EQUIPMENT CABINET VOLUME CALCULATION:
25"(W) X 34"(D) X 38"(H) = 32,300 CU IN
32,300 CU IN / 1728 = 18.7 CU FT

PROJECT DESCRIPTION

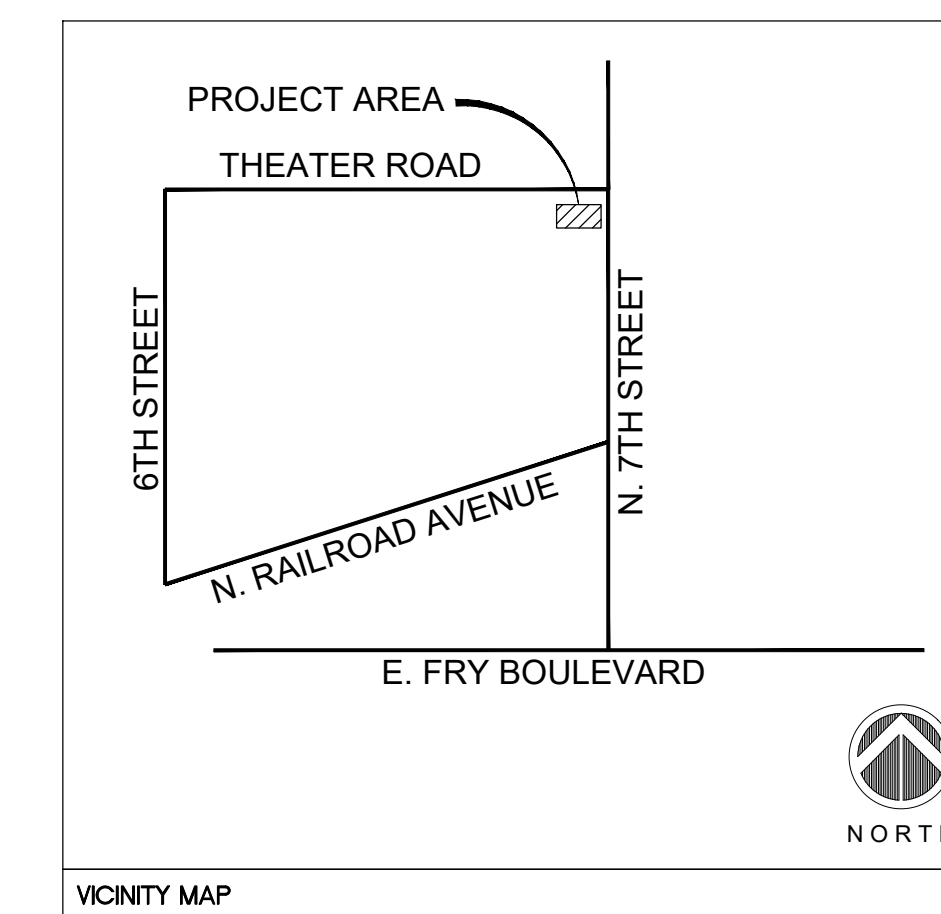
THE PROJECT CONSISTS OF THE INSTALLATION OF (2) ANTENNAS ON A REPLACEMENT SIGNAGE POLE AND THE INSTALLATION OF A GROUND MOUNTED EQUIPMENT CABINET. FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.

SITE COORDINATES

LATITUDE: 31° 33' 35.742" N
LONGITUDE: 110° 17' 29.340" W
GROUND ELEVATION: 4588.6' A.M.S.L.

SITE DIRECTIONS

FROM VERIZON OFFICE IN TEMPE, ARIZONA: HEAD WEST ON W. GEMINI DR TOWARD S. ASH AVE. TURN LEFT ONTO S. ASH AVE. TURN RIGHT ONTO W. GUADALUPE RD. TURN LEFT AT THE 1ST CROSS STREET ONTO S. KYRENE RD. TURN RIGHT ONTO W. GROVE PKWY. CONTINUE ONTO S. PRIEST DR. TURN RIGHT ONTO W. ELLIOT RD. TURN LEFT TO MERGE ONTO I-10 E TOWARD TUCSON. MERGE ONTO I-10 E. TAKE EXIT 302 FOR AZ-90 S TOWARD FT. HUACHUCA / SIERRA VISTA. TURN RIGHT ONTO AZ-90 S / ROUTE 90 S / STATE 90 S. TURN RIGHT ONTO 7TH ST.



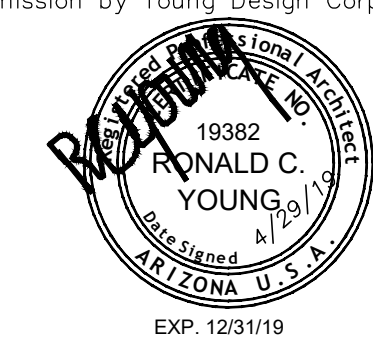
CLIENT

verizon
126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY
Young design corp
architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

SEAL
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PRELIMINARY UNLESS SIGNED

NO.	DATE	DESCRIPTION
0	1/10/2019	FINALS
1	4/29/2019	REVISIONS

ARCHITECTS JOB NO.
YDC-6234

PROJECT INFORMATION
AZ6_VISTA-HALL_SC
430 N. 7TH STREET
SIERRA VISTA, AZ 85635

SHEET TITLE
TITLE SHEET

JURISDICTION APPROVAL

SHEET NUMBER
T-1

GENERAL NOTES:

DRAWINGS ARE NOT TO BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. THIS SET OF DOCUMENTS IS INTENDED TO BE USED FOR DIAGRAMMATIC PURPOSES ONLY. UNLESS NOTED OTHERWISE, THE CONTRACTOR'S SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR, AND ANY REQUIREMENTS DEEMED NECESSARY TO COMPLETE PROJECT AS DESCRIBED IN THE DRAWINGS AND OWNER'S PROJECT MANUAL.

PRIOR TO THE SUBMISSION OF BIDS, CONTRACTORS INVOLVED SHALL VISIT THE JOB SITE TO FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE NEW PROJECT. CONTRACTORS SHALL VISIT THE CONSTRUCTION SITE WITH THE CONSULTANT PRIOR TO CONTRACT DOCUMENTS TO VERIFY FIELD CONDITIONS AND CONFIRM THAT THE PROJECT WILL BE ACCOMPLISHED AS SHOWN. PRIOR TO PROCEEDING WITH CONSTRUCTION, ANY ERRORS, OMISSIONS, OR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER VERBALLY AND IN WRITING.

THE ARCHITECT/ENGINEERS HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SAID NOT CONTRACTOR FROM CONTRACT DOCUMENTS TO THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO SUBMISSION OF CONTRACT PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK, UNLESS DIRECTED OTHERWISE.

THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES FOR COORDINATING ALL PORTIONS OF THE PROJECT.

THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

ALL WORK PERFORMED ON THE PROJECT AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK.

GENERAL CONTRACTOR SHALL PROVIDE, AT THE PROJECT SITE, A FULL SET OF CONSTRUCTION DOCUMENTS UPDATED WITH THE LATEST REVISIONS AND ADDENDA OR CLARIFICATIONS FOR USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT. THIS SET IS A VALID CONTRACT DOCUMENT ONLY IF THE TITLE SHEET IS STAMPED "FOR CONSTRUCTION" AND EACH SUCCESSIVE SHEET BEARS THE ARCHITECT'S SIGNED WET STAMP.

THE STRUCTURAL COMPONENTS OF ADJACENT CONSTRUCTION OR FACILITIES ARE NOT TO BE ALTERED BY THIS CONSTRUCTION PROJECT UNLESS NOTED OTHERWISE.

SEAL ALL PENETRATIONS THROUGH FIRE-RATED AREAS WITH U.L. LISTED OR FIRE MARSHALL APPROVED MATERIALS IF APPLICABLE TO THIS FACILITY AND OR PROJECT SITE.

CONTRACTOR TO PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF PROJECT AREA DURING CONSTRUCTION.

CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC. DURING CONSTRUCTION. UPON COMPLETION OF WORK, CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION OR ABOUT THE PROPERTY.

CONTRACTOR SHALL KEEP GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, AND RUBBISH. CONTRACTOR SHALL REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OR PREMISES. SITE SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.

THE GENERAL CONTRACTOR SHALL RECEIVE WRITTEN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO ANY WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL PERFORM WORK DURING OWNER'S PREFERRED HOURS TO AVOID DISTURBING NORMAL BUSINESS.

THE CONTRACTOR SHALL PROVIDE COMPANY WITH PROPER INSURANCE CERTIFICATES NAMING (COMPANY), AS ADDITIONAL INSURED, AND (COMPANY) PROOF OF LICENSE(S) AND PE & PD INSURANCE.

CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL INSPECTIONS.

CAUTION! CALL BEFORE YOU DIG! BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE-CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION. 1-800-332-2344.

CONTRACTOR TO DOCUMENT ALL WORK PERFORMED WITH PHOTOGRAPHS AND SUBMIT TO (COMPANY) ALONG WITH REDLINED CONSTRUCTION SET.

CONTRACTOR TO DOCUMENT ALL CHANGES MADE IN THE FIELD BY MARKING UP (REDLINING) THE APPROVED CONSTRUCTION SET AND SUBMITTING THE REDLINED SET TO (COMPANY) REPRESENTATIVE UPON COMPLETION.

FOR COLLOCATION SITES: CONTACT TOWER OWNER REPRESENTATIVE FOR PARTICIPATION IN BID WALK.

GENERAL CONTRACTOR IS TO COORDINATE ALL POWER INSTALLATION WITH POWER COMPANY AS REQUIRED. CONTRACTOR TO REPORT POWER INSTALLATION COORDINATION SOLUTION(S) TO NETWORK CARRIER REPRESENTATIVE, PROJECT CONSTRUCTION MANAGER AND ARCHITECT.

ANY SUBSTITUTIONS OF MATERIALS AND/OR EQUIPMENT, MUST BE APPROVED BY (COMPANY) CONSTRUCTION MANAGER.

IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE PENETRATION OF EXISTING ROOFING MATERIALS OCCUR, THE GENERAL CONTRACTOR SHALL COORDINATE WITH BUILDING OWNER AND BUILDING ROOFING CONTRACTOR OF RECORD FOR INSTALLATION, PATCH, REPAIR OR ANY AUGMENTATION TO THE ROOF, AND HAVE THE WORK GUARANTEED UNDER THE ROOFING CONTRACTOR'S WARRANTY FOR MOISTURE PENETRATION OR AND OTHER FUTURE BREACH OF ROOFING INTEGRITY.

CONTRACTOR SHALL SUPERVISE AND DIRECT ALL WORK, AND PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE.

CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK UNDER THE CONTRACT.

CONTRACTOR SHALL PROTECT ALL EXISTING IMPROVEMENTS AND FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY OCCUR DURING CONSTRUCTION TO SATISFACTION OF VERIZON WIRELESS WIRELESS REPRESENTATIVE.

CONTRACTOR SHALL KEEP THE CONSTRUCTION SITE CLEAN, HAZARD FREE AND DISPOSE OF ALL DIRT, DEBRIS DURING CONSTRUCTION. LEAVE PREMISES IN A VACUUM AND BROOM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST, SMUDGES OF ANY NATURE AND IN WORKING ORDER UNTIL ACCEPTANCE BY VERIZON WIRELESS WIRELESS AND PROPERTY OWNER.

IN THE CASE OF ROOFTOP SOLUTIONS WITH THE INSTALLATION OF ANTENNAS WITHIN CONCEALED (SHROUDED) SUPPORT FRAMES OR TRIPODS, THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE FRP DESIGNER/FABRICATOR TO ENSURE THAT THE FINAL FRP SHROUD IS SIMILATING (IN APPEARANCE) DESIGNATED EXISTING EXTERIOR BUILDING FACADE MATERIALS, TEXTURES, AND COLORS. THE CONTRACTOR SHALL FURTHERMORE ENSURE THE USE OF COUNTERSUNK FASTENERS IN ALL FRP CONSTRUCTION, WHEN PHOTOSIMULATIONS ARE PROVIDED, THE CONTRACTOR SHALL ENSURE THAT FINAL CONSTRUCTION REPRESENTS WHAT IS INDICATED IN PHOTOSIMULATION. SHOP DRAWINGS SHALL BE PROVIDED TO THE GENERAL CONTRACTOR, CONSTRUCTION COORDINATOR, AND ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.

IN THE CASE OF ROOFTOP SOLUTIONS FOR EQUIPMENT AND/OR ANTENNA FRAMES WHERE ANCHORING TO A CONCRETE ROOF SLAB IS REQUIRED, CONTRACTORS SHALL CONFIRM (PRIOR TO SUBMITTING BID) WITH CONSULTING CONSTRUCTION COORDINATOR AND ARCHITECT THE PRESENCE OF POST TENSION TENDONS WITHIN THE ROOF SLAB - RESULTING FROM AN UNDOCUMENTED DESIGN CHANGE IN THE EXISTING BUILDING "AS-BUILT" DRAWING SET". HAVING INDICATED AN ORIGINAL DESIGN SOLUTION OF REINFORCED CONCRETE W/ EMBEDDED STEEL REBAR. IN THE EVENT POST TENSION SLAB SOLUTION IS PRESENT, CONTRACTOR SHALL INCLUDE PROVISIONS FOR X-RAY PROCEDURES (INCLUDED IN BID) FOR ALL PENETRATION AREAS WHERE ANCHORING OCCURS.

GENERAL & SUB CONTRACTORS SHALL USE STAINLESS STEEL METAL LOCKING TIES FOR ALL CABLE TRAY TIE DOWNS AND ALL OTHER GENERAL TIE DOWNS (WHERE APPLICABLE). PLASTIC ZIP TIES SHALL NOT BE PERMITTED FOR USE ON VERIZON WIRELESS WIRELESS PROJECTS. RECOMMENDED MANUFACTURE SHALL BE: PANOUT CORP. METAL LOCKING TIES MODEL NO. MLT4S-CP UNDER SERIES-304 (OR EQUAL), PANOUT PRODUCT DISTRIBUTED BY TRIARC OF TACOMA, WA.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR RED-LINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. FOLLOWING THE FINAL INSPECTION BY VERIZON WIRELESS WIRELESS, THE CONTRACTOR SHALL PROVIDE VERIZON WIRELESS WIRELESS WITH ONE (1) COPY OF ALL RED-LINED DRAWINGS. NOTE ALL OF THE FOLLOWING:

- MODIFICATIONS OF ANY SCHEDULE
- MODIFICATION OF ANY DIAGRAM
- SUBSTITUTIONS AND/OR MODEL NUMBERS OF EQUIPMENT

VERIFY ALL FINAL EQUIPMENT WITH VERIZON WIRELESS WIRELESS REPRESENTATIVE. ALL TELEPHONE/RADIO EQUIPMENT LAYOUT, SPECIFICATIONS, PERFORMANCE INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY VERIZON WIRELESS WIRELESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS RELATED TO SAID INSTALLATIONS.

STANDARD CIVIL NOTES:

ALL SITE WORK SHALL BE AS INDICATED ON THE DRAWINGS AND STIPULATED IN THE SPECIFICATIONS/PROJECT SUMMARY.

RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.

NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.

THE SUB GRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO THE CRUSHED STONE APPLICATION.

ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY ENGINEERS. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR PIER DRILLING AROUND OR NEAR UTILITIES. CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW.

ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED AND SHALL BE CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE ENGINEERS.

THE AREAS OF THE CUSTOMER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING, DRIVEWAY OR CRUSHED STONE, SHALL BE GRADED TO A UNIFORM SLOPE, FERTILIZED, SEEDDED, AND COVERED WITH MULCH AS SPECIFIED IN THE SPECIFICATION LANDSCAPE WORK.

GENERAL CONCRETE NOTES:

ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318.

CONCRETE SHALL BE MIXED, PROPORTIONED, CONVEYED AND PLACED IN ACCORDANCE WITH CHAPTER 19 OF THE CURRENT BUILDING CODE. STRENGTHS AT 28 DAYS AND MIX CRITERIA SHALL BE AS FOLLOWS.

TYPE OF CONSTRUCTION	28 DAY STRENGTHS (f'c)	W/C RATIO	MINIMUM CEMENT CONTENT PER CUBIC YARD
A. SLABS ON GRADE TOPPING SLAB CONCRETE PIERS	2,400 PSI	≤ .45	5 1/2 SACKS
B. ALL STRUCTURAL CONCRETE EXCEPT WALLS	4,000 PSI	≤ .45	6 1/2 SACKS
C. CONCRETE WALLS	4,000 PSI	≤ .45	6 1/2 SACKS

CEMENT SHALL BE ASTM C150, PORTLAND CEMENT TYPE II U.N.O.

THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE RESPONSIBLE FOR THE METHODS AND PROCEDURES OF CONCRETE PLACEMENT.

ALL CONCRETE WITH SURFACES EXPOSED TO STANDING WATER SHALL BE AIR-ENTRAINED WITH AN AIR-ENTRAINING AGENT CONFORMING TO ASTM C260, C494, C618, C899 AND C1017. TOTAL AIR CONTENT SHALL BE IN ACCORDANCE WITH TABLE 1904.2.1 OF THE CURRENT BUILDING CODE.

REINFORCING STEEL SHALL CONFORM TO ASTM A615 (INCLUDING SUPPLEMENT S1), GRADE 60, fy=60,000 PSI. EXCEPTIONS: ANY BARS SPECIFICALLY SO NOTED ON THE DRAWINGS SHALL BE GRADE 40, fy=40,000 PSI. GRADE 60 REINFORCING BARS INDICATED ON DRAWINGS TO BE WELDED SHALL CONFORM TO ASTM A706. REINFORCING COMPLYING WITH ASTM A615(S1) MAY BE WELDED ONLY IF MATERIAL PROPERTY REPORTS INDICATING CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D14 ARE SUBMITTED.

REINFORCING STEEL SHALL BE DETAILED (INCLUDING HOOKS AND BENDS) IN ACCORDANCE WITH ACI 315 AND 318. LAP ALL CONTINUOUS REINFORCEMENT AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". PROVIDE CORNER BARS AT ALL WALL AND FOOTING INTERSECTIONS. LAP CORNER BARS AT LEAST 30 BAR DIAMETERS OR A MINIMUM OF 2'-0". LAP ADJACENT MATS OF WELDED WIRE FABRIC A MINIMUM OF 8' AT SIDES AND ENDS.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185.

SPIRAL REINFORCEMENT SHALL BE PLAIN WIRE CONFORMING TO ASTM A615, GRADE 60, fy=60,000 PSI.

NO BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL BE FIELD BENT UNLESS SPECIFICALLY SO DETAILED OR APPROVED BY THE CONSULTANT.

CONCRETE PROTECTION (COVER) FOR REINFORCING STEEL SHALL BE AS FOLLOWS:

FOOTINGS AND OTHER UNFORMED SURFACES, EARTH FACE	3"
FORMED SURFACES EXPOSED TO EARTH OR WEATHER	(#6 BARS OR LARGER) 2" 1 1/2"
SLABS AND WALLS (INTERIOR FACE)	(#5 BARS OR SMALLER) 3/4"

BARS SHALL BE SUPPORTED ON CHAIRS OR DOBIE BLOCKS.

ANCHOR BOLTS TO CONFORM TO ASTM A307.

NON-SHRINK GROUT SHALL BE FURNISHED BY AN APPROVED MANUFACTURER AND SHALL BE MIXED AND PLACED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED RECOMMENDATIONS. GROUT STRENGTH SHALL BE AT LEAST EQUAL TO THE MATERIAL ON WHICH IT IS PLACED (3,000 PSI MINIMUM).

ALL EXPANSION ANCHORS TO BE HILTI BRAND. ADHESIVE ANCHORS REQUIRE TESTING TO CONFIRM CAPACITY UNLESS WAIVED BY ENGINEER.

STRUCTURAL STEEL NOTES:

SHOP DRAWINGS FOR STRUCTURAL STEEL SHALL BE SUBMITTED TO THE CONSULTANT FOR REVIEW PRIOR TO FABRICATION.

STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION (INCLUDING FIELD WELDING, HIGH STRENGTH FIELD BOLTING, EXPANSION BOLTS, AND THREADED EXPANSION ANCHORS) SHALL BE BASED ON THE A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" LATEST EDITION. SUPERVISION SHALL BE IN ACCORDANCE WITH CURRENT BUILDING CODE, BY A QUALIFIED TESTING AGENCY DESIGNATED BY THE CONSULTANT. THE CONSULTANT SHALL BE FURNISHED WITH A COPY OF ALL INSPECTION REPORTS AND TEST RESULTS.

STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

A. PLATES, SHAPES, ANGLES, AND RODS	ASTM A36, Fy 36 KSI
B. SPECIAL SHAPES AND PLATES	ASTM A572, Fy 50 KSI
C. PIPE COLUMNS	ASTM A53, Fy 35 KSI
D. STRUCTURAL TUBING	ASTM A500, Fy 46 KSI
E. ANCHOR BOLTS	ASTM A307
F. CONNECTION BOLTS	ASTM A325 TWIST-OFF-TYPE

ALL MATERIAL TO BE HOT DIPPED GALVANIZED AFTER FABRICATION PER A123/A123M-00.

ALL WELDING SHALL BE IN CONFORMANCE WITH A.I.S.C. AND AWS STANDARDS AND SHALL BE PERFORMED BY A.B.C. CERTIFIED WELDERS USING E70 XX ELECTRODES. ONLY PREQUALIFIED WELDS (AS DEFINED BY AWS) SHALL BE USED. WELDING OF GRADE 60 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING LOW HYDROGEN ELECTRODES. WELDING OF GRADE 40 REINFORCING BARS (IF REQUIRED) SHALL BE PERFORMED USING E70 XX ELECTRODES. WELDING WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED. SEE REINFORCING NOTE FOR MATERIAL REQUIREMENTS OF WELDED BARS.

COLD-FORMED STEEL FRAMING MEMBERS SHALL BE OF THE SHAPE, SIZE, AND GAGE SHOWN ON THE PLANS. PROVIDE MINIMUM SECTION PROPERTIES INDICATED. ALL COLD-FORMED STEEL FRAMING SHALL CONFORM TO THE A.I.S.C. "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."

BOLTED CONNECTIONS SHALL USE BEARING TYPE ASTM A325 BOLTS (3/4" DIA.) AND SHALL HAVE A MINIMUM OF TWO BOLTS UNLESS NOTED OTHERWISE.

NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING MAY USE 5/8" DIA. ASTM A307 BOLTS UNLESS NOTED OTHERWISE.

ALL STEEL WORK SHALL BE PAINTED IN ACCORDANCE WITH THE DESIGN & CONSTRUCTION SPECIFICATION AND IN ACCORDANCE WITH ASTM A36 UNLESS NOTED OTHERWISE.

ALL WELDS TO BE 1/4" FILLET UNLESS NOTED OTHERWISE.

TOUCH UP ALL FIELD DRILLING AND WELDING WITH 2 COATS OF GALVAON (ZINC RICH PAINT) OR APPROVED EQUAL.

MASONRY

WORK

PROVIDE EVERYTHING REQUIRED TO COMPLETE UNIT MASONRY AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

QUALITY STANDARDS

PROVIDE EXPERIENCED, WELL-TRAINED WORKERS COMPETENT TO COMPLETE THE WORK AS SPECIFIED.

MATERIALS

MORTAR AS PER ASTM C270. TYPE S. ONE PART PORTLAND CEMENT, ONE-HALF PART LIME. NOT MORE THAN FOUR AND ONE-HALF PARTS SAND, MEASURED DAMP AND LOOSE. COMPRESSIVE STRENGTH OF 1800 PSI AT 28 DAYS.

MORTAR MATERIALS: PORTLAND CEMENT, TYPE I OR II, AGGREGATE, CLEAN, SHARP SAND, LIME, QUICK LIME ASTM C5. HYDRATED LIME, TYPE S. WATER, CLEAN AND POTABLE.

PROVIDE CONCRETE UNIT MASONRY WHERE SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN AS MANUFACTURED BY:

CONCRETE UNIT MASONRY UNITS SHALL COMPLY WITH ASTM STANDARDS: CONCRETE BRICKS, ASTM C55. HOLLOW LOAD-BEARING UNITS, ASTM C90. HOLLOW NON-LOAD-BEARING UNITS, ASTM C129. SOLID LOAD-BEARING UNITS, ASTM C145.

GRADES AND TYPES: HOLLOW, LOAD-BEARING UNITS GRADE N, TYPE I, MEDIUM WEIGHT FOR EXTERIOR, HOLLOW, LOAD-BEARING UNITS GRADE S, TYPE II, LIGHTWEIGHT FOR INTERIOR.

GROUT SHALL BE TYPE II CEMENT CONFORMING TO ASTM C-150. AGGREGATE SHALL CONFORM TO ASTM C-144, SAND TO CONFORM TO ASTM C-404 AND LIME SHALL CONFORM TO ASTM C-207.

SEE CONCRETE SECTION THIS SPECIFICATION FOR THE REINFORCING STEEL MATERIAL REQUIREMENTS.

ACCESSORIES AND OTHER RELATED MATERIALS

PROVIDE ALL ACCESSORIES AND MATERIALS AS REQUIRED FOR COMPLETE, PROPER INSTALLATION.

UNIT MASONRY INSTALLATION AND MORTAR APPLICATION

COMPLETE THIS WORK IN A TIMELY FASHION, WITHOUT INTERFERING WITH, OR DELAYING THE WORK OF OTHER TRADES.

COMPLETE ALL WORK ACCORDING TO APPLICABLE CODES AND REGULATIONS.

COMPLETE ALL WORK ACCORDING TO THE STANDARDS AND SPECIFICATIONS OF THE MASONRY INSTITUTE OF AMERICA.

MASONRY ACCESSORIES AND REINFORCING -- INSTALLATION

INSTALL METAL TIES FOR BONDING AS PER DETAILS AND REFERENCED TRADE STANDARDS. ASSURE COMPLIANCE IN TYPES, SIZES, SPACING, DEPTH OF ANCHORING AND CORROSION RESISTANCE.

INSTALL REINFORCING AS PER DETAILS AND REFERENCED TRADE STANDARDS.

PAINTING

- THE CONTRACTOR SHALL PREPARE SURFACES, FURNISH ALL PAINT, MATERIAL, LABOR AND EQUIPMENT REQUIRED FOR THE PAINTING OF ALL SURFACES AS REQUIRED BY THE DRAWINGS AND SPECIFIED HEREIN.
- PAINTS TO BE APPLIED IN ALL WORKMANLIKE MANNER. UPON COMPLETION, REMOVE ALL MATERIALS AND DEBRIS CAUSED BY THIS CONTRACTOR, ALL HARDWARE, FLOORS, GLASS, FRAMES FIXTURES AND THE LIKE SHALL BE THOROUGHLY CLEANED OF PAINT.
- REGULATORY REQUIREMENTS: ALL MATERIALS MUST COMPLY WITH AIR POLLUTION CONTROL REGULATIONS, SUCH AS L.A. COUNTY APCD RULE 1113 AND BAY AREA PCD REG. 3.

MATERIAL SHALL BE AS INDICATED ON PAINT SCHEDULE BELOW AND DRAWINGS.

ALL STEEL COLUMNS AND MISC. METALS SHALL BE PRIMED AND PAINTED.

FIRE PREVENTION: TAKE EVERY PRECAUTION AT THE END OF THE DAY TO REMOVE OIL RAGS AND COMBUSTIBLE MATERIALS FROM THE SITE OR STORE IN METAL CONTAINER WITH TIGHT COVERS.

EXTERIOR PAINT SYSTEMS (EPS):
A. FERROUS METALS: DOORS AND FRAMES: (MDF) 1-2 MILS PER COAT FRAZEE PAINT - COLOR TO MATCH EXISTING BUILDING 1ST COAT: 664 RUST STOP 2ND COAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS 3RD COAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS.

B. ALUMINUM OR GALVANIZED STEEL: (MDF) 1-2 MILS PER COAT FRAZEE PAINT - COLOR PER PLAN 1ST COAT: 661 METAL PLAN 2ND COAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS 3RD COAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS.

C. PLASTER, CONCRETE, MASONRY: (MDF) 1-2 MILS PER COAT FRAZEE PAINT - COLOR TO MATCH EXISTING BUILDING 1ST COAT: 061 AQUA SEAL 2ND COAT: 124 MIRROGLIDE S/G 3RD COAT: SEMI-GLOSS - 124 MIRROGLIDE S/G

INTERIOR PAINT SYSTEMS (IPS):
A. GYPSUM DRYWALL (NON-EPOXY): RADIO FACILITY (MDF) 1-2 MILS PER COAT FRAZEE PAINT - COLOR TO BE WHITE 1ST COAT: 061 AQUA SEAL 2ND COAT: 124 MIRROGLIDE S/G 3RD COAT: SEMI-GLOSS - 124 MIRROGLIDE S/G

B. TELEPHONE BACKBOARD: FRAZEE PAINT - COLOR TO BE WHITE 1ST COAT: 367 FRAFLO VIC 2ND COAT: FLAT FIRE PAINT #505 BY FLANCRETE (AS SPECIFIED) 3RD COAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS OVERCOAT: 124 MIRROGLIDE S/G ACRYLIC SEMI-GLOSS (TINT TO MATCH WALL)

C. PLASTER, CONCRETE, MASONRY: (MDF) 1-2 MILS PER COAT FRAZEE PAINT - COLOR TO BE WHITE 1ST COAT: LATEX PRIMER SEALER - 065 ACRY PRIME 2ND COAT: SEMI-GLOSS - 124 MIRROGLIDE S/G 3RD COAT: SEMI-GLOSS - 124 MIRROGLIDE S/G

SIGNS

- INSTALL EMERGENCY INFORMATION PLACARD NEAR ENTRANCE GATE OF EQUIPMENT AREA (OR MOST VISIBLE PLACE ON OUTSIDE CONFINED WALL). PLACARD IS TO CONTAIN SITE NAME, SITE NUMBER, COMPANY NAME, ADDRESS INFORMATION, AND A "800" NUMBER TO DIAL IN CASE OF EMERGENCY. PLACARD IS TO CONSIST OF HIGH CONTRAST LETTERING (WHITE BACK GROUND W/ RED LETTERING) BEHIND VANDAL RESISTANT LEXAN COVER.
- INSTALL ADDRESS PLACARD NEAR ENTRANCE GATE OF EQUIPMENT AREA (OR FACING STREET OF ASSOCIATED ADDRESS). PLACARD IS TO CONTAIN 12" TALL HIGH CONTRAST LETTERING (WHITE BACK GROUND AND RED LETTERS) BEHIND VANDAL RESISTANT LEXAN COVER.

LEGEND

	NEW ANTENNA		
	EXISTING ANTENNA		GROUT OR PLASTER
	GROUND ROD		(E) BRICK
	GROUND BUS BAR		(E) MASONRY
	MECHANICAL GRND. CONN.		CONCRETE
	CADWELD		EARTH
	GROUND ACCESS WELL		GRAVEL
	ELECTRIC BOX		PLYWOOD
	TELEPHONE BOX		STUCCO
	LIGHT POLE		WOOD CONT.
	FND. MONUMENT		WOOD BLOCKING
	SPOT ELEVATION		STEEL
	FIRE HYDRANT		CENTERLINE
	REVISION		PROPERTY/LEASE LINE
	GRID REFERENCE		LEASE LINE
	DETAIL REFERENCE		GROUND CONDUCTOR
	ELEVATION REFERENCE		TELEPHONE CONDUIT
	SECTION REFERENCE		ELECTRICAL CONDUIT
			COAXIAL CABLE
			OVERHEAD SERVICE CONDUCTORS
			CHAIN LINK FENCING

CLIENT

126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY

architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

SEAL
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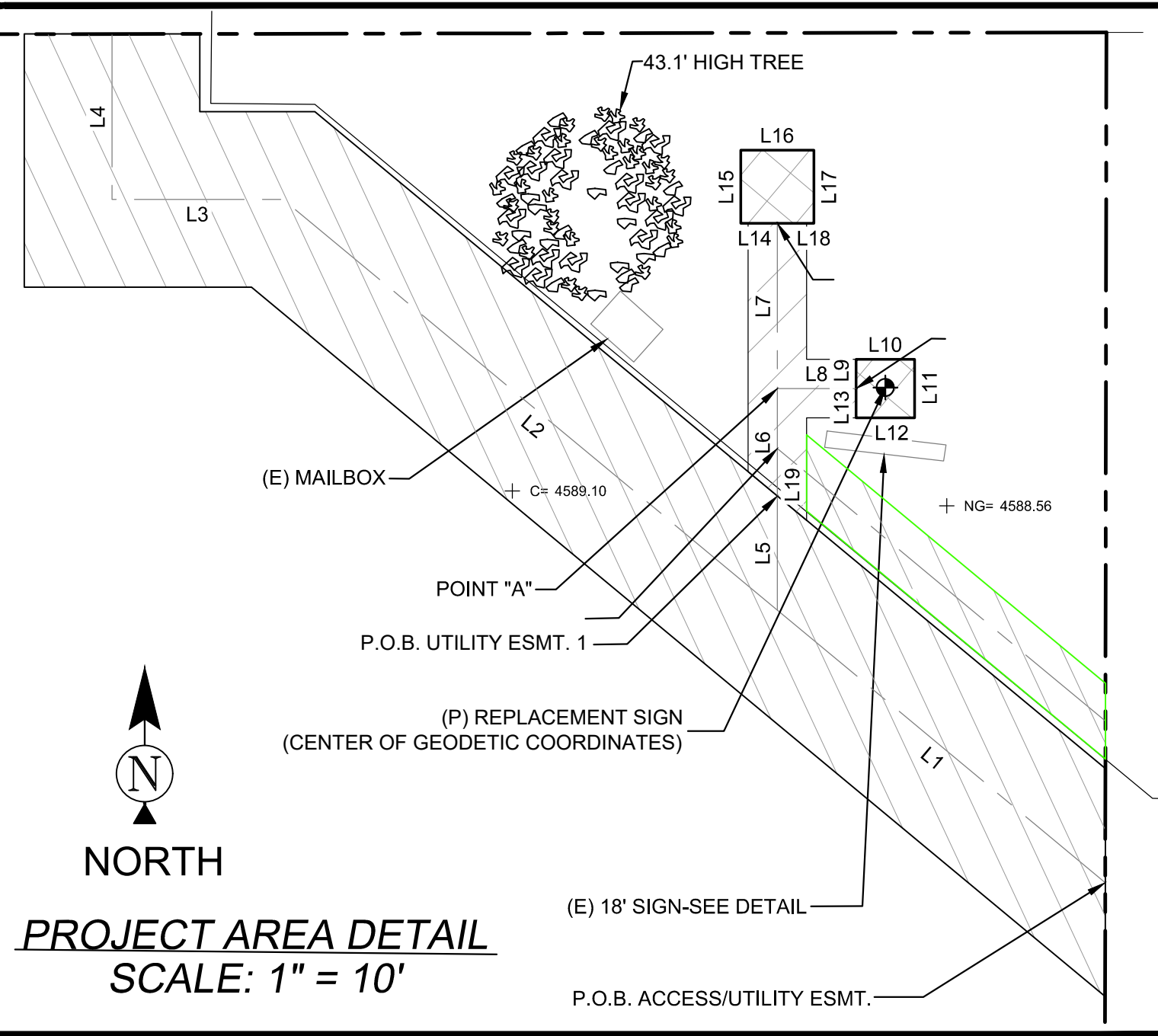
19382
RONALD C. YOUNG
Professional Engineer
State of Arizona
EXP. 12/31/19

THIS DOCUMENT CONTAINS AN ELECTRONIC SIGNATURE PURSUANT TO A.R.S. TITLE 41 AND TITLE 44. IT IS A VIOLATION FOR ANY PERSON, UNLESS UNDER THE DIRECT SUPERVISION OF THE REGISTRANT, TO MODIFY THIS DOCUMENT IN ANY WAY.

PRELIMINARY UNLESS SIGNED

NO.	DATE	DESCRIPTION
0	1/10/2019	FINALS
1	4/29/2019	REVISIONS

ARCHITECTS JOB NO.
YDC-6234



PROJECT META DATA

- ELEVATIONS SHOWN HEREON ARE REPRESENTED IN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) ESTABLISHED FROM GPS DERIVED ELLIPSOID HEIGHTS, APPLYING GEOID 09 SEPARATIONS CONSTRAINING TO NGS CORS STATIONS PROVIDED IN THE "ONLINE POSITIONING USER SERVICE" (OPUS) SOLUTION FOR THIS SPECIFIC SITE.
- BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM ARIZONA STATE PLANE COORDINATE ZONE EAST, DETERMINED BY GPS OBSERVATIONS.
- FIELD WORK FOR THIS PROJECT WAS PERFORMED ON 01/28/15.

SURVEYOR NOTES

ALL TITLE INFORMATION IS BASED UPON A COMMITMENT FOR TITLE INSURANCE PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ORDER NO.: AZ-FCOP-IMP-NA-1-14-52000809 EFFECTIVE DATE: 12/02/2014.

- SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE.
- THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.
- SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. 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

LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA;

EXCEPT THE NORTH 40.00 FEET; AND EXCEPT THE EAST 10.00 FEET.

LESSEE ACCESS/UTILITY EASEMENT LEGAL DESCRIPTION

A 12.00 FOOT WIDE STRIP OF LAND BEING A PORTION OF LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA, LYING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 34, TOWNSHIP 21 SOUTH, RANGE 21 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN COCHISE COUNTY, ARIZONA, FROM WHICH THE SOUTH EAST CORNER OF SECTION 34 BEARS SOUTH 0° 04' 18" WEST 2653.11 FEET; THENCE SOUTH 0° 04' 18" WEST ALONG THE EAST LINE OF SAID SECTION 34 700.29 FEET; THENCE NORTH 89° 55' 42" WEST, 40.00 FEET; THENCE SOUTH 00° 04' 17" WEST, 58.13 FEET TO THE POINT OF BEGINNING.

THENCE NORTH 50° 15' 50" WEST, 29.14 FEET; THENCE NORTH 50° 15' 50" WEST, 43.93 FEET; THENCE NORTH 90° 00' 00" EAST, 11.69 FEET; THENCE NORTH 00° 00' 00" EAST, 11.32 FEET TO THE POINT OF TERMINUS.

LESSEE UTILITY EASEMENT 1 LEGAL DESCRIPTION

A 4.00 FOOT WIDE STRIP OF LAND BEING A PORTION OF LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA, LYING 2.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 34, TOWNSHIP 21 SOUTH, RANGE 21 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN COCHISE COUNTY, ARIZONA, FROM WHICH THE SOUTH EAST CORNER OF SECTION 34 BEARS SOUTH 0° 04' 18" WEST 2653.11 FEET; THENCE SOUTH 0° 04' 18" WEST ALONG THE EAST LINE OF SAID SECTION 34 700.29 FEET; THENCE NORTH 89° 55' 42" WEST, 40.00 FEET; THENCE SOUTH 00° 04' 17" WEST, 58.13 FEET; THENCE NORTH 50° 15' 50" WEST, 29.14 FEET; THENCE NORTH 00° 00' 00" EAST, 7.80 FEET; TO THE POINT OF BEGINNING.

THENCE NORTH 00° 00' 00" EAST, 7.34 FEET TO A POINT HEREIN KNOWN AS POINT "A"; THENCE NORTH 00° 00' 00" EAST, 11.30 FEET TO THE POINT OF TERMINUS.

TOGETHER WITH A 4.00 FOOT WIDE STRIP OF LAND LYING 2.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCING AT SAID POINT "A";

THENCE NORTH 90° 00' 00" EAST, 5.38 FEET TO THE POINT OF TERMINUS.

LESSEE LEASE AREA NO. 1 LEGAL DESCRIPTION

A PORTION OF LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA, DESCRIBED AS FOLLOWS;

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 34, TOWNSHIP 21 SOUTH, RANGE 21 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN COCHISE COUNTY, ARIZONA, FROM WHICH THE SOUTH EAST CORNER OF SECTION 34 BEARS SOUTH 0° 04' 18" WEST 2653.11 FEET; THENCE SOUTH 0° 04' 18" WEST ALONG THE EAST LINE OF SAID SECTION 34 700.29 FEET; THENCE NORTH 89° 55' 42" WEST, 40.00 FEET; THENCE SOUTH 00° 04' 17" WEST, 58.13 FEET; THENCE NORTH 50° 15' 50" WEST, 29.14 FEET; THENCE NORTH 00° 00' 00" EAST, 7.80 FEET; THENCE NORTH 00° 00' 00" EAST, 7.34 FEET; THENCE NORTH 00° 00' 00" EAST, 11.30 FEET TO THE POINT OF BEGINNING;

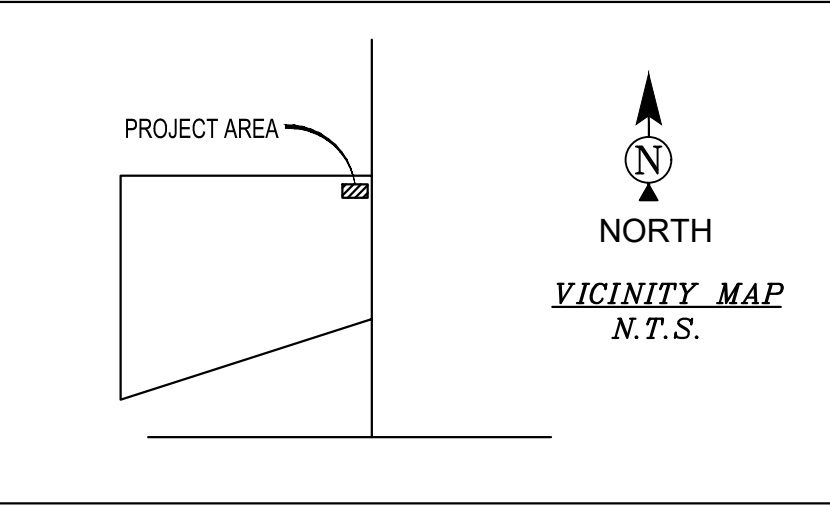
THENCE NORTH 00° 00' 00" EAST, 2.00 FEET; THENCE NORTH 90° 00' 00" EAST, 4.00 FEET; THENCE SOUTH 00° 00' 00" EAST, 4.00 FEET; THENCE NORTH 90° 00' 00" WEST, 4.00 FEET; THENCE NORTH 00° 00' 00" EAST, 2.00 FEET; TO THE POINT OF BEGINNING.

LESSEE LEASE AREA NO. 2 LEGAL DESCRIPTION

A PORTION OF LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA, DESCRIBED AS FOLLOWS;

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 34, TOWNSHIP 21 SOUTH, RANGE 21 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN COCHISE COUNTY, ARIZONA, FROM WHICH THE SOUTH EAST CORNER OF SECTION 34 BEARS SOUTH 0° 04' 18" WEST 2653.11 FEET; THENCE SOUTH 0° 04' 18" WEST ALONG THE EAST LINE OF SAID SECTION 34 700.29 FEET; THENCE NORTH 89° 55' 42" WEST, 40.00 FEET; THENCE SOUTH 00° 04' 17" WEST, 58.13 FEET; THENCE NORTH 50° 15' 50" WEST, 29.14 FEET; THENCE NORTH 00° 00' 00" EAST, 7.80 FEET; THENCE NORTH 00° 00' 00" EAST, 18.64 FEET TO THE POINT OF BEGINNING.

THENCE NORTH 90° 00' 00" WEST, 2.50 FEET; THENCE NORTH 00° 00' 00" EAST, 5.00 FEET; THENCE NORTH 00° 00' 00" EAST, 5.00 FEET; THENCE SOUTH 00° 00' 00" EAST, 5.00 FEET; THENCE NORTH 00° 00' 00" WEST, 2.50 FEET TO THE POINT OF BEGINNING.



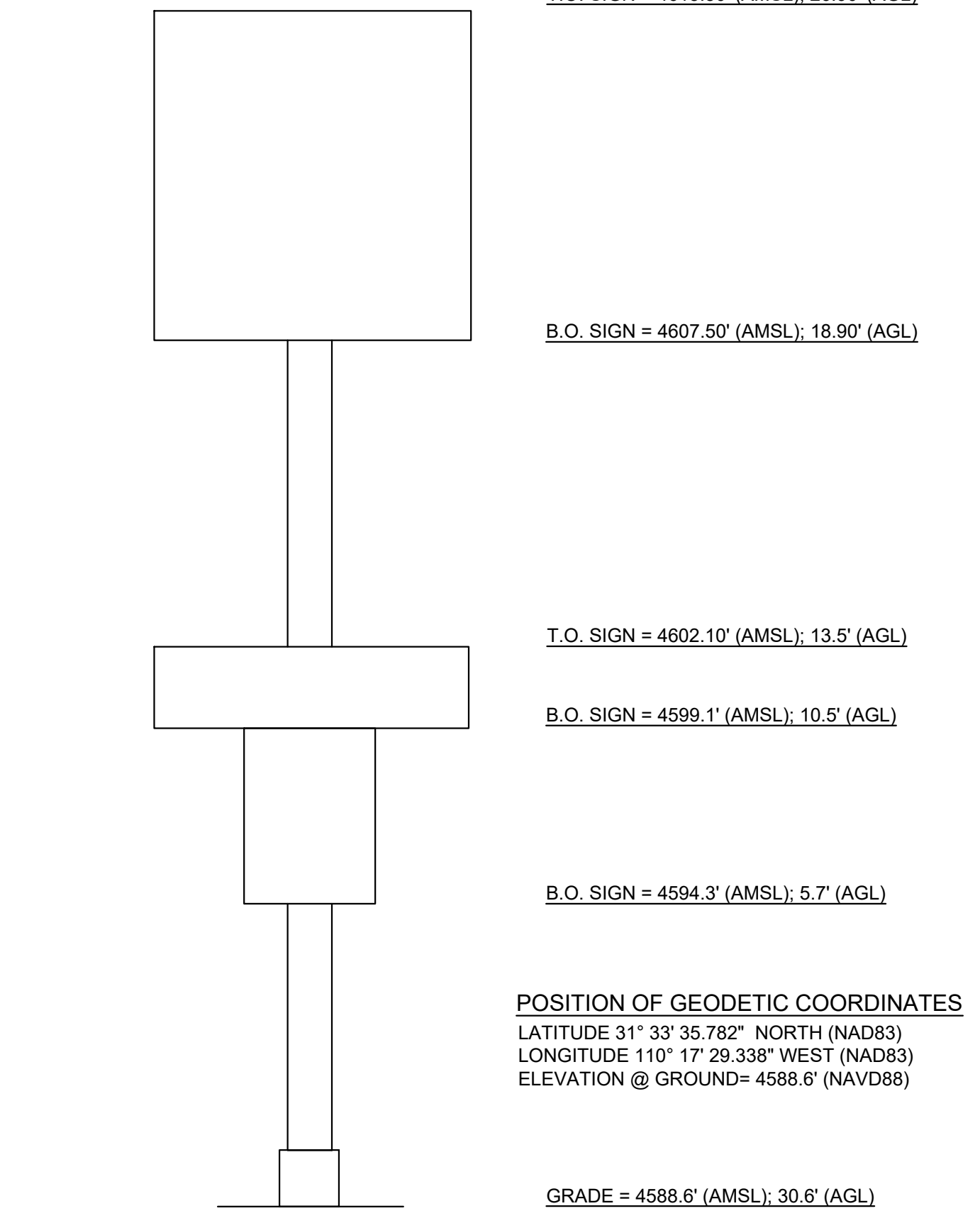
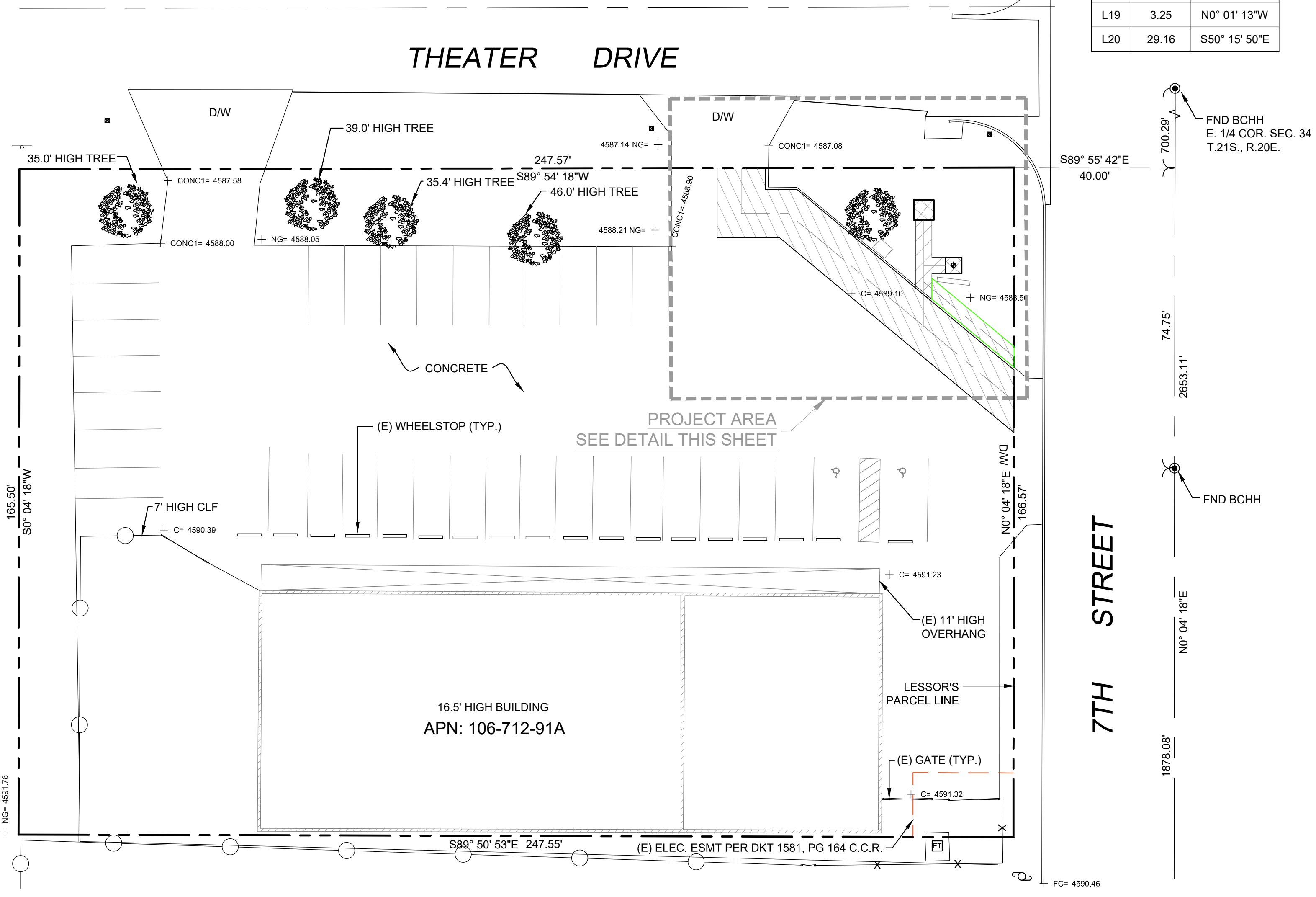
LINE	LENGTH	BEARING
L1	29.14	N50° 15' 50"W
L2	43.93	N50° 15' 50"W
L3	11.69	N90° 00' 00"W
L4	11.32	N0° 00' 00"E
L5	7.80	N0° 00' 00"E
L6	7.34	N0° 00' 00"E
L7	11.30	N0° 00' 00"E
L8	5.38	N90° 00' 00"E
L9	2.00	N0° 00' 00"E
L10	4.00	N90° 00' 00"E
L11	4.00	S0° 00' 00"E
L12	4.00	N90° 00' 00"W
L13	2.00	N0° 00' 00"E
L14	2.50	N90° 00' 00"W
L15	5.00	N0° 00' 00"E
L16	5.00	N90° 00' 00"E
L17	5.00	S0° 00' 00"E
L18	2.50	N90° 00' 00"W
L19	3.25	N0° 01' 13"W
L20	29.16	S50° 15' 50"E

LESSEE UTILITY EASEMENT 2 LEGAL DESCRIPTION

A 4.00 FOOT WIDE STRIP OF LAND BEING A PORTION OF LOT 2, BLOCK 22, FOURTH ADDITION TO THE TOWNSHIP OF FRY, ACCORDING TO BOOK 3 OF MAPS, PAGE 143, RECORDS OF COCHISE COUNTY, ARIZONA, LYING 2.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

COMMENCING AT THE EAST QUARTER CORNER OF SECTION 34, TOWNSHIP 21 SOUTH, RANGE 21 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN COCHISE COUNTY, ARIZONA, FROM WHICH THE SOUTH EAST CORNER OF SECTION 34 BEARS SOUTH 0° 04' 18" WEST 2653.11 FEET; THENCE SOUTH 0° 04' 18" WEST ALONG THE EAST LINE OF SAID SECTION 34 700.29 FEET; THENCE NORTH 89° 55' 42" WEST, 40.00 FEET; THENCE SOUTH 00° 04' 17" WEST, 58.13 FEET; THENCE NORTH 50° 15' 50" WEST, 29.14 FEET; THENCE NORTH 00° 00' 00" EAST, 7.80 FEET; THENCE NORTH 00° 01' 13" WEST, 3.25 FEET; TO THE POINT OF BEGINNING.

THENCE SOUTH 50° 15' 50" EAST, 29.16 FEET TO THE POINT OF TERMINUS.



T.O. SIGN = 4615.50' (AMSL); 26.90' (AGL)

B.O. SIGN = 4607.50' (AMSL); 18.90' (AGL)

T.O. SIGN = 4602.10' (AMSL); 13.5' (AGL)

B.O. SIGN = 4599.1' (AMSL); 10.5' (AGL)

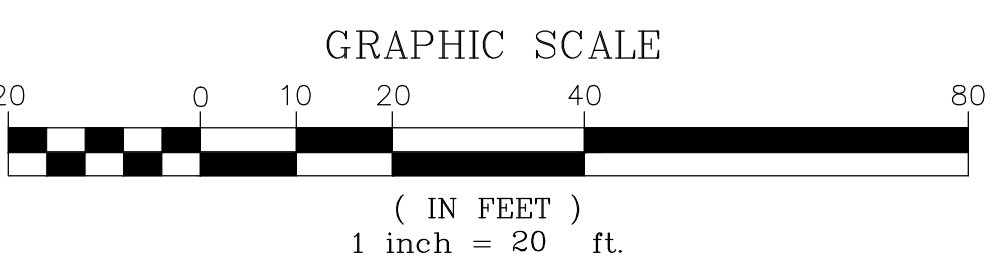
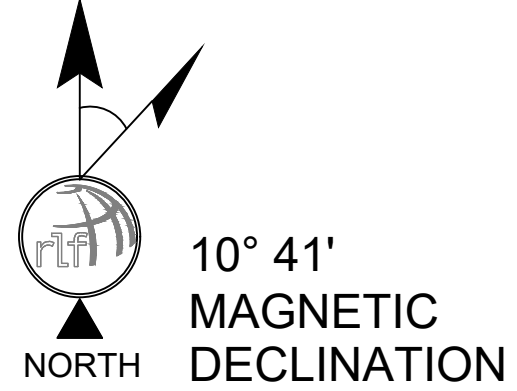
B.O. SIGN = 4594.3' (AMSL); 5.7' (AGL)

POSITION OF GEODETIC COORDINATES
LATITUDE 31° 33' 35.782" NORTH (NAD83)
LONGITUDE 110° 17' 29.338" WEST (NAD83)
ELEVATION @ GROUND= 4588.6' (NAVD88)

GRADE = 4588.6' (AMSL); 30.6' (AGL)

LEGEND

- NG NATURAL GRADE
- FC FACE OF CURB
- RW RIGHT OF WAY
- PV ASPHALT
- D/W ACCESS DRIVEWAY
- MCR MARICOPA COUNTY RECORDER
- 1419.18 SPOT ELEVATION
- FOUND AS NOTED
- POWER POLE
- ELECTRICAL TRANSFORMER
- ELECTRICAL PULL BOX
- TELEPHONE PEDESTAL
- SIGN
- PROPERTY LINE
- PROPERTY LINE (OTHER)
- CENTERLINE
- EASEMENT LINE
- LEASE LINE
- CHAIN LINK FENCE



verizon
126 W. GEMINI DR.
TEMPE, AZ 85283

young design corp
architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
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e mail: corp@ydcoffice.com

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FIELD BY:	JTS
DRAWN BY:	PAS
CHECKED BY:	ABM

REVISIONS		
NO.	DATE	DESCRIPTION
4	01/09/18	REVISION
3	04/14/15	FINAL
2	03/05/15	REVISION
1	02/04/15	PRELIMINARY

RLF CONSULTING
LAND SURVEY • MAPPING SOLUTIONS
204 N. STADEM DR. • TEMPE AZ 85281
WWW.RLFCONSULTING.COM • 480-445-0999

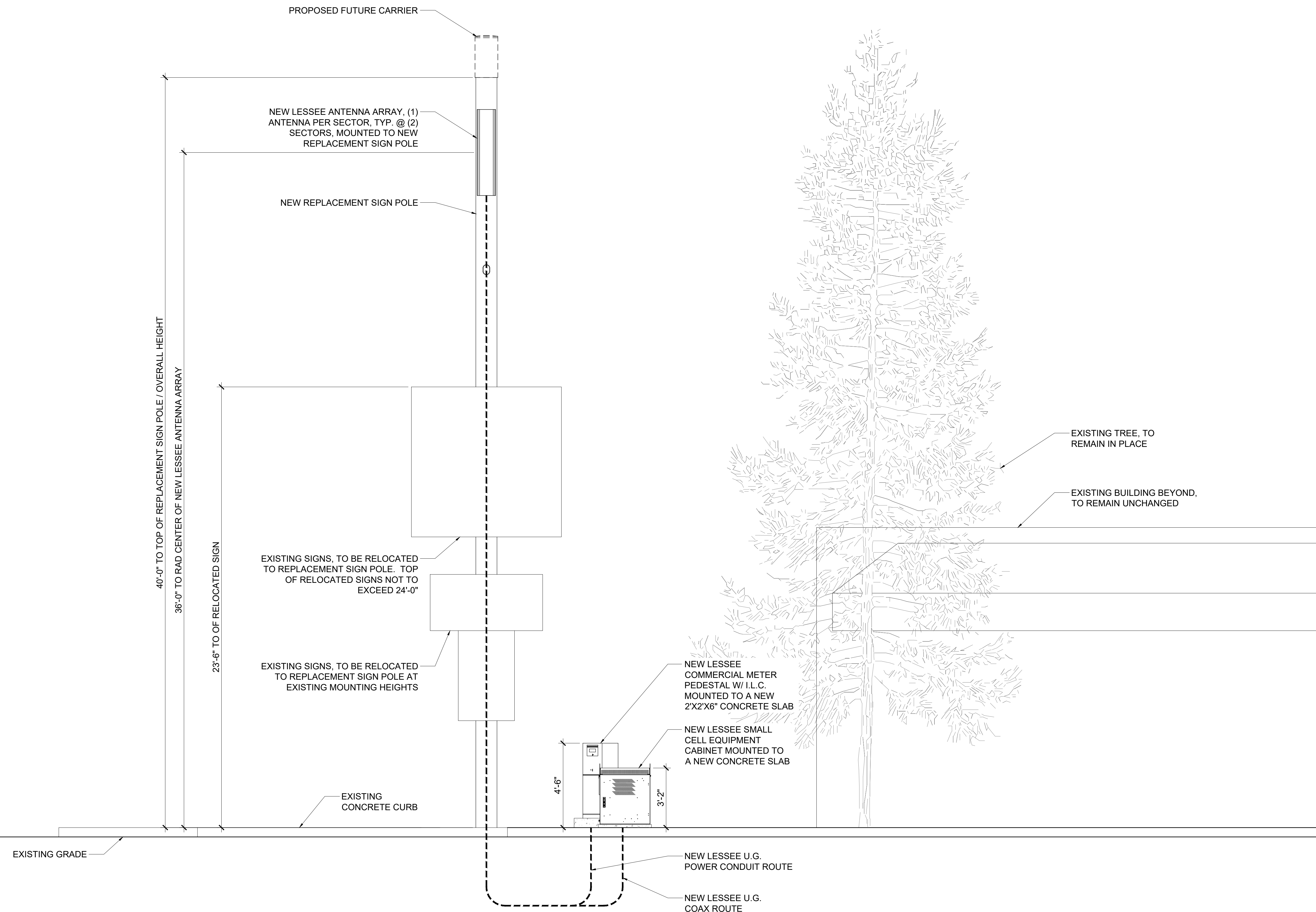
PROJECT No.
09006791

SITE NAME:
AZ6_VISTA-HALL_SC

SITE ADDRESS:
430 N. 7TH ST.
SIERRA VISTA, AZ 85635

SHEET TITLE:
09006791

SHEET NO. LS-1	REVISION:
--------------------------	-----------



1 NEW NORTH ELEVATION
A-3 SCALE: 3/8" = 1'-0"

0 1'-4" 2'-8" 5'-4"
SCALE: 3/8" = 1'-0"

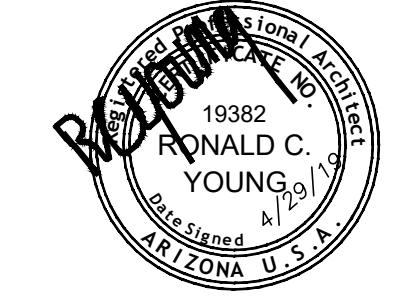
CLIENT

verizon
126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY
Young design corp
architecture / project management
10245 E. Via Linda, Scottsdale, AZ 85258
ph: 480 451 9609 fax: 480 451 9608
e mail: corporate@ydcoffice.com

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NO.	DATE	DESCRIPTION
0	1/10/2019	FINALS
1	4/29/2019	REVISIONS

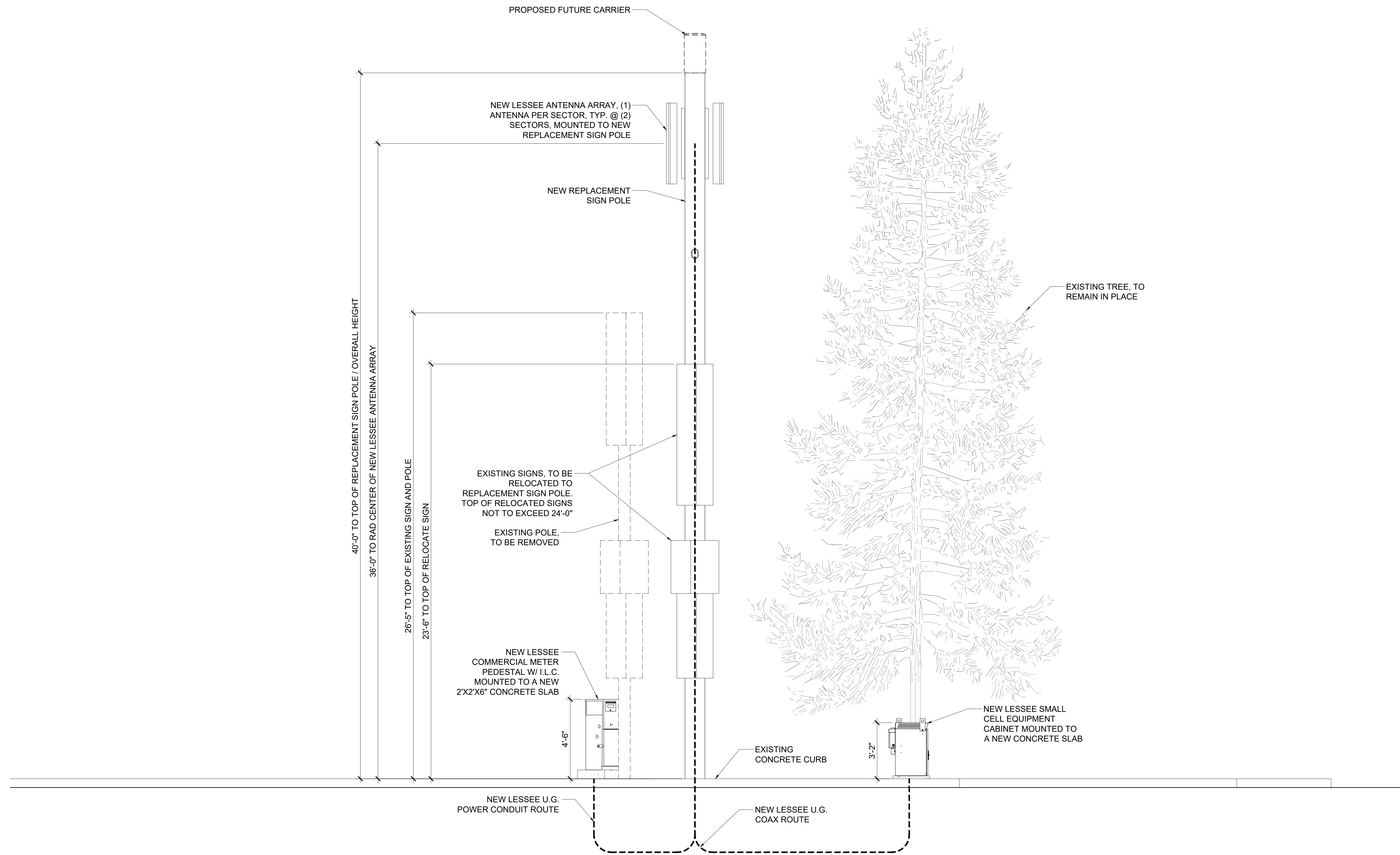
ARCHITECTS JOB NO.
YDC-6234

PROJECT INFORMATION
AZ6_VISTA-HALL_SC
430 N. 7TH STREET
SIERRA VISTA, AZ 85635

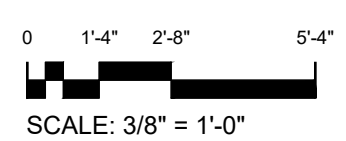
SHEET TITLE
ELEVATIONS

JURISDICTION APPROVAL

SHEET NUMBER
A-3



1 NEW EAST ELEVATION
A-4 SCALE: 3/8" = 1'-0"



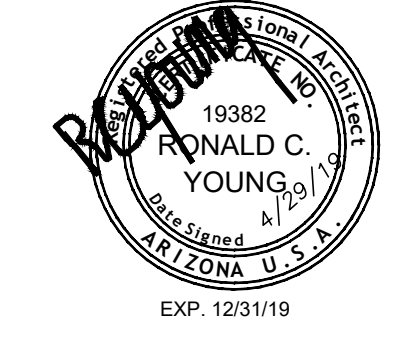
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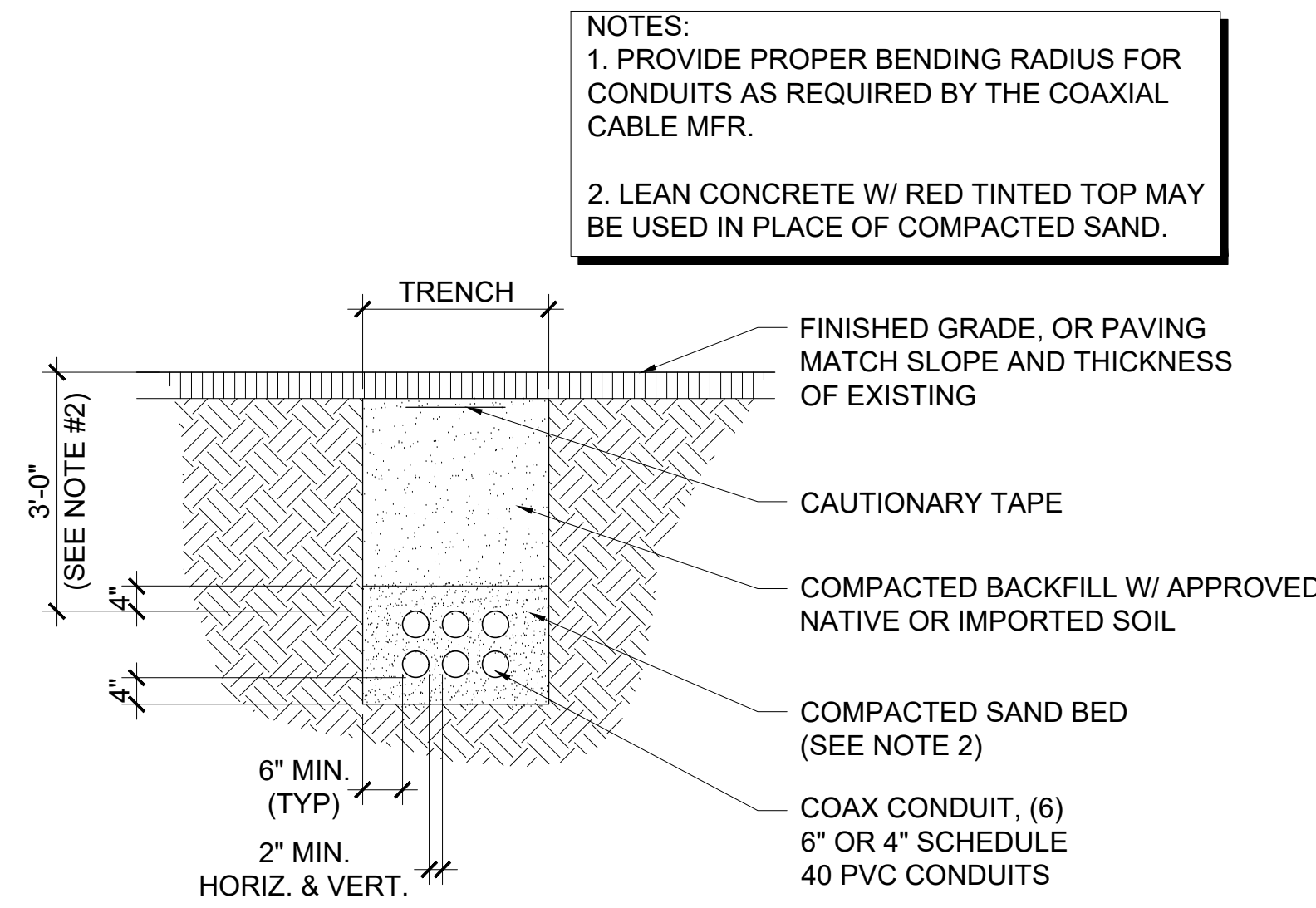
ARCHITECTS JOB NO.
YDC-6234

PROJECT INFORMATION
AZ6_VISTA-HALL_SC
430 N. 7TH STREET
SIERRA VISTA, AZ 85635

SHEET TITLE
ELEVATIONS

JURISDICTION APPROVAL

SHEET NUMBER
A-4

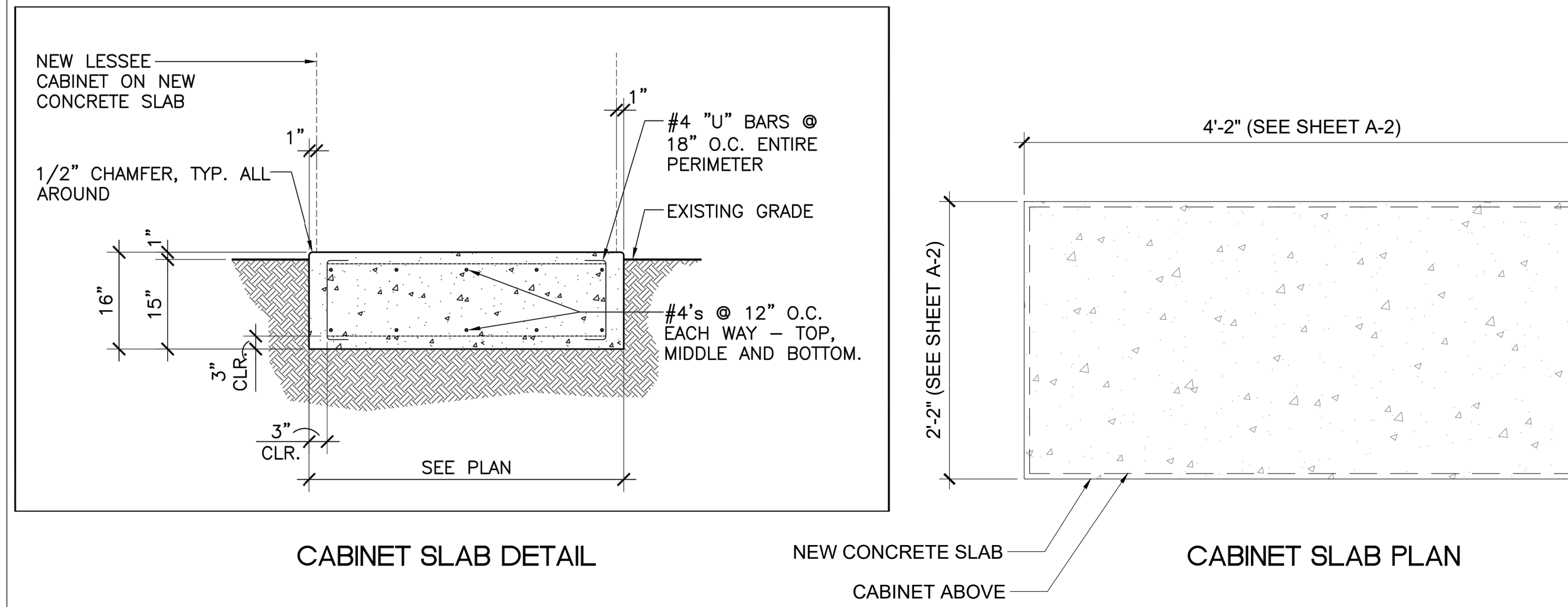


4 COAX TRENCH DETAIL
 A-5 SCALE: 1/2" = 1'-0"

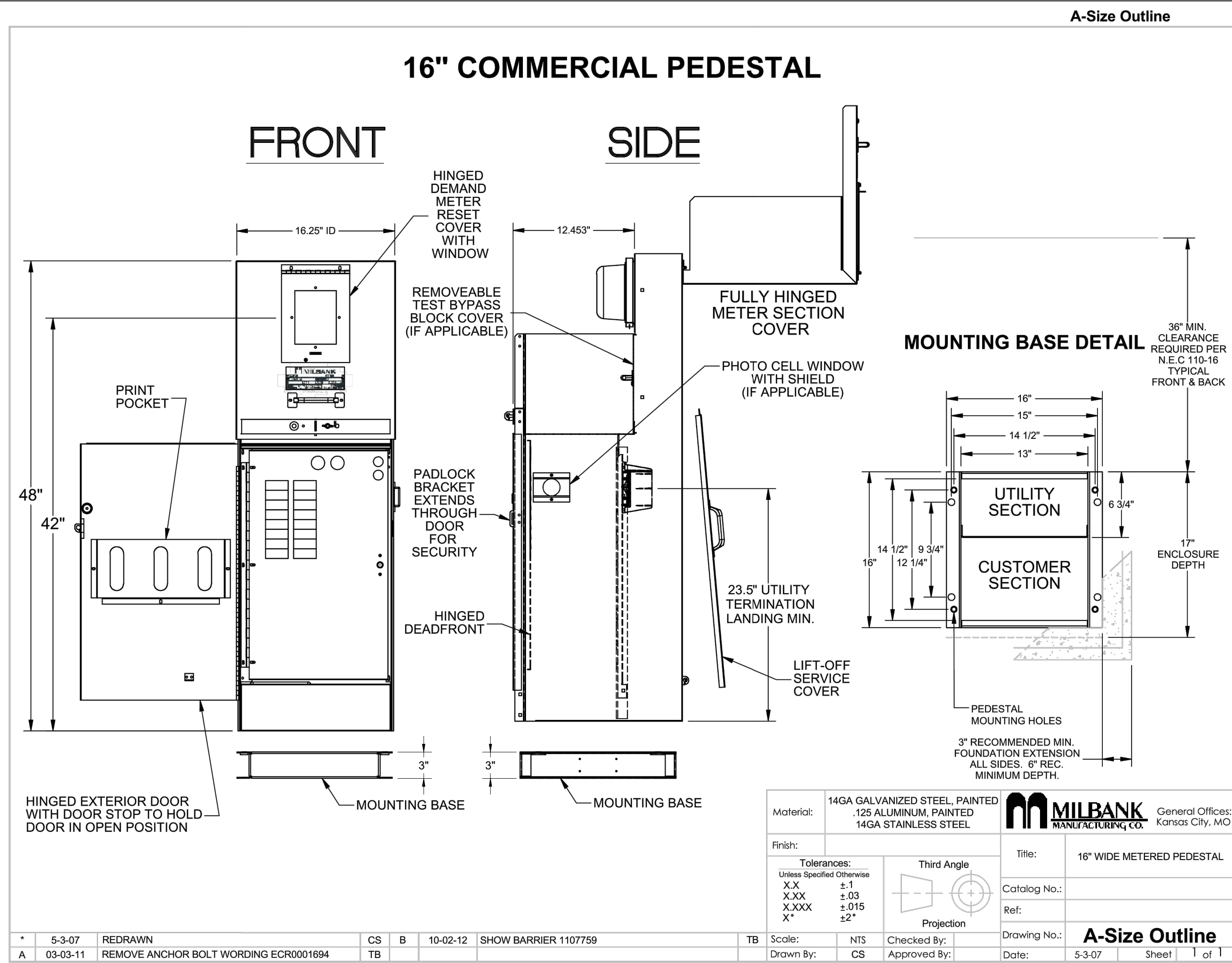
* NOTE:
 CONTRACTOR TO VERIFY DIMENSIONS WITH CABINET MANUFACTURER

NOTE:
 FINISH SLAB ELEVATION TO BE 1" ABOVE HIGHEST ADJACENT GRADE.

NOTE:
 ATTACH CABINET PER MANUFACTURER'S RECOMMENDATIONS.



CABINET SLAB DETAIL NEW CONCRETE SLAB CABINET ABOVE CABINET SLAB PLAN
 3 SCALE: 1/2" = 1'-0"



2 METER PEDESTAL DETAILS
 A-5 SCALE: N.T.S.

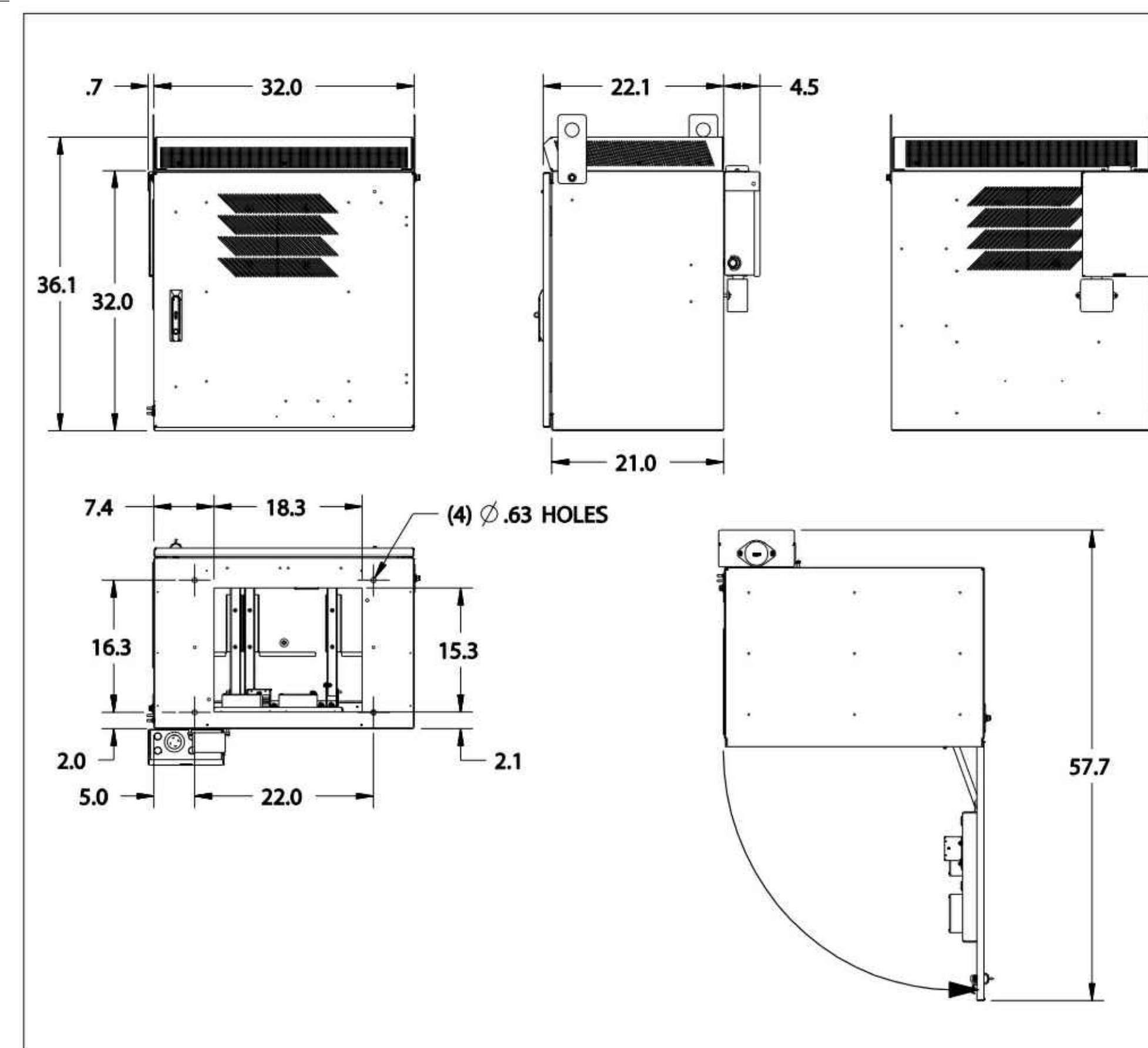


Figure 2 SHRD56 Dimensions (in inches)

ANTENNA CUBIC FOOTAGE:
 (55" X 11.9" X 7.1") / 1728 = 2.69 CU. FT. EACH
 (2) ANTENNAS @ 2.69 CU. FT. EACH = 5.38 CU. FT. TOTAL

EQUIPMENT CABINET CUBIC FOOTAGE:
 (25" X 34" X 38.1") / 1728 = 18.74 CU. FT. TOTAL

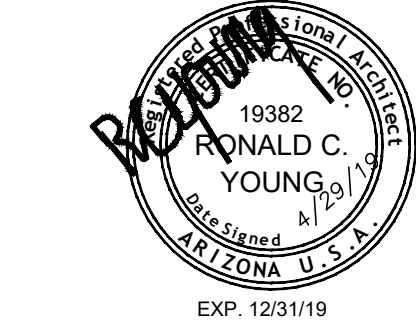
1 CABINET DETAILS
 A-5 SCALE: N.T.S.

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ARCHITECTS JOB NO.
YDC-6234

PROJECT INFORMATION
AZ6_VISTA-HALL_SC
 430 N. 7TH STREET
 SIERRA VISTA, AZ 85635

SHEET TITLE
DETAILS

JURISDICTION APPROVAL _____

SHEET NUMBER
A-5

ELECTRICAL SPECIFICATIONS

- SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- HEIGHTS SHALL BE VERIFIED WITH OWNER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.)
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU.
- CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
- CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
- PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
- ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
- USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
- ALL CONDUCTORS SHALL BE COPPER.
- ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
- PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
- LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
- PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH SECTION NO. 4305 AND NO. 4304 OF THE U.B.C.
- RECEPTACLES SHALL BE 20 AMPERE, 125 VOLT A.C., WHITE AS REQUIRED BY THE ARCHITECT OR APPROVED EQUAL.
- WALL SWITCHES SHALL BE SINGLE-POLE, HUBBELL #1201 OR EQUIVALENT, WHITE AS REQUIRED BY THE ARCHITECT.
- PLASTIC PLATES FOR ALL SWITCHES, RECEPTACLES, TELEPHONE AND BLANKED OUTLETS, SHALL HAVE ENGRAVED LETTERING WHERE INDICATED ON THE DRAWINGS. WEATHERPROOF RECEPTACLES SHALL HAVE RACO #800, 1/2" RAISED WORK COVERS.
- WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
- GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2.
- GROUND RODS SHALL BE COPPER CLAD STEEL, 3/4" ROUND AND 8' LONG, COPPERWELDED OR APPROVED EQUAL.
- METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL.
- ALL MATERIALS SHALL BE U.L. LISTED.
- CONDUIT:
 - RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGIDCONDUIT IN CONTACT WITH EARTH SHALL BE 1/2" LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL. FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
- ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
- UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAUNAGED CONDITION.
- CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.

GENERAL ELECTRICAL NOTES

- CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE EXACT ROUTING REQUIRED. THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
- ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY-RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF INSTALLATION.
- DEVICE LOCATIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE. EXACT DEVICE LOCATIONS SHALL BE AS INDICATED ON THE ARCHITECTURAL PLANS OR AS DIMENSIONED. IF NOT SHOWN ON THE ARCHITECTURAL PLANS OR DIMENSIONED ON THE ELECTRICAL PLANS, VERIFY EXACT LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- ALL WIRE COUNTS ARE TYPICALLY NOT SHOWN BETWEEN LIGHT FIXTURES OR RECEPTACLES. PROVIDE ALL REQUIRED EVEN WHERE NOT SHOWN.
- WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUND (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN 3/4" CONDUIT. MC CABLE SHALL BE ACCEPTABLE IN WALLS. ALL BRANCH CIRCUIT HOME-RUNS SHALL BE IN CONDUIT.
- UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, PLUMBING AND GENERAL CONTRACTORS, PRIOR TO ORDERING OR INSTALLATION OF ANY EQUIPMENT. MECHANICAL AND PLUMBING EQUIPMENT REQUIREMENTS ARE PROVIDED IN THE ELECTRICAL DESIGN. THE CONTRACTOR WILL NOT BE COMPENSATED FOR COSTS ASSOCIATED WITH CHANGING THE ELECTRICAL SYSTEMS TO MATCH UTILIZATION EQUIPMENT, EVEN IF THE ELECTRICAL WORK IS INSTALLED PER THE ELECTRICAL DRAWINGS.
- INSULATION & WIRE TYPES SHALL BE AS FOLLOWS: PANEL FEEDERS - XHHW COPPER, WIRING ABOVE GRADE - THHN COPPER, WIRING BELOW GRADE - THWN COPPER, UNLESS NOTED OTHERWISE.
- SOME CONDUCTOR SIZES ARE BASED ON THE USE OF 75 DEGREE C CONDUCTOR RATINGS. THE CONTRACTOR SHALL VERIFY, PRIOR TO INSTALLATION OF CONDUCTORS OR CONDUIT FEEDING ANY EQUIPMENT, THAT ALL ELECTRICAL EQUIPMENT IS RATED FOR USE WITH 75 DEGREE C WIRING. IF ANY EQUIPMENT IS RATED FOR USE WITH LESS THAN 75 DEGREE C CONDUCTORS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY FOR EVALUATION/CORRECTION.
- UNLESS SPECIFICALLY NOTED OTHERWISE, SYSTEMS PROVIDED OR INSTALLED BY THE ELECTRICAL CONTRACTOR SHALL BE COMPLETE AND FULLY-FUNCTIONING AFTER INSTALLATION. COMPONENTS NOT SHOWN, BUT REQUIRED FOR THE PROPER OPERATION OF THE EQUIPMENT OR SYSTEM, SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE PROJECT.
- THE CONTRACTOR SHALL PERFORM ALL ACCEPTANCE TESTS REQUIRED OR RECOMMENDED BY EQUIPMENT MANUFACTURERS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SEVEN (7) DAYS PRIOR TO TESTING AND SHALL ALLOW OBSERVATION OF THE TESTING BY THE ENGINEER.
- ALL RECEPTACLES INSTALLED WITHIN 6 FEET OF A SINK SHALL BE GFI PROTECTED.
- UNLESS OTHERWISE NOTED, ALL EQUIPMENT DISCONNECTS SHALL BE NEMA TYPE 3R, FUSIBLE, 30A 3-POLE. FUSE PER EQUIPMENT MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ALL PENETRATIONS IN WALLS SHALL BE SEALED WITH FLEXIBLE ACOUSTIC CAULKING. CAULKING SHALL BE APPLIED AROUND OUTLET BOXES TO PROVIDE A COMPLETE SEAL BETWEEN THE BOX AND THE WALL.
- PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (BLUE STAKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL AND STATE CODES INCLUDING THE NEC.
- OVER CURRENT DEVICES SHALL BE LOCATED WHERE THEY WILL NOT BE EXPOSED TO PHYSICAL DAMAGE.
- HOMERUNS SHALL NOT BE GANGED TOGETHER UNLESS SHOWN GANGED.
- CONTRACTOR SHALL CONTACT ENGINEER IN WRITING (RFI) PRIOR TO PROCEEDING WITH ANY WORK NOT CLEARLY SHOWN ON THESE CONTRACT DOCUMENTS. ENGINEER WILL NOT ACCEPT ANY RESPONSIBILITY FOR WORK HE HAS NOT EXPLICITLY AUTHORIZED.
- PROVIDE IDENTIFICATION AT THE DISTRIBUTION PANEL FOR BRANCH CIRCUITS THAT FEED EMERGENCY LIGHTING UNIT EQUIPMENT.
- ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE MAINTENANCE WHILE ENERGIZED SHALL BE PROPERLY MARKED TO WARN PERSONNEL OF ARC FLASH HAZARD.
- PROVIDE A #18 OR LARGER COPPER TRACER WIRE SECURELY ATTACHED TO THE NON-METALLIC CABLE, PIPE OR CONDUIT AT 8"-10" ON CENTER. IT SHALL HAVE A 12" OF TRACER WIRE ACCESSIBLE ABOVE GRADE AT ANY ABOVE GRADE TERMINATION PER ARIZONA STATE STATUTE.
- UTILITY COORDINATION
 - THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF DRAWINGS TO ELECTRICAL AND TELCO UTILITIES AS REQUIRED FOR DESIGN.
 - THE CONTRACTOR SHALL NOT TRENCH OR INSTALL CONDUITS (ON THE UTILITY OR LOAD SIDE) TO THE SES OR TO THE UTILITY TRANSFORMER (PRIMARY OR SECONDARY), OR TO THE UTILITY CONNECTION POINT BEFORE RECEIVING A FINAL DESIGN FROM THE UTILITY.
 - THE CONTRACTOR SHALL NOT INSTALL EQUIPMENT PADS FOR THE SES OR ANY UTILITY EQUIPMENT (TRANSFORMERS, SWITCHING CABINETS, ETC) PRIOR TO RECEIPT OF FINAL PLANS FROM THE UTILITY.
 - THE CONTRACTOR SHALL NOT BE COMPENSATED FOR ADDITIONAL WORK REQUIRED TO MEET THE REQUIREMENTS OF THE UTILITY WHICH IS THE RESULT OF PROCEEDING PRIOR TO RECEIPT OF A FINAL UTILITY DESIGN.

SYMBOL LIST

(NOT ALL MAY BE USED)

ELECTRICAL SYMBOLS

	FLUORESCENT STRIP FIXTURE, LENGTH PER PLAN.
	SURFACE WALL-MOUNTED LIGHT FIXTURE.
	SOLID 'J'BOX' ON ANY FIXTURE INDICATES A FIXTURE WITH AN INTEGRAL EMERGENCY POWER SUPPLY, PER THE SPECIFICATIONS.
	POLE-MOUNTED LIGHT FIXTURE.
	SINGLE POLE TOGGLE SWITCH
	PHOTOCCELL, MOUNTED ON ROOF UNLESS NOTED OTHERWISE.
	DUPLEX CONVENIENCE RECEPTACLE
	"CROSS SLASH" ON ANY RECEPTACLE INDICATES INTEGRAL GROUND FAULT PROTECTION.
	DOUBLE DUPLEX (FOURPLEX) CONVENIENCE RECEPTACLE
	JUNCTION BOX. '1' INDICATES CEILING MOUNTED. 'F' INDICATES FLOOR MOUNTED (SUBSCRIPTS ARE TYPICAL FOR ALL DEVICES)
	VOICE OUTLET
	DATA OUTLET
	COMBINATION TELEPHONE AND DATA OUTLET IN THE SAME BOX
	HORSEPOWER RATED MANUAL MOTOR SWITCH
	FUSIBLE DISCONNECT SWITCH FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. SIZE AND FUSES AS PER RECOMMENDATIONS OF EQUIPMENT'S MANUFACTURER OR AS NOTED. (N, INDICATES NON-FUSED).
	ELECTRICAL MOTOR. SEE DRAWINGS FOR SIZE.
	DISTRIBUTION PANELBOARD, MOTOR CONTROL CENTER OR SERVICE ENTRANCE SECTION. SEE DRAWINGS FOR EXACT TYPE.
	DISTRIBUTION TRANSFORMER
	SURFACE MOUNTED PANEL BOARD.
	FLUSH MOUNTED PANEL BOARD.
	TELEPHONE MOUNTING BOARD.
	TEST WELL/GROUND ROD
	GROUND ROD - 3/4" x 8' COPPER CLAD
	CADWELD CONNECTION
	MECHANICAL CONNECTION
	GROUNDING WIRE
	GROUND BAR
	SURGE SUPPRESSOR GROUND BAR
	METER AND MAIN BREAKER
	MANUAL XFR SWITCH AND GEN. RECPT.
	GPS ANTENNA
	ELECTRICAL POWER
	T-1 LINE
	FLEXIBLE CONDUIT
	CONDUIT CONCEALED IN WALLS OR ABOVE CEILING W/ 2 #12, #12 GND, 3/4" C., UNLESS NOTED OTHERWISE.
	CONDUIT ROUTED UNDER FLOOR OR BELOW GRADE W/ 2 #12, #12 GND, 3/4" C., UNLESS NOTED OTHERWISE.
	CONDUIT TURNING UP.
	CONDUIT TURNING DOWN.
	CIRCUIT BREAKER, FIXED MOUNTED.
	CIRCUIT BREAKER, DRAWOUT MOUNTING.
	FUSIBLE SWITCH. SIZE AS INDICATED ON DRAWINGS.
	TRANSFORMER. SEE ONE-LINE FOR TYPE AND SPECIFICATION.
	CURRENT TRANSFORMER
	METERING DEVICE
	PANELBOARD, MAIN LUG ONLY
	PANELBOARD, MAIN CIRCUIT BREAKER
	TRANSFER SWITCH - MANUAL OR AUTOMATIC
	INDICATES A FEED-THROUGH LUG CONNECTION
	UNINTERRUPTIBLE POWER SUPPLY
	GENERATOR WITH INTEGRAL PROTECTION

WIRE AND CONDUIT

2014 NEC, 2012 IECC. ALL SYSTEM SHALL BE IN COMPLIANCE WITH ABOVE CODES AS ADOPTED BY THE CITY OF SIERRA VISTA.

1-LINE DIAGRAM

CIRCUIT BREAKER, FIXED MOUNTED.
 CIRCUIT BREAKER, DRAWOUT MOUNTING.
 FUSIBLE SWITCH. SIZE AS INDICATED ON DRAWINGS.
 TRANSFORMER. SEE ONE-LINE FOR TYPE AND SPECIFICATION.
 CURRENT TRANSFORMER
 METERING DEVICE
 PANELBOARD, MAIN LUG ONLY
 PANELBOARD, MAIN CIRCUIT BREAKER
 TRANSFER SWITCH - MANUAL OR AUTOMATIC
 INDICATES A FEED-THROUGH LUG CONNECTION
 UNINTERRUPTIBLE POWER SUPPLY
 GENERATOR WITH INTEGRAL PROTECTION

SHEET INDEX

E1	GENERAL NOTES / LEGENDS / SHEET INDEX
E2	SITE POWER PLAN
E3	GROUNDING PLAN / ONE-LINE / CALCS
E4	GROUNDING DETAILS

ABBREVIATIONS

C.O.	= CONDUIT ONLY
PVC.	= SCHEDULE 40 PLASTIC CONDUIT
GRC.	= GALVANIZED RIGID CONDUIT
MTD.	= MOUNTED
W.P.	= WEATHERPROOF
U.O.N.	= UNLESS OTHERWISE NOTED
G. OR GRD.	= GROUND
N. OR NEUT.	= NEUTRAL
A. OR AMP.	= AMPERE
KW.	= KILOWATTS
W.	= WATTS
~	= PHASE
DIA.	= DIAMETER
H.P. OR HP	= HORSEPOWER
XFMR	= TRANSFORMER
C.B.	= CIRCUIT BREAKER
CKT.	= CIRCUIT
SW.	= SWITCH
MTS	= MANUAL TRANSFORMER SWITCH
F.A.	= FIRE ALARM
RECPT.	= RECEPTACLE
E.C.	= ELECTRIC CONTRACTOR
G.C.	= GENERAL CONTRACTOR
1P, 2P, & 3P	= SINGLE POLE, TWO POLE, & THREE POLE
EGB	= EQUIPMENT GROUND BUS
MGB	= MAIN GROUND BUS
AFC	= AVAILABLE FAULT CURRENT
AWG	= AMERICAN WIRE GAUGE
BTWC	= BARE TINNED COPPER WIRE
GPS	= GLOBAL POSITIONING SYSTEM
PPC	= POWER PROTECTION CABINET
TYP.	= TYPICAL
RGS	= RIGID GALVANIZED STEEL
EMT	= ELECTRICAL METALLIC TUBING
DWG	= DRAWING
BTS	= BASE TRANSMISSION SYSTEM
GEN	= GENERATOR
BSCW	= BARE STRANDED COPPER WIRE
ISCW	= INSULATED STRANDED COPPER WIRE

CODE INFORMATION:

2014 NEC, 2012 IECC. ALL SYSTEM SHALL BE IN COMPLIANCE WITH ABOVE CODES AS ADOPTED BY THE CITY OF SIERRA VISTA.

CLIENT



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SEAL

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NO.	DATE	DESCRIPTION
0	6/30/2015	SUBMITTAL
1	1/10/2018	EASEMENTS
2	10/11/2018	REVISIONS

ARCHITECTS JOB NO. YDC-6234

PROJECT INFORMATION

AZ6_VISTA-HALL_SC

430 N. 7TH STREET
 SIERRA VISTA, AZ 85635

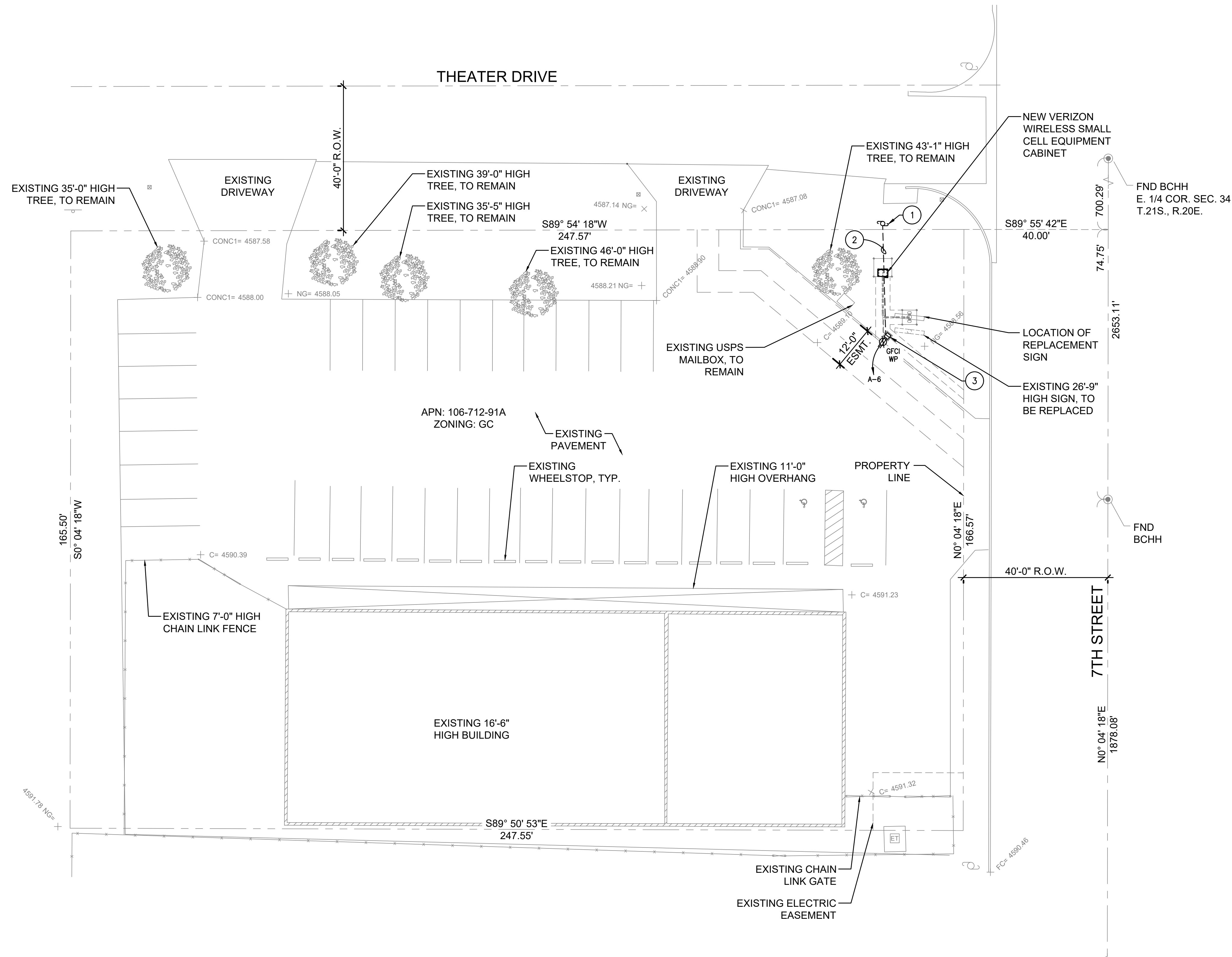
SHEET TITLE
 GENERAL NOTES / LEGENDS / SHEET INDEX

JURISDICTION APPROVAL

SHEET NUMBER
E-1

KEYED NOTES (f)

1. NEW ELECTRIC POLE AND SSVEC POLE MOUNTED TRANSFORMER, SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.
2. NEW 2.5" U.G. POWER CONDUIT FROM THE TRANSFORMER TO THE NEW METER PEDESTAL +/- 30". COORDINATE LOCATION AND ROUTING PRIOR TO ROUGH-IN.
3. NEW METER PEDESTAL, SEE ONE-LINE DIAGRAM FOR MORE INFORMATION.



SITE POWER PLAN
1/16"=1'-0"

CLIENT

verizon
 126 W. GEMINI DR.
 TEMPE, AZ 85283

INTERNAL REVIEW	DATE
CONSTRUCTION SIGNATURE	
RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY
young design corp

architecture / project management
 10245 E. Via Linda, Scottsdale, AZ 85258
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SHEET TITLE
SITE POWER PLAN

JURISDICTION APPROVAL

SHEET NUMBER
E-2

NEW ELECTRICAL PANEL SCHEDULE												
PANEL A 10KVA FULLY RATED												
LOCATION: PER PLAN												
MOUNTING: SURFACE												
VOLTAGE: 240 / 120 V 1Ø, 3Ø												
MINS: 100 A MLO												
BUS: 100 A CU												
LOAD DESCRIPTION	EMT COND	CU GRND	PHASE NEUT	CRK BRKR	CR NO.	LOAD AMPS	CRK BRKR	CR NO.	PHASE NEUT	CU GRND	EMT COND	LOAD DESCRIPTION
MISC RECTIFIER #1	1"	10	8	40	1	26.7	15	12	12	3/4"	MISC SURGE PROTECTOR	
MISC CONT.			8	2	3	26.7	2	12			MISC CONT.	
MISC RECTIFIER #2	3/4"	10	10	30	5	13.3	6	1	12	12	3/4"	RECEPTACLES GFCI
MISC CONT.			10	2	7	13.3	8					BUSSED SPACE
BUSSED SPACE				9	9	0.0	10					BUSSED SPACE
BUSSED SPACE				11	11	0.0	12					BUSSED SPACE
BUSSED SPACE				13	13	0.0	14					BUSSED SPACE
BUSSED SPACE				15	15	0.0	16					BUSSED SPACE
AMPS PER PHASE (CODE LOAD)				41.5		44.2		CONTRACTOR TO INSTALL APPROVED HANDLE TIE ON ALL SHARED NEUTRAL CIRCUITS.				
1 PHASE DEMAND (KVA)				0.0		0.0		SYMBOL LIST				
RECEPTACLES				190.0		0.0						
MISCELLANEOUS				9600.0		0.0						
TOTAL VA				9.8 KVA @ 240 V 1Ø		40.8 A @ 240 V 1Ø						

NOTE: ALL WIRES SHALL BE COPPER THIN WIRE OR XHHW UNLESS NOTED OTHERWISE.

NOTE: PRIOR TO RUNNING CONDUIT ROUTE - CONTRACTOR SHALL CONTACT THE VERIZON PROJECT MANAGER AND VERIFY THE EQUIPMENT CABINET LAYOUT CONFIGURATION AND ROUTE CONDUITS ACCORDINGLY.

NOTE: PRE CONSTRUCTION MEETING AND ELECTRICAL EASEMENT REQUIRED BEFORE ANY WORK STARTS.

CODE LOAD SUMMARY
PANEL 'A' @ 240V = 40.8A

Power Company: SSVEC

Submit drawings to Utility Company representative as required in the General Notes included in the Electrical Drawings.



GENERAL GROUNDING NOTES

- ALL GROUNDING LEADS INSTALLED TO ENSURE A SMOOTH PATH TO COUNTERPOISE WITHOUT KINKS OR SHARP BENDS OR RETURN UPWARDS.
- CONTRACTOR WILL UTILIZE THE "FALL OF POTENTIAL MEASUREMENT METHOD" PER NETA STANDARDS, UTILIZING THE AEMC-4500 MEASURING DEVICE OR APPROVED VERIZON EQUAL. ALL GROUND TESTING TO BE PERFORMED BEFORE CONNECTING TO POWER UTILITY GROUND AND PRIOR TO ANY BACKFILL OF GROUNDING TRENCHES. ELECTRICAL CONTRACTOR WILL PROVIDE A MINIMUM OF ONE (1) INSPECTION PORT FOR TESTING GROUNDING RESISTANCE. CONTRACTOR WILL INSTALL THE MINIMUM NUMBER OF GROUND RODS INDICATED, SEE GROUNDING PLAN FOR APPROX. LOCATIONS. CONTRACTOR WILL INSTALL ADDITIONAL GROUNDING AS REQUIRED TO ACHIEVE 5 OHMS OR LESS TO GROUND.
- IT IS THE INTENT THAT AT NO TIME ARE THE GROUND LEADS TO BE INSTALLED BELOW THE SURFACE OF THOSE AREAS DESIGNATED FOR FUTURE DISSOCIATED PADS OR SHELTERS.
- THE CONTRACTOR WILL DOCUMENT MEGGER TEST RESULTS, REDLINE THE DRAWINGS FOR THE LOCATION OF ALL UNDERGROUND GROUNDING COMPONENTS AND PHOTOGRAPH WITH A DIGITAL CAMERA THE ENTIRE NEWLY INSTALLED GROUNDING SYSTEM PRIOR TO BACKFILL OF ANY OPEN TRENCHES.
- ANY EXCEPTIONS TO THIS BASIC GROUNDING DESIGN GUIDELINE, ROUTING DESIGN, OR MODIFICATIONS, WILL BE DOCUMENTED AND DIMENSIONED BY WAY OF RED LINE DRAWINGS. IT IS THE RESPONSIBILITY OF THE SELECTED CONTRACTOR TO ENSURE THE NEWLY INSTALLED GROUNDING SYSTEM MEETS THE VERIZON WIRELESS STANDARD OF 5 OHMS OR LESS.
- CONTRACTOR TO VERIFY TOWER GROUND RING SIZE.

GROUNDING KEY NOTES

- EQUIPMENT GROUND RING BURIED MINIMUM 24" BELOW GRADE, #2 SOLID TINNED BARE COPPER WIRE. REFER TO DETAIL 2 ON SHEET EA.
- COPPER GROUND ROD PLACED MINIMUM EVERY 10'. REFER TO DETAIL 3 ON SHEET EA.
- CAD WELD CONNECTION TYPICAL.
- #2 SOLID TINNED BARE COPPER WIRE FROM EQUIPMENT GROUND RING TO EQUIPMENT - TYPICAL (2) LOCATIONS - CONTRACTOR TO ROUTE GROUND WIRE THROUGH EQUIPMENT CONCRETE SLAB INSIDE OF EQUIPMENT CABINET.
- MECHANICAL CONNECTION TYPICAL.
- UTILITY ELECTRICAL SERVICE ENTRANCE SECTION GROUND RODS, 8"x5/8" CU. CLAD GROUND RODS. #6 SOLID TINNED BARE COPPER WIRE FROM GROUND RODS TO SERVICE GROUND BAR.
- #6 SOLID TINNED BARE COPPER WIRE FROM EQUIPMENT GROUND RING TO SERVICE GROUND BAR WITHIN 1" DIAMETER PVC CONDUIT, SECURED TO CABINET AT MIDPOINT.
- #2 SOLID TINNED BARE COPPER WIRE FROM EQUIPMENT GROUND RING TO EQUIPMENT GROUND BAR - CONTRACTOR TO ROUTE GROUND WIRE THROUGH EQUIPMENT CONCRETE SLAB INSIDE OF EQUIPMENT CABINET.
- #2 SOLID TINNED BARE COPPER WIRE FROM EQUIPMENT GROUND RING TO ANTENNAS ON LIGHT POLE.
- #6 SOLID TINNED BARE COPPER WIRE FROM LIGHT POLE TO LIGHT POLE GROUND ROD.

NOTE: CONTRACTOR TO ADHERE TO VERIZON WIRELESS NATIONAL GROUNDING STANDARDS

1-PHASE, LINE-TO-LINE SHORT CIRCUIT CALCULATIONS BASED ON THE "POINT-BY-POINT" METHOD

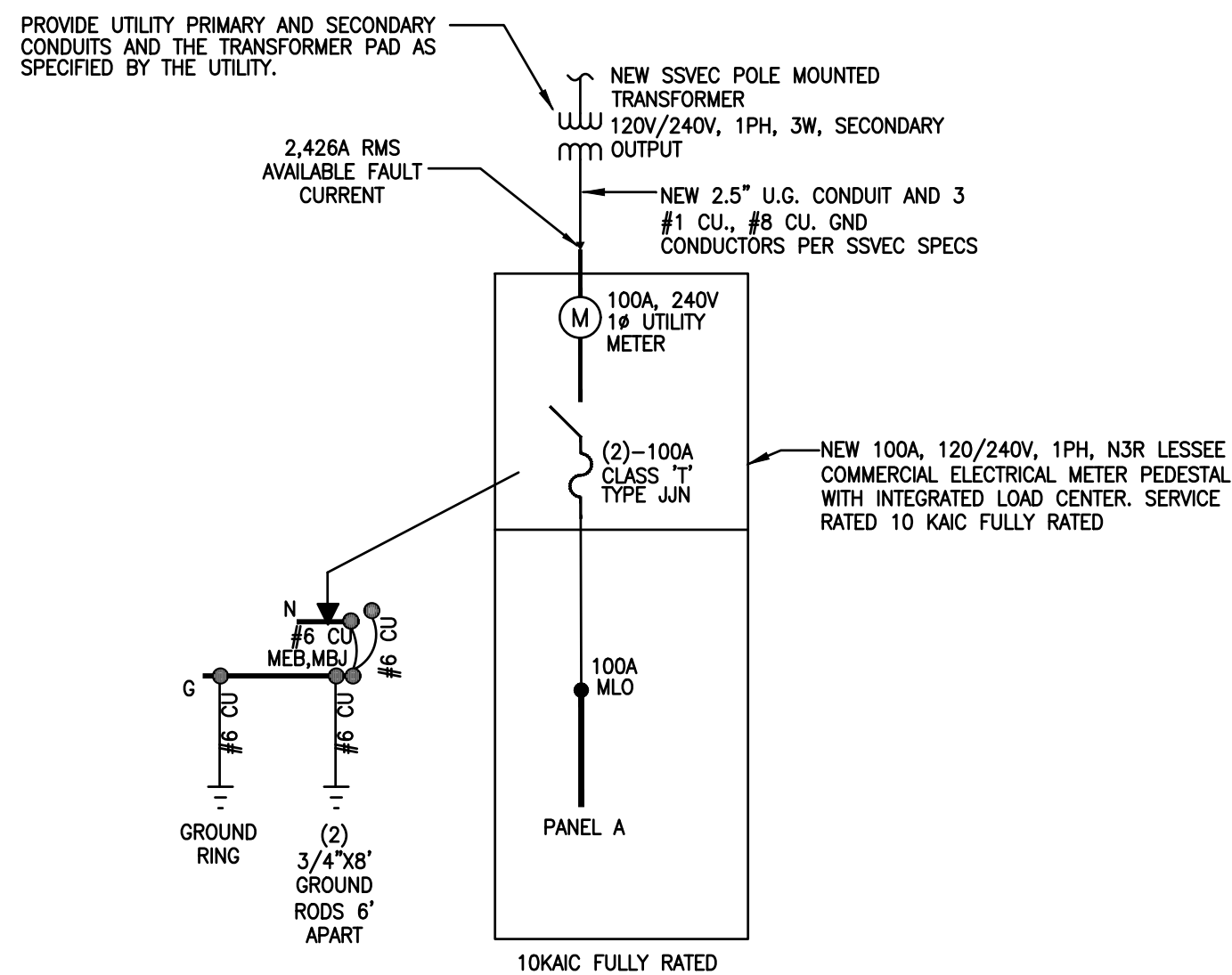
$$I_{sc} = I_{sc} \times M \quad M = 1/(1 + f) \quad \text{Cable: } f = 2 \times L \times I / C \times E \quad \text{Xfmr: } f = I_p \times E \times V_p \times \%Z / 100000 \times KVA$$

$$I_s (\text{sc}) = V_p / V_s \times M \times I_s$$

where:
 I_{sc} = the available short-circuit current, in amperes, at the beginning of the circuit.
 L = the length of circuit to the fault, in feet.
 C = the constant from Table C for the type of conductors and circuit arrangement.
 For parallel runs, multiply "C" value by the number of conductors per phase.
 E = Line-to-line voltage or Line-to-ground voltage, where applicable.
 I_p = primary current, in amperes.
 V_p = primary line-to-line voltage of transformer, in volts.
 V_s = secondary line-to-line voltage of transformer, in volts.
 $\%Z$ = impedance of transformer.
 * Use row 'ca' for feeder cables; and row 'xf' for transformers.

Fault Point	Description	Source Isc (amps)	Wire / Cable Size	No. of cond. per phase	Type of conduit	"C" value	E (volts)	L (length) in feet	XFMR. KVA	XFMR. %Z	Vp (volts)	Vs (volts)	f	M	I sc (amps)
F1	SERVICE ENTRANCE (PER SSVEC CHARTS)	2426.00											0.00	1.00	2426.00
F2	PANEL 'A'	2426.00	#1 CU	1	MAG	7293	240	1					0.00	1.00	2419.29
													0.00	1.00	0.00

Note: The above calculations neglected motor short-circuit contributions. If significant, motor short-circuit contribution may be added to the transformer secondary short-circuit current value. A practical estimate of motor contribution is to multiply the total motor load in amperes by 4. Lengths are for calculations only. DO NOT USE for cost estimating or take-off purposes.



ONE-LINE DIAGRAM

N.T.S.

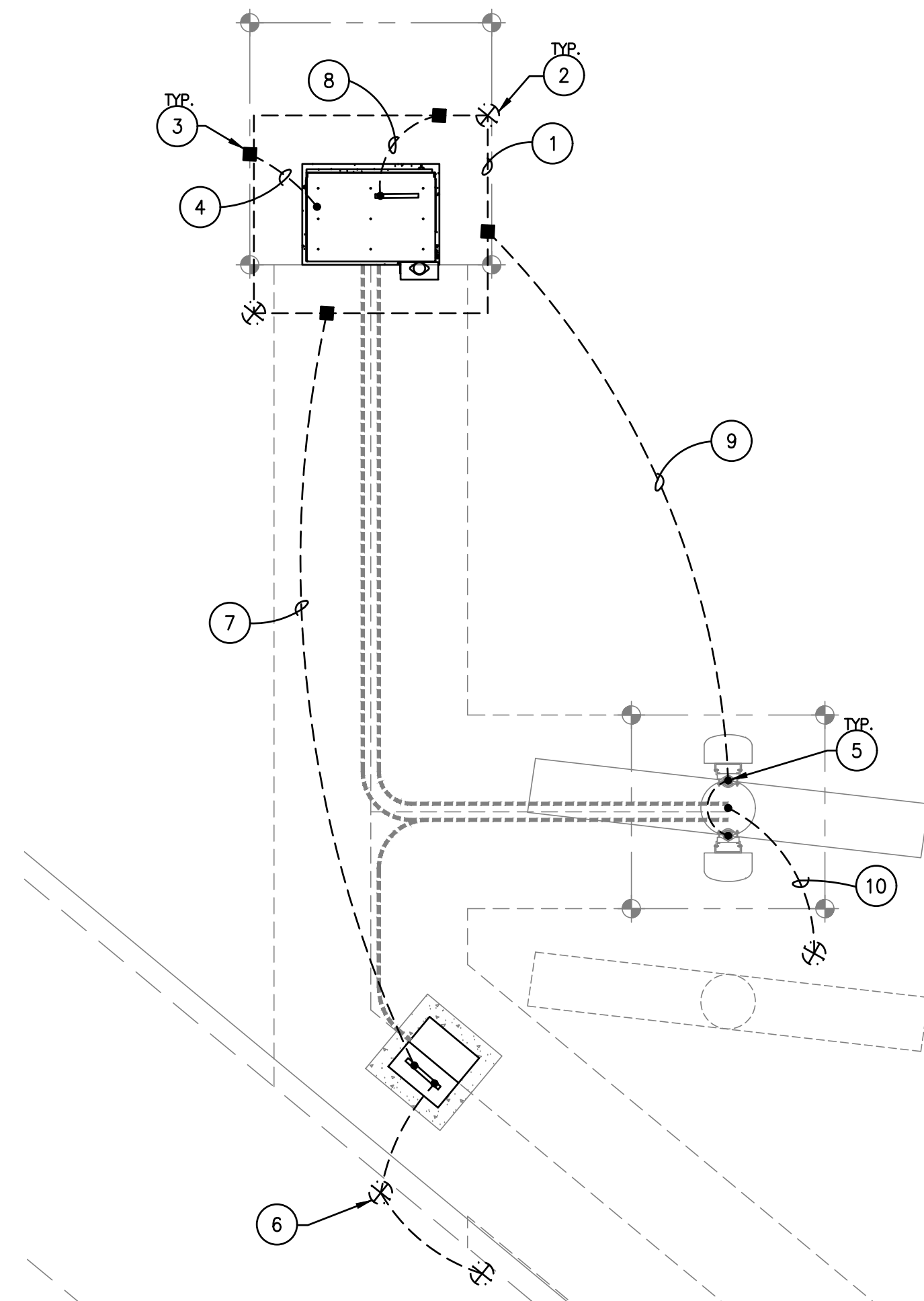
PROVIDE APPROVED ARC-FLASH HAZARD WARNING ON ALL REQUIRED ELECTRICAL EQUIPMENT PER NEC 110.16

WARNING

Electric Arc Flash Hazard
Will cause severe injury or death

Wear proper protective equipment before opening or performing diagnostic measurements while energized. (See NFPA 70E)

ELECTRICAL CONTRACTOR SHALL PROVIDE LABELING OF THE AVAILABLE FAULT CURRENT FOR EACH PANEL AS NOTED, PER NEC 110.24.



GROUNDING PLAN

3/8"=1'-0"
NOTE: SEE SHEET E-4 FOR GROUNDING DETAILS

ASEENGINEERING 2410 w. royal palm rd. suite A, phoenix, AZ 85021
 aseengineering.com o 602.287.0300 f 602.287.0600
 THESE DRAWINGS AND ASSOCIATED DOCUMENTATION CONTAIN INFORMATION, DESIGN, CONCEPTS, AND DATA THAT ARE THE SOLE PROPERTY OF ASE ENGINEERING, INC. THIS INFORMATION MAY NOT BE USED FOR ANY PURPOSE OTHER THAN ORIGINALLY INTENDED WITHOUT THE EXPRESSED WRITTEN CONSENT AND PERMISSION OF THE ENGINEER AND ASE ENGINEERING, INC.

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 DSN: LL
 CHK: CS

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RF SIGNATURE	
FACILITIES SIGNATURE	
REAL ESTATE SIGNATURE	

PLANS PREPARED BY

architecture / project management
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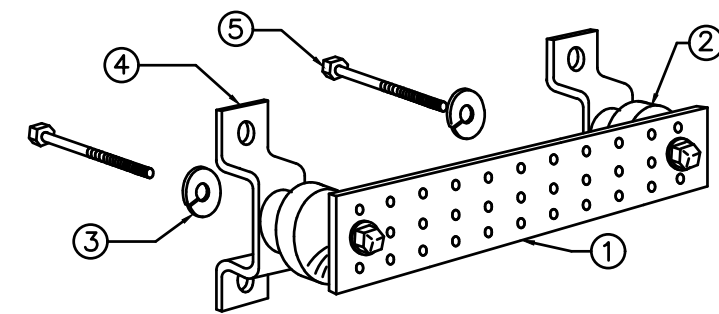
AZ6_VISTA-HALL_SC

430 N. 7TH STREET
 SIERRA VISTA, AZ 85635

SHEET TITLE
GROUNDING PLAN / ONE-LINE / CALCS

JURISDICTION APPROVAL

SHEET NUMBER
E-3

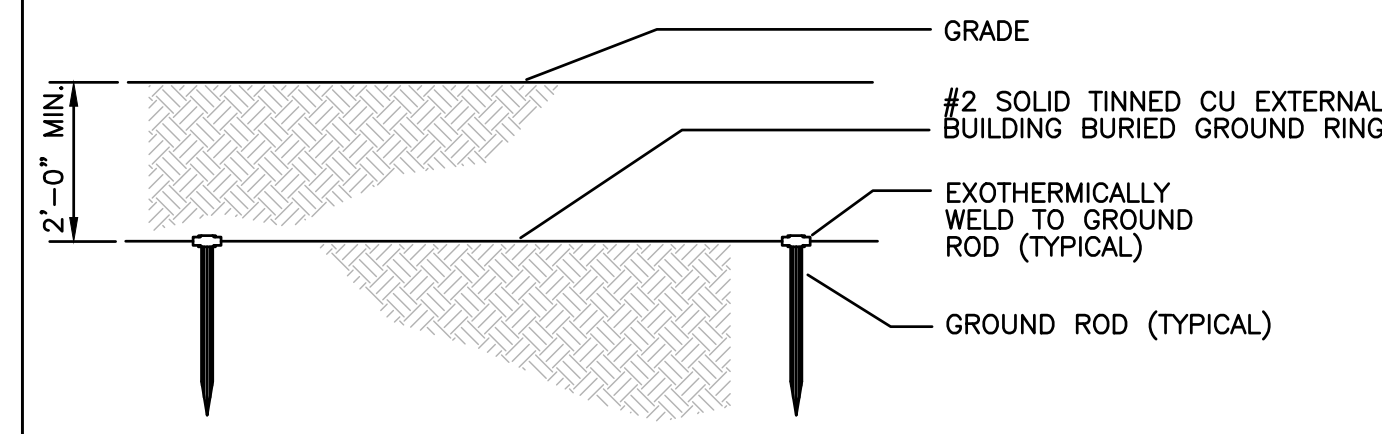


NOTES:

- 1) COPPER GROUND BAR OR APPROVED EQUAL, 1/4" x 4" x 12". HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
- 2) SPACERS AS REQUIRED
- 3) 5/8" LOCKWASHERS
- 4) WALL MOUNTING BRACKET
- 5) 5/8" -11 x 1" H.H.C.S. BOLTS
- 6) GROUND BAR TO BE PURCHASED FROM ROHN.

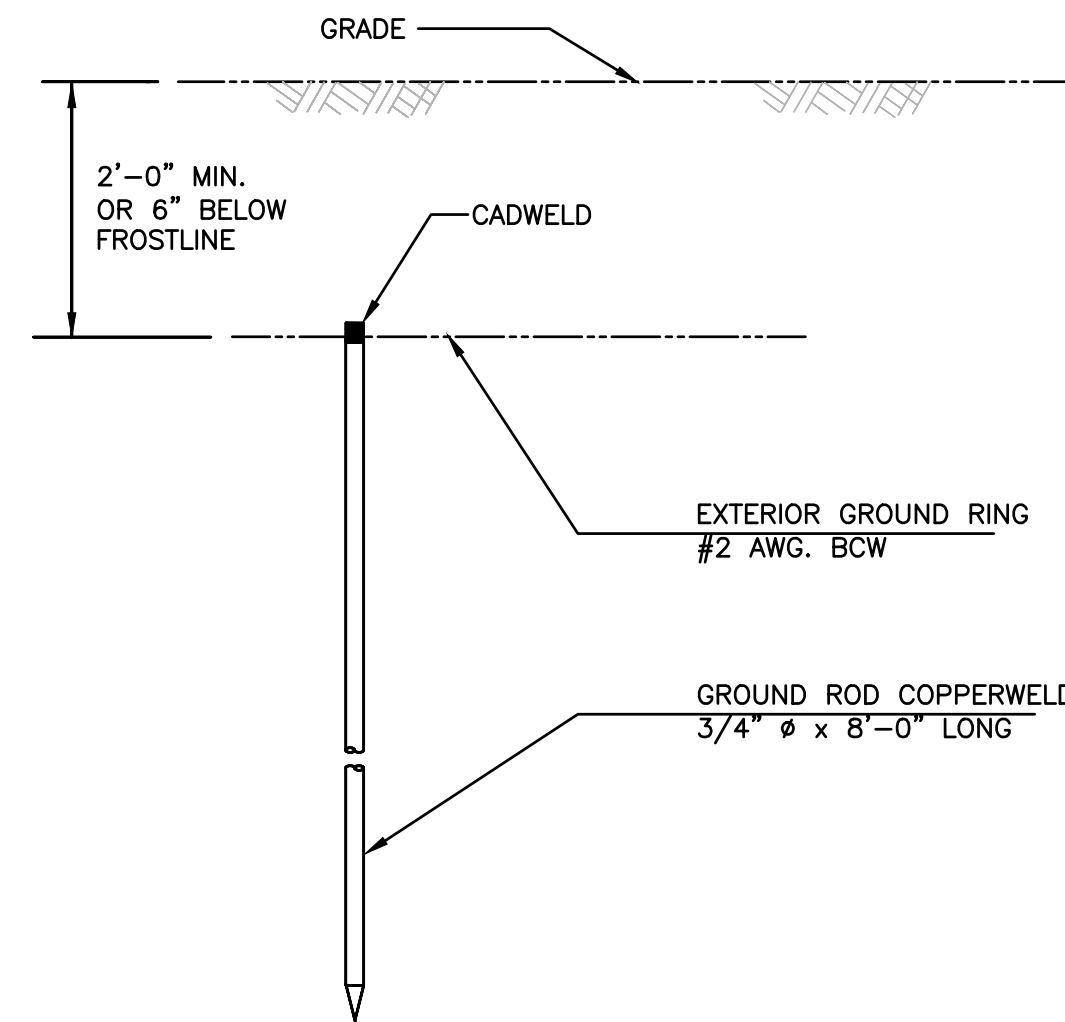
1 COPPER GROUND BAR

E-4 NOT TO SCALE



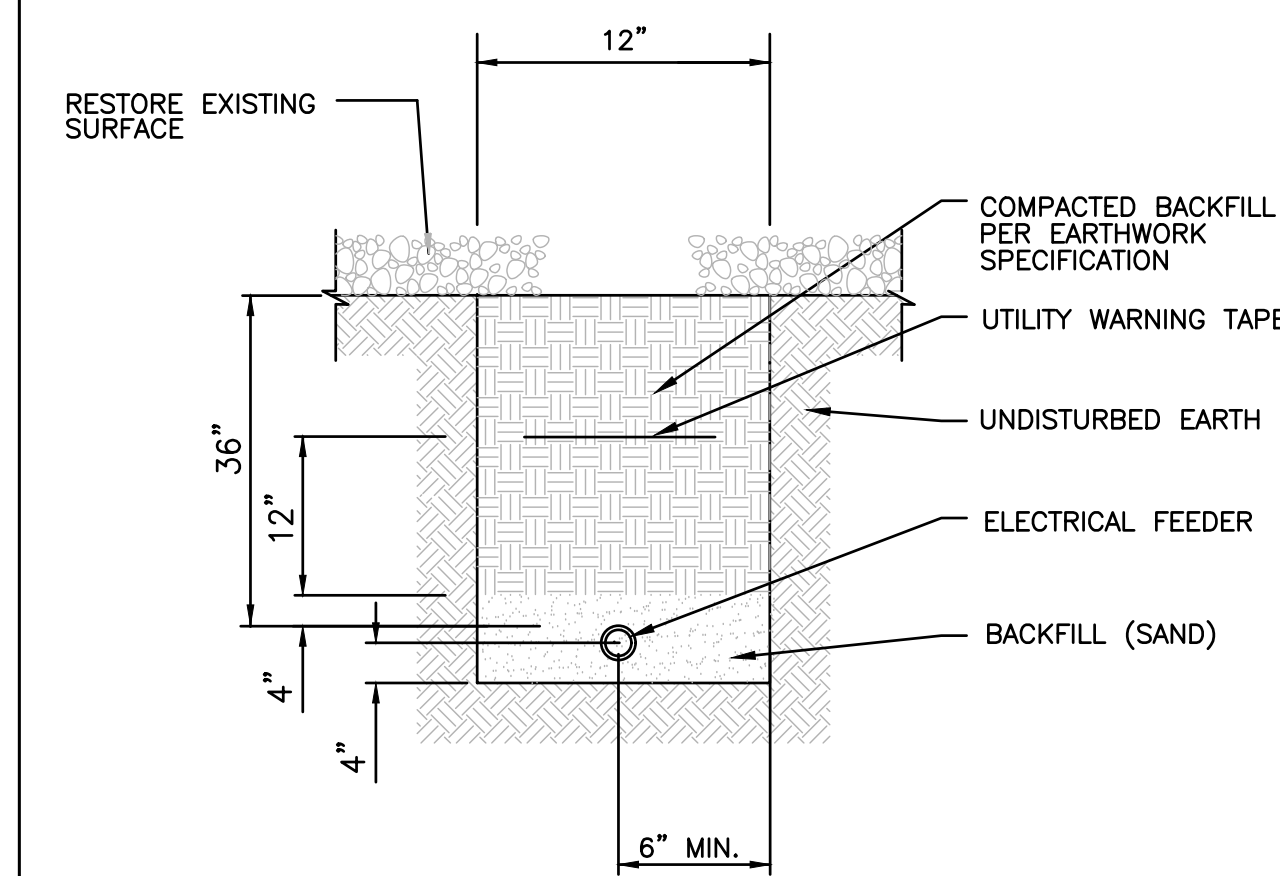
2 EXTERIOR GROUND RING DETAIL

E-4 NOT TO SCALE



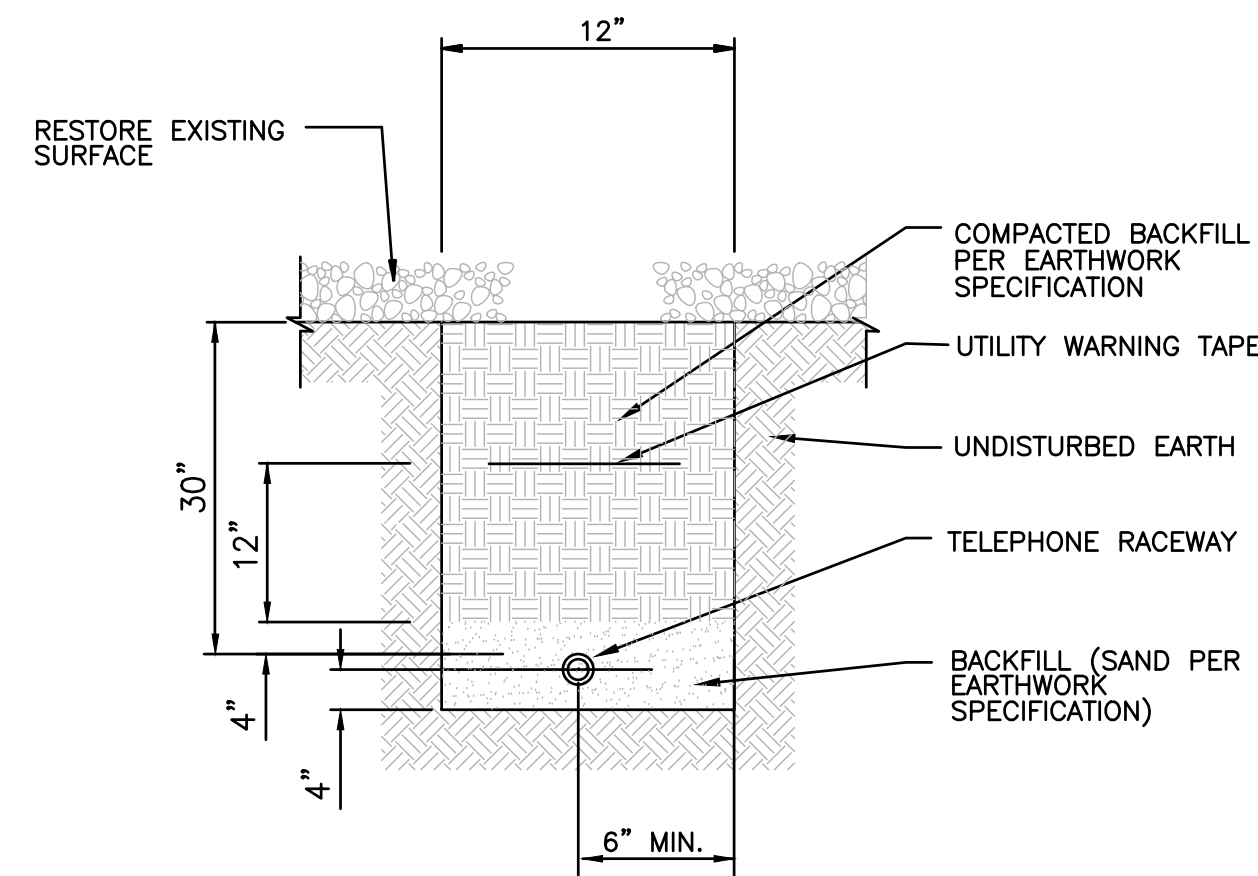
3 GROUND ROD DETAIL

E-4 NOT TO SCALE



4 ELECTRICAL TRENCH DETAIL

E-4 NOT TO SCALE



5 TELEPHONE TRENCH DETAIL

E-4 NOT TO SCALE

6 NOT USED

E-4 NOT TO SCALE

CLIENT

verizon
126 W. GEMINI DR.
TEMPE, AZ 85283

INTERNAL REVIEW _____ DATE _____

CONSTRUCTION SIGNATURE _____

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PLANS PREPARED BY



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SHEET TITLE

GROUNDING DETAILS

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E-4