

GOOGLE FIBER PHX HUT 117 SITE IMPROVEMENT PLANS

7641 E GUADALUPE RD
MESA, AZ 85212

PROJECT INFORMATION

Monday–Saturday 7:30 AM – 6:00 PM
Sunday: 9:00 AM – 6:00 PM

DEVELOPER

GOOGLE FIBER

ENGINEER/APPLICANT

BHC
7101 COLLEGE BLVD, STE 400
OVERLAND PARK, KS 66210

CONTACT: ROBERT VACCARO, P.E.
PHONE: (913) 663-1900
EMAIL: ROBERT.VACCARO@IBHC.COM

PROPERTY INFORMATION

OWNER: AEI SOSSMAN, LLC
ADDRESS: 7641 E GUADALUPE RD
MESA, AZ 85212

ZONING: LC – LIMITED COMMERCIAL
EXISTING USE: STRIP MALL PROPERTY
PROPOSED USE: FIBER UTILITY HUT

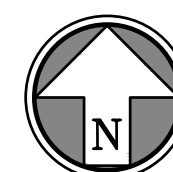
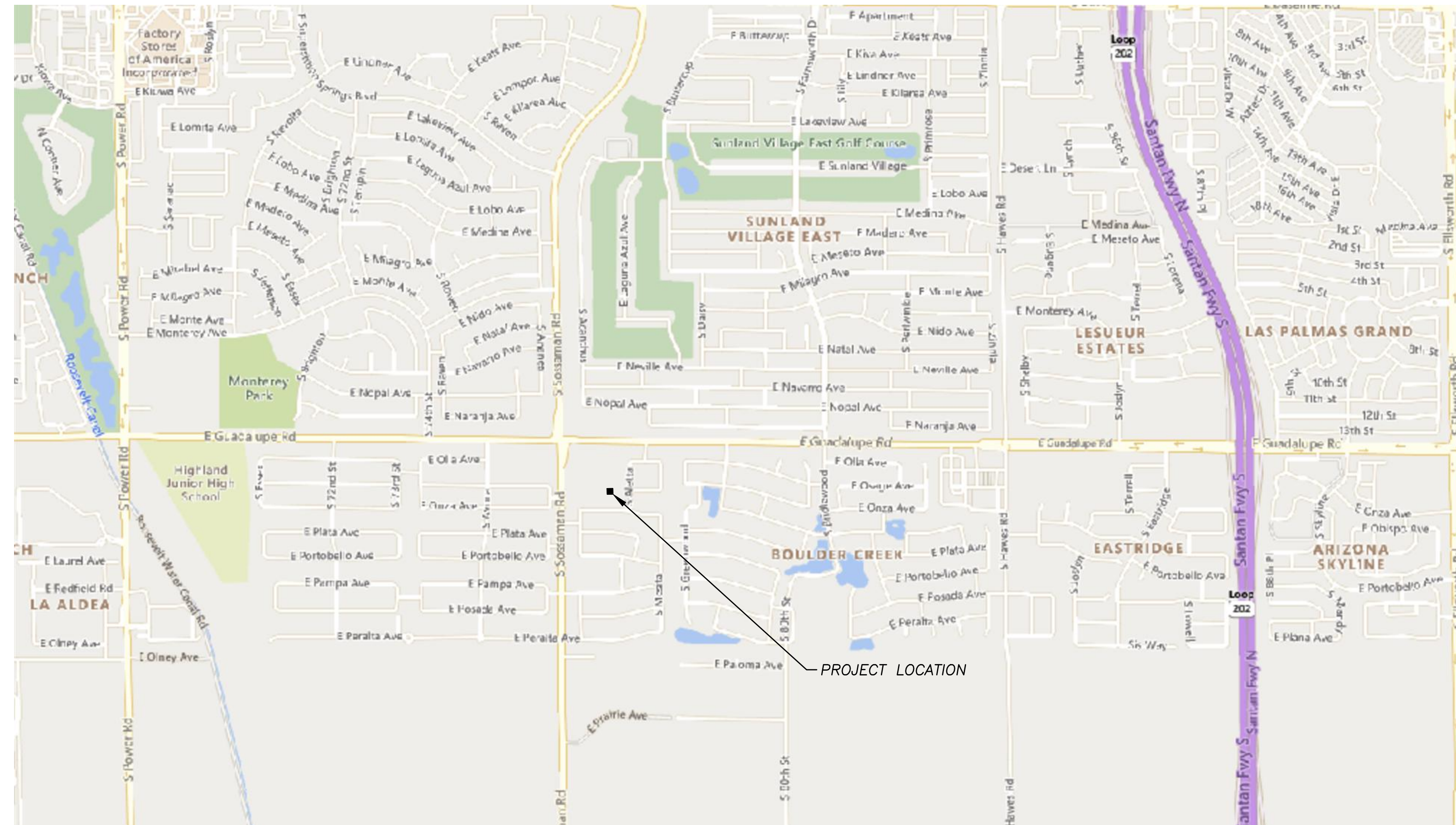
BUILDING AND SITE DATA

COMPOUND AREA: 2080 SF
PROPOSED BUILDING:
AREA: 360 SF
HEIGHT: 11 FT

UTILITY CONTACTS

POWER
CONTACT: TBD
PHONE:
EMAIL: NAME@EMAIL.COM

GAS
CONTACT: TBD
PHONE:
EMAIL: NAME@EMAIL.COM



VICINITY MAP

Sheet List Table	
Sheet Number	Sheet Title
COV	COVER SHEET
GEN	GENERAL NOTES
SUR	SURVEY
C1.0	DEMOLITION PLAN
C2.0	OVERALL SITE PLAN
C2.1	SITE PLAN
C3.0	GRADING PLAN
D1.0	DETAILS
D1.1	DETAILS 1.1
D1.2	DETAILS 1.2
D1.3	DETAILS 1.3

PREPARED & SUBMITTED BY:

BHC
Overland Park, Kansas

APPROVED BY:

CITY OF MESA

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GOOGLE FIBER INC.

GOOGLE FIBER HOT FAX 117
7641 E GUADALUPE RD
MESA, AZ 85212

**BOARD OF ADJUSTMENTS SUP
SITE IMPROVEMENT PLANS
COVER SHEET**

Design: RSV	Drawn: TBW
Checked:	RSV
Issue Date:	3/13/2023
Project No.:	032030, 74.01

of 12

COV

Mar 29, 2023 -- 10:56am Plotted By: Robert Vaccaro T:\032030\74.01 GF PHX HUT 117\DWG\Eng\Sheet\PHX 117-SHVS-GENL.dwg Layout: GENERAL NOTES

GENERAL NOTES:

- 1.All work shall be done in accordance with the latest version of the City of Mesa’s Standard Specifications for Construction, unless noted otherwise in these plans.
- 2.The Contractor shall obtain all required permits prior to commencing construction.
- 3.Any work adjacent to or crossing existing streets requires proper traffic control devices. Traffic Control devices shall be placed in accordance with the Manual of Uniform Traffic Control Devices (MUTCD).
- 4.Any waste materials generated during construction shall be removed from the site by the Contractor and disposed of in accordance with all local, state, and federal regulations governing such disposal.
- 5.The Contractor shall prevent any trash, debris, or liquid wastes form being disposed of in sanitary sewers, storm sewers, or open drainage systems.
- 6.The Contractor shall be solely responsible to protect adjacent property, structures, and other improvements from damage during construction. In the event of damage to adjacent property, structures, or improvements, the contractor shall repair or replace such damage to the Owner’s satisfaction at the Contractor’s expense.
7. (A) Contractor will use photo or video documentation to validate the condition of the site before mobilization. This documentation shall include all areas to be disturbed, as well as all points of ingress and egress for all materials and equipment. This documentation shall be submitted to the Construction Manager prior to mobilization of site.
(B) In the case that damage occurs to any property or improvement, public or private, on or off the site, as a result of Contractors use of the site, Contractor shall repair or replace damaged property or improvement to the condition equal to or better than the undamaged condition, at the Contractor’s expense.
(C)Contractor shall keep the work site free of trash and mud and in orderly appearance at all times. Debris and unsuitable material shall be promptly removed. Final cleanup shall be completed immediately after completion of work within an area. All equipment, trash, and unused material shall be removed and the entire limits of construction left in a neat and finished condition.
- 8.All work and materials used in the construction of the improvements shown hereon shall comply with standard specifications and plan notes.
- 9.All Buildings are shown as a reference only. All buildings shall be constructed and installed per the fiber hut manufacturer and vendor specifications.
10. Boundary information, existing utilities, and topographic features shown are according to the best information available to the engineer. However all utilities actually existing may not be shown. The contractor shall be responsible to field verify existing topographic features and existing utility locations and report any discrepancies to the owner and engineer prior to beginning construction activates.
11. All cable lengths shown on plans are approximate and should be field verified prior to construction.
12. Contractor shall restore any grass areas disturbed during construction to existing condition or better.

UNDERGROUND FIBER CONDUIT

1. ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
2. CONDUITS ARE DIAGRAMMATIC IN NATURE, CONTRACTOR SHALL RUN CONDUITS USING BEST PRACTICES IN ACCORDANCE WITH ALL STATE AND LOCAL CODES.
3. ALL FIBER CONDUITS SHALL BE BURIED A MINIMUM OF 24” BELOW FINISHED GRADE.
4. ALL FIBER CONDUITS SHALL BE INSTALLED WITH ½” MULETAPE AND SHALL BE CAPPED AFTER ENTERING EVERY VAULT.
5. ALL VAULTS SHALL BE CONNECTED BY UNDERGROUND CONDUITS.
6. ALL CONDUITS SHALL HAVE #6 SOLID HMWPE .045MIL ORANGE TRACER WIRE INSTALLED EXTERIOR TO THE CONDUIT TO LOCATE CONDUITS.

EROSION CONTROL GENERAL NOTES:

1. The Contractor shall implement Best Management Practices (BMP’s) as indicated on the erosion control plan. The contractor shall adjust and supplement the BMP’s as needed due to ongoing construction activities.
2. The Contractor must modify the plan if the plan fails to substantially control erosion and offsite sedimentation. Plan modifications due to ineffectiveness must be fully documented and approval secured from the permitting authority as soon as practicable. The contractor may modify the plan or construction sequence if implementation is infeasible for site conditions or contractor methods. Any such modification shall control erosion and offsite sedimentation to the maximum extent practicable.
3. Contractor shall be responsible for keeping all adjacent Roadways, Properties, and Utility lines free of mud, silt and debris. Contractor shall remove any such materials and clean any facilities that are impacted by the construction activities on the site.
4. Contractor shall be responsible for ongoing maintenance of sediment and erosion control measures during all phases of construction until the project is accepted by the Owner and the Authorities having Jurisdiction. Maintenance includes replacement of damaged or failing BMP’s on an as-needed basis.
5. The Contractor shall perform inspections of erosion and sediment control measures at least once per week and within 24 hours following each rainfall event of 1/2” or more within a 24–hour period.
6. Contractor shall install and maintain construction entrances to reduce tracking of mud and debris onto adjacent roadways. Contractor shall direct all subcontractors, deliveries, and personnel to access the site via the construction entrances.
7. Temporary seed shall be applied in areas where work has ceased and will not resume within 14 calendar days.
8. Seeded Areas shall be checked regularly and maintained as required by mowing and re–seeding.
9. The Contractor shall provide an adequate concrete washout pit and detain all wash–water on–site.
10. Silt Fence shall be repaired to original conditions. Sediment shall be removed from silt fences once sediment builds to 1/3 of the height of the silt fence.
11. Install erosion control measures per plan prior to any site work. Remove once site vegetation has reached minimum 70% stability.

LEGEND

	EXISTING TELECOM STRUCTURE		EASEMENT FOR FACILITIES
	EXISTING TELEPHONE LINE		PROPOSED SILT FENCE
	EXISTING CABLE TV LINE		PROPOSED CHAIN LINK FENCE
	EXISTING OVERHEAD ELECTRIC LINE		PROPOSED CONDUIT LINE
	EXISTING UTILITY POLE		PROPOSED GROUNDING GRID
	EXISTING GUY ANCHOR		PROPOSED UNDERGROUND ELECTRIC LINE
	EXISTING WIRE FENCE		PROPOSED UTILITY POLE
	EXISTING GUARD RAIL		SLOPE ARROW
	EXISTING GRADE CONTOURS		FINISH GRADE 5’ CONTOURS
	NEIGHBORING LINE LOCATION		FINISH GRADE 1’ CONTOURS
	PROPERTY LINE LOCATION		FINISHED FLOOR ELEVATION
	HIGHWAY RIGHT–OF–WAY LOCATION		TOP OF GRADE ELEVATION
	FIBER OPTIC CABLE (INSTALLED BY OTHERS)		EASEMENT
	FIBER VAULT (INSTALLED BY OTHERS)		SQUARE FEET
			KEYNOTE
			PROPOSED GRAVEL SURFACE

MESA CONSTRUCTION NOTES:

- a. "Comply with all provisions and requirements of Mesa Building Code (MBC) Chapter 33 – Safeguards During Construction, Mesa Fire Code (MFC) Chapter 33 – Fire Safety During Construction and Demolition, and NFPA 241 for items not specifically addressed by MFC Chapter 33."
- "Fire apparatus access roads are essential during construction to allow emergency response to the site for both fire and medical emergencies. Access roads shall be in place prior to the start of vertical construction. It is important to develop access roads at an early stage of construction to allow for fire department access to the site in the case of fire or injury."
- b. "Required fire apparatus access road during construction or demolition shall comply with Mesa Fire and Medical Department standard detail FPD 3310.1. The access road shall be a minimum of 20 feet wide of all–weather driving surface, graded to drain standing water and engineered to bear the imposed loads of fire apparatus (78,000 lbs. / 24,000 lbs. front axle, 54,000 lbs. rear axle) when roads are wet.
- The access road shall extend to within 200 feet of any combustible materials and/or any location on the jobsite where any person(s) shall be working for a minimum of four (4) continuous hours in any day. A clearly visible sign marked "Fire Department Access", in red letters, shall be provided at the entry to the access road.
- All open trenches shall have steel plates capable of maintaining the integrity of the access road design when these trenches cross an access road.
- These access roads may be temporary or permanent. This policy applies only during construction and/or demolition. Permanent access per the MFC shall be in place prior to any final inspection or certificate of occupancy."
- c. "Water supply for fire protection. An approved water supply for construction site shall meet the requirements of MFC Appendix Chapters B and C. The minimum fire flow requirement when contractor or developer brings combustible materials on site is 1,500 gpm at 20 psi. At least one fire hydrant shall be within 500 feet of any combustible material and capable of delivering the minimum fire flow requirement. This hydrant or hydrants may be either temporary or permanent as the project schedule permits.
- In addition, there are times when hydrants and valves must be closed temporarily for repair work or construction of the water system. The developer/contractor is responsible for ensuring that the water supply is always available. When the work is complete, developer/contractor shall make sure that the fire hydrants are active, and the valves are open."

Prepared For:

GOOGLE FIBER INC.

GOOGLE FIBER HUT PHX 117
7641 E GUADALUPE RD
MESA, AZ 85212
BOARD OF ADJUSTMENTS SUP
SITE IMPROVEMENT PLANS
GENERAL NOTES

Design: RSV Drawn: TBW
Checked: RSV
Issue Date: 3/13/2023
Project No.: 032030.74.01

2 of 12

GEN

App.

By

Description

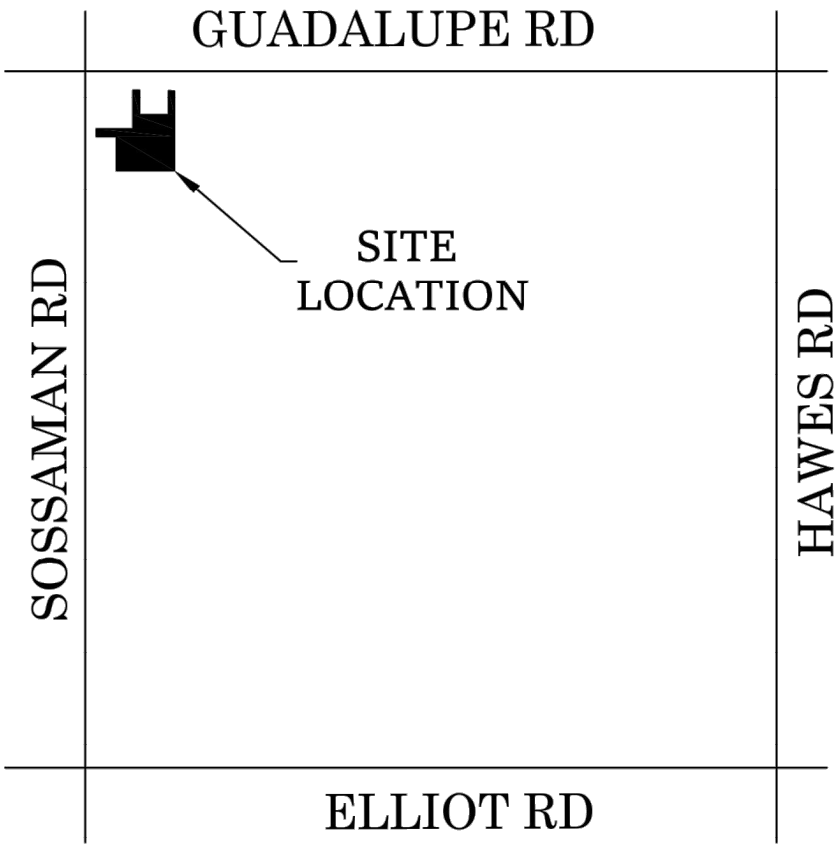
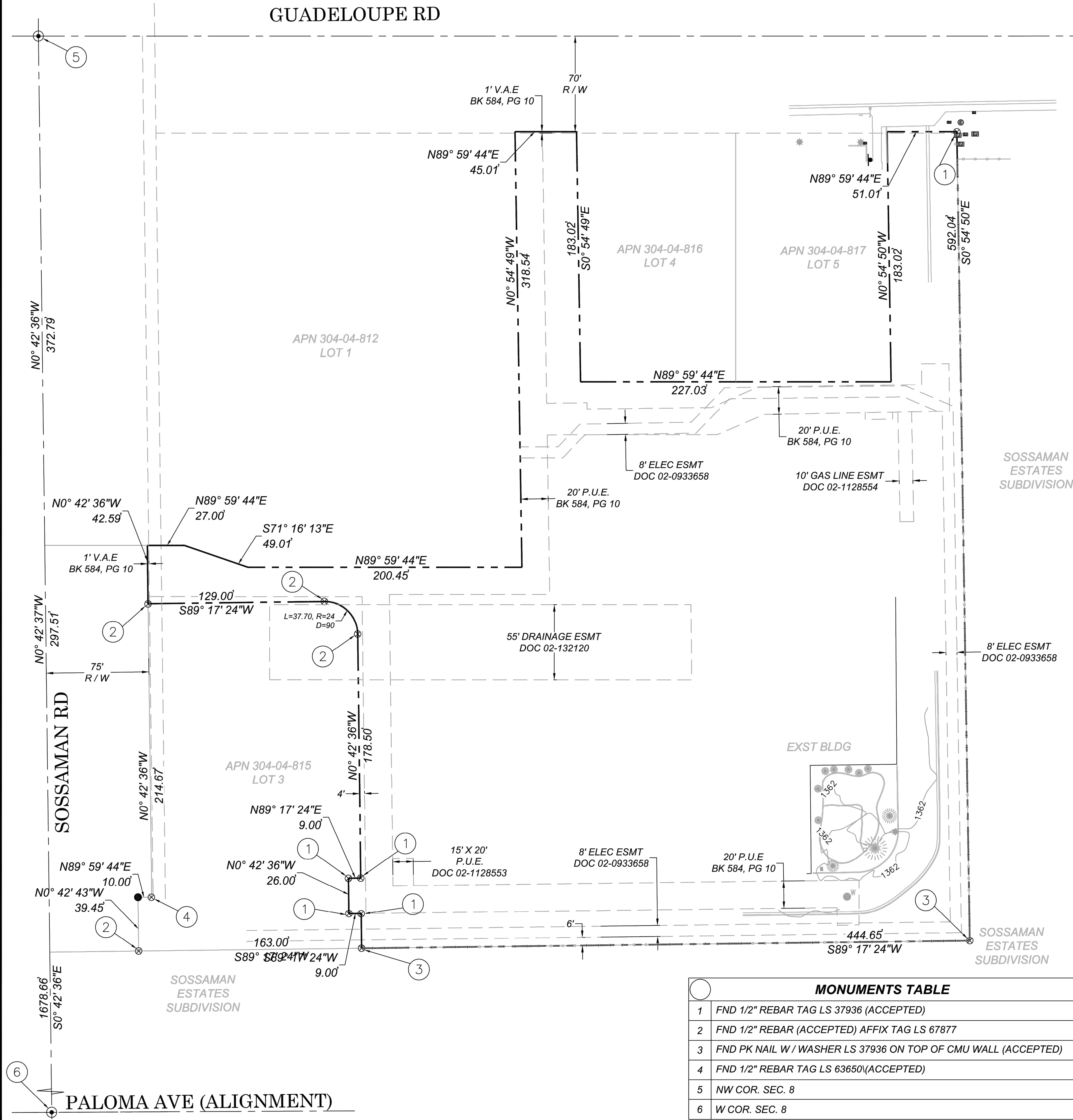
Date

Rev.

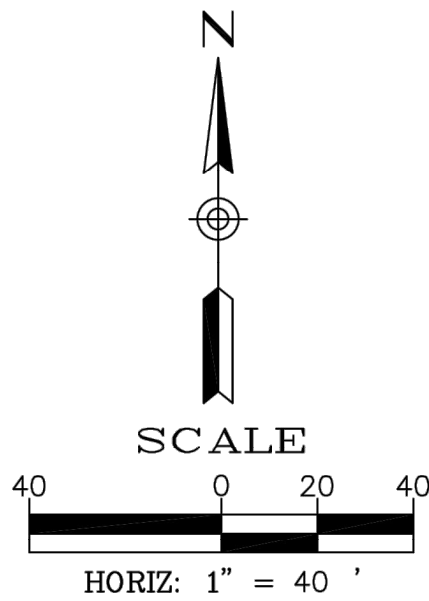
BOUNDARY / TOPOGRAPHIC SURVEY

7641 E GUADALUPE RD MESA 85212

A PORTION OF THE NORTHWEST QUARTER OF SECTION 8, TOWNSHIP 1 SOUTH, RANGE 7 EAST OF THE GILA
AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA



VICINITY MAP
NOT TO SCALE



LEGEND

- SET 1/2" REBAR TAG LS 67877
- ⊗ FND COM BC IN HH SEC. COR.
- ⊗ FND PROPERTY CORNER AS NOTED
- ⊗ ELECTRIC JUNCTION BOX
- ⊗ SEWER MANHOLE
- ⊗ QUEST UTILITY BOX
- ⊗ LIGHT
- ⊗ LIGHT POLE
- ⊗ TREE
- ROAD CENTERLINE
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- FENCE WALL
- R / W RIGHT OF WAY
- A.P.N. ASSESSOR PARCEL NUMBER
- BC BRASS CAP
- COM CITY OF MESA
- HH HAND HOLE

PROPERTY

APN 304-04-814
ZONING LC
ADDRESS: 7641 E
GUADALUPE RD
MESA 85212
AREA : 189,140.00 SF
= 4.34 ACRES

OWNER OF RECORD

AEI SOSSAMAN LLC
MAILING ADDRESS: 11000 SANTA MONICA BLVD
STE 260 LOS ANGELES CA USA 90025

BENCHMARK

FD 3" MESA BC IN HH 0.5' DN STAMPED "T1S R7E 7NE".
GUADALUPE RD AND SOSSAMAN RD
ELEV 1,359.291
NAVD 88

LEGAL DESCRIPTION

LOT 2, OF THE SHOPS AT SOSSAMAN - AMENDED, ACCORDING TO THE
PLAT OF RECORD IN THE OFFICE OF THE COUNTY RECORDER OF
MARICOPA COUNTY, ARIZONA, RECORDED ON JUNE 25, 2003 IN BOOK
641 OF MAPS, PAGE 9.

CERTIFICATION

I, RAED DALBIK, RLS, HEREBY CERTIFY THAT I AM A REGISTERED
LAND SURVEYOR IN THE STATE OF ARIZONA; THAT THIS EXHIBIT
CONSISTING OF 1 SHEET IS CORRECT AND ACCURATE TO THE BEST OF
MY KNOWLEDGE AND BELIEF; THAT THE BOUNDARY MONUMENTS EXIST
AS SHOWN AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE
RETRACED; THAT THE CONTROL POINTS AND PARCEL CORNERS ARE
SET AS SHOWN. DATE: 2/2/23 REED DALBIK, RLS NO. 67877

SURVEYOR

J.L.D ENGINEERING PLLC
2822 S BUCKSKIN WAY
CHANDLER AZ 85286
602-790-7958
CONTACT: REED DALBIK,
PE. PS.

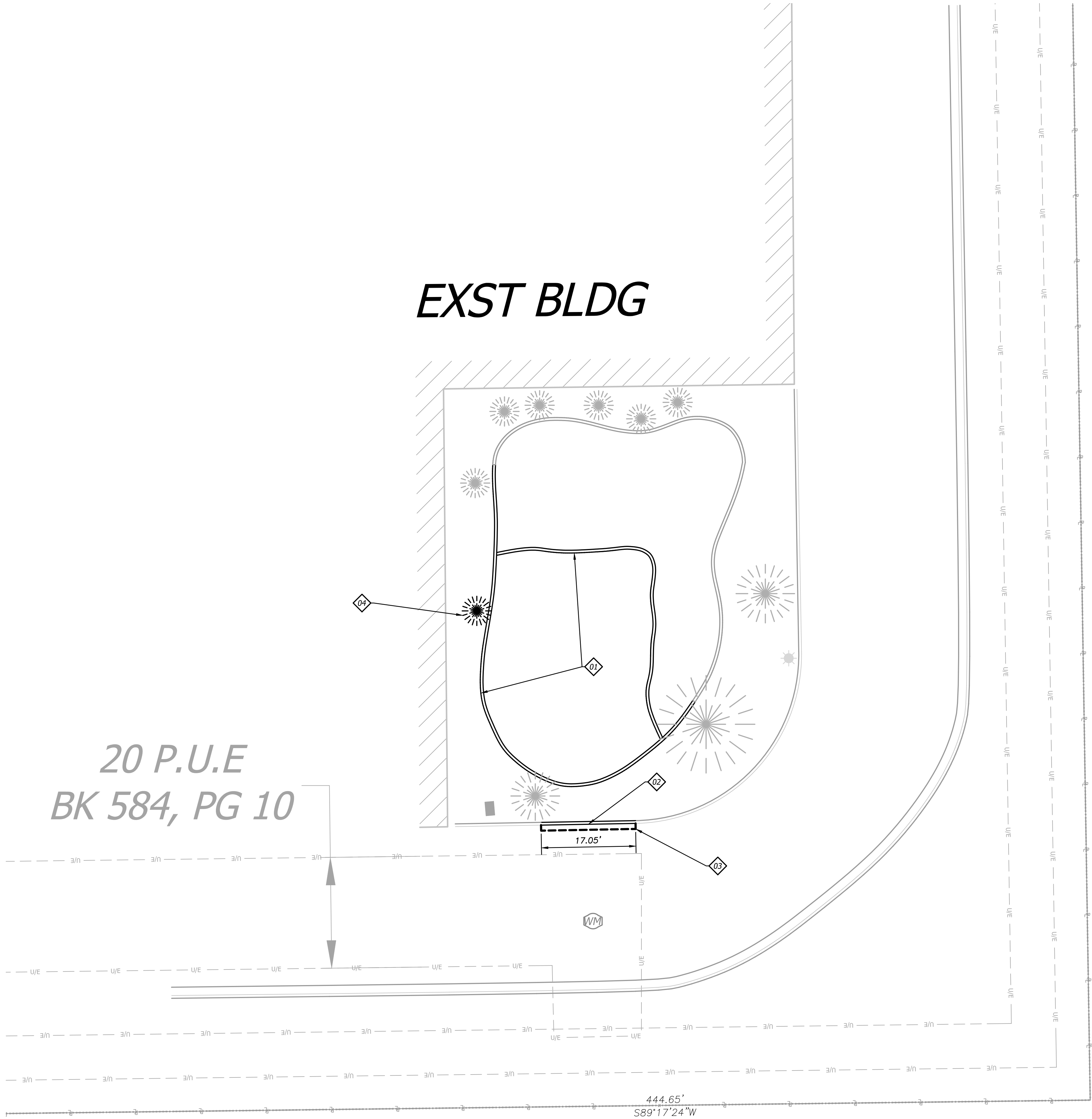
J.L.D. ENGINEERING
2822 SOUTH BUCKSKIN WAY
CHANDLER, AZ 85286
(602) 790-7958



BOUNDARY / TOPOGRAPHIC
SURVEY
7641 E GUADALUPE RD MESA 85212

SCALE:	1"=40'
SECTION:	8
TOWNSHIP:	1S
RANGE:	7E
JOB NO.:	23-18
SHEET	
1 OF 1	

Mar 29, 2023 -- 10:57am Plotted By: Robert Vaccaro T:\032030.74.01 GF PHX HUT 117\DWG\Eng\Sheet\PHX HUT 117-DEMO.dwg Layout: DEMOLITION PLAN



GENERAL NOTES

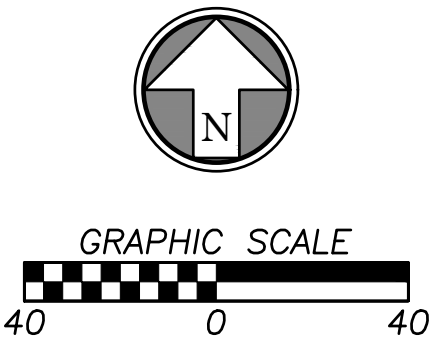
- Contractor shall verify the location, size, material and depth of all utilities prior to any excavation or construction activity.
- All materials shall be removed and disposed of off-site. It is the contractors responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- The Contractor shall ensure that any structures to remain which are damaged during demolition operations shall be repaired to meet current code, at no additional cost to the owner.
- The Contractor shall remove any and all existing debris which is encountered from the existing site. This shall include, but shall not be limited to, footings, concrete slabs, conduits, granular subgrade, utility services, and/or unsuitable structural fill material as determined by the owner's engineer. The cost for these removals shall be considered incidental to the project. Said debris shall become property of the contractor and it shall be the responsibility of the contractor to dispose of properly off-site.
- It shall be the Contractor's responsibility to meet all applicable laws and regulations pertaining to the disposal of construction/demolition material.
- The Contractor shall be responsible for obtaining and payment of any permits for demolition that pertain to this project.
- All protection fencing shall be installed prior to demolition/construction activity. The Contractor shall provide a 6-foot security fence around the entire job site with locked gated access points, if required by the owner or the city.
- All existing utilities removed during construction shall have their trenches backfilled with structural fill and be compacted to the requirements for structural fill.
- All removals required to properly perform the work (whether shown on the plans or not) shall be performed by the Contractor at no additional cost to the owner.

DEMOLITION NOTES

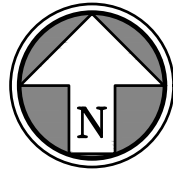
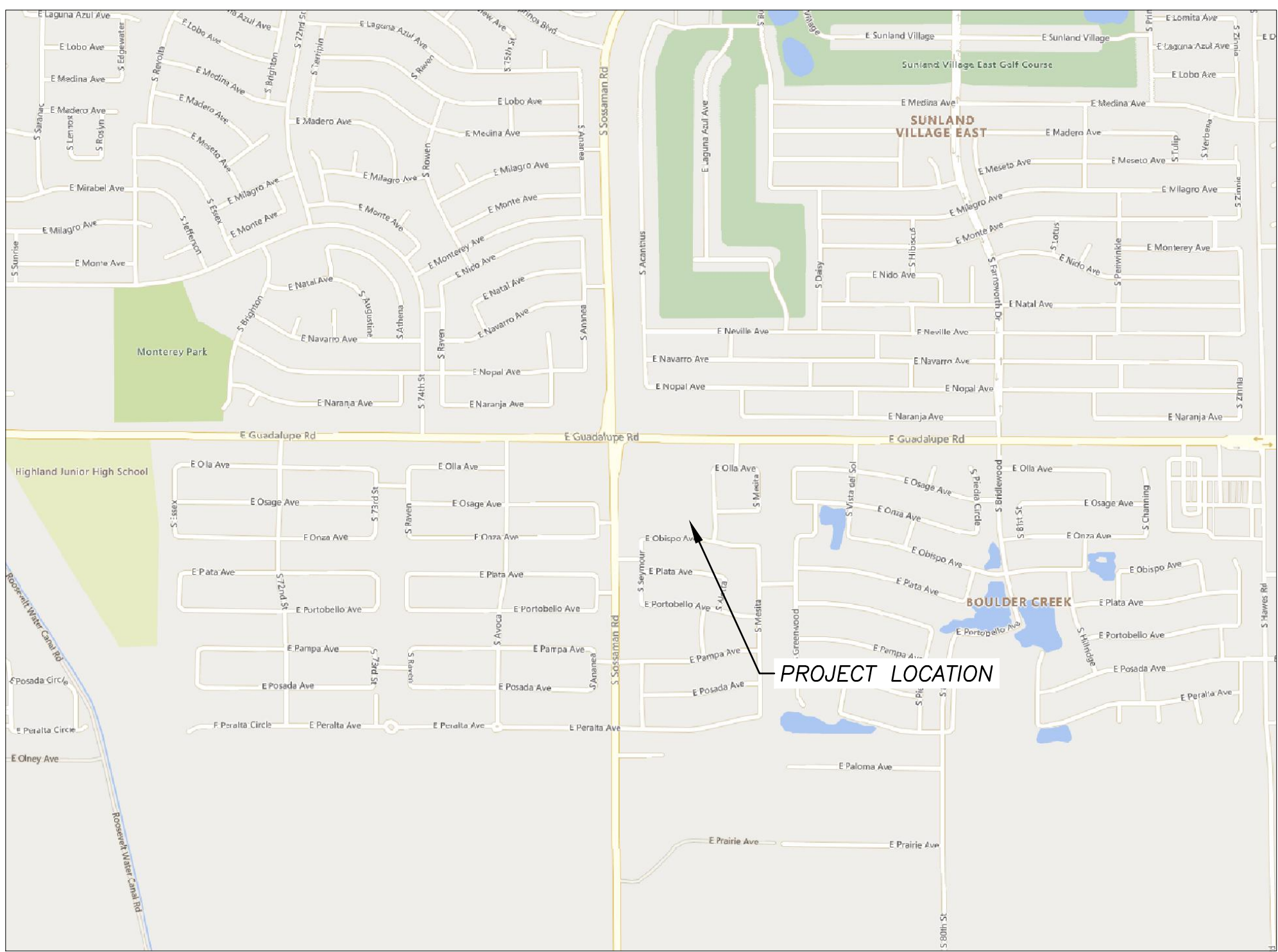
- REMOVE & DISPOSE OF EXISTING LANDSCAPING CURB
- REMOVE & DISPOSE OF EXISTING CURB.
- SAW CUT EXISTING PAVEMENT TO FULL DEPTH AND CLEAN EDGE.
- REMOVE EXISTING BUSH. REPLACE IN-KIND.

DEMOLITION LEGEND

SAW CUT LINE



GOOGLE FIBER HUT PHX 117 7641 E GUADALUPE RD MESA, AZ 85212		GOOGLE FIBER INC.		BHC ENGINEERING / CONSULTING & UTILITIES 7101 Colton Blvd., Suite 400 Overland Park, Kansas 66210 p. 913.663.1800 BHC is a subsidiary of Bransford Research & Company, P.A.		By		App.	
BOARD OF ADJUSTMENTS SUP SITE IMPROVEMENT PLANS DEMOLITION PLAN		Prepared For:		Description		Date		Rev.	
Design: RSV		Drawn: TBW							
Checked: RSV									
Issue Date: 3/13/2023									
Project No.: 032030.74.01									
4 of 12									
C1.0									



VICINITY MAP

PROJECT INFORMATION

HOURS

Monday-Saturday 7:30 AM - 6:00 PM
Sunday: 9:00 AM - 6:00 PM

DEVELOPER

NAME: GOOGLE FIBER
ADDRESS: 380 ASPEN AVE
SALT LAKE CITY, UT 84101
CONTACT: KENT STEINBACH
(417) 839-1020

ENGINEER/APPLICANT

NAME: BHC
ADDRESS: 7101 COLLEGE BLVD, STE 400
OVERLAND PARK, KS 66210
CONTACT: ROBERT VACCARO
(913) 663-1900
ROBERT.VACCARO@BHC.COM

PROPERTY INFORMATION

OWNER: AEI SOSSMAN, LLC
ADDRESS: 7641 E GUADALUPE RD
MESA, AZ 85212

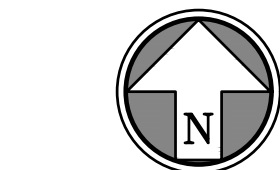
ZONING: LC - LIMITED COMMERCIAL
EXISTING USE: STRIP MALL PROPERTY
PROPOSED USE: FIBER UTILITY HUT

BUILDING AND SITE DATA

LEASE AREA: 2080 SF
COMPOUND AREA: 2080 SF

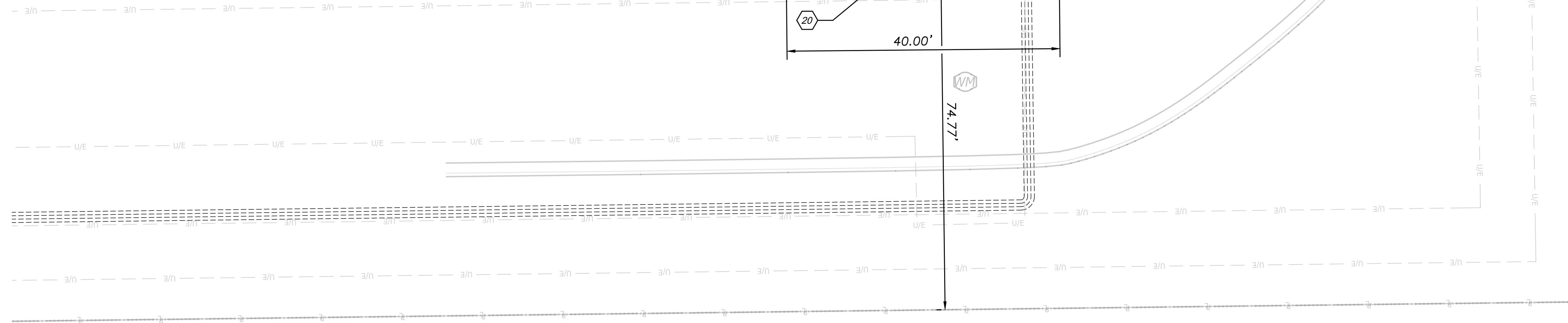
PROPOSED BUILDING:
AREA: 360 SF
HEIGHT: 11 FT

SITE ACCESS:
ACCESS AND PARKING TO UTILIZE
EXISTING PARKING DRIVE AND NEW
GRAVEL DRIVE TO SITE COMPOUND



SCALE: 1"=40'
0 40 80

GOOGLE FIBER HUT PHX 117 7641 E GUADALUPE RD 	
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SITE PLAN

CONSTRUCTION KEYNOTE DESCRIPTIONS:

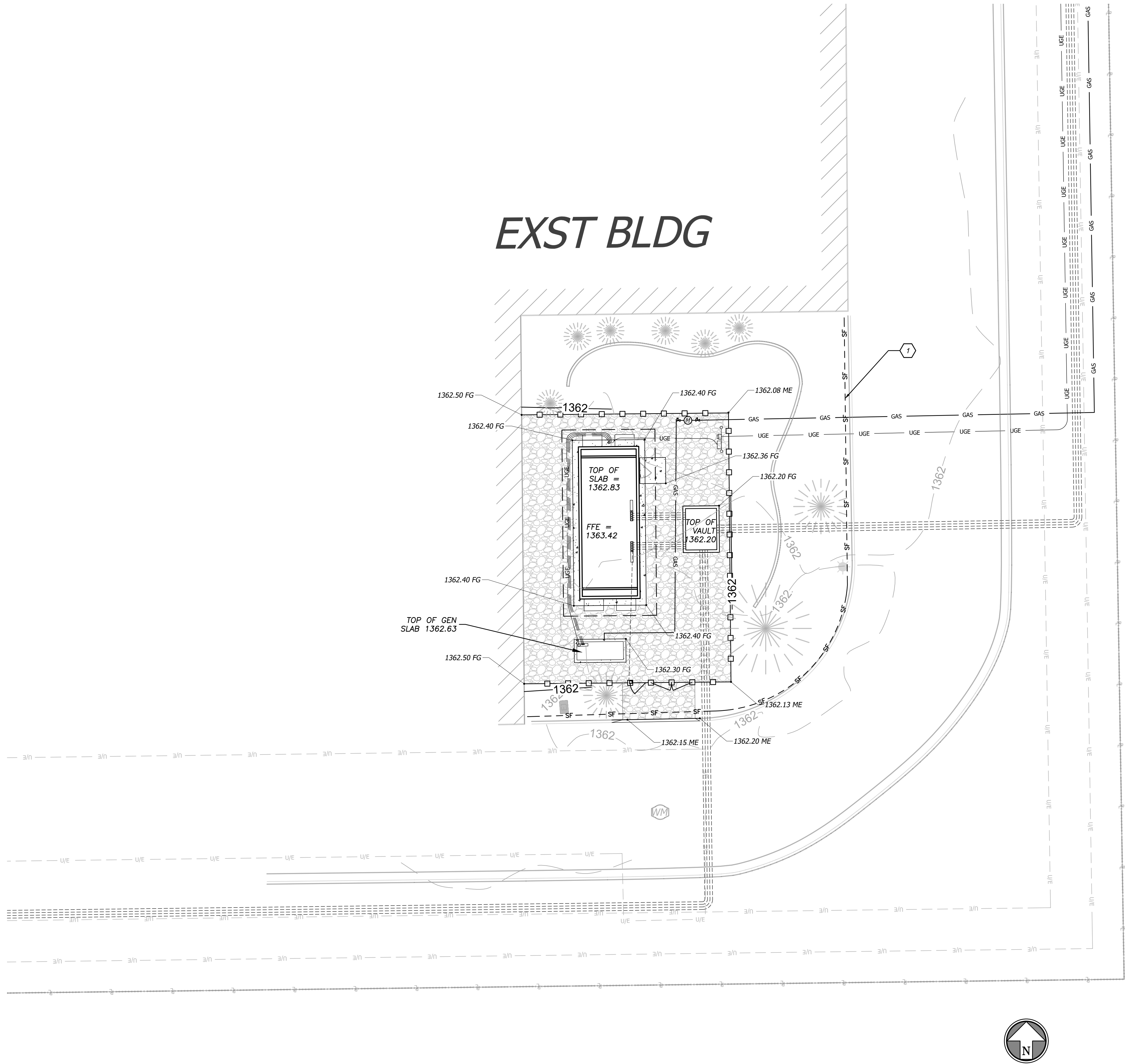
- 1 11'-10" X 29'-7" PRE-MANUFACTURED FIBER HUT TO BE SET BY CONTRACTOR. REFER TO BUILDING MANUFACTURER PLANS.
- 2 CONSTRUCT 14' X 32' SLAB ON GRADE. REFER TO DETAIL 008 (D1.1).
- 3 INSTALL 8' TAN BLOCK STUCCO FINISHED WALL AROUND HUT SITE TO MATCH EXISTING PROPERTY PRIVACY WALL. CONTRACTOR TO SUBMIT WALL DETAIL FOR APPROVAL.
- 4 INSTALL 3' WIDE BLACK SOLID B DECK PANEL MAN GATE AND GATE POSTS. REFER TO SHEET D1.0.
- 5 INSTALL 8' WIDE DOUBLE SWING GATE AND GATE POSTS. REFER TO SHEET D1.0.
- 6 EXCAVATE EXISTING MATERIAL, RECOMPACT SUBGRADE AND INSTALL 6" AGGREGATE WITH GEOTEXTILE FABRIC ON COMPACTED SUBGRADE WITHIN FENCED AREA. REFER TO DETAIL 005 (D1.0).
- 7 CONSTRUCT 4'X5' CONCRETE LANDING AT GRADE. REFER TO DETAIL 007 (D1.1)
- 8 INSTALL GROUNDING GRID REFER TO DETAIL 011 (D1.2) FOR INSTALLATION INFORMATION.
- 9 INSTALL 4'-6"X 10'-0" CONCRETE GENERATOR PAD. REFER TO DETAIL 009 (D1.1).
- 10 SET BACKUP GENERATOR INSTALL PER MANUFACTURERS SPECIFICATIONS.
- 11 INSTALL 4 GENERATOR CONDUITS (1)-4" CONDUIT TO DISCONNECT, (1)-3/4" CONDUIT FOR GENERATOR SECURITY. (1)-1" CONDUIT FOR GENERATOR START CIRCUIT AND ACCESSORIES. (1)-3/4" CONDUIT FOR GENERATOR CONTROLS. CONDUITS TURN UPWARD AT SLAB, PROVIDE CONDUIT LB AND CONNECT TO CONDUITS THAT EXTEND FROM HUT.
- 12 INSTALL (1) - 4" PVC CONDUIT (TYP) WITH 3 #500KCMIL, 1 #1/0 AWG GROUND. PER BUILDING PLANS. CONDUITS TURN UPWARD AT SLAB, PROVIDE CONDUIT LB AND CONNECT TO CONDUITS THAT EXTEND FROM HUT.
- 13 INSTALL 6'x8"x4.75" OLDCASTLE 1119325-01 BELOW GRADE ON SITE UTILITY VAULT WITH LID.
- 14 INSTALL (8) - 4" PVC CONDUIT (TYP) BETWEEN ON SITE VAULT AND CONCRETE SLAB. CONDUITS TO BE INSTALLED THROUGH OPENING IN FLOOR OF HUT. REFER TO DETAIL 007 AND 008 (D1.1)
- 15 INSTALL 4 - 4" PVC CONDUIT FROM ON SITE VAULT TO EACH MEET-ME VAULT LOCATED IN ROW OF GILBERT RD (8 TOTAL CONDUIT) REFER TO PROPERTY PLAN FOR FULL PATH. INSTALL PER DETAIL 008 (D1.1).
- 16 INSTALL GATE SECURITY DEVICE AND (1) - 2" PVC UNDERGROUND CONDUIT FOR SECURITY SYSTEM FROM FENCE TO BUILDING SLAB. CONDUIT TO BE INSTALLED THROUGH OPENING IN FLOOR OF HUT. FOR ADDITIONAL SECURITY INSTALLATION ITEMS REFER TO GOOGLE FIBER HUT SECURITY DESIGN DETAILS (D1.3).
- 17 CONSTRUCT 14' WIDE COMPACTED AGGREGATE DRIVE FROM EXISTING ASPHALT DRIVE TO SITE GATE. REFER TO DETAIL 005 (D1.0).
- 18 GAS METER AND SERVICE LINE LOCATION AND DESIGN TO BE COORDINATED WITH LOCAL UTILITY
- 19 ELECTRIC SERVICE LINE LOCATION AND DESIGN TO BE COORDINATED WITH LOCAL UTILITY
- 20 INSTALL ROLL OVER CURB WITH TRANSITIONS TO EXISTING CURB. REFER TO MAG STANDARD DETAILS 220-1 & 221

LEGEND

-
- PROPOSED SECURITY WALL
 PROPOSED FIBER OPTIC CABLE
 GAS PROPOSED GAS SERVICE LINE
 UGE PROPOSED ELECTRIC SERVICE LINE
 PROPOSED GROUNDING
 PROPERTY LINE
 PROPOSED GRAVEL SURFACE
 EXISTING BUILDING

[illegible]

Mar 29, 2023 - 10:57am Plotted By: Robert Vascaro T:\032030\74.01 GF PHX HUT 117\DWG\Eng\Sheet\PHX HUT 117-PRE-SUBMITTAL.dwg Layout: GRADING PLAN



SITE GRADING & EROSION CONTROL PLAN

LEGEND

- XXX.XX FG TOP OF GRADE
- XXX.XX ME MATCH EXISTING
- SF --- SILT FENCE
- 100 FINISH GRADE 5' CONTOURS
- 101 FINISH GRADE 1' CONTOURS
- 100 EXISTING GRADE 5' CONTOURS
- 101 EXISTING GRADE 1' CONTOURS
- PROPOSED GRAVEL SURFACE

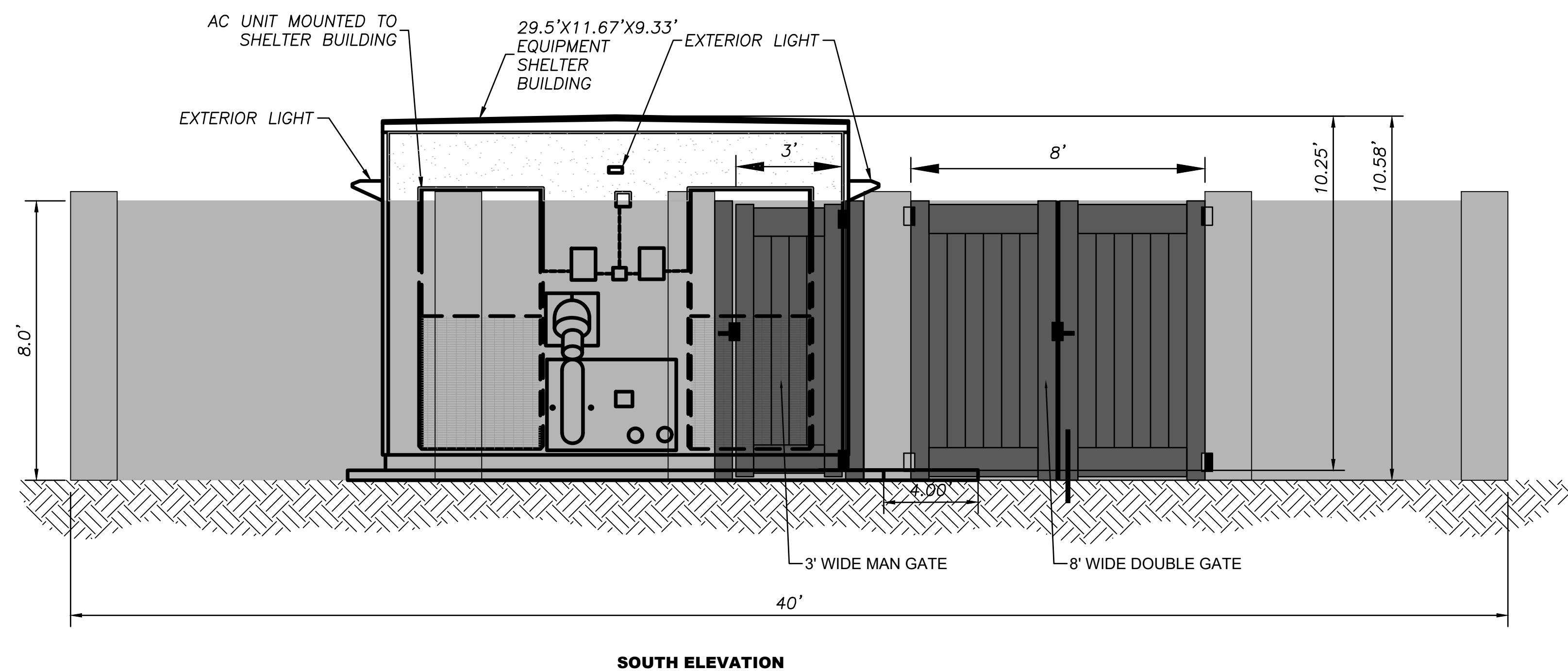
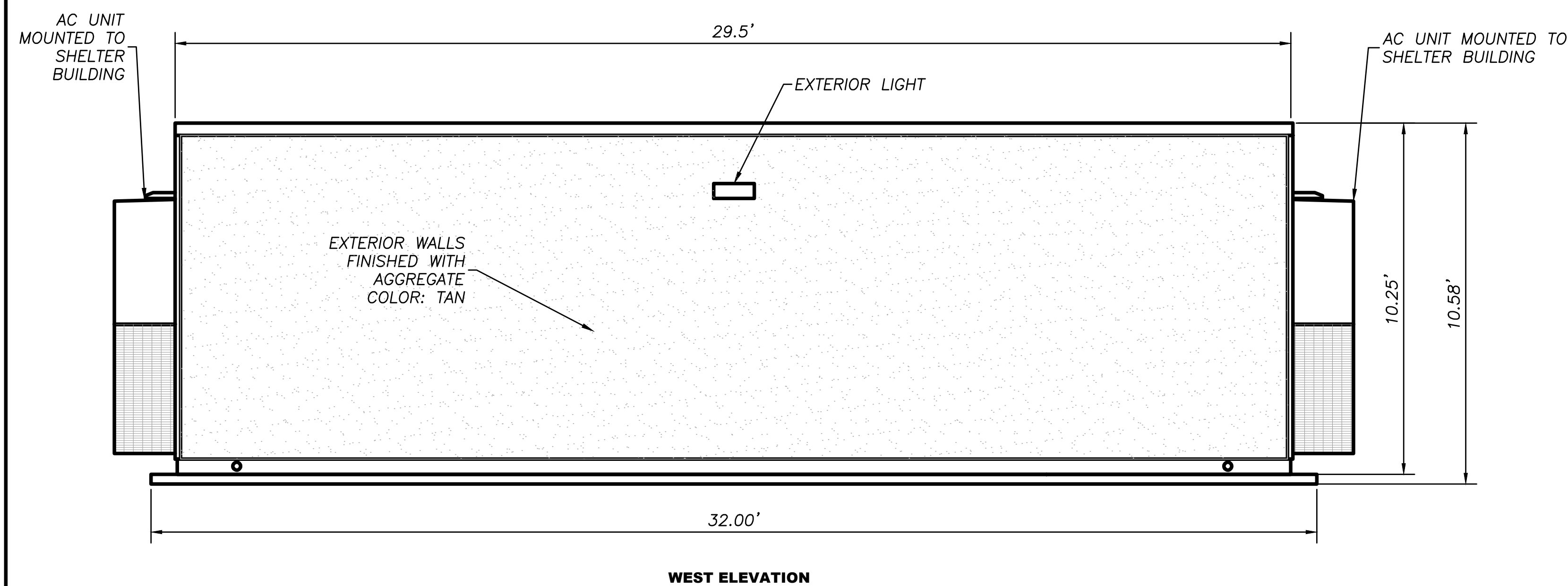
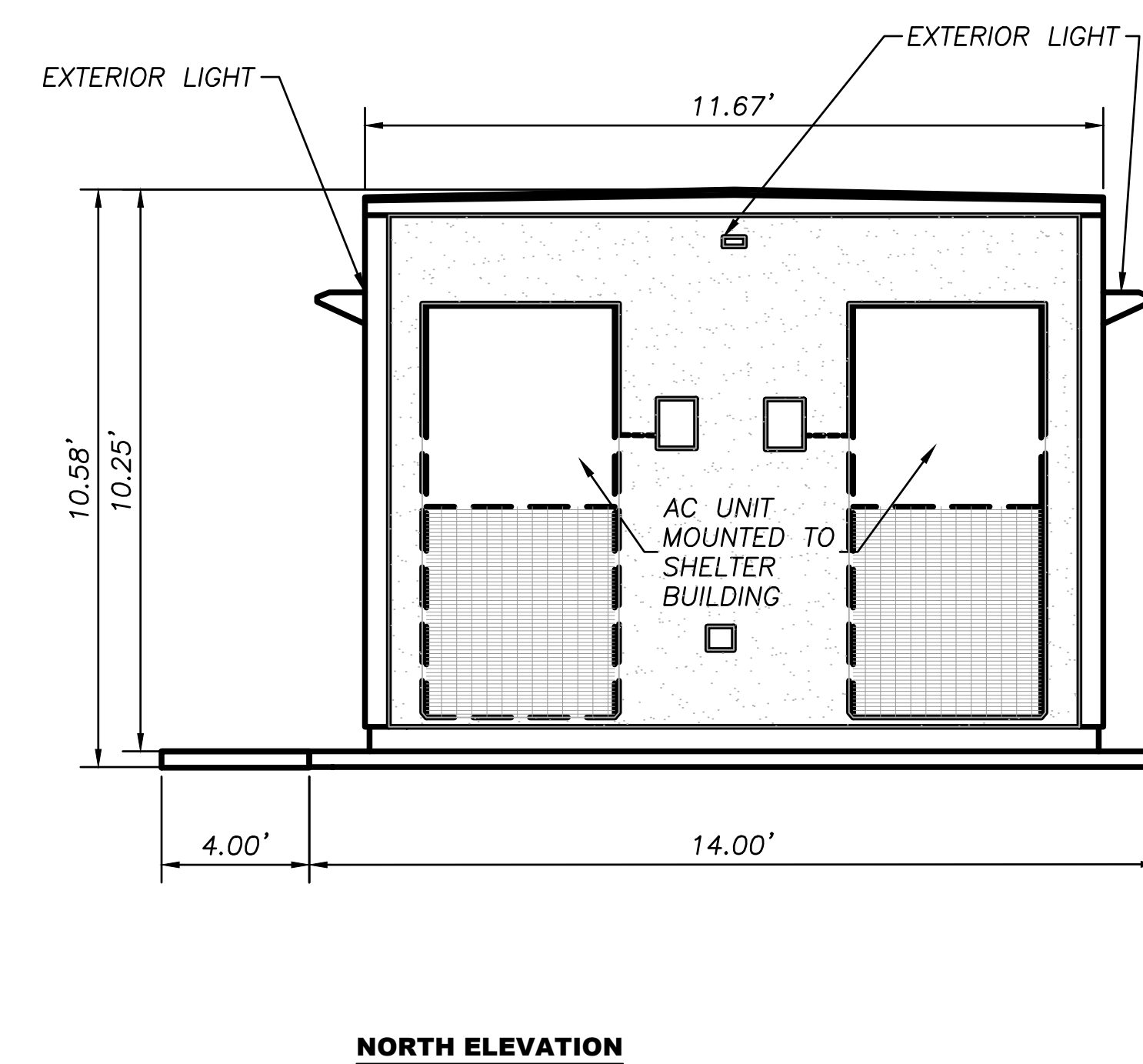
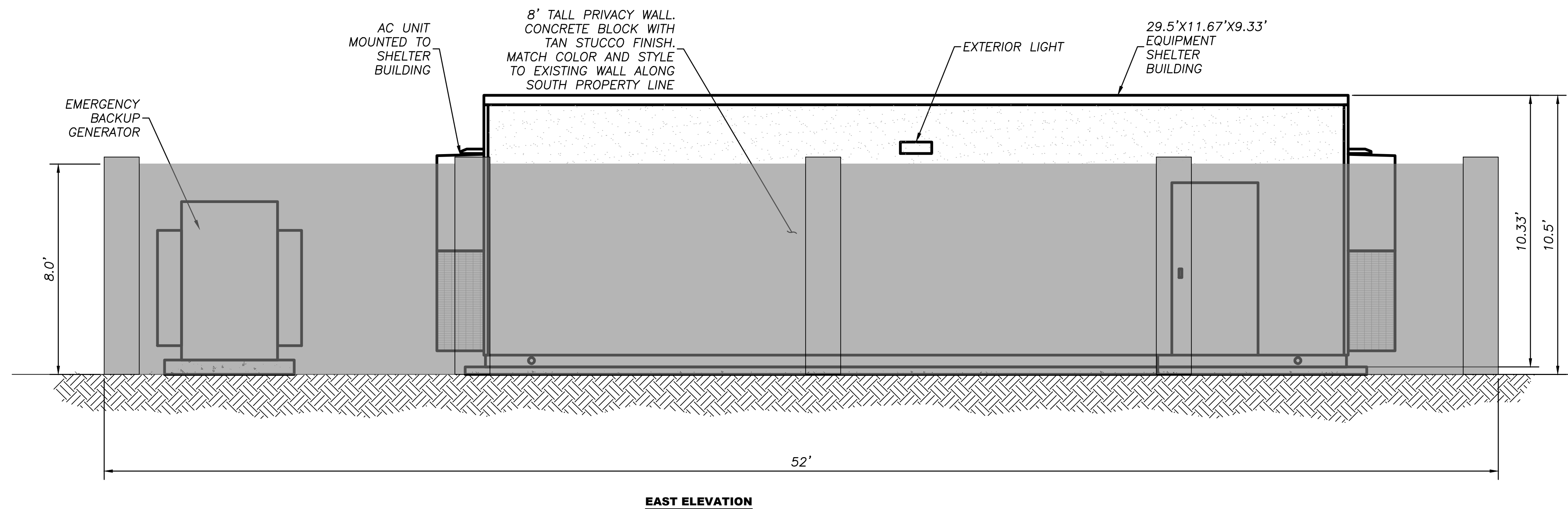
GRADING AND EROSION CONTROL KEYNOTES

- 1. INSTALL APPROX. 130 LF OF SILT FENCE AROUND DISTURBED AREA. REFER TO SILT FENCE DETAIL 004 ON SHEET D1.0.

GRADING NOTES:

- No geotechnical report is available for this project. Design soil bearing value = 1,500 PSF. Foundation excavation shall be inspected and approved by a soils engineer prior to placement of concrete.
- Over excavation of existing unsuitable soils will be required under building foundation. Contractor shall perform over excavation of unsuitable soils as a part of this work.
- Contractor shall obtain soils suitable as structural fill from off-site sources. All borrow materials must be tested and approved by the Geotechnical Engineer prior to importing soils to the project site. Imported fill to be either (1) Lean Clay, USCS Classification CL (LL < 40) or (2) Low volume change, cohesive soil, USCS Classification CL, with LL < 40 and 5 < PI < 15. Place fill in 8" loose lifts when compaction with self-propelled compaction equipment is used and 4" loose lifts when compacting with hand-guided equipment. At the time of placement, compact material to 95% of the maximum dry density and within -2% to +3% of the optimum moisture content as determined by the standard proctor test ASTM D698.
- Contractor shall operate under the terms and permits prepared for this project and permitted through the City of Mesa and the State of Arizona. Contractor shall employ a qualified person to conduct regular inspections of the site erosion control measures and document such inspections.
- All topsoil, vegetation, root structures and deleterious materials shall be stripped from the ground surface prior to the placement of fill. Complete stripping of the topsoil shall be performed at least 5' beyond the proposed building and compound areas to expose the underlying native soils. The exposed soils shall then be thoroughly proofrolled with a fully loaded (at least 20 tons) tandem-axle dumptruck or other heavy rubber-tired equipment in the presence of the geotechnical engineer. Any weak or unstable subgrade soils shall be removed and replaced or aerated/reworked and recompacted in place to meet engineered fill recommendations.
- All proposed contour lines and spot elevations shown are finish ground elevations. Contractor shall account for pavement depths, building pads, topsoil, etc when grading the site. If material will be stockpiled, stabilize/protect the stockpile from erosion with sediment trapping measures such as silt fence.
- All disturbed areas that are not to be paved (green spaces) shall be finish graded with a minimum of six inches of topsoil.
- All excavation and embankments shall comply with the recommendations provided by the Geotechnical Engineer.
- Prior to placing any concrete or aggregate surface the contractor shall perform a proof roll of the sub-grade with a fully loaded (at least 20 tons) tandem axle dump truck. The proof roll shall be conducted in the presence of the Engineer or an On-Site Geotechnical Representative. Areas that display rutting or pumping that are unsatisfactory to the Engineer shall be re-worked and a follow-up proof roll shall be conducted prior to acceptance of the sub-grade for paving. The contractor may, at its own expense, stabilize the sub-grade using Class C fly ash or quicklime.
- Finished grades shall not be steeper than 3:1.
- All grading work shall be considered unclassified. No additional payments shall be made for rock excavation. Contractor shall satisfy himself as to any rock excavation required to accomplish the improvements shown hereon.
- All disturbed areas not to be paved shall be permanently seeded.

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Design: RSV Drawn: TBW		Rev.		App.	
Checked: RSV		Date			
Issue Date: 3/13/2023					
Project No.: 032030.74.01					
7 of 12					
C3.0					



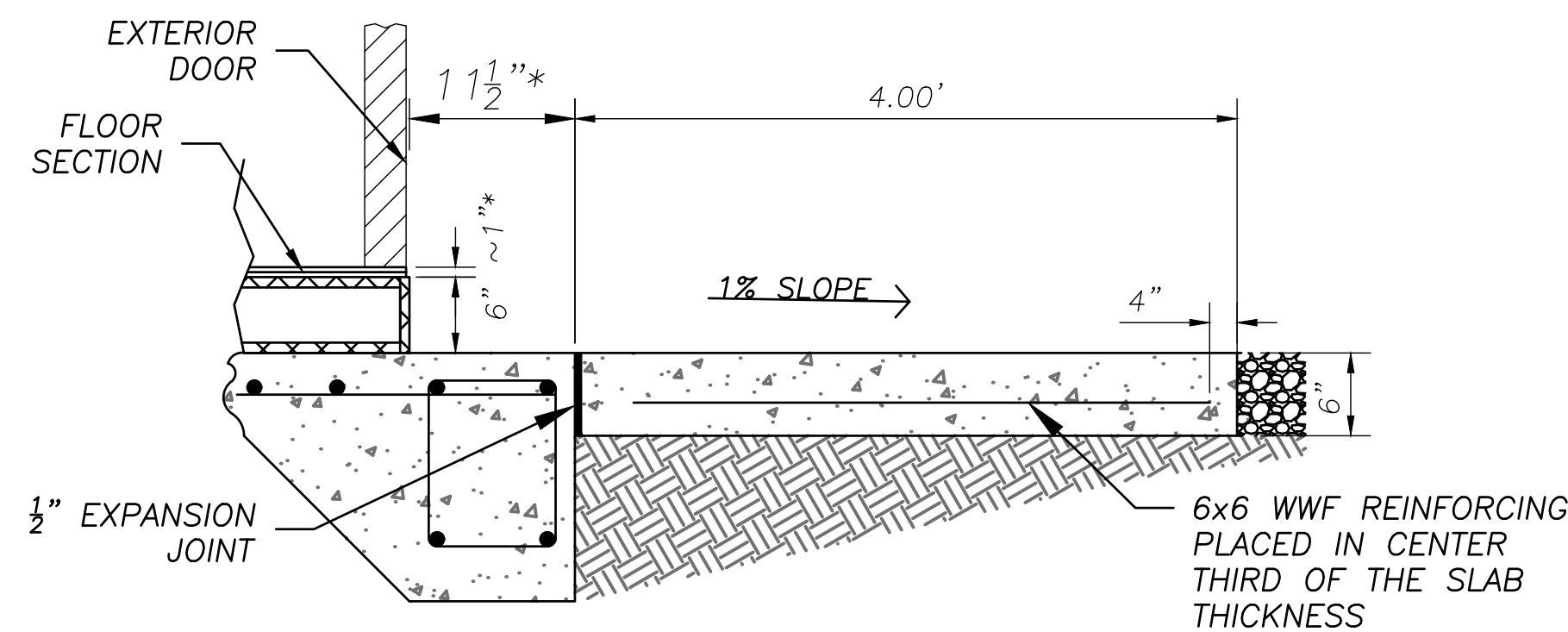
NOTE:

1. REFER TO PHX HUT 117 MATERIALS BOARD EXHIBIT FOR PROPOSED BUILDING, WALL, AND GATE MATERIALS AND COLOR.
2. REFER TO PHX HUT 117 ELEVATION PHOTOS FOR COLOR PHOTO OF EACH SIDE OF THE PROPOSED HUT BUILDING



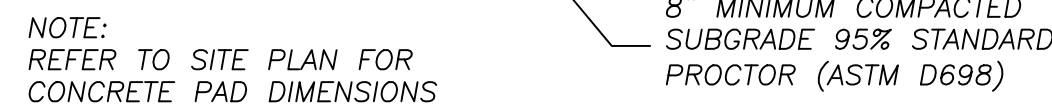
EXISTING PROPERTY WALL TO MATCH

GOOGLE FIBER HUT PHX 117											
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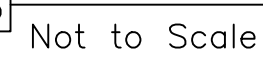


SECTION A-A

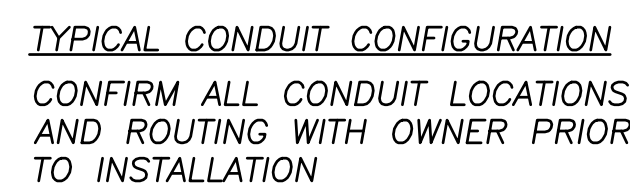
Not to Scale



Not to Scale



1. CONCRETE STRENGTH SHALL BE MINIMUM 4000 PSI.
2. REFER TO BUILDING PLANS FOR SLAB GEOMETRY AND BOX OUT LOCATIONS.
3. VERIFY BOX-OUT LOCATIONS ON SITE WITH OWNER & HUT MANUFACTURER PRIOR TO CONSTRUCTION.
4. FILL MATERIALS SHALL BE PLACED ON THE AREAS TO BE FILLED IN LOOSE LAYERS NOT TO EXCEEDING 8" AND COMPACTED TO 95% AND WITHIN -2% TO +3% OF THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY THE STANDARD PROCTOR TEST. (SEE ALSO GRADING NOTE 3 ON C1.1)
5. ALLOWABLE BEARING PRESSURE OF 1,500 PSF SHALL BE CONFIRMED PRIOR TO PLACING CLEAN AGGREGATE FILL ALONG FOUNDATION BED.



010

Not to Scale

D1.1

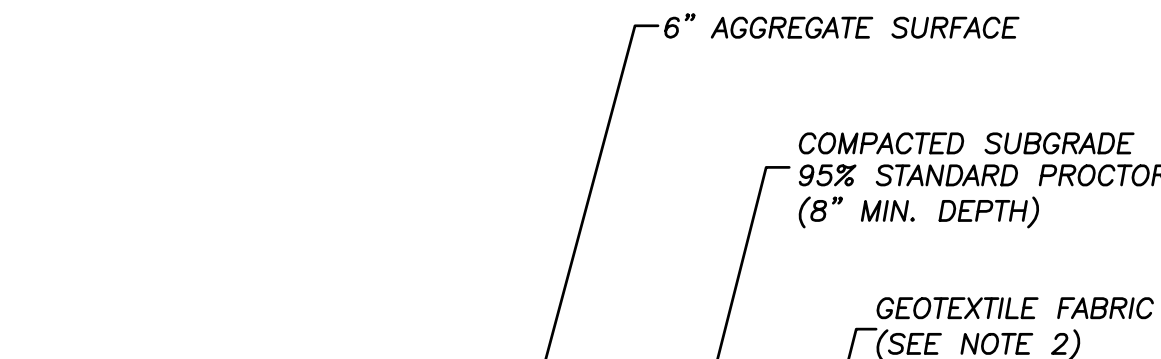


CONNECTION
- INTO BUILDING
SEE NOTE 4

SKID CONNECTION
SEE NOTE 5

- ## Service Grounding Diagram

011



1. AGGREGATE BASE SECTION IS FOR AREA WITHIN THE SITE FENCE. SEE SITE PLAN C1.0 FOR DETAILS.
2. WHERE REQUIRED, PLACE GEOTEXTILE FABRIC BELOW THE GRAVEL, PER MANUFACTURES SPECIFICATIONS AND INSTALLATION GUIDELINES. FILTER FABRIC SHALL BE SKAPS GT-60, MIRAFI 160N OR APPROVED EQUAL
3. AGGREGATE SHALL BE AASHTO #57 OR APPROVED EQUAL.

005

TRENCH

FINISHED GRADE

4'-0"

SEE NOTE 1

SUITABLE MATERIAL COMPACTED TO 95% STANDARD PROCTOR

4" PVC CONDUIT (TYP.)

4" (TYP.)

4" BEDDING SAND ABOVE AND BELOW CONDUIT

1. EXISTING DEPTH MAY BE REDUCED TO A MIN 24" COVER TO AVOID
UNDESIRABLE UTILITIES OR GROUND GRID WHERE NECESSARY.
2. THE BOTTOM OF THE TRENCH MUST BE FREE OF ROCK, CINDERS OR
SHARP OBJECTS.
3. THE BACKFILLED TRENCH SHALL BE FREE OF PEAT, MARL, HIGHLY
PLASTIC CLAY (CH PER ASTM D-2487), OR OTHER UNSUITABLE
MATERIAL SUCH AS TRASH, DEBRIS, BRUSH, FROZEN MATERIAL OR ICE.
4. PLACE FINAL BACKFILL ZONE MATERIAL IN 6-INCH LIFTS AND COMPACT
WITH MULTIPLE PASSES OF A MACHINE, RAMMER, ROLLER, OR VIBRATORY
EQUIPMENT (FOR USE ON SAND AND GRAVEL ONLY) THAT IS
SPECIFICALLY DESIGNED FOR SOIL COMPACTION. COMPACT UNTIL VOIDS
ARE ELIMINATED AND THE COMPACTED SURFACE NO LONGER VISIBLY
YIELDS BENEATH THE COMPACTED EQUIPMENT.
5. RESTORE DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION.
6. ALL DISTURBED EARTH SHALL BE SEEDED OR MULCHED.

006

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D1.2							

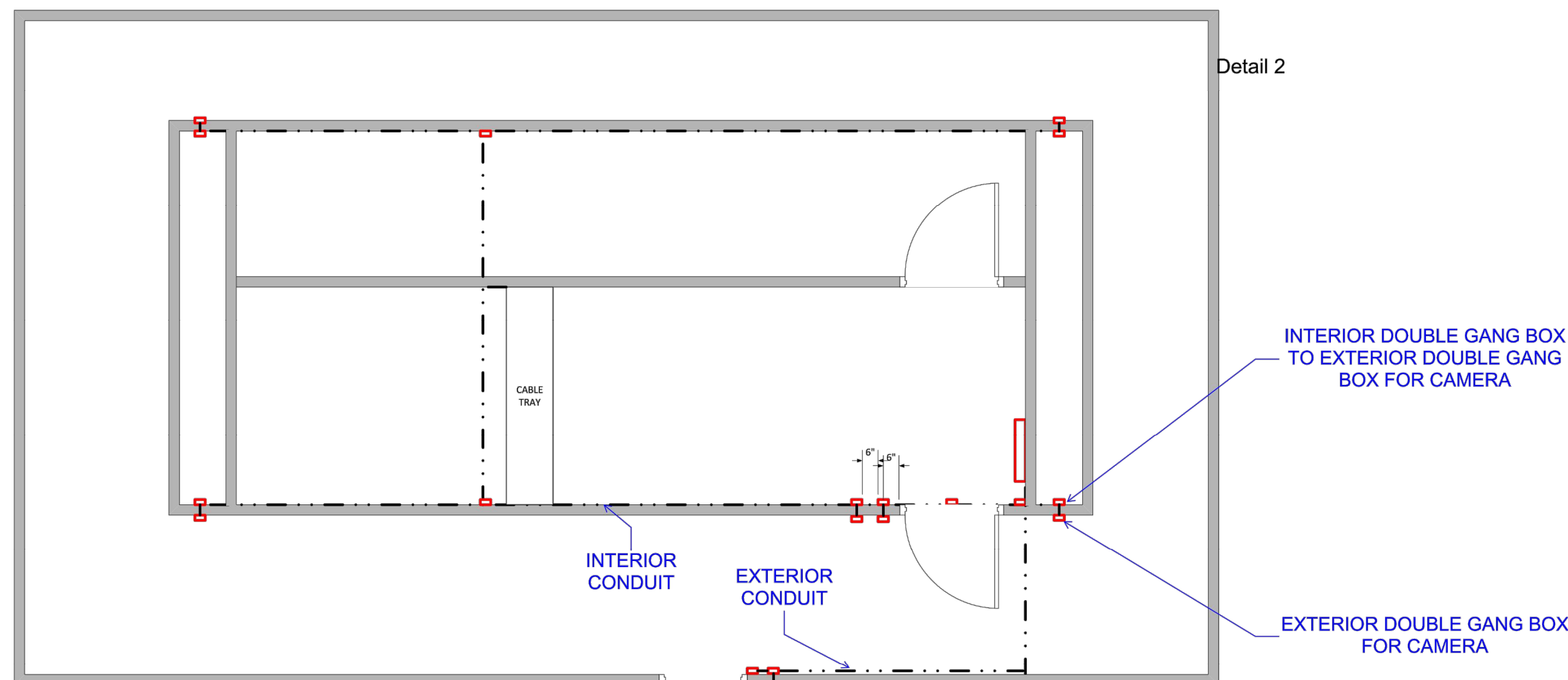
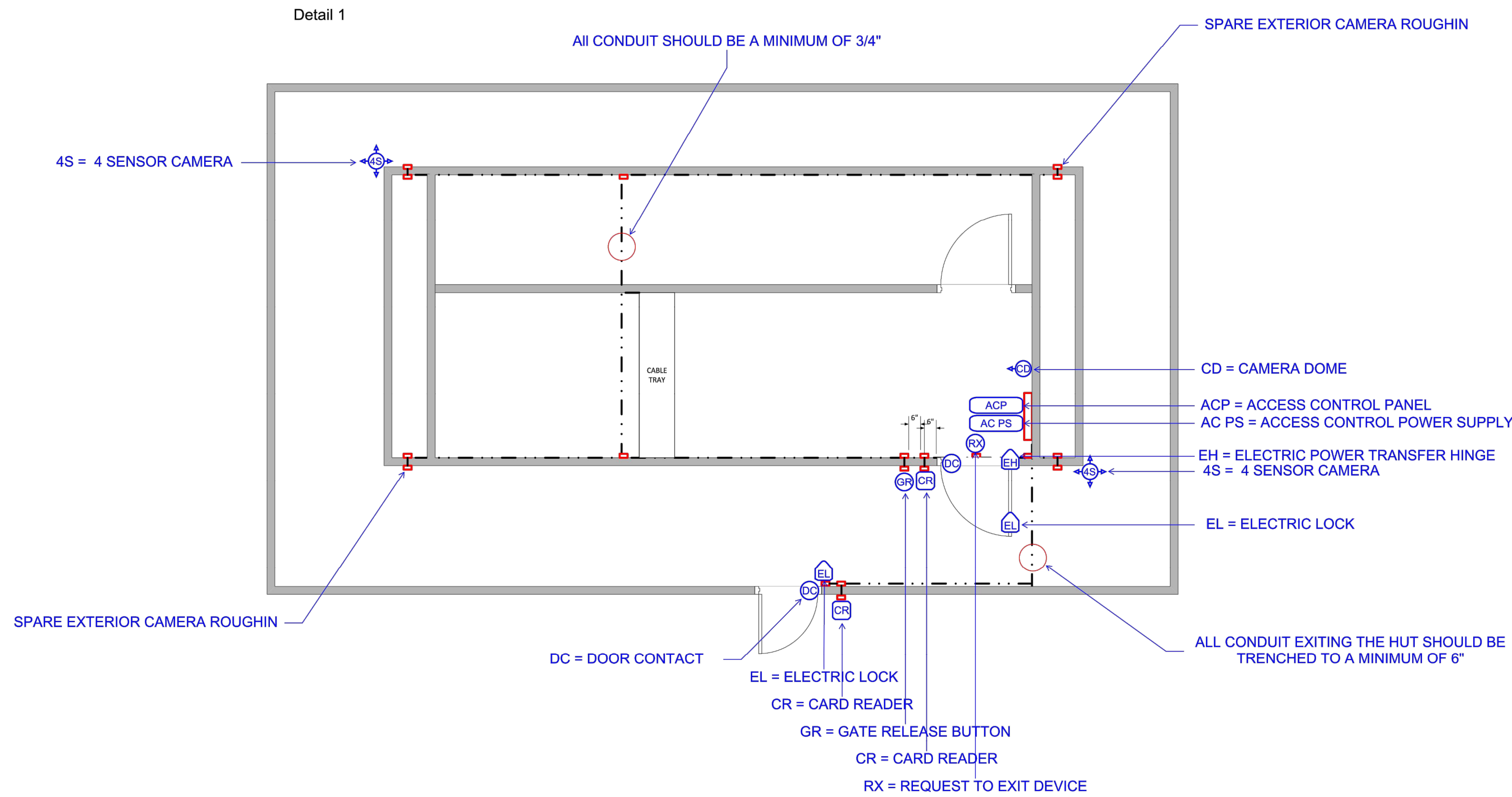
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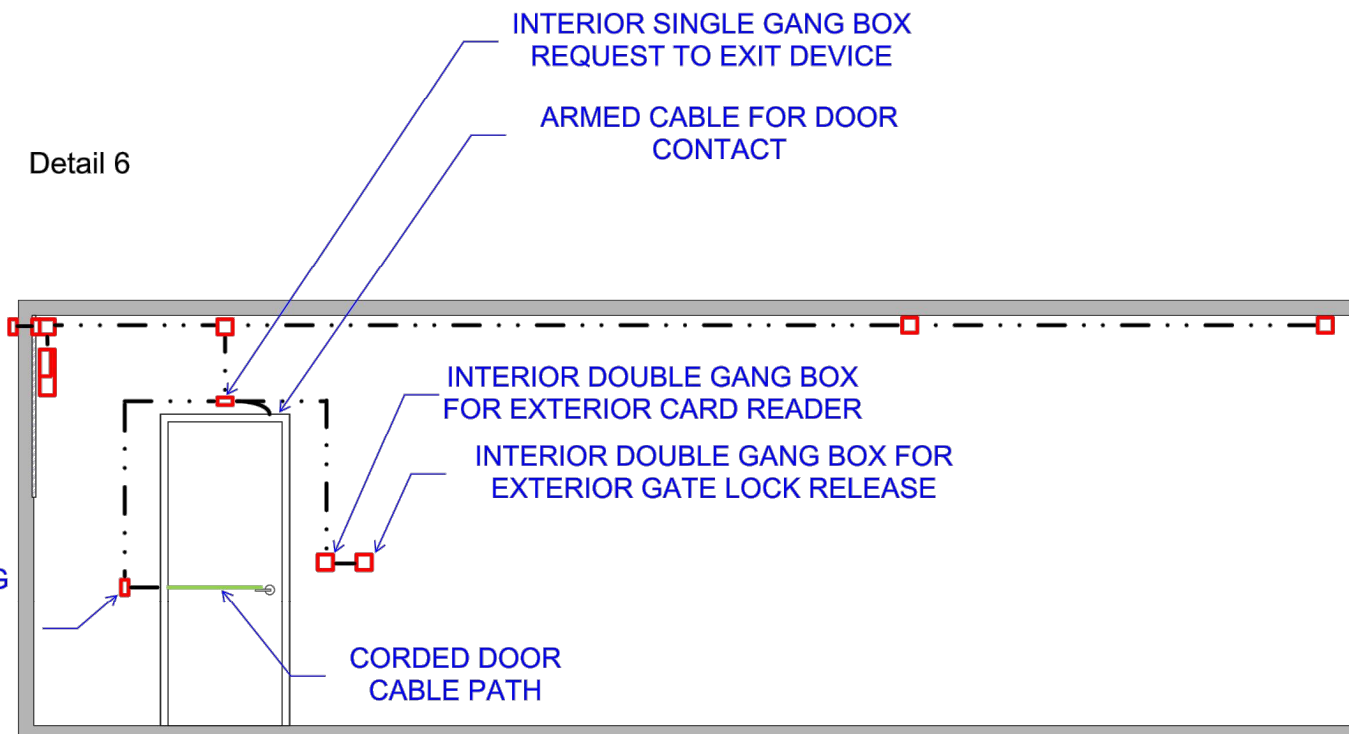
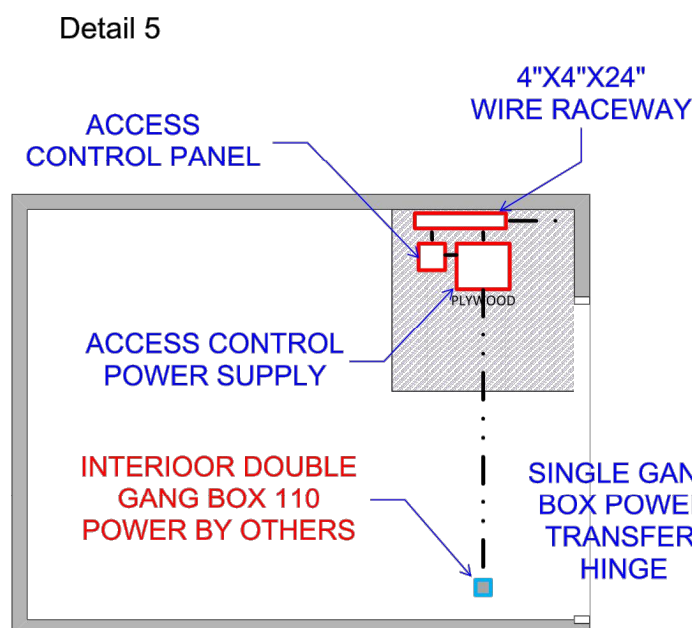
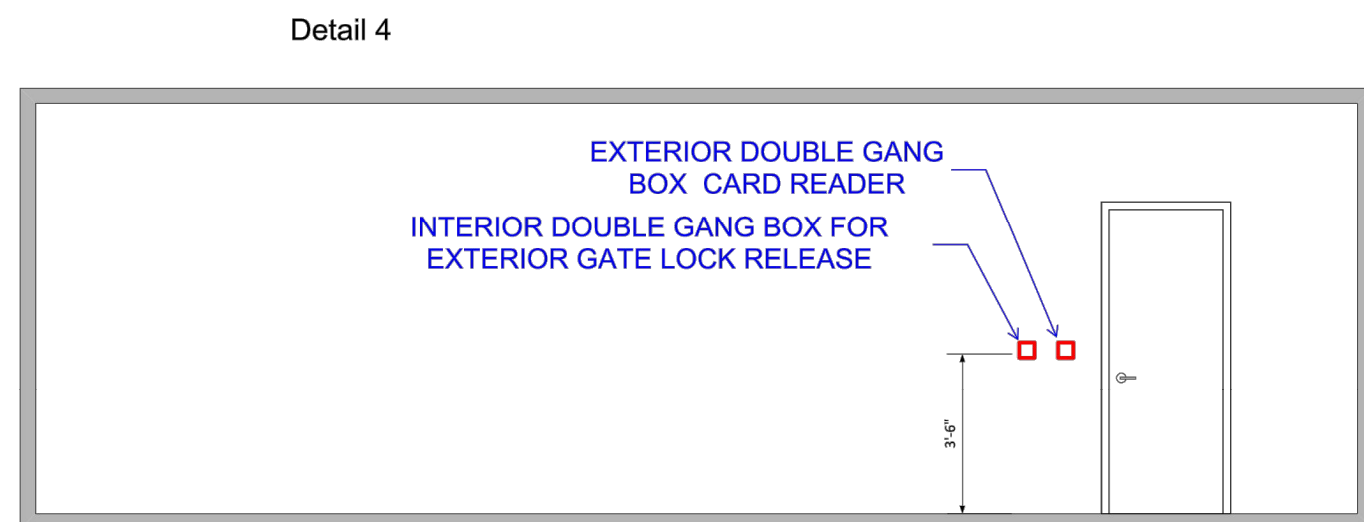
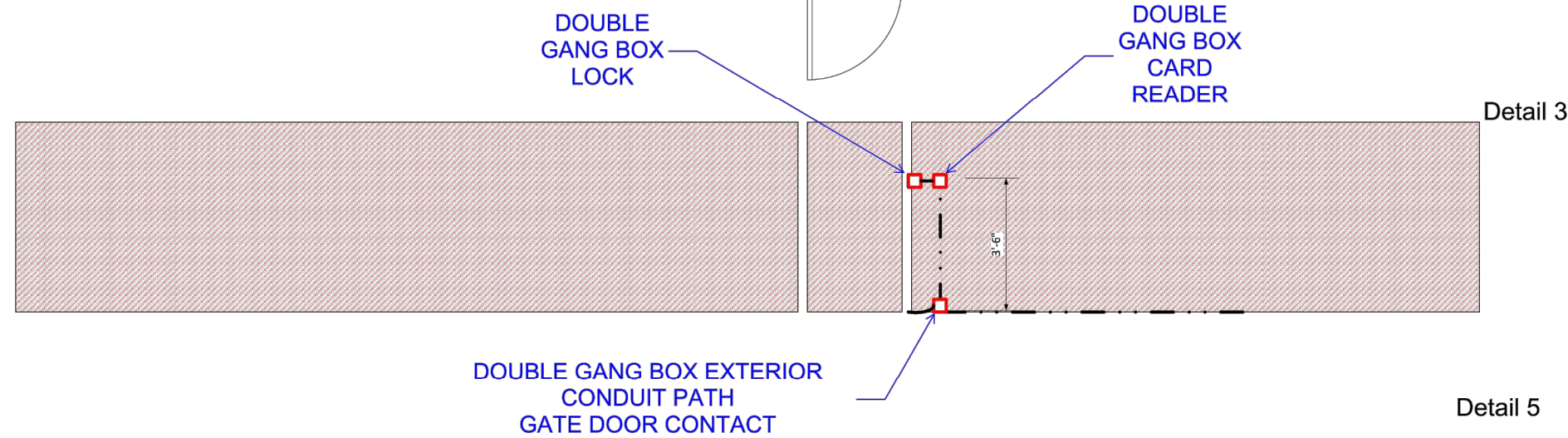
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GOOGLE FIBER HUT
SECURITY DESIGN VERSION 2



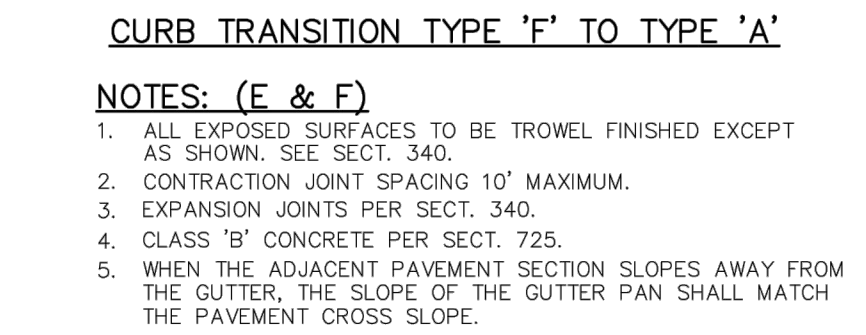
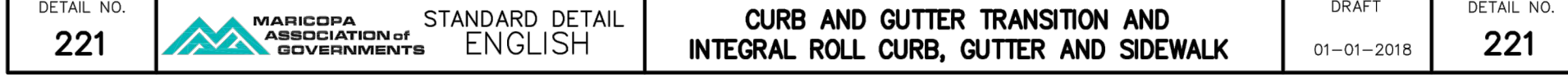
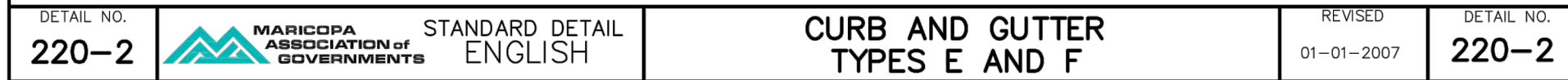
Construction Keynotes

1. Drill hole in wall and install interior to exterior double gang box within 2' of each 4 of the corners for security cameras, (see Detail 2).
2. Drill hole in wall and install 2 interior to exterior double gang boxes for Exterior Card Reader and Exterior Gate Lock Release, (see Detail 2, 4 & 6).
3. Install 2 double gang boxes at gate, (interior of compound), for Lock and Card Reader, connect using existing 2" conduit to connect to shelter, (see Detail 2 & 3).
4. Install single gang box, (exterior of compound gate) for Card Reader, (see Detail 2).
5. Install single gang box for Power Transfer Hinge, (see Detail 6).
6. Install single gang box for Request to Exit device, (see detail 6).
7. Install double gang box for Access Control Power Supply, (see Detail 5).
8. Connect all gang boxes, as per plan, with minimum 3/4" EMT conduit. Conduit for cameras to be run to nearest cable tray, final connection to be made by security vendor. Verify all dimensions and locations on site.



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**BOARD OF ADJUSTMENTS SUP
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