GOOGLE FIBER PHX HUT 115 SITE IMPROVEMENT PLANS

6739 E AVALON ST MESA, AZ 85205

PROJECT INFORMATION

HOURS

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

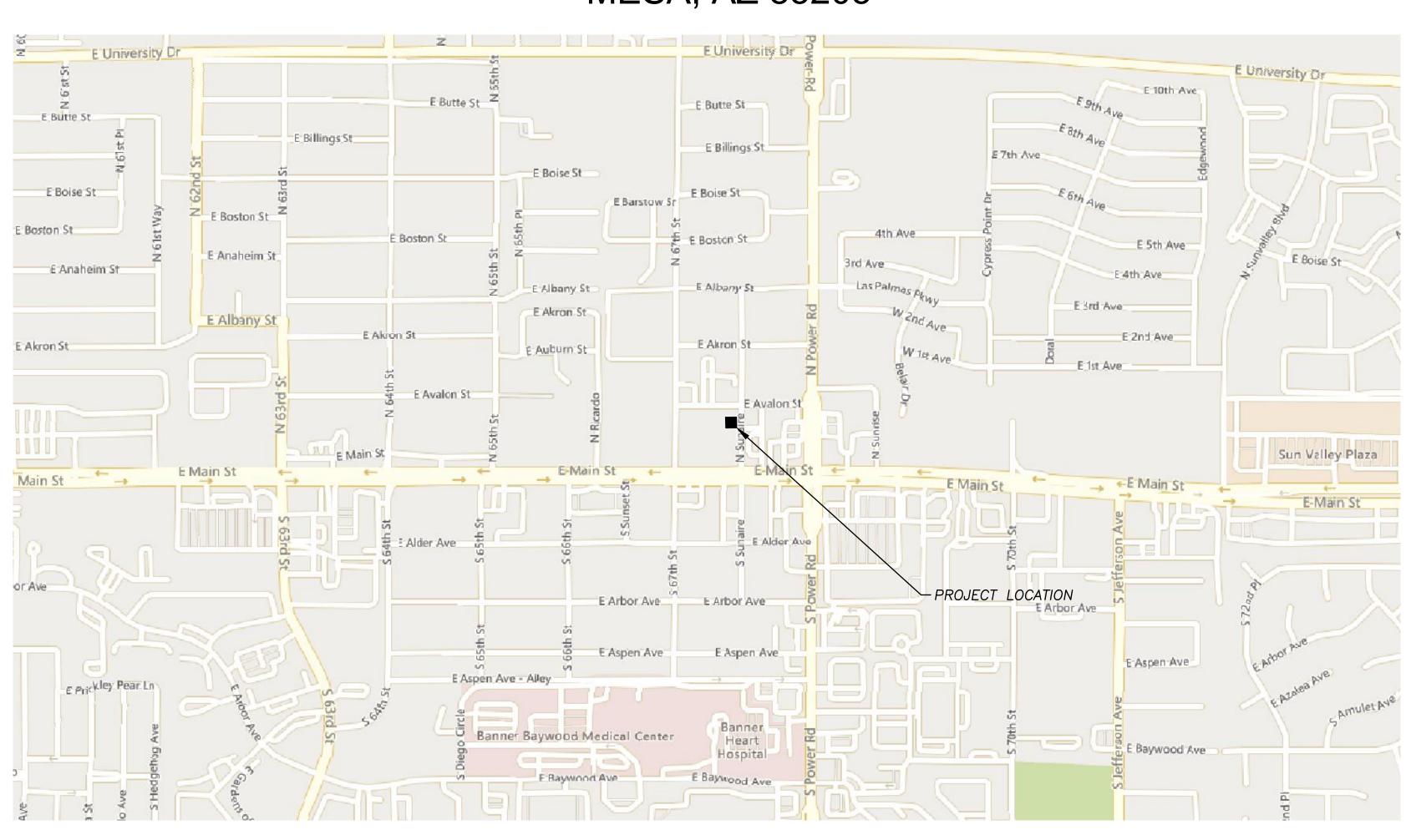
PROPERTY INFORMATION

OWNER: BUCKHORN ELKS LODGE ADDRESS: 6739 E AVALON ST MESA, AZ 85205

ZONING: LC — LIMITED COMMERCIAL EXISTING USE: VACANT LOT PROPOSED USE: FIBER UTILITY HUT

BUILDING AND SITE DATA

COMPOUND AREA: 1664 SF PROPOSED BUILDING: AREA: 360 SF HEIGHT: 11 FT



Sheet Lis	st Table
Sheet Number	Sheet Title
COV	COVER SHEET
GEN	GENERAL NOTES
SUR	SURVEY
C1.0	OVERALL SITE PLAN
C1.1	SITE PLAN
C2.0	GRADING PLAN
L1.0	LANDSCAPE PLAN
D1.0	DETAILS
D1.1	DETAILS 1.1
D1.2	DETAILS 1.2
D1.3	DETAILS 1.3
D1.4	DETAILS 1.4

PREPARED & SUBMITTED BY:

BHC Overland Park, Kansas

MATTHEW BRUNGARDT, P.E. P.E. No. 61020



APPROVED BY:

CITY OF MESA

2023 — 4:25pm Plotted By: ben.mullinnix T:\032030.72.01 GF PHX

Design: *RSV* Drawn: *TBW*Checked: *RSV*ssue Date: 06/28/2023
Project No.: 032030.72.01

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- 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 1/2" 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

Т	EXISTING TELECOM STRUCTURE		EASEMENT FOR FACILITIES
т	EXISTING TELEPHONE LINE	—— — SF ——	PROPOSED SILT FENCE
TV	EXISTING CABLE TV LINE		PROPOSED SECURITY SCREENING WALL
 ОНЕ <i>-</i>	EXISTING OVERHEAD ELECTRIC LINE		PROPOSED CONDUIT LINE
-	EXISTING UTILITY POLE		PROPOSED GROUNDING GRID
(EXISTING GUY ANCHOR	UGE	PROPOSED UNDERGROUND ELECTRIC LINE
-X X X	EXISTING WIRE FENCE		PROPOSED UTILITY POLE
	EXISTING GUARD RAIL		SLOPE ARROW
100	EXISTING GRADE CONTOURS	100	FINISH GRADE 5' CONTOURS
	NEIGHBORING LINE LOCATION	——————————————————————————————————————	FINISH GRADE 1' CONTOURS
— R—— —	PROPERTY LINE LOCATION		
—— R/W ——	HIGHWAY RIGHT-OF-WAY LOCATION	FFE XXX.XX TG	FINISHED FLOOR ELEVATION
	FIBER OPTIC CABLE (INSTALLED BY OTHERS)		TOP OF GRADE ELEVATION
	FIBER VAULT (INSTALLED BY OTHERS)	ESMT.	EASEMENT
	WATER VALVE	SQ. FT.	SQUARE FEET
		⟨xx⟩	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.

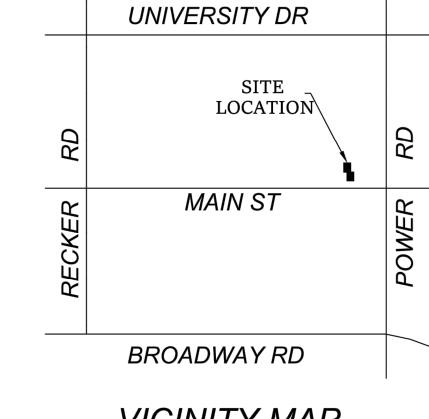
In addition, there are times when hydrants and valves must be closed temporarily for repair work or construction of the water system. The developer/contractor is responsible for ensuring that the water supply is always available. When the work is complete, developer/contractor shall make sure that the fire hydrants are active, and the valves are open."

GEN

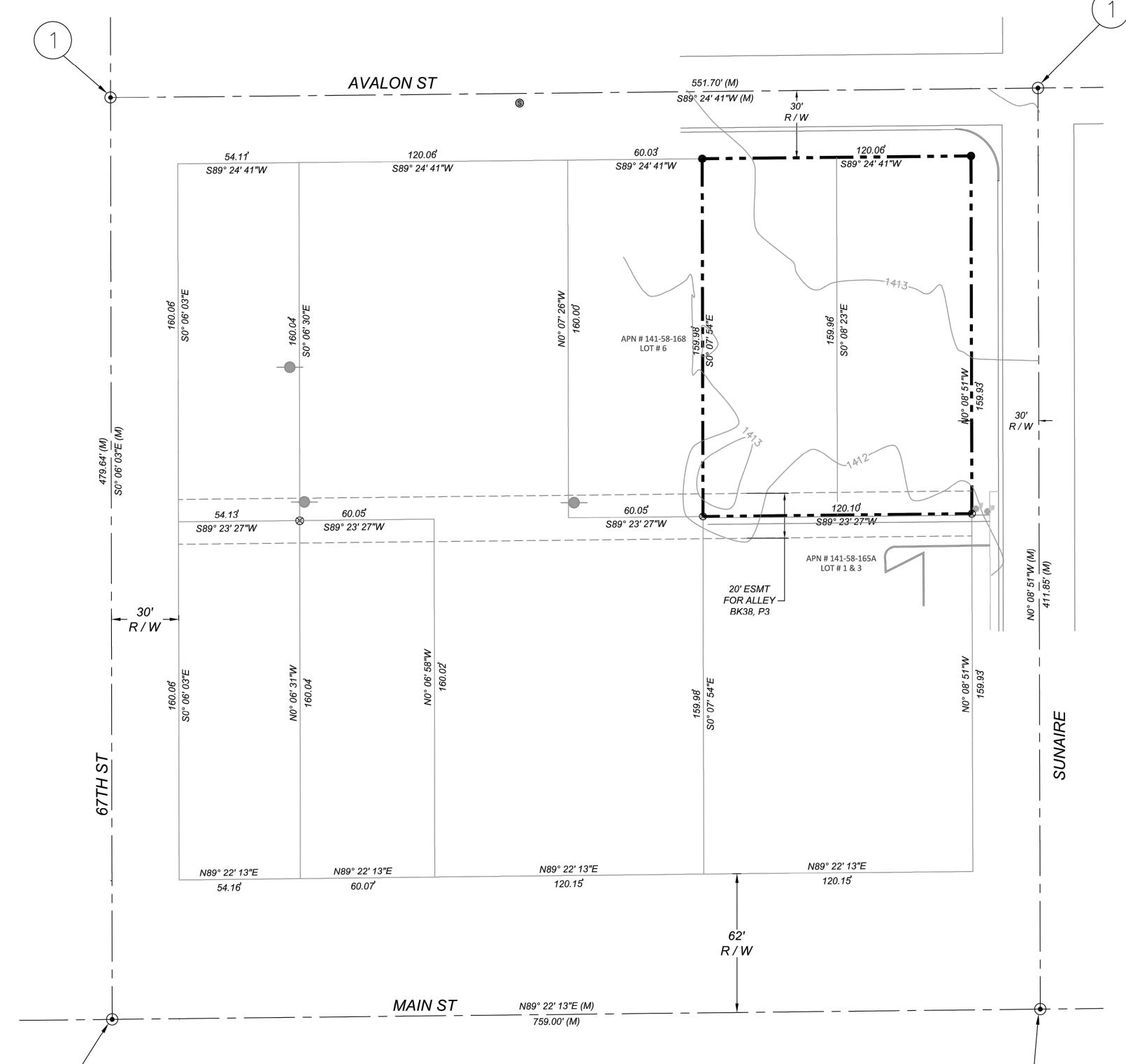
BOUNDARY / TOPOGRAPHIC SURVEY

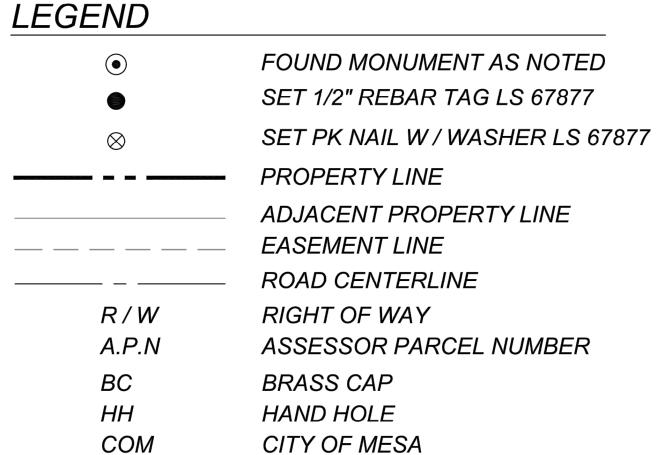
6731 & 6739 E AVALON ST MESA 85205

A PORTION OF HE NORTHEAST QUARTER OF SECTION 24. TOWNSHIP 1 NORTH, RANGE 6 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN. MARICOPA COUNTY, ARIZONA

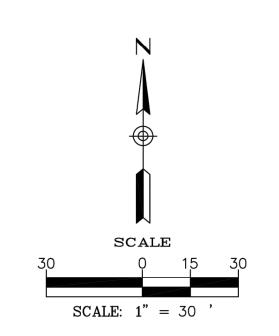


VICINITY MAP SCALE N.T.S.





PUBLIC UTILITY EASEMENT IRON PIPE **UTILITY POLE** WATER VALVE



REFERENCE DOCUMENTS

- PLAT PER BOOK 38, PG 3
- PLAT PER BOOK 1703, PG 3
- PLAT PER BOOK 1059, PG 30

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: 5/9/23 REED DALBIK, RLS NO. 67877

SURVEYOR

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

BENCHMARK

BRASS CAP AT THE TOP OF SIDEWALK AT THE SOUTHWEST CORNER OF POWER RD AND MAIN ST COM DATUM (NAVD88) = 1414.41

OWNER OF RECORD

BUCKHORN ELKS LODGE NO 2656 MAILING ADDRESS: 6718 E AVALON MESA AZ USA 85205

PROPERTY

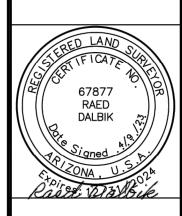
APN 141-58-166 & 164 **ZONING LC** AREA: 19,189 SF ADDRESS: 6731 & 6739 E AVALON ST MESA 85205

LEGAL DESCRIPTION

LOT 2 AND LOT 4, BLOCK 17, AMENDED PLAT OF DESERT WELLS, ACCORDING TO BOOK 38 OF MAPS, PAGE 3, RECORDS OF MARICOPA COUNTY, ARIZONA.

$\overline{\bigcirc}$	MONUMENTS TABLE
1	FND MARICOPA COUNTY BC FLUSH
2	FND BC IN HH
3	FND IP IN HH

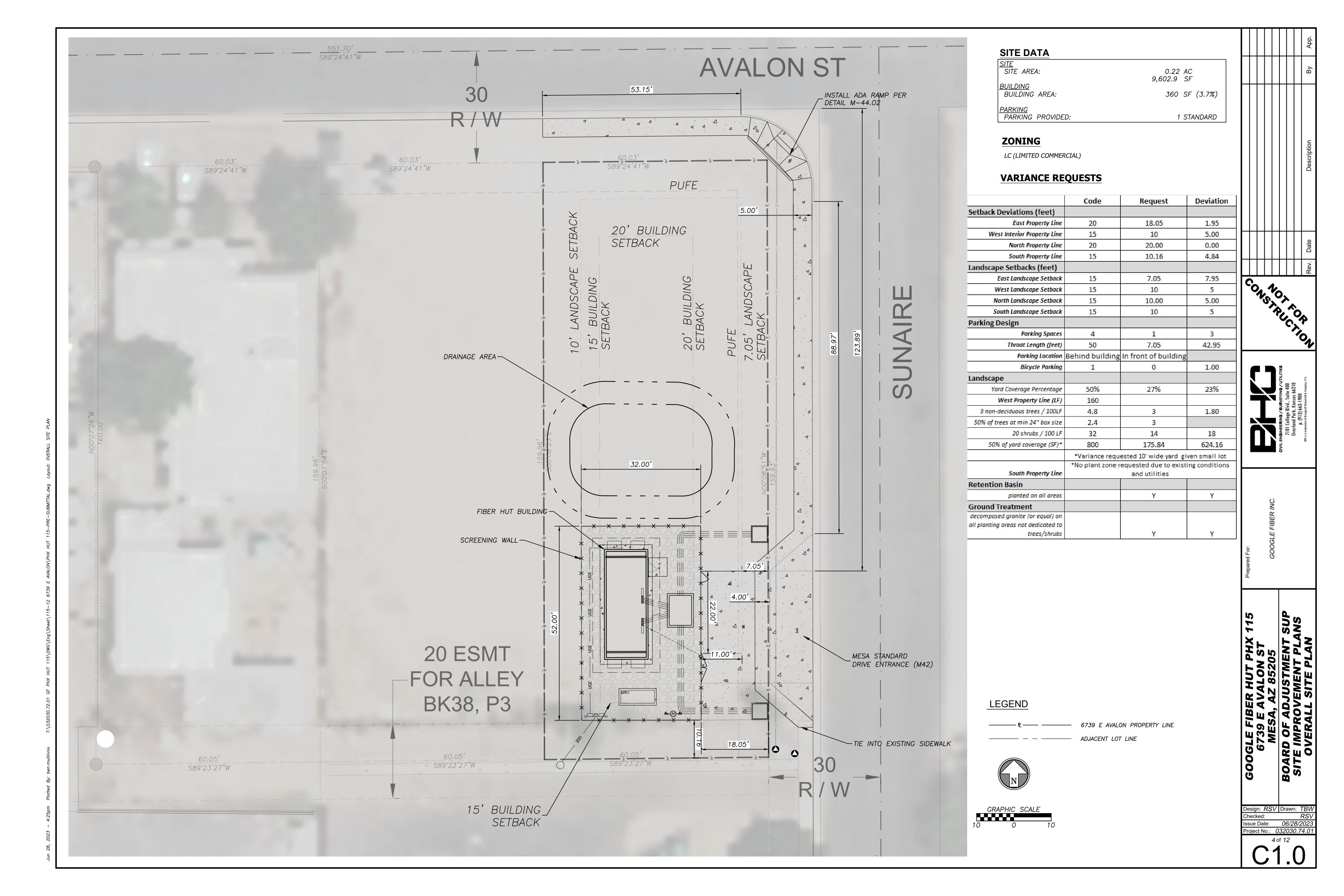
J.L.D. ENGINEE	2822 SOUTH BUCKSKIN	CHANDLER, AZ 8528	(602) 790-7958
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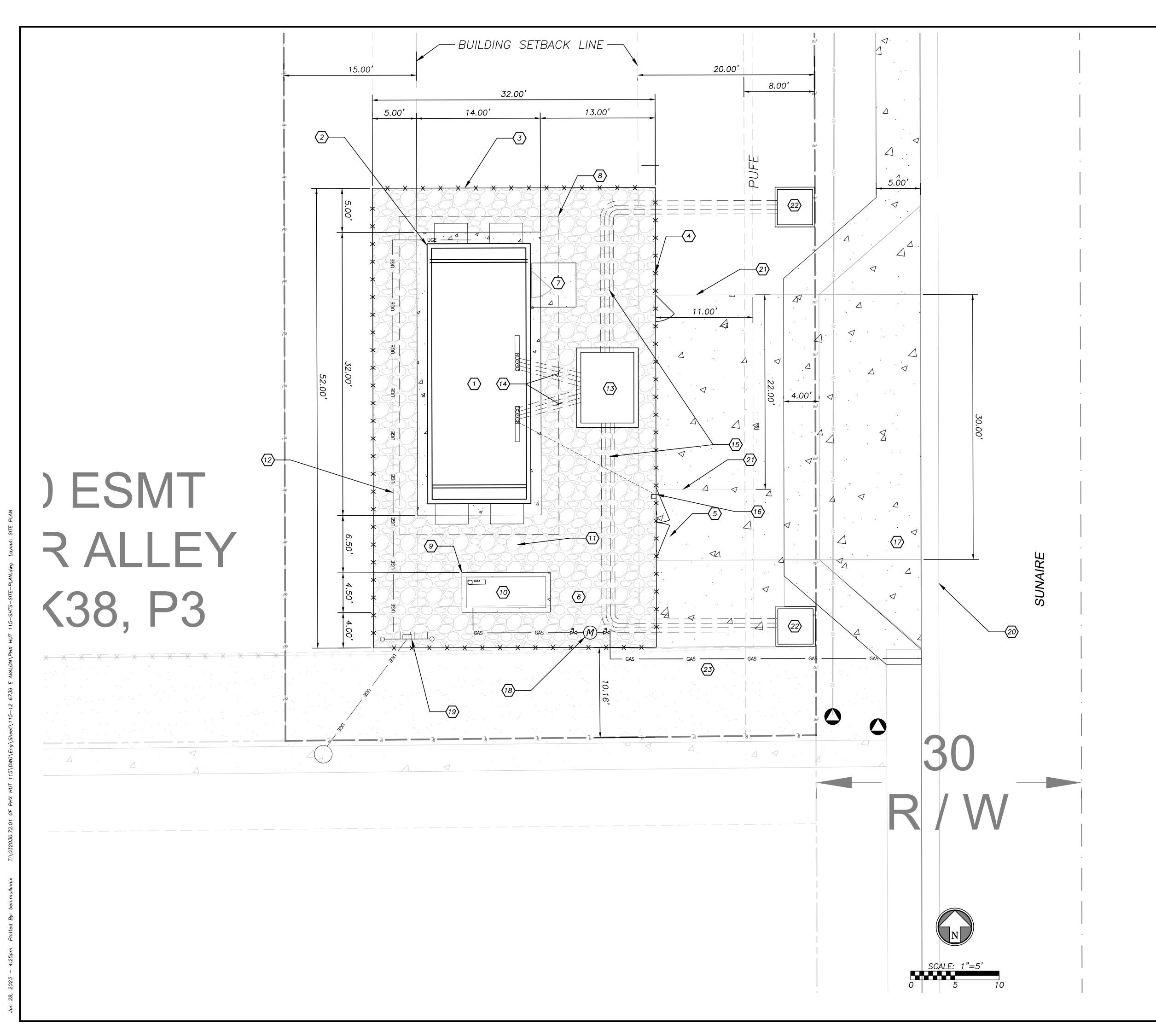


SURVEY BOUNDARY

SECTION: 24 TOWNSHIP: 1N RANGE:

JOB NO.: 23-32 OF 1





CONSTRUCTION KEYNOTE DESCRIPTIONS:

- 11'-10" X 29'-7" PRE-MANUFACTURED FIBER HUT TO BE SET BY CONTRACTOR. REFER TO BUILDING MANUFACTURER
- 2 CONSTRUCT 14' X 32' SLAB ON GRADE. REFER TO DETAIL 008 (D1.1).
- $\left\langle 3\right\rangle$ INSTALL 8' PRE-MANUFACTURED SECURITY WALL
- 4 INSTALL 3' WIDE MAN GATE AND GATE POSTS. REFER TO DETAIL 003 (D1.0)
- 5 INSTALL 8' WIDE DOUBLE SWING GATE AND GATE POSTS. REFER TO DETAIL 004 (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).
- 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).
- 50 SET BACKUP GENERATOR INSTALL PER MANUFACTURERS SPECIFICATIONS.
- 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.
- 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.
- INSTALL 6'x8'x4.75' OLDCASTLE 1119325-01 BELOW GRADE
 ON SITE UTILITY VAULT WITH LID.

 INSTALL (8) 4" PVC CONDUIT (TYP) BETWEEN ON SITE
 VALUE AND CONCRETE SLAB CONDUITS TO BE INSTALLED.
- 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)
- INSTALL 4 4" PVC CONDUIT FROM ON SITE VAULT TO EACH MEET—ME VAULT LOCATED IN ROW OF N SUNAIRE (8 TOTAL CONDUIT) INSTALL PER DETAIL 008 (D1.1).
- 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).
- CONSTRUCT 30' WIDE DRIVE WITH ATTACHED SIDEWALK.
 REFER TO MESA STANDARD DETAIL M42
- 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) EXISTING ROLL OVER CURB TO BE MAINTAINED FOR DRIVE ENTRANCE.
- STRIPE 11'X22' PARALLEL PARKING SPACE FOR USE BY MAINTENANCE WORKER
- $\langle 22
 angle$ INSTALL OLD CASTLE TRAFFIC RATED VAULT WITH LID
- $\langle 23 \rangle$ TIE INTO EXISTING ALLEY CONCRETE SLAB

— X X PROPOSED SECURITY WALL

— PROPOSED FIBER OPTIC CABLE

— GAS — PROPOSED GAS SERVICE LINE

— UGE — PROPOSED ELECTRIC SERVICE LINE

— PROPOSED GROUNDING

— № — PROPERTY LINE

F

PROPOSED GRAVEL SURFACE

PROPOSED CONCRETE SURFACE

EXISTING ALLEY CONCRETE SURFACE

Rev. Date Description By App

CONSTRUCTION



GOOGLE FIBER INC.

6739 E AVALON ST MESA, AZ 85205 RD OF ADJUSTMENT SUF E IMPROVEMENT PLANS

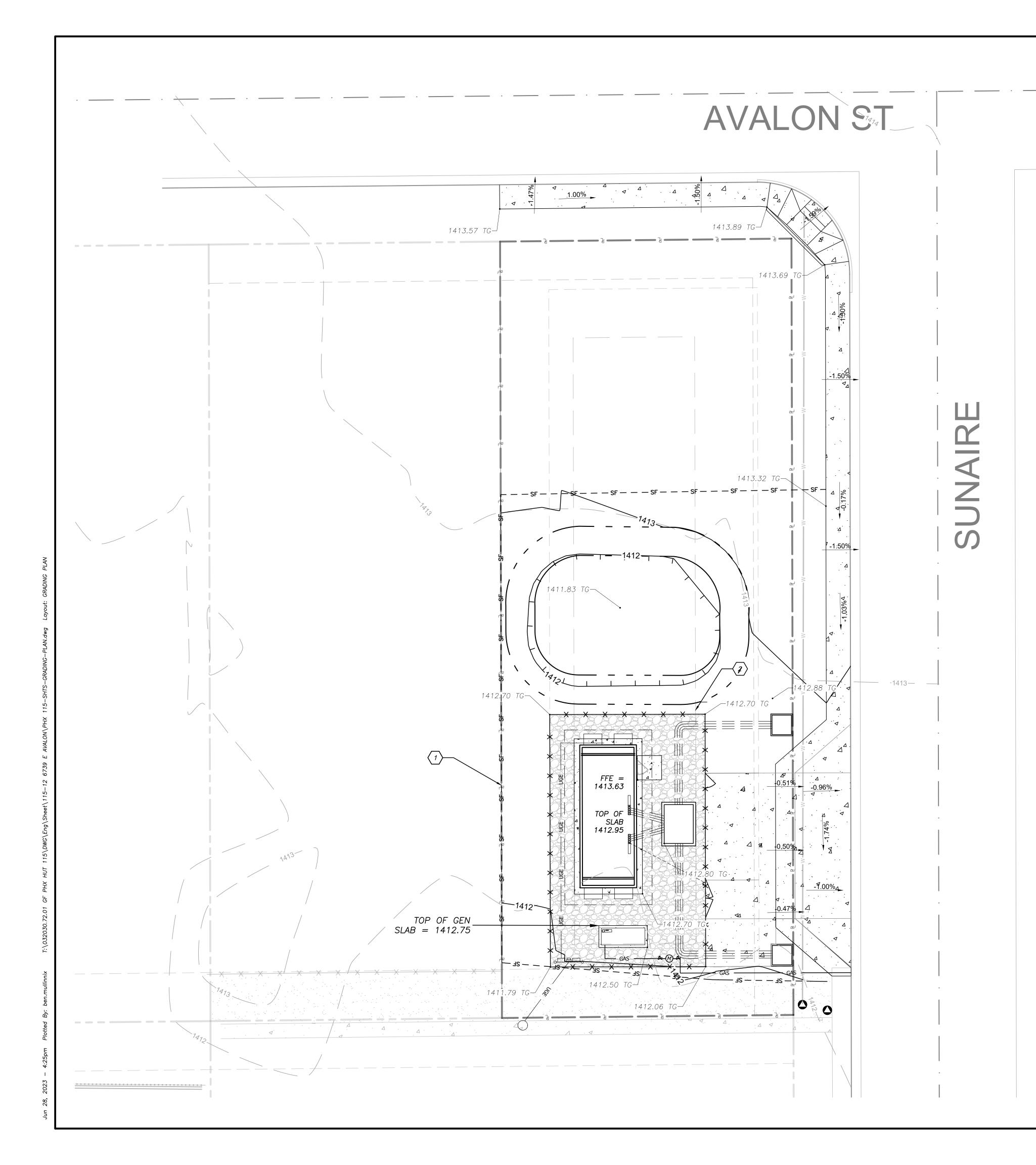
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 ssue Date:
 06/28/2023

 Project No.:
 032030.72.01

C1.1



RATIONAL METHOD RETENTION CALCS

SURFACE	Area	"C"	Volume	Volume
	(acres)	Value	acre feet	cubic feet
Pavement & Rooftops	0.011	0.95	0.0020	85.86
Desert Landscaping	0.169	0.5	0.0155	675.94
Gravel Compound Landscaping	0.027	0.5	0.0025	107.34
Drive Entrance	0.013	0.95	0.0023	98.40
	0.220			967.55

VOLUME = C*(P/12)*AREA WHERE P = 2.2 INCHES OF RAINFALL.

GRADING AND EROSION CONTROL KEYNOTES

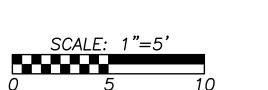
- 1) INSTALL APPROX. 230 LF OF SILT FENCE ALONG EXISTING BACK OF CURB. REFER TO SILT FENCE DETAIL 004 ON SHEET D1.0.
- 2 GRADE AT A MAX OF 3:1 SLOPE TO MATCH EXISTING.
- 2 GRADE AT A MAX OF 6:1 SLOPE TO CREATE DRAINAGE AREA

LEGEND

LEGEND	
XXX.XX TG	TOP OF GRADE
XXX.XX TC	TOP OF CURB
XXX.XX ME	MATCH EXISTING
——————————————————————————————————————	SILT FENCE
100	FINISH GRADE 5' CONTOURS
101	FINISH GRADE 1' CONTOURS
	EXISTING GRADE 5' CONTOURS
	EXISTING GRADE 1' CONTOURS
─	SLOPE ARROW
	PROPOSED GRAVEL SURFACE

PROPOSED CONCRETE SURFACE





BOARD O
SITE IMI

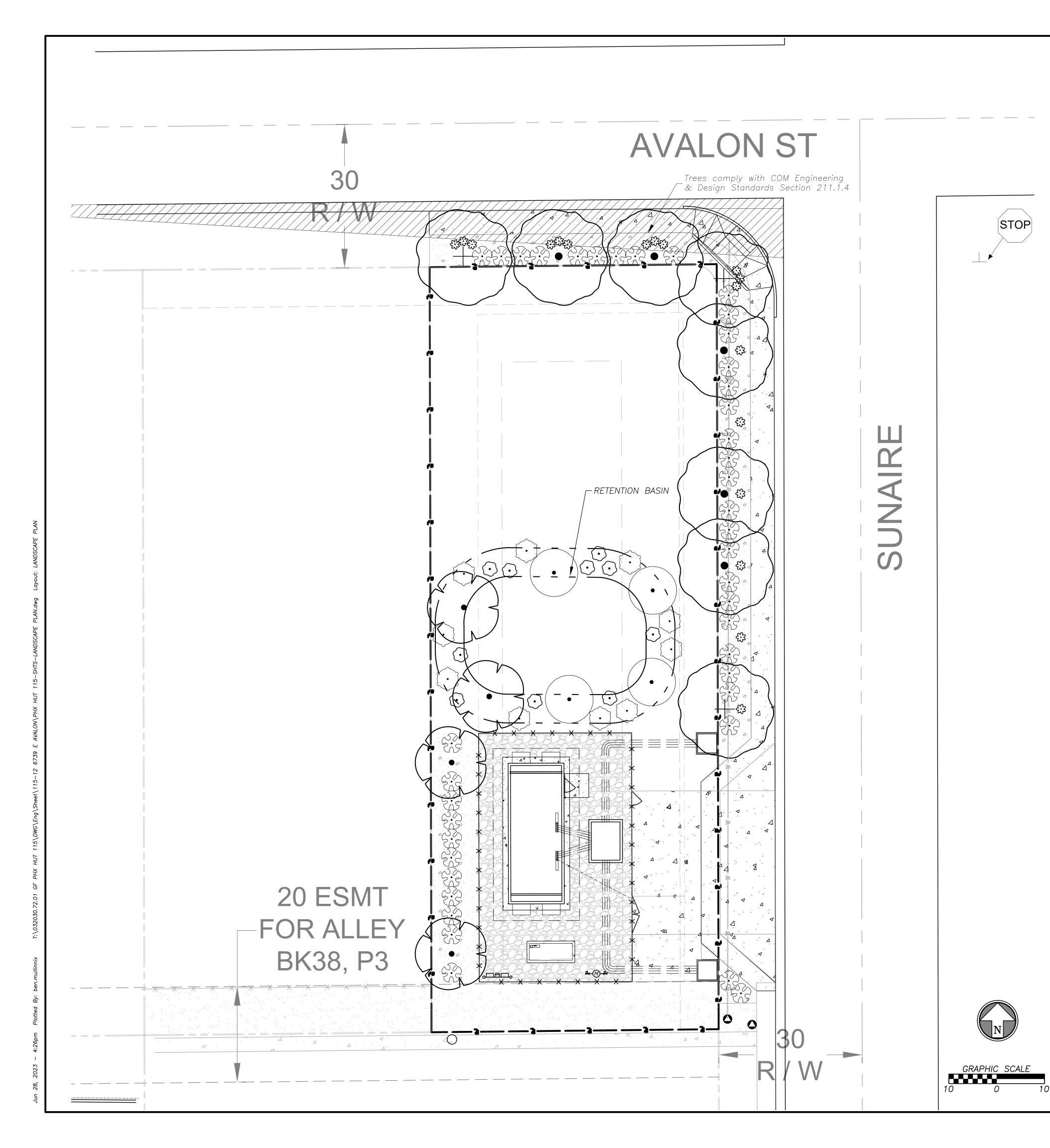
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C2.0



PLANT SCHEDULE

	EVERGREEN TREES	<u>QTY</u>	BOTANICAL / COMMON NAME	CONT
	$\left(\cdot\right)$	5	Acacia pendula / Weeping Myall	24"box
ς	+	3	Acacia pendula / Weeping Myall	36"box
	(:)	4	Cordia boissieri / Anacahuita	24"box
	SHRUBS	<u>QTY</u>	BOTANICAL / COMMON NAME	SPEC
	•	4	Acacia redolens `Low Boy` / Low Boy Bank Catclaw	5 gal
	£3	18	Chrysactinia mexicana / Damianita	1 gal
	5.5	41	Dalea frutescens / Black Dalea	5 gal
	\odot	10	Helianthus maximiliani 'Lemon Yellow' / Lemon Yellow Maximilian Sunflower	1 gal
	\odot	10	Leucophyllum langmaniae 'Lynn's Legacy' / Lynn's Legacy Langman's Sage	5 gal

MULCH SCHEDULE



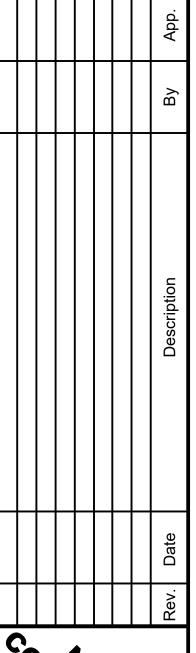
<u>DECOMPOSED GRANITE</u> 1,690 s Fine to 1/4" particle size. 3" depth. Tan color or equivalent.

SITE DATA

	Quantity	Required	Provided
Street Landscape			
Avalon Street (LF)	72		
1 tree / 25LF		2.88	3
25% of trees at min 36" box size		0.72	1
50% of trees at min 24" box size		1.44	2
6 shrubs / 25LF		17.28	18
50% of shrubs min 5 gal size		8.64	9
Sunaire (LF)	121.39		
1 tree / 25LF		4.86	5
25% of trees at min 36" box size		1.21	2
50% of trees at min 24" box size		2.43	5
6 shrubs / 25LF		29.13	30
50% of shrubs min 5 gal size		14.57	21
Yard Landscape			
Yard width		15' wide	10' wide
West Property Line (LF)	160		52.5
3 non-deciduous trees / 100LF		4.8	3
50% of trees at min 24" box size		2.4	3
20 shrubs / 100 LF		32	14
50% of yard planted (SF)*		1200	175.84
			26.7% planted
	given small lot		
	*Unable to plant due to existing		
South Property Line	conditions and utilities		
Retention Basin			
planted on all areas		Υ	Y
Ground Treatment			
decomposed granite (or equal) on all planting			
areas not dedicated to trees/shrubs		Υ	Y

GENERAL LANDSCAPE NOTES

- The Contractor shall verify and coordinate all final grades with the Landscape Architect and or design team prior to completion.
- 2. Location of all utilities are approximate, the Contractor shall field verify locations prior to commencement of construction operations.
- 3. Refer to Civil Drawings for all grading and berming, erosion control, storm drainage, utilities and site layout.
- 4. Plant quantities are for information only, drawing shall prevail if conflict occurs. Contractor is responsible for calculating own quantities and bid accordingly.
- 5. Tree locations in areas adjacent to drives, walks, walls and light fixtures may be field adjusted as approved by Landscape Architect.
- 6. The Contractor shall report subsurface soil or drainage problems to the Landscape Architect.
- The plan is subject to changes based on plant size and material availability. All changes or substitutions must be approved by the City of Mesa, Arizona and the Landscape Architect.
- 8. Landscape Contractor shall be responsible for watering all plant material until the time that a permanent water source is ready.
- 9. The Contractor shall show proof of procurement, sources, quantities, and varieties for all shrubs, perennials, ornamental grasses, and annuals within 21 days following the award of the contract.
- 10. Contractor shall provide full maintenance for newly landscaped areas for a period of 30 days after the date of final acceptance. At the end of the maintenance period, a healthy, well-rooted, even-colored, viable turf and landscaped area must be established. The landscaped areas shall be free of weeds, open joints, bare areas, and surface irregularities.



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GOOGLE FIBER INC.

MESA, AZ 85205 D OF ADJUSTMENT SUP

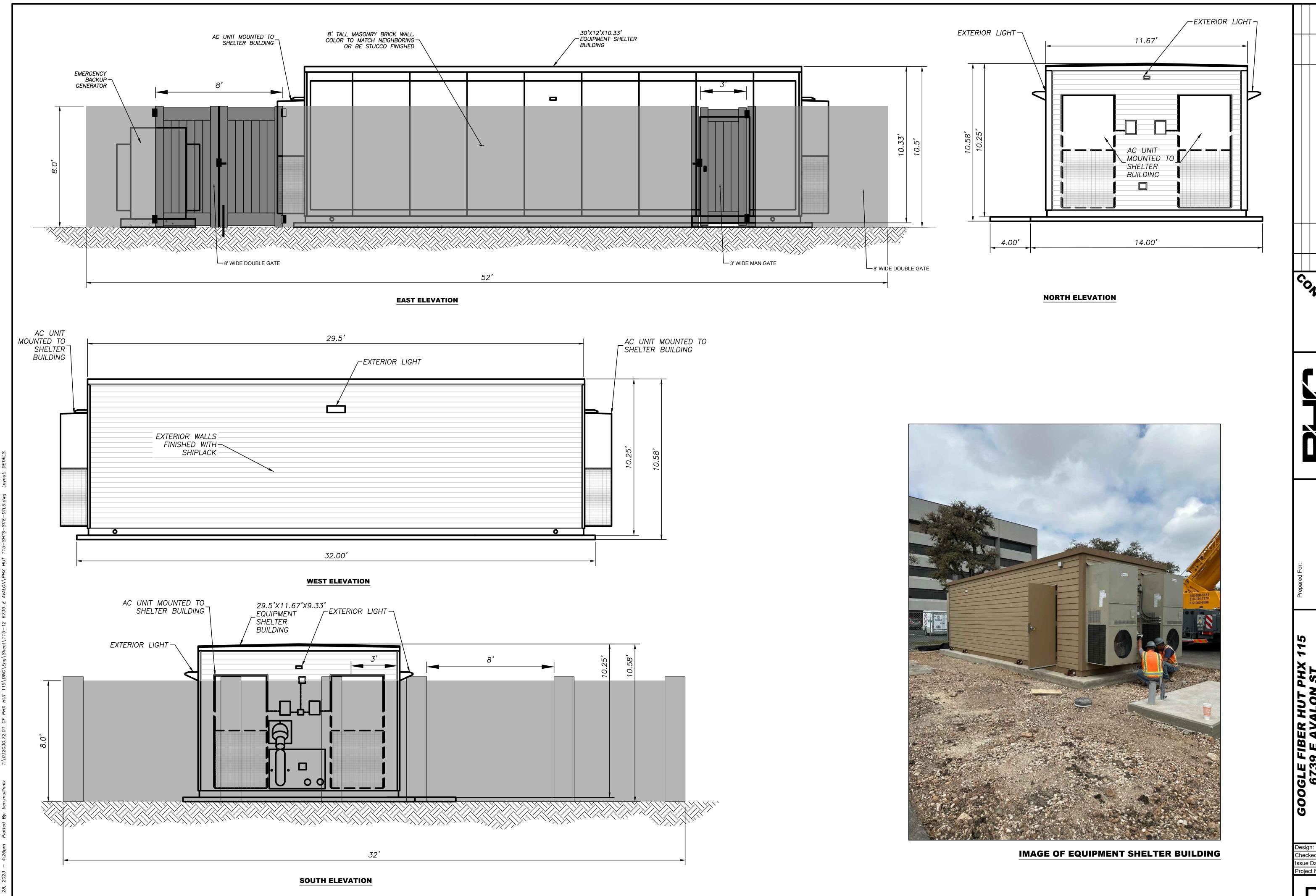
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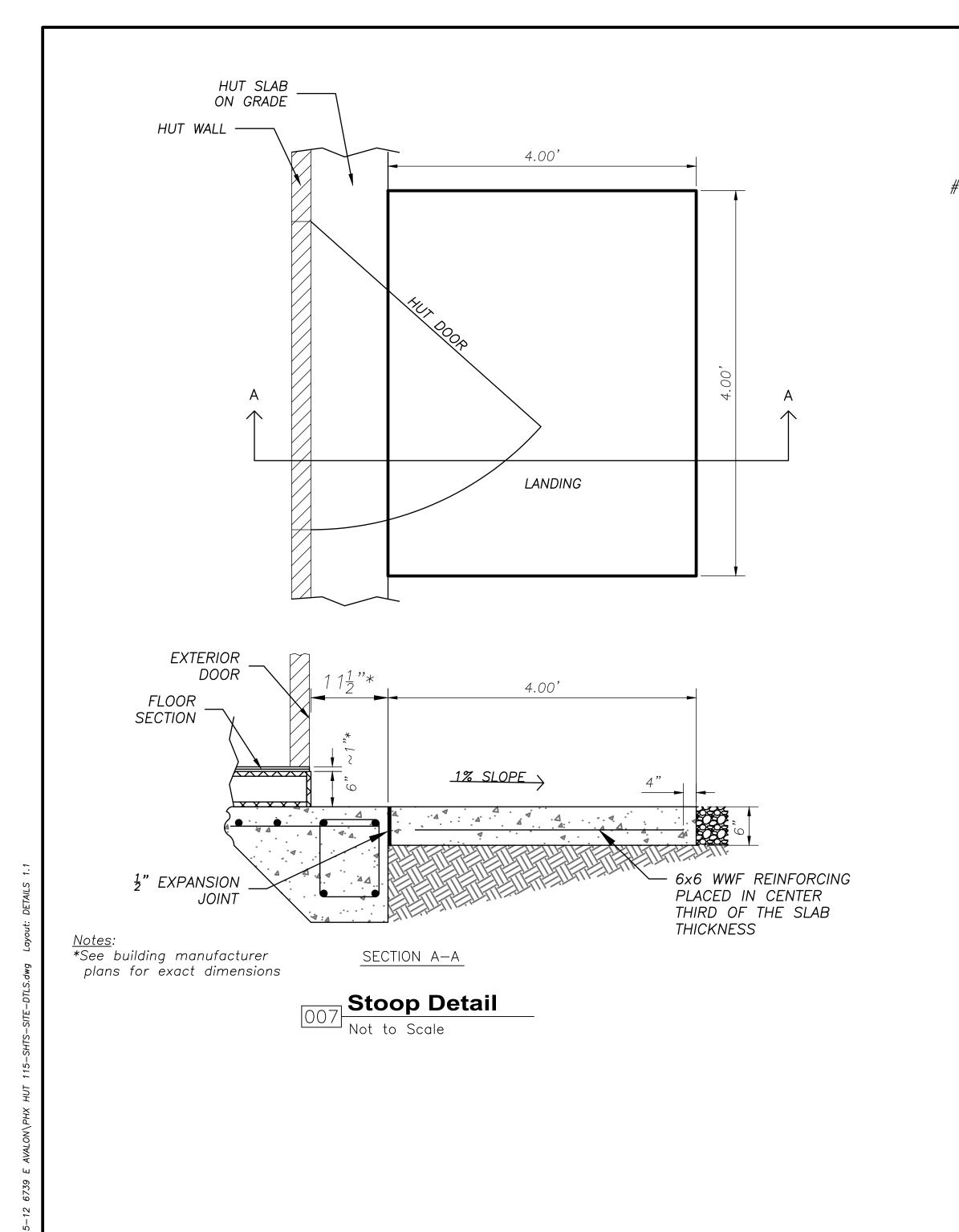
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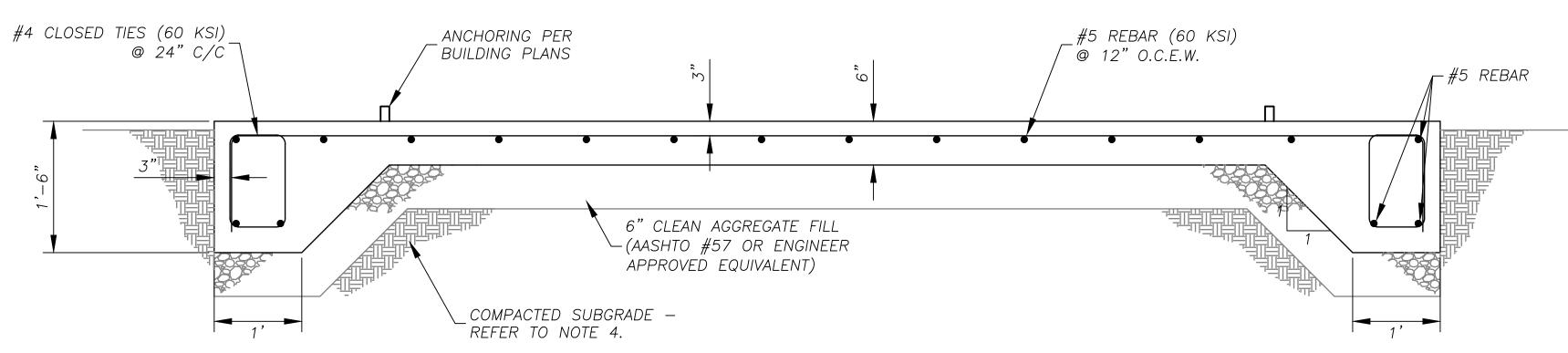
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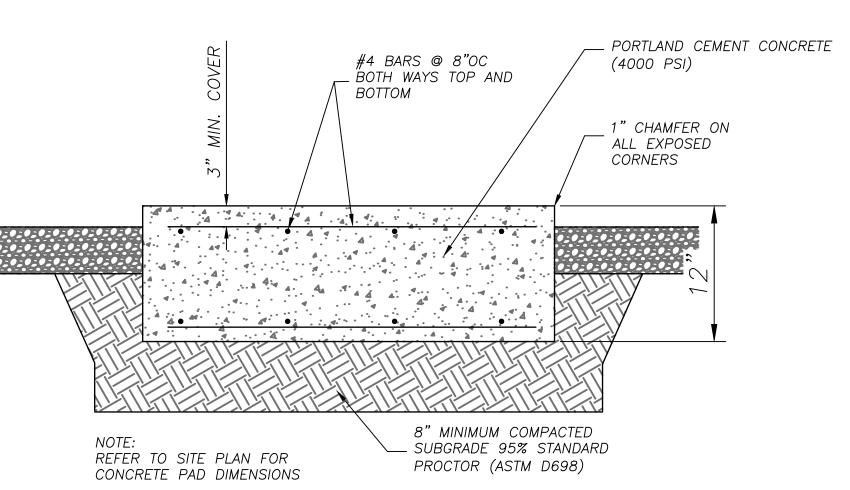


Foundation Detail

Not to Scale

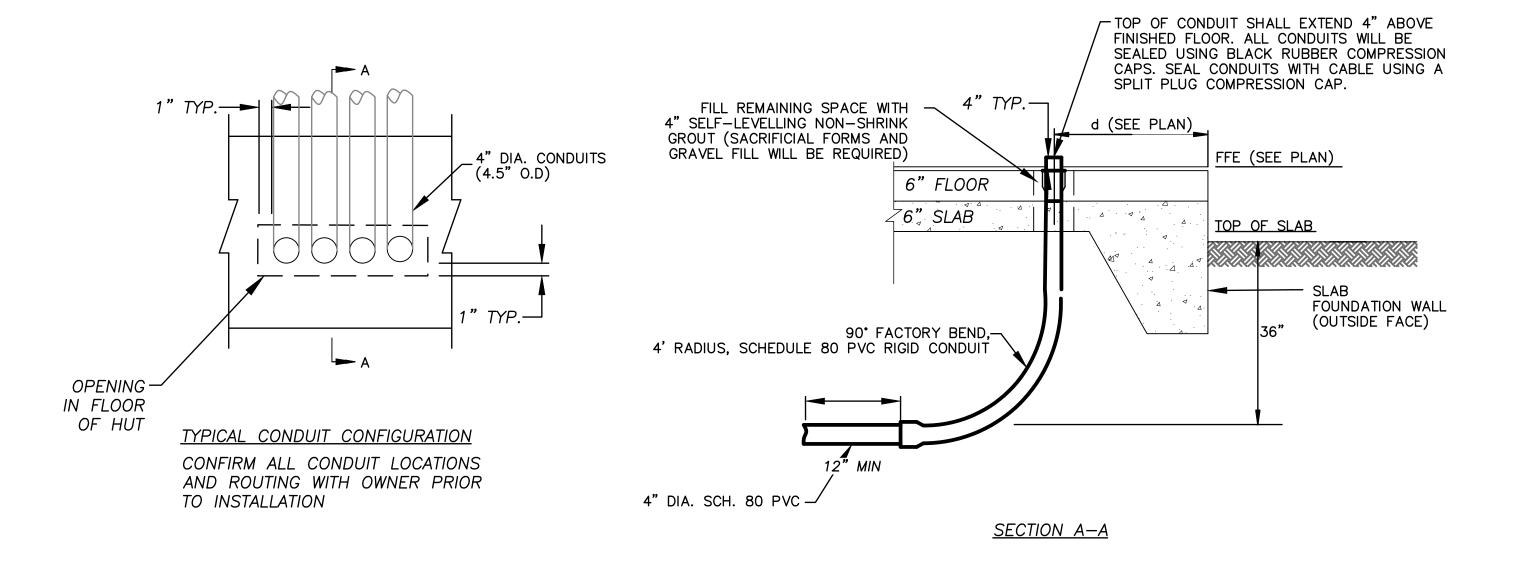
NOTES:

- 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.



Generator Pad Detail

Not to Scale



Typical Conduit Exit Detail

Not to Scale

NS, ALCOR



GOOGLE FIBER INC.

39 E AVALON ST NESA, AZ 85205 OF ADJUSTMENT SUP NPROVEMENT PLANS

 Design:
 RSV
 Drawn:
 TBW

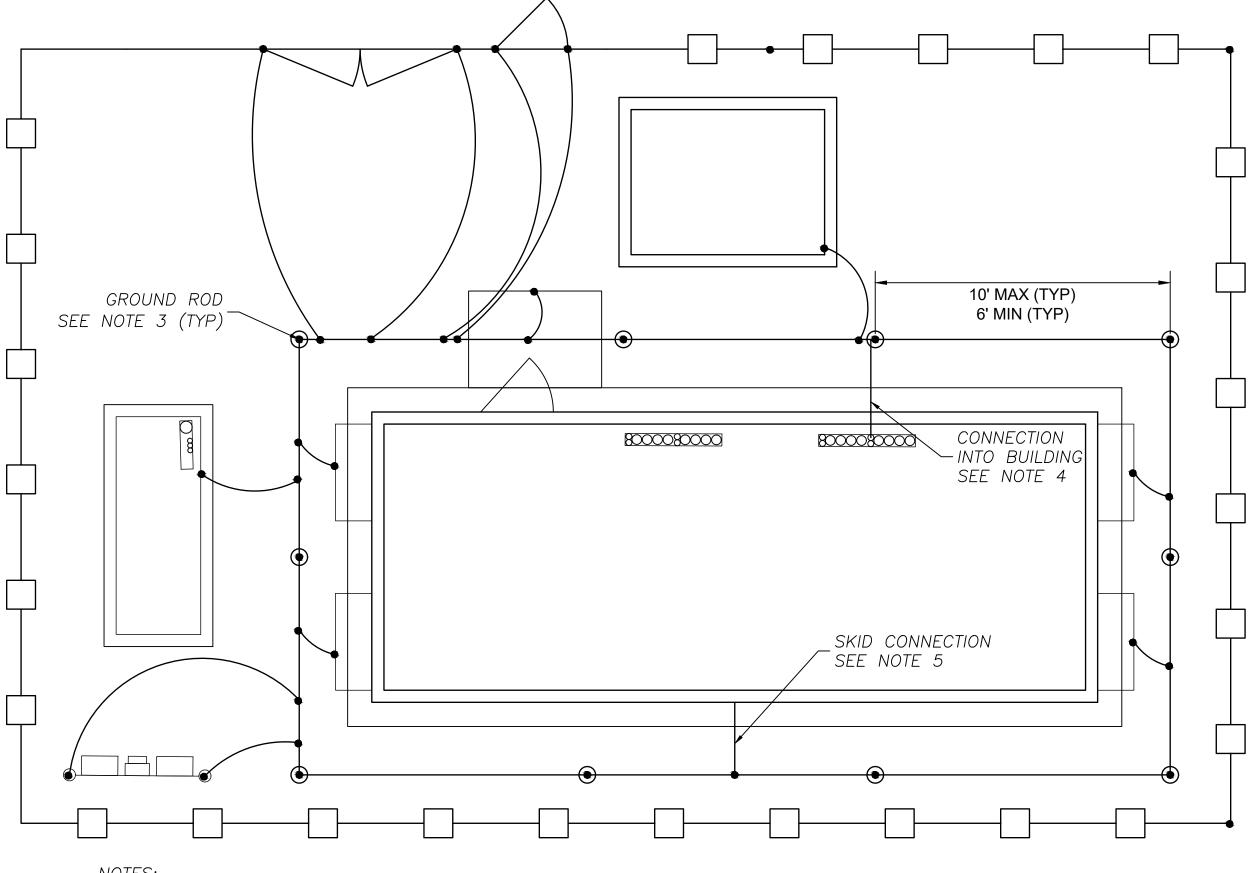
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 Issue Date:
 06/28/2023

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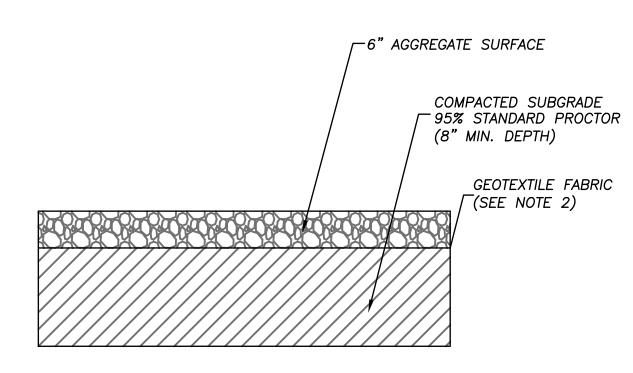
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- 1. ALL WORK SHALL CONFORM TO R56 GROUNDING STANDARDS AND GUIDELINES FOR COMMUNICATIONS SITES
- 2. #2 AWG TINNED SOFT DRAWN COPPER COUNTER POISE 30" MINIMUM BELOW GRADE, MIN 1' AROUND HUT PAD EXTERIOR. 3. %"X10' GROUND ROD WHERE INDICATED. CADWELD GROUND CONDUCTOR TO ROD
- 4. #4/0 GROUND WIRE UP THROUGH SLAB AND BUILDING 1" CONDUIT FOR CONNECTION TO MGB.ROUTE. REFER TO "BUILDING MANUFACTURERS PLANS.
- 5. #4/0 GROUND WIRE FOR CONNECTION TO HUT SKID.

Service Grounding Diagram Not to Scale

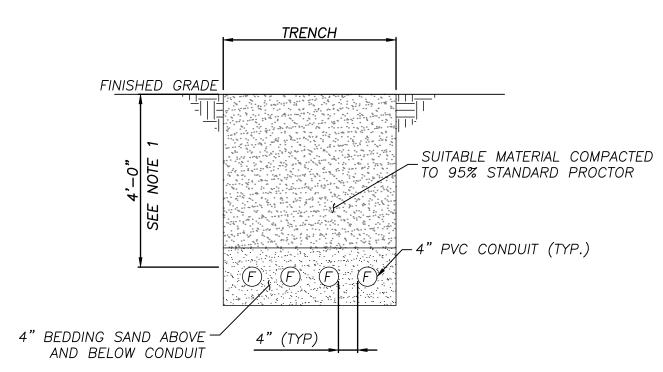


<u>NOTES:</u>
1. AGGREGATE BASE SECTION IS FOR AREA WITHIN THE SITE FENCE. SEE SITE PLAN C1.0 FOR DETAILS.

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

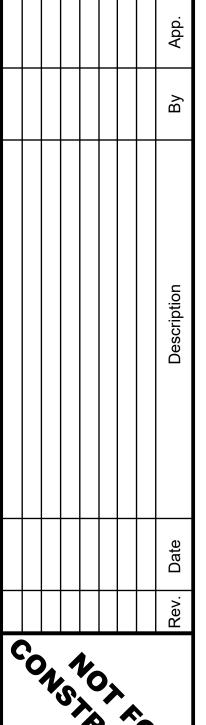
3. AGGREGATE SHALL BE AASHTO #57 OR APPROVED EQUAL.

Aggregate Surface Section Not to Scale



- 1. CONDUIT DEPTH MAY BE REDUCED TO A MIN 24" COVER TO AVOID
- EXISTING 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 TAMPER, 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 COMPACTION EQUIPMENT.
- 5. RESTORE DISTURBED AREAS TO THEIR ORIGINAL OR BETTER CONDITION. 6. ALL DISTURBED EARTH SHALL BE SEEDED OR MULCHED.









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GOOGLE FIBER HUT SECURITY DESIGN VERSION 2 Detail 1 SPARE EXTERIOR CAMERA ROUGHIN All CONDUIT SHOULD BE A MINIMUM OF 3/4" 4S = 4 SENSOR CAMERA CD = CAMERA DOME ACP = ACCESS CONTROL PANEL 4S = 4 SENSOR CAMERA EL = ELECTRIC LOCK SPARE EXTERIOR CAMERA ROUGHIN ALL CONDUIT EXITING THE HUT SHOULD BE DC = DOOR CONTACT TRENCHED TO A MINIMUM OF 6" EL = ELECTRIC LOCK CR = CARD READER GR = GATE RELEASE BUTTON CR = CARD READER RX = REQUEST TO EXIT DEVICE Detail 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, INTERIOR DOUBLE GANG BOX (see Detail 2). TO EXTERIOR DOUBLE GANG BOX FOR CAMERA 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. INTERIOR CONDUIT **EXTERIOR** CONDUIT EXTERIOR DOUBLE GANG BOX FOR CAMERA DOUBLE GANG BOX DOUBLE GANG BOX-CARD LOCK _Detail 3 INTERIOR SINGLE GANG BOX REQUEST TO EXIT DEVICE DOUBLE GANG BOX EXTERIOR ARMED CABLE FOR DOOR CONDUIT PATH Detail 5 CONTACT GATE DOOR CONTACT Detail 6 4"X4"X24" **WIRE RACEWAY** ACCESS Detail 4 CONTROL PANEL EXTERIOR DOUBLE GANG INTERIOR DOUBLE GANG BOX BOX CARD READER FOR EXTERIOR CARD READER INTERIOR DOUBLE GANG BOX FOR **ACCESS CONTROL** INTERIOR DOUBLE GANG BOX FOR EXTERIOR GATE LOCK RELEASE POWER SUPPLY EXTERIOR GATE LOCK RELEASE INTERIOOR DOUBLE SINGLE GANG **GANG BOX 110 BOX POWER** POWER BY OTHERS **TRANSFER** CORDED DOOR HINGE CABLE PATH

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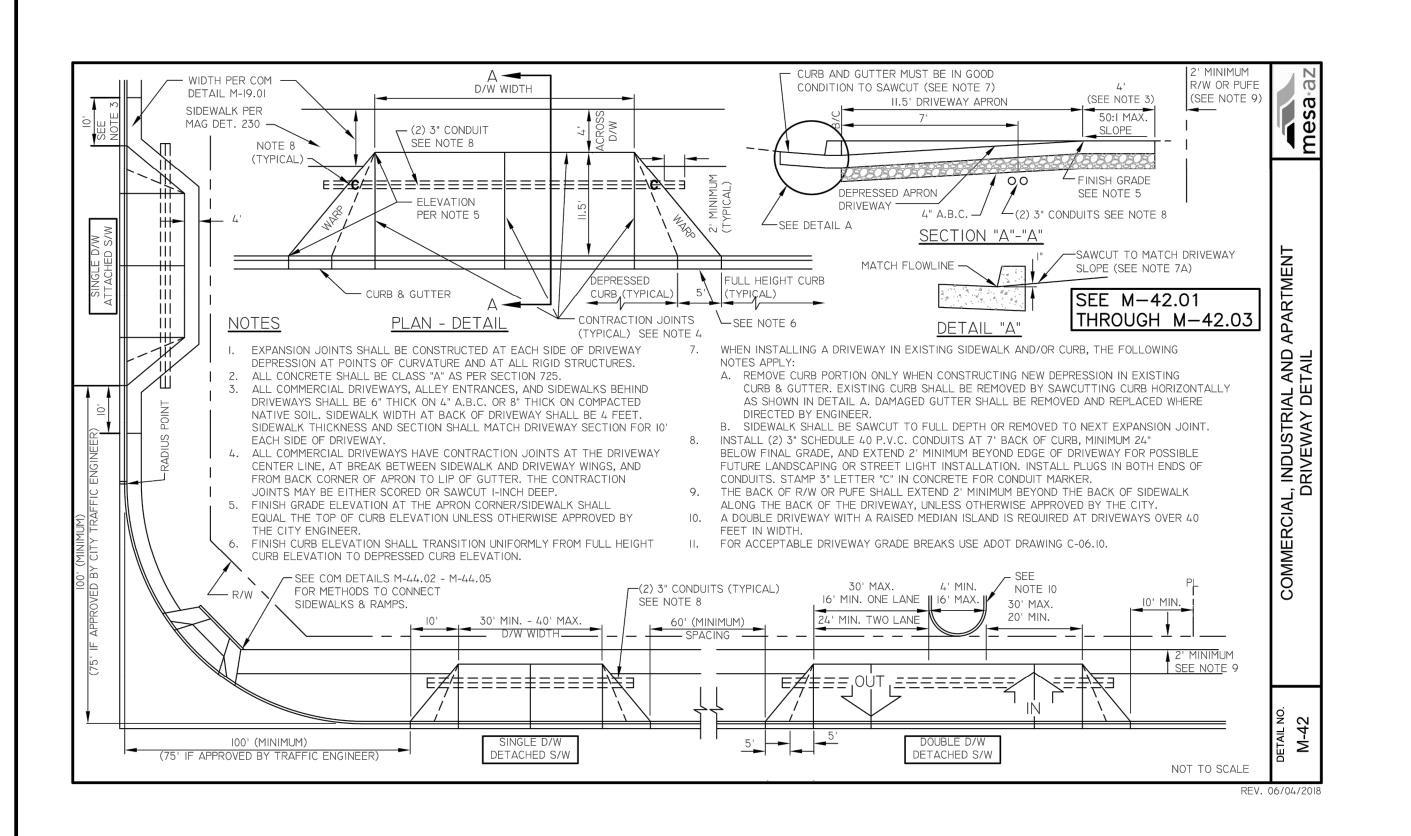
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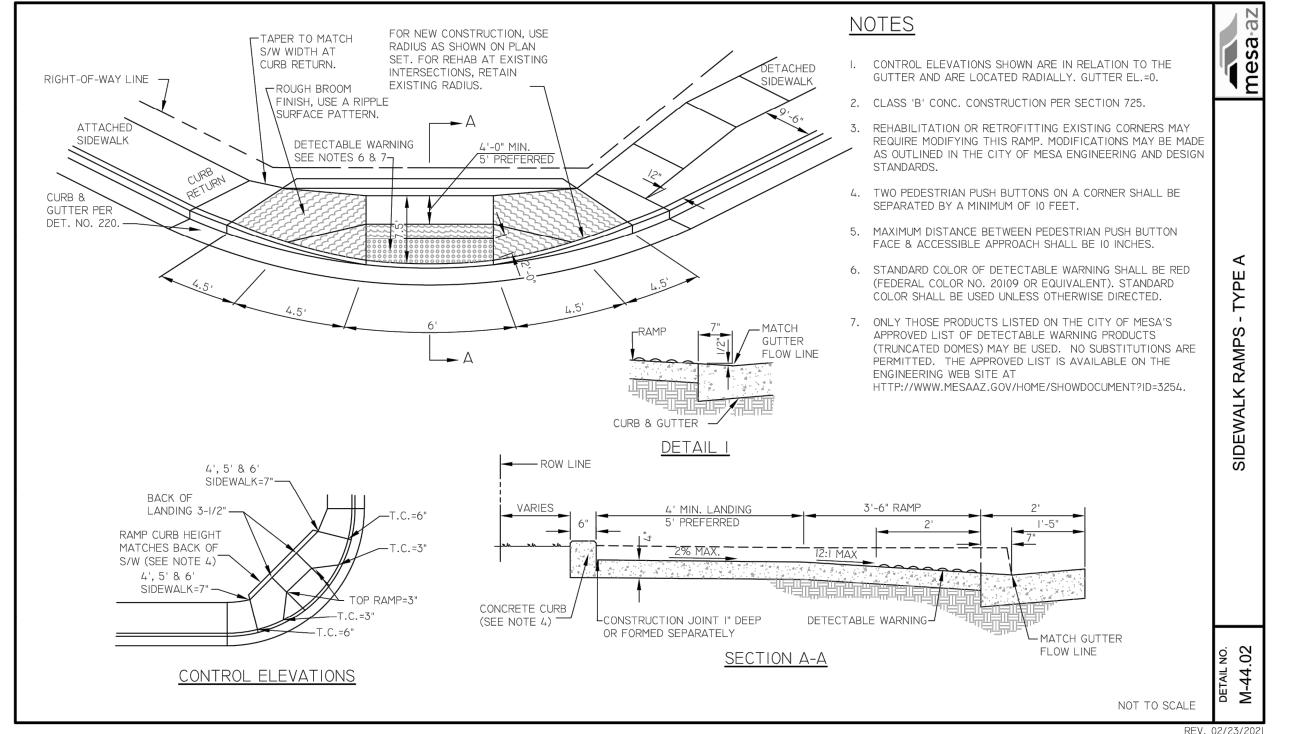
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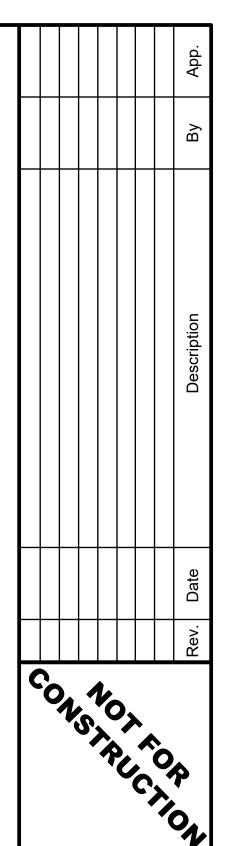
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Ref. is a trademate of Remonder Honomick of Remonder of Remonder Honomick & Common P. 8

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