



LAKE HAVASU CITY, ARIZONA

ADDENDUM NO. 1

MAIN STREET COMMONS, BATHROOM & CONCESSIONS BUILDING PROJECT Project B26-PW-101009-500676

DATED: JULY 30, 2025

Attention is called to the following changes, clarifications and/or deletions to the original solicitation, and they shall be considered in preparing submission:

There is no change in the bid opening date. **Submission are due no later than 3:00 pm, Arizona Time, August 6, 2025** at the City Clerk's Office, 2330 McCulloch Blvd. N., Lake Havasu City, AZ 86403.

ITEM	ACTION	DESCRIPTION or ISSUE
1.	Clarification	Geotechnical Engineering Study attached
2.	Clarification	Electrical Plans attached
3.	Clarification	List of Hardware Types attached
4.	Clarification	Pre-Bid Sign-In Sheet attached

The following questions were received from bidders in the original bid process. Answers are provided herein:

1. **Question:** *"May we get an engineer's estimate for bonding purposes?"*

Answer: The City does not give out the engineer's estimate. Contractor will need to come up with a calculation of what they think the cost is to construct and bond that amount.

2. **Question:** *“Are we going to receive a bid set of electrical plans for this project? The plans provided are only 75% progress set and missing information regarding the new panels for each.”*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

3. **Question:** *“Is it possible to get Site Utility Drawings for the sewer and water tie-ins?”*

Answer: There are stub outs for water and sewer in each corner approximately 50' from each proposed building.

4. **Question:** *“There are no civil plans provided with the bid invitation. Are civil plans going to be provided or is this work being done by the city? If work to be performed by GC will need civil plans provided for pricing surveying, earthwork, building pad, site concrete, site electrical, site plumbing, etc. All I see for any site items is in the bid schedule for pricing of sewer and water. Please advise.”*

Answer: There are no civil plans due to simplicity of project.

5. **Question:** *“The awnings for the first phase of the job and the product they used was from Benjamin Moor. It was an aliphatic epoxy, which is very pricey so my question is, are they wanting to use the same product”*

Answer: That would be submitted as an approved submittal. What is currently specified for exterior steel is sufficient.

6. **Question:** *“It was brought to my attention that the One-Line Diagram is missing on the plan for electrical. There is a place for it on E501-1 but no diagram pictured.”*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

7. **Question:** *"Is there power on site?"*

Answer: There is power on site, and it is located in northeast section of park as shown on plan sheet

8. **Question:** *"Is the city bringing power to the building?"*

Answer: The City will not be bringing power to the building.

9. **Question:** *"Please advise on the RFI Received from O & M electrical indicating electrical items missing from the plans. I was looking over the plans and didn't see a One-Line diagrams or panel schedules for the buildings. Also, on the site plan it just shows that there are existing power poles on site. Need to know what size of service (Amperage and Voltage) to each building and where is it coming from. Please advise..."*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

10. **Question:** *"Is the Fire alarm going to be a deferred submittal?"*

Answer: Yes, this will be a deferred submittal.

11. **Question:** *"Do the restrooms require a fire alarm system? If so, will there be a conduit that connects the two buildings?"*

Answer: The restrooms are exempt from a fire alarm system.

12. **Question:** *"I noticed that the electrical drawings are marked 75% set, Will there be a 100% set provided in an addendum?"*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

13. **Question:** *"The hardware sets have the wrong part numbers. I also noticed that the manufacturer listed on the hardware sets are not listed in the hardware spec."*

Answer: The hardware listing has been revised and is attached.

14. **Question:** *"May we get the one-line diagram."*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

15. **Question:** *"May you tell us where the UniSource connection point will be."*

Answer: Sheet E001 of the Main Street Commons- Concessions plan shows the location of the connection point.

16. **Question:** *"Can you please provide some clarification on the Unisource connection point and the single line drawings for electrical."*

Answer: Sheet E001 of the Main Street Commons- Concessions plan shows the location of the connection point.

17. **Question:** *"Due to this being a city project are all city permit fees waived for these buildings? To include encroachment fees if needed?"*

Answer: This is correct.

18. **Question:** *"Bid schedule item 2 indicates structural inspections by GC when special inspections cannot be provided by GC per code. Owner is to provide special inspections, this was discussed at pre-bid. Please update bid item 2 for quality control only."*

Answer: The Owner shall contract with a third-party inspection agent to perform all special inspections. Some rebar inspections will be performed by the City.

19. **Question:** *"Is it correct that all light fixtures are being purchased by the city and contractor installed? Please confirm as note 6 of light fixture schedule indicates install only."*

Answer: The City is not providing any light fixtures.

20. **Question:** *“Bid Item 3 environmental control measures. Is there anything beyond dust control and concrete washout expected to be included for this bid item?”*

Answer: No there is not.

21. **Question:** *“Please advise on the areas of construction to be fenced off and areas that will be allowed for contractor parking, laydown, and dumpsters while park is open?”*

Answer: The areas immediately around each structure will need to be fenced off. An area in the southeast corner, which composes of decomposed granite, south of the existing stage and north of McCulloch Blvd can be used for staging.

22. **Question:** *“Can you provide the dimensioned locations for the connection points for sewer and water for each building. Please confirm that there is actually stub outs from the street into the park area for concessions as if existing they would need to be located.”*

Answer: There are stub outs for water and sewer in each corner approximately 50' from each proposed building.

23. **Question:** *“Can you provide the dimensioned locations of the electrical boxes to be used for connecting power and SES. Provide conduit size and wire to be used for power service to buildings.”*

Answer: 100% electrical plans are attached. Please replace originally provided electrical sheets with these.

24. **Question:** *“Please provide list of owner provided Items and GC responsibility for installing items provided by others.”*

Answer: There is no owner provided items.

25. **Question:** *“Grading Requirements- What is the building pad foundation requirements for these buildings. There is no grade elevations provided for the*

buildings. Any depth of clean fill sand required under slab or just overexcitation and compaction of native soil?"

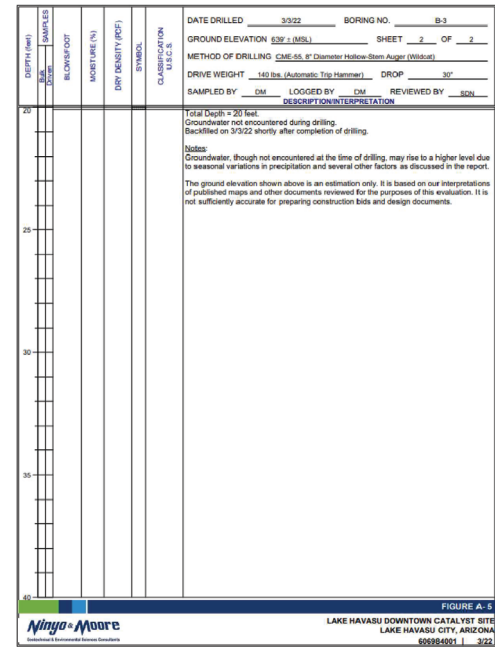
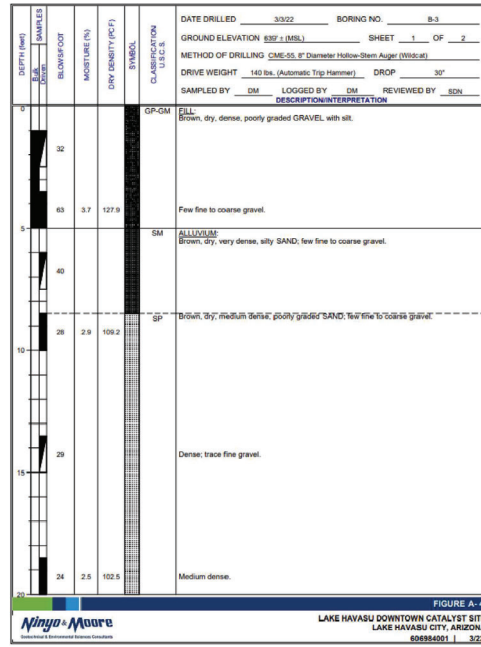
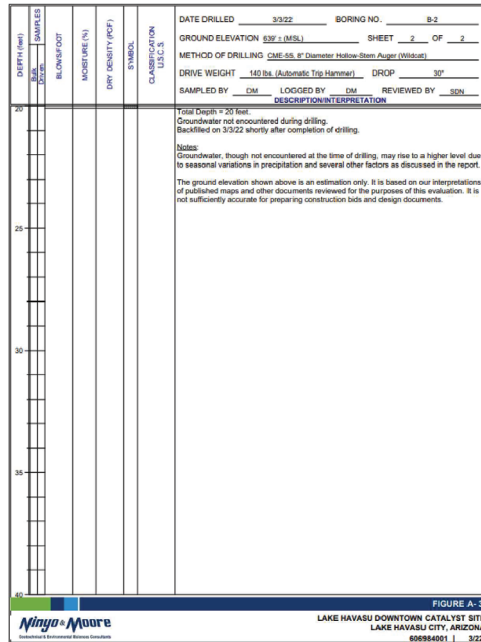
Answer: The exterior elevation sheets of both buildings show existing grade to be at a generic elevation of 100'. This is existing ground.

26. **Question:** *"Is there Geotech information available?"*

Answer: Please find attached a plan sheet from the original project that shows Geotech information.

Date: 7/30/2025

By:  527F308CC91D46D...
Capital Program Manager – Public Works



ELECTRICAL GENERAL NOTES													
GENERAL NOTES													
1. THE ELECTRICAL SYSTEMS DEFINED BY THESE PLANS AND THE SPECIFICATIONS ARE TO BE CONSTRUCTED AS COMPLETE AND OPERABLE SYSTEMS AND SHALL BE BID WITH THIS INTENT. THE CONTRACTOR SHALL VISIT THE SITE, READ ALL THE RELEVANT DOCUMENTS, AND BECOME FAMILIAR WITH THE TYPE OF CONSTRUCTION AND WORK TO BE ACCOMPLISHED. SHOULD ANY ERROR, OMISSION, OR CONFLICT EXIST IN EITHER THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING BEFORE SUBMITTING THEIR BID. PRICE SO A CHANGE CAN BE ISSUED IN A PRE-BID ADDENDUM. OTHERWISE, THE CONTRACTOR AND/OR EQUIPMENT SUPPLIERS SHALL SUPPLY THE PROPER MATERIALS AND LABOR TO INSTALL COMPLETE AND OPERABLE SYSTEMS INCLUSIVE OF THE ORIGINAL BID. WHEN EACH ELECTRICAL SYSTEM IS COMPLETE, THE CONTRACTOR SHALL TEST AND CONFIRM ITS PROPER OPERATION. ANY INCOMPLETE SYSTEM SHALL BE MADE COMPLETE AND OPERABLE PRIOR TO PROJECT CLOSEOUT.													
2. THE ARCHITECTURAL AND MECHANICAL PLANS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS SO FAR AS ANY ELECTRICAL ITEMS THEY MAY CONTAIN. THE ELECTRICAL CONTRACTOR SHALL REFER TO AND COORDINATE WITH THEM. NO EXTRA COST SHALL BE ALLOWED FOR FAILURE TO COORDINATE THE CONTRACT DOCUMENTS WITH OTHER TRADES AND/OR IF EQUIPMENT DIMENSIONS ARE GREATER THAN SPECIFIED AND/OR DIMENSIONS ON THE PLANS.													
3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE EQUIPMENT, MATERIALS, AND LABOR FOR THE CONNECTIONS OF ALL EQUIPMENT SHOWN ON THE PLANS, ARCHITECTURAL, MECHANICAL, ETC.													
4. THIS PROJECT IS TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MOST RECENT LOCAL, STATE, AND NATIONAL CODES. IF AT ANY TIME DURING OR AFTER CONSTRUCTION SOMETHING IS FOUND TO BE INSTALLED IN VIOLATION OF THESE CODES LISTED ABOVE, IT SHALL BE CORRECTED BY THE CONTRACTOR.													
5. WHERE A RACEWAY ENTERS A BUILDING OR STRUCTURE FROM THE OUTSIDE, IT SHALL BE SEALED AS PER NEC 225.27.													
6. ALL ELECTRICAL EQUIPMENT THAT IS LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD OR FACTORY LABELED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS PER NEC 110.16. THE LABEL SHALL ALSO CONTAIN THE MAXIMUM AVAILABLE FAULT CURRENT AND THE DATE THE FAULT CURRENT CALCULATIONS WERE PERFORMED AS PER NEC 110.24.													
7. EACH DISCONNECTING MEANS SHALL BE LEGIBLY MARKED TO INDICATE ITS PURPOSE AND TO IDENTIFY THE CIRCUIT SOURCE THAT SUPPLIES THE DISCONNECTING MEANS PER NEC 110.22.													
8. ALL EQUIPMENT PROVIDED BY THE E.C. SHALL BE LISTED AND LABELLED BY A NATIONALLY RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, AND BE PROPERLY INSTALLED FOR THE CONDITIONS AND SPACE THAT EQUIPMENT IS BEING INSTALLED WITHIN.													
9. THE E.C. SHALL INSTALL A SEPARATE EQUIPMENT GROUNDING CONDUCTOR IN EACH CONDUIT RUN. CONDUIT SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR. THE E.C. SHALL GROUND THE ELECTRICAL SYSTEM IN ACCORDANCE WITH LOCAL AND NATIONAL CODES.													
10. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED. THE E.C. SHALL ROUTE THE CONDUITS AS REQUIRED BY THE CONDITIONS OF THE INSTALLATION AND SHALL COORDINATE WITH DUCTWORK, PIPING, EQUIPMENT, BUILDING STRUCTURE, AND OTHER POTENTIAL OBSTRUCTIONS.													
11. THE CONTRACTOR SHALL ALLOW THE MOVEMENT, BEFORE ROUGH-IN, OF ANY ELECTRICAL PANEL, DEVICE, LUMINAIRE, ETC. A DISTANCE OF 10 FEET WITHOUT REQUIRING ADDITIONAL COST TO THE PROJECT.													
12. THE E.C. SHALL SECURE ALL CONDUIT TO THE STRUCTURE AS IT IS SET IN PLACE USING INDUSTRY STANDARD METHODS AND PRACTICES. TO ASSURE ALL DEVICES ARE PROUDLY SET, THE ELECTRICAL CONTRACTOR SHALL SECURE ALL DEVICE BOXES WITH BRACKETS, HANGERS, ETC. DESIGNED FOR THE APPLICATION.													
13. MINIMUM SECUREMENT SHALL BE 1/2" UNDO. CONDUIT INSTALLED WITHIN THE BUILDING IN DRY LOCATIONS WITHIN WALL, CEILING, OR EXPOSED NOT SUBJECT TO PHYSICAL DAMAGE SHALL BE BWT WITH STEEL SET SCREW FITTINGS. IN EXTENSION LOCATIONS EXCEPT FOR THE SERVICE ENTRANCE, THE CONDUIT SHALL BE BWT WITH COMPRESSION-LOD TYPE FITTINGS. UNDERGROUND CONDUIT SHALL BE PVC (SCH 40) WITH CORN ELBOWS AND RISERS WRAPPED IN CORROSION RESISTANT MATERIALS WHERE IN DIRECT CONTACT WITH THE SOIL.													
14. FLEXIBLE CONDUIT SHALL BE LIMITED TO CONNECTIONS TO LIGHT FIXTURES AND FINAL CONNECTIONS TO MOTORS OR OTHER EQUIPMENT SUBJECT TO VIBRATION. LENGTHS OF FLEXIBLE OR SEAL-TITE CONDUIT SHALL NOT BE GREATER THAN 72 INCHES.													
15. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL EMPTY CONDUITS WITH 200LB RATED NYLON PULL CORD.													
16. BEFORE ANY ELECTRICAL CONDUIT, BOXES, ETC. ARE COVERED (FLOOR, CEILING, WALLS, ETC.), THEY SHALL BE APPROVED BY THE INSPECTING OFFICIAL (INSPECTOR).													
17. WHERE WIRE SIZE IS NOT SHOWN ON THE DRAWINGS FOR 20A, 120VAC BRANCH CIRCUITS, THE CIRCUIT SHALL CONSIST OF 2#12 (CU THHN) + #12 (CU THHN) GND IN 3/4" EMT CONDUIT. THIS WIRE SIZE SHALL BE INCREASED TO #10 (CU THHN) FOR BRANCH CIRCUITS WITH OVERALL LENGTHS EXCEEDING 125' TO ACCOMMODATE FOR VOLTAGE DROP. REFER TO EQUIPMENT SCHEDULES, FEEDER SCHEDULES, AND NOTES ON DRAWINGS FOR ALL OTHER BRANCH CIRCUIT AND FEEDER WIRE SIZES/OT SIZING.													
18. CONDUCTORS SHALL BE COPPER, 80VAC RATED, TYPE THW/THHN/2 UNDO. CONDUCTORS UP TO #14AWG SHALL BE SOLID AND CONDUCTORS #14AWG OR LARGER SHALL BE STRANDED.													
19. METAL CLAD CABLING MAY BE USED BETWEEN DEVICES SUCH AS LIGHTING, RECEPTABLES, SWITCHES, ETC. UNLESS OTHERWISE REQUIRED BY THE NEC. HOME RUNS SHALL BE INSTALLED IN CONDUIT. MC CABLE SHALL NOT BE INSTALLED EXPOSED.													
20. EC SHALL CLEAN THE ENTIRE ELECTRICAL SYSTEM AFTER COMPLETION OF THE INSTALLATION. REMOVE ALL FINGER PRINTS, FOREIGN MATTER, PAINT, DIRT, GREASE, AND UN-NEEDED LABELS OR STICKERS FROM FITTINGS AND EQUIPMENT. REMOVE ALL RUBBISH AND DEBRIS ACCUMULATED DURING INSTALLATION FROM THE PREMISES.													
21. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS FOR ALL DEVICES TO BE FLUSH MOUNTED AND CONDUIT/CABLEING INSTALLED CONCEALED WITHIN WALLS/CEILING. IN AREAS WHERE CONDUIT MUST BE INSTALLED EXPOSED IT SHALL BE COORDINATED WITH THE ARCHITECT AND/OR ENGINEER. ALL EFFORTS SHALL BE MADE TO CONCEAL WIRING METHODS.													
22. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE SEALED WITH FIRE STOPPING, IE, 3M BRAND CALK, PUTTY, STRIP AND BREITZ GEMAL DOW CORNING 346M ELASTOMER EBY FORM.													
23. COORDINATE LOCATION OF WALL MOUNTED DEVICES WITH CABINETRY AND OTHER WALL OBSTRUCTIONS. COORDINATE CEILING MOUNTED DEVICES WITH CEILING OBSTRUCTIONS. ANY DEVICES THAT NEED TO BE RELOCATED MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR NEW LOCATION.													
24. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ALL DEVICES INSTALLED WITHIN THE CEILING SUCH AS LIGHTING, SPEAKERS, FIRE SPRINKLERS, BROKEN-HATE DETECTORS, ETC. ANY EXISTING DEVICES THAT NEED TO BE RELOCATED IN ORDER TO ACCOMMODATE NEW CONSTRUCTION/REMODEL MUST BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER PRIOR TO ROUGH-IN FOR RESOLUTION AND FURTHER DIRECTION.													
25. WHERE THE PREMISES WIRING SYSTEM HAS BRANCH CIRCUITS FROM MORE THAN ONE NOMINAL VOLTAGE, EACH UNGROUNDED CONDUCTOR OF A BRANCH CIRCUIT SHALL BE IDENTIFIED BY PHASE OR LINE AND BY SYSTEM VOLTAGE CLASS AT ALL TERMINATION, CONNECTION, AND SPICE POINTS. IDENTIFICATION MARKING SHALL BE POSTED AT EACH BRANCH CIRCUIT PANELBOARD.													
ALL CONDUCTORS SHALL BE COLOR-CODED AS FOLLOWS:													
<table><tr><td>PHASE</td><td>240/120</td></tr><tr><td>PHASE A</td><td>BLACK</td></tr><tr><td>PHASE B</td><td>RED</td></tr><tr><td>PHASE C</td><td>BLUE</td></tr><tr><td>NEUTRAL</td><td>WHITE</td></tr><tr><td>GROUND</td><td>GREEN</td></tr></table>		PHASE	240/120	PHASE A	BLACK	PHASE B	RED	PHASE C	BLUE	NEUTRAL	WHITE	GROUND	GREEN
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PHASE C	BLUE												
NEUTRAL	WHITE												
GROUND	GREEN												
REMODEL NOTES													
26. THE E.C. SHALL COORDINATE AND CONFIRM THE EXACT LOCATION OF THE EXISTING POWER PANELS FROM WHICH NEW CIRCUITS ARE BEING FED. VERIFY EXISTING BRANCH CIRCUIT BREAKERS AND PROVIDE NEW BRANCH CIRCUIT BREAKERS AS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.													
27. THE E.C. SHALL MAINTAIN ELECTRICAL CONTINUITY TO REMAINING EQUIPMENT WHEN ANY EXISTING ELECTRICAL EQUIPMENT IS REMOVED.													
28. ALL DEVICES NOT SHOWN ON PLANS ARE EXISTING TO REMAIN IN PLACE AND FUNCTIONAL. IN THE EVENT THAT WIRING TO AN EXISTING DEVICE IS DAMAGED, WIRING MUST BE REPLACED AND DEVICE BROUGHT BACK TO FULL OPERATION.													
SITE NOTES													
29. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL COORDINATE WITH COMMUNICATIONS DATA, CABLE TV, GAS, AND WATER UTILITY PROVIDERS (SEE STAKES), 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.													
LIGHTING NOTES													
30. ALL BATTERY POWERED OR CONTINUOUS BURN LUMINAIRES SHOWN ON THE PLANS, SUCH AS EXIT LIGHTS, NIGHT LIGHTS, OR EMERGENCY LIGHTS, SHALL BE CONNECTED TO THE UN-SWITCHED LEG OF THE LIGHTING CIRCUIT FEEDING THAT AREA.													
31. LUMINAIRES INSTALLED IN THE MECHANICAL ROOM SHALL BE PLACED SO THAT ALL EQUIPMENT IS ADEQUATELY ILLUMINATED AFTER THE MECHANICAL EQUIPMENT IS IN PLACE.													
32. ALL LUMINAIRES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND NOT THE CEILING GRID OR OTHER NONSTRUCTURAL MEMBERS.													
33. TO MAINTAIN CONSISTENT LIGHT QUALITY FOR ANY ONE LAMP TYPE SUPPLIED, LAMPS SHALL BE OF THE SAME MANUFACTURER, SURFACE TEMPERATURE, COLOR RENDERING INDEX, LAMP EFFICACY, LUMEN OUTPUT, AND STARTING CHARACTERISTICS FOR ALL INSTALLED.													
34. LIGHT FIXTURES INSTALLED IN DAMP OR WET LOCATIONS SHALL BE UL LISTED FOR INSTALLATION IN THE PROPER ENVIRONMENT. CARE SHOULD BE TAKEN TO ENSURE THAT DIFFUSERS AND LENSES ARE APPROPRIATE FOR THE INSTALLED USE AND PREVENTURE DISCOLORATION WILL NOT RESULT DUE TO EXPOSURE TO UV LIGHT, CHEMICALS, OR OTHER CONDITIONS.													
35. ELECTRICAL CONTRACTOR SHALL PROVIDE LIGHTING CONTROL. SHOP DRAWINGS WITH ELECTRICAL SUBMITTAL FOR REVIEW.													
POWER NOTES													
36. ALL PANELBOARDS AND SWITCHBOARDS SHALL BE PERMANENTLY MARKED TO INDICATE EACH DEVICE OR EQUIPMENT WHERE THEIR POWER ORIGINATES AS PER NEC 408.48.													
37. ELECTRICAL CONTRACTOR SHALL CONFIRM MINIMUM CODE (NEC) WORKING CLEARANCE BEFORE INSTALLING ANY ELECTRICAL DEVICES ON CABINETS AND SHALL MOVE THE PANELS IF REFLECTED BY AN INSPECTOR. IF CLEARANCE IS NOT POSSIBLE, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING.													
38. WIRING DEVICES SHALL HAVE A STAINLESS STEEL COVER PLATE. COLOR SHALL BE COORDINATED WITH ARCHITECT. EXTERIOR OUTLETS SHALL HAVE CLAD COVERS WITH FLIP COVER LIDS UNDO.													
39. EC SHALL COORDINATE WITH EQUIPMENT SUPPLIERS ON THE EXACT LOCATIONS OF ALL EQUIPMENT AND ELECTRICAL CONNECTIONS PRIOR TO ROUGH-IN. THE E.C. SHALL MAKE THE FINAL CONNECTION TO ALL EQUIPMENT UNLESS OTHERWISE DIRECTED BY THE EQUIPMENT SUPPLIER. OBTAIN FROM SUPPLIERS ALL WIRING DIAGRAMS FOR EQUIPMENT PRIOR TO INSTALLATION. TO ASSURE THAT PROPER CHARACTERISTICS ARE PROVIDED, ANY INCORRECT WIRING OR DEVICES INSTALLED BY THE E.C. WITHOUT THE WIRING DIAGRAM SHALL BE CORRECTED AT THE E.C.'S EXPENSE. PROVIDE COPIES OF WIRING DIAGRAMS WITH EACH PIECE OF EQUIPMENT AND ADDITIONAL DATA WITH THE OPERATION AND MAINTENANCE MANUALS.													
40. EC SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR TO PROVIDE CONDUIT AND DEVICE MOUNTING BOXES FOR THERMOSTATS AND OTHER MECHANICAL CONTROLS. REFER TO MECHANICAL DRAWINGS FOR THE LOCATION OF THERMOSTATS.													
41. EC SHALL PROVIDE A 20AMP, 120VAC RECEPTACLE INSTALLED AT AN ACCESSIBLE LOCATION FOR THE SERVICING OF HEATING, AIR CONDITIONING, AND REFRIGERATION EQUIPMENT PER NEC 210.63. RECEPTACLE SHALL BE OF THE GROUND FAULT CIRCUIT INTERRUPTING TYPE, INSTALLED WITHIN A CAST METAL BOX, AND WITHIN 2' OF ALL REQUIRED EQUIPMENT.													
ROOF NOTES													
42. ELECTRICAL CONTRACTOR TO INSTALL A ROOF JACK (BOOT) FOR ALL CONDUIT PENETRATIONS THROUGH THE ROOF. ALL ROOF PENETRATION SEALS SHALL BE IN ACCORDANCE WITH THE ROOF WARRANTY AND BE COMPLETELY SEALED WITH ROOF ADHESIVE. UTILIZE PROPER CLAMPING METHODS TO SEAL BOOT AROUND CONDUIT.													

ELECTRICAL SYMBOL SCHEDULE			
SYMBOL	DESCRIPTION	MOUNTING	NOTES
	LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1, 2
	EMERGENCY LIGHT FIXTURE - SURFACE OR RECESSED	SEE DRAWINGS	1
	LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1
	EMERGENCY LIGHT FIXTURE - OPEN STRIP	SEE DRAWINGS	1, 2
	LIGHT FIXTURE - WALL MOUNTED	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL MOUNTED	WALL	1, 2
	LIGHT FIXTURE - DOWNLIGHT	CEILING	1
	EMERGENCY LIGHT FIXTURE - DOWNLIGHT	CEILING	1, 2
	LIGHT FIXTURE - WALL WASH DOWNLIGHT	CEILING	1
	LIGHT FIXTURE - CEILING MOUNTED	CEILING	1
	LIGHT FIXTURE - PENDANT (CHANDLIER)	CEILING	1
	LIGHT FIXTURE - WALL BRACKET	WALL	1
	EMERGENCY LIGHT FIXTURE - WALL BRACKET	WALL	1, 2
	TRACK LIGHTING	SURFACE	1
	EXIT SIGN - WALL MOUNT	WALL	1, 2, 3
	EXIT SIGN - CEILING MOUNT	CEILING	1, 2, 3
	EXIT SIGN IN EMERGENCY HEADS - WALL MOUNT	WALL	1, 2, 3
	EXIT SIGN IN EMERGENCY HEADS - CEILING MOUNT	CEILING	1, 2, 3
	DUAL HEAD EMERGENCY LIGHT FIXTURE	WALL	1, 2
	POLE LIGHT FIXTURE	POLE	1
	STEP LIGHT	WALL	1
	LIGHT BOLLARD	SURFACE	1
	GROUND MOUNTING / IN-GRADE LIGHT FIXTURE	GROUND	1
	OCCUPANCY / VACANCY SENSOR - CEILING MOUNT	CEILING	1
	TIME CLOCK - 7 DAY	60"	
	PHOTO-ELECTRIC CELL WITH RELAY	SURFACE	1
	CURRENT LIMITING DEVICE	SURFACE	1
	WALL OCCUPANCY / VACANCY SENSOR SWITCH	48" TO TOP	
	SINGLE POLE SWITCH	48" TO TOP	
	THREE WAY SWITCH	48" TO TOP	
	FOUR WAY SWITCH	48" TO TOP	
	DAMPER SWITCH	48" TO TOP	
	LOW VOLTAGE SWITCH	48" TO TOP	
	TIMER SWITCH - 30 MINUTE	48" TO TOP	
	PILOT LIGHT SWITCH	48" TO TOP	
	THERMAL OVERLOAD SWITCH	48" TO TOP	
	2-POLE SWITCH	48" TO TOP	
	SINGLE POLE KEYED SWITCH	48" TO TOP	
	DUPLEX OUTLET - 20A, 120VAC	18" UNDO	
	DUPLEX OUTLET - 20A, 120VAC - GFCI	18" UNDO	
	DUPLEX OUTLET - SPLIT WIRES	18" UNDO	
	DUPLEX OUTLET - ISOLATED GROUND	18" UNDO	
	DUPLEX OUTLET WITH USB & USB-C PORTS	18" UNDO	
	DUPLEX OUTLET - OCCUPANCY SENSOR CONTROLLED	18" UNDO	
	DUPLEX OUTLET - 20A, 120VAC - CEILING	CEILING	
	DUPLEX OUTLET - 20A, 120VAC - FLOOR	FLOOR	
	FOURPLEX OUTLET - 20A, 120VAC	18" UNDO	
	FOURPLEX OUTLET - 20A, 120VAC - GFCI	18" UNDO	
	FOURPLEX OUTLET - ISOLATED GROUND	18" UNDO	
	FOURPLEX OUTLET - 20A, 120VAC - CEILING	CEILING	
	FOURPLEX OUTLET - 20A, 120VAC - FLOOR	FLOOR	
	APPLIANCE OUTLET - 208/240V SINGLE PHASE	18" UNDO	
	APPLIANCE OUTLET - 208/240V 3-PHASE	18" UNDO	
	SINGLE DUPLEX OUTLET - 20A, 120VAC	18" UNDO	
	MULTI-OUTLET METAL SURFACE RACEWAY	44" UNDO	7
	DATA OUTLET	18" UNDO	
	TELEPHONE/ DATA OUTLET	18" UNDO	
	DATA OUTLET - FLOOR	FLOOR	
	DUAL TELEPHONE/ DATA OUTLET - FLOOR	FLOOR	
	CEILING DATA OUTLET - WIRELESS ACCESS POINT	CEILING	
	CABLE TELEVISION OUTLET	18" UNDO	

	JUNCTION BOX	SURFACE	
	WALL JUNCTION BOX	1" - 4" UNDO	
	FLOOR JUNCTION BOX	FLOOR	
	DISCONNECT SWITCH - NON-FUSED	8" - 12" UNDO	4
	DISCONNECT SWITCH - FUSED	8" - 12" UNDO	4
	DISCONNECT SWITCH - SHUNT TRIP	8" - 12" UNDO	4
	COMBINATION MAGNETIC STARTER/DISCONNECT	8" - 12" UNDO	4
	MOTOR STARTER	8" - 12" UNDO	
	MOTOR	8" - 12" UNDO	
	METER - PLAN VIEW	WALL	
	PUSH BUTTON SWITCH	4" - 6"	
	EMERGENCY POWER SHUTOFF SWITCH	4" - 6"	
	PANELBOARD - SURFACE MOUNTED	8" - 4" TO TOP	
	PANELBOARD - RECESSED	8" - 4" TO TOP	
	TELEPHONE - PLAN VIEW	PAD/FLOOR	
	TELEPHONE TERMINAL BOARD	WALL	
	CIRCUIT BREAKER	METER - ONE LINE	
	MLO PANEL - ONE LINE	TRANSFORMER - ONE LINE	
	MCB PANEL - ONE LINE	PAD MOUNT XFMR - ONE LINE	
	AUTOMATIC TRANSFER SWITCH	GROUND SLEEVE - ONE LINE	
	CT ENCLOSURE - ONE LINE	FUSED DISCONNECT - ONE LINE	
	CURRENT TRANSFORMER	FUSED SWITCH	
	ON RISER	CABLE/RACEWAY SIZE TAG	
	REVISED NOTE TAG	DETAIL VIEW NUMBER	
	MECH/ELEC. EQUIPMENT TAG	DETAIL VIEW REFERENCE TAG	
	OTHER EQUIPMENT TAG	SHEET NUMBER	
	WIRING / CONDUIT	UNDERGROUND/FLOOR WIRING	
	CONDUIT TURNED UP	CONDUIT TURNED DOWN	
	CIRCUIT HOME RUN TO PANEL	# OF ARROWHEADS INDICATE # OF CIRCUITS (SEPARATE NEUTRAL PER CIRCUIT). BOTH EX. INCLUDE AN EQUIP. GROUND.	
NOTES			
1. SEE LIGHT FIXTURE SCHEDULE FOR TYPE, MOUNTING, AND OTHER SPECIFICS.			
2. CONNECT EMERGENCY AND/OR EXIT LIGHTS TO THE UNWITHEDED SIDE OF THE AREA LIGHTING BRANCH CIRCUIT.			
3. ARROW DEVICES EXIST DIRECTION.			
4. USE HEAVY DUTY FOR 480 VOLT.			
5. MOUNT SWITCH AT DOOR JAM PER MANUFACTURER'S INSTRUCTIONS.			
6. PROVIDE (A) LISTED DEVICE TO BE USED WITH THE FIRE ALARM PANEL SYSTEM OR PROVIDE A MONITOR MODULE TO CONNECT INTO FIRE ALARM SYSTEM.			
7. PROVIDE RACEWAY WITH OUTLETS 12" ON CENTER UNDO.			
ABBREVIATIONS			
AFIC - ARC FAULT CXT INTERRUPTER	MCU - MOTOR CONTROL CENTER		
AFI - ABOVE FINISHED FLOOR	MD - MAIN DISTRIBUTION PANEL		
AFI - ABOVE FINISHED GRADE	MLO - MAIN LUGS ONLY		
AC - AMPER INTERRUPTING CAPACITY	MOCP - MAX OVERCURRENT PROTECTION		
AL - ALUMINUM	(N) - NEW		
ATS - AUTOMATIC TRANSFER SWITCH	NEC - NOT IN CONTRACT		
BC - BARE COPPER	NFC - NATIONAL ELECTRICAL CODE		
BFC - BELOW FINISHED CEILING	NFPA - NATIONAL FIRE PROTECT. ASSN		
BFG - BELOW FINISHED GRADE	NL - NIGHT LIGHT		
C - CORD - CONDUIT	NR - NOT REQUIRED		
CCT - CIRCUIT	NTS - NOT TO SCALE		
CLD - INSTALLED IN CEILING	PC - PLUMBING CONTRACTOR		
C.R. - CORD REEL	PH - PHASE		
CT - CURRENT TRANSFORMER	PL - PANEL		
CO - COPPER	POC - POINT OF CONNECTION		
(E) - EXISTING TO REMAIN	POS - POINT OF SALE		
(R) - RELOCATED	RC - RECEPTACLE		
EM - EMERGENCY	RM - RIGID METAL CONDUIT		
EM - EMERGENCY	SCA - SHORT CIRCUIT AMPERES		
(F) - FUTURE	SCBA - SELECT COLOR BY ARCHITECT		
FA - FIRE ALARM CONTROL PANEL	SES - SERVICE ENTRANCE SWITCHGEAR		
FLA - FULL LOAD AMP	SFD - SURGE PROTECTIVE DEVICE		
FNWR - FULL VOLTAGE NON REVERSING	TL - TRUST LOCK		
GC - GENERAL CONTRACTOR	TIB - TELEPHONE TERMINAL BOARD		
GFCI - GROUND FAULT CXT INTERRUPTER	TR - TRIPPER RESISTANT		
GND - GROUND	TYP - TYPICAL		
HP - HOMEPower	UN - UNLESS NOTED OTHERWISE		
IG - ISOLATED GROUND	VA - VOLTAMPS		
KL - KILOWATTS	VF - VERIFY IN FIELD		
LVP - LIGHTING CONTROL PANEL	VR - VANDAL RESISTANT		
LTD - LIGHTING	WV - WEATHERPROOF/WEA 3R		
LOW VOLTAGE	WU - WIRING WITH UNIT		
MCA - MINIMUM CIRCUIT AMPS	XFMR - TRANSFORMER		
MCM - MAIN CIRCUIT BREAKER			

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL GENERAL SHEET
E001	ELECTRICAL SITE PLAN
E001	CONCESSIONS ELECTRICAL PLAN
ES01	ELECTRICAL DETAILS



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PROJECT NO. 24134
DATE: 19 JUNE 2025

REVISION:

SHEET FILE:
ELECTRICAL
GENERAL SHEET

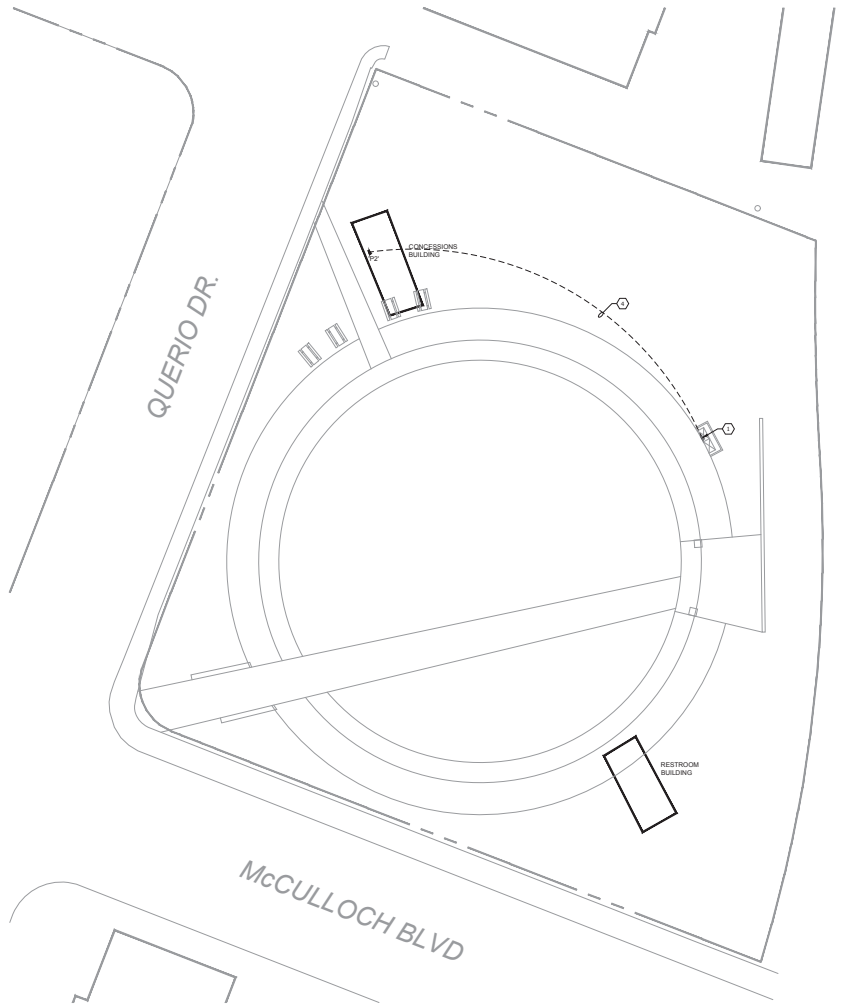
SHEET NUMBER:

E000
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BID SET



1
E001
ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"



KEYED NOTES
1. EXISTING PANEL 'A' 120/240V, SINGLE PHASE, 600A MCB 2. REFER TO ONE-LINE DIAGRAM ON SHEET E001 FOR FEEDER FROM EXISTING PANEL 'A' TO CONCESSIONS PANEL 'P2' PROVIDE 100A-UP BREAKER FOR FEEDER
GENERAL NOTES
A. FIELD VERIFY EXACT LOCATION AND MANUFACTURER OF EXISTING PANELS 'A' AND 'B'. NEW FEEDER BREAKERS SHALL BE COMPATIBLE WITH EXISTING PANELS. B. REFER TO UNDERGROUND CONDUIT DETAIL ON SHEET E001 FOR MORE INFORMATION.



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LAKE HAVASU CITY, AZ 86403

PROJECT NO. 24134
DATE: 19 JUNE 2025

SHEET TITLE:
ELECTRICAL SITE
PLAN

SHEET NUMBER:
E001



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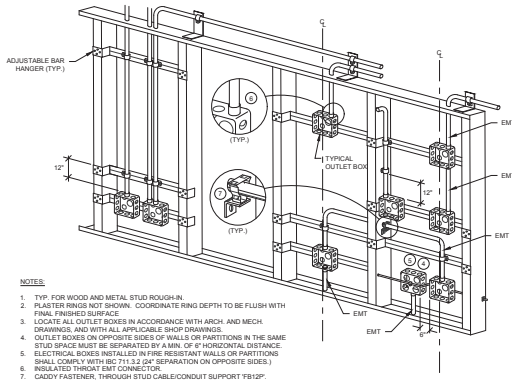
PROJECT NO. 24134
DATE: 19 JUNE 2025
REVISION:

SHEET TITLE:
CONCESSIONS
LIGHTING & POWER
PLANS

E101



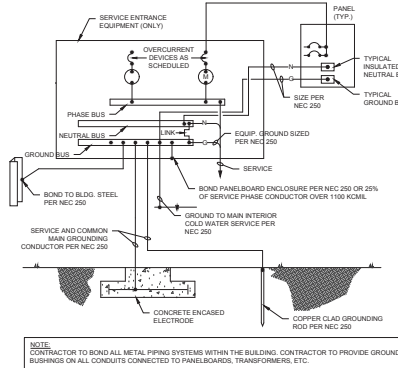
BID SET



NOTES:

1. TYP. FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN. COORDINATE RING DEPTH TO BE FLUSH WITH FINAL FINISHED SURFACE.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCH. AND MECH. DRAWINGS, AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE MUST BE SEPARATED BY A MIN. OF 6" HORIZONTAL DISTANCE.
5. ELECTRICAL BOXES INSTALLED IN FIRE RESISTANT WALLS OR PARTITIONS SHALL COMPLY WITH BC 711.2.2 (2" SEPARATION ON OPPOSITE SIDES).
6. INSULATED THREAT EMT CONNECTOR.
7. CADDY FASTENER, THROUGH STUD CABLE/CONDUIT SUPPORT 7812P.

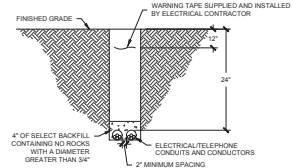
1 TYPICAL ROUGH-IN DETAIL
NO SCALE



NOTE:

CONTRACTOR TO BOND ALL METAL PIPING SYSTEMS WITHIN THE BUILDING. CONTRACTOR TO PROVIDE GROUND BUNDLING ON ALL CONDUITS CONNECTED TO PANELBOARDS, TRANSFORMERS, ETC.

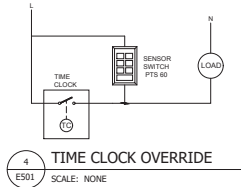
2 TYPICAL GROUNDING/BONDING DETAIL
NO SCALE



NOTES:

1. ELECTRICAL SERVICE CONDUIT AND CONDUCTORS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. BURIAL DEPTH SHALL BE PER NEC TABLE 305.3.
2. TELEPHONE SERVICE CONDUIT SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELEPHONE SERVICE CABLES SHALL BE PROVIDED BY THE LOCAL TELEPHONE COMPANY. COORDINATE WITH LOCAL TELEPHONE COMPANY FOR ANY SPECIFIC REQUIREMENTS.
3. THE QUANTITY/SIZE OF CONDUITS AND/OR CONDUCTORS SHALL BE AS CALLED OUT ON THE ELECTRICAL DRAWINGS. COORDINATE WITH THE ELECTRICAL ENGINEER.

3 UNDERGROUND CONDUIT DETAIL
NO SCALE

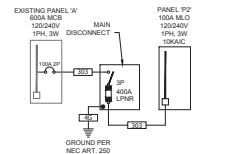


4 TIME CLOCK OVERRIDE
SCALE: NONE

CONDUIT/CONDUCTOR SCHEDULE									
MARK	AMPS	CONDUIT	CUAL	PHASE	NEUTRAL	GROUND	NOTES		
ES01	200	2"		CU	(S) 3/8"	3/8"	6	1	

- NOTES:
1. CONDUCTOR INSULATIONS TO BE RATED THIN 2 THIN 80°C.
 2. GROUNDING ELECTRODE CONDUCTOR TO BE BONDED TO ALL AVAILABLE GROUNDING ELECTRODES.
 3. CONTRACTOR TO PROVIDE SERVICE LATERAL CONDUIT FROM THE TRANSFORMER TO THE METER. CONDUCTORS ARE TO BE PROVIDED, INSTALLED, AND TERMINATED BY MEP.

KEYED NOTES									
1.	PROVIDE A NAMEPLATE ON EACH ELECTRICAL PANEL AND SERVICE DISCONNECT WITH AVAILABLE FAULT CURRENT AND THE DATE WHICH THE CALCULATIONS WERE PERFORMED (XXXXXX) PER NEC 110.24. ON THE NAMEPLATE STATE WHERE POWER ORIGINATES FROM IN ACCORDANCE WITH NEC 408.40B.								



5 ONE-LINE DIAGRAM
NO SCALE

EQUIPMENT SCHEDULE														
MARK	DESCRIPTION	ELECTRICAL					STARTER / OVERCURRENT PROTECTION					REMARKS		
		V	PH	KW	HP	MCA	FLA	MCCP	CONDUIT SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE	WIRE SIZE
BE-02	REGULATOR	120	1			6.2	20	3/4"	2	12	12	-	-	12A
BE-03	1000W REFRIGERATOR	120	1			6.1	20	3/4"	2	12	12	-	-	12A
EW-01	WATER HEATER	120	1			20.8	30	3/4"	2	10	10	-	-	1A
EV-01	EVAPORATOR UNIT	240	1									-	-	1A
CO-01	CONDENSING UNIT	240	1									-	-	1A
RTU-01	ROOFTOP UNIT	240	1			28	40	1"	2	8	10	-	-	30/3

- REMARKS:
1. FUSED DISCONNECT SWITCH
 2. NON-FUSED DISCONNECT SWITCH
 3. BREAKER IN ENCLOSURE
 4. THERMAL OVERLOAD SWITCH
 5. TROUBLE SWITCH
 6. MAGNETIC STARTER
 7. MAGNETIC STARTER/NON-FUSED DISCONNECT SWITCH
 8. MAGNETIC STARTER/FUSED DISCONNECT COMBINATION
 9. MAGNETIC STARTER/BREAKER COMBINATION
 10. REMOVED VOLTAGE STARTER
 11. VARIABLE FREQUENCY DRIVE
 12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.
 13. DIRECT CONNECTION
 14. DUCT DETECTOR IN RETURN DUCT
 15. SWITCH WITH LIGHTS

PANEL SCHEDULE									
P2									
MARK	DESCRIPTION	LOAD	WIRE	CONDUIT	WIRE	CONDUIT	WIRE	CONDUIT	WIRE
1	REC. STORAGE	1000	2	1	1860	1	1860	1	1860
2	REFRIGERATOR	700	2	1	732	2	0	0	0
3	REC. CONDOSSION	300	2	1	3220	1	1180	1	1180
4	REFRIGERATOR	700	2	1	732	2	0	0	0
5	REFRIGERATOR	700	2	1	732	2	0	0	0
6	REFRIGERATOR	700	2	1	732	2	0	0	0
7	REFRIGERATOR	700	2	1	732	2	0	0	0
8	REFRIGERATOR	700	2	1	732	2	0	0	0
9	REFRIGERATOR	700	2	1	732	2	0	0	0
10	REFRIGERATOR	700	2	1	732	2	0	0	0
11	REFRIGERATOR	700	2	1	732	2	0	0	0
12	REFRIGERATOR	700	2	1	732	2	0	0	0
13	REFRIGERATOR	700	2	1	732	2	0	0	0
14	REFRIGERATOR	700	2	1	732	2	0	0	0
15	REFRIGERATOR	700	2	1	732	2	0	0	0
16	REFRIGERATOR	700	2	1	732	2	0	0	0
17	REFRIGERATOR	700	2	1	732	2	0	0	0
18	REFRIGERATOR	700	2	1	732	2	0	0	0
19	REFRIGERATOR	700	2	1	732	2	0	0	0
20	REFRIGERATOR	700	2	1	732	2	0	0	0
21	REFRIGERATOR	700	2	1	732	2	0	0	0
22	REFRIGERATOR	700	2	1	732	2	0	0	0
23	REFRIGERATOR	700	2	1	732	2	0	0	0
24	REFRIGERATOR	700	2	1	732	2	0	0	0
TOTALS		15,880			9,566		6,924		

PANEL NOTES:
OVERCURRENT PROTECTIVE DEVICES SHALL HAVE SAME AIC RATING AS PANEL THEY ARE LOCATED IN.

CONCESSION LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	DELIVERED LUMENS / CCT	CONTROL	MOUNTING	LOAD(WA)	DESCRIPTION	NOTES
F1	Pinnacle	EXMD-BNVA-835H0-4-0-L-FSD-1-0-BL-DLMFC	UNV	3000 LUMENS / 3500K	0-10V	SURFACE	30	4 LED DIRECT LINEAR FOR SURFACE MOUNT	4
F1E	Same as F1	With Emergency Battery Backup							
F2	APR	WYNN650L3002BK	120V	424 LUMENS / 3000K	0-10V	SURFACE	12	LED OUTDOOR WALL SCIENCE	4
F3	APR	EYVW64SL402BK	120V	1000 LUMENS / 3000K	0-10V	SURFACE	12	LED OUTDOOR CEILING SURFACE CYLINDER DOWNLIGHT	4
F4	Pinnacle	LP240-AL-835M0-5-L-FSD-1-0-BL-DLMFC	UNV	7000 LUMENS / 3500K	0-10V	SURFACE	63	24 LED DIRECT SUSPENDED ARCHITECTURAL SQUARE	4
F4E	Same as F4	With Emergency Battery Backup							
F5	EXNILLITE	VALEMB62-CT	UNV	1050 LUMENS / 5000K	-	WALL	15	ARCHITECTURAL EMERGENCY WITH NICAD BATTERY COLD WEATHER RATED	4
F6	EXNILLITE	TLXEM-GU-VH-SD	UNV	-	-	WALL / CEILING	1	THERMOPLASTIC EXT. SIGN WITH NICHEL CADMIUM BATTERY GREEN LETTERING	4

- NOTES:
1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH A MEANS OF EMERGENCY POWER SUCH AS A BATTERY PACK, INVERTER OR GENERATOR CAPABLE OF PROVIDING 90 MIN. OF EGRESS ILLUMINATION. WHERE A GENERATOR PROVIDES EMERGENCY POWER, A GENERATOR TRANSFER DEVICE OR SIMILAR DEVICE SHALL BE PROVIDED TO ENSURE LIGHT IS TURNED ON DURING AN EMERGENCY OCCURRENCE.
 2. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL. AFTER THE PROJECT HAS BEEN BID AND AWARDED, ANY CREDITS FOR ME SHALL INCLUDE TIME TO COMPENSATE OUR OFFICE FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADS AND/OR ENERGY CODE COMPLIANCE. NO ME SUBMITTALS WILL BE APPROVED WITHOUT THE PROCESS IN PLACE. ME SUBMITTALS SHALL INCLUDE PHOTOGRAPHIC ANALYSIS TO ENSURE LIGHT FIXTURES PROVIDE COMPARABLE LIGHT LEVELS TO THOSE ORIGINALLY DESIGNED.
 3. MANUFACTURER SHALL PROVIDE BSIMAC SUPPORT WITH FIXTURES OVER 20 LBS.
 4. FIXTURES LISTED IN THE FIXTURE SCHEDULE HAVE BEEN PROVIDED AS THE BASIS OF DESIGN. FIXTURES ARE TO BE PROVIDED THAT MEET OR EXCEED SPECIFICATIONS. FIXTURES THAT DO NOT COMPLY WILL BE REJECTED AT SUBMITTAL.
 5. FIXTURE SHALL BE PROVIDED AS SPECIFIED. CONTACT MANUFACTURERS SHOP FOR CONTRACTOR ALLOWANCE PRICING.
 6. FIXTURES TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL CONNECTORS, FASTENERS, AND WIRE TERMINATIONS FOR A COMPLETE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.

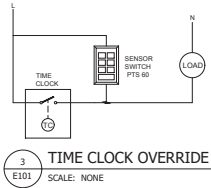


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RESTROOM LIGHT FIXTURE SCHEDULE								
TYPE	MANUFACTURER	CATALOG NO.	VOLTAGE	DELIVERED LUMENS / CCT	CONTROL	MOUNTING	LOAD/VA	DESCRIPTION
F1	MIL0 OR APPROVED EQUAL	FLDCK40-DE010-EMH4 FEUIC-1015C-S0-35 FLCDA-W2-H-48-B6	UNV	1500 LUMENS / 3000K	0-10V	RECESSED	17.5	8" LED DOWNLIGHT IC RATED VIBRAL RESISTANT
F1E	SAME AS F1 WITH EMERGENCY BATTERY BACKUP							
F2	RTX OR APPROVED EQUAL	WTN0505L30028K	120V	424 LUMENS / 3000K	0-10V	SURFACE	12	LED OUTDOOR WALL SCONCE
NOTES: 1. ALL LIGHT FIXTURES SHOWN HALF SHADED SHALL BE PROVIDED WITH A MEANS OF EMERGENCY POWER SUCH AS A BATTERY PACK, INVERTER OR GENERATOR CAPABLE OF PROVIDING 90 MIN. OF EGRESS ILLUMINATION. WHERE A GENERATOR PROVIDES EMERGENCY POWER, A GENERATOR TRANSFER DEVICE OR SIMILAR DEVICE SHALL BE PROVIDED TO ENSURE LIGHT IS TURNED ON DURING AN EMERGENCY OCCURRENCE. 2. ALL LIGHTING VALUE ENGINEERING PROVIDED FOR THIS PROJECT SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER FOR REVIEW AND APPROVAL AFTER THE PROJECT HAS BEEN BID AND AWARDED. ANY CREDITS FOR VE SHALL INCLUDE TIME TO COMPENSATE OUR OFFICE FOR ENGINEERING REVIEW AND VERIFICATION OF BRANCH CIRCUIT LOADING AND/OR ENERGY CODE COMPLIANCE. NO VE SUBMITTALS WILL BE APPROVED WITHOUT THIS PROCESS IN PLACE. VE SUBMITTALS SHALL INCLUDE PHOTO-METRIC ANALYSIS TO ENSURE NEW LIGHT FIXTURES PROVIDE COMPARABLE LIGHT LEVELS TO THOSE ORIGINALLY DESIGNED. 3. MANUFACTURER SHALL PROVIDE 50% SUPPORT WITH FIXTURES OVER 20 LBS. 4. FIXTURES LISTED IN THE FIXTURE SCHEDULE HAVE BEEN PROVIDED AS THE BASIS OF DESIGN. FIXTURES ARE TO BE PROVIDED THAT MEET OR EXCEED SPECIFICATIONS. FIXTURES THAT DO NOT COMPLY WILL BE REJECTED AT SUBMITTAL. 5. FIXTURE SHALL BE PROVIDED AS SPECIFIED. CONTACT MANUFACTURER'S REP FOR CONTRACTOR ALLOWANCE PRICING. 6. FIXTURES TO BE PURCHASED BY OWNER AND INSTALLED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE ALL CONNECTORS, FASTENERS, AND WIRE TERMINATIONS FOR A COMPLETE SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS.								



KEYED NOTES

1. COORDINATE DRINKING FOUNTAIN RECEPTACLE LOCATION WITH PLUMBING CONTRACTOR PRIOR TO POURING IN GFCI RECEPTACLE TO BE MOUNTED IN AN ACCESSIBLE LOCATION.

2. COORDINATE LOCATION AND HEIGHT OF HAND DRIVERS WITH OWNER. VERIFY POWER REQUIREMENTS WITH MANUFACTURER'S DOCUMENTATION.

3. PROVIDE A CEILING MOUNTED, TECH OCC. SENSOR WITH POWER PACK FOR RESTROOM LIGHT AND FAN CONTROL. VERIFY FAN VOLTAGE AND PROVIDE ADDITIONAL POWER PACK IF NECESSARY. (SENSOR SWITCH #3M POT OR EQUIVALENT).

4. PROVIDE A 2-CIRCUIT INTERMATIC TIME CLOCK ET282SC OR EQUAL.

5. PROVIDE A SENSOR SWITCH P15-60 OR EQUAL TIMED SWITCH FOR TIME CLOCK OVERRIDE. SEE WIRING DIAGRAM S1E101 FOR FURTHER DETAILS.

GENERAL NOTES

A. COORDINATE MOUNTING HEIGHTS OF ALL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND MILLWORK CONTRACTOR PRIOR TO BEGINNING.

B. VERIFY EXACT ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT WITH MANUFACTURER'S RECOMMENDATIONS PRIOR TO INSTALLATION OF EQUIPMENT.

C. CONNECT ALL EMERGENCY AND TEST LIGHT FIXTURES TO THE UNBATTERED SIDE OF THE LIGHTING BRANCH CIRCUIT. LIGHT FIXTURES WITH EMERGENCY DRIVERS SHALL BE NORMALLY SWITCHED WITH THE AREA LIGHTING, BUT HAVE THEIR EMERGENCY DRIVERS CONNECTED AHEAD OF THE LIGHT SWITCH OR LIGHTING CONTROL PANEL RELAY. FIXTURES WILL REMAIN ON FOR NOT LESS THAN 15 MINUTES IN CASE OF POWER LOSS.

D. IT IS THE INTENT OF THE CONSTRUCTION DOCUMENTS THAT CONDUIT IS TO BE INSTALLED WITH WALLS AND ABOVE CEILING CONCEALED WHERE POSSIBLE.

E. PROVIDE FIXTURE DIMMING CONTROLS AND PROVIDE THE NECESSARY WIRING AND DEVICES REQUIRED FOR DIMMING OPERATION.

F. CONCEAL ALL FIXTURE DRIVERS IN ACCESSIBLE CEILING SPACE OUT OF DIRECT VIEW.

LTG CTRL

SEQUENCE OF OPERATION

LIGHTING AND CONTROLS ARE DESIGNED TO MEET IECC 2021.

TIME CLOCK WILL BE PROGRAMMED TO TURN LIGHTS ON AND OFF FOR HOURS OF OPERATION.

SENSOR SWITCH WILL ACT AS OVERRIDE TO TIME SCHEDULING.

OCCUPANCY SENSORS WILL CONTROL LIGHTING IN RESTROOMS, AND UTILITY ROOMS.

BUILDING FACADE AND LANDSCAPE LIGHTING SHALL BE PROGRAMMED TO SHUT OFF NOT LATER THAN 1 HOUR AFTER BUSINESS CLOSING TO NOT EARLIER THAN 1 HOUR BEFORE BUSINESS OPENING. (C405.2.7.2)

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1 RESTROOMS LIGHTING PLAN
E101 SCALE: 1/4" = 1'-0"

2 RESTROOMS POWER PLAN
E101 SCALE: 1/4" = 1'-0"

MAIN STREET COMMONS - RESTROOMS

2117 MCCULLOUGH BLVD NORTH
LAKE HAVASU CITY, AZ 86403

PROJECT NO. 24134
DATE: 19 JUNE 2025

REVISIONS

SHEET TITLE:
RESTROOMS
LIGHTING & POWER
PLANS
SHEET NUMBER:
E101

BID SET

ROCKY MOUNTAIN
CONSULTING ENGINEERS, INC.

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PANEL SCHEDULE				P1									
VOLTAGE/PHASE/RE: 120/240/3P/4W				A/C RATING:				A/C		MAIN BREAKER:			
VOLUME/CLOSURE: REC/SECCOMB 1				LOCATION:		RR BLDG MECH RM		MAIN LUGS		100A			
Q/C	Q/C	DESCRIPTION	LOAD	AMPS	PHASE	A	C	A	C	Q/C	Q/C	DESCRIPTION	Q/C
1	REC - WOMEN, MEN, KITCH	720	20	1	120V	1	30	2500	WATER HEATER CBMM 1	7			
3	HAND DRYER WOMEN	1000	25	1		1365	1	25	360	REC - EXT. DRYER	4		
5	WATER COOLER	400	20	1	90V	1	120	250	500 - LIT. - WESTBROOK	6			
7	HAND DRYER MEN	1000	25	1		1200	1	25	200	LIT. - EXTENSION	8		
9	LIT. TIME CLOCK	500	20	1	500	0			0	SHADE	10		
11	SHADE	0							0	SHADE	12		
TOTALS:						4,520		2,950					
TOTAL LOAD:				2,950									
LOADS				CONTINUOUS		NON-CONTINUOUS		DEMAND FACTOR/CALCULATION		DEMAND LOAD			
EXISTING				120V		0		0		0			
LOADING				700	300	120V x 700	+ 100V x 350			1,225			
RECEPTACLE				700	280	120V x 700	+ 100V x 280			720			
MOTOR				0	0	120V x 0	+ 100V x 0			0			
FIXED HEAT				0	0	100V x 0	+ 0			0			
KITCHEN				0	0	100V x 0	+ 0			0			
LIFTING EQUIP.				0	0	100V x 0	+ 0			0			
MISC.				5,400	120V x 1	+ 100V x 5400			5,400				
								TOTAL DEMAND LOAD:		7,350 WVA			
										31 A			

PANEL NOTES:

OVERCURRENT PROTECTIVE DEVICES SHALL HAVE SAME A/C RATING AS PANEL THEY ARE LOCATED IN.

HARDWARE TYPES - CONCESSION

HARDWARE TYPE 1: EXTERIOR: HOLLOW METAL DOOR + HOLLOW METAL FRAME

1 CONTINUOUS HINGE	CFM-HEIGHT OF DOOR-HD	CLEAR ALUMINUM	PEMKO	1.	CI
1 LOCK SET	ALX SERIES GRADE 2 75 LINE	ALUMINUM	SCHLAGE MARKS USA GRADE 2	2.	AL
1 DEADLATCH DEADBOLT	44CI 40DBB SERIES	ALUMINUM	INTERNATIONAL	3.	AL
1 STRIKE	DEADBOLT COMPATIBLE KICK 10" X DOOR WIDTH 1	ALUMINUM	SPECIALIZED BUILDERS HARDWARE INTERNATIONAL	4.	M
1 CLOSER	MLP21155 44CI-HO	STAINLESS STEEL ALUMINUM	DON JO INTERNATIONAL	5.	EX
1 8" THRESHOLD	2748-SADDLE-WIDTH OF DOOR	CLEAR ALUMINUM	PEMKO	6.	DI
1 KICKPLATE	344C WIDTH OF DOOR KA050	CLEAR ALUMINUM	PEMKO TRIMCO	7.	EX
1 SWEEP STRIP	BY DOOR MANUFACTURER				
1 WEATHER STRIP	BY DOOR MANUFACTURER				

HARDWARE TYPE 2: EXTERIOR: HOLLOW METAL DOOR + HOLLOW METAL FRAME

2 CONTINUOUS HINGE	CFM-HEIGHT OF DOOR-HD	CLEAR ALUMINUM	PEMKO	1.	CI
2 PUSH/PULL LOCKSET	8701 75 LINE	CLEAR ALUMINUM	ADAMS RITE MARKS USA GRADE 2	2.	AL
1 FLUSH BOLT DEADBOLT	FB-2200 40DBB SERIES	ALUMINUM	INTERNATIONAL	3.	AL
2 CLOSER	MLP21155	STAINLESS STEEL ALUMINUM	DON JO INTERNATIONAL	4.	M
2 8" THRESHOLD	2748-SADDLE-WIDTH OF DOOR	CLEAR ALUMINUM	PEMKO	5.	EX
2 KICKPLATE	344C WIDTH OF DOOR KA050	CLEAR ALUMINUM	PEMKO TRIMCO	6.	DI
2 SWEEP STRIP	BY DOOR MANUFACTURER			7.	EX
2 WEATHER STRIP	BY DOOR MANUFACTURER				
1 ASTRAGAL	355_S	CLEAR ALUMINUM	PEMKO		

HARDWARE TYPE 3: ALUMINUM ROLL UP DOOR ALUMINUM FRAME (CONCESSION WINDOW)

- 1 SOLID SURFACE SILL - WEATHERSTRIP A BOTTOM
- 1 PAIR GUIDES
- 1 MOTOR OPERATED W/. BACK-UP HAND CRANK
- 1 CYLINDER LOCK
- 1 ALUMINUM HOOD

SCHEDULED WALL - CMU

DOO

1. CI

2. AL

3. AL

4. M

5. EX

KNOWLEC

6. DI

HARDWAF

TWISTING

7. EX

HARDWAF

HARDWARE TYPES - RESTROOM

HARDWARE TYPE 1: EXTERIOR: HOLLOW METAL DOOR + HOLLOW METAL FRAME

1 CONTINUOUS HINGE	CFM-HEIGHT OF DOOR-HD	CLEAR ALUMINUM	PEMKO
1 PUSH/PULL	8701 1001-9 / 1017-3	CLEAR ALUMINUM	ADAMS RITE TRIMCO
1 DEADLATCH DEADBOLT	44CI 40DBB SERIES	ALUMINUM	INTERNATIONAL
1 STRIKE DEADBOLT COMPATIBLE	KICK 10" X DOOR WIDTH	ALUMINUM	SPECIALIZED BUILDERS HARDWARE INTERNATIONAL
1 CLOSER WITH HOLD OPEN	44CI-HO	ALUMINUM	INTERNATIONAL
1 KICKPLATE	3 1/2" X 25" KA050	CLEAR ALUMINUM	PEMKO TRIMCO
1 SWEEP STRIP	BY DOOR MANUFACTURER		
1 WEATHER STRIP	BY DOOR MANUFACTURER		
1 DOOR STOP	DH25	VINYL RUBBER	CAL-ROYAL

HARDWARE TYPE 2:

1 CONTINUOUS HINGE	CFM-HEIGHT OF DOOR-HD	CLEAR ALUMINUM	PEMKO
1 SMALL FORMAT STOREROOM LEVERSET	5F-175RB-7 PIN 75 LINE	626	MARKS USA GRADE 2
1 DEADLATCH DEADBOLT	44CI 40DBB SERIES	ALUMINUM	INTERNATIONAL
1 CLOSER WITH HOLD OPEN	44CI-HO	ALUMINUM	INTERNATIONAL
1 KICKPLATE	KICK 10" X 25" KA050	ALUMINUM	SPECIALIZED BUILDERS HARDWARE TRIMCO
1 DOOR STOP	D8LP4 DH25	US26D VINYL RUBBER	CAL-ROYAL
1 SWEEP STRIP	BY DOOR MANUFACTURER		
1 WEATHER STRIP	BY DOOR MANUFACTURER		

HARDWARE TYPE 3:

1 CONTINUOUS HINGE	CFM-HEIGHT OF DOOR-HD	CLEAR ALUMINUM	PEMKO
1 PRIVACY LEVERSET	5F-175RB-7 PIN 195L	626	MARKS USA GRADE 2
1 DEADLATCH DEADBOLT	44CI 40DBB SERIES	ALUMINUM	INTERNATIONAL
1 CLOSER WITH HOLD OPEN	44CI-HO	ALUMINUM	INTERNATIONAL
1 KICKPLATE	44CI KA050	ALUMINUM	INTERNATIONAL TRIMCO
1 DOOR STOP	D8LP4 DH25	US26D VINYL RUBBER	CAL-ROYAL
1 SWEEP STRIP	BY DOOR MANUFACTURER		
1 WEATHER STRIP	BY DOOR MANUFACTURER		

FRAME TYPES

DOOR TYPES



Main Street Commons. Bathrooms & Concessions Project
Non-Mandatory Pre-Bid Meeting Agenda
Thursday, July 24, 2025 @ 11:00 am

Name	Organization	Phone Number	Email Address
JASON HART	LAKE HAVASU CITY	920-854-0789	hartj@lhca7.gov
BOB BURDEN	HUNTER CONTRACTING	602-689-9859	BOB.BURDEN@HUNTERCONTRACTING.COM
Brandon Goshaw	Diamond Ridge Dev	623-412-8809	bgoshaw@diamondridge.biz
Amanda Wood	Floor Coverings Int.	(928) 377-0209	amanda.wood@fcifloors.com
Brianna Garner	Floor Coverings Int.	(928) 530-3800	Brianna.garner@fcifloors.com
Brandon Torres	San Nicholas Electric	856-912-7565	brandon.t@sanichelselectrical.com
Stacy Scott	Concord General	480-272-5289	sscott@concordinc.com
Matthew Mansell	Mansell Welding	928-855-6743	mansell@mansellwelding.com
Enrique Enrriquez	Mansell Welding	928-855-6743	mansell@mansellwelding.com
Tommy Winas	Precise Builders	928-788-5467	TWinas@PreciseBuilders.com
Michael Merrill	Merrill Development	428-341-0185	mike.m@merrilldevelopment.com
James Candlish	2nd to none construction	760 810 1663	2ndtononeconstructionllc@gmail
Josh Reeves	Seasand Parks Const	661-444-7269	Josh@seasandparks.com
Frederick Pickering	TR-ARR Inc	480-647-9205	Frederick@TR-ARR.COM
Justin Runnels	Taz Concrete	928-490-1402	Justin@tazconcrete.com