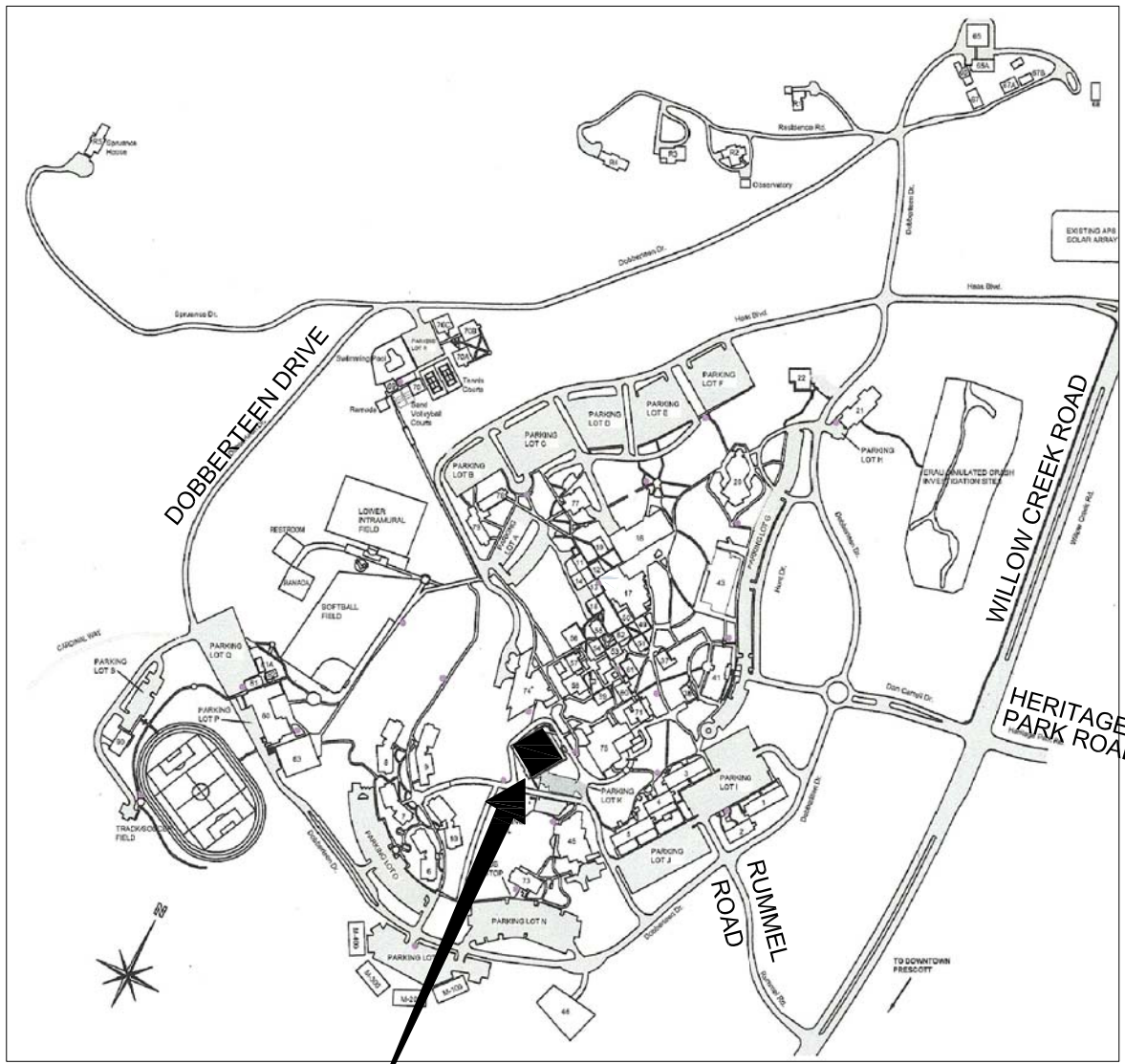


Project Description

Embry-Riddle Aeronautical University intends to renovate room 127 in building 72. Existing furniture will be removed along with associated electrical wiring / low voltage. New electrical and low voltage will be provided to accommodate the new classroom furniture layout. The HVAC system will be unchanged as it is adequate for the new classroom usage. The ceiling, light fixtures etc., will remain with minor repairs due to removal of power poles.

Site / Vicinity Map



Graphic Standards

	NORTH ARROW INDICATOR		ELEVATION DESIGNATOR
	DETAIL DESIGNATOR		DESRIPTIVE NOTE DESIGNATOR
	BUILDING SECTION DESIGNATOR		ROOM NUMBER / FINISH DESIGNATOR
	REVISION DESIGNATOR		DOOR NUMBER DESIGNATOR
	TYPICALLY INDICATES EXISTING DOOR & FRAME TO BE REMOVED		DOOR TYPE DESIGNATOR
	TYPICALLY INDICATES EXISTING DOOR & FRAME TO REMAIN		WINDOW TYPE DESIGNATOR
			GRID LINE DESIGNATOR

IMPROVEMENTS FOR EMBRY-RIDDLE BUILDING 72 ROOM 127 REMODEL

Project Information

OWNER:	Embry-Riddle Aeronautical University 3700 Willow Creek Road Prescott, AZ 86301	PH: 928-777-6600 FAX: 928-777-3950 CONTACT: Carl Beumer beumerc@erau.edu
PREPARED BY:	W. Alan Kenson & Associates, P.C. P.O. Box 11593 Prescott, AZ 86304	PH: 928-443-5812 FAX: 928-443-5815 CONTACT: Alan Kenson waka@cableone.net
CONTRACTOR:	TO BE DETERMINED	
SCOPE OF WORK:	Classroom Renovation	
PROJECT ADDRESS:	3700 Willow Creek Road (Building 69) Prescott, AZ 86301 (APN: 106-03-004)	
ZONE:	BG - PAD	
OCCUPANCY:	B (Educational Facility for students above the 12th grade) , Non-Separated	
CONSTRUCTION TYPE:	V-B Sprinklered	
ACTUAL AREA	Existing Building 72: ±20,065 S.F. BUILDING 72 ROOM 127 : Remodel Area: 1,037 S.F.	

Sheet Index

ARCHITECTURAL	
CS1	Cover Sheet
CS2	Occupancy / Egress / Code Summary
A0.0	Construction Access Plan
A1.0	Demolition Plan, Reference / Furniture Floor Plan and Low Voltage Plan
A2.0	Specifications
ELECTRICAL	
E1.1	Electrical Symbols, Panel Schedules, Specifications and Notes
E1.2	Power Design and Demo Floor Plan with Notes

Key Plan



Architect:

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ARCHITECTURE & PLANNING

REVISIONS

BY

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ARCHITECTURE & PLANNING

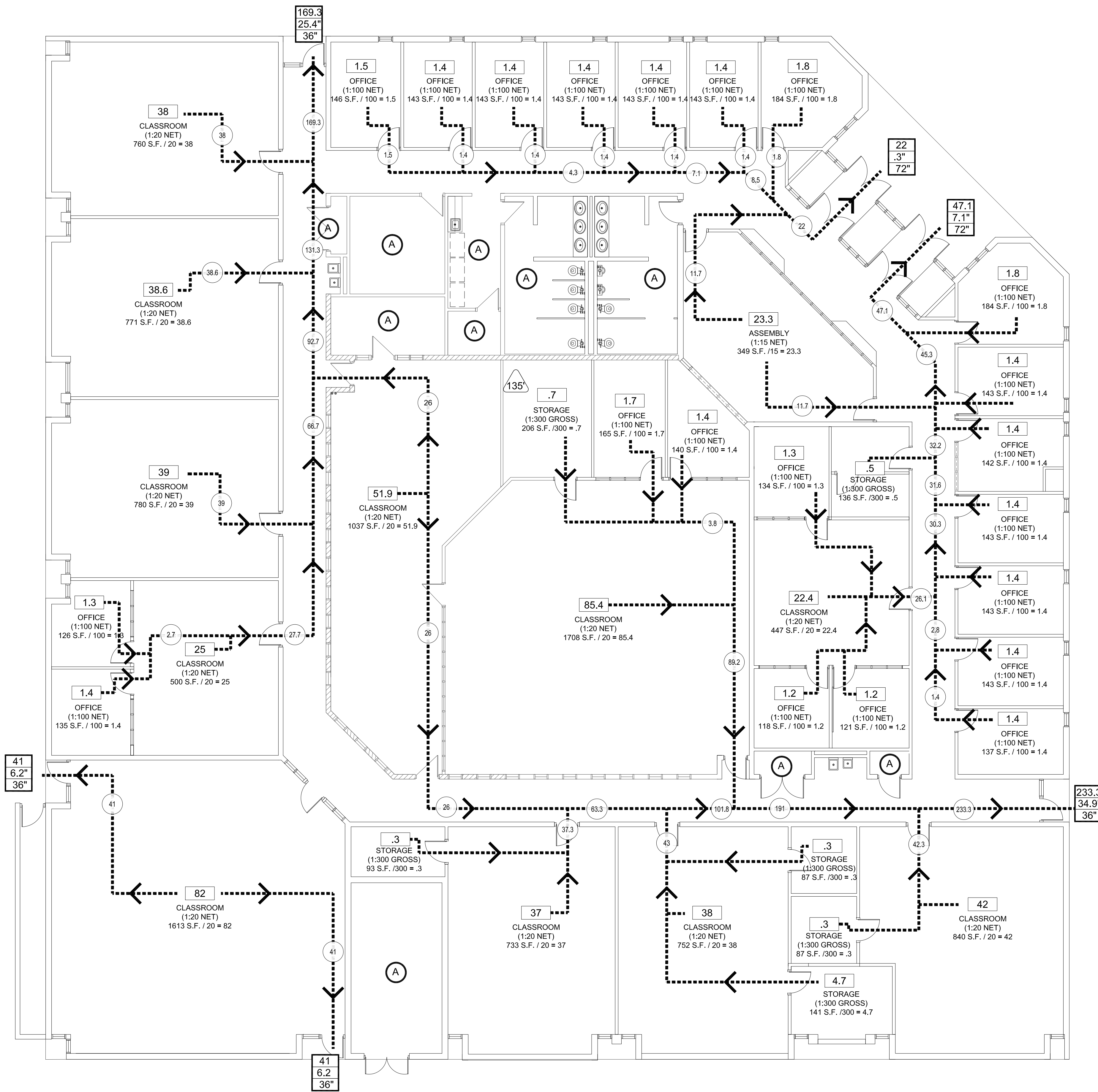
DRAWING: Cover Sheet

PROJECT: ERAU Building 72, Room 127 Remodel
3700 Willow Creek Road
Prescott, AZ 86301

APN: 106-03-004

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE March 15th, 2017
JOB NO. 694
SHEET

CS1

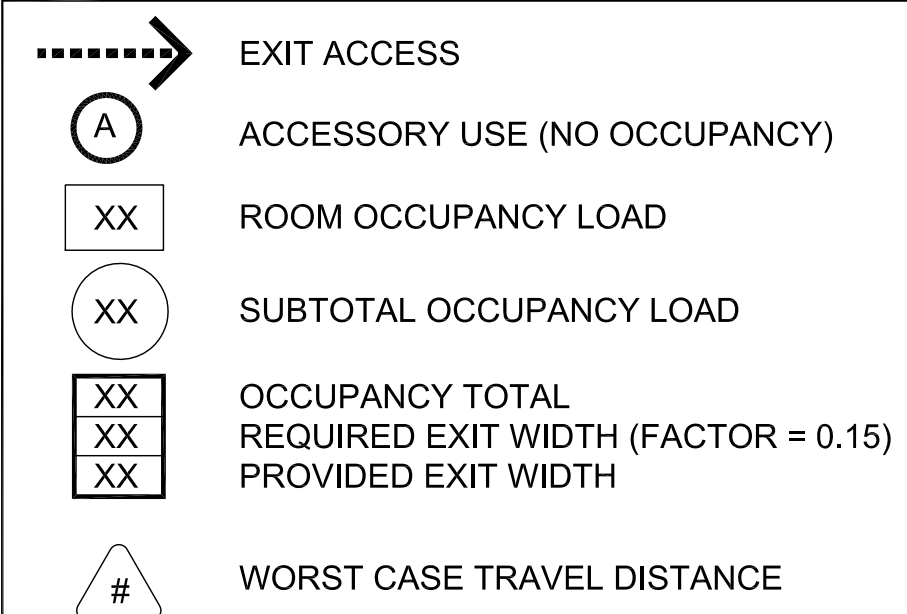


Occupancy / Egress / Overall Floor Plan

Scale: 1/8"=1'-0"



Egress Legend:



<u>FUNCTION OF SPACE</u>	<u>OCCUPANT LOAD FACTOR</u>
ASSEMBLY	15 NET
OFFICE	100 GROSS
STORAGE	300 GROSS
CLASSROOM	20 NET

Occupant load

NOTES:

- GROSS SQUARE FOOTAGE LISTED BELOW DOES NOT INCLUDE ACCESSORY AREAS.
- BUILDING IS EXISTING WITH NO CHANGES TO OCCUPANCY.

ASSEMBLY :	349 SQ. FT.	23.3	OCCUPANTS
BUSINESS :	3,019 SQ. FT.	31.3	OCCUPANTS
STORAGE :	750 SQ. FT.	2.57	OCCUPANTS
CLASSROOM:	9,941 SQ. FT.	499.3	OCCUPANTS
TOTAL :	13,612 SQ. FT.	556.47	OCCUPANTS

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TECTURE & PLANT

ARCHITECTURE & PLANNING

DRAWING: Occupancy / Egress / Code Summary

PROJECT: ERAU Building 72, Room 127 Remodel
3700 Willow Creek Road
Prescott, AZ 86301

APN: 106-03-004

DRAWN BY

L.O.

CHECKED BY
WAK

DATE
March 15th, 2017

JOB NO.
694

094
SHEET

CS2

Mar 14, 2017 - 1:39am

A1 Construction Access Plan

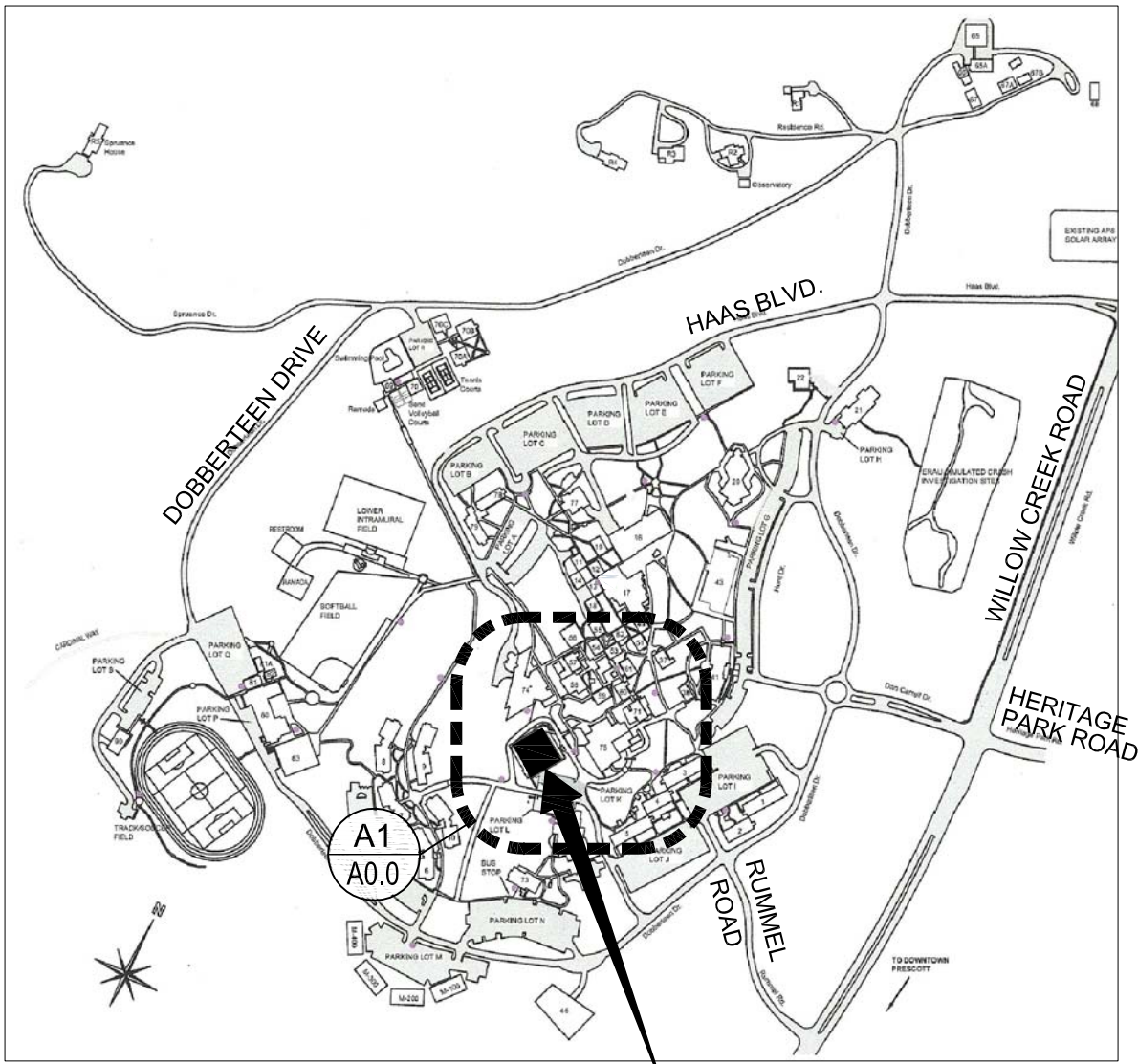


Scale: 1"=20'-0"



Descriptive Keynotes

1. LOCATION FOR J-JON.
2. LOCATION OF 6 YARD TRASH DUMPSTER PROVIDED BY OWNER.
3. CONTRACTOR PARKING AREA. 10 SPACES AVAILABLE. CONTRACTOR TO PROVIDE SIGNAGE DESIGNATING SPACES FOR CONSTRUCTION PARKING.
4. CONSTRUCTION ACCESS POINT.



PROJECT
BUILDING 72

B1 Vicinity Map

Scale: N.T.S.



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ARCHITECTURE & PLANNING

DRAWING: Construction Access Plan

PROJECT: ERAU Building 72, Room 127 Remodel
3700 Willow Creek Road
Prescott, AZ 86301

APN: 106-03-004

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CHECKED BY W.A.K.
DATE March 15th, 2017
JOB NO. 694
SHEET

A0.0

Mar 15, 2017 - 11:15am

A1 Demolition Plan

Scale: 1/4"=1'-0"



B1 Reference/Furniture Floor Plan

Scale: 1/4"=1'-0"



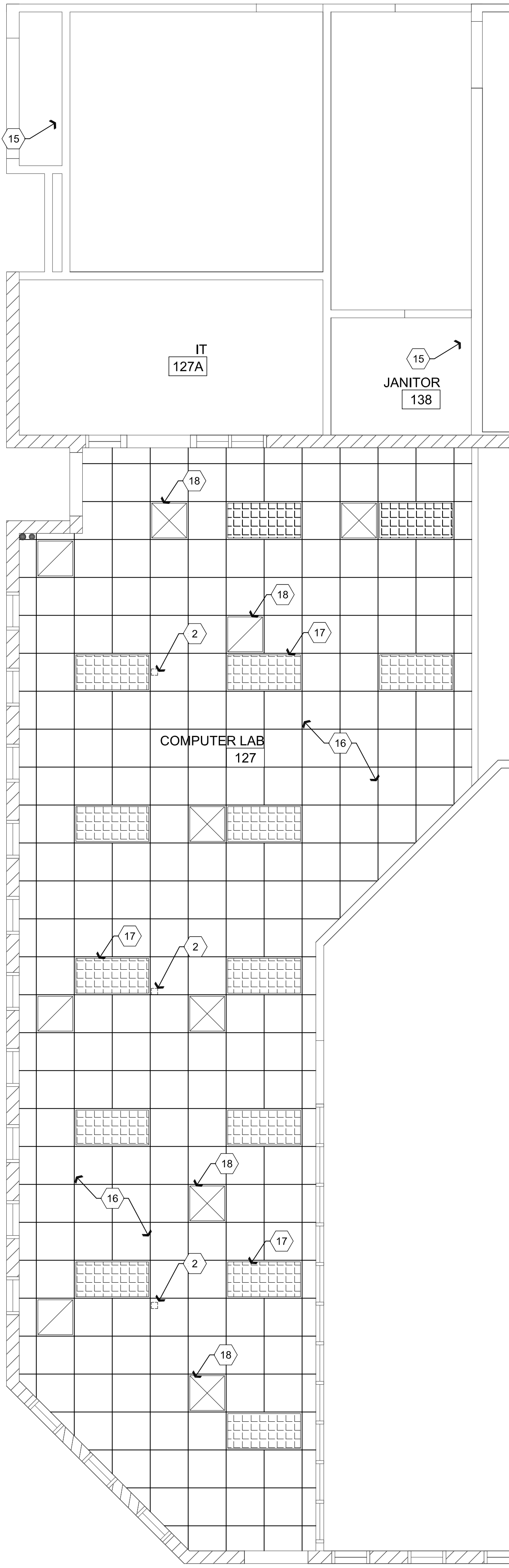
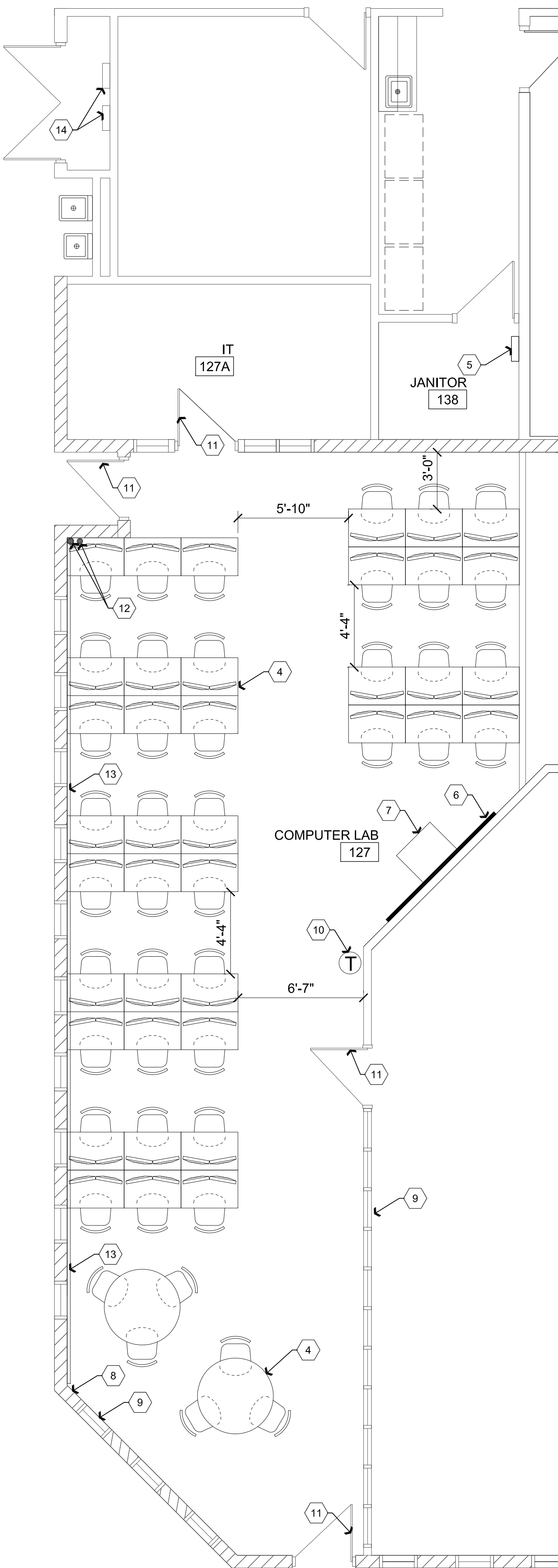
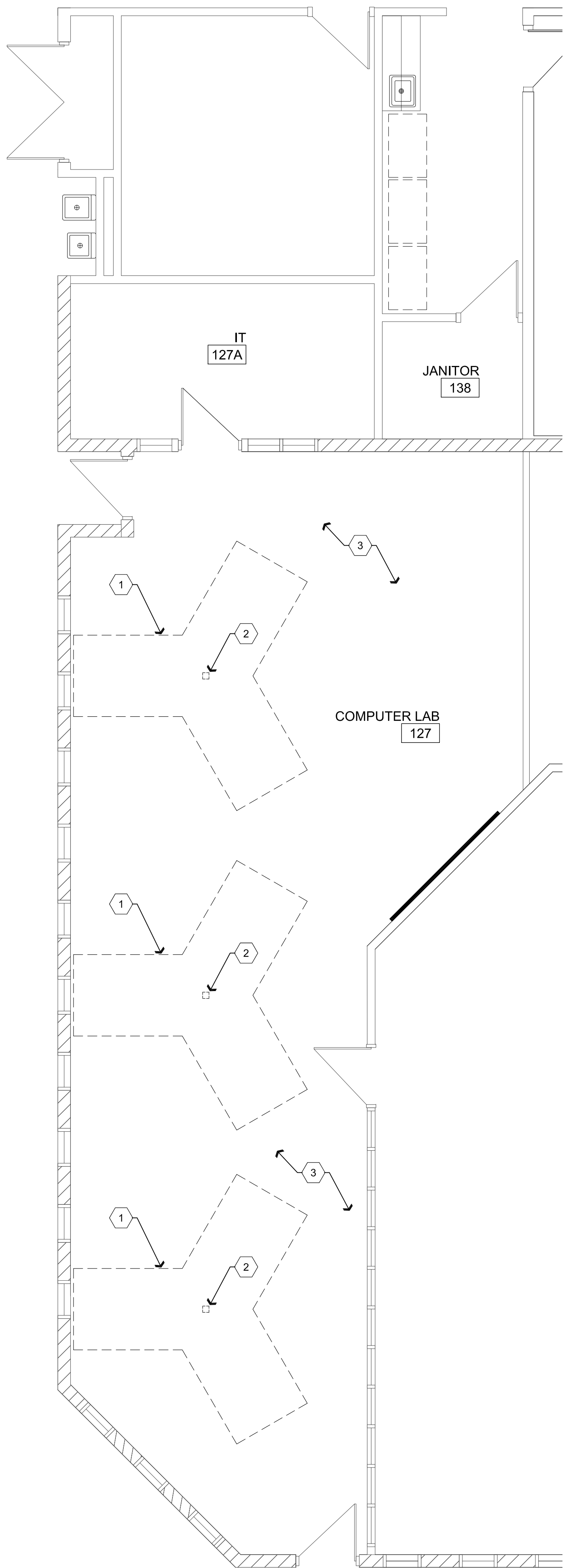
C1 Reflected Ceiling Plan

Scale: 1/4"=1'-0"



D1 Room Finish Plan

Scale: 1/8"=1'-0"



Descriptive Keynotes

1. REMOVE FURNITURE AND RETURN TO ERAU, TYPICAL.
2. REMOVE EXISTING ELECTRIC / DATA WIRING AND POWER POLES. REPLACE CEILING TILES TO MATCH EXISTING WHERE POLES WERE REMOVED.
3. REMOVE EXISTING CARPET FLOOR COVERING AND RUBBER BASE.
4. FURNITURE SHOWN FOR REFERENCE ONLY AND PROVIDED BY ERAU.
5. PROVIDE ELECTRIC PANEL, REFER TO ELECTRICAL PLANS.
6. EXISTING WHITEBOARD TO REMAIN.
7. PRINTER, PROVIDED BY OWNER.
8. EXISTING WALL, TYPICAL.
9. EXISTING WINDOW, TYPICAL.
10. EXISTING THERMOSTAT.
11. EXISTING DOOR, TYPICAL.
12. PROVIDE PAINTED ELECTRICAL AND LOW VOLTAGE CONDUIT RISERS, REFER TO ELECTRICAL PLAN.
13. PROVIDE ELECTRICAL / LOW VOLTAGE WIREMOLD.
14. EXISTING ELECTRICAL PANEL, REFER TO ELECTRICAL PLANS.
15. REPAIR / PAINT GPDW CEILING WHERE REQUIRED FOR ELECTRICAL PANEL INSTALLATION.
16. EXISTING SUSPENDED CEILING TO REMAIN, TYPICAL.
17. EXISTING LIGHT FIXTURES TO REMAIN, TYPICAL.
18. EXISTING HVAC DIFFUSERS TO REMAIN, TYPICAL.

Legend

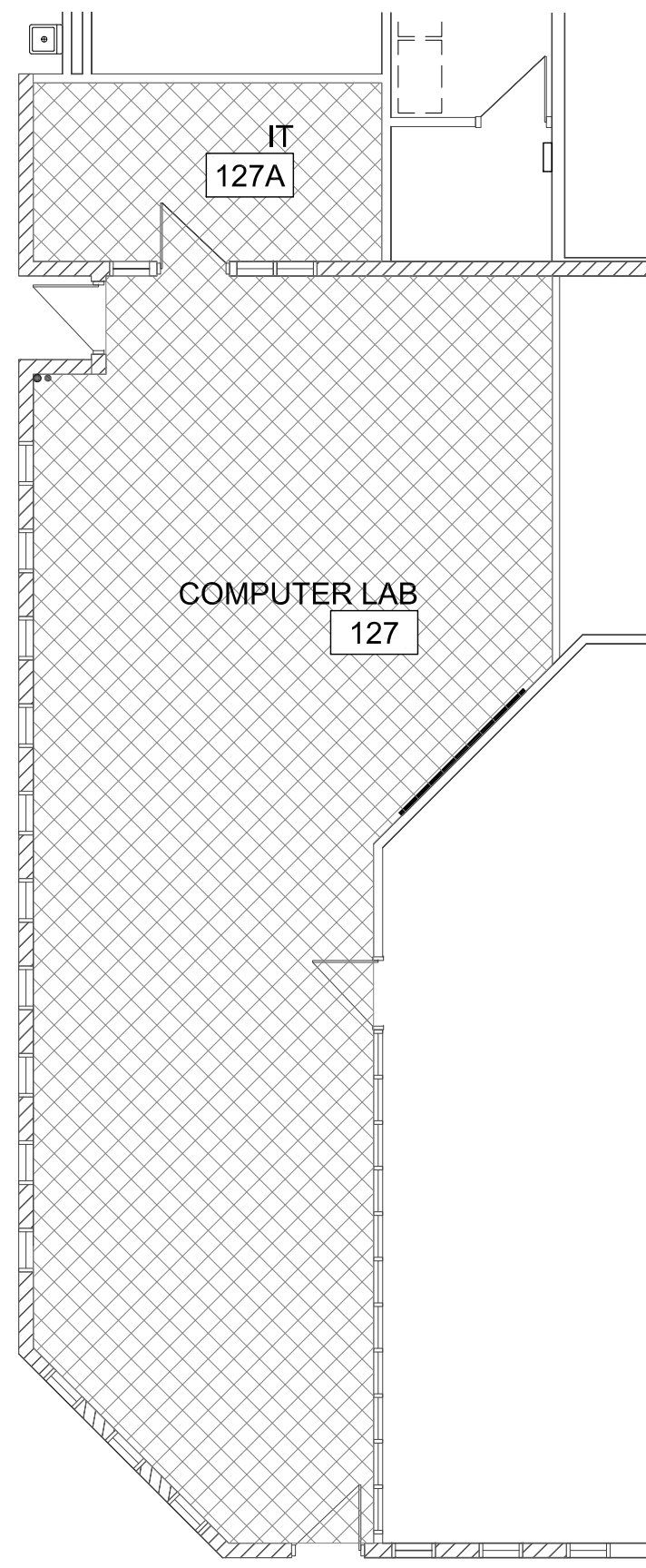


CARPET WITH BLACK RUBBER BASE

CARPET: TANDUS, CRAYON, POWERBOND CUSHION, PRECIOUS METAL #48010 (MATERIAL IS TO BE PROVIDED BY OWNER)

4" RUBBER BASE: FLEXCO, BLACK DAHLIA #WF01

NOTE: TANDUS FLOORING IS TO BE INSTALLED BY APPROVED INSTALLER



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DRAWING: Demolition Plan, Reference / Furniture Floor Plan and Low Voltage Plan

PROJECT: ERAU Building 72, Room 127 Remodel
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SHEET

A1.0

00 - PROCUREMENT AND CONTRACTING REQUIREMENTS
00 70 00 - GENERAL CONDITIONS

General Conditions of the Contract for Construction, AIA Document A201, 2007 Edition, is made a part of the Construction Documents by reference. A copy of the referenced document is available for inspection at the office of the Architect.

01 - GENERAL REQUIREMENTS
01 30 00 - ADMINISTRATIVE REQUIREMENTS

Shop Drawings Two (2) paper copies of Shop Drawings and/or Catalog Cut Sheets and one (1) electronic file are to be submitted to the Architect for review and approval. The Architect will review the shop drawings and affix a stamp to the electronic file and paper copy, indicating the findings of the review and return to the Contractor. The Contractor shall correct and resubmit as necessary. Required for all products and samples and materials to be included in the project.

Meetings Contractor shall hold construction progress meetings at jobsite every week. Representatives from owner, architect, contractor, and any relative subcontractor or suppliers shall attend. Contractor shall take minutes of the meetings and distribute to all attendees.

Portable Toilet Facility Contractor to maintain portable toilet facility throughout construction period.

Dumpster Owner to provide dumpster throughout construction period.

Samples Three (3) samples of each color or style of the products to be submitted to the Architect.

01 50 00 - TEMPORARY FACILITIES AND CONTROLS

Designated Areas Owner shall provide designated areas for the contractor's employee parking, material storage and staging. Contractor shall control his employees, sub-contractors and material suppliers from parking in un-designated areas.

Protection Contractor shall take all necessary precautionary measures to protect their work and ensure the safety of workmen, public and property. Neither the Owner nor Architect shall have any responsibility or control of construction means, methods, techniques, sequences or procedures affecting job-site safety, or for safety precautions and programs. contractor shall legally defend and hold harmless the Owner and Architect from all such claims.

Contractor's Responsibility The Contractor shall supervise and direct the work, and be solely responsible for and have control over all methods, techniques and procedures necessary for the proper execution of the work. Where the work of this agreement affects owner's utilities, fire alarm, fire suppression or controls systems, the contractor shall give the owner a minimum of 24 hours advance notice.

The Contractor shall be responsible to the owner for the acts and omissions of the Contractor's employees, agents, sub-contractors, and their agents, employees, and other persons performing portions of the work under a contract with the Contractor to the fullest extent permitted by law.

The Contractor shall indemnify and hold harmless the Owner, the Owner's consultants, agents and employees of any of them from and against claims, damages, losses and expenses including but not limited to attorney's fees arising out of or resulting from performance of the work, provided that such claim damages, loss or expense is attributable to bodily injury, sickness, disease or death, or to injury or destruction of tangible property other than the work itself, including loss of use resulting therefrom, but only to the extent caused in whole or in part by negligent acts or omissions of the contractor, a sub-contractor, anyone directly or indirectly employed by them or anyone for whose acts they may be liable regardless of whether or not such damage, claim, loss or expense is caused in part by a party indemnified hereunder. Such obligation shall not be construed to negate, abridge or reduce other rights or obligations of indemnity which would otherwise exist as to a party or person described in this paragraph.

Material The Contractor warrants that unless otherwise specified, all materials and equipment shall be new, free from defects, suitable for the intended purpose, and in conformance with laws in effect on the date of this agreement.

01 70 00 - EXECUTION REQUIREMENTS

General Contractor shall field verify all existing conditions and lay out all of the work prior to starting construction on any part of the work. As a minimum contractor shall verify:

- all dimensions, both horizontal and vertical
- Utility locations, buried and overhead
- existing conditions affecting this project

Conflicts If Contractor discovers an existing condition which differs from that shown (or is not shown), Contractor shall immediately notify the Architect.

Cutting and Demolition

In all cases, exercise extreme care in cutting operations and perform such operations under adequate supervision by competent mechanics skilled in the applicable trade. Openings shall be neatly cut and shall be kept as small as possible to avoid unnecessary damage, careless and/or avoidable cutting damage, etc. will not be tolerated and the contractor will be held responsible for such avoidable or willful damage.

Patching and Refinishing

All replacing, patching and repairing of materials and surfaces cut or damaged in the execution of the work shall be performed by experienced mechanics of the specific trades involved. Such repairing and/or patching shall be done with the applicable materials in a manner that all surfaces so replaced, etc. will, upon completion of the work, match the surrounding similar surfaces.

Locations

Walls - paint all affected walls, interior and exterior from corner to corner. (e.g. if you install a door in an existing frame, you need only to paint the door and frame, but if you install a door and frame, paint the entire wall to match existing) Gypsum wall board ceilings - Paint the entire ceiling of the room affected. (e.g. if anything is installed in/on/through the ceiling of a room, paint the ceiling of that room) Roofs - Replace portion of roof covering as required to flash new assembly. If roof warranty is still in effect, Contractor issuing warranty shall perform the required work. All patching and refinishing will be performed in a manner such that at the completion of the work, it shall not be obvious where an item was removed from, or added to.

Disposal

Remove all materials noted on the drawings and all miscellaneous materials which will be rendered useless with removal of the item noted. Unless specifically noted otherwise, materials shall become the property of the contractor and shall be removed from the site in a legal and safe manner. Patch and repair all adjacent surfaces such that at the completion of the work, it shall not be obvious where an item was removed from or added to. Final appearance shall be totally acceptable to the owner.

Contractor shall provide and maintain his own trash receptacles, unless specifically directed otherwise. All surplus materials become the property of the contractor. Remove all trash, rubbish and surplus materials from the site and dispose of in a legal and safe manner.

As-Built

Contractor shall maintain a clean set of drawings at the job site that is specifically set aside for recording:

- all differences between the work as shown on the drawings and the work installed.
- All work added or deleted during the course of construction
- Exact measurements of all buried and/or concealed work (e.g. conduit below slab, conduit and data cable below raised platforms, conduit in walls etc.)

All recordings shall be neat and legible. Stamp this set of drawings 'As-Built drawings' and list as a minimum, the name, address and telephone number of the General Contractor and all major sub-contractors. (e.g. electrical, HVAC, etc.) At the completion of the project as prerequisite for final payment, Contractor shall turn these as-builts over to the owner.

Final Cleaning

After the construction of each phase and before occupancy, thoroughly clean the space by dusting the sills, washing windows, vacuuming the carpet and replace all HVAC filters. Clean site areas of any refuse created in the scope of work.

09 68 00 - CARPET

General

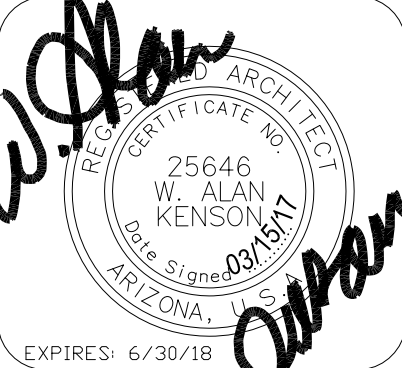
Refer to materials & finish schedule and floor finish plan for layout.

Preparation of Surfaces

Inspect surfaces to receive carpet, make tests recommended by manufacturer, take corrective action deemed necessary or notify owner in writing of any condition which could be detrimental to carpet installation. Remove all foreign and incompatible materials and vacuum clean surfaces immediately prior to installation of carpet. Fill cracks, construction joints and other surface imperfections with latex underlayment compound troweled level with adjacent surface. Commencement of work constitutes acceptance of surfaces and responsibility for them.

REVISIONS	BY

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ARCHITECTURE & PLANNING

REGISTERED ARCHITECT

NO. 25646

W. ALAN KENSON

STATE OF ARIZONA

EXPIRES: 6/30/18

DRAWING: Specifications

PROJECT: ERAU Building 72, Room 127 Remodel
3700 Willow Creek Road
Prescott, AZ 86301

APN: 106-03-004

DRAWN BY L.O.
CHECKED BY W.A.K.
DATE March 15th, 2017
JOB NO. 694
SHEET

ELECTRICAL SYMBOLS

NOTE: NOT ALL SYMBOLS ARE USED ON THIS PROJECT

- FLUORESCENT FIXTURE, WITH FIXTURE DESIGNATED BY LETTER. SMALL LETTER INDICATES SWITCH LEG
- NIGHT LIGHT- NOT SWITCHED OR EMERGENCY
- FLUORESCENT STRIP FIXTURE.
- CEILING OR WALLMOUNTED FIXTURE.
- PORCELAIN PULL CHAIN FIXTURE
- JUNCTION BOX
- JUNCTION BOX WITH FLEX CONNECTION.
- SINGLE FACE EXIT SIGN- NOT SWITCHED
- DOUBLE FACED EXIT SIGN- NOT SWITCHED.
- TWO HEAD EMERGENCY LIGHT WITH BATTERY.
- S SINGLE POLE SWITCH, + 48" A.F.F. (20A-120/277V)
- S₃ THREE WAY SWITCH, + 48" A.F.F. (20A-120/277V)
- S₄ 4-WAY SWITCH +48" AFF (20A-120/277V)
- S_P SWITCH AND PILOT LIGHT (20A-120-/277V)
- S_K SINGLE POLE SWITCH, KEY OPERATED (20A)
- WALL OR CEILING MOUNTED MOTION SENSOR MANUFACTURE BY LAWTON
- DIMMER CONTROL, + 48" A.F.F. TYPE, RATING AS NOTED
- DUPLEX RECEPTACLE, + 18" A.F.F. (20A)
- DUPLEX RECEPTACLE ABOVE COUNTER, VERIFY HEIGHT. (20A)
- FOURPLEX RECEPTACLE, + 18" A.F.F. (20A)
- HALF SWITCHED DUPLEX RECEPTACLE (20A)
- SPECIAL RECEPTACLE - SIZE & TYPE AS NOTED
- POWER / PHONE / DATA FLUSH FLOOR OUTLET
- TELEPHONE OUTLET PLASTER RING AT + 18" A.F.F. HUBBELL #P12 COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- DATA SYSTEM OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- TELE/DATA COMBO OUTLET, 4" SQUARE BOX AND COVERPLATE, 3/4" C. TO CEILING SPACE UNLESS SHOWN WITH HOMERUN, + 18" A.F.F.
- CABLE TELEVISION (CATV) OUTLET PLASTER RING AT + 18" A.F.F. U.N.O. HUBBELL COVERPLATE. 3/4"C TO CEILING SPACE UNLESS SHOWN WITH HOMERUNS.
- TELEPHONE SYSTEM CONDUIT HOMERUN WITH NYLON PULLWIRE (1"C MIN UNO)
- CLOSED CIRCUIT TV (CCTV) OUTLET SAME AS CATV OUTLET
- REMOTE CONTROL STATION +48" AFF
- DISCONNECT SWITCH, FUSE PER EQUIPMENT MANUFACTURERS RECOMMENDATION. OUTSIDE NEMA 3R - N.F. = NON-FUSED.
- COMBINATION STARTER AND FUSIBLE DISCONNECT SWITCH SIZE AS NOTED
- EQUIPMENT TERMINATION CONNECTION POINT VERIFY EXACT LOCATION LOAD AND VOLTAGE AS NOTED
- MOTOR
- SM THERMAL PROTECTED SWITCH
- MOTOR STARTER - SHADING INDICATES F.B.O.
- DISTRIBUTION PANELBOARD.
- BRANCH CIRCUIT PANELBOARD.
- CONDUIT BELOW FLOOR OR UNDERGROUND
- CONDUIT IN WALL OR ABOVE CEILING
- HOMERUN TO PANEL
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT STUB-OUT, MARK AND CAP AS DIRECTED
- GROUND WIRE (SIZE AS NOTED) EXTENDED AND CONNECTED TO APP'D GROUND

SPECIFICATIONS

- PRIOR TO SUBMITTING BID, SUBCONTRACTORS SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL HAVE TO OPERATE AND WHICH IN ANY WAY AFFECTS THE WORK UNDER HIS CONTRACT. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN BEHALF OF THE CONTRACTOR FOR ANY ERROR OR NEGLIGENCE ON HIS PART.
- THE SUBCONTRACTOR SHALL BE HELD FULLY RESPONSIBLE FOR THE PROPER RESTORATION OF ALL EXISTING SURFACES REQUIRING PATCHING, PLASTERING, PAINTING AND /OR OTHER REPAIR DUE TO THE INSTALLATION OF ELECTRICAL WORK UNDER THE TERMS OF THE CONTRACT. CLOSE ALL OPENINGS, REPAIR ALL SURFACES, ETC., AS REQUIRED.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, ELEVATIONS AND BUILDING DETAILS. VERIFY LOCATION OF ALL OUTLETS, SWITCHES, AND WALL MOUNTED LIGHTING FIXTURES WITH ARCHITECTURAL DRAWINGS AND ACTUAL CONDITIONS. VERIFY ALL CEILING TYPES WITH ARCHITECTURAL DRAWINGS BEFORE ORDERING FIXTURES.
- PRIOR TO ROUGH-IN AND FINAL CONNECTION, VERIFY ELECTRICAL CHARACTERISTICS AND EXACT LOCATION OF EQUIPMENT.
- GROUT AND SEAL ALL CONDUIT PENETRATIONS OF WALLS AND FLOOR SLABS TO PRESERVE FIRE RATING AND WATERTIGHT INTEGRITY.
- BRANCH CIRCUIT WIRING SHALL BE THHN/THWN INSULATION. PANEL FEEDERS SHALL BE TYPE XHHW. ALL WIRE SHALL BE COPPER. MINIMUM WIRE SIZE SHALL BE #12.
- ALL WIRING TO BE INSTALLED IN RACEWAYS. TYPE OF RACEWAY SHALL BE AS REQUIRED BY CODE. MINIMUM CONDUIT SIZE SHALL BE 1/2".
- PROVIDE CODE SIZED BOND WIRE IN ALL EMT, FLEXIBLE CONDUIT, OR NM CABLES.
- ALL ELECTRICAL EQUIPMENT SHALL BE NEW , U.L. APPROVED AND COMMERCIAL GRADE.
- WIRE RATED FOR 150° CENTIGRADE SHALL BE USED FOR ALL INCANDESCENT LIGHTING FIXTURES.
- ALL ELECTRICAL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST NATIONAL CODE, (N.E.C.), AND ALL APPLICABLE FEDERAL, STATE AND LOCAL CODES.
- PROVIDE TYPEWRITTEN DESCRIPTIVE PANEL DIRECTORIES

FIRE WALL/FLOOR PENETRATION

ALL PENETRATIONS OF FIRE RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION DETAIL THAT CONFORM TO UNDERWRITERS LABORATORY'S LISTINGS FOR THROUGH PENETRATION FIRESTOP SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING DETAILS WHICH SHOW COMPLETE CONFORMANCE WITH THE LISTING TO THE ARCHITECT AND SUCH DRAWINGS SHALL BE AVAILABLE TO THE LOCAL GOVERNING INSPECTORS. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATION WITH ALL VARIABLES DEFINED.

ALL WIRING #6 AWG AND LARGER SHALL BE XHHW COPPER. #8 AWG AND SMALLER SHALL BE THHN/THWN COPPER

OUTLET MOUNTING HEIGHTS PER AMERICAN DISABILITY ACT

SWITCHES +48" (MAX)

RECEPTACLES +18" (MIN)

TELEPHONE/DATA +18" (MIN)

SIDE REACH +54" (MAX)

PANELBOARD SYMBOLS

- * CONTINUOUS DUTY/LARGEST MOTOR @ 125%
- PROVIDE BREAKER W/ HANDLE "LOCK-ON" DEVICE
- ◆ CIRCUIT VIA TIMECLOCK
- ▲ CIRCUIT VIA PHOTOCELL
- HACR TYPE CIRCUIT BREAKER
- EXISTING BREAKER W/ NEW LOAD
- EXISTING BREAKER W/ EXISTING LOAD
- △ NEW BREAKER W/ NEW LOAD

ELECTRICAL DESIGN & CADD SERVICES INC.
1600 LAMB LANE
PRESCOTT, AZ. 86305
PH: (928) 776-4900
FAX (928) 776-7800
E-MAIL: EES@CABLEONE.NET

NOTE TO ELEC. CONTRACTOR:
ELECTRICAL CONTRACTOR MAY REUSE EXISTING CIRCUITS FROM EXISTING PANELS IF AVAILABLE FIELD VERIFY

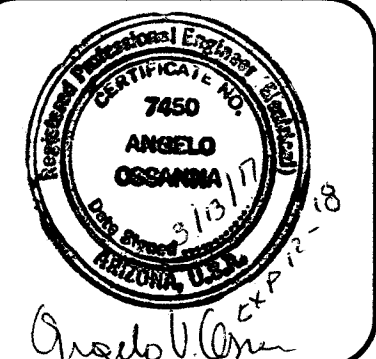
PANELBOARD L3 SCHEDULE									
MAINS: 250A MLO		LOAD-VA		LOCATION: SEE PLAN					
VOLTAGE: 120 / 208V, 3Ø, 4W				MOUNTING SURFACE					
TYPE: SIEMENS (EXISTING)				MIN. A.I.C. 14,000 AIC					
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	
RECEPT'S (EXISTING)	20	1				20		EXIST. EQUIP.	
		3				4	2		
		5				20			
		7				6			
		9				8	2		
		11				20			
EXIST. POWER POLE		13				12	2		
EXIST. EQUIP.		15				14			
		17				16	2		
		19				18			
NEW SUB-FEED PANEL 'L3A'	100	21			7000	20			
FOR RECEPT'S. IN RM 127	2	23			7000	24	2		
NORTH WALL RECEPT'S. RM 127	20	25				20			
EXIST. EQUIP.		27				26	1		
		29				30	1		
		31				30	1		
		33				32			
		35				34	2		
		37				30	1		
		39				38	1		
		41				40			
		43				42	2		
TOTAL LOAD PER PHASE: EXISTING ESTIMATED LOAD:			15000	15000	15000	H# 15000 / 120 = 125.0 AMPS			
NEW ADDED LOAD:				7000	7000	H# 7000 / 120V = 58.3 AMPS			
TOTAL LOAD:			15000	22000	22000	H# 22000 / 120V = 183.3 AMPS			

- EXIST. CIRCUIT 13 POWER POLE TO EXTEND & CONTINUE CONTINUITY FOR POWER IN ROOM 142
- REMOVE EXISTING CIRCUIT 21 POWER POLE IN RM. 127 AND REPLACE WITH 60A/2P BREAKER TO SUB-FEED NEW PNL. 'L3A' USE BREAKER SPACE (21,23)
- VENDING MACHINE CIRCUIT 23 TO BE USED FOR NEW SUB-FEED PANEL 'L3A' RE-FEED VENDING MACHINE FROM SPARE IN PANEL OR FEED FROM NEW PANEL 'L3A'

PANELBOARD L3A SCHEDULE									
MAINS: 100A MLO		LOAD-VA		LOCATION: SEE PLAN					
VOLTAGE: 120/208V, 1Ø-3Ø				MOUNTING SURFACE					
TYPE: SIEMENS OR EQUAL				MIN. A.I.C. 10,000					
CIRCUIT DESCRIPTION	BKR.	CIR. NO.	ØA	ØB	ØC	CIR. NO.	BKR.	CIRCUIT DESCRIPTION	
RECEPT'S.	20	1	1000			20	1	RECEPT'S.	
		3		1000					
		5	1000			4			
		7		1000		6			
		9	1000			8			
		11		1000		10			
		13	1000			12			
		15		1000		14			
		17	1000			16			
SPARE		19		1000		18		VENDING MACHINE	
		21				20		SPACE	
		23				22			
		25				24			
SPACE		27				26			
		29				28			
		31				30			
TOTAL LOAD PER PHASE:			7000	7000	7000	H# 7000 / 120 = 58.3 AMPS			

REVISIONS	BY

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ARCHITECTURE & PLANNING

DRAWING: Electrical Symbols, Panel Schedules, Specifications & Notes

PROJECT: ERAU Building 72: Room 127 Remodel
3700 Willow Creek Road
Prescott, AZ 86301

APN:

DRAWN BY
R.A.

CHECKED BY
A.O.

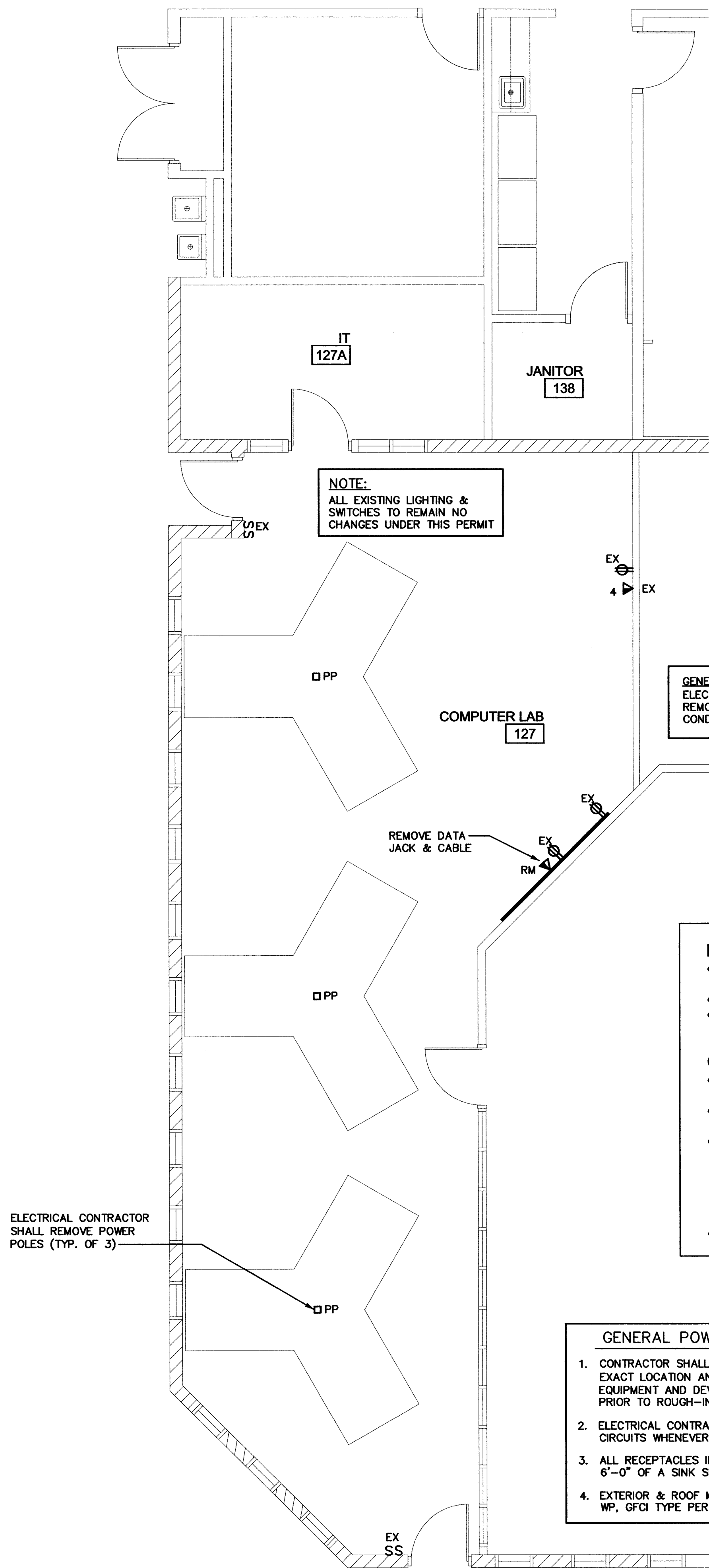
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694

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Mar 14, 2017 - 2:44pm



Power Demo Floor Plan

Scale: 1/4"=1'-0"



ABBREVIATIONS	
EX	EXISTING LIGHT OR DEVICE TO REMAIN
RE	EXISTING LIGHT OR DEVICE TO BE REPLACED OR RELOCATED EXTEND CIRCUITING AS REQUIRED IF NOT SHOWN.
ER	REPLACED OR RELOCATED LIGHT OR DEVICE
RM	REMOVED LIGHT OR DEVICE
A.F.F.	ABOVE FINISHED FLOOR (ϕ OF OUTLET)
A.F.G.	ABOVE FINISHED GRADE (ϕ OF OUTLET)
E.C.	EMPTY CONDUIT
UNO	UNLESS OTHERWISE NOTED
FBO	FURNISHED BY OTHERS
NL	NIGHT LIGHT
TYP	TYPICAL

NOTE
ELECTRICAL CONTRACTOR SHALL FIELD VERIFY SITE PRIOR TO BID TO CONFIRM ALL EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED AND ABANDONED.

GENERAL NOTE:
ELECTRICAL CONTRACTOR SHALL REMOVE ALL ABANDONED OR UNUSED CONDUIT & WIRING ECT. BACK TO PANEL.

DATA / COMMUNICATIONS:

- PULL, TERMINATE, AND TEST A TOTAL OF 47 NEW DATA CABLES PER REMODEL PROGRAM.
- REMOVE 18 EXISTING CAT5 CABLES FROM ROOM 127A TO POWER POLES.
- SUPPLY 15FT AND 7FT BLUE CAT6 PATCH CABLES. QUANTITY OF EACH LENGTH PATCH CABLES SUPPLIED SHALL EQUAL THE TOTAL NUMBER OF DATA PORTS INSTALLED.

GENERAL

- TERMINATE HORIZONTAL DATA AND VOICE CABLES TO EXISTING AND NEW 48-PORT CAT6 PATCH PANELS IN ROOM 127A.
- USE BLUE COLORED CAT6 CABLE AND JACKS FOR DATA PORTS AND WHITE COLORED CAT6 CABLE AND JACKS FOR PHONE PORTS.
- INTERNAL BUILDING CABLES SHALL BE ROUTED IN FRAMED WALLS AND ABOVE CEILING. CABLES MAY BE NEATLY SUSPENDED IN ENCLOSED CEILING AREAS USING CABLE HANGERS. CABLE MOLDING AND/OR SURFACE MOUNTED CONDUIT IS ACCEPTABLE IF THE CABLING CAN NOT BE ROUTED IN WALLS AND/OR ABOVE CEILING. MATCH EXISTING WALL COLORS WITH ALL SURFACE MOUNTED ITEMS.
- IT HEAD END EQUIPMENT WILL BE OWNER SUPPLIED.

GENERAL POWER NOTES:

- CONTRACTOR SHALL VERIFY ALL MOUNTING HEIGHTS EXACT LOCATION AND REQUIREMENTS OF ALL ELECTRICAL EQUIPMENT AND DEVICES WITH ENG., OWNER OR ARCHITECT PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL RE-USE EXISTING CIRCUITS WHENEVER POSSIBLE.
- ALL RECEPTACLES IN AREAS WITH-IN 6'-0" OF A SINK SHALL BE GFCI TYPE PER NEC
- EXTERIOR & ROOF MOUNTED MAINT. RECEPT'S. SHALL BE WP, GFCI TYPE PER NEC
- VERIFY THE EXACT LOCATIONS OF ALL TELEPHONE OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR SHALL PROVIDE COVER PLATES FOR ALL UNUSED OUTLETS, DATA OUTLETS AND SPECIAL SYSTEMS OUTLETS, FIELD VERIFY DEVICE NOT USED
- ELECTRICAL CONTRACTOR SHALL VERIFY MECHANICAL EQUIPMENT REQUIREMENTS BREAKER, DISC. & WIRE SIZE WITH MANUFACTURER PRIOR TO ROUGH-IN.

CEILING MOUNTED J-BOX FOR POWER AND DATA CONDUITS TO FEED WIREMOLD FIELD VERIFY EXACT LOCATIONS AND REQUIREMENTS.

CONDUITS TO CONNECT TO SPLIT SYSTEM WIREMOLD FOR POWER AND DATA ROUTE DOWN WALL

SPLIT SYSTEM WIREMOLD FOR POWER & DATA TO MATCH EXISTING OR EQUAL TO LAGRAND DS4000 DESIGNER SERIES RACEWAY FIELD VERIFY EXACT TYPE AND REQUIREMENTS. CONFIRM MODEL TYPE WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN.

WIREMOLD TO BE PROVIDED WITH POP OUT'S FOR POWER & DATA WHIP'S PER FURNITURE CONNECTION REQUIREMENTS. (TYP.)

L3A-1,3,5,7,9,11;13,15;17,19

CKT. 1

CKT. 3

CKT. 5

CKT. 7

CKT. 9

CKT. 11

CKT. 13

CKT. 15

CKT. 17

INDICATES NUMBER OF DATA PORTS (TYP.)

CKT. 1

CKT. 3

CKT. 5

CKT. 7

CKT. 9

CKT. 11

CKT. 13

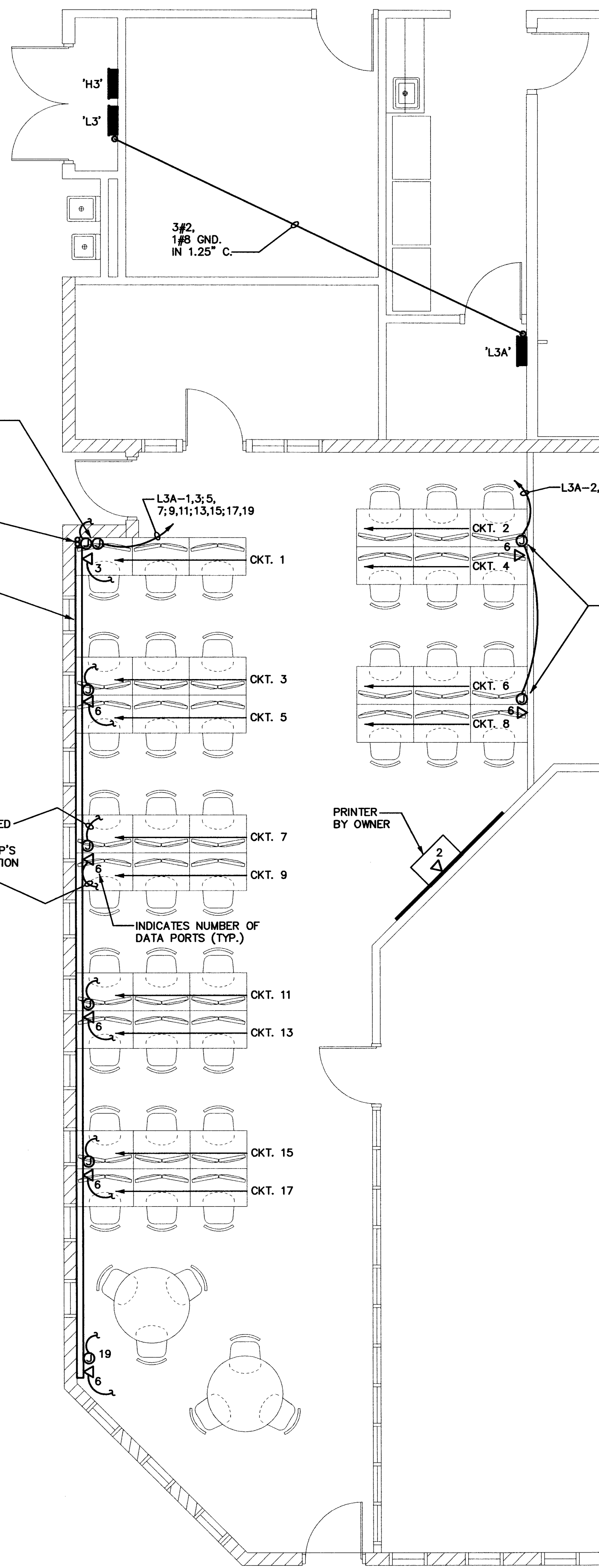
CKT. 15

CKT. 17

PRINTER BY OWNER

L3A-2,4;6,8

JUNCTION BOX AND CONDUIT SHALL BE "FISHED" WITHIN EXISTING GYPSUM DRYWALL WALL CAVITY



Power Floor Plan

Scale: 1/4"=1'-0"



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ARCHITECTURE & PLANNING

DRAWING: Power Design & Demo Floor Plan
With Notes
PROJECT: ERAU Building 72, Room 127 Remodel
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Prescott, AZ 86301
APN:

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DATE
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