A NEW ENVIORNMENTAL IMPROVMENT FOR

PRESCOTT FIRE DEPARTMENT #71

335 WHITE SPAR RD. — PRESCOTT, ARIZONA 86303

1. THE GENERAL CONTRACTOR, HEREINAFTER REFERRED TO AS "THE CONTRACTOR", SHALL BECOME FAMILIAR WITH ALL GOVERNING BUILDING CODES, ORDINANCES, AND STANDARDS PRIOR TO BIDDING AND SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THESE STANDARDS.
2. GENERAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO CHECK EXISTING CONDITIONS. SHOULD THE CONTRACTOR FIND CONDITIONS WHICH HE BELIEVES WOULD IMPEDE HIS WORK OR FIND DISCREPANCIES BETWEEN THE PLANS AND EXISTING SITE CONDITIONS, SUCH CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE ARCHITECT. FAILURE TO ADVISE WILL CONSTITUTE NOTICE THAT CONTRACTOR IS FULLY SATISFIED WITH THE EXISTING CONDITIONS AND THAT HE INTENDS TO PERFORM HIS OBLIGATIONS WITH NO ALLOWANCE EITHER IN TIME OR MONEY FOR ANY IMPEDIMENTS TO HIS WORK.
3. ALL BIDDING SUBCONTRACTORS AND SPECIALTY CONTRACTORS SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS INCLUDING, BUT NOT LIMITED TO, PLANS AND SPECIFICATIONS. BID DOCUMENTS SHALL BE DISTRIBUTED TO SUBCONTRACTORS IN COMPLETE SETS AS INDICATED BY THE SHEET INDEX. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT SUBCONTRACTORS BID ON ALL ITEMS ASSOCIATED WITH THEIR RESPECTIVE TRADES.
4. ITEMS NOT INDICATED IN THESE DOCUMENTS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO COMPLETE THE WORK SHALL BE FURNISHED BY THE CONTRACTOR AS THOUGH IT WERE DETAILED HEREIN.
5. THE CONTRACTOR SHALL INCORPORATE ALL MUNICIPAL PLAN REVIEW REDLINES AND OWNER REVISIONS IN THE FINAL BID PRIOR TO SIGNING CONTRACT DOCUMENTS. THE CONTRACT SHALL BE BASED ON COMPLETE MUNICIPAL APPROVED CONSTRUCTION DOCUMENTS.
6. ALL MANUFACTURED ARTICLES, MATERIALS, AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, USED, CLEANED, AND CONDITIONED IN ACCORDANCE WITH THE MANUFACTURERS' WRITTEN SPECIFICATIONS OR INSTRUCTIONS UNLESS HEREINAFTER SPECIFIED TO THE CONTRARY.
7. DIMENSIONS TAKE PRECEDENCE OVER SCALE ON CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
8. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION AND/OR INSTALLATION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
9. ALL WORK SHALL BE EXECUTED IN A NEAT AND WORKMANLIKE MANNER.
10. WHEN WORK NOT SPECIFICALLY CALLED OUT IS REQUIRED TO COMPLETE THE PROJECT, IT SHALL BE PROVIDED AND BE OF MATERIALS AND WORKMANSHIP THAT THE PROJECT BUDGET ALLOWS.
11. CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A PERIOD OF TWO YEARS FROM THE DATE OF SUBSTANTIAL COMPLETION (IN WRITING).
12. UNLESS OTHERWISE SPECIFICALLY NOTED, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT AND MACHINERY, TRANSPORTATION, AND OTHER FACILITIES AND SERVICES NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK IN ACCORDANCE WITH PROJECT BUDGET.
13. THE CONTRACTOR WARRANTS TO THE OWNER AND THE ARCHITECT THAT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT WILL BE NEW UNLESS OTHERWISE SPECIFIED, AND THAT ALL WORK WILL BE GOOD QUALITY, FREE FROM FAULTS AND DEFECTS, AND IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. ALL WORK NOT SO CONFORMING TO THESE STANDARDS MAY BE CONSIDERED DEFECTIVE.
14. THE WARRANTIES AND GUARANTEES PROVIDED IN THE CONSTRUCTION DOCUMENTS SHALL BE IN ADDITION TO, AND NOT IN LIMITATION OF, ANY OTHER WARRANTY, GUARANTY, OR REMEDY REQUIRED BY LAW OR BY THE CONSTRUCTION DOCUMENTS.
15. ALL MERCHANDISE AND EQUIPMENT SUPPLIED BY CONTRACTOR CARRIES THE MANUFACTURES STANDARD WARRANTY ONLY AND SHALL BE VOIDED BY ABUSE, MISUSE, OR MISAPPLICATION.
16. PORTABLE FIRE EXTINGUISHERS PER NFPA #10 2A:10B:C RATED MINIMUM SHALL BE PROVIDED AS SHOWN ON THE DRAWINGS.
17. EXITWAYS SHALL BE ILLUMINATED BY BACK-UP POWER, THE CONTRACTOR SHALL PROVIDE EMERGENCY LIGHTING TESTING PRIOR TO INSPECTION BY DISCONNECTING THE MAIN.
18. THE UNLATCHING OF ANY LEAF OF ANY EXIT DOOR SHALL NOT REQUIRE MORE THAN ONE OPERATION. MANUALLY OPERATED EDGE-OF-SURFACE MOUNTED FLUSH BOLTS ARE PROHIBITED. ALL EXITS TO BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
19. HANDLES, PULLS, LATCHES, AND LOCKS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE.
20. IT IS THE CONTRACTOR'S AND/OR SUBCONTRACTOR'S RESPONSIBILITY TO VERIFY IF ANY REVISIONS HAVE BEEN MADE TO THESE PLANS AND TO OBTAIN THE CURRENT PERMITTED SET OF PLANS PRIOR TO COMMENCING THE WORK.

CONTRACTOR GENERAL NOTES

OCCUPANCY:	E EDUCATION		525 SQ. FT.
	B BUSINESS		1,056 SQ. FT.
	S-1 ACCESSORY		5,359 SQ. FT.
	R-2 RESIDENTIAL		647 SQ. FT.
	CIRCULATION, TOILET, STORAGE ROOMS		1,709 SQ. FT.
TYPE OF CONSTRUCTION:	TYPE II FULLY NFPA-13 SPRINKLERED		
ACTUAL BUILDING AREA:	GROSS SF. FOR FLOOR 1 AND 2		10,417 SQ. FT.
	FLOOR 2 SF.		739 SQ. FT.
	TOTAL SF.		11,156 SQ. FT.
MAXIMUM STORIES ALLOWABLE:	2	ACTUAL:	2
MAXIMUM BUILDING HEIGHT:	60'	ACTUAL:	EXISTING
EXITS REQUIRED: (PER TABLE 1006.3.2)	2	EXITS PROVIDED:	2
OFF-STREET PARKING:	EXISTING PARKING SPOTS PROVIDED TO REMAIN		

CODE ANALYSIS

GOVERNING BUILDING CODES

ALL CONSTRUCTION SHALL COMPLY WITH THE FOLLOWING CODES AND AMENDMENTS PER THEIR ADOPTING ORDINANCES:

2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FUEL GAS CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2018 INTERNATIONAL ENERGY CONSERVATION CODE
CITY OF PRESCOTT LAND DEVELOPMENT CODE
DEEPWELL RANCH MASTER PLAN

INCLUDING ALL CITY OF PRESCOTT AMMENDMENTS TO ANY APPLICABLE LISTED CODE

ALL PRODUCTS LISTED BY I.C.B.O./N.E.R. NUMBER(S) SHALL BE INSTALLED PER THE REPORT AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PRODUCT SUBSTITUTION(S) FOR PRODUCT(S) LISTED SHALL ALSO HAVE I.C.B.O. APPROVED EVALUATION REPORT(S) OR BE APPROVED AND LISTED BY OTHER NATIONALLY RECOGNIZED TESTING AGENCIES.

GOVERNING BUILDING CODES

OWNER
CITY OF PRESCOTT
201 N. MONTEZUMA ST.
PRESCOTT, ARIZONA 86301-3055

CONTRACTOR
TBD

ARCHITECT
MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET
PRESCOTT, ARIZONA 86303
(928) 445-0626

STRUCTURAL
FROST ENGINEERING
1678 OAKLAWN DRIVE SUITE C
PRESCOTT, ARIZONA 86305
(928) 776-4757

MECHANICAL, ELECTRICAL, PLUMBING ENGINEER
BOWIE TIGLAS ENGINEERING, INC.
24820 NORTH 16TH AVENUE
SUITE 170
PHOENIX, ARIZONA 85085
(602) 992-3900

PROJECT TEAM

CITY OF PRESCOTT
210 N. MONTEZUMA ST.
PRESCOTT, ARIZONA 86303
(928) 777-1371

AUTHORITY HAVING JURISDICTION

NOT TO SCALE

VICINITY MAP

THE PROJECT INVOLVES THE PARTIAL INTERIOR REMODEL OF THE FIRST-STORY IN AN EXISTING TWO-STORY BUILDING CURRENTLY BEING USED AS A FIRE STATION. THE EXISTING BUILDING FOOTPRINT OF 11,156 SQUARE FEET WILL NOT BE CHANGED. TWO ROOMS WILL BE ADDED NEAR THE ENTRANCE CURRENTLY USED BY FIRE FIGHTERS AS A DESIGNATED TURNOUT LOCKER ROOM AND SEPARATE FACILITIES ROOM. THEY WILL SERVE AS AN ENVIRONMENTAL IMPROVEMENT TO THE OVERALL FIRE STATION. NO EXTERIOR CHANGES WILL BE MADE TO THIS STRUCTURE.

PROJECT DESCRIPTION

PROJECT ADDRESS:	335 WHITE SPAR ROAD
PARCEL #:	109-15-024A
SUBDIVISION / LOT #:	N/A
JURISDICTION:	CITY OF PRESCOTT
ZONING:	BR - BUSINESS REGIONAL
SECTION TOWNSHIP RANGE:	S04-T13N-R02W

PROJECT DATA

STRUCTURAL ANALYSIS OF DUCT OPENING AND RTU BEARING IN ATTACHED SHEETS FROM FROST ENGINEERING

CONTRACT DOCUMENT SHEET INDEX

REGISTERED ARCHITECT CERTIFICATE NO. 24683 MICHAEL G. TAYLOR ARIZONA, U.S.A. 5-14-25

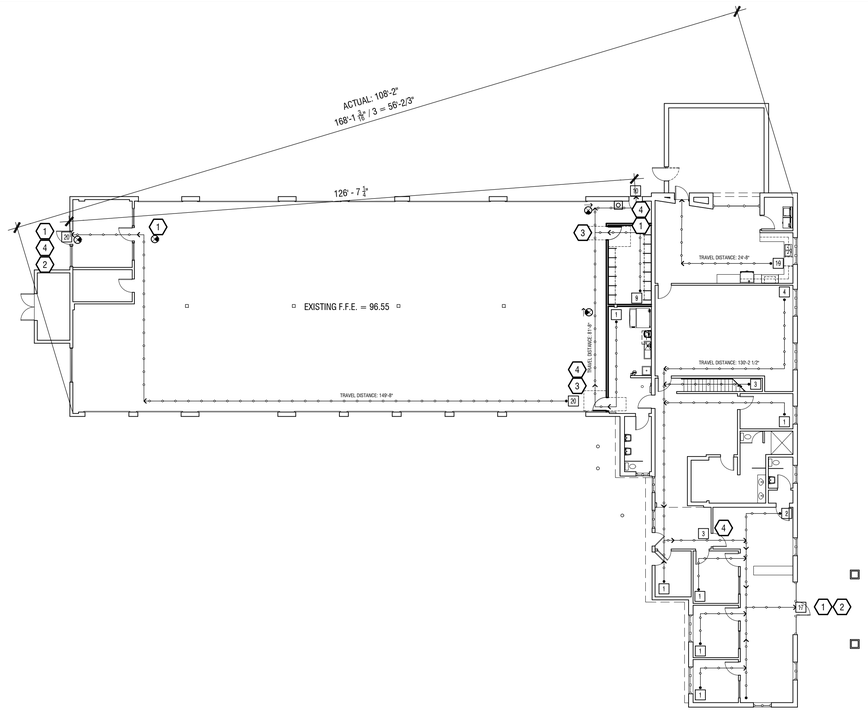
MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 445 0626 WWW.MTAI.NET

AN ENVIRONMENTAL IMPROVEMENT FOR
PRESCOTT FIRE DEPT. #71
PRESCOTT, AZ 86303
335 WHITE SPAR ROAD
109-15-024A
ZONING: BG

PLOT DATE: MAY 6, 2025
MTAI PROJECT NUMBER: 25009
DATE: DESCRIPTION:

COVER SHEET

G-001



4 EGRESS PLAN

SCALE: 1/16" = 1'-0"

1 TACTILE "EXIT" INTERIOR SIGNAGE @ EXITS - MOUNT C.O. SIGNAGE AT 60" A.F.F. & ADJACENT TO EGRESS DOOR

EXIT

2 PER 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 404.2.5 THRESHOLDS, IF PROVIDED AT DOORWAYS, SHALL BE 1/2" (13mm) HIGH MAXIMUM

3 DOOR FITTED WITH PASSAGE LOCK SETS

4 AUTHORIZED PERSONNEL ONLY INTERIOR AND EXTERIOR SIGNAGE @ DOORS TO AND FROM RESTRICTED AREAS - MOUNT C.O. SIGNAGE AT 60" A.F.F. & ADJACENT TO EGRESS DOOR

AUTHORIZED PERSONNEL ONLY

SINGLE FACED DIRECTIONAL EXIT SIGN - NOT SWITCHED

SINGLE FACED EXIT SIGN - NOT SWITCHED

TWO HEAD EMERGENCY LIGHT WITH BATTERY AT 8'-0" A.F.F.

COMBO EXIT / EMERGENCY LIGHT WITH BATTERY AT 8'-0" A.F.F.

FIRE EXTINGUISHER 2A-10B-C MINIMUM

3 EGRESS PLANS LEGEND

OCCUPANCY LOAD / EGRESS REQUIREMENT TABLE:
(I.B.C. TABLE 1004.1.1)

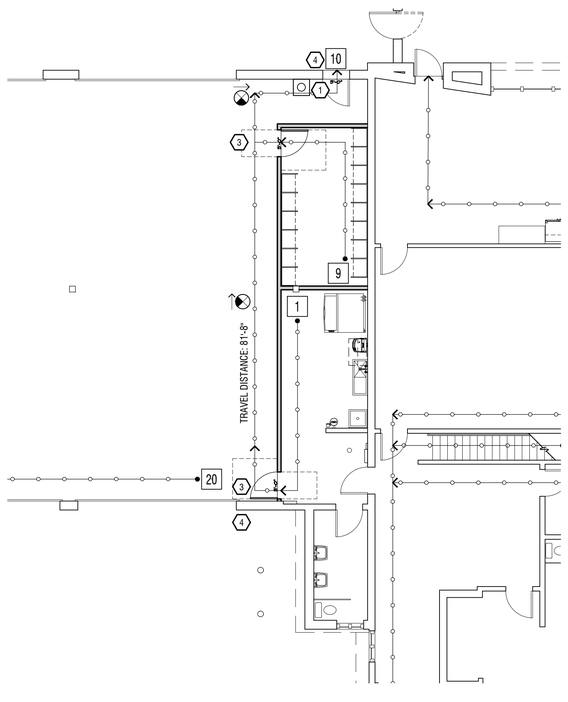
ROOM #	ROOM/SPACE IDENTIFICATION:	OCCUPANCY TYPE	NET S.F.	S.F./OCC. FACTOR	# OCC. BY S.F.
101	ENTRY LOBBY	CIRCULATION	**336**	-	-
102	RECEPTION	BUSINESS	**236**	150	1.6
103	OFFICE 01	BUSINESS	**98**	150	0.7
104	OFFICE 02	BUSINESS	**119**	150	0.8
105	OFFICE 03	BUSINESS	**119**	150	0.8
106	MECHANICAL	ACCESSORY	**83**	300	0.3
107	COORIDOR	CIRCULATION	**117**	-	-
108	VESTIBULE	CIRCULATION	**16**	-	-
109	PUBLIC RESTROOM	N/A	**38**	-	-
110	SHOWER ROOM	N/A	**126**	-	-
111	DRESSING	ACCESSORY	**105**	300	0.4
112	REC. ROOM	ACCESSORY	**356**	300	1.2
113	CAPTAIN	BUSINESS	**93**	150	0.6
114	RESTROOM	N/A	**74**	-	-
115	STAIRWELL	CIRCULATION	**58**	-	-
116	DORM	RESIDENTIAL	**647**	200	3.2
117	LIVING/CLASSROOM	EDUCATION	**354**	20	17.7
118	KITCHEN	BUSINESS	**142**	150	0.9
119	LAUNDRY	BUSINESS	**48**	150	0.3
120	LOCKER ROOM	EDUCATION	**171**	20	8.6
121	FACILITIES	ACCESSORY	**232**	300	0.8
122	APPARATUS	ACCESSORY	**5359**	300	17.9
123	STORAGE	ACCESSORY	**110**	-	-
125	OFFICE 04	BUSINESS	**201**	150	1.3
126	PARTS STORAGE	ACCESSORY	**95**	-	-
124	STORAGE/REPAIR - SECOND FLOOR	ACCESSORY	**739**	-	-

TOTAL OCCUPANT LOAD:		**# OCC. BY S.F.**
OCCUPANTS:	FIRST FLOOR	**57**
	SECOND FLOOR	**0**

EGRESS WIDTH PER OCCUPANT:		STAIRWAYS	OTHER COMPONENTS
(I.B.C. SECTION 1005.3.1 AND 1005.3.2)		0.2" PER OCCUPANT	0.15" PER OCCUPANT

MAXIMUM TRAVEL DISTANCE:		**GREATEST ACTUAL**	**ALLOWED**
(I.B.C. TABLE 1016.2)		210 FT.	300 FT.
CORRIDOR FIRE-RESISTANCE RATING:		**WITH SPRINKLER SYSTEM**	
(I.B.C. TABLE 1018.1)		0 HOURS	

1 OCCUPANCY LOAD CALCULATION



5 ENLARGED EGRESS PLAN

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

IBC TABLE 2902.1
PLUMBING FIXTURE CALCULATION

OCCUPANCY		WATER CLOSETS				LAVATORIES			SHOWERS			DRINKING	SERVICE
USE	LOAD	RATIO	MALE	RATIO	FEMALE	RATIO	MALE	FEMALE	RATIO	ALL	DF RATIO	FOUNTAIN	SINK
Education E	27	1/50	0.27	1/50	0.27	1/50	0.27	0.27	-	-	1/100	0.27	1
Business B	8	1/25	0.16	1/25	0.16	1/40	0.10	0.10	-	-	1/100	0.08	0
Accessory S-1	18	1/100	0.18	1/100	0.18	1/100	0.18	0.18	-	-	1/1000	0.18	1
Residential R-2	4	1/10	0.04	1/10	0.04	1/10	0.04	0.04	1/8	0.04	1/100	0.04	1
Subtotals			0.65		0.65		0.59	0.59		0.04		0.57	3
Required Totals			1		1		1	1		1		1	3
Total Provided			1		2		2	3		1		1	2

* Per IPC Section 419.2 urinals may be substituted for up tp 50% of the required water closets.

** There are hi-lo drinking fountains provided. Per IBC 1109.5.2 "...50 percent of the total number of drinking fountains provided shall comply with the requirements for persons who use a wheelchair and 50 percent of the total number of drinking fountains provided shall comply with the requirements for standing persons."

Gender Distribution
28.5 Male
28.5 Female
---
57 Total Occupant Load

2 PLUMBING FIXTURE CALCULATION

REGISTERED ARCHITECT
CERTIFICATE NO.
24683
MICHAEL G. TAYLOR
5-14-25
DATE SIGNED
ARIZONA U.S.A.

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 445 0606 WWW. MTAI. NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

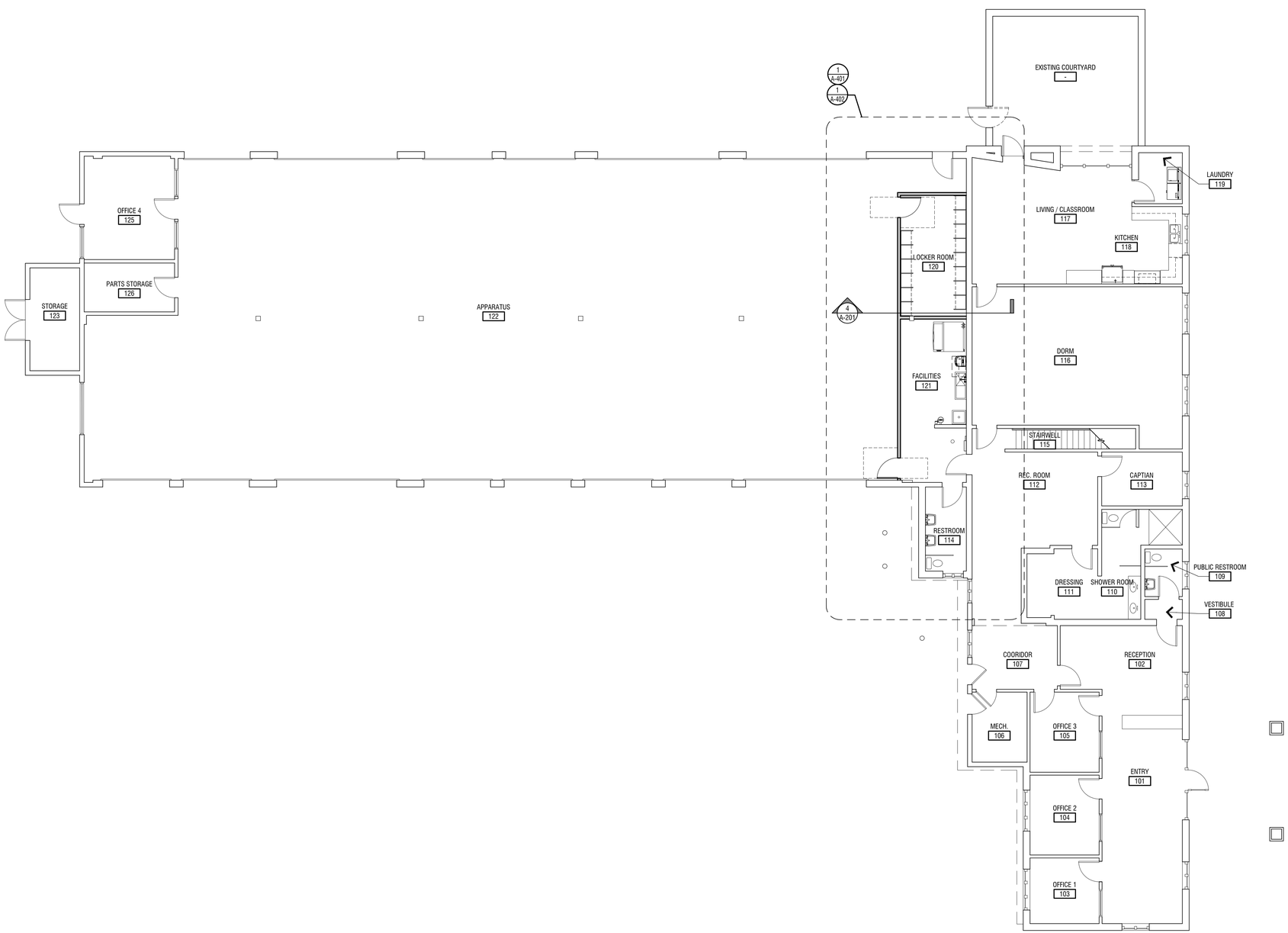
335 WHITE SPAR ROAD PRESCOTT, AZ 86303

109-15-024A
-
ZONING: BG

MTAI PROJECT NUMBER: 25009
PLOT DATE: MAY 6, 2025
DATE: DESCRIPTION:

CODE SHEET

CS-101



1 PRELIMINARY FLOOR PLAN

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

NORTH

GENERAL PROJECT REQUIREMENTS

(0.00) NEW WALL TO BE PLACED BETWEEN THE EXISTING MECHANICAL UNIT AND EXISTING COLUMN (NOW ENCAPSULATED IN WALL) - VERIFY LOCATION IN FIELD

(0.01) COLUMN TO BE FLUSH ON LOCKER ROOM SIDE OF THE WALL

(0.02) FIELD VERIFY MEASUREMENT

EXISTING CONDITIONS

(2.00) CONCRETE SLAB - EXISTING

(2.01) MASONRY WALL - EXISTING

(2.02) PONY WALL - 2X4 @ 16" O.C. FRAME WALL - EXISTING

(2.03) STEEL SINK - EXISTING - VERIFY NEW LOCATION

(2.04) BASE AND UPPER CABINETS - TO BE REMOVED

(2.05) DRINKING FOUNTAIN AND BOTTLE FILLING STATION - EXISTING - VERIFY NEW LOCATION

(2.06) COLUMN - EXISTING

(2.07) BEAM - EXISTING

(2.08) OVERHEAD GARAGE DOOR - EXISTING

(2.09) UNIT HEATER - EXISTING

(2.10) ICE MACHINE - EXISTING - VERIFY NEW LOCATION

(2.11) ELECTRICAL PANEL - EXISTING

(2.12) CEILING AND ROOF - EXISTING

THERMAL AND MOISTURE PROTECTION

(7.00) FIBER REINFORCED PANEL (FRP) BEHIND MOP SINK

OPENINGS

(8.00) HOLLOW CORE METAL DOOR IN HOLLOW CORE METAL FRAME, SEE SCHEDULE

FINISHES

(9.00) SUSPENDED ACOUSTICAL CEILING SYSTEM 2' X 4' - 10'-0" A.F.F.

(9.01) GWB WALLS - T&T, PAINTED - COLOR T.B.D.

(9.02) BASEBOARDS - VINYL MATERIAL CUT TO FIT, TYP 4" - COLOR - TBD

SPECIALTIES

(10.0) AUTOMATIC SOAP DISPENSER - BOBRICK B-2012 OR SIMILAR

(10.0) AUTOMATIC PAPER TOWEL DISPENSER - PACIFIC BLUE ULTRA 9" MINI OR SIMILAR

(10.0) TURNOUT LOCKERS - NEW AND EXISTING (14 TOTAL)

(10.0) TACTILE "EXIT" INTERIOR SINAGE AT EXITS - MOUNT C.O. SINAGE AT 60" A.F.F. & ADJACENT TO EGRESS DOORS

PLUMBING

(22.0) MOP SINK - NEW

(22.0) EYE WASH STATION - VERIFY REPLACING

HEATING, VENTILATING, AND AIR CONDITIONING

(23.0) NEW ROOF TOP UNIT

(23.0) HVAC VENTS

ELECTRICAL

(26.0) LIGHTING FIXTURE, SEE ELECTRICAL

KEYNOTES

REGISTERED ARCHITECT
CERTIFICATE NO.
24683
MICHAEL G.
TAYLOR
5-14-25
ARIZONA U.S.A.

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AN ENVIRONMENTAL IMPROVEMENT FOR

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PRESCOTT, AZ 86303

335 WHITE SPAR ROAD

-
109-15-024A
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ZONING: BG

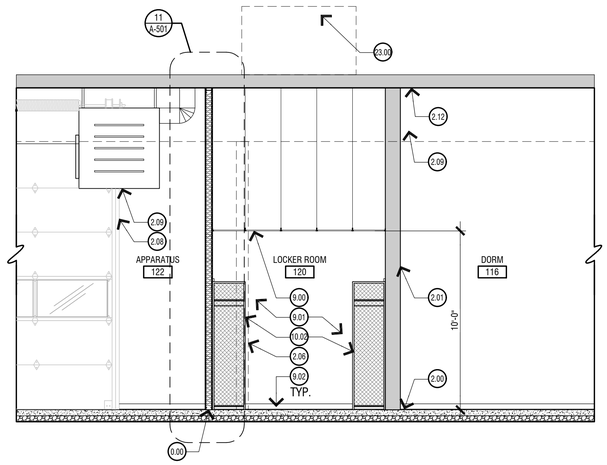
MTAI PROJECT NUMBER: 25009

PLOT DATE: MAY 6, 2025

DATE: DESCRIPTION:

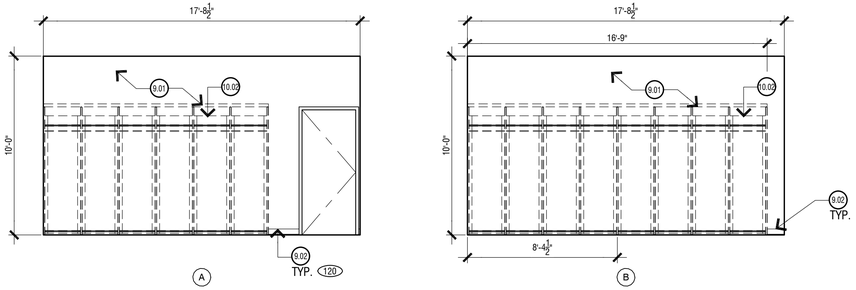
OVERALL FLOOR PLAN

A-101



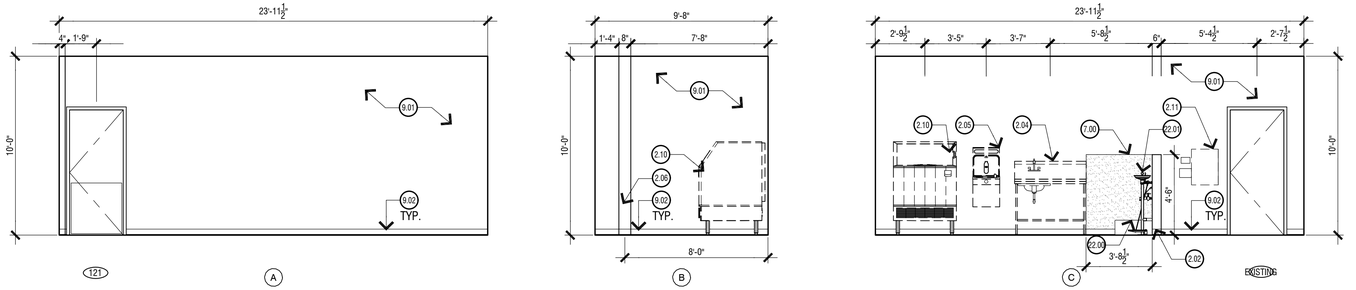
4 SECTION - LOCKER ROOM 120

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



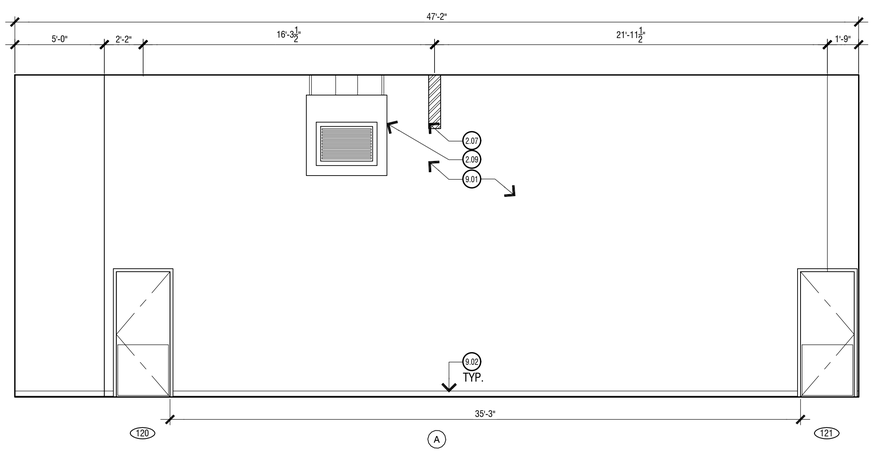
1 LOCKER ROOM - 120

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



2 FACILITIES - 121

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



3 APPARATUS - 122

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

GENERAL PROJECT REQUIREMENTS

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0.01 COLUMN TO BE FLUSH ON LOCKER ROOM SIDE OF THE WALL

0.02 FIELD VERIFY MEASUREMENT

EXISTING CONDITIONS

2.00 CONCRETE SLAB - EXISTING

2.01 MASONRY WALL - EXISTING

2.02 PONY WALL - 2X4 @ 16" O.C. FRAME WALL - EXISTING

2.03 STEEL SINK - EXISTING - VERIFY NEW LOCATION

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2.07 BEAM - EXISTING

2.08 OVERHEAD GARAGE DOOR - EXISTING

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2.11 ELECTRICAL PANEL - EXISTING

2.12 CEILING AND ROOF - EXISTING

THERMAL AND MOISTURE PROTECTION

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OPENINGS

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FINISHES

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PLUMBING

22.00 MOP SINK - NEW

22.01 EYE WASH STATION - VERIFY REPLACING

HEATING, VENTILATING, AND AIR CONDITIONING

23.00 NEW ROOF TOP UNIT

23.01 HVAC VENTS

ELECTRICAL

26.00 LIGHTING FIXTURE, SEE ELECTRICAL

KEYNOTES

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PRESCOTT, AZ 86303

335 WHITE SPAR ROAD

-
109-15-024A
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ZONING: BG

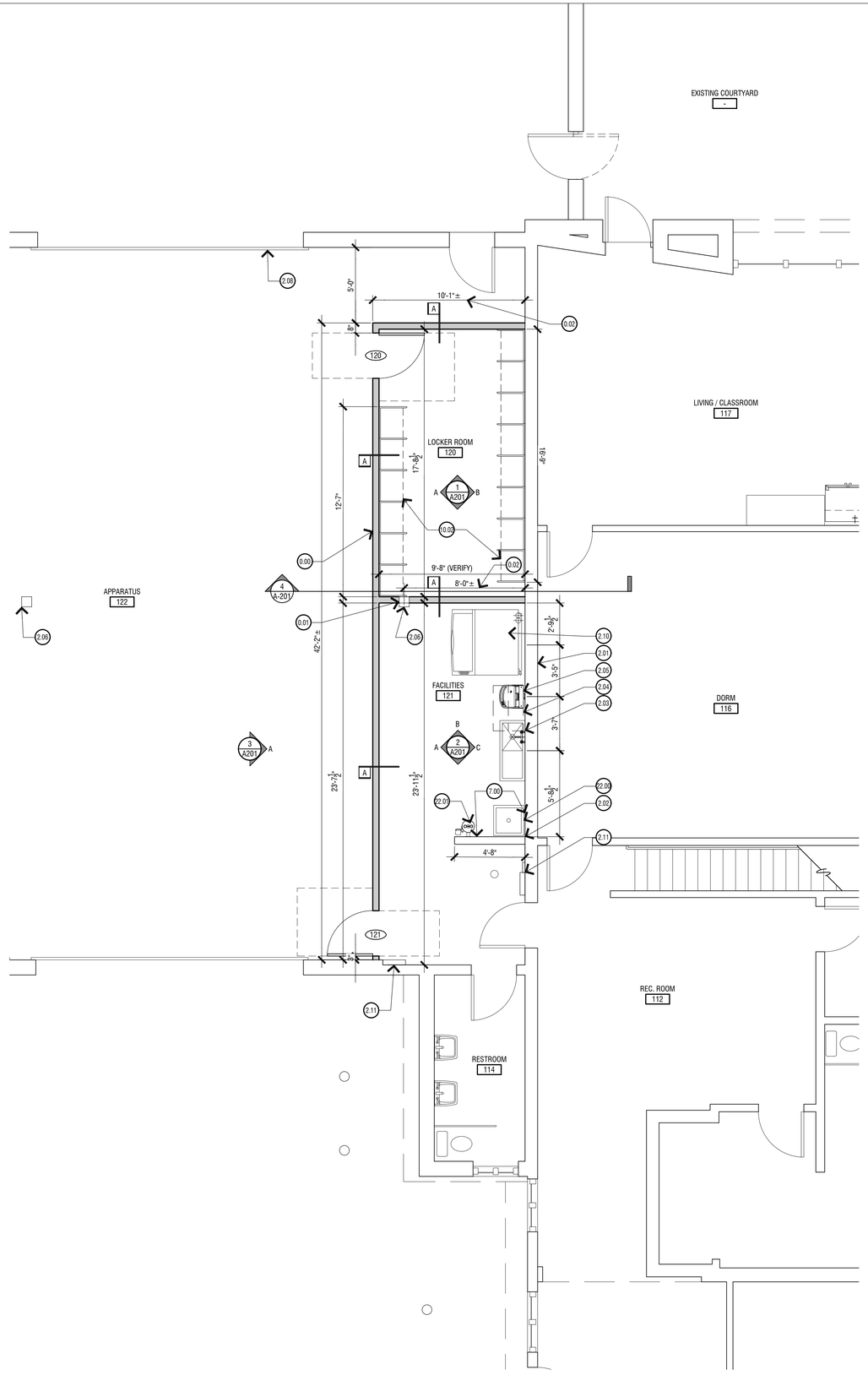
MTAI PROJECT NUMBER: 25009

PLOT DATE: MAY 6, 2025

DATE: DESCRIPTION:

INTERIOR ELEVATIONS & SECTION

A-201



1 PRELIMINARY FLOOR PLAN

SCALE: 1/16" = 1'-0"

NORTH

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EXISTING CONDITIONS

2.00 CONCRETE SLAB - EXISTING

2.01 MASONRY WALL - EXISTING

2.02 PONY WALL - 2X4 @ 16" O.C. FRAME WALL - EXISTING

2.03 STEEL SINK - EXISTING - VERIFY NEW LOCATION

2.04 BASE AND UPPER CABINETS - TO BE REMOVED

2.05 DRINKING FOUNTAIN AND BOTTLE FILLING STATION - EXISTING - VERIFY NEW LOCATION

2.06 COLUMN - EXISTING

2.07 BEAM - EXISTING

2.08 OVERHEAD GARAGE DOOR - EXISTING

2.09 UNIT HEATER - EXISTING

2.10 ICE MACHINE - EXISTING - VERIFY NEW LOCATION

2.11 ELECTRICAL PANEL - EXISTING

2.12 CEILING AND ROOF - EXISTING

THERMAL AND MOISTURE PROTECTION

7.00 FIBER REINFORCED PANEL (FRP) BEHIND MOP SIINK

OPENINGS

8.00 HOLLOW CORE METAL DOOR IN HOLLOW CORE METAL FRAME, SEE SCHEDULE

FINISHES

9.00 SUSPENDED ACOUSTICAL CEILING SYSTEM 2' X 4' - 10'-0" A.F.F.

9.01 GWB WALLS - T&T, PAINTED - COLOR T.B.D.

9.02 BASEBOARDS - VINYL MATERIAL CUT TO FIT, TYP 4" - COLOR - TBD

SPECIALTIES

10.00 AUTOMATIC SOAP DISPENSER - BOBRICK B-2012 OR SIMILAR

10.01 AUTOMATIC PAPER TOWEL DISPENSER - PACIFIC BLUE ULTRA 9" MINI OR SIMILAR

10.02 TURNOUT LOCKERS - NEW AND EXISTING (14 TOTAL)

10.03 TACTILE "EXIT" INTERIOR SINAGE AT EXITS - MOUNT C.O. SINAGE AT 60" A.F.F. & ADJACENT TO EGRESS DOORS

PLUMBING

22.00 MOP SINK - NEW

22.01 EYE WASH STATION - VERIFY REPLACING

HEATING, VENTILATING, AND AIR CONDITIONING

23.00 NEW ROOF TOP UNIT

23.01 HVAC VENTS

ELECTRICAL

26.00 LIGHTING FIXTURE, SEE ELECTRICAL

KEYNOTES

REGISTERED ARCHITECT
CERTIFICATE NO.
24683
MICHAEL G. TAYLOR
5-14-25
ARIZONA U.S.A.

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 . 445 . 0055 WWW . MTAI . NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

PRESCOTT, AZ 86303

335 WHITE SPAR ROAD

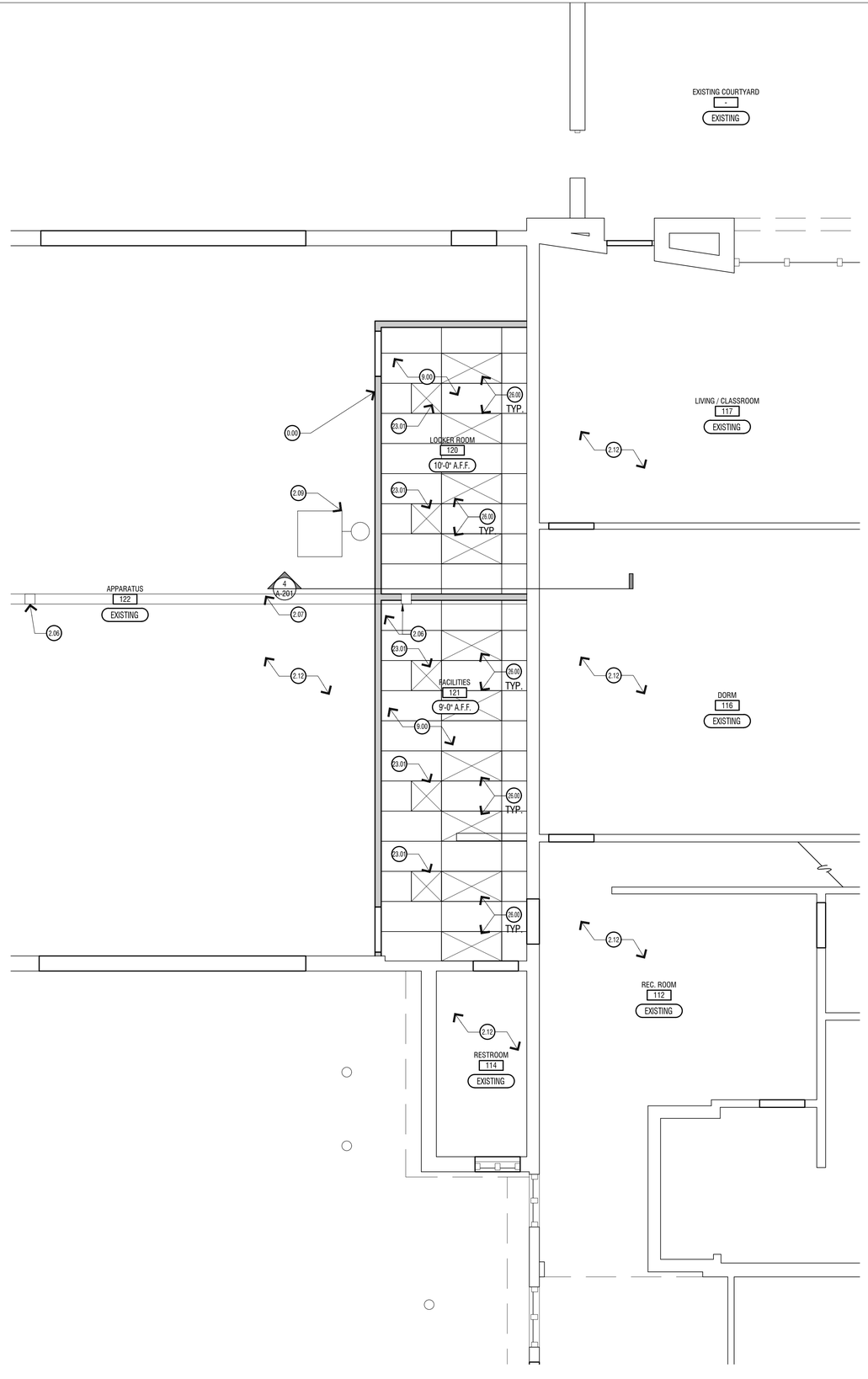
-
109-15-024A
ZONING: BG

MTAI PROJECT NUMBER: 25009 PLOT DATE: MAY 6, 2025

DATE: DESCRIPTION:

DIMENSIONED& ANNOTATED ENLARGED FLOOR PLAN

A-401



1 PRELIMINARY FLOOR PLAN

SCALE: 1/16" = 1'-0"

NORTH

GENERAL PROJECT REQUIREMENTS

0.00 NEW WALL TO BE PLACED BETWEEN THE EXISTING MECHANICAL UNIT AND EXISTING COLUMN (NOW ENCAPSULATED IN WALL) - VERIFY LOCATION IN FIELD

0.01 COLUMN TO BE FLUSH ON LOCKER ROOM SIDE OF THE WALL

0.02 FIELD VERIFY MEASUREMENT

EXISTING CONDITIONS

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2.01 MASONRY WALL - EXISTING

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23.01 HVAC VENTS

ELECTRICAL

26.00 LIGHTING FIXTURE, SEE ELECTRICAL

KEYNOTES

REGISTERED ARCHITECT
CERTIFICATE NO.
24683
MICHAEL G.
TAYLOR
5-14-25
DATE SIGNED
ARIZONA U.S.A.

MICHAEL TAYLOR ARCHITECTS, INC.
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PHONE 928 445 0606 WWW. MTAI. NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

PRESCOTT, AZ 86303

335 WHITE SPAR ROAD

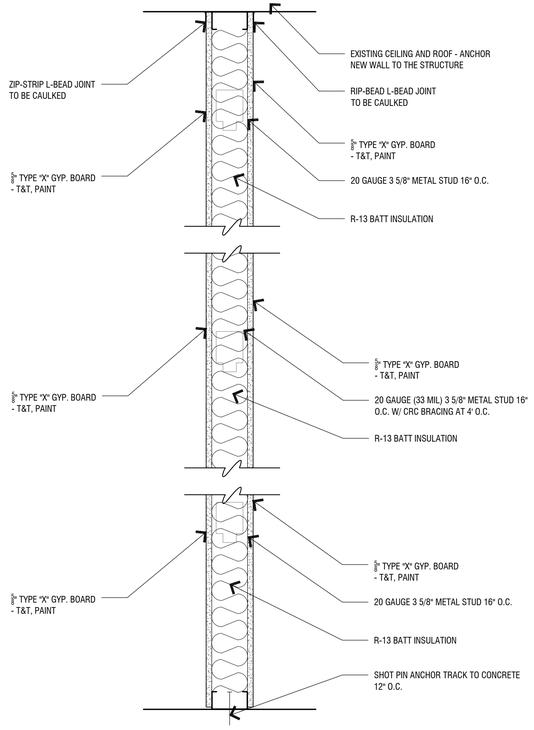
-
109-15-024A
-
ZONING: BG

MTAI PROJECT NUMBER: 23009 PLOT DATE: MAY 6, 2025

DATE: DESCRIPTION:

ENLARGED RCP

A-402



11 DETAIL - WALL TYPE A

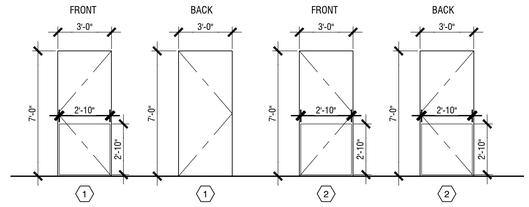
SCALE: 1 1/2" = 1'-0"

NUMBER	SIZE	MATERIAL	DOOR TYPE	DOOR FIRE RATING	DOOR HARDWARE	FRAME MATERIAL	FRAME TYPE	DETAILS HEAD	DETAILS JAMB	DETAILS SILL / THRESHOLD	DETAILS MULLION / TRANSOM	REMARKS
120	3'-0" x 7'-0"	FMC-HC	1	N/A	1	HM	1	10/A-501	7/A-501	---	---	1 2 4
121	3'-0" x 7'-0"	FMC-HC	2	N/A	1	HM	1	10/A-501	7/A-501	---	---	1 3 4

1 DOOR SCHEDULE

HM HOLLOW METAL - WELDED

2 DOOR SCHEDULE KEY



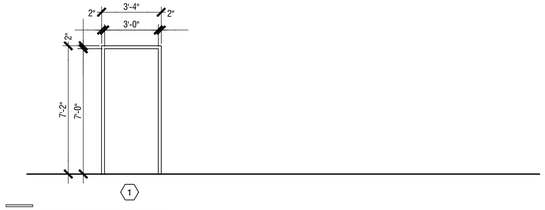
8 DOOR ELEVATIONS - FRONT TOWARDS APPARATUS - 122

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

GROUP

1	3	EA	HINGE
	1	EA	PASSAGE KNOB AND LOCK SET
	1	EA	CLOSER WITH HOLD OPEN FEATURE
	2	EA	ARMOR PLATE AND OR KICK PLATE - SEE REMARKS

3 HARDWARE GROUPS

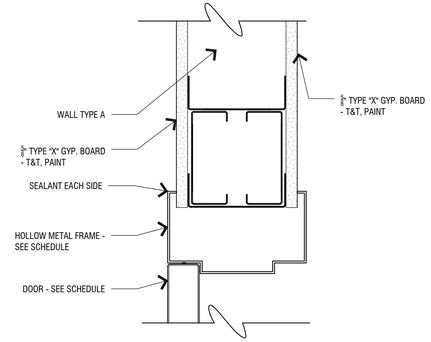


9 DOOR FRAME ELEVATIONS

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

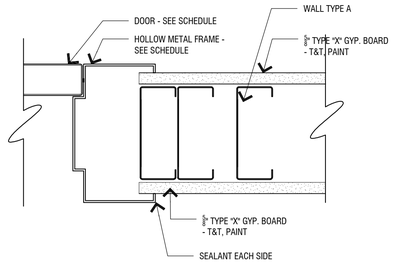
1	ALL DOOR HARDWARE SHALL MEET THE 2018 IBC, 2018 IFC, AND 2010 ADA
2	ARMOR PLATE ON FRONT - 34" X 34"
3	ARMOR PLATE ON BOTH FRONT AND BACK - 34" X 34"
4	PAINTED FINISH TO MATCH EXISTING DOORS

4 DOOR SCHEDULE REMARKS



10 DETAIL - DOOR HEAD

SCALE: 3" = 1'-0"



5 DETAIL - DOOR JAMB

SCALE: 3" = 1'-0"

NUMBER	ROOM NAME	FLOOR FINISH	FLOOR BASE	WALLS NORTH MATERIAL	WALLS NORTH FINISH	WALLS EAST MATERIAL	WALLS EAST FINISH	WALLS SOUTH MATERIAL	WALLS SOUTH FINISH	WALLS WEST MATERIAL	WALLS WEST FINISH	CEILING HEIGHT	CEILING MATERIAL	CEILING FINISH	REMARKS
120	LOCKER ROOM	SC	VWB	GWB	PT	CMU	PT	GWB	PT	GWB	PT	10'-0"	GWB	PT	
121	FACILITIES	SC	VWB	GWB	PT	CMU	PT	GWB	PT	GWB	PT	10'-0"	GWB	PT	FRP AT MOP SINK - 2 SIDES

6 ROOM FINISH SCHEDULE

LVT	LUXURY VINYL TILES
SC	SEALED CONCRETE
GWB	GYPSUM WALLBOARD
VWB	VINYL WALL BASE 4"
PT	PAINT
CMU	CONCRETE MASONRY UNIT

7 ROOM FINISH KEY

MICHAEL TAYLOR ARCHITECTS, INC.
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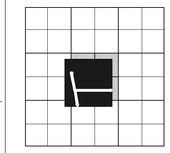


AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

335 WHITE SPAR ROAD PRESCOTT, AZ 86303

109-15-024A - ZONING: BG

MTAI PROJECT NUMBER: 25009

PLOT DATE: MAY 6, 2025

DATE: DESCRIPTION:

DETAILS & SCHEDULE

A-501

GENERAL STRUCTURAL NOTES

(APPLY UNLESS NOTED OTHERWISE ON PLANS/DETAILS)

GENERAL REQUIREMENTS:

1. THESE DRAWINGS, AND THEIR ASSOCIATED STRUCTURAL CALCULATIONS, HAVE BEEN PERFORMED USING STANDARDS OF PROFESSIONAL CARE AND COMPLETENESS NORMALLY EXERCISED UNDER SIMILAR CIRCUMSTANCES BY REPUTABLE STRUCTURAL ENGINEER'S IN THIS OR SIMILAR LOCALITIES. THEY NECESSARILY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE INTERNATIONAL BUILDING CODE CONVENTIONAL FRAMING REQUIREMENTS AND OF INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR FRAMING ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, IT IS UNDERSTOOD THAT THE CONTRACTOR WILL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR ALL MISCELLANEOUS WORK NOT EXPLICITLY SHOWN.

2. THESE DRAWINGS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION SUCH THAT DESIGN LIVE LOAD PER SQUARE FOOT AS STATED HEREIN IS NOT EXCEEDED. OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS USED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, AND SHALL COORDINATE ALL DETAILS, AT NO ADDITIONAL COST TO OWNER.

3. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE GREATER REQUIREMENTS SHALL GOVERN. TYPICAL DETAILS AND NOTES ARE NOT NECESSARILY INDICATED ON THE PLANS, BUT SHALL APPLY NONE-THE-LESS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.

4. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL WITH APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT AND STRUCTURAL ENGINEER.

5. ANY INSPECTIONS, SPECIAL (IBC CHAPTER 17) OR OTHERWISE THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR BY THESE PLANS SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY OR THE BUILDING DEPARTMENT, SITE VISITS BY THE STRUCTURAL ENGINEER DO NOT CONSTITUTE AN OFFICIAL INSPECTION, UNLESS SPECIFICALLY CONTRACTED FOR.

BASIS FOR DESIGN:

1. BUILDING CODE: 2018 EDITION OF THE IBC WITH CITY/COUNTY AMENDMENTS.

   RISK CATEGORY = II

2. VERTICAL LOADS:

LOCATION	LIVE / SNOW LOAD	DEAD LOAD
ROOF	30 PSF	12 PSF

WOOD:

1. SAWN LUMBER: FRAMING LUMBER SHALL COMPLY WITH THE LATEST EDITION OF THE GRADING RULES OF THE WESTERN WOOD PRODUCTS ASSOCIATION (WWPA) OR THE WEST COAST LUMBER INSPECTION BUREAU (WCLIB). ALL SAWN LUMBER SHALL BE STAMPED WITH THE GRADE MARK OF AN APPROVED LUMBER GRADING AGENCY. SAWN LUMBER SHALL HAVE THE FOLLOWING MINIMUM GRADE UNLESS NOTED OTHERWISE IN SCHEDULES:

USE:	MATERIAL:
JOISTS, TOP PLATES AND ALL OTHER SAWN LUMBER	DOUGLAS-FIR NO. 2 OR BETTER
BEAMS AND POSTS	DOUGLAS-FIR NO. 2 OR BETTER

2. PLYWOOD: ALL PLYWOOD SHALL BE C-D OR C-C SHEATHING CONFORMING TO STANDARD PS 1-09. LAY UP PLYWOOD WITH FACE GRAIN IN PERPENDICULAR TO SUPPORTS (ON ROOFS WHERE PLYWOOD IS LAID UP WITH FACE GRAIN PARALLEL TO SUPPORTS, USE A MINIMUM OF 5-PLY PLYWOOD, STAGGER JOINTS). ALL NAILING, COMMON NAILS. BLOCKING AT PANEL EDGES WHERE INDICATED ON PLANS. ALL PLYWOOD SHALL BE OF THE FOLLOWING NOMINAL THICKNESS, SPAN/INDEX RATING AND SHALL BE NAILED AS FOLLOWS UNLESS NOTED OTHERWISE ON THE PLANS:

LOCATION:	NOMINAL THICKNESS:	SPAN INDEX RATING:	EDGE ATTACHMENT:	FIELD ATTACHMENT:
ROOF	½"	32/16	10d AT 6" O.C.	10d AT 12" O.C.

   SCREWS AT FLOOR SHEATHING SHALL BE #8 SCREWS AND SHALL PENETRATE AT LEAST 1½" INTO THE SUPPORTING MEMBER. ALL FLOOR SHEATHING SHALL BE GLUED TO SUPPORTING MEMBERS WITH ANAPA AFG-01 QUALIFIED GLUE.

   PLYWOOD ALTERNATE: AMERICAN PLYWOOD ASSOCIATION PERFORMANCE RATED SHEATHING MAY BE USED AS AN ALTERNATE TO PLYWOOD WITH PRIOR APPROVAL OF OWNER, ARCHITECT AND ROOFER. IT MAY NOT BE USED ON ROOFS WHERE BUILT-UP ROOF SYSTEM IS TO BE GUARANTEED BY ROOFER. RATED SHEATHING SHALL COMPLY WITH DOC PS 2-10 EXPOSURE 1, AND SHALL HAVE A SPAN RATING EQUIVALENT TO OR BETTER THAN THE PLYWOOD IT REPLACES. ATTACHMENT AND THICKNESS (WITHIN 1/32") SHALL BE THE SAME AS THE PLYWOOD IT REPLACES. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

3. GLUED-LAMINATED BEAMS (GLULAM): GLUED-LAMINATED BEAMS SHALL BE DOUGLAS FIR COMBINATION AT 24F-V4 AT SIMPLE SPAN BEAMS AND 24F-V8 AT CANTILEVERED BEAMS WITH THE FOLLOWING MINIMUM PROPERTIES: FB = 2,400 PSI, FV = 190 PSI, FC (PERPENDICULAR) = 650 PSI, E =1,800 KSI. ALL BEAMS SHALL BE FABRICATED USING WATERPROOF GLUE. FABRICATION AND HANDLING PER LATEST AITC AND WCLA STANDARDS. BEAMS TO BEAR GRADE STAMP AND AITC STAMP AND CERTIFICATE. CAMBER AS SHOWN ON DRAWINGS. STANDARD CAMBER IS BASED ON A RADIUS OF CURVATURE OF 2000 FEET.

4. SILL PLATES RESTING ON CONCRETE OR MASONRY WITHIN 12" OF SOIL SHALL BE OF TREATED FIR OR FOUNDATION GRADE REDWOOD. SHEAR WALLS AND EXTERIOR WALL SILLS AT CONCRETE SLAB SHALL HAVE A MINIMUM OF (2) ½"ø ANCHOR BOLTS PER PIECE. PROVIDE ANCHOR BOLT AT 9" MAXIMUM, 4" MINIMUM FROM THE END OF EACH PIECE AT SPLICE OR END OF WALL. MAXIMUM ANCHOR BOLT SPACING SHALL BE 72" ON CENTER UNLESS NOTED OTHERWISE ON PLANS OR DETAILS. ALL ANCHOR BOLTS (OTHER THAN BOLTS FOR HOLDOWNS) SHALL EMBED 7" INTO CONCRETE. ANCHOR BOLTS FOR HOLDOWNS SHALL NOT BE CONSIDERED AS PART OF REQUIRED ANCHOR BOLTS ON SHEAR WALLS. ALL EXTERIOR WALLS SHALL BE SECURED WITH MINIMUM ANCHOR BOLTS. INTERIOR WALLS MAY BE SECURED TO CONCRETE WITH EITHER ANCHOR BOLTS OR POWER DRIVEN SHOT PINS UNLESS NOTED OTHERWISE ON PLANS.

5. GENERAL: DO NOT NOTCH OR DRILL JOISTS, BEAMS OR LOAD BEARING STUDS WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT. DOUBLE UP FLOOR JOISTS AND BLOCKING UNDER PARTITIONS. PROVIDE 2" (NOMINAL) SOLID BLOCKING AT SUPPORTS OF ALL JOISTS. UNLESS NOTED OTHERWISE ON PLANS/DETAILS PROVIDE 2X SOLID BLOCKING AT MID-HEIGHT OF BEARING STUD WALLS. ALL NAILING NOT NOTED SHALL BE ACCORDING TO IBC TABLE 2304.9.1. JOIST HANGERS AND OTHER MISCELLANEOUS FRAMING ANCHORS SHALL BE AS MANUFACTURED BY SIMPSON STRONG-TIE COMPANY, INC. OR OTHER MANUFACTURER WITH CURRENT ICBO APPROVAL.

6. BOLTING: ALL BOLTS IN WOOD CONNECTIONS SHALL CONFORM TO ASTM A307. BOLTS SHALL BE INSTALLED IN HOLES BORED WITH A BIT 1/16" LARGER THAN THE ø (DIAMETER) OF THE BOLT. BOLTS AND NUTS SEATING ON WOOD SHALL HAVE CUT STEEL WASHERS UNDER HEADS AND NUTS. NICK THREADS TO PREVENT LOOSENING.

STEEL:

1. MATERIALS: ROLLED W SHAPES, SHALL CONFORM TO ASTM A992 (FY=50 KSI). ALL OTHER STRUCTURAL STEEL SHAPES, ROLLED SECTIONS, BARS AND PLATES SHALL CONFORM TO ASTM A36 (FY = 36 KSI). ALL PIPE STEEL SHALL BE ASTM A501 (FY = 36 KSI) OR ASTM A53, TYPE E OR S, GRADE B (FY = 35 KSI). ALL TUBULAR STEEL SHALL BE ASTM A500 (FY = 46 KSI).

2. ALL BOLTS AND STUDS SHALL BE ASTM A307, UNLESS NOTED OTHERWISE. ALL EXPANSION BOLTS TO HAVE CURRENT ICBO RATING FOR MATERIAL INTO WHICH INSTALLATION TAKES PLACE. HEADED STUDS SHALL CONFORM TO ALL REQUIREMENTS OF THE LATEST EDITION OF THE "RECOMMENDED PRACTICES FOR STUD WELDING" AND THE "STRUCTURAL WELDING CODE" PUBLISHED BY AWS. ALL BOLTS, ANCHOR BOLTS, EXPANSION BOLTS, ETC. SHALL BE INSTALLED WITH STEEL WASHERS AT FACE OF WOOD OR AT SLOTTED HOLES IN STEEL SECTIONS.

3. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.

4. WELDING SHALL BE BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. ALL WELDING SHALL USE E70 SERIES LOW HYDROGEN RODS UNLESS NOTED OTHERWISE. ALL WELDING PER LATEST AMERICAN WELDING SOCIETY STANDARDS. ALL WELDS ON DRAWINGS ARE SHOWN AS SHOP WELDS. CONTRACTOR MAY SHOP WELD OR FIELD WELD AT HIS DISCRETION. ALL FULL PENETRATION WELDS SHALL BE TESTED AND CERTIFIED BY AN INDEPENDENT TESTING LABORATORY.

5. STEEL TO STEEL BOLTED CONNECTIONS: HIGH STRENGTH BOLTS SHALL BE ASTM A325N AND SHALL BE INSTALLED AS BEARING-TYPE CONNECTIONS WITH THREADS INCLUDED IN SHEAR PLANE (TYPE "N" CONNECTION). BOLTS MAY BE TIGHTENED USING ANY AISC APPROVED METHOD.

6. DRYPACK SHALL BE 5,000 PSI FIVE STAR NON-SHRINK GROUT OR EQUIVALENT. INSTALL DRYPACK UNDER BEARING PLATES BEFORE FRAMING MEMBER IS INSTALLED. AT COLUMNS, INSTALL DRYPACK UNDER BASE PLATES AFTER COLUMN HAS BEEN PLUMBED BUT PRIOR TO FLOOR OR ROOF INSTALLATION.

SPECIAL INSPECTION ITEMS:

1. SPECIAL INSPECTION IS NOT REQUIRED AS FOLLOWS:

TYPE OF WORK:	REQUIRED:	REMARKS:
CONCRETE FOUNDATIONS	NO	FOUNDATION IS EXISTING
STEEL TO STEEL BOLTED CONNECTIONS	YES	STEEL CONNECTIONS ARE EXISTING.

SPECIAL INSPECTIONS NOT LISTED ABOVE ARE NOT REQUIRED BY FSE HOWEVER, ADDITIONAL SPECIAL INSPECTIONS MAY BE REQUIRED BY THE BUILDING OFFICIAL.

2. DESIGNATION OF SPECIAL INSPECTOR: A SPECIAL INSPECTION CERTIFICATE – CORRESPONDING TO THE REQUIREMENTS IN THE TABLE ABOVE HAS BEEN PROVIDED WITH THESE DRAWINGS BY FSE FOR PERMITTING PURPOSES.

   A. ACCORDING TO THE SI CERTIFICATE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF THE STRUCTURAL ENGINEER OF RECORD – FROST STRUCTURAL ENGINEERING(FSE) (928)776-4757. FSE IS NOT RESPONSIBLE FOR SPECIAL INSPECTIONS IF WE ARE NOT CONTACTED OR CONTRACTED TO DO SO.

   B. TO SCHEDULE ANY SPECIAL INSPECTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SPECIAL INSPECTOR AT LEAST ONE DAY IN ADVANCE.

   C. AN ALTERNATE SPECIAL INSPECTOR MAY BE USED BY OBTAINING A NEW SI CERTIFICATE, AND MAKE THE NECESSARY NOTIFICATIONS TO ALL PARTIES INVOLVED. THE ALTERNATE SPECIAL INSPECTOR SHALL BE AN ARIZONA LICENSED CIVIL OR STRUCTURAL ENGINEER OR AN ICC CERTIFIED SPECIAL INSPECTOR.

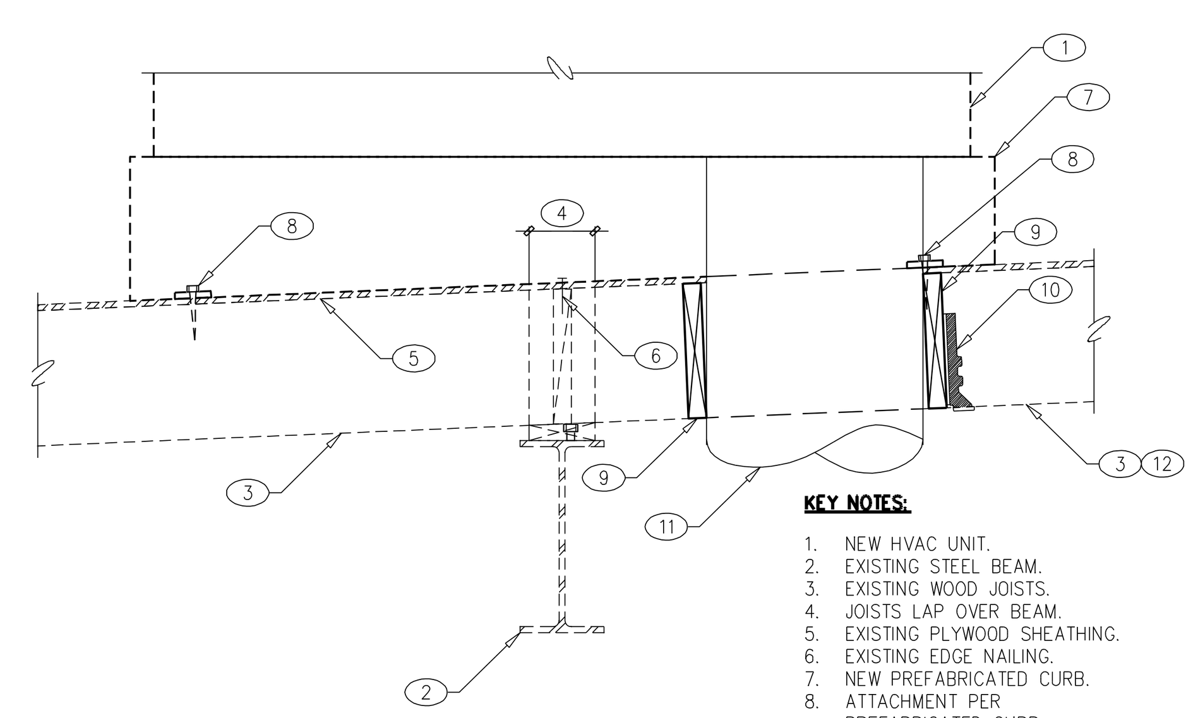
   D. FOR GEOTECHNICAL ITEMS LISTED ABOVE, THE SPECIAL INSPECTOR SHALL BE, OR WORK UNDER THE DIRECT SUPERVISION OF A GEOTECHNICAL ENGINEER OR THE BUILDING OFFICIAL.

3. QUALITY ASSURANCE PROGRAM:

   A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED TO BE CERTAIN IT CONFORMS WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS.

   B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE STRUCTURAL ENGINEER OF RECORD. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, TO THE DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

   C. UPON COMPLETION OF THE ASSIGNED WORK THE STRUCTURAL ENGINEER SHALL COMPLETE AND SIGN THE APPROPRIATE FORMS CERTIFYING THAT TO THE BEST OF HIS KNOWLEDGE THE WORK IS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE INTERNATIONAL BUILDING CODE.



KEY NOTES:

1. NEW HVAC UNIT.
2. EXISTING STEEL BEAM.
3. EXISTING WOOD JOISTS.
4. JOISTS LAP OVER BEAM.
5. EXISTING PLYWOOD SHEATHING.
6. EXISTING EDGE NAILING.
7. NEW PREFABRICATED CURB.
8. ATTACHMENT PER PREFABRICATED CURB MANUFACTURER.
9. NEW WOOD BEAM.
10. SIMPSON LUS210 TYPE HANGER.
11. NEW HVAC DUCT(S).
12. CUT (3) JOISTS AT 12" O.C. – MAXIMUM.

201 NEW HVAC UNIT AT EXISTING STEEL BEAM

NO SCALE

DRAWING INDEX

SHEET	DESCRIPTION	DETAILS
S-100	GENERAL STRUCTURAL NOTES	200-SERIES
S-200	PARTIAL ROOF FRAMING PLAN	---

JOB NO.: 2025-049	PROJECT MANAGER: AGK	CAD OPERATOR: AGK

FROST STRUCTURAL ENGINEERING
1678 Oaklawn Drive, Suite C
Prescott, Arizona 86305
phone: 928.776.4757
info@frost-structural.com
www.frost-structural.com

27341 RICHARD K. FROST 5/13/25
EXPIRES 9/30/2026

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 .445 .0626 WWW. MTAI .NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

335 WHITE SPAR ROAD PRESCOTT, AZ 86303

109-15-024A

ZONING: BG

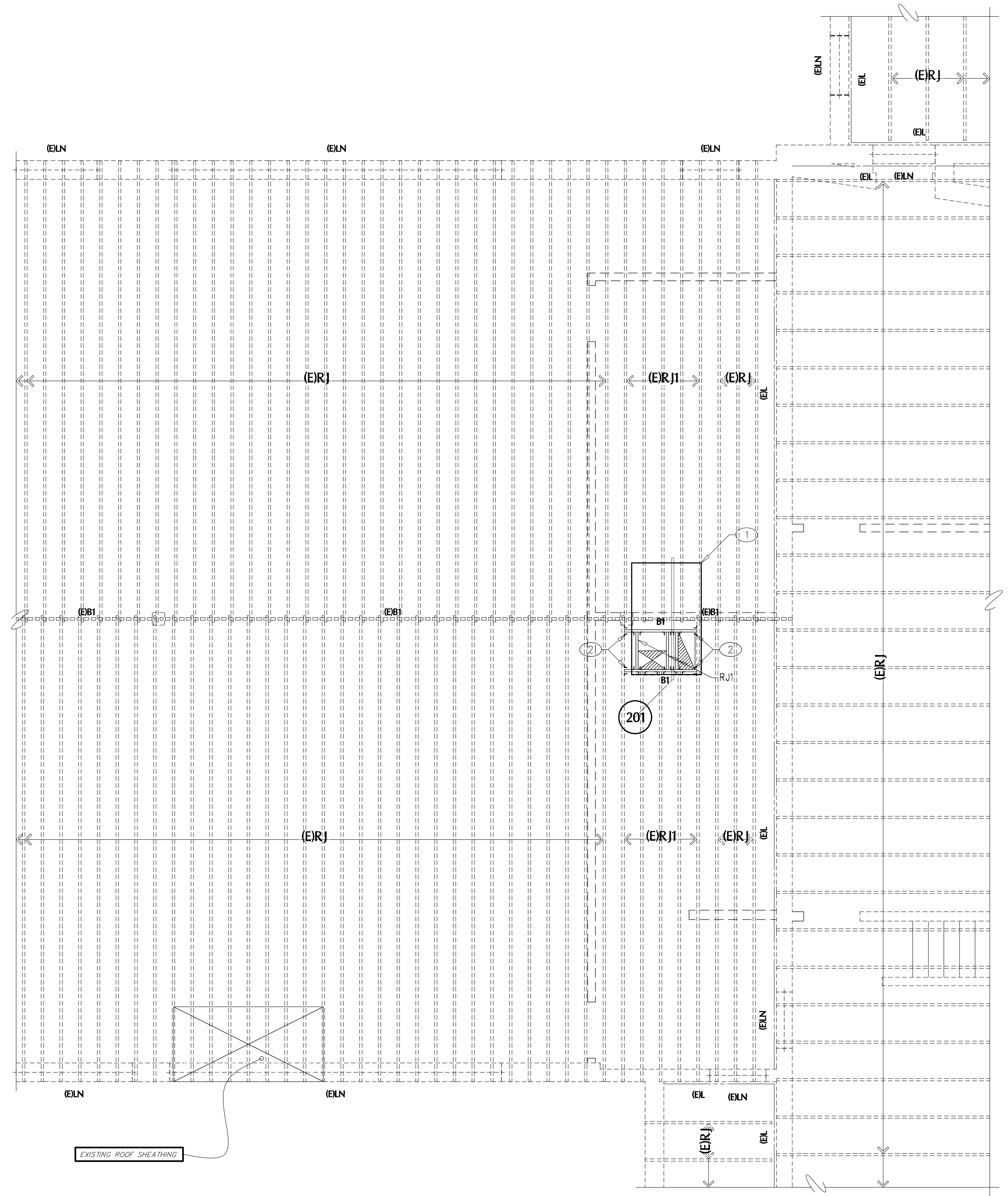
MTAI PROJECT NUMBER 25009

PLOT DATE: 5/13/25

DATE: DESCRIPTION:

GENERAL STRUCTURAL NOTES

S-100



PARTIAL ROOF FRAMING PLAN

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

PLAN KEYNOTES

1. APPROXIMATE LOCATION OF NEW 750 LB HVAC UNIT.
2. SIMPSON LUS210 TYPE HANGER (OR SIMPSON HU9 IF LVL IS USED).

WALL SCHEDULE

NOTE: SEE PLAN SCHEDULES, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL INFORMATION.

AS SEEN ON PLANS	INDICATES–
(dashed)	EXISTING WALL BELOW.
(long dashed)	NON-STRUCTURAL WALL BELOW.

ROOF FRAMING PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH ALL ARCHITECTURAL DRAWINGS.
2. FOR LOCATION OF DETAILS SEE SHEET INDEX ON SHEET S-100.
3. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THIS PROJECT.
4. RJ1, RJ2, ETC. – AS SHOWN ON PLAN INDICATES A ROOF JOIST. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
5. B1, B2, ETC. – AS SHOWN ON PLAN INDICATES A BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
6. (E)RJ1, (E)RJ2, ETC. – AS SHOWN ON PLAN INDICATES EXISTING ROOF JOISTS. SEE ROOF JOIST SCHEDULE FOR ADDITIONAL INFORMATION.
7. (E)B1, (E)B2, ETC. – AS SHOWN ON PLAN INDICATES AN EXISTING BEAM. SEE BEAM SCHEDULE FOR ADDITIONAL INFORMATION.
8. (E)L – AS SHOWN ON PLAN INDICATES AN EXISTING LEDGER.
9. (E)LN – AS SHOWN ON PLAN INDICATES AN EXISTING LINTEL.
10. (E)RJ – AS SHOWN ON PLAN INDICATES EXISTING ROOF JOISTS.
11. (dashed box) – AS SHOWN ON PLAN INDICATES HVAC EQUIPMENT ON ROOF OR IN ATTIC SPACE.

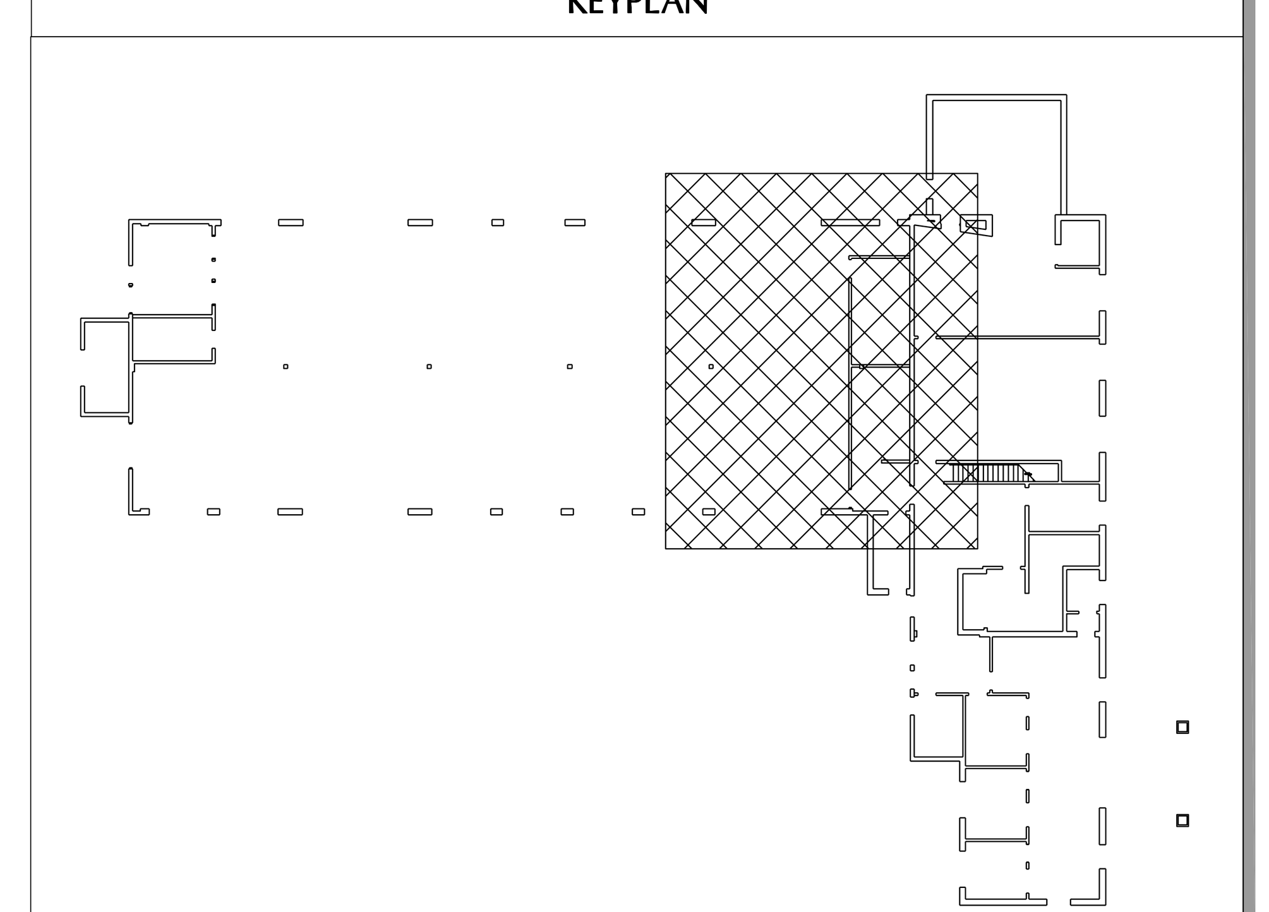
ROOF JOIST (RJ) SCHEDULE

MARK	JOIST	REMARKS
RJ1	2X12	PLACEMENT AS SHOWN ON PLAN
(E)RJ1	(2)2X12 AT 12" O.C.	---

BEAM (B) SCHEDULE

MARK	SIZE	REMARKS
B1	2X12 DF#2	OR 1.75"X11.25" 26F 2.0E LVL
(E)B1	EXISTING W16X36	---

KEYPLAN



JOB NO.: 2025-049	PROJECT MANAGER: AGK	CAD OPERATOR: AGK

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ROOF FRAMING PLAN

S-200

PACKAGED AIR-CONDITIONER SCHEDULE:

TAG	MANUF.	MODEL NUMBER	FAN PERFORMANCE (CFM)	TOT. COOLING CAPACITY (MBH)	SEN. COOLING CAPACITY (MBH)	ARI COOLING EFFICIENCY (SEER)	HEATING CAPACITY			ELECTRICAL: 208V/3Ø (FLA/MCA/MOCP)	WEIGHT (LBS)	NOTES:
							FUEL	INPUT (MBH)	EFFICIENCY			
AC-4	CARRIER	48GEEM05A2A5	1600 @ 0.5" ESP	44.28	40.61	17.2	GAS	83.6	80% AFUE	21.8 / 28 / 40	750	1,2,4,5,6

NOTES:
1. DESIGN CONDITIONS: R454B COOLING MODE = 80F/67F (DB/WB) EAT, 105F AMBIENT, 5100' ELEVATION.
2. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS
3. PROVIDE MANUAL OSA INTAKE. BALANCE TO CFM RATE INDICATED ON PLANS.
4. PROVIDE 14" FACTORY ROOF CURB, 2" FILTER RACK, PROGRAMMABLE THERMOSTAT (WIFI ENABLED AND REMOTE TEMPERATURE SENSOR CAPABILITY).

IECC CALCULATED COOLING LOAD

CALCULATED LOAD:
41.2 MBH SENSIBLE

PER CARRIER HOURLY ANALYSYS PROGRAP (HAP) IN ACCORDANCE WITH THE 2012 IECC

PROVIDED CAPACITY:
44.28 MBH SENSIBLE

COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2012 IECC
Project Title:	Prescott Fire Station #71
Location:	Prescott, Arizona
Climate Zone:	4b
Project Type:	Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Mechanical Systems List

Quantity	System Type & Description
1	AC-4 (Single Zone): Heating: 1 each - Central Furnace, Gas, Capacity = 83 kBtu/h Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE) Cooling: 1 each - Single Package DX Unit, Capacity = 44 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: High Efficiency Equipment Proposed Efficiency = 17.20 SEER, Required Efficiency = 15.60 SEER Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: FAN 1 Supply, Constant Volume, 1600 CFM, 0.5 motor nameplate hp

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

Project Title: Prescott Fire Station #71 Report date: 04/22/25
Data filename: Page 1 of 7

MECHANICAL GENERAL NOTES

SEE ARCHITECTURAL DRAWINGS FOR ANY NECESSARY SCREENING OF EQUIPMENT.

SEE ELECTRICAL DRAWINGS FOR WIRING. MECHANICAL CONTRACTOR SHALL VERIFY AND FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS INCLUDING VOLTAGE AND PHASE. PRIOR TO ORDERING ANY EQUIPMENT.

SUPPLY FANS FOR ALL AIR CONDITIONING EQUIPMENT ARE TO BE WIRED TO RUN AT ALL TIMES THE BUILDING IS OCCUPIED, TO PROVIDE FRESH AIR AND MAKEUP AIR REQUIREMENTS.

MECHANICAL EQUIPMENT LIST

EF-1 GREENHECK SP-A200 CEILING EXHAUST FAN WITH FACTORY ROOF CAP WITH BDD, 150 CFM AT .2" ESP, 1 AMP, 120 VOLT, 1 PHASE, 1.0 SONES. PROVIDE SPEED CONTROLLER IN FAN CASING.

CD-1 TITUS SERIES TDC CEILING DIFFUSER WITH OBD, STEEL CONSTRUCTION, LAY-IN, ROUND NECK ADAPTOR, OFF-WHITE.

RG-1 TITUS SERIES 350 RL RETURN GRILLE, 3/4" SPACING, LAY-IN, STEEL CONSTRUCTION.

1 MECHANICAL SCHEDULES

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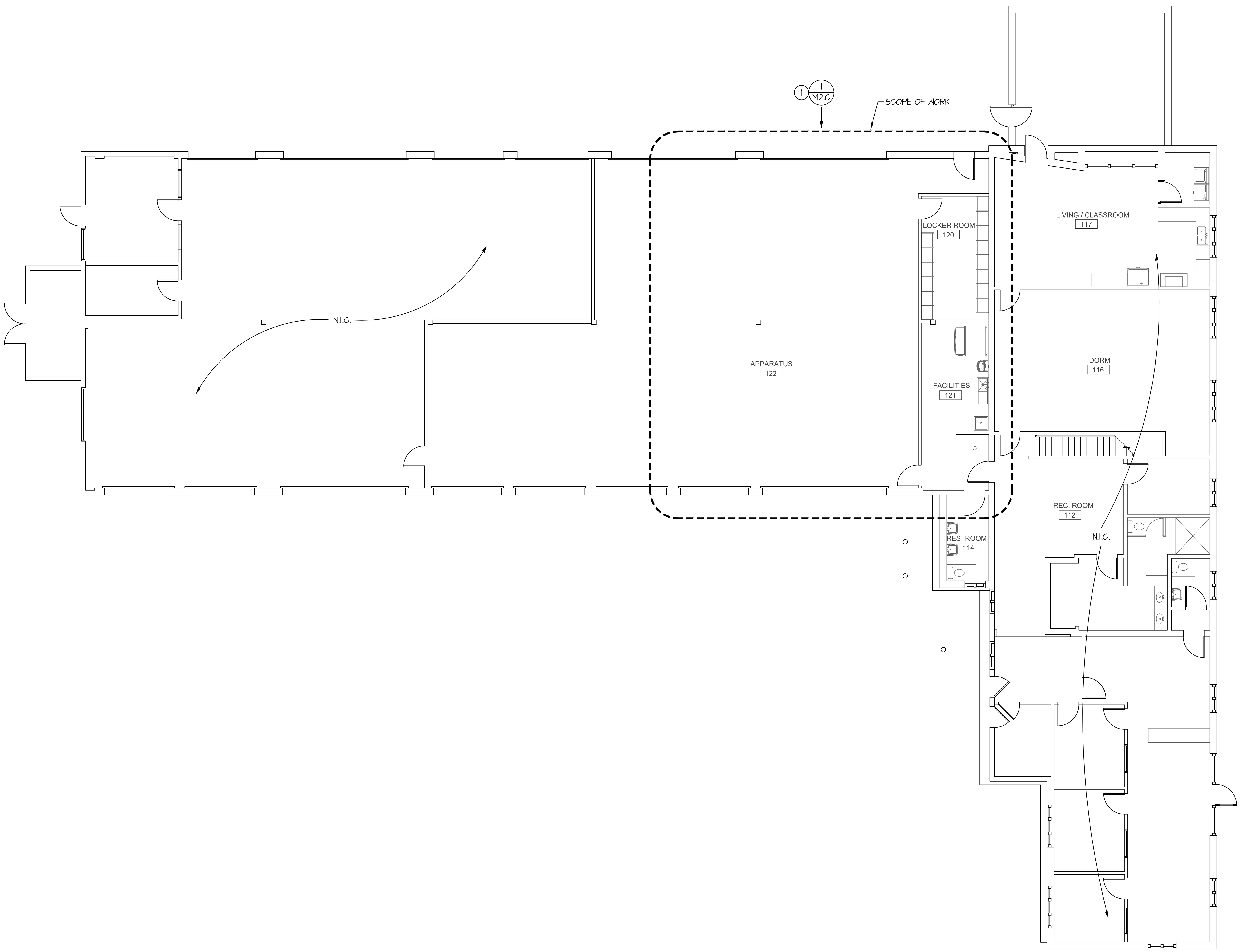
MECHANICAL SCHEDULES

M0

MECHANICAL KEYNOTES

1 SEE ENLARGED PLAN ON SHEET INDICATED, TYPICAL.

NOTE: NOT ALL KEYNOTES MAY BE USED.



1 MECHANICAL BUILDING PLAN

NORTH

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

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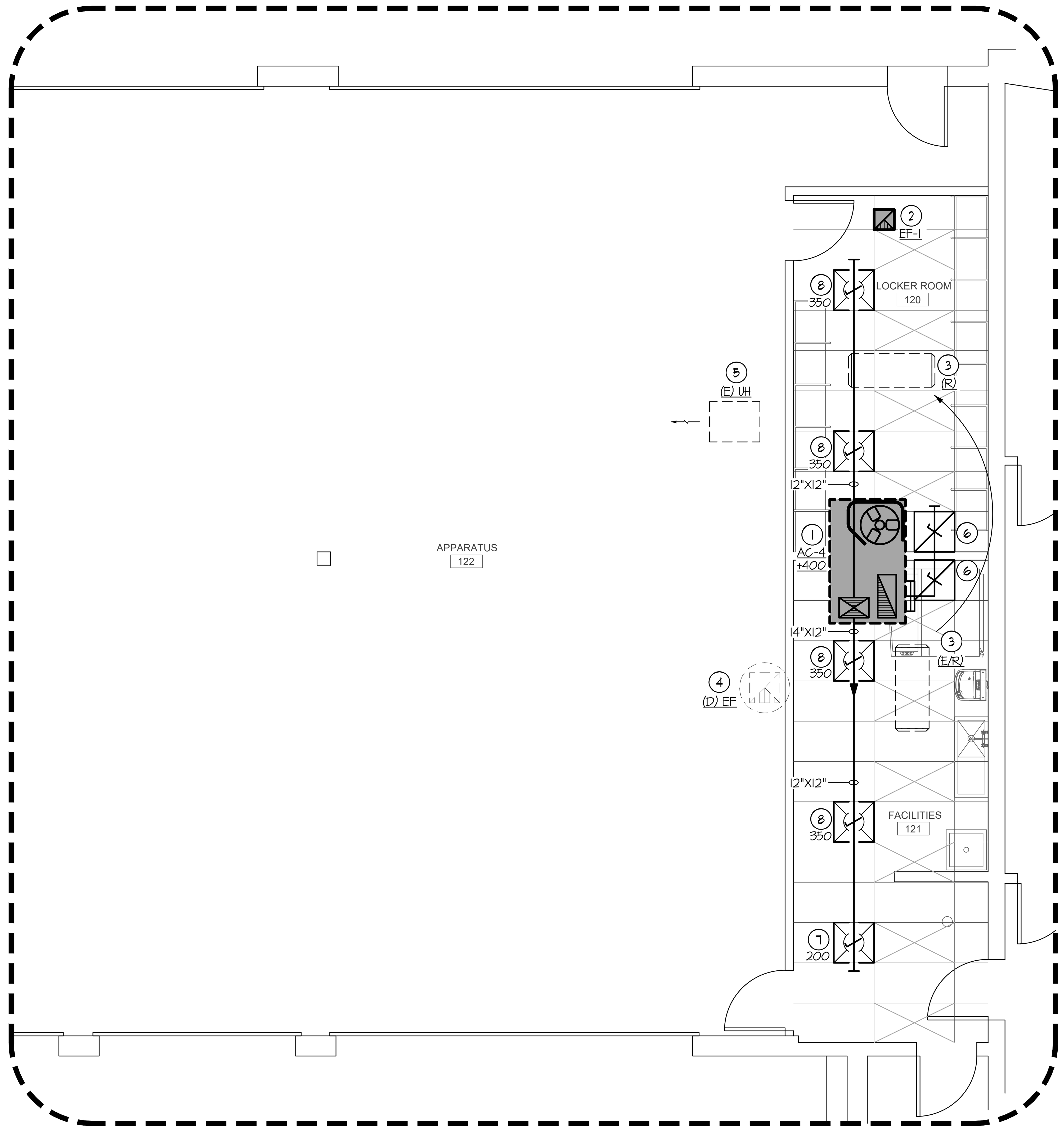
MECHANICAL BUILDING PLAN

M1.0



1 MECHANICAL FLOOR PLAN

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

MECHANICAL KEYNOTES

1 AIR CONDITIONING UNIT (AC-#) MOUNTED ON FACTORY ROOF CURB WITH FULL SIZE DUCTS THRU ROOF WITH FLEX CONNECTORS, PROVIDE MANUAL OSA INTAKE, BALANCE TO CFM RATE INDICATED ON PLANS.

2 EXHAUST FAN (EF-#), IN CEILING WITH FULL SIZE DUCT THRU ROOF TO CAP, MINIMUM OF 10' FROM OUTSIDE AIR INTAKE.

3 EXISTING MECHANICAL EQUIPMENT TO BE RELOCATED TO NEW LOCATION INDICATED ON PLANS, MOUNT BELOW CEILING, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT, FIELD VERIFY EXISTING CONDITIONS.

4 DEMO EXISTING MECHANICAL FIXTURE, FIELD VERIFY EXISTING CONDITIONS.

5 EXISTING MECHANICAL FIXTURE TO REMAIN, SHOWN FOR REFERENCE ONLY, FIELD VERIFY EXISTING CONDITIONS.

6 24" X 24" RG-1, 16" ROUND NECK.

7 24" X 24" CD-1, 8" ROUND NECK, 4-WAY THROW.

8 24" X 24" CD-1, 10" ROUND NECK, 4-WAY THROW.

NOTE: NOT ALL KEYNOTES MAY BE USED.

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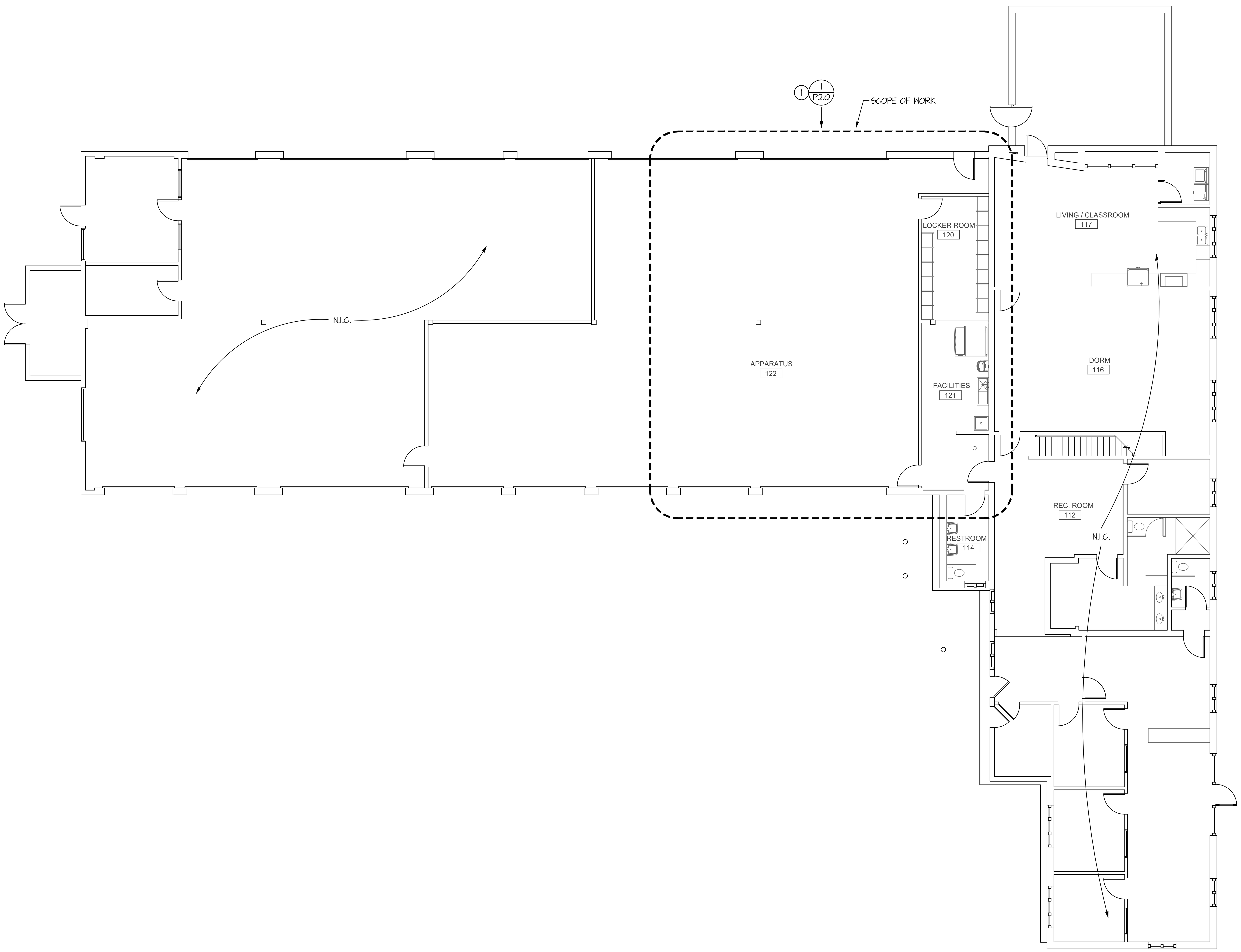
MECHANICAL FLOOR PLAN

M2.0

THE CONSTRUCTION DOCUMENT SET FOR THIS PROJECT SHALL INCLUDE THIS DRAWING SHEET, & ALL OTHER SHEETS & ASSOCIATED DOCUMENTS LISTED ON THE DRAWING INDEX ON COVER SHEET, & ANY OTHER DOCUMENTATION AS SUPPLIED BY THE ARCHITECT & CONSULTING ENGINEERS. ALL OF THE PROJECT DOCUMENTS REPRESENT AN ALL ENCOMPASSING WHOLE, & SHALL BE USED IN THEIR ENTIRETY FOR BIDDING & CONSTRUCTION PURPOSES



NORTH

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

1 PLUMBING BUILDING PLAN

PLUMBING KEYNOTES

1 SEE ENLARGED PLAN ON SHEET INDICATED, TYPICAL.

NOTE: NOT ALL KEYNOTES MAY BE USED.

PLUMBING GENERAL NOTES

1. SOLDERS & FLUX HAVING A LEAD CONTENT IN EXCESS OF TWO TENTHS OF ONE PERCENT SHALL NOT BE USED IN THE INSTALLATION OR REPAIR OF ANY FACILITIES PROVIDING WATER FOR HUMAN CONSUMPTION WHICH ARE CONNECTED TO PUBLIC WATER SYSTEMS.
2. EXPOSED TRIM AND APPURTENANCES WILL BE CHROME PLATED.
3. PROVIDE LOOSE KEY OR SCREWDRIVER STOPS BALL VALVES AT ALL DOMESTIC WATER CONNECTIONS TO FIXTURES.
4. AIR GAPS TO BE A MINIMUM OF 2 PIPE SIZE DIAMETERS ABOVE RIM OF RECEPTOR.
5. HOT WATER SHALL BE THE LEFT FITTING AT ALL FAUCETS.

WATER CALCULATION

WATER CALCULATION

NEW FIXTURE UNITS	=	3.0
DEMO'D FIXTURE UNITS	=	6.5
NET CHANGE	=	-3.5

THE TOTAL DEMO'D FIXTURE UNITS IS GREATER THAN THE NEW FIXTURE UNITS THEREFORE NO CHANGES ARE REQUIRED TO THE EXISTING METER & BUILDING SUPPLY.

PLUMBING FIXTURE LIST

MS FIAT MODEL MSB-2424 MOP SERVICE BASIN WITH 830-AA SERVICE FAUCET WITH VACUUM BREAKER, SILICONE SEALANT, HOSE AND HOSE BRACKET, MOP HANGER, ALTERNATE STRAINER, AND ALUMINUM BUMPER GUARD.

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\\BTE_SERVER\BTE JOB FILES\2025\25038 PRESCOTT FIRE STATION 71\25038MPB.DWG APR 23, 2025 - 11:12AM BY SKYLAR

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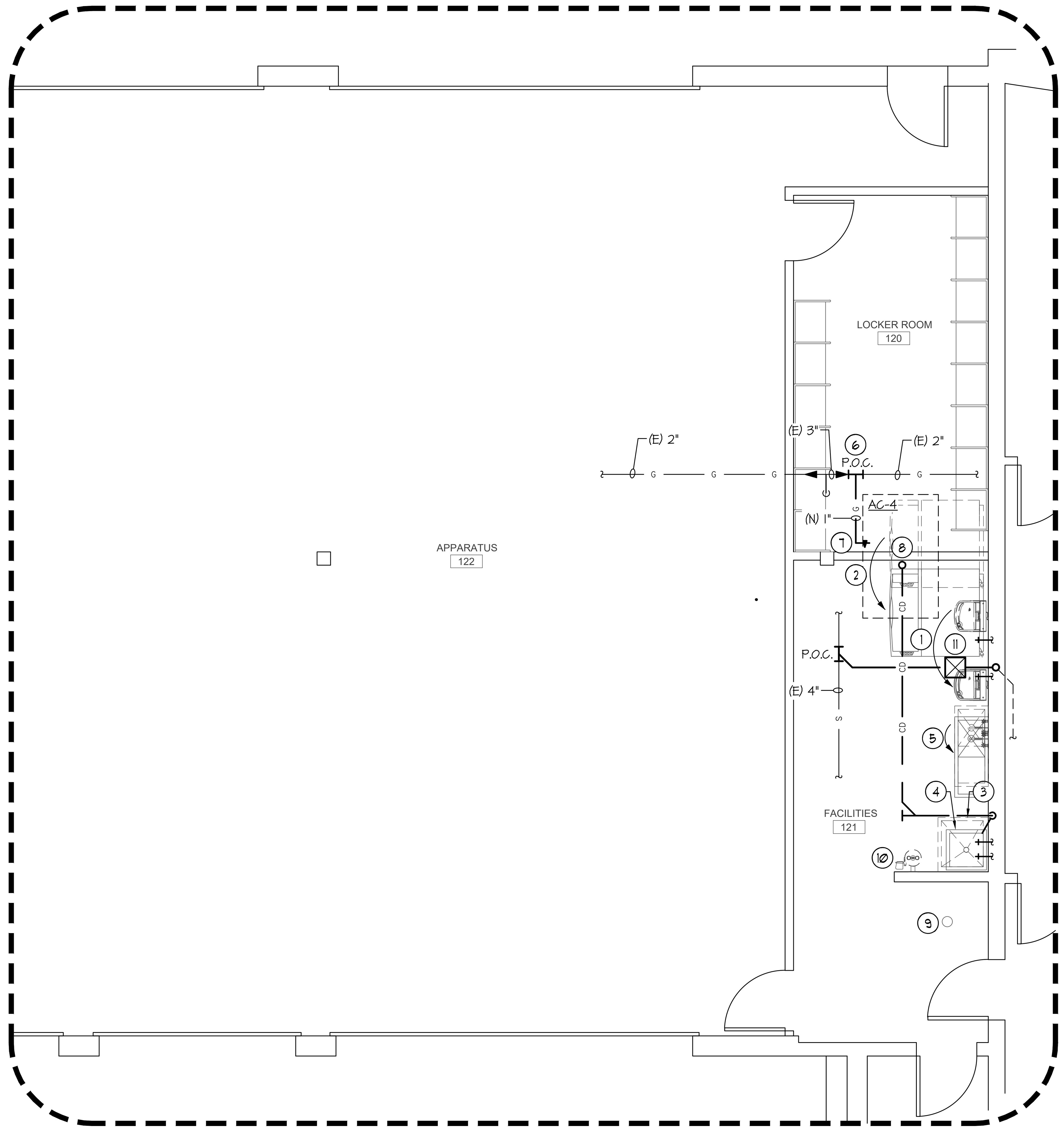
PLUMBING BUILDING PLAN

P1.0



1 ENLARGED PLUMBING FLOOR PLAN

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

NORTH

PLUMBING KEYNOTES

1 CONTRACTOR TO RELOCATE EXISTING ELECTRIC DRINKING FOUNTAIN TO NEW LOCATION INDICATED ON PLANS, PROVIDE (N) 1/2" DCW, TO TIE TO (E) 1/2" DCW FROM PREVIOUS FIXTURE LOCATION, EXTEND PLUMBING AS REQUIRED, 2" IW TO FLOOR SINK WITH AIR GAP, FIELD VERIFY EXISTING CONDITIONS.

2 CONTRACTOR TO RELOCATE ICE MACHINE TO NEW LOCATION INDICATED ON PLANS, PROVIDE (N) 1/2" DCW, TO TIE TO (E) 1/2" DCW FROM PREVIOUS FIXTURE LOCATION, EXTEND PLUMBING AS REQUIRED, 2" IW TO FLOOR SINK WITH AIR GAP, FIELD VERIFY EXISTING CONDITIONS.

3 DEMO EXISTING SHOWER BASE, EXISTING PLUMBING TO REMAIN FOR FUTURE FIXTURE IN SAME LOCATION, FIELD VERIFY EXISTING CONDITIONS.

4 MOP SINK (MS), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V TIE TO EXISTING PLUMBING FROM PREVIOUS FIXTURE IN SAME LOCATION, FIELD VERIFY EXISTING CONDITIONS.

5 RELOCATE EXISTING SINK TO NEW LOCATION INDICATED ON PLANS, EXTEND EXISTING PLUMBING AS REQUIRED, FIELD VERIFY EXISTING CONDITIONS.

6 TIE NEW 1" NATURAL GAS PIPE TO (E) 2" NATURAL GAS PIPE, FIELD VERIFY EXISTING CONDITIONS.

NOTE: SYSTEM HAS BEEN PREVIOUSLY SIZED FOR FUTURE MAKE-UP AIR UNITS*
TOTAL ALLOWABLE ADDITIONAL LOAD: 1200 CFH*
TOTAL ADDITIONAL LOAD ADDED: 144 CFH

PER AVAILABLE DRAWINGS DATED 8-31-90

7 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.

8 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, FIELD ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' AT MOP SINK WITH AIR GAP.

9 EXISTING PLUMBING FIXTURE TO REMAIN, SHOWN FOR REFERENCE ONLY.

10 DEMO EXISTING PLUMBING FIXTURE, CAP/SEAL AT SOURCE, FIELD VERIFY EXISTING CONDITIONS.

11 FLOOR SINK (FS), 2" W, & 1 1/2" V. PROVIDE PROSET TRAP GUARD INSERT. ALL INDIRECT PIPING SHALL BE TRAPPED AND DISCHARGE TO FLOOR SINK WITH A MINIMUM AIR GAP. FLOOR SINK MUST BE ACCESSIBLE FOR CLEANING. FIELD ROUTE TO TIE TO (E) 4" WASTE MAIN AND (E) 3" VTR.

NOTE: NOT ALL KEYNOTES MAY BE USED.

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Registered Professional Engineer (Mechanical)
49968
JUSTIN S. BOWIE
Date Signed 4/23/25
ARIZONA, USA
Expires 9/30/27

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ENLARGED PLUMBING FLOOR PLAN

P2.0

SPECIFICATIONS

15010 GENERAL PROVISIONS:

1. SCOPE: THIS SECTION ESTABLISHES AND DESCRIBES REQUIRED STANDARDS OF QUALITY AND PERFORMANCE FOR PRODUCTS, SYSTEMS AND METHODS ENCOMPASSED BY DIVISION 15000. THIS SECTION ALSO SUMMARIZES THE VARIOUS SYSTEMS TO BE INSTALLED UNDER DIVISION 15000.

15010.1 SPECIAL CONDITIONS:

1. THE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO COVER SYSTEMS WHICH WILL FIT THE AVAILABLE SPACE, WHICH WILL NOT INTERFERE WITH THE GENERAL STRUCTURAL DESIGN. CAREFULLY EXAMINE THE DRAWINGS FOR ALL BRANCHES OF WORK AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL AND APPARATUS INTO THE BUILDING.NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR QUESTIONS IMMEDIATELY.

2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT/ ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. ANY EXTRA EXPENSES AS A RESULT OF FAILURE TO ADEQUATELY REVIEW THE EXISTING CONDITIONS WILL BE BORNE BY THE CONTRACTOR.

3. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.

15010.2 REGULATIONS, CODES AND PERMITS:

GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAX FEES AND OTHER COSTS IN CONNECTION WITH WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL REGULATING AUTHORITIES HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR WORK AND DELIVER SAME TO ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR WORK.

15010.3 COORDINATION OF WORK:

DRAWINGS ARE DIAGRAMMATIC FOR PIPING, CONDUITS AND DUCTWORK THAT IS NOT INDICATED IN DETAIL. SIZES OF PIPING, CONDUITS, AND DUCTWORK AND THEIR LOCATIONS ARE INDICATED AS INSIDE CLEAR DIMENSIONS, BUT IS NOT INTENDED TO SHOW EVERY OFFSET OF FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. THE ALIGNMENT OF PIPING, CONDUIT, OR DUCTWORK SHALL BE VARIED FROM THAT INDICATED ON THE DRAWINGS WITHOUT EXTRA EXPENSE TO THE OWNER WHERE NECESSARY TO AVOID STRUCTURAL OR MECHANICAL DIFFICULTIES, OR TO AVOID THE WORK OF ANY OTHER TRADES.

15010.4 WORKMANSHIP:

PERFORM LABOR IN A THOROUGH AND COMPLETE WORKMANLIKE MANNER AND WITH ALL REASONABLE RAPIDITY TO THE SATISFACTION OF THE ARCHITECT.

15010.5 EXCAVATION AND BACKFILLING:

PERFORM ALL NECESSARY EXCAVATION, SHORING AND BACKFILLING REQUIRED FOR THE PROPER LAYING OF ALL PIPES AND CONDUITS INSIDE THE BUILDING AND PREMISES, AND OUTSIDE AS MAY BE NECESSARY.

15010.6 ALTERNATES:

1. ALTERNATE FIXTURES AND EQUIPMENT WILL BE ACCEPTED WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.

2. ALTERNATE MATERIALS WILL ONLY BE ACCEPTABLE WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER.

3. ADDITIONAL ENGINEERING REQUIREMENTS DUE TO ALTERNATE MATERIALS, FIXTURES OR EQUIPMENT WILL BE PERFORMED AT ENGINEERS STANDARD HOURLY RATES WITH A MINIMUM $250.00 PAYABLE BY CONTRACTOR PRIOR TO PERFORMANCE OF WORK.

15010.7 CUTTING AND PATCHING:

1. CUT COMPLETED CONSTRUCTION WORK ONLY IF SLEEVES, OPENING, CHASES, ETC., WERE INADVERTENTLY OMITTED AND ONLY WITH THE SPECIFIED APPROVAL OF THE ARCHITECT. IN NO CASE SHALL REINFORCING STEEL BE CUT WITHOUT THE SPECIFIC PERMISSION OF THE ARCHITECT.

2. WHERE CUTTING AND PATCHING OCCURS IN STREETS, SIDEWALKS, ALLEYS, AND THE LIKE, COOPERATE FULLY WITH THE OWNER AND MUNICIPAL AUTHORITIES TO MAINTAIN SAFE AND REQUIRED TRAFFIC FLOWS. NO EXTRAS WILL BE ALLOWED FOR TRAFFIC PATROLMEN OR OVERTIME WORK IF SUCH IS REQUIRED BY CITY, COUNTY, OR STATE OFFICIALS. PATCHING SHALL MEET ALL REQUIREMENTS OF MUNICIPAL OR OTHER GOVERNMENT BODIES.

15010.8 INSTALLATION INSTRUCTIONS:

1. ALL EQUIPMENT SHALL BE UL LISTED & INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SHOULD ANY VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE INSTRUCTIONS, THE ARCHITECT OR ENGINEER SHOULD BE CONTACTED IMMEDIATELY SO THAT ANY VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED.

2. UNLESS OTHERWISE NOTED ON THE EQUIPMENT SCHEDULE, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE SELECTED IN ACCORDANCE WITH THE WEIGHT DISTRIBUTION SO AS TO PRODUCE REASONABLY UNIFORM DEFLECTION.

3. INSTRUCT OWNER IN THE PROPER OPERATION AND MAINTENANCE OF EQUIPMENT. PROVIDE OWNER WITH BOUND OPERATING AND MAINTENANCE MANUALS, INCLUDE PARTS LIST, MAINTENANCE SCHEDULE, AND NAME, ADDRESS, AND PHONE NUMBER OF LOCAL PRODUCT REPRESENTATIVE.

4. PAINT INSIDE OF ALL DUCTWORK EXPOSED TO VIEW THRU GRILLES, REGISTERS & DIFFUSERS FLAT BLACK.

5. PROVIDE START-UP BY MANUFACTURER.

15010.9 GUARANTEE:

EACH COMPLETED SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL GUARANTEE EACH SYSTEM IN WRITING TO BE FREE OF DEFECTS OF MATERIAL AND WORKMANSHIP AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES SHALL PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT WILL BE PROVIDED AS NECESSARY TO MAKE THE SYSTEMS OR EQUIPMENT OPERATE SATISFACTORILY, THAT ANY FAULTY MATERIALS OR WORKMANSHIP WILL BE REPLACED OR REPAIRED, AND THAT ON FAILURE OF THE GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM THE OWNER, THE OWNER MAY HAVE THE WORK DONE AT THE COST OF THE GUARANTOR. PROVIDE EXTENDED 5 YEAR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS AND PARTS.

15020 BASIC MATERIALS AND METHODS:

SCOPE: THIS SECTION SETS FORTH PRODUCTS AND METHODS OF INSTALLATION FOR PLUMBING, HEATING, VENTILATION AND AIR CONDITIONING.

15020.1 SLEEVES:

WHERE PIPING, DUCTWORK, STACKS, ETC., PASSES THROUGH SUCH BUILDING ELEMENTS AS WALLS, FLOORS, ROOFS, FOOTINGS, ETC., PROVIDE SLEEVES UNLESS INDICATED OTHERWISE.

15020.2 HANGERS AND SUPPORTS:

SUPPORT HANGERS OF HORIZONTAL PIPE WITH VERTICALLY ADJUSTABLE HANGERS ON MALLEABLE SWIVEL RING OR WROUGHT STEEL CLEVIS TYPE HANGER SUSPENDED ON THREADED STEEL ROD HANGERS, EQUAL TO FEE AND MASON FIG. 199 AND FIG. 239 RESPECTIVELY WITH CLEVIS TYPE UTILIZED FOR LARGER PIPING.

15020.3 VALVES:

ALL VALVES SHALL BE CRANE, JENKINS, STOCKHAM OR MUELLER, DESIGNED FOR 125 PSI MINIMUM WORKING PRESSURE. ALL WATER VALVES SHALL BE FULL PORT BALL 1/4 TURN VALVES UNLESS OTHERWISE SPECIFIED OR REQUIRED FOR SPECIAL INSTALLATION OF FLOW CONTROL.

15030 INSULATION:

SCOPE: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO INSTALL INSULATION MATERIAL TO DUCTWORK, PIPES AS INDICATED ON DRAWINGS AND AS SPECIFIED HEREIN. THIS SECTION SETS FORTH PRODUCTS AND METHODS OF INSTALLATION FOR PLUMBING, AIR CONDITIONING, HEATING, AND VENTILATION SYSTEMS. FLAME-SPREAD INDEX OF LESS THAN 25 AND SMOKE DEVELOPED RATING OF LESS THAN 50.

15030.1 DUCT INSULATION:

1. ALL CONCEALED SUPPLY AND RETURN DUCT WORK SHALL BE EXTERNALLY WRAPPED WITH 2" THICK - 2 PCF DENSITY FIBERGLASS (FOIL BACKING), WIRING IN PLACE WITH 18 GAUGE GALVANIZED WIRE, 18" O.C. (R-8)

2. EXTERIOR DUCTWORK TO BE LINED WITH 2" ACOUSTICAL DUCT LINER (3 PCF) (R-8).

3. LINE DUCTWORK WITHIN 10' OF FAN W/ 2" ACOUSTICAL DUCT LINER (3 PCF) (R-8).

15030.2 PIPE INSULATION:

1. INSULATE CONDENSATE DRAIN PIPING WITH ASJ/SSL II 1" THICK FIBERGLASS PIPE INSULATION. (R-3) MANVILLE PIPE INSULATION OR OWENS-CORNING PIPE INSULATION. ALL INSULATION SHALL BE INSTALLED AS DESCRIBED HEREIN AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE TRADE PRACTICES AND MANUFACTURERS RECOMMENDATIONS.

2. INSULATE FIRST 8' OF DOMESTIC COLD WATER SUPPLY TO WATER HEATER/STORAGE TANKS AND 100% OF DOMESTIC HOT/ RECIRCULATING WATER PIPING WITH ASJ/SSL II FIBERGLASS PIPE INSULATION. MANVILLE PIPE INSULATION OR OWENS-CORNING PIPE INSULATION. ALL INSULATION SHALL BE INSTALLED AS DESCRIBED HEREIN AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE TRADE PRACTICES AND MANUFACTURERS RECOMMENDATIONS. THICKNESS PER TABLE BELOW:

TABLE C403.11.3
MINIMUM PIPE INSULATION THICKNESS (in inches)[a,c]

FLUID OPERATING TEMPERATURE RANGE AND USAGE (°F)	INSULATION CONDUCTIVITY		NOMINAL PIPE OR TUBE SIZE (inches)				
	Conductivity Btu • in./(h • ft2 • °F)	Mean Rating Temperature, °F	< 1	1 to < 1-1/2	1-1/2 to < 4	4 to < 8	≥ 8
105 – 140	0.21 – 0.28	100	1.0	1.0	1.5	1.5	1.5
141 – 200	0.25 – 0.29	125	1.5	1.5	2.0	2.0	2.0

For SI: 1 inch = 25.4 mm, °C = [(°F) - 32]/1.8.

a. For piping smaller than 11/2 inches and located in partitions within conditioned spaces, reduction of these thicknesses by 1 inch shall be permitted (before thickness adjustment required in footnote b) but not to a thickness less than 1 inch.

c. For direct-buried heating and hot water system piping, reduction of these thicknesses by 11/2 inches (38 mm) shall be permitted (before thickness adjustment required in footnote b but not to thicknesses less than 1 inch.

3. REFRIGERANT PIPING (SUCTION) 1", (R4) CLOSED CELLULAR FOAM RUBBER.

15040 WATER SYSTEMS:

SCOPE: DETERMINE IN ADVANCE OF CONSTRUCTION, THE LOCATION OF ALL PIPING SLEEVES, HANGERS, FLOW LINE ELEVATION, ETC. INSTALL PIPING SUBSTANTIALLY AS INDICATED, PARALLEL WITH THE BUILDING WALLS, UNLESS INDICATED OTHERWISE. PROVIDE PRV WHERE INCOMING PRESSURE EXCEEDS 80 PSI.

15040.1 DOMESTIC WATER PIPING:

1. DOMESTIC WATER PIPING (ABOVE GROUND): WATER PIPING SHALL BE HARD DRAWN TYPE "L" COPPER.

2. DOMESTIC WATER PIPING (BELOW GROUND): WATER PIPING SHALL BE TYPE "K" SOFT COIL (NO JOINTS) WROUGHT COPPER WITH TWO COATS OF POLYVINYL BLACK TAPE.

3. FITTINGS SHALL BE CAST BRASS OR WROUGHT COPPER SUITABLE FOR SWEAT OR BRAZED CONNECTIONS. SOLDER SHALL BE 95-5 (95% TIN AND 5% ANTIMONY), FOR PIPES 1-1/2" AND SMALLER. USE 1050 DEGREE SILVER SOLDER FOR ALL OTHER SIZES. CLEAN JOINTS AND APPLY NON-CORROSIVE FLUX BEFORE SOLDERING. ALL COPPER PIPE INSTALLATION SHALL MEET ASTM B-88, ASTM B-813 AND ASTM B-828

4. HOT WATER TO BE LEFT FITTING AT ALL LOCATIONS.

5. PROVIDE DIELECTRIC INSULATOR ON ALL DISSIMILAR METALS.

15040.2 TEST AND INSPECTION:

1. DOMESTIC WATER PIPING SHALL BE PRESSURE TESTED AND PROVEN TIGHT WITH A MINIMUM OF 100 PSI HYDROSTATIC TEST. NOTIFY CITY INSPECTOR PRIOR TO TEST. FINAL APPROVAL SHALL BE BY THE CITY INSPECTOR.

2. FLUSH AND DISINFECT POTABLE WATER SYSTEM IN ACCORDANCE WITH IPC SECTION 610 OR LOCAL CODE, WHICHEVER IS MORE STRINGENT.

15050 WASTE WATER SYSTEMS:

SCOPE: DETERMINE IN ADVANCE OF CONSTRUCTION LOCATION OF ANY AND ALL EXISTING WASTE PIPING UNDERGROUND ON SITE, AND IN THE ADJOINING STREETS. PIPING WILL BE AS INDICATED AND PARALLEL WITH BUILDING UNLESS OTHERWISE DIRECTED. FURNISH AND INSTALL A COMPLETE SANITARY WASTE SYSTEM, INCLUDING CONNECTION TO CITY SEWERS AND BUILDING PLUMBING FIXTURES.

15050.1 SOIL AND WASTE INSTALLATION:

1. BURY ALL EXTERIOR SOIL LINES A MINIMUM OF 18" BELOW FINISHED GRADE.

2. SLOPE HORIZONTAL SOIL AND WASTE PIPES UNDER BUILDING 1/4" PER FOOT. SLOPE SHALL BE UNIFORM AND FREE OF DIPS, TRAPS, ETC.

3. ALL VENTS TO BE LOCATED A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.

4. NOTIFY ENGINEER IMMEDIATELY IF UPPER MANHOLE RIM IS ABOVE FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY.

5. UNDERGROUND (EXCEPT UNDER BUILDING SLAB) NONMETALLIC PIPING SHALL BE INSTALLED WITH INSULATED MIN. 18 GAUGE COPPER TRACER WIRE. PER LOCAL CODE.

15050.2 PIPING:

ABOVE GROUND:

1. STANDARD WEIGHT NO-HUB CAST IRON COATED INSIDE AND OUT.

2. NO-HUB CAST IRON FITTINGS.

3. ALL MATERIALS, INCLUDING PIPE, FITTINGS AND COUPLINGS TO BE MADE IN AMERICA.

UNDERGROUND:

1. SOLID CORE SCHEDULE 40 ABS DWV (ASTM D 2661) OR SOLID CORE PVC DWV (ASTM D 2665).

2. MATCHING FITTINGS.

15050.3 TESTS AND INSPECTIONS

1. TEST SEWER, WASTE AND VENT PIPING UNDER A WATER PRESSURE EQUIVALENT TO THE HEIGHT OF THE HIGHEST VENT FOR NO LESS THAN 6 HOURS.

2. NOTIFY THE ARCHITECT PRIOR TO TESTING. APPROVAL WILL BE BY THE ARCHITECT, CITY INSPECTOR OR BOTH AS DIRECTED.

15055 OTHER PIPING SYSTEMS

1. CONDENSATE DRAIN (CD) & DRAIN (D) PIPING SHALL BE COPPER TYPE 'M' HARD DRAWN PIPE TRAPPED & VENTED EQUIPMENT, SLOPE 1/8"/FT, PROVIDE CLEANOUT CAP AT ENDS OF PIPE.

2. A. FUEL GAS PIPING ABOVE GROUND 2" AND SMALLER BLACK STEEL SCHEDULE 40 W/ CLASS 150 MALLEABLE IRON THREADED FITTINGS. PROVIDE SUPPORT EVERY 6'.

B. FUEL GAS PIPING ABOVE GROUND 2 1/2" AND LARGER, BLACK STEEL SCHEDULE 40 W/ WROUGHT STEEL BUTTWELDED FITTINGS. PROVIDE SUPPORT EVERY 10'.

C. FUEL GAS PIPING UNDERGROUND (NOT UNDER BUILDING) POLYETHYLENE PE 3406 W/ ANODELESS RISERS. UNDERGROUND (EXCEPT UNDER BUILDING SLAB) NONMETALLIC PIPING SHALL BE INSTALLED WITH INSULATED MIN. 18 GAUGE COPPER TRACER WIRE. PER LOCAL CODE.

D. FUEL GAS PIPING UNDERGROUND (UNDER SLAB) TRACPIPE PS-II CORRUGATED STAINLESS STEEL TUBING (CSST) WITH INTEGRAL VENTED SLEEVE.

3. ROOF/ OVERFLOW DRAIN PIPING SHALL BE STANDARD WEIGHT NO HUB CAST IRON.

4. GAS FIRED CONDENSATE (CD) PIPING SHALL BE PVC PIPE WITH TRAP, SLOPE 1/8"/FT, PROVIDE CLEANOUT CAP AT ENDS OF PIPE. CONDENSATE PIPING SHALL BE ROUTED THRU A NEUTRALIZATION SYSTEM BEFORE BEING DISCHARGED.

5. COMPRESSED AIR PIPING SHALL BE TYPE 'L' COPPER TUBE.

15060 PLUMBING SPECIALTIES:

SCOPE: PROVIDE NEW FIXTURES, DRAINS, AND OTHER PLUMBING EQUIPMENT AS SPECIFIED HEREIN AND ON PLANS AND INSTALL TO OPERATE AS INTENDED.

15060.1 CLEANOUTS:

1. INTERIOR FINISHED FLOORS OR SIDEWALKS.

2. CONCRETE AND TILE FLOORS: "ZURN" A-1400-2 WITH SCORIATED NICKEL BRONZE TOP.

3. INTERIOR FINISHED WALLS: "ZURN" Z-1445-1.

4. OUTSIDE YARD CLEANOUTS: "ZURN" Z-1450-6 WITH 12"X12" POURED CONCRETE PAD AT GRADE.

NOTE: PROVIDE ALL CLEANOUTS WITH HEAVY THREADED BRONZE PLUGS.

15070 AIR DISTRIBUTION

WORK SPECIFIED HEREIN: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO INSTALL THE AIR DISTRIBUTION SYSTEM AND RELATED ITEMS IN ACCORDANCE WITH LATEST EDITION "SMACNA" STANDARDS AND/OR LOCAL CODE REQUIREMENTS AS SPECIFIED HEREIN AND INDICATED ON PLANS. (WHICHEVER IS MORE STRINGENT) IN ACCORDANCE WITH UL181A OR 181B. FLEXIBLE DUCT WILL BE CLASS 1 (UL 181). ALL MATERIALS, PRODUCTS AND SEALING TO BE IN ACCORDANCE WITH UL 181A OR UL 181B.

15070.1 DUCTWORK:

THE DUCTWORK SHALL BE FABRICATED AND INSTALLED BY SKILLED MECHANICS IN A WORKMAN LIKE MANNER USING THE BEST PRACTICES OF THE TRADE AND BE MADE OF GALVANIZED SHEET METAL "DUCT SHEET" SIZED FROM THE FOLLOWING TABLE:

DIAMETER OR GREATEST DUCT DIMENSION	U.S. GAUGE FOR GALVANIZED	1"X 18 GA DUCT SUPPORT	TRAVERSE JOINTS AND GRAZING
UP TO 12"	24	10' ON CENTER	S-SLIP DRIVE SLIP 1" POCKET LOCK ON 8' CENTER
UP TO 30"	22	10' ON CENTER	S-SLIP, 1" POCKET LOCK ON 8' CENTERS

15070.2 HVAC DUCT SMOKE DETECTORS:

WHERE INDICATED ON PLANS, PROVIDE LISTED, COMPATIBLE SMOKE DETECTORS MOUNTED RIGIDLY IN THE DUCT IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS TO AUTOMATICALLY SHUT OFF THE SYSTEM WITHIN 30 SECONDS BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT. DUCT DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL NORMALLY OCCUPIED LOCATIONS. WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED, THE SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS. SMOKE DETECTORS SHALL BE READILY ACCESSIBLE INCLUDING ACCESS DOORS, AND SHALL BE PERMANENTLY LABELED. PROVIDE L.E.D. INDICATOR LIGHT @ CEILING UNDER THE PROTECTED UNIT. INSTALL IN ACCORDANCE WITH 2018 IMC, SECTION 606 AND NFPA 72.

15070.3 HVAC IDENTIFICATION:

PROVIDE A SECURELY FASTENED NAME PLATE OF 1/16" THICK BLACK BAKELITE WITH ENGRAVED WHITE CORE LETTERS AND 4 EDGE BEVEL, 2 1/2"X 3/4" PERMANENTLY IDENTIFYING EACH UNIT AND AREA SERVED.

15070.4 AIR BALANCE:

PROVIDE COMPLETE AIR BALANCE BY INDEPENDENT AABC OR NEBB CONTRACTOR AND PROVIDE REPORT TO OWNER AND ENGINEER, AND FOR REVIEW BY CITY IN ACCORDANCE WITH IMC 403.3.4.

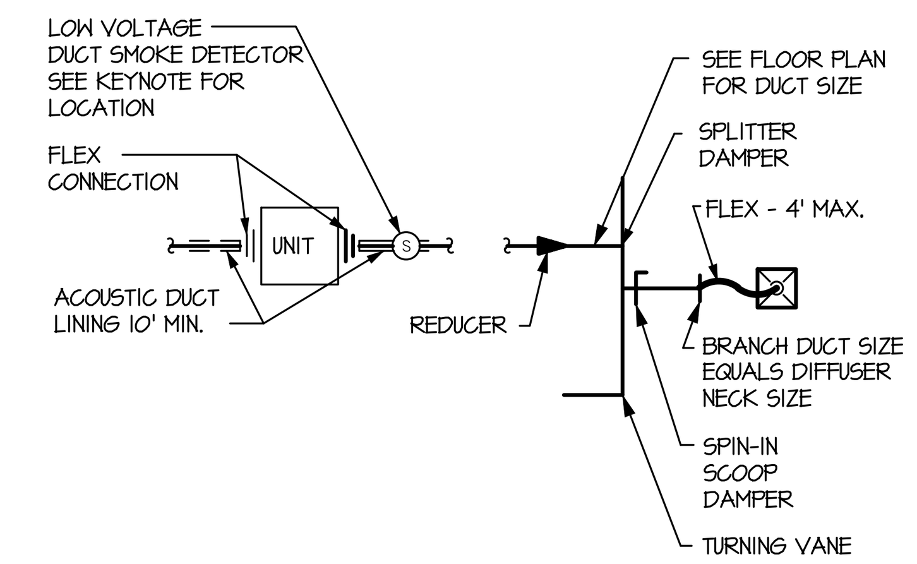
15080 CONTROL:

WORK SPECIFIED HEREIN: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO INSTALL A COMPLETE ELECTRICAL CONTROL SYSTEM AS SPECIFIED HEREIN, AND AS SHOWN ON PLANS.

1 MECHANICAL & PLUMBING SPECIFICATIONS

TYPICAL SYMBOLS LIST

NOTE: NOT ALL MAY APPLY



DUCT CONSTRUCTION STANDARD
NTS

- POINT OF CONNECTION (P.O.C.)
- DUCT UP / DOWN
- EVAPORATIVE COOLER WALL SWITCH
- EXHAUST
- L/S — LIQUID SUCTION LINES
- RETURN GRILLE
- SUPPLY DIFFUSER (CD) 4-WAY THROW CFM
- SUPPLY DIFFUSER (CD) 3-WAY THROW CFM
- SUPPLY DIFFUSER (CD) 2-WAY THROW CFM
- T — THERMOSTAT MOUNTED @ +4'-0" AFF
- E — EXISTING
- E/R — EXISTING TO BE RELOCATED
- R — RELOCATED
- D — DEMOLITION OF EXISTING FIXTURE
- N — NEW, MATCH EXISTING
- FBO — FURNISHED BY OTHERS
- CD — CONDENSATE DRAIN (CD)
- D — DRAIN (D)
- DRAIN VALVE AT 4'-0" AFF WITH HOSE END
- CW — EXISTING COLD WATER
- HW — EXISTING HOT WATER
- S — EXISTING SOIL/WASTE
- V — EXISTING VENT PIPING
- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- HOT WATER RETURN (HWR)
- TW — TEMPERED WATER (TW)
- HOSE BIBB WITH VACUUM BREAKER (HB W/ VB)
- GAS COCK & DIRT LEG
- G — GAS PIPING
- POINT OF CONNECTION
- PIPE DOWN
- PIPE "T" DOWN
- PIPE UP
- SHUT-OFF VALVE (SOV)
- SHUT-OFF VALVE IN CONCRETE YARD BOX WITH CAST IRON COVER
- SHUT-OFF VALVE ABOVE CEILING WITH ACCESS PANEL
- SOIL/WASTE
- GW — GREASY WATER
- SURFACE CLEAN OUT (SCO)
- 2-WAY SURFACE CLEAN OUT (SCO)
- UNION
- VENT PIPING (V)
- VENT THRU ROOF (VTR) LOCATE 10' FROM FRESH AIR SOURCE
- WALL CLEAN OUT (WCO)

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Registered Professional Engineer (Mechanical)
CERTIFICATE NO. 49968
JUSTIN S. BOWIE
Date Signed 4/23/25
ARIZONA, U.S.A.
Expires 9/30/27

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 . 445 . 0626 WWW . MTAI . NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

335 WHITE SPAR ROAD

PRESCOTT, AZ 86303

109-15-024A

ZONING: BG

MTAI PROJECT NUMBER: 25009

PLOT DATE: 4.23.25

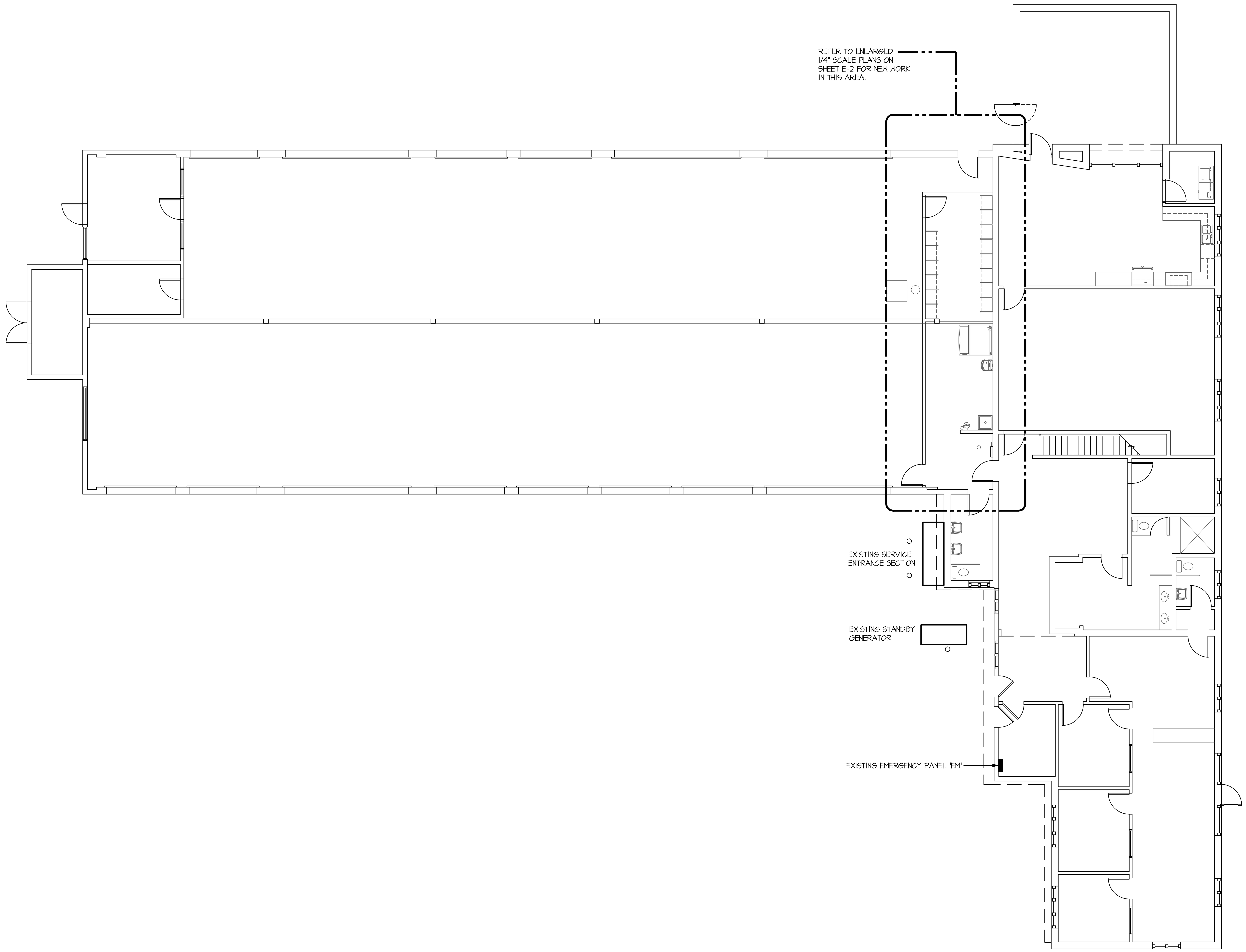
DATE:	DESCRIPTION:

MECHANICAL & PLUMBING SPECIFICATIONS

MPS

THE CONSTRUCTION DOCUMENT SET FOR THIS PROJECT SHALL INCLUDE THIS DRAWING SHEET, ALL OTHER SHEETS & ASSOCIATED DOCUMENTS LISTED ON THE DRAWING INDEX ON COVER SHEET, & ANY OTHER DOCUMENTATION AS SUPPLIED BY THE ARCHITECT & CONSULTING ENGINEERS. ALL OF THE PROJECT DOCUMENTS REPRESENT AN ALL ENCOMPASSING WHOLE, & SHALL BE USED IN THEIR ENTIRETY FOR BIDDING & CONSTRUCTION PURPOSES

\\BTE_SERVER\BTE JOB FILES\2025\25038 PRESCOTT FIRE STATION 71\25038MPB.DWG APR 23, 2025 - 11:12AM BY SKYLAR



1 OVERALL ELECTRICAL PLAN

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

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 54087
HAROLD H. BOWIE
Date Signed 5/02/25
ARIZONA, U.S.A.
Expires 12/31/27

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 . 445 . 0626 WWW . MTAI . NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

335 WHITE SPAR ROAD PRESCOTT, AZ 86303
\-
109-15-024A
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ZONING: BG

MTAI PROJECT NUMBER: 25009 PLOT DATE:
DATE: DESCRIPTION: BUILDING REMODEL & SITE IMPROVEMENTS

Bowie Tiglas
Engineering Inc.
Consulting Engineers
Phone: 602.992.3900
24820 N. 16th Avenue
Suite 170
Phoenix, AZ. 85085

BTE # 25038E

E-1

OF 3 SHEETS

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LIGHT FIXTURE SCHEDULE

LTR TYPE	FIXTURE TYPE	MOUNTING	LUMENS	WATTS	CCT	DIMMING	VOLTAGE	MANUFACTURER/ CATALOG SERIES	NOTES
A	2'x4' LED EDGE LIT PANEL	RECESSED	5631	40	3500	0-10V	120/277	LITHONIA CPX 2x4 5000LMHE 80CRI 35K SWL MIN10 ZT MVOLT WITH E10WLCP WHERE NOTED "EM"	

GENERAL NOTES

A. PROVIDE ALL CUTTING, PATCHING (INCLUDING FIRE STOPPING) OF FLOORS, WALLS, OR CEILINGS REQUIRED FOR THE NEW POWER SYSTEMS. PATCH TO MATCH ADJACENT SURFACES.

B. VERIFY MOUNTING HEIGHTS OF ALL RECEPTACLES, TELE/DATA OUTLETS, ETC. PRIOR TO ROUGH IN. REFER TO THE ARCHITECTURAL ELEVATIONS.

C. SEAL ALL CONDUIT/ RACEWAY PENETRATIONS OF SMOKE OR FIRE RATED WALLS OR FLOOR WITH INTUMESCENT TYPE FIRE BARRIER.

D. FOR BRANCH CIRCUITS (120V/ 20 AMPS) PROVIDE WIRE SIZE AS FOLLOWS FOR TOTAL CONDUCTOR LENGTH OF CIRCUIT: 0-75 FEET: #12 AWG CU, 76-115 FEET: #10 AWG CU, 116-170 FEET: #8 AWG CU, 171-270 FEET: #6 AWG CU. ALL 20 AMP/ 120 VOLT CIRCUITS ARE TO BE 1/2" C.- 2#12,1#12 GND HOMERUN UNLESS NOTED OTHERWISE OR MODIFIED FOR LENGTH.

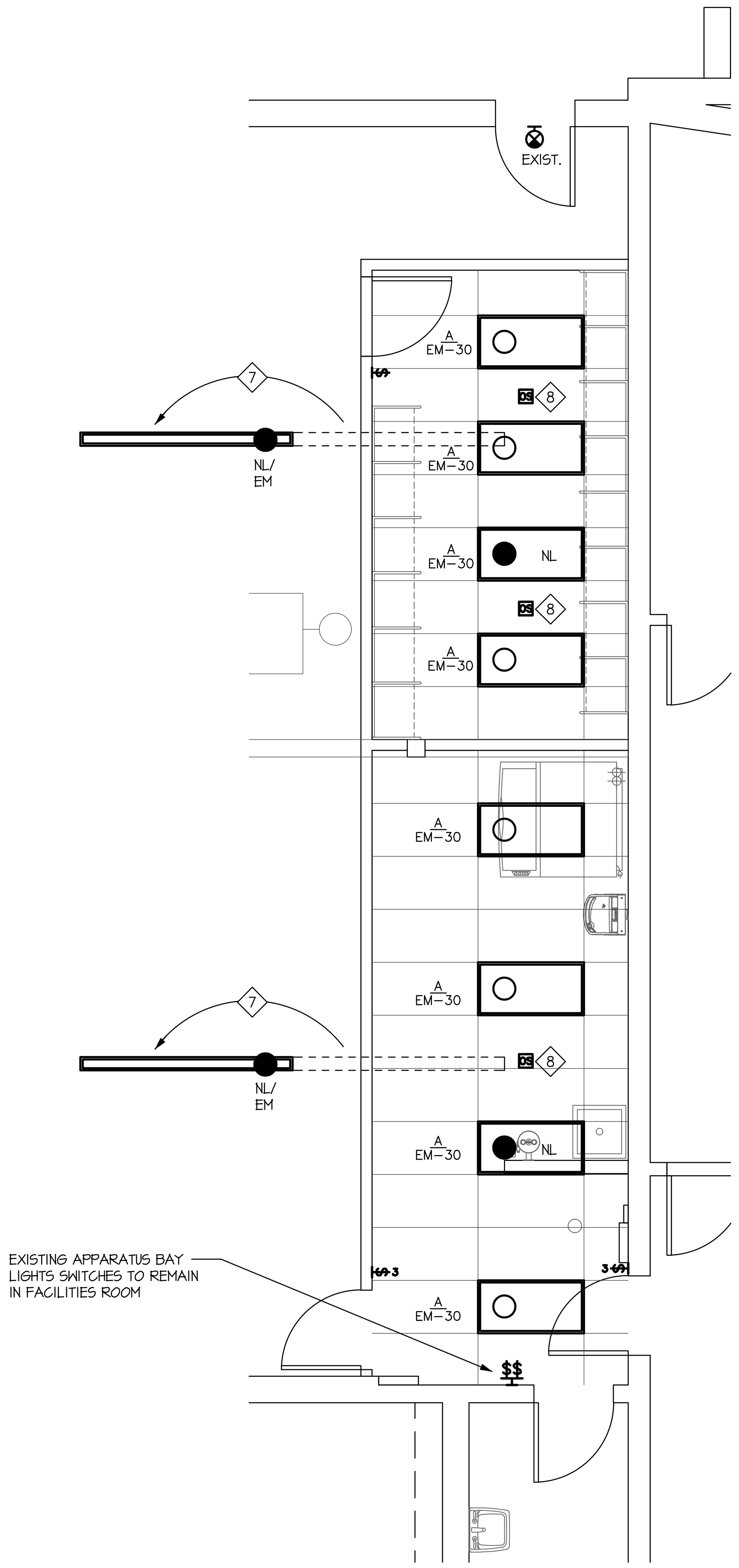
E. PROVIDE ALL CONDUIT, BACK BOXES, AND RACEWAYS FOR TELE/DATA AND SECURITY OUTLETS SHOWN ON PLAN. PROVIDE PULLSTRING IN EACH CONDUIT.

F. ALL 1 PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS AND 50 AMPS OR LESS, AND 3 PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS AND 100 AMPS OR LESS IN BATHROOMS, KITCHENS, ROOFTOPS, OUTDOORS, WITHIN 6' OF A SINK OR OTHER INDOOR WET LOCATION, LOCKER ROOMS WITH SHOWER FACILITIES, AND GARAGE AND SERVICE BAYS ARE TO BE GFCI PROTECTED PER NEC 210.8. ALL GFCI RECEPTACLES ARE TO BE INSTALLED IN A READILY ACCESSIBLE LOCATION OR A GFCI CIRCUIT BREAKER IS TO BE INSTALLED IN LIEU OF A GFCI RECEPTACLE.

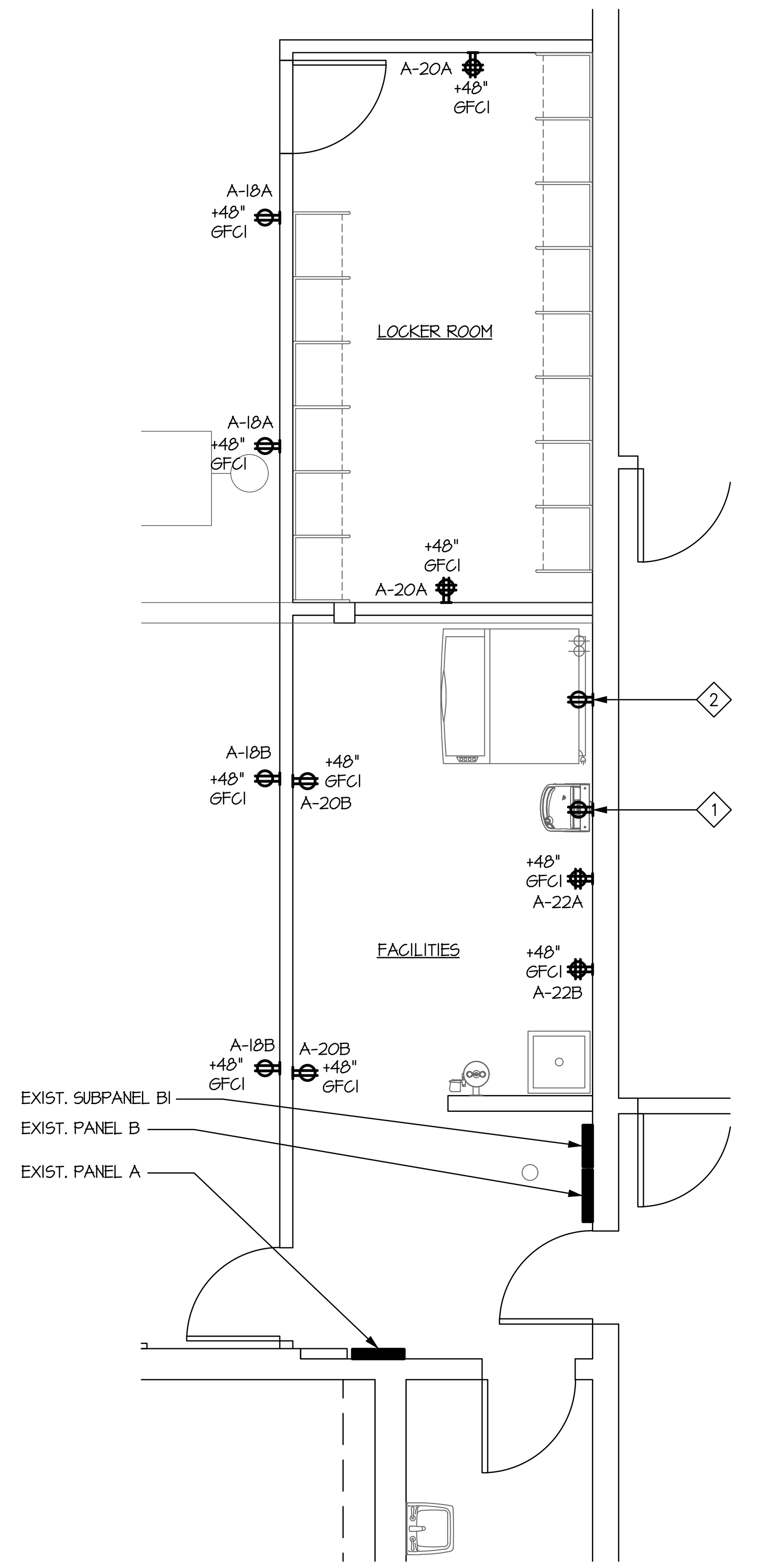
G. ALL CONDUITS OR RACEWAYS THAT ENTER A BUILDING FROM OUTSIDE (INCLUDING SPARE OR UNUSED RACEWAYS) SHALL BE SEALED PER NEC 225.27.

KEY NOTES

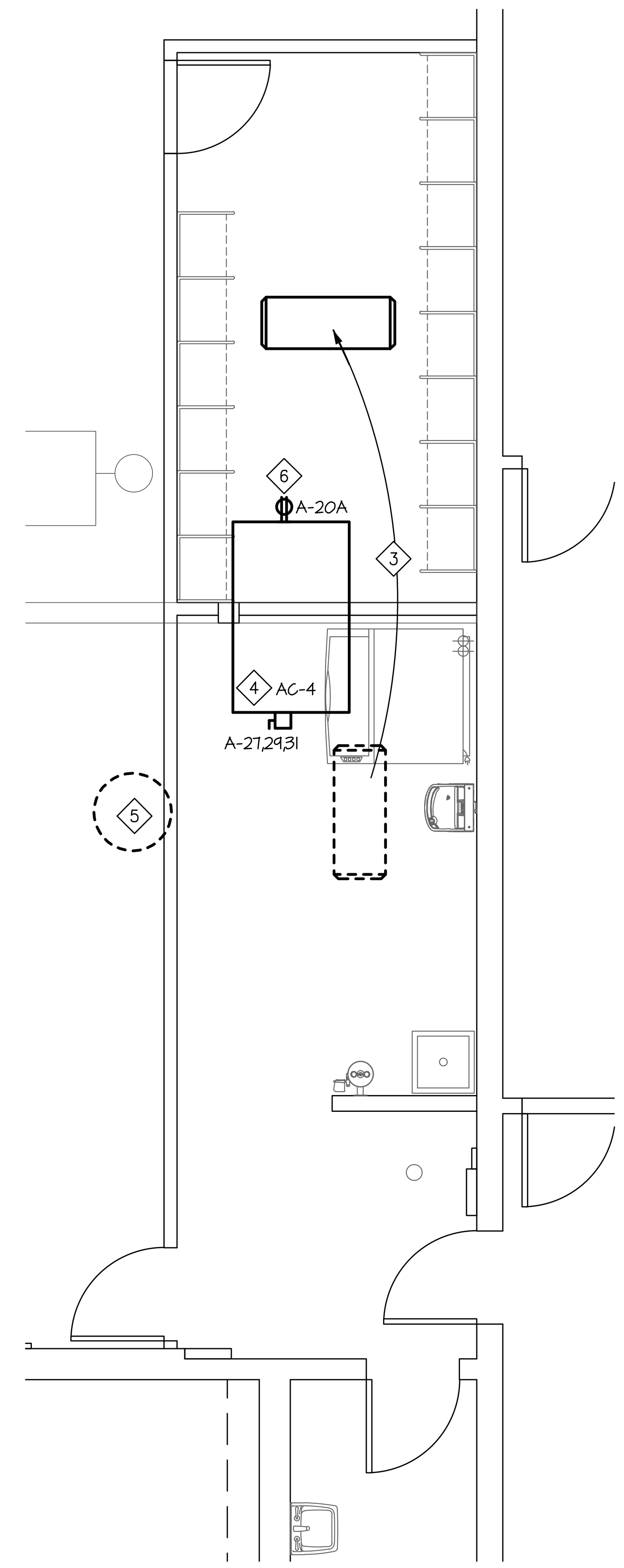
1. RELOCATE 120V/20A GFCI RECEPTACLE TO NEW ELECTRIC DRINKING FOUNTAIN LOCATION AS REQUIRED.
2. RELOCATE 120V/20A GFCI RECETACLE TO NEW ICE MAKER LOCATION AS REQUIRED.
3. RELOCATE EXISTING AIR HAWK PURIFICATION UNIT AND 20A/208V CIRCUIT AND DISCONNECT TO NEW LOCATION AS REQUIRED.
4. NEW ROOFTOP A/C UNIT AC-4. 21.8 FLA/ 28 MCA/ 40 MOCP-208V-3Φ. PROVIDE 60A/3P WP FUSED DISC. SWITCH AT UNIT AND 3/4" C.- 3#10,1#10 GND HOMERUN.
5. EXISTING EXHAUST FAN TO BE DEMOLISHED BY MECH. CONTRACTOR. REMOVE CONDUIT AND WIRE COMPLETELY BACK TO SOURCE.
6. PROVIDE NEW WP/GFCI RECEPTACLE AND 1/2" C.- 2#12,1#12 GND HOMERUN ON ROOF WITHIN 25' OF NEW ROOFTOP HVAC EQUIPMENT.
7. DEMOLISH EXISTING 8' STRIP LIGHT TO ACCOMMODATE NEW WALL. RELOCATE EXISTING NL/EM FIXTURE DOWN ONE POSITION AS SHOWN.
8. PROVIDE CEILING MOUNTED OCCUPANCY SENSOR AND POWER PACK TO CONTROL FIXTURES IN AREA SHOWN.



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



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



3 ENLARGED HVAC POWER PLAN
SCALE: 1/4"=1'-0"

Registered Professional Engineer (Electrical)
CERTIFICATE NO. 54087
HAROLD H. BOWIE
ARIZONA, USA
Expires 12/31/27

MICHAEL TAYLOR ARCHITECTS, INC.
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AN ENVIRONMENTAL IMPROVEMENT FOR
PRESCOTT FIRE DEPT. #71
335 WHITE SPAR ROAD PRESCOTT, AZ 86303
109-15-024A
ZONING: BG

MTAI PROJECT NUMBER: 25009
PLOT DATE:
DATE:
DESCRIPTION: BUILDING REMODEL & SITE IMPROVEMENTS

Bowie Tiglas Engineering Inc.
Consulting Engineers
Phone: 602.992.3900
24820 N. 16th Avenue
Suite 170
Phoenix, AZ. 85085
BTE # 25038E

E-2
OF 3 SHEETS

ELECTRICAL SYMBOLS

SURFACE FIXTURE

STRIP FIXTURE

RECESSED OR SURFACE DOWNLIGHT

RECESSED WALL WASHER,

WALL MOUNTED FIXTURE AND BRACKET

WALL MOUNTED EXIT SIGN, SHADING INDICATES THE ILLUMINATED FACES

CEILING MOUNTED EXIT SIGN, SHADING INDICATES THE ILLUMINATED FACES

BATTERY PACK, NORMAL POWER

POLE, BASE AND FIXTURE(S). CIRCLES INDICATE # OF HEADS PER POLE, NORMAL POWER

TRACK HEADS AND TRACK ASSEMBLY

LIGHT FIXTURE DESIGNATION

A — LIGHT FIXTURE TYPE
1 — PANELBOARD CIRCUIT NUMBER

SWITCH, WHERE "X" CAN BE ONE OF THE FOLLOWING:
- 2 = DOUBLE POLE
- 3 = THREE WAY
- 4 = FOUR WAY
- K = KEYED
- LV = LOW VOLTAGE
- MC = MOMENTARY WITH RTC
- a = SWITCH LEG INDICATOR
- (blank) = SINGLE POLE

OCCUPANCY SENSOR WALL SWITCH DUAL TECH UNLESS NOTED OTHERWISE

600W DIMMER SWITCH, OPERATING WATTAGE INDICATED

OCCUPANCY SENSOR, WHERE "Y" IS THE RATED AREA OF COVERAGE AND "X" IS ONE OF THE FOLLOWING:
- DT – DUAL TECHNOLOGY
- US – ULTRASONIC OR MICROPHONIC
- PIR – PASSIVE INFRARED

DUPLEX RECEPTACLE, NORMAL POWER

DUPLEX RECEPTACLE, ABOVE COUNTER

FOURPLEX RECEPTACLE

208/240V RECEPTACLE

DISCONNECT SWITCH

MSS MOTOR STARTER SWITCH WITH OVERLOAD PROTECTION

EF-1 MAGNETIC MOTOR STARTER WITH EQUIPMENT NUMBER INDICATED

EF-1 COMBINATION MOTOR STARTER AND FUSED DISCONNECT WITH EQUIPMENT NUMBER INDICATED

MOTOR CONNECTION

208/120 VOLT PANELBOARD

480/277 VOLT PANELBOARD

4" BACKBOX WITH SINGLE GANG MUDRING AND 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING SPACE UNLESS NOTED OTHERWISE

JUNCTION BOX, RECESSED WALL

JUNCTION BOX, RECESSED CEILING

TELEVISION RECEIVER

PUSHBUTTON

C:\shared\Projects\2025\25038 Prescott Fire Station #71\25038E.dwg May 02, 2025 - 3:27pm by hhbow

SPECIFICATIONS

16001 SCOPE OF WORK

THE WORK DESCRIBED UNDER THIS SECTION OF THE SPECIFICATIONS INCLUDES FURNISHING ALL MATERIAL LABOR AND EQUIPMENT, EXCEPT AS FURNISHED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, TO INSTALL ALL ELECTRICAL WORK AS SHOWN IN THE DRAWINGS AND AS SPECIFIED AND REFERRED TO HEREIN.

.01 EXAMINATION OF THE PREMISES

THE CONTRACTOR WILL BE HELD TO HAVE EXAMINED THE PREMISES AND SATISFIED HIMSELF AS TO EXISTING CONDITIONS UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS PART OF THE WORK OR THAT WHICH WILL IN ANY MANNER AFFECT THE WORK UNDER HIS CONTRACT.

PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK , VERIFY THE DIMENSIONS AT THE SITE; CORRECTNESS OF DIMENSIONS WILL BE THIS CONTRACTORS RESPONSIBILITY. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. IMMEDIATELY REPORT DIFFERENCES TO THE ARCHITECT AND DO NOT PROCEED WITH WORK UNTIL ARCHITECT RENDERS HIS DECISION.

.02 REGULATIONS, PERMITS, AND INSPECTIONS

REGULATIONS: COMPLY WITH ALL APPLICABLE CODES, RULES , AND REGULATIONS. ALL MATERIALS, EQUIPMENT, AND WORK MUST COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND THE APPLICABLE MUNICIPAL AND LIFE SAFETY CODES.

PERMITS: OBTAIN AND PAY FOR ALL PERMITS, FEES , AND LICENSES REQUIRED TO PERFORM WORK DESCRIBED HEREIN.

INSPECTIONS: ALL WORK MUST BE INSPECTED AND APPROVED BY LOCAL AUTHORITIES. PRIOR TO FINAL APPROVAL, FURNISH THE ARCHITECT WITH CERTIFICATES OF INSPECTION AND APPROVALS BY THE LOCAL AUTHORITIES.

.03 WORK LISTED ELSEWHERE

FURNISHING AND INSTALLING MOTOR CONTROLS UNLESS IN MOTOR CONTROL CENTER. FURNISHING HOLE CUTTING IN PRE CAST STRUCTURAL CONCRETE.

.04 EXISTING SERVICES AND REMODEL AREAS

MAINTAIN ALL SERVICES, POWER, SOUND, TELEPHONE, ETC. TO EXISTING BUILDINGS OR AREAS. INTERRUPTIONS OF SERVICES REQUIRED FOR "CUT-OVER" OR CONNECTIONS OF NEW CABLES, ETC. SHALL BE DONE AT THE CONVIENCE OF THE TENANT AND BE APPROVED IN WRITING BY THE TENANT PRIOR TO THE INTERRUPTION.

16440 SAFETY SWITCHES

SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE. WHERE OUTSIDE THE BUILDING, THE SWITCHES SHALL BE RAINTIGHT TYPE NEMA 3R. ALL SWITCHES SHALL BE LOCKABLE.

16471 PANELS

PANEL TYPE AS INDICATED ON THE DRAWINGS. NEW FLUSH PANELS TO HAVE (3) 3/4" EMPTY CONDUITS STUBBED INTO ACCESSIBLE CEILING SPACE.

PROVIDED A GROUND BUS IN ALL PANELS INCLUDING EXISTING PANELS WHEREIN WORK IS DONE OR LOADS ADDED. CHECK ALL BREAKERS. REPLACE DEFECTIVE BREAKERS IN AFOREMENTIONED PANELS.

VERIFY THE INTERRUPTING CAPACITY OF ALL BREAKERS WITH REQUIREMENT INDICATED ON THE DRAWINGS. REPLACE EXISTING BREAKERS NOT MEETING REQUIRED A.I.C. RATING.

16461 DRY TYPE TRANSFORMERS (IF ANY)

150 DEGREE TEMPERATURE RISE; DOE 2016 EFFICIENCY COMPLIANT, CLEARANCE ALL AROUND PER MANUFACTURES RECOMMENDATION. PROVIDE ISOLATION PADS AND TRANSFORMER GROUND PER NEC.

16510 LIGHTING FIXTURES

FLUORESCENT FIXTURES SHALL BE FURNISHED WITH UL LISTED HIGH POWER-FACTOR ELECTRONIC BALLASTS. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION BEFORE ORDERING RECESSED UNITS AND SHALL PROVIDE PLASTER OR DRY WALL FRAMES AS REQUIRED. FLOURESCENT LAMPS SHALL BE A MINIMUM OF 80 CRI UNLESS NOTED OTHERWISE.

RECESSED FLUORESCENT DOWN LIGHTS SHALL BE LISTED FOR USE IN INSULATED CEILING SPACES WHERE APPLICABLE AND HAVE ANY REQUIRED FEED-THRU BOXES.

LED FIXTURES SHALL BE OF THE CCT AND LUMEN/ DRIVER PACKAGE AS LISTED IN THE LIGHT FIXTURE SCHEDULE. REMOTE DRIVERS ARE TO BE UL LISTED WHERE NOT INSTALLED AS PART OF THE FIXTURE ASSEMBLY AND MOUNTED PER MANUFACTURER'S INSTRUCTIONS.

ALL FIXTURES SHALL BE PROPERLY SUPPORTED FROM CEILING STRUCTURE, NOT FROM GYPBOARD OR PLASTER. SURFACE OR PENDANT MOUNT FLUORESCENT FIXTURES SHALL BE BOLTED TOGETHER FOR PROPER ALIGNMENT AND BONDING.

16195 NAME PLATES

PROVIDE CONTRAST PLASTIC EMBOSSING TAPE, ADHESIVE BAKED NAMEPLATES FOR ALL STARTERS AND DISCONNECT SWITCHES.

PROVIDE LAMICOID NAMEPLATES FOR ALL DISTRIBUTION SWITCHES, BREAKERS, LIGHTING AND POWER PANELS INDICATING ITEMS SERVED. SIZE OF LETTERS SHALL BE MINIMUM OF 3/16" HIGH.

16120 WIRE

ALL WIRE AND CABLE SHALL BE NEW, 600 VOLT INSULATED, OF TYPES SPECIFIED BELOW. ALL WIRE AND CABLE SHALL BEAR THE UNDERWRITERS' LABEL AND SHALL BE BROUGHT TO THE JOB IN UNBROKEN PACKAGES. WIRE SHALL BE COLOR CODED PER NEC.

BRANCH CIRCUIT WIRING SHALL BE A MINIMUM #12 AWG COPPER

WIRE AND CABLE NO. 4 AWG AND SMALLER SHALL BE TYPE THW OR THHN/THWN

WIRE AND CABLE LARGER THAN NO. 4 AWG SHALL BE TYPE XHHW.

ALL AIR CONDITIONING FEEDERS SHALL BE TYPE XHHW.

ALL WIRING IN PANELBOARDS, SWITCHBOARDS, AND GUTTERS SHALL BE NEATLY ARRANGED. WIRE SHALL BE HELD BUNDLED BY TY-RAPS. WIRES SHALL BE CONNECTED TO CIRCUIT BREAKERS, SWITCHES AND OTHER DEVICES PERPENDICULAR TO TERMINAL LUGS.

16110 CONDUIT

IN GENERAL, ELECTRICAL METALLIC TUBING SHALL BE USED FOR ALL WIRING EXCEPT IN OR UNDER CONCRETE, EARTH, OR FILL. ELECTRICAL METALLIC TUBING MAY BE USED IN FURRED SPACES, WOOD FRAME WALLS WHERE CONDUITS DO NOT EXCEED 2 1/2" IN SIZE, BRICK, BLOCK, TILE, AND CONCRETE WALLS ARE NOT CONSIDERED HOLLOW AND RIGID CONDUIT SHALL BE PROVIDED FOR THESE AREAS.

.01 RIGID STEEL CONDUITS OR INTERMEDIATE METAL CONDUITS SHALL BE USED IN CONCRETE SLABS, IN SOLID GROUTED CELLS OR CONCRETE MASONRY WALLS, BRICK, OR TILE WALLS, FOR ALL EXPOSED CONDUIT OUTSIDE OF THE BUILDING, AND FOR CONDUITS EXCEEDING 2 1/2" IN SIZE. IN ADDITION ALL WIRING IN OR UNDER CONCRETE, EARTH, OR FILL SHALL BE RIGID GALVANIZED OR SHERARDIZED STEEL. RIGID CONDUIT UNDER CONCRETE, IN EARTH , OR FILL SHALL BE COATED WITH POLYETHYLENE TAPE, SCOTCH NO. 50 OR APPROVED EQUAL, SPIRAL WRAPPED 1/2" LAPPED TO AN OVERALL THICKNESS OF NOT LESS THAN 15 MILS.

.02 USE FLEXIBLE METAL CONDUITS FOR RECESSED FIXTURES, MOTOR, TRANSFORMER AND OTHER EQUIPMENT SUBJECT TO MOVEMENT. USE LIQUID TIGHT TYPE WHERE EXTERIOR OR SUBJECT TO LIQUID SPRAY OR DRIPPING.

.03 UL LISTED SCHEDULE 40 PVC CONDUIT MAY BE USED FOR UNDERGROUND RUNS. EXPANSION JOINTS AT 75 FEET ON CENTER OR AS REQUIRED BY MFR. ALL BENDS SHALL BE MANUFACTURED.

.04 NON-METALLIC CONDUIT INSTALLED BELOW CONCRETE FLOORS MAY BE INSTALLED IN THE FILL, HOWEVER, A PORTION OF THE CONCRETE FILL MATERIAL MUST BE PLACED AROUND THE CONDUIT FOR RIGID SUPPORT. NON-METALLIC CONDUIT OUTSIDE THE FILL SHALL BE BURIED A MINIMUM OF 18" BELOW GRADE. NON-METALLIC CONDUIT SHALL BE PROVIDED WITH CODE SIZE COPPER BOND WIRE INSIDE THE CONDUIT FOR ELECTRICAL CONTINUITY, AND SHALL BE INSTALLED IN ACCORDANCE TO NEC ARTICLE NO. 250. WRAPPED RIGID STEEL ELBOWS SHALL BE USED FOR RISERS ON PVC CONDUIT RUNS AND SHALL BE GROUNDED.

CONDUIT PLACED IN A CONCRETE SLAB SHALL BE LARGER THAN 3/4" TRADE SIZE DIAMETER AND CONDUIT SMALLER THAN 3/4" SHALL BE USED FOR UNDERGROUND CIRCUITS. CONDUIT SHALL HAVE MINIMUM 1" CONCRETE COVER. NO CONDUIT SHALL BE IMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, EXCEPT FOR LOCAL OFFSETS. NO CONDUIT SHALL BE PLACED BETWEEN THE REINFORCINGSTEEL AND THE BOTTOM OF THE SLAB.

ALL EMPTY CONDUITS SHALL BE PROVIDED WITH PULL WIRE.

.06 EMT OR FLEX FITTINGS

FOR EMT, OR MALLEABLE IRON, COMPRESSION AND SET SCREW (DOUBLE SET SCREW). FOR FLEXIBLE CONDUIT, COMPRESSION OR CLAMP TYPE CONNECTORS SHALL HAVE INSULATED THREADS.

.07 MC CABLE

METAL CLAD CABLE MAY BE USED IN LIEU OF EMT CONDUIT AND WIRE FOR BRANCH CIRCUIT WIRING IF ACCEPTABLE TO AUTHORITIES.

16140 WIRING DEVICES

RECEPTACLES SHALL BE FURNISHED AS INDICATED BELOW:

	20 AMP 120 VOLT DUPLEX	HUBBELL #5362 W/#P8 COVERPLATE
WP GFI	20 AMP 120 VOLT DUPLEX, WEATHERPROOF	HUBBELL #GFWRST20 W/WP26E COVERPLATE
GFI	20 AMP 120 VOLT DUPLEX, GROUND FAULT	HUBBELL # GFRST20 W/#PJ26 COVERPLATE (INDOORS)
	20 AMP 120 VOLT FOURPLEX	HUBBELL (2)#5362 W/#P82 COVERPLATE
IG	20 AMP 120 VOLT DUPLEX, ISOLATED GROUND	HUBBELL # 1G-5362 W/#P8 COVERPLATE

WHEN SURFACE WEATHERPROOF MOUNTING IS REQUIRED, RECEPTACLES SHALL BE MOUNTED IN AN FS CONDUIT BOX.
ELEVATION OF EACH RECEPTACLE SHALL BE AT THE FLOOR PLUS 18" TO CENTER UNLESS OTHERWISE NOTED.

ALL SWITCHES SHALL BE FURNISHED IN ACCORDANCE WITH THE FOLLOWING TABLE. SWITCHES SHALL BE OF THE SAME MANUFACTURER AS THE RECEPTACLES FURNISHED.

$	20 AMP 1 POLE	HUBBELL #1221-1 WITH #P1 COVERPLATE
$3	20 AMP 3 POLE	HUBBELL #1223-1 WITH #P1 COVERPLATE

COVERPLATES FOR RECEPTACLES, SWITCHES AND OUTLETS SHALL GENERALLY BE PLASTIC, WITH COLOR AS SELECTED BY THE ARCHITECT.

16130 BOXES

BOXES IN EXPOSED OR WET LOCATIONS SHALL BE CAST STEEL CONDUIT BODIES. IN CONCEALED LOCATIONS, THEY SHALL BE SHEET STEEL BOXES WITH GALVANIZED OR SHERARDIZED FINISH, NEOPRENE GASKETED, SCREWED COVERS.

SHEET STEEL BOXES SHALL BE STANDARD ONE-PIECE KNOCKOUT BOXES. WHERE OUTLETS ARE INSTALLED IN CONCRETE SLABS, BOXES SHALL BE CONCRETE CAST TYPE BOXES. BOXES SHALL NOT BE LESS THAN 4" IN DIAMETER AND 1-1/2" DEEP. OUTLET BOXES SET IN CONCRETE SHALL BE SET TO HAVE FINAL OPENING FLUSH WITH FINISH SURFACE.

CAST-METAL CONDUIT BODIES SHALL BE CROUSE-HINDS CONDUITS, APPLETON UNILETS, OR APPROVED EQUIVALENT. BOXES SHALL BE ARRANGED WITH THREADED CONNECTORS FOR RIGID CONDUIT. ALL CONDUIT BODIES SHALL HAVE SUITABLE COVERS, WHICH SHALL BE PROVIDED WITH GASKET FOR EXTERIOR AND MOIST LOCATIONS.

POWER / PHONE FLOOR OUTLETS SHALL BE STEEL CITY #664 WITH # 664CST COVER (VERIFY COLOR), #664-BP PHONE PLATE, #664RP RECEPTACLE PLATE AND 20A DUPLEX RECEPTACLE. PHONE COMPARTMENT TO HAVE 3/4" E.C. TO CEILING SPACE VIA FLOOR / WALL.

OUTLETS SET IN FURRED CEILING AND STUD WALLS SHALL BE ANCHORED TO THE CEILING OR WALL STRUCTURE WITH SUITABLE STEEL STRAPS.

OUTLET BOXES SHALL BE USED AS PULL AND JUNCTION BOXES WHEREVER POSSIBLE AND WHERE REQUIRED. BOXES IN PLASTERED WALLS OR CONCRETE BLOCK WALLS IN FINISHED AREAS AND CEILINGS SHALL HAVE TWO GANG RAISED PLASTER RINGS AND BLANK WALL PLATE. OTHER BOXES SHALL HAVE BLANK COVERS.

WHERE OTHER THAN OUTLET BOXES ARE REQUIRED, PULL AND JUNCTION BOXES SHALL BE CONSTRUCTED OF GALVANIZED STEEL CONFIRMING TO CODE REQUIREMENTS. EXTERIOR BOXES SHALL BE OF WEATHERPROOF CONSTRUCTION AND SHALL BE PROVIDED WITH NEOPRENE COVER GASKETS. BOXES SHALL BE RIGIDLY ATTACHED TO THE STRUCTURE, INDEPENDENT OF ANY CONDUIT SUPPORT.

FINAL LOCATION OF SURFACE FEATURES

SHALL BE ACCOMPLISHED IN THE FIELD, SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE LOCATION OF ALL SWITCHES, FIXTURES, PANELS, ETC. AND THEIR PROXIMITY AND RELATIONSHIP TO ALL VISIBLE FEATURES OF EQUIPMENT FURNISHED BY OTHER TRADES, SHALL BE MADE KNOWN TO THE ARCHITECT. IN CASE OF CONFLICT BETWEEN TRADES, OR BETWEEN A TRADE AND THE ARCHITECT, THE DECISION OF THE ARCHITECT SHALL BE FINAL AND HIS INSTRUCTIONS IN THESE MATTERS SHALL BE FOLLOWED BY ALL CONCERNED.

PAINTING

ALL EXPOSED ELECTRICAL EQUIPMENT, CONDUIT, FLUSH PANEL FRONT, TRANSFORMER, SWITCHES, SWITCHBOARDS, PANELS AND SIMILAR ITEMS SHALL BE PAINTED AS SPECIFIED UNDER THE PAINTING SECTION OF THESE SPECIFICATIONS.

CLEANING UP PREMISES

AT ALL TIMES KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY EMPLOYEES. METAL FLOOR PANS SHALL BE PROVIDED PIPE THREADING MACHINES AND BENCHES AND SHALL BE USED AT ALL TIME TO PREVENT CONCRETE FLOORS BECOMING OIL SOAKED. UPON COMPLETION OF THE JOB, REMOVE ALL DEBRIS, CLEAN ALL SWITCHPLATES, FIXTURES, PANEL TRIMS AND IN GENERAL, LEAVE THE PREMISES IN A CLEAN AND TIDY CONDITION.

ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE SPECIFICATION GRADE EQUIPMENT IS ACCEPTABLE AS TO MANUFACTURER. SUBSTITUTIONS SHALL NOT CAUSE OR CONTRIBUTE TO CHANGES UNLESS THESE CHANGES ARE APPROVED BY THE ARCHITECT PRIOR TO SUBSTITUTION.

ITEMS. CAREFUL CHECKING MUST BE MADE TO VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, REQUIREMENTS, SPACE ALLOCATIONS, AND THAT THE WEIGHTS ARE NOT EXCESSIVE.

POWER DISTRIBUTION EQUIPMENT: SQUARE D, SIEMENS, CUTLER HAMMER, GENERAL ELECTRIC, SUN VALLEY ELECTRIC

WIRE AND CABLES: GENERAL CABLE, ANACONDA, CAPITOL, CIRCLE AW, GENERAL ELECTRIC, OKONITE, ROME, SIMPLEX, KAISER.

LOCAL WALL SWITCHES, RECEPTACLES, PILOT LIGHTS: PASS AND SEYMOUR, SIERRA, BRYANT, CIRCLE F, GENERAL ELECTRIC, HUBBELL, RUSSELL & STOLL, ARROW-HART.

DEVICE PLATES: HUBBELL, SLATER, PASS AND SEYMOUR, SIERRA, BRYANT, ARROW-HART, LEVITON.

LAMPS: GENERAL ELECTRIC, PHILLIPS, SYLVANIA.

CONDUIT: TRIANGLE, ALLIED, WHEATLAND, WESTERN, REPUBLIC,

FITTINGS: THOMAS AND BETTS, APPLETON, CROUSE-HINDS.

CAST OUTLET BOXES: CROUSE-HINDS, APPLETON.

BALLASTS: ADVANCE, GENERAL ELECTRIC, OSRAM/SYLVANIA, UNIVERSAL

FLOOR BOXES: HUBBELL, LEW STEEL CITY.

OUTLET BOXES: RACO, STEEL CITY, SLATER.

GROUNDING

THE NEUTRAL CONDUCTORS AND ALL OTHER EXPOSED NON-CURRENT CARRYING METAL PARTS AS REQUIRED BY CODE SHALL BE GROUNDED. GROUNDING BUSHING SHALL BE USED AS REQUIRED AND SHALL BE O.Z. INSULATED TYPE BL OR APPROVED EQUAL. NO GROUNDING SHALL BE MADE TO GAS PIPING. WHERE EQUIPMENT OR DEVICES ARE SERVED BY NON-METALLIC DUCTS, ENCLOSURES SHALL BE GROUNDED BY MEANS OF A CODE SIZE BARE OR GREEN INSULATED EQUIPMENT GROUND WIRE INSTALLED IN THE DUCT WITH THE CURRENT CARRYING CONDUCTORS AND BE BONDED SECURELY IN EACH CABINET TERMINATING THE GROUND WIRE. COPPER JUMPERS SHALL BRIDGE FLEXIBLE CONDUIT AND BE INSTALLED IN THE CONDUIT. ALL SERVICE GROUNDS SHALL BE IN ACCORDANCE WITH THE UFER GROUND.

ALL EMT, FLEXIBLE CONDUIT, MC CABLE, OR PVC CONDUIT SHALL BE PROVIDED WITH AN INSULATED GREEN GROUND WIRE.

PANEL A

PANEL LABEL: A — VOLTAGE: 208/120 — MAIN CIRCUIT BREAKER: — PANEL MOUNTING: SURFACE
BUS AMP RATING---: 200 — PHASE: 3 — MAIN LUGS ONLY: 200
PANEL LOCATION---: SEE PLAN — WIRE: 4 — SUB FEED LUGS: — PANEL NEUTRAL BUS: FULL
MINIMUM AIC RATING: 10,000 — GROUND BUS: YES — FEED THROUGH LUGS: — NEMA RATING: 1
VOLTAGE: 208 — EXIST. BRYANT LOAD CENTER

CIRCUIT DESCRIPTION	LOAD (VA) A	B	C	BREAKER AMP	POLE	CKT	PH	CKT	BREAKER AMP	POLE	LOAD (VA) A	B	C	CIRCUIT DESCRIPTION
EXIST. AIR COMPRESSOR	2496			30	2	1	A	2	20/1	20/1	2160			RECEPTS/ RECEPTS
		2496				3	B	4	20/1	30/2				SPARE/ SPARE
EXIST. AIR COMPRESSOR			1656	20	1	5	C	6	20/1	30/2				SPARE/ SPARE
SPARE				40	3	7	A	8	30	3				SPARE
						9	B	10						
						11	C	12						
HEATER NORTH/ SPARE	1500			20/1	20/1	13	A	14	60	2	2600			EXIST. A/C UNIT ABOVE MECH. ROOM
SPARE/SPARE				20/1	20/1	15	B	16				2600		
SPARE/SPARE				20/1	20/1	17	C	18	20/1	20/1			720	NEW RECEPTS - APPARATUS BAY
SPARE/SPARE				20/1	20/1	19	A	20	20/1	20/1	1080			NEW RECEPTS - LOCKER/ FACILITIES
SPARE				50	3	21	B	22	20/1	20/1		720		NEW RECEPTS FACILITIES
						23	C	24	50	2				SPARE
						25	A	26						
NEW ROOFTOP A/C UNIT AC-4		2616		40	3	27	B	28	20/1	50/2		5200		50A OUTLET UNDER PANEL/
(21.8 FLA)			2616			29	C	30	20/1	50/2			5200	COKE MACHINE
	2616					31	A	32	20	1	1080			RECEPTS - SOUTH GARAGE
DRYER ENGINE ROOM		2500		30	2	33	B	34	20	1		1080		RECEPTS - SOUTH GARAGE
			2500			35	C	36	20	1			1080	RECEPTS - SOUTH GARAGE
TOTALS	6612	7612	6772								6920	9600	7000	

A PHASE 13532 — B PHASE 17212 — C PHASE 13772 — TOTAL VA 44516
TOTAL KVA 44.5
TOTAL AMPS 123.6

PANEL EM

PANEL LABEL: EM — VOLTAGE: 480/277 — MAIN CIRCUIT BREAKER: — PANEL MOUNTING: SURFACE
BUS AMP RATING---: 400 — PHASE: 3 — MAIN LUGS ONLY: 400
PANEL LOCATION---: SEE PLAN — WIRE: 4 — SUB FEED LUGS: — PANEL NEUTRAL BUS: FULL
MINIMUM AIC RATING: 14,000 — GROUND BUS: YES — FEED THROUGH LUGS: — NEMA RATING: 1
VOLTAGE: 480 — EXIST. CHALLENGER PRL1 PANELBOARD

CIRCUIT DESCRIPTION	LOAD (VA) A	B	C	BREAKER AMP	POLE	CKT	PH	CKT	BREAKER AMP	POLE	LOAD (VA) A	B	C	CIRCUIT DESCRIPTION
EXIST. REFRIGERATOR	720			20	1	1	A	2	20	1	720			EXIST. OFFICE RECEPTS
EXIST. COUNTER RECEPTS		180		20	1	3	B	4	20	1		200		EXIST. FACP
EXIST. FREEZER			300	20	1	5	C	6	20	1			360	EXIST. TMB
EXIST. GENERATOR BLOCK HEATER	300			20	1	7	A	8	20	1	200			EXIST. P/A AMPLIFIER
EXIST. MOTORIZED DOOR		1176		20	1	9	B	10	20	1		720		SPARE
EXIST. MOTORIZED DOOR			1176	20	1	11	C	12	20	1			360	SPARE
EXIST. MOTORIZED DOOR	1176			20	1	13	A	14	20	1	1080			EXIST. DORM ROOM RECEPTS
EXIST. LIGHTS - APPARATUS BAYS		1600		20	1	15	B	16	20	1		540		EXIST. DORM ROOM RECEPTS
EXIST. LIGHTS - APPARATUS BAYS			1400	20	1	17	C	18	20	1			360	EXIST. COUNTER RECEPTS
EXIST. WH/ CIRC PUMP/ CONTROLS	500			20	1	19	A	20	20	1	500			EXIST. MEZZANINE LIGHTS
EXIST. LIGHTS - OFFICE		1200		20	1	21	B	22	20	1		1176		EXIST. MOTORIZED DOOR
EXIST. LIGHTS - TOILET ROOMS			700	20	1	23	C	24	20	1			1176	EXIST. MOTORIZED DOOR
EXIST. LIGHTS - DORM/ LOUNGE	800			20	1	25	A	26	20	1	1080			EXIST. OFFICE RECEPTS
EXIST. LIGHTS - MAINTENANCE		1600		20	1	27	B	28	20	1		1080		EXIST. SERVER ROOM RECEPTS
EXIST. LIGHTS - MAINTENANCE			1800	20	1	29	C	30	20	1				NEW LIGHTS - LOCKER ROOM/ FACILITIES
EXIST. MINI SPLIT	1560			30	2	31	A	32	50	2	5000			EXIST. SHORE POWER/ UTILITY 71
		1560				33	B	34				5000		
EXIST. BABY BOX			500	20	1	35	C	36						BUSSED SPACE
BUSSED SPACE				25	3	37	A	38	25	3	1848			EXIST. A/C UNIT - LOCKER ROOM
BUSSED SPACE						39	B	40				1848		
BUSSED SPACE						41	C	42					1848	
TOTALS	5056	7316	5876								10428	10564	4104	

A PHASE 15484 — B PHASE 17880 — C PHASE 9980 — TOTAL VA 43344
TOTAL KVA 43.3
TOTAL AMPS 52.1

PANEL B

PANEL LABEL: B — VOLTAGE: 208/120 — MAIN CIRCUIT BREAKER: — PANEL MOUNTING: SURFACE
BUS AMP RATING---: 200 — PHASE: 3 — MAIN LUGS ONLY: 200
PANEL LOCATION---: SEE PLAN — WIRE: 4 — SUB FEED LUGS: — PANEL NEUTRAL BUS: FULL
MINIMUM AIC RATING: 10,000 — GROUND BUS: YES — FEED THROUGH LUGS: — NEMA RATING: 1
VOLTAGE: 208 — EXIST. CHALLENGER PRL1 PANELBOARD

CIRCUIT DESCRIPTION	LOAD (VA) A	B	C	BREAKER AMP	POLE	CKT	PH	CKT	BREAKER AMP	POLE	LOAD (VA) A	B	C	CIRCUIT DESCRIPTION
EXIST. LOUNGE RECEPTS	540			20	1	1	A	2	20	1	1080			EXISTING GARAGE RECEPTS
EXIST. WASHER		1500		20	1	3	B	4	20	1		1080		EXIST. APPARATUS RECEPTS
EXIST. COUNTER RECEPTS			180	20	1	5	C	6	20	1			1000	EXIST. MEZZANINE LIGHTS
EXIST. COUNTER RECEPTS	180			20	1	7	A	8	20	1	1080			EXIST. MEZZANINE RECEPTS
EXIST. DW/ DISPOSAL		1500		20	1	9	B	10	20	1		1080		EXIST. MEZZANINE RECEPTS
EXIST. LIGHTS - OFFICES			1100	20	1	11	C	12	20	1			900	EXIST. OUTDOOR BUILDING LIGHTS
EXIST. DRINKING FOUNTAIN	250			20	1	13	A	14	20	1	900			EXIST. OUTDOOR BUILDING LIGHTS
EXIST. LIGHTS - DORM		1200		20	1	15	B	16	20	1		800		EXIST. OUTDOOR GROUND LIGHTS
EXIST. LIGHTS - LOUNGE			900	20	1	17	C	18	20	2			1000	EXIST. RICE COOKER
EXIST. IRRIGATION/ LAWN STATUE	540			20	1	19	A	20			1000			
SPARE (REMOVED RTU'S)				20	1	21	B	22	50	2				SPARE
SPARE (REMOVED RTU'S)				20	1	23	C	24						
EXIST. EXHAUST FAN	718			15	3	25	A	26	20	3	1320			EXIST. MAKEU P AIR UNIT
		718				27	B	28				1320		
			718			29	C	30					1320	
EXIST. COMPRESSOR	5796			80	3	31	A	32	100	2	3120			EXIST SUBFEED PANEL B1
		5796				33	B	34				3120		
			5796			35	C	36						BUSSED SPACE
EXIST. EXHAUST FAN	387			25	3	37	A	38	25	3	1848			EXIST. A/C UNIT
		387				39	B	40				1848		
			387			41	C	42					1848	
TOTALS	8411	11101	9081								10348	9248	6068	

A PHASE 18759 — B PHASE 20349 — C PHASE 15149 — TOTAL VA 54257
TOTAL KVA 54.3
TOTAL AMPS 150.6

PANEL B1

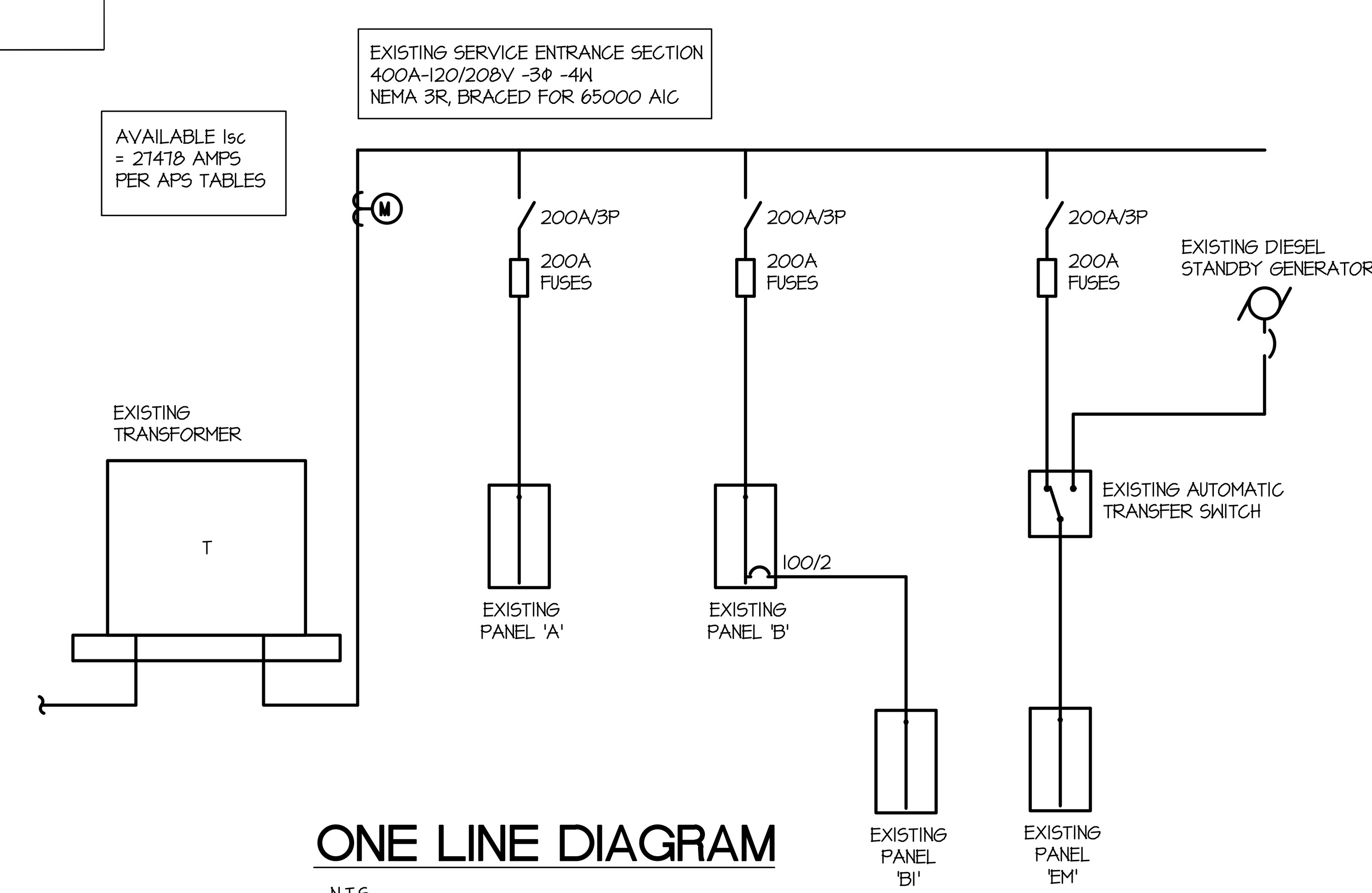
PANEL LABEL: B1 — VOLTAGE: 208/120 — MAIN CIRCUIT BREAKER: — PANEL MOUNTING: SURFACE
BUS AMP RATING---: 100 — PHASE: 1 — MAIN LUGS ONLY: 100
PANEL LOCATION---: SEE PLAN — WIRE: 3 — SUB FEED LUGS: — PANEL NEUTRAL BUS: FULL
MINIMUM AIC RATING: 10,000 — GROUND BUS: YES — FEED THROUGH LUGS: NO — NEMA RATING: 1
VOLTAGE: 208 — EXIST. SIEMENS LOAD CENTER

CIRCUIT DESCRIPTION	LOAD (KVA) A	B	BREAKER AMP	POLE	CKT	PH	CKT	BREAKER AMP	POLE	LOAD (KVA) A	B	CIRCUIT DESCRIPTION
EXIST. AIR HAWK	1040		20	2	1	A	2	20	2	1040		EXIST. AIR HAWK
		1040			3	B	4				1040	
EXIST. AIR HAWK2	1040		20	2	5	A	6					BUSSED SPACE
		1040			7	B	8					BUSSED SPACE
TOTALS	2080	2080								1040	1040	

A PHASE 3120 — B PHASE 3120 — TOTAL VA 6240
TOTAL KVA 6.2
TOTAL AMPS 30.0

LOAD CALCULATIONS

PANEL 'A'	=	123.6	AMPS
PANEL 'B'	=	150.6	AMPS
PANEL 'EM'	=	120.3	AMPS
SERVICE TOTAL	=	394.5	AMPS



ONE LINE DIAGRAM

N.T.S

NOTES:
1. PROVIDE ARC FLASH HAZARD WARNING LABELS FOR ALL ELECTRICAL EQUIPMENT PER NEC 110.16.
2. PROVIDE CIRCUIT DIRECTORY AND SOURCE OF SUPPLY LABELS FOR ALL PANELBOARDS PER NEC 408.4.
3. PROVIDE AVAILABLE FAULT CURRENT LABEL AT SERVICE ENTRANCE PER NEC 110.24.

Bowie Tiglas Engineering Inc.
Consulting Engineers
Phone: 602.992.3900
24820 N. 16th Avenue
Suite 170
Phoenix, AZ. 85085
BTE # 25038E

Registered Professional Engineer (Electrical) CERTIFICATE NO. 54087 HAROLD H. BOWIE Date Signed 5/01/25 ARIZONA, USA Expires 12/31/27

MICHAEL TAYLOR ARCHITECTS, INC.
118 SOUTH PLEASANT STREET PRESCOTT, ARIZONA 86303
PHONE 928 . 445 . 0626 WWW . MTAI . NET

AN ENVIRONMENTAL IMPROVEMENT FOR

PRESCOTT FIRE DEPT. #71

335 WHITE SPAR ROAD
PRESCOTT, AZ 86303
109-15-024A
ZONING: BG

MTAI PROJECT NUMBER: 25009
PLOT DATE:
DATE:
DESCRIPTION: BUILDING REMODEL & SITE IMPROVEMENTS

E-3

OF 3 SHEETS