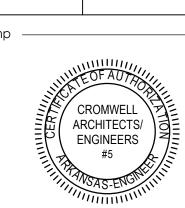


I 201 S.E. EAGLE WAY
RENTONVILLE ARKANSAS 72712

CONSTRUCTION
DOCUMENTS





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2023-049
ue Date
06-30-2023

TITLE SHEET

G-001



CONSTRUCTION DOCUMENTS - 1201 S.E. EAGLE WAY

JUNE 30th 2023

NARRATIVE:

REMODELING FORMER PHYSICAL PLANT ON NWACC'S CAMPUS FOR NEW BIKE TRAIL BUILDING PROGRAM. SCOPE OF WORK TO INCLUDE NEW HVAC, WINDOWS/DOORS, INTERIOR FINISHES AND EQUIPMENT. RAMP AND FLATWORK AT NEW ENTRY; NO OTHER EXTERIOR SCOPE OF WORK TO OCCUR

CLIENT:

NORTHWEST ARKANSAS
COMMUNITY COLLEGE (NWACC)
Megan Bolinder/Jack Thompson
Bentonville, AR 72712

DESIGN TEAM:

Cromwell Architects Engineers
100 W Emma Avenue, Suite 201
Springdale, AR 72764
479-320-2741 cromwell.com
Main Contact:
David Mortensen

ARCHITECTURAL ABBREVIATIONS

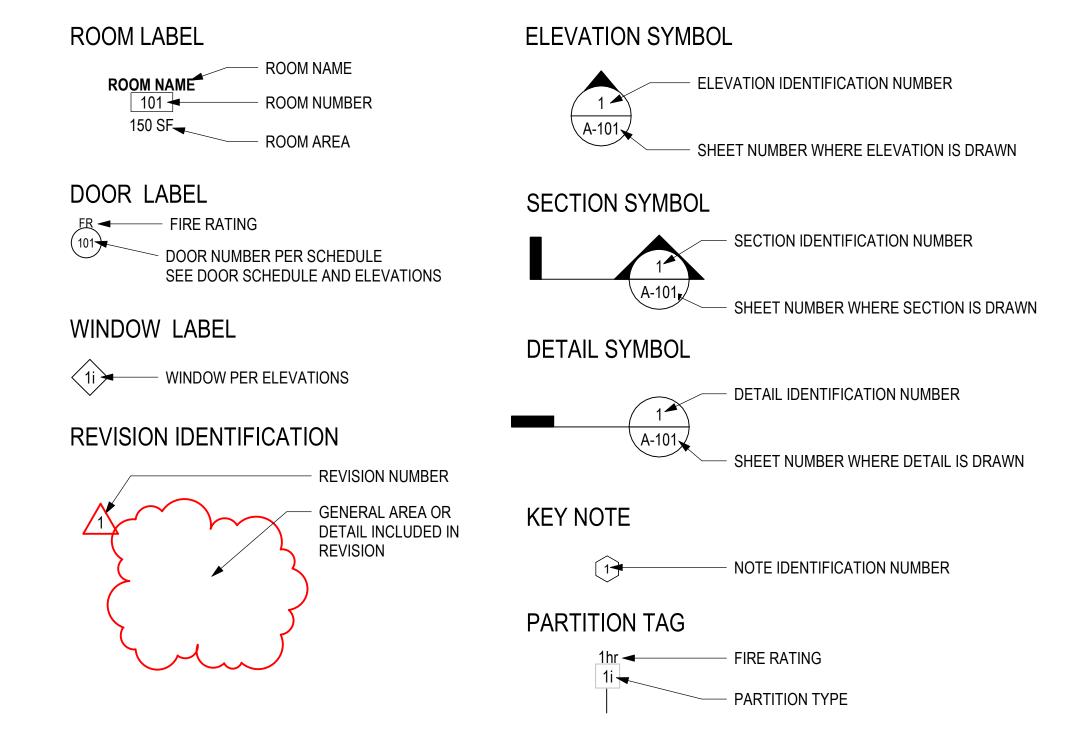
	HIIEGIUKAL ADDI		
AB ACOUST.	ANCHOR BOLT ACOUSTICAL	KG LCB	KILOGRAM LIQUID CHALK BOARD
ND	AUXILIARY DRAIN	LM	LINEAL METER
ADJ.	ADJUSTABLE	LG	LONG
ADMIN. A.F.F.	ADMINISTRATION ABOVE FINISH FLOOR	MAS MATL.	MASONRY MATERIAL
AGGRE.	AGGREGATE	MAX	MAXIMUM
ALUM.	ALUMINUM	MB	MINI-BLINDS
3D 3.F.F.	BOARD BELOW FINISH FLOOR	M.D. MECH.	METAL DECK MECHANICAL
s.r.r. BLKG	BLOCKING	MEMB.	MEMBRANE
3M	BEAM	MEZZ.	MEZZANINE
3.0.	BOTTOM OF	MFR	MANUFACTURER
3PL 3S	BASE PLATE BOTH SIDES	MISC. MO	MISCELLANEOUS MASONRY OPENING
BTWN.	BETWEEN	M.S.	METAL STUD
3.U.R.	BUILT-UP ROOF	MTL.	METAL
CAL. CL	CALIPER CENTERLINE	N.I.C. NS	NOT IN CONTRACT NON-SHRINK
CFC	COMBINED FACILITIES COMPLEX	N.T.S.	NOT TO SCALE
CSF	COMBINED SHARED FACILITIES	OC	ON CENTER
CG CJ	CORNER GUARD CONTROL JOINT	OD OFW	OUTSIDE DIAMETER OUTSIDE FACE OF WALL
CLG	CEILING	OPNG	OPENING
CMU	CONCRETE MASONRY UNIT	OPP.	OPPOSITE
COL.	COLUMN	P.LAM	PLASTIC LAMINATE
CONC. CONC. BLK	CONCRETE CONCRETE BLOCK	PL PLYWD.	PLATE PLYWOOD
CONST.	CONSTRUCTION	PNL	PANEL
CONT.	CONTINUOUS	PROD	PRODUCE
CT DB	CERAMIC TILE DECK BEARING	KG/SQM KG/SQCM	KILOGRAMS PER SQUARE METER KILOGRAMS PER SQUARE CENTIMETER
OIM.	DIMENSION	QTY	QUANTITY
OR	DOOR	R	RISER
OTL	DETAIL	R	RADIUS
DWG EA	DRAWING EACH	RD REFRIG	ROOF DRAIN REFRIGERATION
Ξ.B.	EXPANSION BOLT	REINF	REINFORCING
<u> </u>	EXHAUST FAN	REQD	REQUIRED
E.I.F.S. EJ	EXTERIOR INSULATION AND FINISH SYSTEM EXPANSION JOINT	RM RPP	ROOM RACK POST PROTECTOR
ELEC.	ELECTRICAL	SC	SOLID CORE
ELEV.	ELEVATION	SCHED.	SCHEDULE
EQ FOLUD	EQUAL	SECT.	SECTION
EQUIP. EW	EQUIPMENT EACH WAY	SHT. SIM.	SHEET SIMILAR
EWC	ELECTRIC WATER COOLER	SPECS	SPECIFICATIONS
EXIST.	EXISTING	SMFE	SURFACE MOUNTED FEC
EXP EXT.	EXPANSION EXTERIOR	SRFE S	SEMI-RECESSED FEC SEWER
=/(1.	FEMALE	SS	SANITARY SEWER
-D	FLOOR DRAIN	S.S.	STAINLESS STEEL
E EC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	SSC SST	STAINLESS STEEL CLOSURE STAINLESS STEEL THRESHOLD
F.F.E.	FINISH FLOOR ELEVATION	STB	STAFF TRAINING BUILDING
FIN.	FINISH	STL	STEEL
-LR	FLOOR	STO.	STORAGE
FND F.O.C.	FOUNDATION FACE OF CONCRETE	STRUCT. SYM.	STRUCTURAL SYMBOL
RP .	FIBERGLASS REINFORCED PANEL	T	TREAD
FTG	FOOTING	T & B	TOP AND BOTTOM
GA GALV	GAGE GALVANIZED	THK THRESH.	THICK THRESHOLD
GR	GUARD RAIL	TJ	TOOLED JOINT
GP	GUARD POST	TO	TOP OF
GYP GYP.BD.	GYPSUM GYPSUM BOARD	T.O.S. T.O.P.	TOP OF STEEL TOP OF PANEL
317.DD.	HIGH	TS	TUBE STEEL
HD	HANDICAP	TYP	TYPICAL
HC	HOLLOW CORE	T.O.M.	TOP OF MASONRY
HDW HM	HARDWARE HOLLOW METAL	U.N.O. VCT	UNLESS NOTED OTHERWISE VINYL COMPOSITION TILE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
1P	HORSEPOWER	VEST.	VESTIBULE
HT NEO	HEIGHT	V.I.F.	VERIFY IN FIELD
NFO. NSUL.	INFORMATION INSULATION	W W/	WIDE WITH
NT	INTERIOR	WC	WATER CLOSET
JAN	JANITOR.	WD	WOOD
JT JST	JOINT JOIST	WDW WG	WINDOW WALL GUARD
(CJ	KEYED CONTROL JOINT	W/O	WITHOUT
_AV.	LAVATORY	WP	WATERPROOFING
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

INDEX OF DRAWINGS

SHEET NUMBER	SHEET NAME	REVISION DATE
GENERAL INI	FORMATION	
G-001	TITLE SHEET	
G-002	INDEX, SYMBOLS & ABBREV.	
G-003	GENERAL NOTES, DETAILS, & PARTITION TYPES	
LIFE SAFETY	,	
GI001	LIFE SAFETY CODE ANALYSIS	
GI101	LIFE SAFETY PLAN	
CIVIL		
VF101	SITE SURVEY	
CD101	SITE DEMOLITION PLAN	
CS101	SITE LAYOUT PLAN	
CG101	SITE GRADING PLAN	
C-501	SITE DETAILS	
C-502	SITE DETAILS	
STRUCTURA	L.	
S-001	STRUCTURAL DESIGN CRITERIA, GENERAL	
	NOTES, AND COMPONENTS AND CLADDING PRESSURES	
S-101	FOUNDATION PLAN	
S-102	ENLARGED CANOPY FOUNDATION PLANS	
S-103	ROOF FRAMING PLAN	
S-104	ENLARGED CANOPY FRAMING PLANS	
S-201	CANOPY DETAILS	
S-202	MISC. DETAILS	
ARCHITECTL	JRAL	
AS101	ARCH. SITE PLAN	
AS401	ARCH. SITE PLAN LARGE SCALE PLANS	
AD101	DEMOLITION FLOOR PLANS	
AD102R	DEMOLITION REFLECTED CEILING PLAN	
AD201	DEMOLITION ELEVATIONS	
A-101	FLOOR PLANS	
A-101R	REFLECTED CEILING PLANS	
A-201	EXTERIOR ELEVATIONS	
A-301	BUILDING SECTIONS	
A-302	BUILDING SECTIONS	
A-303	ENTRY WALL SECTIONS	
A-400	OVERALL ROOF PLAN AND DETAILS	
A-401	ENLARGED PLANS	
A-402	INTERIOR ELEVATIONS	
A-501	SITE DETAILS	
A-502	PLAN DETAILS	
A-503	SECTION DETAILS	
A-520	DOOR AND WINDOW DETAILS	
A-521	DOOR AND WINDOW DETAILS	
A-601	ROOM FINISH SCHEDULE, NOTES AND LEGENDS	
INTERIORS	ELOOD EINIOLEDI AN	<u> </u>
I-101	FLOOR FINISH PLAN	
IF101	FIRST FLOOR FURNITURE PLAN	
EQUIPMENT	TEOLUDIAENT COLUEDIU E	Т
Q-100	EQUIPMENT SCHEDULE	
Q-101	EQUIPMENT PLANS	
Q-102	ENLARGED EQUIPMENT PLAN	
PLUMBING		
P-001	PLUMBING LEGEND AND NOTES	
PD101	PLUMBING DEMO PLAN	
P-101	FIRST FLOOR PLUMBING PLAN	
P-401	ENLARGED PLUMBING PLANS	
P-402	ENLARGED PLUMBING GAS PLAN	
P-403	ENLARGED PLUMBING COMPRESSED AIR PLAN	
P-601	PLUMBING SCHEDULES AND DETAILS	
P-901	DOMESTIC WATER RISER	
P-902	SANITARY SEWER RISER	

SHEET NUMBER	SHEET NAME	REVISION DATE
NOMBLIX	SHELLINAME	REVISION DATE
P-903	GAS RISER	
MECHANICA	L	
M-001	MECHANICAL LEGEND AND SYMBOLS	
MD101	MECHANICAL DEMOLITION	
M-101	MECHANICAL PLANS	
M-201	MECHANICAL ELEVATIONS	
M-401	ENLARGED MECHANICAL PLANS	
M-501	MECHANICAL DETAILS	
M-502	MECHANICAL DETAILS	
M-601	MECHANICAL SCHEDULES	
M-701	MECHANICAL CONTROLS	
M-901	MECHANICAL ISOMETRICS	
ELECTRICAL		
E-001	ELECTRICAL LEGEND	
ED101	ELECTRICAL DEMOLITION PLAN	
EL101	LIGHTING PLAN	
EP101	POWER PLAN	
EP102	MECHANICAL AND PLUMBING POWER PLAN	
ET101	SYSTEMS PLAN	
E-501	ELECTRICAL DETAILS	
E-601	ELECTRICAL SINGLE-LINE DIAGRAM	
E-602	ELECTRICAL SCHEDULES	
E-603	ELECTRICAL SCHEDULES	

SYMBOLS LEGEND



SECTION INDICATIONS

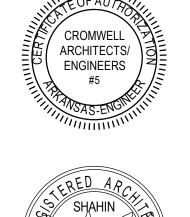
	EARTH	WOOD, FINISH CARPENTRY
44 4 4 4	CONCRETE	WOOD, BLOCKING
	GRAVEL	PLYWOOD
	BRICK	METAL
	CONCRETE MASONRY UNIT (CMU)	GLASS
	CERAMIC TILE	GYPSUM BOARD (GWB)
	ACOUSTICAL TILE	BATT INSULATION
	WOOD, ROUGH CARPENTRY	RIGID INSULATION
	COOLER/FREEZER WALL PANEL	





KANSAS COMMUNITY COLLEG

No.	Date	Description
Stan	np ———	





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Issue Date 06-30-2023

Sheet Title

INDEX, SYMBOLS & ABBREV.

G-002

GENERAL CONSTRUCTION REQUIREMENTS:

1. ALL WORK SHALL BE DONE IN A SAFE AND WORKMANLIKE MANNER AND IN STRICT ACCORDANCE WITH THE UFC, GOVERNING BUILDING CODES, NATIONAL ELECTRIC CODE, AND ALL APPLICABLE REGULATIONS AND ORDINANCES HAVING JURISDICTION.

2. THE CONTRACTOR IS TO UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS COMPLETELY. EACH ASPECT OF THE WORK MAY BE INDICATED IN ONE DISCIPLINE OR INDICATED IN MULTIPLE DISCIPLINES. REVIEW ALL INFORMATION FROM ALL DISCIPLINES AND COMPLETELY FIELD VERIFY ALL CONDITIONS BEFORE IMPACTING EXISTING CONDITIONS OR PROVIDING NEW WORK.

3. EACH SUBCONTRACTOR IS RESPONSIBLE FOR HAVING A THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS IN THEIR RELATED FIELD. THE FAILURE TO DO SO DOES NOT RELIEVE ANY RESPONSIBILITY FOR PERFORMING THIS WORK PROPERLY. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED BECAUSE OF CONDITIONS THAT OCCUR DUE TO FAILURE TO FAMILIARIZE WORKERS WITH THIS KNOWLEDGE.

4. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN THE FIELD PRIOR TO FABRICATION OF ALL ITEMS, AND IF ANY DISCREPANCIES ARE FOUND BETWEEN WHAT IS SHOWN ON THE PLANS AND WHAT EXISTS IN THE FIELD, CONTACT THE ARCHITECT TO DETERMINE THE PROPER COURSE OF ACTION. THE CONTRACTOR'S APPROVAL FOR FABRICATION INDICATES THE ACCEPTANCE OF EXISTING CONDITIONS.

5. THE OWNER SHALL OCCUPY PORTIONS OF THE FACILITY DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL CONSTRUCTION PROCEDURES WHICH WILL INTERFERE WITH THE NORMAL DAILY OPERATIONS OF THE FACILITY. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER FOR ALL INTERRUPTIONS OF UTILITY SERVICES TO THE EXISTING BUILDING PRIOR TO THE INTERRUPTION. ACCIDENTAL INTERRUPTIONS SHALL BE REMEDIED IMMEDIATELY WITH APPROPRIATE FORCES.

6. THE EXISTING BUILDING SHALL BE PROTECTED AT ALL TIMES FROM MOISTURE, DUST AND DEBRIS. INSTALL DUST PARTITIONS AS REQUIRED AND/OR AS SHOWN TO KEEP THE EXISTING PREMISES FREE FROM DUST AND DEBRIS. PROVIDE BARRICADES SEPARATING THE PUBLIC FROM CONSTRUCTION ACTIVITY.

7. ANY DAMAGE TO THE OWNER'S PROPERTY OR OWNER'S EMPLOYEES CAUSED BY THE CONSTRUCTION PROCESS SHALL BE REPAIRED/REPLACED AT NO COST TO THE OWNER OR OWNER'S EMPLOYEES.

8. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE SECURITY SYSTEM OF THE EXISTING FACILITY AT ALL TIMES. THIS INCLUDES KEEPING THE FACILITY SECURE FROM PERSONS, ENVIRONMENTAL ELEMENTS, OR HAZARDS. THE CONTRACTOR SHALL OBTAIN PERMISSION FROM THE OWNER PRIOR TO THE MODIFICATION OF ANY SECURITY SYSTEM OR THE DISABLING OF SUCH.

9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA FREE AND CLEAR OF DEBRIS. REMOVE TRASH AND DEBRIS FROM CONSTRUCTION AREA AND DO NOT ALLOW TO ACCUMULATE. NO FLAMMABLE MATERIALS/LIQUIDS MAY BE STORED IN THE EXISTING BUILDING OR THE EXPANSION DURING CONSTRUCTION. PROVIDE EXTINGUISHERS AS REQUIRED BY LOCAL AND STATE AUTHORITIES, UL LISTED 2A:20BC DRY CHEMICAL FIRE EXTINGUISHERS, ACCESSIBLE AT ALL TIMES WITHIN ALL CONSTRUCTION AREAS.

10. THE CONTRACTOR SHALL MAINTAIN THE REQUIRED NUMBER OF EXITS FROM THE FACILITY. MAINTAIN EXITS, EXIT SIGNS AND EMERGENCY LIGHTING AT ALL TIMES AS REQUIRED BY THE GOVERNING AUTHORITIES.

11. REMOVE ANY EXISTING ITEMS, SERVICES, FINISHES/OR SURFACES AS REQUIRED FOR THE INSTALLATION OF NEW CONSTRUCTION.

12. REPAIR, RE-ROUTE AND EXTEND ALL SERVICES, PIPING, CONDUIT OF EXISTING ITEMS AND EQUIPMENT AS REQUIRED DURING THE CONSTRUCTION PROCESS FOR THE COMPLETE INSTALLATION AND OPERATIONS OF NEW EQUIPMENT. THIS INCLUDES ALL ITEMS SHOWN OR NOT SHOWN ON THE DRAWINGS. RESET EXISTING EQUIPMENT OR RELATED ITEMS AS REQUIRED FOR PROPER OPERATION.

13. PATCH, REPAIR, AND REFINISH CONSTRUCTION AT INTERFACE OF NEW AND EXISTING FINISHES. FINISH NEW SURFACES AT INTERFACE TO MATCH EXISTING.

14. ALL QUESTIONS RELATING TO THE CONSTRUCTION OF THIS PROJECT SHALL BE DONE IN WRITTEN FORM USING THE "REQUEST FOR INFORMATION" FORM, INCLUDED IN THE SPECIFICATIONS, THROUGH THE GENERAL CONTRACTOR ONLY. FOLLOW INSTRUCTIONS WHEN COMPLETING AND SENDING THIS FORM.

GENERAL SITE VERIFICATION REQUIREMENTS:

15. EXISTING CONDITIONS SHOWN IN THESE PLANS ARE BASED ON LIMITED FIELD OBSERVATIONS BY THE ARCHITECT AND ORIGINAL DESIGN DRAWINGS. ALL EXISTING MATERIAL, DIMENSIONS, ELEVATIONS, AND GENERAL CONDITIONS OF THE BUILDING SHALL BE VERIFIED BEFORE PURCHASE OF MATERIAL AND CONSTRUCTION. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN PLANS AND FIELD CONDITIONS IMMEDIATELY.

16. ALL UTILITY LOCATIONS SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES (WHETHER SHOWN OR NOT) PRIOR TO THE SUBMISSION OF HIS BID OR THE COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF THE DISCOVERY OF EXISTING UTILITIES NOT SHOWN OR NOTED ON DRAWINGS. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND DEPTHS OF UNDERGROUND UTILITY SERVICES PRIOR TO ANY EXCAVATION.

GENERAL DEMOLITION REQUIREMENTS:

REFER TO ARCH DEMO SHEETS (AD101-103)

17. ALL DEMOLITION SHALL BE CARRIED OUT IN A SAFE MANNER AND IN STRICT ACCORDANCE WITH OSHA REGULATIONS.

18. THE CONTRACTOR SHALL FIELD VERIFY THE EXTENT OF DEMOLITION. THE WORK INCLUDES, BUT IS NOT LIMITED TO, THE DEMOLITION AND REMOVAL OF WALLS, CEILINGS, ROOFING, DOORS, FIXTURES, PLUMBING, MECHANICAL AND ELECTRICAL ITEMS INCLUDING CONDUITS AND DUCTWORK AS SHOWN ON DRAWING OR AS REQUIRED FOR THE INSTALLATION OF THE NEW WORK FOR A COMPLETE JOB. THE CONTRACTOR SHALL REPLACE ANY/ALL FLOOR, WALL, OR CEILING FINISHES DAMAGED AS A RESULT OF DEMOLITION. MATCH EXISTING ADJACENT FINISHES.

19. WHEN UTILITIES ARE REMOVED, CAP AND SEAL A MINIMUM OF 8" BELOW FINISH FLOOR OR A MINIMUM OF 6" ABOVE FINISH CEILING

20. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SHORING, BRACING AND SUPPORT SYSTEMS FOR EXISTING STRUCTURE AND TO KEEP THE EXISTING STRUCTURE INTACT AND IN A SAFE CONDITION DURING DEMOLITION AND NEW CONSTRUCTION. THE CONTRACTOR SHALL RETAIN A REGISTERED PROFESSIONAL ENGINEER TO DESIGN THE SHORING OR BRACING AND SPECIFY DEMOLITION PROCEDURES. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR MEANS AND METHODS OF DEMOLITION AND NEW CONSTRUCTION.

21. DURING DEMOLITION AND RECONSTRUCTION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ANY REQUIRED SAFETY BARRIERS OR BARRICADES. PROVIDE BARRICADES SO AS TO PRECLUDE INTRUSION OF PUBLIC INTO CONSTRUCTION AREAS.

22. REFER TO THE OWNER APPROVED CONSTRUCTION PHASING SCHEDULE FOR PHASING OF DEMOLITION AND NEW CONSTRUCTION. COORDINATE DEMOLITION WITH NEW CONSTRUCTION IN ORDER THAT THE FACILITY WILL HAVE UNINTERRUPTED WATER, SEWER, ELECTRICAL GAS AND FIRE PROTECTION SERVICE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING ALL NECESSARY TEMPORARY UTILITY PROVISIONS REQUIRED.

23. ALL DEMOLITION MATERIALS NOT SALVAGED BY THE OWNER SHALL BE REMOVED BY THE CONTRACTOR. COORDINATE WITH THE OWNER REGARDING MATERIALS TO BE SALVAGED BY THE OWNER. REFER ALSO TO DRAWINGS AND SPECIFICATIONS FOR SALVAGED ITEMS.

24. REMOVE EXISTING RESILIENT FLOORING SYSTEM AT EXISTING BUILDING FLOOR AREAS AND REPAIR CONCRETE SUBSTRATE FOR NEW FLOORING SYSTEM.

25. REFER TO MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL DRAWINGS FOR NECESSARY FLOOR SLAB DEMOLITION FOR THE INSTALLATION OF NEW PIPING OR CONDUITS.

26. THE CONTRACTOR SHALL USE A WET SAW FOR SLAB SAWING. NO JACK HAMMERS WILL BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE OWNER.
REMOVE EXISTING CERAMIC TILE/QUARRY TILE AT AREAS TO RECEIVE NEW FLOOR FINISH. PREPARE CONCRETE SUBSTRATE, CEMENT GROUT

INFILL DEPRESSED AREAS. FLUSH AND LEVEL FOR NEW FLOOR FINISH FOR SMOOTH TRANSITION TO ADJACENT FLOOR AREAS.

27. PROTECT ALL WATER PIPING AT AREAS OF DEMOLITION, EXPANSION AND REMODEL, WHERE EXISTING PIPING IS SUBJECT TO FREEZING. PROTECT PIPING SO AS NOT TO FREEZE.

GENERAL FLOOR PLAN NOTES:

REFER TO ARCH PLAN SHEETS (A-101-104)

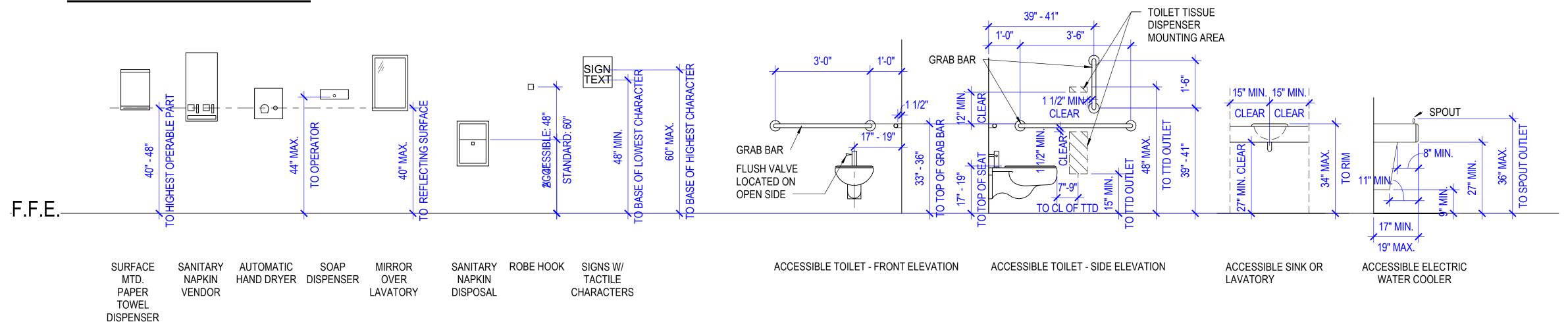
28. ALL DIMENSIONS ARE TO FACE OF CMU OR STUD UNLESS NOTED OTHERWISE.

29. CLEAN, PATCH AND REPAIR EXISTING WALL SURFACES SCHEDULED TO BE REFINISHED. ALL EXISTING GYPSUM BOARD SURFACES, WHICH ARE DAMAGED IN ANY WAY SHALL BE REPAIRED PRIOR TO THE APPLICATION OF SCHEDULED WALL.

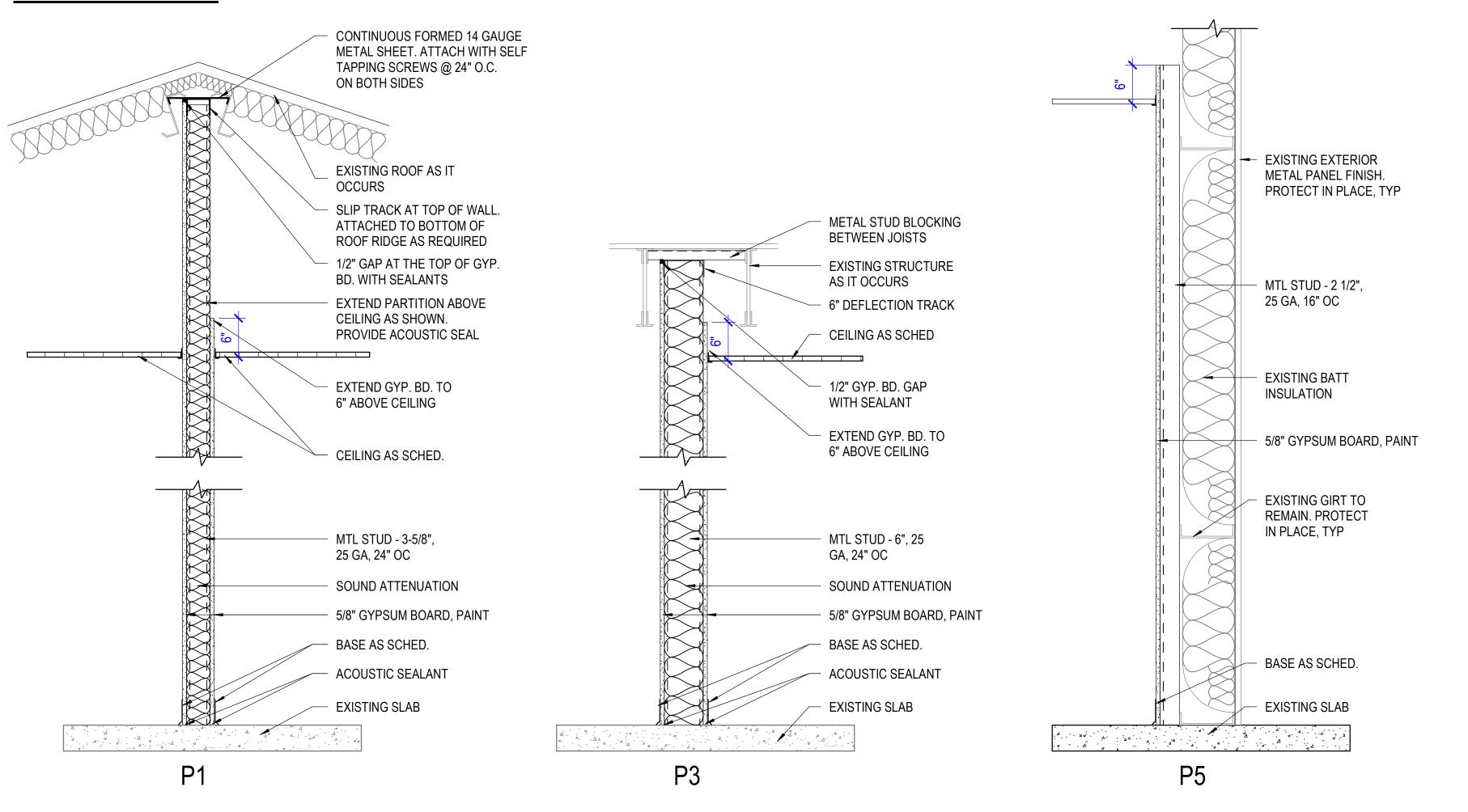
30. ALL NEW FLOORING SHALL BE PROTECTED FROM SCRATCHING, MARKING, STAINING, ETC. DURING CONSTRUCTION. ANY FLOORING THAT IS DAMAGED BY CONSTRUCTION AND DOES NOT APPEAR IN NEW CONDITION AT THE TIME OF POSSESSION WILL BE REPLACED BY THE GENERAL CONTRACTOR AT HIS EXPENSE. INSTALL TRANSITION STRIP WHERE FLOORING ABUTS EXPOSED CONCRETE FLOOR.

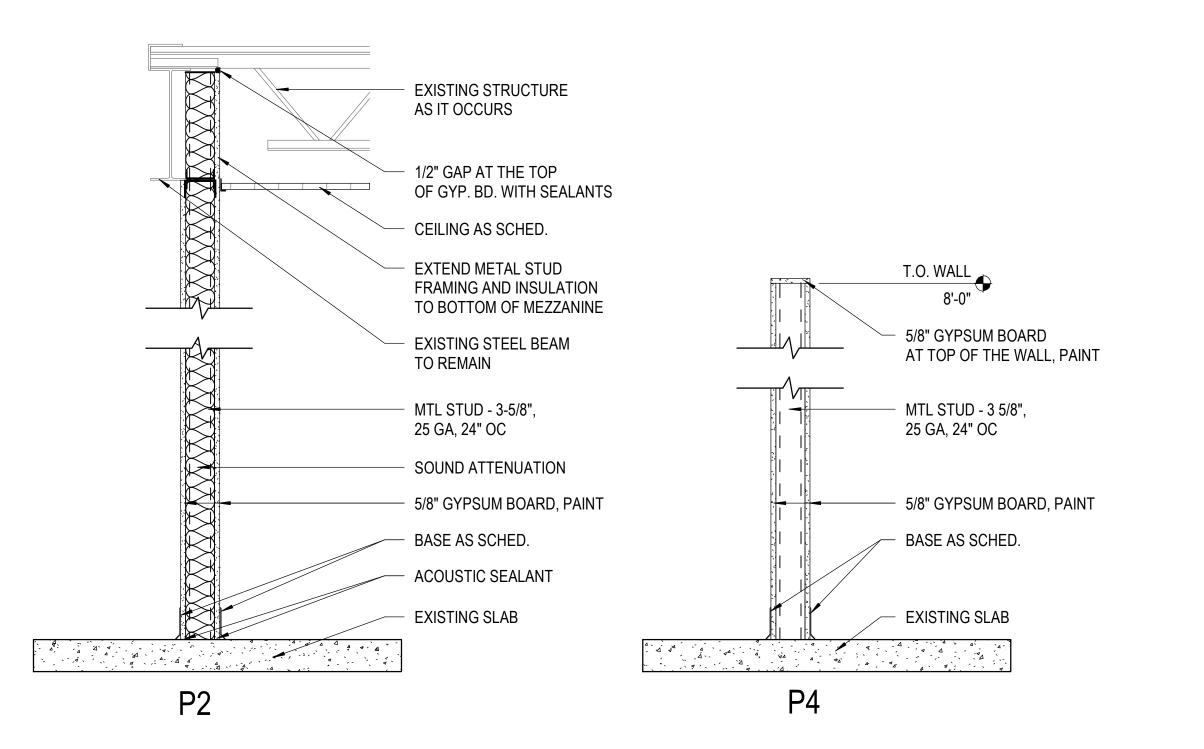
31. CLEAN ALL EXISTING HVAC GRILLES WHICH REMAIN, PRIOR TO CONTRACT COMPLETION.

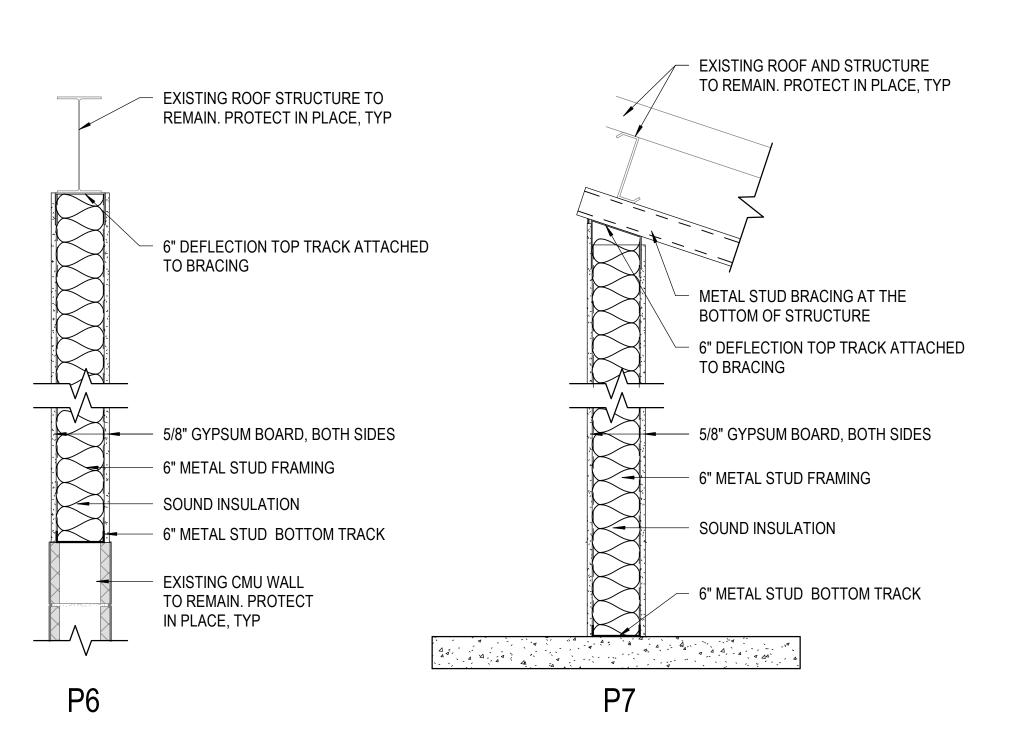
MISC. MOUNTING HEIGHTS:



PARTITION TYPES:







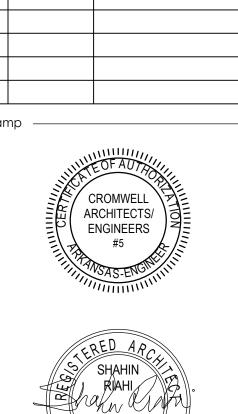


NORTHWEST ARKANSAS COMMUNITY COLLE 1201 S.E. EAGLE WAY BENTONVILLE, ARKANSAS 72712

CONSTRUCTION

DOCUMENTS

Description



2292 //

Notes

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GENERAL NOTES, DETAILS, & PARTITION TYPES

Sheet Title —

Sheet Number -

06-30-2023

G-003

APPLICABLE CODES AND STANDARDS

		1
CODE	EDITION	DESCRIPTION
AFPC	2021	ARKANSAS FIRE PREVENTION BUILDING CODE
NFPA 1	2021	FIRE CODE
NFPA 10	2022	STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13	2019	INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24	2019	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 25	2020	STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER BASED FIRE PROTECTION SYSTEMS
NFPA 70	2020	NATIONAL ELECTRIC CODE
NFPA 72	2019	NATIONAL FIRE ALARM CODE
NFPA 90A	2021	STANDARD INSTALLATION OF AIR CONDITIONING AND VENTILATION SYSTEMS
NFPA 101	2021	LIFE SAFETY CODE

EXISTING STRUCTURE - CLASSIFICATION OF WORK

PER INTERNATIONAL EXISTING BUILDING CODE

- ☐ REPAIRS
- ☐ ALTERATION LEVEL 1
- ☐ ALTERATION LEVEL 2
- X ALTERATION LEVEL 3 ☐ CHANGE OF OCCUPANCY
- \square ADDITIONS
- ☐ HISTORIC BUILDING ☐ RELOCATED BUILDING

OCCUPANCY CLASSIFICATION

XMIXED

☐ SEPARATED
☐ NON SEPARATED

OCCUPANCY CLASSIFICATION(S): FACTORY GROUP F-1, STORAGE GROUP S-1 ACCESSORY OCCUPANCIES: N/A

CONSTRUCTION CLASSIFICATION: VB

HEIGHT AND AREA - ACTUAL

BUILDING HEIGHT	HEIGHT IN FEET 21' - 6"	HEIGHT IN STORIES
BUILDING AREA		I.00 SF

HEIGHT AND AREA- ALLOWABLE

		_	AR AREA E 506.2)	TABULAR HEIGHT (TABLE 504.3-4)		
OCCUPANCY CLASSIFICATION	TYPE OF CONSTRUCTION	AREA FACTOR	AREA	AREA FACTOR	FEET	STORIES
F-1	VB	NS	8500	NS	40	1
S-1	VB	NS	9000	NS	40	1

☐ YES
☒ NO UNLIMITED AREA QUALIFY FOR FRONTAGE INCREASE? FRONTAGE INCREASE FACTOR (TABLE 506.3.3): 0.75

ALLOWABLE AREA $A_A = [A_T + (NS \times I_F)] \times S_A$

(506.2.2)

ALLOWABLE AREA

14875 = [<u>8500</u> + (<u>8500</u> X **TABULAR** ALLOWABLE

AREA FACTOR

_____0.75_____)] X _____0 **TABULAR** ALLOWABLE AREA FACTOR FOR NS

FACTOR INCREASE DUE TO FRONTAGE

INTERIOR FINISH REQUIREMENTS

	EXITS	EXIT ACCESS CORRIDORS	OTHER SPACES
WALL & CEILING FINISH	В	С	С
FLOOR COVERINGS	II	II	II

(TABLE 803.13)

S_A PER 506.2.1

INCIDENTAL USES

- ☐ FURNACE ROOM ROOMS WITH BOILERS
- REFRIGERANT MACHINERY ROOM HYDROGEN FUEL GAS ROOMS
- INCINERATOR ROOMS PAINT SHOPS IN OTHER THAN F
- GROUP E LABORATORIES AND VOCATIONAL SHOPS
- ☐ GROUP I-2 LABORATORIES
- ☐ AMBULATORY CARE FACILITIES
- LABORATORIES
- ☐ LAUNDRY ROOMS OVER 100 SQFT ☐ GROUP I-2 LAUNDRY ROOMS OVER 100 SQFT
- ☐ GROUP I-3 CELLS AND GROUP I-2 PATIENT ROOMS
- ☐ GROUP I-2 PHYSICAL PLANT MAINTENANCE ☐ AMBULATORY CARE FACILITIES OR GROUP
- I-2 WASTE AND LINEN COLLECTION ROOM WITH AGGREGATE VOLUME OF 10CF ☐ OTHER THAN AMBULATORY AND GROUP I-2
- WASTE AND LINEN COLLECTION ROOMS OVER 100 SQFT ☐ AMBULATORY CARE FACILITIES OR GROUP
- I-2 STORAGE ROOMS OVER 100 SQFT ☐ ELECTRICAL INSTALLATIONS AND
- TRANSFORMERS

IF APPLICABLE, SEPARATION AND/OR PROTECTION: N/A

(TABLE 509.1)

FIRE PROTECTION SYSTEMS

FIRE PROTECTION SYSTEM	REQUIRED	PROVIDED	SECTION
AUTOMATIC SPRINKLER			903
ALTERNATIVE AUTO FIRE EXT			904
STANDPIPE			905
PORTABLE FIRE EXTINGUISHERS	•	•	906
FIRE ALARM AND DETECTION			907
EMERGENCY ALARM			908
SMOKE CONTROL			909
SMOKE & HEAT REMOVAL			910
FIRE COMMAND CENTER			911
FIRE DEPT. CONNECTIONS			912
FIRE PUMPS			913
EMERGENCY RESPONDER FEATURES			914
CARBON MONOXIDE DETECTION			915
GAS DETECTION SYSTEMS			916
MASS NOTIFICATION SYSTEMS			917
EMERGENCY RESP. COMM COVERAGE			918

FIRE RESISTANCE OF BUILDING ELEMENTS

	REQUIRED	SECTION
STRUCTURAL FRAME	0	601
BEARING WALLS (EXTERIOR)	0	601
BEARING WALLS (INTERIOR)	0	601
NON-BEARING WALLS (EXTERIOR)	0	601
NON-BEARING WALLS (INTERIOR)	0	601
FLOOR CONSTRUCTION	0	601
ROOF CONSTRUCTION	0	601
INTERIOR EXIT STAIRWAYS	1	1023
SHAFT ENCLOSURE	1	713
CORRIDORS	0	1020

MEANS OF EGRESS

MEANS OF EGRESS ELEMENT	REQUIRED	PROVIDED	SECTION
NUMBER OF EXITS	2	8	1006.3.3
EXIT ACCESS TRAVEL DISTANCE	200 ft	111 ft	1017.2
DEAD-END LIMIT	20 ft	0 ft	1020.5
COMMON PATH OF TRAVEL LIMIT	75 ft	75 ft	1006.2.1

NFPA 101 7.10

TOTAL OCCUPANT LOAD: EGRESS WIDTH: MINIMUM CORRIDOR WIDTH: CLEAR OPENING DOOR WIDTH: 32"

0.2" PER PERSON FOR LEVEL COMPONENTS/ 0.3" STAIRS AND RAMPS

ILLUMINATION OF EGRESS: 1 FT-CANDLE AT THE FLOOR AND 0.2 FT-CANDLE FOR A SINGLE LIGHT FAILURE.

EMERGENCY EGRESS LIGHTING: EXIT ACCESS AND DISCHARGE ONLY. ACCESS INCLUDES

EXIT MARKING:

DESIGNATED CORRIDORS, AISLES, AND PASSAGEWAYS. DISCHARGE INCLUDES DESIGNATED DOORS, WALKWAYS, AND RAMPS LEADING TO A PUBLIC WAY. PERFORMANCE PER NFPA 101 7.9.

MARKING OF EXITS AND THE MEANS OF EGRESS SHALL BE PER

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BIKE \geq

Design Phase — CONSTRUCTION DOCUMENTS

No.	Date	Description

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ARCHITECTS/ ENGINEERS

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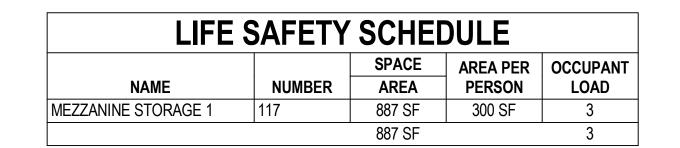
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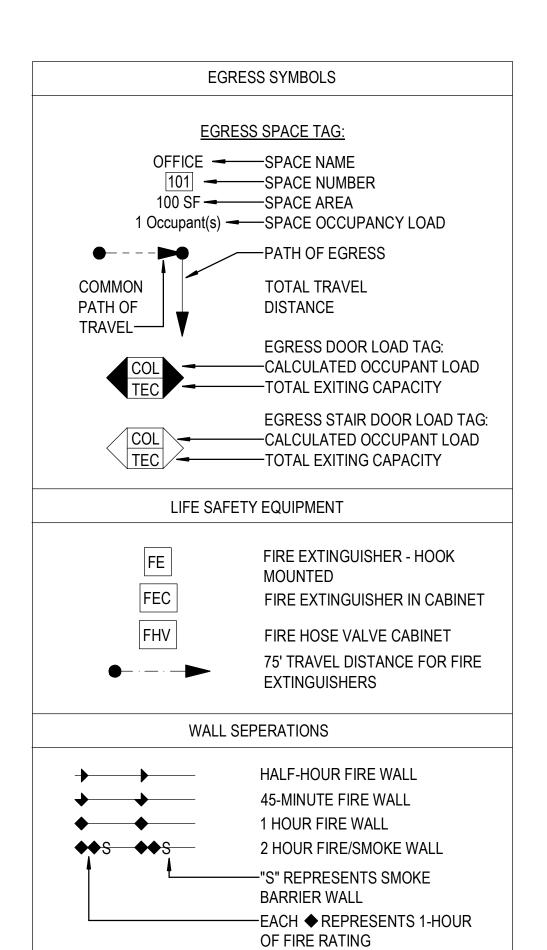
LIFE SAFETY CODE **ANALYSIS**

06-30-2023

Sheet Number ——

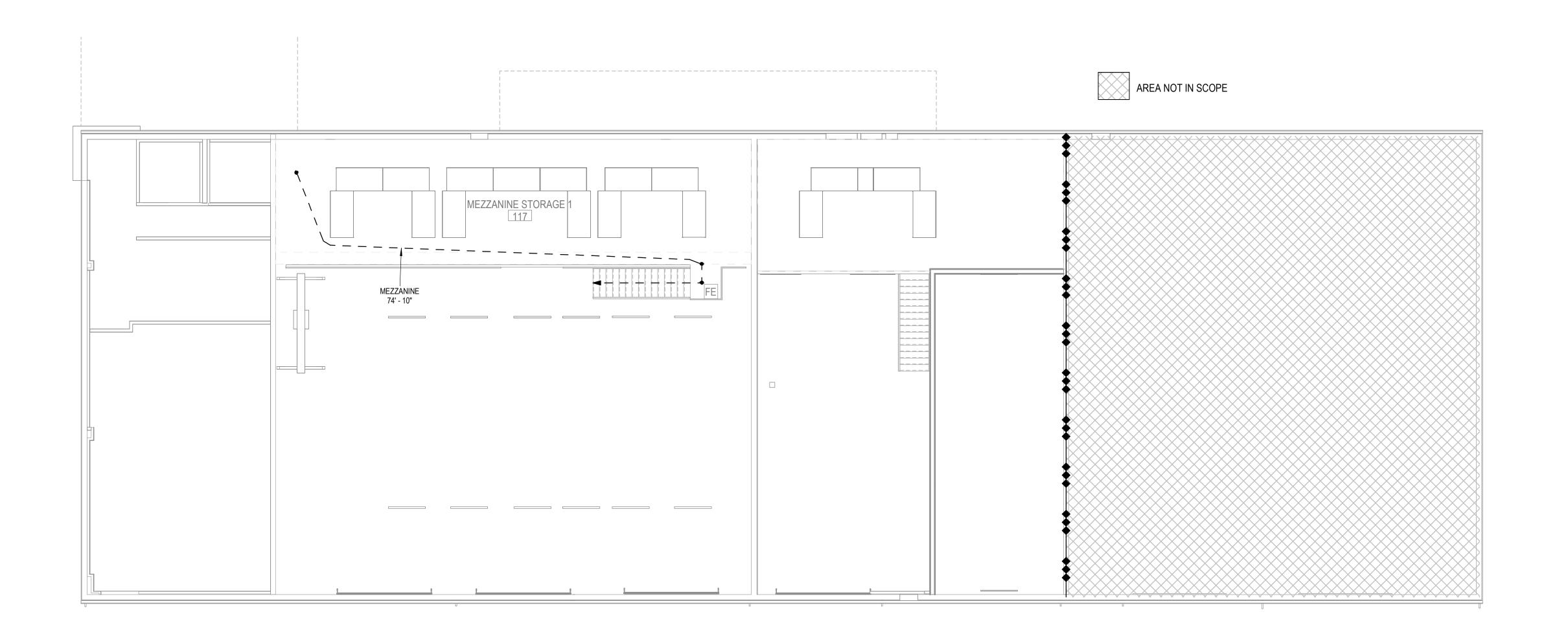


Path of Travel Schedule Mezzanine					
Exit Travel Origin	From Room	To Room	Length	Exit Travel Type	
MEZZANINE STORAGE 117		WOOD WORKING-SMALL ENGINE REPAIR 112	74' - 10 1/8"	Common Path	
MEZZANINE STORAGE 117	WOOD WORKING-SMALL ENGINE REPAIR 112	HALLWAY 105	24' - 6 1/2"	Total Travel	
			99' - 4 5/8"		



LIFE SAFETY SCHEDULE						
		SPACE	AREA PER	OCCUPANT		
NAME	NUMBER	AREA	PERSON	LOAD		
ENTRY	99	160 SF	15 SF	11		
WOMENS TLT	102	60 SF	150 SF	0		
MEN'S TLT	103	61 SF	150 SF	0		
CLASSROOM	100	793 SF	20 SF	40		
STORAGE	104	529 SF	300 SF	2		
WOOD WORKING-SMALL ENGINE REPAIR	112	2598 SF	50 SF	52		
WELDING	114	910 SF	50 SF	18		
EVENING-WEEKEND BIKE REPAIR	115	673 SF	50 SF	13		
ALCOVE	116	151 SF	150 SF	1		
DATA SERVER CLOSET	111	35 SF	300 SF	0		
UNISEX RR	110	64 SF	150 SF	0		
HALLWAY	105	337 SF	150 SF	2		
OFFICE 4	109	109 SF	150 SF	1		
OFFICE 3	108	106 SF	150 SF	1		
OFFICE 2	107	98 SF	150 SF	1		
OFFICE 1	106	100 SF	150 SF	1		
	•	6784 SF		143		

Path of Travel Schedule						
Exit Travel Origin	From Room	To Room	Length	Exit Travel Type		
EVENING-WEEKEND BIKE REPAIR 115	EVENING-WEEKEND BIKE REPAIR 115		52' - 0"	Total Travel		
			52' - 0"	•		
STORAGE 104	STORAGE 104	WOOD WORKING-SMALL ENGINE REPAIR 112	29' - 4 1/8"	Common Path		
STORAGE 104	WOOD WORKING-SMALL ENGINE REPAIR 112	ENTRY 99	65' - 2 1/8"	Total Travel		
			94' - 6 3/8"			
UTILITY 111	DATA SERVER CLOSET 111	ALCOVE 116	9' - 4 1/4"	Common Path		
UTILITY 111	ALCOVE 116	HALLWAY 105	80' - 6 1/2"	Total Travel		
		•	89' - 10 3/4"			
WOOD WORKING-SMALL ENGINE REPAIR 112	WOOD WORKING-SMALL ENGINE REPAIR 112	WOOD WORKING-SMALL ENGINE REPAIR 112	67' - 5 5/8"	Total Travel		
	•	•	67' - 5 5/8"			



2 LIFE SAFETY MEZZANINE PLAN

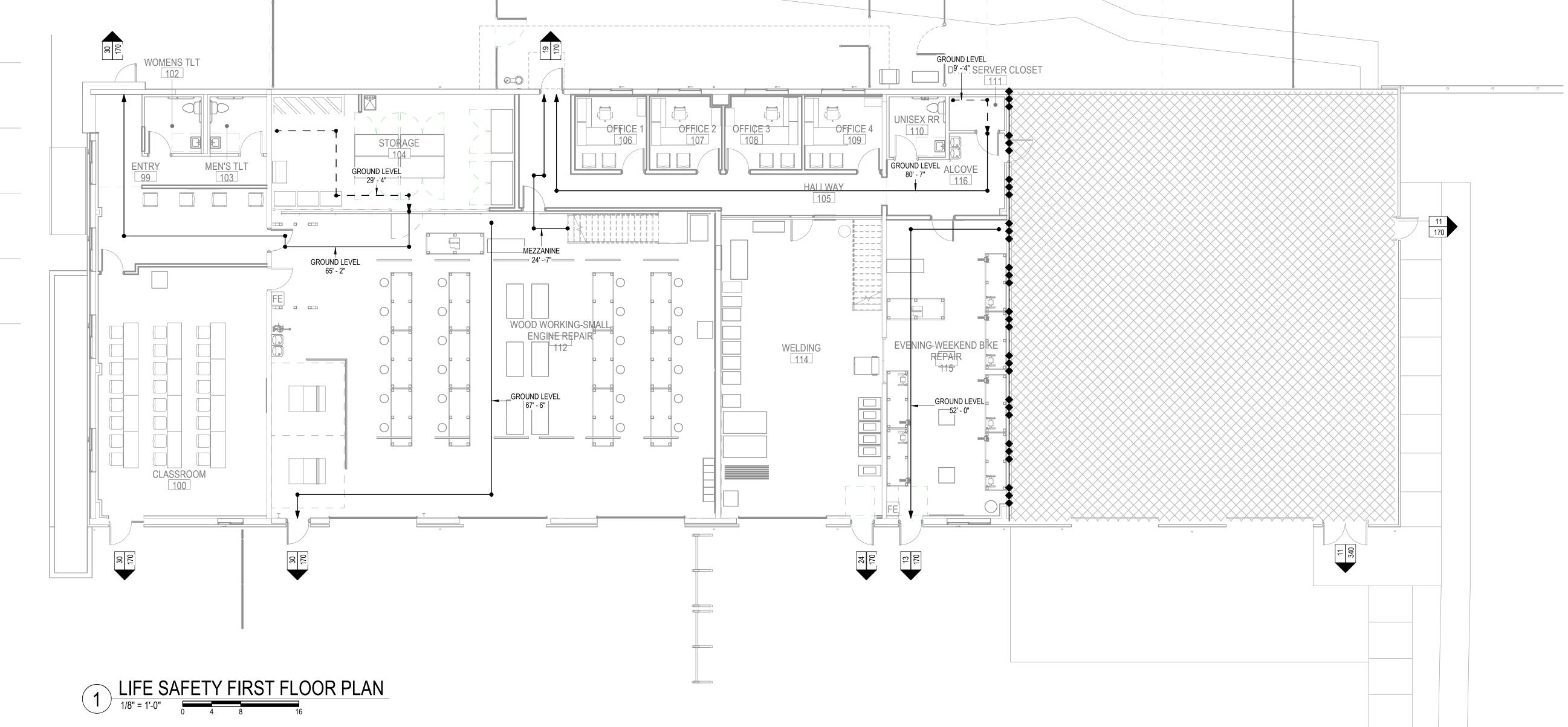
1/8" = 1'-0"

0

4

8

16





CROMWELL

1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com

NORTHWEST ARKANSAS COMMUNITY COL 1201 S.E. EAGLE WAY

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Revisions

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Stamp

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ARCHITECTS/
ENGINEERS
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LIFE SAFETY PLAN

Sheet Title —

Sheet Number ——

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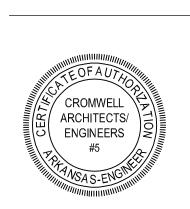


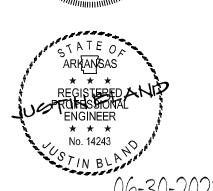
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2023-049
Issue Date 06-30-2023

IE DEMOLITION

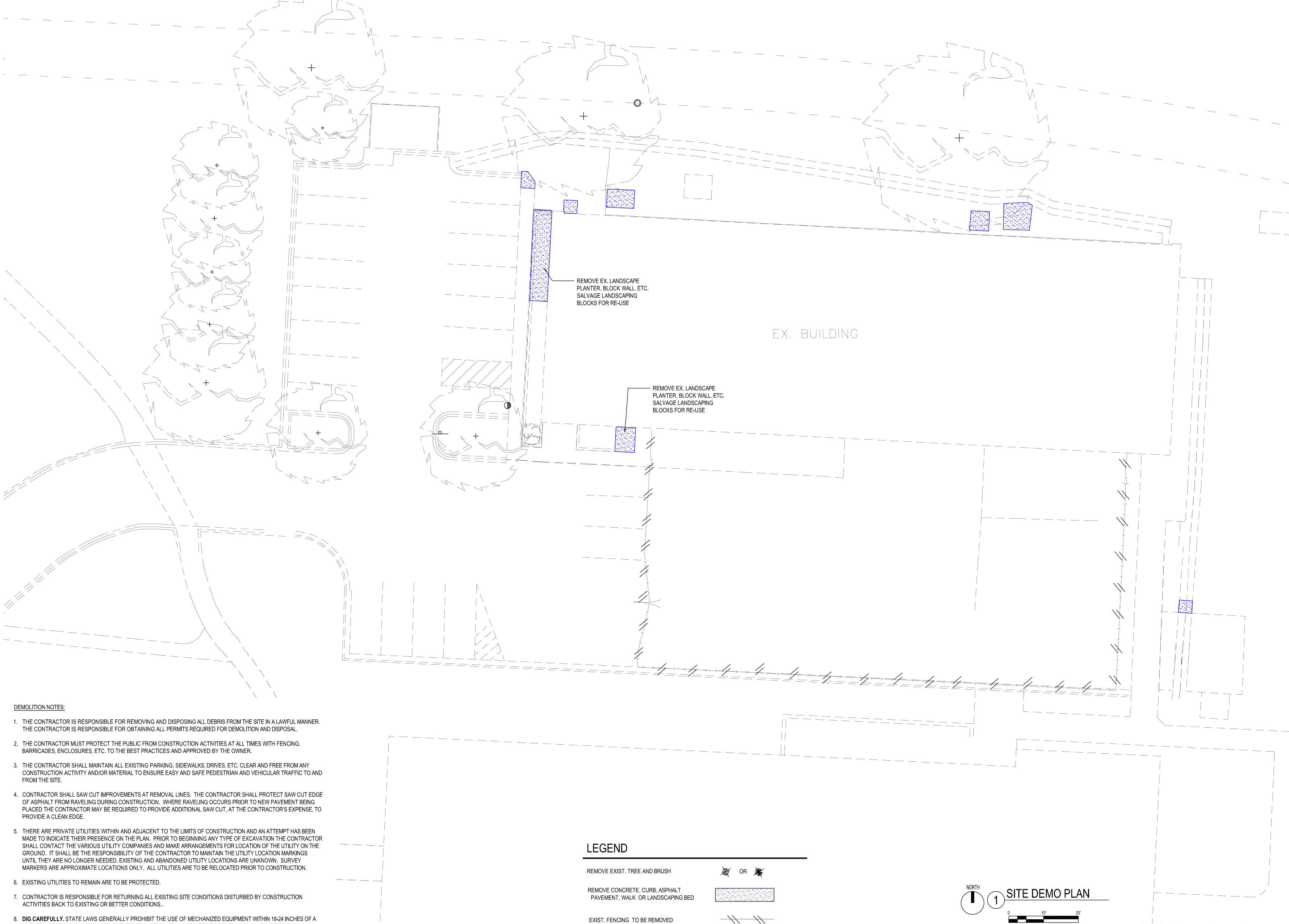
SITE DEMOLITION PLAN

Know what's **below. 811** before you dig.

SCALE: 1"= 10'

_ _ _ _ _ _ _ _ _ _ _

CD101



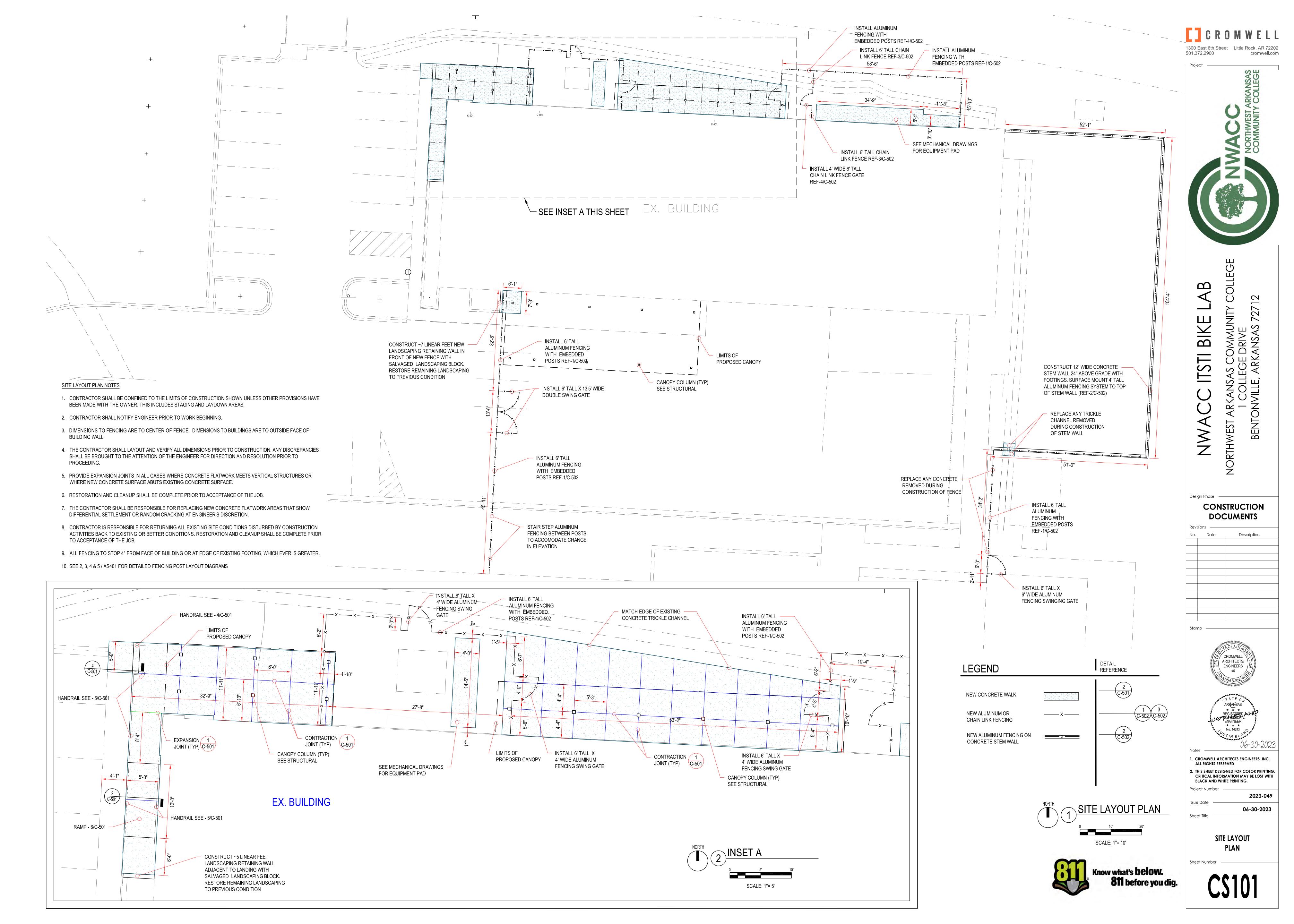
MARKED UTILITY, WHICH IS CALLED THE "TOLERANCE ZONE". CONTACT THE PROPER LOCAL AGENCY PRIOR TO

STRUCTURES, ETC. THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIAL/STRUCTURES IN ACCORDANCE WITH CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNATED TO BE RELOCATED ON THIS PLAN, ALL CONSTRUCTION

9. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, SIDEWALKS, LIGHTING, STORM INLET

DIGGING.

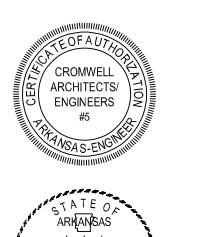
MATERIALS SHALL BE NEW.

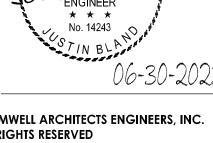




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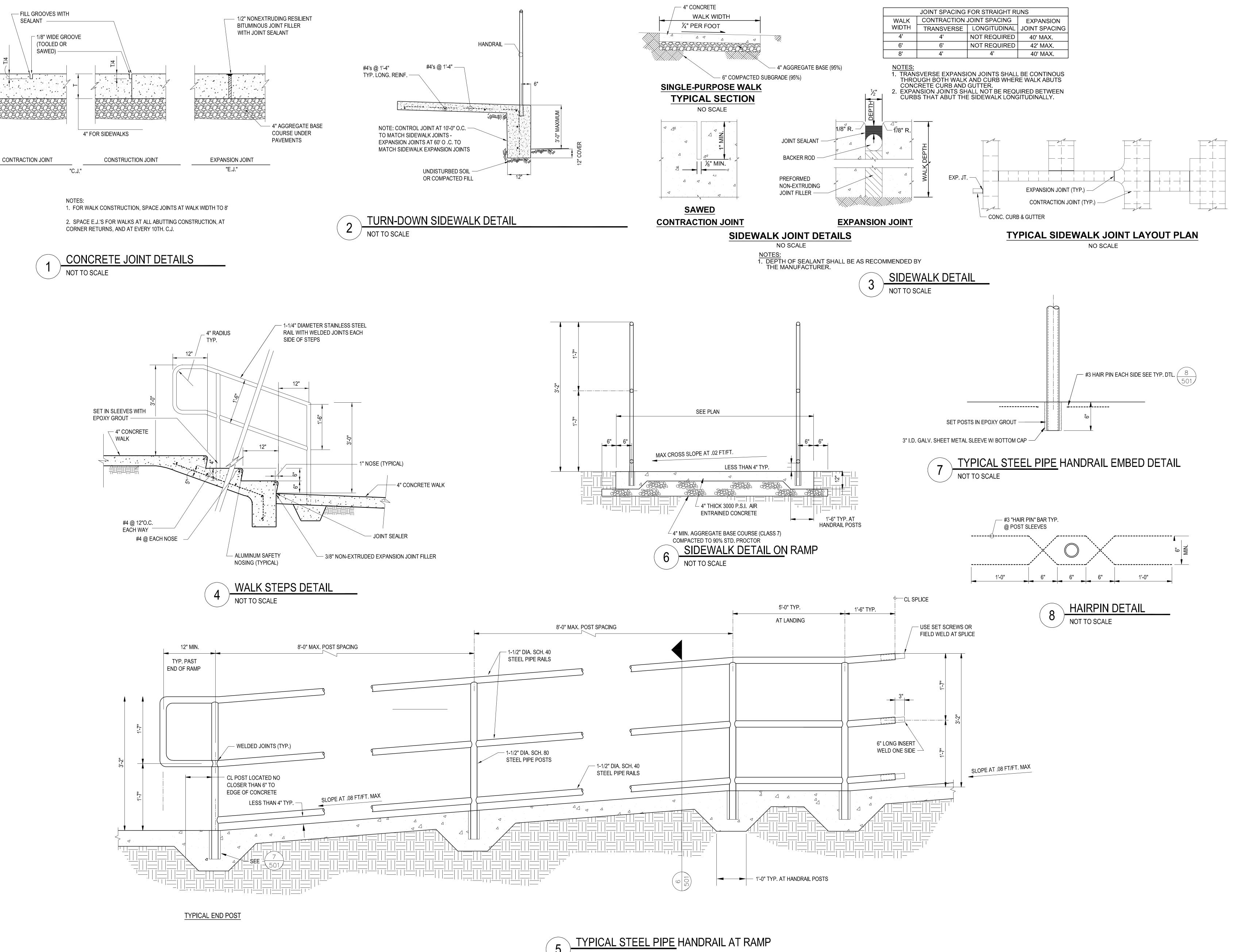


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SITE GRADING





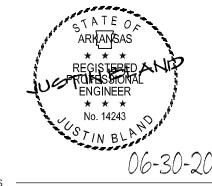


NWACC ITSTI BIKE LAB
ORTHWEST ARKANSAS COMMUNITY COLLEGE
1 COLLEGE DRIVE
BENTONVILLE, ARKANSAS 72712

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DOCUMENTS

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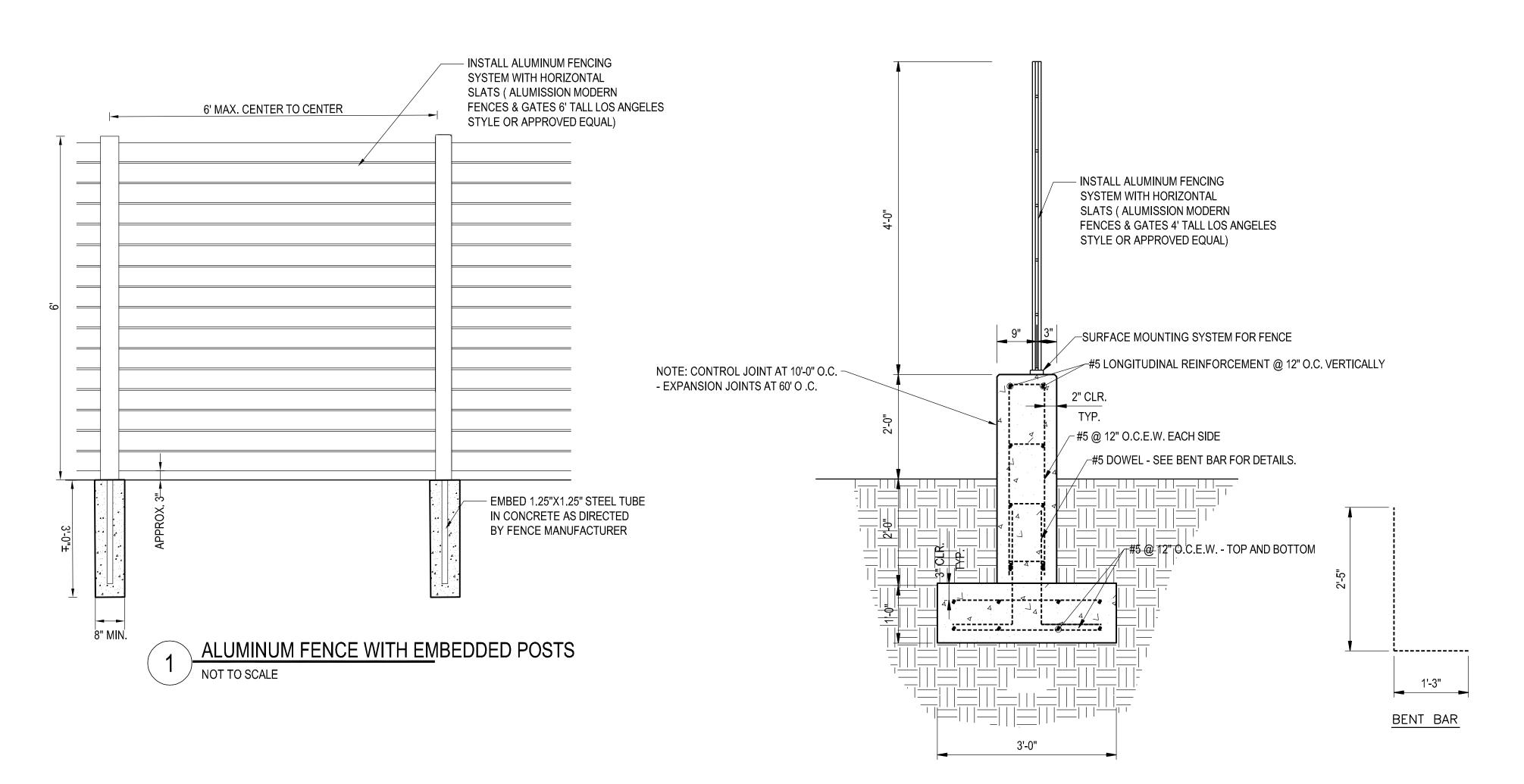
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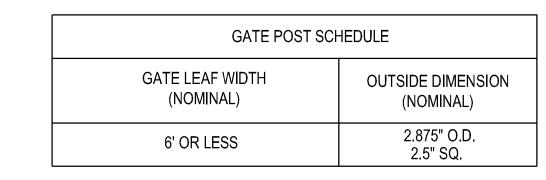
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Issue Date

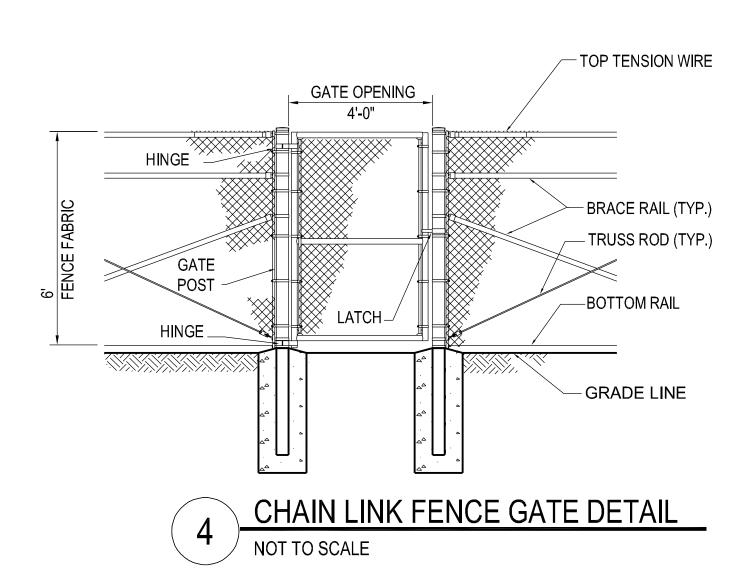
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SITE DETAILS

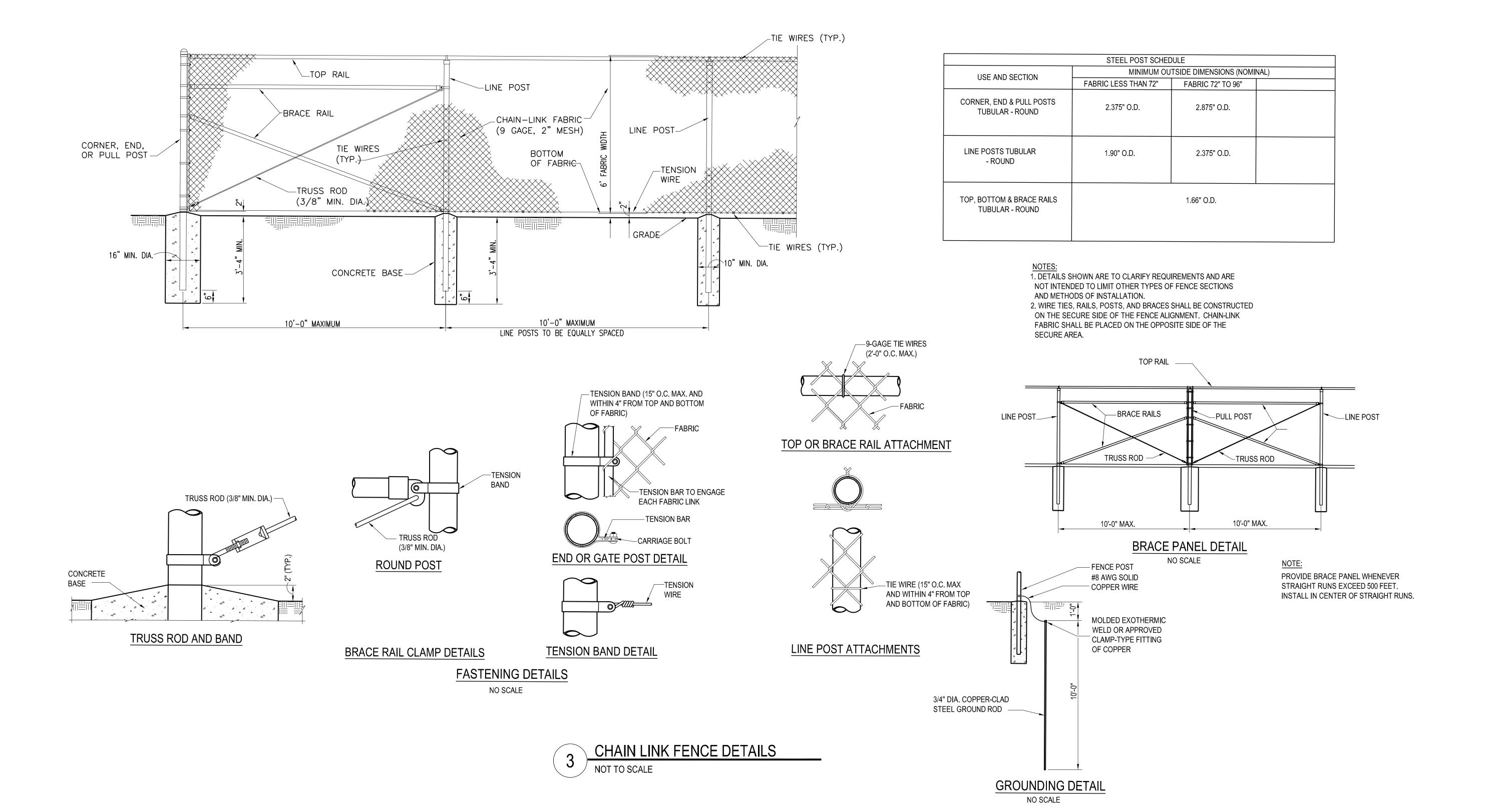
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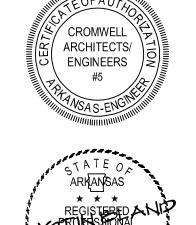


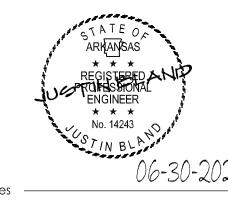
NWACC ITSTI BIKE LAB
NORTHWEST ARKANSAS COMMUNITY COLLEG
1 COLLEGE DRIVE

CONSTRUCTION DOCUMENTS					
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SITE DETAILS

C-502

TEE SHAPE MADE

ON SHEET "S-YYY"

FROM W SHAPE

X/S-YYY SECTION/DETAIL "X"

ZRC ZINC BASE PAINT

XX# POUNDS

STRUCTURAL GENERAL NOTES CONTINUED

GENERAL REQUIREMENTS

STRUCTURAL DESIGN CRITERIA

20 PSF (NON-REDUCIBLE)

Pq = 15 PSF

Pf = 11 PSF

Ps = 11 PSF

Vult = 107 MPH

Vasd = 83 MPH

SEE DETAIL 1, THIS SHEET

STEEL ORDINARY CANTILEVER

EQUIVALENT LATERAL FORCE

STEEL SYSTEMS NOT SPECIFICALLY

DETAILED FOR SEISMIC RESISTANCE

+/- 0.18

le = 1.0

Ss = 0.155

S1 = 0.090

SDS = 0.165

SD1 = 0.144

V = 0.132W

Cs = 0.132

R = 1.1/4

STRUCTURAL GENERAL NOTES

THE EXISTING CONDITIONS AND DIMENSIONS ARE DIFFERENT FROM THOSE INDICATED OR

SHOWN ON THE CONTRACT DRAWINGS. INCORPORATE NECESSARY CHANGES INTO THE

LIMITS OF THE CONTRACT. REPAIR AT NO ADDITIONAL COST TO THE OWNER ANY DAMAGE

2. SCHEDULE AND COORDINATE WORK TO PREVENT DAMAGE TO THE BUILDING OUTSIDE THE

3. INSTALL PIPING, CONDUIT, ETC. WITHIN THE EXISTING STRUCTURE AND UNDER THE EXISTING

FLOOR SLAB/STRUCTURE AS SHOWN ON THE CONTRACT DOCUMENTS. UNLESS SHOWN

STRUCTURAL DRAWINGS. NOTIFY ARCHITECT/ENGINEER IF SIZES OR LAYOUT DIFFERS.

5. DO NOT OVER CUT OPENINGS IN EXISTING CONCRETE WALLS. SAW TO EDGE OF OPENING

WITH A CIRCULAR CONCRETE SAW & REMOVE PORTION LEFT WITH CHAIN SAW TYPE

FIELD VERIFY SIZES AND LAYOUT OF EXISTING STRUCTURAL MEMBERS NOTED ON THE

INCORPORATE NECESSARY CHANGES INTO THE CONTRACT DOCUMENTS.

OTHERWISE, ESTABLISH THE METHOD OF INSTALLATION AND REPAIR AND REPLACEMENT OF

CONTRACT DOCUMENTS.

CAUSED BY THE CONSTRUCTION.

CONCRETE SAW OR SIMILAR.

THE FLOOR STRUCTURE INCLUDING THE SLAB ON GRADE.

COLUMN SYSTEMS

ls = 1.0

Ce = 1.0

Ct = 1.0

STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH DRAWINGS RELATING TO OTHER TRADES CHECK AND COORDINATE DIMENSIONS, CLEARANCES, OPENINGS, PIPE SLEEVES, CURBS, ETC. WITH THE WORK OF OTHER TRADES

WORK NOT INDICATED ON A PART OF THE DRAWING BUT REASONABLY IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES SHALL BE REPEATED. DETAILS DESIGNATED AS "TYPICAL" APPLY TO ALL AREAS WHERE THE CONDITIONS ARE SIMILAR TO THOSE

DESCRIBED IN THE DETAIL 4. THE PLANS AND DETAILS IN THE CONTRACT DRAWINGS SHALL NOT BE REVISED WITHOUT PRIOR APPROVAL BY

ALL DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS. PRINCIPAL OPENINGS THROUGH THE FRAMING ARE SHOWN ON THESE DRAWINGS. EXAMINE THE DRAWINGS FOR REQUIRED OPENINGS AND PROVIDE FOR ALL OPENINGS WHETHER SHOWN ON THE STRUCTURAL DRAWINGS OR NOT. VERIFY SIZE AND LOCATION OF ALL OPENINGS WITH ALL SUB-CONTRACTORS. PIPE "SLEEVES THROUGH THE DECK WILL NOT REQUIRE ADDITIONAL FRAMING UNLESS THE DIAMETER EXCEEDS 10

SPLICING OF STRUCTURAL MEMBERS WHERE NOT DETAILED IS PROHIBITED WITHOUT PRIOR APPROVAL OF ARCHITECT/ENGINEER. IF APPROVED, ADDITIONAL TESTING AND INSPECTION SHALL BE AS SPECIFIED BY THE ARCHITECT/ENGINEER AND PAID FOR BY THE CONTRACTOR NO CHANGE IN SIZE OR POSITION OF THE STRUCTURAL ELEMENTS SHALL BE MADE: HOLES, SLOTS, CUTS, ETC., ARE NOT PERMITTED THROUGH ANY MEMBER UNLESS THEY ARE DETAILED ON THE APPROVED SHOP

DRAWINGS 9. ENSURE THAT ALL CONSTRUCTION LOADS DO NOT EXCEED THE DESIGN LIVE LOADS INDICATED ON THE STRUCTURAL DRAWINGS AND THAT THESE LOADS ARE NOT PUT ON THE STRUCTURAL MEMBERS PRIOR TO THE TIME THAT THE CONCRETE REACHES THE FULL DESIGN STRENGTH AND ALL FRAMING MEMBERS AND THEIR CONNECTIONS ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE ADEQUACY OF ELEVATED SLABS AND SLABS ON GRADE FOR SUPPORTING ALL CONSTRUCTION EQUIPMENT, INCLUDING AREAL

LIFTS. SHOP DRAWINGS SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ARCHITECT/ENGINEER FOR THE FOLLOWING ITEMS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

 a. CONCRETE REINFORCING STEEL INDICATE ALL REINFORCING STEEL IN FOUNDATIONS INDICATE ALL HORIZONTAL, VERTICAL, AND TIE REINFORCING INDICATE TYPE AND LOCATION OF ALL REINFORCING STEEL SPLICES b. STRUCTURAL STEEL

c. METAL DECKING 2. SUBMIT OTHER SHOP DRAWINGS FOR REVIEW BY ARCHITECT/ENGINEER AS REQUIRED BY PROJECT SPECIFICATIONS.

DETAILS FOR SOME SPECIAL CONDITIONS WILL NEED TO BE DEVELOPED BY THE DETAILER DURING THE DETAILING PROCESS. FINAL REVIEW OF THE DETAILS WILL BE AT THE DISCRETION OF THE ENGINEER OF RECORD. NO ADDITIONAL CHARGES FOR MAKING CORRECTIONS, CHANGES, OR ADDITIONS TO THE SHOP DRAWINGS ("RE-DETAILING COST") WILL BE ALLOWED. CONTRACTOR SHALL MAKE PROVISIONS FOR DETAILING CORRECTIONS AND MISCELLANEOUS MATERIAL IN THE BID PRICE. ADJUSTMENTS TO THE CONTRACT WILL ONLY BE MADE FOR CHANGE ORDERS APPROVED PRIOR TO THE COMMENCEMENT OF ANY ACTION ON THE CHANGES.

4. ALL SHOP DRAWINGS SHALL BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR / CONSTRUCTION MANAGER PRIOR TO SUBMITTAL. INCOMPLETE SHOP DRAWINGS AND SHOP DRAWINGS THAT HAVE NOT BEEN REVIEWED BY THE CONTRACTOR WILL BE RETURNED WITHOUT REVIEW BY THE ARCHITECT/ENGINEER VERIFY AND COORDINATE ALL DIMENSIONS AND ELEVATIONS SHOWN ON STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS. IN CASE OF CONFLICTS, THE ARCHITECT/ENGINEER IS TO BE NOTIFIED AND WILL PROVIDE THE CORRECT ELEVATIONS AND DIMENSIONS FOR WHICH SHALL BE INCORPORATED INTO THE SHOP

EARTHWORK FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL PRESSURE OF 1500 PSF

DRAWINGS AT NO EXTRA COST.

a. CONTINUOUS FOOTINGS: 1.5 KSF

a. THE ABOVE ASSUMPTIONS SHALL BE VERIFIED BY A SOILS INVESTIGATION. b. THIS SOILS INVESTIGATION SHALL BE DONE BY A GEOTECHNICAL CONSULTANT HIRED AND PAID BY CONTRACTOR AND APPROVED BY ARCHITECT/ENGINEER.

THIS INVESTIGATION SHALL BE BASED ON //THREE BORINGS - TWO AT 20', ONE AT 40'//, AND SHALL ADDRESS ALLOWABLE BEARING AND INDIVIDUAL AND RELATIVE SETTLEMENTS. d. THE REPORT OF THE CONSULTANT SHALL BE FORWARDED TO ARCHITECT/ENGINEER BEFORE THE START

OF THE FOUNDATION WORK. FOUNDATION DESIGN IS BASED ON THE FOLLOWING MINIMUM NET ALLOWABLE BEARING PRESSURE:

INDIVIDUAL PAD FOOTINGS: 1.5 KSF ALL FOUNDATION BEARING CONDITIONS SHALL BE VERIFIED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.

BOTTOM OF FOUNDATION ELEVATIONS ARE GIVEN FOR BIDDING PURPOSES ONLY. ALL FOUNDATIONS SHALL BE FOUNDED A MINIMUM OF 2 FEET BELOW EXISTING GRADE. THE NEW CONSTRUCTION AREAS SHALL BE STRIPPED A MINIMUM OF 1'-0", PROOF ROLLED, COMPACTED FILL

PLACED, AND EXCAVATED AS REQUIRED FOR FOUNDATION. SEE SPECIFICATION DIVISION 31 FOR EARTHWORK REQUIREMENTS. EXCAVATION SHOULD BE INITIATED DURING DRIER SEASONS OF THE YEAR. POSITIVE SURFACE DRAINAGE IS IMPORTANT DURING THE INITIAL PHASES OF SITE GRADING AND SHOULD BE MAINTAINED DURING CONSTRUCTION AND FOLLOWING COMPLETION OF THE STRUCTURE TO PREVENT SURFACE PONDING AND

SUBSEQUENT SATURATION OF THE SUB GRADE SOILS. IF CONSTRUCTION IS INITIATED DURING WETTER SEASONS OF THE YEAR, IT IS LIKELY THAT A PERCHED GROUND WATER CONDITION WILL EXIST AND MINOR SEEPAGE INTO EXCAVATIONS MAY OCCUR IN LOCALIZED AREAS. TAKE ADEQUATE MEASURES TO ALLOW FOR WORKING SURFACE DURING CONSTRUCTION OF FOUNDATIONS AND SLAB-ON-GRADE, SUCH AS GRAVEL BED OF ADEQUATE DEPTH, ETC

REQUIRED TO SUPPORT EXCAVATIONS AND TO PROTECT EXISTING STRUCTURES DURING CONSTRUCTION. TRENCHING AND EXCAVATIONS SHALL MEET ALL OSHA REQUIREMENTS. WATER ACCUMULATION IS ANTICIPATED IN FOOTING EXCAVATIONS; PROVIDE DRAINAGE OF EXCAVATIONS FROM SURFACE WATER AND SEEPAGE. EXCAVATIONS SHALL BE DRAINED OR PUMPED DRY BEFORE POURING

PROVIDE EARTH RETENTION SYSTEMS AND TEMPORARY BRACING OR SHORING (INCLUDING UNDERPINNING) AS

CONCRETE PROTECT ALL UTILITY LINES, ETC. ENCOUNTERED DURING EXCAVATION AND BACKFILLING.

H. CONCRETE AND REINFORCING STEEL 1. THE DESIGN OF THE CONCRETE STRUCTURE IS BASED ON ACI318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE

CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING MINIMUM 28 DAY COMPRESSIVE STRENGTHS (fc) COMPRESSIVE STRENGTH **FOOTINGS** 3500 PSI

INTERIOR SLABS ON GRADE 3500 PSI SEE SPECIFICATION SECTION 033000 FOR ADDITIONAL MIX DESIGN REQUIREMENTS ALL DEFORMED REINFORCING STEEL SHALL BE A615 GRADE 60 STEEL, U.N.O. ALL WELDED WIRE REINFORCING STEEL SHALL BE A1064. ALL WELDED WIRE REINFORCEMENT SHALL BE

PROVIDED IN SHEETS. 5. ALL CONCRETE WORK SHALL CONFORM TO THE LATEST ACI CODE AND ACI DETAILING MANUAL MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE:

CONCRETE CAST AGAINST EARTH: CONCRETE EXPOSED TO EARTH OR WEATHER: #5 BARS AND SMALLER: #6 BARS AND LARGER SLABS. WALLS. AND JOISTS:

ALL CONCRETE CONSTRUCTION AND MATERIALS SHALL BE PLACED ACCORDING TO ACI 117 TOLERANCES.

8. ALL CONCRETE REINFORCING STEEL SHALL BE SPLICED USING TENSION SPLICES a. UNLESS NOTED OTHERWISE, LAP SPLICE ALL CONCRETE REINFORCING STEEL

BARS #6 AND SMALLER: 48 BAR DIAMETERS BARS #7 AND LARGER: 60 BAR DIAMETERS WELDED WIRE REINFORCING: ONE MESH PLUS 2'

 b. ONLY APPROVED MECHANICAL SPLICE SYSTEMS SHALL BE USED TO PROVIDE TENSION SPLICES MECHANICAL SPLICES SHALL DEVELOP 125% OF THE YIELD STRENGTH OF THE BAR c. STAGGER ALL TENSION LAP SPLICE LOCATIONS.

TERMINATE CONTINUOUS BARS AT NON-CONTINUOUS END WITH STANDARD HOOKS.

10. PROVIDE CORNER BARS IN ALL CONCRETE MEMBERS AT INTERSECTIONS. MATCH SIZE AND SPACING OF HORIZONTAL BARS IN THOSE MEMBERS 11. ALL REINFORCING STEEL SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. ADDITIONAL BARS OR

STIRRUPS SHALL BE PROVIDED AS REQUIRED TO FURNISH SUPPORT FOR ALL REINFORCING STEEL 12. PROVIDE SUPPORT FOR ALL CONCRETE REINFORCING (INCLUDING SLABS ON GRADE) AS REQUIRED TO MAINTAIN CLEAR COVER DIMENSIONS. SPACING SHALL NOT EXCEED 3'-0". 13. SUBMIT DRAWINGS SHOWING INTENDED POURING SEQUENCE AND LOCATION OF CONSTRUCTION JOINTS TO THE

ARCHITECT/ENGINEER FOR APPROVAL 14. HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS. HORIZONTAL OR NEAR HORIZONTAL JOINTS SHALL BE PREPARED BY ROUGHENING THE SURFACE IN AN APPROVED MANNER SO THAT THE AGGREGATE IS EXPOSED UNIFORMLY, LEAVING NO LAITANCE, LOOSENED PARTICLES, OR DAMAGED CONCRETE

15. PIPES OR CONDUITS PLACED IN FOUNDATIONS AND SLABS SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTERS. PIPES AND CONDUITS PLACED IN SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER LARGER THAN 1/3 OF SLAB THICKNESS. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE. NO CONDUIT SHALL BE

PLACED WITHIN 24" OF COLUMN FACE. 16. LOCATION OF SLOTTED INSERTS, WELD PLATES AND ALL OTHER ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE COORDINATED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS

17. REINFORCING BARS SHALL NOT BE WELDED. 18. VERIFY DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVE CURBS, ETC., AS REQUIRED BY OTHER

TRADES BEFORE CONCRETE IS PLACED. 19. AGGREGATE FOR CONCRETE SHALL NOT CONTAIN LIGNITE, STEEL, OR OTHER MATERIALS THAT MAY BE

DETRIMENTAL TO THE CONCRETE. ALKALI-SILICA REACTIVE (ASR) AGGREGATES ARE NOT ALLOWED. 20. MAXIMUM TOLERANCE FOR SLAB EDGES IS 1/2" +/- EXCEPT WHERE TIGHTER TOLERANCE IS REQUIRED FOR ARCHITECTURAL REASONS

21. CONCRETE SHALL BE PLACED AND CURED IN ACCORDANCE WITH THE SPECIFICATIONS. WHEN THE AIR TEMPERATURE IS OVER 85 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 305R. WHEN THE AIR TEMPERATURE IS BELOW 40 DEGREES FOLLOW THE RECOMMENDATIONS OF ACI 306R.

I. STRUCTURAL STEEL: THE DESIGN OF STRUCTURAL STEEL IS BASED ON AISC 360-16, SPECIFICATION FOR STRUCTURAL STEEL

BUILDINGS.

2. ALL STEEL MEMBERS SHALL CONFORM TO ASTM STANDARD YIELD STRENGTH 50 KSI WIDE FLANGE AND CHANNELS ANGLES, PLATES, AND BARS 50 KSI

RECTANGULAR AND SQUARE HSS A500 GRADE C OR A1085 50 KSI ALL BOLTED CONNECTIONS FOR STRUCTURAL STEEL TO STEEL SHALL BE ASTM F3125, GRADE F1852 "TWIST-OFF" STYLE TENSION CONTROL BOLT ASSEMBLIES (SHOP AND FIELD), UNLESS NOTED OTHERWISE. "H.S. BOLTS" DESIGNATES F1852 BOLT ASSEMBLIES.

4. ALL WELDING ELECTRODES FOR STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO AWS A5.1 GRADE E-70 BARE ELECTRODES COLUMN ANCHOR RODS SHALL CONFORM TO ASTM F1554 GRADE 36. ANCHOR RODS SHALL HAVE A PLATE

WASHER PER AISC TABLE 14-2 AND ONE HEAVY HEX NUT AT THE TOP AND ONE HEAVY HEX NUT AT THE BOTTOM TACK WELDED TO THE ROD, UNLESS NOTED OTHERWISE

PLACE AND SECURE ANCHOR RODS IN FOOTING EXCAVATION PRIOR TO POURING CONCRETE FOR FOOTING. DO NOT PLACE ANCHOR RODS IN WET CONCRETE. PROVIDE LEVELING NUTS OR SHIM PACKS AS REQUIRED TO LEVEL COLUMN BASE PLATES. IF SHIM PACKS ARE

USED. ENCASE SHIM PACKS WITH 1" MIN COVER OF NON-SHRINK GROUT WHEN PLACING GROUT UNDER BASE PLATE.

CONNECTION DETAILING: a. CONNECTIONS SHALL BE DETAILED AS INDICATED IN THE DRAWINGS. UNO.

b. THE FABRICATOR'S STEEL DETAILER SHALL SELECT AND COMPLETE TYPICAL CONNECTIONS BASED ON THE PLANS AND THE FOLLOWING: TYPICAL STEEL BEAM AND GIRDER TO COLUMN CONNECTIONS.

TYPICAL STEEL BEAM-TO-BEAM CONNECTIONS. 3. TYPICAL CONNECTIONS SHALL USE, AS A MINIMUM, THE NUMBER OF BOLTS INDICATED IN THE TYPICAL

DETAILS.

4. IF BEAM END REACTIONS ARE LARGER THAN THE CAPACITY INDICATED IN THE SCHEDULES THE ARCHITECT/ENGINEER SHALL BE NOTIFIED FOR GUIDANCE.

c. ANY NON-TYPICAL CONNECTIONS THAT ARE NOT DETAILED IN THE DRAWINGS SHALL BE DESIGNED BY THE FABRICATOR FOR THE LOADS INDICATED IN THE DRAWINGS. THE DESIGN SHALL BE DONE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ARANSAS. THE CONNECTION DETAILS AND CALCULATIONS SHALL BE SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL

9. ALL STEEL FABRICATION AND ERECTION SHALL BE PERFORMED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE

10. THE STRUCTURAL STEEL FRAMING FABRICATOR SHALL BE AN AISC CERTIFIED BUILDING FABRICATOR (BU 11. ALL STEEL DETAILS SHALL BE IN ACCORDANCE WITH THE REQUIREMENT OF THE LATEST AISC SPECIFICATIONS

12. SUPPLY STRUCTURAL STEEL FRAMING CONNECTIONS THAT COMPLY WITH OSHA STANDARDS. IF MEETING THESE, Project STANDARDS CONFLICTS WITH ANYTHING SHOWN IN THESE DRAWINGS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING ADVISING OF ANY REQUIRED REVISIONS AND ACQUIRE THE ENGINEER'S APPROVAL

BEFORE PROCEEDING WITH THE WORK. 13. THE MINIMUM PLATE THICKNESS SHALL BE 1/4", THE MINIMUM WELD SHALL HAVE A 1/4" THICK THROAT, THE MINIMUM BOLT DIAMETER SHALL BE 3/4", AND THE MINIMUM CONNECTION SHALL BE TWO BOLTS, U.N.O.

MINIMUM EDGE DISTANCE TO CENTER OF BOLT HOLE. SPACING OF HOLES. AND SIZES OF HOLES SHALL BE AS PER AISC MANUAL UNLESS NOTED OTHERWISE 15. PROVIDE WELDED STIFFENER PLATES ON BOTH SIDES OF THE WEB OF BEAMS AT POINTS OF CONCENTRATED

BELOW, WHICHEVER IS GREATER, U.N.O. 16. PROVIDE 1/2" MINIMUM THICKNESS STIFFENERS ON ALL BEAMS RUNNING OVER TOPS OF COLUMNS. MINIMUM

SIZE OF WELD TO BE 1/4" FILLET WELD, U.N.O. 17. ALL STEEL NOT REQUIRED TO BE SHOP PAINTED (SEE SPECIFICATIONS) SHALL BE CLEANED OF OIL, GREASE, DIRT, RUST, LOOSE MILL SCALE, ETC. AND ALL OTHER FOREIGN MATERIALS

18. GALVANIZING OF ALL STEEL MEMBERS SHALL CONFORM TO ASTM A123. ALL GALVANIZED STEEL REQUIRED TO BE PAINTED SHALL BE CLEANED AND PREPPED ACCORDING TO ASTM D6386.

19. ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS LATEST EDITIONS. WELDING SHALL BE INSPECTED AND TESTED AS NOTED IN THE SPECIFICATIONS. WELDING INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELDING INSPECTOR FINAL BOLTING OR WELDING SHALL NOT BE PERFORMED UNTIL THE STRUCTURE HAS BEEN PROPERLY ALIGNED.

ERECT AND FULLY WELD AND INSPECT FIELD BUILT STEEL TRUSSES BEFORE ANY LOADS ARE APPLIED. SHORE TRUSS MEMBERS AS REQUIRED. CONTACT ARCHITECT/ENGINEER FOR APPROVAL BEFORE REMOVING SHORING AND LOADING THE TRUSSES 21. THE STEEL FRAME IS CLASSIFIED AS A NON-SELF SUPPORTING STEEL FRAME WHICH RELIES ON ROOF

DIAPHRAGM FOR LATERAL STABILITY OF THE STEEL FRAME. TEMPORARY BRACES USED FOR ERECTION OF THE STEEL FRAME SHALL NOT BE REMOVED UNTIL THE ROOF IS IN PLACE AND CONNECTED TO THE STEEL FRAME AS SHOWN ON THE CONTRACT DOCUMENTS.

J. STEEL ROOF DECKING

1. THE DESIGN, FABRICATION, AND ERECTION OF STEEL DECKING SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE LATEST SDI STANDARDS AND SPECIFICATIONS a. STEEL ROOF DECK: ANSI/SDI RD-2017, STANDARD FOR STEEL ROOF DECK

2. STEEL DECKING FOR THE CONSTRUCTION OF ROOF DIAPHRAGMS IS BASED ON ON THE SDI DIAPHRAGM DESIGN MANUAL (FOURTH EDITION) AND AISI S310, NORTH AMERICAN STANDARD FOR THE DESIGN OF PROFILED STEEL DIAPHRAGM PANELS.

STEEL DECK SHALL BE ATTACHED TO SUPPORTING STEEL AS INDICATED 4. ROOF DECK ENDS SHALL BE BUTTED OR LAPPED OVER SUPPORTS

5. SUSPENDED CEILINGS, LIGHT FIXTURES, EQUIPMENT, DUCTS, OR OTHER UTILITIES SHALL NOT BE SUPPORTED BY THE STEEL ROOF DECK.

POST-INSTALLED ANCHORS IN CONCRETE OR MASONRY:

POST-INSTALLED ANCHORS (MECHANICAL OR ADHESIVE) SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ENGINEER-OF-RECORD PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS OR DOWELS. POST-INSTALLED ANCHORS SHALL BE BUILDING CODE COMPLIANT, INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS AND INSPECTED PER THE APPLICABLE ICC $^\circ$ ES OR IAPMO UES EVALUATION REPORT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION

14. ALL COLUMN BEARING PLATES SHALL BE SIZED AS SHOWN AND SHALL HAVE ROLLED OR GAS CUT EDGES LOAD. MINIMUM STIFFENER PLATE THICKNESS TO BE 1/2" OR FLANGE THICKNESS OF COLUMNS ABOVE OR

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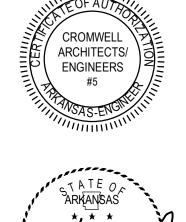
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Design Phase -CONSTRUCTION **DOCUMENTS**

Description Date





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Sheet Number

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STRUCTURAL DESIGN

CRITERIA, GENERAL NOTES

AND COMPONENTS AND

CLADDING PRESSURES

2023-049

06-30-2023

4. POSITIVE / NEGATIVE VALUES INDICATE FORCES ARE ACTING TOWARDS / AWAY FROM ELEMENT, RESPECTIVELY. SERVICE LEVEL LOADS MAY BE CALCULATED BY MULTIPLYING THE NUMBERS ABOVE BY 0.6 ROOF UPLIFT WIND PRESSURES ARE APPLICABLE TO CANOPY STRUCTURES ONLY. 7. WALL WIND PRESSURES ARE APPLICABLE TO ARCHITECTURAL FEATURES ADDED TO THE

GROSS WIND UPLIFT

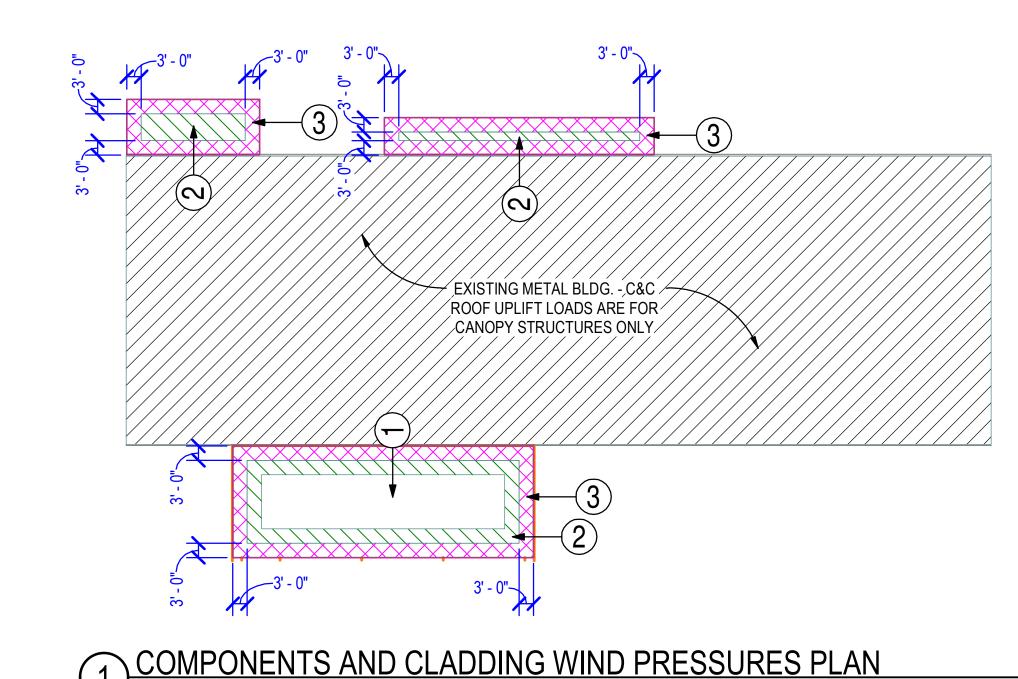
WIND PRESSURES ARE BASED ON ASCE 7-16 STRENGTH DESIGN (ULTIMATE).

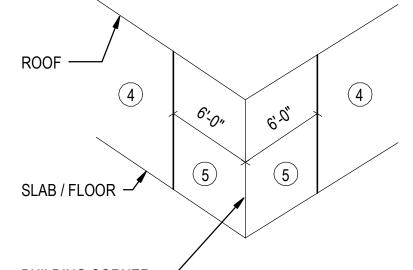
ULTIMATE WIND SPEED: 107 MPH

NOMINAL WIND SPEED: 83 MPH

EXISTING BUILDING WALLS ONLY.

(STRENGTH DESIGN) TRIBUTARY AREA (SQ. FT.) <= 9 > 9, <= 36 > 36 | 1 | -21/+23 PSF | -21/+23 PSF | -21/+23 PSF **2 |** -32/+35 PSF | -32/+35 PSF | -21/+23 PSF **3** | -62/+46 PSF | -32/+35 PSF | -21/+23 PSF

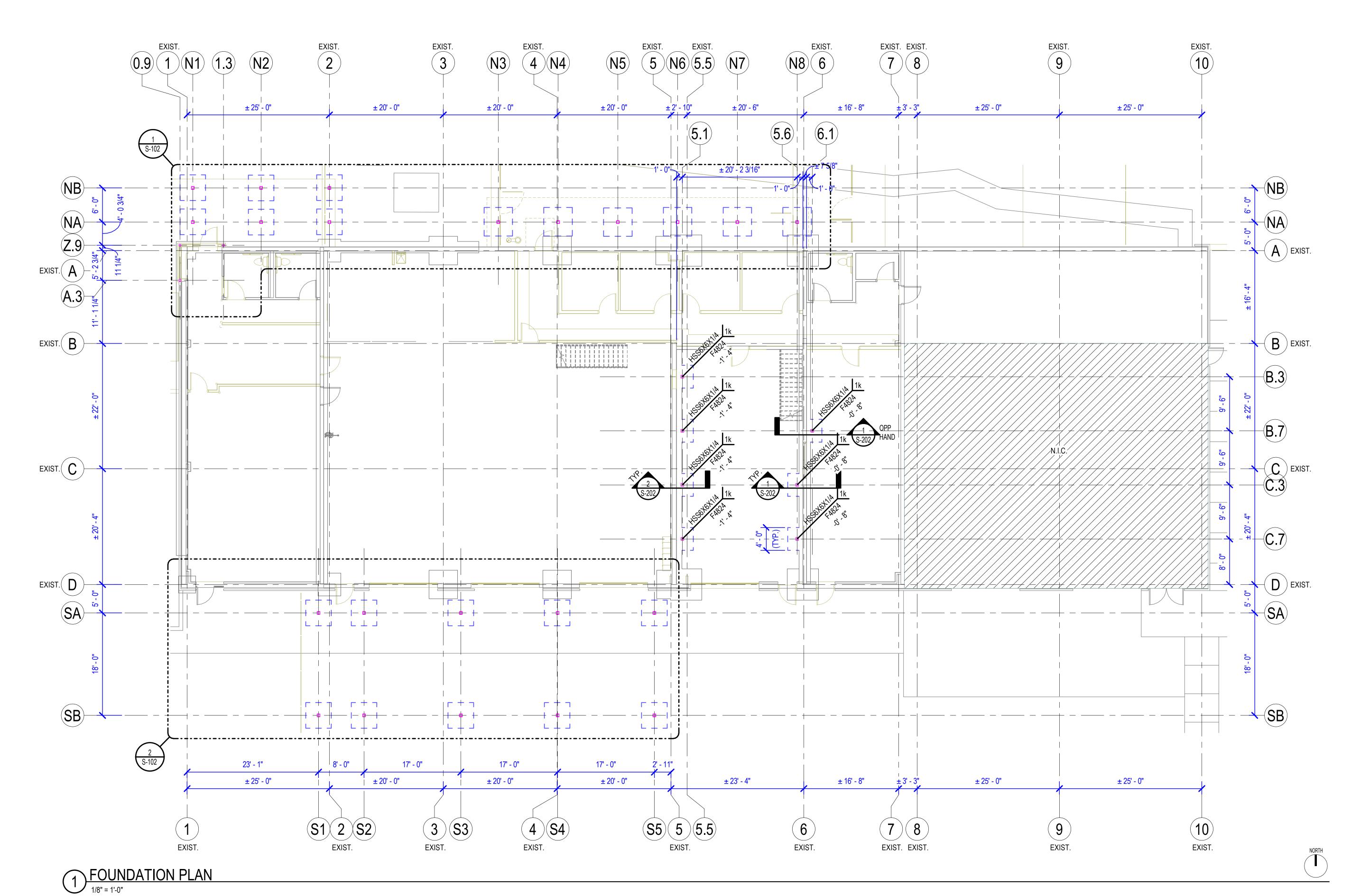




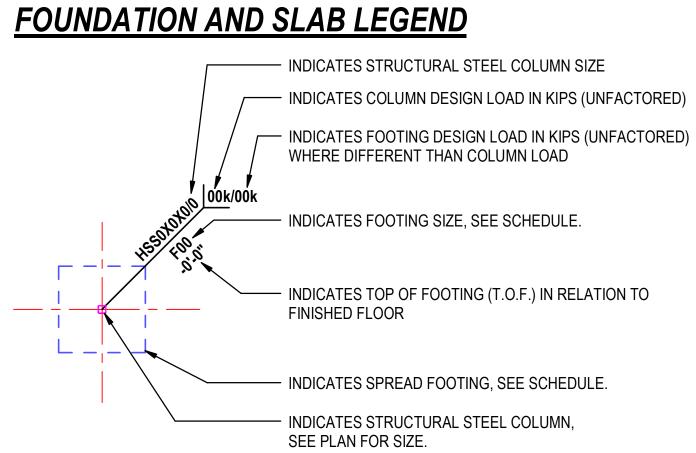
BUILDING CORNER TRIBUTARY AREA (SQ. FT.) ZONE 10 50 100 4 -18/+17 PSF | -17/+16 PSF | -16/+16 PSF 5 | -23/+17 PSF | -19/+16 PSF | -18/+16 PSF

COMPONENTS AND CLADDING WALL WIND PRESSURES

COMPONENTS AND CLADDING ROOF WIND PRESSURES







FOUNDATION SCHEDULE					
MARK#	L	W	Т	REINFORCING	
F54	4' - 6"	4' - 6"	1' - 4"	5-#5 EA WAY	
F60	5' - 0"	5' - 0"	1' - 4"	6-#5 EA WAY	
F4824	2' - 0"	4' - 0"	1' - 0"	5-#5 (LONG DIM) 3-#5 (SHORT DIM)	



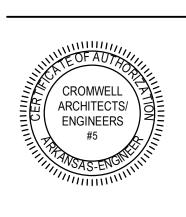
NWACC ITSTI BIKE LAB
NORTHWEST ARKANSAS COMMUNITY COLLE
1 COLLEGE DRIVE

Design Phase

CONSTRUCTION

DOCUMENTS

DOCUMENTS						
Revisio	ons —					
No.	Date	Description				





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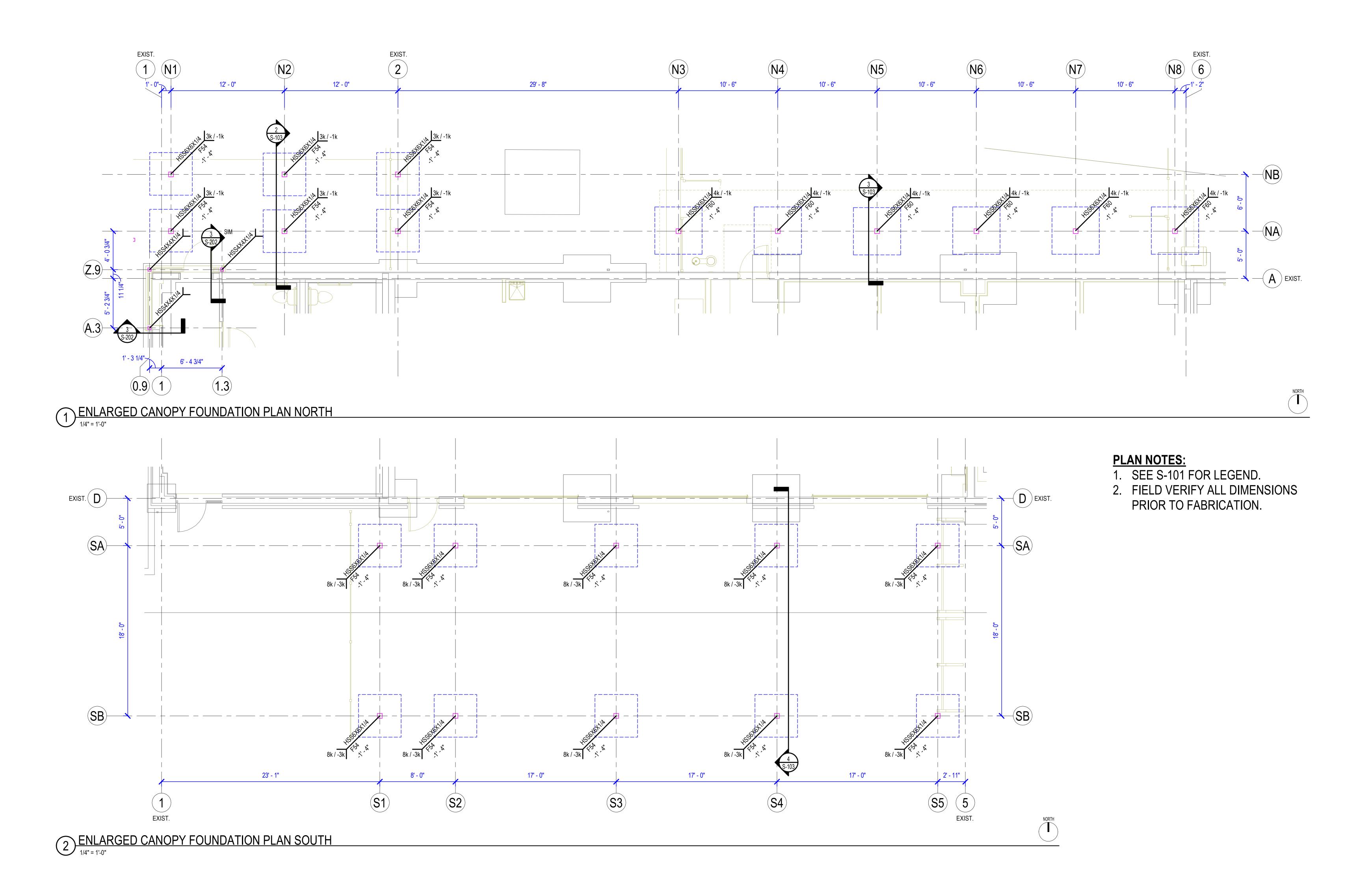
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Issue Date 06-30-2023

FOUNDATION PLAN

Sheet Number ———

S-101

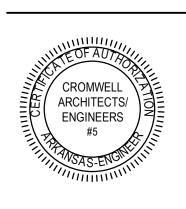




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ORTHWEST ARKANSAS COMMUNITY COLLEGE
1 COLLEGE DRIVE

Desi	ian Phase —						
200	CONS	TRUCTION CUMENTS					
Revi	Revisions —						
No.	Date	Description					

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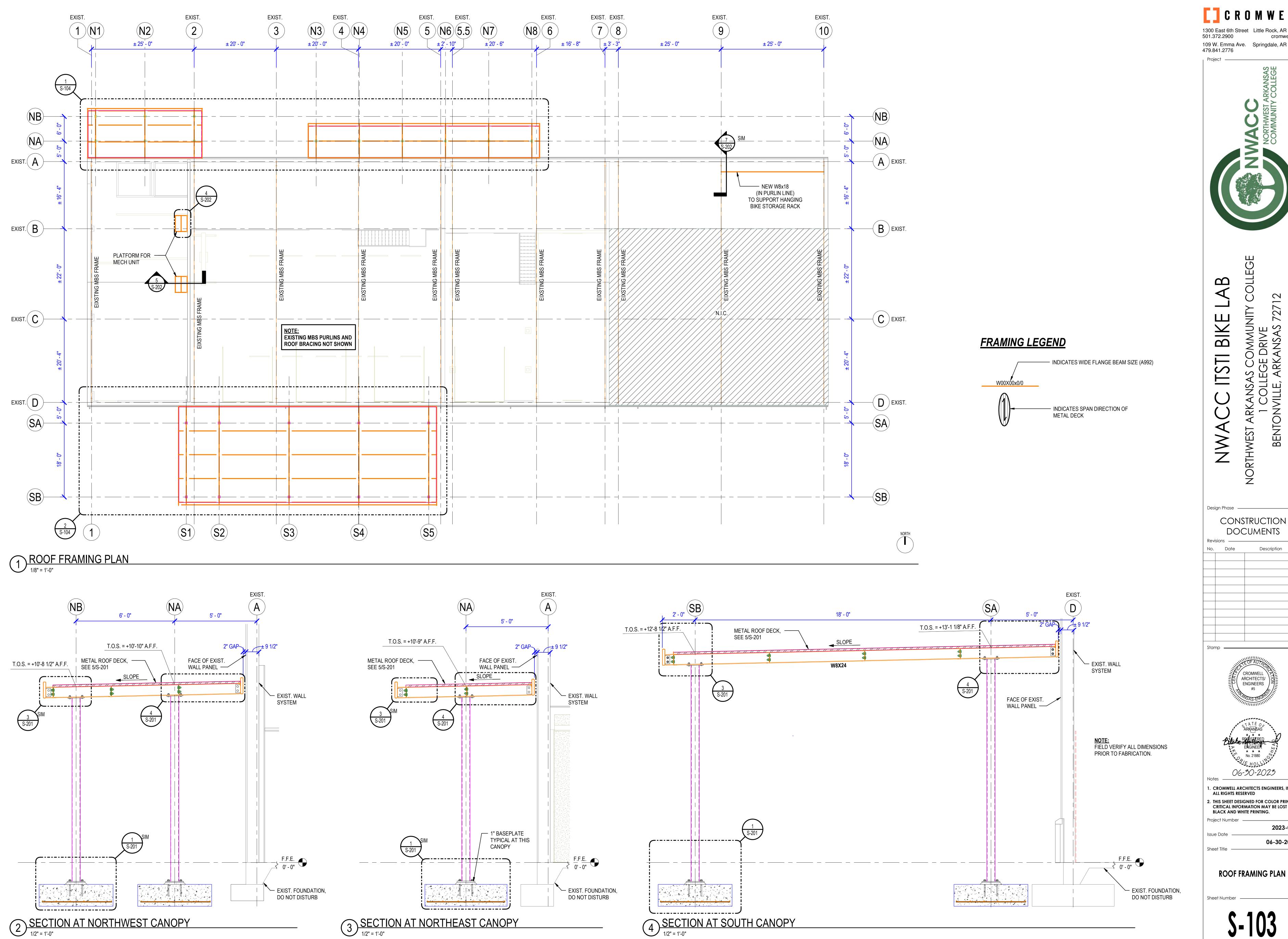
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Project Number 2023-049
Issue Date 06-30-2023

ENLARGED CANOPY FOUNDATION PLANS

Sheet Number —

S-102



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BIKE IISII A X Z

ARCHITECTS/ ENGINEERS

DOCUMENTS

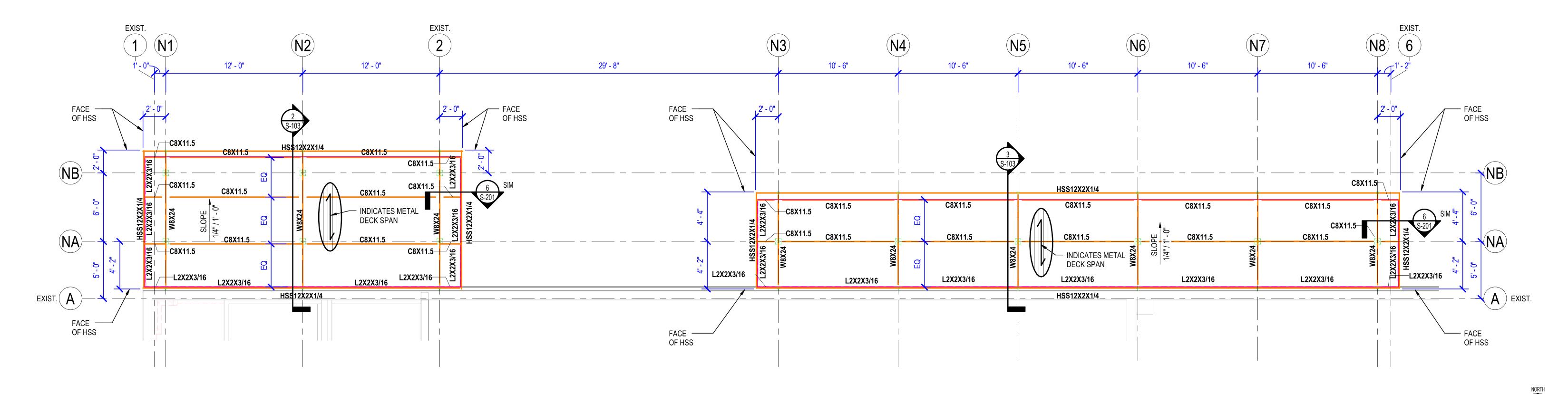
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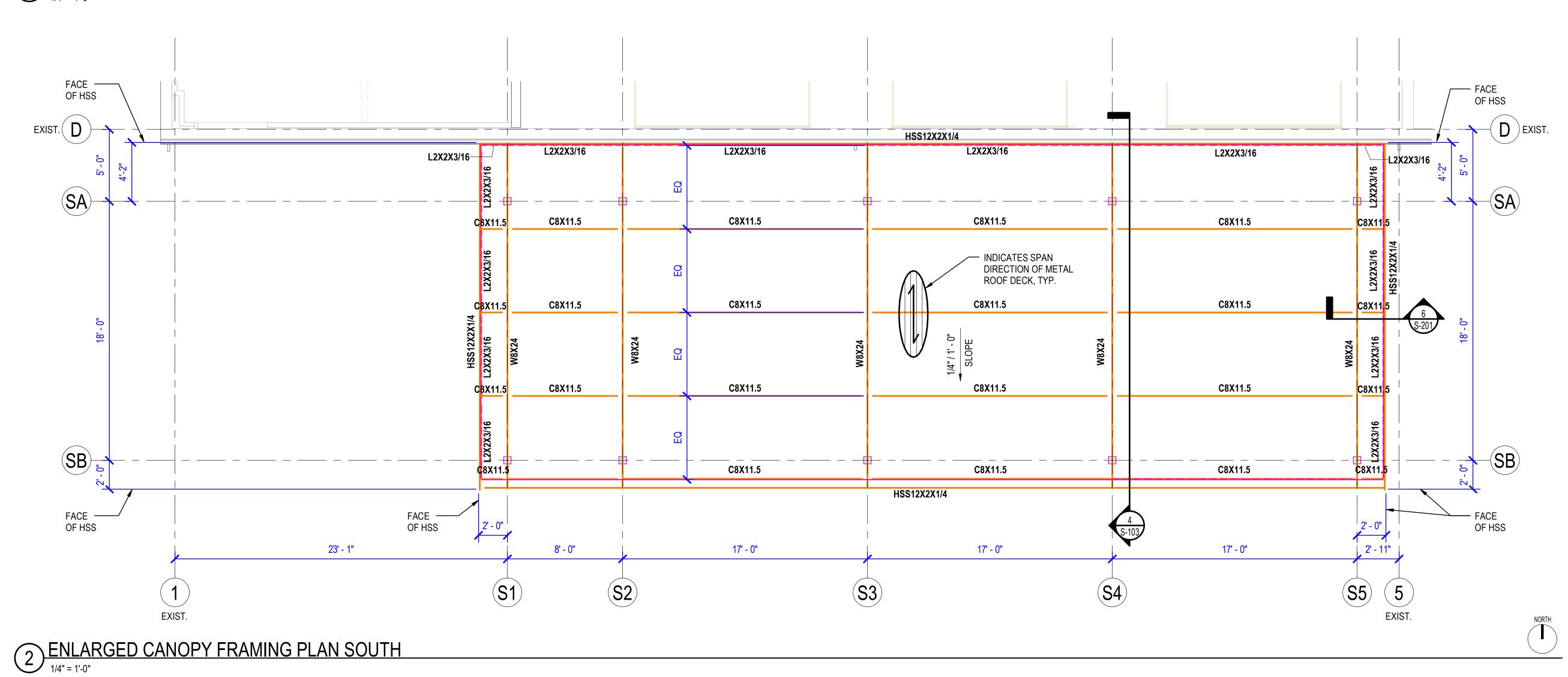
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ROOF FRAMING PLAN



ENLARGED CANOPY FRAMING PLAN NORTH

1/4" = 1'-0"



PLAN NOTES:

- 1. SEE S-103 FOR LEGEND.
- 2. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

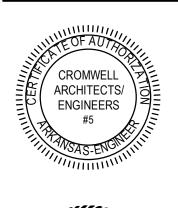




NORTHWEST ARKANSAS COMMUNITY COLLEGE DRIVE

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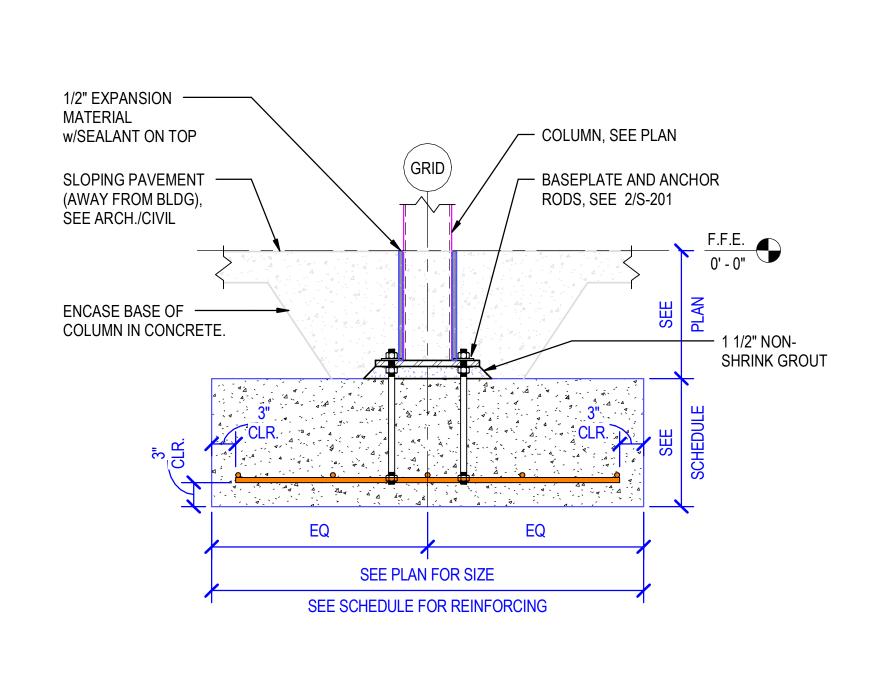
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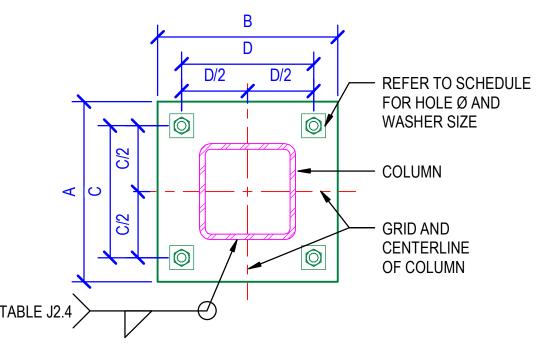
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06-30-2023Sheet Title

ENLARGED CANOPY FRAMING PLANS

S-104





D/2 D/2 REFER TO FOR HOL	D SCHEDULE E Ø AND
WASHER	SIZE COL SIZE
< ○ + COLUMN	HSS4X4 HSS6X6
GRID AND CENTERL OF COLU	INE HSS6X6 (NE CANODY)
2.4	(INTERIOR)

ISC TABLE J2.4	3		
TYI	PICAL COL	UMN BASEPLATE	
IEAVY HEX NUT			
PLATE WASHER, SEE CHART	\	<u>0</u>	
PLATE WASHER ON TOP OF EVELING NUT, IF USED, TO MATCH VASHER WIDTH FROM CHART	1	PROJECTION	
OP OF FOUNDATION ————————————————————————————————————			
NCHOR ROD, SEE SCHEDULE AND NOTE 5/S-001		MINIMUM EMBEDMENT SEE COLUMN SCHEDULE	
IEAVY HEX NUT ———————————————————————————————————		SEE COI	
TACK WELD		W W Ea	

TYPICAL BASE PLATE SCHEDULE							
COL SIZE	PLATE THICKNESS	Α	В	С	D	ANCHOR ROD Ø	MIN. EMBEDMENT
HSS4X4	1/4"	4"	4"			NONE	
HSS6X6 (TYP CANOPY)	1 1/4"	1'-1"	1'-1"	9"	9"	3/4"	1'-0"
HSS6X6 (NE CANOPY)	1 1/4"	1'-1"	1'-1"	9"	9"	1"	1'-0"
HSS6X6 (INTERIOR)	1 1/4"	1'-1"	1'-1"	9"	9"	1/2"	1'-0"

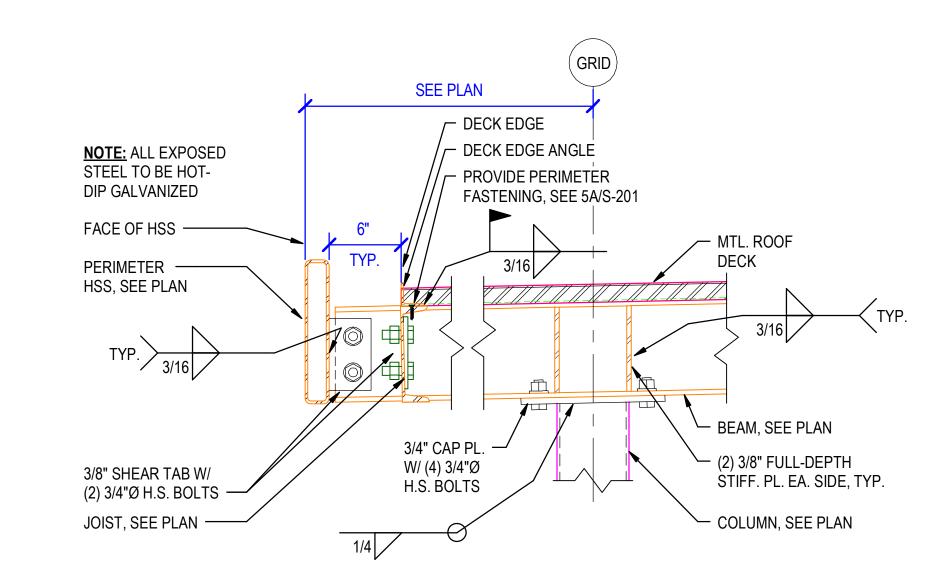
ANCHOR ROD WASHERS AND HOLES SIZE					
ANCHOR ROD Ø	MAX HOLE Ø	MIN. WASHER SIZE	MIN. WASHER THICKNESS		
1/2	7/8"	2"	1/4"		
3/4	1 5/16"	2"	1/4"		
1	1 7/8"	3"	3/8"		

- NOTES:

 1. THIS CHART IS TAKEN FROM AISC TABLE 14-2. LATEST VERSION OF AISC TABLE 14-2.
- TAKES PRECEDENCE.

 2. CIRCULAR OR SQUARE WASHERS ARE ACCEPTABLE.

 3. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED.

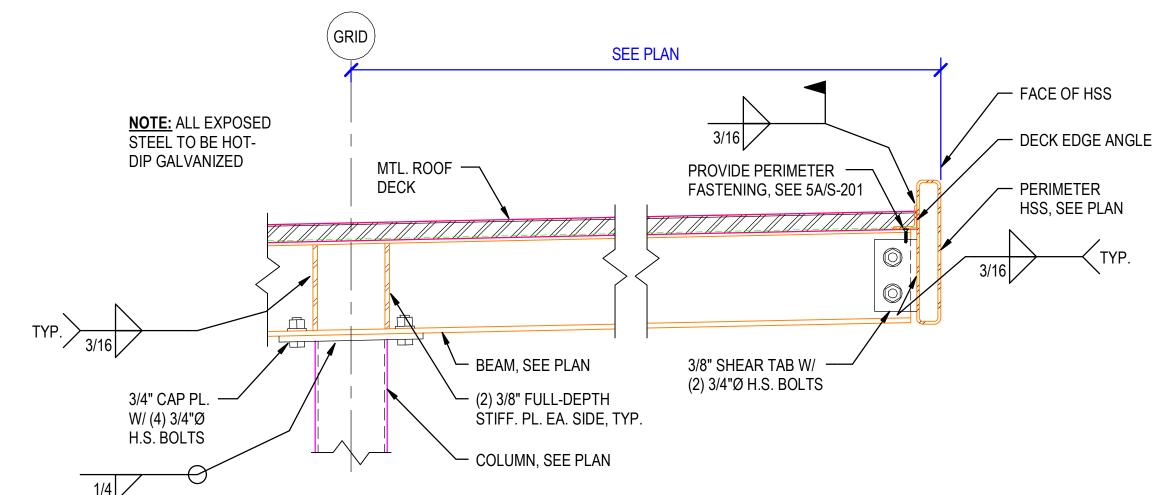


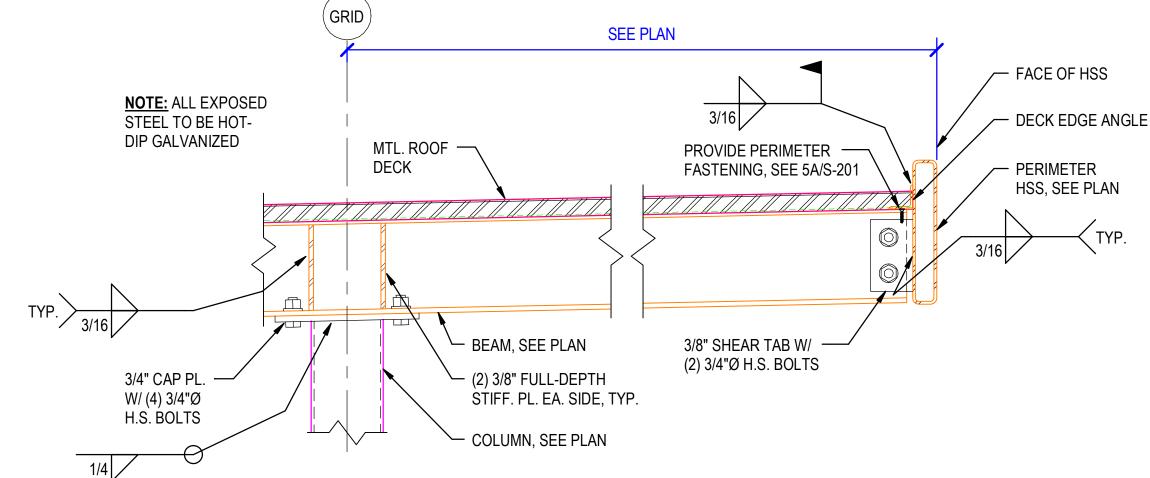
1 TYP. CANOPY SPREAD FTG. DETAIL

2 TYP. CANOPY BASEPLATE AND DETAILS (HSS)
NOT TO SCALE

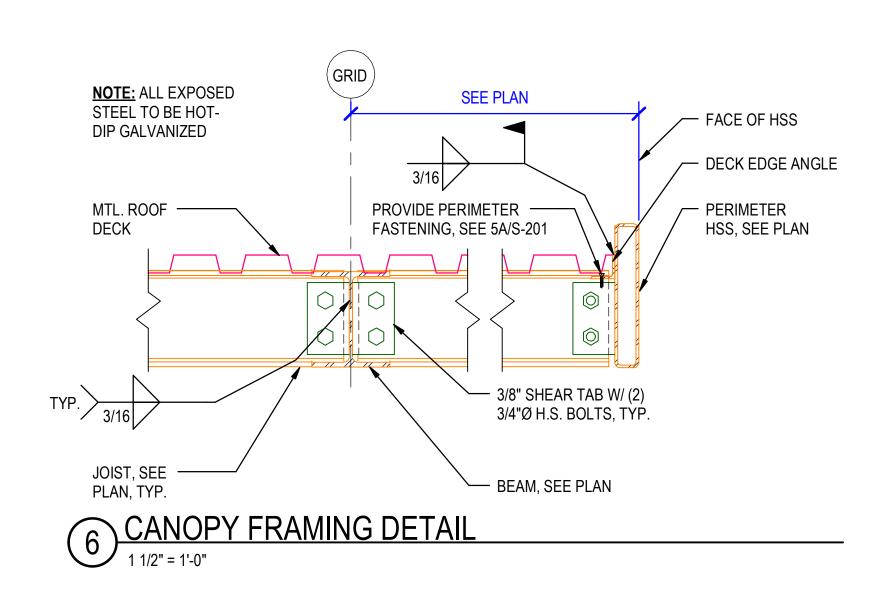
TYPICAL ANCHOR ROD DETAIL

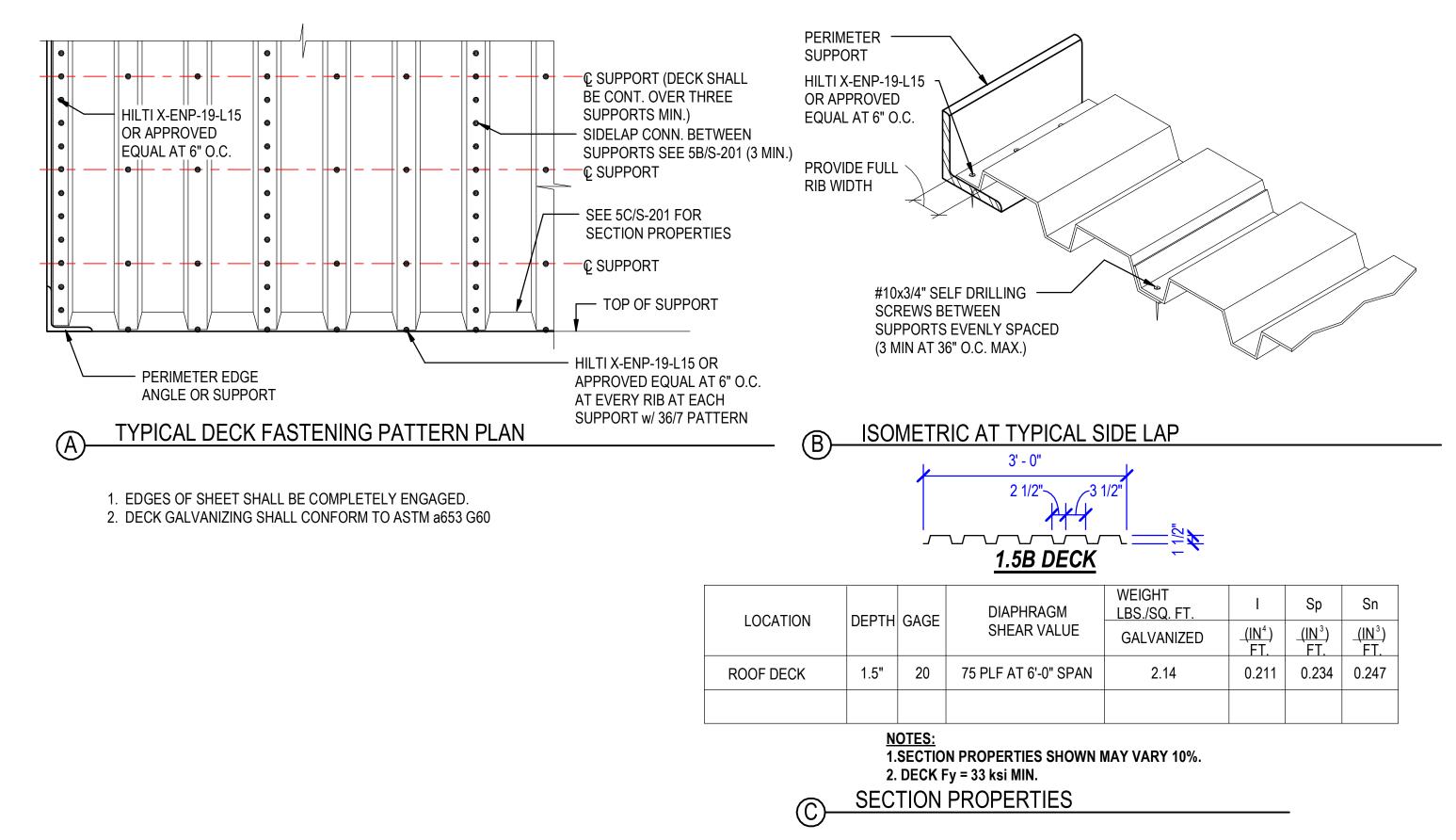
3 CANOPY FRAMING DETAIL
1 1/2" = 1'-0"









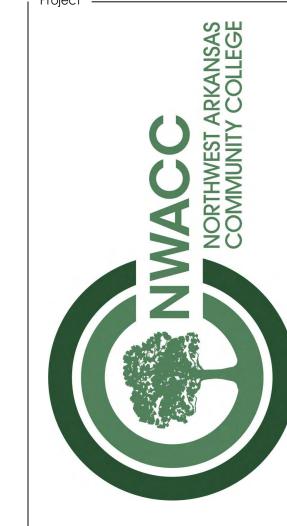


TYPICAL 1.5B ROOF DECK ANCHORAGE

NOT TO SCALE

Design Phase — CONSTRUCTION DOCUMENTS Date Description CROMWELL ARCHITECTS/ ENGINEERS #5 06-30-2023

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BKE

A X Z

WEST ARKANS
1 COI
BENTONVILLE

RTHWEST

CANOPY DETAILS

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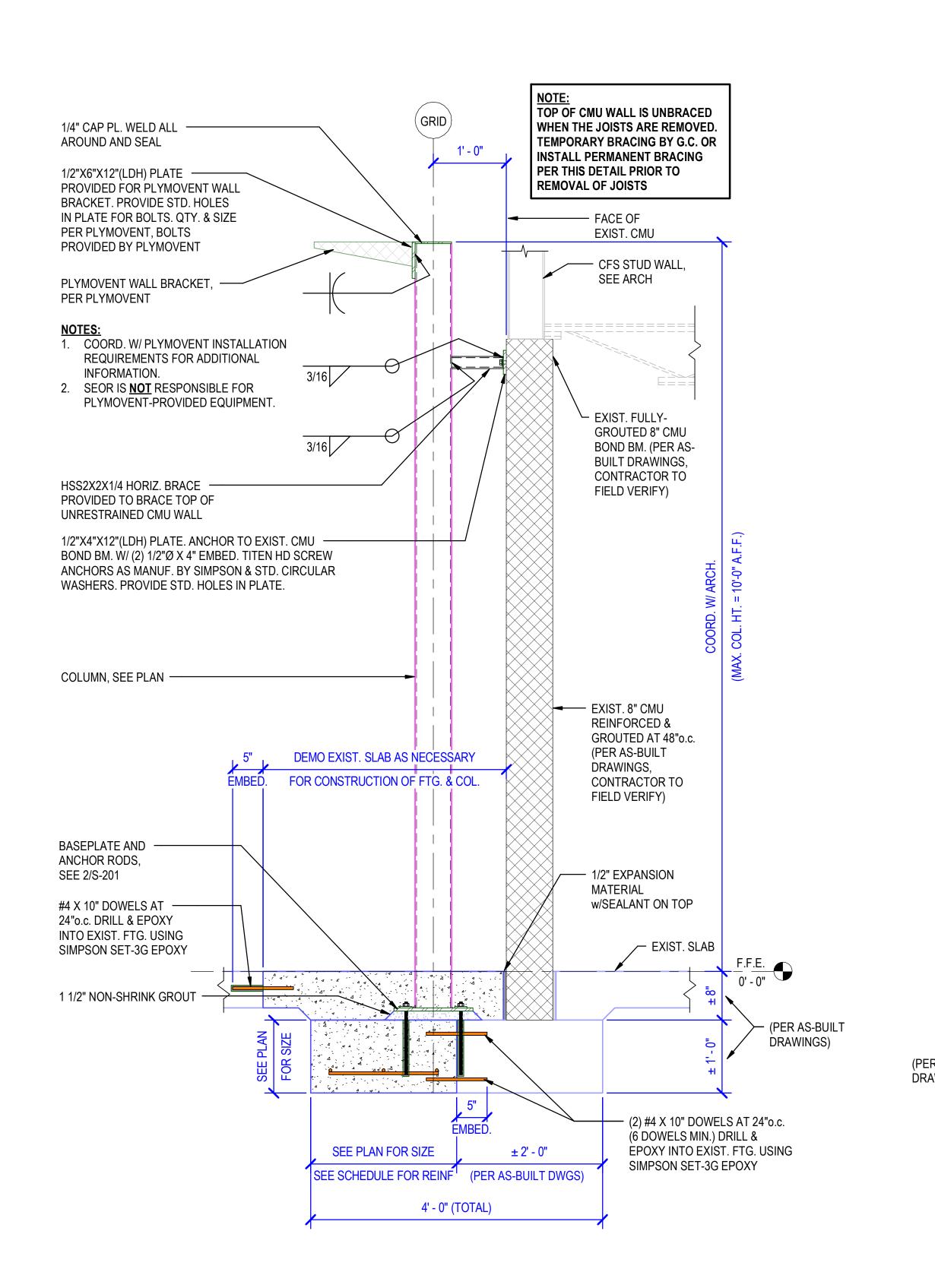
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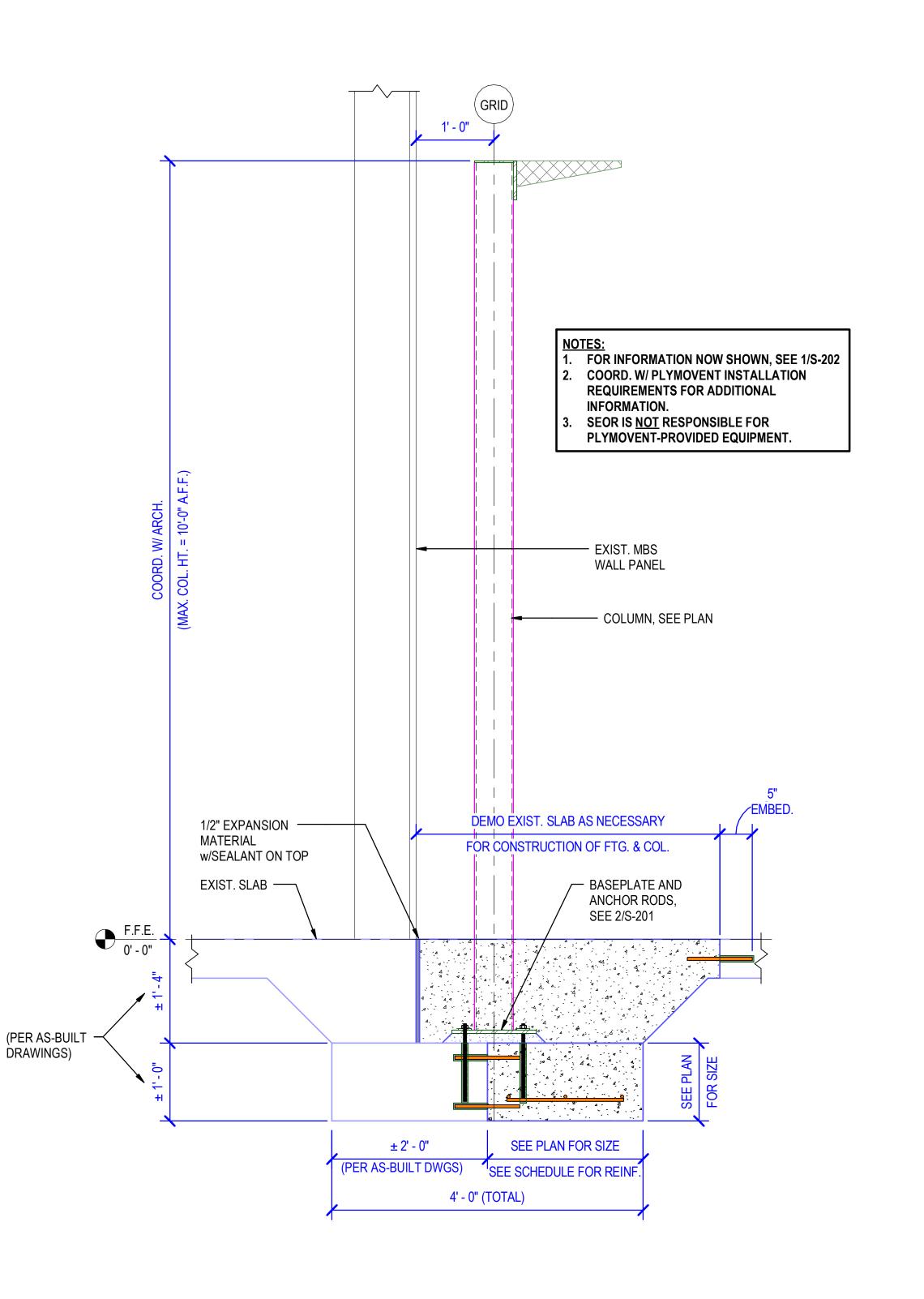
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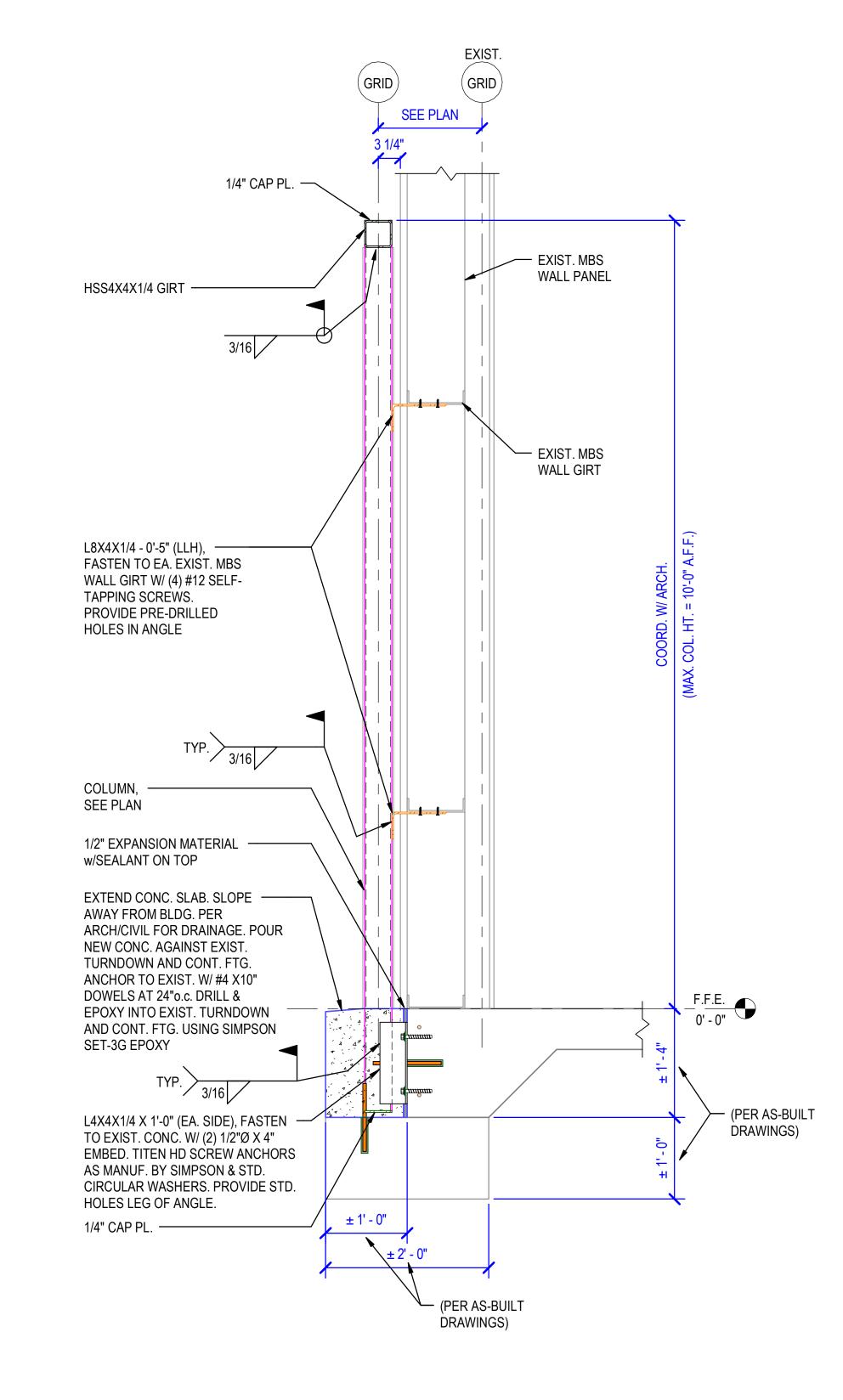
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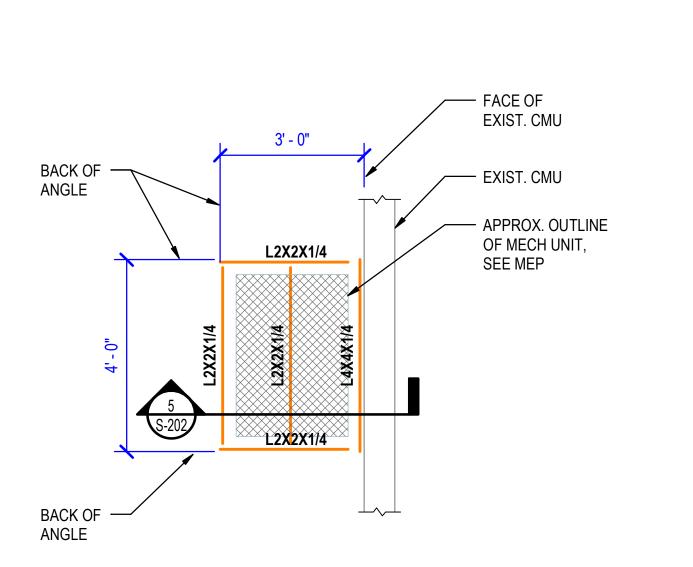
SECTION AT EXHAUST FAN/CMU SUPPORT

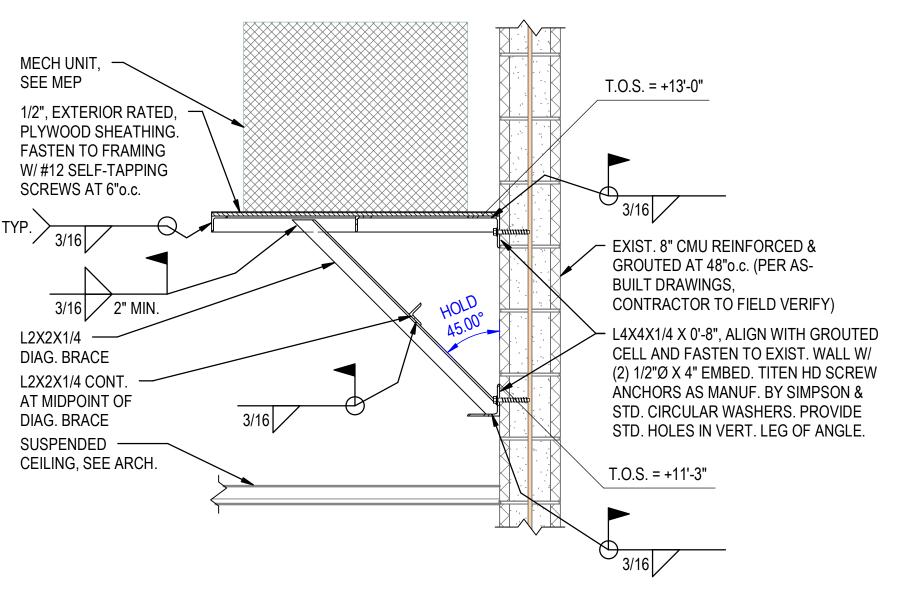
1" = 1'-0"

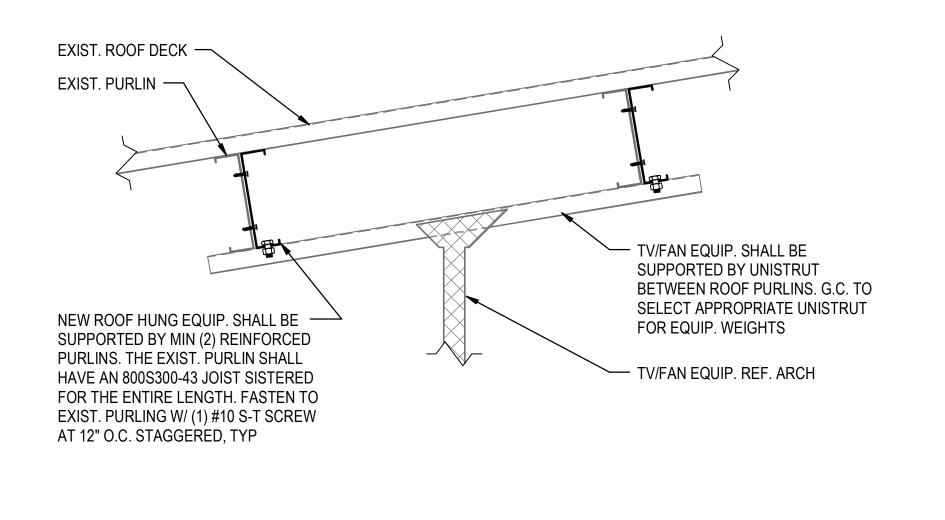
2 SECTION AT EXHAUST FAN SUPPORT

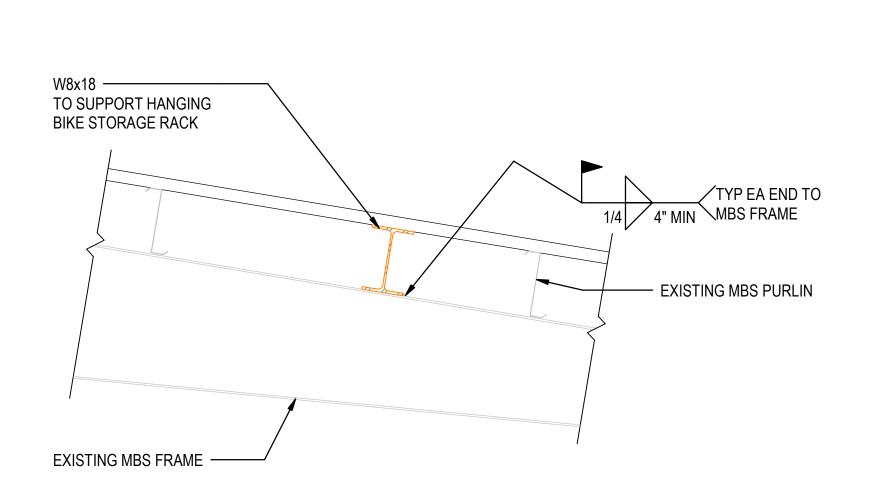
3 SECTION AT ENTRY STOREFRONT

1" = 1'-0"









4 ENLARGED MECH. PLATFORM FRAMING

1/2" = 1'-0"

5 SECTION AT MECH. PLATFORM

6 TYP. REINFORCEMENT AT HUNG EQUIPMENT

7 BIKE RACK SUPPORT BEAM

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Project

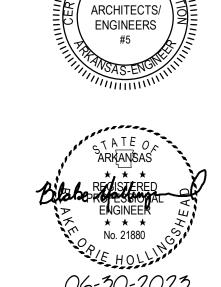


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1 COLLEGE DRIVE
BENTONVILLE, ARKANSAS 72712

CONSTRUCTION DOCUMENTS

Revisions

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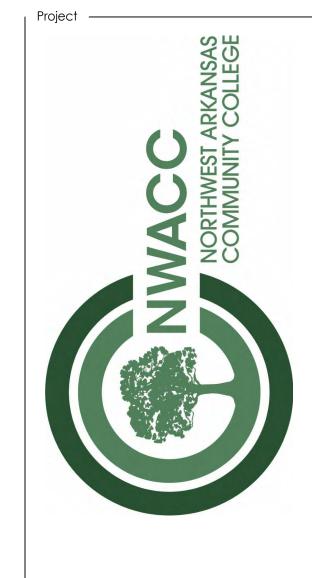
Sheet Number —

S-202

ARCH. SITE PLAN

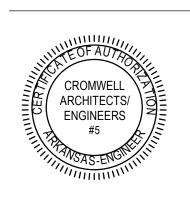
1" = 10'-0"





DRTHWEST ARKANSAS COMMUNITY COLLEGATION S.E. EAGLE WAY

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ARCH. SITE PLAN

Sheet Number ———

AS101

G.C. GATE LOCK INFORMATION

GATE 'A': G.C. TO COORDINATE WITH CLIENT FOR LOCKING OF GATE ONCE INSTALLATION OF THE FENCE IS COMPLETE

GATE 'B': G.C. TO COORDINATE WITH CLIENT FOR LOCKING OF GATE ONCE INSTALLATION OF THE FENCE IS COMPLETE

GATE 'C': G.C. TO COORDINATE WITH CLIENT FOR LOCKING OF GATE ONCE INSTALLATION OF THE FENCE IS COMPLETE

GATE 'D': G.C. TO COORDINATE WITH LOCAL ELECTRICAL COMPANY FOR LOCKING OF GATE FOR ACCESS TO TRANSFORMER WITHIN ENCLOSED OUTDOOR SPACE ONCE INSTALLATION OF THE FENCE IS COMPLETE

GATE 'E': G.C. TO COORDINATE WITH CLIENT FOR LOCKING OF GATE ONCE INSTALLATION OF THE FENCE IS COMPLETE

NEW CONCRETE STEP RE: CIVIL

METAL CANOPY RE: STRUCTURAL

NEW SIDEWALK FLATWORK RE: CIVIL ———

NEW HANDRAIL RE: CIVIL -

NEW RAMP RE: CIVIL —

TO REMAIN.

EXISTING SIDEWALK

NEW FLATWORK AT

BLOCKS AS NOTED

EXISTING PLANTER WITH RE-USED RETAINING WALL

RAMP LANDING

RE: CIVIL

PROTECT IN PLACE, TYP

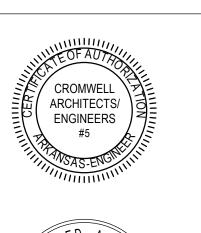
ENLARGED PLAN AT ENTRY

GATE 'F': G.C. TO COORDINATE WITH CLIENT FOR LOCKING OF GATE ONCE INSTALLATION OF THE FENCE IS COMPLETE



BIKE A X Z

CONSTRUCTION DOCUMENTS Description





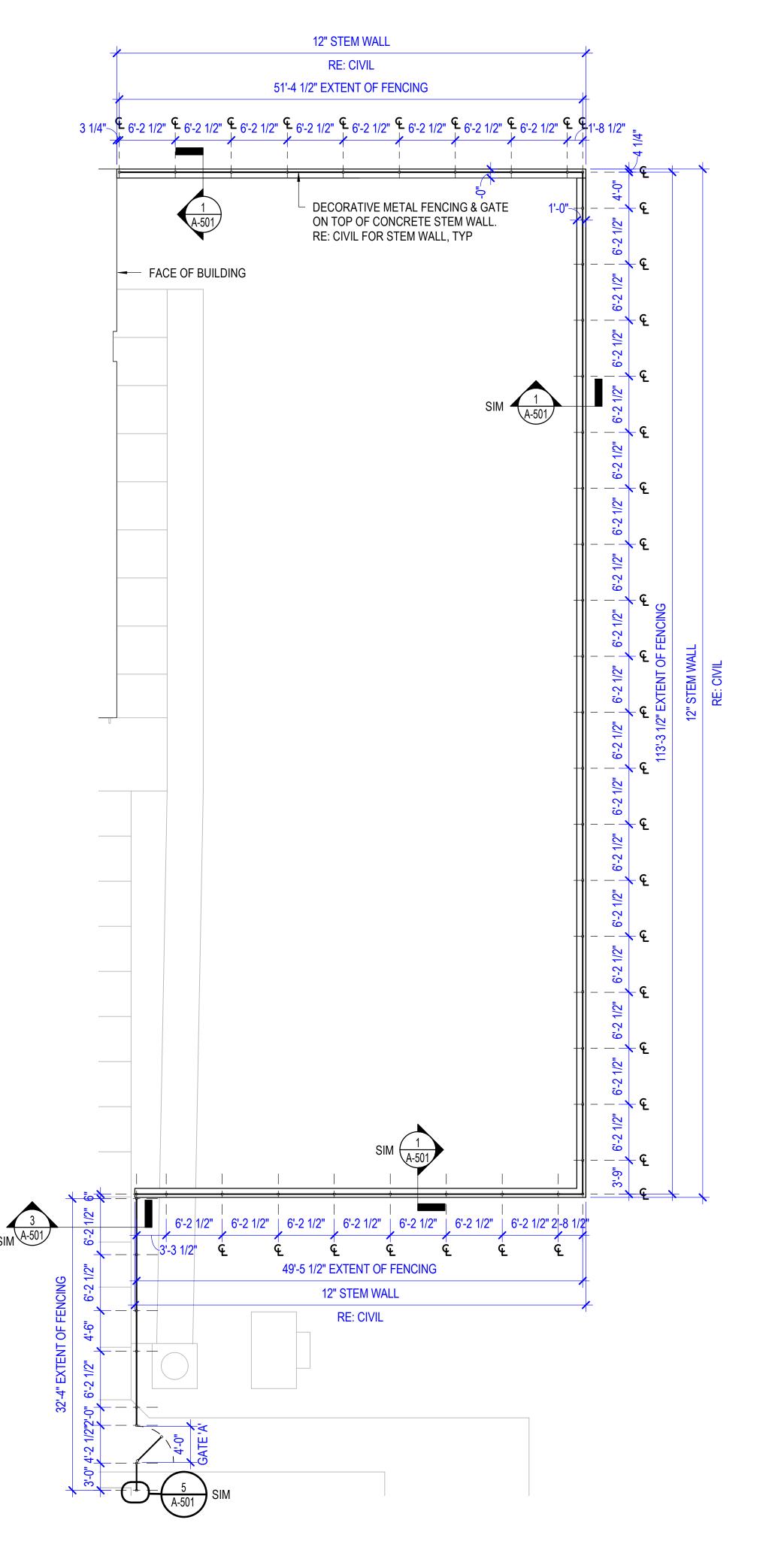
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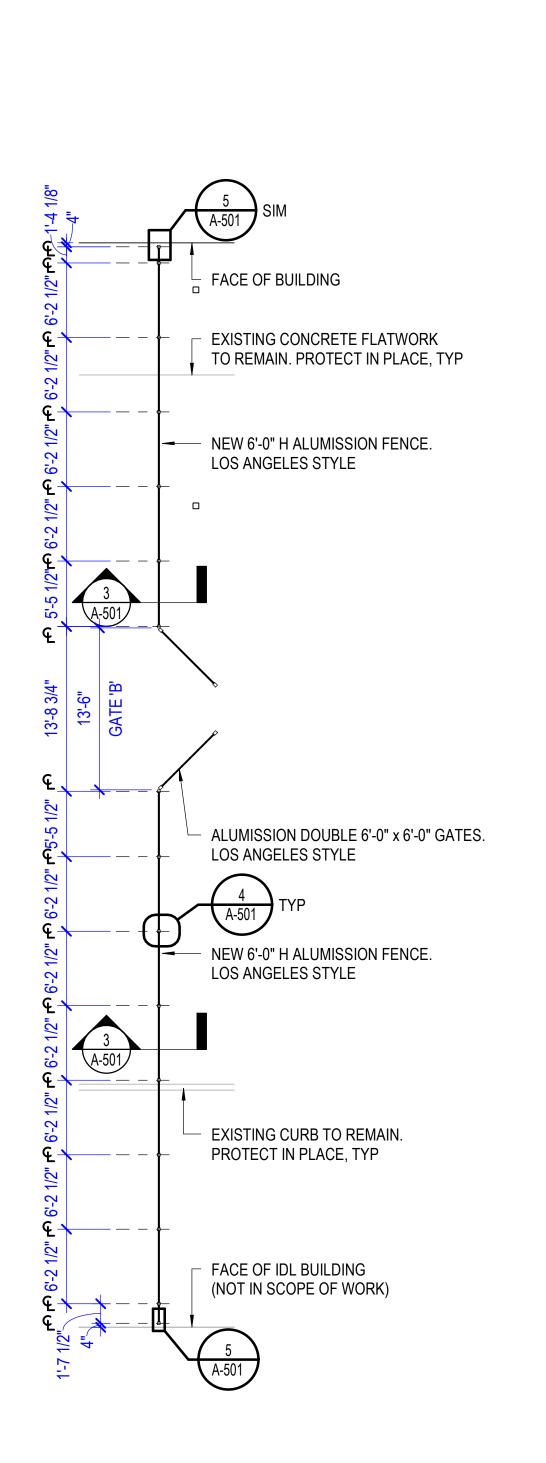
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Sheet Title ——

ARCH. SITE PLAN LARGE **SCALE PLANS**

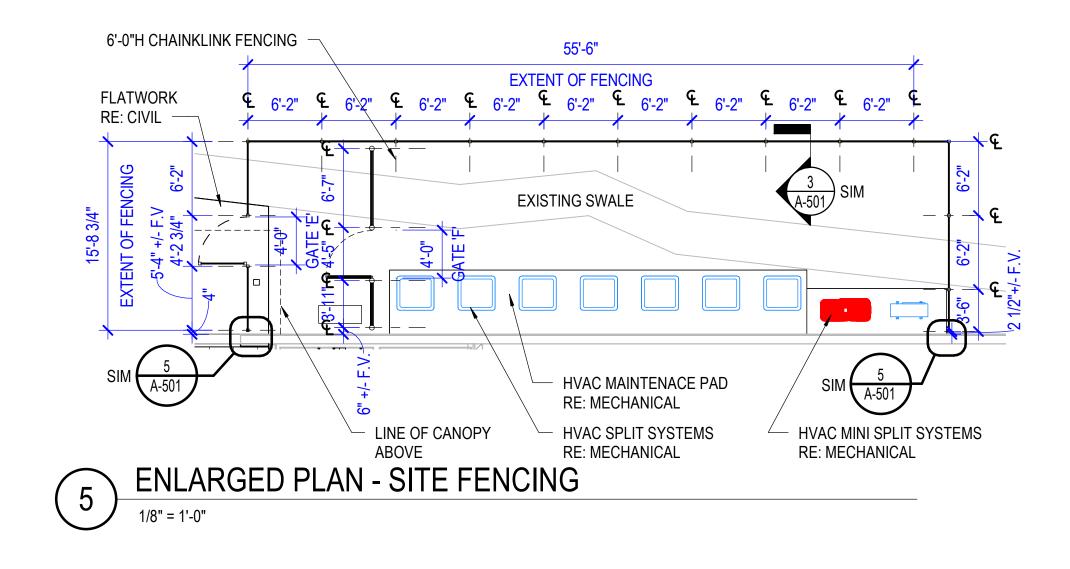


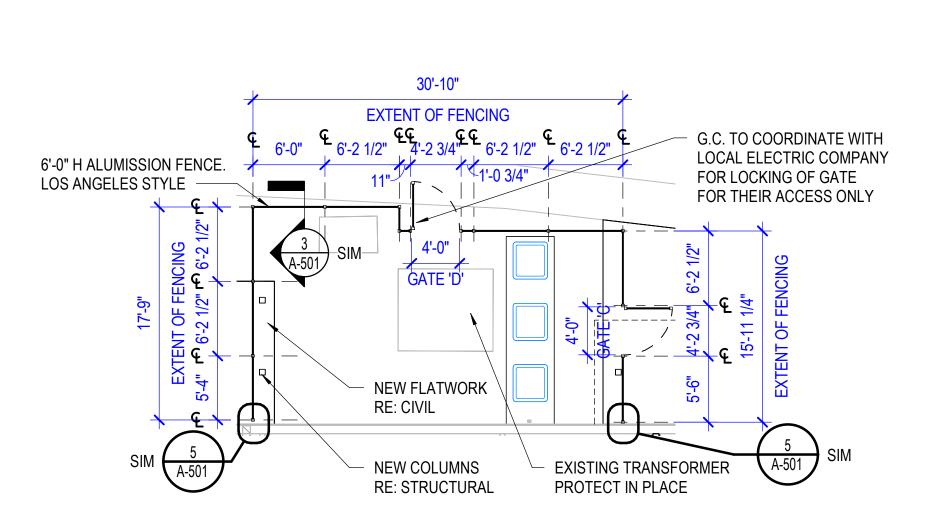




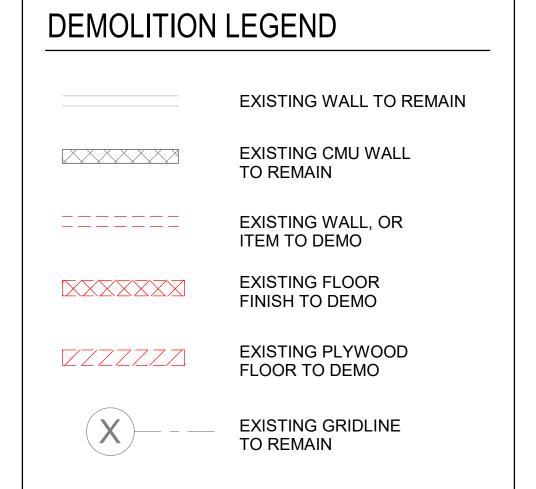












10

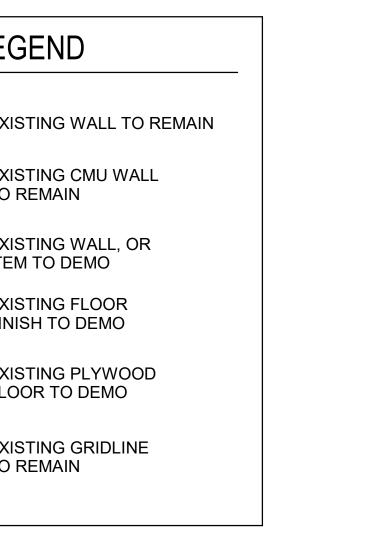
-(A)

B

 \overline{C}

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

	DEMOLITION KEY NOTES
NUMBER	DESCRIPTION
4	
1	REMOVE SIN
2	REMOVE H.M. DOOR(S) AND FRAME(S)
3	REMOVE WINDOWS
4	REMOVE H.M. DOOR AND FRAME. PROTECT FOR RE-USE AS NOTED ON SHEET A101
5	REMOVE PORTION OF CMU WALL TO 7'-4" A.F.F
6	REMOVE ALL RESTROOM ACCESSORIE. PATCH AND REPAIR WALL WHERE ACCESSORIES WERE REMOVED
7	REMOVE FLOOR FINISHES. REPAIR AND PREP SLAB FOR NEW FINISH
8	REMOVE PLYWOOD FLOORING AND STEEL ANGLE ATTACHED TO CM. PATCH AND REPAIR CMU FOR NEW CONSTRUCTION
9	REMOVE PLYWOO
10	REMOVE PORTION OF PEMB METAL PANEL AND INSULATION
11	REMOVE PORTION OF CMU WAINSCOT AT NEAREST JOINT AND PRECAST CONCRETE CAP ON TO
12	REMOVE PORTION OF CONCRETE SLAB AT OVERHEAD DOOR
13	REMOVE ELECTRIC WATER COOLER
14	REMOVE PORTION OF INTERIOR METAL STUD WAL. EXTENT OF WALL REMOVAL IS 3'-0" AFF TO 7'-0' AFF
15	REMOVE INTERIOR METAL STUD WALL
16	REMOVE OVERHEAD DOOR, TRACK, AND ASSOCIATED EQUIPMENT. REPAIR AND PREP OPENINGS FOR NEW DOOR
17	REMOVE PORTION OF RETAINING WALL BLOCKS AND FLOWER BE
18	REMOVE CHAIN-LINK FENCING
19	REMOVE UTILITY SINK
21	REMOVE DOWNSPOUT
22	REMOVE PORTION OF RETAINING WALL BLOCKS AND FLOWER BED. RETAINING WALL BLOCKS TO BE STORED AND RE-USED AS NOTED ON SHEET A-101 FLOOR



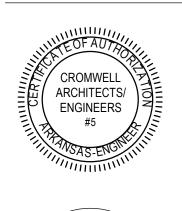
	DEMOLITION KEY NOTES				
NUMBER					
1	REMOVE SIN				
2	REMOVE H.M. DOOR(S) AND FRAME(S)				
3	REMOVE WINDOWS				
4	REMOVE H.M. DOOR AND FRAME. PROTECT FOR RE-USE AS NOTED ON SHEET A101				
5	REMOVE PORTION OF CMU WALL TO 7'-4" A.F.F				
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19	REMOVE UTILITY SINK				
21	REMOVE DOWNSPOUT				
22	REMOVE PORTION OF RETAINING WALL BLOCKS AND FLOWER BED. RETAINING WALL BLOCKS TO BE STORED AND RE-USED AS NOTED ON SHEET A-101 FLOOR PLAN				
23	REMOVE PORTION OF INTERIOR METAL STUD WALL				
24	REMOVE MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK (IF APPLICABLE). RE: DEMO MECHANICAL				



BIKE ITSII A X Z

CONSTRUCTION DOCUMENTS

Description





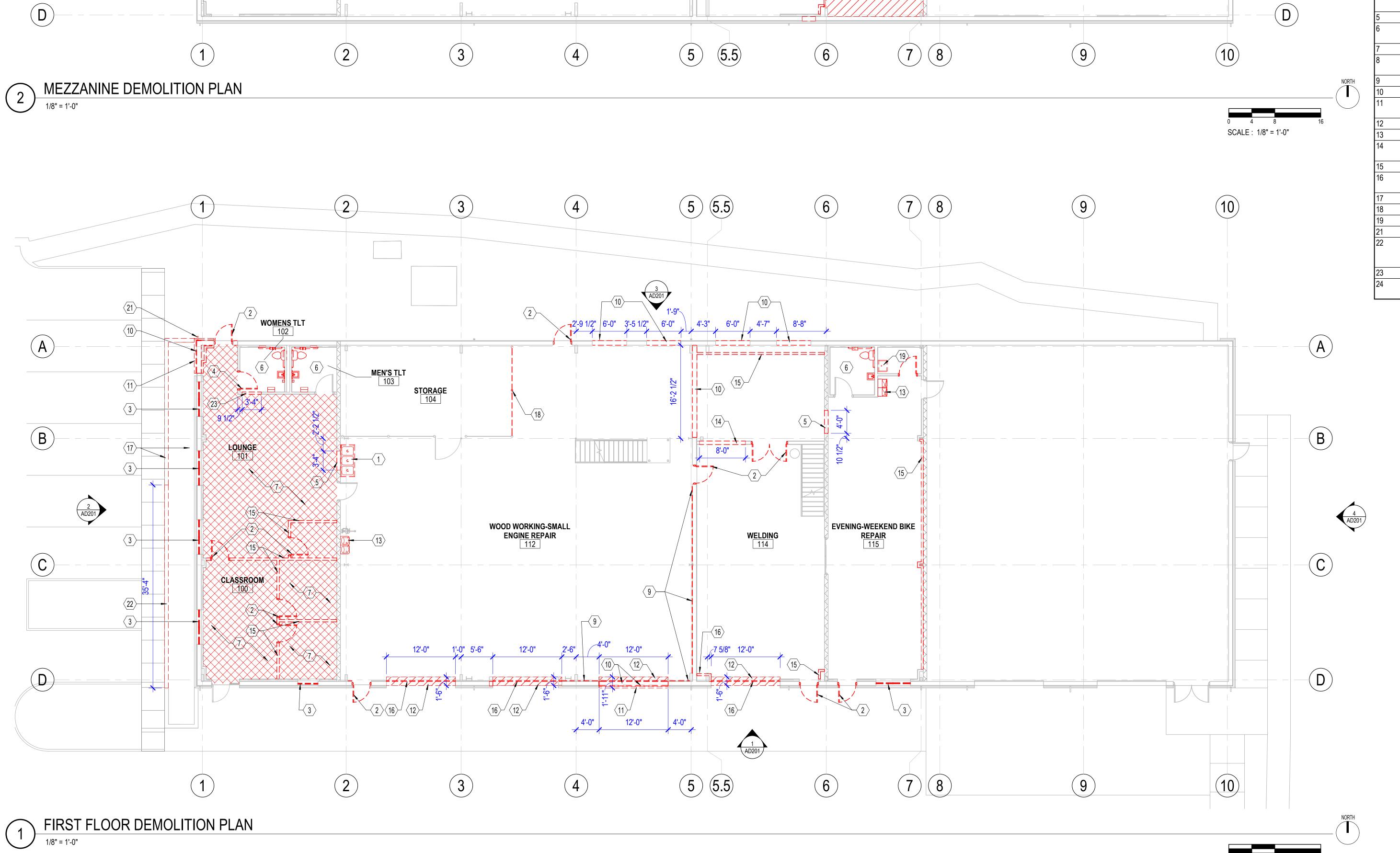
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Project Number — 2023-049 Issue Date ———

06-30-2023 Sheet Title ———

> **DEMOLITION FLOOR PLANS**

Sheet Number ——



2

OPEN TO BELOW

A

B

(C)

3

OPEN TO BELOW

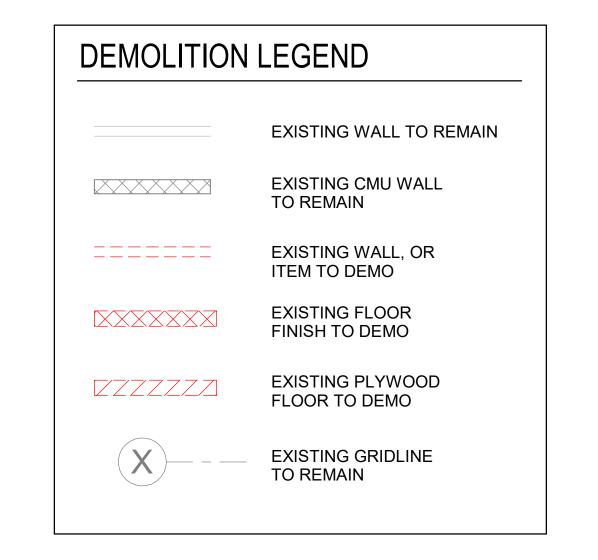
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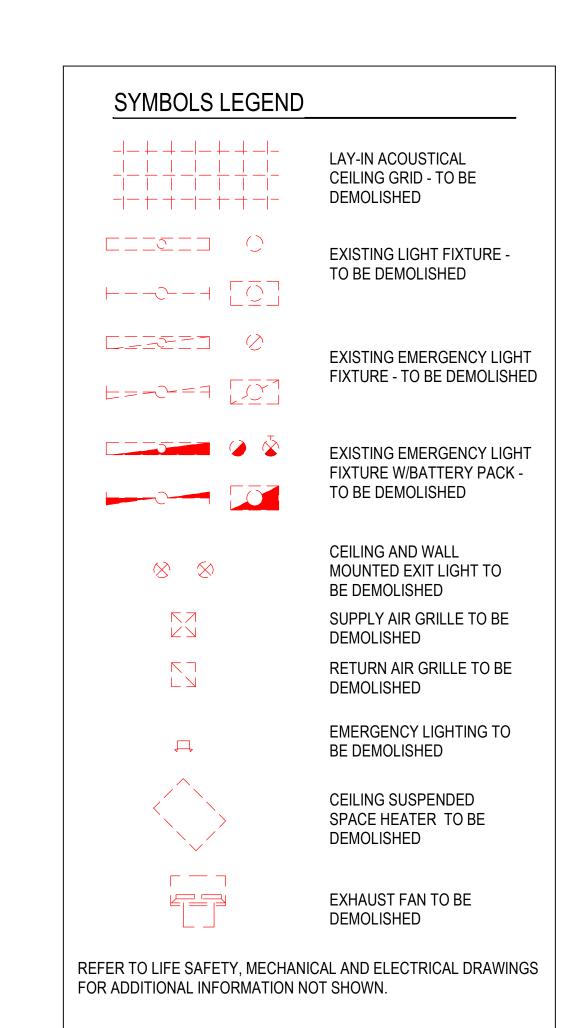
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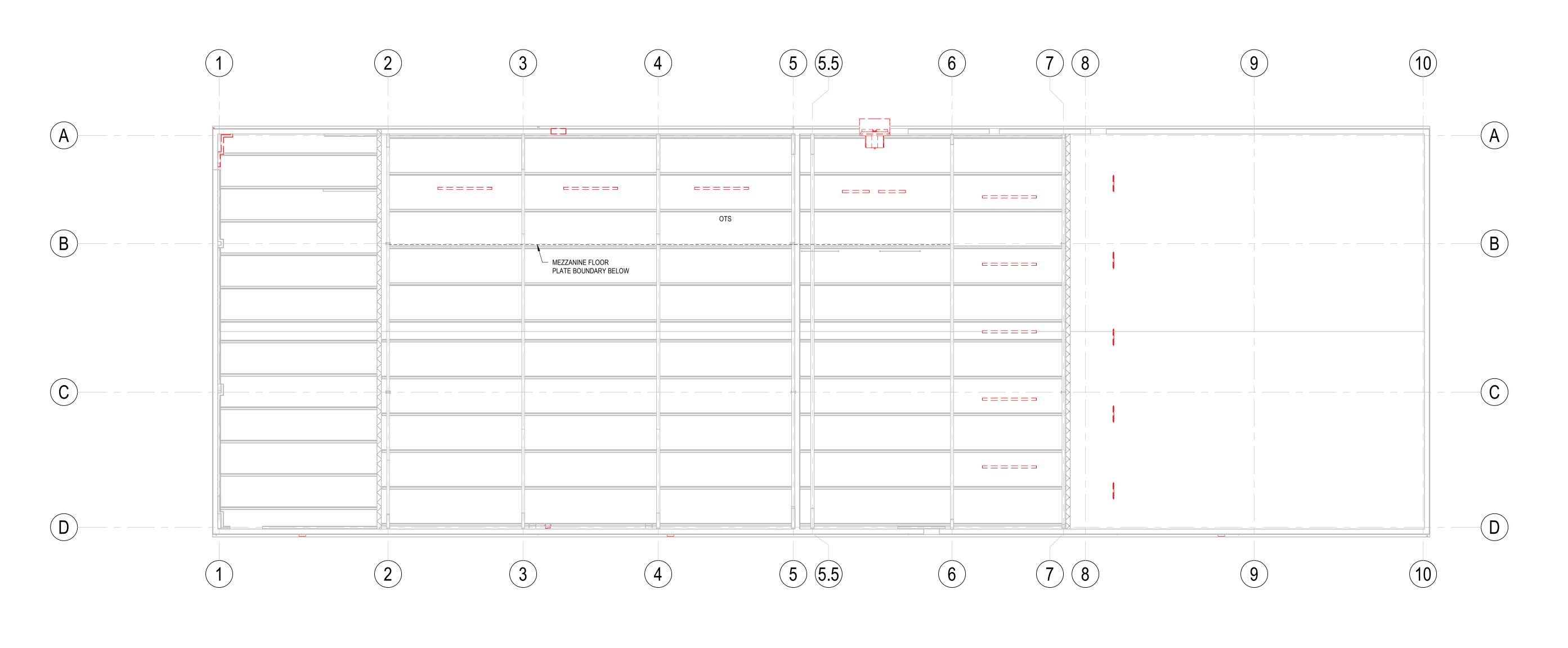
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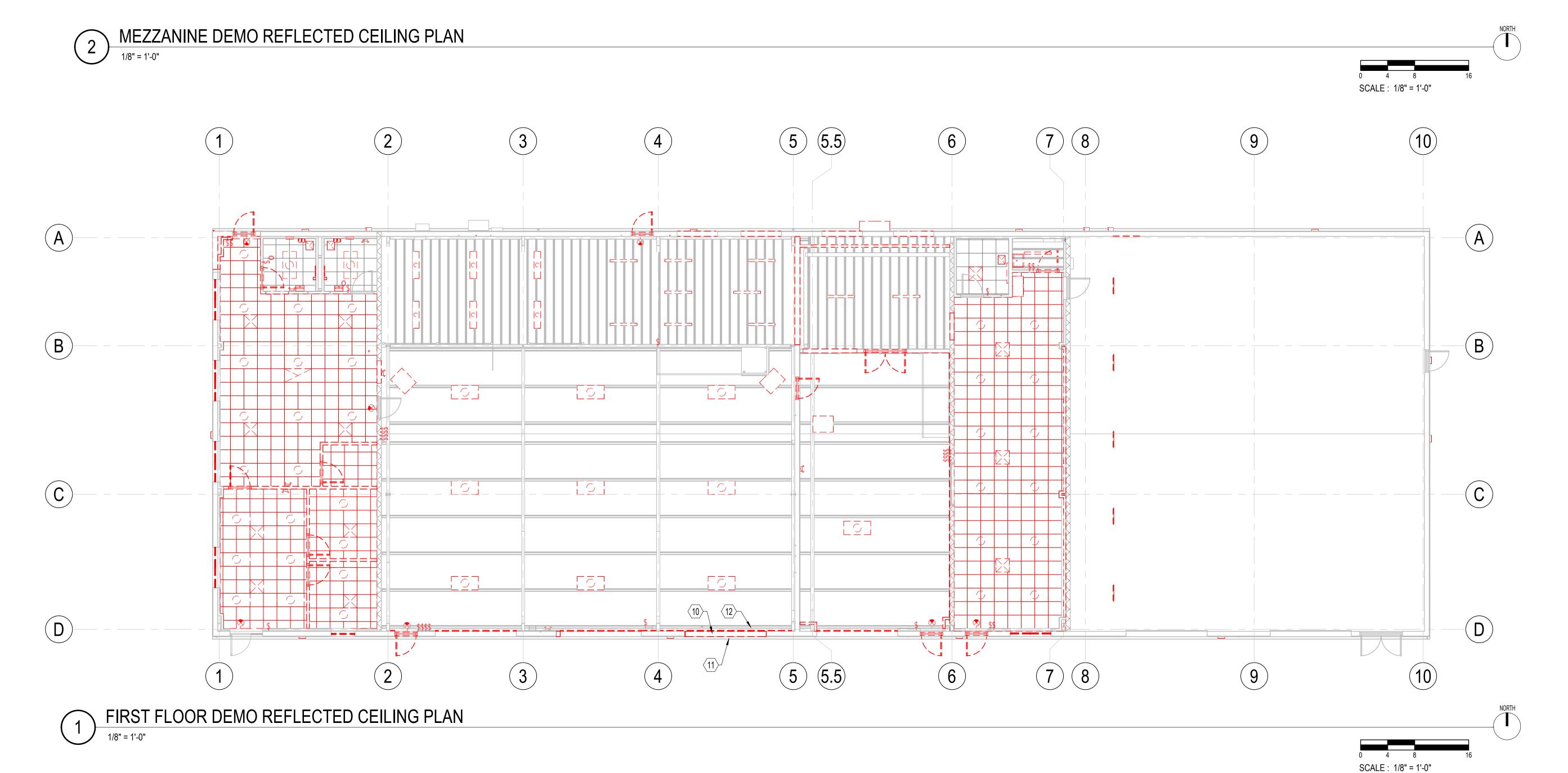
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7 8











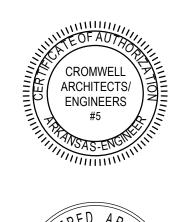
NWACC ITSTI BIKE LAB

ORTHWEST ARKANSAS COMMUNITY COLL
1201 S.E. EAGLE WAY

DENITORING A PKANSAS 27712

CONSTRUCTION DOCUMENTS				
Revi	Revisions —			
No.	Date	Description		

Design Phase ——





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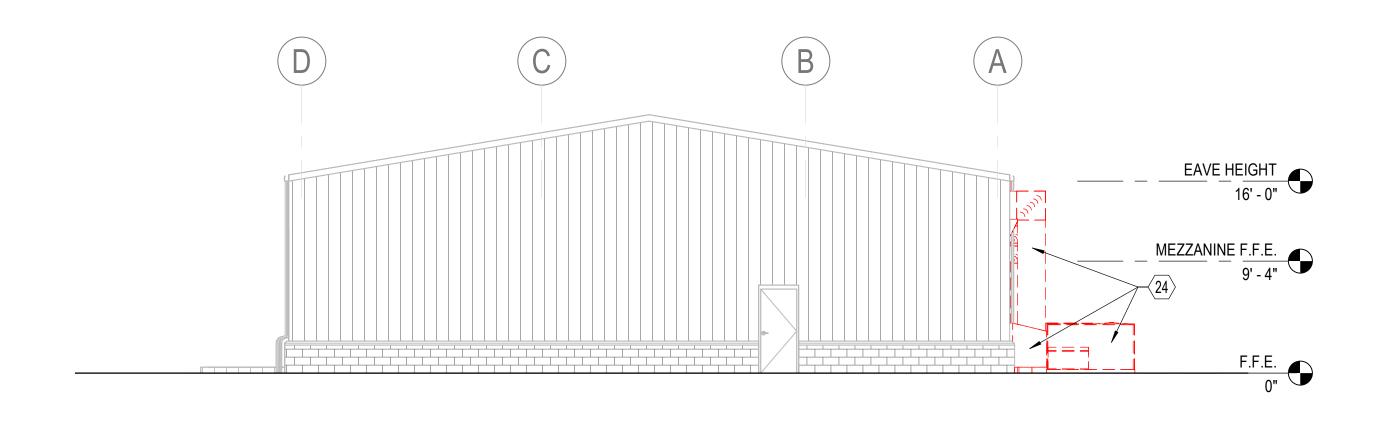
Issue Date 06-30-2023

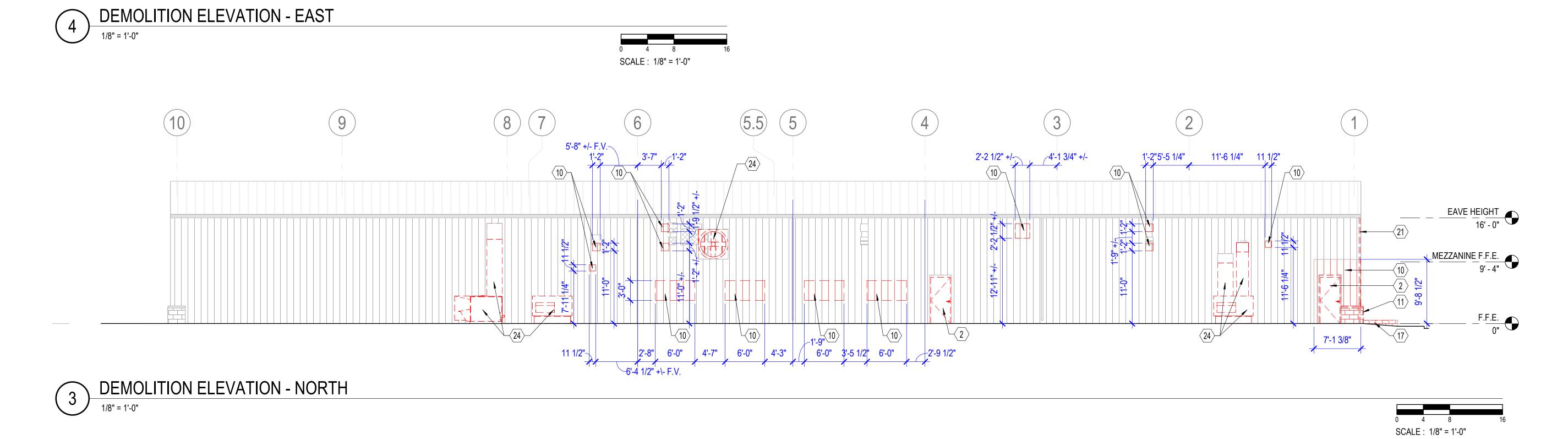
DEMOLITION REFLECTED
CEILING PLAN

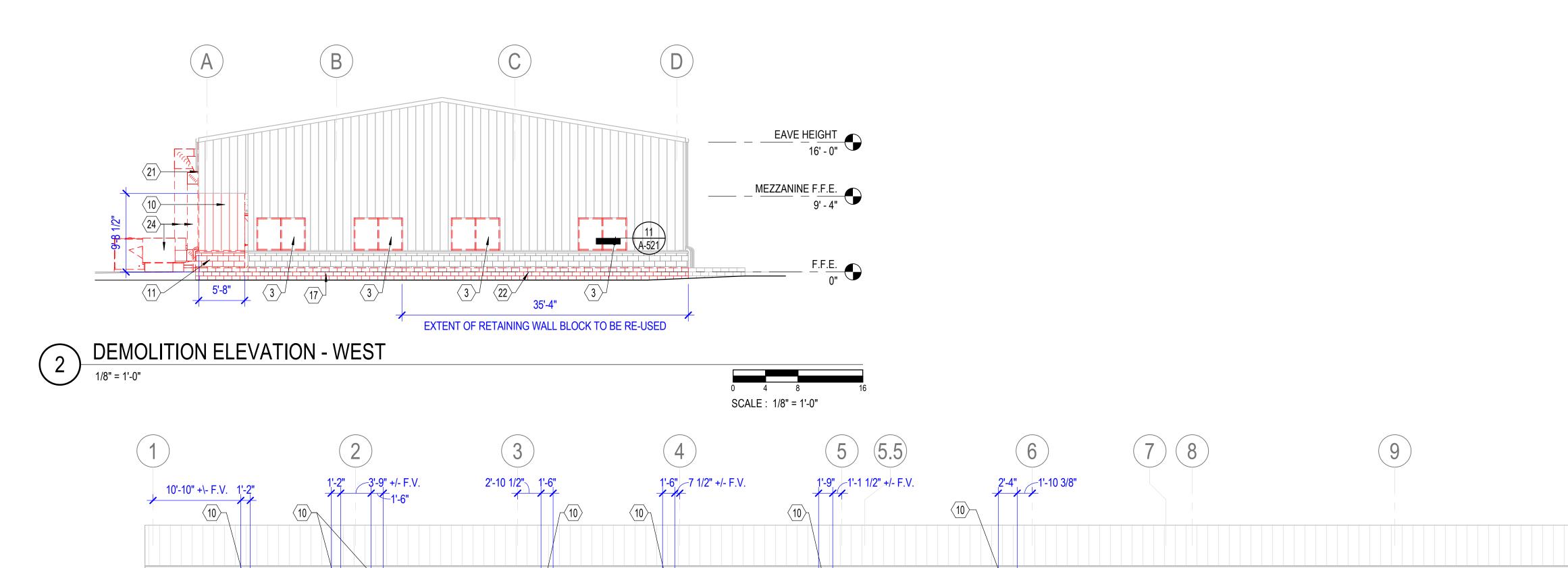
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Sheet Number —

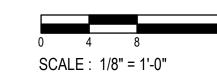
AD102R







DEMOLITION ELEVATION - SOUTH

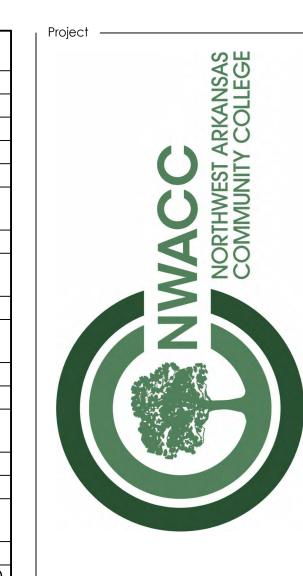


F.F.E.

_____ _ MEZZANINE F.F.E. 9' - 4"

	DEMOLITION KEY NOTES		
NUMBER	DESCRIPTION		
1	REMOVE SIN		
2	REMOVE H.M. DOOR(S) AND FRAME(S)		
3	REMOVE WINDOWS		
4	REMOVE H.M. DOOR AND FRAME. PROTECT FOR RE-USE AS NOTED ON SHEE A101		
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23	REMOVE PORTION OF INTERIOR METAL STUD WALL		
24	REMOVE MECHANICAL EQUIPMENT AND ASSOCIATED DUCTWORK (IF APPLICABLE). RE: DEMO MECHANICAL		

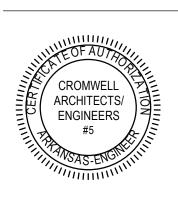
NOTE: NOT ALL OF THE KEYNOTES LISTED ABOVE ARE USED ON THIS SHEET



NWACC ITSTI BIKE LAB
ORTHWEST ARKANSAS COMMUNITY COLLEG
1201 S.E. EAGLE WAY

Design Phase ————————————————————————————————————
CONSTRUCTION
DOCUMENTS

No.	Date	Description							
Star	np ———								





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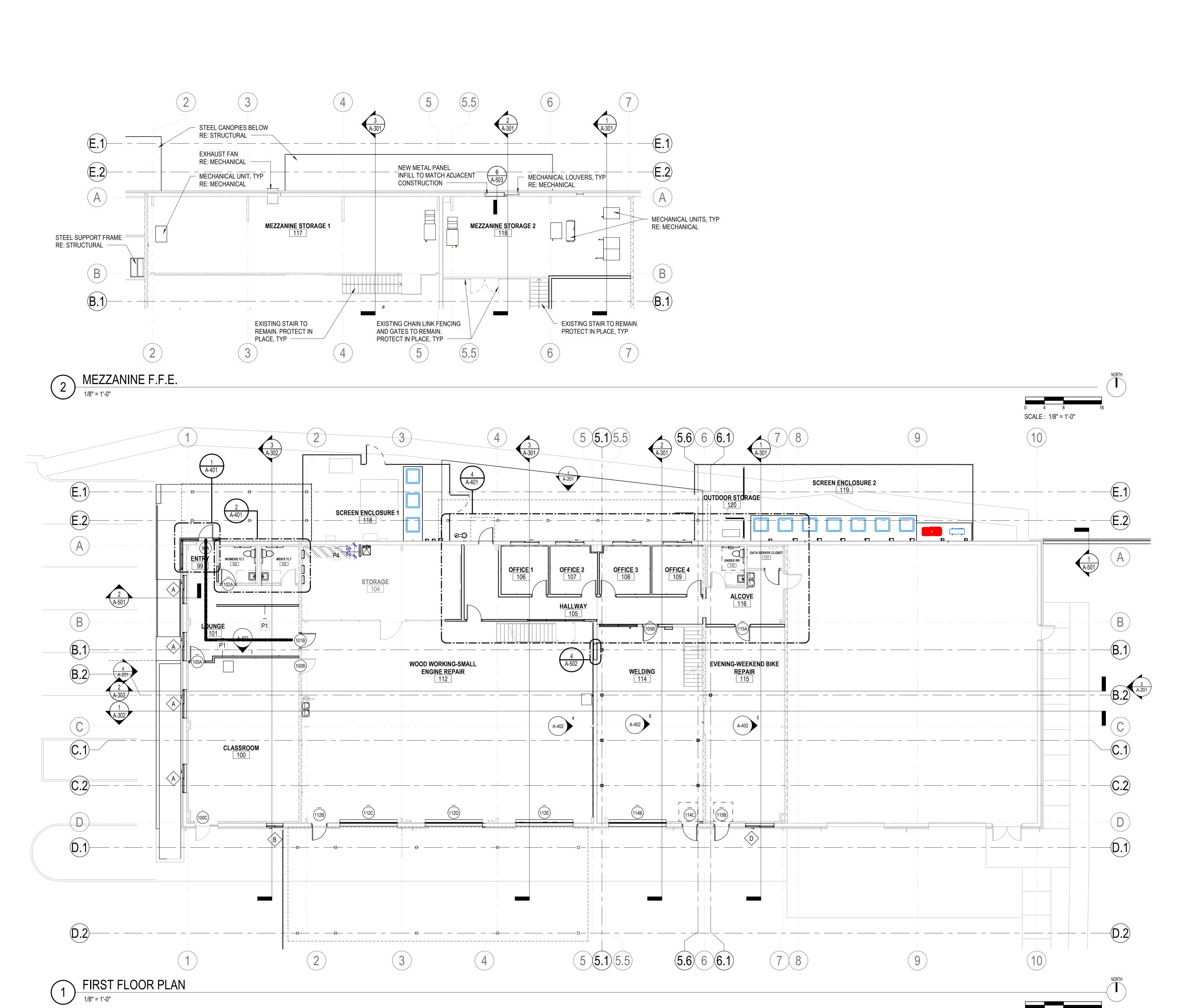
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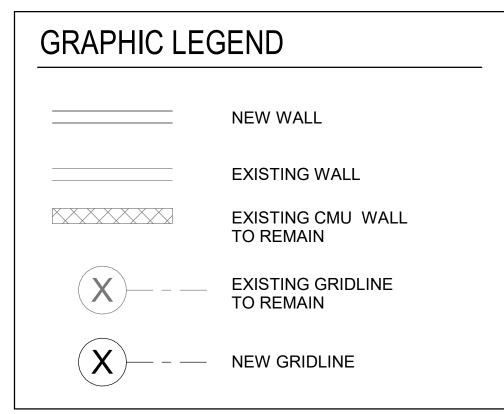
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Sheet Number ——

DEMOLITION ELEVATIONS

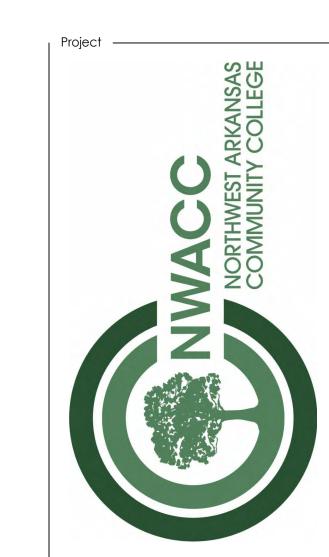
AD201





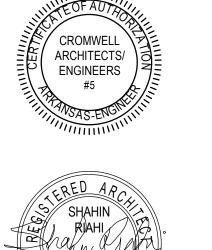
	PARTITION TYPES		
Type Mark	Description	Fire Rating	STC
P1	GYP. BD. ON 3-5/8" METAL STUD		
P2	GYP. BD. ON 3-5/8" METAL STUD		
P3	GYP. BD. ON 6" METAL STUD		
P4	GYP. BD. ON 3-5/8" METAL STUD		
P5	GYP. BD. ON 3-5/8" METAL STUD		
P6	GYP. BD. ON 6" METAL STUD		
P7	GYP. BD. ON 6" METAL STUD		

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



NORTHWEST ARKANSAS COMMUNITY COLLEG
1201 S.E. EAGLE WAY
BENTONVILLE, ARKANSAS 72712

CONSTRUCTION DOCUMENTS Revisions														
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No.	Date	Description												



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MWELL ARCHITECTS ENGINEERS, IN

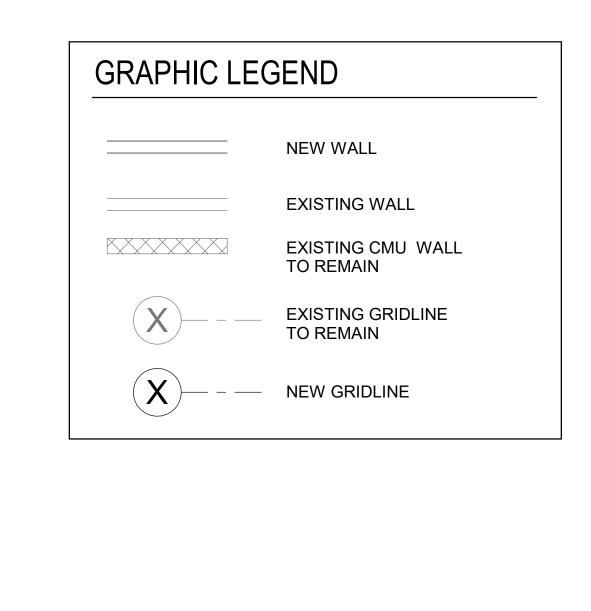
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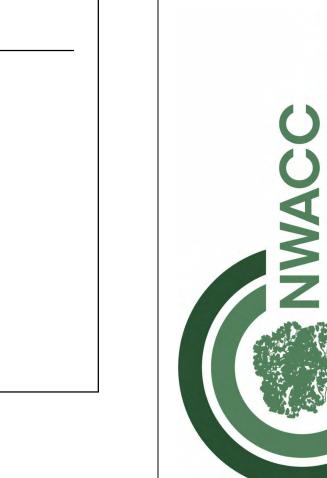
2023-049
Issue Date 06-30-2023

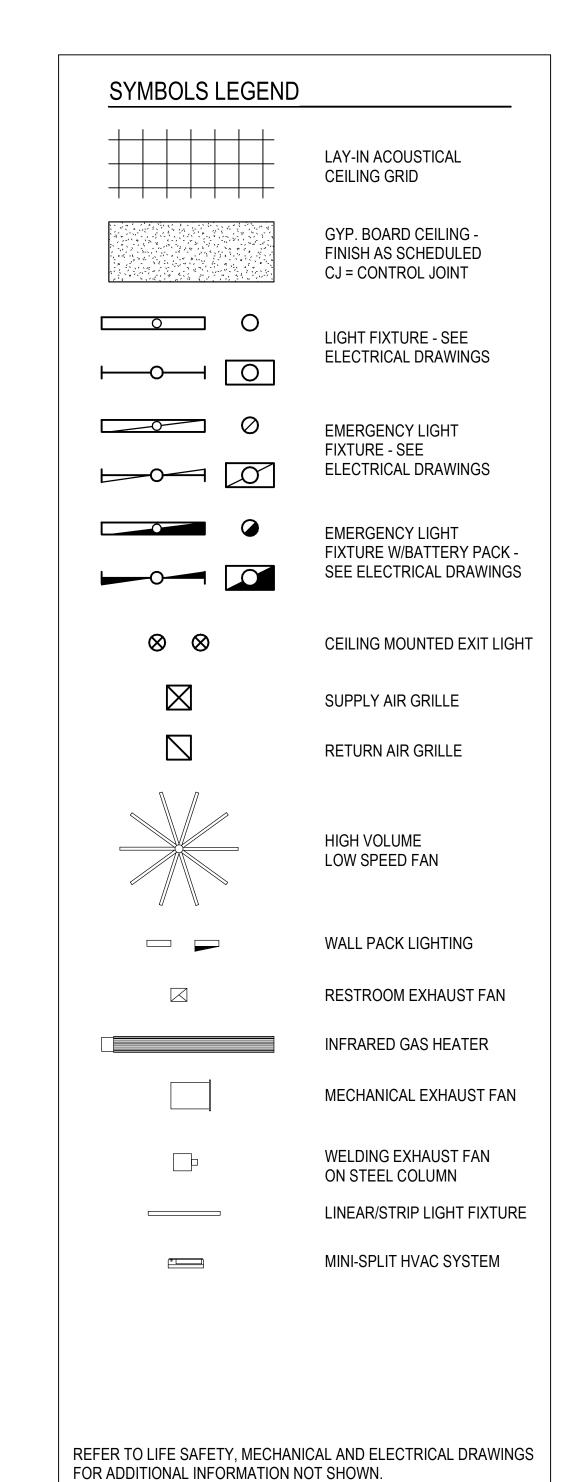
FLOOR PLANS

Sheet Title ———

Sheet Number ——

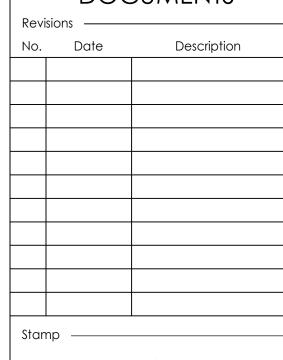


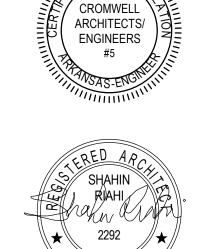




SCALE: 1/8" = 1'-0"







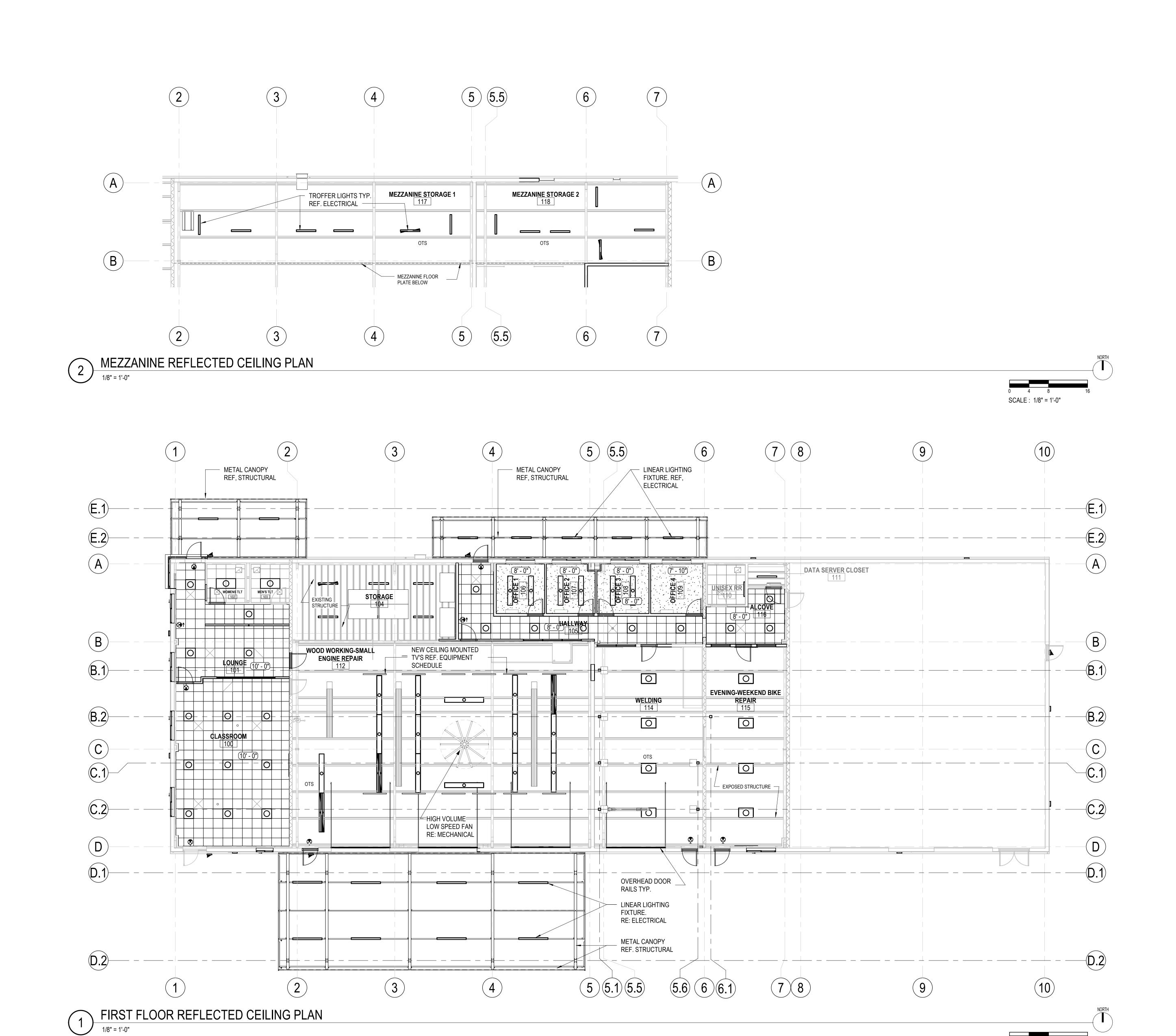


BLACK AND WHITE PRINTING. Project Number — 2023-049 Issue Date ——— 06-30-2023

Sheet Title ——— REFLECTED CEILING

Sheet Number ——

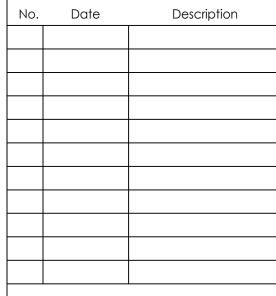
PLANS

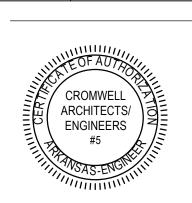




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Project Number 2023-049
Issue Date 06-30-2023

Sheet Title ———

Sheet Number ——

STAINLESS STEEL PLATE FRAME SURROUND

AT STOREFRONT SYSTEM

NEW STOREFRONT SYSTEM.

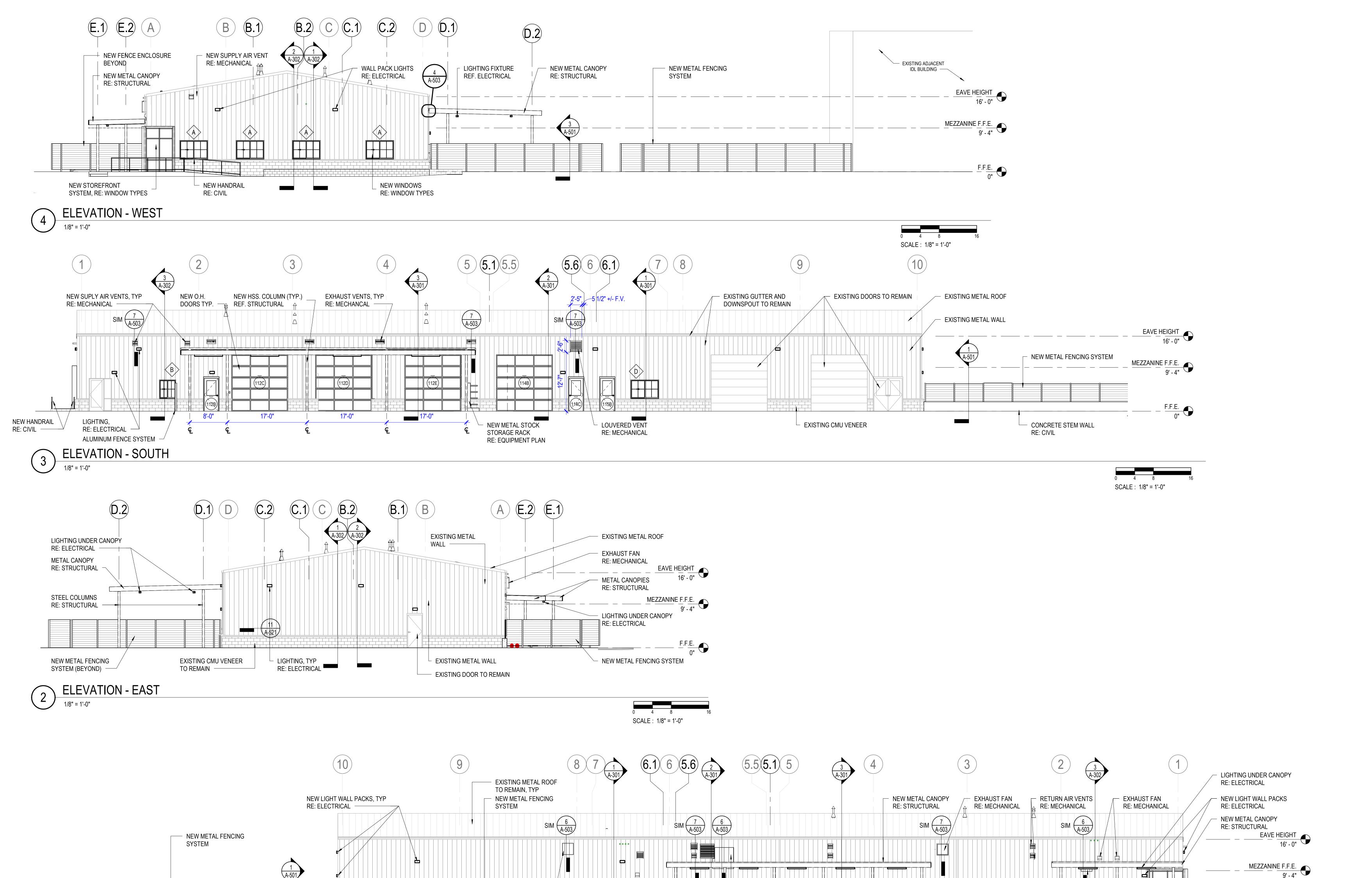
RE: FRAME TYPES

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

NEW HANDRAIL
RE: CIVIL

EXTERIOR ELEVATIONS

A-201



INFILL OPENING WHERE EXHAUST FAN WAS REMOVED

INFILL OPENING WHERE DUCTWORK WAS REMOVED

NEW CONCRETE STEM WALL

RE: CIVIL

ELEVATION - NORTH

EXISTING METAL WALL

TO REMAIN, TYP ----

C

NEW WINDOWS

REF. A-520

(c)

CARD READER

RE: ELECTRICAL

WATER FOUNTAIN.

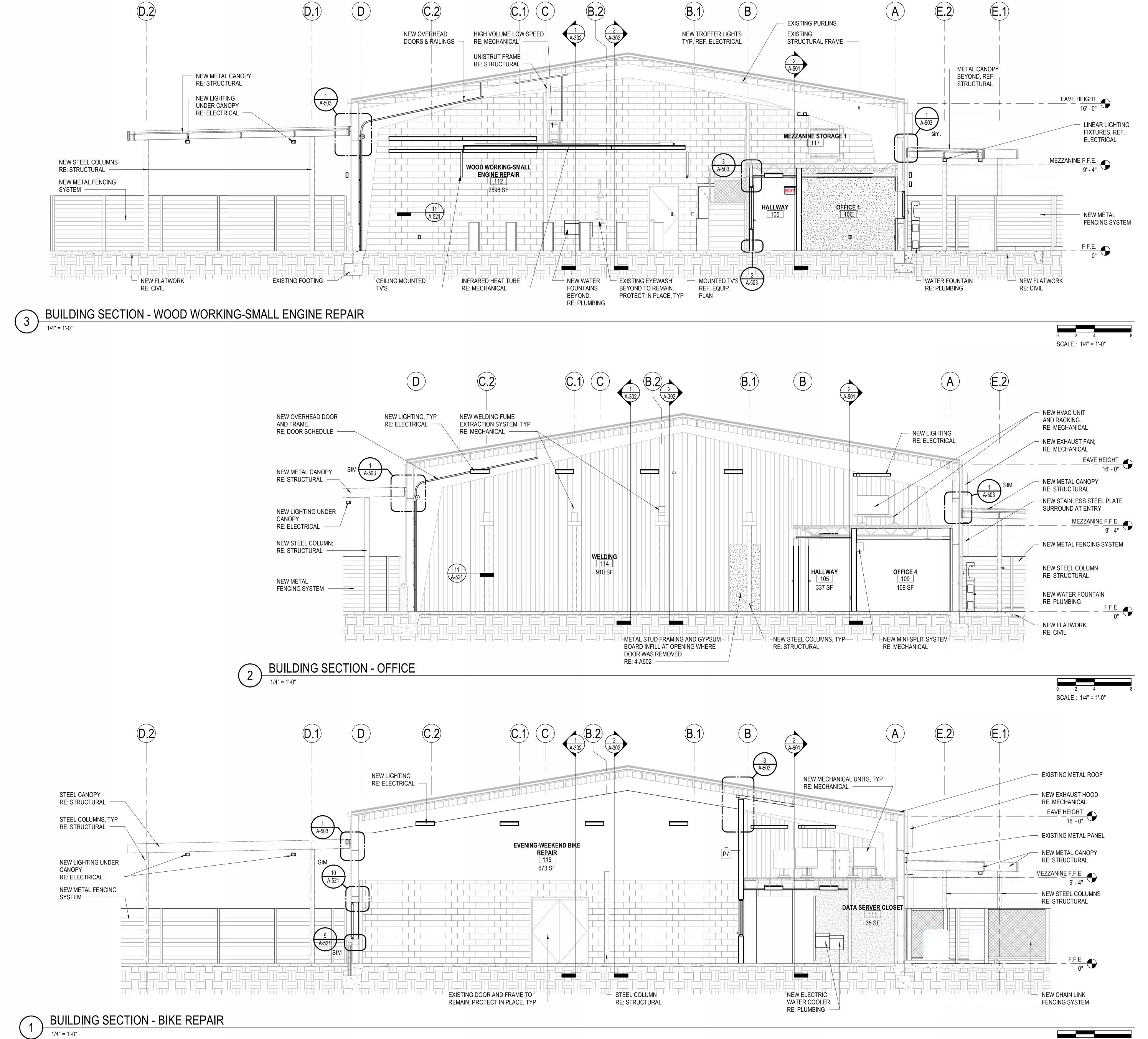
WALL PACK LIGHTING

RE: PLUMBING

RE: ELECTRICAL

INFILL OPENING WHERE

EXHAUST FAN WAS REMOVED —



CROMWELL

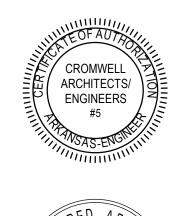
1300 East 6th Street Little Rock, AR 72202 cromwell.com

NWACC NORTHWEST ARKANSAS COMMUNITY COLLEGE

NWACC ITSTI BIKE LAB
RTHWEST ARKANSAS COMMUNITY COLLE
1201 S.E. EAGLE WAY
BENTONVILLE, ARKANSAS 72712

9

No. Date Description





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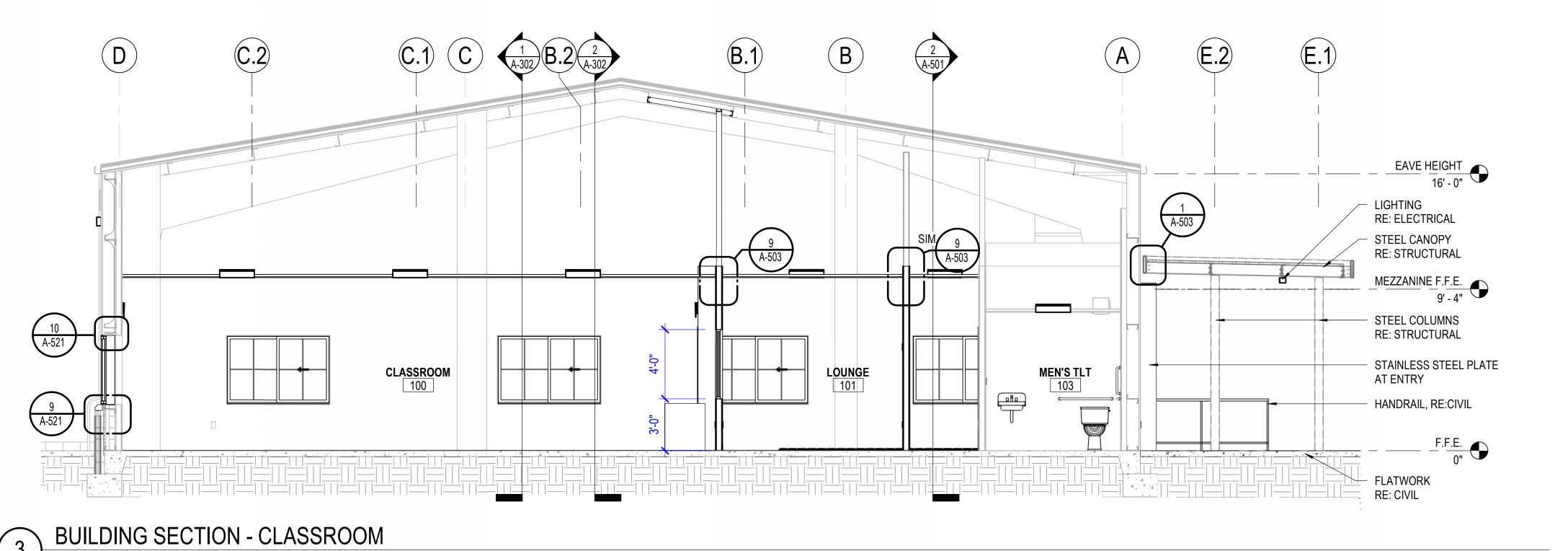
Issue Date 06-30-2023

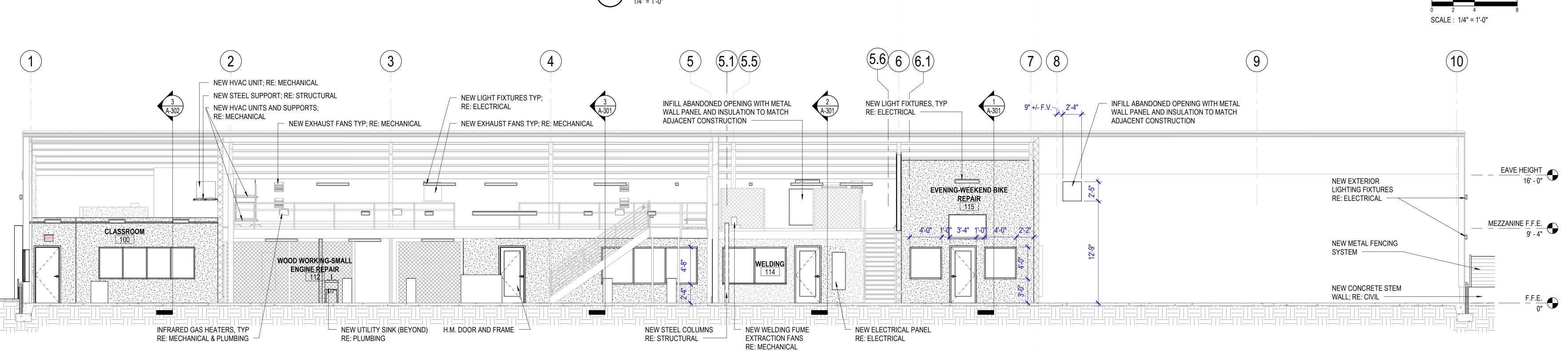
Sheet Title ——

Sheet Number —

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

BUILDING SECTIONS

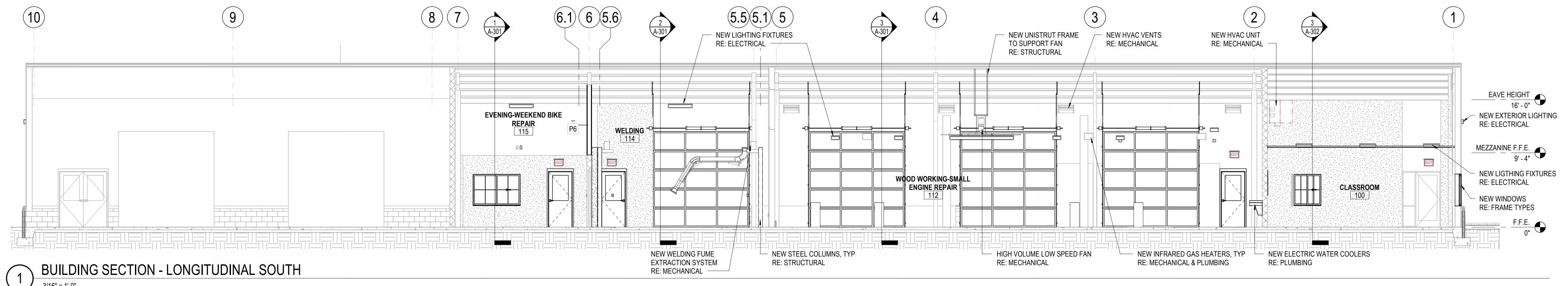




BUILDING SECTION - LONGITUDINAL NORTH

3/16" = 1'-0"

0 2 4 SCALE: 1/4" = 1'-0"



0 2 4 8 SCALE: 1/4" = 1'-0"



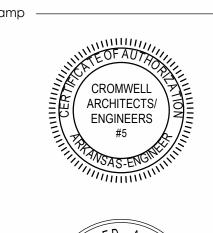
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NORTHWEST ARKANSAS COMMUNITY COLLEG
1201 S.E. EAGLE WAY

construction documents

Description

0.1		
Star	np ———	

Date





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2023-049

Issue Date

06-30-2023

Sheet Title

BUILDING SECTIONS

Sheet Number —

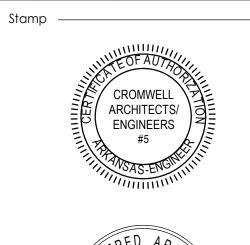


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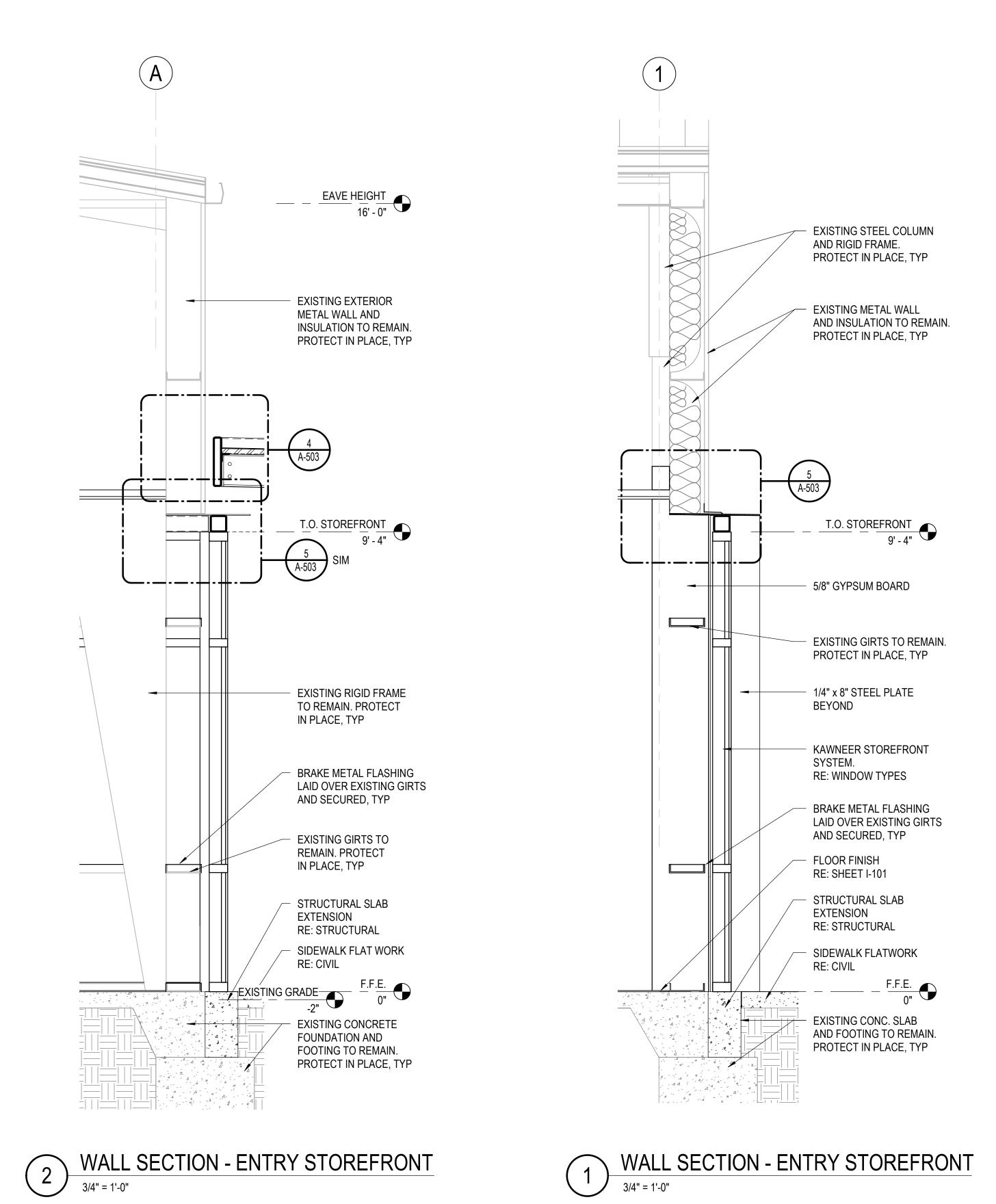
Issue Date

06-30-2023

Sheet Title

ENTRY WALL SECTIONS

Sheet Number ——

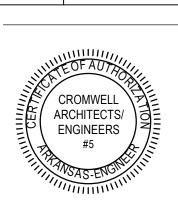




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1201 S.E. EAGLE WAY

Revisions

No. Date Description





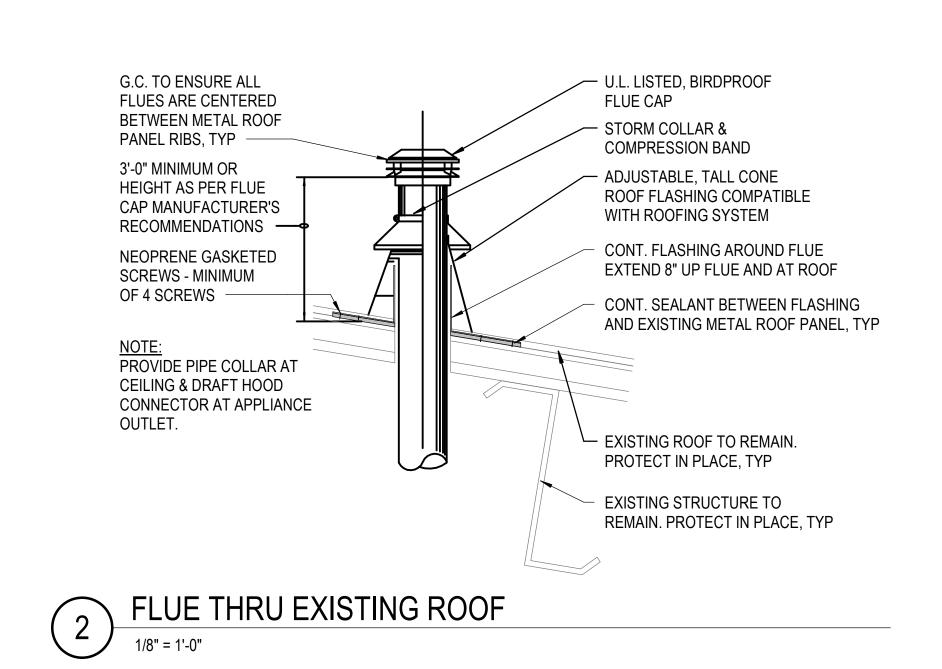
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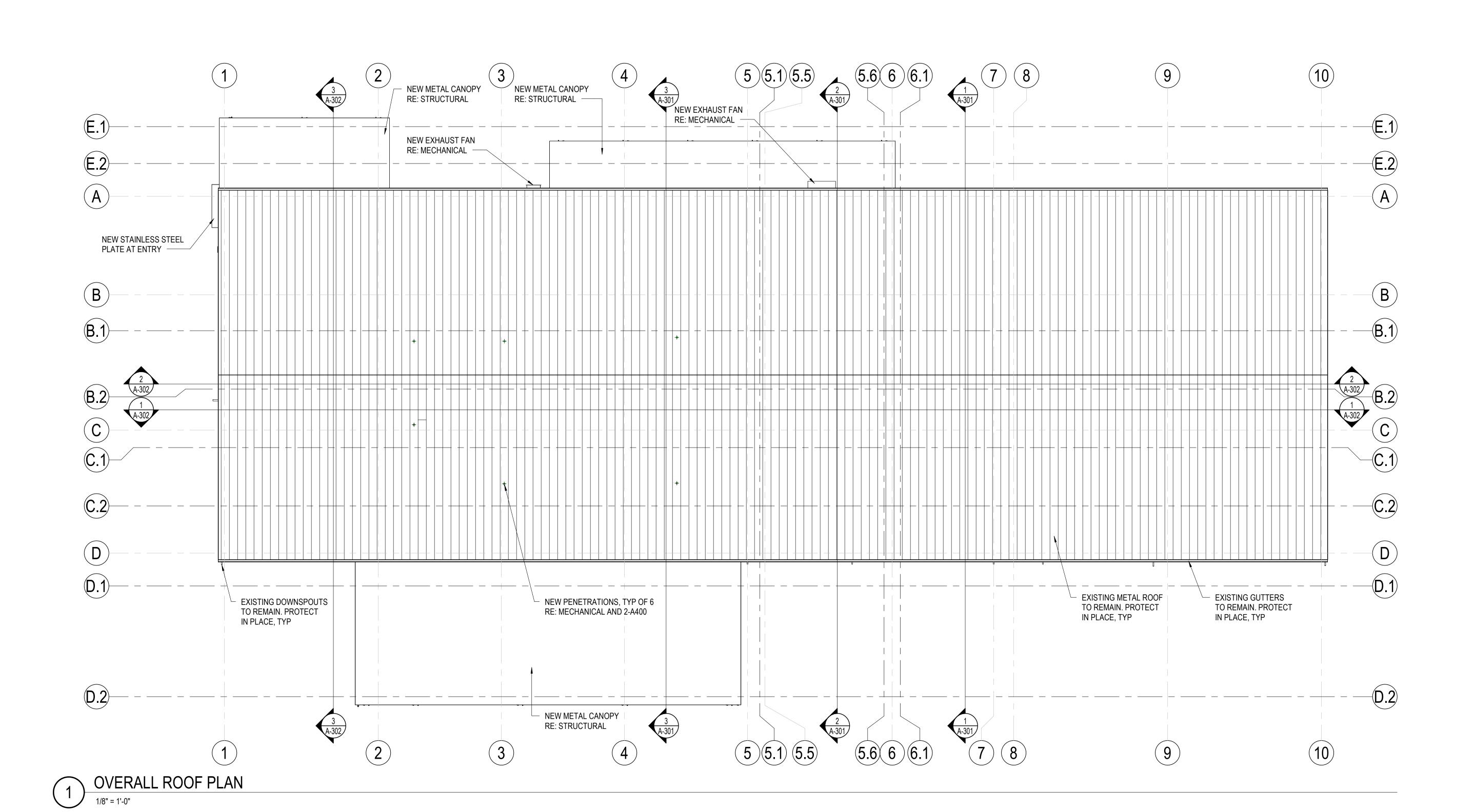
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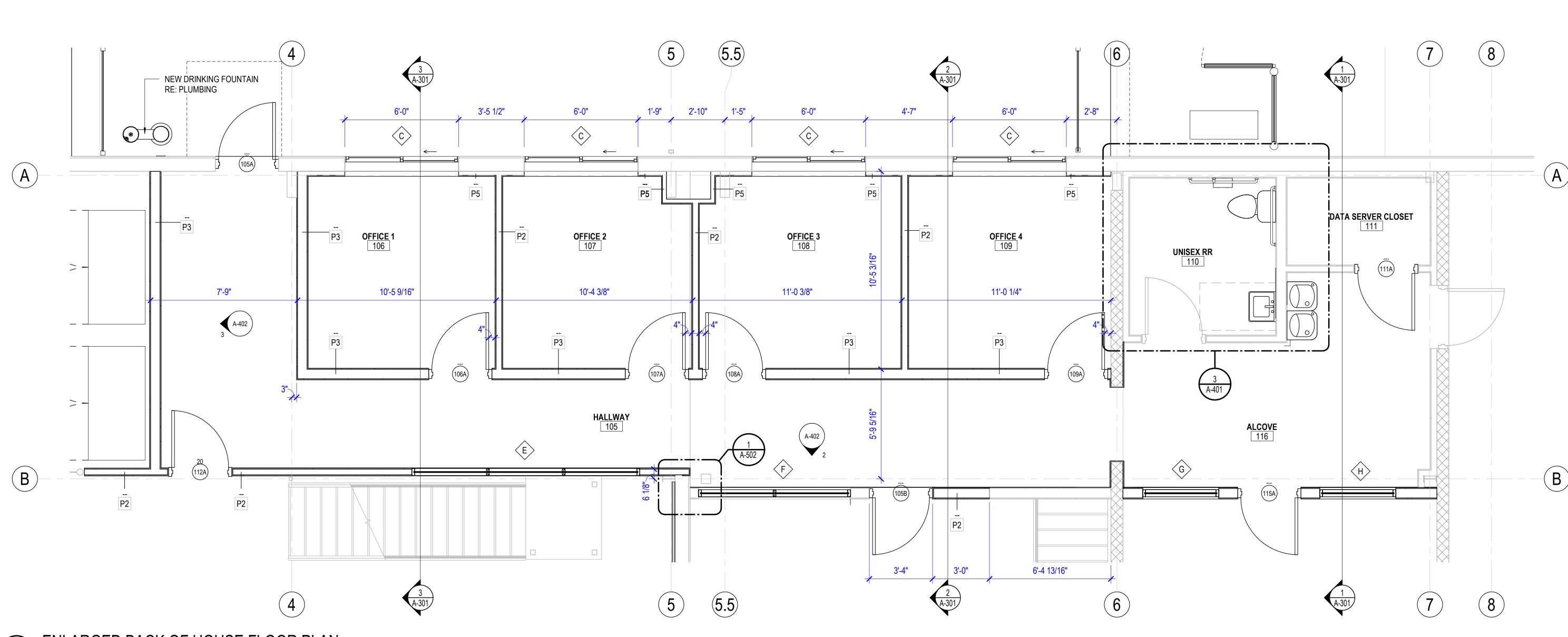
Project Number 2023-04
Issue Date

06-30-2023eet Title

OVERALL ROOF PLAN
AND DETAILS



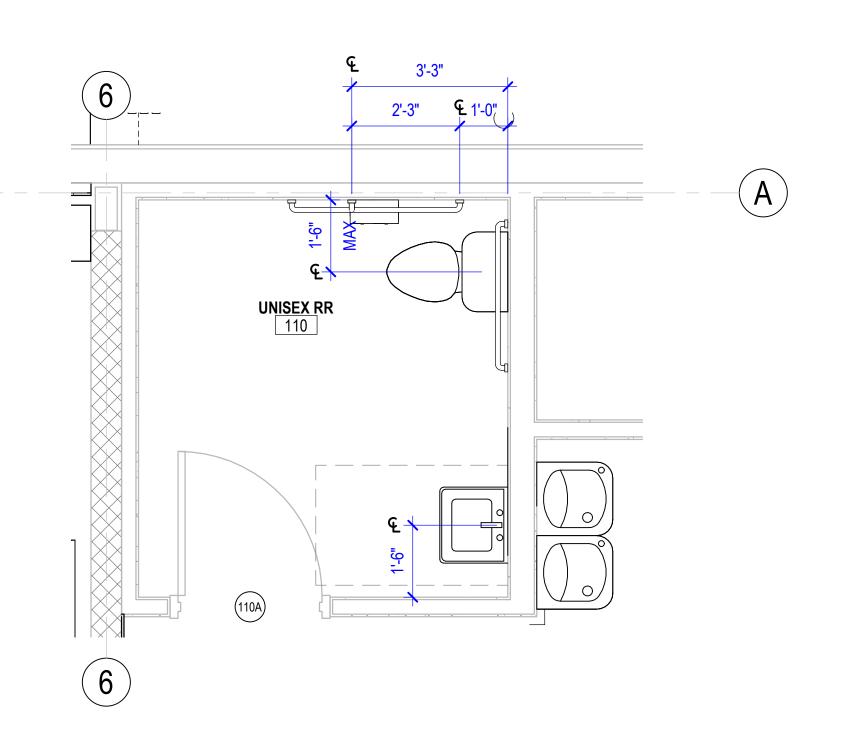




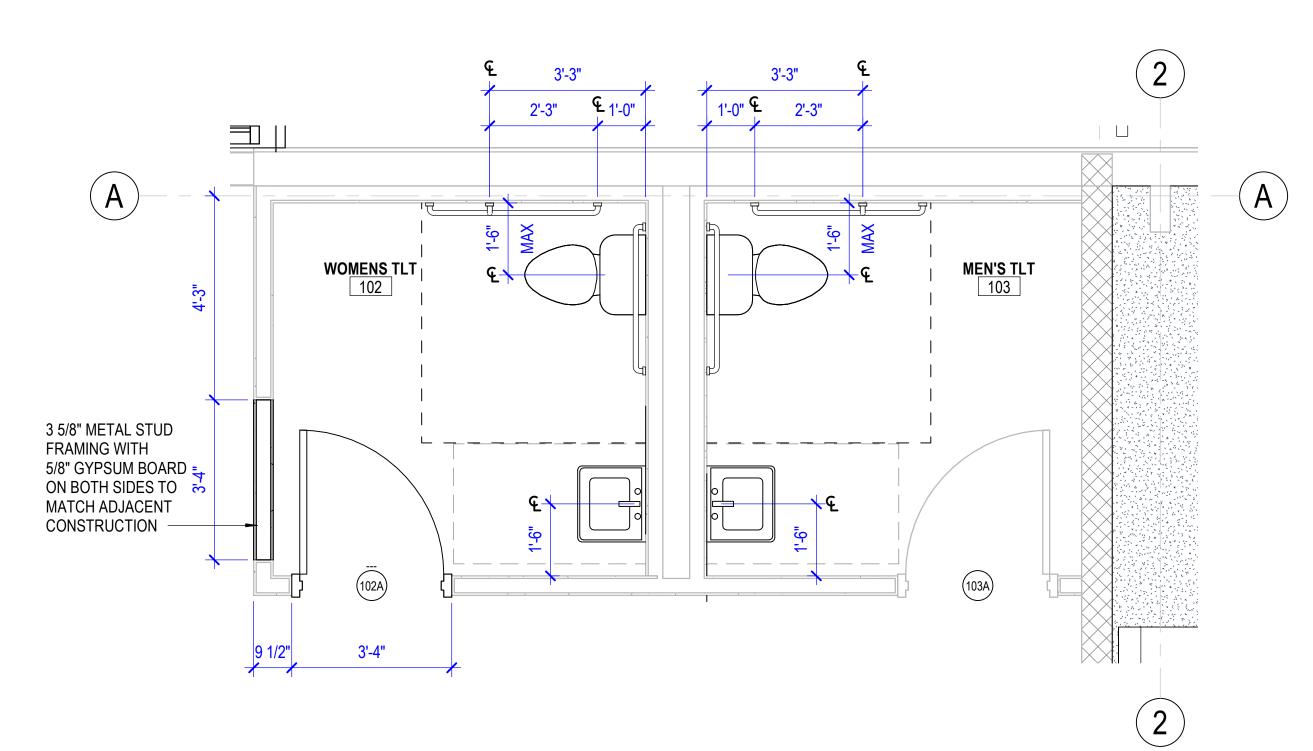
GRAPHIC L	EGEND
	NEW WALL
	EXISTING WALL
	EXISTING CMU WALL TO REMAIN
X	EXISTING GRIDLINE TO REMAIN
X	— NEW GRIDLINE

PARTITION TYPES											
Type Mark	Description	Fire Rating	STC								
P1	GYP. BD. ON 3-5/8" METAL STUD										
P2	GYP. BD. ON 3-5/8" METAL STUD										
P3	GYP. BD. ON 6" METAL STUD										
P4	GYP. BD. ON 3-5/8" METAL STUD										
P5	GYP. BD. ON 3-5/8" METAL STUD										
P6	GYP. BD. ON 6" METAL STUD										
P7	GYP. BD. ON 6" METAL STUD										

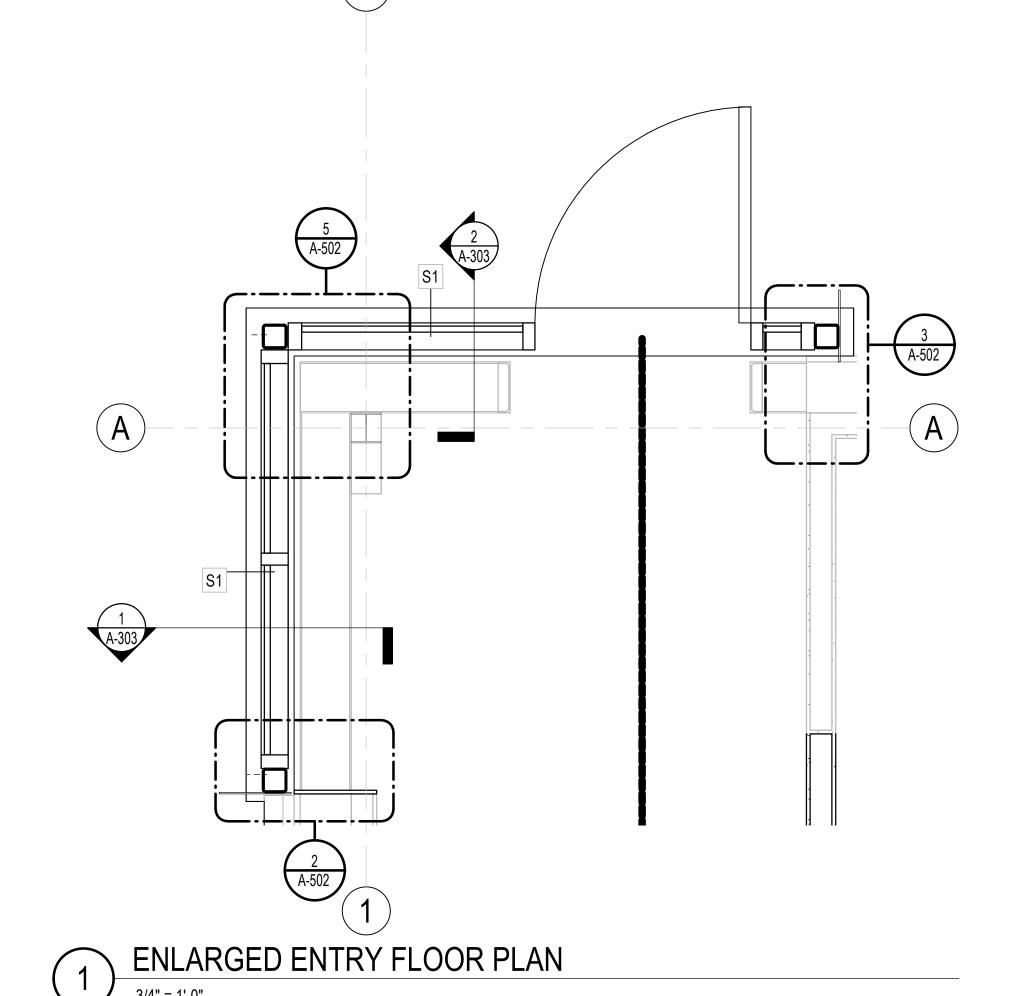
ENLARGED BACK OF HOUSE FLOOR PLAN

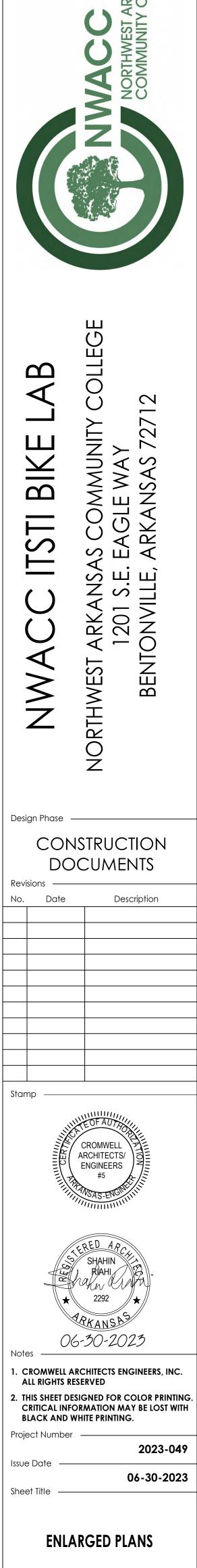


ENLARGED RESTROOM FLOOR PLAN @ HALLWAY



2 ENLARGED RESTROOM FLOOR PLAN @ LOUNGE





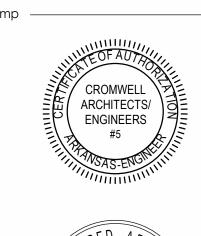
Sheet Number —



BIKE A X Z NORTHWEST

CONSTRUCTION

DOCUMENTS Description No. Date





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PAINTED DOOR

CG-1

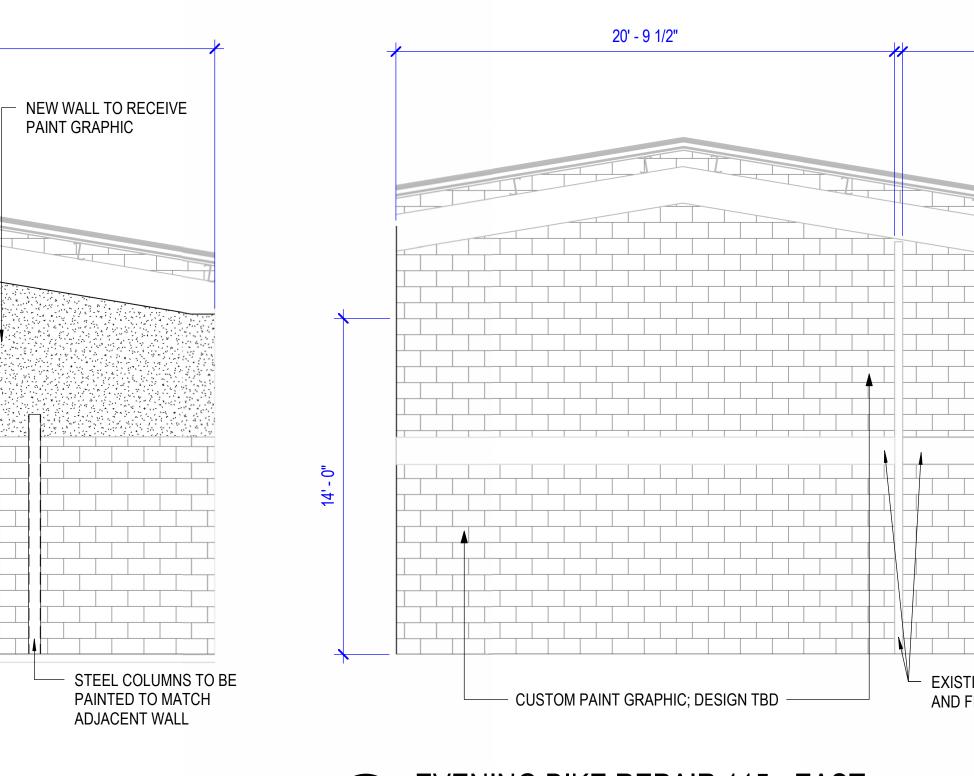
AND FRAME.

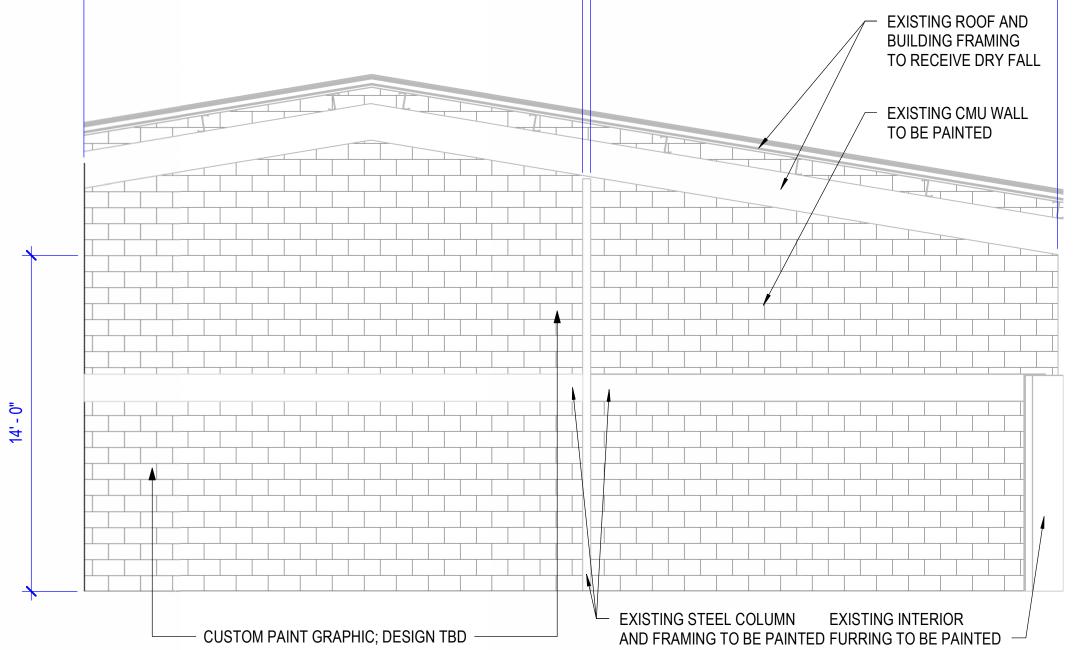
Project Number -2023-049 Issue Date ——— 06-30-2023

Sheet Title ———

INTERIOR ELEVATIONS

Sheet Number ——



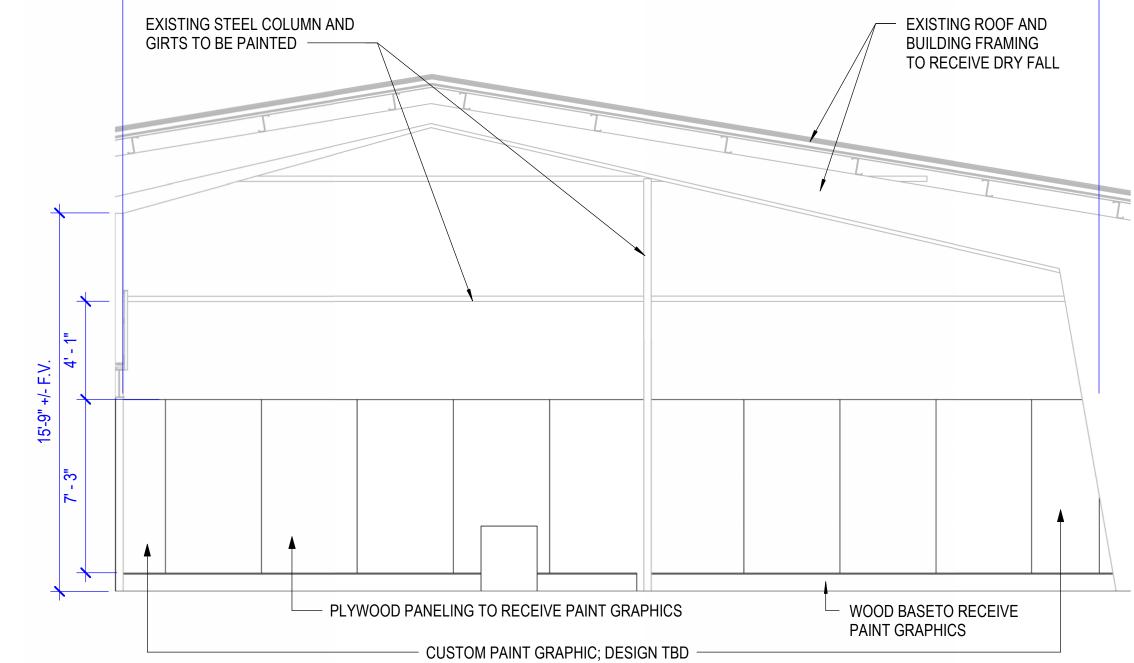


19' - 5 1/2"

27' - 11"

12' - 0"

- EXISTING STEEL COLUM TO BE PAINTED. MATCH ADJACENT WALL FINISH



40' - 8"

6 WELDING 114 - EAST

1/4" = 1'-0"

EXISTING METAL STAIR TO REMAIN. NO SCOPE OF WORK

5 EVENING BIKE REPAIR 115 - EAST

PAINTED GYPSUM BOARD

WOOD WORKING 112 - EAST

1/4" = 1'-0"

 PAINTED GYPSUM BOARD PAINTED DOOR AND FRAME. MATCH ADJACENT COLOR

WFG -----RB-1 -

23' - 2 1/2"

PAINTED GYPSUM BOARD

12' - 0"

LOUNGE 101 - SOUTH

15' - 7 1/2" LAY-IN CEILING AS NOTED ON SHEET A-101R NEW 6" METAL STUD WALL WITH 5/8" GYP. BD. BOTH SIDES

40' - 9 1/2"

- EXISTING DOOR AND FRAME TO RECEIVE PAINT GRAPHIC

CUSTOM PAINT GRAPHIC; DESIGN TBD

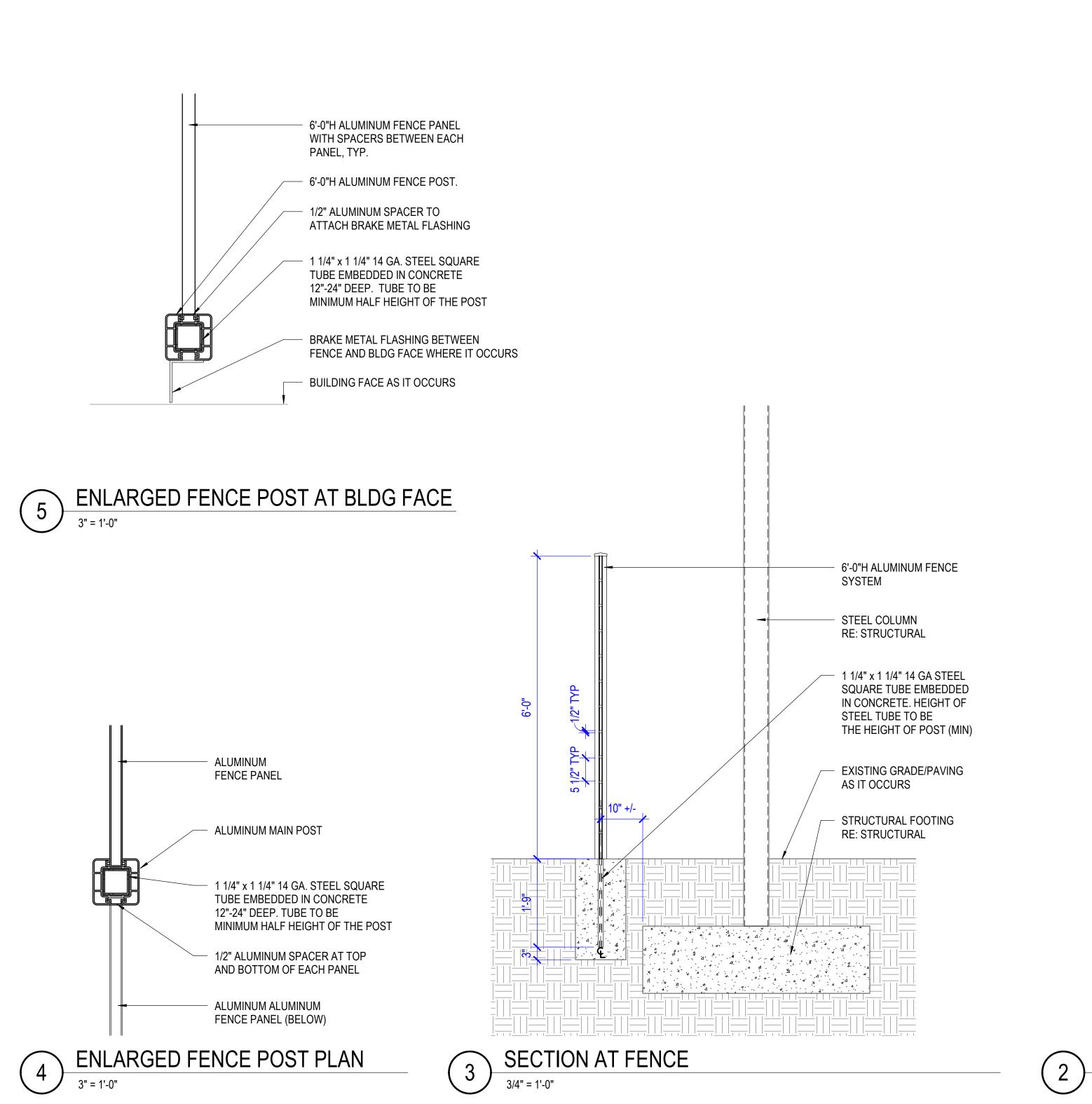
- EXISTING ROOF AND BUILDING STRUCTURE

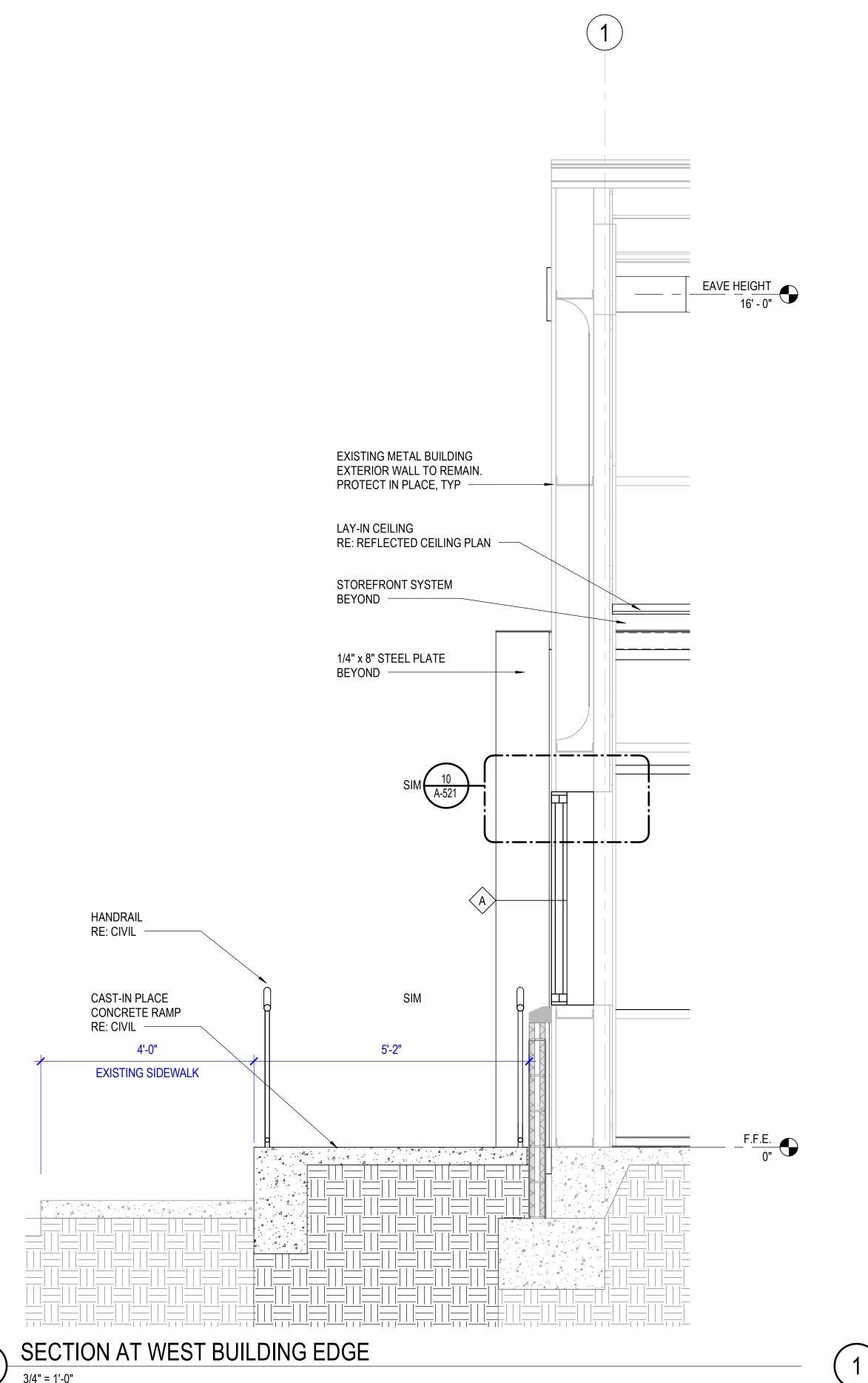
TO RECEIVE DRY FALL

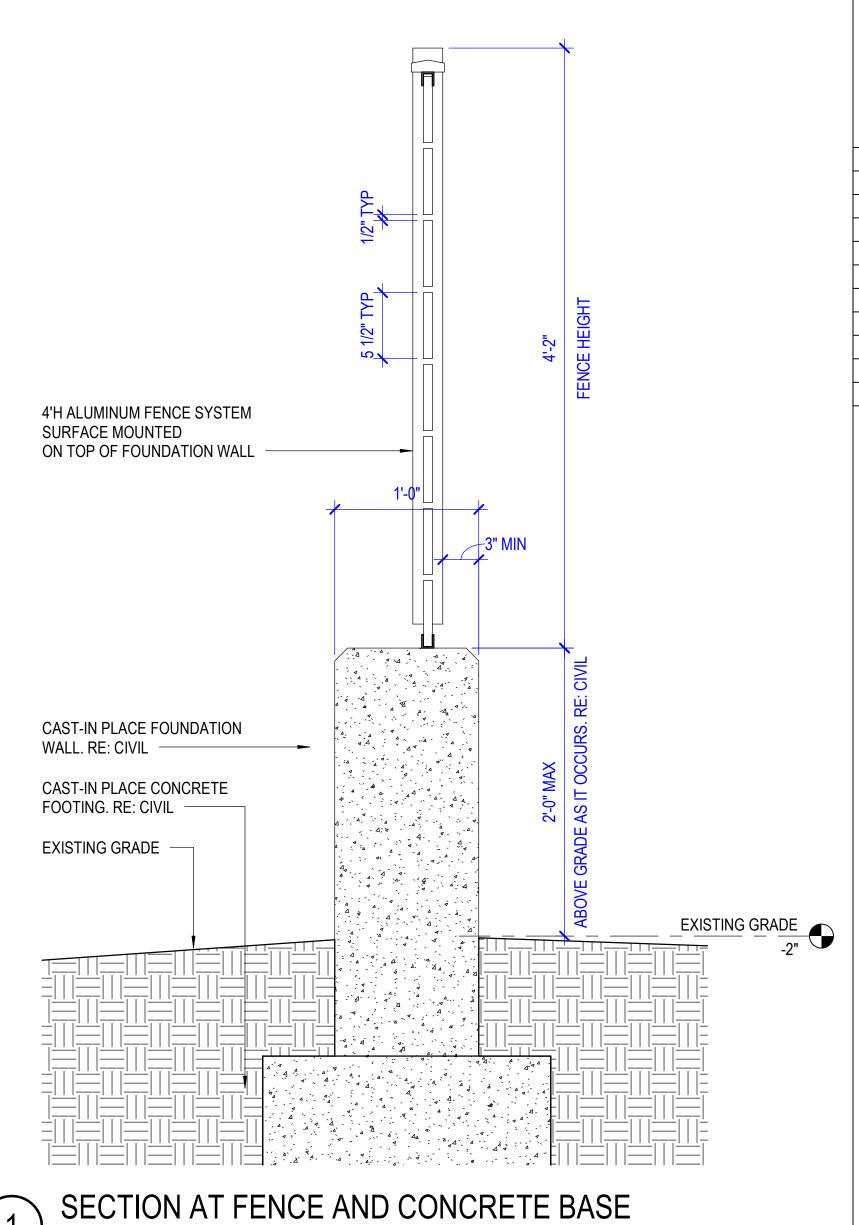
 □ PAINTED GYPSUM □ PAINTED GYPSUM BOARD

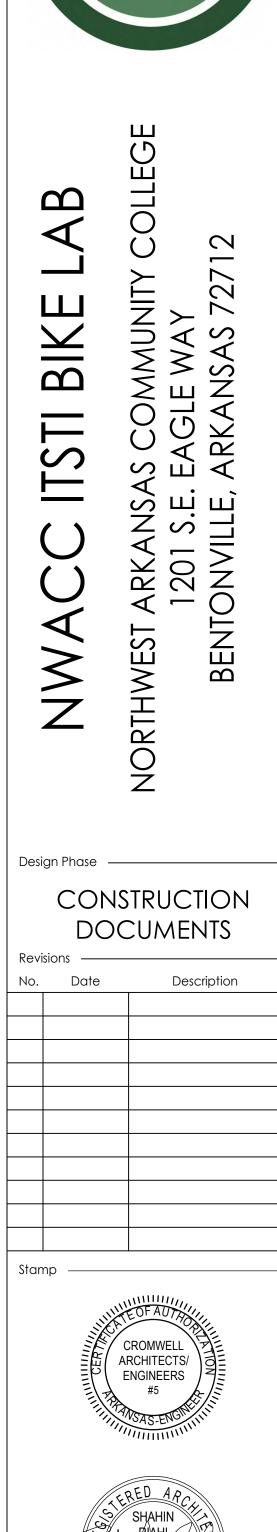
3 HALLWAY 105 - WEST
1/4" = 1'-0"

HALLWAY 105 - SOUTH









06-30-2023

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SITE DETAILS

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Issue Date ——

Sheet Title ——

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2023-049

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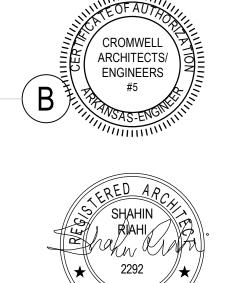
Design Phase — CONSTRUCTION DOCUMENTS

Description

Date

RTH

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PLAN DETAILS

Sheet Number —

STEEL COLUMN RE: STRUCTURAL **ALUMINUM BRAKE** STOREFRONT SYSTEM METAL AT OUTSIDE CORNER RE: WINDOW TYPES STOREFRONT SYSTEM **EXISTING GIRTS TO** RE: WINDOW TYPES REMAIN. PROTECT IN PLACE, TYP EXISTING PEMB RIGID FRAME. PROTECT IN PLACE, TYP

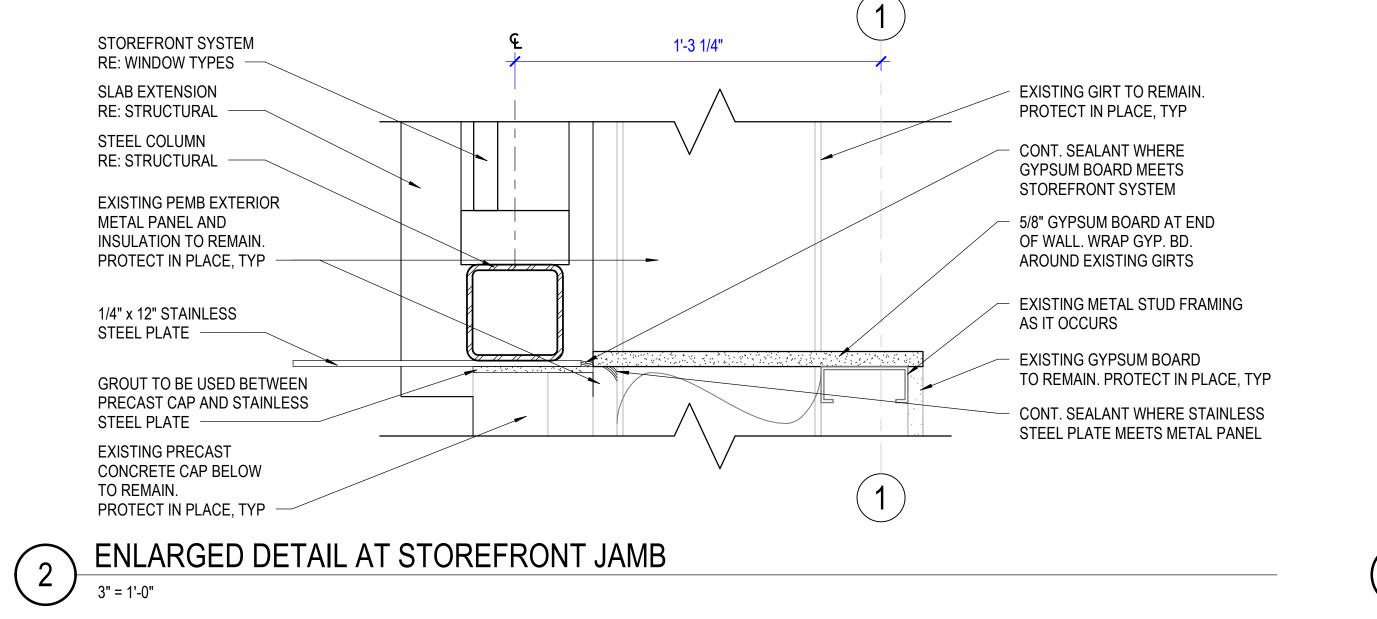
PLAN DETAIL - STOREFRONT CORNER AT EXISTING STRUCTURE

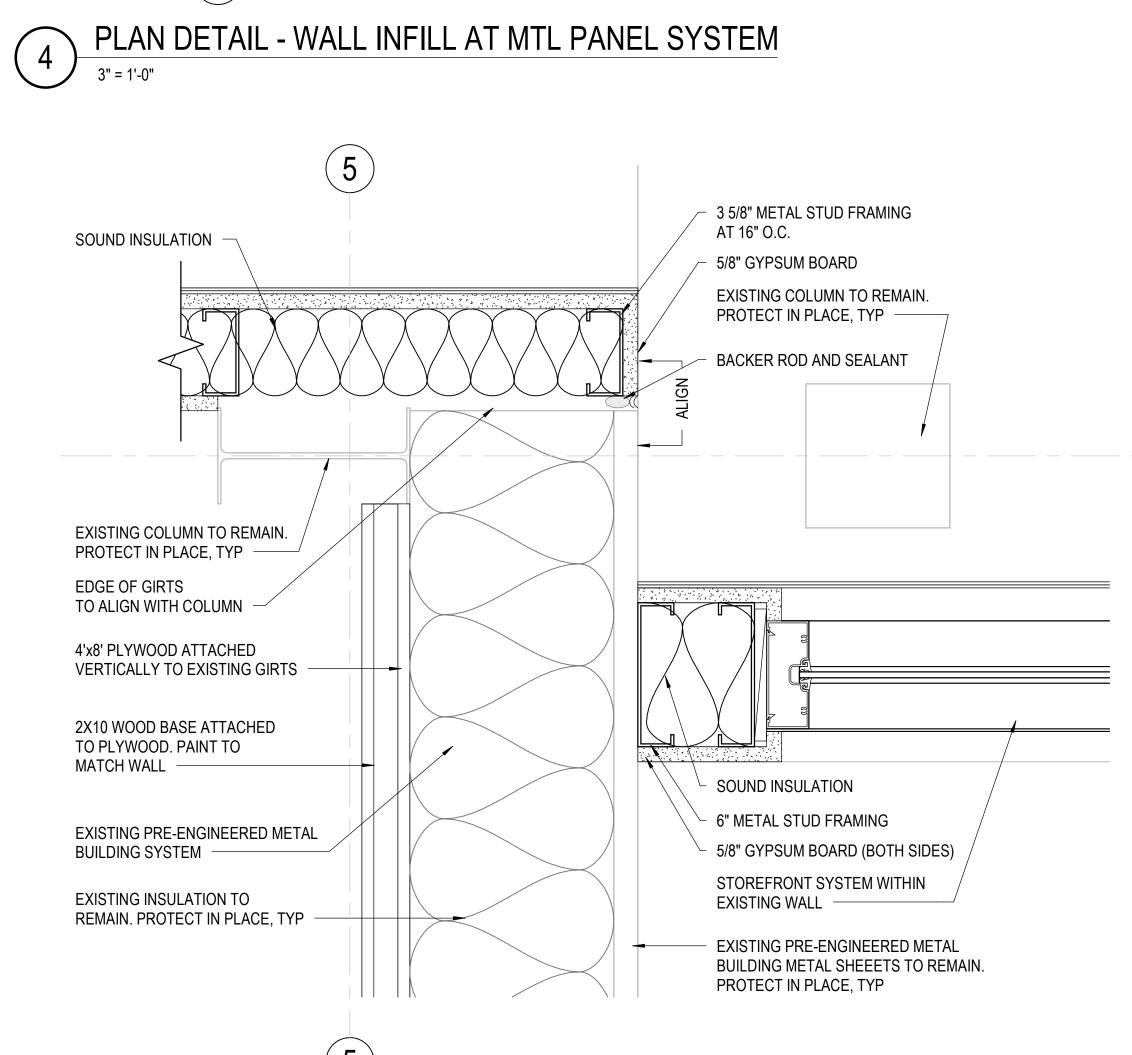
RE: STRUCTURAL PLATE 5/8" GYPSUM BOARD AT END OF WALL. WRAP GYP. BD. STOREFRONT SYSTEM AROUND EXISTING GIRTS RE: SHEET A620 CONT. SEALANT WHERE STAINLESS STEEL PLATE MEETS METAL PANEL - EXISTING PEMB EXTERIOR METAL PANEL AND INSULATION TO REMAIN. PROTECT IN PLACE, TYP CONT. SEALANT WHERE GYP. BD. MEETS STOREFRONT (A)EXISTING METAL STUD FRAMING AND GYPSUM BOARD TO REMAIN. PROTECT IN PLACE, TYP —

- 1/4" x 12" STAINLESS STEEL



STEEL COLUMN





PLAN DETAIL - END OF METAL PANEL SYSTEM

EXISTING METAL PANEL

SYSTEM TO REMAIN. PROTECT IN PLACE, TYP

3 5/8" METAL STUD FRAMING

AT INFILL OPENING

SOUND ATTENUATION

- 5/8" GYPSUM BOARD ON

ALUM. CHANNEL 3/4"x5/8"

EXISTING METAL PANEL SYSTEM TO REMAIN.

PROTECT IN PLACE, TYP

INDUSTRIES, INC PART# ZZ-ALU560

MOULDING- OUTWATER PLASTICS

BOTH SIDES

B.1)

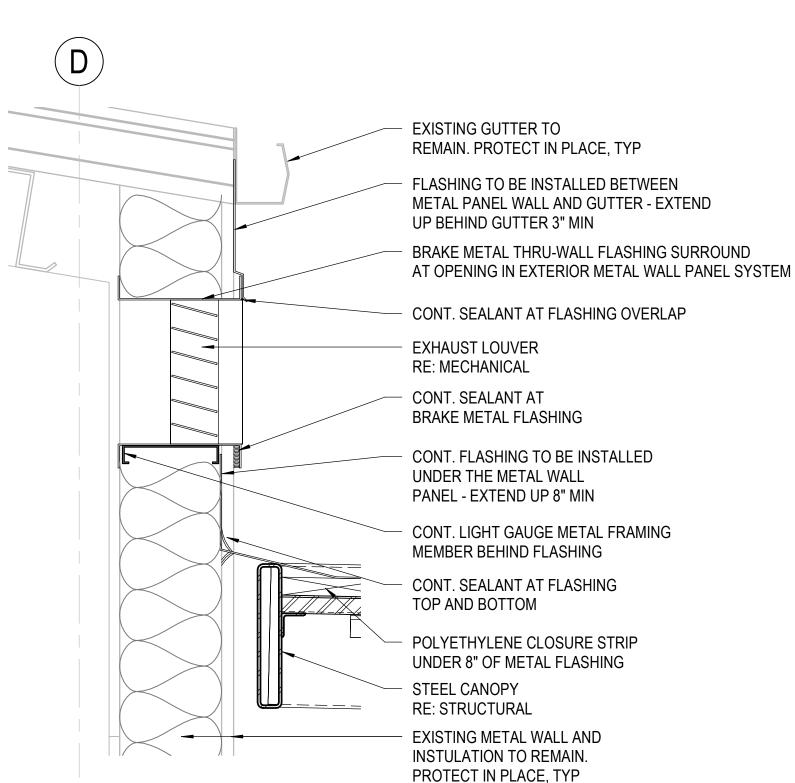
- 3 5/8" METAL STUD FRAMING

SOUND ATTENUATION

9 SECTION DETAIL - TOP OF WALL AT CEILING
1 1/2" = 1'-0"

(B)EXISTING METAL ROOF TO REMAIN. PROTECT IN PLACE, TYP 6" SLIP TRACK ATTACHED TO METAL STUDS 3 5/8" METAL STUD ATTACHED TO EXISTING PURLINS EXISTING RIGID FRAME TO REMAIN. PROTECT BATT INSULATION IN PLACE, TYP 6" METAL STUD FRAMING AT 16" O.C. EXISTING METAL WALL PANELS TO REMAIN. 5/8" GYPSUM BOARD (BEYOND)

SECTION DETAIL - WALL BRACING AT STRUCTURE



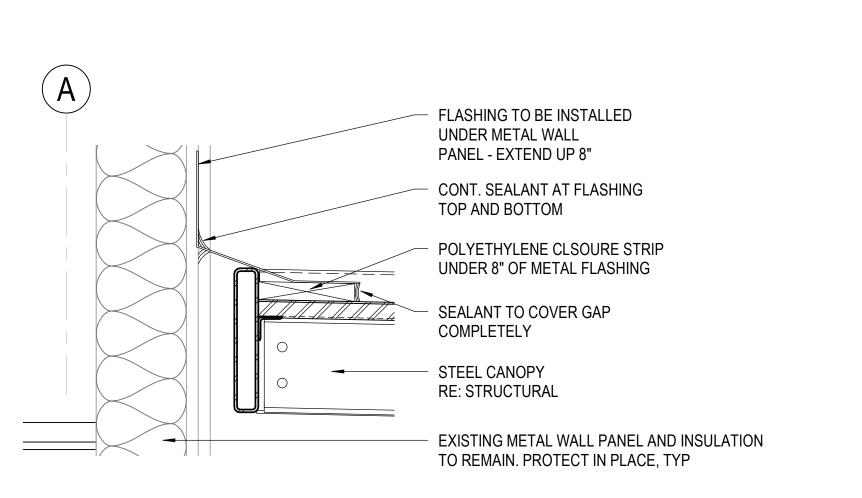
SECTION AT HVAC VENT

A **EXISTING METAL WALL** PANEL AND INSULATION TO REMAIN. PROTECT IN PLACE, TYP CONT. FLASHING TO BE INSTALLED UNDER METAL WALL PANEL - EXTEND UP 8" MIN CONT. SEALANT AT FLASHING NEW METAL WALL PANEL AND INSULATION AT EXISTING OPENING WHERE EQUIPMENT WAS REMOVED. MATCH ADJACENT CONSTRUCTION AND FINISH CONT. LIGHT GAUGE METAL FRAMING MEMBER BEHIND FLASHING FLASHING TO BE INSTALLED UNDER METAL WALL PANEL - EXTEND UP 8" POLYETHYLENE CLOSURE STRIP UNDER 8" OF METAL FLASHING SEALANT TO COVER **GAP COMPLETELY** CONT. SEALANT AT FLASHING CONT. FLASHING TO BE INSTALLED UNDER METAL WALL PANEL - EXTEND UP 4" MIN

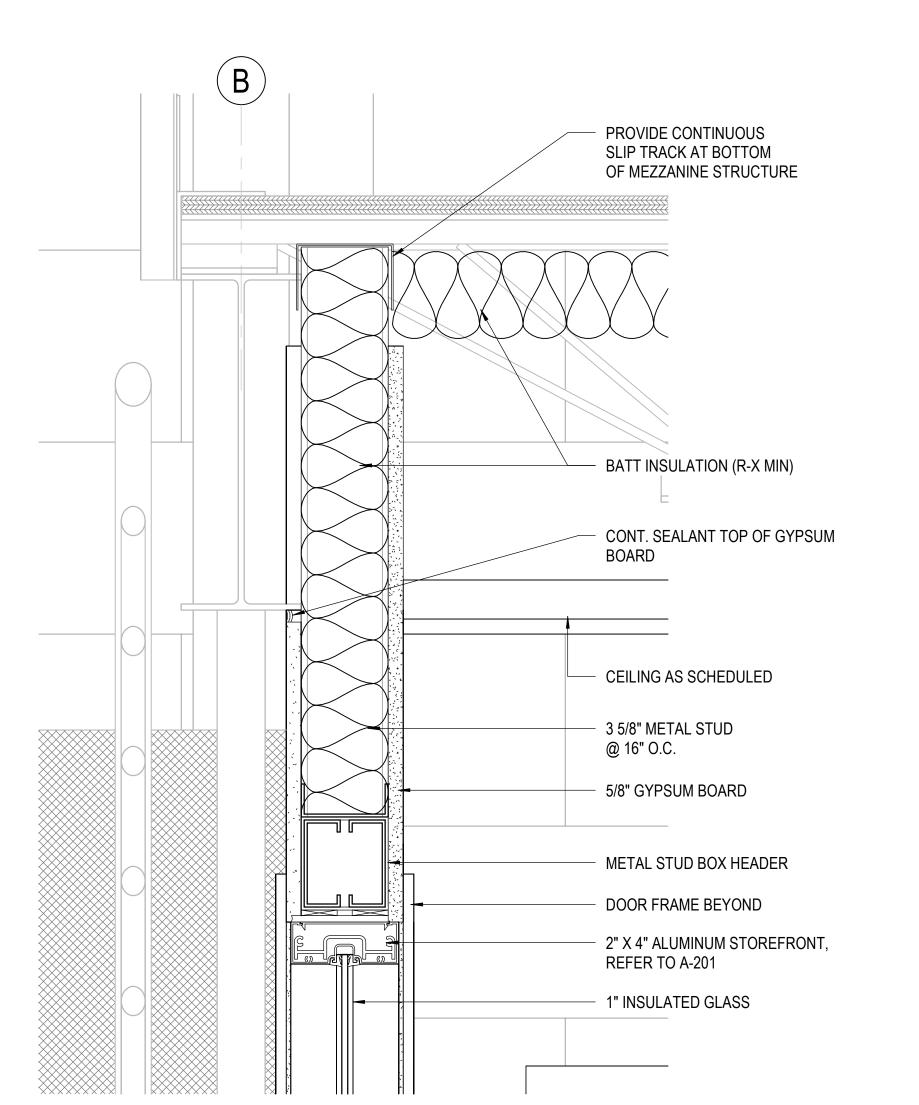
SECTION DETAIL - WALL INFILL

EXISTING METAL WALL PANEL 1'-3 1/4" AND INSULATION TO REMAIN. PROTECT IN PLACE, TYP EXTEND GYP BD ABOVE CONT. LIGHT GAUGE METAL FRAMING CEILING AS SHOWN MEMBER BEHIND FLASHING CEILING AS NOTED FLASHING TO BE INSTALLED BEHIND ON REFLECTED METAL PANEL WALL - EXTEND 8" MIN **CEILING PLAN** CONT. SEALANT AT FLASHING 5/8" GYPSUM - 1/4" x 20 1/2" STAINLESS STEEL PLATE BOARD -RE: STRUCTURAL 5/8" GYPSUM BOARD AT EXTERIOR WALL OPENING (BEYOND) STAINLESS STEEL PLATE BEYOND STOREFRONT SYSTEM RE: WINDOW TYPES

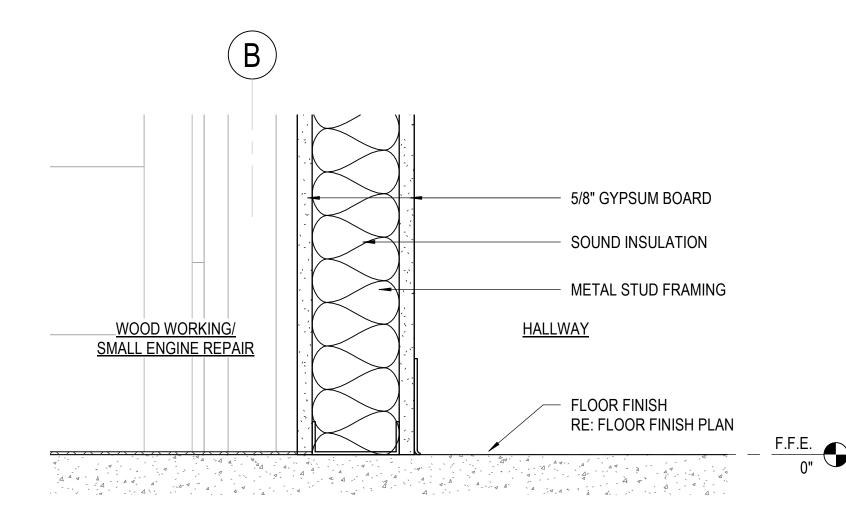
STOREFRONT HEAD DETAIL



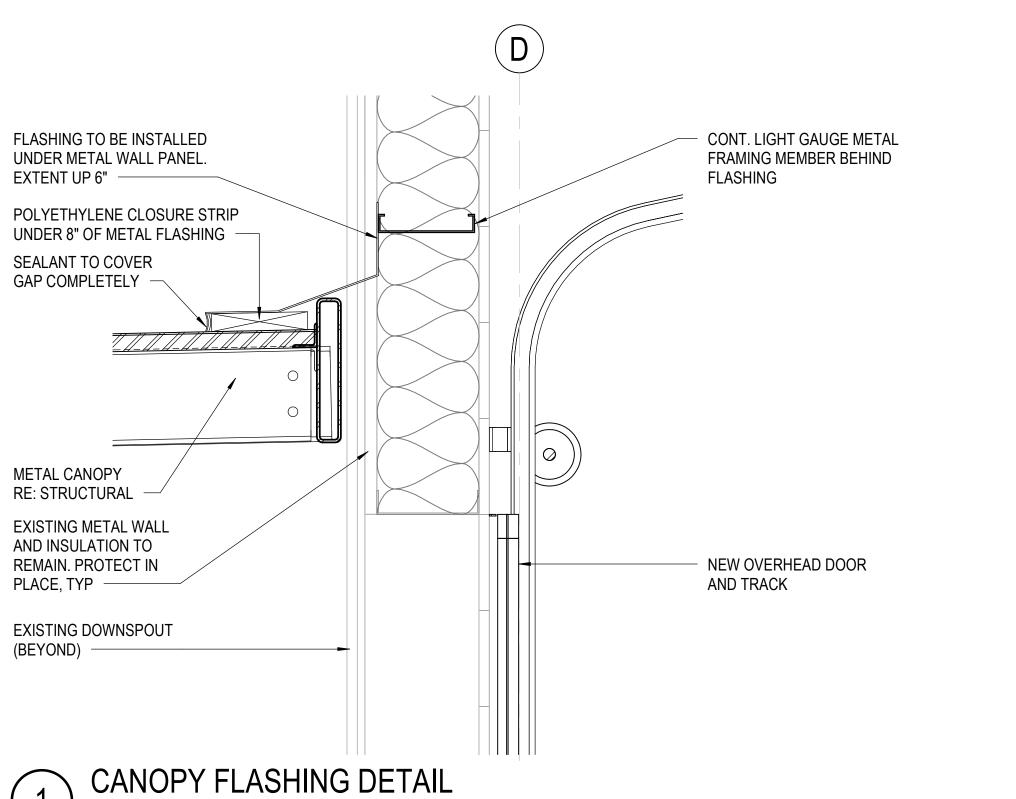
SECTION DETAIL - FLASHING AT ENTRY CANOPY



3 SECTION DETAIL - WALL AT HALLWAY
3" = 1'-0"



2 SECTION AT WALL BASE
3" = 1'-0"



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 $\frac{B}{K}$ \geq

Design Phase — CONSTRUCTION DOCUMENTS Date Description

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2292 X 06-30-2023

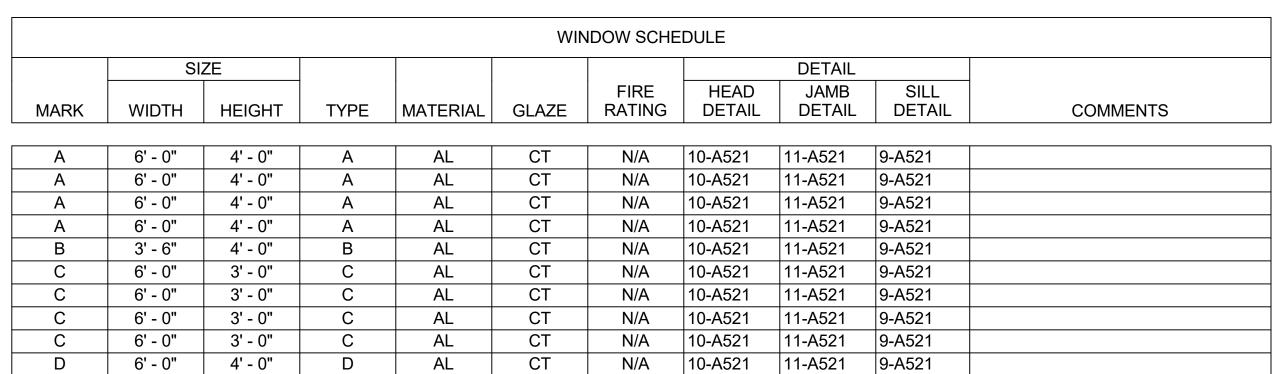
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Sheet Title ——

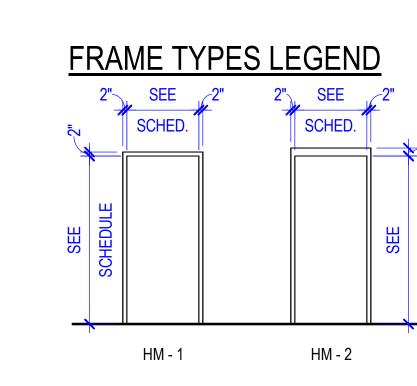
Sheet Number —

SECTION DETAILS



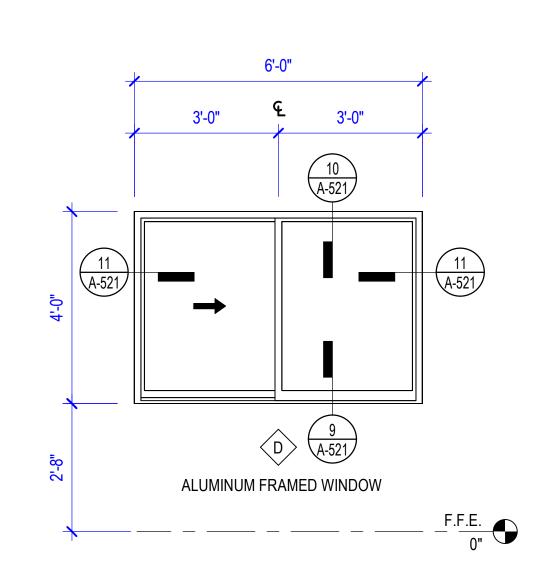
MATER	ALS								
AL	ALUMINUM								
ALG	ALUMINUM AND GLASS STOREFRONT DOOR								
СТ	CLEAR TEMPERED GLASS								
CW	CLEAR WIRE GLASS (VERTICAL AND HORIZONTAL WIRE PATTERN - NOT DIAGONAL)								
GHM	GALVANIZED HOLLOW METAL								
НМ	HOLLOW METAL								
IHM	INSULATED HOLLOW METAL								
SCW	SOLID CORE WOOD								
ST	STEEL								
W	WOOD								
MATER	ALS								
S	STAIN								
Р	PAINT								
CA	CLEAR ANODIZED								

	SEE SCHED.	
DOOR TYPES LEGEND		
SEE SEE SEE SEE SCHED. SCHED.		
SEE SCHED. SEE SCHED. SEE SCHED. SEE SCHED.		SEE SCHED.
A B C D SOLID DOOR FULL GLASS HALF GLASS LOUVER OPENIN PANEL DOOR PANEL DOOR PANEL IN DOOR	E NG WINDOWED OVERHEAD DOOR	1*



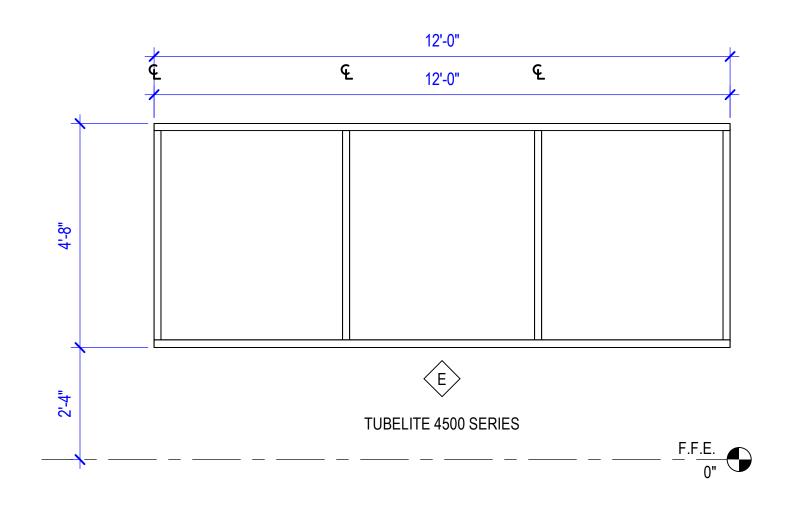
F.F.E.

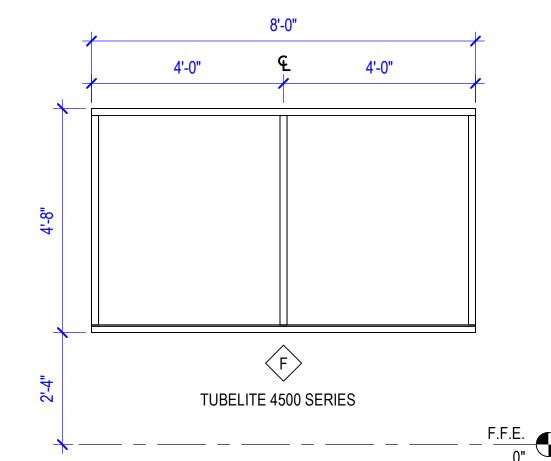
				,		CA	CLEAR	ANODIZED					.F GLASS LOUVER OPENING DR PANEL IN DOOR	WINDOWED OVERHEAD DOOR	F	HM - 1	HM - 2
			DOC	R SCHEDI	ULE												
	DOOR				FRAME												
	SIZE	LOUVER			DE	TAILS	FIRE RATING	HARDWARE SET									
DOOR NO. From Room: Name	TYPE W HT THK MATERIAL	WH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH HEAD JAN	ИВ THRSHLD.			COMMENTS								
			•	•		•	•										
99A ENTRY	B 3' - 0" 7' - 0" 1 1/2" ALUM			ALUM	FACTORY	- 10-A521		5									
100A CLASSROOM	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521 9-A521		3									
101B LOUNGE 102A ENTRY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 7/A-521 8/A-	521 9-A521		4									
102A ENTRY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		EXISTING									
105A HALLWAY	C 3' - 0" 7' - 0" 1 3/4" HM		2	HM	PAINT 1-A521 4-A	521 9-A521					6'-0"		3'	-6"		6'-0"	
105B HALLWAY	B 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		3		/	3'-0" G 3'-0"		1'-9"	1'-9"	3'-0'	" & 3'-0"	
106A HALLWAY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		2		<u> </u>	3-0 2 3-0		1-9	 1-9 	3-0	3-0	
107A HALLWAY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		2			10			(10)		10	1
108A HALLWAY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		2			10 A-521			A-521		(10) A-521	/
109A HALLWAY	A 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521		2						T			
111A DATA SERVER CLOSET	D 3' - 0" 7' - 0" 1 3/4" HM		1	HM	PAINT 1-A521 4-A	521		3				=			+		<u> </u>
112A WOOD WORKING-SMALL ENGIN	NE B 3' - 0" 7' - 0" 1 3/4" SCW		1	HM	FACTORY 1-A521 4-A	521	20	3							11		11 A-521
112B WOOD WORKING-SMALL ENGIN	NE C 3' - 0" 7' - 0" 1 3/4" HM		2	HM	PAINT 1-A521 4-A	521 9-A521		3		5 A-521	─ →	A-521	A-521	A-521	A-521		A-521
112C WOOD WORKING-SMALL ENGIN	NE E 12' - 0" 12' - 0" 1 1/2" ST				FACTORY 3-A503			MANUFACTURER		4			4				
112D WOOD WORKING-SMALL ENGIN	NE E 12' - 0" 12' - 0" 1 1/2" ST				FACTORY 3-A503			MANUFACTURER								9	
112E WOOD WORKING-SMALL ENGIN	NE E 12' - 0" 12' - 0" 1 1/2" ST				FACTORY 3-A503			MANUFACTURER						9 A-521		A-521	
114B WELDING	E 12' - 0" 12' - 0" 1 1/2" ST				FACTORY 3-A503			MANUFACTURER			$\langle A \rangle \qquad \frac{9}{A-521}$		™	R X Y Y Y Y	3.	⟨c⟩	
114C WELDING	C 3' - 0" 7' - 0" 1 3/4" HM		2	HM	PAINT 1-A521 4-A	521 9-A521		3		2-	ALUMINUM FRAMED WINDOW		ALUMINUM FR	AMED WINDOW	MILIA	INUM FRAMED WINDOW	ıΛ
115A ALCOVE	B 3'-0" 7'-0" 13/4" SCW		1	HM	FACTORY 1-A521 4-A			3			, LOMING TO WILD THE OW			-	ALUIVI	ACIAL LAWIED ANIMOOM	ď

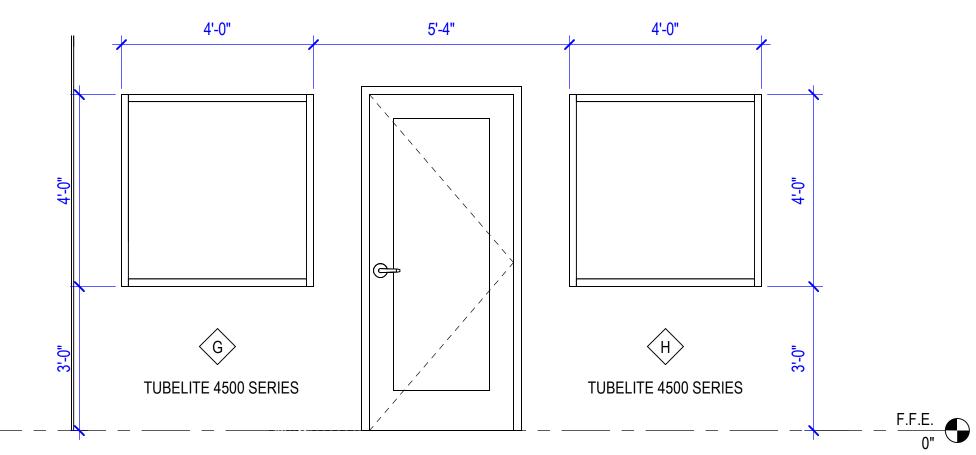


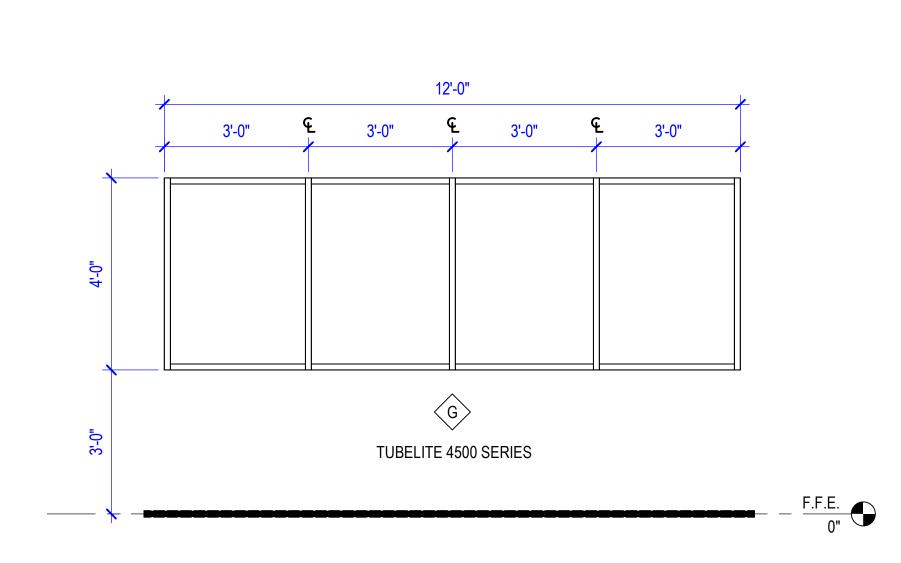
115A ALCOVE

115B EVENING-WEEKEND BIKE REPAIR C



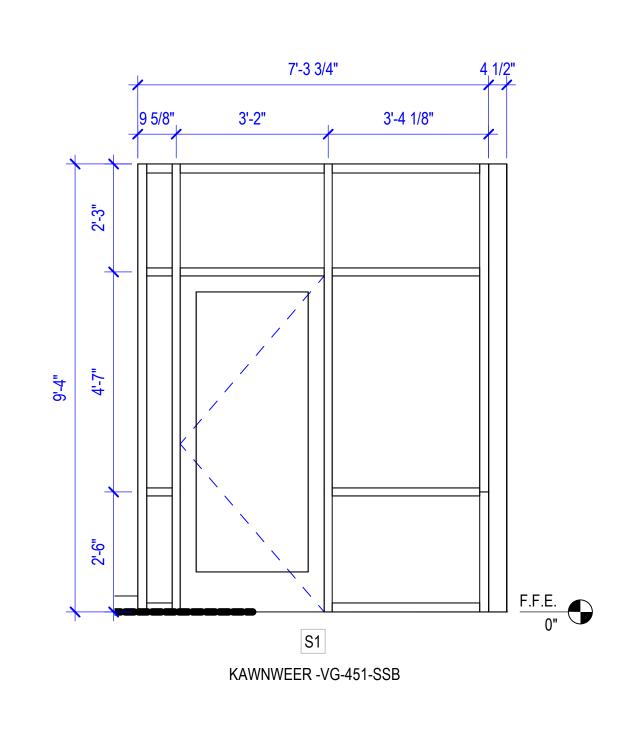






3' - 0" 7' - 0" 1 3/4" SCW

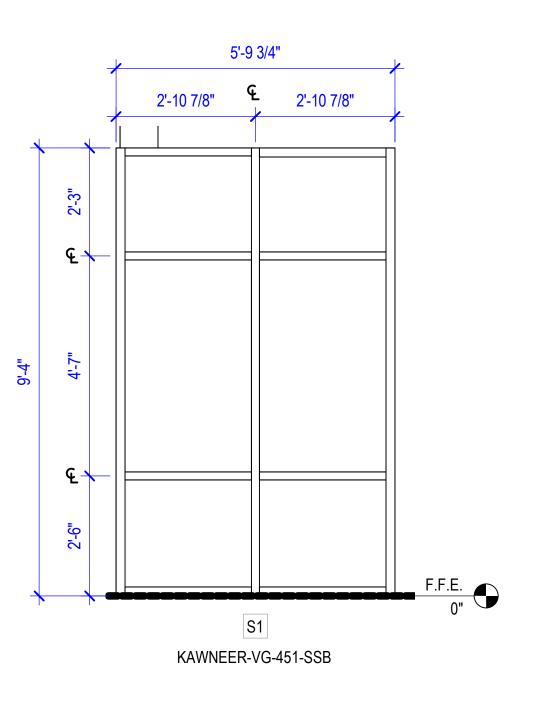
3' - 0" 7' - 0" 1 3/4" HM

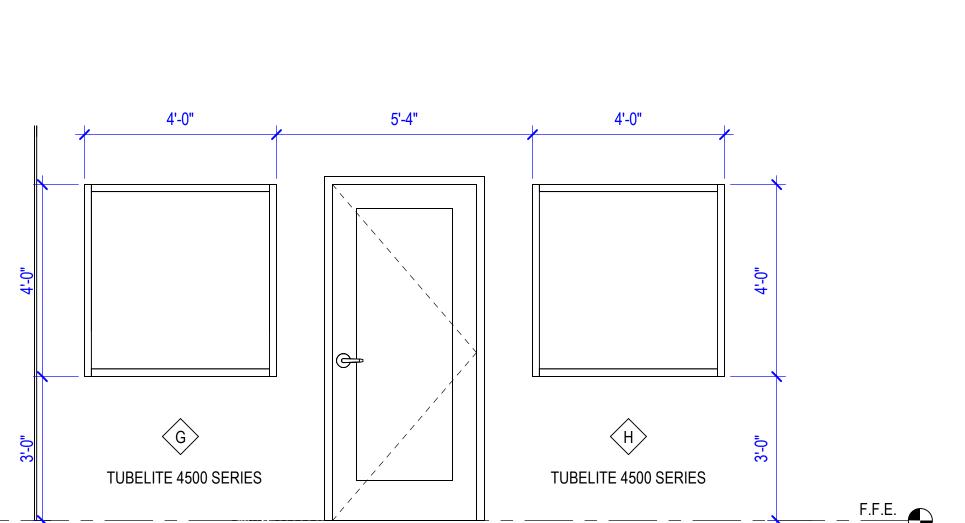


FACTORY 1-A521 4-A521 ---

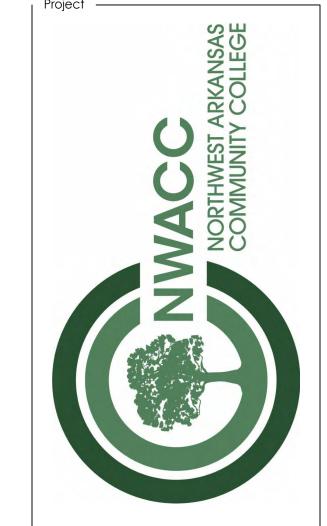
PAINT

1-A521 4-A521 9-A521





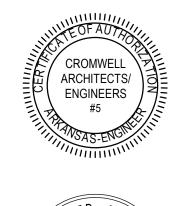
[] CROMWELL 1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com





CONSTRUCTION DOCUMENTS

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DOOR AND WINDOW **SCHEDULES AND DETAILS**

Sheet Number ———

Sheet Title ———



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DOOR AND WINDOW **DETAILS**

Sheet Title ——

Sheet Number ——

8 3/4" HM FRAME BEYOND ALUM. THRESHOLD -DOOR, SEE SCHED. SET IN FULL BED OF SEALANT - FLOOR FINISH SLOPE CONC. @ 1/4"/FT. AS SCHEDULED SIDEWALK SLAB COMPRESSIBLE CONC. SLAB JOINT FILLER

- INSULATED HOLLOW METAL DOOR

WEATHERSTRIPPING

THRESHOLD

CONC. WALK

1:50 MAX. SLOPE

- ADA APPROVED ALUMN.

SET IN FULL BED OF MASTIC

COMPRESSIBLE JOINT FILLER

ALUM. THRESHOLD @ EXT. DOOR

3" = 1'-0"

HOLLOW METAL THRESHOLD

CONC. SLAB

CONT. SEALANT AS REQUIRED, BOTH

SIDES, TYP.

GALV. HOLLOW

METAL FRAME

DOOR AS

SCHEDULED

EXISTING CMU BLOCK WALL AS IT OCCURS

(A-C1025-0001) VERT. MULLION, WINDOW / DOOR - 4 7/8" THROAT

DOOR, SEE SCHEDULE

GLAZING, SEE WINDOW

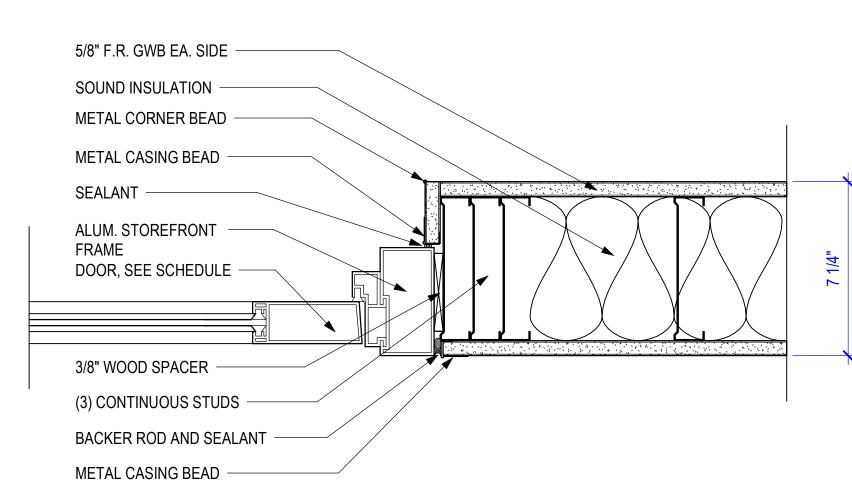
CLIP ANCHOR TO FLOOR

INTERMEDIATE MULLION

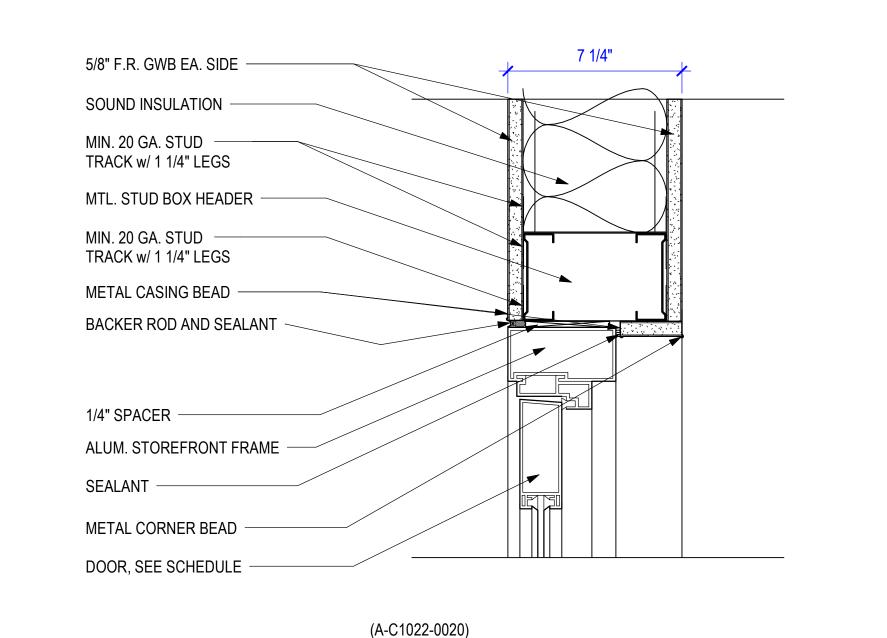
ELEVATIONS

SCREWS

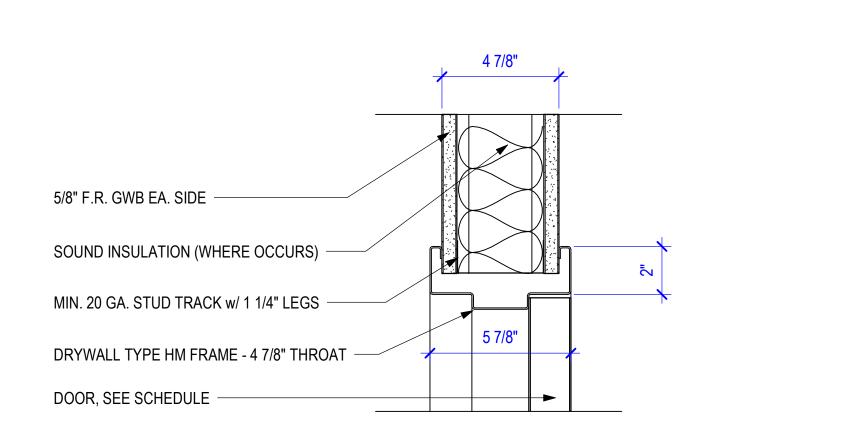
GLAZING STOPS- APPLY w/ -COUNTERSUNK SS



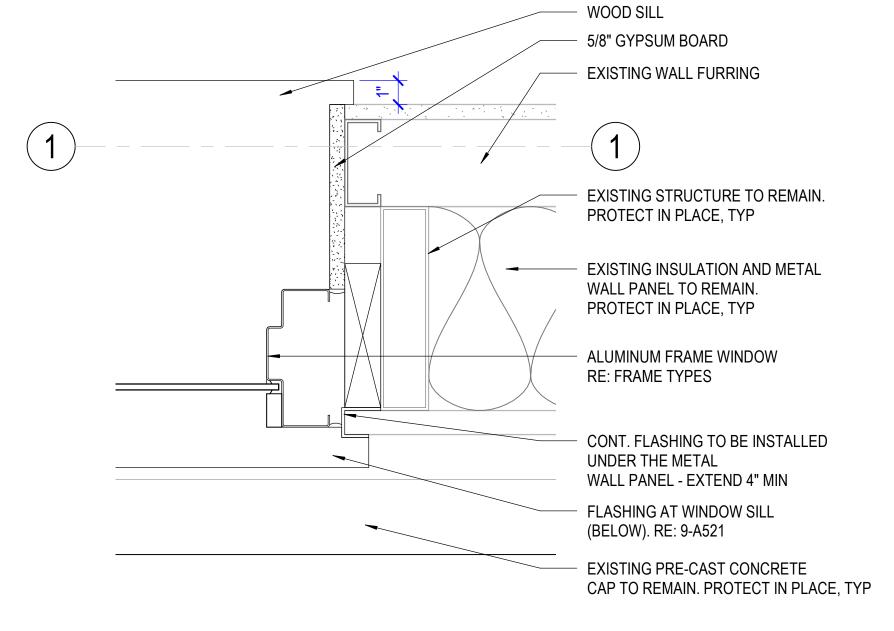
JAMB, INT. STOREFRONT @ 6" STUDS



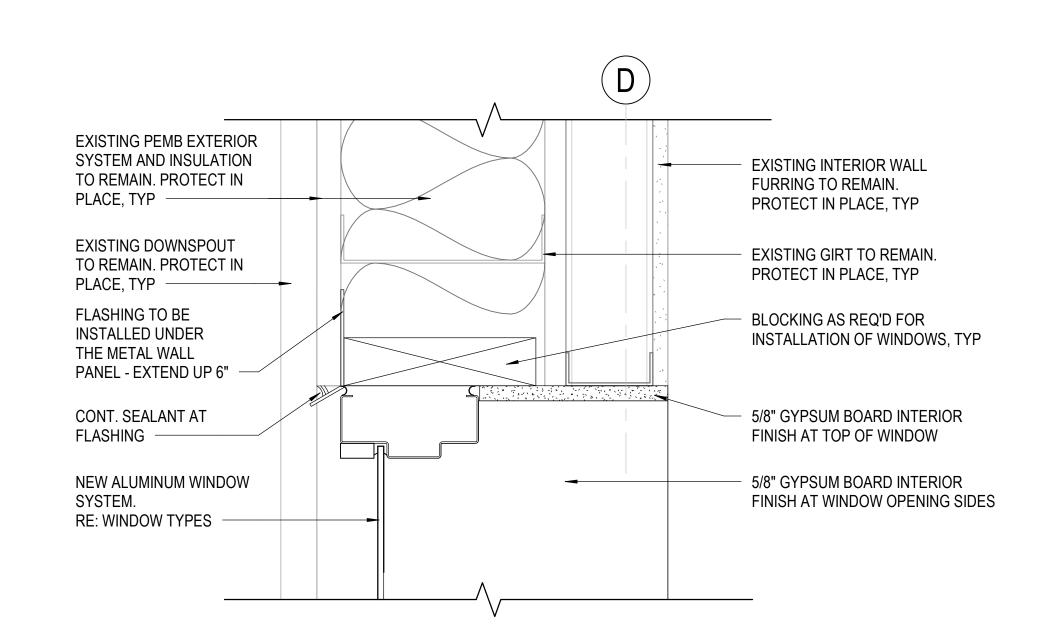
HEAD, INT. STOREFRONT @ 6" STUDS



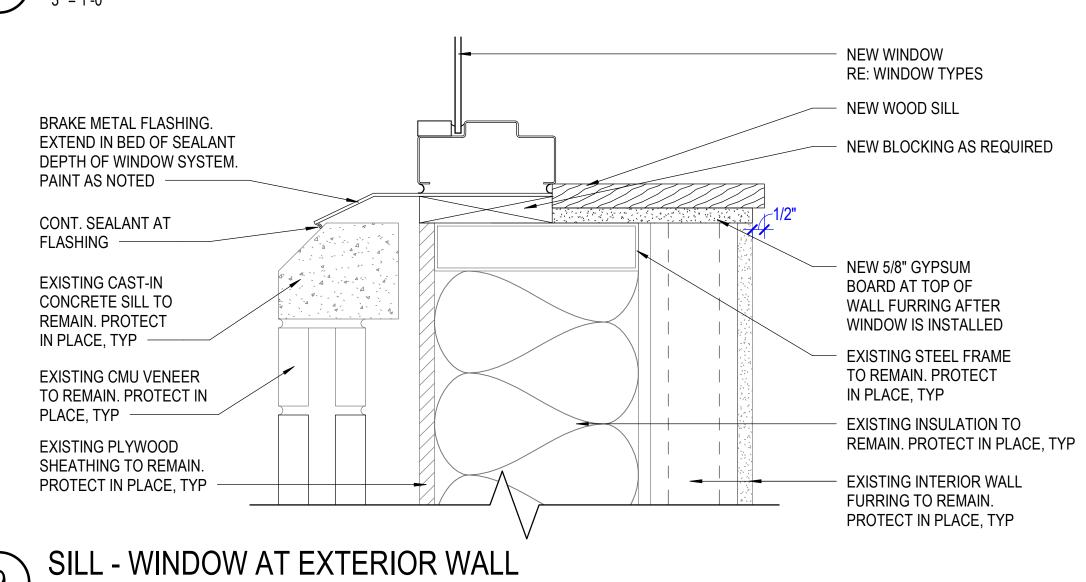
HEAD, DOOR @ GWB - 3 5/8" STUDS-OPNGS LESS THAN 84"



JAMB - WINDOW AT EXTERIOR WALL



HEAD - WINDOW AT EXTERIOR WALL
3" = 1'-0"



HEAD - HM DOOR AT CMU WALL

EXISTING CMU BLOCK WALL AS IT OCCURS STEEL LINTEL PLATE RE: STRUCTURAL BACKER ROD AND SEALANT HOLLOW METAL FRAME -**GROUT FULL** DOOR, SEE SCHEDULE

JAMB - HM DOOR AT CMU WALL

ROOM FINISH SCHEDULE															
	ROOM			NOR	TH WALL	SOUTH	WALL	EAST W	ALL	WEST WA	ALL	CEILING	G	ROOM	
NUMBER	NAME	FLOOR	BASE	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	MATERIAL	COLOR	NUMBER	REMARKS
99	ENTRY													99	
100	CLASSROOM	VT-1	RB-1	GWB/ALG	VWG	GWB	P-1	E-CMU	P-1	GWB	P-1	ACT	ACT-1	100	
101	LOUNGE	VT-1/VT-2	RB-1	GWB	P-1/P-4/ VWG	GWB/ALG	VWG/WFG/ P-1/	E-CMU	P-1/ P-4	GWB	P-1	ACT	ACT-1	101	
102	WOMENS TLT	E-VCT	E-RB	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	E-ACT		102	
103	MEN'S TLT	E-VCT	E-RB	EXIST	P-1	EXIST	P-1	EXIST	P-1	EXIST	P-1	E-ACT		103	
104	STORAGE	RES-1		EXIST		GWB	P-1	GWB	P-1	E-CMU	P-1	E-EXP		104	
105	HALLWAY	VT-1/VT-2	RB-1	GWB	P-1	GWB/ALG	VWC/ WFG	GWB/E-CMU	P-1	GWB	P-4	ACT	ACT-1	105	
106	OFFICE 1	VT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-3	106	
107	OFFICE 2	VT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-3	107	
108	OFFICE 3	VT-1	RB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-3	108	
109	OFFICE 4	VT-1	RB-1	GWB	P-1	GWB	P-1	E-CMU	P-1	GWB	P-1	GWB	P-3	109	
110	UNISEX RR	E-VCT	E-RB									E-ACT		110	
111	DATA SERVER CLOSET											E-EXP		111	NO SCOPE OF WORK
112	WOOD WORKING-SMALL ENGINE REPAIR	RES-1		GWB/ALG	P-1	EXIST/GWB	P-1	EXIST	P-4	E-CMU/GWB	P-1	E-EXP	P-5	112	
114	WELDING	RES-1		GWB/ALG	P-1	GWB	P-1	E-CMU	P-4	EXIST	P-1	E-EXP	P-5	114	
115	EVENING-WEEKEND BIKE REPAIR	RES-1		GWB/ALG	VWG/P-1/	GWB	P-1	E-CMU	VWC/ P-4	E-CMU	P-1	E-EXP	P-5	115	
116	ALCOVE	VT-1/VT-2	RB-1	GWB	P-1	GWB/ALG	P-1	E-CMU	P-1	E-CMU/GWB	P-1	GWB	P-3	116	
117	MEZZANINE STORAGE 1			EXIST				E-CMU		E-CMU		E-EXP	P-5	117	NO SCOPE OF WORK
118	MEZZANINE STORAGE 2											E-EXP	P-5	118	NO SCOPE OF WORK
119	SCREEN ENCLOSURE 2													119	NO SCOPE OF WORK
120	OUTDOOR STORAGE													120	NO SCOPE OF WORK

WALL	GRAPHICS PAINT LEGEND
P-6	SHERWIN WILLIAMS, SW6188 SHADE-GROWN
P-7	SHERWIN WILLIAMS, SW6187 ROSEMARY
P-8	SHERWIN WILLIAMS, SW6191 CONTENTED
P-9	SHERWIN WILLIAMS, SW6458 RESTFUL
P-10	SHERWIN WILLIAMS, SW7745 AGATE GREEN
P-11	SHERWIN WILLIAMS, SW6460 KALE GREEN
P-12	SHERWIN WILLIAMS, SW6452 INLAND



FINISHES LEGEND

FLOO	RS						
RES-1	TNEMEC, EPOXY URETHANE SYSTEM, PRIMER: SERIES 208 EPOXOPRIME MVT, INTERMEDIATE COAT: SERIES 281 TNEME GLAZE, FINISH COAT: SERIES 248 EVERTHANE W/ COURSE GLASS BEADS						
VT-1	PATCRAFT SHAPE STUDY, GRAPH, COLOR: ASH 24"x24"						
VT-2	PATCRAFT SHAPE STUDY, PLANAR, COLOR: GREEN PLANAR 20 MIL WEAR LAYER, 24"x24"						
BASE							
RB-1	JONHSONITE BASEWORKS TRADITIONAL RUBBER BASE, COLOR: 168 THUNDER, 4"H, PROVIDE IN ROLLS WITH PREFORMED CORNERS						
WALL	WALLS						
P-1	SHERWIN WILLIAMS, SW6182 ETHEREAL WHITE, WATERBORNE EPOXY, EGSHELL FINISH						
P-2	SHERWIN WILLIAMS, SW6188 SHADE-GROWN, HOLLOW METAL PAINT, SEMI-GLOSS FINISH						
P-4	CUSTOM PAINTED WALL GRAPHICS, DESIGNS TBD, SIMILAR TO NWACC LOGO. SEE ELEVATIONS & ACCENT PAINTS LEGEND.						
VWG	CDIGITAL, CUSTOM DIGITALLY PRINTED TYPE II VINYL WALLCOVERING AT DESIGNATED LOCATIONS. DESIGN TBD						
CEILII	NGS						
ACT-1	ARMSTRONG, ULTIMA, 24" X 24" WITH 15/16" WHITE GRID						
P-3	SHERWIN WILLIAMS, SW7005 PURE WHITE, FLAT FINISH						
P-5	SHERWIN WILLIAMS, SW7005 PURE WHITE, DRYFALL PAINT FOR EXPOSED CEILINGS, MOISTURE RESISTANT						
	·						

CG-1 2" STAINLESS STEEL CORNER GUARD, MECHANICALLY FASTENED, 8'-10' LENGTHS

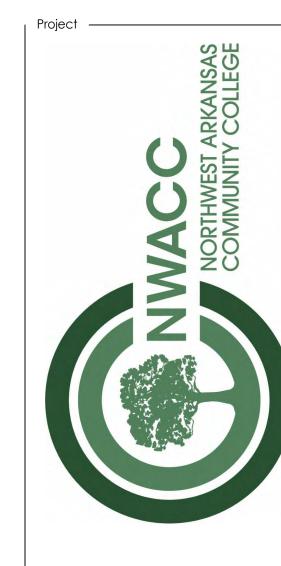
WFG CDIGITAL, CUSTOM PRINT WINDOW FILM GRAPHIC APPLIED TO INTERIOR WINDOW SURFACES AT DESIGNATED LOCATION. DESIGN TBD

GENERAL NOTES:

MISCELLANEOUS

7.VT TO RECEIVE MANUFACTURER'S RECOMMENDED ADHESIVES, PENDING CONCRETE MOISTURE TESTING.
8. PAINT DUCT WORK PENETRATING WALL TO MATCH WALL PAINT OR WHERE VISIBLE BELOW CEILING. COORDINATE WITH AE.

MATERIAL LEGEND						
"NO" OR "NONE"						
ACOUSTICAL CEILING TILE						
ALUMINUM/ GLASS						
CORNER GUARD						
CONCRETE MASONRY UNIT						
SEALED CONCRETE						
EXPOSED STRUCTURE						
EXISTING MATERIAL						
GYPSUM WALL BOARD						
PAINT						
PLASTIC LAMINATE						
PLYWOOD						
RESILIENT BASE						
VINYL TILE						
VINYL WALL GRAPHIC APPLIQUE						
WINDOW FILM GRAPHIC						

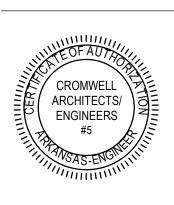


NWACC ITSTI BIKE LAB RTHWEST ARKANSAS COMMUNITY COLI 1201 S.E. EAGLE WAY 1201 S.E. EAGLE WAY RENITONIVILLE APPLANCES 22712

Design Phase —
CONSTRUCTION
DOCUMENTS

Revisions ———

No.	Date	Description
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Sheet Number ———

ROOM FINISH SCHEDULE, NOTES AND LEGENDS

06-30-2023

A-601

No. Date Description





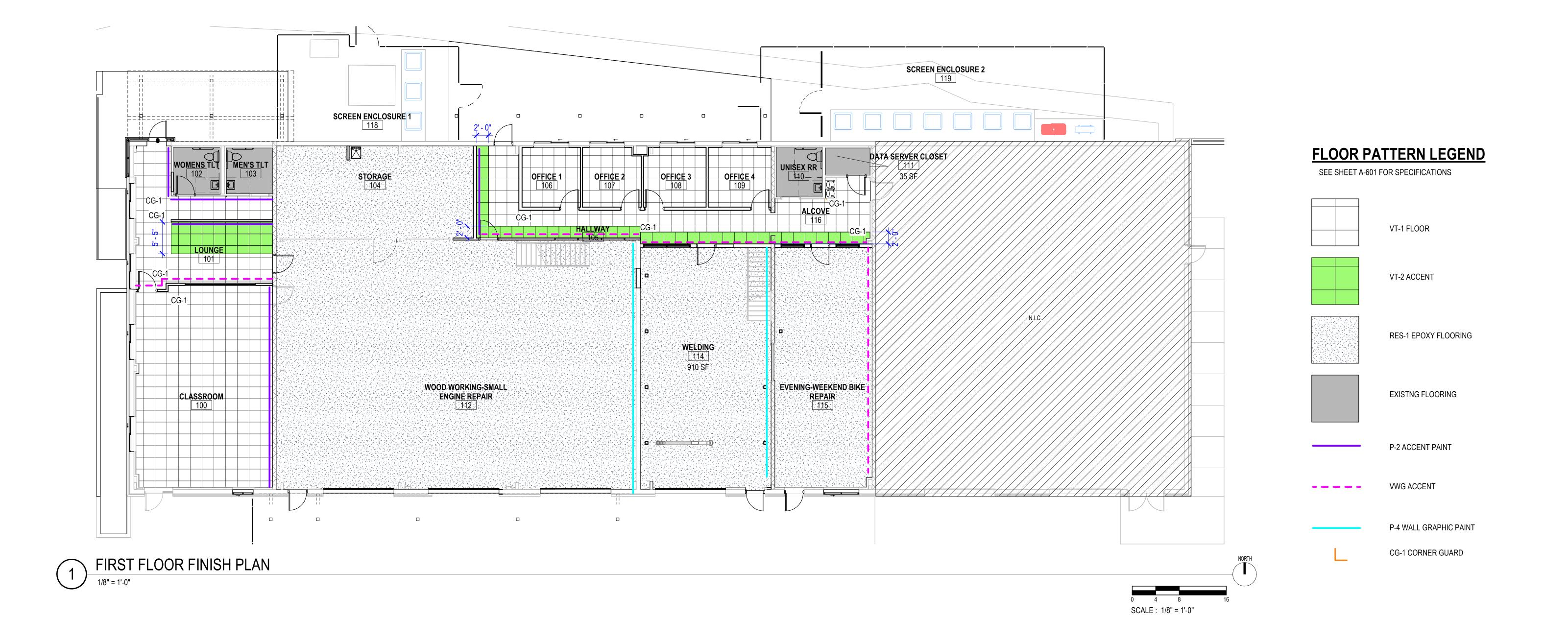
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FLOOR FINISH PLAN

Sheet Number ————

I-101





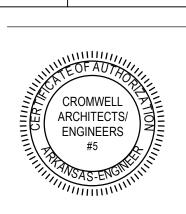
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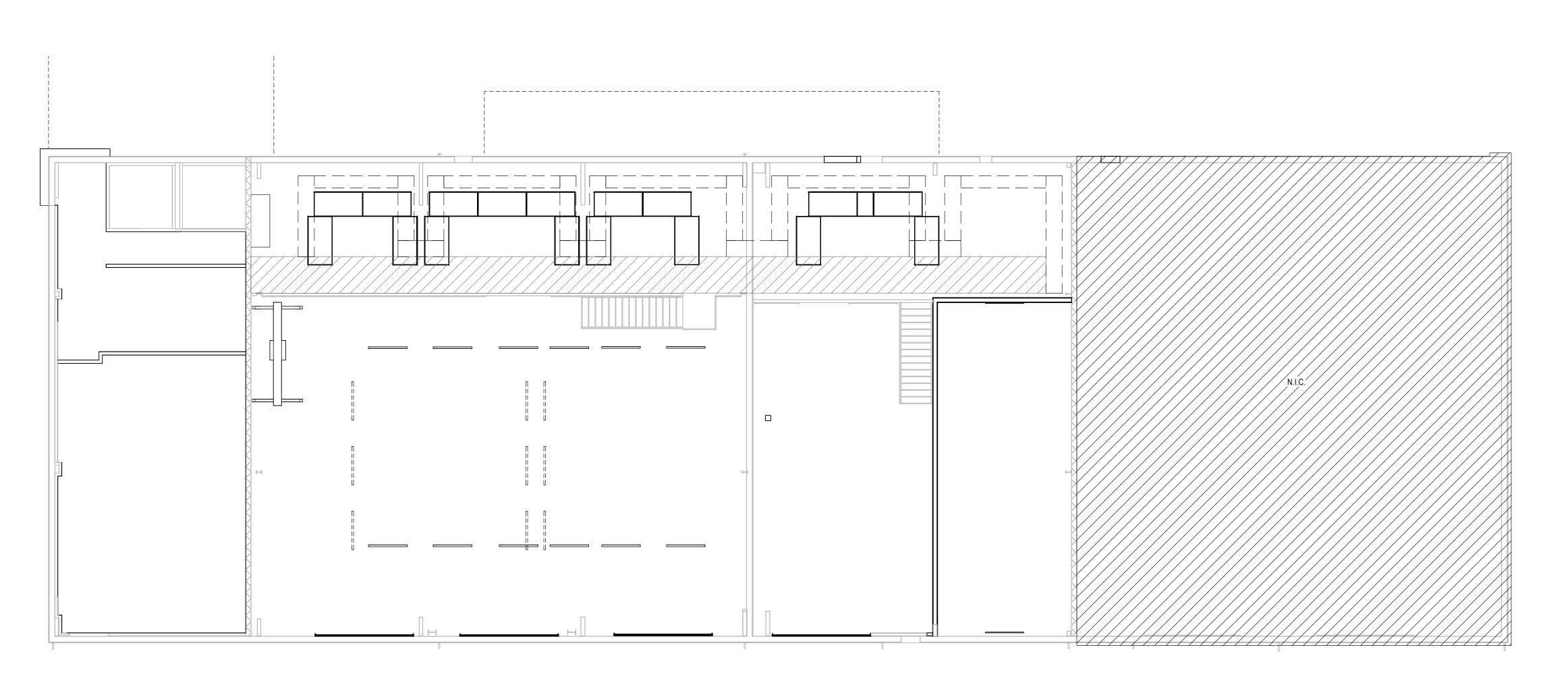
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FIRST FLOOR FURNITURE PLAN

Sheet Title ———

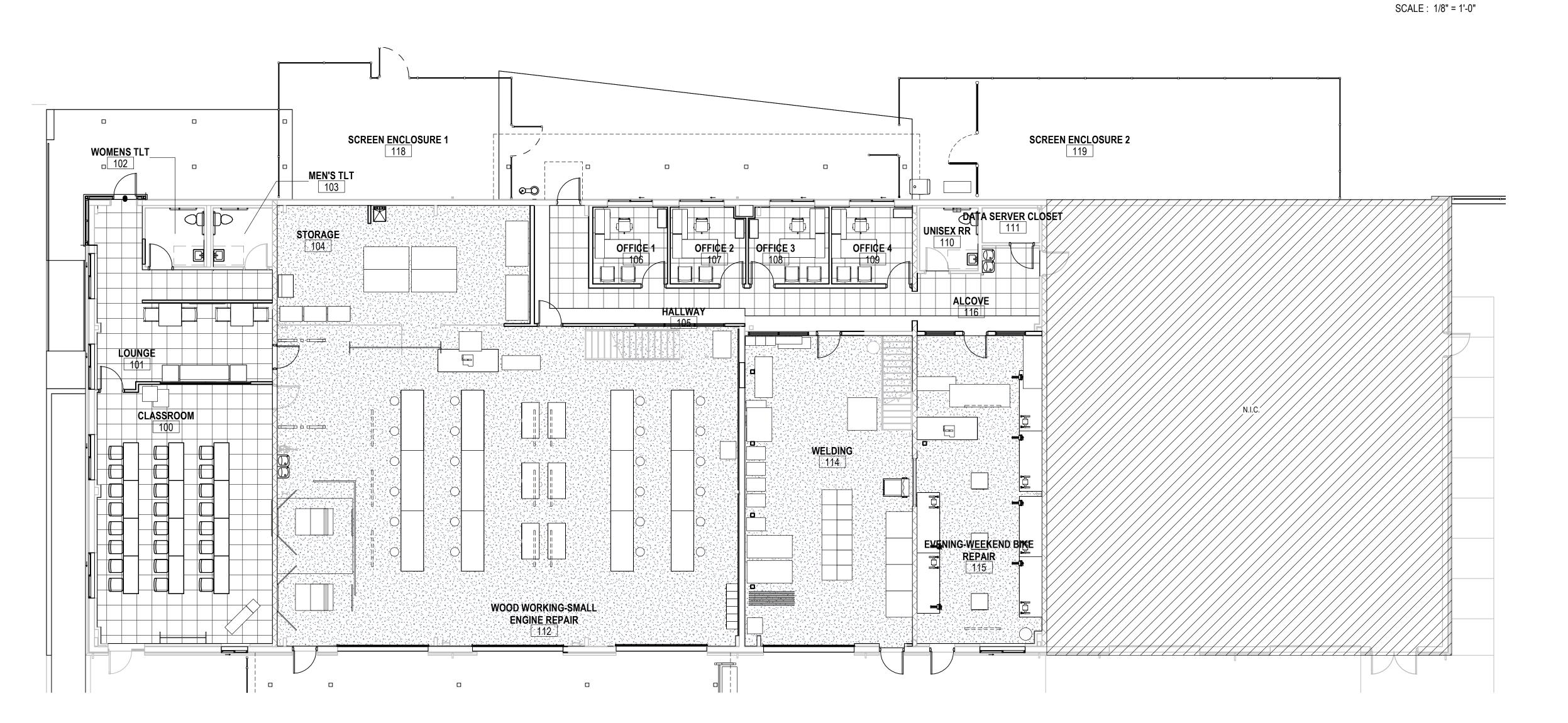
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IF101



MEZZANINE FURNITURE PLAN

1/8" = 1'-0"



FIRST FLOOR FURNITURE PLAN

1/8" = 1'-0"

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

	& INSTALLI	ED BY G.C. (ITEMS NOT SHOWN IN	PLANS)	
<u>EQUIPMENT</u> Description	Count	Manufacturer	Model	NOTES
M18 FUEL 18V LITHIUM-ION BRUSHLESS CORDLESS DEEP CUT BAND SAW (TOOL ONLY)	6	MILWAUKEE (via GRAINGER)	55ZK41	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
M18 FUEL 18V LITHIUM-ION HIGH OUTPUT 6.0 Ah BATTERY PACK (4-PACK)	3	MILWAUKEE	48-11-1862	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
18V LITHIUM-ION BRUSHLESS CORDLESS 3/4", 1 1/2" in. MAGNETIC DRILL KIT W/(2) 8.0 Ah BATTERIES	2	MILWAUKEE	2787-22HD	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
M18 FUEL 18V CORDLESS CUTOFF/GRINDER (TOOL ONLY)	12	MILWAUKEE	2680-20	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
M18 FUEL 18V LITHIUM-ION BRUSHLESS CORDLESS 7/9in ANGLE GRINDER (TOOL ONLY)	2	MILWAUKEE	2785-20	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
LIGHTED WELDER EXTENSION CORD	6	BAD ASS	WLD08025BK	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
MANUAL REBAR BENDER AND CUTTER 9.25"x7.5"x52.75"	3	BON TOOLS		G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
TUBE BENDER 2" CAPACITY WITH DIES	1	SWAG REV 2	R2TB	G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
UM-PLATE-MOBILE, VERSA-MOUNT MOBLE UNIVERSAL PEDESTAL 36"x22"x30"	1	SWAG REV 2		G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
CONSUMABLES				
VWA 60111850 1/8 6011 10# BOX, STICK WELDING ROD	2			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
VWA 701812510 1/8 7018 10# PKG	1			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
OX251, UN1072 Oxygen, cpmressed, 2.2, (5.1)	3			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
ACT125, UN1001 Acetylene, Dissolved, 2.1, small size	3			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
ARCO2390, UN1956 Compressed Gasses, N.O.S., (75% Argon, 25% CO2), 2.2, T Size	6			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
ACT10 Acetylene , Dissolved, 2.1, MC size	3			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
OX21 Oxygen, Compressed, 2.2, (5.1), R size	3			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
HYP 428931 Hypertherm 65a cartridge smartsync drag (consumable replacement parts)	2			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
EXO 70S6030X11, .030 70S6 11# spool (mild steel welding wire for MIG welders)	6			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
PERSONAL PROTECTION EQUIPMENT				
MIL 289842 Miller autodarkening welding helmet, digital CL2, performance black	12			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
REV BxRB9C-LRG Cotton welding jacket Large	4			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
REV BX9C-MED Cotton welding jacket medium	6			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
REV BX9C-XLG Cotton welding jacket X-Large	2			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
TLM 1350M, MD cowhd MIG 4" cuff CD (welding gloves)	6			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
TLM 1350L, LG cowhd MIG 4" cuff CD (welding gloves)	4			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
TLM 1350XL, XL cowhd MIG 4" cuff CD (welding gloves)	2			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
EXISTING EQUIPMENT				
BOX BREAK AND SLP ROLLER (MOUNTED ON ROLLING TABLE/TABLE BUILT IN-HOUSE)	1			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
GRIZZLY G0707 SANDBLASTER	1			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION
AIR COMPRESSOR	1			G.C. SUPPLIED & INSTALLED/COORDINATE WITH CLIENT ON FINAL LOCATION



Description	Count	Manufacturer	Model
TDI ITOLICH 86" 4K INTEDACTIVE DISDI AV	1	NEWLINE (via CDW)	5932940
	1	,	LNC9-10365
JOET 30 CART	1	LOCKNUMARGE	LINC9-10305
WOOD WORKING/SMALL ENGINE REPAIR EQU	IPMENT P	ROVIDED AND INSTALLED BY G.C.	
Description	Count	Manufacturer	Model
	<u>'</u>		
BADASS WELDING AND FABRICATION TABLE, 96IN x 36IN	12	BADASS WORKBENCH	175-3X8WELD-14
HAND WINCH LIFT TRUCK - 350 LB CAPACITY	1	VESTIL (via NORTHERN TOOL)	A-LIFT-S-EHP
JOEY 30 CART	1	LOCKNCHARGE	LNC9-10365
DESKTOP DOCUMENT CAMERA	1	ELMO	ELMO TT12W
11 PANEL FIRE RESISTANT ROOM DIVIDER (6'H x 20'-5"L)	1	NORWOOD COMMERCIAL FURNITURE	NOR-FSL6011-WX
STANDARD FLAMMABLE STORAGE CABINET	1	ULINE	H-1564M-Y
ADJ. HT ALUM. GANTRY CRANE 12'W x 9'-6"-12'H	1	GLOBAL INDUSTRIAL	T9FB2262132
PORTABLE GENERATOR	1		
SERIES 2 DOUBLE BANK ROLLER CABINET	1	U.S. GENERAL	64864/64866
METAL TOOL CHEST 57"x28"	6	MATCO TOOLS	4228TB
PACKING TABLE 96"x36"	1	ULINE	
METAL LAB STOOL W/BACKREST (COLOR GRAY)	24	LEARNITURE	NOR-TY-53818B-PK
STUDENT LOCKERS	6	HALLOWELL	HAL-U1288-6HDV-A
LONG HANDLED TOOL RACK	4	WESTWARD/GRAINGER	48GE61
ALL-WELDED STORAGE LOCKER W/ 2 CENTER SHELVES (72"Wx36"Dx78"H)	6	LITTLE GIANT	LTG-SL2-3672
· · · · · · · · · · · · · · · · · · ·	1	,	<u>'</u>
WELDING FOLUDIATITED OVER		NOTALLED BY C.C.	
WELDING EQUIPMENT PROVIL	UND I	NOTALLED BY G.C.	
	Description BADASS WELDING AND FABRICATION TABLE, 96IN x 36IN HAND WINCH LIFT TRUCK - 350 LB CAPACITY JOEY 30 CART DESKTOP DOCUMENT CAMERA 11 PANEL FIRE RESISTANT ROOM DIVIDER (6'H x 20'-5"L) STANDARD FLAMMABLE STORAGE CABINET ADJ. HT ALUM. GANTRY CRANE 12'W x 9'-6"-12'H PORTABLE GENERATOR SERIES 2 DOUBLE BANK ROLLER CABINET METAL TOOL CHEST 57"x28" PACKING TABLE 96"x36" METAL LAB STOOL W/BACKREST (COLOR GRAY) STUDENT LOCKERS LONG HANDLED TOOL RACK ALL-WELDED STORAGE LOCKER W/ 2 CENTER SHELVES (72"Wx36"Dx78"H)	TRUTOUCH 86" 4K INTERACTIVE DISPLAY JOEY 30 CART WOOD WORKING/SMALL ENGINE REPAIR EQUIPMENT P Description Count BADASS WELDING AND FABRICATION TABLE, 96IN x 36IN 12 HAND WINCH LIFT TRUCK - 350 LB CAPACITY JOEY 30 CART DESKTOP DOCUMENT CAMERA 11 PANEL FIRE RESISTANT ROOM DIVIDER (6'H x 20'-5"L) STANDARD FLAMMABLE STORAGE CABINET ADJ. HT ALUM. GANTRY CRANE 12'W x 9'-6"-12'H PORTABLE GENERATOR SERIES 2 DOUBLE BANK ROLLER CABINET METAL TOOL CHEST 57"x28" 6 PACKING TABLE 96"x36" METAL LAB STOOL W/BACKREST (COLOR GRAY) STUDENT LOCKERS 6 LONG HANDLED TOOL RACK 4 ALL-WELDED STORAGE LOCKER W/ 2 CENTER SHELVES (72"Wx36"Dx78"H) 6	TRUTOUCH 86" 4K INTERACTIVE DISPLAY JOEY 30 CART 1 LOCKNCHARGE WOOD WORKING/SMALL ENGINE REPAIR EQUIPMENT PROVIDED AND INSTALLED BY G.C. Description Count Manufacturer BADASS WELDING AND FABRICATION TABLE, 96IN x 36IN 12 BADASS WORKBENCH HAND WINCH LIFT TRUCK - 350 LB CAPACITY 1 VESTIL (via NORTHERN TOOL) JOEY 30 CART 1 LOCKNCHARGE DESKTOP DOCUMENT CAMERA 11 ELMO 11 PANEL FIRE RESISTANT ROOM DIVIDER (6"H x 20"-5"L) STANDARD FLAMMABLE STORAGE CABINET 1 ULINE ADJ. HT ALUM. GANTRY CRANE 12"W x 9"-6"-12"H 1 PORTABLE GENERATOR SERIES 2 DOUBLE BANK ROLLER CABINET 1 U.S. GENERAL METAL TOOL CHEST 57"X28" 6 MATCO TOOLS PACKING TABLE 96"X36" 1 ULINE METAL LAB STOOL W/BACKREST (COLOR GRAY) STUDENT LOCKERS 6 HALLOWELL LONG HANDLED TOOL RACK 4 WESTWARD/GRAINGER

CLASSROOM EQUIPMENT SUPPLIED AND INSTALLED BY G.C.

WELDING EQUIPMENT PROVIDED AND INSTALLED BY G.C.						
Mark	Description	Count	Manufacturer	Model		
EAC	EXISTING AIR COMPRESSOR	1				
GSC	GARMENT STORAGE CENTER WITH BASKETS - 52x18x72	1	ULINE	H-2450		
HSP	20 TON AIR/HYDRAILIC SHOP PRESS	1	SUNNEX TOOLS	T9FB1915420		
JBS	BAND SAW	1	JET via GRAINGER	414468		
MB	MOBILE WELDER WITH REMOTE START/STOP	1	MILLER (FROM WELSCO)	BOBCAT 225 (MIL 907791001)		
MBR	MOBILE BAR AND PIPE RACK	2	ULINE	H-4543		
MM	MILLER MULTIMATIC 215	6	MILLER (FROM WELSCO)	MULTIMATIC 215 MIL907693		
MWC	RUNNING GEAR/CART: FOR 7 IN MAX CYLINDER DIA	6	MILLER ELECTRIC (FROM WELSCO)	301239		
PCT	PLASMA CUTTING TABLE W/REPLACEMENT SLATS (32"H x 21"W x 30"L)	6	PRIMEWELD			
STC	SAF-T-CART PLASMA TORCH CART	2	SAF-T-CART (via WELSCO)	MM-8		
WS	6'x6' WELDING SCREEN, SHADE 8	8	ULINE	H-4610		

	EVENING/WEEKEND BIKE REPAIR EQUIPMENT SUPPLIED & INSTALLED BY G.C.								
Mark	Description	Count	Manufacturer	Model					
		Τ.							
AC	26 GALLON 175 PSI ULTRA QUIET VERTICAL AIR COMPRESSOR	1	FORTRESS	FT26175					
DC	DESKTOP DOCUMENT CAMERA	1	ELMO	ELMO TT12W					
ITB	SERIES 2 DOUBLE BANK ROLLER CABINET	1	U.S. GENERAL	64864/64866					
MTB	SERIES 2 SINGLE BANK ROLLER CABINET	3	U.S. GENERAL	SKU 64162/64163					
SWD	PACKING TABLE 96"x36"	7	<varies></varies>	<varies></varies>					
TSV	6" SWIVEL VISE WITH ANVIL	6	CENTRAL MACHINERY/HARBOR FREIGHT	SKU 59104					
TTG	3" BENCH GRINDER WITH FLEX SHAFT	6	CENTRAL MACHINERY/HARBOR FREIGHT	SKU 43533					

N	
	CLIENT SUPLLIED/G.C. INSTALLED
N	Mark Comments

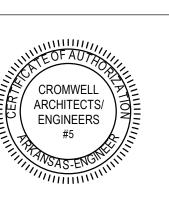
CLIENT ORDERED SIMULATORS DIRECTLY FROM SIMLOG. G.C. TO INSTALL PER COORDINATION WITH CLIENT

G.C. TO COORDINATE WITH CLIENT ON FINAL PLACEMENT

NWACC ITSTI BIKE LAB
THWEST ARKANSAS COMMUNITY COLLEGE

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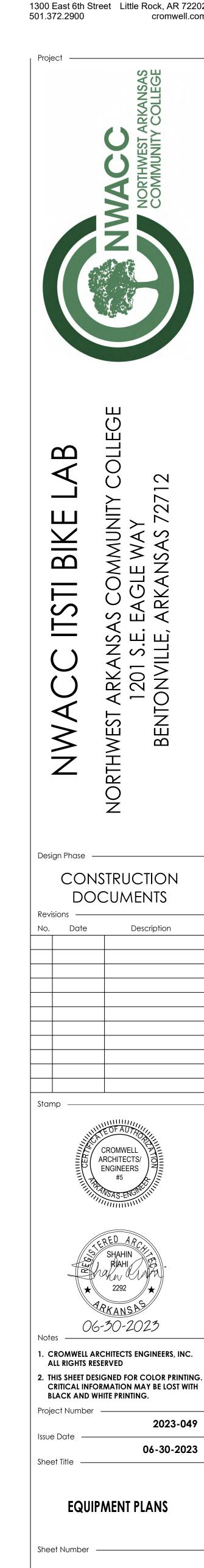
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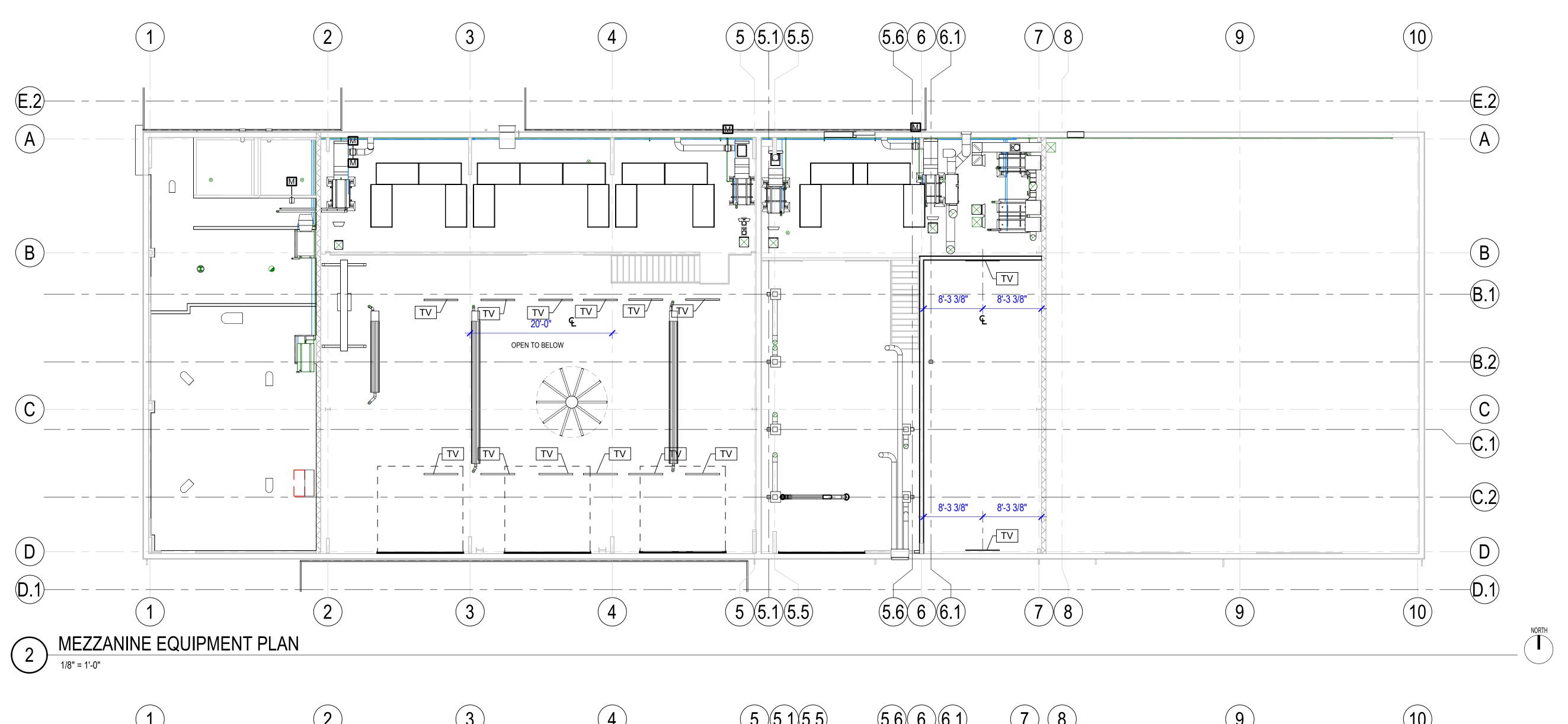
2023-049
Issue Date 06-30-2023

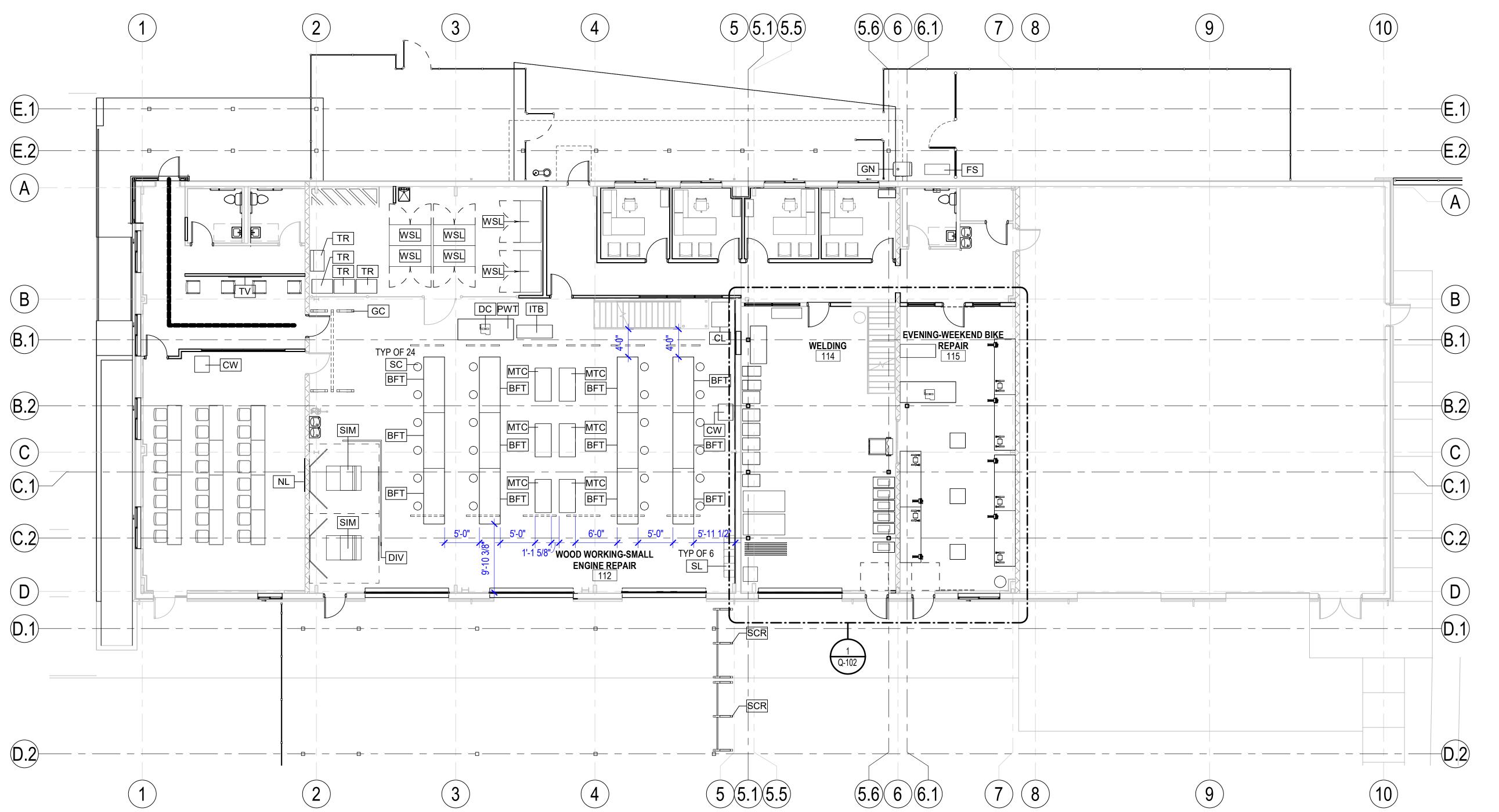
EQUIPMENT SCHEDULE

Sheet Number —

Q-100







FIRST FLOOR EQUIPMENT PLAN

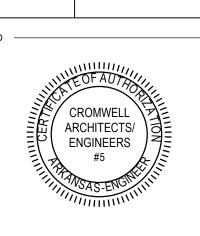
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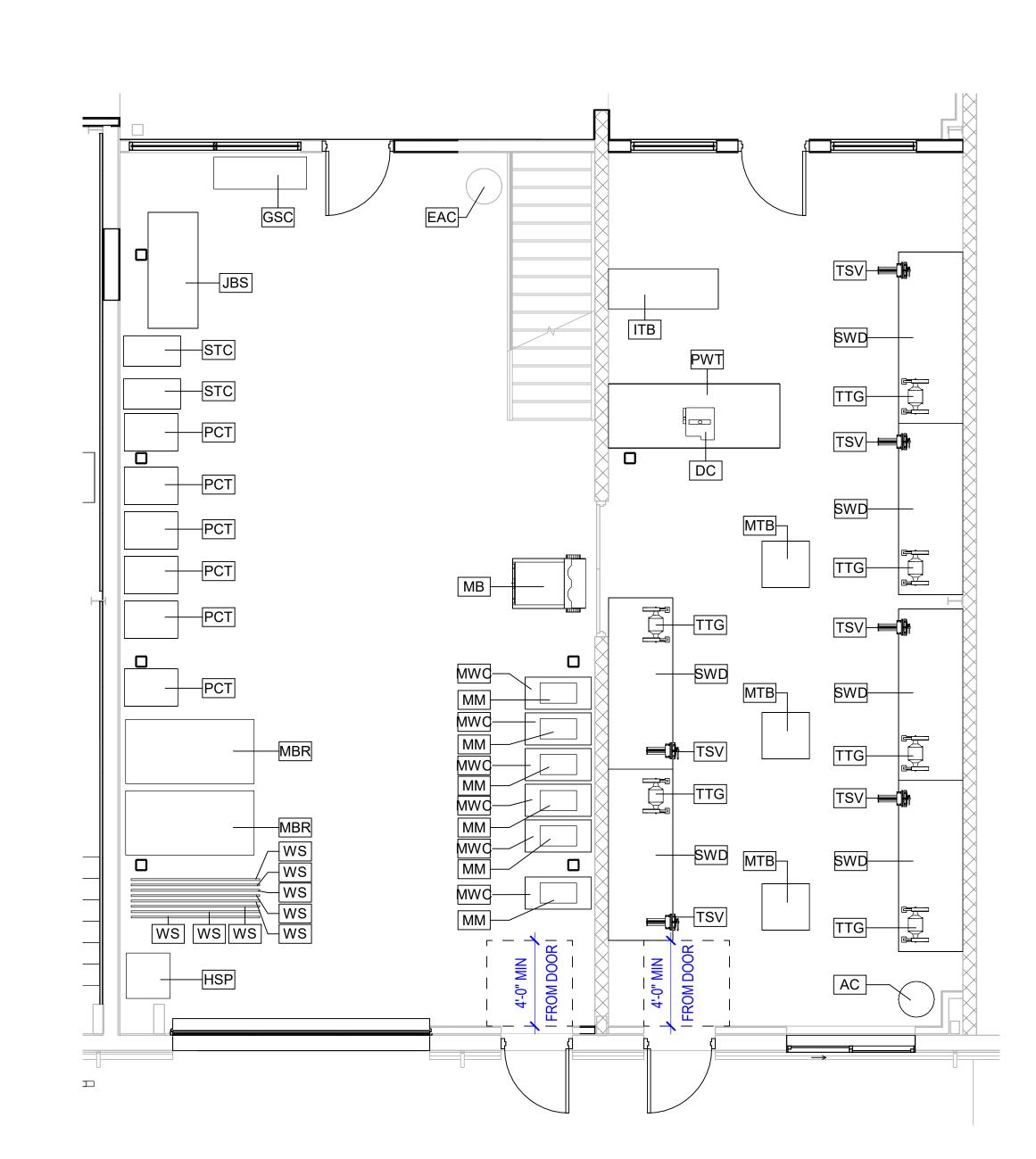
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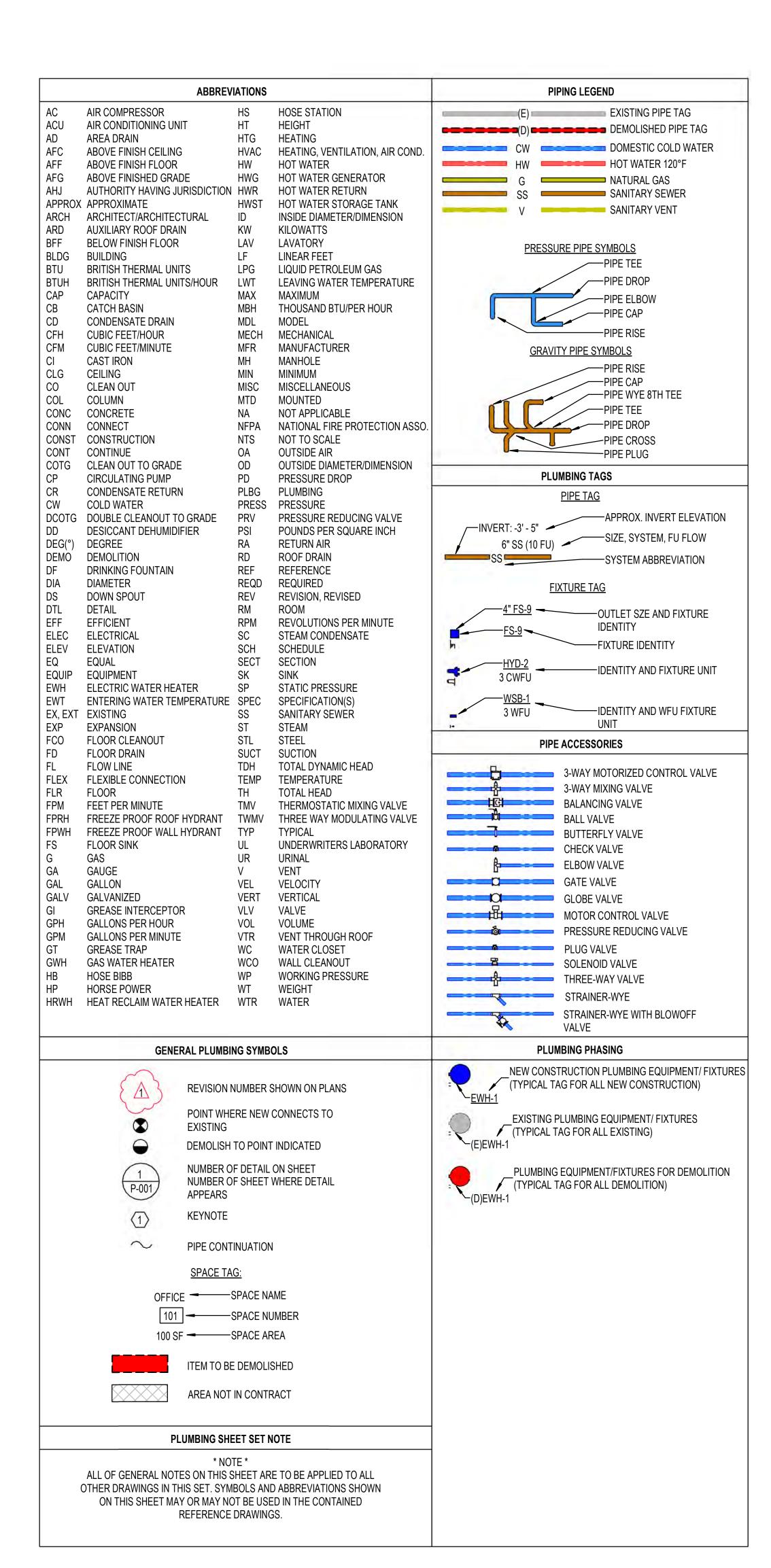
ENLARGED EQUIPMENT PLAN

Sheet Title ———

Sheet Number ——

Q-102





PLUMBING GENERAL NOTES

- 1 ALL PLUMBING SYSTEMS SHALL BE INSTALLED AS PER SPECIFICATIONS AND GOVERNING CODES.
- 2 ALL DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRIC RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT. CONTRACTOR SHALL NOT SCALE DRAWINGS. INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE-VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH. THE CONTRACTOR SHALL SUBMIT A REQUEST FOR INFORMATION (RFI) IF INFORMATION CONFLICTS. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND OTHER DRAWINGS FOR COMPLETE INFORMATION.
- 3 BY NECESSITY, THESE DRAWINGS REFLECT A SYSTEM DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS, THE SELECTION OF WHICH HAS IMPACTED THE DESIGNS OF OTHER TRADES (HVAC, ELECTRICAL, STRUCTURAL ETC.). IF ALTERNATE MANUFACTURERS, FUEL SOURCES, SIZES, OR MODEL NUMBERS ARE SUBMITTED OR BID, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS TO COORDINATE ALL DIFFERENCES PRIOR TO BID. NO EXTRAS WILL BE ALLOWED FOR CHANGES REQUIRED TO OTHER TRADES IF ALTERNATE EQUIPMENT IS BID OR INSTALLED AT THE CONTRACTORS OPTION.
- 4 EXCEPT WHERE MODIFIED BY SPECIFIC NOTATION TO THE CONTRARY, IT SHALL BE UNDERSTOOD THAT THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS OR BOTH, CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, REGARDLESS OF WHETHER OR NOT THIS
- INSTRUCTION IS EXPLICITLY STATED AS PART OF THE INDICATION OR DESCRIPTION.

 5 CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
- 6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; i.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, FIRE PROTECTION AND CIVIL PRIOR TO CONSTRUCTION.
- 7 THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; i.e., SANITARY SEWER, STORM DRAIN, FIRE PROTECTION, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE UTILITY DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
- 8 PROVIDE ISOLATION VALVES AT EACH FIXTURE GROUP OR BATTERY OF FIXTURES IN THE DOMESTIC CW, HW, HWR AND GAS PIPING. VALVES SHALL BE EASILY ACCESSIBLE. WHERE HARD CEILINGS ARE LOCATED, VALVES SHALL BE ACCESSED THROUGH ACCESS PANELS. ACCESS PANELS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO CONSTRUCTION.
- 9 PROVIDE STOP VALVES AT ALL PLUMBING FIXTURES ON BOTH HOT AND COLD WATER SUPPLY LINES. VALVES, ESCUTCHEONS, FITTINGS, ETC., SHALL BE CHROME PLATED AND INSTALLED TIGHT TO WALL. WHERE PIPING IS EXPOSED, CHROME PLATED PIPE SHALL BE USED.
- 10 ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
- 11 SLOPE 2-1/2" AND SMALLER DRAIN WASTE AND VENT (DWV) LINES AT MIN, (2%) 1/4" FALL PER FT., 3" TO 6" DWV LINES AT MIN. (1%) 1/8" FALL PER FT. AND 8" AND LARGER DWV LINES AT MIN. (.5%) 1/16" FALL PER FT. SANITARY SEWER AND WATER SHALL BE A MINIMUM OF 10' APART OR THE DOMESTIC WATER SERVICE SHALL BE 12" ABOVE THE TOP OF THE SEWER LINE, AT ITS HIGHEST POINT, IF PLACED IN SAME TRENCH.
- 12 PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- 13 REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
- 14 PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 50 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45°, AND ALL VERTICAL STACKS AT A HEIGHT OF 30" ABOVE FINISH FLOOR AT THE BASE OF EACH STACK.
- 15 WHERE WATER PRESSURES EXCEED 70 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) CONFORMING TO ASSE 1003 WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 70 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
- 16 ALL PIPING PENETRATIONS OF THE RATED CEILING AND WALL MUST BE MADE WITH METAL PIPE OR UL LISTED APPROVED DEVICES. FIRE STOP ALL PIPE PENETRATIONS THRU RATED WALLS. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS, RATINGS AND FIRE STOPPING DETAILS.
- 17 DO NOT ROUTE ANY PIPING OVER ELEC. ROOMS, COMPUTER ROOMS, OR ELEC. PANELS.
- 18 INSTALL AN AGA LISTED NATURAL GAS COCK, DIRT LEG AND UNION IMMEDIATELY UPSTREAM OF EQUIPMENT CONNECTIONS. AS NOTED ON DRAWINGS PROVIDE AN AGA LISTED VENT LIMITING GAS REGULATOR. GAS REGULATORS SHALL NOT BE INSTALLED IN AIR PLENUMS (SEE HVAC PLANS FOR AIR PLENUM LOCATIONS). PAINT ALL NATURAL GAS PIPING WITH TWO COATS OF OIL BASED YELLOW PAINT IN ALL LOCATIONS NOT SPECIFIED BY ARCHITECT.
- 19 ALL DOMESTIC WATER PIPING ROUTED IN AREAS SUBJECT TO FREEZING TEMPERATURES SHALL BE ROUTED BELOW INSULATION AND WITHIN THE HEATED ENVELOPE OF THE BUILDING. WHERE PIPING CAN NOT BE ROUTED BELOW INSULATION, PIPING SHALL HAVE 5 WATT/FT HEAT TRACING ATTACHED. SEE ARCHITECTURAL DRAWINGS FOR INSULATION PLACEMENT AND DETAILS. COORDINATE ELECTRICAL REQUIREMENTS WITH ELECTRICAL CONTRACTOR AND ENGINEER.
- 20 UNLESS OTHERWISE INDICATED, DO NOT ROUTE WATER PIPING IN EXTERIOR WALLS. WHEN ROUTED IN EXTERIOR WALLS, CAREFULLY POSITION WATER PIPING ON THE HEATED SIDE (INTERIOR SIDE) OF THE WALL INSULATION.
- 21 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.
- 22 ALL STORM DRAIN, CONDENSATE DRAIN, SEWER & VENT PIPING SHALL BE RODDED AND CLEANED AT END OF CONSTRUCTION. ALL TRAPS SHALL BE CLEANED AND PRIMED AT END OF CONSTRUCTION.
- 23 ALL PIPE DROPS FROM CEILING PLENUM TO FLOOR SHALL BE MADE IN FURROUTS AT COLUMNS, IN WEB OF BEAMS AT COLUMNS OR IN WALLS. PIPING SHALL BE CONCEALED UNLESS APPROVED BY ARCHITECT.
- 24 PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; i.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
- 25 BELOW SLAB WATER PIPE TO BE TYPE K SOFT DRAWN COPPER WITHOUT FITTINGS OR JOINTS. SLEEVE IN ENTIRETY WITH ARMAFLEX OR APPROPRIATE POLYETHYLENE SLEEVE MATERIAL.
- 26 PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- 27 INSULATE ALL WATER, CONDENSATE, STORM DRAIN PIPING (VERTICAL AND HORIZONTAL) AND ROOF DRAIN BODIES ABOVE FINISH FLOOR. SEE SPECIFICATIONS FOR THICKNESS SCHEDULE.
- 28 INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
- 29 ALL EXPOSED MATERIALS WITHIN RETURN AIR PLENUMS (EXISTING AND NEW) SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 OR A SMOKE-DEVELOPED INDEX OF NOT MORE THAN 50, AS DETERMINED IN ACCORDANCE WITH ASTM E84 AND U.L. LISTINGS. IF ANY MATERIALS (EXISTING OR NEW) DO NOT MEET THESE STANDARDS, THE ITEMS SHALL BE ENCLOSED IN A GYPSUM-BOARD ENCLOSURE, BE REPLACED WITH PLENUM RATED MATERIALS (I.E. CAST IRON), OR BE WRAPPED WITH AN APPROVED FIRE RATING MATERIAL, SUCH AS 3M FYRE WRAP. PLASTIC PIPING (PVC, ABS, AND CPVC) IS NOT APPROVED TO BE INSTALLED WITHIN RETURN AIR PLENUMS. BY NECESSITY, WE HAVE NOTED AS MANY AREAS AS POSSIBLE ON THE PLANS WHERE THESE CONDITIONS OCCUR, BUT IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE EXISTING CONDITIONS (WHETHER SHOWN ON THE PLANS OR NOT) AND INCLUDE THE REPLACEMENT/WRAPPING OF THESE ITEMS IN THE BID PRICE (SEE NOTE 7 ABOVE). COORDINATE RETURN AIR PLENUM LOCATIONS AND ANY NOTED
- DISCREPANCIES FROM THE PLANS WITH MECHANICAL ENGINEER PRIOR TO BID.

 30 FLOOR DRAINS IN MECHANICAL ROOMS ARE SHOWN FOR GENERAL LOCATION ONLY. FLOOR DRAINS SHALL BE ACCESSIBLE AND SHALL BE VERIFIED WITH EQUIPMENT LAYOUT FOR INTERFERENCES.
- 31 AN APPROVED TRAP SEAL DEVICE CONFORMING TO ASSE 1072 SHALL BE INSTALLED AT ALL FLOOR AND HUB DRAINS. ALL DRAINS SHALL HAVE DEEP SEAL TRAPS, 4" DEEP SEAL MINIMUM. INSTALL TRAP GUARD DEVICES PER MANUFACTURER'S INSTRUCTIONS.
- 32 DOMESTIC WATER SERVICE PIPING AND FITTINGS; E.G., CHECK VALVES, RPZA, SHUT-OFF VALVES, STRAINERS, PRESSURE REGULATORS, ETC. SHALL COMPLY WITH NSF 61 CRITERIA. ALL CAST IRON EQUIPMENT IS TO BE INTERNALLY EPOXY COATED.

ADA REQUIREMENTS

WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17"-19" MEASURED FROM THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG OR RETURN TO A LIFTED POSITION THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREAS NO MORE THAN 29" ABOVE FINISHED FLOOR. SEE ARCHITECTURAL SHEETS FOR GRAB BAR LOCATIONS.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE FINISHED FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM THE BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE FINISHED FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

FAUCETS-SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 lbf.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO MORE THAN 34" ABOVE FINISHED FLOOR. PROVIDE A CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6-1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER SINKS SHALL BE PROVIDED WITH INSULATING FOAM INSERT, COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

DRINKING FOUNTAINS-WATER COOLERS: WHEN INSTALLING A HI-LO ACCESSIBLE FOUNTAIN MOUNT THE LOWEST SPOUT AT NO MORE THAN 36" ABOVE FINISHED FLOOR AND THE HIGH SPOUT AT 40" ABOVE FINISHED FLOOR. SPOUT SHALL BE AT THE FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A WATER FLOW OF AT LEAST 4" HIGH. THE CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE THE CONTROLS SHALL BE NO GREATER THAN 5 lbf. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR OF 27" HIGH, 30" WIDE, AND 17"-19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" INTO WALKWAYS.

DEMOLITON / RENOVATION NOTES

- 1 IN THESE GENERAL NOTES, "PLUMBING" SHALL REFER TO, BUT NOT BE LIMITED TO SYSTEMS, COMPONENTS AND EQUIPMENT FOR [HOT WATER, HOT WATER RETURN, COLD WATER, SEWER, SEWER VENTS, STORM SEWER, CONDENSATE WASTE, MEDICAL GAS, MEDICAL GAS OUTLETS, MEDICAL GAS EQUIPMENT, ISOLATION VALVES, BALANCING VALVE, REGULATORS, EQUIPMENT AND PIPING, ETC.]
- 2 CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO: * PIPE SYSTEMS, SIZES AND LOCATIONS.* VALVE LOCATIONS.* EQUIPMENT CONDITIONS, CONNECTIONS AND LOCATIONS.* BALANCING VALVES.* HAMMER ARRESTORS.
- 3 ALL EXISTING PLUMBING EQUIPMENT AND PIPING ADJACENT TO AND/OR IN AREAS OF DEMOLITION SHALL BE PROPERLY IDENTIFIED FOR LOCATION, SIZE, CONDITION AND SYSTEM(S) OPERATION. ALL SYSTEMS SHALL BE COMPARED TO THE PLUMBING DRAWINGS AND EXISTING RECORD DRAWINGS (EXISTING RECORD DRAWINGS SHALL BE REQUESTED FROM [OWNER OR GOVERNMENT]) AND DOCUMENT ALL VARIATIONS. AFTER THE EXISTING SYSTEMS ARE INVESTIGATED AND DOCUMENTED, THE CONTRACTOR SHALL CAP AND/OR REMOVE ALL PLUMBING EQUIPMENT AND PIPING BACK TO POINT OF DEMOLITION BOUNDARY AS NOTED ON PLANS. DEMOLITION BOUNDARY AND PHASING SHALL BE COORDINATED WITH ARCHITECT AND [OWNER OR GOVERNMENT] PRIOR TO CONSTRUCTION. ALL BRANCHES AND DROPS NOT REMOVED SHALL BE CAPPED AND PREPARED FOR FUTURE RECONNECTION WHEN NEW EQUIPMENT AND/OR FIXTURES ARE INSTALLED, AS REQUIRED.
- 4 COORDINATE AND SCHEDULE THE REMOVAL OF EXISTING PLUMBING AND SYSTEM SHUT-DOWNS WITH OWNER, ARCHITECT AND MAINTENANCE PERSONNEL PRIOR TO CONSTRUCTION.
- 5 MAINTAIN EXISTING PLUMBING WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
- 6 EXISTING PLUMBING EQUIPMENT BEING REMOVED AND NOT RE-USED, SHALL REMAIN THE PROPERTY OF THE OWNER (AS APPROVED BY THE OWNER) AND SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY THE GOVERNMENT. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 7 UPON COMPLETION OF NEW ADDITION, NEW PLUMBING EQUIPMENT AND PIPING WILL BE INSTALLED AS SHOWN ON RENOVATED PLUMBING PLANS. RECONNECT ALL EXISTING BRANCHES AND EQUIPMENT TO NEW SYSTEM PIPING AS REQUIRED FOR OPERATION.
- 8 REPLACE AND/OR PATCH TO MATCH EXISTING, ANY COMPONENTS OF THE EXISTING PLUMBING SYSTEMS TO FACILITATE ITS INSTALLATION WITHIN THE NEW RENOVATED AREAS. SUCH ITEMS MAY INCLUDE, BUT NOT BE LIMITED TO, FITTINGS, SUPPORTS, NEW MOUNTING SYSTEMS, NEW ACCESS DOORS, ETC.
- 9 DAMAGED, OR INOPERABLE PLUMBING COMPONENTS INSPECTED PRIOR TO DEMOLITION AND DETERMINED NOT SUITABLE FOR REUSE, THAT WILL EFFECT THE INTEGRITY OF THE OPERATION OF THE PLUMBING SYSTEM, SHALL BE REPLACED WITH NEW OF LIKE, OR EQUAL QUALITY.
- 10 PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND PLUMBING SYSTEM PENETRATIONS.
- 11 REFER TO HVAC PLANS FOR EXTENT OF WORK RELATING TO PLUMBING PIPING CONNECTING TO HVAC EQUIPMENT TO BE REMOVED OR RELOCATED.
- 12 THE ADJACENT SPACES WILL CONTINUE TO OPERATE DURING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE WITH OWNER TO INSURE THAT PLUMBING CONSTRUCTION DOES NOT IMPACT HOURS OF OPERATION. SEE ARCHITECTURAL SHEET FOR ADDITIONAL NOTES AND INSTRUCTIONS.



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> NORTHWEST ARKANSAS COMMUNITY COI 1201 S.E. EAGLE WAY BENTONVILLE, ARKANSAS 72712

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CROMWELL ARCHITECTS/ ENGINEERS

#5



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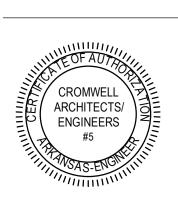
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PLUMBING LEGEND AND NOTES

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PLUMBING DEMO PLAN

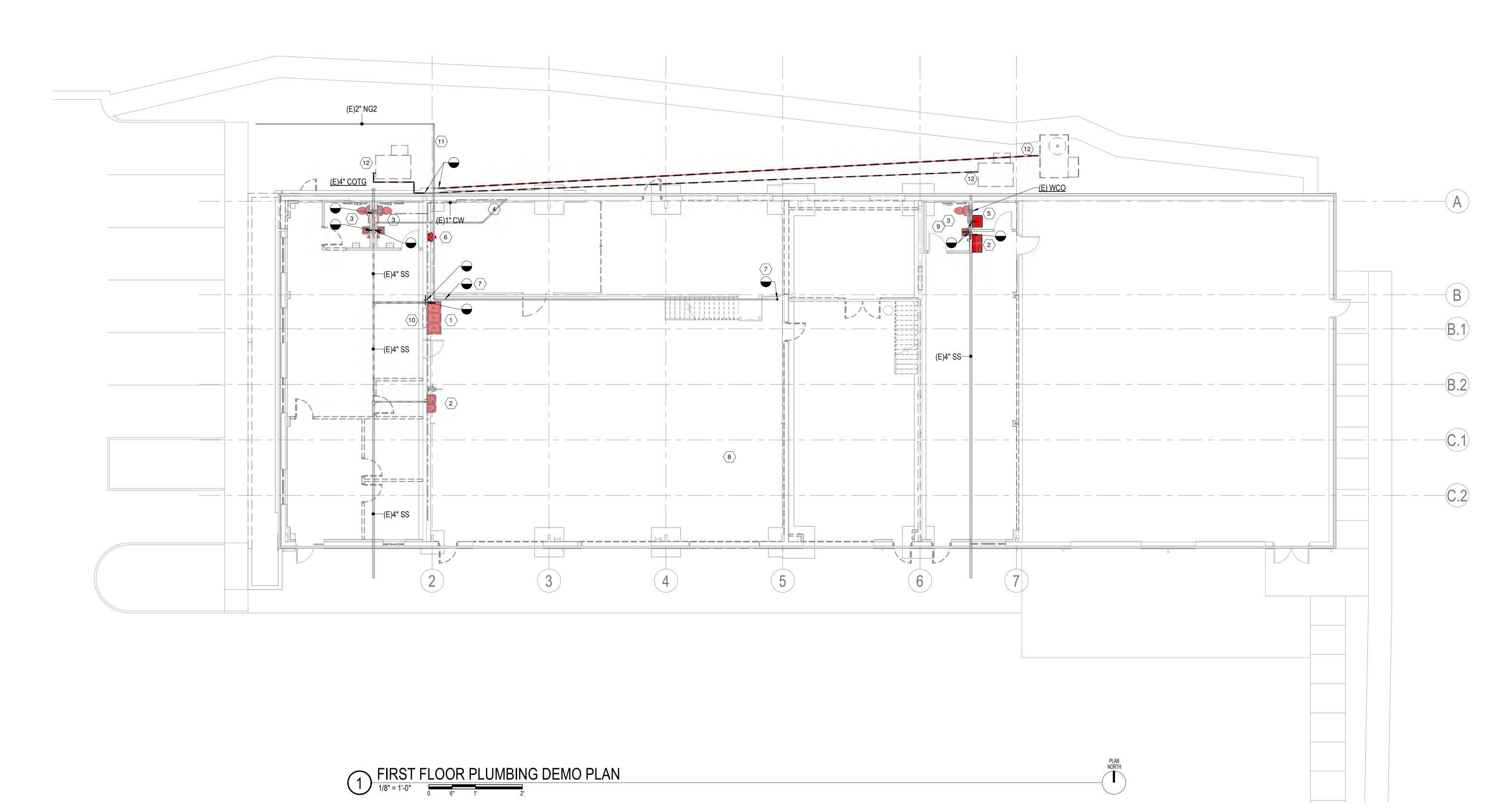
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PD101



- 1 REMOVE EXISTING THREE COMPARTMENT SINK AND HB AND CAP ALL ASSOCIATED PIPING BEHIND A FINISHED SURFACE.
- 2 REMOVE EXISTING ELECTRIC WATER COOLER AND REPLACE WITH NEW.
- 3 REMOVE EXISTING WATER CLOSET AND LAVATORY AND REPLACE WITH NEW. REUSE EXISTING DRAIN AND SUPPLY PIPING OR MODIFY AS REQUIRED. CLEAN AND POLISH EXISTING FLOOR DRAIN.
- 4 REMOVE EXISTING UTILITY BOX. EXISTING DRAIN, VENT, AND SUPPLY PIPING TO BE REUSED FOR NEW JANITOR'S SINK.
 5 REMOVE EXISTING JANITOR'S SINK AND CAP ALL ASSOCIATED PIPING BEHIND A FINISHED SURFACE.
- 6 REMOVE EXISTING JANITOR'S SINK AND CAP ALL ASSOCIATED PIPING BEHIND A FINISHED SURFACE.
 PIPING BEHIND A FINISHED SURFACE.
- 7 REMOVE EXISTING GAS UNIT HEATER AND REMOVE GAS PIPING AND CAP.
- 8 REMOVE ALL EXISTING UNUSED COMPRESSED AIR PIPING. PATCH WALLS AS REQUIRED.
 9 REUSE EXISTING INSTANTENOUS WATER HEATER AT NEW LAVATORY IN MEN'S RESTROOM 103.
 WATER HEATER TO SERVE BOTH WOMEN'S AND MEN'S RESTROOM.
- 10 REMOVE EXISTING SINK AND CAP ALL ASSOCIATED PIPING BEHIND A FINISHED SURFACE.
- 11 RE-ROUTE OR PROTECT EXISTING GAS PIPING DURING CONSTRUCTION.
- 11 RE-ROUTE OR PROTECT EXISTING GAS PIPING DURING CONSTRUCTION.

 12 DISCONNECT EXISTING GAS PIPING FROM DEMOLISHED AHU. REMOVE OR ABANDON AND CAP.



FIRST FLOOR PLUMBING OVERALL PLAN

1/8" = 1'-0"

0
6"
1'
2'

CROMWELL

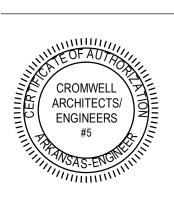
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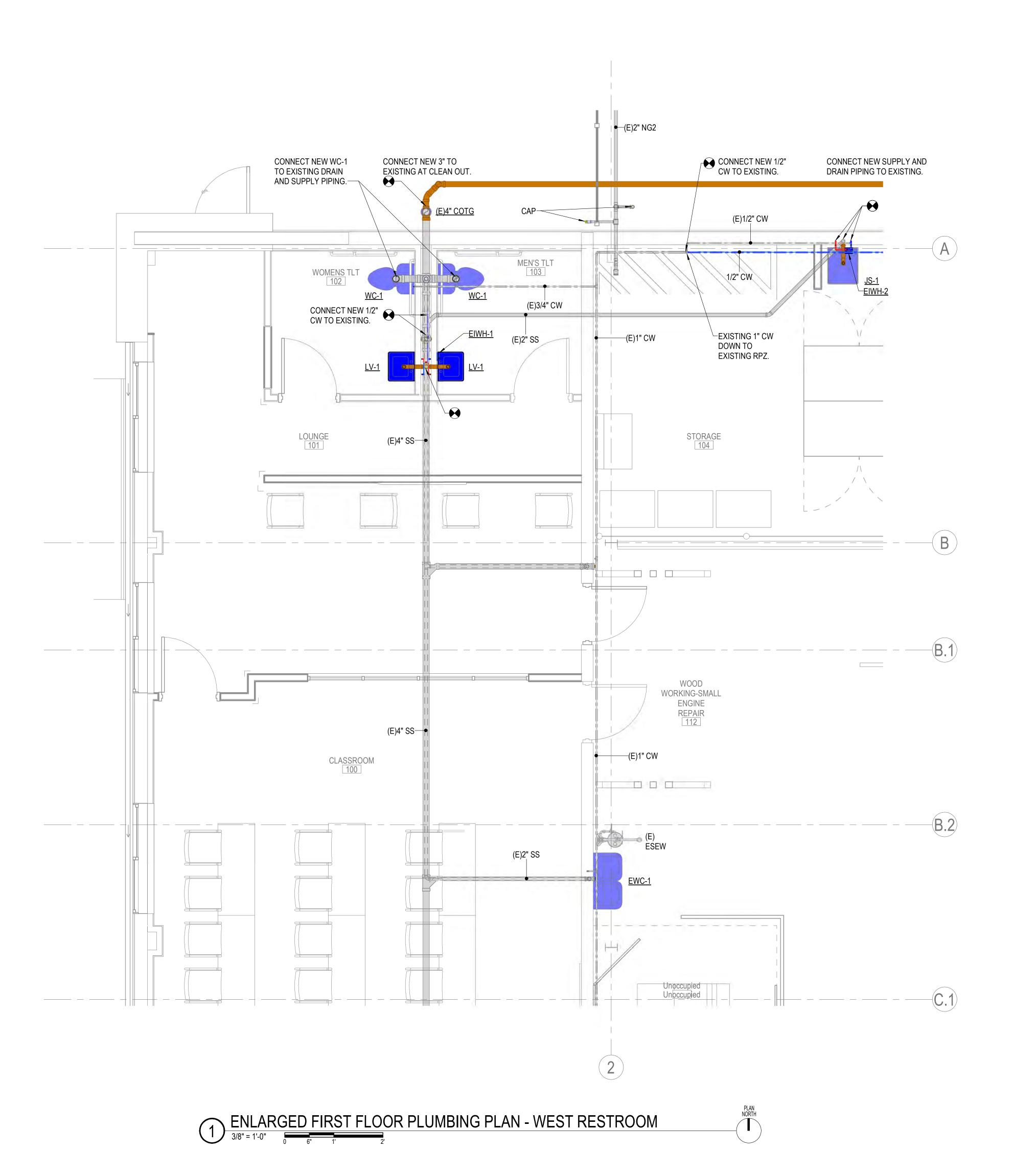
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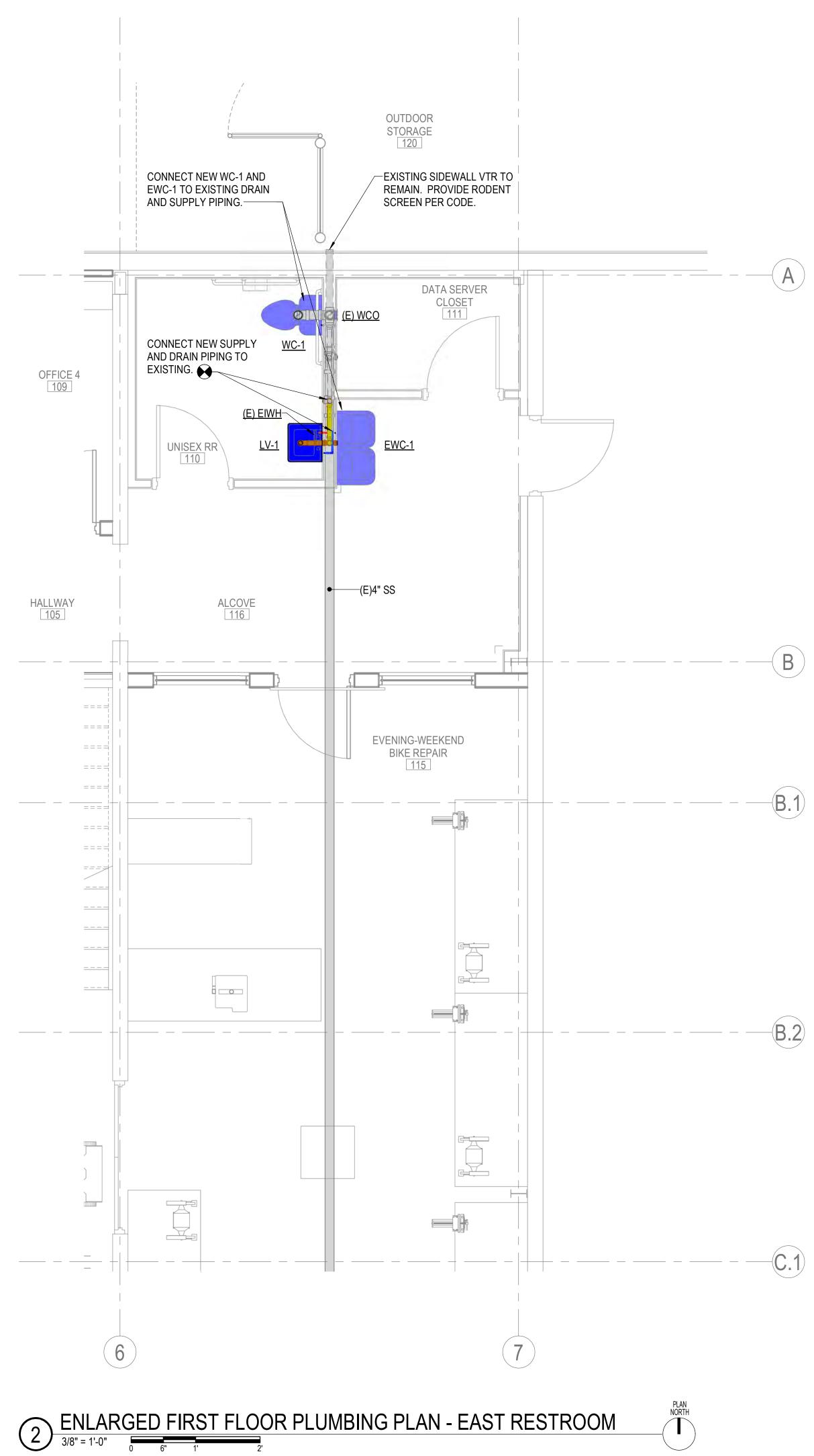
FIRST FLOOR PLUMBING
PLAN

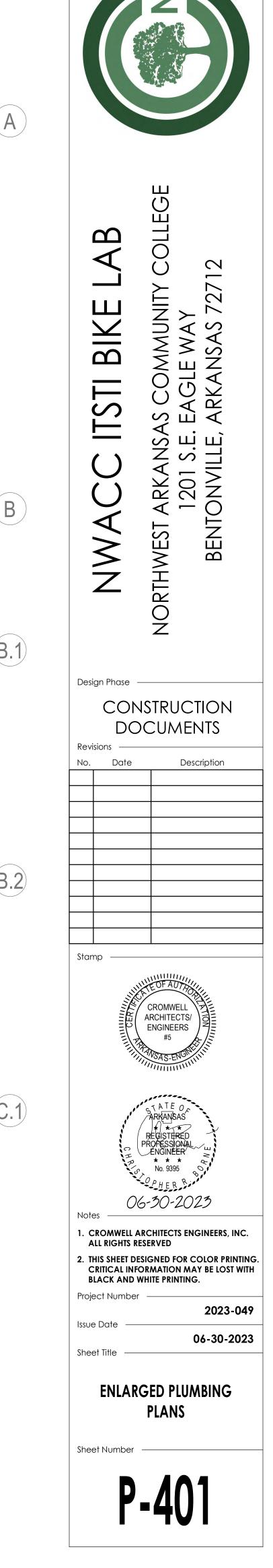
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P-101











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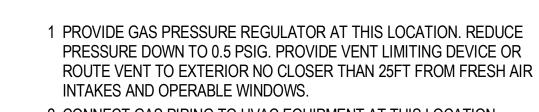
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ENLARGED PLUMBING GAS PLAN

Sheet Number ——

P-402

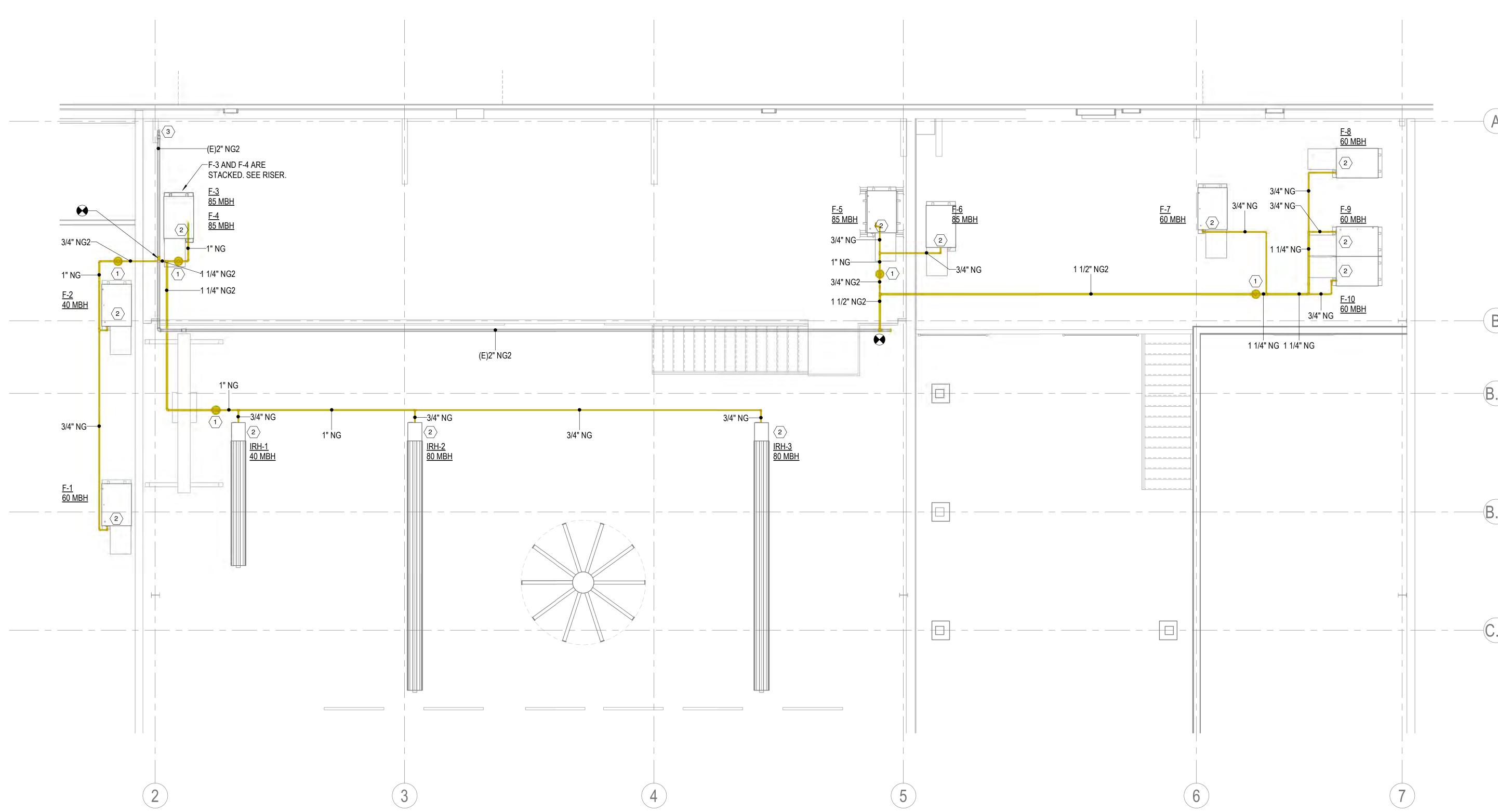


KEYED NOTES

INTAKES AND OPERABLE WINDOWS.

2 CONNECT GAS PIPING TO HVAC EQUIPMENT AT THIS LOCATION.
PROVIDE ISOLATION VALVE, DIRT LEG, AND FLEXIBLE CONNECTION AT
THE EQUIPMENT CONNECTION. VERIFY LOCATION OF GAS CONNECTION
AT EQUIPMENT PRIOR TO INSTALATION.

3 EXISTING GAS PIPING DOWN TO BELOW SLAB.



ENLARGED MEZZANINE GAS PLAN

1/4" = 1'-0"

0
6"
1'
2'



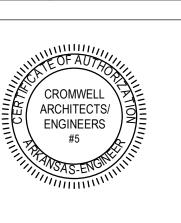


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ENLARGED PLUMBING COMPRESSED AIR PLAN

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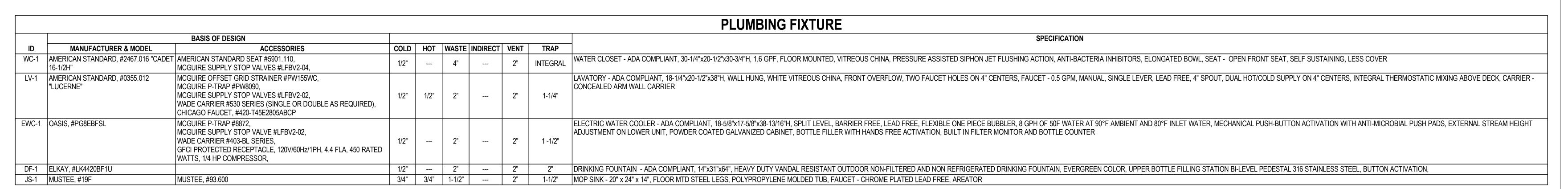
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PLUMBING SCHEDULES

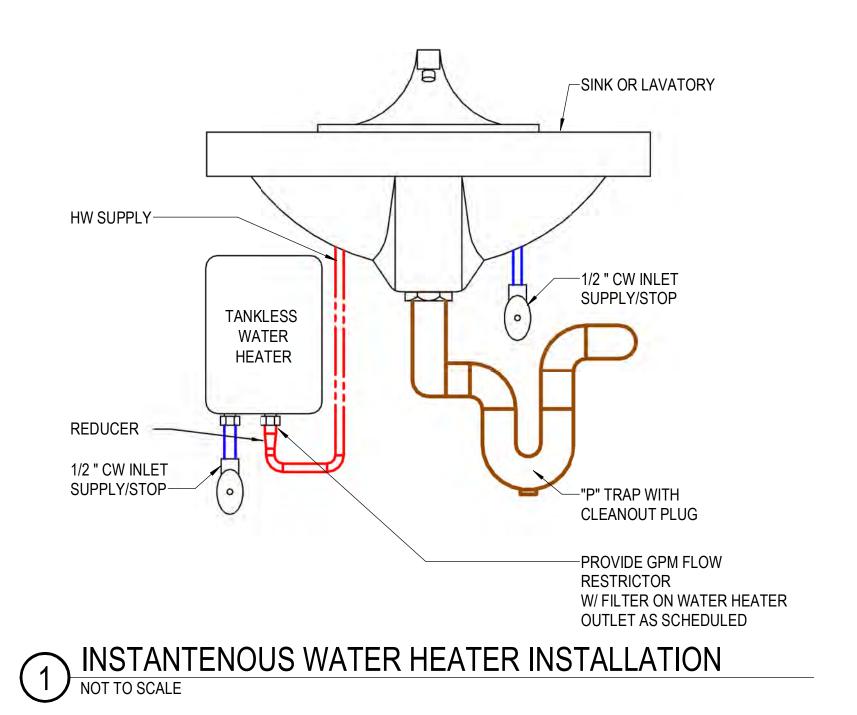
AND DETAILS

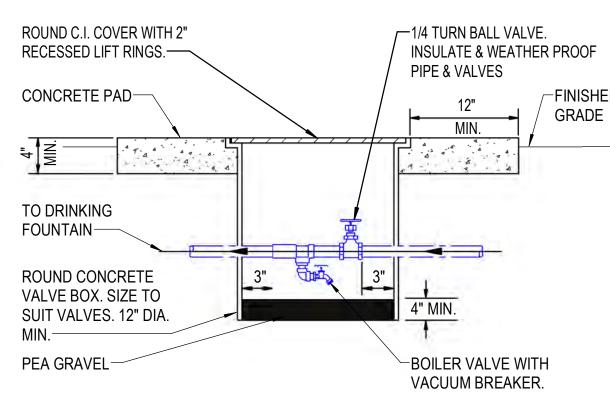
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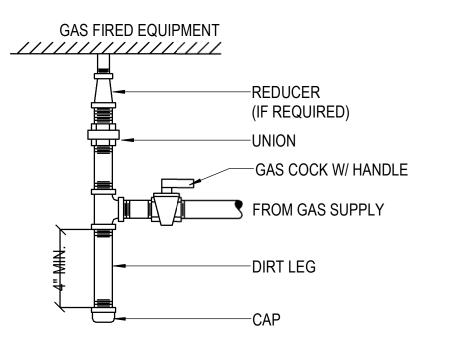
P-601

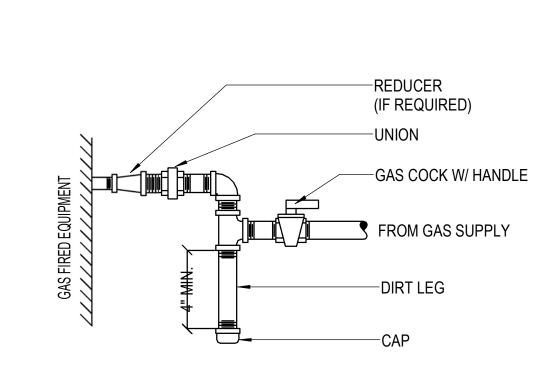


	PLUMBING EQUIPMENT										
ID BASIS OF DESIGN ELECTRICAL											
	MANUFACTURER & MODEL	UTILITY CONNECTIONS	CONNECTION TYPE VOLT	GE PHASE	POWER	AMPS					
EIWH-	EEMAX, #SPEX3512T	1/2"CW, 1/2"HW	HARDWIRED WITH 120 GFCI PROTECTION	V 1	3.5 kW	29	ELECTRIC TANKLESS WATER HEATER - 48°F RISE @ 0.5 GPM, 9-3/4"H x 5-1/4"W x 3"D, POINT-OF-USE, MULTIPLE LAVATORY, 0.2 GPM ACTIVATION FLOW, FACTORY SET TO 110°F, REPLACEABLE NI CHROME CARTRIDGE INSERT, MAXIMUM OPERATING PRESSURE OF 150 PSI, MICROPROCESSOR TEMPERATURE CONTROL WITH DIGITAL DISPLAY, POWER MODULATING CONTROLS, MOUNTS IN ANY ORIENTATION, HIGH TEMPERATURE LIMIT SWITCH, 1 YEAR PARTS WARRANTY, 3/8" COMPRESSION FITTINGS				
EIWH-	EEMAX, #SPEX8208T	1/2"CW, 1/2"HW	HARDWIRED WITH 208 GFCI PROTECTION	V 1	8.3 kW	40	ELECTRIC TANKLESS WATER HEATER - 57°F RISE @ 1 GPM, 9-3/4"H x 5-1/4"W x 3"D, POINT-OF-USE, 0.2 GPM ACTIVATION FLOW, FACTORY SET TO 120°F, FIELD ADJUSTABLE RANGE OF 70-140°F, REPLACEABLE NI CHROME CARTRIDGE INSERT, MAXIMUM OPERATING PRESSURE OF 150 PSI, MICROPROCESSOR TEMPERATURE CONTROL WITH DIGITAL DISPLAY, POWER MODULATING CONTROLS, MOUNTS IN ANY ORIENTATION, HIGH TEMPERATURE LIMIT SWITCH, 1 YEAR PARTS WARRANTY, 3/8" COMPRESSION FITTINGS				









-FROM GAS SUPPLY

REDUCER
(IF REQUIRED)

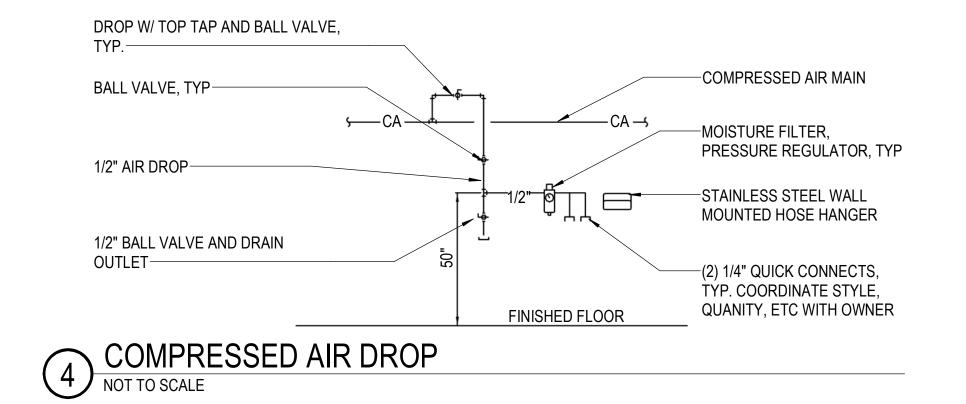
—GAS COCK W/ HANDLE

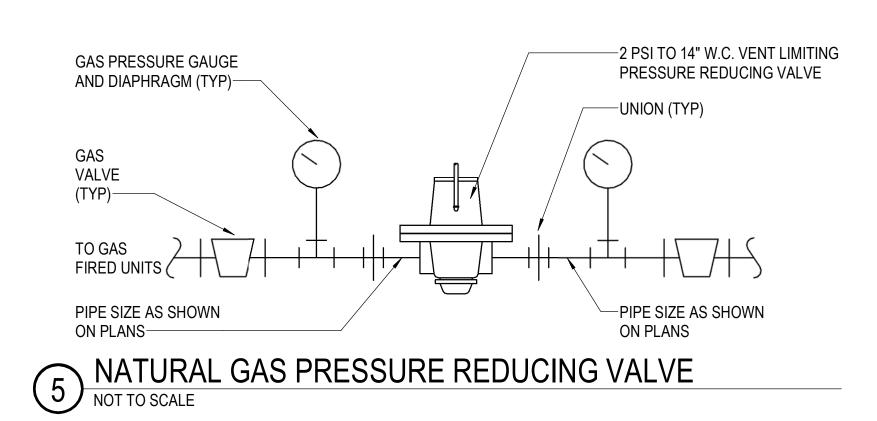
—DIRT LEG

WINTERIZATION VALVE BOX
NOT TO SCALE

TYPICAL GAS PIPING CONNECTIONS

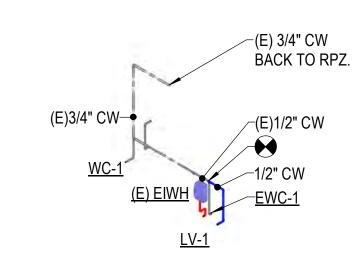
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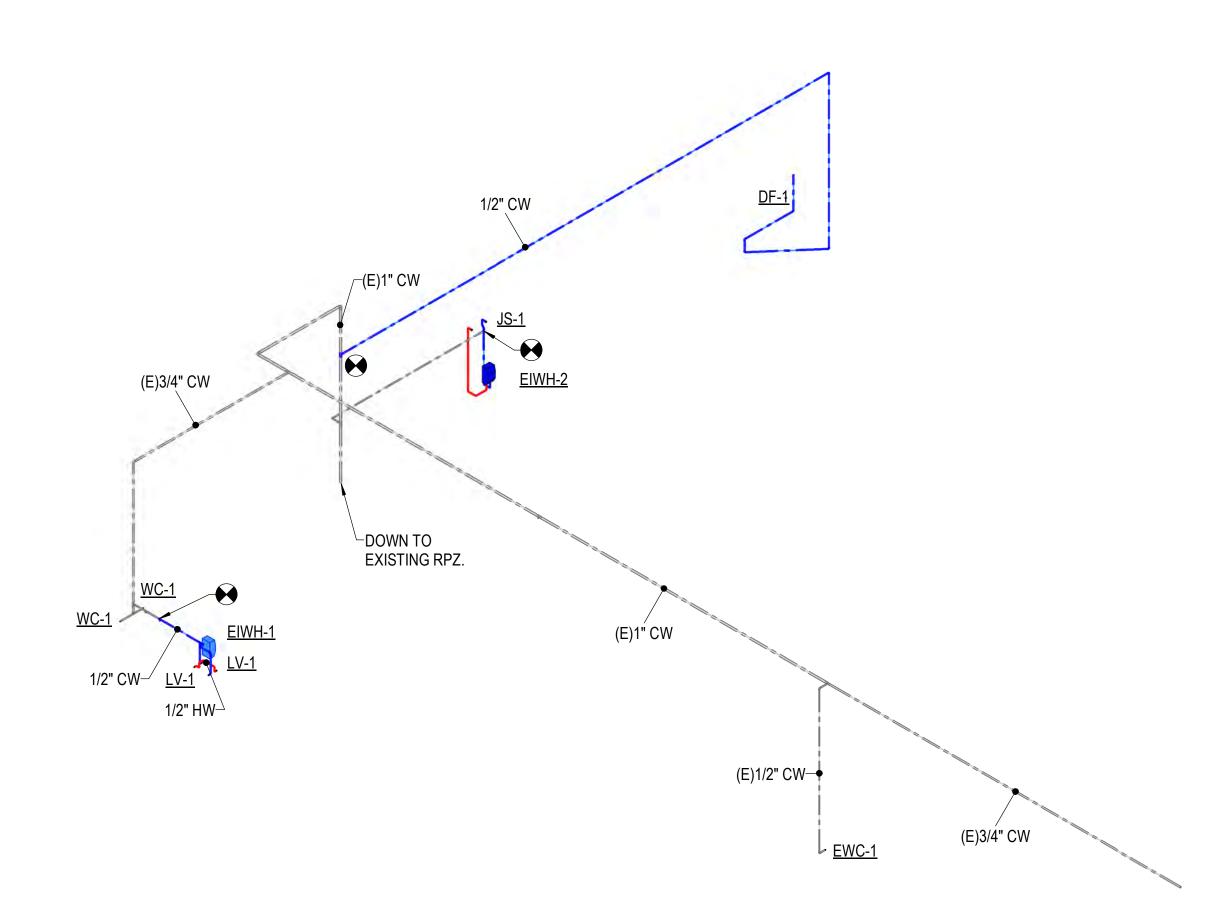




WATER HAMMER ARRESTOR											
P.D.I. UNITS A B C D E F											
FIXTURE UNITS	1-11	12-32	33-60	61-113	114-154	155-330					
WADE "SHOKSTOP" #4481 SERIES WATER HAMMER ARRESSTOR, SEAMLESS COPPER CONSTRUCTION, POLYPROPYLENE PISTON, (2) EPDM ORINGS, MNPT CONNECTION, MAX. PRESS. 350 PSI, MAX. TEMP. 250°F, PROVIDE PROPERLY SIZED WATER											
,		•		REAM OF ALL QUIC	•						

VLAVES, DISHWASHER, ICE MAKERS, SOLENOID VALVES, ETC.)





1 DOMESTIC WATER RISER
NOT TO SCALE





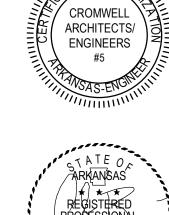
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DOMESTIC WATER RISER

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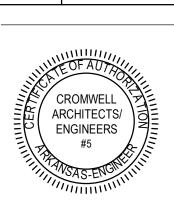




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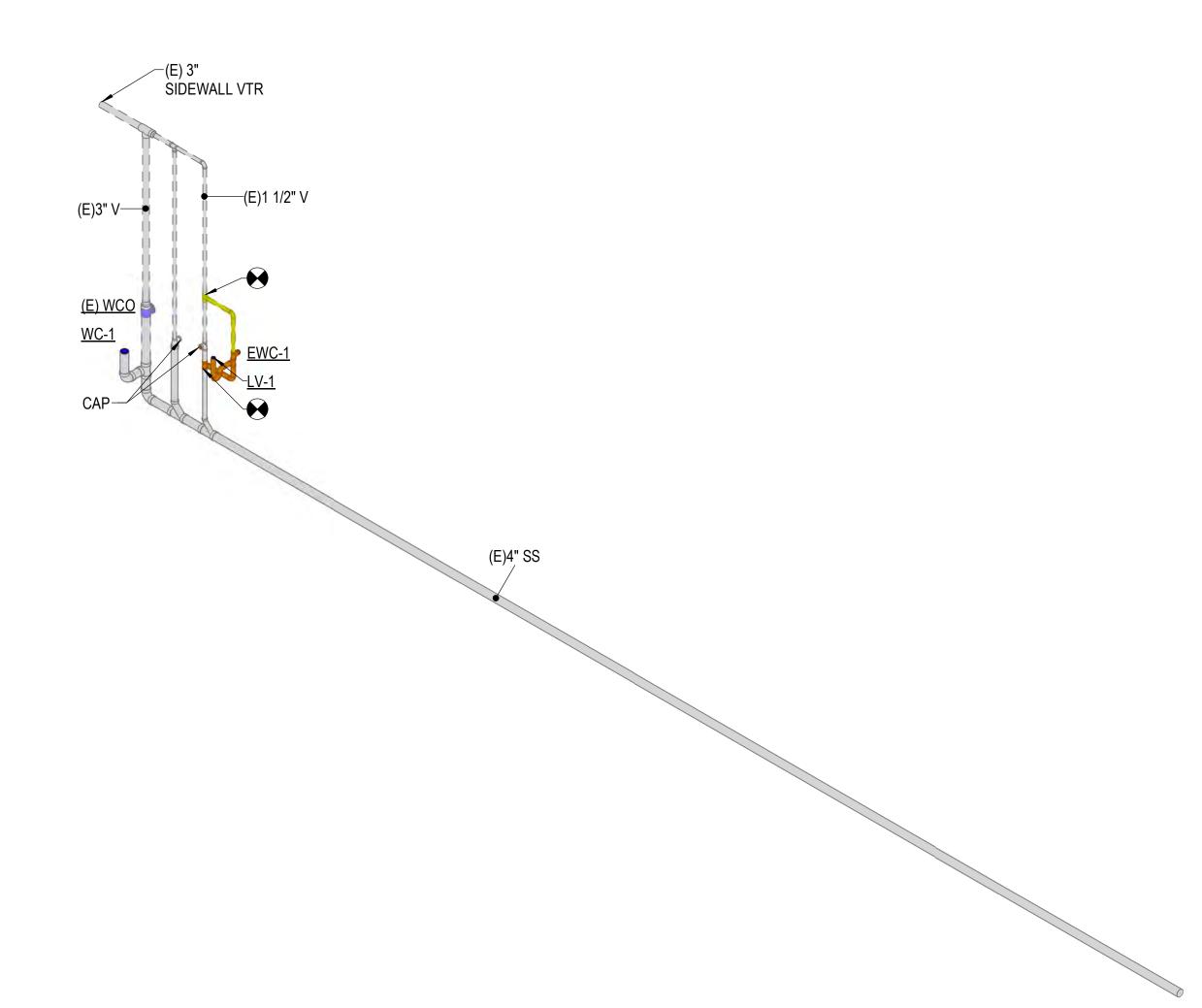
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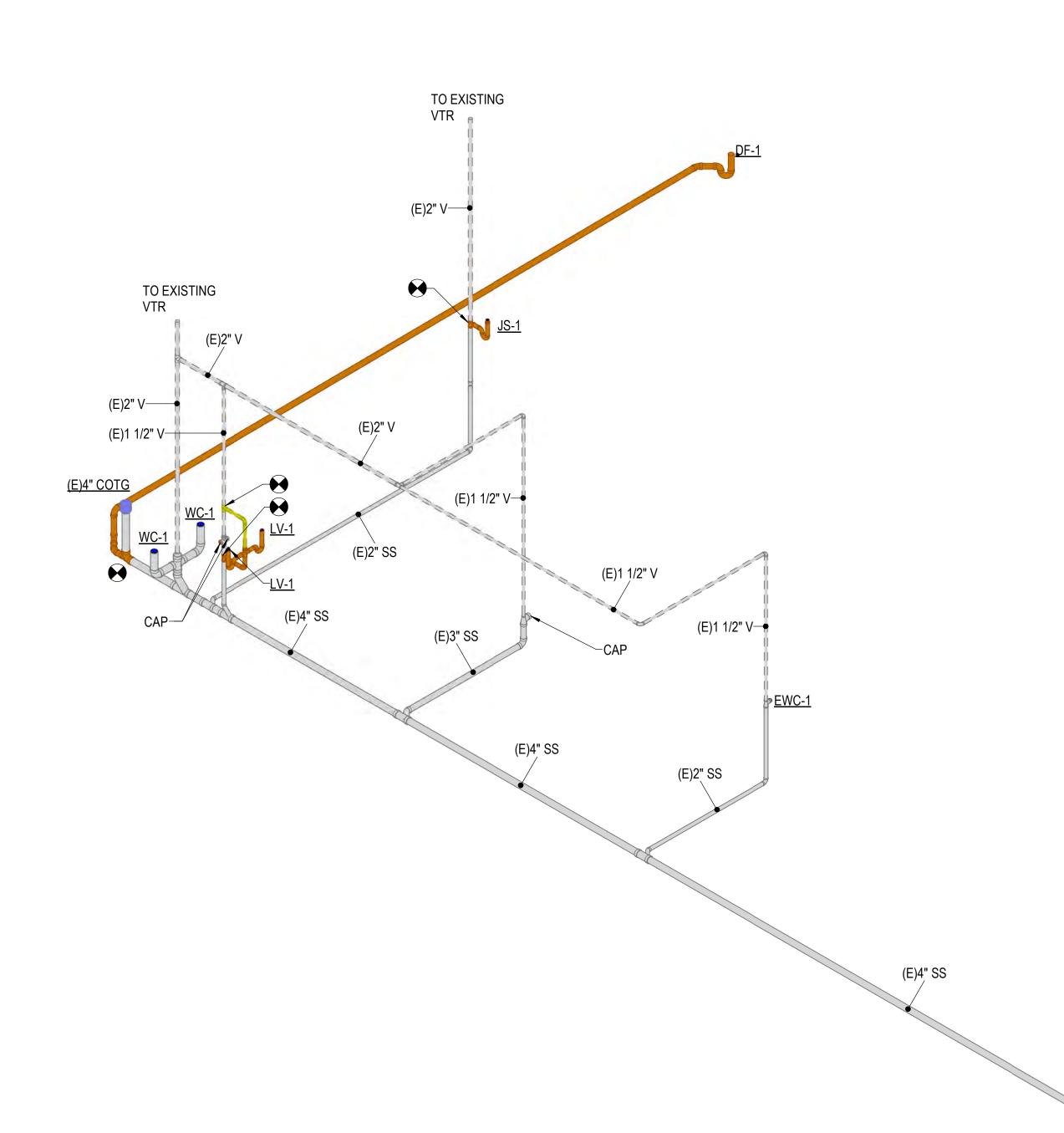
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SANITARY SEWER RISER

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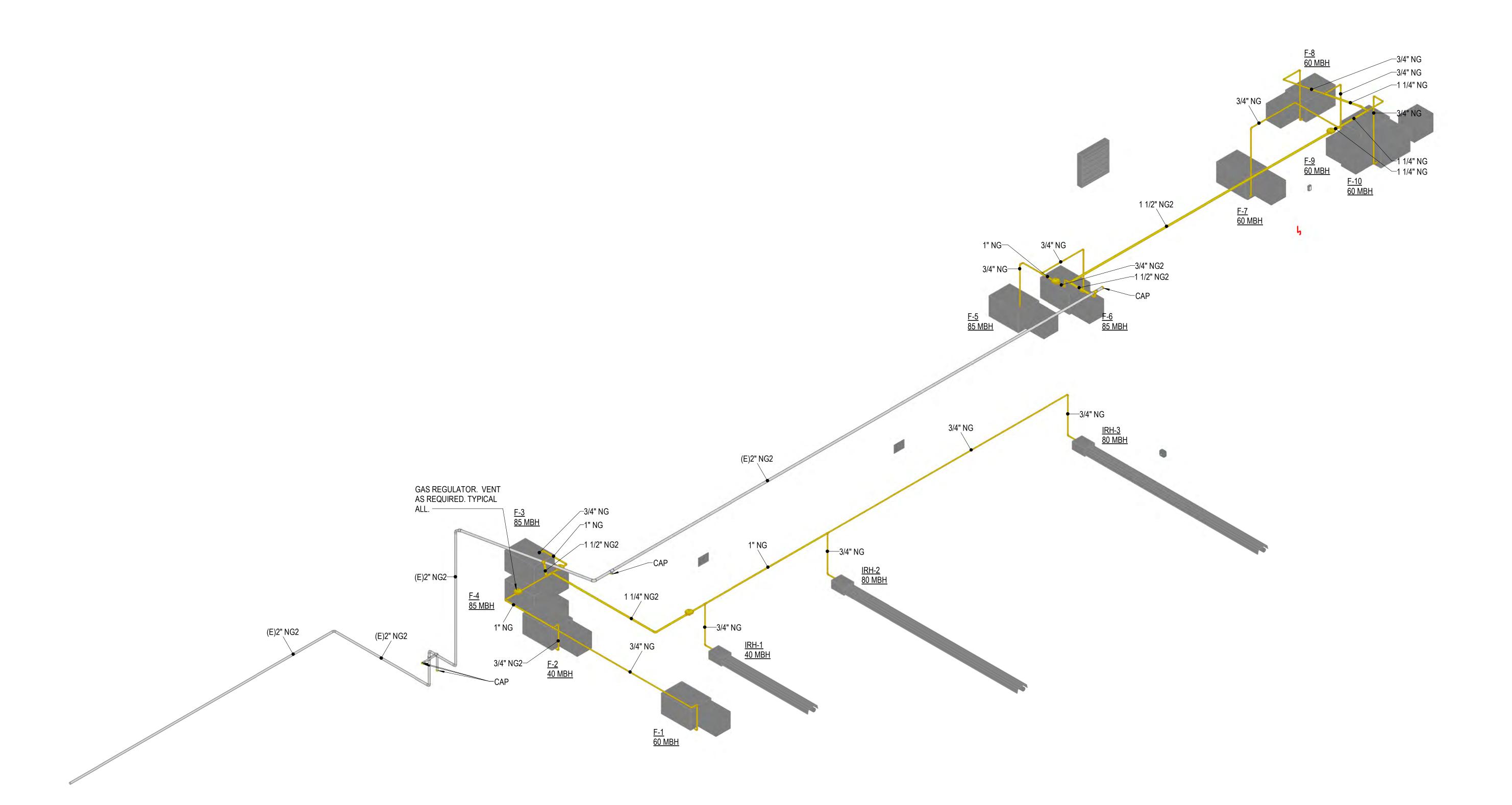
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DRAIN, WASTE, VENT PLUMBING RISER

NOT TO SCALE



THE FUEL GAS RISER

NOT TO SCALE





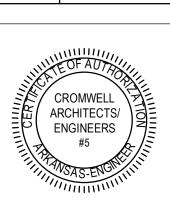
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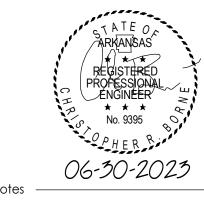
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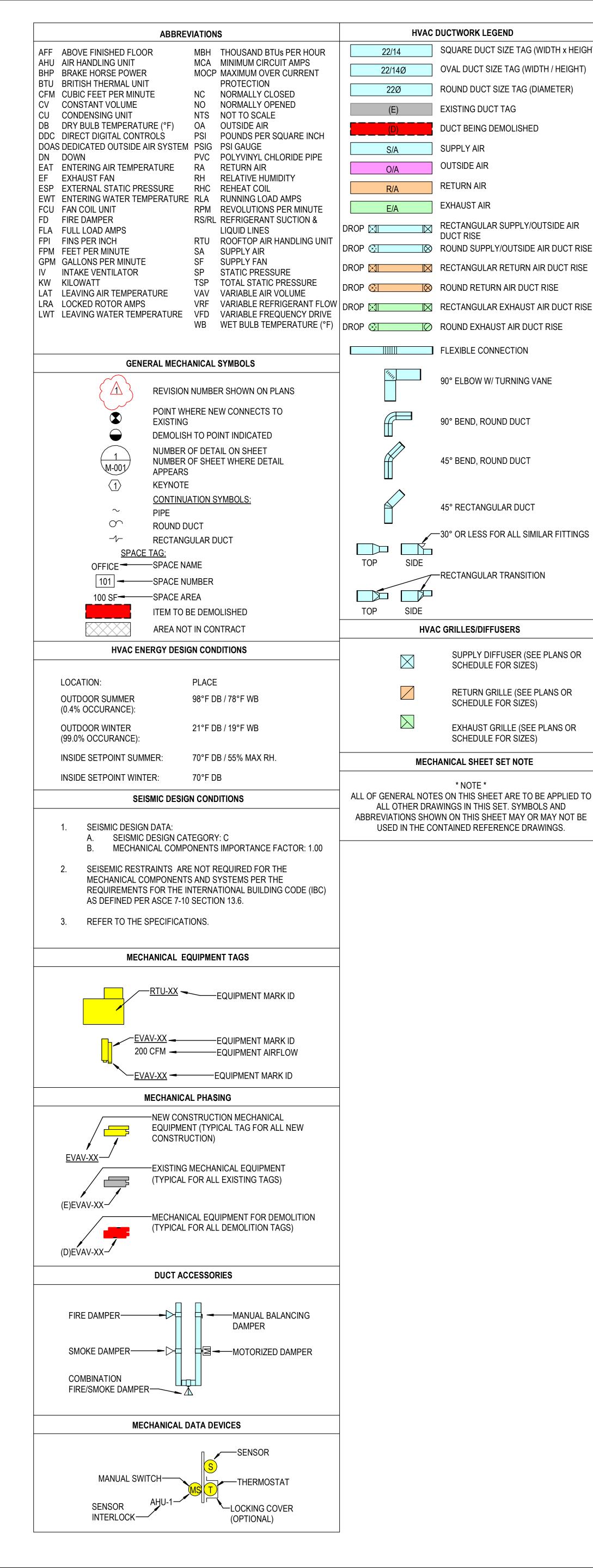
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2023-049

GAS RISER

Sheet Number —

P-903



GENERAL NOTES

- 1 ALL WORK SHALL COMPLY WITH THE 2021 EDITION OF THE "INTERNATIONAL MECHANICAL CODE", THE 2014 EDITION OF THE "ARKANSAS ENERGY CODE", NFPA 90A, AND ALL CITY, STATE, AND LOCAL REQUIREMENTS.
- 2 REFER TO THE PROJECT MANUAL FOR ALL REQUIREMENTS

SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)

OVAL DUCT SIZE TAG (WIDTH / HEIGHT)

ROUND DUCT SIZE TAG (DIAMETER)

ROUND SUPPLY/OUTSIDE AIR DUCT RISE

90° ELBOW W/ TURNING VANE

90° BEND, ROUND DUCT

45° BEND, ROUND DUCT

45° RECTANGULAR DUCT

-RECTANGULAR TRANSITION

SCHEDULE FOR SIZES)

SCHEDULE FOR SIZES)

SCHEDULE FOR SIZES)

* NOTE *

-30° OR LESS FOR ALL SIMILAR FITTINGS

SUPPLY DIFFUSER (SEE PLANS OR

RETURN GRILLE (SEE PLANS OR

EXHAUST GRILLE (SEE PLANS OR

EXISTING DUCT TAG

SUPPLY AIR

OUTSIDE AIR

RETURN AIR

EXHAUST AIR

DUCT RISE

DUCT BEING DEMOLISHED

- 3 REFER TO ARCHITECTURAL PLANS FOR: REFLECTED CEILING PLAN FOR EXACT LOCATION OF AIR DEVICES AND CEILING TYPES. - EXACT LOCATIONS AND MOUNTING HEIGHTS OF EXTERIOR LOUVERS. - FIRE RATED WALLS AND PARTITIONS. PROVIDE FIRE DAMPERS IN DUCT PENETRATIONS OF ALL FIRE RATED WALLS AND PARTITIONS AS NECESSARY TO MEET CITY AND STATE REQUIREMENTS. - ALL WALL AND ROOF PENETRATIONS AND EQUIPMENT MOUNTING DETAILS.
- 4 ALL DUCTWORK SHALL BE CONSTRUCTED FROM GALVANIZED STEEL IN CONFORMANCE WITH SMACNA "HVAC DUCT CONSTRUCTION STANDARDS," LATEST EDITION
- 5 U.L. LISTED FLEXIBLE DUCT RUN-OUTS MAY BE USED, BUT SHALL NOT EXCEED 5'-0" IN LENGTH. ALL FLEXIBLE DUCT TO BE PROPERLY SUPPORTED WITH NO KINKS OR HARD
- 6 DUCT FITTINGS: SUPPLY TAKE-OFFS TO CEILING SUPPLY DIFFUSERS TO BE CONICAL TAP OR 45° SIDE TAP. - ALL DUCT RUN-OUTS TO HAVE LOCKING QUADRANT VOLUME DAMPERS. PROVIDE STAND-OFF BRACKET TO ACCOMMODATE INSULATION THICKNESS. ALL 90° ROUND ELBOWS TO HAVE R/D=1.5 (UNLESS OTHERWISE NOTED). - ALL 90° RECTANGULAR ELBOWS TO HAVE TURNING VANES (UNLESS OTHERWISE NOTED). PROVIDE HARD ELBOW WHEN TRANSITIONING FROM RIGID TO FLEXIBLE DUCT WHEN CONNECTING TO AIR DEVICES. REFER TO DETAIL
- 7 DUCTWORK TO BE COORDINATED WITH STRUCTURAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION, COMPONENTS AND SYSTEMS. ALL DUCTWORK THAT HAS TO BE OFFSET DUE TO AN OBSTRUCTION SHALL BE SLOPED WITH 2-30° ELBOWS UNLESS OTHERWISE
- 8 PROVIDE ACCESS PANELS IN CEILINGS OTHER THAN LAY-IN TYPE WHERE NECESSARY: -CLOSELY COORDINATE LOCATIONS AND SIZE OF ACCESS PANELS WITH INSTALLED EQUIPMENT TO ACHIEVE GREATEST ACCESSIBILITY FOR MAINTENANCE PURPOSES. PROVIDE ACCESS PANEL AT BALANCING DAMPERS, FIRE DAMPERS, CONTROLS, VALVES, TRAPS. CLEAN OUTS. ETC. - PROVIDE ACCESS PANELS FOR GREASE DUCTS, AS REQUIRED BY NFPA 96, FOR CLEANING PURPOSES, AT CHANGES IN DIRECTION, ETC.
- 9 COMPLETELY INSULATE THE TOPS OF ALL CEILING DIFFUSERS.
- 10 CLOSELY COORDINATE LOCATIONS OF INSTALLED EQUIPMENT TO ACHIEVE THE GREATEST ACCESSIBILITY.
- 11 MAINTAIN 10'-0" MINIMUM CLEARANCE BETWEEN OUTSIDE AIR INTAKES AND ALL EXHAUST FANS, FLUES, PLUMBING VENTS, ETC.
- 12 ALL ROOF MOUNTED HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO EXHAUST FANS, CONDENSING UNITS, AND ROOF-TOP UNITS, SHALL BE A MINIMUM OF 10' FROM THE ROOF'S EDGE, OR PARAPET, UNLESS OTHERWISE NOTED ON PLANS. IN SUCH CASE, CONTRACTOR SHALL COORDINATE WITH ARCHITECT TO PROVIDE SAFETY HANDRAILS AROUND ROOF MOUNTED HVAC EQUIPMENT THAT IS LOCATED LESS THAN 10' FROM ROOF'S EDGE, OR PARAPET.
- 13 PROVIDE FLEXIBLE CONNECTIONS AT INLETS AND OUTLETS OF ALL AIR HANDLING UNITS, MAKE-UP AIR UNITS, FURNACES, AND/OR EXHAUST FANS.
- 14 PROVIDE 4" CONCRETE PADS UNDER ALL GROUND MOUNTED CONDENSING UNITS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL SIDES.
- 15 ROOF MOUNTED CONDENSING UNITS SHALL BE PLACED ON PATE OR APPROVE EQUAL EQUIPMENT SUPPORTS, MODEL ES-2 W/ INSULATION, FIBER CANT, AND METAL CAP, MINIMUM 11" HIGH ABOVE ROOF DECK. MAKE WEATHER TIGHT.
- 16 PROVIDE 6" CONCRETE PADS UNDER ALL GROUND MOUNTED AIR HANDLING UNITS AND CHILLERS. EACH PAD TO EXTEND A MINIMUM OF 6" BEYOND OUTLINE OF UNIT ON ALL
- 17 ATTIC MOUNTED AND ABOVE CEILING MOUNTED EQUIPMENT SUBJECT TO WATER/CONDENSATE OVERFLOW SHALL BE SET IN DRAIN PANS WITH DRAINS TO THE
- OUTSIDE OR SANITARY SEWER SYSTEM WITH VISIBLE DISCHARGE 18 CONDENSATE PIPING SHALL BE COMPRISED OF TYPE "M", DWV COPPER, OR SCHEDULE 40 PVC. PVC EXPOSED TO SUNLIGHT SHALL HAVE UV RESISTANT COATING.
- 19 PROVIDE APPROVED, NON-FLAMMABLE PIPE INSULATION ON ALL INSULATED PIPES AND PIPES OF PVC MATERIAL PASSING THRU AREAS OF BUILDING WITH RETURN AIR
- 20 ALL EXTERIOR EXPOSED PIPING SUSCEPTIBLE TO FREEZING, SUCH AS CONDENSATE PIPING, SHALL BE INSULATED WITH 1" FIBERGLASS PIPING INSULATION WITH 0.020"
- ALUMINUM JACKET AND HEAT TRACED AT 5 WATTS/FOOT. SEAL JACKET WATER-TIGHT. 21 ALL WALL-MOUNTED, OCCUPANT-CONTROLLED HVAC DEVICES, I.E., THERMOSTATS, HUMIDISTAT. CO2 CONTROLLERS. CONTROL PANELS. ETC.. SHALL BE MOUNTED 4'-0" ABOVE FINISHED FLOOR. CONTROLS LOCATED IN PUBLIC AREAS SHALL HAVE CLEAR
- PLASTIC LOCKING COVERS. 22 COORDINATE WORK CLOSELY WITH CONTROL CONTRACTOR. PROVIDE ALL NECESSARY DUCT, PIPE TAPS, TEES, WELLS, CONTROL DAMPERS, AIR MEASURING STATIONS, AND OTHER ACCESSORIES REQUIRED BY CONTROL SYSTEM
- 23 SLEEVE AND SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH FIRE RATED AND NON-RATED SLABS AND PARTITIONS.

DEMOLITION NOTES

- 1 CONTRACTOR SHALL VERIFY EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED
- * PIPE SIZES AND ROUTING. * EQUIPMENT CONNECTIONS AND LOCATIONS.
- 2 PROVIDE NECESSARY MODIFICATIONS TO NEW AND EXISTING SYSTEMS TO FACILITATE THE INSTALLATION AND INTERFACE OF NEW AND EXISTING SYSTEMS.
- 3 EXISTING SYSTEMS AND INFORMATION SHOWN ON THESE PLANS WERE DEVELOPED USING EXISTING BUILDING DRAWINGS. CONTRACTOR SHALL VERIFY AT SITE ALL EXISTING SYSTEMS. REMOVE ALL PORTIONS OF PIPING SYSTEMS BEING REMOVED OR ABANDONED. TERMINATE EXISTING SYSTEMS ABOVE CEILINGS AND BELOW FLOOR SLABS IN A MANNER THAT WILL NOT CONFLICT WITH NEW WORK. CLOSELY COORDINATE NEW WORK WITH EXISTING SYSTEMS. PROVIDE OFFSETS IN EXISTING AND NEW SYSTEMS AS REQUIRED TO AVOID CONFLICTS.
- 4 OORDINATE AND SCHEDULE ALL CONNECTIONS TO EXISTING SYSTEMS AND SYSTEM SHUT-DOWNS WITH MAINTENANCE PERSONNEL.
- 5 MAINTAIN EXISTING BUILDING SYSTEMS WITH PHASED DEMOLITION AND INSTALLATION OF NEW WORK, PROVIDING TEMPORARY SERVICES AS REQUIRED.
- 6 USE EXISTING PIPING SYSTEM VALVES WHERE POSSIBLE TO ISOLATE SYSTEMS AND TO CAP EXISTING PIPING. REPLACE EXISTING VALVES WHERE NECESSARY WHEN EXISTING VALVES WILL NOT HOLD.
- 7 EXISTING EQUIPMENT BEING REMOVED AND DESIGNATED TO REMAIN THE PROPERTY OF THE OWNER SHALL BE DELIVERED UPON REMOVAL TO LOCATION DESIGNATED BY OWNER. ALL OTHER SYSTEM COMPONENTS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
- 8 REMOVE AND RELOCATE SMALL CONDUIT, CABLE, PIPE AND DUCT, PIPE AND CEILING HANGERS ETC. AS NECESSARY TO ACHIEVE A COMPLETE INSTALLED MECHANICAL SYSTEM AS SHOWN ON DRAWINGS. 9 PATCH ALL WALLS, FLOORS, ROOFS AND CEILINGS TO MATCH EXISTING OR NEW (IF
- APPLIED) FOR ALL OPENINGS CREATED BY DEMOLITION WORK OF EQUIPMENT AND HVAC SERVICE PENETRATIONS.
- 10 REPLACE AND/OR PATCH TO MATCH EXISTING: ANY EXISTING PIPE AND/OR DUCT INSULATION THAT IS TO REMAIN EXISTING AND IS DAMAGED OR REMOVED DURING CONSTRUCTION.
- 11 REFER TO ELECTRICAL PLANS FOR EXTENT OF DEMOLITION WORK RELATING TO WIRING FOR SUPPORT OF HVAC EQUIPMENT TO BE REMOVED.

Issue Date 06-30-2023

2023-049

MECHANICAL LEGEND AND SYMBOLS



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Design Phase -

Date

Stamp ——

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ARCHITECTS/

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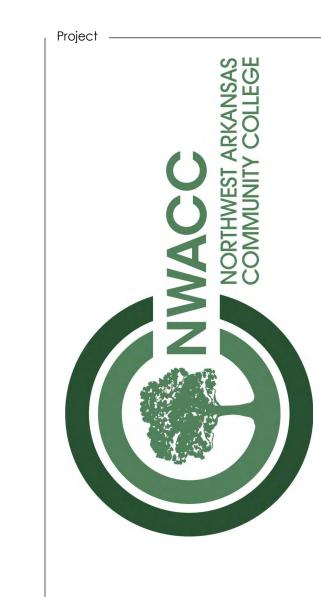
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BLACK AND WHITE PRINTING.

Description

KEYED NOTES

- DEMOLISH EXISTING GROUND MOUNTED PACKAGED UNIT AND ALL ASSOCIATED DUCTWORK, AIR DEVICES, PIPING, AND WIRING.
- 2 DEMOLISH EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK.
- DEMOLISH EXISTING UNIT HEATER AND ALL ASSOCIATED PIPING, FLUES, AND CONTROL WIRING.



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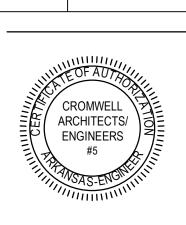
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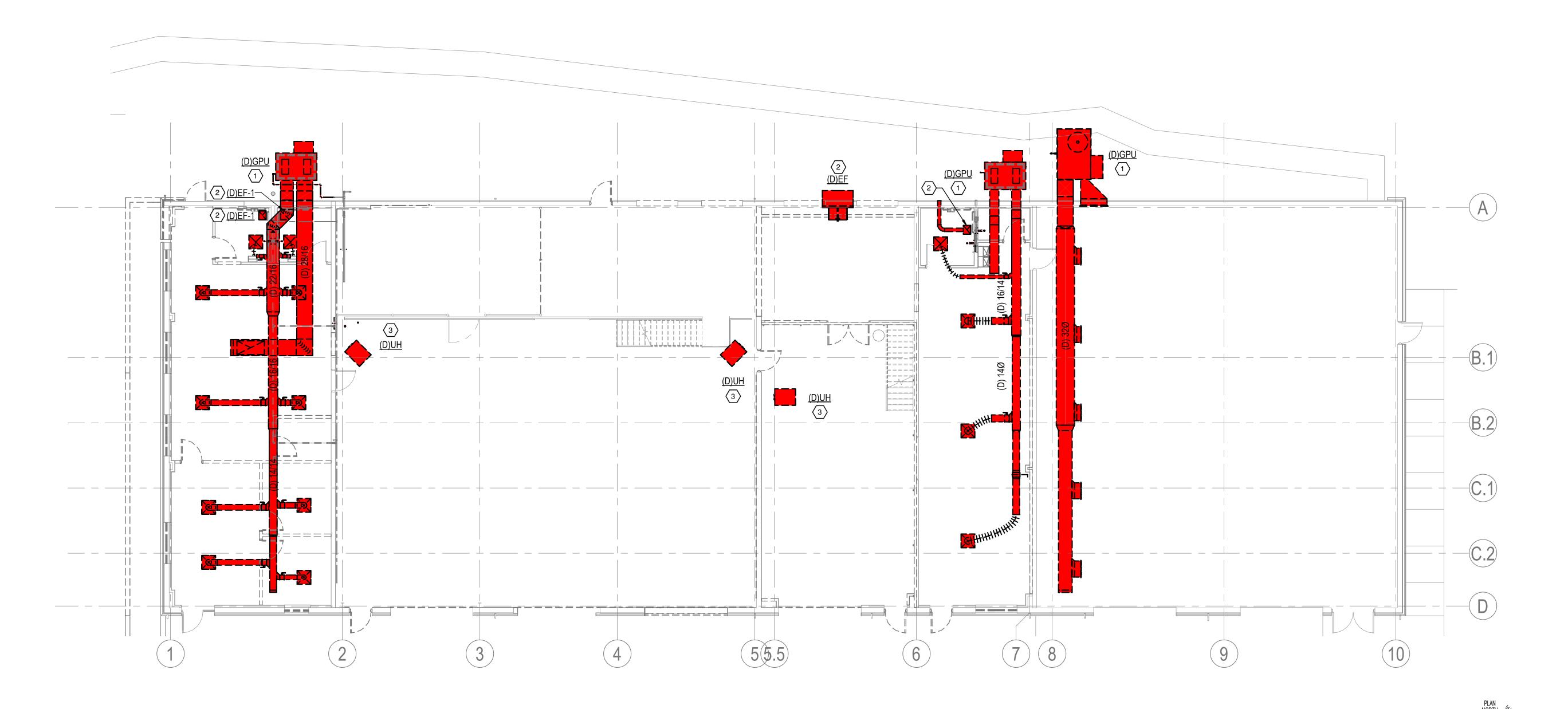
06-30-2023

MECHANICAL DEMOLITION

Sheet Title ——

Sheet Number ——

MD101



GENERAL NOTES

1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.



KEYED NOTES

- 1 6" SUPPLY UP TO MEZZANINE.
- 2 MOUNT UNIT AT 11'-0" AFF.
- 3 MOUNT UNIT AT 14'-0" AFF.
- 4 MOUNT BOTTOM OF DUCT AT 16'-0" AFF.
- MOUNT BOTTOM OF RETURN GRILLE AT 11'-7".
- PROVIDE BACKDRAFT DAMPER FOR EACH 8" EXHAUST DUCT.
- 7 ROUTE CONDENSATE PIPING UP TO MEZZANINE LEVEL.
- 9 THERMOSTAT LOCATION FOR F-3 AND F-4.
- CONCENTRIC VENT TERMINATION. MAINTAIN 10'-0" DISTANCE FROM ANY OUTSIDE AIR INTAKE.
- 11 ROUTE CONDENSATE PIPING DOWN EXTERIOR WALL AND TERMINATE OUTSIDE BUILDING 12" AFF.
- 12 ROUTE REFRIGERANT LINES IN WALL UP TO MEZZANINE LEVEL.
- 13 THERMOSTAT LOCATION FOR F-8, F-9, AND F-10.
- 14 EQUIPMENT PAD. REFERENCE DETAIL 8/M-501.
- 15 MOUNT BOTTOM OF DUCT AT 16'-00".
- 16 HVLS-1 CONTROLLER LOCATION. MOUNT 54" AFF.
- FLEXIBLE EXTRACTION ARM SYSTEM EQUAL TO "PLYMOVENT KUA-160 TYPE H-D" WITH HANGING BRACKET AND BALL BEARING SWIVEL TO SUPPORT FLEXIBLE EXTRACTION ARM AND ASSOCIATED WELDING EXHAUST FAN "WEF" (SEE SCHEDULE FOR MORE INFORMATION). EXTRACTION ARMS SHALL BE 160MM DIAMETER WITH EXTERNAL HINGES AND A MINIMUM WORKING RANGE OF 13 FEET. PROVIDE FAN DISCHARGE SILENCER, 24V WORKING LIGHT AND MANUAL SWITCH FOR LIGHT AND FAN ACTIVATION, WITH COMBINATION MOTOR CONTROLLER/STARTER/LOW VOLTAGE POWER SUPPLY EQUAL TO SUPPORTING COLUMNS (SEE ARCHITECTURAL AND STRUCTURAL SHEETS) – APPROXIMATELY 9'4" A.F.F. USE ONLY LONG RADIUS ELBOWŚ IN ASSOCIATED EXHAUST DUCT.



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CONSTRUCTION

DOCUMENTS Date Description

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MECHANICAL PLANS

Sheet Number -



FIRST FLOOR HVAC PLAN

1/8" = 1'-0"

0

8

16

32

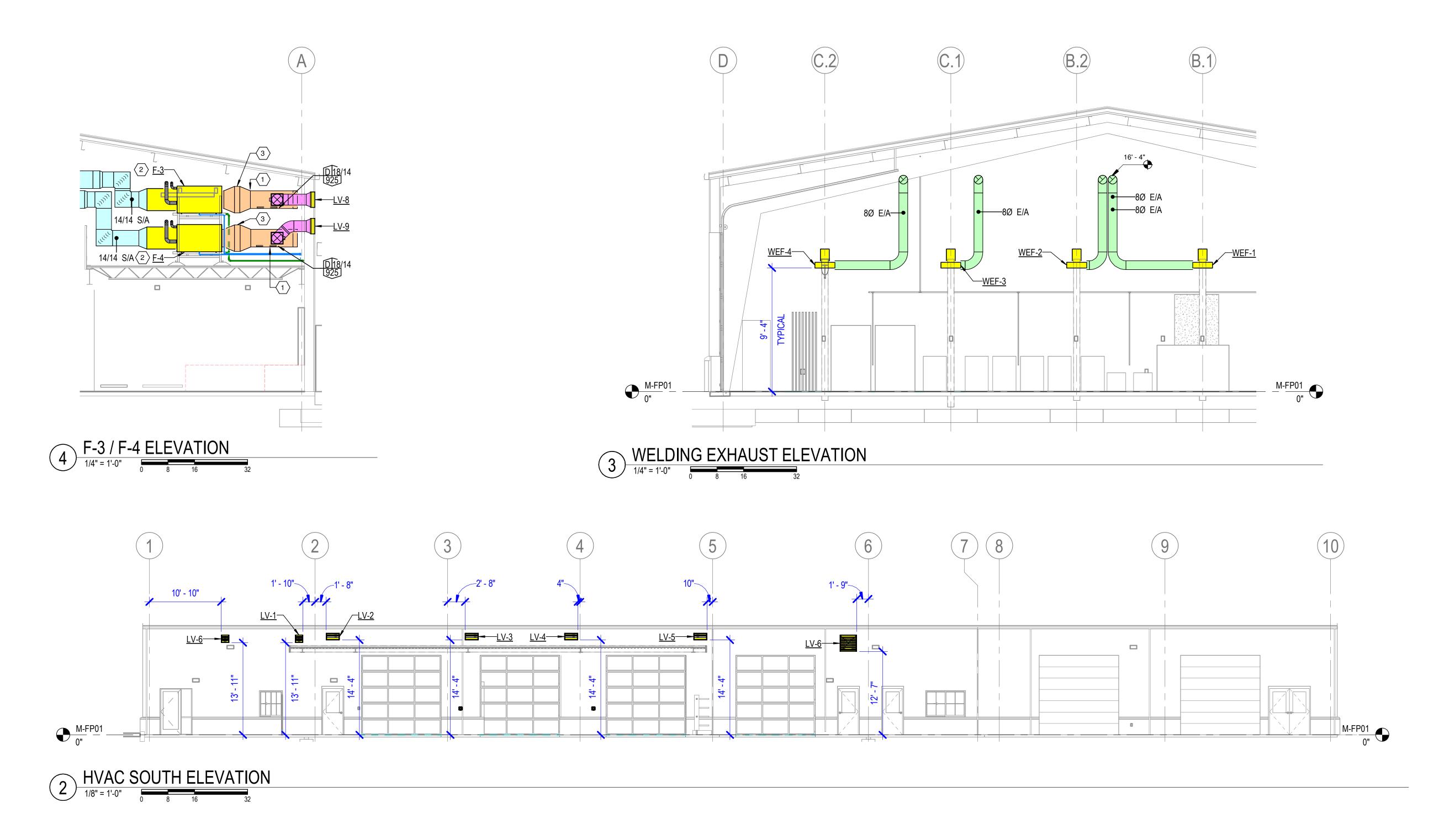
GENERAL NOTES

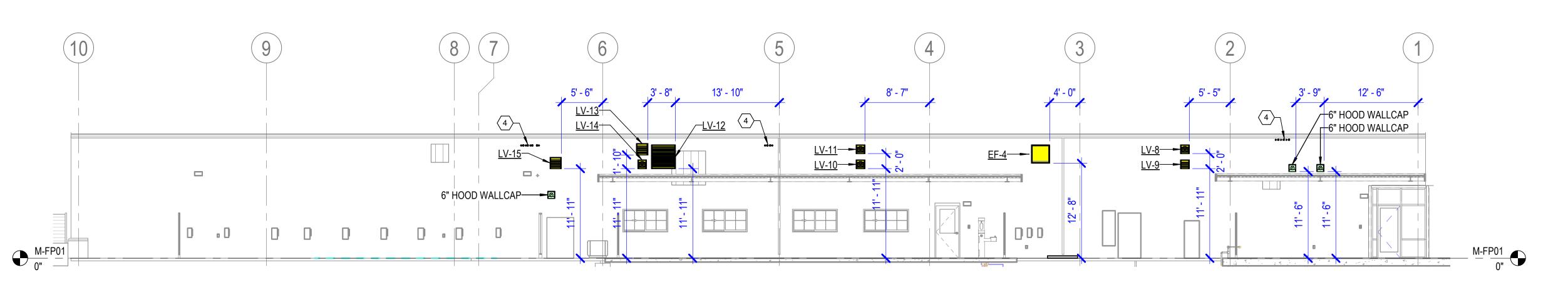
1 REFER TO SHEET M-001 FOR MECHANICAL NOTES, ABBREVIATIONS, AND LEGEND SYMBOLS.



KEYED NOTES

- 1 PROVIDE FULL SIZE RETURN AIR PLENUM TO MATCH FURNACE CONNECTION SIZE.
- F-3 AND F-4 TO BE MOUNTED ON MIRO MODEL 8HD-CO-2H EQUIPMENT RACK. PROVIDE RHEEM RXBM-AC61 SECONDARY HORIZONTAL DRAIN PAN WITH RAIL AND FLOAT SWITCH FOR AUTOMATIC UNIT SHUT DOWN FOR EACH FURNACE UNIT.
- 3 24"x24" FILTER RACK TO ACCOMODATE 2" MERV 8 FILTERS.
- 4 CONCENTRIC VENT TERMINATION. MAINTAIN 10'-0" DISTANCE FROM ANY OUTSIDE AIR INTAKE.





1 HVAC NORTH ELEVATION

1/8" = 1'-0"

NORTHWEST ARKANSAS CO
STANDARD

NORTHWEST ARKANSAS CO
STANDARD

NORTHWEST ARKANSAS CO
STANDARD

1201 S.E. EAGL

1201 S.E. EAGL

1201 S.E. EAGL

RENTONVILLE, ARKA

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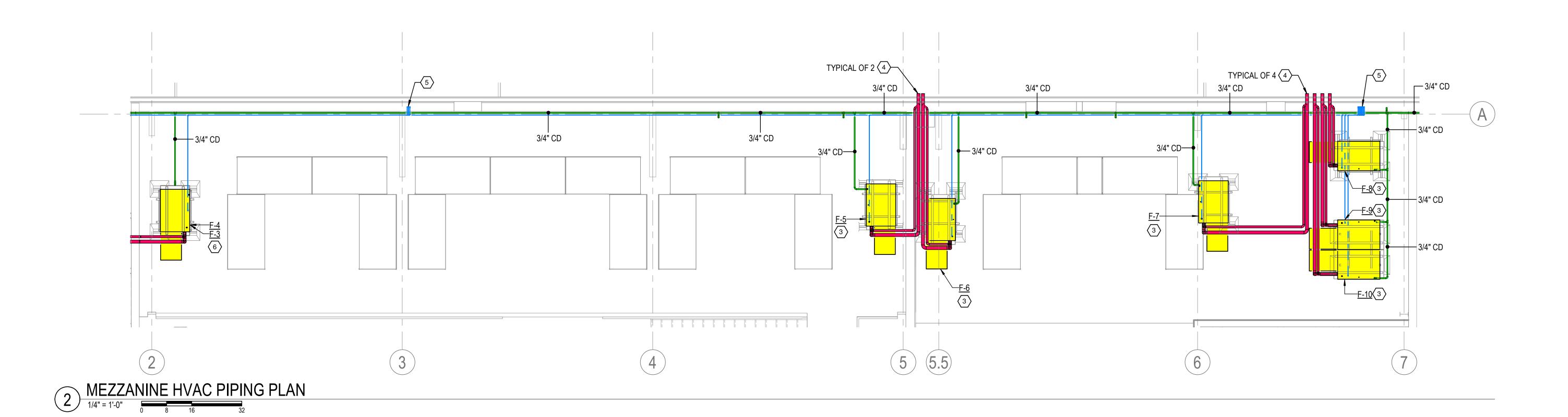
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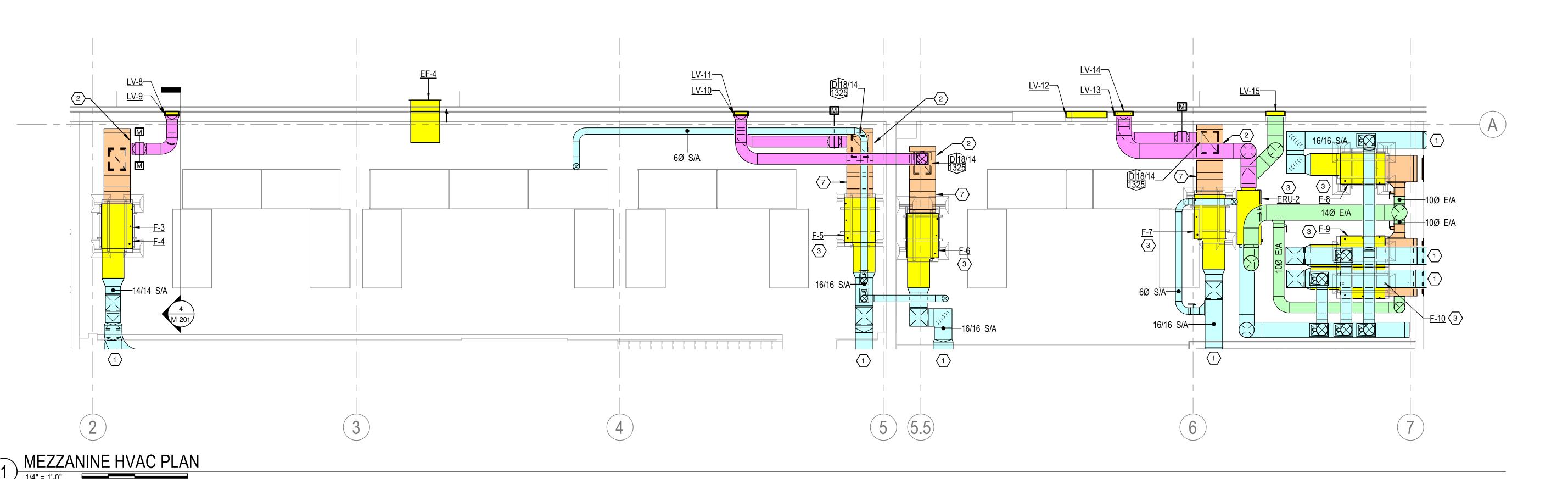
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KEYED NOTES

- 1 REFER TO DETAIL 1/M1-01 FOR CONTINUATION.
- 2 PROVIDE FULL SIZE RETURN AIR PLENUM TO MATCH FURNACE CONNECTION SIZE.
- 3 UNIT TO BE MOUNTED ON MIRO MODEL 8HD-CO-1H EQUIPMENT RACK. PROVIDE RHEEM RXBM-AC61 SECONDARY HORIZONTAL DRAIN PAN WITH RAIL AND FLOAT SWITCH FOR AUTOMATIC UNIT SHUT DOWN.
- 4 CONCENTRIC VENT TERMINATION. MAINTAIN 10'-0" DISTANCE FROM ANY OUTSIDE AIR INTAKE.
- 5 ROUTE REFRIGERANT LINES DOWN IN WALL TO BELOW MEZZANINE.
- 6 F-3 AND F-4 TO BE MOUNTED ON MIRO MODEL 8HD-CO-2H EQUIPMENT RACK. PROVIDE RHEEM RXBM-AC61 SECONDARY HORIZONTAL DRAIN PAN WITH RAIL AND FLOAT SWITCH FOR AUTOMATIC UNIT SHUT DOWN FOR EACH FURNACE UNIT.
- 7 24"x24" FILTER RACK TO ACCOMODATE 2" MERV 8 FILTERS.





NORTHWEST ARKANSAS COMMUNITY COLLEGE

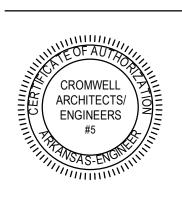
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Design Phase

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DOCUMENTS

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ENLARGED MECHANICAL PLANS

M-401

Sheet Number —



WEST ARKANS 1201 S.E BENTONVILLE ∀ X Z

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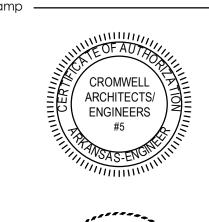
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MECHANICAL DETAILS

Sheet Number

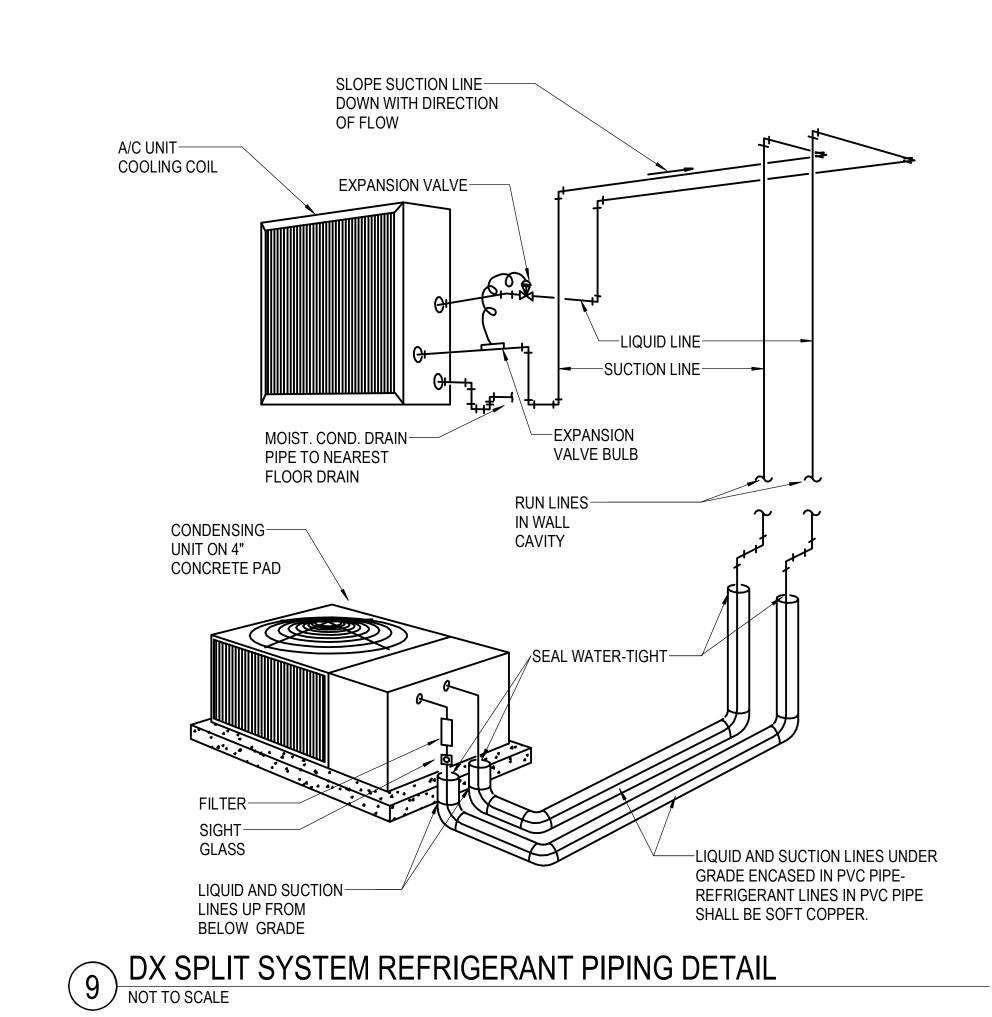
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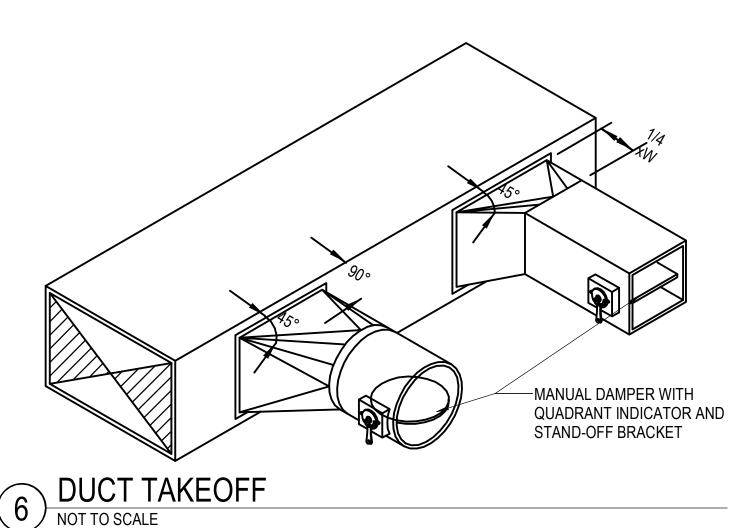
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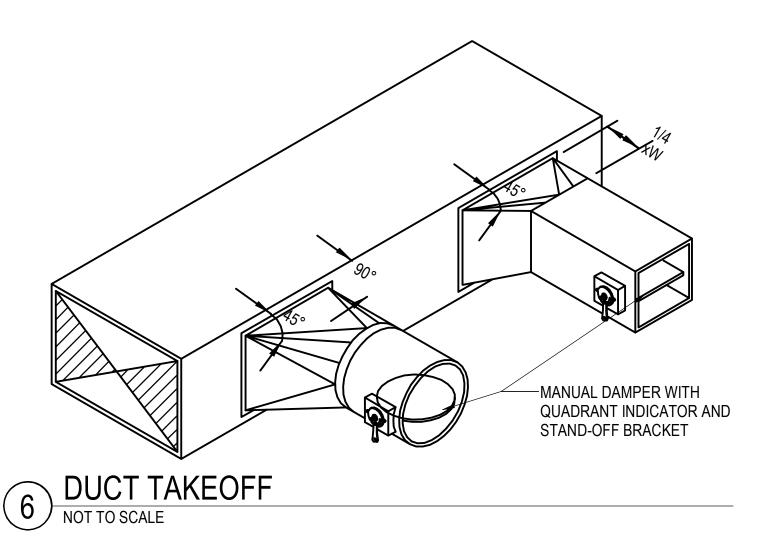


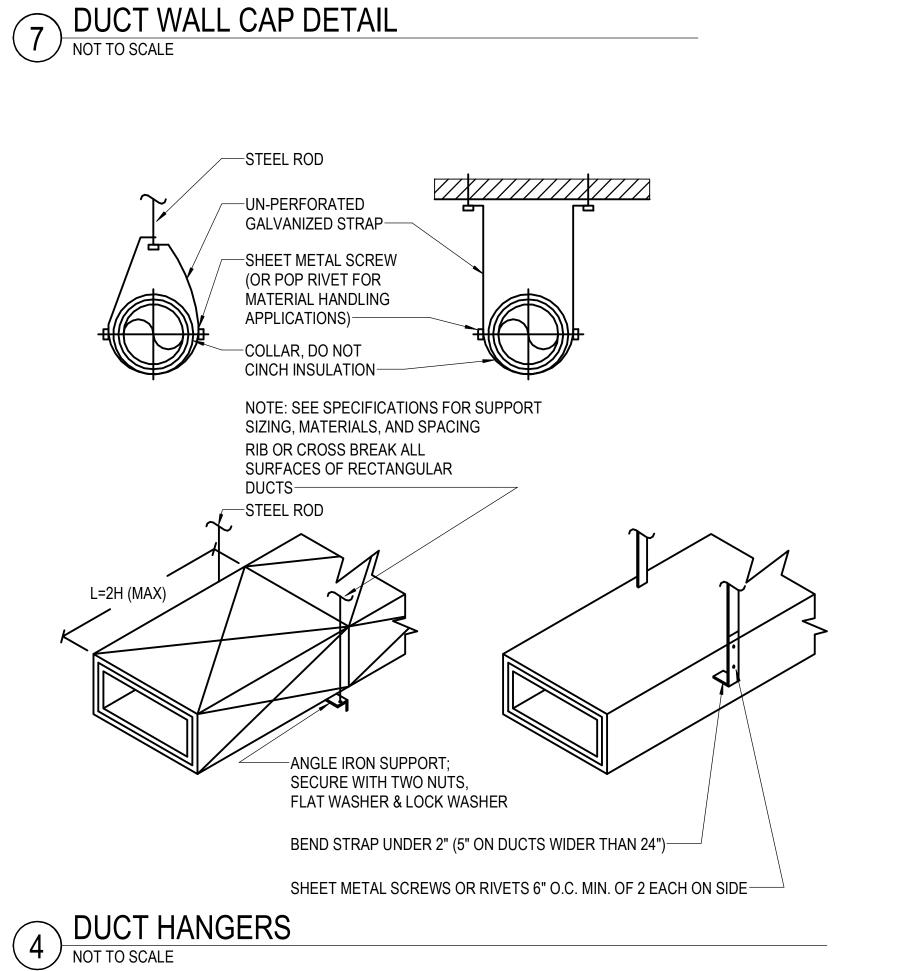


Issue Date









4" LEFT SIDE CLEARANCE

MAXIMUM 4" WALL

CONCEALED CONDENSATE DRAIN, HARD PIPE FULL SIZE

TO DRAIN. SEE PLUMBING.-

INSTALL AND SUPPORT

COMPRESSOR SIDE —

10" REAR CLEARANCE —

MOUNT AGAINST HIGH WIND

EXHAUST AIR

CONDITIONS. SEE ARCHITECTURAL.-

DUCTLESS SPLIT SYSTEM - WALL UNIT

NOT TO SCALE

REFRIGERANT LINES

20" CLEARANCE

REFRIGERANT

TUBING-

NEATLY-

PENETRATION—

OUTSIDE WALL

WALL HANGER-

WALL GASKET-

4" RIGHT SIDE

PUMP CONDENSATE

WALL PENETRATION

CLEARANCE

FOR CEILING

INSTALLATIONS.

✓8" TOP CLEARANCE

36" FRONT CLEARANCE

10" SIDE CLEARANCE

-SEAL WATER TIGHT AROUND PERIMETER OF

(BY EXH. FAN MFGR.)

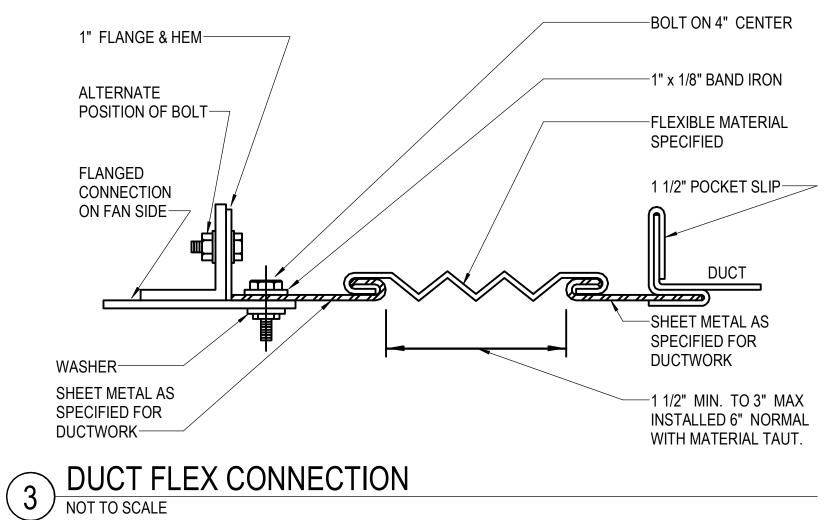
PRIME AND PAINT TO MATCH

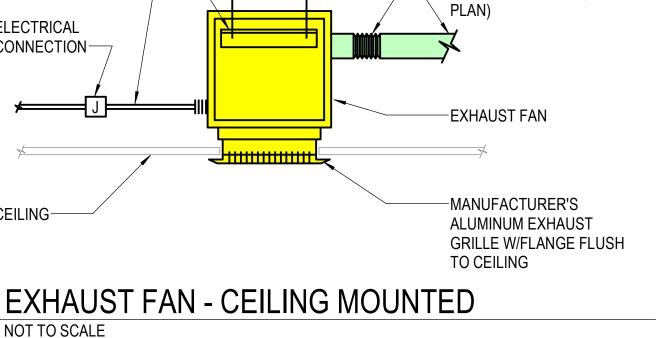
-WALL, CONSTRUCTION WILL VARY

EXTERIOR WALL COLOR

-WALL CAP

-WALL TRIM





-EQUIPMENT

PAD FOOTPRINT SHALL MATCH EQUIPMENT +

8 OUTDOOR HOUSEKEEPING PAD DETAIL
NOT TO SCALE

INSULATE BACK

OF DIFFUSER—

I" SECURING STRAP (TYP.)-

SIDE INLET BOX EQUAL TO FLEXMASTER "SIDB". PAINT

INSULATED FLEXIBLE DUCT

(MAXIMUM LENGTH 5'-0")—

1" SECURING STRAP (TYP.)

RETURN OR EXHAUST

INSULATE BACK OF DIFFUSER—

ADAPTER EQUAL TO FLEXMASTER "F4SC". PAINT INSIDE FLAT BLACK-

4" DEEP SQUARE TO ROUND

INSIDE FLAT BLACK

-LAY-IN CEILING

INSULATION-

RIGID ELBOW

AIR DEVICE-

5 AIR DEVICE CONNECTION
NOT TO SCALE

-SUPPORT FROM STRUCTURE

FLEXIBLE DUCT CONNECTION

—ALL THREAD RODS (4)

—DISCHARGE DUCT (SEE

LAY-IN CEILING-

-5" SLAB ON GRADE, REINF. WITH #4 AT 16" O.C. EACH WAY

SUPPLY, RETURN, OR EXHAUST

UNION-

UNIT

AIR HANDLING

(DRAW-THROUGH)

UNIT CONNECTION,

H1: NEGATIVE STATIC

PRESSURE AT PAN

H3: 1" ABOVE TOP OF DRAIN

DRAW-THROUGH CONFIGURATION

CONDENSATE DRAIN TRAP - DRAW THROUGH

H2: +1" 1/2X H1 (MINIMUM)

PAN (MINIMUM)

COPPER PIPE.-

NOT TO SCALE

PIPE SIZE IS FULL SIZE OF

(UNLESS OTHERWISE

FLEX SHALL BE RUN AS STRAIGHT AS POSSIBLE

EXHAUST AIR SYSTEMS.

1" SECURING STRAP (TYP.)

INSULATION-

RIGID ELBOW-

GRILLE WITH

ROUND NECK.-

INSULATE BACK

LAY-IN CEILING——

OF DIFFUSER—

FLEX DUCT SHOULD NOT BE PERMITTED ON RETURN AIR OR

CONICAL OR 45° TAKE-OFF FITTING WITH 1" MOUNTING FLANGE AND

<u>SUPPLY</u>

—PROVIDE UNION IF DRAIN

LENGTH EXCEEDS 5'-0"

TO DRAIN-

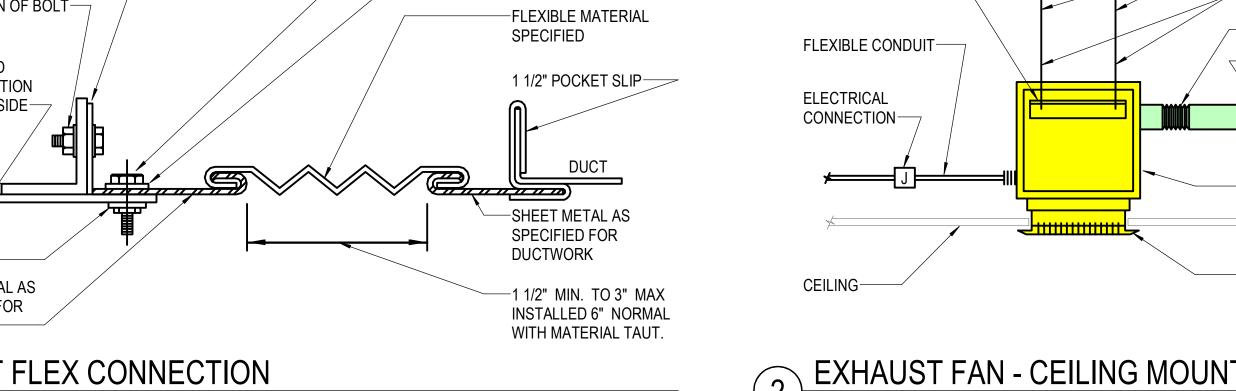
___AIR DEVICE

ADHESIVE COATED GASKET. ATTACH WITH SHEET METAL SCREWS.

INSULATED FLEXIBLE DUCT (MAXIMUM LENGTH 5'-0")—

INDICATED)

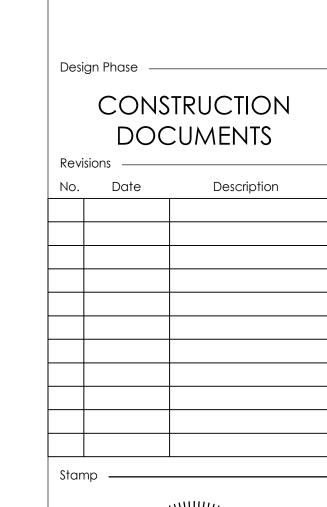


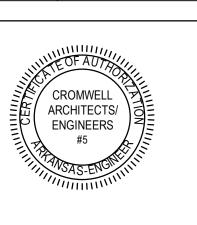


FAN BRACKET-



BIKE A X Z **RTHWEST** $\overline{\mathbb{Q}}$







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—EXTERIOR WALL

—CONCENTRIC TERMINATION KIT

→ EXHAUST

12" ABOVE FLOOR

7

CONCENTRIC HORIZONTAL GAS VENT THRU WALL

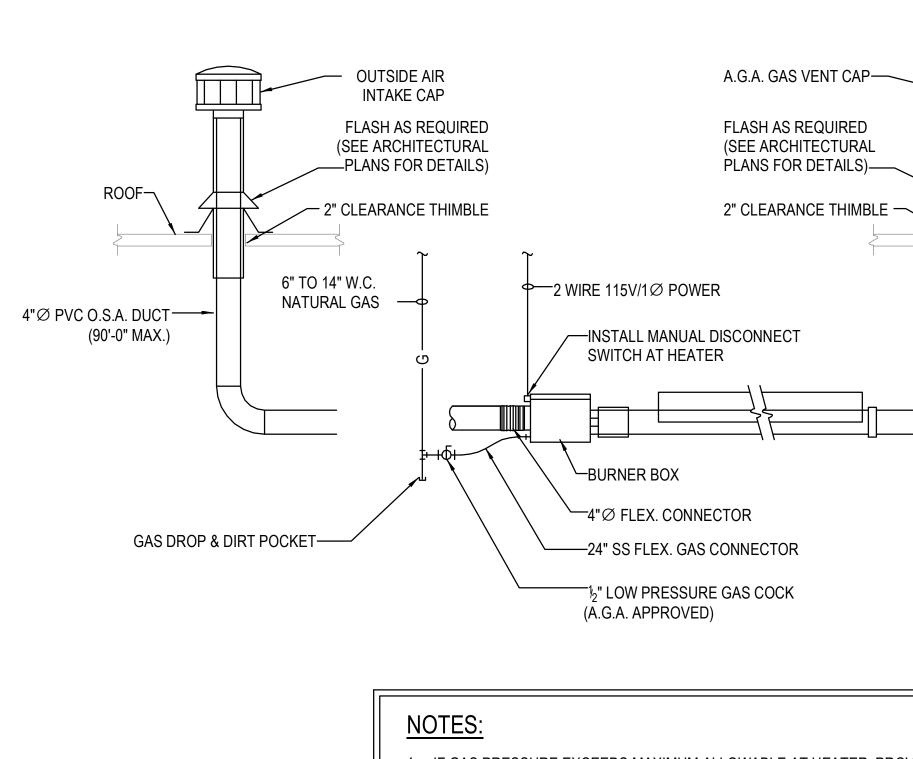
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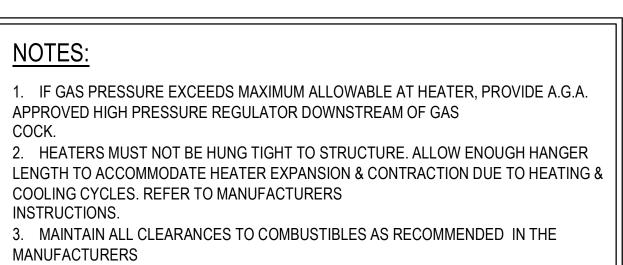
MECHANICAL DETAILS

Sheet Title -

Sheet Number —



INSTRUCTIONS.



TYPE "B" FLUE

4"Ø FOR VENTING OF

¹4"Ø SINGLE WALL

VENT PIPE

INDIVIDUAL HEATER

COMBUSTION AIR PIPE-

GAS VENT PIPE-

COMBUSTION AIR-

INTERIOR WALL

2 INFRARED HEATER
NOT TO SCALE

3 WELDING ARM DETAIL

1/8" = 1'-0"

0

8

16

32

PLYMOVENT®

DATE APPROVED

10/11/04

DESCRIPTION

TOP VIEW W/ WALL BRACKET

KUA-4 ARM

(TOP & SIDE VIEW)

WELDING EXHAUST														
ARK	SERVES	TYPE	DRIVE	FAN DATA			MOTOR DATA			MAX SONES	WEIGHT	MANUFACTURER	MODEL	REMARKS
				CFM	ESP	RPM	HP	VOLTS	PH	LEVEL	(LBS.)			
EF-1	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
EF-2	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
EF-3	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
EF-4	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
EF-5	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
EF-6	WELDING	SURFACE	DIRECT	700	2.4	3450	0.75	110	1	89	29	PLYMOVENT	FUA-1800	1, 2, 3
									1 1					

NOTES: 1. PROVIDE 24V LED LIGHT KIT. PROVIDE ES-90 STARTER/CONTROLLER OR EQUAL. 5. PROVIDE PLYMOVENT KUA-160/4H FLEXIBLE EXTRACTION ARM.

PROVIDE S100 MANUAL SWITCH OR EQUAL.
PROVIDE FAN DISCHARGE SILENCER.

INFRA-RED HEATERS											
LOCATION		HEATING SECTION	E	ELECTRICAL DATA				MANUEACTURER	MODEL	DEMARKO	
LOCATION	INPUT (MBH)	NAT. GAS INLET	LENGTH	MCA	MOCP	VOLTS	PH	(LBS.)	WANUFACTURER	IVIODEL	REMARKS
OODWORKING	40	1/2"	12'-0"	5	15	110	1	19	ROBERTS GORDON	CRV-B-2	1, 2, 3, 4, 5, 6
OODWORKING	80	1/2"	20'-0"	5	15	110	1	19	ROBERTS GORDON	CRV-B-4	1, 2, 3, 4, 5, 6
OODWORKING	80	1/2"	20'-0"	5	15	110	1	19	ROBERTS GORDON	CRV-B-4	1, 2, 3, 4, 5, 6
	OODWORKING	LOCATION INPUT (MBH) DODWORKING 40 DODWORKING 80	INPUT (MBH) NAT. GAS INLET OODWORKING 40 1/2" OODWORKING 80 1/2"	INPUT (MBH) NAT. GAS INLET LENGTH	INPUT (MBH) NAT. GAS INLET LENGTH MCA DODWORKING 40 1/2" 12'-0" 5 DODWORKING 80 1/2" 20'-0" 5	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP DODWORKING 40 1/2" 12'-0" 5 15 DODWORKING 80 1/2" 20'-0" 5 15	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP VOLTS DODWORKING 40 1/2" 12'-0" 5 15 110 DODWORKING 80 1/2" 20'-0" 5 15 110	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP VOLTS PH DODWORKING 40 1/2" 12'-0" 5 15 110 1 DODWORKING 80 1/2" 20'-0" 5 15 110 1	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP VOLTS PH (LBS.)	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP VOLTS PH (LBS.) MANUFACTURER	INPUT (MBH) NAT. GAS INLET LENGTH MCA MOCP VOLTS PH (LBS.) MANUFACTURER MODEL

1. OVERALL LENGTH INCLUDES CONTROL BOX (18") BUT DOES NOT INCLUDE DRAFT INDUCER. 5. PROVIDE MANUAL GAS CUT-OFF VALVES.

PROVIDE HANGING CHAIN KIT WITH "S" HOOKS. 6. PROVIDE VERTICAL VENT CAP.

B. PROVIDE LINE PRESSURE REGULATOR. 4. PROVIDE 36" FLEXIBLE GAS CONNECTORS.

HIGH VOLUME LOW SPEED CEILING FAN

MARK	SERVES	BLADE DIAMETER	DRIVE		МС	TOR DAT	A	WEIGHT	MANUFACTURER	MODEL	REMARKS
				RPM	HP	VOLTS	PH	(LBS.)			
HLVS-1	WOODWORKING	10'-0"	DIRECT	65	0.75	208	1	86	MACRO AIR	AVD370	1, 2
				•		•	•				
NOTES:	1 PROVIDE RAPID MOI	INT COMMERCIAL WIT	Ή LREAM HARDWA	RE KIT (LI	P TO SET	DROPLE	NGTH)				

SUPPLY GRILLE

RETURN GRILLE

RETURN GRILLE

PROVIDE DIGITAL REMOTE CONTROLLER.

	AIR D	EVICE	KEY NO. IF MORE THAN	A 8	NECK SIZE	
MARK	TYPE	DESCRIPTION	ONE SIZE	MANUFACTURER	MODEL	REMARKS
А	SUPPLY	SUPPLY DIFFUSER	SEE PLANS	PRICE	ASPD	1
В	RETURN	RETURN GRILLE	SEE PLANS	PRICE	80	2

NOTES: 1. FOR LAY-IN CEILING. WHITE, STEEL CONSTRUCTION, SQUARE PANEL FACE. PROVIDE MODEL "TRM" MOUNTING FRAME FOR GYPSUM CEILING

SEE PLANS

SEE PLANS

SEE PLANS

PRICE

PRICE

630

630

630FF

2. FOR LAY-IN CEILINGS. WHITE, STEEL CONSTRUCTION, PERFORATED SCREEN WITH 3/16"DIAMETER HOLES ON 1/4"STAGGERED CENTERS. PROVIDE SQUARE TO SQUARE OR ROUND TRANSITIONS AS REQUIRED. PROVIDE MODEL "TRM" MOUNTING FRAME FOR GYPSUM CEILING

3. PROVIDE 2" FILTER FRAME.

RETURN

SPLIT SYSTEM FURNACE - GAS HEAT

				FAN DA	ΛTA			HEATII	NG CAPACITY	(MBH)			COOLIN	G DATA		EVAPORAT	OR COIL			
MARK	SERVES	CFM	ESP	HP	VOLTS		OSA	INPUT	OUTPUT	A.F.U.E.	FLUE SIZE	CAPAC	CITY (MBH)	ENTERING	AIR TEMP.	MODEL	PRESSURE	MANUFACTURER	MODEL	REMARKS
		CFIVI	ESF	ПГ	VOLIS		034	INFUI	OUTPUT	A.F.U.E.		TOTAL	SENSIBLE	DB °F	WB °F	WODEL	DROP			
F-1	CLASSROOM	1600	1.0	.75	110	1	350	60	55.2	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-060-5-A	1, 2, 3, 4, 5
F-2	LOUNGE	800	1.0	.5	110	1	150	40	36.8	92%	SEE NOTE 1	22.8	17.0	80	67	RCFZ	0.2	RHEEM	R-92-1-T-040-3-A	1, 2, 3, 4, 5
F-3	WOODWORKING 112	1200	1.0	.75	110	1	275	85	78.2	92%	SEE NOTE 1	34.2	24.6	80	67	RCFZ	0.2	RHEEM	R-92-1-T-085-5-A	1, 2, 3, 4, 5
F-4	WOODWORKING 112	1200	1.0	.75	110	1	275	85	78.2	92%	SEE NOTE 1	34.2	24.6	80	67	RCFZ	0.2	RHEEM	R-92-1-T-085-5-A	1, 2, 3, 4, 5
F-5	WOODWORKING 112	1600	1.0	.75	110	1	275	85	78.2	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-085-5-A	1, 2, 3, 4, 5
F-6	WELDING 114	1600	1.0	.75	110	1	275	85	78.2	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-085-5-A	1, 2, 3, 4, 5
F-7	BIKE REPAIR 115	1600	1.0	.75	110	1	200	60	55	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-060-5-A	1, 2, 3, 4, 5
F-8	EXISTING BIKE REPAIR	1600	1.0	.75	110	1	275	60	55	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-060-5-A	1, 2, 3, 4, 5
F-9	EXISTING BIKE REPAIR	1600	1.0	.75	110	1	275	60	55	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-060-5-A	1, 2, 3, 4, 5
F-10	EXISTING BIKE REPAIR	1600	1.0	.75	110	1	275	60	55	92%	SEE NOTE 1	46.0	33.5	80	67	RCFZ	0.2	RHEEM	R-92-1-T-060-5-A	1, 2, 3, 4, 5
	·							·				·		·		·		<u> </u>	· · · · · · · · · · · · · · · · · · ·	·

5. PROVIDE RHEEM RXBM-AC61 AUXILIARY DRAIN PAN WITH FLOAT SWITCH FOR AUTOMATIC UNIT SHUT DOWN. SIZE ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE 2" FILTER RACK WITH MERV 8 PLEATED MEDIA FILTERS. PROVIDE THERMOSTAT CONTROLLED BY BUILDING AUTOMATION SYSTEM. 4. PROVIDE CONCENTRIC VENT KIT.

SPLIT SYSTEM - CONDENSING UNIT

MARK	SERVES	NOMINAL CAPACITY	COOLING CA	APACITY (MBH)		COMPRESSO	R DATA			CONDENSER	FAN DATA	\	ELEC	TRICAL	MANUFACTURER	MODEL	REMARKS
IVIARK	SERVES	(TONS)	TOTAL	SENSIBLE	NO.	RLH (EACH)	VOLTS	PH	NO.	FLA (EACH)	VOLTS	PH	MCA	MOCP	WANUFACTURER	MODEL	REWARKS
CU-1	CLASSROOM 100	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-2	LOUNGE 101	2	22.8	17.0	1	12	208	1	1	0.8	208	1	16	25	RHEEM	R-A-13-N-Z-24	1, 2, 3, 4
CU-3	WOOD WORKING 112	3	34.2	24.6	1	13	208	1	1	0.8	208	1	18	30	RHEEM	R-A-13-N-Z-36	1, 2, 3, 4
CU-4	WOOD WORKING 112	3	34.2	24.6	1	13	208	1	1	0.8	208	1	18	25	RHEEM	R-A-13-N-Z-36	1, 2, 3, 4
CU-5	WOOD WORKING 112	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-6	WELDING 114	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-7	BIKE REPAIR 115	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-8	EXISTING BIKE REPAIR	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-9	EXISTING BIKE REPAIR	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4
CU-10	EXISTING BIKE REPAIR	4	46.0	33.5	1	25	208	1	1	1.0	208	1	33	50	RHEEM	R-A-13-N-Z-48	1, 2, 3, 4

NOTES: 1. PROVIDE UNIT MOUNTED DISCONNECT. PROVIDE COMPRESSOR CRANKCASE HEATER.

> . PROVIDE COMPRESSOR HARD START KIT. . PROVIDE LOW AMBIENT KIT TO 30°.

EXHAUST FAN

MADIC	CEDVEC.	TVDE	DDIVE.	F	AN DATA		мото	R DATA	4	MAX	WEIGHT	MANUEACTURER	MODEL	DEMARKS
MARK	SERVES	TYPE	DRIVE	CFM	ESP	RPM	HP	VOLTS	PH	SONES LEVEL	(LBS.)	MANUFACTURER	MODEL	REMARKS
EF-1	WOMEN'S TLT	CEILING	DIRECT	75	0.15	900	15 WATTS	110	1	0.5	12	GREENHECK	SP-B80	1, 2, 3, 4, 6
EF-2	MEN'S TLT	CEILING	DIRECT	75	0.15	900	15 WATTS	110	1	0.5	12	GREENHECK	SP-B80	1, 2, 3, 4, 6
EF-3	UNISEX RR	CEILING	DIRECT	75	0.15	900	15 WATTS	110	1	0.5	12	GREENHECK	SP-B80	1, 2, 3, 4, 6
EF-4	WOODWORKING	WALL	DIRECT	4000	0.35	1160	0.8	110	1	16.5	83	GREENHECK	AER-24-02-0617	2, 3, 4, 5, 7

NOTES: 1. INTERLOCKED WITH LIGHTS. 5. PROVIDE WALL SWITCH. PROVIDE ELECTRICAL DISCONNECT. 6. PROVIDE MANUFACTURER'S WALL CAP. PROVIDE BACKDRAFT DAMPER. 7. PROVIDE WALL HOUSING AND 45° WEATHER HOOD.

DUCTLESS SPLIT SYSTEM

						D		LUU	3 CL		ISIL	IVI				
M	ARK	SERVES	INDOOR UNIT TYPE	COOLING (MBH)	HEATING (MBH)	CFM		ELECTRIC	CAL DATA		SEER	REFRIG.	MANUFACTURER	MC	DEL	REMARKS
INDOOR	OUTDOOR			(IVIDIT)	(IVIDIT)		MCA	MOCP	VOLTS	PH				INDOOR	OUTDOOR	
DSS-1		OFFICE 1	WALL MOUNTED	8.9	9.0	390						R-410a	MITSUBISHI	NTXWST09B112AA		2, 3, 4, 5, 7, 8
DSS-2	DSHP-1	OFFICE 2	WALL MOUNTED	8.9	9.0	390	22	25	208	2	17.6	R-410a	MITSUBISHI	NTXWST09B112AA	NTXMMX36A142CA	2, 3, 4, 5, 7, 8
DSS-3	ם מסחר-ו	OFFICE 3	WALL MOUNTED	8.9	9.0	390		25	200	3	17.0	R-410a	MITSUBISHI	NTXWST09B112AA	TINTAIVIIVIASOAT42CA	2, 3, 4, 5, 7, 8
DSS-4		OFFICE 4	WALL MOUNTED	8.9	9.0	390						R-410a	MITSUBISHI	NTXWST09B112AA		2, 3, 4, 5, 7, 8
DSS-5	DSCU-1	I.T. CLOSET	WALL MOUNTED	12.0	N/A	310	11	28	208	3	21.0	R-410a	MITSUBISHI	PKA-A12LA	PUY-A12NKA7	1, 2, 3, 4, 5, 7, 7

NOTES: 1. COOLING ONLY UNIT. 5. LOW VOLTAGE, MANUFACTURER'S WIRED THERMOSTAT. PROVIDE CONDENSATE PUMP WHERE APPLICABLE. PROVIDE FRESH AIR INTAKE KIT. 3. PROVIDE LOW AMBIENT KIT DOWN TO 0°F. 7. PROVIDE UNIT MOUNTED DISCONNECT. 4. OUTDOOR UNIT PROVIDES POWER TO INDOOR UNIT. 8. PROVIDE BACNET CARD.

4. PROVIDE WITH RUSKIN 1120V TWO POSITION ACTUATOR WITH SPRING RETURN.

4. PROVIDE BIRDSCREEN.

ENERGY RECOVERY UNIT (AIR-TO-AIR)

							-		O 1 1 1		V — I V			(, , , , , , , , , , , , , , , , , , ,		,,,	'' '/					
		CLIDDLY	EVILATION		COOLING	G MODE			HEATIN	G MODE			SUPPL	Y FAN			ELECT	RICAL				
MARK	SERVES	SUPPLY CFM	EXHAUST CFM	ENT. Alf	R TEMP.	LVG. All	R TEMP.	ENT. All	R TEMP.	LVG. All	R TEMP.	ПП	ESP	VOLTS	ВП	MCV	MOCP	VOLTS	ВП	MANUFACTURER	MODEL	REMARKS
		OI W	OI W	DB °F	WB °F	DB°F	WB°F	DB °F	WB °F	DB°F	WB°F	115	LOF	VOLIS		IVICA	WOOF	VOLIS	FII			
ERU-1	CLASSROOM	350	350	94.6	74.7	75	62.3	10.3	8.3	70	51.1	0.6	0.99	208	1	4.9	15	208	1	RENEWAIRE	EV450	1
ERU-2	EXISTING BIKE REPAIR	825	700	946	74.7	75	62.3	10.3	9.3	70	51.1	0.75	0.65	208	1	10.1	15	208	1	RENEWAIRE	HE1X	1

NOTES: 1. PROVIDE BACNET CONTROLLER.

2. PROVIDE OCCUPANCY SENSOR.

LOUVERS

MARK	SERVES	DESCRIPTION	SIZE (W/L)	MAX PRESSURE DROP (IN.)	MIN FREE AREA (SQ. FT.)	VELOCITY (FT./MIN.)	MANUFACTURER	MODEL	REMARKS
LV-1	ERU-1	OSA	14"x14"	0.06	0.42	713	RUSKIN	L6375D	2, 3
LV-2	EF-4	OSA	24"x12"	0.11	0.97	1032	RUSKIN	ELBD375I	1, 2, 3
LV-3	EF-4	OSA	24"x12"	0.11	0.97	1032	RUSKIN	ELBD375I	1, 2, 3
LV-4	EF-4	OSA	24"x12"	0.11	0.97	1032	RUSKIN	ELBD375I	1, 2, 3
LV-5	EF-4	OSA	24"x12"	0.11	0.97	1032	RUSKIN	ELBD375I	1, 2, 3
LV-6	WELDING	EA	30"X30"	0.43	2.51	1789	RUSKIN	L6375D	2, 3
LV-7	F-2	OSA	14"x14"	0.05	0.19	920	RUSKIN	L6375D	2, 3
LV-8	F-3	OSA	14"x14"	0.05	0.19	920	RUSKIN	L6375D	2, 3
LV-9	F-4	OSA	14"x14"	0.05	0.19	920	RUSKIN	L6375D	2, 3
LV-10	F-5	OSA	14"x14"	0.05	0.19	920	RUSKIN	L6375D	2, 3
LV-11	F-6	OSA	14"x14"	0.05	0.19	920	RUSKIN	L6375D	2, 3
LV-12	WELDING	OSA	38"x38"	0.05	0.19	920	RUSKIN	L6375D	2, 3, 4
LV-13	ERU-2	OSA	18"x18"	0.75	0.8	1119	RUSKIN	L6375D	2, 3
LV-14	ERU-1	EA	14"x14"	0.06	0.42	713	RUSKIN	L6375D	2, 3
11/15	EDIT 3	ΕΛ	10",/10"	0.75	0.0	020	DLICKINI	1 627ED	0.0

LV-15 | ERU-2 | EA | 18"x18" | 0.75 | 0.8 | 920 | RUSKIN L6375D DESCRIPTION: OSA: OUTSIDE AIR EA: EXHAUST AIR CA: COMBUSTION AIR NOTES: 1. PROVIDE WITH BELIMO 120V TWO POSITION ACTUATOR WITH SPRING RETURN. PROVIDE INSECT SCREEN. B. BAKED ENAMEL FINISH, COLOR TABLE SELECTED BY ARCHITECT FROM STANDARD COLORS.

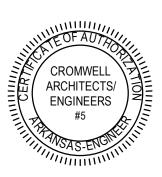
[] CROMWELL 1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com



BIKE ITSII NWACC

CONSTRUCTION DOCUMENTS

No. Date Description





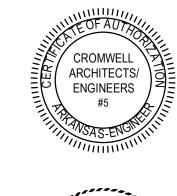
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MECHANICAL SCHEDULES

Sheet Number ——





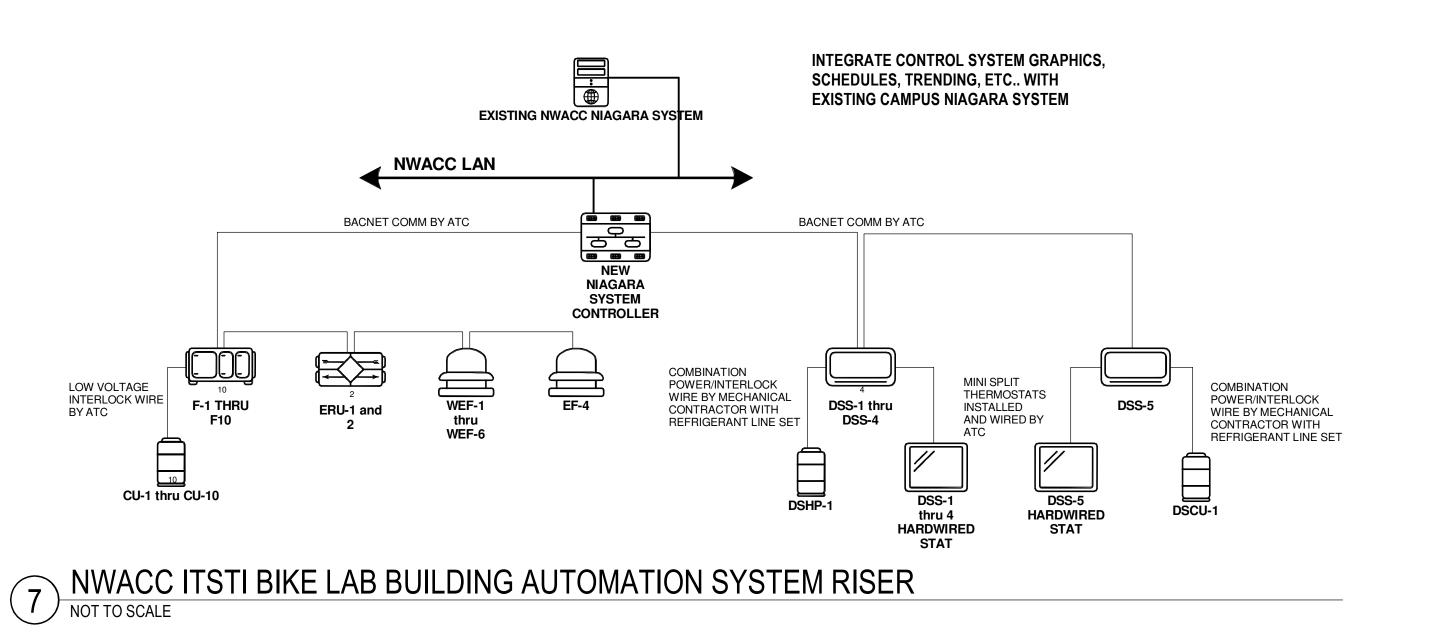
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2023-049 Issue Date 06-30-2023

MECHANICAL CONTROLS

Sheet Number



Sequence of Operation: F-1/CU-1 THRU F-10/CU-10 [QTY: 10]

Building Automation System Interface: The Building Automation System (BAS) shall send the controller Occupied Bypass, and Occupied/Unoccupied modes. If communication is lost with the BAS the controller shall operate using default modes and setpoints.

Occupied: During occupied periods, the supply fan shall run continuously for units not associated with an energy recovery ventilator. For units with an energy recovery ventilator, the fans shall cycle with

heating or cooling calls. During occupied periods, the outside air damper shall open to maintain minimum ventilation requirements. Upon a call for DX cooling, the unit controller shall enable the fixed speed compressor. The compressor shall be cycled on and off to maintain the active space temperature setpoint. If the space temperature sensor fails, the DX cooling shall be disabled, the gas heat shall be disabled, and an alarm shall annunciate at the BAS. Unoccupied:

When the space temperature is below the unoccupied heating setpoint of 60.0 deg. F (adj.) the supply fan shall be commanded on, the outside air damper shall remain closed and the gas heat shall be enabled. When the space temperature rises above the unoccupied heating setpoint of 60.0 deg. F (adj.) plus the unoccupied differential of 4.0 deg. F (adj.) the supply fan shall stop and the gas heat shall be disabled. When the space temperature is above the unoccupied cooling setpoint of 85.0 deg. F (adj.) the supply fan shall be commanded on and the DX cooling shall be enabled. When the space temperature falls below the unoccupied cooling setpoint of 85.0 deg. F minus the unoccupied differential 4.0 deg. F (adj.) the supply fan shall stop and the DX cooling

the unit controller shall maintain the space temperature to the space temperature offset setpoint. Outside air damper shall remain enabled to provide minimum ventilation.

The BAS shall monitor the status of the ON and CANCEL buttons of the space temperature sensor. When an occupied bypass request is received from a space sensor, the unit shall transition from its current occupancy mode to occupied bypass mode and the unit shall maintain the space temperature to the occupied setpoints (adj.).

When the space temperature rises above the occupied cooling setpoint the mode shall transition to cooling. When the space temperature falls below the occupied heating setpoint the mode shall transition to heating. When the space temperature is above the occupied cooling setpoint or below the occupied heating setpoint the mode shall remain in its last state. If the space temperature sensor fails the mode shall remain in its last state and an alarm shall annunciate at the BAS. If the local and communicated setpoints fail the controller shall disable the supply fan and an alarm shall annunciate at the BAS. Supply Fan:

The supply fan shall be enabled while in the occupied mode and cycled on during the unoccupied mode, except units served by an associated energy recovery ventilator. Supply fans for units associated with an energy recovery ventilator shall cycle with calls on cooling or heating. A user option within the graphics shall allow the user to switch the fans to run continuously during When the supply fan is commanded on but fails to prove status an alarm shall be annunciated at the BAS and the unit disabled until the alarm is reset.

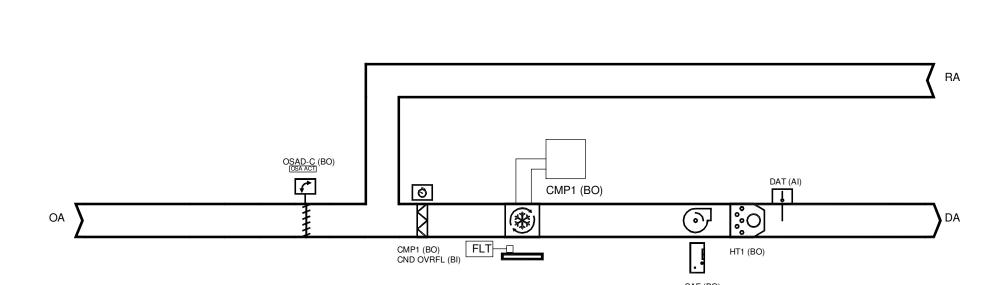
Filter Timer: The fan-run time (hrs) shall be compared to the filter maintenance timer setpoint. Once the setpoint is reached a filter timer alarm diagnostic shall annunciate at the BAS. When the diagnostic is cleared, the filter-maintenance timer is reset to zero, and the timer begins accumulating fan-run time again. Condensate Overflow Shutdown:

The unit shall shut down in response to a signal from the condensate overflow sensor. The sensor shall be interlocked to the unit cooling controller for immediate shutdown of cooling.

For units serving a space equipped with an overhead door, a door switch per overhead door shall de-active the units heating and cooling when any overhead door is open. Exhaust Fan Monitoring:

For unit(s) serving the wood shop/small engine repair shop, when EF-4, as monitored by a CT, is active, the furnace unit heating and cooling shall be disabled. For unit(s) serving the metal shop, whenever any welding exhaust fan (WEF) is activated, as monitored by a CT, the associated furnace unit heating and cooling shall be disabled.

DS DOOR SWITCH CBI TYPICAL PER OVERHEAD DOOR. FOR QUANTITY.



LOW VOLTAGE

ATC. NO BAS

TEMPERATURE

MONITORED VIA

THERMOSTAT PROVIDED

WITH INFRARED HEATERS,

INSTALLED AND WIRED BY

INTEGRATION. ROOM

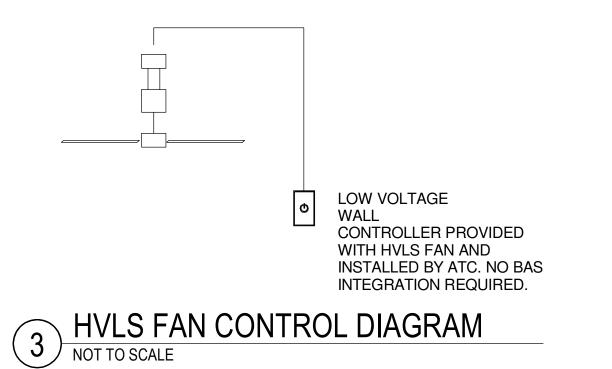
ASSOCIATED FURNACE

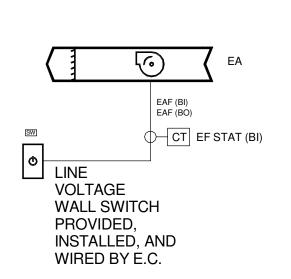
UNIT ZONE SENSOR.

6 F-1/CU-1 THRU F-10/CU-10 CONTROL DIAGRAM
NOT TO SCALE

INFRARED HEATER CONTROL DIAGRAM

4) NOT TO SCALE

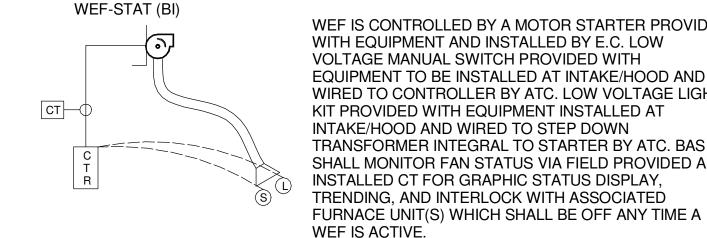




EF-4 CONTROL DIAGRAM 2 EF-4 CO NOT TO SCALE

Sequence of Operation: EF-4 Building Automation System Interface:

EF-4 IS STARTED AND STOPPED VIA A LINE VOLTAGE WALL SWITCH PROVIDED AND INSTALLED BY THE E.C. BAS SHALL MONITOR STATUS OF FAN VIA A CT FOR GRAPHIC STATUS DISPLAY, TRENDING, AND INTERLOCK WITH ASSOCIATED FURNACE UNIT(S) WHICH SHALL BE OF ANY TIME EF-4 IS ACTIVE.



WEF IS CONTROLLED BY A MOTOR STARTER PROVIDED WITH EQUIPMENT AND INSTALLED BY E.C. LOW VOLTAGE MANUAL SWITCH PROVIDED WITH EQUIPMENT TO BE INSTALLED AT INTAKE/HOOD AND WIRED TO CONTROLLER BY ATC. LOW VOLTAGE LIGHT KIT PROVIDED WITH EQUIPMENT INSTALLED AT INTAKE/HOOD AND WIRED TO STEP DOWN TRANSFORMER INTEGRAL TO STARTER BY ATC. BAS SHALL MONITOR FAN STATUS VIA FIELD PROVIDED AND INSTALLED CT FOR GRAPHIC STATUS DISPLAY, TRENDING, AND INTERLOCK WITH ASSOCIATED

WELDING EXHAUST FAN CONTROL DIAGRAM

NOT TO SCALE

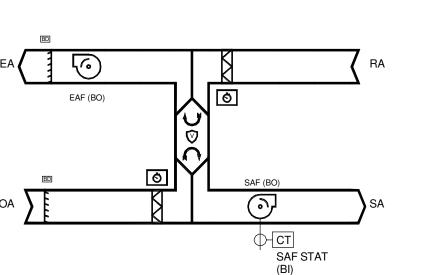
SEQUENCE OF OPERATION: ERU-1 AND 2 [QTY: 2] BUILDING AUTOMATION SYSTEM INTERFACE:

THE BUILDING AUTOMATION SYSTEM (BAS) WILL ALLOW THE USER TO MONITOR THE STATUS OF THE FANS OF THE ENERGY RECOVERY VENTILATOR, AND OVERRIDE IT'S OPERATION BETWEEN OCCUPIED AND UNOCCUPIED. OCCUPIED/UNOCCUPIED PERIODS WILL GENERALLY BE CONTROLLED BY USER DEFINED OPERATIONAL SCHEDULE. IF ASSOCIATED FURNACE UNITS ARE PUT INTO OCCUPIED BYPASS THE ENERGY RECOVERY UNITS SHALL ALSO ENTER THE OCCUPIED MODE FOR THE SAME TIME PERIOD AS THE ASSOCIATED FURNACE UNITS.

DURING OCCUPIED PERIODS, THE ENERGY RECOVERY VENTILATOR SHALL RUN CONTINUOUSLY.

DURING UNOCCUPIED PERIODS THE ENERGY RECOVERY VENTILATOR SHALL BE DISABLED.

FILTER STATUS: THE FAN-RUN TIME (HRS) SHALL BE COMPARED TO THE FILTER MAINTENANCE TIMER SETPOINT. ONCE THE SETPOINT IS REACHED A FILTER TIMER ALARM DIAGNOSTIC SHALL ANNUNCIATE AT THE BAS. WHEN THE DIAGNOSTIC IS CLEARED, THE FILTER-MAINTENANCE TIMER IS RESET TO ZERO, AND THE TIMER BEGINS ACCUMULATING FAN-RUN TIME AGAIN.

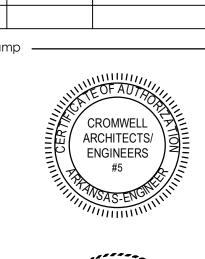


ERU-1 / ERU-2 CONTROL DIAGRAM NOT TO SCALE





		TRUCTION CUMENTS
No.	Date	Description
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Notes

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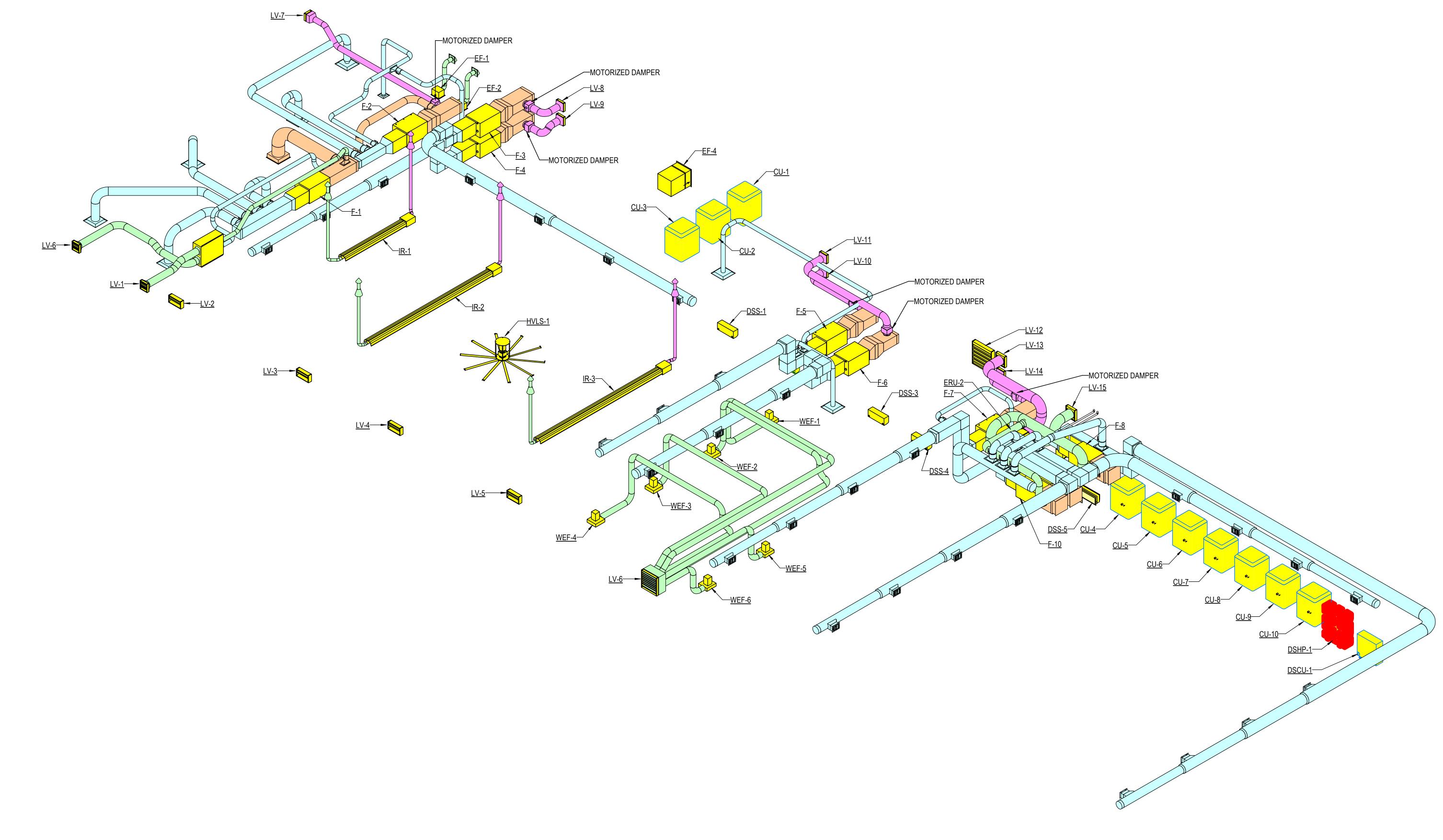
Project Number

2023-049
Issue Date

06-30-2023

MECHANICAL ISOMETRICS

Sheet Number



ELECTRICAL SYMBOLS

RECEPTACLES (MOUNTED 18" AFF UNLESS INDICATED OTHERWISE)

- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- DUPLEX RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R) MOUNT 4" ABOVE COUNTER TOP, SINK, OR BACKSPLASH (IF PRESENT)
- SINGLE RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- FLOOR RECEPTACLE OUTLET (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- SINGLE RECEPTACLE OUTLET (50A, 250V, 3 POLE, 3 WIRE, NEMA 10-50R)
- SINGLE RECEPTACLE OUTLET (20A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-20R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 6-30R)
- SINGLE RECEPTACLE OUTLET (30A, 250V, 3 POLE, 4 WIRE, TWIST-LOCK, GROUNDING TYPE,
- SINGLE SPECIAL-PURPOSE RECEPTACLE OUTLET; NUMBER CORRESPONDS TO THE SPECIAL-PURPOSE RECEPTACLE SCHEDULE
- SINGLE RECEPTACLE FOR ELECTRIC RANGE (50A, 125/250V, 3 POLE, 4 WIRE, GROUNDING TYPE, NEMA 14-50R)
- DUPLEX RECEPTACLE MOUNTED IN CEILING (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)
- TWO (2) DUPLEX RECEPTACLES FLOOR MOUNTED IN DOUBLE GANG BACKBOX (20A, 125V, 2 POLE, 3 WIRE, GROUNDING TYPE, NEMA 5-20R)

<u>LIGHT FIXTURES</u> (SEE FIXTURE SCHEDULE ON E-603 FOR TYPE)

LIGHT FIXTURE, CEILING MOUNTED

LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT

LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.

LIGHT FIXTURE, WALL MOUNTED

LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED

LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, ON EMERGENCY CIRCUIT

LIGHT FIXTURE, INDUSTRIAL STRIP, SURFACE OR PENDANT MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.

LIGHT FIXTURE, CEILING MOUNTED

- LIGHT FIXTURE, CEILING MOUNTED, ON EMERGENCY CIRCUIT
- LIGHT FIXTURE, CEILING MOUNTED, WITH EMERGENCY SELF CONTAINED BATTERY PACK. BATTERY PACK IS TO REMAIN UNSWITCHED.
- LIGHT FIXTURE, WALL MOUNTED
- EMERGENCY BATTERY POWERED LIGHTING UNIT, WITH SELF CONTAINED BATTERY, CHARGER, ETC. (REFER TO FIXTURE SCHEDULE FOR BATTERY TYPE, VOLTAGE, LAMP TYPE, WATTAGE, ETC.) TRIANGLES DEPICT QUANTITY AND AIMING OF LAMP HEADS
- EXIT SIGN, LIGHTED, CEILING MOUNTED. SHADED AREA INDICATES FACE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- EXIT SIGN, LIGHTED, WALL MOUNTED AT 7'-6" AFF (TO BOTTOM OF SIGN) UNLESS INDICATED OTHERWISE. ARROW DEPICTS DIRECTIONAL ARROW ON SIGN. WHEN REQUIRED BY THE FIXTURE SCHEDULE, AN EMERGENCY SELF-CONTAINED BATTERY PACK IS TO REMAIN UNSWITCHED.
- TRACK LIGHT, ARROW INDICATES DIRECTION OF BEAM

DOCK LIGHT

PARKING AREA LIGHT FIXTURE, POLE MOUNTED

LIGHT FIXTURE IDENTIFICATION /- LOWER CASE LETTER BESIDE FIXTURE

SWITCH CONTROL (WHERE APPLICABLE) UPPER CASE LETTER BESIDE EACH

DENOTES FIXTURE TYPE.

SWITCHGEAR

MAGNETIC MOTOR STARTER (FURNISHED BY DIVISION 23, UNLESS NOTED OTHERWISE)

ELECTRICAL PANELBOARD, FLUSH MOUNTED

ELECTRICAL PANELBOARD, SURFACE MOUNTED

EXISTING ELECTRICAL PANELBOARD, FLUSH MOUNTED

EXISTING ELECTRICAL PANELBOARD, SURFACE MOUNTED

SAFETY SWITCH; 30A CURRENT RATING UNLESS NOTED OTHERWISE. +4'-0" TO HANDLE

FUSIBLE SAFETY SWITCH; CURRENT RATING AND FUSE RATING NOTED. +4'-0" TO HANDLE

CIRCUIT BREAKER IN WALL MOUNTED ENCLOSURE

ELECTRICAL TRANSFORMER, FLOOR MOUNTED UNLESS INDICATED OTHERWISE

ELECTRICAL SYMBOLS

TELEPHONE/COMMUNICATIONS/DATA (OUTLETS SHALL BE MOUNTED 18" AFF UNLESS INDICATED OTHERWISE) PROVIDE CAT-6 CABLE TO EACH DROP AND RUN BACK TO DATA SERVER CLOSET 111. COORDINATE WITH OWNER FOR FINAL TERMINATION LOCATION OF ALL DROPS.

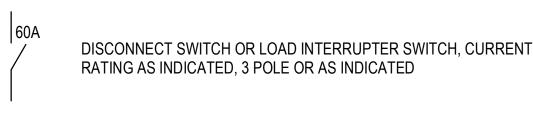
- TELEPHONE OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE. SUBSCRIPT: W - WALL MOUNTED AT 54" AFF:
- TELEPHONE FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE.
- DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE. H - DENOTES A CAT-6 CABLE WITH HDMI ADAPTERS TO FEED TV'S.
- DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE.
- DATA CEILING OUTLET. OUTLET BOX WITH 1" C STUBBED FROM CEILING SPACE AND CAT-6 CABLE. H - DENOTES A CAT-6 CABLE WITH HDMI ADAPTERS TO FEED TV'S.
- COMBINATION VOICE/DATA OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE.
- COMBINATION VOICE/DATA FLOOR OUTLET. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE.

4'-0" HIGH x 3/4" THICK FIRE-RETARDANT PLYWOOD BACKBOARD. SEE PLANS FOR LENGTH.

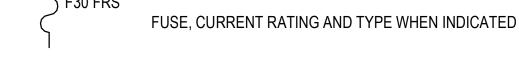
WIRELESS ACCESS POINT OUTLET CEILING MOUNTED. OUTLET BOX WITH 1" C STUBBED ABOVE ACCESS CEILING SPACE AND CAT 6 CABLE. NUMBER INDICATES QUANTITY OF DATA JACKS. ABSENCE OF A NUMBER INDICATES ONE DATA JACK.

SINGLE LINE

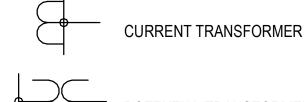
CIRCUIT BREAKER, TRIP RATING AS INDICATED, 3 POLE OR AS INDICATED



SWITCH WITH GROUND FAULT INTERRUPTER



TRANSFORMER, DESCRIPTION AS NOTED OR PER SCHEDULE



POTENTIAL TRANSFORMER

PHASE SELECTOR SWITCH

VOLTMETER

WATT-HOUR METER

SURGE PROTECTIVE DEVICE **AUTOMATIC TRANSFER SWITCH**

GENERATOR

SWITCHES (MOUNTED AT 46", UNLESS INDICATED OTHERWISE) (LOWER CASE LETTER INDICATES DEVICES CONTROLLED)

SWITCH, SINGLE POLE, 20A

SWITCH, DOUBLE POLE, 20A SWITCH

3-WAY, 20A SWITCH

4-WAY, 20A SWITCH

\$3D 3-WAY DIMMER, 20A SWITCH

SINGLE POLE SWITCH, WITH PILOT LIGHT SINGLE POLE MANUAL MOTOR STARTING SWITCH, WITH THERMAL

OVERLOAD ELEMENT AND PROVISIONS FOR LOCKING OPEN

SWITCH, DIMMING (COORDINATE WITH FIXTURE MANUFACTURER)

[⊅]X SWITCH, MULLION SWITCH

\$LV LOW VOLTAGE WITH MOMENTARY CONTACTS SWITCH

OCCUPANCY SENSOR, WALL MOUNTED, DUAL TECHNOLOGY

SOD OCCUPANCY SENSOR & DIMMER, WALL MOUNTED, DUAL TECHNOLOGY

OCCUPANCY SENSOR, CEILING MOUNTED, DUAL TECHNOLOGY

PHOTOCELL

MULTIPLE DEVICES LOCATED SIDE BY SIDE (OR ABOVE AND BELOW, IF DIFFERENT ELEVATIONS ARE SHOWN) AT THE LOCATION INDICATED)

ELECTRICAL SYMBOLS

MISCELLANEOUS

- JUNCTION BOX, WALL MOUNT AS INDICATED
- JUNCTION BOX, CEILING MOUNT AS INDICATED
- CLOCK OUTLET, WALL MOUNTED 7'-6" AFF
- 10' BARE #6 COILED & EXOTHERMICALLY WELDED TO COLUMN
- CABLE TELEVISION OUTLET BOX MOUNTED AS INDICATED WITH CONDUIT STUBBED ABOVE CEILING. PROVIDE CAT-6 CABLE TO IT CLOSET 111.

CONDUIT RUN, EXPOSED CONDUIT RUN, CONCEALED FLEXIBLE CONDUIT

1GL1-1,3,5

CIRCUIT INFORMATION - HOMERUN DESIGNATION — PHASE CONDUCTOR(S) EQUIPMENT GROUND (PROVIDE EQUIPMENT GROUND FOR ALL BRANCH CIRCUITS AND FEEDERS, WHETHER SHOWN OR NOT. WHERE SHOWN TO SHARE A CONDUIT, BRANCH CIRCUITS SHALL SHARE EQUIPMENT GROUND UNLESS INDICATED OTHERWISE) — NEUTRAL — CONDUIT SIZE

- CIRCUIT DESIGNATION INDICATES PANELBOARD AND CIRCUIT(S) TO WHICH HOMERUN IS CONNECTED.
- WIRE SIZE SHALL BE NO. 12, UNLESS INDICATED OTHERWISE.

- WIRE SIZE

CIRCUIT DESIGNATION

- CONDUIT SIZE SHALL BE MINIMUM ALLOWED BY SPECIFICATIONS FOR NO. 12 SIZE WIRE, 3/4" FOR NO. 10, UNLESS INDICATED OTHERWISE.
- CIRCUIT INFORMATION PROVIDED AT THE HOMERUN SYMBOL SHALL APPLY THE ENTIRE LENGTH OF THE CIRCUIT (FROM PANELBOARD TO LAST LOAD).
- WHEN NO PHASE CONDUCTOR OR NEUTRAL IS INDICATED AT THE HOMERUN SYMBOL, PROVIDE ONE PHASE CONDUCTOR AND ONE NEUTRAL, BOTH NO. 12.
- SWITCHING CONDUCTORS. CONDUCTORS FOR NIGHT LIGHT CIRCUITS. (UNSWITCHED), ETC. ARE NOT SHOWN, BUT SHALL BE PROVIDED AS NECESSARY.
- WIRE SIZE INDICATED ON THESE DOCUMENTS AS INDICATED BY "NO." OR "#" HAS THE SAME MEANING AS "AWG" (N.E.C. NOMENCLATURE). (I.E."NO. 12" OR "# 12" MEANS "12AWG" IN N.E.C. NOMENCLATURE.)

ELECTRICAL SYMBOLS



501.372.2900

SECURITY: OUTLET BOX WITH 1" C STUBBED ABOVE ACCESSIBLE CEILING SPACE AND CAT-6 CABLE. MAGNETIC ALARM SWITCH **DURESS ALARM SWITCH** MOTION DETECTOR

CCTV CAMERA LOCATION, CEILING MOUNTED UNLESS INDICATED OTHERWISE KEYPAD ACCESS ALARM OVERRIDE CONTROL

ELECTRIC PUSH-BUTTON

CAPACITIVE DETECTOR

CARD READER

MD

ELECTRIC STRIKE REQUEST TO EXIT PUSH BUTTON

ABBREVIATIONS:

AFF = ABOVE FINISHED FLOOR AFL = ABOVE FINISHED LANDING GFI = GROUND FAULT INTERRUPTER IG = ISOLATED GROUND UIO = UNLESS INDICATED OTHERWISE WP = WEATHERPROOF CONSTRUCTION OF/OI = OWNER FURNISHED / OWNER INSTALLED CF/CI = CONTRACTOR FURNISHED / CONTRACTOR INSTALLED TYP = TYPICAL NIC = NOT IN CONTRACT

GENERAL SYMBOLS NOTES:

1. ALL SYMBOLS MAY NOT BE USED.

2. MOUNTING HEIGHTS ARE ABOVE FINISHED FLOOR OR GRADE TO THE CENTER LINE OF THE OUTLET, DEVICE, ETC. UNLESS INDICATED OTHERWISE.

3. LARGE AMPACITY CIRCUIT DESIGNATION EXAMPLE: 4 SETS OF 3#500, #250, #1/0G, 4"C MEANS IN EACH OF FOUR 4" CONDUITS INSTALL THREE 500 kCM CONDUCTORS, ONE 250 kCM NEUTRAL AND ONE #1/0 GROUND.



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Design Phase -CONSTRUCTION

DOCUMENTS

No.	Date	Description

CROMWELL ARCHITECTS/ **ENGINEERS**

> ∩REGISTERED **ENGINEER**

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No. 9401

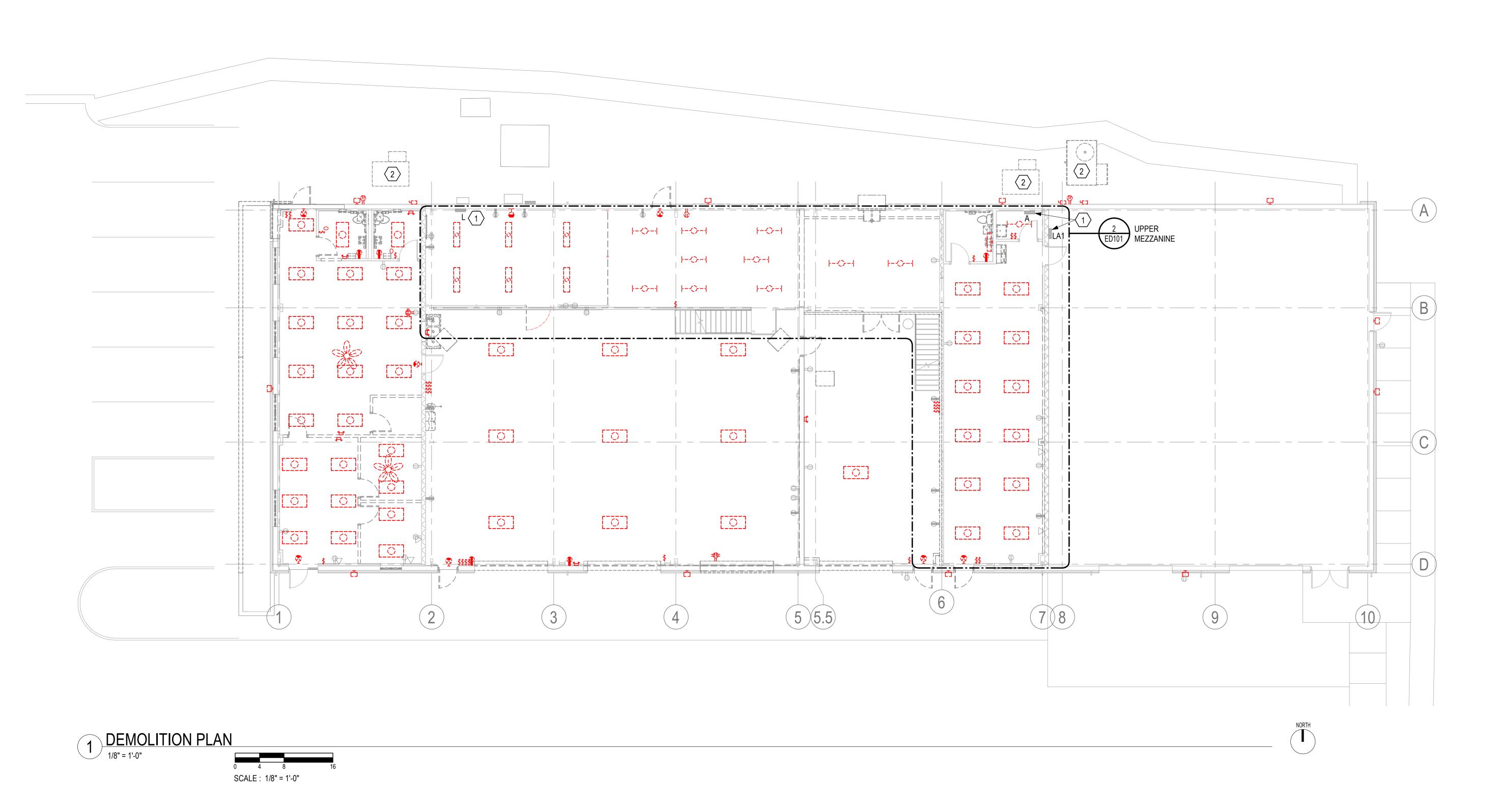
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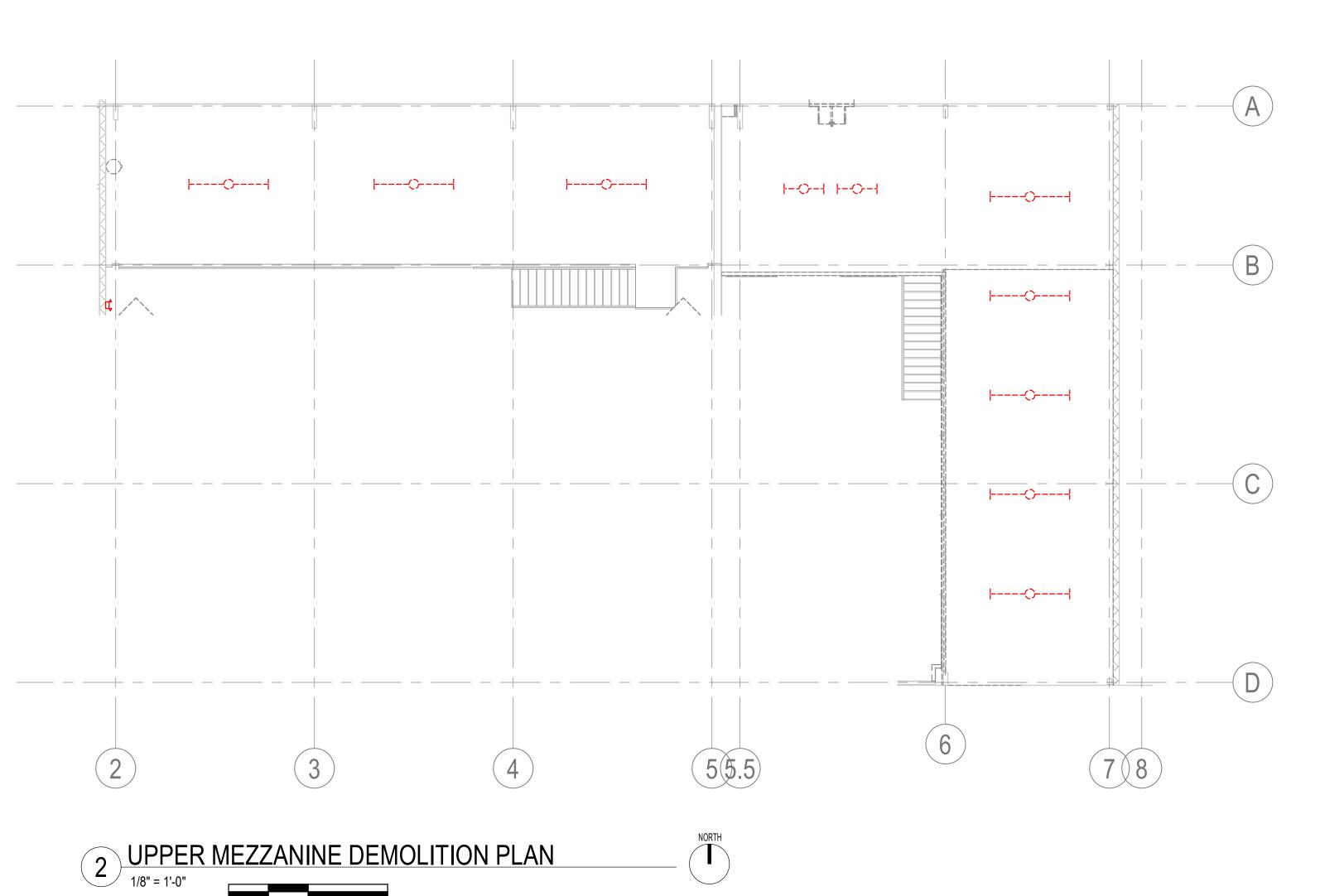
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06-30-2023

ELECTRICAL LEGEND

Sheet Number —





NORTH

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

GENERAL NOTES:

A. INFORMATION REGARDING EXISTING CONDITIONS WAS TAKEN FROM RECORD DRAWINGS AND CASUAL SITE OBSERVATIONS. INFORMATION MAY BE INCOMPLETE. VERIFY AND DOCUMENT EXISTING CONDITIONS PRIOR TO DEMOLITION.

B. UNLESS INDICATED OTHERWISE, REMOVE ALL ELECTRICAL DEVICES SHOWN DASHED ON THIS SHEET. MODIFY CIRCUIT(S) AS REQUIRED FOR REMAINING DEVICES TO REMAIN OPERATIONAL.

C. ALL EXISTING PANELBOARDS AND FIRE ALARM CONTROL PANEL ARE EXISTING TO REMAIN.

D. IN AREAS TO BE DEMOLISHED REMOVE LIGHT FIXTURES, LIGHTING CIRCUITS AND LIGHTING CONTROLS IN WALLS, CEILINGS, MILLWORK, ETC., WHETHER SHOWN ON THIS PLAN OR NOT.

E. REMOVE CONDUIT AND CONDUCTORS OF DEMOLISHED CIRCUITS TO THE POINT OF ORIGIN (PANELBOARD FOR CIRCUITS TO BE COMPLETELY REMOVED AND J-BOX FOR CIRCUITS TO BE PARTIALLY REMOVED). INSTALL COVERS ON HOLES IN J-BOXES AND PANELBOARDS. MARK BREAKERS "SPARE" FOR CIRCUITS COMPLETELY REMOVED.

KEYED NOTES:

(1) EXISTING PANELBOARD TO REMAIN.

(2) MECHANICAL EQUIPMENT IS BEING REMOVED. DISCONNECT POWER AND REMOVE THE ENTIRE CIRCUITRY BACK TO PANEL OR NEAREST JUNCTION BOX TO REMAIN.



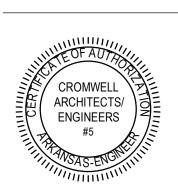
1300 East 6th Street Little Rock, AR 72202 501.372.2900 cromwell.com



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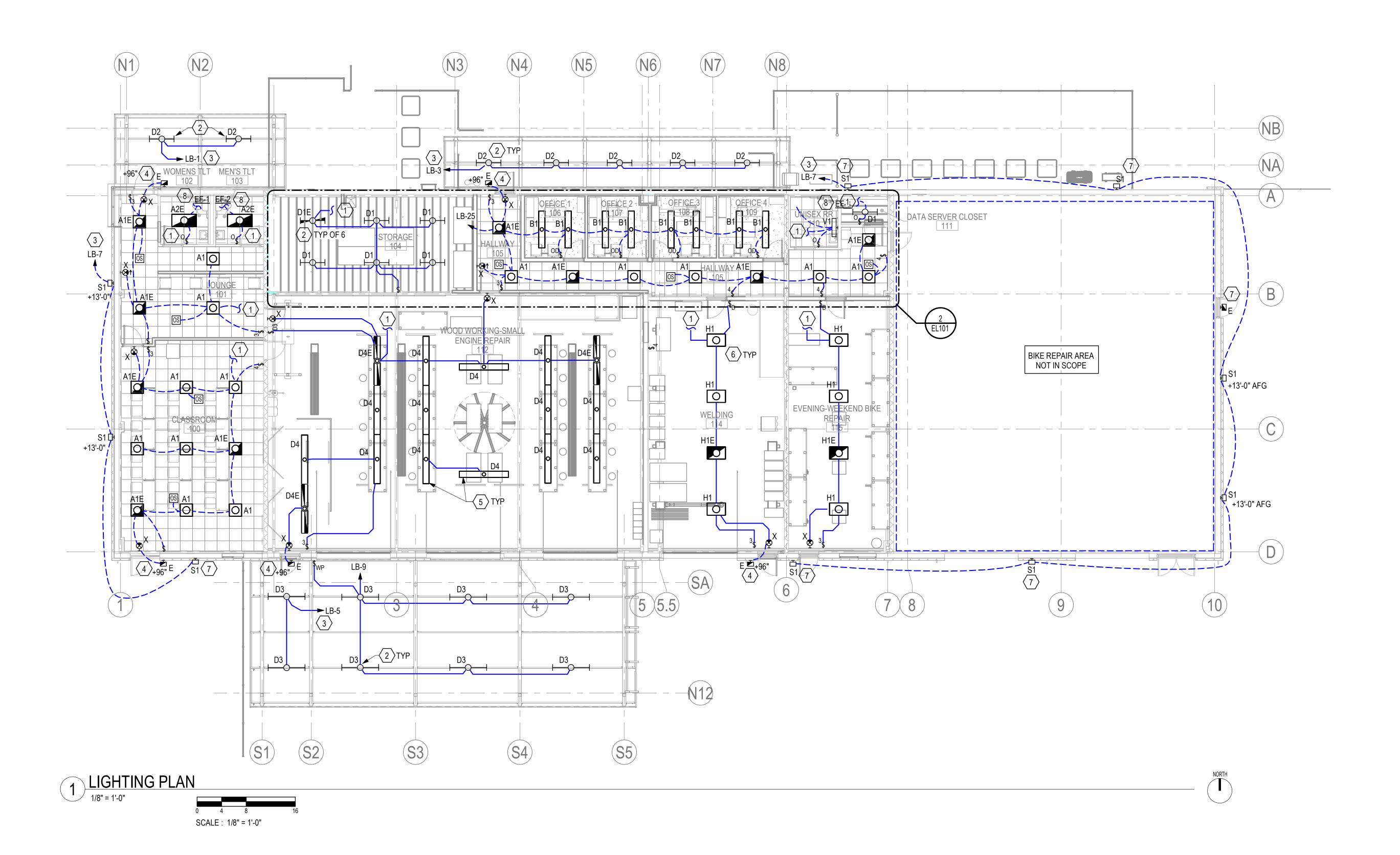
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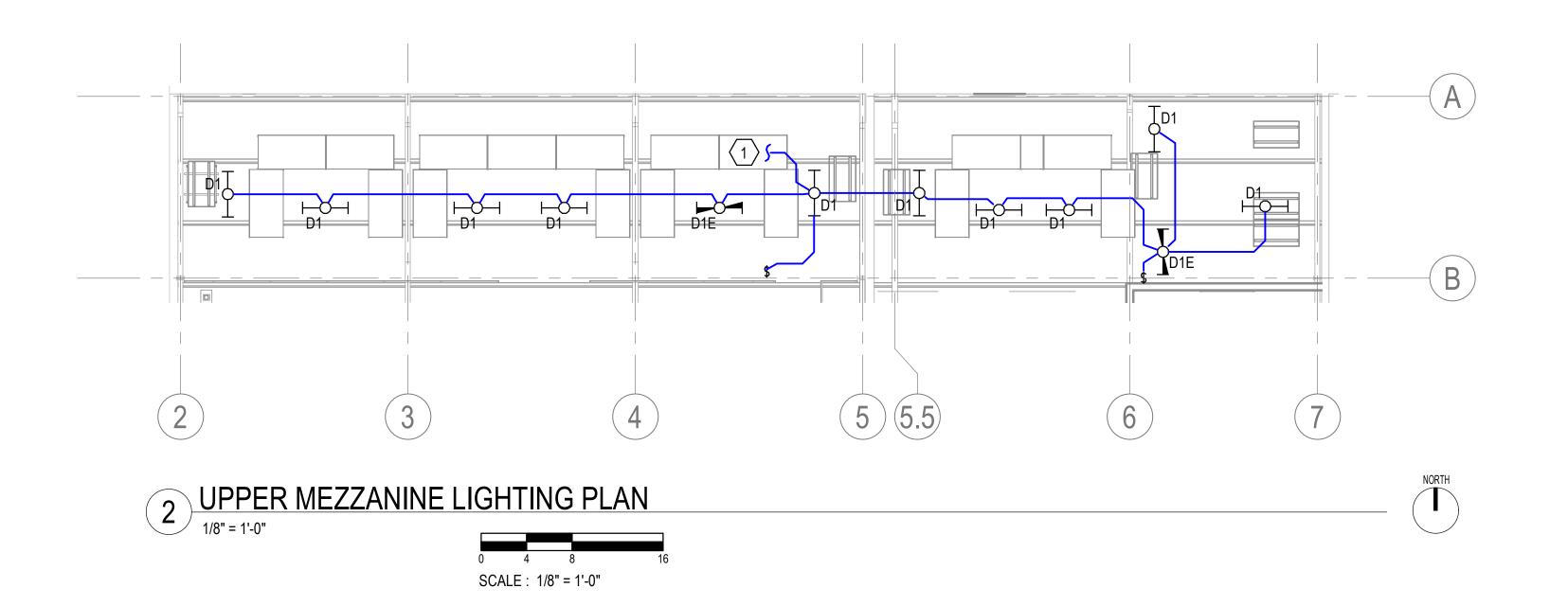
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> **ELECTRICAL DEMOLITION** PLAN

Sheet Number —





GENERAL NOTES:

A. REUSE EXISTING LIGHTING CIRCUITS. VERIFY ADEQUATE AMPACITY.

B. ADJUST THE QUANTITY AND LOCATIONS OF OCCUPANCY SENSORS AS NECESSARY FOR FULL ROOM COVERAGE (MAXIMUM OF 500 SQ. FT COVERAGE PER SENSOR). THE DISTANCE BETWEEN SENSORS AND HVAC REGISTERS SHALL BE NO LESS THAN THE MINIMUM DISTANCE RECOMMENDED BY THE SENSOR MANUFACTURER.

C. OCCUPANCY SENSORS SHALL CONTROL ALL NORMAL POWER LIGHT FIXTURES IN THE ROOM IN WHICH THEY ARE INSTALLED UNLESS OTHERWISE INDICATED.

D. LOCATE ALL POWER PACKS FOR OCCUPANCY SENSORS ABOVE THE CEILING WHERE ACCESSIBLE.

E. SET OCCUPANCY SENSORS TO A 15-MINUTE TIME

F. SET ALL WALL-MOUNTED OCCUPANCY SENSORS TO MANUAL-ON/AUTOMATIC-OFF.

G. DO NOT COVER RECESSED LIGHTING FIXTURE WITH BATT INSULATION.

H. UPDATE PANEL SCHEDULES FOR ANY CIRCUITS THAT ARE BEING AFFECTED IN ALL EXISTING PANELS. PROVIDE TYPED PANEL SCHEDULES IN EACH PANEL AT COMPLETION OF WORK. TURN SPARE BREAKERS OFF.

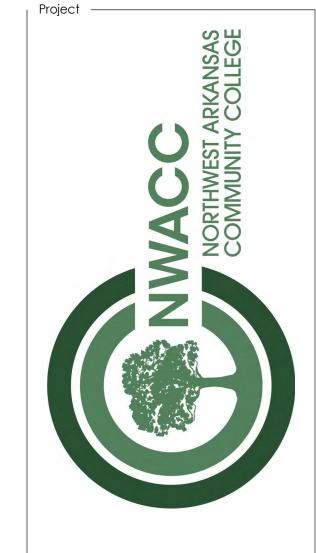
J. LIGHTING CIRCUITRY ONLY SHOWN FOR CONTROL AREA PURPOSES.

K. ALL EXTERIOR LIGHTING SHALL BE CONTROLLED VIA PHOTO SENSOR FOR DUSK TO DAWN OPERATION UNLESS INDICATED OTHERWISE.

KEYED NOTES:

- CONNECT NEW LIGHTING TO EXISTING LIGHTING CIRCUIT. VERIFY CIRCUIT HAS SPARE CAPACITY.
- 2 MOUNT TO BOTTOM OF STRUCTURE.
- (3) CONTROL LIGHTS THROUGH LIGHTING CONTROL PANEL.
- CONTROL FIXTURE WITH PHOTO SENSOR FOR DUSK TO DAWN OPERATION.
- 5 INSTALL TYPE D4 FIXTURES AT 11'-0" TO BOTTOM OF FIXTURES. KEEP ALL CONDUIT TIGHT TO STRUCTURE.
- 6 CHAIN HANG FIXTURES AS HIGH AS POSSIBLE TO BOTTOM OF STRUCTURE.
- 7 REPLACE EXISTING FIXTURE WITH NEW IN SAME LOCATION. CIRCUIT AND CONTROL AS BEFORE.
- 8 EXHAUST FAN IS TO BE POWERED AND CONTROLLED WITH LIGHTS.



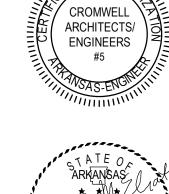


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Design Phase _____

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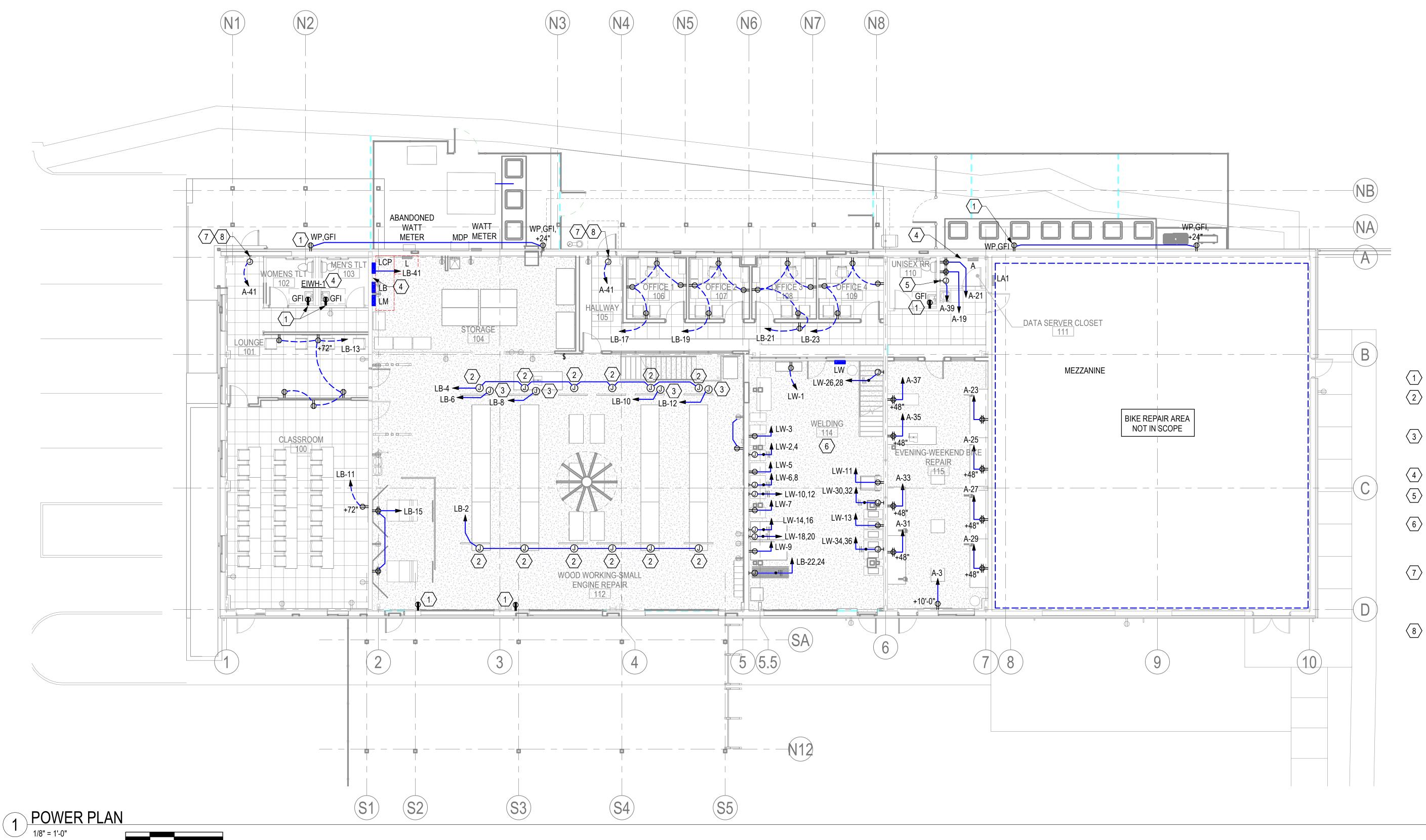
Issue Date

06-30-2023
Sheet Title

LIGHTING PLAN

Sheet Number —

EL101



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

GENERAL NOTES:

A. INFORMATION REGARDING EXISTING CONDITIONS WAS TAKEN FROM CASUAL SITE OBSERVATIONS. INFORMATION MAY BE INCOMPLETE. VERIFY AND DOCUMENT EXISTING

CONDITIONS PRIOR TO DEMOLITION.

B. UPDATE PANEL SCHEDULES FOR A

B. UPDATE PANEL SCHEDULES FOR ANY CIRCUITS THAT ARE BEING AFFECTED IN ALL EXISTING PANELS. PROVIDE AND INSTALL TYPED WRITTEN PANEL SCHEDULE IN EACH PANEL AT COMPLETION OF WORK. TURN SPARE BREAKERS OFF.

C. EXISTING RECEPTACLES AND EQUIPMENT NOT SHOWN ARE TO REMAIN UNLESS NOTED OTHERWISE.

KEYED NOTES:

- 1 REPLACE EXISTING DEVICE WITH NEW. CONNECT TO EXISTING CIRCUIT.
- TV POWER PROVIDE J-BOX AT CEILING AND TRANSITION TO 15' OF 12/3 SJOOW DROP CORD WITH KELLEMS STYLE WIRE MESH STRAIN RELIEF AND NEMA 5-20R CONNECTOR.
- WORK BENCH POWER PROVIDE J-BOX AT CEILING AND TRANSITION TO 25' OF 12/3 SJOOW DROP CORD WITH KELLEMS STYLE WIRE MESH STRAIN RELIEF AND NEMA 5-20R CONNECTOR.
- PROVIDE COMMUNICATION GROUND BUSS SEE DETAIL 2, SHEET E-501.
- BAS CONTROL PANEL COORDINATE FINAL LOCATION WITH MECHANICAL PRIOR TO ROUGH-IN.
- COORDINATE ALL POWER LOCATIONS AND REQUIREMENTS IN WELDING 114 WITH OWNER PRIOR TO ROUGH IN. EQUIPMENT ELECTRICAL LOADS AND LOCATIONS ARE TENTATIVE. VERIFY FINAL EQUIPMENT SELECTIONS, LOCATIONS AND REQUIREMENTS.
- SECURITY ACCESS DOOR HARDWARE PROVIDE POWER AS REQUIRED FROM PANEL A. COORDINATE LOCATION PER MANUFACTURER RECOMMENDATIONS. PROVIDE ALL NECESSARY HARDWARE AND ADDITIONAL ACCESSORIES TO COORDINATE ALL REQUIREMENTS WITH FIRE ALARM AND SECURITY SYSTEM.
- JUNCTION BOX AND CONDUIT. MOUNT J-BOX 7'-6" ABOVE DOOR FOR ACCESS CONTROL CABLING. BOX SHALL BE 6"X6"X4" WITH REMOVABLE COVER, McMASTER-CARR PART #75065K11. ROUTE .75"C TO SERVER ROOM 111. COORDINATE LOCATION AND MOUNTING WITH OWNER.

CROMWELL

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St 6th Street Little Rock, AR 722 cromwell.co

NWACC NORTHWEST ARKANSAS COMIMUNITY COLLEGE

NWACC ITSTI BIKE I
NORTHWEST ARKANSAS COMMUNITY
1201 S.E. EAGLE WAY
BENTONVILLE, ARKANSAS 727

Design Phase —

CONSTRUCTION DOCUMENTS

No. Date Description

CROMWELL ARCHITECTS/ ENGINEERS #5



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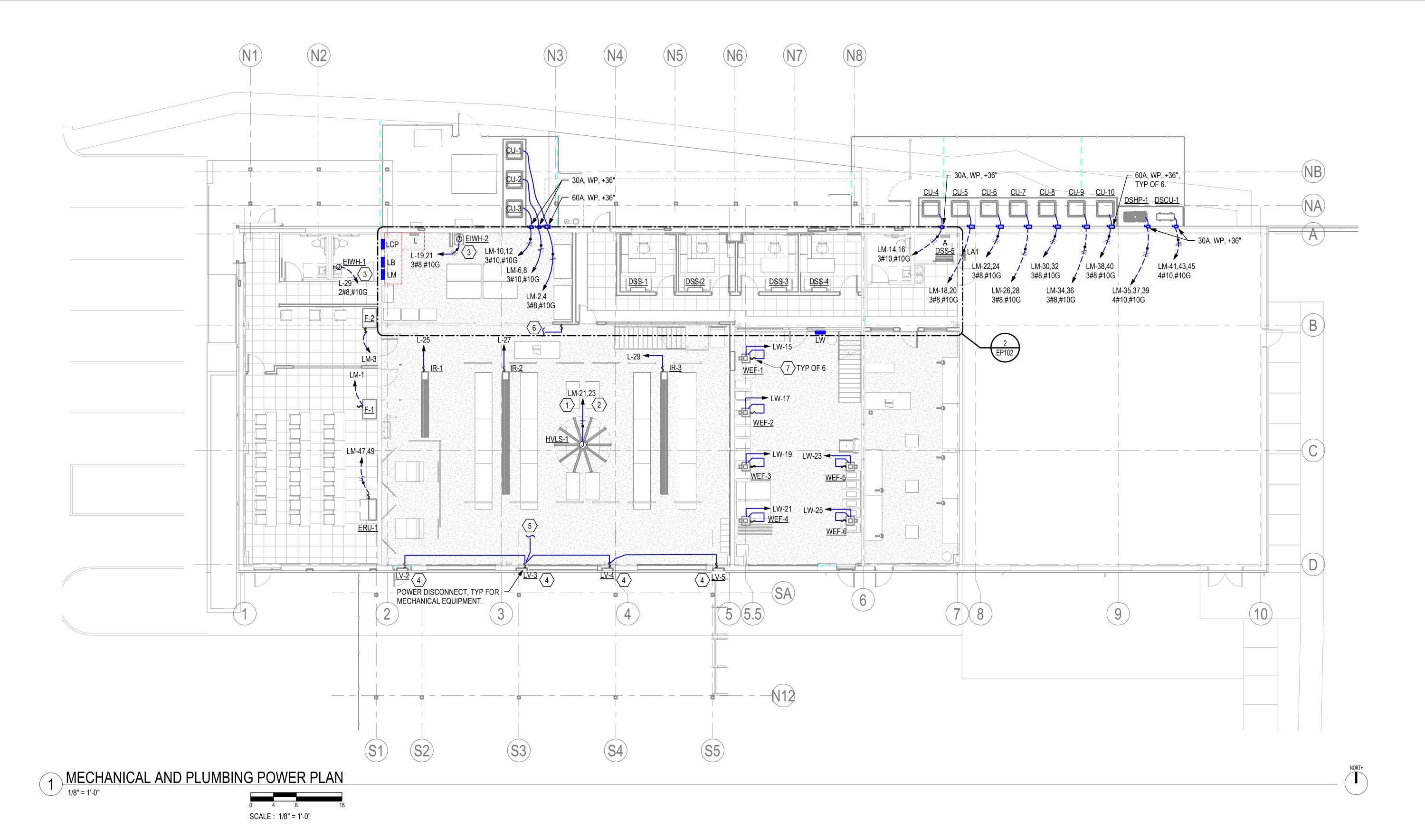
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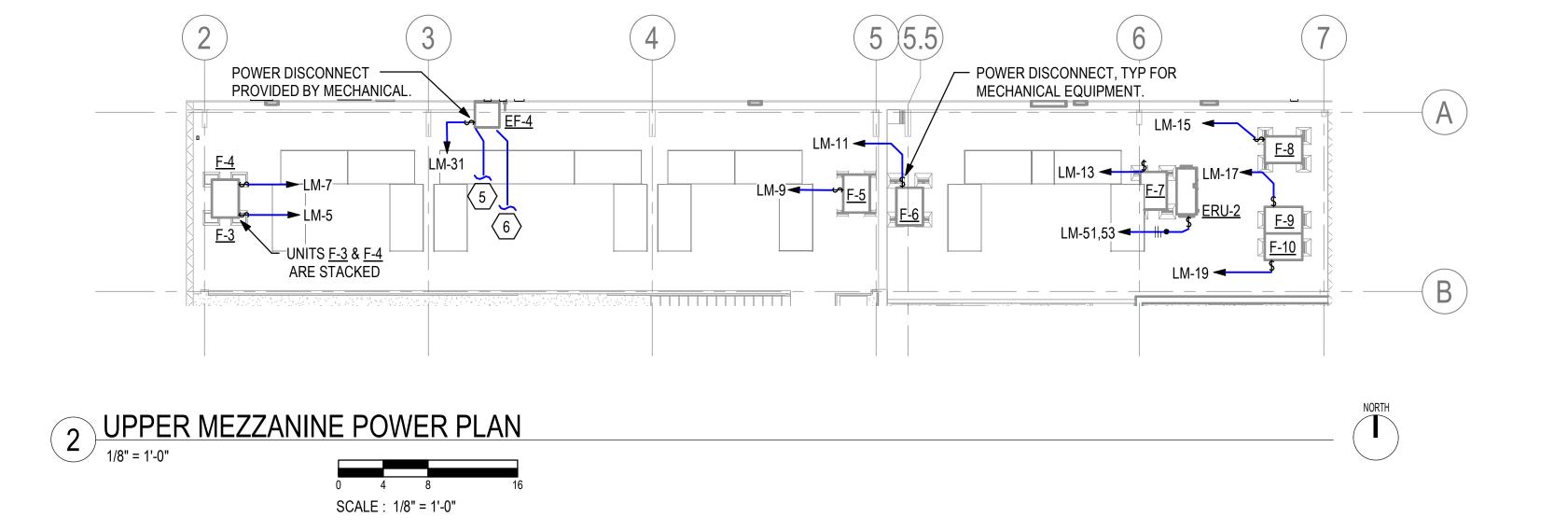
POWER PLAN

Sheet Number ——

Sheet Title ——

EP101





GENERAL NOTES:

A. INFORMATION REGARDING EXISTING CONDITIONS WAS TAKEN FROM CASUAL SITE OBSERVATIONS. INFORMATION MAY BE INCOMPLETE. VERIFY AND DOCUMENT EXISTING

DOCUMENT EXISTING
CONDITIONS PRIOR TO DEMOLITION.

B. UPDATE PANEL SCHEDULES FOR ANY
CIRCUITS THAT ARE BEING AFFECTED
IN ALL EXISTING PANELS. PROVIDE AND
INSTALL TYPED WRITTEN PANEL

SCHEDULE IN EACH PANEL AT

COMPLETION OF WORK. TURN SPARE

C. EXISTING RECEPTACLES AND EQUIPMENT NOT SHOWN ARE TO REMAIN UNLESS NOTED OTHERWISE. KEYED NOTES:

BREAKERS OFF.

KEYED NOTES:

- NEW HVLS FAN CONTRACTOR FURNISHED, CONTRACTOR INSTALLED. SEE MECHANICAL SHEETS FOR MAKE/MODEL INFORMATION.
- 2 COORDINATE LOCATION OF HVLS FAN CONTROLLER WITH OWNER.
- (3) COORDINATE ACTUAL LOCATION WITH PLUMBING PRIOR TO ROUGH IN.
- 4 MOUNT DISCONNECT SWITCH NEXT TO LOUVER UNIT.
- 5 CONNECT LOUVERS 2, 3, 4 & 5 TO SWITCHED CIRCUIT FOR EF-4.
- 6 SWITCH CONTROL FOR EF-4 AND LOUVERS 2, 3, 4 & 5.
- 7 CONTROL STARTER IS PROVIDED WITH UNIT. INSTALL CONTROL STARTER SWITCH AT +48".

CROMWELL

1300 East 6th Street 501.372.2900 Little Rock, AR 72202 cromwell.com



NORTHWEST ARKANSAS COMMUNITY COLLI 1201 S.E. EAGLE WAY

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Project Number 2023-049

Issue Date 06-30-2023

MECHANICAL AND PLUMBING POWER PLAN

Sheet Number ——

Sheet Title ——

P102

KEYED NOTES:

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

- MOUNT CAMERA J-BOX JUST BELOW ROOF EAVE. PROVIDE 15' OF EXTRA CABLE AT THE JUNCTION BOX FOR POSSIBLE RELOCATION.
- PROVIDE J-BOX AT CEILING AND TRANSITION TO 15' OF CAT-6 DROP CABLE WITH STRAIN RELIEF TO HDMI CONNECTORS AT TV'S.

GENERAL NOTES:

A. INFORMATION REGARDING EXISTING CONDITIONS WAS TAKEN FROM CASUAL SITE OBSERVATIONS. INFORMATION MAY BE INCOMPLETE. VERIFY AND DOCUMENT EXISTING CONDITIONS PRIOR TO DEMOLITION.

B. COORDINATE FINAL LOCATION TO TERMINATE ALL DATA, SECURITY AND COMMUNICATION CABLE TO SERVER CLOSET 111.





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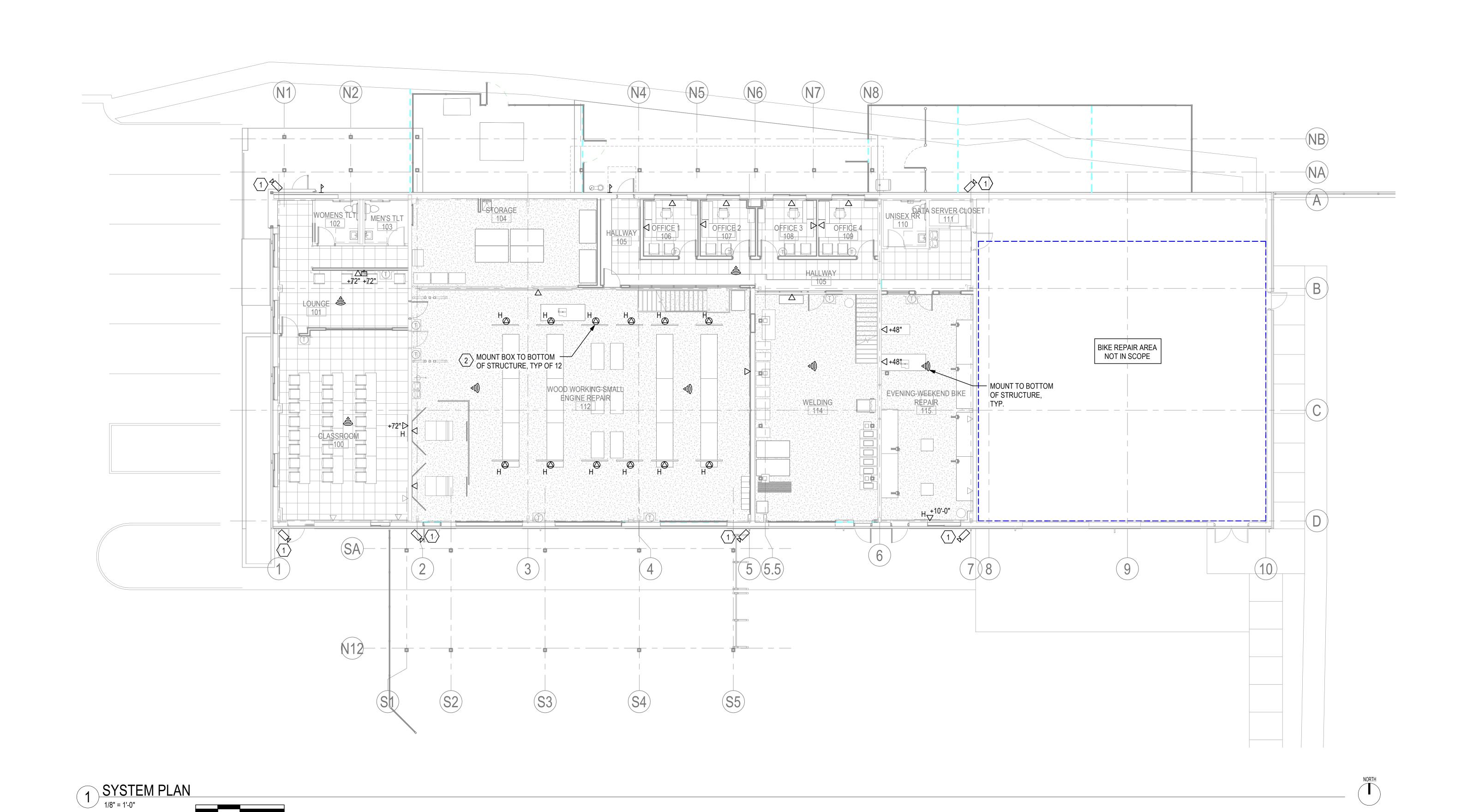
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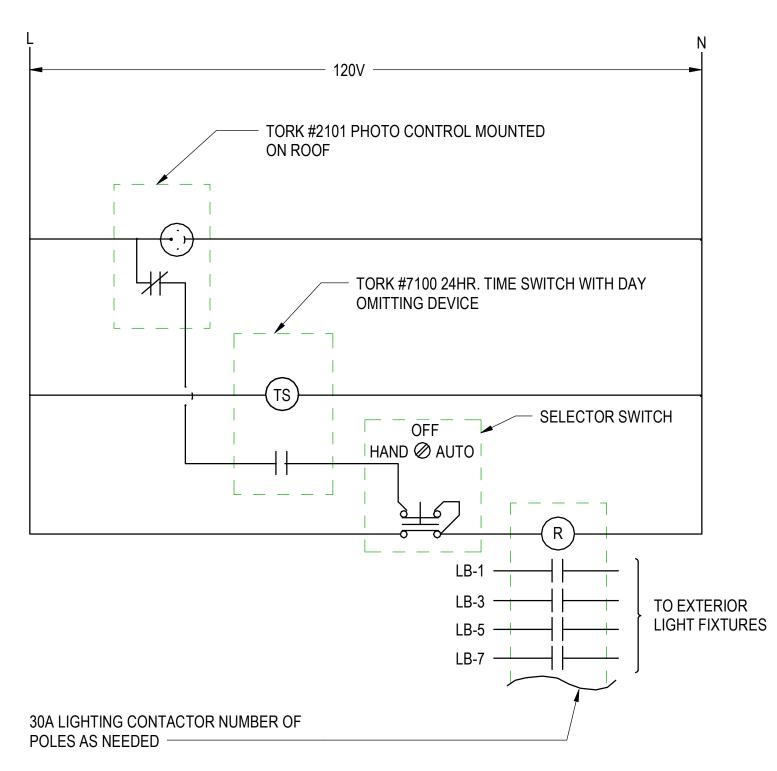
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SYSTEMS PLAN

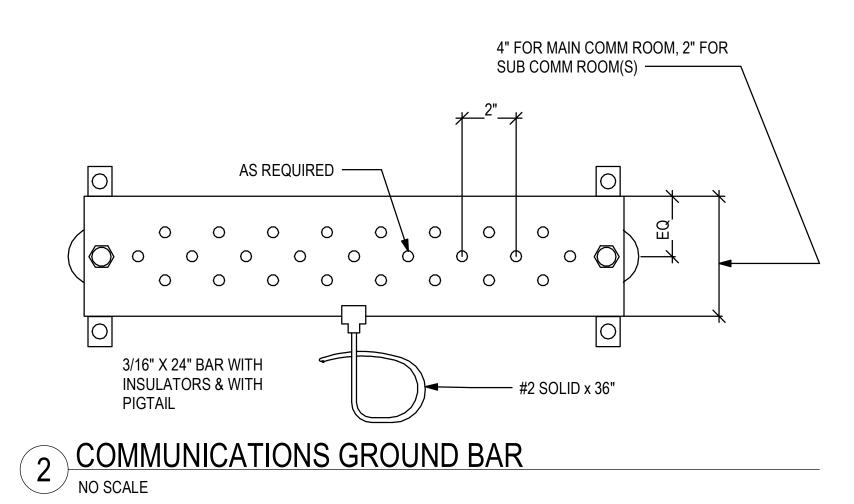
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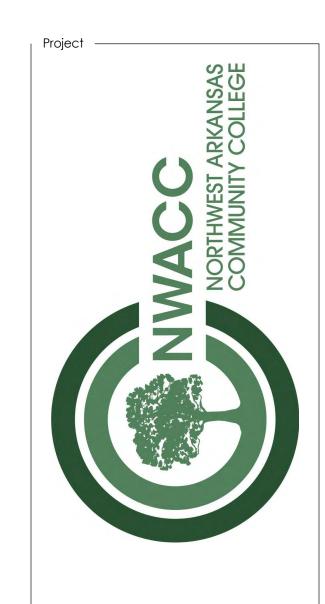




1 LIGHTING CONTROL PANEL - TIME SWITCH SCHEMTAIC DIAGRAM NO SCALE







NORTHWEST ARKANSAS COMMUNITY COLLEGE

Design Phase ———

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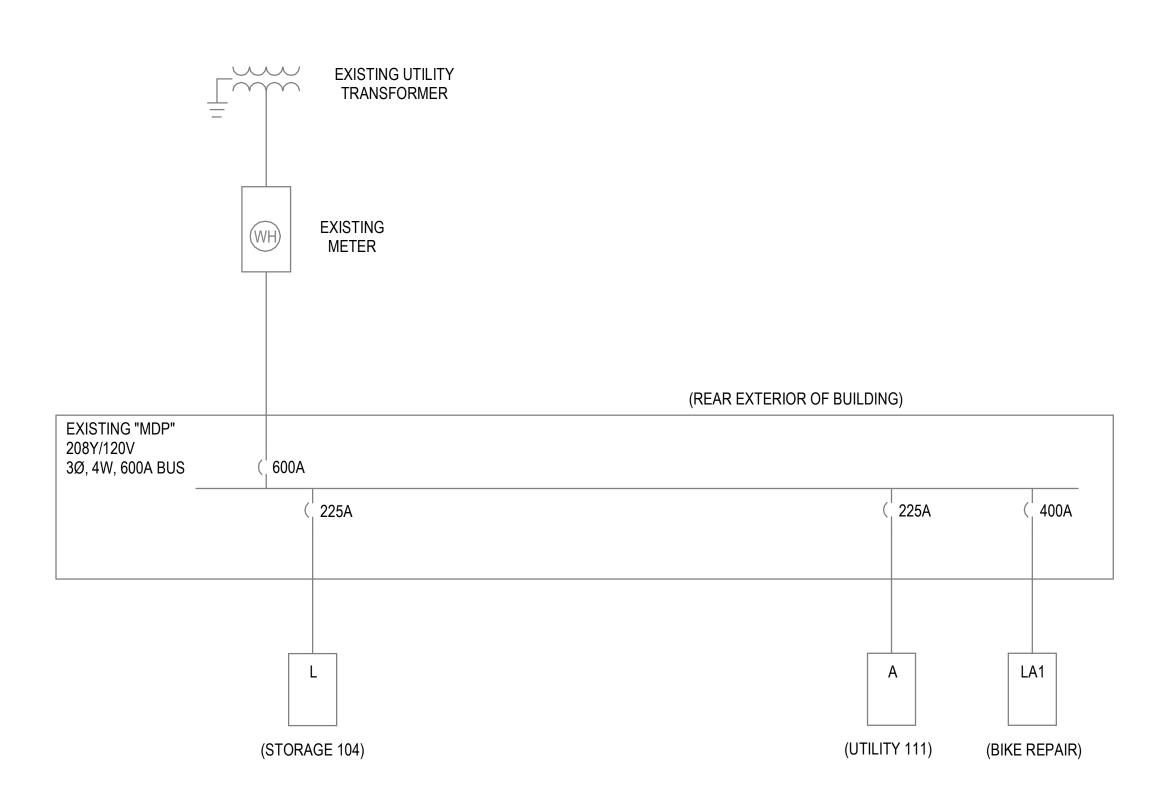
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ELECTRICAL DETAILS

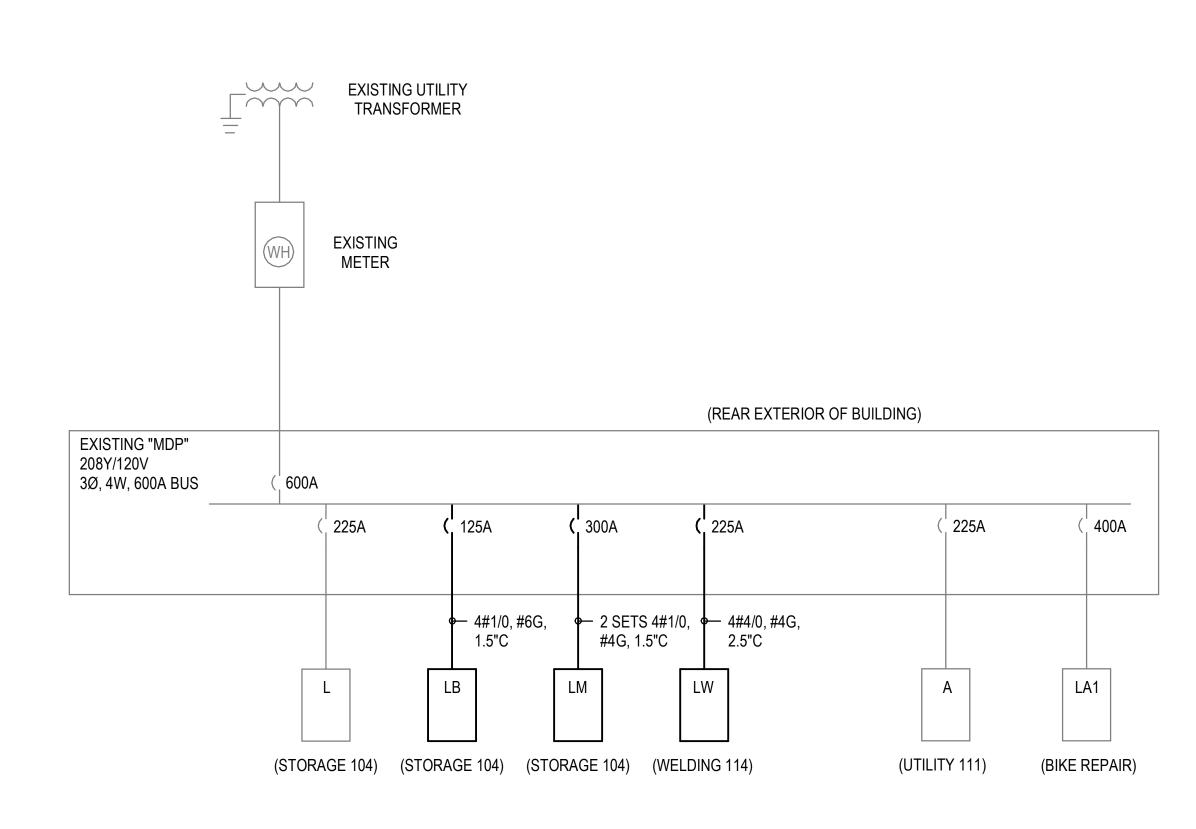
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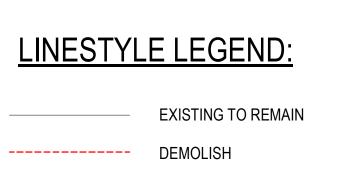
E-501



1 EXISTING SINGLE-LINE DIAGRAM NO SCALE

2 NEW SINGLE-LINE DIAGRAM
NO SCALE









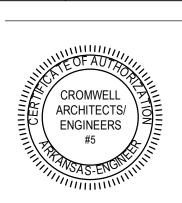
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ELECTRICAL SINGLE-LINE DIAGRAM

Sheet Number —

E-601

	PANEL	L	-	MOUNTING	SURFA	CE	LO	CATION	E	XISTING	MAIN BUS RATING	G 22	25	AMPS	
	MAIN	L	0	POLES			FRAME _		TRIP		_				
VC	LTAGE	120/	240	PHASE	1			MINI	MUM	BREAK	ER INTERRUPTING CAPACITY	/			
	ΑC	CCESS	ORIES	SN + EQP GND										_	
	DEVICE			BRANCH CIRCUIT			PHASE I	_OAD			BRANCH CIRCUIT			DEVIC	
AMPS	POLES	TVDE			VOLT	NO	VOLT A	MPS	NO	VOLT			TVDE	POLES	AMPS
TRIP	PULES	ITPE	LOAD	DESCRIPTION	AMPS	NO	Α	В	NO	AMPS	DESCRIPTION	LOAD	ITPE	POLES	TRIP
20	1			front office computer recep.		1			2		bathroom receps			1	20
20	1			office lights		3			4		emergency lights			1	20
20	1			second office computer rec.		5			6		office lights / bathrooms			1	20
20	1			office receptacles		7			8		west recep/entry office			1	20
20	1			water fountain		9			10		washer			1	20
20	1			bay lights front high bay		11			12		outside lights			1	20
20	1			bay light middle high bay		13			14		northbay lights			1	20
20	1			south wall receptacles		15			16		bay lights back high bays			1	20
20	1			east wall receps/shop		17			18		pole speaker power			1	20
*50	2	G	Н	EIWH-2	4160	19		4160	20		SPARE			2	30
		G	Н	EIWH-2	4160	21	4160		22		SPARE				
20	1			SPARE		23			24		north receptacles shop e. fan			1	20
20	1			rec. w.		25			26					1	20
20	1			SPARE		27			28		SPARE			1	20
*40	1		Н	EIWH-1	3500	29	3500		30		west wall receptacles shop			1	20
60	2			north welder receptacle		31			32		east welder			2	60
				" air compressor "		33			34		" "				
30	2			SPARE		35			36		110 vac recpt drill press			1	20
				SPARE		37			38		rec. w			1	20
50	2			SPARE		39			40		SPARE			2	60
				SPARE		41			42		SPARE				
					TOTAL		7660	4160			KVA (CONNECTED) KVA (DEMAND)			(CONN (DEMA	

	PANEL	L		MOUNTING	SURFA	CE	LC	CATION	EXISTI	NG	_	MAIN BUS RATIN	G1	25	AMPS	
	MAIN	L	0	POLES	8		FRAME	125		TRIP						
VO	LTAGE	208Y	/120	PHASE	3				MIN	IMUM	BREAKE	R INTERRUPTING CAPACIT	Y 10	KA		
	A	CCESS	ORIES	SN + EQP GND		•										
	DEVICE			BRANCH CIRCUIT			PH	IASE LOA	D			BRANCH CIRCUIT			DEVICE	-
AMPS	ם ב	TVDE			VOLT	NO	V	OLT AMPS	3	NO	VOLT			TVDE		AMPS
TRIP	POLES	IYPE	LOAD	DESCRIPTION	AMPS	NO	Α	В	С	NO	AMPS	DESCRIPTION	LOAD	IYPE	POLES	TRIP
20	1		L	EXTERIOR LIGHTS	80	1	1580			2	1500	TV POWER SOUTH	М		1	20
20	1		L	EXTERIOR LIGHTS	200	3		1700		4	1500	TV POWER NORTH	М		1	20
20	1		L	EXTERIOR LIGHTS	80	5			800	6	720	WORKBENCH POWER	М		1	20
20	1		L	EXTERIOR LIGHTS	550	7	1270			8	720	WORKBENCH POWER	М		1	20
20	1		L	FRONT CANOPY LIGHTS	360	9		1080		10	720	WORKBENCH POWER	М		1	20
20	1		R	CLASSROOM 100 TV	180	11			900	12	720	WORKBENCH POWER	М		1	20
20	1		R	LOUNGE 101 REC, TV	900	13	900			14		SPARE			1	20
20	1		R	SIMULATOR RECS	720	15		720		16		SPARE			1	20
20	1		R	OFFICE 106	720	17			720	18		SPARE			1	20
20	1		R	OFFICE 107	720	19	720			20		SPARE			1	20
20	1		R	OFFICE 108	900	21		900		22		SPARE			1	20
20	1		R	OFFICE 109	720	23			720	24		SPARE			1	20
20	1		L	OFFICE LIGHTS	700	25	700			26		SPARE			1	20
20	1			SPARE		27				28		SPARE			1	20
20	1			SPARE		29				30		SPARE			1	20
20	1			SPARE		31				32		SPARE			1	20
20	1			SPARE		33				34		SPARE			1	20
20	1			SPARE		35				36		SPARE			1	20
20	1			SPARE		37				38		SPARE			1	20
20	1			SPARE		39				40		SPARE			1	20
20	1		М	LIGHT CONTROL PANEL	180	41			180	42		SPARE			1	20
	•				TOTAL		5170	4400	3320		13	KVA (CONNECTED)	36	AMPS	(CONNE	ECTED
											13	KVA (DEMAND)	36	AMPS	(DEMAI	ND)

	PANEL		M								MAIN BUS RATIN	IG 4	00	AMPS	
	MAIN		0	POLE	S		FRAME			TRIP					
VC	DLTAGE			-	E3				MINI	IMUM	BREAKER INTERRUPTING CAPACIT	ΓY <u>10</u>)KA	_	
	Α	CCESS	ORIES	SN + EQP GND										-	
	DEVICE			BRANCH CIRCUIT			PH	IASE LOA	D		BRANCH CIRCUIT			DEVICE	<u>-</u>
AMPS	POLES	TVDE			VOLT	NO	V	OLT AMPS	3	NO	VOLT		TVDE	POLES	AMPS
TRIP	FOLLS	IIIFL	LOAD	DESCRIPTION	AMPS	NO	Α	В	С	INO	AMPS DESCRIPTION	LOAD		FOLLS	TRIP
20	1		Н	F1	1656	1	4402			2	2746 CU-1	Н		2	50
20	1		Н	F2	1176	3		3922		4	2746 CU-1	Н			
20	1		Н	F3	1656	5			2988	6	1332 CU-2	Н		2	25
20	1		Н	F4	1656	7	2988			8	1332 CU-2	Н			
20	1		Н	F5	1656	9		3154		10	1498 CU-3	Н		2	30
20	1		Н	F6	1656	11			3154	12	1498 CU-3	Н			
20	1		Н	F7	1656	13	3154			14	1498 CU-4	Н		2	25
20	1		Н	F8	1656	15		3154		16	1498 CU-4	Н			
20	1		Н	F9	1656	17			4402	18	2746 CU-5	Н		2	50
20	1		Н	F10	1656	19	4402			20	2746 CU-5	Н			
15	2		М	HVLS-1 FAN	146	21		2892		22	2746 CU-6	Н		2	50
			М	HVLS-1 FAN	146	23			2892	24	2746 CU-6	Н			
15	1		Н	IRH-1	600	25	3346			26	2746 CU-7	Н		2	50
15	1		Н	IRH-2	600	27		3346		28	2746 CU-7	Н			
15	1		Н	IRH-3	600	29			3346	30	2746 CU-8	Н		2	50
20	1		Н	EF-4, LV-2,3,4,5	1800	31	4546			32	2746 CU-8	Н			
20	1			SPARE		33		2746		34	2746 CU-9	Н		2	50
25	3		Н	DSHP-1	2112	35			4858	36	2746 CU-9	Н			
			Н	DSHP-1	2112	37	4858			38	2746 CU-10	Н		2	50
			Н	DSHP-1	2112	39		4858		40	2746 CU-10	Н			
30	3		Н	DSCU-1	1320	41			1320	42	SPACE				
			Н	DSCU-1	1320	43	1320			44	SPACE				
			Н	DSCU-1	1320	45		1320		46	SPACE				
15	2		Н	ERU-1	408	47			408	48	SPACE				
			Н	ERU-1	408	49	408			50	SPACE				
15	2		Н	ERU-2	841	51		841		52	SPACE				
			Н	ERU-2	841	53			841	54	SPACE				
	1			1	TOTAL		29424	26233	24209		80 KVA (CONNECTED)	222	AMPS	(CONNI	ECTED
											80 KVA (DEMAND)			, (DEMAI	

	PANEL	L\	N	MOUNTING	G SURFA	.CE	LOC	CATION	EXISTIN	NG		MAIN BUS RATIN	IG 2	25	AMPS	
	MAIN	L		POLE			FRAME	_		TRIP	-					
VO	LTAGE	208Y		•	E 3							R INTERRUPTING CAPACIT	ΓY 10	KA		
	_			SN + EQP GND												
	DEVICE		•	BRANCH CIRCUIT			PHA	SE LOA	D			BRANCH CIRCUIT			DEVICE	
AMPS	501 50	T (DE			VOLT		ł	LT AMPS			VOLT			T) (DE	DOI 50	AMPS
TRIP	POLES	IYPE	LOAD	DESCRIPTION	AMPS	NO	A	В	С	NO	AMPS	DESCRIPTION	LOAD	IYPE	POLES	TRIP
20	1		V	WELDING EQUIPMENT	600	1	1200			2	600	WELDING EQUIPMENT	V		2	20
20	1		V	WELDING EQUIPMENT	600	3		1200		4		WELDING EQUIPMENT	V			
20	1		V	WELDING EQUIPMENT	600	5			1200	6	600	WELDING EQUIPMENT	V		2	20
20	1		V	WELDING EQUIPMENT	600	7	1200			8	600	WELDING EQUIPMENT	V		-	
20	1		V	WELDING EQUIPMENT	600	9		1200		10	600	WELDING EQUIPMENT	V		2	20
20	1		V	WELDING EQUIPMENT	600	11			1200	12	600	WELDING EQUIPMENT	V		-	
20	1		V	WELDING EQUIPMENT	600	13	1200			14	600	WELDING EQUIPMENT	V		2	20
20	1		Н	WEF-1	1656	15		2256		16	600	WELDING EQUIPMENT	V		-	
20	1		Н	WEF-2	1656	17			2256	18	600	WELDING EQUIPMENT	V		2	20
20	1		Н	WEF-3	1656	19	2256			20	600	WELDING EQUIPMENT	V		-	
20	1		I	WEF-4	1656	21		2256		22	600	WELDING EQUIPMENT	V		2	20
20	1		Н	WEF-5	1656	23			2256	24	600	WELDING EQUIPMENT	V		I	
20	1		Н	WEF-6	1656	25	2256			26	600	WELDING EQUIPMENT	V		2	20
				SPACE		27		600		28	600	WELDING EQUIPMENT	V		-	
				SPACE		29			600	30		WELDING EQUIPMENT	V		2	20
				SPACE		31	600			32		WELDING EQUIPMENT	V			
				SPACE		33		600		34		WELDING EQUIPMENT	V		2	20
				SPACE		35			600	36	600	WELDING EQUIPMENT	V			
				SPACE		37				38		SPACE				
				SPACE		39				40		SPACE				
				SPACE		41				42		SPACE				
					TOTAL		8712	8112	8112			KVA (CONNECTED) KVA (DEMAND)			(CONNI (DEMAI	ECTED)

ŀ	PANEL	P		MOUNTING	-	CE	-	CATION		XISTING	MAIN BUS RATING	22	25	AMPS	
	MAIN		0	POLES			FRAME		TRIP		_				
VOI	LTAGE	120/	240	PHASE	11			MIN	IMUM	1 BREAKI	ER INTERRUPTING CAPACITY	10	KA	_	
	Α	CCESS	ORIES	SN + EQP GND										_	
	EVICE			BRANCH CIRCUIT			PHASE	LOAD			BRANCH CIRCUIT			DEVICE	
AMPS ,	POLES	TVDE			VOLT	NO	VOLT A	AMPS	NO	VOLT			TVDE	POLES	AMPS
TRIP	PULES	IYPE	LOAD	DESCRIPTION	AMPS	NO	Α	В	NO	AMPS	DESCRIPTION	LOAD	ITPE	POLES	TRIP
20	1			bath		1			2		gfci east			1	20
20	1		R	WALL TV 115	180	3		180	4		gfi south			1	20
20	1			bay strs		5			6		off back			1	20
20	1			bay east		7			8		off front			1	20
20	1			off west		9			10		bay xfan			1	20
20	1			bay west		11			12		Its bay			1	20
20	1			gfci nth		13			14		Its office			1	20
20	1			spare ckt		15			16		Its stor			1	20
20	1			Its mez / sec		17			18		SPARE			2	50
*20	1			SERVER RACK		19			20		SPARE				
*20	1			SERVER RACK		21			22		shop chargers			1	20
*20	1		R	WORKBENCH 115	360	23		360	24		shop chargers			1	20
*20	1		R	WORKBENCH 115	360	25	360		26		space				
*20	1		R	WORKBENCH 115	360	27		360	28		space				
*20	1		R	WORKBENCH 115	360	29	360		30		space				
*20	1		R	WORKBENCH 115	360	31		360	32		space				
*20	1		R	WORKBENCH 115	360	33	360		34		space				
*20	1		R	WORKBENCH 115	360	35		360	36		space				
*20	1		R	WORKBENCH 115	360	37	360		38		space				
*20	1		М	BAS CONTROLLER	180	39		180	40		space				
*20	1		М	SECURITY DOORS	180	41	180		42		space				
					TOTAL		1620	1800		3	KVA (CONNECTED)	14	AMPS	(CONNE	ECTE
											KVA (DEMAND)			(DEMAI	

	PANEL	LA	\1	MOUNTING	SURF	ACE	LC	CATION	EXISTI	NG		MAIN BUS RATING	3 4	00	AMPS	
	MAIN	С	:B	-	400		-	400		TRIP	-				-	
VC	LTAGE	208	′/120	PHASE		-	_			IIMUN	I BREAKI	ER INTERRUPTING CAPACIT	Y 10	KA		
	-			SN + EQP GND		-									-	
	DEVICE			BRANCH CIRCUIT			PH	IASE LOAI	<u> </u>			BRANCH CIRCUIT			DEVICE	
AMPS					VOLT		+	OLT AMPS			VOLT					VMDC
TRIP	POLES	IYPE	LOAD	DESCRIPTION	AMPS	NO	Α	В	С	NO	AMPS	DESCRIPTION	LOAD	IYPE	POLES	TRIP
80	3			SPARE		1				2		facp			1	20
				SPARE		3				4		contactor			1	20
				SPARE		5				6		spare			1	20
20	1			compressor		7				8		phone board			1	20
20	1			recep cage		9				10		track lighting			1	20
20	1			spare		11				12		spare			1	20
20	1			recep cage		13				14		recep			1	20
20	1			recep - parts washer		15				16		floorbox - workbench - 4			1	20
20	1			recep - parts washer		17				18		floorbox - spare			1	20
20	1			floorbox-workbench		19				20		floorbox - workbench - 3			1	20
20	1			spare		21				22		floorbox - workbench - 2			1	20
20	1			parts washer		23				24		floorbox - spare			1	20
20	1			outlet compactor		25				26		lights			1	20
20	1			spare		27				28		track lighting			1	20
20	1			recep		29				30		lights - high bays / up lights			1	20
20	1			tv's		31				32		lights - exterior lights			1	20
20	1			instructor		33				34		spare			1	20
30	3			compactor		35				36		temp panel			2	50
				compactor		37				38		outside ground				
-				compactor		39				40		space				
				space		41				42		space				
					TOTAL		0	0	0			KVA (CONNECTED) KVA (DEMAND)			(CONNE (DEMAN	ECTED) ND)



PANEL SCHEDULE LEGEND

MAIN CB = CIRCUIT BREAKER

LO = LUGS ONLY

BRANCH CIRCUIT BREAKER TYPE A = ARC FAULT CIRCUIT INTERRUPTER

R = RED MARKING ON BREAKER

M = MISCELLANEOUS V = VARIOUS

EQP GND = EQUIPMENT GROUND BUS IG = INSULATED GROUND BUS SPD = SURGE PROTECTIVE DEVICE

* = INDICATES TO ADD NEW BREAKER TO EXISTING PANEL

UPPERCASE INDICATE NEW LOADS.

G = GROUND FAULT CIRCUIT INTERRUPTER S = SHUNT TRIP V = VARIABLE (ADJUSTABLE TRIP) E = EQUIPMENT GROUND FAULT PROTECTION L = LOCKOUT DEVICE O = LOCK ON DEVICE OR BREAKER

<u>LOAD TYPE</u> L = LIGHTING R = RECEPTACLE H = HVAC

MISCELLANEOUS SN = SOLID NEUTRAL

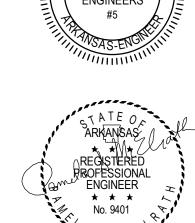
NOTE - LOWERCASE DESCRIPTIONS INDICATE EXISTING LOADS.



() BIKE ITSTI NWACC

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No.	Date	Description
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Project Number -2023-049 Issue Date —— 06-30-2023

ELECTRICAL SCHEDULES

Sheet Number ——

Sheet Title ——

TYPE	DESCRIPTION 2'X2' LED TROFFER 2'X2' LED TROFFER WITH EMERGENCY BATTERY BACKUP 2'X4' TROFFER WITH EMERGENCY BATTERY BACKUP 4" X 4' RECESSED LINEAR FOR	KEYED NOTES
A1E ORACLE LIGHTING BY ELITE 22-EDGE-LED-4000-DIM10-MVOLT-35K-85 120 LED 3934 41 A2E ORACLE LIGHTING BY ELITE 22-EDGE-LED-4000-DIM10-MVOLT-35K-85 120 LED 3934 41 A2E ORACLE LIGHTING BY ELITE 24-FPL1-LED-5000L-DIM10-MVOLT-35K-85-U2 LED 5310 41.2 B1 ORACLE LIGHTING BY DLS-R-LED-4-HC-FT-S-4-1000L-DIM10-MVOLT-35K-85-WH- 120 LED 4134 38.1 D1 ORACLE LIGHTING BY ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D1E ORACLE LIGHTING BY ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D1E ORACLE LIGHTING BY 85-V2-0-EMG-LED-10W 120 LED 3249 24.5 D2 SELF ELECTRONICS - CROWN-47-35K-110-S-S 120 LED 4200 40 D3 SELF ELECTRONICS - CROWN-47-35K-110-S-S 120 LED 6300 60 D4 GE CURPENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64	2'X2' LED TROFFER WITH EMERGENCY BATTERY BACKUP 2'X4' TROFFER WITH EMERGENCY BATTERY BACKUP 4" X 4' RECESSED LINEAR FOR	
A2E ORACLE LIGHTING BY ELITE 0-EMG-LED-20W 120 LED 3334 41 A2E ORACLE LIGHTING BY 24-FPL1-LED-5000L-DIM10-MVOLT-35K-85-0-EMG-LED-20W 120 LED 5310 41.2 B1 ORACLE LIGHTING BY DIM10-MVOLT-35K-85-WH- 120 LED 4134 38.1 D1 ORACLE LIGHTING BY ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D1E ORACLE LIGHTING BY ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D1E ORACLE LIGHTING BY 85-V2-0-EMG-LED-10W 120 LED 3249 24.5 D2 SELF ELECTRONICS - CROWN-47-35K-110-S-S 120 LED 4200 40 D3 SELF ELECTRONICS - CROWN-47-35K-110-S-S 120 LED 6300 60 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64	BATTERY BACKUP 2'X4' TROFFER WITH EMERGENCY BATTERY BACKUP 4" X 4' RECESSED LINEAR FOR	
B1 ORACLE LIGHTING BY CELITE 35K-85-0-EMG-LED-20W 120 LED 5310 41.2	BATTERY BACKUP 4" X 4' RECESSED LINEAR FOR	
DIM DIM		
D1 ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D1E ORACLE LIGHTING BY ELITE 4-OC1-LED-3000L-DIM10-MVOLT-35K-85-V2 120 LED 3249 24.5 D2 SELF ELECTRONICS - CROWN CROWN-47-35K-110-S-S 120 LED 4200 40 D3 SELF ELECTRONICS - CROWN CROWN-70-35K-110-S-S 120 LED 6300 60 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64	OFFICES	
DIE ELITE 85-V2-0-EMG-LED-10W 120 LED 3249 24.5 D2 SELF ELECTRONICS - CROWN CROWN-47-35K-110-S-S 120 LED 4200 40 D3 SELF ELECTRONICS - CROWN CROWN-70-35K-110-S-S 120 LED 6300 60 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64	4' LINEAR STRIP	
D2 CROWN CROWN-47-35K-110-S-S 120 LED 4200 40 D3 SELF ELECTRONICS - CROWN-70-35K-110-S-S 120 LED 6300 60 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ- 120 LED 6400 64	4' LINEAR STRIP WITH EMERGENCY BATTERY BACKUP	
D3 CROWN CROWN-70-35K-110-S-S 120 LED 6300 60 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ-CM-WHTE 120 LED 6400 64 D4 GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ- 120 LED 6400 64	4' LINEAR STRIP OUTDOOR RATED	
DAE GE CURRENT LALS-4-8-A-0-BW-08-LW-08-T35-VQ- 120 LED 6400 64	6' LINEAR STRIP OUTDOOR RATED	
	8' LINEAR UP/DOWN WITH LOUVER LENS	
	8' LINEAR UP/DOWN WITH LOUVER LENS AND BATTERY BACKUP	
E ORACLE LIGHTING BY COMP-FC-104-LED-1600-MVOLT-40K-BZ-0-EMG-LED-HTR 120 LED 1616 17	SMALL WALL PACK WITH EMERGENCY EGRESS BATTERY BACKUP	
H1 ORACLE LIGHTING BY CB2-CPA-LED-12000-DIM10-MVOLT- 120 LED 12,256 87.2	HIGH BAY FIXTURE	
H1E ORACLE LIGHTING BY CB2-CPA-LED-12000-DIM10-MVOLT- 120 LED 12,256 87.2	HIGH BAY FIXTURE WITH EMERGENCY BATTERY BACKUP	
S1 ORACLE LIGHTING BY ELITE OWP-FC-216-LED-8000L-DIM10-120-347V- 120 LED 7972 61	WALL PACK	
X MAXILUME BY ELITE ELX-603-R-W 120 LED N/A 2	EXIT SIGN	

LIGHTING FIXTURE SCHEDULE GENERAL NOTES:

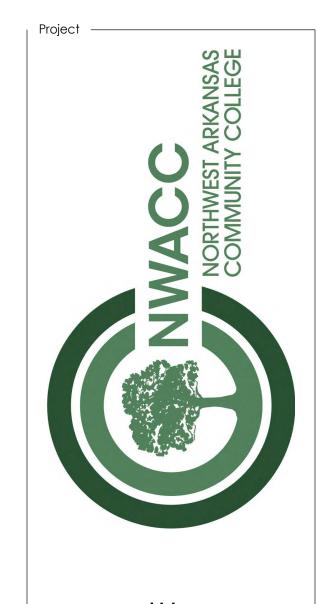
1. PROVIDE FLANGE KIT AS REQUIRED

LIGHTING FIXTURE SCHEDULE KEYED NOTES:

1. BATTERY BACK UP. ARROWS AND FACES PER PLANS

2. CHAIN MOUNT AT 9'-0" AFF UNLESS NOTED OTHERWISE

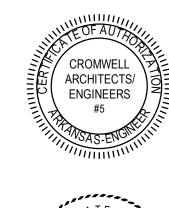


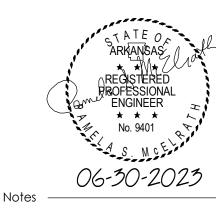


ITSTI BIKE NWACC

CONSTRUCTION DOCUMENTS

110.	Daic	Description





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ELECTRICAL SCHEDULES

Sheet Number ———