

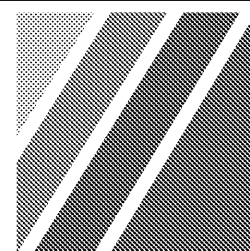
FIRE STATION

PROJECT NO : AEDC # 790-08861-14

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

JULY 7, 2016

BID SET



WILLIAMS & DEAN

ARCHITECTURE | INTERIOR DESIGN

18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, ARKANSAS 72205
501.224.1900
WWW.WILLIAMSDEAN.COM

SURVEYOR

WHITLOW ENGINEERING SERVICES, INC.
301 EAST LINCOLN AVENUE #2
SEARCY, ARKANSAS 72143
501.279.9200

STRUCTURAL

ENGINEERING CONSULTANTS, INC.
401 WEST CAPITAL STREET, SUITE 305
LITTLE ROCK, AR 72201
501.376.3752

MPE

LUCUS, MARRIOT & ASSOCIATES
2225 WEST 7TH STREET
LITTLE ROCK, AR 72201
501.374.3522

STRUCTURAL

S1.0 GENERAL NOTES & SCHEDULES
S1.1 FOUNDATION PLAN & DETAILS

MECHANICAL

M.1.1 HVAC PLAN & DETAILS

PLUMBING

P.1.1 PLUMBING PLAN & DETAILS

ELECTRICAL

E1.1 LIGHTING PLAN
E2.1 POWER AND SYSTEMS PLAN



CERTIFICATION STATEMENT

I HEREBY CERTIFY THAT THESE PLANS HAVE BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, THESE PLANS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS.

John Johnson, AIA Date
Williams & Dean Associated Architects

BUILDING CODE ANALYSIS

GENERAL PROJECT DESCRIPTION:

NEW ONE STORY 4,200 SF BUILDING WITH METAL PANELS EXTERIOR WITH STEEL DOORS AND PUNCHED WINDOW OPENINGS ON ONE SIDE WITH STANDING SEAM METAL ROOF PANELS ON PRE-ENGINEERED METAL BUILDING ALL ON A CONCRETE SLAB ON GRADE - NON-SPRINKLERED

APPLICABLE CODES:

BUILDING CODE:	2012 INTERNATIONAL BUILDING CODE
FIRE CODE:	2012 INTERNATIONAL FIRE CODE
MECHANICAL CODE:	2010 ARKANSAS STATE MECHANICAL CODE
PLUMBING CODE:	2006 ARKANSAS STATE PLUMBING CODE
ELECTRICAL CODE:	2014 NATIONAL ELECTRICAL CODE
ENERGY CODE:	LITTLE ROCK CODE OF ORDINANCES, CHAPTER 8, REVISED ARKANSAS ENERGY CONSERVATION CODE RULES AND REGULATIONS FOR ENERGY EFFICIENCY STANDARDS, CHAPTER 5 OR ASHRAE 90.1 2011 EDITION (BASED ON 2009 INTERNATIONAL ENERGY CODE)
ACCESSIBILITY:	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY CLASSIFICATION:

GROUP VB

TYPE OF CONSTRUCTION (CHAPTER 6 & TABLE 601)
TYPE B, UNPROTECTED, NOT SPRINKLERED

ALLOWABLE HEIGHTS & AREAS (TABLE 503)

MAXIMUM ALLOWABLE HEIGHT:	40'-0"
PROPOSED HEIGHT:	17'-9"
MAXIMUM NUMBER OF STORIES:	2
PROPOSED STORIES:	1
MAXIMUM AREA:	9,000 SF
PROPOSED NEW BUILDING AREA:	4,200 SF

OCCUPANCY LOAD (TABLE 1004.1.1)

BUSINESS (100 SF / PERSON)	42 OCCUPANTS
4,200 SF:	

MEANS OF EGRESS:

EXITS REQUIRED:	2 (SECTION 1015, TABLE 1015.1)
MAX TRAVEL DISTANCE ALLOWED:	200'-0" (TABLE 1016.1)
MAX DEAD END CORRIDOR ALLOWED:	20'-0" (SECTION 1018.4)

FIRE RESISTANCE RATINGS (TABLE 601)

STRUCTURAL FRAME:	0 HR
BEARING WALLS (INTERIOR / EXTERIOR)	0 HR
NONBEARING WALLS (INTERIOR / EXTERIOR)	0 HR
FLOOR CONSTRUCTION:	0 HR
ROOF CONSTRUCTION:	0 HR

INTERIOR FINISH REQUIREMENTS:

FLAMESPREAD	SMOKE DEVELOPED:
EXIT ACCESS: CLASS B 26-75	0-450
OTHER SPACES: CLASS C76-200	0-450
FLOOR CARPET: CLASS I (804.5.1)	

PROTECTIVE OPENINGS:

ALL OPENINGS IN RATED ASSEMBLIES SHALL CONFORM TO REQUIREMENTS OF TABLE 715.4

GLASS AND GLAZING:

- ALL GLASS AND GLAZING SHALL CONFORM TO REQUIREMENTS OF IBC CHAPTER 24.
- SAFETY GLAZING SHALL CONFORM TO IBC SECTION 2406 OF THE IBC.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES WITH PLANS AND CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.

2. IN THE EVENT OF CONFLICT BETWEEN THE CONSTRUCTION DOCUMENTS (ARCHITECTURAL, MECHANICAL, ELECTRICAL, ETC.) THE CONTRACTOR SHALL CONTACT THE ARCHITECT FOR CLARIFICATION PRIOR TO PROCEEDING WITH THAT WORK.

3. DO NOT SCALE DRAWINGS: DIMENSIONS GOVERN. WHERE CONFLICTS OCCUR BETWEEN LARGE AND SMALL SCALE DETAIL DIMENSIONS, NOTIFY ARCHITECT FOR CLARIFICATION.

4. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, INSPECTION FEES TESTING FEES, AND DEPOSITS REQUIRED BY GOVERNING BODIES HAVING LEGAL JURISDICTION FOR THE INSTALLATION OF ALL WORK. CONTRACT SUM SHALL INCLUDE ALL FEES, DEPOSITS, METER CHARGES, AND COORDINATION WITH THE VARIOUS UTILITY COMPANIES FOR SERVICE. FINAL HOOKUP AND CONNECTION TO BE BY BUILDING GENERAL CONTRACTOR. IT SHALL BE THE BUILDING GENERAL CONTRACTOR'S RESPONSIBILITY TO CALL FOR LOCAL INSPECTIONS AND OBTAIN APPROVAL FROM LOCAL INSPECTORS.

5. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY FOR THE PERFORMANCE OF THE WORK.

6. IN THE EVENT OF A CONFLICT BETWEEN APPLICABLE CODES AND REGULATIONS AND REFERENCE STANDARDS OF THESE PLANS AND SPECIFICATIONS, THE MORE STRINGENT PROVISIONS SHALL GOVERN.

7. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, TRANSPORTATION AND OTHER FACILITIES AND SERVICES NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK.

8. WORKMANSHIP, MATERIALS AND INSTALLATION SHALL CONFORM TO LATEST EDITIONS OF THE APPLICABLE BUILDING CODES, AS WELL AS APPLICABLE STATE AND LOCAL CODES, TRADE ASSOCIATION STANDARDS, AND MANUFACTURER'S STANDARDS THAT HAVE AUTHORITY OVER THIS PROJECT.

9. CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT FINISHED CONSTRUCTION. THEY DO NOT INDICATE METHOD OF CONSTRUCTION OF BUILDING AND STRUCTURE. CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT STRUCTURE AND PERSONNEL DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING OF LOADS DUE TO CONSTRUCTION EQUIPMENT, EXCAVATION, PROTECTION, SCAFFOLDING, JOB SITE SAFETY, ETC. OBSERVATION VISITS TO THE SITE BY ARCHITECT, OWNER, OR ENGINEER SHALL NOT INCLUDE INSPECTION OF ABOVE ITEMS.

10. PENETRATIONS THRU WALLS OR CEILINGS NOTED TO BE FIRE RATED ARE TO BE SEALED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL OR CEILING. DUCTWORK PENETRATIONS THRU RATED ASSEMBLIES SHALL BE PROVIDED WITH AN APPROPRIATELY RATED FIRE DAMPER.

11. THIS FACILITY HAS BEEN DESIGNED WITH THE INTENT TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT (ADA). GRAPHIC GUIDELINES FOR CLEARANCES AT DOORS AND TOILET ROOMS HAVE BEEN PROVIDED FOR REFERENCE. WHERE DIMENSIONS INDICATED OR PRODUCTS SPECIFIED HEREIN DO NOT COMPLY WITH GUIDELINES NOTIFY THE ARCHITECT IN WRITING PRIOR TO ORDERING THE ITEM IN QUESTION OR CONSTRUCTION OF THE AFFECTED ASSEMBLY.

12. ALL WOOD BLOCKING, FRAMING AND PLYWOOD TO BE FIRE RETARDANT TREATED AND U.L. NON-COMBUSTIBLE RATED. ALL WOOD IN CONTACT WITH MASONRY OR EARTH SHALL BE WOLMANIZED.

13. ESTABLISH AND VERIFY ALL OPENING AND INSERTS FOR ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING, AND ASSOCIATED WORK PRIOR TO CONSTRUCTION.

14. NOTE: ALL DIMENSIONS ARE TO THE FACE OF STUD, UNLESS NOTED OTHERWISE ON DRAWINGS.

15. CONTRACTOR SHALL PROVIDE BACKING BEHIND FINISHED WALL AND CEILING SURFACES FOR SUPPORT AND ATTACHMENT OF CASEWORK, SHELVING, MIRRORS, COUNTERS, TOILET PARTITIONS, DOOR WALL STOPS AND ACCESSORIES, ETC.

16. THE CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE BUILDING AND SITE CLEAN, AND PROVIDE ALL AND ANY SAFETY PROVISIONS TO ENSURE THE PUBLIC SAFETY.

17. MATERIALS, EQUIPMENT, ETC. NOT INDICATED ON DRAWINGS OR SPECIFIED HEREIN BUT REQUIRED FOR SUCCESSFUL AND SUFFICIENT COMPLETION OF THE INSTALLATION SHALL BE HELD TO BE IMPLIED AND SHALL BE FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

18. ALL MATERIALS AND EQUIPMENT FURNISHED BY CONTRACTORS SHALL BE NEW AND FREE FROM DEFECTS. DAMAGED WORK MUST BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.

19. ALL MANUFACTURED MATERIALS, COMPONENTS, FASTENERS, ASSEMBLIES, ETC., SHALL BE HANDLED AND INSTALLED IN CONFORMANCE WITH MANUFACTURERS SPECIFICATIONS AND INSTRUCTIONS. WHERE SPECIFIC PRODUCTS ARE CALLED FOR, GENERIC EQUIVALENTS, WHICH MEET APPLICABLE STANDARDS AND SPECIFICATIONS, MAY BE USED IF APPROVED BY THE ARCHITECT. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ARCHITECTS REVIEW AND APPROVAL, TYPICAL.

20. ALL WORKMANSHIP AND MATERIALS SHALL BE GUARANTEED FOR ONE YEAR AFTER WRITTEN ACCEPTANCE.

21. VERIFY IF THE SPACE ABOVE THE CEILING IS A RETURN AIR PLENUM, THEREFORE NO COMBUSTIBLE MATERIALS ARE ALLOWED (I.E., PVC, NON FIRE TREATED WOOD, NONPLENUM RATED CABLES.) THIS ALSO APPLIES TO THE SPACE BELOW THE FLOOR WHERE PLUMBING AND CONDUITS ARE TO BE INSTALLED.

INDEX OF DRAWINGS

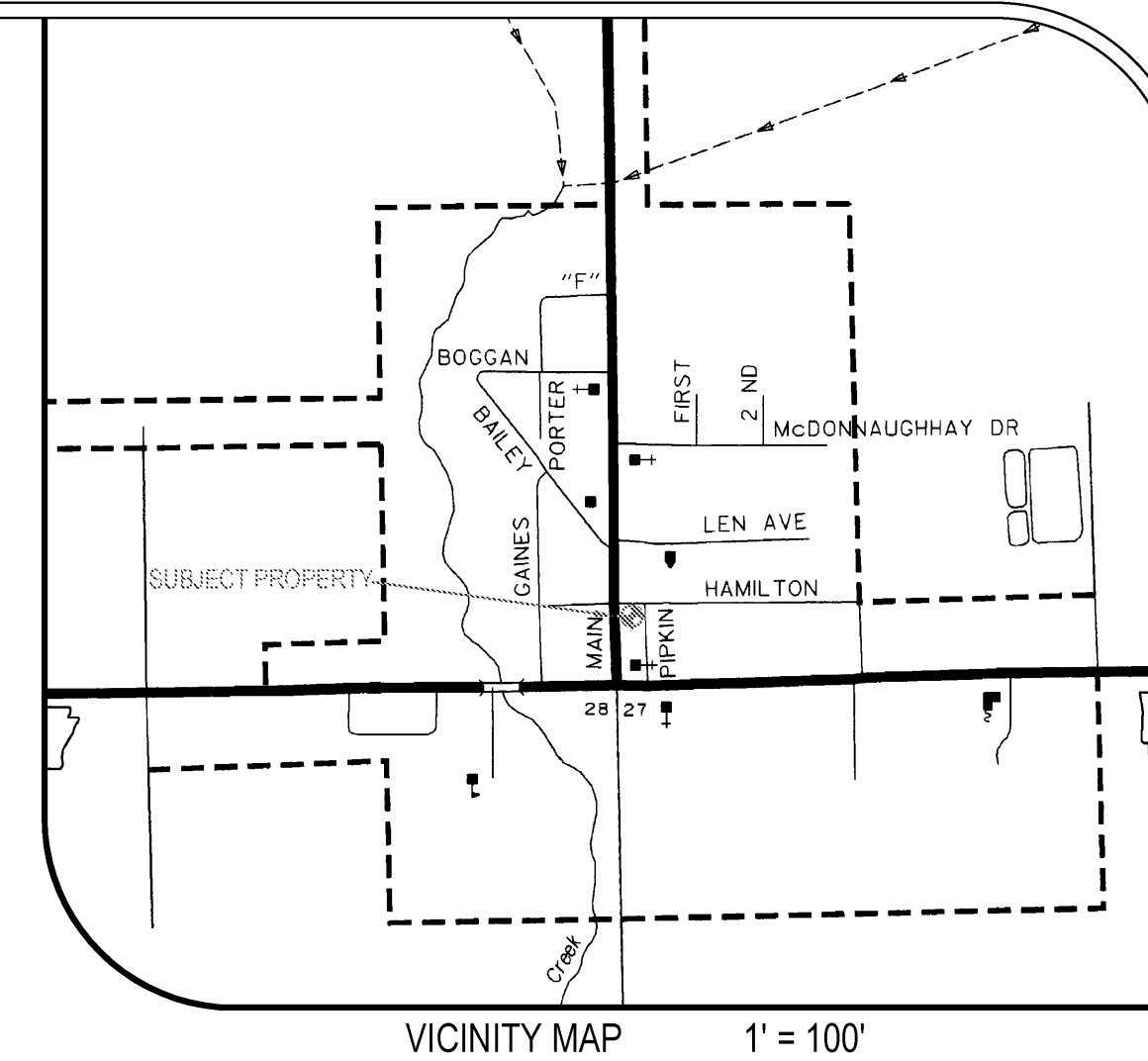
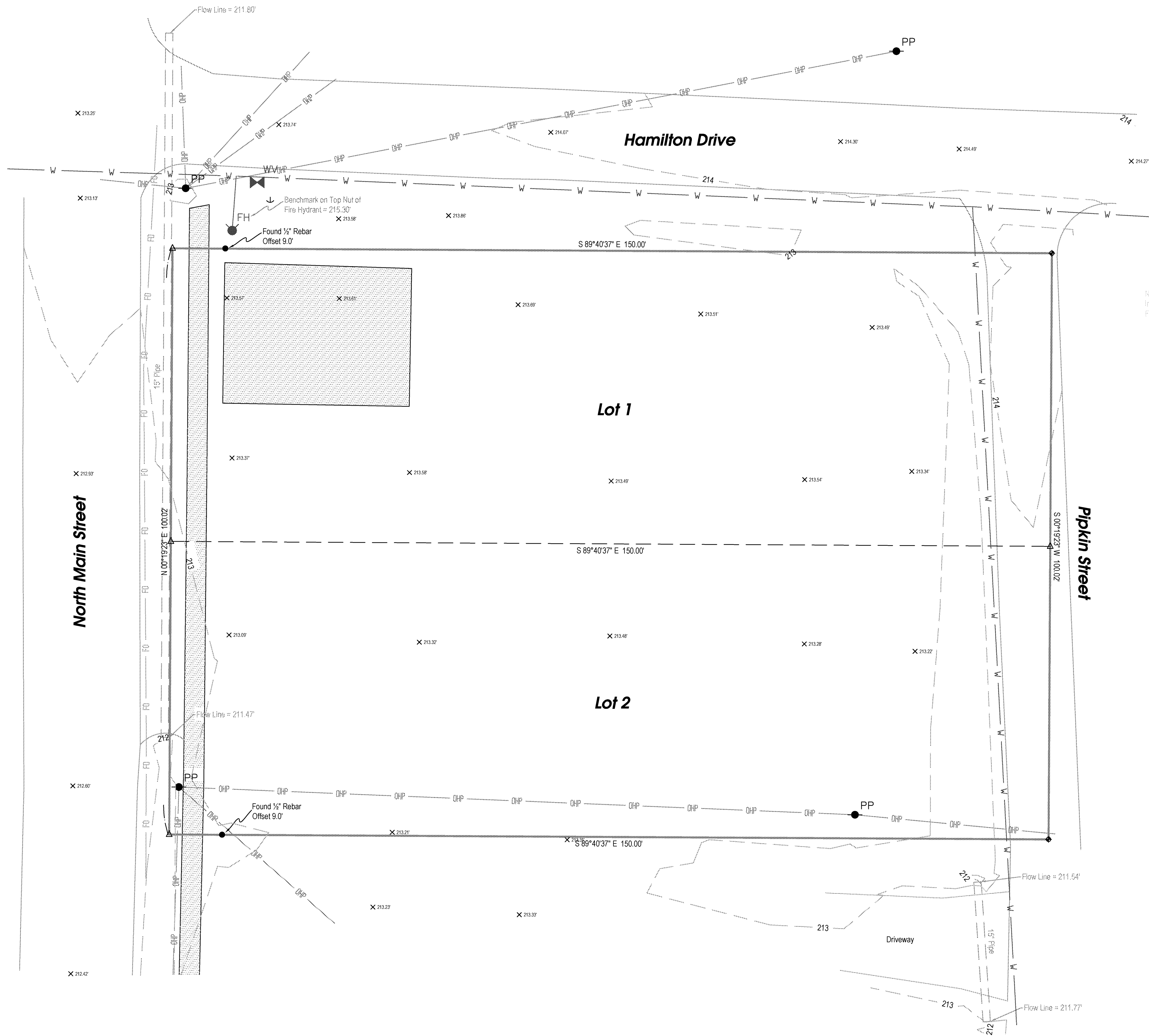
COVER

CIVIL

1 BOUNDARY SURVEY

ARCHITECTURAL

A0.1	SITE GRADING & UTILITY PLAN
A1.1	FLOOR PLAN
A2.1	ROOF PLAN & REFLECTED CEILING PLAN
A3.1	EXTERIOR ELEVATIONS
A4.1	BUILDING SECTIONS
A5.1	WALL SECTIONS
A6.1	ENLARGED BATHROOM PLANS & ELEVATIONS
A7.1	DOOR AND WINDOW SCHEDULE
A7.2	FLOOR FINISH PLAN



LEGAL DESCRIPTION

FURNISHED (Book 2014, Page 14799):

Lots One (1) and Two (2), Block One (1) in Ford's Addition to the Town of Griffithville, Arkansas, subject to the following restriction.

Restrictive Clause: in the event this property is not used for public purposes on behalf of said grantee and same is offered for sale, the town of Griffithville, Arkansas shall have the first right of refusal to re-purchase the said property.

GENERAL NOTES

1. THIS IS AN ORIGINAL SURVEY OF A PARCEL OF LAND OUT OF A LARGER PARCEL DEPICTED AND DESCRIBED IN A SUBDIVISION OF FORD'S ADDITION IN THE TOWN OF GRIFFITHVILLE, WHITE COUNTY, ARKANSAS.
2. EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS PLAT, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT REAL ESTATE: EASEMENTS, BUILDING SETBACK LINES, RESTRICTIVE COVENANTS, SUBDIVISION RESTRICTIONS, ZONING OR OTHER LAND USE REGULATIONS, AND ANY OTHER FACTS WHICH AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
3. NO ATTEMPT HAS BEEN MADE AS PART OF THIS SURVEY TO OBTAIN OR SHOW DATA CONCERNING EXISTENCE, SIZE, DEPTH, CONDITION, CAPACITY, OR LOCATION OF AND UTILITY OR MUNICIPAL/PUBLIC FACILITY, EXCEPT AS SHOWN.
4. BASIS OF BEARING - GPS NORTH.
5. REFERENCE DOCUMENTS - RECORDED PLAT OF FORD'S ADDITION FILED IN WHITE COUNTY COURTHOUSE AND PREVIOUS SURVEYS BY PS #300 AND PS #748.

UTILITY NOTES

UTILITIES SHOWN ARE NOTED BY VISIBLE OBSERVATION ONLY. UNDERGROUND UTILITIES ARE TAKEN FROM UTILITY MAPS. EXACT LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. NO EXCAVATION HAS TAKEN PLACE AS OF THIS DATE TO DETERMINE THE EXACT LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS SURVEY.

FOR UNDERGROUND UTILITY LOCATIONS
CALL THE ARKANSAS ONE-CALL SYSTEM
GIVE 48 HOURS NOTICE BEFORE CONSTRUCTION BEGINS



NOTE:
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS. THE EXISTENCE AND LOCATIONS OF WHICH ARE UNKNOWN. THE CONTRACTOR MUST VERIFY THE EXACT LOCATIONS OF UTILITIES WITH THE UTILITY COMPANIES PRIOR TO CONSTRUCTION.



WHITLOW ENGINEERING SERVICES, INC.
301 EAST LINCOLN AVENUE #2
SEARCY, ARKANSAS 72143
(501) 279-9200 • (501) 279-9205 FAX

LEGEND

These standard symbols will be found in the drawing

MONUMENTATION

- Found Rebar
- ◆ Found Cotton Spindle
- △ Calculated Point

UTILITIES

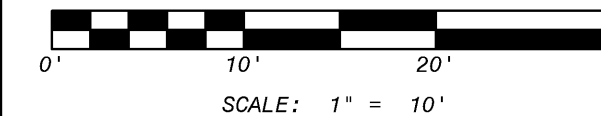
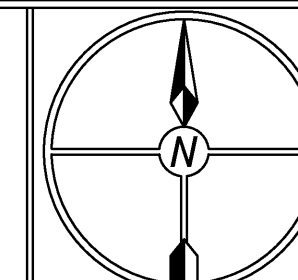
- PP Powerpole
- Guy Wire
- Water Valve
- Fire Hydrant
- Sewer Manhole

SITE IMPROVEMENTS

- Concrete
- Overhead Power Line
- Storm Drainage
- Sanitary Sewer Line
- Water Line
- Fiber Optic Line

BOUNDARY SURVEY

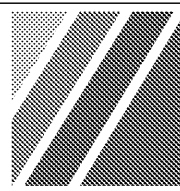
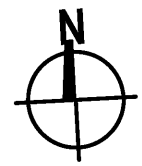
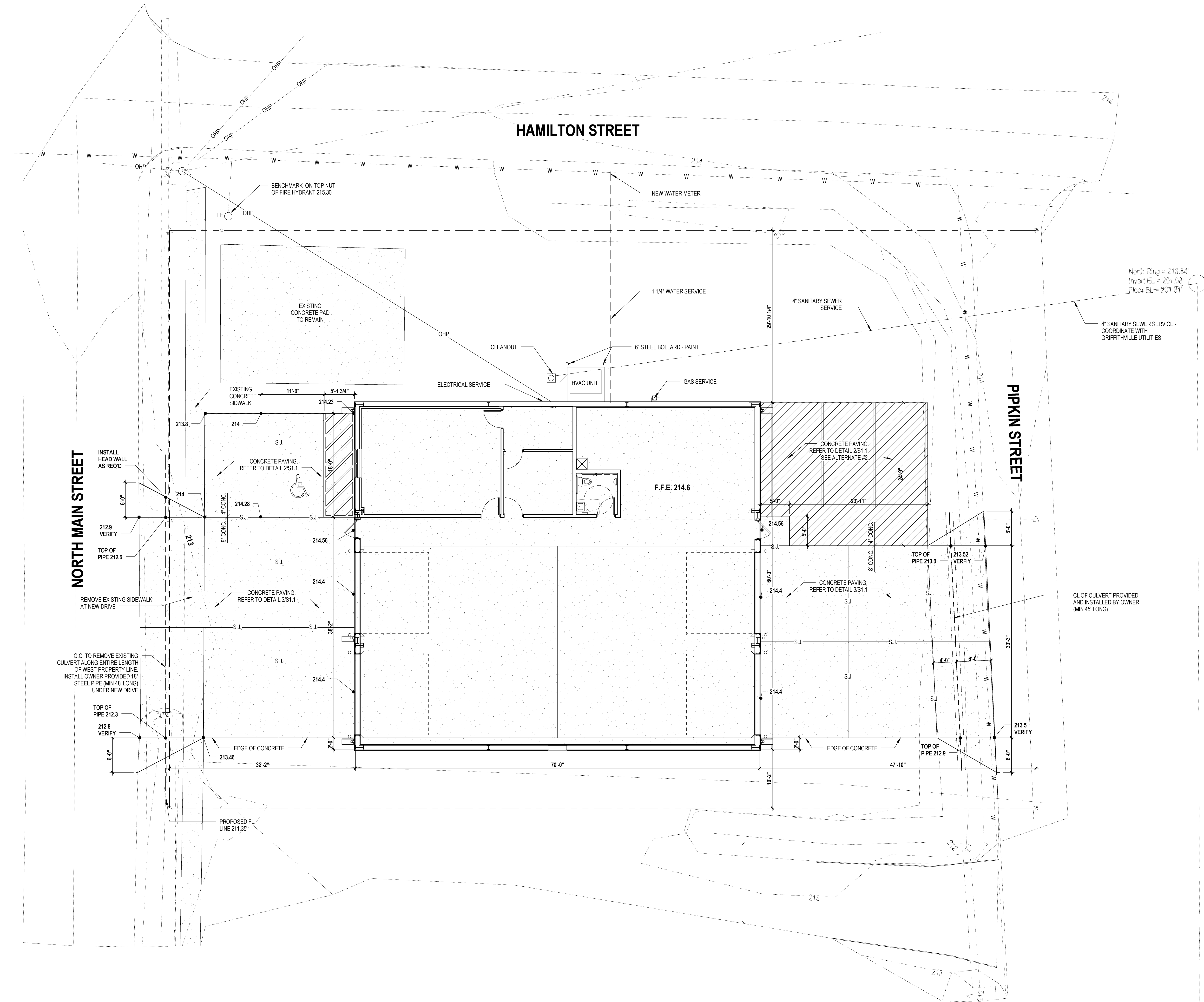
Lots 1 and 2, Block 1 of Ford's Addition to the City of Griffithville, White County, Arkansas



Date:	5/12/16	Project No.	16-041
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Drawn By:	JDC	Sheet:	1 of 1

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1 SITE PLAN
1/8" = 1'-0"



WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN

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FIRE STATION

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

:STAMP



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SITE GRADING & UTILITY
PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

JULY 7, 2016

:ISSUE DATE

14-117

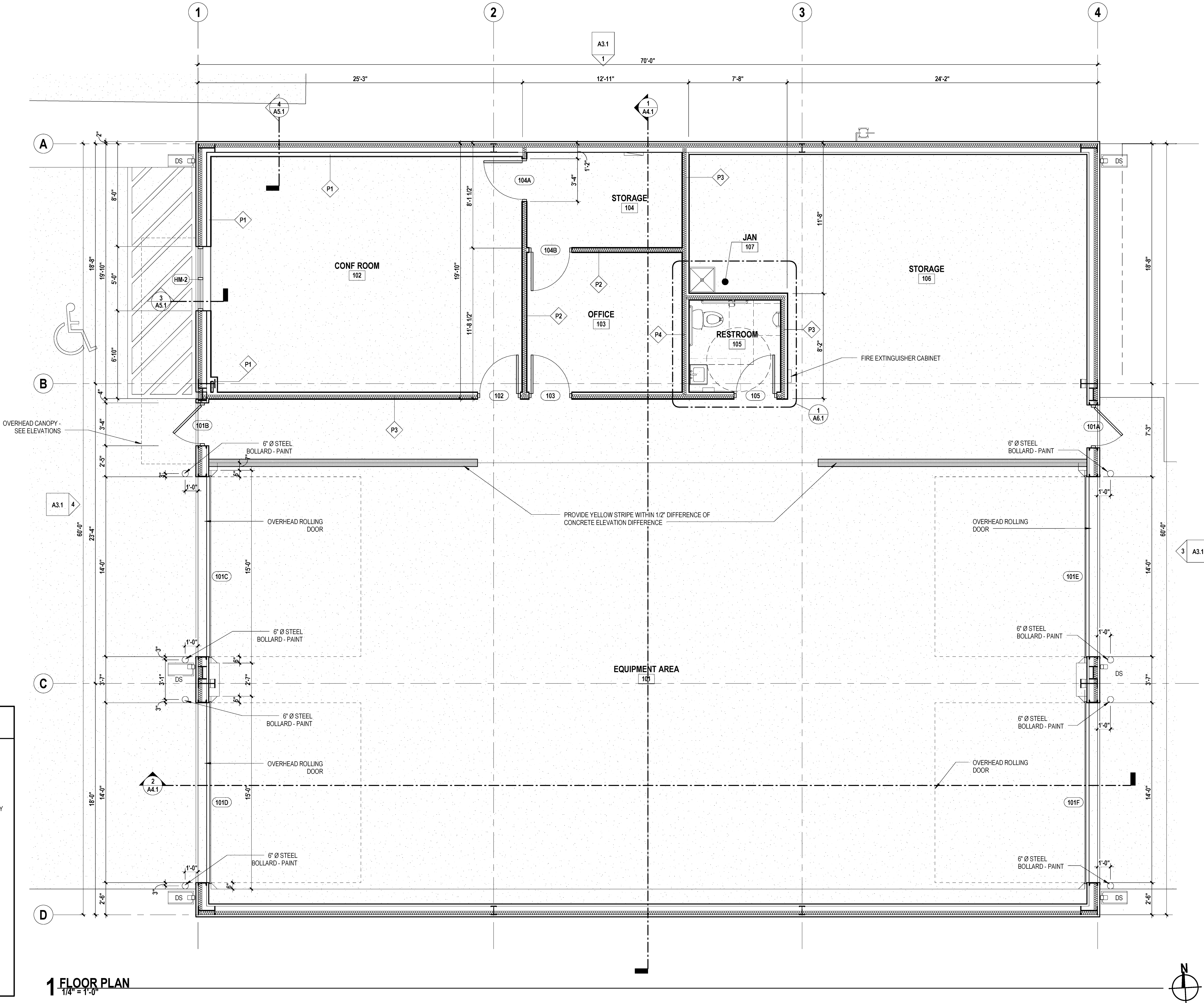
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PARTITION SCHEDULE		
TYPE	SOUND ATTENUATION BLANKET	DESCRIPTION
P1	Yes	(1) LAYER OF 5/8" GYP BD OVER 2X4" WD STUD FRAMING @ 16" O.C. - GYP BD OVER ROOM SIDE OF FRAMING - INSTALL GYP BD AND FRAMING 6" ABOVE FINISHED CEILING
P2	Yes	(2) LAYERS OF 5/8" GYP BD OVER 2X4" WD STUD FRAMING @ 16" O.C. - INSTALL GYP BD AND FRAMING 6" ABOVE FINISHED CEILING
P3	Yes	(2) LAYERS OF 5/8" GYP BD OVER 2X6" WD STUD FRAMING @ 16" O.C. - INSTALL GYP BD AND FRAMING 6" ABOVE FINISHED CEILING - WHERE CEILINGS ARE NOT PRESENT FRAMING AND GYP BD TO CONTINUE TO THE UNDERSIDE OF THE ROOF DECK - SEAL GYP BD TO DECK
P4	Yes	(2) LAYERS OF 5/8" GYP BD OVER 2X6" WD STUD FRAMING @ 16" O.C. - INSTALL GYP BD AND FRAMING 6" ABOVE FINISHED CEILING



SYMBOLS LEGEND			
	DRAWING REFERENCE		DRAWING REFERENCE
	EXTERIOR ELEVATION KEY		BUILDING SECTION KEY
	SHEET NUMBER		SHEET NUMBER
	DRAWING REFERENCE		DRAWING REFERENCE
	INTERIOR ELEVATION KEY		MILLWORK SECTION KEY
	SHEET NUMBER		WALL SECTION KEY
	DRAWING REFERENCE		DETAIL SECTION KEY
	ENLARGED PLAN CALLOUT KEY		REVISION NUMBER
	SHEET NUMBER		ROOM NAME
	DOOR NUMBER		ROOM NUMBER
	COLUMN GRID KEY		SPOT ELEVATION KEY
	WINDOW KEY		LEVEL ELEVATION KEY
	WALL KEY		

FIRE STATION

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

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FLOOR PLAN

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2x4 SURFACE MOUNTED FLOURESCENT

2x4 FLOURESCENT

WALL PACK

EXIT LIGHT W/ EMERGENCY EGRESS

EMERGENCY LIGHTING

EMERGENCY EGRESS LIGHTING

RETURN AIR GRILLE

SUPPLY AIR GRILLE

EXHAUST FAN

2 x 2 ACT SYSTEM
8'-0" A.F.F.

2 x 2 ACT SYSTEM
9'-0" A.F.F.

2 x 2 ACT SYSTEM
8'-0" A.F.F.

2 x 2 ACT SYSTEM
8'-0" A.F.F.

2 x 2 ACT SYSTEM
8'-0" A.F.F.

NOTE:
VERIFY LIGHTS ARE NOT OBSTRUCTED BY
OVERHEAD DOORS, SUPPORTS, AND DOOR
OPENERS

1 2 3 4

A B C D

14'-0" 14'-0" 14'-0"

7'-10" 12'-2" 11'-10"

5'-7" 27'-4" 9'-4"

EQ EQ

WALL PACK - SEE ELEC

WALL PACK - SEE ELEC

1/8" = 1'-0"

1 2 3 4

A B C D

RAKE FLASHING TO GUTTER
TRANSITION - PROFILES TO MATCH

PREFINISHED MTL RAKE FLASHING

RAKE FLASHING TO GUTTER
TRANSITION - PROFILES TO MATCH

PREFINISHED MTL GUTTER

STANDING SEAM MTL ROOF

VENT THROUGH ROOF - SEE MEP

1" / 12"

1" / 12"

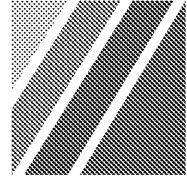
PREFINISHED MTL RIDGE CAP

RAKE FLASHING TO GUTTER
TRANSITION - PROFILES TO MATCH

PREFINISHED MTL RAKE FLASHING

RAKE FLASHING TO GUTTER
TRANSITION - PROFILES TO MATCH

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FIRE STATION

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

JOHN DEAN JOHNSON
REGISTERED ARCHITECT
No. 38551
ARKANSAS
08.01.16

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ROOF PLAN &
REFLECTED CEILING
PLAN

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JULY 7, 2016

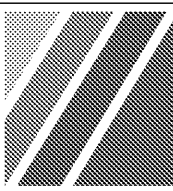
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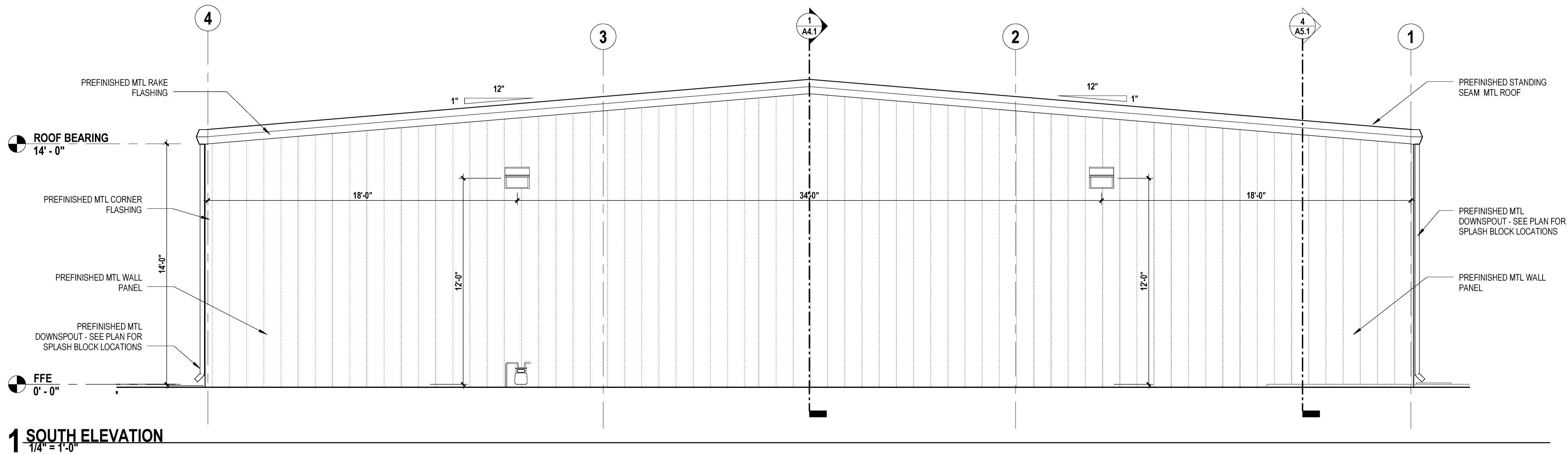
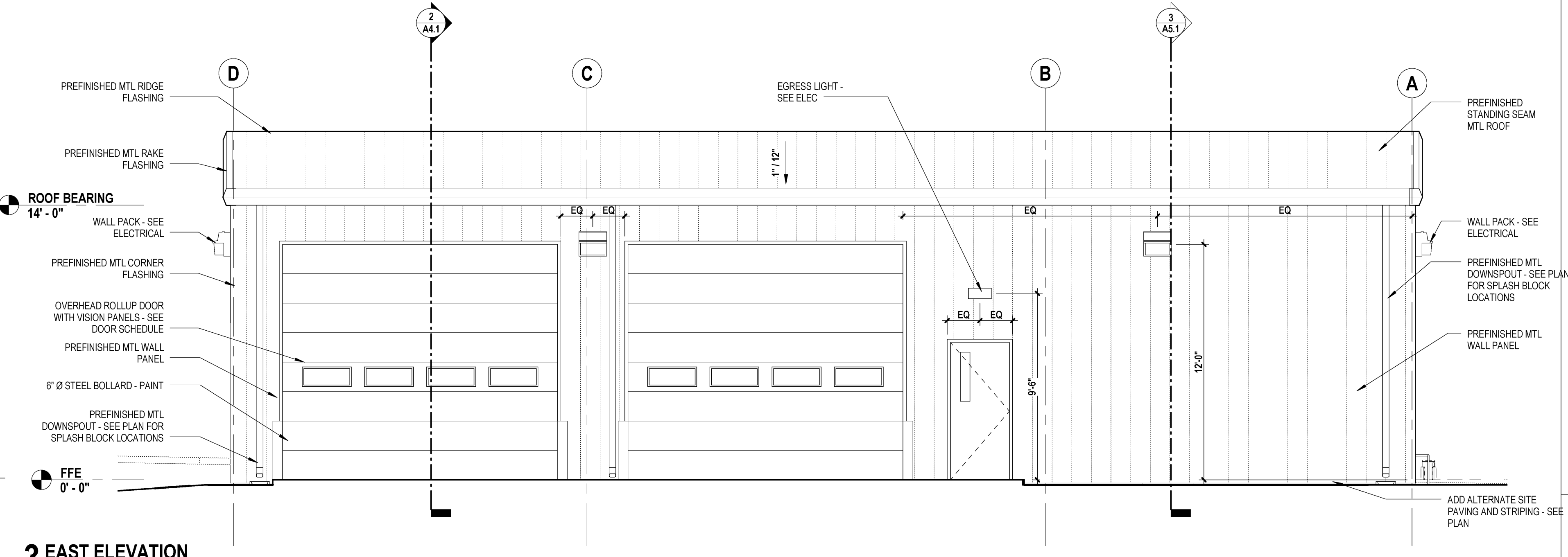
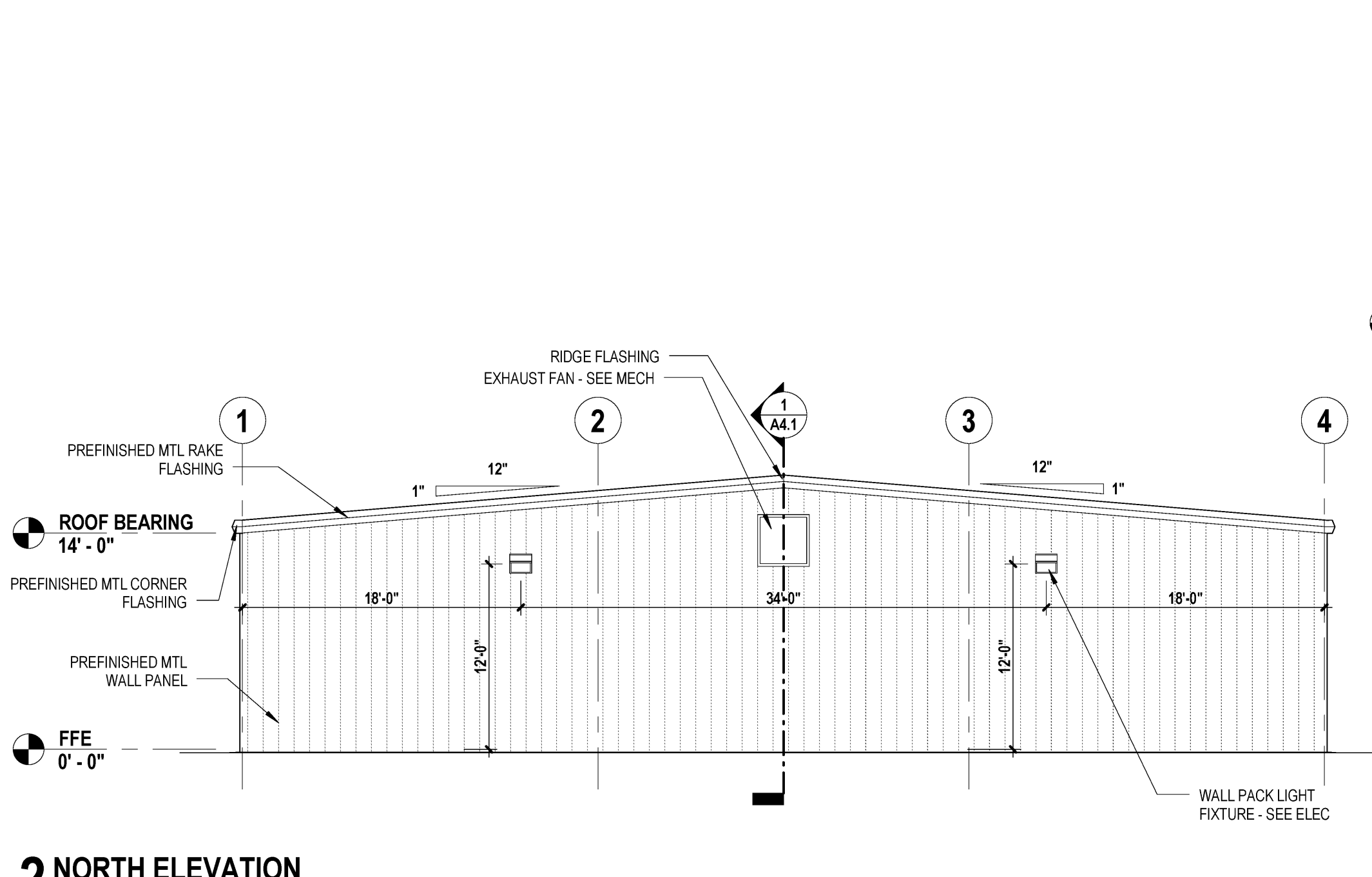
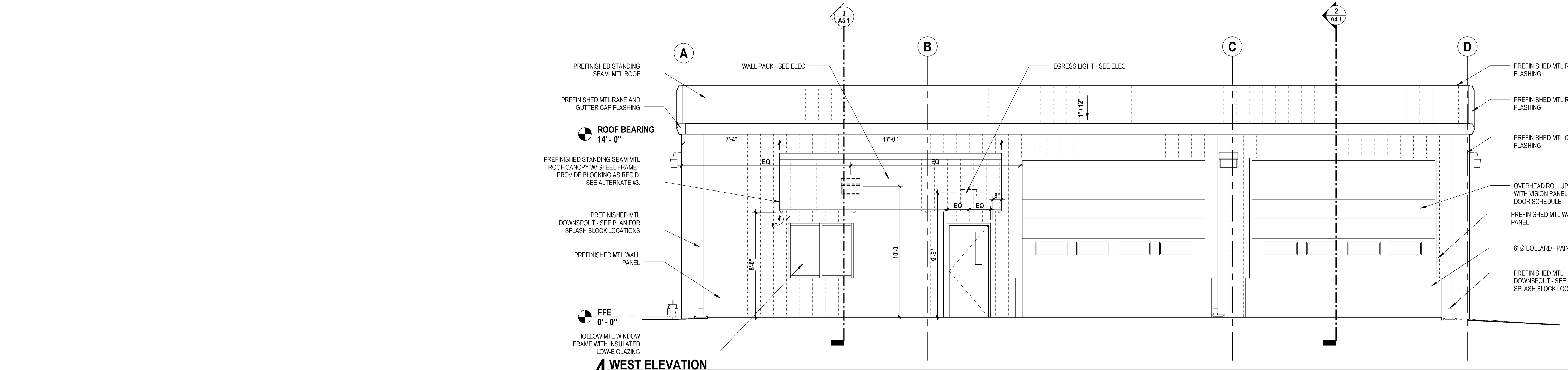


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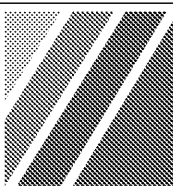
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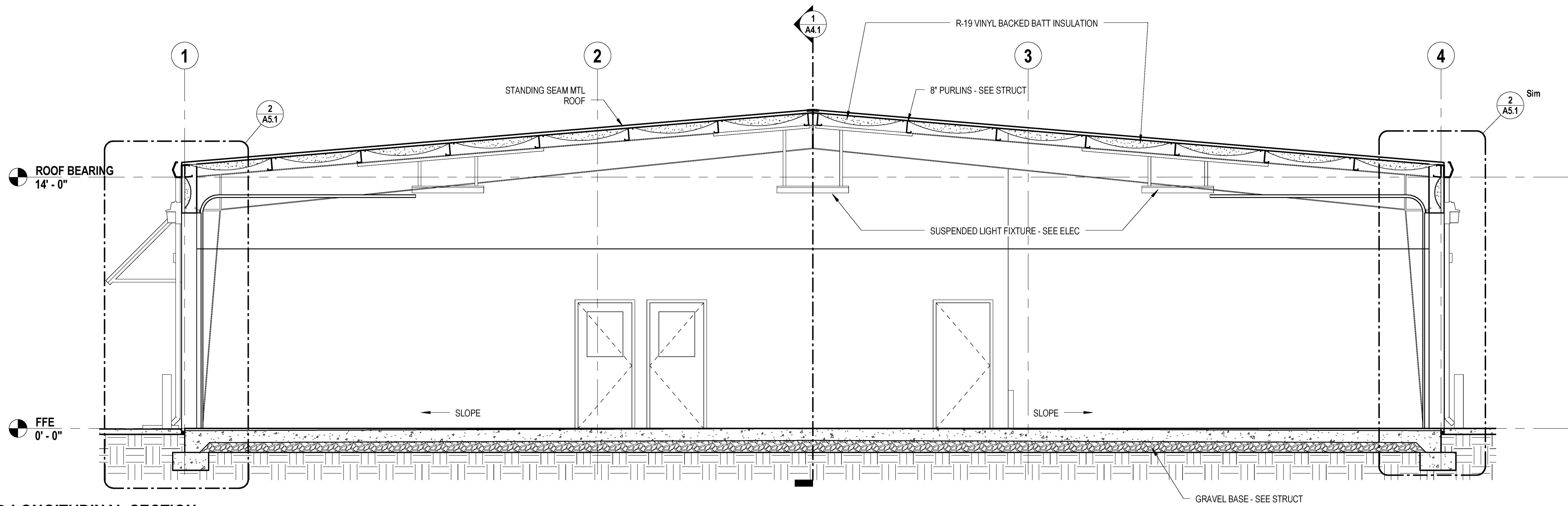


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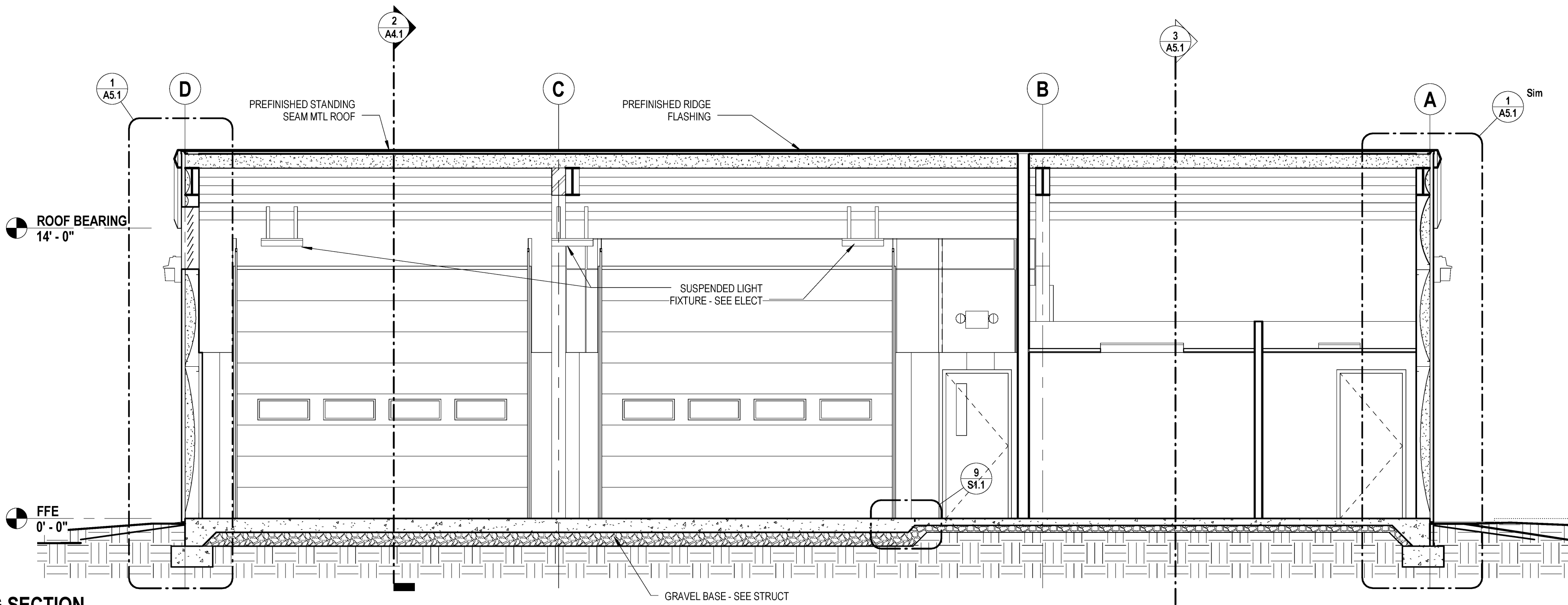
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FIRE STATION

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2 LONGITUDINAL SECTION



1 BUILDING SECTION



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BUILDING SECTIONS

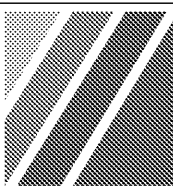
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FIRE STATION

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WALL SECTIONS

:REVISIONS

NO.	DESCRIPTION	DATE

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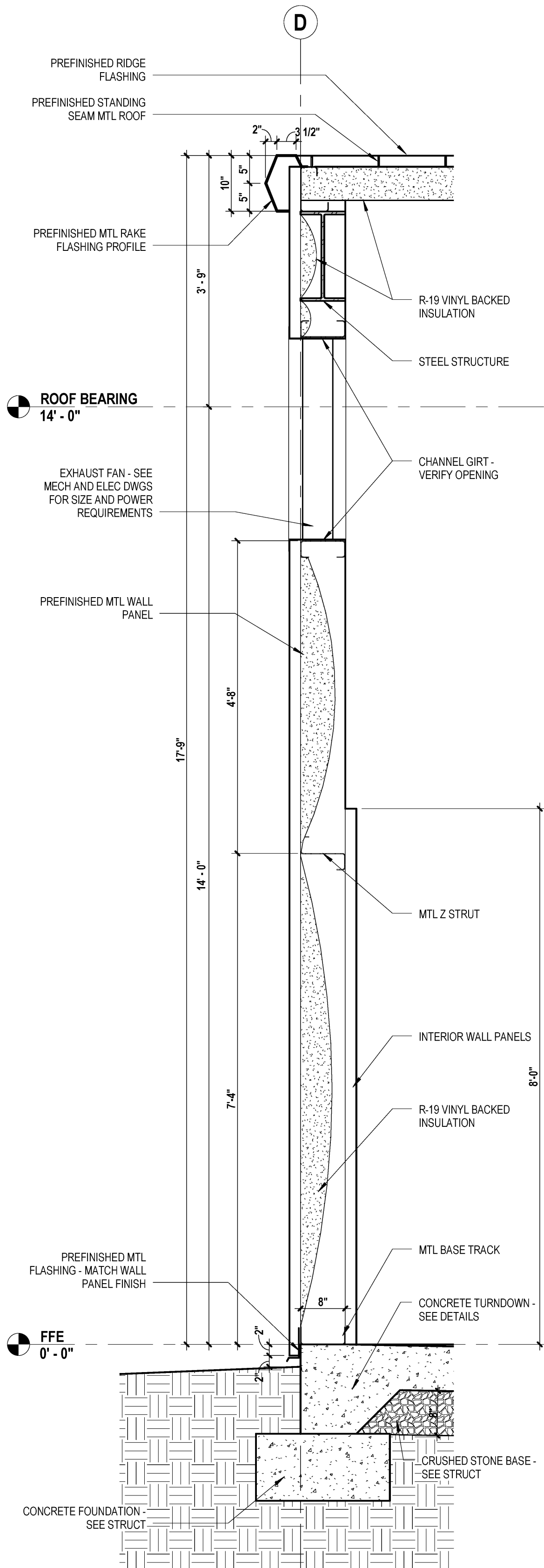
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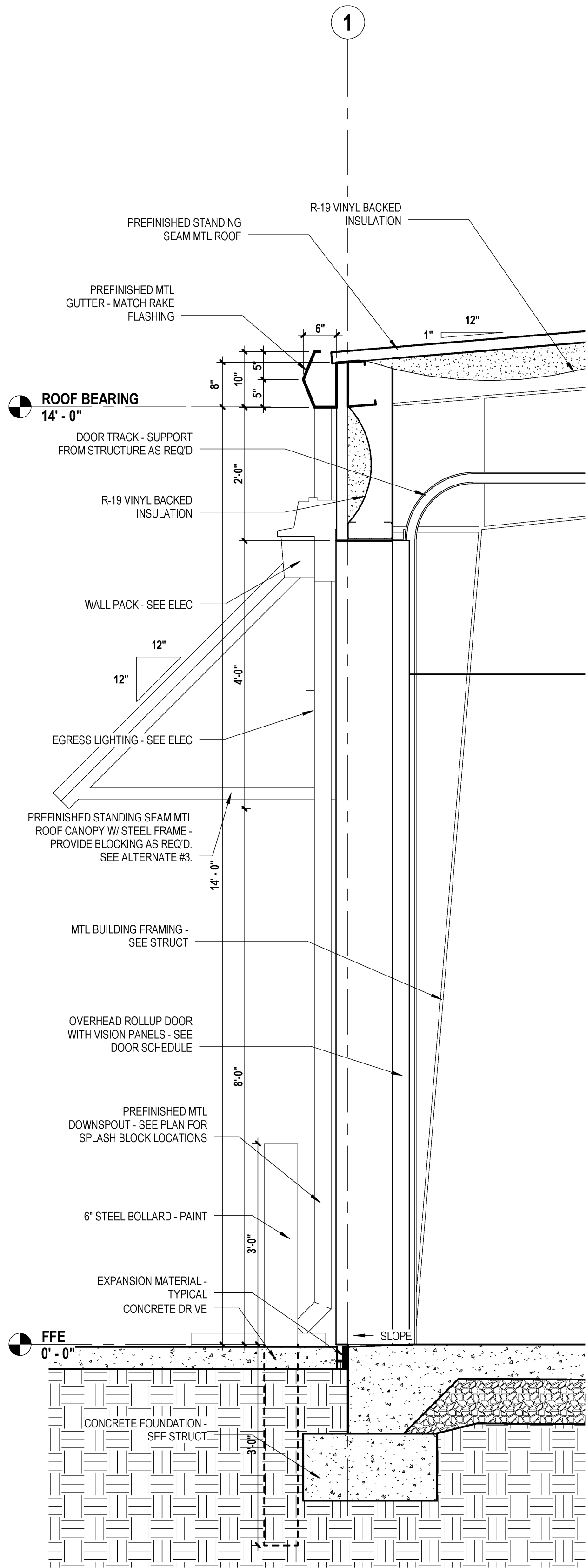
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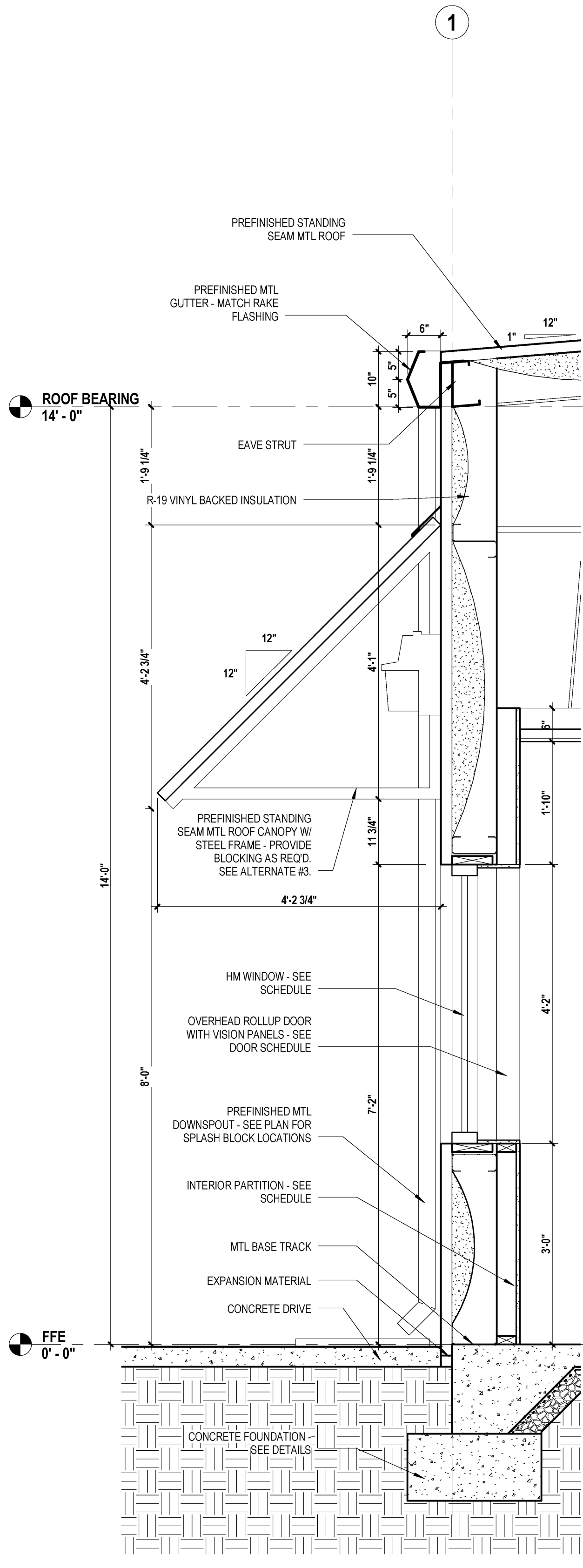
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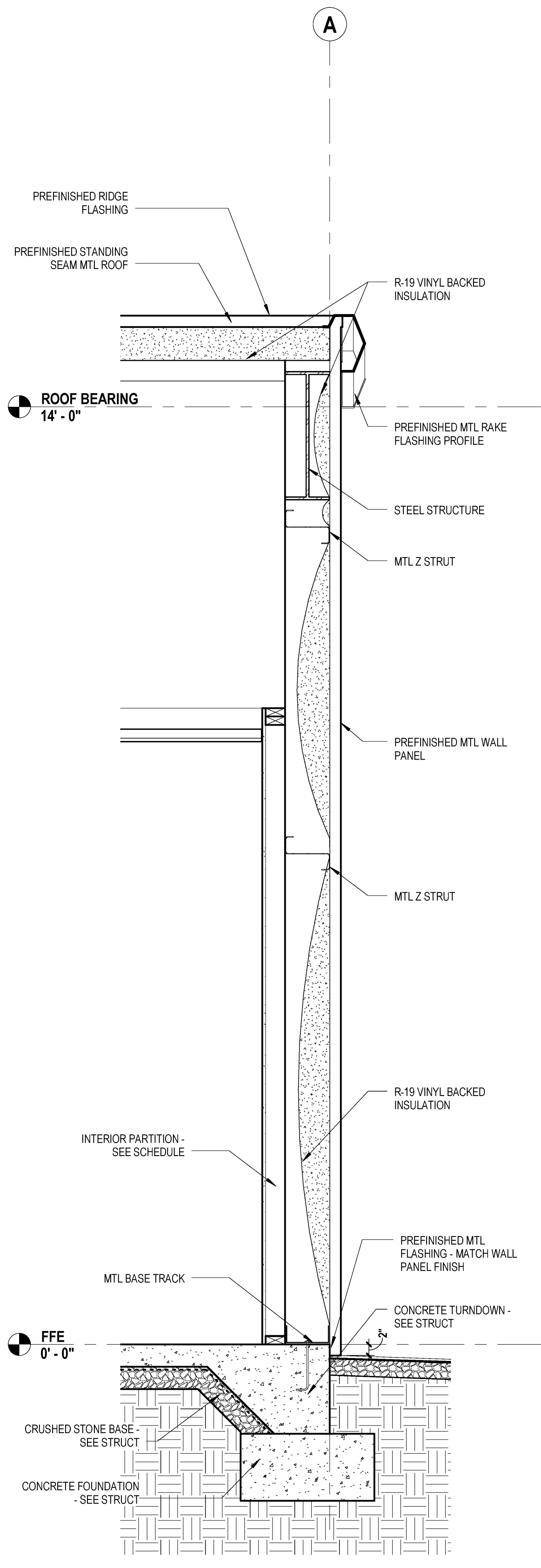
1 WALL SECTION - TYPICAL
3/4" = 1'-0"



2 TYPICAL WALL SECTION AT GUTTER
3/4" = 1'-0"



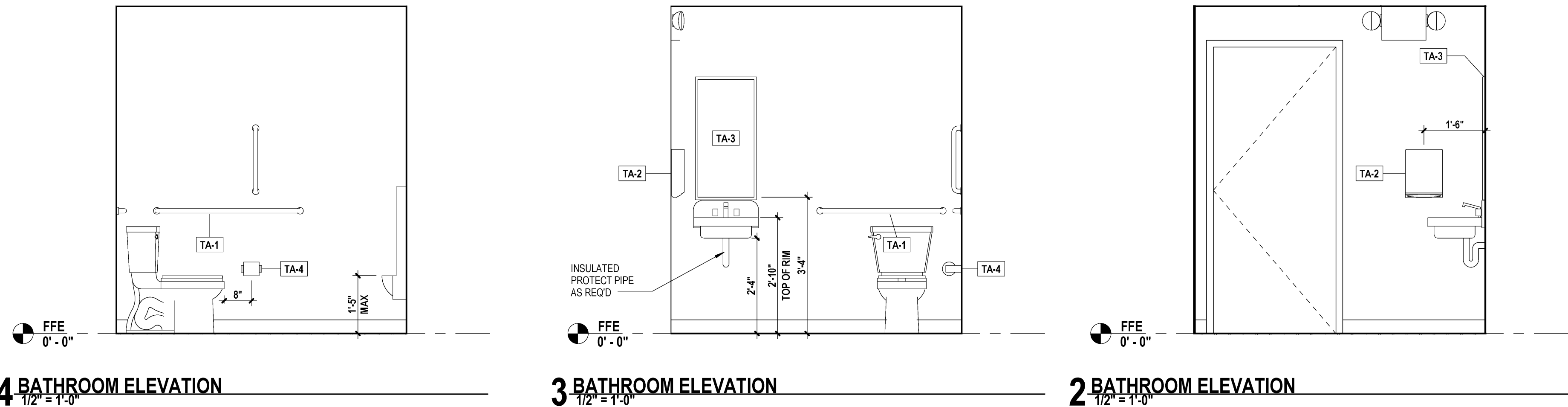
3 WALL SECTION WITH CANOPY
3/4" = 1'-0"



4 WALL SECTION AT FURRING WALL
3/4" = 1'-0"

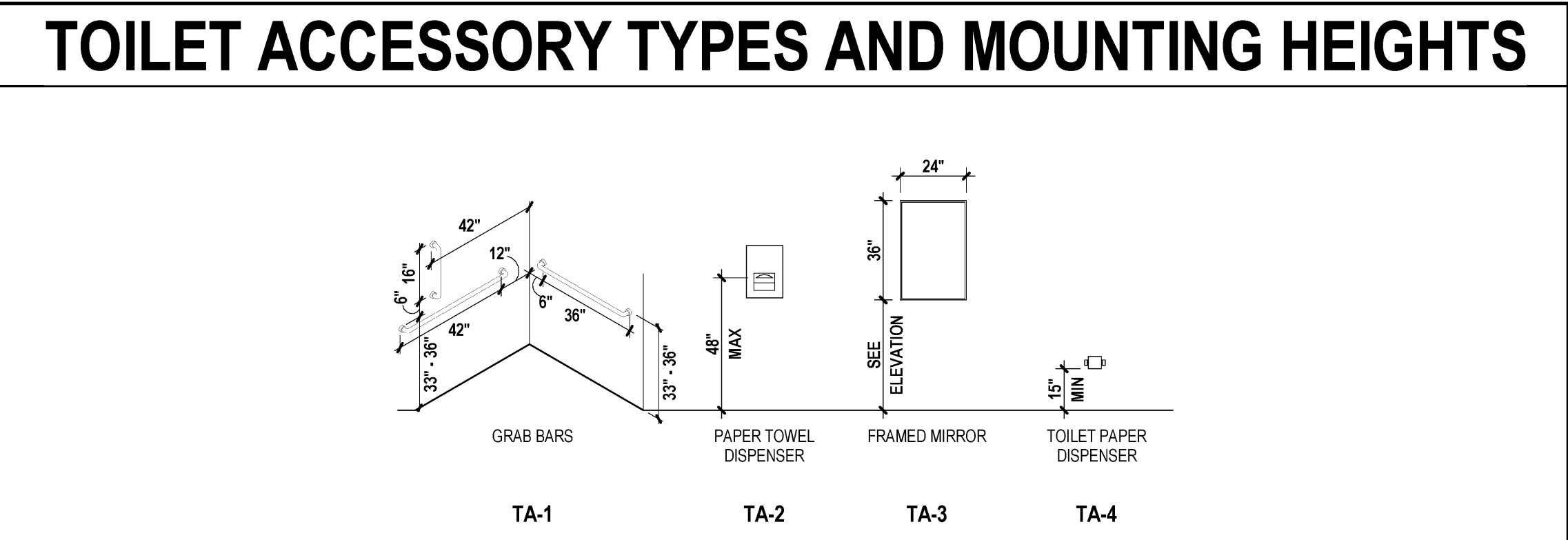
FIRE STATION

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS



FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	ACCENT FINISH				CEILING FINISH	COMMENTS
					NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL		
101	EQUIPMENT AREA	SC	RB-1	GYP BD & WP	GYP BD	WP	WP	WP	OPEN ABOVE	SEE FINISH PLAN
102	CONF ROOM	VCT-1	RB-1	GYP BD					ACT-1	
103	OFFICE	VCT-1	RB-1	GYP BD					ACT-1	
104	STORAGE	SC	RB-1	GYP BD					OPEN ABOVE	
105	RESTROOM	SC	RB-1	GYP BD					ACT-1	
105	HVAC	SC	RB-1	GYP BD					ACT-1	
106	STORAGE	SC	RB-1	GYP BD & WP	WP	GYP BD	WP	GYP BD	OPEN ABOVE	SEE FINISH PLAN
107	JAN	SC	RB-1	GYP BD		FRP-1		FRP-1	OPEN ABOVE	FRP FINISH 48" A.F.F. - SEE FINISH PLAN

SEE SHEET A7.2 FOR MATERIAL SELECTIONS



:STAMP



BID SET

:SHEET TITLE

ENLARGED BATHROOM
PLANS & ELEVATIONS

:REVISIONS

NO.	DESCRIPTION	DATE

JULY 7, 2016

:ISSUE DATE

14-117

:PROJECT NUMBER

:SHEET NUMBER

A6.1

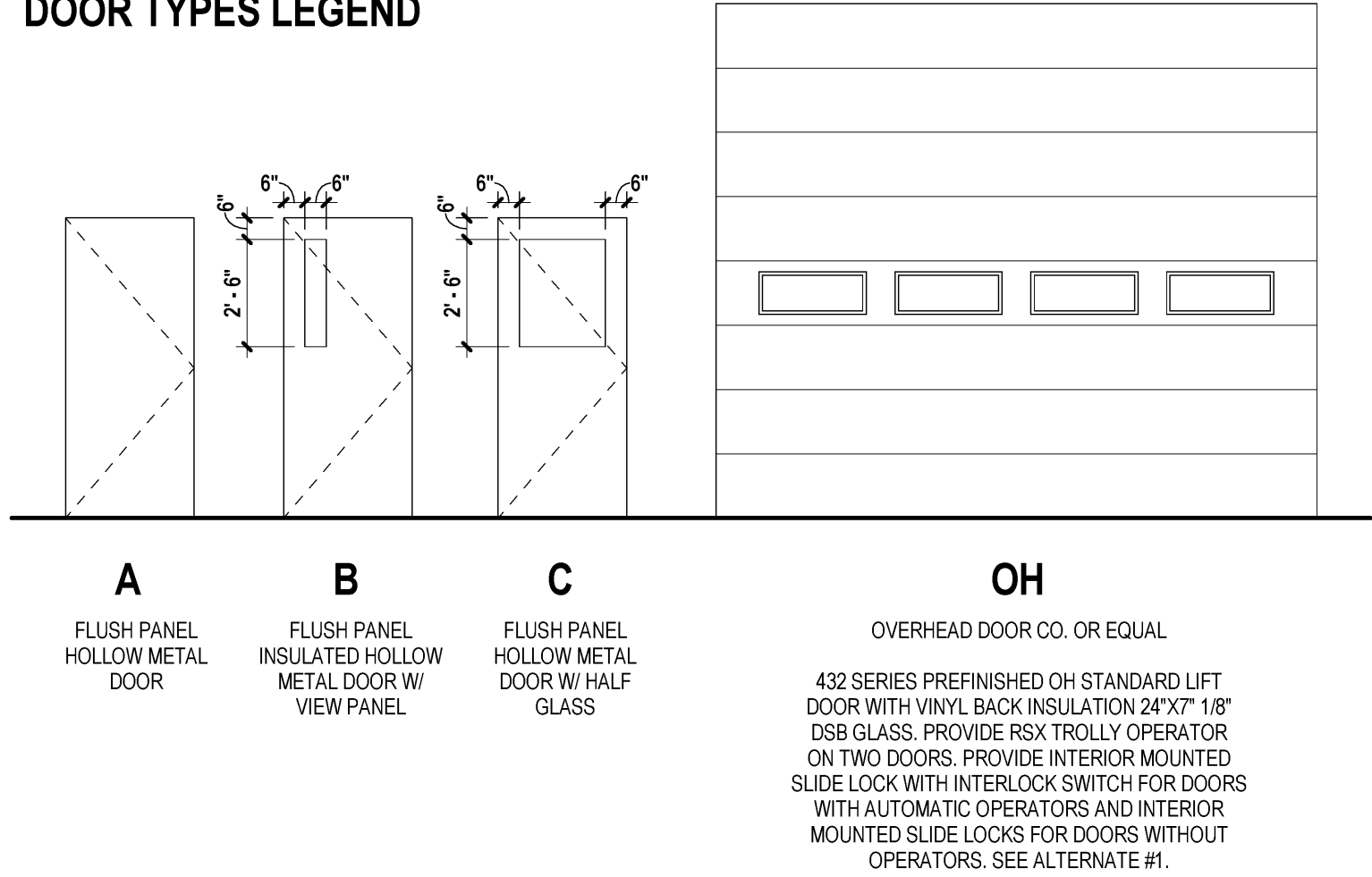
HARDWARE SETS

HW-1		HW-2		HW-3		HW-4	
3	Hinges (HMWD Doors)	3	Pair Hinges (HMWD Doors)	3	Hinges (HMWD Doors)	3	Pair Hinges (HMWD Doors)
1	Deadbolt	1	Strike	1	Strike	1	Strike
1	Storeroom Lock Lever	1	Storeroom Lock Lever	1	Storeroom Lock Lever	1	Privacy Lock Set Lever
1	Exit Device	1	Threshold	1	Threshold	1	Threshold
1	Door Closer (surface)	1	Gasketing	1	Gasketing	1	Gasketing
1	Kick Plate						
1	Wall Stop						
1	Threshold						
1	Rain Guard						
1	Gasketing						

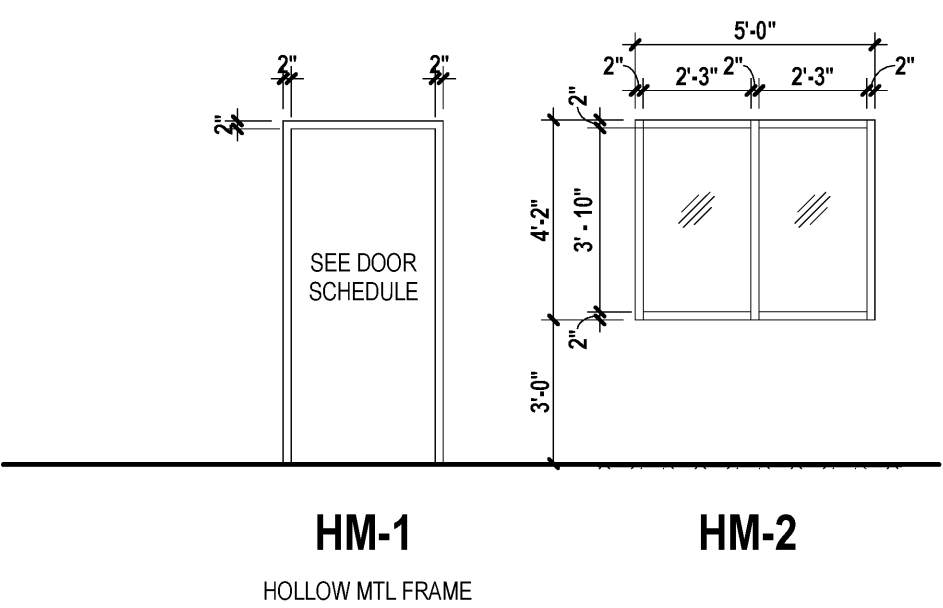
DOOR SCHEDULE

DOOR NUMBER	SIZE			TYPES		MATERIAL	HARDWARE SET NUMBER	COMMENTS
	WIDTH	HEIGHT	THICKNESS	DOOR TYPE	FRAME			
101A	3' - 0"	7' - 0"	1 3/8"	B	HM-1	MTL	HW-1	
101B	3' - 0"	7' - 0"	1 3/8"	B	HM-1	MTL	HW-1	
101C	14' - 0"	12' - 0"	1 3/8"	OH	STL CHANNEL	MTL/GLASS		OPERATOR
101D	14' - 0"	12' - 0"	1 3/8"	OH	STL CHANNEL	MTL/GLASS		NO OPERATOR
101E	14' - 0"	12' - 0"	1 3/8"	OH	STL CHANNEL	MTL/GLASS		OPERATOR
101F	14' - 0"	12' - 0"	1 3/8"	OH	STL CHANNEL	MTL/GLASS		NO OPERATOR
102	3' - 0"	7' - 0"	1 3/8"	C	WD-1	WOOD	HW-2	
103	3' - 0"	7' - 0"	1 3/8"	C	WD-1	WOOD	HW-2	
104A	3' - 0"	7' - 0"	1 3/8"	A	WD-1	WOOD	HW-3	UNDERCUT DOOR
104B	3' - 0"	7' - 0"	1 3/8"	A	WD-1	WOOD	HW-3	UNDERCUT DOOR
105	3' - 0"	7' - 0"	1 3/8"	A	WD-1	WOOD	HW-4	

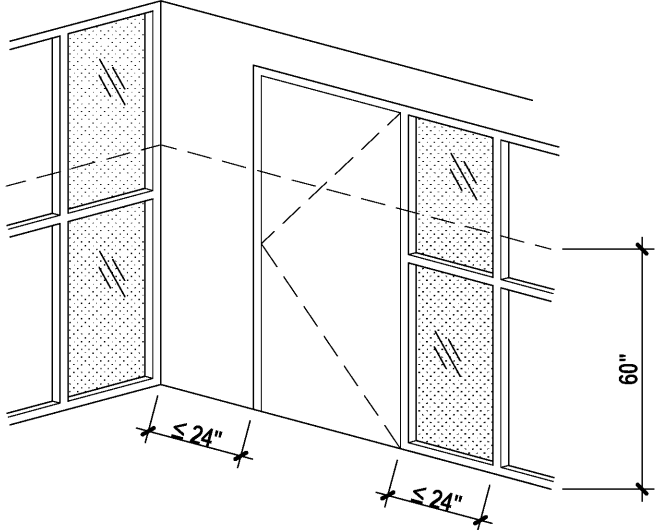
DOOR TYPES LEGEND



FRAME TYPES LEGEND



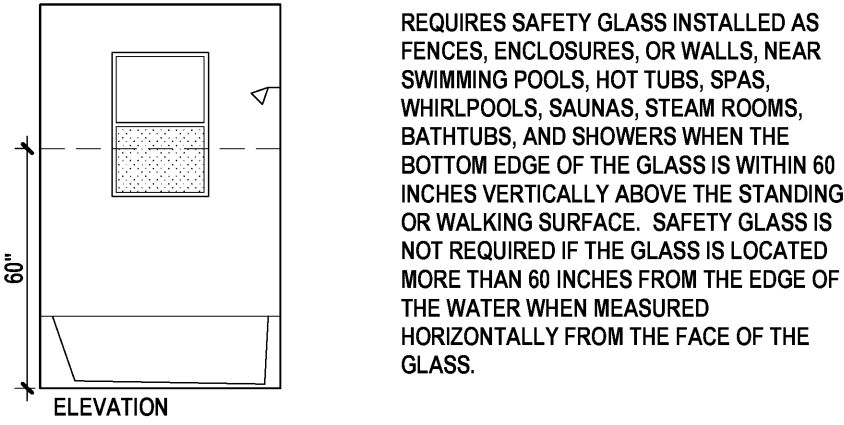
GLASS PANELS ADJACENT TO DOORS



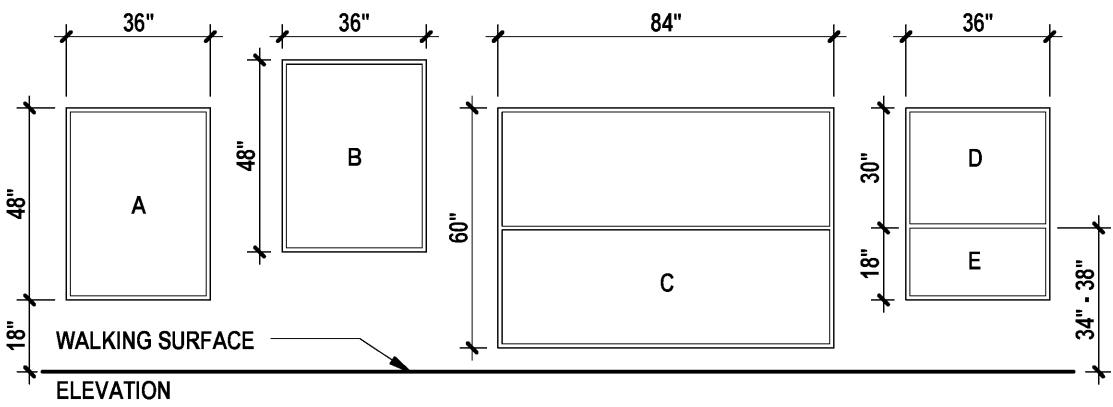
GLASS PANELS FOR DOORS AND WALLS

ACCEPTABLE NOT RECOMMENDED NOT PERMITTED	+ - X	WIRED	ANNEALED	LAMINATED	TEMPERED	PRE-RATED
FIRE RATED GLAZING	FIRE RATED GLAZING	X	+	X	X	+
	SAFETY REQUIRED	X	X	X	X	+
NON-FIRE RATED GLAZING	FIRE RATED GLAZING	+	+	+	+	-
	SAFETY REQUIRED	X	X	+	+	-

WET AREAS



GLASS PANELS ADJACENT TO WALKWAY SURFACE



GLASS PANEL	SAFETY GLAZING REQ'D	REMARKS
A	YES	PANEL A IS MORE THAN 9 SF IN AREAS AND ITS LOWEST EDGE EXTENDS TO WITHIN 18" OF THE WALKING SURFACE
B & D	NO	THE LOWEST EDGE OF THE PANEL IS MORE THAN 18" ABOVE THE WALKING SURFACE
E	NO	LESS THAN 9 SF IN AREA
C	SEE REMARKS	PANEL C, BEING ONE PIECE OF GLASS MORE THAN 9 SF IN AREA AND WITHIN 18 IN OF WALKING SURFACE, IS LESS THAN 18" OF THE WALKING SURFACE. IS REQUIRED TO BE OF SAFETY GLAZING MATERIALS UNLESS A HORIZONTAL MEMBER NOT LESS THAN 1 1/2" IN WIDTH IS LOCATED BETWEEN 34" AND 38" ABOVE THE WALKING SURFACE

FIRE STATION

GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

:STAMP



BID SET

:SHEET TITLE

DOOR AND WINDOW
SCHEDULE

:REVISIONS

NO.	DESCRIPTION	DATE

:ISSUE DATE

JULY 7, 2016

:PROJECT NUMBER

14-117

:SHEET NUMBER

A7.1

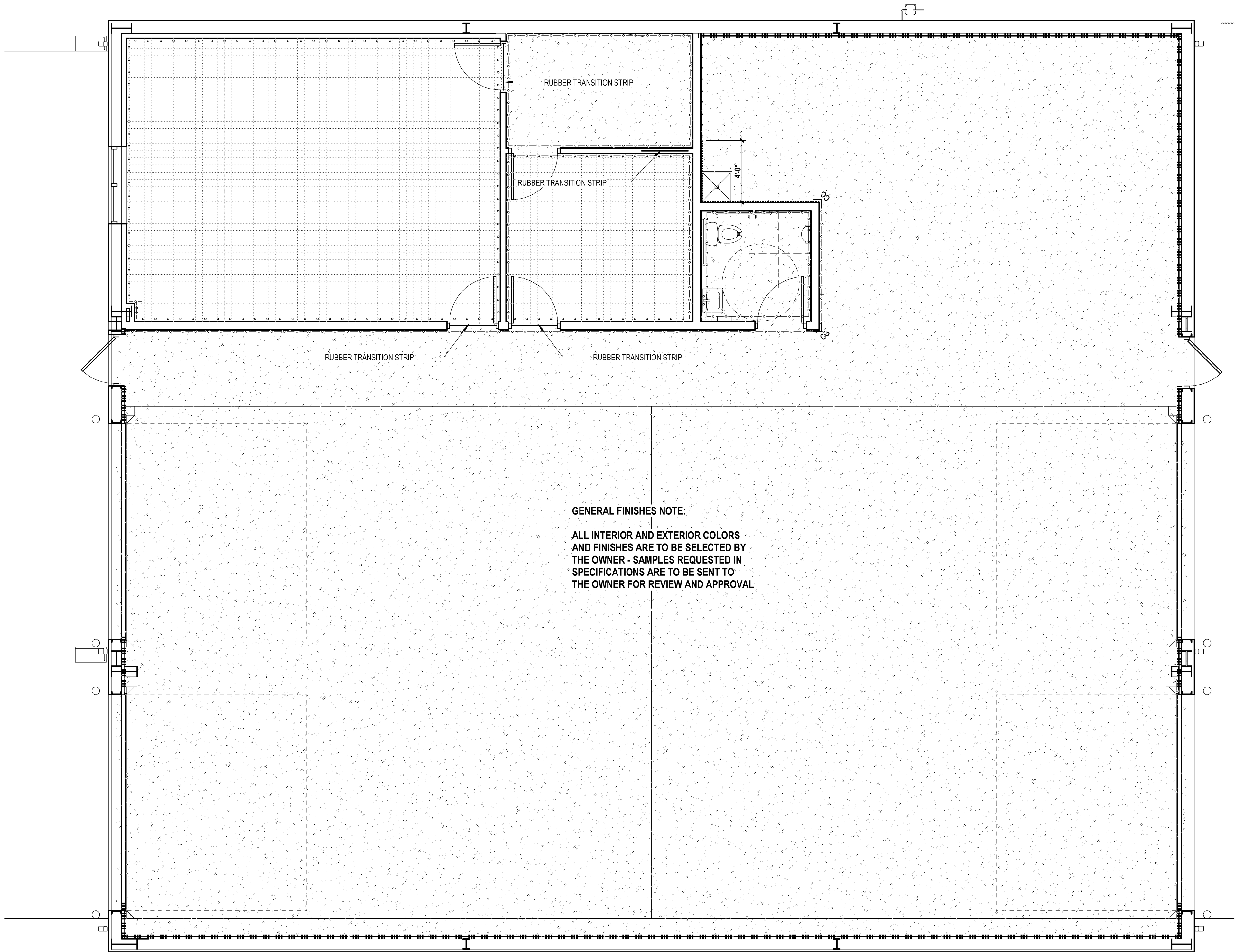
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R:\SHARED PROJECTS\14-117 Griffithville fire station\1-Drawings\Central File-REV\14-117 Griffithville Fire Station - 10.31.16.rvt 2x4

MATERIAL SELECTIONS				
ITEM	MATERIAL	MANUFACTURER	PATTERN/COLOR	REMARKS
RB-1	RUBBER BASE	ROPPE	SELECTED BY OWNER	TRANSITION STRIP TO MATCH FINISH
TRANS-1	TRANSITION STRIP	ROPPE	SELECTED BY OWNER	TRANSITION STRIP TO MATCH FINISH
P-1	TYPICAL WALL PAINT-LATEX-EGGSHELL	SHERWIN WILLIAMS	SELECTED BY OWNER	
P-2	DOOR & TRIM PAINT-LATEX-SEMI-GLOSS	SHERWIN WILLIAMS	SELECTED BY OWNER	INTERIOR DOORS & TRIM
P-3	DOOR/WINDOW & TRIM PAINT-OIL BASE-SEMI-GLOSS	SHERWIN WILLIAMS	SELECTED BY OWNER	EXTERIOR DOOR/WINDOW & TRIM
VCT-1	VINYL COMPOSITE TILE	ARMSTRONG	SELECTED BY OWNER	
WP-1	8'-0" PREFINISHED METAL LINER PANEL GRID	MTL BLDG MAN.	SELECTED BY OWNER	
ACT - 1	2x2-CORTEGA TEGULAR #704 W/ 15/16" GRID	ARMSTRONG	WHITE	
FRP - 1	FIBERGLASS REINFORCED PLASTIC			
SC	SEALED CONCRETE			

FINISH SCHEDULE										
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	ACCENT FINISH				CEILING FINISH	COMMENTS
					NORTH WALL	SOUTH WALL	EAST WALL	WEST WALL		
101	EQUIPMENT AREA	SC	RB-1	GYP BD & WP	GYP BD	WP	WP	WP	OPEN ABOVE	SEE FINISH PLAN
102	CONF ROOM	VCT-1	RB-1	GYP BD					ACT-1	
103	OFFICE	VCT-1	RB-1	GYP BD					ACT-1	
104	STORAGE	SC	RB-1	GYP BD					OPEN ABOVE	
105	RESTROOM	SC	RB-1	GYP BD					ACT-1	
105	HVAC	SC	RB-1	GYP BD					ACT-1	
106	STORAGE	SC	RB-1	GYP BD & WP	WP	GYP BD	WP	GYP BD	OPEN ABOVE	SEE FINISH PLAN
107	JAN	SC	RB-1	GYP BD		FRP-1		FRP-1	OPEN ABOVE	FRP FINISH 48" A.F.F. - SEE FINISH PLAN

1. RUBBER BASE ALONG GYP BD WALLS ONLY
2. FRP FINISH 48" A.F.F.

FINISHED FLOOR LEGEND		
FLOORING	WALL COVERINGS	WALL PROTECTION
SC	VCT-1	FRP-1
TRANS - 1	PAINT	WP-1
	P-1	CORNER GUARD



1 FINISH FLOOR PLAN
1/4" = 1'-0"

FIRE STATION
GRIFFITHVILLE, WHITE COUNTY, ARKANSAS

:STAMP



BID SET

:SHEET TITLE

FLOOR FINISH PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

JULY 7, 2016

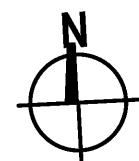
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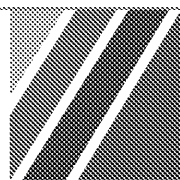
14-117

:PROJECT NUMBER

:SHEET NUMBER

A7.2



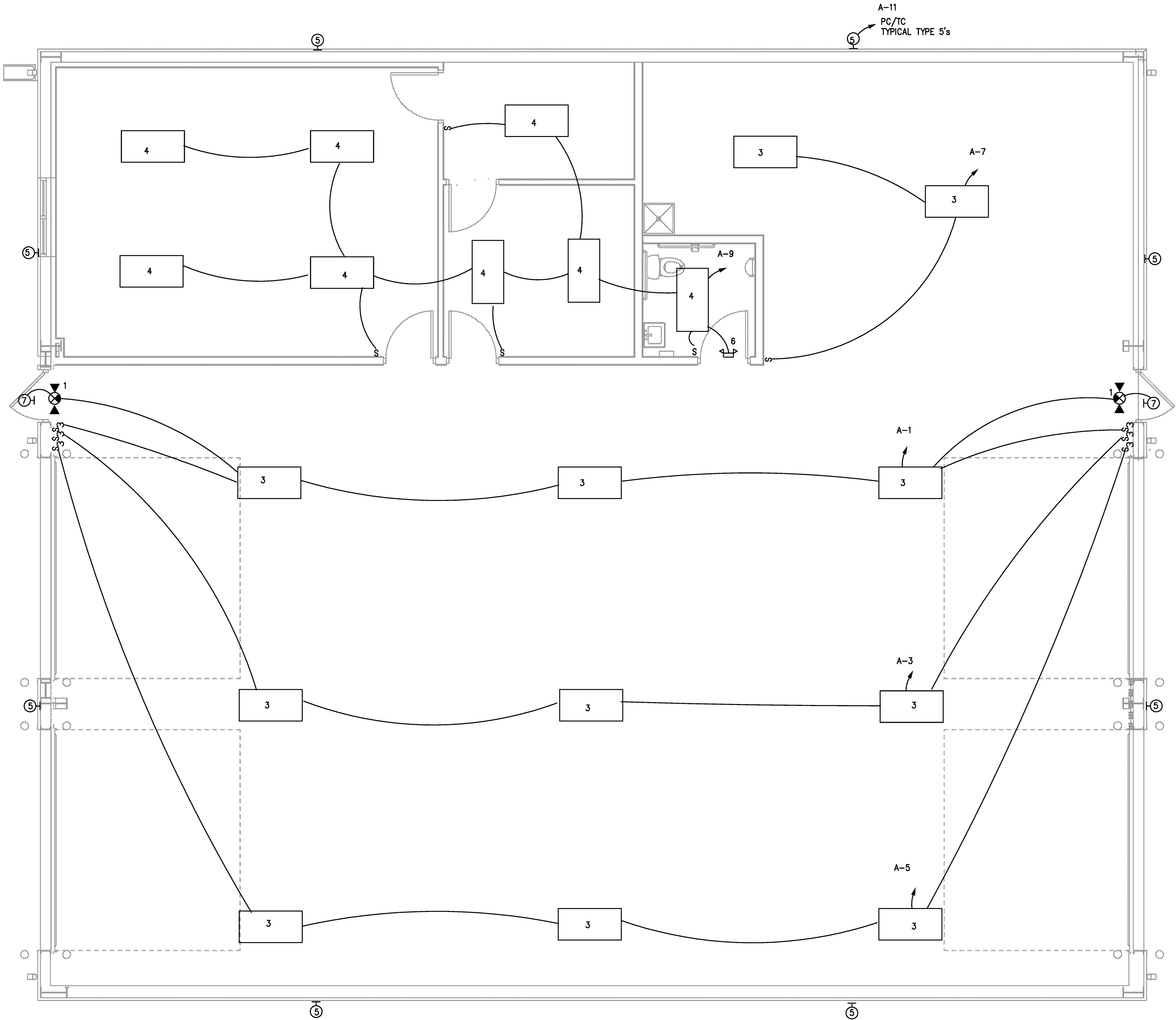


WILLIAMS & DEAN
ARCHITECTURE | INTERIOR DESIGN

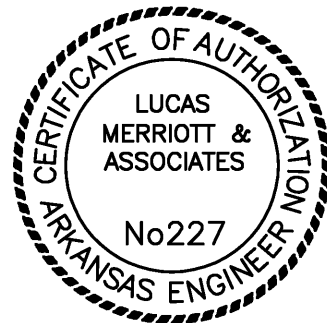
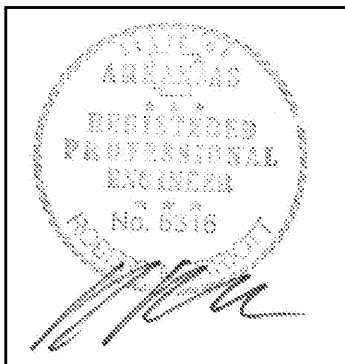
18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, ARKANSAS 72205
P 501.224.1900
www.williamsdean.com

FIRE STATION
MAIN STREET & HAMILTON DRIVE
GRIFFITHVILLE, ARKANSAS

GRIFFITHVILLE FIRESTATION FIXTURE SCHEDULE				
TYPE	MFG	MODEL NO.	LAMP	DESCRIPTION
1	EMERGILITE	ELXN400R-2LEDR	INCLUDED	EXIT/EMERGENCY COMBO
2		NOT USED		
3	MERCURY LIGHTING	HB80-454-HO-T5-ELB-UNI-CHS	4-54W T5HO	2x4 TROFFER
4	MERCURY LIGHTING	35-E-332-OCT-9A-ELB-UNI	3-32W T8	HIGH BAY
5	VISIONAIRE LIGHTING	SPK-3-ALD-48LC-3-5K-UNV-WM-BZ	LED	WALL PACK
6	EMERGILITE	EL-2LEDR	INCLUDED	2 HEAD EMERGENCY (INTERIOR)
7	EMERGILITE	EF44D-LEDWP	INCLUDED	2 HEAD REMOTE EMERGENCY (EXTERIOR)



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



7-7-16

:STAMP

BID SET

:SHEET TITLE

LIGHTING PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

JULY 7, 2016 :ISSUE DATE

14-117 :PROJECT NUMBER

E1.1 :SHEET NUMBER



18 CORPORATE HILL DRIVE, SUITE 210
LITTLE ROCK, ARKANSAS 72205
P 501.224.1900
www.williamsdean.com

FIRE STATION

MAIN STREET & HAMILTON DRIVE
GRIFFITHVILLE, ARKANSAS

:STAMP

BID SET

: SHEET TITLE

POWER & SYSTEMS
PLAN

:REVISIONS

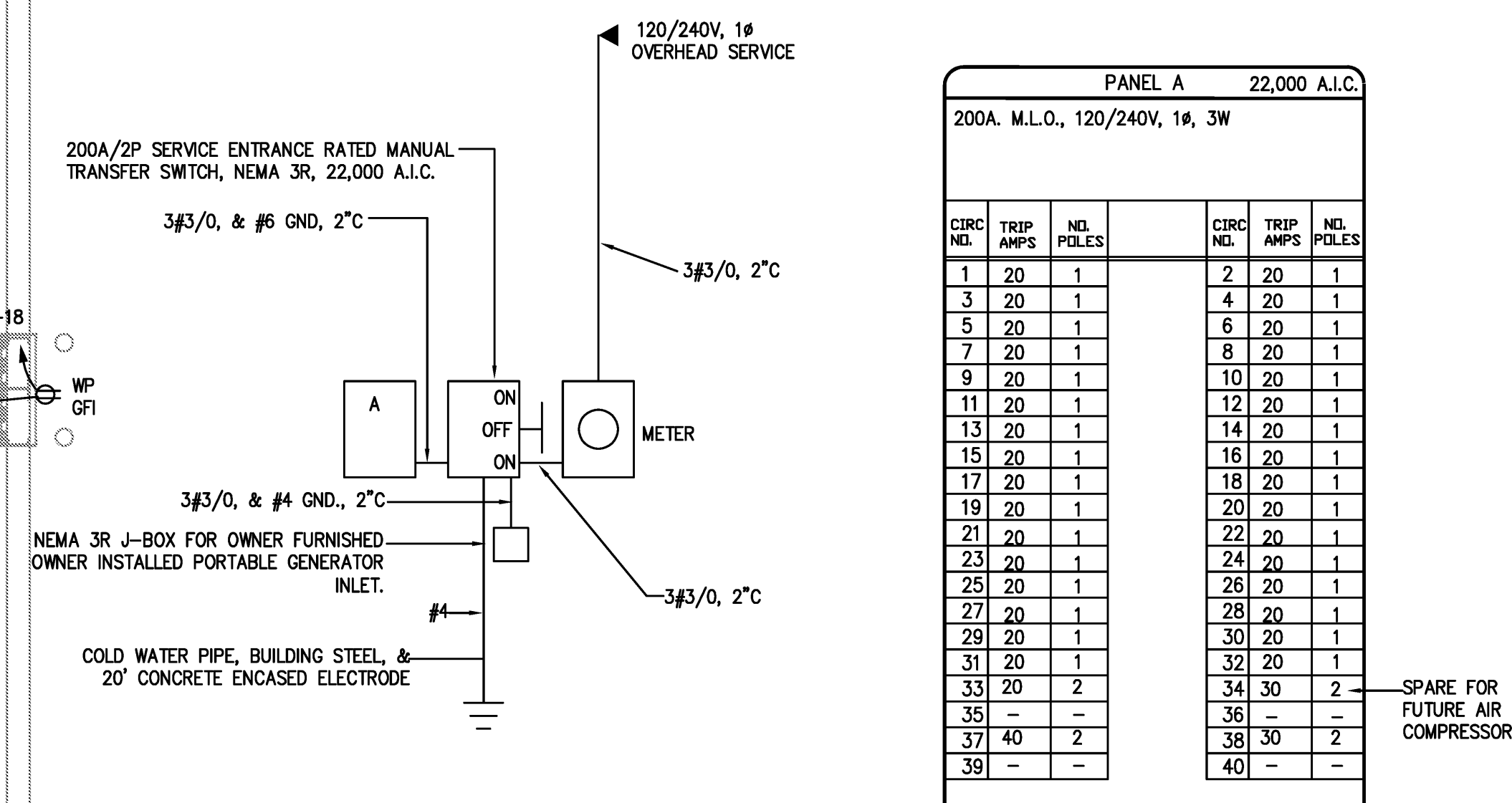
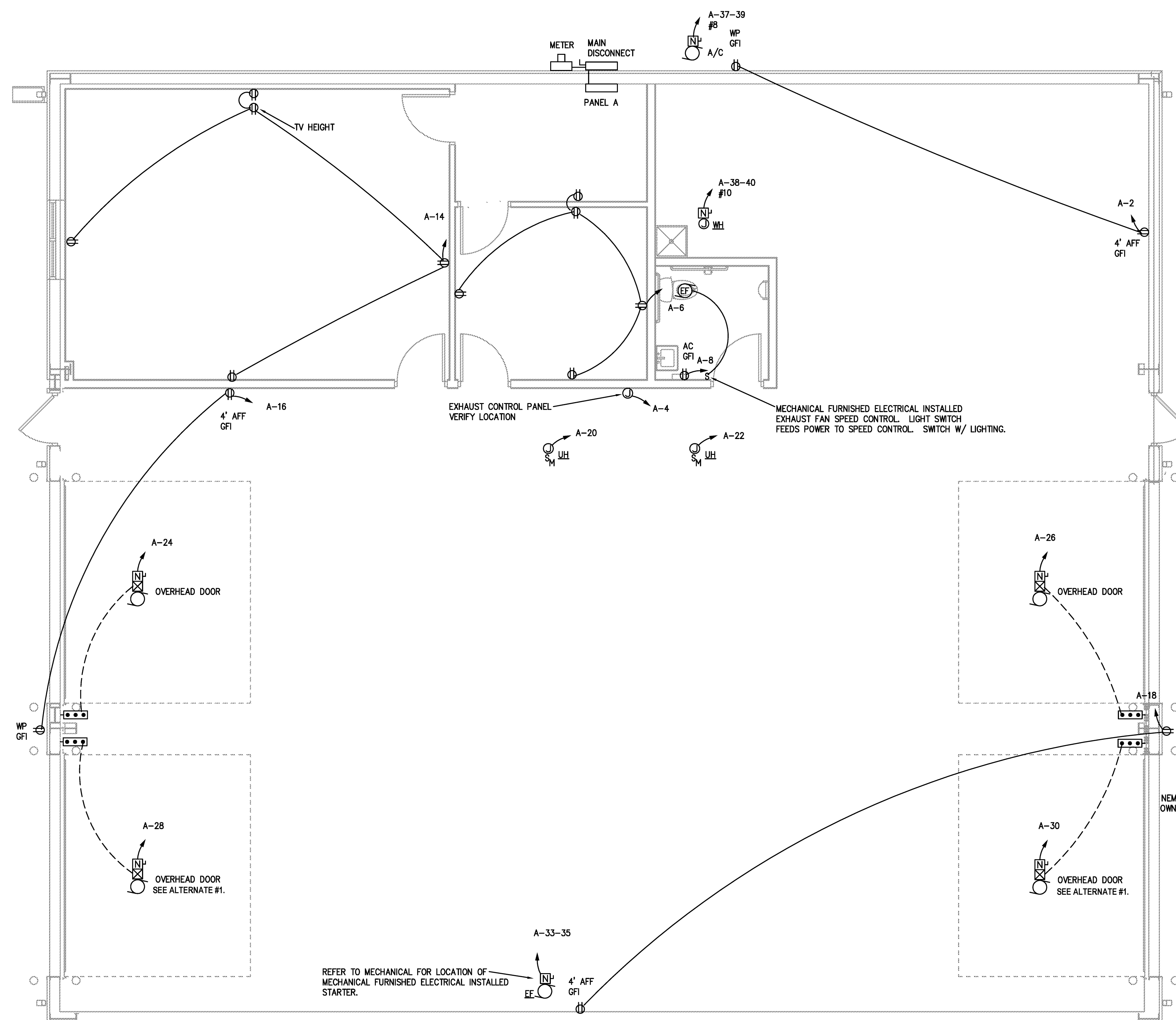
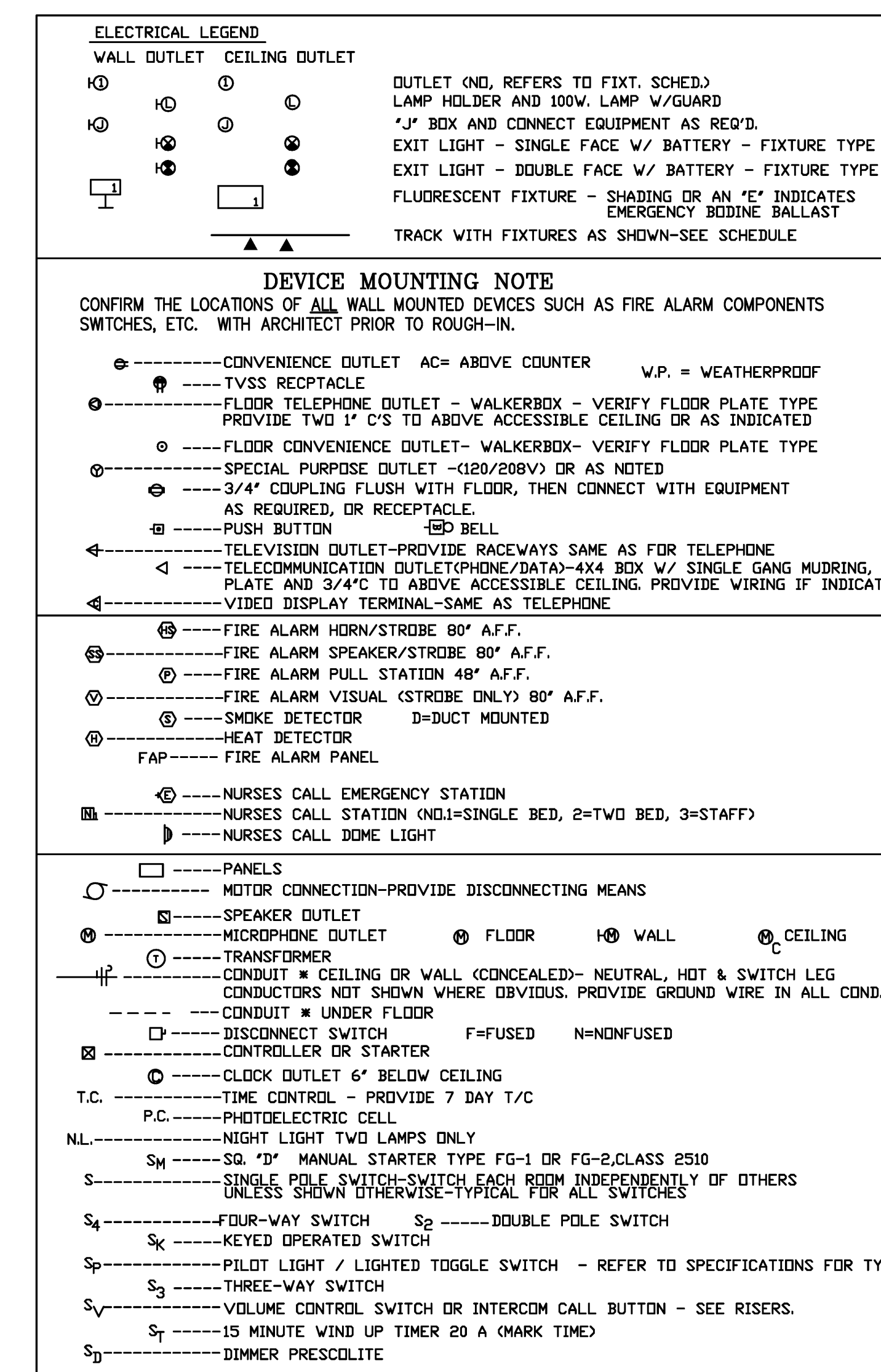
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JULY 7, 2016	:ISSUE DATE
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14-117 :PROJECT NUMBER

: SHEET NUMBER

E2.1



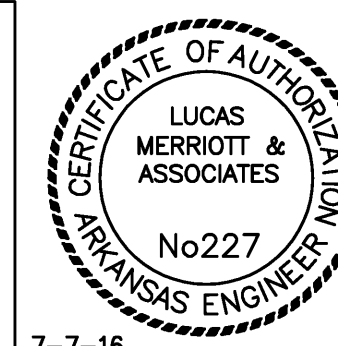
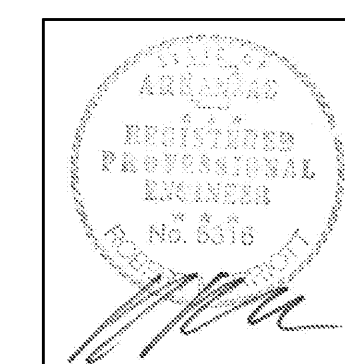
POWER RISER DIAGRAM

NOTES:

1. ELECTRICAL CONTRACTOR SHALL PAY ALL UTILITY COMPANY COSTS INCURRED FOR NEW AND RELOCATED SERVICES TO THIS FACILITY.

POWER & SYSTEMS

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



7-7-18

FIRE ENGINE EXHAUST REMOVAL SYSTEM

A CODE APPROVED SYSTEM FOR FIRE TRUCK ENGINE EXHAUST REMOVAL, SHALL BE FURNISHED AND INSTALLED BY THE OWNER, UNDER A SEPARATE CONTRACT.

EQUIPMENT AREA EXHAUST SYSTEM SEQUENCE OF OPERATION

EXHAUST FAN AND MOTORIZED OVERHEAD DOORS SHALL BE CONTROLLED BOTH MANUALLY AND AUTOMATICALLY.

MANUAL OPERATION:

EXHAUST FAN SHALL BE CONTROLLED FROM WALL MOUNTED MAGNETIC STARTER WITH START-STOP PUSHBUTTONS. OVERHEAD DOORS SHALL BE INDIVIDUALLY OPENED/CLOSED FROM INDIVIDUAL WALL MOUNTED DOOR CONTROLLERS. PROVIDE LIMIT SWITCHES ON MOTORIZED OVERHEAD DOORS TO ALLOW EXHAUST FAN TO RUN, ONLY WHEN DOORS ARE OPEN.

AUTOMATIC OPERATION:

WALL MOUNTED SENSORS, CARBON MONOXIDE (CO) AND NITROUS DIOXIDE (NO2), AND TRANSMITTERS, THROUGH CONTROL PANEL IN EQUIPMENT AREA, ON SENSING OF CO/NO2 IN EXCESS OF SET-POINTS (ADJUSTABLE), SHALL ACTIVATE EXHAUST FAN AND OPEN MOTORIZED OVERHEAD DOORS. THIS SHALL ACTIVATE AUDIBLE/VISIBLE ALARMS, WHICH SHALL BE MANUALLY SILENCED. SYSTEM SHALL REMAIN IN OPERATION FOR ADJUSTABLE TIME PERIOD AFTER CO/NO2 LEVELS DROP BELOW SET POINT, THEN SHUT OFF. CONTROL SYSTEM AND SEQUENCE SHALL COMPLY WITH ASHRAE, NFPA, AND ALL APPLICABLE CODES. CONTROL SYSTEM SHALL BE EQUAL TO, AND AS MANUFACTURED BY ARMSTRONG, BRASCH, MACURCO, OR DWYER. THE ABOVE DESCRIBED SYSTEM SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR, UNDER THIS CONTRACT; COORDINATE WITH ELECTRICAL CONTRACTOR. THE HVAC CONTRACTOR SHALL INCLUDE ALL COSTS IN THE HVAC CONTRACT.

HVAC EQUIPMENT RATINGS

UNIT HEATERS #1 AND #2
DAYTON MODEL 4LX56, POWER VENTED HORIZONTAL UNIT HEATER; 150 MBH INPUT, 83 PERCENT EFFICIENCY, 2400 CFM; 5.6 AMPS, 120 VOLT; WITH THERMOSTAT; EXTEND DUAL-WALL GAS VENT THROUGH ROOF TO APPROVED CAP.

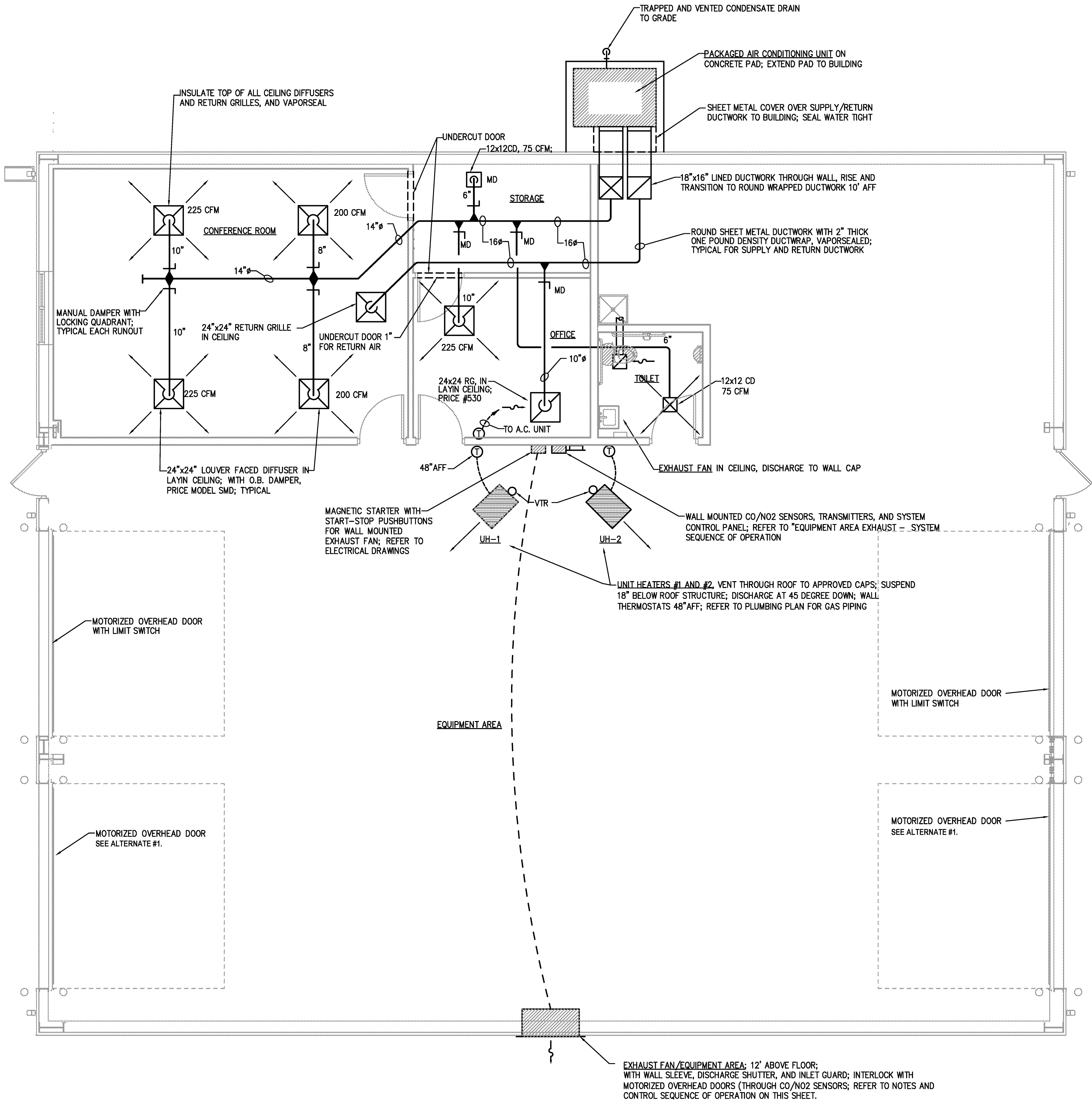
TOILET EXHAUST FAN
BROAN MODEL QTXE110; CEILING FAN WITH GRILLE; RATED AT 110 CFM AT 0.10" STATIC PRESSURE, .3 AMPS, 120 VOLT; 0.7 SONES, WITH HANGER KIT, AND SPEED CONTROLLER; 6" DIAMETER DISCHARGE DUCT TO WALL CAP WITH BACKDRAFT DAMPER.

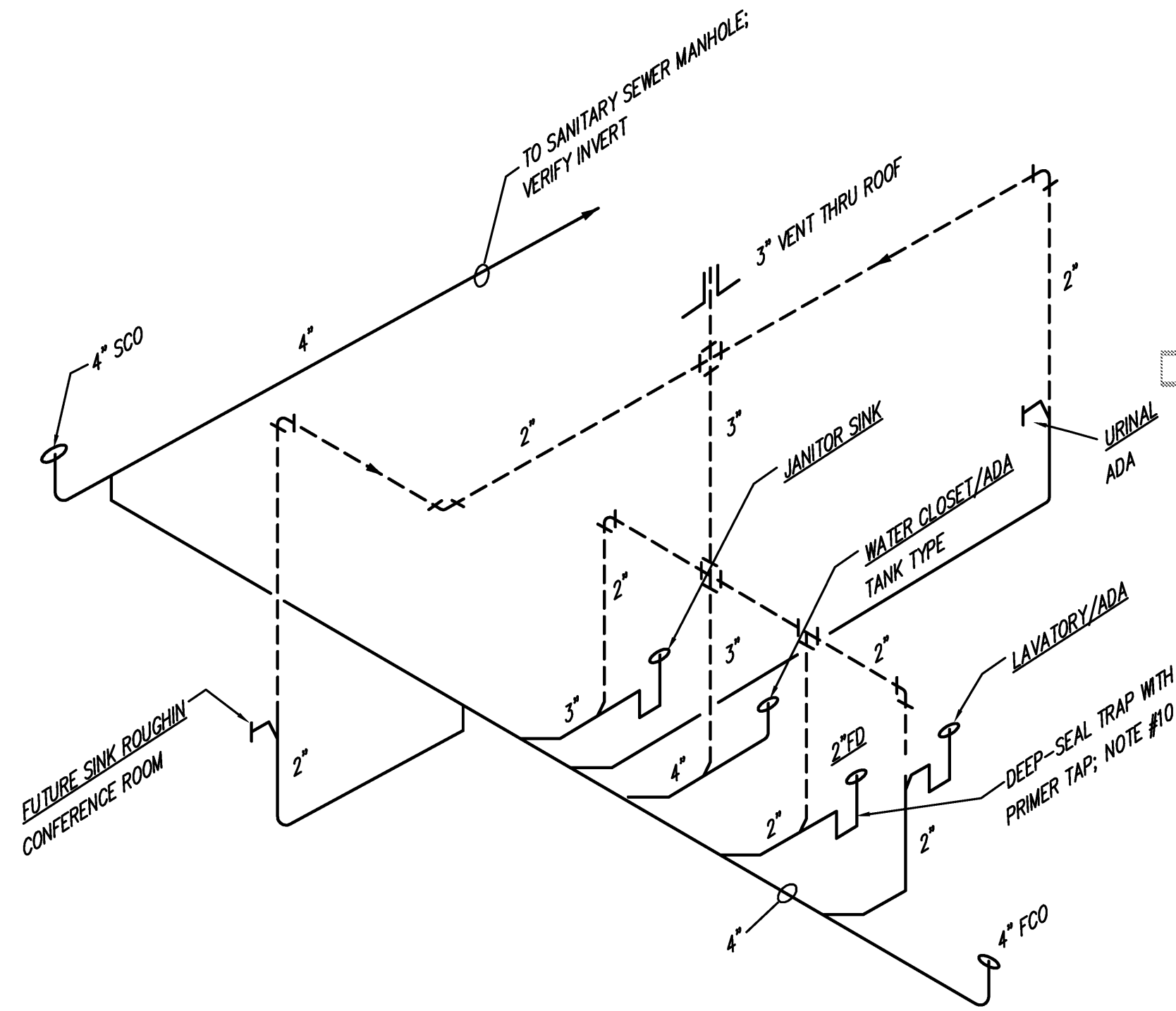
EXHAUST FAN/EQUIPMENT AREA
DAYTON MODEL 1AHD3; 42" DIAMETER BELT DRIVEN WALL-MOUNT CABINET EXHAUST FAN WITH ADJUSTABLE MOTOR PULLEY; WITH WALL HOUSING, GRAVITY WALL SHUTTER, INLET GUARD; RATED AT 12157 CFM AT 0.125" STATIC PRESSURE, 17.5 SONES; 1HP, 240 VOLT, SINGLE PHASE MOTOR; FURNISH WITH MAGNETIC MOTOR STARTER WITH START-STOP PUSHBUTTONS.

PACKAGED AIR CONDITIONING UNIT
TRANE PACKAGED UNIT, GAS HEATING/ELECTRIC COOLING, PAD MOUNTED, RATED AT 36 MBH TOTAL COOLING AT ARI CONDITIONS, 13 SEER; 60 MBH MIN. HEATING ; 1200 CFM AT 0.7 EXTERNAL STATIC PRESSURE; 240 VOLT, SINGLE PHASE, WITH THE FOLLOWING ACCESSORIES: LOW AMBIENT TO 0 DEGREE F.; OUTSIDE AIR INTAKE HOOD WITH DAMPER AND FILTER; DUCT SMOKE DETECTOR, CRANKCASE HEATER, SHORT CYCLE PROTECTOR, TXV CONTROL, 3 SETS PLEATED FILTERS, COIL GUARD, PROGRAMMABLE THERMOSTAT.

HVAC NOTES:

- ALL MECHANICAL WORK SHALL COMPLY WITH THE ARKANSAS STATE MECHANICAL CODE, AND FIRE CODE, LIFE SAFETY CODE, AMERICAN DISABILITIES ACT, SEISMIC CODES, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. COORDINATE ALL WORK WITH CODE OFFICIALS PRIOR TO BEGINNING OF WORK.
- ALL SHEET METAL DUCTWORK SHALL COMPLY WITH SMACNA CONSTRUCTION STANDARDS, LATEST EDITION. ALL RECTANGULAR DUCT SIZES ARE SHEET METAL SIZES, ALLOWANCES HAVE BEEN MADE FOR 1" THICK FIBERGLASS DUCT LINER. DUCT LINER SHALL BE 2 POUNDS PER CUBIC FOOT DENSITY. ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK SHALL BE LINED.
- ALL DUCTWORK SHALL BE INSTALLED ABOVE CEILING, UNLESS OTHERWISE NOTED ON PLANS. CONTRACTOR SHALL CHECK EXACT JOB CONDITIONS PRIOR TO FABRICATION OF ANY DUCTWORK. IF ANY CONFLICT ARISES, USE DUCT SIZE WITH EQUIVALENT INTERIOR FREE AREA. ANY DUCT CHANGES MUST BE APPROVED BY OWNER.
- ALL ROUND DUCTWORK SHALL BE SHEET METAL. EXTERNALLY INSULATE ALL ROUND DUCTWORK AND TOP OF CEILING DIFFUSERS WITH 2" THICK, 1 POUND DENSITY FIBERGLASS DUCT WRAP WITH VAPOR BARRIER JACKET, VAPOR SEAL ALL JOINTS. FLEXIBLE DUCT WILL NOT BE ACCEPTABLE ON THIS PROJECT.
- ALL CONTROL WIRING SHALL BE INSTALLED IN CONDUIT OUTDOORS OR WHERE EXPOSED INDOORS; 1/2" CONDUIT CONDUIT MAY BE USED, CONDUIT AND CONTROL WIRING SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR,
- INSTALL CONICAL OR BELL MOUTH FITTING AND MANUAL DAMPER IN MAIN DUCT AT RUNOUTS TO ALL CEILING DIFFUSERS AND SUPPLY REGISTERS. INSTALL SPLITTER DAMPER WITH LOCKING QUADRANT AT ALL DUCT TEES.
- INSTALL DEEP SEAL P-TRAP AT EACH COOLING COIL DRAIN. INSTALL OPEN VENT ON LEAVING SIDE AND EXTEND TO GRAVEL SUMP. ALL DRAIN PIPING SHALL BE TYPE "L" HARD COPPER; INSULATED PER MECHANICAL CODE.
- SEAL ALL JOINTS IN SUPPLY/RETURN DUCTWORK WITH "HARD-CAST" MASTIC AND HARDCAST DUCT TAPE TYPE 1402 "FOILGRIP".
- PROVIDE SEISMIC RESTRAINTS FOR ALL EQUIPMENT AND PIPING, ETC., AS REQUIRED BY SEISMIC CODES.



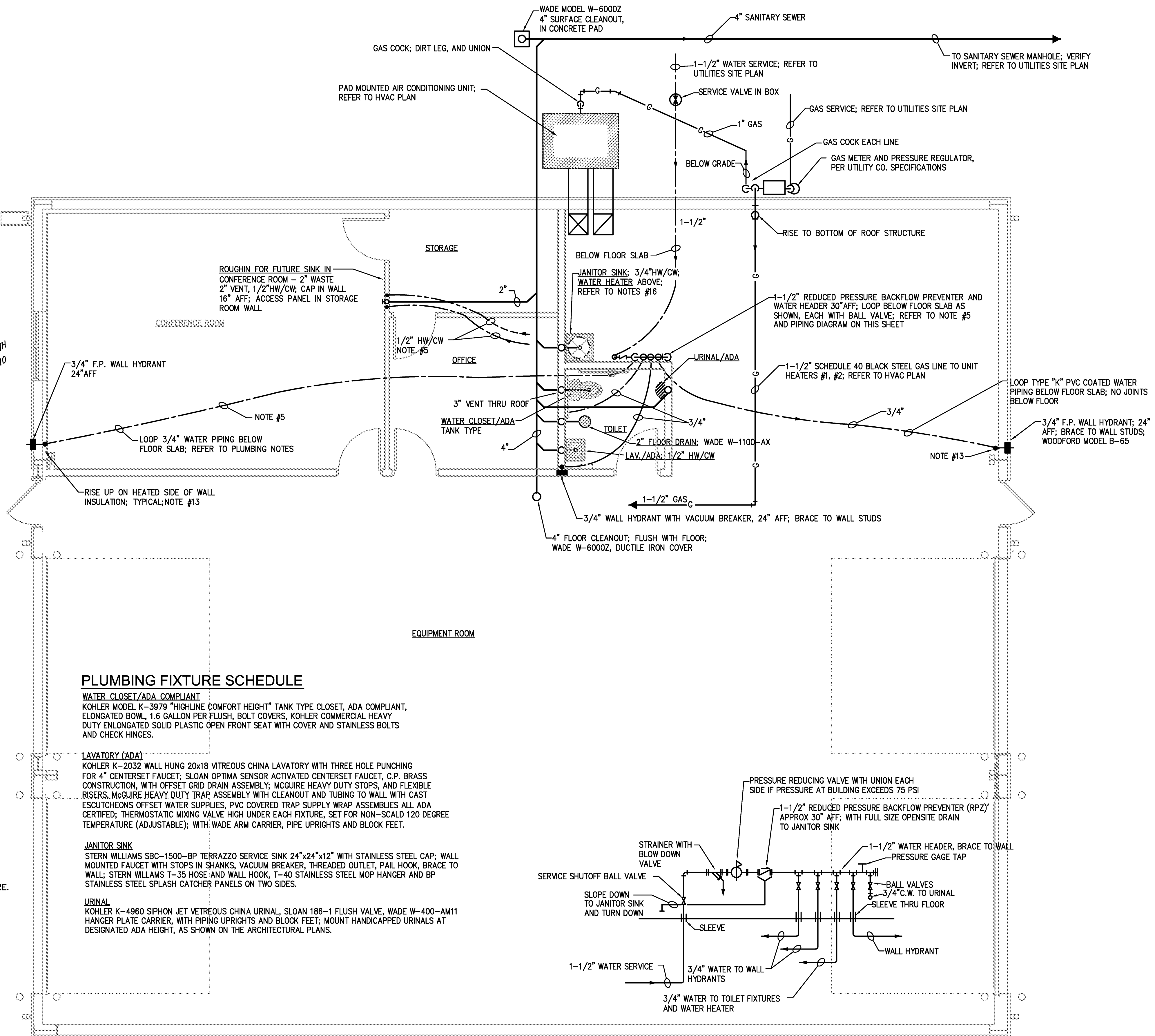


WASTE AND VENT RISER DIAGRAM

WASTE AND VENT PIPING MAY BE SCHEDULE 40 PVC PER APPLICABLE CODES.

GENERAL PLUMBING NOTES:

- ALL PLUMBING WORK (MATERIALS AND INSTALLATION) SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING AND GAS CODES, ARK. STATE MECHANICAL CODE, AMERICAN DISABILITIES ACT, ARKANSAS SEISMIC CODES; ARK. ENERGY CODE; AND ALL APPLICABLE LOCAL CODES AND ORDINANCES.
- PLUMBING CONTRACTOR SHALL VERIFY EXACT PIPING REQUIREMENTS OF ALL EQUIPMENT, PRIOR TO INSTALLATION OF ANY PIPING. REFER TO EQUIPMENT SHOP DRAWINGS
- CONTRACTOR SHALL ROUGH-IN FOR ALL EQUIPMENT FURNISHED BY OTHERS AND MAKE FINAL CONNECTIONS, ACCORDING TO APPROVED EQUIPMENT SHOP DRAWINGS. INSTALL VALVES AND UNIONS IN ALL WATER AND GAS LINES AT ALL EQUIPMENT CONNECTIONS.
- INSTALL FULL SIZE DIRT LEG, GAS COCK AND UNION, AT CONNECTIONS TO ALL GAS FIRED EQUIPMENT. ALL PIPING TO UNITS SHALL BE SCHEDULE 40 BLACK STEEL, FLEXIBLE PIPING AT UNITS MUST BE CODE APPROVED.
- INSTALL WATER LINES BELOW FLOOR SLAB, AS SHOWN ON FLOOR PLANS. PIPING SHALL BE PLASTIC COATED TYPE "K" SOFT COPPER, WITH NO JOINTS. INSULATE HOT WATER LINES WITH 3/4" FLEXIBLE FOAMED PLASTIC INSULATION WITH GLASS FIBER REINFORCED MASTIC. INSTALL SHUT OFF VALVES AT CONNECTIONS TO ALL EQUIPMENT.
- ALL EXPOSED GAS PIPING INDOORS AND OUTDOORS, AND AT EXTERIOR WALL PENETRATIONS SHALL BE PAINTED TO MATCH BUILDING. INSTALL STEEL SLEEVES AT ALL WALL PENETRATIONS AND ESCUTCHEONS EACH SIDE OF WALL. SEAL PENETRATIONS WATERTIGHT.
- ALL WALL AND FLOOR PENETRATIONS SHALL BE SLEEVED AND SEALED. ALL PENETRATIONS OF FIRE RATED WALLS OR CEILINGS OR FLOOR STRUCTURES SHALL BE FIRE SEALED TO MAINTAIN FIRE RATING OF STRUCTURE.
- EXISTING UTILITY INFORMATION HAS BEEN TAKEN FROM EXISTING DRAWINGS, AND WE CANNOT GUARANTEE THEIR ACCURACY. THE MECHANICAL CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BIDDING. ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BIDDING. REFER TO APPROVED CIVIL ENGINEER UTILITIES SITE PLAN.
- THE MECHANICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND INVERTS OF ALL UTILITIES PRIOR TO INSTALLATION OF NEW PIPING.
- INSTALL TRAP PRIMER VALVE FOR FLOOR DRAIN IN TOILET; INSTALL WADE W-2400 - 1/2" PRIMER VALVE WITH VACUUM BREAKER IN WALL WITH ACCESS DOOR AND EXTEND 1/2" COLD WATER TO DRAIN TRAP.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL UTILITY SERVICE REQUIREMENTS WITH LOCAL UTILITY COMPANY AND PAY ALL COSTS/FEEES ASSOCIATED WITH SERVICE CONNECTIONS AND UPGRADES.
- ALL GAS COCKS LOCATED OUTDOORS SHALL BE LOCKABLE TYPE.
- ALL WATER PIPING AND DRAIN PIPING IN OUTSIDE WALLS SHALL BE INSTALLED ON HEATED SIDE OF WALL INSULATION. FREEZEPROOF WALL HYDRANTS SHALL BE SIZED SO THAT SHUT-OFF IS ON HEATED SIDE OF WALL INSULATION.
- THIS CONTRACTOR SHALL THOROUGHLY ROD ALL SEWER LINES AND FLUSH ALL LINES CLEAN, AT COMPLETION OF CONSTRUCTION.
- IF CITY WATER PRESSURE EXCEEDS 75 PSI PRESSURE LEAVING METER, INSTALL LINE SIZE STRAINER AND PRESSURE REGULATOR IN SEPARATE BOX.
- WATER HEATER**
INSTALL WATER HEATER ON ANGLE IRON WALL SUPPORT BRACKET 7'-0" ABOVE JANITOR SINK. INSTALL DIELECTRIC UNION EACH CONNECTION; INSTALL BALL VALVE AT COLD WATER CONNECTION; INSTALL VACUUM BREAKER; INSTALL TWO GALLON THERMAL EXPANSION TANK WITH WALL SUPPORT; INSTALL T&P RELIEF VALVE WITH DISCHARGE TO JANITOR SINK. HEATER SHALL BE 20 GALLON STORAGE, TWO 4500 WATT HEATING ELEMENTS, NON-SIMULTANEOUS; 240 VOLT, SINGLE PHASE. EXTEND 3/4" HOT WATER TO JANITOR SINK, 1/2" HW TO LAV. AND SINK ROUGHIN.
- WATER PIPING**
BELOW GRADE - TYPE "K" SOFT COPPER, PVC COATED; ABOVE FLOOR - TYPE "L" HARD COPPER PIPE AND FITTINGS.
- PIPE INSULATION:**
INSULATE ALL HOT AND COLD WATER PIPING ABOVE FLOOR WITH 3/4" THICK FOAMED PLASTIC INSULATION; INSULATE HOT WATER PIPING BELOW FLOOR SLAB AS PER NOTE #5.



PLUMBING FIXTURE SCHEDULE

WATER CLOSET/ADA COMPLIANT

KOHLER MODEL K-3979 "HIGHLINE COMFORT HEIGHT" TANK TYPE CLOSET, ADA COMPLIANT, ELONGATED BOWL, 1.6 GALLON PER FLUSH, BOLT COVERS, KOHLER COMMERCIAL HEAVY DUTY ELONGATED SOLID PLASTIC OPEN FRONT SEAT WITH COVER AND STAINLESS BOLTS AND CHECK HINGES.

LAVATORY (ADA)

KOHLER K-2032 WALL HUNG 20x18 VITREOUS CHINA LAVATORY WITH THREE HOLE PUNCHING FOR 4" CENTERSET FAUCET; SLOAN OPTIMA SENSOR ACTIVATED CENTERSET FAUCET, C.P. BRASS CONSTRUCTION, WITH OFFSET GRID DRAIN ASSEMBLY; MCGUIRE HEAVY DUTY STOPS, AND FLEXIBLE RISERS, MCGUIRE HEAVY DUTY TRAP ASSEMBLY WITH CLEANOUT AND TUBING TO WALL WITH CAST ESCUTCHEONS OFFSET WATER SUPPLIES, PVC COVERED TRAP SUPPLY WRAP ASSEMBLIES ALL ADA CERTIFIED; THERMOSTATIC MIXING VALVE HIGH UNDER EACH FIXTURE, SET FOR NON-SCALD 120 DEGREE TEMPERATURE (ADJUSTABLE); WITH WADE ARM CARRIER, PIPE UPRIGHTS AND BLOCK FEET.

JANITOR SINK

STERN WILLIAMS SBC-1500-BP TERRAZZO SERVICE SINK 24"x24"x12" WITH STAINLESS STEEL CAP; WALL MOUNTED FAUCET WITH STOPS IN SHANKS, VACUUM BREAKER, THREADED OUTLET, PAIL HOOK, BRACE TO WALL; STERN WILLIAMS T-35 HOSE AND WALL HOOK, T-40 STAINLESS STEEL MOP HANGER AND BP STAINLESS STEEL SPLASH CATCHER PANELS ON TWO SIDES.

URINAL

KOHLER K-4960 SIPHON JET VITREOUS CHINA URINAL, SLOAN 186-1 FLUSH VALVE, WADE W-400-AM11 HANGER PLATE CARRIER, WITH PIPING UPRIGHTS AND BLOCK FEET; MOUNT HANDICAPPED URINALS AT DESIGNATED ADA HEIGHT, AS SHOWN ON THE ARCHITECTURAL PLANS.

WATER SERVICE ENTRANCE DIAGRAM

PLUMBING PLAN

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

LUCAS, MERRIOTT
& ASSOCIATES
2225 WEST 7th STREET
LITTLE ROCK, ARKANSAS
PHONE: 501-374-3522
FAX NO: 501-375-7505



7-5-16

FIRE STATION

MAIN STREET & HAMILTON DRIVE
GRIFFITHVILLE, ARKANSAS

:STAMP

BID SET

:SHEET TITLE

:REVISIONS

NO.	DESCRIPTION	DATE

JULY 7, 2016 :ISSUE DATE

14-117 :PROJECT NUMBER

:SHEET NUMBER

P1.1

ABBREVIATION LEGEND	
AR	ANCHOR RODS
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
ARCH	ARCHITECTURAL
B PL	BASE PLATE
BF	BOTTOM OF FOOTING
BFT	BELOW FINISHED FLOOR
BLDG	BUILDING
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BP	BOTTOM OF PIER
BRG	BEARING
BTWN	BETWEEN
C	CHANNEL SHAPE (i.e. C8x11.5)
C	KOLD FORMED C SHAPE
C.G.	CENTER OF GRAVITY
CJ	(KEYED) CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
DBL	DOUBLE
DEG	DEGREES
DIA	DIAMETER
DIM	DIMENSION
DLH	DEEP LONGSPAN JOIST (i.e. 60DLH12)
DSE	COLD-FORMED DOUBLE SLOPED EAVE STRUT
DTL	DETAIL
DWLS	DOWELS
EA	EACH
EB	EXTENDED BOTTOM CHORD
EL	EXPANSION JOINT
ELEV	ELEVATION
EMBED	EMBEDMENT LENGTH
EOS	EDGE OF SLAB
ERECT	ERECTION
EWEF	EACH WAY, EACH FACE
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FF	FINISHED FLOOR
FV	FIELD VERIFY
FAS	FROM ADJACENT SPAN
FFE	FINISHED FLOOR ELEVATION
FIN FLR EL	FINISHED FLOOR ELEVATION
FS	FAR SIDE
FTG	FOOTING
Fy	STEEL YIELD STRENGTH
G	JOIST GIRDER (i.e. 24GBN7K)
GA	GAUGE
GB	GRADE BEAM
HORIZ	HORIZONTAL
HP	H-PILE SHAPE (i.e. HP8x36)
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION (STEEL)
I/S	INSIDE
INFO	INFORMATION
INT	INTERIOR
JBE	JOIST BEARING ELEVATION
JB	JOIST
k	K-JOIST (i.e. 12k1 S.J.)
K	KIPS (KILO-POUNDS)
k/ft	KIPS PER FOOT
kcs	CONSTANT SHEAR JOIST (i.e. 12kcs2 S.J.)
KD	KILN-DRIED
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE (i.e. L3x3x1/4)
LH	LONGSPAN JOIST (i.e. 32LH05)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LW	LONG WAY
LWB	LAM. WOOD BEAM (i.e. LWB3x11)
M.B.	METAL BUILDING
MC	MOMENT CONNECTION
MATL	MATERIAL
MAX	MAXIMUM
MC	MISC. CHANNEL SHAPE (i.e. MC12x10.6)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC.	MISCELLANEOUS
MPH	MILES PER HOUR
MTL	METAL
N	JOIST SPACES ON GIRDER
NO.	NUMBER
N.S.	NON-SHRINK
NS	NEAR SIDE
NTS	NOT TO SCALE
o.c.	ON CENTER
O/S	OUTSIDE
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP.	OPPOSITE
OSB	ORIENTED STRAND BOARD
P##	DRILLED PIER (##-DIA IN INCHES)
PF###	PAD FOOTING (###-SIZE IN FEET)
P/T	POST-TENSIONED
PL	PLATE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
R	RADIUS
RE	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RTU	ROOF TOP UNIT
S	STANDARD STEEL SHAPE (i.e. S10x35)
SCHED.	SCHEDULE
SECT	SECTION
SH	COLD-FORMED HAT SHAPE
SIM	SIMILAR
S.J.	STEEL JOIST (i.e. 12k1 S.J.)
SJ	(SJM) CONTROL JOINT
SQ	SQUARE
SSE	COLD-FORMED SINGLE SLOPED EAVE STRUT
STIFF	STIFFENER
SW	SHORT WAY
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TEMP	TEMPERATURE
TF	TOP OF FOOTING
TCC	TOP OF COLUMN
TCC	TOP OF CONCRETE
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TP	TOP OF PIER
TYP	TYPICAL
UE	COLD-FORMED UNIVERSAL EAVE STRUT
UH	COLD-FORMED UNIVERSAL HAT SHAPE
UNO	UNLESS NOTED OTHERWISE
VER	VERIFY
VERT	VERTICAL
vs	VS JOIST (i.e. 2.5vs1)
W	WIDE FLANGE SHAPE (i.e. W8x10)
WP	WORK POINT
w/o	WITH
WITHOUT	WITHOUT
WT	T SHAPE (i.e. WT8x13)
WWR	WELDED WIRE REINFORCING (i.e. WIRE MESH)
Z	COLD FORMED Z SHAPE

STRUCTURAL NOTES

GENERAL NOTES

- THE CONTRACTOR SHALL THOROUGHLY REVIEW ALL CONTRACT DOCUMENTS AND INFORM THE ARCHITECT OF CONFLICTS OR DISCREPANCIES PRIOR TO BIDDING, FABRICATION, AND CONSTRUCTION.
- IN CASES OF DISCREPANCIES IN DIMENSIONS AND ELEVATIONS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS, CONTRACTOR SHALL COORDINATE WITH THE ARCHITECT PRIOR TO FABRICATION AND CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE THE FIELD VERIFICATION OF ALL EXISTING SITE CONDITIONS SUCH AS EXISTING ROOF ELEVATIONS, EXISTING FOOTING ELEVATIONS, EXISTING UTILITIES, ETC., WHETHER NOTED OR NOT IN THE CONTRACT DOCUMENTS AND SHALL NOTIFY THE ARCHITECT OF ANY CONFLICTS, DISCREPANCIES OR UNKNOWN CONDITIONS PRIOR TO FABRICATION AND CONSTRUCTION.
- REPRODUCTION OF CONTRACT DRAWINGS, IN ANY FORM, WILL NOT BE ACCEPTED AS SHOP DRAWINGS.
- REVIEW OF SUBMITTALS AND/OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER-OF-RECORD DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO REVIEW AND CHECK SHOP DRAWINGS BEFORE SUBMITTAL FOR REVIEW. THE CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTRACTOR ALSO SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, AND PROCEDURES OF CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE TEMPORARY GUYS AND BRACING AS REQUIRED DURING CONSTRUCTION. STRUCTURE IS NOT STABLE UNTIL ALL STRUCTURAL MEMBERS, CONNECTIONS, AND DECKING IS IN PLACE.
- ACI, AISC, AITC AND AWS SPECIFICATIONS SHALL GOVERN ALL PHASES OF FABRICATION AND CONSTRUCTION.

CONCRETE NOTES (03.00.00)

CONCRETE REINFORCEMENT (03.20.00)

- CONCRETE REINFORCEMENT SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- ALL REINFORCING STEEL SHALL BE ASTM A615, GRADE 60, UNLESS NOTED OTHERWISE.
- PROVIDE THE FOLLOWING PROTECTIVE COVERING FOR ALL REINFORCING BARS UNLESS DETAILED OR NOTED OTHERWISE:

SLAB-ON-GRADE BARS (BOTTOM)	3" CLEAR
BELOW GRADE (CAST AGAINST EARTH)	3" CLEAR
BELOW GRADE (FORMED EDGE)	2" CLEAR
- DO NOT CUT TIES OR CONTINUOUS BARS TO PROVIDE CLEARANCE FOR EMBEDDED ITEMS OR OTHER OBSTRUCTIONS. INDIVIDUAL BARS AND TIES MAY BE MOVED VERTICALLY UP TO 1.5" AS REQUIRED TO PROVIDE CLEARANCE FOR EMBEDS, HOOKS, ETC. DO NOT HEAT REINFORCING TO BEND IT.
- IF DOWELS OR VERTICAL REINFORCING ARE CUT OR SEVERELY BENT, CONTRACTOR MAY BE REQUIRED TO REMOVE THE CONCRETE BACK TO THE PREVIOUS POUR JOINT AND REPLACE THE DAMAGED BARS AND CONCRETE AT THE CONTRACTOR'S EXPENSE.
- REINFORCEMENT SHALL BE SPLICED ONLY AS SHOWN OR NOTED IN THE STRUCTURAL CONTRACT DOCUMENTS. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER-OF-RECORD PRIOR TO FABRICATION.
- REINFORCING BARS MARKED AS CONTINUOUS SHALL BE SPLICED WITH CLASS "B" TENSION LAP SPLICES ONLY.
- ALL TENSION LAP SPLICES SHALL BE CLASS "B" UNLESS NOTED OTHERWISE.
- WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A185. LAP REINFORCEMENT 8 INCHES ON SIDES AND ENDS. MAINTAIN WIRE 1 TO 2 INCHES BELOW TOP SURFACE OF SLAB-ON-GRADE, UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT MUST BE PLACED ON CHAIRS OR BOLSTERS AS REQUIRED TO MAINTAIN POSITION IN THE SLAB.
- ONCE SHOP DRAWINGS HAVE BEEN REVIEWED, DO NOT ADD REINFORCING OR INFORMATION TO PREVIOUSLY SUBMITTED SHEETS FOR SUBSEQUENT SUBMITTALS UNLESS SHOP DRAWINGS ARE BEING RESUBMITTED AFTER BEING RETURNED "NOT REVIEWED".
- WHERE ANCHOR RODS ARE CAST INTO CONCRETE, PROVIDE SUPPLEMENTAL REINFORCING EACH WAY, TIED NEAR THE TOP AND BOTTOM OF ALL ANCHOR RODS TO THE ADJACENT REBAR TO SECURE RODS DURING CONCRETE PLACEMENT. (MINIMUM SIZE #4)

CAST-IN-PLACE CONCRETE (03.30.00)

- CONCRETE SUPPLIER SHALL SUBMIT CONCRETE MIX DESIGN DATA TO THE ARCHITECT FOR REVIEW PRIOR TO CONSTRUCTION.
- CONCRETE SHALL HAVE AT LEAST THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:

A. FOOTINGS	3000 PSI
B. SLABS-ON-GRADE, WALLS, PILASTERS & PEDESTALS	4000 PSI
- SEE CONCRETE MIX DESIGN TABLE
- PROPORTIONS OF CONCRETE MIX DESIGNS SHALL BE DETERMINED BY THE PROCEDURES ESTABLISHED IN SECTION 5.3 OF ACI 318-11.
- MIX DESIGN MAY INCLUDE (TYPE C) FLYASH AS A REPLACEMENT FOR PORTLAND CEMENT UP TO A MAXIMUM OF 20% OF THE TOTAL CEMENTIOUS MATERIAL. DO NOT USE A FLYASH CONTAINING CONCRETE MIX WHEN THE TEMPERATURE DURING PLACEMENT OR CURING IS PROJECTED TO FALL BELOW 60 DEGREES FAHRENHEIT.
- MIX DESIGN MAY INCLUDE WATER REDUCING ADMIXTURES CONFORMING TO ASTM C494, TYPE A, TO PROVIDE WORKABILITY AND SPECIFIED SLUMP WITHOUT EXCEEDING SPECIFIED WATER/CEMENT RATIOS. WATER SHALL NOT BE ADDED ON SITE WITHOUT PRIOR APPROVAL. ANY APPROVED WATER AMOUNTS ADDED ON SITE MUST BE RECORDED & REPORTED BY THE TESTING AGENCY.
- ALL CONCRETE EXPOSED TO WEATHER SHALL CONTAIN 5.5% AIR ENTRAINMENT (±1.5%). DO NOT EXCEED 3% AIR CONTENT IN CONCRETE RECEIVING A STEEL TROWEL FINISH.
- FLOWABLE FILL SHALL MEET THE FOLLOWING REQUIREMENTS:

A. MINIMUM 28 DAY COMPRESSIVE STRENGTH	1000 PSI
B. MINIMUM PORTLAND CEMENT CONTENT	188 LBS PER CUBIC YARD
C. MINIMUM FLYASH CONTENT	376 LBS PER CUBIC YARD
D. MAXIMUM PERMISSIBLE W/C RATIO	0.95

METALS NOTES (05.00.00)

STRUCTURAL STEEL (05.12.00)

- STRUCTURAL STEEL SUPPLIER SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- ALL STRUCTURAL STEEL SHAPES SHALL BE AS FOLLOWS:

A. ALL WIDE FLANGE STRUCTURAL STEEL SHAPES SHALL BE ASTM A992.
B. SQUARE OR RECTANGULAR HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 46 KSI.
C. ROUND HOLLOW STRUCTURAL SECTIONS SHALL BE ASTM A500, GRADE B, Fy = 42 KSI.
D. ROUND STEEL PIPES SHALL BE ASTM A53, GRADE B, Fy = 35 KSI.
E. ALL OTHER STRUCTURAL STEEL (CHANNELS, ANGLES, PLATES, ETC.) SHALL BE ASTM A36.
- ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36.
- BOLTS THRU WOOD BLOCKING SHALL BE ASTM A307. ALL BOLTS IN CONTACT WITH TREATED WOOD SHALL BE STAINLESS STEEL (TYPE 316), OR HOT DIPPED GALVANIZED WITH A MINIMUM COATING THICKNESS OF 0.2 OUNCES PER SQUARE FOOT (ASTM A153). USE STAINLESS BOLTS WITH STAINLESS STEEL CONNECTORS AND GALVANIZED BOLTS WITH GALVANIZED CONNECTORS IF ONLY ONE IS SPECIFIED.
- POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE STANDARD ASTM A36 THREADED RODS (OR APPROVED EQUAL) WITH A MINIMUM STEEL YIELD STRENGTH OF Fy=36ksi OR ASTM F593 STAINLESS STEEL ANCHORS WITH A MINIMUM STEEL YIELD STRENGTH OF fy=45ksi, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. ADHESIVE SHALL BE HILTI "HIT-RE 500-SP" SYSTEM (REF: ICC-ES ESR-2322), SIMPSON STRONG-TIE "SET-XP" SYSTEM (REF: ICC-ES ESR-2508), (OR APPROVED EQUAL). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
- POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE SHALL BE HILTI "HIT-Z (OR HIT-Z-R) RODS" WITH HILTI "HIT-HY200" ADHESIVE (REF: ICC-ES ESR-3187). (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
- POST-INSTALLED EXPANSION ANCHORS IN CONCRETE SHALL BE HILTI "KWIK BOLT TZ" (REF: ICC-ES ESR-1917), SIMPSON STRONG-TIE "STRONG BOLT Z" (REF: ICC-ES ESR-3037), (OR APPROVED EQUAL) CARBON STEEL ANCHORS UNLESS SHOWN OTHERWISE ON THE DRAWINGS. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)
- POST-INSTALLED SCREW ANCHORS SHALL BE HILTI "KWIK HUS EZ" (REF: ICC-ES ESR-3027), SIMPSON STRONG-TIE "TITEN HD" (REF: ICC-ES ESR-2713), (OR APPROVED EQUAL), UNLESS NOTED OTHERWISE. (SEE PRODUCT MANUALS FOR HOLE CLEANING, INSTALLATION AND INSTALLER TRAINING REQUIREMENTS.)

WOOD NOTES (08.00.00)

LUMBER (08.10.00)

- ALL WOOD MEMBERS THAT ARE IN CONTACT WITH CONCRETE OR MASONRY SHALL BE PRESSURE TREATED WITH WATER BORNE TREATMENT TO A NET RETENTION OF 0.3 POUNDS PER CUBIC FOOT. (SEE STRUCTURAL STEEL FRAMING NOTE #5 FOR BOLTS IN CONTACT WITH PRESERVATIVE TREATED WOOD).

PRE-ENGINEERED METAL BUILDING SYSTEMS (13.34.19)

- METAL BUILDING MANUFACTURER SHALL PROVIDE CALCULATIONS AND SHOP DRAWINGS SEALED AND SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.
- METAL BUILDING SHOP DRAWINGS WILL NOT BE REVIEWED IF THE LAYOUT DOES NOT FOLLOW THE LAYOUT PROPOSED IN THE CONTRACT DRAWINGS AND IF ANY DEVIATIONS FROM THE PROPOSED LAYOUT ARE NOT CLEARLY MARKED ON THE SHOP DRAWINGS OR APPROVED IN WRITING PRIOR TO SUBMITTAL.
- METAL BUILDING FRAMING LAYOUT AND MEMBERS SHOWN ARE SUGGESTED ONLY. MANUFACTURER IS RESPONSIBLE FOR COORDINATING REQUIREMENTS WITH OWNER AND PROVIDING A COMPLETE STRUCTURAL FRAMING SYSTEM DESIGNED BY THE MANUFACTURER. METAL BUILDING MANUFACTURER SHALL COORDINATE ALL DIMENSIONS, ELEVATIONS, BRACING, AND SIZES AND SHAPES OF MEMBERS WITH OWNER PRIOR TO FABRICATION AND CONSTRUCTION. ALL MEMBERS, CONNECTIONS AND DECKING NOT SPECIFICALLY SIZED ON DRAWINGS SHALL BE DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER.
- METAL BUILDING VERTICAL BRACING SHALL CONSIST OF PORTAL FRAMES OR ROD BRACES AT THE LOCATIONS SHOWN ON THE PLANS. THE METAL BUILDING MANUFACTURER SHALL COORDINATE THE LOCATION OF ALL BRACES TO MINIMIZE INTERFERENCE WITH ARCHITECTURAL FEATURES. ROD OR CABLE BRACES MAY NOT BE SUBSTITUTED WHERE PORTAL FRAMES ARE SHOWN. WHERE X-BRACES ARE USED, THE METAL BUILDING MANUFACTURER SHALL CLEARLY IDENTIFY TO THE ARCHITECT ALL INTERFERENCES WITH ARCHITECTURAL FEATURES. WHERE ARCHITECTURAL FEATURES (COLUMN SURROUNDINGS, CEILINGS, FURR DOWNS, ETC) ARE PROVIDED TO COVER OR SURROUND THE METAL BUILDING COMPONENTS (COLUMNS, FRAMES, ETC.), THE METAL BUILDING COMPONENTS SHALL BE SIZED TO STAY WITHIN THE LIMITS OF THE ARCHITECTURAL FEATURES UNLESS THE ARCHITECT IS NOTIFIED IN WRITING PRIOR TO SUBMISSION OF THE APPROVAL DRAWINGS AND APPROVAL IS GIVEN FOR AN EXCEPTION.
- MAXIMUM PURLIN LIVE LOAD DEFLECTION FOR PURLINS SUPPORTING CEILINGS SHALL NOT EXCEED SPAN/360 OR 1" WHICHEVER IS LESS. MAXIMUM PURLIN LIVE LOAD DEFLECTION FOR PURLINS NOT SUPPORTING CEILINGS SHALL NOT EXCEED SPAN/180.
- FRAME LIVE LOAD DEFLECTION SHALL NOT EXCEED SPAN/360 OR 1-1/2" FOR FRAMES SUPPORTING CEILINGS.
- MAXIMUM GIRT LATERAL DEFLECTION FROM WIND OR SEISMIC LOADS SHALL NOT EXCEED SPAN/240.
- MAXIMUM BUILDING SIDESWAY (DRIFT) FROM WIND OR GRAVITY LOADS SHALL NOT EXCEED WALL HEIGHT/240. SEISMIC DRIFT SHALL BE WITHIN THE LIMITS PRESCRIBED IN ASCE 7, TABLE 12.2-1 WITH ACTUAL DRIFT DETERMINED PER SECTION 12.8.6.
- THE GENERAL CONTRACTOR AND METAL BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR OVERALL BUILDING COORDINATION. ALL COORDINATION OF THE INTERFACE AND COMPATIBILITY BETWEEN THE METAL BUILDING AND THE ARCHITECTURAL FEATURES SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE METAL BUILDING MANUFACTURER.
- DESIGN OF THE METAL BUILDING USING DEAD, LIVE, SEISMIC, WIND AND SNOW LOADS IN THE CODE REQUIRED COMBINATIONS SHALL BE PERFORMED BY THE METAL BUILDING MANUFACTURER.

EARTHWORK & FOUNDATION NOTES (31.00.00)

EXCAVATION & FILL (31.22.00 & 31.23.23)

- ALL UNDERCUTTING, SITE PREPARATION, FILL SELECTION, BACKFILLING AND COMPACTION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND SOILS ENGINEER'S RECOMMENDATIONS.
- PRIOR TO PLACING FILL AT THE SITE, STRIP ALL TOPSOIL THEN UNDERCUT AND REMOVE ALL SOFT SOILS, ORGANIC PLASTIC SOILS FROM WITHIN TEN FEET OF THE BUILDING PERIMETER AND PAVING AREAS. AFTER STRIPPING ALL TOP SOIL AND ORGANIC CONTAINING SOILS AND PRIOR TO PLACING FILL AT THE SITE, PROOF ROLL THE ALL PAVING AREAS AND WITHIN 10' OF THE BUILDING PERIMETER WITH A LOADED DUMP TRUCK TO LOCATE SOFT AREAS.
- SELECT FILL BENEATH THE BUILDING SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" LOOSE THICKNESS AND COMPACTED TO AT LEAST 95% OF MAXIMUM MODIFIED PROCTOR DRY DENSITY (ASTM D1557). THE IN-PLACE DENSITY AND MOISTURE CONTENT SHALL BE ESTABLISHED AND APPROVED FOR EACH LIFT PRIOR TO PLACEMENT OF SUBSEQUENT LIFTS.

SPREAD FOOTINGS (31.24.50)

- BOTTOM OF FOOTING ELEVATIONS (BF) SHOWN ON THE PLANS ARE FOR ESTIMATING PURPOSES ONLY AND ARE NOT NECESSARILY TO BE USED FOR CONSTRUCTION. THE SOILS ENGINEER OR HIS REPRESENTATIVE SHALL BE ENGAGED TO INSPECT ALL FOOTING EXCAVATIONS TO VERIFY THAT THE REQUIRED ALLOWABLE BEARING CAPACITY IS ATTAINABLE. BOTTOM OF FOOTING ELEVATIONS SHALL BE ADJUSTED PER THE ON-SITE RECOMMENDATIONS OF THE SOILS ENGINEER OR HIS REPRESENTATIVE.
- ALL SPREAD FOOTING EXCAVATIONS SHALL BE FOUNDED IN PROPERLY COMPACTED SELECT FILL OR IN THE NATURAL SOILS WITH AN ALLOWABLE NET BEARING CAPACITY OF AT LEAST 2000 PSF.
- CONTRACTOR SHALL RETAIN THE SERVICES OF A GEOTECHNICAL ENGINEER REGISTERED IN THE STATE OF ARKANSAS TO PROVIDE GEOTECHNICAL ENGINEERING SERVICES AS REQUIRED. GEOTECHNICAL ENGINEER SHALL VERIFY ALLOWABLE NET BEARING CAPACITY OF 2000 PSF IS ATTAINABLE WITH TOTAL SETTLEMENT AND DIFFERENTIAL SETTLEMENT LESS THAN ONE HALF INCH.
- MAINTAIN FINISHED GRADE (AND/OR BOTTOM OF FOOTING ELEVATIONS) TO PROVIDE AT LEAST 1'-6" COVER ABOVE THE BOTTOM OF ALL EXTERIOR FOOTINGS FOR FROST PROTECTION.

DESIGN LOADS:

DEAD LOADS:	WEIGHT OF THE STRUCTURE	
ROOF LIVE LOAD:	20 PSF	
GROUND SNOW LOAD	Pg:	10 PSF
WIND SPEED FOR RISK CATEGORY IV & EXP C	Vult: Vasd:	120 MPH 93 MPH
BUILDING RISK CATEGORY	I/II (ESSENTIAL FACILITY)	
WIND EXPOSURE CATEGORY	C	
INTERNAL PRESSURE COEFFICIENT	Gcpi:	+/-0.18
COMP. & CLADDING WIND PRESSURE	Pmet130:	SEE ASCE 7-10, TABLE 30.7-2
MAPPED SPECTRAL RESPONSE ACCELERATIONS	Ss: St:	0.617 0.228
SITE CLASS	D	
SPECTRAL RESPONSE COEFFICIENTS	Sds: Sdt:	0.537 0.296
SEISMIC DESIGN CATEGORY	D	
BASIC SEISMIC-FORCE-RESISTING SYSTEM (PER ASCE 7-10, TABLE 12.2-1)	MOMENT RESISTING FRAME SYSTEM ORDINARY STEEL MOMENT FRAMES	
DESIGN BASE SHEAR	V:	0.23W
SEISMIC RESPONSE COEFFICIENT	Cs:	0.25
RESPONSE MODIFICATION FACTOR	R:	5.50
ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE METHOD (ASCE 7-10, TABLE 12.8-1 & SECT. 12.8)	
SEISMIC ZONE PER A.C.A. 12-80-101 ET. SEQ. ZONE:	2	
CODES:	2012 ARKANSAS FIRE PREVENTION CODE A.C.A. 12-80-101 ET. SEQ. (ARK LAW)	

THE FOUNDATIONS HAVE BEEN DESIGNED TO RESIST THE LOADS AND FORCES STATED ABOVE IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ARKANSAS FIRE PREVENTION CODE AND A.C.A. 12-80-101 ET. SEQ.

SEE METAL BUILDING MANUFACTURER FOR SEISMIC DESIGN OF METAL BUILDING AND COMPONENTS.

PRE-ENGINEERED METAL BUILDING DESIGN LOADS:

ROOF DEAD LOAD:	ACTUAL WEIGHT OF THE STRUCTURE	
COLLATERAL LOAD:	HANGING EQUIPMENT, LIGHTS, CEILINGS, ETC. (7 PSF MINIMUM COLLATERAL DEAD LOAD. INCLUDE ACTUAL WEIGHT OF SUSPENDED EQUIPMENT.)	
ROOF LIVE LOAD:	20 PSF (PURLINS & FRAMES). LIVE LOAD REDUCTIONS WILL NOT BE ALLOWED.	
SNOW LOAD:	(SEE DESIGN LOADS ABOVE)	
WIND LOAD:	(SEE DESIGN LOADS ABOVE)	
SEISMIC LOAD:	(SEE DESIGN LOADS ABOVE)	
CODES:	2012 ARKANSAS FIRE PREVENTION CODE NBMA METAL BUILDING SYSTEMS MANUAL (LATEST EDITION) A.C.A. 12-80-101 ET. SEQ. (ARKANSAS STATE LAW)	

SPECIAL INSPECTION NOTES

- SPECIAL INSPECTIONS SHALL BE REQUIRED IN ACCORDANCE WITH CHAPTER 17 OF THE BUILDING CODE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL INSPECTIONS WITH THE INSPECTION AGENTS.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO PERFORM THE REQUIRED INSPECTION TO THE SATISFACTION OF THE BUILDING OFFICIAL.
- THE SPECIAL INSPECTOR SHALL KEEP RECORDS OF INSPECTIONS. INSPECTION REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THE DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
- A FINAL REPORT OF INSPECTIONS DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES SHALL BE SUBMITTED TO THE OWNER, BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AT THE COMPLETION OF THE STRUCTURAL PORTION OF THE WORK.

SOIL TESTING AND INSPECTIONS

- A QUALIFIED TESTING LABORATORY SHALL TEST ALL CONTROLLED STRUCTURAL FILL. A MINIMUM OF TWO SOIL COMPACTION TESTS SHALL BE MADE FOR EACH LIFT.
- AFTER FOOTING EXCAVATIONS HAVE BEEN MADE TO DESIGN ELEVATIONS, THE INDEPENDENT TESTING AGENCY SHALL INSPECT AND TEST THE BEARING SOIL TO VERIFY THAT IT MEETS THE REQUIRED DESIGN CAPACITY.

CONCRETE CONSTRUCTION INSPECTIONS

- INSPECT REINFORCING STEEL PRIOR TO PLACING CONCRETE. CHECK REINFORCING SIZE, SPACING AND LOCATION.
- VERIFY SIZE, TYPE, EMBEDMENT DEPTH, PROJECTION AND QUANTITY OF ANCHOR BOLTS.
- CYLINDERS SHALL BE MADE FOR DETERMINING THE CONCRETE STRENGTH FROM EACH CLASS OF CONCRETE TO BE PLACED. SAMPLES SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQUARE FEET OF SURFACE AREA FOR SLABS OR WALLS. (EACH SAMPLE SHALL CONSIST OF 4 CYLINDERS MADE, HANDLED AND TESTED PER THE SPECIFICATIONS.)
- EACH TIME THE CYLINDERS ARE MADE THE SLUMP, AIR CONTENT AND TEMPERATURE OF THE CONCRETE SHALL ALSO BE CHECKED.
- THE CONTRACTOR'S METHOD OF MAINTAINING THE MINIMUM CURING TEMPERATURE AND CURING TECHNIQUE SHALL BE REVIEWED.
- PROVIDE CONTINUOUS INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS IN CONCRETE ELEMENTS TO VERIFY THE INSTALLATION IS IN ACCORDANCE WITH STRUCTURAL DRAWINGS, EVALUATION SERVICE REPORT, AND MANUFACTURER'S INSTRUCTIONS. VERIFY LOCATION, EDGE DISTANCES, SPACING, DRILL BIT SIZE, HOLE DEPTH, HOLE CLEANING PROCESSES, ANCHOR MATERIAL, EMBEDMENT, INSTALLATION PROCEDURES, INCLUDING CHECKING EXPIRATION DATE, PROPER MIXING OF ADHESIVE, AND INSTALLER TRAINING REQUIREMENTS.

STEEL CONSTRUCTION INSPECTION

- STEEL FABRICATOR SHALL BE REGISTERED AND APPROVED IN ACCORDANCE WITH THE ARKANSAS FIRE PREVENTION CODE SECTION 1704.2.5.2 AND SHALL SUBMIT CERTIFICATE OF COMPLETION OR THE FABRICATOR SHALL MAKE PROVISIONS FOR SHOP INSPECTION OF FABRICATION PROCEDURES & QUALITY CONTROL IN ACCORDANCE WITH SECTION 1704.2.5.1 BY AN INDEPENDENT INSPECTION AGENCY APPROVED BY THE OWNER, WITH RELATED COSTS INCLUDED IN THE BID.
- PERIODICALLY VERIFY THAT THE PROPER MATERIALS FOR HIGH-STRENGTH BOLTS, STRUCTURAL STEEL AND WELD FILLER MATERIALS ARE BEING USED.
- PERIODICALLY CHECK TIGHTENING OF HIGH-STRENGTH BOLTS USING THE TURN OF THE NUT METHOD WITH MATCH MARKING TECHNIQUES OR DIRECT TENSION INDICATOR BOLTS.
- WELDING PROCEDURES, MATERIALS AND WELDER QUALIFICATIONS FOR ALL FIELD WELDING SHALL BE VERIFIED PRIOR TO THE START OF WORK.
- PERIODIC INSPECTION OF WELDING IN PROGRESS AND VISUAL INSPECTION OF ALL FIELD WELDS SHALL BE MADE FOR ALL SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16" IN SIZE AND FOR STEEL DECK WELDING.

CAST-IN-PLACE CONCRETE MIX DESIGN TABLE
MIX DESIGN SHALL INCLUDE AT LEAST THE FOLLOWING AMOUNTS OF PORTLAND CEMENT MEETING ASTM C150 OR D595 PER CUBIC YARD OF CONCRETE

28 DAY MIN. COMPRESSIVE STRENGTH	NON-AIR ENTRAINED		AIR ENTRAINED		DESIGN SLUMP w/ WRA (+/- 1.5%)
	MIN. CEMENT CONTENT (LBS/YARD ³)	MAXIMUM PERMISSIBLE W/C RATIO	MIN. CEMENT CONTENT (LBS/YARD ³)	MAXIMUM PERMISSIBLE W/C RATIO	
3000	470	0.53			4"
4000	564	0.44	611	0.40	6"



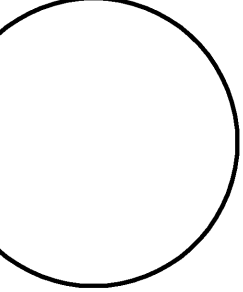
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FIRE STATION

MAIN STREET & HAMILTON DRIVE
GRIFFITHVILLE, ARKANSAS

:STAMP



BID SET

:SHEET TITLE
GENERAL NOTES

:REVISIONS

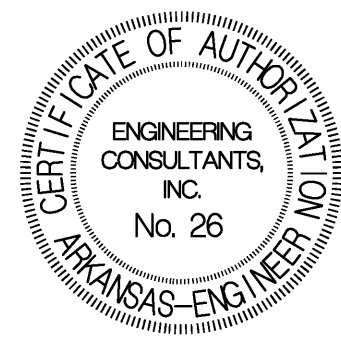
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JULY 7, 2016 :ISSUE DATE

14-117 :PROJECT NUMBER

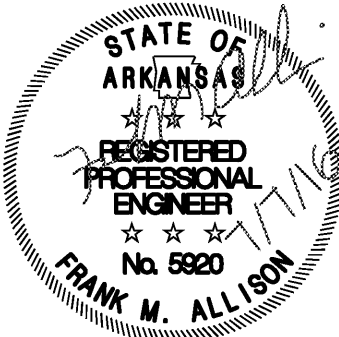
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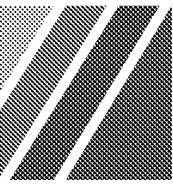
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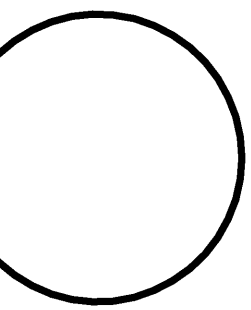
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FIRE STATION

MAIN STREET & HAMILTON DRIVE
GRIFFITHVILLE, ARKANSAS

:STAMP



BID SET

:SHEET TITLE

FOUNDATION PLAN

:REVISIONS

NO.	DESCRIPTION	DATE

:ISSUE DATE

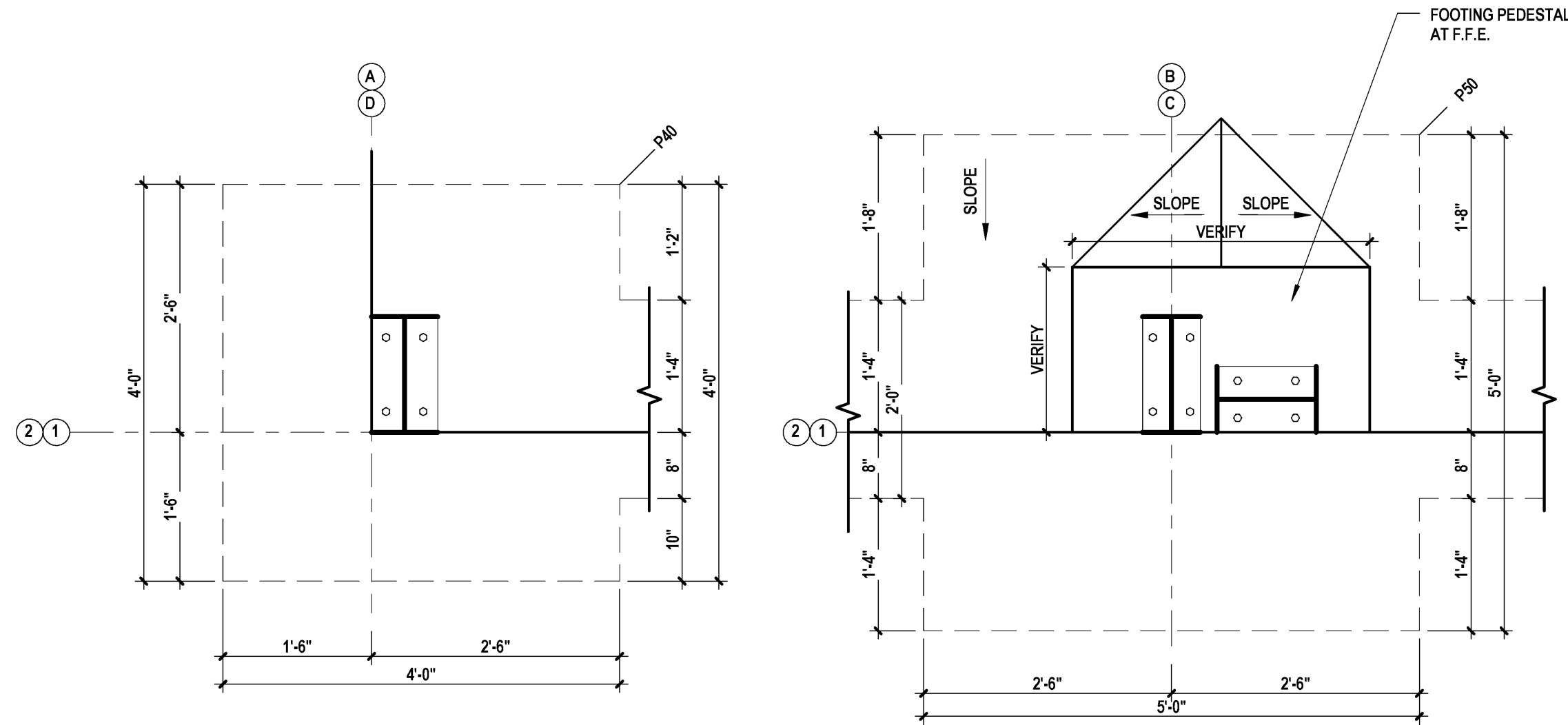
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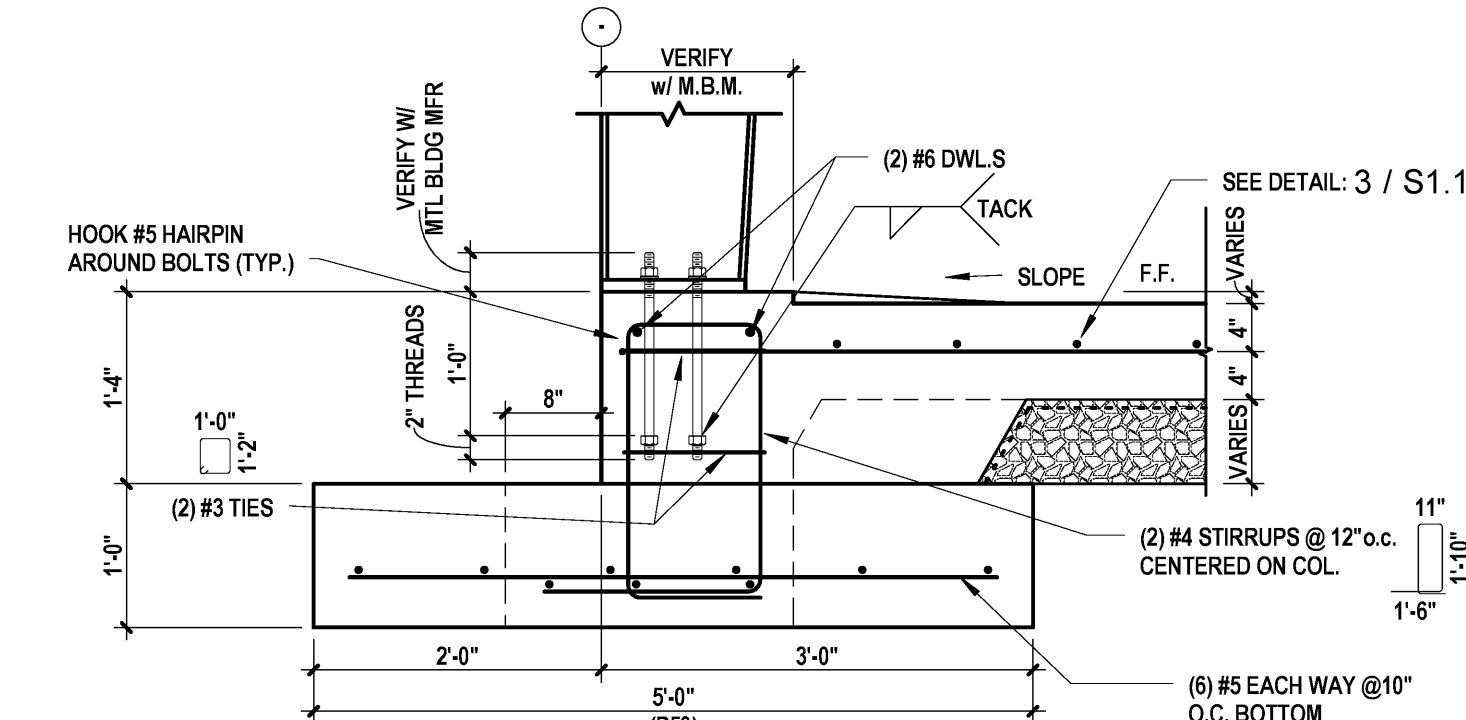
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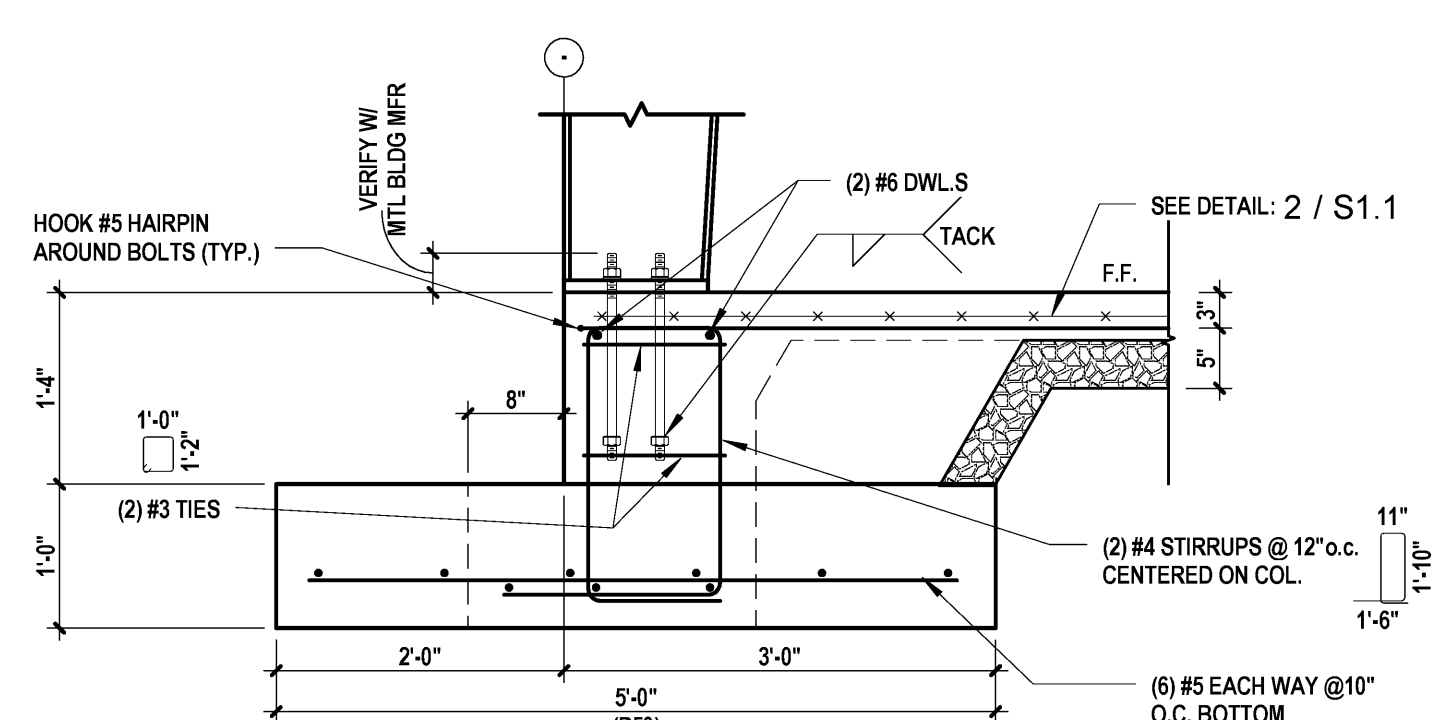


12 STRUCTURAL - FOOTING PLAN DETAIL P40
3/4" = 1'-0"

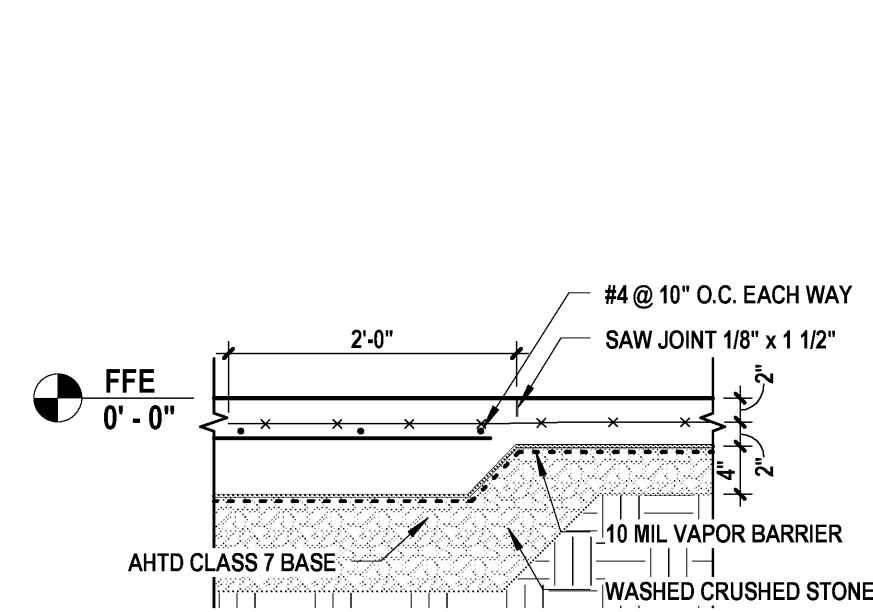
11 STRUCTURAL - FOOTING PLAN DETAIL P50
3/4" = 1'-0"



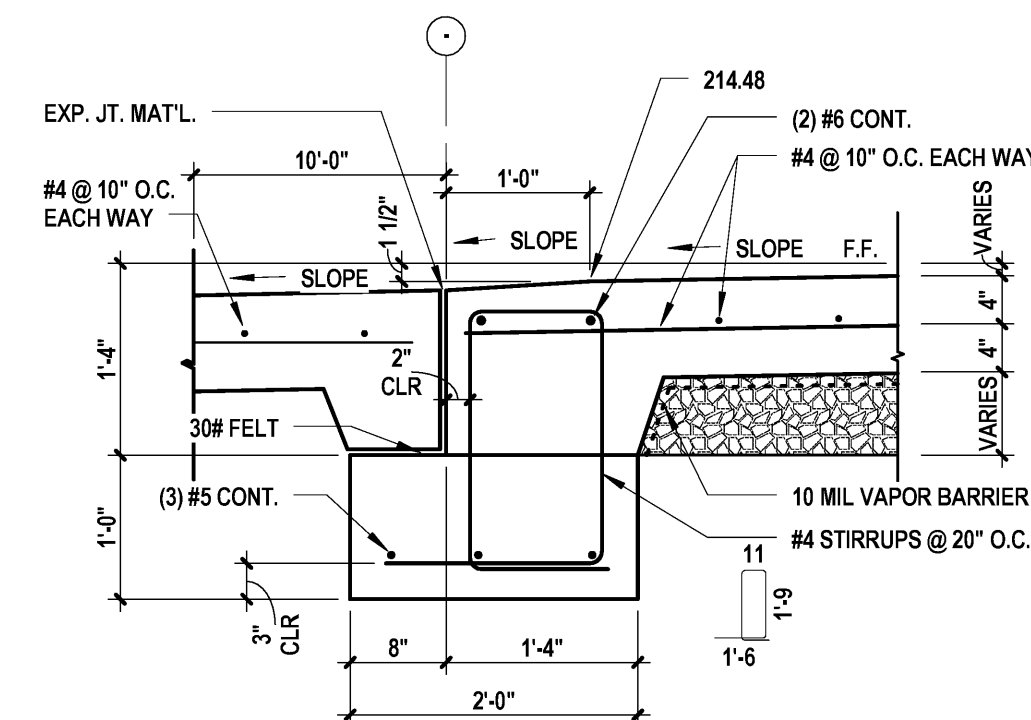
10 FOUNDATION DETAIL @ STEEL BENT AT EQUIPMENT AREA
3/4" = 1'-0"



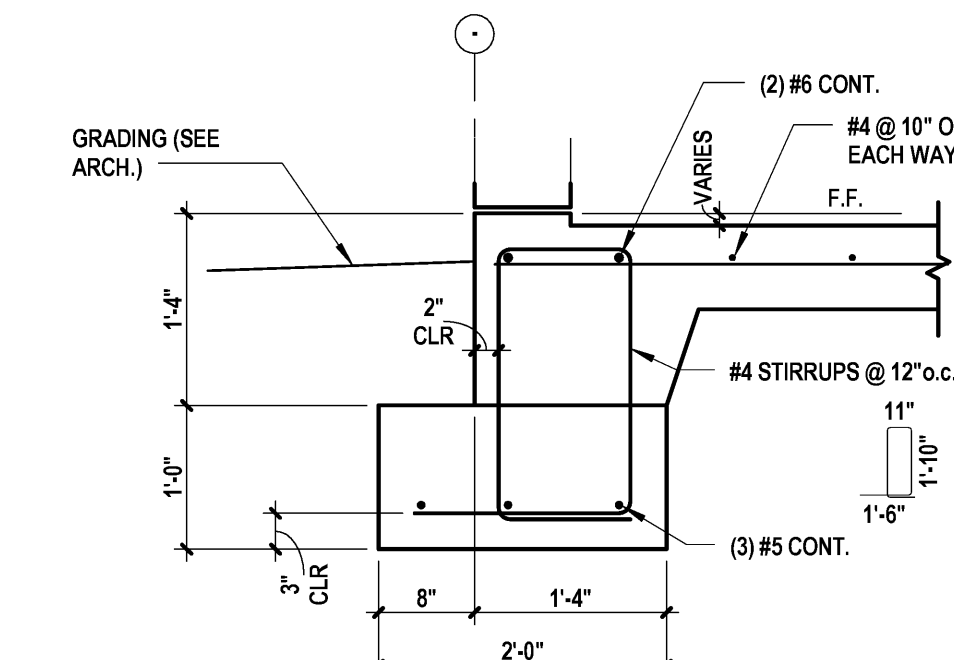
9 FOUNDATION DETAIL @ STEEL BENT
3/4" = 1'-0"



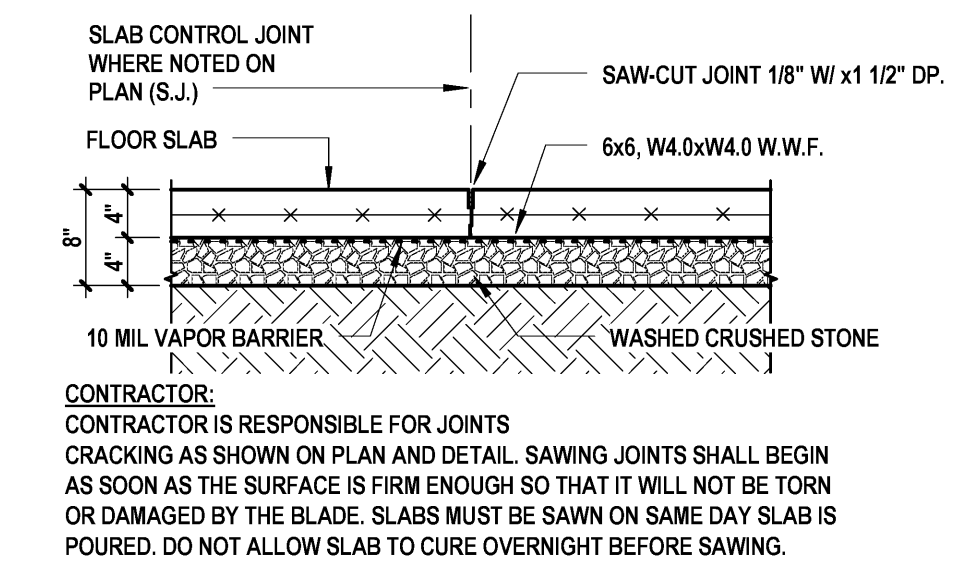
8 SLAB TRANSITION DETAILS
3/4" = 1'-0"



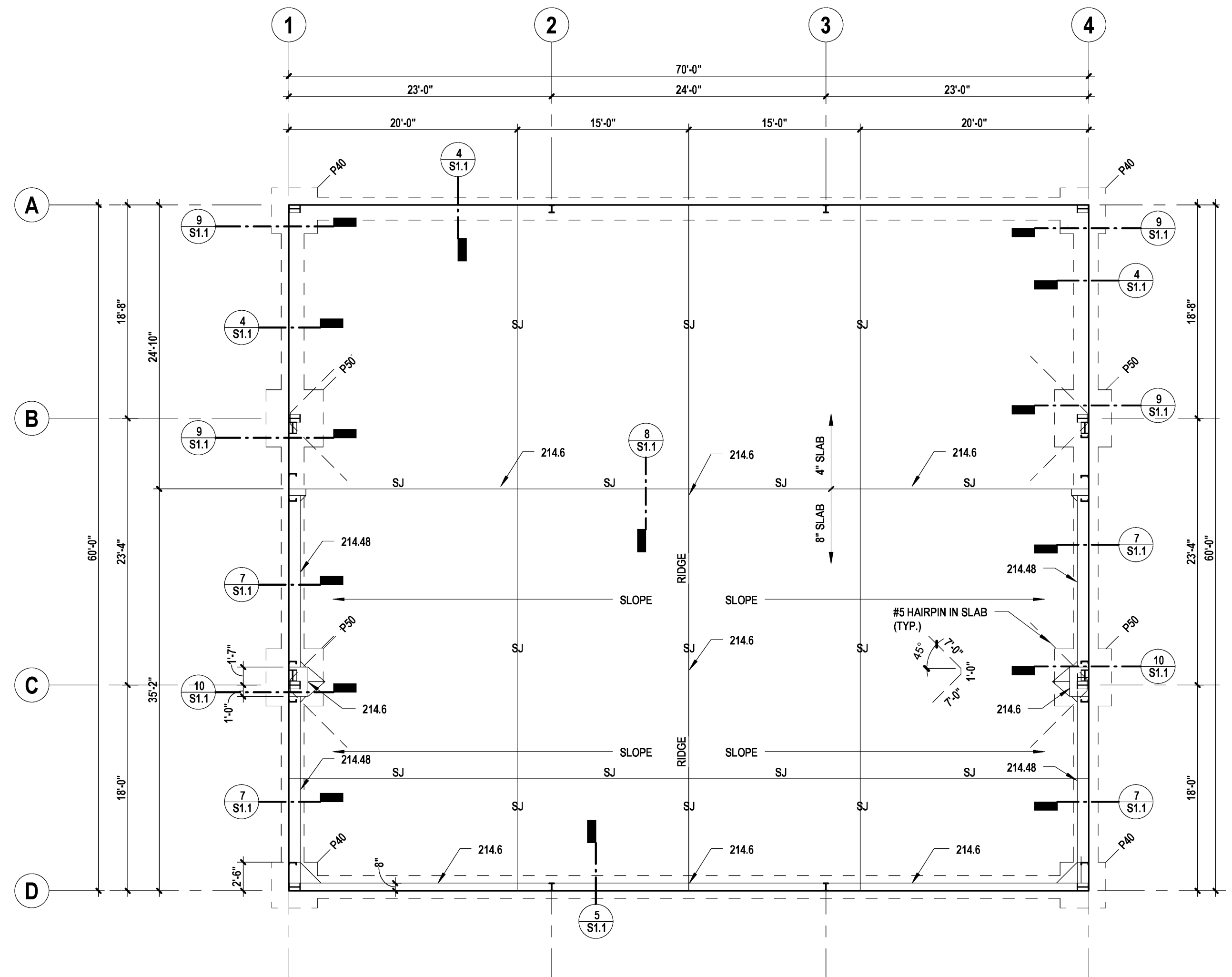
7 FOUNDATION SECTION @ PERIMETER AT DOOR
3/4" = 1'-0"



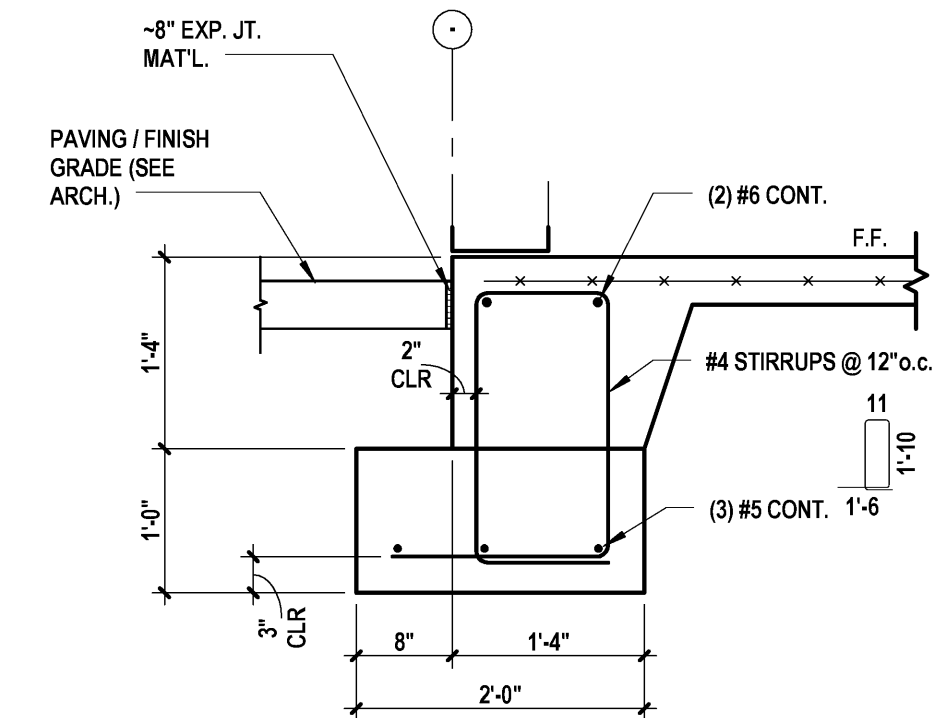
5 FOUNDATION SECTION @ PERIMETER GRADING
3/4" = 1'-0"



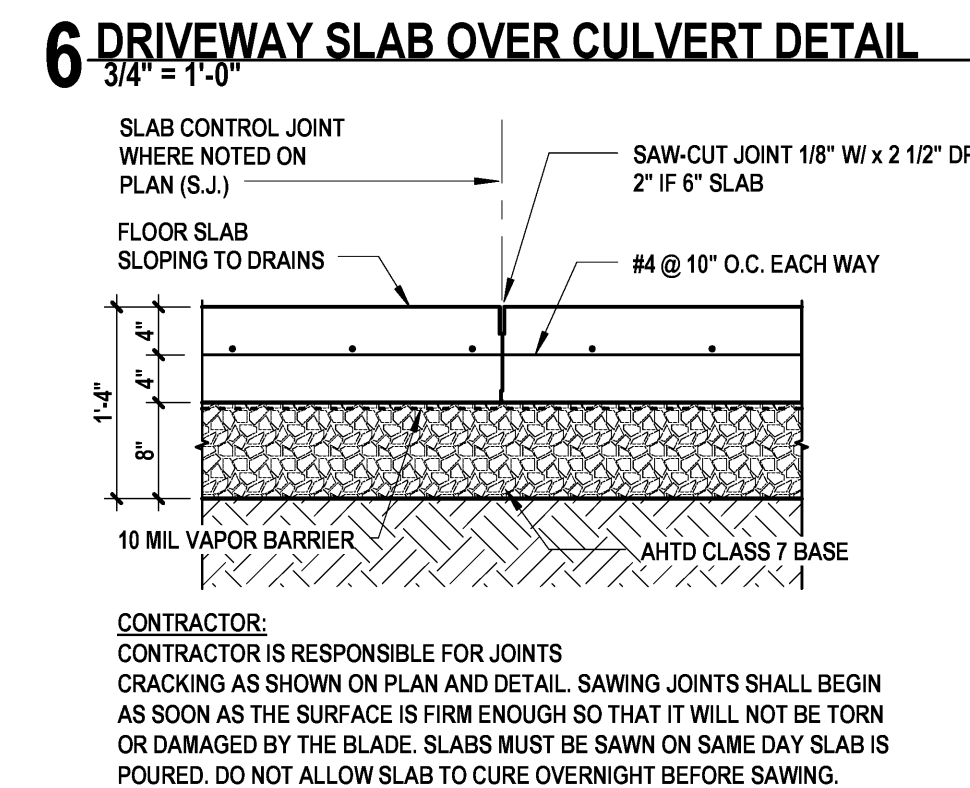
2 TYPICAL 4" SLAB DETAIL
3/4" = 1'-0"



1 FOUNDATION PLAN
1/8" = 1'-0"

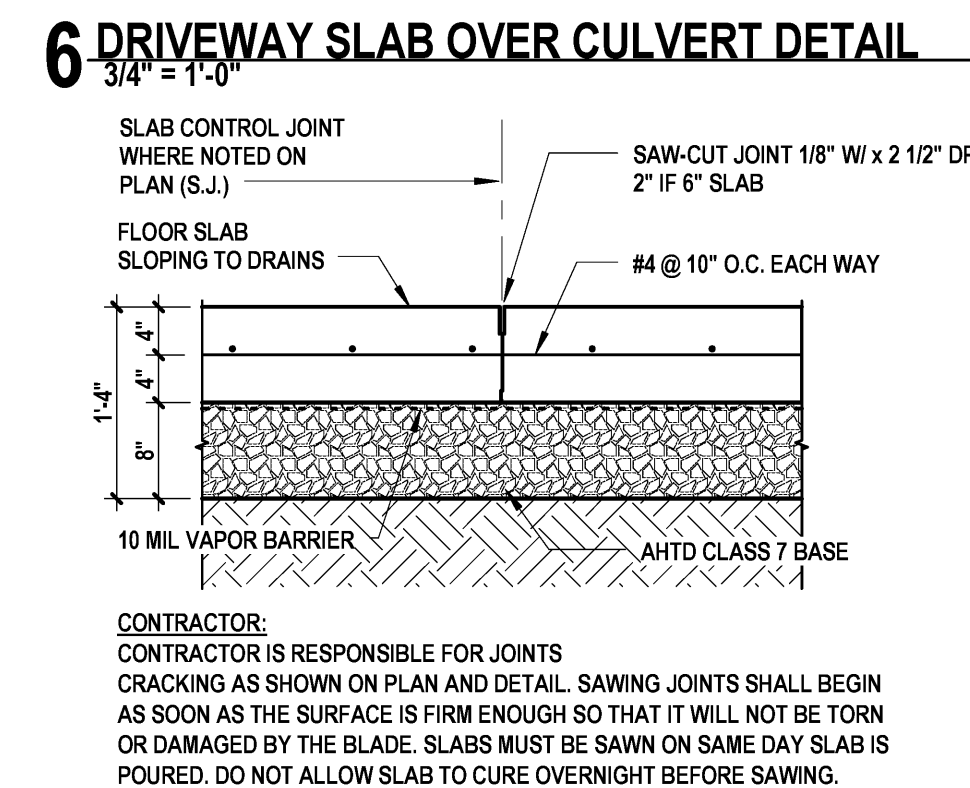


4 FOUNDATION SECTION @ PERIMETER PAVING
3/4" = 1'-0"

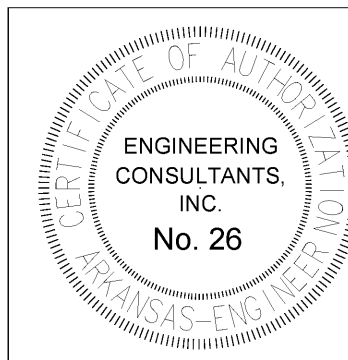


3 TYPICAL 8" SLAB DETAIL
3/4" = 1'-0"

NOT USED



6 DRIVEWAY SLAB OVER CULVERT DETAIL
3/4" = 1'-0"



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