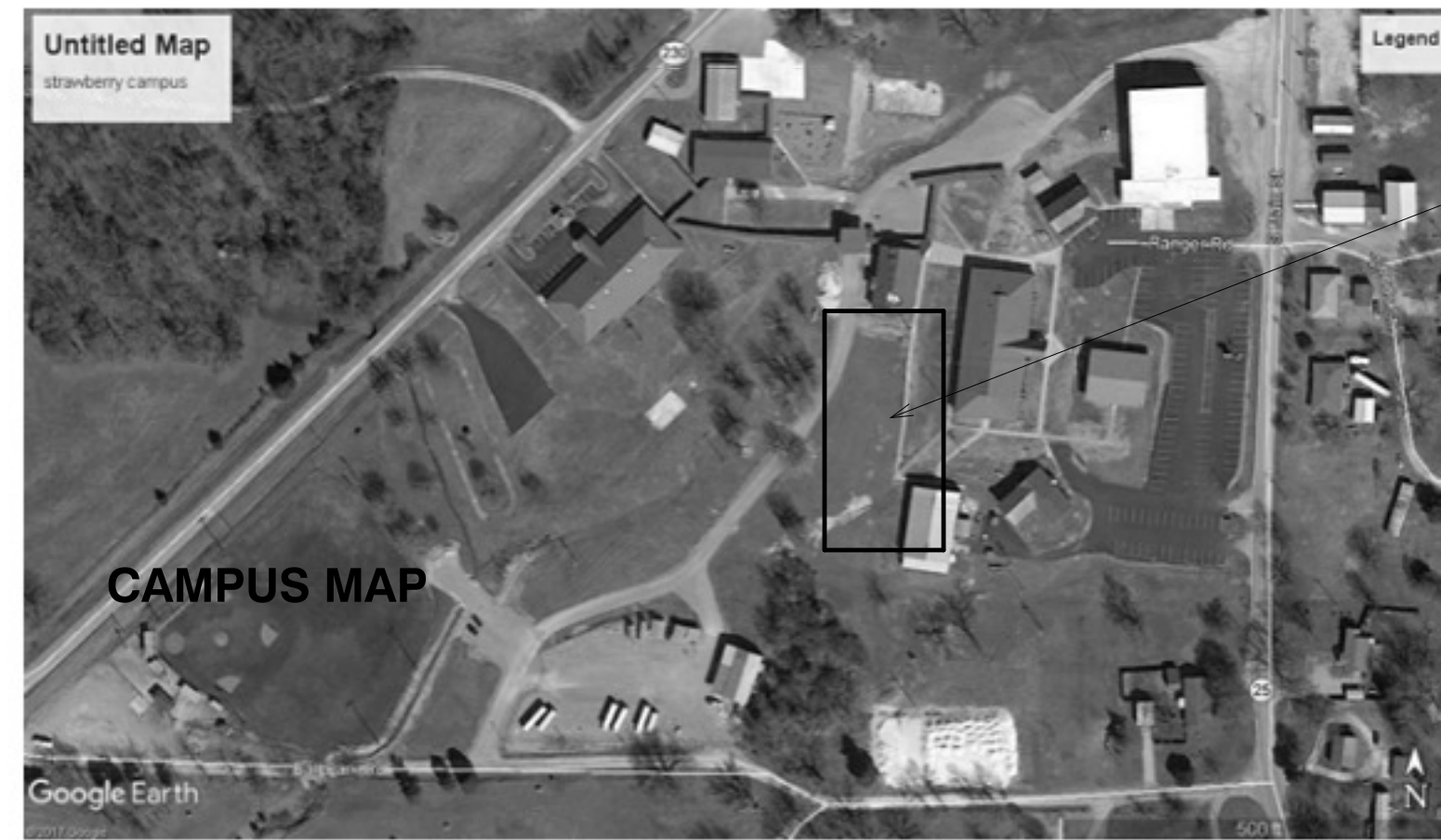


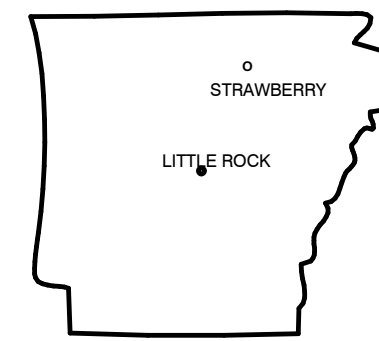
2 3D- TITLE SHEET



NEW BUILDING SITE



APPROXIMATE PROJECT AREA



STATE MAP

## A NEW CAFETERIA AND MULTI-PURPOSE ROOM HILLCREST SCHOOL DISTRICT

### HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

PROJECT NUMBER- 1920-3809-001

ISSUED 12-27-2020

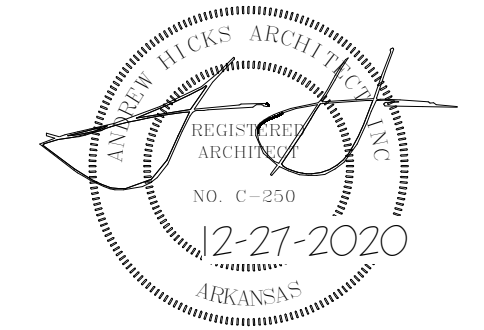
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I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE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

12-21-2020  
ANDREW F. HICKS, ARCHITECT  
ARKANSAS REGISTRATION NO. 1479



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M403	KITCHEN HOOD DETAILS
M404	KITCHEN HOOD DETAILS
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E3.1	ENLARGED KITCHEN POWER AND SIGNAL PLAN
E4.1	ELECTRICAL DETAILS RISERS AND SCHEDULES

## CODE DATA

A NEW HIGH SCHOOL CAFETERIA AND MULTI-PURPOSE BUILDING  
LOCATED IN STRAWBERRY, AR CAMPUS OF HILLCREST SCHOOL DISTRICT  
DISTRICT OFFICE, 146 S MAIN ST, STRAWBERRY, AR 72469

DESIGN DATA  
BUILDING CODES  
INTERNATIONAL BUILDING CODE (IBC) 2012  
ARKANSAS FIRE PREVENTION CODE (AFPC) 2012 EDITION

GENERAL CODES  
SEISMIC USE GROUP 2 2012 IBC  
SEISMIC DESIGN CATEGORY "C" AFPC REVISIONS

LAWRENCE COUNTY - BUILDING LOCATION  
LAWRENCE COUNTY - SCHOOL DISTRICT MAIN OFFICE

HANDICAPPED GUIDELINES AND CODES  
AMERICAN DISABILITIES ACT (ADA) 2010 EDITION  
ARKANSAS ARCHITECTURAL BARRIERS ACT ACT 122-1967  
ARKANSAS STATE BUILDING AUTHORITY SECTION 3-600  
1979 HANDICAPPED ACCESSIBILITY STANDARDS

BUILDING CRITERIA / OCCUPANCY CLASSIFICATION

GROUP "E" EDUCATIONAL	7,683 SQUARE FEET TOTAL
DINING TOTAL SF	2,144 SQUARE FEET
STORAGE/MECH/JANITOR TOTAL SF	517 SQUARE FEET
MULTI-PURPOSE EDUCATIONAL ROOM	1,518 SQUARE FEET
TOILETS TOTAL SF	359 SQUARE FEET
KITCHEN	2,655 SQUARE FEET
FOYERS, WALLS ETC	BALANCE

### ALLOWABLE OCCUPANCY

1. OCCUPANCY LOAD (NORMAL)  
GROUP A ASSEMBLY  
DINING 1/15 SF NET 3 PERSONS  
STORAGE & MECHANICAL 1/200 144 PERSONS  
SAFE ROOM 1/15 NORMAL OCCUPANCY 100 PERSONS  
KITCHEN 1/200 GROSS 13 PERSONS  
TOTAL NORMAL OCCUPANCY 260 PERSONS

### CONSTRUCTION TYPE CLASSIFICATION

TYPE 2-B CONSTRUCTION IBC TABLE 601  
ALLOWABLE BUILDING HEIGHT - 55' IBC TABLE 503  
ALLOWABLE SQUARE FOOTAGE - 14,500 SF IBC TABLE 503  
ACTUAL BUILDING AREA FROM EXTERIOR WALL FACE 7,683 SF

2. BUILDING HEIGHT  
ACTUAL - 21'-6" (FROM FLOOR LEVEL)  
ALLOWED - 55'-0"

3. NUMBER OF STORIES  
ACTUAL (1) ONE  
ALLOWED (2) TWO

4. HORIZONTAL SEPARATION - OPEN SPACE DISTANCE TO PROPERTY LINE OR ADJACENT BUILDING  
NORTH - 200' MINIMUM  
WEST - OVER 200'  
SOUTH - 34' TO UNOCCUPIED GREENHOUSE  
EAST - 55'-0" APPROXIMATE

5. ALLOWABLE AREA IF FIRE SPRINKLED  
GROUP E - ALLOWED = 14,500 PER FLOOR

AREA MOD FRONTAGE INCREASE PER IBC SECTION 506.1  
1 = [F/P - 0.25] W/30 OR [430' / 378' - 0.25] 30/30 = 88%  
GROUP E ALLOWED WITH MOD = 27,260 PER FLOOR

6. ALLOWED AREA IF NOT FIRE SPRINKLED = 12,00 SF BETWEEN IBC APPROVED FIRE WALLS

7. ACTUAL BUILDING AREA  
7,683 SF

MEANS OF EGRESS	*CODE REQUIREMENT	PROVIDED
NUMBER OF EXITS	2 MIN.	3 FROM MAIN CORRIDOR
TRAVEL DISTANCE 200 FEET MAXIMUM	65 FEET	
DEAD END CORRIDOR 20 FEET MAXIMUM	DOES NOT EXCEED	
CORRIDOR WIDTH 72 INCH MAXIMUM	DOES NOT EXCEED	
STAIR WIDTH 44 INCH WIDE MINIMUM	NO STAIRS	

FIRE PROTECTION BUILDING IS SMALLER THAN 12,000 SF IN FLOOR AREA AND PORTABLE FIRE EXTINGUISHERS

### BUILDING DESCRIPTION

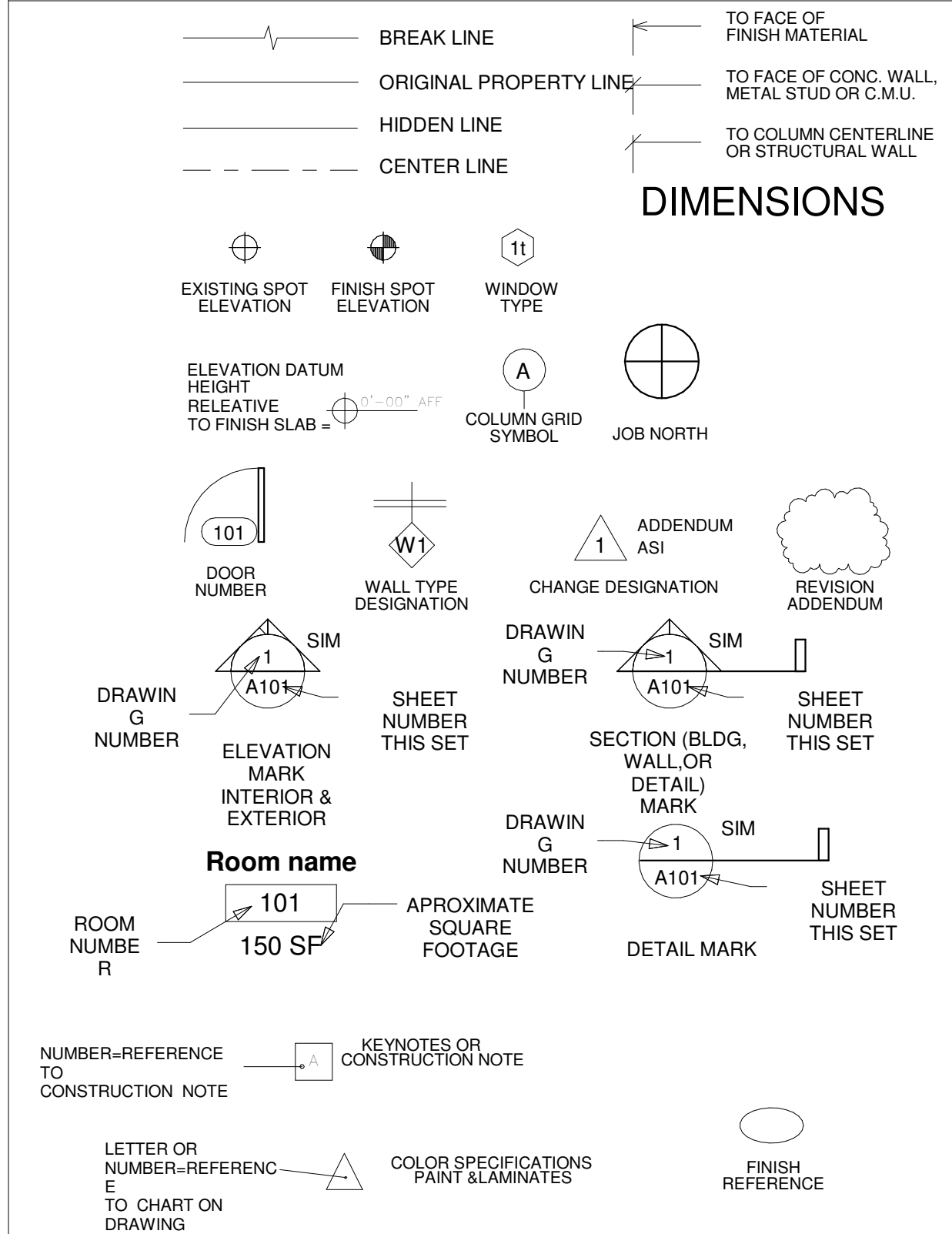
- A 1 STORY METAL RIGID FRAME ROOF STRUCTURE WITH NON-COMBUSTIBLE MASONRY & METAL STUD WALLS
- THE BUILDING IS NOT FIRE PROTECTED
- THE BUILDING SHALL NOT BE FIRE SPRINKLED
- THE BUILDING IS TO BE USED AS A CAFETERIA/ SAFE ROOM BUILDING
- BUILDING TO BE CONSTRUCTED BY A GENERAL CONTRACTOR

## ABBREVIATIONS

A/C	AIR CONDITIONING	JST	JOIST
ADDL	ADDITIONAL	JT	JOINT
ADJ	ADJACENT	K.E.S.	KITCHEN EQUIPMENT SUPPLIER
AFF	ABOVE FINISH FLOOR	KW	KILOWATT
ASF	ABOVE SUBFLOOR	LAV	LAVATORY
ATS	ABOVE TOP OF SLAB	LN	LINEAR
ALT	ALTERNATE	LP	LOWPOINT
ALUM	ALUMINUM	LAM	LAMINATED
AMP	AMPERE	L	LUMBER
APPROX	APPROXIMATE	MAX	MAXIMUM
A.W.S.	AMERICAN WELDING SOCIETY	M	THOUSAND
ARCH	ARCHITECT	MACH	MACHINE
BD	BOARD	MC	MECHANICAL CONTRACTOR
BLDG	BUILDING	MECH	MECHANICAL
BLK	BLOCK	MFR	MANUFACTURER
BM	BEAM	MN	MINUTE
BOTT	BOTTOM	MISC	MISCELLANEOUS
BRG	BEARING	MO	MASONRY OPENING
BTM	BOTTOM	MTD	MOUNTED
BTUH	BTU PER HOUR	MTL	METAL
CEM	CEMENT	N	NORTH
C/C	CENTER TO CENTER	NORM	NORMALLY
CER	CERAMIC	NIC	NOT IN CONTRACT
CT	CERAMIC TILE	NO	NUMBER
CF	COLD FILTERED WATER CONSTRUCTION	NOM	NORMAL
CJ	JOINT	NSFS	NEAR SIDE AND FAR SIDE
CLG	CELLING	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
C/A	CLEAR ANODIZED	OD	OUTSIDE DIAMETER
CLSD	CLOSED	OPN	OPEN
CCTV	CLOSE CIRCUIT TELEVISION CAMERA	OPNG	OPENING
CAMTV	TELEVISION CAMERA	OPP	OPPOSITE
CNTR	CENTER	ORD	OVERFLOW ROOF DRAIN
CMU	CONCRETE MASONRY UNIT	OW	OWNER
CG	CORNER GUARD	P	PIECE
CORR	CORRIDOR	PCC	PATTERNED COLORED CONCRETE
CO	CLEANOUT	PLB CNT	PLUMBING CONTRACTOR
COL	COLUMN	PH	PHASE
CONC	CONCRETE	P.LAM	PLASTIC LAMINATE
CONSTR	CONSTRUCTION	PLMB	PLUMBING
CONTR	CONTRACTOR	PLYWD	PLYWOOD
CONT	CONTINUOUS	PNL	PANEL
CW	COLD WATER	PNT	PAINT
DET	DETAIL	PREFAB	PREFABRICATED
DIA	DIAMETER	PRCJ	PROJECT
DM	DIMENSION	PR TRT	PRESSURE TREATED
DN	DOWN	PT	POINT
DS	DOWNSPOUT	PVC	POLYVINYL CHLORIDE
DW	DRYWALL	QT	QUARRY TILE
DWG	DRAWING	R	RADIUS
EA	EACH	RDR	RISER
EW	EACH WAY	RD	ROOF DRAIN
EC	ELECTRIC CONTRACTOR	RDL	ROOF DRAIN LEADER
EL	ELEVATION	RECP	RECEPTACLE
ELEC	ELECTRIC OR ELECTRICAL	RENF	REINFORCING
ELEV	ELEVATION	REQD	REQUIRED
EQ	EQUIPMENT	RES	RESISTENT
EWC	ELECTRIC WATER COOLER	REV	REVISION
EXIST	EXISTING	RM	ROOM
EPS	EXPANDED POLYSTYRENE	RO	ROUGH OPENING
EXP	EXPANSION	SAC	SUSPENDED ACOUSTICAL CEILING
EXP JT	EXPANSION JOINT	SAC 1	SUSPENDED ACOUSTICAL CEILING 1-HOUR FIRE RATED
EXT	EXTERIOR	S.C.	SOLID CORE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM	SCC	SMOOTH COLORED CONCRETE
FD	FLOOR DRAIN	SCH	SCHEDULE
FIN	FINISH	SECT	SECTION
FIN FLR	FINISH FLOOR	S.F.	SQUARE FEET
FEC	FIRE EXTINGUISHER CABINET	SH	SHEET
FND	FOUNDATION	SHM	SIMILAR
FHC	FIRE HOSE CABINET	SPEC	SPECIFICATIONS
FL	FLOOR	SSM	SOLID SURFACE MATERIAL
FLB	FACE OF BRICK	STD	STANDARD
FOS	FACE OF STUD	STN	STAIN
FPP	FIBER REINFORCED PLASTIC	STG	STAGGER
FIS	FLOOR SINK	STL	STEEL
FRT	FIRE RETARDANT TREATED	STOR	STORAGE
FT	FEET	SUSP	SUSPENDED
FTG	FOOTING	SYNTH	SYNTHETIC
GALV	GALVANIZED	STRUC	STRUCTURAL
GCP	GENERAL CONTRACTOR	TEL	TELEPHONE
GYP	GYPSONUM BOARD	TH	THICKNESS
HR	HOUR	T&B	TOP AND BOTTOM
HD	HUB DRAIN	T&G	TONGUE AND GROOVE
HW	HARDWARE	TRD	THREAD
HGT	HEIGHT	TOS	TOP OF STEEL
HM	HOLLOW METAL	TP	THREADS PER INCH
HORIZ	HORIZONTAL	TY	TYPICAL
HP	HORSEPOWER	UN	UNLESS OTHERWISE NOTED
HTL	HOT ROLLED	UTL	UTILITY
HST	HEIGHT	VCL	VINYL COMPOSITION TILE
HWC	HEATING VENTILATING/AIR CONDITIONING	VEN	VENER
HW	HOT WATER	VWC	VINYL WALL COVERING
ID	INSIDE DIAMETER	WC	WATER CLOSET
IN	INFORMATION	WD	WOOD
INSUL	INSULATION	WGT	WEIGHT
INT	INTERIOR	WH	WATER HEATER
INV	INVERT	WI	WITH
		WO	WITHOUT
		WP	WATER PROOFING
		WWF	WELDED WIRE FABRIC
		XTG	EXISTING

1 ABBREVIATIONS  
12" = 1'-0"

## GRAPHIC SYMBOL LEGEND



2 GRAPHIC SYMBOL LEGEND  
12" = 1'-0"



ARCHITECT OF RECORD  
ANDREW F. HICKS

A NEW CAFETERIA AND MULTI-PURPOSE ROOM

Project Number: 1920-3809-001  
FOR  
HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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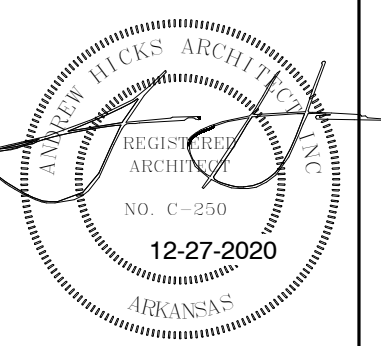
ISSUE DATE: 12-27-2020

REVISIONS

NO.	DATE	REVISION
NO.		
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ARCHITECT OF RECORD  
ANDREW F. HICKS

**A NEW CAFETERIA / SAFE ROOM**  
FOR  
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STRAWBERRY CAMPUS, STRAWBERRY AR

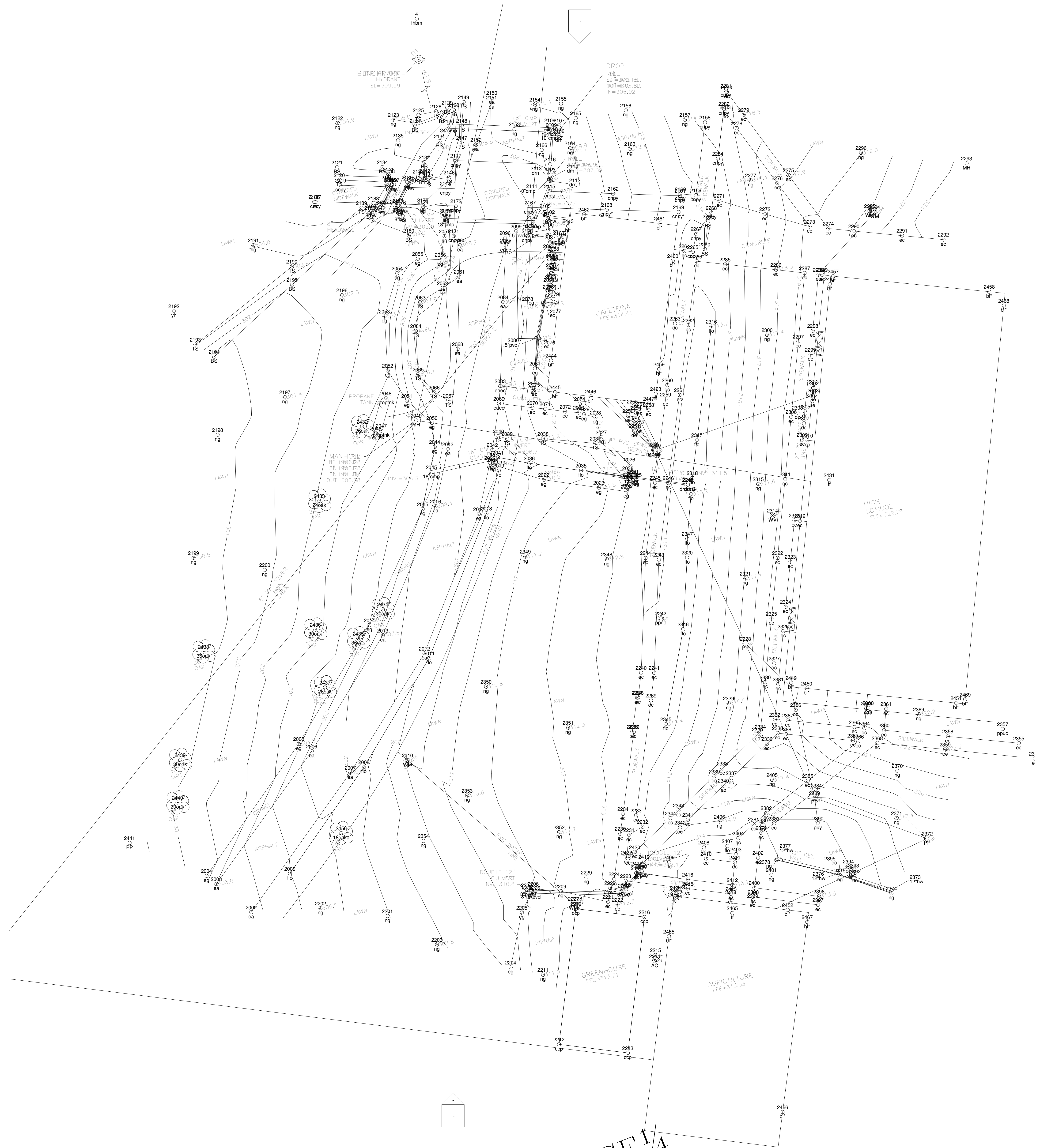
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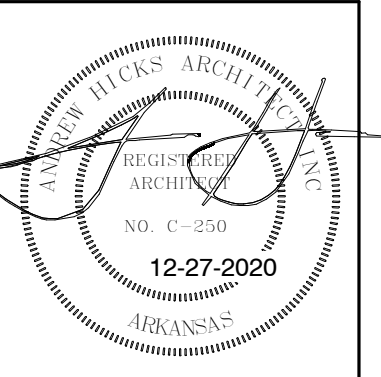
EXISTING SURVEY

**C1.0**



SE 1/4 SE 1/4  
-3W

① EXISTING SURVEY ONLY  
1" = 20'-0"



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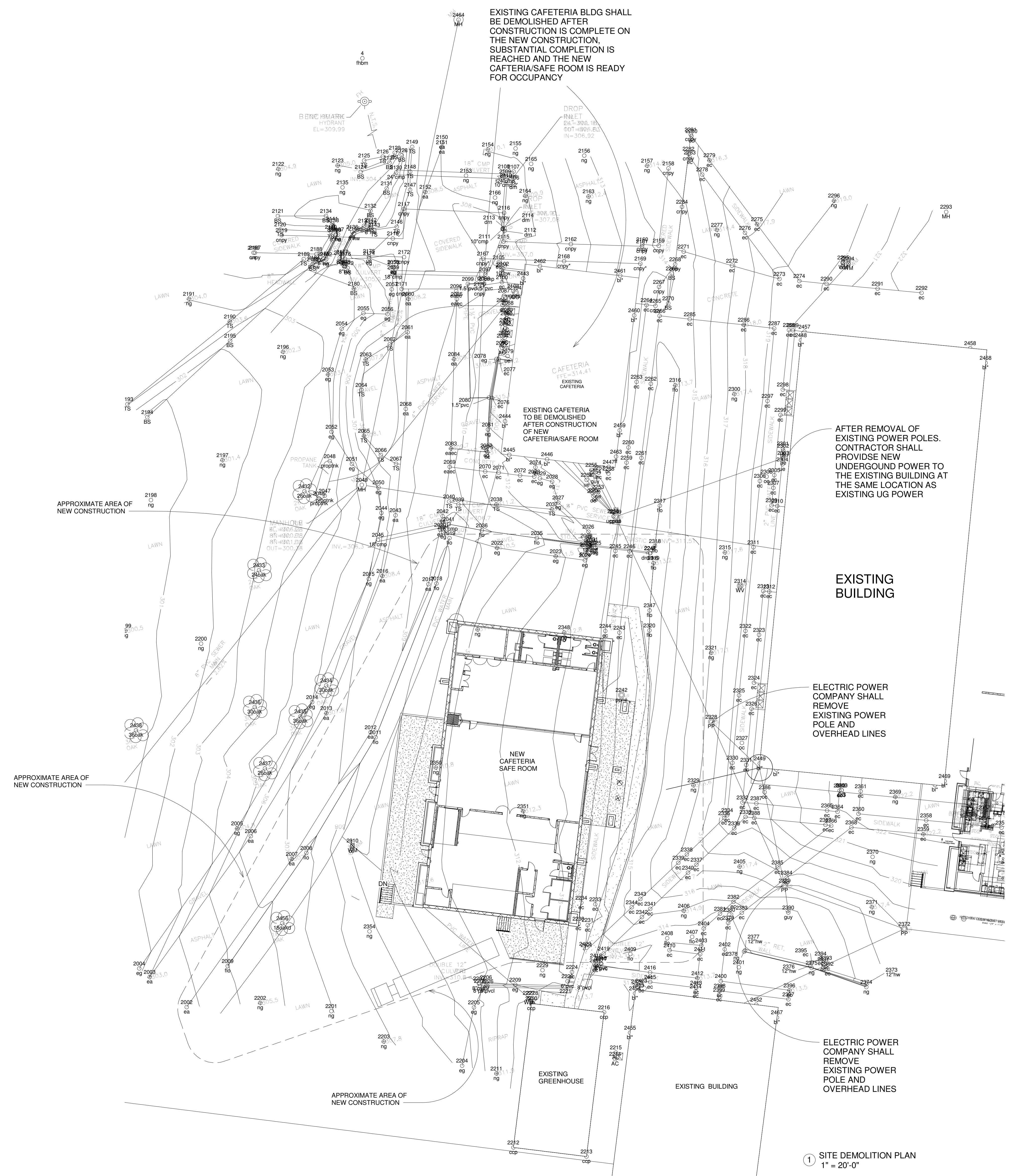
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DEMOLITION PLAN

**C1.1**

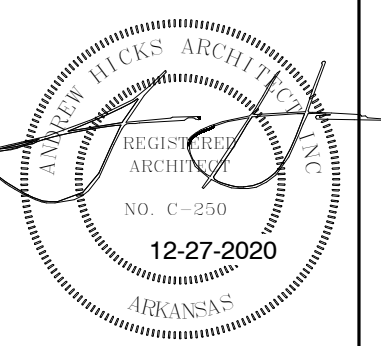


**SITE DEMOLITION NOTES.**

1. THE EXISTING CAFETERIA BUILDING AND INTERIOR EQUIPMENT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY AFTER CONSTRUCTION ON THE NEW CAFETERIA IS COMPLETE.
2. CONTRACTOR SHALL REMOVE AND/OR RELOCATE EXISTING POWER POLES THAT CONFLICT WITH THE NEW CAFETERIA AND HAVE NOT BEEN RE-LOCATED BY THE POWER COMPANY PREVIOUS TO THE START OF CONSTRUCTION. CONTRACTOR SHALL REROUTE POWER AND COMM LINES AS REQUIRED, TYPICAL FOR ALL OVERHEAD OBSTRUCTIONS. SEE ELECTRICAL SHEETS FOR MORE INFO.
3. CERTAIN ITEMS WITHIN THE BUILDINGS MAY REMAIN THE PROPERTY OF THE OWNER. BEFORE DEMOLITION THE CONTRACTOR SHALL INVENTORY ITEMS THAT THE OWNER MAY WANT TO RETAIN. THESE ITEMS, IF ANY, ARE TO BE PLACED IN AN UNDISTURBED AREA OF THE SITE FOR THE OWNER TO PICK UP AND RELOCATE.
4. ALTHOUGH IT IS BELIEVED THAT NO TOXIC MATERIAL EXISTS IN THE BUILDING TO BE DEMOLISHED IF ANY TOXIC MATERIAL IS FOUND, THE OWNER WILL BE RESPONSIBLE FOR THE HANDLING, REMOVAL OR ABATEMENT OF ANY HAZARDOUS AND TOXIC MATERIAL THAT MAY BE DISCOVERED ON THIS SITE.
5. CONTRACTOR SHALL REMOVE ANY OTHER EXISTING CONSTRUCTION ON THE SITE AND GENERAL AREA OF NEW CONSTRUCTION THAT CONFLICTS WITH THE NEW CONSTRUCTION. ALL OTHER EXISTING CONCRETE FOUNDATIONS OR UNDERGROUND STRUCTURES, IF ANY, SHALL BE DEMOLISHED AND REMOVED FROM THE SITE. UNDERGROUND REMAINS (FOOTINGS, PLUMBING) OF ANY OLDER CONSTRUCTION, IF FOUND, SHALL BE REMOVED. INCLUDE IN THE DEMOLITION ALL EXISTING FOUNDATIONS, UTILITIES AND ANY ABOVE GROUND STRUCTURES.
6. EXISTING SITE PAVING, EITHER CONCRETE OR ASPHALT, IS TO BE DEMOLISHED OR PARTIALLY DEMOLISHED OR MODIFIED AS REQUIRED TO CONSTRUCT NEW SITE PLAN AS SHOWN ON THIS SHEET. THE DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT A LEGAL DUMPSITE OR AS OTHERWISE REQUIRED BY LAW.
7. CONTRACTOR SHALL COORDINATE THE REMOVAL OF OR RELOCATION OF ANY EXISTING UTILITIES THAT ARE NOT TO BE RE-USED FROM THE AFFECTED AREA OF THE SITE. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MORE INFORMATION.
8. CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OR NEW INSTALLATION OF EXISTING PROPANE GAS LINES FROM THE AFFECTED AREA OF THE SITE.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE OTHER ITEMS NOT SPECIFICALLY NAMED HERE THAT MAY CONFLICT WITH THE CONSTRUCTION OF THIS PROJECT AND TO CONSULT WITH THE ARCHITECT AND OWNER REGARDING THEIR REMOVAL OR RELOCATION.
10. THE CONTRACTOR AND/OR PROJECT MANAGER SHALL BE RESPONSIBLE FOR GIVING THE (A.D.E.O.) ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY TEN (10) DAYS WRITTEN NOTICE OR OTHER REQUIRED NOTICE OF THE DEMOLITION AND/OR REMODELING PROPOSED PRIOR TO STARTING THE DEMOLITION AND/OR REMODELING, IF REQUIRED BY CONDITIONS.

1 SITE DEMOLITION PLAN  
1" = 20'-0"





ARCHITECT OF RECORD  
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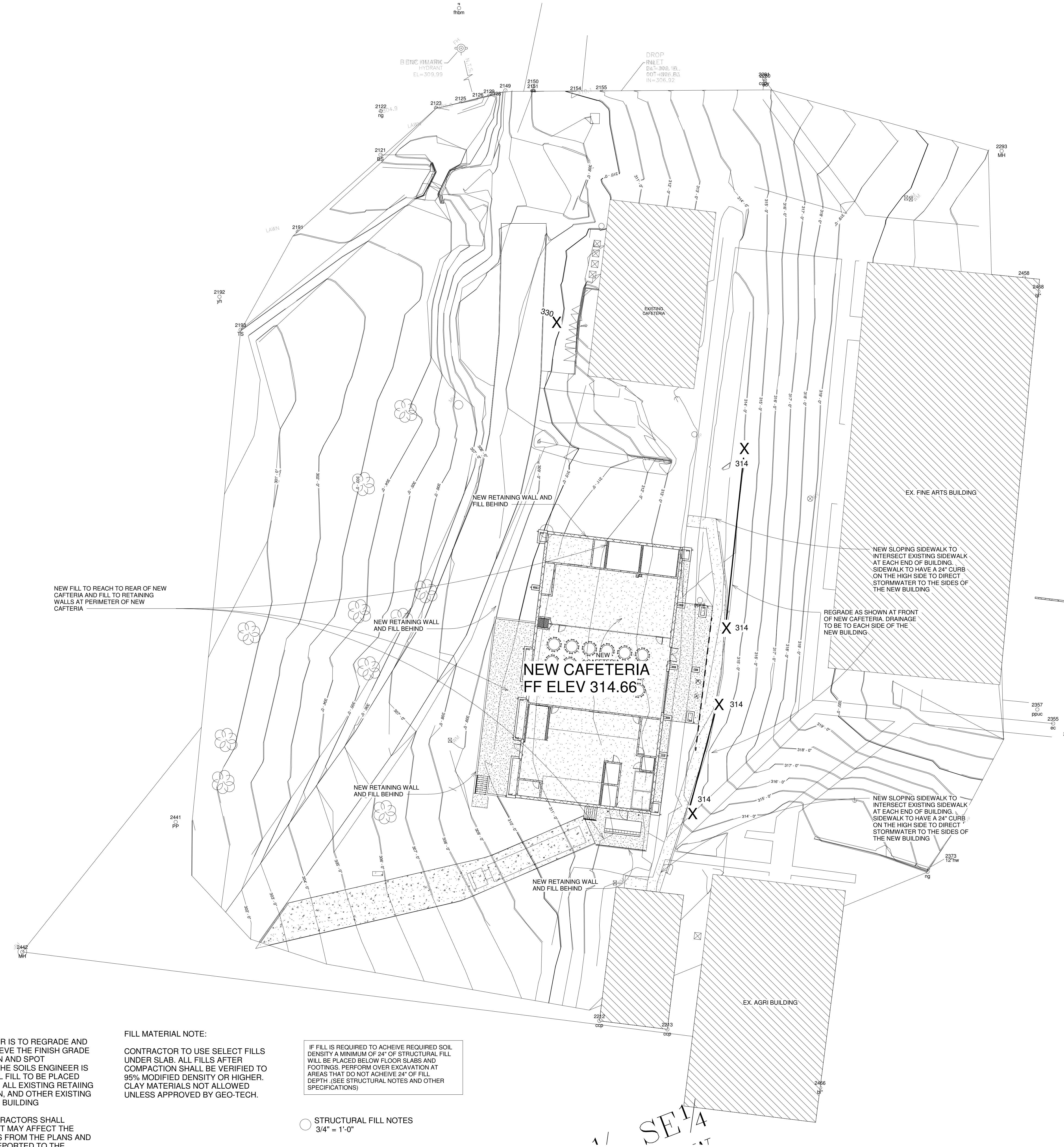
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REVISIONS	
NO.	DATE
2	10-2-2020
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GRADING PLAN

**C1.2**



**GENERAL FILL NOTES:**

(1.) EARTHWORK AND EXCAVATION CONTRACTOR IS TO REGRADE AND IMPORT OR EXPORT FILL AS REQUIRED TO ACHIEVE THE FINISH GRADE ELEVATIONS AS SHOWN ON THE CONTOUR PLAN AND SPOT ELEVATIONS. SUITABLE FILL AS APPROVED BY THE SOILS ENGINEER IS TO BE USED TO FILL THE SITE AS REQUIRED. ALL FILL TO BE PLACED PER SPECIFICATIONS CONTRACTOR TO REMOVE ALL EXISTING RETAINING WALL, RETAINING WALL FOOTINGS, VEGETATION, AND OTHER EXISTING FEATURES THAT WILL CONFLICT WITH THE NEW BUILDING

(2.) THE GENERAL CONTRACTOR AND SUB CONTRACTORS SHALL VERIFY ALL EXISTING ELEVATIONS GRADES THAT MAY AFFECT THE WORK BEFORE BIDDING. IF ANY DISCREPANCIES FROM THE PLANS AND SPECIFICATIONS ARE FOUND THEY SHALL BE REPORTED TO THE ARCHITECT BEFORE BIDDING.

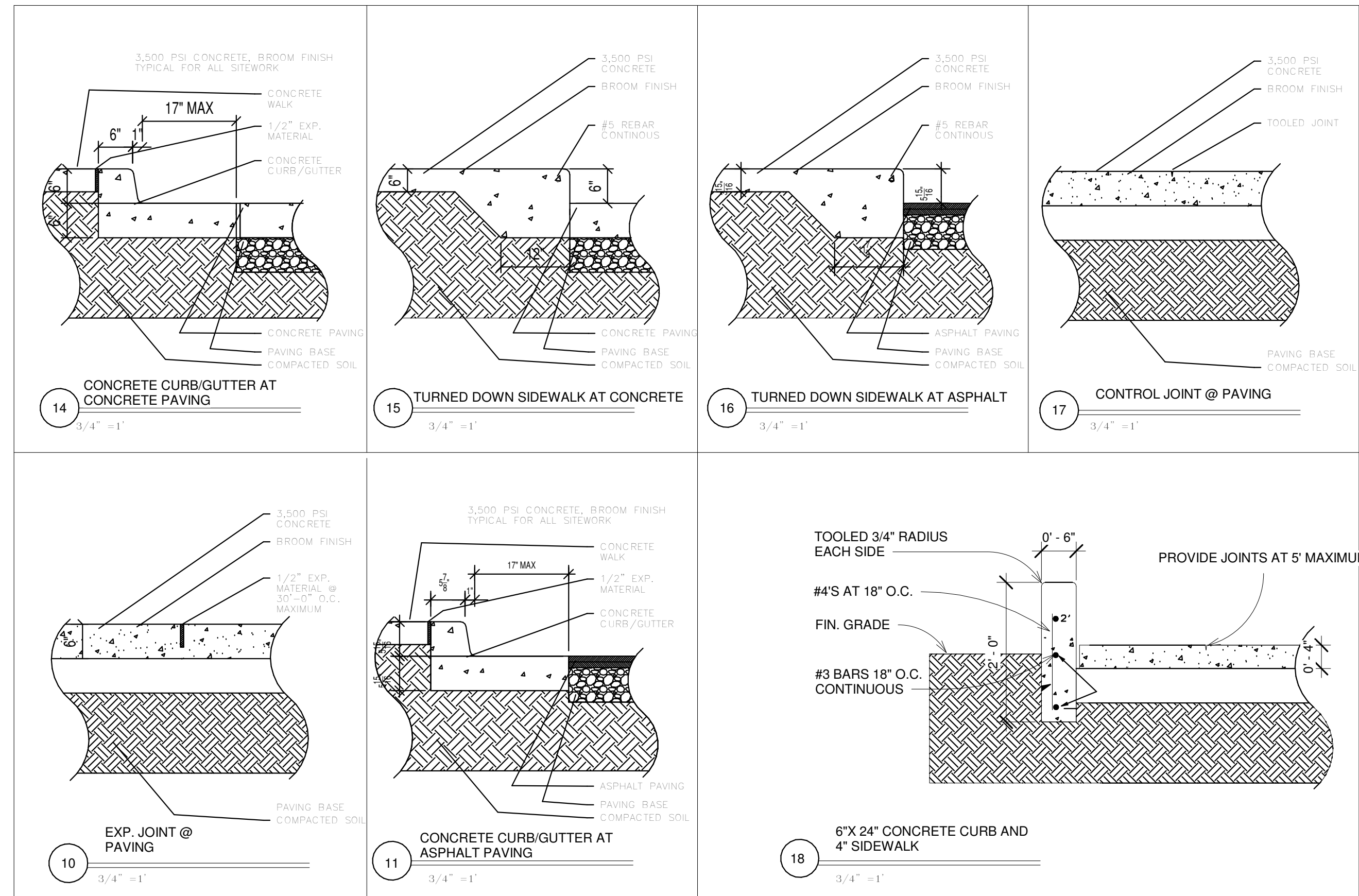
**FILL MATERIAL NOTE:**

CONTRACTOR TO USE SELECT FILLS UNDER SLAB. ALL FILLS AFTER COMPACTION SHALL BE VERIFIED TO 95% MODIFIED DENSITY OR HIGHER. CLAY MATERIALS NOT ALLOWED UNLESS APPROVED BY GEO-TECH.

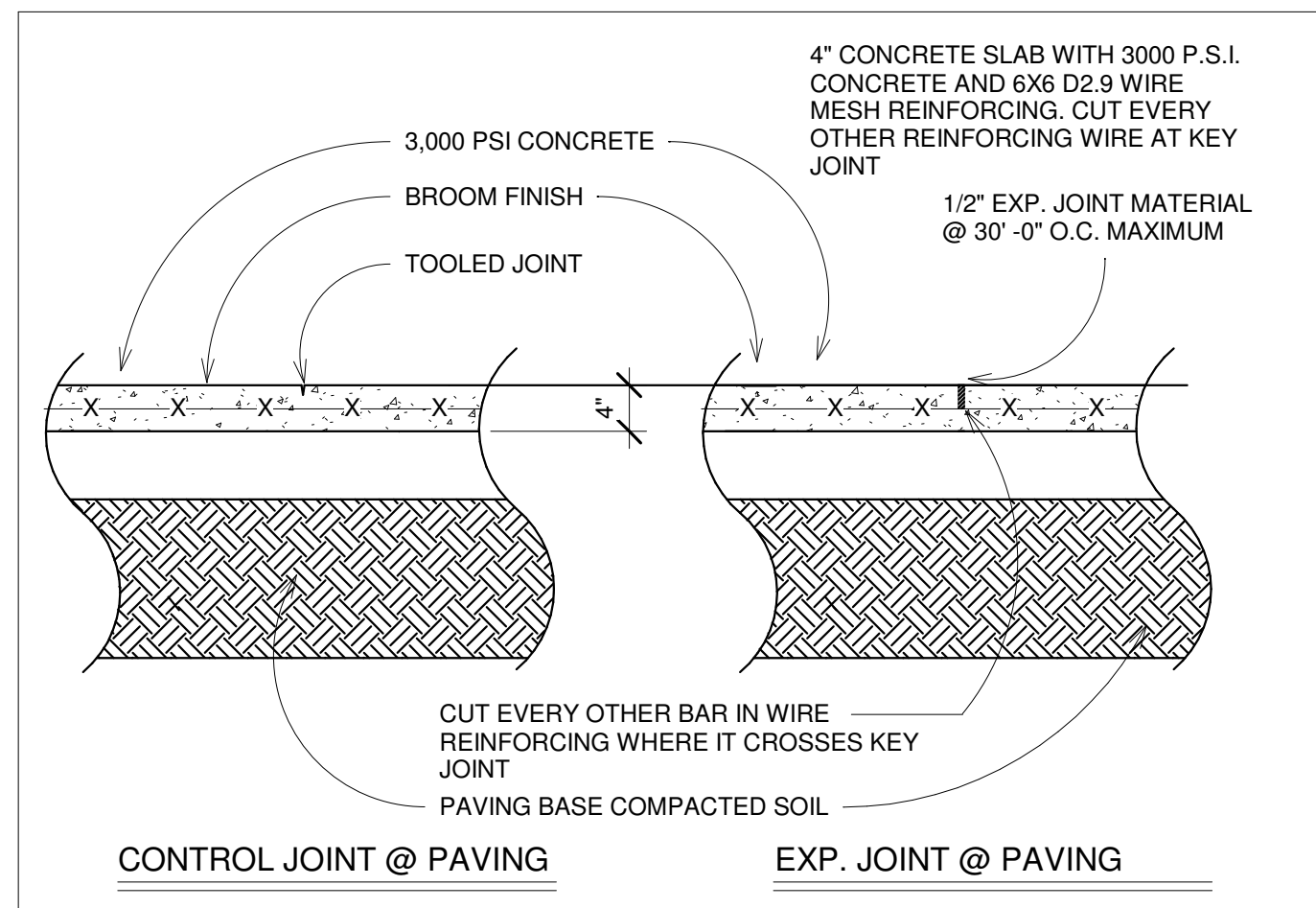
IF FILL IS REQUIRED TO ACHIEVE REQUIRED SOIL DENSITY A MINIMUM OF 24" OF STRUCTURAL FILL WILL BE PLACED BELOW FLOOR SLABS AND FOOTINGS. PERFORM OVER EXCAVATION AT AREAS THAT DO NOT ACHIEVE 24" OF FILL DEPTH. (SEE STRUCTURAL NOTES AND OTHER SPECIFICATIONS)

○ STRUCTURAL FILL NOTES  
3/4" = 1'-0"

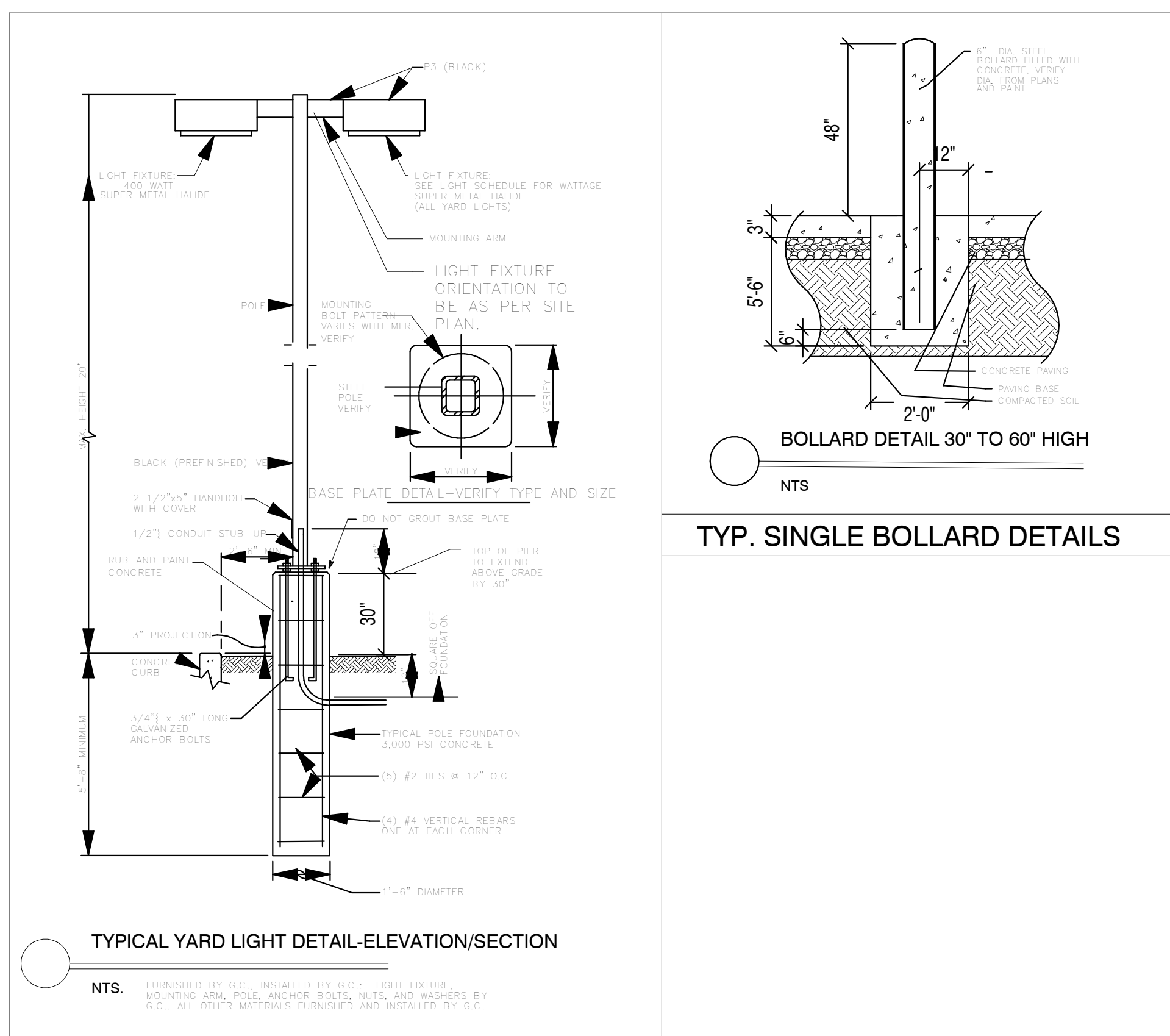
1 SITE GRADING PLAN  
1" = 20'-0"



5 SITE DETAILS-PAVING AND CURB  
1 : 17



2 SITE DETAILS-CONCRETE WALKS  
3/4" = 1'-0"



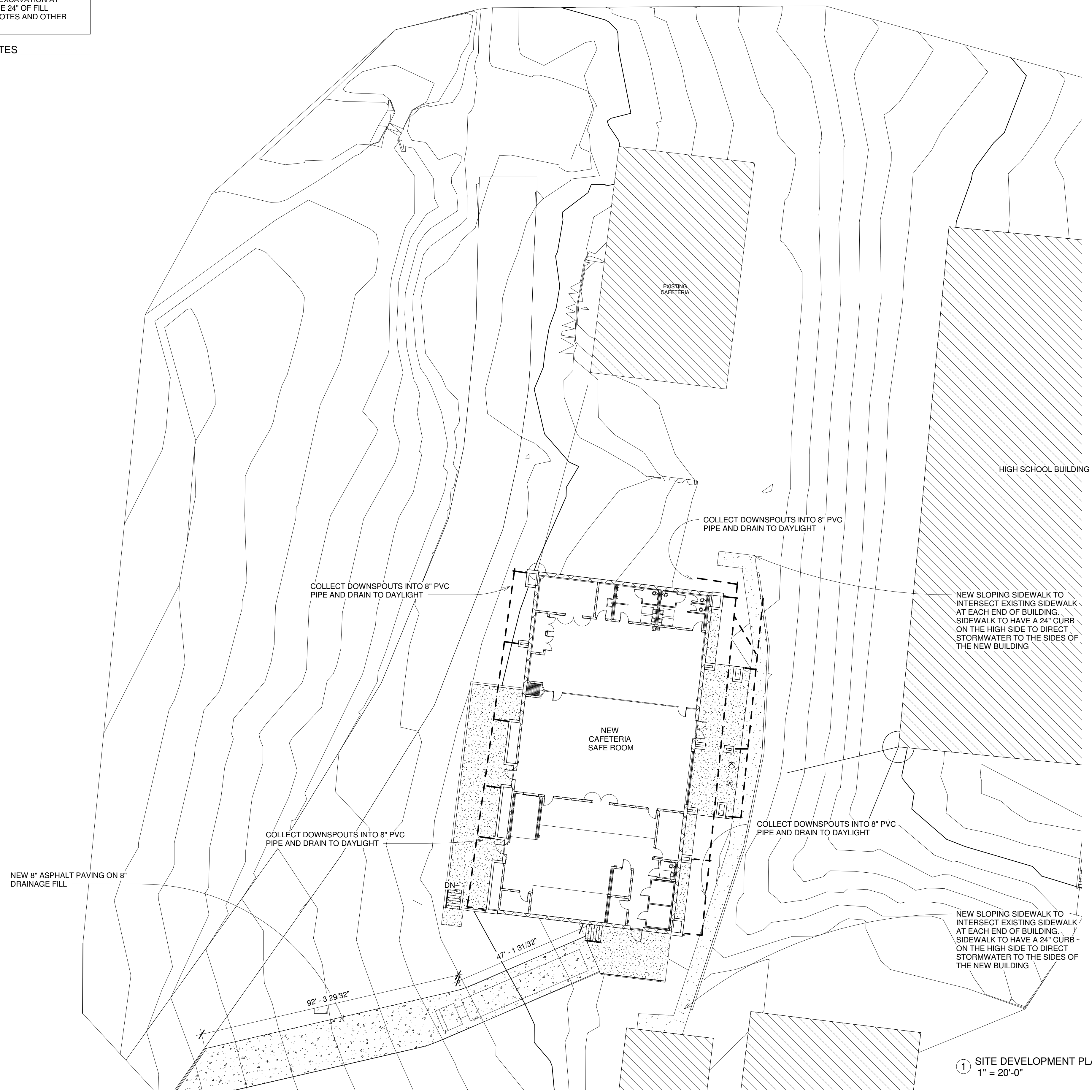
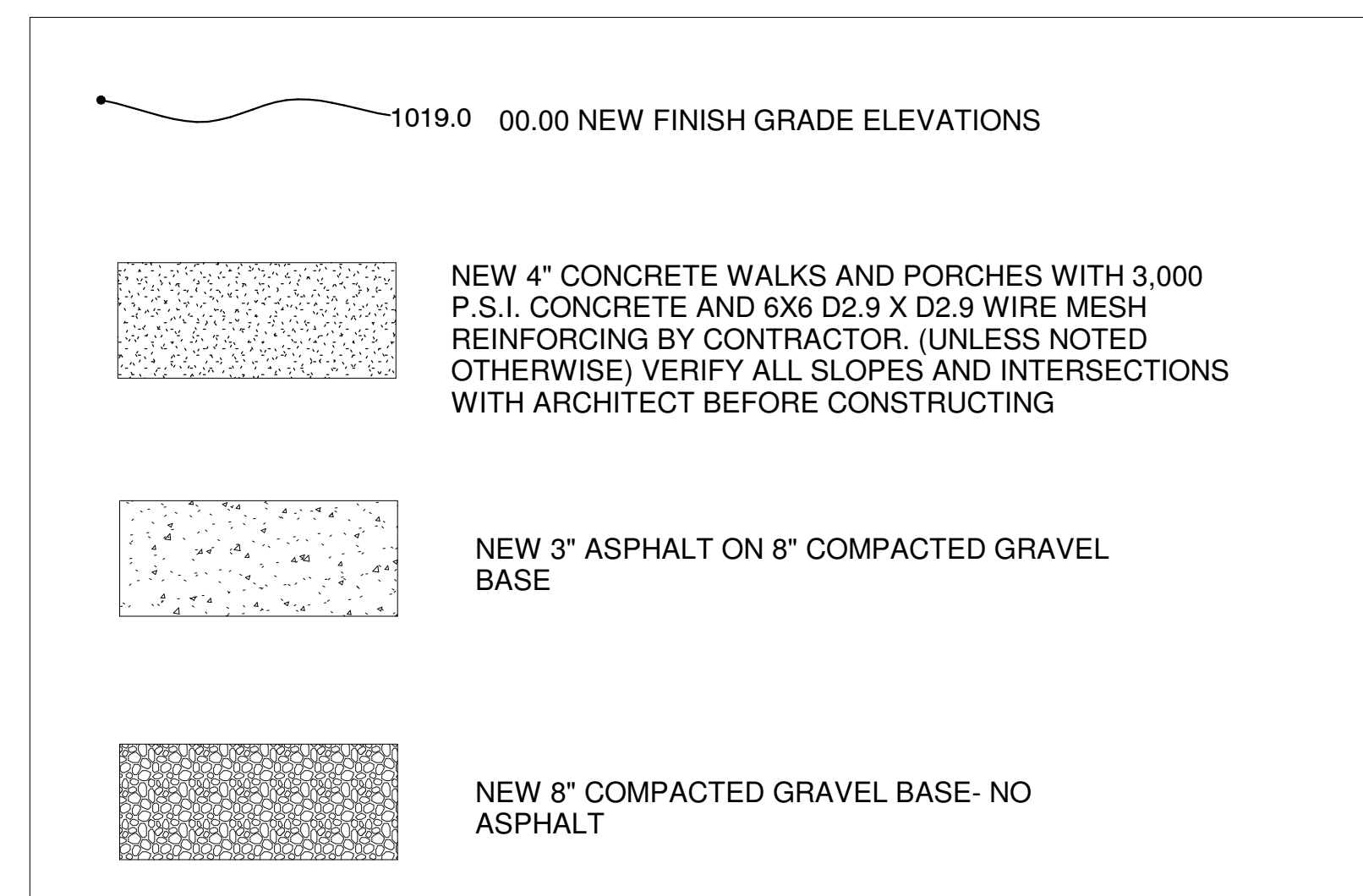
**GENERAL SITE DEVELOPMENT AND CONSTRUCTION NOTES**

- REMOVE ALL VEGETATION, DEBRIS, UNSATISFACTORY SOIL MATERIALS, OBSTRUCTIONS, AND DELETERIOUS MATERIALS FROM OF FILLS SURFACE PRIOR TO PLACEMENT
- PROVIDE 4" DRAINAGE FILL BELOW FLOOR SLAB AS INDICATED. WASHED, EVENLY GRADED MIXTURE OF CRUSHED STONE, OR CRUSHED OR UNCRUSHED GRAVEL, WITH 100 PERCENT PASSING A 1-1/2 INCH SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.
- THE CONTRACTOR SHALL PROVIDE NEW FOOTINGS FOR NEW YARD LIGHTS, INCLUDING ELECTRICAL CONNECTIONS, POLE AND LIGHT FIXTURE INSTALLATION BY BLDG. ELECTRICAL SUBCONTRACTOR.
- THE CONTRACTOR SHALL FURNISH AND INSTALL NEW CONCRETE CURBS, SIDEWALKS, AND ASPHALT PATCH PAVING AT AREAS AS SHOWN AND AS REQUIRED.
- ALL WALKS SHALL BE MINIMUM 3,500 PSI READY-MIX CONCRETE, SLOPED TO DRAIN, WITH A LIGHT BROOM FINISH. WEAKENED PLANE JOINTS SHALL BE A MINIMUM OF 1/5 THE DEPTH OF THE PAVING AND IN PATTERNS INDICATED. PROVIDE ASPHALT IMPREGNATED EXPANSION JOINT FILLERS AT 20-25 FT. O.C., AND WHERE INDICATED AND SEAL ALL JOINTS PER MFG. SPECS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL DEPOSITS, FEES AND OTHER CHARGES AS REQUIRED TO CONSTRUCT THE BUILDING AND SITE IMPROVEMENTS.
- THE CONTRACTOR SHALL PROVIDE FIELD ENGINEERING FOR SITE GRADING (AND ALL) AS REQUIRED TO PERFORM THIS WORK. THE CONTRACTOR SHALL PROVIDE ALL QUALITY CONTROL, INCLUDING BUT NOT LIMITED TO COMPACTION TESTING, PLUMBING TESTING, ELECTRICAL SYSTEMS TESTING, AND HVAC TESTING AND BALANCING.
- ALL MATERIALS SHALL BE NEW. PRODUCT SUBSTITUTIONS ARE ALLOWED ONLY AFTER PRIOR APPROVAL BY THE OWNER.
- ITEMS FURNISHED BY THE OWNER ARE INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL ASSIST OWNER IN THE INSTALLATION OF ALL N.I.C. ITEMS UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE LOCATION, DETERMINATION OR REMOVAL OF ANY HAZARDOUS OR TOXIC MATERIALS
- PROVIDE TEMPORARY FACILITIES, INCLUDING ELECTRICAL POWER FOR CONSTRUCTION, TOILET, AND TELEPHONE. A JOB OFFICE SHALL BE REQUIRED, FOR THE STORAGE AND REVIEW OF PLANS, SHOP DRAWINGS AND OTHER DOCUMENTS AS REQUIRED.
- TERMITE TREATMENT: PROVIDE A CERTIFIED TERMITE APPLICATION TO ALL AREAS OF NEW BUILDING CONSTRUCTION. METHODS OF TERMITE TREATMENT FOR SHALL BE DETERMINED BY THE TREATER. CERTIFICATE SHALL GUARANTEE AGAINST INFESTATION FOR A PERIOD OF THREE (3) YEARS.
- CONTRACTOR SHALL OBTAIN ALL PERMITS AND PAY ALL DEPOSITS, FEES AND OTHER CHARGES AS REQUIRED TO CONSTRUCT THE BUILDING AND SITE IMPROVEMENTS. SEE SPECIFICATIONS FOR ELECTRIC ALLOWANCE, IF ANY, TO PROVIDE IN BID PRICE
- THE CONTRACTOR AND THE OWNER SHALL CONSULT WITH THE LOCAL POWER COMPANY TO DETERMINE THE BEST LOCATION FOR INCOMING POWER POLES OR UNDERGROUND POWER LINES. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF THE INCOMING SERVICE WITH THE INFORMATION AS SHOWN ON THE ELECTRICAL SHEETS AND MAKE ADJUSTMENTS AS REQUIRED.
- PROVIDE A ONE-YEAR GENERAL CONTRACTOR'S WARRANTY ON ALL MATERIAL AND LABOR.

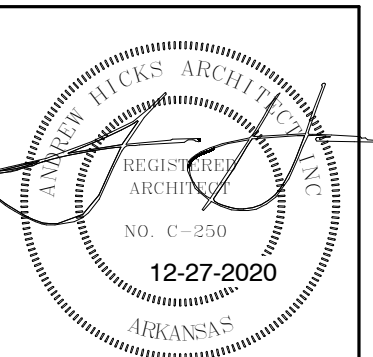
IF FILL IS REQUIRED TO ACHIEVE REQUIRED SOIL DENSITY A MINIMUM OF 24" OF STRUCTURAL FILL WILL BE PLACED BELOW FLOOR SLABS AND FOOTINGS. PERFORM OVER EXCAVATION AT AREAS THAT DO NOT ACHIEVE 24" OF FILL DEPTH (SEE STRUCTURAL NOTES AND OTHER SPECIFICATIONS)

STRUCTURAL FILL NOTES  
3/4" = 1'-0"

**SITE LEGEND**



1 SITE DEVELOPMENT PLAN  
1" = 20'-0"



ARCHITECT OF RECORD  
ANDREW F. HICKS

A NEW CAFETERIA / SAFE ROOM  
1920-3809-001

FOR  
HILLCREST SCHOOL DISTRICT

STRAWBERRY CAMPUS, STRAWBERRY AR

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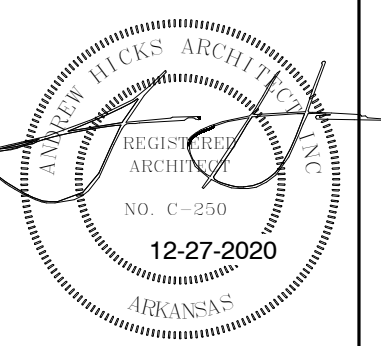
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NO.	DATE

SITE DEVELOPMENT PLAN AND SITE DETAILS

C1.3





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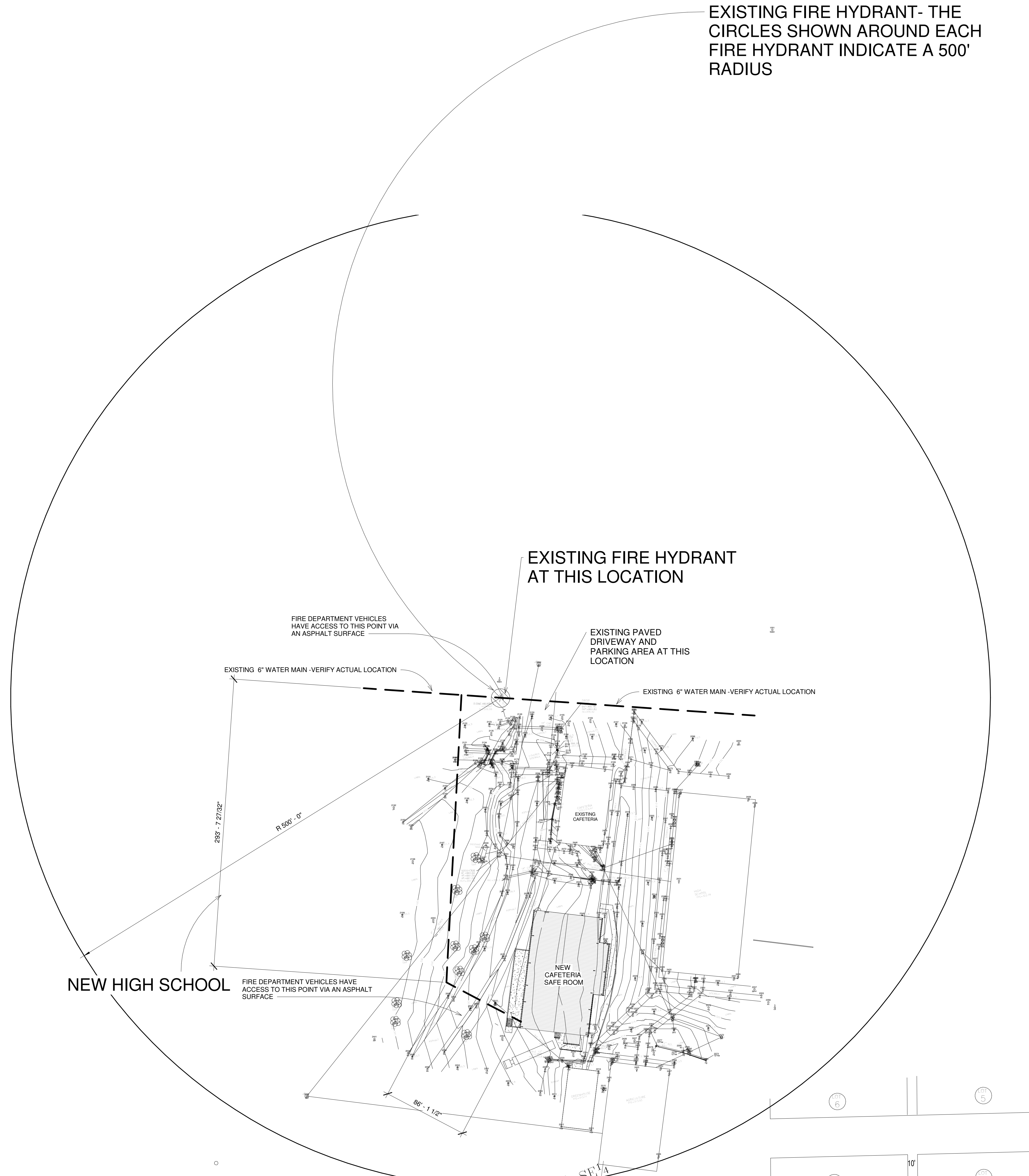
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NO.	DATE

CAMPUS FIRE HYDRANT AND NEW WATER MAIN LOCATION  
PLAN

C1.4

EXISTING FIRE HYDRANT- THE  
CIRCLES SHOWN AROUND EACH  
FIRE HYDRANT INDICATE A 500'  
RADIUS



NEW HIGH SCHOOL

EXISTING FIRE HYDRANT  
AT THIS LOCATION

R 500' - 0"

EXISTING 6" WATER MAIN - VERIFY ACTUAL LOCATION

EXISTING 6" WATER MAIN - VERIFY ACTUAL LOCATION

FIRE DEPARTMENT VEHICLES  
HAVE ACCESS TO THIS POINT VIA  
AN ASPHALT SURFACE

EXISTING PAVED  
DRIVEWAY AND  
PARKING AREA AT THIS  
LOCATION

R 500' - 0"

230' - 7 27/32"

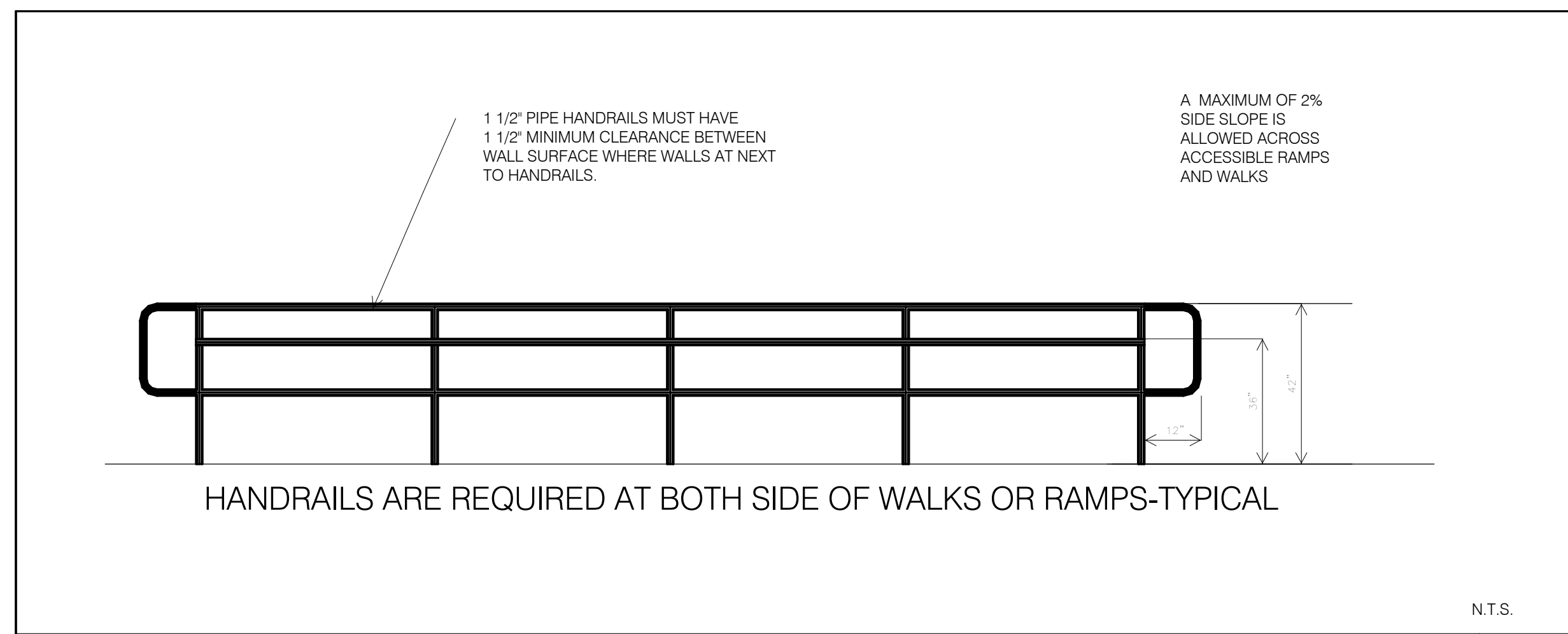
FIRE DEPARTMENT VEHICLES HAVE  
ACCESS TO THIS POINT VIA AN ASPHALT  
SURFACE

88' - 1 1/2"

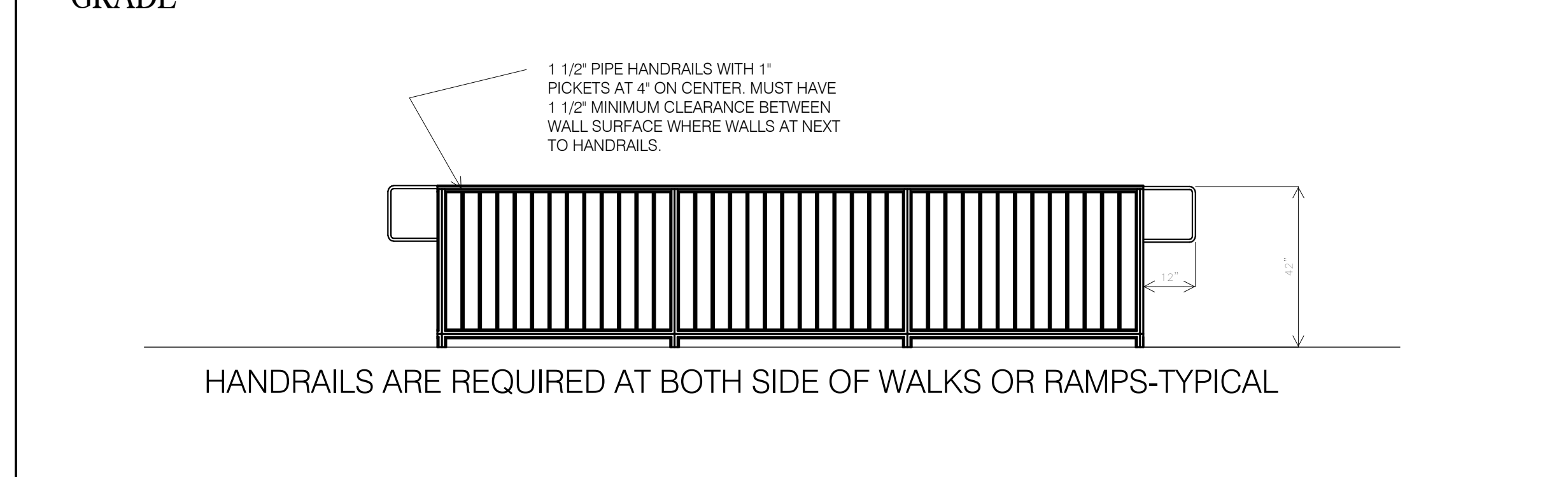
FIRE HYDRANT LOCATION  
PLAN-EXISTING AND NEW  
1" = 50'-0"



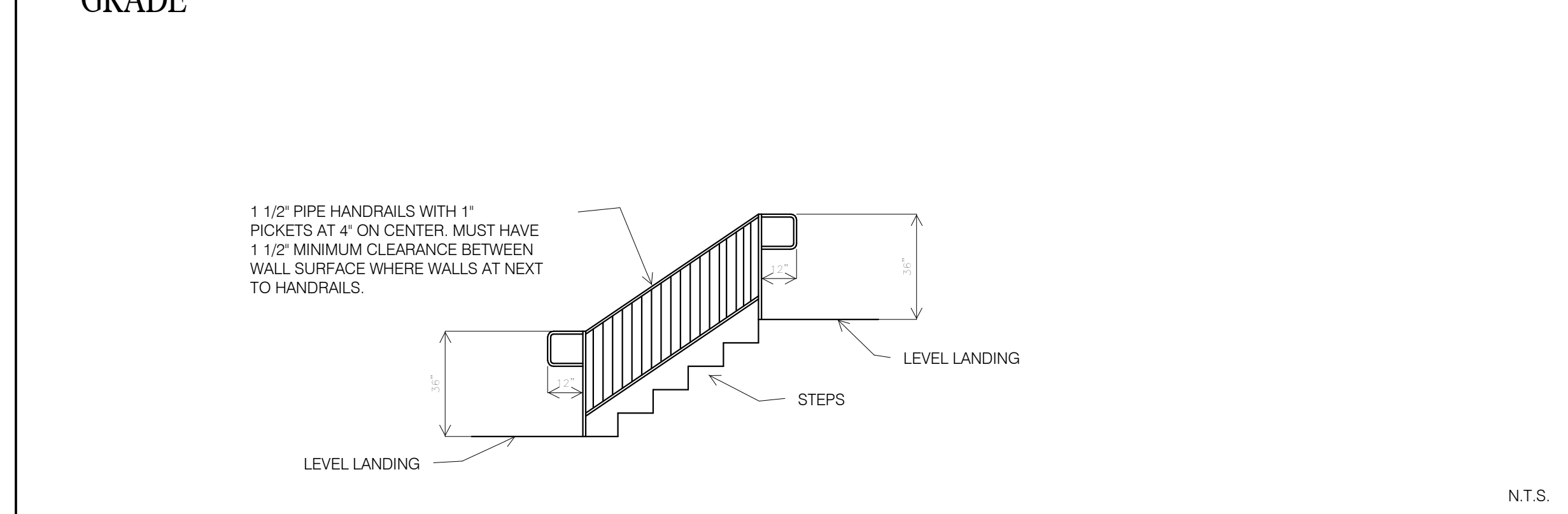




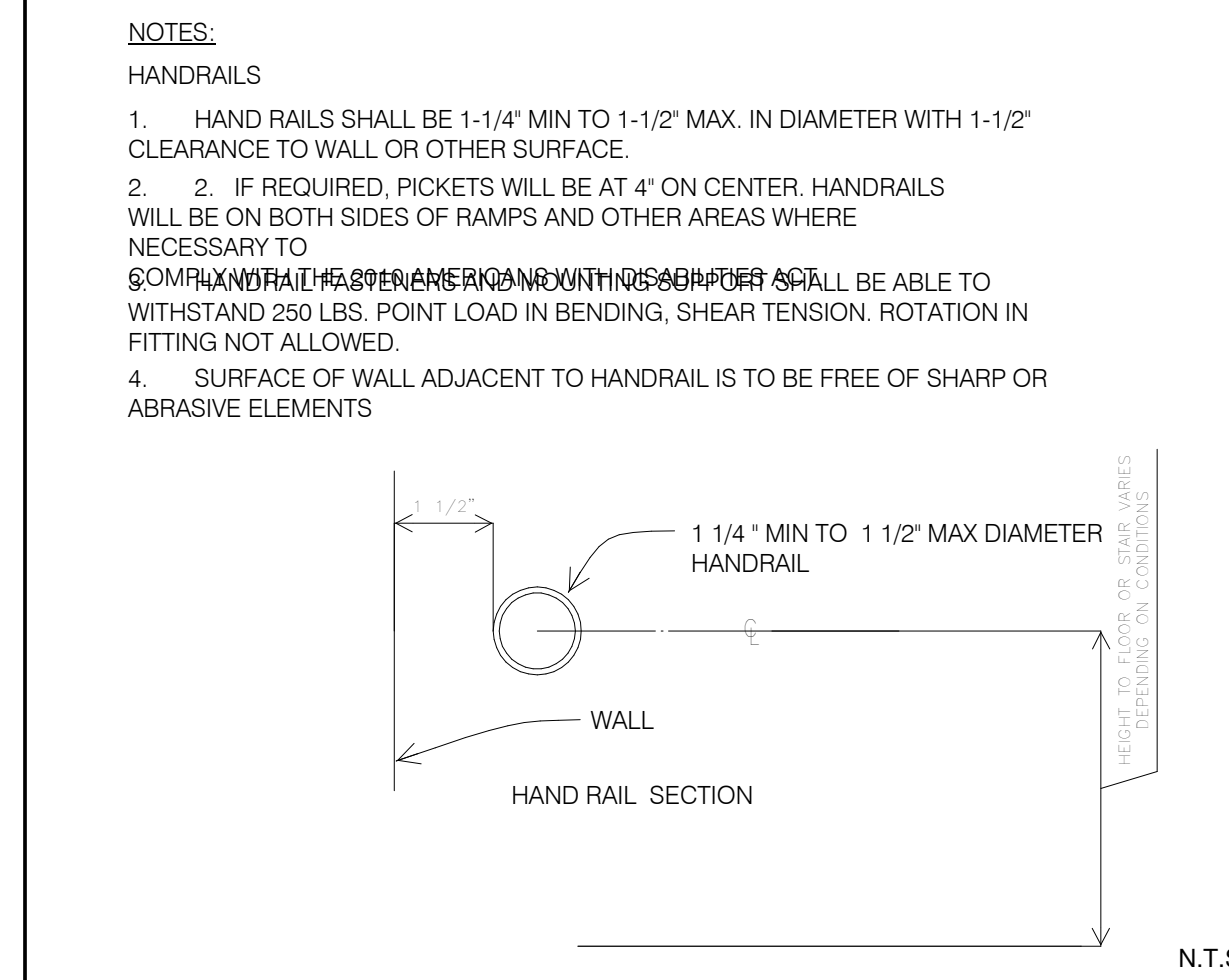
TYPICAL HANDRAIL "A" AT RAMPS ALONG WALKS LESS THAN 30" ABOVE GRADE 10



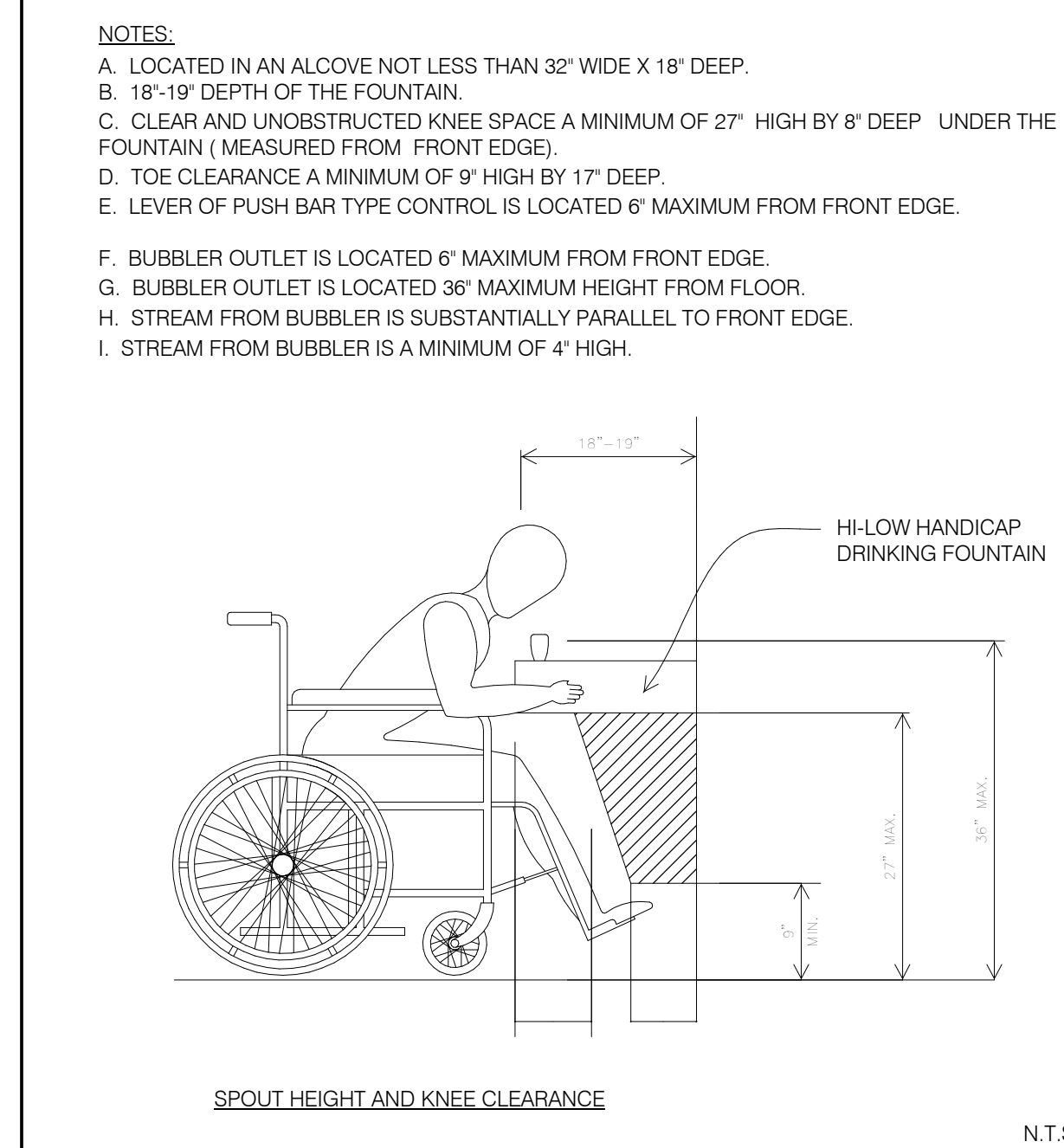
TYPICAL HANDRAIL "B" AT RAMPS ALONG WALKS MORE THAN 30" ABOVE GRADE 11



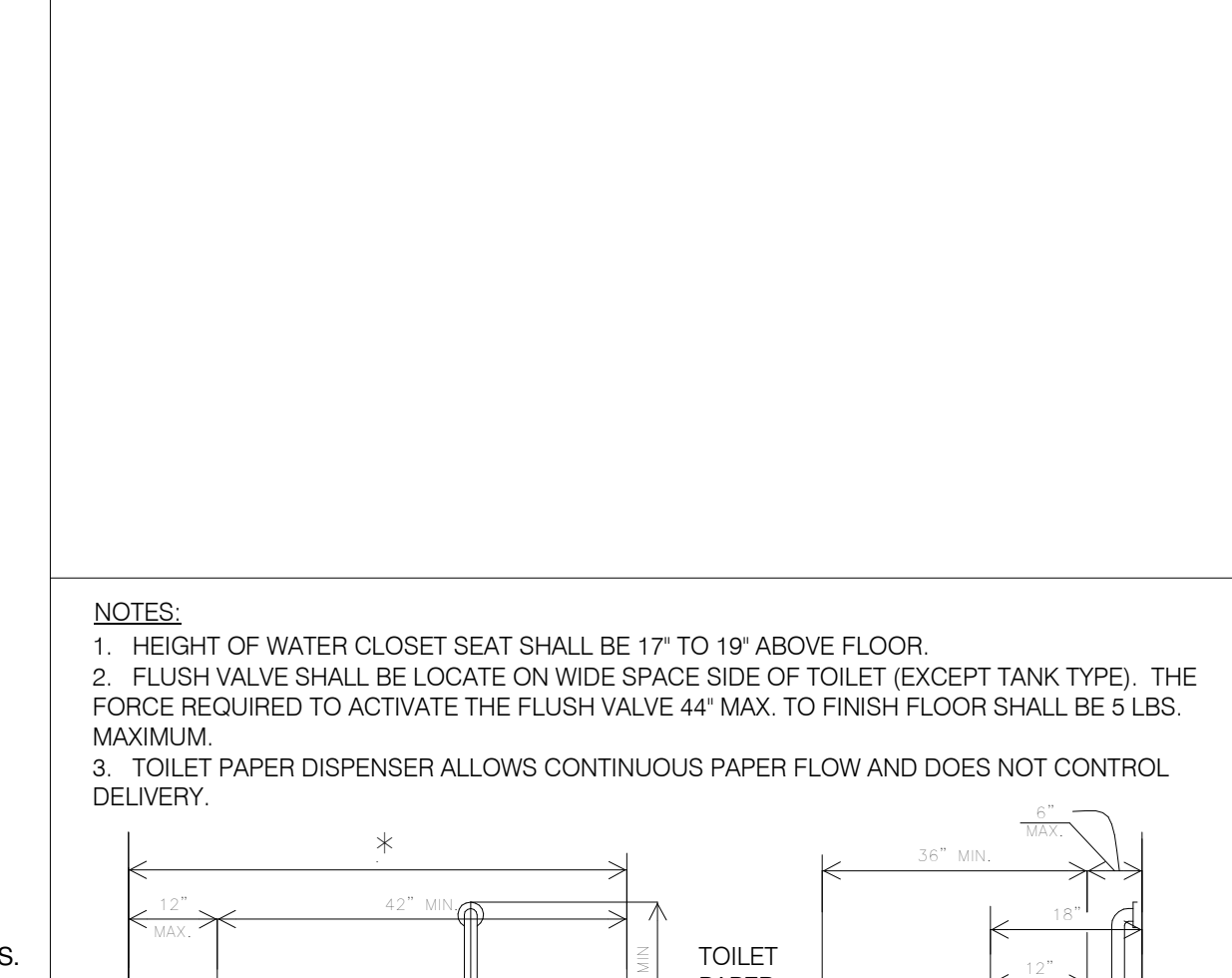
TYPICAL HANDRAILS AT STEPS AND RAMPS 29



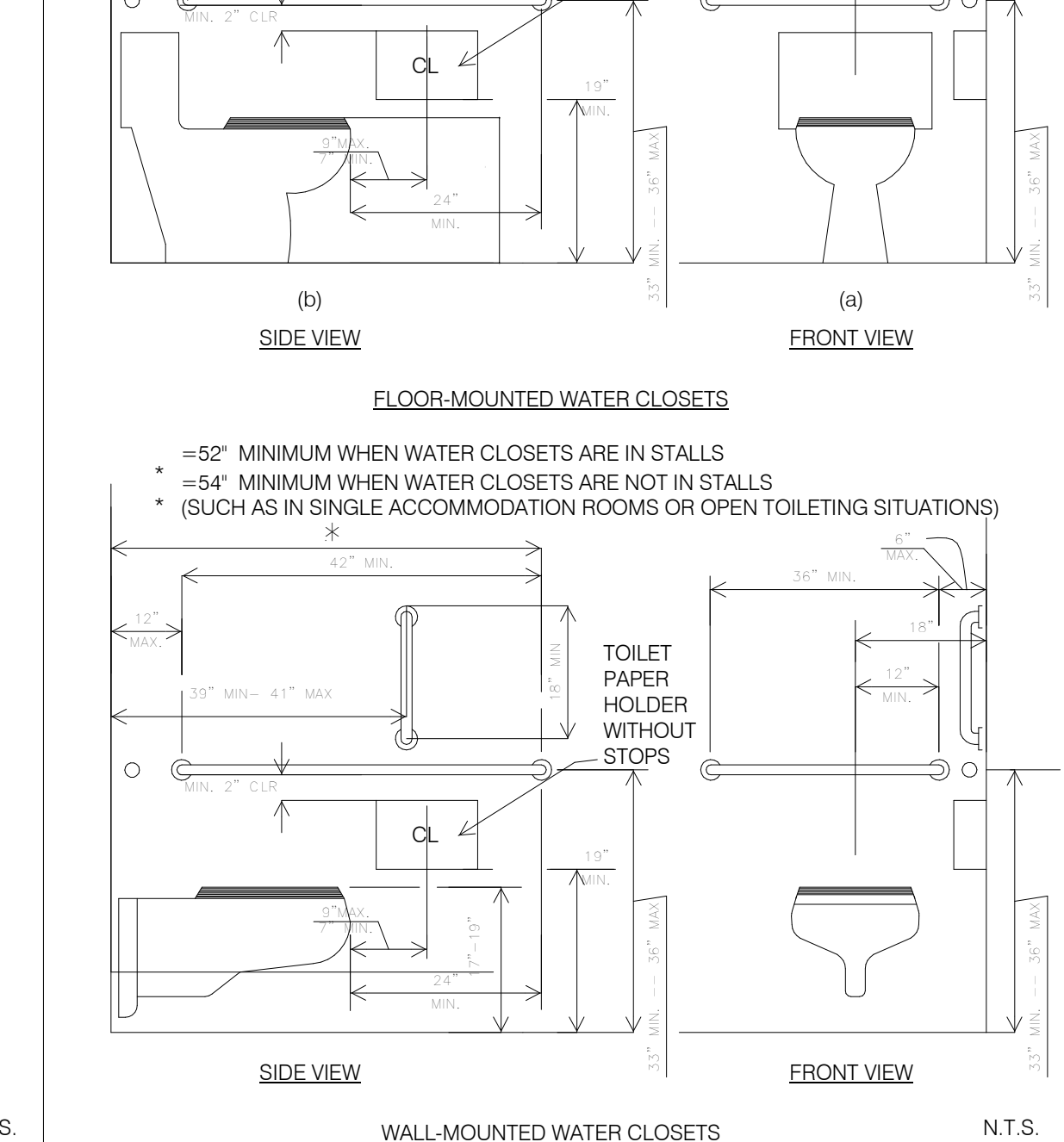
HANDRAIL DETAIL 13



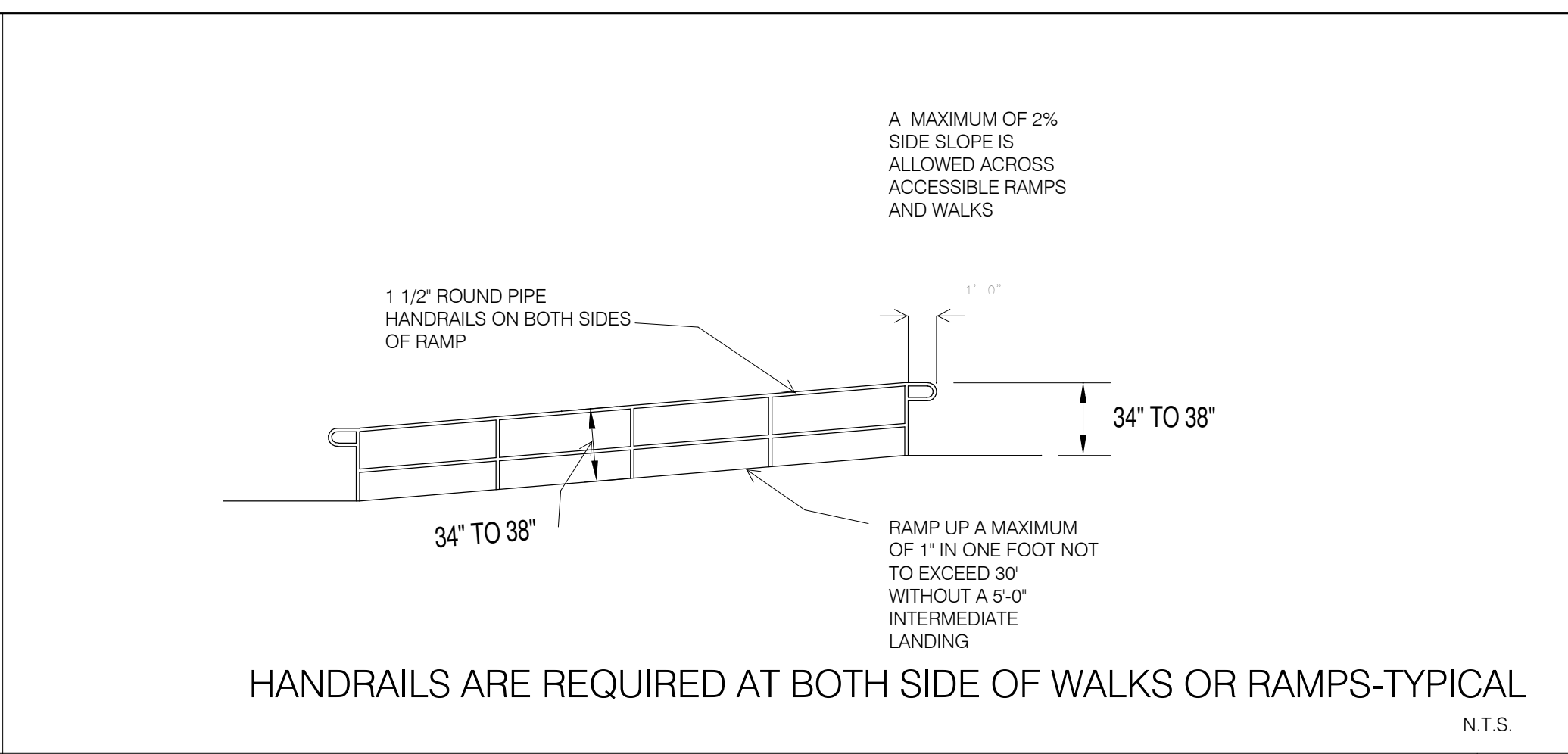
WATER FOUNTAIN 14



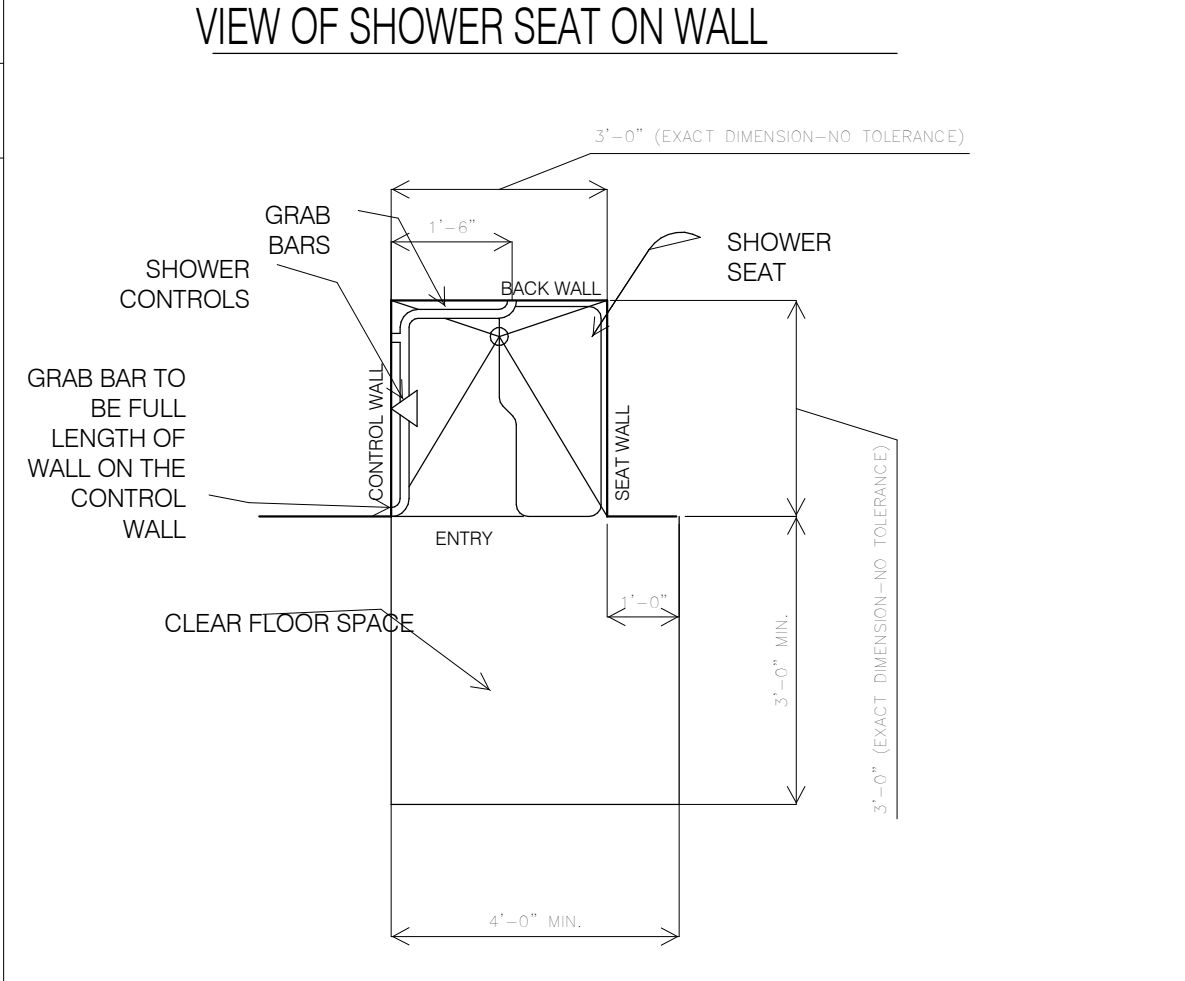
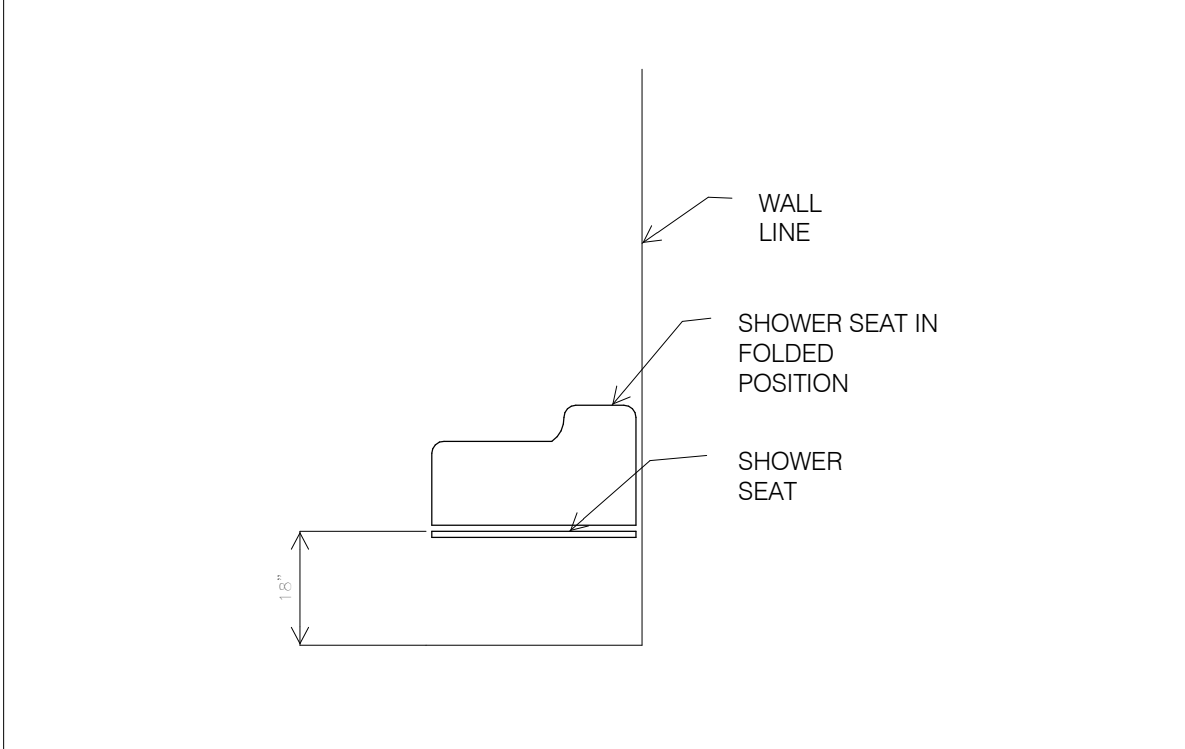
GRAB BAR & TOILET PAPER LOC. 12



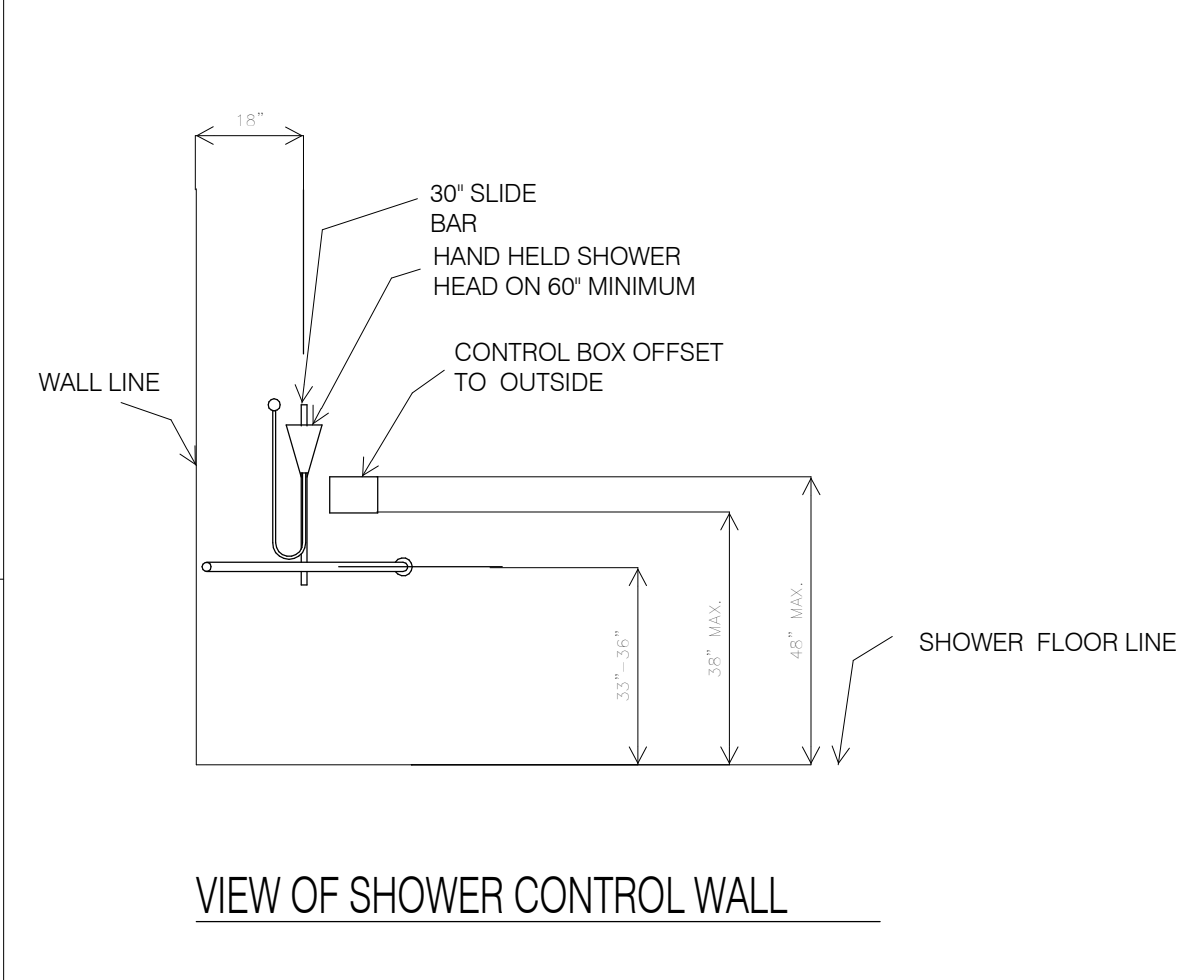
URINALS 9



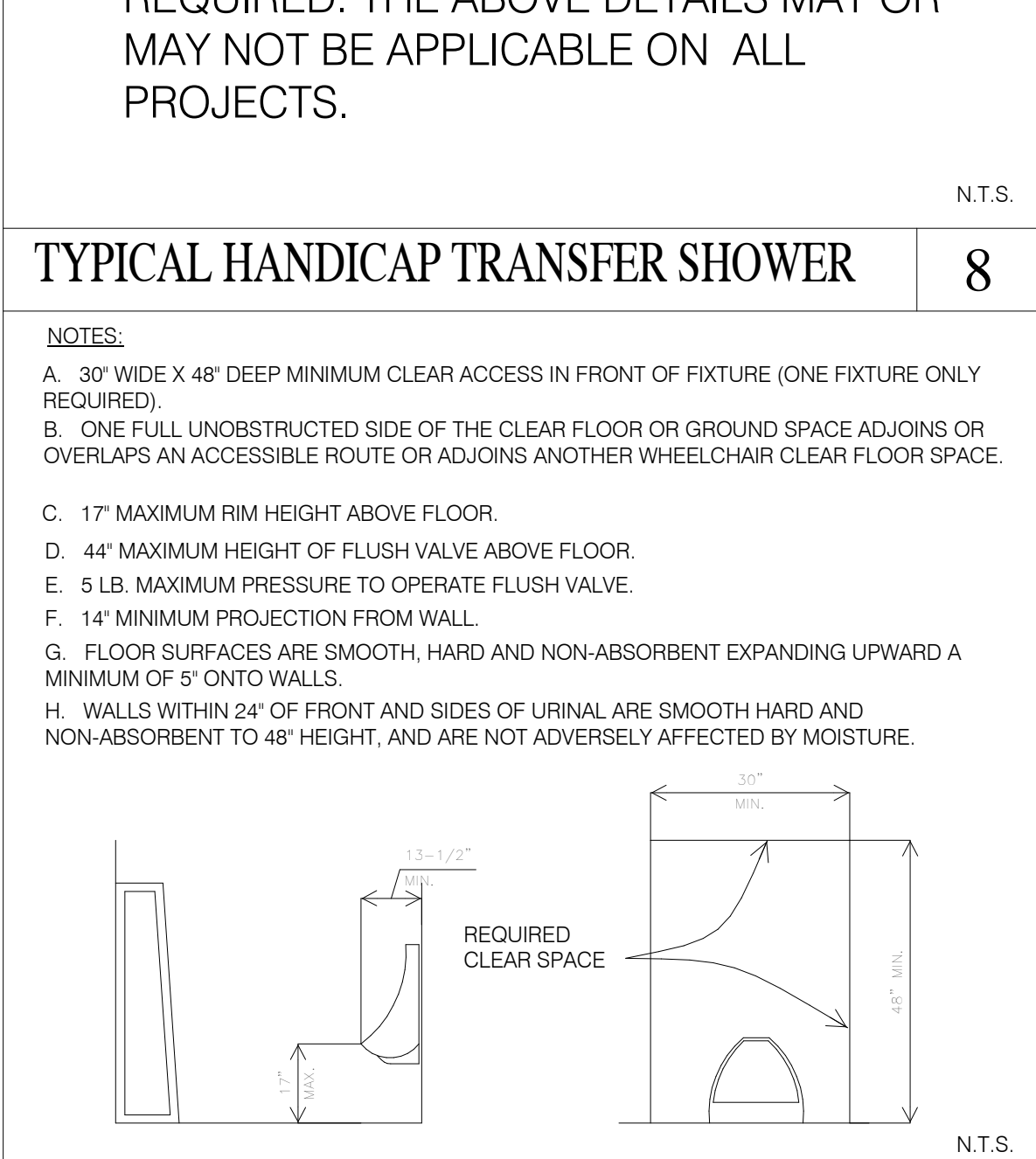
TYPICAL WHEELCHAIR RAMP 4



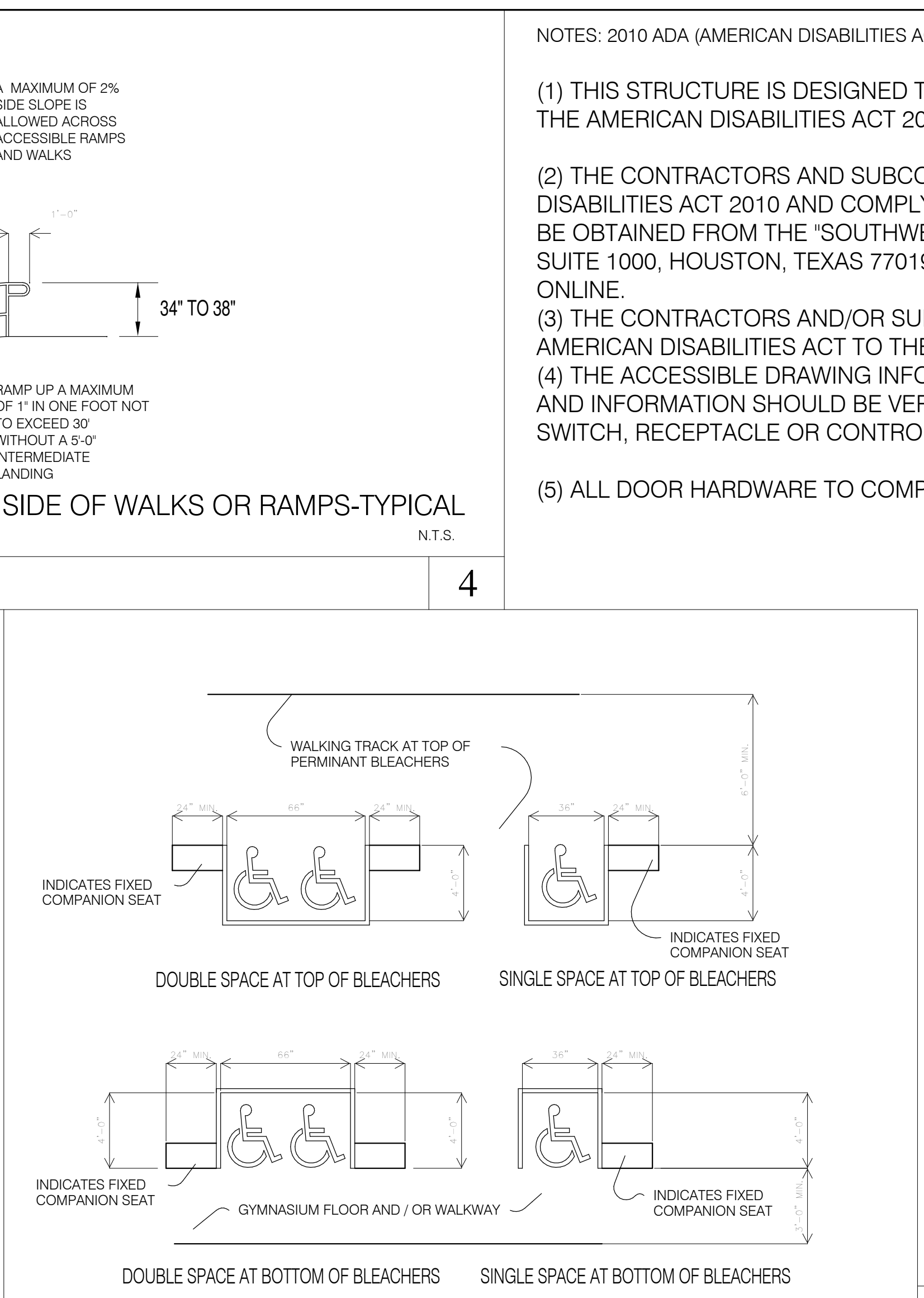
TYPICAL HANDICAP TRANSFER SHOWER 8



SINKS (LAVATORY) 7



ACCESSIBLE STALL 3



TYPICAL WHEEL CHAIR SEATING SPACES 5

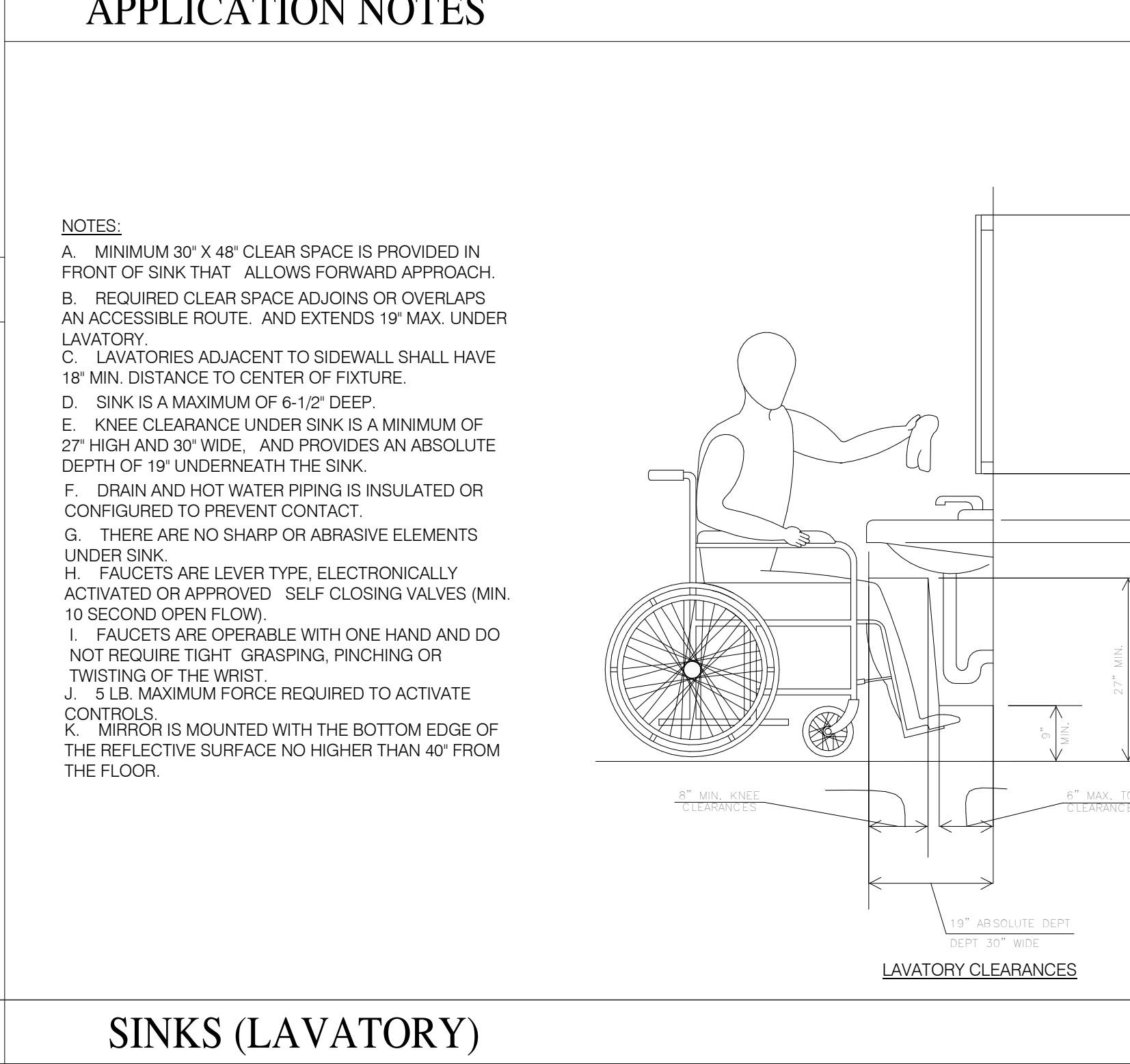
IMPORTANT NOTES:

1. THIS INFORMATION PROVIDED ON THIS SHEET REPRESENTS SOME LIMITED ADA STANDARD GUIDELINES FOR ACCESSIBILITY AND ALSO CONSTRUCTION STANDARDS FOR THIS PROJECT. ITEMS SHOWN ARE NOT NECESSARILY INCLUDED IN THE PROJECT. BUT ANY ITEM INCLUDED ON THE PLAN OR SPECIFICATIONS MUST BE CONSTRUCTED TO THE STANDARDS SHOWN AS WELL AS ANY OTHER STANDARDS AS DETAILED WITHIN THESE DOCUMENTS. FOR EXAMPLE IF A PROJECT HAS NO CAR PARKING AREA SHOWN WITHIN THESE DOCUMENTS THEN DISREGARD THE PARKING INFORMATION GIVEN HERE.

2. IF ANY FURTHER QUESTIONS MAY ARISE CONTRACTOR IS TO CONSULT WITH THE FULL 2010 ADA GUIDELINES, AVAILABLE ONLINE, AND THE ARCHITECT BEFORE CONSTRUCTING ANY FEATURE THAT MAY HAVE ACCESSIBILITY ISSUES.

APPLICATION NOTES 6

N.T.S.



NOTES: 2010 ADA (AMERICAN DISABILITIES ACT)

(1) THIS STRUCTURE IS DESIGNED TO COMPLY WITH THE AMERICAN DISABILITIES ACT 2010 AND MEETS ALL OF THE REQUIREMENTS OF THE AMERICAN DISABILITIES ACT 2010 TO THE BEST OF THE ARCHITECT'S KNOWLEDGE.

(2) THE CONTRACTORS AND SUBCONTRACTORS WILL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE AMERICAN DISABILITIES ACT 2010 AND COMPLYING WITH THE REQUIREMENTS OF THIS ACT. A COPY OF THE AMERICAN DISABILITIES ACT 2010 CAN BE OBTAINED FROM THE "SOUTHWEST DISABILITY AND BUSINESS TECHNICAL ASSISTANCE CENTER FOR REGION VI, 2323 S. SHEPHERD SUITE 1000, HOUSTON, TEXAS 77019. PHONE: 1-800-949-4232, OR ONLINE.

(3) THE CONTRACTORS AND/OR SUBCONTRACTORS SHOULD BRING ANY DISCREPANCIES IN THE PLANS AND SPECIFICATIONS AND THE AMERICAN DISABILITIES ACT TO THE ATTENTION OF THE ARCHITECT BEFORE THE BIDDING PROCESS FOR CLARIFICATION.

(4) THE ACCESSIBLE DRAWING INFORMATION PROVIDED ON THESE SHEETS ARE TO BE USED FOR REFERENCE ONLY. ALL DIMENSIONS AND INFORMATION SHOULD BE VERIFIED WITH THE 2010 ADA GUIDELINES BEFORE INSTALLATION OF ANY FIXTURE, GRAB BAR, MIRROR, SWITCH, RECEPTACLE OR CONTROL THAT IS SHOWN OR NOT SHOWN ON THESE DRAWINGS.

(5) ALL DOOR HARDWARE TO COMPLY WITH THE 2010 AMERICAN DISABILITIES ACT REQUIREMENTS.

MOUNTING SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THRU 12

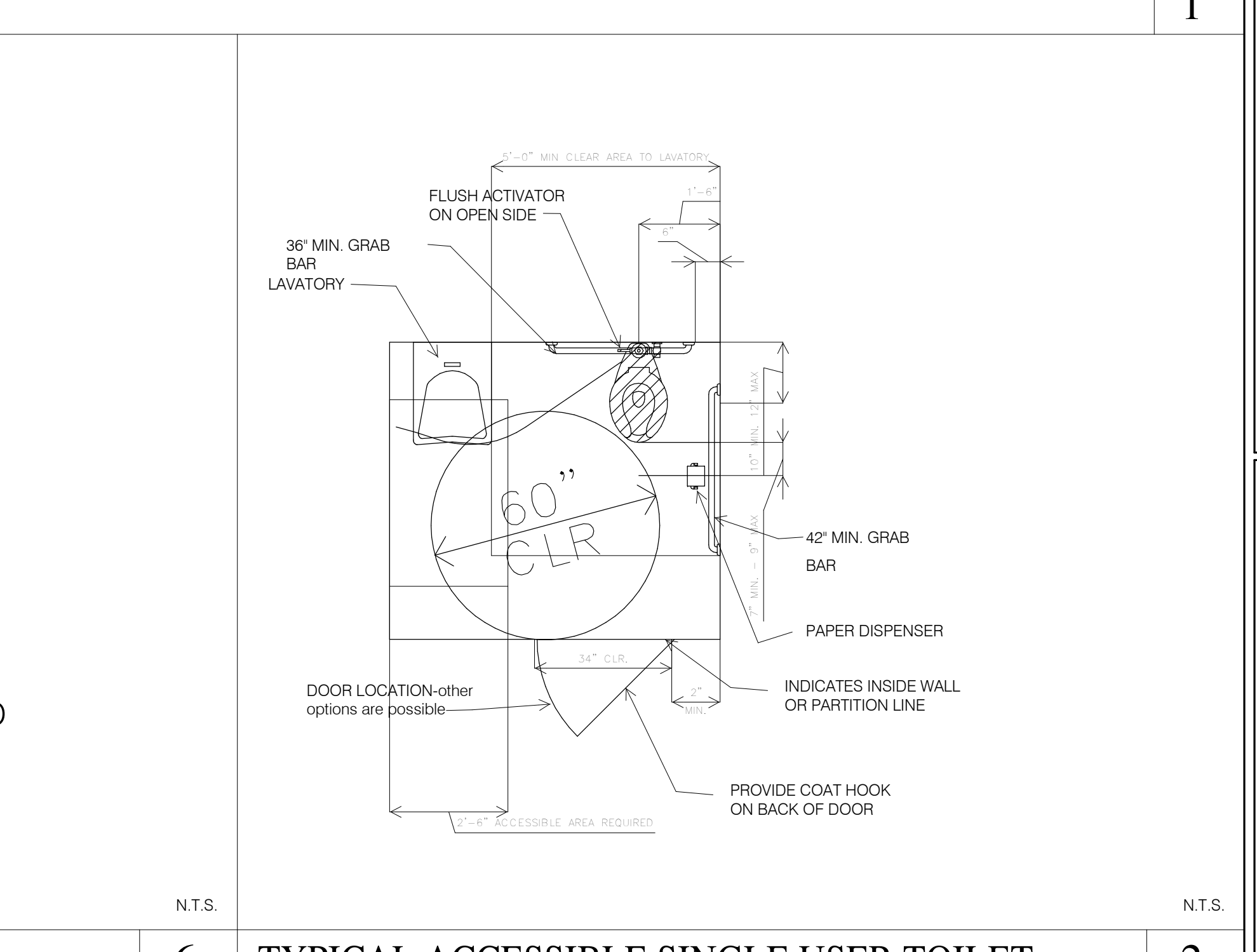
	AGES 3 AND 4 YEARS	AGES 5 THRU 8 YEARS	AGES 9 THRU 12 YEARS
WATER CLOSET CENTERLINE FROM WALL	12" (305 MM)	12" TO 15" (305 TO 380 MM)	15" TO 18" (380 TO 455 MM)
TOILET SEAT HEIGHT	11" TO 12" (280 TO 305 MM)	12" TO 15" (305 TO 380 MM)	15" TO 17" (380 TO 430 MM)
GRAB BAR HEIGHT	18" TO 20" (455 TO 510 MM)	20" TO 25" (510 TO 635 MM)	25" TO 27" (635 TO 685 MM)
DISPENSER HEIGHT	14" (355 MM)	14" TO 17" (355 TO 430 MM)	17" TO 19" (430 TO 485 MM)

THE FOLLOWING TABLE PROVIDES GUIDANCE ON REACH RANGES FOR CHILDREN ACCORDING TO AGE WHERE BUILDING ELEMENTS SUCH AS COAT HOOKS, LOCKERS, OR OPERABLE PARTS ARE DESIGNED FOR USE PRIMARILY BY CHILDREN. THESE DIMENSIONS APPLY TO EITHER FORWARD OR SIDE REACHES. ACCESSIBLE ELEMENTS AND OPERABLE PARTS DESIGNED FOR ADULT USE OR CHILDREN OVER AGE 12 CAN BE LOCATED OUTSIDE THESE RANGES BUT MUST BE WITHIN THE ADULT REACH RANGES REQUIRED BY 308.

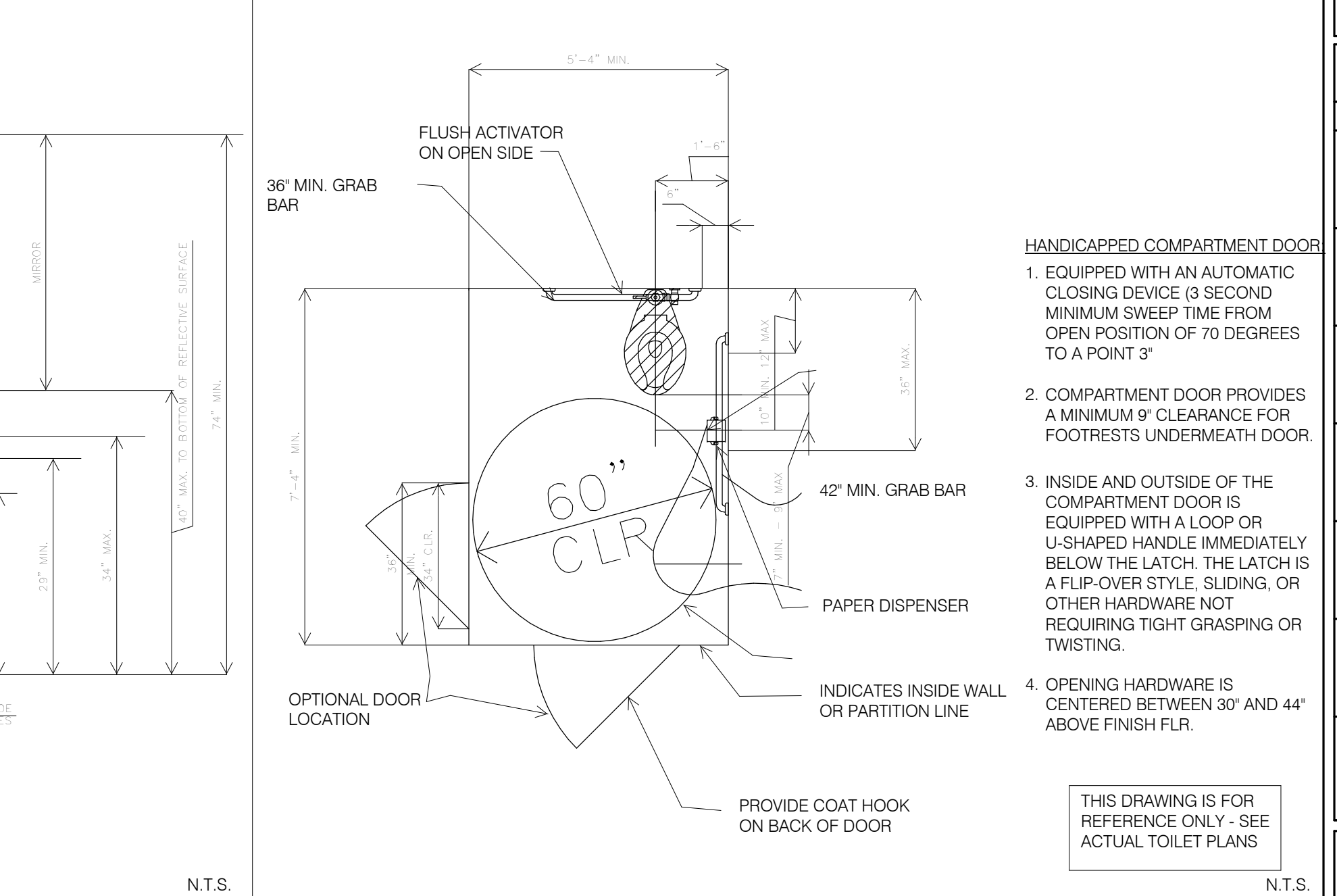
CHILDREN'S REACH RANGES (FORWARD OR SIDE REACH)

	AGES 3 AND 4 YEARS	AGES 5 THRU 8 YEARS	AGES 9 THRU 12 YEARS
High (maximum)	36 in (915 mm)	40 in (1015 mm)	44 in (1120 mm)
Low (minimum)	20 in (510 mm)	18 in (455 mm)	16 in (405 mm)

MOUNTING SPECIFICATIONS FOR WATER CLOSETS SERVING CHILDREN AGES 3 THRU 12 1



TYPICAL ACCESSIBLE SINGLE USER TOILET 2



ACCESSIBLE STALL 3

ARCHITECT OF RECORD  
ANDREW F. HICKS

ARCHITECT  
ANDREW F. HICKS  
NO. C-259  
12-27-2020  
ARKANSAS

A NEW CAFETERIA AND MULTI-PURPOSE ROOM  
FOR  
HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

Project Number: 1920-3809-001

andrew hicks | architect  
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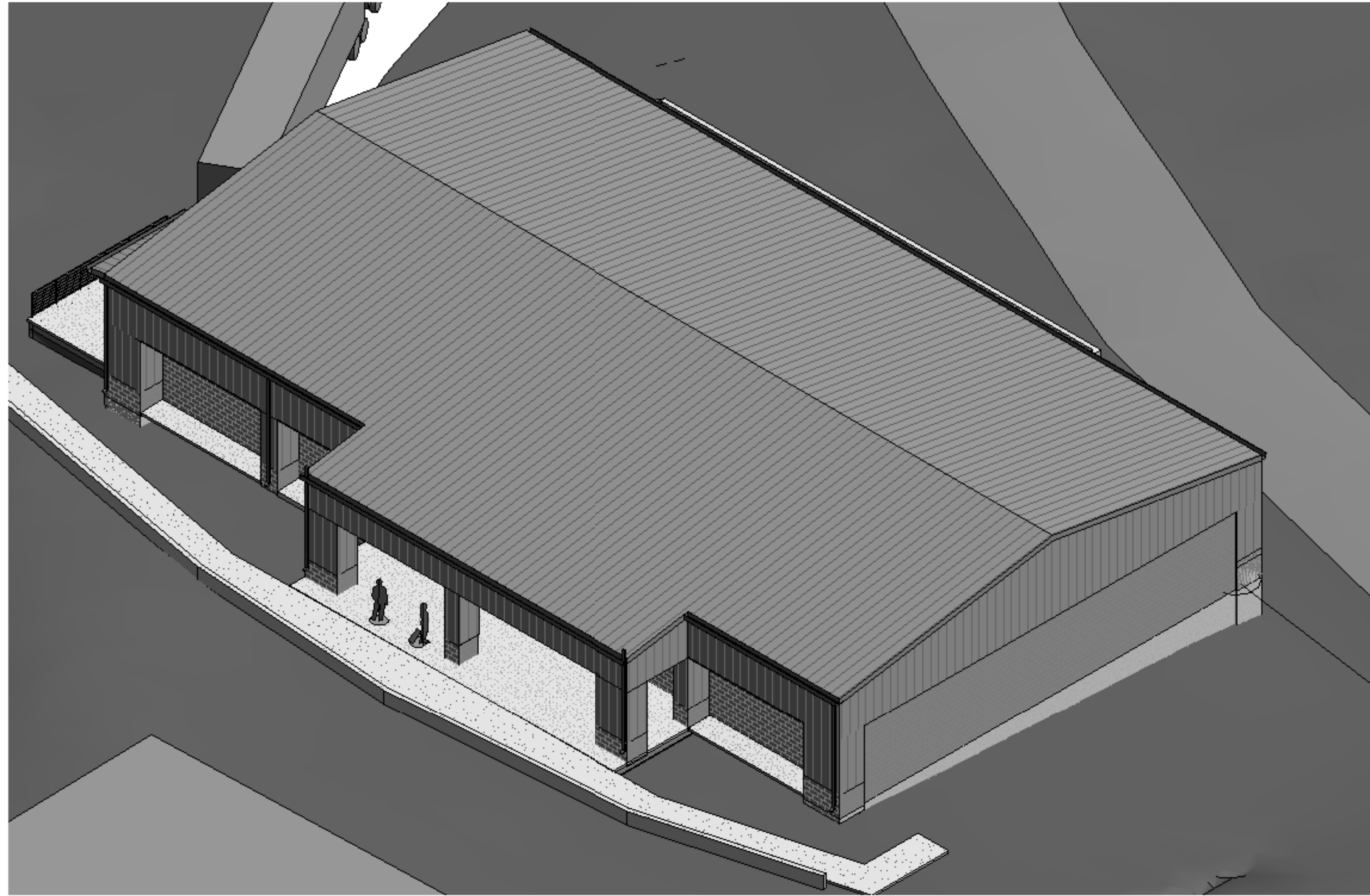
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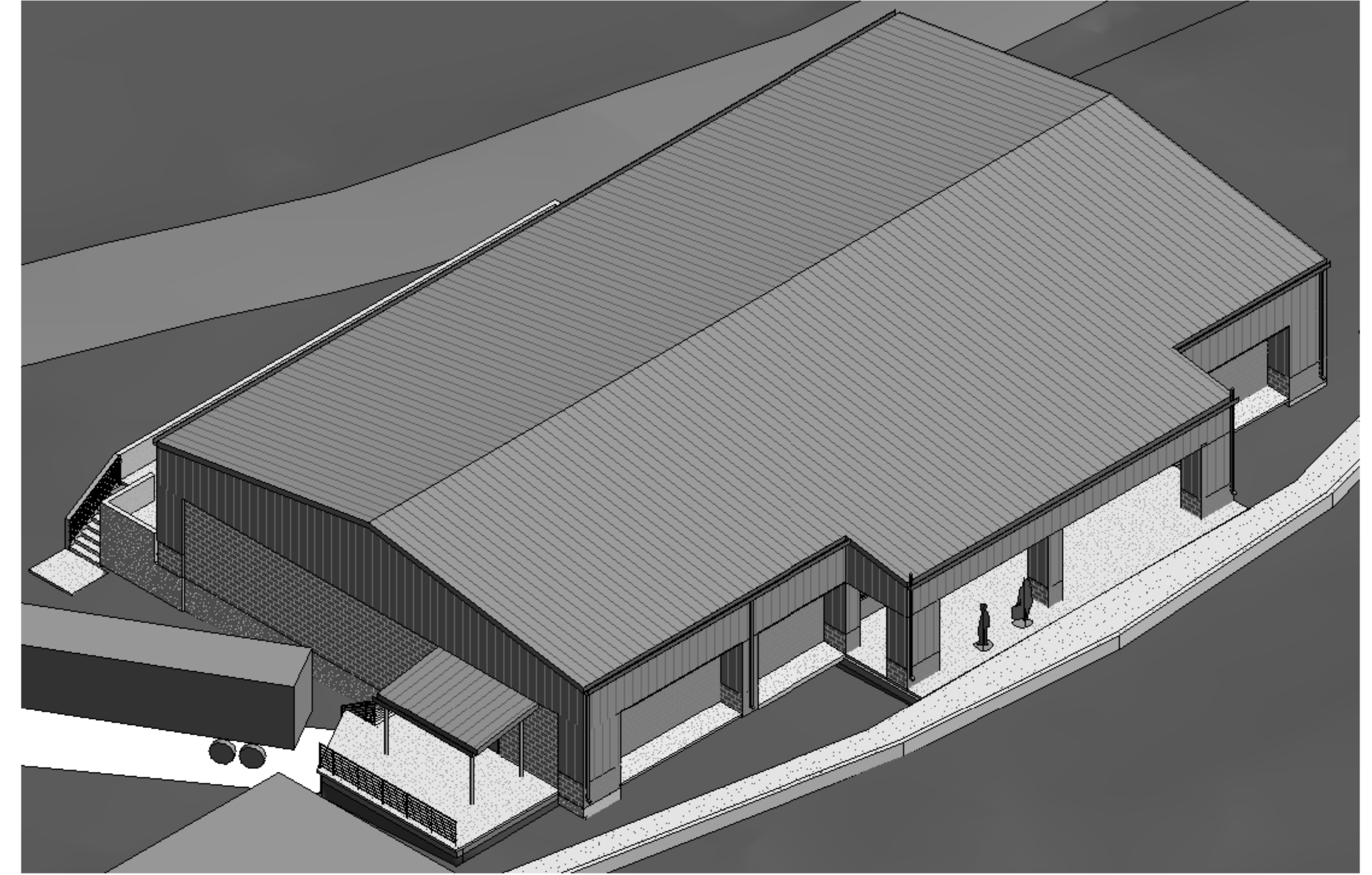
ADA GUIDELINES & DETAILS

A002



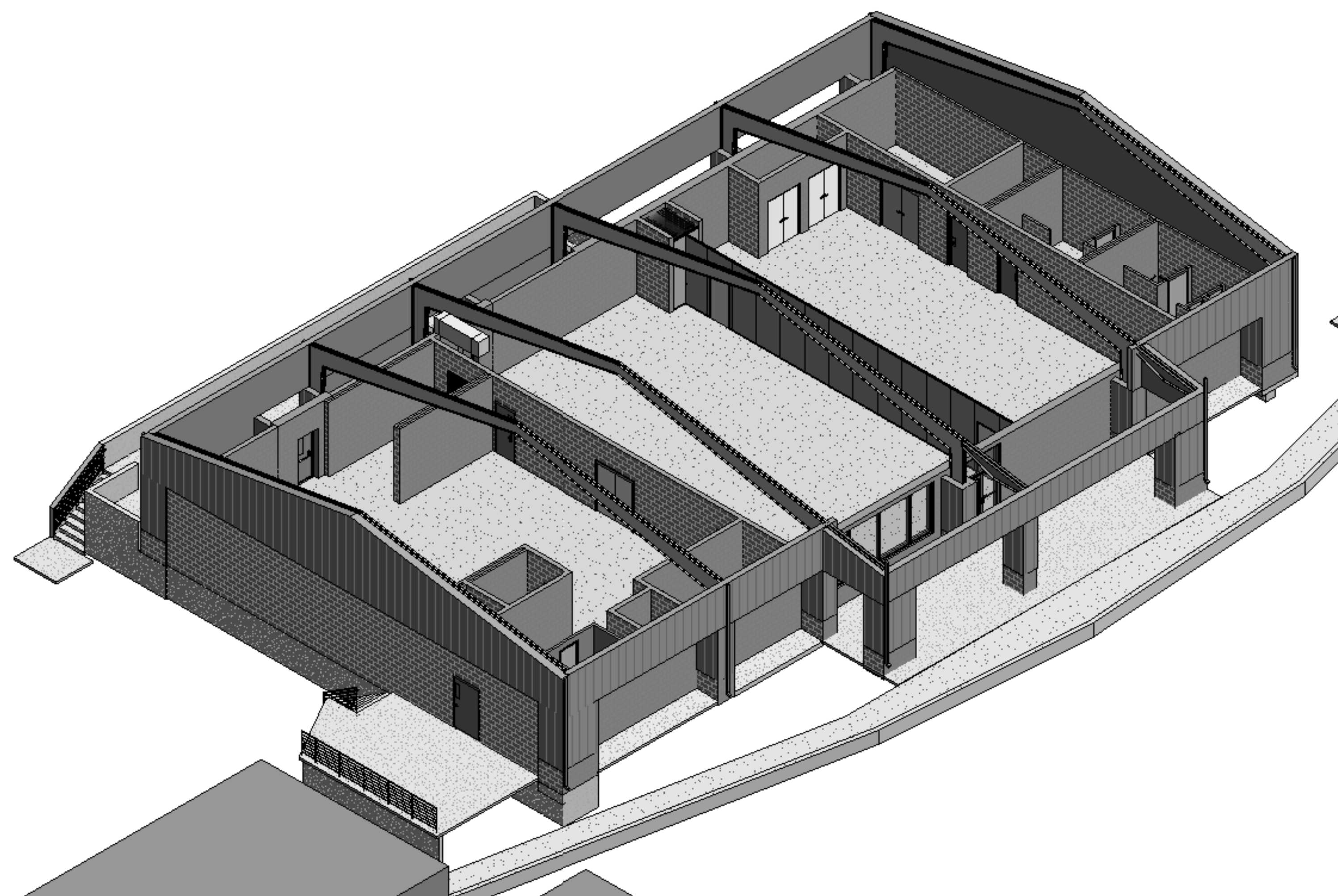


② 3D- FROM NORTHEAST

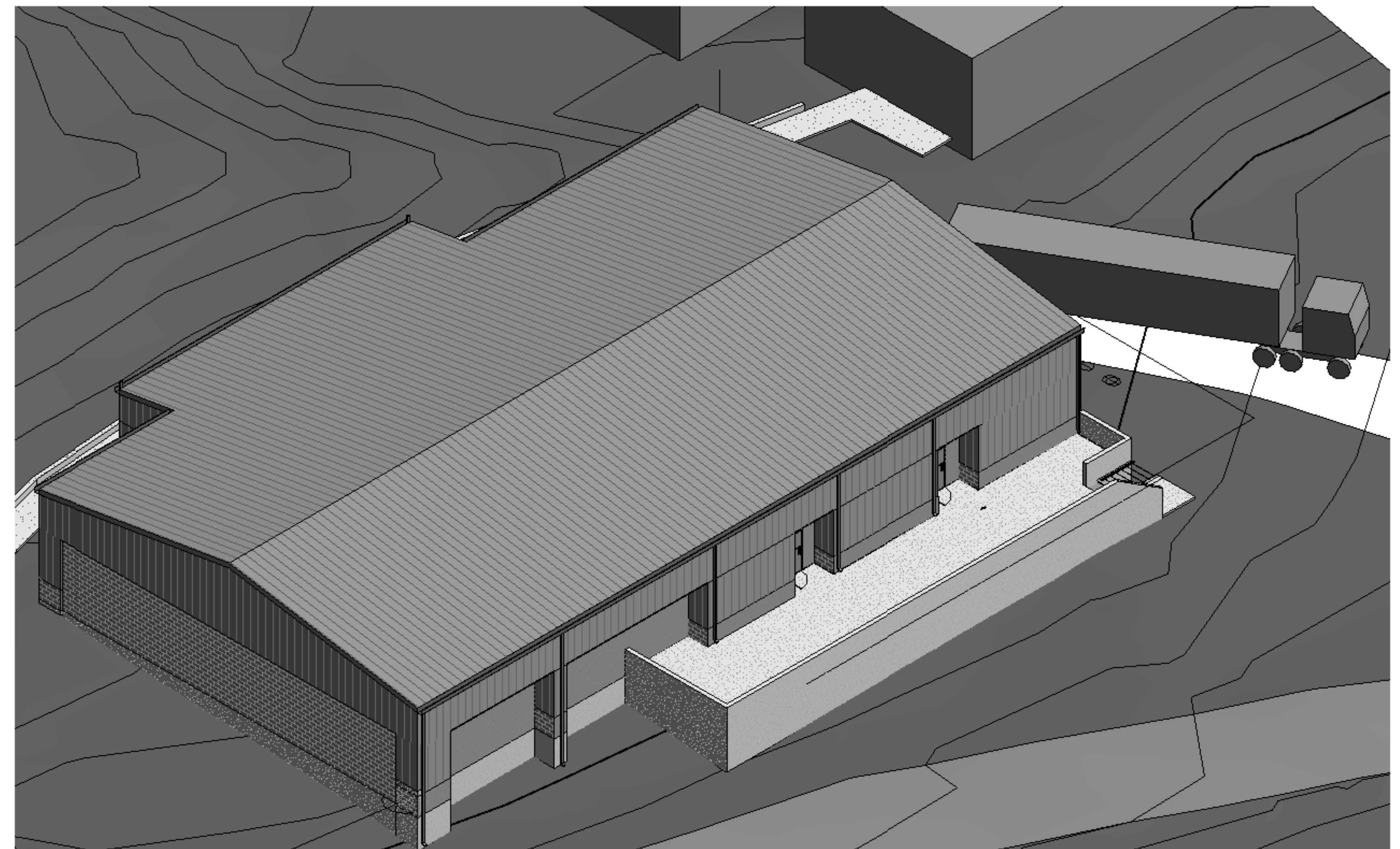


① 3D- FROM SOUTHEAST

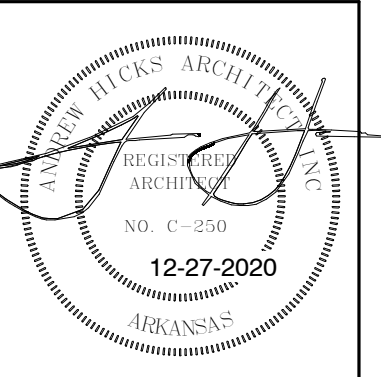
**THE PROJECT VIEW ON THIS SHEET IS FOR GENERAL PROJECT CONCEPT INFORMATION ONLY AND IS NOT INTENDED TO CONVEY PRECISE OR THOROUGH INFORMATION FOR BIDDING**



③ 3D VIEW -WITH NO METAL ROOF



④ 3D- FROM NORTHWEST



ARCHITECT OF RECORD  
ANDREW F. HICKS

**A NEW CAFETERIA AND MULTI-PURPOSE ROOM**

Project Number: 1920-3809-001  
FOR  
HILLCREST SCHOOL DISTRICT

HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

**andrew hicks | architect**

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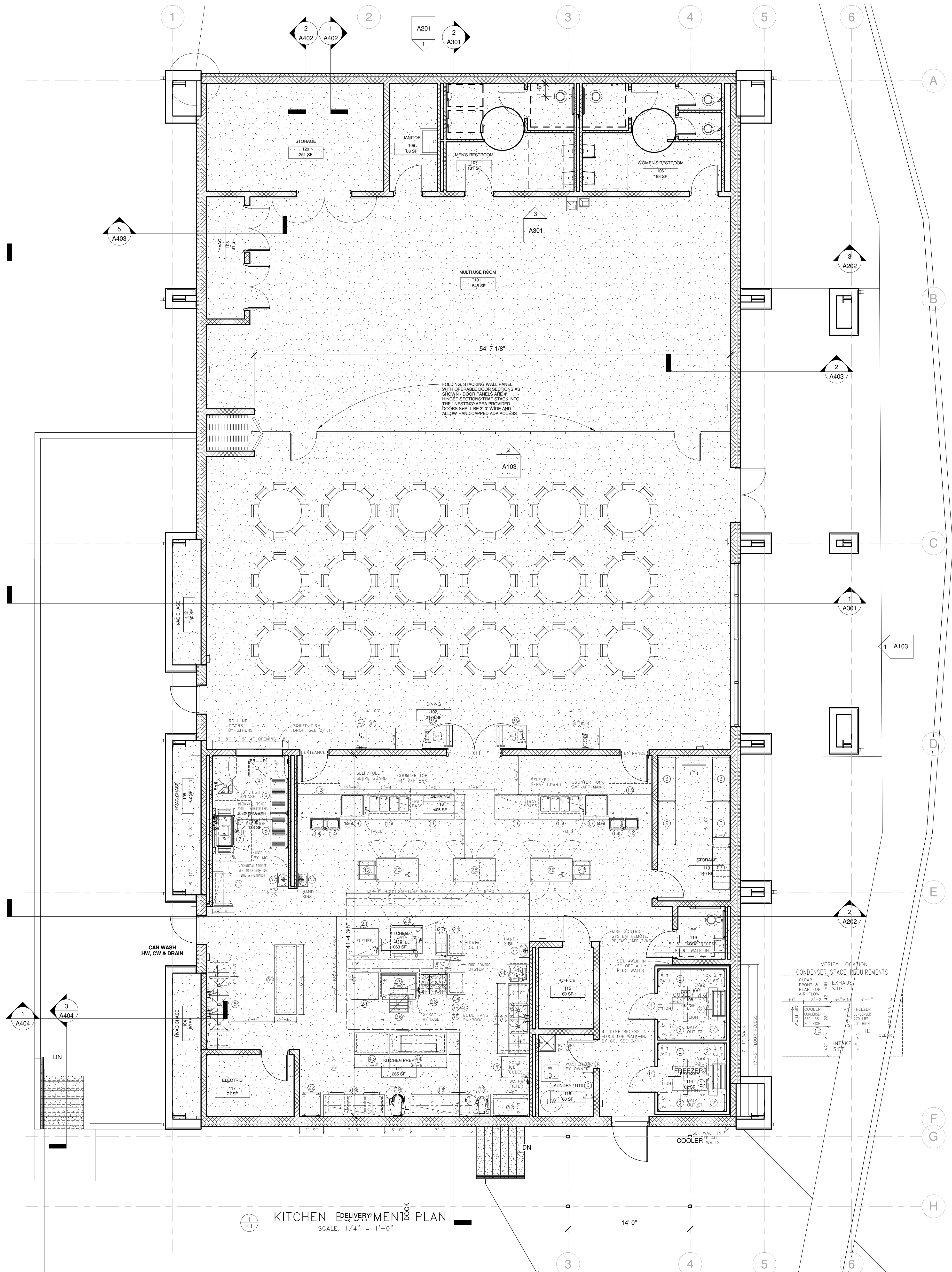
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3D VIEWS-HS- STRAWBERRY CAMPUS



ROOM AREA SCHEDULE			
Number	Name	Area	Comments
101	MULTI USE ROOM	1548 SF	
102	DINING	2178 SF	
103	HVAC	61 SF	
104	HVAC CHASE	60 SF	
105	DISHWASH	133 SF	
105	HVAC CHASE	62 SF	
106	WOMEN'S RESTROOM	198 SF	
107	MEN'S RESTROOM	181 SF	
108	COOLER	64 SF	
109	JANITOR	68 SF	
110	KITCHEN	1063 SF	
111	KITCHEN PREP	265 SF	
112	HVAC CHASE	50 SF	
113	STORAGE	140 SF	
114	FREEZER	62 SF	
115	OFFICE	60 SF	
116	LAUNDRY / UTIL	60 SF	
117	ELECTRIC	71 SF	
118	SERVING	405 SF	
119	RR	33 SF	
120	STORAGE	251 SF	
121	SPRINKLER RISER	Not Placed	



7,683 SF GROSS FLOOR AREA

FLOOR PLAN - EQUIPMENT  
3/16" = 1'-0"



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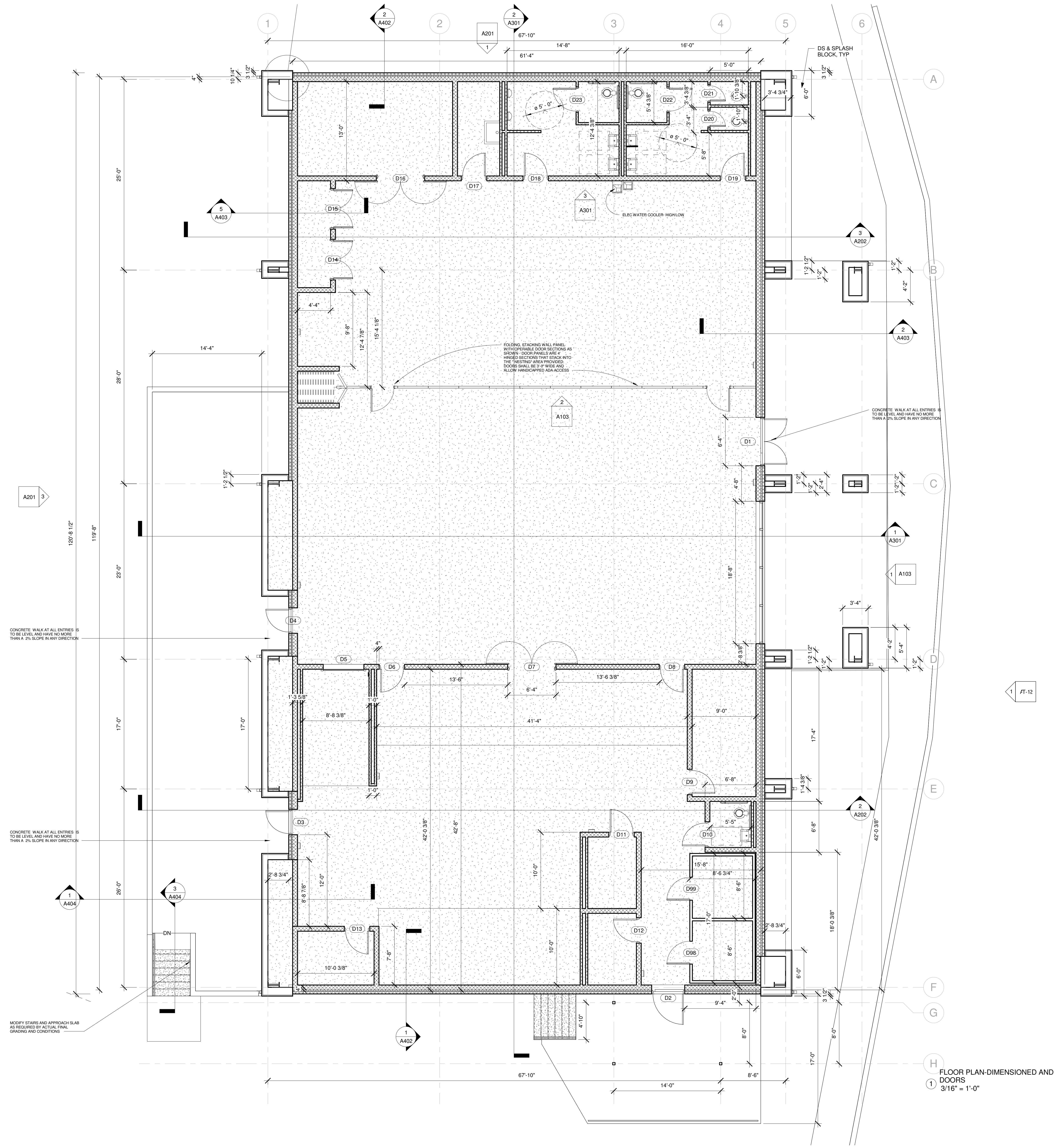
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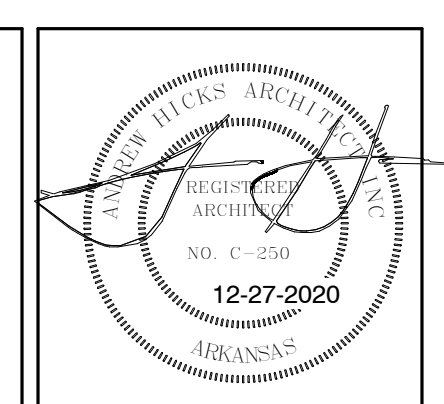
FLOOR PLAN - EQUIPMENT  
**A100**

**WALL CONSTRUCTION AND INSULATION NOTES**  
 1. ALL DIMENSIONS ARE FROM EDGE OF NOMINAL CMU BLOCK OR STRUCTURAL GRID CENTERLINE OR OUTSIDE OF STRUCTURAL STEEL, OR EDGE OF LIGHT GAUGE ROUGH FRAMING, UNLESS OTHERWISE INDICATED.  
 2. CONTRACTOR TO ALLOW FOR ACTUAL BLOCK WIDTH OF 3/8" LESS THAN THE NOMINAL WIDTH.

**INSULATION NOTES**  
 1. ALL EXTERIOR AND INTERIOR CMU BLOCK WALLS ARE TO BE INSULATED TO TOP OF WALL IN ALL CELLS THAT ARE NOT GROUTED FULL.  
 2. NO INSULATION IS TO BE INSTALLED DIRECTLY ABOVE THE CEILING. ALL HORIZONTAL INSULATION ABOVE CEILING IS TO BE INSTALLED AT THE ROOF LEVEL AS A FABRIC AND LINER SYSTEM WITH UNFACED FIBERGLASS INSULATION INSTALLED IN A THICKNESS TO MATCH THE ROOF PURLIN DEPTH. (A SIMPLE SAVER SYSTEM OR EQUAL).  
 3. INSULATE ALL WALLS ABOVE CEILING INCLUDING REST ROOM & OFFICE WALLS AND SMOKE PARTITIONS W/ FIBERGLASS BATT INSULATION (SOUND BATT) AS REQUIRED BY WALL THICKNESS. IF THESE WALLS ARE CMU INSULATE ACCORDINGLY.



FLOOR PLAN-DIMENSIONED AND DOORS  
 3/16" = 1'-0"



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FLOOR PLAN-DIMENSIONS AND DOORS AND WINDOWS

**A101**



ROOM FINISH SCHEDULE				
NO.	NAME	FINISH KEY	CEILING HEIGHT	COMMENTS
101	MULTI USE ROOM	A	10'-0"	
102	DINING	A	10'-0"	
103	HVAC	E	NONE	
104	HVAC CHASE	E	NONE	
105	DISHWASH	C	9'-0"	
105	HVAC CHASE	E	NONE	
106	WOMEN'S RESTROOM	D	8'-8"	
107	MEN'S RESTROOM	D	8'-8"	
108	COOLER	MFR		
109	JANITOR	C	10'-0"	
110	KITCHEN	C	9'-0"	
111	KITCHEN PREP	C	9'-0"	
112	HVAC CHASE	E	NONE	
113	STORAGE	C	9'-0"	
114	FREEZER	MFR		
115	OFFICE	C	8'-8"	
116	LAUNDRY / UTIL	C	8'-8"	
117	ELECTRIC	E	NONE	
118	SERVING	C	9'-0"	
119	RR	D	8'-8"	
120	STORAGE	A	10'-0"	
121	SPRINKLER RISER	E	NONE	

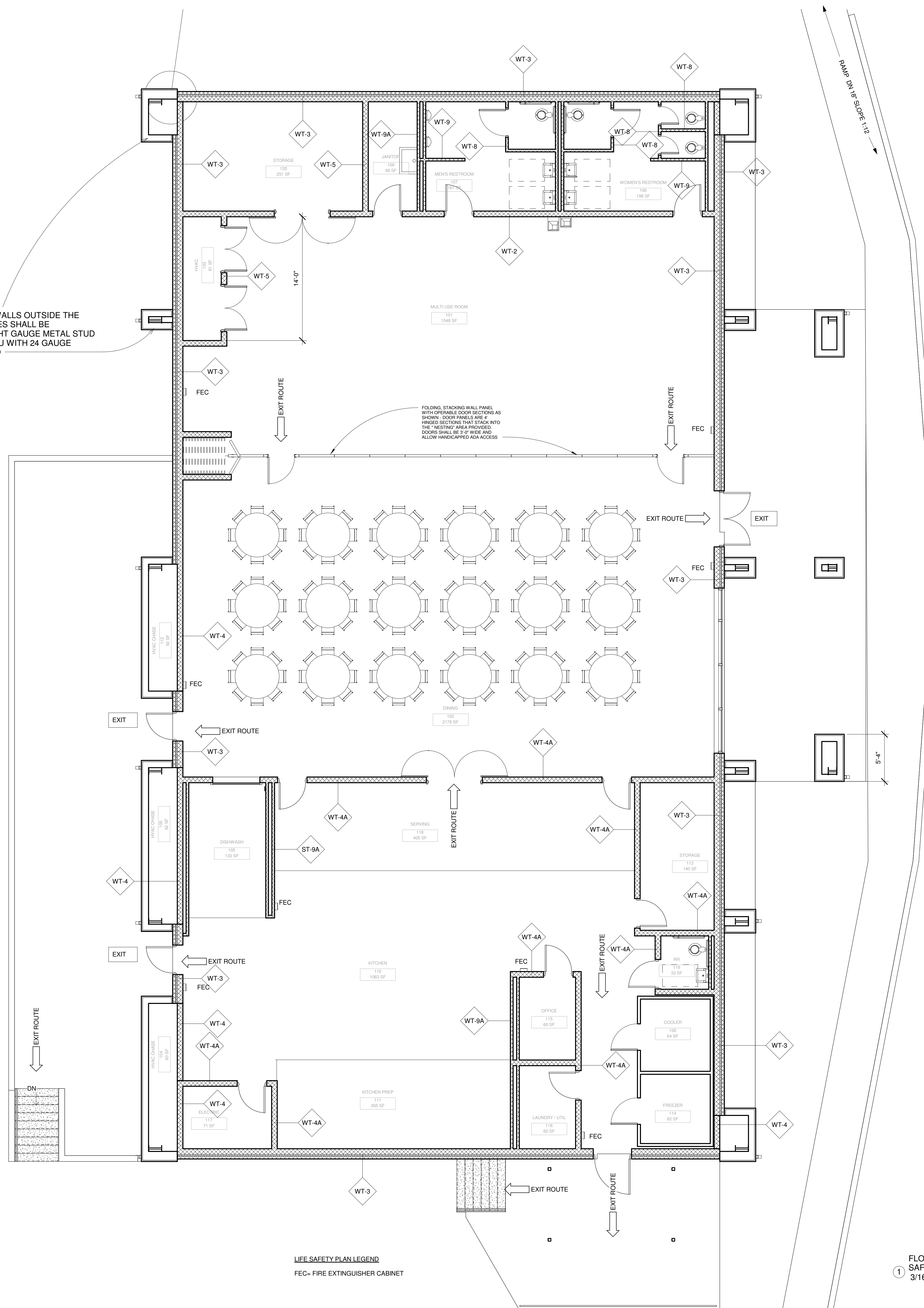
**FINISH LEGEND**

- A** FLOOR: POLISHED CONCRETE- SEE SPECIFICATIONS.  
BASE: 4" RUBBER BASE 1/8" THICK. CUT BASE FLUSH WITH THE WALL AT DOORS AND PAINT THE BLOCK RETURN TO MATCH THE BASE AT DOOR FRAME.  
WALLS: CMU BLOCK WITH BLOCK FILLER and/or TAPED AND FLOATED 5/8" GYP. BD. -AND 2 COATS LATEX ENAMEL PAINT ON ALL TO ABOVE CEILING.  
CEILING: 2'-0" X 2'-0" SUSPENDED ACOUSTICAL TILE SET IN 2'-0" X 2'-0" WHITE GRID. (ALL ROOMS TO HAVE FLAT CEILINGS-SEE BUILDING SECTIONS)
- B** FLOOR: 12" SQUARE VCT-COLOR TO BE SELECTED BY OWNER.  
BASE: 4" RUBBER BASE 1/8" THICK. CUT BASE FLUSH WITH THE WALL AT DOORS AND PAINT THE BLOCK RETURN TO MATCH THE BASE AT DOOR FRAME.  
WALLS: CMU BLOCK WITH BLOCK FILLER and/or TAPED AND FLOATED 5/8" GYP. BD. -AND 2 COATS LATEX ENAMEL PAINT ON ALL TO ABOVE CEILING. PROVIDE ALUMINUM REVEAL TRANSITION STRIPS AT INTERSECTION OF GYP BD WALLS AND CMU WALLS.  
CEILING: 2'-0" X 2'-0" SUSPENDED ACOUSTICAL TILE SET IN 2'-0" X 2'-0" WHITE GRID. (ALL ROOMS TO HAVE FLAT CEILINGS-SEE BUILDING SECTIONS)
- C** FLOOR: POURED EPOXY FLOOR - COLOR TO BE SELECTED BY OWNER)  
BASE: 6" EPOXY BASE (SEE SPECIFICATIONS FOR FLOOR AND BASE).  
WALLS: CMU BLOCK WITH BLOCK FILLER and/or TAPED AND FLOATED 5/8" GYP. BD. -AND 2 COATS LATEX ENAMEL PAINT ON ALL TO ABOVE CEILING.  
CEILING: 2'-0" X 4'-0" SUSPENDED VINYL COVERED CEILING TILE SET IN 2'-0" X 4'-0" WHITE GRID.
- D** FLOOR: POURED EPOXY FLOOR - COLOR TO BE SELECTED BY OWNER)  
BASE: 6" EPOXY BASE (SEE SPECIFICATIONS FOR FLOOR AND BASE).  
WALLS: CMU BLOCK WITH BLOCK FILLER and/or TAPED AND FLOATED 5/8" GYP. BD. -AND 2 COATS LATEX ENAMEL PAINT ON ALL TO ABOVE CEILING.  
CEILING: 2'-0" X 2'-0" SUSPENDED ACOUSTICAL TILE SET IN 2'-0" X 2'-0" WHITE GRID. (ALL ROOMS TO HAVE FLAT CEILINGS-SEE BUILDING SECTIONS)
- E** FLOOR: CONCRETE, SMOOTH FINISH- NOT POLISHED  
BASE: NO BASE  
WALLS: CMU BLOCK WITH BLOCK FILLER AND 2 COATS LATEX ENAMEL PAINT ON ALL TO ABOVE CEILING.  
CEILING: NO CEILING

- FINISH NOTES:**
1. CMU INTERIOR WALLS THAT ARE INDICATED TO BE PAINTED ON FINISH SCHEDULE ARE TO BE BLOCK FILLED AND PRIMED AND PAINTED (MIN. TWO COATS) WITH LATEX ENAMEL FINISH.
  2. PAINT ALL EXPOSED MISC STEEL AND HANDRAILS PER SPECIFICATIONS.
  4. SEE REFLECTED CEILING PLAN FOR CEILING GRID LAYOUT AND CEILING HEIGHTS IN EACH ROOM
  2. ALL COLORS WILL BE SELECTED BY THE OWNER UNLESS OTHERWISE NOTED ON PLANS OR SPECIFIED IN THE SPECIFICATIONS. ALL HEAT CLOSETS, UTILITY CLOSETS ETC. WILL RECEIVE THE SAME ROOM FINISH AS THE ROOM THEY ARE LOCATED IN UNLESS OTHERWISE NOTED.
  3. THE CONTRACTOR WILL PROVIDE CURRENT MATERIAL SAMPLES AND COLOR CHARTS TO THE OWNER FOR THEIR SELECTION. DO NOT PROVIDE OUTDATED SAMPLES AND OR COLOR CHARTS FOR SELECTIONS.

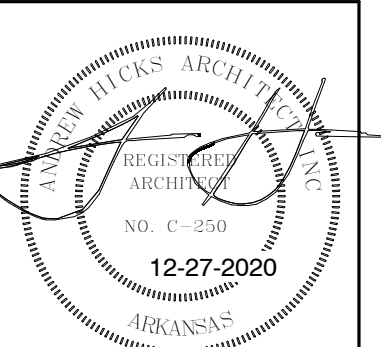
② FINISH NOTES  
12" = 1'-0"

THESE SECTIONS OF WALLS OUTSIDE THE CMU WALL ENCLOSURES SHALL BE CONSTRUCTED OF LIGHT GAUGE METAL STUD WALLS ABOVE THE CMU WITH 24 GAUGE METAL SKIN ATTACHED



**LIFE SAFETY PLAN LEGEND**  
FEC= FIRE EXTINGUISHER CABINET

FLOOR PLAN- WALL TYPE AND LIFE SAFETY  
① 3/16" = 1'-0"



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ANDREW F. HICKS

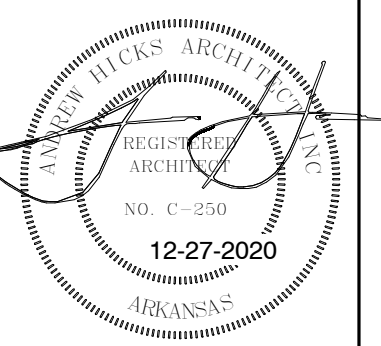
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WALL TYPE / ROOM FINISH AND LIFE SAFETY PLAN  
**A102**



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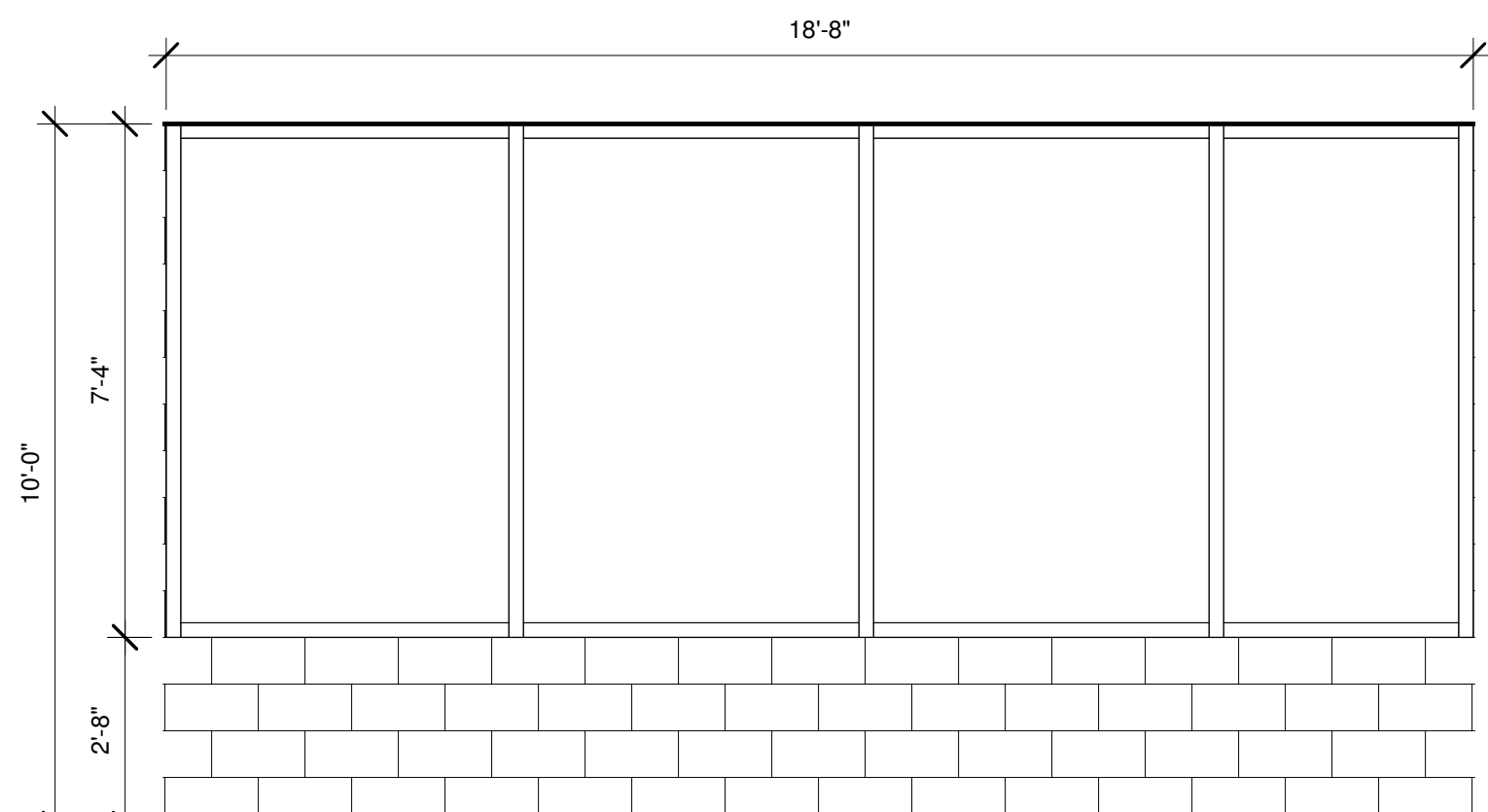
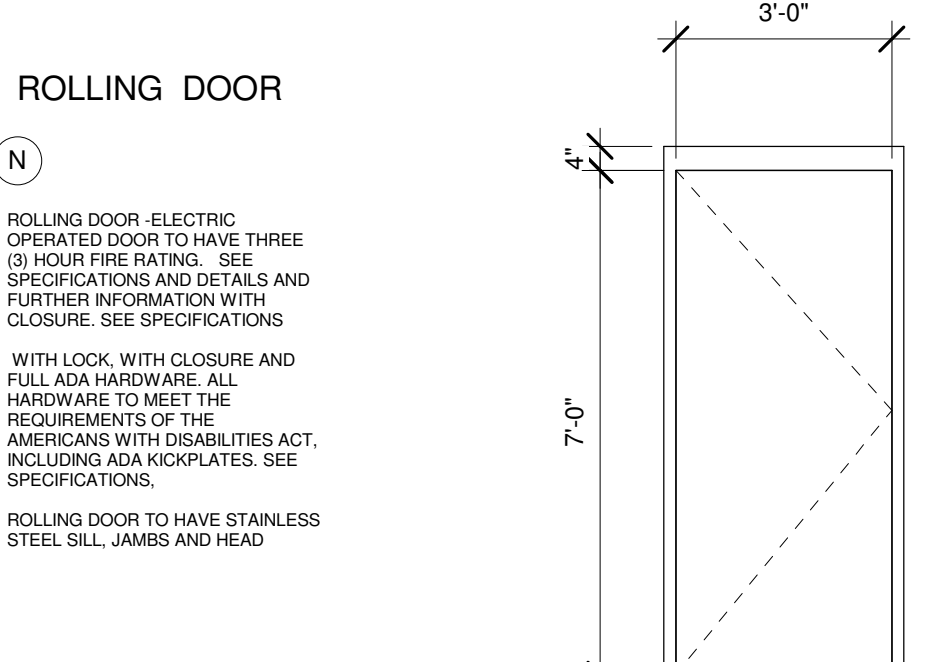
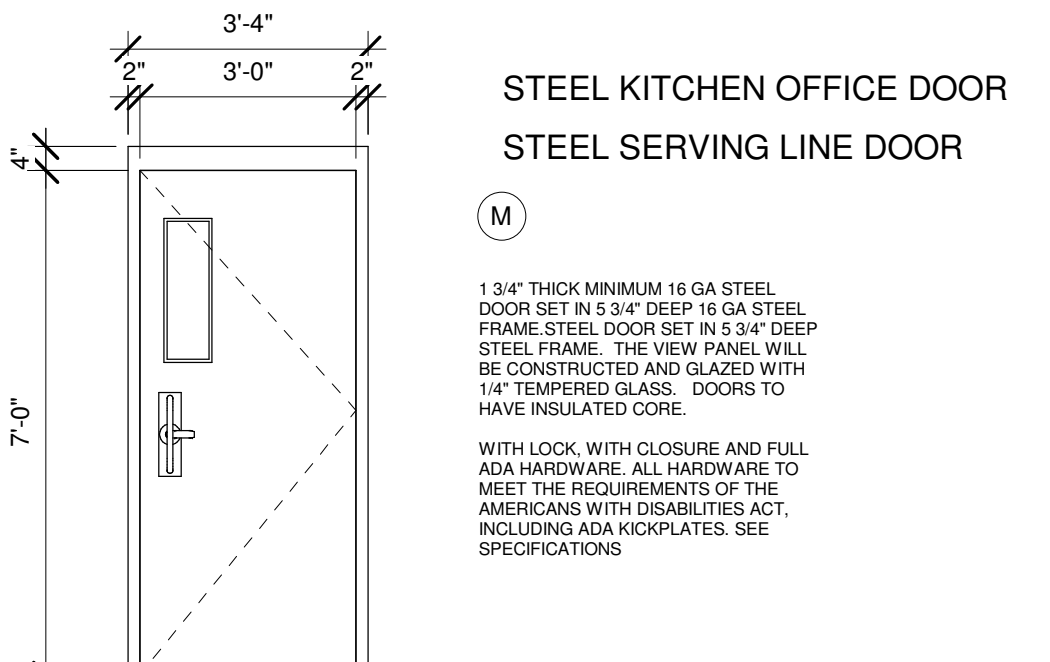
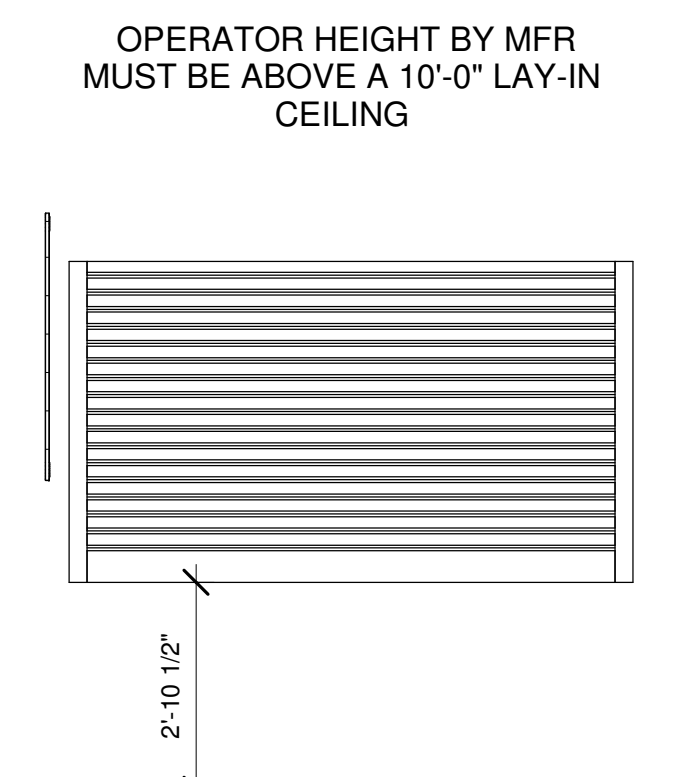
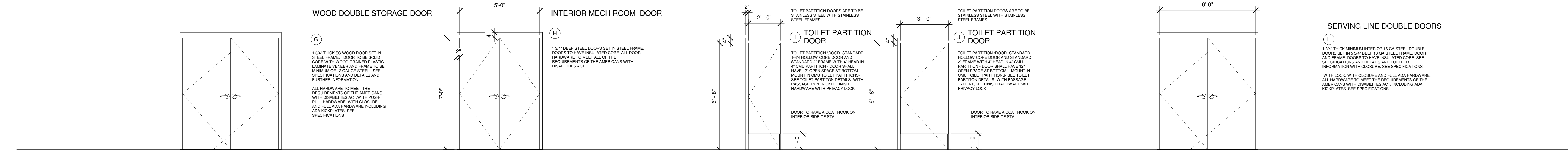
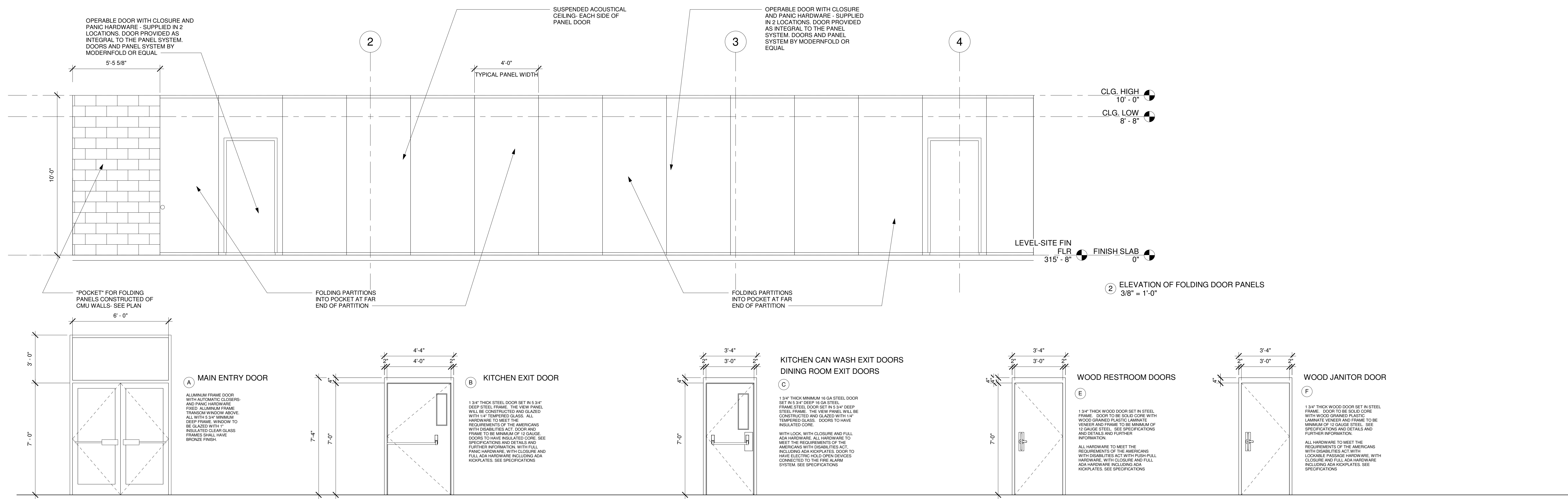
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DOOR SCHEDULE AND ELEVATIONS

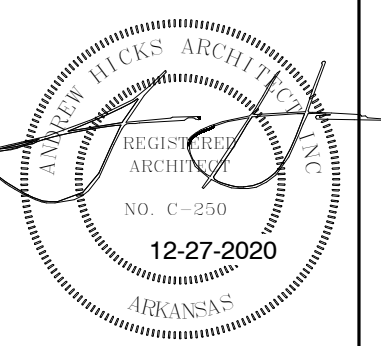
**A103**



DOOR SCHEDULE								
NO.	Type	WIDTH	HEIGHT	THK	TYPE	FIRE RATING	FRAME MAT	COMMENT
D1	DOUBLE ALUMINUM FRAME DOOR 6'-0" x 7'-0" x 10'-0" H. WITH TRANSOM AND PANIC HARDWARE AND CLOSER	3'-0"	7'-0"	1 3/4"	A	NONE		
D2	EXTERIOR 48" X 84" HOLLOW METAL W/ METAL FRAME-VISION PANEL AND PANIC HARDWARE	4'-0"	7'-0"	1 3/4"	B	NONE		
D3	EXTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND PANIC HARDWARE	3'-0"	7'-0"	1 3/4"	C	NONE		
D4	EXTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND PANIC HARDWARE	3'-0"	7'-0"	1 3/4"	C	NONE		
D5	COILING OVERHEAD DOOR - 5'-4" WIDTH	5'-4"	4'-5 1/2"	2"	N	NONE		
D6	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME-VISION PANEL AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	M	NONE		
D7	INTERIOR 72" X 84" DOUBLE HOLLOW METAL W/ METAL FRAME AND LOCKABLE HARDWARE	6'-0"	7'-0"	1 3/4"	L	NONE		
D8	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME-VISION PANEL AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	M	NONE		
D9	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	P	NONE		
D10	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	P	NONE		
D11	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME-VISION PANEL AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	M	NONE		
D12	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	P	NONE		
D13	INTERIOR 36" X 84" HOLLOW METAL W/ METAL FRAME AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	P	NONE		

DOOR SCHEDULE								
NO.	Type	WIDTH	HEIGHT	THK	TYPE	FIRE RATING	FRAME MAT	COMMENT
D14	5'-0" x 7'-0" INTERIOR HOLLOW METAL DOUBLE DOOR WITH HM FRAME	5'-0"	7'-0"	1 3/4"	H	NONE		
D15	5'-0" x 7'-0" INTERIOR HOLLOW METAL DOUBLE DOOR WITH HM FRAME	5'-0"	7'-0"	1 3/4"	H	NONE		
D16	INTERIOR 72" X 84" HOLLOW SC WOOD DOOR W/ METAL FRAME AND LOCKABLE HARDWARE 2	6'-0"	7'-0"	1 3/4"	G	NONE		
D17	INTERIOR 36" X 84" SC WOOD DOOR W/ METAL FRAME AND LOCKABLE HARDWARE	3'-0"	7'-0"	1 3/4"	F	NONE		
D18	INTERIOR 36" X 84" SOLID CORE WOOD W/ METAL FRAME AND PUSH PULL HARDWARE	3'-0"	7'-0"	1 3/4"	E	NONE		
D19	INTERIOR 36" X 84" SOLID CORE WOOD W/ METAL FRAME AND PUSH PULL HARDWARE	3'-0"	7'-0"	1 3/4"	E	NONE		
D20	TOILET STALL SC WOOD 24" x 68". WITH LATCHING HARDWARE - AND 12" OFF FLOOR	2'-0"	6'-8"	1 3/4"	I			
D21	TOILET STALL SC WOOD 24" x 68". WITH LATCHING HARDWARE - AND 12" OFF FLOOR	2'-0"	6'-8"	1 3/4"	I			
D22	TOILET STALL SC WOOD 36" x 68". WITH LATCHING HARDWARE - AND 12" OFF FLOOR	3'-0"	6'-8"	1 3/4"	J			
D23	TOILET STALL SC WOOD 36" x 68". WITH LATCHING HARDWARE - AND 12" OFF FLOOR	3'-0"	6'-8"	1 3/4"	J			
D98	NEW COOLER DOOR	3'-0"	7'-0"	1 3/4"	OOO	NONE		
D99	NEW COOLER DOOR	3'-0"	7'-0"	1 3/4"	OOO	NONE		





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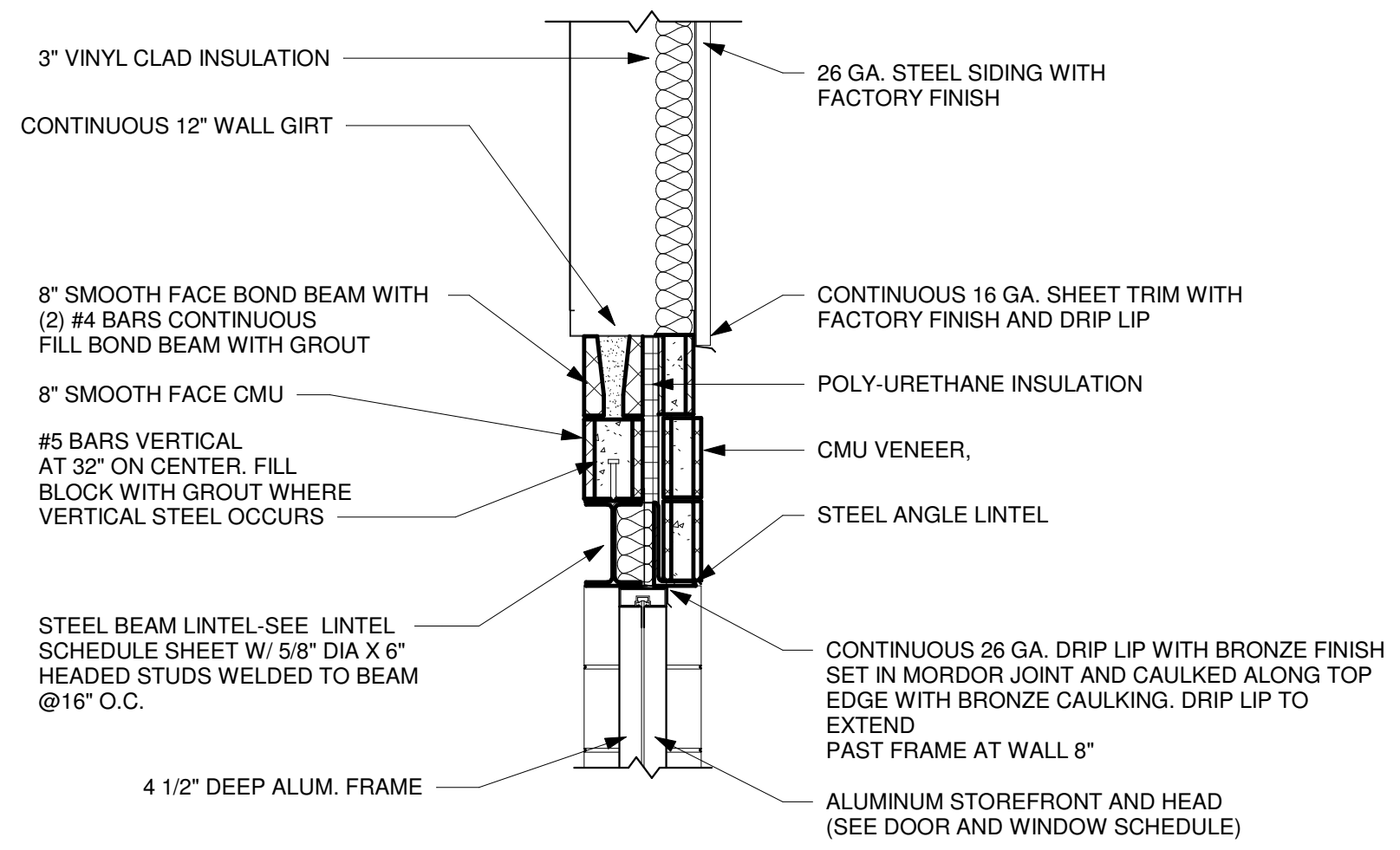
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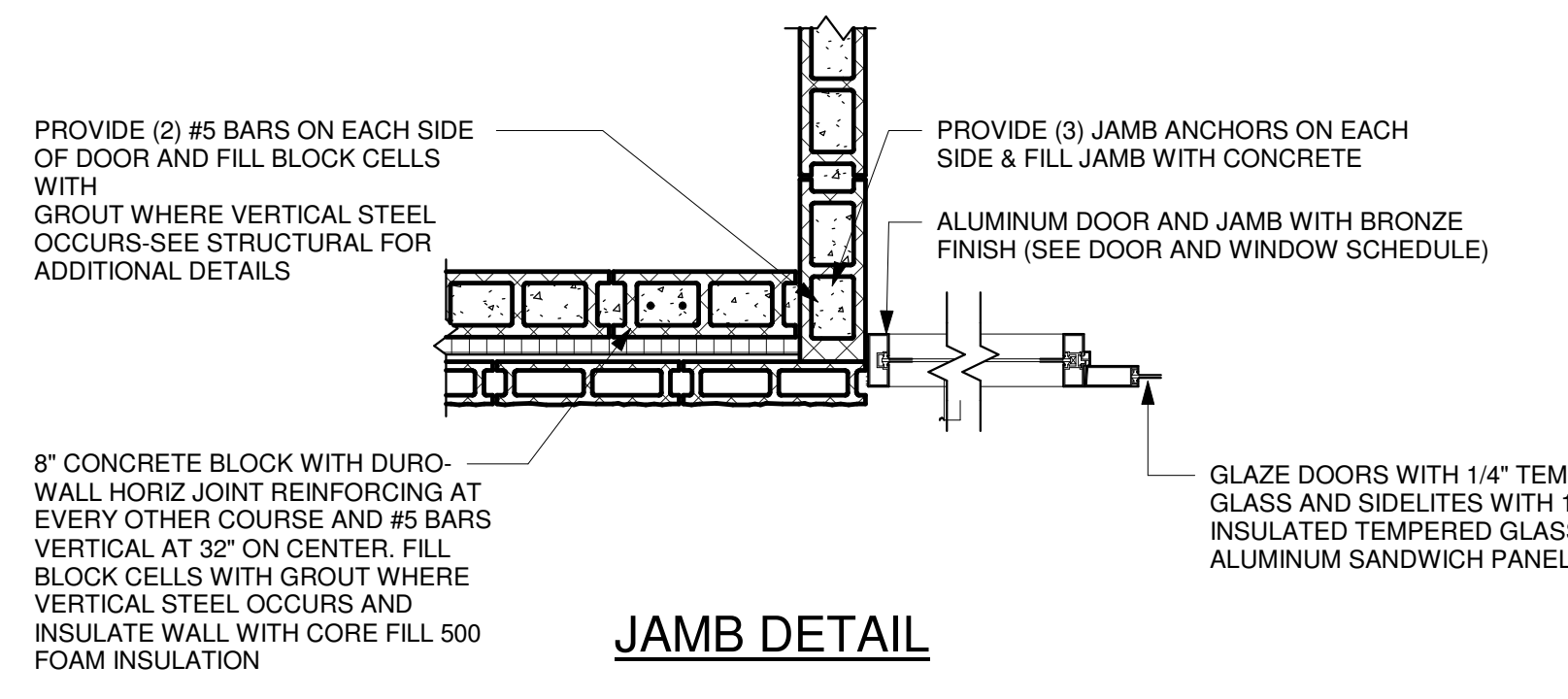
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DOOR & WINDOW DETAILS

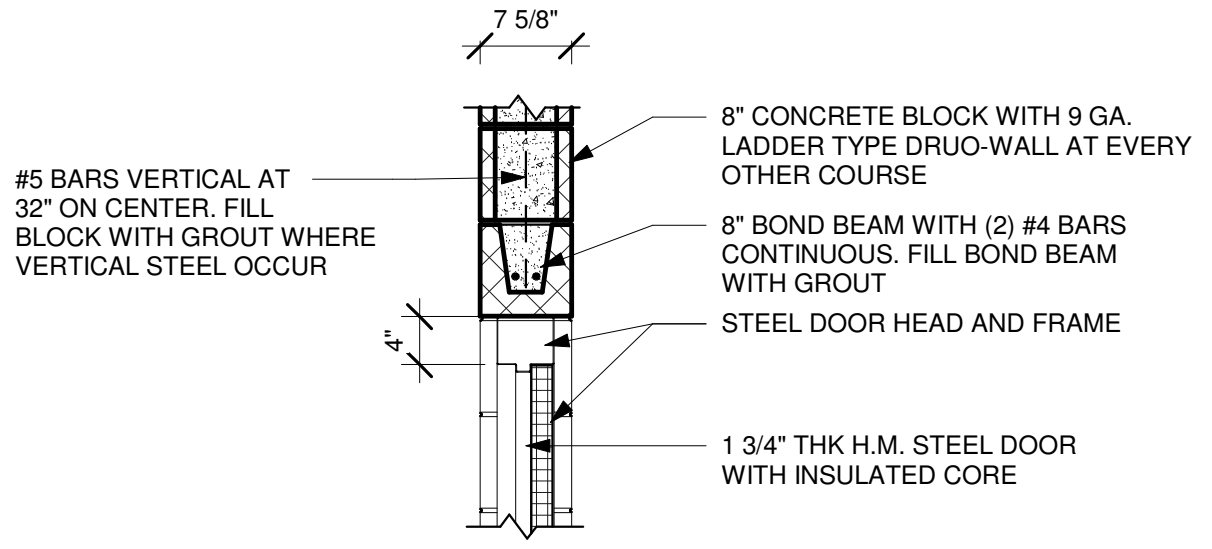


**HEAD DETAIL**

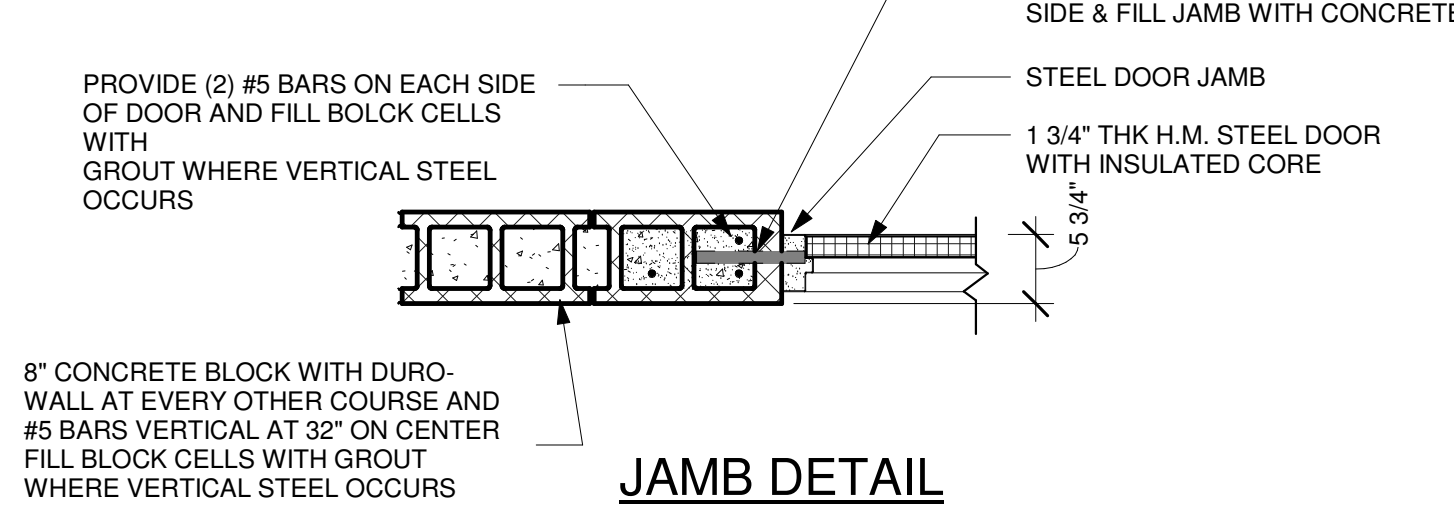


**JAMB DETAIL**

**A-HEAD/JAMB DETAIL - EXT. ALUM. ENTRY DOOR IN 8" CONCRETE BLOCK WALL WITH CMU VENEER**  
① 3/4" = 1'-0"

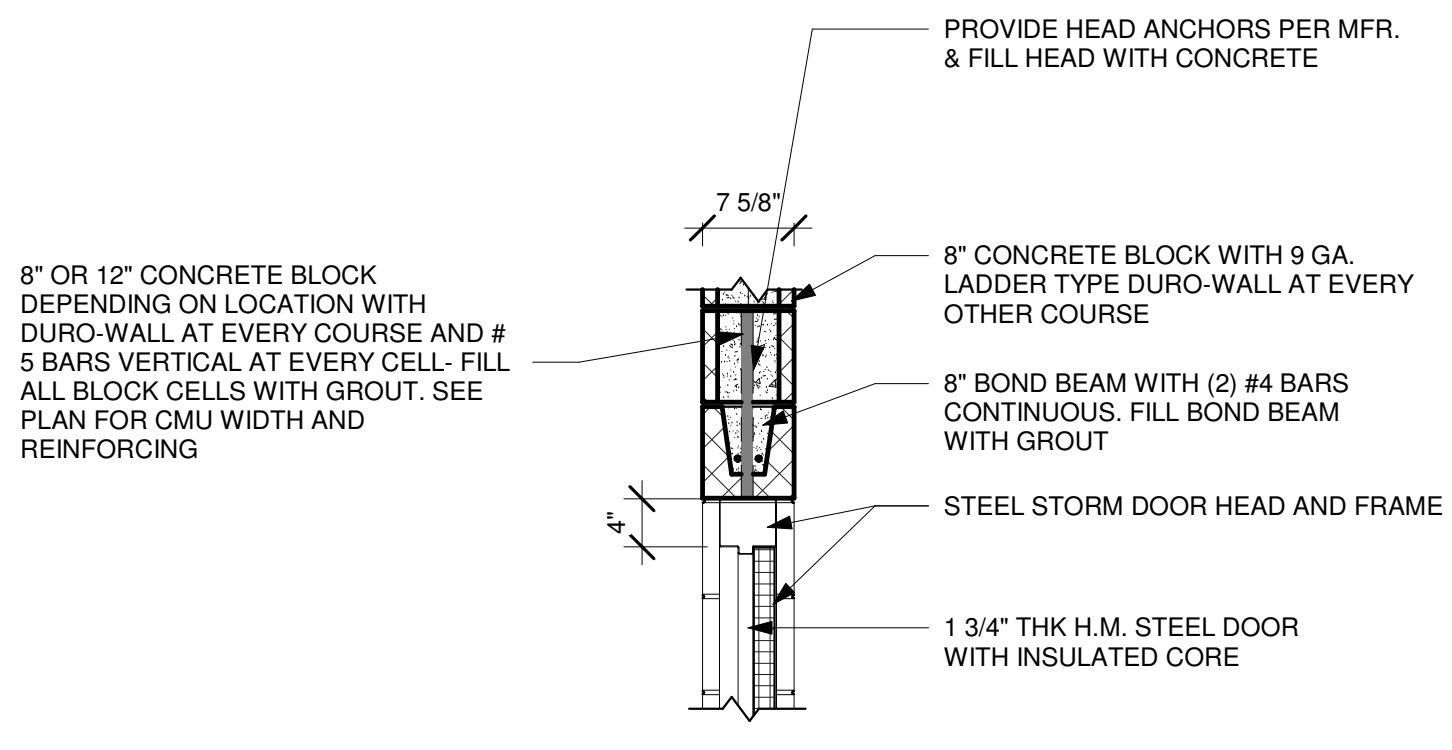


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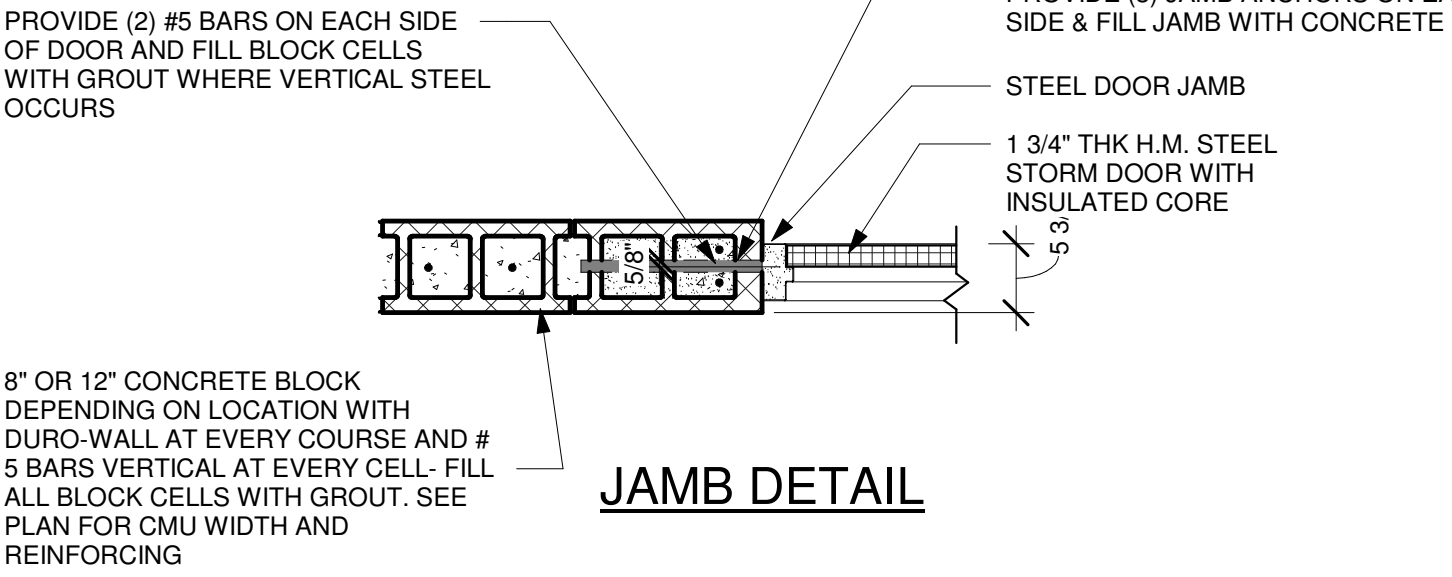


**JAMB DETAIL**

**A-HEAD/JAMB DETAIL TYP. INTERIOR SINGLE DOOR IN 8" CMU WALL**  
② 3/4" = 1'-0"

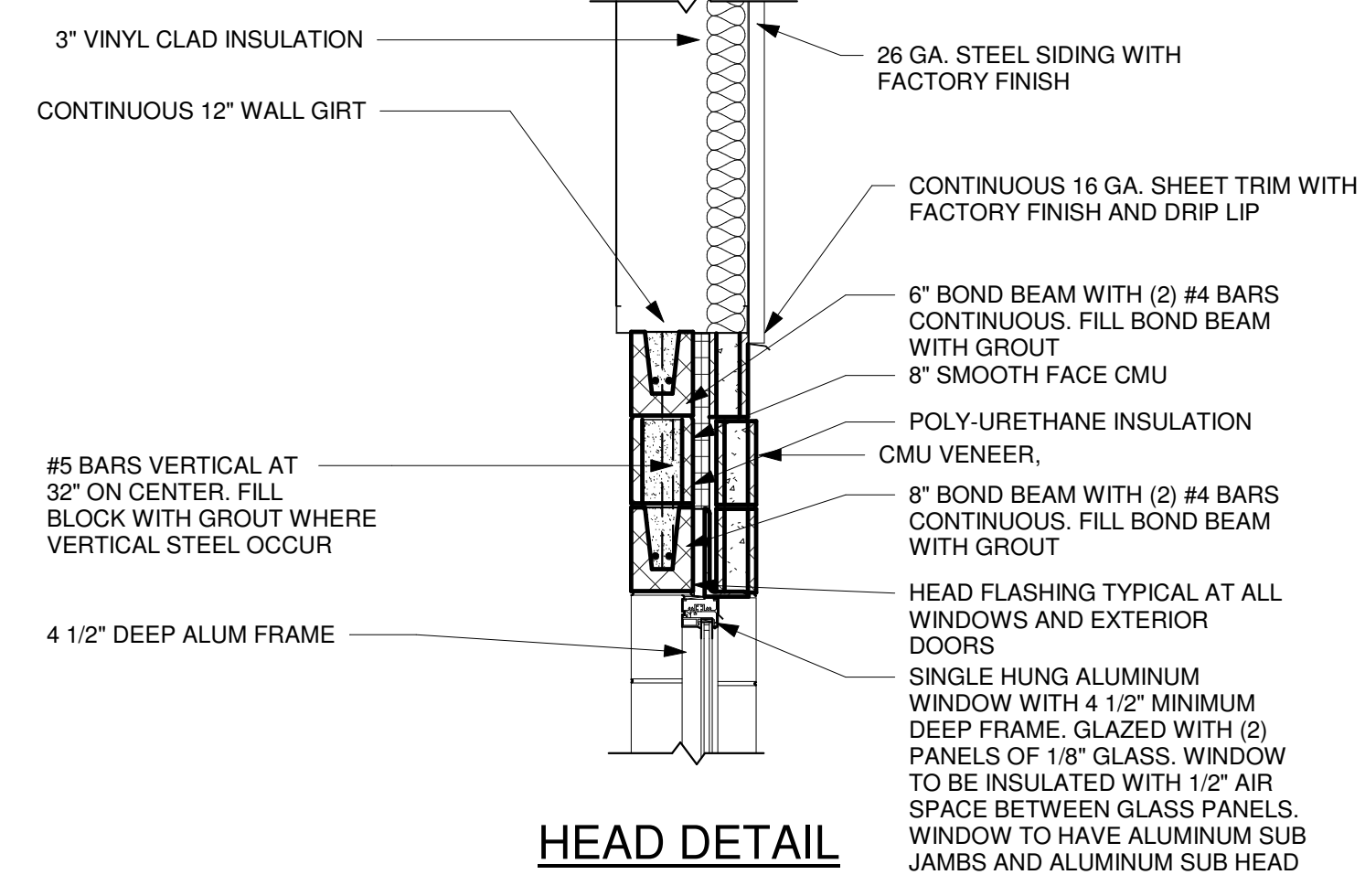


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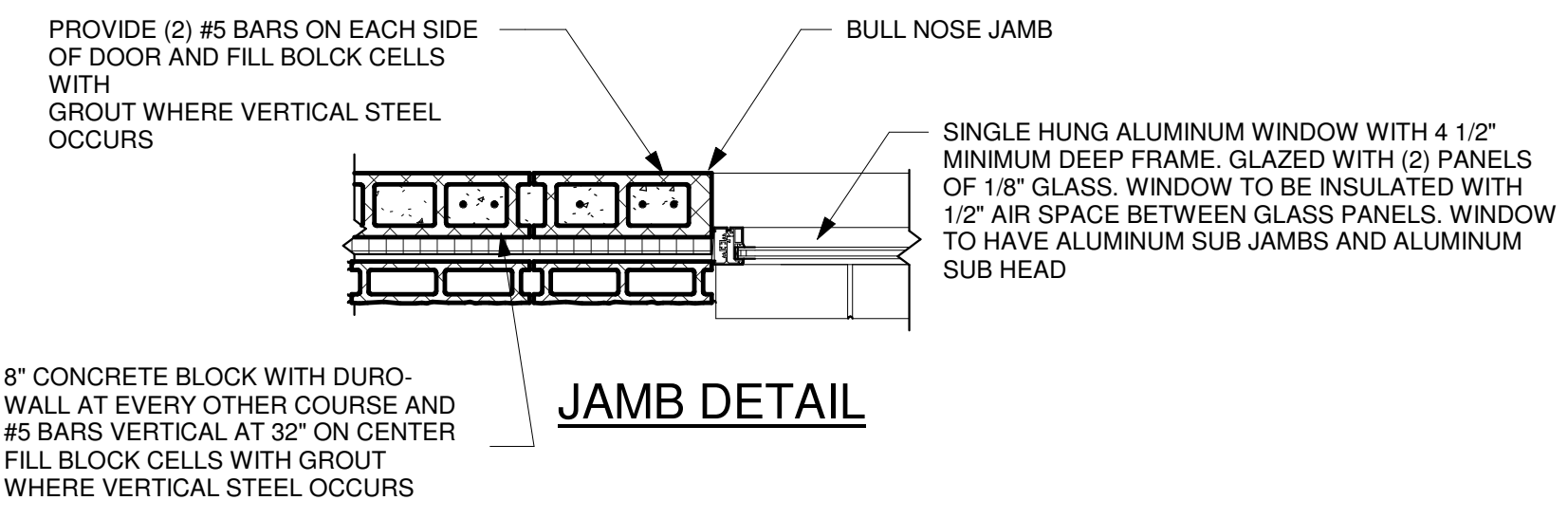


**JAMB DETAIL**

**A-HEAD/JAMB DETAIL TYP. INTERIOR SINGLE STORM DOOR IN CMU STORM WALL**  
③ 3/4" = 1'-0"

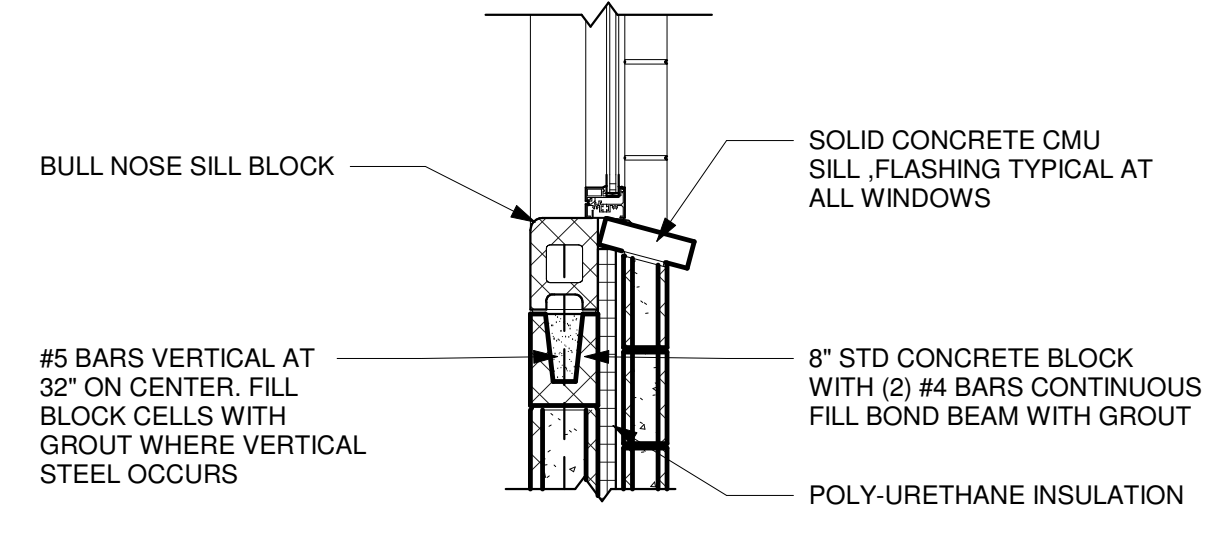


**HEAD DETAIL**

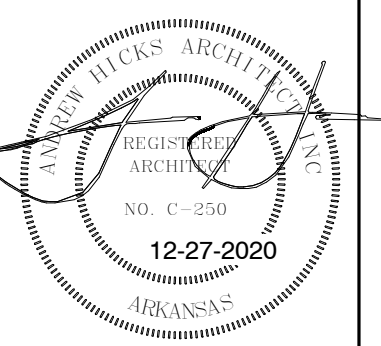


**JAMB DETAIL**

**A-HEAD/JAMB DETAIL TYP. SINGLE HUNG ALUMINUM WINDOW IN 8" CMU WITH CMU VENEER**  
④ 3/4" = 1'-0"



**SILL DETAIL**



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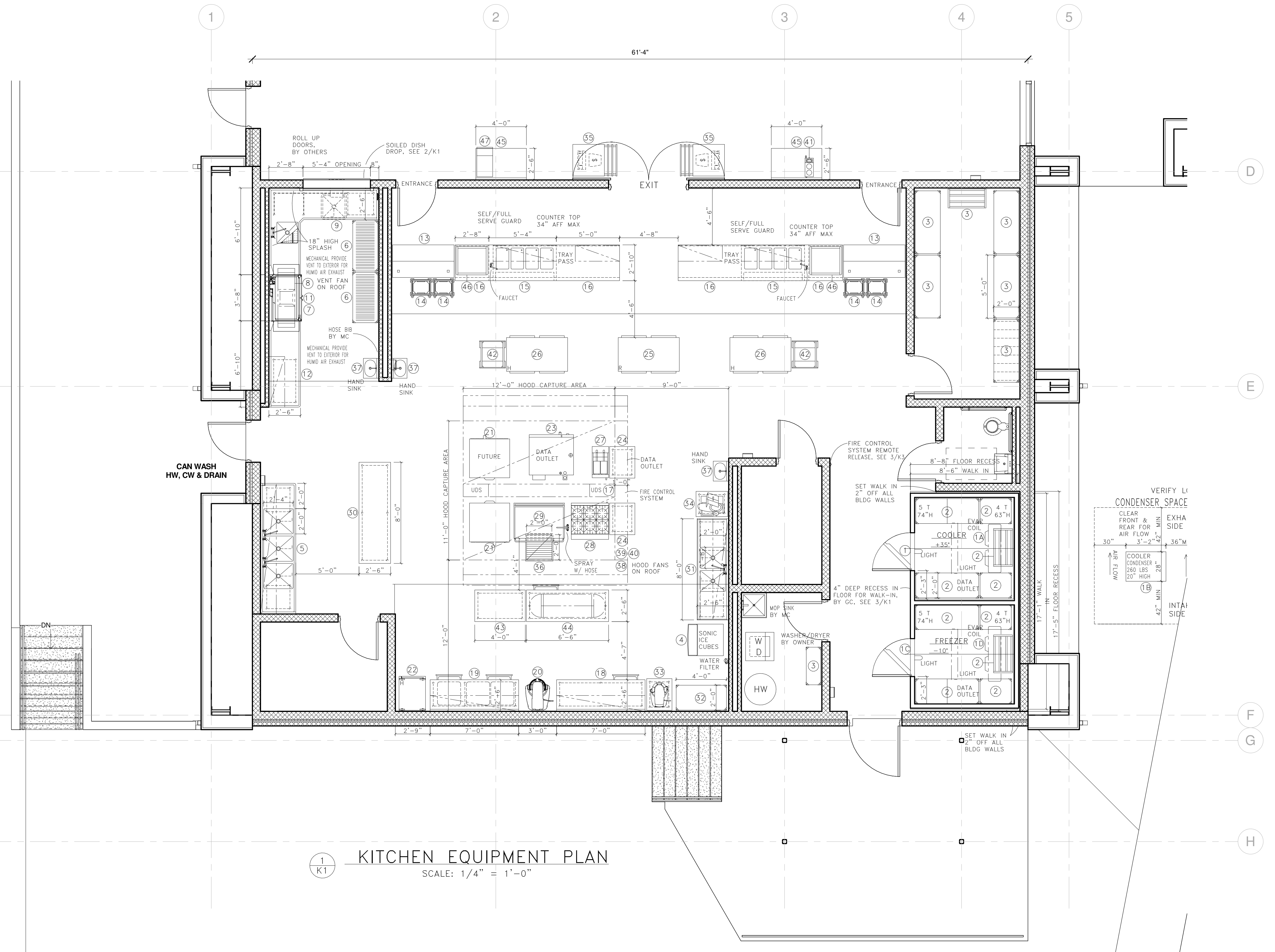
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KITCHEN PLAN-ENLARGED

**A105**

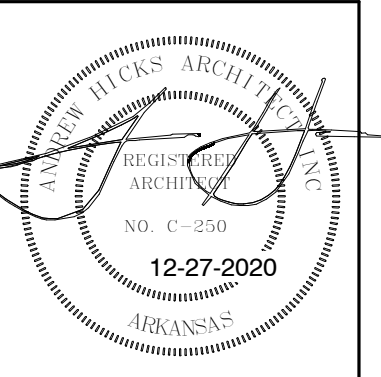
KITCHEN EQUIPMENT LIST			
NO	QTY	ITEM	REMARKS
1	1	WALK IN COOLER	SEE 3/K1
1A	1	WALK IN COOLER EVAPORATOR COIL	SEE 3/K1
1B	1	WALK IN COOLER CONDENSER	100° AMBIENT TEMPERATURE RATED
1C	1	WALK IN FREEZER	SEE 3/K1
1D	1	WALK IN FREEZER EVAPORATOR COIL	SEE 3/K1
1E	1	WALK IN FREEZER CONDENSER	100° AMBIENT TEMPERATURE RATED
2	10	WALK IN SHELVING	
3	7	SOY STORAGE SHELVING	
4	1	ICE MAKER	SONIC ICE CUBES
5	1	POT & PAN SINK	W/ WATER FILTER - SONIC ICE CUBES
6	2	DISH DRYING RACK	PORTABLE
7	1	DISHWASHER	W/ET WASH DISHWASHER
8	1	DISHWASHER VENT	SEE 4/K1
9	1	SOILED DISHWASHER	W/ FHW BINSE FAUCET, SILVER CHUTE & SOAK SINK - SEE 2/K1
10	-	OMIT	
11	1	DISHWASHER	TRAY RINSE WATER RINSE & TALL TANK
12	1	CLEAN DISHWASHER	W/ OVERSHELF
13	2	MILK COOLER	BY VENDOR
14	4	TRAY CART	PORTABLE
15	2	HOT FOOD COUNTER	W/ SNEEZE GUARD
16	4	FLAT TOP COUNTER	
17	1	UDS	BY MECHANICAL CONTRACTOR
18	1	SINK	W/ DRAINER & OVERSHELF
19	1	BAKER'S TABLE	W/ BINS, DRAWERS & OVERSHELF
20	1	40 QUART MIXER	
21	2	CONVECTION OVEN	DOUBLE STACK & PORTABLE - ONE FUTURE
22	1	HEATER/PROOFER CABINET	PORTABLE
23	1	CONVECTION OVEN	
24	2	WORK TABLE	PORTABLE
25	1	REFRIGERATOR	PASS THRU & PORTABLE
26	2	HEATED CABINET	PASS THRU & PORTABLE
27	1	FRYER	
28	1	HANG	W/ OVEN
29	1	EXHAUST FAN	W/ SPRAY HOSE
30	1	WORK TABLE	
31	1	PREPARATION TABLE	W/ OVERSHELF
32	1	SHIELD	PORTABLE
33	1	20 QUART MIXER	W/ PORTABLE STAND
34	1	Slicer	W/ PORTABLE STAND
35	2	CASHER'S COUNTER	W/ TRAY SLIDE & PORTABLE
36	1	FLOOR THROUGH	SEE 3/K2
37	3	HAND SINK	BY MECHANICAL CONTRACTOR
38	1	HOOD FAN	BY MECHANICAL CONTRACTOR
39	1	FIRE CONTROL SYSTEM	BY MECHANICAL CONTRACTOR
40	1	HOOD FAN	BY MECHANICAL CONTRACTOR
41	1	COFFEE BREWER	FUTURE
42	2	BUN PAN RACK	PORTABLE
43	1	TABLE	PORTABLE
44	1	COOK'S TABLE	W/ DRAWER & POT BACK
45	2	BEVERAGE TABLE	
46	2	HEATED MERCHANDISER	FUTURE
47	1	25" WATER DISPENSER	FUTURE



**KITCHEN EQUIPMENT PLAN**  
SCALE: 1/4" = 1'-0"

① FLOOR PLAN - KITCHEN ENLARGED  
1/4" = 1'-0"





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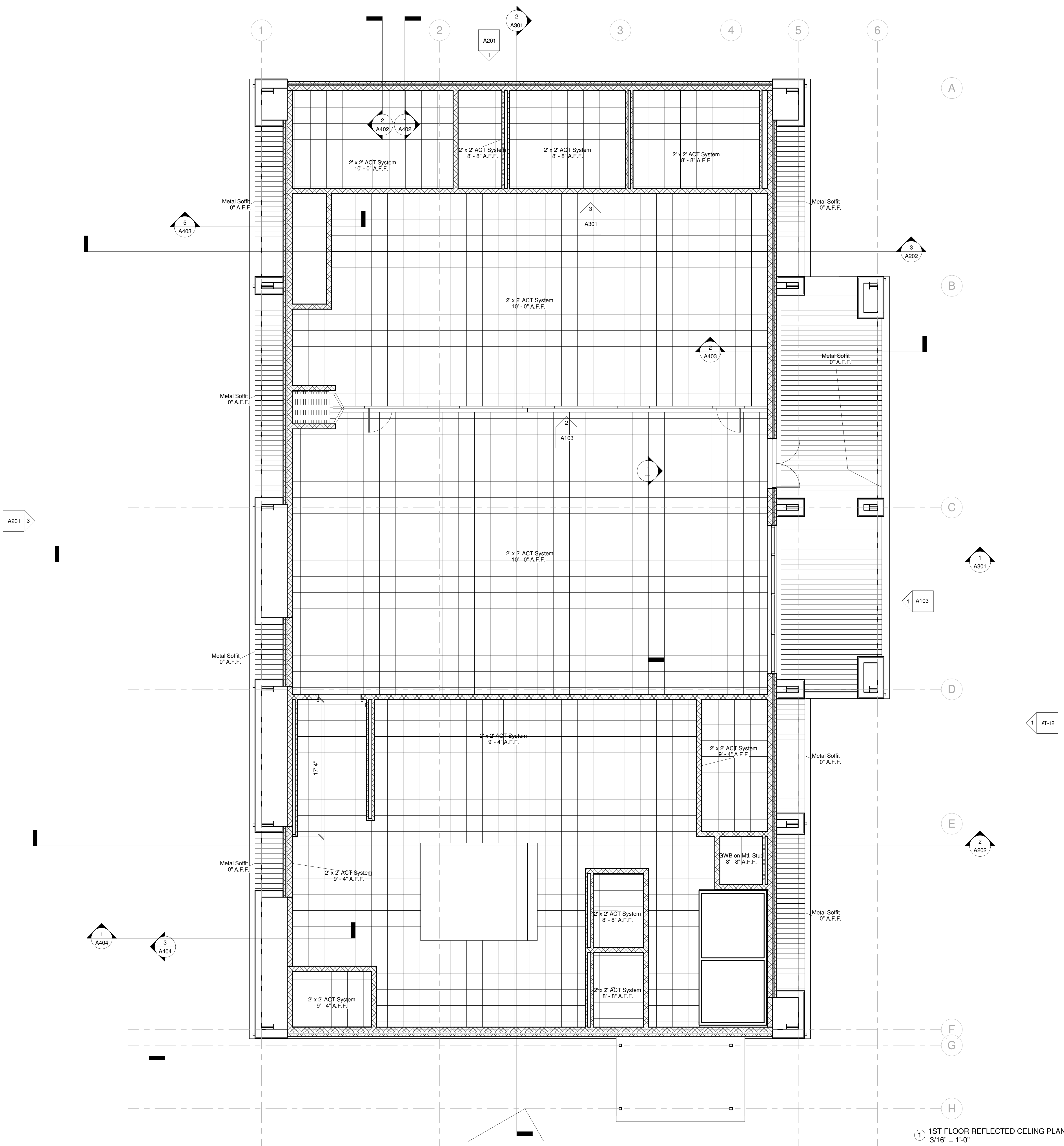
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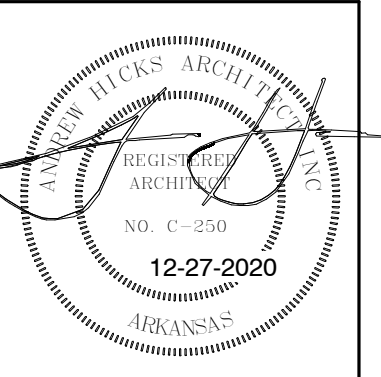
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REFLECTED CEILING PLAN

**A106**



1 1ST FLOOR REFLECTED CEILING PLAN  
3/16" = 1'-0"



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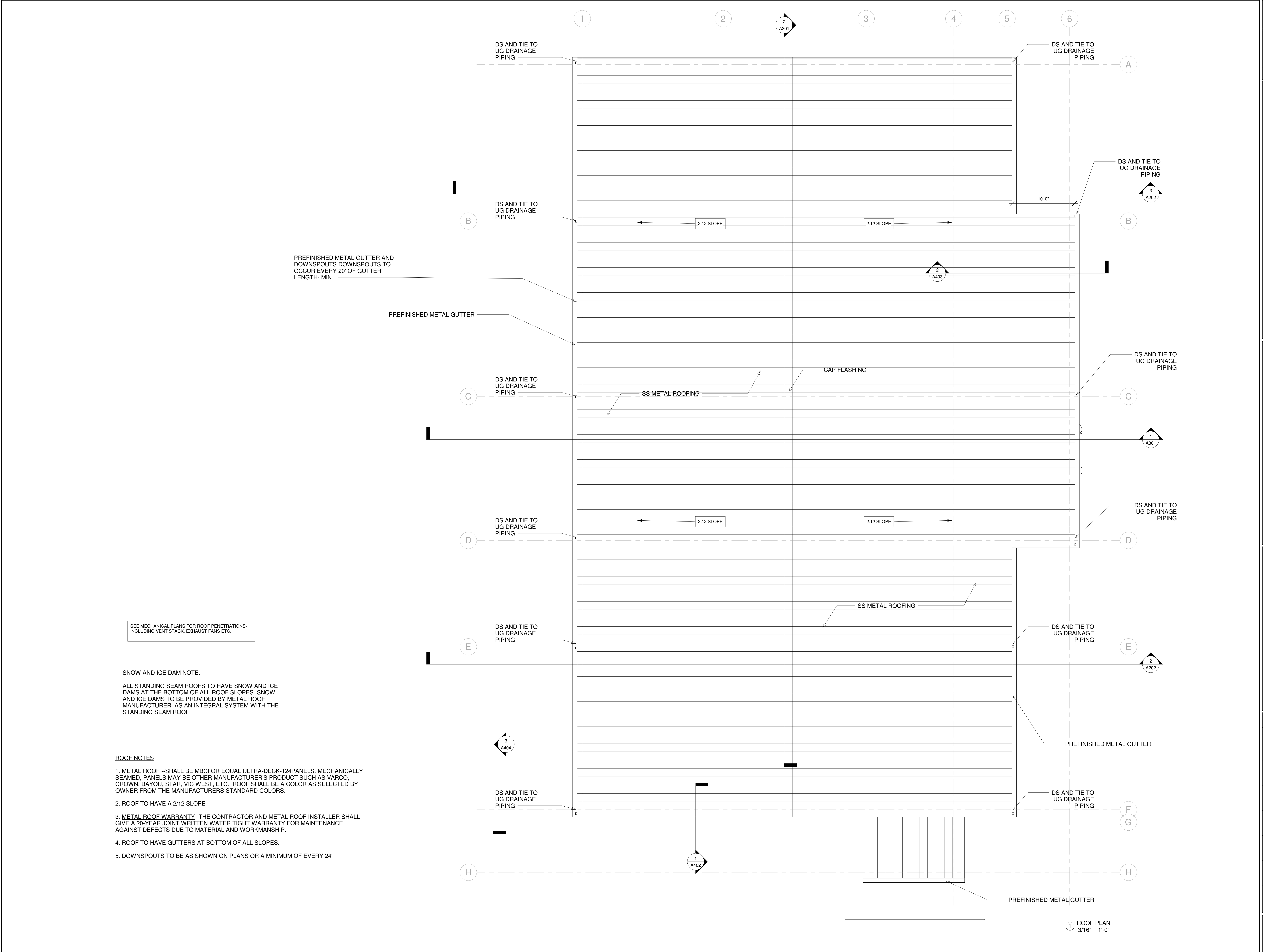
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ROOF PLAN

**A107**



PREFINISHED METAL GUTTER AND DOWNSPOUTS DOWNSPOUTS TO OCCUR EVERY 20' OF GUTTER LENGTH- MIN.

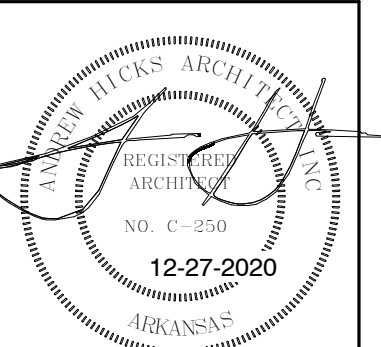
SEE MECHANICAL PLANS FOR ROOF PENETRATIONS- INCLUDING VENT STACK, EXHAUST FANS ETC.

**SNOW AND ICE DAM NOTE:**  
ALL STANDING SEAM ROOFS TO HAVE SNOW AND ICE DAMS AT THE BOTTOM OF ALL ROOF SLOPES. SNOW AND ICE DAMS TO BE PROVIDED BY METAL ROOF MANUFACTURER AS AN INTEGRAL SYSTEM WITH THE STANDING SEAM ROOF

- ROOF NOTES**
- METAL ROOF --SHALL BE MBCI OR EQUAL ULTRA-DECK-124PANELS. MECHANICALLY SEAMED. PANELS MAY BE OTHER MANUFACTURER'S PRODUCT SUCH AS VARCO, CROWN, BAYOU, STAR, VIC WEST, ETC. ROOF SHALL BE A COLOR AS SELECTED BY OWNER FROM THE MANUFACTURERS STANDARD COLORS.
  - ROOF TO HAVE A 2/12 SLOPE
  - METAL ROOF WARRANTY--THE CONTRACTOR AND METAL ROOF INSTALLER SHALL GIVE A 20-YEAR JOINT WRITTEN WATER TIGHT WARRANTY FOR MAINTENANCE AGAINST DEFECTS DUE TO MATERIAL AND WORKMANSHIP.
  - ROOF TO HAVE GUTTERS AT BOTTOM OF ALL SLOPES.
  - DOWNSPOUTS TO BE AS SHOWN ON PLANS OR A MINIMUM OF EVERY 24'

1 ROOF PLAN  
3/16" = 1'-0"





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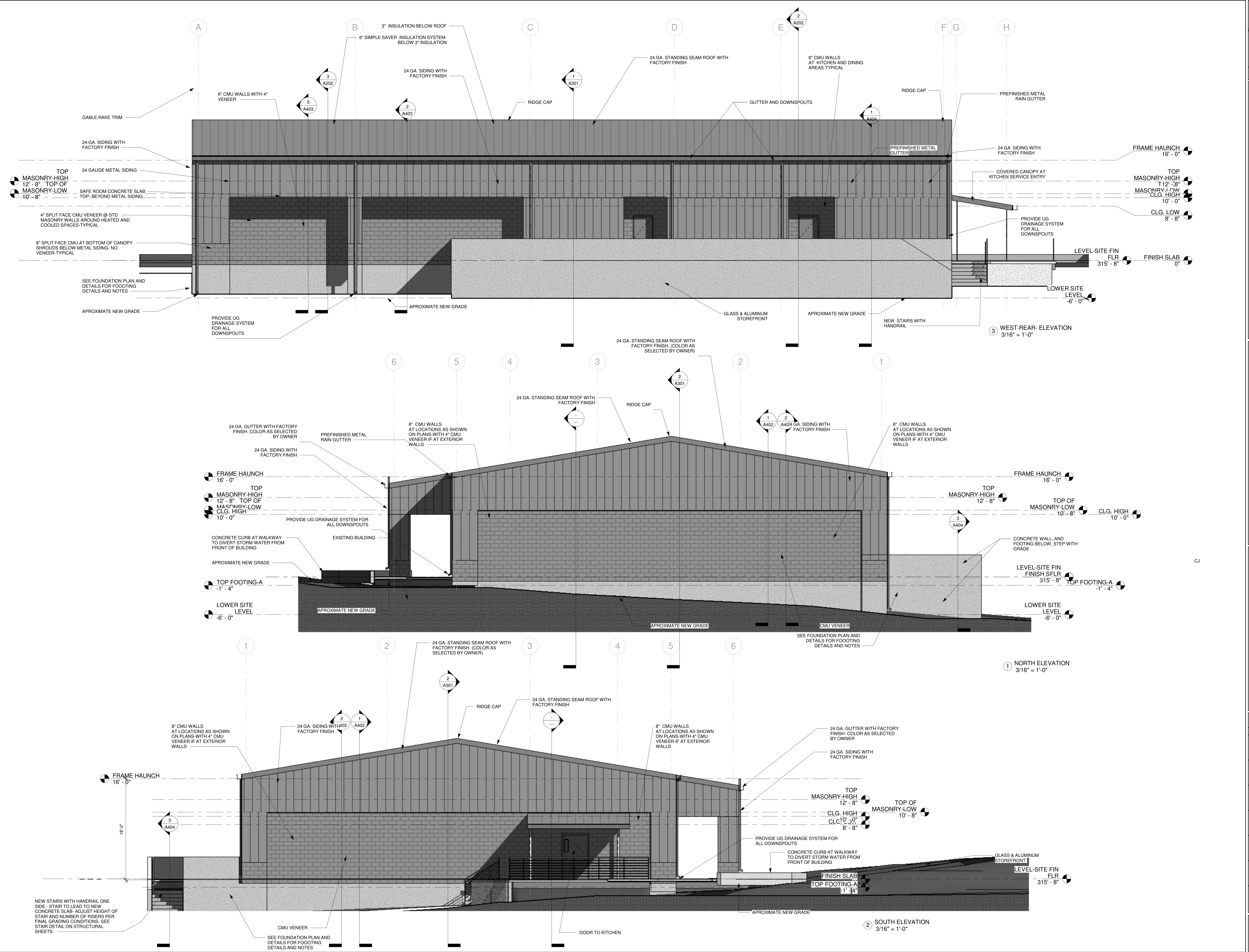
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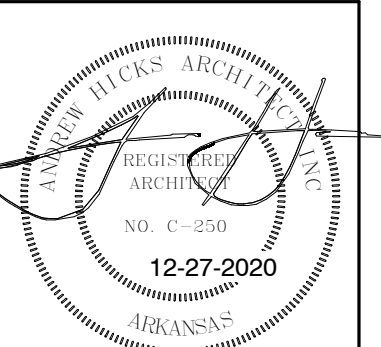
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EXTERIOR ELEVATIONS	

**A201**



CJ



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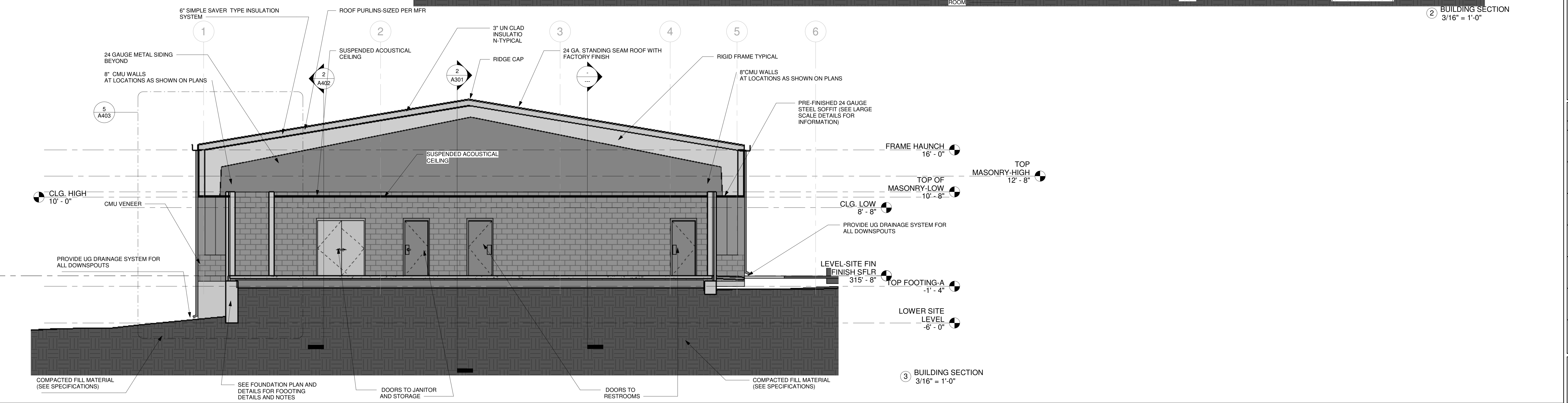
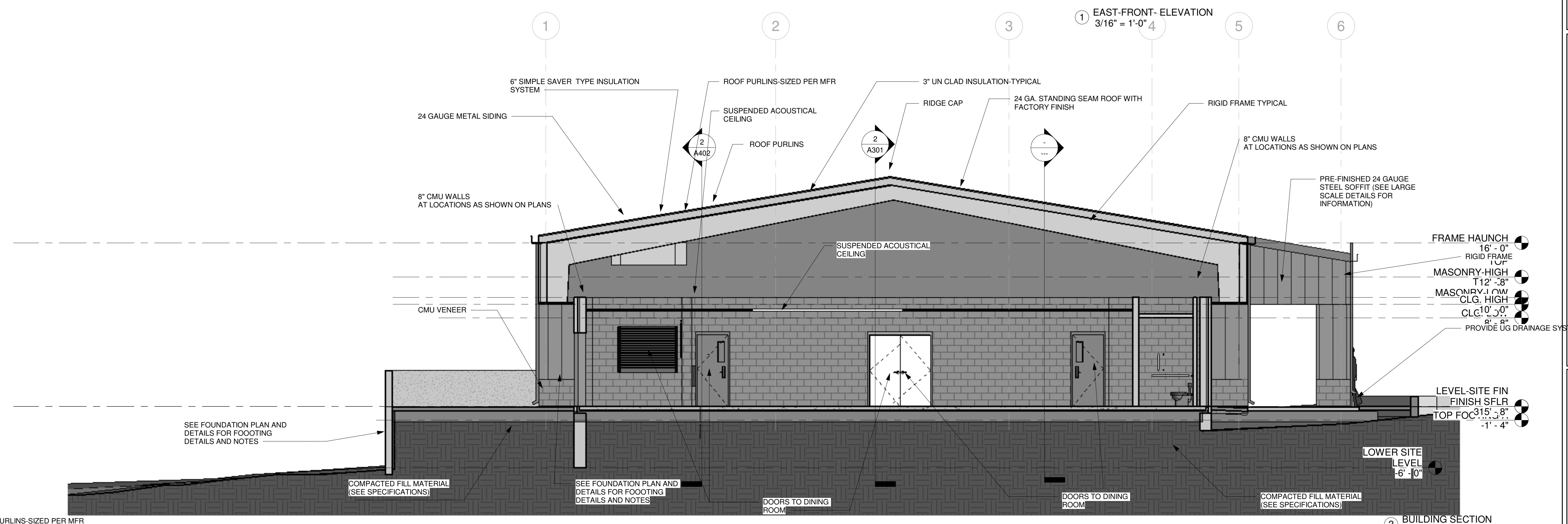
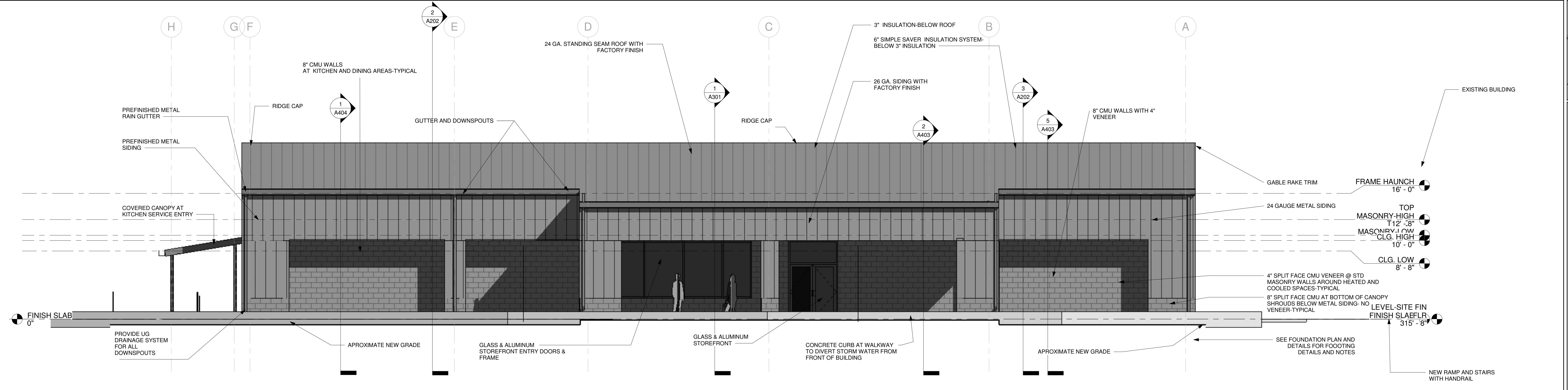
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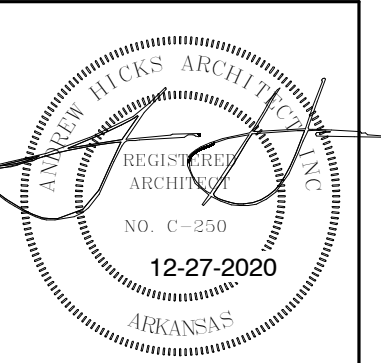
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EXTERIOR ELEVATIONS AND BUILDING SECTIONS

**A202**







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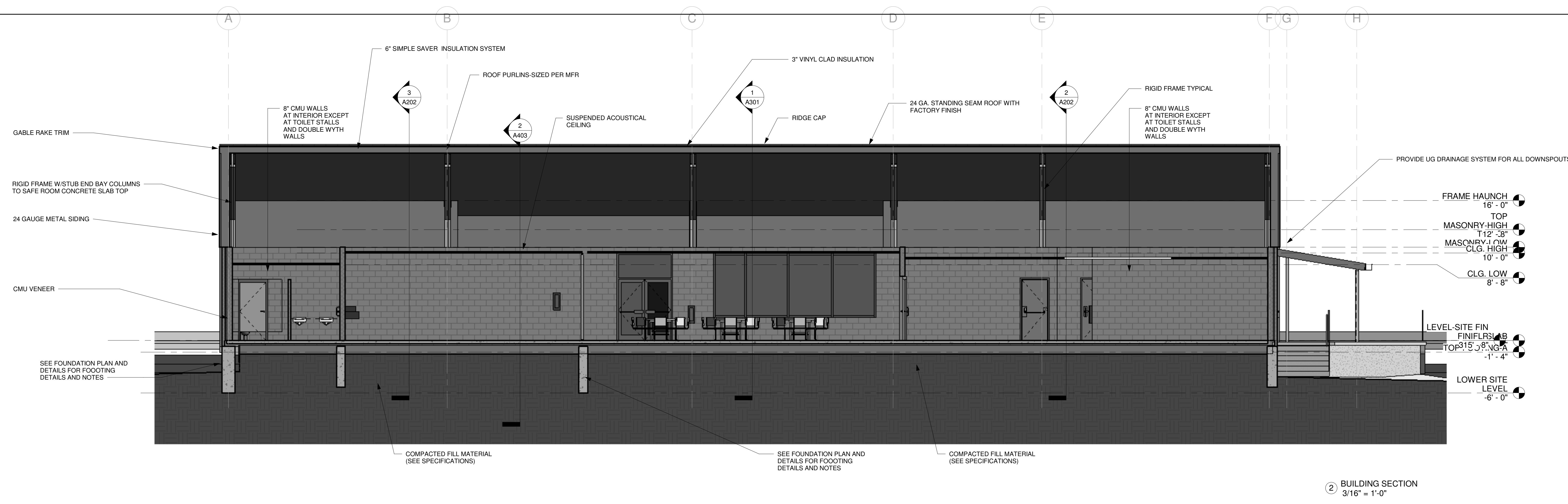
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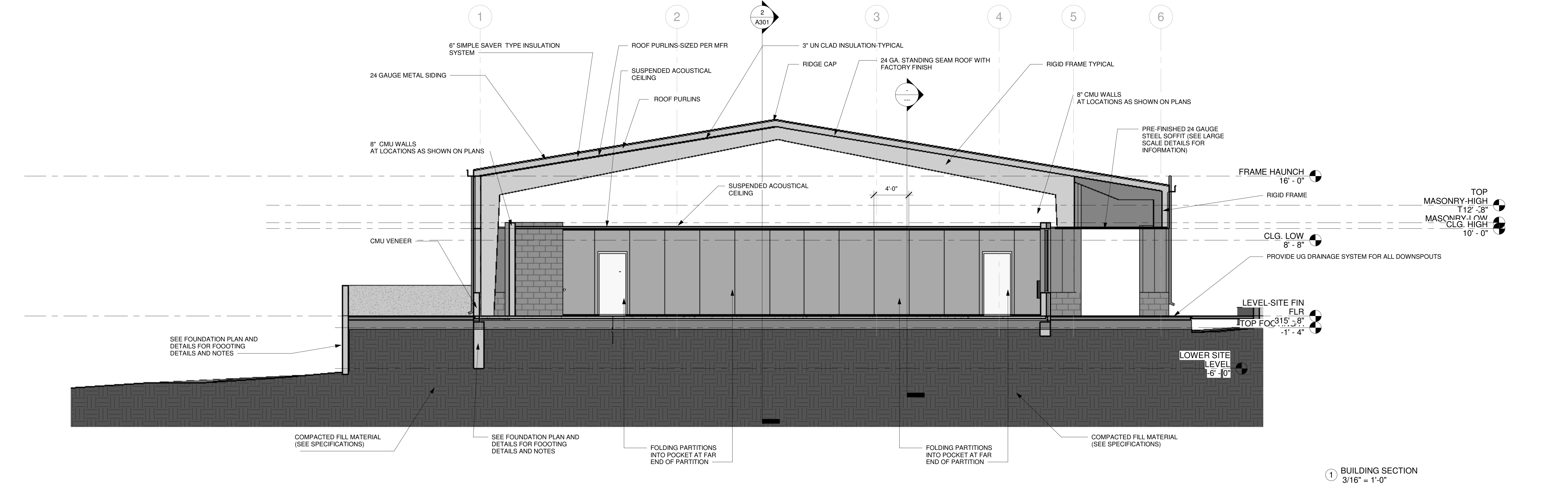
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BUILDING SECTIONS AND INTERIOR ELEVATIONS

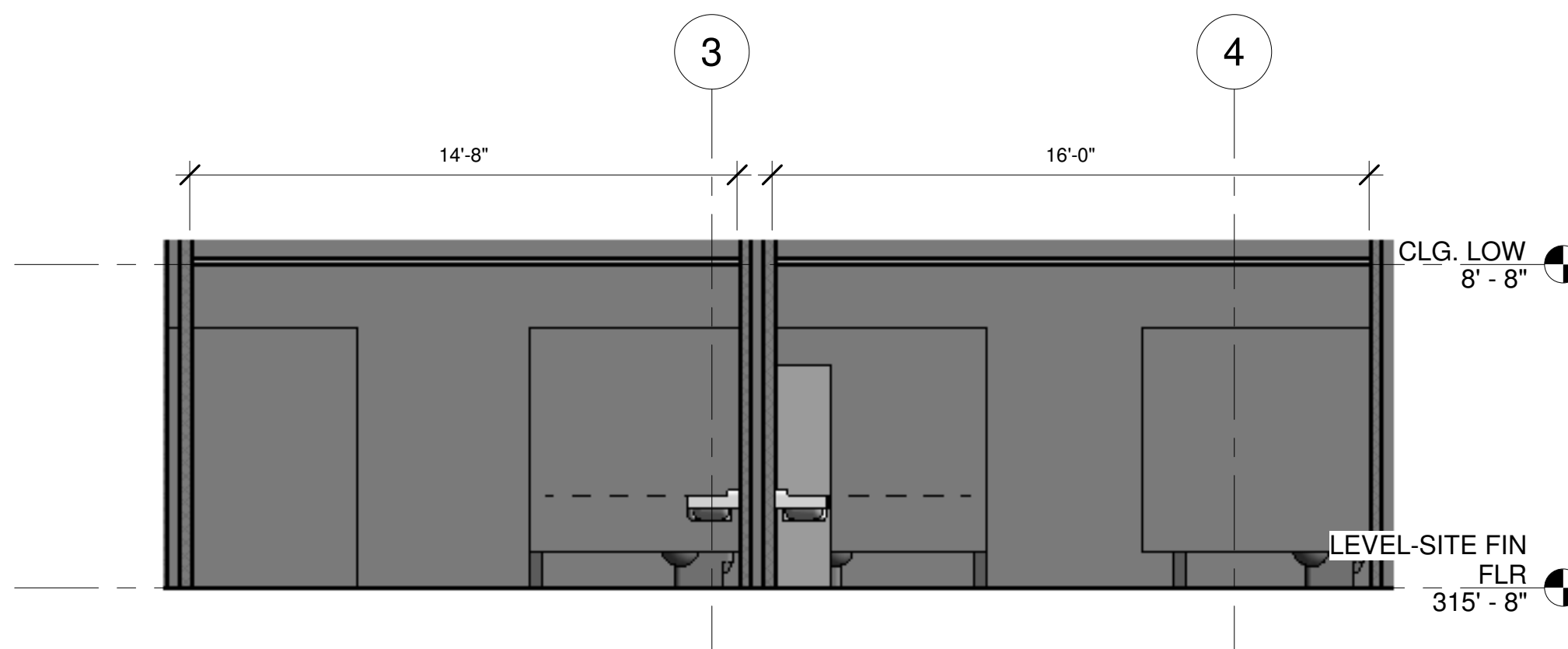
**A301**



2 BUILDING SECTION  
3/16" = 1'-0"



1 BUILDING SECTION  
3/16" = 1'-0"



3 TYPICAL TOILET ELEVATION  
1/4" = 1'-0"

GRAB BARS ON BOTH SIDE AND REAR OF WATER CLOSET

**PLUMBING NOTE**

1. ALL WALL MOUNTED SINKS ARE TO BE INSTALLED WITH HEAVY DUTY "ZURN" TYPE WALL HANGERS, IN APPROPRIATE SIZES AS REQUIRED FOR EACH SINK. SEE PLUMBING SCHEDULE FOR SPECIFIC CARRIERS. HOWEVER, IF NO SPECIFIC WALL CARRIER IS GIVEN, CONTRACTOR IS TO INCLUDE A "ZURN" TYPE WALL CARRIER THAT WILL SUPPORT 300 POUNDS OF WEIGHT APPLIED TO THE FRONT EDGE OF EACH SINK

**FIXTURE KEY:**

GRAB BAR - 250 LBF. MINIMUM, (33" MIN. - 36" MAX. HEIGHT) BOBRICK WASHROOM EQUIPMENT, INC. PROVIDE THE REQUIRED QUANTITY AND LENGTH AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE GOVERNING CODE. THE BAR SHALL 1 1/2" IN DIAMETER AND MOUNTED WITH 1 1/2" CLEARANCE FROM THE WALL.

WALL MOUNTED HAND SOAP DISPENSER (36" MAXIMUM HEIGHT) MODEL AS REQUESTED BY OWNER

MIRROR (BOTTOM OF REFLECTIVE SURFACE AT 40" MAXIMUM HEIGHT) PLATE GLASS MIRROR- WITH STAINLESS STEEL FRAME

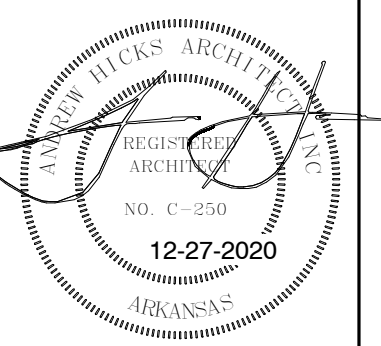
TOILET PAPER DISPENSER ROLL TYPE, VERIFY TYPE WITH OWNER

HANDICAPPED RATED FIXTURES REQUIRED AT HANDICAPPED RATED TOILET COMPARTMENTS

**TYPICAL ACCESSORIES AT EACH RESTROOM**

- GRAB BARS IN H.C. TOILETS
- COAT HOOKS ON TOILET DOORS
- T.P. DISPENSERS AT EACH W.C.
- NAPKIN RECEPTACLES AT LAV.
- RECESSED TOWEL DISPENSER
- SOAP DISPENSERS AT EACH LAV.

FLUSH HANDLE TO BE ON "OPEN" SIDE OF TOILET ROOM



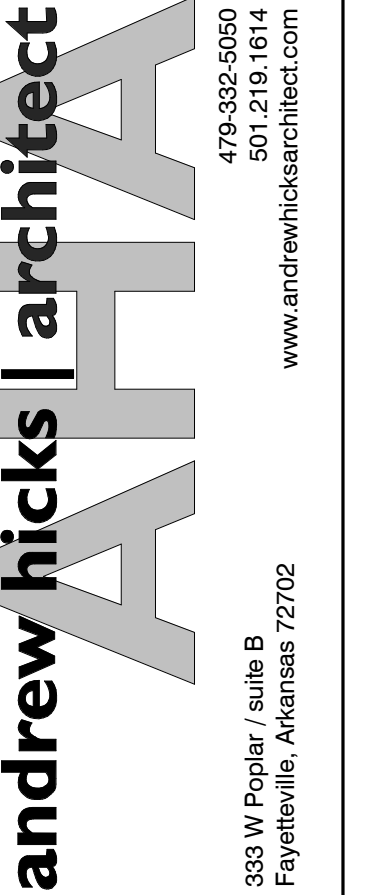
ARCHITECT OF RECORD  
ANDREW F. HICKS

**A NEW CAFETERIA AND MULTI-PURPOSE ROOM**

Project Number: 1920-3809-001  
FOR  
HILLCREST SCHOOL DISTRICT

HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

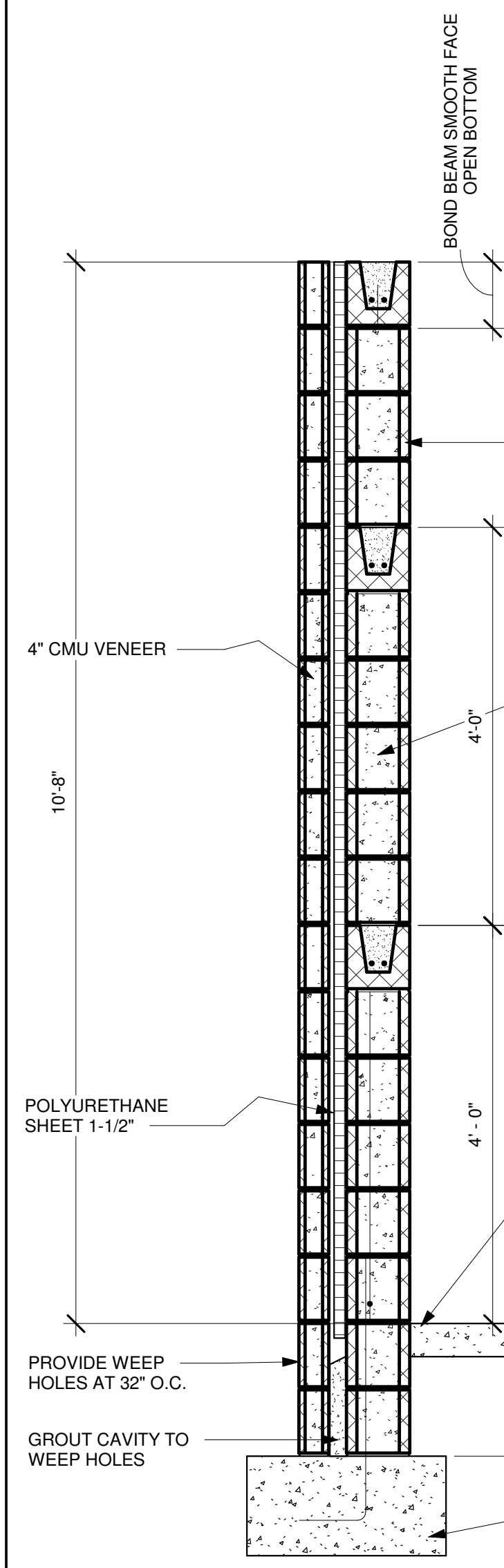
**andrew hicks | architect**



BAR SIZE	SPLICE LENGTH
#4	2'-0"
#5	2'-6"
#6	3'-0"
#7	3'-6"
#8	4'-0"

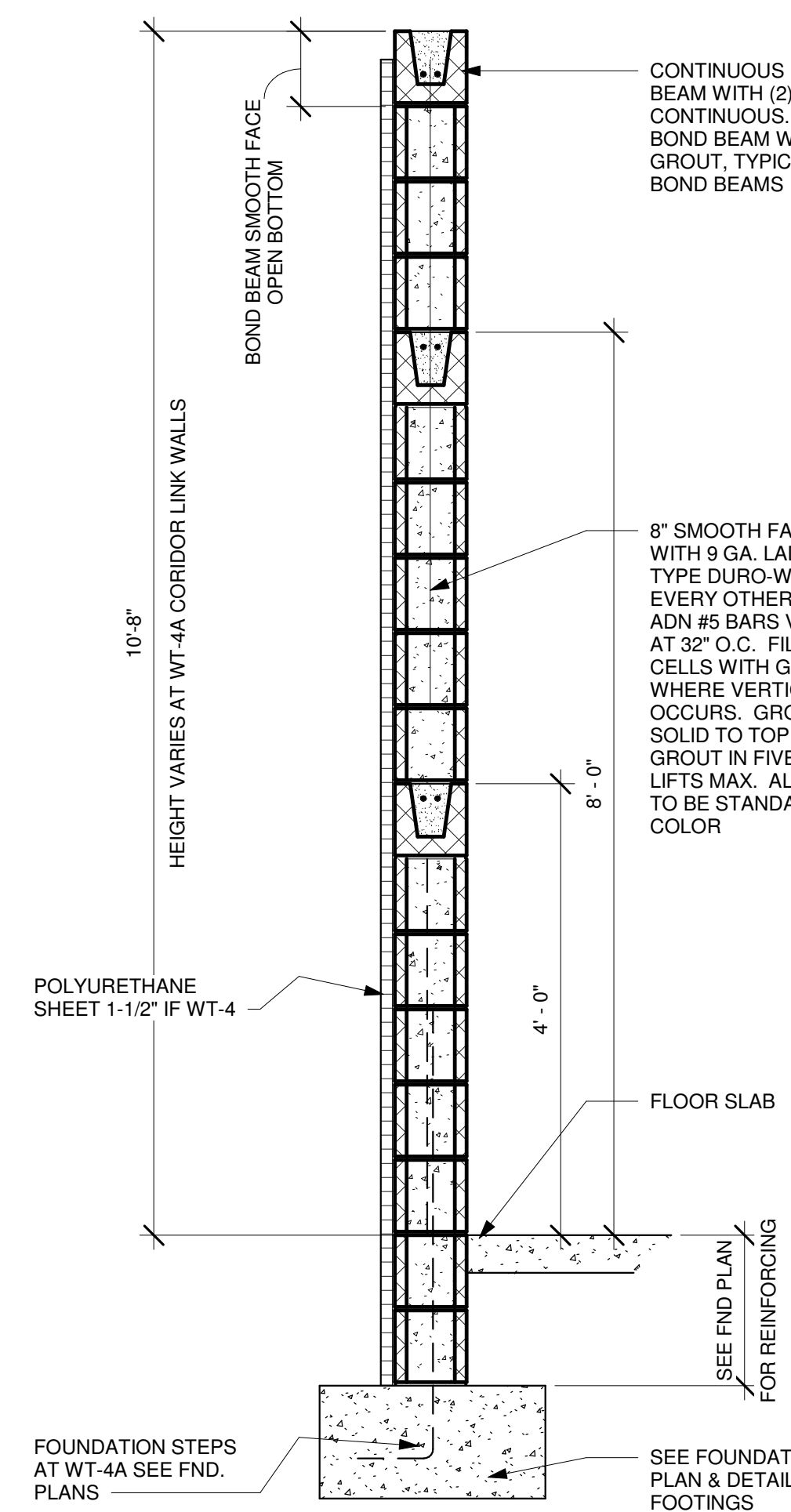
**BOND BEAM GENERAL NOTE:**  
BOND BEAMS THAT CHANGE COURSE ARE TO OVERLAP A MINIMUM 8'-0"

**CMU GENERAL NOTE:**  
ALL CMU-BLOCK ARE TO HAVE ROUNDED CORNERS AND EGES AT WINDOW AND DOOR OPENINGS AND CORNERS



**WT-3 MASONRY - EXTERIOR**  
MATERIAL:  
8" MASONRY WALL OF DOUBLE CELL CMU, SMOOTH FACE. BRICK TIES ON EXTERIOR FACE WITH 1-1/2" OF POLYURETHANE INSULATION APPLIED TO EXTERIOR FACE. BLOCK LAID IN RUNNING BOND  
(A). SMOOTH FACE CMU FROM FOOTING TO BELOW FINISH GRADE LEVEL  
REINFORCING:  
FROM FOOTING TO FLOOR SLAB-SEE FOUNDATION PLANS FROM FLOOR SLAB AND UP. 1 (QTY) #5 BAR VERTICAL IN CELL AT EVERY 32", EXCEPT WHERE SHOWN OR NOTED ON PLANS.  
BARS ARE TO BE LAPPED TO FULL HEIGHT OF WALL AS INDICATED IN LAP SCHEDULE  
9 GAL LADDER TYPE DURO-WALL AT EVERY OTHER COURSE  
BOND BEAMS TO HAVE (2) QTY #5'S CONTINUOUS  
BOND BEAMS:  
BOND BEAMS TO MATCH EXTERIOR SURFACE FINISH  
(A). AT EVERY 4' VERTICALLY  
(B). BOND BEAM AT TOP COURSE, CLOSED  
GROUT:  
ALL CELLS WITH VERTICAL REBAR SOLID TO FULL HEIGHT OF WALL GROUT IN MAXIMUM 5 COURSE LIFTS GROUT ALL BOND BEAMS SOLID.  
4" CMU EXTERIOR VENEER:  
(A) CMU EXTERIOR VENEER FROM FOUNDATION TO TOP OF WALL  
INSULATION:  
INSULATE NON GROUTED CMU CELLS WITH CORE FILL 500 FOAM INSULATION  
1-1/2" OF POLYURETHANE INSULATION APPLIED TO EXTERIOR FACE OF CMU BLOCK.  
WATERPROOFING:  
ALL EXTERIOR CMU VENEER TO HAVE FACTORY APPLIED ACME SHIELD WATER PROOFING.

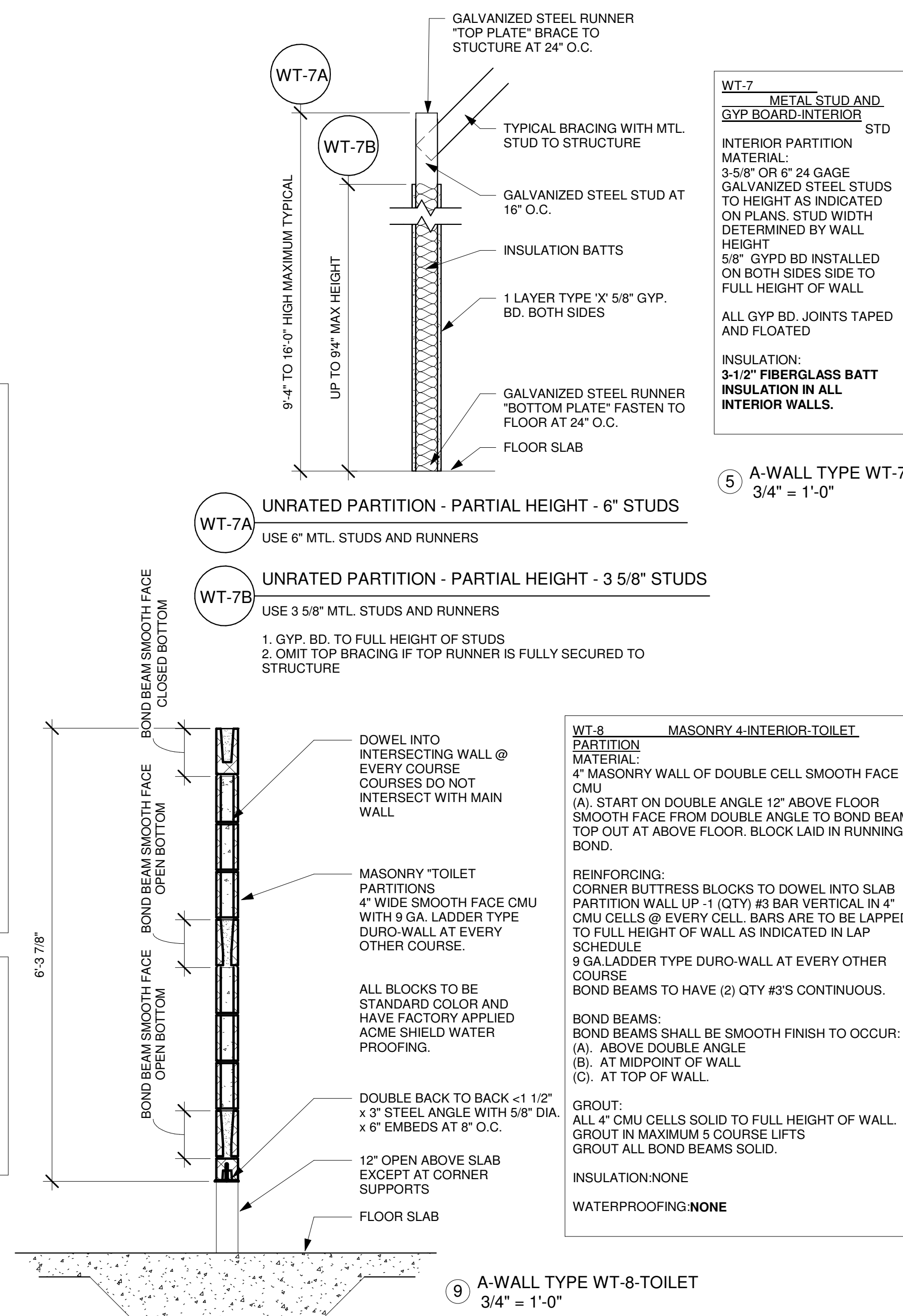
8 A-EXTERIOR WALL TYPE WT-3  
3/4" = 1'-0"



**WT-4A MASONRY 8" - INTERIOR**  
MATERIAL:  
8" MASONRY WALL OF DOUBLE CELL CMU, SMOOTH FACE. BRICK TIES ON EXTERIOR FACE WITH 1-1/2" OF POLYURETHANE INSULATION APPLIED TO EXTERIOR FACE. BLOCK LAID IN RUNNING BOND  
(A). SMOOTH FACE CMU FROM FOOTING TO BELOW FINISH GRADE LEVEL  
REINFORCING:  
FROM FOOTING TO FLOOR SLAB-SEE FOUNDATION PLANS FROM FLOOR SLAB AND UP. 1 (QTY) #5 BAR VERTICAL IN CELL AT EVERY 32", EXCEPT WHERE SHOWN OR NOTED ON PLANS.  
BARS ARE TO BE LAPPED TO FULL HEIGHT OF WALL AS INDICATED IN LAP SCHEDULE  
9 GAL LADDER TYPE DURO-WALL AT EVERY OTHER COURSE  
BOND BEAMS TO HAVE (2) QTY #5'S CONTINUOUS  
BOND BEAMS:  
BOND BEAMS SHALL BE SMOOTH FINISH  
(A). AT EVERY 4' VERTICALLY CLOSED  
(B). BOND BEAM AT TOP COURSE, CLOSED  
GROUT:  
ALL CELLS WITH VERTICAL REBAR SOLID TO FULL HEIGHT OF WALL GROUT IN MAXIMUM 5 COURSE LIFTS GROUT ALL BOND BEAMS SOLID.  
INSULATION:NONE  
WATERPROOFING:NONE

**WT-4 MASONRY 8" - EXTERIOR**  
MATERIAL:  
ALL THE SAME SAME AS WT-4A  
INSULATION:  
1-1/2" OF POLYURETHANE INSULATION APPLIED TO EXTERIOR FACE OF CMU BLOCK.  
WATERPROOFING:  
ALL EXTERIOR FACE CMU BLOCK TO HAVE FACTORY APPLIED ACME SHIELD WATER PROOFING.

4 A-EXTERIOR WALL TYPE EXTERIOR WT-4 AND INTERIOR WT-4A  
3/4" = 1'-0"



**WT-7 METAL STUD AND GYP BOARD-INTERIOR**  
INTERIOR PARTITION  
STD STUD TO STRUCTURE  
MATERIAL:  
3-5/8" OR 6" 24 GAGE GALVANIZED STEEL STUDS TO HEIGHT AS INDICATED ON PLANS. STUD WIDTH DETERMINED BY WALL HEIGHT  
5/8" GYP BD INSTALLED ON BOTH SIDES SIDE TO FULL HEIGHT OF WALL  
ALL GYP BD JOINTS TAPED AND FLOATED  
INSULATION:  
3-1/2" FIBERGLASS BATT INSULATION IN ALL INTERIOR WALLS.

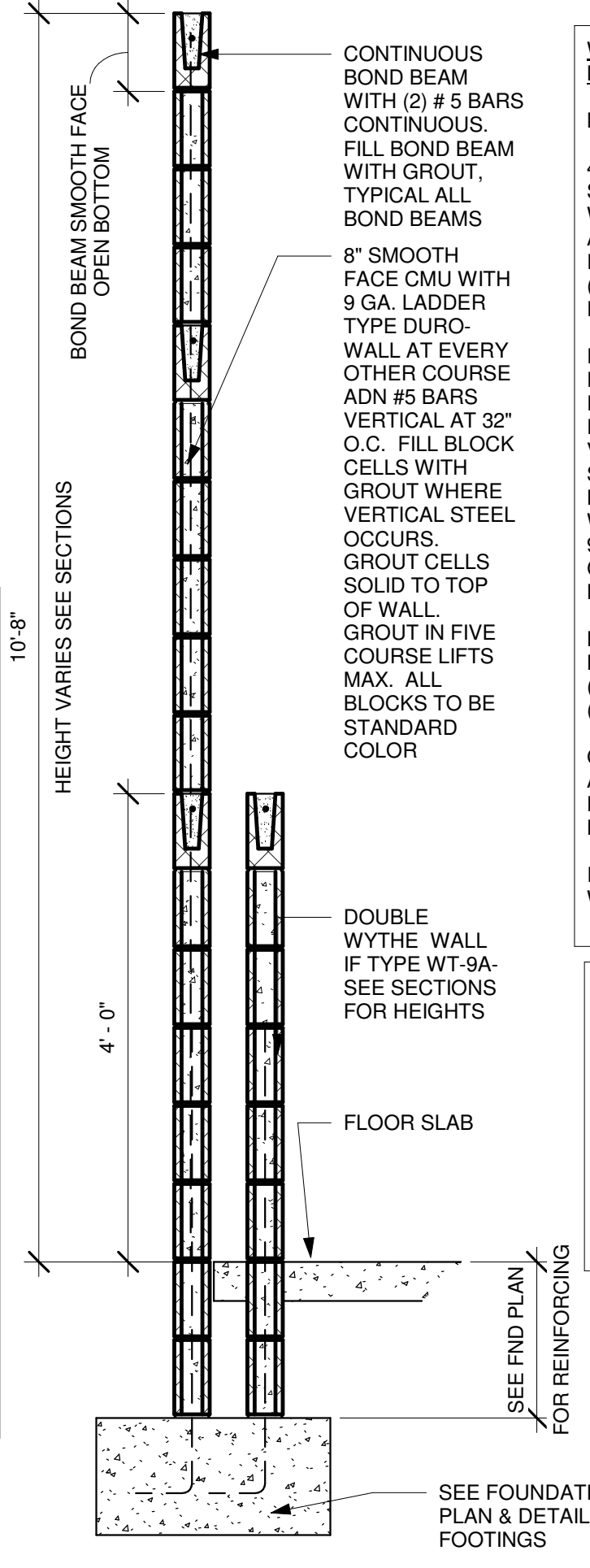
UNRATED PARTITION - PARTIAL HEIGHT - 6" STUDS  
USE 6" MTL STUDS AND RUNNERS

UNRATED PARTITION - PARTIAL HEIGHT - 3 5/8" STUDS  
USE 3 5/8" MTL STUDS AND RUNNERS

1. GYP. BD. TO FULL HEIGHT OF STUDS  
2. OMIT TOP BRACING IF TOP RUNNER IS FULLY SECURED TO STRUCTURE

**WT-8 MASONRY 4" INTERIOR-TOILET**  
PARTITION  
MATERIAL:  
4" MASONRY WALL OF DOUBLE CELL SMOOTH FACE CMU  
(A). START ON DOUBLE ANGLE 12" ABOVE FLOOR SMOOTH FACE FROM DOUBLE ANGLE TO BOND BEAM TOP OUT AT ABOVE FLOOR. BLOCK LAID IN RUNNING BOND.  
REINFORCING:  
CORNER BUTTRESS BLOCKS TO DOWEL INTO SLAB PARTITION WALL UP -1 (QTY) #5 BAR VERTICAL IN 4" CMU CELLS @ EVERY CELL. BARS ARE TO BE LAPPED TO FULL HEIGHT OF WALL AS INDICATED IN LAP SCHEDULE  
9 GAL LADDER TYPE DURO-WALL AT EVERY OTHER COURSE  
BOND BEAMS TO HAVE (2) QTY #3'S CONTINUOUS.  
BOND BEAMS:  
BOND BEAMS SHALL BE SMOOTH FINISH TO OCCUR:  
(A). ABOVE DOUBLE ANGLE  
(B). AT MIDPOINT OF WALL  
(C). AT TOP OF WALL.  
GROUT:  
ALL 4" CMU CELLS SOLID TO FULL HEIGHT OF WALL GROUT IN MAXIMUM 5 COURSE LIFTS GROUT ALL BOND BEAMS SOLID.  
INSULATION:NONE  
WATERPROOFING:NONE

9 A-WALL TYPE WT-8-TOILET  
3/4" = 1'-0"



**WT-9 MASONRY SINGLE WYTHE 4" - INTERIOR**  
MATERIAL:  
4" MASONRY WALL OF DOUBLE CELL CMU, SMOOTH FACE. BRICK TIES ON EXTERIOR FACE WITH 1-1/2" OF POLYURETHANE INSULATION APPLIED TO EXTERIOR FACE. BLOCK LAID IN RUNNING BOND  
(A). SMOOTH FACE CMU FROM FOOTING TO BELOW FINISH GRADE LEVEL  
REINFORCING:  
FROM FOOTING TO FLOOR SLAB-SEE FOUNDATION PLANS FROM FLOOR SLAB AND UP. 1 (QTY) #3 BAR VERTICAL IN CELL AT EVERY 32", EXCEPT WHERE SHOWN OR NOTED ON PLANS.  
BARS ARE TO BE LAPPED TO FULL HEIGHT OF WALL AS INDICATED IN LAP SCHEDULE  
9 GAL LADDER TYPE DURO-WALL AT EVERY OTHER COURSE  
BOND BEAMS TO HAVE (1) QTY #3 CONTINUOUS  
BOND BEAMS:  
BOND BEAMS SHALL BE SMOOTH FINISH  
(A). AT EVERY 4' VERTICALLY CLOSED  
(B). BOND BEAM AT TOP COURSE, CLOSED  
GROUT:  
ALL CELLS WITH VERTICAL REBAR SOLID TO FULL HEIGHT OF WALL GROUT IN MAXIMUM 5 COURSE LIFTS GROUT ALL BOND BEAMS SOLID.  
INSULATION:NONE  
WATERPROOFING:NONE

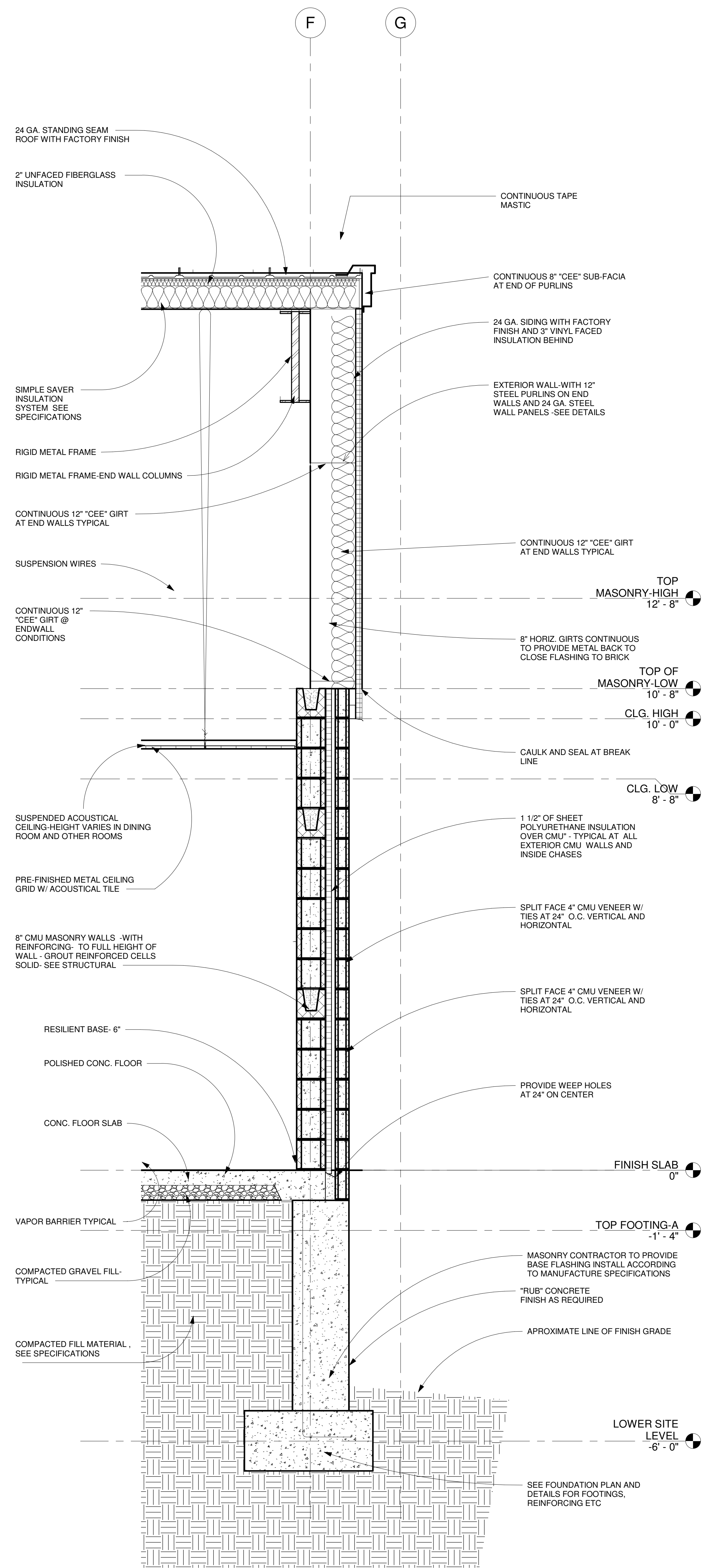
**WT-9A MASONRY -DOUBLE WYTHE 4" - INTERIOR**  
MATERIAL:  
ALL THE SAME SAME AS WT-9 EXCEPT A DOUBLE 4" WYTHE  
INSULATION:NONE  
WATERPROOFING:NONE

6 A-EXTERIOR WALL TYPE INTERIOR WT-9  
3/4" = 1'-0"

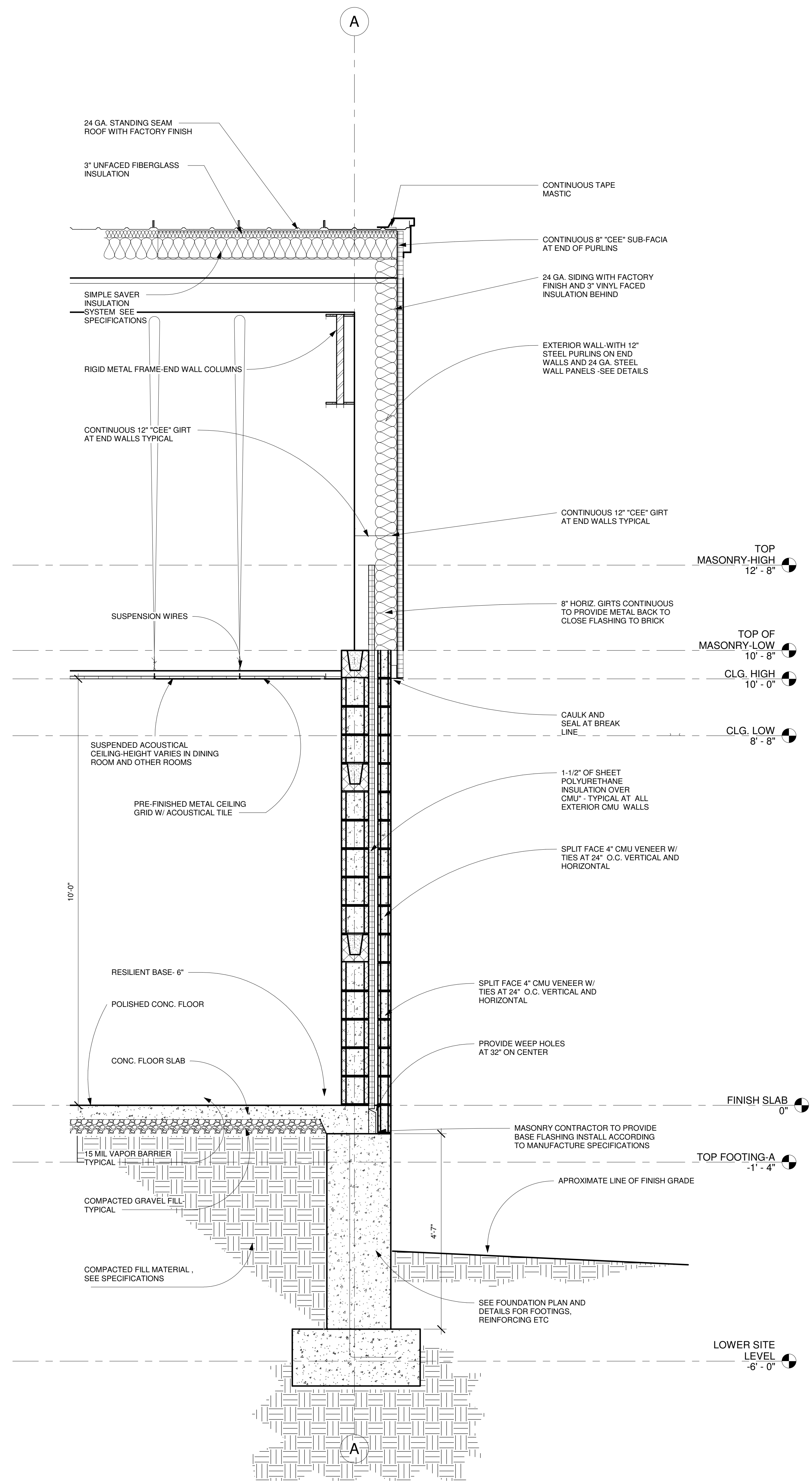
ISSUE DATE: 12-27-2020

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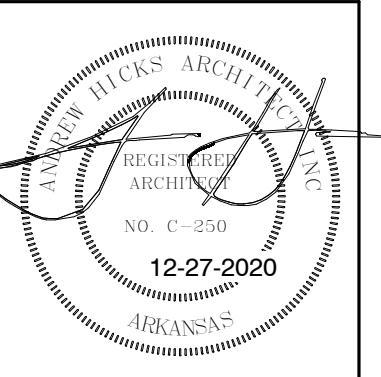




1 WALL SECTION AT GABLE END-KITCHEN  
3/4" = 1'-0"



2 WALL SECTION AT GABLE END-STORM  
SHELTER  
3/4" = 1'-0"



ARCHITECT OF RECORD  
ANDREW F. HICKS

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FOR  
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HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

andrew hicks | architect

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www.andrewhicksarchitect.com

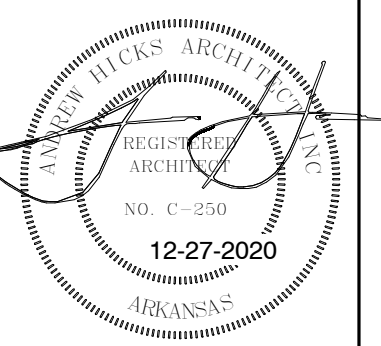
333 W Poplar / Suite B  
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ISSUE DATE: 12-27-2020

REVISIONS	
NO.	DATE

WALL SECTIONS

A402



ARCHITECT OF RECORD  
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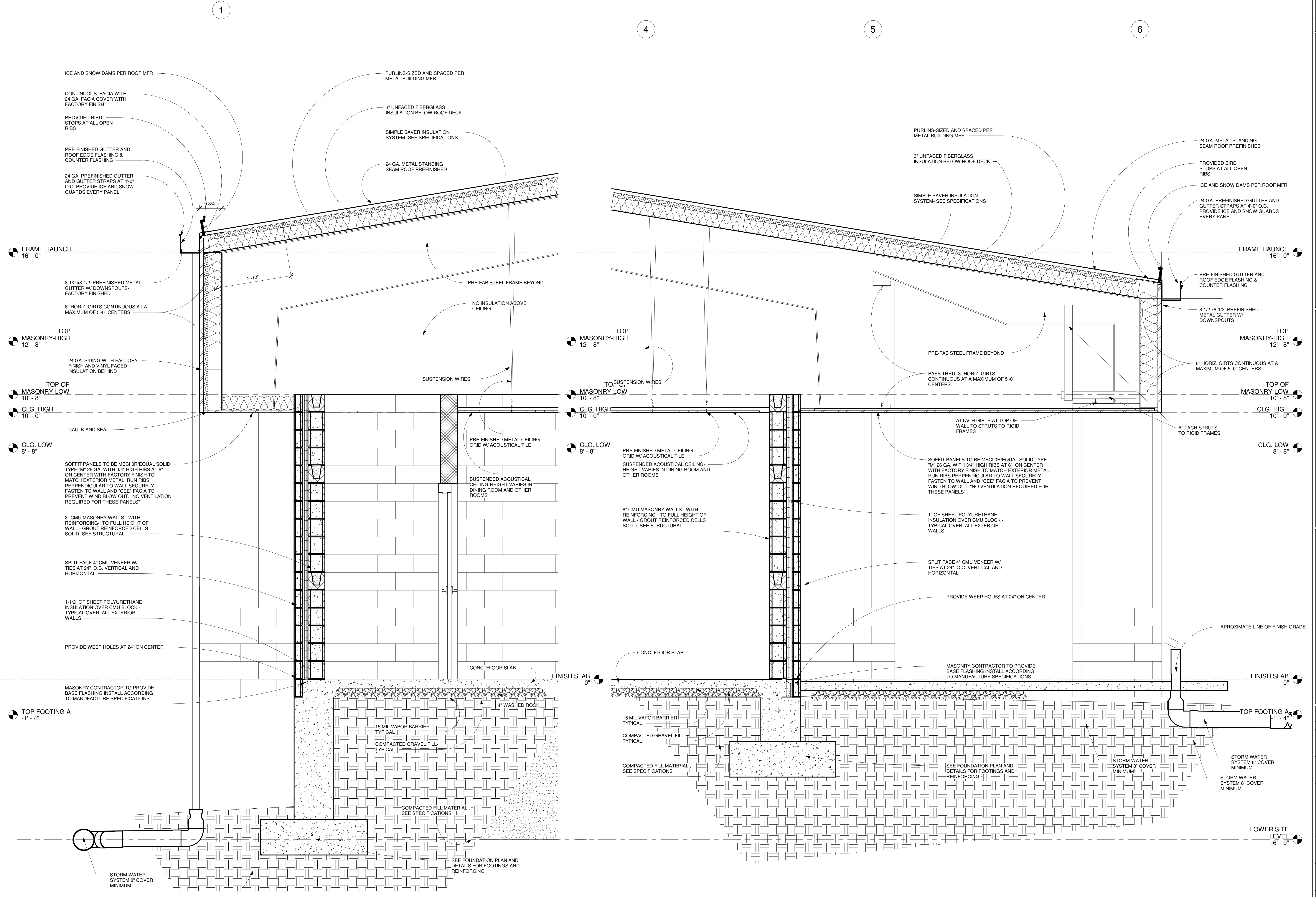
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ISSUE DATE: 12-27-2020

REVISIONS	NO.	DATE

WALL SECTIONS

**A403**

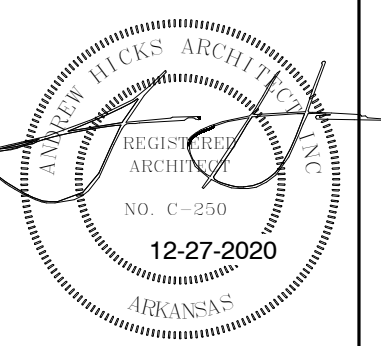


FILL IS REQUIRED TO ACHIEVE REQUIRED SOIL DENSITY A MINIMUM OF 24" OF STRUCTURAL FILL WILL BE PLACED BELOW FLOOR SLABS AND FOOTINGS. PERFORM OVER EXCAVATION AT AREAS THAT DO NOT ACHIEVE 24" OF FILL DEPTH. (SEE SPECIFICATIONS)

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

WALL SECTION THRU SIDEWALL AT ENTRY  
3/4" = 1'-0"





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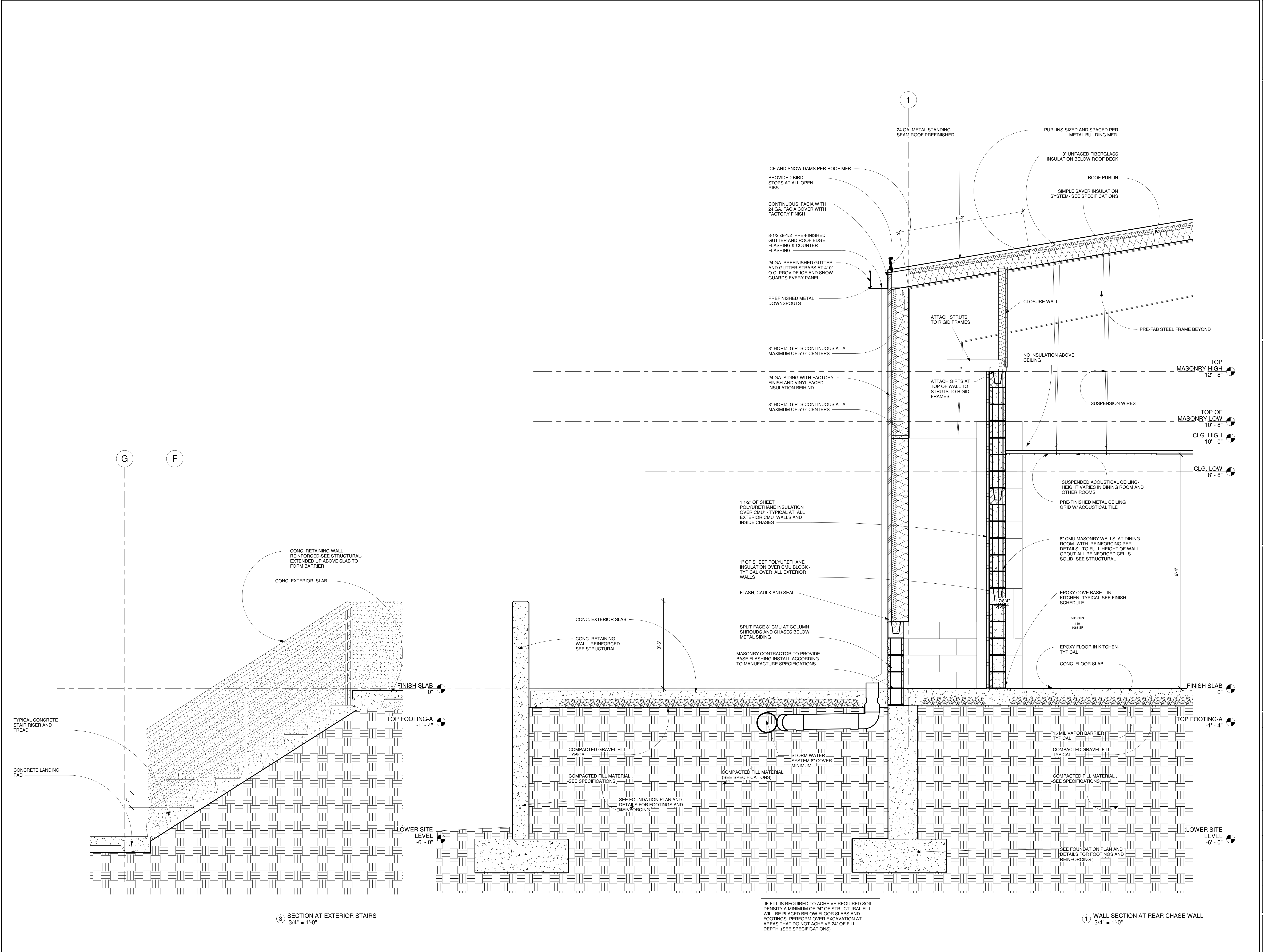
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WALL SECTIONS

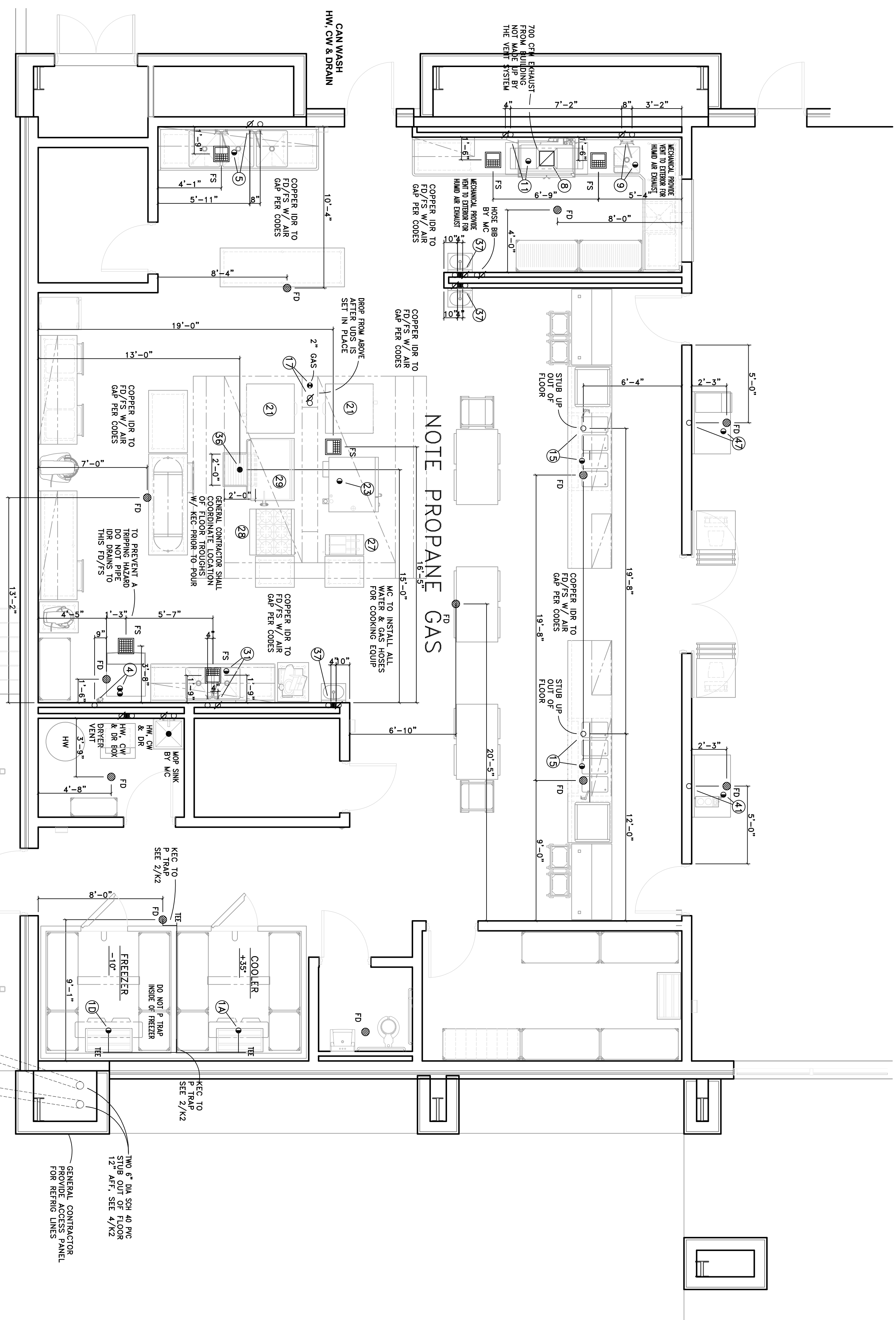
**A404**







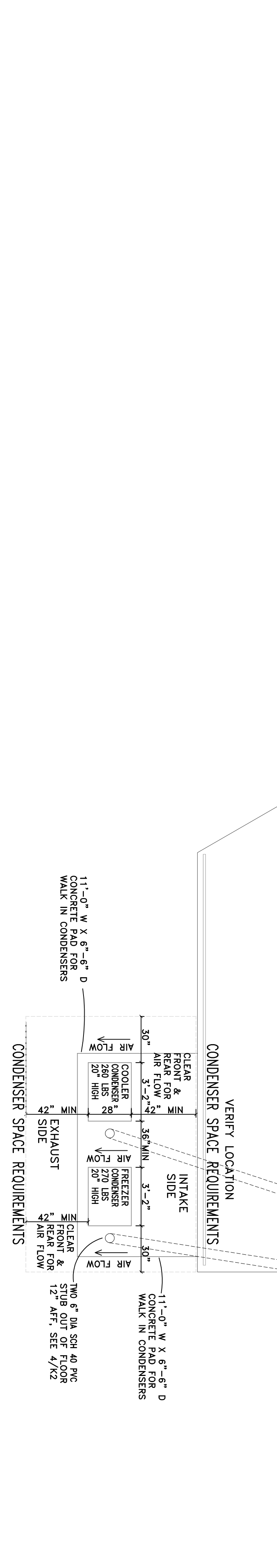
NOTE PROPANE GAS



KITCHEN EQUIPMENT PLUMBING REQUIREMENTS								
NO	QTY	ITEM	WATER	DRAIN	GAS	REMARKS		
1	1		CW	HW	DR	IBR	SIZE	MHI
1	1	WALK IN COOLER						
1A	1	WALK IN COOLER EXHAUST COIL			1"		SEE 2/42	
1B	1	WALK IN COOLER CONDENSER			1"		SEE 2/42	
1C	1	WALK IN FREEZER EXHAUST COIL			1"		SEE 2/42	
1E	1	WALK IN FREEZER CONDENSER			1"		SEE 2/42	
2	10	WALK IN SHELVING						
2	7	DRY STORAGE SHELVING						
5	1	POT & PAN SINK	1/2"	80"	2 1/4"		BIC - CW HUBU FILTER - IOR TO FS	
5	1	POT & PAN SINK	3/4"	3/4"	16"		BIC - TIE TO TWO FAUCETS - IOR TO FS	
6	2	DISH DRIVING MACK						
6	1	DISH DRIVING MACK						
6	1	SOLID DISPENSER						
9	1	QMT - REFRIG/DRY MIN HW - 156 SHN, 20 PSI	1/2"	1/2"	16"		SEE ITEM 11	
10	1	CLEAN DISPENSER						
12	1	CLEAN DISPENSER						
13	2	MILK COOLER					BIC - 156 GRN, 1460 MIN HW - IOR TO FS	
14	4	TRAY CART COUNTER						
15	1	US					BIC - IOR TO FS	
16	4	FAT TOP COUNTER						
17	1	US					2" - IOR TO FS	
18	1	US						
19	1	US						
20	1	40 QUART WATER					3/4" 110 MC INSTALL GAS HOSE	
21	2	CONVECTION OVEN					3/4" 230 MC INSTALL GAS HOSE	
22	1	CHEF/PROPAGATOR CABINET					3/4" 212 BIC - IOR TO FS - MC INSTALL ALL HOSES	
24	2	WORK TABLE						
25	1	REFRIGERATOR						
26	1	REFRIGERATOR					3/4" 120 MC INSTALL GAS HOSE	
27	1	FRIGER					3/4" 230 MC INSTALL GAS HOSE	
28	1	BRASSING PAN					3/4" 130 MC INSTALL WATER/GAS HOSE	
29	1	FRIGER					BIC - FAUCET - IOR TO FS	
30	1	PREPARATION TABLE					2"	
31	1	SHELF						
32	1	SHELF						
33	1	50 QUART WATER						
34	1	CASHIER'S COUNTER						
35	2	CASHIER'S COUNTER						
36	1	FLOOR TROUGH					1/2" 1/2" 16" - 8"	DR PIPE 8" BELOW FINISHED FLOOR - SEE 3/42
37	1	HOOD SINK					1/2" 1/2" 16" - 18"	BY MECHANICAL CONTRACTOR
38	1	HOOD SINK					2" - 18"	BY MECHANICAL CONTRACTOR
40	1	HOOD PANS					1/2"	BY MECHANICAL CONTRACTOR
41	1	HOOD PANS					1"	BY MECHANICAL CONTRACTOR
42	2	BUILD PAN MACK						
43	1	TABLE						
44	1	COOK'S TABLE						
45	1	TABLE						
46	2	HEATED MECHANISER						
47	1	CE/WATER DISPENSER	1/2"	24"			BIC - IOR TO FS	

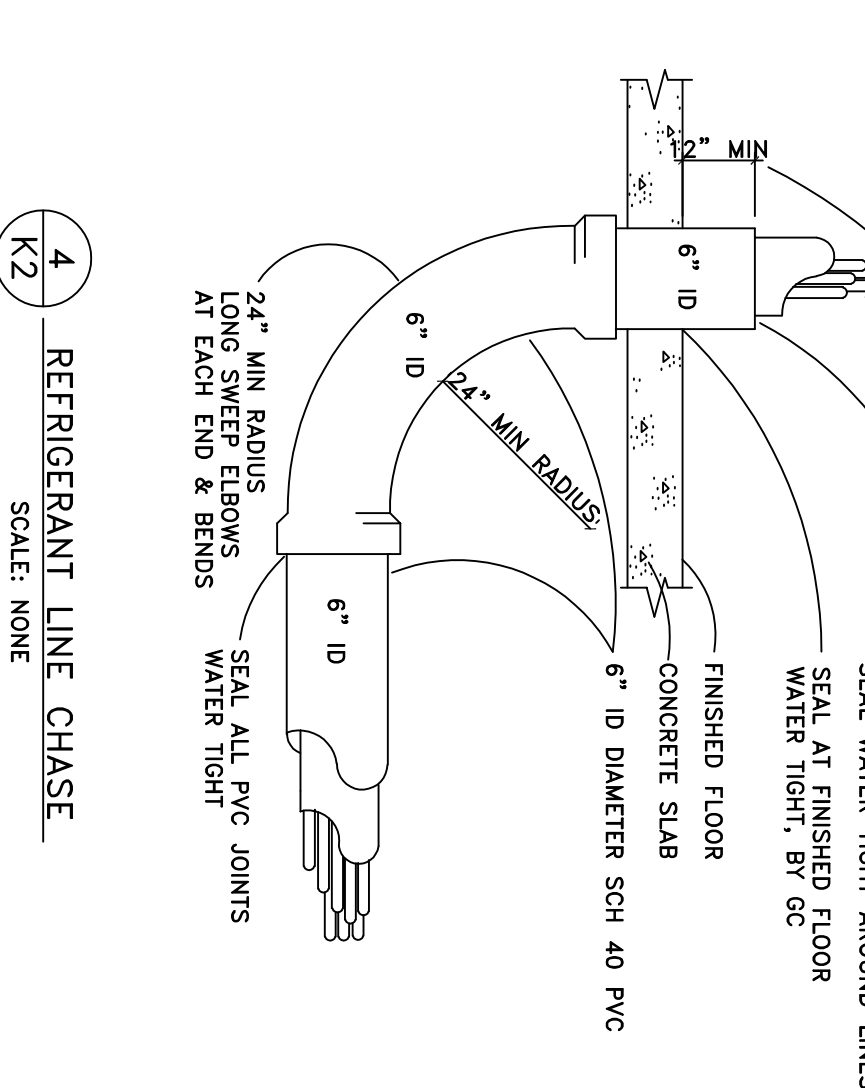
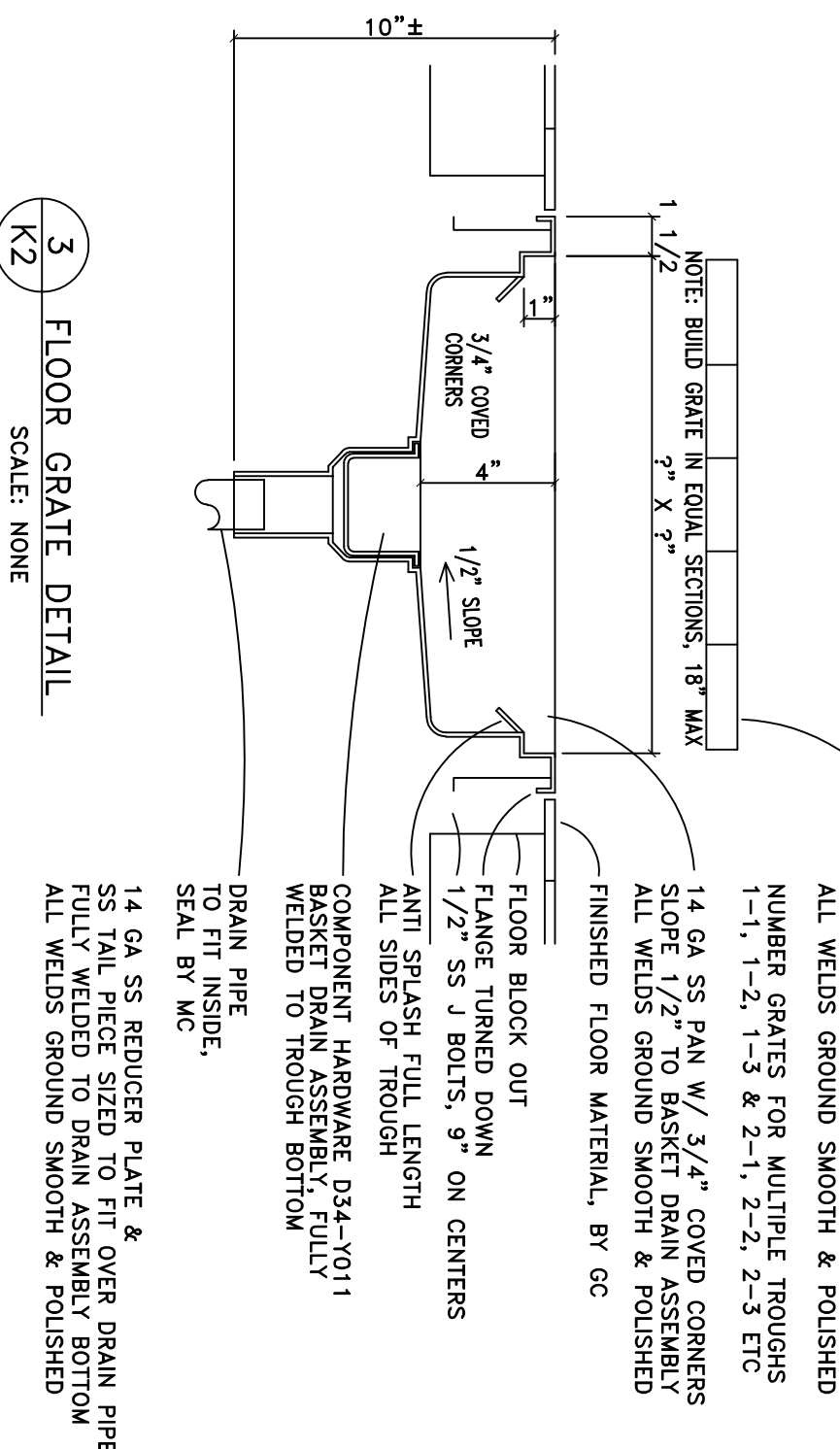
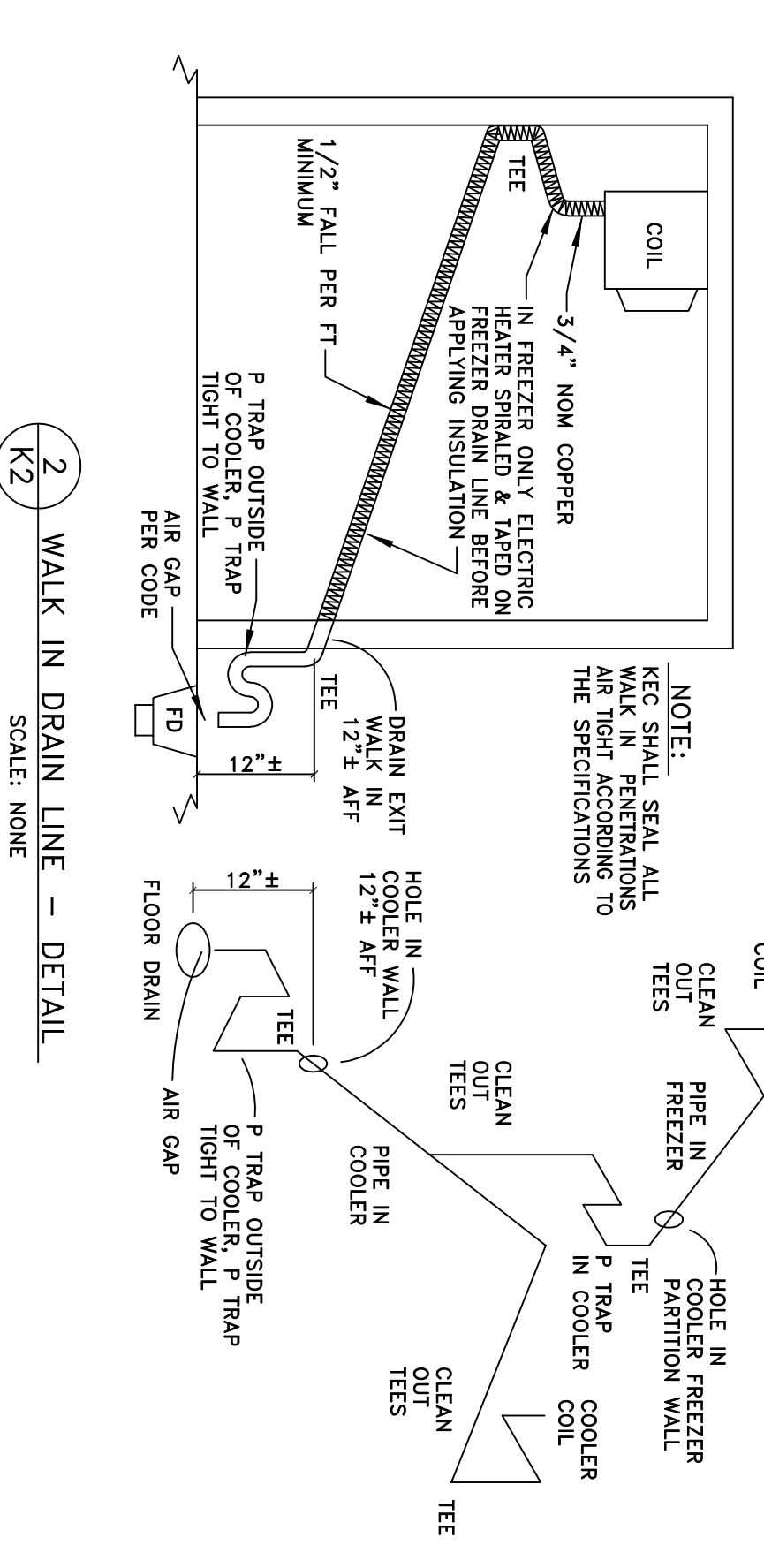
KITCHEN EQUIPMENT PLUMBING PLAN

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



PLUMBING LEGEND	
o	CW COLD WATER
h	HW HOT WATER
g	GAS
•	DR DRAIN
•	IBR INDIRECT DRAIN, MC EXTEND TO FD/FS
•	FD FLOOR DRAIN
•	FRD FRENEL FLOOR DRAIN
•	FS FLOOR SINK W/ GRATE TOP SIZE SHOWN
•	AFB ABOVE FINISHED FLOOR
•	DFA DROP FROM ABOVE
•	KCC KITCHEN EQUIPMENT CONTRACTOR
•	MHI MHI 000'S BRITISH THERMAL UNIT PER HOUR
•	MC MECHANICAL CONTRACTOR
•	SV SOLVENT VALVE
•	VIB VACUUM BREAKER
•	GT GREASE TRAP

- KITCHEN EQUIPMENT PLUMBING GENERAL NOTES**
- MC TO PROVIDE FINAL CONNECTIONS TO ALL KITCHEN EQUIPMENT ITEMS PER LOCAL, STATE, & NATIONAL PLUMBING CODES
  - MC TO VERIFY REQUIREMENTS OF ALL KITCHEN EQUIPMENT ITEMS PROVIDED BY OTHERS AND/OR EXISTING BEFORE REWORKING IN AND MAKING FINAL CONNECTIONS
  - MC TO FURNISH & INSTALL ALL SHUTOFF VALVES, SHOCK ABSORBERS, SNAP ACTION LINES, ETC FOR ALL KITCHEN EQUIPMENT ITEMS
  - MC TO FLUSH ALL LINES BEFORE MAKING FINAL CONNECTIONS
  - SEE ARCHITECT DRAWINGS FOR CONTINUATION OF PLUMBING OUTLETS
  - ROUGH IN REQUIREMENTS FOR OTHER ITEMS ARE TO BE SET FORTH BY OTHERS
  - ALL ROUGH IN MATERIAL SHALL BE RIM UNEXPOSED
  - EXIT WALK-IN & EXTEND TO FLOOR SINK - TRAP TO PREVENT AIR
  - COOLER & FREEZER BLOWER COIL - SLOPE DRAIN LINES TO LOWEST POINT
  - CONDENSER DRAIN LINE TO FREEZER & COOLER COMPARTMENTS PER SPECIFICATIONS, GC
  - DO NOT PROVIDE & SEAL ALL PENETRATIONS THRU BUILDING ROOF, WALLS, ETC
  - DO NOT CONNECT DISPOSERS TO GREASE TRAP
  - MC TO INSTALL ALL HAND SINKS & MOP SINKS
  - MECHANICAL ENGINEER TO DETERMINE GAS FEEDER SIZE FROM WATER AND DELIVER 5.0" W.C. PRESSURE AT SERVICE FOR KITCHEN EQUIPMENT.



**REFRIGERANT LINE CHASE**

SCALE: NONE

**ISSUE DATE:** 12-27-2020

**REVISIONS:**

NO.	DATE
NO.	
NO.	
NO.	
NO.	

**KITCHEN EQUIPMENT PLUMBING PLAN**

**MCKAY CONSULTING LTD**  
 479-785-8121  
 1500 W. HANCOCK ST. #200  
 FORT SMITH, AR 72204

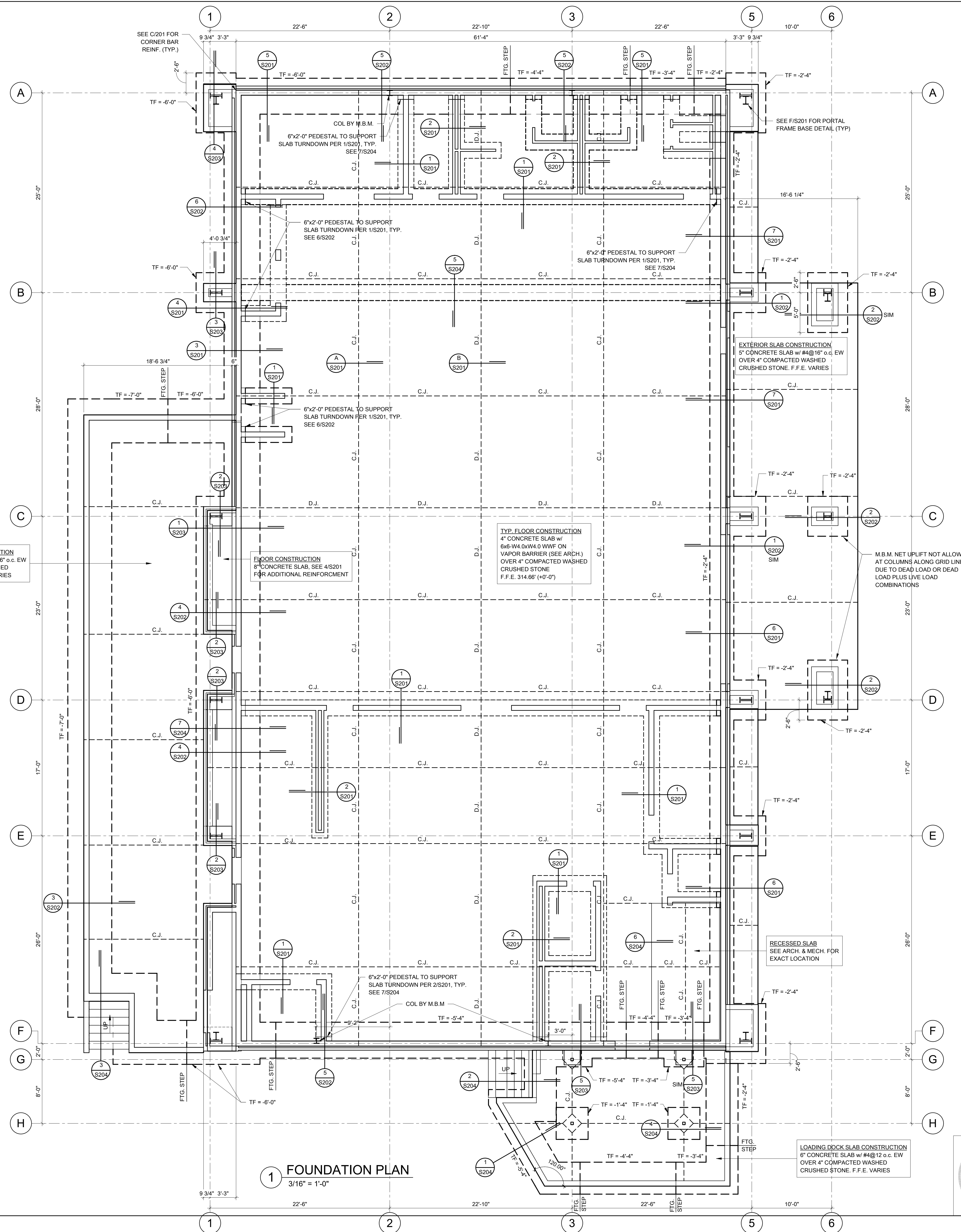
**andrew hicks architect**  
**AHA**  
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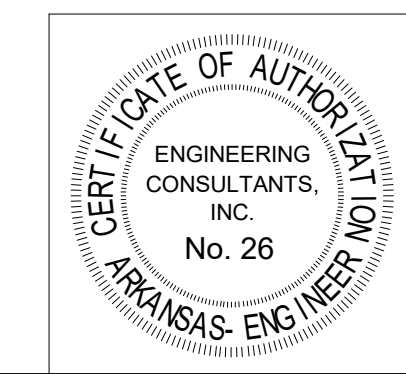




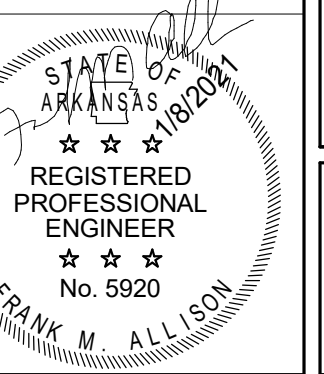




1 FOUNDATION PLAN  
3/16" = 1'-0"



**Engineering Consultants, Inc.**  
Structural Engineers  
401 West Capitol Avenue, Suite 305  
Little Rock, Arkansas 72201-3401  
Phone No: (501) 376-3752  
Fax No: (501) 376-7314  
JOB# 20-083



12-27-2020  
ARCHITECT OF RECORD  
ANDREW F. HICKS

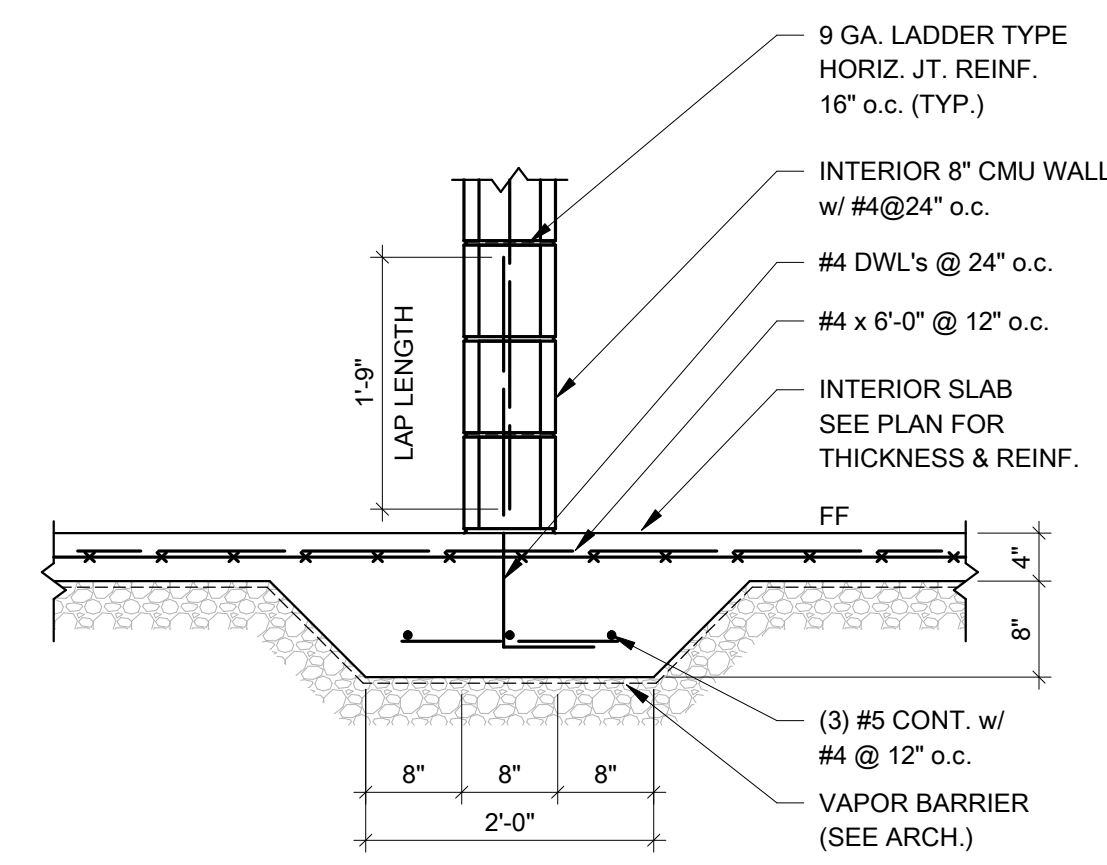
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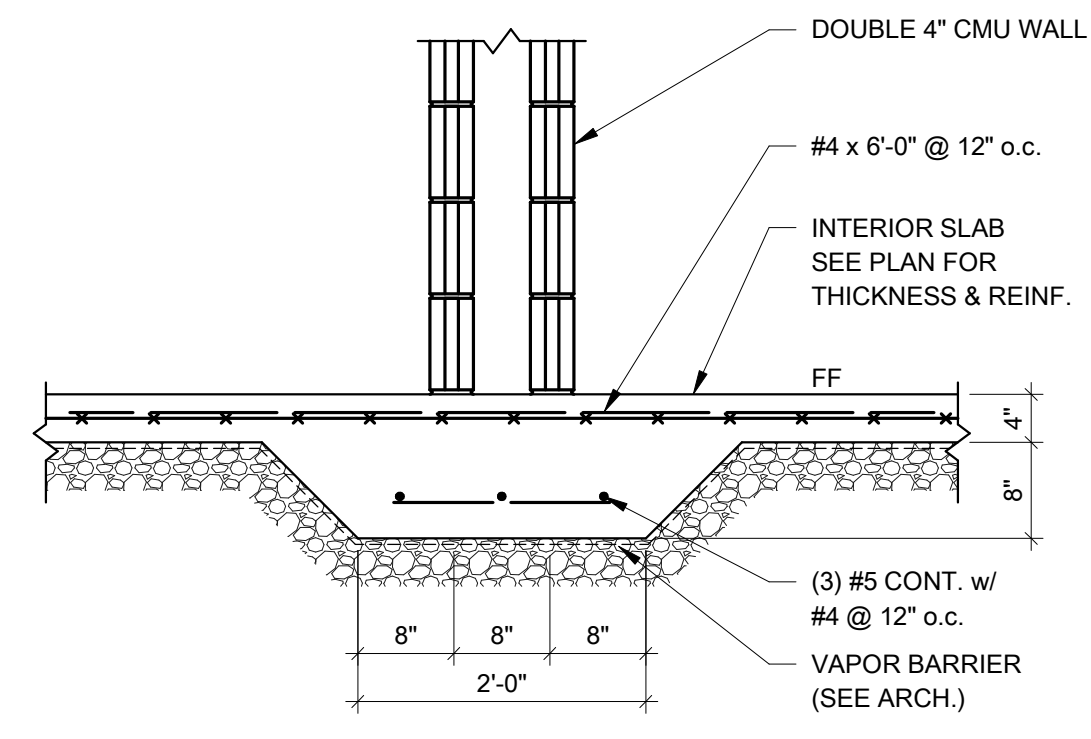
ISSUE DATE: 12-27-2020	
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FOUNDATION PLAN  
**S101**

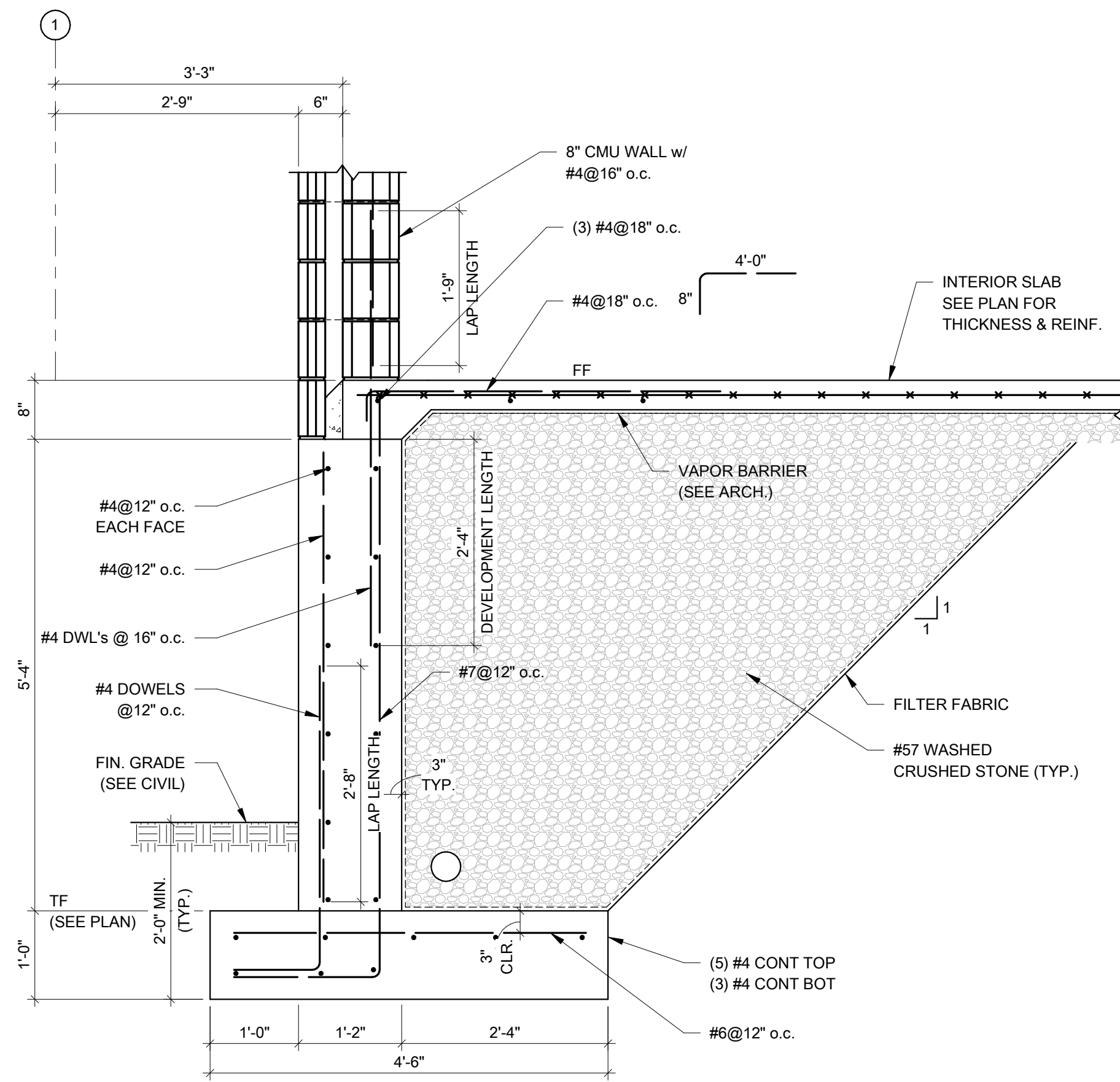




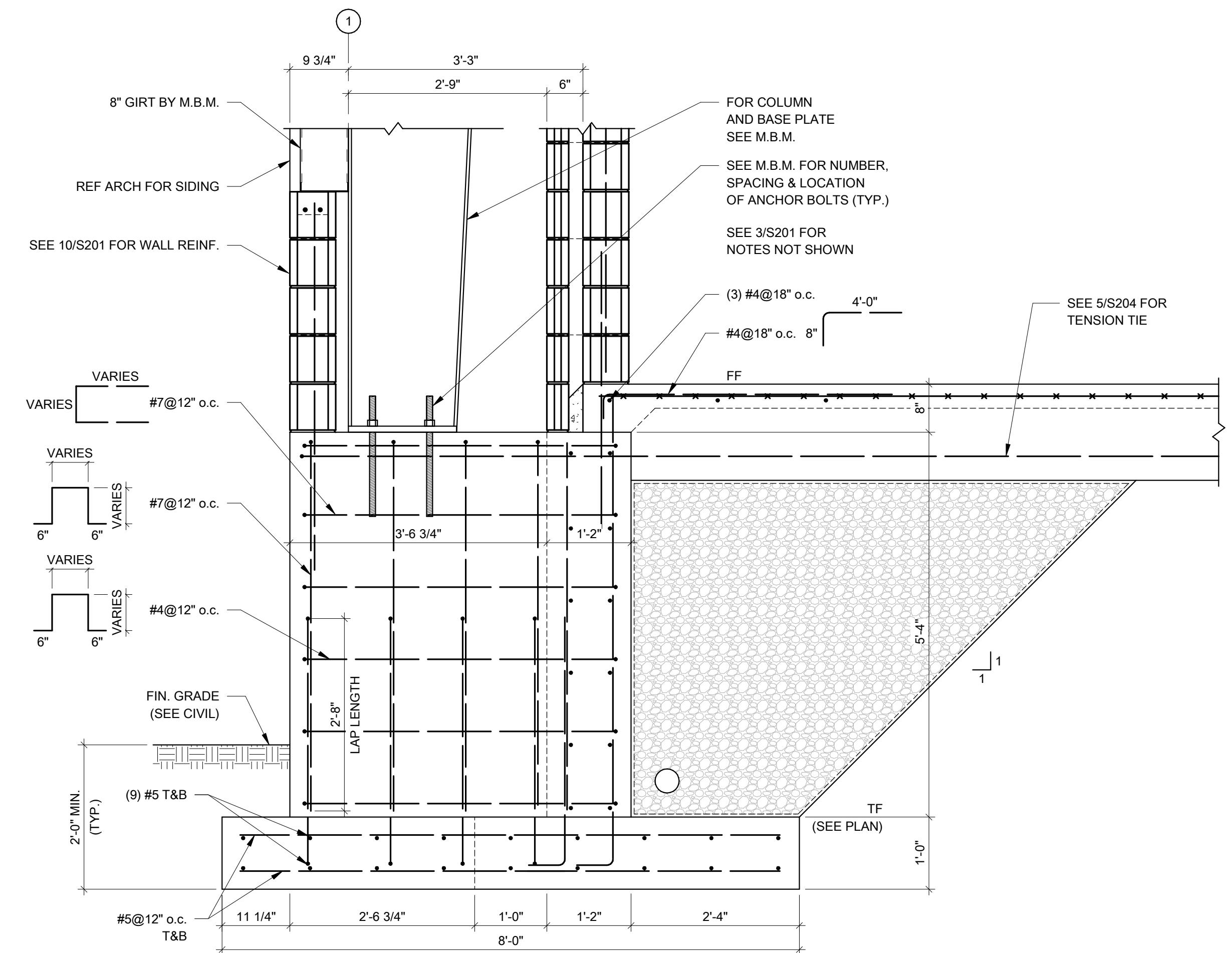
**1 SECTION**  
3/4" = 1'-0"



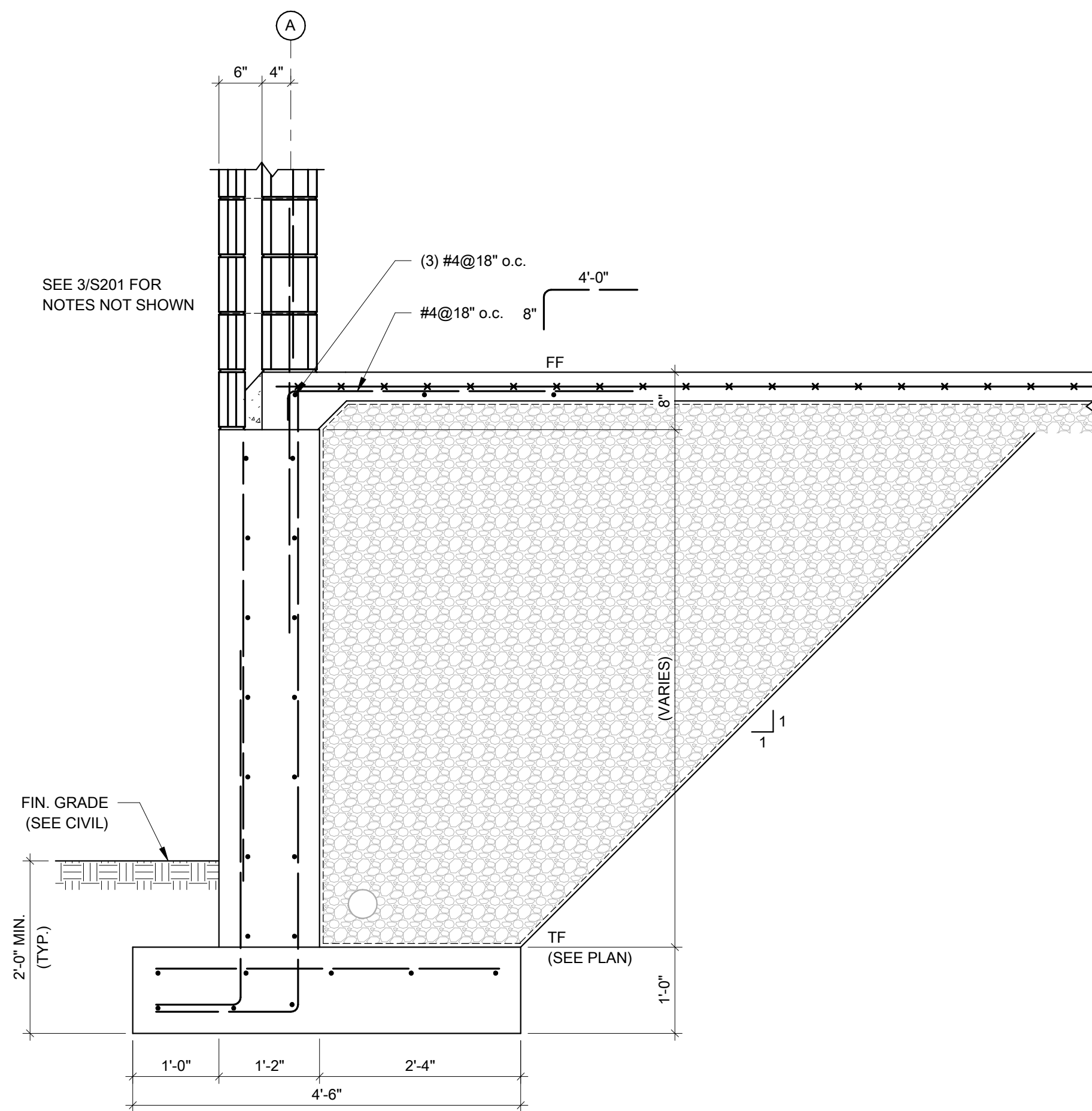
**2 SECTION**  
3/4" = 1'-0"



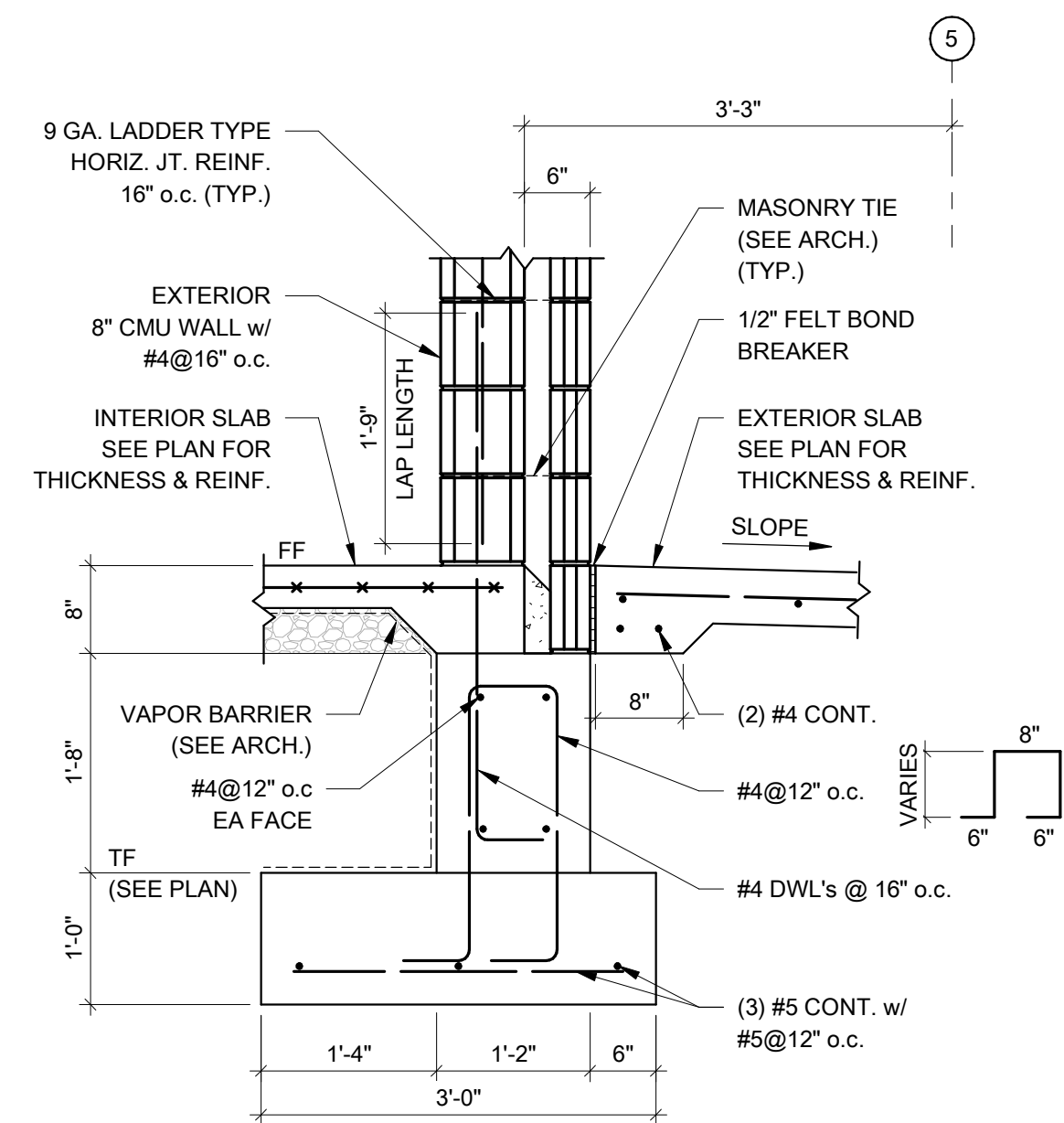
**3 SECTION**  
3/4" = 1'-0"



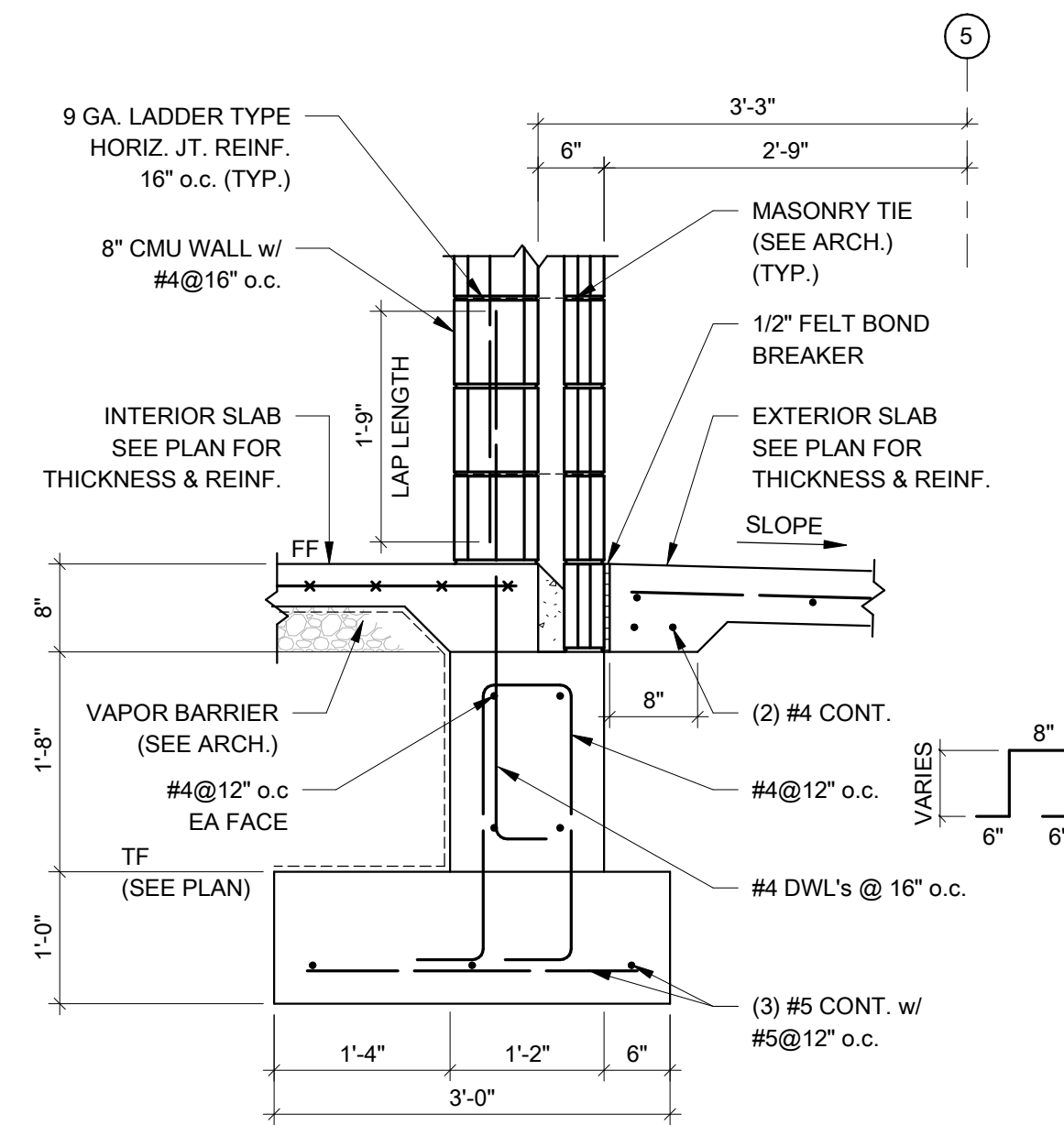
**4 SECTION**  
3/4" = 1'-0"



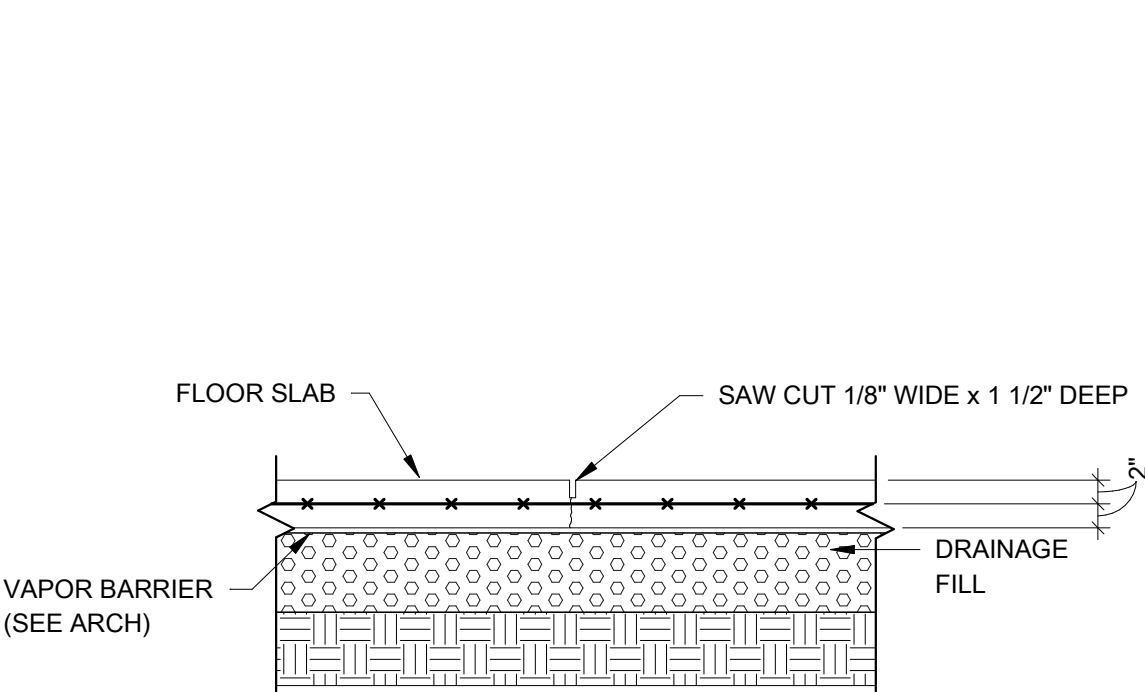
**5 SECTION**  
3/4" = 1'-0"



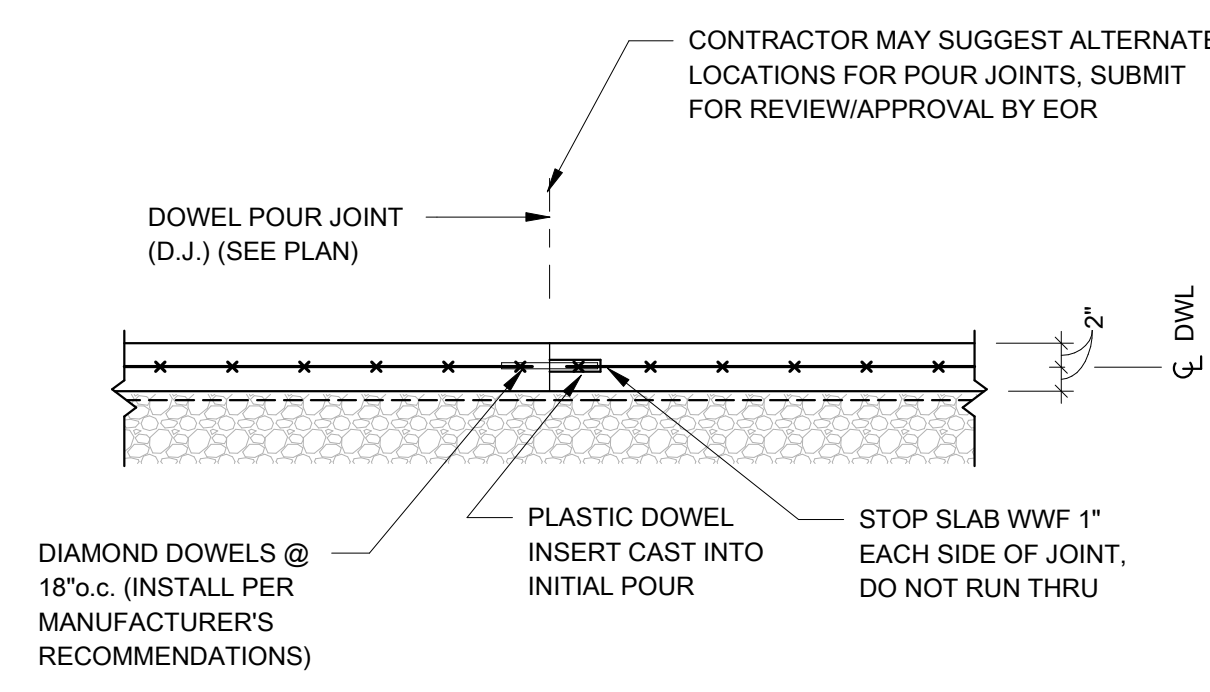
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3/4" = 1'-0"



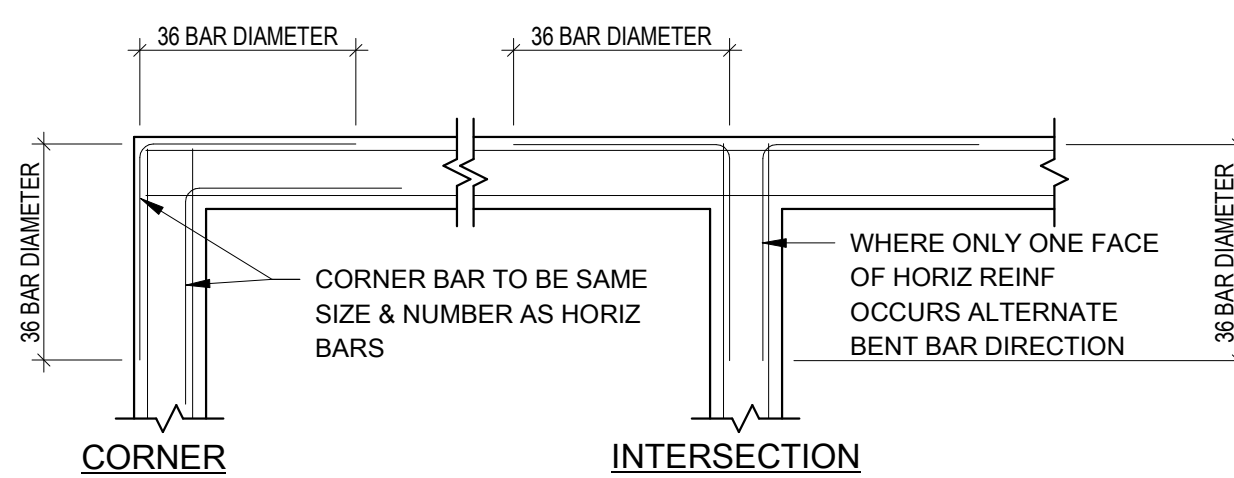
**7 SECTION**  
3/4" = 1'-0"



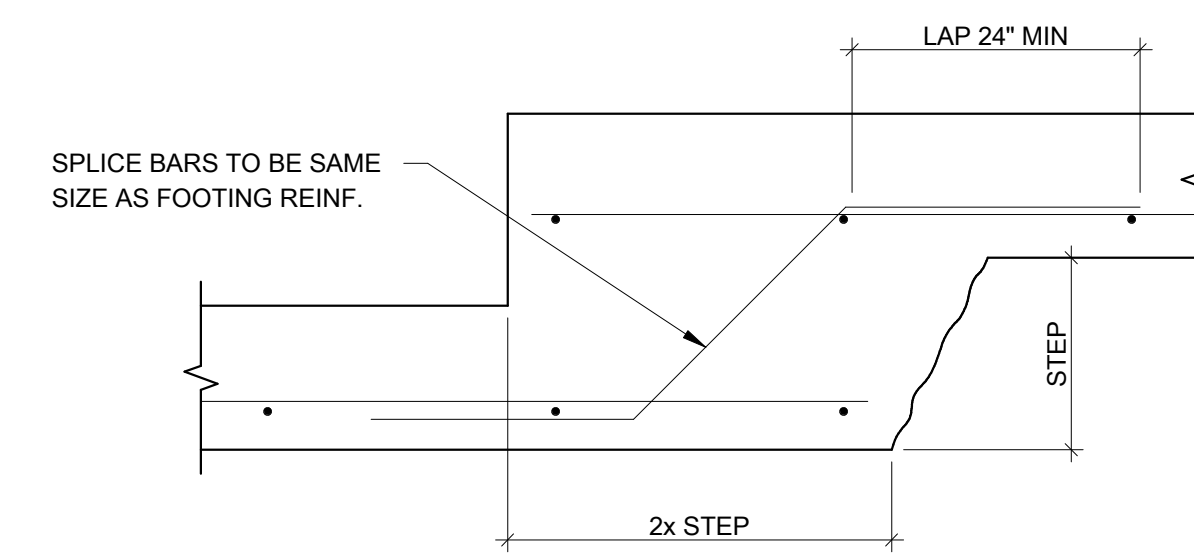
**A CONTROL JOINT DETAIL**  
3/4" = 1'-0"



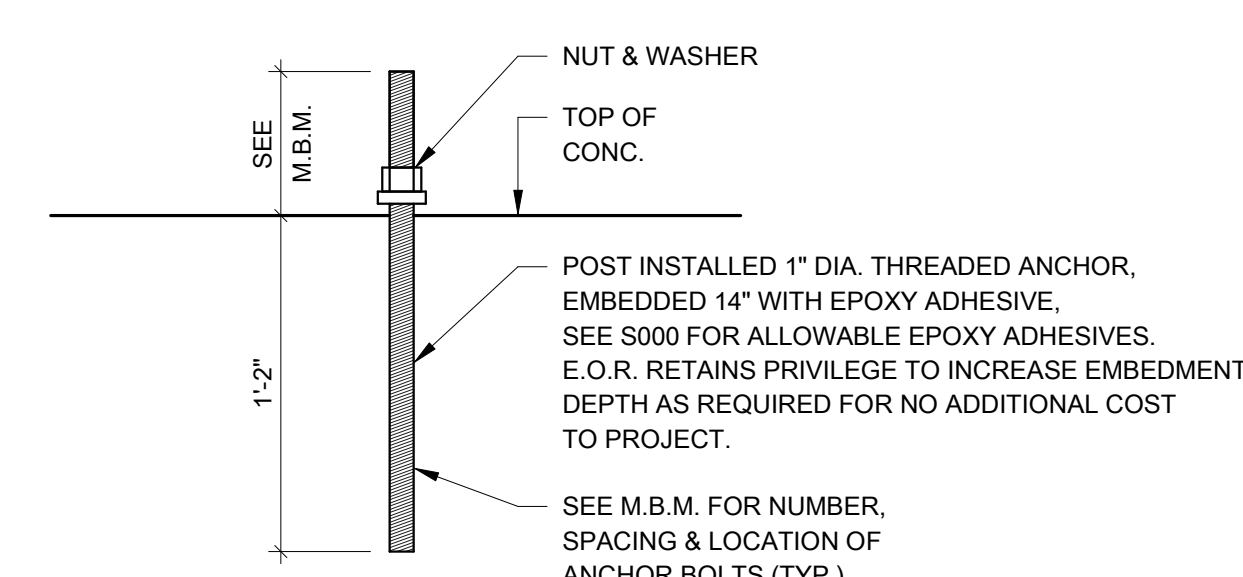
**B TYP. CONTROL JOINT w/ DOWELS**  
3/4" = 1'-0"



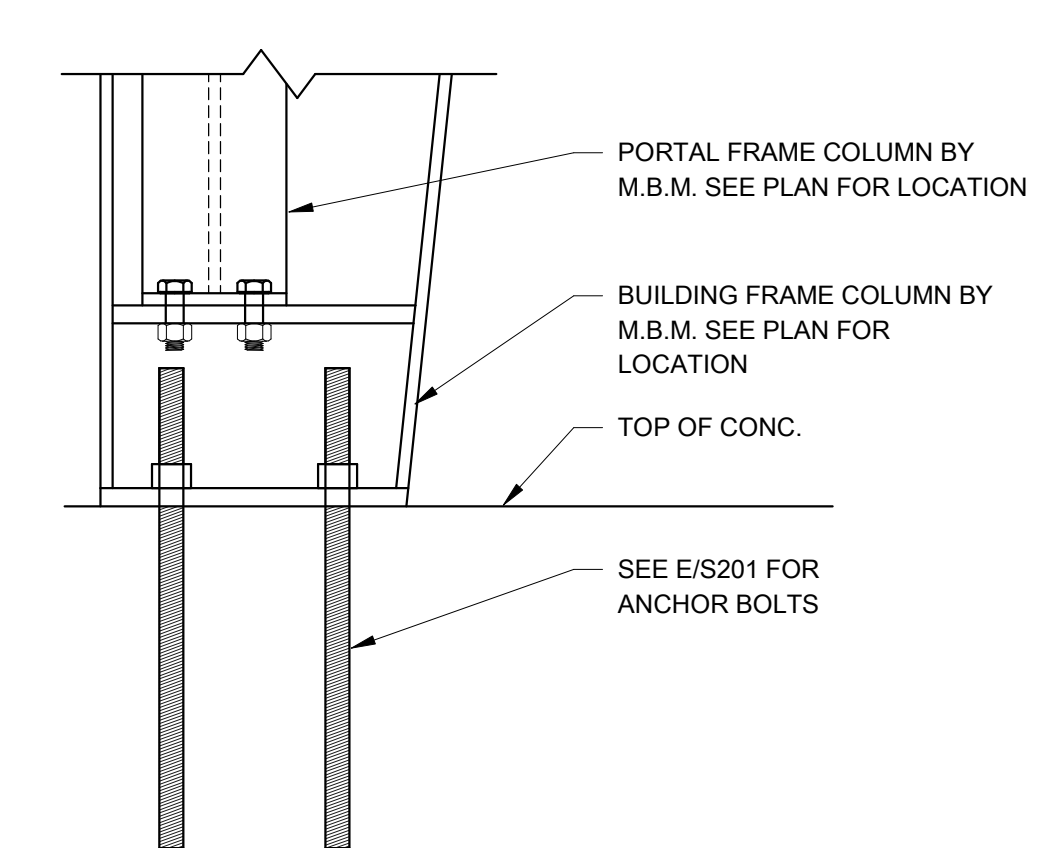
**C TYP. CORNER BAR DETAIL**  
3/4" = 1'-0"



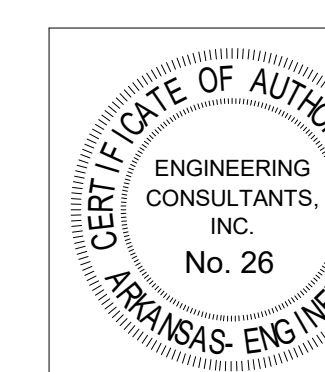
**D TYP. FOOTING STEP DETAIL**  
3/4" = 1'-0"



**E TYP. ANCHOR BOLT DETAIL**  
1 1/2" = 1'-0"



**F TYPICAL PORTAL FRAME BASE CONNECTION**  
1 1/2" = 1'-0"



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JOB# 20-083



12-27-2020

ARCHITECT OF RECORD  
ANDREW F. HICKS

**CAFETERIA AND MULTI-PURPOSE ROOM**

Project Number: 1920-3809-001  
FOR  
HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

**andrew hicks | architect**  
**AHFA**  
479.393.8600  
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Fayetteville, Arkansas 72702

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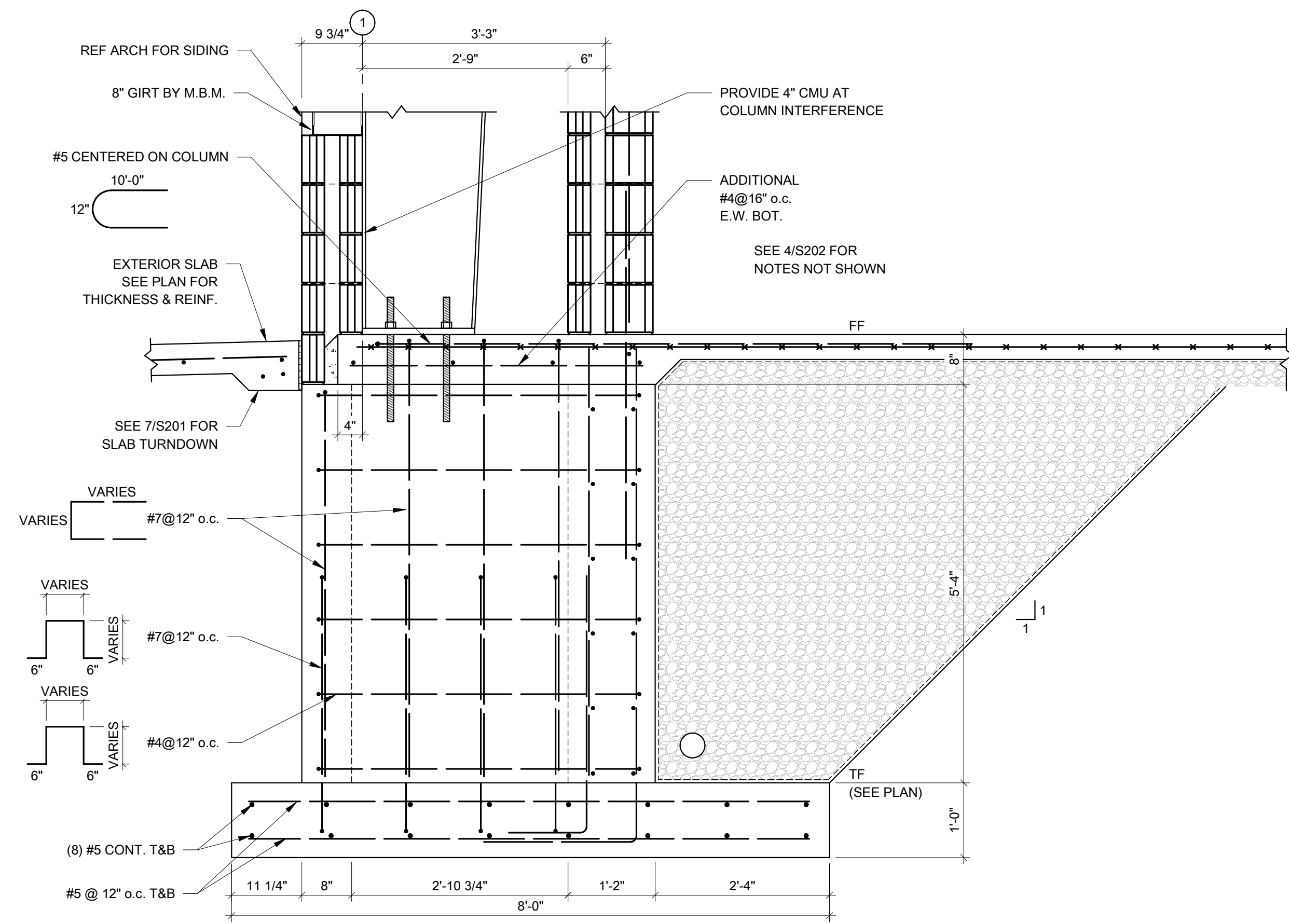
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NO.	DATE

FOUNDATION DETAILS

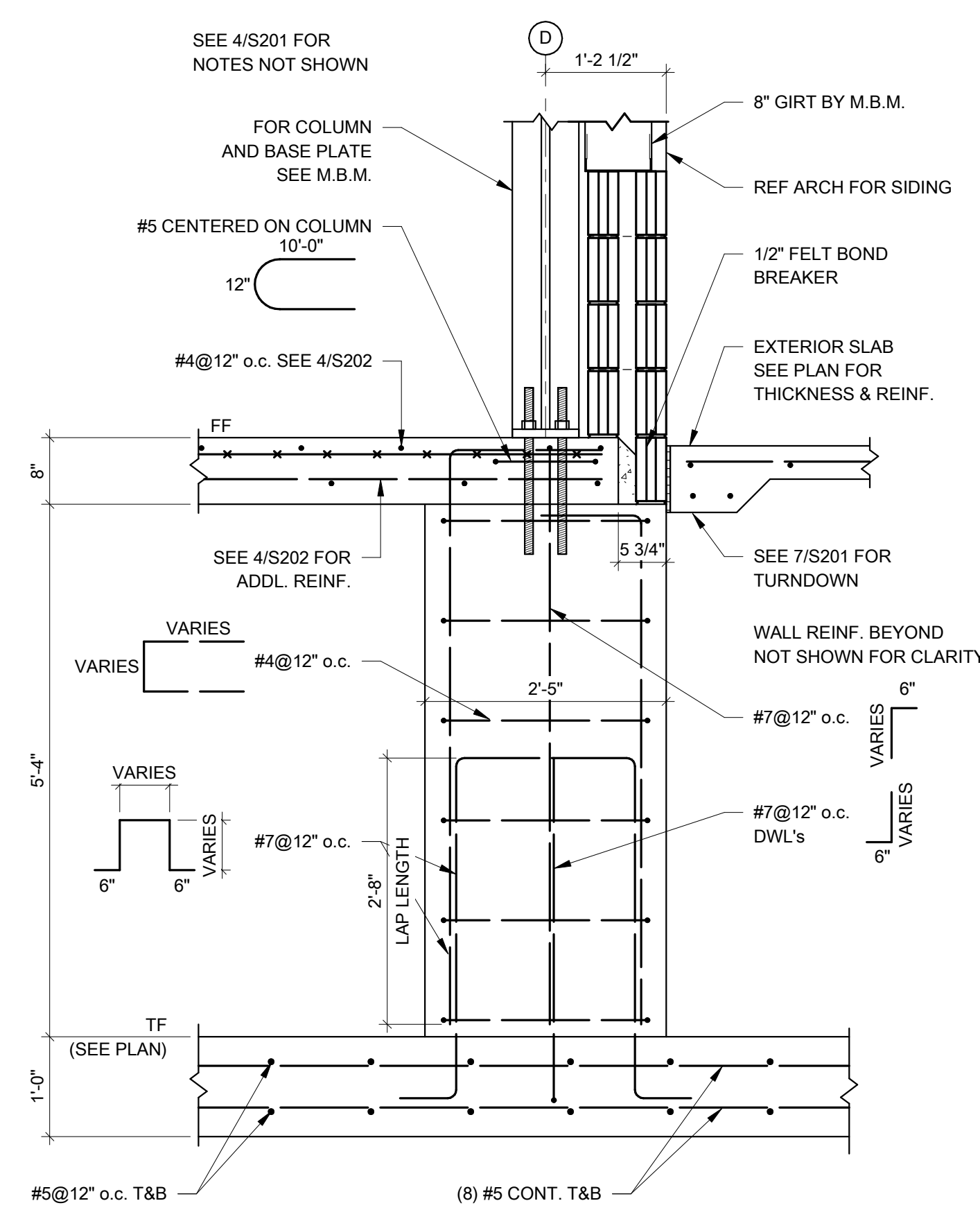
**S201**



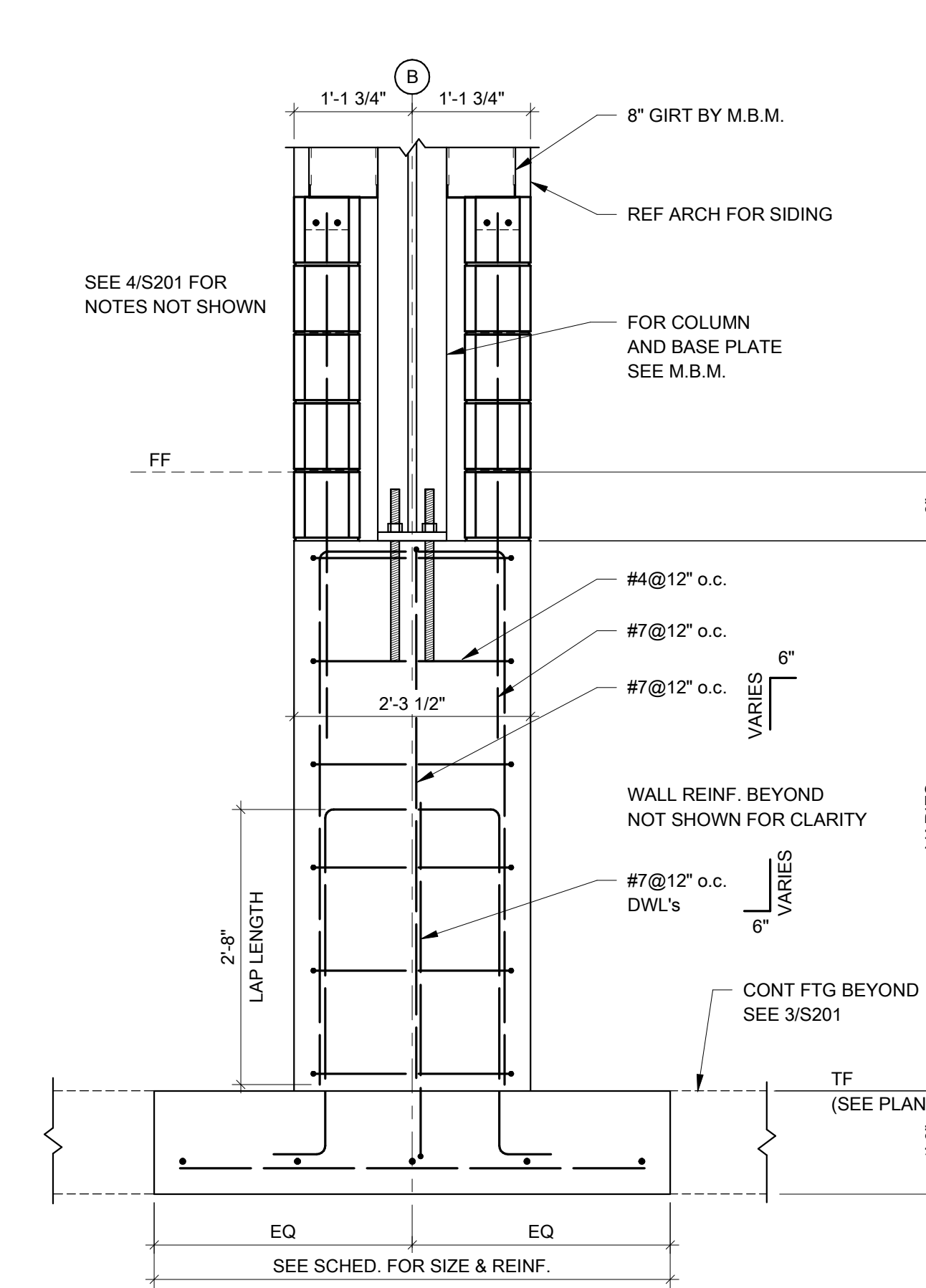




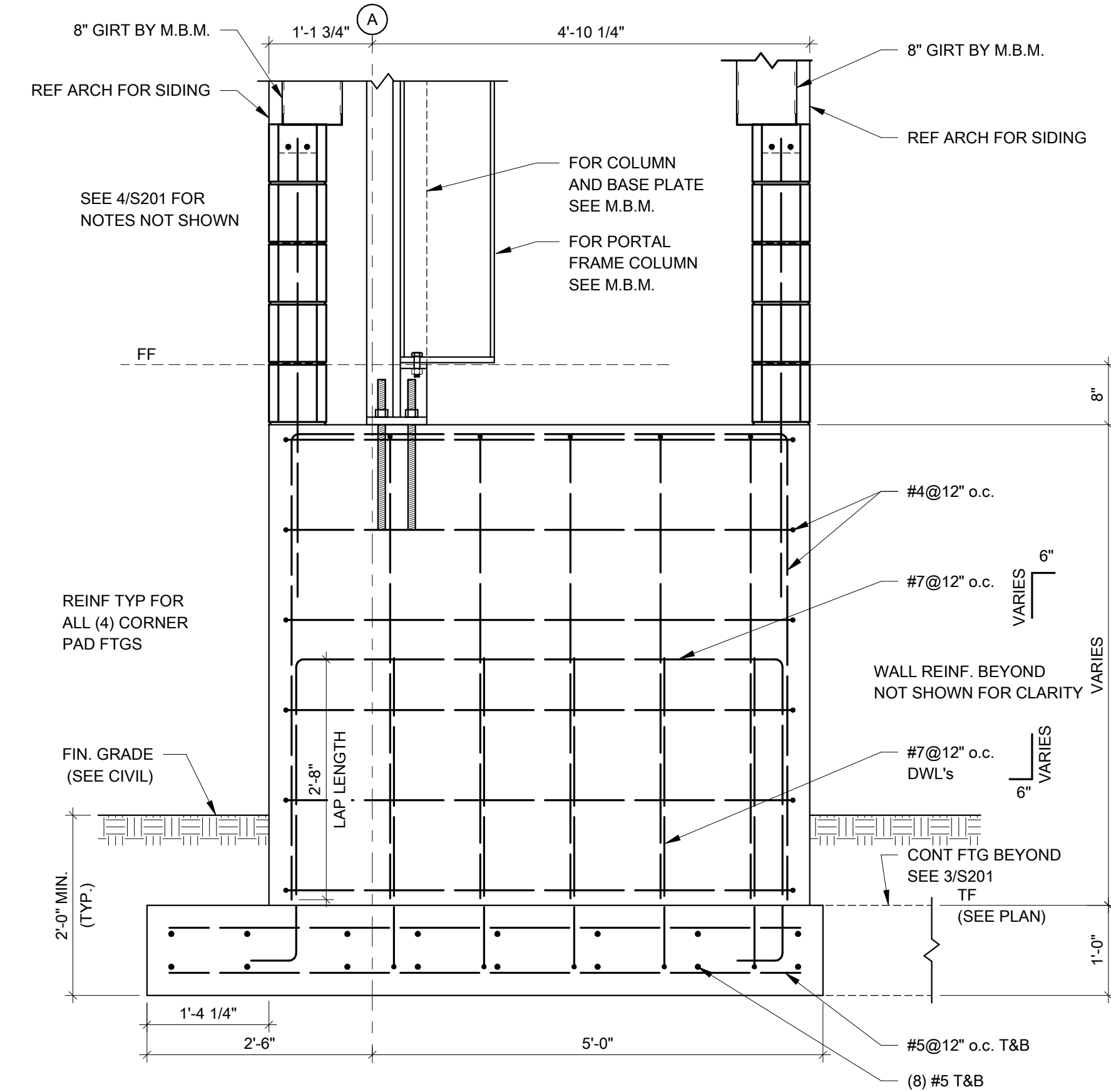
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3/4" = 1'-0"



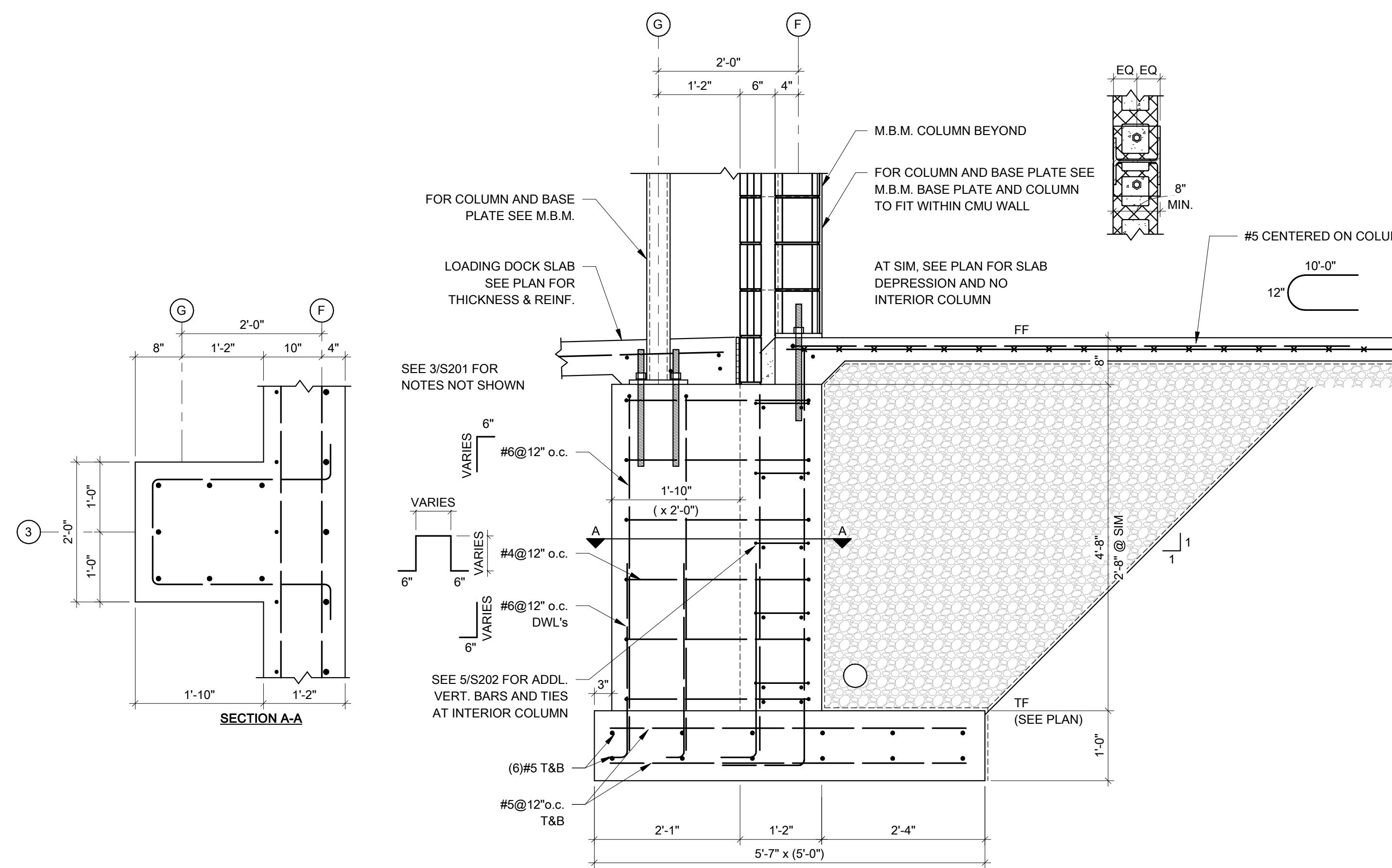
2 SECTION  
3/4" = 1'-0"



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



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



5 SECTION  
3/4" = 1'-0"

12-27-2020

ARCHITECT OF RECORD  
ANDREW F. HICKS

**CAFETERIA AND MULTI-PURPOSE ROOM**  
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Structural Engineers

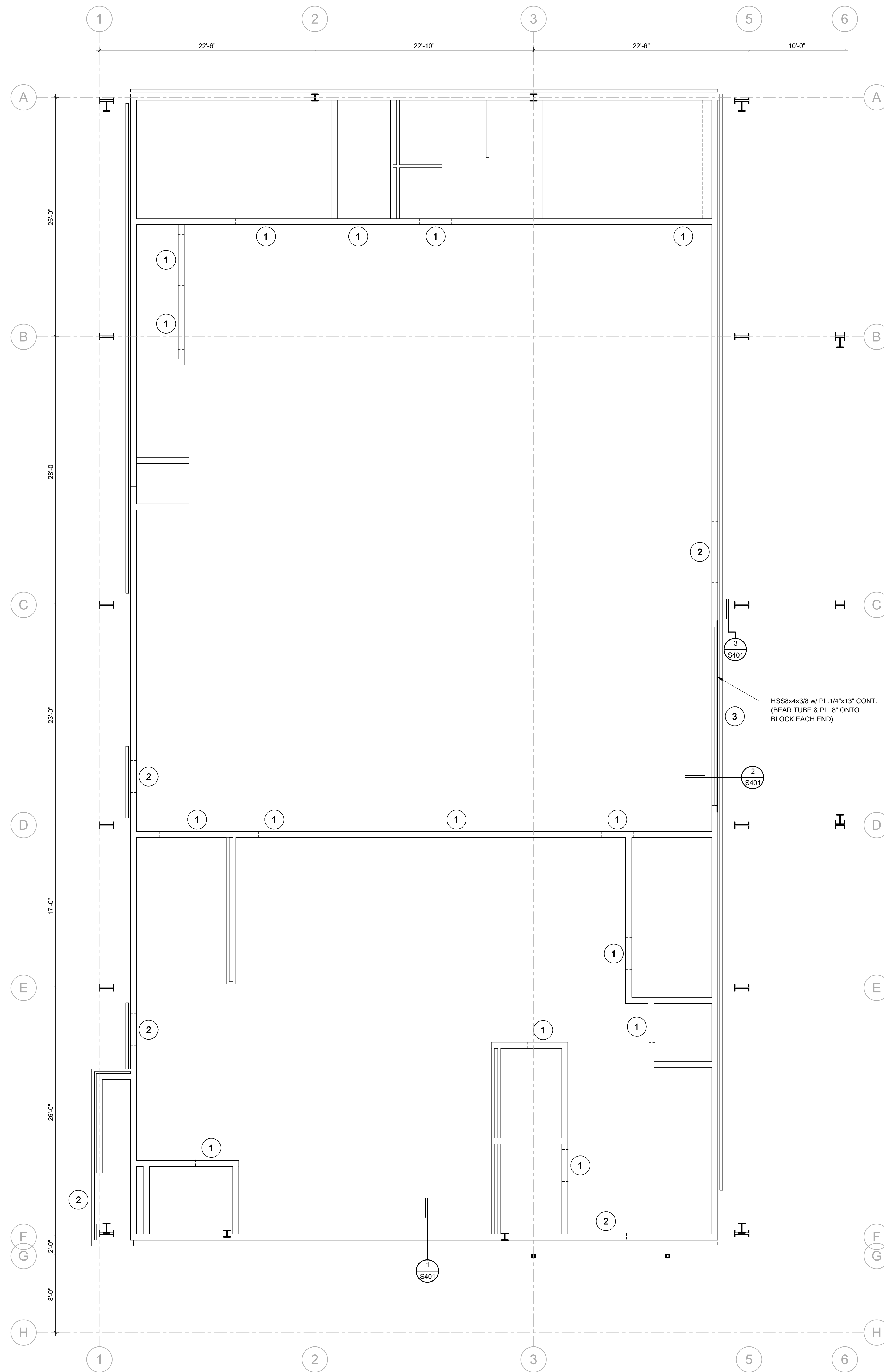
401 West Capitol Avenue, Suite 305  
Little Rock, Arkansas 72201-3401  
Phone No: (501) 376-3752  
Fax No: (501) 376-7314  
JOB# 20-083

REGISTERED PROFESSIONAL ENGINEER  
No. 5920  
FRANK M. ALLISON

S203

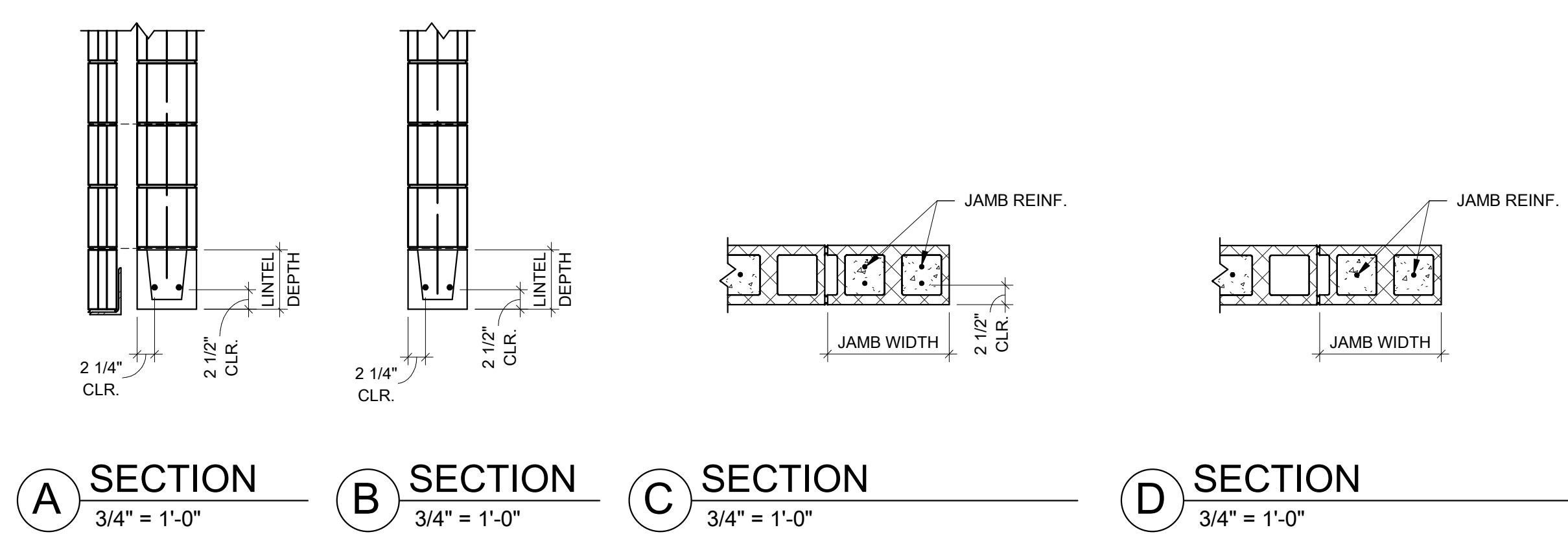






**1 FRAMING PLAN**  
3/16" = 1'-0"

CMU LINTEL AND JAMB SCHEDULE			
MARK	WALL TYPE	JAMB REINF.	LINTEL REINF.
1	8" CMU	8" JAMB w/ (1) #5 VERT.	8" LINTEL w/ (2) #2 BOT.
2	8" CMU w/ 4" CMU VENEER	16" JAMB w/ (1) #5 VERT.	8" LINTEL w/ (2) #6 BOT. w/ L6x4xS16
3	8" CMU w/ 4" CMU VENEER	16" JAMB w/ (2) #6 VERT.	SEE S401



**A SECTION** 3/4" = 1'-0"  
**B SECTION** 3/4" = 1'-0"  
**C SECTION** 3/4" = 1'-0"  
**D SECTION** 3/4" = 1'-0"

12-27-2020

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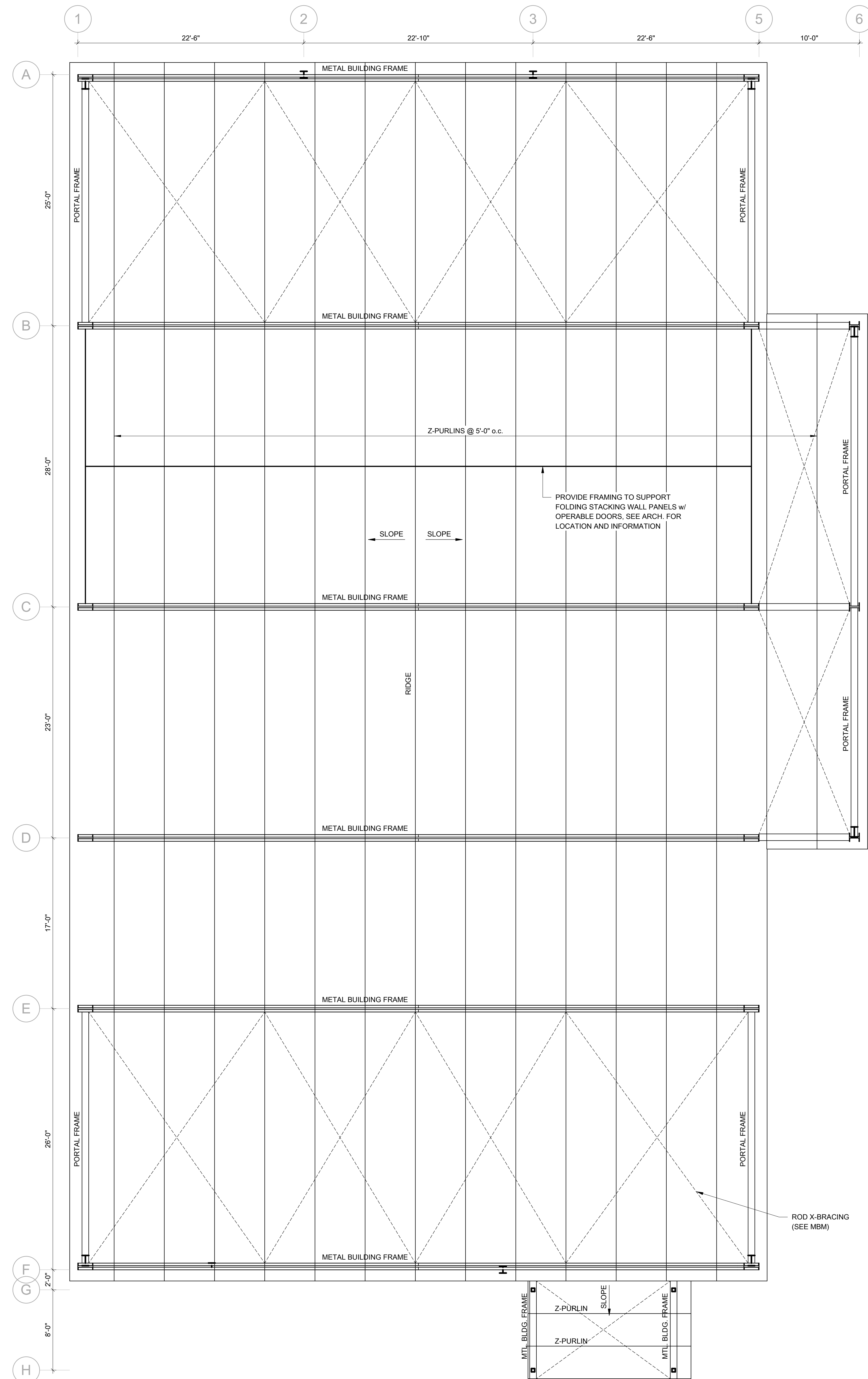
FRAMING PLAN

**S301**

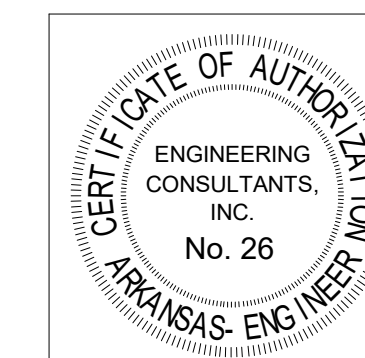
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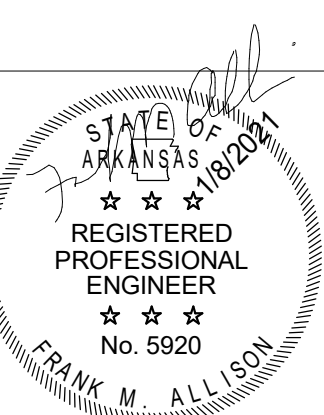
REGISTERED PROFESSIONAL ENGINEER  
No. 5920  
FRANK M. ALLISON



1 ROOF FRAMING PLAN  
3/16" = 1'-0"



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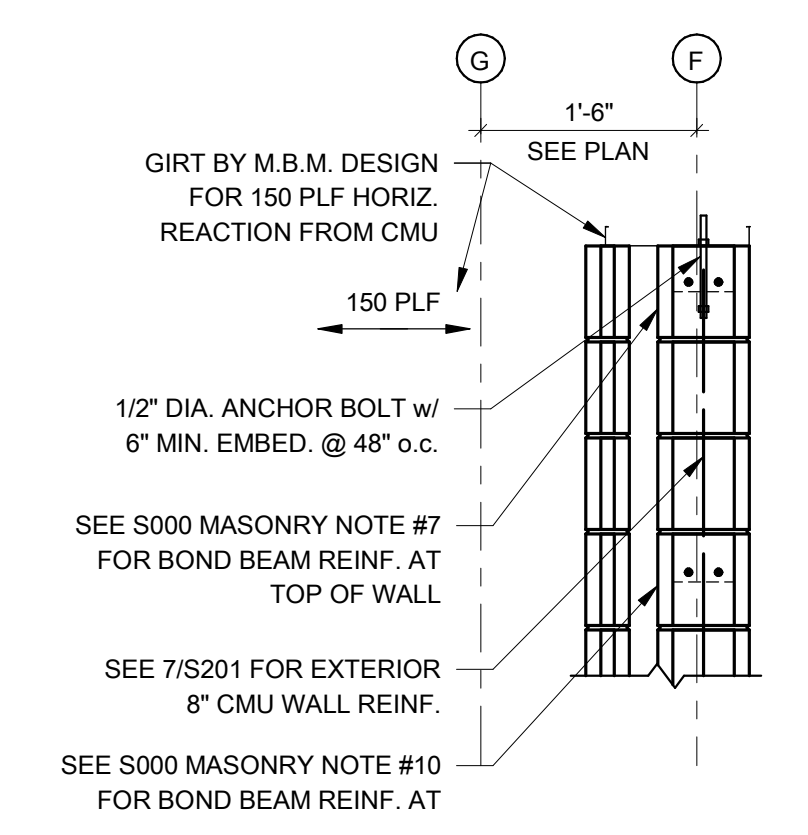
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ROOF PLAN

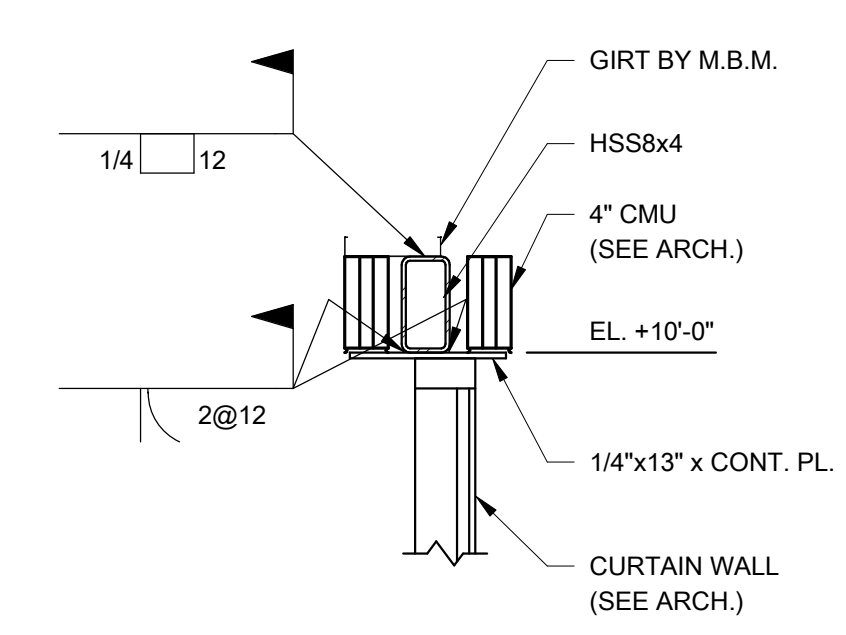
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**S302**

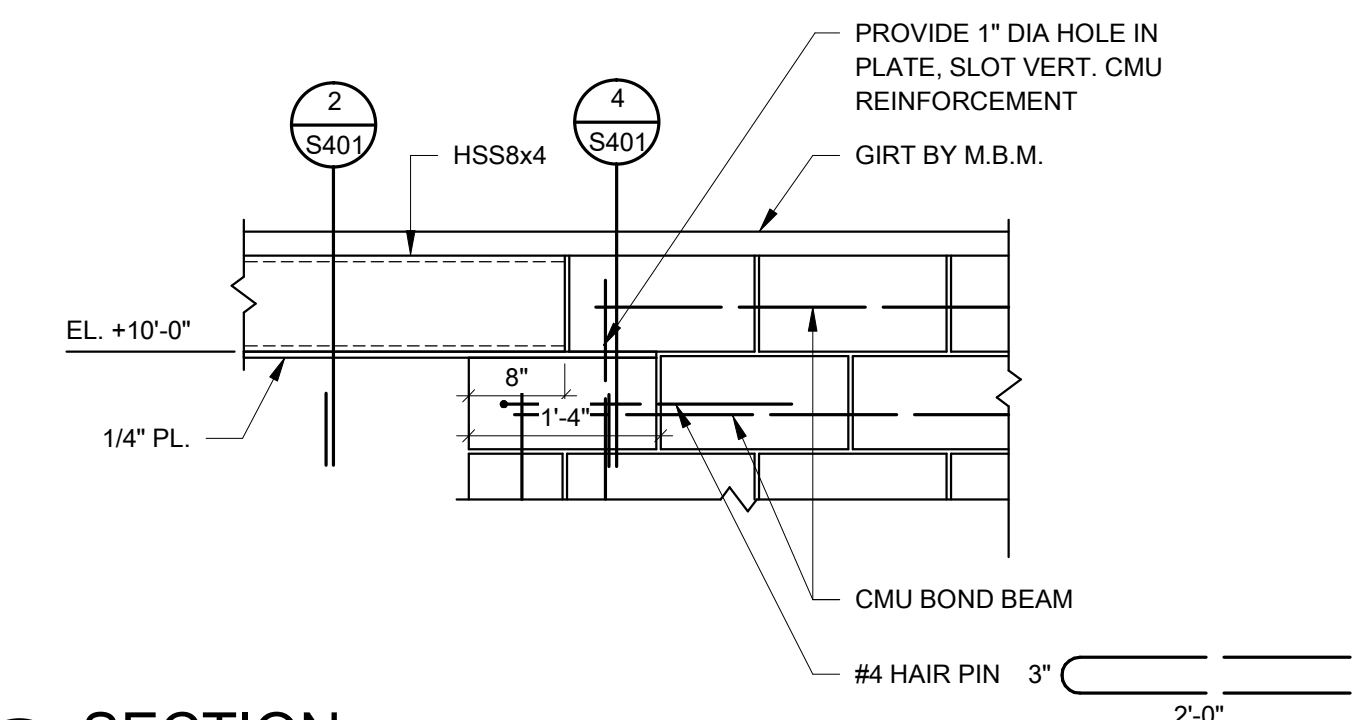




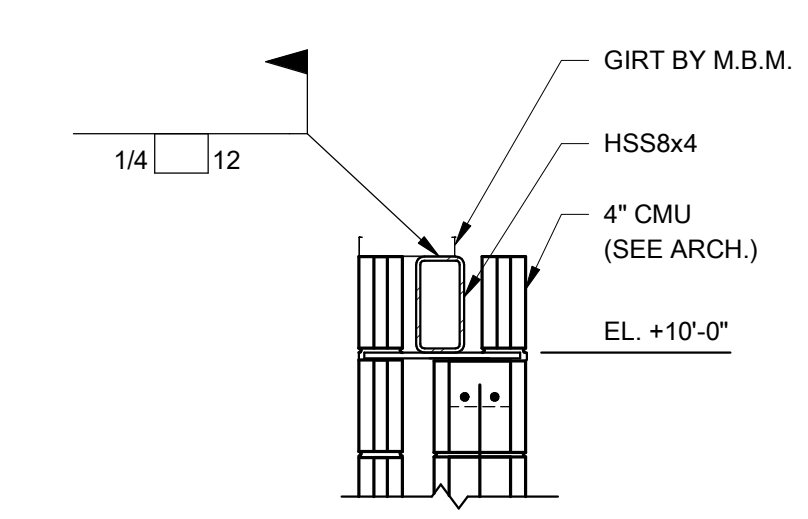
**1 SECTION**  
 3/4" = 1'-0"



**2 SECTION**  
 3/4" = 1'-0"



**3 SECTION**  
 3/4" = 1'-0"



**4 SECTION**  
 3/4" = 1'-0"

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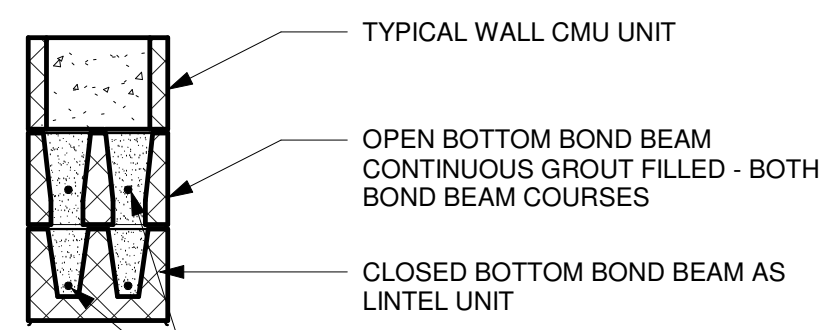
FRAMING DETAILS

**S401**

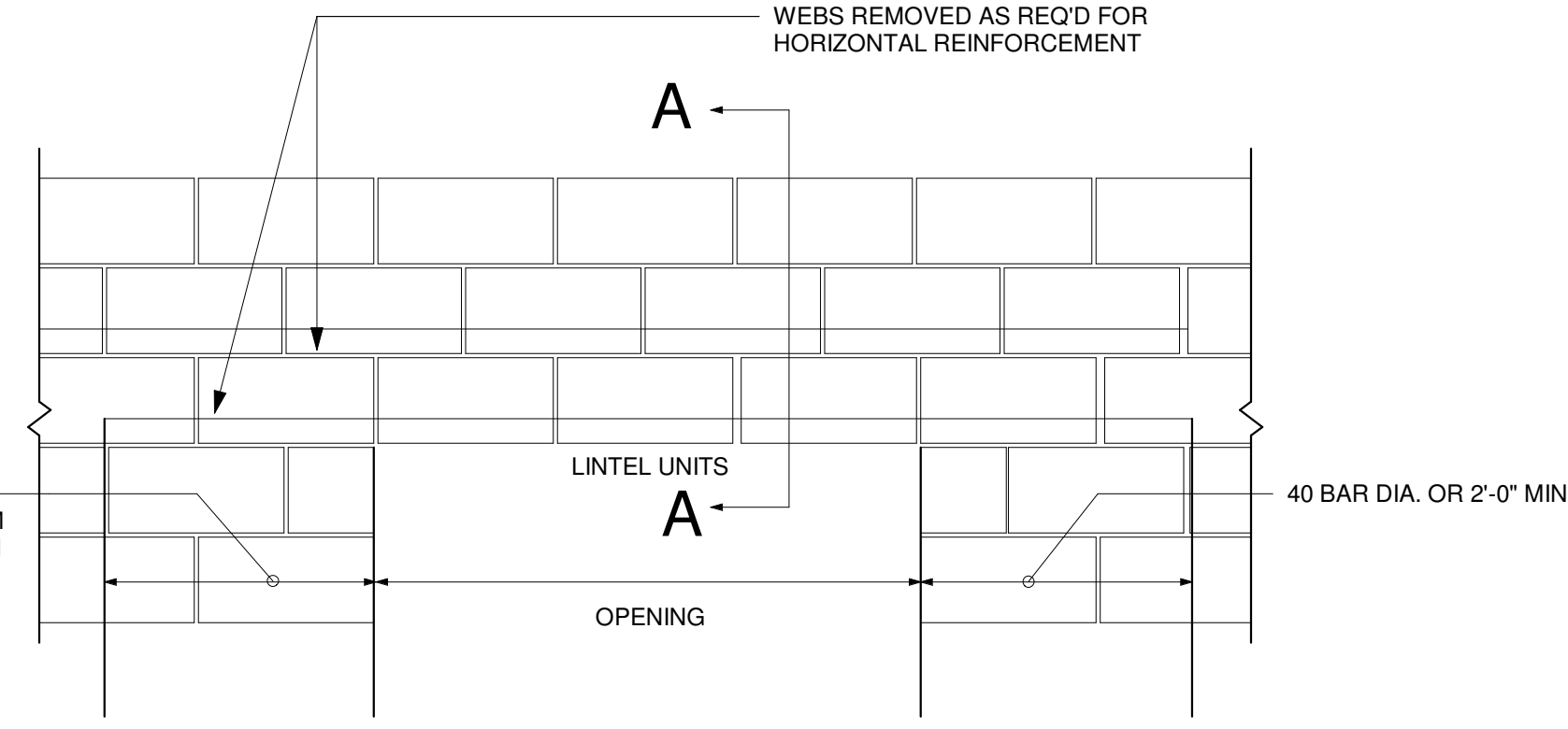
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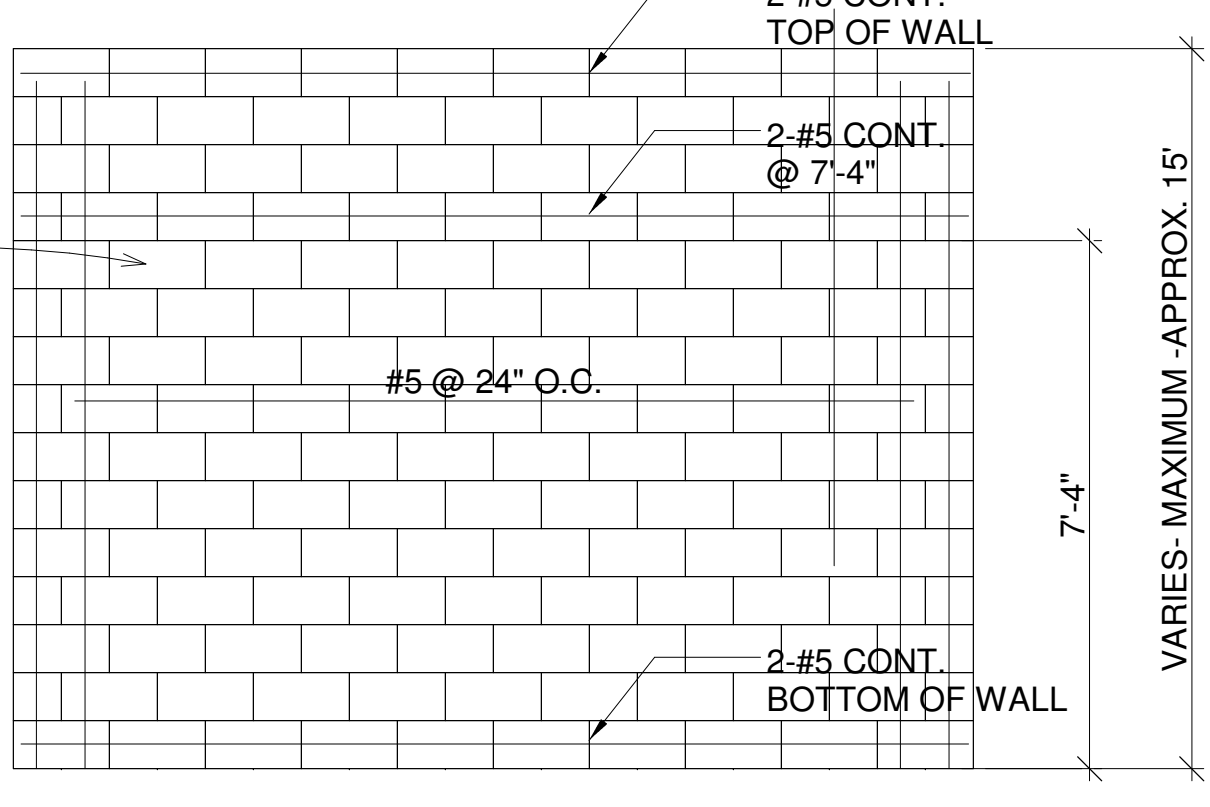


**SECTION A-A**



2 TYPICAL LINTEL OPENING  
3/4" = 1'-0"

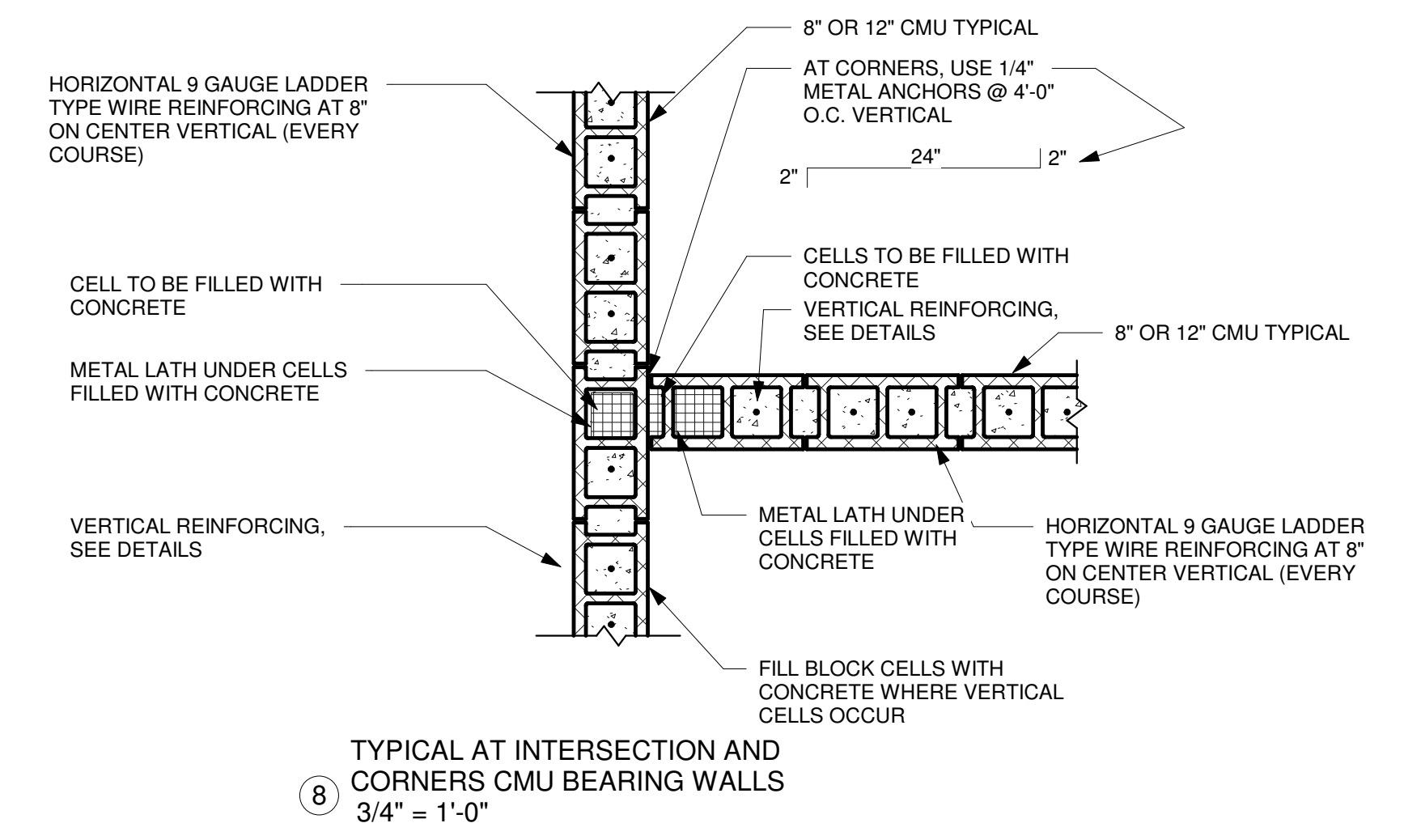
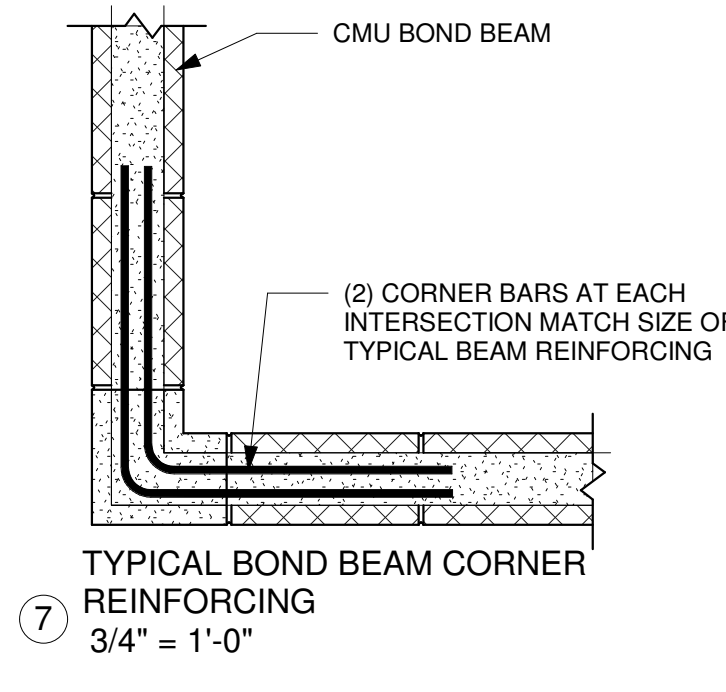
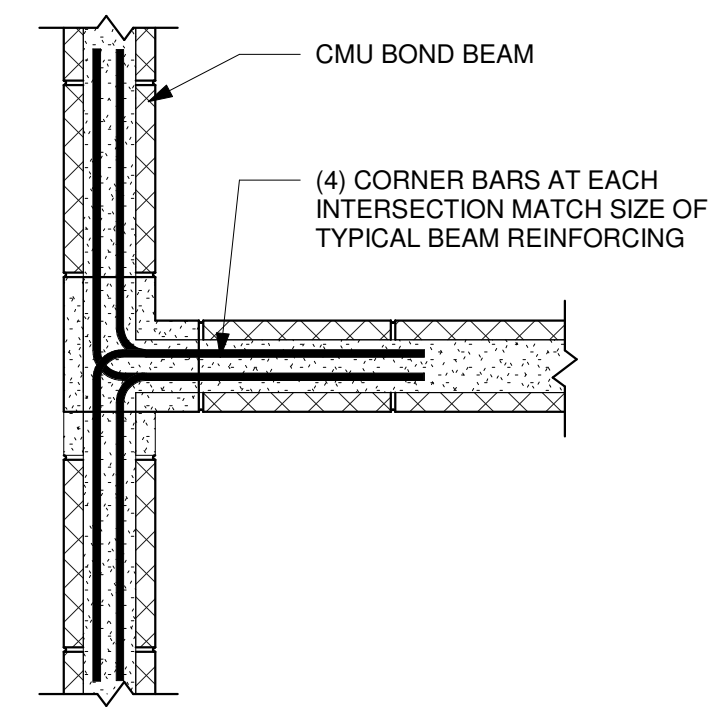
(2) #5 VERT. EACH END OF SHEAR WALL PANEL SEE S2.0 FOR SHEAR WALL PANEL LOCATIONS-TYPICAL BOTH ENDS



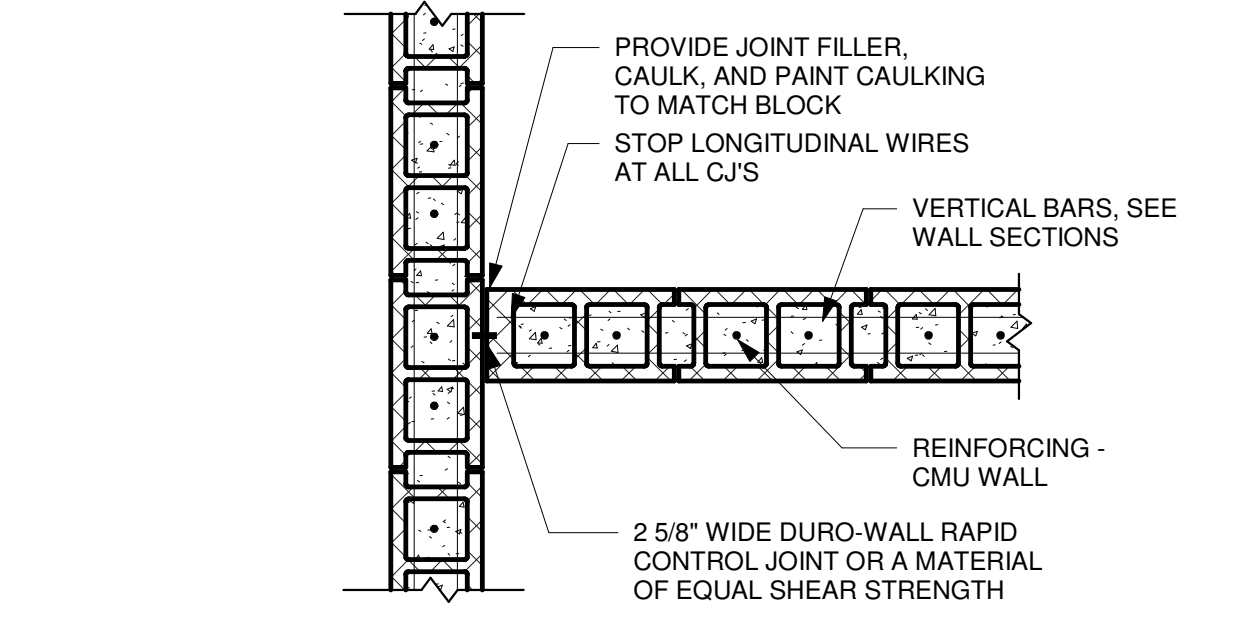
(2) #5 VERT. EACH END OF SHEAR WALL PANEL SEE S2.0 FOR SHEAR WALL PANEL LOCATIONS

**TYPICAL SHEAR WALL PANEL DETAIL**

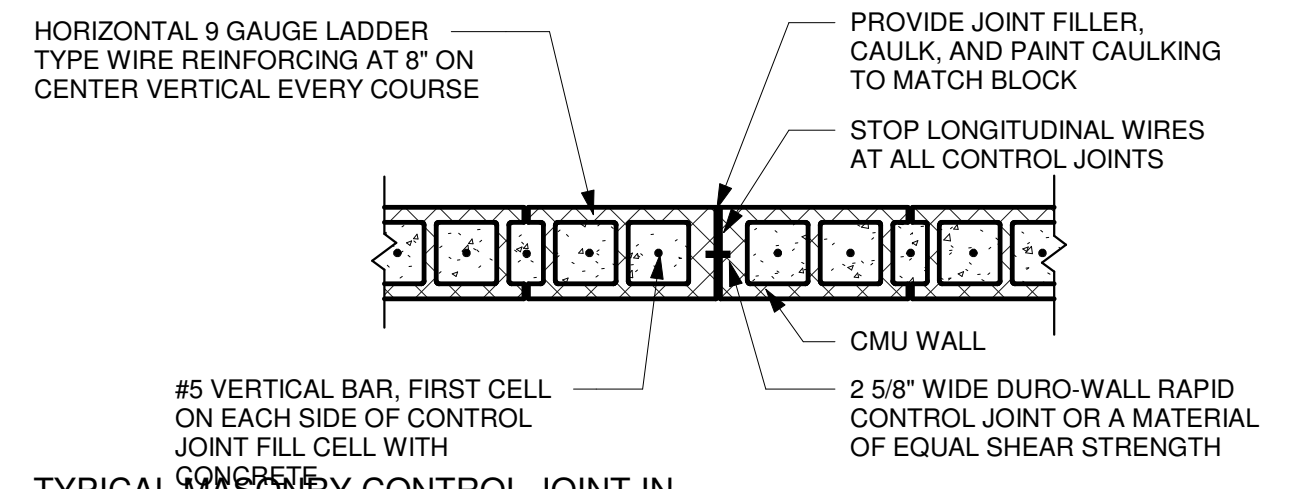
10 MASONRY TYPICAL SHEAR WALL  
3/8" = 1'-0"



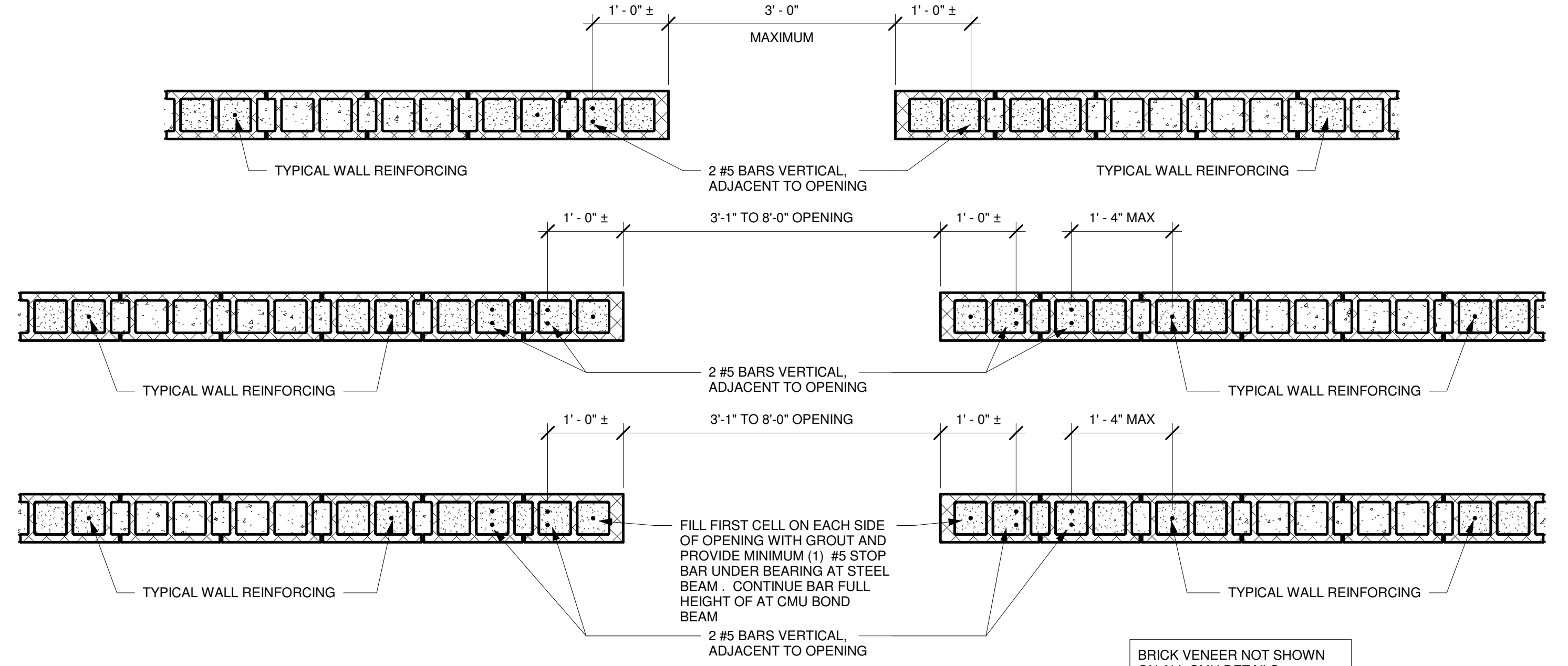
8 TYPICAL AT INTERSECTION AND CORNERS CMU BEARING WALLS  
3/4" = 1'-0"



9 TYPICAL VERTICAL MASONRY CONTROL JOINT AT WALL INTERSECTION  
3/4" = 1'-0"



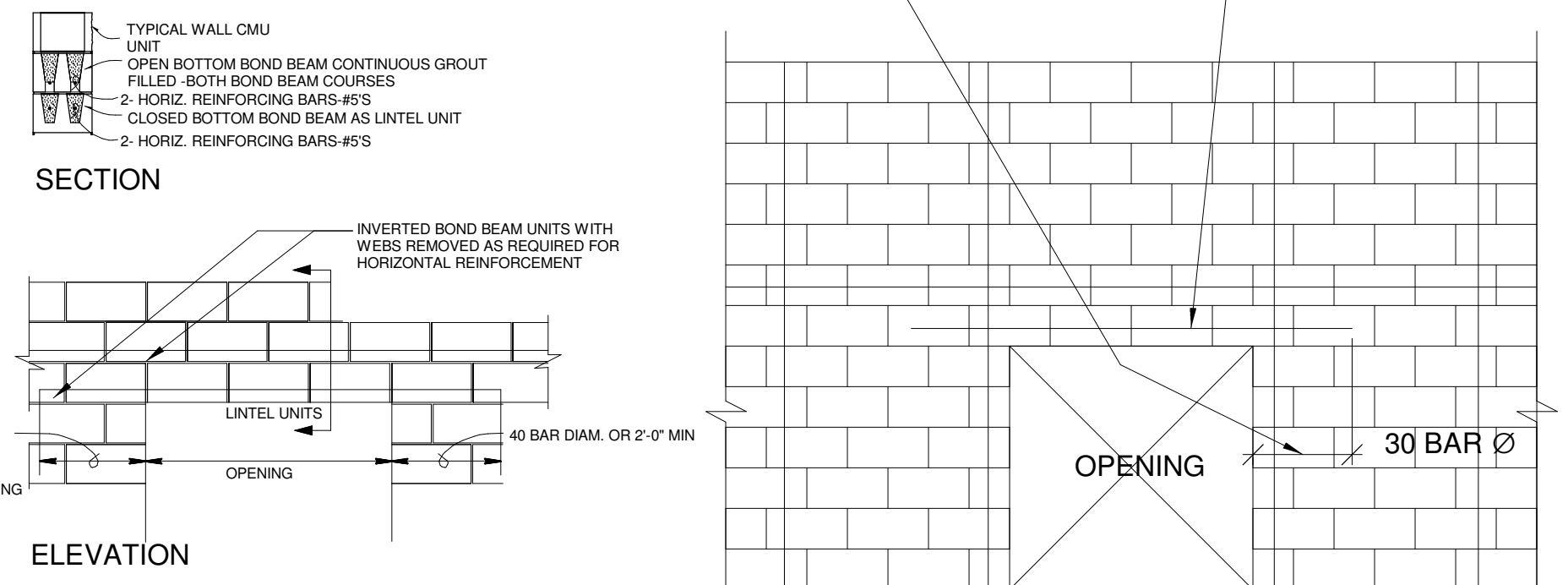
4 TYPICAL MASONRY CONTROL JOINT IN BLOCK WALL  
3/4" = 1'-0"



1 TYP. MASONRY REINFORCING AT OPENINGS  
3/4" = 1'-0"

STANDARD HOOK DOWN AT LOCATION WHERE WALL ENDS LESS THAN 30 BAR DIA. FROM OPENING.

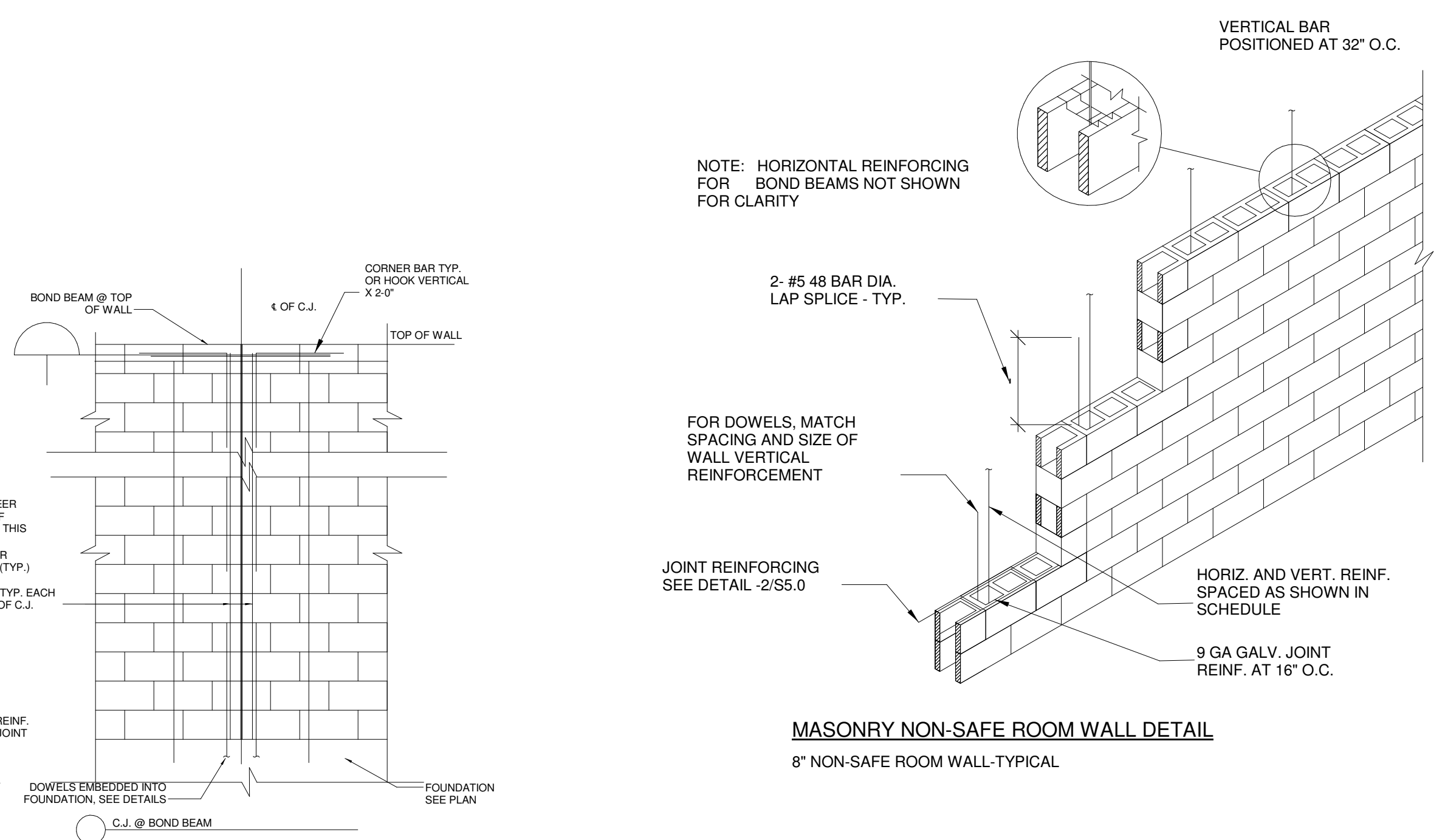
ADDITIONAL HORIZONTAL REINF. AND GROUT, SEE S5/S6.1 OMIT ADD'L BOND BEAM WHERE BOND BEAM OCCURS DIRECTLY ABOVE OPENING



**ELEVATION**

ADDITIONAL VERTICAL REINF. REQUIRED ADJACENT TO OPENING AS PER DETAIL - 4B THIS SHEET, TYPICAL

5 MASONRY TYPICAL REINFORCING AT OPENINGS  
3/8" = 1'-0"



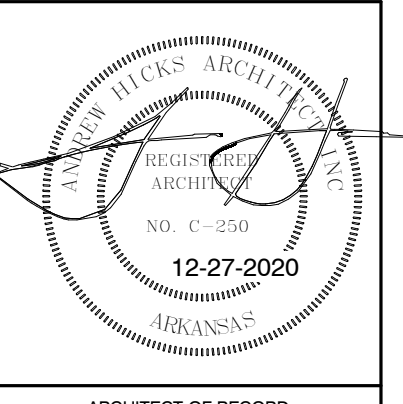
3 MASONRY TYPICAL CONTROL JOINT  
3/8" = 1'-0"

**MASONRY WALL DETAILS**

11 MASONRY TYPICAL WALL REINFORCING AT WALLS AND SAFE ROOM WALLS  
3/8" = 1'-0"

DESCRIPTION	REINFORCEMENT			GROUT	REMARKS
	VERTICAL	HORIZONTAL	JOINT		
8" EXTERIOR AND INTERIOR CMU WALLS BELOW & ABOVE SLAB	1 - #5 AT 32" O.C.	BOND BEAMS AT EVERY 4'-0" O.C. VERTICAL ABOVE FIN FLOOR TO TOP OF WALL. 2-#5'S EACH BOND BEAM CONTINUOUS. GROUT SOLID.	9 GAUGE LADDER TYPE AT 16" O.C. VERTICAL	GROUT CELLS WITH RE-BAR AND BOND BEAMS SOLID	
4" CMU WALLS BELOW & ABOVE SLAB	1 - #3 EACH CELL AT 32" O.C.	BOND BEAMS AT EVERY 4'-0" O.C. VERTICAL ABOVE FIN FLOOR TO TOP OF WALL. 1-#3 EACH BOND BEAM CONTINUOUS. GROUT SOLID.	9 GAUGE LADDER TYPE AT 16" O.C. VERTICAL	GROUT CELLS WITH RE-BAR AND BOND BEAMS SOLID	

- ALL BOND BEAMS IN STANDARD CMU WALLS (NON SAFE ROOM) SHALL BE LOW WEB OPEN BOTTOM BOND BEAMS W/ METAL LATH OVER UNGROUTED CELLS.
  - ALL BOND BEAMS IN SAFE ROOM WALLS SHALL BE LOW WEB OPEN BOTTOM BOND BEAMS. ALL CELLS SHALL BE GROUTED
  - ALL DOWELS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING.
  - ALSO SEE GENERAL NOTES SHEET S-1.0 FOR ADDITIONAL INFORMATION.
  - REINFORCE FIRST TWO CELLS AT EACH END OF SHEAR WALLS W/ 2-#5 BARS.
  - NON SAFE ROOM CMU WALLS HAVE INTERMEDIATE CONT. BOND BEAM W/ 2-#5 @ 7'-4" AFF.
  - SAFE ROOM CMU WALLS HAVE TWO INTERMEDIATE CONT. BOND BEAMS W/ 2-#5 @ 4'-0" AFF AND 7'-4" AFF
- MASONRY-CMU WALL REINFORCEMENT AND GROUT SCHEDULE - WITH SAFE ROOM  
12" = 1'-0"



ARCHITECT OF RECORD  
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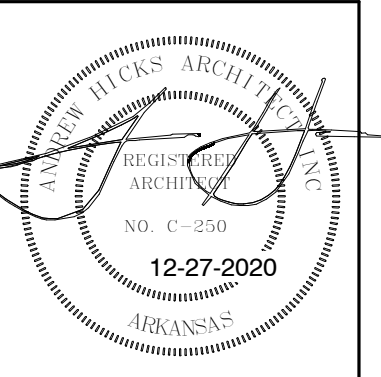
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ARCH MASONRY DETAILS

**S501**



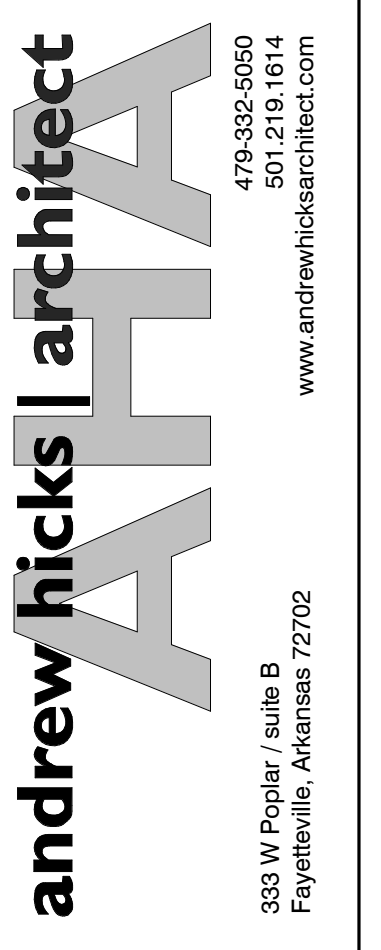


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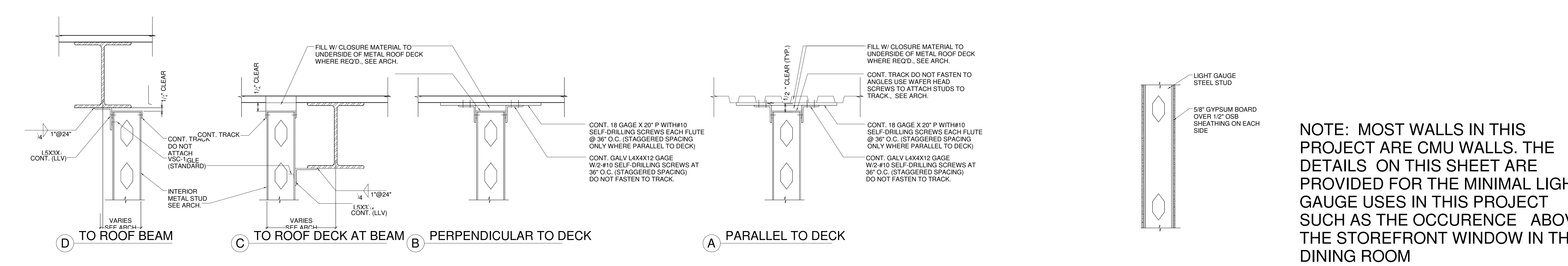
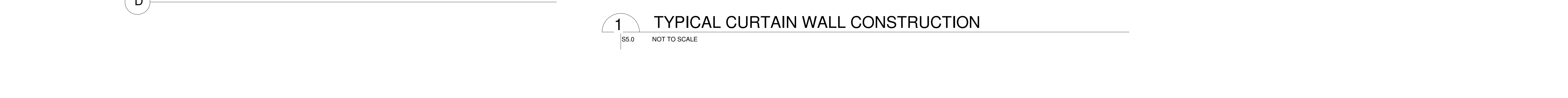
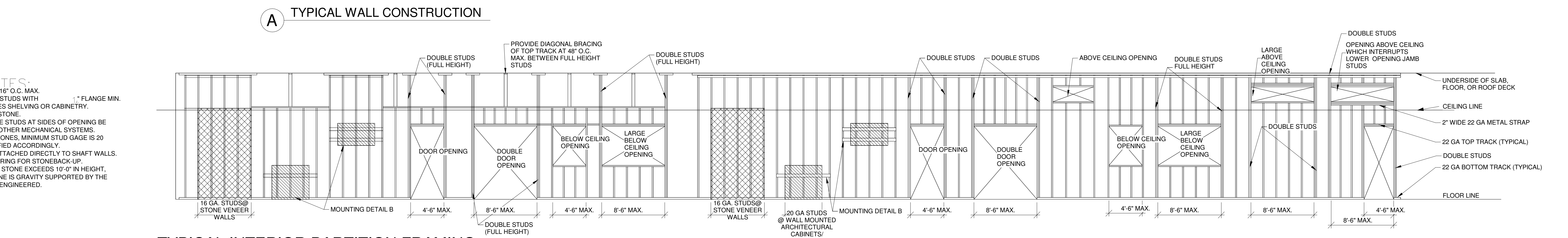
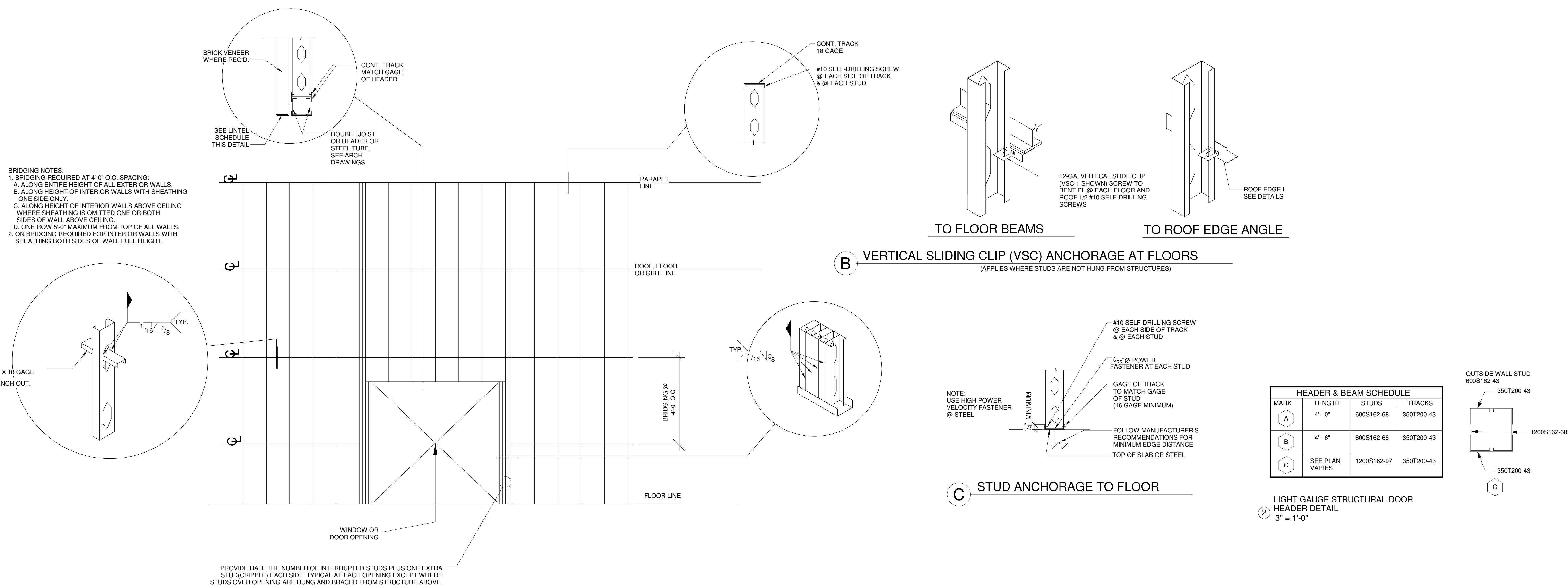
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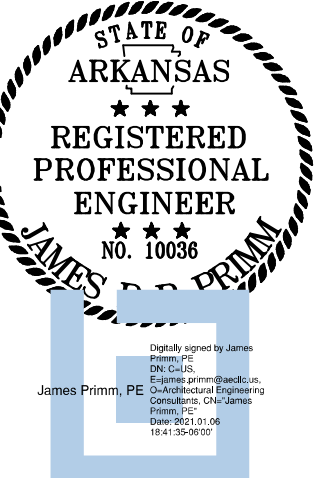
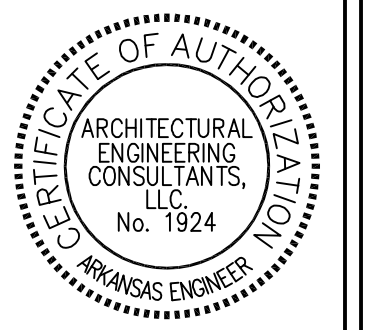
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LIGHT GAUGE FRAMING DETAILS

**S502**



**NOTE: MOST WALLS IN THIS PROJECT ARE CMU WALLS. THE DETAILS ON THIS SHEET ARE PROVIDED FOR THE MINIMAL LIGHT GAUGE USES IN THIS PROJECT SUCH AS THE OCCURENCE ABOVE THE STOREFRONT WINDOW IN THE DINING ROOM**



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 Little Rock, Arkansas 72205, www.andrewjacksonarchitect.com

**ARCHITECTURAL ENGINEERING CONSULTANTS, LLC.**  
 3802 John F. Kennedy Blvd - North Little Rock, AR 72119  
 AEC JOB #: 0803.20.03

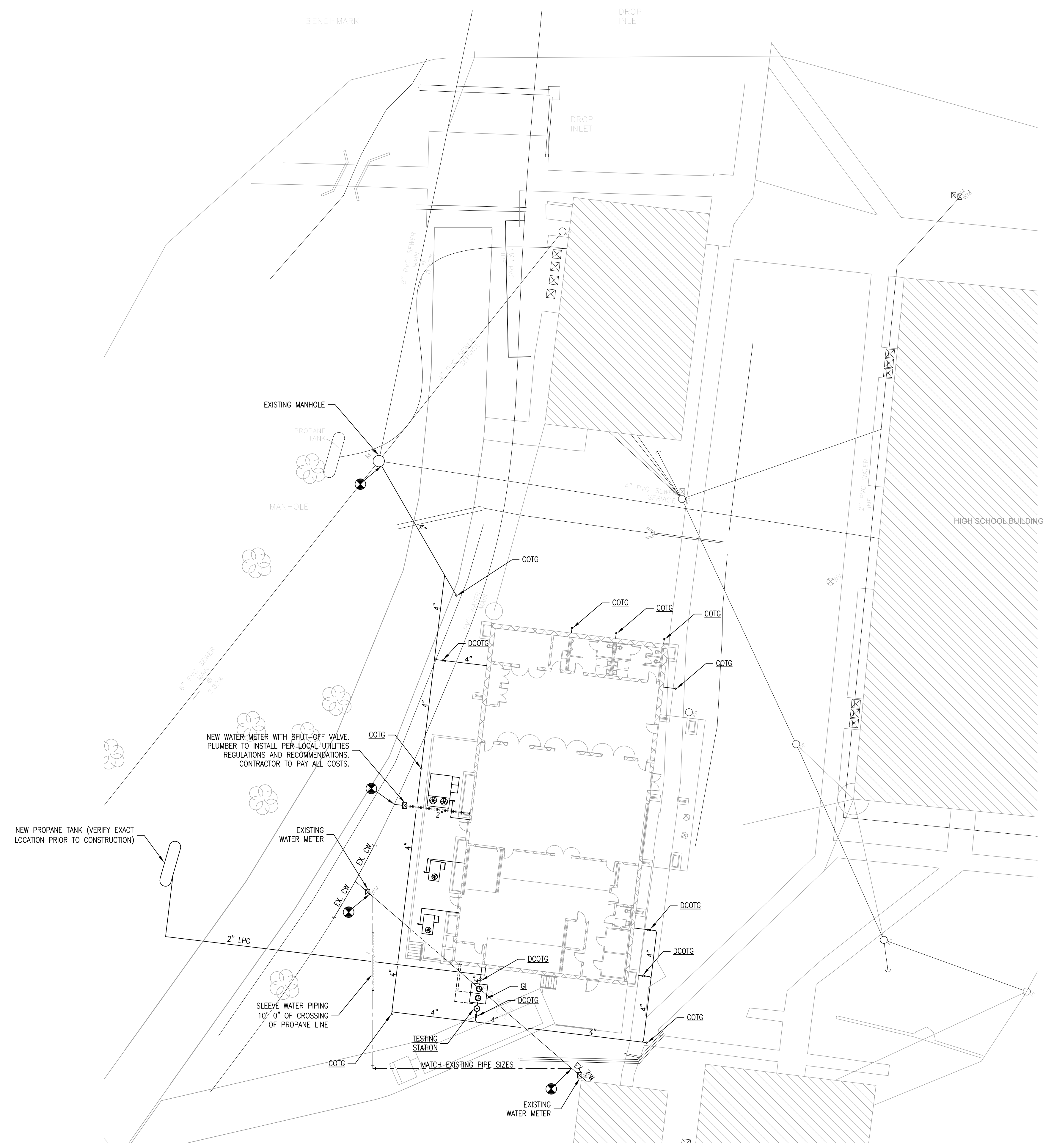


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PLUMBING SITE PLAN

P101



**1 PLUMBING SITE PLAN**  
 SCALE 1" = 20'-0"

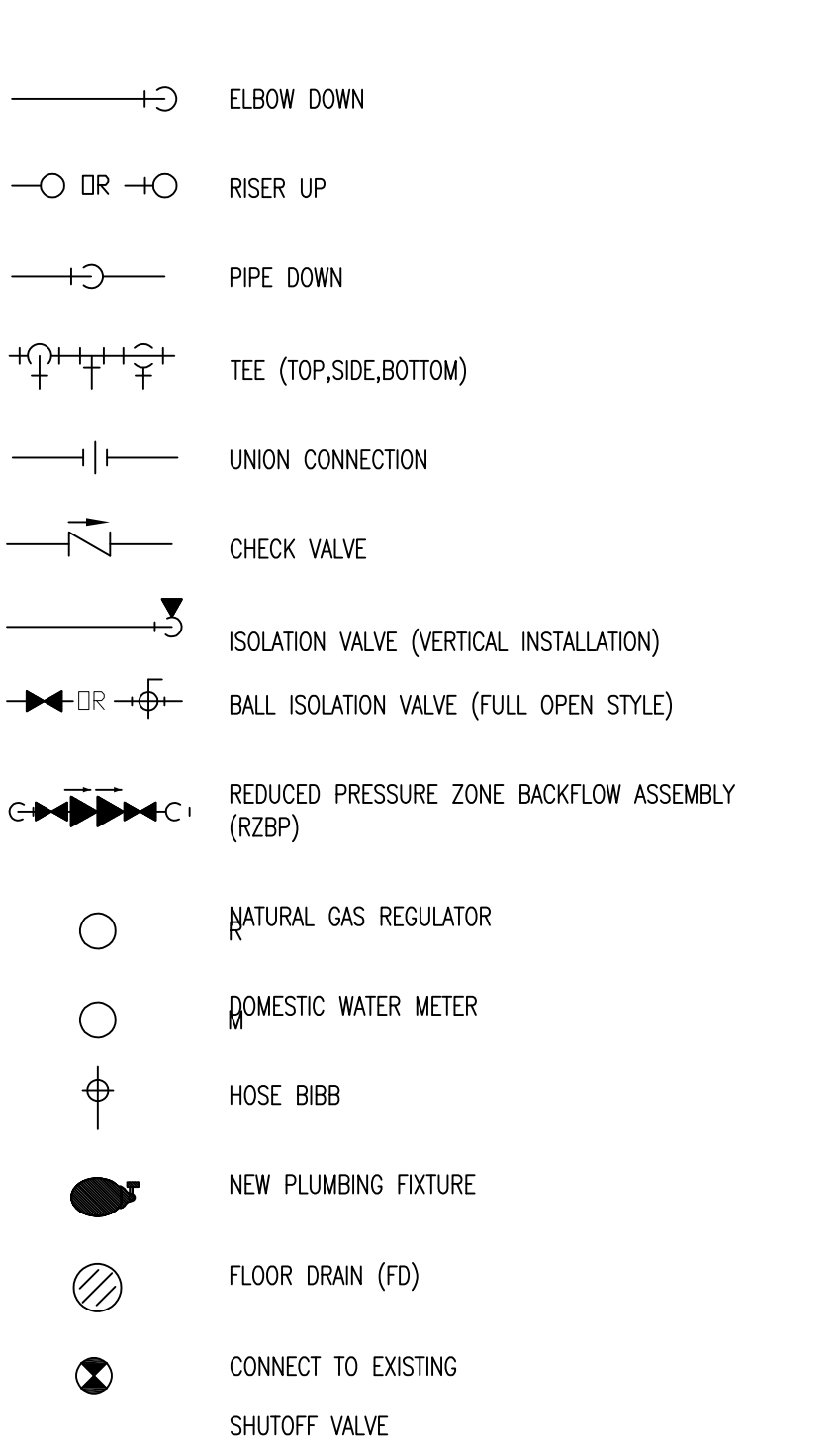




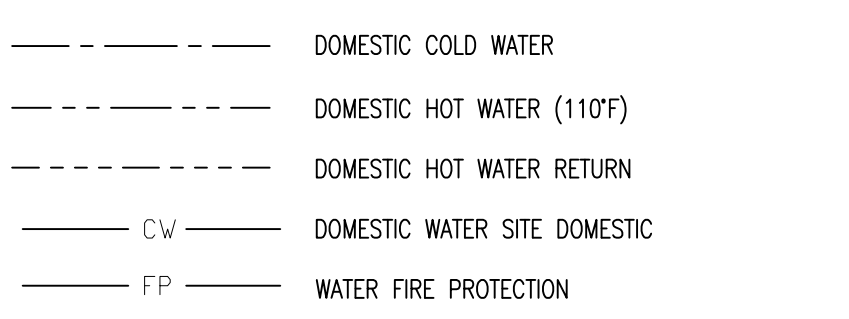

**ABBREVIATIONS** 1) ALL ABBREVIATIONS SHOWN MAY NOT BE APPLICABLE TO THIS PROJECT.  
2) REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT DESIGNATIONS.  
3) REFER TO PIPING DESIGNATIONS AND TYPES FOR PIPE ABBREVIATIONS.

<b>A</b>	ABV ABOVE FINISHED FLOOR AFF ABOVE FINISHED GRADE AMP AMPERES ANSI AMERICAN NAT'L STANDARDS INSTITUTE APD AIR PRESSURE DROP ARCH ARCHITECT ARCHITECTURAL ARI AIR CONDITIONING & REFRIG INSTITUTE ASTM AMERICAN SOCIETY OF TESTING & MATLS AUX AUXILIARY AWG AMERICAN WIRE GAUGE AWW AMERICAN WATER WORKS ASSOC.	<b>L</b>	LENGTH LAT LEAVING AIR TEMPERATURE LBS # POUNDS LDB LEAVING DRY BULB LFE LEAVING FEET LP LOW PRESSURE LRA LOCKED ROTOR AMPS LTG LIGHTING LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE
<b>B</b>	BLDG BUILDING BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BOS BOTTOM OF STRUCTURE BTU BRITISH THERMAL UNIT	<b>M</b>	MAX MAXIMUM MBTU/MH 1000 BTU PER HOUR MCA MINIMUM CIRCUIT AMFACITY MECH MECHANICAL MFR MANUFACTURER MOCP MAXIMUM OVER CURRENT PROTECTION MH MANHOLE, METAL HALIDE MIN MINIMUM MTD MOUNTED
<b>C</b>	CONN CONNECT, CONNECTION CFH CUBIC FEET PER HOUR CFM CUBIC FEET PER MINUTE CFS CUBIC FEET PER SECOND CIRC CIRCULATING CKT CIRCUIT CL CENTERLINE CLC CEILING CMU CONCRETE MASONRY UNIT CO CLEANOUT COTG CLEANOUT TO GRADE COL COLUMN CPVC CHLORINATED POLYVINYL CHLORIDE CU COPPER CW COLD WATER	<b>N</b>	N/A NOT APPLICABLE NC NOISE CRITERIA, NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MFR'S ASSOC. NFPA NATIONAL FIRE PROTECTION ASSOC. NTS NOT TO SCALE
<b>D</b>	DB DRY BULB dB DECIBEL DEG DEGREES DESIG DESIGNATION DIA (OR Ø) DIAMETER DIM DIMENSION DISC DISCONNECT DN DOWN DX DIRECT EXPANSION	<b>O</b>	OA OUTSIDE AIR OBD OPPOSED BLADE DAMPER OD OUTSIDE DIAMETER OH OVERHEAD
<b>E</b>	EA EACH EAT ENTERING AIR TEMPERATURE EDB ENTERING DRY BULB EA EXHAUST AIR ELEV ELEVATION ELEZ ELECTRICAL EQP.EQUIP EQUIPMENT ESP EXTERNAL STATIC PRESSURE EWC ELECTRICAL WATER COOLER EXH EXHAUST	<b>P</b>	PD PRESSURE DROP PH PHASE PLBG PLUMBING PNL PANEL PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE
<b>F</b>	FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FCO FLOOR CLEANOUT FLA FULL LOAD AMPS FLX FLEXIBLE FPM FEET PER MINUTE FT FOOT, FEET F DEGREES FAHRENHEIT	<b>Q</b>	QTY QUANTITY
<b>G</b>	GRND GROUND GA GAUGE GAL GALLON GALV GALVANIZED GC GENERAL CONTRACTOR GFI, GFCI GROUND FAULT INTERRUPTER GPH GALLONS PER HOUR GPM GALLONS PER MINUTE	<b>R</b>	RA RETURN AIR RCP REFLECTED CEILING PLAN, ROOF DRAIN REF REFERENCE, REFER REIRC RECIRCULATE REINF REINFORCING, REINFORCED REQD REQUIRED REV REVISION, REVISE RH RELATIVE HUMIDITY RLA RUNNING LOAD AMPS RPM REVOLUTIONS PER MINUTE
<b>H</b>	H HEIGHT HD HEAD, HUB DRAIN HORIZ HORIZONTAL HP HORSEPOWER HTG HEATING HTR HEATER HWAC HEATING, VENTILATING & A/C HW HOT WATER HYD HYDRANT HZ HERTZ	<b>S</b>	SA SUPPLY AIR SD SMOKE, DAMPER, STORM DRAIN SECT SECTION SF SQUARE FEET, SQUARE FOOT SM SHEET METAL SMACNA SHEET METAL & A/C CONT. NAT'L ASSOC. SP STATIC PRESSURE SPEC SPECIFICATION SQ SQUARE SS STAINLESS STEEL, SANITARY SEWER STD STANDARD
<b>I</b>	ID INSIDE DIAMETER IE INVERT ELEVATION IN INCH, INCHES IN WC INCHES OF WATER COLUMN	<b>T</b>	THRU THROUGH TP TOTAL PRESSURE TSP TOTAL STATIC PRESSURE TSTAT THERMOSTAT TYP TYPICAL
<b>J</b>	J-BOX JUNCTION BOX	<b>U</b>	U/G UNDERGROUND U/S UNDER SLAB UL UNDERWRITERS LABORATORIES, INC.
<b>K</b>	KW KILOWATTS KWH KILOWATT-HOUR	<b>V</b>	V VOLT VA VOLT-AMPERE VAC VACUUM VERT VERTICAL VTR VENT THROUGH ROOF
		<b>W</b>	W WATT, WIDTH W/ WITH W/O WITHOUT WB WET BULB WC WATER COLUMN WPD WATER PRESSURE DROP WT WATERTIGHT, WEIGHT
		<b>X</b>	XFRMR TRANSFORMER

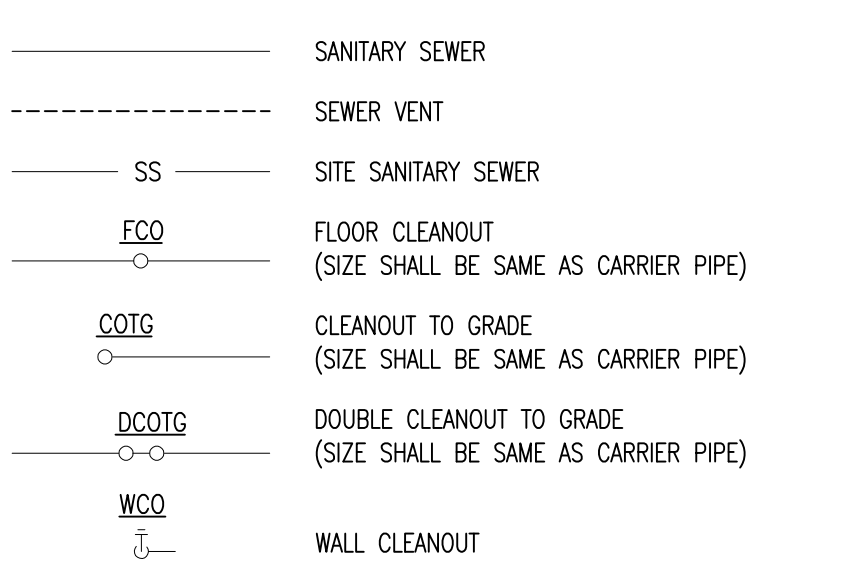
**PLUMBING SYMBOLS**



**DOMESTIC WATER & FIRE PROTECTION**

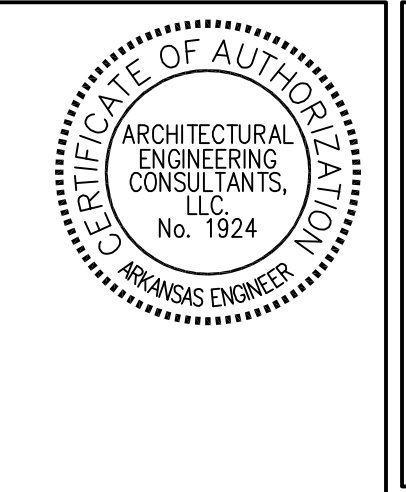


**DOMESTIC SEWER**

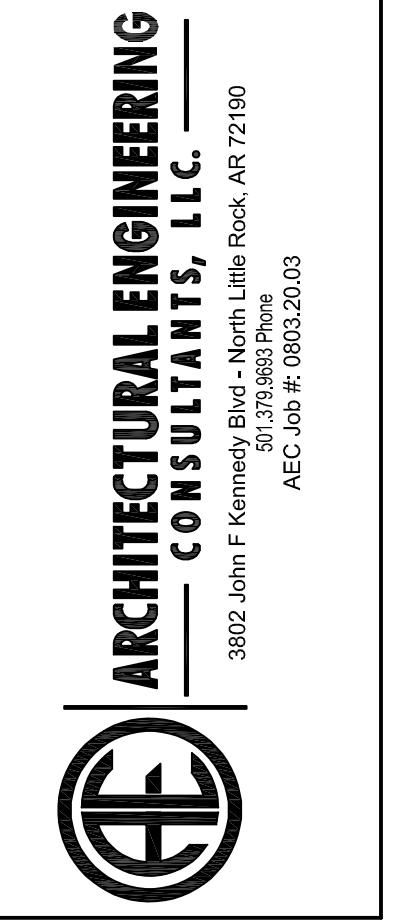
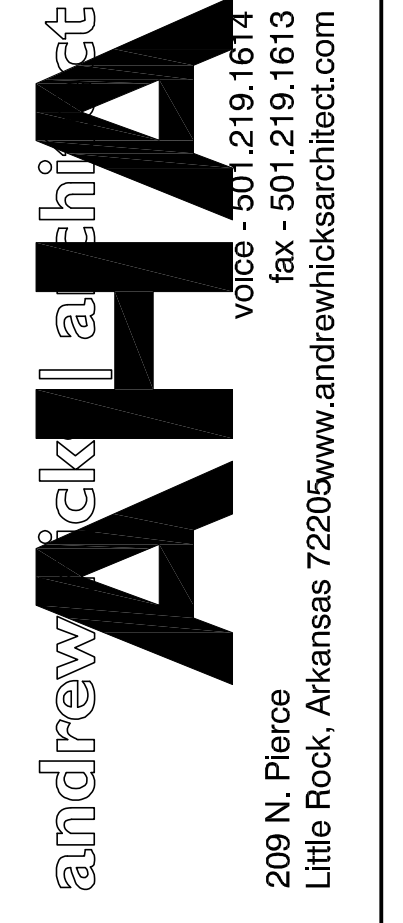


**PLUMBING GENERAL NOTES**

- ALL PLUMBING AND NATURAL GAS WORK SHALL BE INSTALLED AND COMPLY WITH THE REQUIREMENTS OF THE "2006 ARKANSAS PLUMBING CODE", "2006 ARKANSAS FUEL GAS CODE", ALL LOCAL AMENDMENTS AND ORDINANCES GOVERNED BY AUTHORITY HAVING JURISDICTION (H&J) AND DIVISION 15 SPECIFICATION.
- 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 CONTACTS. 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.
- 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.
- CONTRACTOR SHALL PAY ALL UTILITY FEES & CHARGES AS PART OF BASE BID IN THE CONTRACT.
- THE CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING CONDITIONS, INCLUDING SITE UTILITY CONDITION AND ROUTING PRIOR TO BIDDING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THAT OF OTHER TRADES; I.e., ARCHITECTURAL, HVAC, ELECTRICAL, STRUCTURAL, AND CIVIL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE UTILITY LOCATIONS, SIZES AND INVERT ELEVATIONS PRIOR TO CONSTRUCTION; I.e., SANITARY SEWER, STORM DRAIN, DOMESTIC WATER AND NATURAL GAS. ALL SERVICES SHALL TERMINATE 5 FEET OUTSIDE THE BUILDING, EXCEPT WHERE SHOWN OTHERWISE. SEE SITE CIVIL DRAWINGS FOR CONTINUATION OF ALL SERVICE LINES.
- 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. WHERE ATTIC WALKS ARE PROVIDED, THE ISOLATION VALVES SHALL BE LOCATED NOT MORE THAN 3 FEET FROM WALKS.
- SLOPE 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. ALL SHUTOFF VALVES SHALL UTILIZE METAL VALVE STEMS, PLASTIC VALVE STEMS NOT ALLOWED.
- SLOPE 2 1/2" AND SMALLER SANITARY SEWER LINES AT MIN. (2%) 1/2" FALL PER FT. AND 3" AND LARGER SANITARY SEWER LINES AT MIN. (1%) 1/2" 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.
- PROVIDE ALL FITTINGS, TRANSITIONS, COUPLINGS, ADAPTERS, UNIONS, AND OTHER ACCESSORIES NEEDED TO COMPLETE CONNECTIONS AND PROPER OPERATIONS OF PLUMBING FIXTURES AND PLUMBING EQUIPMENT.
- REFER TO SPECIFICATIONS FOR ACCEPTABLE MANUFACTURERS OF PLUMBING FIXTURES AND EQUIPMENT, AND PROPER APPLICATIONS OF SAME.
- PROVIDE CLEANOUTS IN ALL SEWERS, WHETHER SHOWN OR NOT, AT INTERVALS NOT TO EXCEED 100 FEET, AT EACH CHANGE OF DIRECTION GREATER THAN 45 DEGREES, AND AT THE BASE OF ON ALL VERTICAL RISER STACKS (APPROX 24" ABOVE FINISH FLOOR).
- WHERE WATER PRESSURES EXCEED 80 PSI, PROVIDE WATER PRESSURE REDUCING VALVES (PRV) WITH STRAINER IN WATER SUPPLY LINES, SETTING AT 80 PSI. SEE CODE AND MANUFACTURER INFORMATION FOR ACCEPTABLE PRESSURE REQUIREMENTS.
- 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.
- DO NOT ROUTE ANY PIPING OVER ELECTRICAL PANELS.
- MAINTAIN 10"-0" MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES, OPERABLE WINDOWS AND FLUES, PLUMBING VENTS AND GAS REGULATORS.
- 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.
- 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.
- PROVIDE WATER HAMMER ARRESTORS IN FIXTURE BRANCHES WHERE QUICK CLOSING VALVES ARE INSTALLED; I.e., FLUSH VALVES, ICE MAKERS, DISHWASHERS, ETC.
- 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.
- PROVIDE APPROVED BACKFLOW PREVENTION OR ANTI-SIPHON DEVICES AT ALL FIXTURES THAT COULD CONTAMINATE THE POTABLE WATER SYSTEM.
- INSULATE ALL WATER PIPING ABOVE FINISH FLOOR. INSULATION SHALL MEET LOCAL ENERGY CODE REQUIREMENTS IN THICKNESS AND U-VALUE.
- INSULATE ALL EXPOSED HOT WATER & DRAIN PIPING FOR ACCESSIBLE FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.



**CAFETERIA AND MULTI-PURPOSE ROOM**  
Project Number: 1920-3809-001  
FOR HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

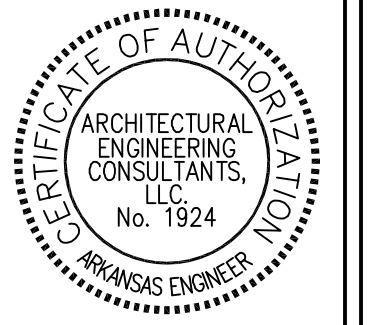


ISSUE DATE: 12-27-2020

REVISIONS	
NO.	DATE

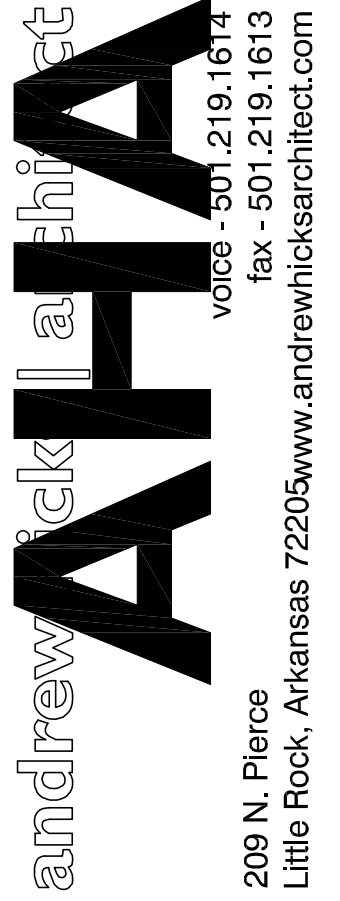
PLUMBING NOTES, LEGEND, & ABBREVIATIONS





**CAFETERIA AND MULTI-PURPOSE ROOM**

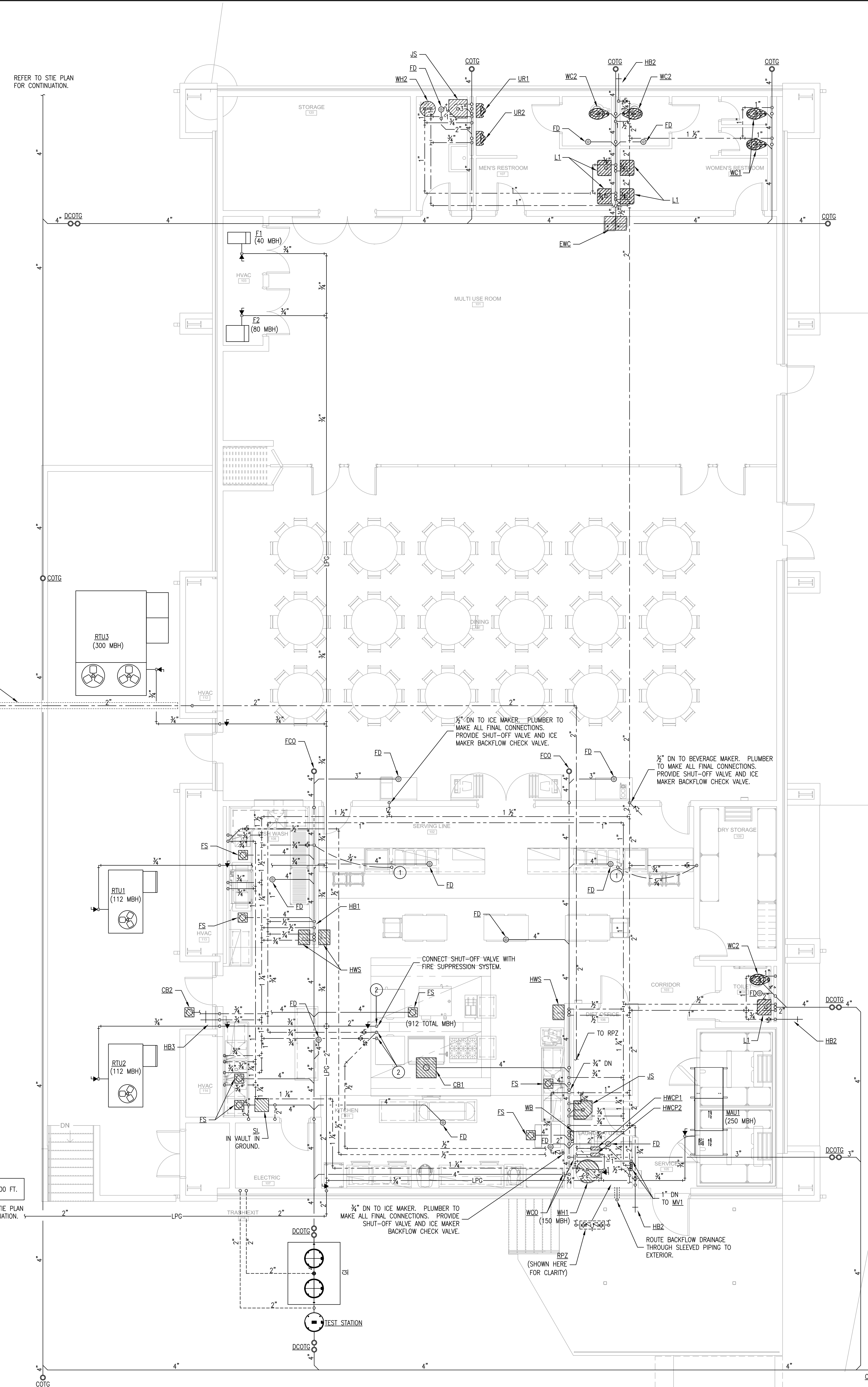
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PLUMBING PLAN

P201



- KEYED NOTES:**
- CONNECT TO KITCHEN EQUIPMENT. PROVIDE SHUT-OFF VALVES. PLUMBER TO MAKE ALL FINAL CONNECTIONS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.
  - ROUTE PIPING INTO UPS AND ROUTE TO ALL EQUIPMENT IN AREA. PLUMBER TO MAKE ALL FINAL CONNECTIONS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.

SLEEVE WATER PIPING 10'-0" EACH DIRECTION OF CROSSING OVER OF SANITARY SEWER PIPING AND UNDER SLAB.

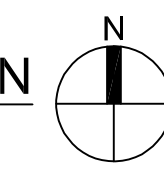
REFER TO SITE PLAN FOR CONTINUATION.

TOTAL PROPANE GAS DEMAND: 1,806 MBH @ 400 FT.

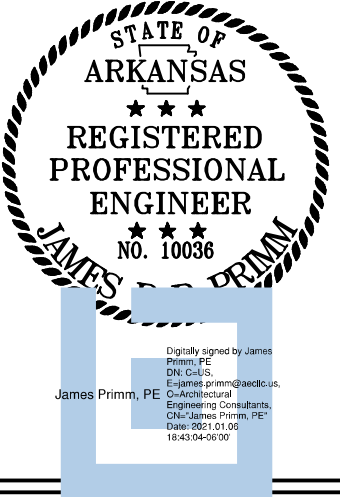
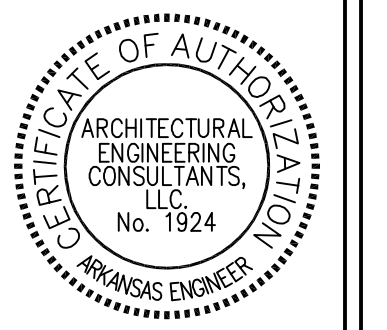
REFER TO SITE PLAN FOR CONTINUATION.

TOTAL DOMESTIC WATER DEMAND: 77 GPM

**1 PLUMBING PLAN**  
SCALE: 3/16" = 1'-0"







CAFETERIA AND MULTI-PURPOSE ROOM

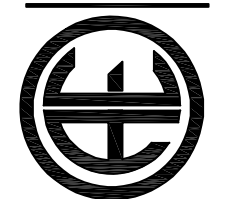
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FOR HILLCREST SCHOOL DISTRICT

HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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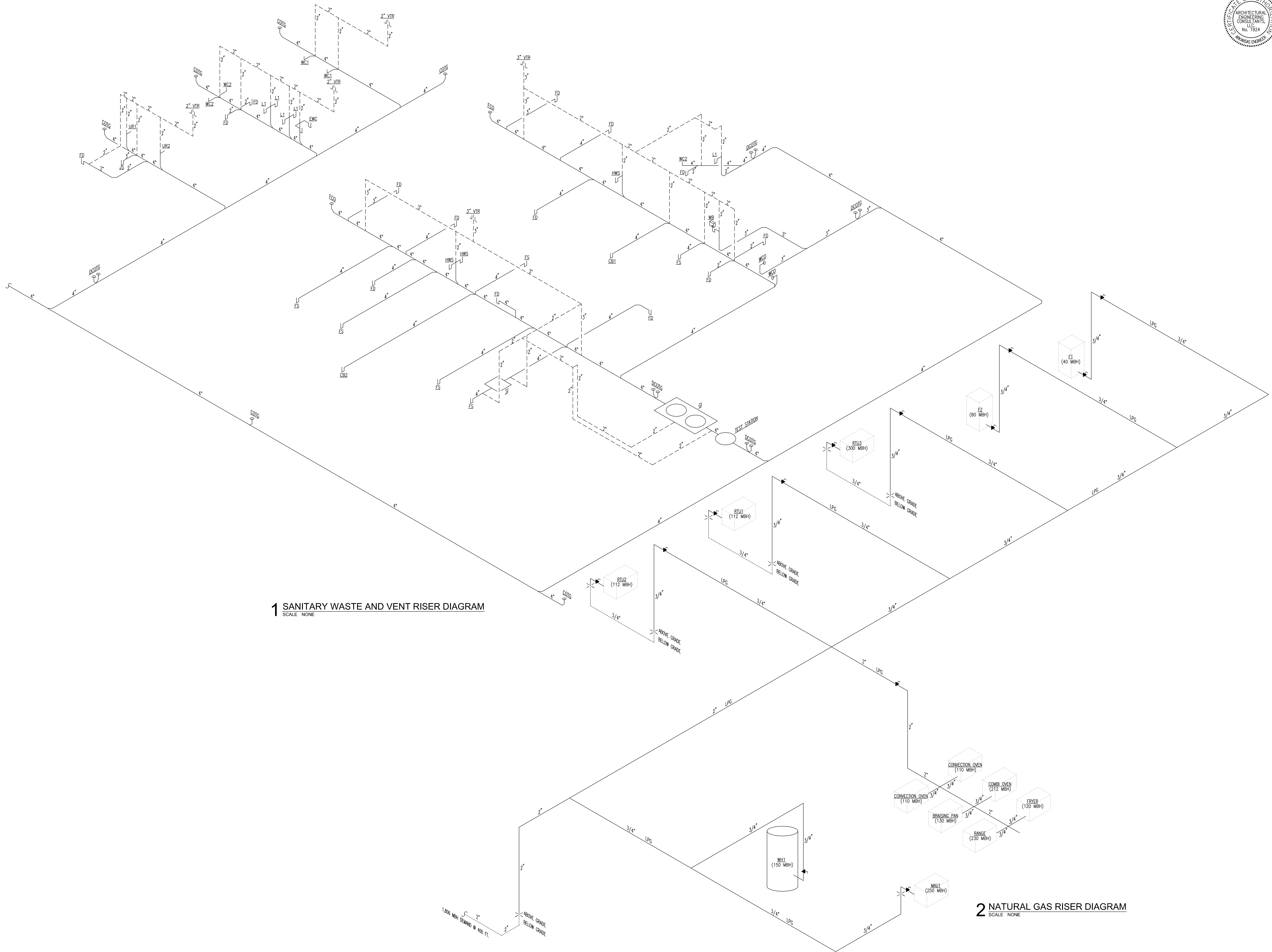


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NO.	DATE

PLUMBING RISERS

P301



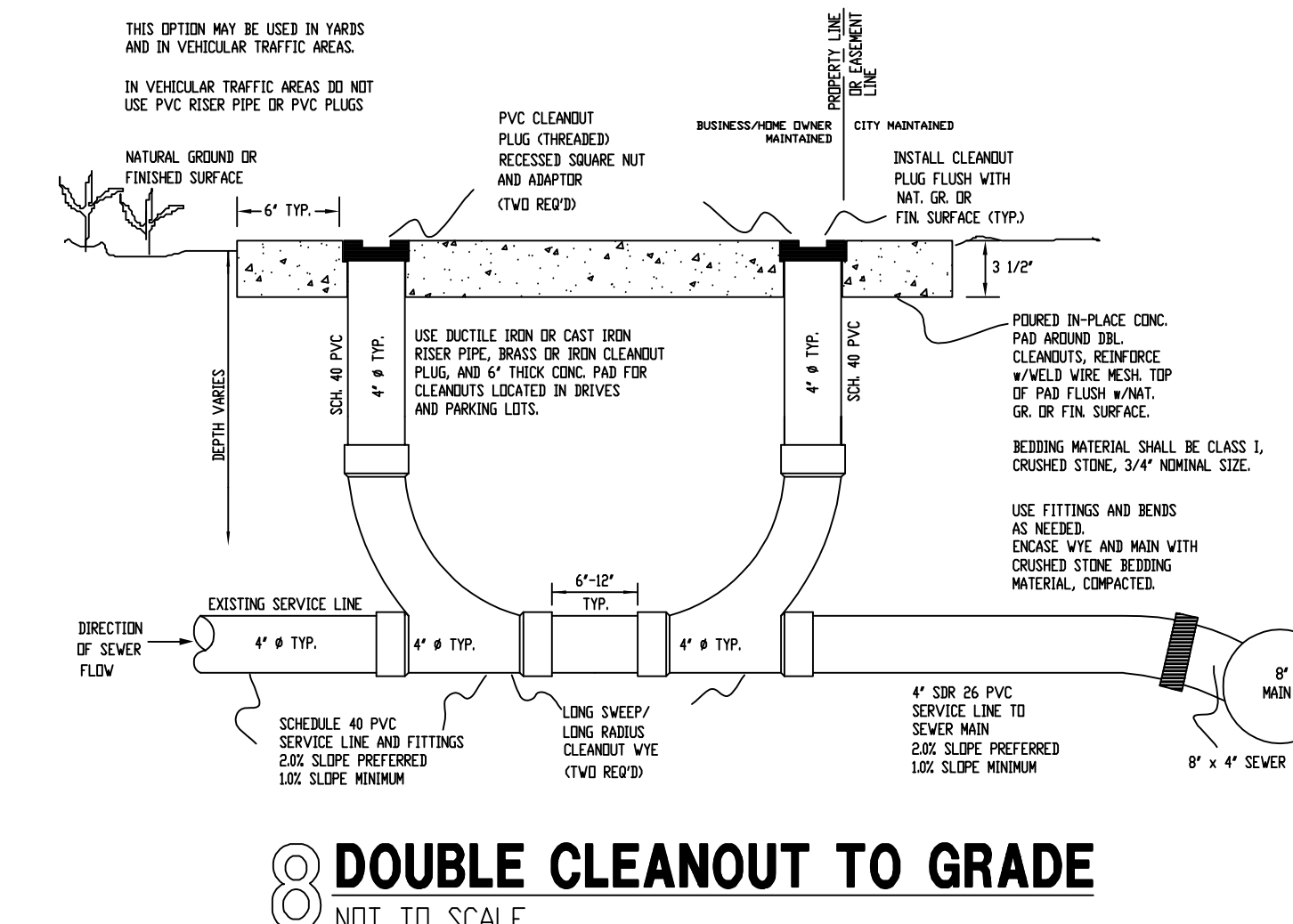
**1** SANITARY WASTE AND VENT RISER DIAGRAM  
SCALE: NONE

**2** NATURAL GAS RISER DIAGRAM  
SCALE: NONE

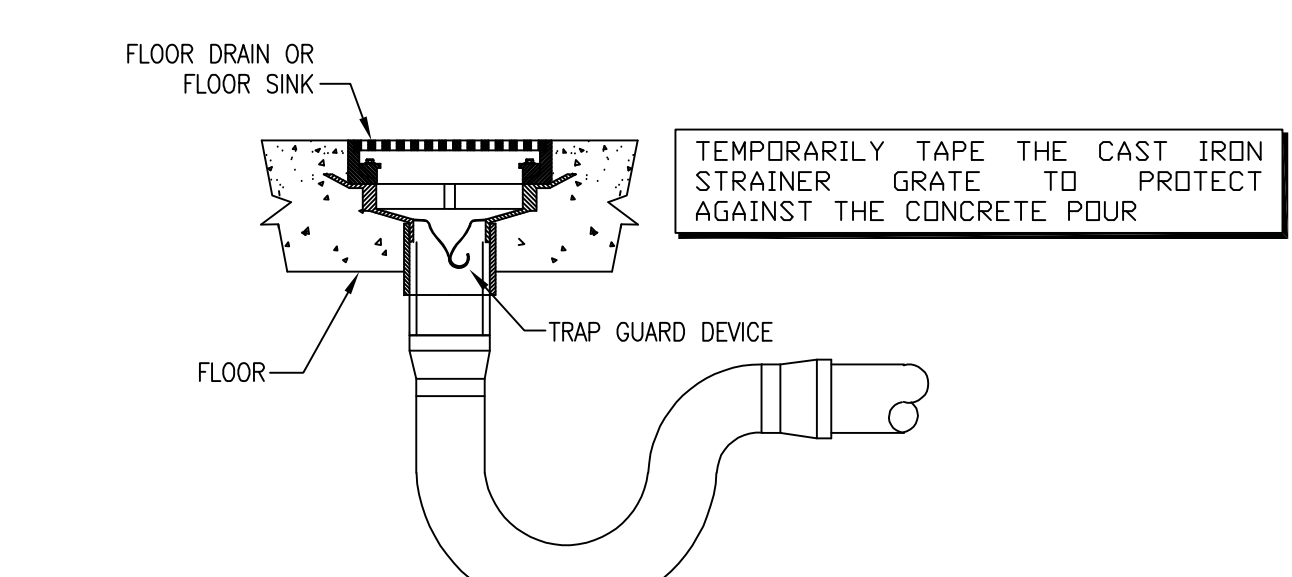


PLUMBING FIXTURES

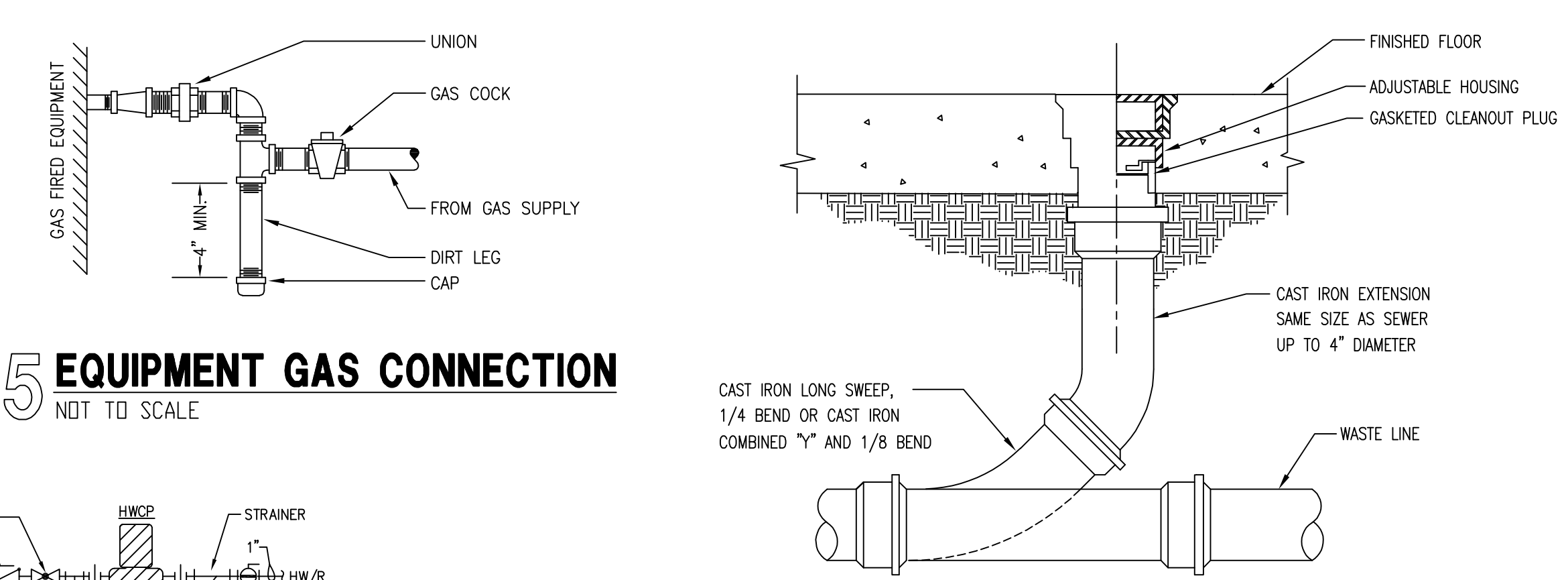
MARK	DESCRIPTION	MFR. & MDL.	ACCESSORIES	FAUCET & FITTINGS	STOPS	TRAP	WASTE ROUGH-IN	VENT ROUGH-IN		WATER ROUGH-IN		REMARKS
								HOT	COLD	HOT	COLD	
WC1	WATER CLOSET, FLOOR MOUNT, VITREOUS CHINA, FLUSH VALVE	AMERICAN STANDARD "MADERA" 3451.001	CHURCH #9500N5SC, ELONGATED OPEN FRONT SEAT, BOLT CAPS	SLOAN ROYAL 111-1.28 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	2"	---	1"		
WC2	WATER CLOSET, A.D.A., FLOOR MOUNT, VITREOUS CHINA, FLUSH VALVE	AMERICAN STANDARD "MADERA" 3043.001	CHURCH #9500N5SC, ELONGATED OPEN FRONT SEAT, BOLT CAPS	SLOAN ROYAL 111-1.28 FLUSH VALVE	INTEGRAL	INTEGRAL	4"	2"	---	1"		INSTALL TO A.D.A. HEIGHT.
UR1	URINAL, WALL HUNG, VITREOUS CHINA, WHITE COLOR	AMERICAN STANDARD "LYNBROOK" 6601.012	WADE #400-AM11 CARRIER	SLOAN ROYAL 186-1.0 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	2"	---	3/4"		
UR2	URINAL, A.D.A., WALL HUNG, VITREOUS CHINA, WHITE COLOR	AMERICAN STANDARD "LYNBROOK" 6601.012	WADE #400-AM11 CARRIER	SLOAN ROYAL 186-1.0 FLUSH VALVE	INTEGRAL	INTEGRAL	2"	2"	---	3/4"		INSTALL TO A.D.A. HEIGHT.
L1	LAVATORY, WALL MOUNT, WHITE VITREOUS CHINA, A.D.A.	AMERICAN STANDARD "LUCERNE" 0355.012	FLAT GRID STRAINER, WATTS THERMOSTATIC MIXING VALVE	DELTA 501UF-HGMDF (0.5 GPM)	McGUIRE #BV-2165-SS16	McGUIRE #8872	2"	2"	3/2"	3/2"		PROVIDE WALL CARRIER. MOUNT TO A.D.A. REQUIREMENTS, MAX. RM HEIGHT 34" A.F.F. SHIELD DRAIN AND SUPPLY PIPING WITH TRUBRO LAV GUARD OR EQUAL IN EXPOSED LOCATIONS.
JS	JANITOR'S SINK 24" x 24" x 12"	STERN-WILLIAMS SBC1500	STAINLESS STEEL CAP, CAST BRASS DRAIN BODY, STAINLESS STEEL STRAINER, AND LINT BASKET, STAINLESS STEEL SPLASH PANELS, FAT 30" FLEX HOSE, HOSE HOOKS, AND MOP HANGER W/ 3 RUBER GRIPS.	N/A	N/A	N/A	3"	2"	3/4"	3/4"		
HWS	HAND WASH SINK	JUST MANUFACTURING MODEL #A-544-912	20 GAUGE TYPE 304 STAINLESS STEEL, CENTER OUTLET, W/ CHROME P-TRAP	JUST MANUFACTURING JS-45-TGA GOOSENECK FAUCET WITH AERATOR	McGUIRE #177 STOPS	McGUIRE #8804	2"	2"	3/2"	3/2"		
EW	ELECTRIC WATER COOLER DUAL LEVEL, ALL STAINLESS STEEL FINISH, WITH ELECTRONIC BOTTLE FILLER	OASIS #PG8BEP5L	PROVIDE DUAL LEVEL WALL CARRIER	N/A	McGUIRE #BV-2165	McGUIRE #8872	1 1/4"	2"	N/A	3/2"		INSTALL ELECTRIC WATER COOLER WITH LIP OF UPPER BOWL AT 37" A.F.F. TO MEET A.D.A.
WB	WASHER BOX	GUY GRAY FB-200	PROVIDE W/ TWO 1/2" HOSE BIBB, 2" TRAP, AND DRAIN WITH EXTENDED TAILPIECE.	N/A	N/A	N/A	3"	2"	3/4"	3/4"		CONTRACTOR TO MAKE ALL CONNECTIONS. APPLIANCE BY OTHERS.
GI	100 GPM GREASE INTERCEPTOR WITH 128 GAL. SOLID CAPACITY / 510 GAL. LIQUID CAPACITY.	SCHIER GB-500	N/A	N/A	N/A	N/A	4"	2"	N/A	N/A		DETERMINE FINAL INLET ELEVATION BASED ON PLUMBING SYSTEM LAYOUT. INSTALL TRAFFIC GRADE MANHOLE LIDS SLIGHTLY ABOVE PAVEMENT / GRADE TO MINIMIZE RAINWATER ENTRY. PROVIDE WATERTIGHT GASKETS.
SI	SOLIDS INTERCEPTOR, BELOW SLAB	ZURN Z1181-R FOR BELOW SLAB INSTALLATION.	N/A	N/A	N/A	N/A	2"	2"	N/A	N/A		
HB1	HOSE BIBB HOT AND COLD	WOODFORD #C22	N/A	N/A	N/A	N/A	4"	2"	3/4"	3/4"		
HB2	FREEZELESS WALL HYDRANT	WOODFORD #65	INTEGRAL BACKFLOW PREVENTER, ALL BRONZE INTERNALS, STAINLESS STEEL FACE, AND OPERATING KEY	N/A	N/A	N/A	4"	2"	N/A	3/4"		
HB3	FREEZELESS EXTERIOR HOSE BIBB HOT / COLD IN BOX.	WOODFORD #HC87	N/A	N/A	N/A	N/A	4"	2"	3/4"	3/4"		
FD	CAST IRON DRAIN BODY, 5" DIAMETER NICKEL BRONZE STRAINER W/ SECURED SQUARE HOLE GRATE.	WADE #110VST0-5	PROSET TRAP GUARD AND DEEP SEAL TRAP	N/A	N/A	N/A	C.I./PVC	AS SHOWN	AS SHOWN	N/A		INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR
FS	CAST IRON FLOOR SINK, 12x12x8.5 3/4 GRATE	WADE #9044-1-16	3/4 GRATE, PROSET TRAP GUARD	N/A	N/A	N/A	C.I./PVC	AS SHOWN	AS SHOWN	N/A		INSTALL DRAIN SO THAT TOP OF RIM IS FLUSH WITH FLOOR
CB1	STAINLESS STEEL 24"x24" TROUGH	REGENCY 600FT2424SS	PROSET TRAP GUARD AND DEEP SEAL TRAP	N/A	N/A	N/A	C.I./PVC	AS SHOWN	AS SHOWN	N/A		INSTALL SO THAT TOP OF GRATE IS FLUSH WITH FLOOR
CB2	FLOOR DRAIN W/ FIXED TOP AND CAN WASH FEATURE, PERFORATED SS SEDIMENT BUCKET AND HEAVY DUTY REINFORCED GRATE AND MANUAL PROOF.	WADE 1970055	PROSET TRAP GUARD AND DEEP SEAL TRAP	N/A	N/A	N/A	C.I./PVC	AS SHOWN	AS SHOWN	N/A		INSTALL SO THAT TOP OF GRATE IS FLUSH WITH FLOOR
WH1	GAS WATER HEATER (PROPANE), 80 GALLON	RHEEM SPIDERFIRE CHEROKEE-150(A), 80 GALLON, PROPANE 150 MBH, 190 GPH RECOVERY AT 90 DEG. RISE	PROVIDE AUXILIARY PAN AND EQUIPMENT PAD, MANUFACTURER'S INTAKE AND COMBUSTION AIR VENT PIPING, CONCENTRATOR KIT, AND THERMOMETER W/ BRASS THERMOMETER WELL.	PROVIDE AMTROL ST-5 EXPANSION TANK.	N/A	N/A	N/A	N/A	2"	2"		EXTEND T&P TO FLOOR DRAIN AS SHOWN. VENT ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
WH2	ELECTRIC WATER HEATER, 20 GALLON	RHEEM #EGSP20-3, 20 GALLON, 3KW ELEMENT, 240/1 PHASE, 10.8 AMPS, 12 GPH RECOVERY AT 60 DEG. RISE	PROVIDE AUXILIARY PAN AND EQUIPMENT PAD	PROVIDE AMTROL ST-5 EXPANSION TANK.	N/A	N/A	N/A	N/A	3/4"	3/4"		EXTEND T&P TO FLOOR DRAIN AS SHOWN.
RPZ	LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER	WATTS MODEL LF919	PROVIDE INLET STRAINER, ISOLATION BALL VALVES, AND 4 TEST PORTS.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AS SHOWN	MOUNT IN DOMESTIC WATER SERVICE LINE, MINIMUM 18" AFF. ROUTE FULL SIZE DISCHARGE THRU AIR GAP FITTING TO EXTERIOR.
HWC1	CIRCULATING PUMP, STAINLESS STEEL VOLUTE, 120V, 1/8 HP, 3/4" FLANGED CONNECTIONS. 3 GPM AT 17 FEET HEAD.	TACO MODEL 0014-SF1	PROVIDE ISOLATION VALVES, PLUG SET, TIMER, AND AQUASTAT PACKAGE.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AS SHOWN	INSTALL VERTICALLY IN PIPING RISER.
HWC2	CIRCULATING PUMP, STAINLESS STEEL VOLUTE, 120V, 1/25 HP, 3/4" FLANGED CONNECTIONS. 2 GPM AT 10 FEET HEAD.	TACO MODEL 007-SF5	PROVIDE ISOLATION VALVES, PLUG SET, TIMER, AND AQUASTAT PACKAGE.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AS SHOWN	INSTALL VERTICALLY IN PIPING RISER.
MV1	LEAD FREE THERMOSTATIC WATER MIXING VALVE, 29 GPM FLOW AT 10 PSI PRESSURE DROP.	LEONARD MODEL TM-820-LF	SOLID BI-METAL THERMOSTAT, COLOR-CODED DIALS, LOCKING TEMPERATURE REGULATOR HANDLES, ADJUSTABLE LIMIT STOPS, INTEGRAL HOT AND COLD SUPPLY CHECKSTOPS, OUTLET BALL VALVE SHUTOFFS, COLOR-CODED DIAL THERMOMETER, INLET PIPING MANIFOLD, ROUGH BRONZE FINISH, ASSE 1017 LISTED.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	AS SHOWN	FACTORY PRE-ASSEMBLED AND TESTED. SET TO 120°F DISCHARGE.



**8 DOUBLE CLEANOUT TO GRADE**  
NOT TO SCALE

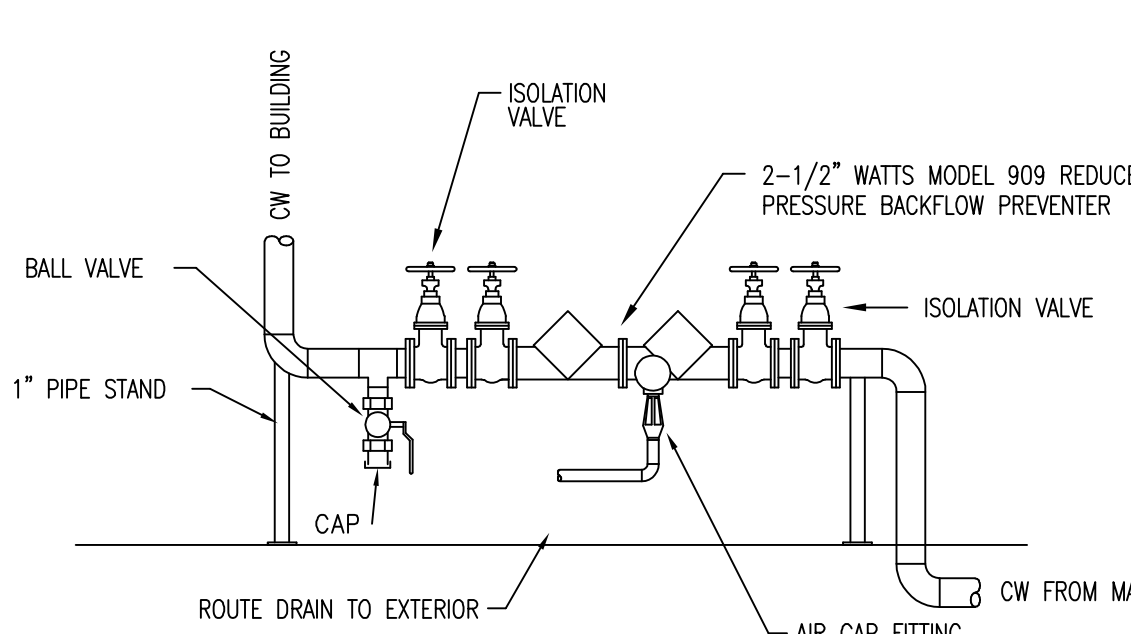


**7 FLOOR DRAIN WITH TRAP GUARD**  
NOT TO SCALE

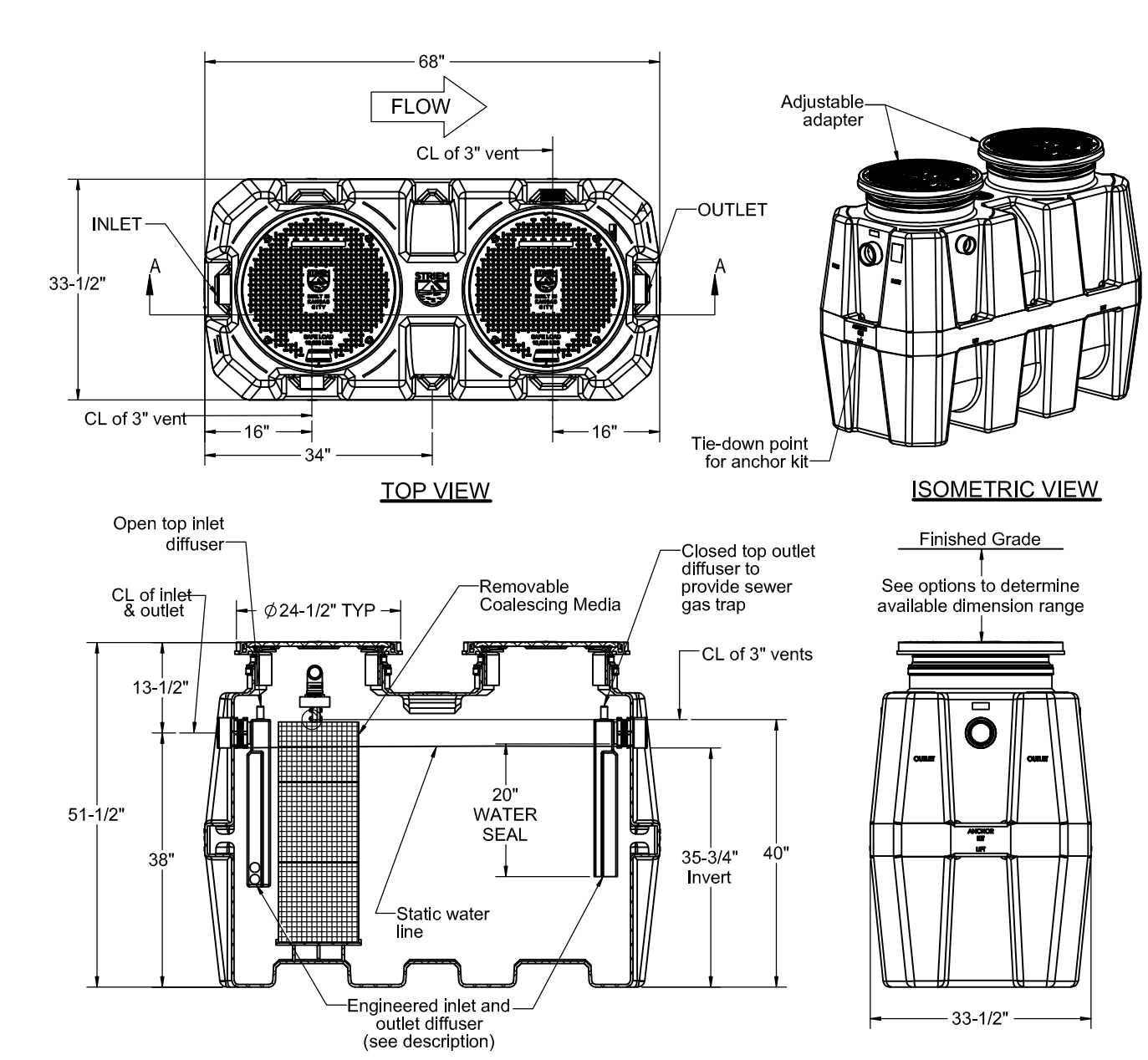


**5 EQUIPMENT GAS CONNECTION**  
NOT TO SCALE

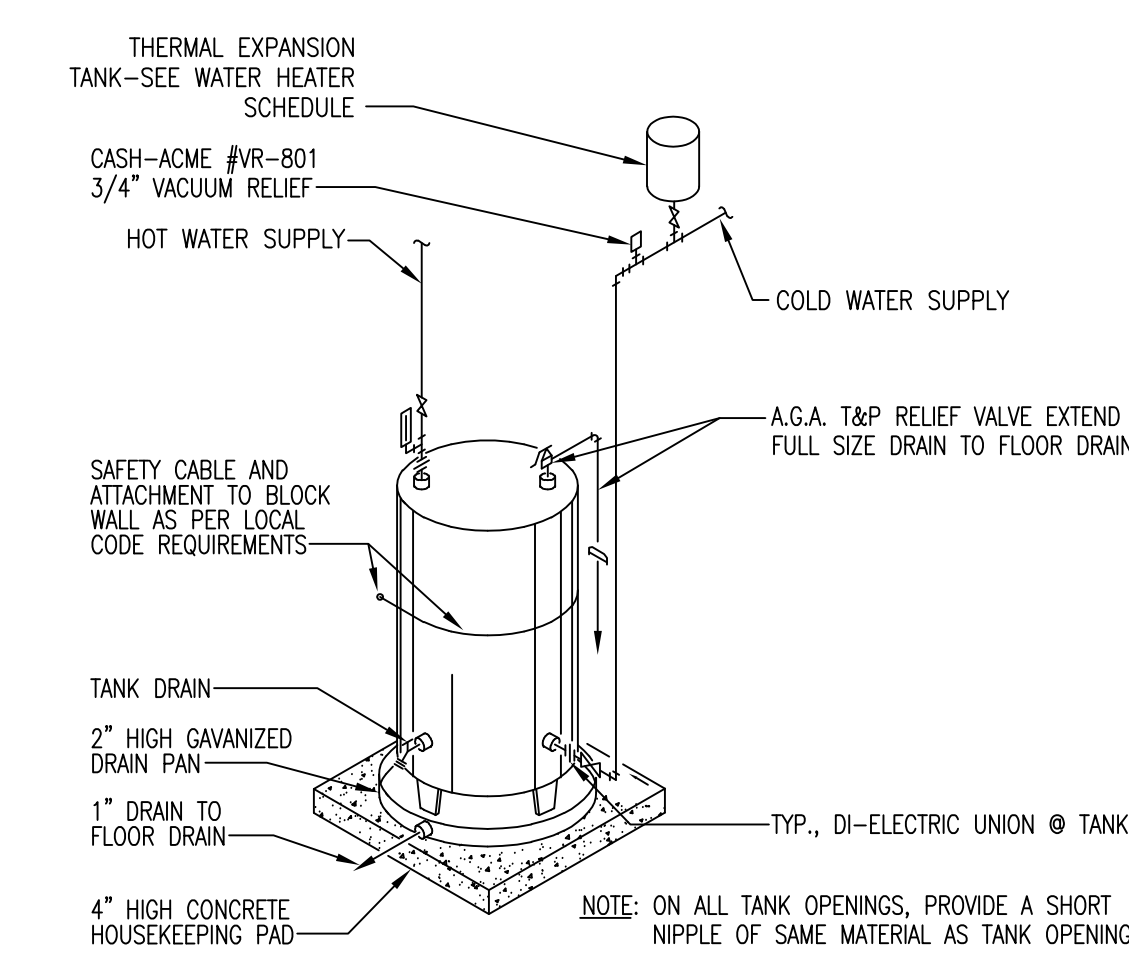
**6 FLOOR CLEANOUT DETAIL**  
NOT TO SCALE



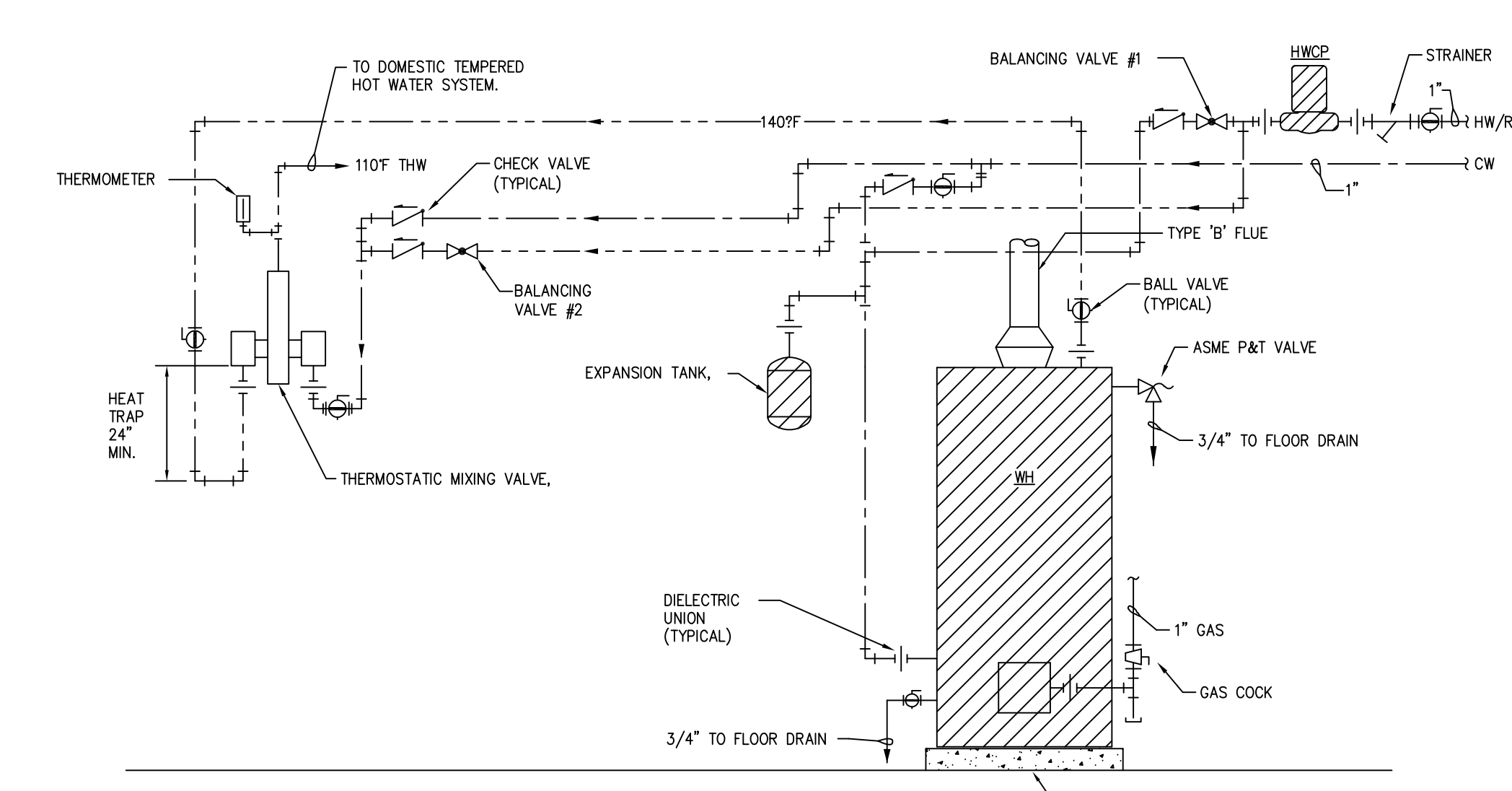
**4 DOMESTIC WATER RPZ DETAIL**  
NOT TO SCALE



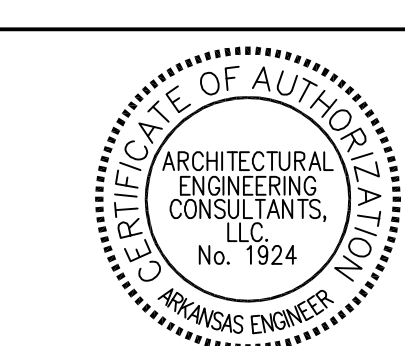
**1 GREASE INTERCEPTOR DETAIL**  
NOT TO SCALE



**2 ELECTRIC WATER HEATER DETAIL**  
NOT TO SCALE



**3 PROPANE FIRED WATER HEATER**  
NOT TO SCALE



**CAFETERIA AND MULTI-PURPOSE ROOM**  
Project Number: 1920-3809-001  
FOR HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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### ABBREVIATIONS

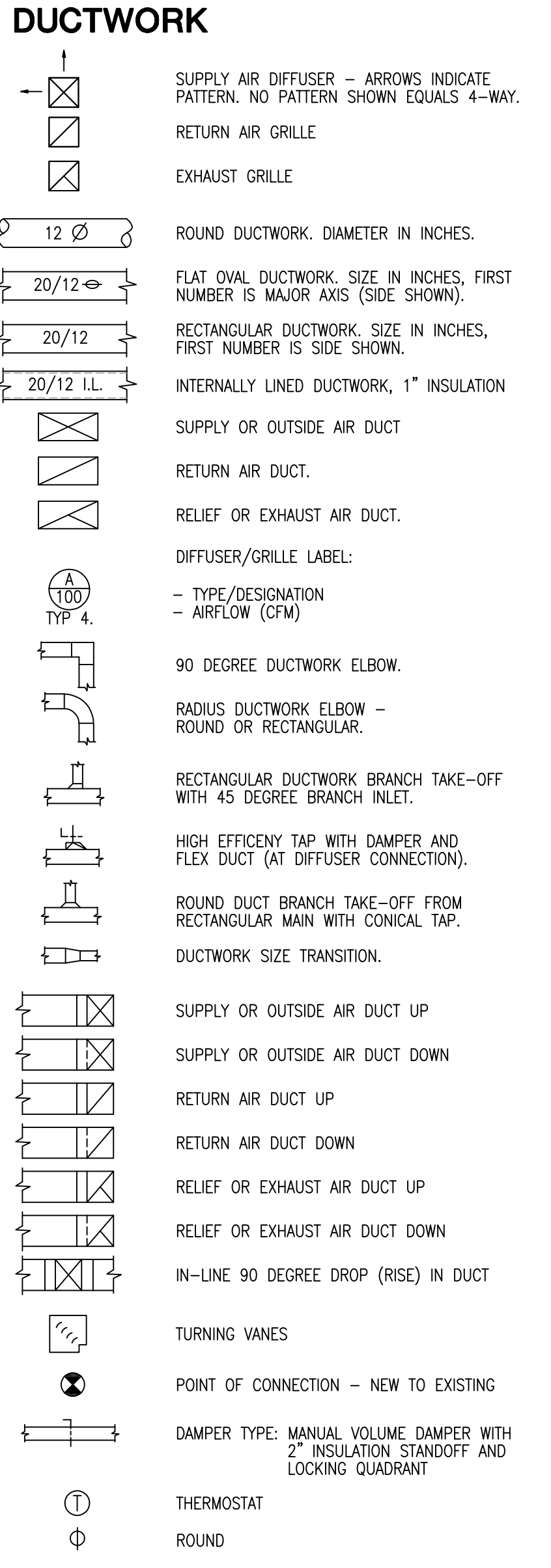
1) ALL ABBREVIATIONS SHOWN MAY NOT BE APPLICABLE TO THIS PROJECT.  
2) REFER TO EQUIPMENT SCHEDULES FOR EQUIPMENT DESIGNATIONS.  
3) REFER TO PIPING DESIGNATIONS AND TYPES FOR PIPE ABBREVIATIONS.

<b>A</b>	ABV ABOVE FINISHED FLOOR AFF ABOVE FINISHED GRADE AMP AMPERES ANSI AMERICAN NAT'L STANDARDS INSTITUTE APD AIR PRESSURE DROP ARCH ARCHITECT, ARCHITECTURAL AIRC AIR CONDITIONING & REFRIG. INSTITUTE ASTM AMERICAN SOCIETY OF TESTING & MATLS AUX AUXILIARY AWC AMERICAN WIRE GAUGE AWW AMERICAN WATER WORKS ASSOC.	<b>L</b>	LENGTH LAT LEAVING AIR TEMPERATURE LBS # POUNDS LDB LEAVING DRY BULB LF LINEAR FEET LP LOW PRESSURE LRA LOCKED ROTOR AMPS LTC LIGHTING LWB LEAVING WET BULB LWT LEAVING WATER TEMPERATURE
<b>B</b>	BLDG BUILDING BOD BOTTOM OF DUCT BOP BOTTOM OF PIPE BOS BOTTOM OF STRUCTURE BTU BRITISH THERMAL UNIT	<b>M</b>	MAX MAXIMUM MBTU/MH 1000 BTU PER HOUR MCA MINIMUM CIRCUIT AMPACITY MECH MECHANICAL MFR MANUFACTURER MOP MAXIMUM OVER CURRENT PROTECTION MHP MANHOLE, METAL HALIDE
<b>C</b>	CONN CONNECT, CONNECTION CFM CUBIC FEET PER MINUTE CFY CUBIC FEET PER HOUR CIRC CIRCULATING CLG CLEANOUT CO CLEANOUT TO GRADE COTG COPPER CW COLD WATER	<b>N</b>	N/A NOT APPLICABLE NC NOISE CRITERIA, NORMALLY CLOSED NEC NATIONAL ELECTRICAL CODE NEMA NATIONAL ELECTRICAL MFR'S ASSOC. NFPA NATIONAL FIRE PROTECTION ASSOC. NTPA NOT TO SCALE
<b>D</b>	DB DRY BULB DEG DEGREES DESIG DESIGNATION DIA (OR Ø) DIAMETER DIM DIMENSION DISC DISCONNECT DN DOWN DX DIRECT EXPANSION	<b>O</b>	OA OUTSIDE AIR OBD OPPOSED BLADE DAMPER OD OUTSIDE DIAMETER OH OVERHEAD
<b>E</b>	EAT ENTERING AIR TEMPERATURE EEDB ENTERING DRY BULB EA EXHAUST AIR ESP EXTERNAL STATIC PRESSURE EWC ELECTRICAL WATER COOLER EXH EXHAUST	<b>P</b>	PD PRESSURE DROP PNL PANEL PSF POUNDS PER SQUARE FOOT PSI POUNDS PER SQUARE INCH PVC POLYVINYL CHLORIDE
<b>F</b>	FA FIRE ALARM FACP FIRE ALARM CONTROL PANEL FCO FLOOR CLEANOUT FLA FULL LOAD AMPS FLX FLEXIBLE FPM FEET PER MINUTE FT FOOT, FEET F DEGREES FAHRENHEIT	<b>Q</b>	QTY QUANTITY
<b>G</b>	GRND GROUND GC GENERAL CONTRACTOR GFI GFCI GROUND FAULT INTERRUPTER GPH GALLONS PER HOUR GPM GALLONS PER MINUTE	<b>R</b>	RA RETURN AIR RCP REFLECTED CEILING PLAN REINFR REINFORCING, REINFORCED REQD REQUIRED RH RELATIVE HUMIDITY RLA RUNNING LOAD AMPS RPM REVOLUTIONS PER MINUTE
<b>H</b>	HD HEIGHT HD HEAD, HUB DRAIN HORIZ HORIZONTAL HP HORSEPOWER HTG HEATING HTR HEATER HVAC HEATING, VENTILATING & A/C HW HOT WATER HYD HYDRANT HZ HERTZ	<b>S</b>	SA SUPPLY AIR SF SQUARE FEET, SQUARE FOOT SMACNA SHEET METAL & A/C CONT. NAT'L ASSOC. SP STATIC PRESSURE SPEC SPECIFICATION SQ SQUARE SS STAINLESS STEEL, SANITARY SEWER STD STANDARD
<b>I</b>	ID INSIDE DIAMETER IE INVERT ELEVATION IN INCH, INCHES IN WC INCHES OF WATER COLUMN	<b>T</b>	THRU THROUGH TP TOTAL PRESSURE TSP TOTAL STATIC PRESSURE TYP TYPICAL
<b>J</b>	J-BOX JUNCTION BOX	<b>U</b>	U/G UNDERGROUND UL UNDER SLAB UL UNDERWRITERS LABORATORIES, INC.
<b>K</b>	KW KILOWATTS KWH KILOWATT-HOUR	<b>V</b>	V VOLT VA VOLT-AMPERE VAC VACUUM VERT VERTICAL VTR VENT THROUGH ROOF
		<b>W</b>	W WATT, WIDTH W/O WITHOUT WB WET BULB WC WATER COLUMN WPD WATER PRESSURE DROP WT WATERTIGHT, WEIGHT
		<b>X</b>	XFMR TRANSFORMER

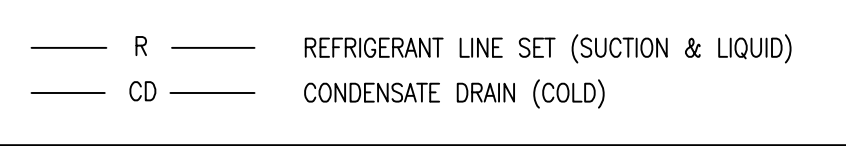
### GENERAL NOTES

1. ALL WORK MUST COMPLY WITH THE REQUIREMENTS OF LOCAL CODES AND ORDINANCES. WHERE INSPECTIONS ARE REQUIRED BY AUTHORITIES HAVING JURISDICTION, WORK MUST NOT BE CONCEALED UNTIL INSPECTIONS AND TESTING ARE COMPLETED AND ACCEPTED.
2. PRIOR TO BID, CONTRACTOR MUST BECOME THOROUGHLY FAMILIAR WITH THE REQUIREMENTS OF THE GENERAL NOTES AS WELL AS ALL OTHER NOTES SHOWN ON THE CONTRACT DOCUMENTS. VISIT THE SITE TO ESTABLISH THE EXISTING CONDITIONS PRIOR TO BID AND PRIOR TO ANY DUCT, PIPE, OR EQUIPMENT FABRICATION. SYSTEMS MUST BE ERECTED USING CONTRACTOR'S FIELD MEASUREMENTS FOR COORDINATION WITH EQUIPMENT, STRUCTURE, FIRE PROTECTION, AND ELECTRICAL CONDITIONS IN THE SPACE.
3. ALL CONTRACT DOCUMENTS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE DRAWINGS.
4. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, MUST BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
5. EXCEPT WHERE INDICATED OTHERWISE, THE NOTATION OR DESCRIPTION OF ANY ITEM IN THE CONTRACT DOCUMENTS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM, WHETHER OR NOT THIS INSTRUCTION IS EXPLICITLY STATED.
6. ALL SYSTEMS INSTALLATION MUST MAINTAIN INTEGRITY OF WALLS, PARTITIONS AND FLOORS DESIGNATED AS EITHER FIRE RATED OR "SMOKE TIGHT". SEAL AROUND ALL PENETRATIONS THROUGH RATED OR SMOKE TIGHT ASSEMBLIES. COORDINATE W/ARCHITECTURAL PLANS AND GENERAL CONTRACTOR.
7. COORDINATE PLACEMENT OF ALL MECHANICAL RELATED EQUIPMENT AND DEVICES WITH OTHER TRADES. DO NOT POSITION OR INSTALL ANY MECHANICAL EQUIP. OR DEVICES IN ANY SYSTEM IN SUCH A MANNER THAT IT WILL BE INACCESSIBLE OR UNMAINTAINABLE AFTER CONSTRUCTION IS COMPLETED. PROVIDE DUCT ACCESS DOORS AT FIRE DAMPERS, ETC.
8. NO OTHER TRADES ARE ALLOWED TO BE SUPPORTED FROM MATERIALS, EQUIPMENT OR DEVICES INSTALLED BY THE MECHANICAL TRADES. LIKEWISE, ALL WORK INSTALLED BY THE MECHANICAL TRADES MUST BE SUPPORTED FROM THE STRUCTURE ABOVE, FROM WALLS, OR FROM THE FLOOR UNLESS OTHERWISE INDICATED.
9. HOUSEKEEPING PADS: EXCEPT WHERE STRUCTURAL EQUIPMENT SUPPORT PADS ARE CALLED FOR ON THE PLANS, PROVIDE CONCRETE HOUSEKEEPING PADS FOR ALL GROUND AND/OR FLOOR MOUNTED EQUIPMENT. UNLESS OTHERWISE INDICATED, PADS MUST BE A MINIMUM OF 4 INCHES THICK WITH CHAMFERED EDGES. WHERE PADS ARE INSTALLED ON CONCRETE FLOORS, DOWN RODS PENETRATING INTO BOTH THE PAD AND THE SUPPORTING FLOOR (MINIMUM OF FOUR RODS PER PAD) MUST BE USED TO ANCHOR PADS IN POSITION.
10. REPLACE OR REPAIR ALL ARCHITECTURAL FEATURES REMOVED OR DAMAGED DURING THE COURSE OF THE WORK. REPAIR OR REPLACEMENT MUST, AS A MINIMUM, EQUAL ORIGINAL CONDITION. SPECIAL CARE MUST BE TAKEN ON THE ROOFS TO PREVENT DAMAGE. ANY DAMAGE MUST BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER. COMPLY WITH BONDING REQUIREMENTS OF THE ROOFING MANUFACTURER.
11. ALL WIRING INSTALLED FOR CONTROLS, POWER, INTERLOCKS, ETC. WHICH ARE TO BE INSTALLED MUST BE INSTALLED IN CONDUIT UNLESS OTHERWISE INDICATED. ALL SUCH INSTALLATIONS MUST MEET NFPA AND NEC REQUIREMENTS, AND LOCAL CODES.
12. SEAL ALL ROOF AND WALL PENETRATIONS. FLASH AND COUNTER-FLASH ALL ROOF PENETRATIONS. MINIMUM ACCEPTABLE HEIGHT OF FLASHING IS TWELVE (12) INCHES ABOVE ROOF.
13. ALL MECHANICAL WORK MUST BE INSTALLED AS HIGH AS POSSIBLE SO AS TO MAINTAIN THE MAXIMUM POSSIBLE CLEARANCE ABOVE FINISHED FLOOR.
14. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL AIR DEVICE LOCATIONS.
15. FABRICATION AND INSTALLATION OF HVAC WORK IS TO COMPLY WITH SMACNA AND ALL APPLICABLE CODES.
16. HVAC DUCTWORK SHALL BE PRESSURE TESTED TO A SMACNA CLASS 2 INCH PRESSURE CLASS AND DUCTS SHALL BE SEALED TO SMACNA CLASS A.
17. DUCT SIZES SHOWN ON PLANS INDICATE MINIMUM REQUIRED CLEAR INSIDE DIMENSIONS. ADJUST DUCT SIZES FOR LINER THICKNESS WHERE APPLICABLE OR WHERE SHOWN. SEE NOTES AND/OR SPECIFICATIONS FOR INSULATION TYPE AND STANDARDS.
18. PROVIDE FLEXIBLE CONNECTIONS ON DUCT INLET AND OUTLET CONNECTIONS TO ALL FURNACE UNITS AND EXHAUST FANS.
19. PROVIDE DUCT TRANSITIONS AS REQUIRED AT EQUIPMENT AND DEVICE CONNECTIONS WHERE DUCT SIZES INDICATED DIFFER FROM THE DUCT CONNECTION SIZE OR DUCT COLLAR.
20. PROVIDE TURNING VANES AT ALL 90 DEGREE ELBOWS INSTALLED TANGENT TO THE AIR STREAM. WHERE DUCT DIMENSIONS REQUIRE TURNING VANES TO BE 24 INCHES OR GREATER IN LENGTH, THE TURNING VANES MUST BE DOUBLE THICKNESS.
21. MAINTAIN MINIMUM CLEAR DISTANCE OF 1'-0" BETWEEN PARAPET WALL AND ALL ROOF MOUNTED MECHANICAL EQUIPMENT (FANS, RTU'S, CONDENSERS, ETC.). MAINTAIN A CLEAR DISTANCE OF 1'-0" MINIMUM BETWEEN PARAPET WALL AND FLUES FROM GAS BURNING EQUIPMENT. OFFSET DUCTS AND FLUES BELOW ROOF AS REQUIRED TO ACCOMPLISH THESE CLEARANCES.
22. MAINTAIN A MINIMUM OF 15'-0" BETWEEN ALL FRESH AIR INTAKES AND PLUMBING VENTS, EXHAUST FAN DISCHARGE, FLUES, ETC. COORDINATE WITH ALL OTHER CONTRACTORS ON SITE.
23. ALL DUCTS MUST BE MOUNTED AS HIGH AS POSSIBLE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET ALL DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN MAXIMUM HEIGHT ABOVE FINISHED FLOOR (AFF).
24. COORDINATE FINAL PLACEMENT OF ALL THERMOSTATS WITH WALL MOUNTED DEVICES AND OWNER'S REPRESENTATIVE. MOUNT THERMOSTATS AT 54" AFF. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL MUST BE MOUNTED ON AN INSULATED PAD.
25. PROVIDE ACCESS DOORS AT ALL DUCTS, EQUIPMENT, COILS, ETC. WHERE NOT DIRECTLY ACCESSIBLE THROUGH AIR DEVICES OR REMOVABLE CEILING GRID, OR BEHIND CHASE WALLS. MINIMUM SIZE SHALL BE 18" X 18" UNLESS NOTED OTHERWISE. COORDINATE WITH GENERAL CONTRACTOR, OWNER'S REPRESENTATIVE, AND ARCHITECT.
26. BALANCE MECHANICAL SYSTEMS TO PROVIDE INDICATED FLOWS. SEE SPECIFICATIONS FOR OTHER TEST AND BALANCE REQUIREMENTS. SUBMIT FINAL BALANCE REPORT OF MECHANICAL SYSTEMS (FLOW AND TEMPERATURE) FOR REVIEW.
27. ANY PIPE LENGTHS, UNIT OR DEVICE COUNTS SHOWN ON THE PLANS ARE INDICATED ONLY FOR THE PURPOSES OF ASSISTING THE PLAN CHECK PROCESS OF THE LOCAL AUTHORITIES FOR THE PURPOSE OF OBTAINING A CONSTRUCTION PERMIT. SUCH QUANTITIES ARE NOT INTENDED FOR USE BY THE CONTRACTOR AS A SUBSTITUTE FOR PERFORMING AN ACTUAL MATERIALS TAKEOFF FOR BID PURPOSES. NO EXTRAS ARE ALLOWED FOR FAILURE ON THE CONTRACTOR'S PART TO PERFORM A PROPER AND COMPLETE MATERIALS TAKEOFF FOR THE BID.
28. FURNACE DRAINAGE SYSTEMS HAVE PRIORITY OVER OTHER SYSTEMS WITH REGARD TO ROUTING. CEILING MOUNTED SPRINKLER, LIGHTING, AND ELECTRICAL REQUIREMENTS TAKE PRECEDENCE OVER CEILING MOUNTED MECHANICAL REQUIREMENTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING GRID AND LIGHTING LAYOUT FOR COORDINATION OF FINAL AIR DEVICE LOCATIONS.
29. RETURN AIR FURNACE PLENUMS SHALL BE FABRICATED OF NON-COMBUSTIBLE MATERIALS AND AT AN ELEVATION SUCH THAT THE EASY REMOVAL OF THE FURNACE UNIT AND EVAPORATOR COIL CAN BE ACCOMPLISHED WITHOUT DISASSEMBLING THE UNIT.
30. INSTALL ALL HVAC EQUIPMENT SERVING THE SAFE ROOM PORTION OF THIS PROJECT IN ACCORDANCE WITH FEMA P-361.

### HVAC SYMBOLS

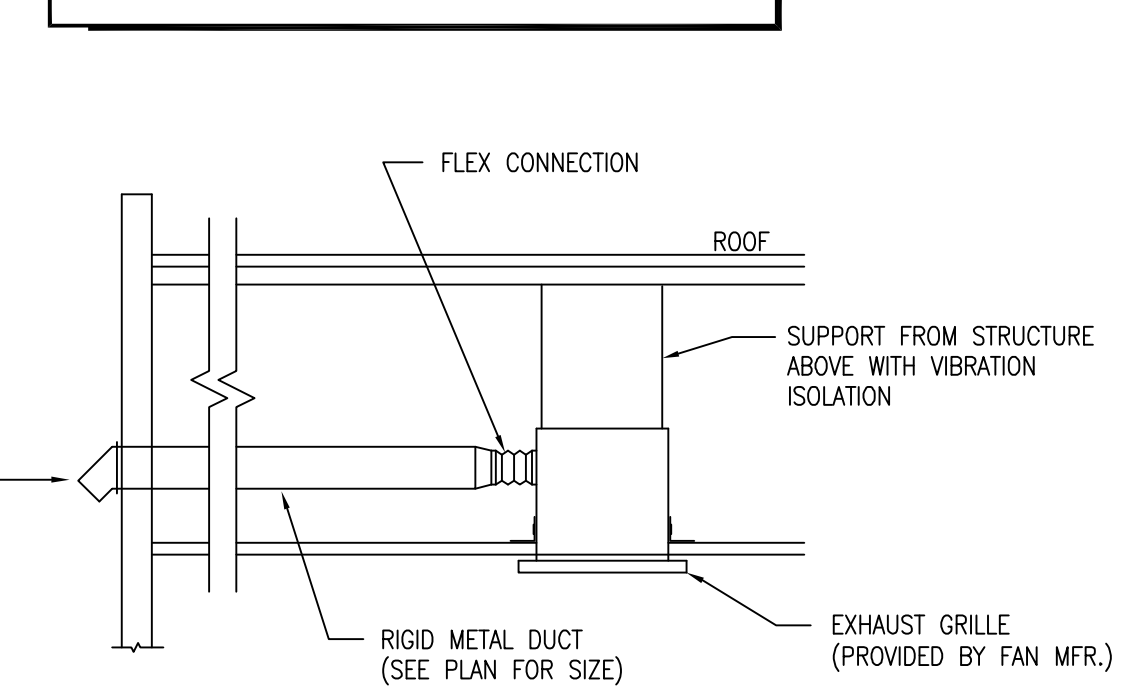


### MECHANICAL PIPING DESIGNATIONS

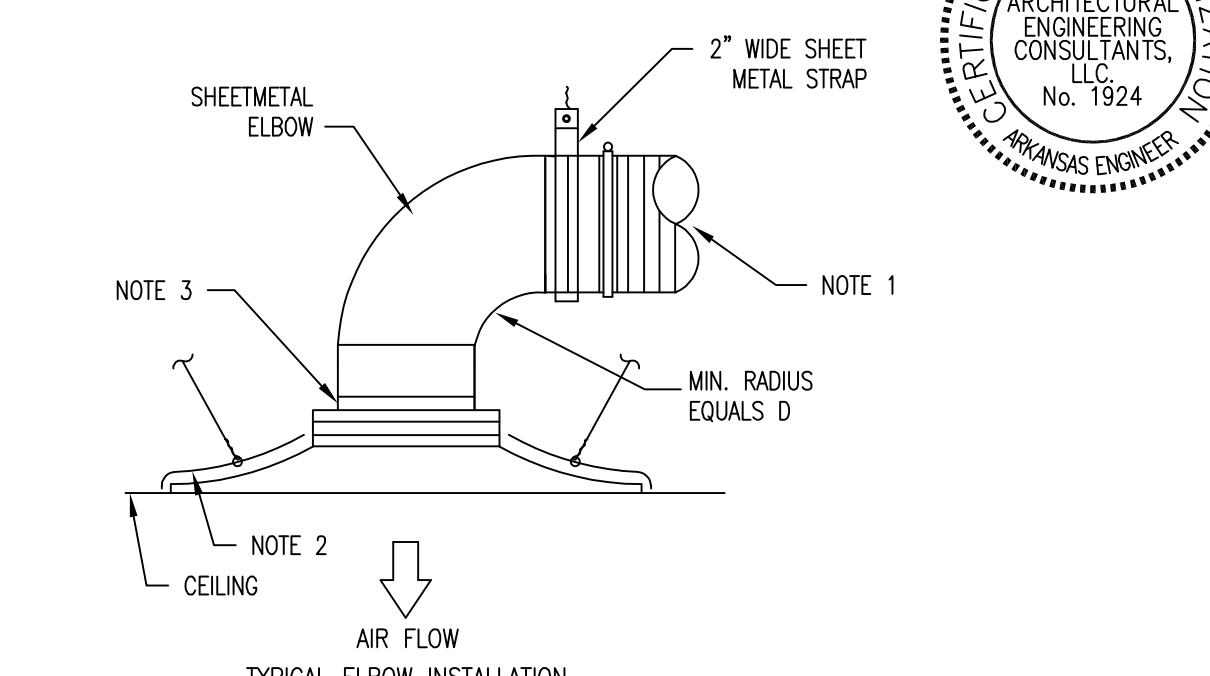


### EXHAUST FAN SEQUENCE OF OPERATION

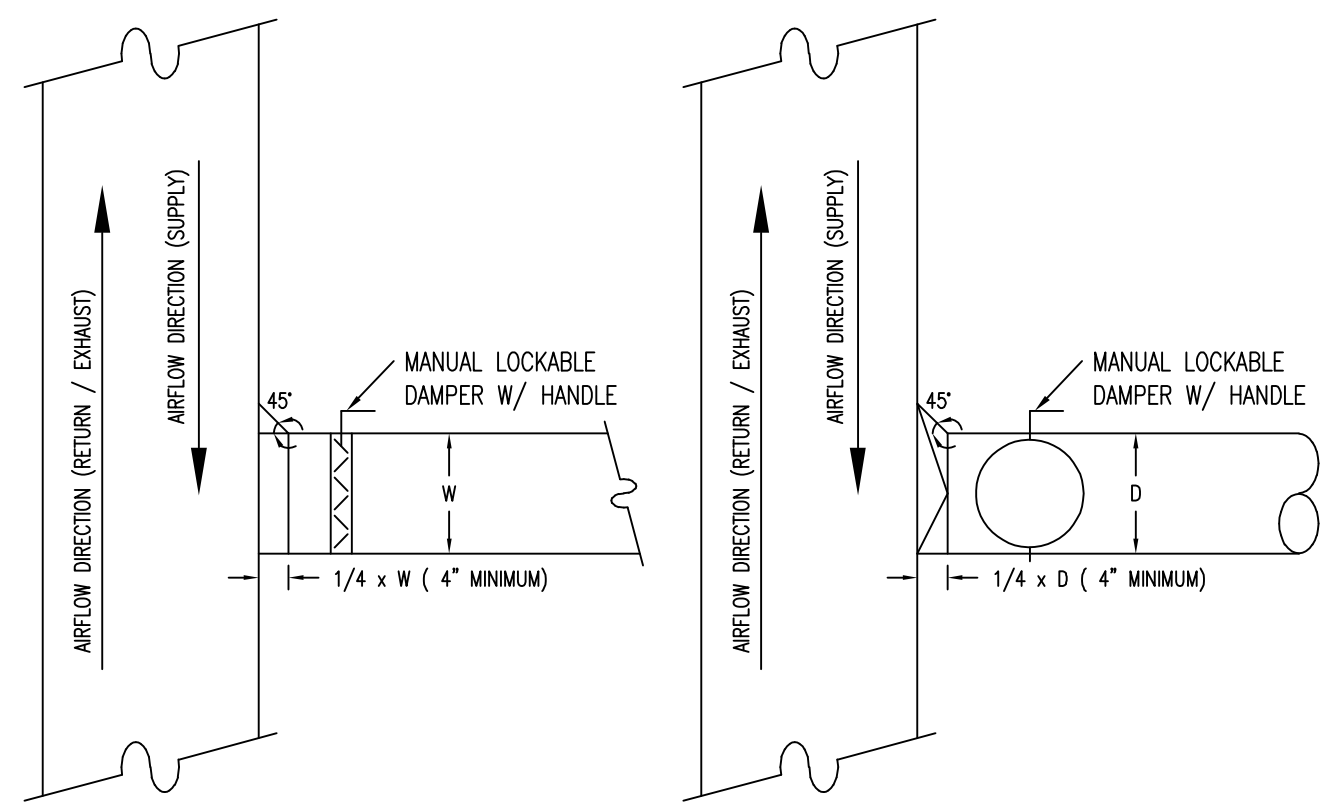
TOILET EXHAUST FANS SHALL BE INTERLOCKED WITH REST ROOM LIGHTS.



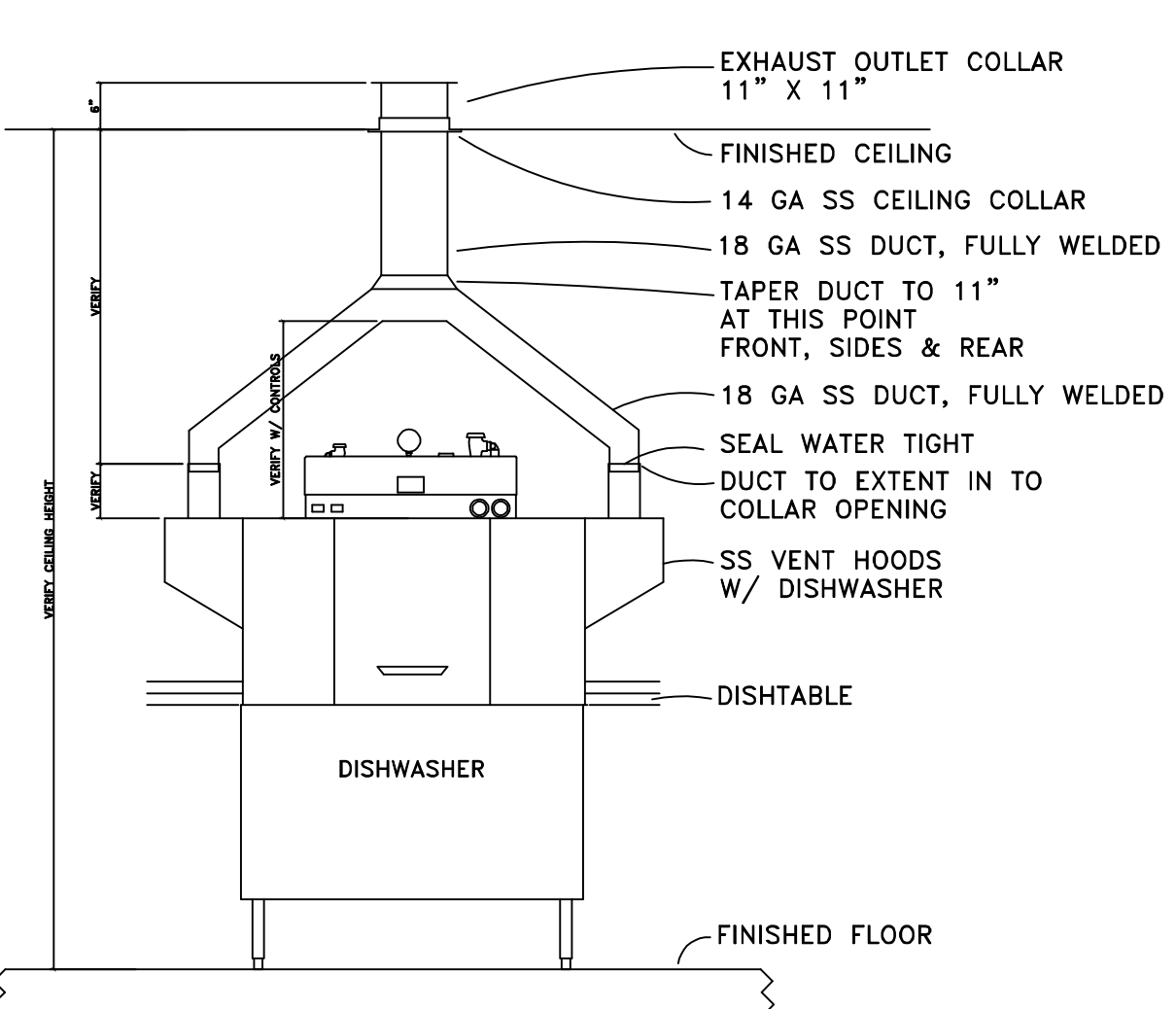
1 CEILING EXHAUST FAN DETAIL  
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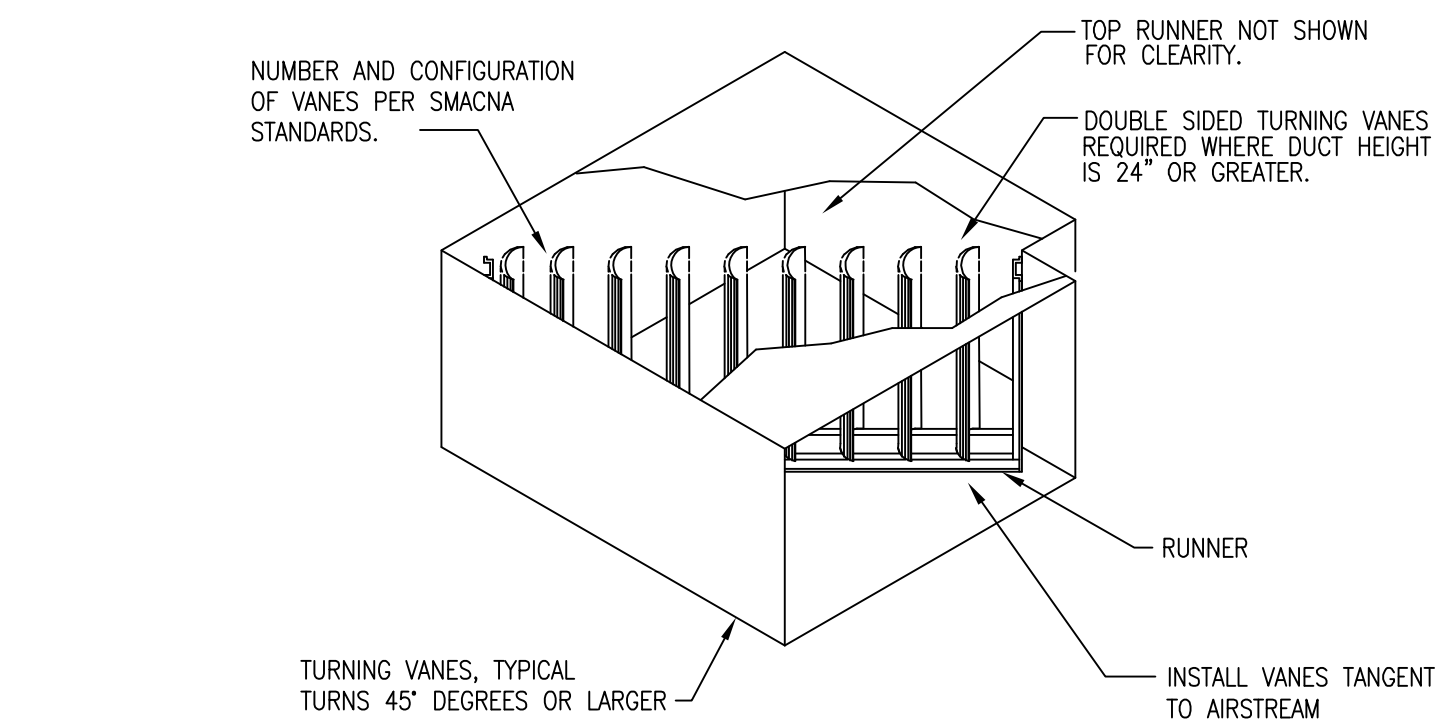
2 CEILING SUPPLY AIR DEVICE DETAIL  
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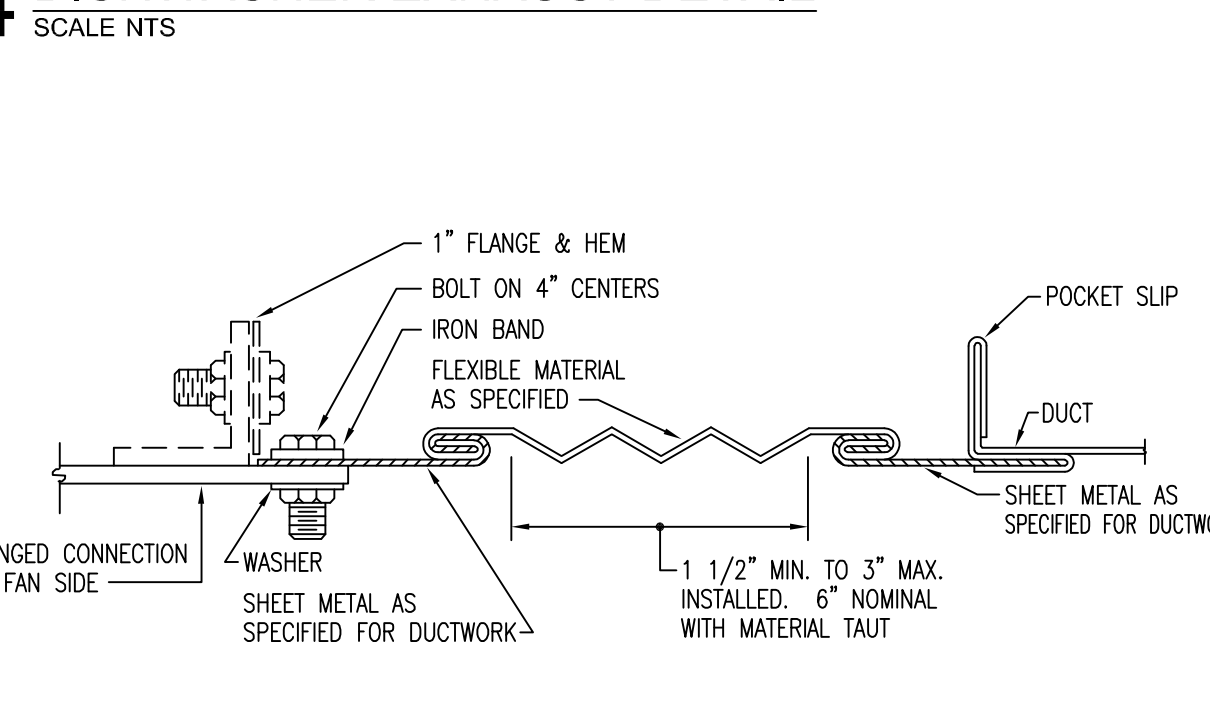
3 BRANCH DUCT CONNECTIONS  
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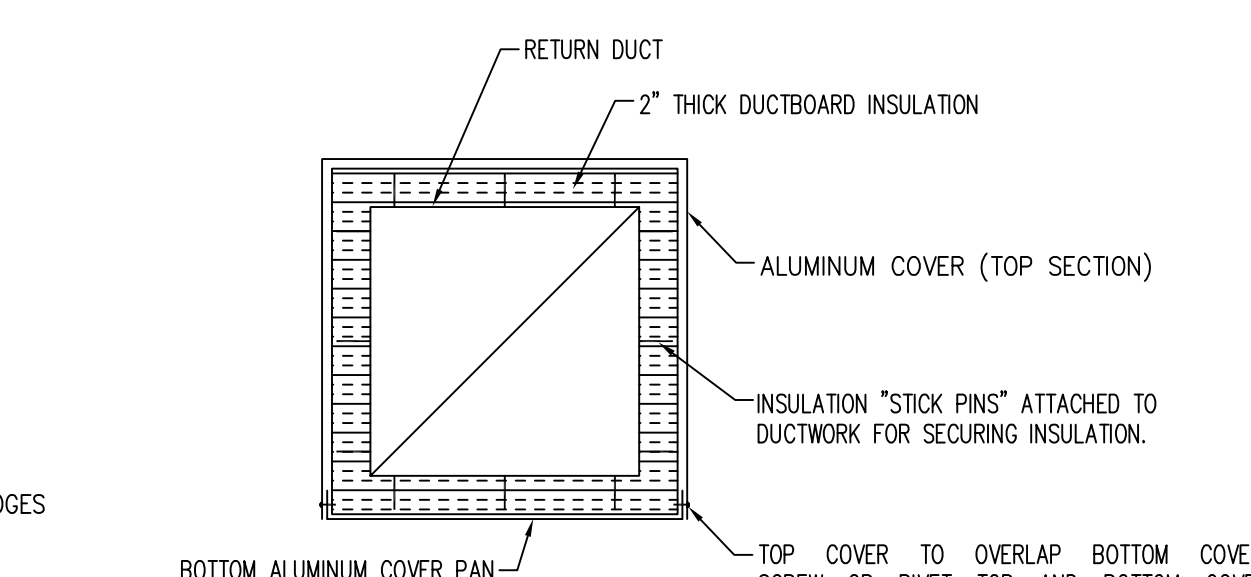
4 DISHWASHER EXHAUST DETAIL  
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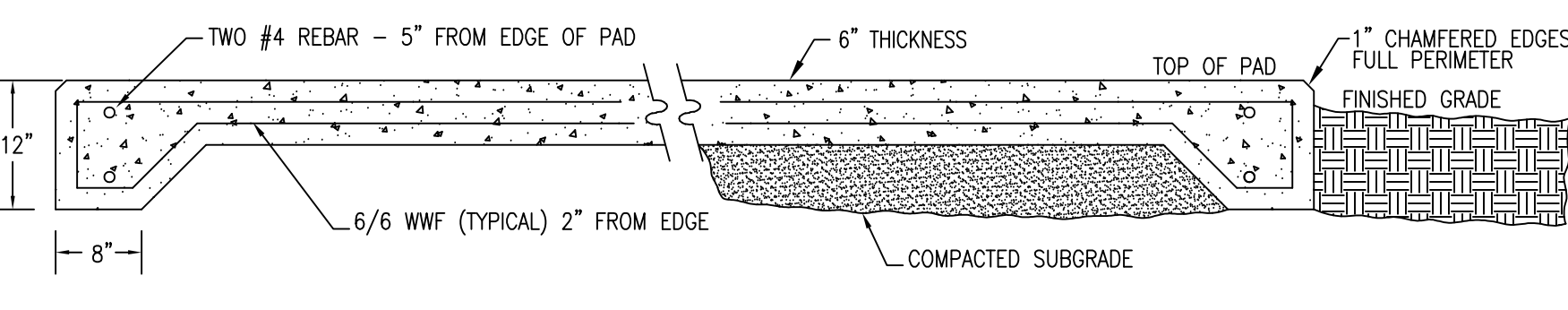
5 TURNING VANES DETAIL  
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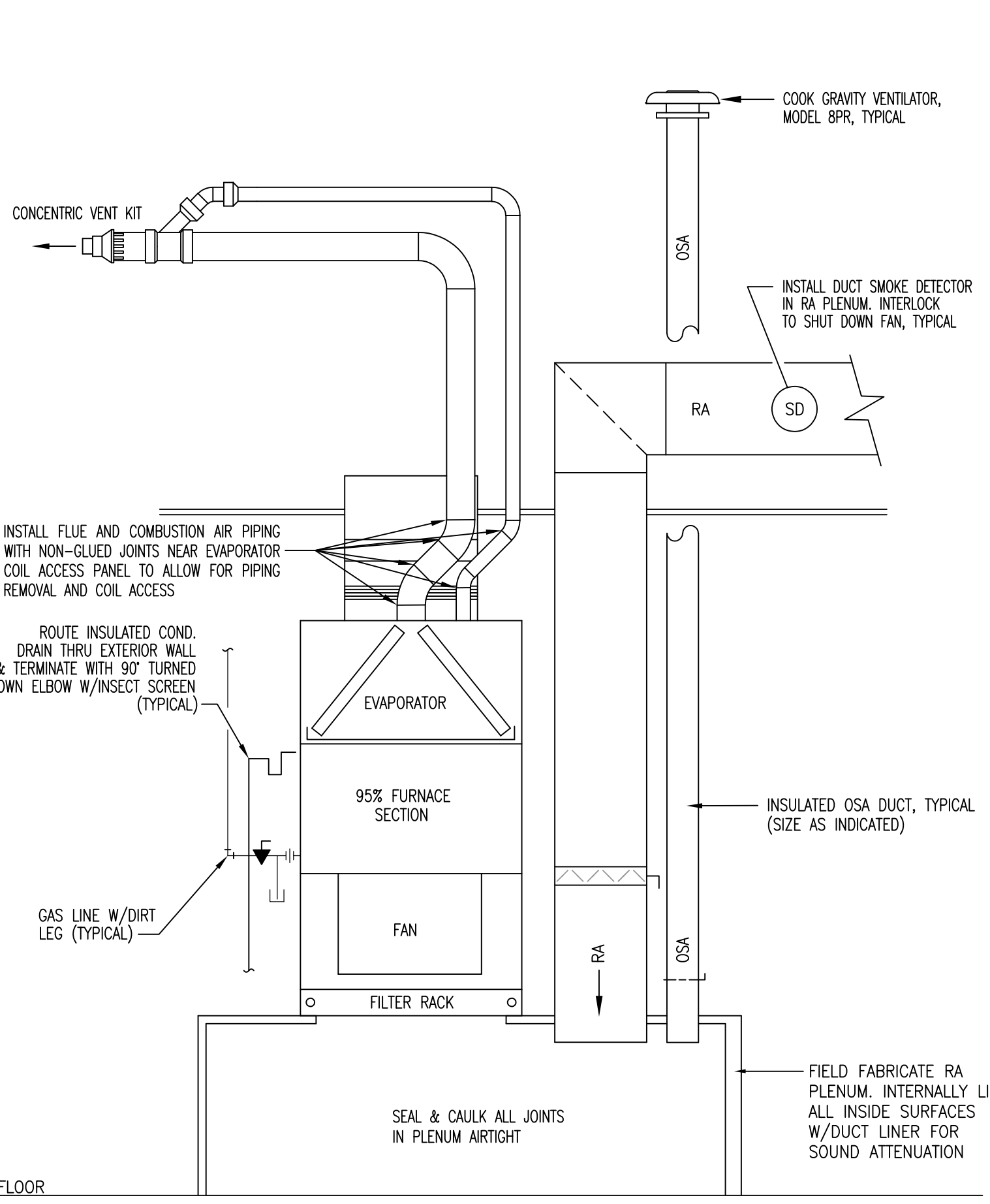
6 RECTANGULAR FLEXIBLE CONNECTION  
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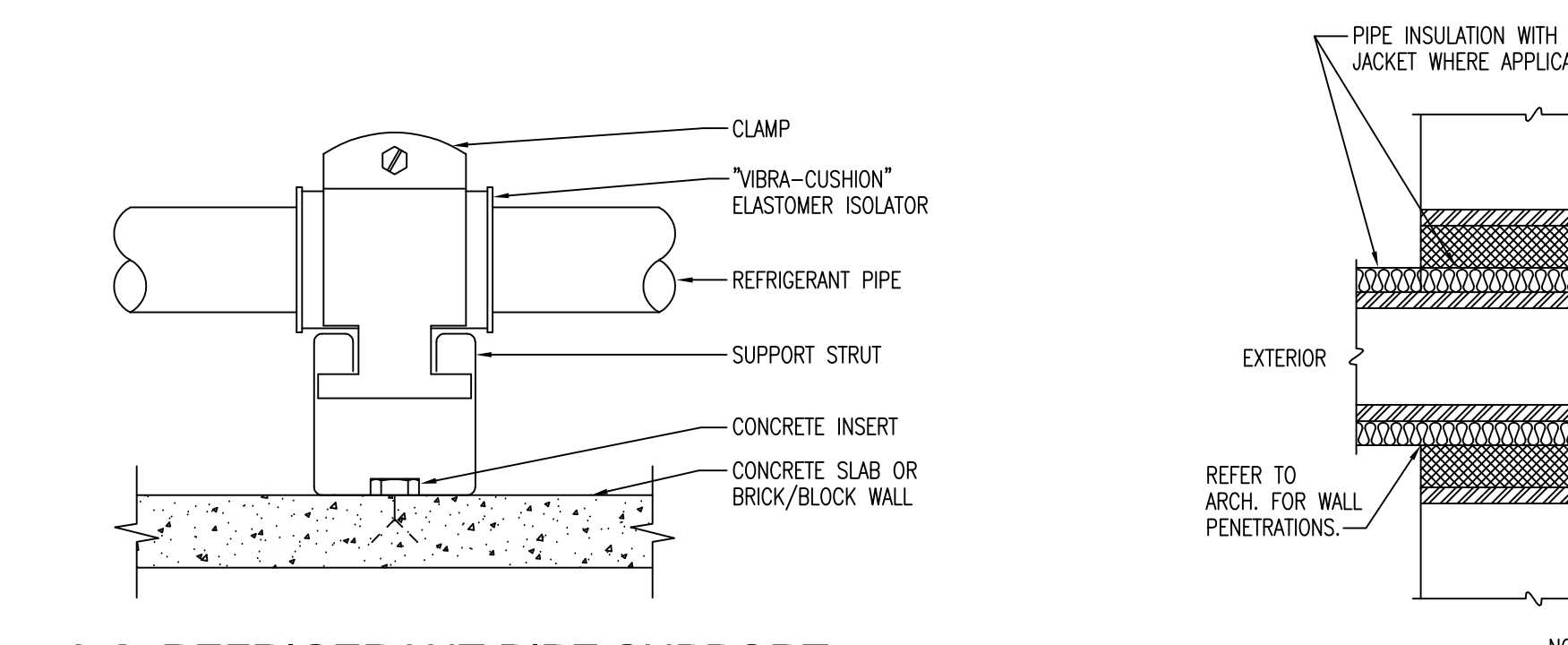
8 EXTERIOR DUCTWORK W/INSULATION  
SCALE NTS



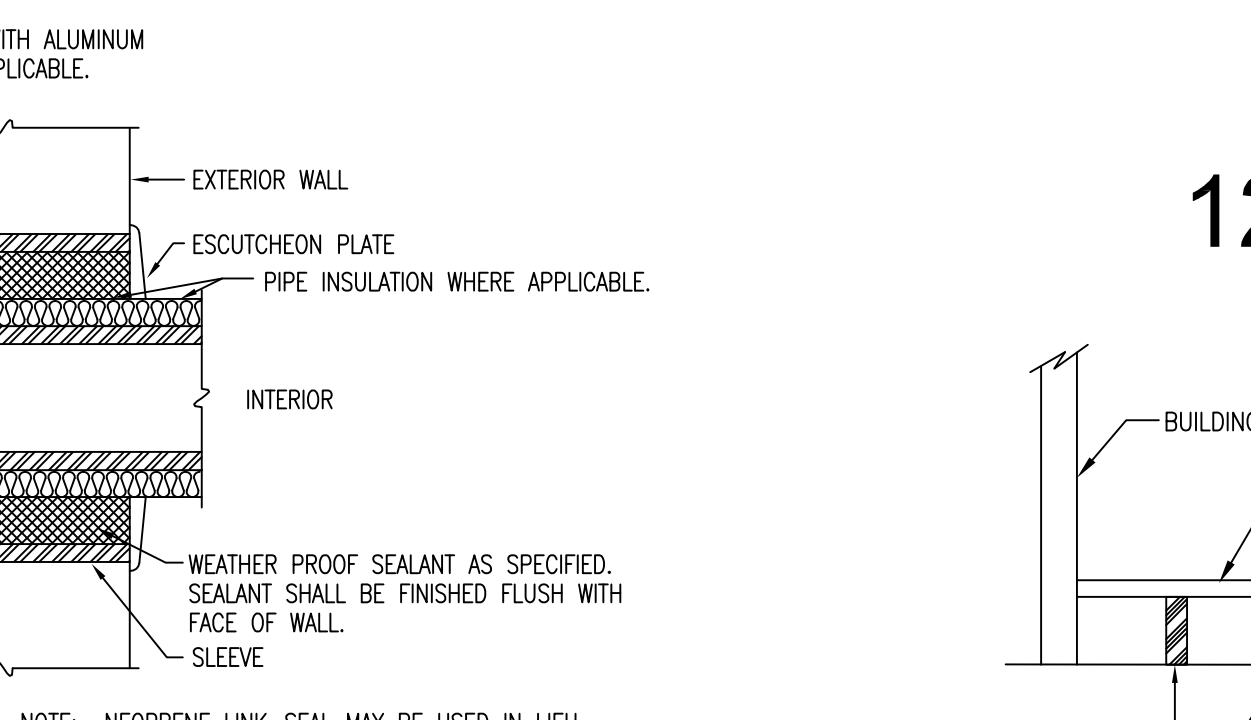
7 CONDENSING UNIT CONCRETE PAD DETAIL  
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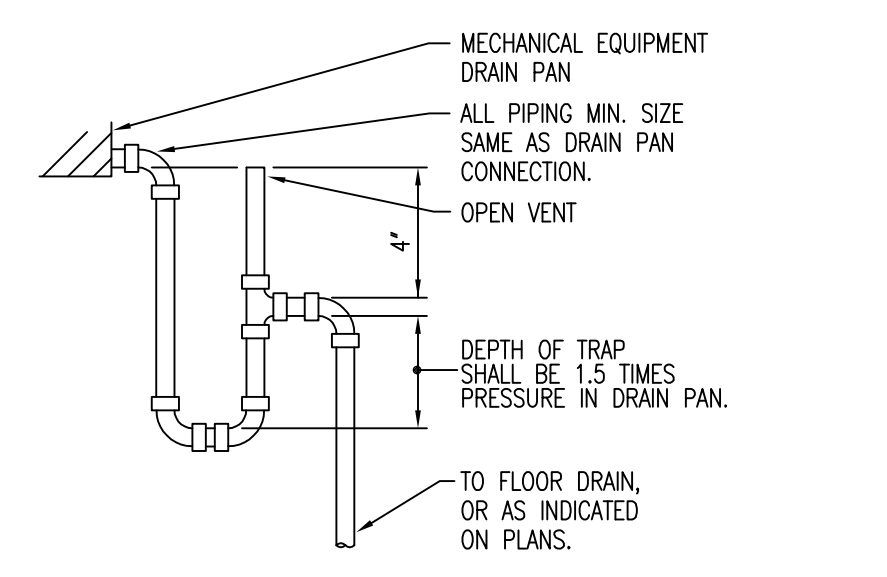
9 FURNACE INSTALLATION DETAIL  
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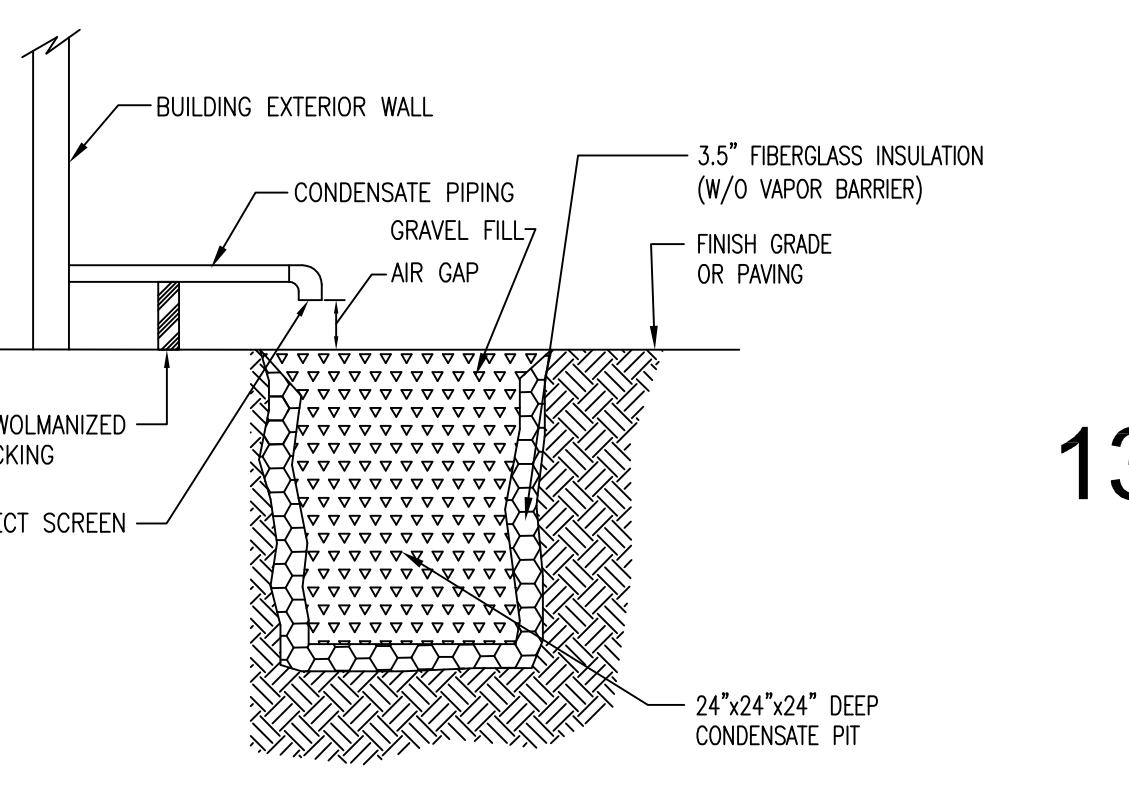
10 REFRIGERANT PIPE SUPPORT  
SCALE NTS



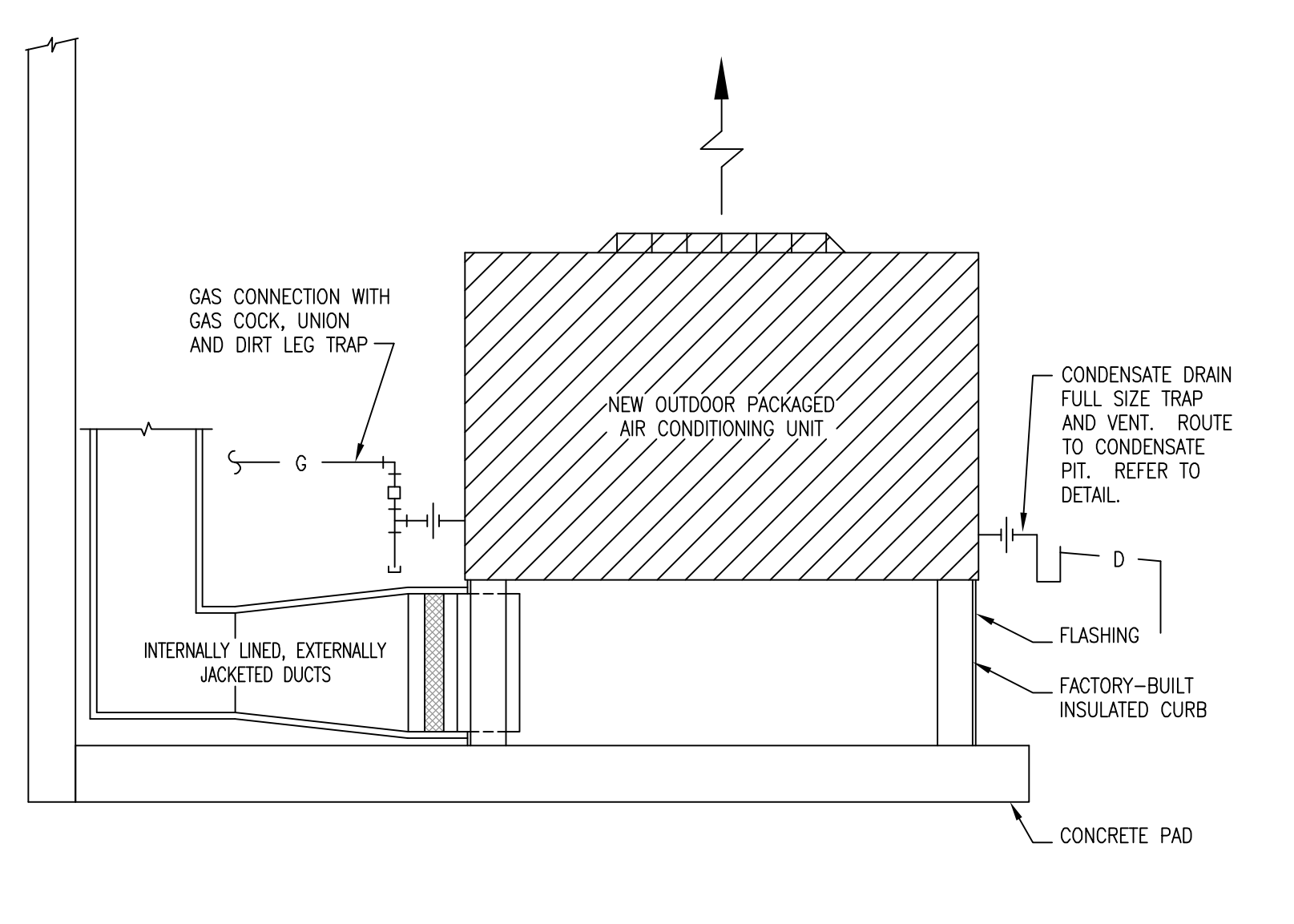
11 REFRIGERANT PIPE SLEEVE THRU EXTERIOR WALL  
SCALE NTS



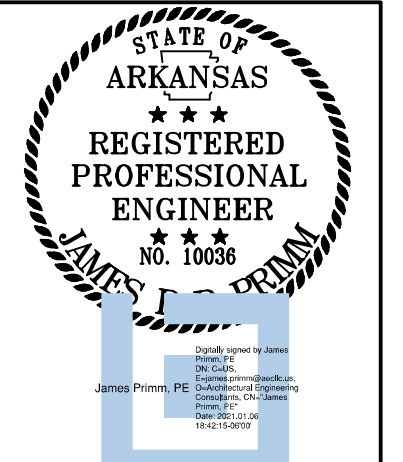
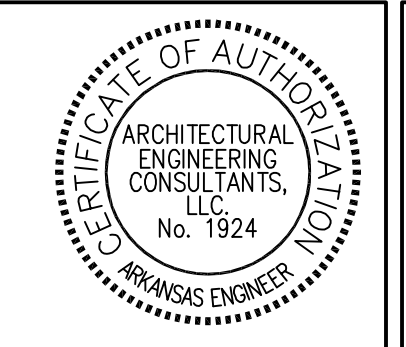
12 CONDENSATE DRAIN TRAP DETAIL  
SCALE NTS



12 CONDENSATE PIT DETAIL  
SCALE NTS



13 PACKAGED AIR CONDITIONING UNIT-HORIZONTAL DISCHARGE  
SCALE NTS



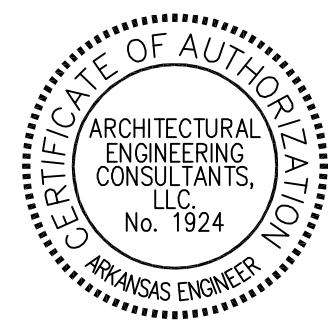
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Project Number: 1920-3809-001  
FOR HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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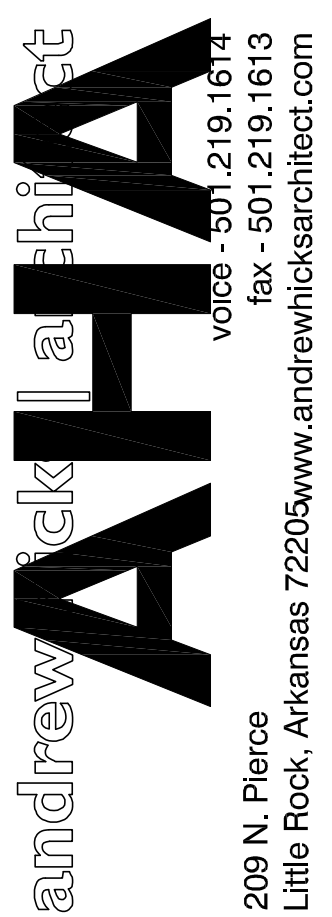
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NO.	DATE
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NO.	
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**CAFETERIA AND MULTI-PURPOSE ROOM**

Project Number: 1920-3809-001  
FOR  
HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS



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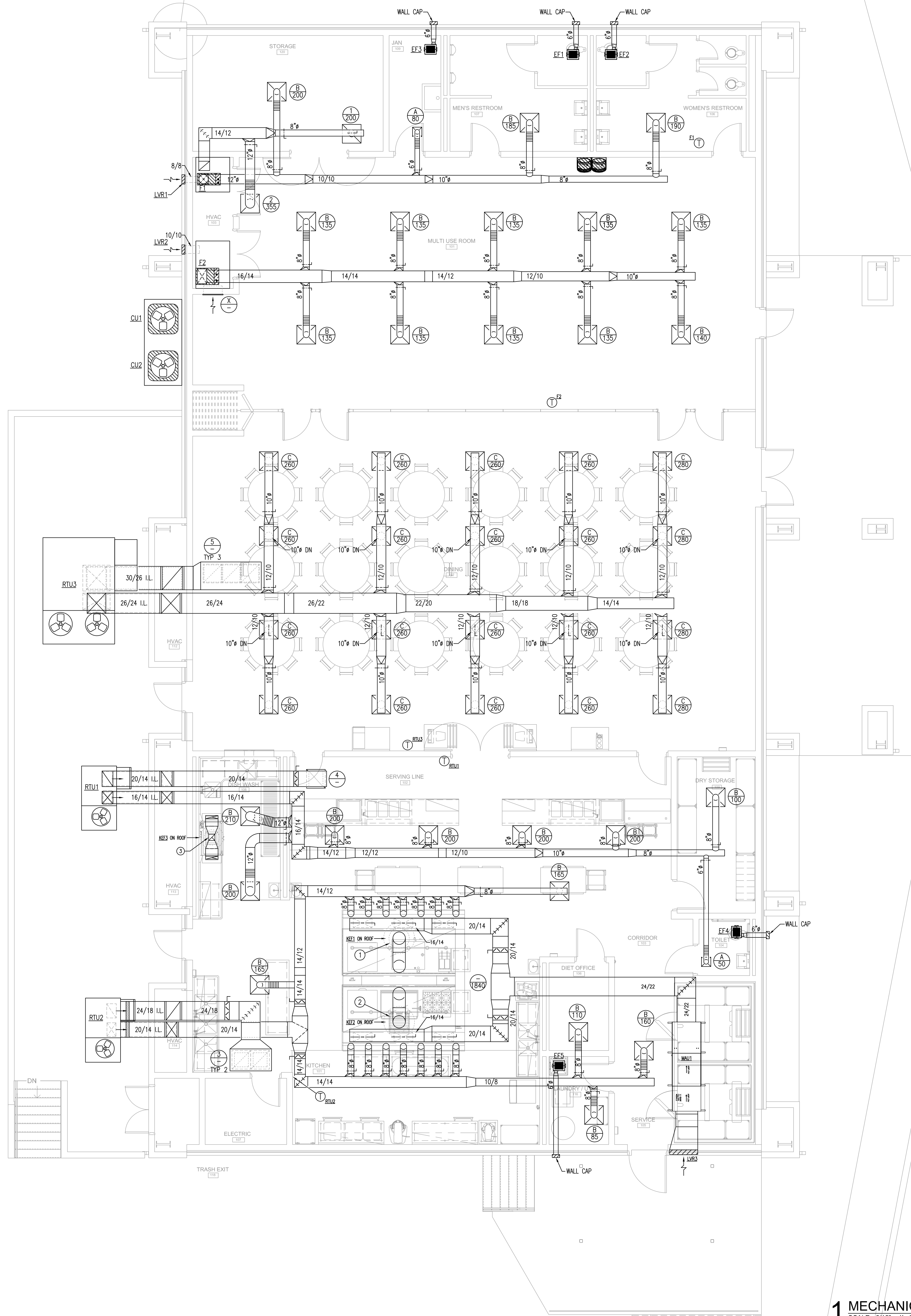
ISSUE DATE: 12-27-2020

REVISIONS

NO.	DATE

MECHANICAL PLAN

M201

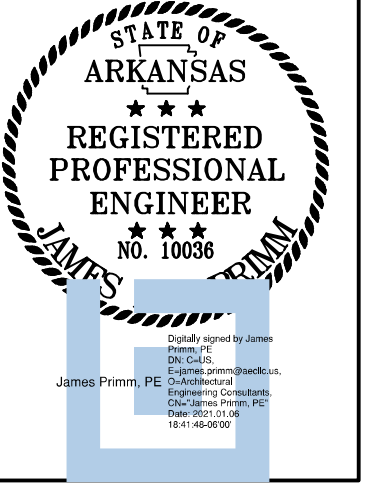
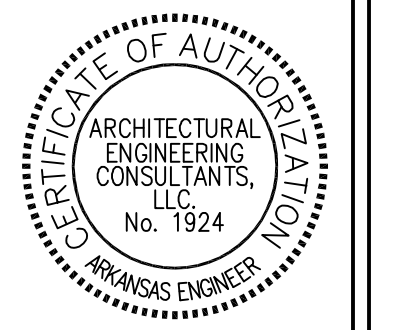


**KEYED NOTES**

- 1 EXTEND 16" WELDED, 16 GA. CARBON STEEL DUCT TO KITCHEN EXHAUST FAN, KEEP ON ROOF. INSTALL CLEANOUT AT CHANGE OF DIRECTION AS REQUIRED.
- 2 EXTEND 16" WELDED, 16 GA. CARBON STEEL DUCT TO KITCHEN EXHAUST FAN, KEEP ON ROOF. INSTALL CLEANOUT AT CHANGE OF DIRECTION AS REQUIRED.
- 3 FULL SIZE CONNECTION TO DISH HOOD EXHAUST FLANGE. PANTEG AND TRANSITION TO AN 8/8 EXHAUST DUCT UP TO DISHWASH EXHAUST FAN ON ROOF. DUCTWORK SHALL BE FULLY WELDED 304 STAINLESS STEEL DUCT.

**1 MECHANICAL PLAN**  
SCALE: 3/16" = 1'-0"





ROOFTOP AIR CONDITIONING (PKG. SYS.)														COOLING				HEATING (GAS)				ELECTRICAL DATA				REMARKS :
ID	REFERENCE PRODUCT	SUPPLY AIR FLOW RATE CFM	OUTSIDE AIR FLOW RATE CFM	EXT. STAT. PRESSURE IN. OF H <sub>2</sub> O	FILTER	RA SMOKE DETECTOR YES/NO	TOTAL CAPACITY MBH	SENSIBLE CAPACITY MBH	AIR TEMP. ED/ENB °F	AIR TEMP. LDB/LWB °F	EER MIN.	AMBIENT TEMP °F	CAPACITY MBH	INPUT MBH	AIR TEMP. LAT °F	AIR TEMP. LAL °F	VOLTS	PHASE	MCA	MOCP						
RTU1	TEMPMASTER ZYCO652B1AA224A3	1,350	160	0.8	2"	NO	41.5	28.1	74.5/62.5	55.3/51.8	15 SEER	100	90	112	65.3	126.6	208	3	19.6	30	PROVIDE ROOFCURB, FACTORY DISCONNECT, NON-POWERED GFCI CONVENIENCE OUTLET, DUAL ENTHALPY BASED ECONOMIZER WITH DEMAND CONTROL VENTILATION AND CO <sub>2</sub> SENSOR, 7-DAY PROGRAMMABLE THERMOSTAT, BAROMETRIC RELIEF DAMPER, AND CONDENSER HAIL GUARDS.					
RTU2	TEMPMASTER ZYCO652B1AA224A3	2,195	200	0.8	2"	YES	64.5	49.9	74/61.8	53/51.4	15.2 SEER	100	90	112	66.9	104.9	208	3	29.2	45	PROVIDE ROOFCURB, FACTORY DISCONNECT, NON-POWERED GFCI CONVENIENCE OUTLET, DUAL ENTHALPY BASED ECONOMIZER WITH DEMAND CONTROL VENTILATION AND CO <sub>2</sub> SENSOR, 7-DAY PROGRAMMABLE THERMOSTAT, BAROMETRIC RELIEF DAMPER, AND CONDENSER HAIL GUARDS.					
RTU3	TEMPMASTER ZWT18N3022DAE128A3	5,285	1575	0.8	2"	YES	194.1	133.9	78.4/65.7	54.9/53.6	12.1	100	240	300	55	97.1	208	3	83.5	90	PROVIDE ROOFCURB, FACTORY DISCONNECT, NON-POWERED GFCI CONVENIENCE OUTLET, DUAL ENTHALPY BASED ECONOMIZER WITH DEMAND CONTROL VENTILATION AND CO <sub>2</sub> SENSOR, 7-DAY PROGRAMMABLE THERMOSTAT, BAROMETRIC RELIEF DAMPER, CONDENSER HAIL GUARDS, AND GLOBAL PLASMA SOLUTIONS MODEL GPS-DM48-AC BIPOLAR IONIZATION UNIT.					

### EXHAUST FANS

ID	REFERENCE PRODUCT	LOCATION	SERVES	TYPE	DRIVE	AIR FLOW RATE CFM	SOUND SONES	TOT. STAT. PRESSURE IN. OF H <sub>2</sub> O	ROTATION REV./MIN.	MOTOR HP	POWER WHP	ELECTRICAL DATA VOLTS / PHASE	REMARKS :
EF1, EF2	COOK GC-188	CEILING	KITCHEN RR	CENTR	DIRECT	225	5.5	.25	1354	102w	102w	115 1	PROVIDE WITH DISCONNECT, FACTORY MOUNTED FAN SPEED CONTROLLER, BACKDRAFT DAMPER, RUBBER-IN-SHEAR ISOLATION HANGERS, INTERLOCK WITH LIGHTS.
EF3, EF5	COOK GC-148	CEILING	KITCHEN RR	CENTR	DIRECT	110	2.0	.25	946	40.1w	41w	115 1	PROVIDE WITH DISCONNECT, FACTORY MOUNTED FAN SPEED CONTROLLER, BACKDRAFT DAMPER, RUBBER-IN-SHEAR ISOLATION HANGERS, INTERLOCK WITH LIGHTS.
EF4	COOK GC-148	CEILING	KITCHEN RR	CENTR	DIRECT	75	0.9	.25	756	31.3w	32w	115 1	PROVIDE WITH DISCONNECT, FACTORY MOUNTED FAN SPEED CONTROLLER, BACKDRAFT DAMPER, RUBBER-IN-SHEAR ISOLATION HANGERS, INTERLOCK WITH LIGHTS.

### FURNACE

ID	REFERENCE PRODUCT	ENERGY INPUT MBH	HEATING CAPACITY MBH	AIR FLOW RATE CFM	EXT. STAT. PRESSURE IN. OF H <sub>2</sub> O	AIR TEMP. ED/ENB °F	FILTER	FUEL	SEER	FAN MOTOR DATA				ELECTRICAL DATA VOLTS / PHASE	REMARKS :
										WHP	HP	DKC	SDS		
F1	FRASER-JOHNSTON TMSFC08020MP12	40	38	655	0.5	63.2/117	1"	NAT GAS	17.5	1.0	VAR/BL	DIRECT	VAR.	115/1/10.4/15	PROVIDE DISCONNECT, CONCENTRIC VENT KIT, 7-DAY PROGRAMMABLE THERMOSTAT, HINGED FILTER RACK, GLOBAL PLASMA SOLUTIONS MODEL GPS-FC24-AC, AND HEAT TRACING FOR CONDENSATE PIPING.
F2	FRASER-JOHNSTON TMSFC08020MP12	80	76	1,355	0.5	61.4/113	1"	NAT GAS	16	1.0	VAR/BL	DIRECT	VAR.	115/1/17/20	PROVIDE DISCONNECT, CONCENTRIC VENT KIT, 7-DAY PROGRAMMABLE THERMOSTAT, HINGED FILTER RACK, GLOBAL PLASMA SOLUTIONS MODEL GPS-FC24-AC, AND HEAT TRACING FOR CONDENSATE PIPING.

### AIR COOLED CONDENSING UNITS AND DX COILS

ID	REFERENCE PRODUCT	CONDENSING UNIT MODEL	COIL MODEL	COOL. CAP. (MBH)	EVAPORATOR DATA				CONDENSING UNIT DATA				REMARKS
				TOTAL	SENSIBLE	SA CFM	USA CFM	EDB/LWB	LDB/LWB	AMBIENT °F	VOLTS/PHASE/MOCP/SEER		
CU1	FRASER-JOHNSTON	CM2448BA1	TC7B1821S	16.5	11.5	655	100	76.2/64.5	59.6/55.6	100'	208V/1A/14/20/17	PROVIDE DISCONNECT, LOUVERED HAIL GUARDS, 4" CONCRETE PAD, SHROUDER SERVICE VALVES, LOW PRESSURE SWITCH KIT, COMPRESSOR START KIT, 5 MINUTE TIME DELAY.	
CU2	FRASER-JOHNSTON	CM4808BA1	TC17B4821S	44.3	32.3	1,355	250	75.7/63.5	57.7/54.8	100'	208V/1A/28.2/45/16	PROVIDE DISCONNECT, LOUVERED HAIL GUARDS, 4" CONCRETE PAD, SHROUDER SERVICE VALVES, LOW PRESSURE SWITCH KIT, COMPRESSOR START KIT, 5 MINUTE TIME DELAY.	

### OUTSIDE AIR LOUVER SCHEDULE

DESIGNATION	REFERENCE PRODUCT	TYPE	SERVES	MAXIMUM AIRFLOW (CFM)	SIZE WxHxD (INCHES)	REMARKS
LVR1-LVR2	SUNENT MODEL FL157	FIXED BLADE	VENTILATION AIR	250	16x6x4	EXTRUDED ALUMINUM LOUVER WITH MANUAL VOLUME BALANCING DAMPER INCLUDING THROUGH THE FACE DAMPER OPERATION, AND INSECT SCREEN. CLEAR ANODIZE FINISH.

1. ACCEPTABLE MANUFACTURERS: RUSKIN, GREENHECK, POTTORFF, OR AMERICAN WARMING.

### AIR DEVICES SCHEDULE

DESIGNATION	MANUFACTURE/ MODEL NO.	MAX CFM	USE	TYPE	STYLE	NECK	FACE SIZE	MAX. APFD INCHES	MAX N.C.	MATERIAL	FINISH	OBDD YES/NO	REMARKS
A	TITUS OMNI-AA	90	SUPPLY	LAY-IN	LOUVERED	6"φ	12/12	0.12	28	ALUM.	WHITE	Y	PROVIDE FULL SIZE LOUVER FACE
B	TITUS OMNI-AA	200	SUPPLY	LAY-IN	LOUVERED	8"φ	24/24	0.12	28	ALUM.	WHITE	Y	PROVIDE FULL SIZE LOUVER FACE
C	TITUS OMNI-AA	350	SUPPLY	LAY-IN	LOUVERED	10"φ	24/24	0.13	30	ALUM.	WHITE	N	PROVIDE FULL SIZE LOUVER FACE
1	TITUS 50 F	280	RETURN	LAY-IN	EGGGRATE	10"φ OR 10x10	24/24	0.12	30	ALUM.	WHITE	N	1/2x1/2x1/2 ALUMINUM CORE
2	TITUS 50 F	360	RETURN	LAY-IN	EGGGRATE	12"φ OR 12x12	24/24	0.12	30	ALUM.	WHITE	N	1/2x1/2x1/2 ALUMINUM CORE
3	50 F	1100	RETURN	LAY-IN	EGGGRATE	18x18	24x24	0.12	24	ALUM.	WHITE	N	1/2x1/2x1/2 ALUMINUM CORE
4	50 F	1400	RETURN	LAY-IN	EGGGRATE	20x20	24x24	0.12	24	ALUM.	WHITE	N	1/2x1/2x1/2 ALUMINUM CORE
5	50 F	1800	RETURN	LAY-IN	EGGGRATE	22x22	24x24	0.12	24	ALUM.	WHITE	N	1/2x1/2x1/2 ALUMINUM CORE

- NOTES: 1. ACCEPTABLE MANUFACTURERS: TITUS, TUTTLE & BAILEY, METALARE & PRICE.  
 2. ALL CEILING DIFFUSERS SHALL BE 4-WAY THROW UNLESS INDICATED OTHERWISE.  
 3. GRILLES NECK SIZE SHALL BE SAME AS BRANCH DUCT SHOWN ON DRAWINGS UNLESS INDICATED OTHERWISE. PROVIDE ADAPTERS WHERE REQUIRED.  
 4. COORDINATE WITH ARCHITECTURAL ROOM FINISH SCHEDULES FOR DEVICE FRAMING REQUIREMENTS.  
 5. PROVIDE OPPOSED BLADE DAMPERS AT ALL BRANCH TAKE-OFFS EVEN IF OBDD'S ARE INDICATED FOR AIR DEVICES.  
 6. PROVIDE FIRE DAMPERS WITH AIR DEVICES WHERE FIRE DAMPERS ARE SHOWN IN CONJUNCTION WITH DEVICES ON PLANS.  
 7. PROVIDE FACTORY FABRICATED, MOLDED INSULATION BLANKETS ON ALL SUPPLY DIFFUSERS. FIELD INSTALLED INSULATION ON THE BACKS OF GRILLES IS UNACCEPTABLE.

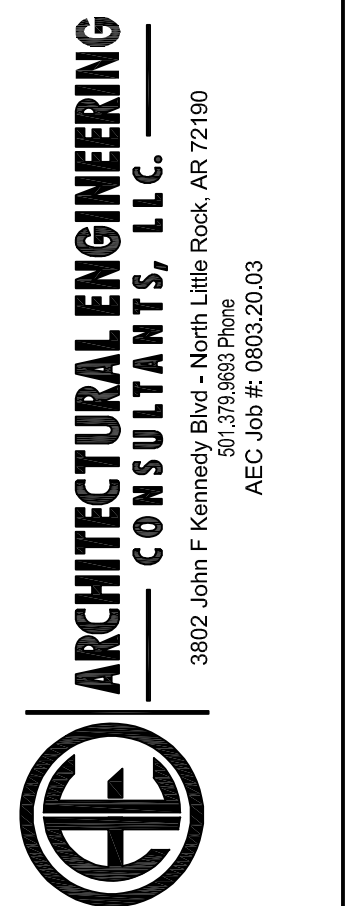
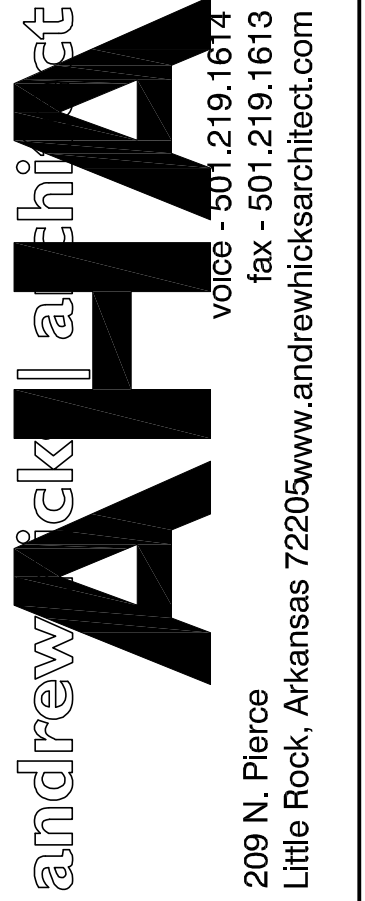
### MAKE-UP AIR UNIT LOUVER SCHEDULE

DESIGNATION	REFERENCE PRODUCT	TYPE	MAXIMUM AIRFLOW (CFM)	PRESSURE DROP (IN. WATER)	MINIMUM FREE AREA (SQ. FT.)	SIZE W x H x D (INCHES)	REMARKS
LVR3	POTTORFF EXA-645	DRAINABLE BLADE	4,760	0.077	5.7	36 x 54 x 6	PROVIDE ALUMINUM COMBINATION LOUVER WITH STATIONARY DRAINABLE BLADES AND INTEGRAL AIRFOIL BLADE CONTROL DAMPER. COLOR BY ARCHITECT.

1. ACCEPTABLE MANUFACTURERS: RUSKIN, POTTORFF, GREENHECK, OR APPROVED EQUAL.  
 2. ALL LOUVERS SHALL BE OF ALUMINUM CONSTRUCTION.

CAFETERIA AND MULTI-PURPOSE ROOM

Project Number: 1920-3809-001  
 FOR HILLCREST SCHOOL DISTRICT  
 HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS



ISSUE DATE:	12-27-2020
REVISIONS	
NO.	DATE

M301



**HOOD INFORMATION - Job#4306598**

HOOD NO.	TAG	MODEL	LENGTH	MAX. COOKING TEMP.	TYPE	APPLIANCE DUTY	DESIGN CFM/ft	TOTAL EXH. CFM	EXHAUST PLENUM RISER(S)				MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD COMPONENT NUMBERS			
									WIDTH	LENG.	HEIGHT	DIA.				CFM	VEL.	S.P.	END TO END
1		6024 ND-2-ACPSP-F	12' 0"	450 Deg.	I	Medium	200	2400		4'	16'	2400	1719	-0.797"	1920	756	430 SS Where Exposed	ALONE	BACK
2		6024 ND-2-ACPSP-F	12' 0"	450 Deg.	I	Medium	200	2400		4'	16'	2400	1719	-0.797"	1920	756	430 SS Where Exposed	ALONE	BACK

**HOOD INFORMATION**

HOOD NO.	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WGT		
		TYPE	QTY.	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY.	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM	SIZE			ELECTRICAL	SWITCHES
1		Captrate Solo Filter	9	20"	16"	85% See Filter Spec.	6	Recessed	NO	Right	12"x60"x24"	Ansul R102	3.0/3.0/3.0	DCV-2111	1 Light 1 Fan	YES	1182 LBS
2		Captrate Solo Filter	9	20"	16"	85% See Filter Spec.	6	Recessed	NO	Left	12"x60"x24"					YES	1032 LBS

**PERFORATED SUPPLY PLENUM(S)**

HOOD NO.	TAG	POS.	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S)			
							WIDTH	LENG.	DIA.	CFM
1	Front	157'	24'	6'	MUA	12"	24"		640	0.183'
					MUA	12"	24"		640	0.183'
					MUA	12"	24"		640	0.183'
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
2	Front	157'	24'	6'	MUA	12"	24"		640	0.183'
					MUA	12"	24"		640	0.183'
					MUA	12"	24"		640	0.183'
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	
					AC		8"	108	0.037"	

**HOOD OPTIONS**

HOOD NO.	TAG	OPTION
1		FIELD WRAPPER 18.00' High Front, Left, Right
		LEFT END STANDOFF (FINISHED) 1' Wide 60' Long Insulated
		BACK STANDOFF (FLAT) 12' Wide 157' Long
		INSULATION FOR TOP OF HOOD
2		FIELD WRAPPER 18.00' High Front, Left, Right
		RIGHT END STANDOFF (FINISHED) 1' Wide 60' Long Insulated
		INSULATION FOR TOP OF HOOD
		INSULATION FOR BACK OF HOOD

**PATENT NUMBERS**

AC-PSP (United States) - US Patent 7963830 B2  
 AC-PSP Wall (Canada) - CA Patent 2820509  
 AC-PSP Island (Canada) - CA Patent 2520330

**SPECIFICATION: CAPTRATE GREASE-STOP SOLID FILTER**

THE CAPTRATE GREASE-STOP SOLID FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-Baffle DESIGN IN CONJUNCTION WITH A SLOTTED REAR Baffle DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

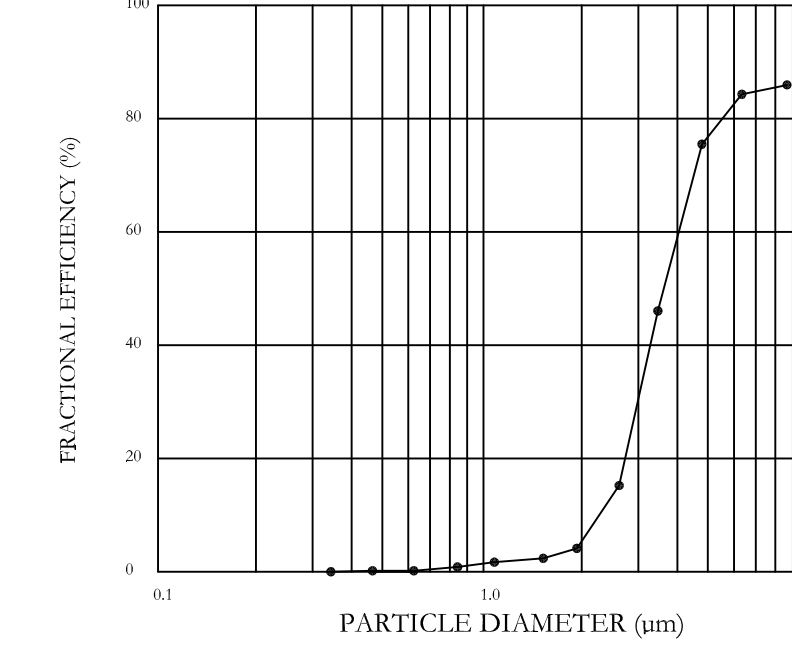
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

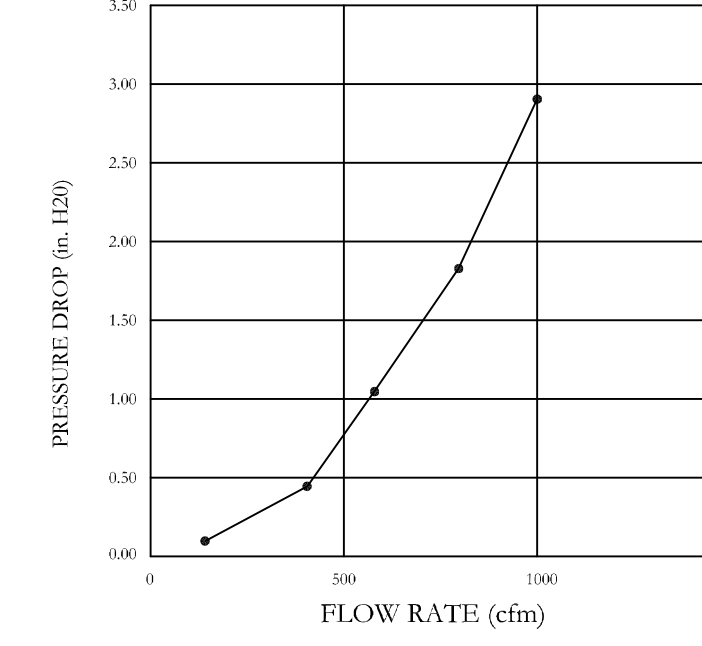
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLID WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

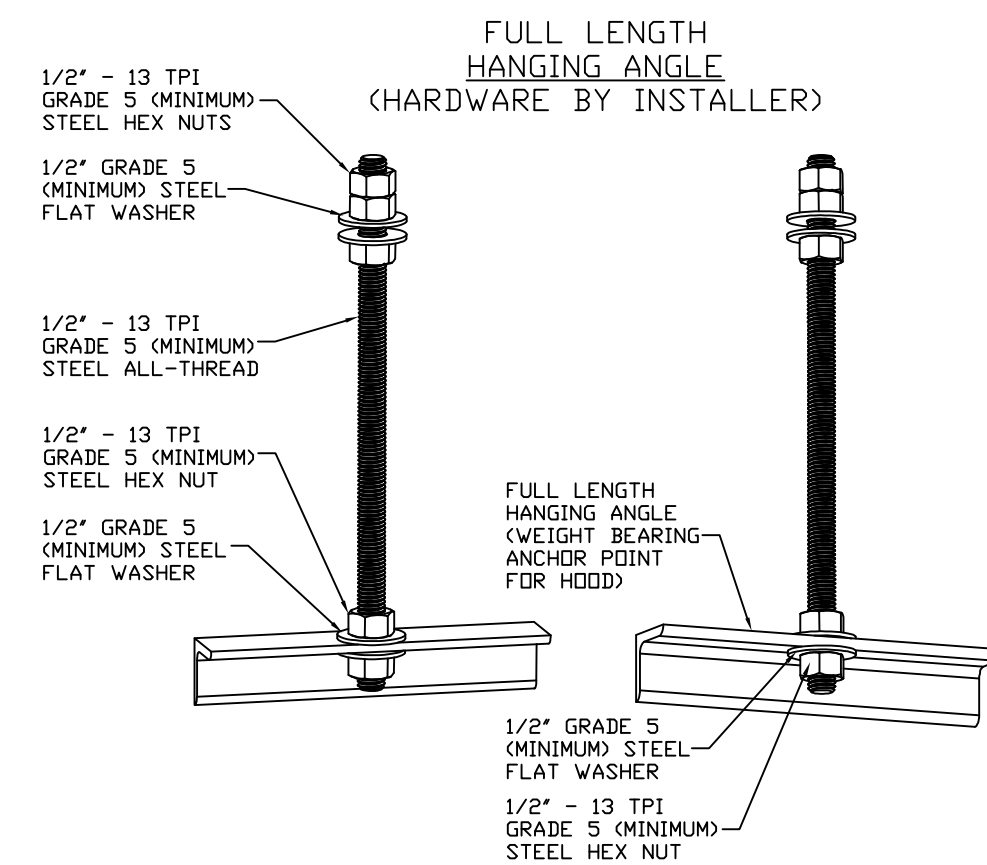
EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE

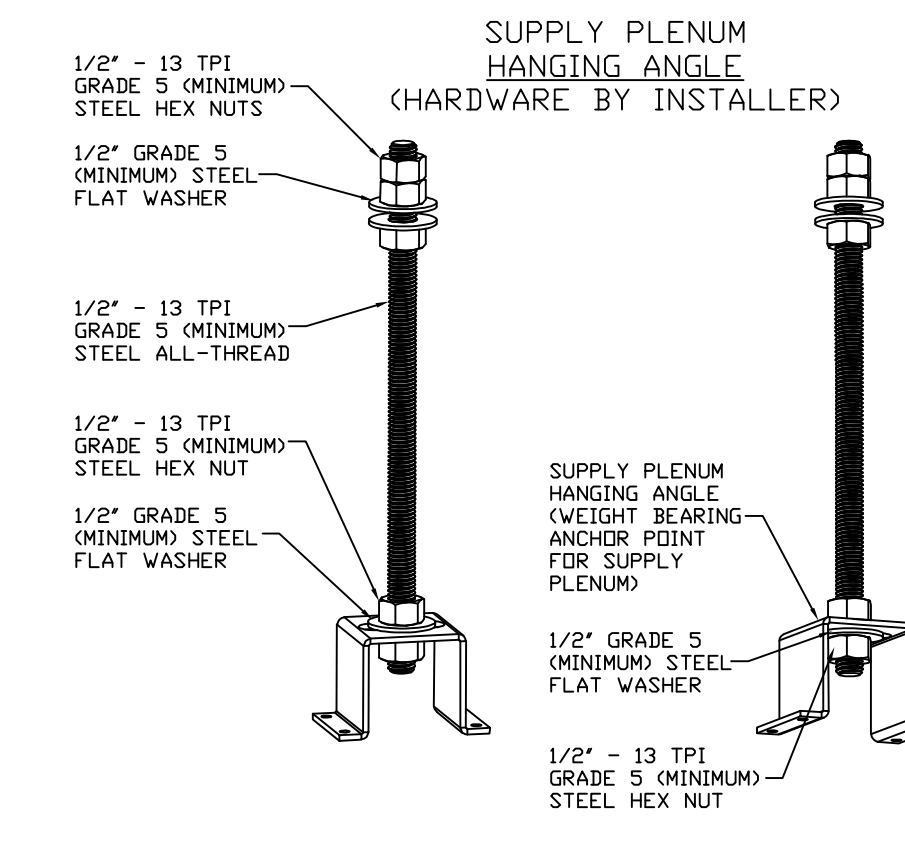


CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:  
 NFPA #96  
 NSF STANDARD #2  
 UL STANDARD #1046  
 INT. MECH. CODE (IMC)  
 ULC-S649



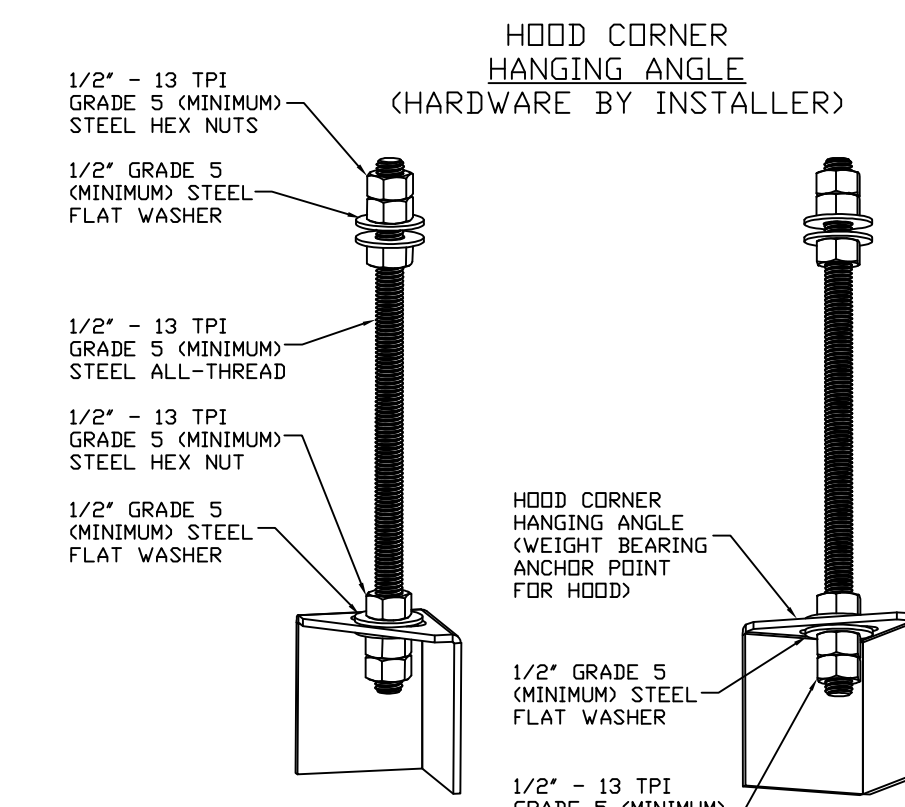
**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



**ASSEMBLY INSTRUCTIONS**

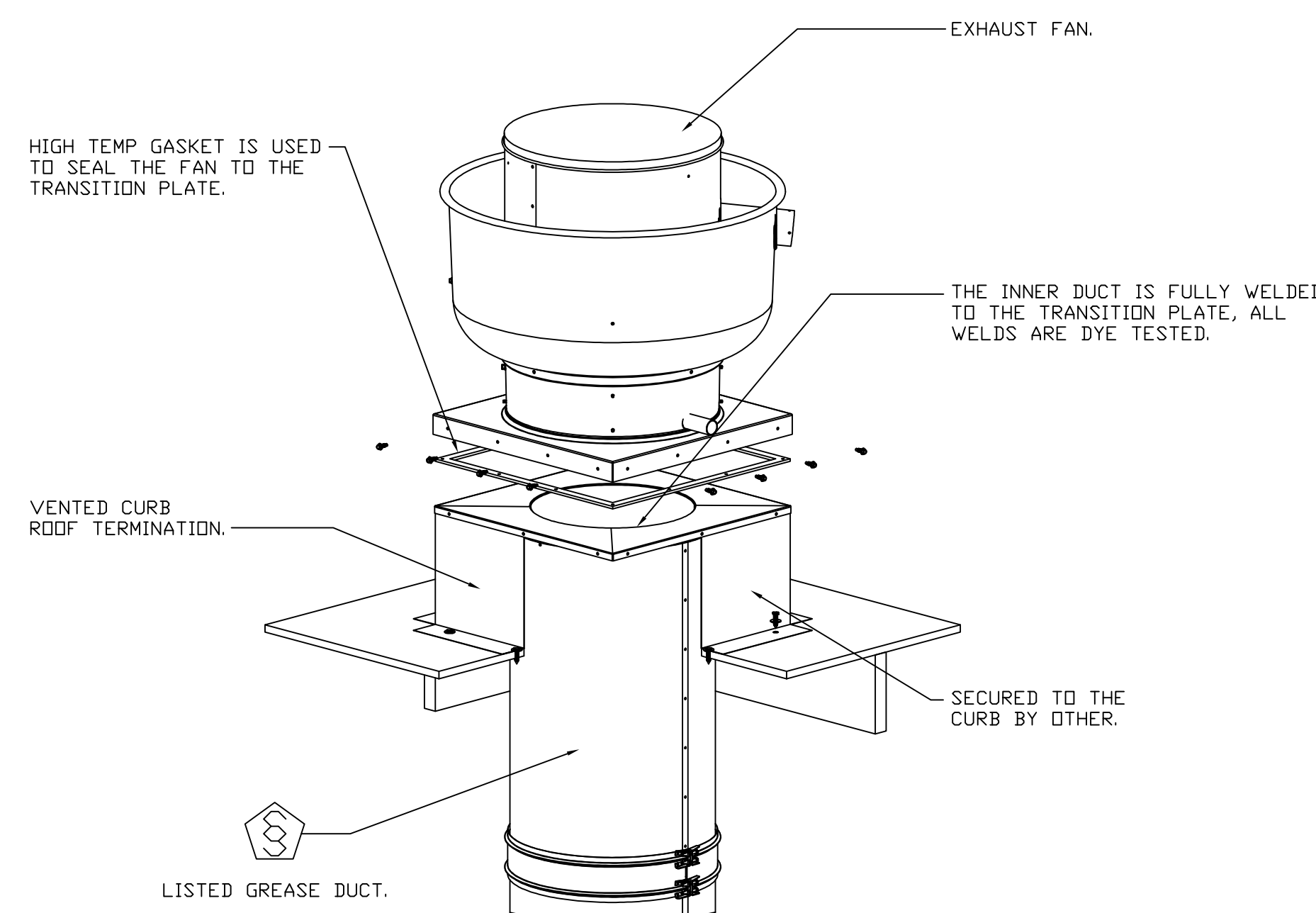
HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR PSP HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



**ASSEMBLY INSTRUCTIONS**

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

**GREASE DUCT & CHIMNEY SPECIFICATIONS:**  
 PROVIDE GREASE DUCT EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW" ROUND 20 GAUGE 430 STAINLESS STEEL DUCTWORK. MODEL "DW" IS LISTED TO UL-1978 AND IS INSTALLED USING "V" CLAMP LOCKING CONNECTIONS SEALED WITH 3M FIRE BARRIER 2000 PLUS. MODEL "DW" DOES NOT REQUIRE WELDING PROVIDING IT HAS BEEN INSTALLED PER THE MANUFACTURERS INSTALLATION GUIDE.  
 PROVIDE RATED ACCESS DOORS AT EVERY CHANGE IN DIRECTION AND EVERY 12' ON CENTER. PER MANUFACTURERS LISTING MODEL "DW" HORIZONTAL RUNS LESS THAN 75 FT. CAN BE SLOPED 1/16" PER 12", HORIZONTAL RUNS MORE THAN 75 FT. CAN BE SLOPED 3/16" PER 12". DUCT SHOULD BE SLOPED AS MUCH AS POSSIBLE TO REDUCE THE CHANCE OF GREASE ACCUMULATION IN HORIZONTAL RUNS.  
 IF THE DUCT OR CHIMNEY IS WITHIN 18 INCHES OF COMBUSTIBLE MATERIAL, PROVIDE UL-2221 OR UL-103 HT LISTED DOUBLE WALL GREASE DUCT OR DOUBLE WALL CHIMNEY EQUAL TO CAPTIVEAIRE SYSTEMS MODEL "DW"- 2R, 2R TYPE HT, 3R, OR 3Z" ROUND 20 GAUGE 430 STAINLESS INNER DUCT INSULATED WITH A 24 GAUGE 430 STAINLESS OUTER SHELL.

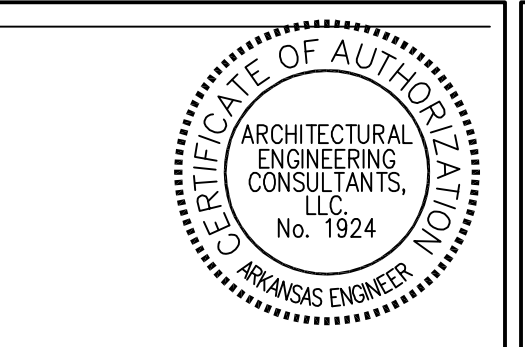


**System Design Verification (SDV)**

If ordered, CAS Service will perform a System Design Verification (SDV) once all equipment has had a complete start up per the Operation and Installation Manual. Typically, the SDV will be performed after all inspections are complete.

Any field related discrepancies that are discovered during the SDV will be brought to the attention of the general contractor and corresponding trades on site. These issues will be documented and forwarded to the appropriate sales office. If CAS Service has to resolve a discrepancy that is a field issue, the general contractor will be notified and billed for the work. Should a return trip be required due to any field related discrepancy that cannot be resolved during the SDV, there will be additional trip charges.

During the SDV, CAS Service will address any discrepancy that is the fault of the manufacturer. Should a return trip be required, the general contractor and appropriate sales office will be notified. There will be no additional charges for manufacturer discrepancies.



**REVISIONS**

NO.	DESCRIPTION	DATE:

**CAPTIVEAIRE**  
 Tulsa Office  
 12101 East 51st Street, Suite 101A, Tulsa, OK 74146  
 PHONE: (918) 258-0291 FAX: (918) 227-5947 EMAIL: reg80@captiveaire.com  
 Project Number: 1920-3809-001  
 FOR HILLCREST SCHOOL DISTRICT  
 HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

STRAWBERRY SCHOOL  
 LYNN, AR, 72440

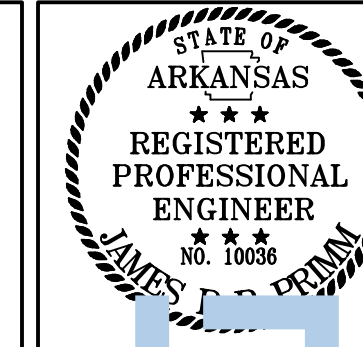
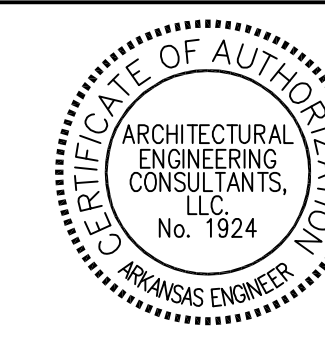
DATE: 3/25/2020  
 DWG.#: 4306598  
 DRAWN BY: CWL  
 SCALE: 3/4" = 1'-0"  
 MASTER DRAWING  
 SHEET NO. 1

**ARCHITECTURAL ENGINEERING CONSULTANTS, LLC.**  
 3902 John F Kennedy Blvd - North Little Rock, AR 72119  
 AEC JOB #: 0803.20.03

ISSUE DATE: 12-27-2020  
 REVISIONS  
 NO. DATE  
 NO.  
 NO.  
 NO.  
 NO.  
 NO.  
 NO.  
 NO.  
 NO.  
 KITCHEN HOOD DETAILS

M401



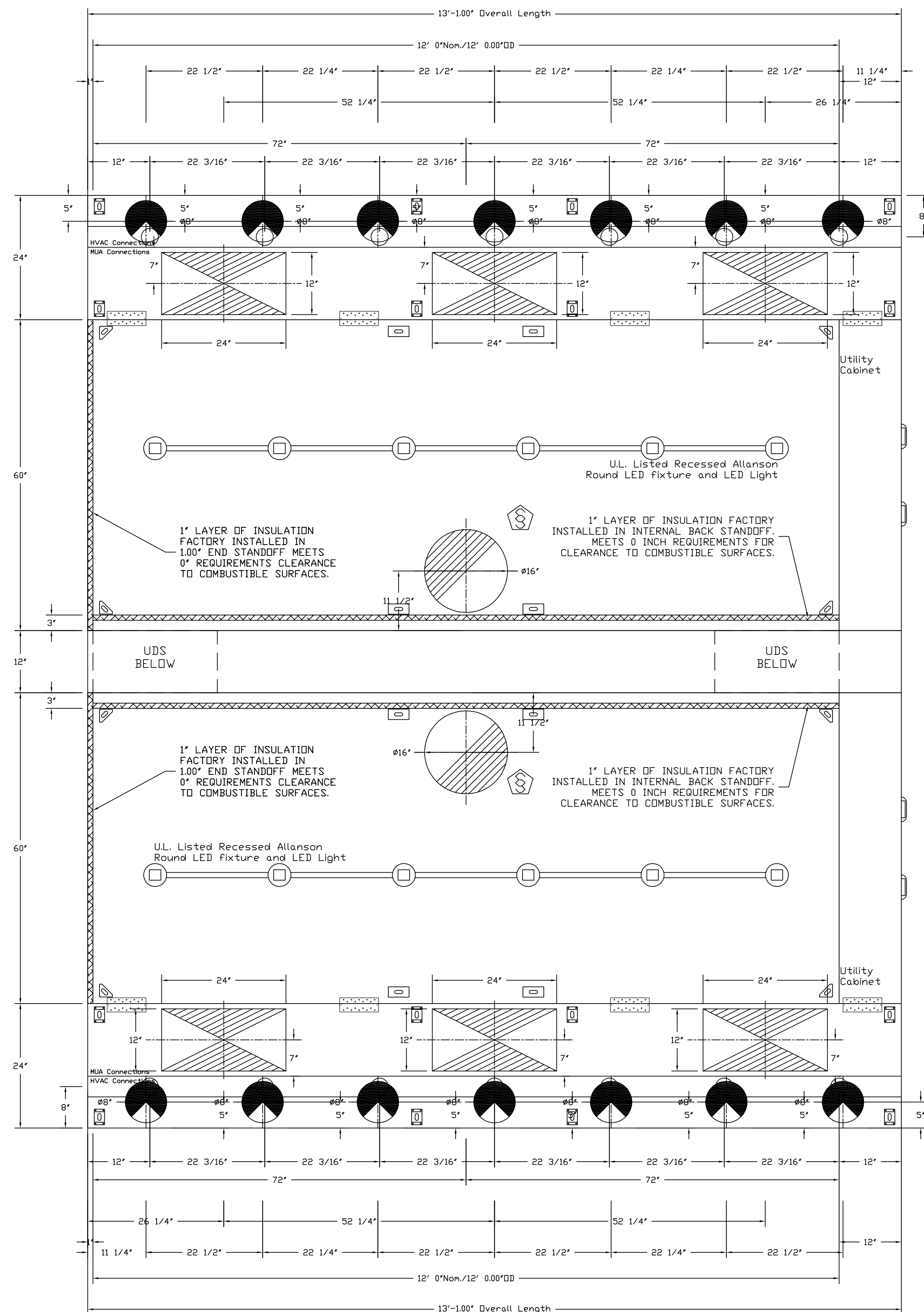


NOTE: Additional hanging angles provided for hoods 12' and longer.

PLAN VIEW - Hood #2  
12' 0.00" LONG 6024ND-2-ACPSP-F

ACPSP ships loose for field installation

LIGHTING FOR ACPSP Job # 4306598 - Hood #2  
INPUT: 120V AC, 1 Phase, 50/60Hz, 3.5 Watts per light.  
TO CONTROL LIGHTS WITH HOOD LIGHT SWITCH, WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC.  
TO CONTROL LIGHTS WITH BUILDING LIGHT SWITCH, WIRE BLACK AND WHITE WIRE TO A 120VAC SERVICE.  
END TO END ACPSPS REQUIRE 120VAC FIELD WIRING FROM J-BOX TO J-BOX. REPLACE LIGHTS WITH LED LIGHTS ONLY.



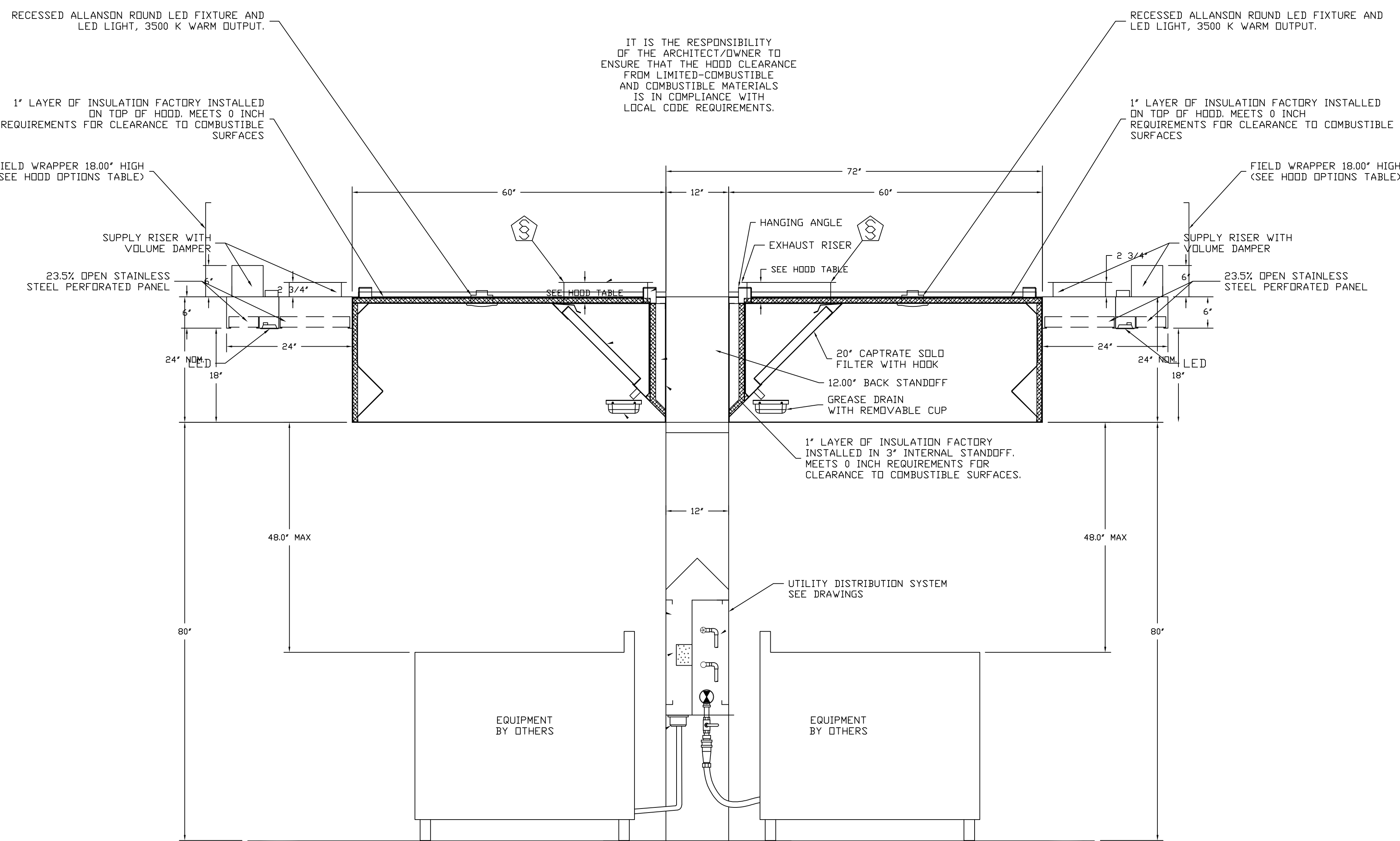
PLAN VIEW - Hood #1  
12' 0.00" LONG 6024ND-2-ACPSP-F

NOTE: Additional hanging angles provided for hoods 12' and longer.

ACPSP ships loose for field installation

LIGHTING FOR ACPSP Job # 4306598 - Hood #1  
INPUT: 120V AC, 1 Phase, 50/60Hz, 3.5 Watts per light.  
TO CONTROL LIGHTS WITH HOOD LIGHT SWITCH, WIRE PER HOOD ELECTRICAL CONTROL PANEL SCHEMATIC.  
TO CONTROL LIGHTS WITH BUILDING LIGHT SWITCH, WIRE BLACK AND WHITE WIRE TO A 120VAC SERVICE.  
END TO END ACPSPS REQUIRE 120VAC FIELD WIRING FROM J-BOX TO J-BOX. REPLACE LIGHTS WITH LED LIGHTS ONLY.

DO NOT INSTALL  
HVAC RETURNS   
OR 4-WAY DIFFUSERS   
WITHIN TEN (10) FEET OF HOOD



SECTION VIEW - MODEL 6024ND-2-ACPSP-F  
HOOD - #2

SECTION VIEW - MODEL 6024ND-2-ACPSP-F  
HOOD - #1

REVISIONS

NO.	DESCRIPTION	DATE



**CAPTIVE**  
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12101 East 51st Street, Suite 101A, Tulsa, OK, 74146  
PHONE: (918) 258-0291 FAX: (918) 227-5947 EMAIL: reg80@captivevaire.com

STRAWBERRY SCHOOL  
LYNN, AR, 72440

DATE: 3/25/2020  
DWG.#: 4306598  
DRAWN BY: CWL  
SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 2

CAFETERIA AND MULTI-PURPOSE ROOM  
Project Number: 1920-3809-001  
FOR HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

andrew Wick at Ahha  
**AHHA**  
ARCHITECTURAL ENGINEERING CONSULTANTS, LLC  
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AEC Job #: 0803.20.03  
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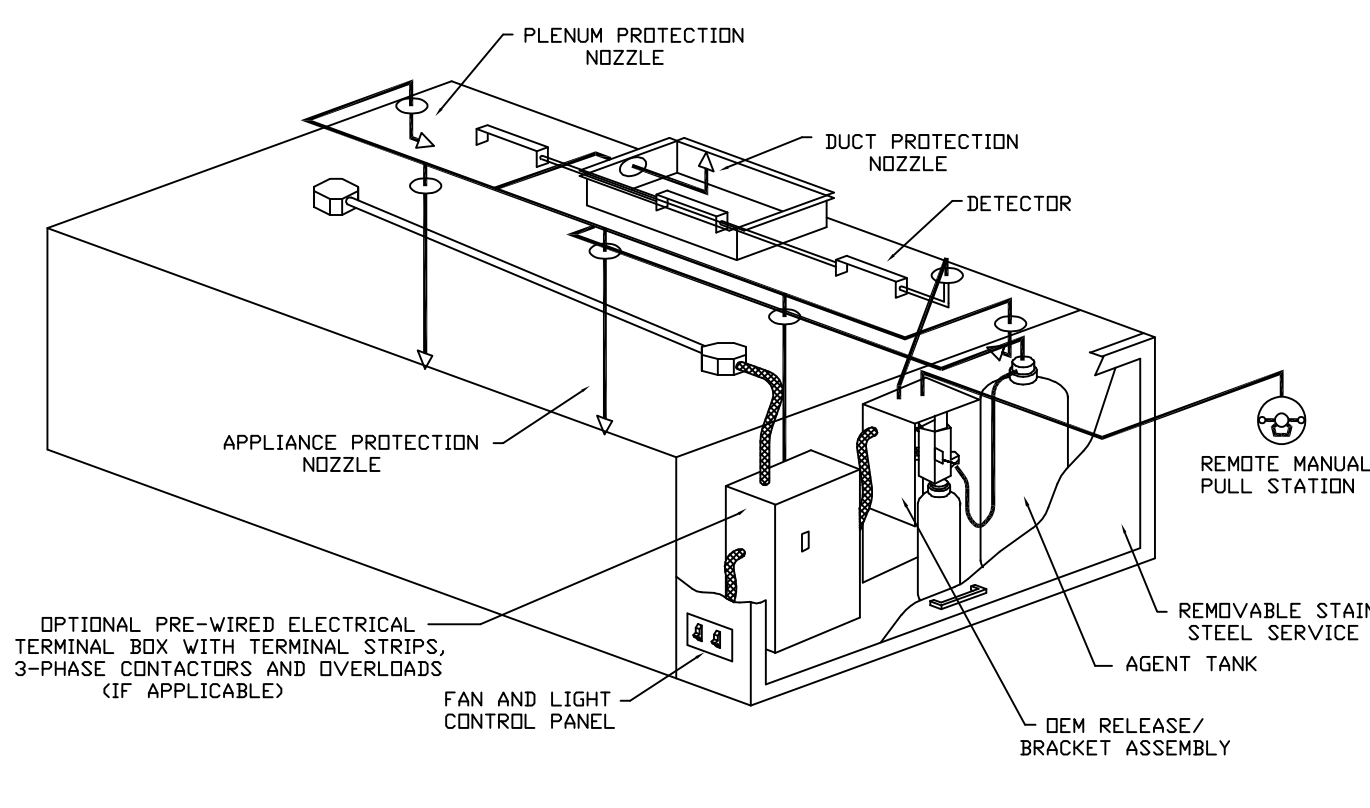
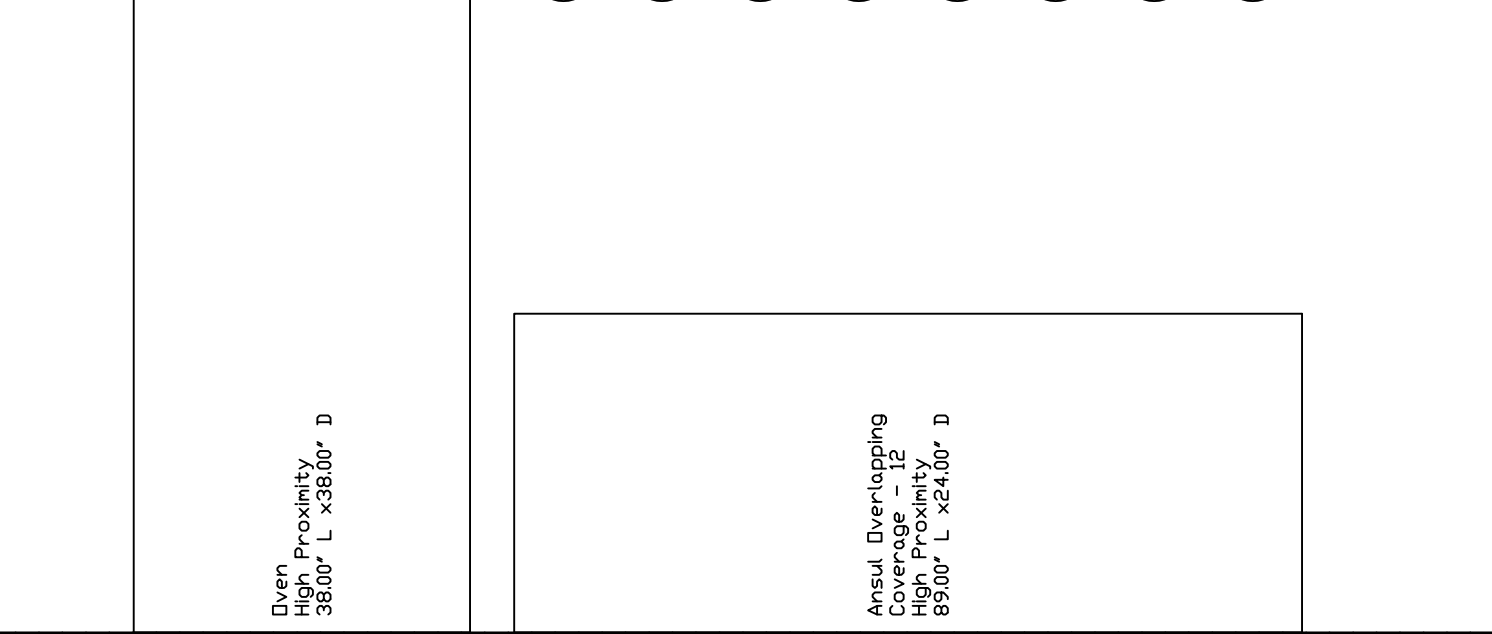
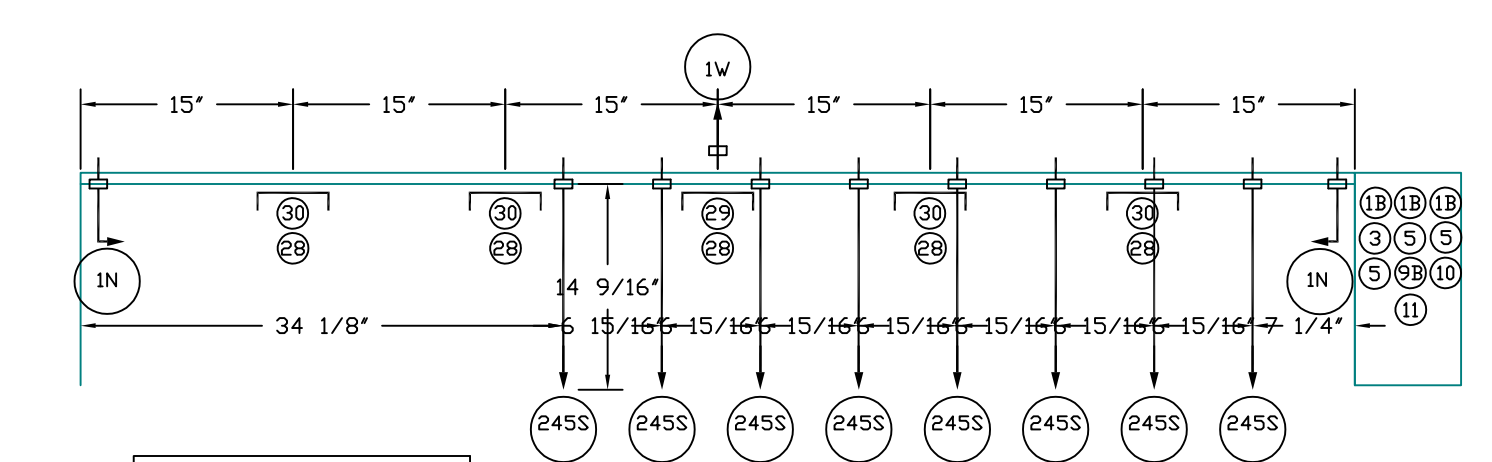
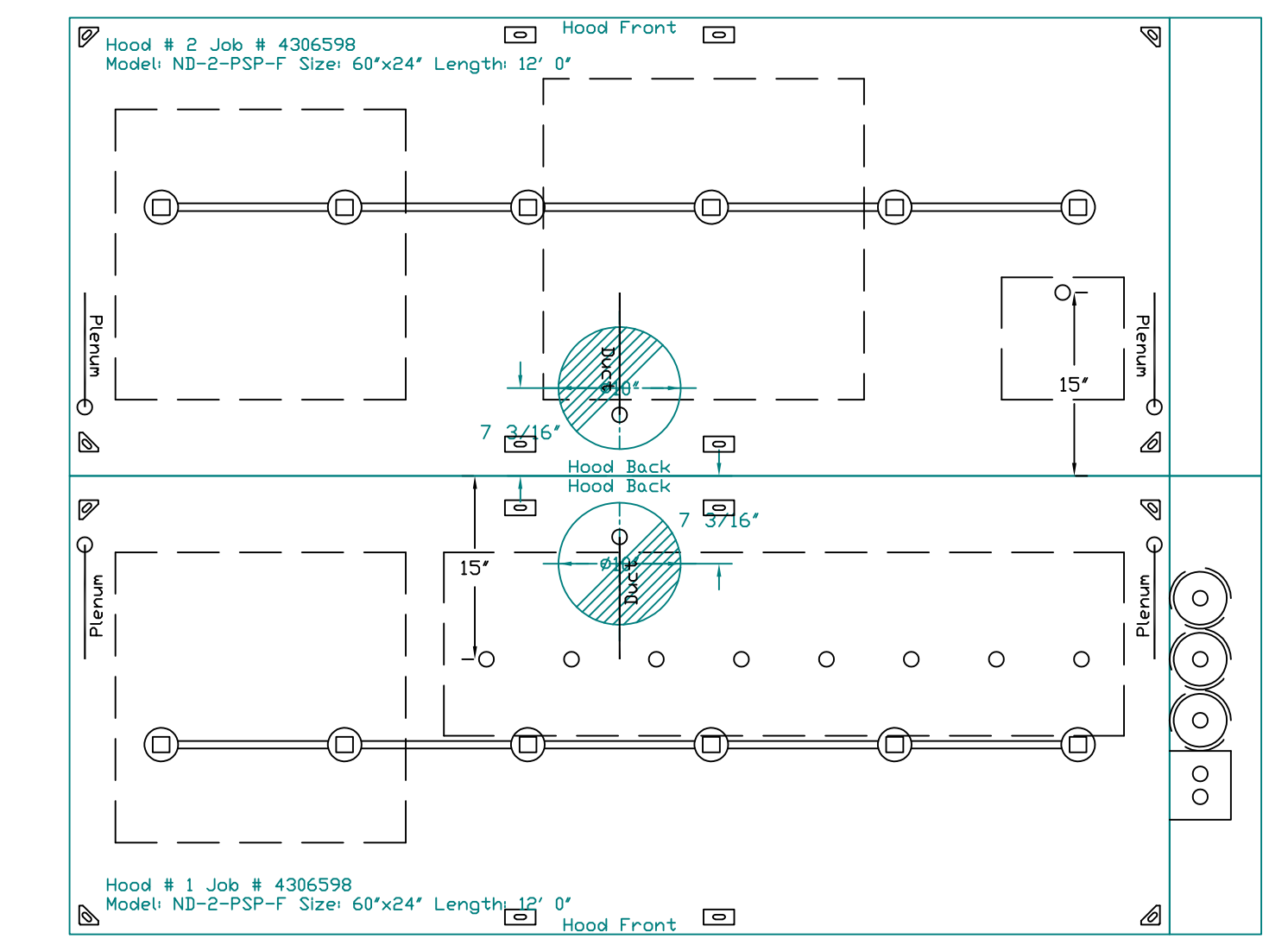
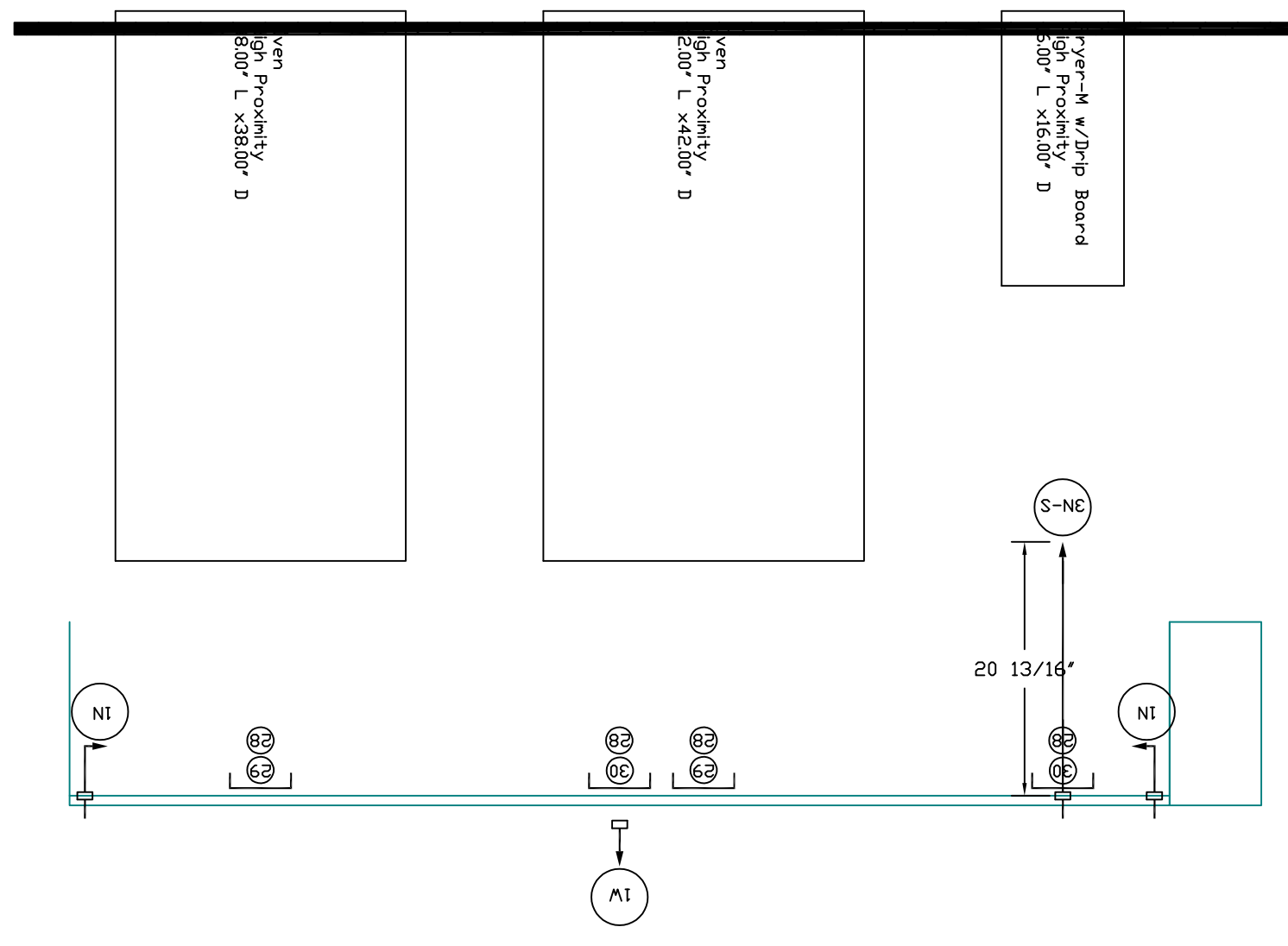
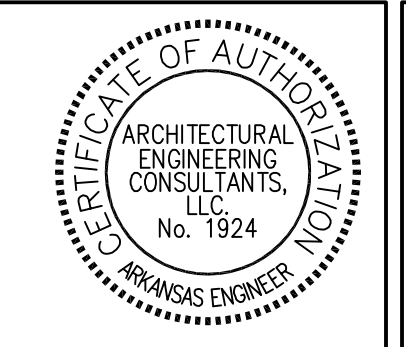
ISSUE DATE: 12-27-2020

NO.	DATE

KITCHEN HOOD DETAILS

M402





TYPICAL ANSUL R-102 SYSTEM LAYOUT

NOTES
- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.

SPECIFICATIONS
THE RESTAURANT FIRE SUPPRESSION SYSTEM SHALL BE THE PRE-ENGINEERED TYPE WITH A FIXED NOZZLE AGENT DISTRIBUTION NETWORK. IT SHALL BE LISTED WITH UNDERWRITERS LABORATORIES, INC. (UL)

Job #: 4306598
Job Name: STRAWBERRY SCHOOL
System Size: ANSUL-3.0/3.0/3.0 Total FP required: 25

REVISIONS table with columns for DESCRIPTION, DATE, and revision number.

CAPTIVE logo and contact information for Tulsa Office, including address, phone, and email.

Fire System Information - Job#4306598 table with columns for Tag, Type, Size, Flow Points, System, and Location on Hood.

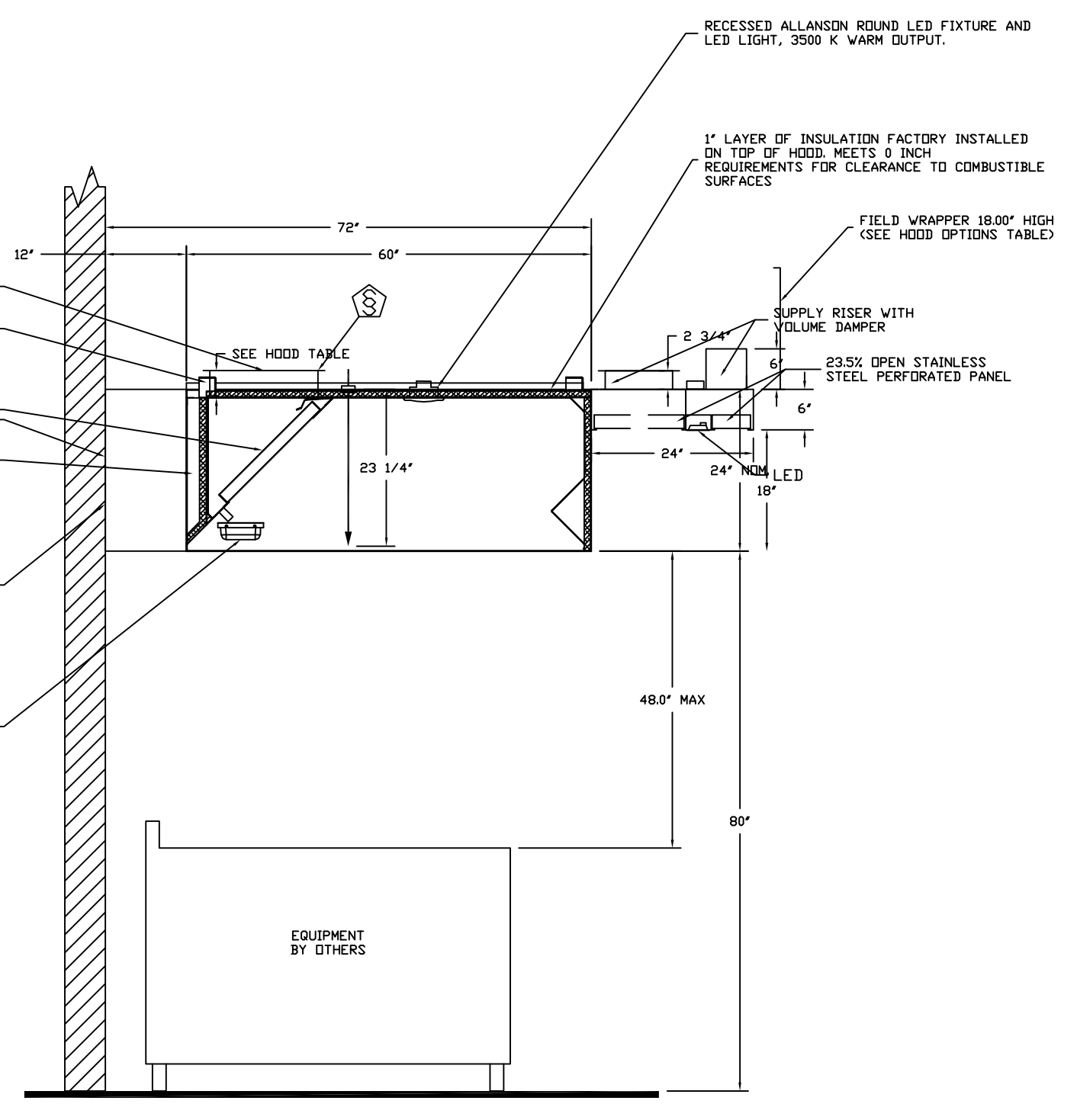
Fire System Parts List Key table with columns for Fire System No., Tag, Key Number - Part Description, Qty. by Factory, and Qty. by Dist.

NOTES
- FIELD PIPE DROPS AS SHOWN
- SLEEVING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY GAS
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.

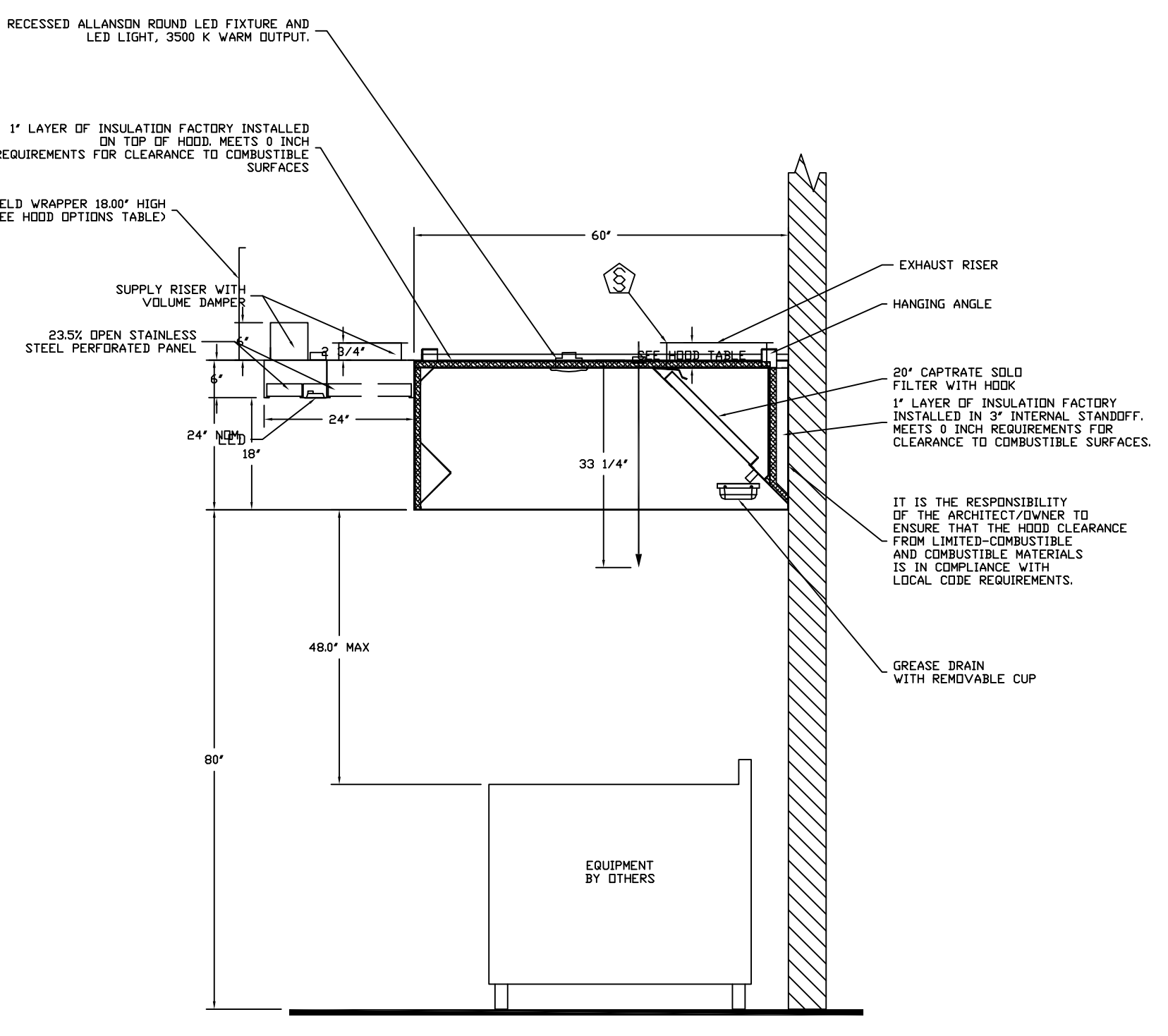
Job #: 4306598
Job Name: STRAWBERRY SCHOOL

System Size: ANSUL-3.0/3.0/3.0 Total FP required: 25
Hood # 1 12' 0.00' Long x 60' Wide x 24' High

- LEGEND - FIRE CABINET ANSUL SYSTEM
1A 15 GALLON TANK
1B 3 GALLON TANK
2 DEM AUTOMAN RELEASE



SECTION VIEW - MODEL 6024ND-2-ACPS-P HOOD - #1
DUCT NOZZLE AND PLENUM SPRAY BAR LOCATION



SECTION VIEW - MODEL 6024ND-2-ACPS-P HOOD - #2
DUCT NOZZLE AND PLENUM SPRAY BAR LOCATION

STRAWBERRY SCHOOL
LYNN, AR, 72440

DATE: 3/25/2020
DWG.#: 4306598
DRAWN BY: CWL
SCALE: 3/8" = 1'-0"
MASTER DRAWING
SHEET NO. 3

ARCHITECTURAL ENGINEERING CONSULTANTS, LLC.
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AEC JOB #: 0803.20.03

Table with columns for ISSUE DATE, REVISIONS, and SHEET NO.

M403







**EXHAUST FAN INFORMATION - Job#4306598**

FAN UNIT NO.	TAG	FAN UNIT MODEL #	CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS.)	SDNES
1		DU180HFA	2400	1.000	1094	1.000	0.6320	3	208	3.8	554 FPM	153	13
2		DU180HFA	2400	1.000	1094	1.000	0.6320	3	208	3.8	554 FPM	153	13
3		DU33HFA	600	0.500	1336	0.333	0.1470	1	115	4.3	297 FPM	67	12.1

**MUA FAN INFORMATION - Job#4306598**

FAN UNIT NO.	TAG	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP.	RPM	H.P.	B.H.P.	Ø	VOLT	FLA	MCA	MDCP	WEIGHT (LBS.)	SDNES
4		A2-D.250-20D	20MF-2-MDD	A2-D.250	2000	3840	0.500	1490	3.000	1.9020	3	208	9.5	11.9A	20A	806	14.4

**GAS FIRED MAKE-UP AIR UNIT(S)**

FAN UNIT NO.	TAG	INPUT BTUs	OUTPUT BTUs	TEMP. RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
4		246920	227166	56 deg F	7 in. w.c. - 14 in. w.c.	Natural	92

**FAN OPTIONS**

FAN UNIT NO.	TAG	OPTION (Qty. - Descr.)
1		1 - Grease Box 1 - Hinge Kit - Ships Loose for Curb Supplied by Others
2		1 - Grease Box 1 - Hinge Kit - Ships Loose for Curb Supplied by Others
3		1 - ECM Wiring Package - Manual or 0-10VDC Reference Speed Control (TELCO Motor), CCW Rotation 1 - 1 1/2" BDD Damper 1 - SCR-11 Bird Screen 1 - AC Interlock Relay - 24VAC Coil 1 - Motorized Backdraft Damper for A2-D Housing 1 - Low Fire Start 1 - Inlet Pressure Gauge, 0-35" 1 - Manifold Pressure Gauge, -5 to 15" wc 1 - Insulation Option for VBank filter section
4		1 - DF 2 Indoor Hanging Option - Includes 2 HSA125 Hanging Spring Isolators per Uni-Strut 1 - Separate 120V Wiring Package (Required and used only for DCV or Prewire with VFD) - Three Phase Only 1 - Size 2 Direct Fired Heater Low CFM Profile Package. Used on Heaters under 2500 cfm.

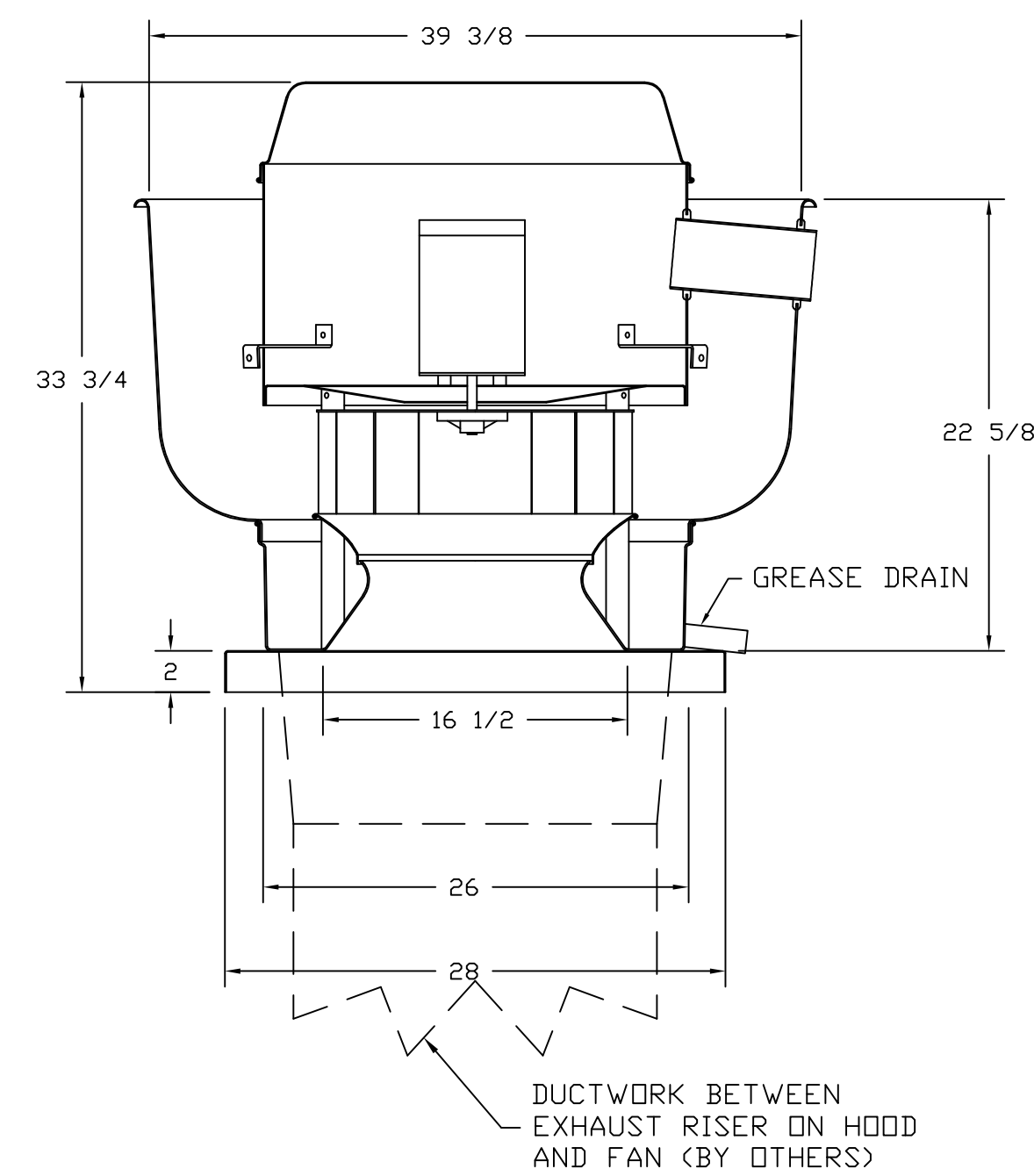
**FAN ACCESSORIES**

FAN UNIT NO.	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1		YES						
2		YES						
3			YES					
4					YES		YES	

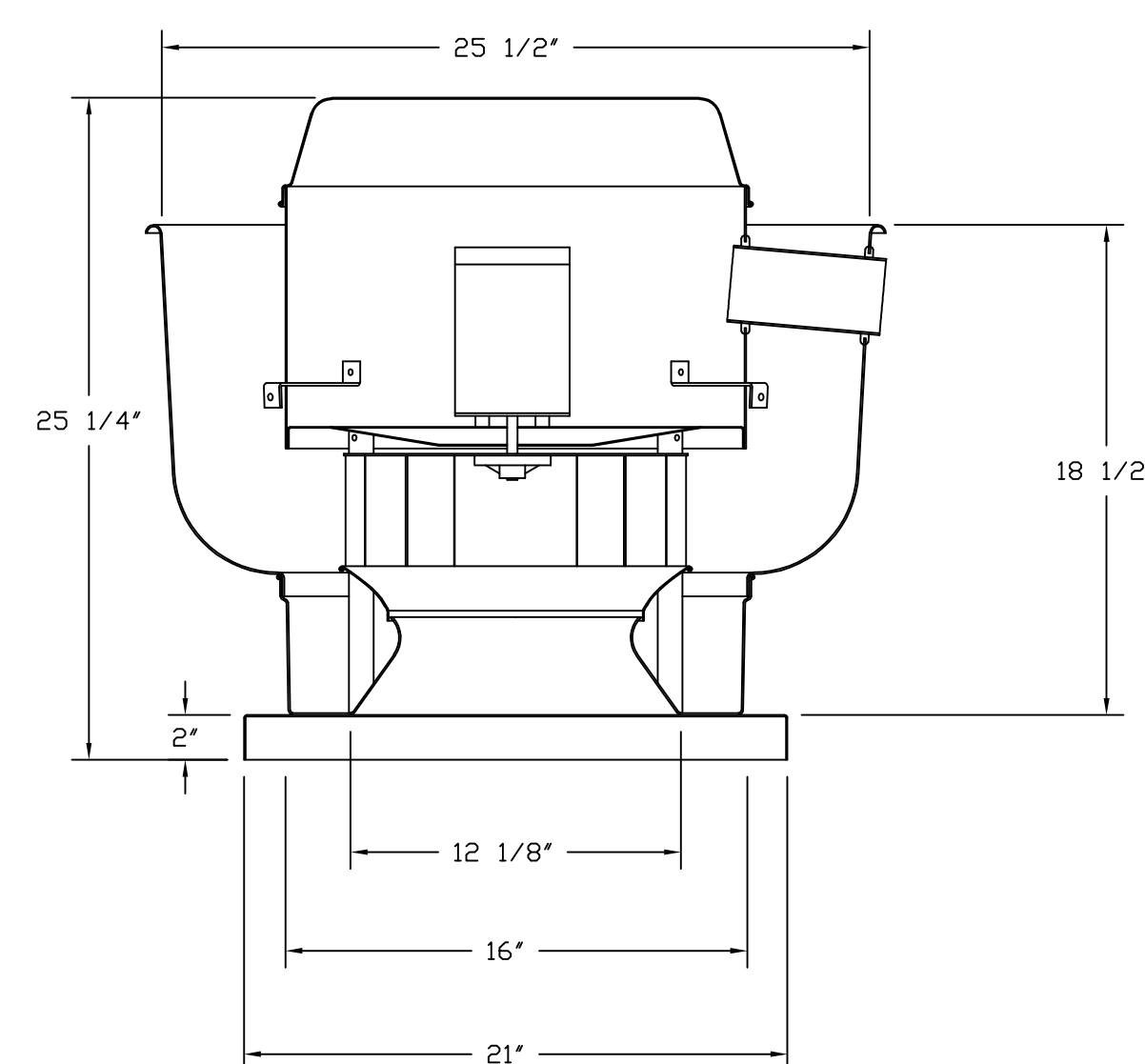
**CURB ASSEMBLIES**

NO.	DN FAN	WEIGHT	ITEM	SIZE
1	# 1	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented
2	# 2	34 LBS	Curb	26.500"W x 26.500"L x 24.000"H Vented
3	# 3	30 LBS	Curb	19.500"W x 19.500"L x 24.000"H
4	# 4	90 LBS	Curb	31.000"W x 79.000"L x 20.000"H Insulated
	# 4		Rail	4.000"W x 4.000"L x 36.000"H

FANS #1, #2 - DU180HFA EXHAUST FAN



FAN #3 DU33HFA - EXHAUST FAN



**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- RESTAURANT MODEL
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)
- HIGH HEAT OPERATION 300°F (149°C)
- GREASE CLASSIFICATION TESTING

**NORMAL TEMPERATURE TEST**

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

**ABNORMAL FLARE-UP TEST**

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

**OPTIONS**

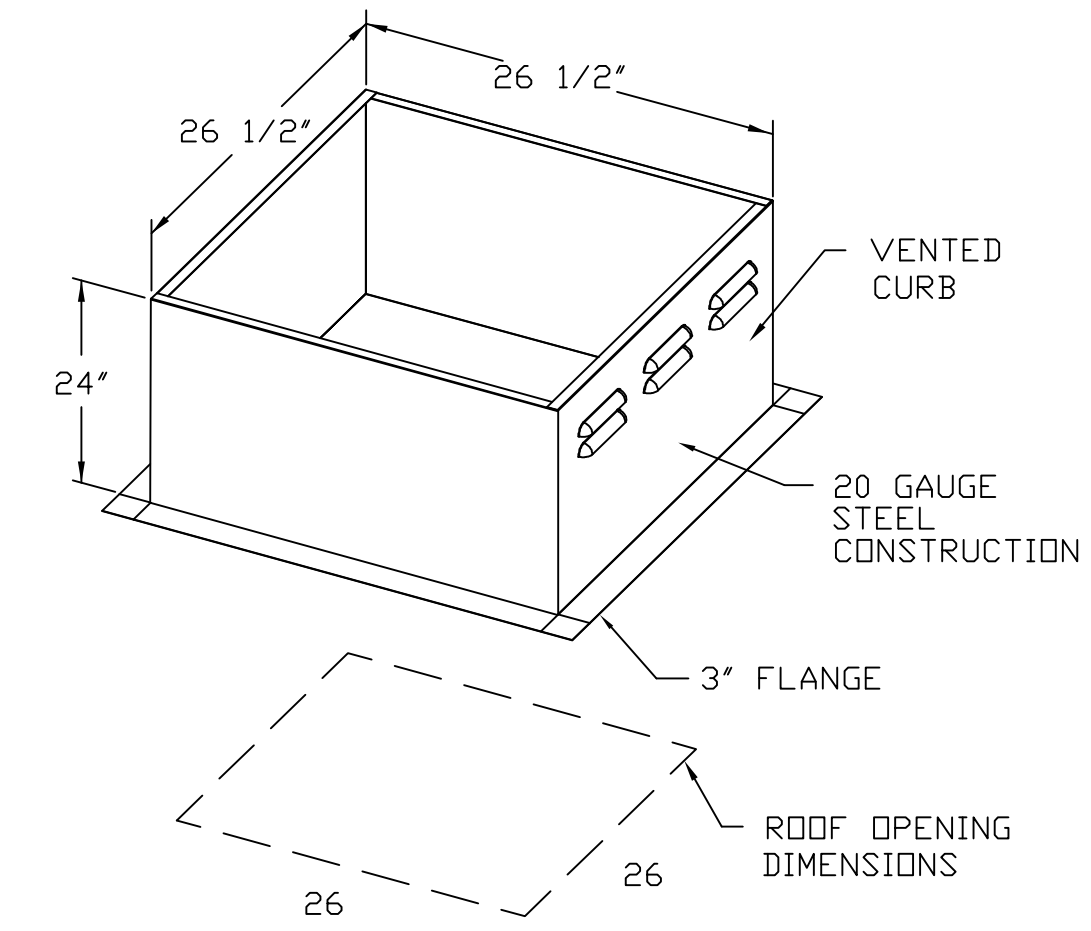
GREASE BOX  
HINGE KIT - SHIPS LOOSE FOR CURB SUPPLIED BY OTHERS.

**FEATURES:**

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS)
- ROOF MOUNTED FANS
- UL705
- VARIABLE SPEED CONTROL
- INTERNAL WIRING
- WEATHERPROOF DISCONNECT
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE)

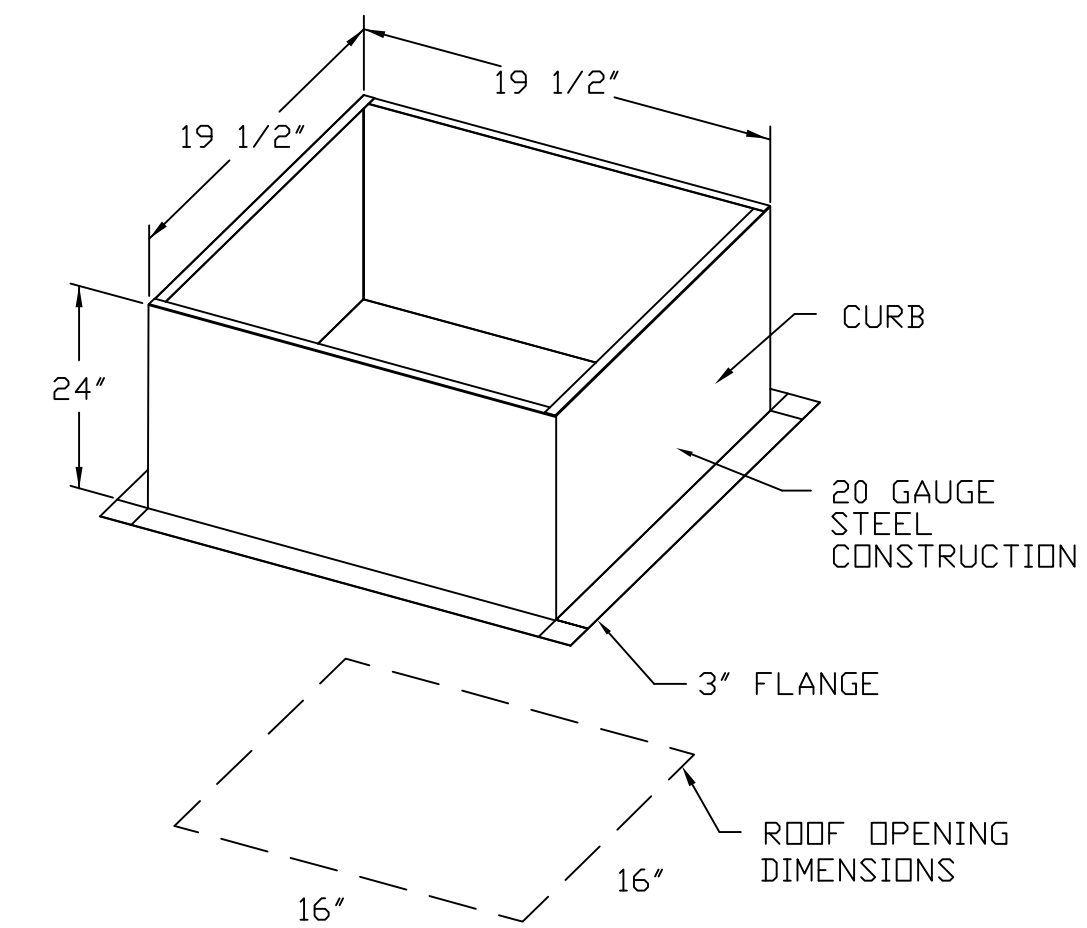
**OPTIONS**

ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL (TELCO MOTOR), CCW ROTATION.  
1 1/2" BDD DAMPER.  
SCR-11 BIRD SCREEN.



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

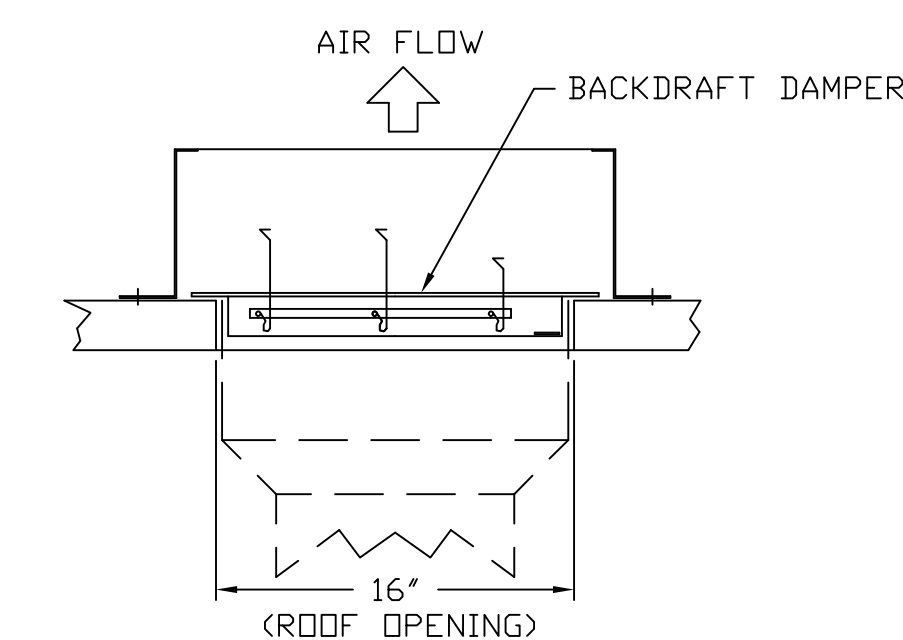
SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE



PITCHED CURBS ARE AVAILABLE FOR PITCHED ROOFS.

SPECIFY PITCH:  
EXAMPLE: 7/12 PITCH = 30° SLOPE

**BACKDRAFT DAMPER INSTALLATION**



**REVISIONS**

NO.	DESCRIPTION	DATE

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12101 East 51st Street, Suite 101A, Tulsa, OK 74146  
PHONE: (918) 258-0291 FAX: (918) 227-5947 EMAIL: rgl80@captiveaire.com

**CAFETERIA AND MULTI-PURPOSE ROOM**  
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STRAWBERRY SCHOOL  
LYNN, AR, 72440

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ISSUE DATE: 12-27-2020  
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SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 5

NO.	DATE

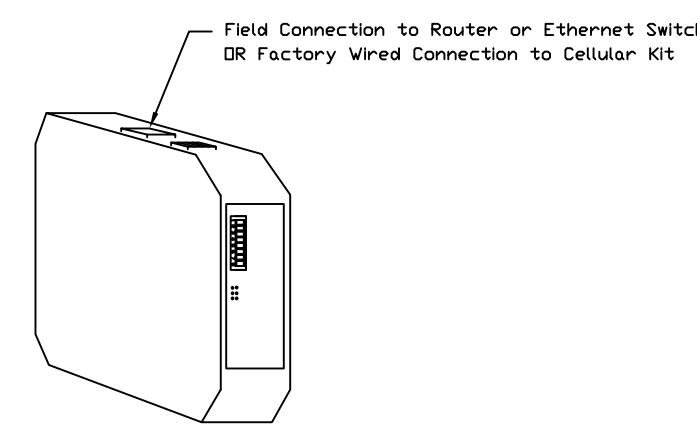
M405







ELECTRICAL PACKAGE - Job#4306598						
NO.	TAG	PACKAGE #	LOCATION	SWITCHES		FANS CONTROLLED
				LOCATION	QUANTITY	
1		DCV-2111	Utility Cabinet Right	10 - UDS	1 Light 1 Fan	Smart Controls DCV

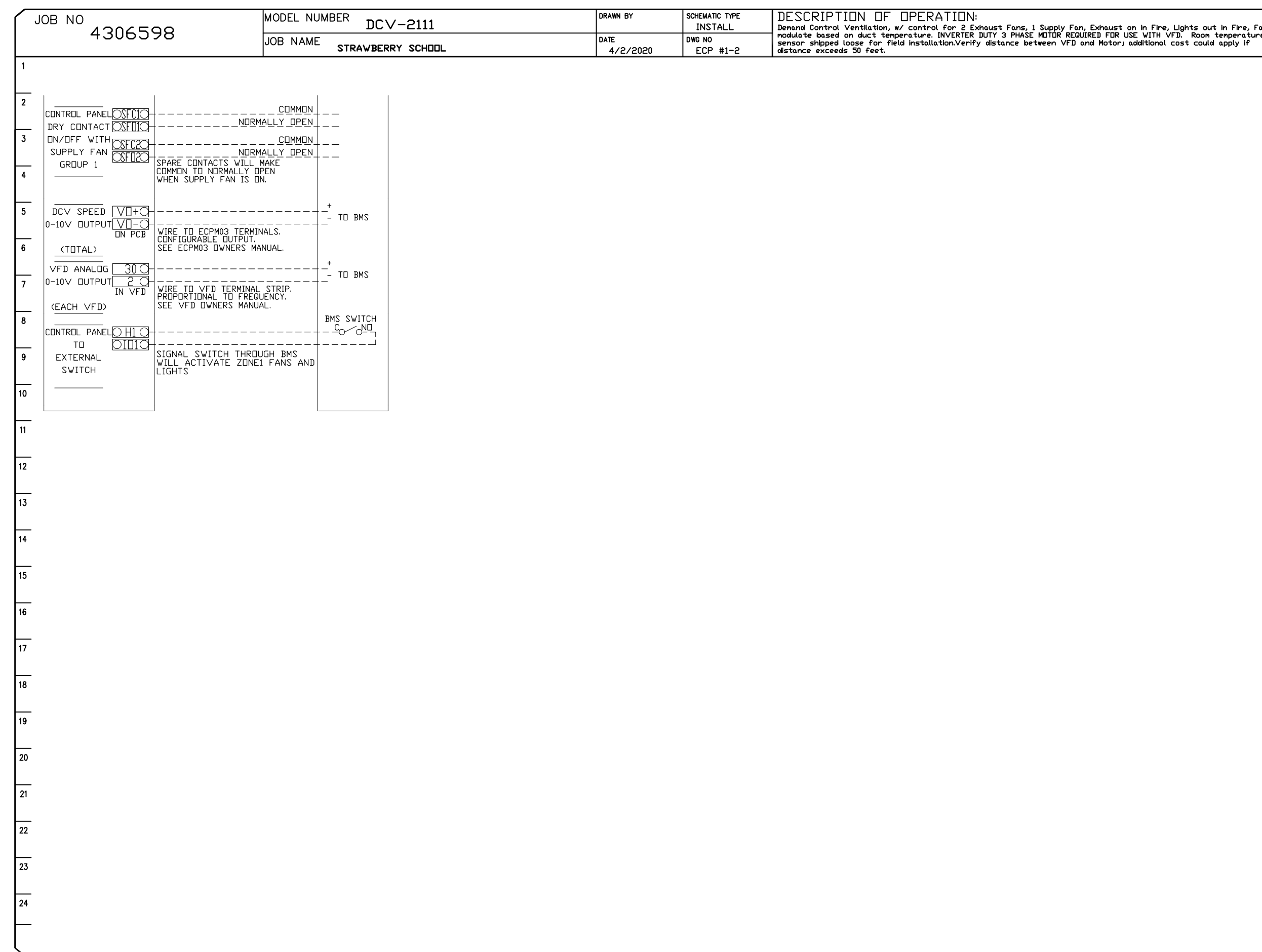
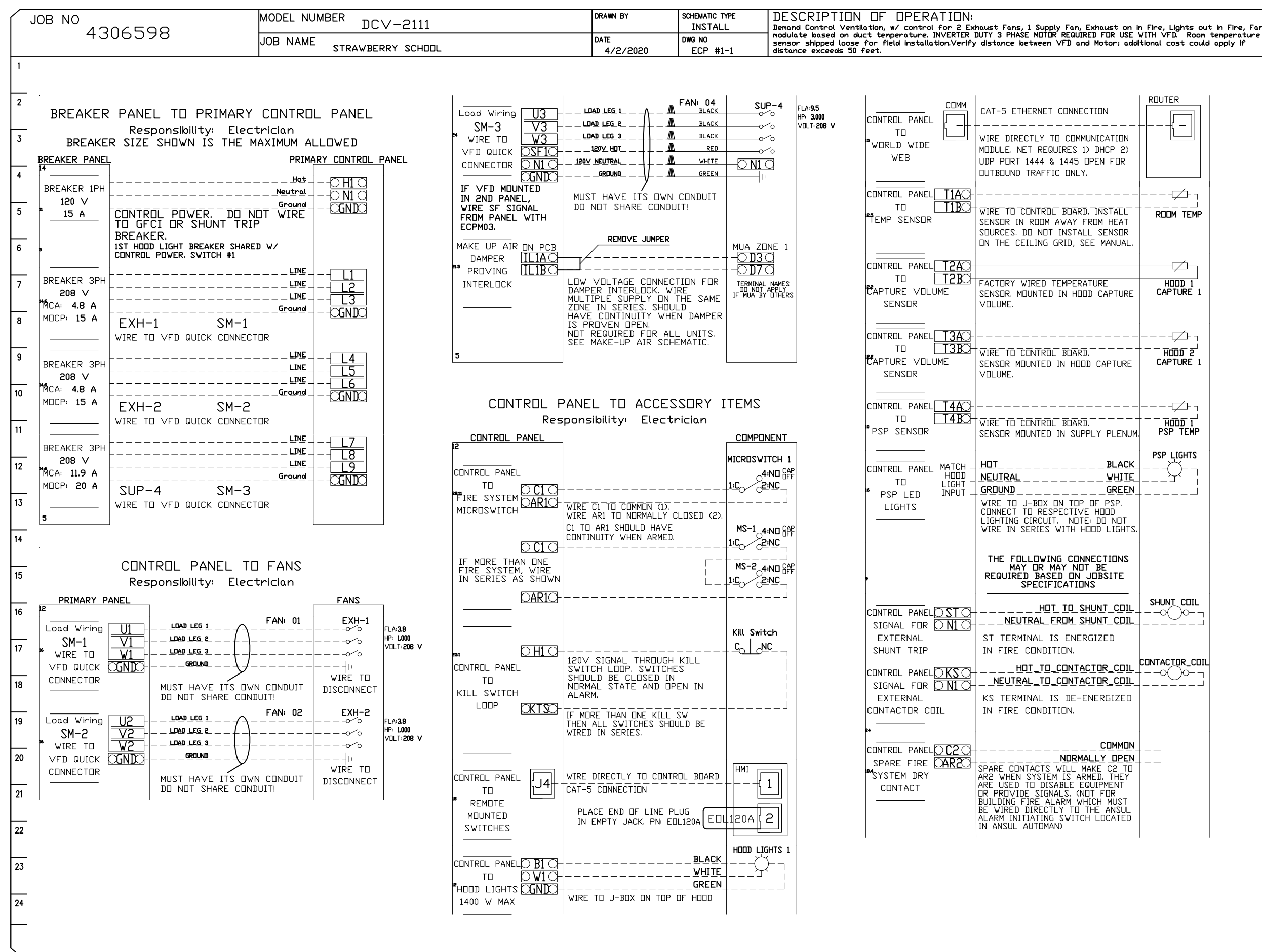


GASlink Monitor and Control

- Hood control panel to support communications to cloud-based Building Management System.
- Hood Control Panel to allow cloud-based Building Management System to monitor real time parameters outlined as MONITOR in the points list.
- Hood Control Panel to allow cloud-based Building Management System to control parameters outlined as CONTROL in the points list.
- Hood control panel to allow remote changes to system setting such as VFD Frequencies, ECM speeds, temperature set points, fan and wash schedules, etc.

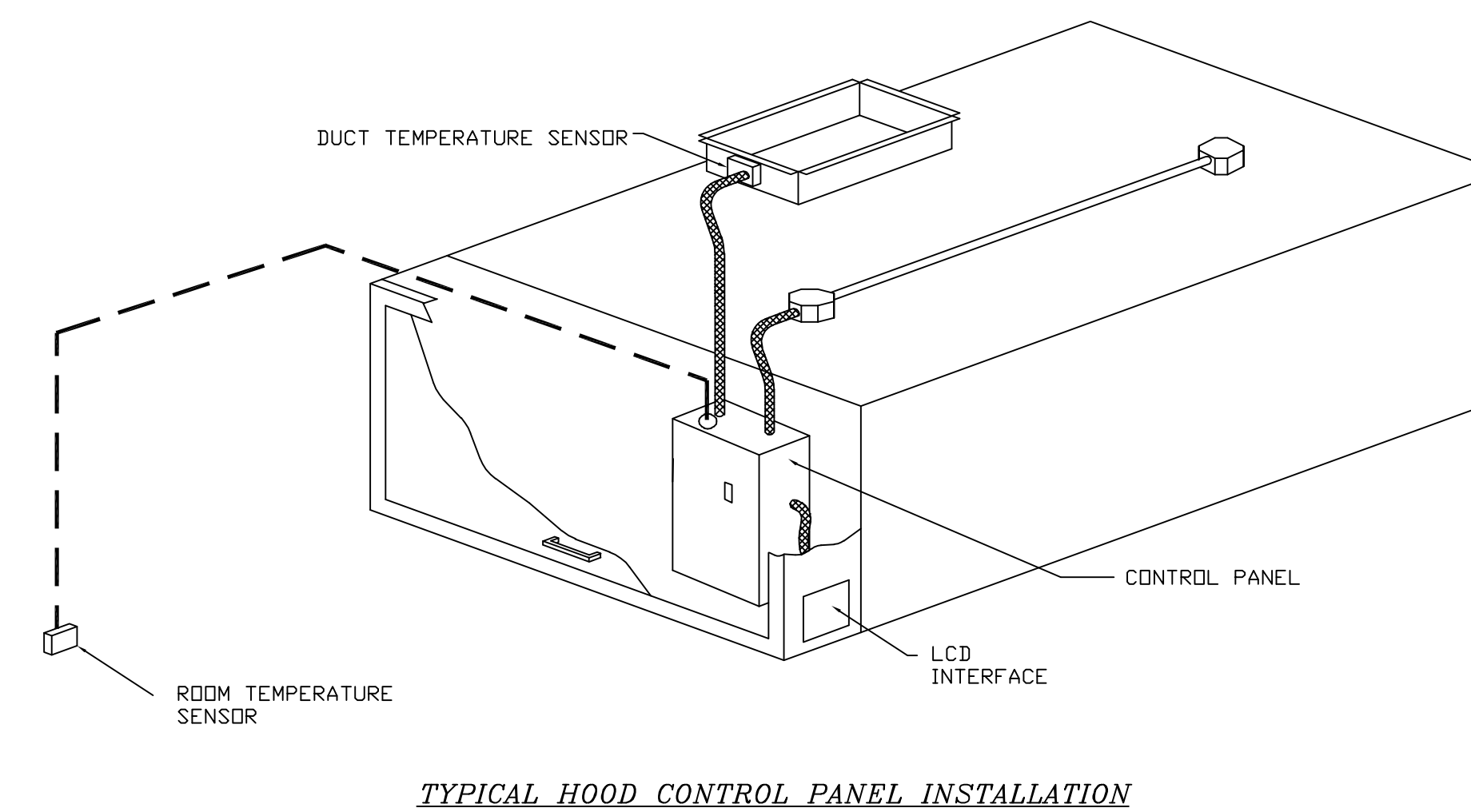
MONITORING AND CONTROL POINTS LIST

DCV Packages	Function	SC Packages	Function
Room Temperature	MONITOR	Room Temperature	MONITOR
Duct Temperature	MONITOR	Duct Temperature	MONITOR
MUA Discharge Temperature	MONITOR	MUA Discharge Temperature	MONITOR
Kitchen RTU Discharge Temperature	MONITOR	Kitchen RTU Discharge Temperature	MONITOR
Fan Speed	MONITOR	Controller Faults	MONITOR
Fan Amperage	MONITOR	Fan Faults	MONITOR
Fan Power	MONITOR	Fan Status	MONITOR
VFD Faults	MONITOR	PCU Faults	MONITOR
Controller Faults	MONITOR	PCU Filter Clog Percentages	MONITOR
Fan Faults	MONITOR	Fire Condition	MONITOR
Fan Status	MONITOR	COKE Fire System	MONITOR
PCU Faults	MONITOR	Building Pressures	MONITOR
PCU Filter Clog Percentages	MONITOR	Fans Buttons	MONITOR & CONTROL
Fire Condition	MONITOR	Lights Buttons	MONITOR & CONTROL
COKE Fire System	MONITOR	Wash Button	MONITOR & CONTROL
Building Pressures	MONITOR		
Prep The Button	MONITOR & CONTROL		
Fans Button	MONITOR & CONTROL		
Lights Button	MONITOR & CONTROL		
Wash Button	MONITOR & CONTROL		



Demand Control Ventilation Hood Control Panel Specifications:

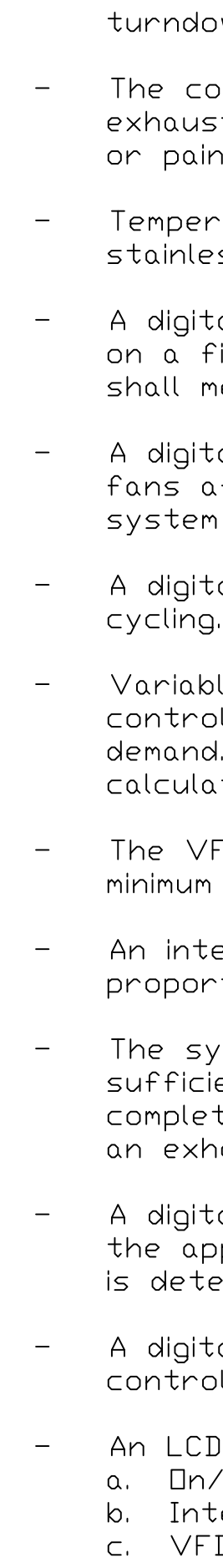
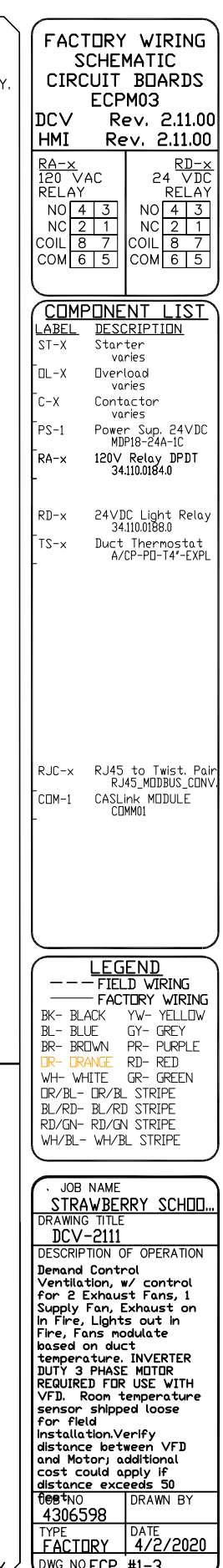
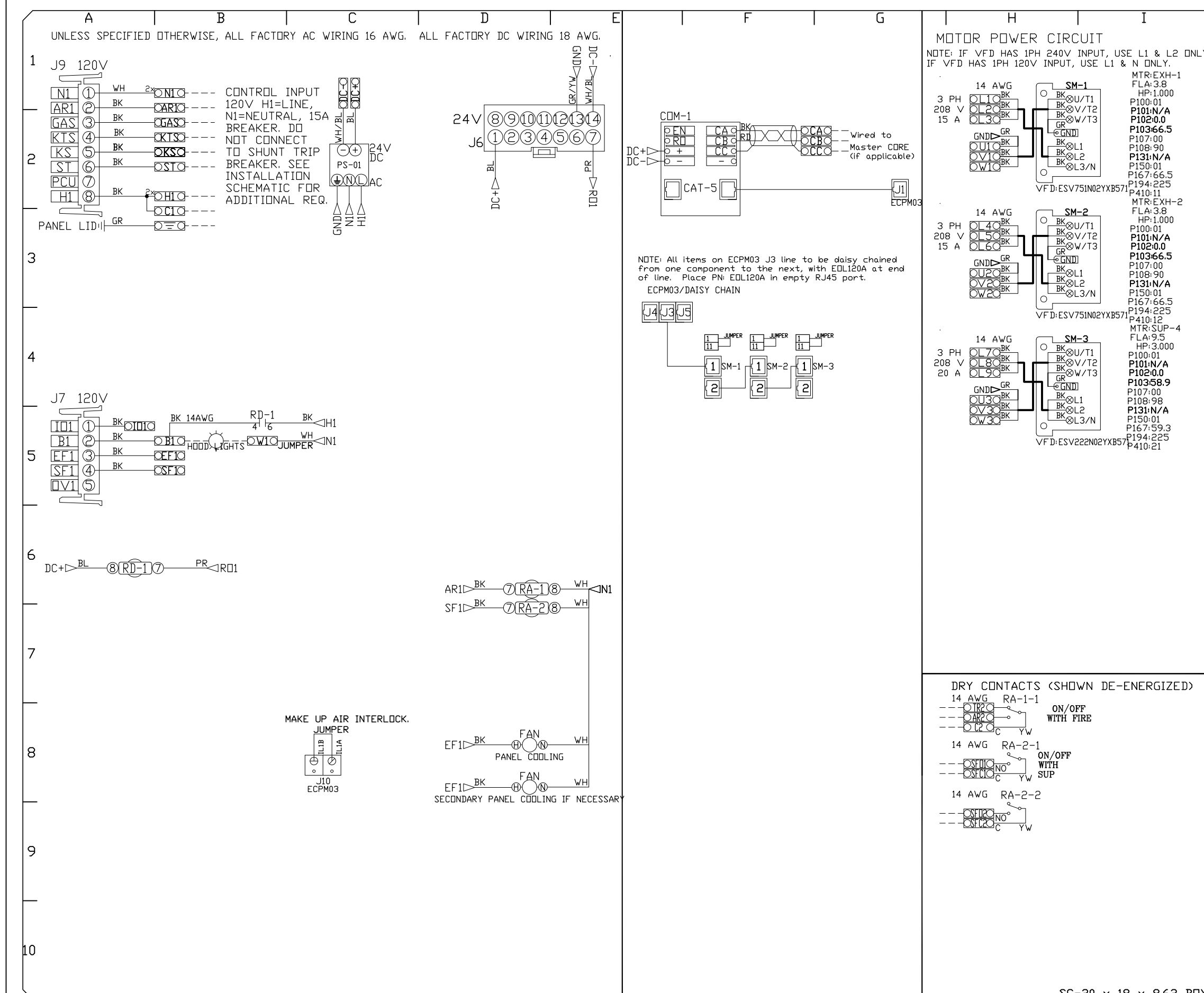
- Controls shall be listed by ETL (UL 508A) and shall comply with demand ventilation system shutdown requirements outlined in IECC 403.2.8 (2015).
- The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.
- Temperature probe(s) located in the exhaust duct riser(s) shall be constructed of stainless steel.
- A digital controller shall be provided to activate the hood exhaust fans dynamically based on a fixed differential between the ambient and duct temperatures sensors. This function shall meet the requirements of IMC 507.1.1.
- A digital controller shall provide adjustable hysteresis settings to prevent cycling of the fans after the cooking appliances have been turned off and/or the heat in the exhaust system is reduced.
- A digital controller shall provide an adjustable minimum fan run-time setting to prevent fan cycling.
- Variable Frequency Drives (VFDs) shall be provided for fans as required. The digital controller shall modulate the VFDs between a minimum setpoint and a maximum setpoint on demand. The duct temperature sensor input(s) to the digital controller shall be used to calculate the speed reference signal.
- The VFD speed range of operation shall be from 0% to 100% for the system, with the actual minimum speed set as required to meet minimum ventilation requirements.
- An internal algorithm to the digital controller shall modulate supply fan VFD speed proportional to all exhaust fans that are located in the same fan group as the supply fan.
- The system shall operate in PREP MODE during light cooking load or COOL DOWN MODE when sufficient heat remains underneath the hood system after cooking operations have completed. Operation during either of these periods will disable the supply fans and provide an exhaust fan speed that is equal to the minimum ventilation requirement.
- A digital controller shall disable the supply fan(s), activate the exhaust fan(s), activate the appliance shunt trip, and disable an electric gas valve automatically when fire condition is detected on a covered hood.
- A digital controller shall allow for external BMS fan control via Dry Contact (external control shall not override fan operation logic as required by code).
- An LCD interface shall be provided with the following features:
  - a. On/Off push button fan & light switch activation
  - b. Integrated gas valve reset for electronic gas valves (no reset relay required)
  - c. VFD Fault display with audible & visual alarm notification
  - d. Duct temperature sensor failure detection with audible & visual alarm notification
  - e. Mis-wired duct temperature sensor detection with audible & visual alarm notification
  - f. A single low voltage Cat-5 RJ45 wiring connection
  - g. An energy savings indicator that utilizes measured kWh from the VFDs



TYPICAL HOOD CONTROL PANEL INSTALLATION

Sequence of Operations:

- The hood control panel is capable of operating in one or more of the following states at any given time:
- **Automatic:** The system operates based on the differential between room temperature and the temperature at the hood cavity or exhaust duct collar. Fans activate at a configurable temperature differential threshold. Depending on the job configuration each fan zone can be configured as static or dynamic. These terms refer to whether a variable motor (such as EC Motors or VFD driven motors) modulate with temperature. If the panel is equipped with variable speed fans and the zone is defined as 'dynamic', these will modulate within a user-defined range based on the temperature differential. Panels equipped with variable speed fans and a fan zone defined as 'static', fans will run at a set speed calculated for the drive. Demand control ventilation systems are capable of modulating exhaust and make up air fan speeds per the requirements outlined in IECC 403.2.8.
  - **Manual:** The system operates based on human input from an HMI.
  - **Schedule:** A weekly schedule can be set to run fans for a specified period throughout the day. There are three occupied times per day to allow for the user to set up a time that is suitable to their needs. Any time that is within the defined occupied time, the system will run at modulation mode and follow the fan procedure algorithm based on temperature during this time. During unoccupied time, the system will have an extra offset to prevent unintended activation of the system during a time where the system is not being occupied.
  - **Other:** The system operates based on the input from an external source (DDC, BMS or hard-wired interlock)



REVISIONS	
DESCRIPTION	DATE

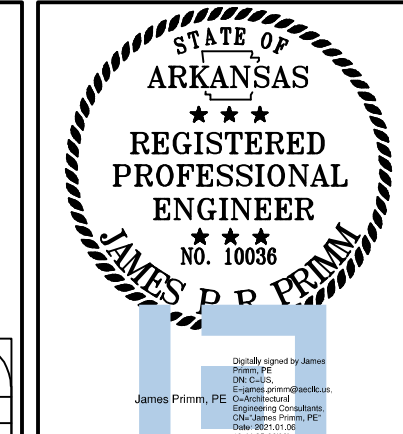
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LYNN, AR, 72440

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SCALE: 3/4" = 1'-0"  
MASTER DRAWING  
SHEET NO. 7



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AEC JOB #: 0803.003

REVISIONS	
NO.	DATE





ENGINEER OF RECORD  
STANLEY R. CURTIS

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FOR  
HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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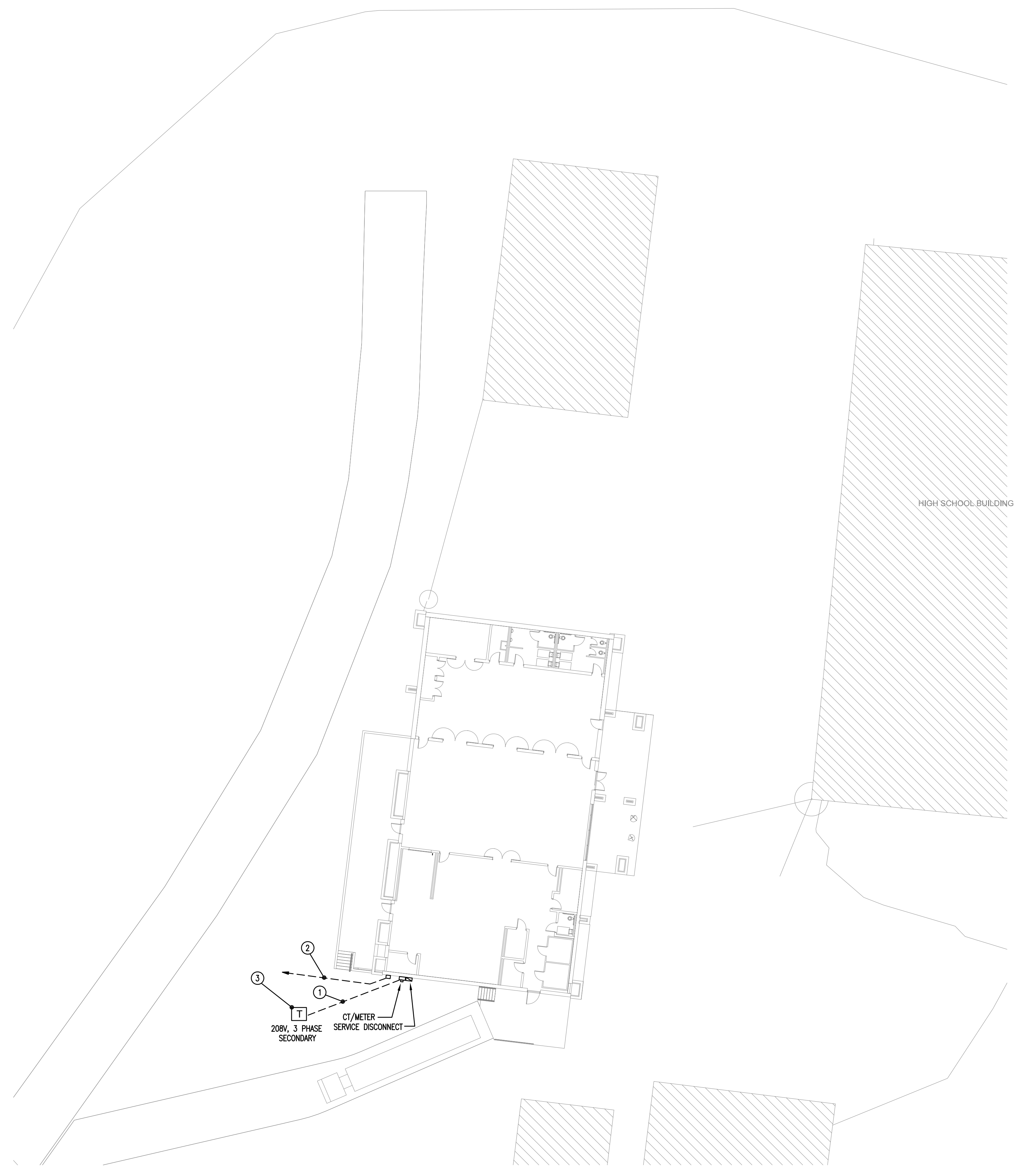
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NATIONAL ENGINEERING SERVICES  
PLLC  
No. 2259  
ARIZONA - ENGINEER

ISSUE DATE: 12/27/2020

REVISIONS	
NO.	DATE

ES.1



**1 SITE ELECTRICAL PLAN**  
SCALE: 1" = 20'

**GENERAL NOTES:**

- A. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO EXAMINE EXISTING SITE CONDITIONS. COORDINATE REMOVAL OF EXISTING UTILITY POLES WITHIN THE FOOTPRINT OF THE NEW BUILDING AND NEW PAD MOUNTED TRANSFORMER TO SERVE EXISTING BUILDINGS. INCLUDE COSTS IN THIS PROJECT BID.
- B. CONTRACTOR TO UTILIZE UNDERGROUND UTILITY LOCATING SERVICE TO IDENTIFY ALL UNDERGROUND UTILITIES PRIOR TO TRENCHING. COORDINATE ROUTING WITH CIVIL ENGINEER AND UTILITY.

**KEYED NOTES:**

- ① UNDERGROUND SECONDARY ELECTRICAL SERVICE FOR RETAIL. SEE DETAIL #1, ES.2, ELECTRICAL SERVICE RISER FOR ADDITIONAL INFORMATION. FIELD VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO TRENCHING.
- ② UNDERGROUND TELE/DATA SERVICE. ROUTE (2) 2" UNDERGROUND TO TELE/DATA SERVICE POINT. FIELD VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO TRENCHING.
- ③ PROPOSED LOCATION OF ELECTRICAL UTILITY COMPANY TRANSFORMER. COORDINATE WITH SERVICE PROVIDER.







12/27/2020

ENGINEER OF RECORD  
STANLEY R. CURTIS

CAFETERIA AND MULTI-PURPOSE ROOM

Project Number: 1920-3809-001

FOR HILLCREST SCHOOL DISTRICT

HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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ISSUE DATE: 12/27/2020

REVISIONS	
NO.	DATE

E1.1

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	FLUORESCENT LIGHT FIXTURE - CEILING MOUNTED
	FLUORESCENT LIGHT FIXTURE EQUIPPED WITH 2-LAMP SELF-CONTAINED EMERGENCY BATTERY PACK
	FLUORESCENT LIGHT FIXTURE - CEILING MOUNTED
	FLUORESCENT LIGHT FIXTURE EQUIPPED WITH 2-LAMP SELF-CONTAINED EMERGENCY BATTERY PACK
	PARABOLIC FLUORESCENT LIGHT FIXTURE - CEILING MOUNTED
	PARABOLIC FLUORESCENT LIGHT FIXTURE - CEILING MOUNTED
	FLUORESCENT STRIP LIGHT - CEILING MOUNTED OR CHAIN HUNG
	FLUORESCENT STRIP LIGHT - EQUIPPED WITH 2-LAMP SELF-CONTAINED EMERGENCY BATTERY PACK
	FLUORESCENT STRIP LIGHT - WALL MOUNTED
	FLUORESCENT LIGHT FIXTURE - WALL MOUNTED
	INCANDESCENT, FLUORESCENT, OR HID DOWNLIGHT FIXTURE - CEILING MOUNTED
	INCANDESCENT, FLUORESCENT, OR HID DOWNLIGHT FIXTURE - CEILING MOUNTED ON EMERGENCY POWER CIRCUIT OR EQUIPPED WITH BATTERY PACK
	INCANDESCENT, FLUORESCENT, OR HID LIGHT FIXTURE - WALL MOUNTED
	RECESSED WALL WASH LIGHT FIXTURE - ARROW INDICATES DIR. OF LIGHT OUTPUT
	AREA LIGHT POLE
	AREA LIGHT POLE
	EMERGENCY LIGHT FIXTURE
	EXIT LIGHTS - WALL MT. & CEILING MT. SHOWN - SHADING INDICATES FACE(S), DIRECTIONAL ARROWS SHALL BE AS SHOWN ON PLANS
	SINGLE-POLE TOGGLE SWITCH
	TWO-POLE TOGGLE SWITCH
	THREE-WAY TOGGLE SWITCH (K3-KEYED 3-WAY)
	FOUR-WAY TOGGLE SWITCH (K4-KEYED 4-WAY)
	DIMMER CONTROL SWITCH OR STATION (AS SPECIFIED ON PLANS AND/OR RISER) RATED FOR LOAD AND LOAD TYPE.
	MANUAL MOTOR STARTER WITH OVERLOADS, TOGGLE OPERATED
	SINGLE-POLE TOGGLE SWITCH - KEY OPERATED
	SINGLE-POLE TOGGLE SWITCH - KEY OPERATED AND WEATHERPROOF TYPE
	MULTI-LEVEL SWITCHING: Sa - SWITCHES 2 OUTER LAMPS Sb - SWITCHES INNER LAMP(S)
	DUPLEX RECEPTACLE - HUBBELL WIRING DEVICE #CR20WHTR W/SS8 COVERPLATE MOUNT WITH GROUND TERMINAL UP 18" TO BOTTOM OF BOX (UNO).
	QUADPLEX RECEPTACLE - (2) HUBBELL WIRING DEVICE #CR20WHTR W/SS8 COVERPLATE. MOUNT WITH GROUND TERMINAL UP 18" TO BOTTOM OF BOX (UNO).
	DUPLEX RECEPTACLE MOUNTED HORIZONTALLY ABOVE COUNTER TOP - VERIFY MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS AND MILLWORK DETAILS.
	GROUND FAULT RECEPTACLE - HUBBELL WIRING DEVICE #GFTR20W W/SS26 COVERPLATE.
	WEATHERPROOF IN USE TYPE RECEPTACLE - HMD #GRF120W W/RW57500 IN USE WEATHERPROOF HOUSING. MOUNT AT 18" TO BOTTOM OF BOX (UNO).
	ISOLATED GROUND TYPE RECEPTACLE - HMD #GS362 W/ SS8 COVERPLATE.
	NON-METALIC FLUSH MULTI SERVICE FLOOR BOX WITH UNIVERSAL COVER FOR EITHER CARPET OR TILE AS NECESSARY. COORDINATE WITH ARCHITECT. FLOOR BOX TO ACCOMMODATE DUPLEX CONVENIENCE RECEPTACLE AND (4) TELE/DATA PORTS. HMD SYSTEM ONE TYPE.
	SPECIAL PURPOSE OUTLET - NEMA CONFIGURATION (VOLTAGE, AMPACITY) AS NOTED ON DRAWINGS
	SURFACE MOUNTED DUAL COMPARTMENT RACEWAY WITH DEVICES AS SHOWN HUBBELL #HBL4750 SERIES
	ALUMINUM POWER POLE - HUBBELL WIRING DEVICE #HBLPP0AL W/ATB - (10')

NOTE:  
 1. NOT ALL SYMBOLS MAY APPLY TO THIS PROJECT.  
 2. SYMBOLS SHOWN DASHED ON PLANS INDICATES EXISTING DEVICES, FIXTURES, EQUIPMENT, ETC.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	DATA OUTLET: # INDICATES RJ45 DATA MODULES IN 2 GANG, 3 1/2" DEEP BACKBOX. PROVIDE 1" C. WITH PULL STRING TO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE CONDUIT BUSHING AND COVERPLATE.
	TELE OUTLET: # INDICATES RJ45 DATA MODULES IN 2 GANG, 3 1/2" DEEP BACKBOX. PROVIDE 1" C. WITH PULL STRING TO ACCESSIBLE LOCATION ABOVE CEILING. PROVIDE CONDUIT BUSHING AND COVERPLATE.
	INTERACTIVE WHITEBOARD OUTLET: PROVIDE USB PORT WITH EXTENDER IN 2 GANG, 3-1/2" DEEP BACKBOX WITH USB WALLPLATE. REF: DETAIL ON SHEET E4.
	TEACHER STATION OUTLET: PROVIDE 3 GANG, 3-1/2" DEEP BACKBOX WITH CUSTOM WALLPLATE. BOX TO INCLUDE VGA, USB, DATA, AUDIO AS SHOWN ON SHEET E4.
	TELEVISION OUTLET - SINGLE GANG FLUSH OUTLET BOX WITH 3/4" C. & PULL STRING TO ACCESSIBLE LOCATION ABOVE CEILING IN CORRIDOR.
	JUNCTION BOX - SIZED TO ACCOMMODATE CONNECTION
	DISCONNECT SWITCH
	COMBINATION MOTOR STARTER / DISCONNECT SWITCH
	MOTOR STARTER
	EMERGENCY POWER OFF STATION (REMOTE SHUNT TRIP) - REFER TO "POWER RISER DIAGRAM"
	BRANCH CIRCUIT IN CONDUIT - SWITCH LEG, PHASE LEG, NEUTRAL, ISOLATED GROUND, AND EQUIPMENT GROUND INDICATED
	BRANCH CIRCUIT HOMERUN - PANEL AND CIRCUIT NUMBER INDICATED
	CONDUIT CONCEALED IN OR BELOW FLOOR SLAB OR BELOW GRADE
	EXISTING CONDUIT
	FLEXIBLE CONDUIT
	EMERGENCY CIRCUIT(S) (SHOWN WITH NON-ARCHED LINES)
	SURFACE MOUNTED PANELBOARD - SEE SCHEDULE
	FLUSH MOUNTED PANELBOARD - SEE SCHEDULE
	TELEPHONE TERMINAL BOARD 4"X8"X3/4" PLYWOOD PAINTED GREY
	GAS SHUTOFF SOLENOID. COORD W/GAS PIPING INSTALLER.
	CONTACTOR
	TIME CLOCK
	DOOR HOLD OPEN. POWER AND CONNECT TO SMOKE DETECTORS PER CODE.
	2X2 GRID MOUNTED CEILING SPEAKER FOR FIRE ALARM, INTERCOM PAGING 2X2 GRID MOUNTED CEILING SPEAKER FOR FIRE ALARM AND PAGING
	CCTV - PROVIDE CAMERA, CONNECTION AND DVR COMPLETE.
	6"DEEP, 24"WIDE FLEXTRAY WIRE MANAGEMENT SYSTEM - B-LINE #FT6X24X10 WALL HUNG IN CORRIDOR 18" BELOW DECK. #FTB24CT BRACKETS 5' O.C.
	THERMOSTAT - E.C. TO FURNISH & INSTALL BACKBOX & 1/2" CONDUIT TO ABOVE ACCESSIBLE CEILING & TERMINATE
	CCTV - PROVIDE CAMERA, CONNECTION AND DVR COMPLETE.
	INFRA RED SWITCH MOUNTED OCCUPANCY SENSOR - LUTRON #LOS-SIR
	ULTRASONIC/PIR SWITCH MOUNTED OCCUPANCY SENSOR - LUTRON #LOS-SDT
	SWITCH MOUNTED DIGITAL TIMER - INTERMATIC OR HMD
	CEILING MOUNTED BIDIRECTIONAL ULTRASONIC ONLY OCCUPANCY SENSOR LUTRON #LOS-CU2000
	CEILING MOUNTED BIDIRECTIONAL DUAL TECHNOLOGY OCCUPANCY SENSOR LUTRON #LOS-CU2000
	CEILING MOUNTED ULTRASONIC ONLY OCCUPANCY SENSOR LUTRON #LOS-US1000
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR LUTRON #LOS-CDU1000
	POWER PACK FOR OCCUPANCY SENSORS (MAX OF 1 PER 3 SENSORS) LUTRON #CU(VOLTS)A

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
	FIRE ALARM AUDIO/VISUAL DEVICE - NUMBER INDICATES INDICATES MINIMUM CANDELA RATING OF STROBE
	FIRE ALARM VISUAL ONLY ONLY DEVICE - NUMBER INDICATES MINIMUM CANDELA RATING OF STROBE
	FIRE ALARM DOUBLE ACTION PULL STATION
	HEAT DETECTOR
	SMOKE DETECTOR
	DUCT MOUNTED SMOKE DETECTOR
	FLOW SWITCH - FURNISHED BY OTHERS (VERIFY LOCATION AND QUANTITY)
	TAMPER SWITCH - FURNISHED BY OTHERS (VERIFY LOCATION AND QUANTITY)
	CARD READER or KEYPAD
	MAGNETIC DOOR LOCK
	EGRESS BUTTON (TO RELEASE MAGNETIC DOOR LOCK)
	EMERGENCY EGRESS BUTTON (DISCONNECTS POWER TO MAGNETIC DOOR LOCK)
	AC ABOVE COUNTER
	AFF ABOVE FINISH FLOOR
	AFG ABOVE FINISH GRADE
	BFC BELOW FINISH CEILING
	EP EXPLOSION PROOF
	EPO EMERGENCY POWER OFF
	GFI GROUND FAULT INTERRUPTING
	GRD GROUND
	IG ISOLATED GROUNDING
	MTD MOUNTED
	NFDS NON-FUSED DISCONNECT SWITCH
	OHE OVERHEAD ELECTRIC
	SDBC SOFT-DRAWN BARE COPPER
	SP SURGE PROTECTION
	TC TIME CLOCK
	USE UNDERGROUND ELECTRIC
	UON UNLESS OTHERWISE NOTED
	VFD VARIABLE FREQUENCY DRIVE
	WP WEATHERPROOF

**GENERAL NOTES**

- ALL WORK SHALL COMPLY WITH THE 2017 EDITION OF THE NATIONAL ELECTRIC CODE (N.E.C.) AS WELL AS THE LATEST CHAPTER 7 VERSION OF THE ARKANSAS DEPARTMENT OF EDUCATION FACILITY STANDARDS DESIGN MANUAL.
- THE SPECIFICATIONS ARE AS SHOWN ON THE CONTRACTOR AS THE DRAWINGS. THE CONTRACTOR SHALL READ THE SPECIFICATIONS AND SHALL INCLUDE ALL ITEMS REQUIRED BY THE SPECIFICATIONS BEFORE SUBMITTING A BID.
- MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS OTHERWISE NOTED. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS OTHERWISE NOTED. ALL CONDUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED. ALL CONDUIT IN OR BELOW FLOOR SLABS AND BELOW GRADE SHALL BE 1" MINIMUM UNLESS OTHERWISE NOTED.
- EACH CIRCUIT SHALL HAVE AN EQUIPMENT GROUNDING CONDUCTOR. MULTI-WIRE CIRCUITS FOR SINGLE PHASE LOADS SHALL NOT SHARE NEUTRALS. EACH SINGLE PHASE 120V OR 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR PER PHASE. MINIMUM EQUIPMENT GROUND AND NEUTRAL SHALL BE #12AWG COPPER.
- ALL CONDUCTORS #10 AND SMALLER SHALL BE SOLID COPPER, EXCEPT WHERE FLEXIBILITY IS REQUIRED, AND ALL CONDUCTORS #8 AND LARGER SHALL BE STRANDED COPPER USING BOLTED LUGS AT TERMINALS.
- ALL ELECTRICAL EQUIPMENT (CONDUIT, BOXES, SUPPORTS, ETC.) INSTALLED IN EXPOSED CEILING AREAS SHALL BE PAINTED AS DIRECTED BY THE ARCHITECT.
- PVC CONDUIT IS NOT ALLOWED EXCEPT FOR UNDERGROUND SERVICE FEEDERS ENCASED IN 3" OF CONCRETE. ELBOWS AND RISERS TO 6" ABOVE FLOOR TO BE RGS.
- THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE WITH MECHANICAL & PLUMBING CONTRACTORS FOR EXACT LOCATION AND EQUIPMENT CONNECTIONS OF ALL PLUMBING AND MECHANICAL EQUIPMENT SCHEDULED ELSEWHERE ON DRAWINGS.
- BRANCH CIRCUITS TO 5 HORSEPOWER AND LARGER THREE PHASE MOTORS SHALL BE PROVIDED WITH PHASE LOSS PROTECTION. PHASE LOSS SHALL BE INTEGRAL TO DRIVES AND/OR STARTERS SERVING MOTOR.

**GENERAL NOTES**

- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZING OF ALL MOTOR OVERLOAD DEVICES (HEATERS) IN STARTERS BASED ON ACTUAL NAMEPLATE RATINGS ON THE MOTORS BEING INSTALLED PER N.E.C. 430.6(A)(2).
- ALL LOW VOLTAGE INTERLOCKING OF HVAC EQUIPMENT SHALL BE BY THE CONTROLS CONTRACTOR. ALL OTHER "LINE AND LOW VOLTAGE" WIRING SHALL BE BY ELECTRICAL CONTRACTOR AND SHALL BE IN CONDUIT. COORD. WITH OTHER TRADES.
- TELE/DATA OUTLETS AS INDICATED IN LEGEND ARE TO BE INSTALLED AND CONNECTED AS PER INDUSTRY STANDARD AND IN ACCORDANCE WITH OWNER'S IT DEPARTMENT. COORDINATE ALL EQUIPMENT SELECTION, CABLE ROUTING, CABLE MANAGEMENT AND LABELING WITH IT DEPARTMENT PRIOR TO BEGINNING WORK.
- MOUNTING HEIGHT ABOVE FLOOR TO BOTTOM OF DEVICE OUTLET BOX SHALL BE AS FOLLOWS FOR RECEPTACLES, MICROPHONE OUTLETS, TELEPHONE, TELEVISION AND COMPUTER OUTLETS SHOWN ON PLANS UNLESS NOTED OTHERWISE:
 

GENERAL THROUGHOUT	18"
MECHANICAL EQUIPMENT ROOMS	52"
ABOVE COUNTER TOPS	30" H
	36" H
	44" H
	36" H
	48" H
	52"
ABOVE BACKSPASH TOP	2" MINIMUM
ABOVE RADATORS	6" MINIMUM
ABOVE OR ADJACENT TO LAVATORIES	44"
BEHIND DOMESTIC REFRIGERATORS	52"
BEHIND DOMESTIC WASHERS/DRYERS	36"
SERVING DOMESTIC DISHWASHERS	36"
WALL MOUNTED TELEPHONES	44"
TOGGLE SWITCHES	48"
FULL STATIONS (FIRE ALARM)	44"
CALL STATIONS (INTERCOM)	44"
HORN/STROBES (FIRE ALARM)	80"
- CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND SECURE A FULL SET OF CONTRACT DOCUMENTS TO ENSURE COMPLETE ELECTRICAL BID PACKAGE.

LIGHT FIXTURE SCHEDULE									
TYPE	MANUFACTURER	CATALOG NO.	VOLTS	LAMPS		REMARKS			
				QTY	TYPE				
A	COLUMBIA LTG	# LCAT24-35-HLG-EDU	120V	1	44W LED 35K	HIGH LUMEN RECESSED CONTEMPORARY ARCHITECTURAL DIRECT/INDIRECT LED TROFFER WITH 35K COLOR TEMPERATURE RECESSED IN GRID.			
AE	COLUMBIA LTG	# LCAT24-35-HLG-EDU-ELL14	120V	1	44W LED 35K	HIGH LUMEN RECESSED CONTEMPORARY ARCHITECTURAL DIRECT/INDIRECT LED TROFFER WITH 35K COLOR TEMPERATURE RECESSED IN GRID WITH EMERGENCY BATTERY BACKUP DRIVER.			
B	LUMENWERX	# R1MSP-48-UL0-LED-90-L5100LM-35-UNW-D1-1-SCD -FJB-FINISH-POC-48-FINISH	120V	1	66W LED 35K	PENDANT MOUNTED DECORATIVE 4' SQUARE LED FIXTURE WITH CUSTOM FINISH TO BE DETERMINED BY OWNER.			
C	COLUMBIA LTG	# LT24-35VL6-PSA12125-EDU-G3	120V	1	59W LED 35K	RECESSED GRID MOUNTED 2X4 LED ROFFER WITH TRIPLE GASKETING.			
CE	COLUMBIA LTG	# LT24-35VL6-PSA12125-EDU-G3-ELL14	120V	1	59W LED 35K	RECESSED GRID MOUNTED 2X4 LED ROFFER WITH TRIPLE GASKETING AND EMERGENCY BATTERY BACKUP DRIVER.			
D	COLUMBIA LTG	# MPS4-35ML-CW-EDU-MPSCE	120V	1	40W LED 35K	4' SURFACE MOUNTED LED STRIP LIGHT WITH ROUND FROSTED ACRYLIC LENS AND CURVED ENDCAPS. SURFACE MOUNT AT CEILING.			
EM	COMPASS	#CU2	120V	-	INCLUDED	DUAL HEAD WALL MOUNTED EMERGENCY EGRESS LIGHT FIXTURE. MOUNT AT 7'-6" AFF			
EMW	COMPASS	#CU2SO	120V	-	INCLUDED	EXTERIOR EMERGENCY EGRESS LIGHT FIXTURE MOUNTED OVER EXIT DOOR.			
H	PRESCOLITE	# LC4SL-4LCSL18L3K8WH	120V	1	18W LED 35K	4" APERTURE LED CAN LIGHT WITH STANDARD CLEAR ALZAK REFLECTOR SUITABLE FOR DAMP LOCATION LISTING.			
K	COLUMBIA LTG	# CWM2-35-MM-SM-FR-FA-EDU	120V	1	17W LED 35K	WALL MOUNTED 2' VANITY LED FIXTURE WITH ALUMINUM END CAPS. MOUNT OVER MIRROR.			
L	HUBBELL LTG	# TRP2-D-50-4KT-FT-UNW-X	120V	1	50W LED 40K	WALL MOUNTED LED SECURITY WALLPACK MOUNTED AT 12' AFF.			
N	BEGA	# 68979-K4-CTBS	120V	1	16W LED 40K	SURFACE MOUNTED ROUND LED WITH FLOOD BEAM OPTICS MOUNTED TO UNDERSIDE OF CANOPY. COORDINATE WITH ARCHITECT/STRUCTURAL ENGINEER.			
X	COMPASS	# CCESR6	120V	1	LED	BATTERY BACKUP LED EXIT LIGHT MOUNTED OVER DOOR OR FROM CEILING ABOVE.			

**LIGHT FIXTURE SCHEDULE NOTES:**

- CONTRACTOR SHALL PROVIDE AND INSTALL LIGHT FIXTURES AS NOTED IN SCHEDULE ABOVE. ALTERNATE LIGHT FIXTURE SELECTIONS WILL ONLY BE CONSIDERED WHEN PRESENTED TO THE ENGINEER AS A DEDUCTIVE ALTERNATE NO LATER THAN 10 DAYS PRIOR TO BID TO ALLOW TIME FOR REVIEW AND INCLUSION INTO ADDENDUM FOR ALL BIDDING CONTRACTORS CONSIDERATION. SUBSTITUTIONS PRESENTED WITHOUT PRIOR APPROVAL WILL BE REJECTED UNLESS PRESENTED DUE TO DELIVERY OR PRODUCTIONS DELAYS.
- CONTRACTOR SHALL COORDINATE MOUNTING REQUIREMENTS FOR ALL FIXTURES PRIOR TO ORDERING TO ENSURE FIXTURES ARE PROVIDED WITH PROPER BRACING AND MOUNTING HARDWARE REQUIRED BY ACTUAL FIELD CONDITIONS.

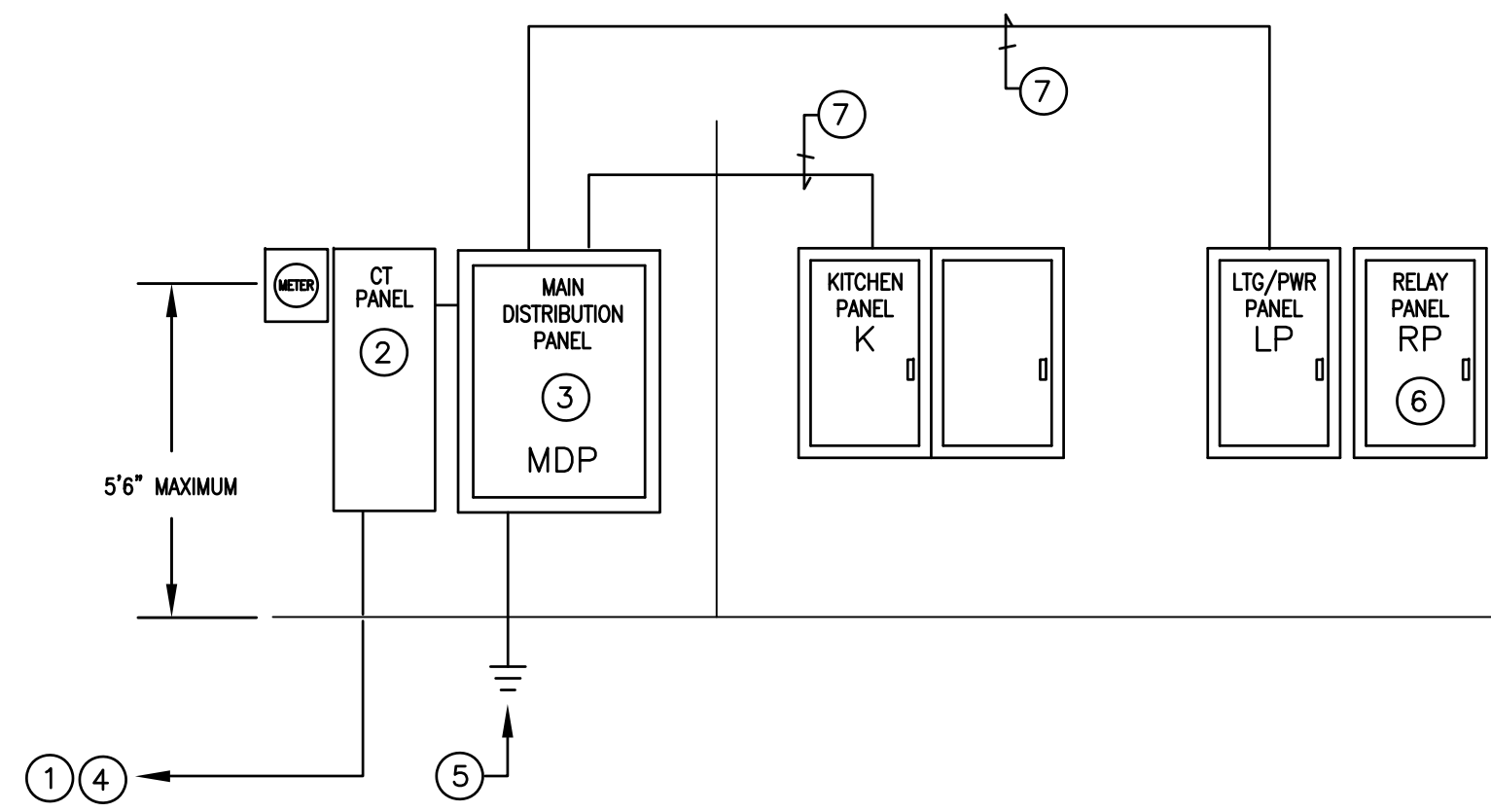






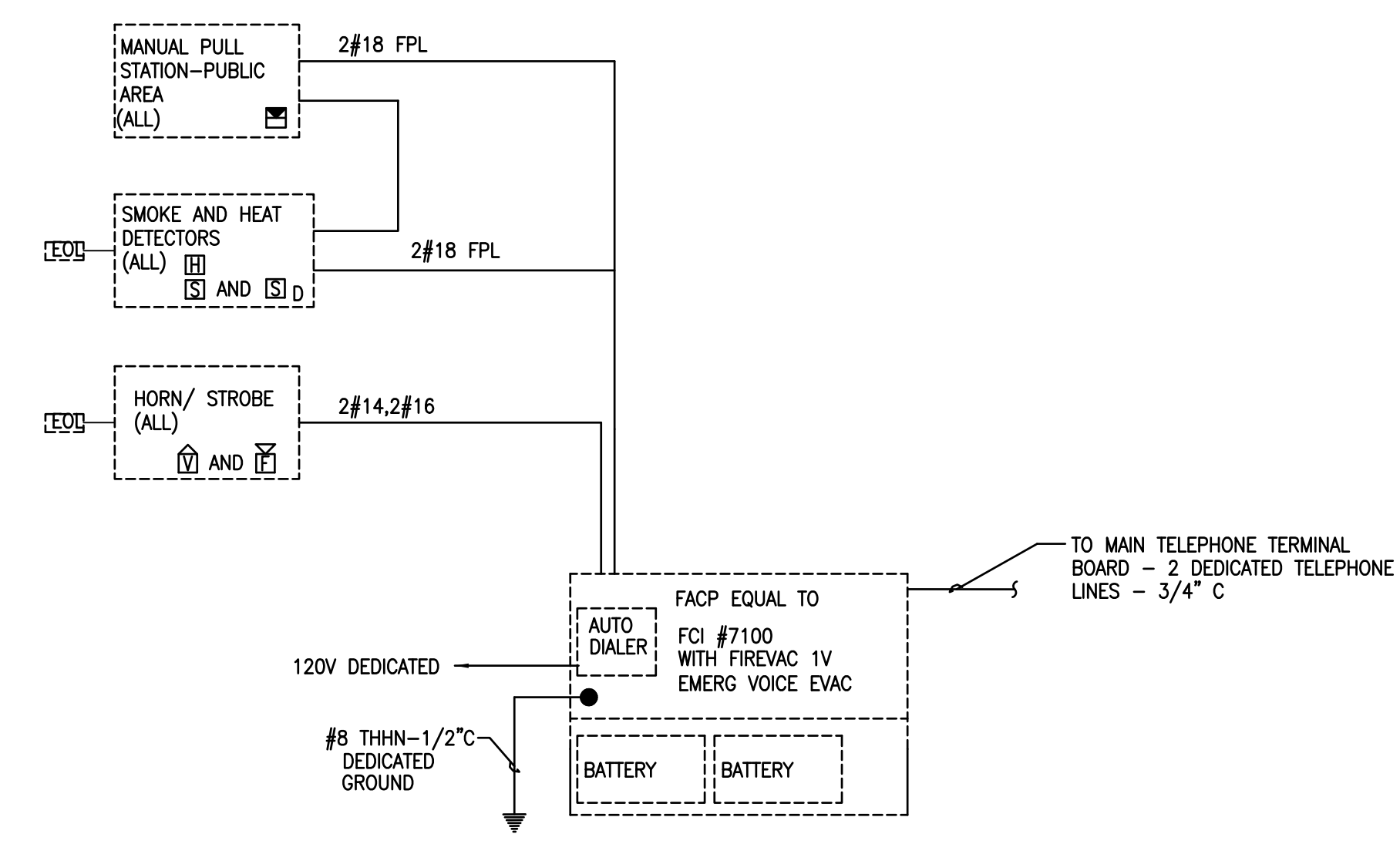






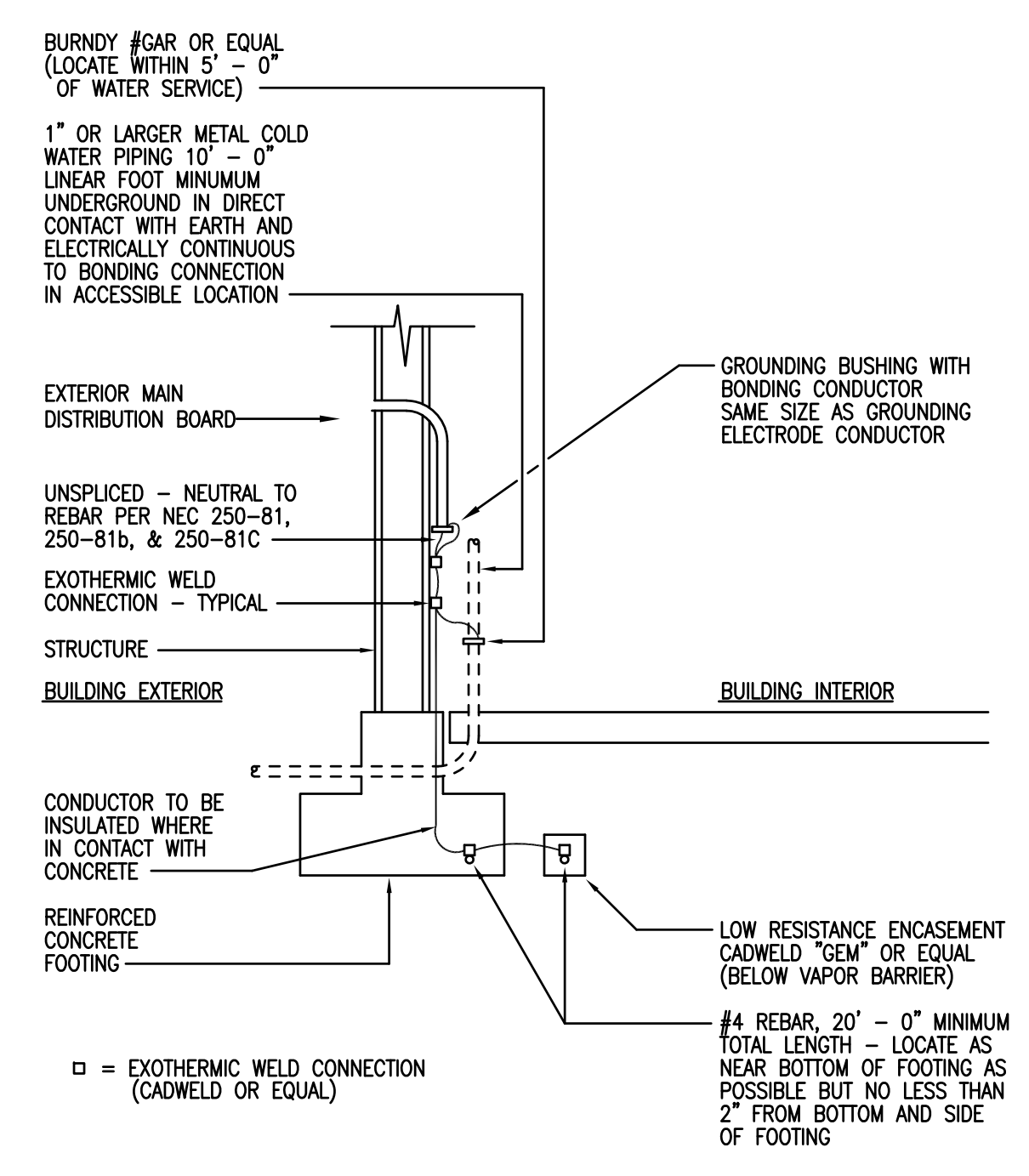
- 1 TO PAD MOUNTED UTILITY TRANSFORMER. COORDINATE WITH SERVICE PROVIDER. ADDITIONAL SECONDARY ENCLOSURE MAY BE REQUIRED AT THE TRANSFORMER.
- 2 CT'S AND CABINET PER UTILITY STANDARDS. COORDINATE WITH PROVIDER.
- 3 800A, 208V, 3 PHASE SERVICE ENTRANCE RATED, LOCKABLE, WEATHERPROOF, MAIN DISTRIBUTION PANEL. SEE SCHEDULE THIS SHEET.
- 4 2 SETS: (4) #600 KCMIL, 1#3/0G IN 4" CONDUIT. TRENCH PER UTILITY STANDARDS.
- 5 #3/0 SERVICE ENTRANCE GROUND - REFER TO SERVICE ENTRANCE GROUNDING DETAILS THIS SHEET.
- 6 WATTSTOPPER #LMCP8 RELAY PANEL FOR CONTROL OF INTERIOR AND EXTERIOR LIGHTING. SEE VENDOR DRAWINGS FOR CONNECTION REQUIREMENTS.

**1 ELECTRICAL RISER DIAGRAM**  
SCALE: NONE



- NOTES:
1. FPL MEANS FIRE PROTECTION POWER LIMITED
  2. CL-2 MEANS LOW VOLTAGE WIRING LESS THAN 50 VOLTS
  3. (EACH) MEANS EACH DEVICE IN THE SYSTEM
  4. (ALL) MEANS ALL DEVICES IN THE SYSTEM POWER LIMITED.

**2 FIRE ALARM RISER DIAGRAM**  
SCALE: NONE



**3 SERVICE ENTRANCE GROUNDING DETAIL**  
SCALE: NONE

**"K" SECT 1 OF 2** SERVICE: 120/208 VOLTS 3 PHASE 4 WIRE 60 HZ MAINS: 400A MLO  
MOUNTED: SURFACE BRACED: 22 KAC FEED FROM: MDP  
REMARKS: W/ SEPERATE GROUND BUS

CIRCUIT	SERVES	CONTROL FUNCTION (WHERE REQUIRED)	LOAD (VA)			CIRCUIT BRKR. TRIP/POLES	LOAD (VA)			CONTROL FUNCTION (WHERE REQUIRED)	SERVES	CIRCUIT
			PH A	PH B	PH C		PH A	PH B	PH C			
1	WALK IN DOOR/LTS		1680			20/1	1200				KITCHEN LIGHTING	2
3	COOLER EVAP		240			20/1			900		MISC. CONV. RECEPTACLES	4
5	FREEZER EVAP		1080		1080	20/2			900		MISC. CONV. RECEPTACLES	6
7	2#12, #12G, 3/4"					20/1	900				MISC. CONV. RECEPTACLES	8
9	COOLER COMPRESSOR		840			20/3			900		MISC. CONV. RECEPTACLES	10
11	3#12, #12G, 3/4"		840			20/1			900		MISC. CONV. RECEPTACLES	12
13	---		840			20/1			900		MISC. CONV. RECEPTACLES	14
15	FREEZER COMPRESSOR		1680			20/3			900		MISC. CONV. RECEPTACLES	16
17	3#10, #12G, 3/4"		1680			20/2			1200		MIXER	18
19	---		1680			20/2	1200				2#12, #12G, 3/4"	20
21	ICE MAKER		1800			20/1		1920			PROOFER	22
23	DISPOSAL			1320		20/1			1920		2#10, #12G, 3/4"	24
25	MILK COOLER		1000			20/1	1200				HOOD LIGHTS	26
27	MILK COOLER		1000			20/1					SPARE	28
28	HOT FOOD			2400		40/2					SPARE	30
31	2#8, #10G, 3/4"		2400			20/1	1000				REFRIGERATOR	32
33	MICROWAVE		1900			20/1					SPARE	34
35	WASHER		1200			20/1		1500			HEATED CABINET	36
37	DRYER		2550			30/2		1500			2#12, #12G, 3/4"	38
39	3#10, #12G, 3/4"		2550			20/2		1500			HEATED CABINET	40
41	SPARE					20/1			1500		2#12, #12G, 3/4"	42

**"K" SECT 2 OF 2** SERVICE: 120/208 VOLTS 3 PHASE 4 WIRE 60 HZ MAINS: 400A MLO  
MOUNTED: SURFACE BRACED: 22 KAC FEED FROM: SECT 1  
REMARKS: W/ SEPERATE GROUND BUS

CIRCUIT	SERVES	CONTROL FUNCTION (WHERE REQUIRED)	LOAD (VA)			CIRCUIT BRKR. TRIP/POLES	LOAD (VA)			CONTROL FUNCTION (WHERE REQUIRED)	SERVES	CIRCUIT
			PH A	PH B	PH C		PH A	PH B	PH C			
43	FRYER/RANGE/BRAISING PAN		1440			20/1	900				MISC. CONV. RECEPTACLES	44
45	MIXER		1000			20/1			900		MISC. CONV. RECEPTACLES	46
47	SLICER			1000		20/1			900		MISC. CONV. RECEPTACLES	48
49	CASHER		1200			20/1	900				MISC. CONV. RECEPTACLES	50
51	SPARE					20/1					SPARE	52
53	HAND SINKS			1500		20/1					SPARE	54
55	COFFEE		1920			20/1					SPARE	56
57	REFRIGERATOR		1500			20/1		1440			HEATED MERCHANDISER	58
59	JUICE		1200			20/1		1440			HEATED MERCHANDISER	60
61	ICE MACHINE		1200			20/1		2000			HEATED MERCHANDISER	62
63	HOT FOOD WELL		2400			40/2		2000			2#10, #12G, 3/4"	64
65	2#8, #12G, 3/4"		2400			20/1			528		DEF-1	66
67	JUICE		1200			20/1	732				KEF-1	68
69	JUICE		1200			20/1		732			3#12, #12G, 3/4"	70
71	DISPOSAL			1200		20/2			732		---	72
73	2#12, #12G, 3/4"		1200			20/3	732				KEF-2	74
75	EXTERIOR RECEPTACLES			900		20/1			732		3#12, #12G, 3/4"	76
77	FACP			400		20/1			732		---	78
79	SPARE					30/3	1800				MUA-1	80
81	HWCP-1		750			20/1		1800			3#10, #12G, 3/4"	82
83	HWCP-2			750		20/1		1800			---	84

\*\* - COORDINATE WITH VENDOR WHICH CIRCUITS REQUIRE SHUNT TRIP CIRCUIT BREAKERS CONTROLLED BY ANSUL SYSTEM. PROVIDE COMPLETE.

**"LP" SECT 1 OF 1** SERVICE: 120/208 VOLTS 3 PHASE 4 WIRE 60 HZ MAINS: 225A MLO  
MOUNTED: SURFACE BRACED: 22 KAC FEED FROM: MDP  
REMARKS: W/ SEPERATE GROUND BUS

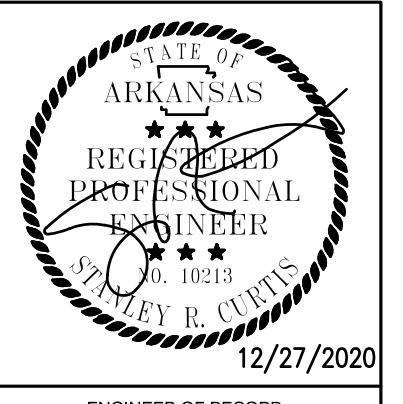
CIRCUIT	SERVES	CONTROL FUNCTION (WHERE REQUIRED)	LOAD (VA)			CIRCUIT BRKR. TRIP/POLES	LOAD (VA)			CONTROL FUNCTION (WHERE REQUIRED)	SERVES	CIRCUIT
			PH A	PH B	PH C		PH A	PH B	PH C			
1	SAFE ROOM LIGHTING				650	20/1			900		MISC. CAFETERIA RECEIPTS	2
3	SAFE ROOM LIGHTING				750	20/1			900		MISC. CAFETERIA RECEIPTS	4
5	DINING LIGHTING				1000	20/1			900		MISC. CAFETERIA RECEIPTS	6
7	DINING DECORATIVE LTG			200		20/1	900				MISC. CAFETERIA RECEIPTS	8
9	EXTERIOR WALLPACKS				700	20/1			900		MISC. CAFETERIA RECEIPTS	10
11	SPARE					20/1			900		MISC. CAFETERIA RECEIPTS	12
13	SPARE					20/1			900		MISC. CAFETERIA RECEIPTS	14
15	SPARE					20/1			900		MISC. CAFETERIA RECEIPTS	16
17	EXT/EMERG/NGHT LTG	LOCK ON			400	20/1			900		MISC. CAFETERIA RECEIPTS	18
19	SPARE					20/1			900		MISC. CAFETERIA RECEIPTS	20
21	CU-1				1600	20/1					OH PROJECTOR	22
23	2#12, #12G, 3/4"					20/1					SPARE	24
25	CU-2				3200	45/2					SPARE	26
27	2#8, #10G, 3/4"				3200	20/1					SPARE	28
29	F-1				1200	15/1					SPARE	30
31	F-2				1500	20/1					SPARE	32
33	SPARE					20/1					SPARE	34
35	SPARE					20/1					SPARE	36
37	SPARE					20/1					SPARE	38
39	SPARE					20/1			1500		WI-2	40
41	SPARE					20/1			1500		2#12, #12G, 3/4"	42

**MAIN DISTRIBUTION PANEL "MDP"**

DESCRIPTION:  
800 AMP BUS, 208Y/120V, 3-PHASE, 4-WIRE WITH SOLID NEUTRAL, EQUIPMENT GROUND BUS, 800 AMP MAIN CIRCUIT BREAKER WITH INTEGRAL 360K TVSS MOUNTED IN NEMA 3R ENCLOSURE WITH A MINIMUM SHORT CIRCUIT RATING OF PANEL & BREAKERS OF 35,000 AMPS RMS SYMMETRICAL. SQUARE D OR EATON ONLY.

CIRCUIT	SERVES	CONN. LOAD KVA	POLE	FRAME	TRIP	WIRE & CONDUIT SIZES	
1	DISHWASHER AUX HEATER	30	3	200A	110A	3#1, #6, 1-1/4"	
2	UTILITY DISTRIBUTION UNIT	25	3	100A	100A	4#1, #6G, 1-1/2"	
3	PANEL "K"	105	3	400	400A	2 SETS: 4#3/0, #3G, 2" (EA)	
4	PANEL "LP"	25	3	200	225A	4#4/0, #4G, 2-1/2"	
5	RTU-1	7	3	30	25A	3#10, #12, 3/4"	
6	RTU-2		10	3	60	35A	3#10, #12, 3/4"
7	RTU-3	30	3	200	110A	3#1, #6, 1-1/4"	
8	DISHWASHER	20	3	100	80A	3#4, #8, 1"	
9	SPARE						
10	SPARE						
TOTAL CONNECTED LOAD (KVA)		252					

\*\* - COORDINATE WITH VENDOR WHICH CIRCUITS REQUIRE SHUNT TRIP CIRCUIT BREAKERS CONTROLLED BY ANSUL SYSTEM. PROVIDE COMPLETE.



**CAFETERIA AND MULTI-PURPOSE ROOM**  
Project Number: 1920-3809-001  
FOR HILLCREST SCHOOL DISTRICT  
HILLCREST SCHOOLS, STRAWBERRY ARKANSAS CAMPUS

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ISSUE DATE: 12/27/2020

NO.	DATE

ELECTRICAL DETAILS/RISERS/SCHEDULES