

**MOORE PUBLIC SCHOOLS -  
HIGHLAND EAST JUNIOR HIGH SCHOOL –  
STEM ADDITION**

Moore Public Schools - Moore, Oklahoma  
AGP - Moore, Oklahoma

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**CONSTRUCTION BULLETIN NO. 1**

March 10, 2022

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1. REVISE RESTROOMS AS PER ATTACHED DRAWINGS.

END OF CONSTRUCTION BULLETIN NO. 1



CJC

drawn by

BWB

checked by

SEPTEMBER 2021

date

revisions

CB#1 03/08/2022

MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA



MOORE Public Schools  
LEARNING FOR LIFE

CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

**S201**

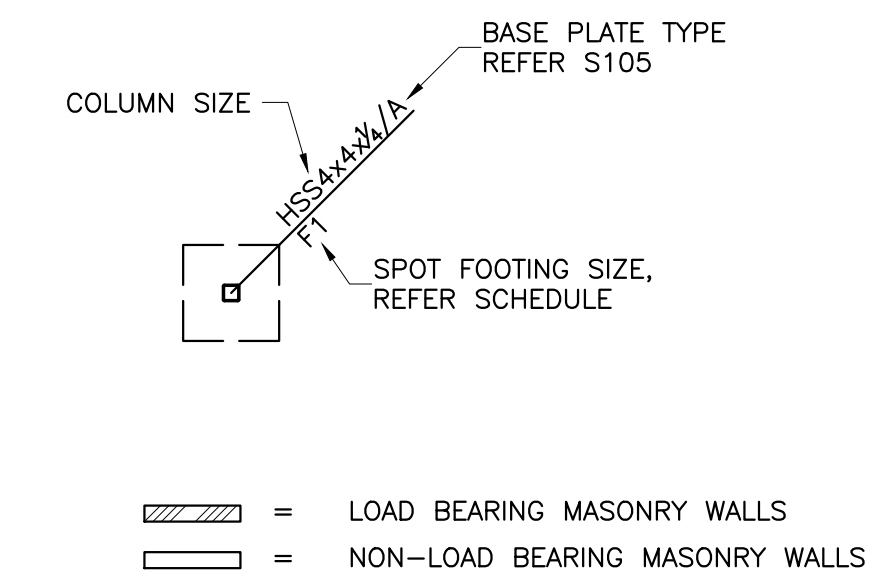
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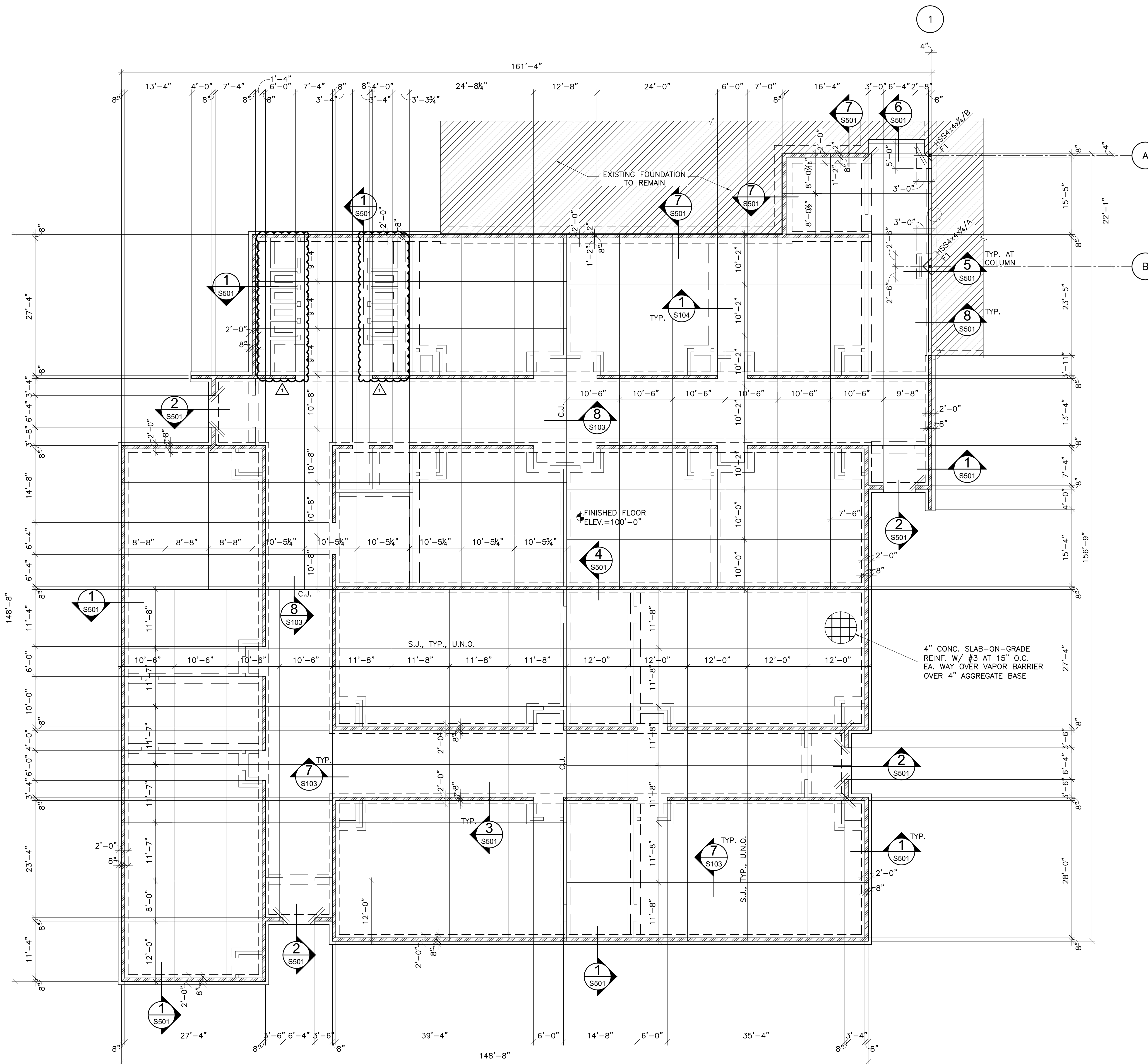
**FOUNDATION PLAN LEGEND:**



**FOUNDATION PLAN NOTES:**

- FOUNDATION AND SLAB SUBGRADE SHALL BE PREPARED AS OUTLINED IN THE STRUCTURAL GENERAL NOTES.
- REFERENCE ELEVATION OF 100'-0" EQUALS DATUM FINISHED FLOOR ELEVATION OF 1242.48 FEET FOR THE NEW BUILDING.
- EXCEPT WHERE SHOWN OTHERWISE, SLABS-ON-GRADE SHALL BE 4" THICK CONCRETE REINFORCED WITH #3 BARS AT 15" ON CENTER EACH WAY OVER A 15 MIL VAPOR RETARDER OVER A 4" AGGREGATE BASE COURSE. REINFORCING BARS SHALL BE PLACED 15" CLEAR FROM TOP OF SLAB USING CHAIRS OR SLAB BOLSTERS COMPLYING WITH CRSI'S "MANUAL OF STANDARD PRACTICE".
- SLABS-ON-GRADE SHALL BE WATER CURED FOR A MINIMUM OF 7 DAYS BY PONDING, SPRAYING, SPRINKLING OR BY USE OF SATURATED COVERINGS. THE USE OF CURING COMPOUNDS FOR SLABS-ON-GRADE IS PROHIBITED.
- SAWED JOINTS (S.J.) AND REQUIRED CONSTRUCTION JOINTS (C.J.) ARE SHOWN ON THE DRAWINGS. AT THE CONTRACTOR'S OPTION, ADDITIONAL CONSTRUCTION JOINTS MAY BE PLACED AT LOCATIONS INDICATED TO BE SAWED JOINTS.
- // INDICATES (2)#4 BARSx4'-0" TO BE PLACED IN SLAB-ON-GRADE AT ALL RE-ENTRANT CORNERS. RE-ENTRANT CORNERS ARE DEFINED AS INTERIOR CORNERS WHERE JOINTS DO NOT OCCUR IN BOTH DIRECTIONS. SIMILAR BARS SHALL BE PLACED AT ANY DISCONTINUOUS ENDS OF SAWED JOINTS OR CONSTRUCTION JOINTS.
- REFER MECHANICAL FOR FLOOR DRAIN (F.D.) INFORMATION.

MARK	SIZE			REINFORCEMENT
	WIDTH	LENGTH	DEPTH	
F1	3'-0"	5'-0"	2'-0"	(4) #5 LONG. TOP AND BOTTOM (6) #5 TRANS. TOP AND BOTTOM



**1 FOUNDATION PLAN**  
S201 SCALE: 3/32"=1'-0"





**CONSTRUCTION DATA (TABLE 504.4):**  
OCCUPANCY - E  
CONSTRUCTION TYPE - TYPE II - B  
BASIC ALLOWABLE AREA - 58,000 S.F. SPRINKLED ONE STORY  
ALLOWABLE STORIES - 3  
ACTUAL STORIES - 1  
ACTUAL HEIGHT - 16'-8"

**BUILDING SIZES:**  
ADDITION: 1 STORY @ 21,582 S.F.

**STRUCTURAL FIRE PROTECTION (TABLE 601):**  
EXTERIOR BEARING WALLS 0 HOUR  
INTERIOR BEARING WALLS NONCOMBUSTIBLE  
EXTERIOR NONBEARING WALLS NONCOMBUSTIBLE  
COLUMNS 0 HOUR  
BEAMS 0 HOUR  
PERMANENT PARTITIONS NONCOMBUSTIBLE  
FLOOR ASSEMBLIES 0 HOUR  
ROOF ASSEMBLIES 0 HOUR  
EXTERIOR OPENINGS N/A

**PASSIVE FIRE SAFETY SYSTEM:**  
PORTABLE FIRE EXTINGUISHERS (RE: SHEETS A108)  
TRAVEL DISTANCE = 250'-0" MAX.  
DEADEND - 50'-0" MAX.  
ACTUAL DEADEND - 40'-0" FROM ROOM #33 TO EXISTING

**ACTIVE FIRE SAFETY SYSTEMS THROUGHOUT NEW ADDITION & EXISTING BUILDING(S):**  
FIRE SPRINKLER SYSTEM  
FIRE ALARM SYSTEM  
SMOKE DETECTION  
AUTOMATIC AIR HANDLING EQUIP. SHUTDOWN  
EXIT LIGHTS/EMERGENCY LIGHTS BATTERY

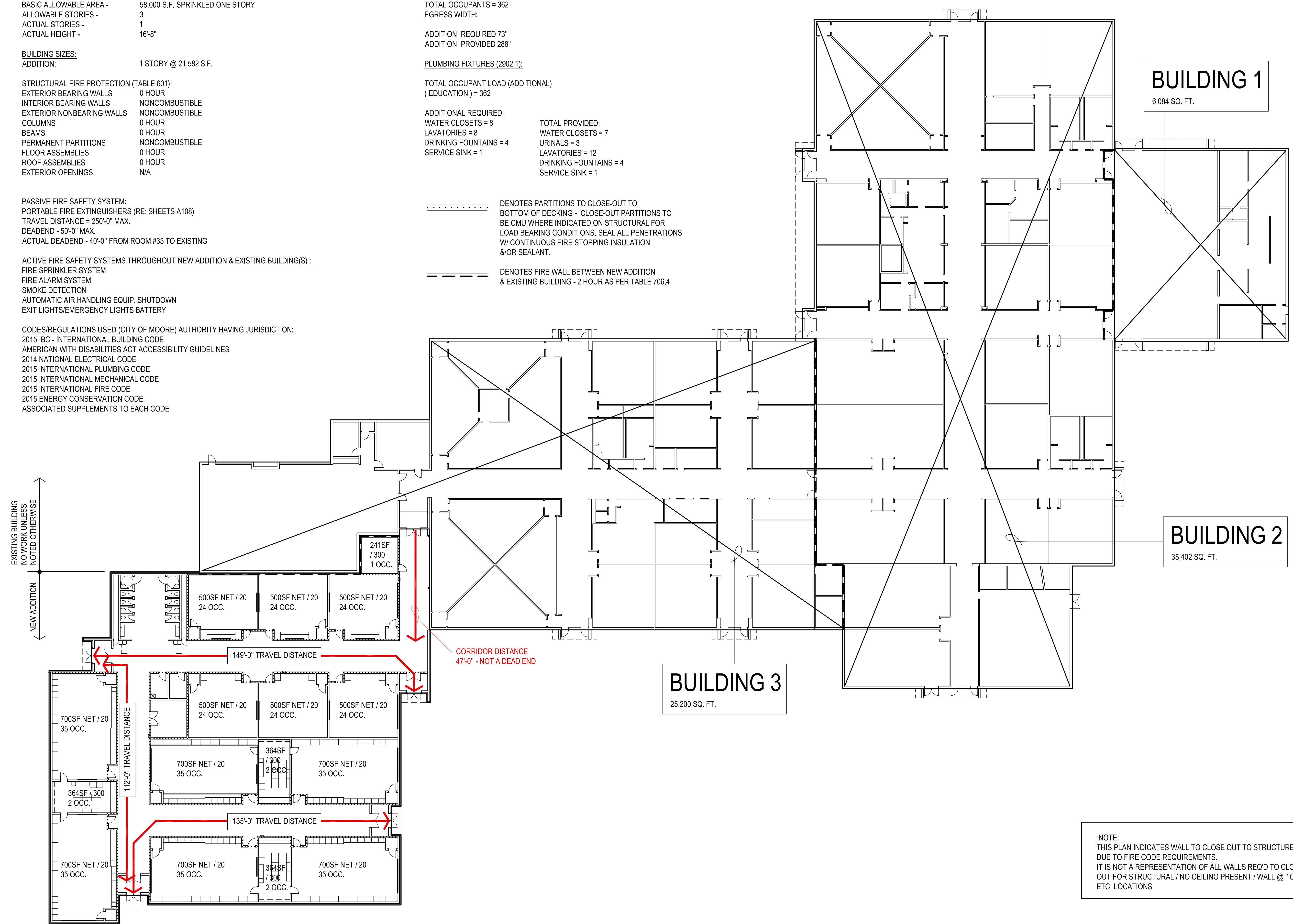
**CODES/REGULATIONS USED (CITY OF MOORE) AUTHORITY HAVING JURISDICTION:**  
2015 IBC - INTERNATIONAL BUILDING CODE  
AMERICAN WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES  
2014 NATIONAL ELECTRICAL CODE  
2015 INTERNATIONAL PLUMBING CODE  
2015 INTERNATIONAL MECHANICAL CODE  
2015 INTERNATIONAL FIRE CODE  
2015 ENERGY CONSERVATION CODE  
ASSOCIATED SUPPLEMENTS TO EACH CODE

**OCCUPANT LOAD (TABLE 1004.1.2):**  
CLASSROOM AREA NET 7,080 S.F. / 20 NET = 354 OCCUPANTS  
STORAGE AREA 2,143 / 300 = 8 OCCUPANTS  
TOTAL OCCUPANTS = 362  
EGRESS WIDTH:  
ADDITION: REQUIRED 73"  
ADDITION: PROVIDED 288"

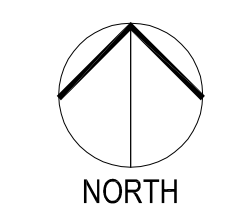
**PLUMBING FIXTURES (2902.1):**  
TOTAL OCCUPANT LOAD (ADDITIONAL)  
( EDUCATION ) = 362

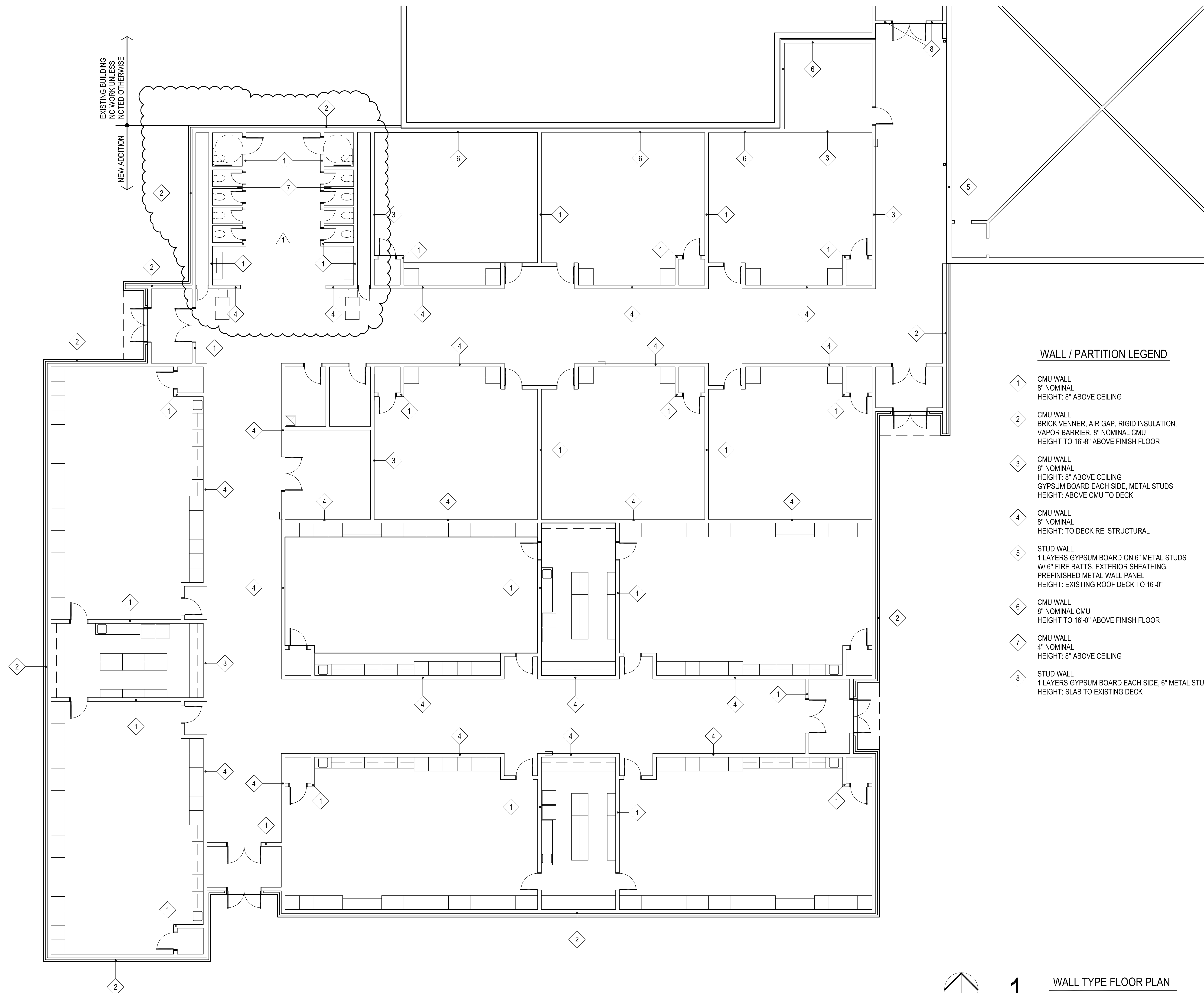
**ADDITIONAL REQUIRED:**  
WATER CLOSETS = 8  
LAVATORIES = 8  
DRINKING FOUNTAINS = 4  
SERVICE SINK = 1  
**TOTAL PROVIDED:**  
WATER CLOSETS = 7  
URINALS = 3  
LAVATORIES = 12  
DRINKING FOUNTAINS = 4  
SERVICE SINK = 1

..... DENOTES PARTITIONS TO CLOSE-OUT TO BOTTOM OF DECKING - CLOSE-OUT PARTITIONS TO BE CMU WHERE INDICATED ON STRUCTURAL FOR LOAD BEARING CONDITIONS. SEAL ALL PENETRATIONS W/ CONTINUOUS FIRE STOPPING INSULATION &/OR SEALANT.  
==== DENOTES FIRE WALL BETWEEN NEW ADDITION & EXISTING BUILDING - 2 HOUR AS PER TABLE 706.4



**NOTE:**  
THIS PLAN INDICATES WALL TO CLOSE OUT TO STRUCTURE DUE TO FIRE CODE REQUIREMENTS. IT IS NOT A REPRESENTATION OF ALL WALLS REQ'D TO CLOSE OUT FOR STRUCTURAL / NO CEILING PRESENT / WALL @ "CLOUDS" ETC. LOCATIONS





EXISTING BUILDING  
NO WORK UNLESS  
NOTED OTHERWISE

NEW ADDITION

**WALL / PARTITION LEGEND**

- 1 CMU WALL  
8" NOMINAL  
HEIGHT: 8" ABOVE CEILING
- 2 CMU WALL  
BRICK VENNER, AIR GAP, RIGID INSULATION,  
VAPOR BARRIER, 8" NOMINAL CMU  
HEIGHT TO 16'-8" ABOVE FINISH FLOOR
- 3 CMU WALL  
8" NOMINAL  
HEIGHT: 8" ABOVE CEILING  
GYPSUM BOARD EACH SIDE, METAL STUDS  
HEIGHT: ABOVE CMU TO DECK
- 4 CMU WALL  
8" NOMINAL  
HEIGHT: TO DECK RE: STRUCTURAL
- 5 STUD WALL  
1 LAYERS GYPSUM BOARD ON 6" METAL STUDS  
W/ 6" FIRE BATTS, EXTERIOR SHEATHING,  
PREFINISHED METAL WALL PANEL  
HEIGHT: EXISTING ROOF DECK TO 16'-0"
- 6 CMU WALL  
8" NOMINAL CMU  
HEIGHT TO 16'-0" ABOVE FINISH FLOOR
- 7 CMU WALL  
4" NOMINAL  
HEIGHT: 8" ABOVE CEILING
- 8 STUD WALL  
1 LAYERS GYPSUM BOARD EACH SIDE, 6" METAL STUDS  
HEIGHT: SLAB TO EXISTING DECK



CG  
drawn by

MA  
checked by

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date

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1 CB#1 2-18-22

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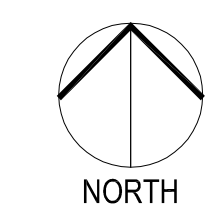


CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

Sheet no:

**A102**

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**1**

**WALL TYPE FLOOR PLAN**  
1/8" = 1'-0"





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①	ADDENDUM #1
②	CB#1 2-18-22

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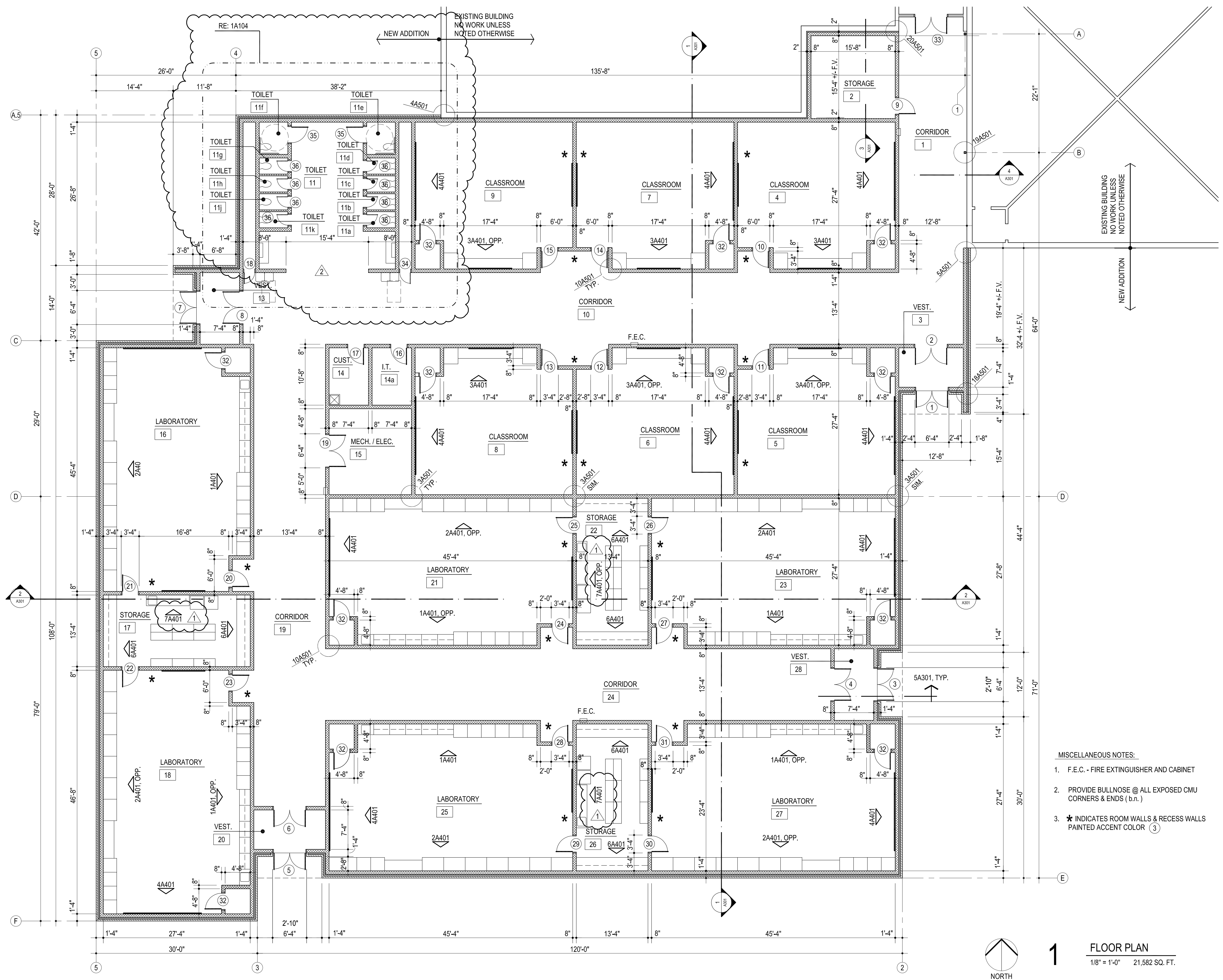


**CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL**

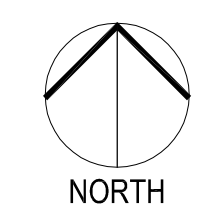
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- MISCELLANEOUS NOTES:
- F.E.C. - FIRE EXTINGUISHER AND CABINET
  - PROVIDE BULLNOSE @ ALL EXPOSED CMU CORNERS & ENDS (b.n.)
  - \* INDICATES ROOM WALLS & RECESS WALLS PAINTED ACCENT COLOR ③



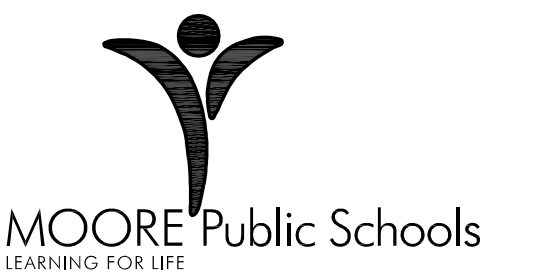
**1**

**FLOOR PLAN**  
1/8" = 1'-0" 21,582 SQ. FT.



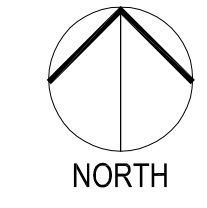
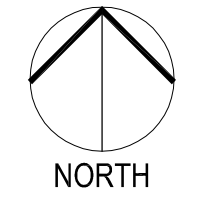
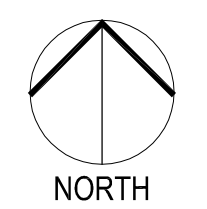
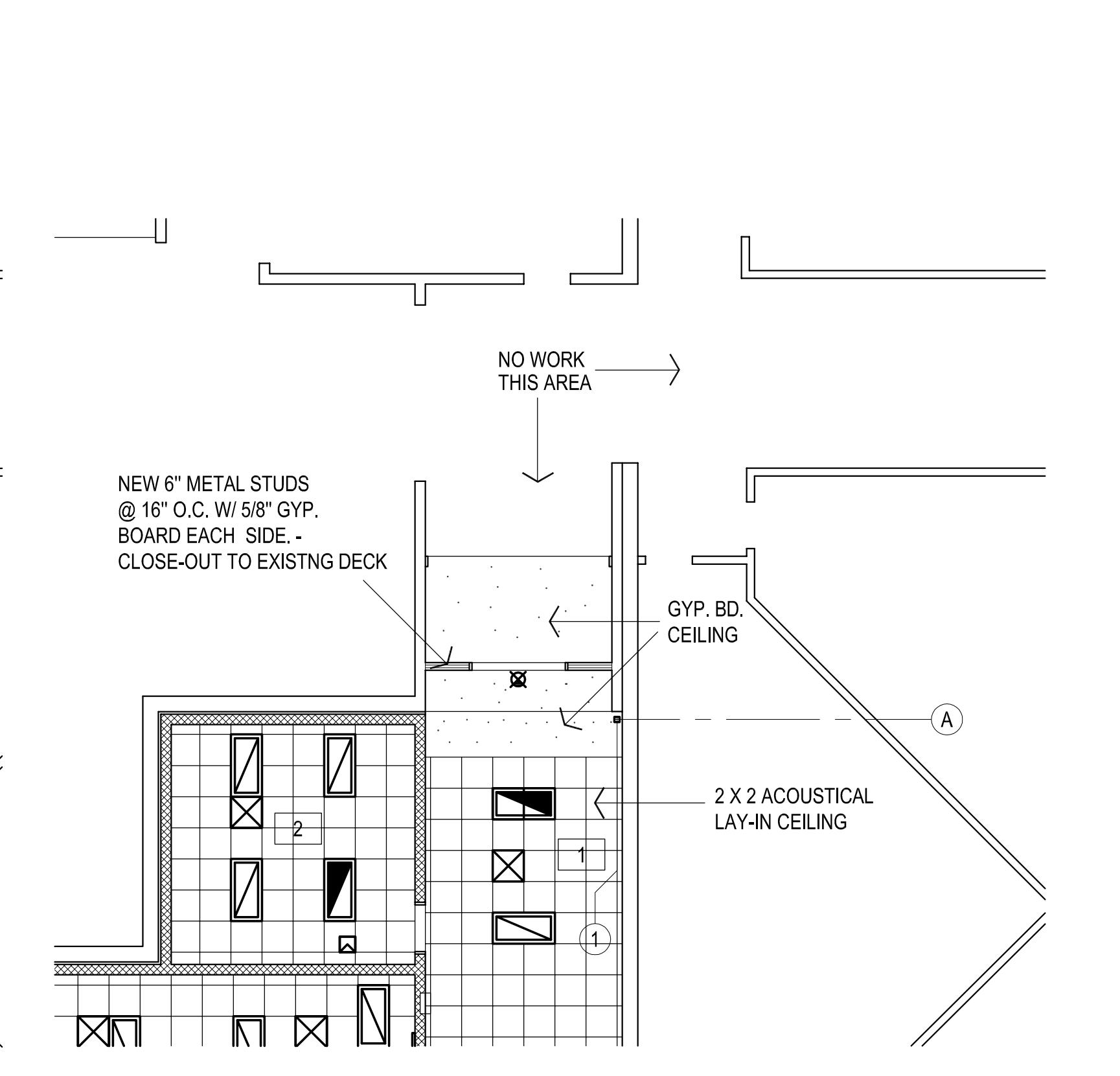
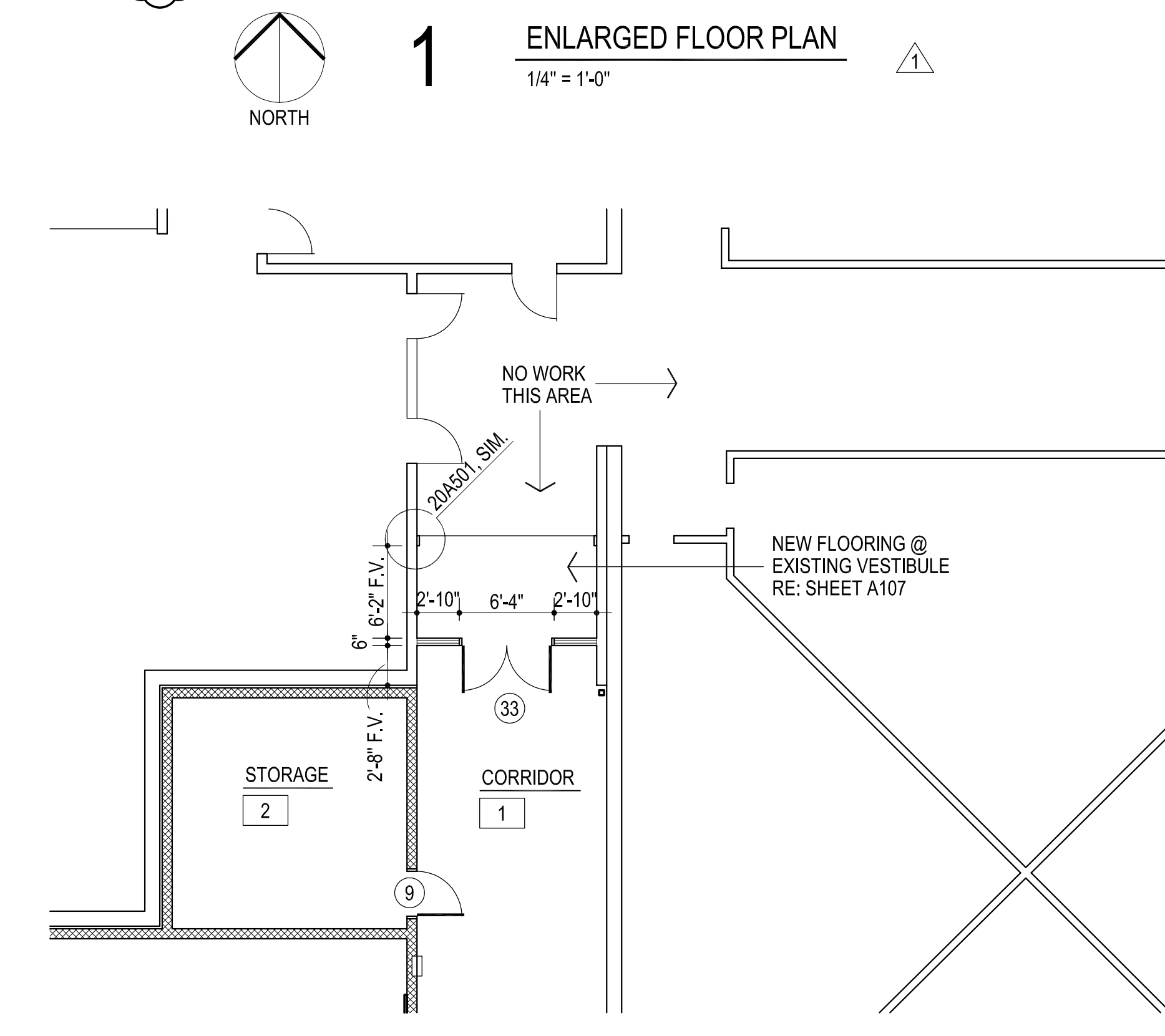
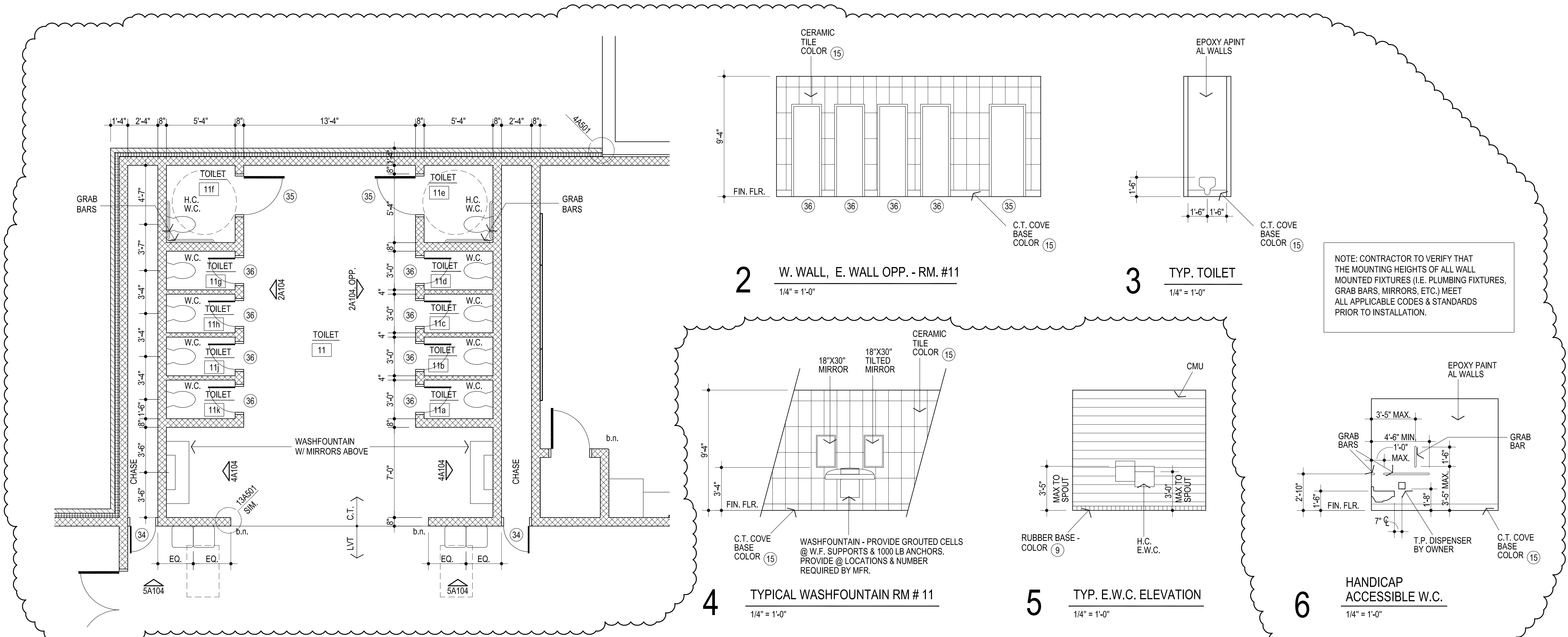


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**A104**







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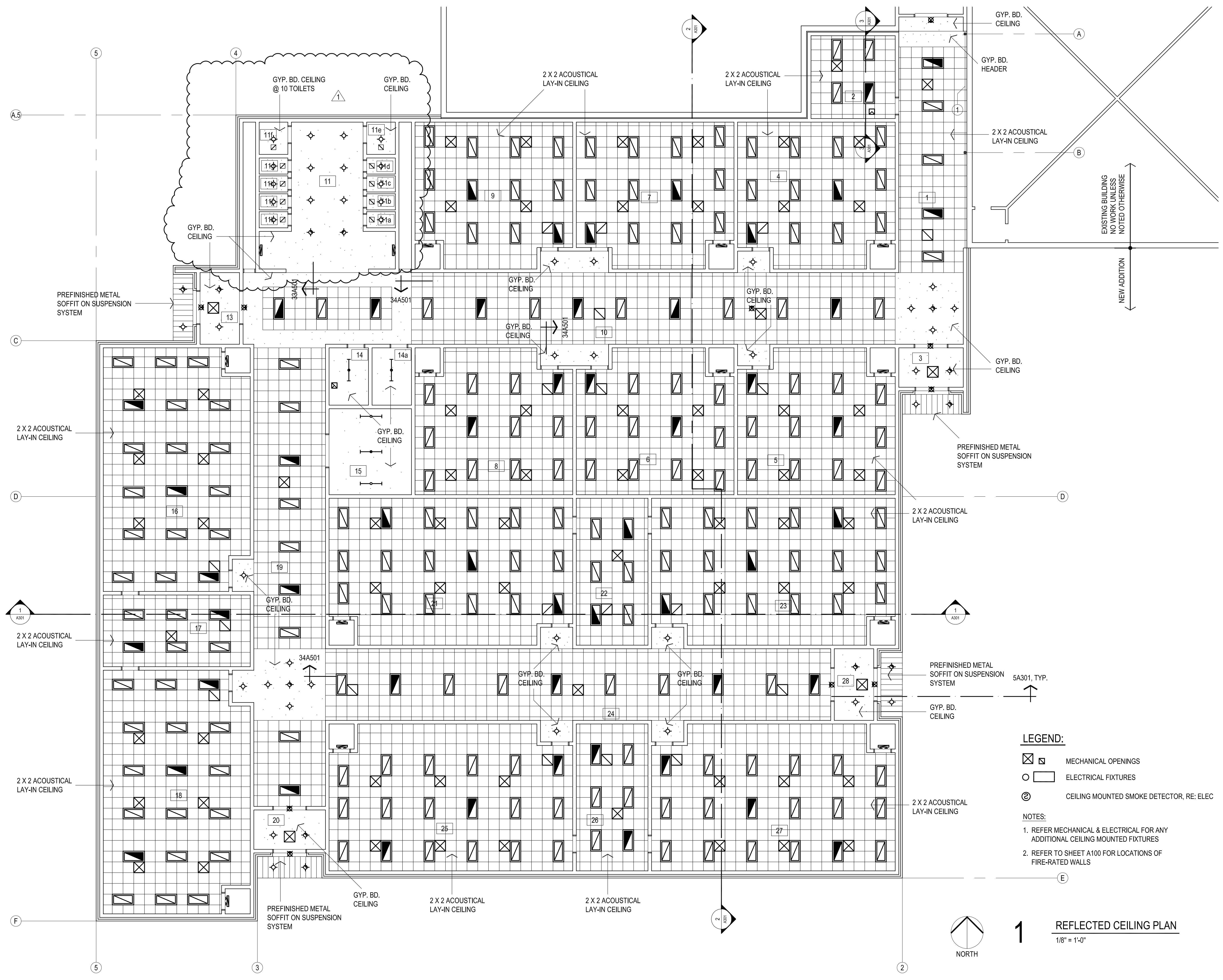


CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

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**LEGEND:**

- MECHANICAL OPENINGS
- ELECTRICAL FIXTURES
- CEILING MOUNTED SMOKE DETECTOR, RE: ELEC

**NOTES:**

1. REFER MECHANICAL & ELECTRICAL FOR ANY ADDITIONAL CEILING MOUNTED FIXTURES
2. REFER TO SHEET A100 FOR LOCATIONS OF FIRE-RATED WALLS

**1 REFLECTED CEILING PLAN**  
1/8" = 1'-0"





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MA	_____
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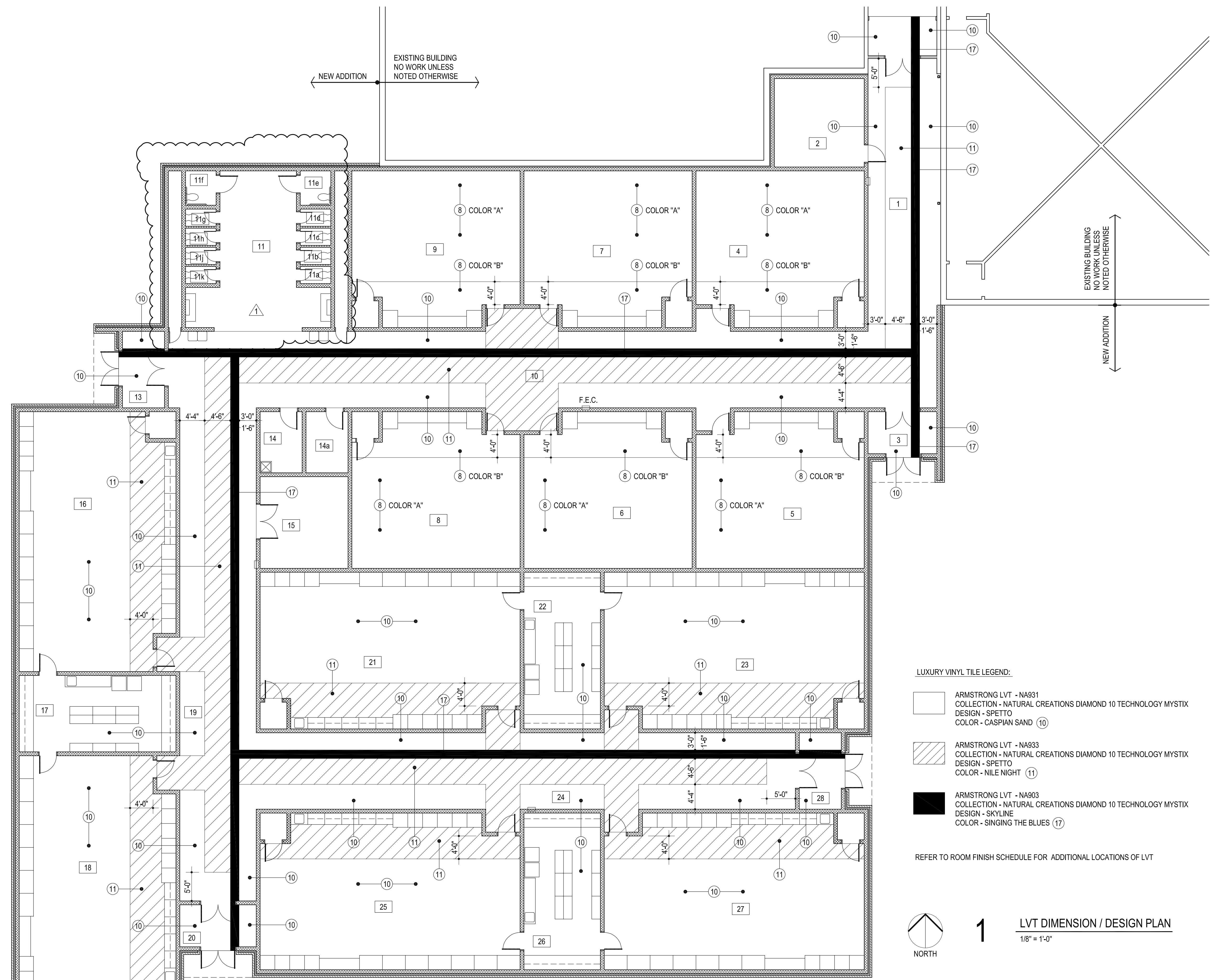


CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

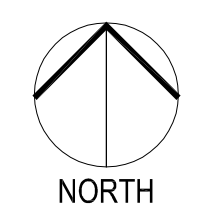
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NEW ADDITION  
EXISTING BUILDING  
NO WORK UNLESS  
NOTED OTHERWISE

EXISTING BUILDING  
NO WORK UNLESS  
NOTED OTHERWISE  
NEW ADDITION







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revisions  
① CB#1 2-18-22

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MOORE, OKLAHOMA

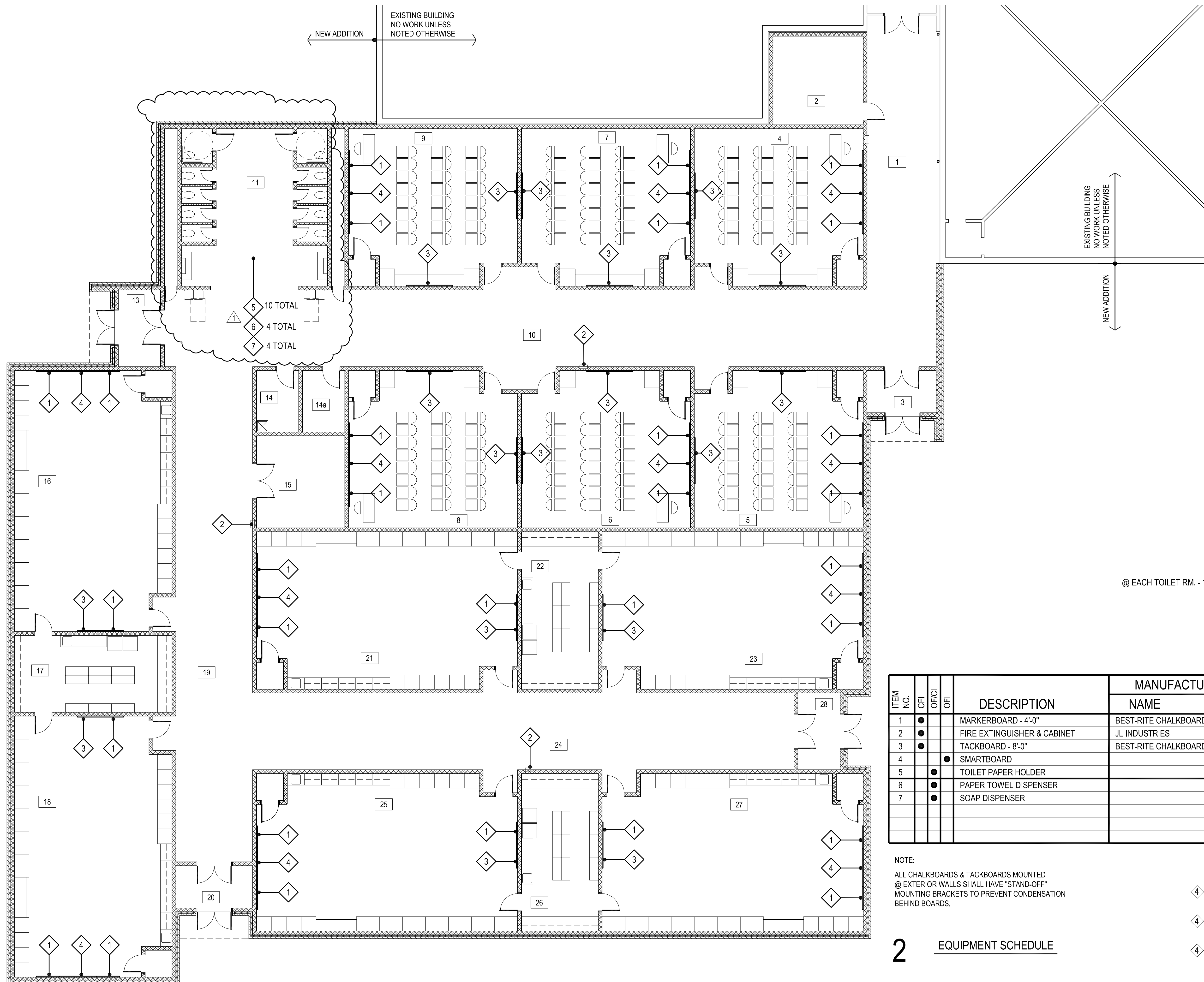


CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

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@ EACH TOILET RM. - 10 TOTAL

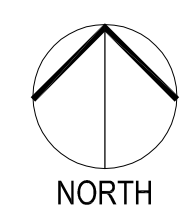
ITEM NO.	CFI	OF/CI	OFI	DESCRIPTION	MANUFACTURER		REMARKS
					NAME	MODEL NO.	
1	●			MARKERBOARD - 4'-0"	BEST-RITE CHALKBOARD CO.	RE: SPECS	W/ CHALK RAIL
2	●			FIRE EXTINGUISHER & CABINET	JL INDUSTRIES	RE: SPECS	
3	●			TACKBOARD - 8'-0"	BEST-RITE CHALKBOARD CO.	RE: SPECS	
4		●		SMARTBOARD			BY OWNER
5		●		TOILET PAPER HOLDER			
6		●		PAPER TOWEL DISPENSER			
7		●		SOAP DISPENSER			

NOTE:  
ALL CHALKBOARDS & TACKBOARDS MOUNTED  
@ EXTERIOR WALLS SHALL HAVE "STAND-OFF"  
MOUNTING BRACKETS TO PREVENT CONDENSATION  
BEHIND BOARDS.

**LEGEND :**

- ④ [Solid Diamond] CONTRACTOR FURNISHED AND INSTALLED (CFI)
- ④ [Dashed Diamond] OWNER FURNISHED AND INSTALLED (OFI)
- ④ [Diamond with Dashed Border] OWNER FURNISHED AND CONTRACTOR INSTALLED (OF / CI)

**2 EQUIPMENT SCHEDULE**



**1**

**EQUIPMENT FLOOR PLAN**  
1/8" = 1'-0"



DESCRIPTION	RM. NO.	FLOOR				BASE			CEILING			CLG. HT.	REMARKS	RM. NO.	WALLS		PAINT / COLOR SCHEDULE				
		LUXURY VINYL TILE	CARPET TILE	CERAMIC TILE	EXPOSED CONCRETE W/ HARDENER	LAB FLOORING	CERAMIC TILE	RUBBER	NONE	2 X 2 ACOUST. LAM-IN (TEG)	2 X 2 ACOUST. LAM-IN (SQ)				GYP. BOARD	EXPOSED STRUCTURE	CERAMIC TILE	CONCRETE MASONRY UNIT	CLG.	N	E
CORRIDOR	1													1			(1) 24	(2) 2	(2) 2	(2) 2	(9) 10 (11) 17
STORAGE	2													2			(23) 2	(2) 2	(2) 2	(2) 2	(9)
VESTIBULE	3													3			(1) 2	(2) 2	(2) 2	(2) 2	(9) 10 17
CLASSROOM	4													4			(23) 2	(2) 2	(2) 2	(2) 3	(8) 9 18 (19) 26 (27)
CLASSROOM	5													5			(23) 2	(2) 2	(2) 2	(2) 3	(8) 9 18 (19) 26 (27)
CLASSROOM	6													6			(23) 2	(2) 2	(2) 2	(2) 3	(8) 9 18 (19) 26 (27)
CLASSROOM	7													7			(23) 2	(2) 2	(2) 2	(2) 3	(8) 9 18 (19) 26 (27)
CLASSROOM	8													8			(23) 2	(2) 3	(2) 2	(2) 2	(8) 9 18 (19) 26 (27)
CLASSROOM	9													9			(23) 2	(2) 3	(2) 2	(2) 2	(8) 9 18 (19) 26 (27)
CORRIDOR	10													10			(1) 24	(2) 2	(2) 2	(2) 2	(9) 10 (11) 17
TOILET	11													11			(1) 15	(15) 15	(15) 15	(14) 29	
NUMBER NOT USED	12													12							
VESTIBULE	13													13			(1) 2	(2) 2	(2) 2	(2) 2	(9) 10 17
CUSTODIAN	14													14			(1) 2	(2) 2	(2) 2	(2) 2	(9) EPOXY PAINT
I.T.	14a													14a			(1) 2	(2) 2	(2) 2	(2) 2	(9)
MECH. / ELEC.	15													15			(1) 2	(2) 2	(2) 2	(2) 2	(9) EPOXY PAINT
LABORATORY	16													16			(23) 2	(2) 2	(3) 2	(2) 2	(9) 10 18 (19) 26 (27)
STORAGE	17													17			(23) 2	(2) 2	(2) 2	(2) 2	(9) 10 18 (19)
LABORATORY	18													18			(23) 3	(2) 2	(2) 2	(2) 2	(9) 10 18 (19) 26 (27)
CORRIDOR	19													19			(1) 24	(2) 2	(2) 2	(2) 2	(9) 10 (11) 17
VESTIBULE	20													20			(24) 2	(2) 2	(2) 2	(2) 2	(9) 10 (11) 17
LABORATORY	21													21			(23) 2	(3) 2	(2) 2	(2) 2	(9) 10 18 (19) 26 (27)
STORAGE	22													22			(23) 2	(2) 2	(2) 2	(2) 2	(9) 10 18 (19)
LABORATORY	23													23			(23) 2	(2) 2	(2) 3	(2) 2	(9) 10 18 (19) 26 (27)
CORRIDOR	24													24			(24) 2	(2) 2	(2) 2	(2) 2	(9) 10 (11) 17
LABORATORY	25													25			(23) 2	(3) 2	(2) 2	(2) 2	(9) 10 18 (19) 26 (27)
STORAGE	26													26			(23) 2	(2) 2	(2) 2	(2) 2	(9) 10 18 (19)
LABORATORY	27													27			(23) 2	(2) 2	(2) 3	(2) 2	(9) 10 18 (19) 26 (27)
VESTIBULE	28													28			(24) 2	(2) 2	(2) 2	(2) 2	(9) 10 17

TOILET ROOM

TOILET	11a													11a			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11b													11b			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11c													11c			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11d													11d			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11e													11e			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11f													11f			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11g													11g			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11h													11h			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11j													11j			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT
TOILET	11k													11k			(1) 2	(15) 15	(15) 15	(15) 15	(14) EPOXY PAINT

1 ROOM FINISH SCHEDULE

- SCHEDULE ORIENTED SAME AS PLAN
- MATERIAL ON ALL SURFACES
- MATERIAL ON EACH INDIVIDUAL SURFACE
- IF CIRCLE IS BLACKENED - SURFACE TO RECEIVE PAINTER'S FINISH
- IF CIRCLE IS BLANK - SURFACE OR MATERIAL IS PREFINISHED OR NOT PAINTED

2 COLOR SCHEDULE

PAINT:

- 1 GYP. BOARD CEILINGS: SHERWIN-WILLIAMS - SW7006 - EXTRA WHITE
- 2 WALLS - FIELD: SHERWIN-WILLIAMS - SW7008 - ALABASTER
- 3 WALL - ACCENT WALL: SHERWIN-WILLIAMS - SW7016 MINDFUL GRAY
- 4 H.M. DOORS & FRAMES : SHERWIN-WILLIAMS - SW6992 - INKWELL
- 5 MISCELLANEOUS METALS: SHERWIN-WILLIAMS - SW6992 - INKWELL
- 6 WOOD DOORS & MILLWORK: ARCHITECTURAL WOOD DOORS - CLEAR CL07
- 7 NUMBER NOT USED

PREFINISHED COLORS:

- 8 CARPET TILES: INTERFACE FLOR - COLOR "A": 410-107025 NATURAL - COLOR "B": AE317-105829 AZURE
- 9 RUBBER WALL BASE: ROPPE - 100 BLACK
- 10 LUXURY VINYL TILE COLOR (A) : ARMSTRONG LVT - NA931 CASPIAN SAND
- 11 LUXURY VINYL TILE COLOR (B) : ARMSTRONG LVT - NA933 NILE NIGHT
- 12 GROUT: COLOR 1 TO BE SELECTED FROM MFR'S STANDARD COLORS
- 13 GROUT: COLOR 2 TO BE SELECTED FROM MFR'S STANDARD COLORS
- 14 CERAMIC TILE FLOORS: AMERICAN OLEAN - ULTRA MODERN - UM07 - PROGRESSIVE GRAY OR CROSSVILLE ROCA STRATOS ORION NEGRO / ANTRACITA
- 15 CERAMIC TILE WALLS & BASE: AMERICAN OLEAN - ULTRA MODERN - UM05 - INFINITE CREAM OR CROSSVILLE ROCA STRATOS ORION BLANCO W/ MTL. TRIM @ ALL OUTSIDE CORNERS
- 16 NUMBER NOT USED
- 17 LUXURY VINYL TILE COLOR (C) : ARMSTRONG LVT - NA503 SINGING THE BLUES
- 18 SOLID SURFACE (COUNTERTOPS) :CORIAN - DEEP CAVIAR
- 19 PLASTIC LAMINATE (FACING AND EDGING) : WILSONART - 7925-38 - MONTICELLO MAPLE
- 20 NUMBER NOT USED
- 21 VINYL "T" EDGING: - TO BE SELECTED FROM MFR'S STANDARD COLORS
- 22 MELAMINE: TO BE SELECTED FROM MFR'S STANDARD COLORS
- 23 2 X 2 ACOUSTICAL LAY - IN TILES - SQUARE EDGE : REFER SPECIFICATIONS
- 24 2 X 2 ACOUSTICAL LAY - IN TILES - TEGULAR EDGE : REFER SPECIFICATIONS
- 25 INTERIOR SIGNAGE: MOHAWK SIGN SYSTEMS - BLACK W/ WHITE LETTERS
- 26 MARKERBOARD: CLARIDGE - NO. 100 - LCS WHITE
- 27 TACKBOARD: CLARIDGE - KB662 - GREY
- 28 NUMBER NOT USED
- 29 TOILET PARTITIONS : BRADLEY - STAINLESS STEEL - REFER SPECIFICATIONS

EXTERIOR COLORS:

- 30 MASONRY BRICK VENEER - TO BE SELECTED BY ARCHITECT PRIOR TO CONSTRUCTION
- 31 MASONRY BRICK VENEER - TO BE SELECTED BY ARCHITECT PRIOR TO CONSTRUCTION
- 32 PREFINISHED METAL SOFFIT PANEL: COLOR TO BE SELECTED FROM MFR. STANDARD COLORS - MATCH EXISTING
- 33 PREFINISHED METAL COPING: COLOR TO BE SELECTED FROM MFR. STANDARD COLORS - MATCH EXISTING



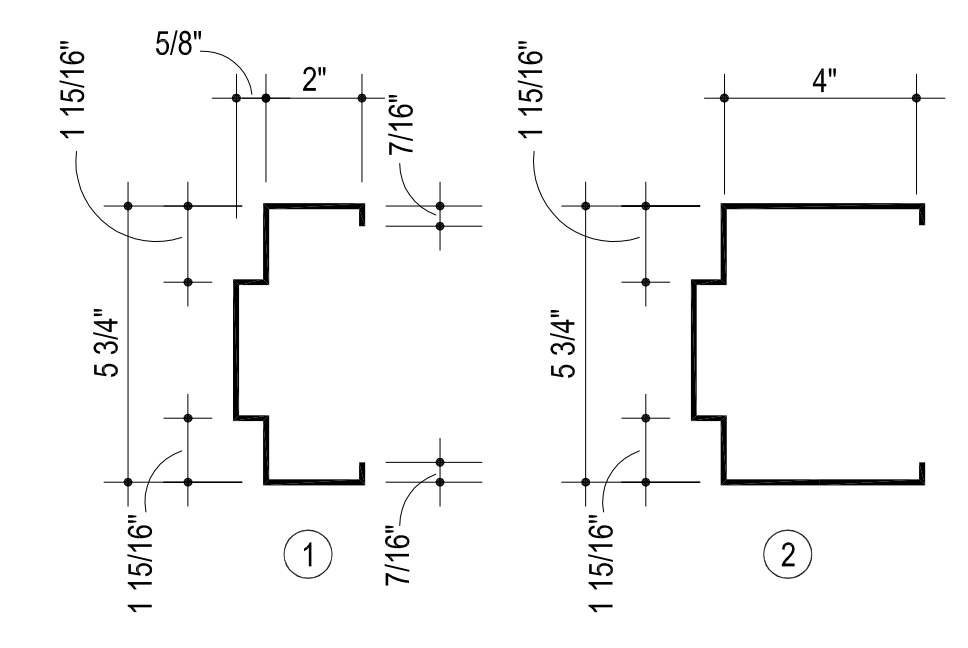


DOOR NO.	LOCATION		DOOR ELEV.	DOOR MAT'L	DOOR SIZE			FRAME ELEV.	DOOR DETAILS				REMARKS	HDWR. SET NO.	
	FROM	TO			WIDTH	HEIGHT	TH'K		HEAD	SILL	JAMB	JAMB			
1	3	EXT.	A	HM.	PR.	3'-0"	7'-0"	1 3/4"	A	1A501	15A501	8A501	8A501		1
2	1	3	↑	WD.	PR.	3'-0"	↑	↑	↑	2A501	16A501	9A501	9A501		7
3	28	EXT.	A	HM.	PR.	3'-0"				1A501	15A501	8A501	8A501		1
4	24	28		WD.	PR.	3'-0"				2A501	16A501	9A501	9A501		7
5	20	EXT.		HM.	PR.	3'-0"				1A501	15A501	8A501	8A501		1
6	19	20		WD.	PR.	3'-0"				2A501	16A501	9A501	9A501		7
7	13	EXT.	↓	HM.	PR.	3'-0"				1A501	15A501	8A501	8A501		1
8	10	13	A	WD.	PR.	3'-0"				2A501	16A501	9A501	9A501		7
9	2	1	B	↑	3'-0"					↑	↑	↑	↑	20 MIN. DR & FRAME	5
10	4	10	A	↑	↑					↑	↑	↑	↑		4
11	5	10	↑												4
12	6	10													4
13	8	10													4
14	7	10	↓												4
15	9	10	A	↑											4
16	10	14a	B	↓											5
17	10	14	B		3'-0"									20 MIN. DR & FRAME	5
18	CHS	10	B		2'-0"										6
19	19	15	B		PR.	3'-0"								90 MIN. DR & FRAME	2
20	16	19	A	↑	3'-0"										4
21	17	16	↑												3
22	17	18													3
23	18	19													4
24	21	24													4
25	22	21													3
26	22	23													3
27	23	24													4
28	25	24													4
29	26	25													3
30	26	27	↓												3
31	27	24	A												4
32	--	--	B		3'-0"					2A501	9A501	9A501	9A501	12 LOCATIONS	6
33	EXIST	1	B		PR.	3'-0"				17A501	24A501	24A501	24A501	90 MIN. DR & FRAME	8
34	CHS	10	B		2'-0"					2A501	9A501	9A501	9A501		6
35	**	11	B	↓	3'-0"					2A501	9A501	9A501	9A501	2 LOCATIONS	
36	11	**	B	WD.	2'-0"	7'-0"	1 3/4"	A		2A501	16A501	9A501	9A501	8 LOCATIONS	

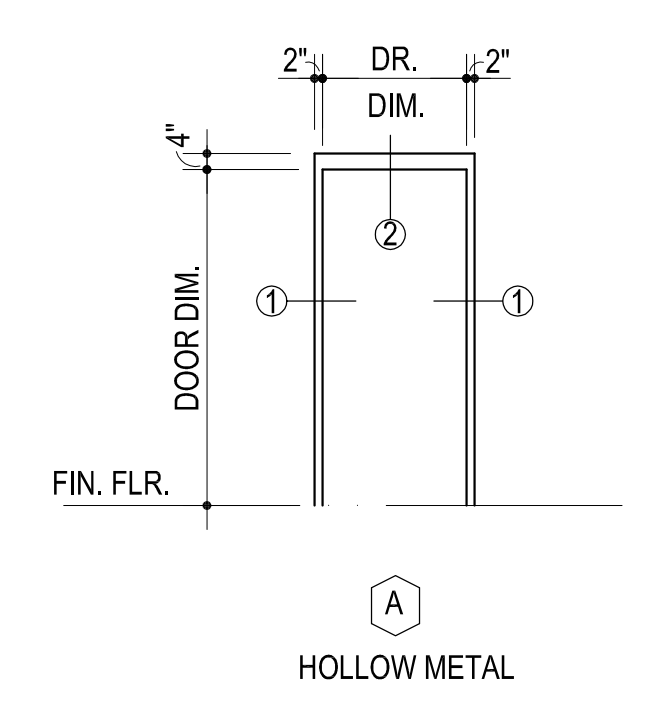
**1** DOOR SCHEDULE

- G1 7/8" NOM. TEMPERED INSULATING GLASS
- G2 1/4" CLEAR TEMPERED GLASS

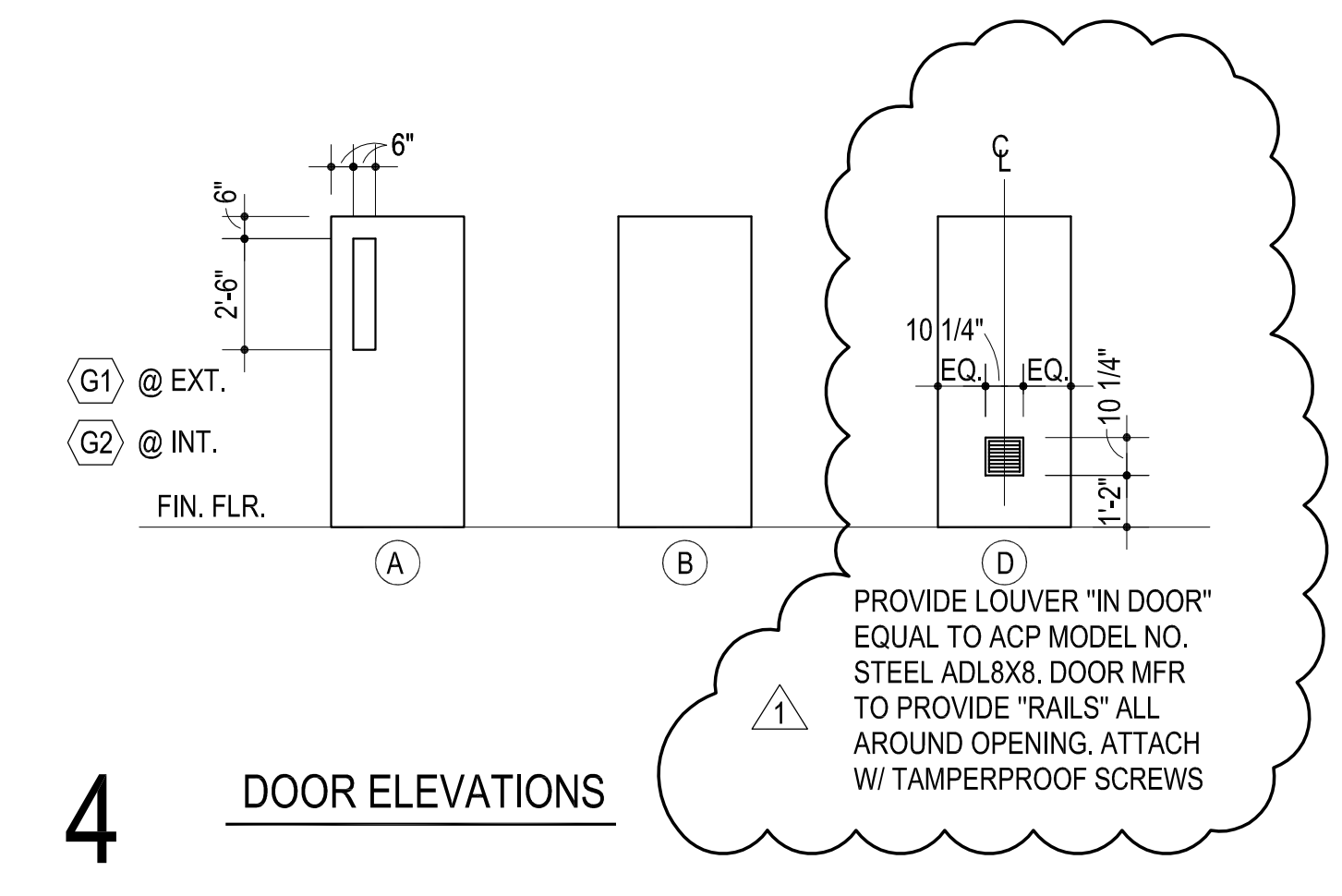
**2** GLAZING SCHEDULE



**3** FRAME PROFILE



**5** DOOR FRAME ELEVATIONS



**4** DOOR ELEVATIONS

PROVIDE LOUVER "IN DOOR" EQUAL TO ACP MODEL NO. STEEL ADL8X8. DOOR MFR TO PROVIDE "RAILS" ALL AROUND OPENING. ATTACH W/ TAMPERPROOF SCREWS

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KFC ENGINEERING  
STRUCTURAL  
SALAS O'BRIEN  
MECHANICAL / ELECTRICAL



CG  
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MA  
checked by  
SEPTEMBER 2021  
date  
revisions  
CB#1 2-18-22

MOORE PUBLIC SCHOOLS  
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CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

**A602**

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## CONSTRUCTION BULLETIN # 1

Client: Abla Griffin Partnership  
 Project Name: Highland East JH Classroom Addition  
 Project Number: 2021-02035-00

March 11, 2022

Requested by:  Owner  
 Contractor:  
 Salas O'Brien: Enter Name Here

To: Mike Abla, Clay Griffin (AGP)



This Construction Bulletin is issued to:

- Offer additional information for clarification or supplemental drawings for layout assistance.
- Request cost and time impact to initiate a change to the Contract Documents. Owner approval is required, do not commence with revisions unless directed in writing. Avoid Work in areas that may be affected by proposed change until approved or rejected. Once approved, forward Change Order documentation as required by the Contract Documents.
- Direct a required change in the Contract Documents. Proceed with change(s) as indicated. Forward Change Order documentation as required by the Contract Documents.
- Response to RFI \_\_\_\_\_.

Item No.	Description	Attachment
1	Revised light fixture schedule to include Type 'F' Vanity fixture.	E000
2	Revised lighting and control layout for updated gender-neutral restroom. Addition of vanity fixtures. Addition of general note referring to control detail.	E101
3	Revised receptacle locations for updated gender-neutral restrooms. Addition of (2) Electric heaters within chases. Addition of (3) Trap primers and relocation of existing.	E201
4	Addition of circuit information for CU-11.	E202
5	Addition of detail '9'.	E501





<b>Item No.</b>	<b>Description</b>	<b>Attachment</b>
6	Revised mechanical equipment schedule, Panel 'H' schedule, and Panel 'L' Schedule to include new electric heaters and trap primers. Revised circuit information for CU-11.	E601
7	Revised exhaust duct/grille layout to reflect restroom changes.	M101
8	Revised keyed notes to reflect design changes for restrooms.	M101
9	Addition of electric heaters to prevent freezing in chases.	M101
10	Revised schedules to include necessary equipment for design changes in restrooms.	M601
11	Revised Fire Protection plan to reflect restroom changes.	F101
12	Revised below grade piping layout to reflect restroom changes.	P101
13	Revised above grade piping layout to reflect restroom changes.	P111

**END OF CB-01**



LIGHT FIXTURE SCHEDULE				
TYPE	SYMBOL	DESCRIPTION	MANUFACTURER	REFERENCE CATALOG #
A		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING.	COLUMBIA	CFP24 4135 HE
AE		2X4 LED EDGE-LIT FLAT PANEL. 32W, 4100 LUMENS, 3500K CCT. 0-10V DIMMING, 90 MIN BATTERY BACKUP.	COLUMBIA	CFP24 4135 HE ELL14
B		4' LED SURFACE MOUNTED LED FIXTURE. 40W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING, DAMP LOCATION.	COLUMBIA	RLW4 35 ML FAW ED U
BE		4' LED SURFACE MOUNTED LED FIXTURE. 40W, 5000 LUMENS, 3500K CCT. 0-10V DIMMING, DAMP LOCATION. 90 MIN BATTERY BACKUP.	COLUMBIA	RLW4 35 ML FAW ED U ELL14
C		6\"/>	LITON	CH618 ICA UED10 CR6L22 XX T35
CE		6\"/>	LITON	CH618 ICA UED10EM CR6L22 XX T35
D		2' LED STRIP FIXTURE. 18W, 2200 LUMENS, 3500K CCT. WALL MOUNTED, 0-10V DIMMING.	COLUMBIA	MPS2 35 MW CW ED U XX
EX		LED EXIT SIGN. STAINLESS STEEL FACE WITH RED LETTERS, UNIVERSAL FACE AND MOUNTING, SELF-DIAGNOSTIC. 90 MIN BATTERY BACKUP.	COMPASS	CCESRE/COEDRE
F		2' LED VANITY FIXTURE. 15W, 1000 LUMENS, 3500K CCT. 0-10V DIMMING.	PINNACLE	EX30 WHE N 835VHO 2 WA U OL2 1 0 XX
S		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING.	COLUMBIA	MPS4 35 ML CPW ED U
SE		4' LED STRIP FIXTURE. 38W, 4800 LUMENS, 3500K CCT. SUSPENDED MOUNTING, 0-10V DIMMING. 90 MIN BATTERY BACKUP.	COLUMBIA	MPS4 35 ML CPW ED U ELL14
W		EXTERIOR LED WALL PACK. 45W, 5700 LUMENS, 4000K CCT. WET LOCATION, 90 MIN BATTERY BACKUP.	HUBBELL	RWL1 48L 35 4K7 3 UNV XX E

GENERAL NOTES:  
EQUIVALENT ALTERNATE LIGHT FIXTURES MAY BE PROVIDED FOR BIDDING PURPOSES. THE ENGINEER DOES NOT TAKE RESPONSIBILITY FOR ENSURING ALTERNATE LIGHT FIXTURES USED FOR BIDDING ARE EQUAL; THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALTERNATE FIXTURES ARE EQUIVALENT TO THOSE SPECIFIED PRIOR TO BID. THE WINNING BID PACKAGE SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW IN ACCORDANCE WITH THE SPECIFICATIONS.

ELECTRICAL LEGEND	
	PANEL BOARD
	DISTRIBUTION PANEL BOARD
	TRANSFORMER
	UTILITY METER
	SEPARATE CIRCUIT BREAKER
	DISCONNECT
	FUSED DISCONNECT SWITCH
	EMERGENCY FUSED DISCONNECT SWITCH
	MOTOR STARTER/CONTRACTOR
	COMBINATION MOTOR STARTER
	PUSH BUTTON STATION AS NOTED
	PULL BOX, SIZE AS REQUIRED BY CODE
	ELECTRICAL CONNECTION
	MOTOR CONNECTION
	HOME RUN TO PANEL BOARD

SWITCH LEGEND	
SYMBOL	DESCRIPTION
	20A, 120/277V SPST SWITCH
	20A, 120/277V LETTER INDICATES GROUP
	20A, 120/277V 3-WAY
	20A, 120/277V 4-WAY
	DIMMER SWITCH
	KEY OPERATED SWITCH
	OCCUPANCY SENSOR SWITCH

GENERAL NOTE:  
SEE SPECIFICATIONS FOR MANUFACTURERS

OCC SENSOR SCHEDULE	
SYMBOL	DESCRIPTION
	MULTI-TECHNOLOGY, CEILING MOUNTED OCCUPANCY SENSOR CAPABLE OF DISABLING AUTO ADAPTING FEATURE. PROVIDE WITH RELAY/POWER PACKS AS REQUIRED PER PLAN. (LOW VOLTAGE)

- GENERAL NOTES:
- E.C. SHALL CONTACT ARCHITECT FOR COLOR SELECTION PRIOR TO ORDER OF ANY SENSOR.
  - FOR CEILING SPACES 14 FT. A.F.F. PIR TYPE CEILING MOUNTED SENSORS SHALL BE USED.
  - WALL MOUNTED DEVICES TO MATCH MANUAL LIGHTING CONTROL.

GENERAL ELECTRICAL NOTES	
1.	CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY ELECTRICAL OR CODE ISSUES PRIOR TO BID. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND OPERATIONAL CODE COMPLIANT SYSTEM.
2.	ALL WORK SHALL BE IN CONFORMANCE WITH NATIONAL, STATE, AND LOCAL CODES AND/OR ORDINANCES.
3.	ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER CONTRACTORS & LOCAL UTILITY. E.C. SHALL CONTACT LOCAL UTILITY FOR EXACT SERVICE REQUIREMENTS TO INCLUDE BUT NOT LIMITED TO TRANSFORMER, METERING AND CABLING. LOCAL UTILITY REQUIREMENTS SUPERSEDE DRAWINGS AND SPECIFICATIONS.
4.	SEE ARCHITECTURAL, MECHANICAL, & PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
5.	WHERE NEW OR EXISTING WIRING FOR INTERIOR DATA OR POWER WILL BE EXPOSED, SURFACE MOUNTED RACEWAY EQUAL TO WIREMOLD SERIES 5400 SHALL BE USED. SURFACE BOXES SHALL MATCH SURFACE RACEWAY. ALL PARTS AND ACCESSORIES SHALL BE INSTALLED FOR A COMPLETE SYSTEM. WHERE BOTH DATA AND POWER WIRING SHARE THE SAME RACEWAY, POWER WIRING SHALL BE SEPARATED FROM DATA WIRING AS PER NEC.
6.	ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. THEY ARE INTENDED TO GIVE APPROXIMATE LOCATIONS AND OVERALL DESIGN INTENT. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PRODUCTS, MATERIALS, AND ELECTRICAL METHODS WHICH HAVE NOT BEEN SHOWN OR INDICATED BUT ARE REQUIRED FOR A COMPLETE SYSTEM TO THE STANDARDS OF THE INDUSTRY.
7.	INSTALL LIGHTING FIXTURES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. PROVIDE SUPPORTING DEVICES FOR ADEQUATE SUPPORT OF FIXTURES FROM STRUCTURE.
8.	UPON COMPLETION OF THE ELECTRICAL WORK, THE INSTALLATION SHALL BE TESTED FOR CONTINUITY, GROUNDS, AND SHORT CIRCUITS. THE ELECTRICAL CONTRACTOR SHALL DEMONSTRATE PROPER PERFORMANCE OF ALL SYSTEMS. ALL DEFECTIVE WORK OR MATERIALS SHALL BE REPLACED OR REPAIRED AS NECESSARY AND RETESTED.
9.	ELECTRICAL RACEWAYS THAT PENETRATE FIRE RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED AS PER THE LOCAL BUILDING CODE.
10.	THE ELECTRICAL CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL SYSTEM FOR THE PROJECT. AT LEAST ONE 120 VOLT SINGLE PHASE RECEPTACLE SHALL BE PROVIDED FOR EACH 500 SQUARE FEET OF FLOOR SPACE. SUFFICIENT TEMPORARY LIGHTING SHALL BE PROVIDED TO ALLOW ALL CONTRACTORS TO COMPLETE THEIR WORK. TEMPORARY ELECTRICAL CIRCUITS SHALL BE EQUIPPED WITH COMBINATION GROUND FAULT INTERRUPTER AND CIRCUIT BREAKER PER NEC. TEMPORARY ELECTRICAL SYSTEM SHALL BE INCLUDED IN THIS BID. USAGE CHARGES SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.

ELECTRICAL ABBREVIATIONS			
AC	ABOVE COUNTERTOP	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISH FLOOR	MCA	MINIMUM CIRCUIT AMPS
AFG	ABOVE FINISH GRADE	MDP	MAIN DISTRIBUTION PANEL
ANNC	ANNUNCIATOR	MTD	MOUNTED
CC	CONTROLS CONTRACTOR	NIC	NOT IN CONTRACT
DF	DRINKING FOUNTAIN	OCC	OCCUPANCY
EC	ELECTRICAL CONTRACTOR	PC	PLUMBING CONTRACTOR
EF	EXHAUST FAN	PNL	PANEL
EX	EXISTING	SPST	SINGLE POLE SINGLE THROW
EXR	EXISTING RELOCATED	TTB	TELEPHONE TERMINAL BOARD
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPT	WG	WIRE GUARD
HP	HORSEPOWER	WP	WEATHER PROOF
IBC	INTERNATIONAL BUILDING CODE	20A	20 AMP
IG	ISOLATED GROUND	ø	PHASE
LV	LOW VOLTAGE	3W	3 WIRE
LVRP	LV RELAY PANEL	1P20A	SINGLE POLE 20 AMP

ELECTRICAL SHEET INDEX	
E000	ELECTRICAL TITLE SHEET
E001	ELECTRICAL SITE PLAN
E101	ELECTRICAL LIGHTING PLAN
E201	ELECTRICAL POWER PLAN
E202	ELECTRICAL POWER PLAN - ROOF
E401	ELECTRICAL ONE-LINE DIAGRAM - DEMO
E402	ELECTRICAL ONE-LINE DIAGRAM - NEW
E501	ELECTRICAL DETAILS SHEET
E601	ELECTRICAL SCHEDULES

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KFC ENGINEERING  
STRUCTURAL

SALAS O'BRIEN  
MECHANICAL /ELECTRICAL



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SEPTEMBER 2021  
date  
01/25/22 ADDENDUM 1  
revisions  
03/11/22 CB01

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CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

**E000**



2600 Van Buren St., Suite 2635  
Norman, Oklahoma 73072  
P: 405.364.9926 | CA#:7058 Expiration Date: 6/30/2023

Salas O'Brien Project No.: 2021-02035-00

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CLASSROOM ADDITION  
HIGHLAND EAST  
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sheet no:

## E101

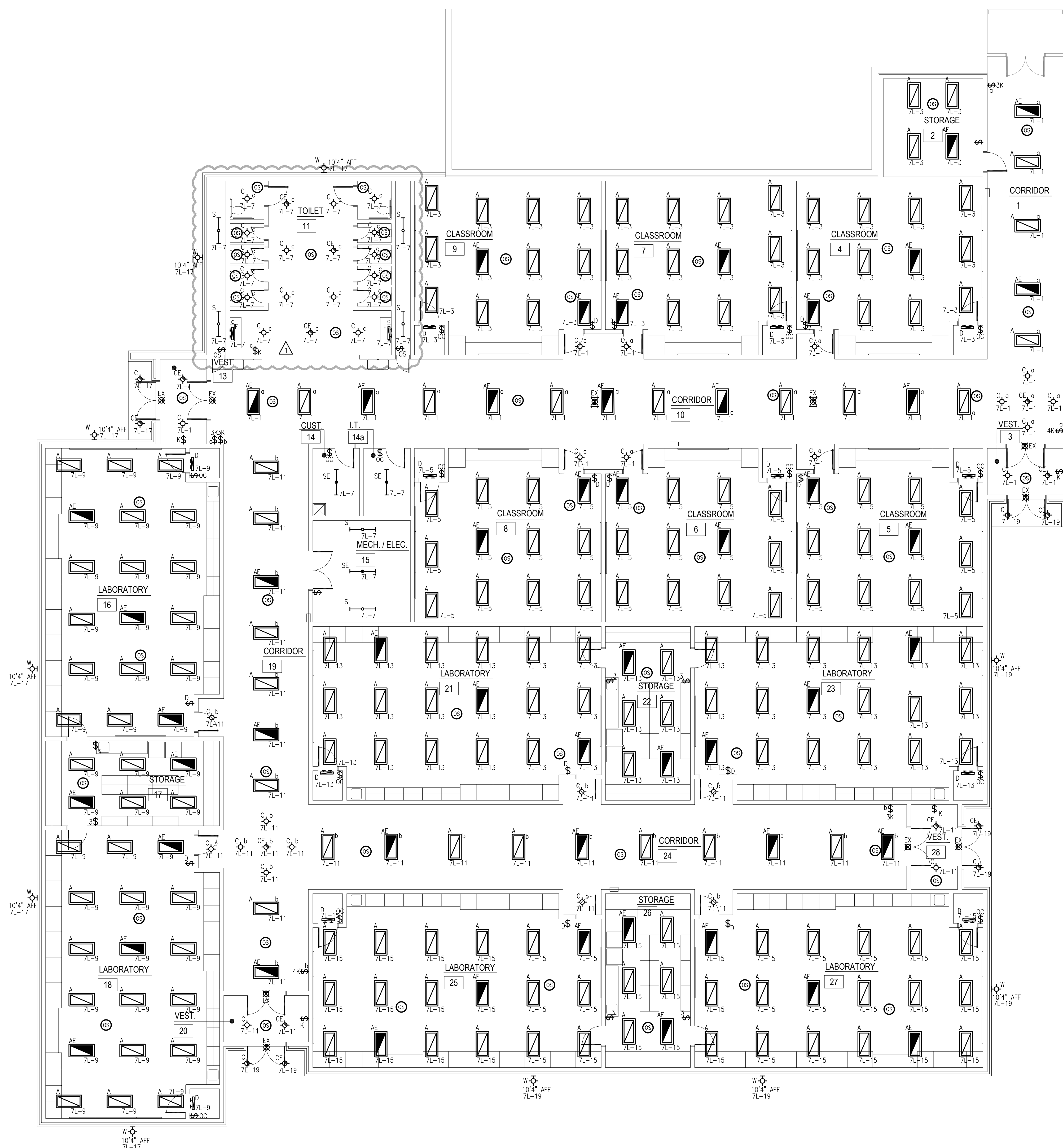


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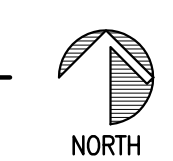
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- ### GENERAL NOTES
- OCCUPANCY SENSOR LOCATIONS ARE FOR DESIGN INTENT ONLY. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
  - CONNECT BATTERY PACKS TO UNSWITCHED HOT OF LOCAL LIGHTING CIRCUIT.
  - COORDINATE EXACT LOCATIONS AND MOUNTING HEIGHTS OF LIGHT FIXTURES WITH HVAC EQUIPMENT AND OTHER DEVICES/EQUIPMENT.
  - COORDINATE LIGHT SWITCHES WITH THERMOSTATS AND OTHER WALL MOUNTED DEVICES.
  - PROVIDE RELAY CONTACTOR FOR EXTERIOR LIGHTING. RELAY SHALL INTERLOCK WITH NEAREST EXISTING LIGHTING CIRCUIT SUCH THAT THE EXISTING LIGHTING CONTROLS SHALL CONTROL THE NEW EXTERIOR LIGHTING.
  - REFER TO '9/ES01' FOR ADDITIONAL INFORMATION REGARDING RESTROOM LIGHTING CONTROLS.



## 1 ELECTRICAL LIGHTING PLAN

1/8" = 1'-0"







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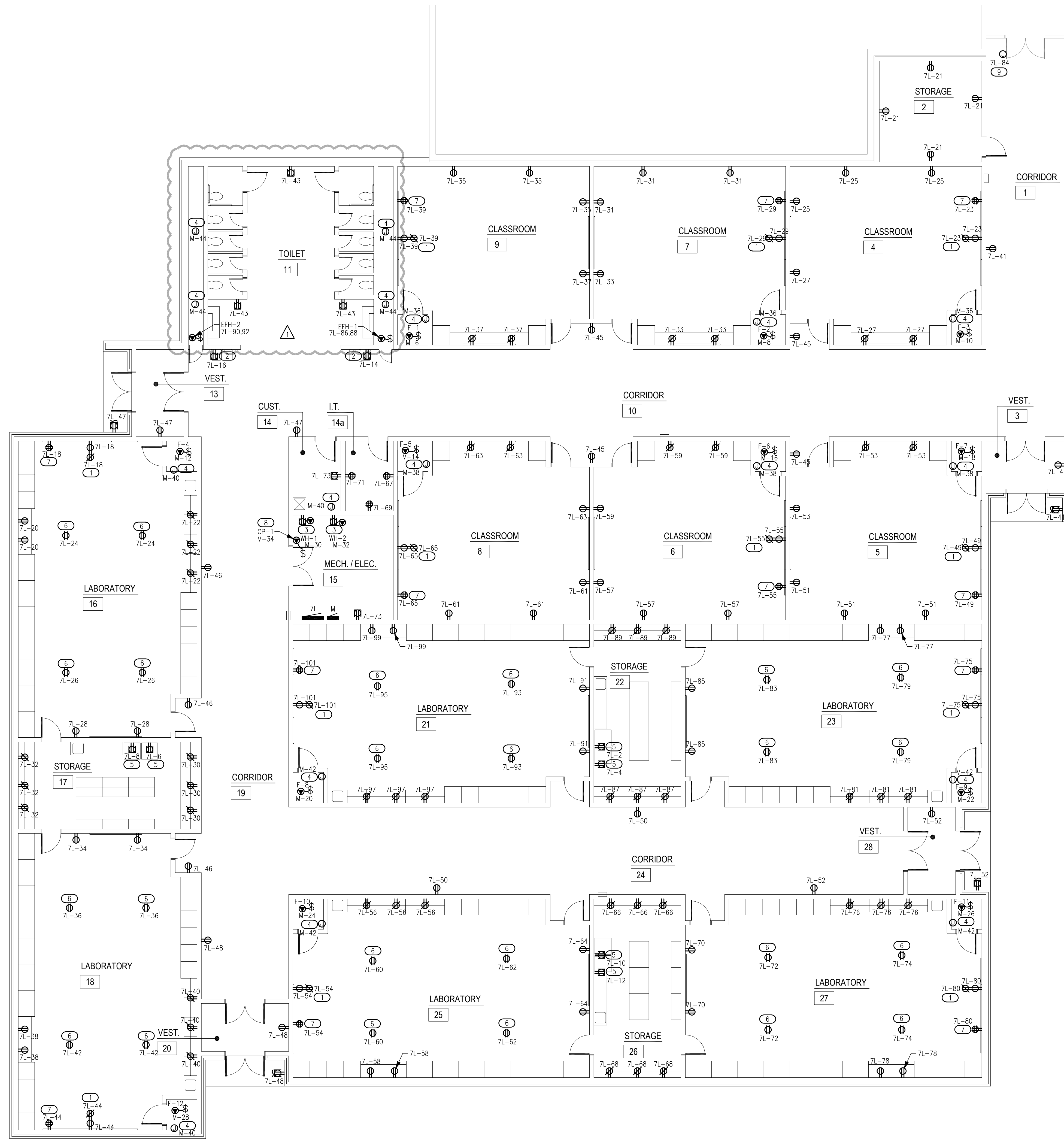
## E201



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- ### GENERAL NOTES
- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT. COORDINATE EXACT LOCATIONS OF CEILING MOUNTED DEVICES WITH LIGHTS, HVAC EQUIPMENT, AND OTHER DEVICES.
  - COORDINATE WITH MC AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
  - COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

- ### KEYED NOTES
- RECEPTACLE FOR SMART BOARD (BY OWNER) IN A RECESSED BACK BOX. REFER TO DETAIL 'E501/7' FOR ADDITIONAL INFORMATION.
  - PROVIDE 120V RECEPTACLE FOR WATER COOLER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
  - PROVIDE 120V RECEPTACLE FOR WATER HEATER. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
  - PROVIDE 120V CONNECTION FOR TRAP PRIMER LOCATED ON WALL 5'-0" AFF. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH IN.
  - PROVIDE DEDICATED 120V RECEPTACLES FOR FRIDGE & FREEZER. COORDINATE FINAL REQUIREMENTS AND LOCATIONS WITH ARCHITECT/OWNER PRIOR TO ROUGH-IN. ADJUST CONNECTION AS REQUIRED FOR A COMPLETE INSTALLATION.
  - PROVIDE 120V DROP CORD RECEPTACLE FOR GENERAL USE. COORDINATE FINAL LOCATIONS AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/8' FOR ADDITIONAL INFORMATION.
  - APPROXIMATE LOCATION OF TEACHERS DESK. COORDINATE FINAL LOCATION AND REQUIREMENTS WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. REFER TO DETAIL 'E501/7' FOR ADDITIONAL INFORMATION.
  - PROVIDE 120V CONNECTION FOR CIRCULATION PUMP. CP-1 SHALL SERVE BOTH WH-1 & WH-2. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
  - PROVIDE 120V CONNECTION FOR DOOR HOLDS. COORDINATE EXACT CONNECTION REQUIREMENTS AND LOCATION WITH THE DOOR INSTALLER/ARCHITECT PRIOR TO ROUGH-IN.





**ROOF GENERAL NOTES**

- COORDINATE EXACT LOCATIONS OF DEVICES SHOWN WITH OTHER EQUIPMENT.
- COORDINATE WITH MC AND PROVIDE ALL RELAYS, CONNECTIONS, AND ALL DEVICES NECESSARY TO INTERLOCK EXHAUST FANS, DAMPERS, ETC WITH PROPER CONTROL DEVICES.
- COORDINATE EXACT LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR.

**KEYED NOTES**

○ WEATHERPROOF GFCI CONVENIENCE RECEPTACLE SECURELY MOUNTED ON UNISTRUT/KENDORF

DW  
drawn by

TVO  
checked by

SEPTEMBER 2021  
date

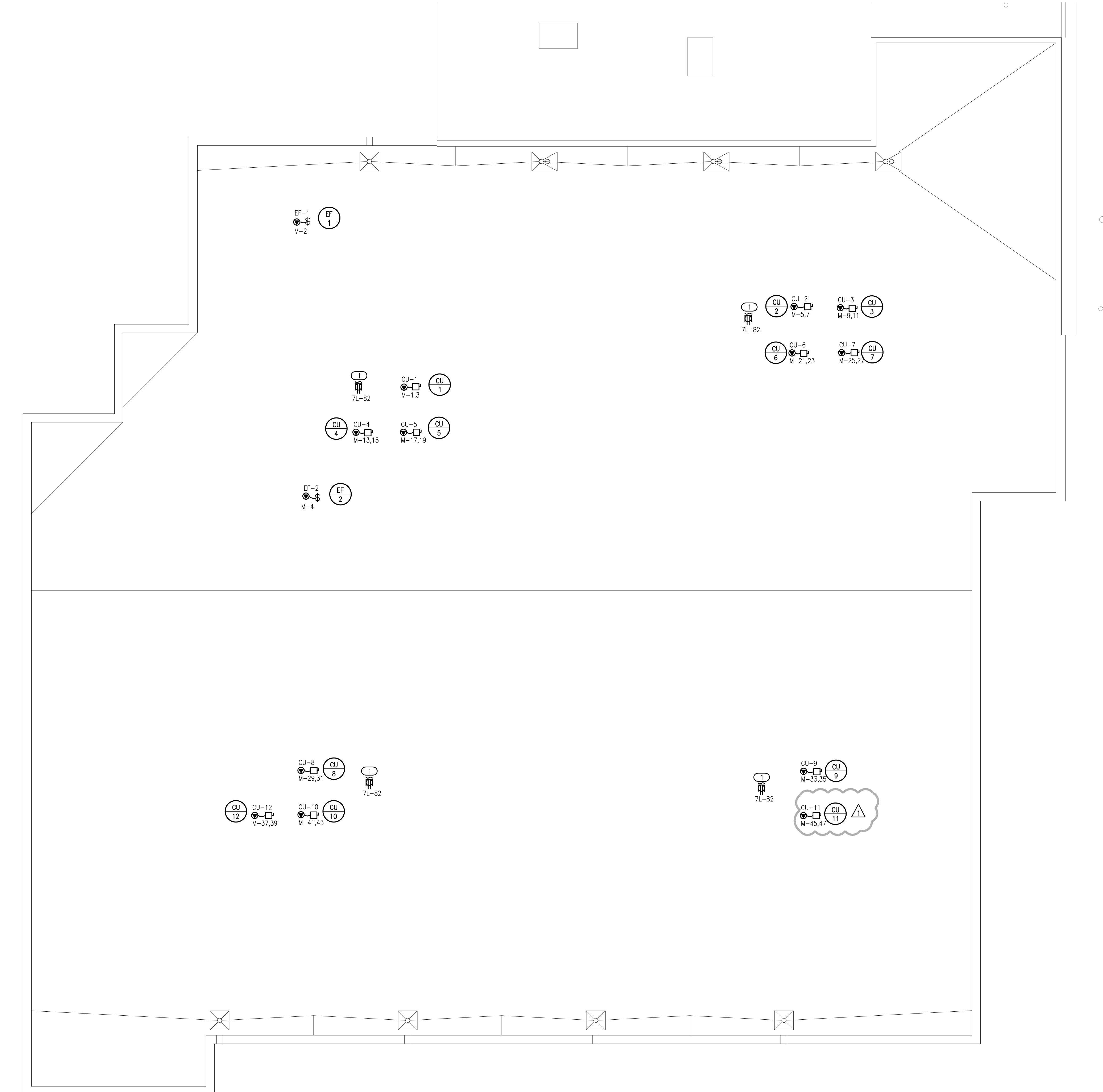
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revisions

MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA



CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:  
**E202**







DW  
drawn by  
TVO  
checked by  
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date  
03/11/22 CB01  
revisions

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MOORE, OKLAHOMA

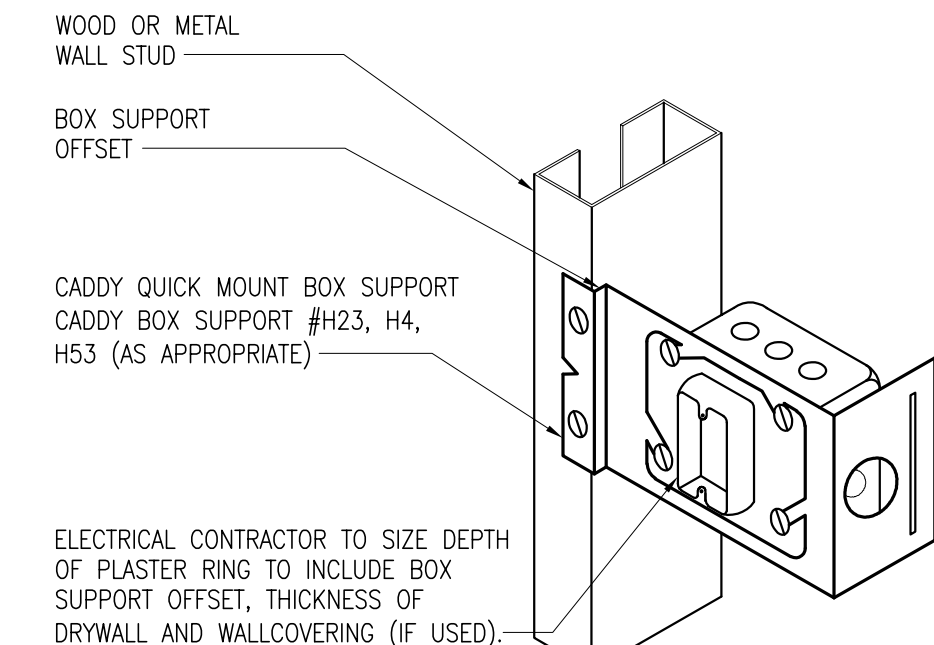


CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

## E501

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ELECTRICAL CONTRACTOR TO SIZE DEPTH OF PLASTER RING TO INCLUDE BOX SUPPORT OFFSET, THICKNESS OF DRYWALL AND WALLCOVERING (IF USED).

SOME EXAMPLES:  
- 3/4" PLASTER RING FOR SINGLE LAYER 5/8" GYPSUM BOARD WALL FINISH  
- 1" PLASTER RING FOR TWO LAYER WALL FINISH 1/2" OVER 1/4"

FOR ALL COMBUSTIBLE WALLS PLASTER RING MUST BE FLUSH WITH OUTER SURFACE OF WALL

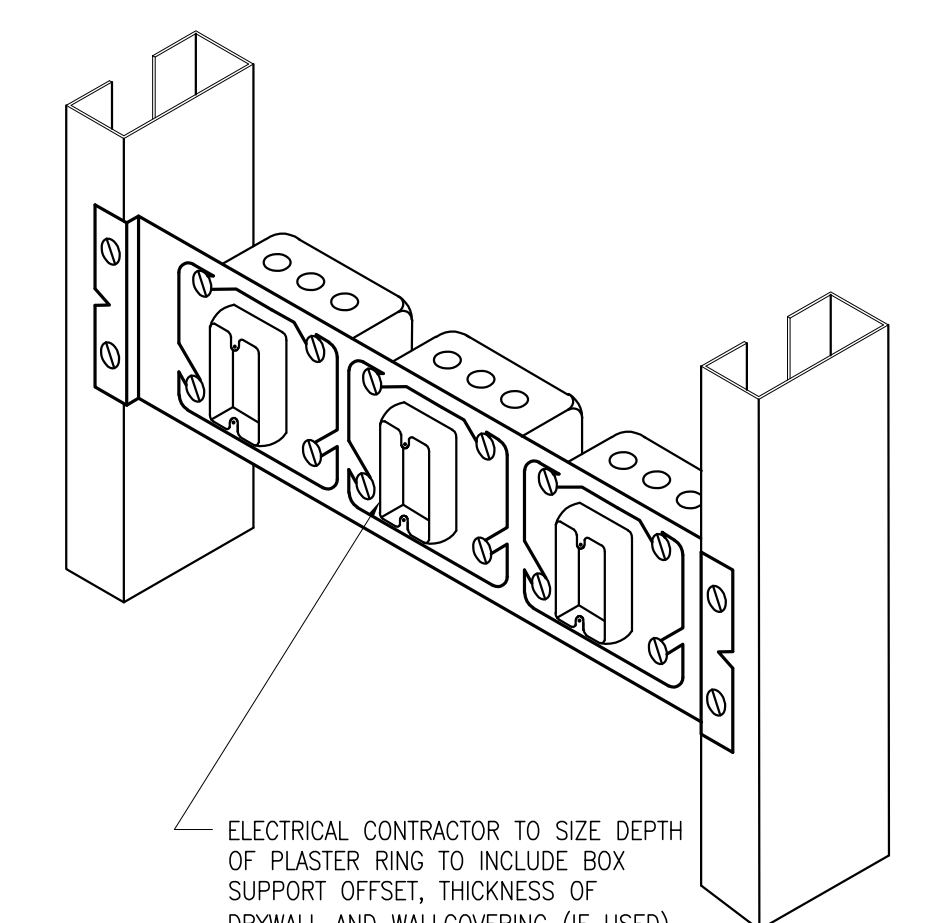
OUTER SURFACE OF FINISHED WALL

COMBUSTIBLE WALLS

FOR ALL NON-COMBUSTIBLE WALLS PLASTER RING MUST BE WITHIN 1/8" FROM OUTER SURFACE

NON-COMBUSTIBLE WALLS

**1 BOX SUPPORT DETAIL**  
NO SCALE



SOME EXAMPLES:  
- 3/4" PLASTER RING FOR SINGLE LAYER 5/8" GYPSUM BOARD WALL FINISH  
- 1" PLASTER RING FOR TWO LAYER WALL FINISH 1/2" OVER 1/4"

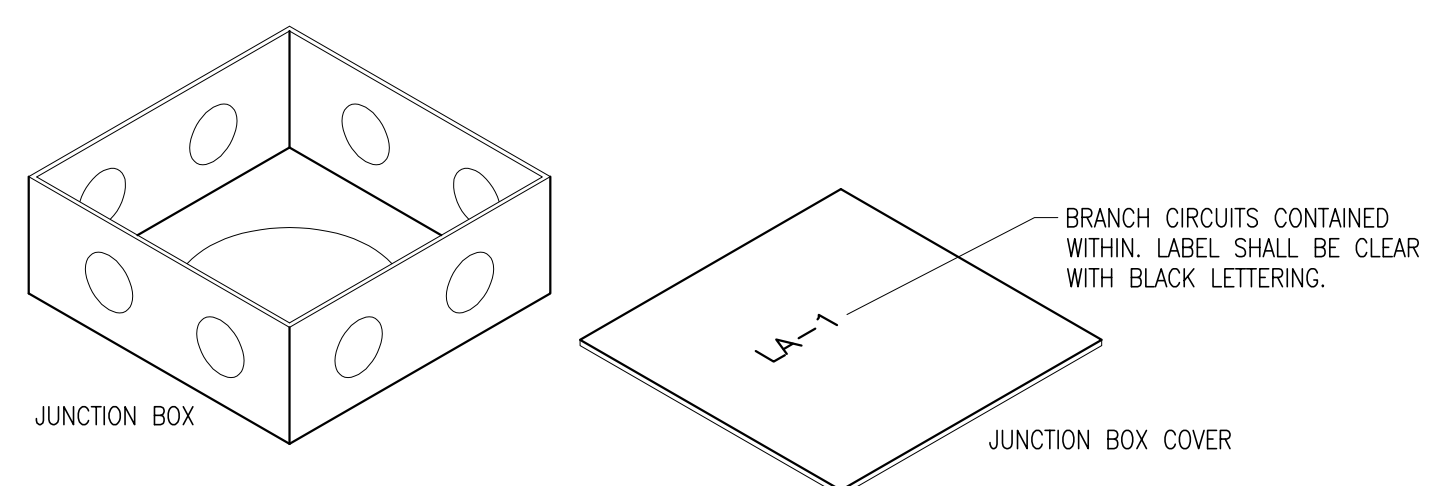
CADDY BOX SUPPORT #RBS16 - FOR STUDS 16" ON CENTER.  
CADDY BOX SUPPORT #RBS24 - FOR STUDS 24" ON CENTER.

CADDY BOX SUPPORT #RBS16 - FOR STUDS 16" ON CENTER.  
CADDY BOX SUPPORT #RBS24 - FOR STUDS 24" ON CENTER.

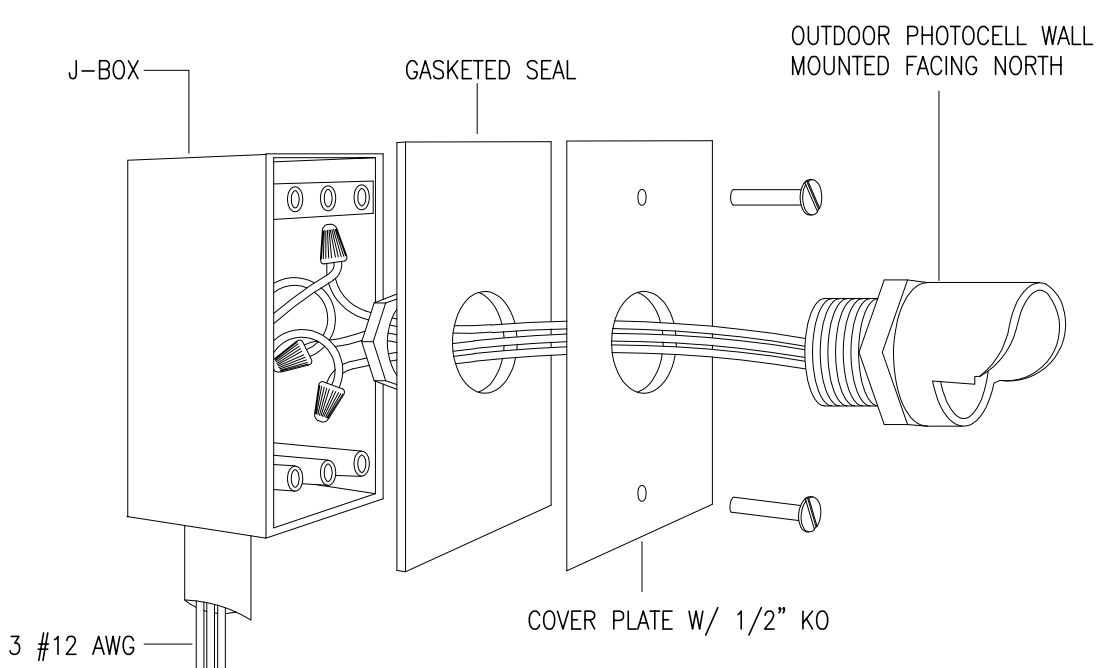
CADDY BOX SUPPORT #RBS16 - FOR STUDS 16" ON CENTER.  
CADDY BOX SUPPORT #RBS24 - FOR STUDS 24" ON CENTER.

CADDY BOX SUPPORT #RBS16 - FOR STUDS 16" ON CENTER.  
CADDY BOX SUPPORT #RBS24 - FOR STUDS 24" ON CENTER.

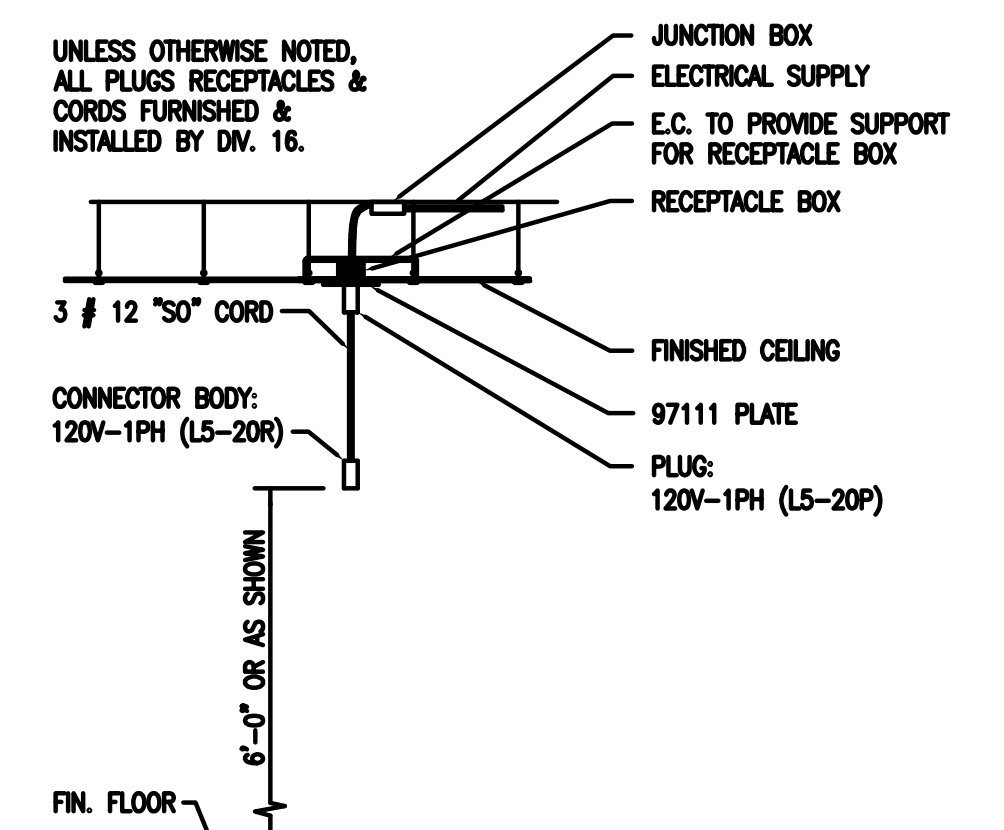
**2 MULTIPLE BOX SUPPORT DETAIL**  
NO SCALE



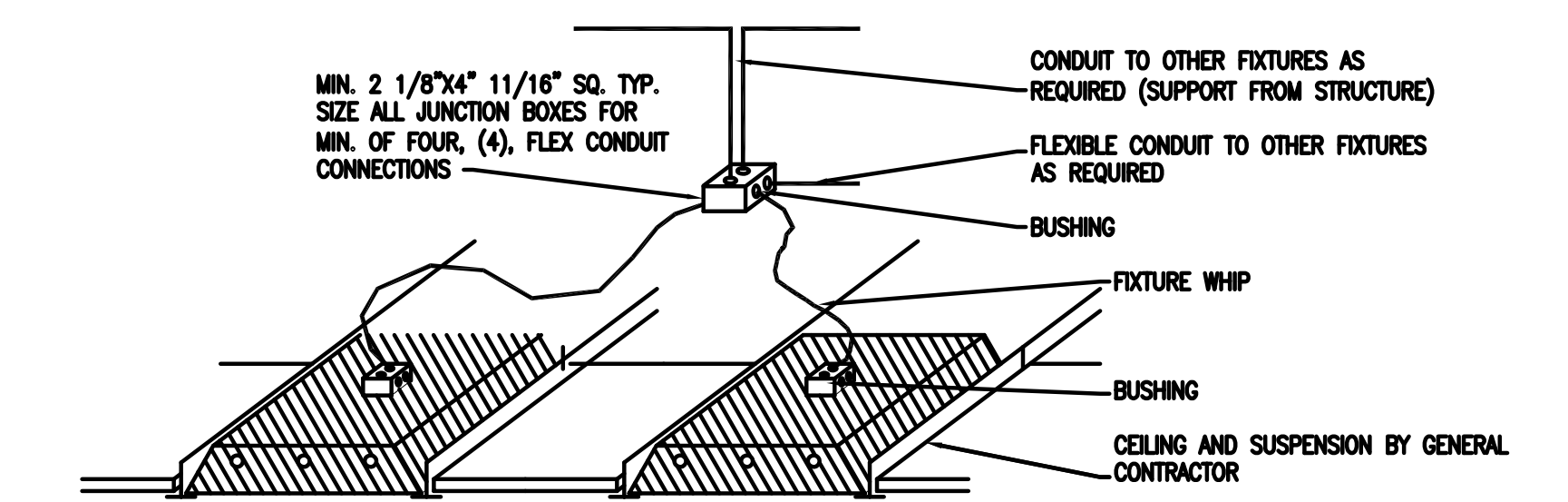
**3 JUNCTION BOX DETAIL**  
NO SCALE



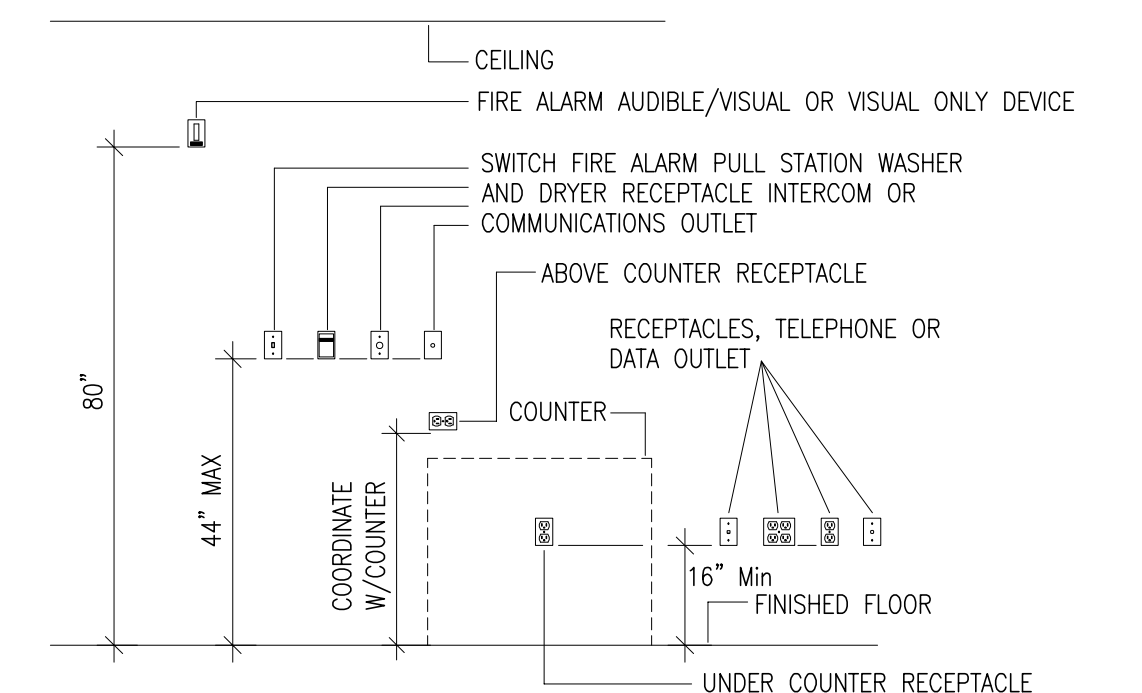
**5 OUTDOOR PHOTOCELL**  
NOT TO SCALE



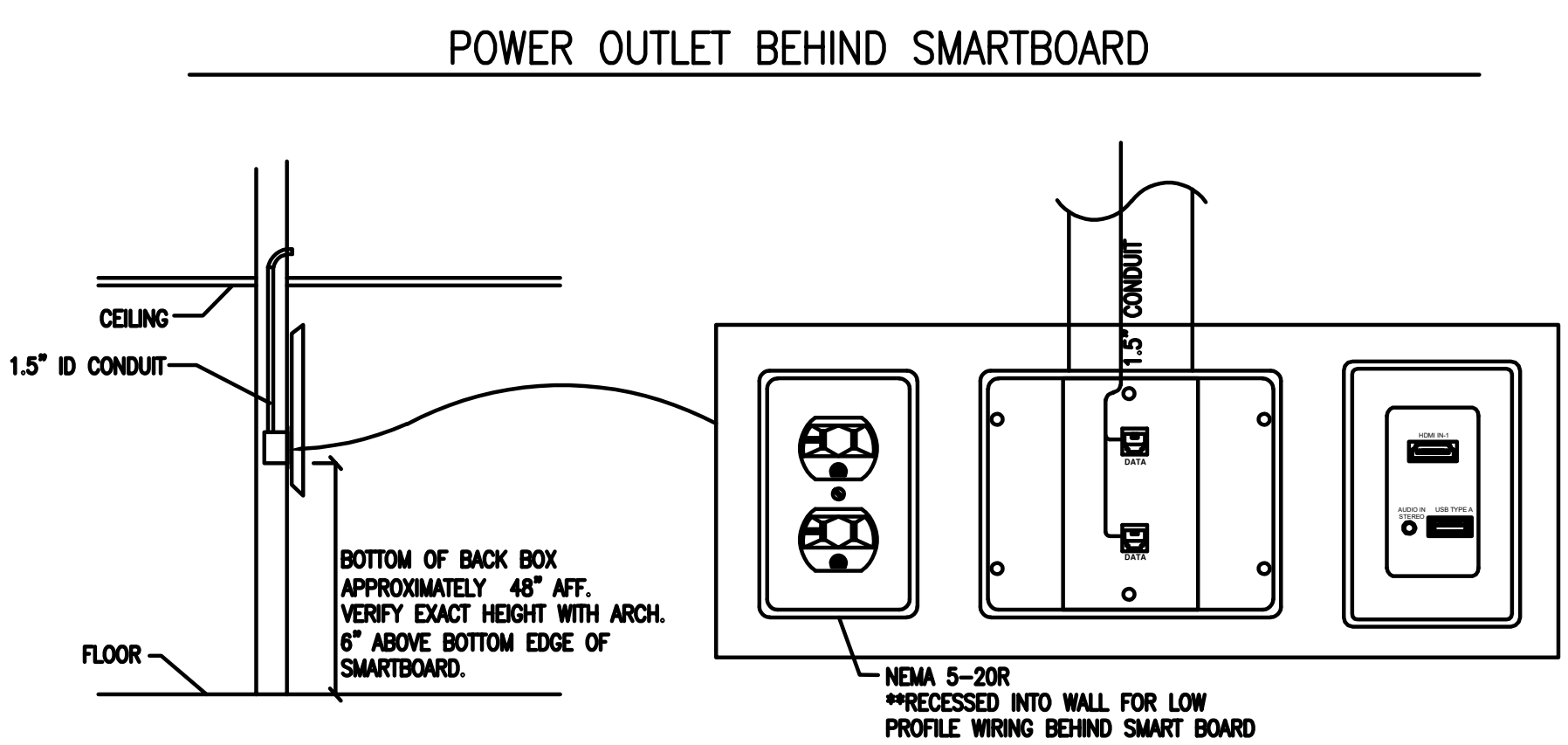
**6 DROP CORD RECEPTACLE**  
NO SCALE



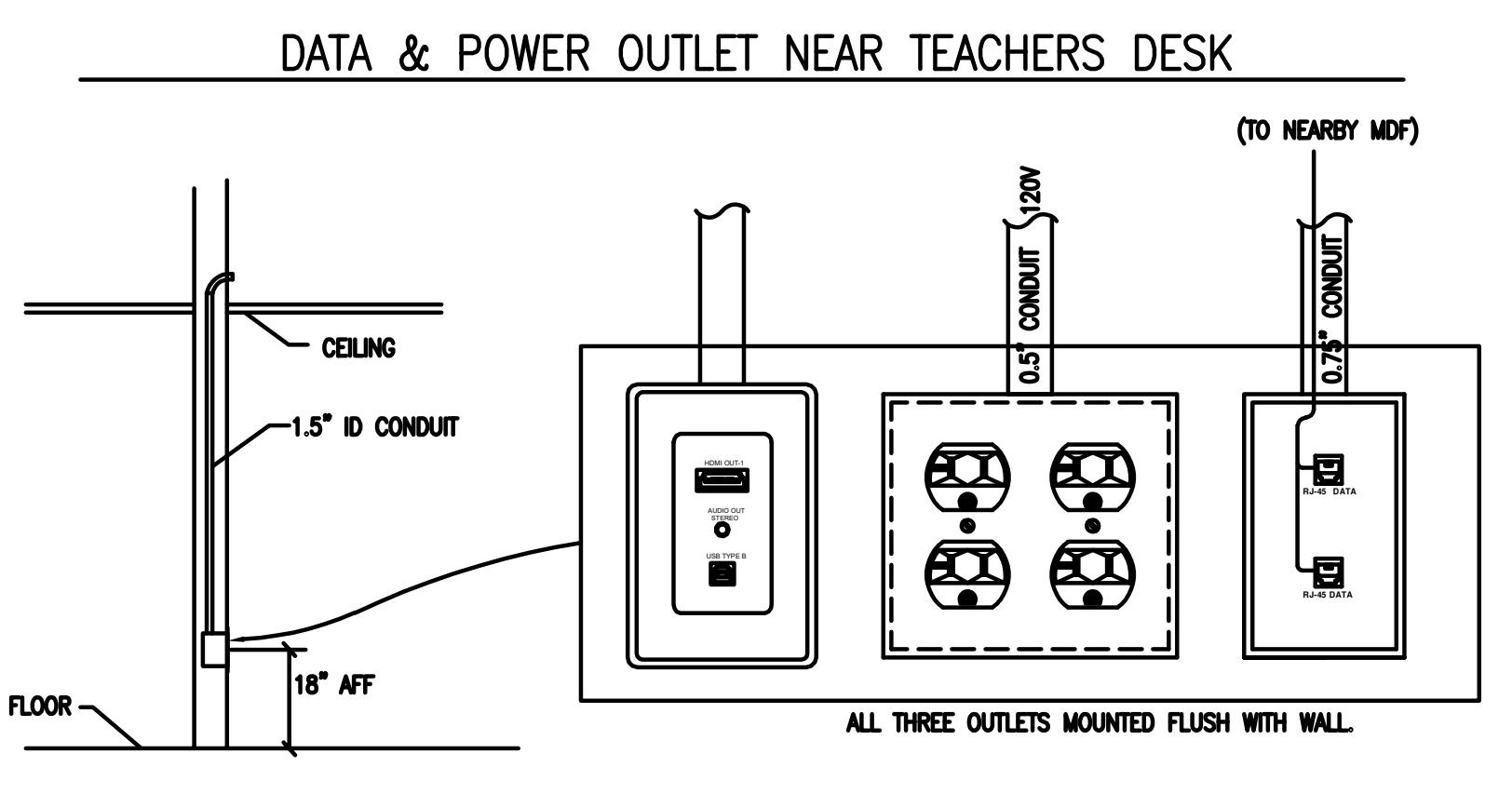
**4 TYP. TROFFER POWER DETAIL**  
NOT TO SCALE



**7 TYP OUTLET MOUNTING DETAIL**  
NOT TO SCALE

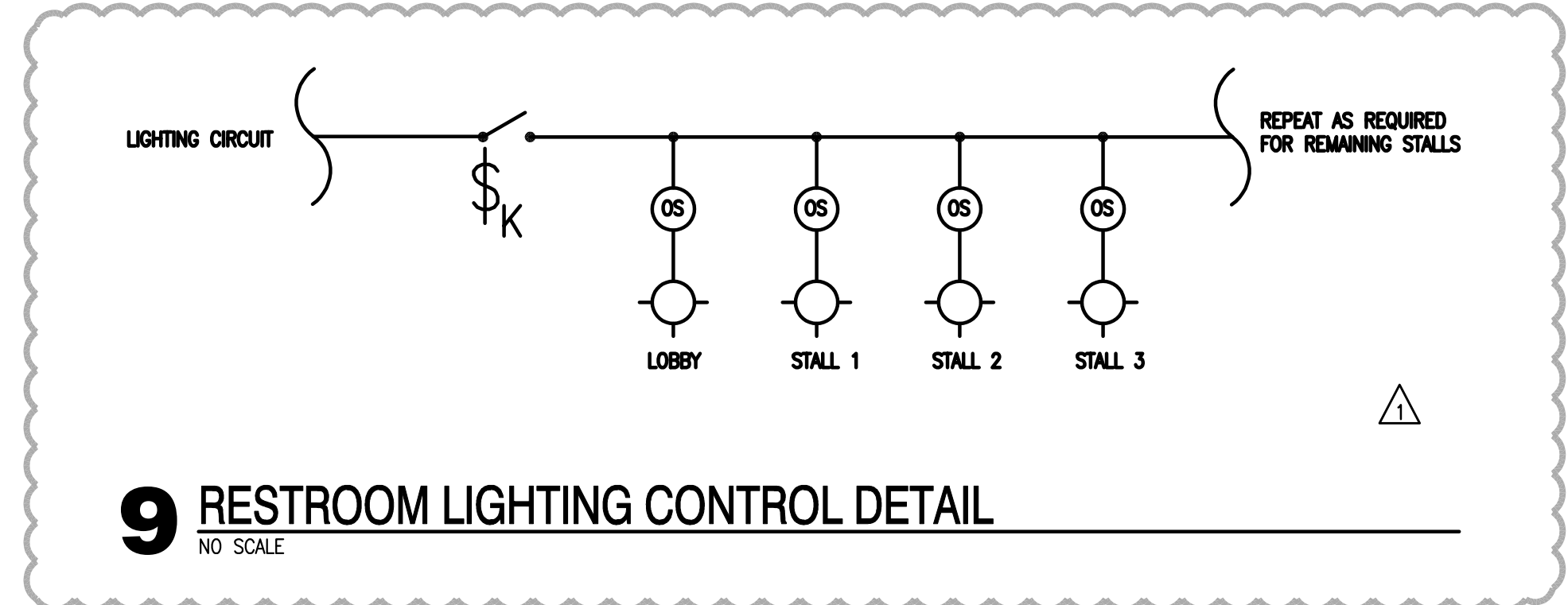


POWER OUTLET BEHIND SMARTBOARD



DATA & POWER OUTLET NEAR TEACHERS DESK

**8 TEACHERS DESK & SMART BOARD WIRING DETAIL**  
NO SCALE



**9 RESTROOM LIGHTING CONTROL DETAIL**  
NO SCALE



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KFC ENGINEERING  
STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



DW  
drawn by  
TVO  
checked by  
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MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA



CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:  
**E601**

Panel	ROOM	MECH/ELEC RM	VOLTS	208Y/120V 3P 4W	AIC	65,000																							
MDPA	MOUNTING SURFACE	BUS AMPS	1200	MAIN BKR	MLO																								
FED FROM	MDP	NEUTRAL	100%	LUGS	STANDARD																								
NOTE																													
CKT #	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	LOAD KVA	CIRCUIT DESCRIPTION																								
1 225/3	61	PANEL 7L	2 400/3	77	PANEL M																								
3			4																										
5			6																										
7 70/3	0	PANEL S	8 20/1	0	SPACE																								
9			10 20/1	0	SPACE																								
11			12 20/1	0	SPACE																								
13 175/3	0	DOUBLE TUB PANEL P	14 20/1	0	SPACE																								
15			16 20/1	0	SPACE																								
17			18 20/1	0	SPACE																								
19 450/3	0	DOUBLE TUB PANEL A	20 20/1	0	SPACE																								
21			22 20/1	0	SPACE																								
23			24 20/1	0	SPACE																								
25 125/3	0	PANEL L	26 20/1	0	SPACE																								
27			28 20/1	0	SPACE																								
29			30 20/1	0	SPACE																								
31 80/3	0	PANEL L2	32 20/1	0	SPACE																								
33			34 20/1	0	SPACE																								
35			36 20/1	0	SPACE																								
37 20/1	0	SPACE	38 20/1	0	SPACE																								
39 20/1	0	SPACE	40 20/1	0	SPACE																								
41 20/1	0	SPACE	42 20/1	0	SPACE																								
<table border="1"> <thead> <tr> <th>CONN KVA</th> <th>CALC KVA</th> <th></th> </tr> </thead> <tbody> <tr> <td>LIGHTING</td> <td>11.9</td> <td>14.8 (125%)</td> </tr> <tr> <td>LARGEST MOTOR</td> <td>5.23</td> <td>1.31 (25%)</td> </tr> <tr> <td>MOTORS</td> <td>0.86</td> <td>0.86 (100%)</td> </tr> </tbody> </table>			CONN KVA	CALC KVA		LIGHTING	11.9	14.8 (125%)	LARGEST MOTOR	5.23	1.31 (25%)	MOTORS	0.86	0.86 (100%)	<table border="1"> <thead> <tr> <th>CONN KVA</th> <th>CALC KVA</th> <th></th> </tr> </thead> <tbody> <tr> <td>RECEPTACLES</td> <td>48.7</td> <td>29.3 (50%&gt;10)</td> </tr> <tr> <td>HEATING</td> <td>23.4</td> <td>0 (0%)</td> </tr> <tr> <td>COOLING</td> <td>73.6</td> <td>73.6 (100%)</td> </tr> </tbody> </table>			CONN KVA	CALC KVA		RECEPTACLES	48.7	29.3 (50%>10)	HEATING	23.4	0 (0%)	COOLING	73.6	73.6 (100%)
CONN KVA	CALC KVA																												
LIGHTING	11.9	14.8 (125%)																											
LARGEST MOTOR	5.23	1.31 (25%)																											
MOTORS	0.86	0.86 (100%)																											
CONN KVA	CALC KVA																												
RECEPTACLES	48.7	29.3 (50%>10)																											
HEATING	23.4	0 (0%)																											
COOLING	73.6	73.6 (100%)																											
TOTAL LOAD			120																										
BALANCED 3-PHASE LOAD			333 A																										
PHASE A			101%																										
PHASE B			102%																										
PHASE C			97%																										

Panel	ROOM	MECH/ELEC RM	VOLTS	208Y/120V 3P 4W	AIC	65,000																				
M	MOUNTING SURFACE	BUS AMPS	400	MAIN BKR	MLO																					
FED FROM	MDPA	NEUTRAL	100%	LUGS	STANDARD																					
NOTE																										
CKT #	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	LOAD KVA	CIRCUIT DESCRIPTION																					
1 45/2	4.69	CU-1	a 2 20/1	0.1	EF-1																					
3			b 4 20/1	0.1	EF-2																					
5 50/2	5.23	CU-2	c 6 20/1	1.66	F-1																					
7			d 8 20/1	1.66	F-2																					
9 45/2	4.69	CU-3	e 10 20/1	1.66	F-3																					
11			f 12 20/1	1.66	F-4																					
13 45/2	4.69	CU-4	g 14 20/1	1.66	F-5																					
15			h 16 20/1	1.66	F-6																					
17 45/2	4.69	CU-5	i 18 20/1	1.66	F-7																					
19			j 20 20/1	1.92	F-8																					
21 45/2	4.69	CU-6	k 22 20/1	1.92	F-9																					
23			l 24 20/1	1.66	F-10																					
25 45/2	4.69	CU-7	m 26 20/1	1.66	F-11																					
27			n 28 20/1	1.66	F-12																					
29 50/2	5.23	CU-8	o 30 20/1	0.24	WH-1																					
31			p 32 20/1	0.24	WH-2																					
33 50/2	5.23	CU-9	q 34 20/1	0.18	CP-1																					
35			r 36 20/1	0.54	TRAP PRIMER																					
37 45/2	4.69	CU-12	s 38 20/1	0.54	TRAP PRIMER																					
39			t 40 20/1	0.54	TRAP PRIMER																					
41 45/2	4.69	CU-10	u 42 20/1	0.72	TRAP PRIMER																					
43			v 44 20/1	0.72	TRAP PRIMER																					
45 45/2	4.69	CU-11	w 46 20/1	0	SPACE																					
47			x 48 20/1	0	SPACE																					
49 20/1	0	SPACE	y 50 20/1	0	SPACE																					
51 20/1	0	SPACE	z 52 20/1	0	SPACE																					
53 20/1	0	SPACE	aa 54 20/1	0	SPACE																					
<table border="1"> <thead> <tr> <th>CONN KVA</th> <th>CALC KVA</th> <th></th> </tr> </thead> <tbody> <tr> <td>LARGEST MOTOR</td> <td>5.23</td> <td>1.31 (25%)</td> </tr> <tr> <td>MOTORS</td> <td>0.86</td> <td>0.86 (100%)</td> </tr> </tbody> </table>			CONN KVA	CALC KVA		LARGEST MOTOR	5.23	1.31 (25%)	MOTORS	0.86	0.86 (100%)	<table border="1"> <thead> <tr> <th>CONN KVA</th> <th>CALC KVA</th> <th></th> </tr> </thead> <tbody> <tr> <td>RECEPTACLES</td> <td>3.06</td> <td>3.06 (50%&gt;10)</td> </tr> <tr> <td>HEATING</td> <td>20.4</td> <td>0 (0%)</td> </tr> <tr> <td>COOLING</td> <td>78.3</td> <td>78.3 (100%)</td> </tr> </tbody> </table>			CONN KVA	CALC KVA		RECEPTACLES	3.06	3.06 (50%>10)	HEATING	20.4	0 (0%)	COOLING	78.3	78.3 (100%)
CONN KVA	CALC KVA																									
LARGEST MOTOR	5.23	1.31 (25%)																								
MOTORS	0.86	0.86 (100%)																								
CONN KVA	CALC KVA																									
RECEPTACLES	3.06	3.06 (50%>10)																								
HEATING	20.4	0 (0%)																								
COOLING	78.3	78.3 (100%)																								
TOTAL LOAD			83.5																							
BALANCED 3-PHASE LOAD			232 A																							
PHASE A			101%																							
PHASE B			97.8%																							
PHASE C			101%																							

MECHANICAL EQUIPMENT SCHEDULE	CALLOUT	DESCRIPTION	VOLTS	HP	KVA	MCA	MOCP	CIRCUIT	WIRE CALLOUT	DISCONNECT	DISC FURN BY	DISC INST BY
CP-1	CIRCULATION PUMP	120V 1P 2W		0.18		20	M-34	3/4"C,1#12,12N,12G	TOGGLE SWITCH	EC	EC	
CU-1	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-1,3	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-2	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-5,7	3/4"C,2#8,10G	NON-FUSED	EC	EC	
CU-3	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-9,11	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-4	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-13,15	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-5	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-17,19	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-6	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-21,23	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-7	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-25,27	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-8	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-29,31	3/4"C,2#8,10G	NON-FUSED	EC	EC	
CU-9	CONDENSING UNIT	208V 2P 2W		5.23	31.4	50	M-33,35	3/4"C,2#8,10G	NON-FUSED	EC	EC	
CU-10	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-41,43	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-11	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-45,47	3/4"C,2#10,10G	NON-FUSED	EC	EC	
CU-12	CONDENSING UNIT	208V 2P 2W		4.69	28.2	45	M-37,39	3/4"C,2#10,10G	NON-FUSED	EC	EC	
EF-1	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	M-2	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MC	
EF-2	EXHAUST FAN	120V 1P 2W	F HP	0.1	3.8	20	M-4	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MC	
EFH-1	ELECTRIC FAN FORCED HEATER	208V 2P 2W		1.5	9	20	7L-86,88	3/4"C,2#12,12G	TOGGLE SWITCH	MFR	EC	
EFH-2	ELECTRIC FAN FORCED HEATER	208V 2P 2W		1.5	9	20	7L-90,92	3/4"C,2#12,12G	TOGGLE SWITCH	MFR	EC	
F-1	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-6	3/4"C,1#12,12N,12G	TOGGLE SWITCH	MFR	MFR	
F-2	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-8	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-3	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-10	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-4	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-12	3/4"C,1#12,12N,12G	TOGGLE SWITCH	MFR	MFR	
F-5	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-14	3/4"C,1#12,12N,12G	TOGGLE SWITCH	MFR	MFR	
F-6	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-16	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-7	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-18	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-8	GAS FURNACE	120V 1P 2W	1 HP	1.92	14.7	20	M-20	3/4"C,1#12,12N,12G	TOGGLE SWITCH	MFR	MFR	
F-9	GAS FURNACE	120V 1P 2W	1 HP	1.92	14.7	20	M-22	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-10	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-24	3/4"C,1#12,12N,12G	TOGGLE SWITCH	MFR	MFR	
F-11	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-26	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
F-12	GAS FURNACE	120V 1P 2W	3/4 HP	1.66	11.5	20	M-28	3/4"C,1#10,10N,10G	TOGGLE SWITCH	MFR	MFR	
WH-1	WATER HEATER	120V 1P 2W		0.24	2	20	M-30	3/4"C,1#12,12N,12G	DUPLEX RECEPTACLE	EC	EC	
WH-2	WATER HEATER	120V 1P 2W		0.24	2	20	M-32	3/4"C,1#12,12N,12G	DUPLEX RECEPTACLE	EC	EC	

Panel	ROOM	MECH/ELEC RM	VOLTS	208Y/120V 3P 4W	AIC	65,000
7L	MOUNTING SURFACE	BUS AMPS	225	MAIN BKR	MLO	
FED FROM	MDPA	NEUTRAL	100%	LUGS	STANDARD	
NOTE	DOUBLE-TUB					
CKT #	LOAD KVA	CIRCUIT DESCRIPTION	CKT #	LOAD KVA	CIRCUIT DESCRIPTION	
1 20/1	1.05	LIGHTING	a 2 20/1	1	FRIDGE	
3 20/1	1.65	LIGHTING	b 4 20/1	1.5	FREEZER	
5 20/1	1.49	LIGHTING	c 6 20/1	1.5	FREEZER	
7 20/1	0.796	LIGHTING	d 8 20/1	1	FRIDGE	
9 20/1	1.72	LIGHTING	e 10 20/1	1.5	FREEZER	
11 20/1	1.09	LIGHTING	f 12 20/1	1	FRIDGE	
13 20/1	1.72	LIGHTING	g 14 20/1	0.3	WATER COOLER	
15 20/1	1.72	LIGHTING	h 16 20/1	0.3	WATER COOLER	
17 20/1	0.314	LIGHTING	i 18 20/1	0.72	RM 16 RECEPTACLE, SMARTBOARD	
19 20/1	0.312	LIGHTING	j 20 20/1	0.36	RM 16 RECEPTACLE	
21 20/1	0.72	RM 2 RECEPTACLE	k 22 20/1	0.54	RM 16 RECEPTACLE	
23 20/1	0.72	RM 4 RECEPTACLE, SMARTBOARD	l 24 20/1	0.36	RM 16 DROP CORDS	
25 20/1	0.54	RM 4 RECEPTACLE	m 26 20/1	0.36	RM 16 DROP CORDS	
27 20/1	0.54	RM 4 RECEPTACLE	n 28 20/1	0.36	RM 16 RECEPTACLE	
29 20/1	0.72	RM 7 RECEPTACLE, SMARTBOARD	o 30 20/1	0.54	RM 16 RECEPTACLE	
31 20/1	0.54	RM 7 RECEPTACLE	p 32 20/1	0.54	RM 17 RECEPTACLE	
33 20/1	0.54	RM 7 RECEPTACLE	q 34 20/1	0.36	RM 18 RECEPTACLE	
35 20/1	0.54	RM 9 RECEPTACLE	r 36 20/1	0.36	RM 16 DROP CORD	
37 20/1	0.54	RM 9 RECEPTACLE	s 38 20/1	0.36	RM 18 RECEPTACLE	
39 20/1	0.72	RM 9 RECEPTACLE, SMARTBOARD	t 40 20/1	0.54	RM 18 RECEPTACLE	
41 20/1	0.54	EXTERIOR RECEPTACLE, RECEPTACLE, VESTIBULE RECEPTACLE	u 42 20/1	0.36	RM 16 DROP CORD	
43 20/1	0.54	RESTROOM RECEPTACLE	v 44 20/1	0.		





BA  
drawn by  
DMG  
checked by  
SEPTEMBER 2021  
date  
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revisions

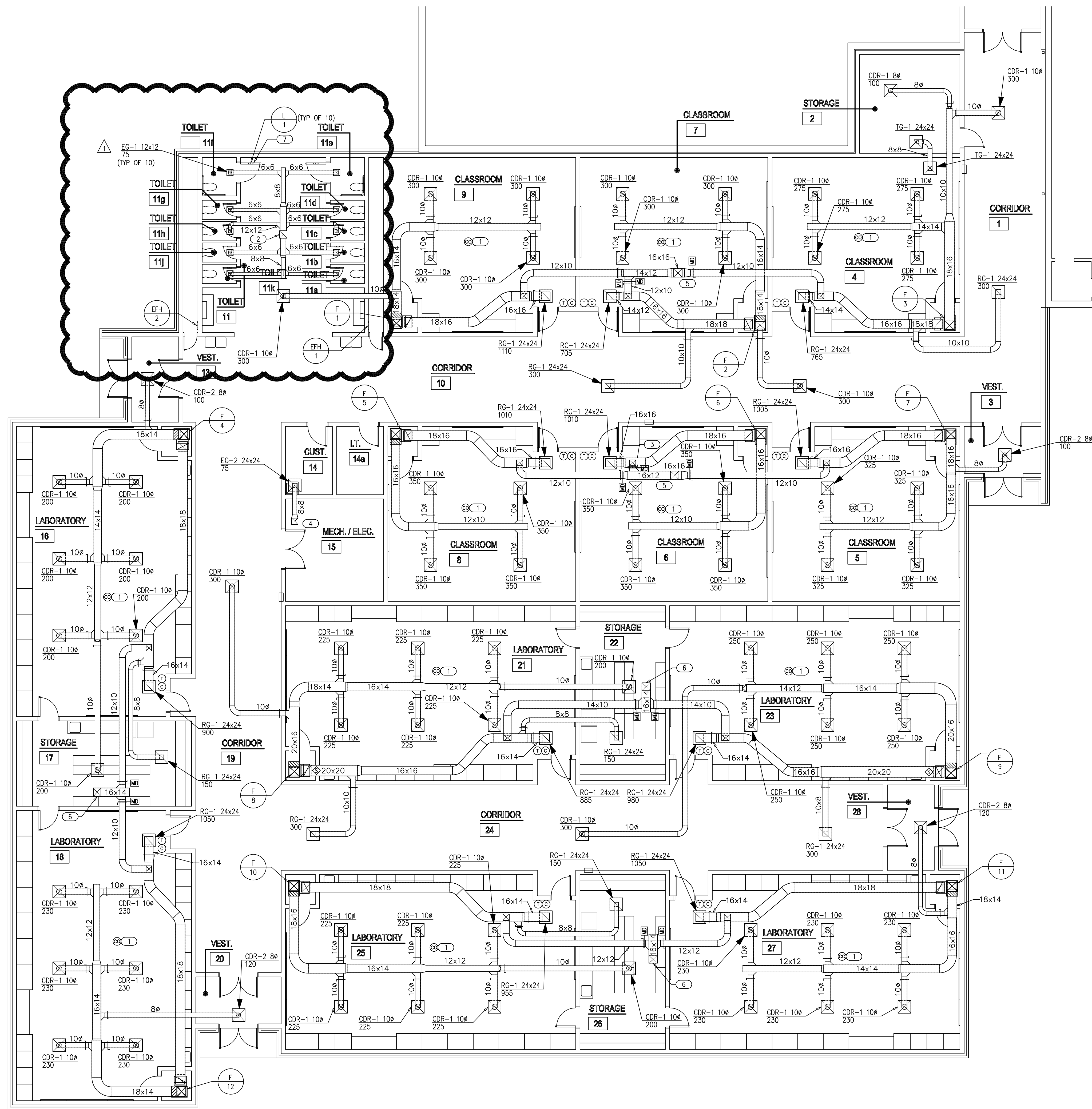
MOORE PUBLIC SCHOOLS  
BOARD OF EDUCATION  
MOORE, OKLAHOMA



CLASSROOM ADDITION  
HIGHLAND EAST  
JUNIOR HIGH SCHOOL

sheet no:

## M101



### GENERAL NOTES

- COORDINATE WORK WITH ALL TRADES.
- COORDINATE LOCATION OF THERMOSTATS AND CARBON MONOXIDE DETECTOR WITH E.C. ROUGH-IN BY E.C.
- COORDINATE CARBON DIOXIDE SENSOR LOCATION WITH EARTHSMART PRIOR TO INSTALLATION.
- M.C. SHALL PROVIDE CARBON MONOXIDE SENSORS WHERE NEEDED PER CODE FOR EXISTING EQUIPMENT THROUGHOUT THE ENTIRE BUILDING. M.C. IS RESPONSIBLE FOR SURVEYING ENTIRE BUILDING AND LOCATING FUEL BURNING HVAC EQUIPMENT FOR SENSOR LOCATIONS. COORDINATE WITH E.C. FOR POWER CONNECTIONS.
- M.C. SHALL ROUTE CONDENSATE TO OPEN SITE AT RESTROOM WALL. COORDINATE WITH P.C. FOR EXACT LOCATION.

### KEYED NOTES

- CARBON MONOXIDE DETECTOR TO BE INSTALLED ACCORDING TO ALL APPLICABLE CODES. DETECTOR SHALL BE INSTALLED CENTRALLY ON CEILING. ALSO INCLUDE BATTERY BACKUP IN EVENT PRIMARY POWER IS INTERRUPTED. ALARM SIGNAL SHALL BE ROUTED TO ADMINISTRATION OFFICE. COORDINATE WITH E.C. WITH PRIMARY POWER CONNECTION AND SYSTEM CONNECTION.
- DUCT UP 14 X 14 TO CONNECT TO ROOF EXHAUST OPENING 19 X 19.
- DUCT 12 X 10 INTO RETURN DUCT.
- DUCT UP 12 X 12 TO CONNECT TO ROOF EXHAUST OPENING 19 X 19.
- DUCT UP 16 X 16 TO CONNECT TO ROOF HOOD.
- DUCT UP 16 X 14 TO CONNECT TO ROOF HOOD.
- PLACE DOOR LOUVER 8" FROM BOTTOM OF DOOR.





CONDENSING UNIT SCHEDULE														
CU #	CONDENSING UNIT						EVAPORATOR UNIT							NOTES
	NOMINAL TONNAGE	ELEC. CHAR	MCA	MCCP	S.E.E.R	WEIGHT (LBS)	MANUFACTURER & MODEL NO.	CFM	MAX S.P.	BLOWER MOTOR	ELEC. CHAR	MCA	MANUFACTURER & MODEL NO.	
1	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
2	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
3	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
4	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
5	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
6	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
7	4	208/1	28.2	45	17	295	YORK YFK48B21S	1400	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
8	5	208/1	31.4	50	17	295	YORK YFK60B21S	1850	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM60CX2	1-7
9	5	208/1	31.4	50	17	295	YORK YFK60B21S	1800	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM60CX2	1-7
10	4	208/1	28.2	45	17	295	YORK YFK48B21S	1550	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
11	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7
12	4	208/1	28.2	45	17	295	YORK YFK48B21S	1500	0.3	-	SEE FURNACE SCHEDULE	-	YORK CM48CBCA1	1-7

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. E.C. TO PROVIDE AND INSTALL POWER DISCONNECT FOR UNIT. COORDINATE WITH M.C.  
2. M.C. TO INCLUDE PRE-CHARGED LINE KIT. INSULATE SUCTION LINE.  
3. TWO STAGE COOLING.  
4. FOR LINE LENGTH EXCEEDING 50', M.C. MUST PROVIDE FACTORY DESIGNED AND FACTORY OR FIELD FABRICATED REFRIGERANT PIPING.  
5. MOUNT UNITS ON CONDENSING UNIT SUPPORTS RE: 10/M501 FOR MORE INFORMATION.  
6. INSULATE SUCTION LINE WITH 5/8" AP ARMAFLEX INSULATION OR EQUAL. SEAL ALL JOINTS WATER TIGHT TO PREVENT CONDENSATE IN THE CEILING.  
7. PROVIDE UNIT WITH HAIL GUARD.

GAS FURNACE SCHEDULE																
F #	TYPE	INPUT MBH	OUTPUT MBH	CFM	MIN. F.A.	EXT. S.P.	HEAT EXCH. MTL	BLOWER				FILTER MERV 8 MIN.	MANUFACTURER & MODEL NO.	NOTES		
								SIZE	DRIVE	H.P.	ELEC. CHAR					
1	VERT	80	77	1500	390	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
2	VERT	80	77	1500	495	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
3	VERT	80	77	1500	435	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
4	VERT	80	77	1500	450	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
5	VERT	80	77	1400	390	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
6	VERT	80	77	1400	390	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
7	VERT	80	77	1400	395	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
8	VERT	100	96	1850	515	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1,2
9	VERT	100	96	1800	520	0.6	ALUMINIZED STL	11X11	DIRECT	1	120/1	HOT S	3"	2" TA	YORK TM9V100C20MP12C	1,2
10	VERT	80	77	1550	445	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
11	VERT	80	77	1500	450	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2
12	VERT	80	77	1500	450	0.6	ALUMINIZED STL	11X10	DIRECT	3/4	120/1	HOT S	3"	2" TA	YORK TM9V080C16MP12C	1,2

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. PROVIDE CONCENTRIC VENT. INSTALL PER MANUFACTURER INSTRUCTIONS. MAINTAIN MINIMUM CLEARANCES: 36" BETWEEN VENTS, 10'-0" FROM ANY FRESH AIR INTAKE.  
2. PROVIDE CO<sub>2</sub> SENSOR. INSTALLATION BY CONTROLS CONTRACTOR. INTERLOCK CO<sub>2</sub> SENSOR WITH MOTORIZED DAMPER IN OUTSIDE AIR DUCT.  
3. PROVIDE FURNACE WITH 2 STAGE HEATING.

ELECTRIC FAN FORCED HEATER SCHEDULE													
EFH #	ROOM NO.	CFM	WALL OR CEILING	KW	MOUNTING	ELECTRICAL CHAR	AMPS	SPEEDS	CONTROL	RPM	MANUFACTURER & MODEL NUMBER	NOTES	
													1
2	CHASE	100	WALL	1.5	RECESSED	208/1	7.2	1	INT STAT	-	BERKO FRC-4024	1-4	

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. PROVIDE INTERNAL THERMOSTAT.  
2. RECESSED MOUNTED UNIT. PROVIDE RECESSED MOUNTING KIT.  
3. PROVIDE BUILT-IN DISCONNECT.  
4. WALL MOUNTING HEIGHT AFF AT A MINIMUM OF 18" OR PER MANUFACTURER'S RECOMMENDATION.

LOUVER SCHEDULE									
L #	CONNECTED TO	SIZE (N) (WXH)	MINIMUM FREE AREA	FLANGE	CONSTRUCTION	INCLUDE MOD	MANUFACTURER AND MODEL NUMBER	COMMENTS	NOTES

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ALL NECESSARY DIMENSION, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. PROVIDE PAINTED KYNAR FINISH. COLOR BY ARCHITECT.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE					
PLAN SYMBOL	DESCRIPTION	MANUFACTURER & MODEL NO.	MATERIAL	FINISH	NOISE CRITERIA
CDR-1 100	ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, ADJUSTABLE CORE, FOR LAY-IN CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
CDR-2 80	ROUND NECK, 4-WAY DEFLECTION CEILING DIFFUSER, ADJUSTABLE CORE, FOR CEILING INSTALLATION.	PRICE SCD (4C)	STEEL	WHITE	-
RG-1 24X24	FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
TG-1 24X24	FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR LAY-IN CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-
EG-2 24X24	FIXED CORE OF 1/2"X1/2"X1/2" FABRICATED ALUMINUM SQUARES, FLAT FRAME WITH 1 1/4" MARGIN, FOR CEILING INSTALLATION.	PRICE 80	ALUMINUM	WHITE	-

NOTES:  
SEE PLANS FOR QUANTITY AND SIZES.  
M.C. TO FIELD VERIFY CEILING TYPE FOR ALL GRD BEFORE PURCHASING EQUIPMENT. PROVIDE REQUIRED MOUNTING.

DUCTWORK/INSULATION SCHEDULE												
SYSTEM	LOW PRESSURE			MED. PRESS		HIGH PRESS.		INSULATION			NOTES	
	MAX. PRES.	SEAL		MAX PRES.	SEAL A	MAX PRES.	SEAL A	INTERNAL	THICKNESS	EXTERNAL		THICKNESS
		A	B									
SUPPLY AIR WITHIN 10' OF UNIT	2"	X	-	-	-	-	-	YES	1"	NO	-	-
SUPPLY AIR BEYOND 10' OF UNIT	2"	X	-	-	-	-	-	NO	-	YES	2" FSK	-
RETURN AIR WITHIN 10' OF UNIT	2"	-	X	-	-	-	-	YES	1"	NO	-	-
RETURN AIR BEYOND 10' OF UNIT	2"	-	X	-	-	-	-	NO	-	YES	2" FSK	-
OUTSIDE AIR/MIXED AIR	2"	-	X	-	-	-	-	NO	-	YES	3" FSK	-

NOTES:  
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ROOF HOOD SCHEDULE								
RH #	THROAT SIZE DIMENSION (N)	CFM	THROAT AREA (FT <sup>2</sup> )	DAMPER BDD OR MOD	CONSTRUCTION	MANUFACTURER & MODEL NO.	COMMENTS	NOTES
2	20X20	1,175	3.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL
3	16X18	900	2.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL
4	18X18	1,035	2.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL
5	16X18	895	2.00	MOD	ALUMINUM	GREENHECK FGI	COLOR BY ARCHITECT	ALL

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. M.C. TO PROVIDE ROOF HOOD WITH ALUMINUM BIRDSCREEN.  
2. M.C. SHALL PROVIDE ROOF CURB. CURB INSTALLATION BY G.C.  
3. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.

EXHAUST FAN SCHEDULE															
EF #	LOCATION	SYSTEM	CFM	SP	FAN RPM	MOTOR H.P.	ELEC CHAR	AMPS	DAMPER BDD OR MOD	DRIVE	FAN TYPE	INTERLOCK/CONTROL	WEIGHT	MANUFACTURER & MODEL NUMBER	NOTES
2	ROOF	EXHAUST	75	0.35	944	FRAC.	120/1	3.8	MOD	DIRECT	CENT	LIGHTS	38	GREENHECK G-097-VG	ALL

NOTES:  
M.C. IS RESPONSIBLE FOR PROVIDING ANY AND ALL NECESSARY DIMENSIONAL, ELECTRICAL, MECHANICAL, AND STRUCTURAL ALTERATIONS NECESSITATED BY PROVIDING ALTERNATE EQUIPMENT.  
1. PROVIDE ELECTRONIC SPEED CONTROL MOUNTED ABOVE ACCESSIBLE CEILING.  
2. M.C. SHALL PROVIDE LOW VOLTAGE MOTORIZED DAMPER.  
3. OPERATION OF DEVICE ON OCCUPIED MODE OF RTU OR SWITCH WITH LIGHTS. SEE INTERLOCK/CONTROL COLUMN FOR TYPE.



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KFC ENGINEERING

STRUCTURAL

SALAS O'BRIEN

MECHANICAL / ELECTRICAL



BA

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DMG

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SEPTEMBER 2021

date

03/11/22 CB01

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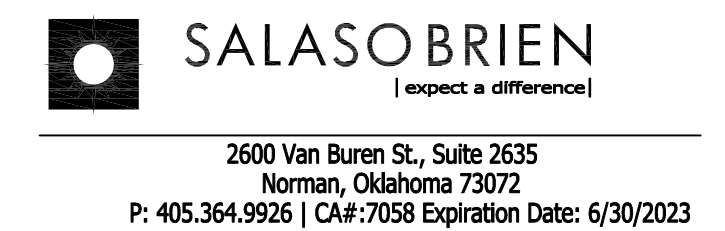
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HIGHLAND EAST  
JUNIOR HIGH SCHOOL

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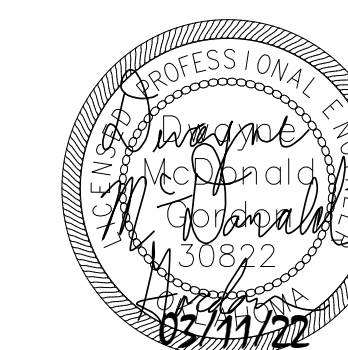


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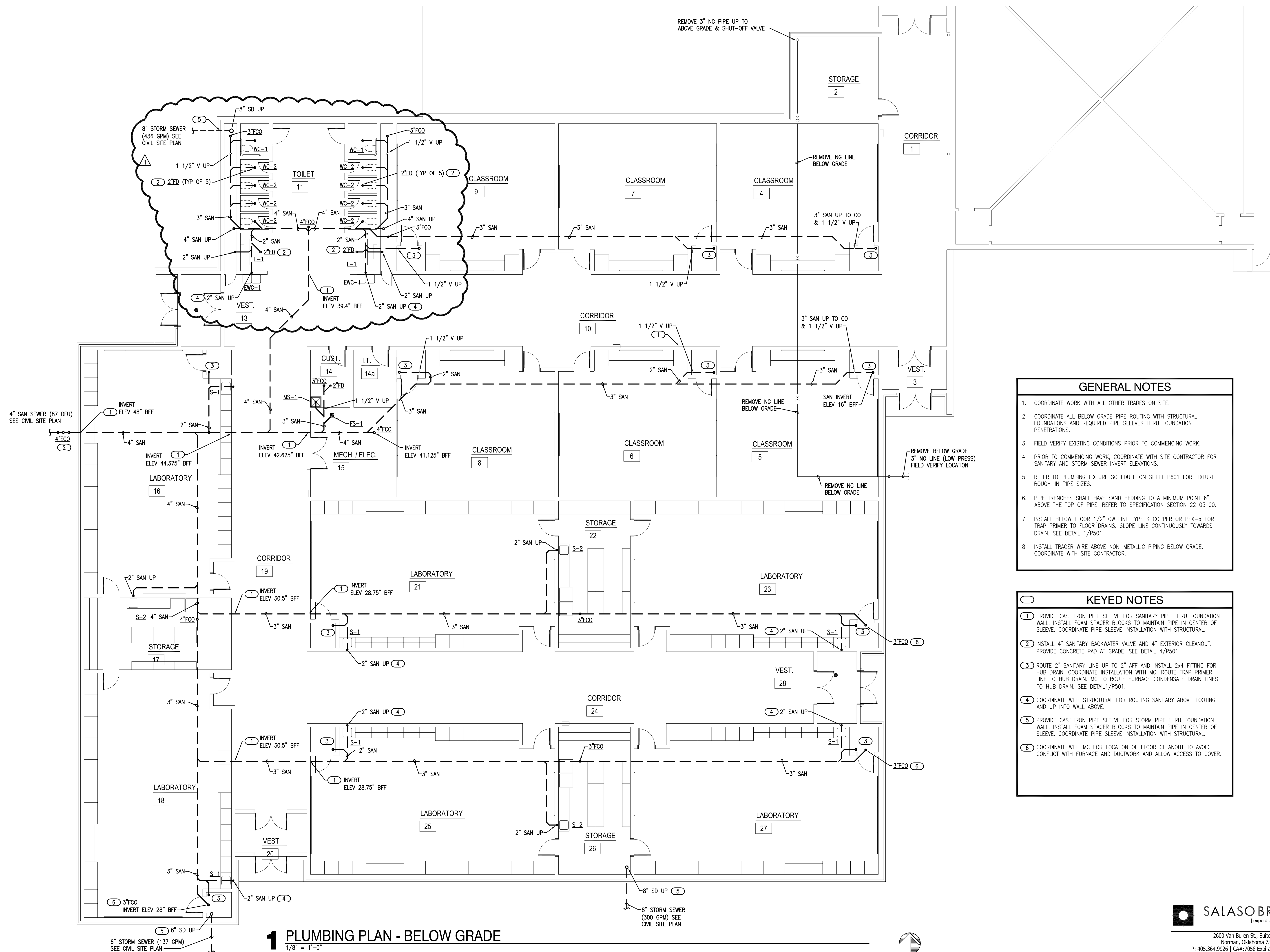
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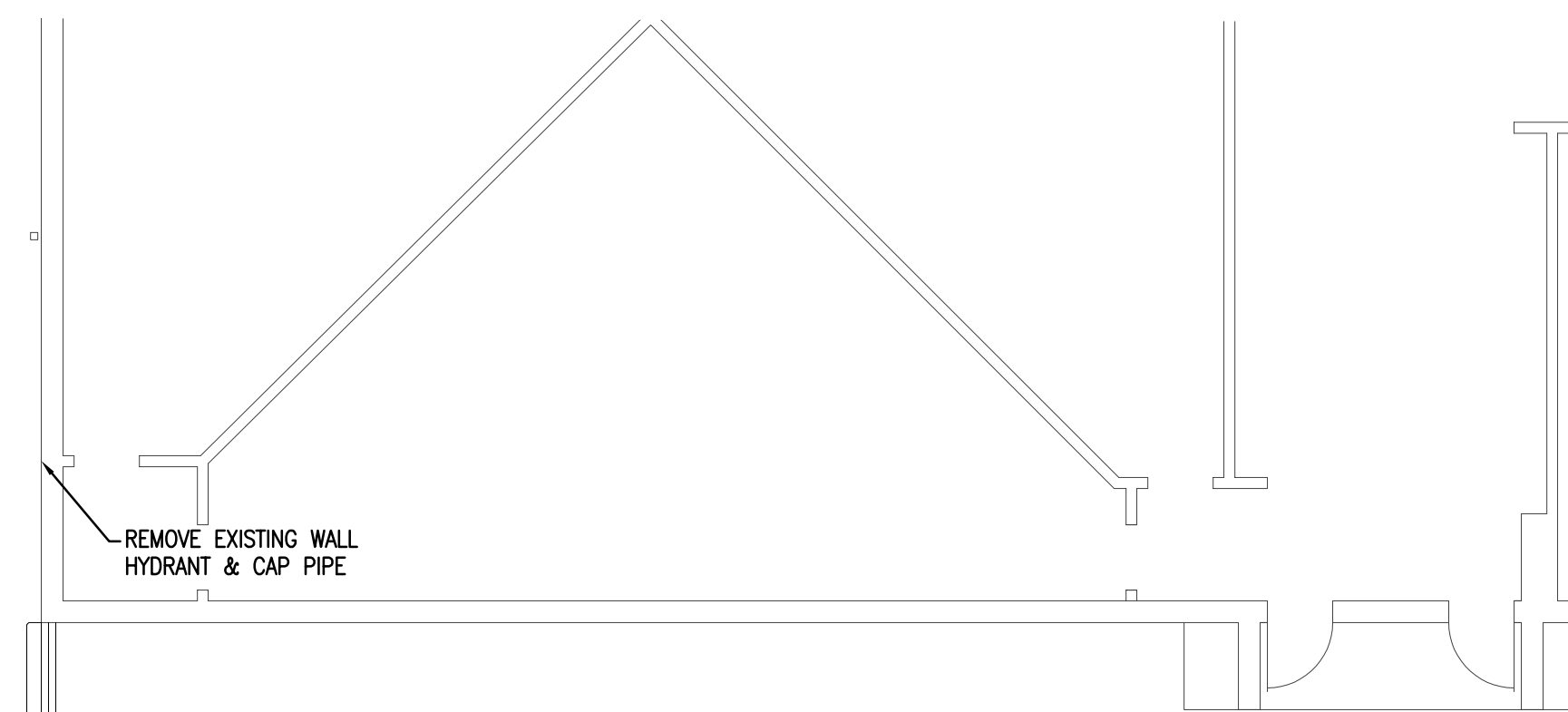
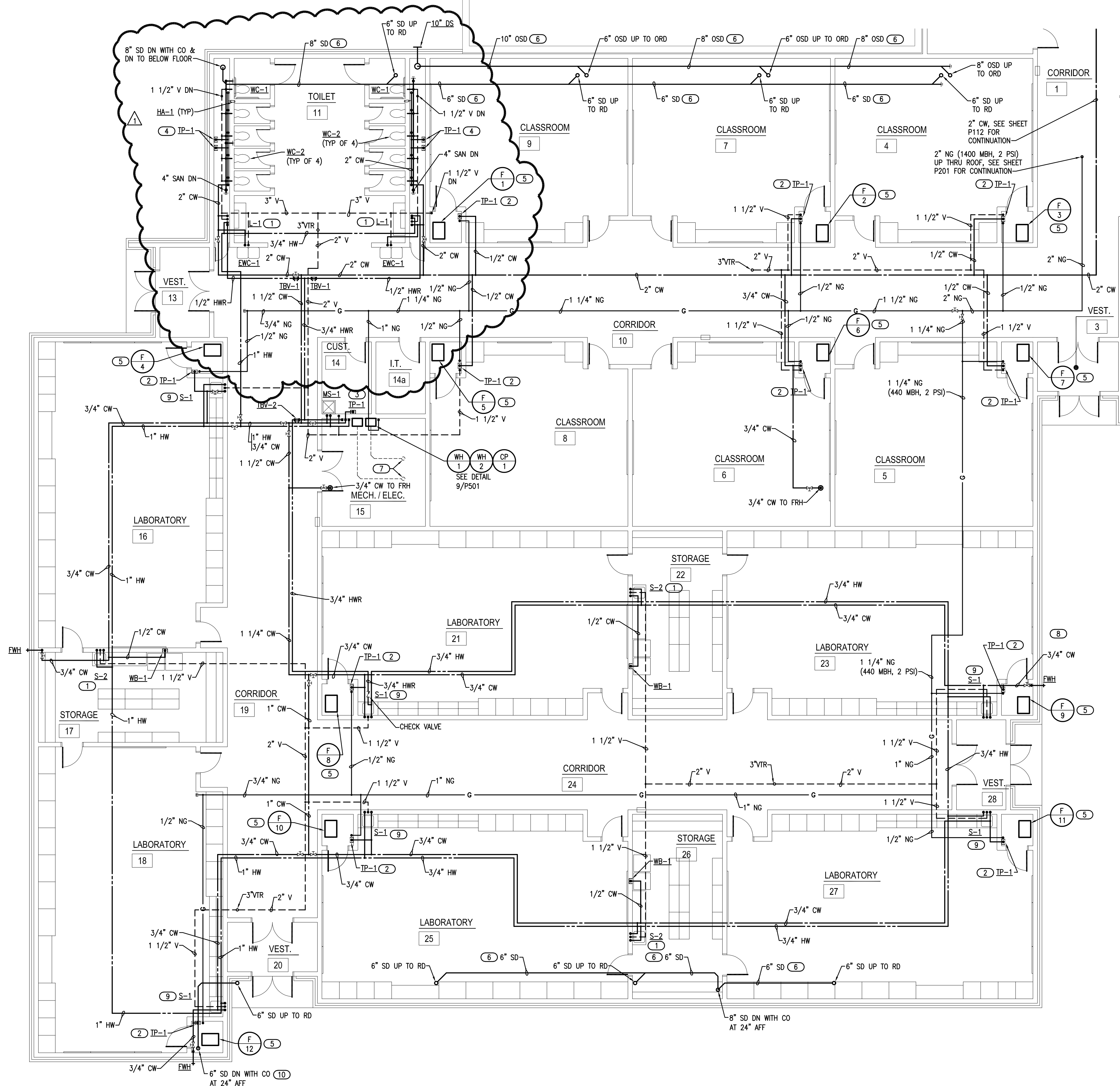
**1 PLUMBING PLAN - BELOW GRADE**  
1/8" = 1'-0"



- GENERAL NOTES**
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
  - COORDINATE ALL BELOW GRADE PIPE ROUTING WITH STRUCTURAL FOUNDATIONS AND REQUIRED PIPE SLEEVES THRU FOUNDATION PENETRATIONS.
  - FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
  - PRIOR TO COMMENCING WORK, COORDINATE WITH SITE CONTRACTOR FOR SANITARY AND STORM SEWER INVERT ELEVATIONS.
  - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES.
  - PIPE TRENCHES SHALL HAVE SAND BEDDING TO A MINIMUM POINT 6" ABOVE THE TOP OF PIPE. REFER TO SPECIFICATION SECTION 22.05.00.
  - INSTALL BELOW FLOOR 1/2" CW LINE TYPE K COPPER OR PEX-a FOR TRAP PRIMER TO FLOOR DRAINS. SLOPE LINE CONTINUOUSLY TOWARDS DRAIN. SEE DETAIL 1/P501.
  - INSTALL TRACER WIRE ABOVE NON-METALLIC PIPING BELOW GRADE. COORDINATE WITH SITE CONTRACTOR.

- KEYED NOTES**
- PROVIDE CAST IRON PIPE SLEEVE FOR SANITARY PIPE THRU FOUNDATION WALL. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - INSTALL 4" SANITARY BACKWATER VALVE AND 4" EXTERIOR CLEANOUT. PROVIDE CONCRETE PAD AT GRADE. SEE DETAIL 4/P501.
  - ROUTE 2" SANITARY LINE UP TO 2" AFF AND INSTALL 2x4 FITTING FOR HUB DRAIN. COORDINATE INSTALLATION WITH MC. ROUTE TRAP PRIMER LINE TO HUB DRAIN. MC TO ROUTE FURNACE CONDENSATE DRAIN LINES TO HUB DRAIN. SEE DETAIL 1/P501.
  - COORDINATE WITH STRUCTURAL FOR ROUTING SANITARY ABOVE FOOTING AND UP INTO WALL ABOVE.
  - PROVIDE CAST IRON PIPE SLEEVE FOR STORM PIPE THRU FOUNDATION WALL. INSTALL FOAM SPACER BLOCKS TO MAINTAIN PIPE IN CENTER OF SLEEVE. COORDINATE PIPE SLEEVE INSTALLATION WITH STRUCTURAL.
  - COORDINATE WITH MC FOR LOCATION OF FLOOR CLEANOUT TO AVOID CONFLICT WITH FURNACE AND DUCTWORK AND ALLOW ACCESS TO COVER.





- ### GENERAL NOTES
- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
  - PROVIDE WATER HAMMER ARRESTORS (HA) ON WATER LINES TO FLUSH VALVES, SENSOR FAUCETS AND QUICK CLOSING VALVES. LOCATE UNITS IN ACCESSIBLE LOCATIONS.
  - SINK AND LAVATORY WATER SUPPLY STUB OUTS SHALL BE COPPER PIPE WITH SUPPORT BRACKET FASTENED IN WALL CAVITY.
  - FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
  - REFER TO PLUMBING FIXTURE SCHEDULE ON SHEET P601 FOR FIXTURE ROUGH-IN PIPE SIZES.
  - PROVIDE ACCESS PANELS FOR ALL VALVES/DEVICES ABOVE HARD CEILINGS AND BEHIND WALLS.
  - ALL GAS PIPE SHALL COMPLY WITH IFGC. BRANCH LINES SHALL TAP OFF TOP OF GAS MAINS AND INSTALL SHUT-OFF VALVE ON BRANCH LINE.
  - TRAP PRIMER LINES SHALL BE COPPER TYPE "K" OR PEX-a TUBING WITH CONTINUOUS SLOPE TOWARDS DRAIN CONNECTION.
  - COORDINATE HEIGHT OF EXTERIOR FREEZELESS WALL HYDRANT (FWH) WITH GC AND/OR ARCHITECT. SEAL FIXTURE FLANGE WATERTIGHT.

- ### KEYED NOTES
- INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW LAVATORY OR SINK. SEE DETAILS 5/P501 AND 6/P501.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION IN FURNACE CLOSET. ROUTE 1/2" LINE FROM UNIT TO HUB DRAIN. COORDINATE POWER WITH EC. SEE DETAIL 1/P501.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ON WALL IN CUST RM 14. ROUTE (2) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAINS IN ROOMS 14 & 15. SEE DETAIL 1/P501.
  - PROVIDE 1/2" CW WITH STRAINER TO TRAP PRIMER (TP-1) IN ACCESSIBLE LOCATION ON WALL IN PLUMBING CHASE. ROUTE (3) 1/2" LINES FROM DISTRIBUTION UNIT TO FLOOR DRAINS IN ROOMS. SEE DETAIL 1/P501.
  - ROUTE 1/2" NATURAL GAS (LOW PRESS) LINE TO FURNACE. PROVIDE BALL VALVE, DRIP LEG, PRESSURE REGULATOR IF REQUIRED AND FINAL UNIT CONNECTION. COORDINATE CONNECTION WITH MC. SEE DETAIL 7/P501.
  - INSULATED STORM DRAIN WITH SLOPE AT 1/8" PER FOOT.
  - WATER HEATER 2" CONCENTRIC VENT UP THRU ROOF.
  - ROUTE 2" NATURAL GAS LINE UP ALONG WALL AND INTO BUILDING ABOVE CEILING. REFER TO SPECIFICATIONS FOR PAINTING GAS LINE. FIRESEAL WALL PENETRATION. PROVIDE WALL PIPE SUPPORTS.
  - INSTALL THERMOSTATIC MIXING VALVE (TMV-1) BELOW LABORATORY SINK. COORDINATE INSTALLATION WITH MILLWORK. SEE DETAIL 8/P501.
  - COORDINATE WITH MC FOR LOCATION OF STORM DRAIN RISER TO AVOID CONFLICT WITH FURNACE AND ALLOW ACCESS TO CLEANOUT ON STORM DRAIN.

## 1 PLUMBING PLAN - ABOVE GRADE

1/8" = 1'-0"







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SEPTEMBER 2021

date

▲ 01/25/22 ADDENDUM 1

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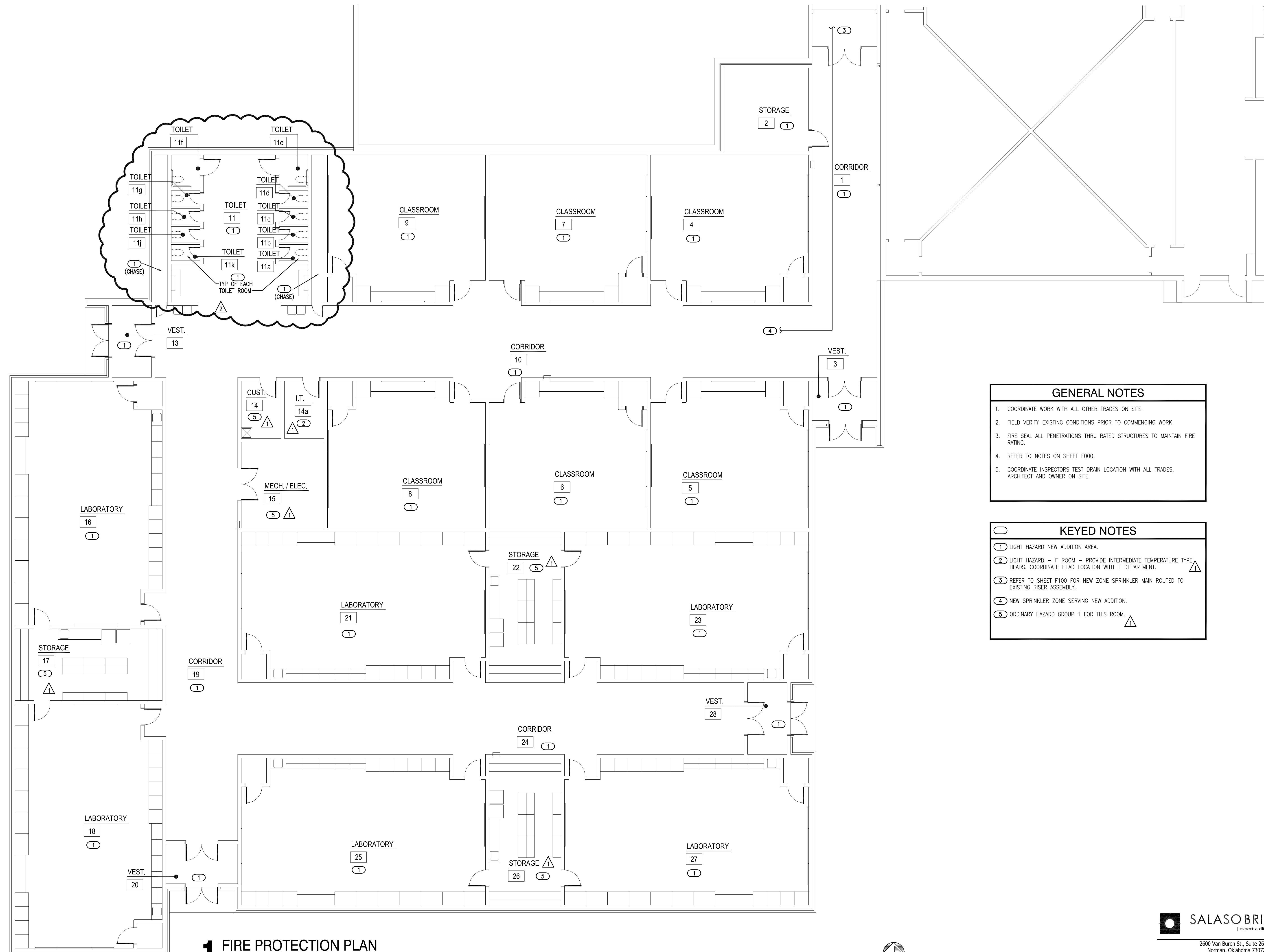
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### GENERAL NOTES

- COORDINATE WORK WITH ALL OTHER TRADES ON SITE.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
- FIRE SEAL ALL PENETRATIONS THRU RATED STRUCTURES TO MAINTAIN FIRE RATING.
- REFER TO NOTES ON SHEET F000.
- COORDINATE INSPECTORS TEST DRAIN LOCATION WITH ALL TRADES, ARCHITECT AND OWNER ON SITE.

### KEYED NOTES

- ① LIGHT HAZARD NEW ADDITION AREA.
- ② LIGHT HAZARD - IT ROOM - PROVIDE INTERMEDIATE TEMPERATURE TYPE HEADS. COORDINATE HEAD LOCATION WITH IT DEPARTMENT.
- ③ REFER TO SHEET F100 FOR NEW ZONE SPRINKLER MAIN ROUTED TO EXISTING RISER ASSEMBLY.
- ④ NEW SPRINKLER ZONE SERVING NEW ADDITION.
- ⑤ ORDINARY HAZARD GROUP 1 FOR THIS ROOM.

## 1 FIRE PROTECTION PLAN

1/8" = 1'-0"

