

CENTENNIAL PUBLIC SCHOOL ADDITION AND RENOVATION

UTICA, NEBRASKA

BID PACKAGE #3 REVISED - ADDENDUM #1 FOOTINGS, FOUNDATIONS & PRECAST CONCRETE

*** THIS DRAWING SET REPLACES BID PACKAGE #3 DRAWING SET, ISSUED SEPT. 16, 2013 IN ITS ENTIRETY ***



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SUBMITTED FOR
REFERENCE ONLY

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GENERAL NOTES

NOTES APPLY TO ALL TRADES AND ALL DRAWINGS.

SEE GENERAL CONDITIONS OF THE CONTRACT FOR FULL SCOPE OF CONTRACTOR REQUIREMENTS.

DO NOT SCALE DRAWINGS.

THE KEYNOTING SYSTEM IS USED ON THE DRAWINGS TO IDENTIFY CONSTRUCTION MATERIALS AND TO REFERENCE THEM TO THE TECHNICAL SPECIFICATIONS FOUND IN THE PROJECT MANUAL. THE ORGANIZATION OF THE KEYNOTING SYSTEM ON THE DRAWINGS SHALL NOT CONTROL THE CONTRACTOR IN DIVIDING THE WORK AMONG THE SUBCONTRACTORS OR IN ESTABLISHING THE EXTENT OF WORK TO BE PERFORMED BY ANY TRADE.

VERIFY ALL DIMENSIONS AND REQUIRED CLEARANCES BETWEEN EXISTING OR NEW CONDITIONS PRIOR TO FABRICATION AND INSTALLATION.

THE DRAWINGS SHOW EXISTING CONDITIONS AS ACCURATELY AS POSSIBLE BASED ON AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, LOCATIONS, UTILITIES, EQUIPMENT, ETC. PRIOR TO THE START OF DEMOLITION AND/OR CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.

CONDUCT OPERATIONS SO AS TO PERMIT PUBLIC ACCESS TO THE ADJACENT SITE. WALKS, DRIVEWAYS, ENTRANCES, ADJACENT PROPERTIES TO BE USED BY THE PUBLIC SHALL BE MAINTAINED IN A SAFE CONDITION AND SHALL BE KEPT FREE AND CLEAR OF THE CONTRACTOR'S EQUIPMENT, MATERIALS, AND DEBRIS.

CONTRACTOR SHALL COOPERATE WITH THE OWNER IN THE SCHEDULING AND EXECUTION OF THE WORK AND USE OF THE SITE. CONTRACTOR SHALL NOTIFY THE OWNER AND MUNICIPALITIES BEFORE COMMENCEMENT OF ANY WORK OR OPERATION WHICH WOULD INTERFERE WITH THE USE OF AN EXISTING BUILDING OR SURROUNDING SITE/BUILDINGS.

CONTRACTOR'S OPERATIONS AND STORAGE OF MATERIALS SHALL BE CONFINED TO THE MINIMUM AREA OF THE SITE NECESSARY TO ACCOMPLISH THE WORK, DESIGNATED BY THE INDICATED STAGING AREA. ANY ADDITIONAL STAGING OR STORAGE AREAS SHALL BE APPROVED BY THE LOCAL BUILDING AUTHORITY AND THE OWNER.

CONTRACTOR SHALL EXERCISE ALL REASONABLE PRECAUTIONS FOR THE PROTECTION OF PERSONS AND PROPERTY ON THE SITE. ALL SAFETY PROVISIONS AND APPLICABLE LAWS FOR BUILDING AND CONSTRUCTION CODES SHALL BE OBSERVED.

CONTRACTOR SHALL PROTECT THEIR WORK, THE WORK OF OTHERS, AND EXISTING WORK AND PROPERTIES SHOWN TO REMAIN. ANY WORK DAMAGED SHALL BE RETURNED TO BETTER OR EQUAL CONDITION.

SECURITY SHALL BE MAINTAINED IN ALL SITUATIONS.

CONTRACTOR SHALL PROVIDE TEMPORARY DUSTPROOF ENCLOSURES, DUST BARRIERS, COVERED WALKWAYS AND/OR BARRICADES AS REQUIRED TO PROTECT THE PUBLIC, OCCUPANTS AND EXISTING FACILITIES DURING DEMOLITION AND CONSTRUCTION.

MATERIALS LEGEND

	CIP CONCRETE
	PC CONCRETE
	RIGID INSULATION
	BATT INSULATION
	CMU
	MASONRY VENEER
	METAL STUD
	STEEL
	ALUMINUM
	CONTINUOUS WOOD BLOCKING
	WOOD SHIM/SPACER
	WOOD FINISH/TRIM
	GRAVEL
	SAND
	GYPSUM BOARD
	PLYWOOD
	SHINGLES
	EARTH/ GENERIC FILL

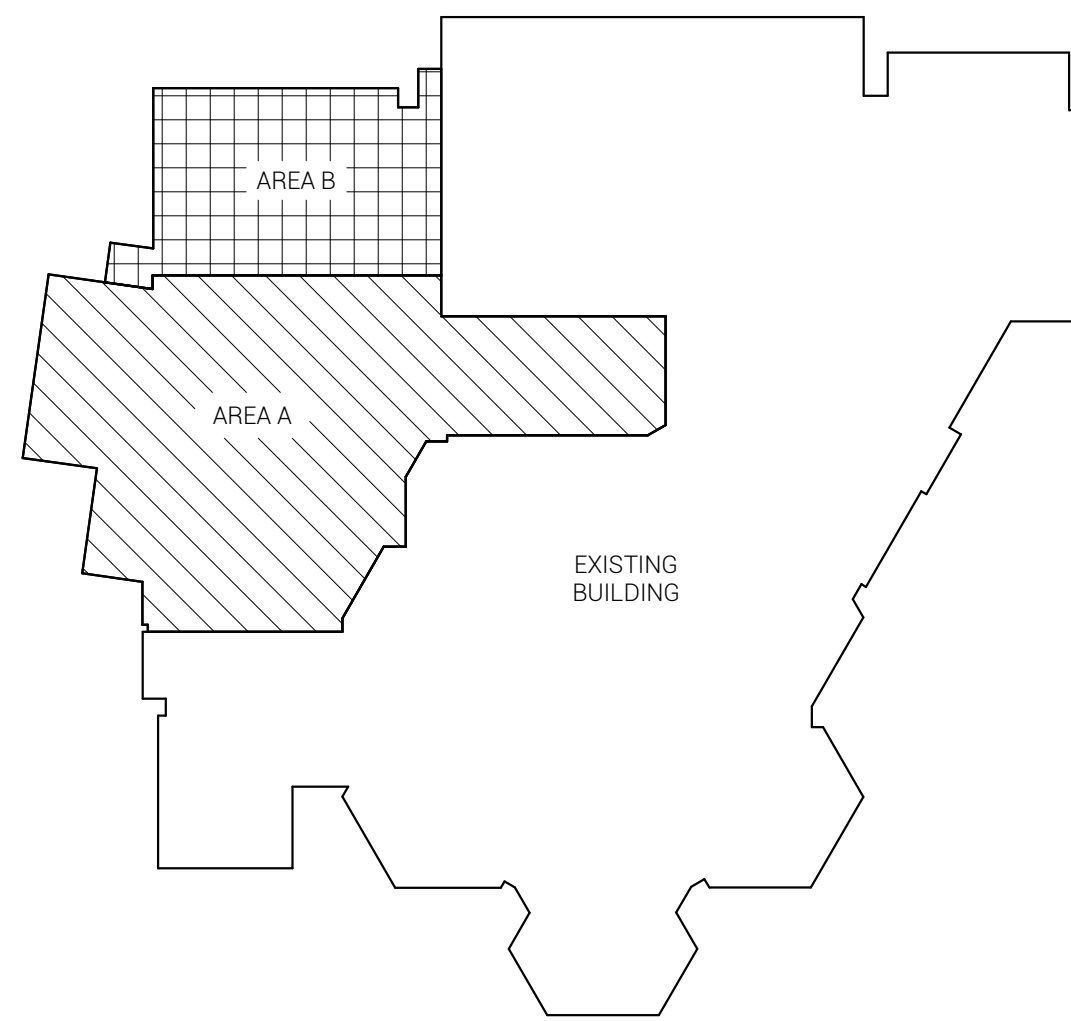
SYMBOLS LEGEND

	BUILDING SECTION REFERENCE
	WALL SECTION REFERENCE
	DETAIL/CALL OUT REFERENCE
	BUILDING ELEVATION REFERENCE
	INTERIOR ELEVATION REFERENCE
	GRIDLINE REFERENCE
	ELEVATION REFERENCE
	ROOM TAG
	DOOR TAG
	WINDOW/FRAME TAG
	WALL TAG
	REVISION TAG
	LEGEND REFERENCE
	MATERIAL/FLOORING REFERENCE
	SLOPE REFERENCE

ABBREVIATIONS

ACC	ACCESSIBLE/ACCESSIBILITY	NA	NOT APPLICABLE
ACT	ACOUSTICAL CEILING TILE	NC	NOT IN CONTRACT
AFF	ABOVE FINISH FLOOR	NOM	NOMINAL
AHJ	AUTHORITY HAVING JURISDICTION	NTS	NOT TO SCALE
ALT	ALTERNATE		
ALUM	ALUMINUM	OD	OUTSIDE DIAMETER
ARCH	ARCHITECTURAL	OCG	OVERHEAD COILING GRILLE
AWP	ACOUSTICAL WALL PANEL	OHD	OVERHEAD DOOR
		ORD	OVERFLOW ROOF DRAIN
BCMU	BURNISHED CONCRETE MASONRY UNIT	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
BOS	BABY CHANGING STATION	OFI	OWNER FURNISHED OWNER INSTALLED
BD	BOARD	OPNG	OPENING
BLKG	BLOCKING	OSD	OVERHEAD SECTIONAL DOOR
BO	BOTTOM OF		
BRNG	BEARINGS	P	PAINT
		PC	PRECAST
CC	CENTER TO CENTER	PCT	PORCELAIN CERAMIC TILE
CCD	COILING COUNTER DOOR	PERP	PERPENDICULAR
CIP	CAST IN PLACE	PL	PLATE
CJ	CONTROL JOINT	PLAM	PLASTIC LAMINATE
CL	CENTERLINE	PLYWD	PLYWOOD
CLG	CEILING	PORC	PORCELAIN
CLR	CLEAR	PTD	PAPER TOWEL DISPENSER
CMU	CONCRETE MASONRY UNIT	PTD/R	COMBINATION TOWEL DISPENSER/RECEPTACLE
COL	COLUMN	QT	QUARRY TILE
CONC	CONCRETE		
CONT	CONTINUOUS	R	RADIUS
CPT	CARPET	RB	RUBBER BASE
CT	CERAMIC TILE	RCP	REFLECTED CEILING PLAN
		RD	ROOF DRAIN
DBL	DOUBLE	RECS	RECOMMENDATIONS
DEG	DEGREE	RECPT	RECEPTACLE
DF	DRINKING FOUNTAIN	REF	REFERENCE
DIA	DIAMETER	REQD	REQUIRED
DNM	DIMENSION	RES	RESILIENT
DN	DOWN	RF	RUBBER/RESILIENT FLOOR
DTL	DETAIL	RM	ROOM
DW	DISHWASHER	RO	ROUGH OPENING
DWG	DRAWING		
EA	EACH	SCD	TOILET SEAT COVER DISPENSER
EIPS	EXTERIOR INSULATION AND FINISH SYSTEM	SD	SOAP DISPENSER
EJ	EXPANSION JOINT	SE	SQUARE FOOT
ELEV	ELEVATION	SFCMU	SPLIT-FACED CONCRETE MASONRY UNIT
ELEC	ELECTRICAL	SHWR	SHOWER
EQ	EQUAL	SIM	SIMILAR
EQIP	EQUIPMENT	SND	SANITARY NAPKIN DISPOSAL
EWC	ELECTRIC WATER COOLER	SNV	SANITARY NAPKIN VENDOR
EXT	EXISTING	SPEC	SPECIFICATIONS
		ST STL	STAINLESS STEEL
FD	FLOOR DRAIN	SS	SOLID POLYMER SURFACE
FND	FOUNDATION	STD	STANDARD
FE	FIRE EXTINGUISHER	STL	STEEL
FEC	FIRE EXTINGUISHER CABINET	STR	STRUCTURE
FF	FINISH FLOOR	TG	TONGUE & GROOVE
FLR	FLOOR	TB	TOWEL BAR
FLRG	FLOORING	TBD	TACK BOARD
FT	FEET	TERR	TERRAZZO
FTG	FOOTING	TH	TOWEL HOOK
		THK	THICKNESS
		TO	TOP OF
GA	GAUGE	TTD	TOILET TISSUE DISPENSER
GALV	GALVANIZED	TW	TACK WALL
GB	GRAB BAR	TYP	TYPICAL
GC	GENERAL CONTRACTOR		
GCMU	GLAZED CONCRETE MASONRY UNIT	UNEX	UNEXCAVATED
GSF	GROSS SQUARE FOOT	UNO	UNLESS NOTED OTHERWISE
GWB	GYPSUM WALLBOARD	UTS	UTILITY SHELF
		UTIL	UTILITY
HGT	HEIGHT	VAR	VARIES
HDWE	HARDWARE	VB	VINYL BASE
HM	HOLLOW METAL	VCT	VINYL COMPOSITION TILE
HORIZ	HORIZONTAL		
HR	HOUR	WD	WOOD
		WOW	WINDOW
IN	INCH	WR	WASTE RECEPTACLE
INSUL	INSULATION		
INT	INTERIOR		
JB	JUNCTION BOX		
KIT	KITCHEN		
L	LENGTH		
LAV	LAVATORY		
LAM	LAMINATE		
LF	LINEAR FOOT		
LOKR	LOOKER		
LSC	LIFE SAFETY CODE		
MAX	MAXIMUM		
MBD	MARKER BOARD		
MBH	MOP AND BROOM HOLDER		
MECH	MECHANICAL		
MEZZ	MEZZANINE		
MFR	MANUFACTURER		
MFRG	MANUFACTURING		
MIN	MINIMUM		
MIR	MIRROR		

AREA PLAN



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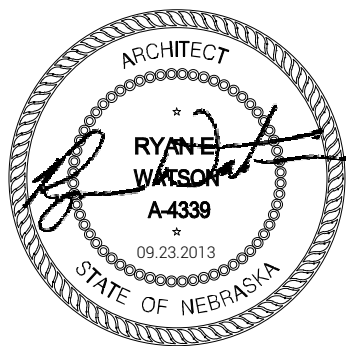
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PROJECT: L13030 DATE: SEPT 23, 2013

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COORDINATING PROFESSIONAL



I, RYAN WATSON, CERTIFY THAT I AM THE
COORDINATING PROFESSIONAL FOR THE:

CENTENNIAL PUBLIC SCHOOL ADDITION
AND RENOVATION PROJECT.

COVER SHEET

BP-3R
G1.0

LIFE SAFETY ANALYSIS

APPLICABLE CODES:
2009 INTERNATIONAL BUILDING CODE
2009 INTERNATIONAL ENERGY CODE
2009 NFPA LIFE SAFETY CODE
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
STATE OF NEBRASKA ACCESSIBILITY GUIDELINES

IBC CHAPTER 3 / LSC CHAPTER 6 - OCCUPANCY CLASSIFICATION:
A-1 MULTI-PURPOSE ROOM (ACCESSORY)
A-3 COMMONS/LOBBY (ACCESSORY)
A-3 LOCKERS (ACCESSORY)
D OFFICES (ACCESSORY)
E CLASSROOMS/SHOPS
S-1 STORAGE (ACCESSORY)

IBC SECTION 508 MIXED USE AND OCCUPANCIES
NOTES: CHAPTER 303.1 EXCEPTION 4 FOR ASSEMBLY AREAS ACCESSORY TO GROUP E OCCUPANCIES

IBC CHAPTER 6 - TYPES OF CONSTRUCTION:
TYPE II-B FULLY SPRINKLERED

IBC TABLE 601/602 - FIRE RESISTANCE RATING REQUIREMENTS:

PRIMARY STRUCTURAL FRAME: 0 HR
INT BEARING WALLS: 0 HR
EXT BEARING WALLS: 0 HR
INT PARTITION WALLS: 0 HR
EXT PARTITION WALLS:

>5' 7 HR
5' - 10' 7 HR
10' - 30' 0 HR
>30' 0 HR

FLOOR CONSTRUCTION: 0 HR
ROOF CONSTRUCTION: 0 HR

LSC CHAPTER 8 - FIRE PROTECTION FEATURES:

IBC TABLE 1018 - CORRIDOR FIRE RESISTANCE RATING REQUIREMENTS:
OCC CLASS: E = 0 HR

IBC TABLE 705.8 - MAX AREA OF EXTERIOR OPENINGS
FSD 30" - NO LIMIT

IBC TABLE 1004.1.1 / LSC SECTION 7.3 - ALLOWABLE OCCUPANCY PER AREA:

ASSEMBLY/CONCENTRATED - 7 NSF

ASSEMBLY/STANDING - 5 NSF

BUSINESS - 100 NSF

EDUCATION/CLASSROOM - 20 NSF

EDUCATION/SHOPS - 50 NSF

EXERCISE ROOMS - 50 NSF

LOCKERS - 60 NSF

STORAGE - 300 NSF

IBC SECTION 1005 / NFPA 7.3.3.1 - EGRESS WIDTHS:

EGRESS COMPONENTS = 270 OCC

STAIRWAYS = 270 OCC

MIN STAIR WIDTH = 44" (BC 1009)

NFPA 7.2.4 - HORIZONTAL EXIT:

CANNOT SERVE = 50% OCCUPANT LOAD

ALL OTHER EXITS MUST EXIT DIRECTLY TO THE OUTSIDE

NFPA 7.2.4.2 - FIRE COMPARTMENT:

DOORS MUST SWING IN PATH OF TRAVEL

DOORS MUST BE UNLOCKED FROM EXIT SIDE WHEN OCCUPIED

NFPA TABLE 15.2.5.3 - COMMON PATH OF TRAVEL:

SPRINKLERED: 100 FT

NFPA TABLE 15.2.6 - TRAVEL DISTANCE:

SPRINKLERED 200 FT

NFPA TABLE 15.2.5.3 - DEAD END CORRIDORS:

SPRINKLERED: 50 FT

NFPA 15.3.7 - SUBDIVISION OF BUILDING SPACES:

REFERENCE 15.3.7.2 EXCEPTION (2) - FULLY SPRINKLERED BUILDINGS DO NOT APPLY

1 HR

2 HR

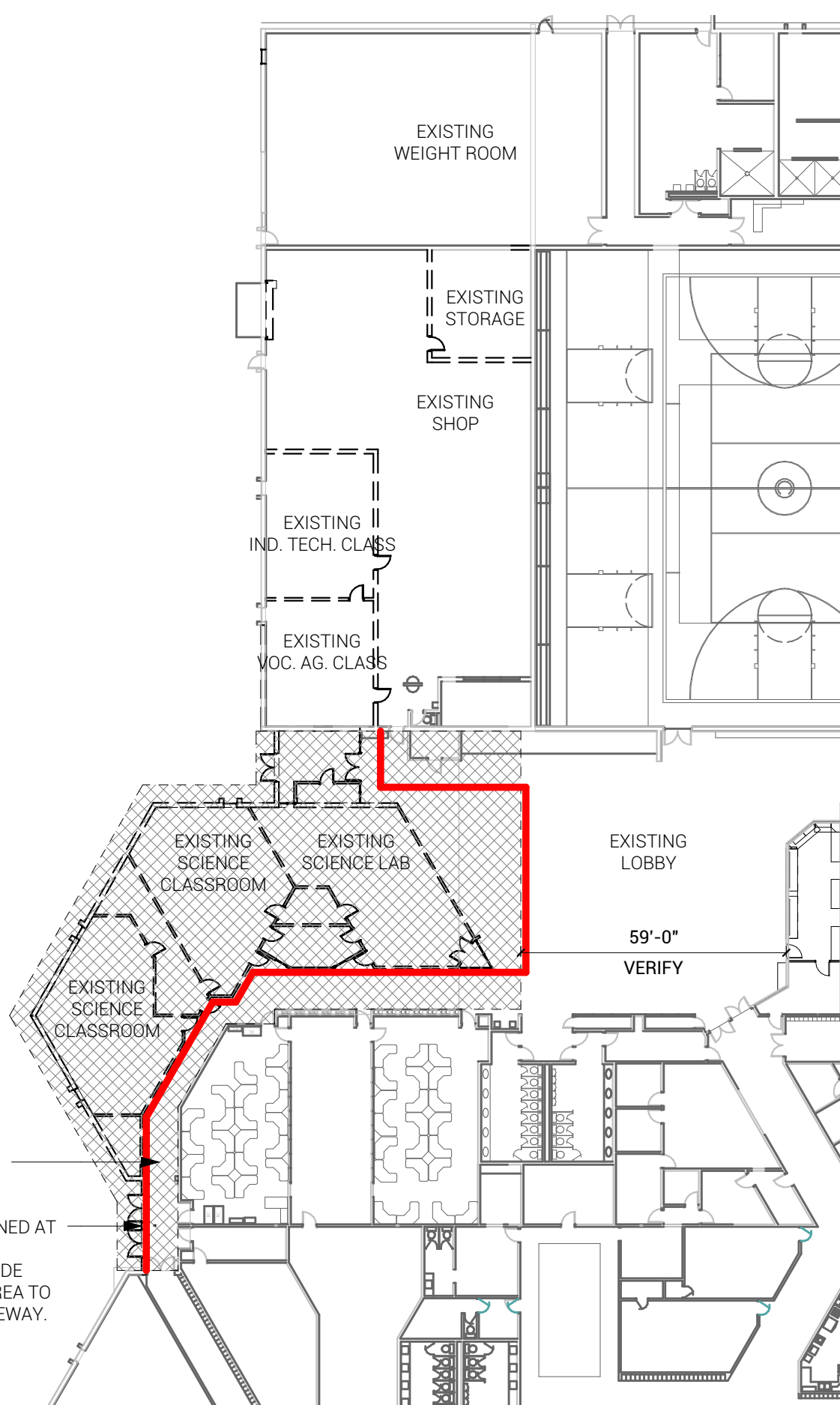
INCIDENTAL OR ACCESSORY USE ***DETERMINE PROJECT SPECIFIC RATING***

EGRESS SYMBOL

ACTUAL

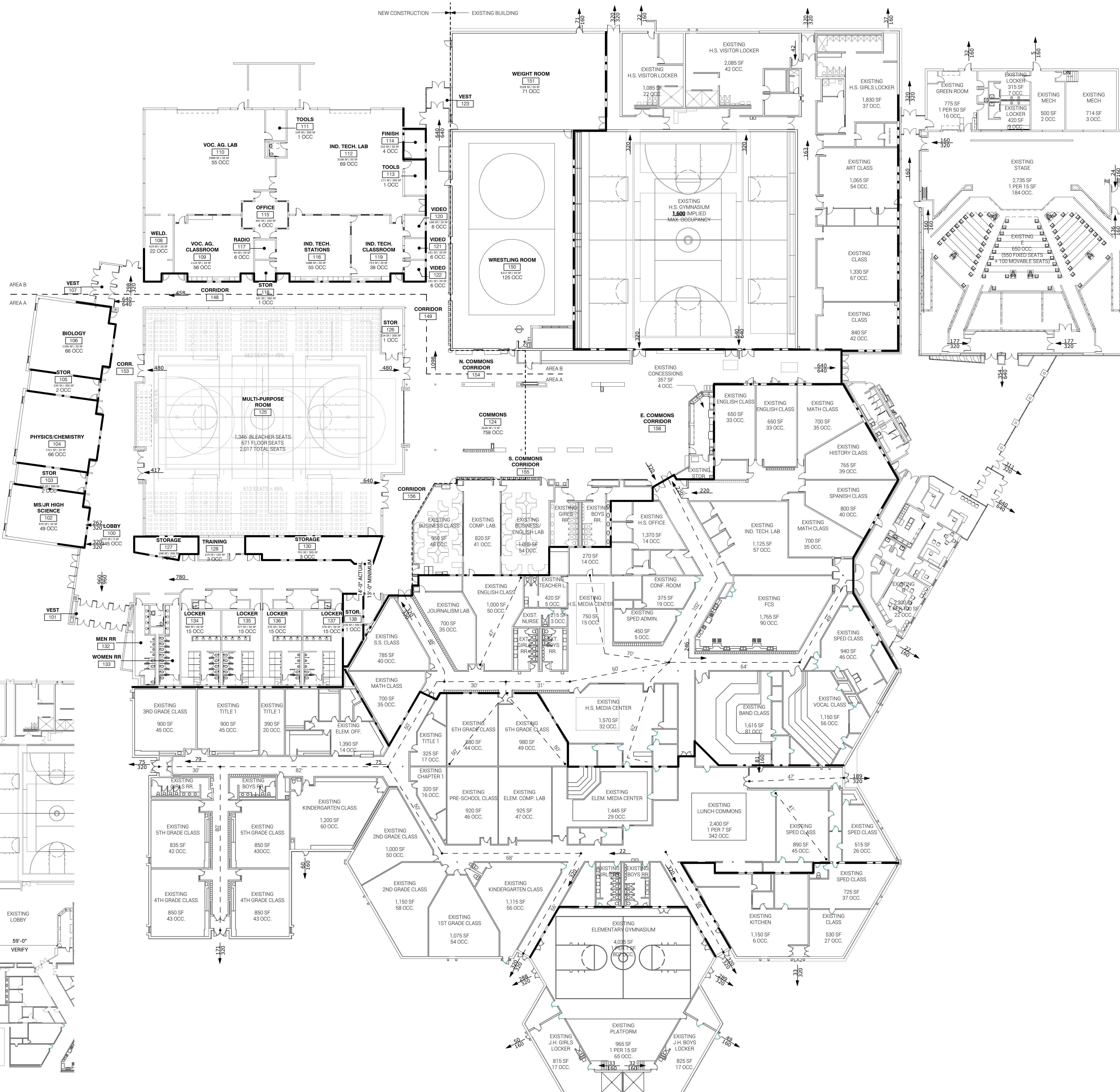
ALLOWABLE

COMMON PATH OF TRAVEL / TRAVEL DISTANCE



A1 FIRST FLOOR DEMOLITION AND TEMPORARY EGRESS PLAN

1/32" = 1'-0"



A8 01 - FIRST FLOOR LIFE SAFETY PLAN

1" = 20'-0"



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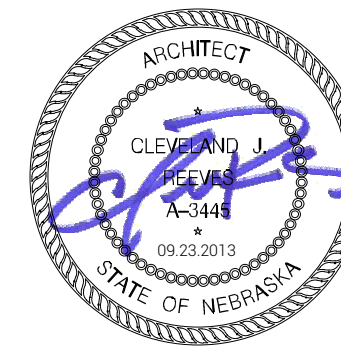
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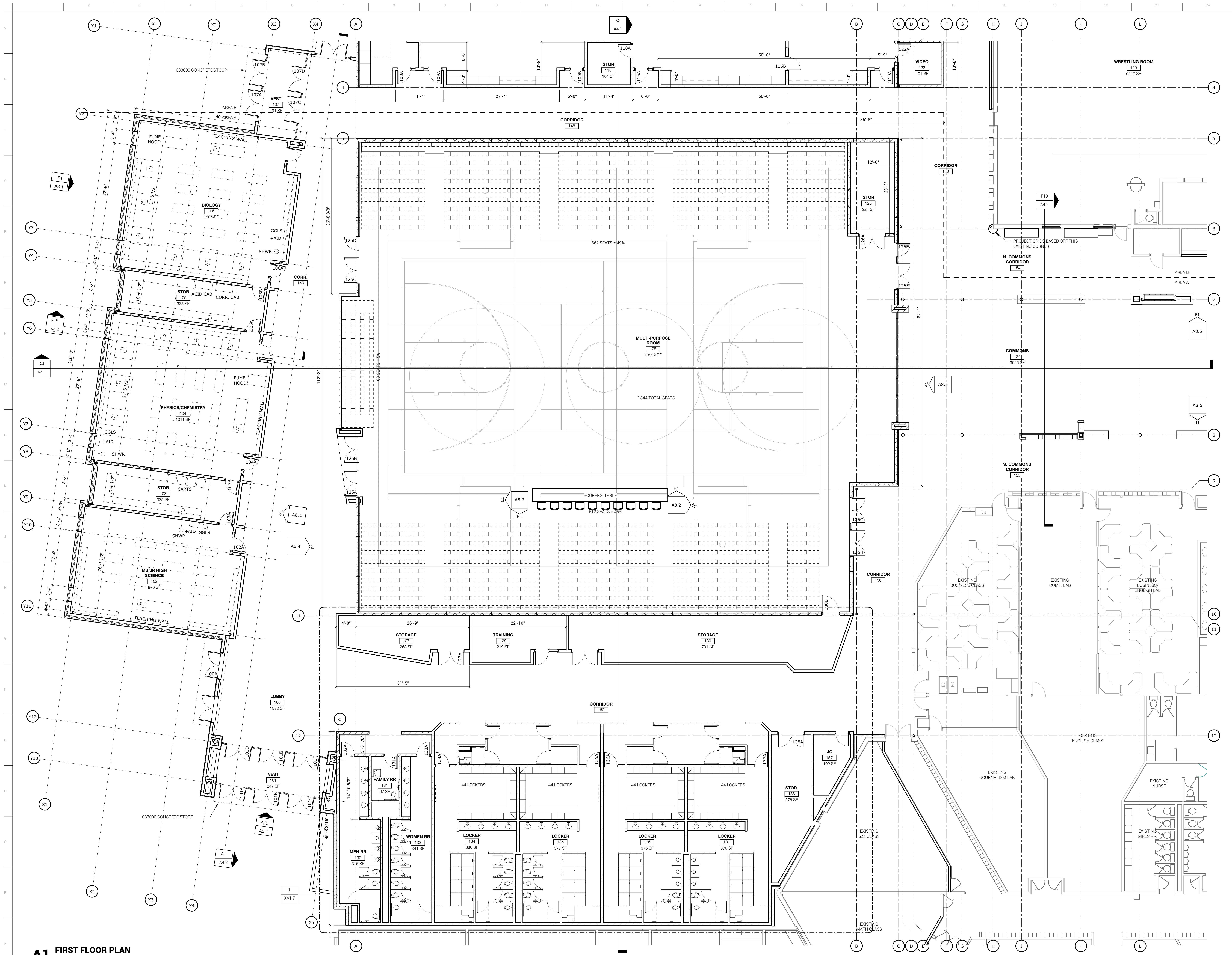
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LIFE SAFETY AND CODE
ANALYSIS



BP-3R
G1.2



A1 FIRST FLOOR PLAN
1/8" = 1'-0"



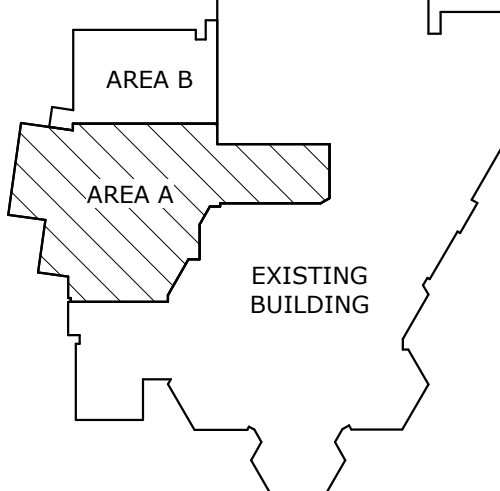
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FIRST FLOOR PLAN - AREA A

BP-3R
A1.1





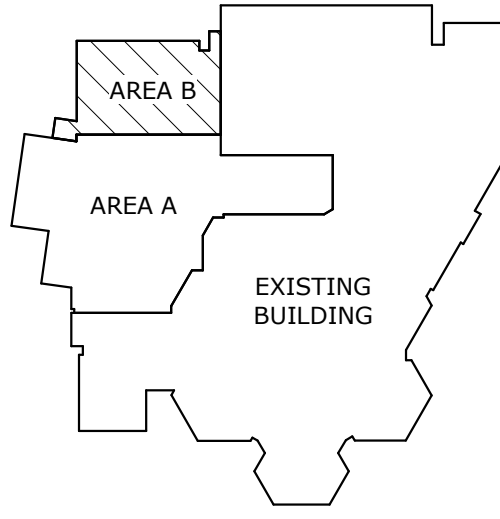
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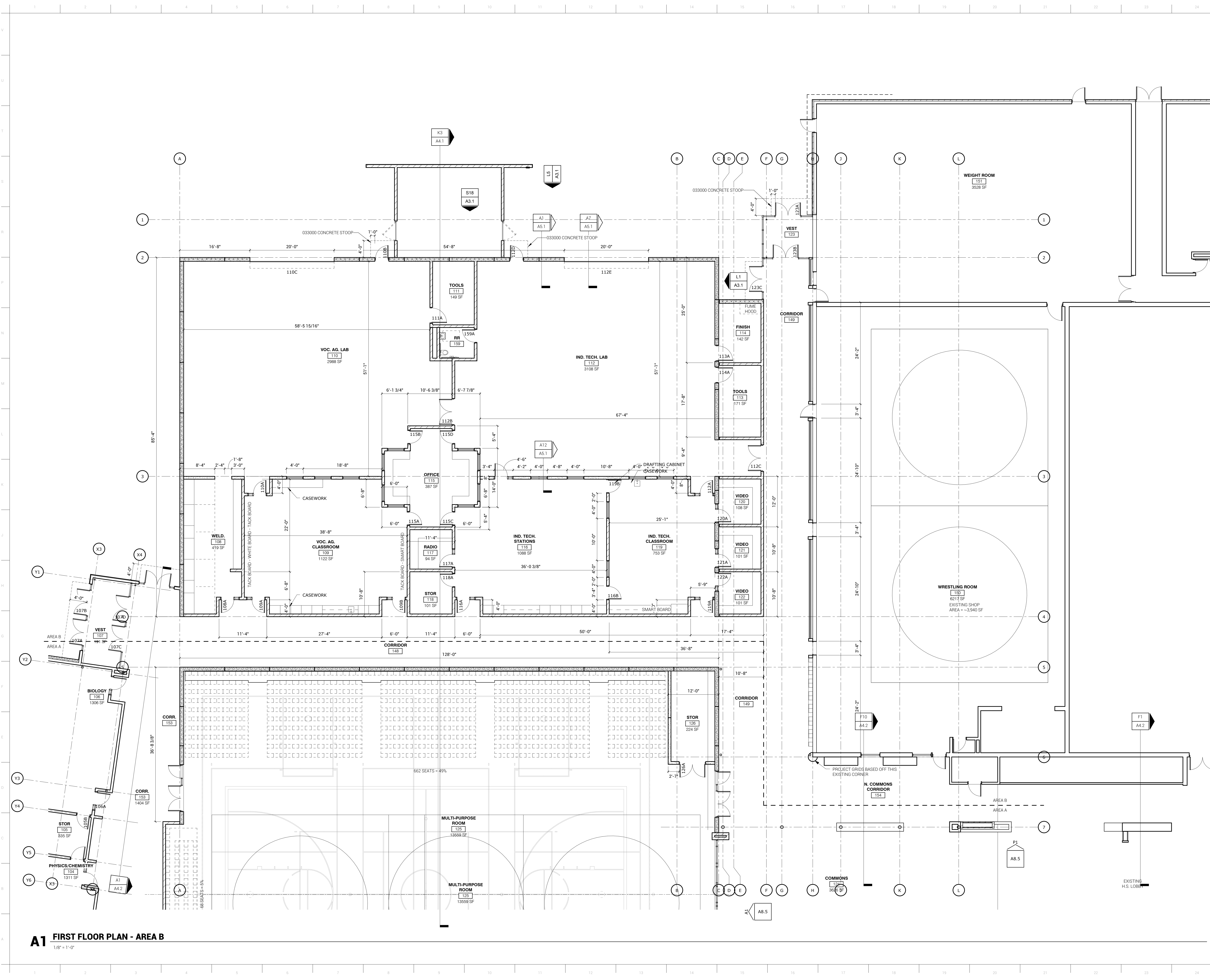
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FIRST FLOOR PLAN - AREA
B

NORTH
1
BP-3R
A1.2



A1 FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"



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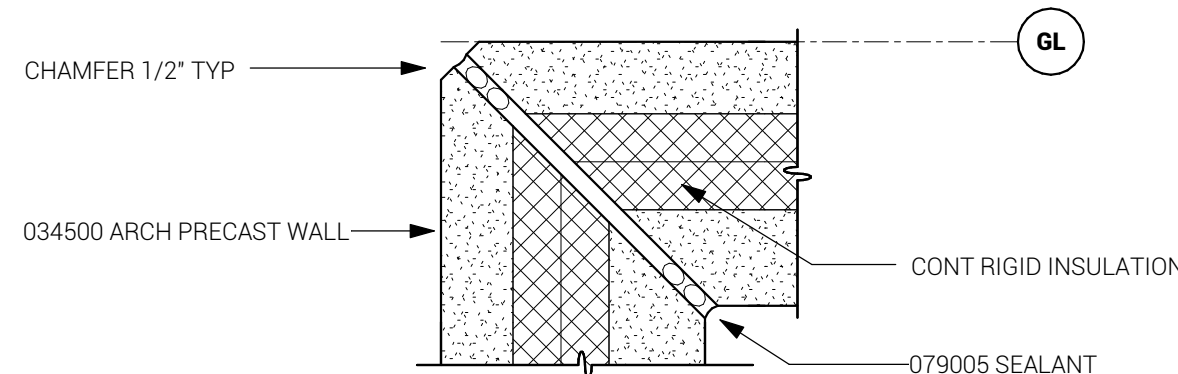
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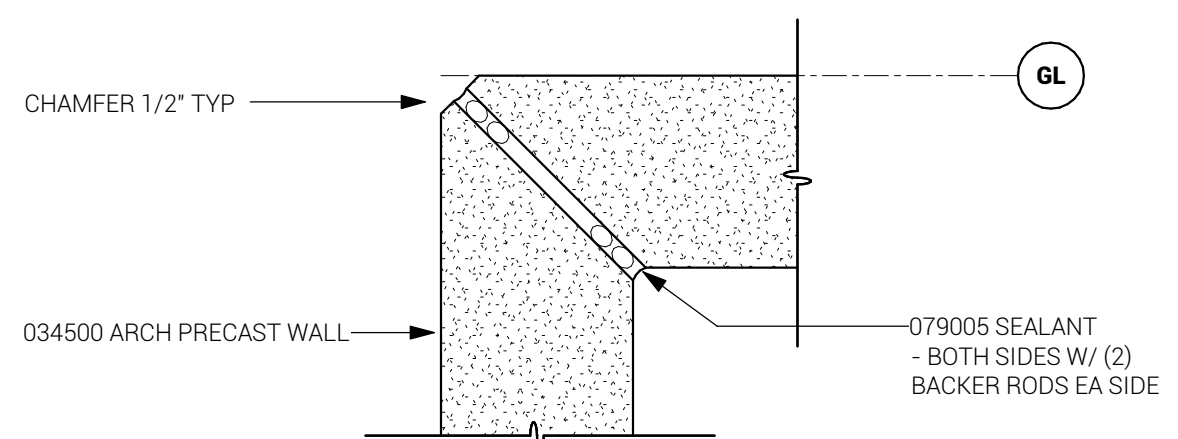
FIRST FLOOR PRECAST
PANEL LAYOUT PLAN



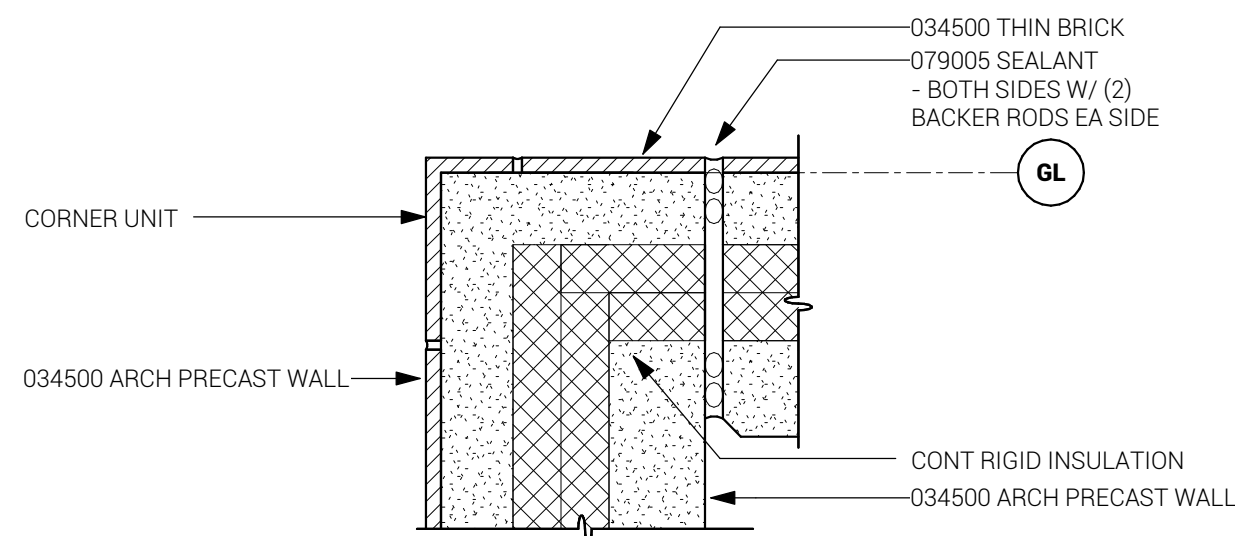
BP-3R
A1.4



TYPE 1 MITER JOINT DETAIL
TYPICAL AT ALL 11" EXTERIOR PRECAST
CONCRETE CORNER DETAILS, UNO

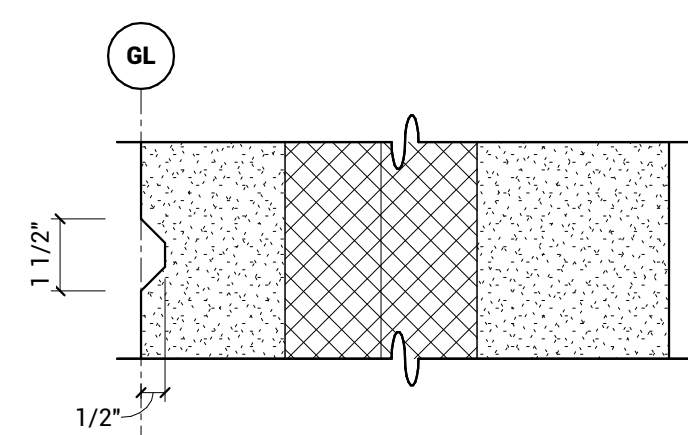


TYPE 2 MITER JOINT DETAIL
TYPICAL AT ALL 8" PRECAST CONCRETE
CORNER DETAILS, UNO

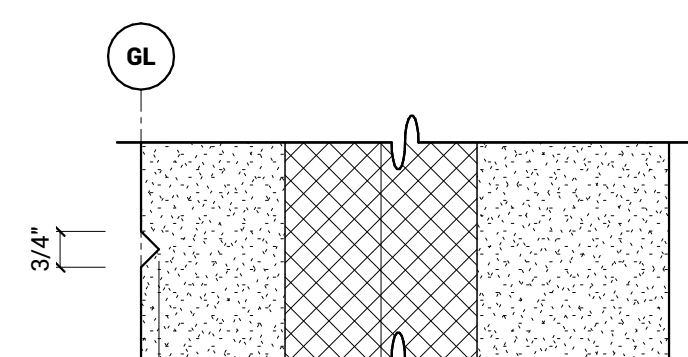


TYPE 3 BUTT JOINT W/ THIN
BRICK DETAIL
AS NOTED ON PLAN

A3 DETAIL - PRECAST JOINTS
1 1/2" = 1'-0"

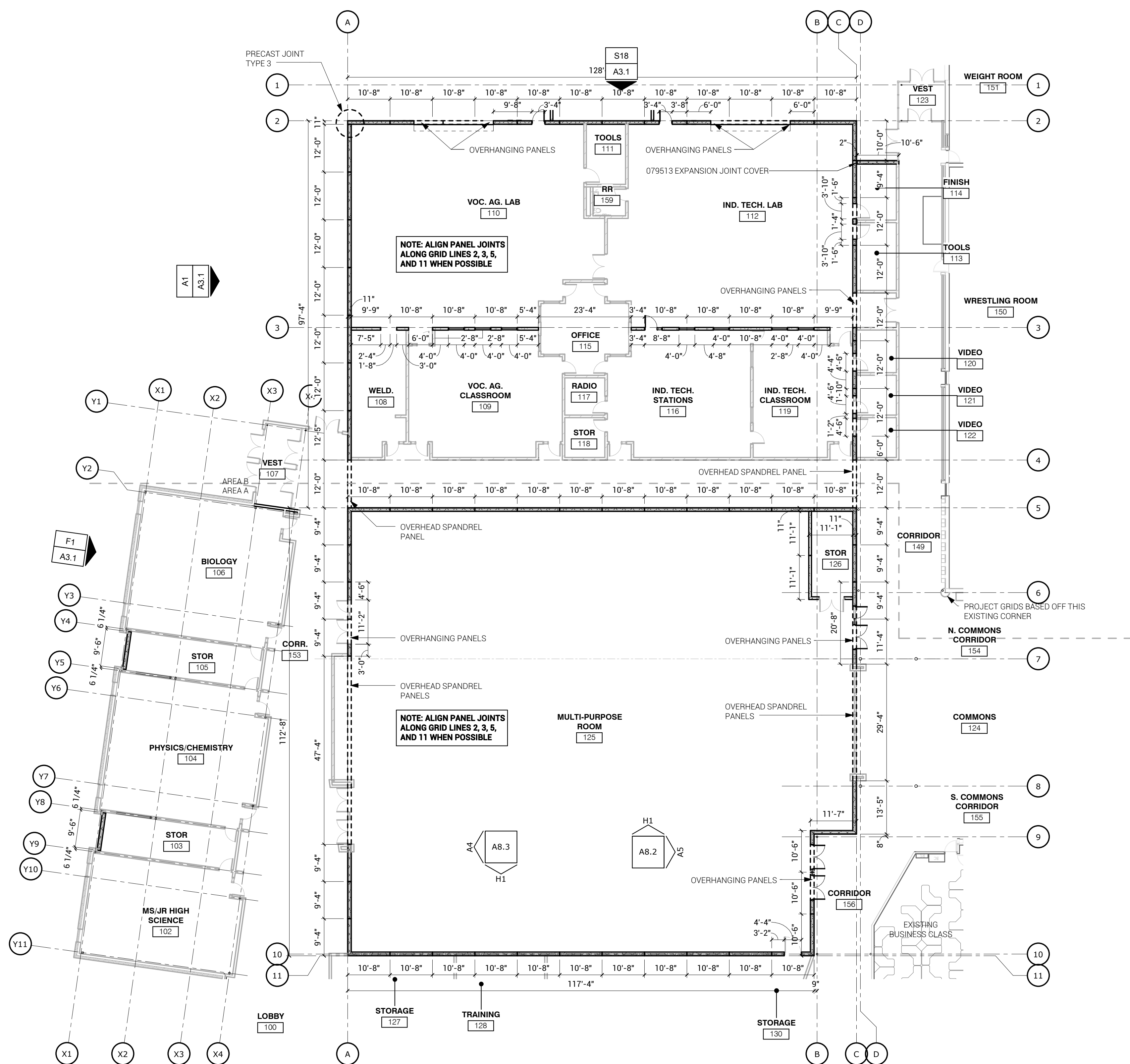


TYPE 1 REVEAL



TYPE 2 REVEAL

A8 DETAIL - PRECAST REVEALS
3" = 1'-0"



A12 FIRST FLOOR PRECAST PANEL LAYOUT PLAN
1/16" = 1'-0"



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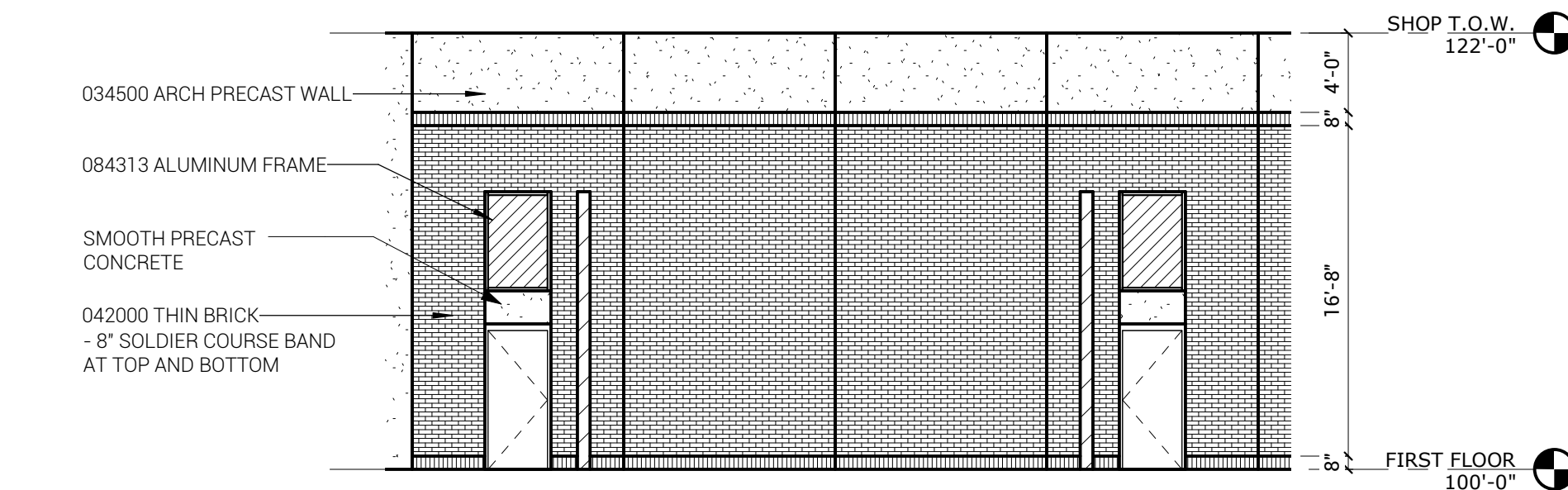
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BUILDING ELEVATIONS

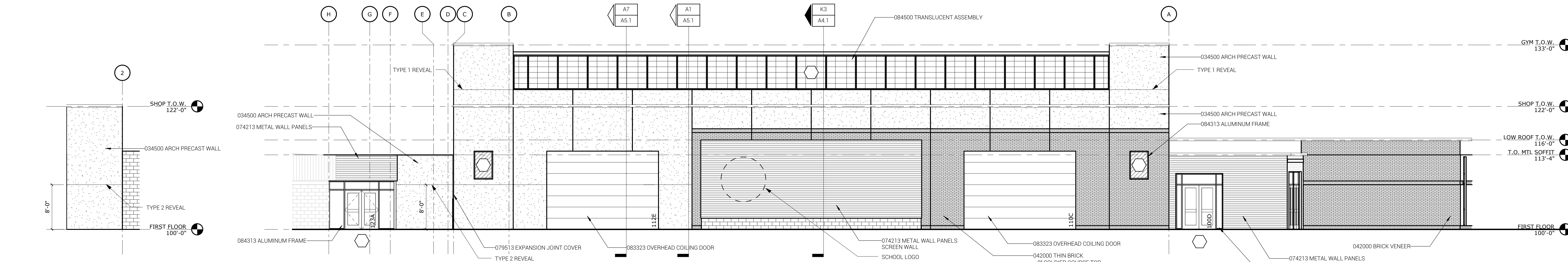
BP-3R

A3.1

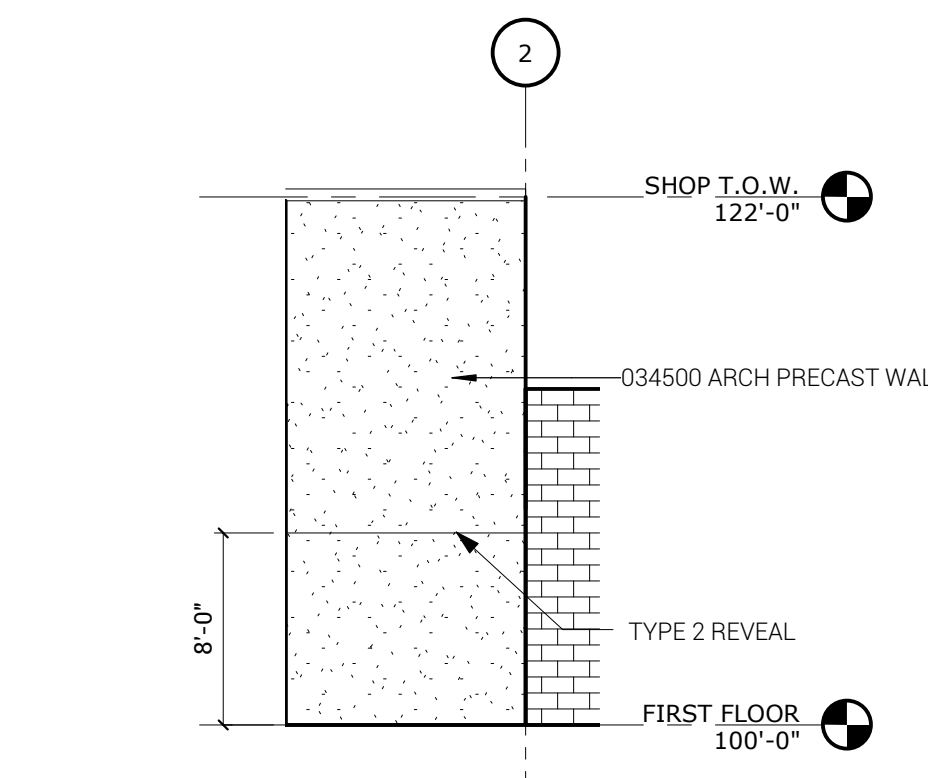
NOTE:
SEE SHEET A1.4 FOR ARCHITECTURAL
PRECAST CONCRETE PANEL LAYOUT
PLAN AND ADDITIONAL DETAILS



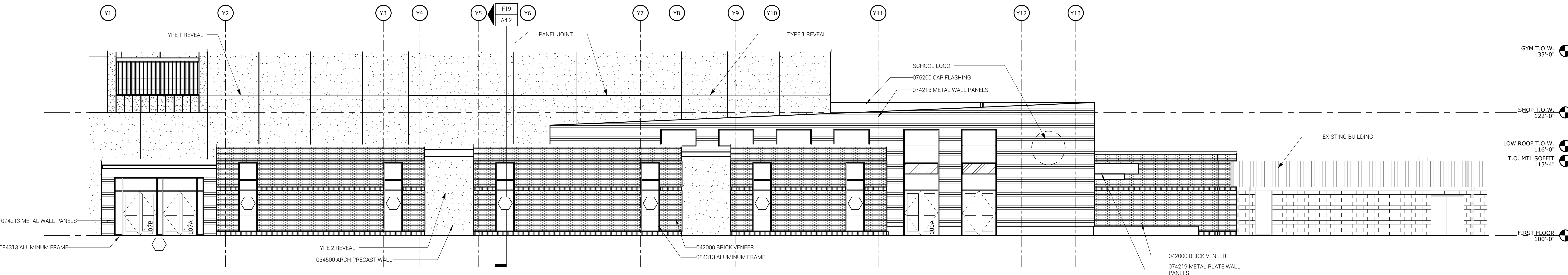
S18 NORTH ELEVATION - PARTIAL
1/8" = 1'-0"



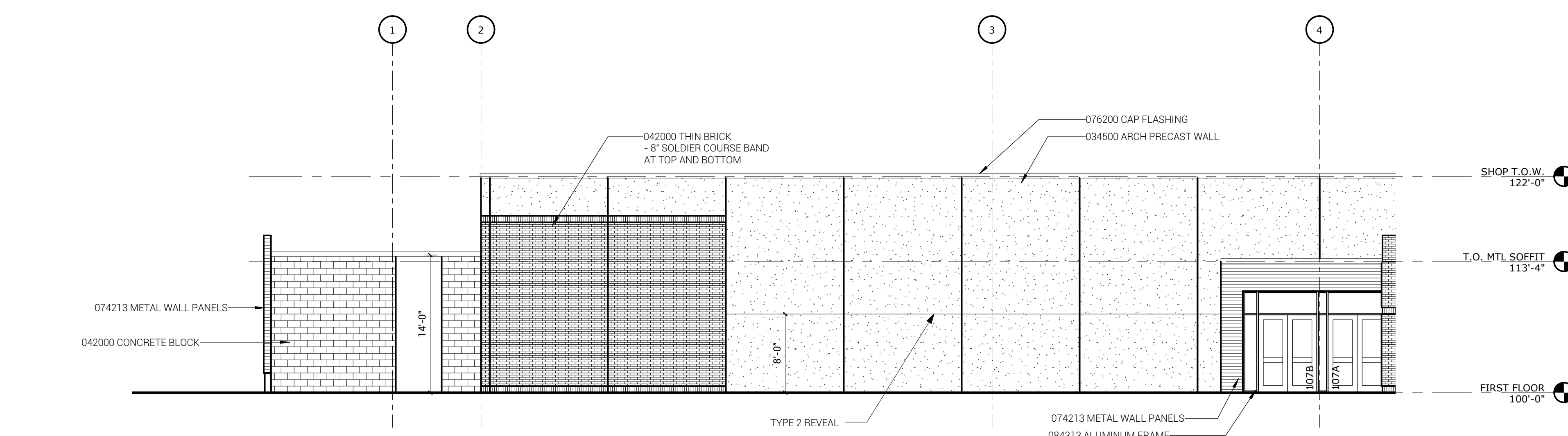
L5 NORTH ELEVATION
1/8" = 1'-0" REF SHEET: A1 / A1.2



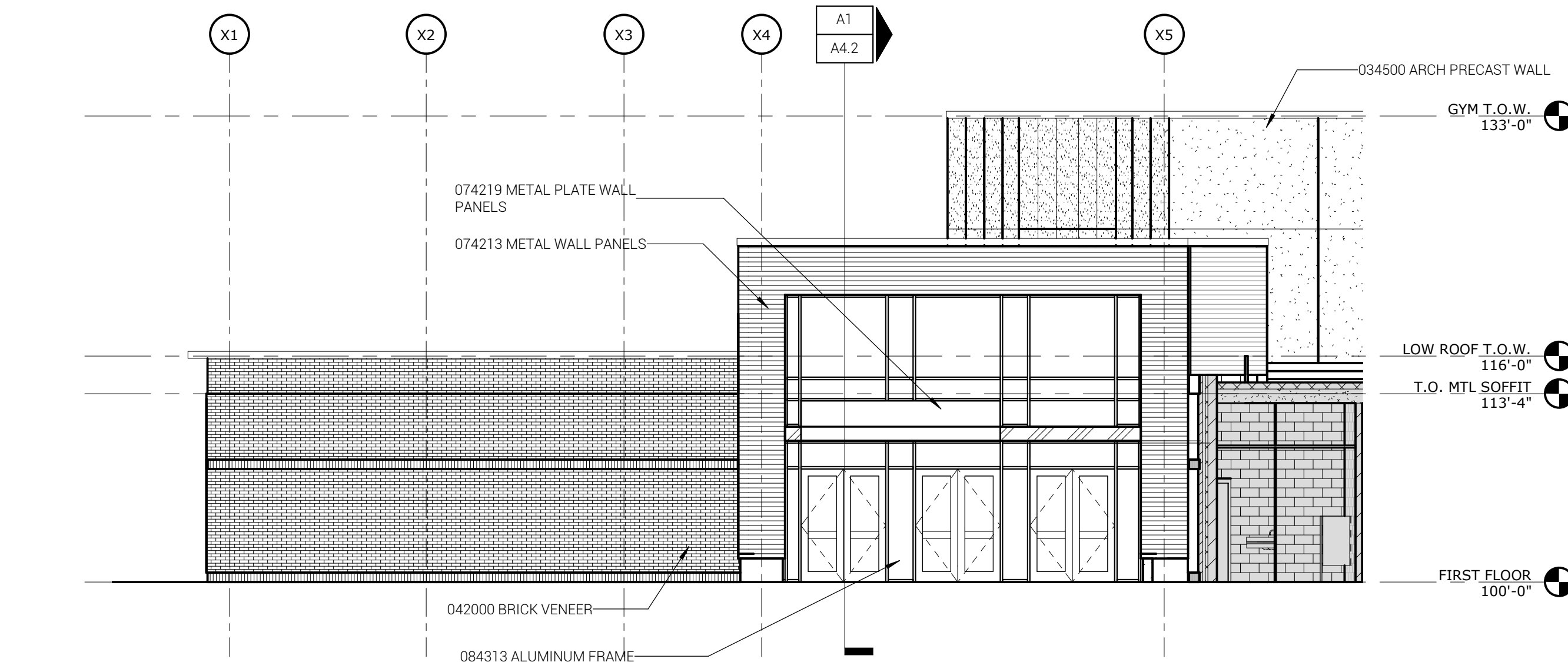
L1 EAST ELEVATION - PARTIAL
1/8" = 1'-0"



F1 WEST ELEVATION - AUXILIARY
1/8" = 1'-0"



A1 WEST ELEVATION
1/8" = 1'-0" REF SHEET: A1.2 / A1.4



A15 SOUTH ELEVATION
1/8" = 1'-0" REF SHEET: A1 / A1.1



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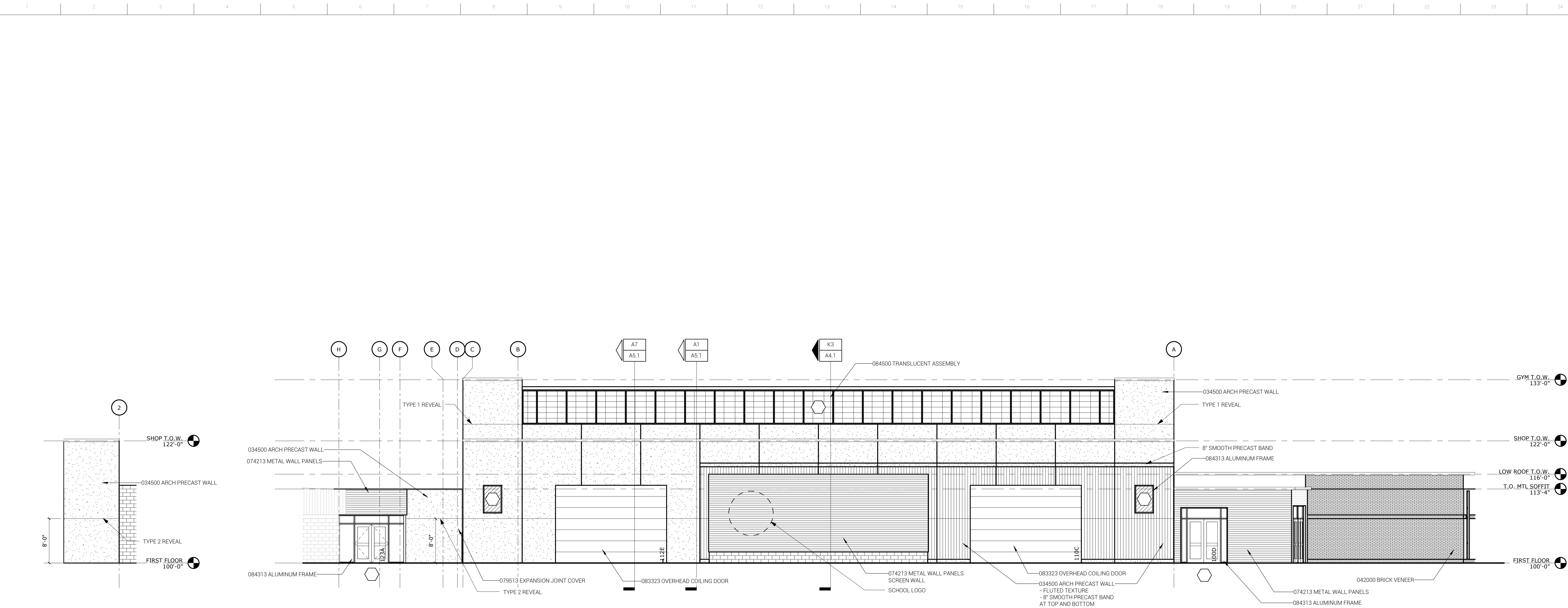
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SCHOOL ADDITION AND
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PROJECT: L13030 DATE: SEPT 23, 2013
V: CPH/BAH/VAH/ETI

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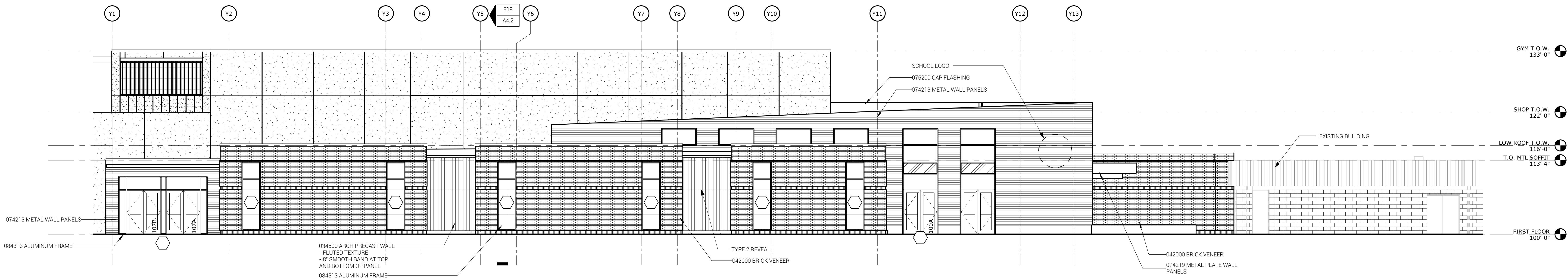
BUILDING ELEVATIONS

BP-3R
A3.1
ALT #1

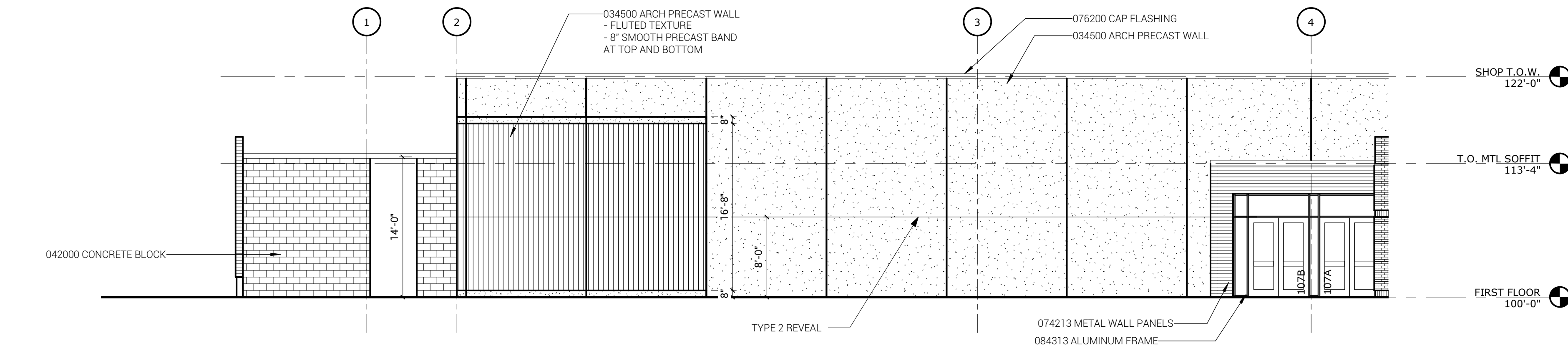


K1 EAST ELEV - BID ALTERNATE #1
1/8" = 1'-0"

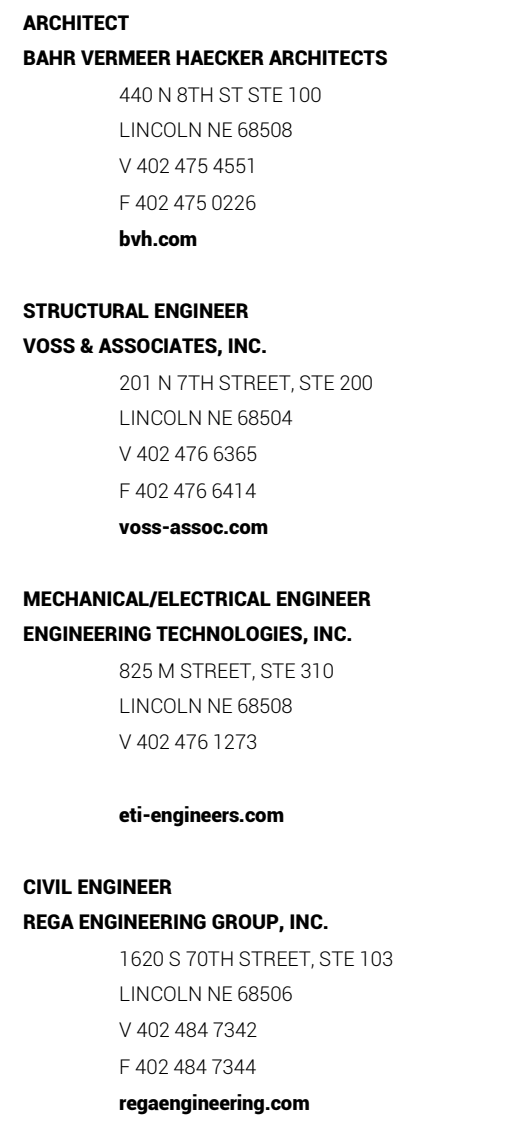
K5 NORTH ELEVATION - BID ALTERNATE #1
1/8" = 1'-0"



F1 WEST ELEVATION - AUXILIARY - BID ALTERNATE #1
1/8" = 1'-0"



A1 WEST ELEVATION - BID ALTERNATE #1
1/8" = 1'-0"



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BUILDING ELEVATIONS

BP-3R
A3.1
ALT #2



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REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

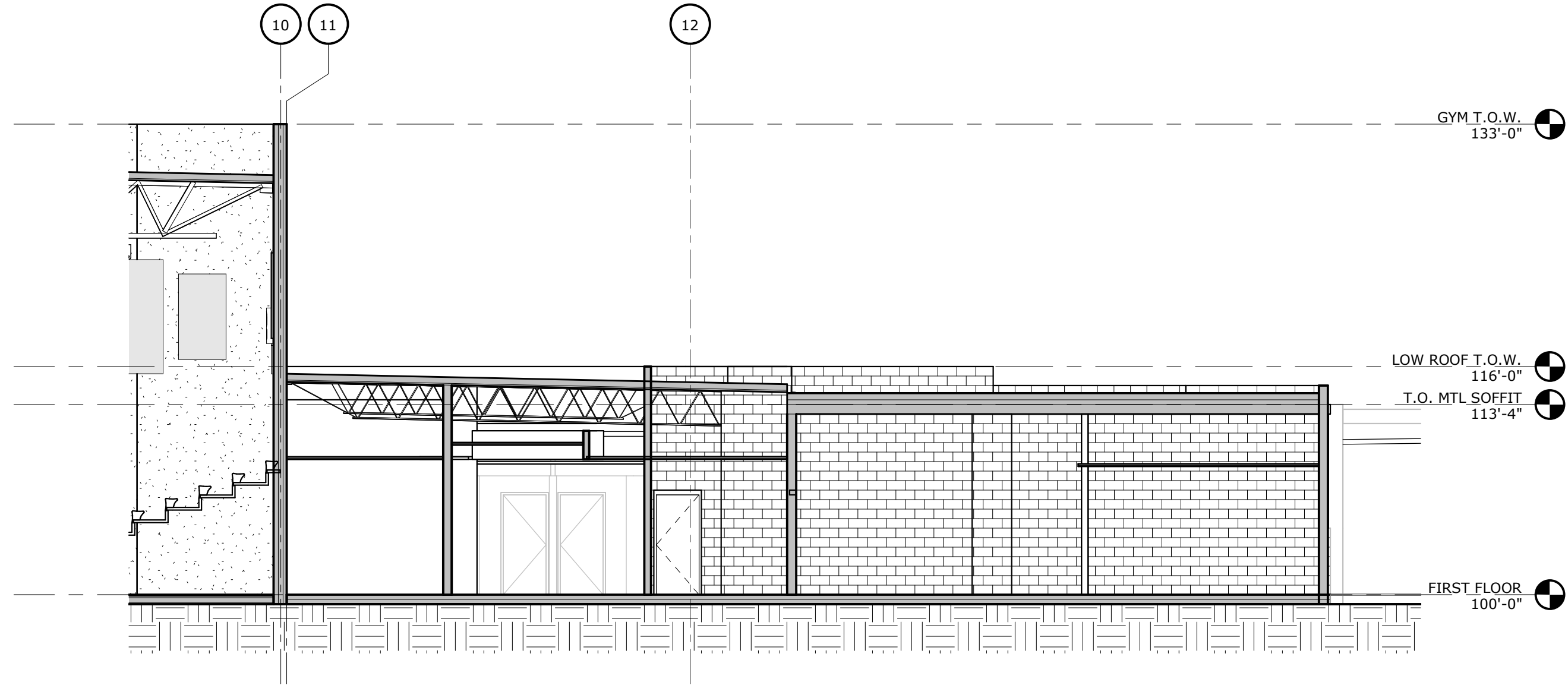
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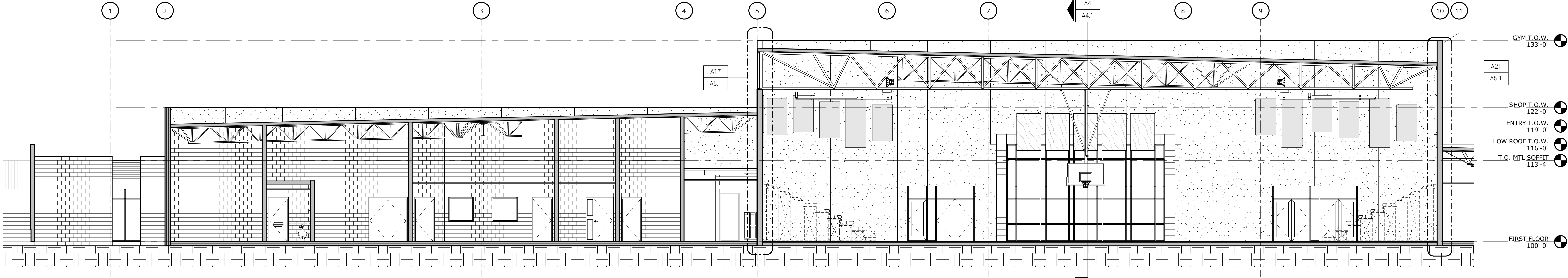
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REFERENCE ONLY

BUILDING SECTIONS

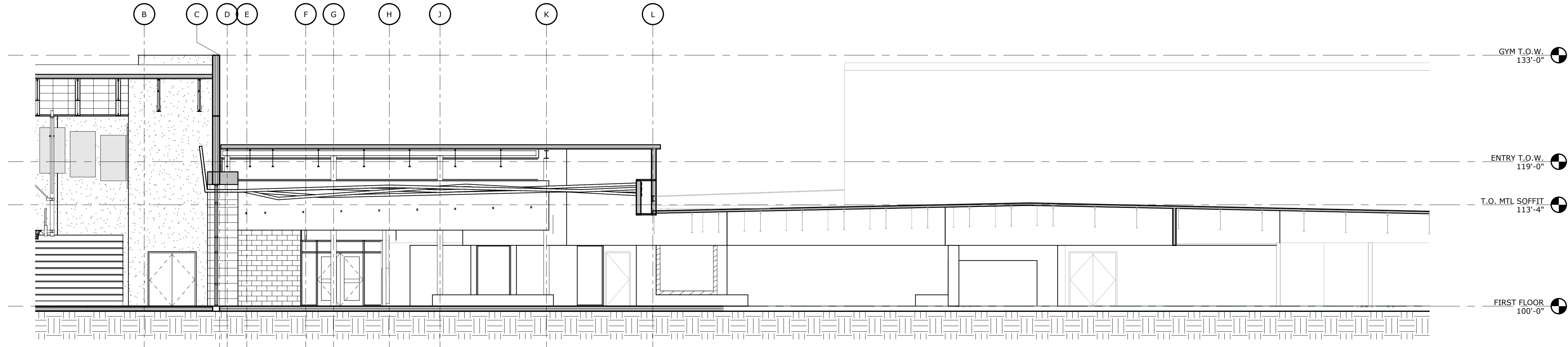
BP-3R
A4.1



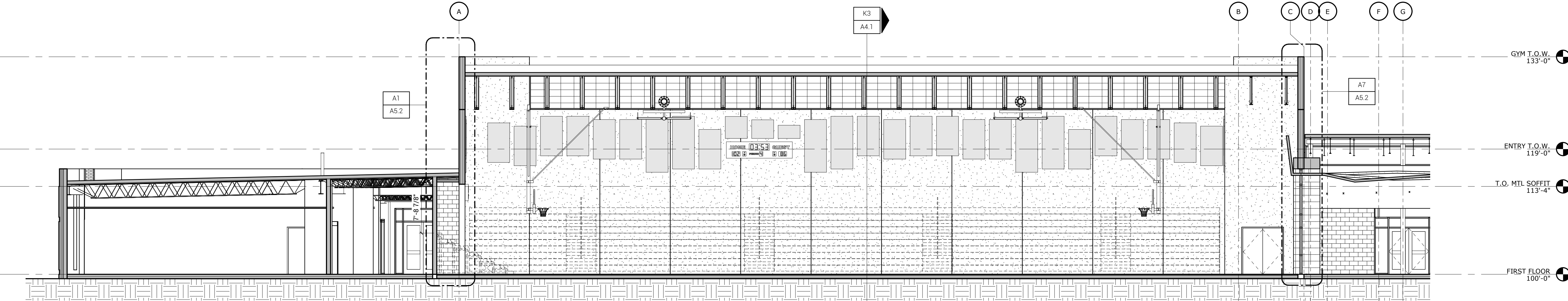
R15 BUILDING SECTION 02 CONT.
1/8" = 1'-0"



K3 BUILDING SECTION 02
1/8" = 1'-0" REF SHEET: A1 / A1.1



E7 BUILDING SECTION 01 CONT.
1/8" = 1'-0"



A4 BUILDING SECTION 01
1/8" = 1'-0" REF SHEET: A1 / A1.1



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MARK	DATE	DESCRIPTION

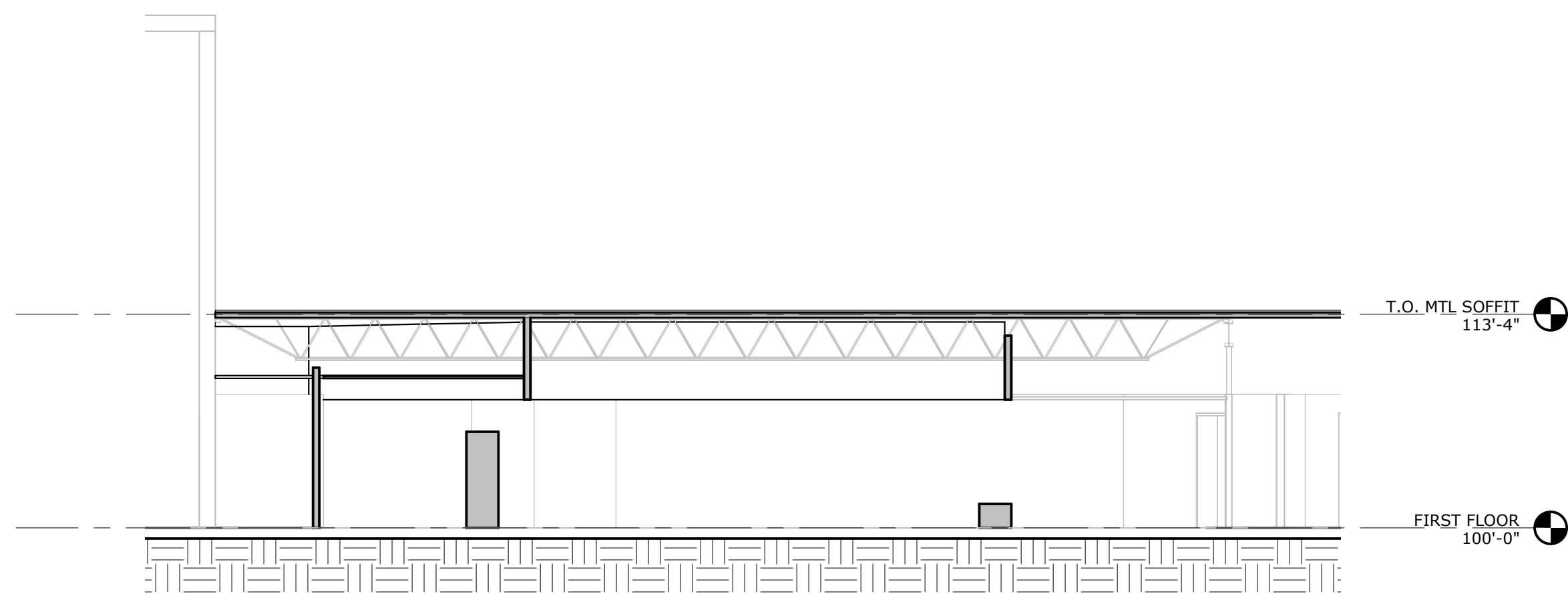
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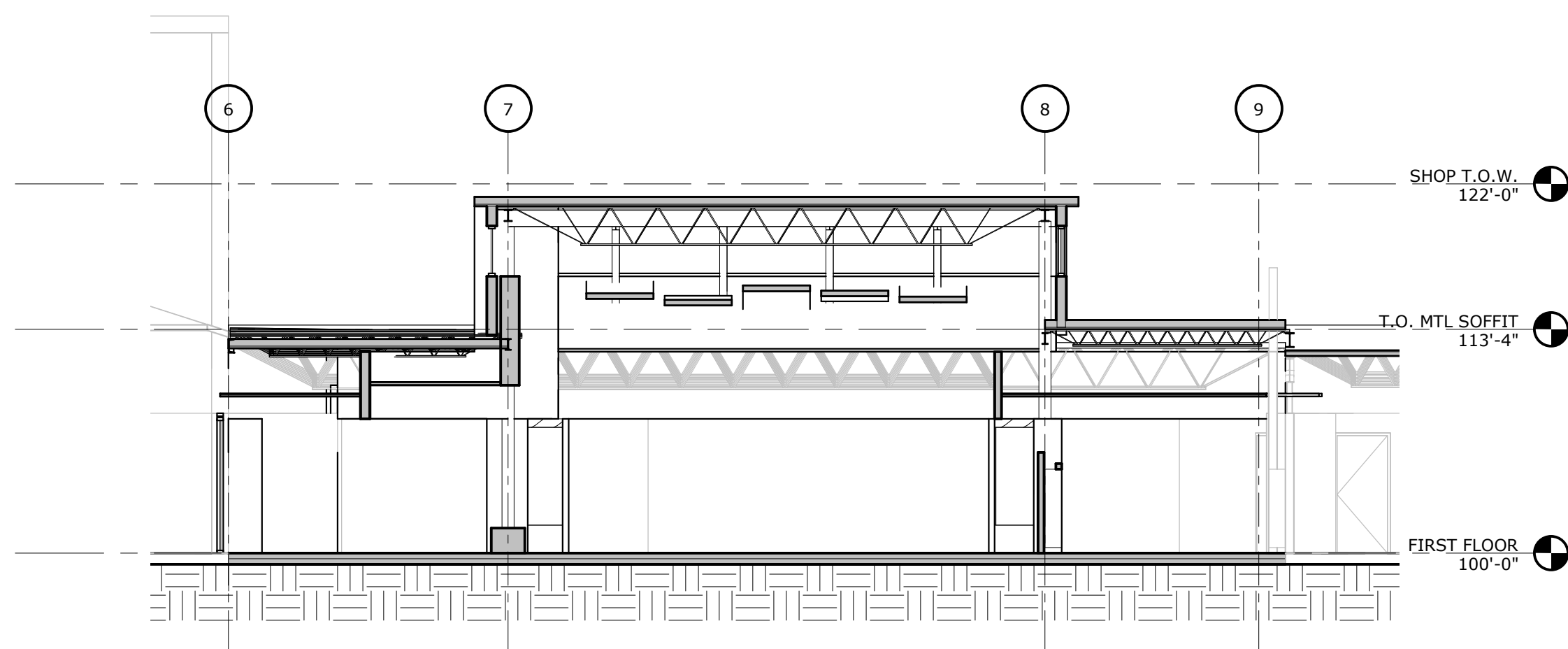
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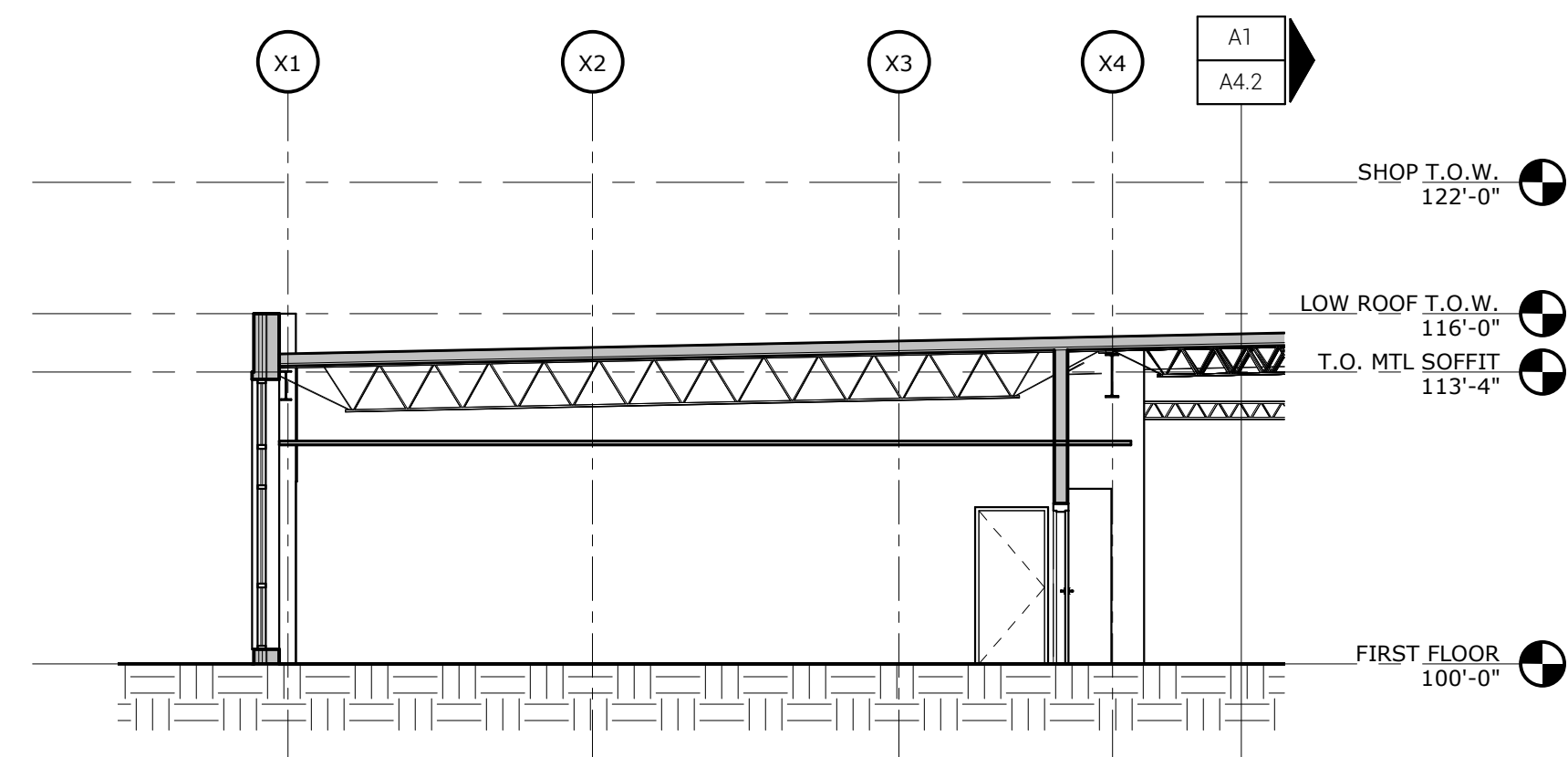
BP-3R
A4.2



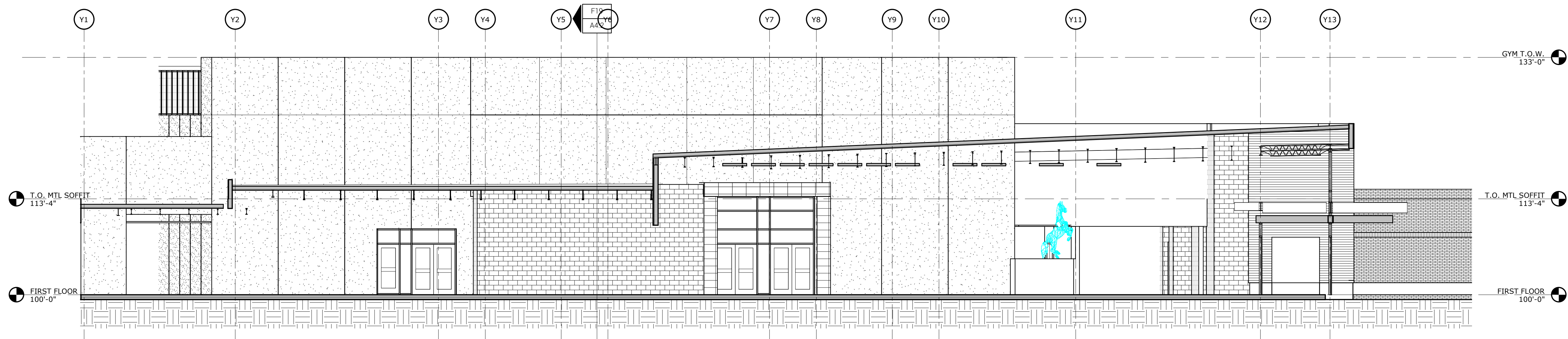
F1 BUILDING SECTION 06
1/8" = 1'-0" REF SHEET: A1 / A1.2



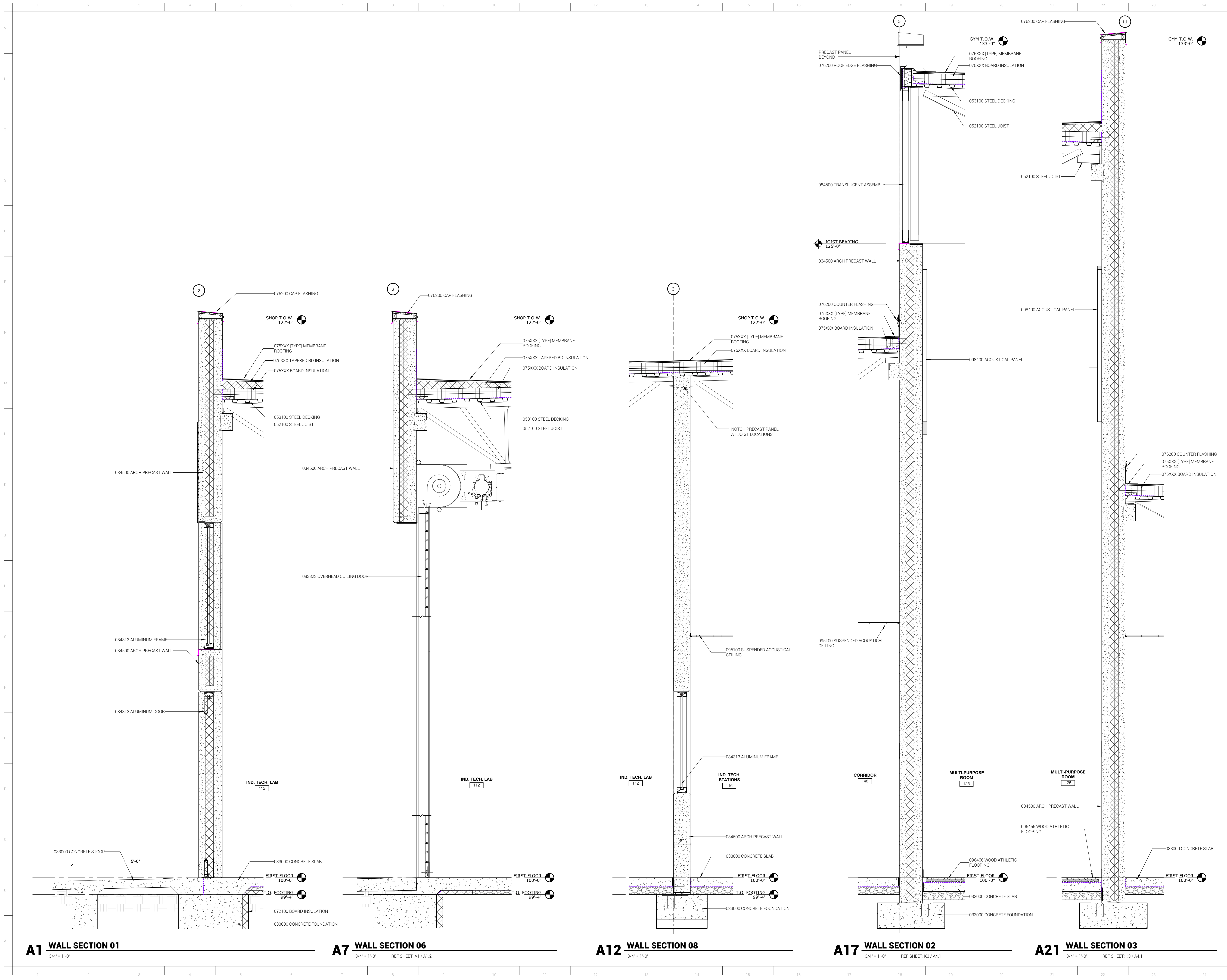
F10 BUILDING SECTION 05
1/8" = 1'-0" REF SHEET: A1 / A1.1



F19 BUILDING SECTION 03
1/8" = 1'-0" REF SHEET: A1 / A1.1



A1 BUILDING SECTION 04
1/8" = 1'-0" REF SHEET: A1 / A1.1



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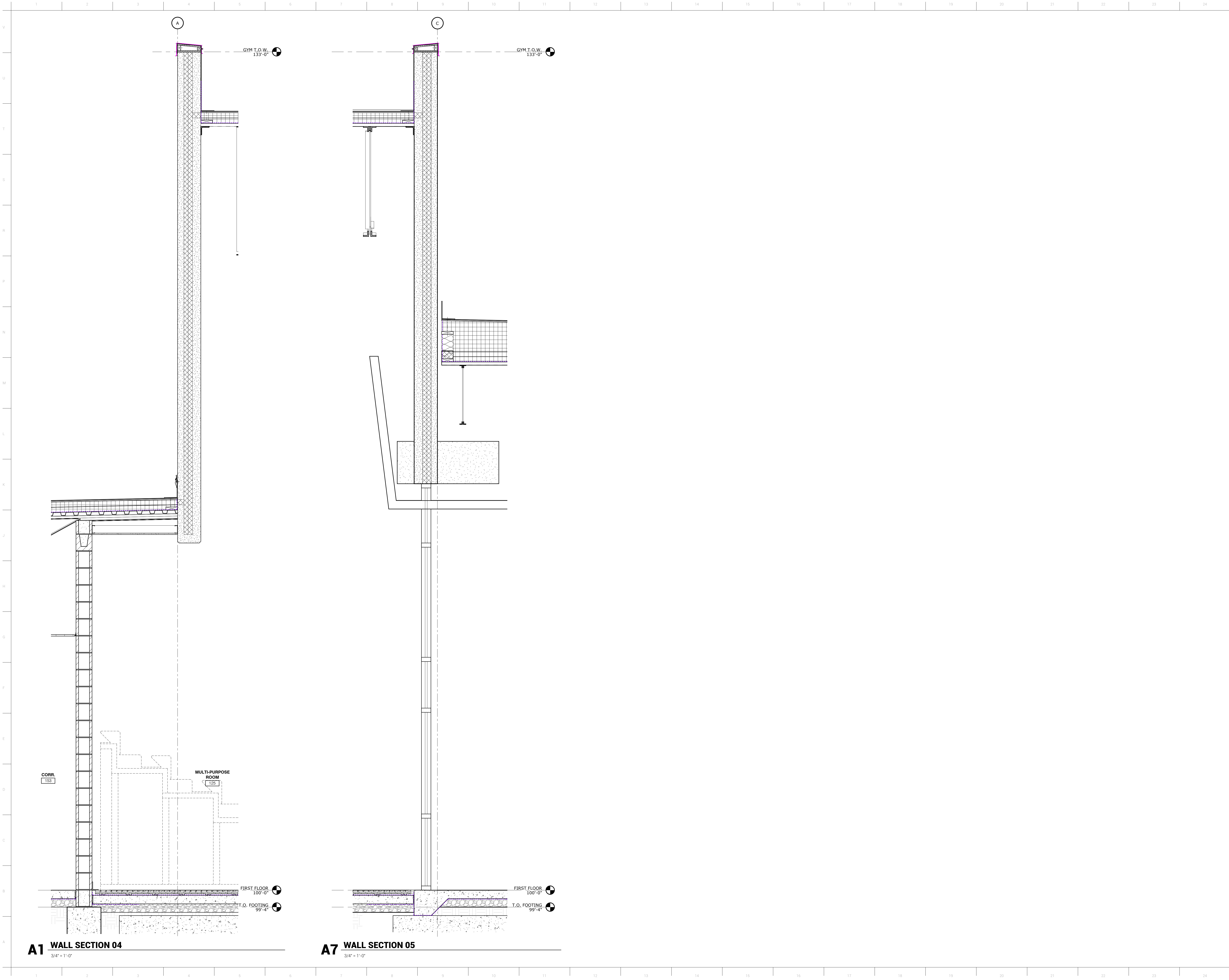
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WALL SECTIONS

BP-3R
A5.1



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WALL SECTIONS

BP-3R
A5.2



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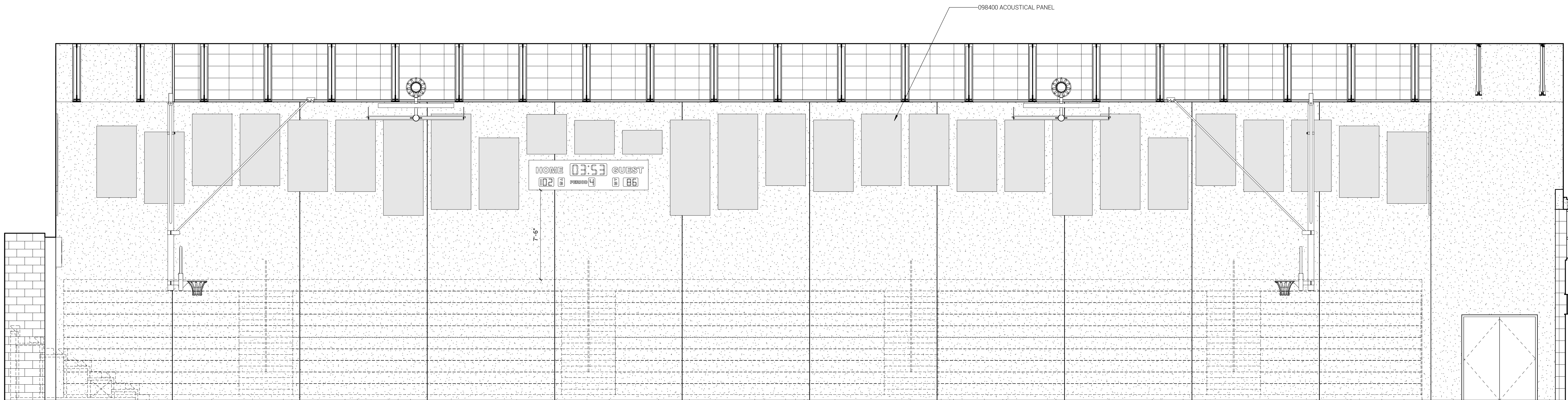
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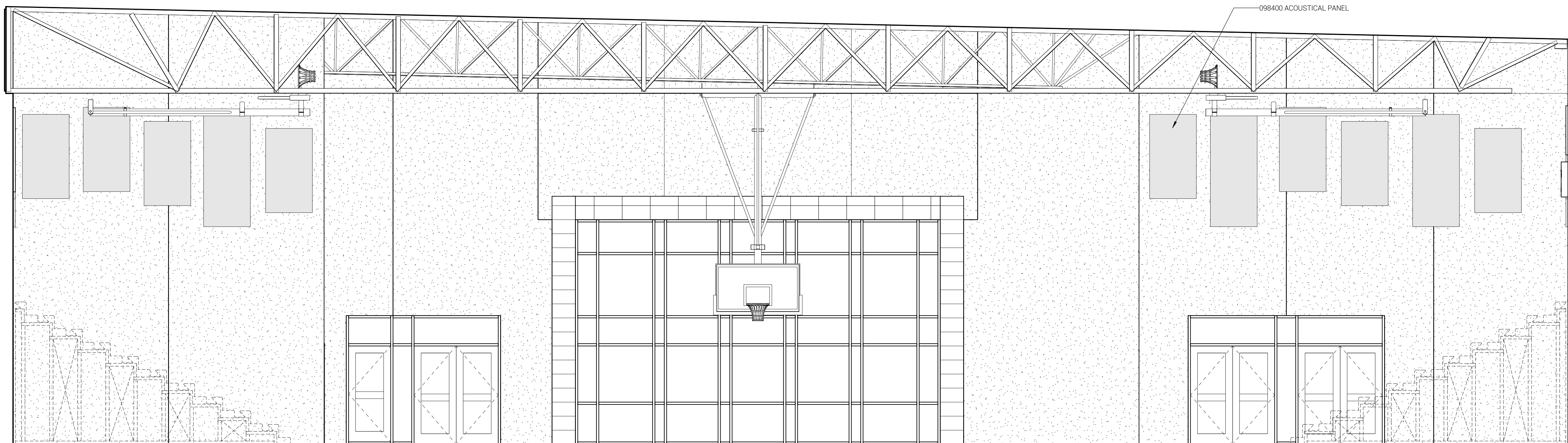
INTERIOR ELEVATIONS



BP-3R
A8.2



H1 INT ELEV - MULTI-PURPOSE ROOM 125 NORTH
1/4" = 1'-0"



A5 INT ELEV - MULTI-PURPOSE ROOM 125 EAST
1/4" = 1'-0"



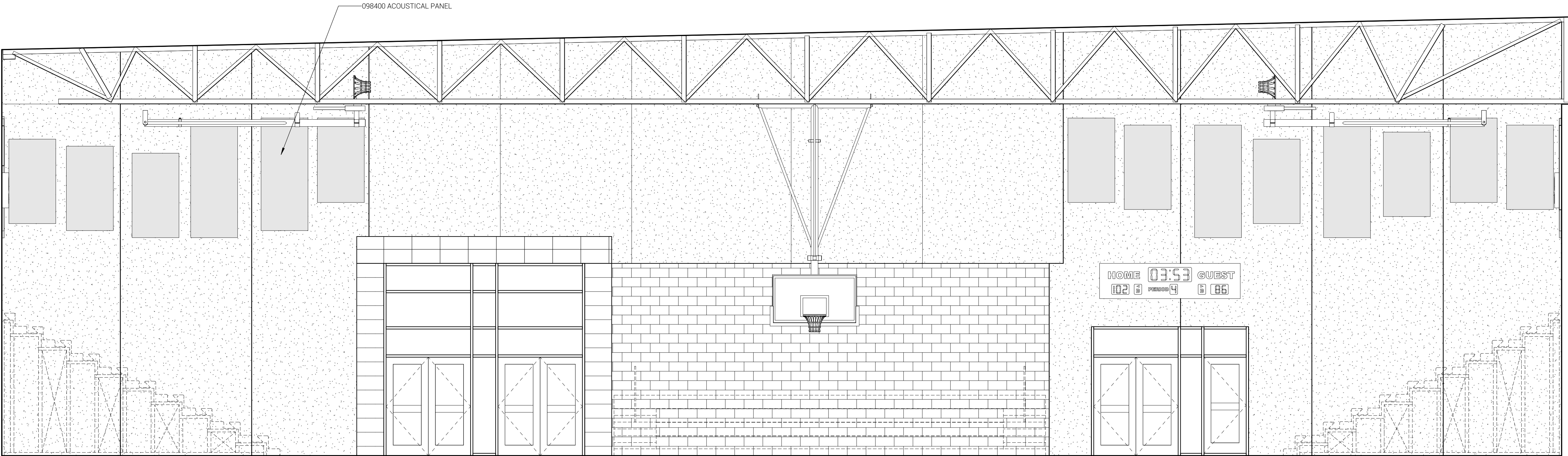
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REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

H1 INT ELEV - MULTI-PURPOSE ROOM 125 SOUTH



A4 INT ELEV - MULTI-PURPOSE ROOM 125 WEST
1/4" = 1'-0"

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INTERIOR ELEVATIONS



BP-3R
A8.3



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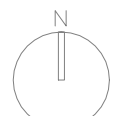
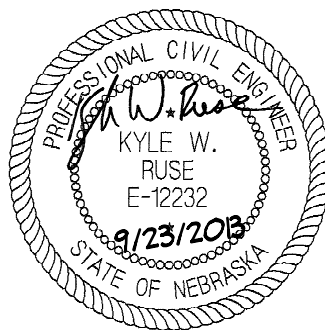
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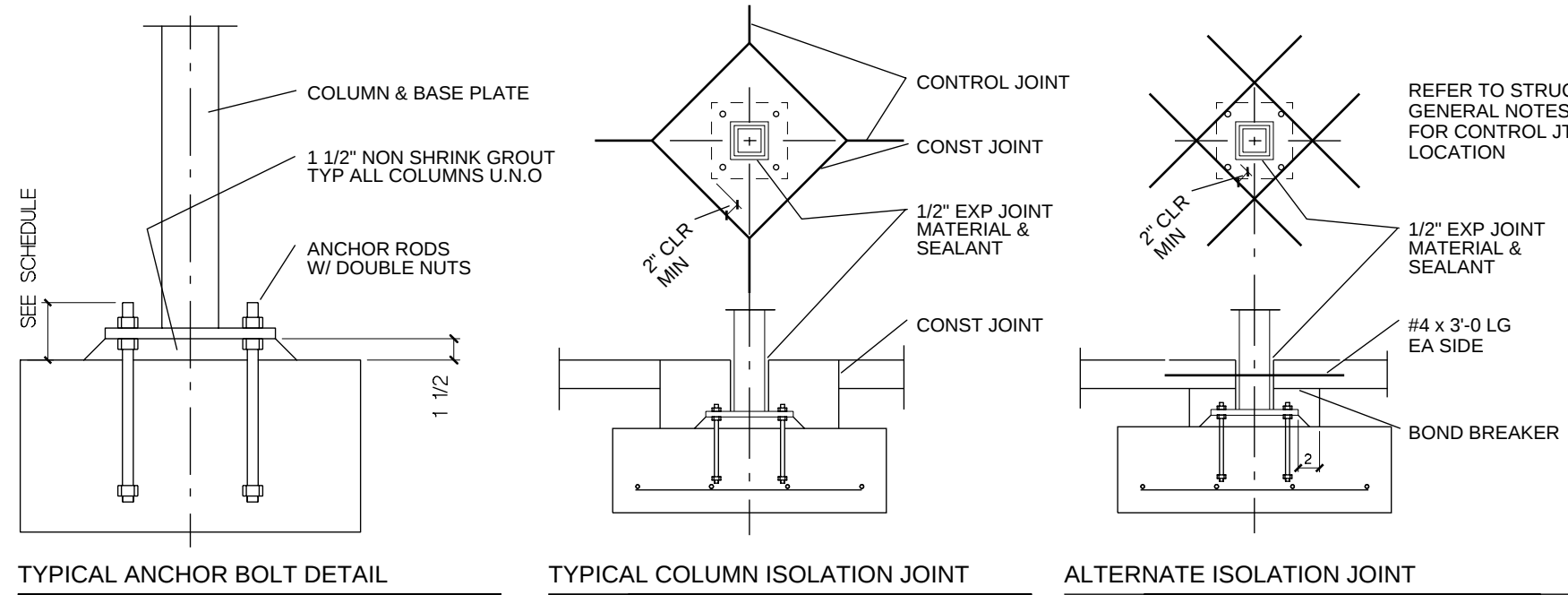
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MARK	DATE	DESCRIPTION

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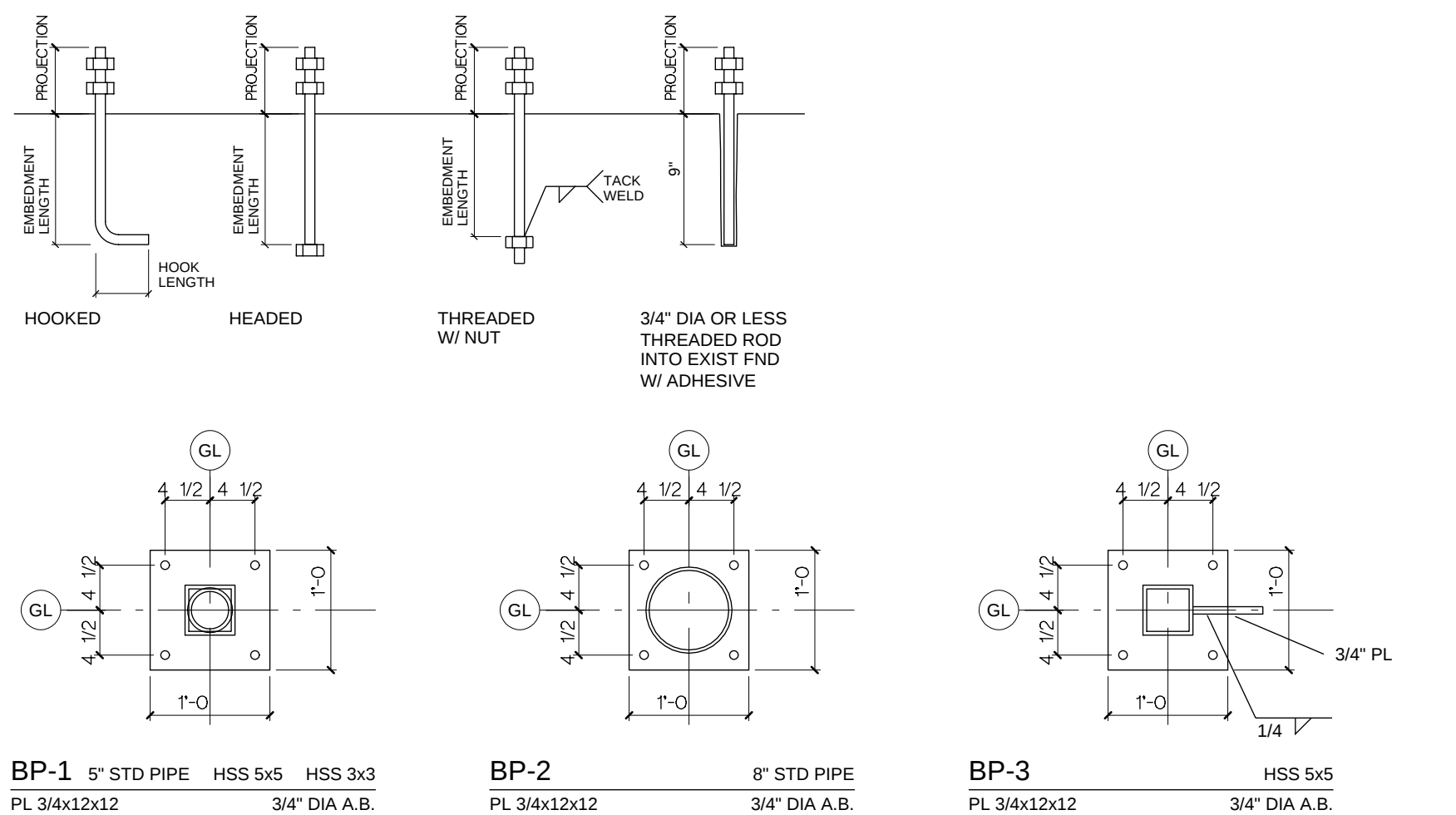


BP-3R
S1.1



ANCHOR ROD EMBEDMENT SCHEDULE			
DIA	HOOKE D ROD	HEADED ROD	
	HOOK LENGTH (MIN)	EMBEDMENT LENGTH (MIN)	PROJECTION (MIN)
1/2"	2"	6"	4"
3/4"	3"	9"	4"
1"	DO NOT USE HOOKED RODS	12"	6"
1 1/4"	DO NOT USE HOOKED RODS	15"	6"
1 1/2"	DO NOT USE HOOKED RODS	22"	6"

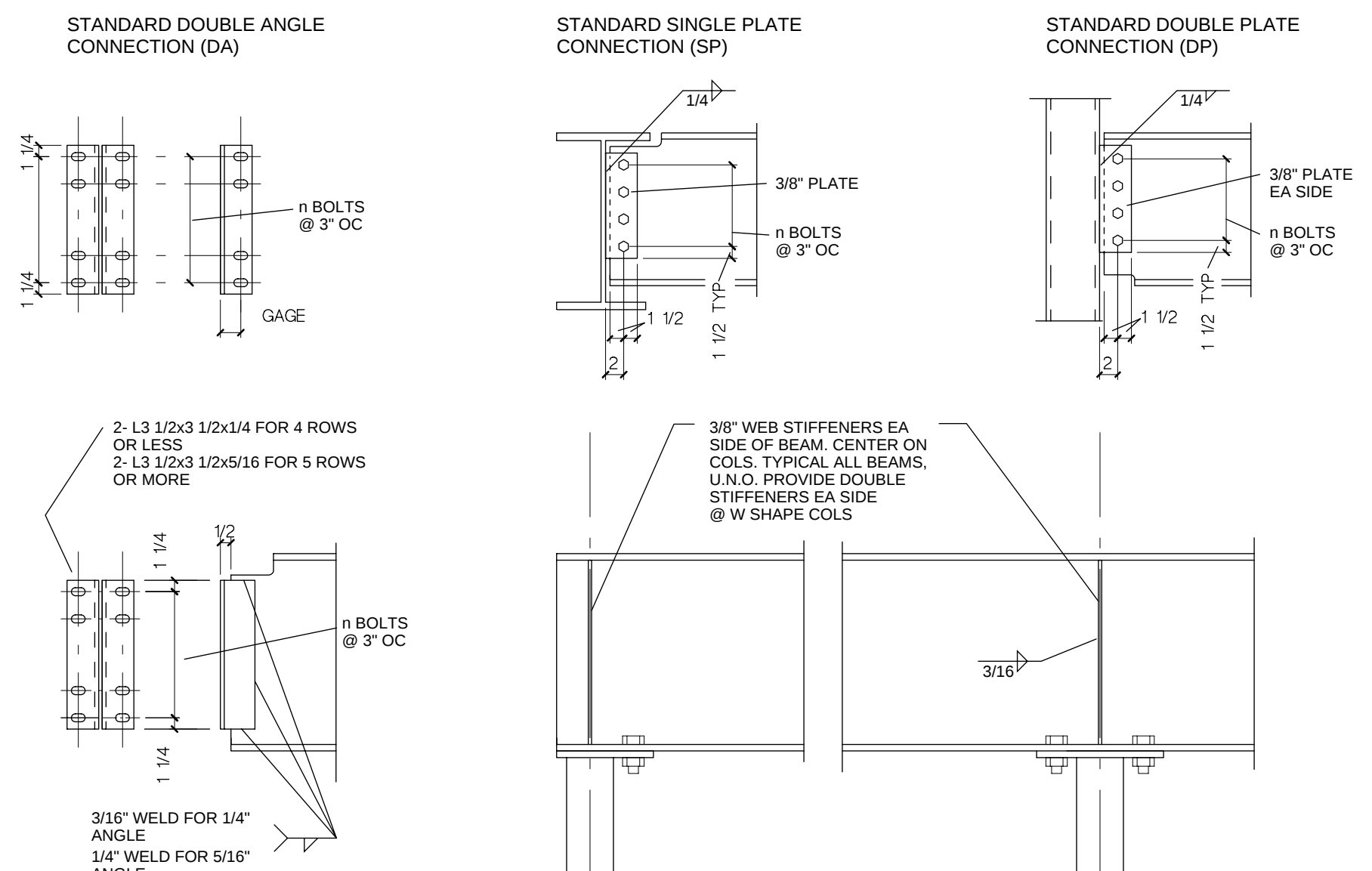
ANCHOR RODS SHALL CONFORM TO ASTM F1554, GRADE 36 INCREASE LENGTHS 4" FOR ANCHOR RODS IN PIERS & WALLS



COLUMN SCHEDULE AND DETAILS

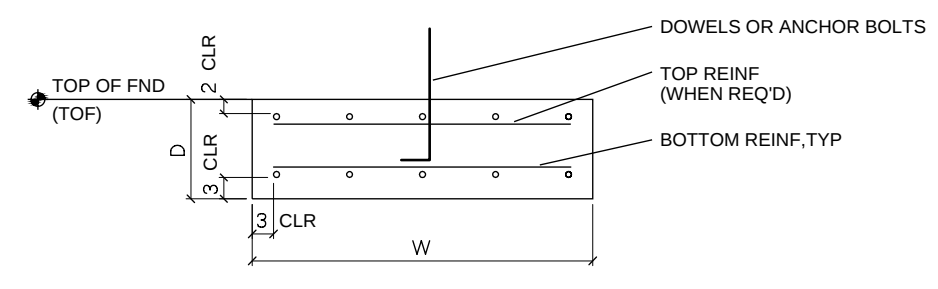
NUMBER OF 3/4" DIA A325N		BOLT ROWS REQD (n)						
BEAM SIZE	w8	w10	w12	w14	w16	w18	w21	w24
2" MAX COPE	2	2	3	3	4	5	5	6
4 1/2" MAX COPE	-	-	2	2	3	4	5	5

- NOTES:
- ALL PRIMARY BEAM TO PRIMARY BEAM OR PRIMARY BEAM TO COLUMN CONNECTIONS SHALL BE DOUBLE ANGLE OR DOUBLE PLATE CONNECTIONS



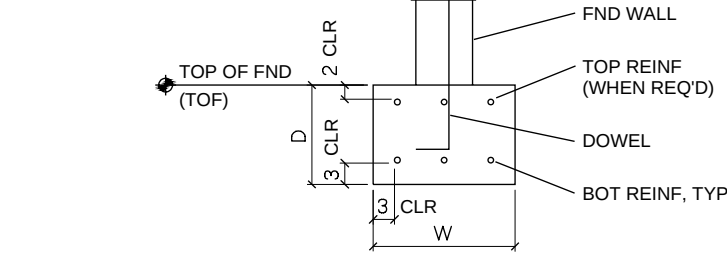
STANDARD STEEL CONNECTION SCHEDULE

MK	PLAN SIZE	DEPTH	REINFORCING
F-1	2'-6" x 2'-6"	3'-0"	4 - #5 EA WAY TOP & BOT
F-2	4'-0" x 4'-0"	1'-0"	4 - #5 EA WAY @ BOT
F-3	5'-6" x 5'-6"	1'-0"	5 - #5 EA WAY @ BOT
F-4	4'-0" x 4'-0"	3'-0"	6 - #5 EA WAY TOP & BOT

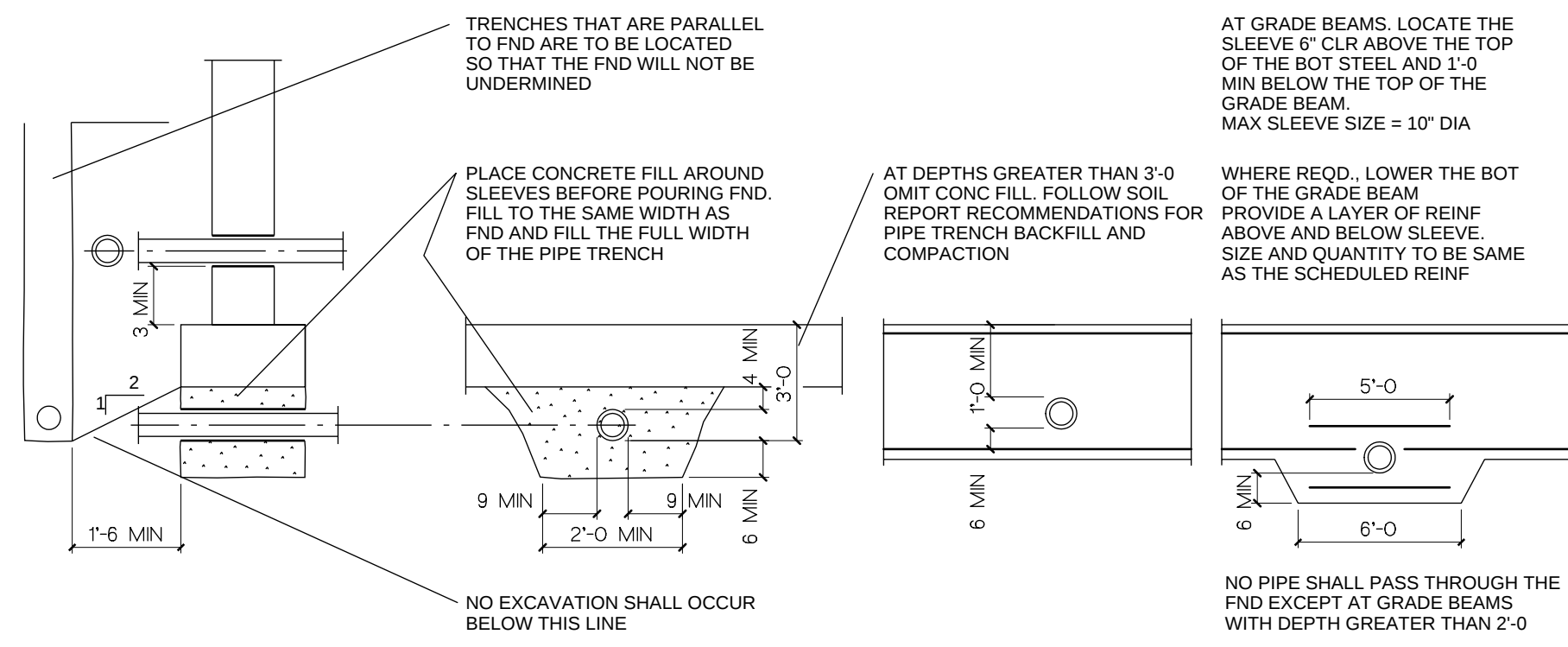


SPREAD FOOTING SCHEDULE

MK	WIDTH	DEPTH	REINFORCING
CF-1	2'-0"	3'-0"	3 - #5 CONTINUOUS @ TOP & BOT
CF-2	1'-0"	3'-0"	2 - #5 CONTINUOUS @ TOP & BOT
CF-3	2'-6"	3'-0"	4 - #6 CONTINUOUS @ TOP & BOT
CF-4	2'-0"	1'-0"	2 - #5 CONTINUOUS @ BOT
CF-5	3'-4"	1'-0"	3 - #5 CONTINUOUS @ BOT
CF-6	2'-6"	1'-0"	3 - #5 CONTINUOUS @ BOT
CF-7	1'-4"	2'-8"	2 - #5 CONTINUOUS @ TOP & BOT
CF-8	4'-0"	2'-4"	4 - #5 CONTINUOUS @ TOP & BOT
CF-9	1'-4"	1'-0"	2 - #5 CONTINUOUS @ BOT
CF-10	2'-6"	3'-0"	4 - #5 CONTINUOUS @ TOP & BOT
CF-11	4'-6"	3'-0"	6 - #5 CONTINUOUS @ TOP & BOT

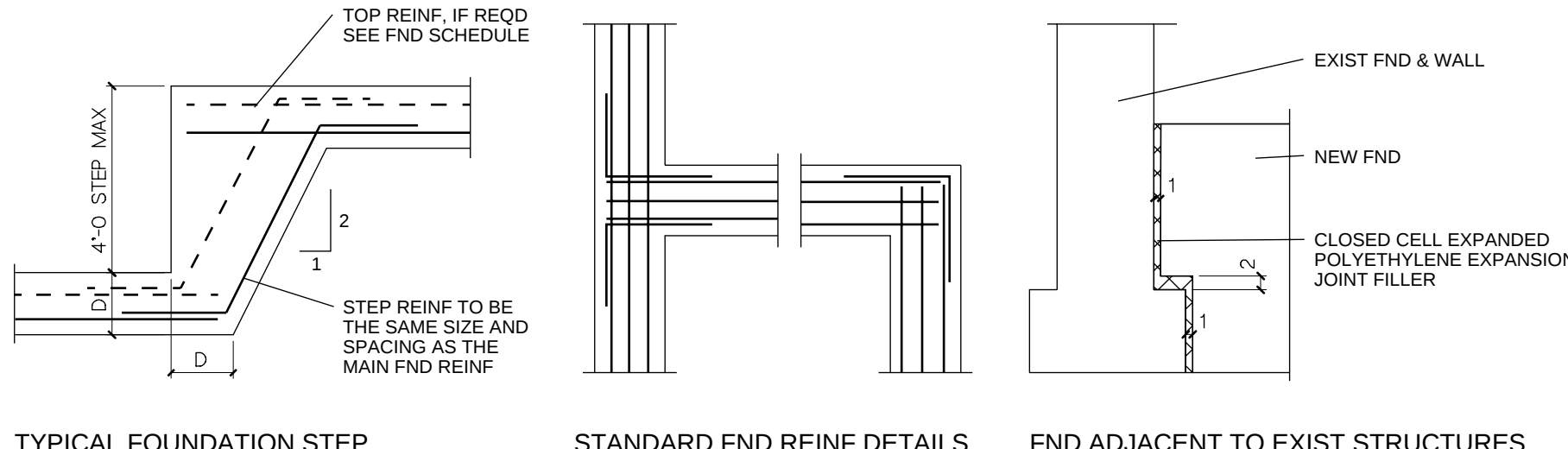


CONTINUOUS FOOTING SCHEDULE



DETAIL FOR PIPES AND TRENCHES LOCATED AT FOOTINGS AND GRADE BEAMS

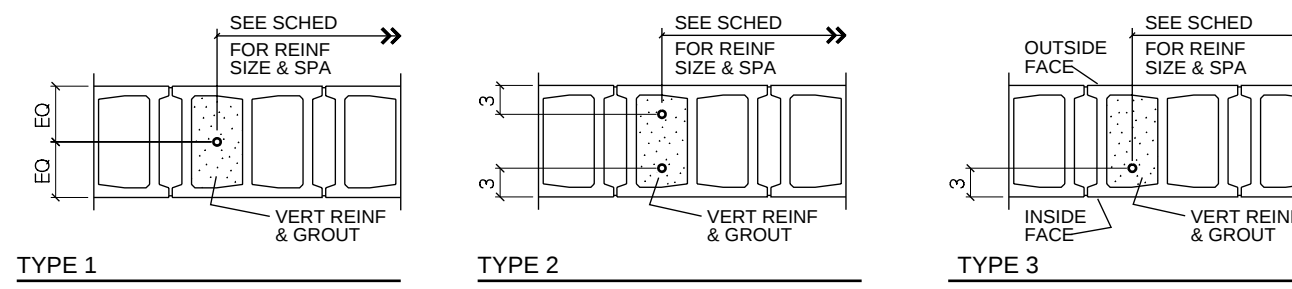
- NOTES:
- SEE GENERAL STRUCTURAL NOTES FOR SPLICE LENGTHS AND CLEAR COVER REQUIREMENTS
 - CORNER & INTERSECTION BARS ARE TO BE THE SAME SIZE AND SPA AS THE MAIN HORIZ REINF.
 - CORNER & INTERSECTION BARS TO HAVE STANDARD 90 DEG HOOK



TYPICAL FOUNDATION DETAILS

MK	TYPE	SIZE	VERTICAL REINFORCING	BOND COURSE REINF
(A)	1	8"	#5 @ 48" OC	CMU SIZE
(B)	1	8"	#5 @ 8" OC	REINF SIZE
(C)	1	6"	#5 @ 48" OC	1 - #3
(D)	1	6"	#5 @ 16" OC	1 - #4

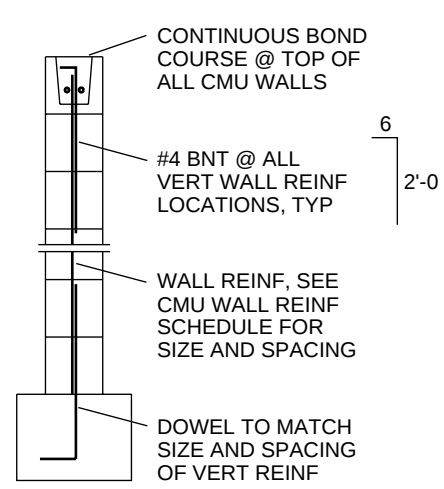
- NOTES:
- PROVIDE HORIZ JOINT REINF @ 1'-4" OC TYP U.N.O. SEE GENERAL STRUC NOTES FOR DESCRIPTION
 - SEE GENERAL STRUCTURAL NOTES AND DESIGN DATA FOR GROUT MIX DESIGN AND GROUT LIFT REQUIREMENTS
 - REFER TO TYPICAL CMU WALL REINFORCING DETAILS



NOTES:

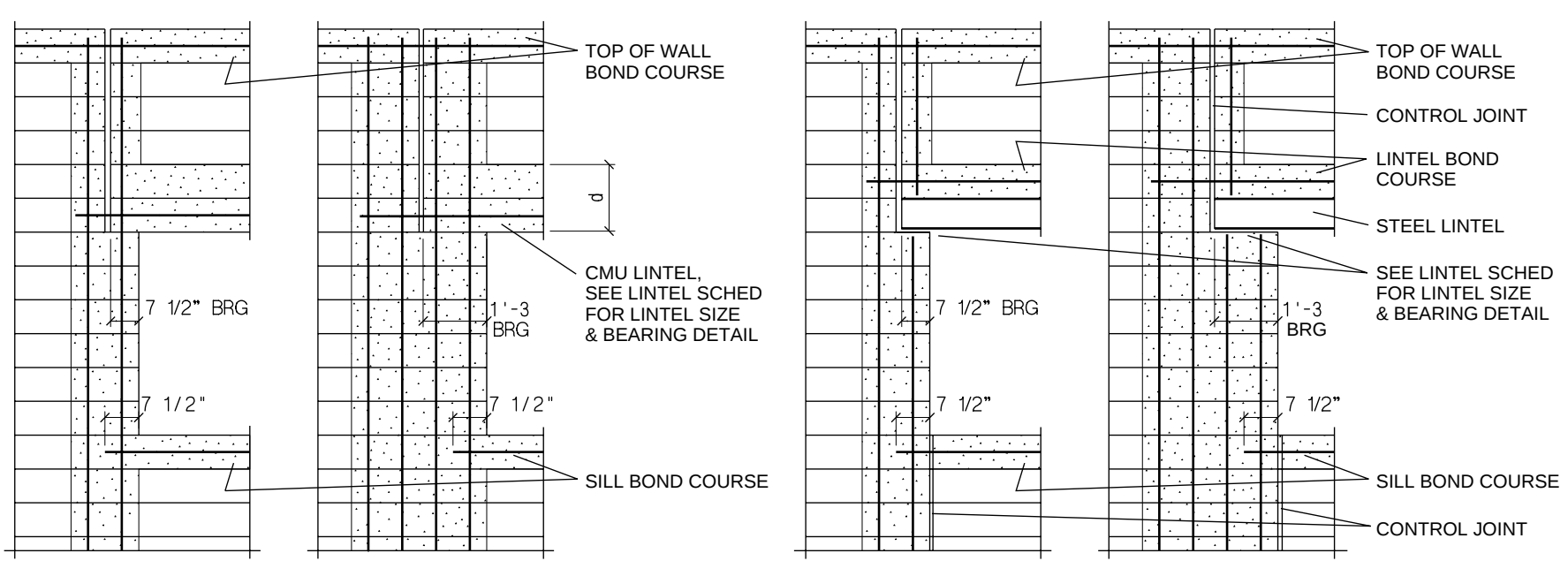
- SEE SECTIONS OR CMU REINF SCHEDULE FOR REINF SIZE AND SPACING
- PROVIDE REINFORCING FROM FND TO TOP OF WALL AT VERTICAL WALL REINF DETAILS
- PROVIDE A CONTINUOUS BOND COURSE AT TOP OF OR WITH IN 3 COURSES OF THE TOP OF ALL CMU WALLS AND PARTITIONS
- LOCATE CMU CONTROL JOINTS @ 2'-0" OC MAX IN WALLS 16'-0" OR GREATER IN HEIGHT @ 2'-0" OC MAX IN WALLS LESS THAN 16'-0" IN HEIGHT
- PROVIDE A CONTINUOUS BOND COURSE AT ALL JOIST BEARING ELEVATIONS
- LOCATE CMU CONTROL JOINTS AT BRICK EXPANSION JOINTS EXCEPT WHEN BRICK EXPANSION JOINTS ARE WITHIN 4'-0" OF A CORNER
- SEE ARCH DWGS FOR LOCATION OF BRICK EXPANSION JOINTS

CMU REINF NOTES



VERTICAL REINF

VERTICAL REINF DETAILS



REIN DETAILS @ OPNGS W/ CMU LINTELS

PROVIDE A CONTROL JOINT AT ONE JAMB MIN. @ OPENINGS LESS THAN 6'-0" IN WIDTH PROVIDE A CONTROL JOINT AT BOTH JAMBS @ OPENINGS 6'-0" AND GREATER IN WIDTH

TYPICAL CMU REINFORCING DETAILS



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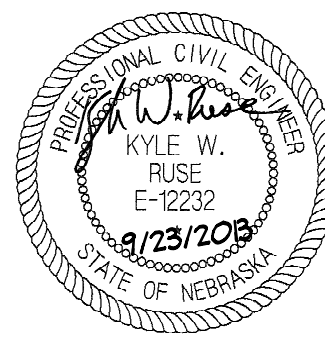
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LINCOLN, NE 68508
V 402 476 1273
F 402 476 1274
ETH-ENGINEERS.COM

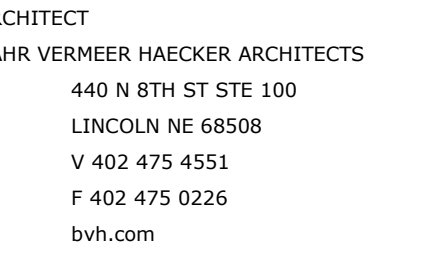
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REGA ENGINEERING GROUP, INC.
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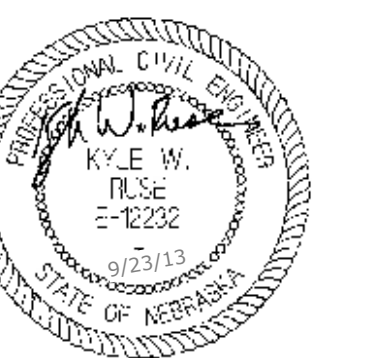
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regaengineering.com

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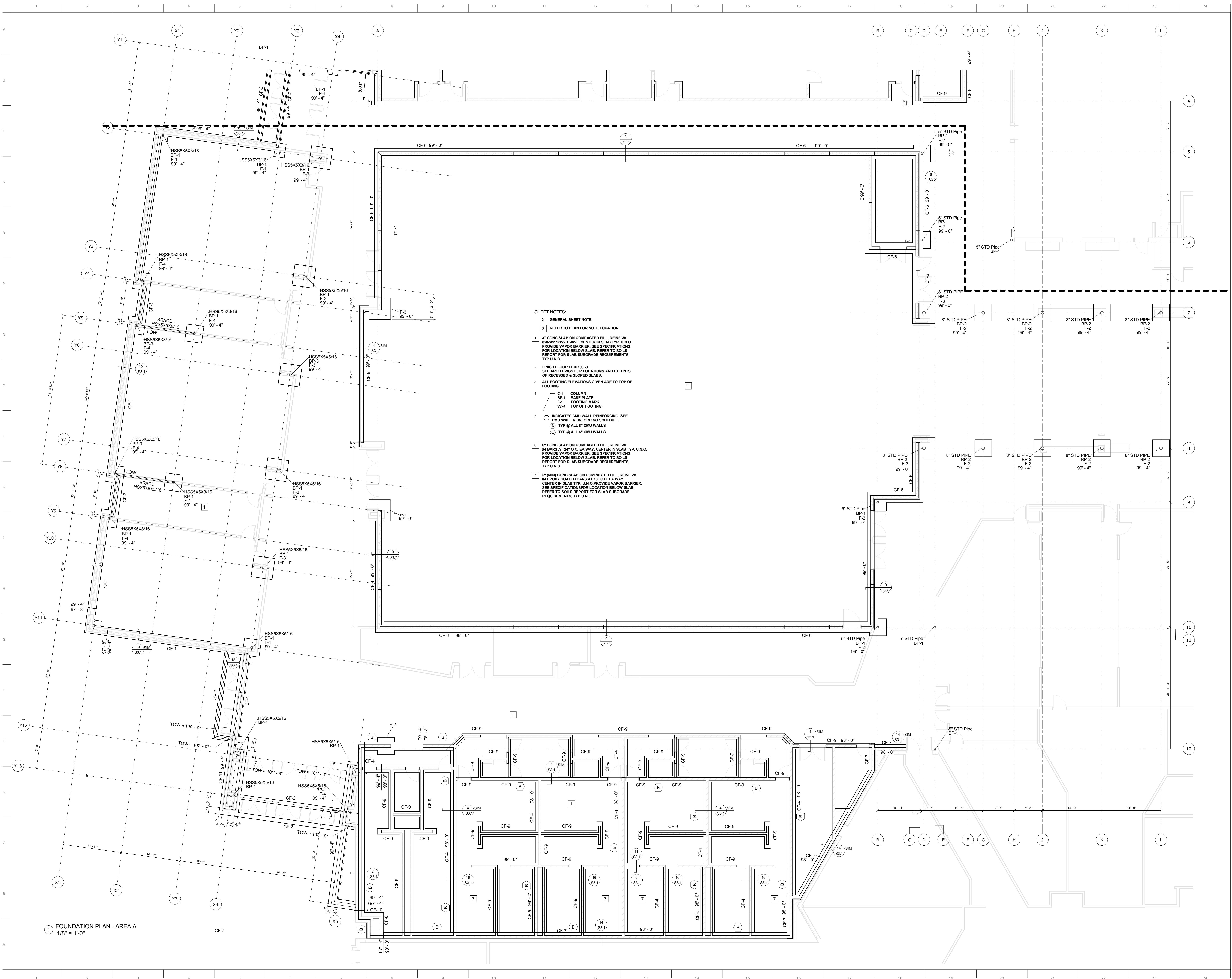
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FOUNDATION PLAN -
REA A

P-3R

S2.1



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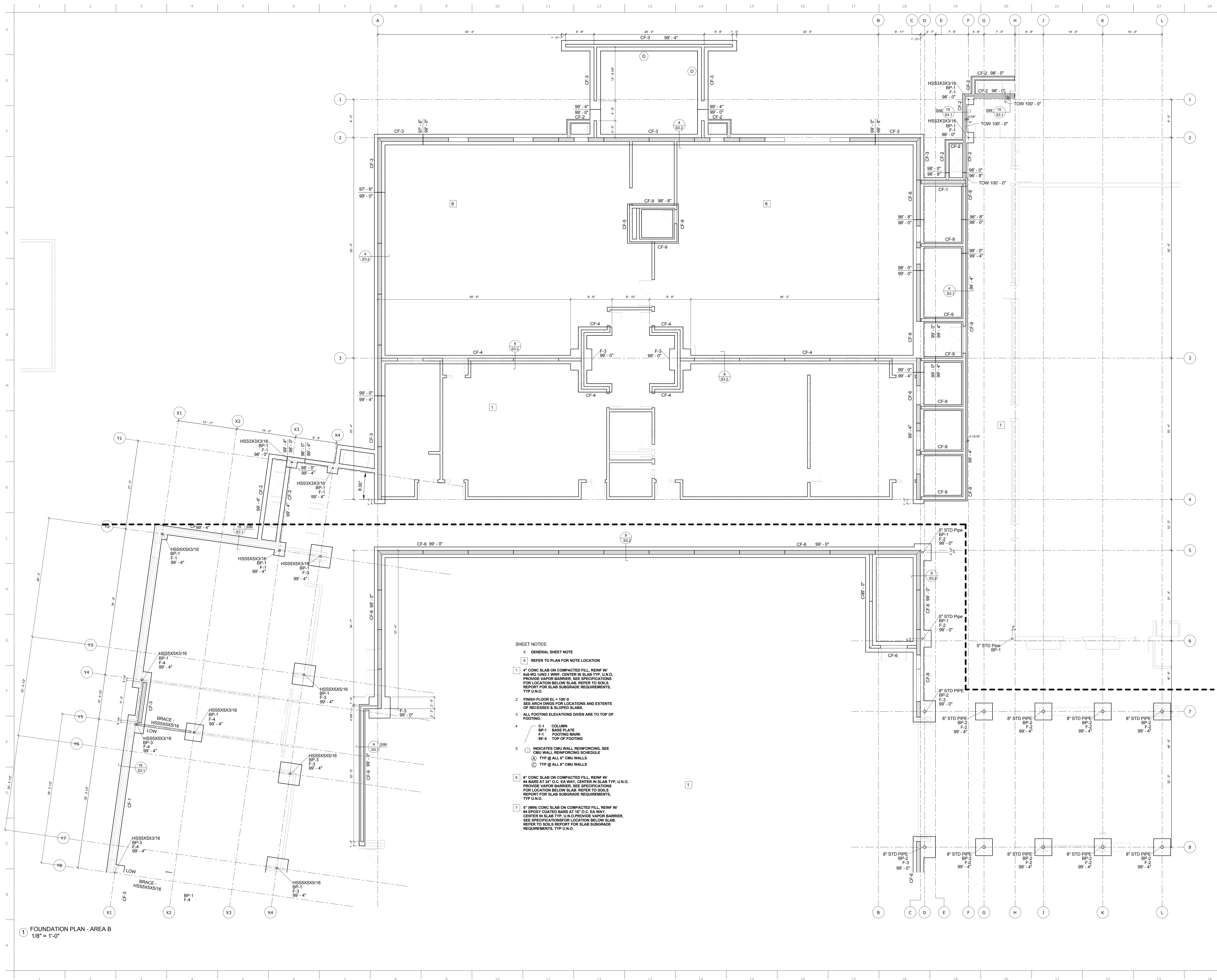


FOUNDATION PLAN -
AREA B



BP-3R

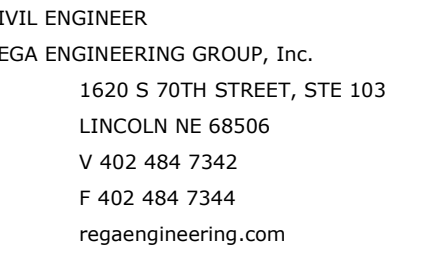
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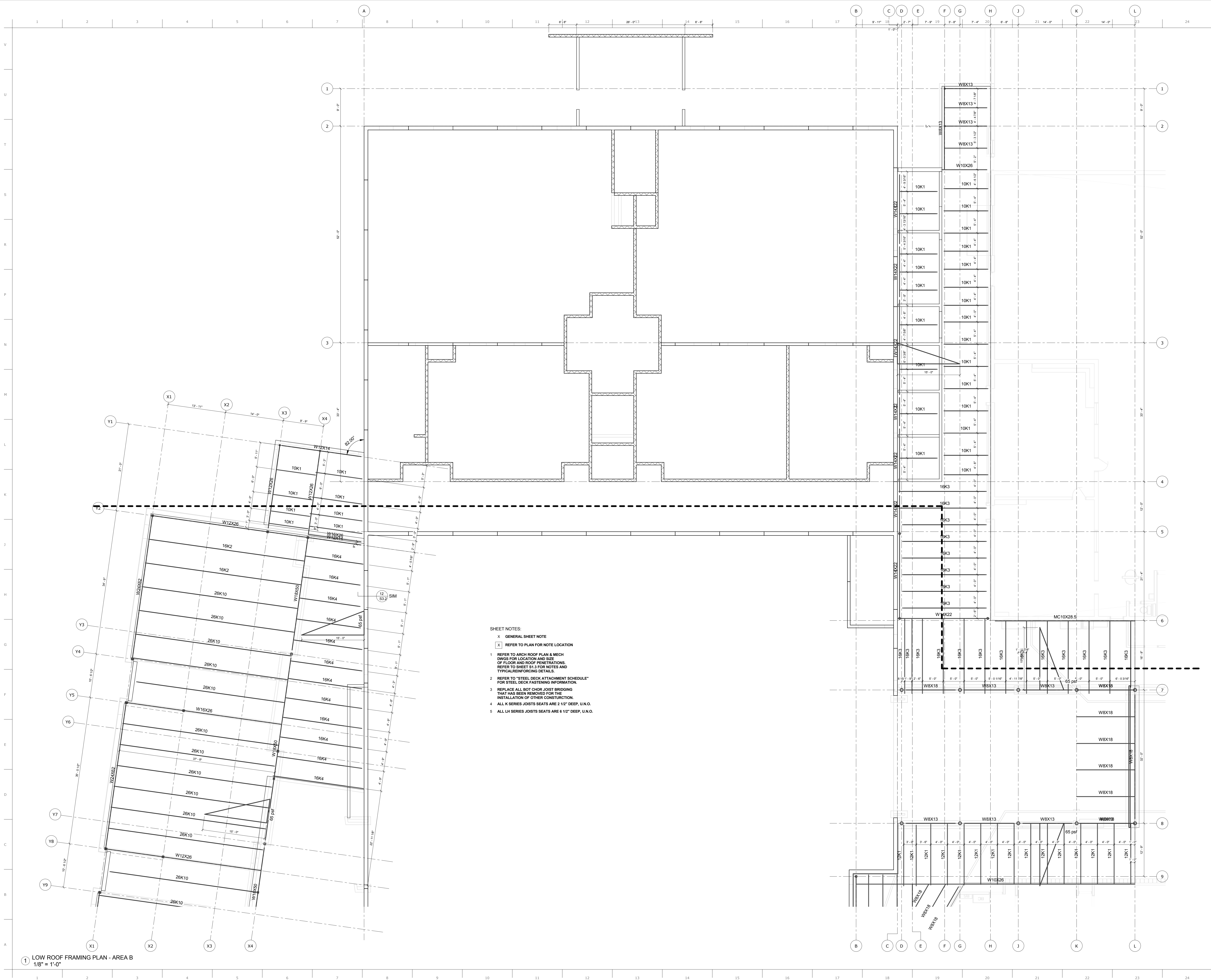


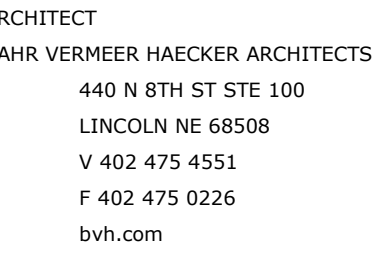
52.3

① LOW ROOF FRAMING PLAN - AREA A
1/8" = 1'-0"



BP-3R
S2.4





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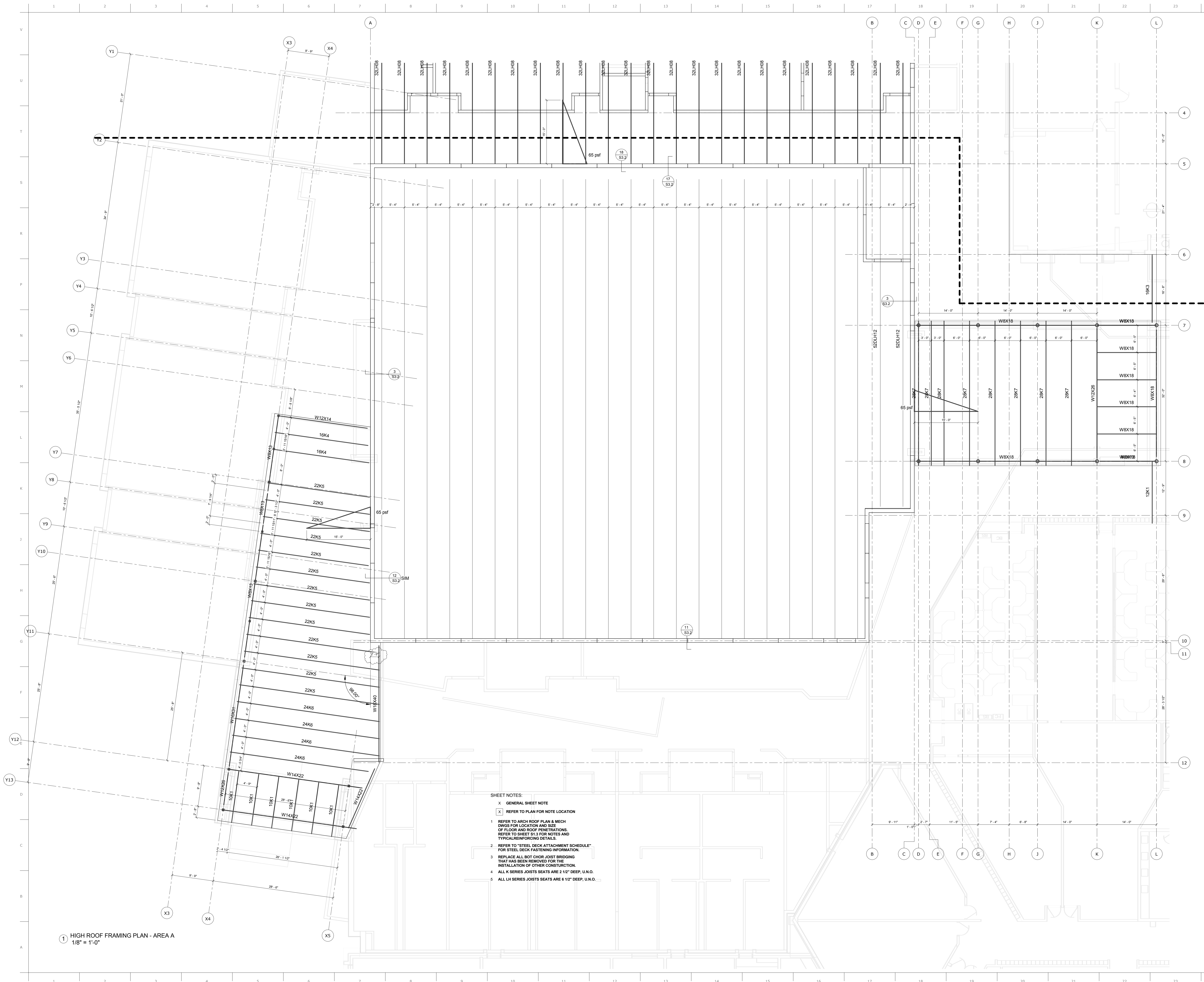
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HIGH ROOF FRAMING
PLAN - AREA A



BP-3R

S2.5





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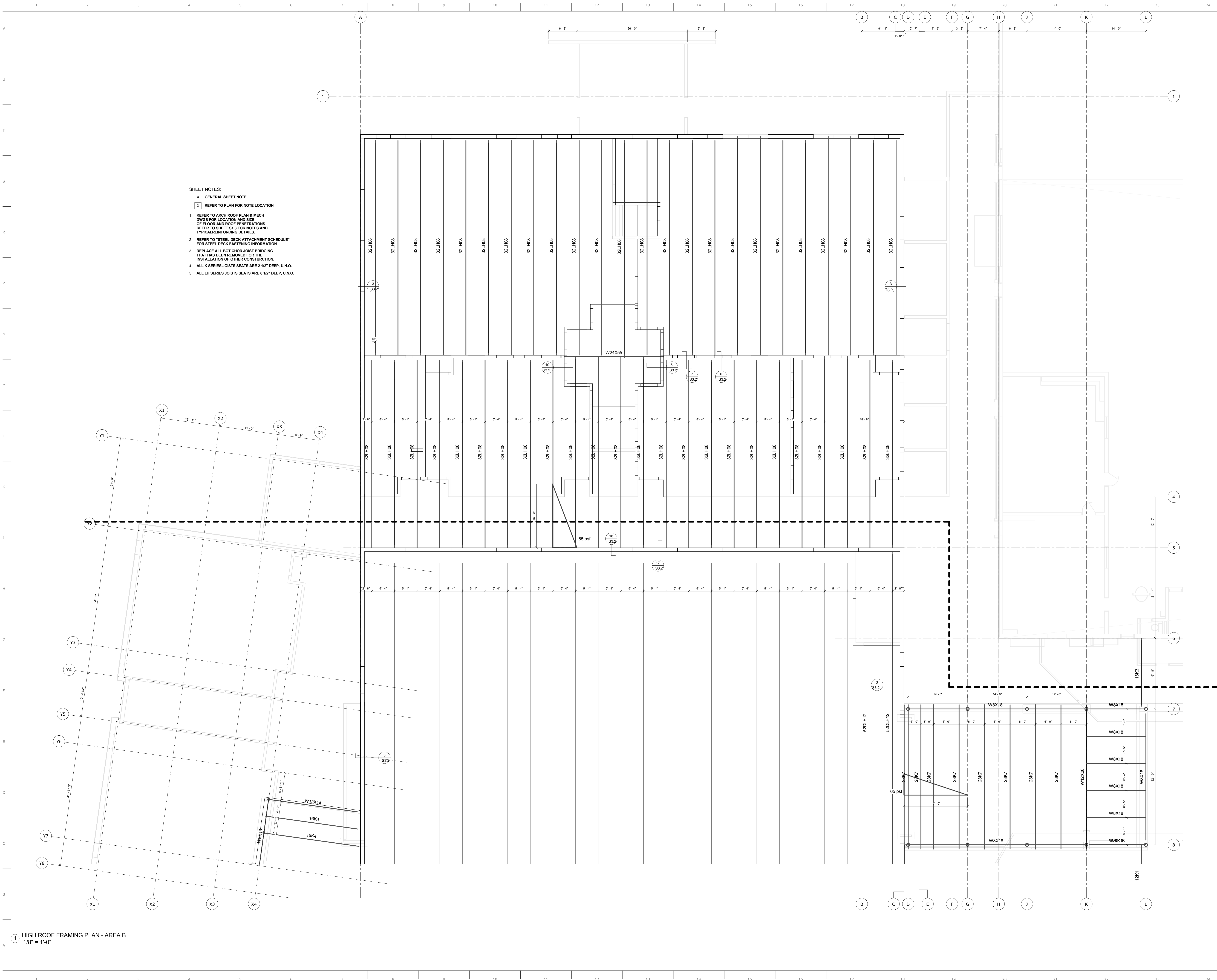
HIGH ROOF FRAMING
PLAN - AREA B

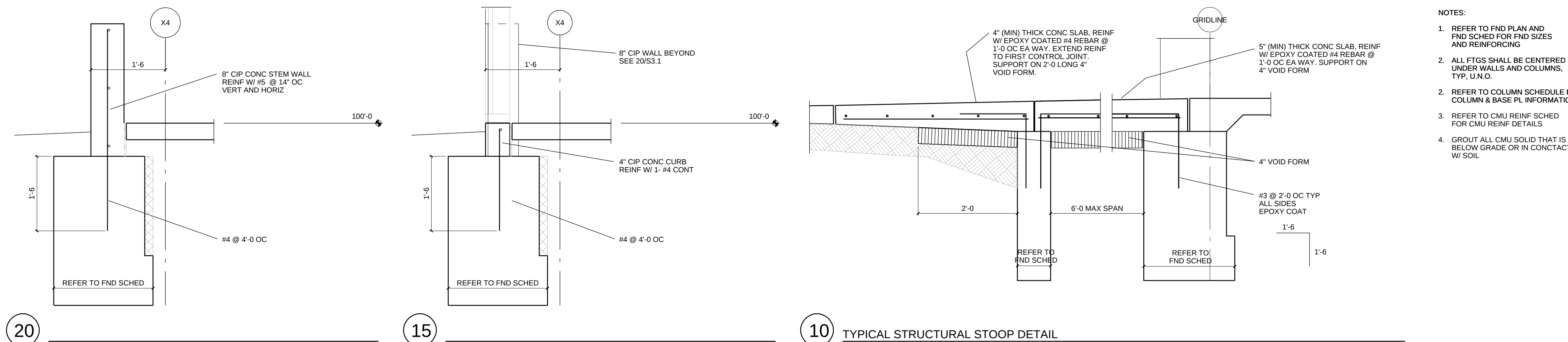
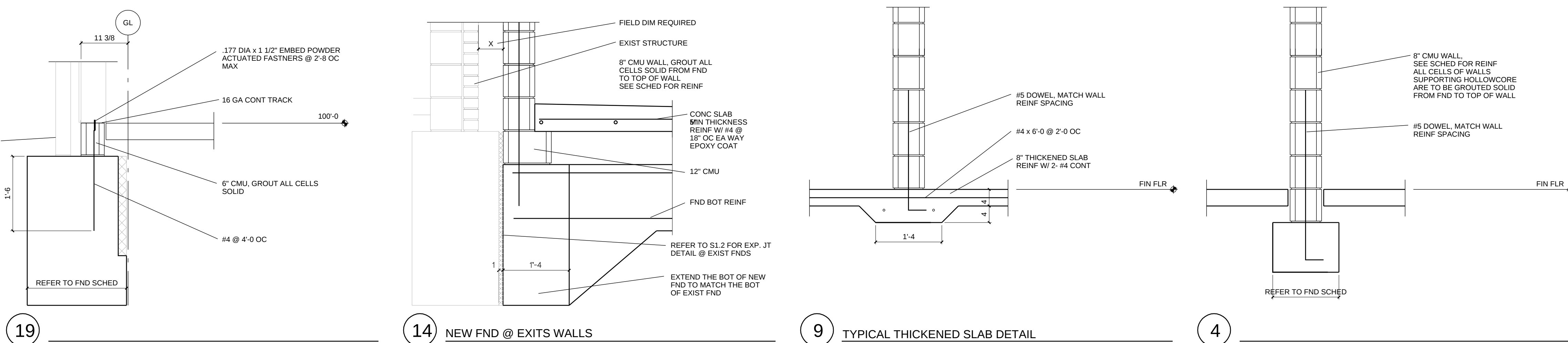
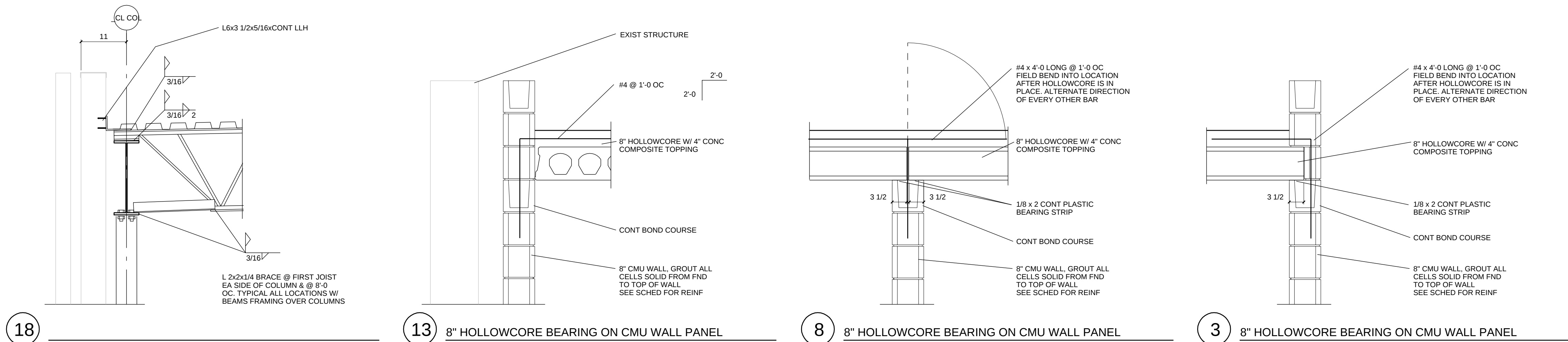
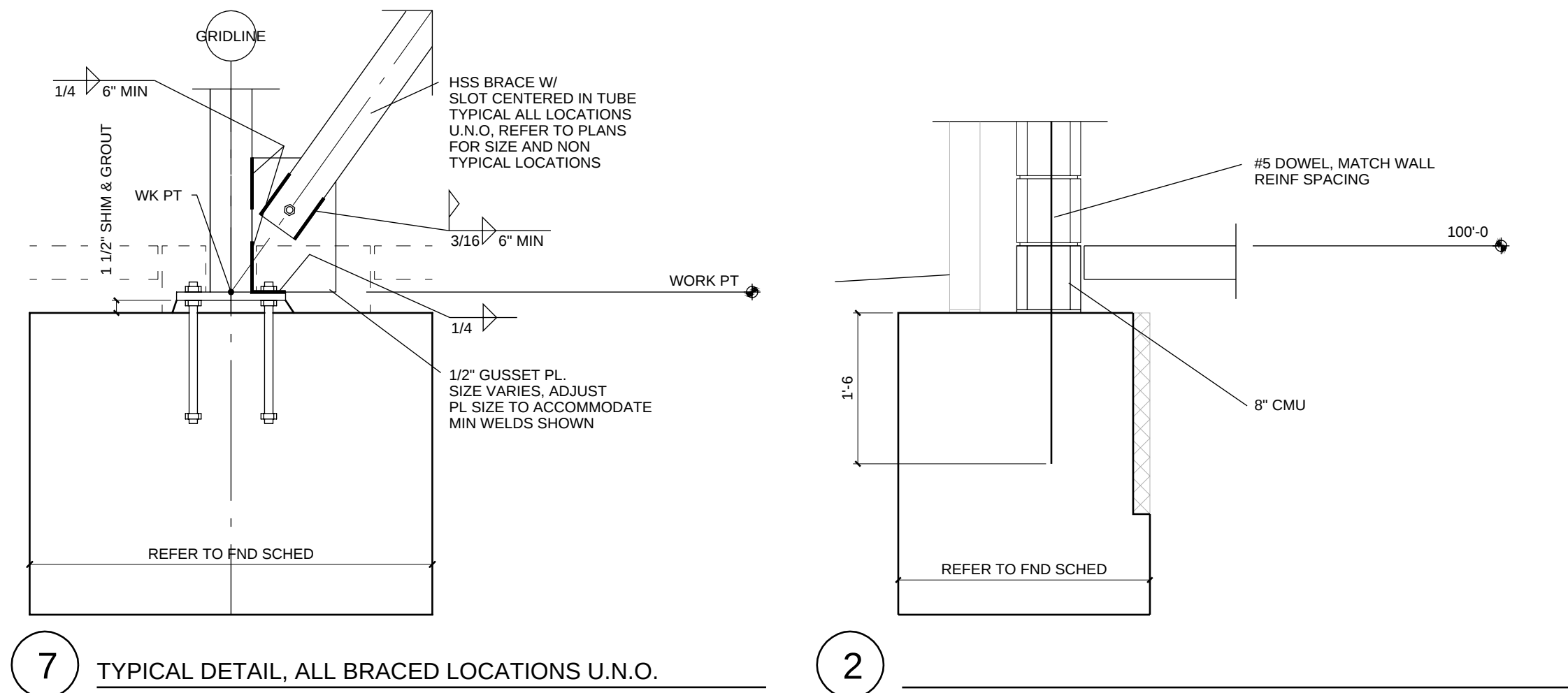
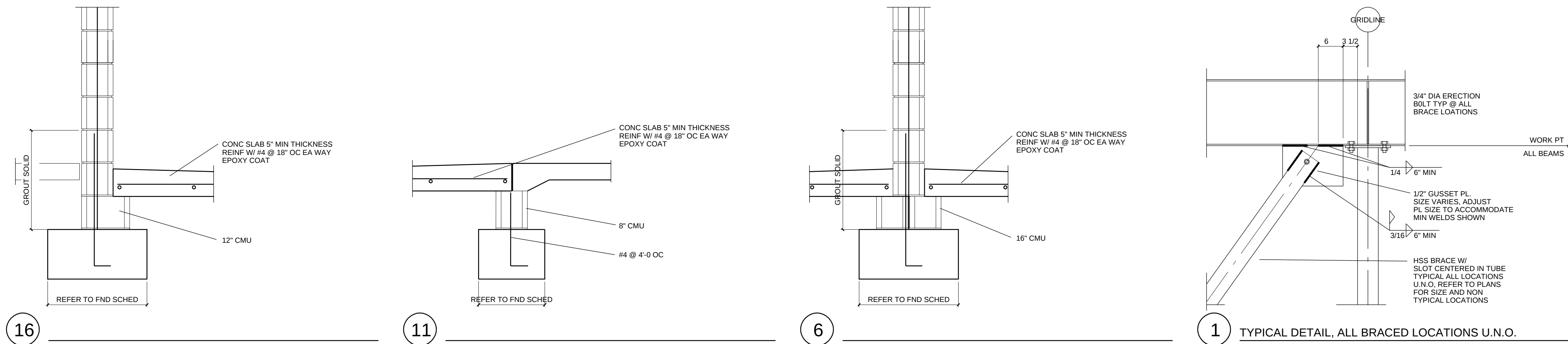
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BP-3R

S2.6



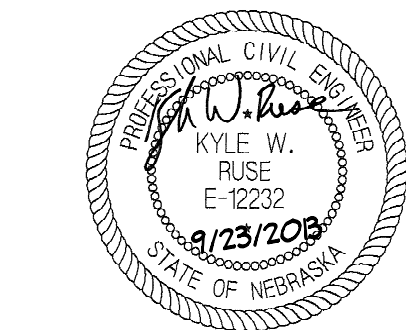


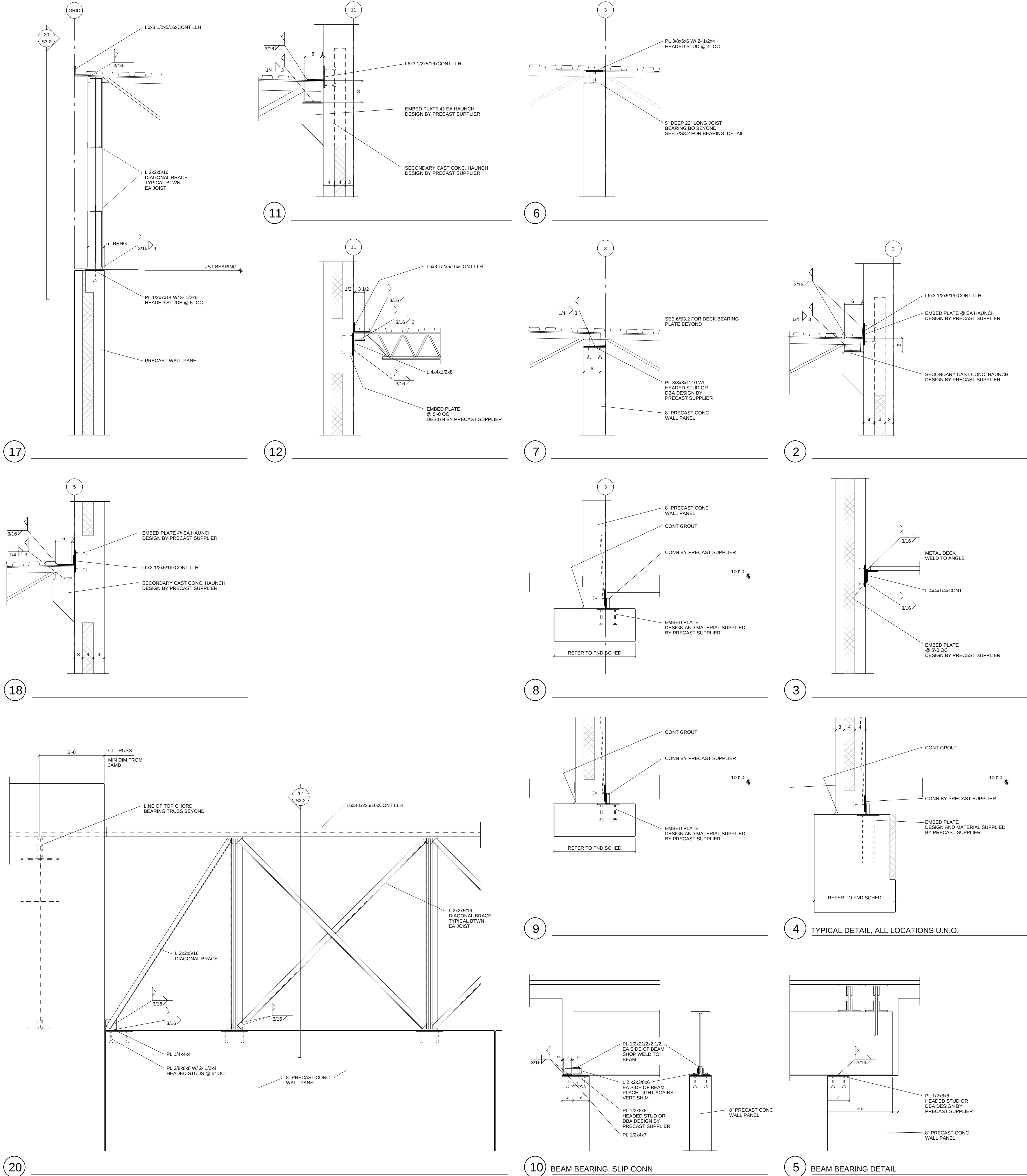
- NOTES:
1. REFER TO FND PLAN AND FND SCHED FOR FND SIZES AND REINFORCING
 2. ALL FITS SHALL BE CENTERED UNDER WALLS AND COLUMNS, TYP. U.N.O.
 3. REFER TO COLUMN SCHEDULE FOR COLUMN & BASE PL INFORMATION
 4. GROUT ALL CMU SOLID THAT IS BELOW GRADE OR IN CONTACT W/ SOIL

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MARK	DATE	DESCRIPTION

CENTENNIAL ADDITION AND RENOVATION

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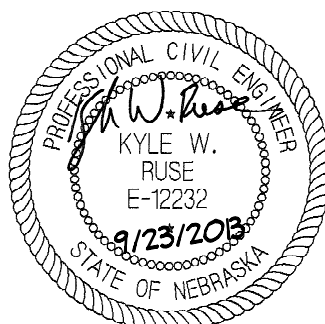
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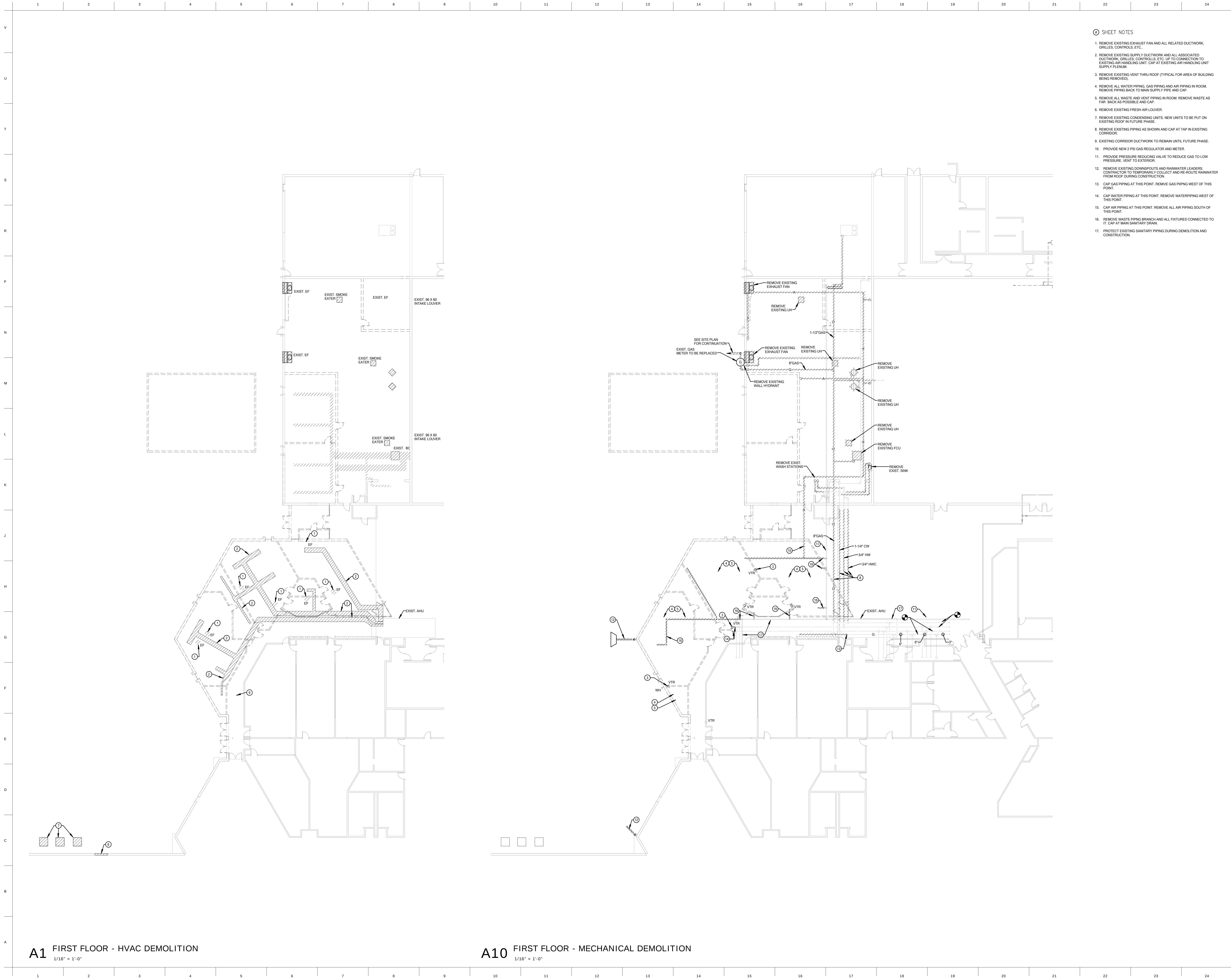
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BP-3R
S3.2



- SHEET NOTES**
1. REMOVE EXISTING EXHAUST FAN AND ALL RELATED DUCTWORK, GRILLES, CONTROLS, ETC.
 2. REMOVE EXISTING SUPPLY DUCTWORK AND ALL ASSOCIATED DUCTWORK, GRILLES, CONTROLS, ETC. UP TO CONNECTION TO EXISTING AIR HANDLING UNIT. CAP AT EXISTING AIR HANDLING UNIT SUPPLY PLenum.
 3. REMOVE EXISTING VENT THRU ROOF (TYPICAL FOR AREA OF BUILDING BEING REMOVED).
 4. REMOVE ALL WATER PIPING, GAS PIPING AND AIR PIPING IN ROOM. REMOVE PIPING BACK TO MAIN SUPPLY PIPE AND CAP.
 5. REMOVE ALL WASTE AND VENT PIPING IN ROOM. REMOVE WASTE AS FAR BACK AS POSSIBLE AND CAP.
 6. REMOVE EXISTING FRESH AIR LOUVER.
 7. REMOVE EXISTING CONDENSING UNITS. NEW UNITS TO BE PUT ON EXISTING ROOF IN FUTURE PHASE.
 8. REMOVE EXISTING PIPING AS SHOWN AND CAP AT TAP IN EXISTING CORRIDOR.
 9. EXISTING CORRIDOR DUCTWORK TO REMAIN UNTIL FUTURE PHASE.
 10. PROVIDE NEW 2 PSI GAS REGULATOR AND METER.
 11. PROVIDE PRESSURE REDUCING VALVE TO REDUCE GAS TO LOW PRESSURE. VENT TO EXTERIOR.
 12. REMOVE EXISTING DOWNSPOUTS AND RAINWATER LEADERS. CONTRACTOR TO TEMPORARILY COLLECT AND RE-ROUTE RAINWATER FROM ROOF DURING CONSTRUCTION.
 13. CAP GAS PIPING AT THIS POINT. REMOVE GAS PIPING WEST OF THIS POINT.
 14. CAP WATER PIPING AT THIS POINT. REMOVE WATERPIPING WEST OF THIS POINT.
 15. CAP AIR PIPING AT THIS POINT. REMOVE ALL AIR PIPING SOUTH OF THIS POINT.
 16. REMOVE WASTE PIPING BRANCH AND ALL FIXTURES CONNECTED TO IT. CAP AT MAIN SANITARY DRAIN.
 17. PROTECT EXISTING SANITARY PIPING DURING DEMOLITION AND CONSTRUCTION.



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CENTENNIAL PUBLIC
SCHOOL ADDITION AND
RENOVATION

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FIRST FLOOR
MECHANICAL -
DEMOLITION

NORTH
BP-3R
M1.1



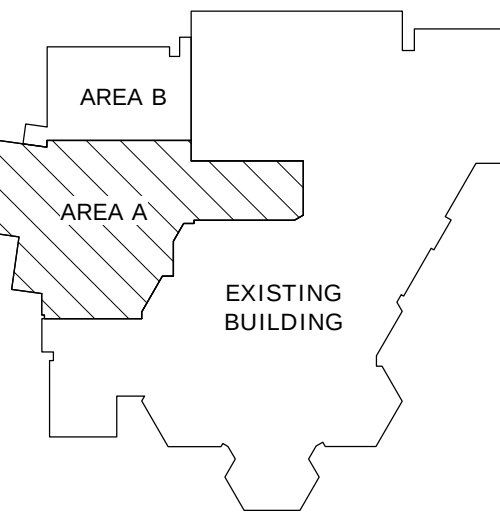
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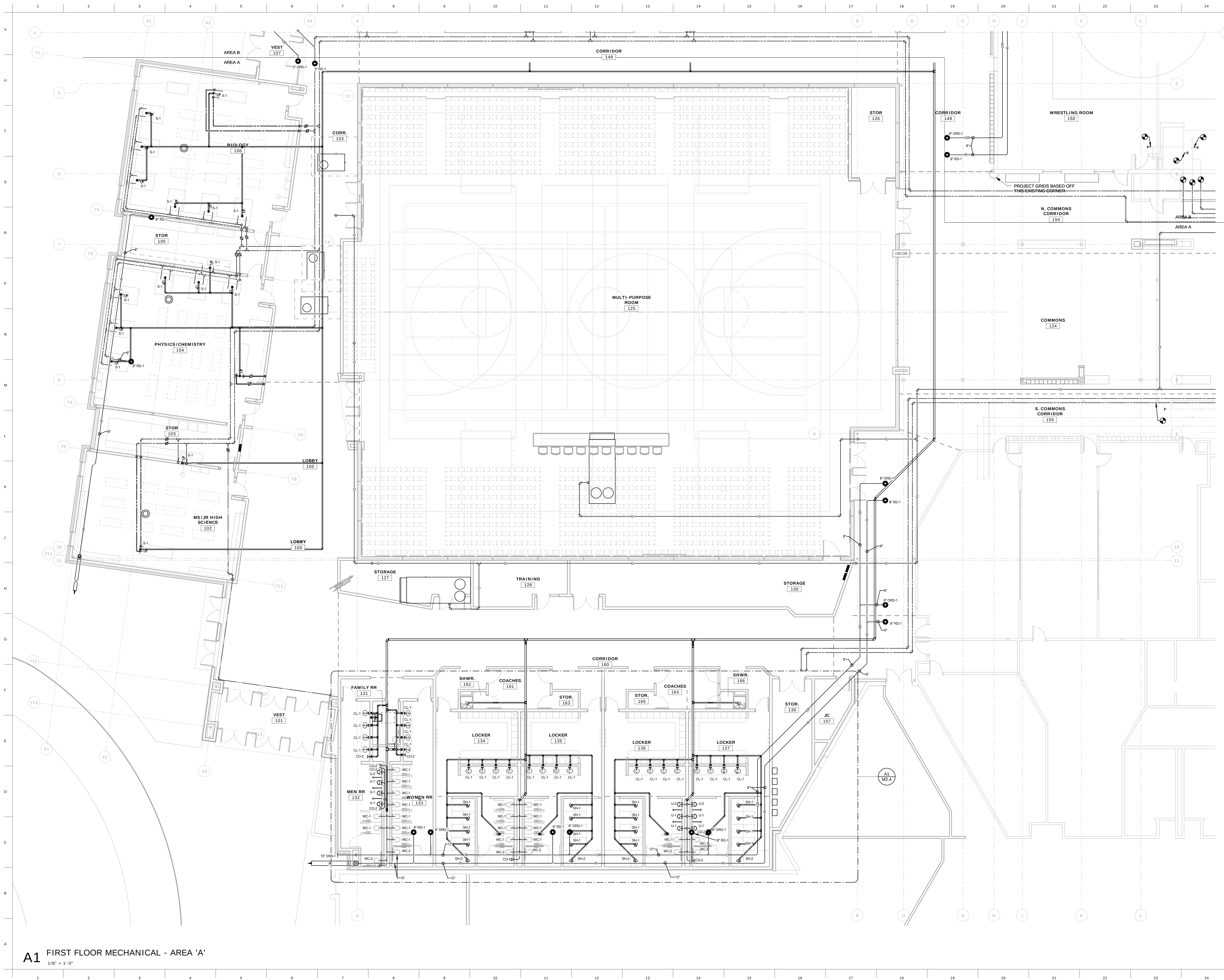
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FIRST FLOOR
MECHANICAL - AREA A

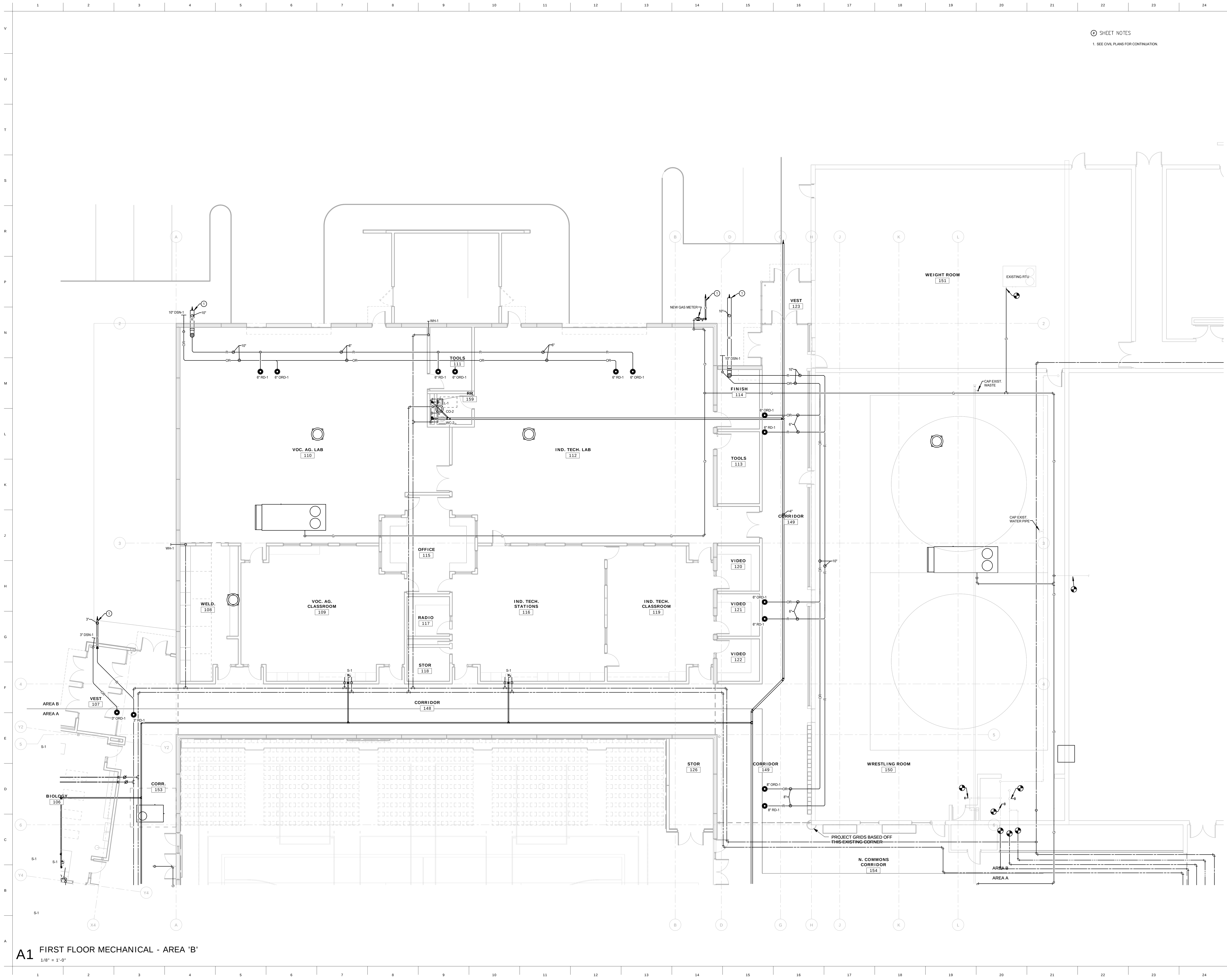


BP-3R

M2.1



A1 FIRST FLOOR MECHANICAL - AREA 'A'
1/8" = 1'-0"



SHEET NOTES
1. SEE CIVIL PLANS FOR CONTINUATION.



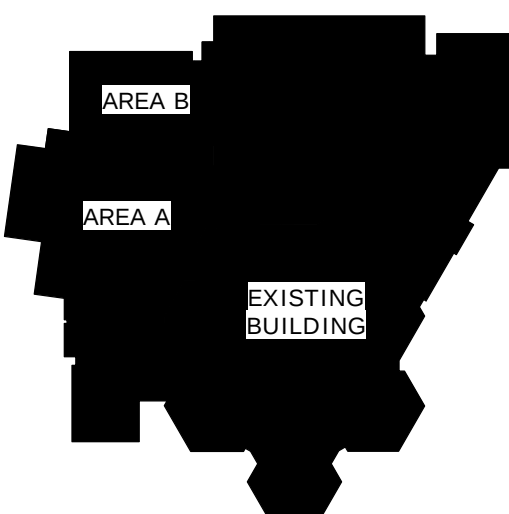
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FIRST FLOOR
MECHANICAL - AREA B

NORTH
BP-3R
M2.2



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MECHANICAL / HVAC
ENLARGED PLANS

NORTH



BP-3R

M2.4

A1 LOCKER ROOM/RESTROOM ENLARGED PLAN - MECHANICAL
1/4" = 1'-0"



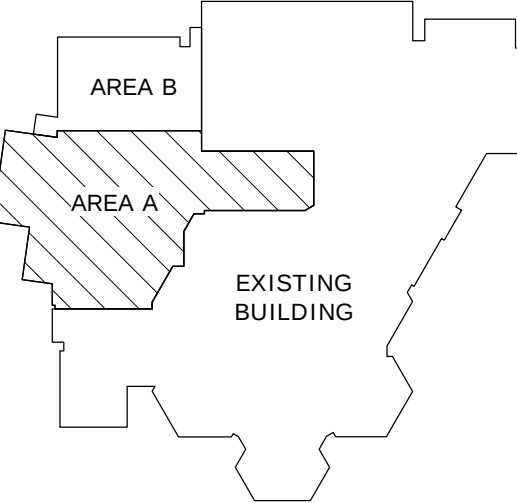
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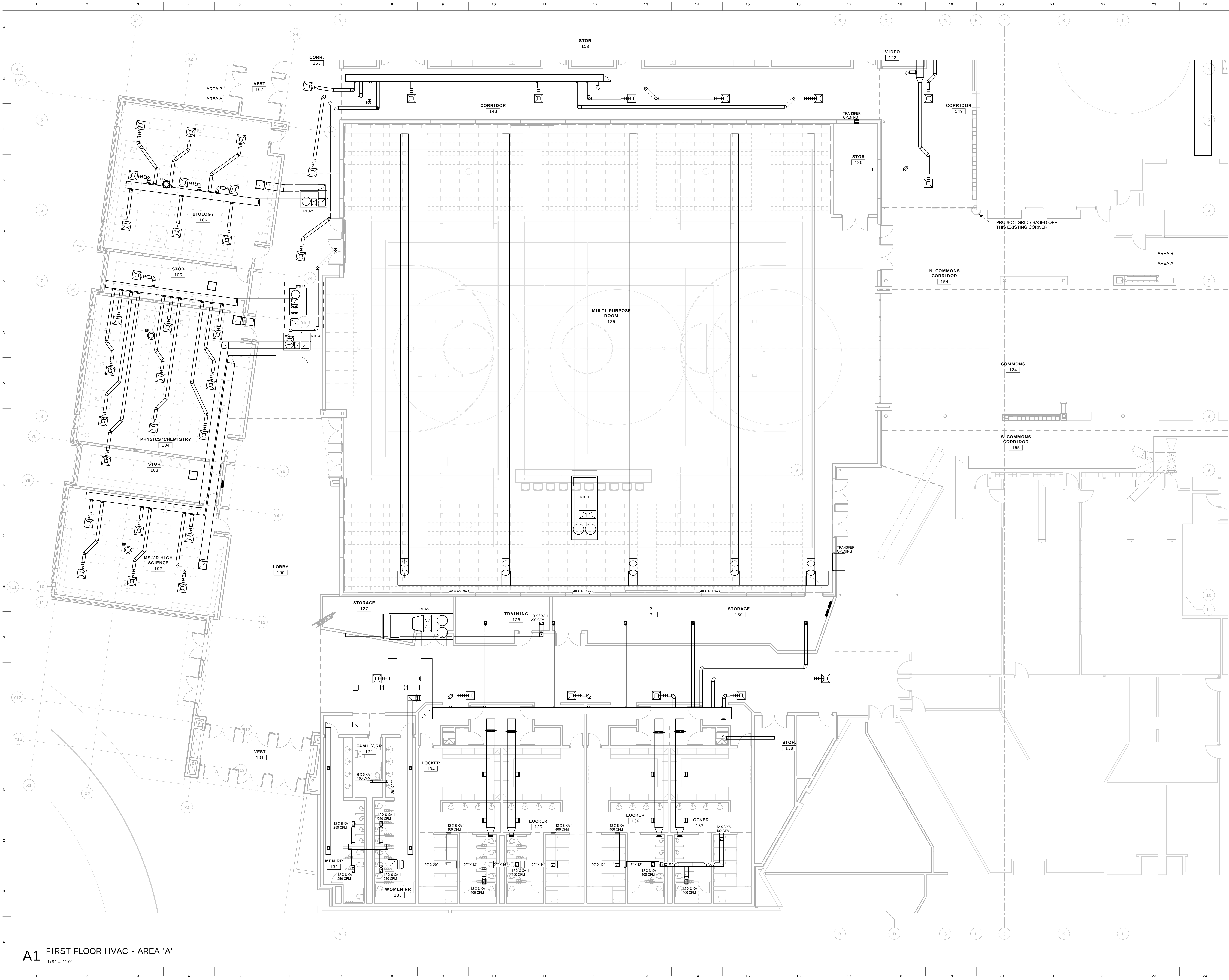
FIRST FLOOR HVAC AREA
A

NORTH

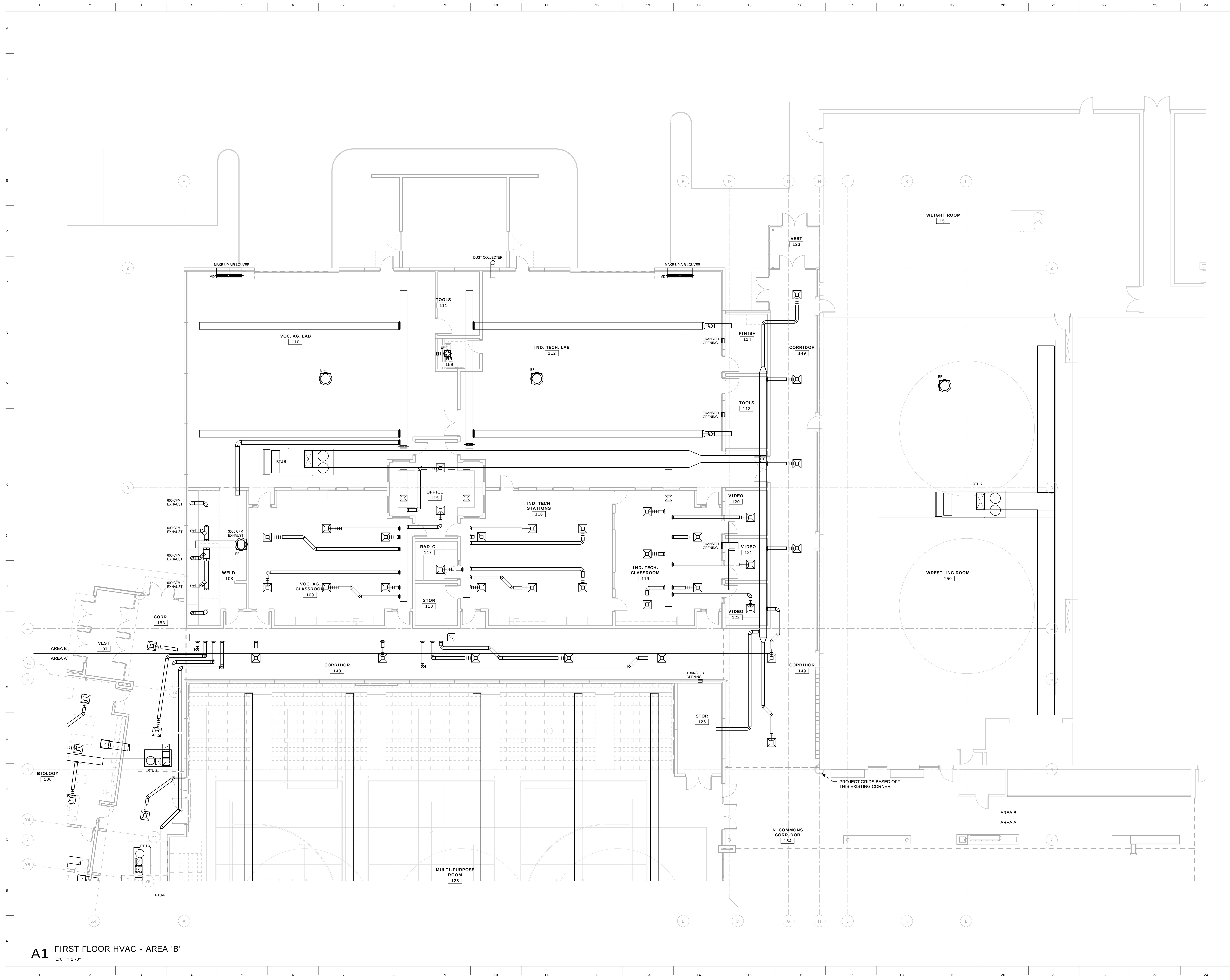


BP-3R

M3.1



A1 FIRST FLOOR HVAC - AREA 'A'
1/8" = 1'-0"



A1 FIRST FLOOR HVAC - AREA 'B'

1/8" = 1'-0"



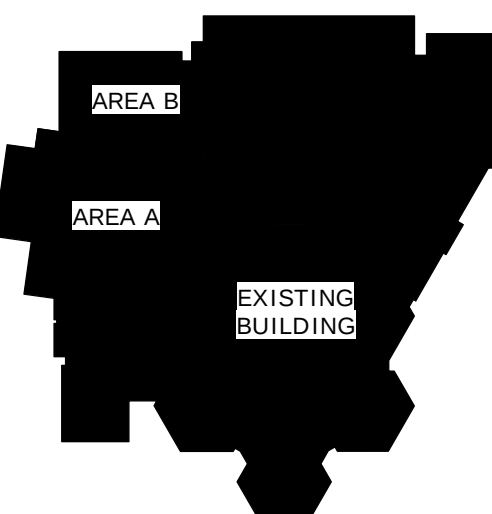
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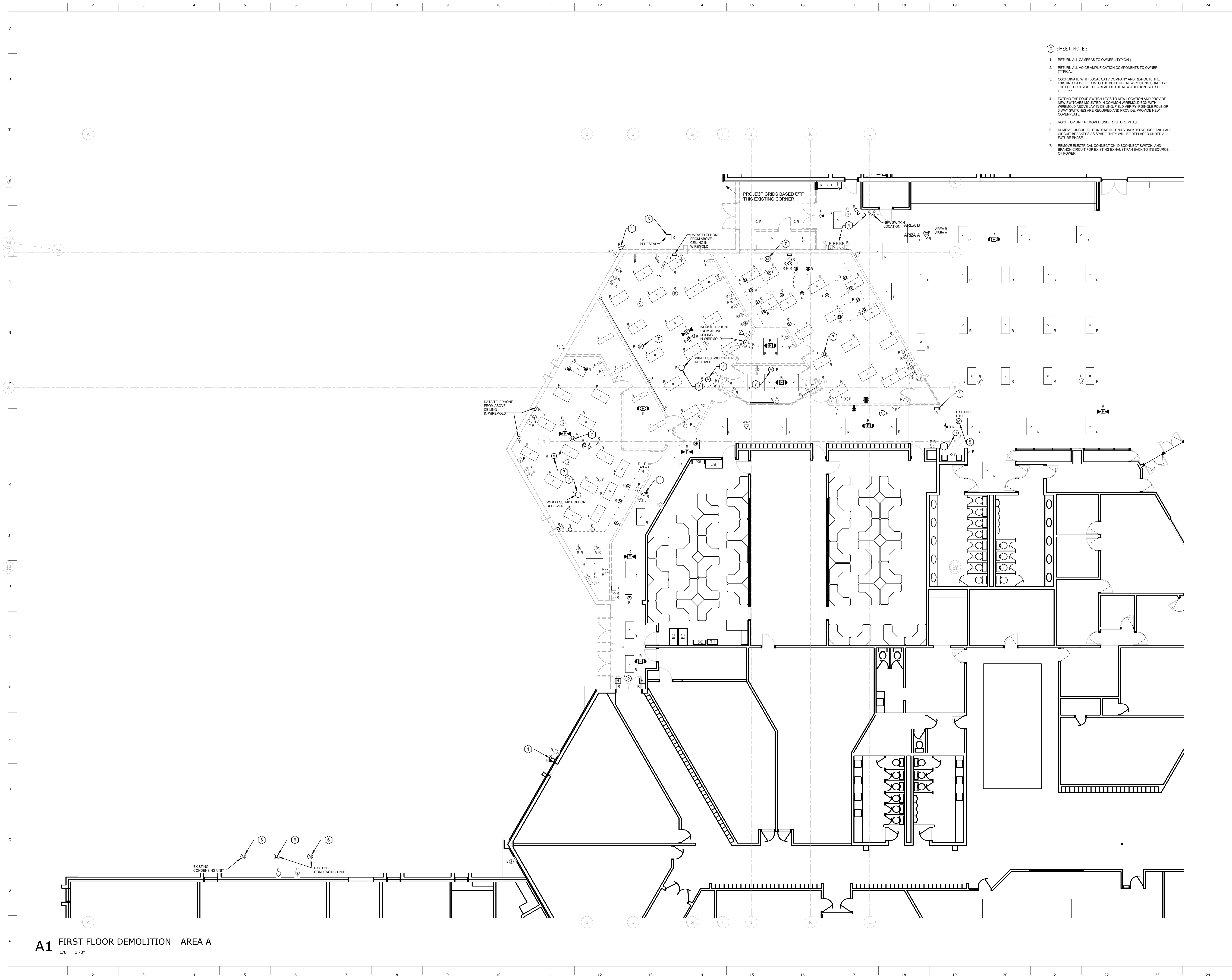
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FIRST FLOOR HVAC -
AREA B

BP-3R
M3.2





- SHEET NOTES**
1. RETURN ALL CAMERAS TO OWNER. (TYPICAL).
 2. RETURN ALL VOICE AMPLIFICATION COMPONENTS TO OWNER. (TYPICAL).
 3. COORDINATE WITH LOCAL CATV COMPANY AND RE-ROUTE THE EXISTING CATV FEED INTO THE BUILDING. NEW ROUTING SHALL TAKE THE FEED OUTSIDE THE AREAS OF THE NEW ADDITION. SEE SHEET E-17.
 4. EXTEND THE FOUR SWITCH LEGS TO NEW LOCATION AND PROVIDE NEW SWITCHES MOUNTED IN COMMON WIREMOLD BOX WITH WIREMOLD ABOVE LAY-IN CEILING. FIELD VERIFY IF SINGLE POLE OR 3-WAY SWITCHES ARE REQUIRED AND PROVIDE. PROVIDE NEW COVERPLATE.
 5. ROOF TOP UNIT REMOVED UNDER FUTURE PHASE.
 6. REMOVE CIRCUIT TO CONDENSING UNITS BACK TO SOURCE AND LABEL CIRCUIT BREAKERS AS SPARE. THEY WILL BE REPLACED UNDER A FUTURE PHASE.
 7. REMOVE ELECTRICAL CONNECTION, DISCONNECT SWITCH, AND BRANCH CIRCUIT FOR EXISTING EXHAUST FAN BACK TO ITS SOURCE OF POWER.



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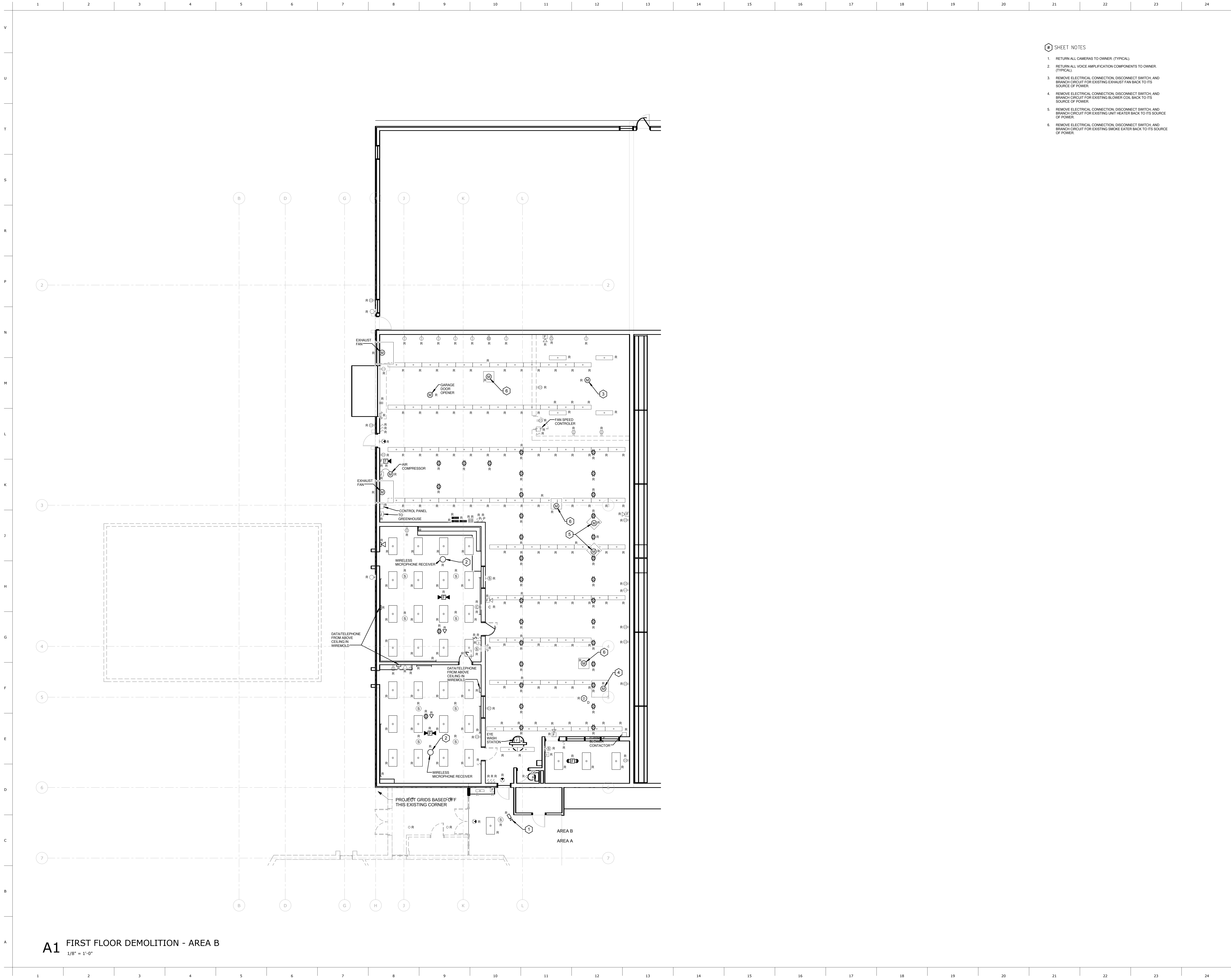
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FIRST FLOOR
DEMOLITION - AREA A

NORTH
BP-3R
E1.1



- SHEET NOTES**
1. RETURN ALL CAMERAS TO OWNER. (TYPICAL).
 2. RETURN ALL VOICE AMPLIFICATION COMPONENTS TO OWNER. (TYPICAL).
 3. REMOVE ELECTRICAL CONNECTION, DISCONNECT SWITCH, AND BRANCH CIRCUIT FOR EXISTING EXHAUST FAN BACK TO ITS SOURCE OF POWER.
 4. REMOVE ELECTRICAL CONNECTION, DISCONNECT SWITCH, AND BRANCH CIRCUIT FOR EXISTING BLOWER COIL BACK TO ITS SOURCE OF POWER.
 5. REMOVE ELECTRICAL CONNECTION, DISCONNECT SWITCH, AND BRANCH CIRCUIT FOR EXISTING UNIT HEATER BACK TO ITS SOURCE OF POWER.
 6. REMOVE ELECTRICAL CONNECTION, DISCONNECT SWITCH, AND BRANCH CIRCUIT FOR EXISTING SMOKE EATER BACK TO ITS SOURCE OF POWER.



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1600 S 70TH STREET, STE 103
LINCOLN NE 68506
V 402 484 7342
F 402 484 7344
regaengineering.com

REVISIONS SCHEDULE		
MARK	DATE	DESCRIPTION

CENTENNIAL PUBLIC
SCHOOL ADDITION AND
RENOVATION

PROJECT: L13030 DATE: SEPT 23, 2013
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REFERENCE ONLY

FIRST FLOOR
DEMOLITION - AREA B



BP-3R
E1.2



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LINCOLN NE 68508
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F 402 475 0226
bvh.com

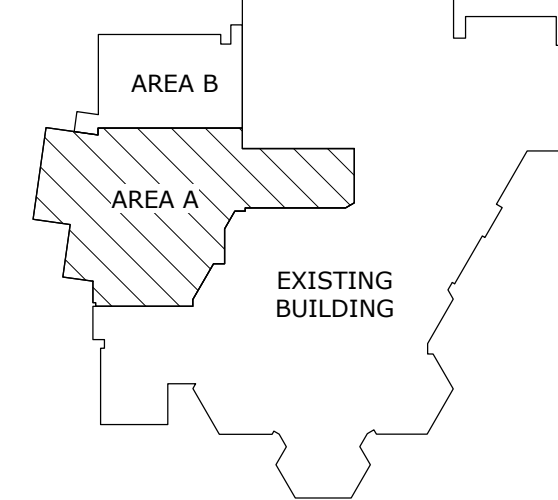
STRUCTURAL ENGINEER
VOSS & ASSOCIATES, INC.
201 N 7TH STREET, STE 200
LINCOLN NE 68504
V 402 476 6365
F 402 476 6414
voss-associates.com

MECHANICAL/ELECTRICAL ENGINEER
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LINCOLN NE 68508
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ETI Project #2013-077
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regaengineering.com

REVISIONS SCHEDULE

MARK	DATE	DESCRIPTION
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CENTENNIAL PUBLIC SCHOOL ADDITION AND RENOVATION

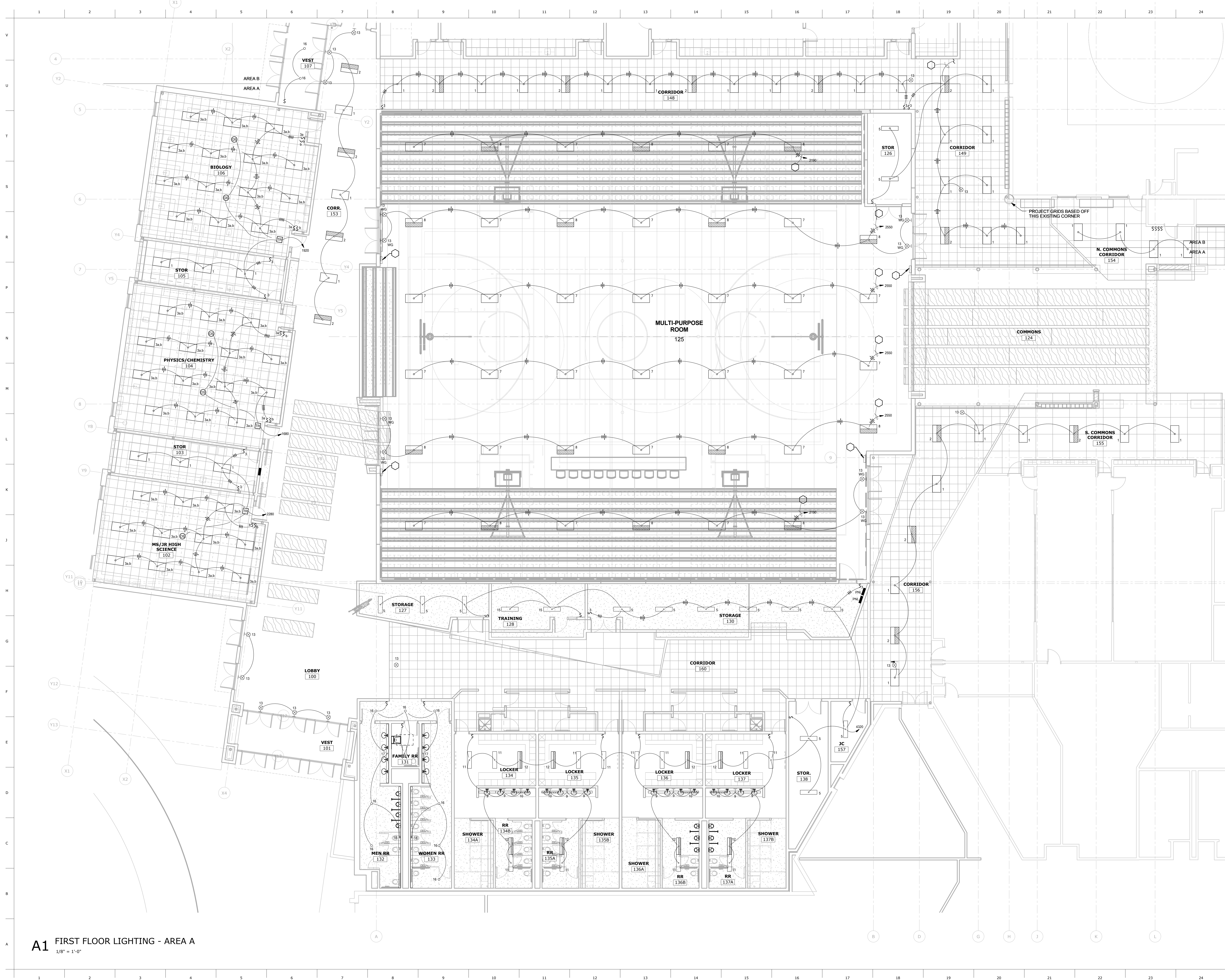
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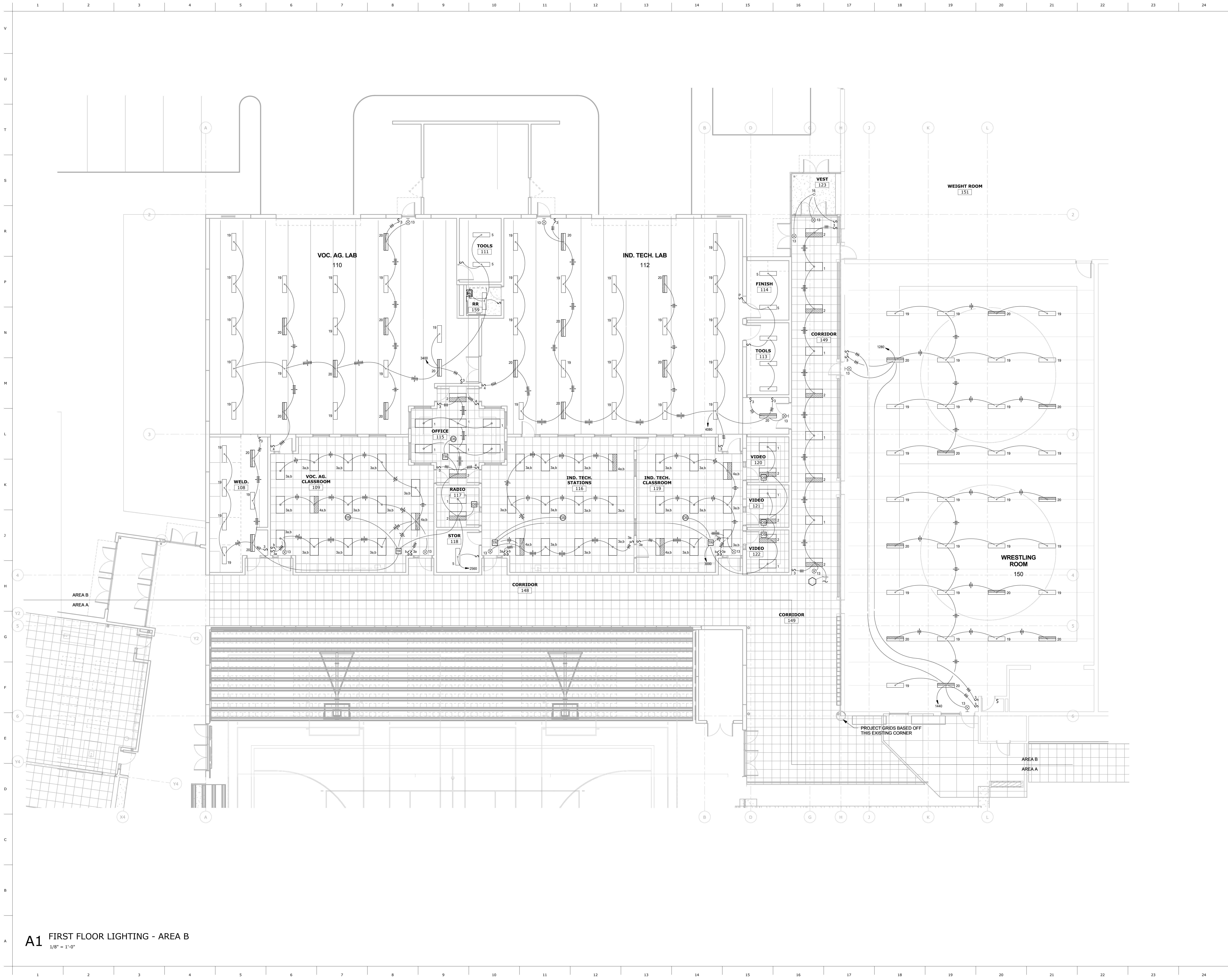
FIRST FLOOR LIGHTING -
AREA A



BP-3R
E2.1



A1 FIRST FLOOR LIGHTING - AREA A
1/8" = 1'-0"



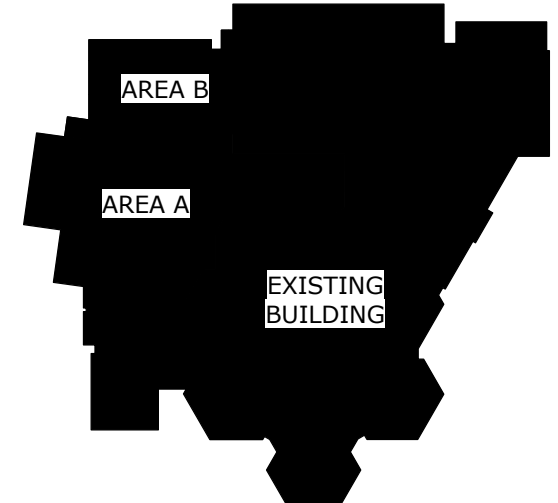
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bvha.com

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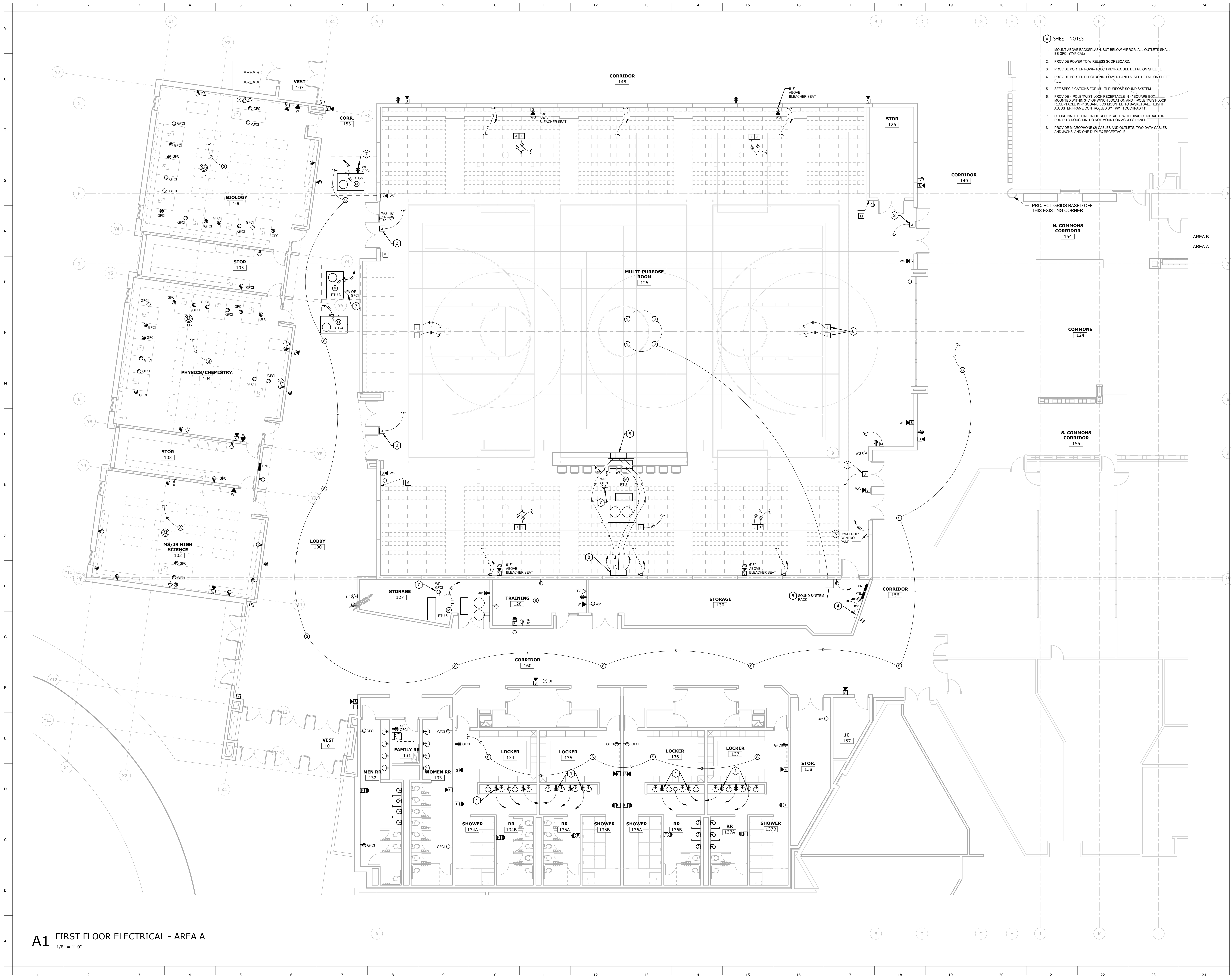
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FIRST FLOOR LIGHTING -
AREA B

NORTH
BP-3R
E2.2



SHEET NOTES

1. MOUNT ABOVE BACKPLASH, BUT BELOW MIRROR. ALL OUTLETS SHALL BE GFCI. (TYPICAL)
2. PROVIDE POWER TO WIRELESS SCOREBOARD.
3. PROVIDE PORTER POWER-TOUCH KEYPAD. SEE DETAIL ON SHEET E...
4. PROVIDE PORTER ELECTRONIC POWER PANELS. SEE DETAIL ON SHEET E...
5. SEE SPECIFICATIONS FOR MULTI-PURPOSE SOUND SYSTEM.
6. PROVIDE 4-POLE TWIST-LOCK RECEPTACLE IN 4" SQUARE BOX, MOUNTED WITHIN 3'-0" OF WINCH LOCATION AND 4-POLE TWIST-LOCK RECEPTACLE IN 4" SQUARE BOX MOUNTED TO BASEBALL HITCH ADJUSTER FRAME CONTROLLED BY TP#1 (TOUCHPAD #1).
7. COORDINATE LOCATION OF RECEPTACLE WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN. DO NOT MOUNT ON ACCESS PANEL.
8. PROVIDE MICROPHONE (2) CABLES AND OUTLETS, TWO DATA CABLES AND JACKS, AND ONE DUPLEX RECEPTACLE.

PROJECT GRIDS BASED OFF THIS EXISTING CORNER

N. COMMONS CORRIDOR

154

COMMONS

124

S. COMMONS CORRIDOR

155



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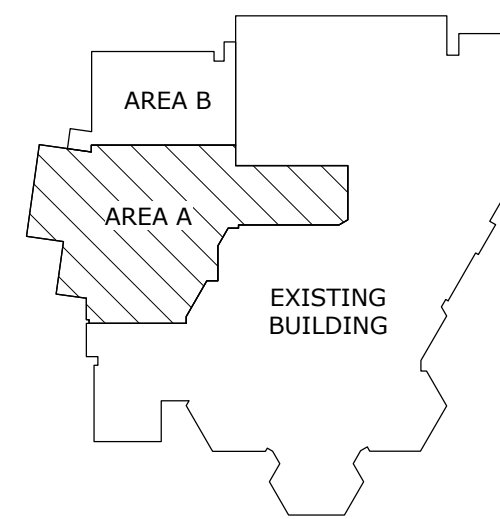
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FIRST FLOOR ELECTRICAL
- AREA A

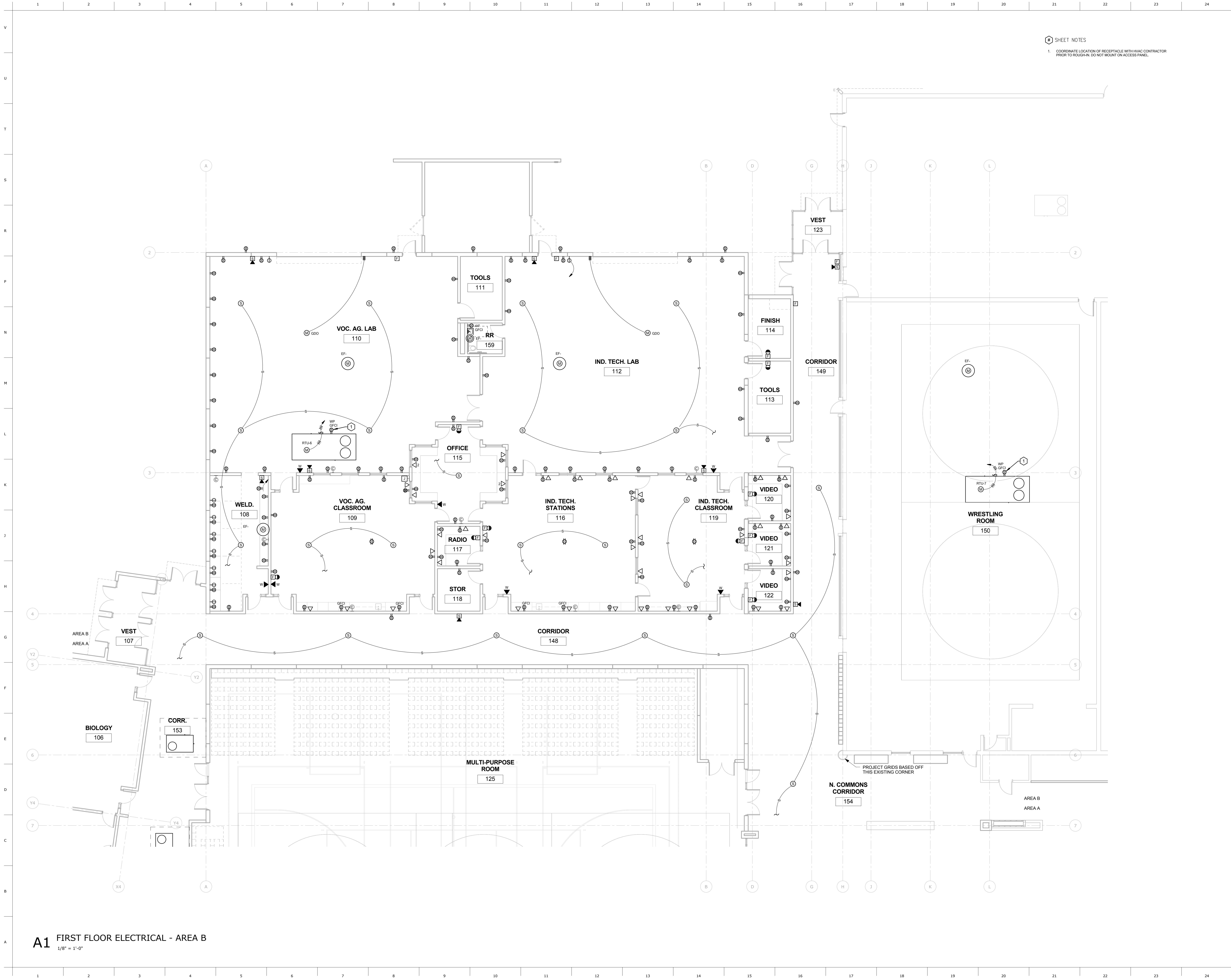
NORTH



BP-3R

E3.1

A1 FIRST FLOOR ELECTRICAL - AREA A
1/8" = 1'-0"



A1 FIRST FLOOR ELECTRICAL - AREA B
1/8" = 1'-0"



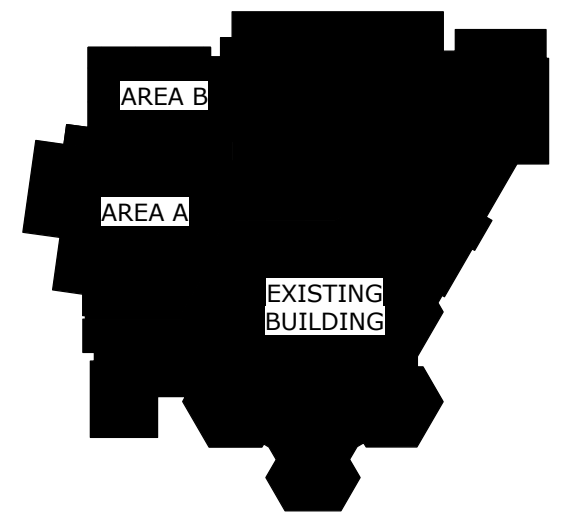
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FIRST FLOOR ELECTRICAL
- AREA B

NORTH
BP-3R
E3.2