

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ADDITION

1701 KAW VALLEY RD. WAMEGO, KANSAS
66547

CONSTRUCTION DOCUMENTS

Owner:

USD 320 WAMEGO
510 EAST HWY. 24
WAMEGO, KS 66547

ARCHITECT:

BBN ARCHITECTS, INC.
228 POYNTZ AVE.
MANHATTAN, KS 66502
TELEPHONE: (785) 776-4912

MEP ENGINEER:

ORAZEM & SCALORA ENGINEERING, P.A.
2312 ANDERSON AVE.
MANHATTAN, KS 66502

STRUCTURAL ENGINEER:

DUDLEY WILLIAMS AND ASSOCIATES, P.A.
230 S LAURA, SUITE #200
WICHITA, KS 67211

CIVIL ENGINEER:

SMH CONSULTANTS
2017 VANESTA PL.
MANHATTAN, KS 66503

PROJECT DESCRIPTION:

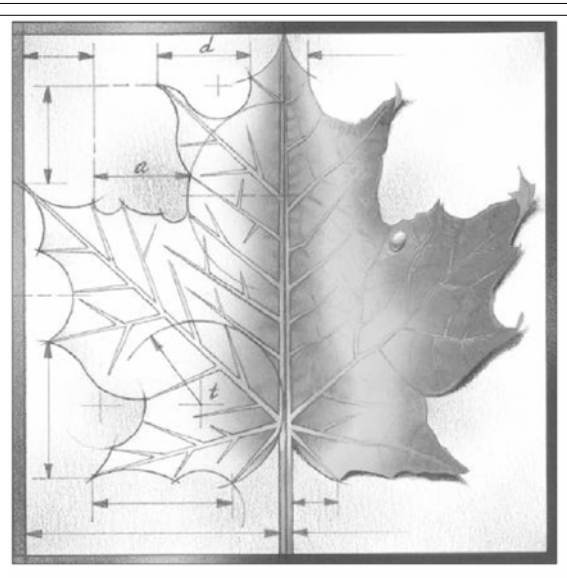
ADDITION OF 4 SCIENCE CLASSROOMS TO AN
EXISTING MIDDLE SCHOOL.

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GENERAL NOTES

1. GENERAL NOTES APPLY TO ALL ARCHITECTURAL DRAWINGS & DETAILS.
2. ALL WORK SHALL CONFORM WITH APPLICABLE BUILDING CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS.
3. DESIGN DOCUMENTS HAVE BEEN PREPARED DESCRIBING GENERAL REQUIREMENTS FOR WORK AT THE EXISTING SITE. IDENTIFICATION OF EXISTING CONDITIONS, SHOWN ON THE PLANS, IS BASED ON A GENERAL REVIEW OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
4. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
5. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.
6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS TO THE PROJECT SITE.
7. WHERE DISCREPANCIES EXIST IN THE DOCUMENTS THE MOST STRINGENT SHALL APPLY.
8. PATCH, FINISH AND REPAINT ANY WALLS, FLOOR AND CEILINGS DAMAGED OR REMOVED WHILE INSTALLATION OF NEW WATER PIPING.
9. REMOVE AND DISPOSE OF ALL EXISTING FIXTURES, CASEWORK, PARTITIONS, CEILINGS, INSULATION, AND ALL OTHER FINISHES REQUIRED PRIOR TO RENOVATION WORK.



BBN

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228 POYNTZ AVENUE
MANHATTAN, KANSAS 66502
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Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect.



Project Number: **16036**

Date: **11/28/17**

Project Name:
**USD 320 WAMEGO
MIDDLE SCHOOL
SCIENCE ADDITION**

Project Address:
**1701 KAW VALLEY RD.
WAMEGO, KANSAS 66547**

Sheet Title:

TITLE SHEET

Sheet:

G000

OF

GENERAL INFORMATION

LOCATION: Wamego Middle School
1701 Kaw Valley Rd
Wamego, KS 66547

AGENCY INFORMATION: Unified School District 320
510 E. Highway 24
Wamego, KS 66547

RESPONDING FIRE DEPARTMENT: Wamego City Fire Department
504 Plum St.
Wamego, KS 66547

REASON FOR SUBMITTAL: New Construction / Addition / Renovation
AUTHORITIES HAVING JURISDICTION: City of Wamego
430 Lincoln Ave., P.O. Box 86
Wamego, KS 66547

PROJECT DESCRIPTION

Expansion and Renovation of an existing middle school. The expansion extends the existing Building A and creates a new separate building (separated from the rest of the facility with a 2-hour fire wall) and includes new science laboratories and related utility rooms. The existing school and new building are not sprinklered.

APPLICABLE CODES

State Law establishes a minimum Life Safety and has a uniform effect throughout the state. KSA 31-133 and KSA 2003 Supp. 31-134 require that all occupied structures conform to the basic life safety requirements: A) Existing occupied buildings cannot have hazardous conditions which slow speedy exits. B) Alteration of existing buildings cannot make existing conditions worse or block exits. C) New construction and changes in use are subject to greater life safety requirements.

2012 - International Building Code (IBC)
2012 - International Mechanical Code (IMC)
2012 - International Plumbing Code (IPC)
2012 - International Fuel Gas Code (IFGC)
2012 - International Energy Conservation Code (IECC)
2012 - International Fire Code (IFC)

2010 - NFPA 10
2011 - NFPA 70 (National Electric Code)
2010 - NFPA 72
2010 - ADA Standards
Kansas Fire Prevention Code
Kansas State Boiler Code (K.S.A. 44-913 et seq)

OCCUPANCY/STRUCTURAL CLASSIFICATION

The new building (Building E) is classified as Group E (Educational) of Type II-B construction. Refer to the following sections for Occupancy and Construction Type of the existing buildings.

The new building (Building E) is considered a single laboratory space, consisting of laboratory rooms, an open collaborative laboratory area, and prep/storage rooms serving the laboratories. The laboratory space poses a greater level of risk and is separated from the rest of the facility by 2-hour fire walls, which exceeds the minimum 1-hour fire barrier requirement of IBC Table 509. The existing portion of the school is provided with its own dedicated exits and does not exit through the new laboratory space. Any new additions in the future will also be separated from the laboratory space with minimum 1-hour fire barriers and will not exit through the laboratory space. Three hazardous materials control areas are provided for the laboratory space; two chemical storage rooms are separated from the third control area (remainder of the building) with 1-hour fire barriers per IBC Table 414.2.2. The quantity of hazardous materials stored and used in the three control areas will be maintained below the maximum allowable quantity (MAQ) per IBC Table 307.1(1).

BUILDING HEIGHTS AND AREAS

Building	Occupancy / Construction Type*	Basic Allowable Area*	Frontage Increase*	Sprinkler Increase*	Allowable Area / Actual Area*	Allowable Height / Actual Height*	Allowable # Stories / Actual # Stories
Building A (Renovation)	Group E / Type II-B	14,500 SF	3,770 SF (51% of perimeter)	0 SF	18,270 SF / 12,500 SF	55' / 25'	2 / 1
Building B (Existing)	Group E / Type II-B	14,500 SF	1,595 SF (36% of perimeter)	0 SF	16,095 SF / 14,596 SF	55' / 25'	2 / 1
Building C-1 (Existing)	Group A-2 / Type II-A	15,500 SF	2,945 SF (44% of perimeter)	0 SF	18,445 SF / 16,679 SF	65' / 34'	3 / 2
Building C-2 (Existing)	Group A-2 / Type II-A	15,500 SF	0 SF (10% of perimeter)	0 SF	14,500 SF / 11,278 SF	65' / 34'	3 / 2
Building C-3 (Existing)	Group E / Type II-B	14,500 SF	5,365 SF (62% of perimeter)	0 SF	19,865 SF / 13,429 SF	55' / 26'	2 / 1
Building D (Existing)	Group E / Type II-B	14,500 SF	7,685 SF (78% of perimeter)	0 SF	22,185 SF / 17,938 SF	55' / 25'	2 / 1
Building E (New Addition)	Group E / Type II-B	14,500 SF	8,265 SF (82% of perimeter)	0 SF	22,765 SF / 10,075 SF	55' / 20'	2 / 1

*All buildings use non-separated occupancies approach (IBC 508.3)
*IBC Table 503
*IBC Section 506.2
*IBC Section 506.3
*No buildings provided with sprinkler system
*Ground floor areas
*Average roof height

GENERAL BUILDING LIMITATIONS

Construction Type: Buildings A,B,C-3,D,E Type II-B
Buildings C-1,C-2 Type II-A

STRUCTURAL FIRE RATING

	Buildings A,B,C-3,D,E	Buildings C-1,C-2
Structural frame including columns, girders & trusses:	0-hour	1-hour
Bearing exterior walls:	0-hour	1-hour
Bearing interior walls:	0-hour	1-hour
Nonbearing exterior walls & partitions:	0-hour	1-hour (0-hour ≥30' FSD*)
Nonbearing interior walls & partitions:	0-hour	0-hour
Floor construction including supporting beams & joists:	0-hour	1-hour
Roof construction including supporting beams & joists:	0-hour	1-hour

*FSD = Distance measured perpendicularly out from exterior wall to nearest property line, centerline of street, or imaginary line between two buildings on the same property.

EXIT WIDTH FACTORS:

Stairs: 0.3"/person (40 people/ft)
Doors, Level Surfaces, Ramps: 0.2"/person (60 people/ft)

ACTIVE LIFE SAFETY SYSTEMS

Fire Alarm:	Required/Provided:	Existing, Standby Generator
FACP:	Required/Provided:	Located in building main office
Remote Annunciator Panel:	Not Required/Not Provided	
Smoke Detection:	Required/Provided:	HVAC system per IMC
Pull Stations:	Required/Provided:	Throughout per NFPA 72
Backup Power:	Required/Provided:	Standby Generator
Exit Signs:	Required/Provided:	Standby Generator
Emergency Lights:	Not Required/Not Provided	
Suppression - Standpipes:	Not Required/Not Provided	
Suppression - Automatic:	Required/Provided:	Throughout per NFPA 10
Fire Extinguishers:		

WATER - FLOW TESTS:

Static: N/A Date: N/A
Residual: N/A Location: N/A
Flow: N/A

PASSIVE LIFE SAFETY SYSTEMS:

Building E (New Addition)
Corridors: No rating (IBC 1018.1, Ex. 1)
Occupancy Separations: None (all buildings use non-separated occupancies approach)
Fire Walls: 2-hour fire walls, 90-minute doors/openings*

All Other Buildings
Corridors: 1-hour fire partitions, 20-minute openings* (doors meet smoke and draft control, no louvers)
Enclosed Stairways: 1-hour fire barriers, 60-minute doors/openings*
Shafts: 1-hour fire barriers, 60-minute openings*
Occupancy Separations: None (all buildings use non-separated occupancies approach)
Fire Walls: 2-hour fire walls, 90-minute doors/openings*

*each opening limited to 156 square feet, aggregate openings limited to 25% of width of wall

IMPORTANT -ANY DEVIATIONS FROM THIS DOCUMENT MAY RESULT IN THE DELAY OF ISSUING THE CERTIFICATE OF OCCUPANCY. CHANGES AFFECTING THIS CODE FOOTPRINT SHALL BE DOCUMENTED BY THE CONSULTANT AND APPROVED BY THE AHJ.

OWNER DATE

KSFM DATE

OFPM CODE COMPLIANCE COORDINATOR DATE

SYMBOL	DESCRIPTION	PROTECTIVE ELEMENTS
	EXIT - EXTERIOR	
	EXIT - INTERIOR (Assembly occ. over 50 and exits from floors.)	
	FIRE EXTINGUISHER	
	FIRE EXTINGUISHER SPACING (Show radius)	Radius Shown on floor plan.
	PROTECTED EXIT PATH	1-hour Fire Partition wall construction. 20-minute rated door assembly. Fire/Smoke dampers (smoke damper not required for 26 Ga. steel duct system serving corridor only).
	1 HOUR EXIT PASSAGEWAY	1-hour Fire Barrier wall construction. No openings other than required exit doors. 1-hour door assembly.
	2 HOUR EXIT PASSAGEWAY	2-hour Fire Barrier wall construction. No openings other than required exit doors. 1 1/2-hour door assembly.
	1 HOUR EXIT ENCLOSURE (vertical) (stairwell - 3 stories or less)	1-hour Fire Barrier wall construction. No openings other than required exit doors. 1-hour door assembly.
	2 HOUR EXIT ENCLOSURE (vertical) (stairwell - 4 stories or more)	2-hour Fire Barrier wall construction. No openings other than required exit doors. 1 1/2-hour door assembly.
	1 HOUR FIRE BARRIER (Occupancy and Incidental Use)	1-hour Fire Barrier wall construction. 3/4-hour rated door assembly. Fire Dampers.
	2 HOUR FIRE BARRIER (Occupancy)	2-hour Fire Barrier wall construction. 1 1/2-hour rated door assembly. Fire Dampers.
	2 HOUR FIRE WALL (Building Separation)	2-hour Fire Wall construction. 1 1/2-hour rated door assembly. Fire/Smoke Dampers (fire wall serves as horizontal exit).
	1 HOUR SHAFT (3 stories or less)	1-hour Fire Barrier wall construction. 1-hour door assembly. Fire/Smoke Dampers.
	2 HOUR SHAFT (4 stories or more)	2-hour Fire Barrier wall construction. 1 1/2-hour door assembly. Fire/Smoke Dampers.
	SPRINKLERED INCIDENTAL USE AREAS	Wall construction to resist the passage of smoke from floor to floor to F.R. floor/ceiling assembly. Self- or automatic-closing doors with no air transfer grilles.
	198 / 39.6" / 68" ACCUMULATED EXIT WIDTH AT REQUIRED EXIT (clear width)	Occupants / Required width Provided width
	PUBLIC FIRE HYDRANT (show distance from building)	
	CONF. / A4 / 65 ROOM DESIGNATION	Room type / Occupancy type Maximum Allowable occupants
	80 / 40 ROOM DESIGNATION	
	NOT IN SCOPE OF WORK	
	SPRINKLER STANDPIPE	N/A
	FIRE DEPARTMENT CONNECTION	N/A
	FIRE ALARM CONTROL PANEL	
	FIRE DEPARTMENT KNOX BOX	
	EXIT SIGN	

Department of Administration
Office of Facilities & Property Management
Design, Construction & Compliance
700 Harrison, Suite 1200
Topeka, Kansas 66603
Phone 785-296-8899

USD 320 WAMEGO MIDDLE SCHOOL
SCIENCE ROOM ADDITION

1701 KAW VALLEY ROAD
WAMEGO, KS 66547

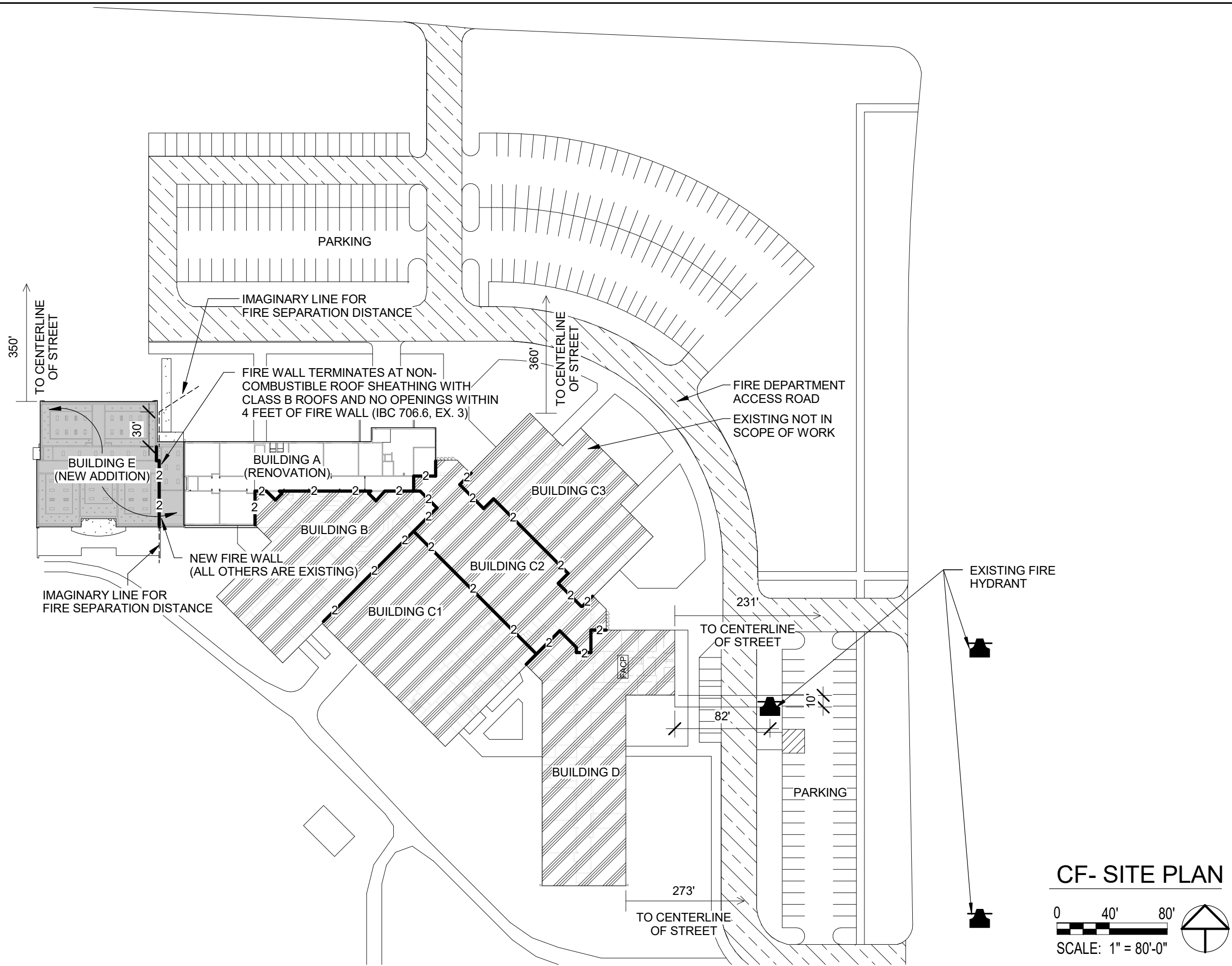
ISSUE DATE: 11/28/17 DRAWN BY: LBR

CODE FOOTPRINT
COVER SHEET

A-012552

CF-100

Original Contract
Documents



CF- SITE PLAN

0 40' 80'

SCALE: 1" = 80'-0"

Department of Administration
 Office of Facilities & Property Management
 Design, Construction & Compliance
 700 Harrison, Suite 1200
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 Phone 785-296-8899

USD 320 WAMEGO MIDDLE SCHOOL
SCIENCE ROOM ADDITION
 1701 KAW VALLEY ROAD
 WAMEGO, KS 66547

ISSUE DATE: 11/28/17 DRAWN BY: LBR

CODE FOOTPRINT
 SITE PLAN

A-012552

CF-101

Original Contract
 Documents

Room Types

CL = Classroom
 MR = Mechanical Room
 ST = Storage Room

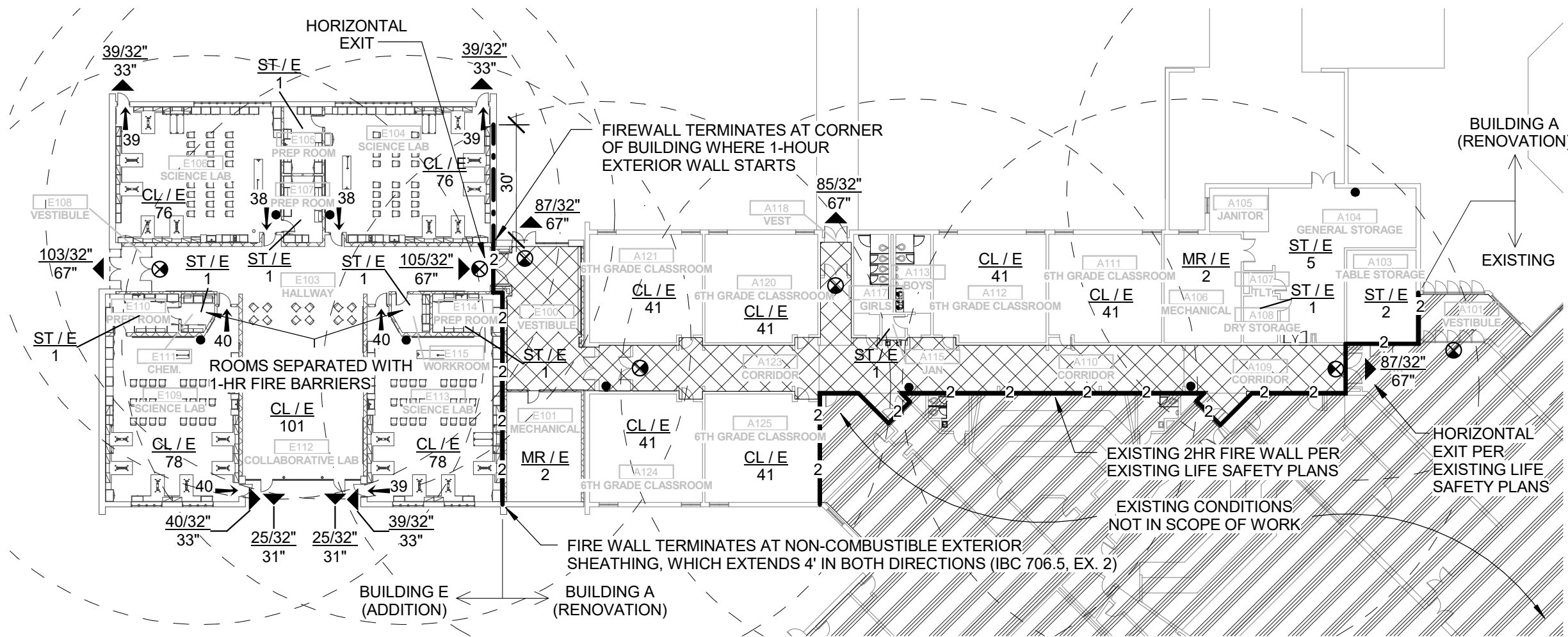
Egress Schedule

People Egressing	Inches/Person	Clear Width	Comments
BUILDING A			
87	0.2	5' - 7"	BUILDING A
87	0.2	5' - 7"	BUILDING A
85	0.2	5' - 7"	BUILDING A
259			
BUILDING E			
105	0.2	5' - 7"	BUILDING E
103	0.2	5' - 7"	BUILDING E
25	0.2	2' - 7"	BUILDING E
25	0.2	2' - 7"	BUILDING E
39	0.2	2' - 9"	BUILDING E
40	0.2	2' - 9"	BUILDING E
39	0.2	2' - 9"	BUILDING E
39	0.2	2' - 9"	BUILDING E
415			

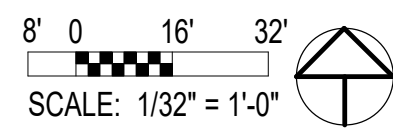
Occupant Summary

Function (per IBC Table 1004.1.2)	Area /Person	People
Building A		
Educational - Classroom	20 SF	246
storage and mechanical areas	300 SF	13
		259
Building E		
Assembly - Unconcentrated*	15 SF	101
Educational - Classroom	20 SF	308
storage and mechanical areas	300 SF	6
		415

* Group E occupancy per IBC 303.1.3



CF-FIRST FLOOR PLAN



Department of Administration
 Office of Facilities & Property Management
 Design, Construction & Compliance
 700 Harrison, Suite 1200
 Topeka, Kansas 66603
 Phone 785-296-8899

USD 320 WAMEGO MIDDLE SCHOOL
SCIENCE ROOM ADDITION
 1701 KAW VALLEY ROAD
 WAMEGO, KS 66547

ISSUE DATE: 11/28/17 DRAWN BY: LBR

CODE FOOTPRINT
 FIRST FLOOR PLAN

A-012552

CF-102

Original Contract
 Documents

LEGEND	
	WATER VALVE
	WATER SPIGOT
	ROOF DRAIN
	EXISTING LIGHT POLE
	EXISTING ELECTRICAL OUTLET
	EXISTING ELECTRIC METER
	DECIDUOUS TREE
	EVERGREEN TREE
	SHRUB
	METAL FENCE
	WATER LINE
	UNDERGROUND ELECTRIC
	EXISTING BUILDING
	PROPOSED ADDITION
	EXISTING SIDEWALK TO REMAIN
	EXISTING LANDING TO BE REMOVED
	PROPOSED SIDEWALK

NOTES:

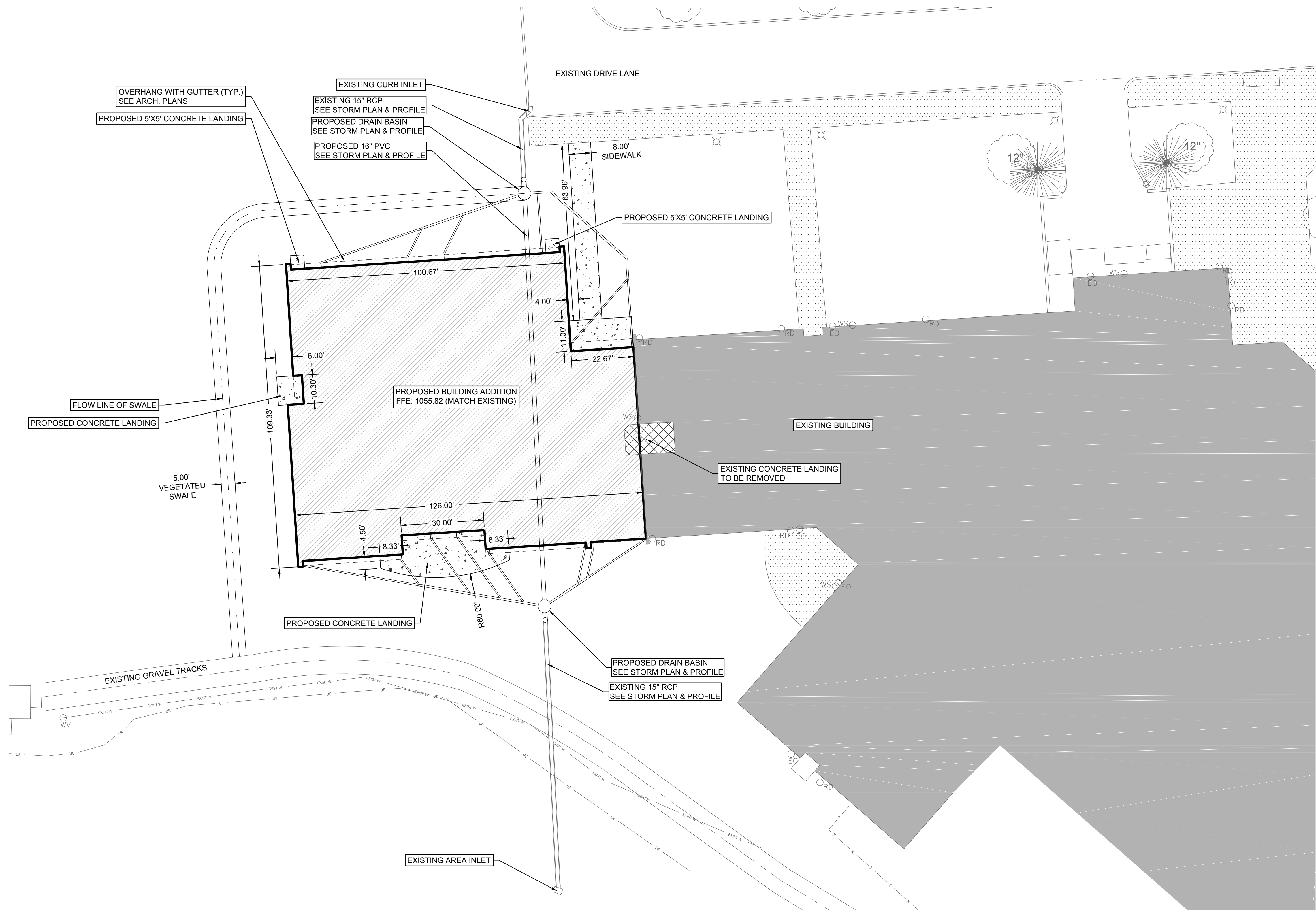
IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM APPROPRIATE REGULATORY AGENCIES (IF APPLICABLE) PRIOR TO COMMENCING THE WORK.

ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF THE PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

ALL DEMOLITION DEBRIS SHALL BE REMOVED FROM THE SITE. NO ON-SITE BURYING OF DEBRIS WILL BE ALLOWED.

ALL HAUL SITES SELECTED FOR COLLECTION OF DEBRIS SHALL BE APPROVED BY THE OWNER/ENGINEER.

ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE OWNER.



- ELECTRIC** CITY OF WAMEGO
430 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-9119
- TELEPHONE** WTC TELEPHONE SERVICE
ANDY BOECKMAN
1009 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-1000
- WATER & SEWER** CITY OF WAMEGO
430 LINCOLN AVENUE
WAMEGO, KS 66547
(785) 456-9119
- CABLE** COX COMMUNICATIONS
GLENN CALHOON
931 SW HENDERSON
TOPEKA, KS 66615
(785) 215-6705
- GAS** KANSAS GAS SERVICE
JULIE ROBLYER
225 SETH CHILD ROAD
MANHATTAN, KS 66502
(785) 587-2339

WARRANTY / DISCLAIMER:

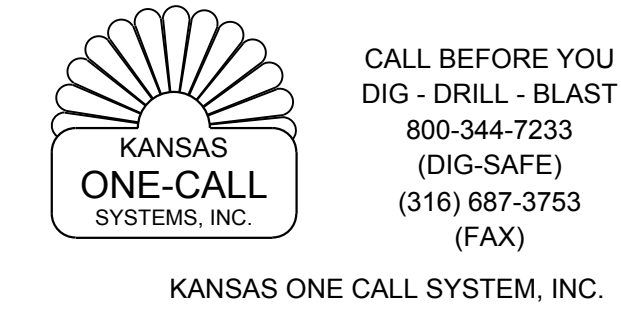
THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER SMH CONSULTANTS NOR ITS PERSONNEL CAN OR DO WARRANTY THESE DESIGNS OR PLANS AS CONSTRUCTED, EXCEPT IN THE SPECIFIC CASES WHERE SMH CONSULTANTS INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON THE SITE.

CAUTION - NOTICE TO CONTRACTOR:

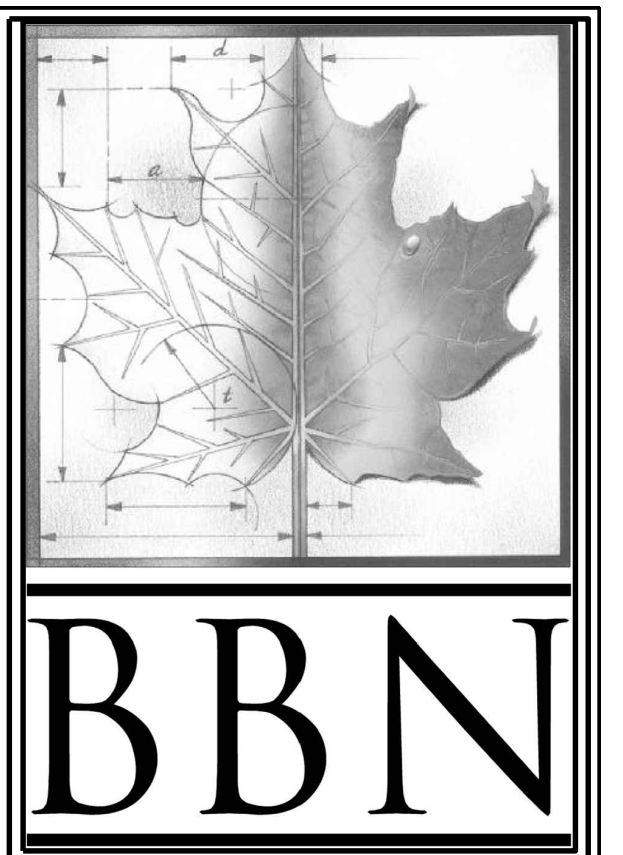
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST THE EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICTS PRIOR TO ANY CONSTRUCTION.

SAFETY NOTICE TO CONTRACTOR:

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.



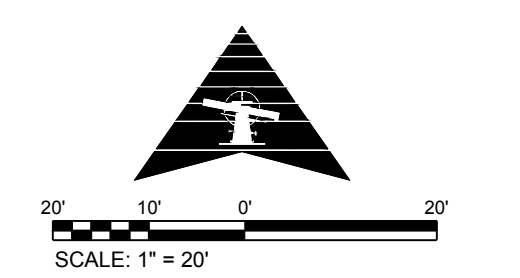
The utilities as shown on this drawing were developed from the information available. This is not implied nor intended to be the complete inventory of utilities in this area. It is the clients/contractors responsibility to verify the location of all utilities (whether shown or not) and protect said utilities from any damage. Confirmation Number 17102076.



BBN ARCHITECTS INC
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SMH CONSULTANTS
2017 Vanesta Place, Suite 110
Manhattan, KS 66503
P (785) 776-0841 • F (785) 776-9760



REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **11/13/2017**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
SITE PLAN

Sheet:
C1

OF:

LEGEND

- CNR BUILDING CORNER
- EOP EDGE OF PAVEMENT
- FG FINISHED GRADE
- FL FLOW LINE
- HP HIGH POINT
- RP RADIUS POINT
- TOP TOP OF PAVEMENT
- GENERAL POINT
- RADIUS POINT
- BUILDING POINT

HORIZONTAL & VERTICAL CONTROL
 HCP #9: N:1789641.725 E:326212.811 ELEV:1056.34
 HCP #10: N:1789001.727 E:326300.479 ELEV:1066.79
 HCP #11: N:1789024.110 E:325853.699 ELEV:1052.88

NOTE: HORIZONTAL & VERTICAL CONTROL POINTS ARE OUTSIDE THE AREA SHOWN ON THIS SHEET.

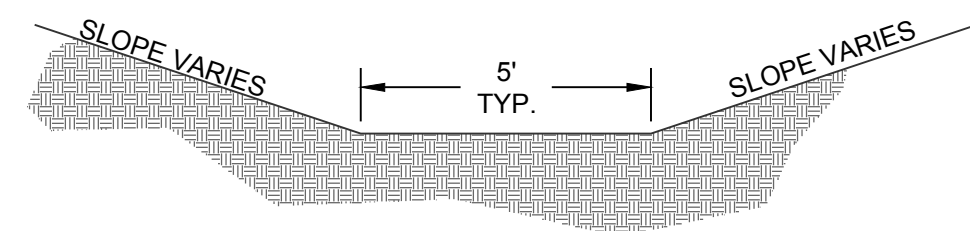
NOTES:

ALL SOIL BROUGHT TO THE SITE AND IN SITU SHALL BE COMPACTED BY ROLLING WITH A SHEEPSFOOT ROLLER OR BY MECHANICAL TAMPING. THE SHEEPSFOOT ROLLER, WHEN FULLY LOADED, SHALL HAVE A LOAD ON EACH TAMPER FOOT NO LESS THAN 200 POUNDS PER SQUARE INCH OF CROSS-SECTIONAL AREA. ENOUGH MOISTURE SHALL BE PRESENT IN THE SOIL TO OBTAIN A DENSITY EQUAL TO OR GREATER THAN 95% OF MAXIMUM DENSITY AS DETERMINED BY THE STANDARD PROCTOR DENSITY TEST BEFORE PLACING THE NEXT LIFT. EACH LIFT SHALL CONSIST OF 8-INCH LOOSE LIFTS OR LESS PRIOR TO COMPACTION. FILL MATERIAL SHALL BE APPROVED BY A LICENSED ENGINEER.

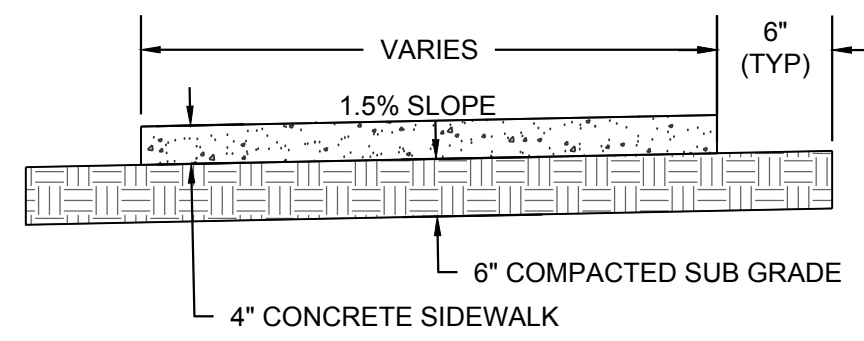
THE CROSS SLOPES OF ALL SIDEWALKS SHALL BE 1.5% OR LESS.

ALL GRADE AGAINST THE BUILDING SHALL BE 4" BELOW FINISH FLOOR UNLESS OTHERWISE SPECIFIED.

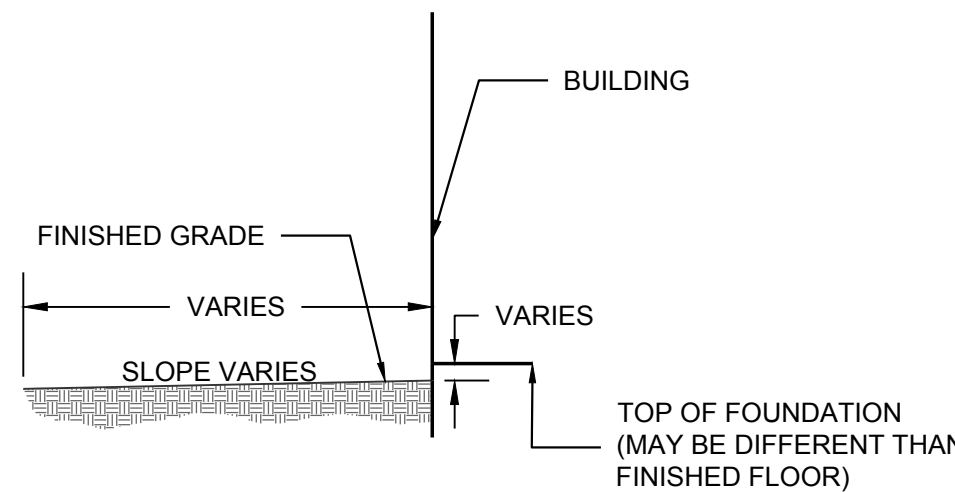
ALL STRIPPED TOPSOIL SHALL BE STOCKPILED FOR RE-USE.



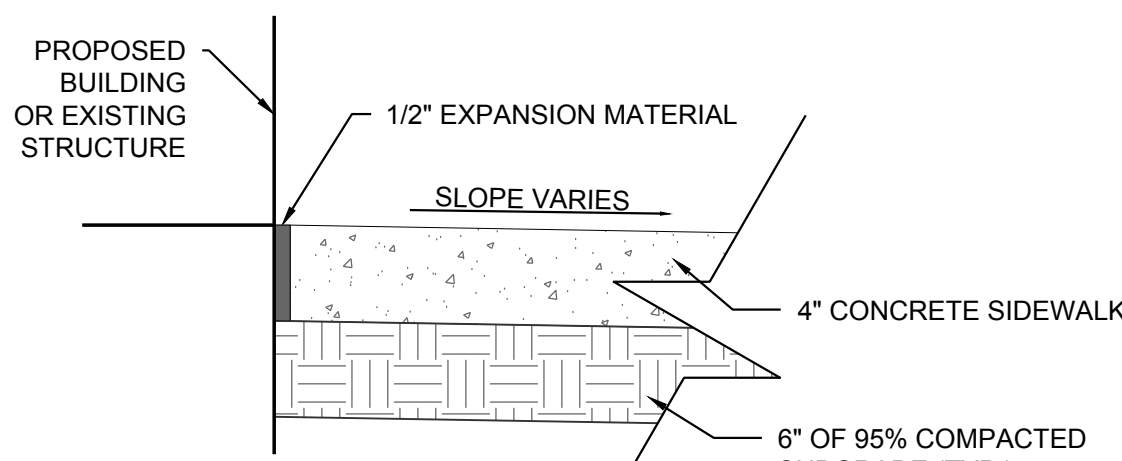
SWALE TYPICAL SECTION
NOT TO SCALE



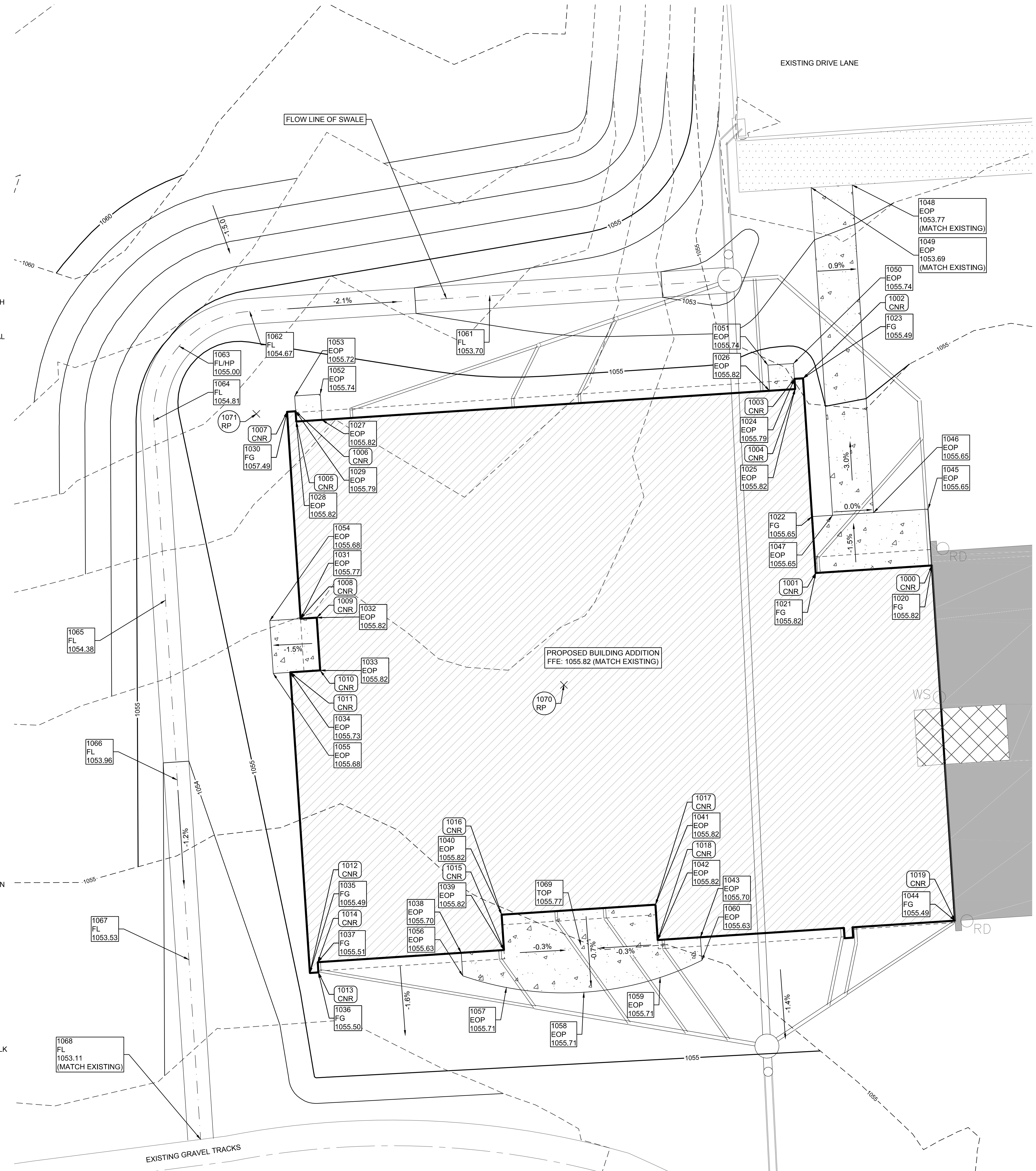
SIDEWALK DETAIL
NOT TO SCALE



GRADE ADJACENT TO BUILDING DETAIL
NOT TO SCALE



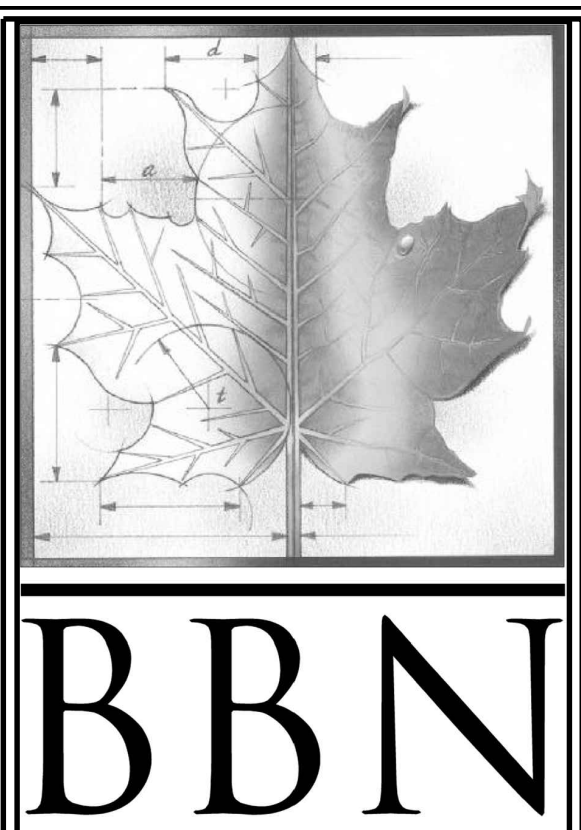
SIDEWALK ADJACENT TO BUILDING DETAIL
NOT TO SCALE



BUILDING CORNERS			
POINT #	NORTHING	EASTING	DESCRIPTION
1000	326013.07	1789103.64	CNR
1001	326011.60	1789081.02	CNR
1002	326049.52	1789078.55	CNR
1003	326049.41	1789076.89	CNR
1004	326047.42	1789077.02	CNR
1005	326041.10	1788979.89	CNR
1006	326043.09	1788979.76	CNR
1007	326042.99	1788978.10	CNR
1008	326002.71	1788980.72	CNR
1009	326002.91	1788983.87	CNR
1010	325992.63	1788984.54	CNR
1011	325992.25	1788978.72	CNR
1012	325933.71	1788982.53	CNR
1013	325933.82	1788984.20	CNR
1014	325935.81	1788884.07	CNR
1015	325938.17	1789020.32	CNR
1016	325945.06	1789019.87	CNR
1017	325947.01	1789049.81	CNR
1018	325940.12	1789050.26	CNR
1019	325943.89	1789108.14	CNR

COORDINATES				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1020	326013.07	1789103.64	1055.82	FG
1021	326011.60	1789081.02	1055.82	FG
1022	326022.58	1789080.30	1055.65	FG
1023	326049.52	1789078.55	1055.49	FG
1024	326049.41	1789076.89	1055.79	EOP
1025	326047.42	1789077.02	1055.82	EOP
1026	326047.09	1789072.03	1055.82	EOP
1027	326041.42	1788984.88	1055.82	EOP
1028	326041.10	1788979.89	1055.82	EOP
1029	326043.09	1788979.76	1055.79	EOP
1030	326042.99	1788978.10	1057.49	FG
1031	326002.71	1788980.72	1055.77	EOP
1032	326002.91	1788983.87	1055.82	EOP
1033	325992.63	1788984.54	1055.82	EOP
1034	325992.25	1788978.72	1055.73	EOP
1035	325933.71	1788982.53	1055.49	FG
1036	325933.82	1788984.20	1055.50	FG
1037	325935.81	1788884.07	1055.51	FG
1038	325937.63	1789012.01	1055.70	EOP
1039	325938.17	1789020.32	1055.82	EOP
1040	325945.06	1789019.87	1055.82	EOP
1041	325947.01	1789049.81	1055.82	EOP
1042	325940.12	1789050.26	1055.82	EOP
1043	325940.66	1789058.58	1055.70	EOP
1044	325943.89	1789108.14	1055.49	FG
1045	326024.05	1789102.92	1055.65	EOP
1046	326023.36	1789092.28	1055.65	EOP
1047	326022.84	1789084.29	1055.65	EOP
1048	326087.17	1789088.13	1053.77	EOP
1049	326086.66	1789080.14	1053.89	EOP
1050	326052.41	1789076.69	1055.74	EOP
1051	326052.08	1789071.70	1055.74	EOP
1052	326046.41	1788984.55	1055.74	EOP
1053	326046.05	1788979.57	1055.72	EOP
1054	326002.32	1788974.73	1055.68	EOP
1055	325992.04	1788975.40	1055.88	EOP
1056	325933.14	1789012.30	1055.63	EOP
1057	325930.87	1789020.80	1055.71	EOP
1058	325929.94	1789035.89	1055.71	EOP
1059	325932.82	1789050.74	1055.71	EOP
1060	325936.17	1789058.87	1055.63	EOP
1061	326065.59	1789017.55	1053.70	FL
1062	326062.55	1788970.81	1054.67	FL
1063	326055.79	1788957.08	1055.00	FL/HP
1064	326041.30	1788952.15	1054.81	FL
1065	326006.30	1788954.43	1054.38	FL
1066	325971.30	1788956.71	1053.96	FL
1067	325936.30	1788958.98	1053.53	FL
1068	325901.30	1788961.26	1053.11	FL
1069	325939.15	1789035.29	1055.77	TOP

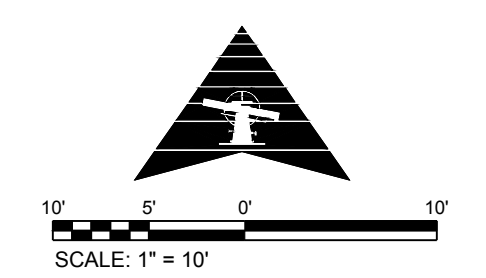
RADIUS POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
1070	325989.82	1789032.00	RP
1071	326042.60	1788972.11	RP



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REV	DESCRIPTION	DATE

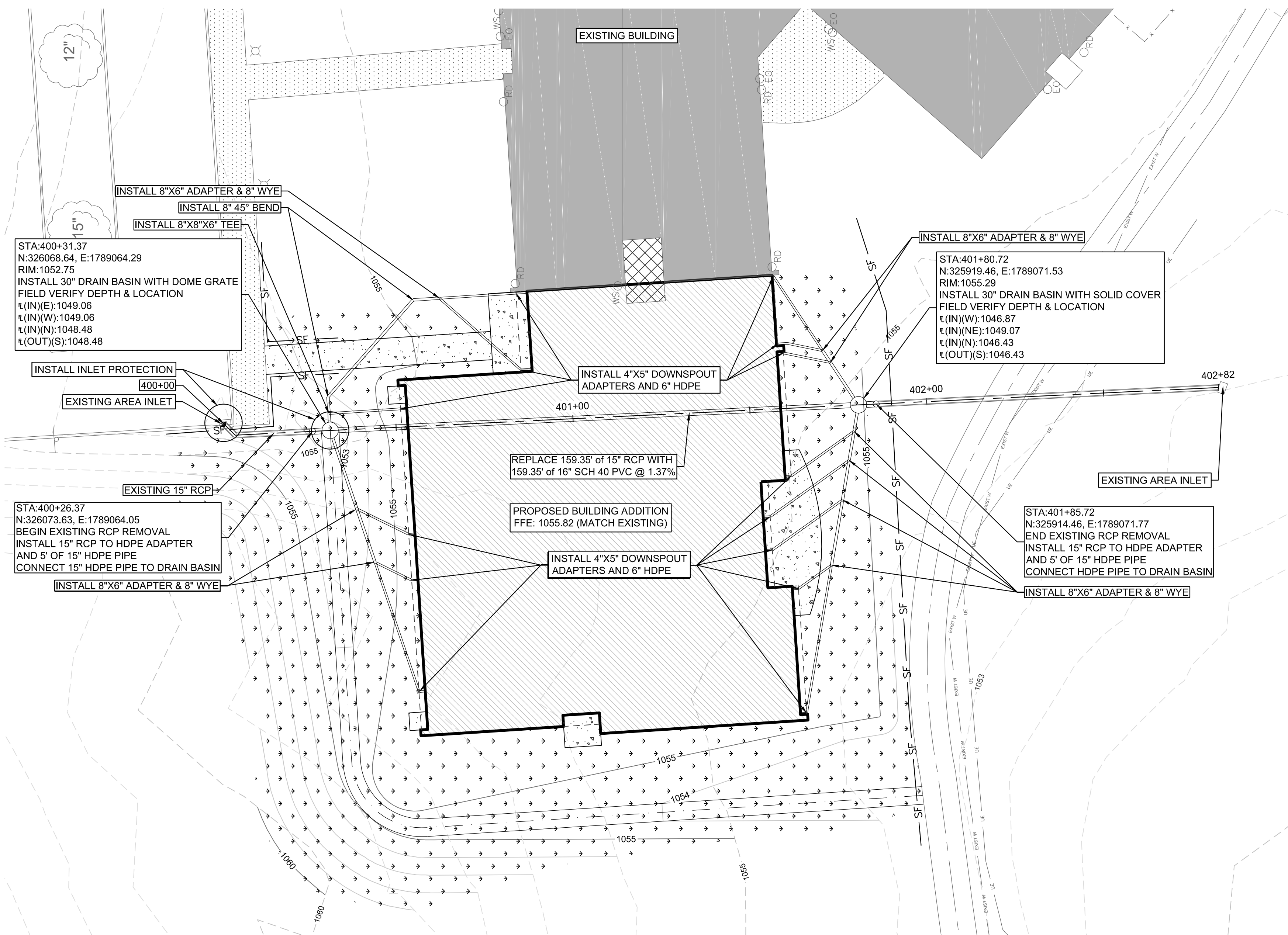
Project Number: **16036**
 Date: **11/13/2017**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

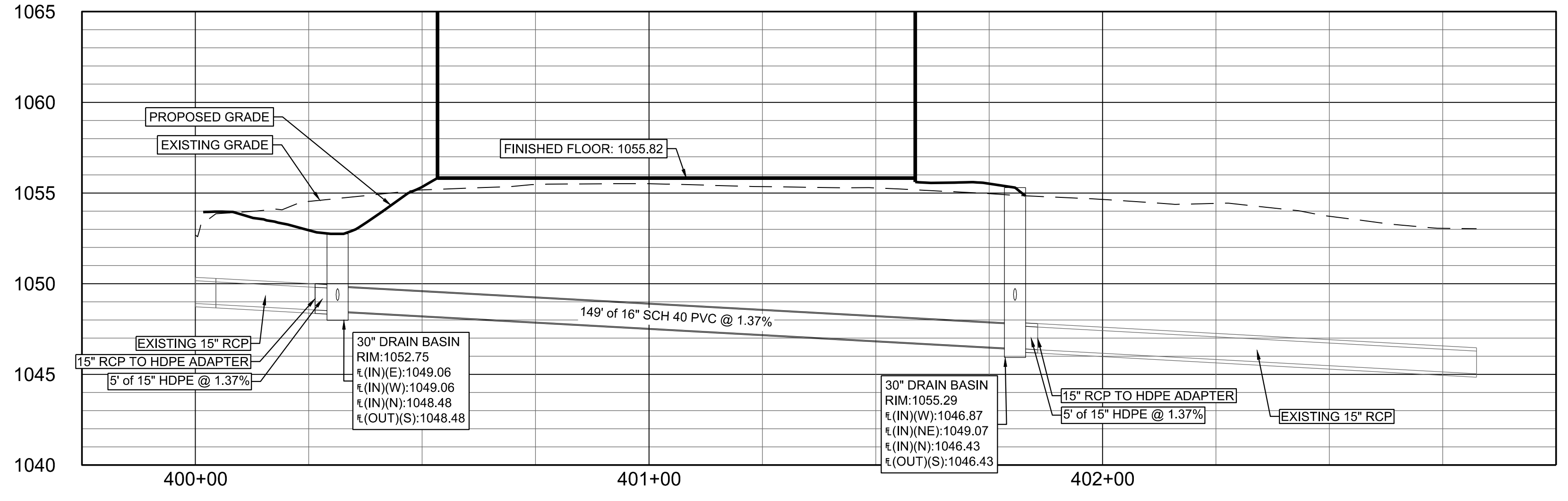
Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
GRADING PLAN

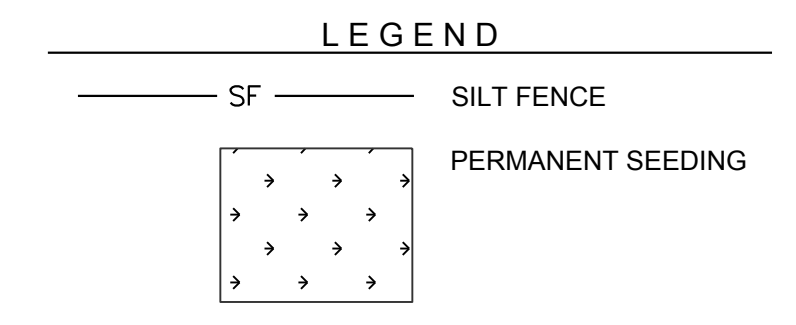
Sheet:
C2



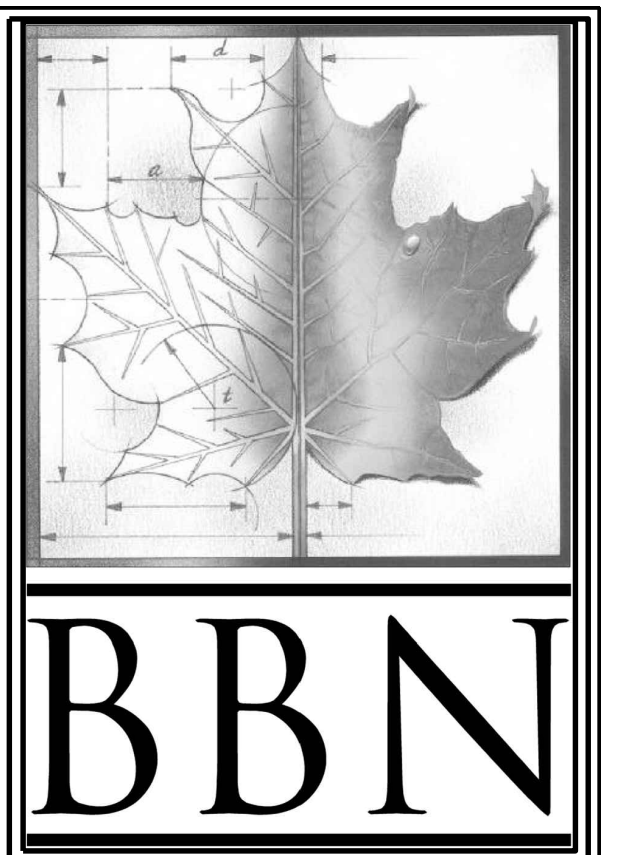
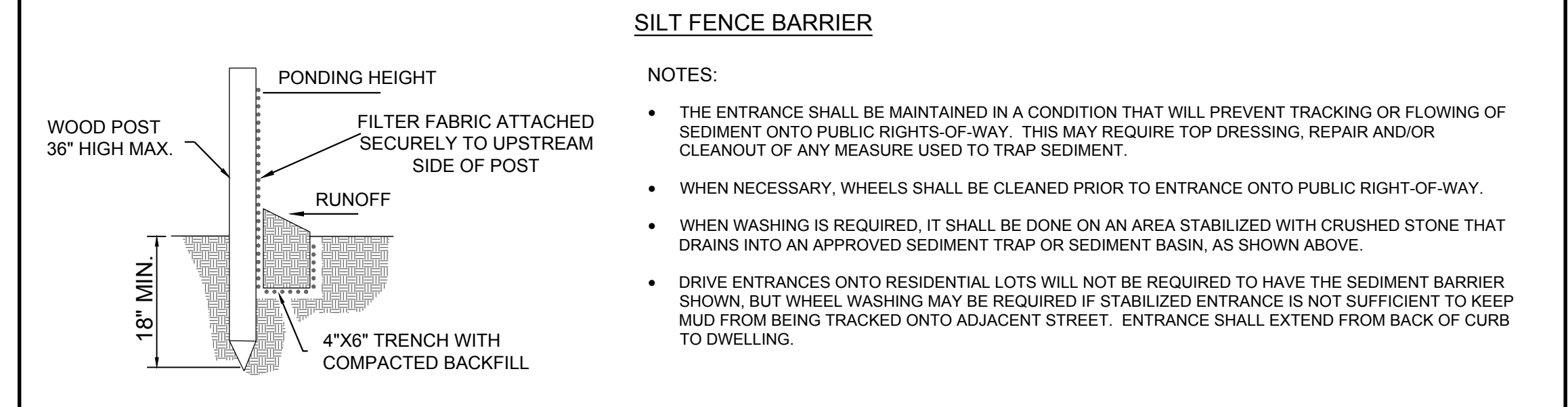
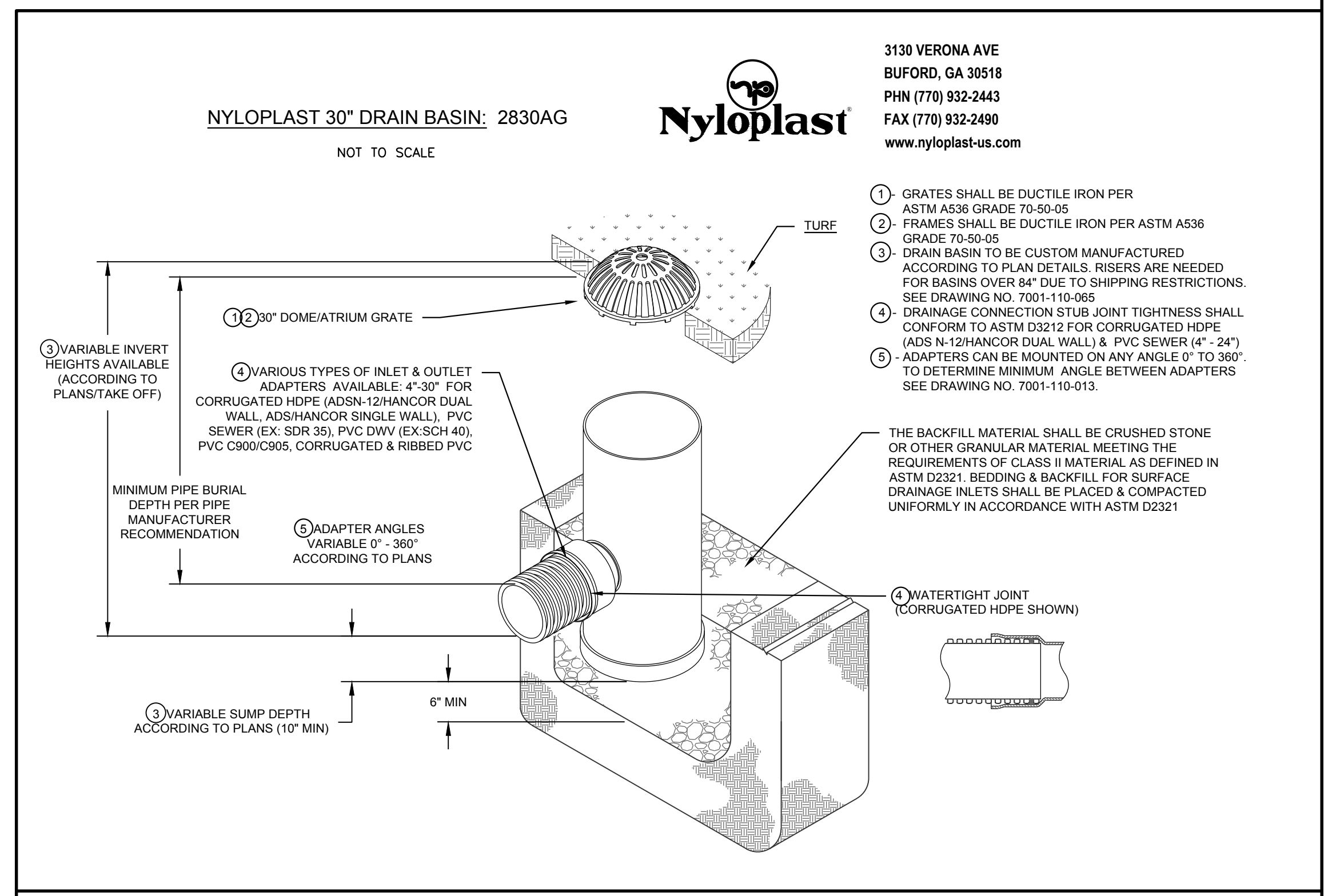
STORM SEWER PROFILE



VERTICAL SCALE: 1" = 5'



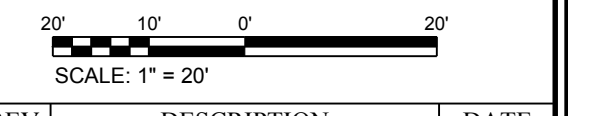
NOTE: SCHEDULE 40 PVC JOINTS SHALL BE SOLVENT WELD TYPE.



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REV	DESCRIPTION	DATE

Project Number: **16036**

Date: **11/13/2017**

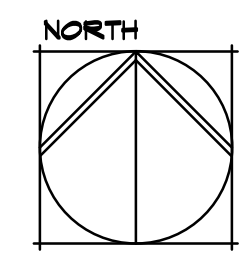
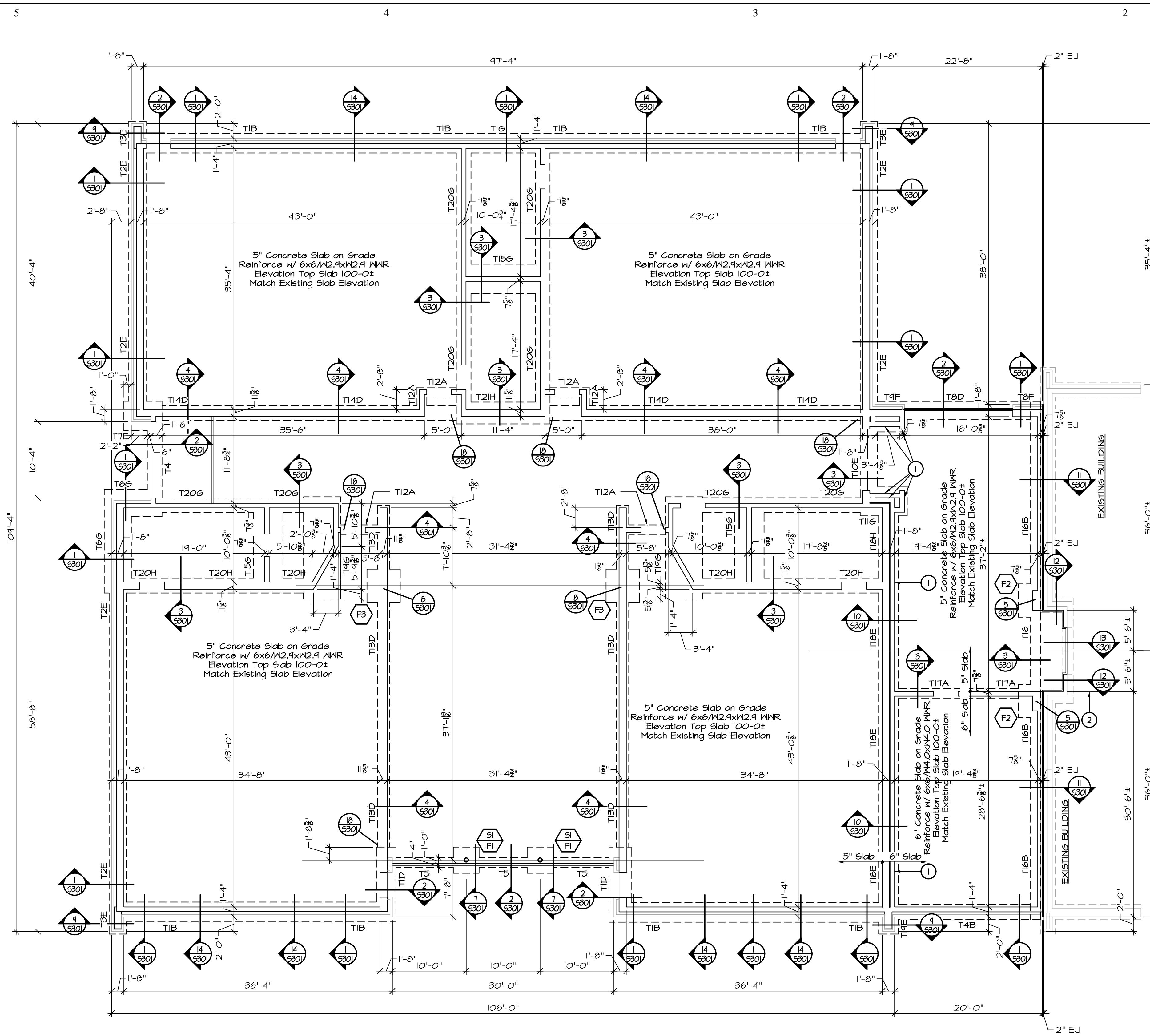
Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
STORM PLAN & PROFILE

Sheet:
C3

OF



FOUNDATION PLAN

1/8" = 1'-0"

PLAN MARKS:

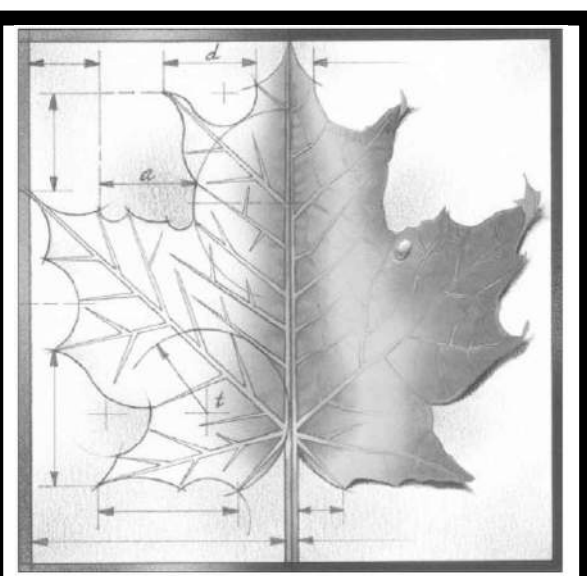
- T#X Trench Footing Mark, See Schedule on Sheet S202
- Letter Following Trench Footing Marks Indicates Vertical Masonry Reinforcing Requirements. See Sheet S202 For Vertical Masonry Reinforcing Schedule.
- SC# Steel Column Mark, See Schedule on Sheet S203
- FC# Concrete Column and Footing Mark, See Schedule on Sheet S202
- F# Concrete Column and Footing Mark, See Schedule on Sheet S202

GENERAL PLAN NOTES:

1. See General Structural Notes on Sheet S201 for additional notes and information.
2. Dimensions on the exterior of the building are to the face of masonry veneer, concrete masonry, face of concrete slab or face of trench footing. See plans for specific relationships.
3. Center all column footings below steel columns. Center all trench footings below masonry walls or masonry wall and veneer, unless noted otherwise.
4. See Detail I5-5301 for Typical Corner Bar Detail.
5. See Detail I6-5301 for Typical Slab Joint Details.
6. See Detail I7-5301 where subgrade plumbing lines or electrical conduit occurs within 2'-0" of bottom of footing elevations.
7. See Detail I-5402 for Typical Masonry Control Joint Details. See Architectural drawing for control joint locations.
8. See Detail 2-5202 for Typical Masonry Wall Reinforcing Detail.
9. See Architectural drawings for exterior slabs and paving details. See Mechanical drawings for equipment and equipment pad details. Typical.

REFERENCED PLAN NOTES:

- ① Masonry Wall Type A, See Sheet S202 for Vertical Masonry Reinforcing Schedule.
- ② Face of new concrete masonry wall to align with face of existing brick veneer at door pocket.



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REV	DESC	DATE



Project Number: **16036**

Date: **11/28/17**

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

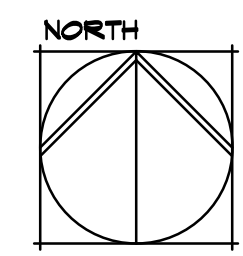
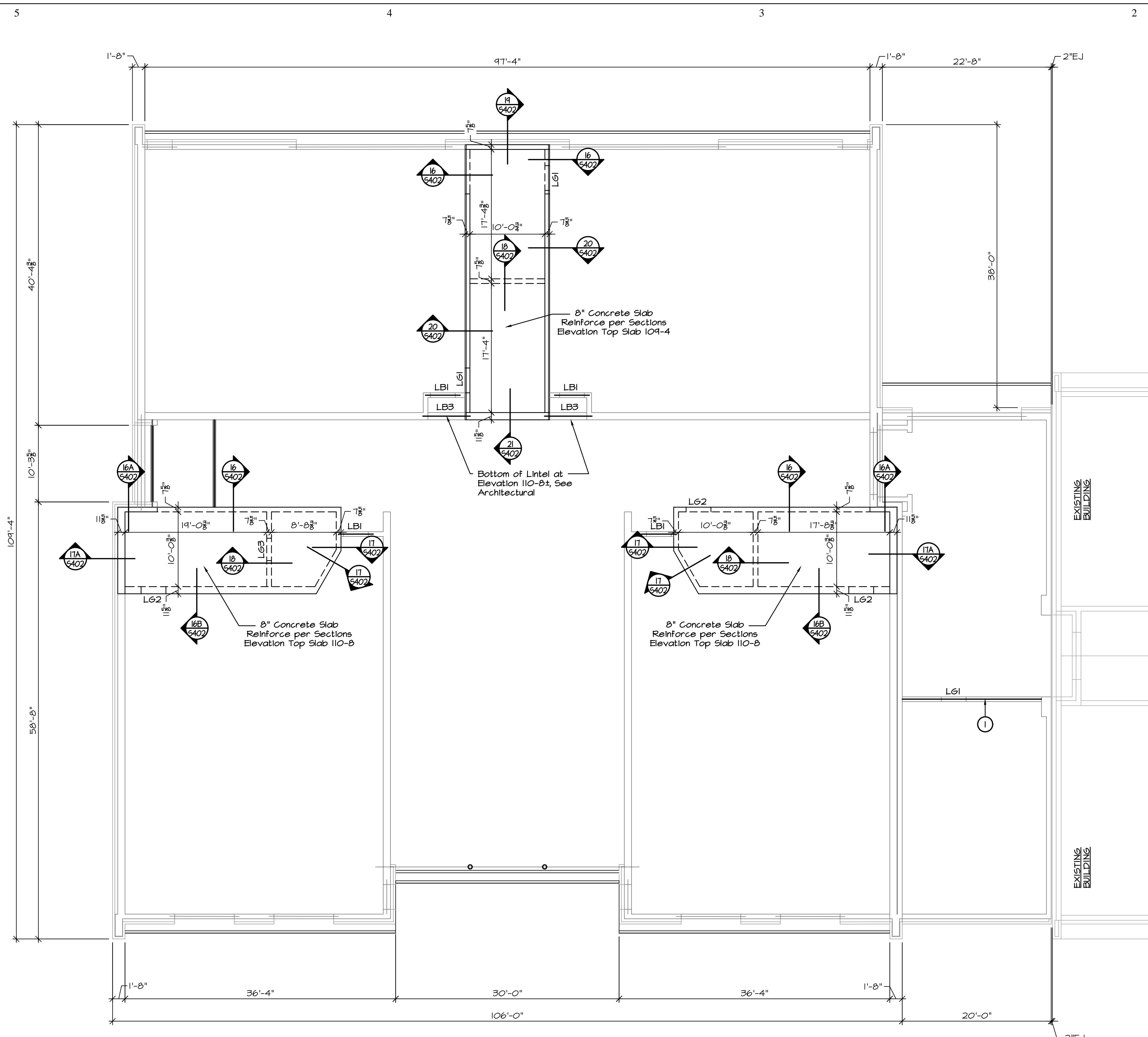
FOUNDATION PLAN

Sheet:

S101

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S101 in 17-045\17-045.05\5-1X
11/28/2017 [DEM]



CAP SLAB FRAMING PLAN
1/8" = 1'-0"

PLAN MARKS:

L## Lintel Mark, See Schedule on Sheet S203

GENERAL PLAN NOTES:

1. See General Structural Notes on Sheet S201 for additional notes and information.
2. Dimensions on the exterior of the building are to the face of concrete masonry or masonry veneer. See plans for specific relationships.
3. See sheet S203 for lintel schedule. See Architectural drawings for sizes and locations of door and window openings. See Mechanical/Electrical/Plumbing drawings for M/E/P opening sizes and locations.

REFERENCED PLAN NOTES:

1. HSS8x4x1/4 tube girt at top of masonry wall per Section 22-S401.

EXISTING BUILDING

EXISTING BUILDING

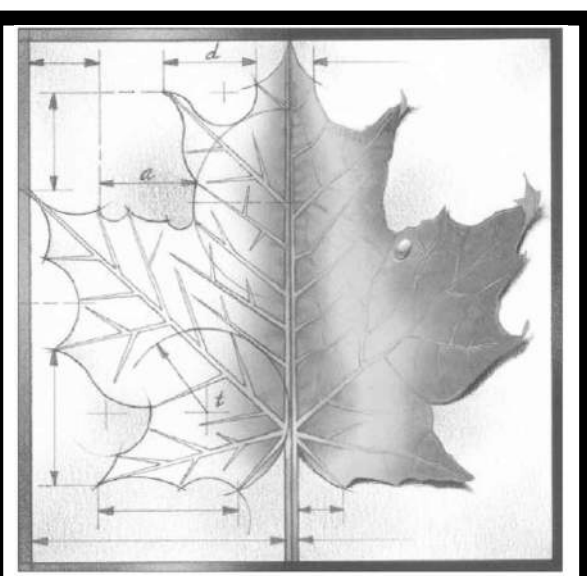
A

B

C

D

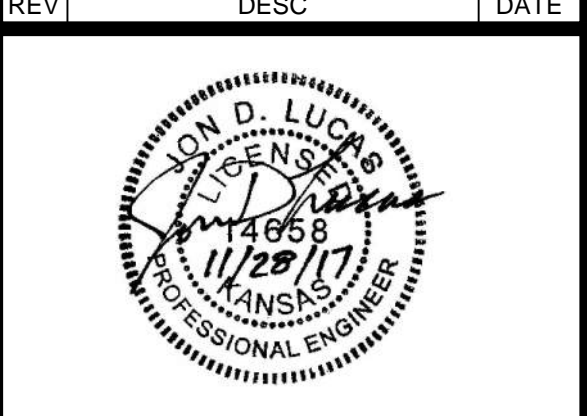
REV	DESC	DATE



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Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

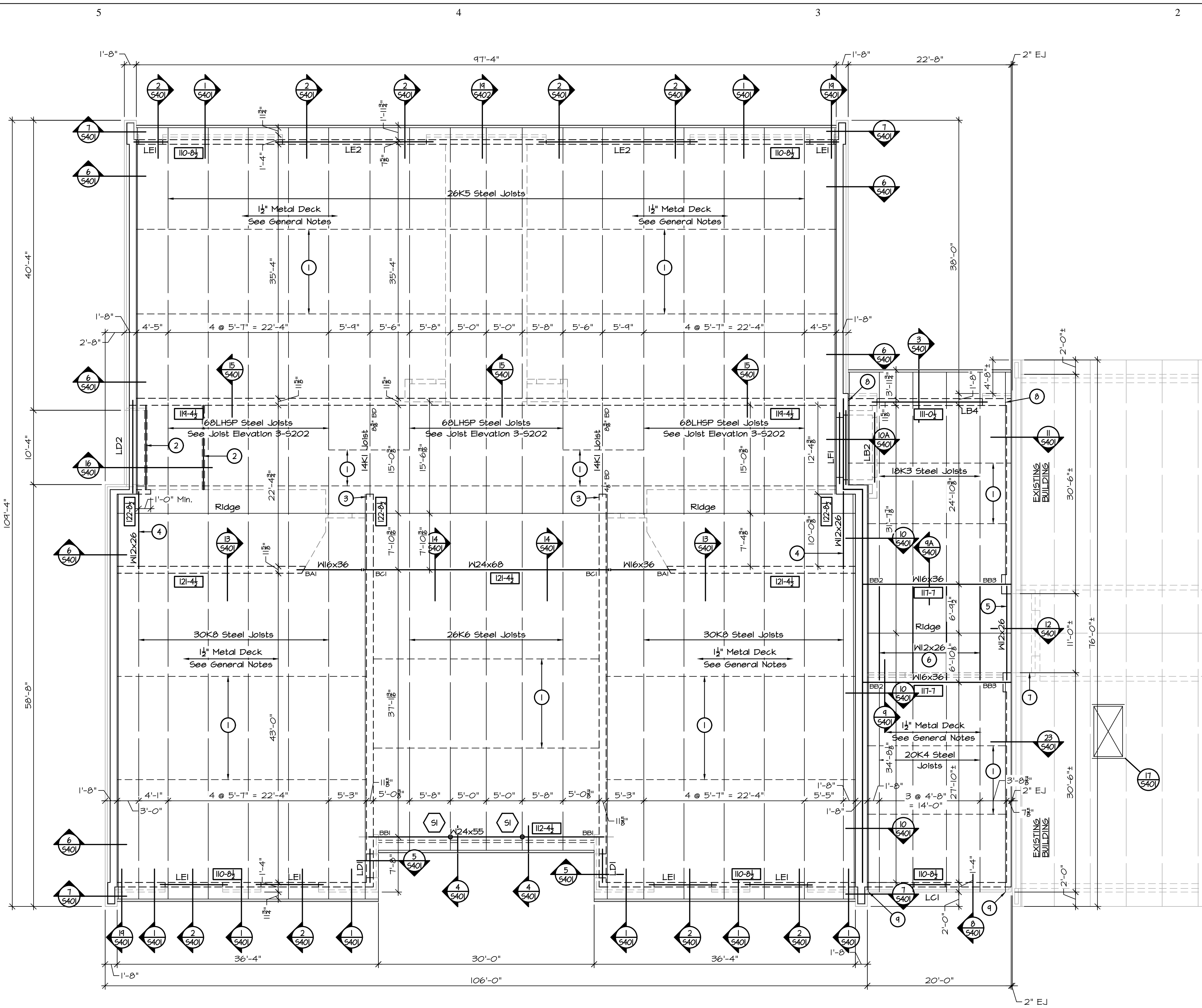
Sheet Title:
ROOF FRAMING PLAN

Sheet:
S102



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S102 in E:\17-045\17-045.05\5-1X
11/28/2017 [DEM]



ROOF FRAMING PLAN
1/8" = 1'-0"

PLAN MARKS:

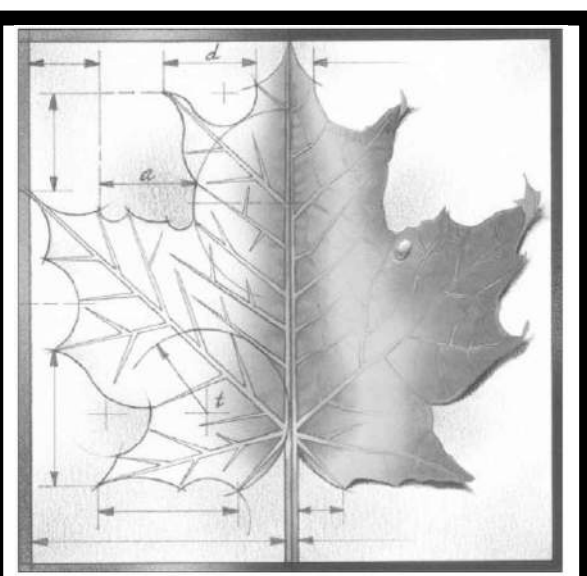
- (S#) Steel Column Mark, See Schedule on Sheet S203
- (XXX-X) Joist Bearing Elevation/Top of Steel Beam
Steel Beams Parallel to Joists Shall Match
Top of Joist, Unless Noted Otherwise.
- L## Lintel Mark, See Schedule on Sheet S203
- ## Beam Bearing Plate, See Schedule on Sheet S203
- ** BD Joist Bearing Depth

GENERAL PLAN NOTES:

1. See General Structural Notes on Sheet S201 for additional notes and information.
2. Dimensions on the exterior of the building are to the face of concrete masonry or masonry veneer. See plans for specific relationships.
3. See sheet S203 for lintel schedule. See Architectural drawings for sizes and locations of door and window openings. See Mechanical/Electrical/Plumbing drawings for M/E/P opening sizes and locations.
4. See Architectural and Mechanical drawings for size and location of roof openings. Provide angle framing around all openings in metal deck, including roof drains per Detail 6-5402. Fasten metal roof deck to angle frames at openings with the specified fastener type and spacing for deck end supports.
5. Fabricate all K-series roof joists with end bearing depths as indicated on sections. See plan, sections, and joist elevation for additional end bearing depths. Provide minimum 2" deep extended ends where noted and/or shown on framing plans and sections.
6. See Section 9-5402 for joist reinforcing detail at concentrated loads. See Mechanical, Electrical and Architectural for miscellaneous concentrated load locations.
7. Top of all 8" interior non-load bearing walls shall be braced to the structure above per Details 12, 13, and 14-5402, unless noted otherwise.
8. See Details 7 and 8-5402 for typical bridging to masonry wall connections.
9. See Details on Sheet S402 for typical steel framing details.

REFERENCED PLAN NOTES:

- 1 Provide horizontal and diagonal joist bridging as shown on framing plans and as per S.I. specifications. Design roof joists for the wind design uplift pressures defined in the Roof Component and Cladding Minimum Wind Design Pressures Table, associated diagram, and table notes on Sheet S203. Provide a single row of horizontal bridging at the first bottom chord panel point at each end of each roof joist.
Connect bridging to masonry walls per Details 7 or 8-5402 as applicable.
- 2 Provide H56x6x4 tube girt above glazing per Detail 16-5401. Provide connection to masonry wall at each end per Detail 17-5401.
- 3 Provide joist bearing PL1/2xT111 with 2-1/2"x10-4 headed anchor studs with top of plate at I22-8 1/2 and 11" width perpendicular to masonry wall. Joist supplier coordinate end depth with top of joist elevation and top of joist bearing plate.
- 4 Provide splice at ridge per Detail 4-5402. Provide end bearing per Detail 3-5402 at each end of beam. Provide embed plate per Section 1-5401 and 5/8" end bearing at north end of beam. Provide embed plate and match joist bearing depth at south end per Section 13-5401.
- 5 Provide splice at ridge per Detail 4-5402. Provide framing connection per Detail 15-5402 at each end of beam.
- 6 Provide splice at ridge per Detail 4-5402. Provide end bearing per Detail 3-5402 at each end of beam. See Plan and Sections 9 and 22-5401 for additional notes and information.
- 7 Face of new concrete masonry wall to align with face of existing brick veneer at door pocket.
- 8 Extend deck support channel for full length of overhang. Provide 2 anchors at 8" o.c. adjacent to overhang. See Section 10A or 11-5401 for additional anchorage requirements.
- 9 Extend deck support angle for full length of overhang. Clip vertical leg of angle to 3" at overhang. Provide 2 anchors at 8" o.c. adjacent to overhang. See Section 10 or 23-5401 for additional anchorage requirements.



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REV	DESC	DATE



Project Number: **16036**

Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:
ROOF FRAMING PLAN

Sheet:
S103

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S103 in 17-045\17-045.05\5-1X
11/28/2017 [DEM]

GENERAL STRUCTURAL NOTES

General Contractor shall review and stamp all the shop drawings before submitting for review. Field verify all existing dimensions, elevations, and conditions. Notify the Architect for direction if the actual existing conditions differ from the conditions shown or implied on the drawings.

The foundation is designed for an allowable bearing pressure of 3000 as recommended in the Geotechnical Investigation Report prepared by GSI Engineering, Job No. 1170323C.

The building structural system is designed per the International Building Code - 2012 Edition.

The contractor shall perform all material testing and inspection requirements for compliance with the governing building code, the project specifications, the local building inspection department, and the following Structural Special Inspection Notes.

Steel joist, structural steel, and metal deck erection shall comply with OSHA Standard 29 CFR Part 1926, Subpart R and all other governing regulations. Steel joist and structural steel suppliers and fabricators shall incorporate the requirements of this standard into the materials fabricated and supplied on this project.

DESIGN LOADS

Building structure is designed for the following loads and criteria:

Table with columns for Risk Category, Dead, Live Load, Snow, Wind, Seismic, and various load parameters like Roof live load, Elevated concrete cap slab live load, Ground snow load, etc.

STRUCTURAL SPECIAL INSPECTIONS

The contractor shall engage one or more qualified independent testing and inspecting agencies to perform the material testing and inspection requirements as outlined in the project specifications and this section. Contractor retained independent testing and inspection agencies are to be approved by the Architect.

- 1. Inspection of fabricators shall comply with IBC Section 1704.2.5.
2. Testing and inspection of steel construction shall comply with IBC Section 1705.2, and American Institute of Steel Construction (AISC) Specification for Structural Steel Buildings 360.
3. Testing and inspection of concrete construction shall comply with IBC Section 1705.3 and IBC Table 1705.3.

- 6. Testing and inspection of post-installed anchors and post-installed reinforcing bars shall comply with IBC Section 1705.11 and IBC Table 1705.3.
a. Field verify all pre-installed anchor and reinforcing bar installation inspection for each type and size of post-installed anchor and reinforcing bar.
b. Perform periodic post-installed anchor and post-installed reinforcing bar installation inspections during the project to verify that the anchor and reinforcing bar installations continue to be properly performed.

SPECIAL REQUIREMENTS FOR ROOMS EI05, EI07, EI10, EI11, EI14, AND EI15

The fabrication and erection of the indicated rooms lateral and vertical load resisting structural elements and systems must comply with the structural special inspection requirements defined in the International Building Code - 2012 Edition (IBC), the preceding structural special inspection section, and the project specifications.

CAST-IN-PLACE CONCRETE

All concrete shall have the following minimum compressive strengths at 28-days. Footings and Foundation Walls: 3000 PSI. Interior Floor Slabs: 3500 psi. Elevated Concrete Cap Slabs: 4000 PSI. Exterior Slabs and Pavement: 4000 PSI.

REINFORCING STEEL

All welded wire reinforcement (WWR) shall meet ASTM A1064. Lap splice all welded wire reinforcement the cross wire spacing plus 2 inches. Furnish all welded wire reinforcement in flat sheets. All reinforcing shall meet ASTM A615 - 60/20000.

CONCRETE MASONRY

All concrete masonry units (CMU) shall be made of lightweight concrete aggregate UNO, and shall meet ASTM C40. All 6" and 8" concrete masonry units shall have a minimum compressive strength of 1900 psi on the net area at 28-days and a net area compressive strength of masonry of 1500 psi. All 12" concrete masonry units shall have a minimum compressive strength of 2800 psi on the net area at 28-days and a net area compressive strength of masonry of 2000 psi.

STRUCTURAL STEEL

Structural steel shall meet the latest AISC "Specification for Structural Steel Buildings." The steel fabricator and detailer shall be responsible for the design and detailing of all steel framing connections which are not specifically detailed on the structural documents. The submitted shop drawings shall clearly show and note all shop and field bolting and welding requirements.

All anchor rods set in concrete shall be furnished with double nuts and shall be set with a template. Provide standard size holes for all bolts and anchors in steel framing members unless noted otherwise (1/16" larger hole than diameter of bolt or anchor).

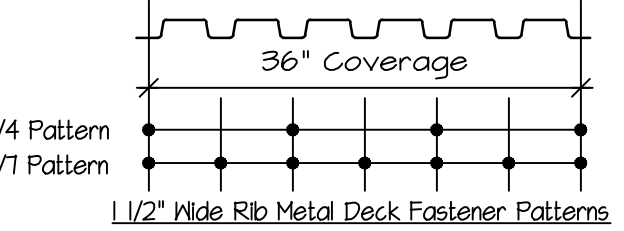
Not all masonry openings that require lintels are shown on the structural drawings. Refer to the architectural and mechanical drawings for the size and location of additional openings in the masonry walls. Galvanize all steel lintels in exterior masonry walls.

STEEL JOISTS

Open web and long span joists shall meet the latest specifications of the Steel Joist Institute (SJI), and shall be fabricated by a member of the SJI. Steel joist spacing shall be as shown on the plans. Weld all joists to steel bearing, where such bearing occurs, except where bolted connections are required to comply with the governing standards or regulations.

METAL ROOF DECK

Metal deck shall be continuous over 3 or more spans unless approved or indicated otherwise on the Structural Drawings. Metal roof deck is designed to resist diaphragm forces and shall be connected to all supports with size 12 screw fasteners, unless approved otherwise.



COLD-FORMED STRUCTURAL FRAMING

All cold-formed structural framing members shall be in accordance with ASTM C455 and shall have engineering properties calculated in conformance with the AISI "Specifications for the Design of Cold-Formed Steel Structural Members". All cold-formed structural framing members shall be installed to conform with ASTM C1007.

POST-INSTALLED ANCHORS

All post-installed anchors and post-installed reinforcing bars shall be installed per the manufacturer's printed installation instructions (MPI). All holes shall be drilled per the manufacturer's instructions with the required bit type and size to provide the minimum embedment length specified in the Structural Drawings.

SPECIAL NOTES AND REQUIREMENTS REGARDING FOUNDATION SYSTEMS AND STRUCTURAL FRAMING SYSTEMS

- 1. Sleeves or blockouts 10 inches or greater in any direction must be approved prior to installing in any trench footings.
2. Locate sleeves or blockouts where the edge of the opening closest to the top or bottom of the trench footing is 12 inches or greater unless specifically approved otherwise.
3. Provide 2-#4 horizontal bars above and below the trench footing openings, one bar each face.

MECHANICAL OR ELECTRICAL OPENINGS, SLEEVES, CONDUITS, OR CORED HOLES IN CONCRETE MASONRY WALLS

- 1. All lintels shall be built into the concrete masonry walls as the walls are being constructed.
2. Do not locate any masonry openings, sleeves, or cored holes directly below any joist or beam bearing plates unless specifically approved otherwise.
3. Mechanical duct openings in the concrete masonry walls that occur below the elevated floor slabs or roof structures shall be located such that the opening and the lintel occur completely below the bond beams at the floor or roof framing member bearing elevation, unless specifically approved otherwise.

EMBEDS, ANCHORS AND INSETS IN STRUCTURAL MEMBERS AND SLABS

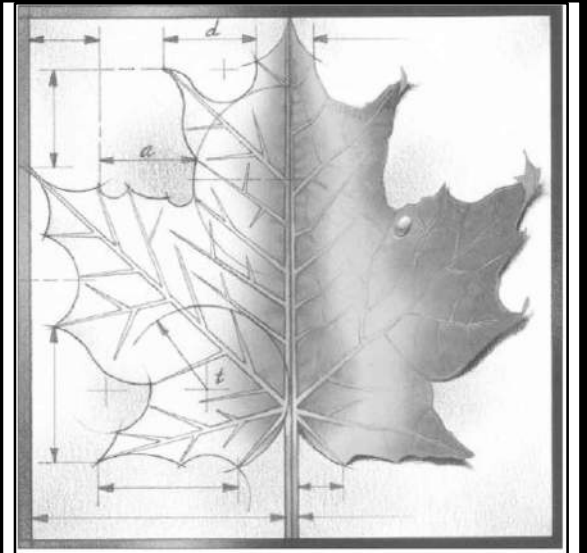
- 1. The general, mechanical, and electrical contractors shall be responsible for the design of all embeds, inserts, anchors, and supplemental framing systems required for the support of the architectural, mechanical, and electrical systems which are not detailed on the structural drawings.
2. Do not hang or attach any architectural, mechanical, or electrical elements or systems from the metal deck or joist bridging unless specifically approved otherwise.

ELECTRICAL CONDUIT IN STRUCTURAL MEMBERS AND SLABS

- 1. No conduit shall be placed in the structural members or slabs without approval from the electrical engineer and the structural engineer.
2. The placement of all anchor rods or embeds in the concrete foundation systems for the attachment of structural steel framing systems shall be checked for accuracy in the dimensional location and elevation. The acceptable tolerance in the placement of anchor rods and embeds cast into concrete for structural steel connections shall be as defined in ACI 117.

CONCRETE ELEVATION LIMITATIONS

- 1. The placement of all reinforcing steel bars in cast-in-place concrete shall be checked to confirm that the specified or noted concrete coverage is being maintained on the reinforcing bars and tie wires. All loose tie wires must be removed and the ends of all tie wires must be bent back into the concrete members. The reinforcing bar placement must be properly chaired or properly held in place to prohibit any displacement during the concrete placement.

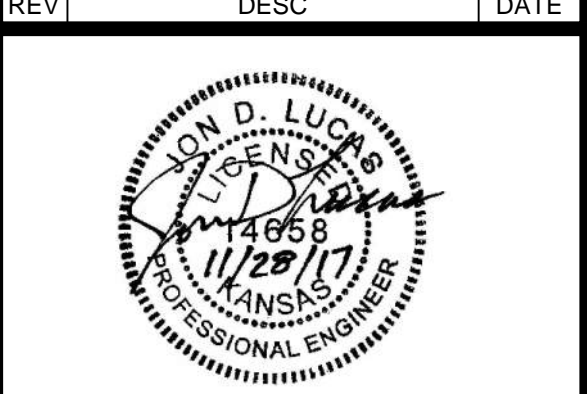


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Information provided on the drawings regarding existing conditions has been obtained from the best sources available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Includes in part of the contract all work required to produce the indicated result.

REVI DESC DATE

Project Number: 16036
Date: 11/28/17
Project Name: USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION
Project Address: 1701 KAW VALLEY ROAD WAMEGO, KS 66547
Sheet Title: GENERAL STRUCTURAL NOTES



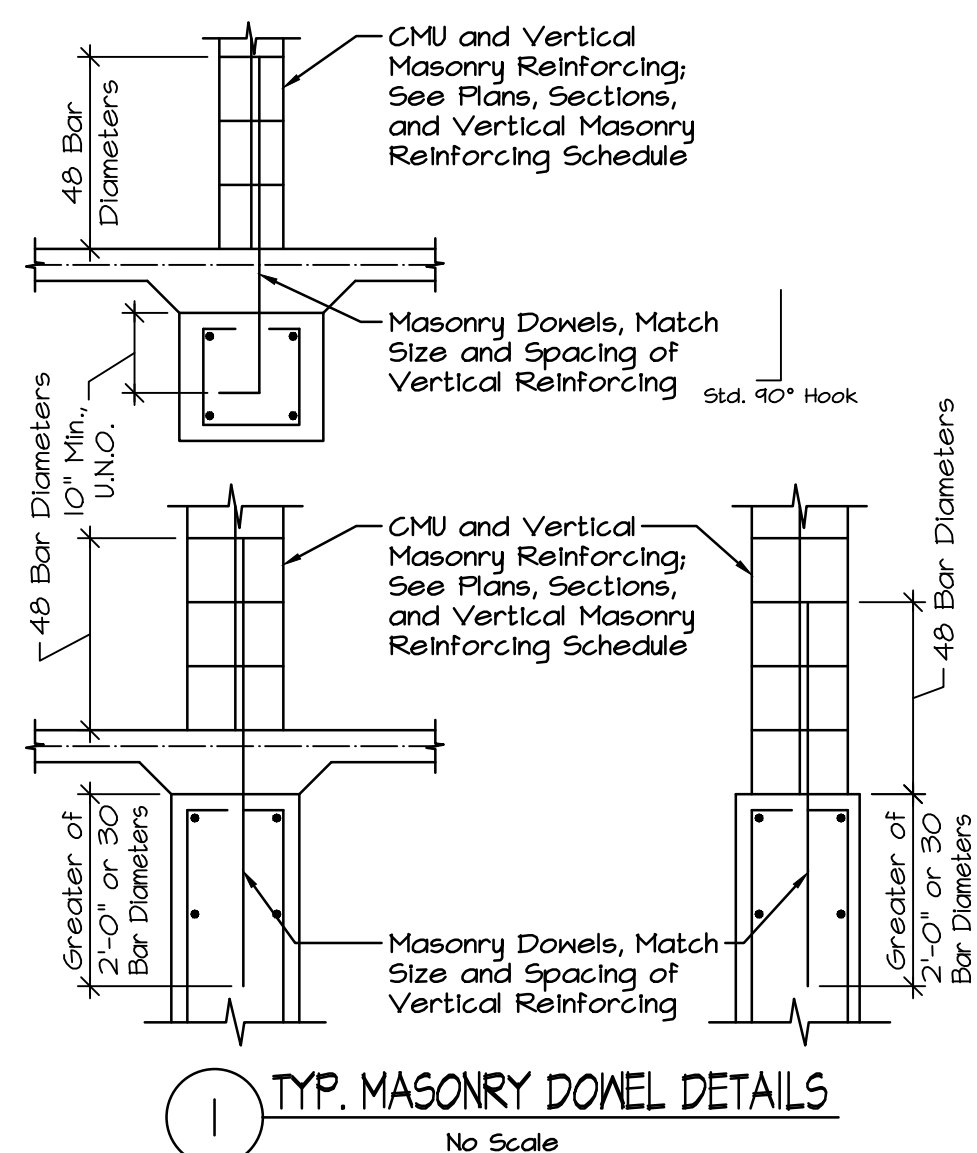
Project Number: 16036
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Sheet Title: GENERAL STRUCTURAL NOTES
S201
Sheet: S201
Of: 06



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S201 in 11/17-045/17-045,05-S-2X [1:24]
11/28/2017 [DEM]



VERTICAL MASONRY REINFORCING SCHEDULE

- (A) 8" Lightweight Masonry Block w/ #4 at 48" o.c. Vertical Masonry Reinforcing
- (B) 8" Lightweight Masonry Block w/ #5 at 32" o.c. Vertical Masonry Reinforcing
- (C) 8" Lightweight Masonry Block w/ #5 at 16" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 4'-0" o.c. Vertically for Full Height of Wall, including Parapets.
- (D) 12" Lightweight Masonry Block w/ #5 at 48" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 8'-0" o.c. Vertically for Full Height of Wall.
- (E) 12" Lightweight Masonry Block w/ #5 at 24" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 8'-0" o.c. Vertically for Full Height of Wall.
- (F) 12" Lightweight Masonry Block w/ #5 at 8" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 4'-0" o.c. Vertically for Full Height of Wall.
- (G) 8" Lightweight Masonry Block w/ #5 at 8" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 4'-0" o.c. Vertically to Cap Slab Elevation.
- (H) 12" Lightweight Masonry Block w/ #5 at 8" o.c. Vertical Masonry Reinforcing. Provide 8" Deep Bond Beams at 4'-0" o.c. Vertically to Cap Slab Elevation.

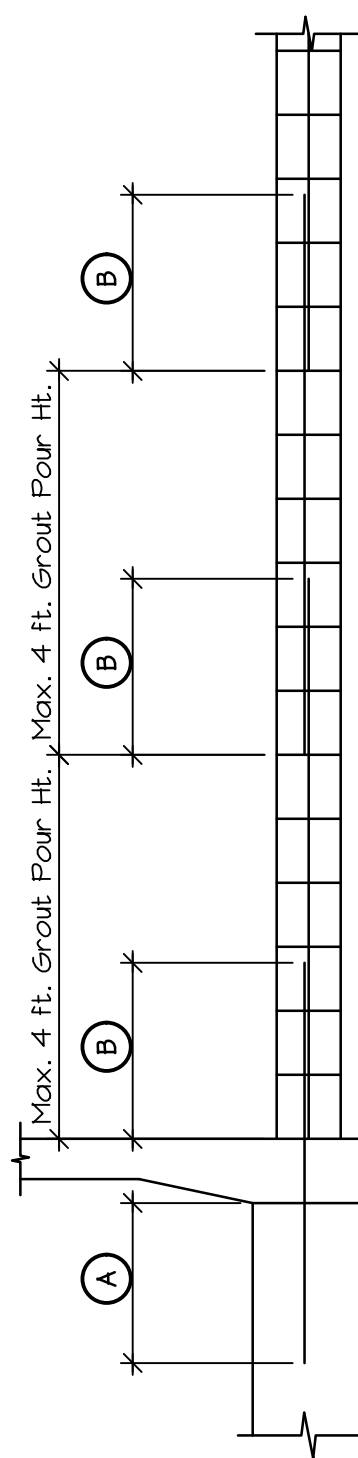
See Detail 2-5202 for Typical Masonry Wall Reinforcing Detail

See Details 11-5402 and 1-5402 for Typical Masonry Reinforcing at Lintels and Control Joints

Grout Cores at Each Vertical Bar. Provide Horizontal Joint Reinforcing Per Specifications at 16" o.c. Vertically, Unless Noted Otherwise

Provide Masonry Dowels at All Reinforced Masonry Walls to Match the Size and Spacing of the Vertical Masonry Reinforcing. U.N.O. Dowels Length Shall be Based on the Embedment and Lap Lengths as Indicated on the Typ. Masonry Dowel Details 1-5202.

1. Grout solid all noted block cores and all cores with vertical reinf. bars. Grout shall attain a minimum 28 day compressive strength of 2500 psi and shall have a 3 in. to 10 in. slump range.
2. Grout shall be placed in max. 24 in. grout lift heights and each lift height shall be consolidated by mechanical vibration during grout placement.
3. Reconsolidate each grout lift height 5 to 15 min. after initial grout placement by mechanical vibration. Initial grout lift height shall be consolidated and reconsolidated prior to completion of additional grout lift to complete the grout pour height.
4. The grout horizontal construction joint at each pour height shall stop a min. of 1 1/4" below a block mortar joint, except at the top of the wall or at the block coursing below bond beams, beam bearing, or other similar locations. Adjust grout level after reconsolidation at the top of walls, below bond beams, below beam bearings, or other sim. locations as required to attain the proper top of grout elevation.
5. Use a small headed vibrator and only vibrate each grouted core for a few seconds during the consolidation and reconsolidation process.
6. In all block cores to be grouted, mortar shall not project more than 1/4" from the face of the block into the block core. Clean out the block cores of all mortar droppings or excessive mortar projections prior to starting the grouting process.



2 TYP. MAS. WALL REINF. DETAIL
No Scale

TRENCH FOOTING SCHEDULE

MARK	TYPE	ELEV. BOTT.	ELEV. TOP	ELEV. LEDGE	DIMENSIONS		REF. SECTION	REMARKS
					T	A		
T1	1	96-0	99-4	-	2-8	-	1-5301	14-5301, 2-5301 at Doors/Glazing
T2	1	96-0	99-4	-	2-4	-	1-5301	
T3	1	96-0	99-4	-	2-4	-	4-5301	
T4	1	96-0	99-4	-	2-0	-	1-5301	2-5301 at Doors/Glazing
T5	1	96-0	99-4	-	1-4	-	2-5301	7-5301
T6	1	96-0	99-4	-	3-8	-	1-5301	
T7	1	96-0	99-4	-	4-0	-	1-5301	
T8	1	96-0	99-4	-	2-4	-	1-5301	2-5301 at Doors/Glazing
T9	1	96-0	99-4	-	4-0	-	1-5301 SIM	
T10	1	96-0	99-4	-	2-4	-	10-5301	
T11	1	96-0	99-4	-	4-0	-	10-5301 SIM	
T12	1	97-10	99-4	-	1-4	-	4-5301	
T13	1	97-10	99-4	-	1-8	-	4-5301	
T14	1	97-10	99-4	-	2-0	-	4-5301	
T15	1	96-0	99-4	-	4-0	-	3-5301	
T16	2	96-41	99-4	-	1-4	-	11-5301	1 3-5301
T17	1	96-0	99-4	-	1-4	-	3-5301	
T18	1	96-0	99-4	-	2-8	-	10-5301	
T19	1	96-0	99-4	-	5-0	-	3-5301	
T20	1	96-0	99-4	-	2-0	-	3-5301	
T21	1	96-0	99-4	-	3-0	-	3-5301	

TRENCH FOOTING SCHEDULE REMARKS:

- 1 Bottom of footing to match bottom of existing footing.

TRENCH FOOTING SCHEDULE NOTES:

- 1) Letters following trench footing marks on foundation plans indicate concrete masonry unit and vertical masonry reinforcing, see Vertical Masonry Reinforcing Schedule. Trench footing marks which are not followed by a letter indicates no vertical masonry reinforcing is required. See Architectural for details and locations of unreinforced masonry walls.
- 2) The scheduled trench footing width is the minimum structural width required. Where rigid insulation is required adjacent to the trench footing, increase the width of the excavation to allow for the structural width of the trench footing plus the thickness of the insulation. See Architectural drawings for locations with foundation insulation.



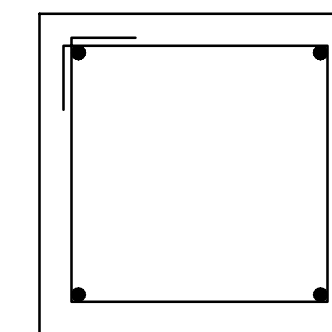
TRENCH FOOTING TYPES

CONCRETE COLUMN AND FOOTING SCHEDULE

MARK	F1	F2	F3
COLUMN SIZE	(1)	-	-
ELEV. TOP COLUMN	99-4	-	-
COLUMN VERTS.	Footing Dowels	-	-
COLUMN TIES	(2)	-	-
ELEV. TOP FOOTING	99-4	99-4	99-4
FOOTING SIZE	3-6x3-6x3-4	3-0x4-6x3-0±	4-6x4-6x1-6
FOOTING BARS	8-#4x3-0	(3)	10-#5x4-0
FOOTING DOWELS	4-#7x4-0 2-10 1-2	Masonry Dowels	Masonry Dowels

CONCRETE COLUMN AND FOOTING SCHEDULE REMARKS:

- 1 Provide concrete column reinforcing for a 20x20 concrete column in footing, see plan and sections. Provide coverage at ties per ACI for a formed foundation exposed to earth. Center column reinforcing below steel column.
- 2 #3 ties, 1 @ 2 1/2', 3 @ 3" o.c. top, remainder at 12" o.c.
- 3 3-#5x4-0 straight north-south and 10-#5x4-2 hooked dowels east-west. 5 hooked dowels top and bottom, drill and anchor hooked bars 8" into existing footing similar to Section 11-5301.



CONCRETE COLUMN DETAILS

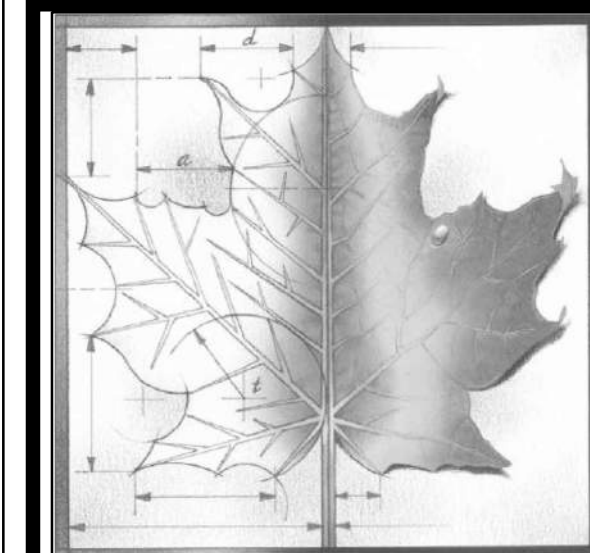
4 Bar Column

A

B

C

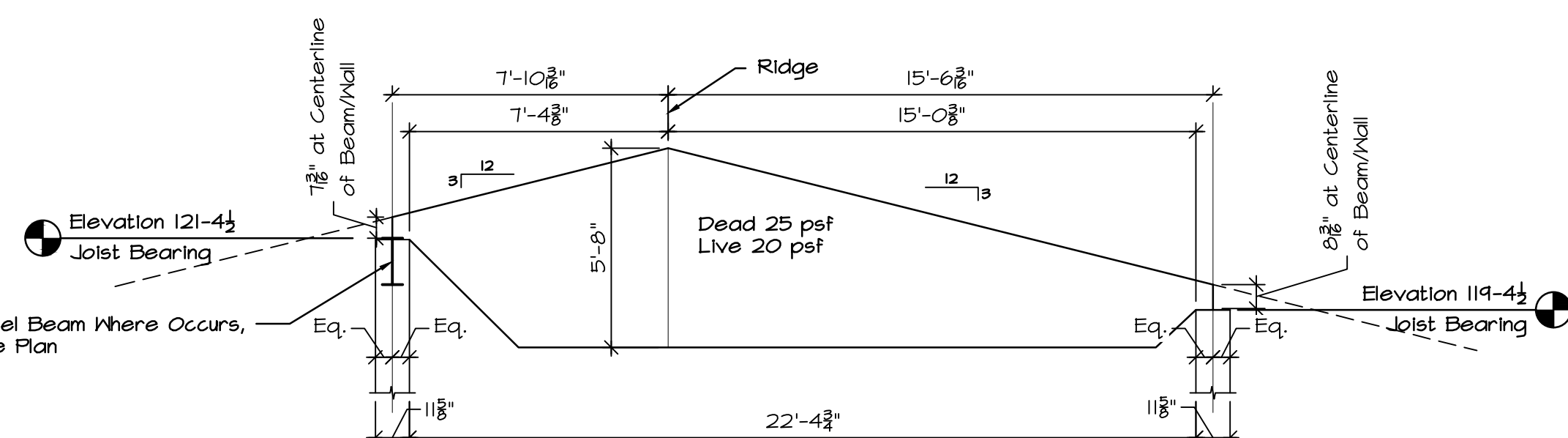
REV | DESC | DATE



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Design Joists to Comply with the Following Deflection Criteria:

Total Load: L/240
Live Load: L/360

Provide horizontal and diagonal joist bridging as shown on framing plans and as per 5.11 specifications. Design roof joists for the wind design uplift pressures defined in the Roof Component and Cladding Minimum Wind Design Pressures Table, associated diagram, and table notes on Sheet 5203. Provide a single row of horizontal bridging at the first bottom chord panel point at each end of each roof joist.

LOAD DIAGRAM FOR 60LHSP JOIST

3 JOIST ELEVATION
No Scale



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Project Number: 16036

Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

SCHEDULES AND DETAILS

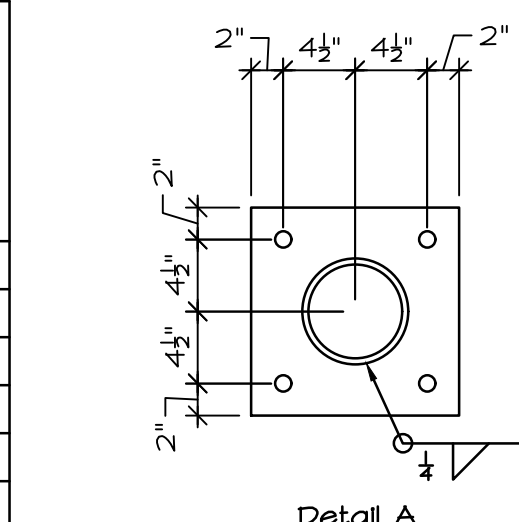
Sheet:

S202

Of:

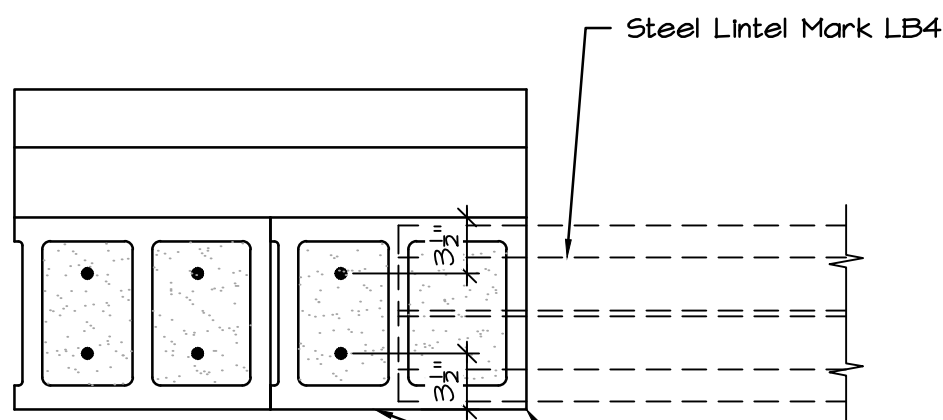
STEEL COLUMN SCHEDULE

MARK	S1
COLUMN SECTION	6"Ø Std. Pipe
BASEPLATE	PL 3/4"x13"x13"
BASEPLATE DTL	A
ELEV. BOTTOM	99'-6"
GROUT	2"
ANCHOR RODS	4-ARI



COLUMN BASEPLATE DETAILS

Provide 1-#5 Masonry Dowels at Every Core with Vertical Reinforcing, Center Dowels in Masonry Wall



Provide 2-#5 Vertical and Solid Grouted Core for Entire 12" Masonry Wall Length Each Side of Lintel Bearing to Perpendicular Wall or Expansion Joint as Applicable. Reinforce Wall Above Lintel as Indicated on Foundation Plan

Provide Solid Grouted Core Below Lintel Bearing. See Detail 11-5402

TYP. LINTEL BEARING DETAIL AT LINTEL MARK LB4



LINTEL SCHEDULE

MARK	MEMBERS	TYPE	REMARKS
LA1	Ø" Deep Bond Beam Lintel w/ 2-#4 Cont. Bottom	A	
LB1	W8x10 w/ Bottom PL 1/4"x1"	B	
LB2	W8x10 w/ Bottom PL 1/4"x1"	B	
LB3	W8x24 w/ Bottom PL 1/4"x1"	B	
LB4	W6x36 w/ Bottom PL 3/8"x1"	B	(2)
LC1	W8x10 w/ Bottom PL 3/8"x15" & Vert. PL 3/8"x4"	C	(1)
LD1	W8x24 w/ Bottom PL 3/8"x19" & Vert. PL 3/8"x6"	D	(1)
LD2	W6x36 w/ Bottom PL 3/8"x19" & Vert. PL 3/8"x8"	D	(1)
LE1	W6x36	E	(3)
LE2	W6x36	E	(4)
LF1	2-W8x24 w/ Bottom PL 3/8"x19"	F	
LG1	16" Deep Bond Beam Lintel with Ø-#5	G	(5)
LG2	32" Deep Bond Beam Lintel with Ø-#5	G	(5)
LG3	32" Deep Bond Beam Lintel with Ø-#5	G	(5, 6)

LINTEL SCHEDULE REMARKS:

- Galvanize assembly
- Provide #4xØ-10 weldable reinforcing dowels at each end and at 16" o.c. maximum between. Provide jamb reinforcing at each end of lintel per Detail 3-5202.
- Provide 3/8"ØxØ-6 headed anchor studs at each end and at 16" o.c. maximum between. Provide bearing, angle bracket, and anchor at each end of lintel per Detail 20-5401.
- Provide 3/8"ØxØ-6 headed anchor studs at each end and at 16" o.c. maximum between. Provide bearing, angle bracket, and anchor at each end of lintel per Detail 21-5401. Provide 12" of bearing at each end of lintel.
- See Detail 2-5202 for additional notes and information. Provide jamb reinforcing at each end per Detail 11-5402.
- Bond beam lintels shall extend for full length of masonry wall.

LINTEL SCHEDULE NOTES:

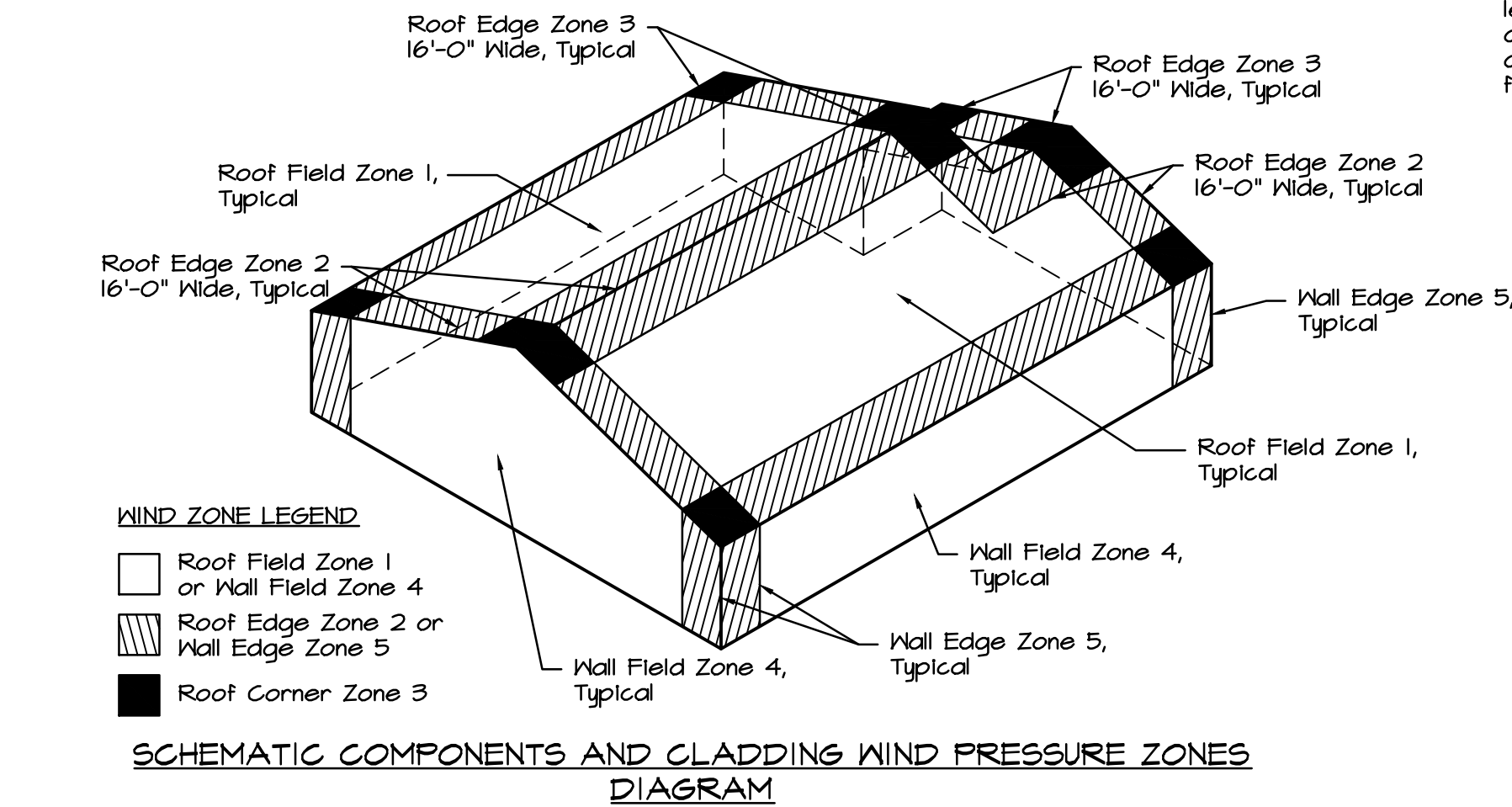
- All masonry lintels are to extend 24" beyond jambs, except extend to corner at locations where corner occurs 24" or less from jamb. Provide bond beam and corner bar at perpendicular wall at corners. Grout cores solid below lintel bearing. See Detail 11-5402 for additional notes and information.
- Use special u-shaped bond beam lintel block units at all masonry bond beam lintels.
- Properly shore all bond beam lintels during block and grout placement and all shores shall remain in place for a minimum of 7 days and until the grout has attained the specified compressive strength.
- Verify size, location, and elevation of all masonry wall openings with the Architectural drawings. Verify size, location, and elevation of all mechanical wall openings with the Mechanical drawings and the mechanical contractor.
- All steel lintels shall have a minimum of Ø" bearing on concrete masonry at each end, unless noted otherwise. Grout cores solid below bearing. See Detail 11-5402 for Typical Lintel Bearing and reinforcing conditions and Detail 10-5402 for Typical Steel Lintel conditions.
- Provide 3/8" stiffener plates at each end and at 24" o.c. maximum for openings greater than 6'-4" in width. See sections for locations where additional stiffeners may be required.
- Provide 6" bearing length for lintels at locations where an Ø inch bearing length would expose the end of the lintel on inside face of the masonry wall below the ceiling elevation.
- Provide lintel LA1 at all openings 1'-4" or less in width and located a minimum of 12" from centerline of joist bearing in Ø" or 12" interior masonry bearing walls, including masonry wall supporting roof or cap slabs, see Detail 1-5203.
- Provide lintel LA1 at all openings 3'-4" or less in width in Ø" and 12" interior non-load bearing masonry walls, unless noted otherwise.
- Provide lintel LB1 at all openings 6'-4" or less in width at Ø" interior masonry walls and lintel LB3 at all openings 6'-4" or less in width at 12" interior masonry walls and at all openings which occur within 12" of the centerline of joist bearing locations (see Lintel Schedule Note #8), see Detail 1-203.
- Provide lintel LC1 at all openings 6'-4" or less in width in Ø" exterior masonry walls with brick veneer.
- Provide lintel LD1 at all openings 6'-4" or less in width in 12" exterior masonry walls with brick veneer.

BEARING PLATE SCHEDULE

MARK	MEMBERS	TYPE	REMARKS
BA1	PL 3/4"x10-II w/ 1-ARI	A	
BB1	PL 3/4"x9I-2 w/ 2-ARI	B	
BB2	PL 3/4"x9I-2 w/ 2-ARI	B	
BB3	PL 3/4"x1-2xI-2 w/ 2-ARI	B	
BC1	PL 1/2"x1-4 w/ 2-ARI	C	

BEARING PLATE SCHEDULE NOTES:

- Bolt bearing plate to masonry wall. Field weld beam to bearing plate. See Detail 5-5402.

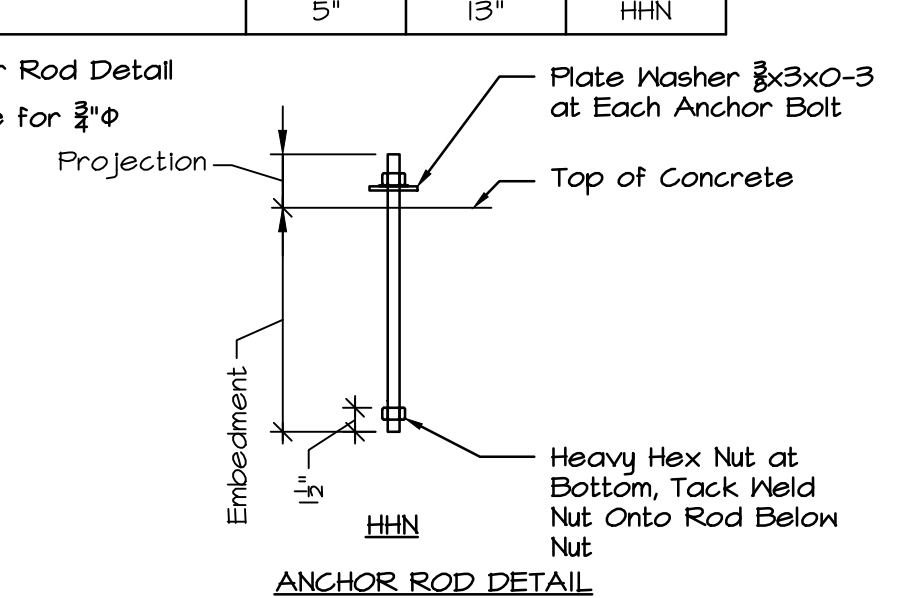


ANCHOR ROD SCHEDULE

MARK	SIZE	PROJ	EMBED	HOOK
ARI	3/4"Øx1-6"	5"	13"	HHN

ANCHOR ROD SCHEDULE NOTES:

- Heavy Hex Nut, See Anchor Rod Detail. Provide 1/8"Ø Holes in Bearing Plate for 3/8"Ø Anchor Rods.



WALL COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES

LOCATION	WALL		PARAFET	
	ZONE 4/5	ZONE 4	ZONE 4	ZONE 5
TRIBUTARY AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	CASE A (PSF)	CASE B (PSF)
10	+33.3	-36.2	+86.5	-69.5
50	+24.9	-32.7	+73.1	-62.5
100	+28.4	-31.2	+67.4	-59.5
200	+26.9	-29.7	+65.9	-56.5
500	+24.9	-27.7	+63.9	-52.6

WALL COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURE TABLE NOTES:

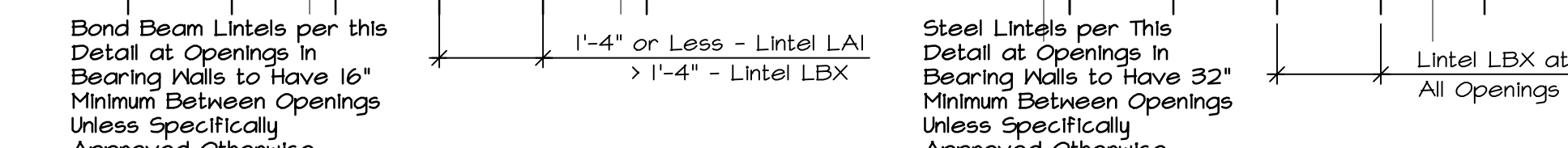
- Positive pressures act inward to the building envelope.
- Negative pressures act outward to the building envelope.
- The use of linear interpolation is permitted for tributary areas not shown.
- Wind pressures indicated in table are gross ultimate wind pressures to be used with the load combinations defined in ASCE 7-10.
- Tributary areas for components and cladding shall be the effective wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURES

ZONE	ALL ZONES	NO OVERHANG		OVERHANG	
		ZONE 1	ZONE 2	ZONE 2	ZONE 3
TRIBUTARY AREA (FT²)	INWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)	OUTWARD (PSF)
10	+14.2	-30.5	-53.1	-78.6	-62.2
20	+17.5	-29.7	-48.9	-73.5	-62.2
50	+15.3	-28.5	-43.3	-66.7	-62.2
100	+13.6	-27.7	-39.0	-61.6	-62.2

ROOF COMPONENTS AND CLADDING MINIMUM WIND DESIGN PRESSURE TABLE NOTES:

- Positive pressures act inward to the building envelope.
- Negative pressures act outward to the building envelope.
- The use of linear interpolation is permitted for tributary areas not shown.
- Wind pressures indicated in table are gross ultimate wind pressures to be used with the load combinations defined in ASCE 7-10.
- Tributary areas for components and cladding shall be the effective wind area as defined in the edition of the ASCE 7 referenced by the IBC edition defined in the General Structural Notes.
- Roof joists shall be designed for tabulated gross uplift forces less dead load. The dead load to be used in the uplift calculations shall not exceed 10 psf after applying the appropriate allowable stress design or strength design reduction factor for wind uplift load cases.

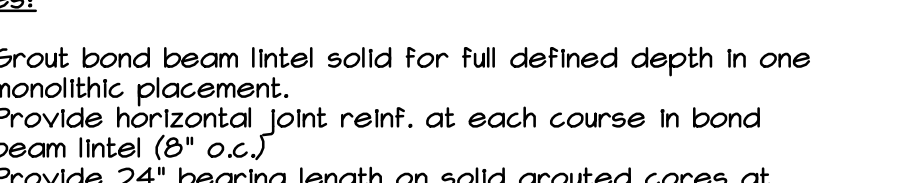


TYPICAL LINTEL REQUIREMENTS NOT SPECIFICALLY INDICATED ON PLANS AT INTERIOR MASONRY WALLS SUPPORTING ROOF OR FLOOR FRAMING, INCLUDING DECK

Bond Beam Lintels per this Detail at Openings in Bearing Walls to Have 16" Minimum Between Openings Unless Specifically Approved Otherwise

Steel Lintels per this Detail at Openings in Bearing Walls to Have 32" Minimum Between Openings Unless Specifically Approved Otherwise

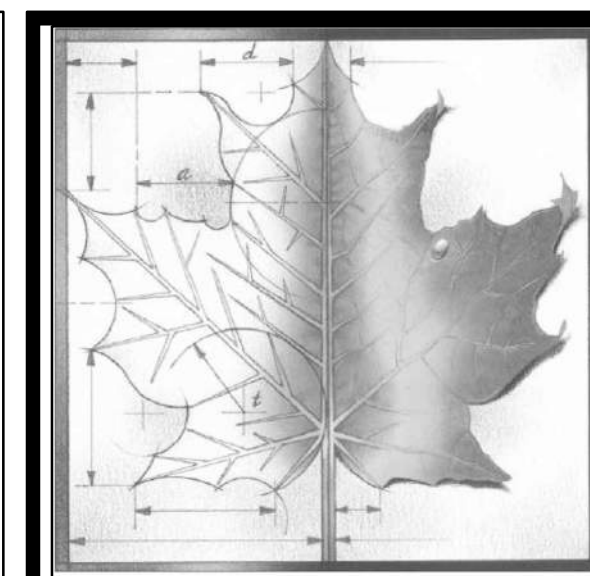
DETAIL 1: No Scale



BOND BEAM LINTEL

Grout bond beam lintel solid for full defined depth in one monolithic placement. Provide horizontal joint reinf. at each course in bond beam lintel (Ø" o.c.) Provide 24" bearing length on solid grouted cores at each end of lintel, see Lintel Schedule note #1 for conditions at corners, typical unless noted otherwise.

DETAIL 2: No Scale



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REV	DESC	DATE
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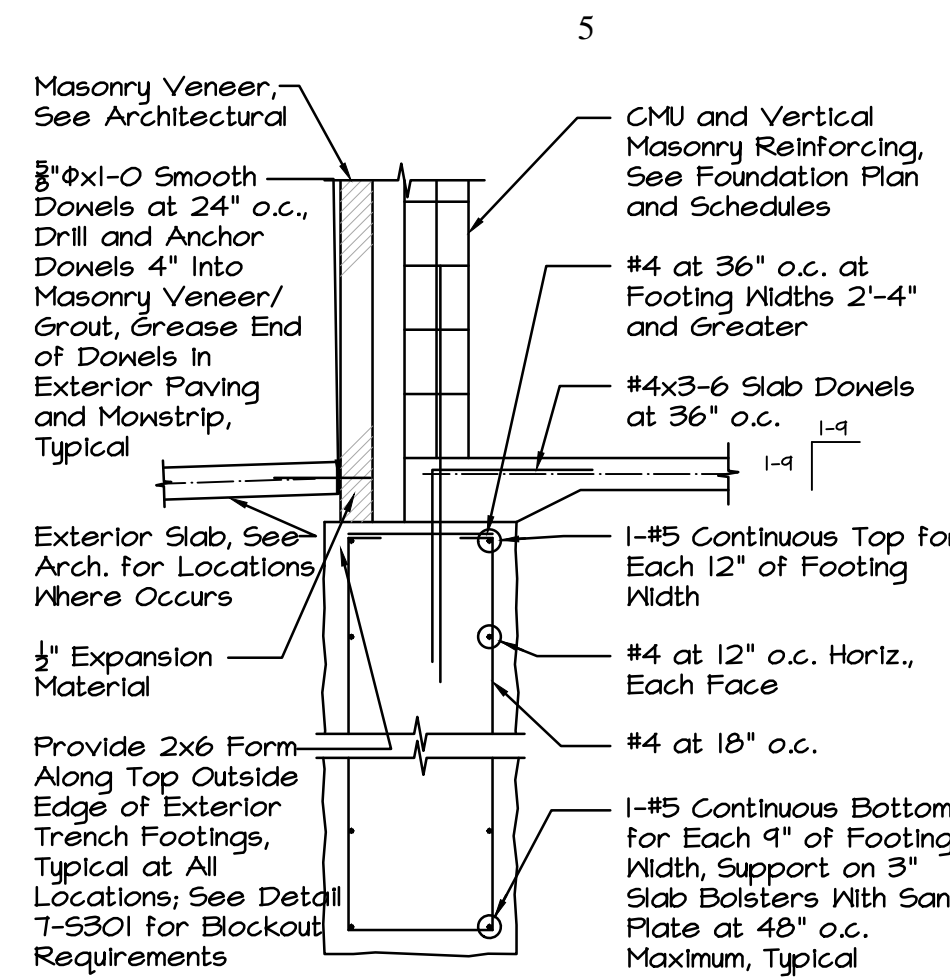


Project Number: 16036
Date: 11/28/17

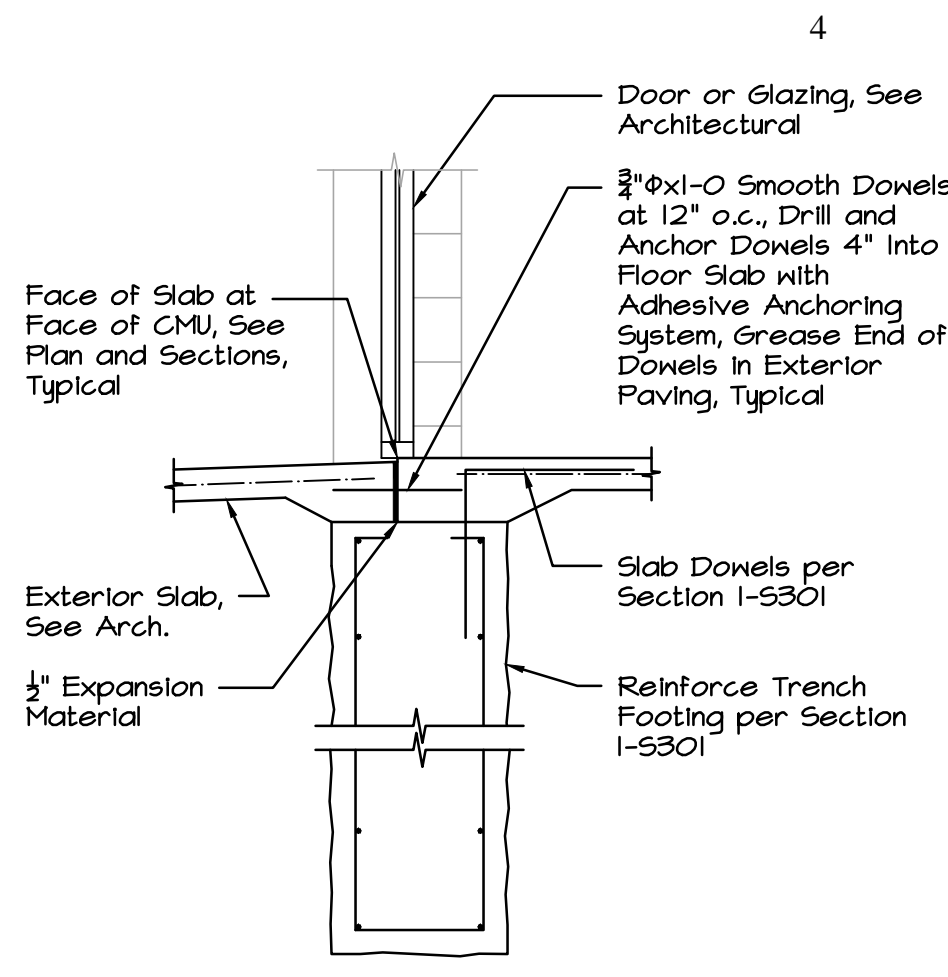
Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION
Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

SCHEDULES AND DETAILS

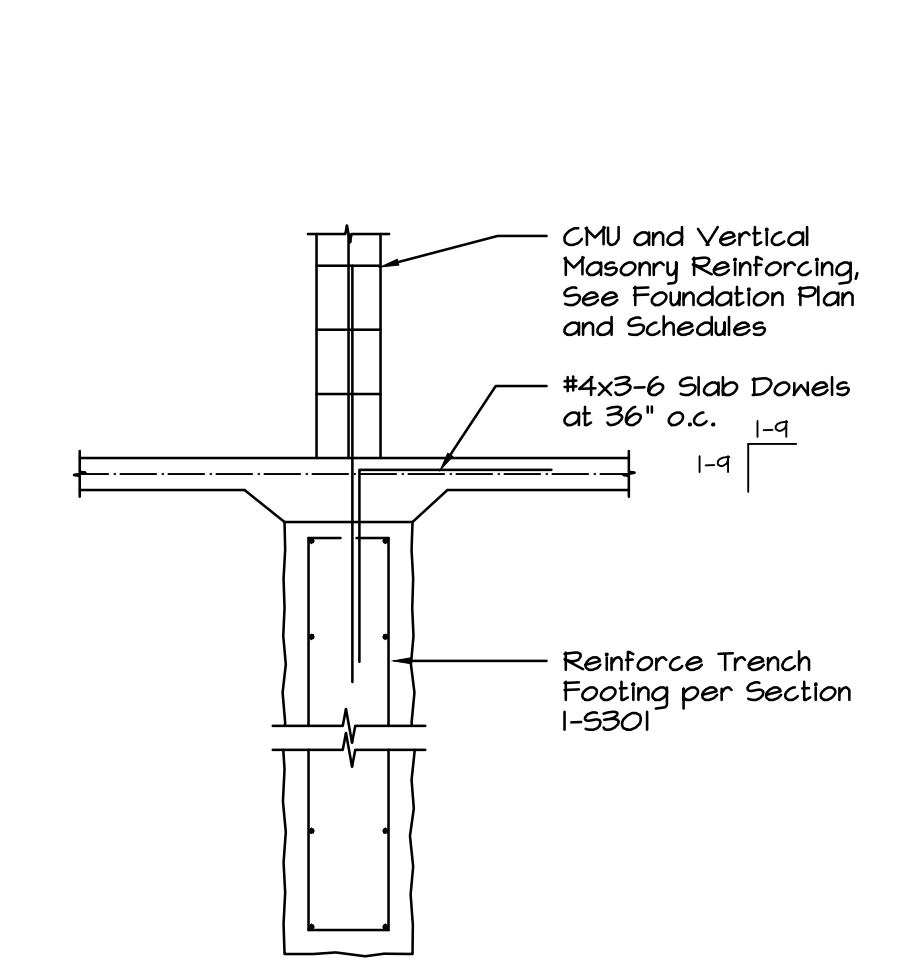
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S203
Of:



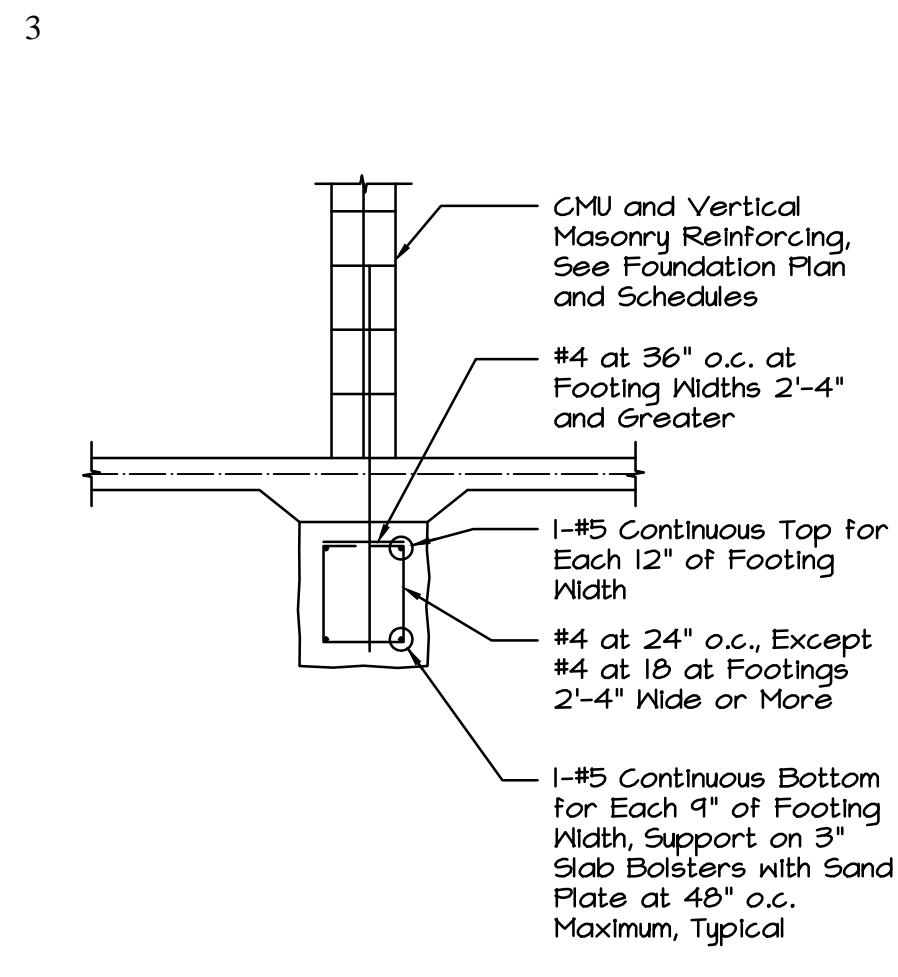
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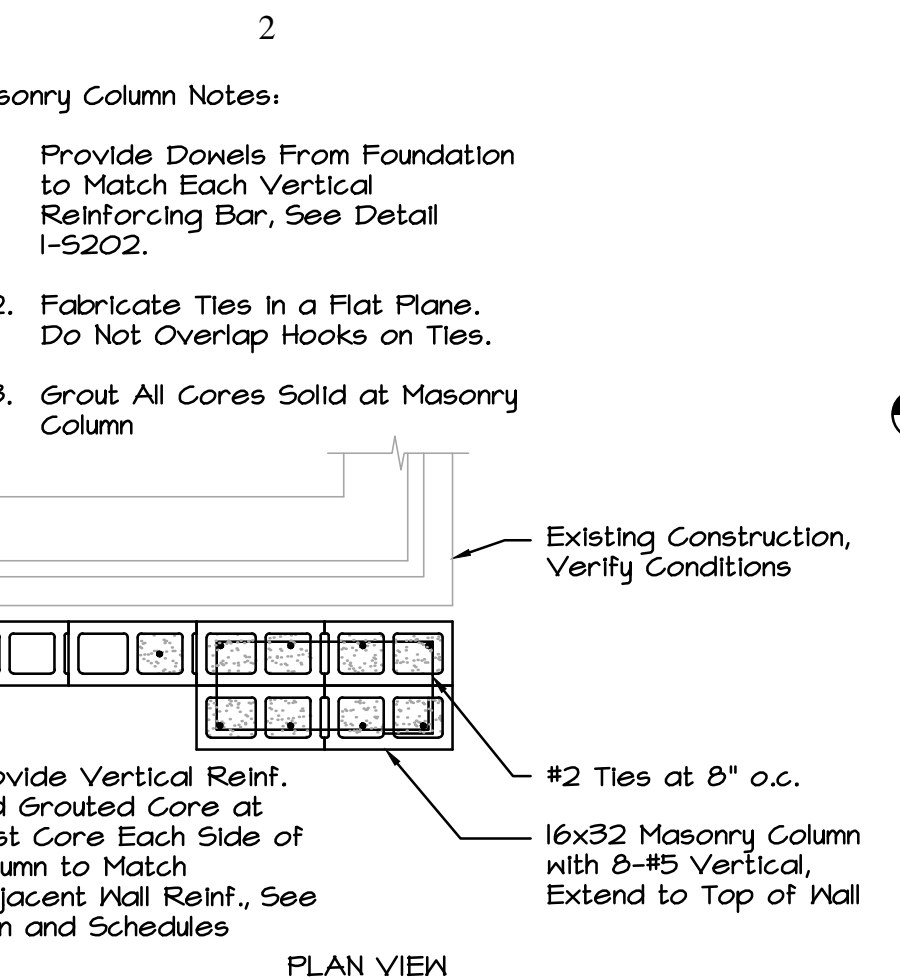
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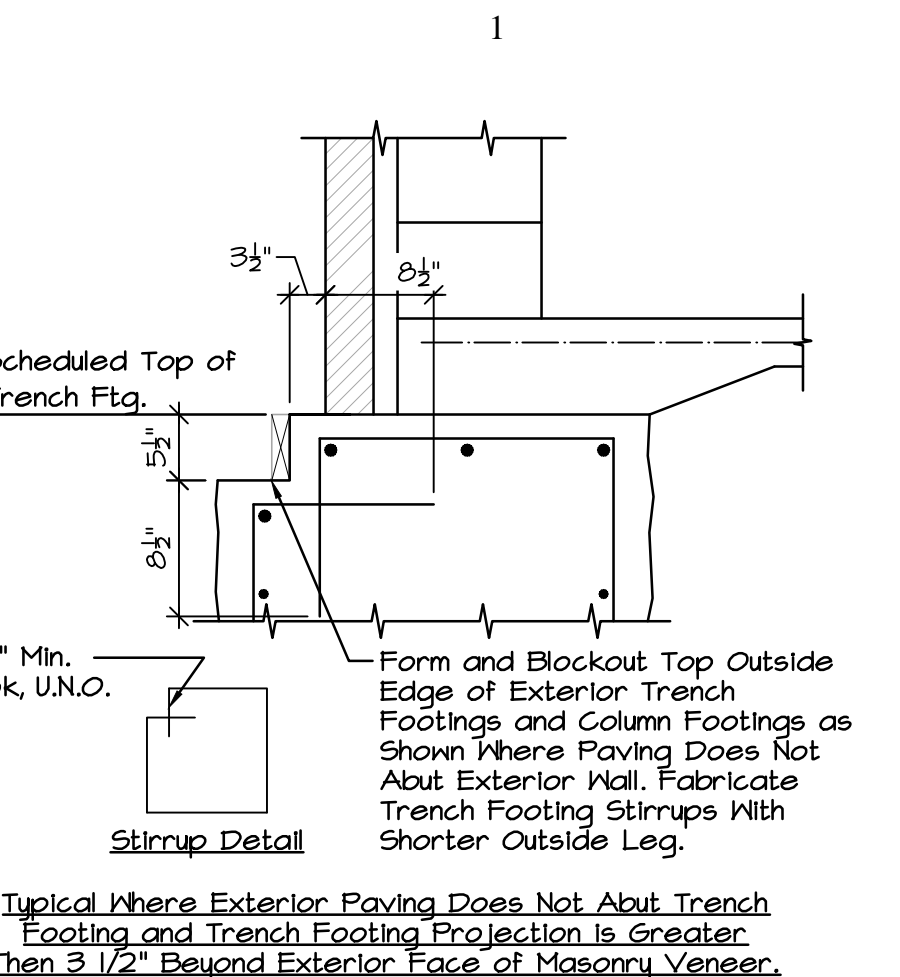
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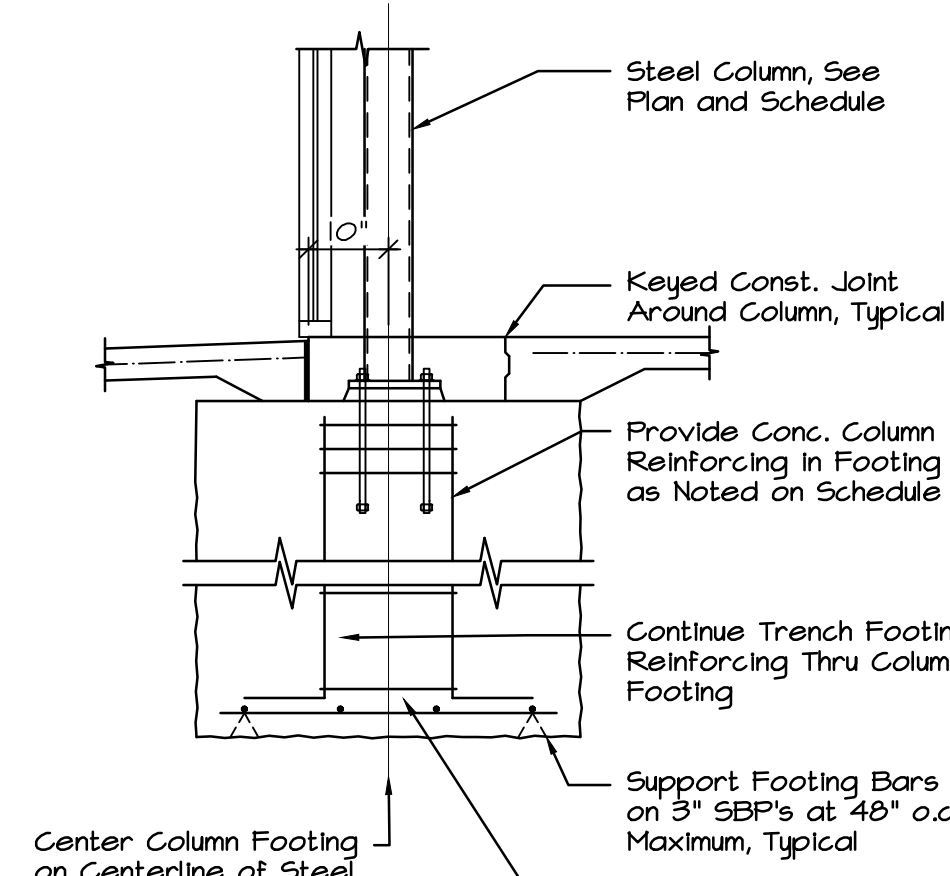
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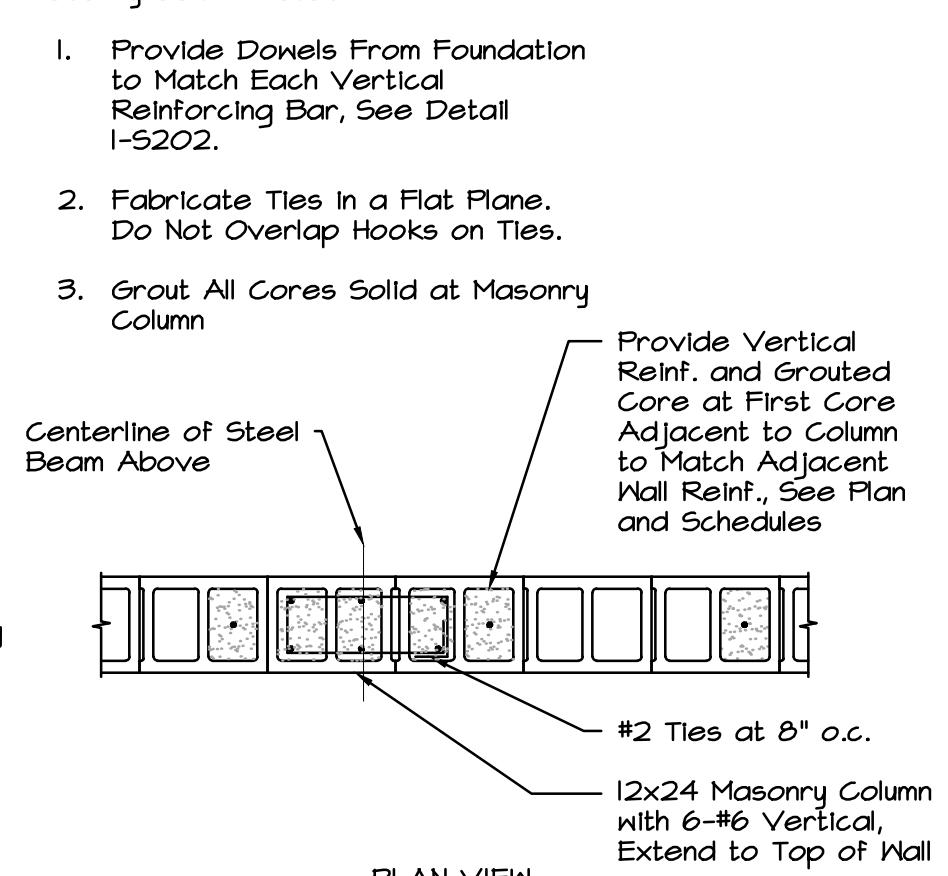
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1/2" = 1'-0"



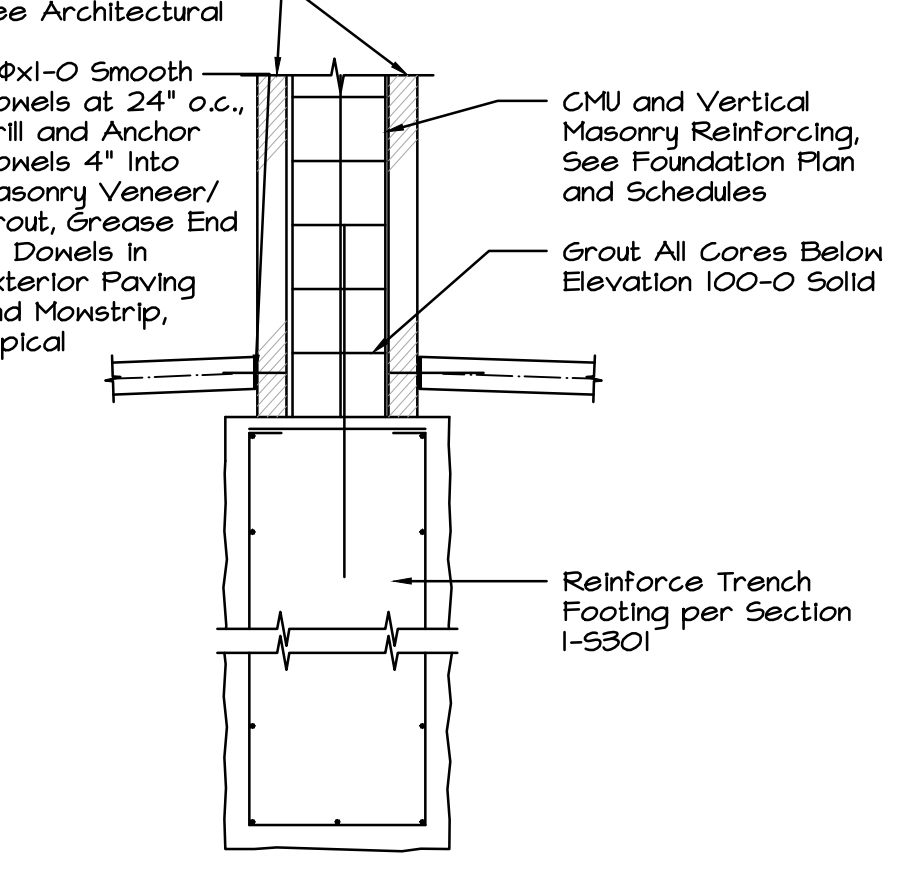
6 TYP. TRENCH FTG. BLOCKOUT
No Scale



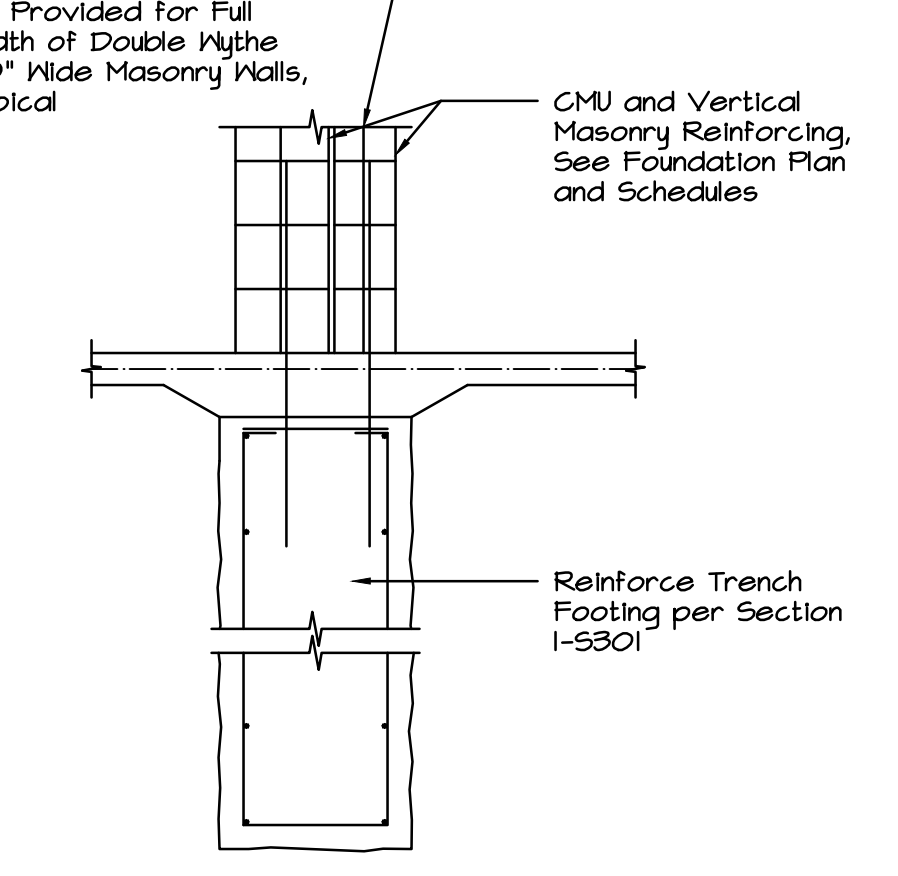
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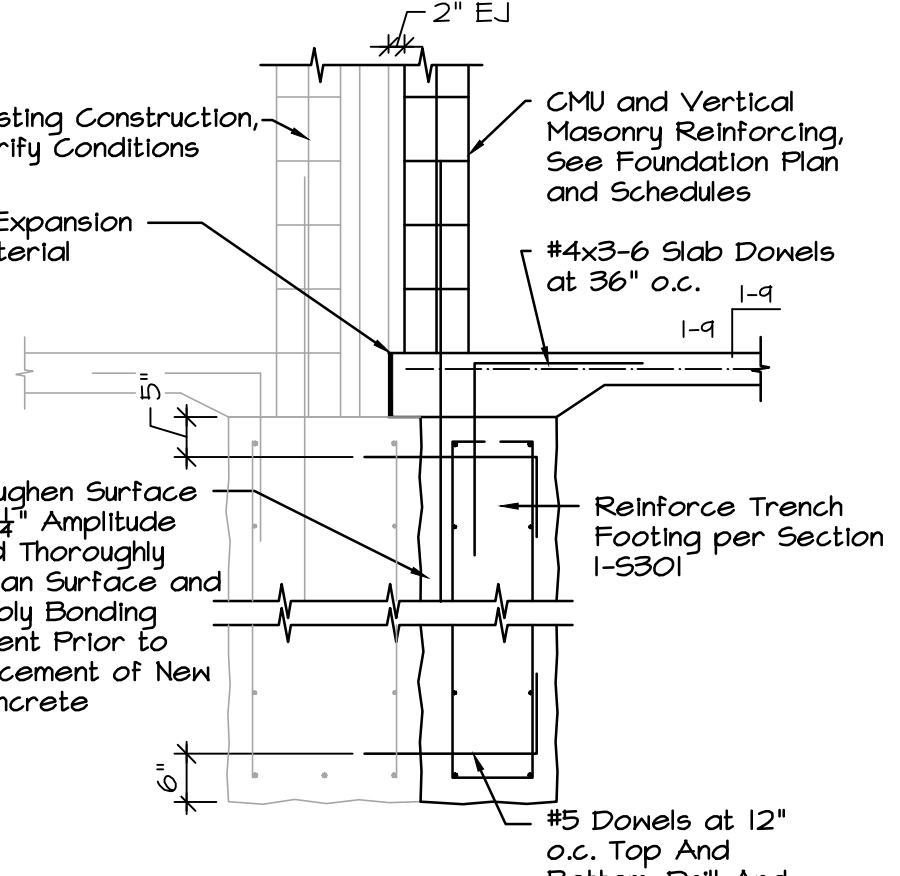
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1/2" = 1'-0"



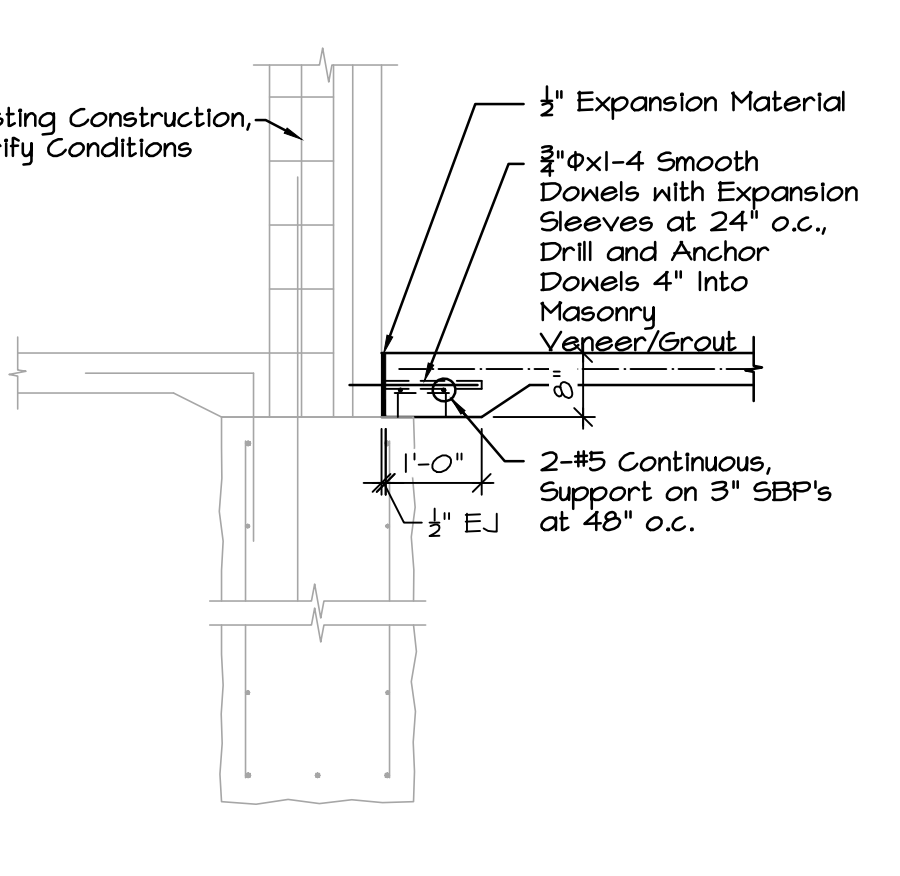
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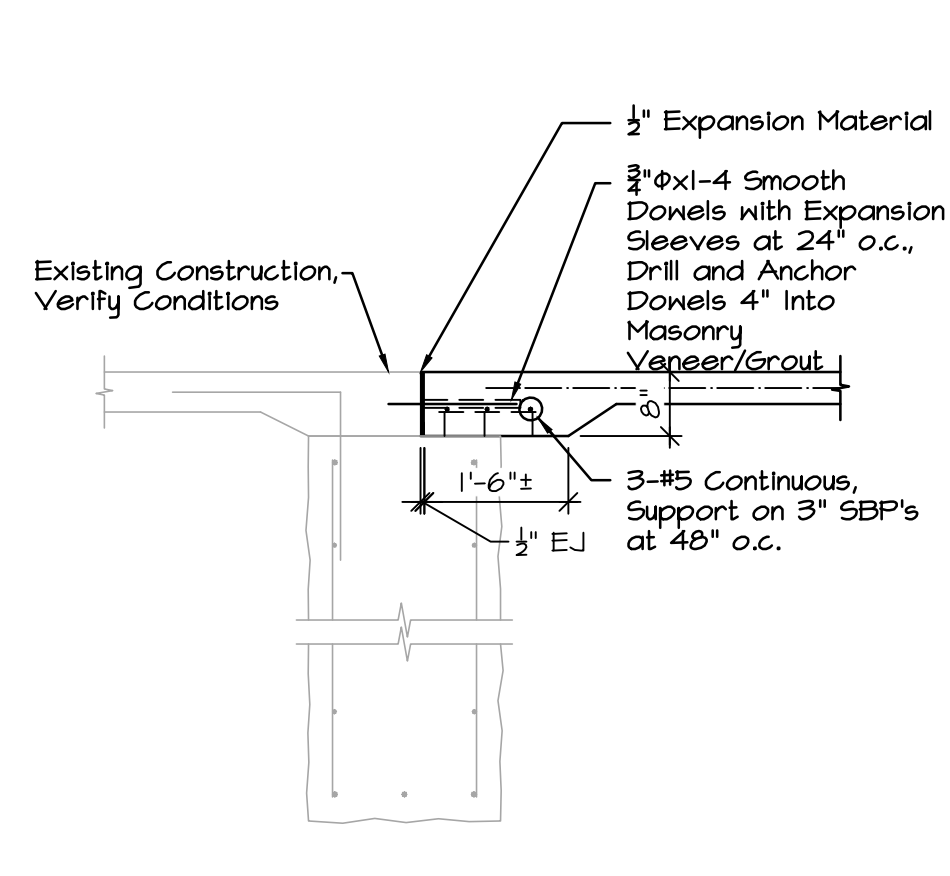
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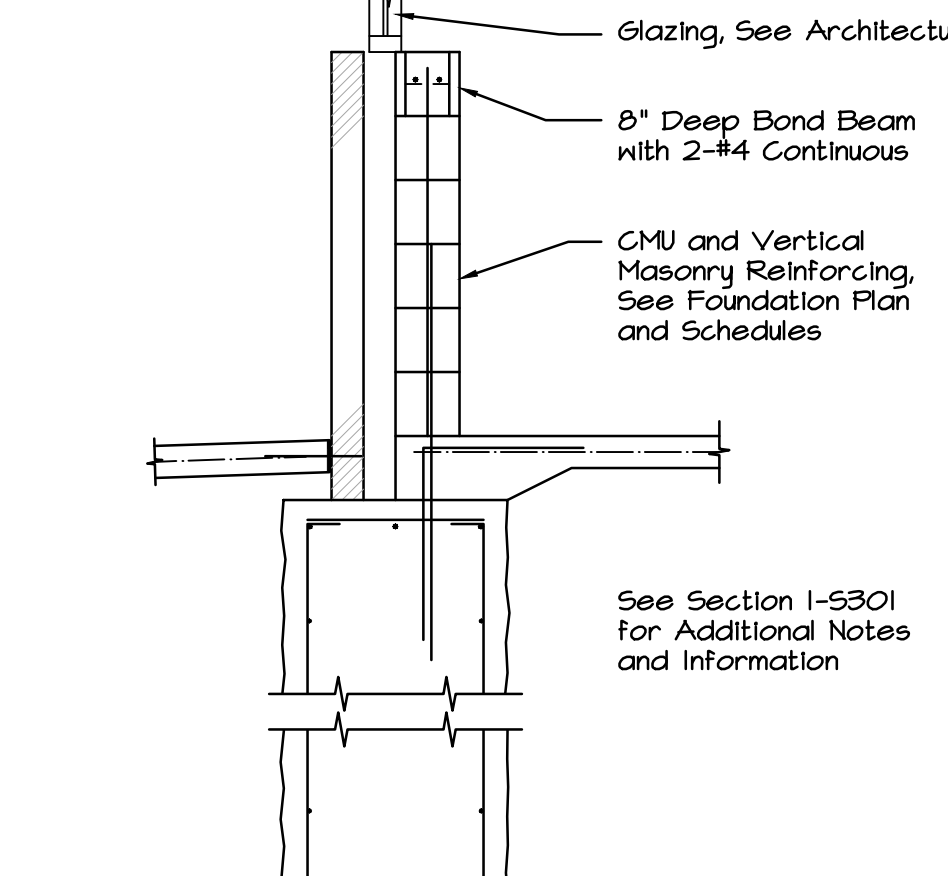
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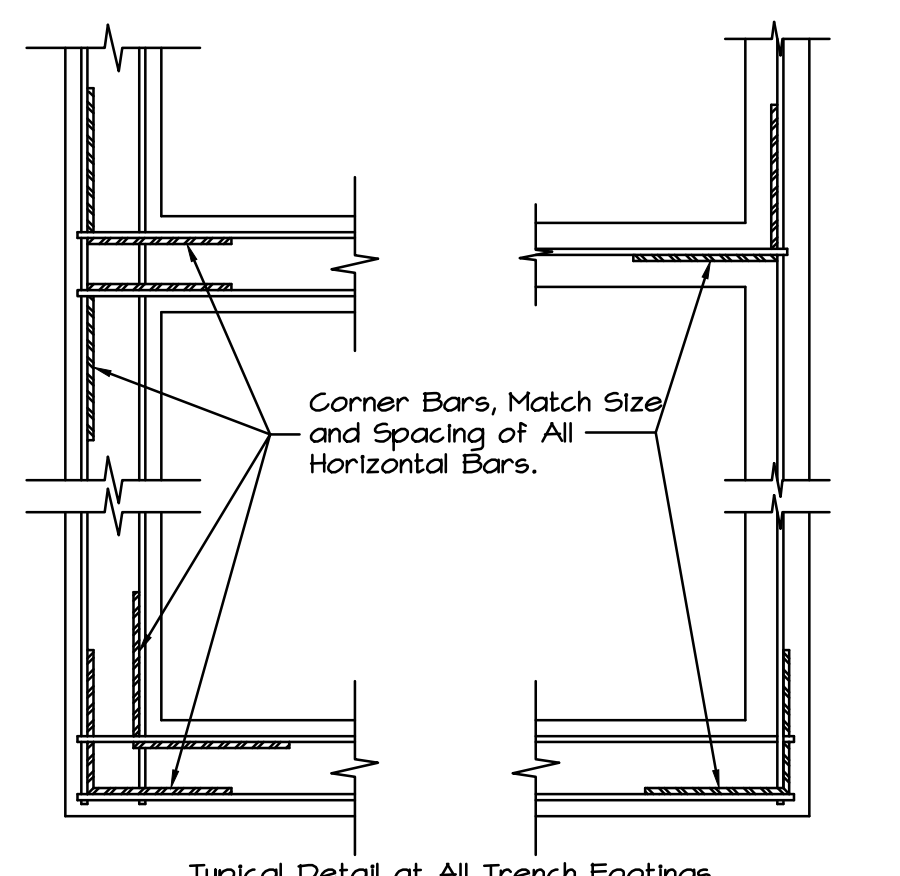
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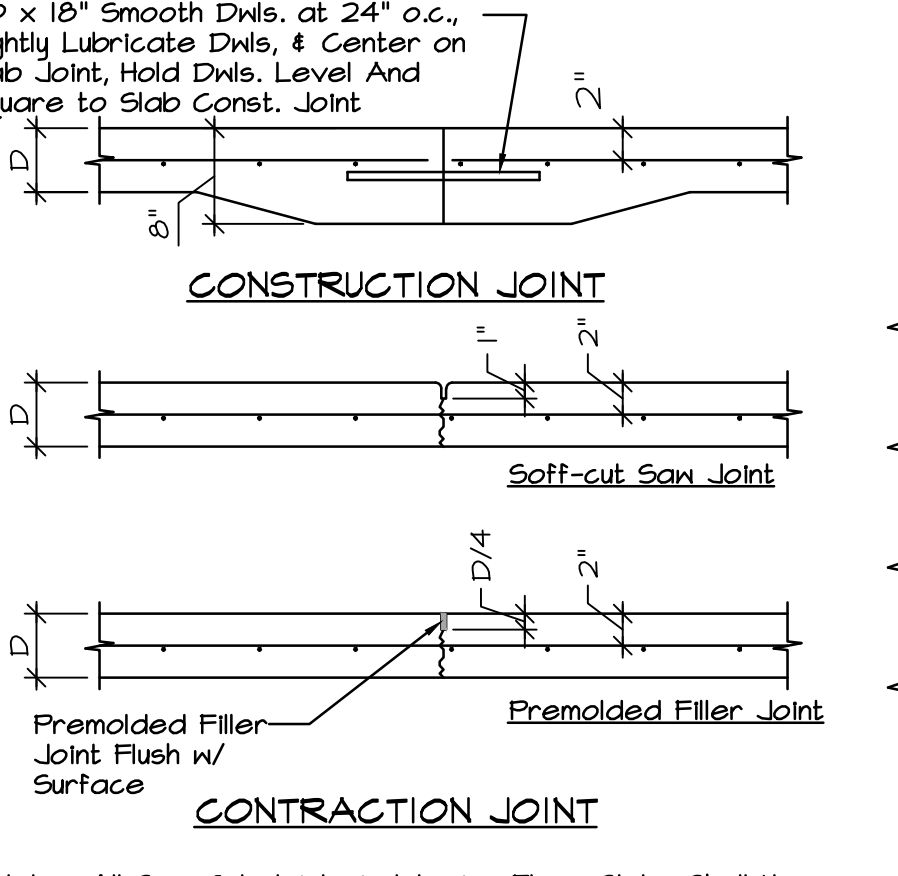
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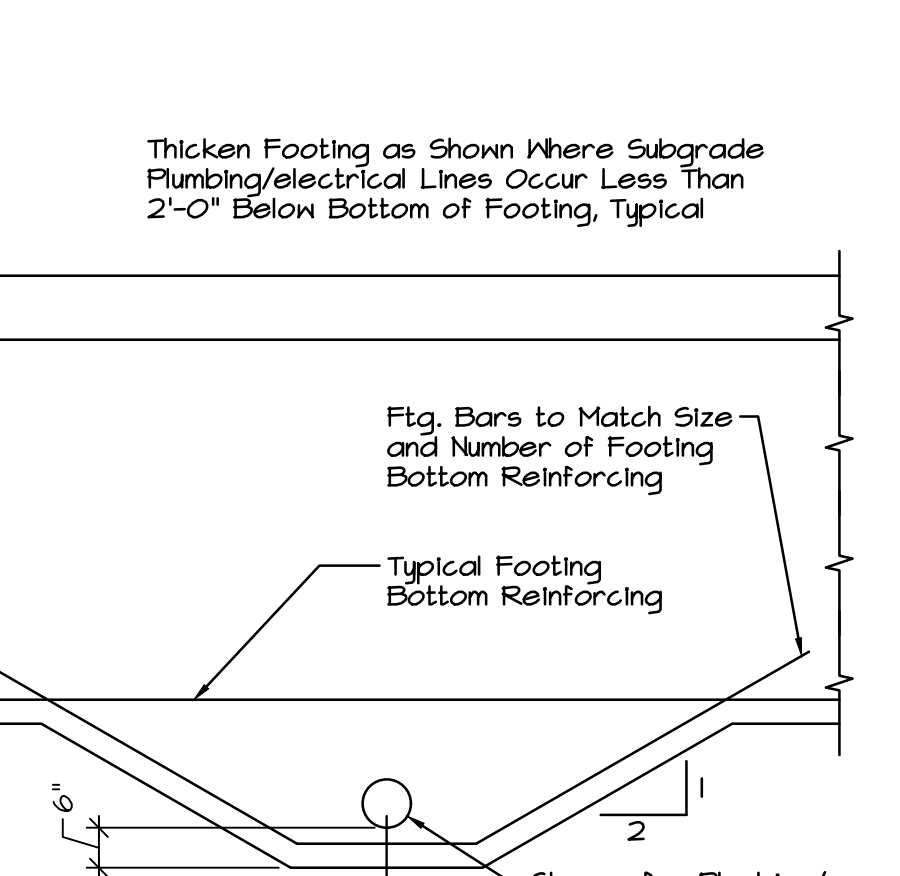
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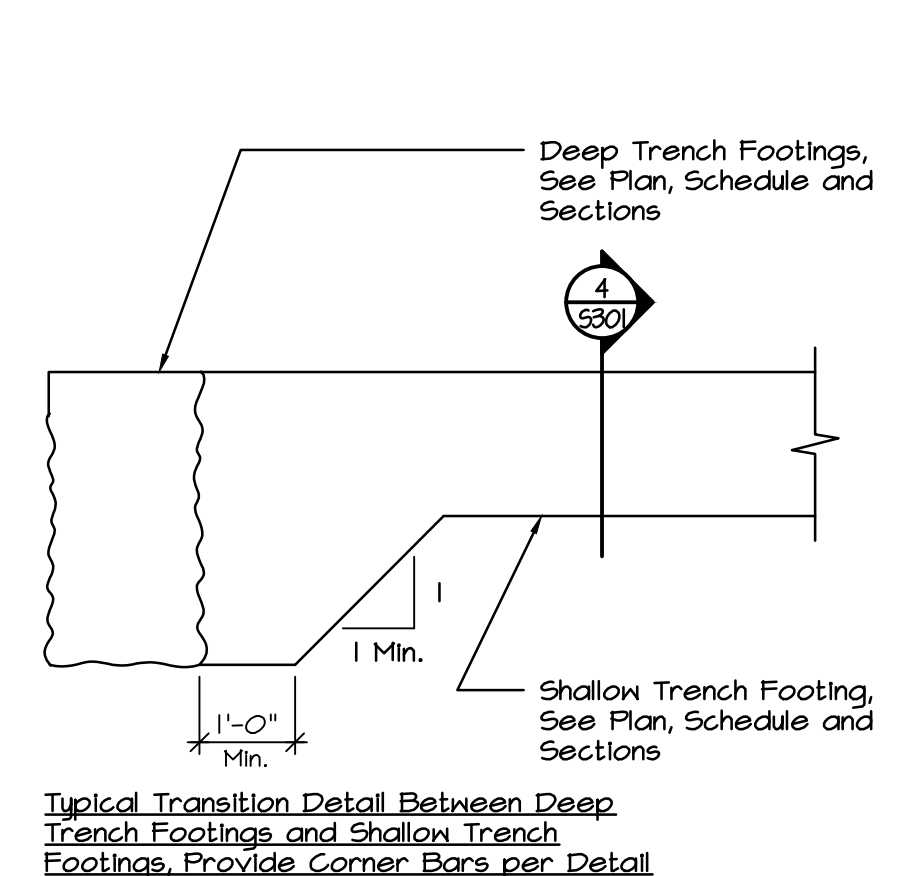
15 CORNER BAR DETAIL
No Scale



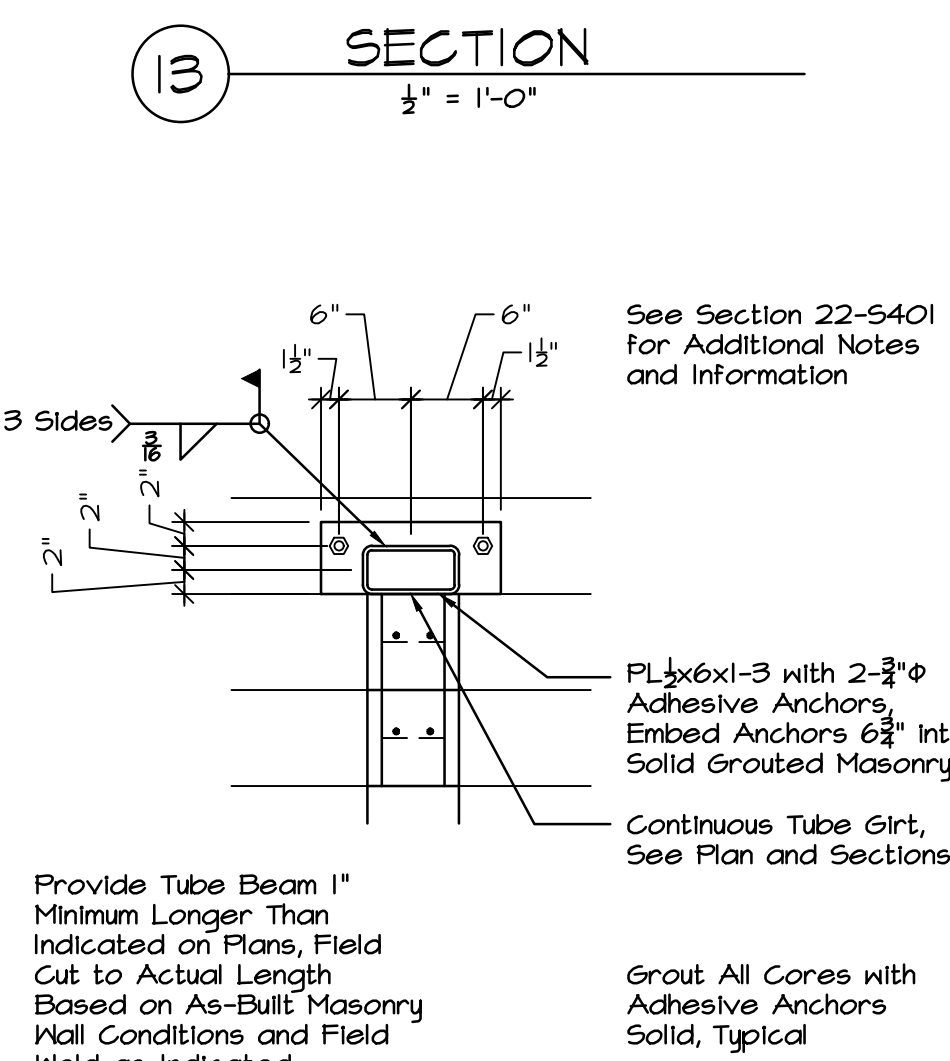
16 TYP. SLAB JOINT DETAILS
No Scale



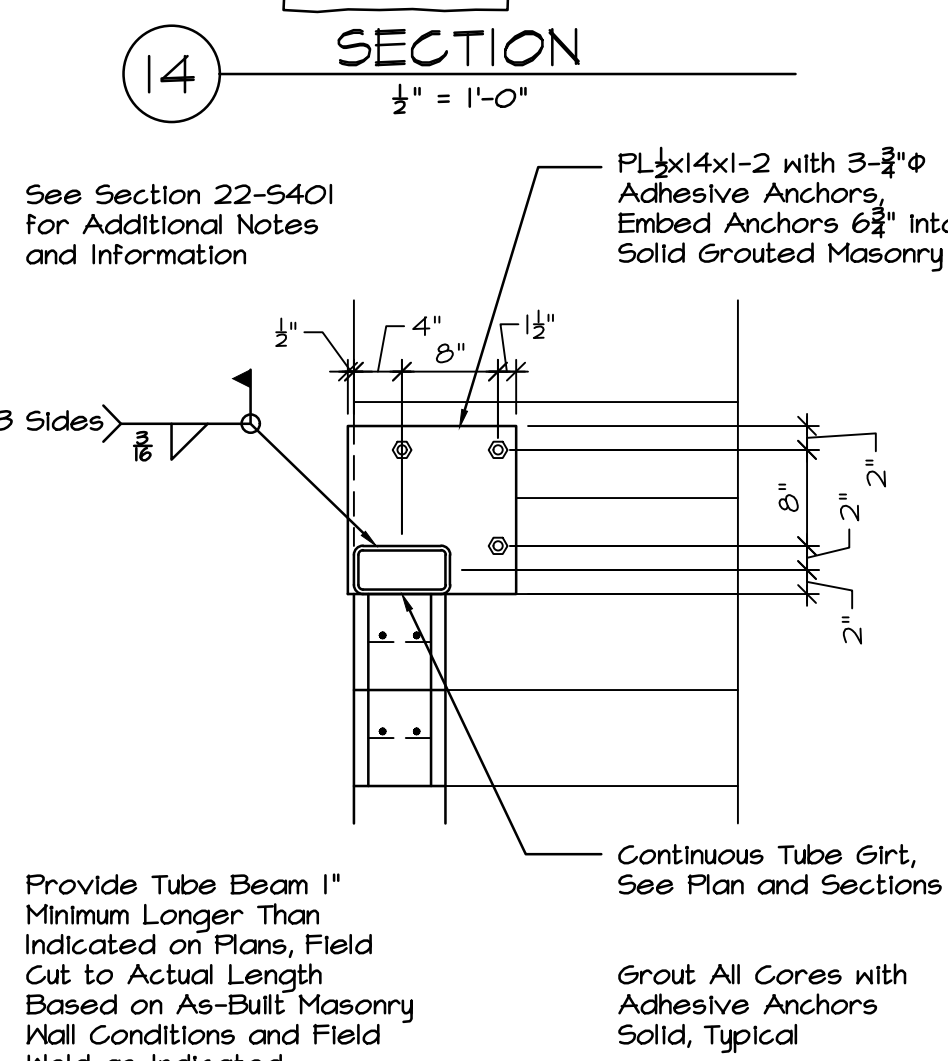
17 TYP. DETAIL
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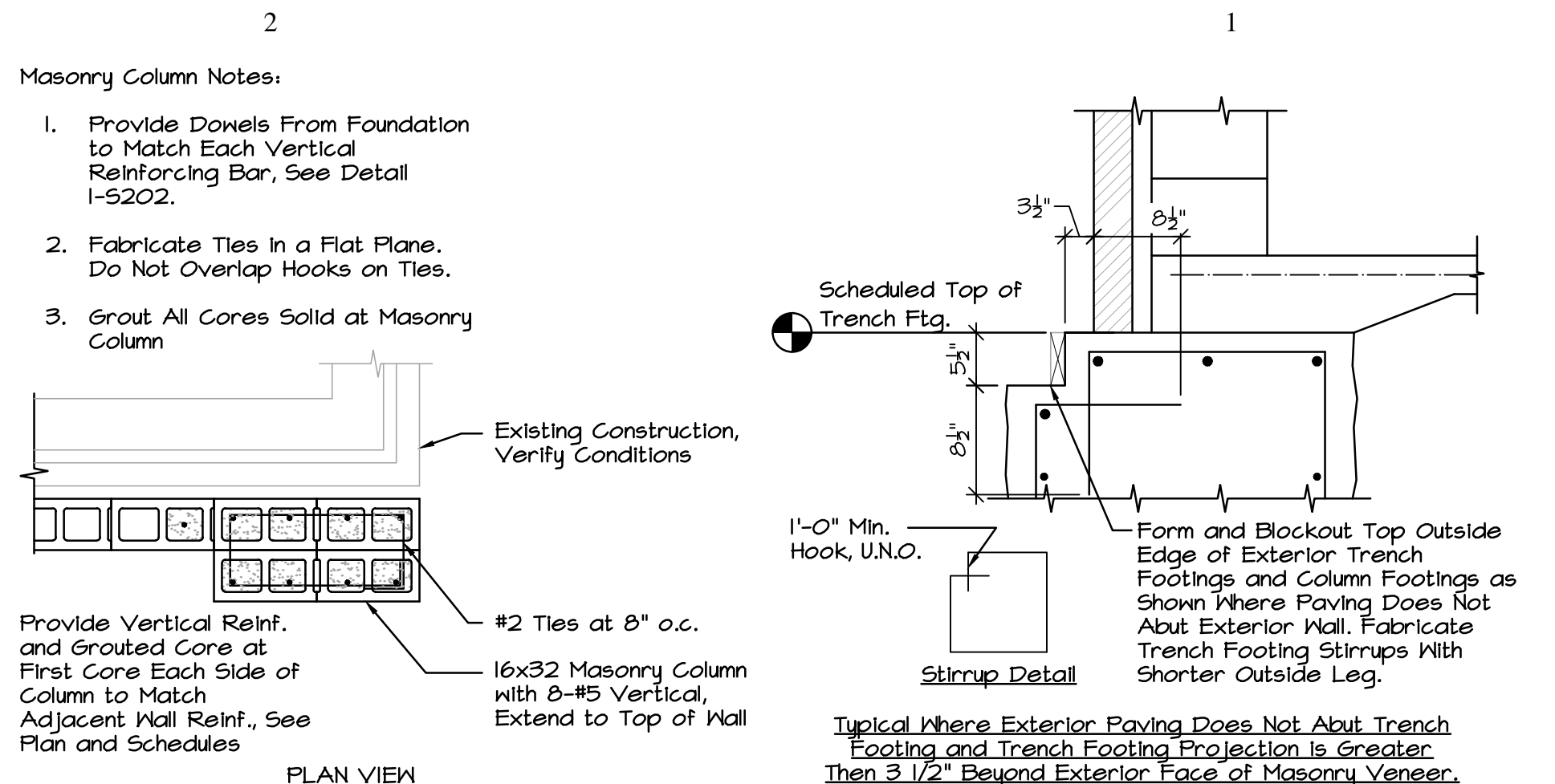
18 DETAIL
No Scale



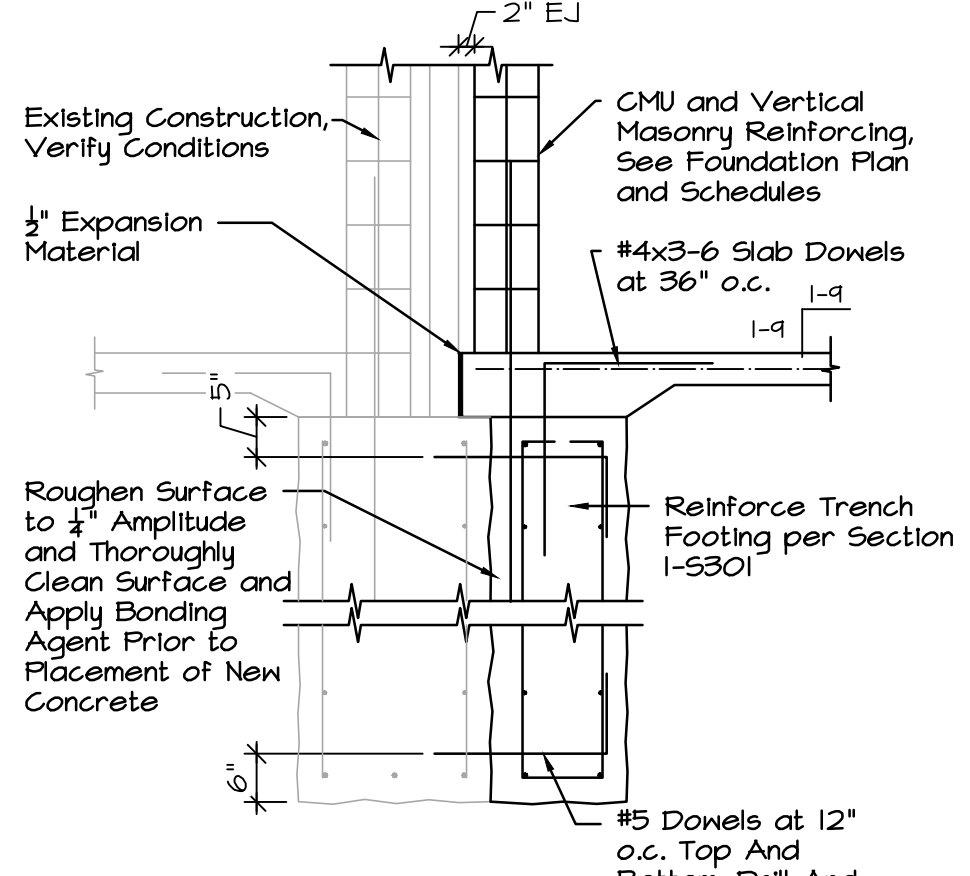
19 DETAIL
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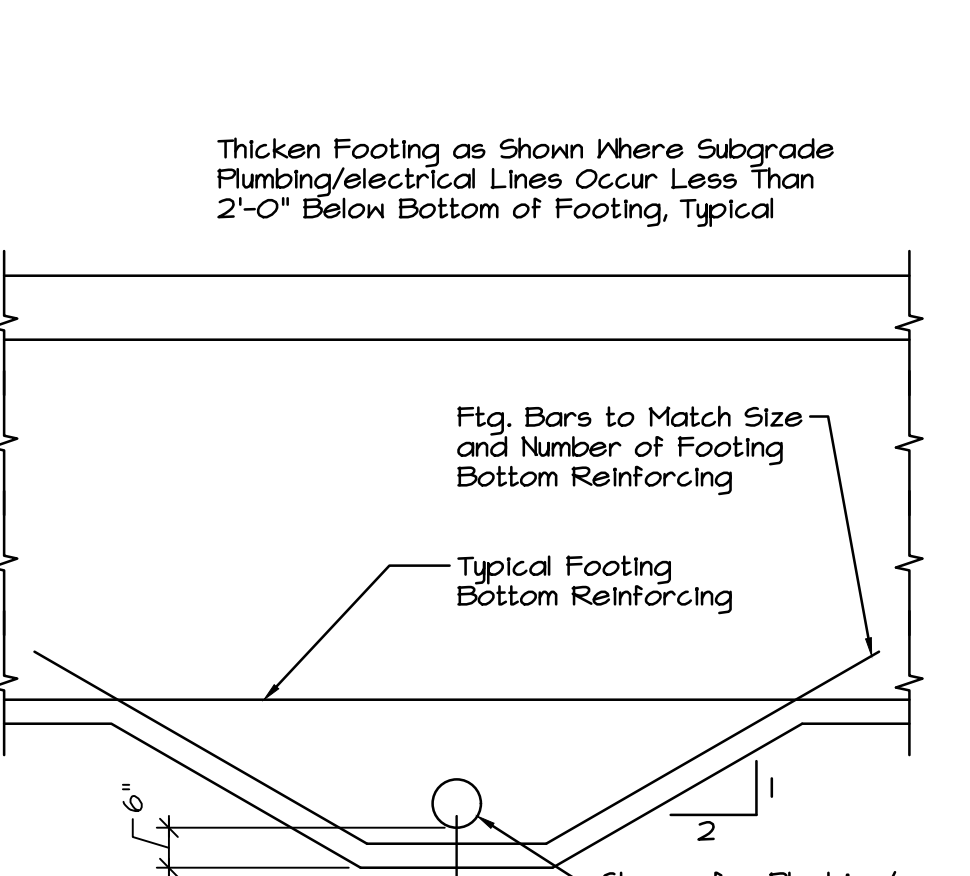
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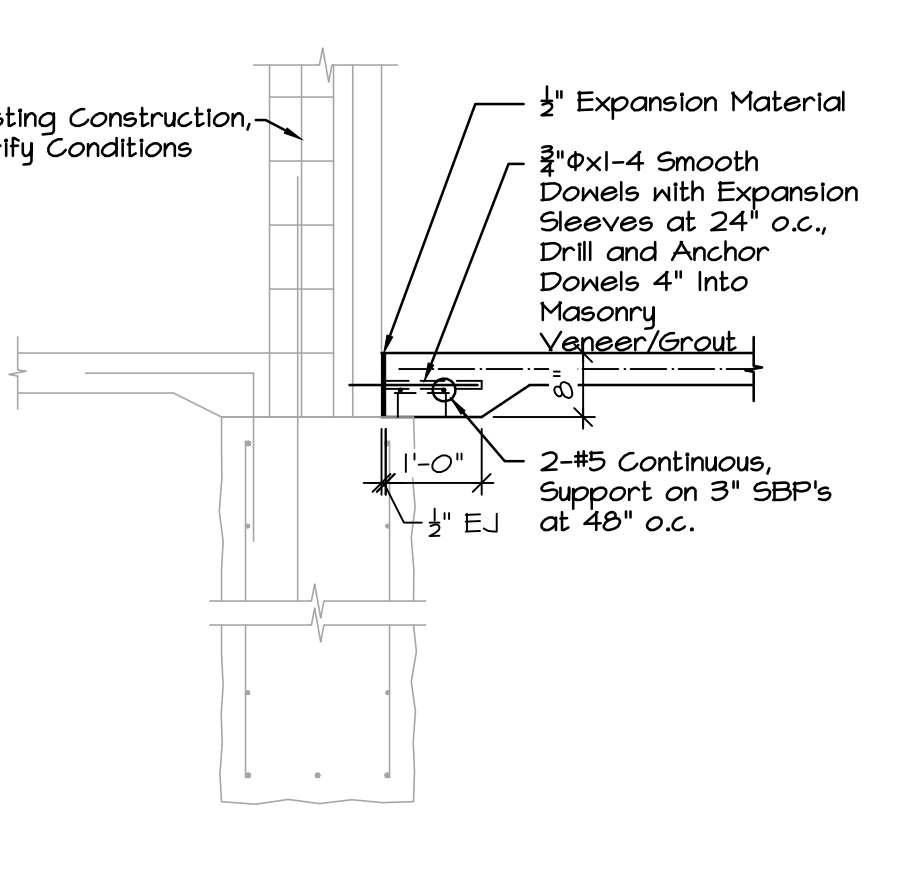
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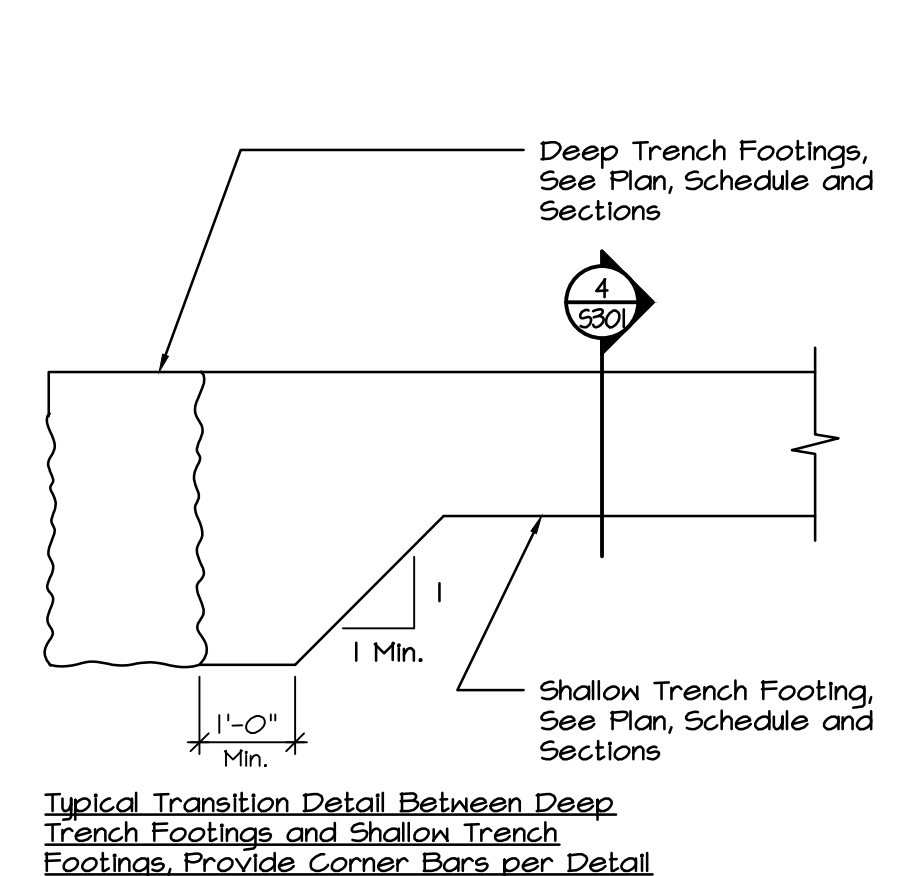
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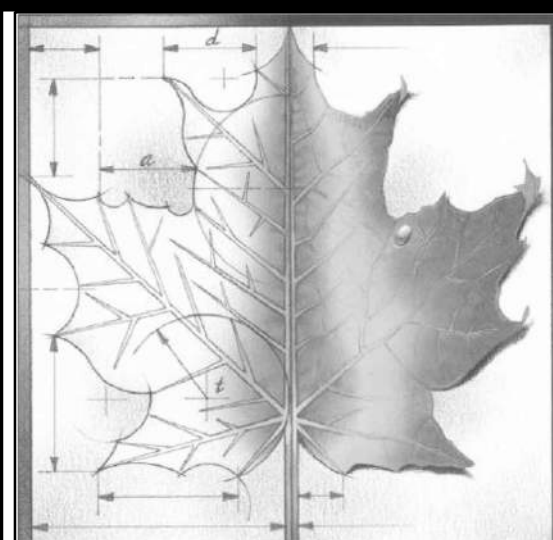
17 TYP. DETAIL
No Scale



12 SECTION
1/2" = 1'-0"



18 DETAIL
No Scale



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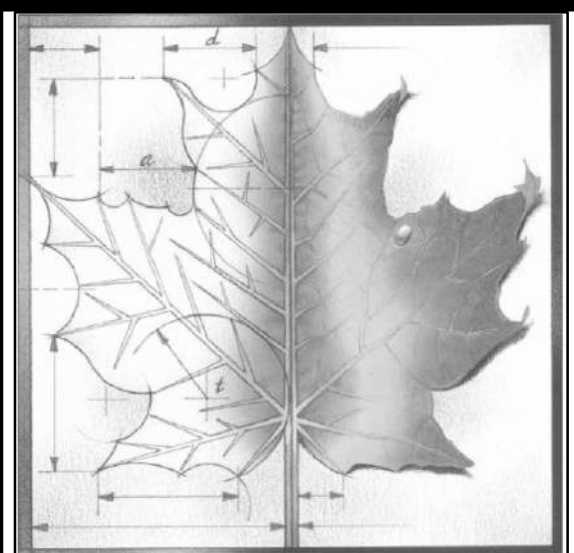
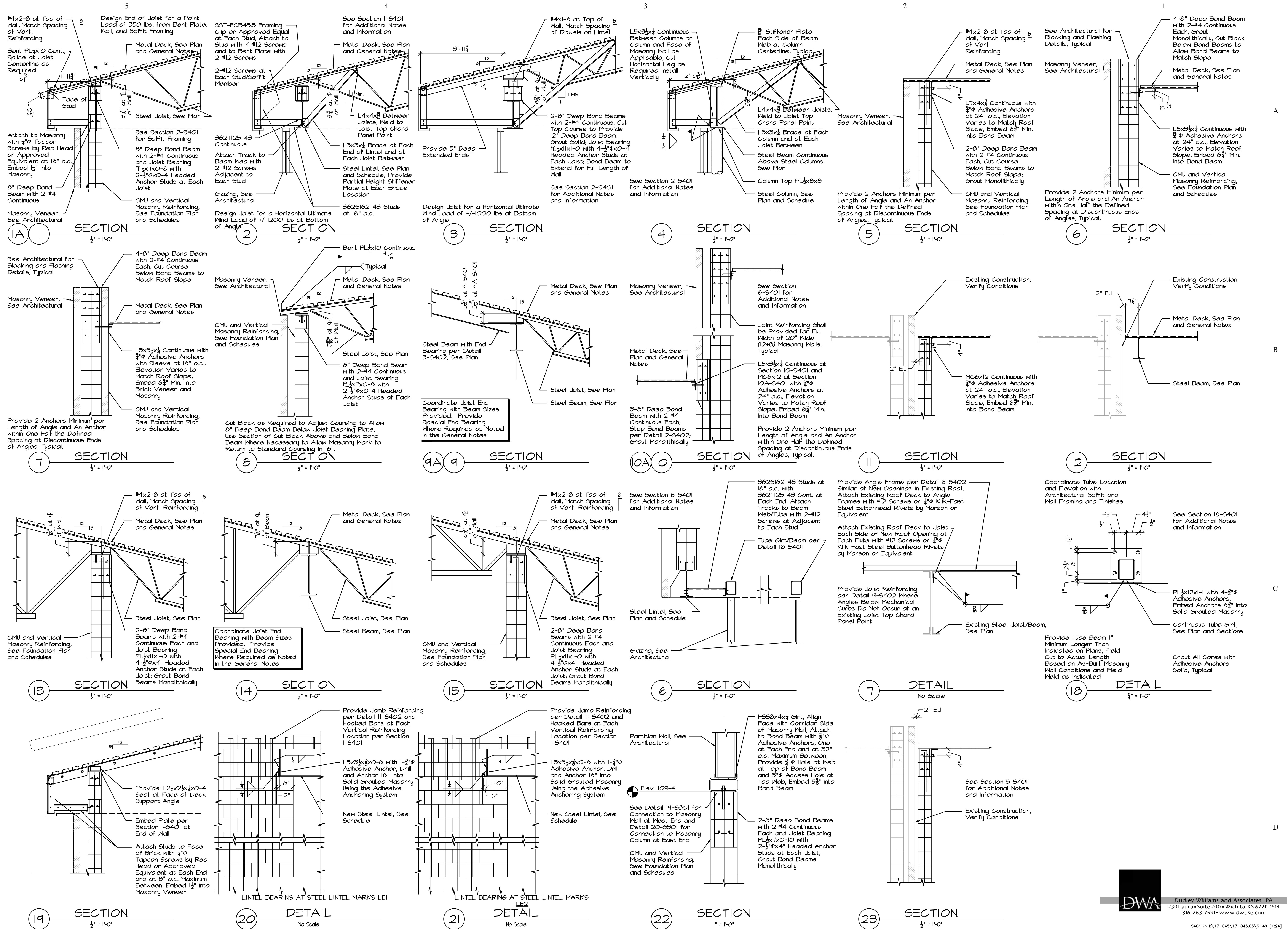
Sheet Title:
FOUNDATION SECTIONS AND DETAILS

Sheet:
S301

OF

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11/28/2017 [DEM]

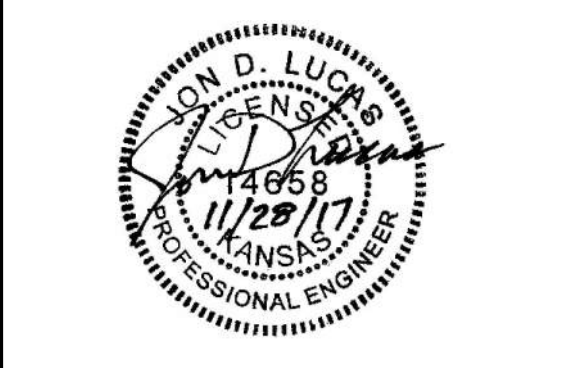


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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

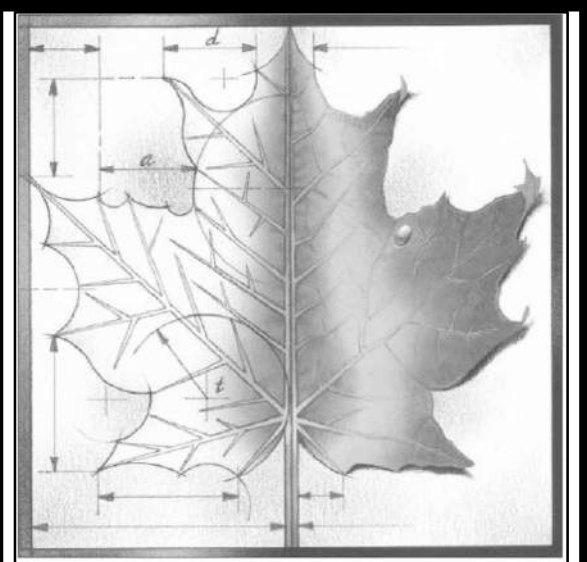
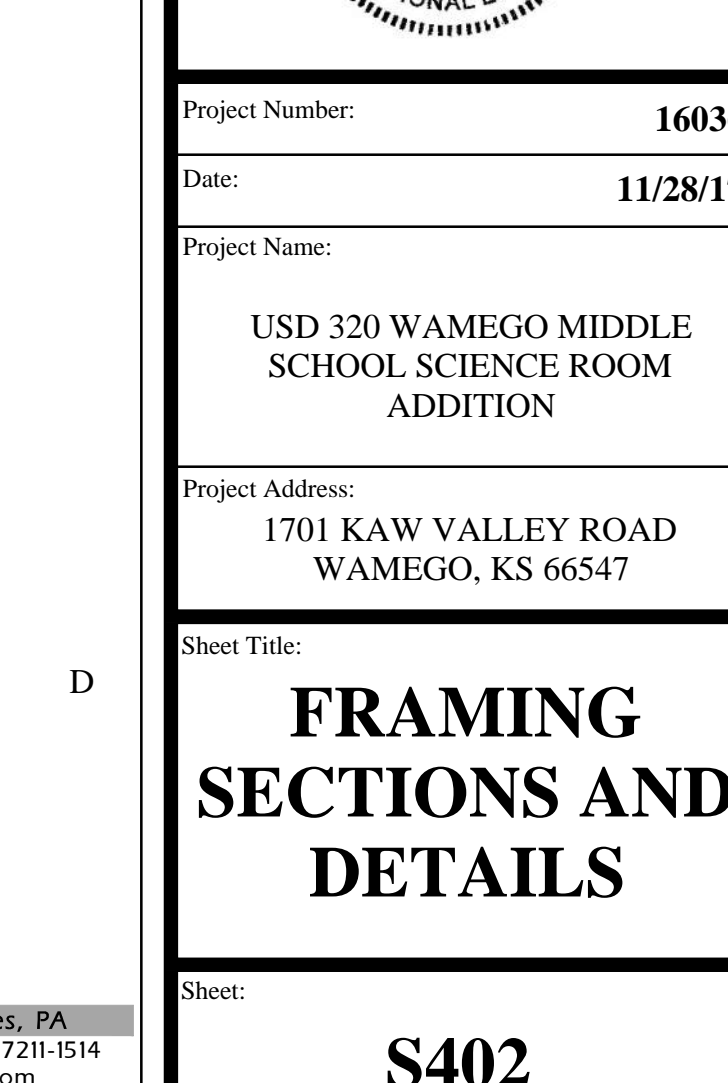
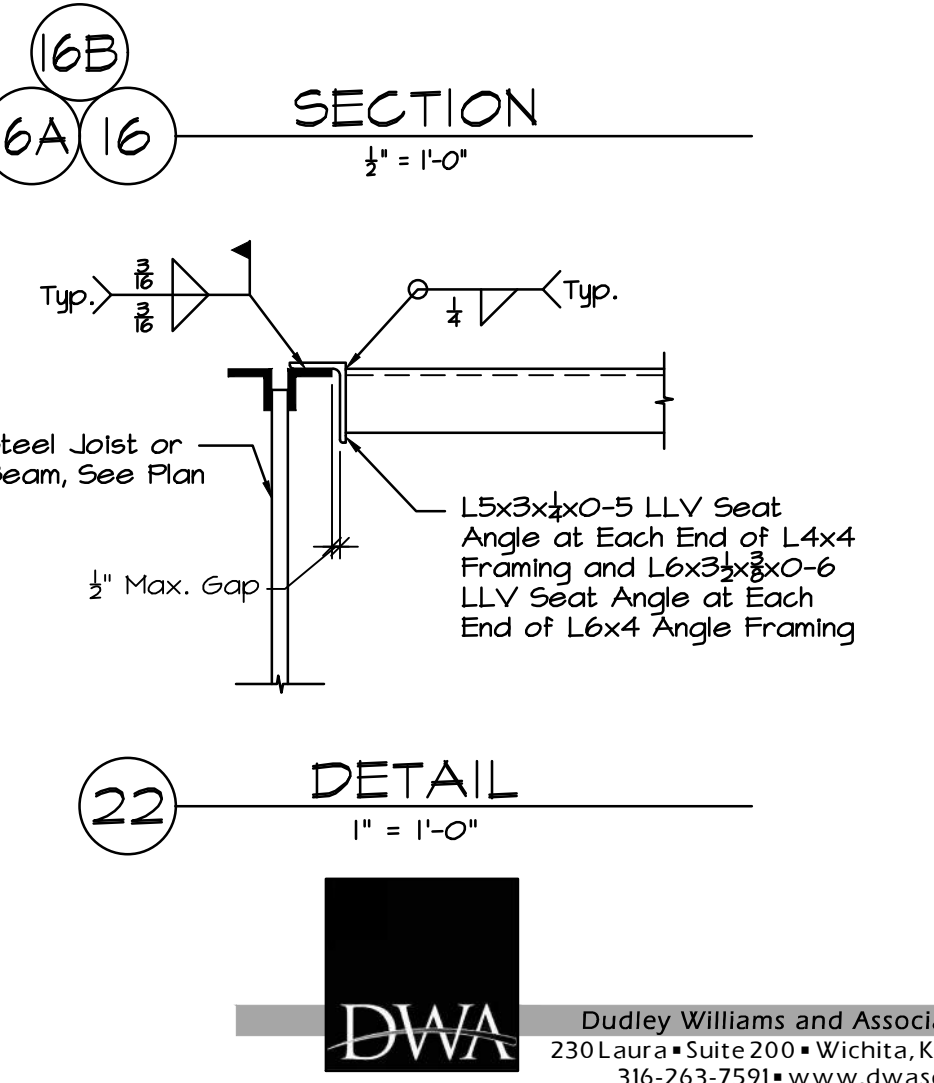
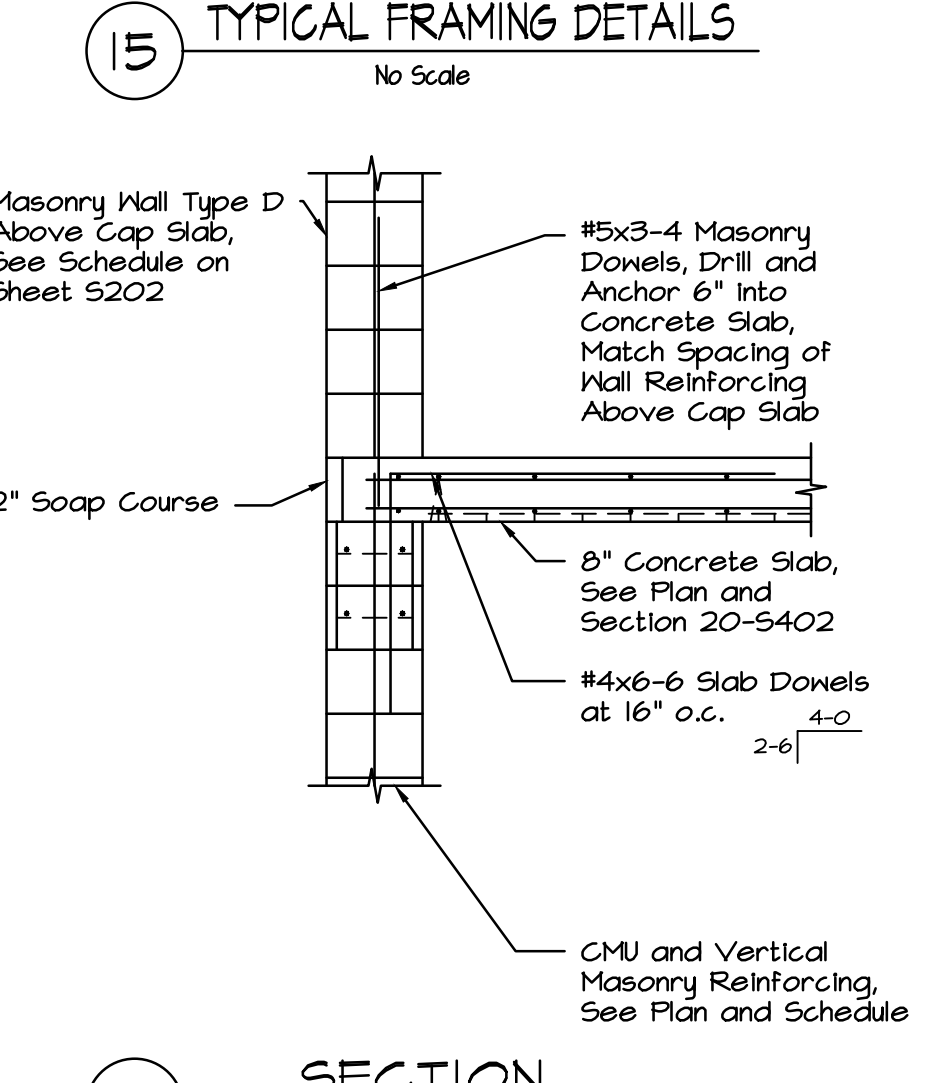
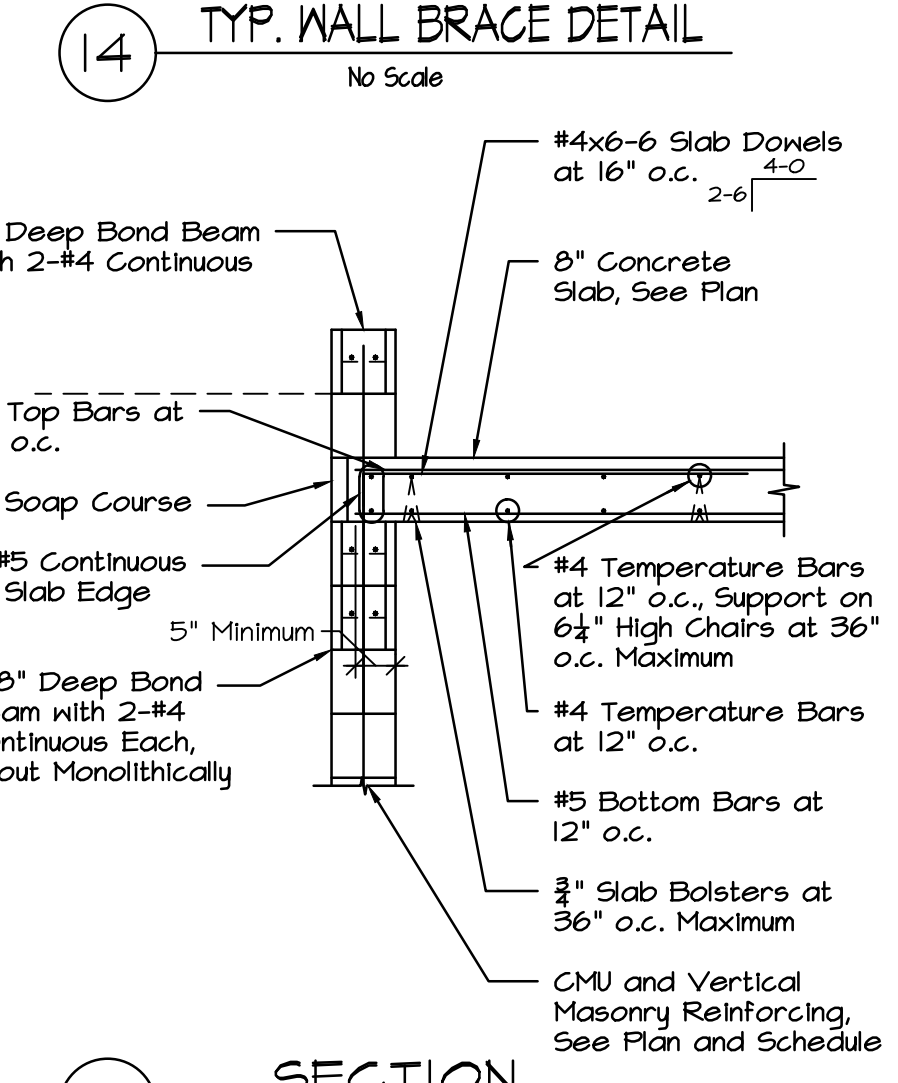
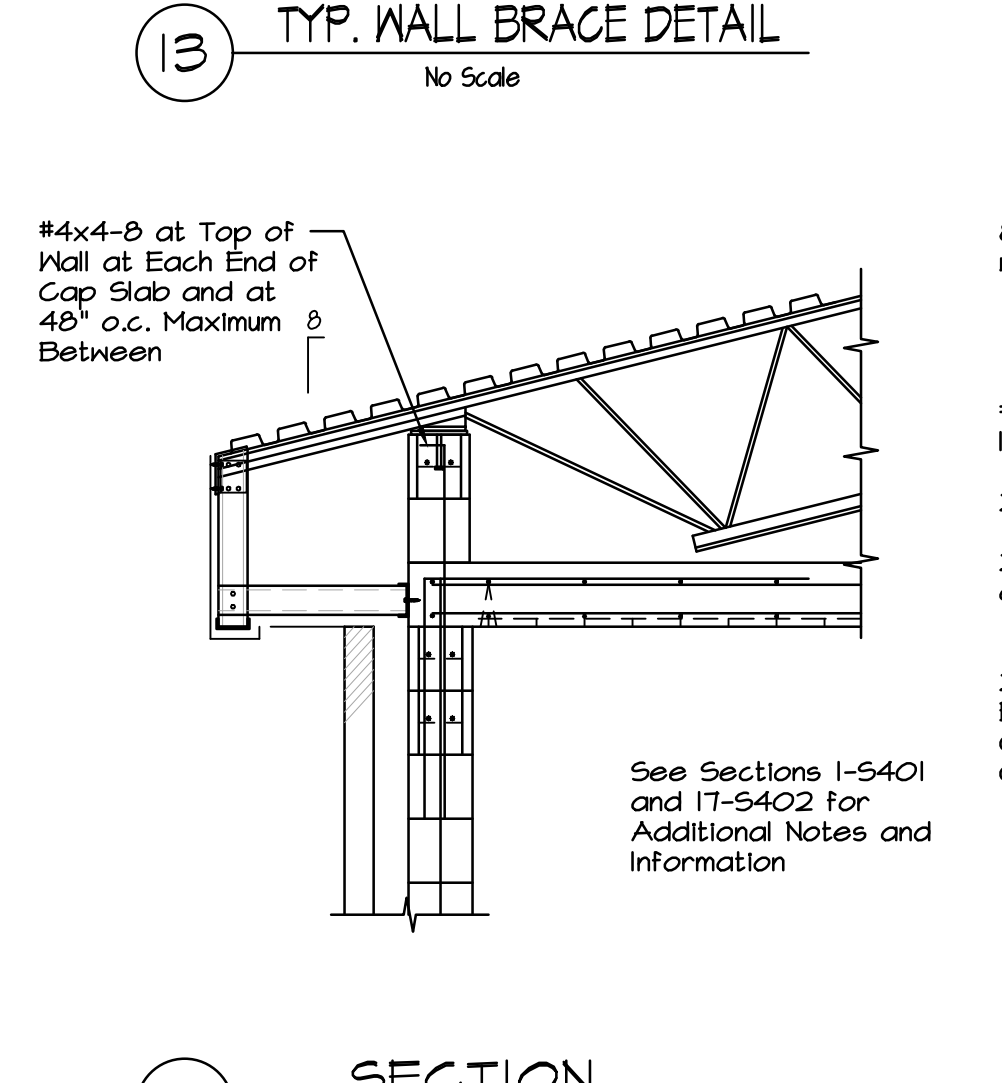
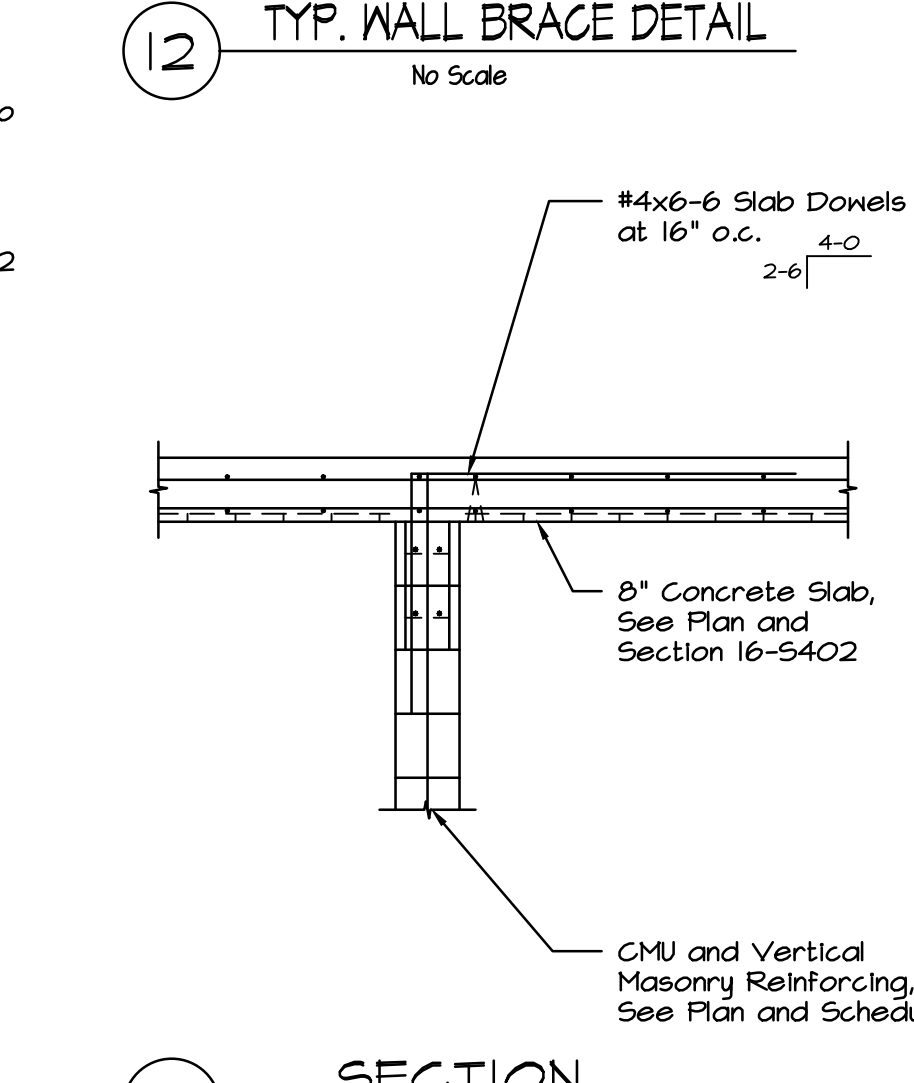
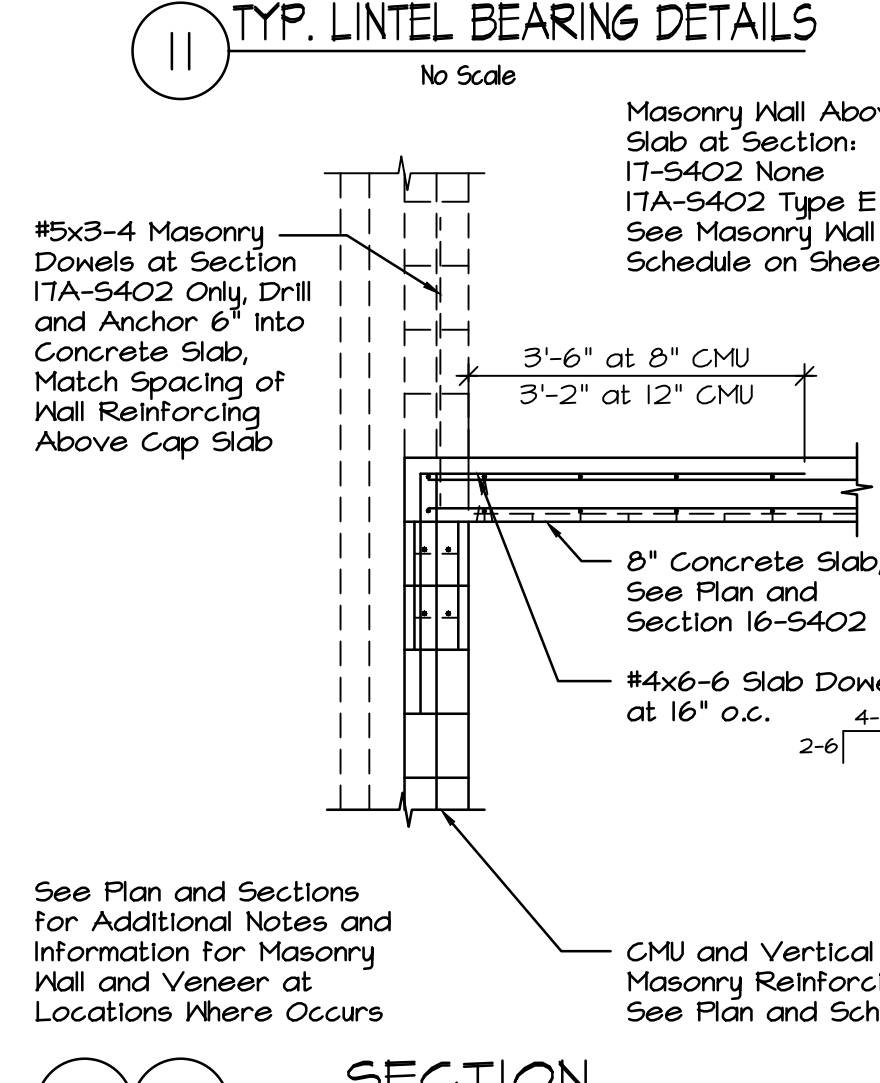
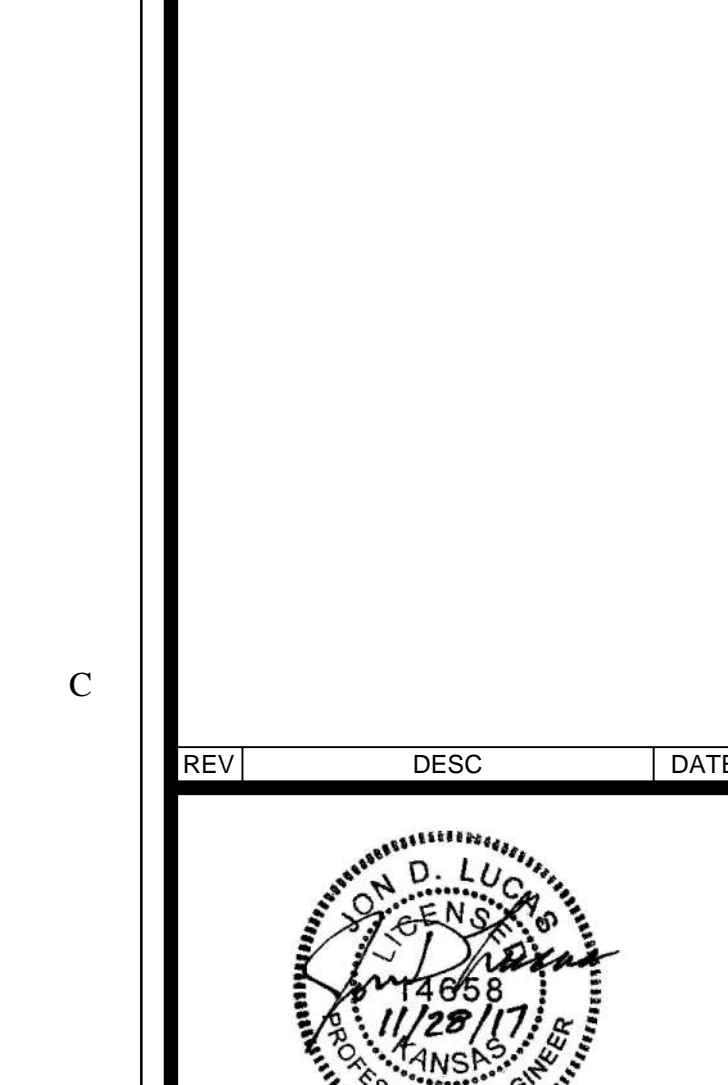
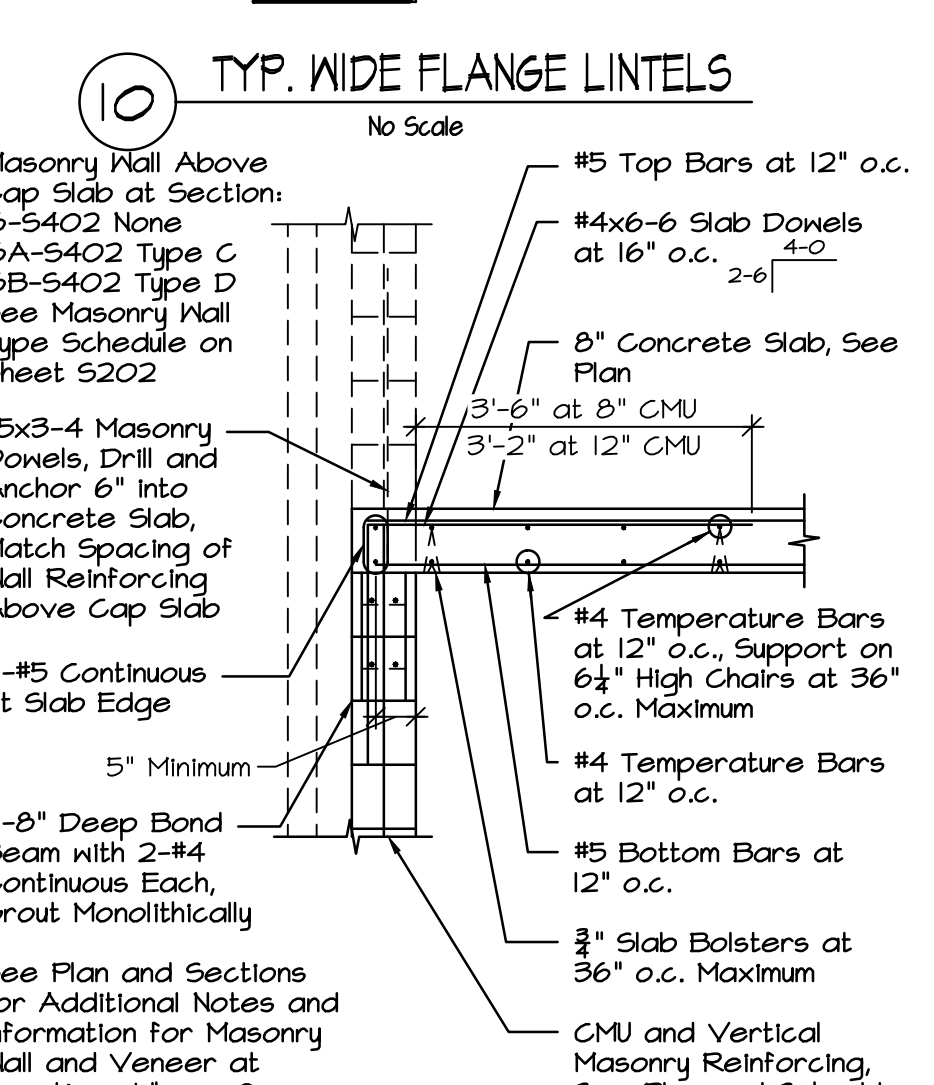
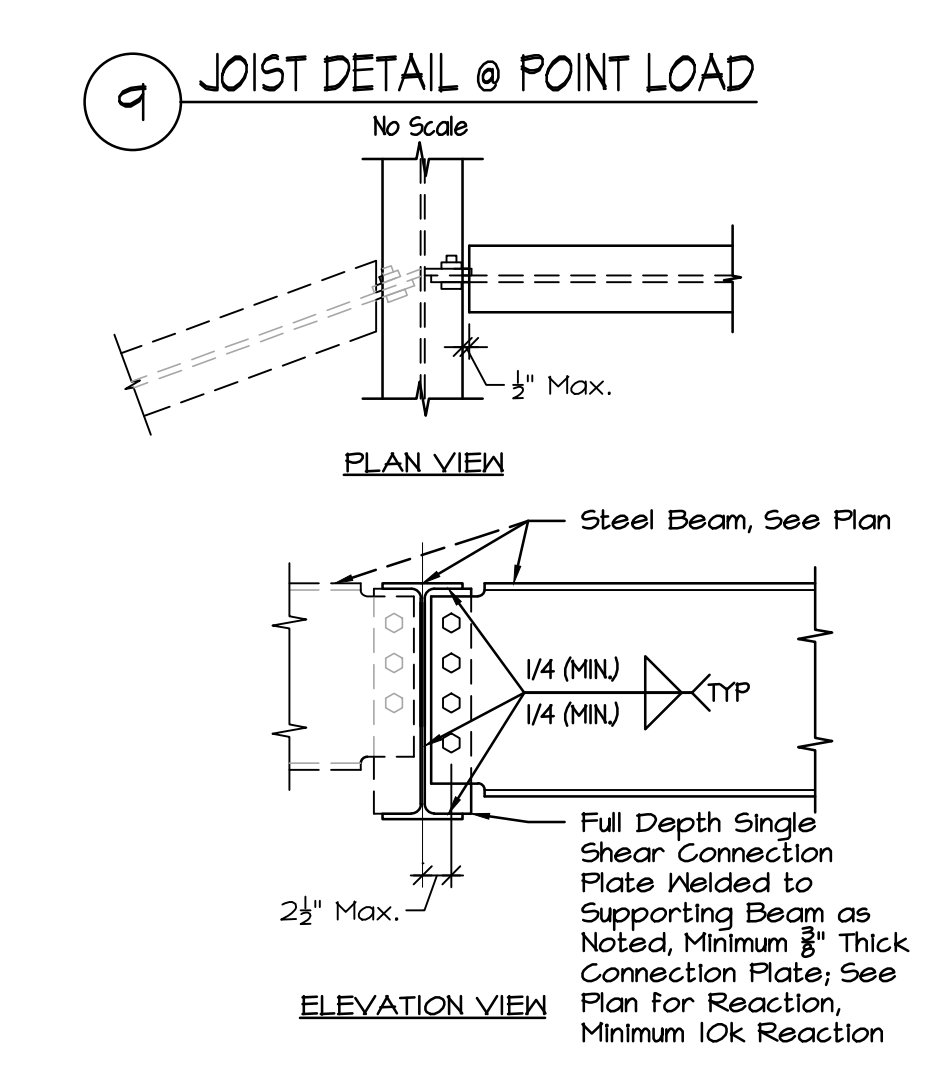
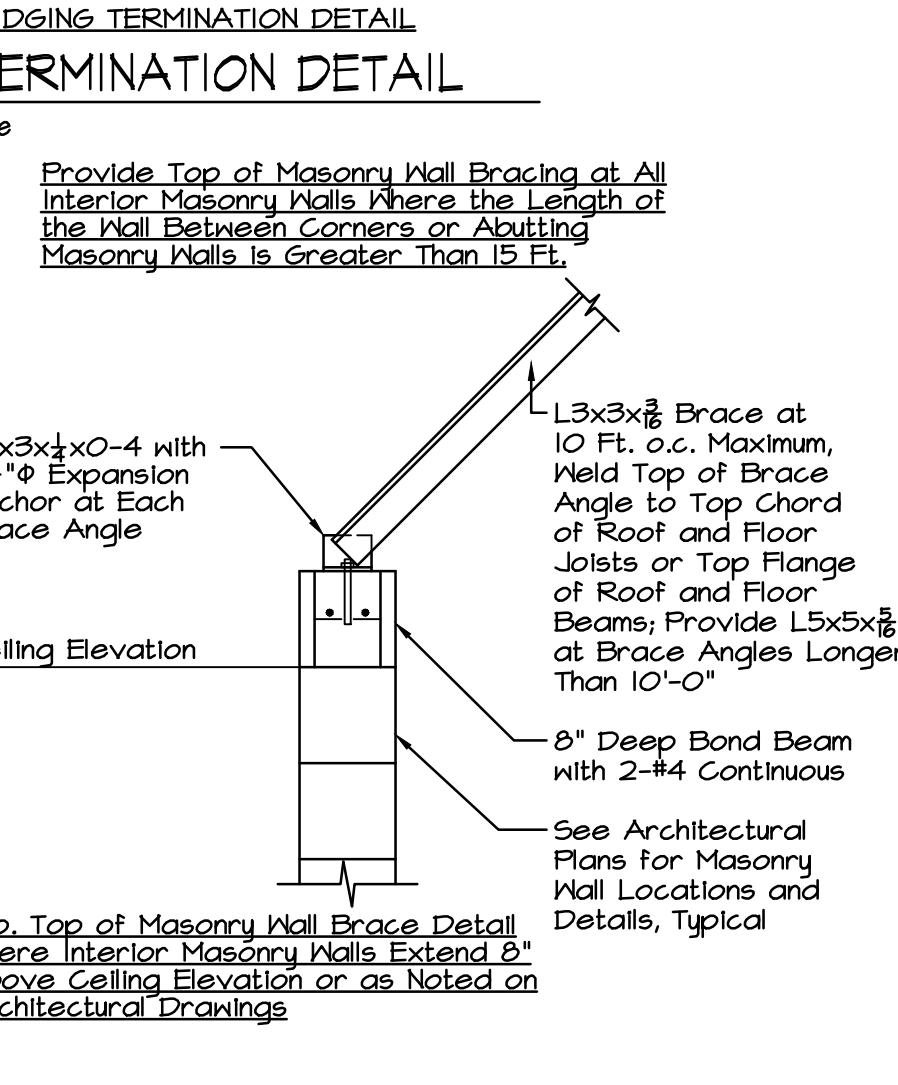
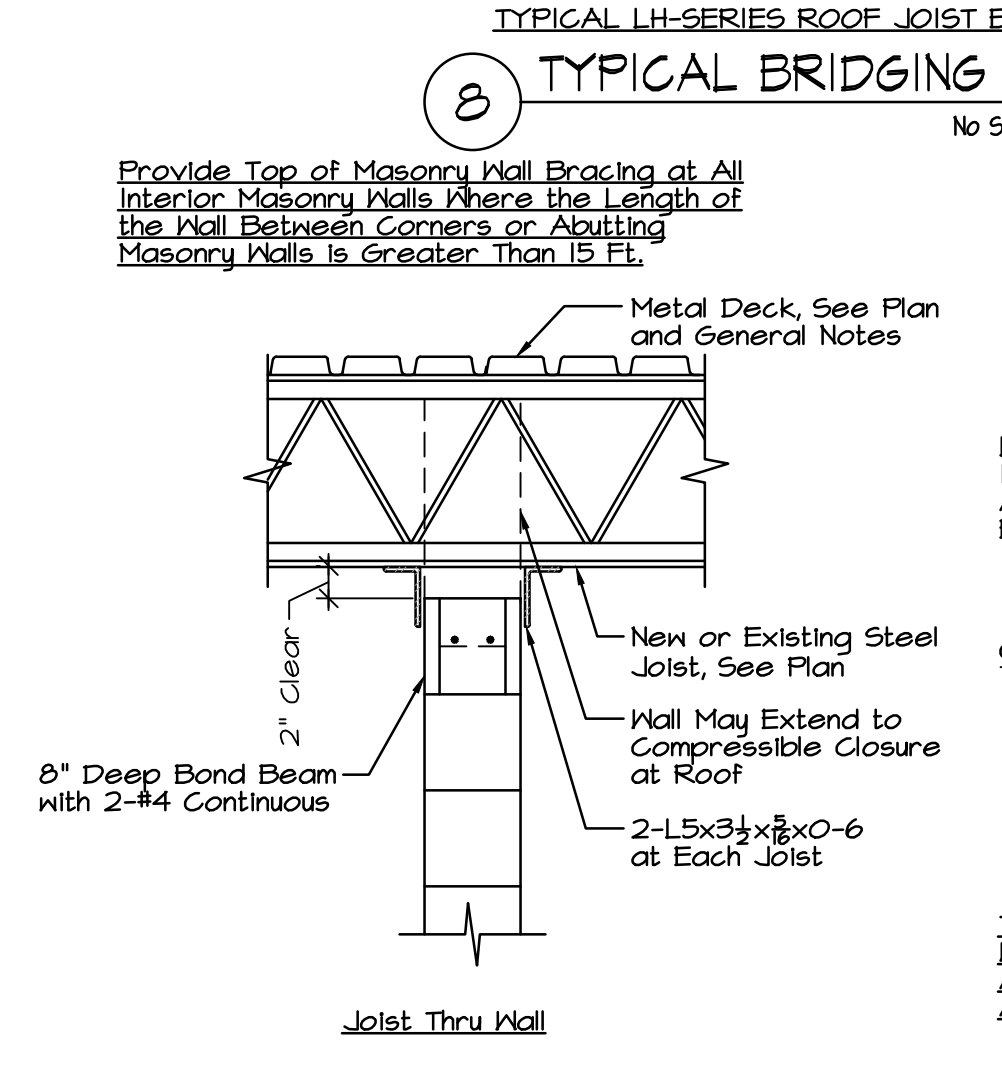
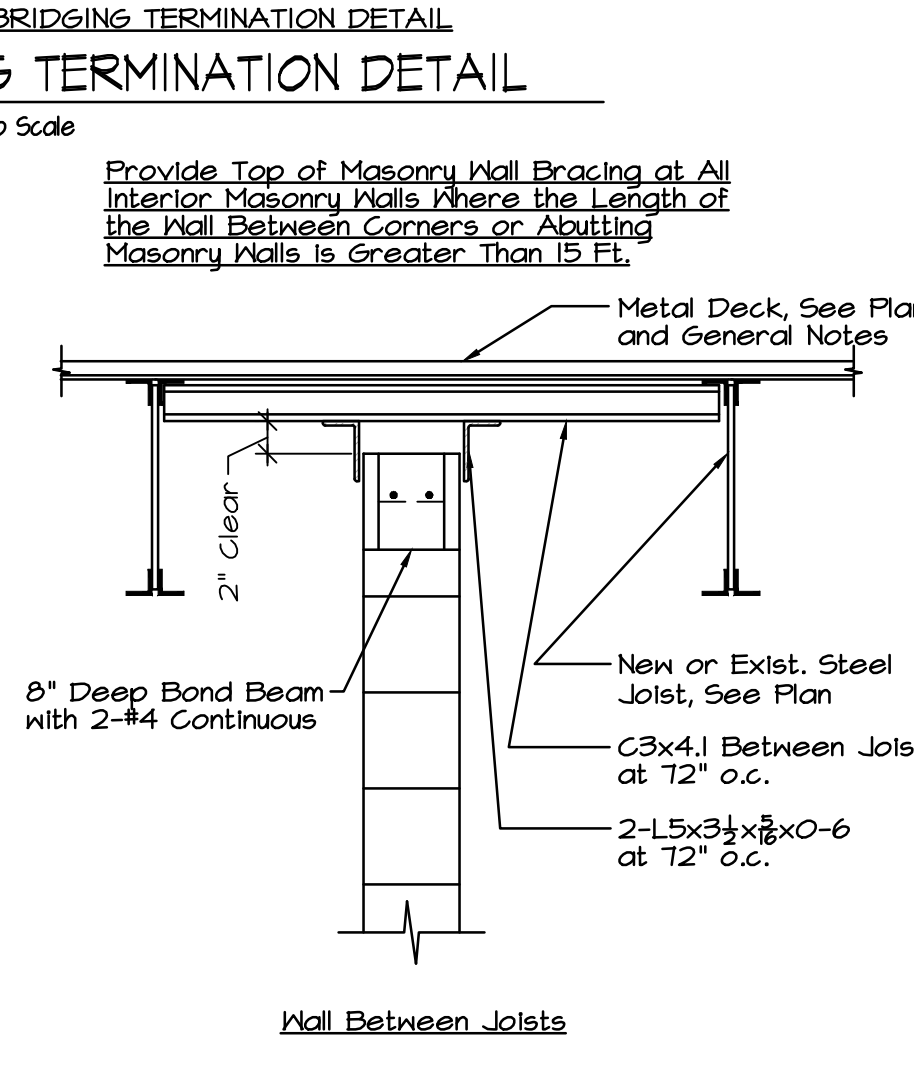
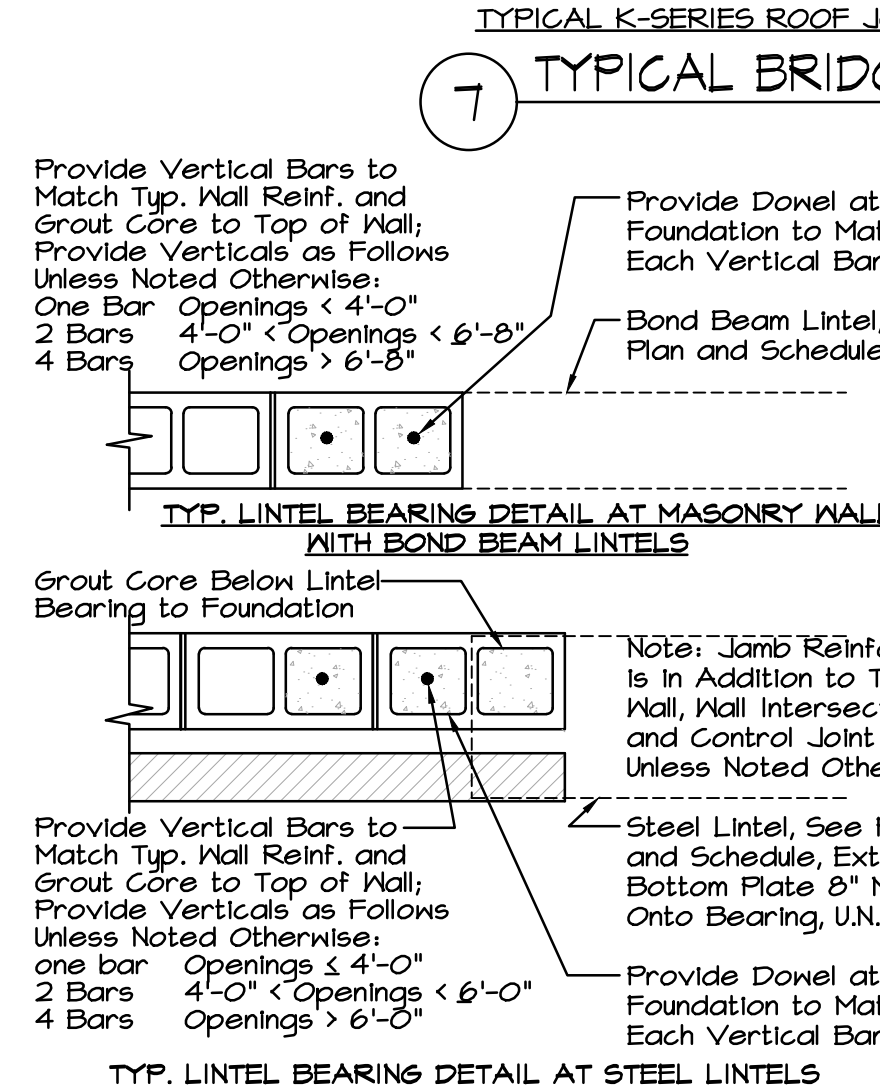
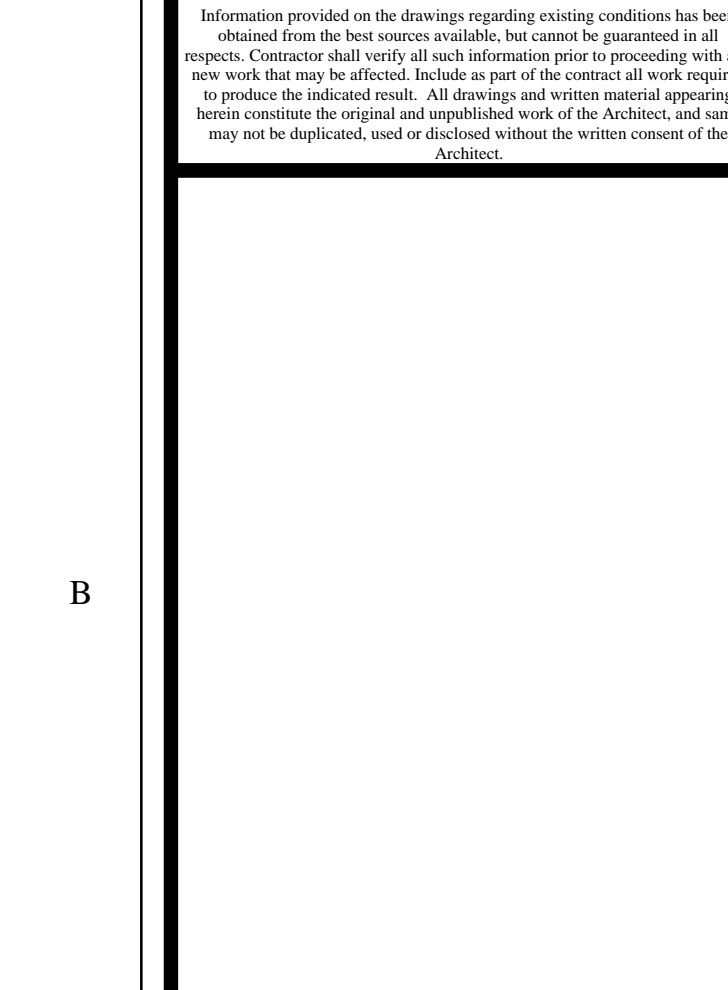
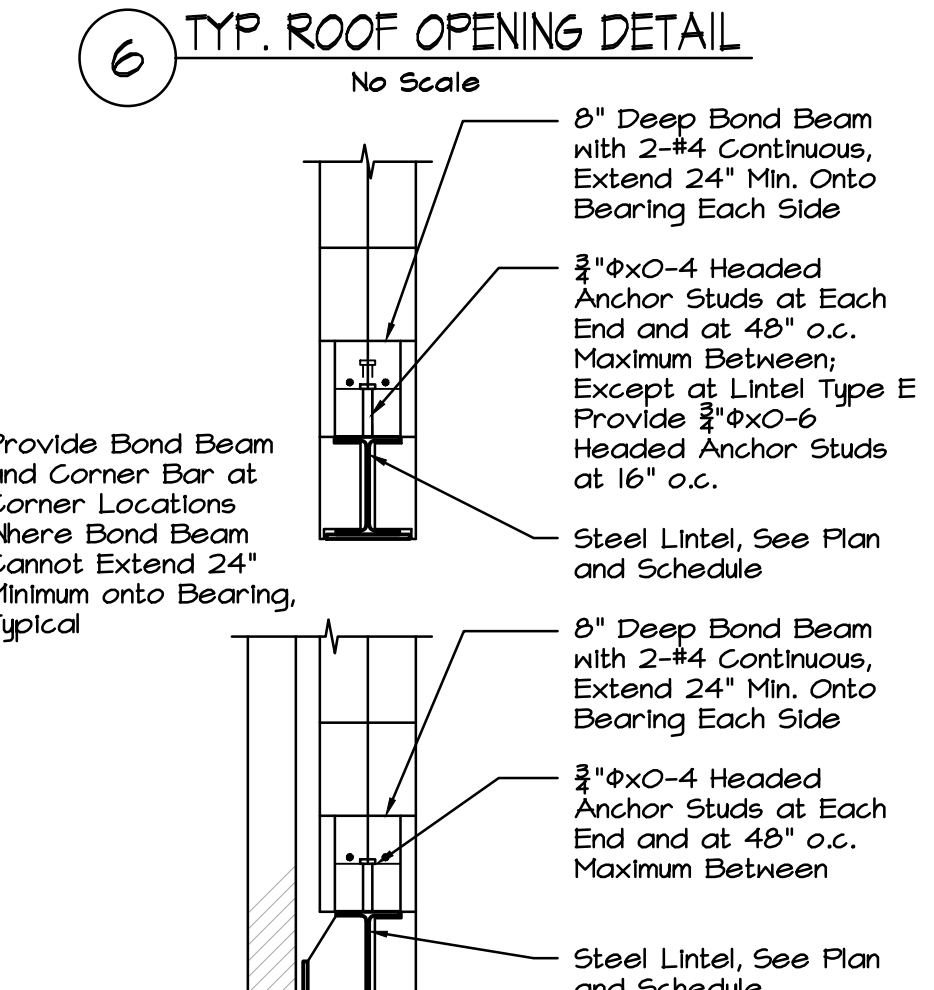
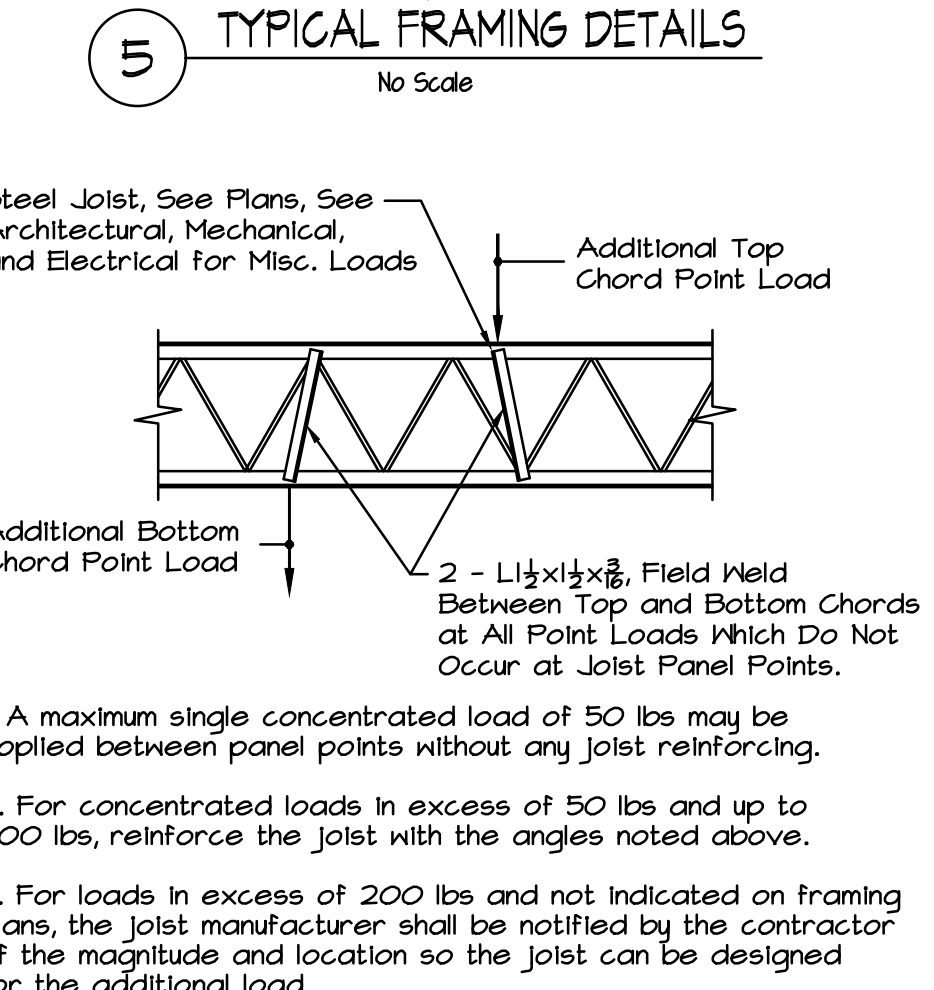
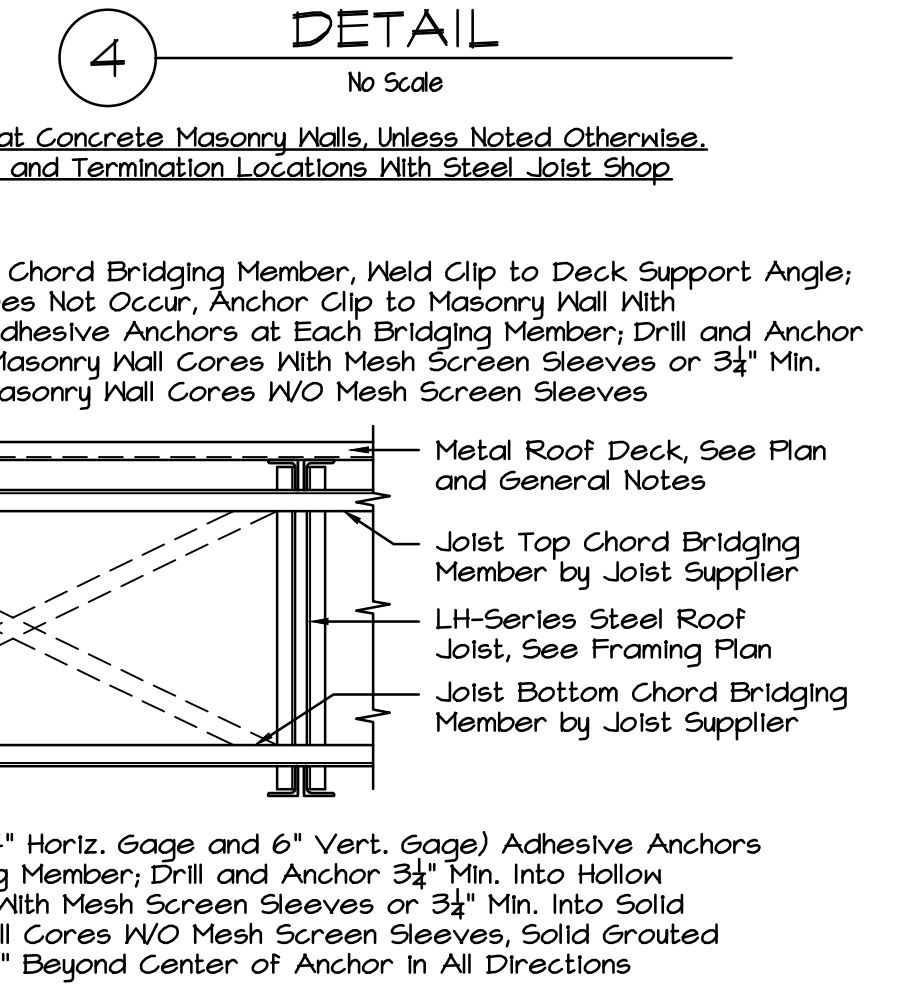
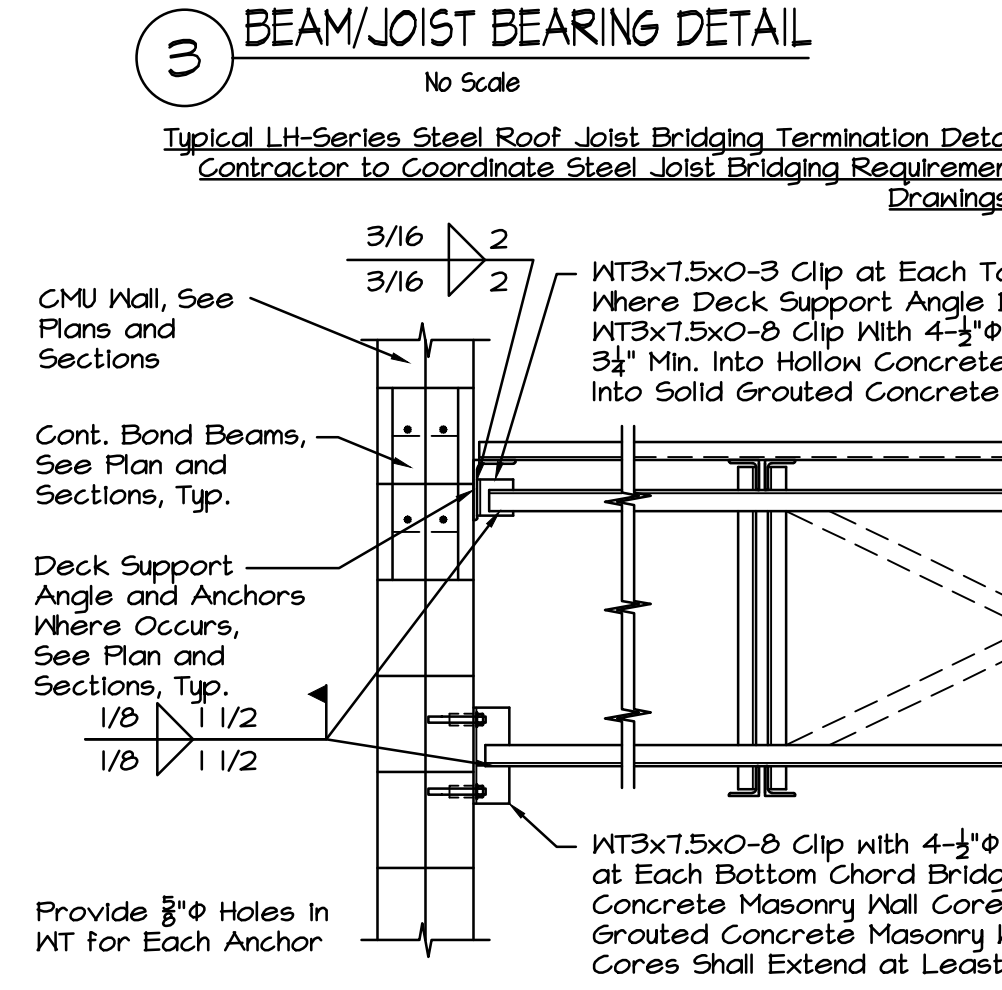
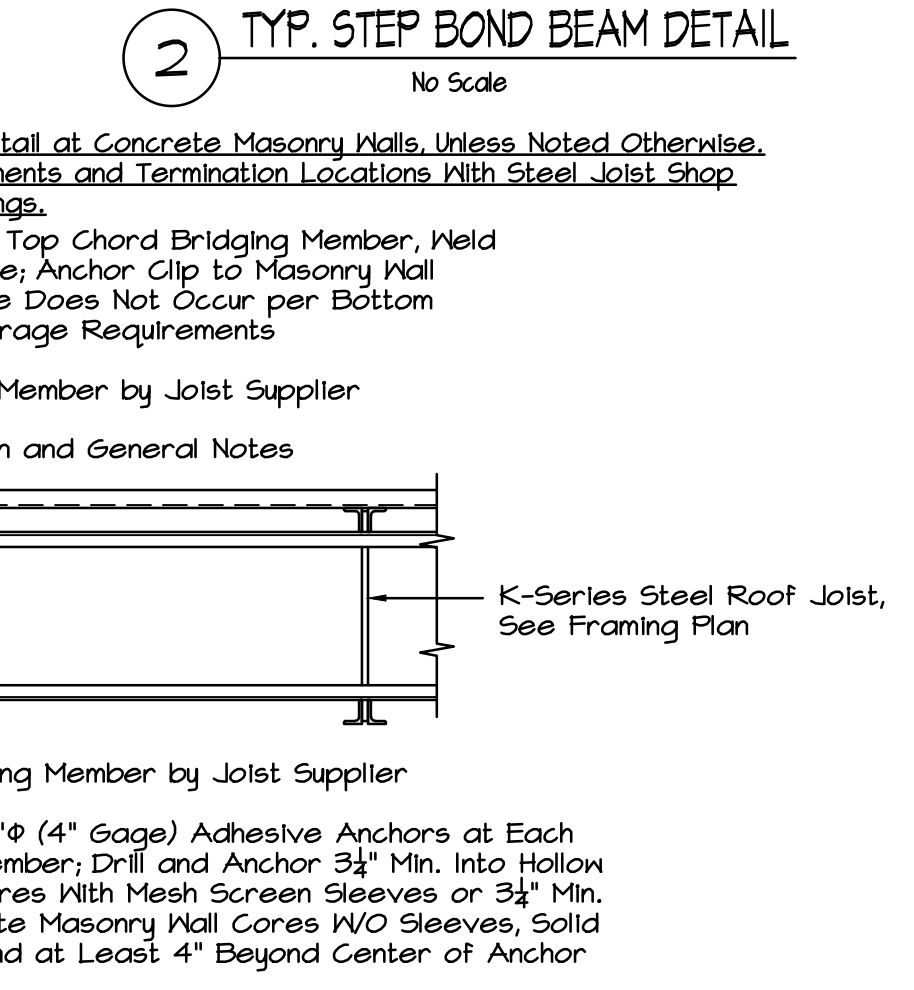
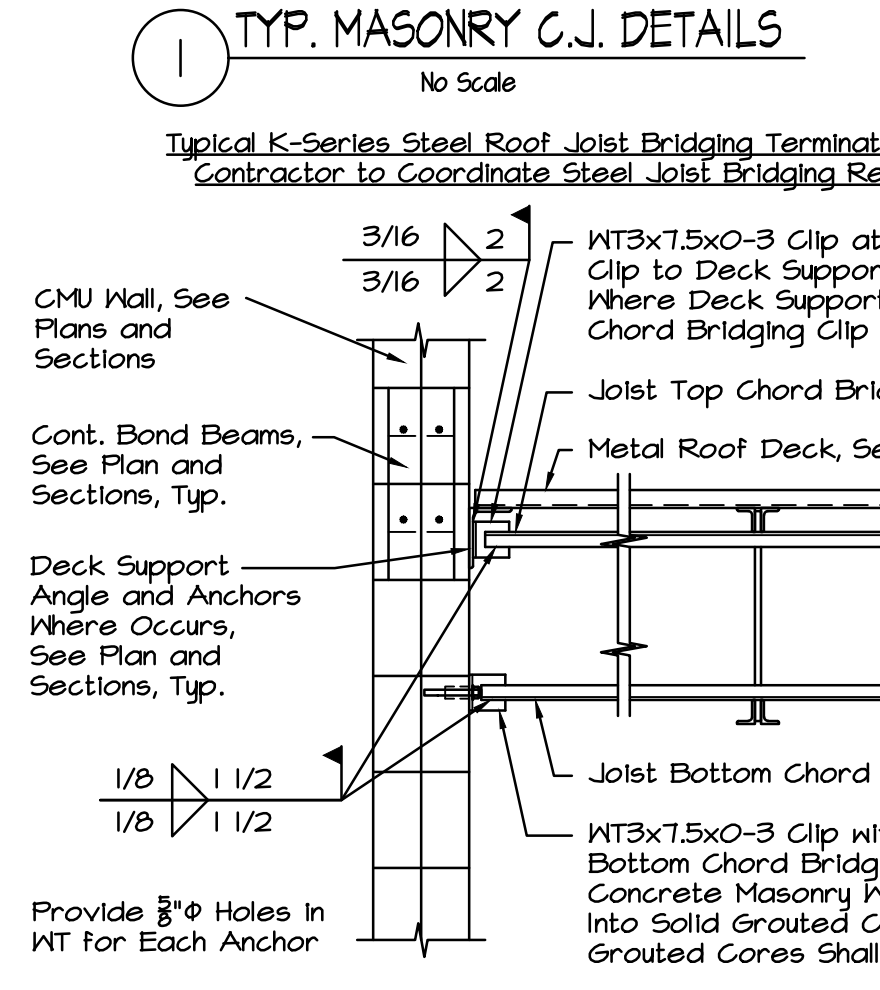
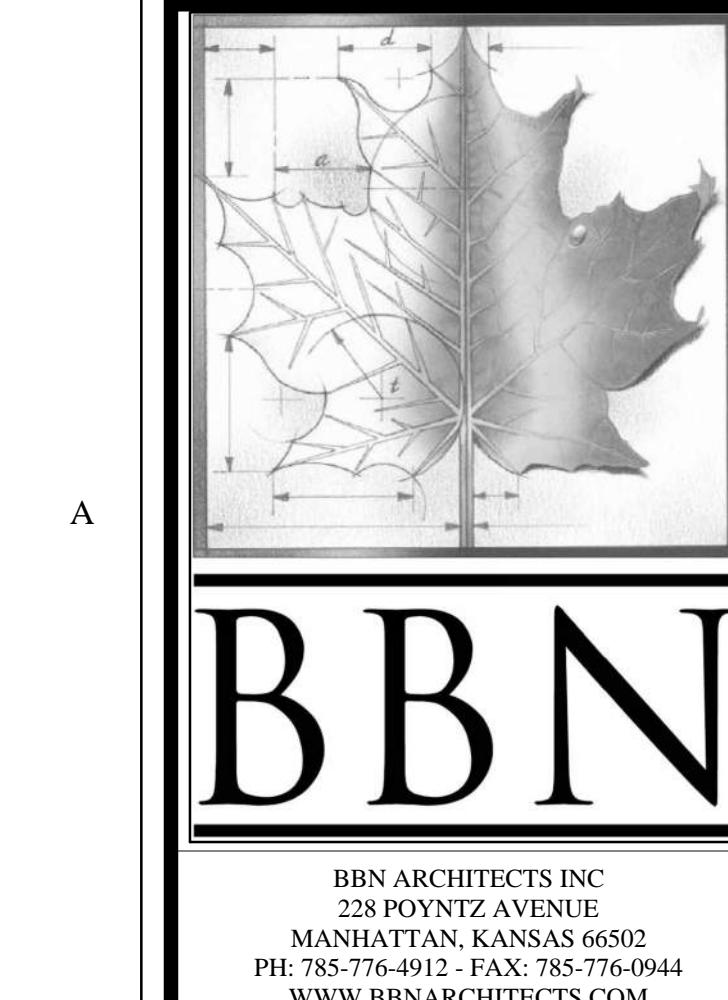
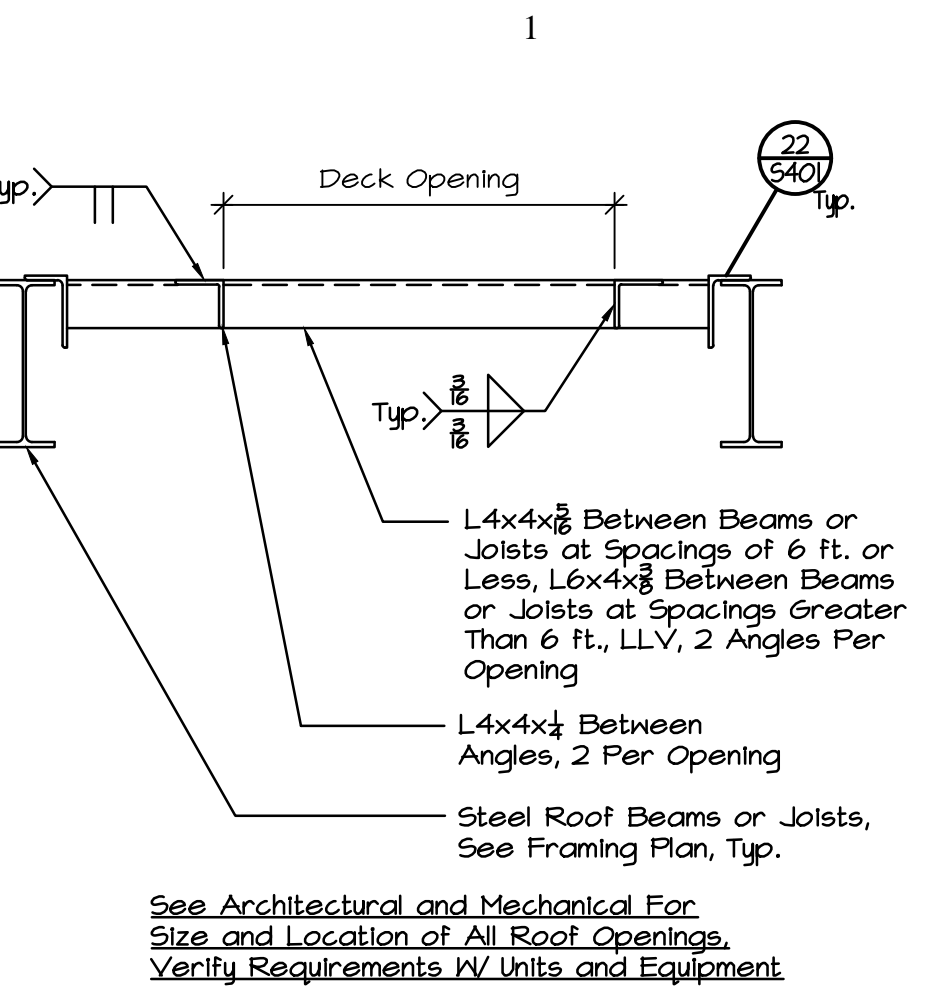
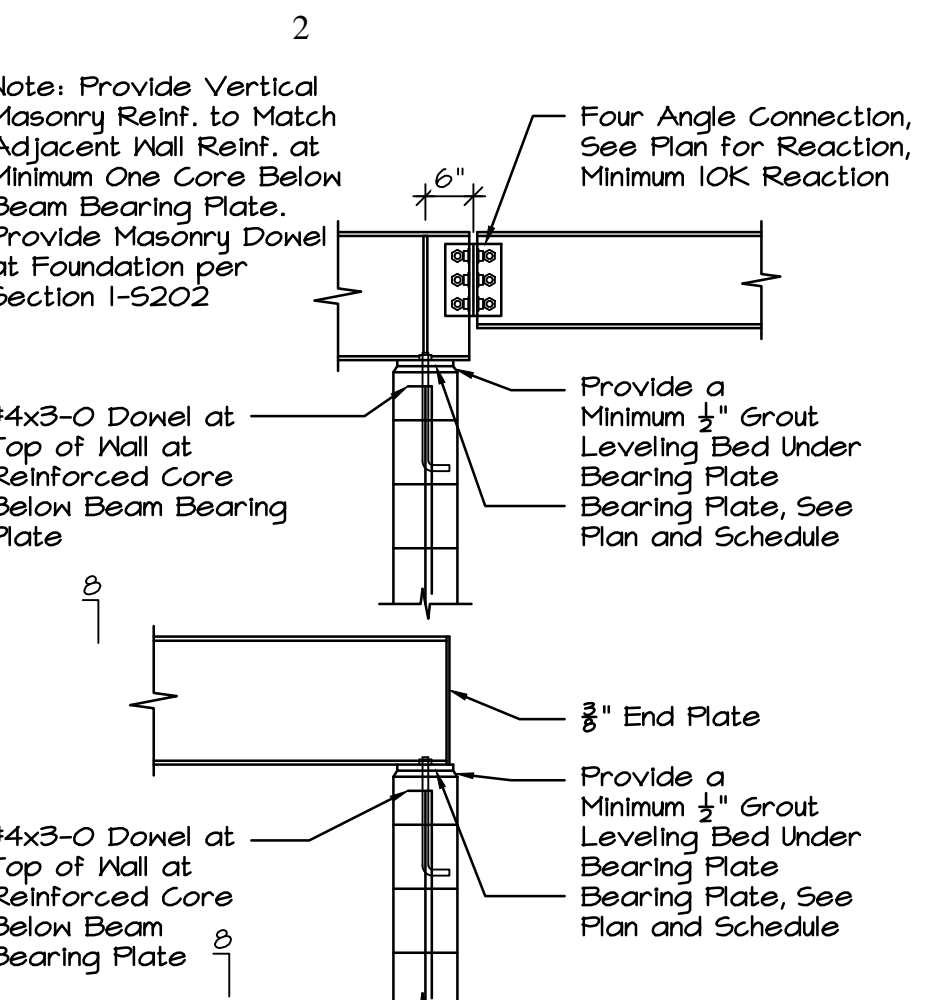
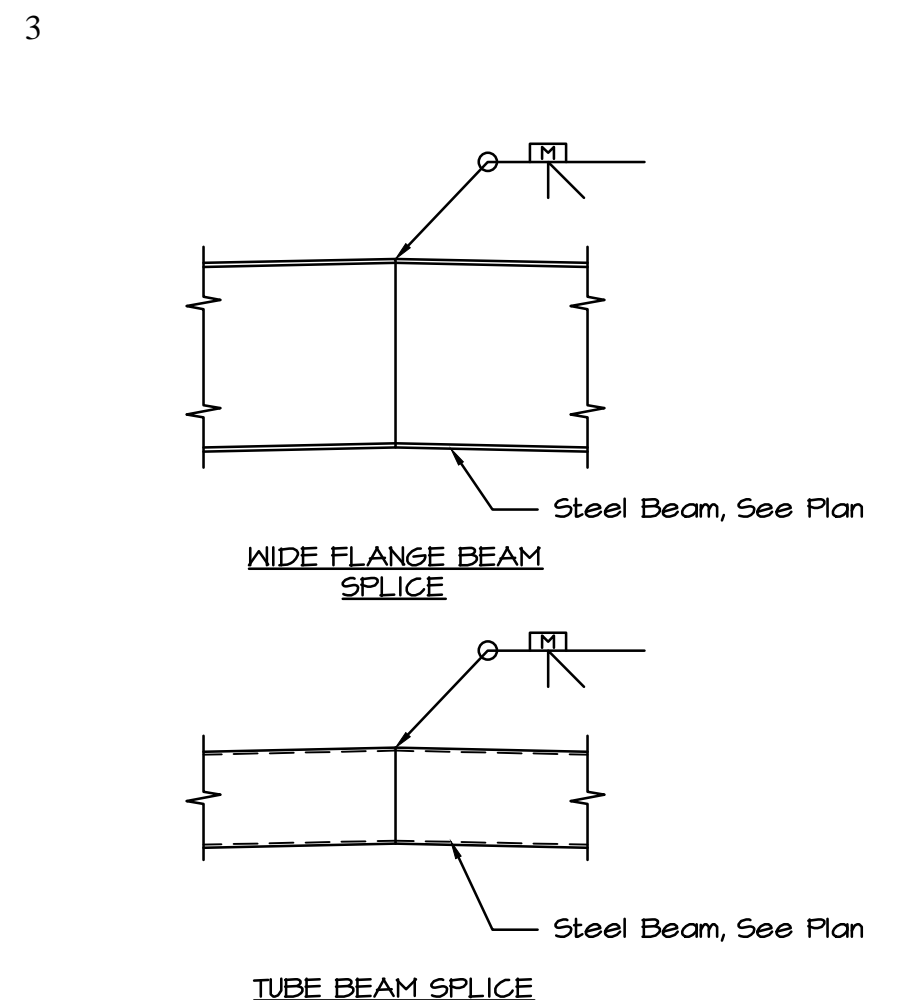
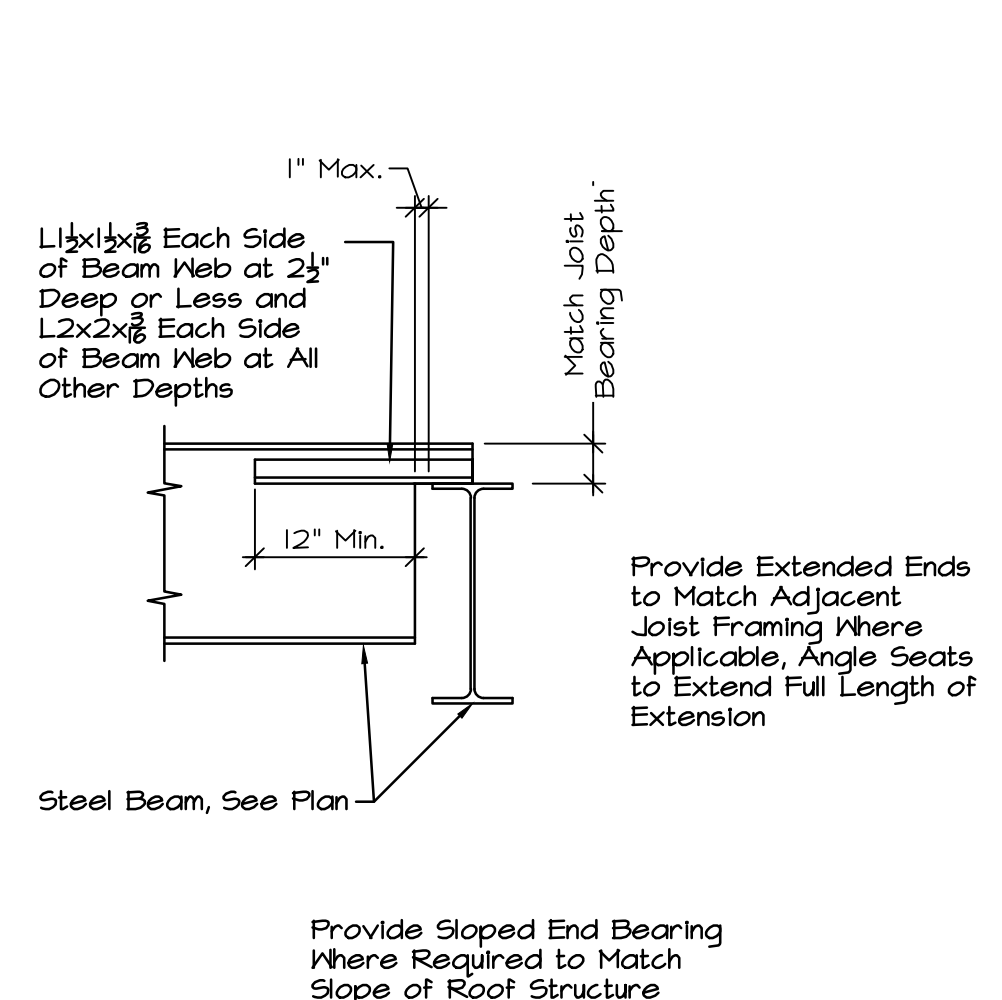
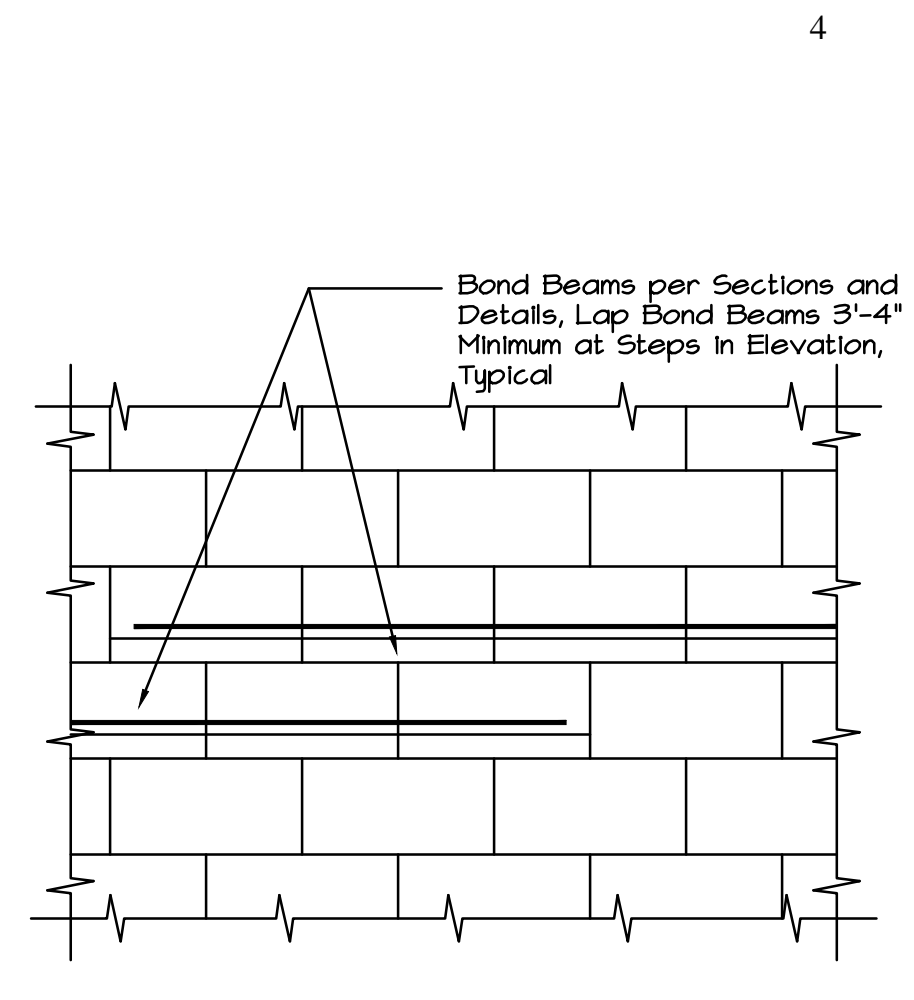
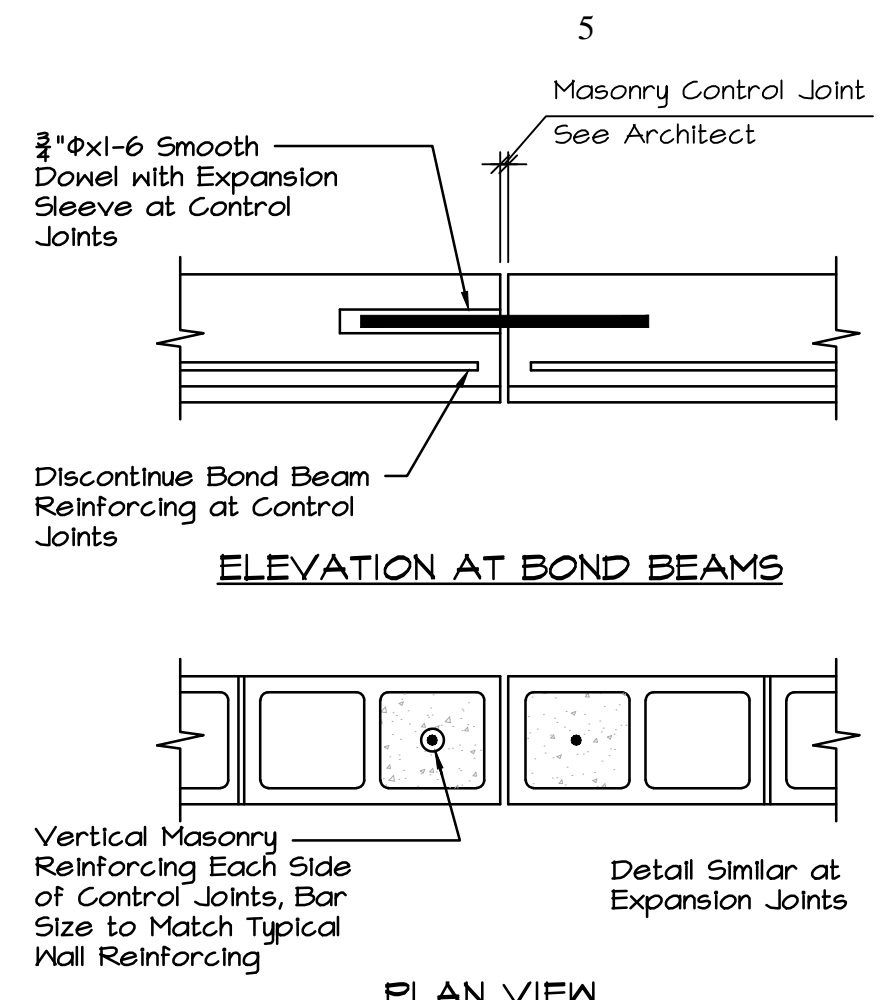
Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
FRAMING SECTIONS AND DETAILS

Sheet:
S401

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S401 in 1/17-045/17-045.05/S-4X [1:24]
11/28/2017 [DEM]



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REV	DESC	DATE



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Date: 11/28/17

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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
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WAMEGO, KS 66547

Sheet Title:

FRAMING SECTIONS AND DETAILS

Sheet:
S402

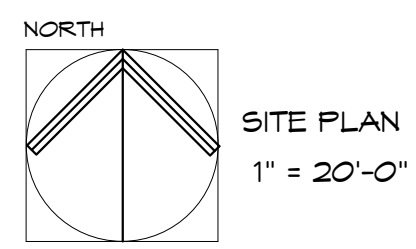
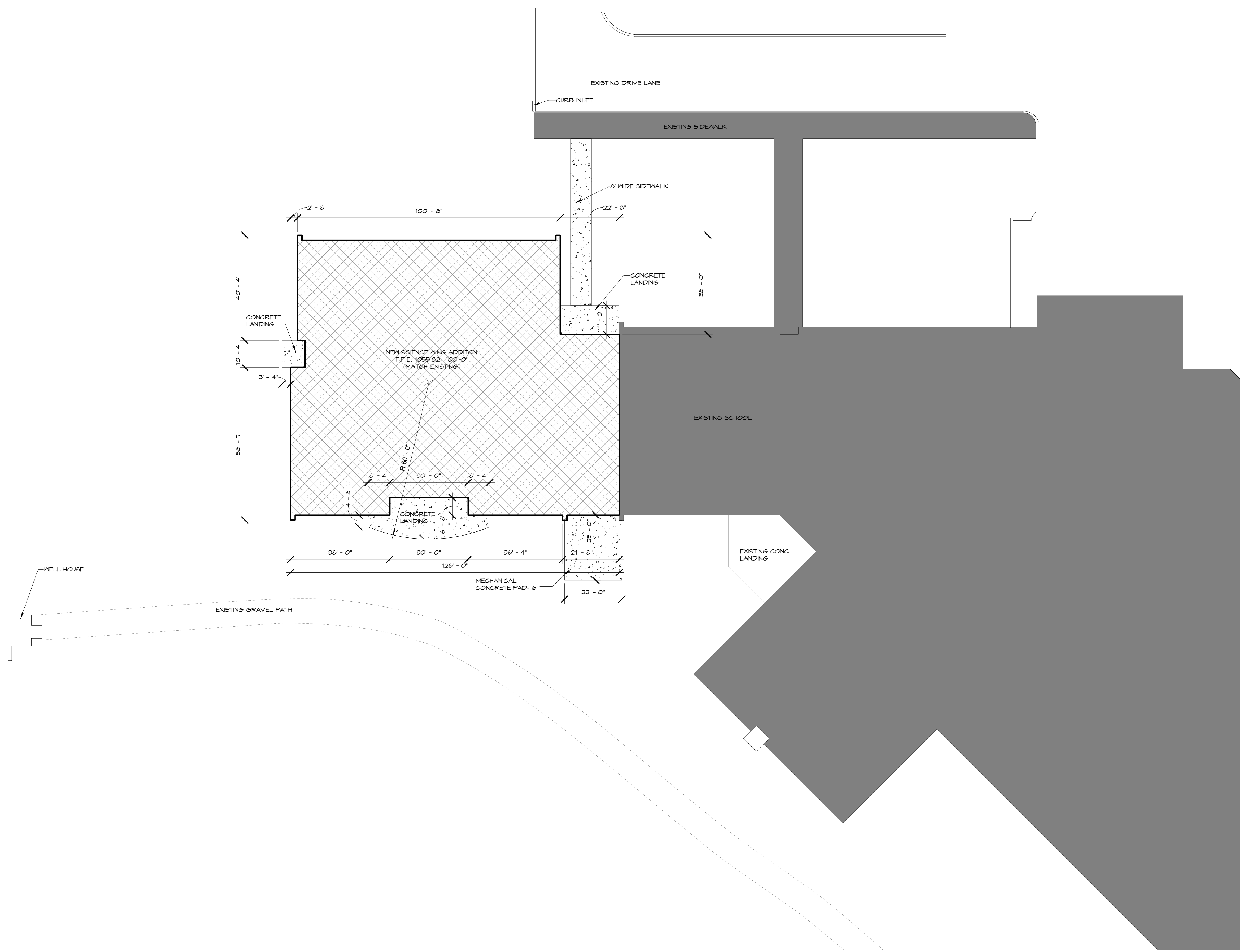
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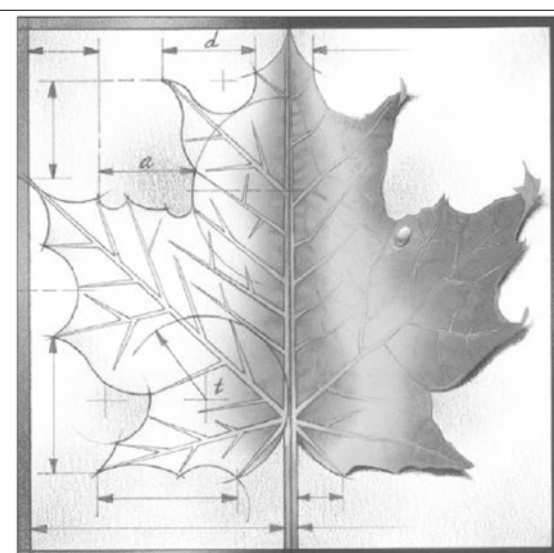


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REVISIONS:

1
2
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Project Number: 16036

Date: 11/28/17

Project Name:
USD 320 WAMEGO MIDDLE
SCHOOL SCIENCE ROOM
ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

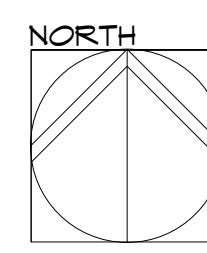
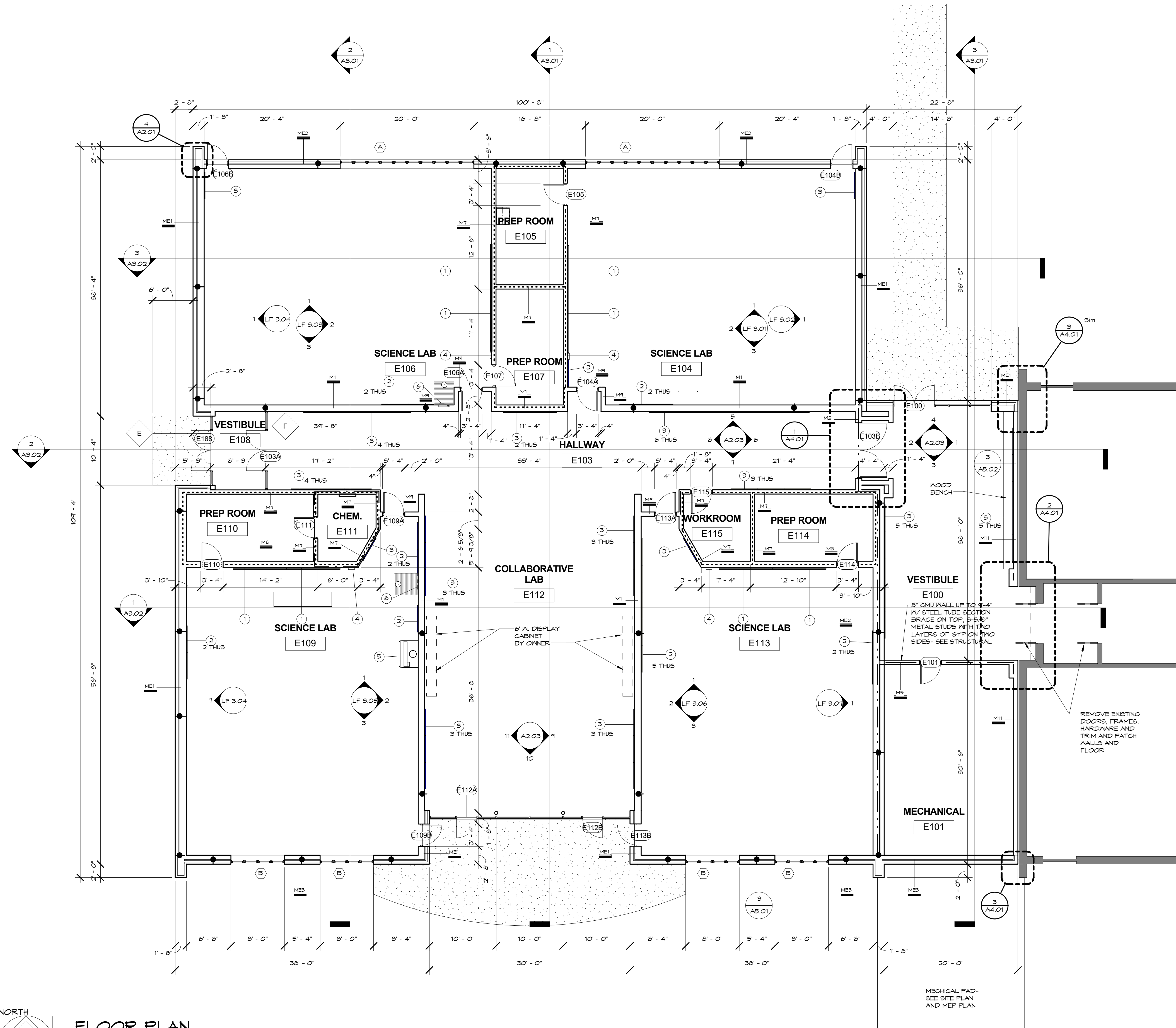
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SITE PLAN

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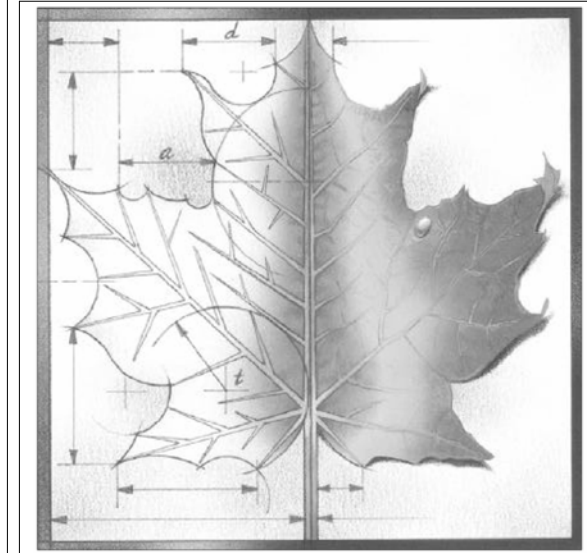
A1.01

OF:



FLOOR PLAN

1/8" = 1'-0"



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PLAN NOTES

- 1 MARKER BOARD - 4' X 8'
- 2 3'-0" X 4'-0" TACKABLE FABRIC-WRAPPED ACOUSTIC PANEL
- 3 4'-0" X 4'-0" TACKABLE FABRIC-WRAPPED ACOUSTIC PANEL
- 4 SEMI-RECESSED FIRE EXTINGUISHER AND CABINET
- 5 FUME HOOD - SEE LAB FURNISHINGS PLANS
- 6 SAFETY SHOWER - SEE LAB FURNISHINGS PLAN

REVISIONS:

1	
2	
3	
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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

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**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:

FLOOR PLAN

Sheet: **A1.02**

OF

LEGEND

- 2-HOUR FIRE WALL
- - - 1-HOUR FIRE WALL
- · - · - HARDENED WALL - SEE STRUCTURAL FOR REINFORCING REQUIREMENTS
- MASONRY CONTROL JOINT - SEE 7/44-01 VERIFY FINAL LOCATION WITH ARCHITECT

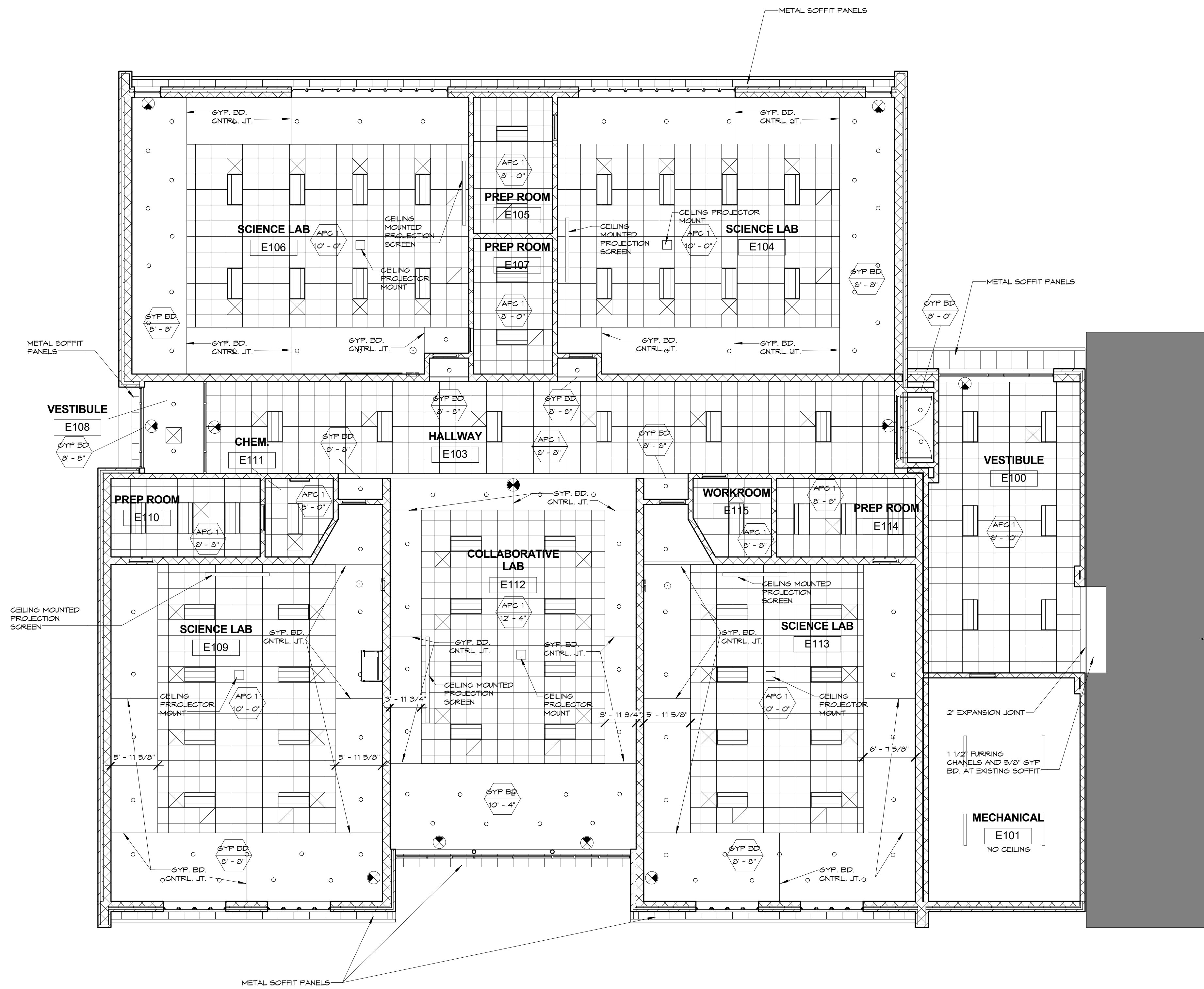
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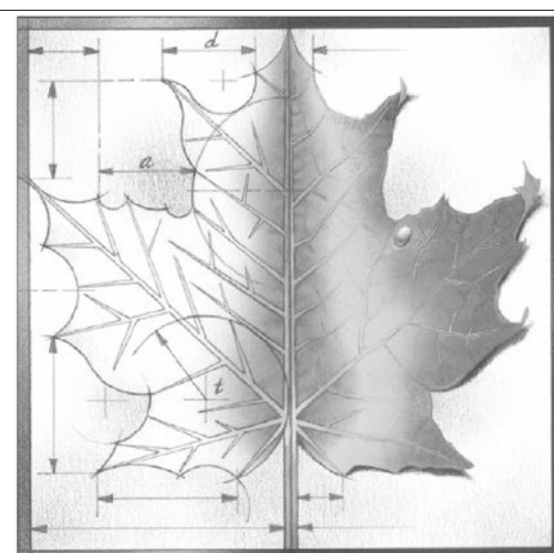
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2

1



1 REFLECTED CEILING PLAN
 A1.03 1/8" = 1'-0"



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Project Number: 16036

Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
 1701 KAW VALLEY ROAD
 WAMEGO, KS 66547

Sheet:

REFLECTED CEILING PLAN

Sheet: **A1.03**

OF:

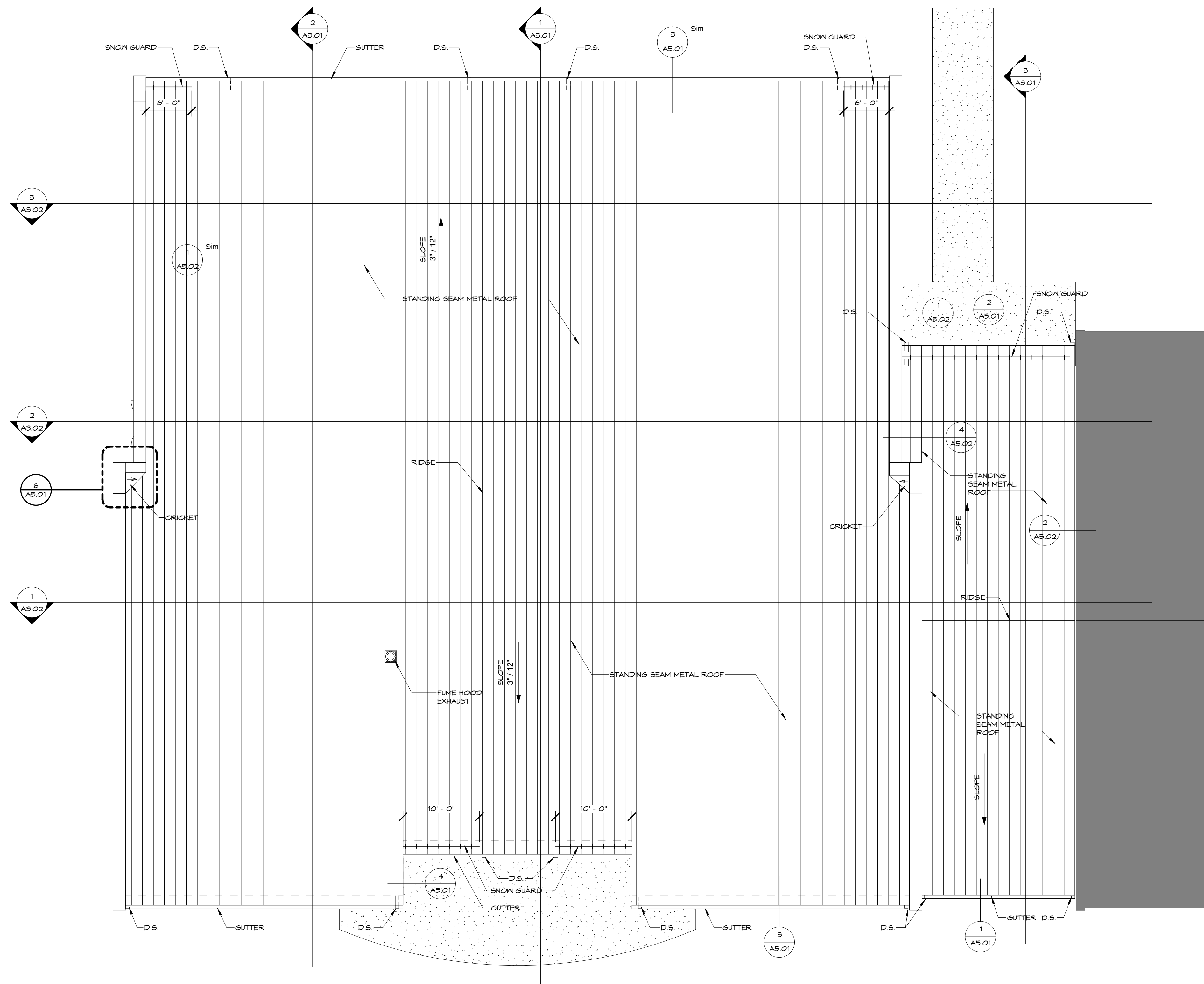
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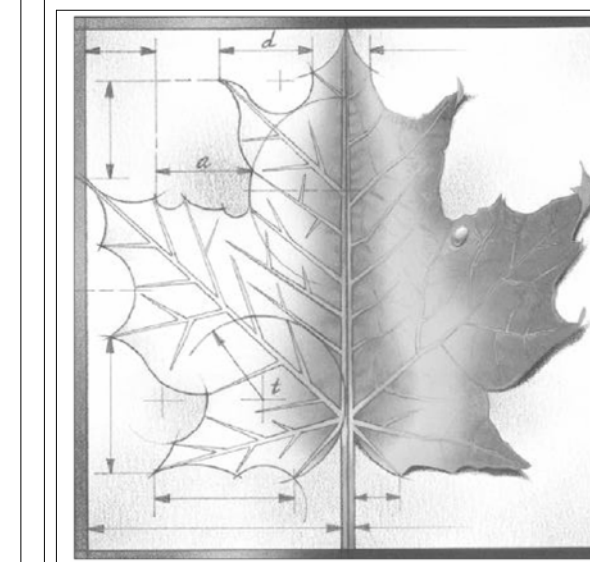
3

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1
A1.04 ROOF PLAN
1/8" = 1'-0"



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Project Number: **16036**

Date: **11/28/17**

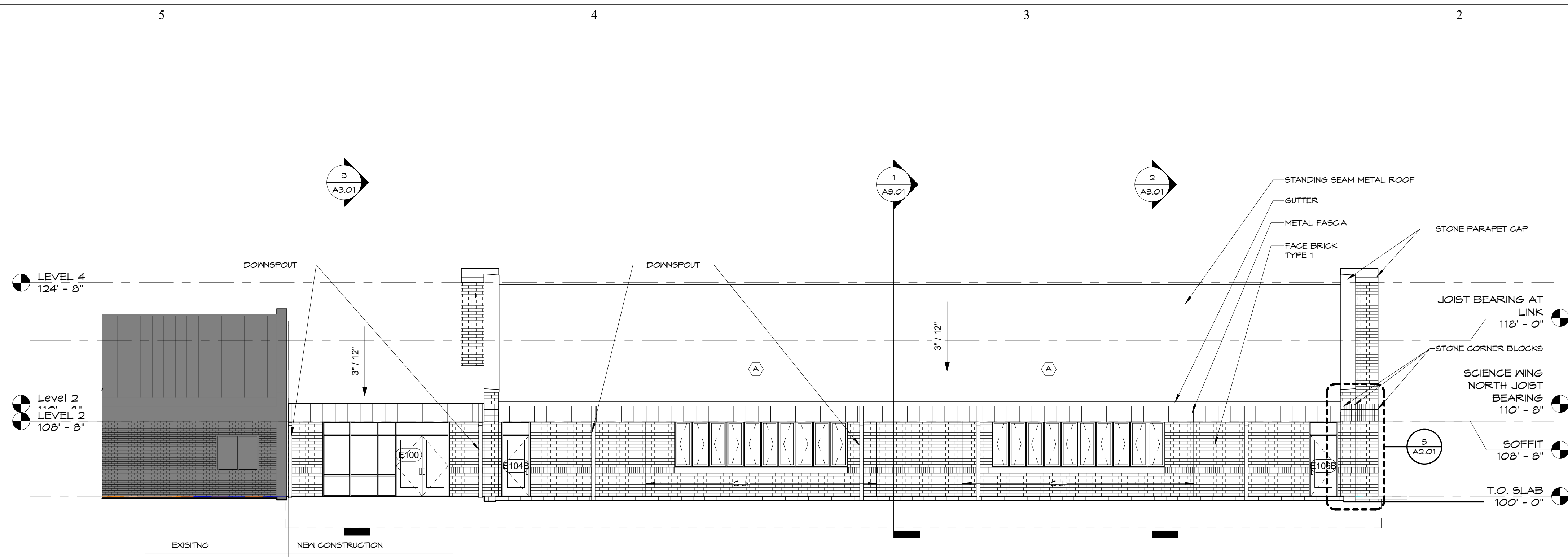
Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

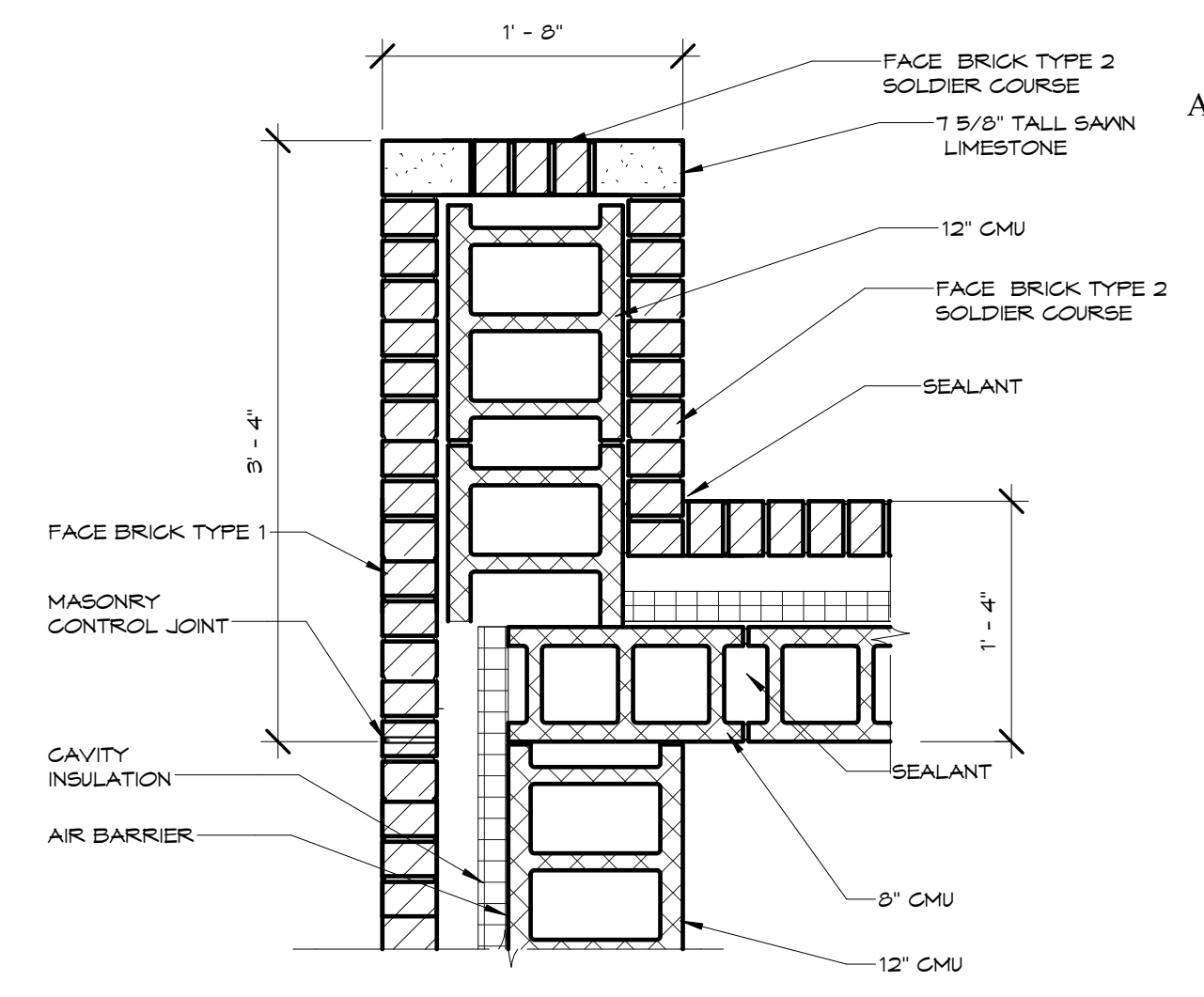
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ROOF PLAN

Sheet:
A1.04

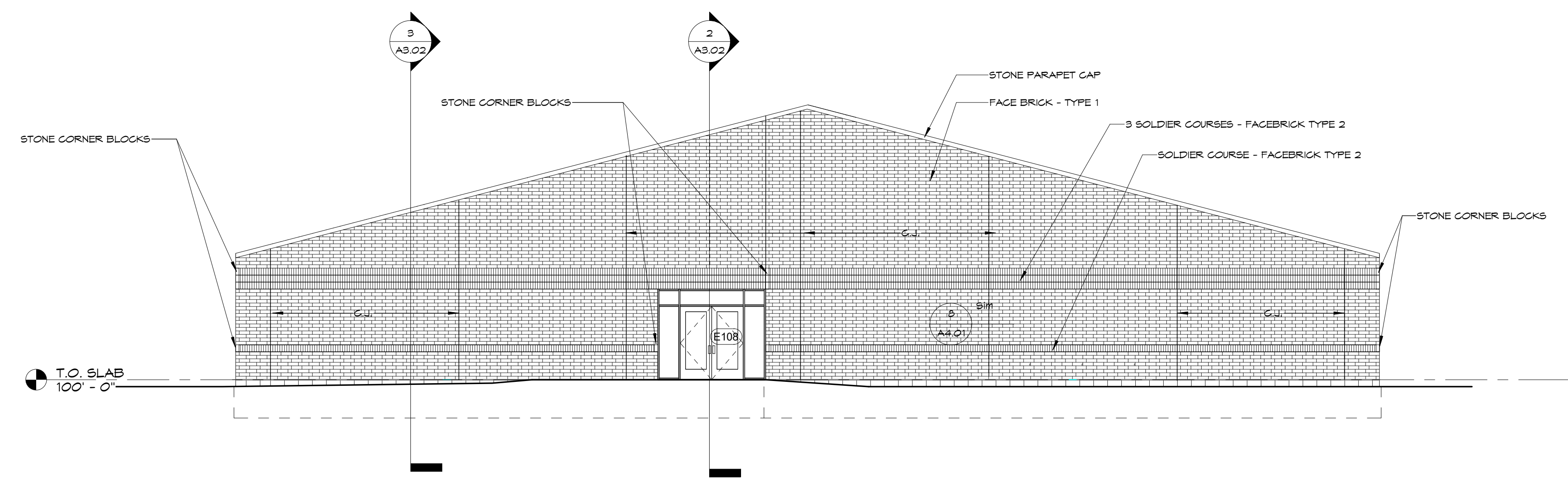
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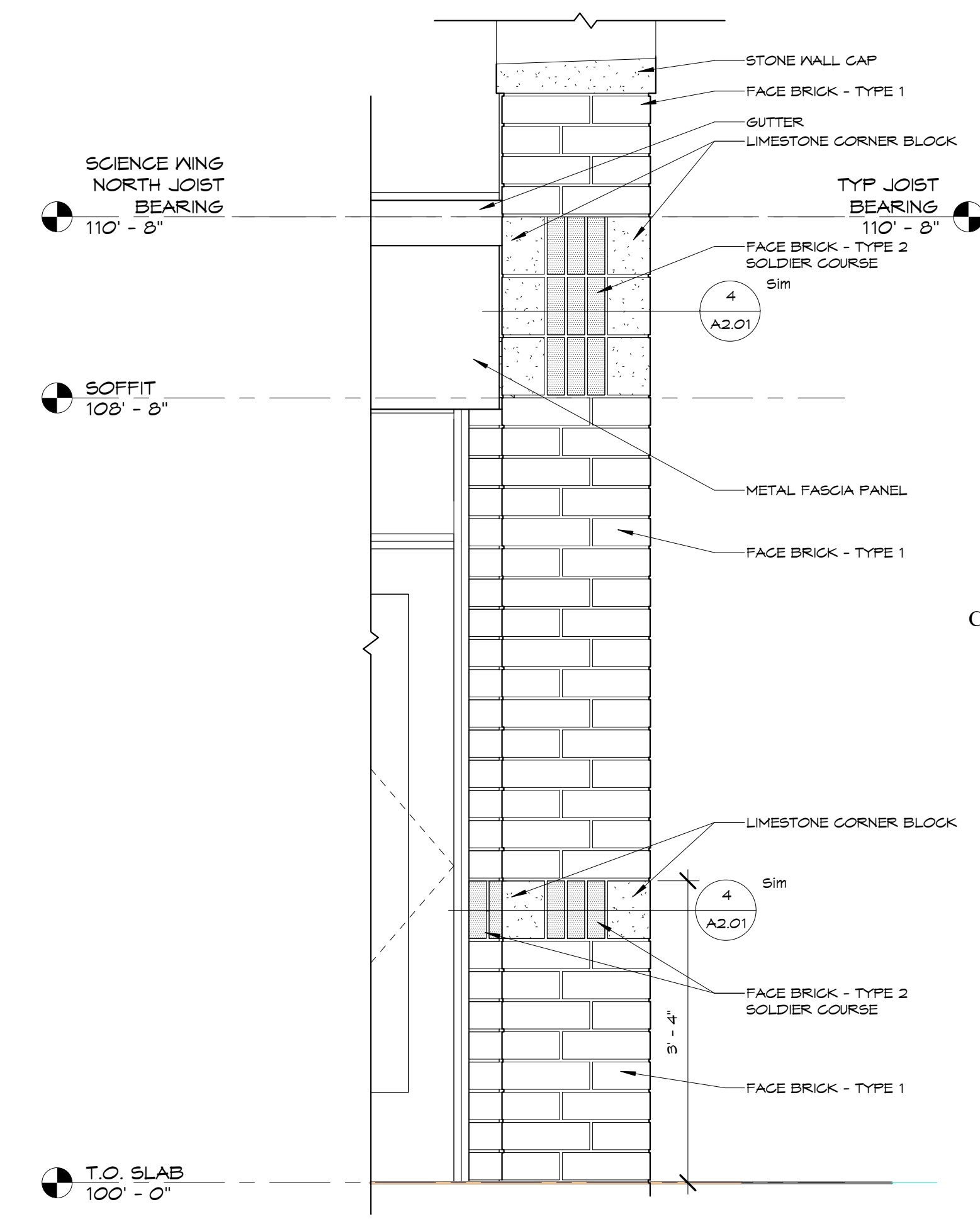
1 NORTH ELEVATION
1/8" = 1'-0"



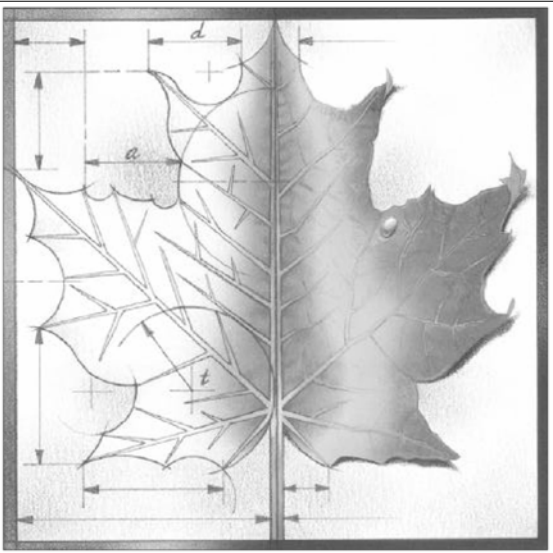
4 SECTION DETAIL AT BELT COURSES
1" = 1'-0"



2 WEST ELEVATION
1/8" = 1'-0"



3 ELEVATION DETAIL AT SOLDIER COURSES
3/4" = 1'-0"



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Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

EXTERIOR ELEVATIONS

Sheet: **A2.01**

Of:

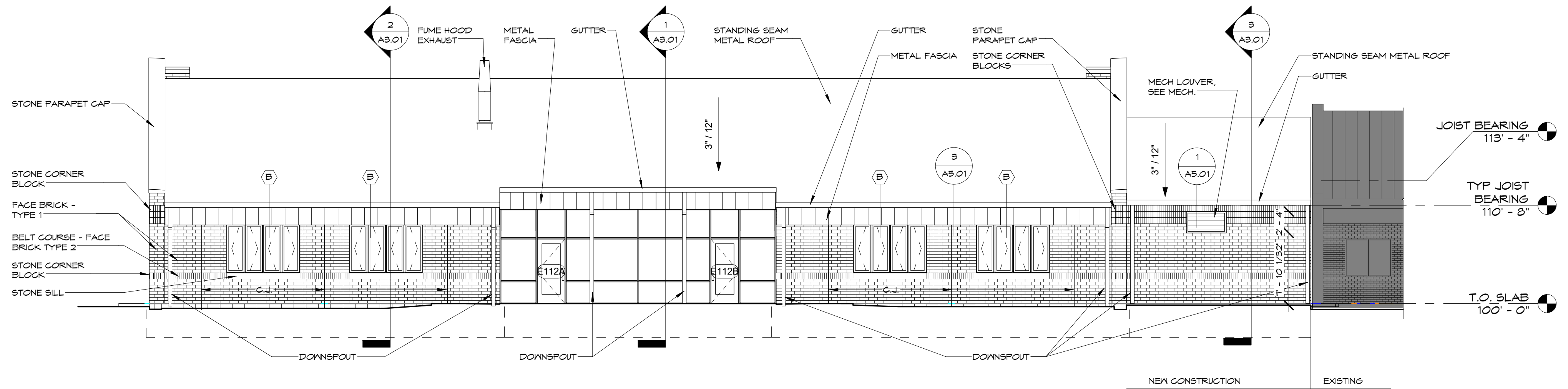
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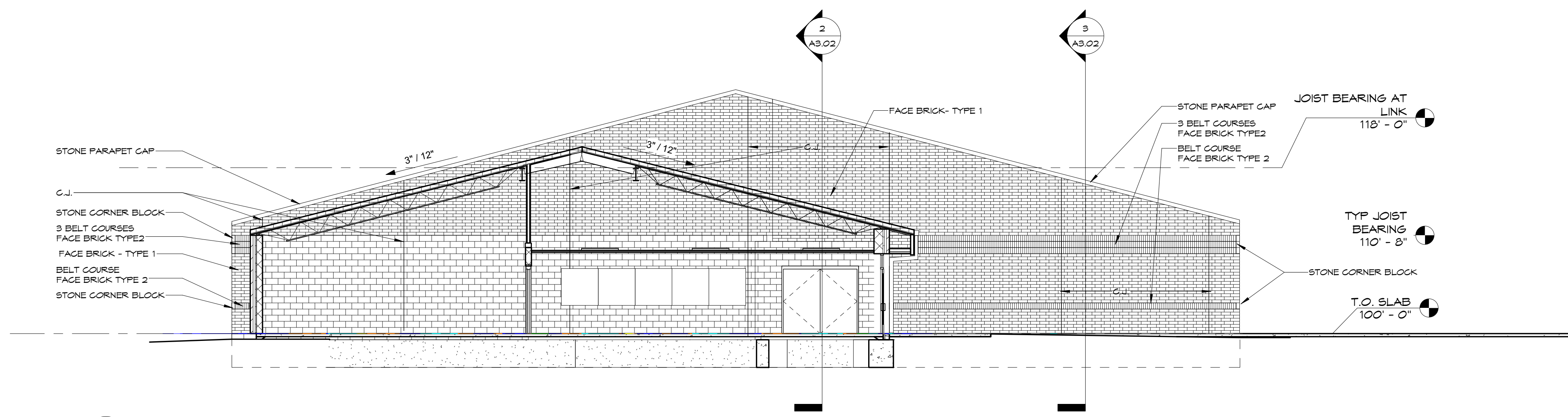
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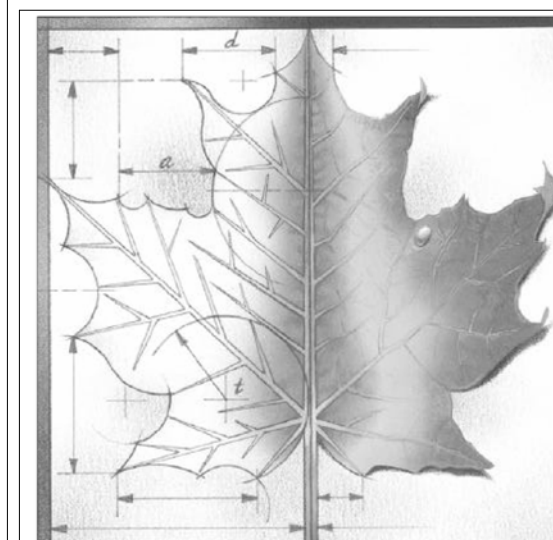
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1 SOUTH ELEVATION
A2.02 1/8" = 1'-0"



2 EAST ELEVATION/SECTION
A2.02 1/8" = 1'-0"



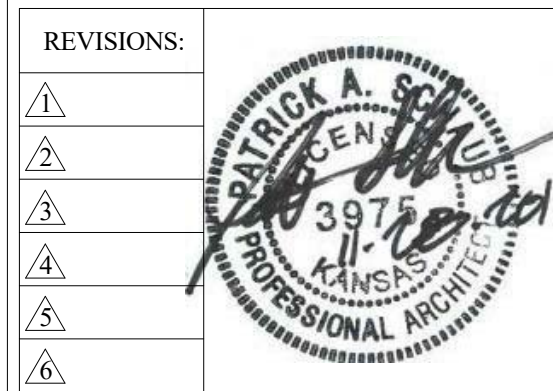
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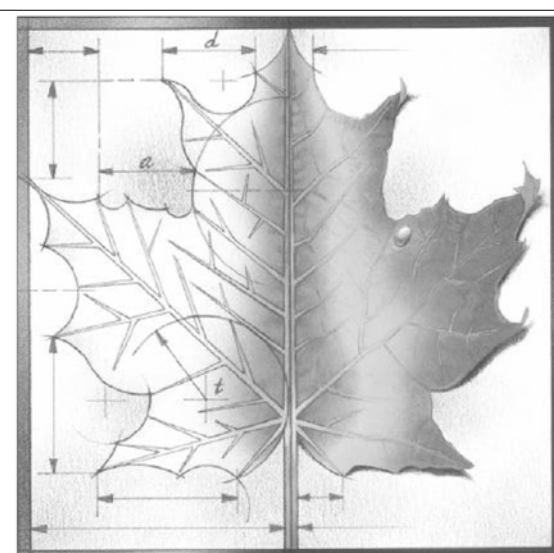
Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:
EXTERIOR ELEVATIONS

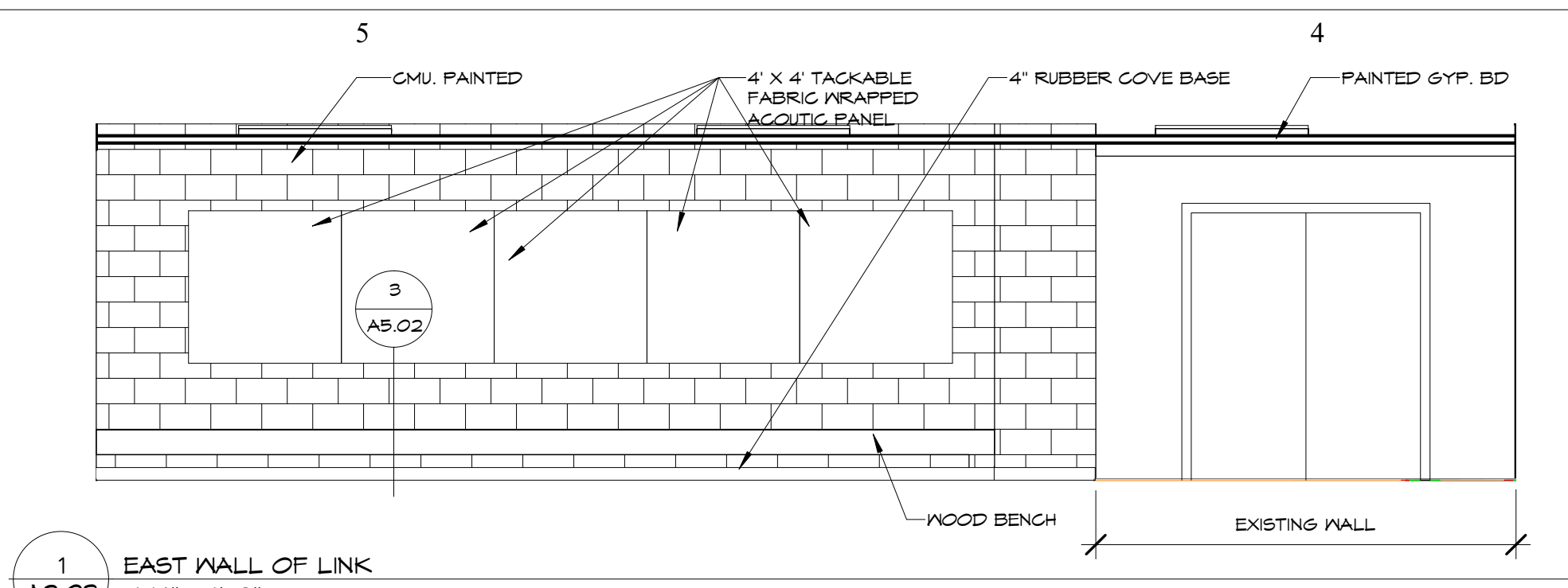
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A2.02
OF:



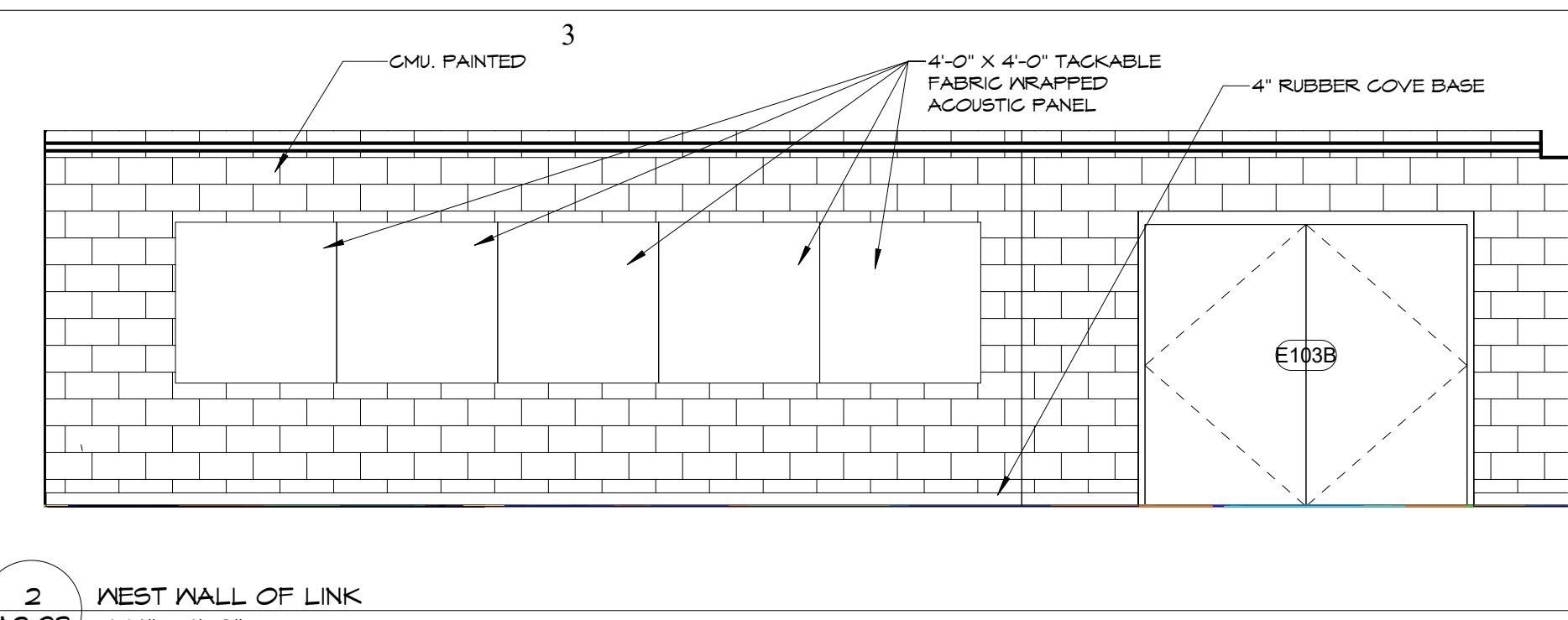
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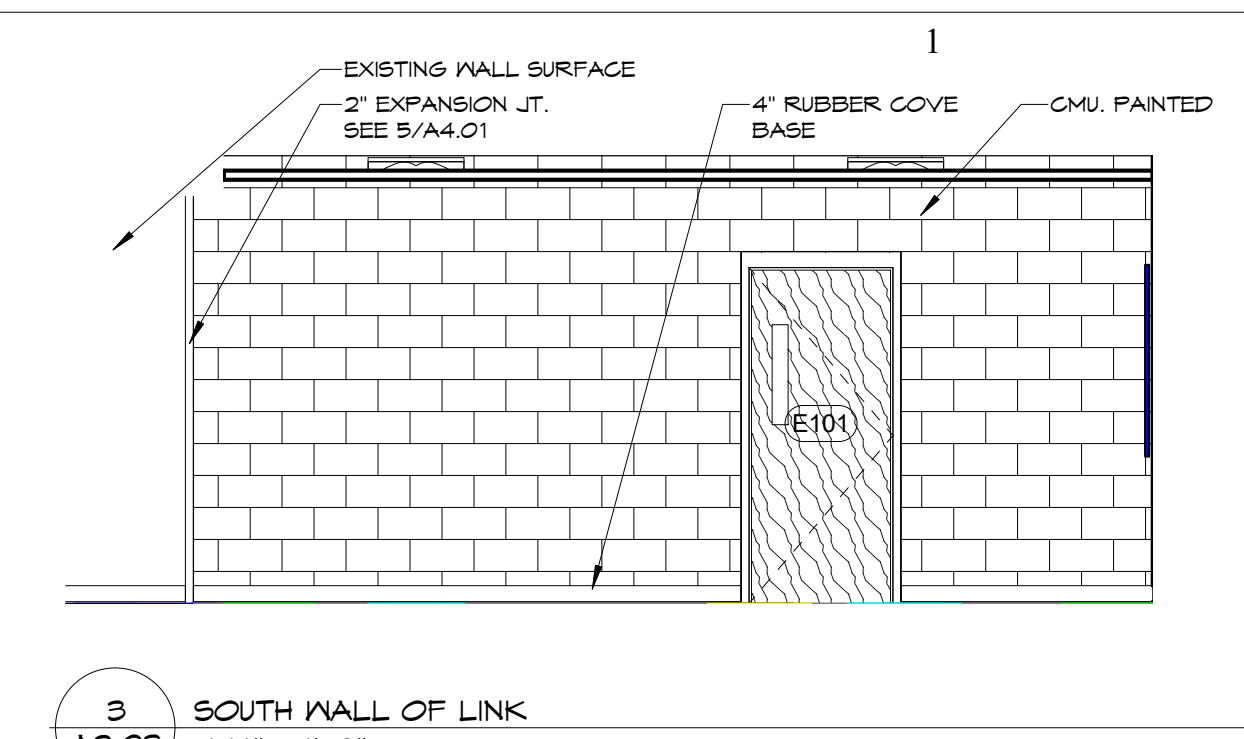
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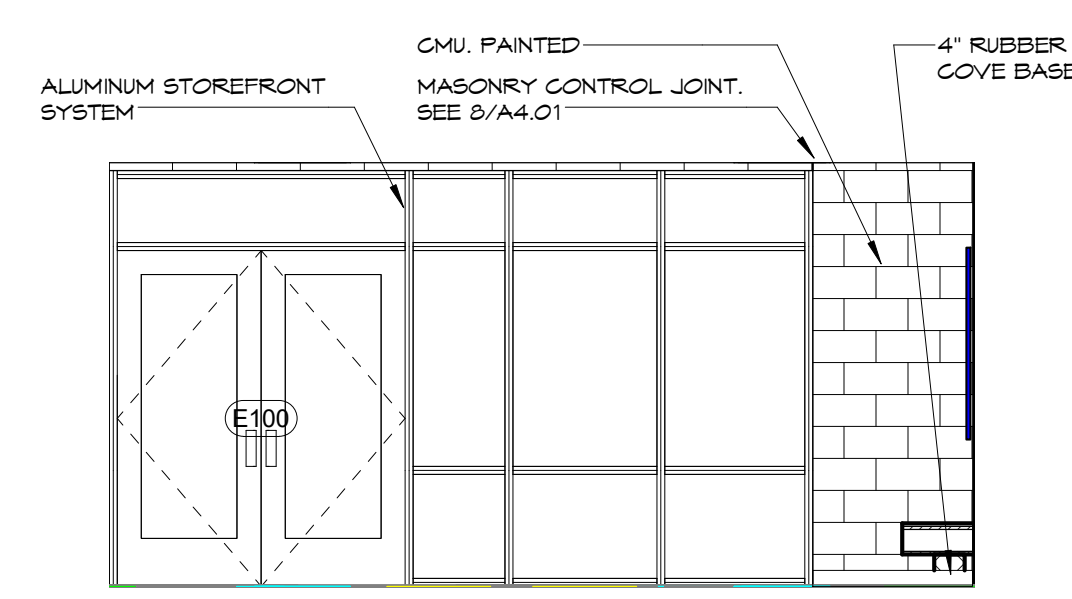
1 EAST WALL OF LINK
A2.03 1/4" = 1'-0"



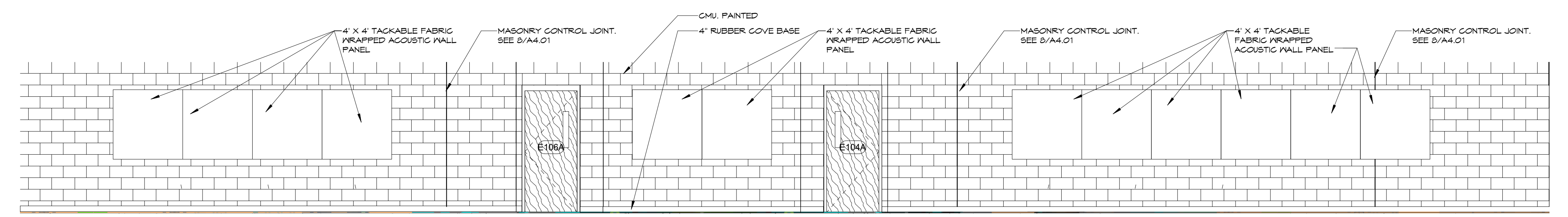
2 WEST WALL OF LINK
A2.03 1/4" = 1'-0"



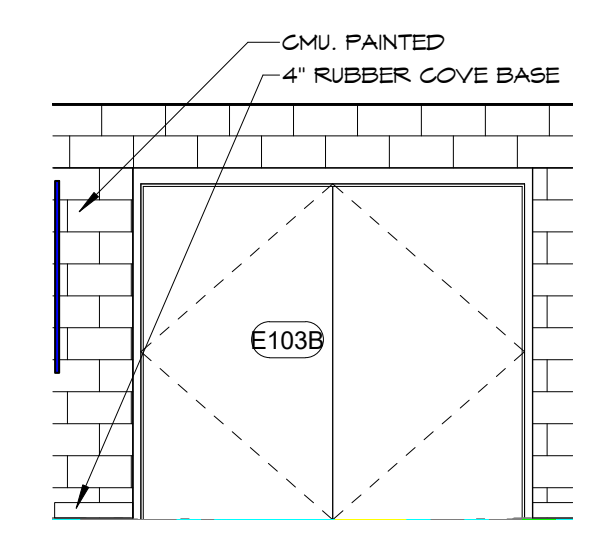
3 SOUTH WALL OF LINK
A2.03 1/4" = 1'-0"



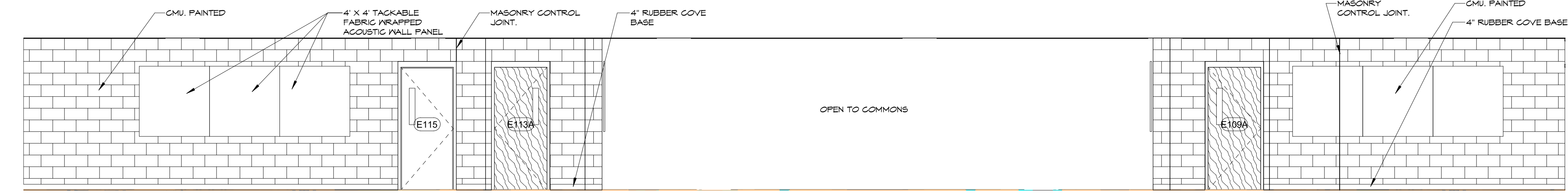
4 NORTH WALL OF LINK
A2.03 1/4" = 1'-0"



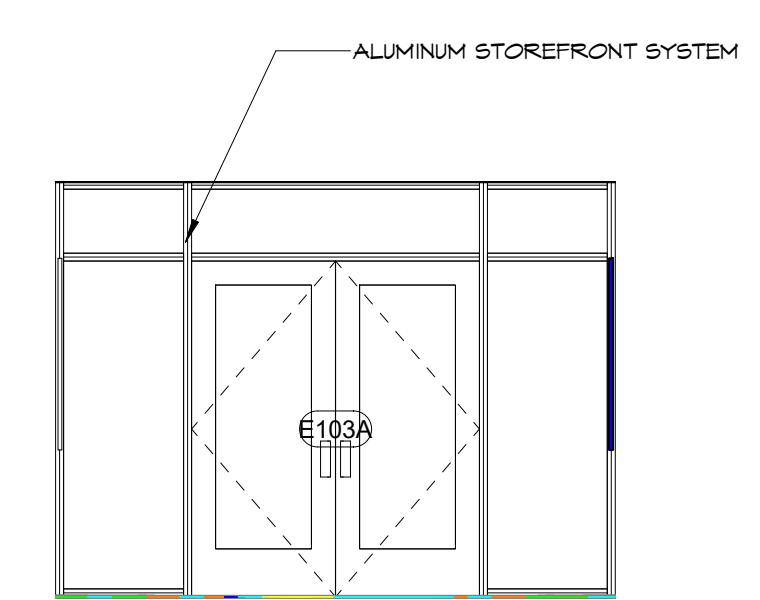
5 NORTH WALL OF CORRIDOR
A2.03 1/4" = 1'-0"



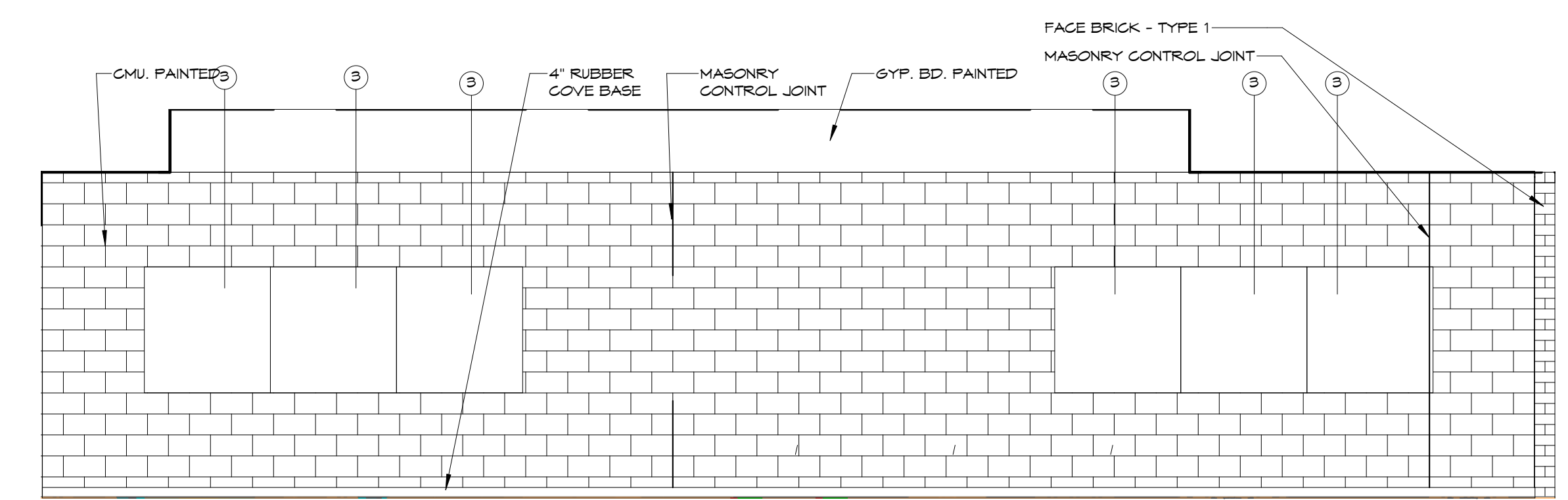
6 EAST WALL OF CORRIDOR
A2.03 1/4" = 1'-0"



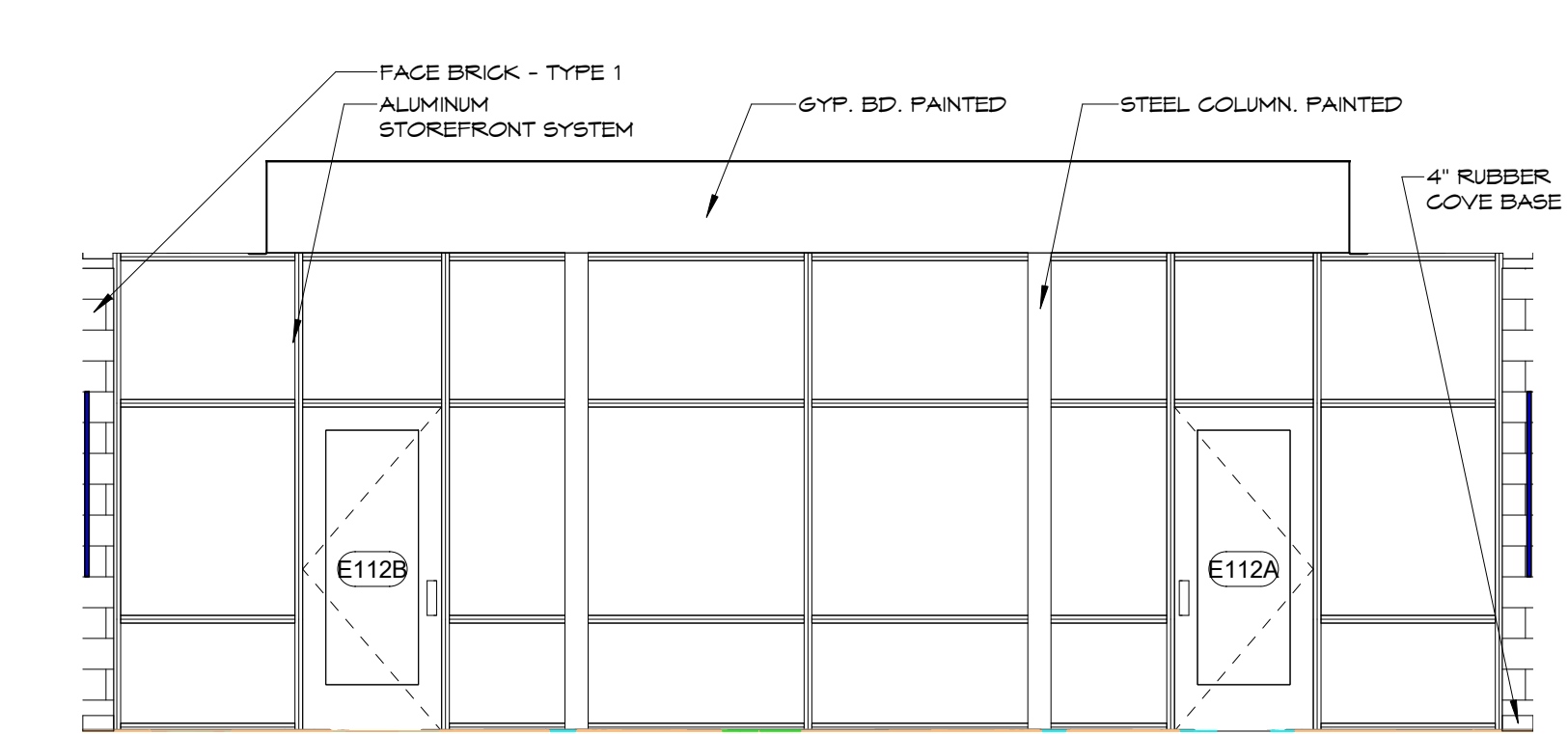
7 SOUTH WALL OF CORRIDOR
A2.03 1/4" = 1'-0"



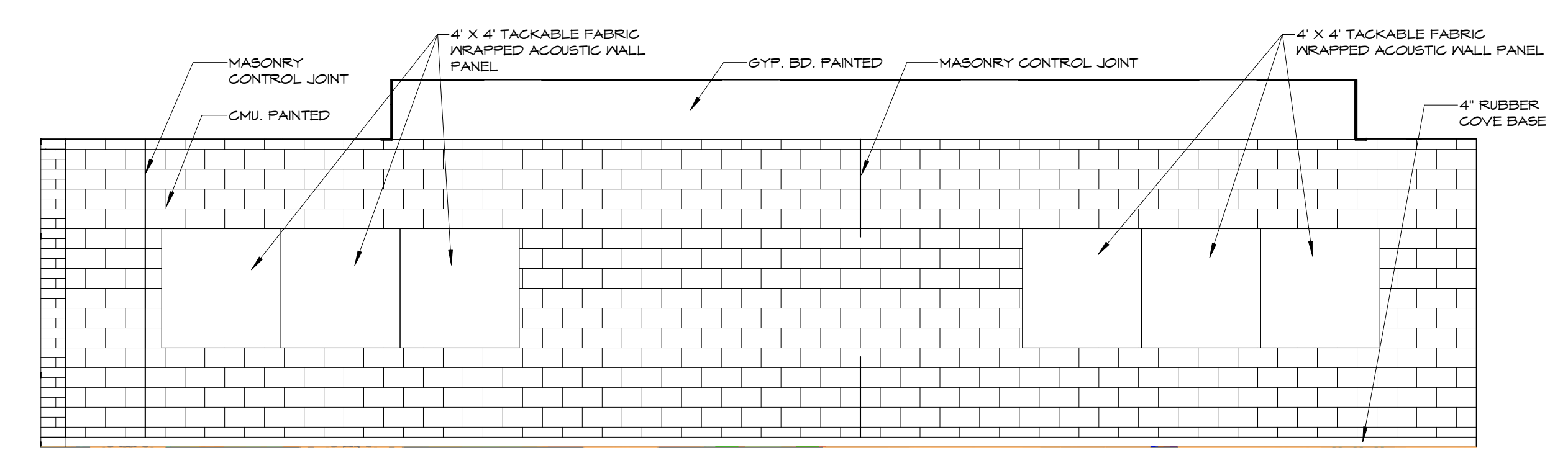
8 WEST WALL OF CORRIDOR
A2.03 1/4" = 1'-0"



9 EAST WALL OF COMMONS
A2.03 1/4" = 1'-0"



10 SOUTH WALL OF COMMONS
A2.03 1/4" = 1'-0"



11 WEST WALL OF COMMONS
A2.03 1/4" = 1'-0"

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Project Number: 16036

Date: 11/28/17

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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

INTERIOR ELEVATIONS

Sheet:

A2.03

Of:

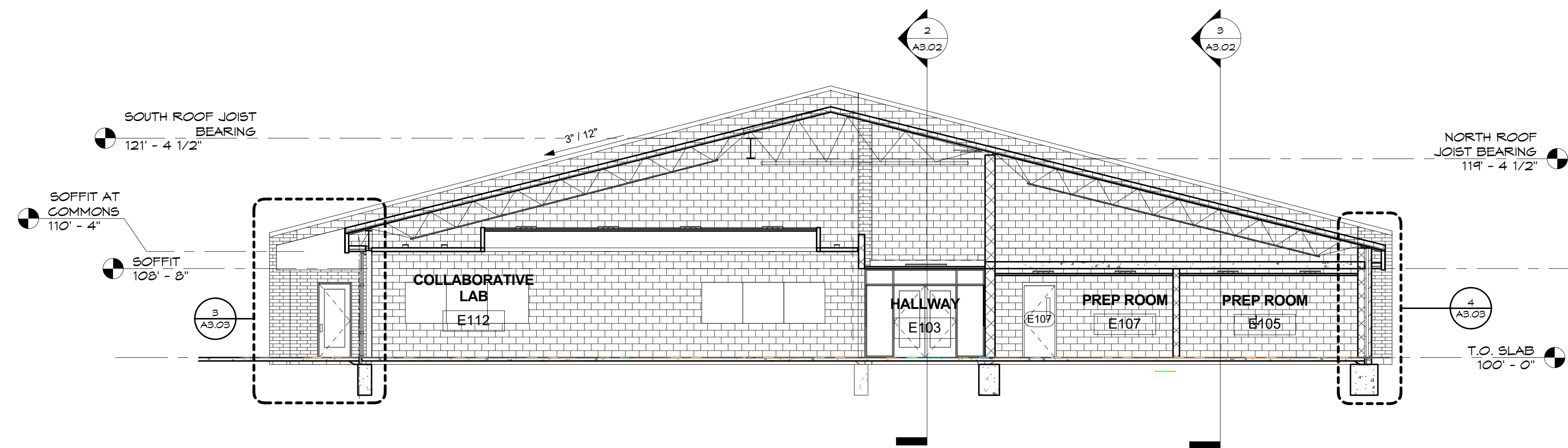
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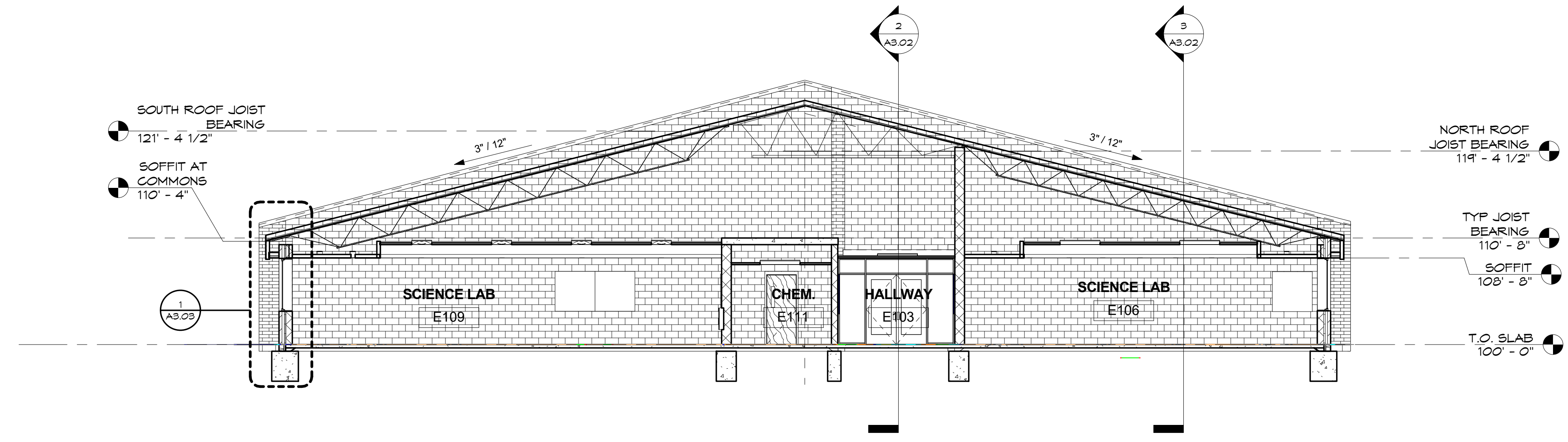
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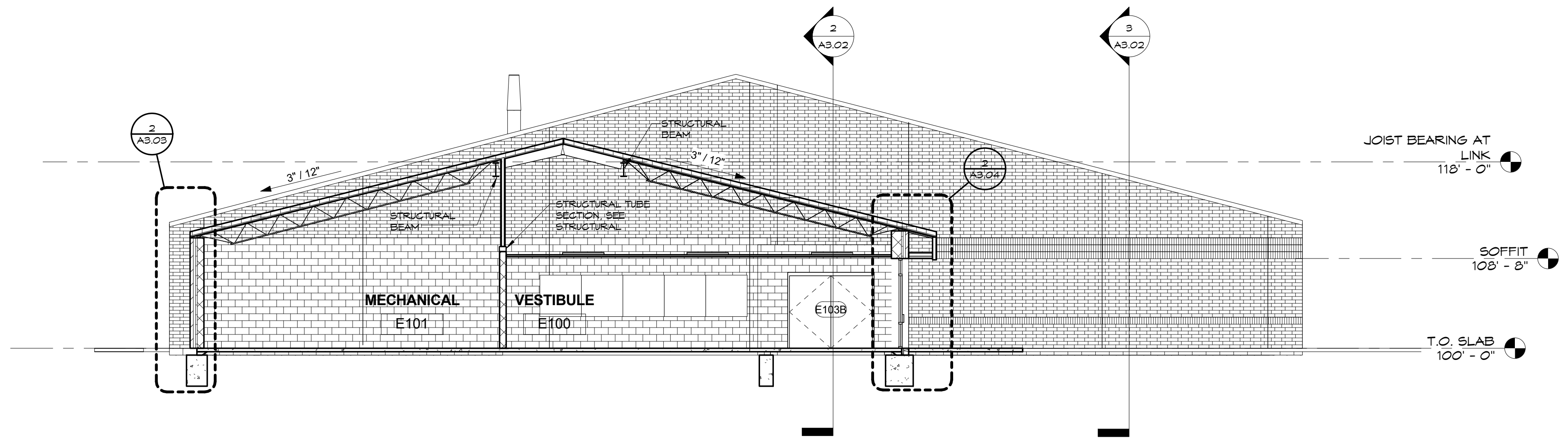
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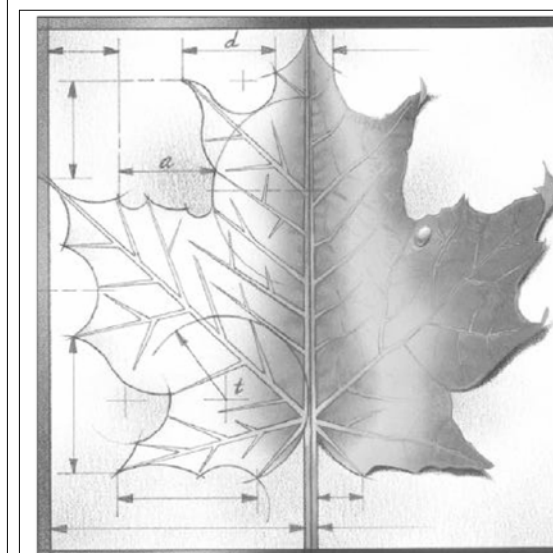
1 SECTION AT COMMONS
A3.01 1/8" = 1'-0"



2 SECTION AT LAB CLASSROOMS
A3.01 1/8" = 1'-0"



3 SECTION AT LINK
A3.01 1/8" = 1'-0"



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Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:
BUILDING SECTIONS

Sheet:
A3.01

OF:

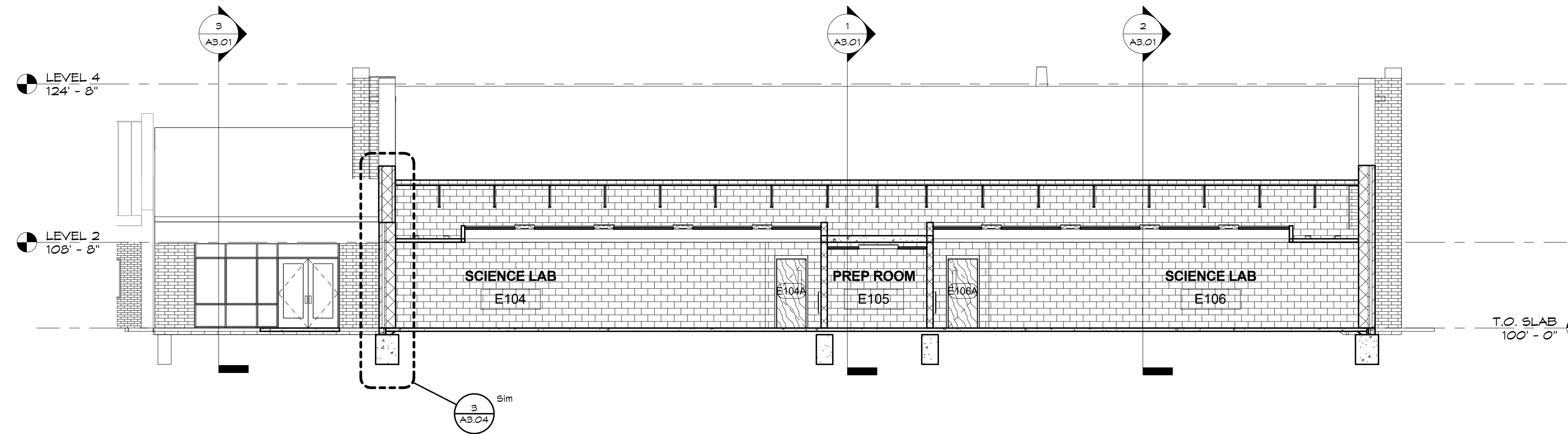
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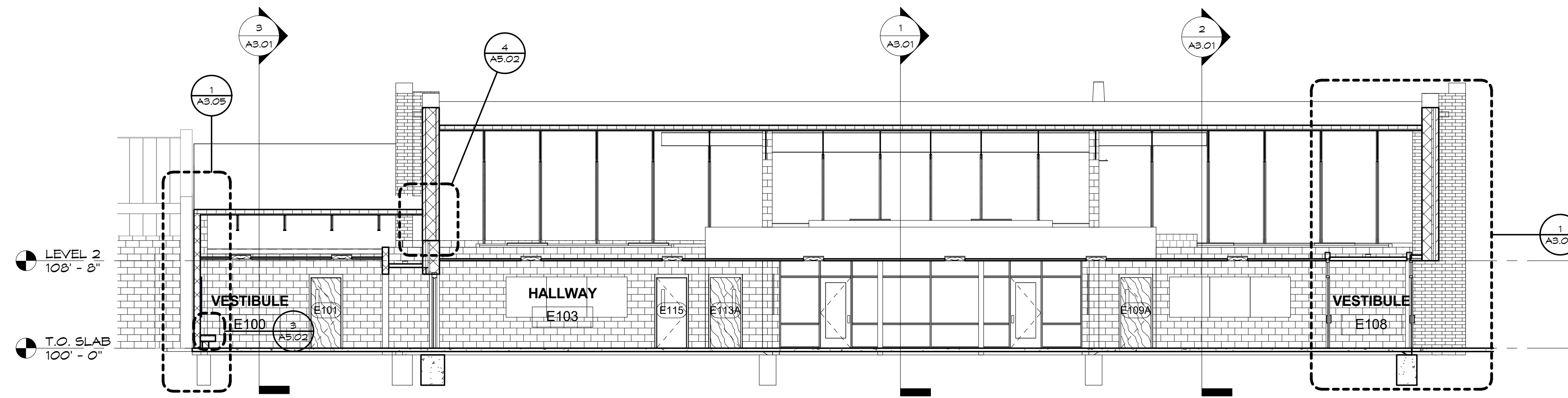
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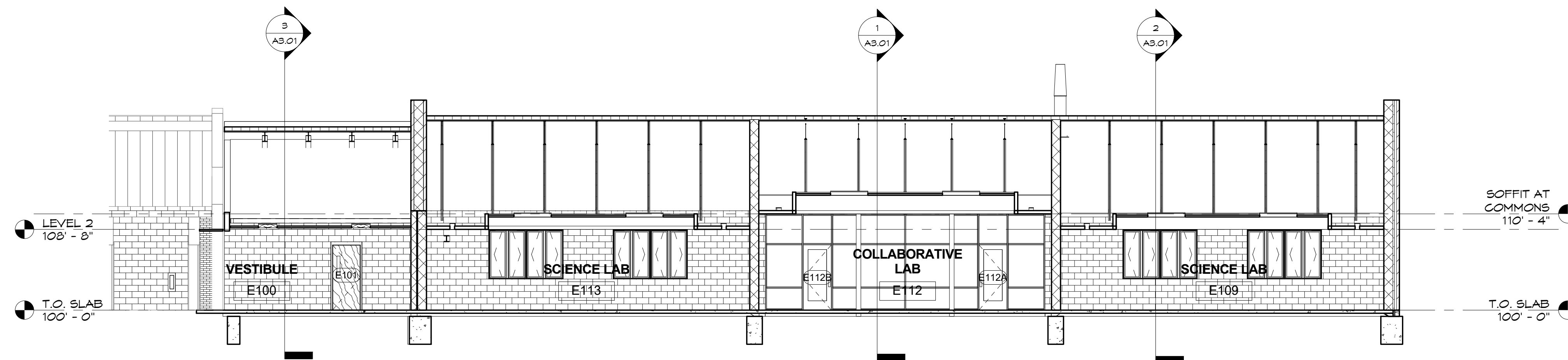
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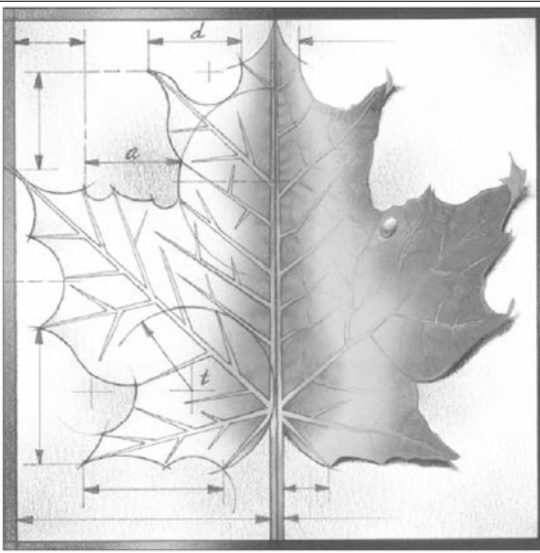
3 CROSS SECTION AT NORTH CLASSROOMS
A3.02
1/8" = 1'-0"



2 SECTION AT CORRIDOR
A3.02
1/8" = 1'-0"



1 CROSS SECTION AT COMMONS
A3.02
1/8" = 1'-0"



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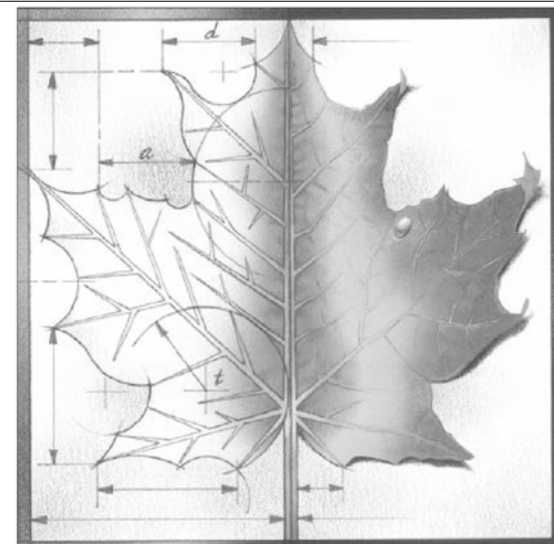
Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:

BUILDING SECTIONS

Sheet:
A3.02

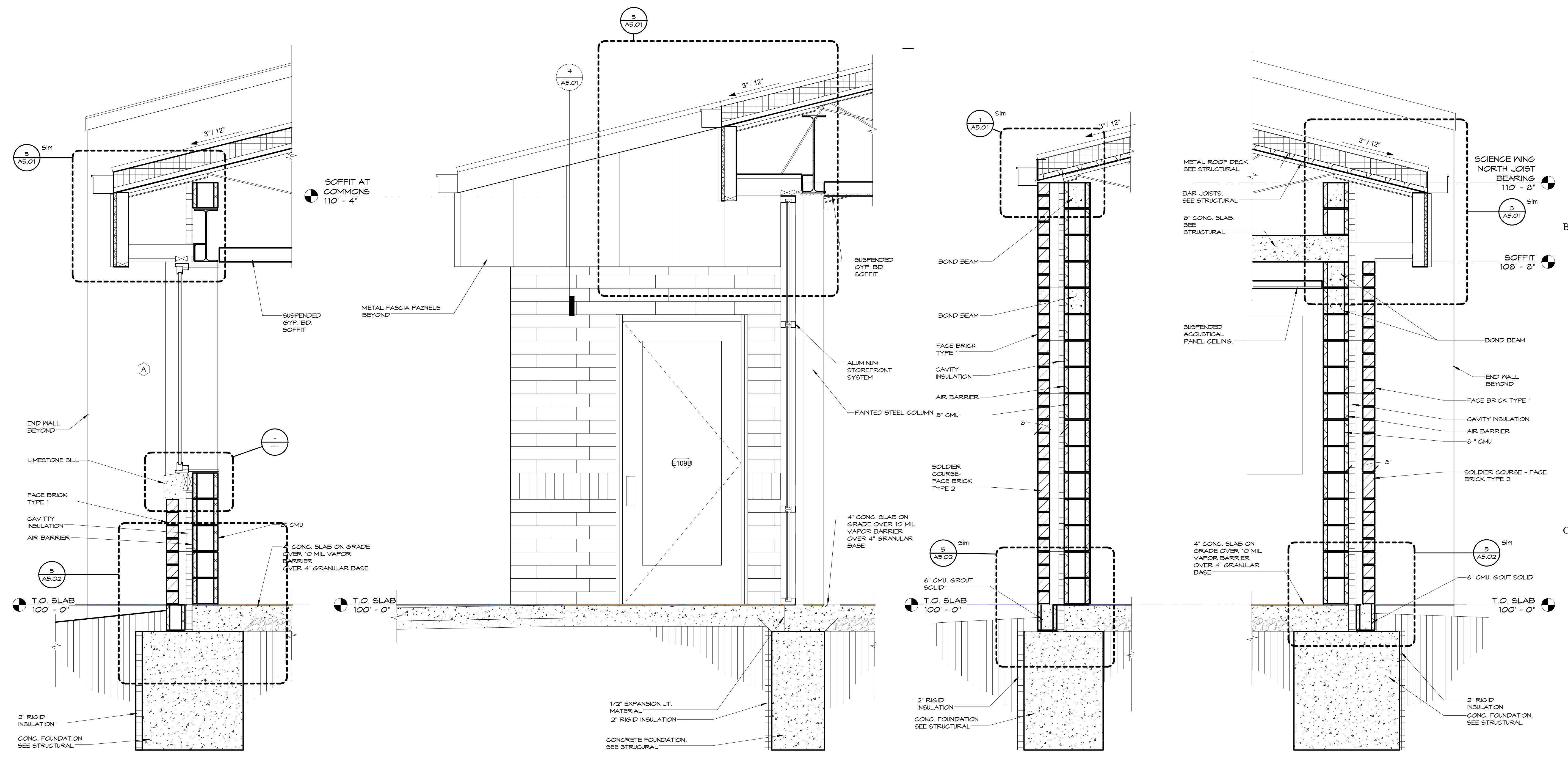
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1 SOUTH WALL AT SCIENCE CLASSROOM
 A3.03 3/4" = 1'-0"

3 SOUTH WALL AT COMMONS
 A3.03 3/4" = 1'-0"

2 SOUTH WALL AT LINK
 A3.03 3/4" = 1'-0"

4 SECTION AT NORTH WALL
 A3.03 3/4" = 1'-0"

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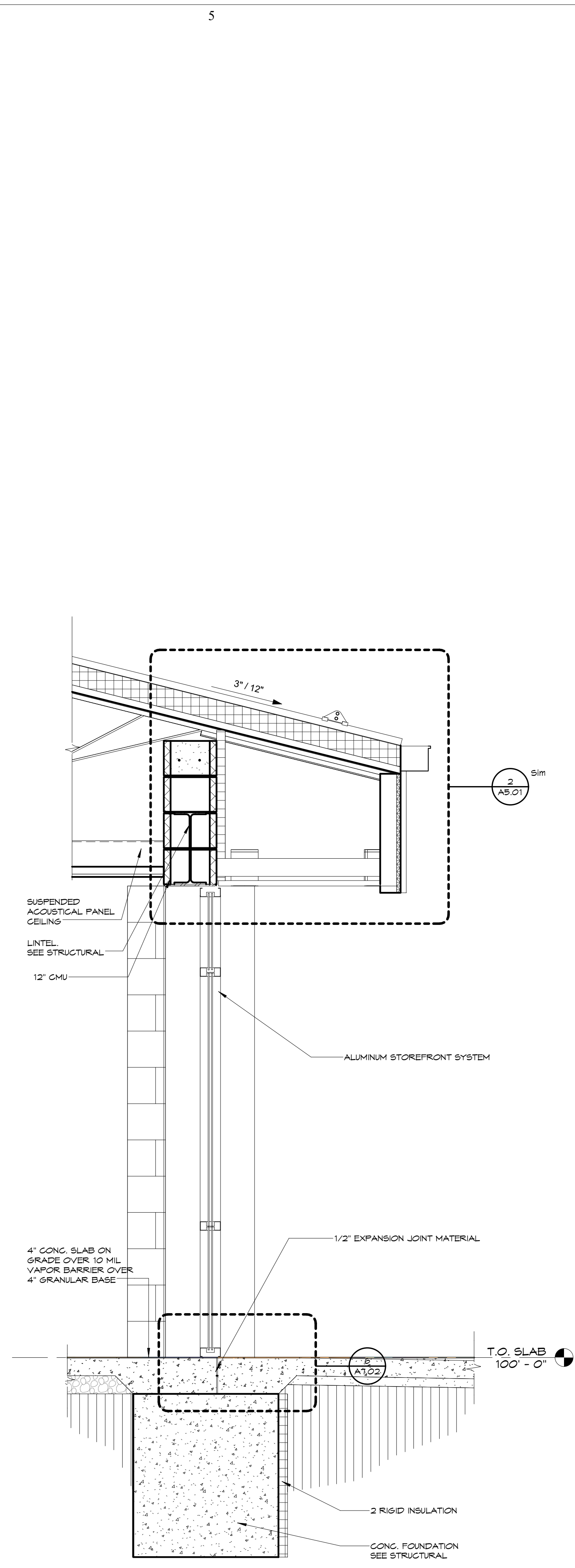
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WALL SECTIONS

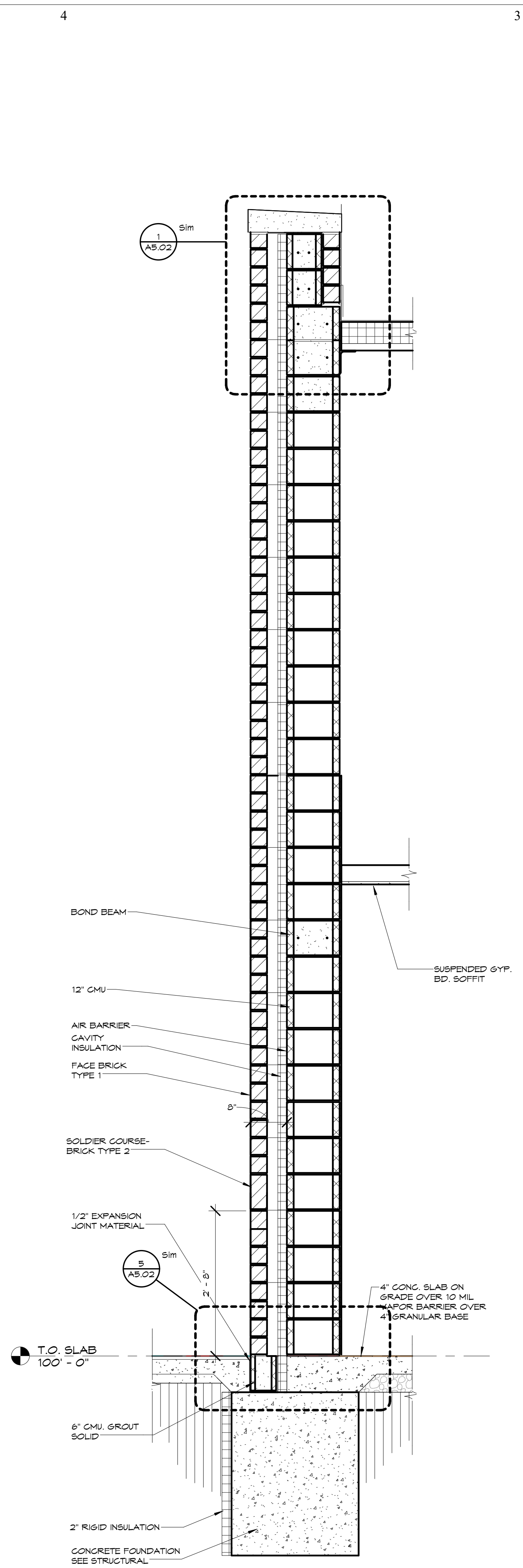
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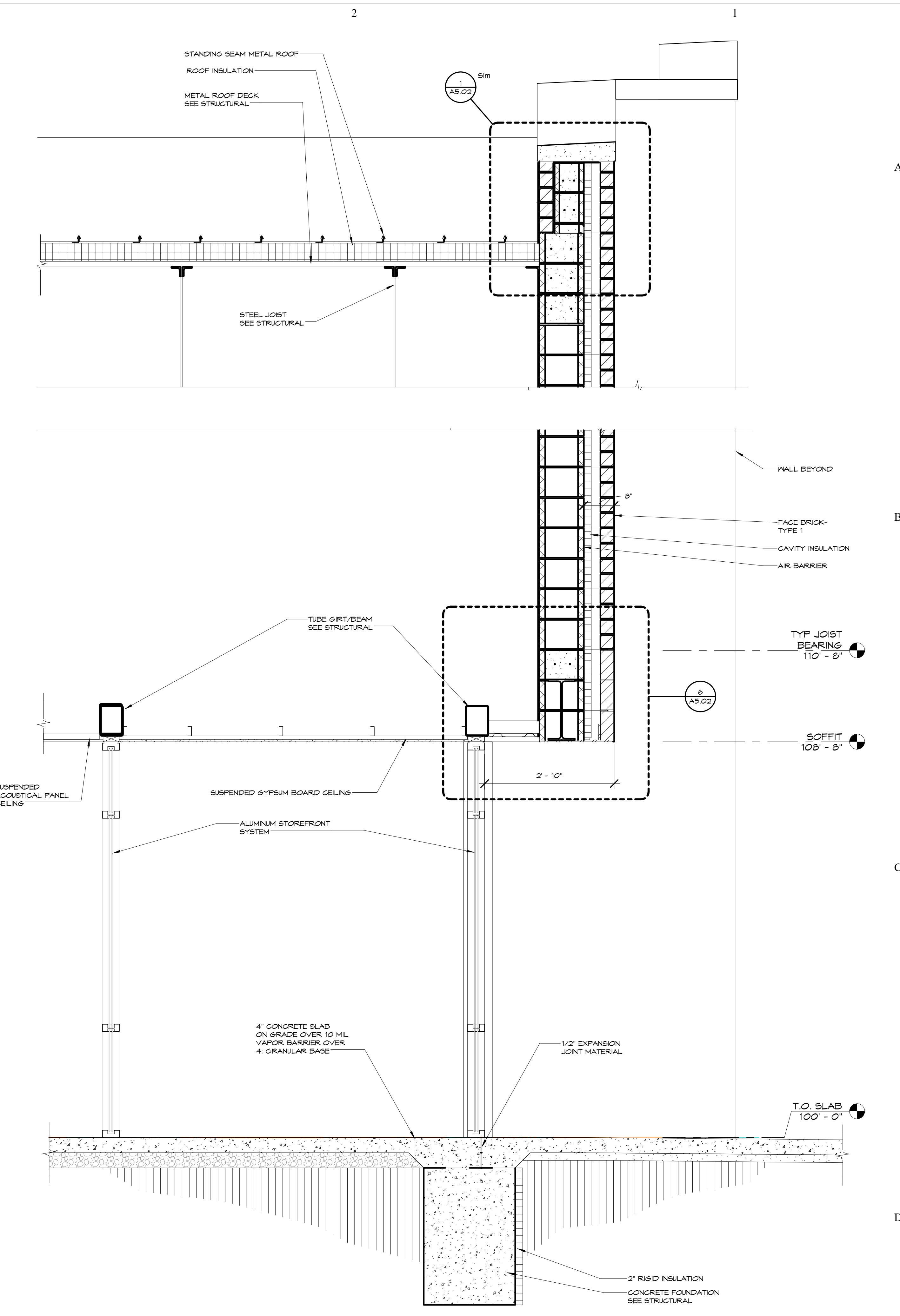
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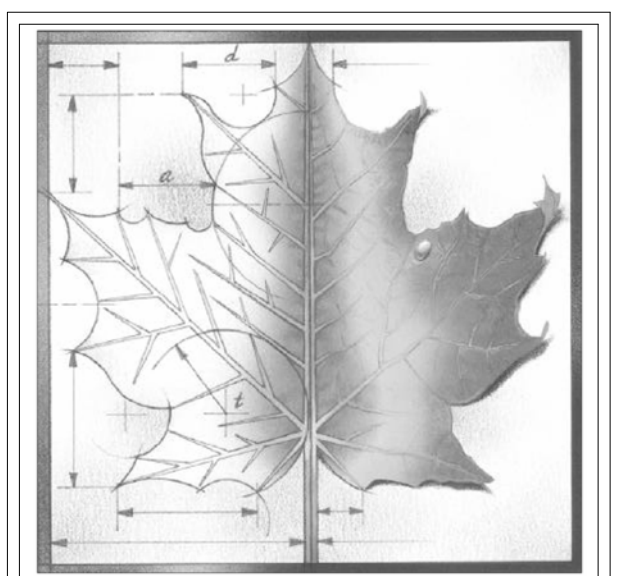
2 NORTH WALL AT LINK
A3.04 3/4" = 1'-0"



3 END WALL SECTION
A3.04 3/4" = 1'-0"



1 Section 1
A3.04 3/4" = 1'-0"



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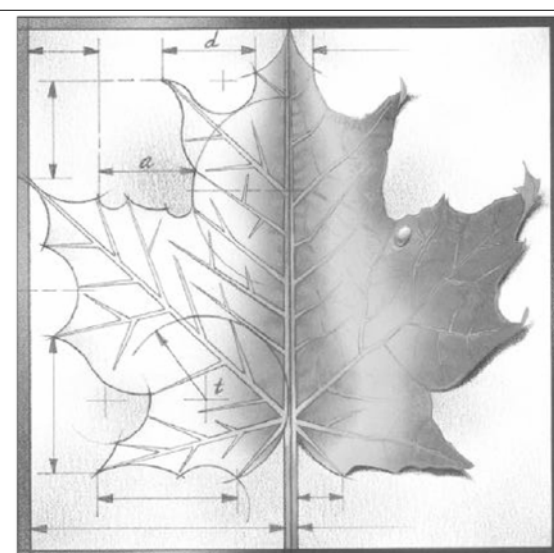
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Sheet Title:
WALL SECTIONS

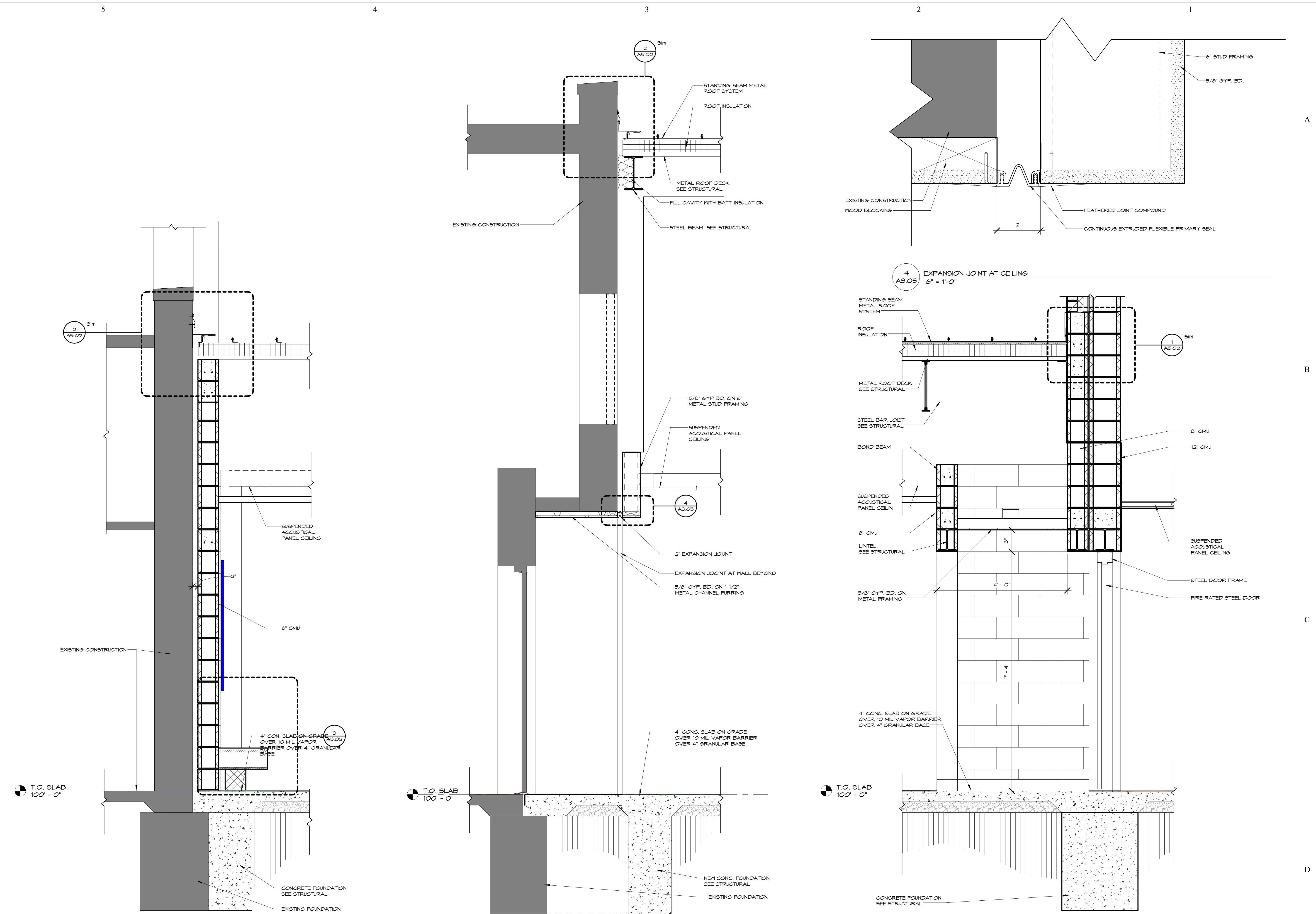
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A3.04
OF



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1 EAST WALL OF VESTIBULE
A3.05 3/4" = 1'-0"

2 SECTION AT EXISTING DOOR
A3.05 3/4" = 1'-0"

3 SECTION AT FIRE DOOR
A3.05 3/4" = 1'-0"

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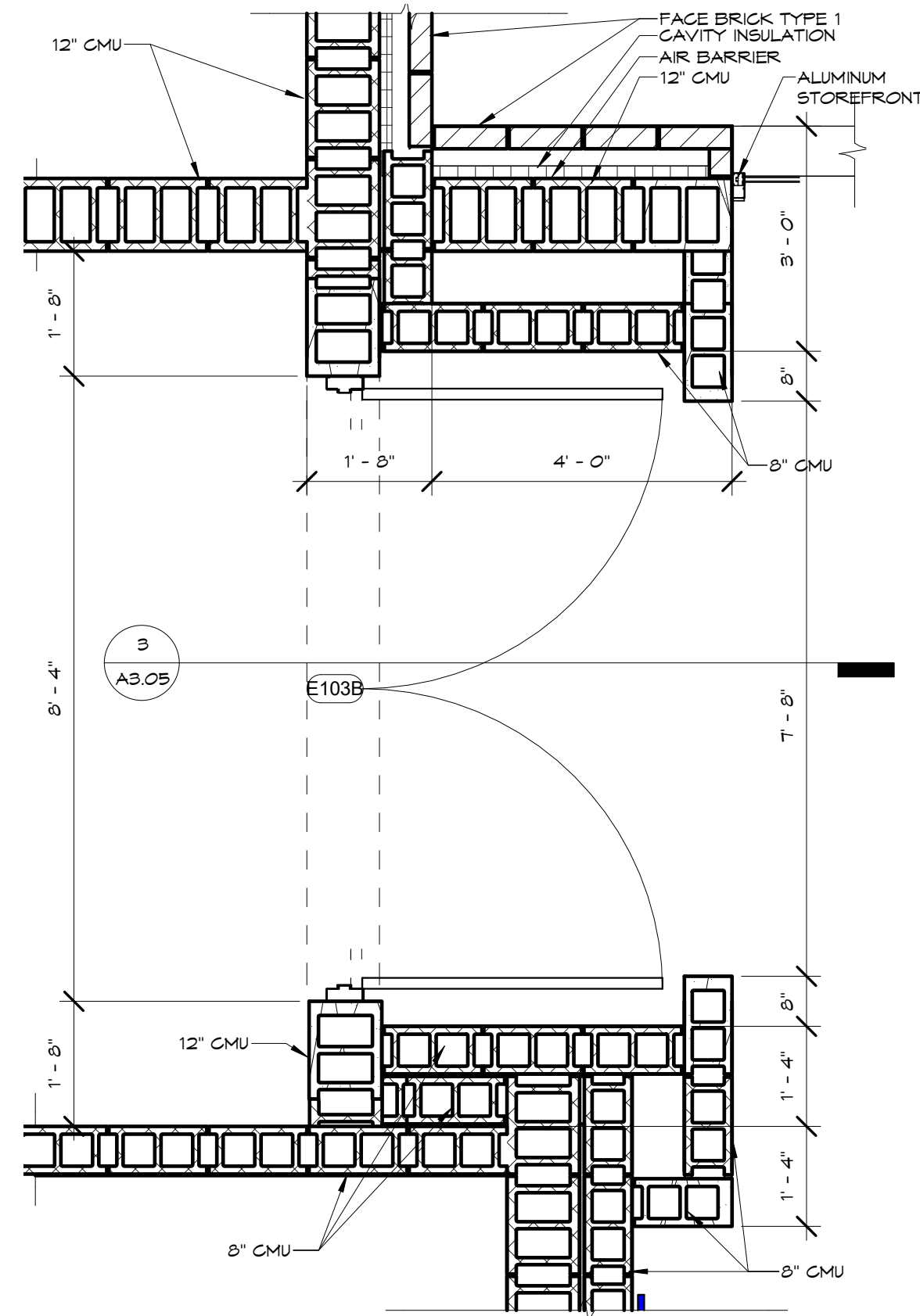
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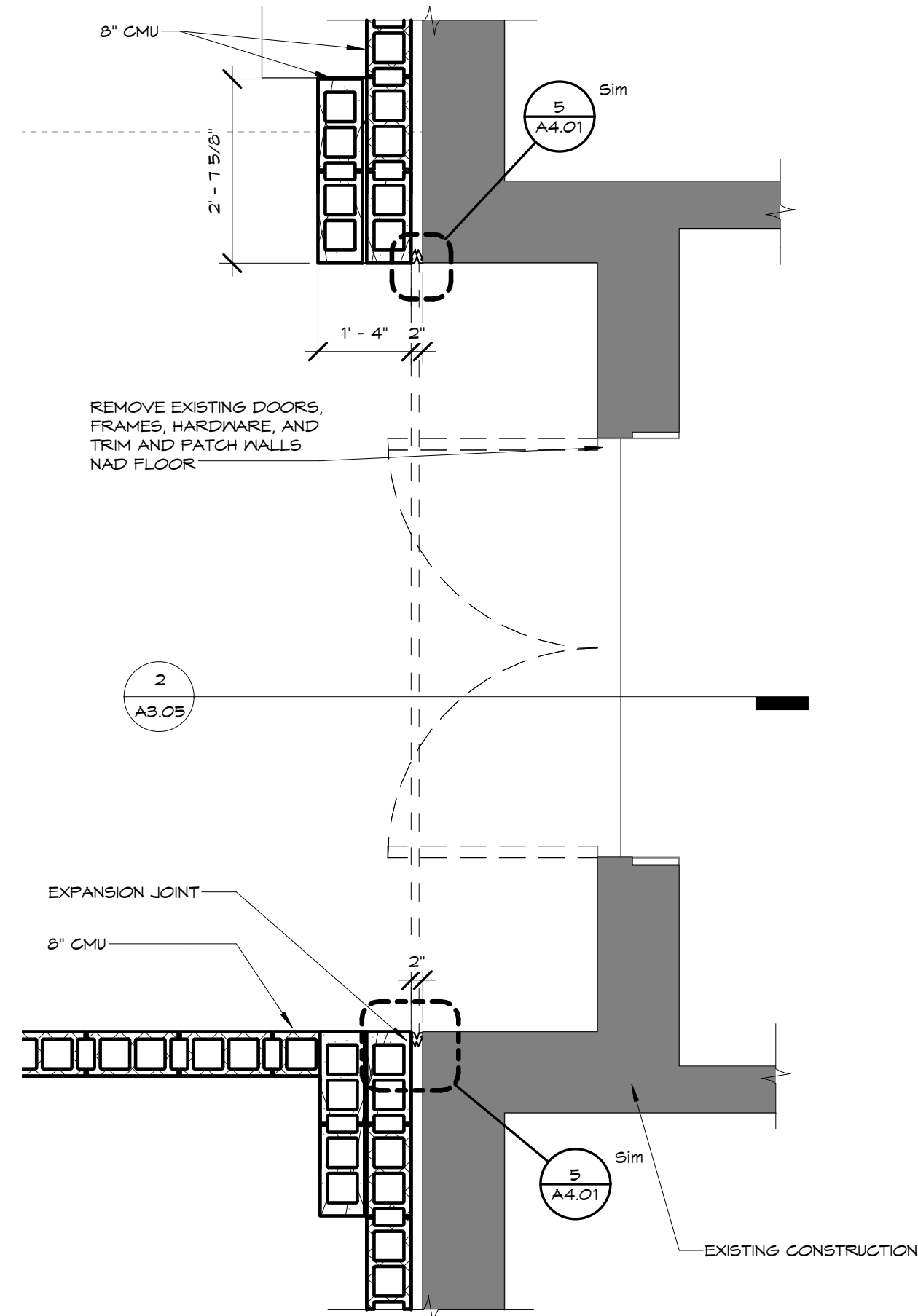
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WALL SECTIONS

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A3.05

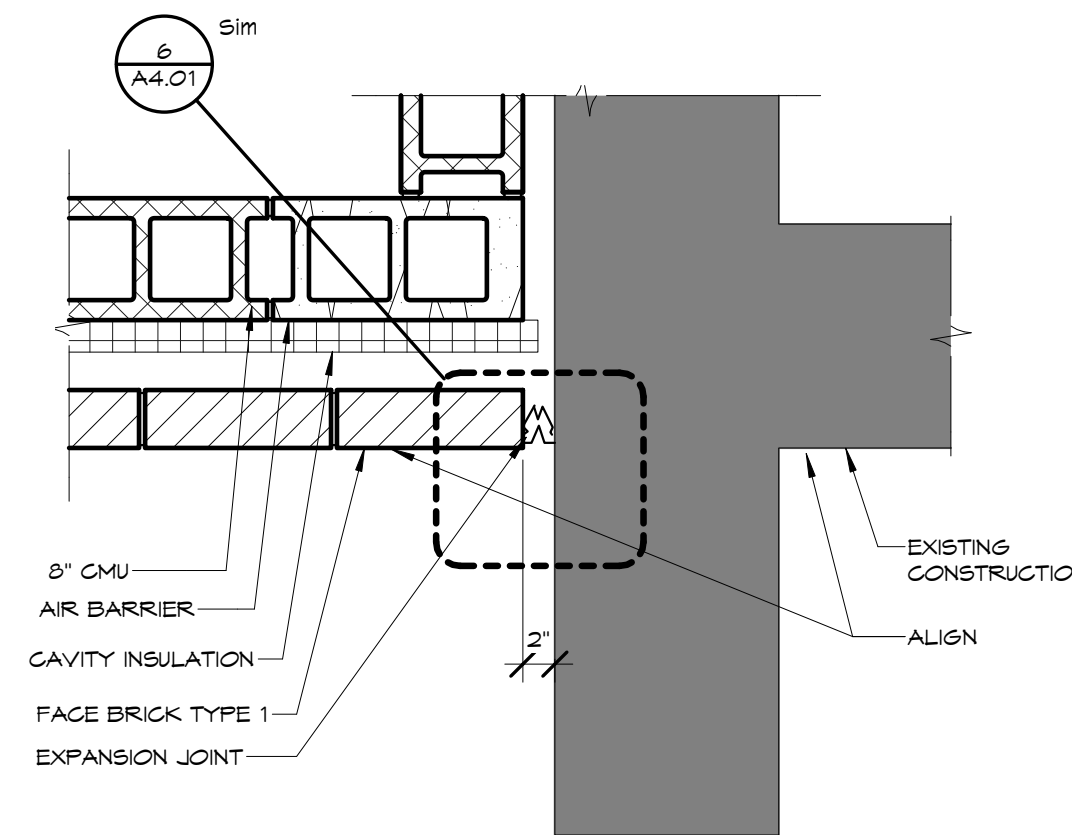
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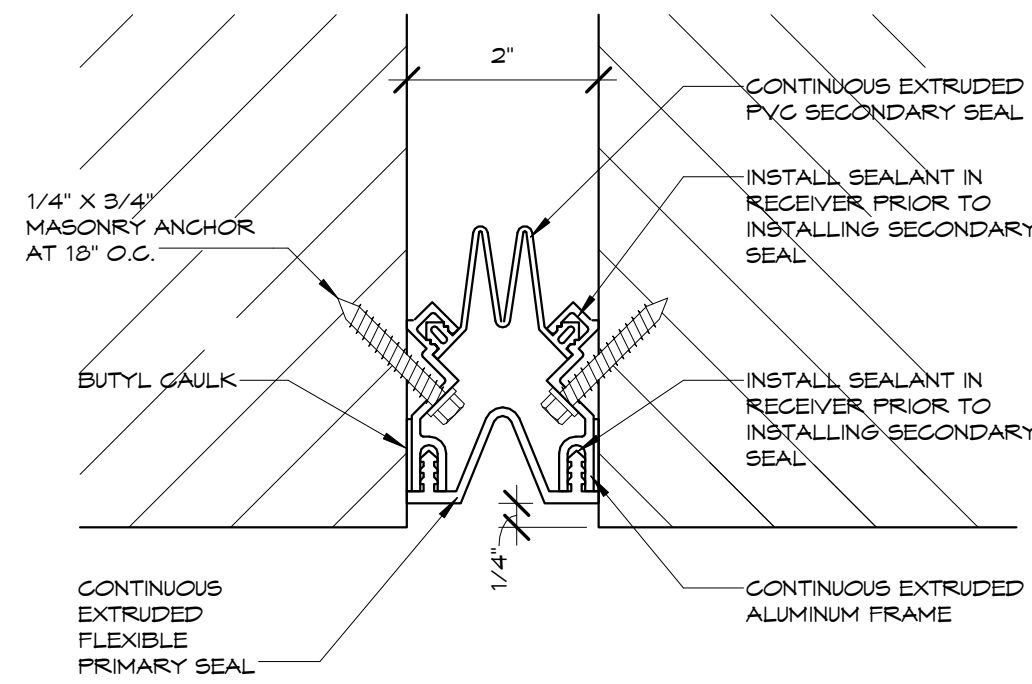
1 ENLARGED PLAN AT DOOR E103B
1/2" = 1'-0"



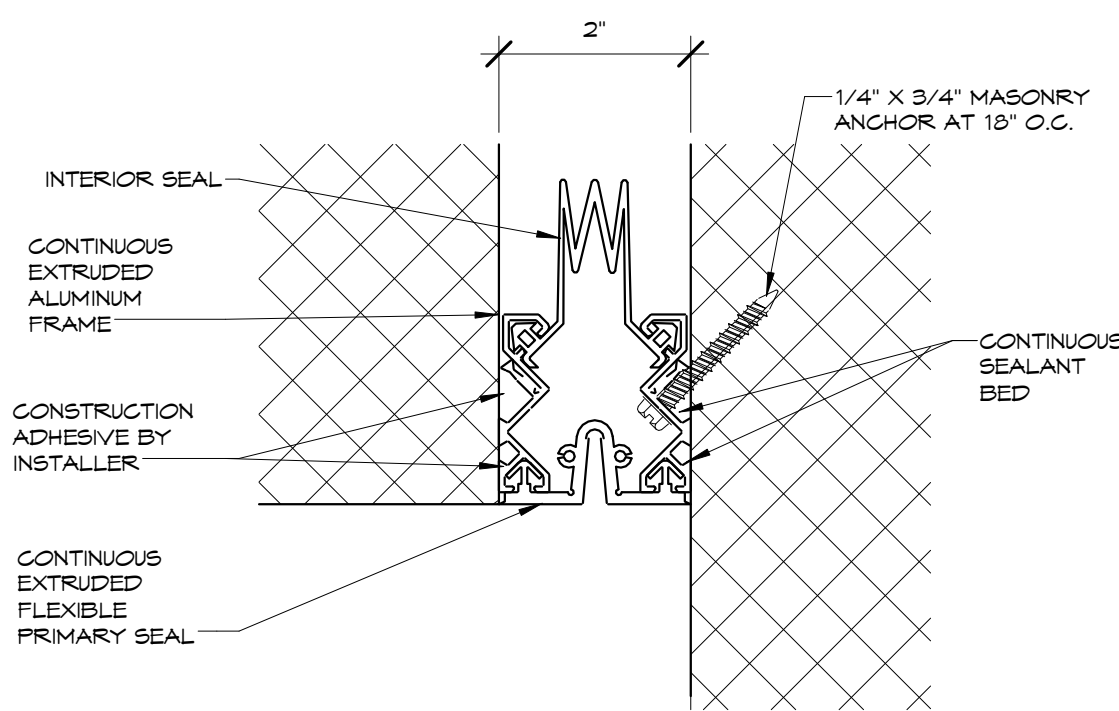
2 ENLARGED PLAN AT VESTIBULE E100
1/2" = 1'-0"



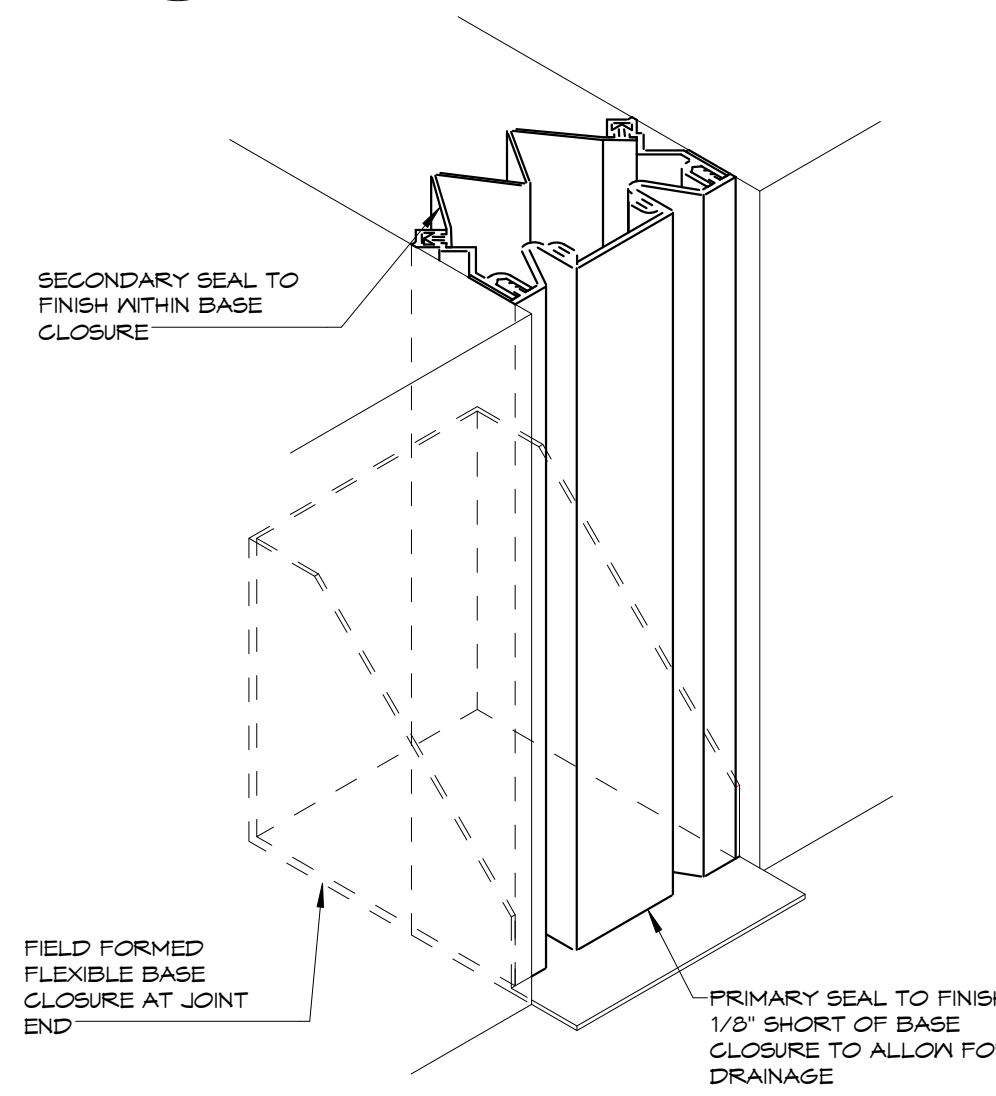
3 ENLARGED PLAN - EXTERIOR VERTICAL EXPANSION JOINT
1" = 1'-0"



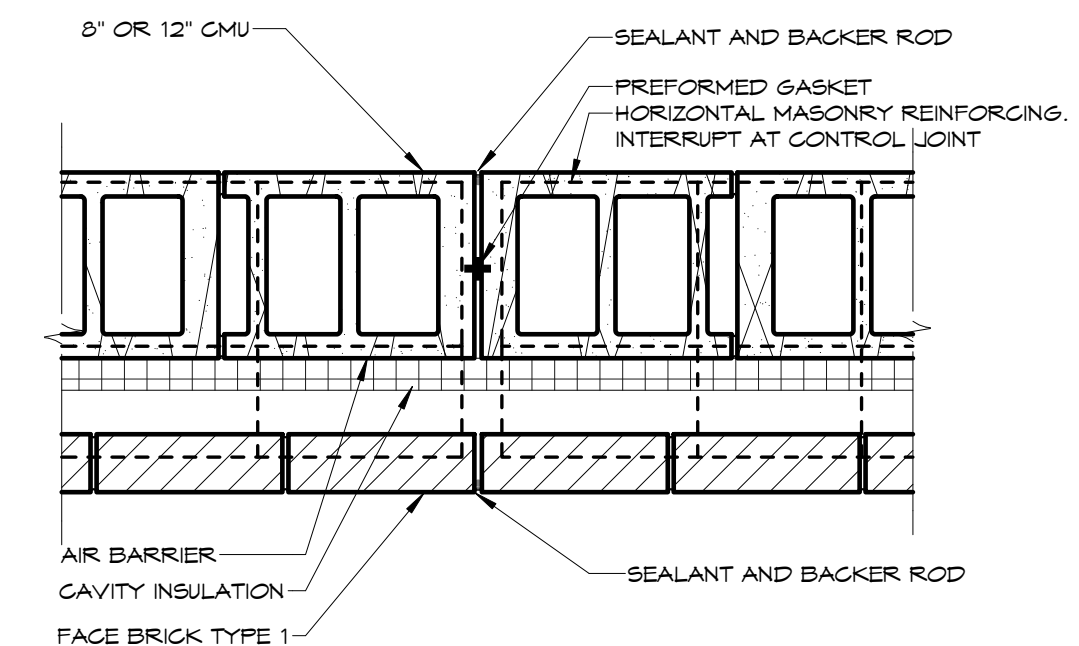
5 EXPANSION JOINT IN MASONRY WALL/WALL
6" = 1'-0"



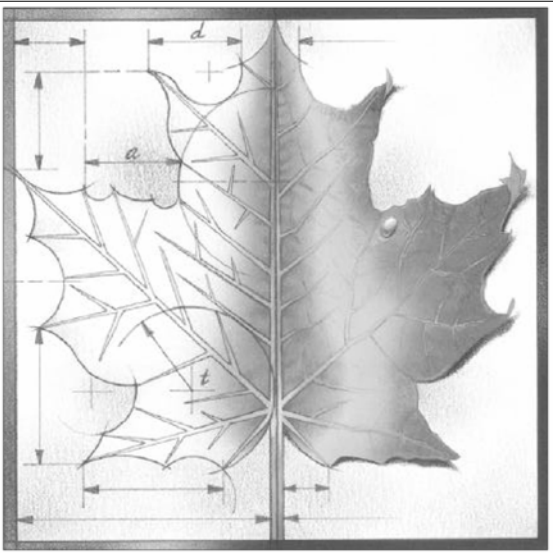
6 EXPANSION JOINT CORNER WALL/WALL
6" = 1'-0"



7 EXPANSION JOINT CLOSING AT FLOOR
6" = 1'-0"



8 PLAN DETAIL AT TYPICAL MASONRY CONTROL JOINT
1" = 1'-0"



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Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

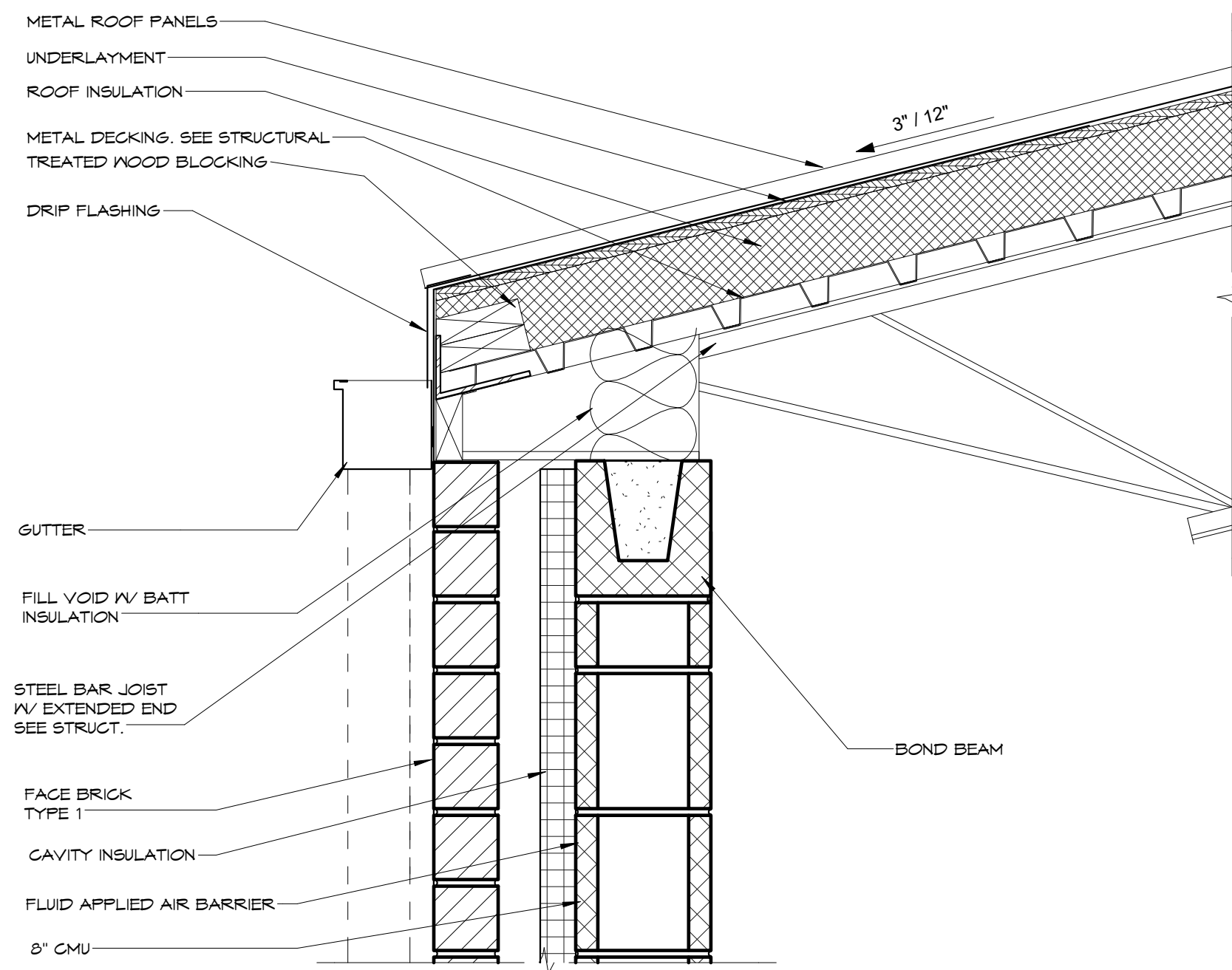
Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

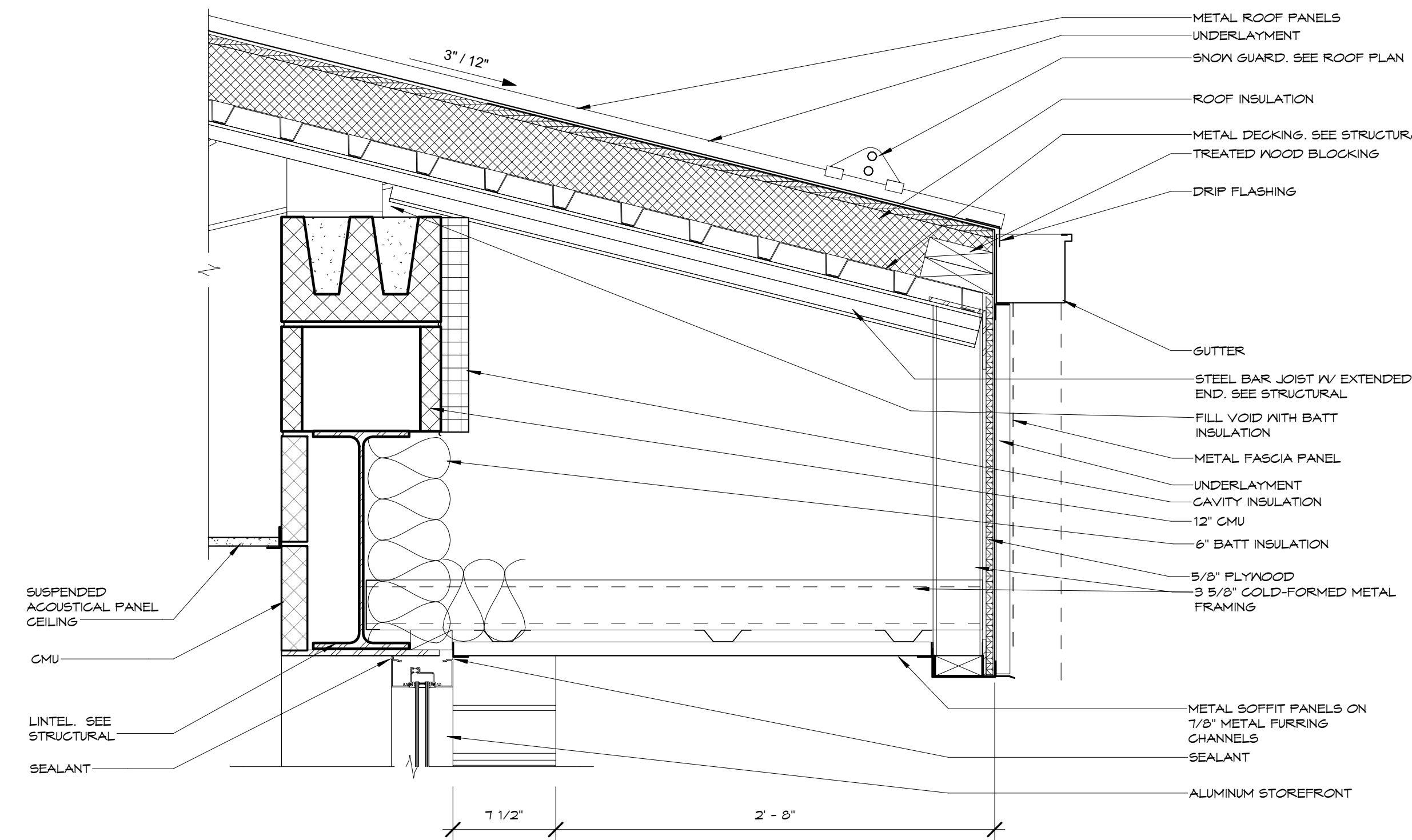
ENLARGED PLANS

Sheet: **A4.01**

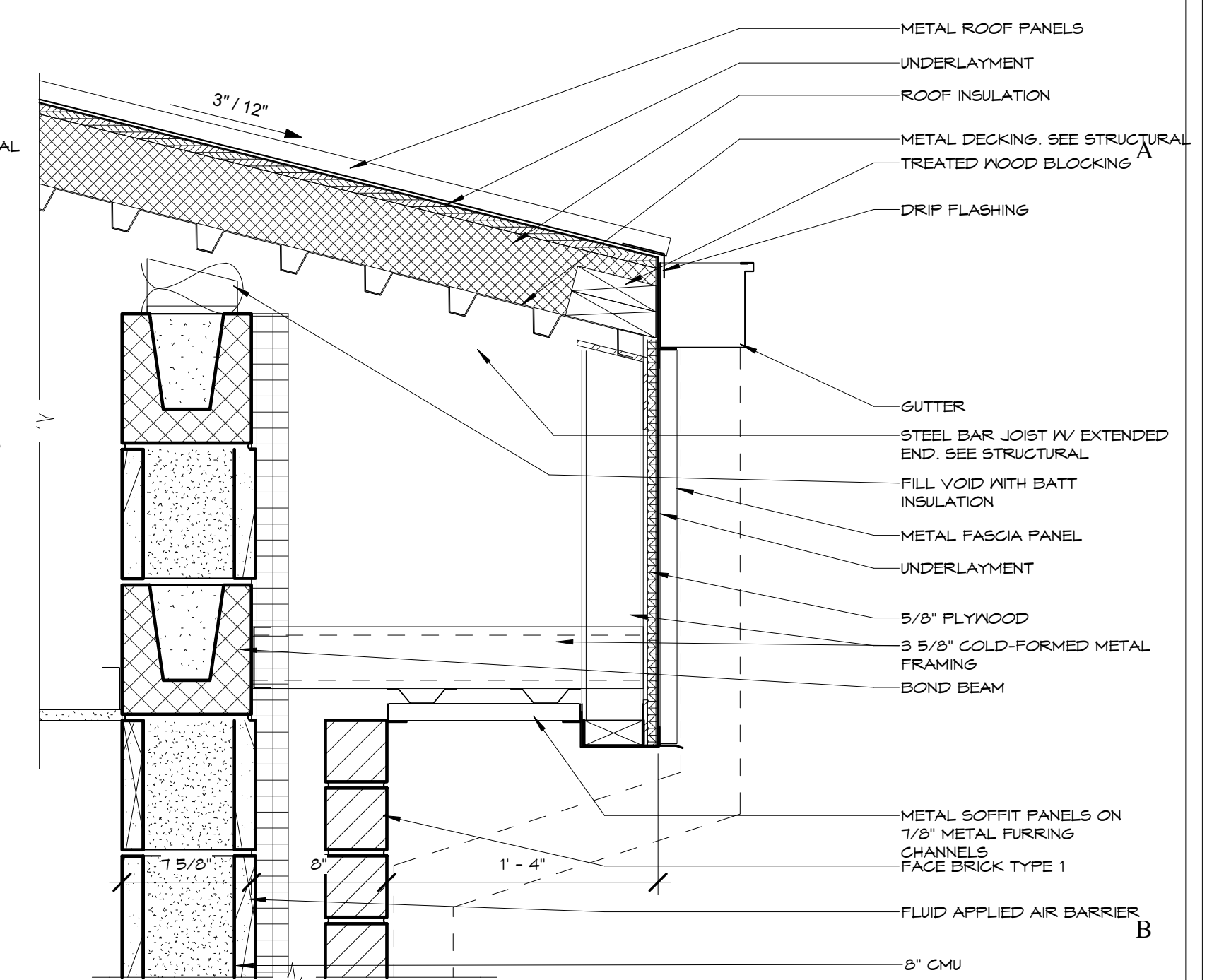
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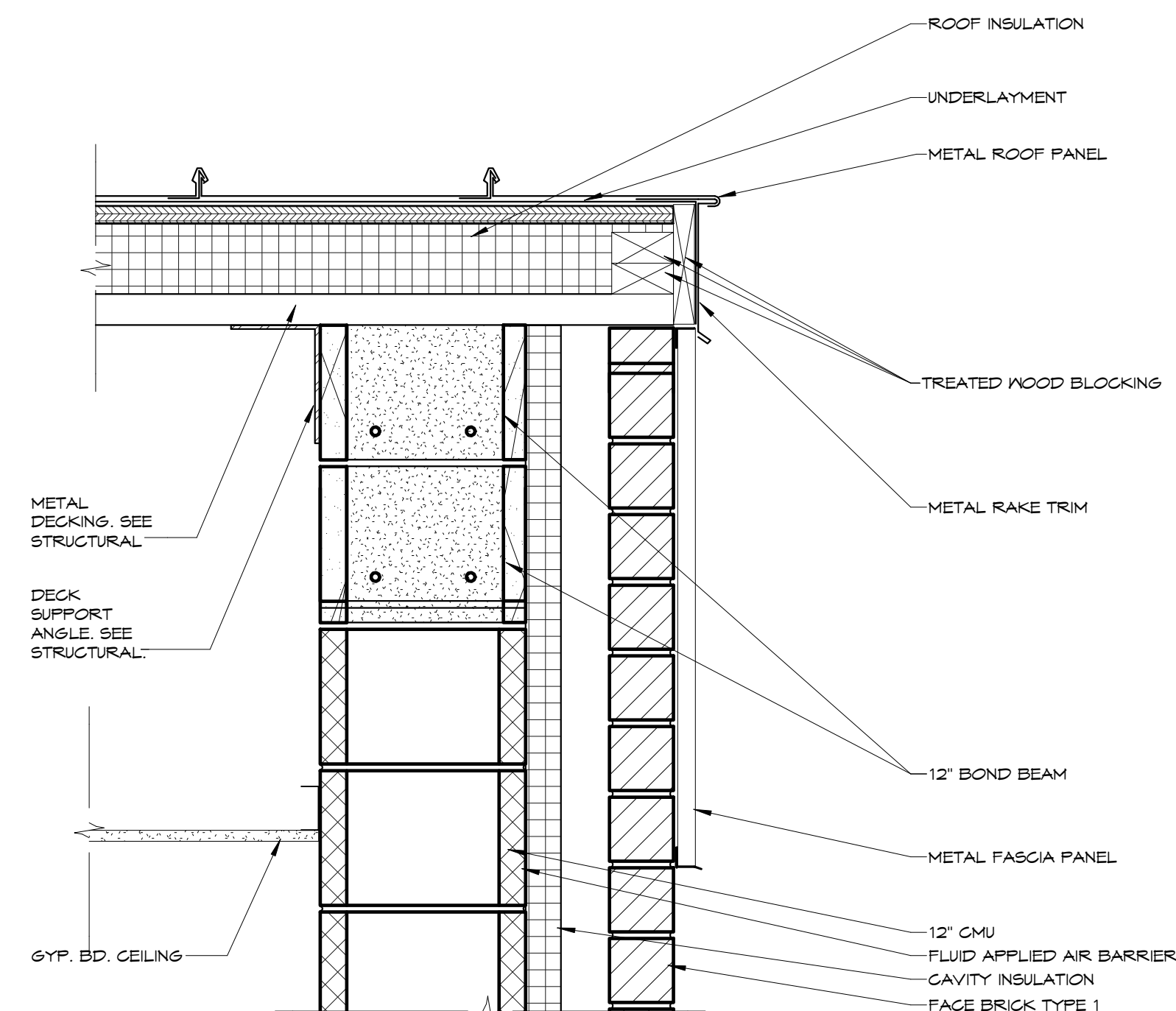
1 SOUTH EAVE AT CONNECTING LINK
A5.01 1 1/2" = 1'-0"



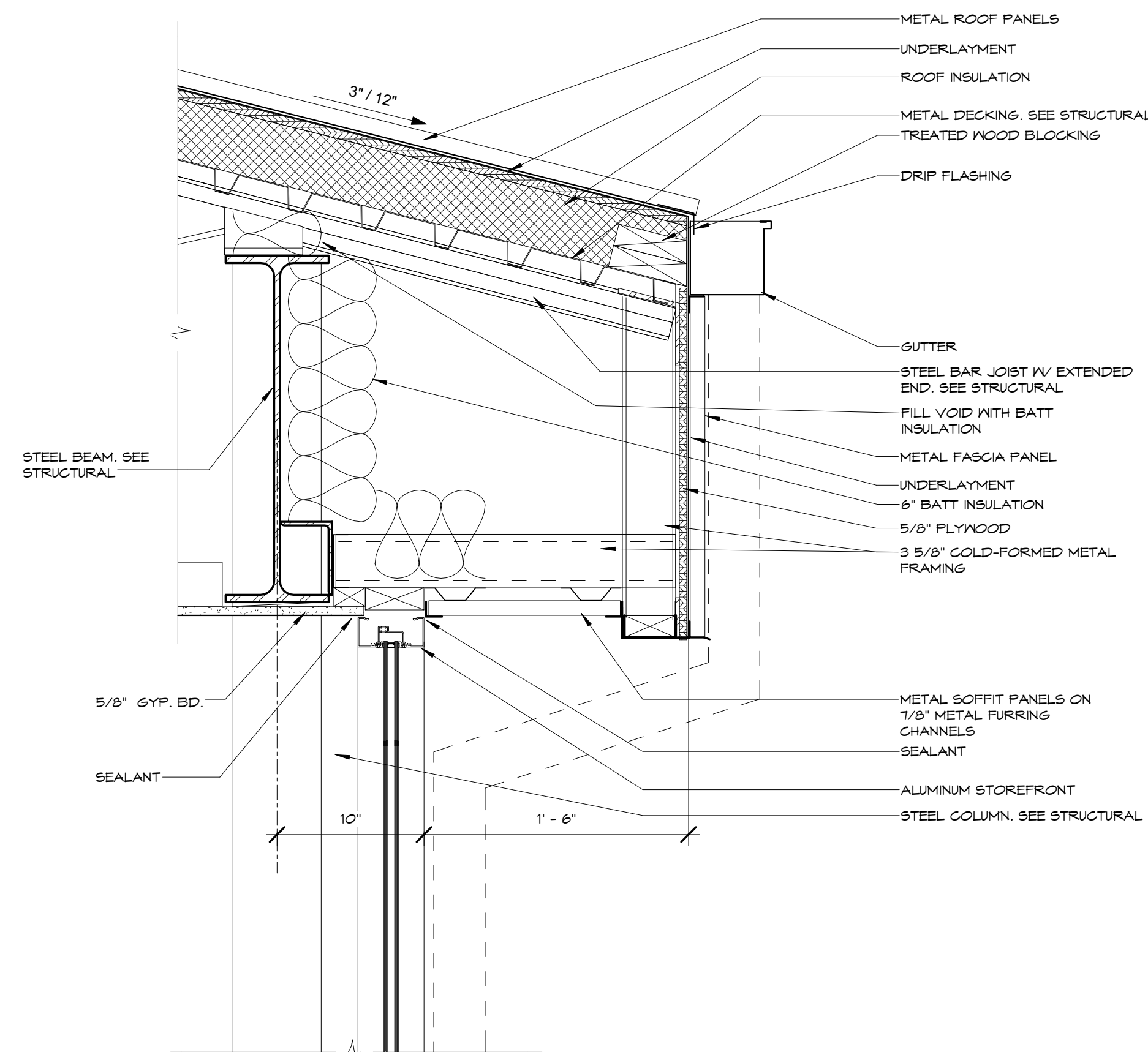
2 FASCIA AT ENTRY ROOF
A5.01 1 1/2" = 1'-0"



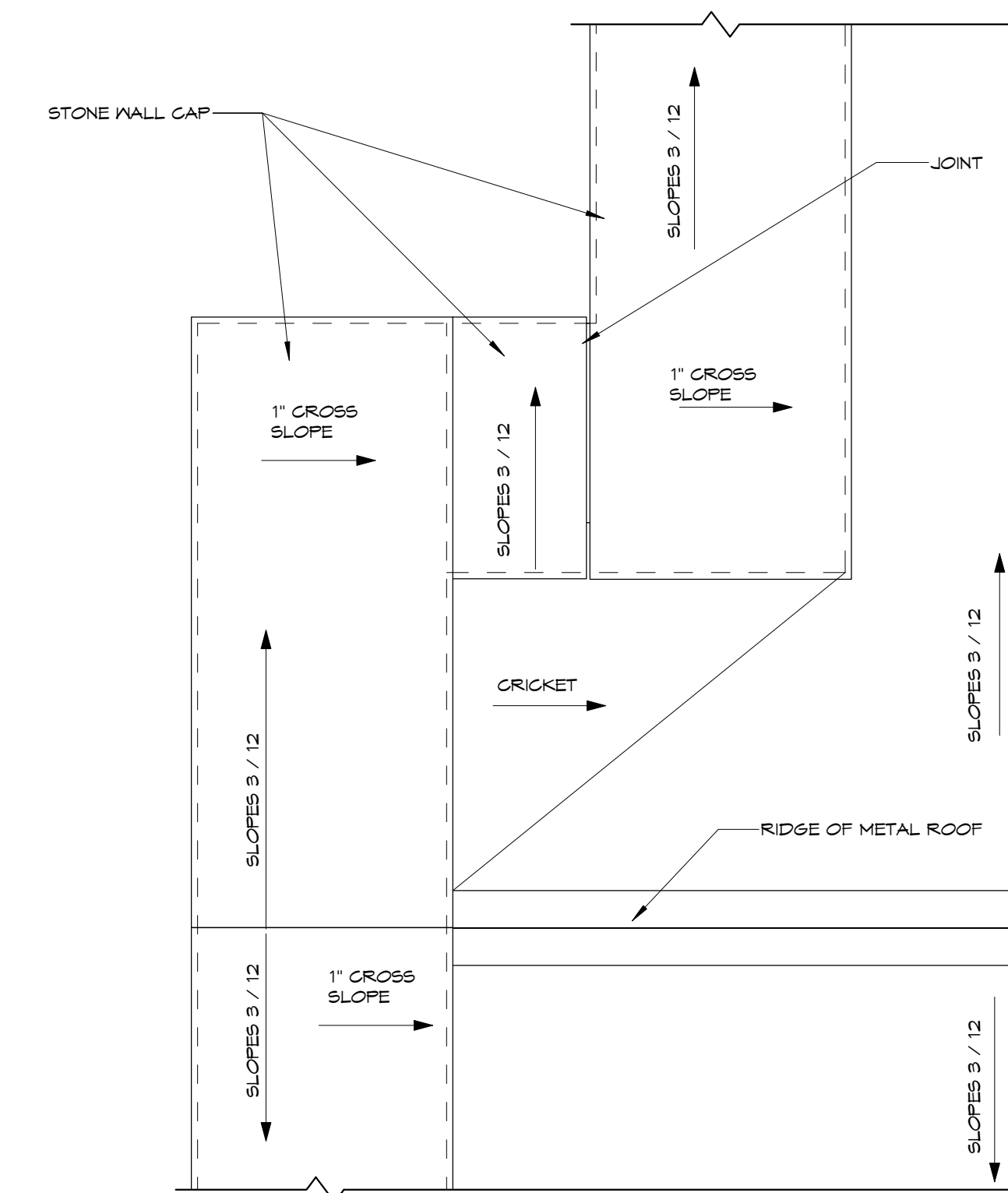
3 ROOF EDGE AT METAL FASCIA
A5.01 1 1/2" = 1'-0"



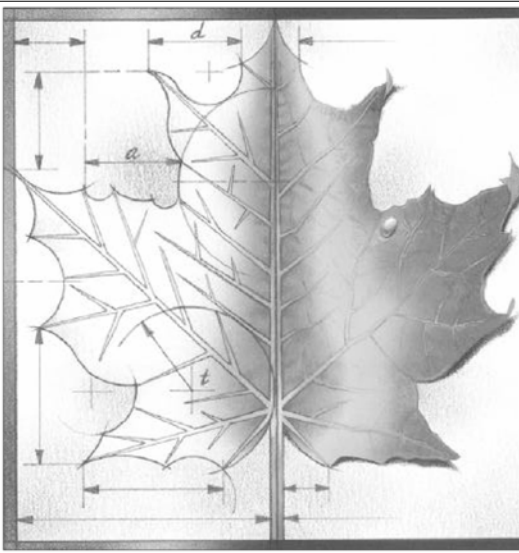
4 FASCIA AT SIDEWALL
A5.01 1 1/2" = 1'-0"



5 FASCIA AT COMMONS
A5.01 1 1/2" = 1'-0"



6 ROOF PLAN DETAIL AT OFFSET PARAPETS
A5.01 1" = 1'-0"



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Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

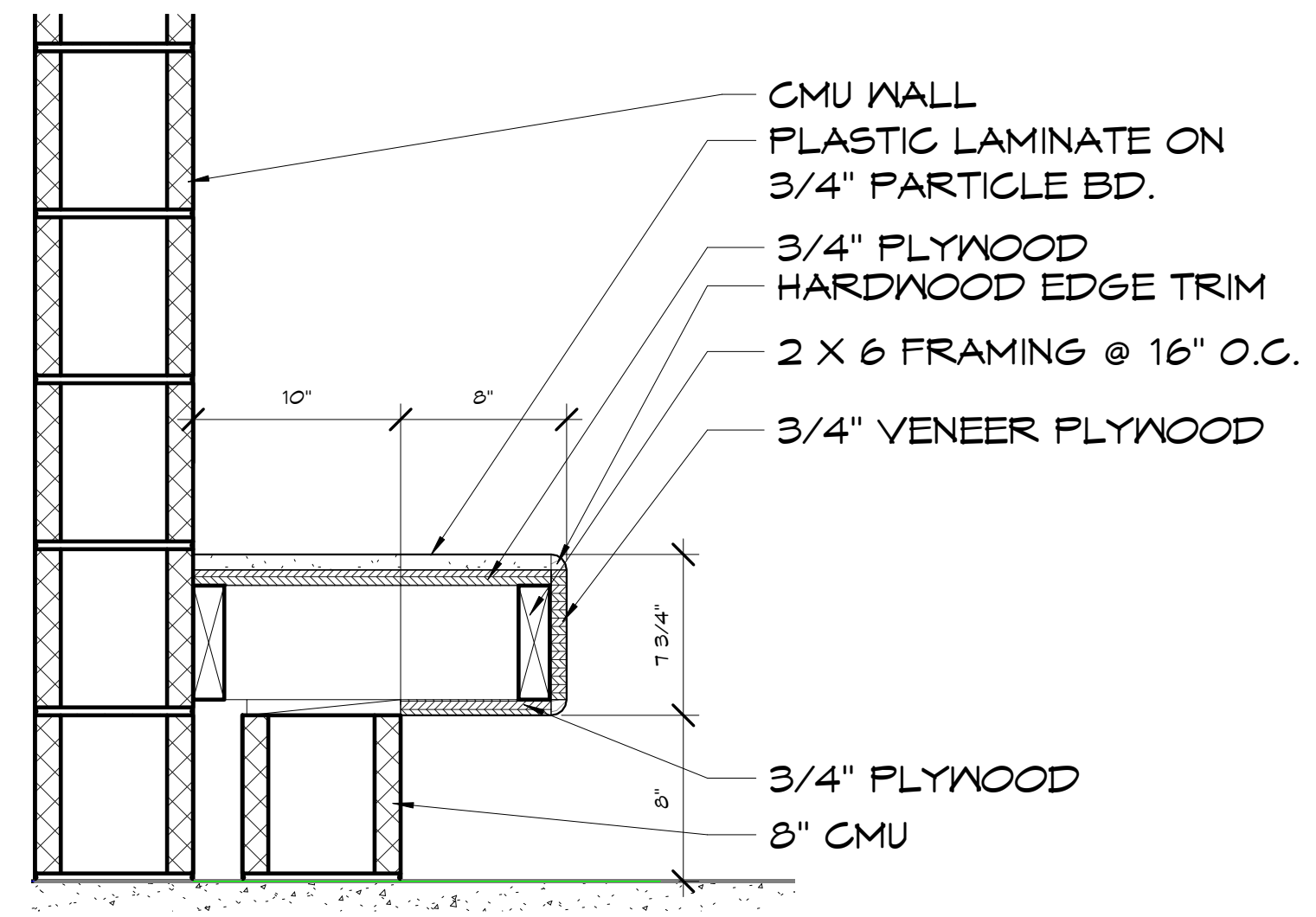
Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:

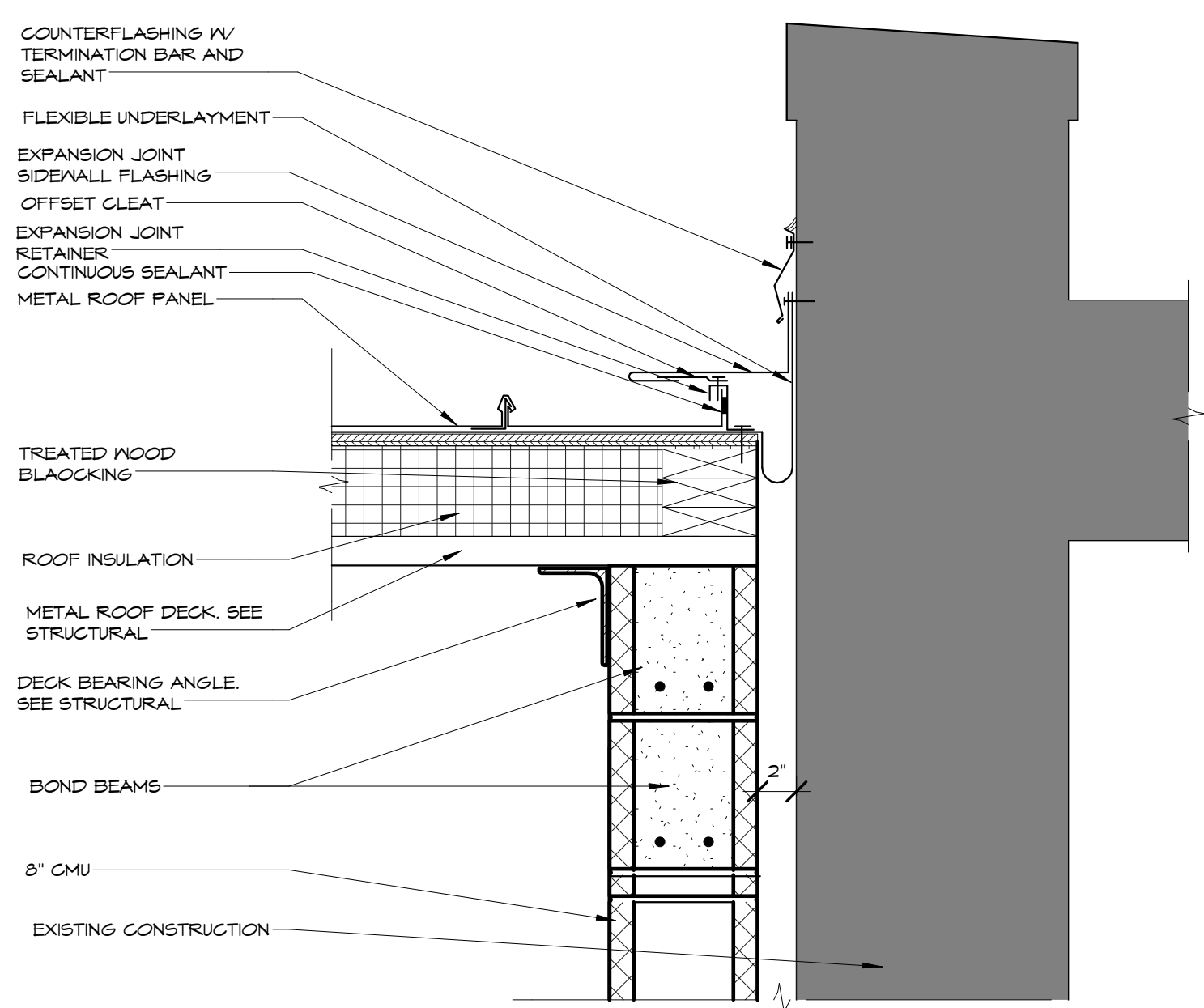
DETAILS

Sheet:
A5.01

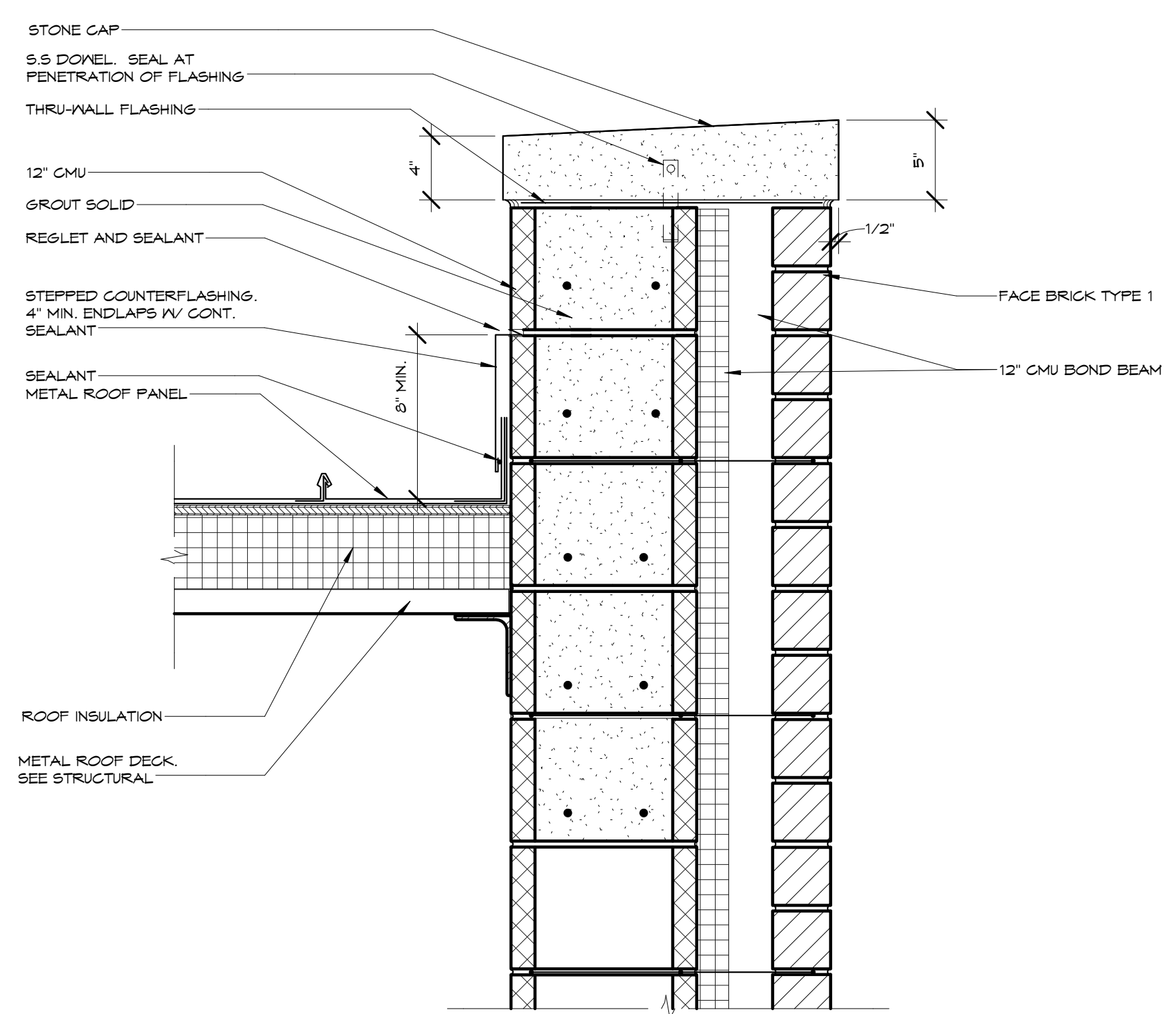
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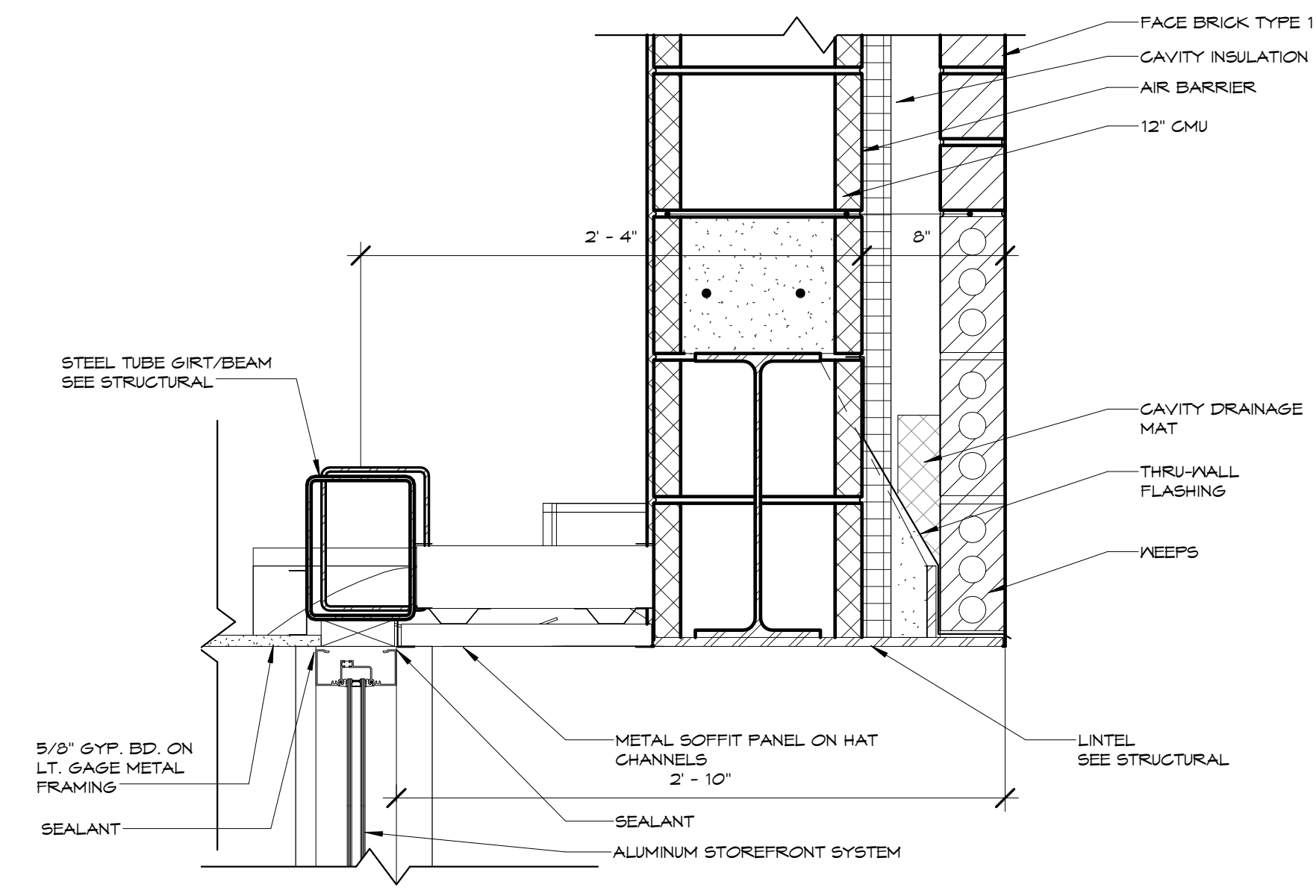
3 SECTION AT BENCH
A5.02 1 1/2" = 1'-0"



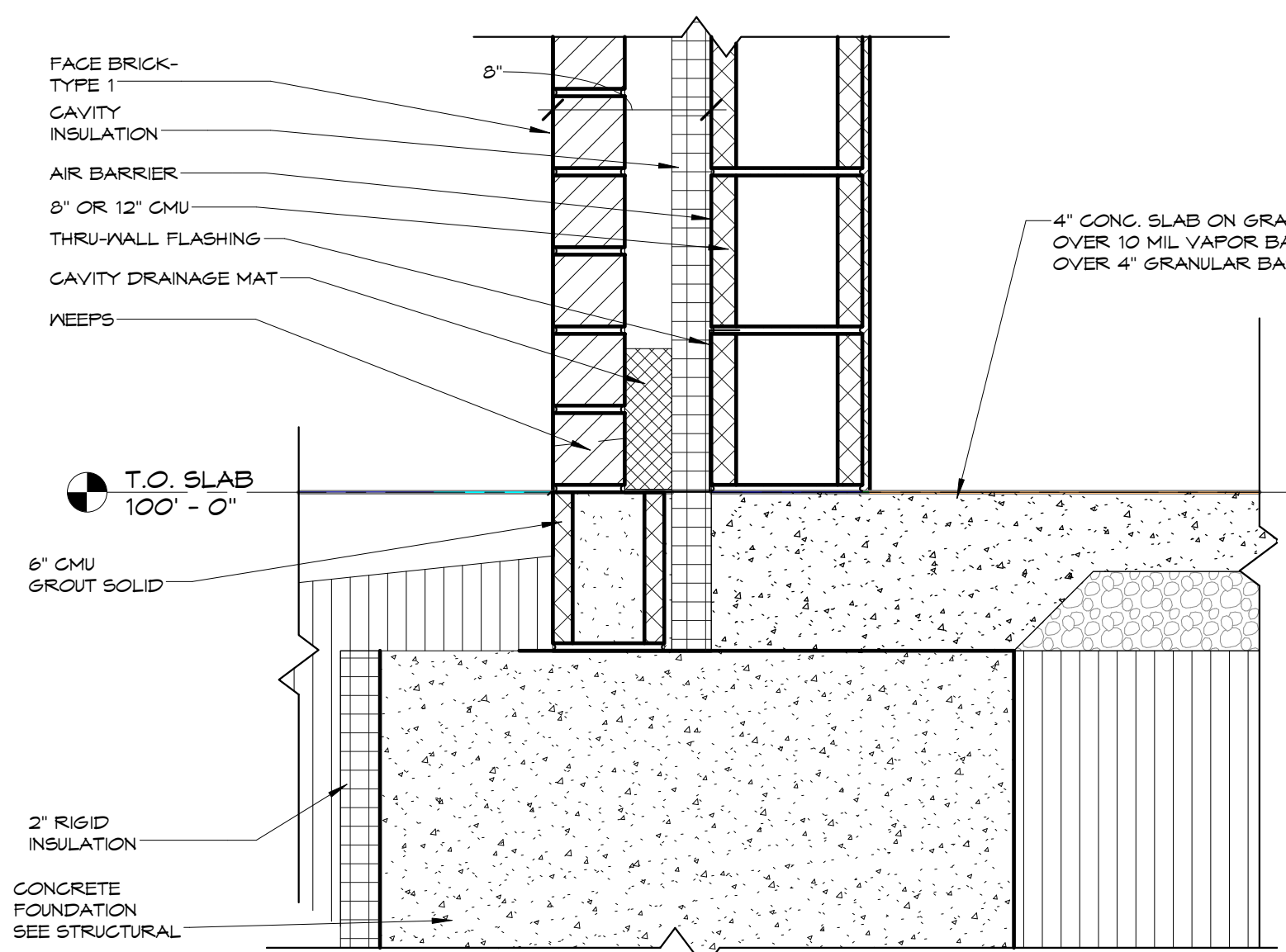
2 METAL ROOF EXPANSION JOINT
A5.02 1 1/2" = 1'-0"



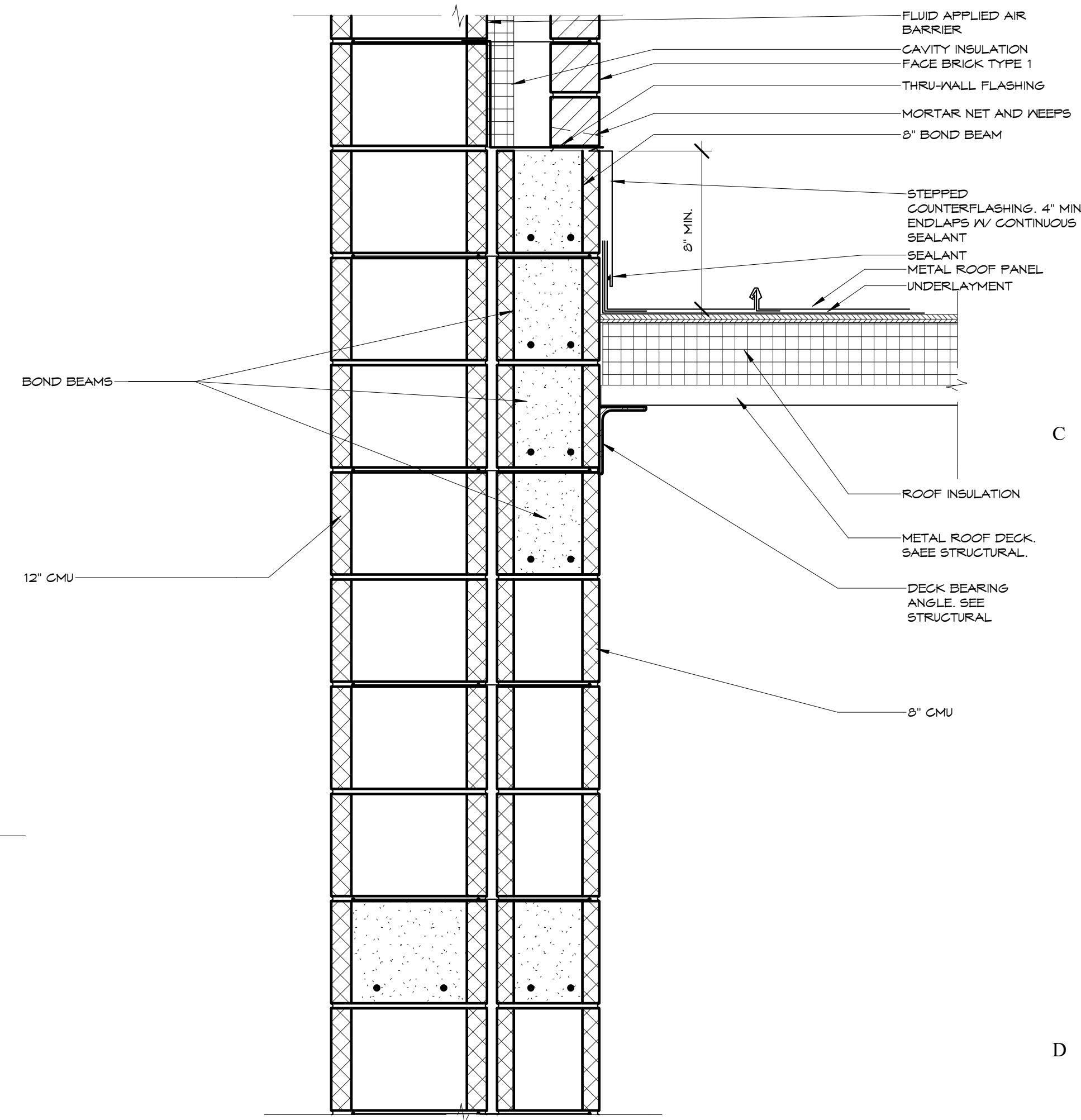
1 METAL ROOF AT NEW WALL
A5.02 1 1/2" = 1'-0"



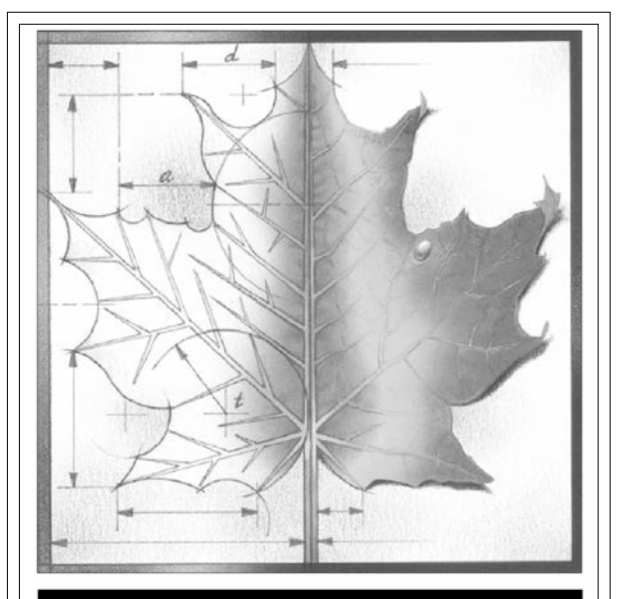
6 SOFFIT AT EAST ENTRY
A5.02 1 1/2" = 1'-0"



5 BASE FLASHING DETAIL
A5.02 1 1/2" = 1'-0"



4 MEMBRANE ROOF AT NEW WALL
A5.02 1 1/2" = 1'-0"



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Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:

DETAILS

Sheet:
A5.02
OF

ROOM FINISH SCHEDULE														
Number	Name	Floor Finish	Base Finish	North		East		South		West		Ceiling		Comments
				Material	Finish	Material	Finish	Material	Finish	Material	Finish	Material	Finish	
E100	VESTIBULE	CPT 1	RB	CMU	PT	CMU/GYP	PT	CMU	PT	CMU	PT	APC	9' - 4"	
E101	MECHANICAL	SC	-	CMU	NF	CMU	NF	CMU	NF	CMU	NF	EXP		
E103	HALLWAY	VCT1	RB	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 8"	
E104	SCIENCE LAB	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC/GYP		
E105	PREP ROOM	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 0"	
E106	SCIENCE LAB	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC/GYP		
E107	PREP ROOM	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC/GYP	8' - 0"	
E108	VESTIBULE	N.O.CPT	RB	CMU	PT	CMU	PT	CMU	PT	CMU	PT	GYP	8' - 8"	
E109	SCIENCE LAB	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC/GYP		
E110	PREP ROOM	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 8"	
E111	CHEM.	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 8"	
E112	COLLABORATIVE LAB	VCT1	RB	-	-	CMU	PT	ASF	NF	CMU	PT	APC/GYP		
E113	SCIENCE LAB	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC/GYP		
E114	PREP ROOM	SV	SV	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 8"	
E115	WORKROOM	VCT1	RB	CMU	PT	CMU	PT	CMU	PT	CMU	PT	APC	8' - 8"	

ROOM FINISH LEGEND

FLOOR FINISH	BASE	WALL MATERIAL	WALL FINISH	CEILING
CPT1 - TILE CARPET	RB - 4" RUBBER COVE BASE	EX - EXISTING	EX - EXISTING	GYP - PAINTED GYPSUM BOARD
N.O. CPT - WALK OFF CARPET TILES	SV - INTEGRAL SHEET VINYL	CMU - CONCRETE MASONRY UNITS	PT - PAINT	APC - SUSPENDED ACOUSTICAL PANEL CEILING
SV - WELDED SEAM SHEET VINYL		GYP - GYPSUM BOARD	NF - NO FINISH	EXP - EXPOSED STRUCTURE
SC - SEALED CONCRETE		ASF - ALUMINUM STOREFRONT SYSTEM		
VCT1 - VINYL COMPOSITION TILE				

FLOOR MATERIAL LEGEND

VCT 1 (VINYL COMPOSITION TILE 12' X 12')

COLOR 1 (FIELD COLOR)

COLOR 2 (ACCENT)

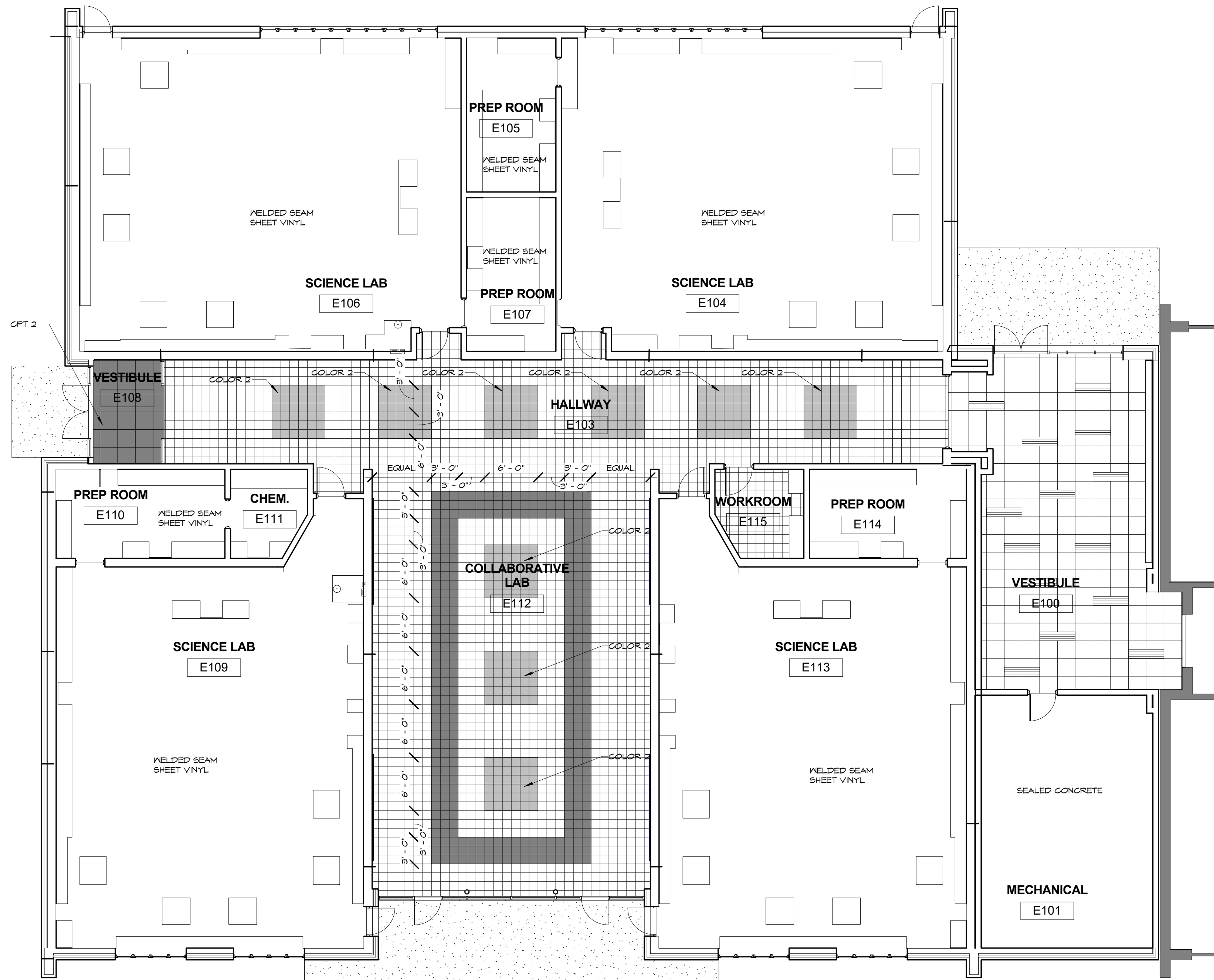
COLOR 3 (ACCENT)

CPT 1 (CARPET TILE) - 49 3/8 2' X 2' SQUARES WITH 1 3/8 1' X 4' PLANKS

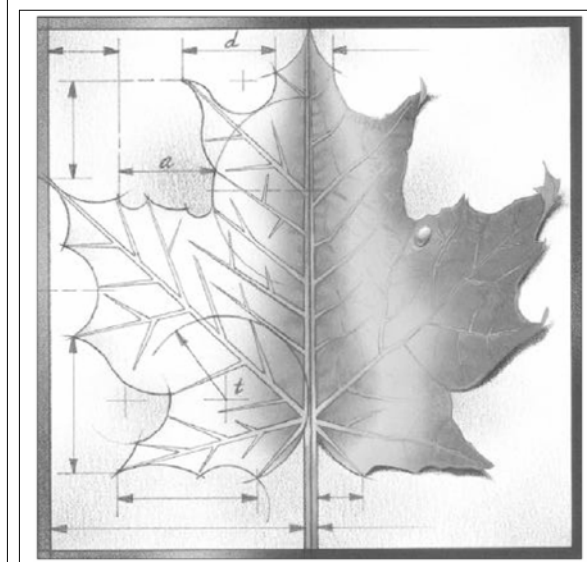
COLOR 1 (FIELD COLOR)

COLOR 2 (ACCENT)

N.O. CPT. (WALK-OFF CARPET TILE) - 2' X 2'



1 FLOOR FINISH PLAN
1/8" = 1'-0"



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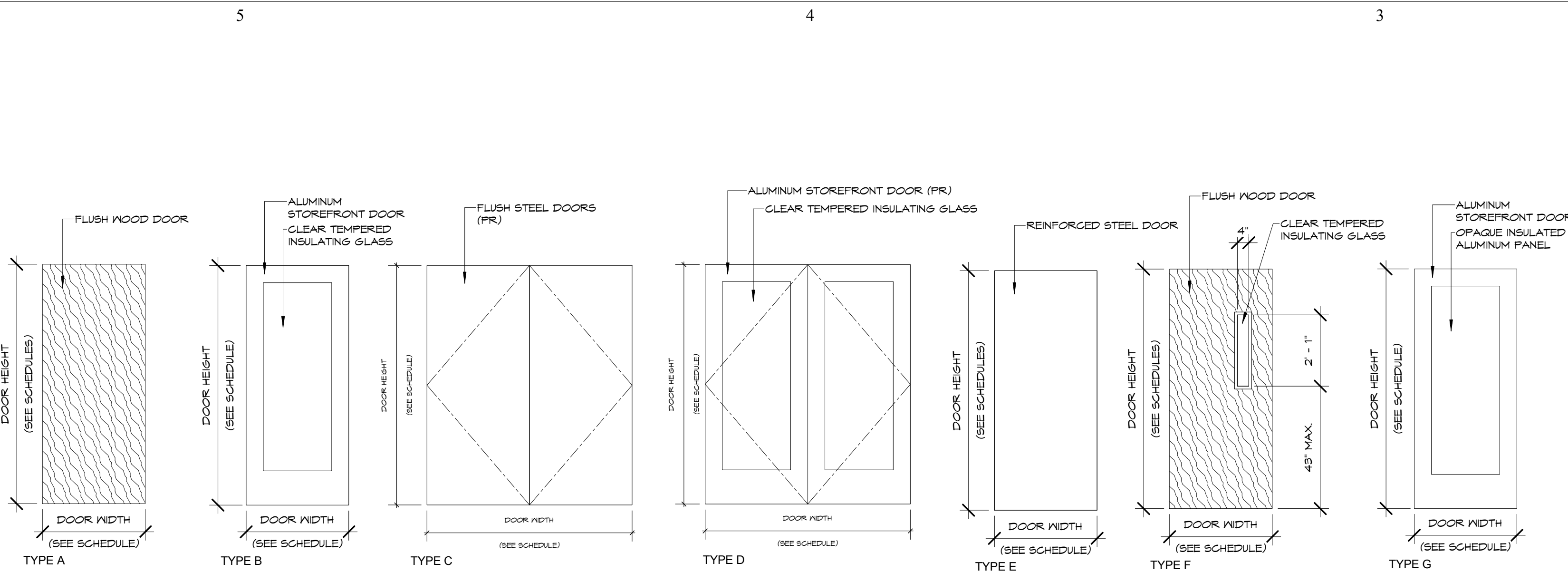
Project Number: 16036
Date: 11/28/17

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

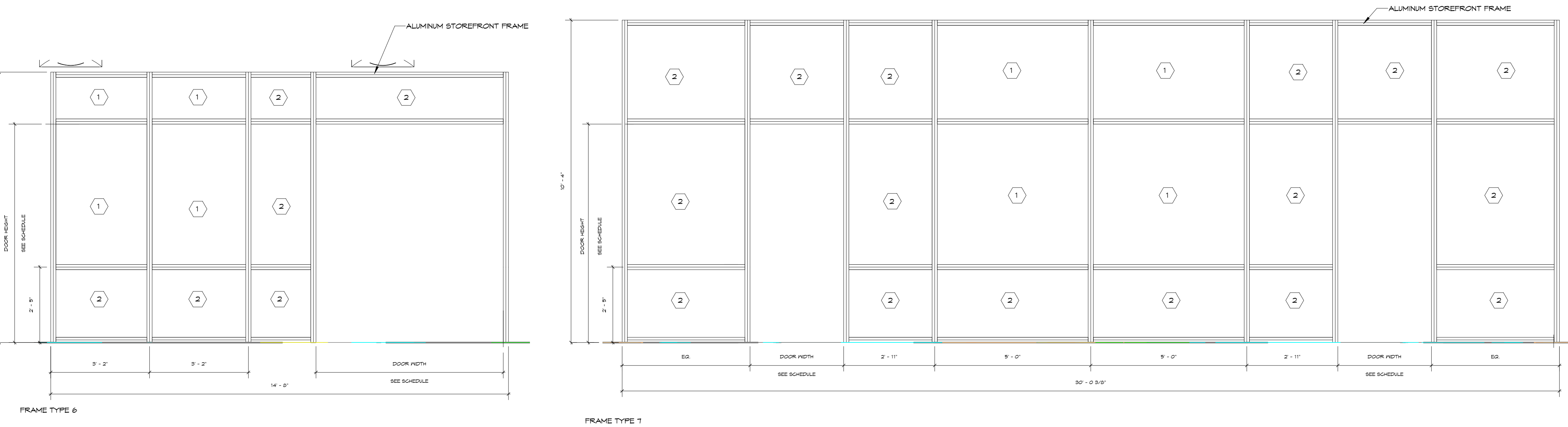
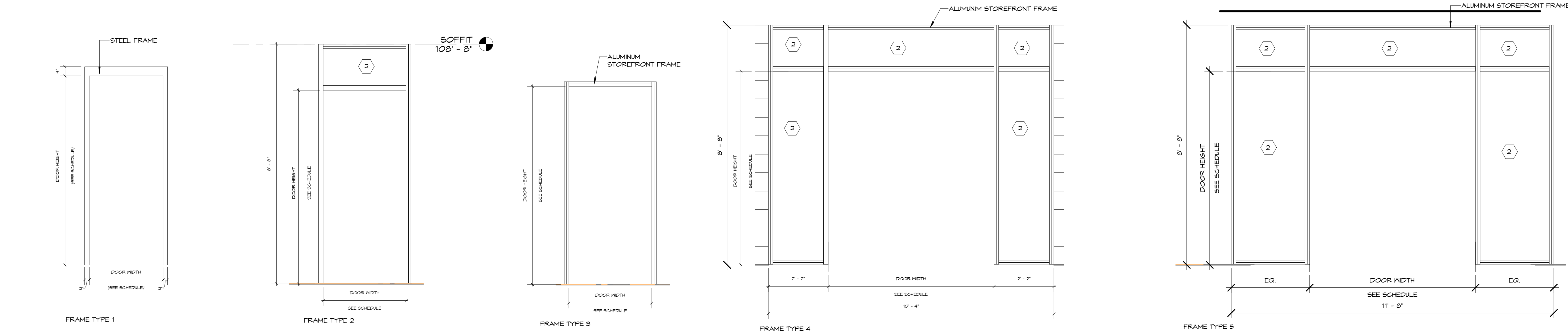
Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:
ROOM FINISH SCHEDULE

Sheet:
A6.00
OF

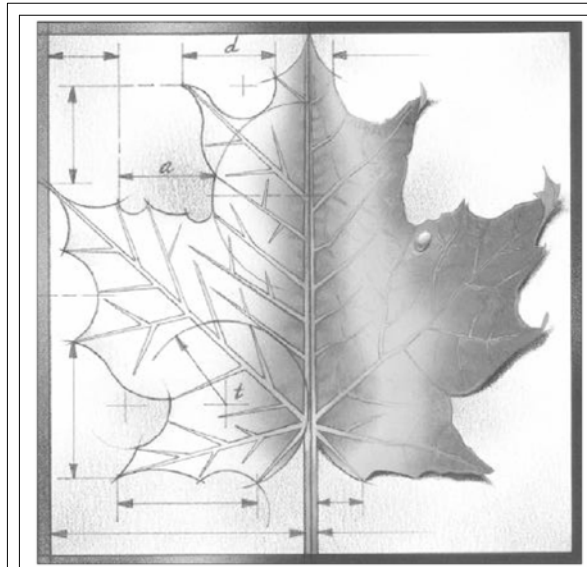


DOOR TYPES



FRAME TYPES

DOOR & FRAME SCHEDULE 1										
DOOR	DOOR SIZE		TYPE		FIRE RATING	DETAILS			HARDWARE SET	COMMENTS
	WIDTH	HEIGHT	DOOR	FRAME		HEAD	JAMB	SILL		
E100	6'-0"	7'-0"	D	6		2/A5.01	5/A7.01	6/A7.02	1.0	
E101	3'-0"	7'-0"	A	1	3/4-HR	5/A7.02	8/A7.02		9.0	
E103A	6'-0"	7'-0"	D	5		6/A5.02 SIM	1/A7.02		2.0	
E103B	8'-0"	7'-0"	C	1	2-HR	4/A7.02 SIM	7/A7.02		3.0	MAGNETIC HOLD-OPEN
E104A	3'-0"	7'-0"	F	1		5/A7.02	8/A7.02			
E104B	3'-0"	7'-0"	G	2		2/A7.01	5/A7.01	6/A7.02	4.0	
E105	3'-0"	7'-0"	E	1		4/A7.02	7/A7.02		8.0	
E106A	3'-0"	7'-0"	F	1		5/A7.02	8/A7.02			
E106B	3'-0"	7'-0"	G	2		2/A7.01	5/A7.01	6/A7.02	4.0	
E107	3'-0"	7'-0"	E	1		4/A7.02	7/A7.02		8.0	
E108	6'-0"	7'-0"	D	4		6/A5.02	1/A7.02		1.0	
E109A	3'-0"	7'-0"	F	1		5/A7.02	8/A7.02			
E109B	3'-0"	7'-2"	G	2		2/A7.01	5/A7.01		4.0	
E110	3'-0"	7'-0"	E	1		4/A7.02	7/A7.02		8.0	
E111	3'-0"	7'-0"	A	1	3/4-HR	4/A7.02	8/A7.02		7.0	
E112A	3'-0"	7'-0"	B	7		2/A5.01	1/A7.02 SIM	6/A7.02	4.0	
E112B	3'-0"	7'-0"	B	7		2/A5.01	1/A7.02 SIM	6/A7.02	4.0	
E113A	3'-0"	7'-0"	F	1		5/A7.02	8/A7.02			
E113B	3'-0"	7'-2"	G	2		2/A7.01	5/A7.01	6/A7.02	4.0	
E114	3'-0"	7'-0"	E	1		4/A7.02	7/A7.02		8.0	
E115	3'-0"	7'-0"	E	1	3/4-HR	4/A7.02	7/A7.02		6.0	



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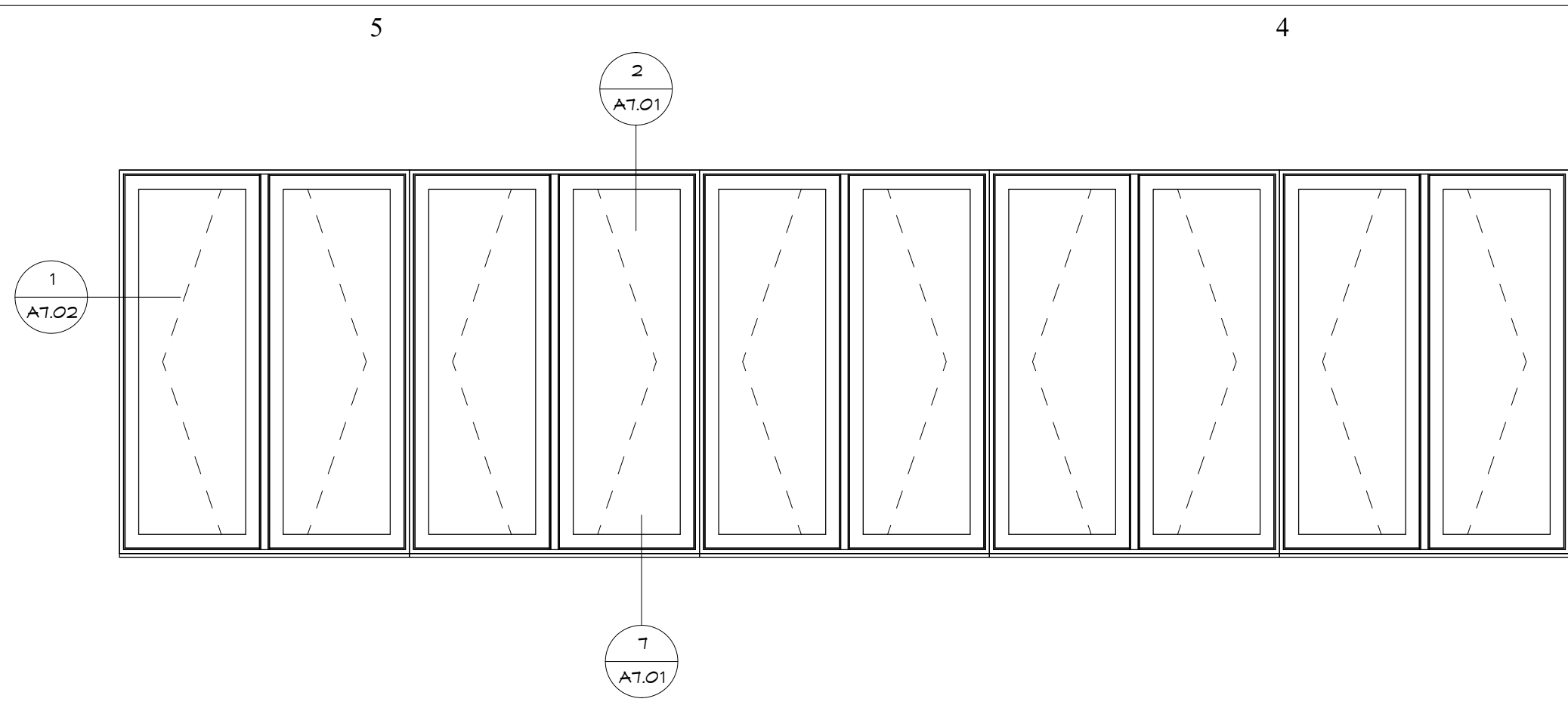
Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

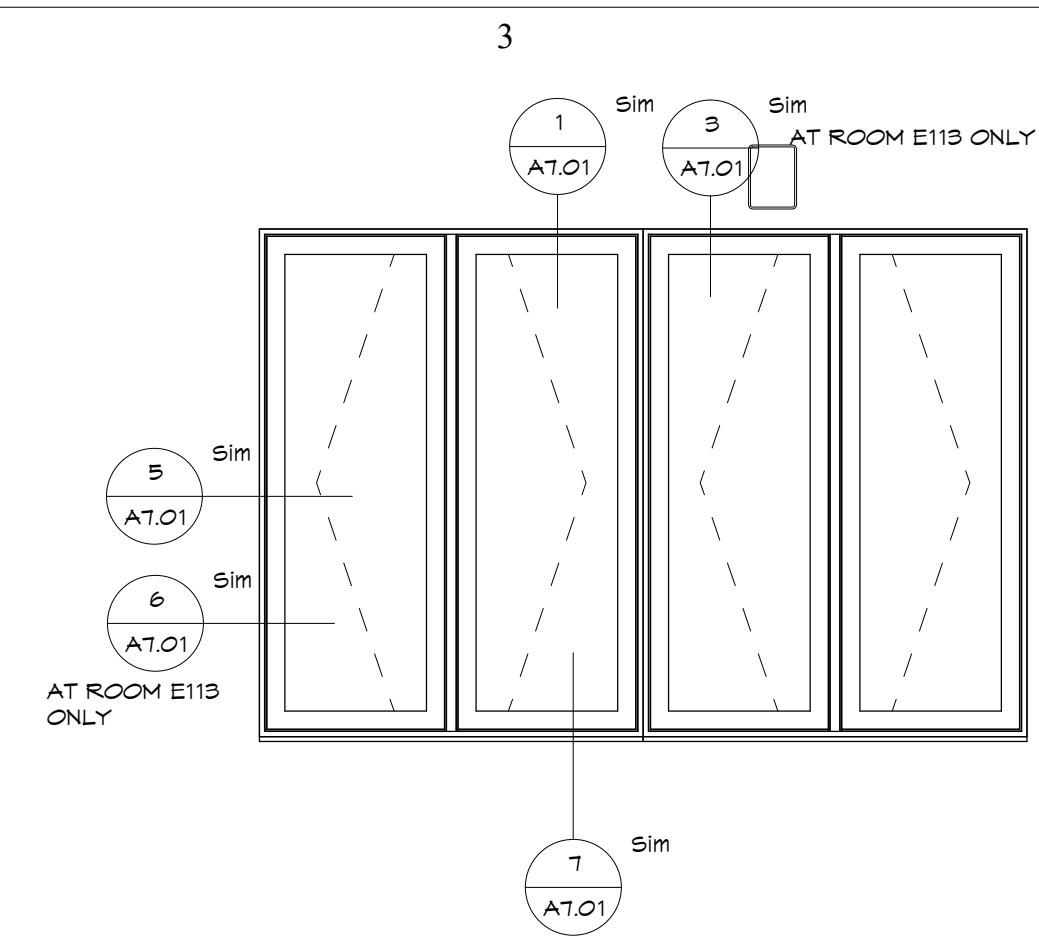
Sheet Title:
DOOR SCHEDULE, TYPES, AND DETAILS

Sheet:
A7.00

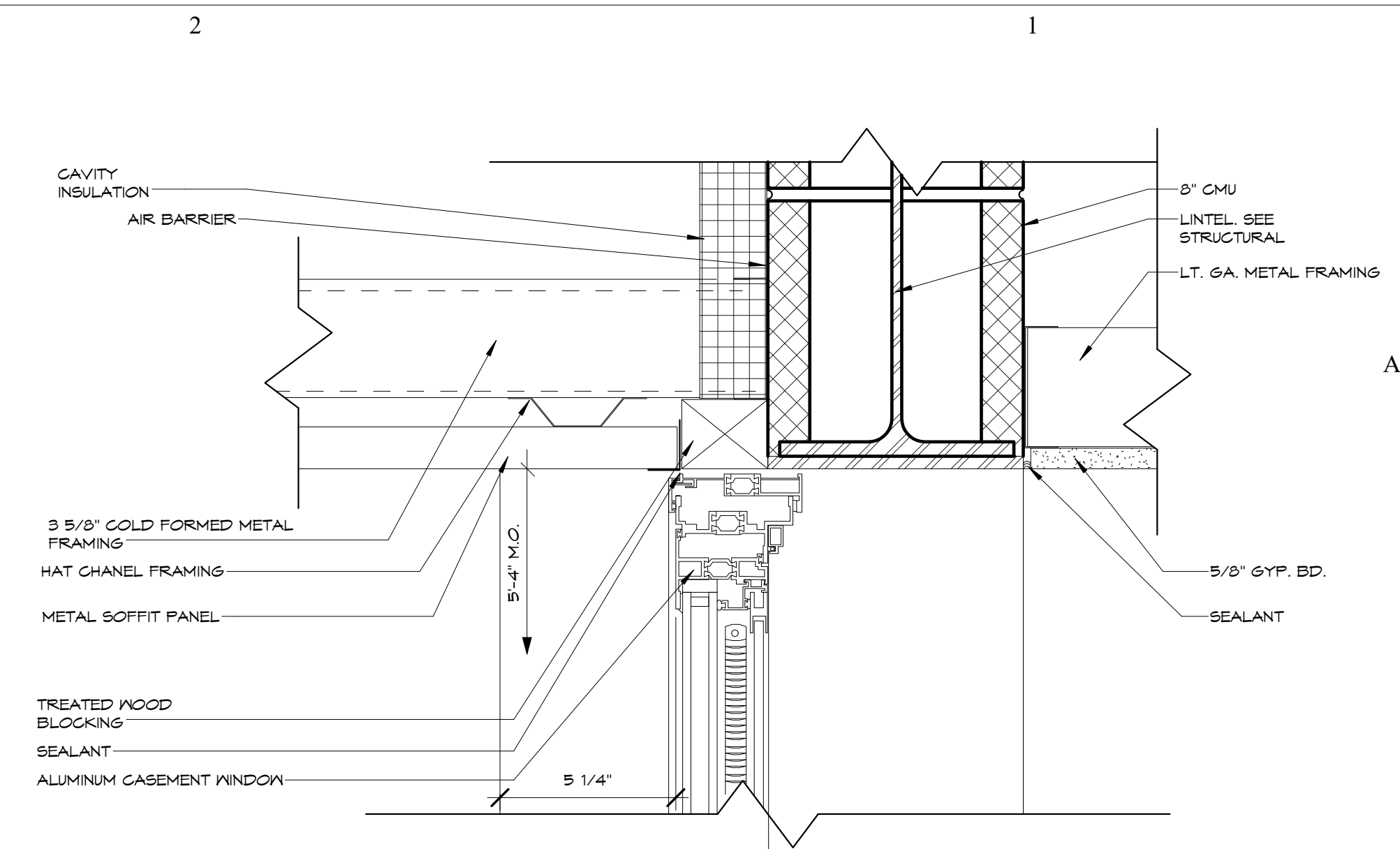
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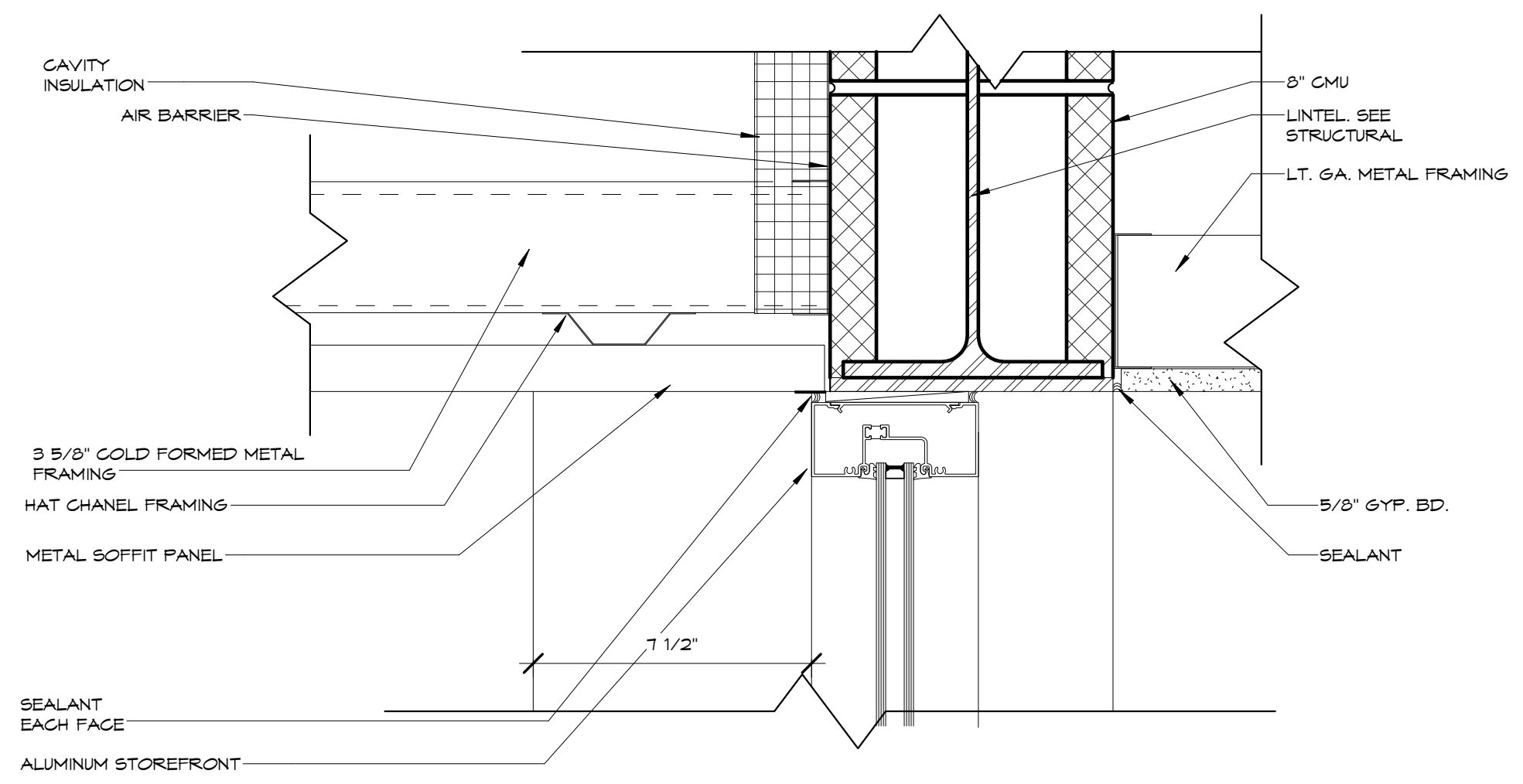
WINDOW TYPE A



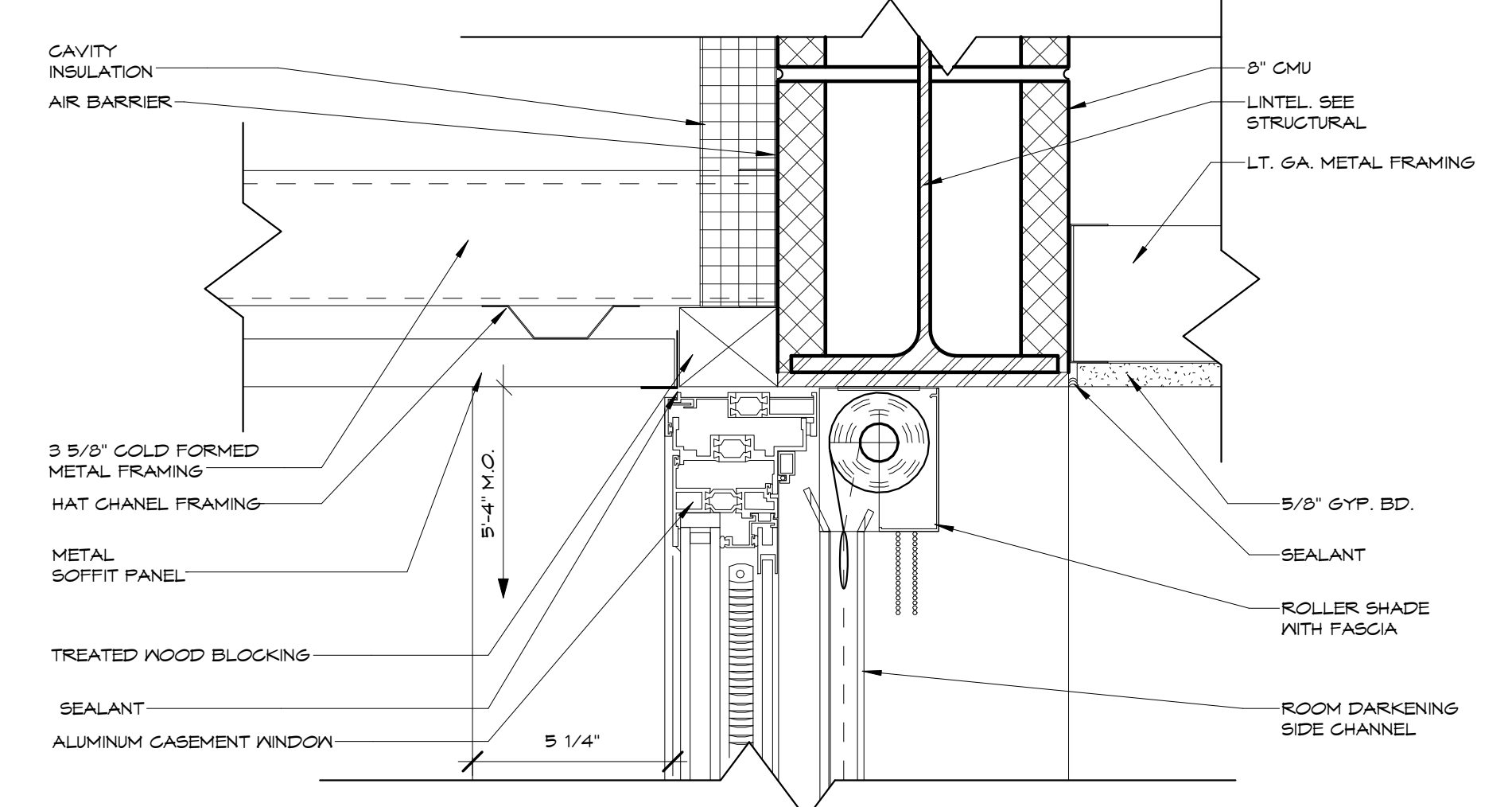
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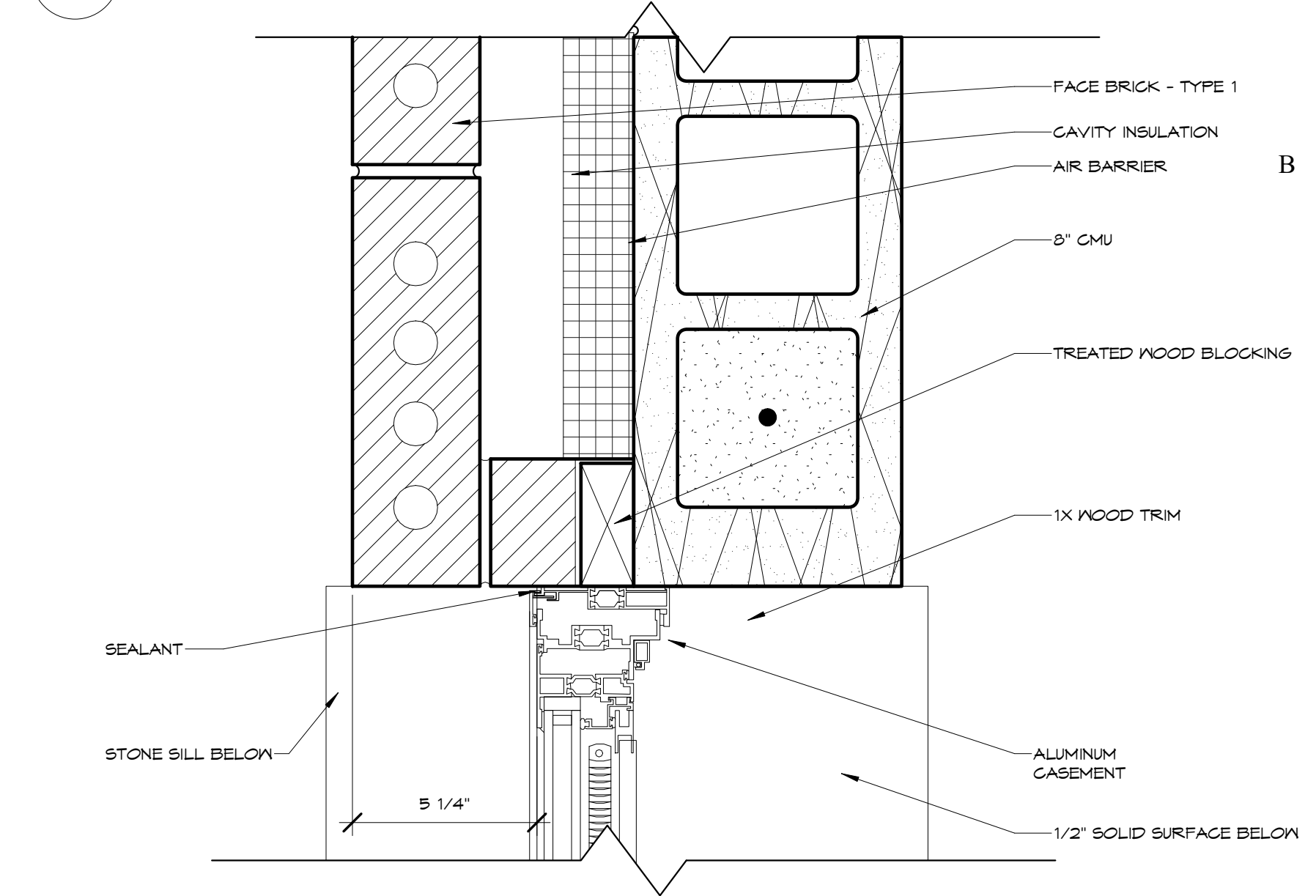
1 WINDOW HEAD - TYPICAL
3" = 1'-0"



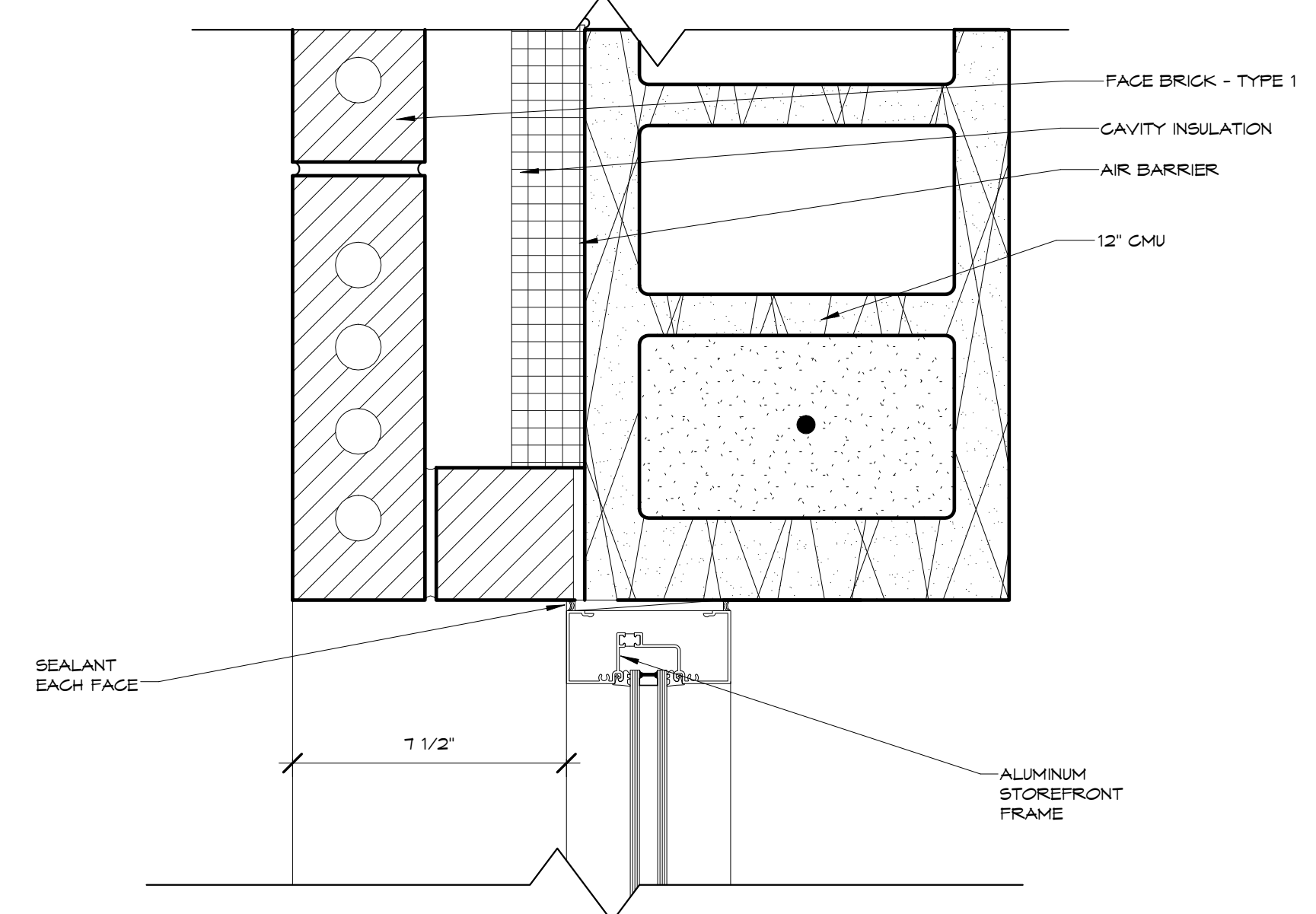
2 HEAD DETAIL AT STOREFRONT
3" = 1'-0"



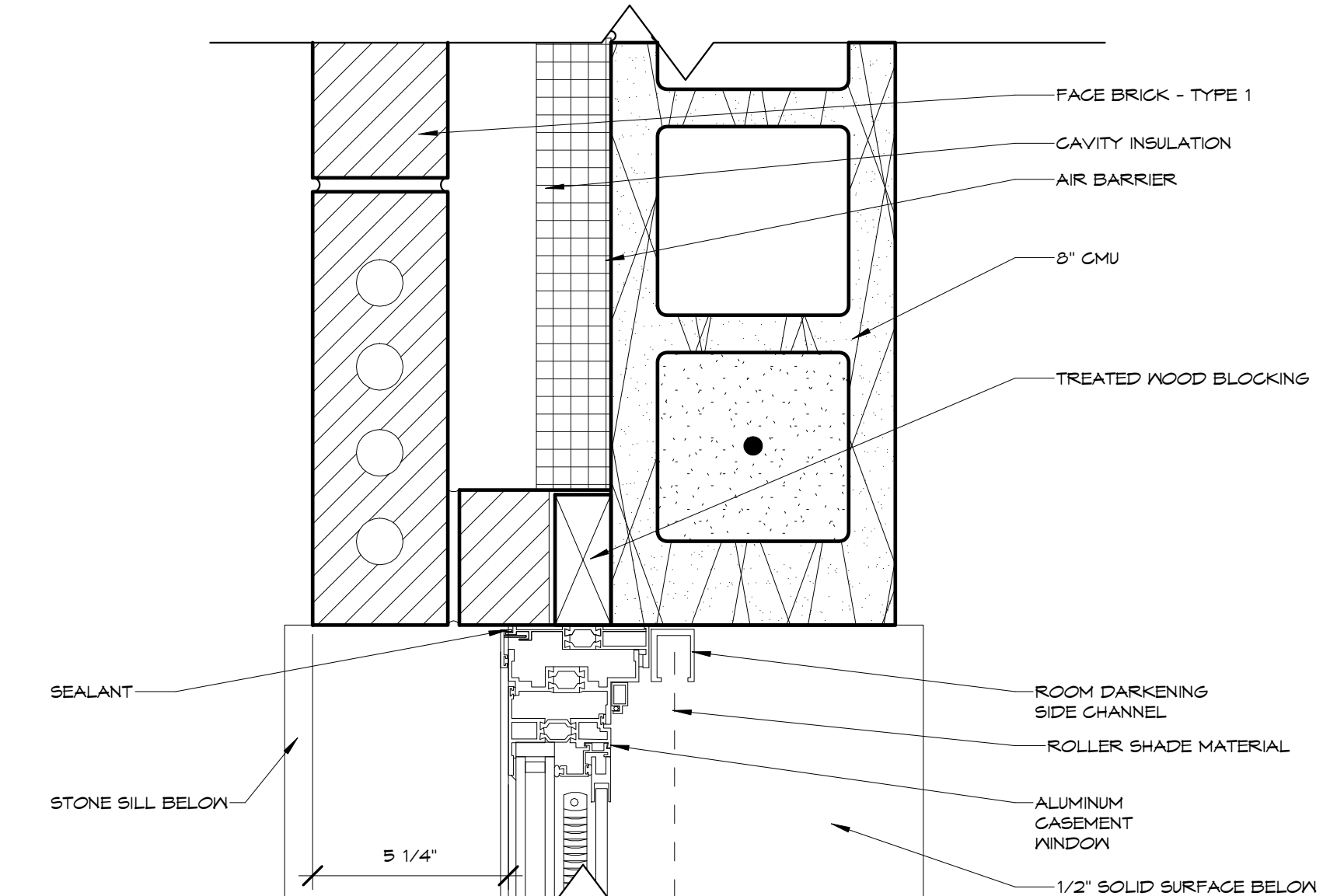
3 WINDOW HEAD WITH ROLLER SHADE
3" = 1'-0"
(AT ROOM E113 ONLY)



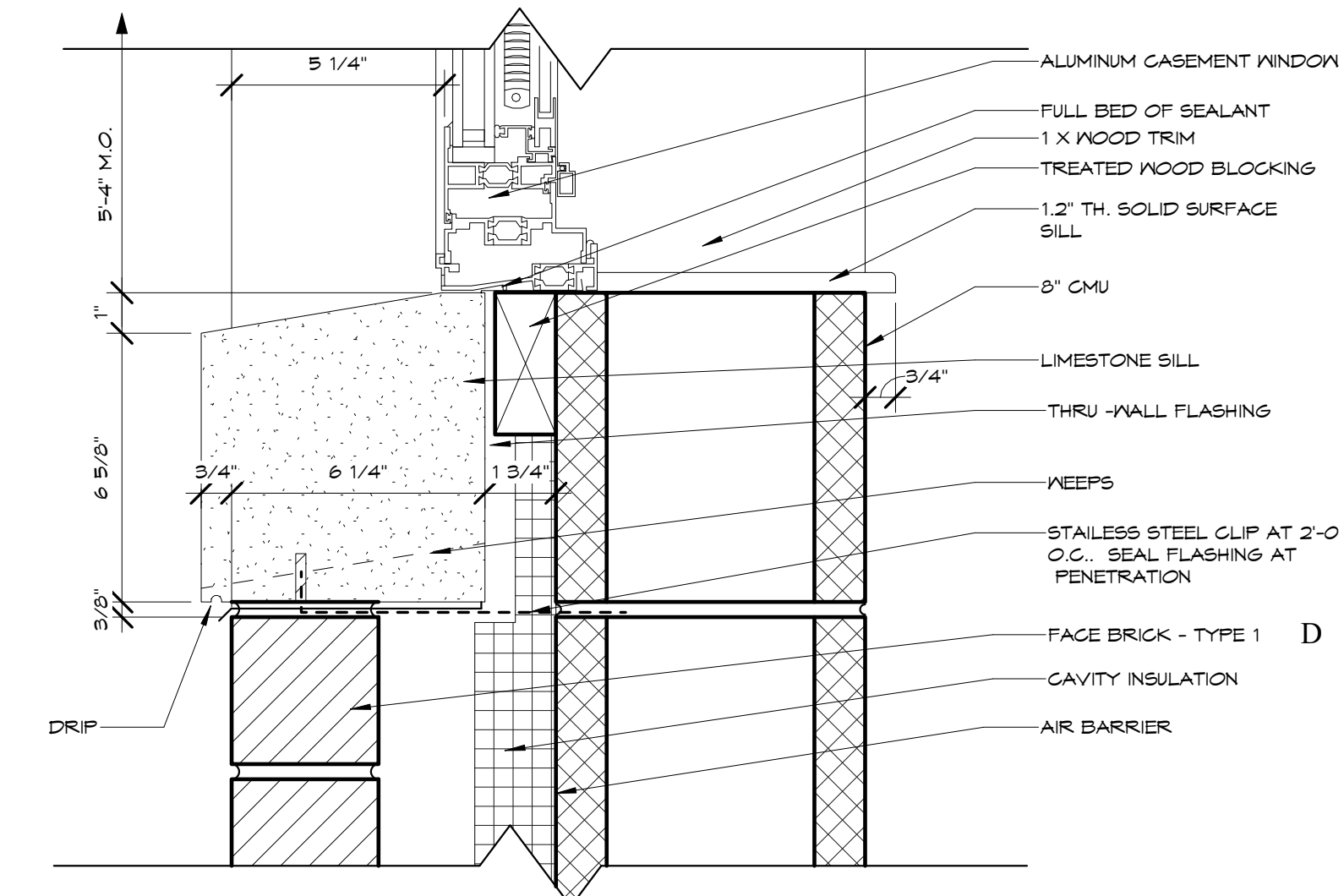
4 JAMB AT ALUMINUM WINDOW
3" = 1'-0"



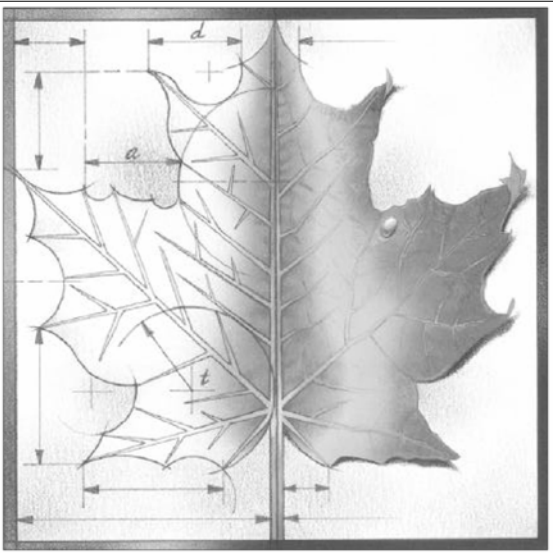
5 JAMB AT STOREFRONT FRAME
3" = 1'-0"



6 WINDOW JAMB WITH ROLLER SHADE
3" = 1'-0"
(AT ROOM E113 ONLY)



7 WINDOW SILL - TYPICAL
3" = 1'-0"



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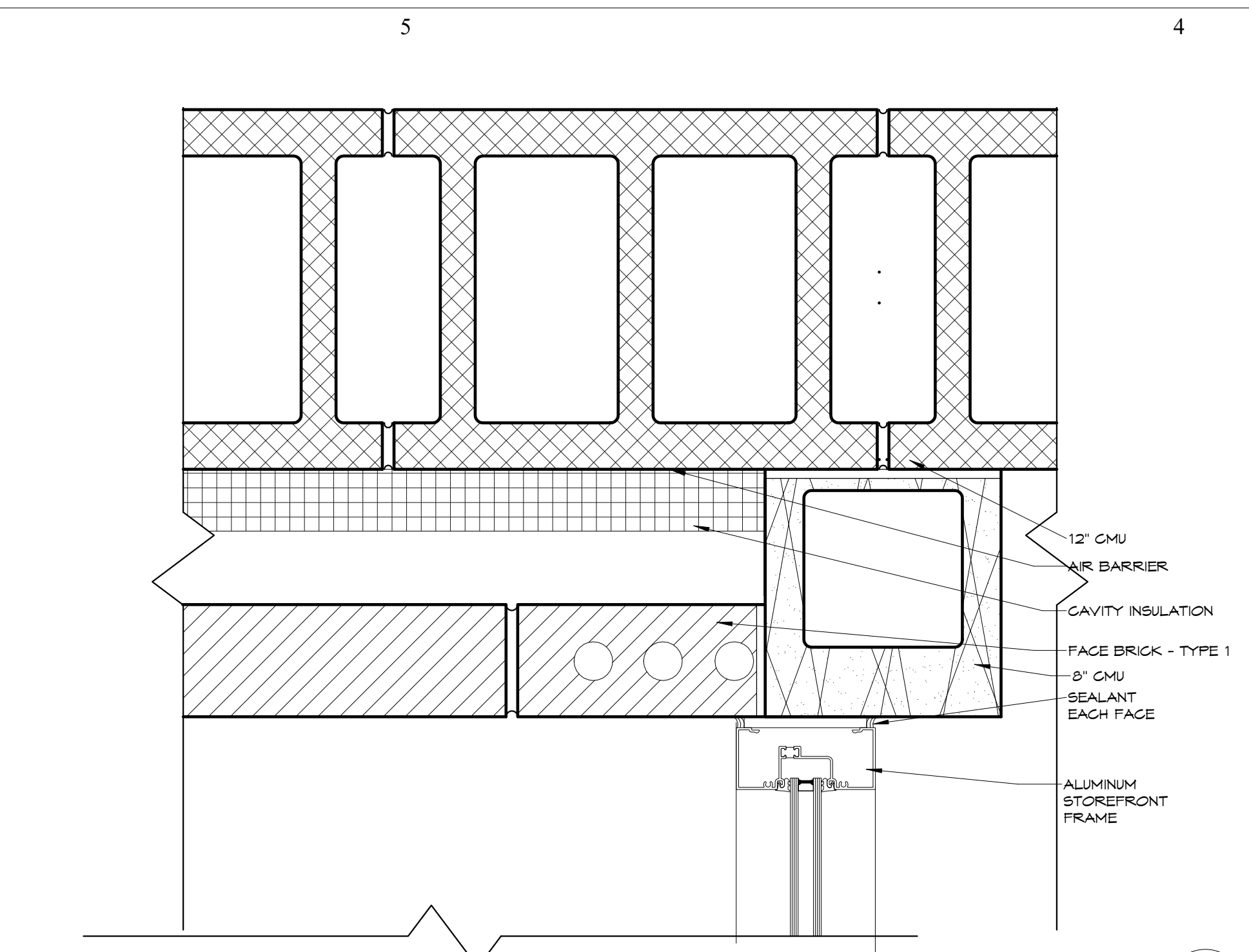
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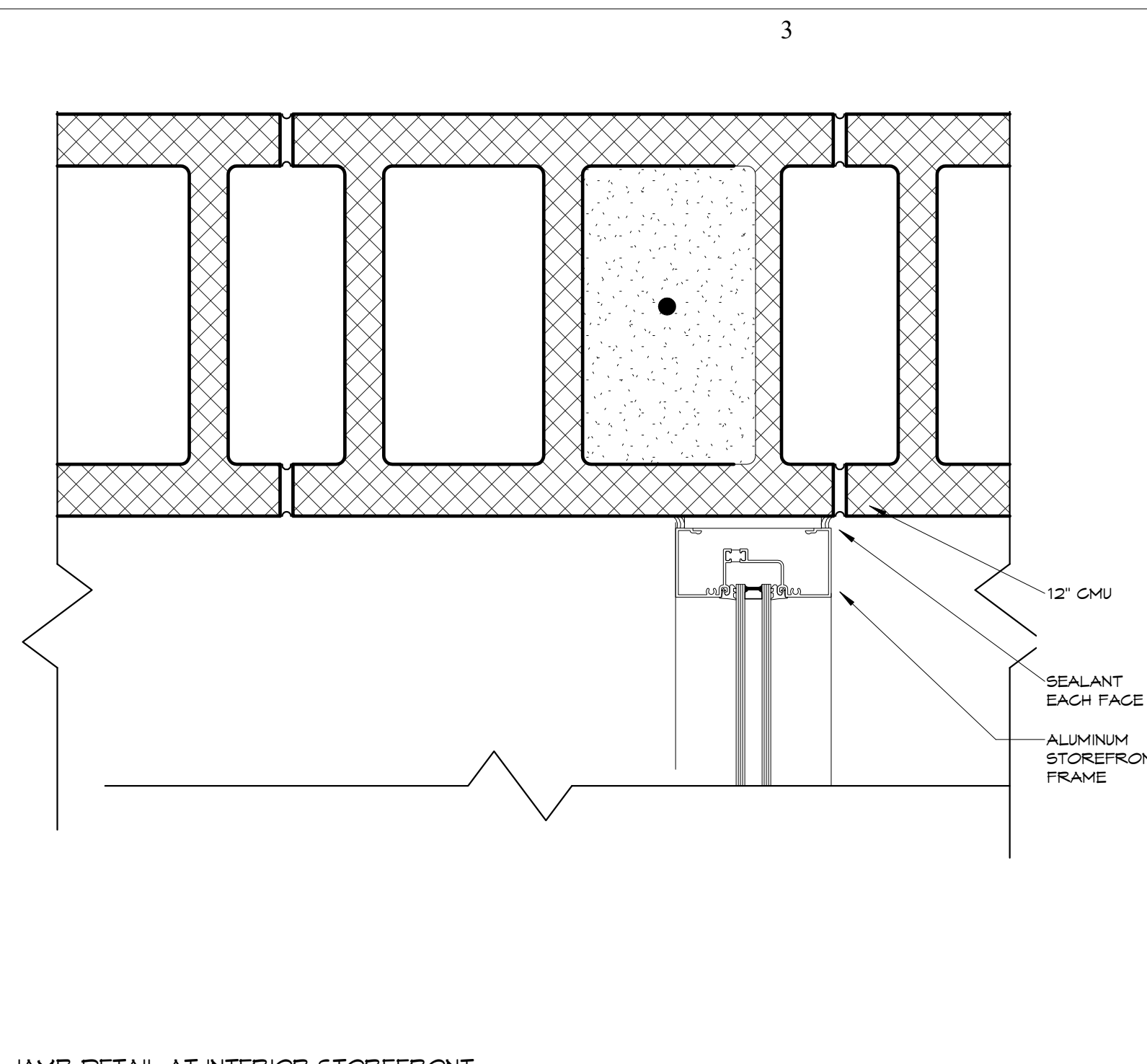
Project Name:
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Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
WINDOW TYPES AND DETAILS

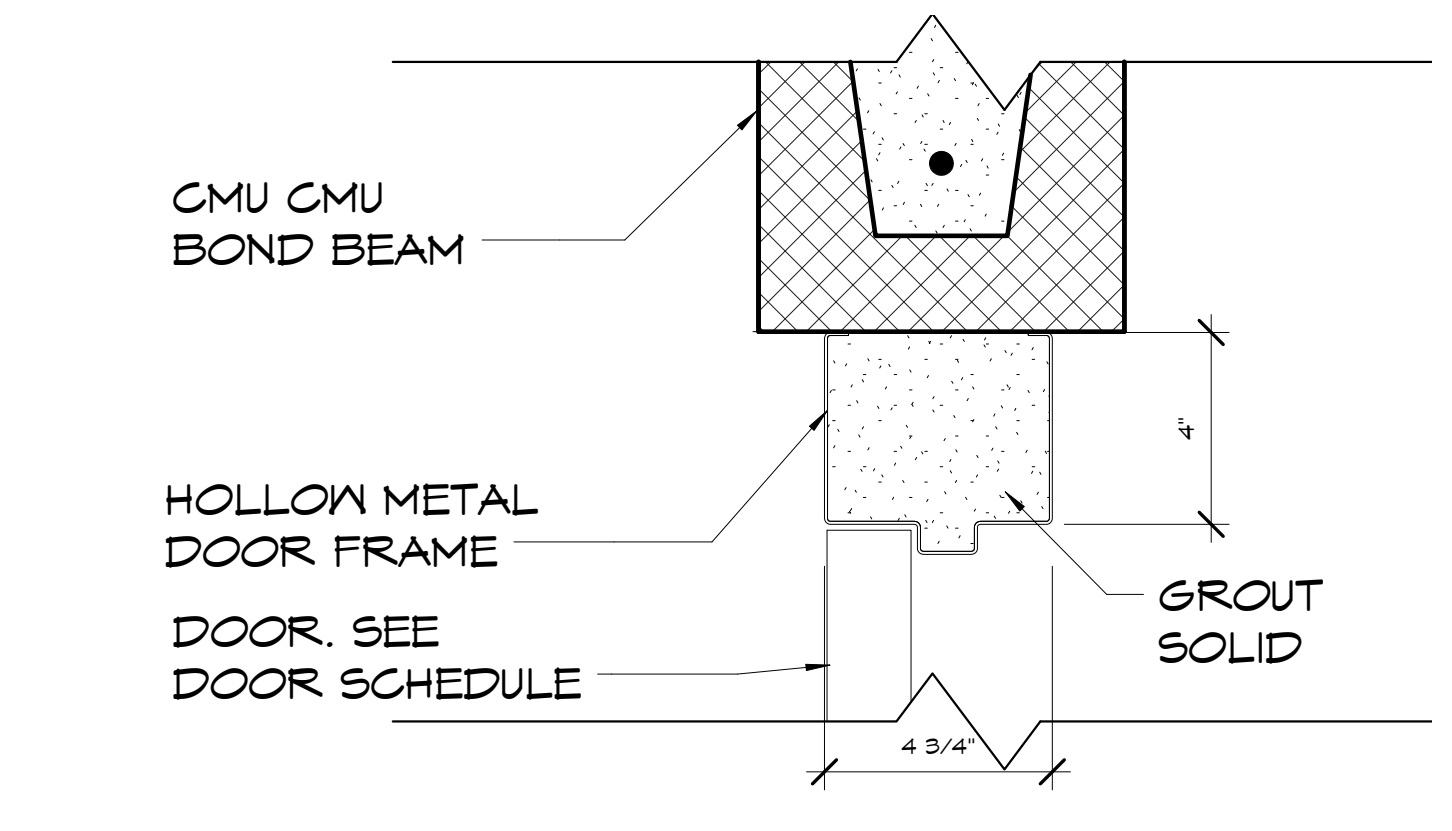
Sheet:
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Of:



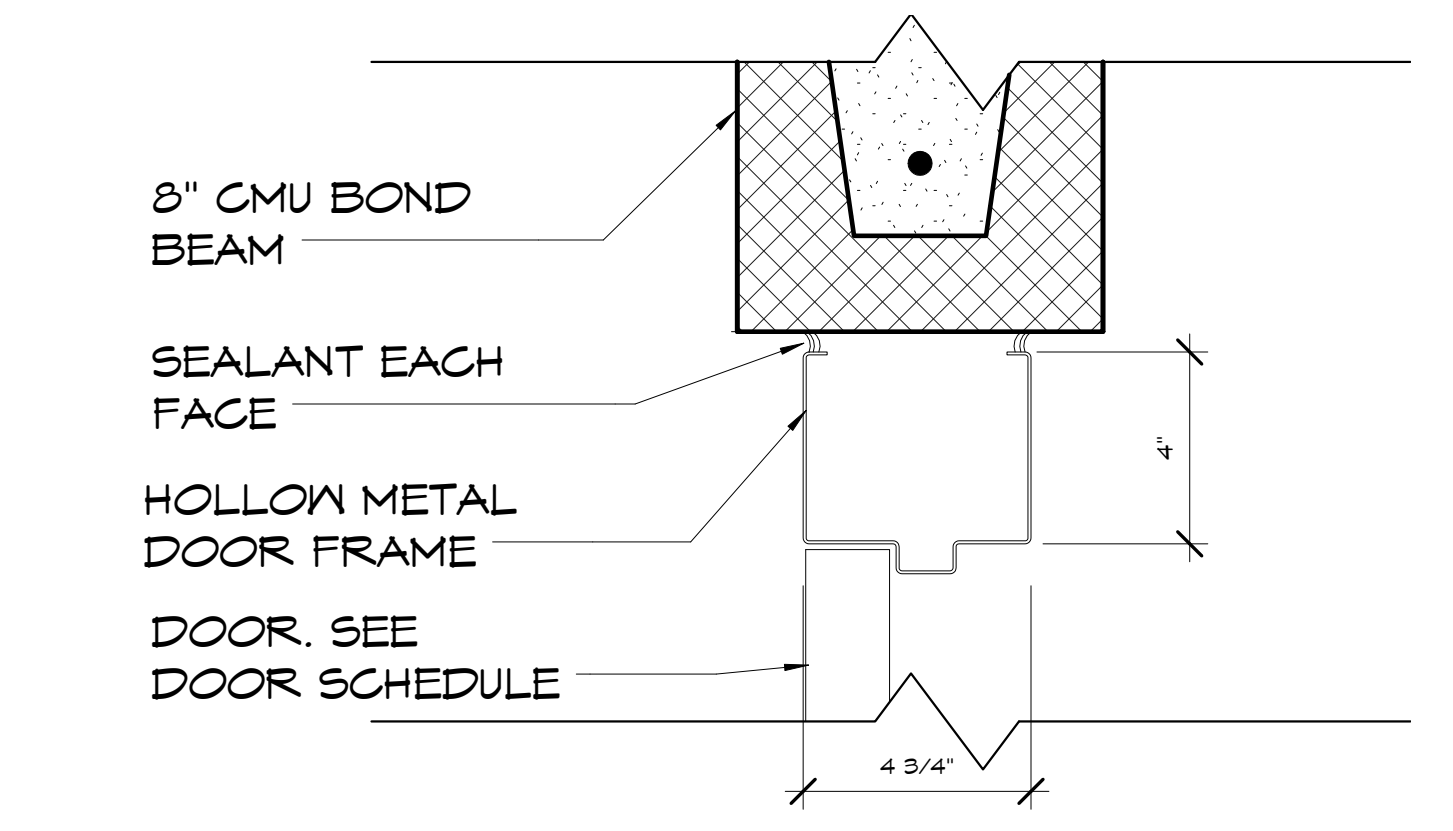
1 JAMB DETAIL AT STOREFRONT FRAME
A7.02 3" = 1'-0"



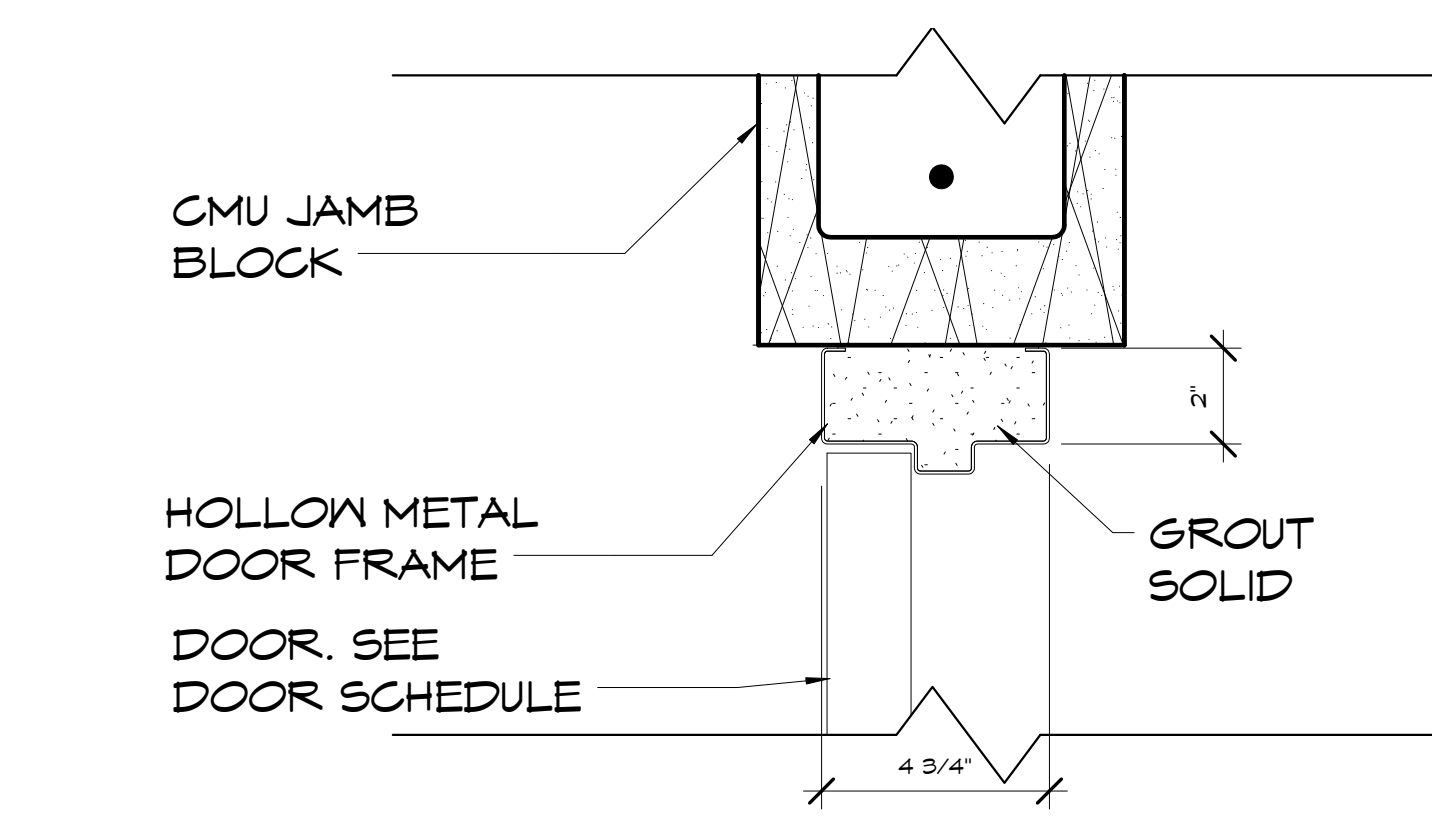
2 JAMB DETAIL AT INTERIOR STOREFRONT FRAME
A7.02 3" = 1'-0"



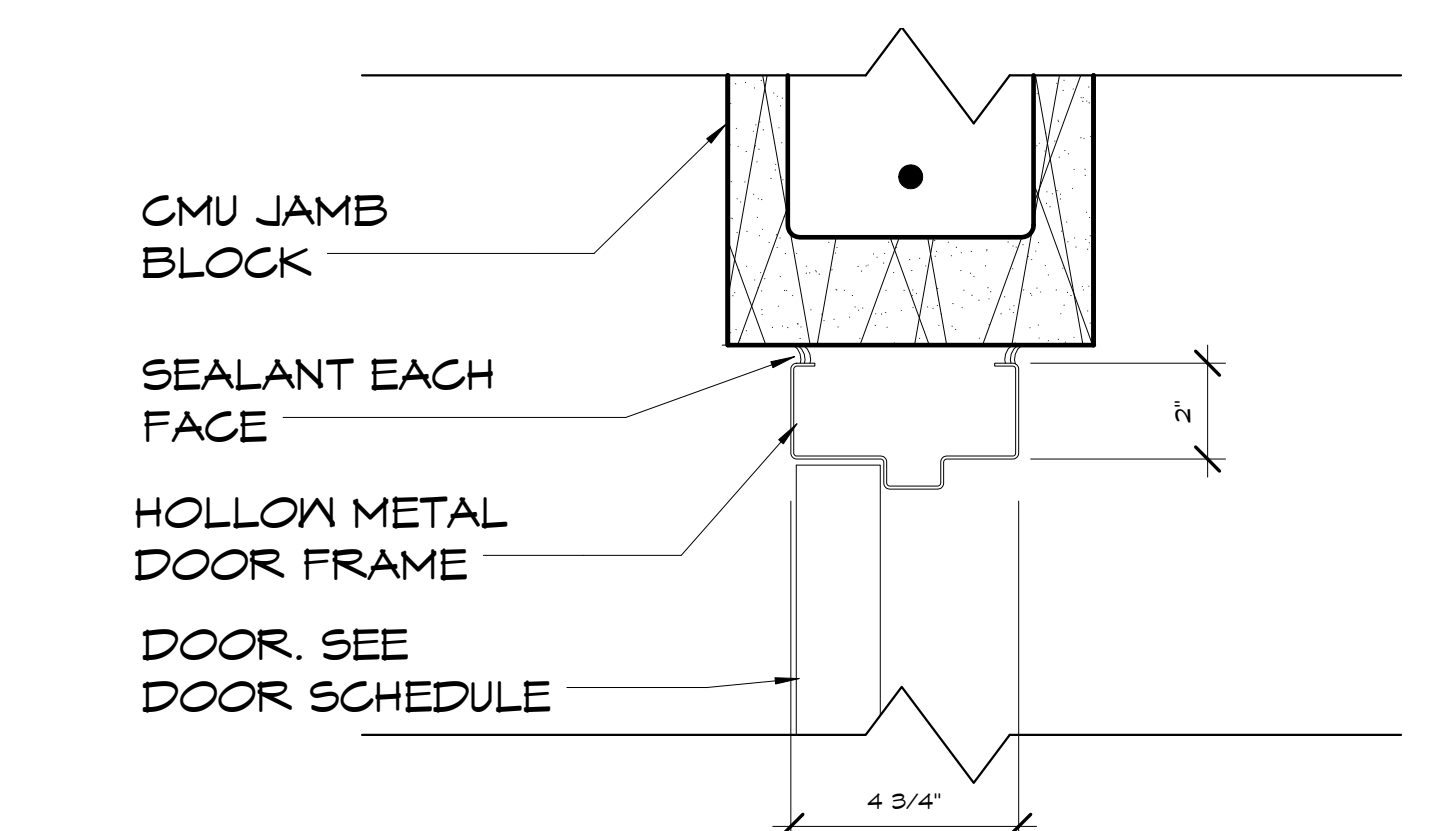
4 HEAD DETAIL-INTERIOR GROUDED METAL FRAME
A7.02 3" = 1'-0"



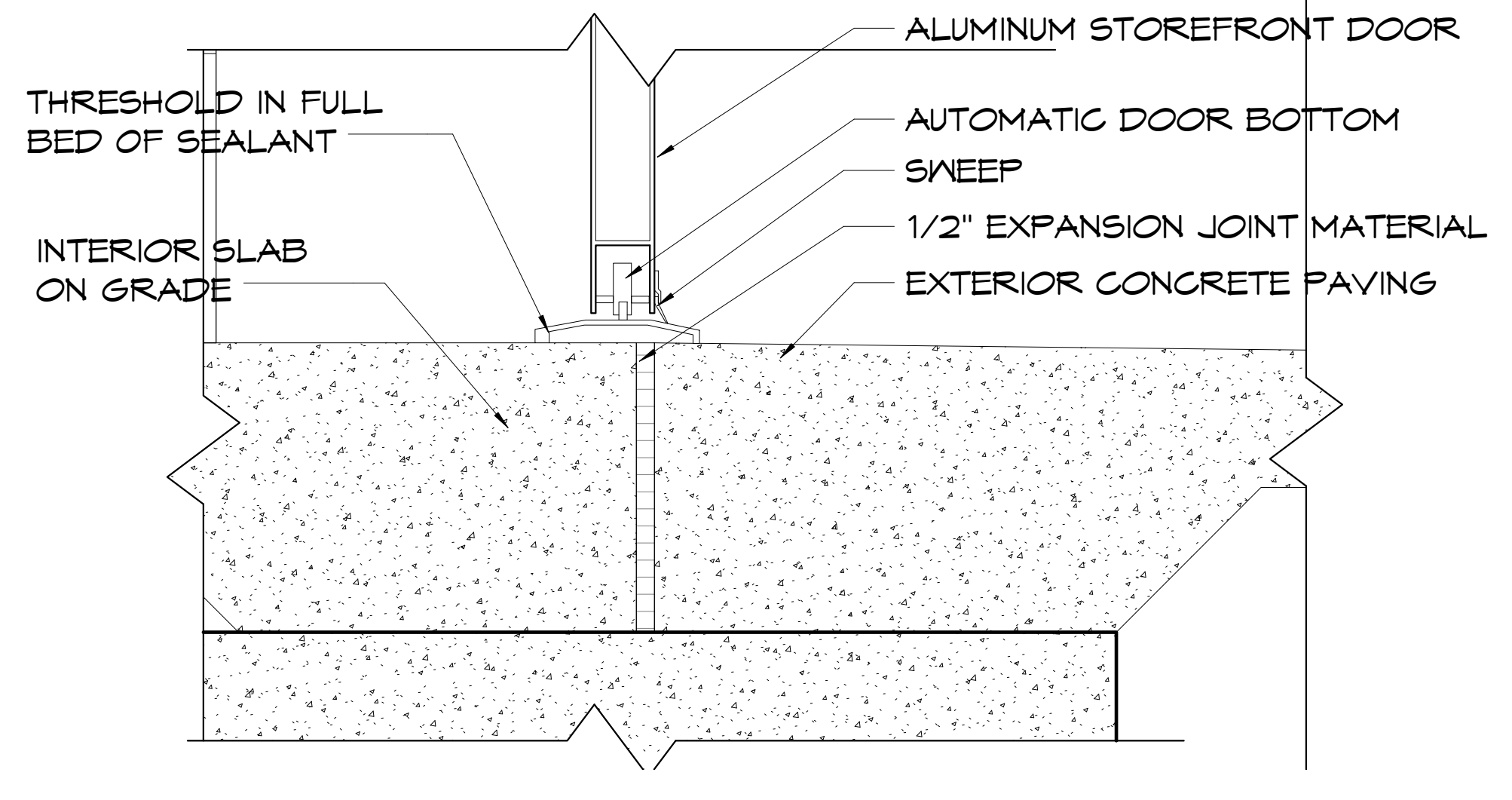
5 HEAD DETAIL-INTERIOR METAL FRAME
A7.02 3" = 1'-0"



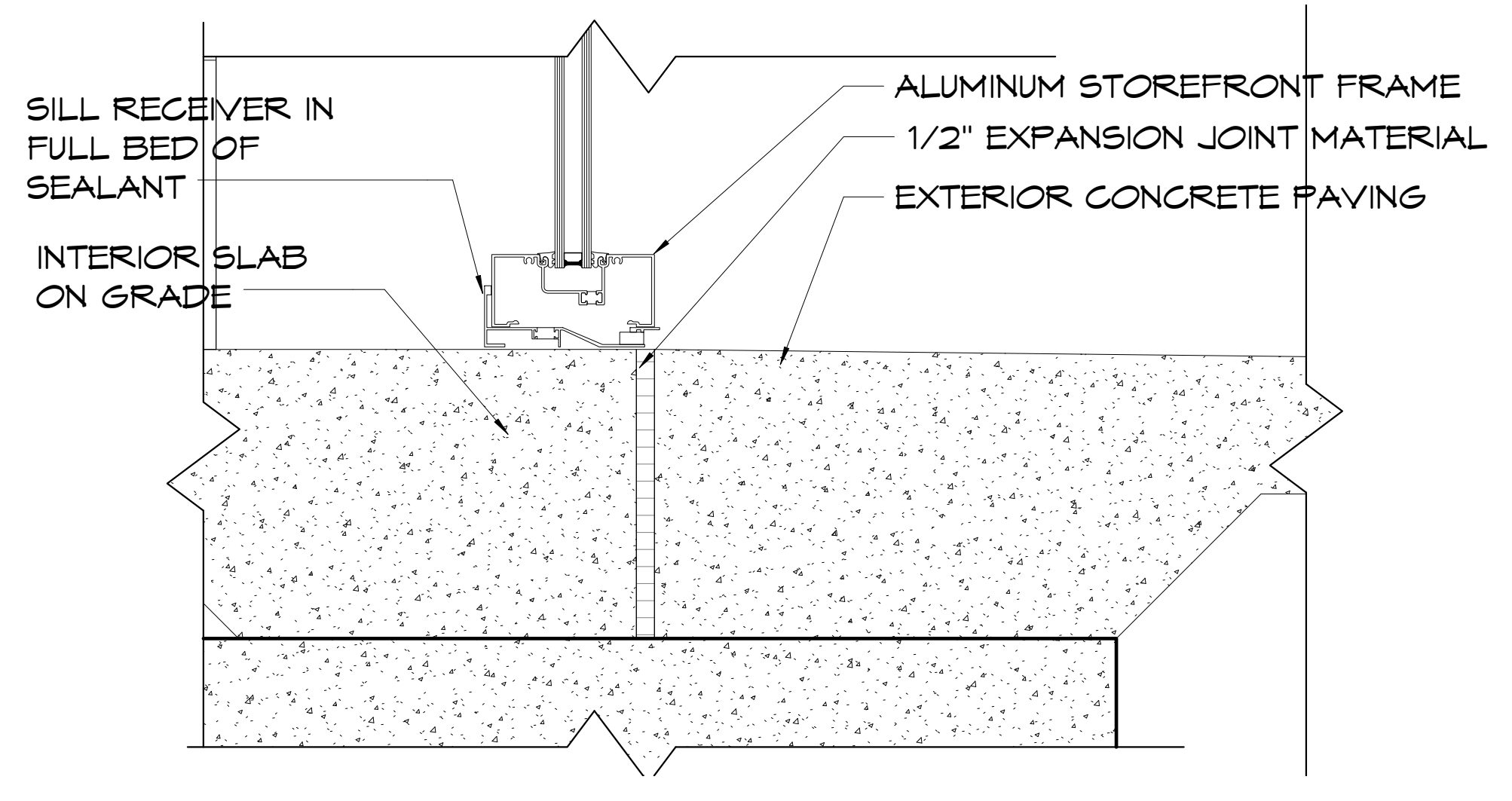
7 JAMB DETAIL-INTERIOR GROUDED METAL FRAME
A7.02 3" = 1'-0"



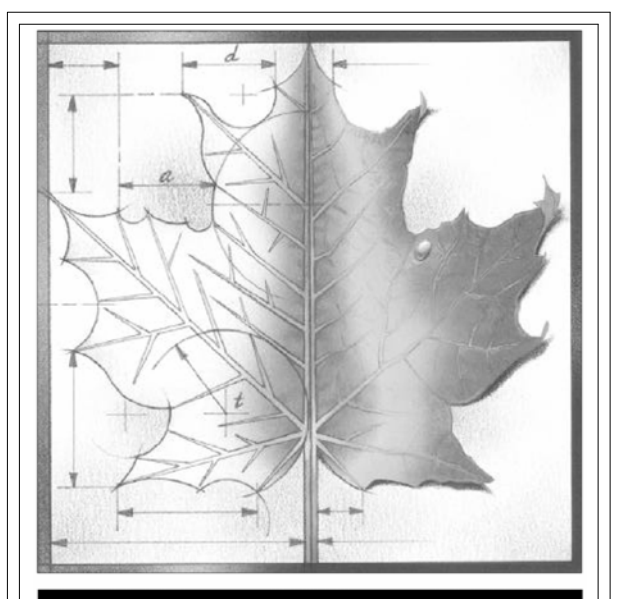
8 JAMB DETAIL-INTERIOR METAL FRAME
A7.02 3" = 1'-0"



6 THRESHOLD AT STOREFRONT DOORS
A7.02 3" = 1'-0"



9 SILL AT STOREFRONT FRAME
A7.02 3" = 1'-0"



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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD WAMEGO, KS 66547

Sheet Title:
DOOR AND WINDOW DETAILS

Sheet:
A7.02
Of:

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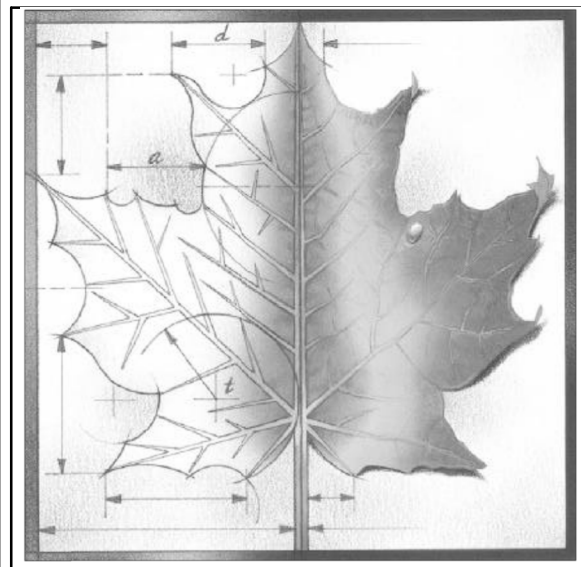
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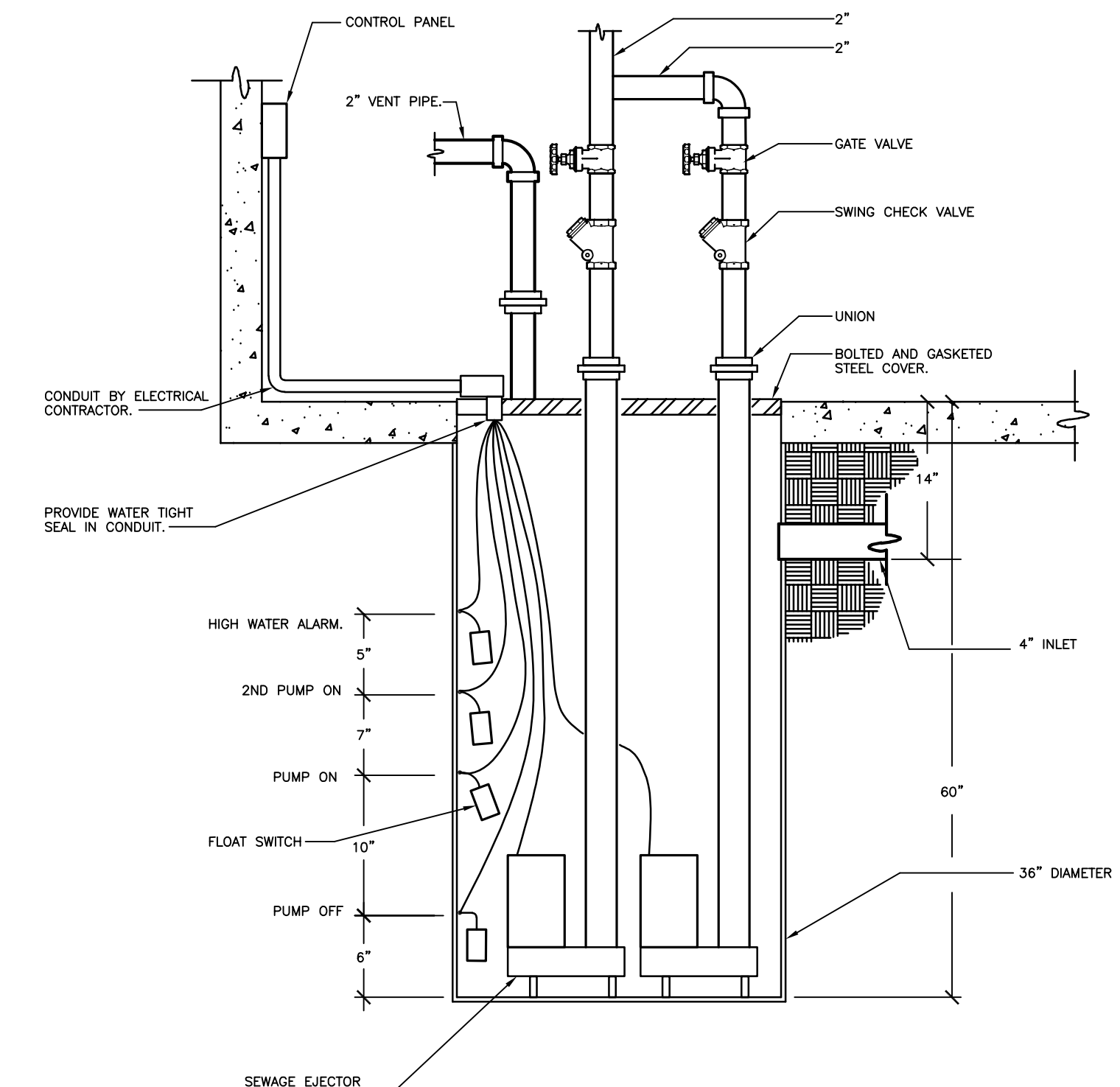
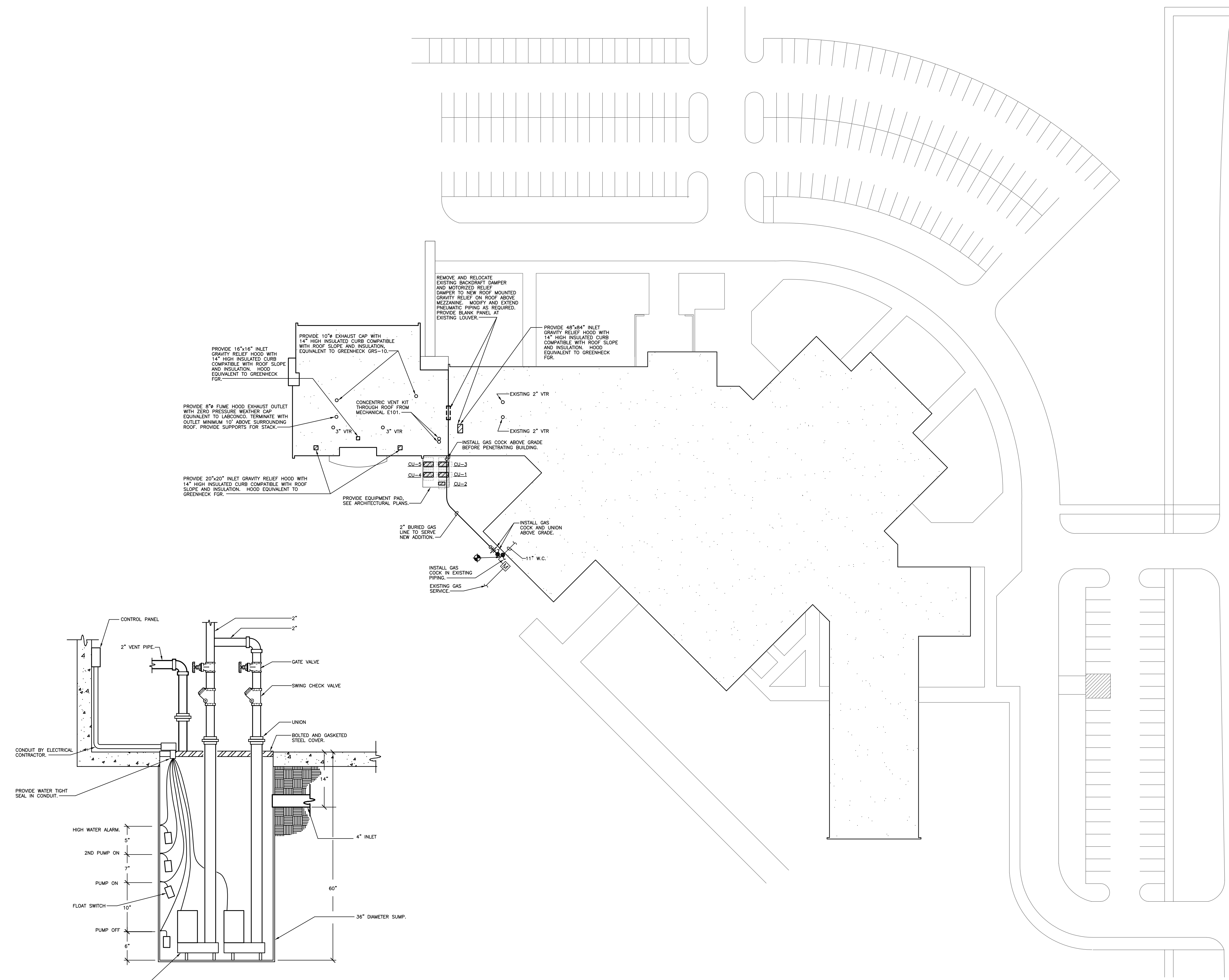
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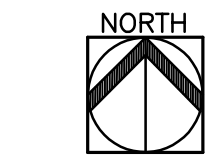
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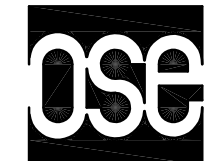


A SEWAGE EJECTOR DETAIL
NO SCALE



SITE PLAN - MEP
1" = 40'-0"

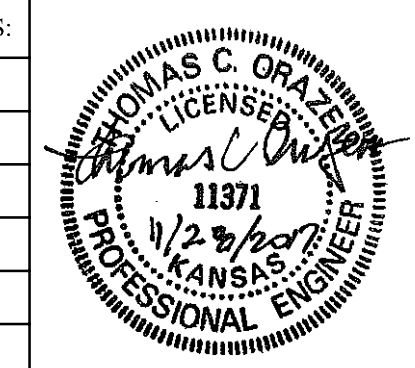
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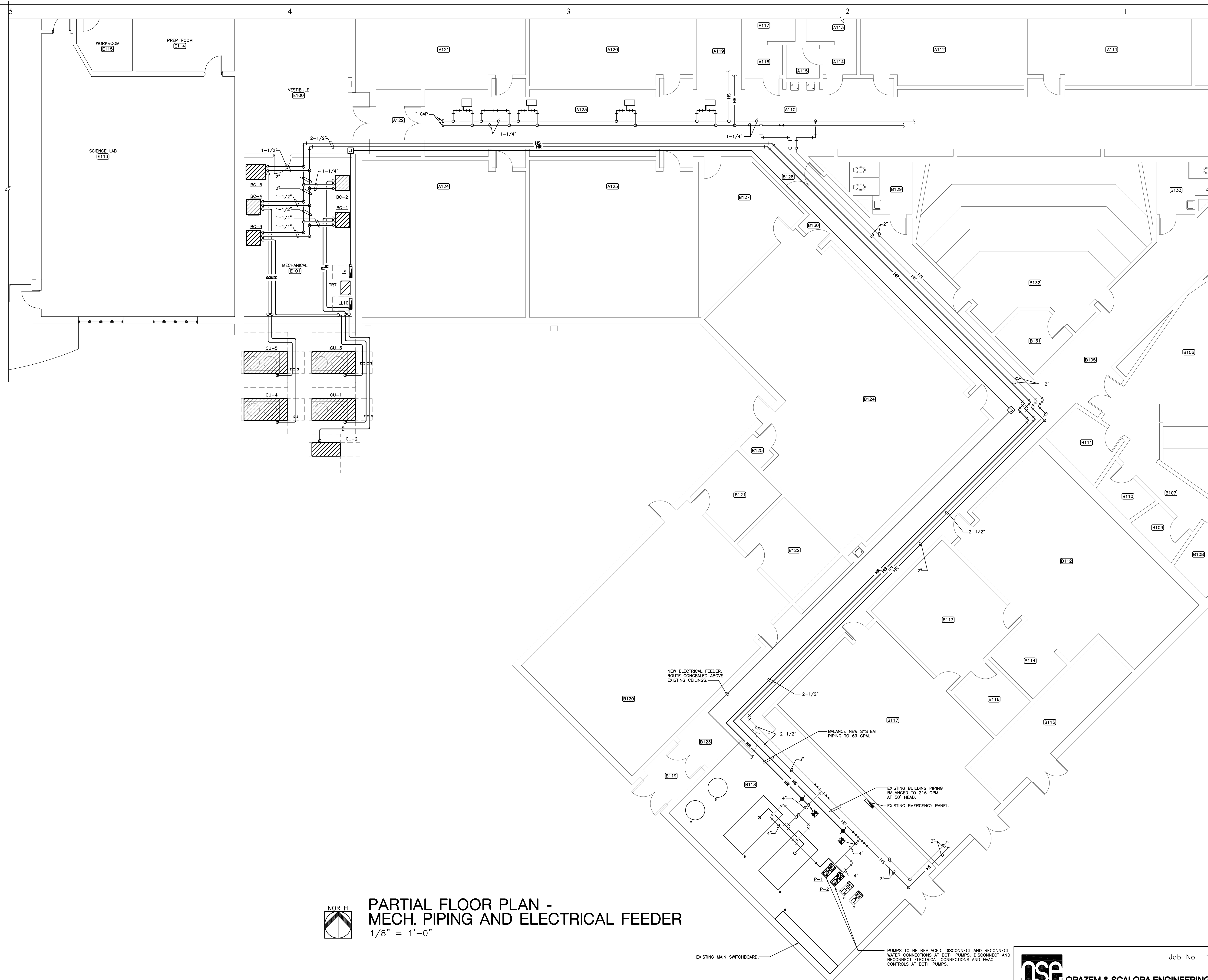
Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
Wamego, KS 66547**

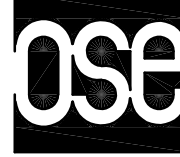
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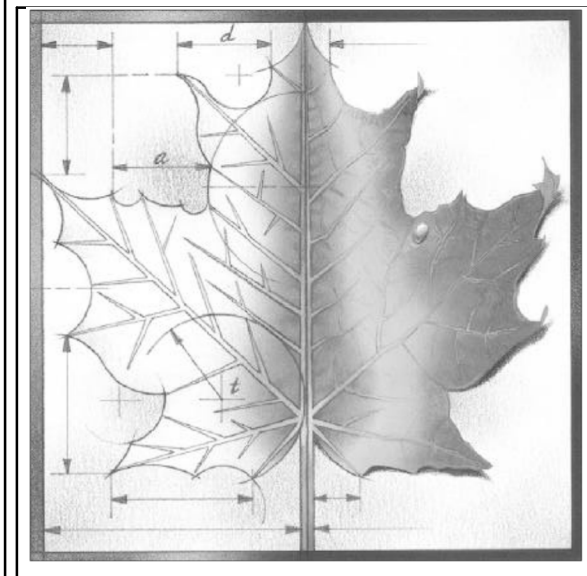
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ME101
Of: **11**



**PARTIAL FLOOR PLAN -
MECH. PIPING AND ELECTRICAL FEEDER**
1/8" = 1'-0"

EXISTING MAIN SWITCHBOARD. PUMPS TO BE REPLACED, DISCONNECT AND RECONNECT WATER CONNECTIONS AT BOTH PUMPS. DISCONNECT AND RECONNECT ELECTRICAL CONNECTIONS AND HVAC CONTROLS AT BOTH PUMPS.

Job No. 15011-1
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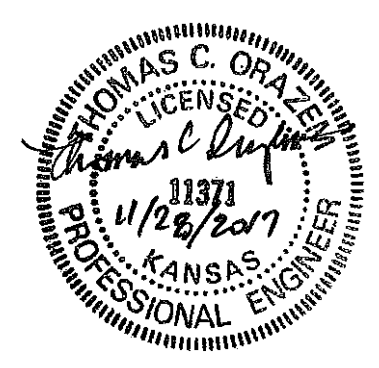
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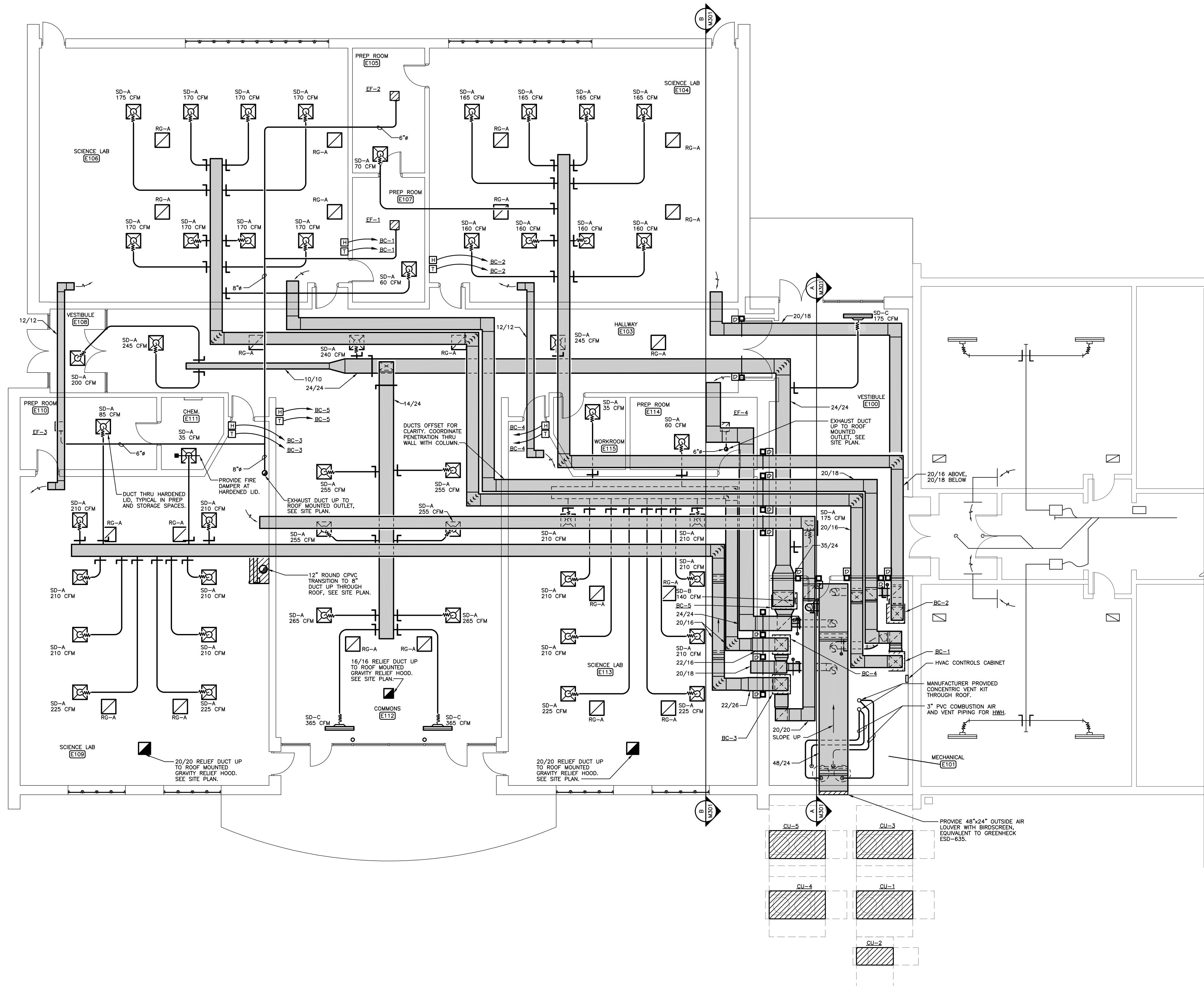
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**PARTIAL
 MECH./ELEC.
 PLAN**

Sheet:
ME102

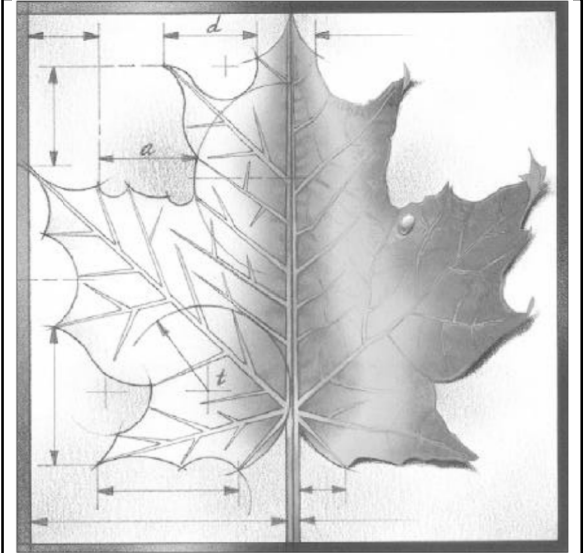
Of: **11**

MECHANICAL SYMBOLS LEGEND

	Thermostat
	90° Elbow down, round duct
	90° Elbow up, round duct
	Round duct offset
	Radius elbow
	90° Elbow down, rectangular supply duct
	90° Elbow up, rectangular supply duct
	90° Elbow down, rectangular return duct
	90° Elbow up, rectangular return duct
	Rectangular elbow with turning vanes
	Flexible duct
	Manual balancing damper
	Motorized damper
	Fire damper
	Smoke damper
	Combination fire/smoke damper
	Ceiling supply air diffuser
	Ceiling return air grille
	Sidewall supply air diffuser
	Sidewall return air grille
	Supply air slot diffuser
	Round tap in bottom of duct
	Rectangular tap in bottom of duct
	Condensate drain
	Cold water
	Hot water
	Tempered water
	Recirculated tempered water
	Natural gas
	Sanitary waste above grade
	Sanitary waste below grade
	Sanitary vent
	VTR Vent through roof
	Plumbing trap
	Pipe turning down
	Pipe turning up
	Shock arrester
	Ball valve
	Gas cock
	Union
	Temperature/pressure relief valve
	Strainer
	Aquastat
	Thermometer in well
	Temperature sensor in well
	Connection of new to existing
	Existing device
TYP	Typical
A.F.F.	Above finished floor
U.N.O.	Unless noted otherwise
N.I.C.	Not in contract
G.C.	General Contractor



ADDITION FLOOR PLAN - MECHANICAL DUCTWORK
1/8" = 1'-0"

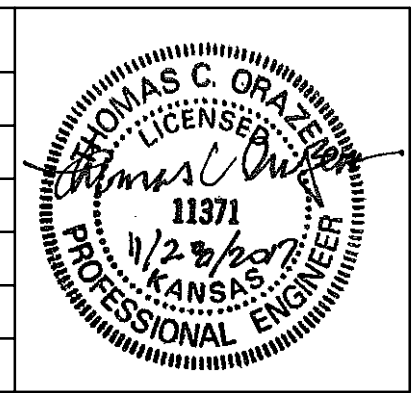


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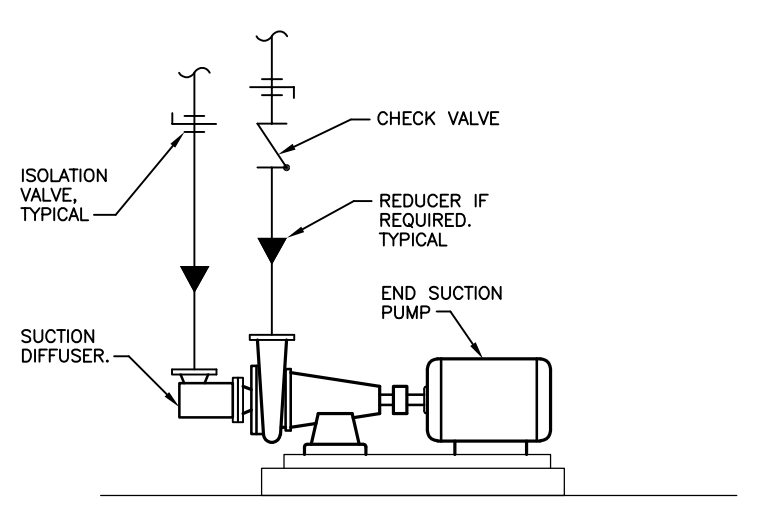
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Sheet Title:
MECHANICAL DUCTWORK PLAN

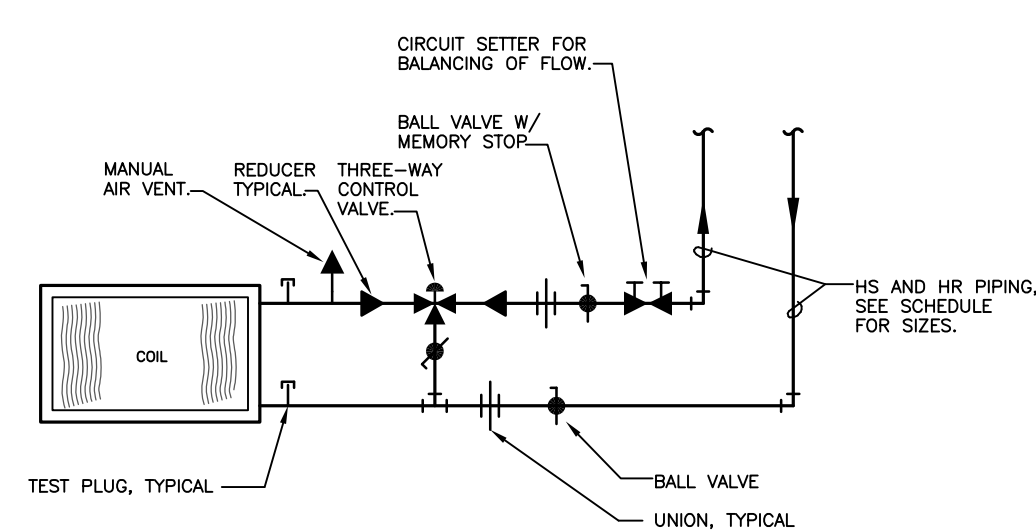
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OF: **11**

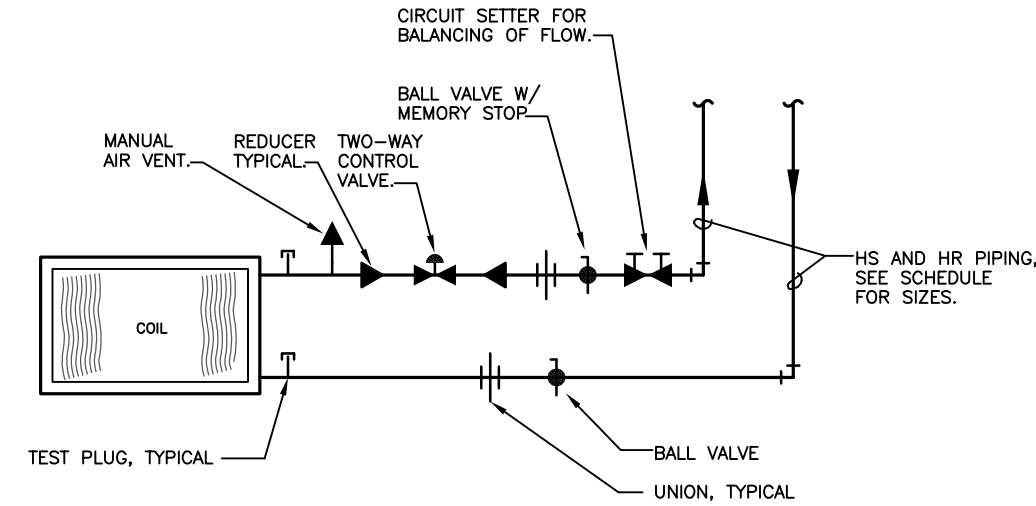
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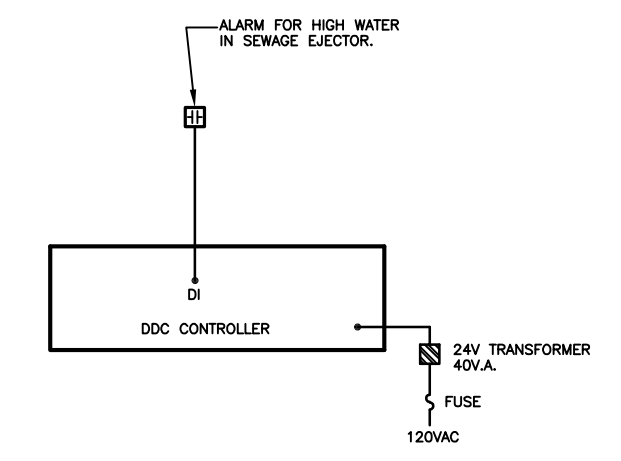
F END SUCTION PUMP DETAIL
NO SCALE



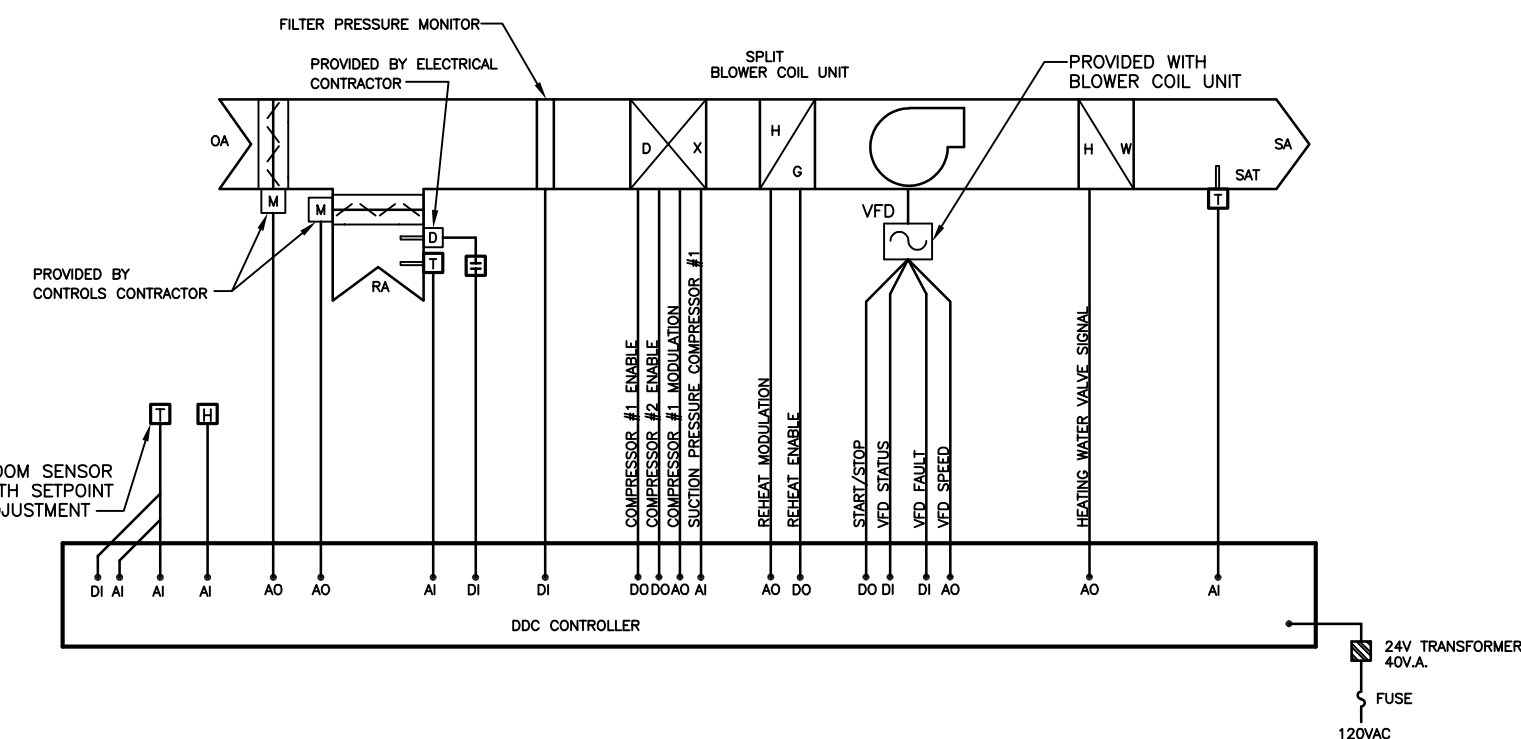
E BC-5 HOT WATER COIL PIPING DETAIL
NO SCALE



D HOT WATER COIL PIPING DETAIL
NO SCALE



C SEWAGE EJECTOR ALARM
NO SCALE



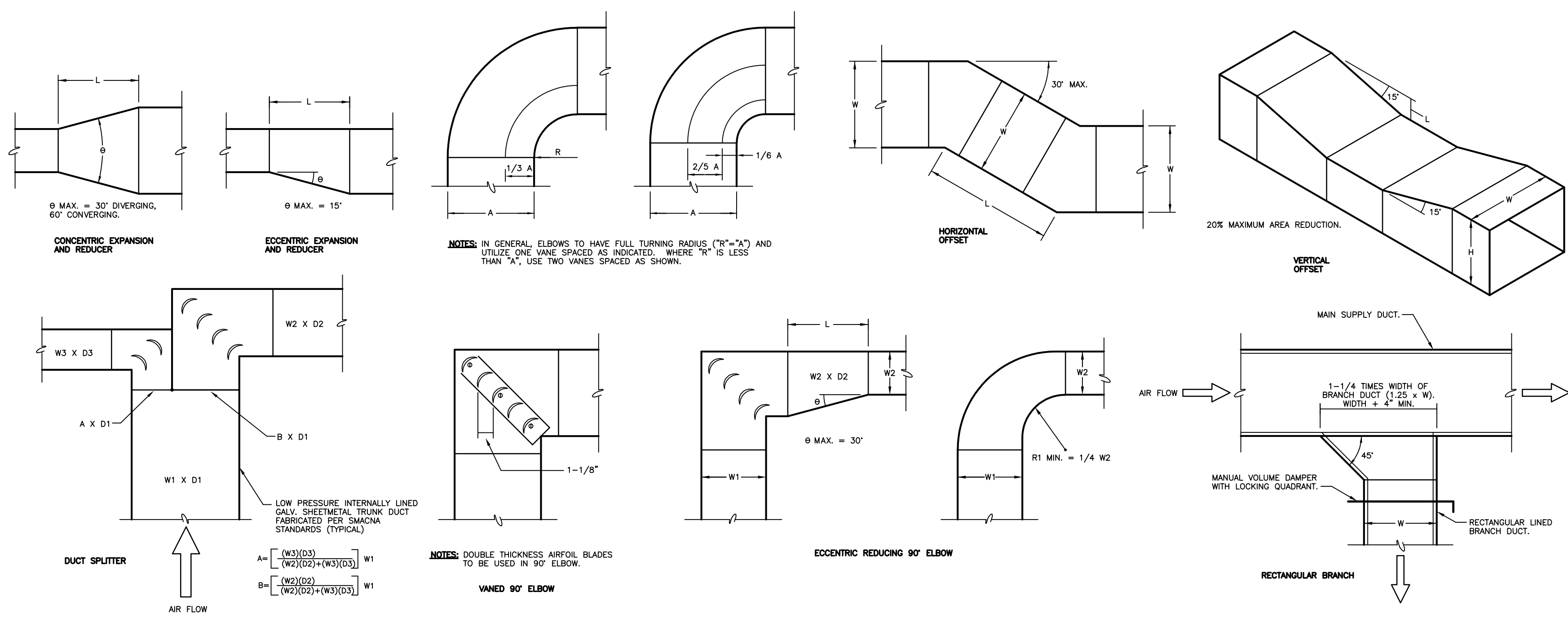
A SINGLE ZONE BLOWER COIL UNIT CONTROLS
NO SCALE

A/C SYSTEM SCHEDULE					
FURNACE	BC-1	BC-2	BC-3	BC-4	BC-5
TYPE	Vertical	Vertical	Vertical	Vertical	Vertical
SERVES	Science Lab E106	Science Lab E104	Science Lab E109	Science Lab E113	Common / Corridor
FAN CFM	1,425	1,330	1,830	1,805	3,705
ESP (INCHES)	1.25	1.25	1.25	1.25	1.25
FAN HP	1.34	1.34	1.34	1.34	4.0
VOLTS/PHASE	480/3	480/3	480/3	480/3	480/3
FULL LOAD AMPS	2	2	2	2	8
MAX. HACR CKT. BRKR. SIZE	15	15	15	15	15
MIN. CKT. AMPS	2	2	2	2	10
MIN. O.A. CFM	630	630	625	625	650
O.A. DUCT DIA. (INCHES)	12	12	12	12	12
HEATING SECTION					
HEATING TYPE	Hot Water	Hot Water	Hot Water	Hot Water	Hot Water
TOT. CAP. (MBH)	95.7	87.4	101.9	111.0	244.4
UNIT LAT DB (F)	100.8	99.5	90.7	95.8	99.7
ENTERING WATER TEMP (F)	160	160	160	160	160
LEAVING WATER TEMP (F)	130	130	130	130	130
MAX. PRESSURE DROP (FT)	1	1	1	1	1.2
GPM	11	9	12	12	25
COOLING SECTION					
TYPE	DX	DX	DX	DX	DX
NET SENS. CAP. (MBH)	51.0	44.0	55.1	50.5	89.8
NET TOT. CAP. (MBH)	72.1	57.5	74.9	73.8	119.6
EAT DB/WB (F)	80/67	55.6/54.3	55.2/53.3	54.3/52.5	55.0/53.3
UNIT LAT DB/WB (F)	52.1/50.7	80/67	80/67	80/67	80/67
BASED ON ()	V3-BRB-3-0-142D-12F	V3-BRB-3-0-141D-12F	V3-BRB-3-0-142D-12F	V3-BRB-3-0-142D-12F	V3-CRB-3-0-142D-12F
CONDENSING UNIT					
TYPE	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED
O.A. TEMP. (F)	105	105	105	105	105
REF. LINES O.D. - LIQUID (INCHES)	7/8	1-1/8	7/8	7/8	1-1/8
SUCTION (INCHES)	1/2	1/2	1/2	1/2	1/2
VOLT/PHASE	480/3	480/3	480/3	480/3	480/3
FULL LOAD AMPS	20	12	20	20	27
MAX. HACR CKT. BRKR. SIZE	25	20	25	25	40
MIN. CKT. AMPS	22	15	22	22	30
MINIMUM EER AT OPERATING CONDITIONS	9.2	9.9	9.6	9.5	9.9
BASED ON (A/CN)	CFA-009-B-A-3-DC00K	CFA-007-A-A-3-DC00H	CFA-009-B-A-3-DC00K	CFA-009-B-A-3-DC00K	CFA-013-B-A-3-DC00K
EQUIPMENT NOTES:					
1. Provide all required transitions, adapters.					
2. Maintain all Manufacturer's recommended clearances.					
3. Provide flexible connections at supply and return duct connections to unit.					
4. Provide terminal strip for connection to Owner's building control system.					

EXHAUST FAN SCHEDULE	
DESIGNATION	EF-1,2,3,4
DUTY	Exhaust
AREA SERVED	See Plans
TYPE	Centrifugal Cabinet
CFM	75
EXT. S.P. ("w.g.)	0.25
TYPE DRIVE	Direct
DESIGN HP OR (WATTS)	(50)
MOTOR RPM	700
MAX. SONES	1.1
ACCESSORIES	1,2,3
VOLTAGE/PHASE	120/1
BASED ON: (Greenheck)	SP-B110
ACCESSORY KEY:	
1. Provide with backdraft damper.	
2. Provide with factory mounted and wired disconnect.	
3. Provide with unit-mounted solid state speed control.	

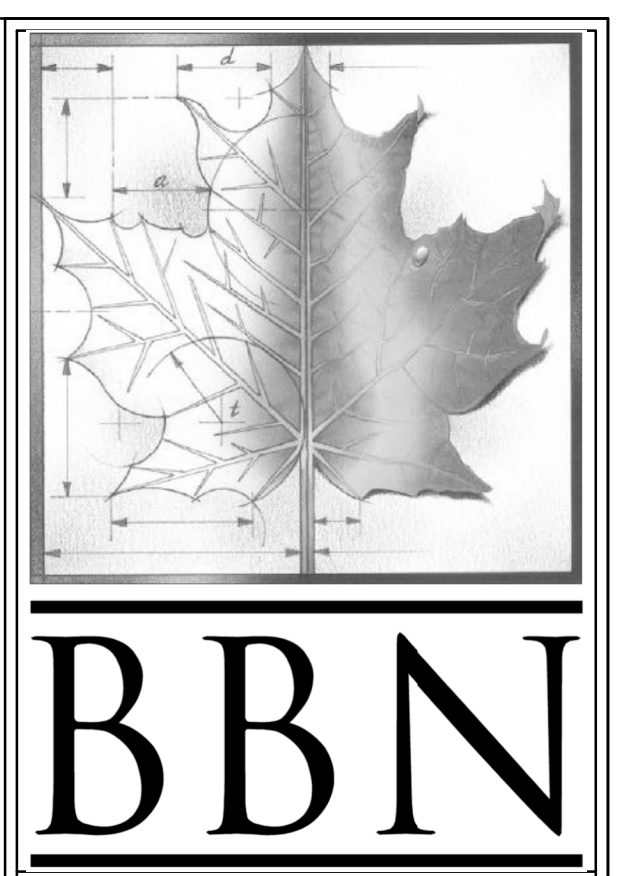
PUMP SCHEDULE		
DESIGNATION	P-1	P-2
LOCATION	Boiler Room	Boiler Room
DUTY	Heating Hot Water	Heating Hot Water
TYPE	Base Mount End Suction	Base Mount End Suction
GPM	285	285
TOTAL HEAD (FT)	55	55
LIQUID TEMP (F)	160	160
MOTOR HP	7.5	7.5
MOTOR RPM	1800	1800
VOLTAGE	480/3	480/3
BASED ON: (BELL & GOSSETT)	E-1510 3BD	E-1510 3BD
NOTES:		
1. See specifications for acceptable manufacturers.		

FUME HOOD SCHEDULE	
DESIGNATION	FH-1
LOCATION	Science E109
NOMINAL LENGTH (FT)	4
CFM WITH SASH OPEN 28" P.D. @ HOOD ("w.g.)	725
AIR VELOCITY @ SASH (FPM)	0.15
EXHAUST DUCT CONNECTION(S)	100
SERVICES	
ELECTRICAL	(1) 12.75"
	(2) 120V DUPLEX RECEPTACLES
COLD WATER	N/A
HOT WATER	N/A
NATURAL GAS	N/A
AIR	N/A
VACUUM	N/A
FAN TYPE	Fiberglass Fume Fan Centrifugal Direct Drive with Speed Controller
CFM	725
EXT. S.P. ("w.g.)	0.75
MOTOR HP	1/3
VOLTAGE/PHASE	120/1
INLET SIZE (INCHES)	12.38
OUTLET SIZE (INCHES)	12.75
BASED ON (LABCONCO)	100400042
PHYSICAL SIZE	48"x30"x59"H
NOTES:	
1. Provide hood with sash stop kit set to limit opening to 18". Labconco catalog number 9724500.	
2. Provide hood with airflow monitor kit for 120V operation, Labconco catalog number 9743211.	
3. Provide hood with telescoping base stand, Labconco catalog number 3746702, and worksurface Labconco catalog number 9500400.	
4. Provide hood with prewired T8 fluorescent lights with face mounted switch. (By Owner)	
5. Fume hood ductwork shall be CPVC and shall be leak tested to ensure proper seal. All joints shall be sealed with a hard cast sealant. Leak test shall be performed with an indicator.	



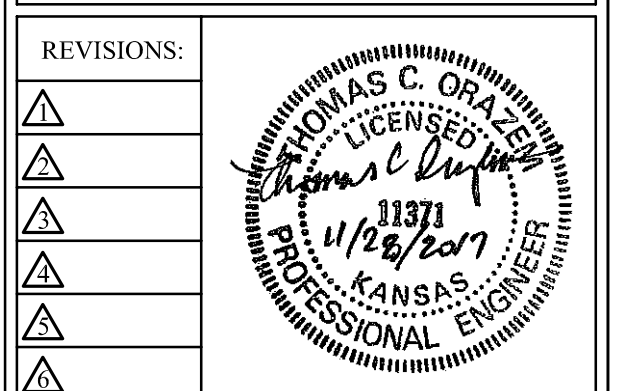
B DUCT CONSTRUCTION DETAILS
NO SCALE

AIR DEVICE SCHEDULE				
All devices shall be supplied in white finish suitable for field painting.				
SD-A	EH Price SMD/3P/4A steel louvered flush face diffuser, 24" square face, round neck, to lay into T-bar ceiling. Bluff pattern is 4-way unless indicated otherwise.	CFM Range	Max. APD	Max. NC
		0-110	0.10	30
		111-200	0.10	30
		201-300	0.10	30
		301-400	0.10	30
		401-535	0.10	30
				Neck Dia.
				6"
				8"
				10"
				12"
				14"
Unless noted otherwise, runouts to diffusers shall be same size as neck.				
SD-B	EH Price 520D steel double deflection sidewall register with 0 degree horizontal front blades, 1-1/4" screwed flanged frame, gasketed border, opposed blade damper. Size as indicated on drawings.			
SD-C	EH Price TBD-4 slot diffuser, 4-slot, designed to straddle the main T-bar with support T-bars along diffuser perimeter, 1-1/4" wide slots, 4" long, 12" round neck, 1/4" fiberglass insulated sheetmetal plenum.			
RG-A	EH Price SMD/6 steel louvered flush face return grille with 12" square neck, 24" square face, gasketed frame, to install in hard ceiling.			



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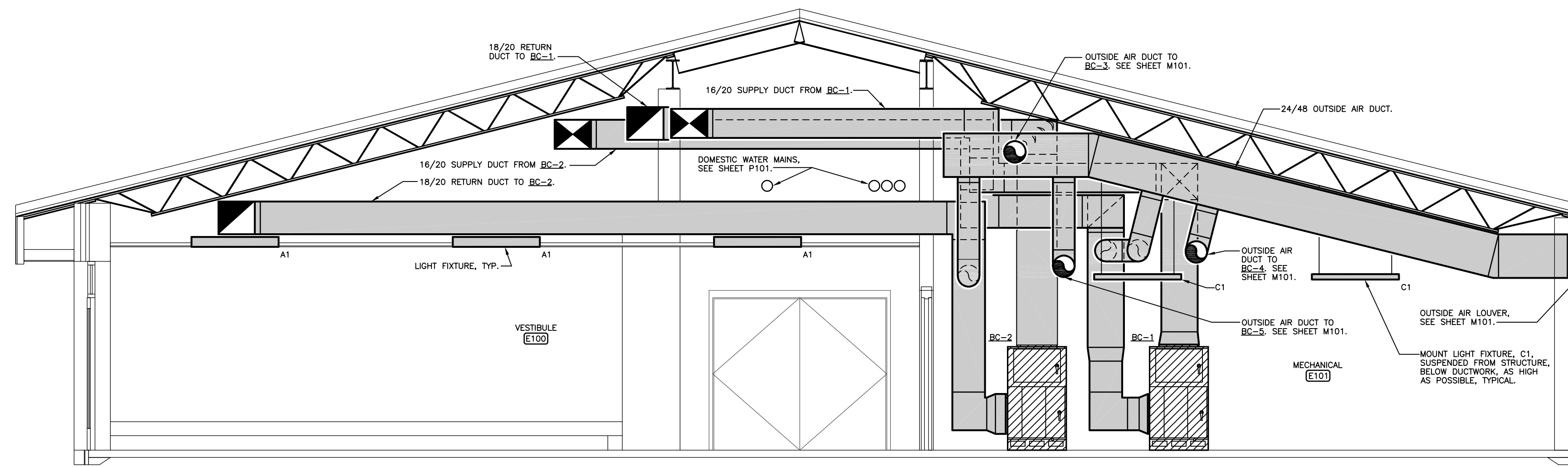


Project Number: **16036**
 Date: **11/28/17**
 Project Name: **USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION**
 Project Address: **1701 KAW VALLEY ROAD Wamego, KS 66547**

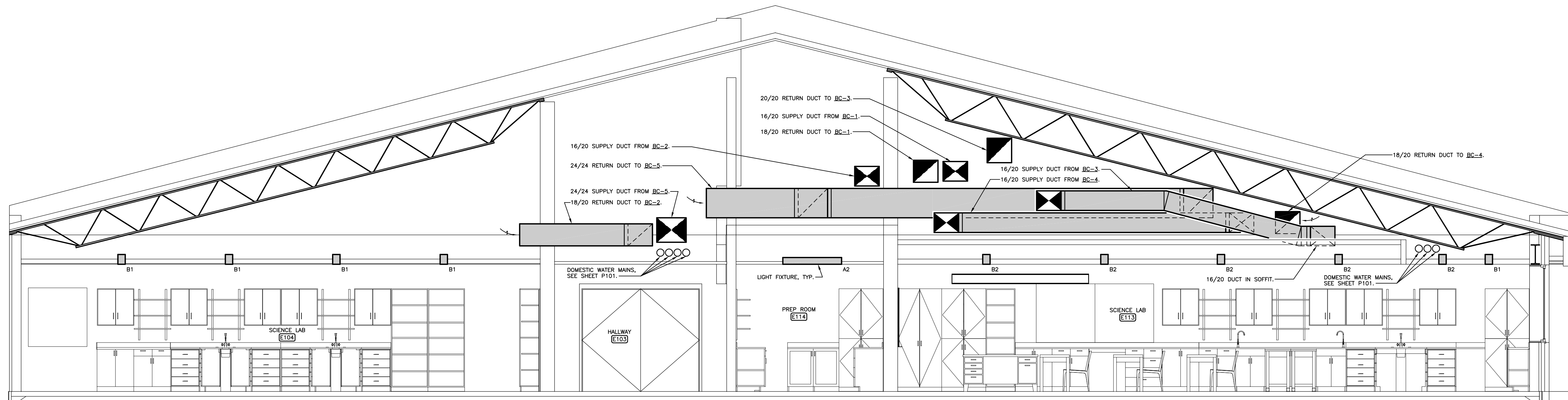
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Sheet: **M201**
 Of: **11**

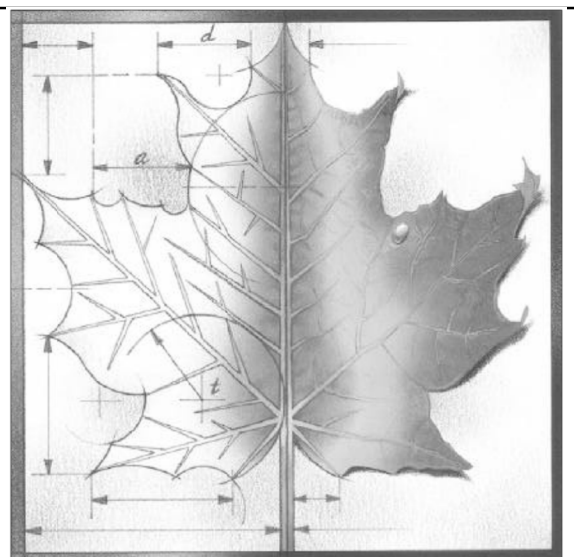
5 4 3 2 1



A MEP SECTION
1/4"=1'-0"



B MEP SECTION
1/4"=1'-0"



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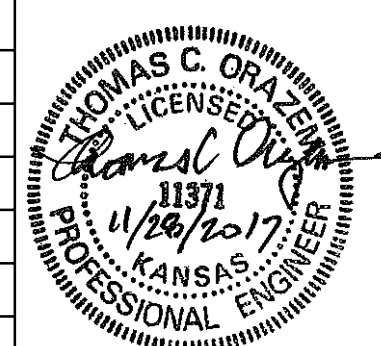
A

B

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USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

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Sheet Title:

MEP SECTIONS

Sheet: **M301**

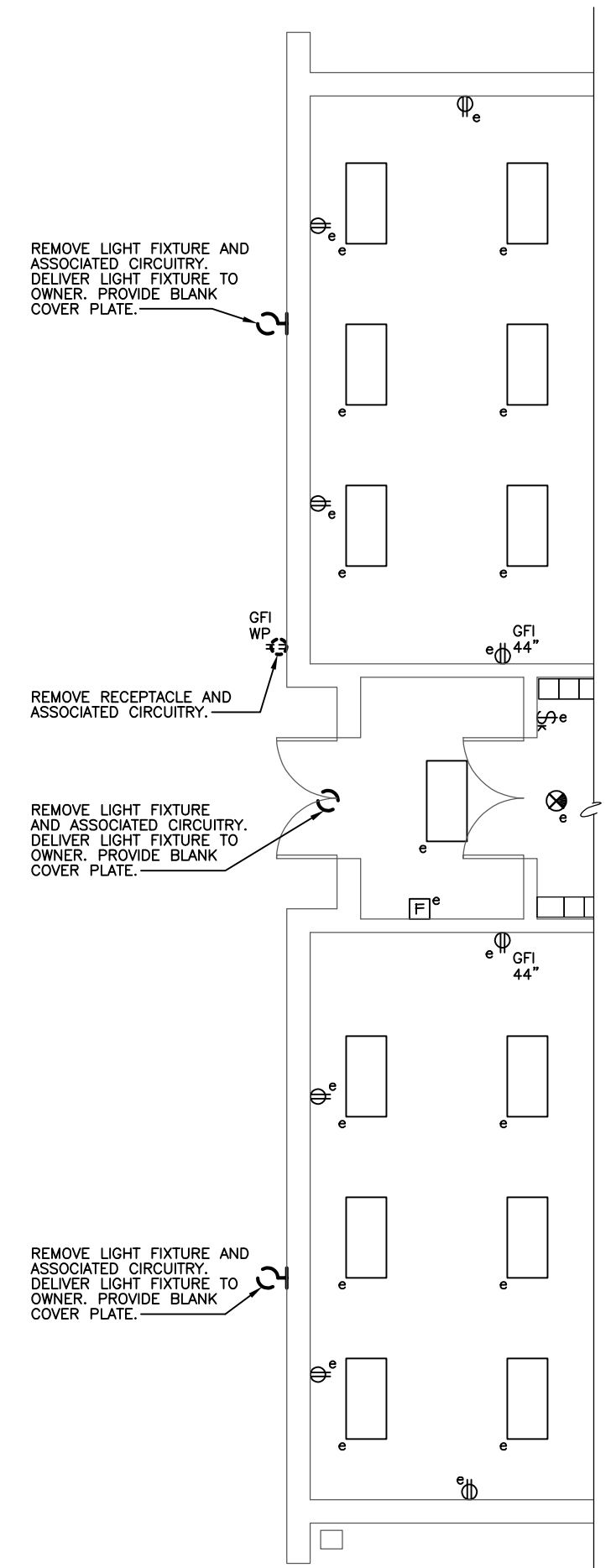
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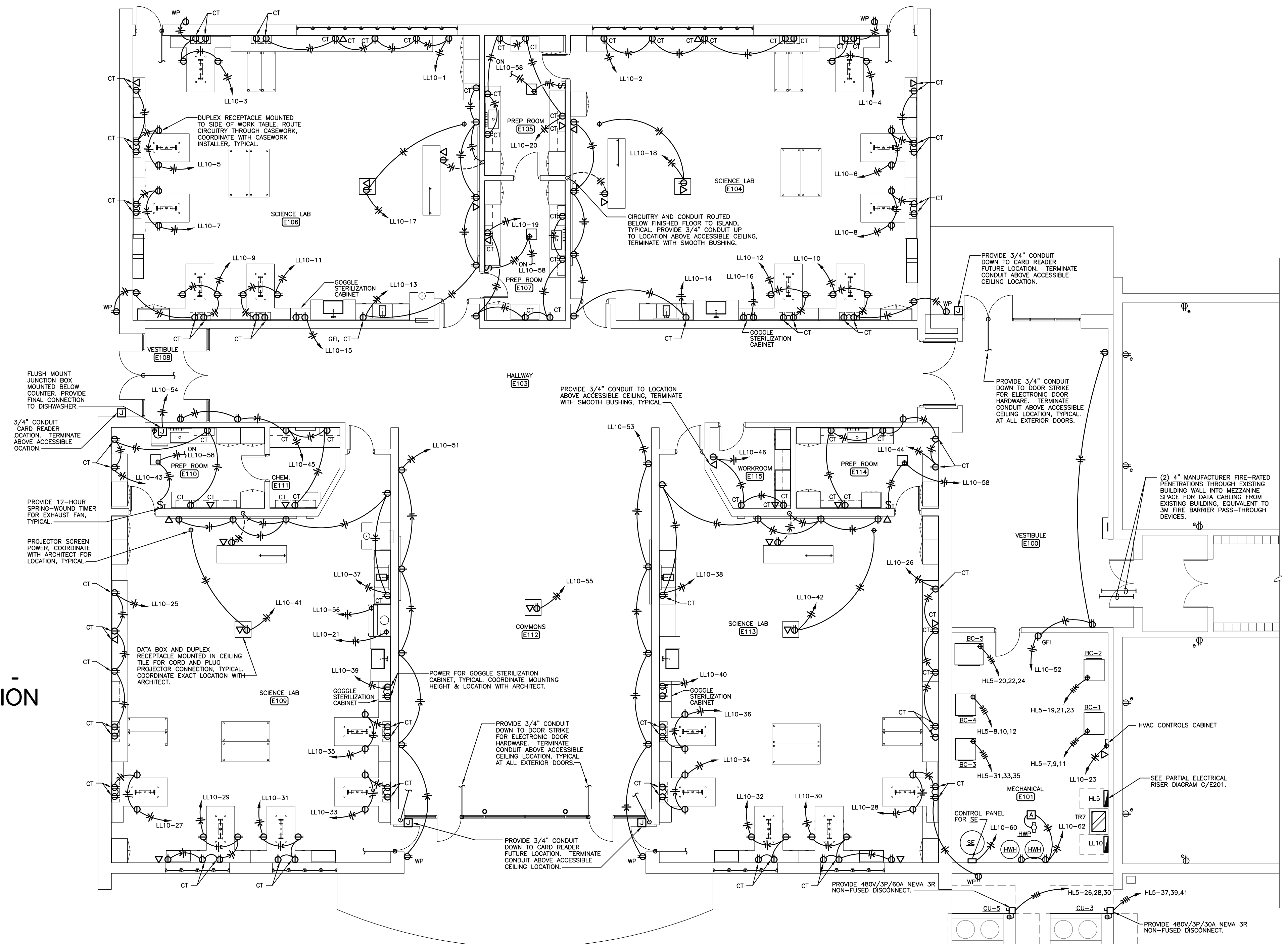
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ELECTRICAL SYMBOLS LEGEND

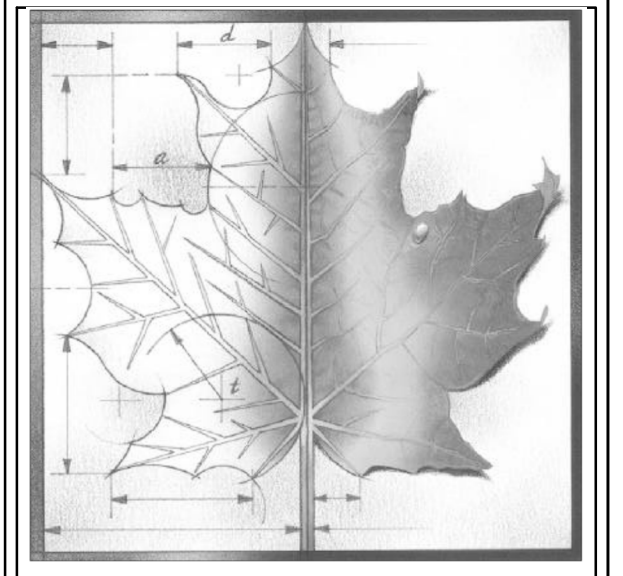
	Duplex receptacle
	Ground fault interrupting duplex receptacle
	Countertop duplex receptacle
	Weatherproof duplex receptacle
	Four-plex receptacle
	Special receptacle as noted
	Data box
	Countertop data box
	Flush junction box
	Surface or concealed junction box
	Electrical connection to equipment
	Single pole switch
	Three-way switch
	Four-way switch
	Manual motor starter
	Relay switch
	Test switch
	Electrical disconnect switch
	Motor starter
	Electrical motor
	Conduit concealed in wall or ceiling
	In-floor conduit
	Horn/ring to panelboard with conductors as indicated. Do not show neutrals unless noted otherwise.
	Panelboard
	Transformer
	Electrical meter
	Fire alarm horn/strobe
	Fire alarm pull station
	Fire alarm duct smoke detector
	Fire alarm test switch
	Fire alarm relay/addressable control module
	Fire alarm addressable monitor module
	Fire alarm strobe
	Fire alarm control panel
	Light fixture on emergency circuit
	Existing device
	Circuit breaker
	Unless noted otherwise
	Above finished floor
	Not in contract
	Typical
	General Contractor



PARTIAL FLOOR PLAN - ELECTRICAL DEMOLITION
1/8" = 1'-0"



ADDITION FLOOR PLAN - POWER
1/8" = 1'-0"



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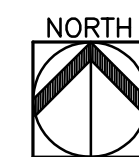
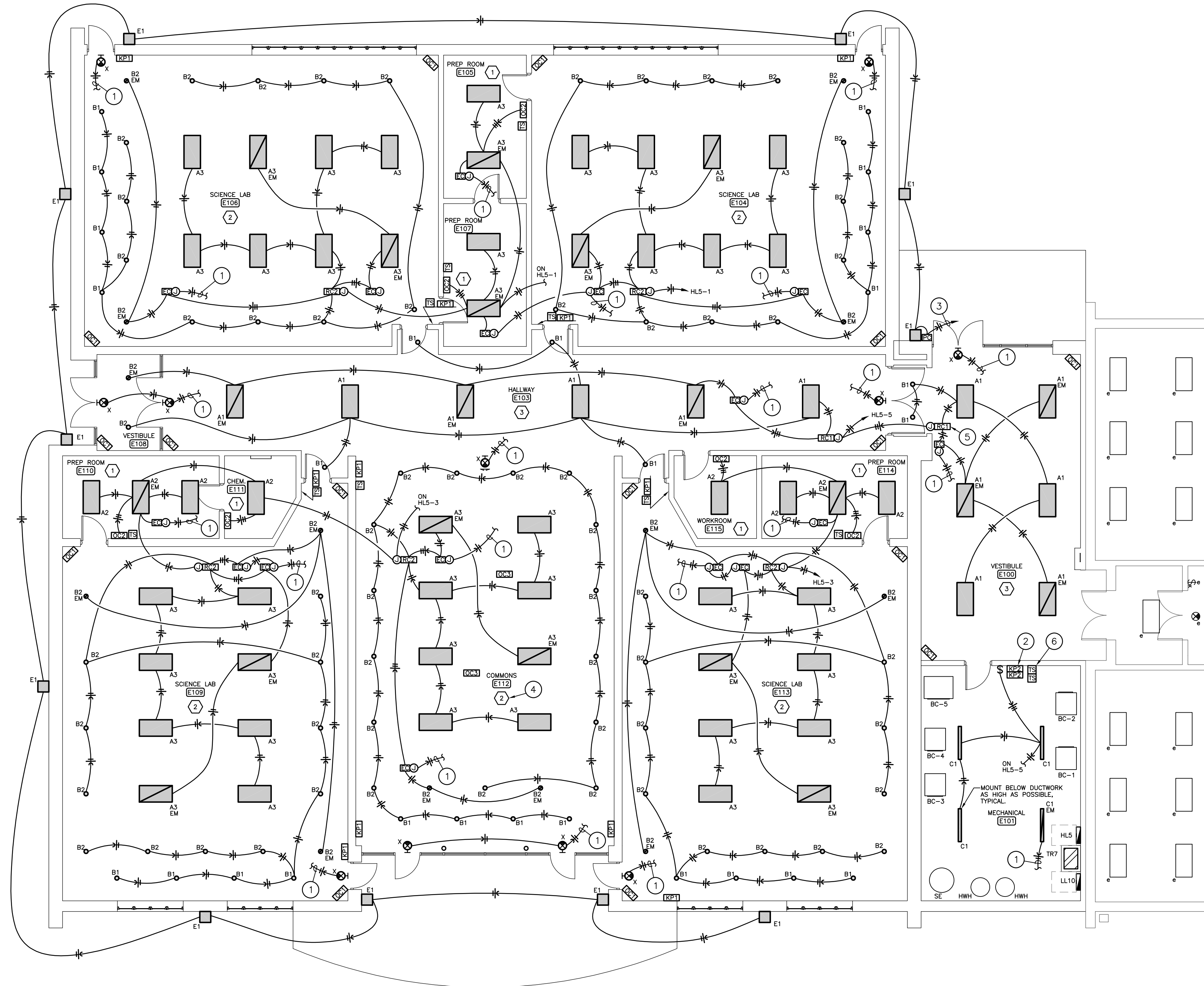
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Sheet Title:
ELECTRICAL PLAN

Sheet:
E101
Of: **11**

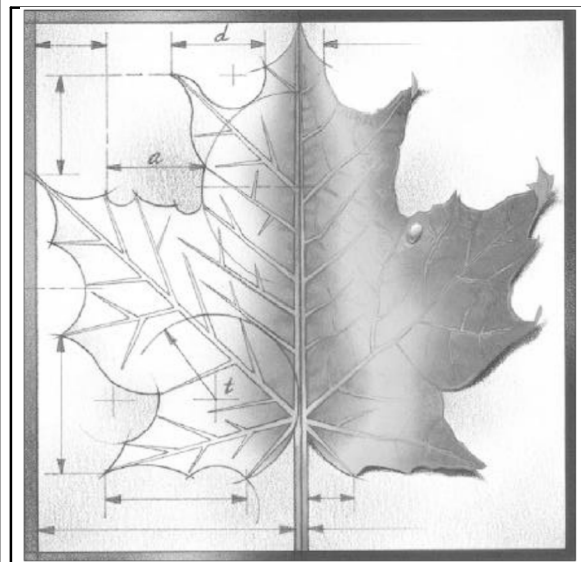
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ADDITION FLOOR PLAN - LIGHTING
1/8" = 1'-0"

NOTES BY SYMBOL

- ① 2#12,#12G TO (1) NEW 20A/1P CIRCUIT BREAKER IN EMERGENCY PANEL IN BOILER ROOM B118, SEE MET02. ALL INTERIOR EMERGENCY LIGHTING IN THIS ADDITION TO BE SERVED FROM A SINGLE CIRCUIT.
- ② KP2 FOR VESTIBULE E108 AND HALLWAY E103, AND VESTIBULE E100.
- ③ 2#12,#12G TO (1) NEW 20A/1P CIRCUIT BREAKER IN EMERGENCY PANEL IN BOILER ROOM B118, SEE MET02. CIRCUIT FIXTURES THROUGH PHOTOCELL (PC) EQUIVALENT TO INTERMATIC K4221C.
- ④ LIGHTING CONTROL SEQUENCE MARK, TYPICAL. SEE SCHEDULE ON SHEET E201.
- ⑤ SEE TYPICAL LIGHTING CONTROL WIRING DIAGRAM A/E201, TYPICAL.
- ⑥ EMERGENCY LIGHTING TEST SWITCH, TYPICAL.

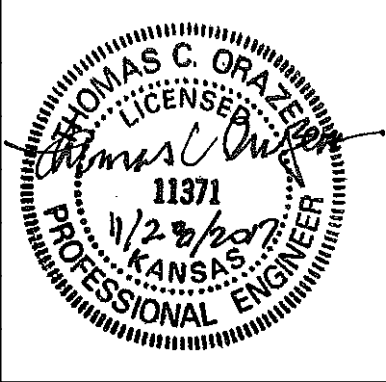


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REVISIONS:



Project Number: **16036**

Date: **11/28/17**

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:

**1701 KAW VALLEY ROAD
Wamego, KS 66547**

Sheet Title:

LIGHTING PLAN

Sheet: **E102**

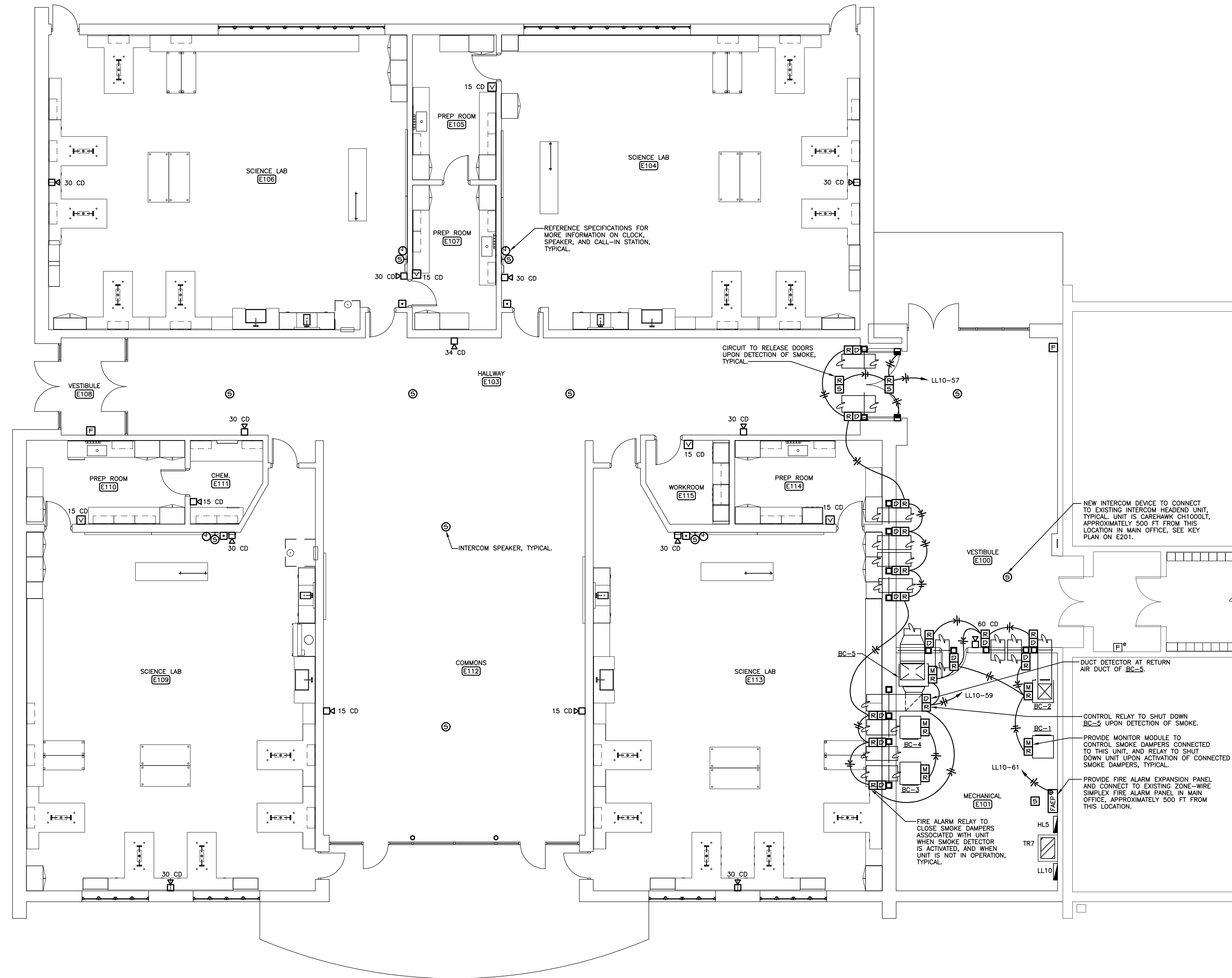
Of: **11**

FIRE ALARM SYSTEM NOTES

- The existing building is presently equipped with a Simplex 4100 fire alarm system. The fire alarm system shall be extended to accommodate the indicated new devices.
- Provide all equipment, circuitry, installation labor and programming for a complete and fully functional system in accordance with the local building codes and the supplying manufacturer's recommendations.
- Equipment and accessories furnished for this system shall be the standard products of the supplying manufacturer, equivalent to the product of the Simplex Company, and shall be compatible with the existing fire alarm system. All new equipment shall be U.L. listed.
- Field verify all existing circuitry and verify new circuiting requirements with equipment manufacturer. New circuitry shall be in conduit where concealed. Circuitry above accessible ceilings may be plenum rated cable.
- Existing fire alarm system does not dial out to emergency services on alarm. Provide all necessary hardware and coordinate with telephone provider to ensure system will dial emergency services upon alarm activation.
- At completion of system, test all new or relocated fire alarm devices. Testing shall be in accordance with NFPA 72, and shall be conducted in the presence of the Owner's representative, a representative of the local fire department, and a representative of the fire alarm equipment manufacturer.
- When required by the Kansas State Fire Marshal's Office provide documentation including fire alarm shop drawings sealed by a Kansas licensed engineer and submit to the Kansas State Fire Marshal's Office for approval in accordance with the Kansas Fire Prevention Code.

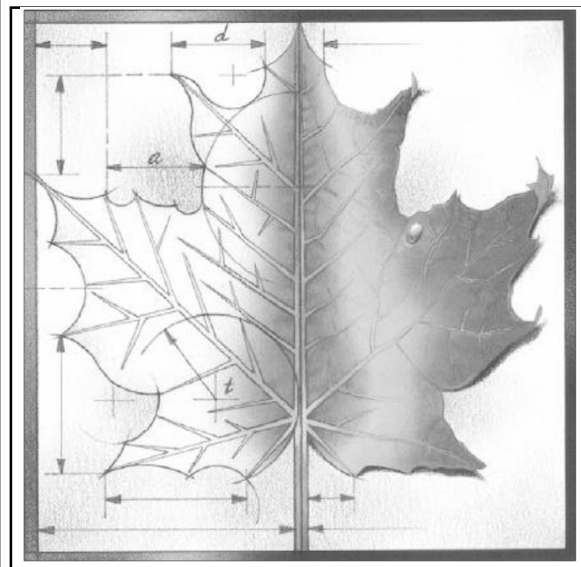
FIRE ALARM SYSTEM CODES OF RECORD

- 2012 INTERNATIONAL BUILDING CODE
- 2012 INTERNATIONAL FIRE CODE
- 2010 NFPA 72 NATIONAL FIRE ALARM CODE



ADDITION FLOOR PLAN - SPECIAL SYSTEMS

1/8" = 1'-0"

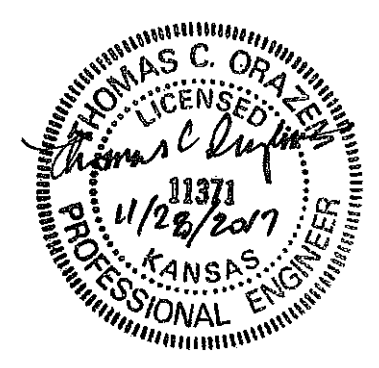


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Project Number: 16036

Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:

1701 KAW VALLEY ROAD
Wamego, KS 66547

Sheet Title:

SPECIAL SYSTEMS PLAN

Sheet: E103

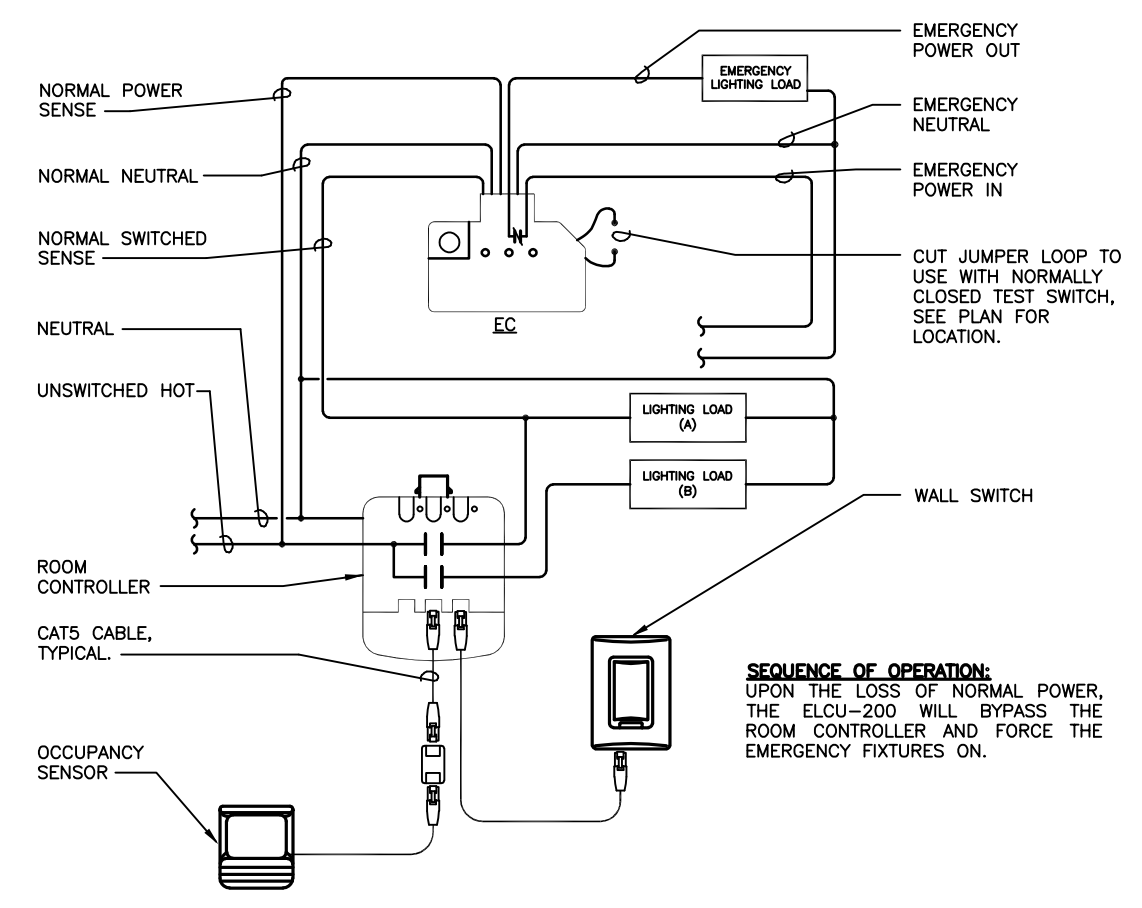
Of: 11

Preliminary - Not For Construction - 11/13/17

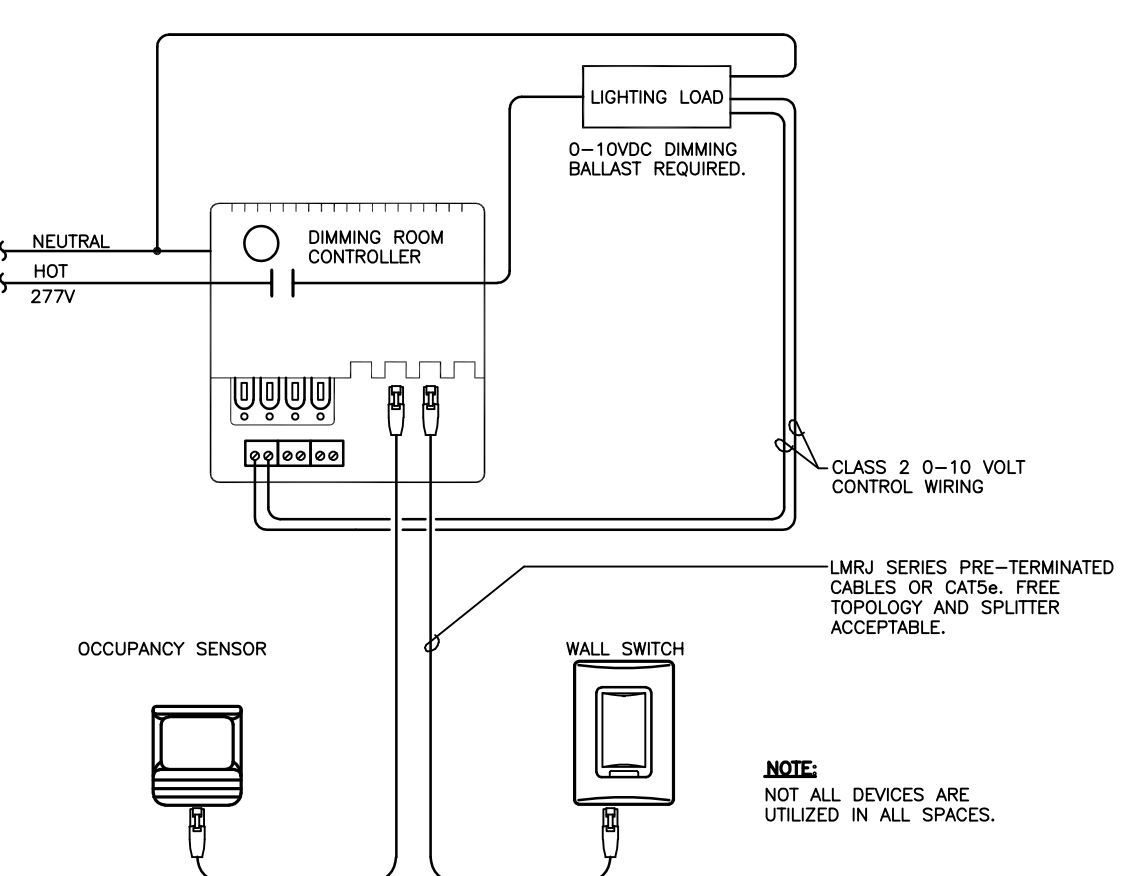


Job No. 15011-1

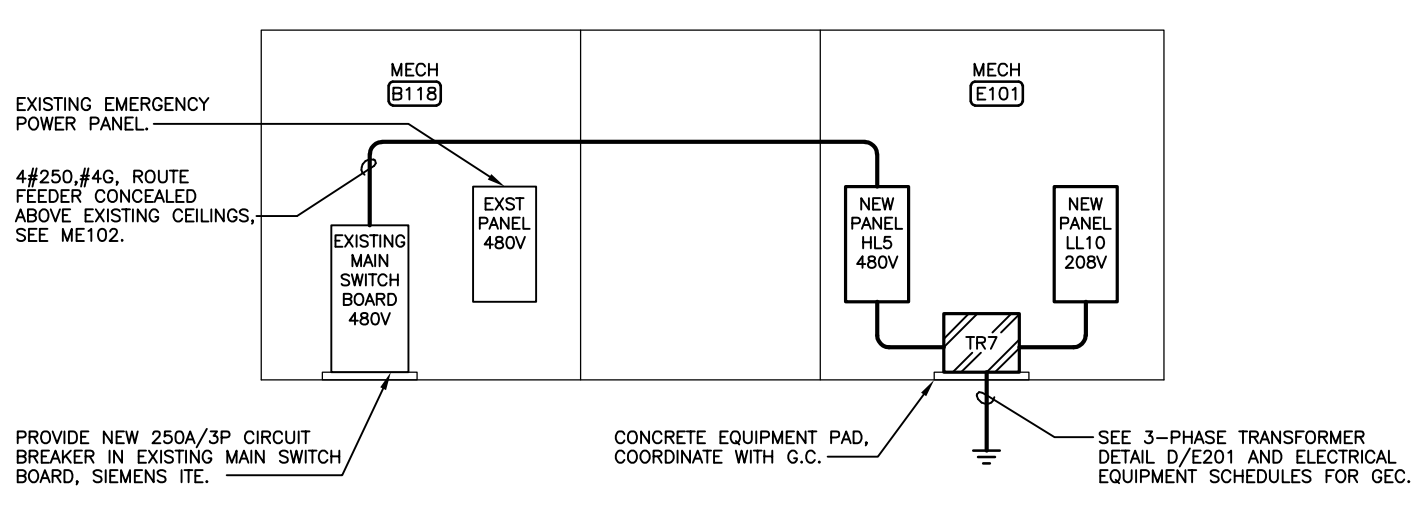
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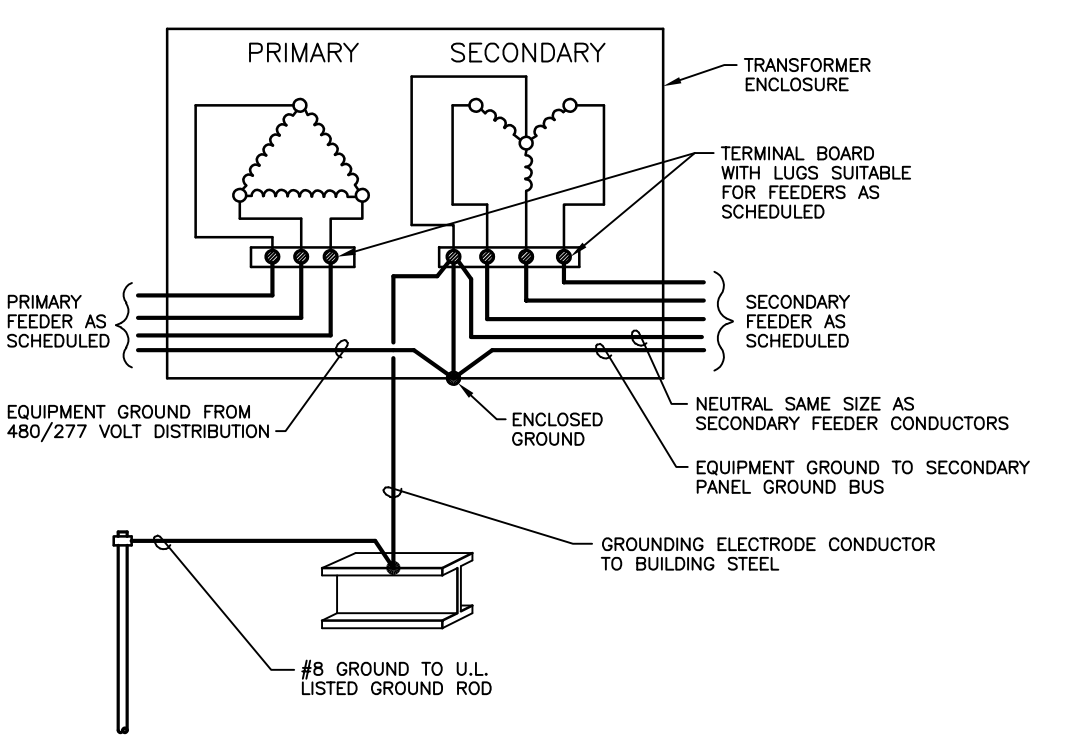
A TYPICAL LIGHTING CONTROL WIRING DIAGRAM NO SCALE



B DIMMING LIGHTING CONTROL WIRING DIAGRAM NO SCALE



C PARTIAL ELECTRICAL RISER DIAGRAM NO SCALE



D 3-PHASE TRANSFORMER DETAIL NO SCALE

LIGHTING FIXTURE SCHEDULE

MARK	SIZE	MANUF.	DESCRIPTION	LAMPS
A1	2' x 4'	Williams	Series PT LED lay-in troffer with precision die-formed 22-gauge cold rolled steel housing, diffuse ribbed acrylic shielding, highly reflective non-glare matte white polyester powder coat bonded finish, and room-side access to electrical components without removing fixture from ceiling grid. Provide with 4,000K lumen package producing 3,300 nominal lumens, L70 rated for greater than 50,000 hours, with efficacy greater than 100 lm/W, and 0-10V dimming capability.	LEDs 34W
A2	2' x 4'	Williams	Similar to type 'A1' except to be provided with 4,000K lumen package producing 5,800 nominal lumens, with efficacy greater than 100 lm/W, and 0-10V dimming capability.	LEDs 54W
A3	2' x 4'	Williams	Similar to type 'A1' except to be provided with 4,000K lumen package producing 7,800 nominal lumens, with efficacy greater than 100 lm/W, and 0-10V dimming capability.	LEDs 74W
B1	6" Dia. x 5" D	Halo	Series PD6 shallow lens LED downlight with 6-inch aperture, one piece parabolic aluminum reflector, and clear specular finish. Provide fixture with 4,000K lumen package producing 1,000 nominal lumens at 12 watts, and an electronic driver with 0-10V dimming capability.	LEDs 12W
B2	6" Dia. x 5" D	Halo	Similar to type 'B1' except to be provided with 4,000K lumen package producing 1,500 nominal lumens at 18 watts, and 0-10V dimming capability.	LEDs 18W
C1	2-3/4" W x 3-1/4" D x 48" L	Williams	Series 75L lensed LED strip fixture with 22 ga. cold rolled steel housing, all parts painted to a minimum 92% average reflectance, and 0.125" thick acrylic frosted lens. Provide all necessary hardware to surface mount or chain hang fixture as required. Provide fixture with 4,000K lumen package 3,800 nominal lumens at 56 watts, an electronic driver prewired for non-dimming applications, and rated for 50,000 hours at 70% lumen maintenance.	LEDs 56W
E1	16-5/8" W x 10" H x 15" D	Lumark	Series WP Wal-Pak LED wall pack with one-piece die-cast aluminum housing, and hinged, removable die-cast aluminum door, one-piece silicone gasket sealing the optical chamber, UL listed for wet locations, highly reflective anodized aluminum reflectors, full cutoff door, and polyester powder coat point finish in color selected by Architect. Provide fixture with 4,000K lumen package producing 2,239 lumens at 32 watts. Mounting height to match exterior fixtures on existing building, coordinate with Architect.	LEDs 32W
X	12-3/4" W x 8-1/2" H x 2-1/4" D	Mule	Series Classic emergency powered exit light with red letters, vandal resistant die-cast aluminum housing, universal chevrons, 100 ft. visibility, all required mounting hardware, one or two faces as indicated on plans, wall or ceiling mount as indicated on plans. Provide fixture for AC operation only.	LED 2W

NOTES:
1. All fixtures to be provided for 277 volt AC operation unless noted otherwise.
2. Coordinate mounting heights of all wall mounted fixtures with Architect prior to roughing in.
3. EM fixture mark designates fixture will function in both normal and emergency operation.

LIGHTING CONTROL DEVICE SCHEDULE

MARK	MANUF.	DESCRIPTION	MOUNTING
LOC1	Watt Stopper	LMDC-100 dual technology sensor with passive infrared and ultrasonic sensors, 40 kHz frequency ultrasonic transmission, adjustable time delay, automatic passive infrared adjustment, manual ultrasonic adjustment, 1000 sf of desktop motion coverage, 2000 sf of walking motion coverage, swivel mounting bracket. Complete installation for integration to lighting management system.	Ceiling/Wall
LOC2	Watt Stopper	DSW-100 dual technology wall switch sensor with passive infrared and ultrasonic sensors, adjustable time delay, sensitivity adjustment with high/low settings for passive infrared and full variable control for ultrasonic coverage, 35' x 30' of PIR and 20' x 20' of Ultrasonic major motion coverage, and 20' x 15' of PIR and 15' x 15' of Ultrasonic minor motion coverage.	Switch Box
LOC3	Watt Stopper	LMDC-100 dual technology ceiling mount occupancy sensor with passive infrared and ultrasonic technologies with 360° sensing, 40kHz frequency transmission, adjustable time delay, LCD display and pushbuttons for setting sensor and system parameters, RJ45 receptacles for cable connections, and approximately 1000 sf of motion coverage. Complete installation for integration to lighting management system.	Ceiling
RC1	Watt Stopper	LMRC-101 Series Digital On/Off room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling
RC2	Watt Stopper	LMRC-212 Series Digital On/Off/0-10 Volt dimming dual relay room controller. Plenum-rated construction for mounting above ceiling, RJ45 receptacles for cable connections. Complete installation for integration to lighting management system.	Above Ceiling
RP1	Watt Stopper	LMSW-105 Series 5-Button wall switch. Provide custom engraving for buttons, approve with Architect and Owner before ordering.	Switch Box
RP2	Watt Stopper	LMSW-101 Series 1-Button wall switch. Provide custom engraving for button, approve with Architect and Owner before ordering.	Switch Box
EC	Watt Stopper	ELCU-200 lighting control unit, device wired to allow for automatic control of lighting through occupancy sensor and/or dimming device. U.L. 924 listed for use with emergency lighting, 277V operation and plenum-rated.	Above Ceiling

NOTES:
1. Install occupancy sensors per manufacturer's recommendations.
2. Provide relays, power supplies, and circuitry for complete operation of sensors.
3. Set time delays - 20 minutes for classrooms, 20 minutes for commons, and 15 minutes for all other rooms with occupancy sensors.
4. Provide digital wireless configuration tool equivalent to Watt Stopper LMCT-100 for remote system and device modifications.

LIGHTING CONTROL SEQUENCE SCHEDULE

MARK	DESCRIPTION
1	Single Zone with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located near door.
2	2-Zones with Dimming, Occupancy Sensors 2 separately controlled lighting zones in space controlled by occupancy sensor with manual on/off/dim from pushbutton device located near door. Main paddle button on 5 button keypad will control all light fixtures together on/off/dim. Individual zone control thru small buttons #2-#5. Control of zone #1 On/Raise (hold) with small button #2 on device, control of zone #1 Off/Lower (hold) with button #3 on device. Control of zone #2 On/Raise (hold) with small button #4 on device, control of zone #2 Off/Lower (hold) with button #5 on device.
3	Transition Space with Occupancy Sensor Light fixtures in space controlled by occupancy sensor with manual on/off from pushbutton device located in Mechanical E101.

NOTES:
1. See floor plan for quantity and location of occupancy sensors, room controllers, and keypad devices.

ELECTRICAL EQUIPMENT SCHEDULE

TRANSFORMERS	MARK	KVA	Mounting	Secondary Conductors	GEC
TR7	75	Floor	4#3/0, #6G	#4	

Dry type transformer for indoor installation, U.L. listed, compliant with IEEE, NEMA and ANSI standards, three phase, 60 hertz, 480 volt delta primary 208/120 volt wye secondary, (b) 2-1/2% full capacity taps, 150 degree C temperature rise, ventilated enclosure and internal vibration isolation core mounting. Provide NEC compliant signage for transformers served by remote disconnects.

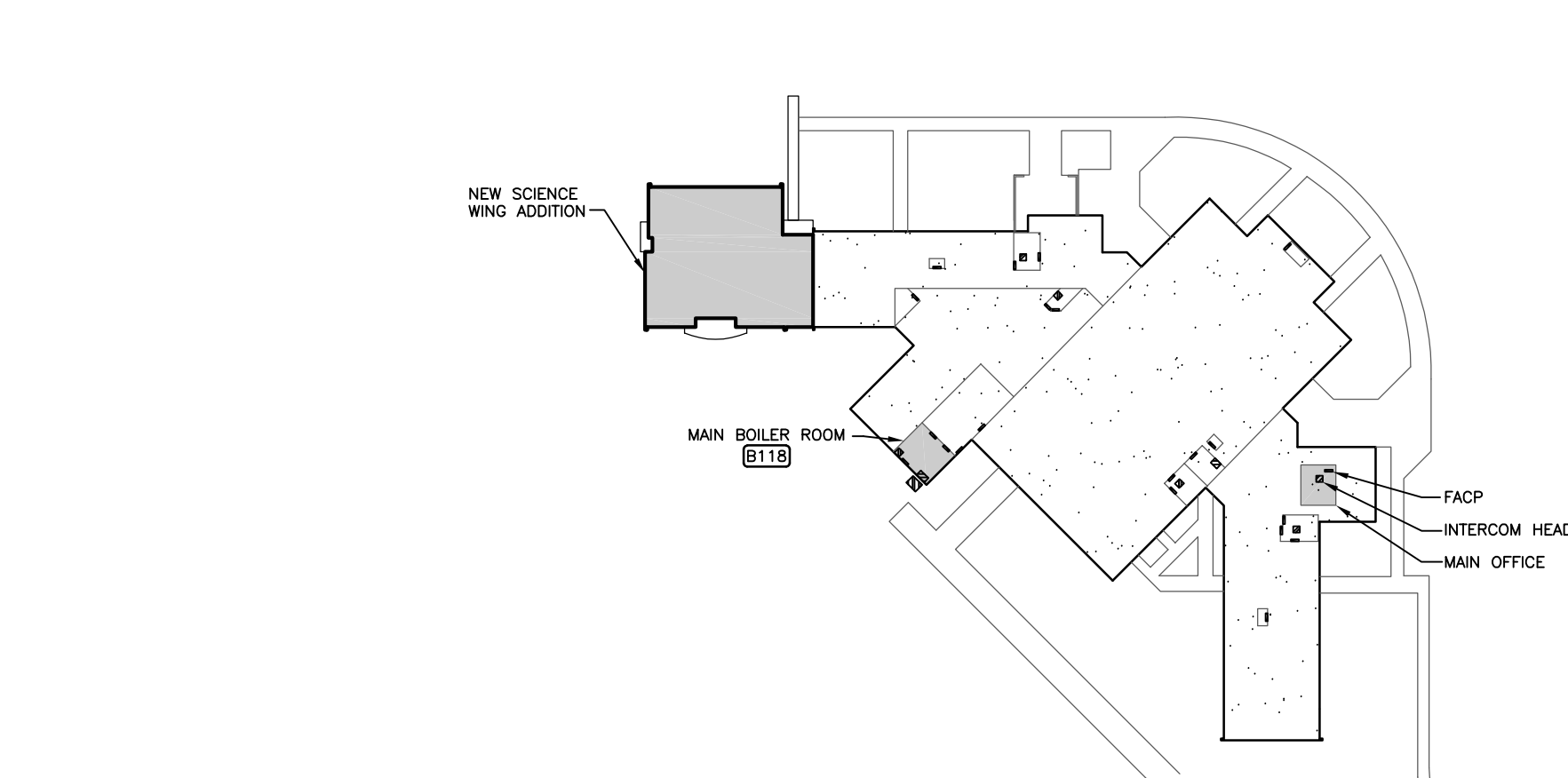
PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'HL5'		MIN A.I.C.: 10000		FEATURES:			
LOCATION: Mechanical E101		MCB Amps: 250	- Panelboard Construction		- Equipment Ground Bus		
VOLTS: 480/277		BUS Amps: 250	- Equal to Square D NF				
CONFIGURATION: 3 Phase/4 Wire		ENCL: NEMA 1					
MOUNTING: Surface							
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B
1	Ltg - E104-E107	2#12, #12G	20/1	2			
3	Ltg - E109-E115	2#12, #12G	20/1	4	Transformer TR7	3#1, #6G	12S
5	Ltg - E100-E101, E103, E108, Ext.	2#12, #12G	20/1	6			
7			15	8			15
9	Blower Coil BC-1	3#12, #12G	3	10	Blower Coil BC-4	3#12, #12G	3
11			25	12			25
13	Condensing Unit CU-1	3#12, #12G	3	14			25
15			15	16	Condensing Unit CU-4	3#12, #12G	3
17			3	18			15
19	Blower Coil BC-2	3#12, #12G	3	20			15
21			3	22	Blower Coil BC-5	3#12, #12G	3
23			20	24			3
25	Condensing Unit CU-2	3#12, #12G	3	26			40
27			15	28	Condensing Unit CU-5	3#8, #10G	3
29			3	30			3
31			15	32	Spare		20/1
33	Blower Coil BC-3	3#12, #12G	3	34	Spare		20/1
35			3	36	Spare		20/1
37			25	38	Spare		20/1
39	Condensing Unit CU-3	3#12, #12G	3	40	Spare		20/1
41			3	42	Spare		20/1
43	Spare		20/1	44	Spare		20/1
45	Spare		20/1	46	Spare		20/1
47	Spare		20/1	48	Spare		20/1
49	Spare		25	50	Spare		20/1
51	Spare		20/1	52	Spare		20/1
53	Spare		20/1	54	Spare		20/1

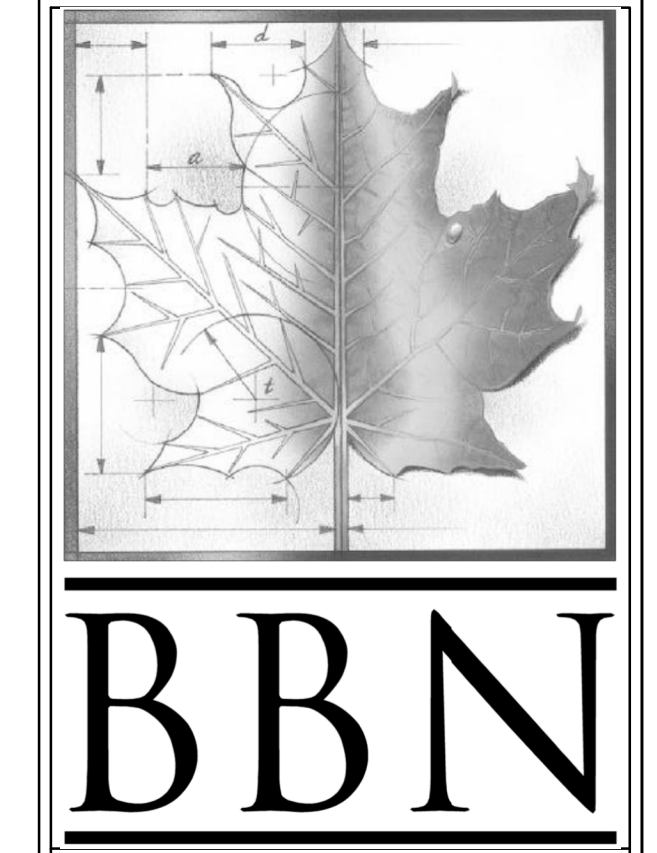
PANELBOARD SCHEDULE

PANEL DESIGNATION: Panel 'LL10'		MIN A.I.C.: 10000		FEATURES:			
LOCATION: MECHANICAL E101		MCB Amps: 200	- Panelboard Construction		- Equipment Ground Bus		
VOLTS: 120/208		BUS Amps: 200	- Equal to Square D NQ				
CONFIGURATION: 3 Phase/4 Wire		ENCL: NEMA 1					
MOUNTING: Surface							
CKT.	Description	Conductors	C/B	CKT.	Description	Conductors	C/B
1	*Rcpt - E106 N Wall	2#12, #12G	20/1	2	*Rcpt - E104 N Wall	2#12, #12G	20/1
3	*Rcpt - E106 N Station	2#12, #12G	20/1	4	*Rcpt - E104 N Station	2#12, #12G	20/1
5	*Rcpt - E106 NW Station	2#12, #12G	20/1	6	*Rcpt - E104 NE Station	2#12, #12G	20/1
7	*Rcpt - E106 W Mid Station	2#12, #12G	20/1	8	*Rcpt - E104 E Mid Station	2#12, #12G	20/1
9	*Rcpt - E106 SW Station	2#12, #12G	20/1	10	*Rcpt - E104 SE Station	2#12, #12G	20/1
11	*Rcpt - E106 SE Station	2#12, #12G	20/1	12	*Rcpt - E104 SW Station	2#12, #12G	20/1
13	*Rcpt - E106 S - E Wall	2#12, #12G	20/1	14	*Rcpt - E104 S - W Wall	2#12, #12G	20/1
15	*Rcpt - E106 Goggle Cabinet	2#12, #12G	20/1	16	*Rcpt - E104 Goggle Cabinet	2#12, #12G	20/1
17	Rcpt - E106 Projector	2#12, #12G	20/1	18	Rcpt - E104 Projector	2#12, #12G	20/1
19	*Rcpt - E107	2#12, #12G	20/1	20	*Rcpt - E105	2#12, #12G	20/1
21	Fume Hood Receptacle	2#12, #12G	20/1	22	Spare		20/1
23	HVAC Controls Cabinet	2#12, #12G	20/1	24	Spare		20/1
25	*Rcpt - E109 W Wall	2#12, #12G	20/1	26	*Rcpt - E113 E Wall	2#12, #12G	20/1
27	*Rcpt - E109 W Station	2#12, #12G	20/1	28	*Rcpt - E113 E Station	2#12, #12G	20/1
29	*Rcpt - E109 SW Station	2#12, #12G	20/1	30	*Rcpt - E113 SE Station	2#12, #12G	20/1
31	*Rcpt - E109 S Mid Station	2#12, #12G	20/1	32	*Rcpt - E113 S Mid Station	2#12, #12G	20/1
33	*Rcpt - E109 SE Station	2#12, #12G	20/1	34	*Rcpt - E113 SW Station	2#12, #12G	20/1
35	*Rcpt - E109 NE Station	2#12, #12G	20/1	36	*Rcpt - E113 NW Station	2#12, #12G	20/1
37	*Rcpt - E109 E - N Wall	2#12, #12G	20/1	38	*Rcpt - E113 W - N Wall	2#12, #12G	20/1
39	Rcpt - E109 Goggle Cabinet	2#12, #12G	20/1	40	Rcpt - E113 Goggle Cabinet	2#12, #12G	20/1
41	Rcpt - E109 Projector	2#12, #12G	20/1	42	Rcpt - E113 Projector	2#12, #12G	20/1
43	*Rcpt - E110	2#12, #12G	20/1	44	*Rcpt - E114	2#12, #12G	20/1
45	*Rcpt - E111	2#12, #12G	20/1	46	*Rcpt - E115	2#12, #12G	20/1
47	Spare		20/1	48	Spare		20/1
49	Spare		20/1	50	Spare		20/1
51	Rcpt - E112 W Wall	2#12, #12G	20/1	52	Rcpt - E100, E101	2#12, #12G	20/1
53	Rcpt - E112 E Wall	2#12, #12G	20/1	54	**E110 Fink Scrubber	2#12, #12G	20/1
55	Rcpt - E112 Projector	2#12, #12G	20/1	56	**E109 Lab Hood Exhaust Fan	2#12, #12G	20/1
57	FA Relay - Door Hold Opens	2#12, #12G	20/1	58	Prep Room Exhaust Fans	2#12, #12G	20/1
59	FA Relay - Dampers, BC Units	2#12, #12G	20/1	60	Sewage Ejector Pump SE	2#10, #10G	30/1
61	FA Expansion Panel	2#12, #12G	20/1	62	*Rcpt - E101 S Wall	2#12, #12G	20/1
63	Spare		20/1	64	Spare		20/1
65	Spare		20/1	66	Spare		20/1
67	Spare		20/1	68	Spare		20/1
69	Spare		20/1	70	Spare		20/1
71	Spare		20/1	72	Spare		20/1

* Provide GFCI protected circuit breaker.
** Provide breaker with lock-out kit.



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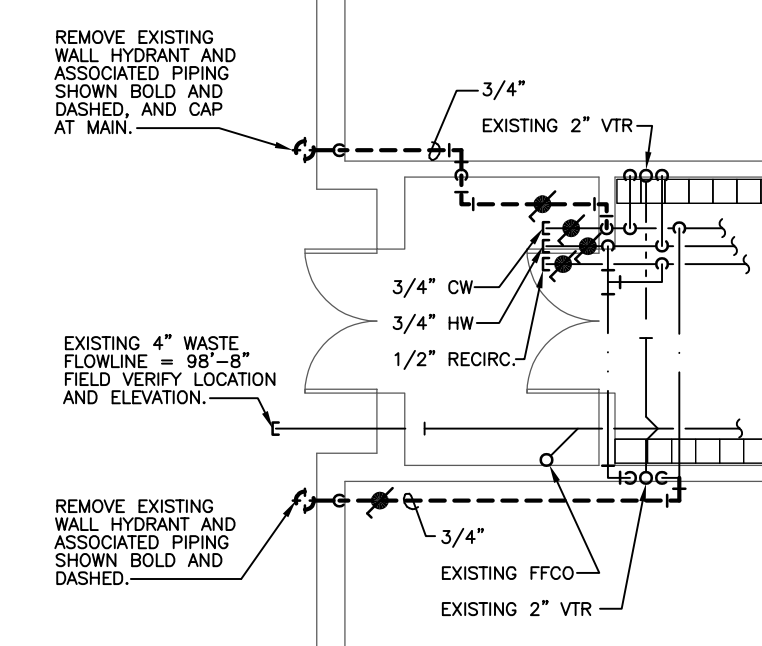
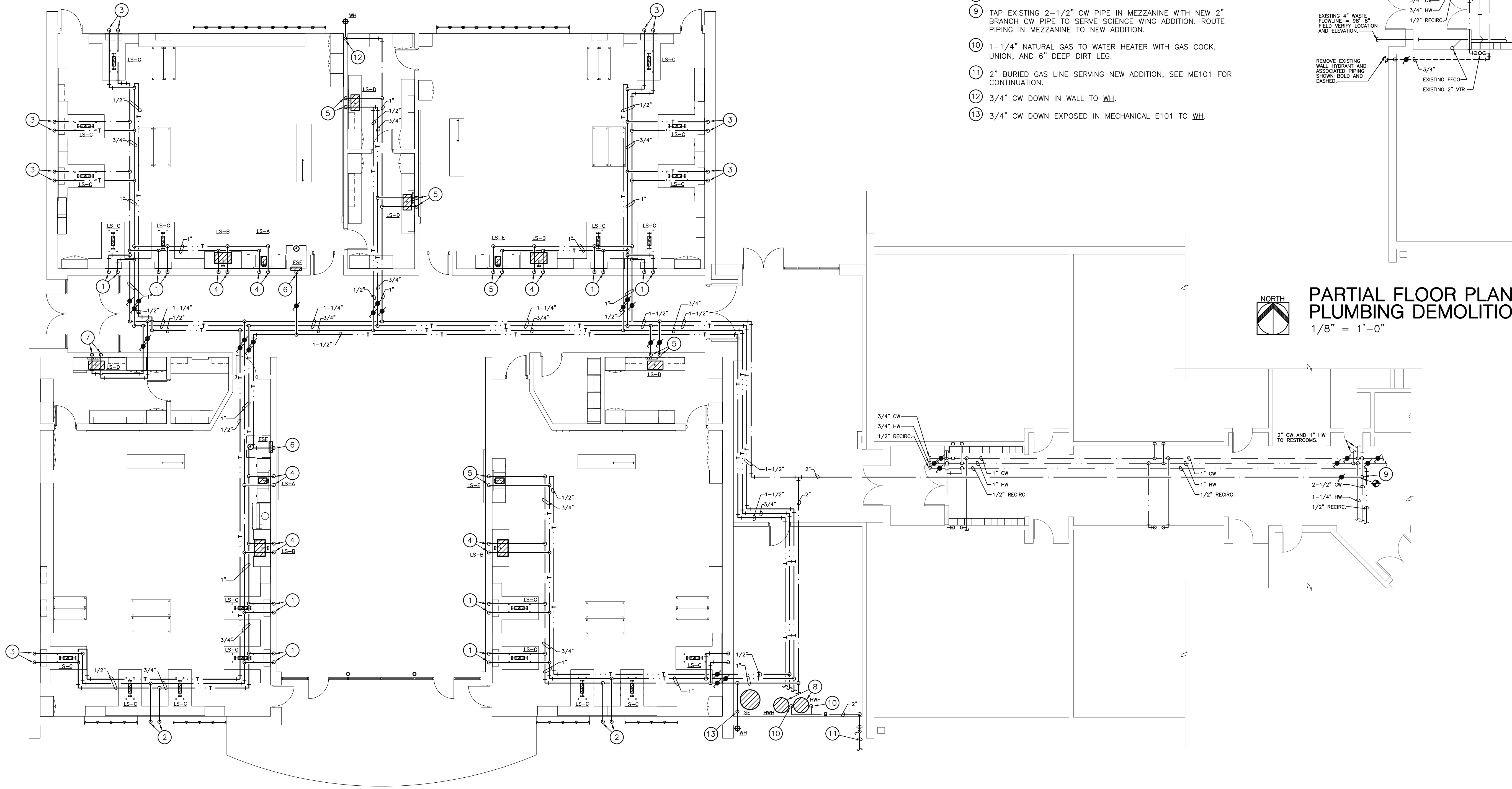
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REVISIONS:

Project Number: 16036
 Date: 11/28/17
 Project Name: USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION
 Project Address: 1701 KAW VALLEY ROAD Wamego, KS 66547
 Sheet Title: ELECTRICAL DETAILS AND SCHEDULES
 Sheet: E201
 Of: 11


NOTES BY SYMBOLS

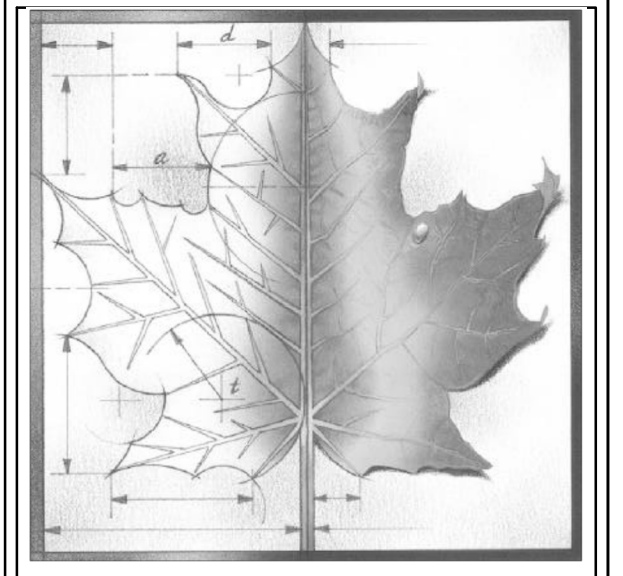
- ① ROUTE 1/2" CW AND 1/2" HW PIPING DOWN IN WALL AND CONCEALED IN CASEWORK TO LS-C. COORDINATE WITH CASEWORK SUPPLIER.
- ② 3/4" CW AND 3/4" HW PIPING DOWN IN WALL ON INTERIOR SIDE OF INSULATION TO ② LS-C. ROUTE 1/2" CW AND 1/2" HW PIPING CONCEALED IN CASEWORK TO EACH LS-C. COORDINATE WITH CASEWORK SUPPLIER. FINAL BRANCH RUNOUTS SHALL BE PEX PIPING WITH 1/2" FIBERGLASS PIPE COVERING TO PROVIDE 25/50 FLAME/SMOKE SPREAD RATING TO MEET ASTM E84.
- ③ 1/2" CW AND 1/2" HW PIPING DOWN IN WALL ON INTERIOR SIDE OF INSULATION. ROUTE PIPING CONCEALED IN CASEWORK TO LS-C. COORDINATE WITH CASEWORK SUPPLIER. FINAL BRANCH RUNOUTS SHALL BE PEX PIPING WITH 1/2" FIBERGLASS PIPE COVERING TO PROVIDE 25/50 FLAME/SMOKE SPREAD RATING TO MEET ASTM E84.
- ④ 1/2" CW AND 1/2" HW DOWN TO LAB SINK.
- ⑤ 3/4" CW AND 3/4" HW DOWN TO LAB SINK WITH EMERGENCY EYEWASH DRENCH HOSE.
- ⑥ 1-1/2" TEMPERED HOT WATER DOWN TO EMERGENCY SHOWER.
- ⑦ 3/4" CW AND 3/4" HW DOWN TO LAB SINK, EMERGENCY EYEWASH DRENCH HOSE, AND UNDERCOUNTER FLASK SCRUBBER.
- ⑧ SEE HOT WATER HEATER DETAIL ON P102 FOR PIPING.
- ⑨ TAP EXISTING 2-1/2" CW PIPE IN MEZZANINE WITH NEW 2" BRANCH CW PIPE TO SERVE SCIENCE WING ADDITION. ROUTE PIPING IN MEZZANINE TO NEW ADDITION.
- ⑩ 1-1/4" NATURAL GAS TO WATER HEATER WITH GAS COCK, UNION, AND 6" DEEP DIRT LEG.
- ⑪ 2" BURIED GAS LINE SERVING NEW ADDITION, SEE ME101 FOR CONTINUATION.
- ⑫ 3/4" CW DOWN IN WALL TO WH.
- ⑬ 3/4" CW DOWN EXPOSED IN MECHANICAL E101 TO WH.



PARTIAL FLOOR PLAN - PLUMBING DEMOLITION
1/8" = 1'-0"

ADDITION FLOOR PLAN - WATER AND GAS
1/8" = 1'-0"

Job No. 15011-1
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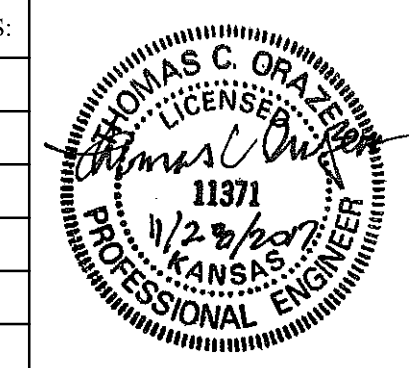


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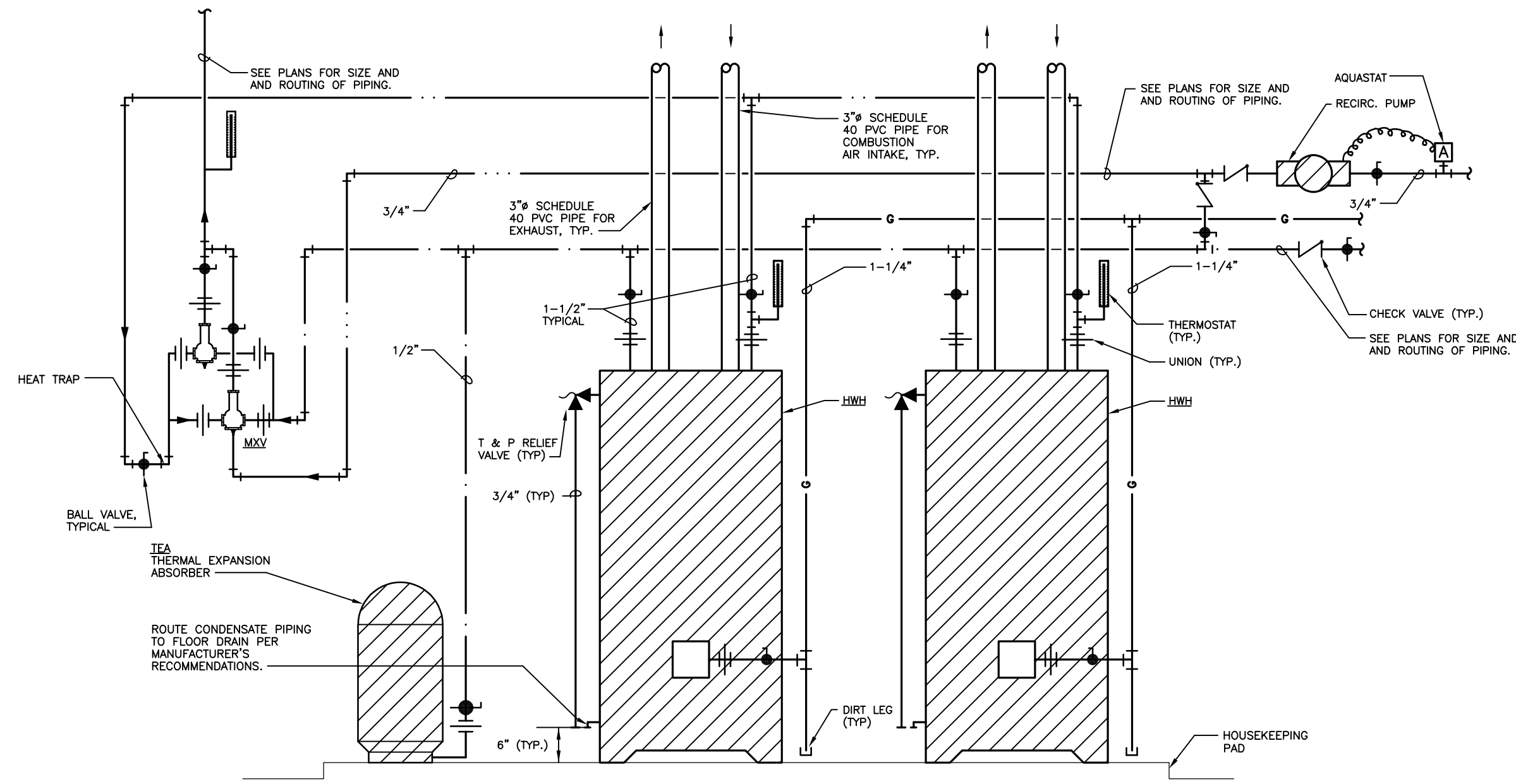
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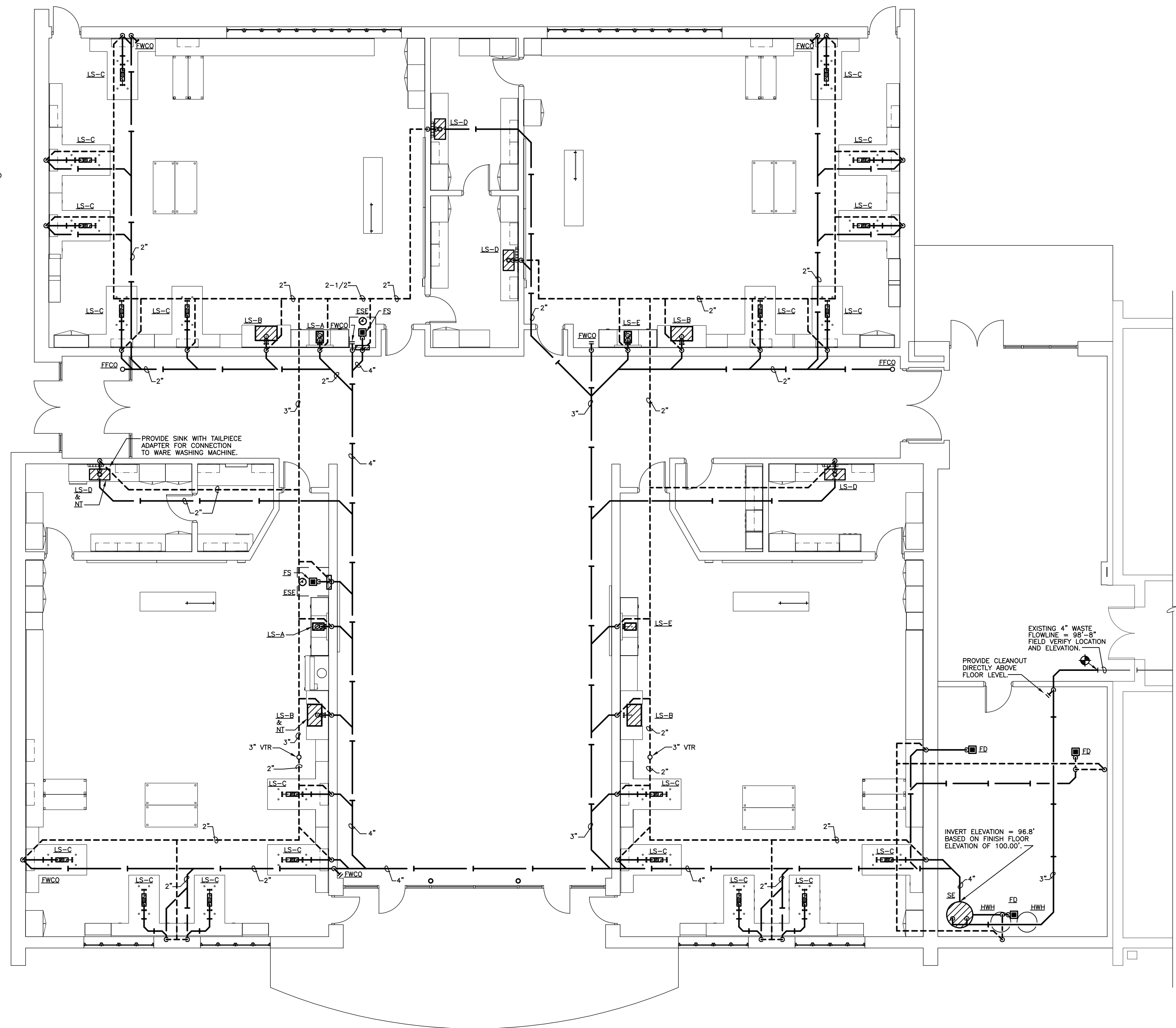
Project Number: **16036**
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 Wamego, KS 66547**

Sheet Title:
PLUMBING PLANS

Sheet:
P101
 Of: **11**



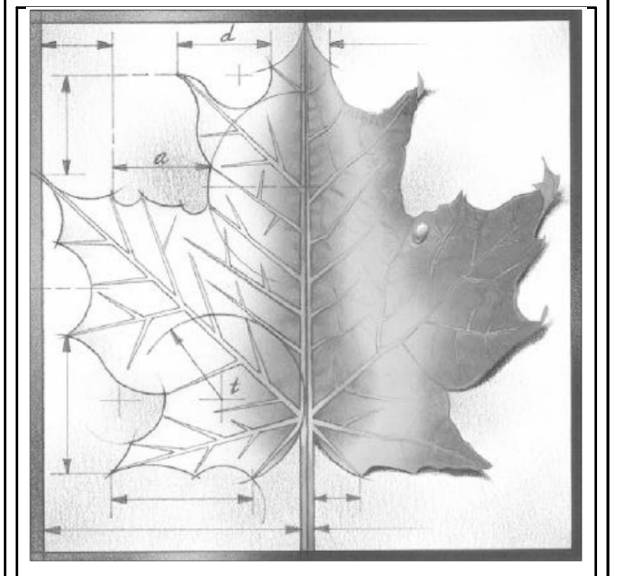
A WATER HEATER DETAIL
NO SCALE



ADDITION FLOOR PLAN - WASTE AND VENT
1/8" = 1'-0"

PLUMBING EQUIPMENT SCHEDULE	
General Notes:	
1. For fixtures marked (ADA), fixture, trim, mounting dimensions and installation shall meet the requirements of the 2010 Americans With Disabilities Act.	
2. Coordinate fixture locations with Architectural plans and elevations prior to rough-in.	
3. All fixtures shall be provided with vandal resistant trim.	
LS-A (ADA)	Lab sink and faucet by others. Provide Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/2" cast brass P-trap with cleanout plug. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi-Lav Guard manufactured by Trubro Inc.
LS-B	Lab sink and faucet by others. Provide Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/2" cast brass P-trap with cleanout plug.
LS-C	Lab sink and faucet by others. Provide Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/2" cast brass P-trap with cleanout plug. Two faucets provided at each sink location.
LS-D	Lab sink and faucet by others. Provide Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/2" cast brass P-trap with cleanout plug. Provide with undercounter mounted tempering valve for deck mounted drench hose, equivalent to Guardian G3600LF tempering valve, 1/2" nominal hot and cold water inlet pipe tap, 1/2" mixed outlet pipe tap. Valve shall be capable of providing 2.7 gpm of tempered water at 10 psi pressure drop. The valve shall be constructed of bronze and non-ferrous materials. The unit shall include a built-in cold water by-pass, solid bimetal thermostat, locking temperature regulator with limit stop factory set for 90 degrees, internal check stops, and dial thermometer.
LS-E (ADA)	Lab sink and faucet by others. Provide Dearborn supplies with stops and escutcheon plate, and Dearborn 1-1/2" cast brass P-trap with cleanout plug. Provide with undercounter mounted tempering valve for deck mounted drench hose, equivalent to Guardian G3600LF tempering valve, 1/2" nominal hot and cold water inlet pipe tap, 1/2" mixed outlet pipe tap. Valve shall be capable of providing 2.7 gpm of tempered water at 10 psi pressure drop. The valve shall be constructed of bronze and non-ferrous materials. The unit shall include a built-in cold water by-pass, solid bimetal thermostat, locking temperature regulator with limit stop factory set for 90 degrees, internal check stops, and dial thermometer. Insulate water and waste piping below sink with manufactured piping covers consisting of flexible vinyl insulation with white finish and access to piping, equivalent to Handi-Lav Guard manufactured by Trubro Inc.
NT	Striem model LB-2 neutralization tank with 2 gallon capacity, 4-1/2" gasketed top access port with captive hand-thread hardware, 2" pipe inlet and outlet, and built-in sewer gas trap. Unit molded from high density polyethylene with 1/4" uniform wall thickness, and 25 lb limestone capacity. See plans for installation location. Provide complete with fully supported base. Install in a manner that unit remains serviceable.
WH-A	Wade W-8600 non-freeze wall hydrant, cast bronze with satin bronze face, 3/4" inlet and brass casing of sufficient length to extend through walls as required to place valve inside building. Valve rod and seat washer shall be removable through the face of the hydrant. Hydrant shall be furnished complete with detachable T-handle and integral vacuum breaker.
ES	Floor sink - Wade 9140 12" square, 8" deep, cast iron with smooth porcelain acid resisting interior, double drainage flange, bottom outlet, acid resisting nickel brass grate with openings as required for indirect drains, and sediment bucket. Omit grate where not required. Use acid resistant porcelain coated cast iron where not subjected to foot traffic. Provide with ProSet Systems trap guard T25630-F. Floor sink installed in recessed floor slab, see Architectural plans.
FWCO	Wade 8560-E cleanout tee with brass threaded plug and 8480-R round stainless steel coverplate secured to plug by countersunk screw.
FFCO	Finished floor cleanout, Wade 6000-Z-1 cast iron finished floor cleanout with spigot outlet, threaded adjustable housing, flanged ferrule with bronze threaded plug and vandal proof round secured nickel bronze scoriated top.
HWH	A.O. Smith BTH-199 gas fired direct vent water heater, 100 gallon storage, 199 MBH natural gas input, 261 gallon per hour recovery at 90 degrees F rise.
SE	Vertical centrifugal sewage ejector pump, Weil series 2100, model 2103, duplex arrangement, 30 gpm @ 20 feet head (each pump), 2 drip-proof motors, 1/2 hp, 120 volt/1 phase, 1150 rpm, 36 in. dia. x 60 in. deep fiberglass basin. Provide pump with cover panel, automatic alternator, capacity doubler, float switches, high water alarm, basin cover and 3" NPT threaded discharge elbow & check valves.
MXV	Leonard #TM-520B-LF-DT-IT high-low thermostatic water mixing valve assembly for exposed piping with Type TM Thermostatic Water Mixing Valve with solid bimetal thermostat directly linked to valve porting, adjustable limit stops, color coded scale, outlet volume control/shutoff, dial thermometer (range: 0 degrees F to 140 degrees F), and rough bronze finish.
TV	Emergency mixing valve Haws 9202E with factory set point of 85 deg. F, 60-90 deg. F outlet temperature adjustment range, 1 gpm minimum flow rate, 45 gpm flow rate at 10 PSI pressure drop, cold water bypass upon failure of hot water, hot water shutdown upon failure of cold water, paraffin filled thermostat, inlet check stops, 1-1/4" inlets, 1-1/4" outlet.
HWP	Hot water circulation pump, Taco #005-BF, in-line, 4GPM @ 9 ft. head, 1/35 HP, bronze body, 3250 RPM, 120 volt, 1 phase, 3/4" flanges. Provide bronze companion flanges and aquastat control.
TEA	Thermal Expansion Absorber, Amtral ST-30V-C precharged hydropneumatic steel expansion tank with internal butyl diaphragm. 14.0 gallons total volume, 8.9 gal minimum expansion volume, 150 psig maximum working pressure.
ESE (ADA)	Guardian GBF2150 recessed barrier-free eye/face wash and shower safety station with ceiling mounted exposed shower head, stainless steel bar actuator with brass stay-open ball valve, pulldown eye/face wash to automatically open valve for operation. Furnished with ANSI-compliant identification sign.
FD	Floor drain for mechanical rooms - Wade 2350-27 cast iron with bottom outlet, 8" square top, square loose set grate, and removable sediment bucket. Provide with ProSet Systems trap guard T25630-F.

PLUMBING FIXTURE MINIMUM ROUGH-IN SIZE SCHEDULE				
FIXTURE/DESIGNATION	WASTE	VENT	COLD WTR.	TEMP. HOT WTR.
LAB SINK/LS-A,B,C	2"	2"	1/2"	1/2"
LAB SINK WITH EYEWASH/LS-D,E	2"	2"	3/4"	3/4"
EMERGENCY SHOWER/ESE	2"	2"	---	1-1/2"
WALL HYDRANT/WH-A	---	---	3/4"	---
FLOOR SINK/FS	4"	2"	---	---
FLOOR DRAIN/FD	2"	2"	---	---

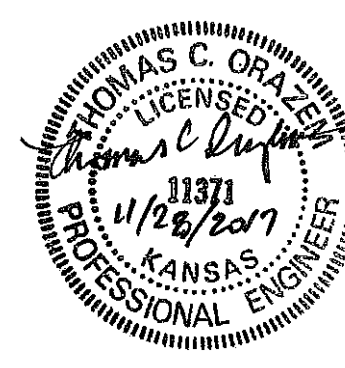


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REVISIONS:	
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Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD Wamego, KS 66547

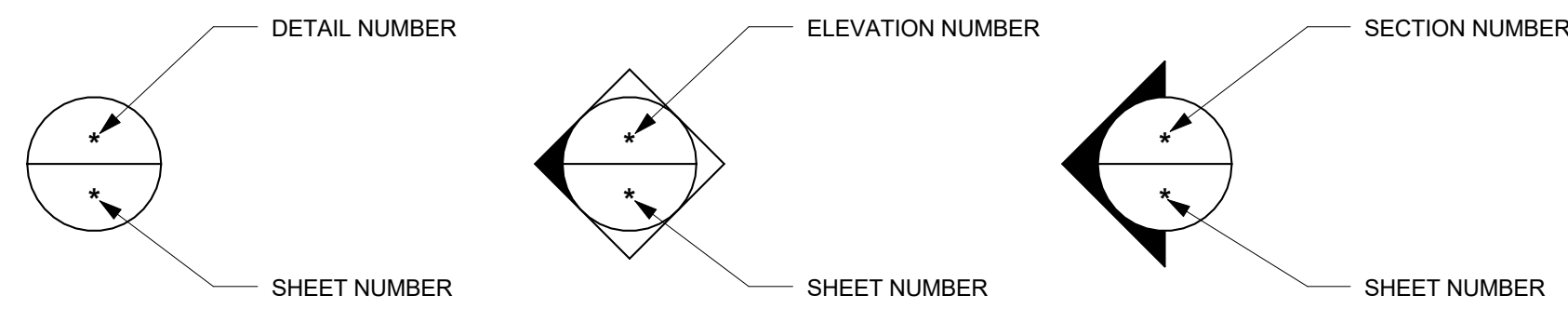
Sheet Title:
PLUMBING PLANS

Sheet:
P102
Of: **11**

GENERAL NOTES

- ALL WALL BENCHTOPS AND MOVABLE TABLES SHALL BE 30" DEEP INCLUDING WALL BENCH BACK SPLASH (UNLESS OTHERWISE NOTED).
- ALL ISLAND BENCHTOPS SHALL BE 60" DEEP (UNLESS OTHERWISE NOTED).
- ALL BENCHES AND TABLES SHALL BE 36" HIGH (UNLESS OTHERWISE NOTED).
- ALL BENCH/TABLE TOPS TO BE 1" THICK FORMED GRAINLESS STEEL (UNLESS OTHERWISE NOTED).
- ALL BACK AND SIDE SPLASHES TO BE 1" THICK AND 4 3/4" HIGH (UNLESS OTHERWISE NOTED), PIPEDROP CURBS TO BE 1" THICK AND 5" HIGH (UNLESS OTHERWISE NOTED).
- PROVIDE SIDESPLASHES AT ALL BENCH TOPS AGAINST FUME HOODS AND/OR ADJACENT WALLS.
- OVERALL LENGTH OF BENCHTOPS SHALL BE DETERMINED BY CASEWORK SIZES AND DIMENSIONS AS INDICATED ON PLANS. TOPS SHALL OVERHANG 1/2" AT EACH END AND 1" FROM FRONT OF BASE CABINETS AND TABLES. WHEN OVERALL DIMENSIONS ARE GIVEN, 1/2" OVERHANG IS NOT INCLUDED.
- ALL CASEWORK, FUME HOODS AND ANY OTHER FURNISHINGS WITH EXPOSED-TO-VIEW BACKS AND SIDES SHALL BE FINISHED.
- INSTALL CLOSURE PANELS BETWEEN BACK OF CABINETS OR HOODS AND WALLS AT EXPOSED ENDS AND BETWEEN BASE CABINETS AND/OR HOODS THAT ARE SET BACK TO BACK.
- ALL PENETRATIONS THROUGH BENCHTOP SHALL BE SEALED WITH SEALANT.
- BACKS OF COUNTERTOPS AND SPLASHES AGAINST WALLS SHALL BE SEALED TO THE WALL WITH SEALANT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.
- OWNER'S REPRESENTATIVE WILL SELECT COLORS FOR ALL COMPONENTS OF PROJECT INDICATED ON THESE DRAWINGS. COLOR SELECTION WILL BE FROM THE CASEWORK MANUFACTURER'S STANDARD COLOR LINE.
- FREE STANDING SHELVING AND CASEWORK LESS THAN 18" DEEP SHALL BE SECURED TO PREVENT TIPPING. SUBMIT SHOP DRAWINGS OF ATTACHMENT PRIOR TO INSTALLATION.
- SAFETY SHOWER/EYEWASH UNITS SHALL COMPLY WITH ANSI STANDARDS FOR USABILITY BY THE PHYSICALLY DISABLED. SAFETY SHOWER/EYEWASH UNITS SHALL BE FURNISHED UNDER DIVISION 11 FOR INSTALLATION UNDER DIVISION 22.
- FOR LABORATORY SERVICE FITTING TYPES, LOCATIONS AND ORDER, SEE LABORATORY FURNISHINGS PLANS. THESE FITTINGS SHALL BE PROVIDED UNDER DIVISION 11 OR DIVISION 22, FOR INSTALLATION UNDER DIVISION 22.
- LOCATION OF EQUIPMENT, SUCH AS FUME HOODS, OVERHEAD SERVICE CARRIERS, BRACES OR ANY OTHER ITEMS THAT MAY INTERFERE WITH LIGHTING, STRUCTURAL OR MECHANICAL SYSTEMS, SHALL BE CAREFULLY COORDINATED. NOTIFY OWNER'S REPRESENTATIVE OF DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
- UNLESS OTHERWISE NOTED, ALL MISCELLANEOUS CHANNELS, BRACKETS AND FITTINGS INDICATED ON ALL LABORATORY FURNISHINGS DRAWINGS SHALL BE SUPPLIED, INSTALLED AND PAINTED UNDER DIVISION 12.
- CONTRACTOR SHALL EXAMINE ALL LABORATORY FURNISHINGS PLANS AND COORDINATE WITH REFLECTED CEILING PLANS FOR PROPER CEILING HEIGHTS & PIPE DROP ENCLOSURE HEIGHTS AND LOCATIONS.
- OVERHEAD SERVICE CARRIERS, HEAVY DUTY UNISTRUT AND OTHER STRUCTURALLY ANCHORED AND SUSPENDED DEVICES WHICH REQUIRE COORDINATION WITH OTHER TRADES SHALL BE THE RESPONSIBILITY OF THIS DIVISION (UNLESS OTHERWISE NOTED). ADDITIONAL FRAMING MAY BE REQUIRED TO ACCOMMODATE ANCHORAGE AROUND DUCTWORK OR OTHER OBSTRUCTIONS.
- SERVICE FITTINGS SHOWN ON THE "LF" PLAN DRAWINGS ARE FOR LOCATION ONLY. REFER TO DETAILS AND SPECIFICATIONS FOR ACTUAL FITTINGS.
- ELECTRICAL DEVICES SHALL BE PROVIDED UNDER DIVISION 26. ELECTRICAL DEVICES SHOWN ON THE "LF" DRAWINGS ARE FOR THE LOCATION OF CASEWORK CUTOUPS. DEVICES SHOWN AT CONTROLLED ENVIRONMENTAL ROOMS, FUME HOODS AND LAMINAR FLOW HOODS SHALL BE PROVIDED BY THE EQUIPMENT SUPPLIER.
- ALL WALL MOUNTED RACEWAYS SHALL BE MOUNTED 43" A.F.F. TO THE BOTTOM OF THE RACEWAY U.O.N.

DETAIL SYMBOLS LEGEND



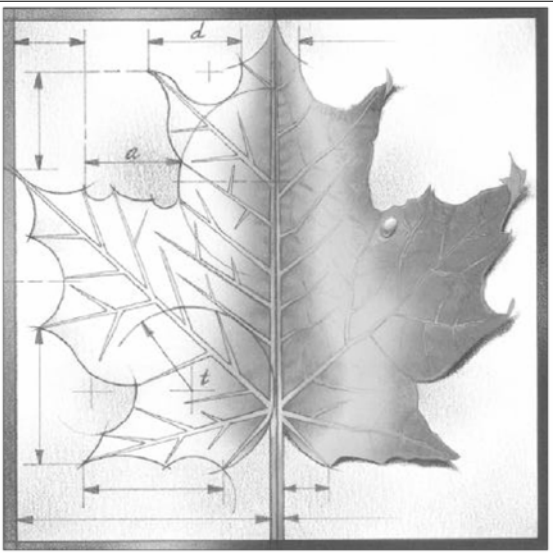
LABORATORY SYMBOLS LEGEND

SYMBOL LEGEND	DESCRIPTION
	PIPE DROP ENCLOSURE 4 LF4.01 5 LF4.01 6 LF4.01
	DRYING RACK - ACRYLIC 7 LF4.01
	SAFETY SHOWER WITH EYEWASH UNIT 6 LF1.02
	ADJUSTABLE WALL SHELVES (2 TIER U.O.N.)
	MARKER BOARD (SEE ARCHITECTURAL DOCUMENTS, FOR COORDINATION ONLY)
	PROJECTION SCREEN (SEE ARCHITECTURAL DOCUMENTS, FOR COORDINATION ONLY)
	ROD SOCKETS WITH UPRIGHT ROD ASSEMBLY
	CHEMICAL FUME HOOD. SEE MECHANICAL.
	DISHWASHER
	FABRIC WRAPPED TACK BOARD.(SEE ARCHITECTURAL, FOR COORDINATION ONLY)
	MOVEABLE LABORATORY TABLE 4 LF1.03
	TALL STORAGE CABINET. SEE CASEWORK MENU
	WALL CABINET - SEE CASEWORK MENU
	LAMINAR FLOW HOOD
	LINEAR FLOOR DRAIN (SHOWN FOR COORDINATION ONLY)
	OWNER FURNISHED, OWNER INSTALLED EQUIPMENT
	STAINLESS STEEL SINK - SEE SINK SCHEDULE LF002
	FLOOR DRAIN BASIN (SHOWN FOR COORDINATION ONLY)

TYPICAL ABBREVIATIONS

(NOTE: NOT ALL ABBREVIATIONS SHOWN ARE USED. REFER TO FLOOR PLANS FOR ACTUAL ABBREVIATION TYPES.)

- | | |
|--|--|
| ADA
A.F.F.
ARCH
CFCI
CFM
CENT
CLG.
CL.R.
DIA
DIV.
EQUIP
FZR
GA.
G.C.
H.D.
INC
MAX.
MIN.
MTD.
N.T.S.
O.C.
OFOI
OFCI
O.H.
OHSC
PH
REF
SIM.
SPEC
ST.STL.
TEMP
TYP.
UC
U.O.N.
WP | AMERICANS WITH DISABILITIES ACT
ABOVE FINISHED FLOOR
ARCHITECTURAL DOCUMENTS
CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CUBIC FEET/MINUTE
CENTRIFUGE
CEILING
CLEARANCE
DIAMETER
DIVISION
EQUIPMENT
FREEZER
GAUGE
GENERAL CONTRACTOR
HEAVY DUTY
INCUBATOR
MAXIMUM
MINIMUM
MOUNTED
NOT TO SCALE
ON CENTER
OWNER FURNISHED, OWNER INSTALLED
OWNER FURNISHED, CONTRACTOR INSTALLED
OVERHEAD
OVERHEAD SERVICE CARRIER
PHASE
REFRIGERATOR
SIMILAR
SPECIFICATIONS
STAINLESS STEEL
TEMPERATURE
TYPICAL
UNDER COUNTER
UNLESS OTHERWISE NOTED
WEATHERPROOF |
|--|--|



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Project Number: **16036**

Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
**1701 KAW VALLEY ROAD
WAMEGO, KS 66547**

Sheet Title:
LAB CASEWORK NOTES

Sheet:
LF 1.01

Of:

EXHAUST EQUIPMENT SCHEDULES

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CHEMICAL FUME HOODS

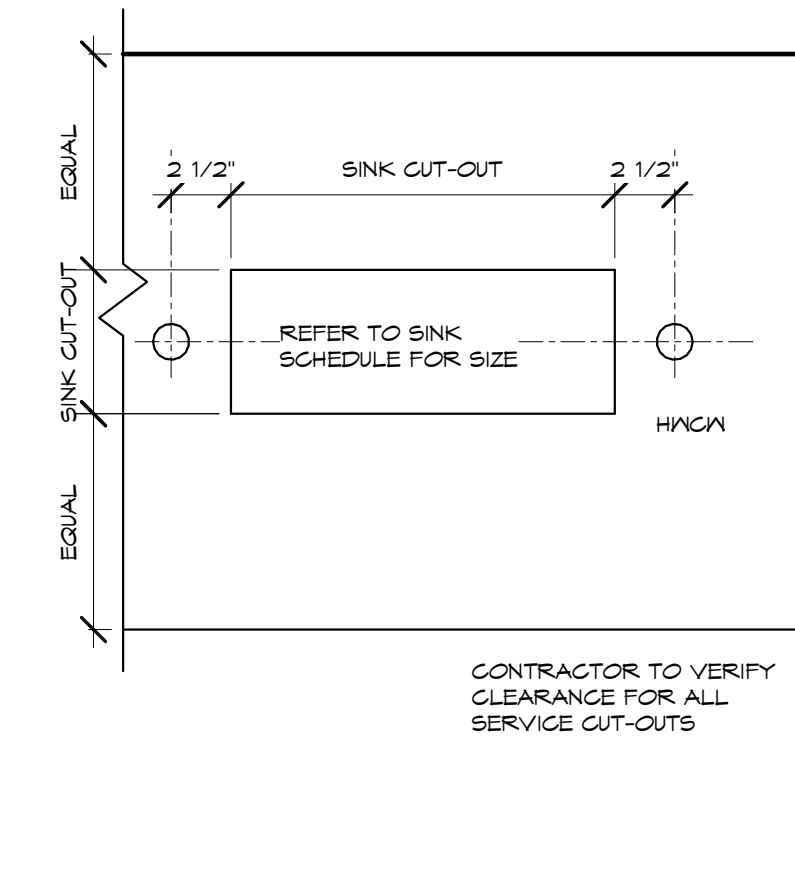
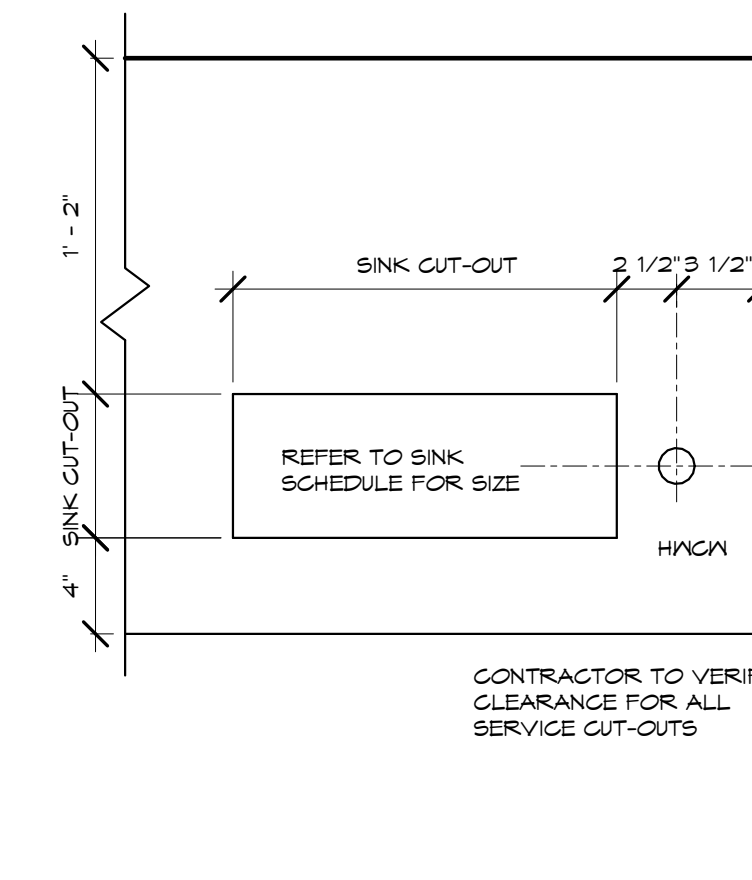
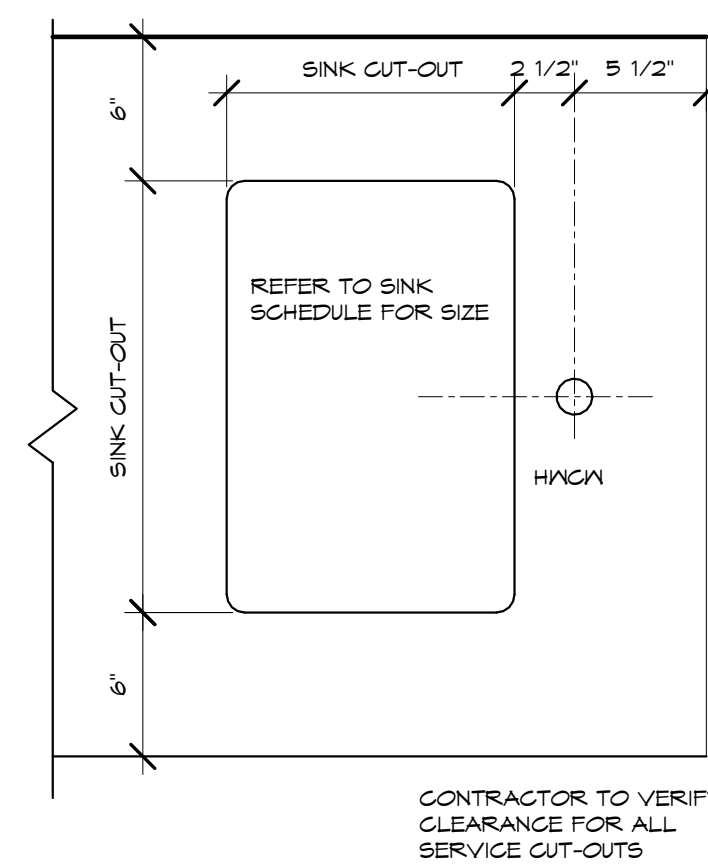
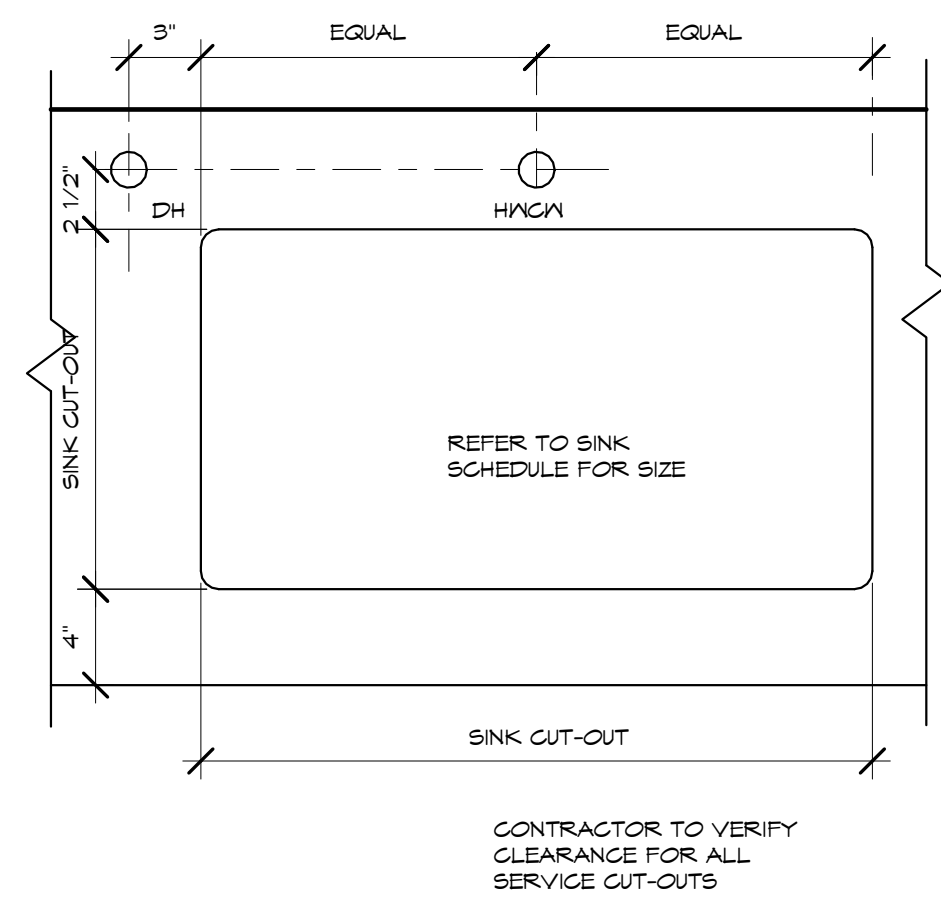
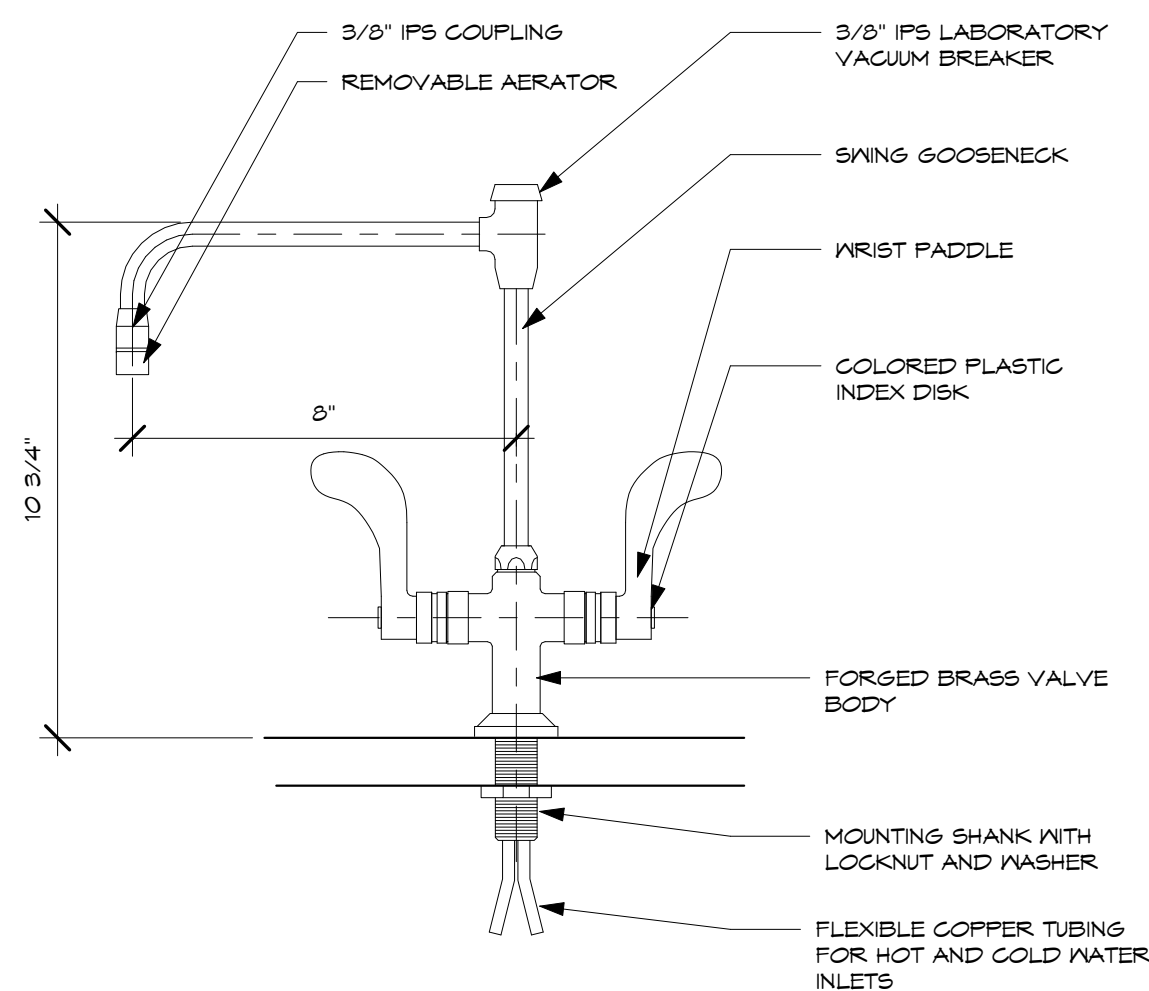
DRAWING REFERENCE	HOOD SIZE AND TYPE	TYPE OF SASH	TYPE OF SILL	NUMBER OF VERTICAL SASHES	REMARKS
4' CFH	4' CHEMICAL FUME HOOD	VERTICAL	AIRFOIL	1	SEE MECHANICAL PLANS AND SPECIFICATION FOR REQUIREMENTS

LABORATORY SERVICE FITTING SCHEDULE

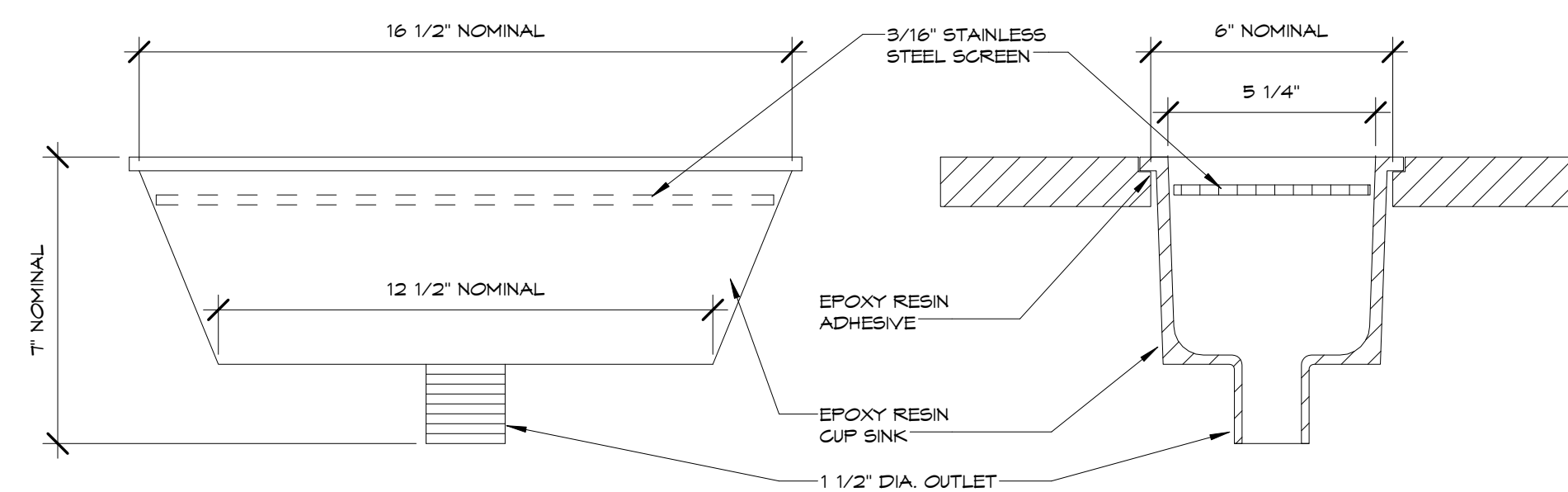
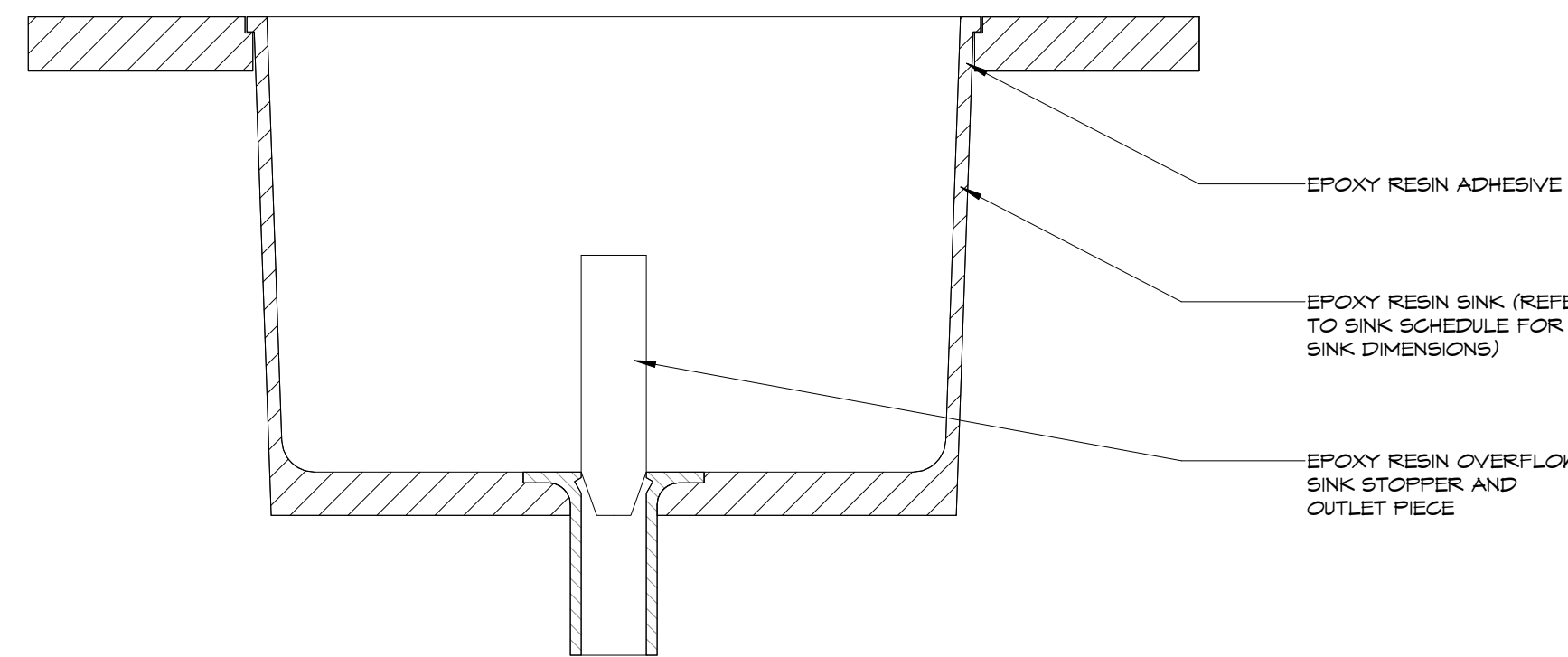
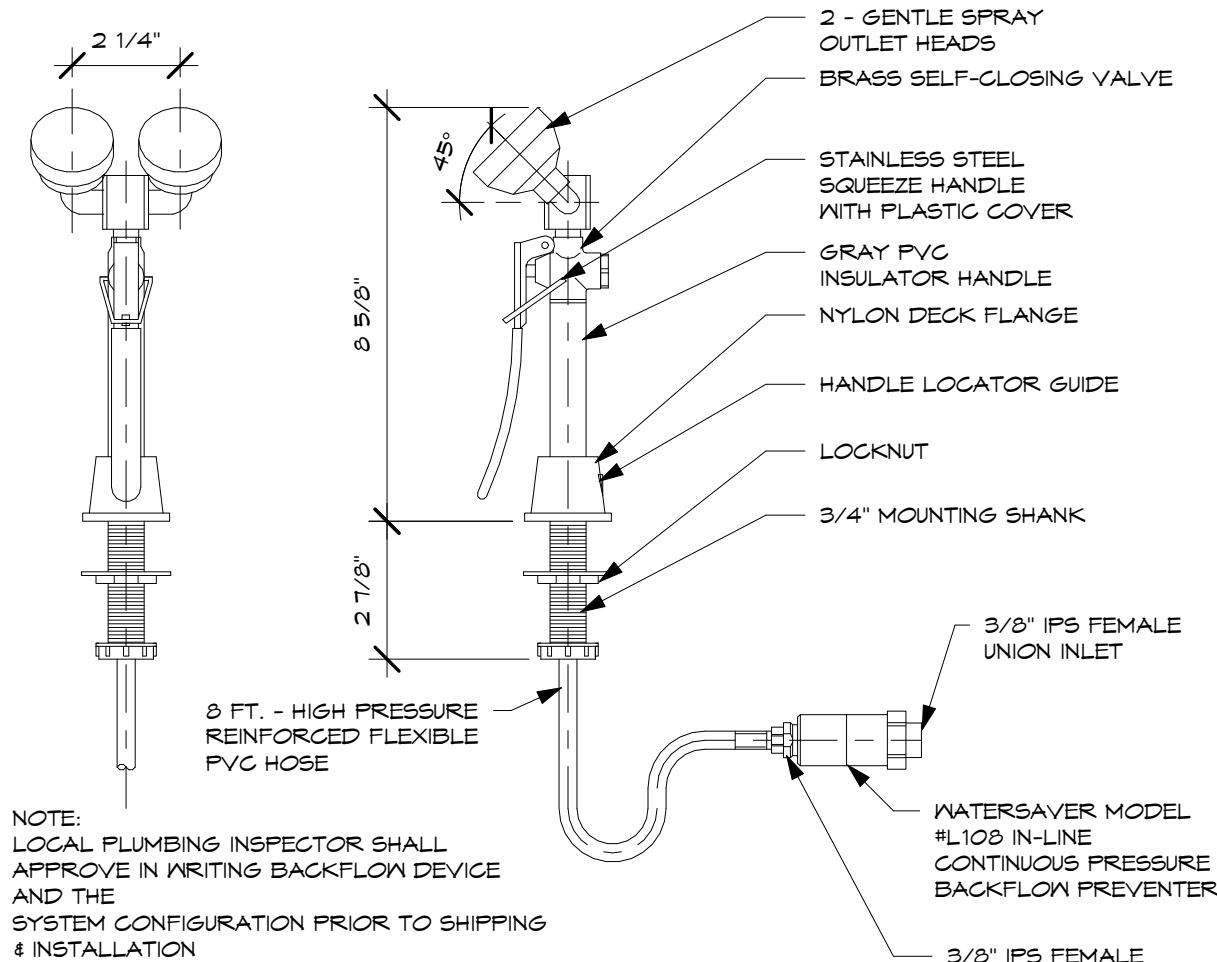
LABORATORY SINK SCHEDULE

ABBREV.	FITTING TYPE	MOUNTING	NOTES	DETAIL	SINK NUMBER	DESCRIPTION	OUTLET	WIDTH x DEPTH x HEIGHT (INSIDE DIMENSIONS)	REMARKS	DETAIL
HWCW	POTABLE HOT WATER / POTABLE COLD WATER	DECK	AT LABORATORY SINK	1 LF1.02	SK1	EPOXY RESIN	SIDE	28" X 15" X 12" D	DROP-IN	7 LF1.02
SS/ EW	SAFETY SHOWER / EYEWASH UNIT	WALL (RECESSED)	PULL-DOWN EYEWASH	9 LF4.01	SK2	EPOXY RESIN	SIDE	15" X 18" X 11"D	DROP-IN	7 LF1.02
DH	DRENCH HOSE	DECK	AT ADA LABORATORY WASH-UP SINK	6 LF1.02						
					CS1	EPOXY RESIN	CENTER	6" X 14"	RECTANGULAR	8 LF1.02
					CS2	EPOXY RESIN	CENTER	6" X 18"	RECTANGULAR	8 LF1.02

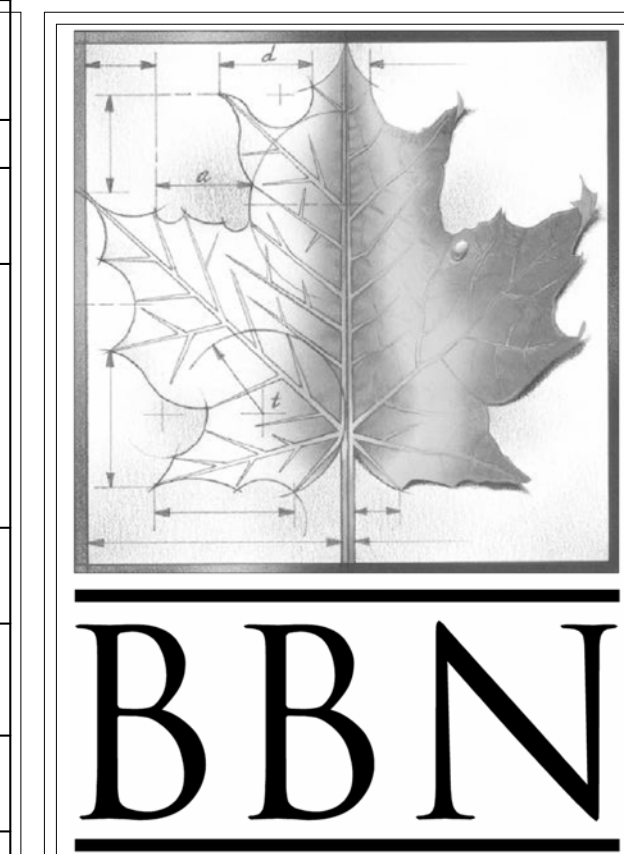
FOR FIXTURE SPACING REFER TO: 8
LF403



1 HWGN-DECK 3" = 1'-0" 2 FIXTURE SPACING AT SINK SK1 1 1/2" = 1'-0" 3 FIXTURE SPACING AT SINK SK2 1 1/2" = 1'-0" 4 FIXTURE SPACING AT CUP SINK CS1 1 1/2" = 1'-0" 5 FIXTURE SPACING AT CUP SINK CS2 1 1/2" = 1'-0"



6 DH - DECK 3" = 1'-0" 7 EPOXY RESIN DROP-IN SINK 3" = 1'-0" 8 RECTANGULAR CUP SINK 3" = 1'-0"



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Project Number: 16036
Date: 11/28/17

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION
Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:
LAB FURNISHING NOTES AND SCHEDULES

Sheet:
LF 1.02

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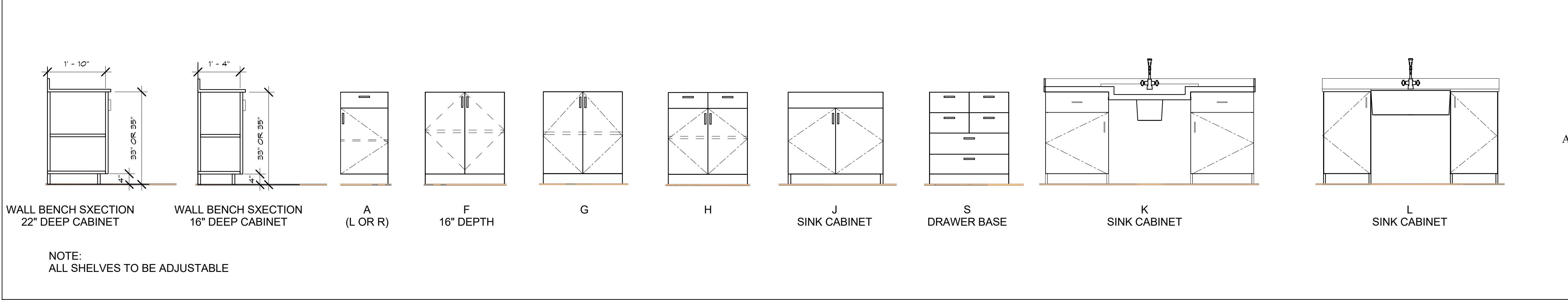
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- BASE CABINET TYPE
- CABINET DEPTH (INCHES - TYPICAL)
- WIDTH (INCHES - TYPICAL)
- D22-24
- BASE CABINET TYPE
- CABINET DEPTH (INCHES - TYPICAL)
- WIDTH (INCHES - TYPICAL)
- DOOR HINGE ON LEFT SIDE
- A22-24L
- BASE CABINET TYPE
- CABINET DEPTH (INCHES - TYPICAL)
- WIDTH (INCHES - TYPICAL)
- DOOR HINGE ON RIGHT SIDE
- A22-24R
- KNEE OPENING
- WIDTH (INCHES - TYPICAL)
- KO24
- MOVEABLE TABLE
- WIDTH (NOTE: 30" DEPTH ASSUMED ON GENERAL NOTES)
- MT60

- TALL STORAGE CABINET
- WIDTH (INCHES - TYPICAL)
- TC36
- TALL WARDROBE CABINET
- WIDTH (INCHES - TYPICAL)
- TW36
- TALL OPEN CABINET
- WIDTH (INCHES - TYPICAL)
- TO36
- FP FILLER PANEL
- * DESIGNATES KEY LOCKABLE CASEWORK

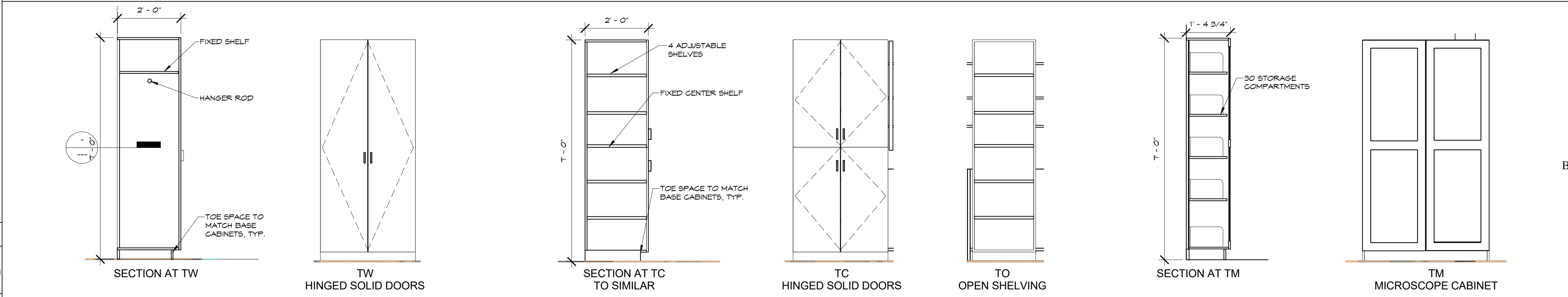
1 FOR CABINET BACKING HEIGHTS REFER TO: **1 Lf401**

2 FOR SHELVING BACKING HEIGHTS REFER TO: **1 Lf401**

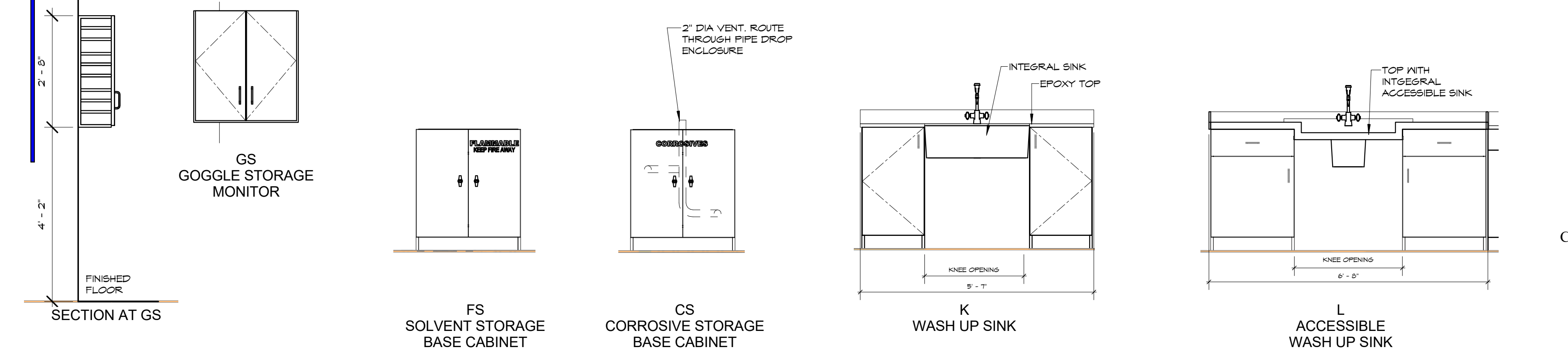
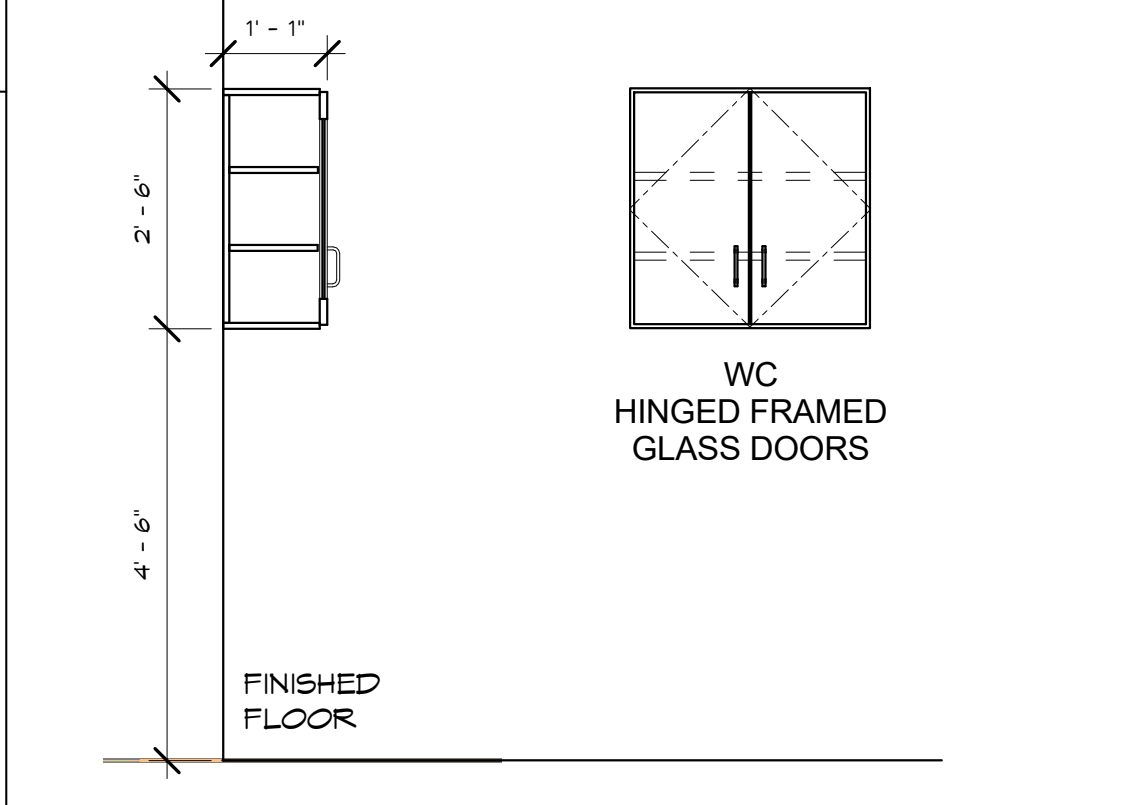
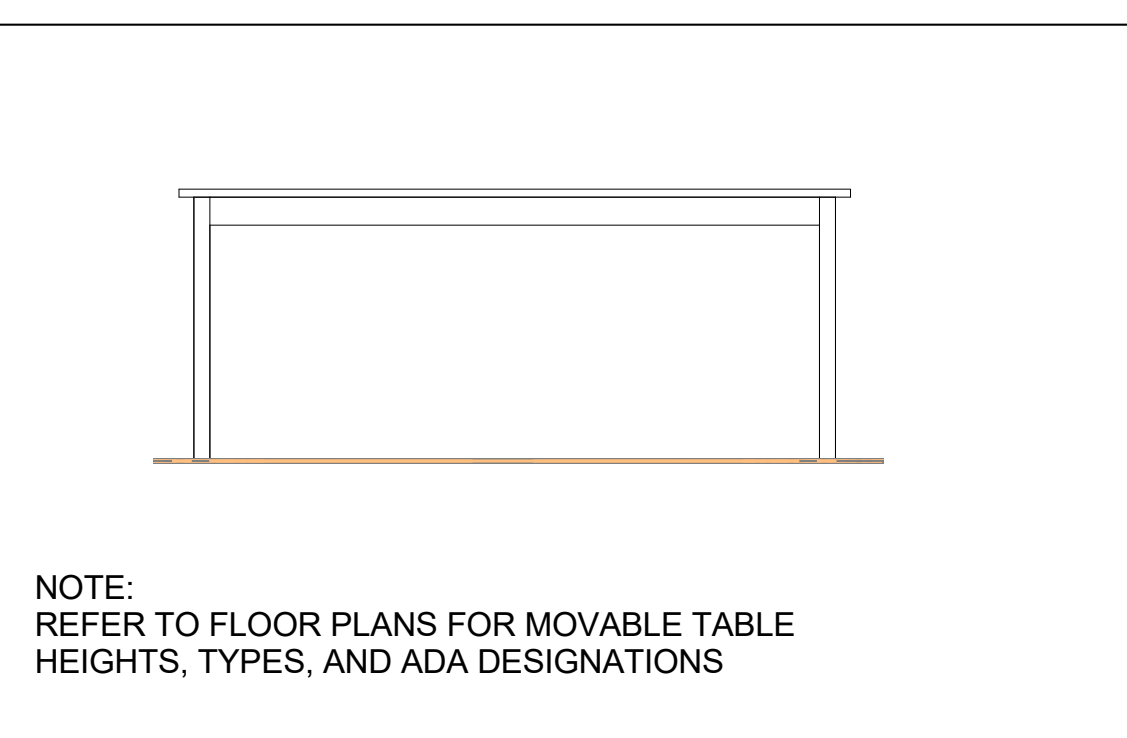


NOTE:
ALL SHELVES TO BE ADJUSTABLE

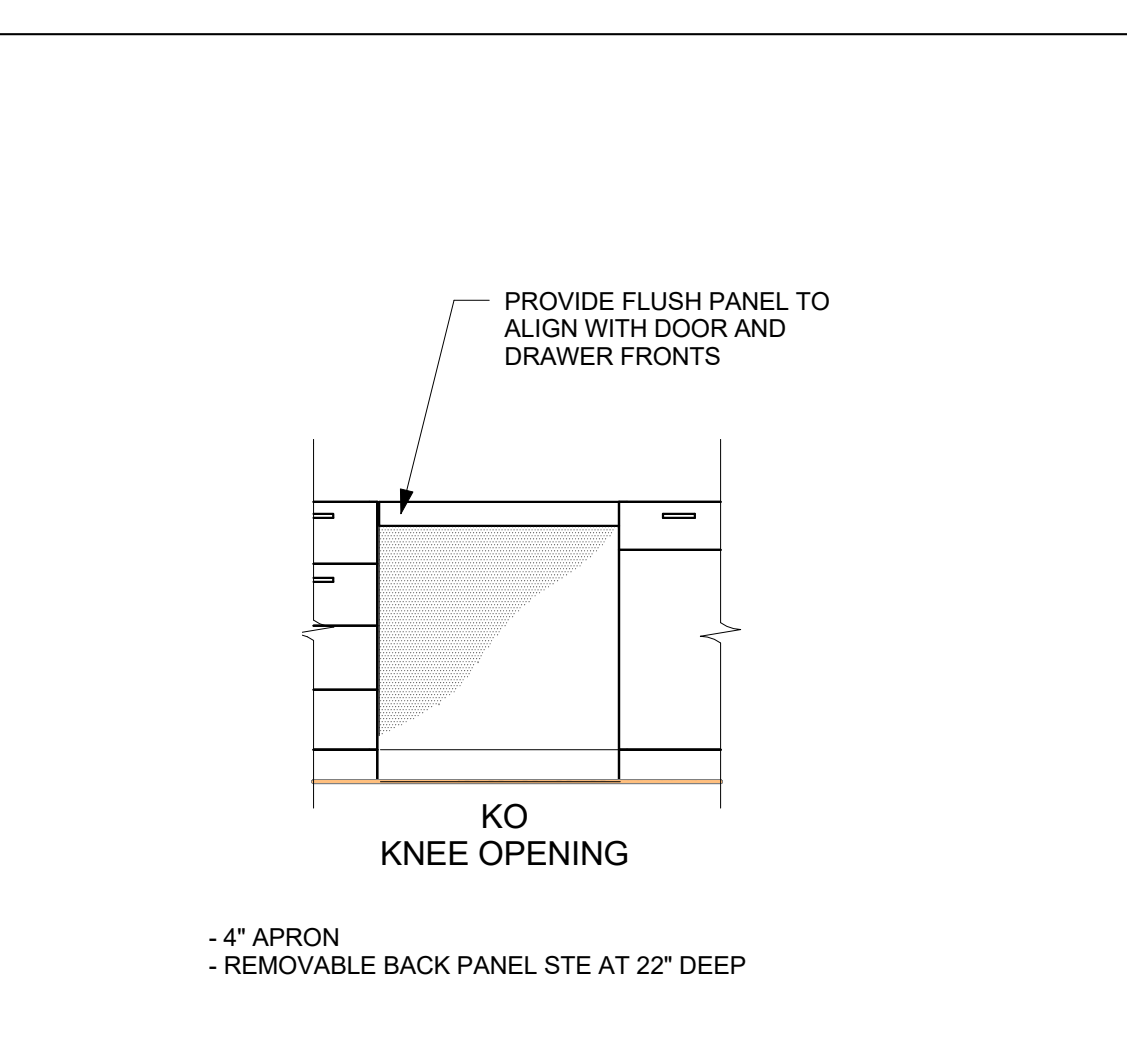
STANDING HEIGHT BASE CABINETS - (WOOD-U.N.O.)



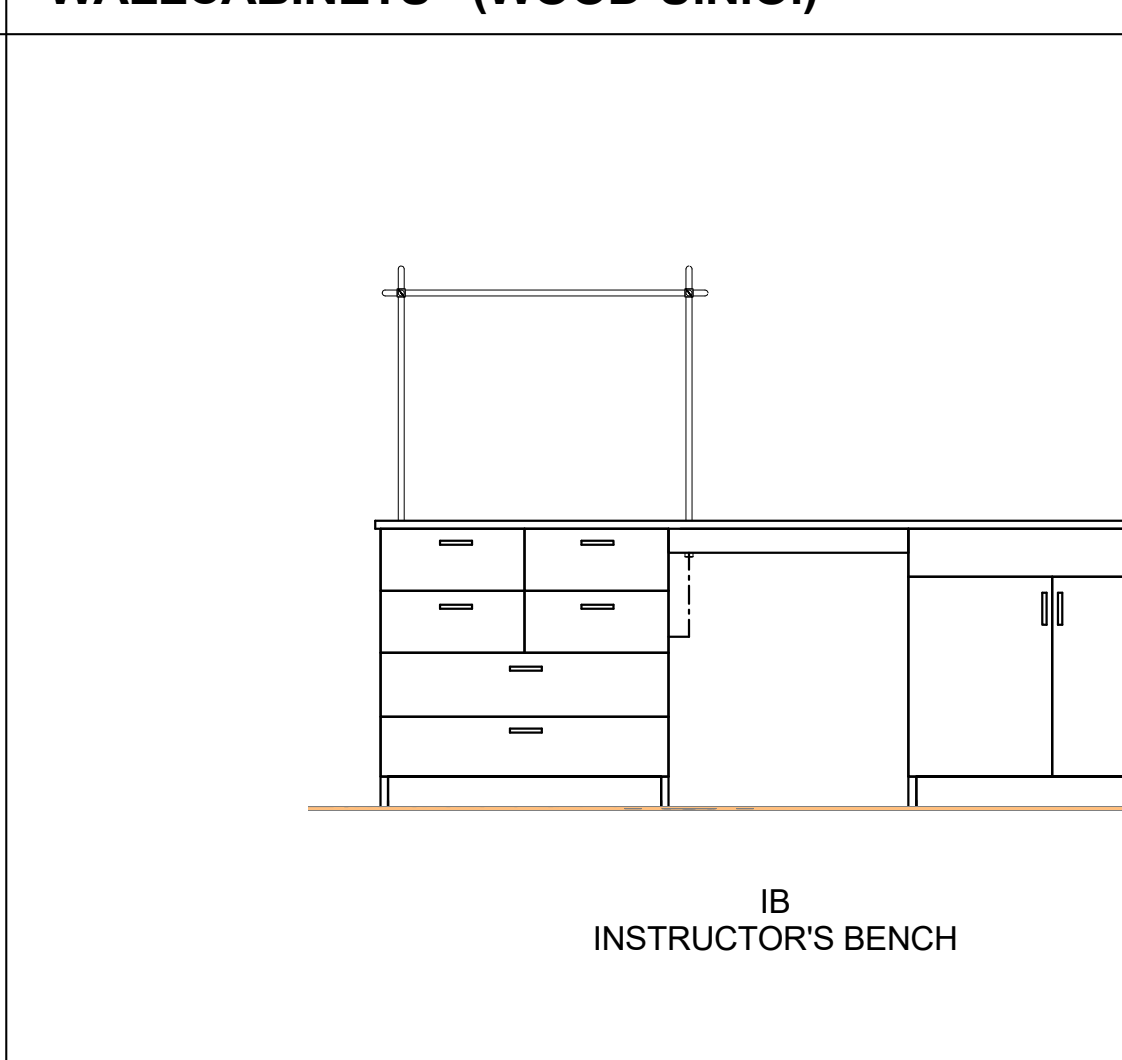
CASEWORK LEGEND AND NOTES



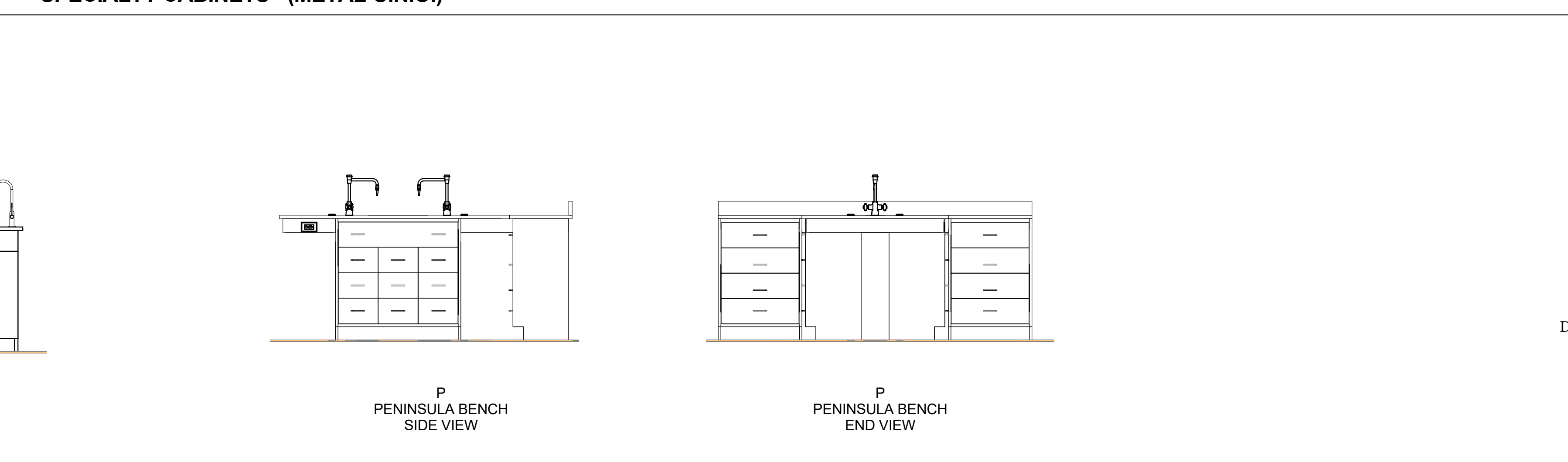
MOVEABLE TABLES (WOOD - U.N.O.)



WALLCABINETS - (WOOD-U.N.O.)

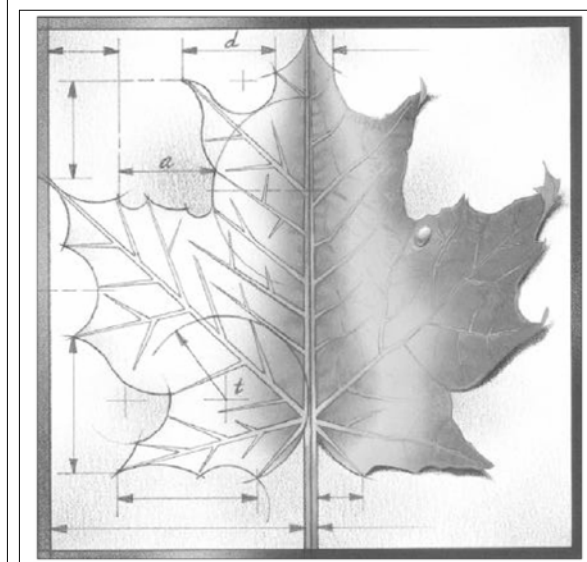


SPECIALTY CABINETS - (METAL-U.N.O.)



KNEE OPENINGS

BENCH ASSEMBLIES



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WAMEGO, KS 66547**

Sheet Title:
LAB CASEWORK TYPES

Sheet:
LF 1.03

OF:

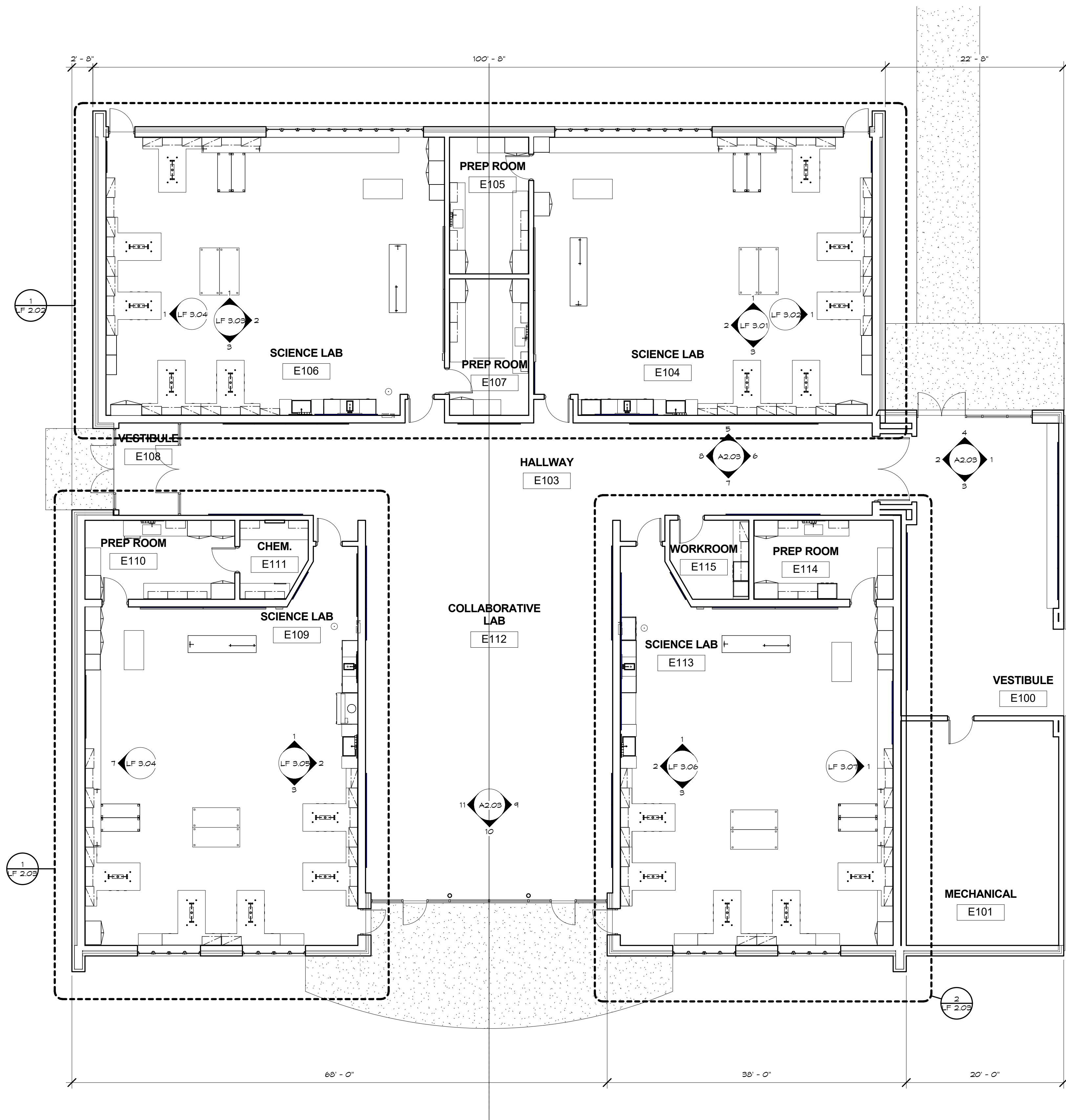
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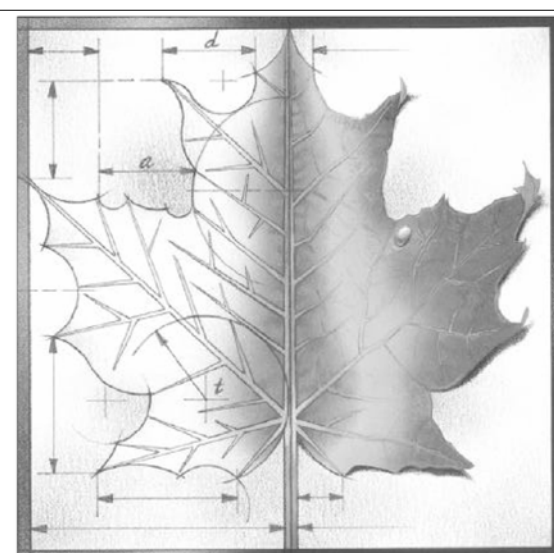
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1 LAB CASEWORK PLAN
 LF 2.01
 1/8" = 1'-0"



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Project Number: **16036**

Date: **11/28/17**

Project Name:

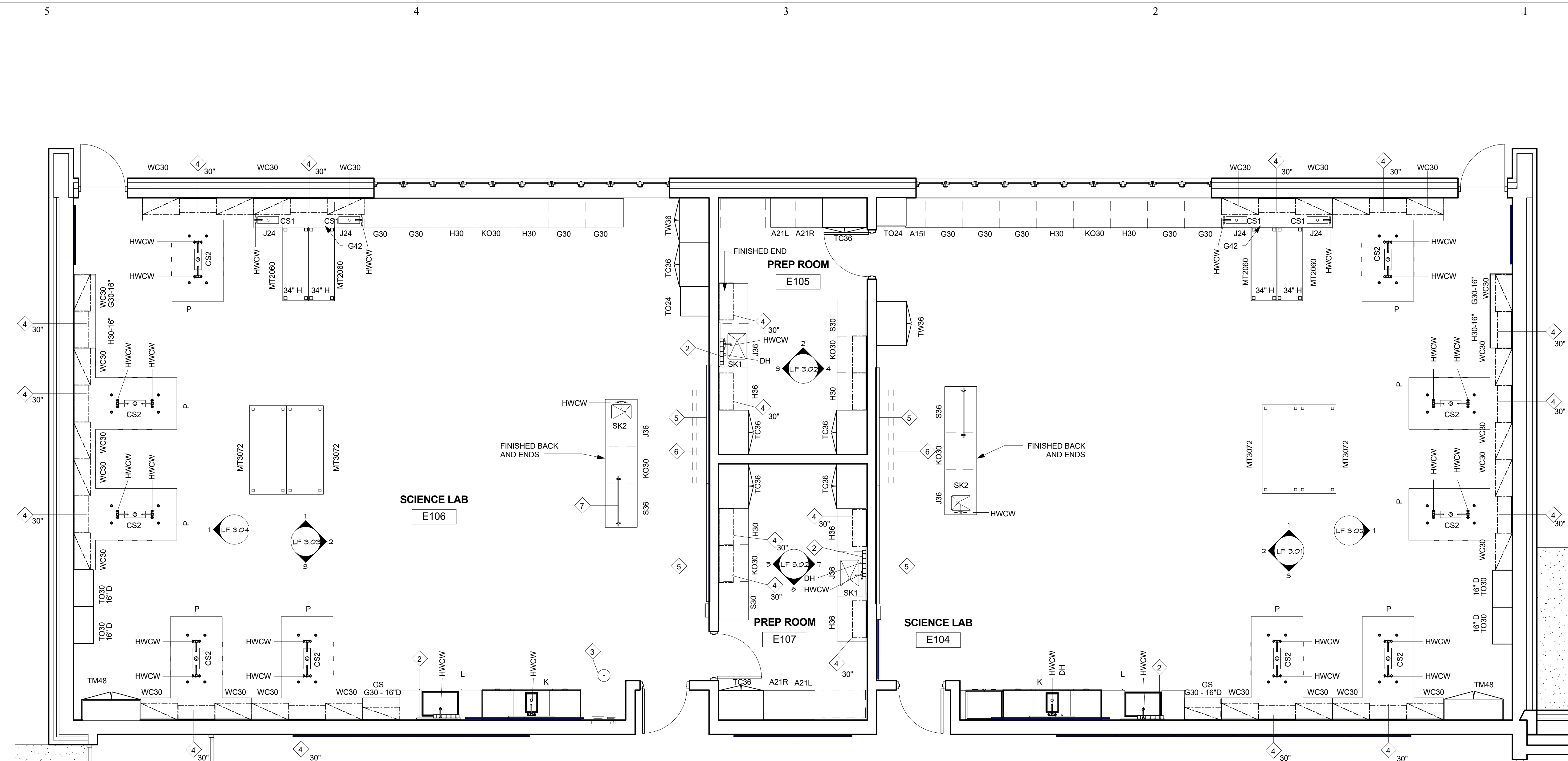
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
 1701 KAW VALLEY ROAD
 WAMEGO, KS 66547

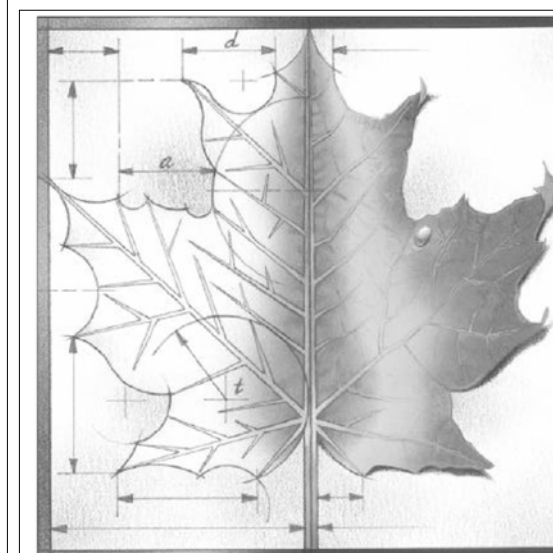
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LAB CLASSROOM CASEWORK PLAN

Sheet:
LF 2.01

OF:



1 ENLARGED PLAN AT SCIENCE LABS E104, E106, LF 2.02 1/4" = 1'-0"



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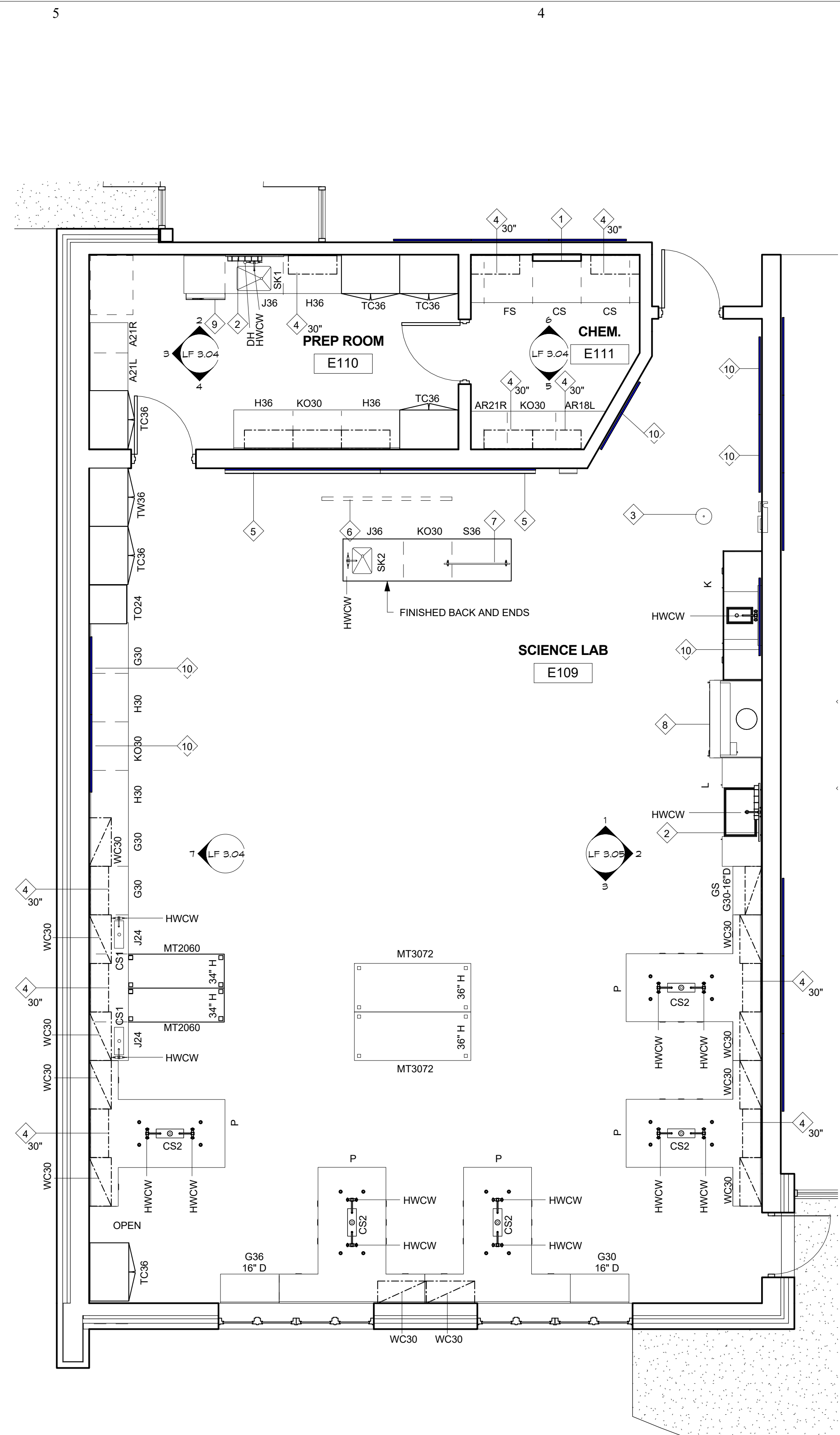
Project Number: **16036**
Date: **11/28/17**

Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

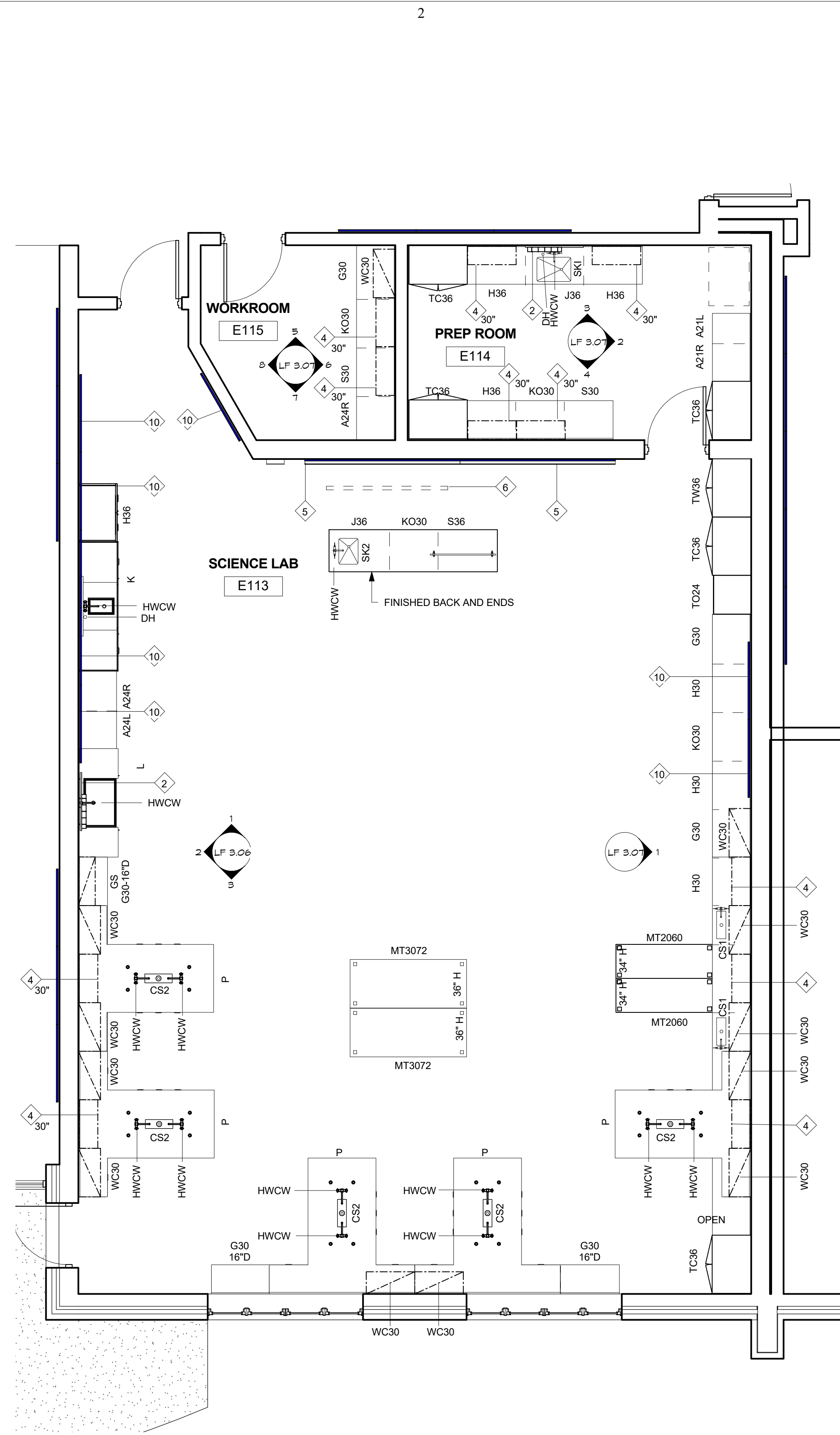
Project Address:
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Sheet Title:
LAB CASEWORK PLAN

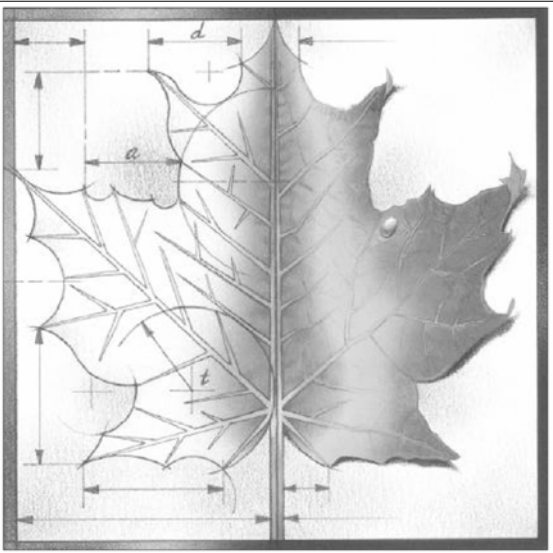
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LF 2.02
Of:



1 ENLARGED PLAN AT SCIENCE LAB E109
LF 2.03 1/4" = 1'-0"



2 ENLARGED PLAN AT SCIENCE LAB E113
LF 2.03 1/4" = 1'-0"



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Project Number: **16036**
Date: **11/28/17**

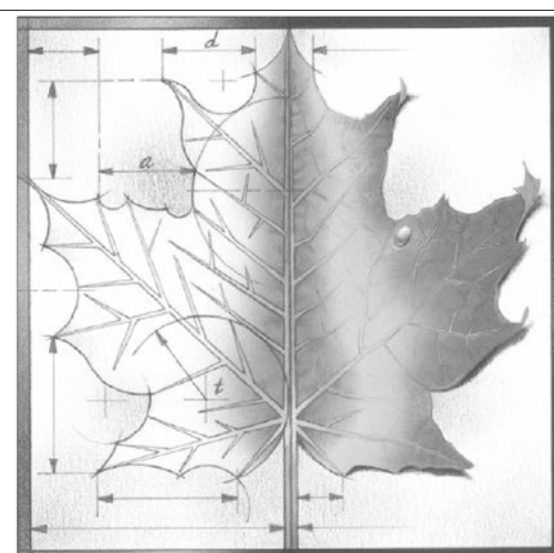
Project Name:
USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
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Sheet Title:
LAB CASEWORK PLANS

Sheet:
LF 2.03
Of:





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Project Number: **16036**

Date: **11/28/17**

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
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WAMEGO, KS 66547

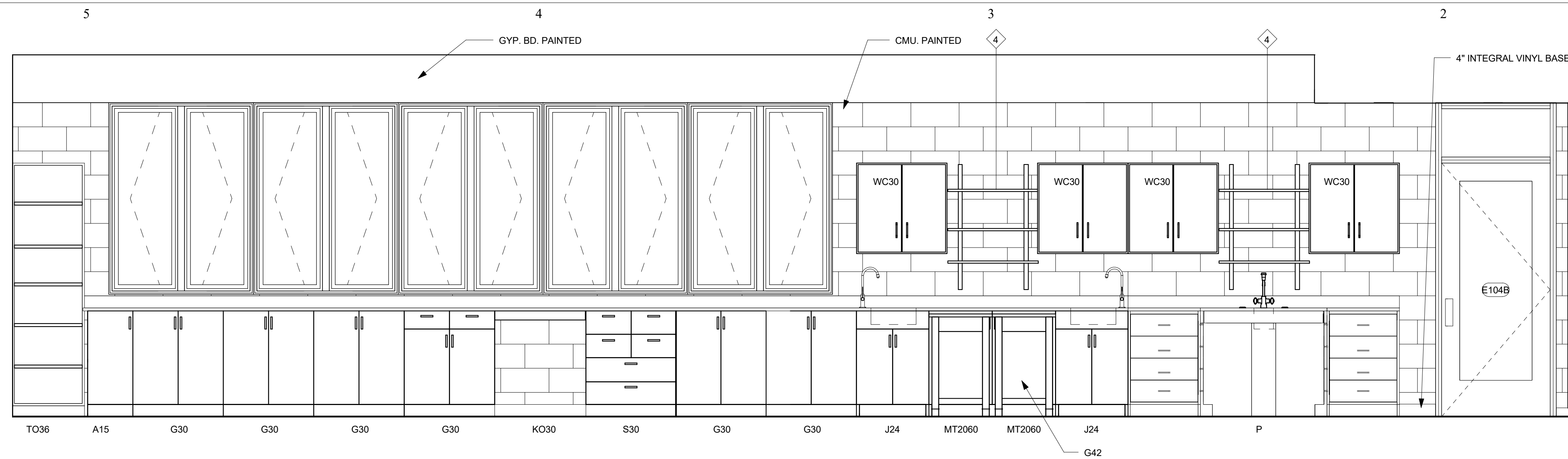
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LAB ELEVATIONS

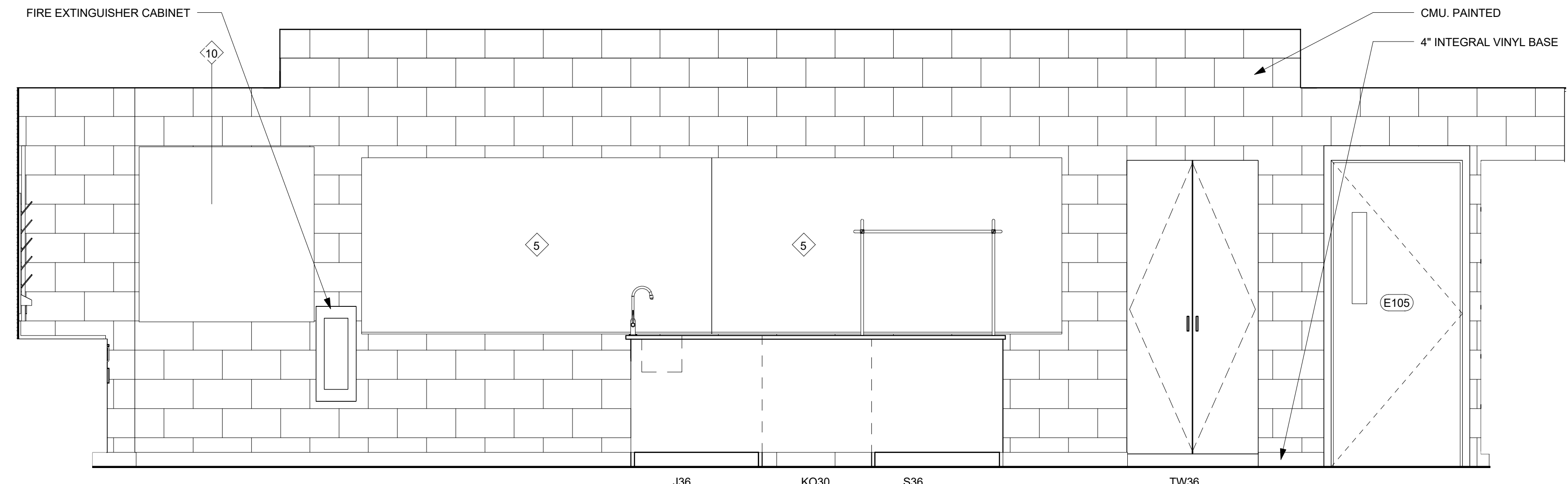
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LF 3.01

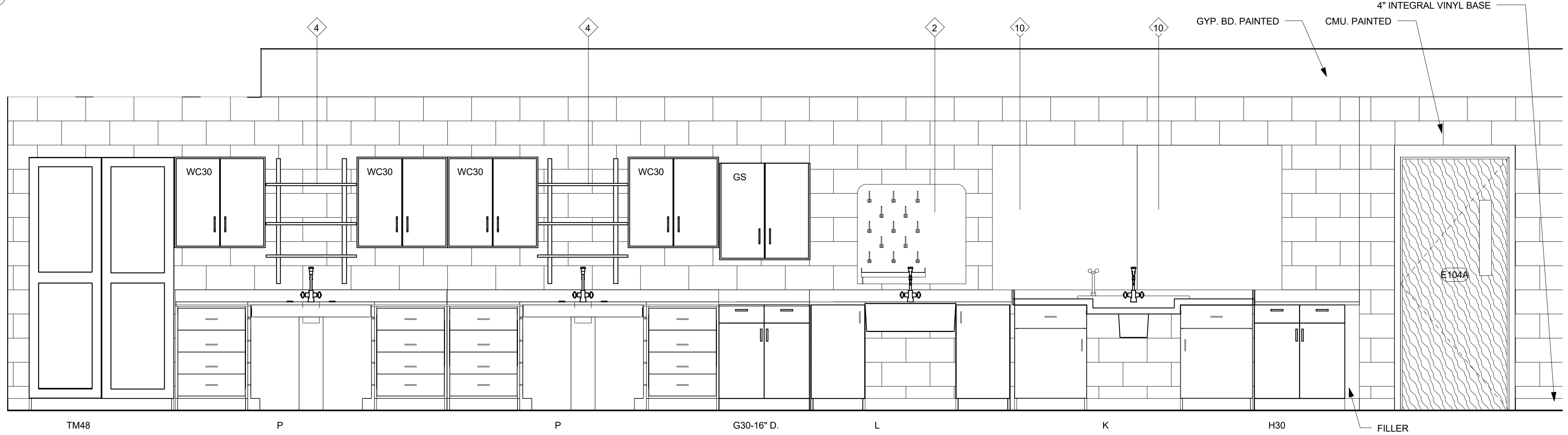
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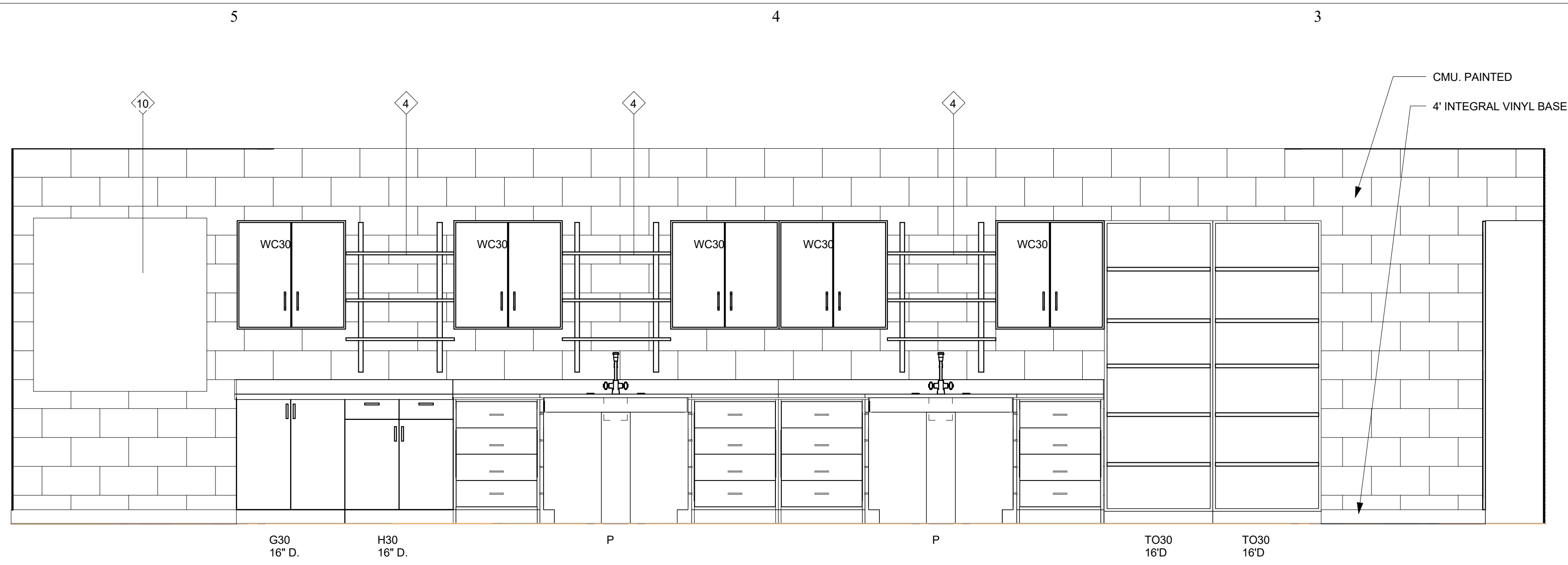
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LF 3.01 1/2" = 1'-0"



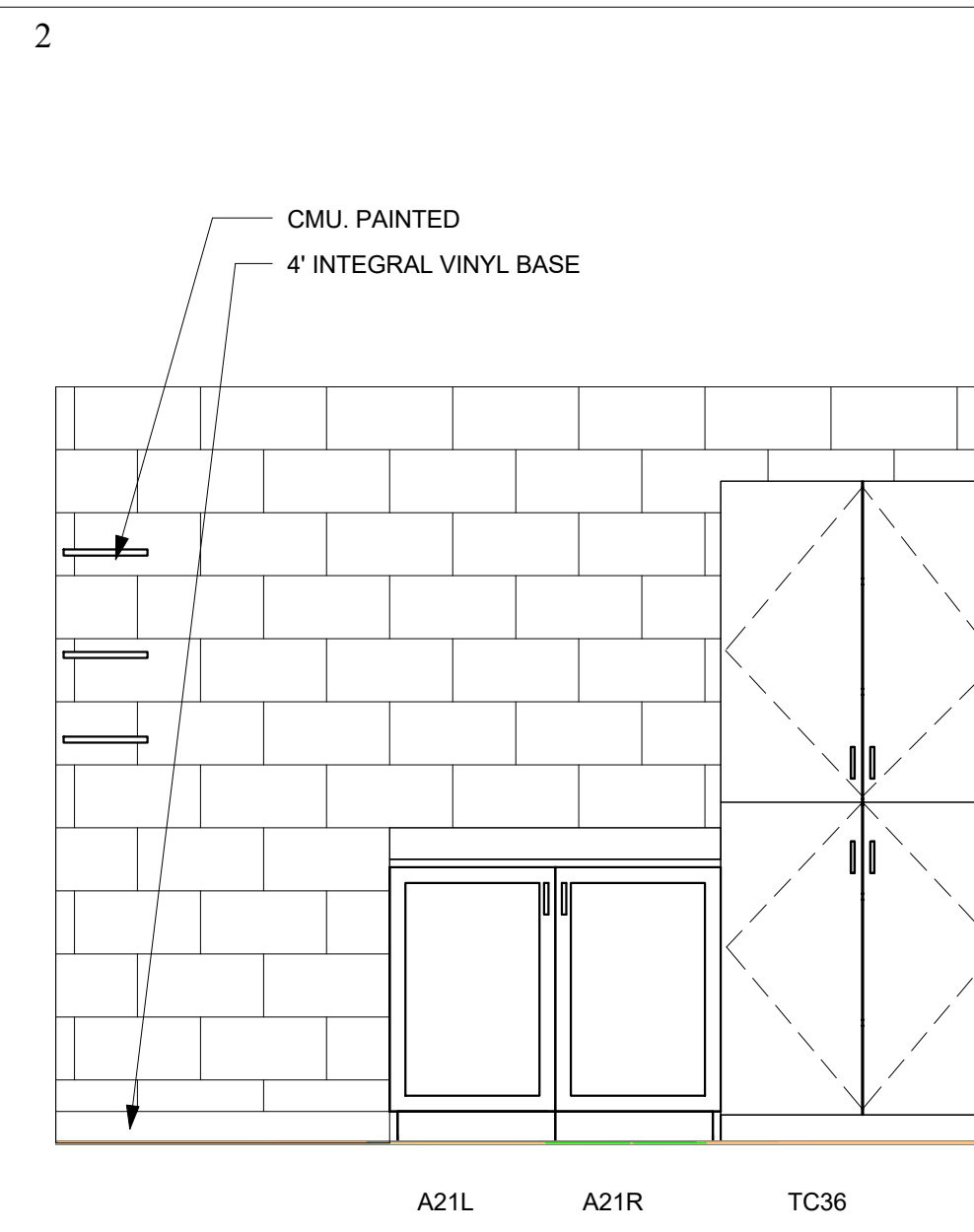
2 WEST WALL - SCIENCE LAB E104
LF 3.01 1/2" = 1'-0"



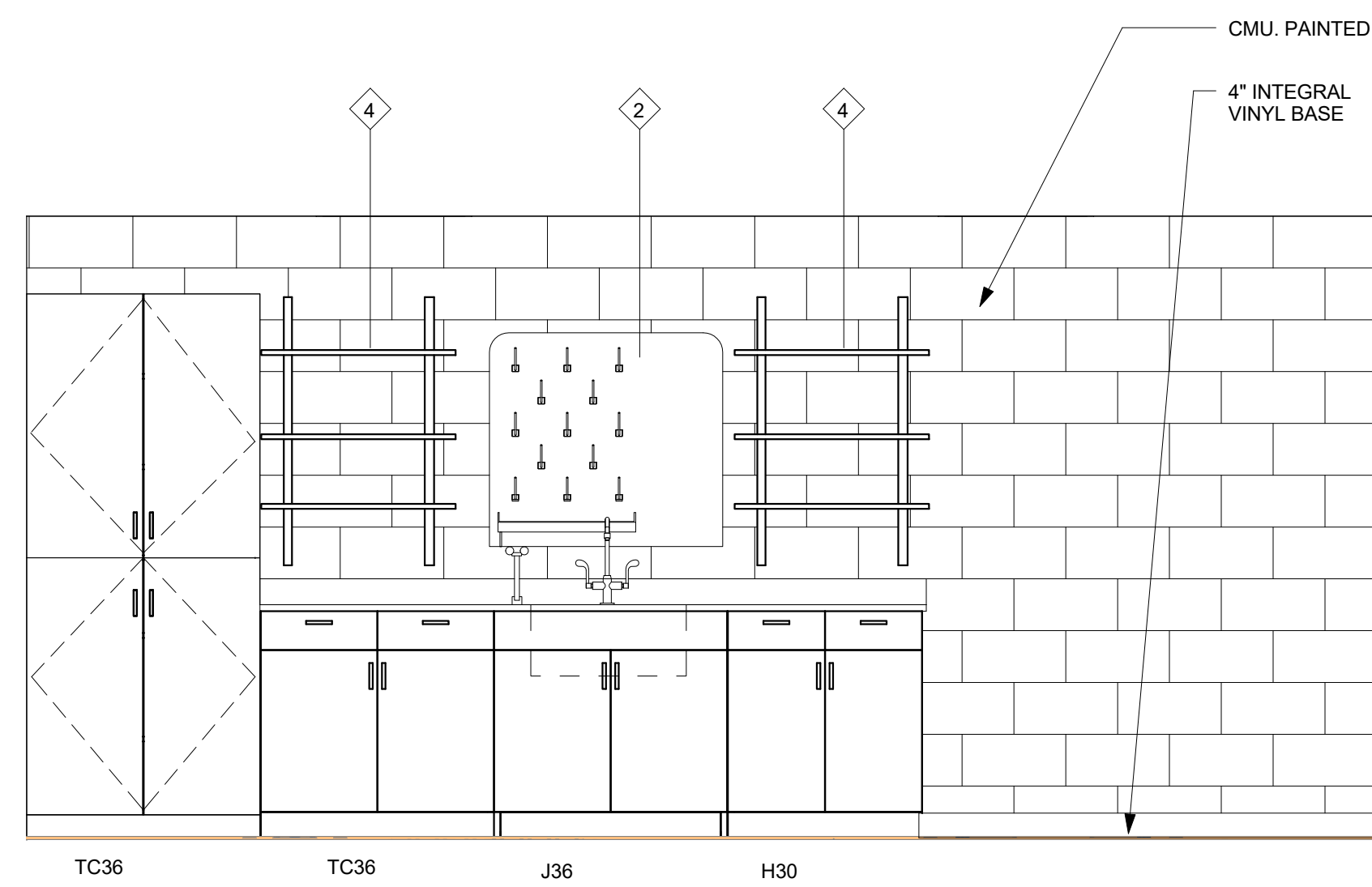
3 SOUTH WALL - SCIENCE LAB E104
LF 3.01 1/2" = 1'-0"



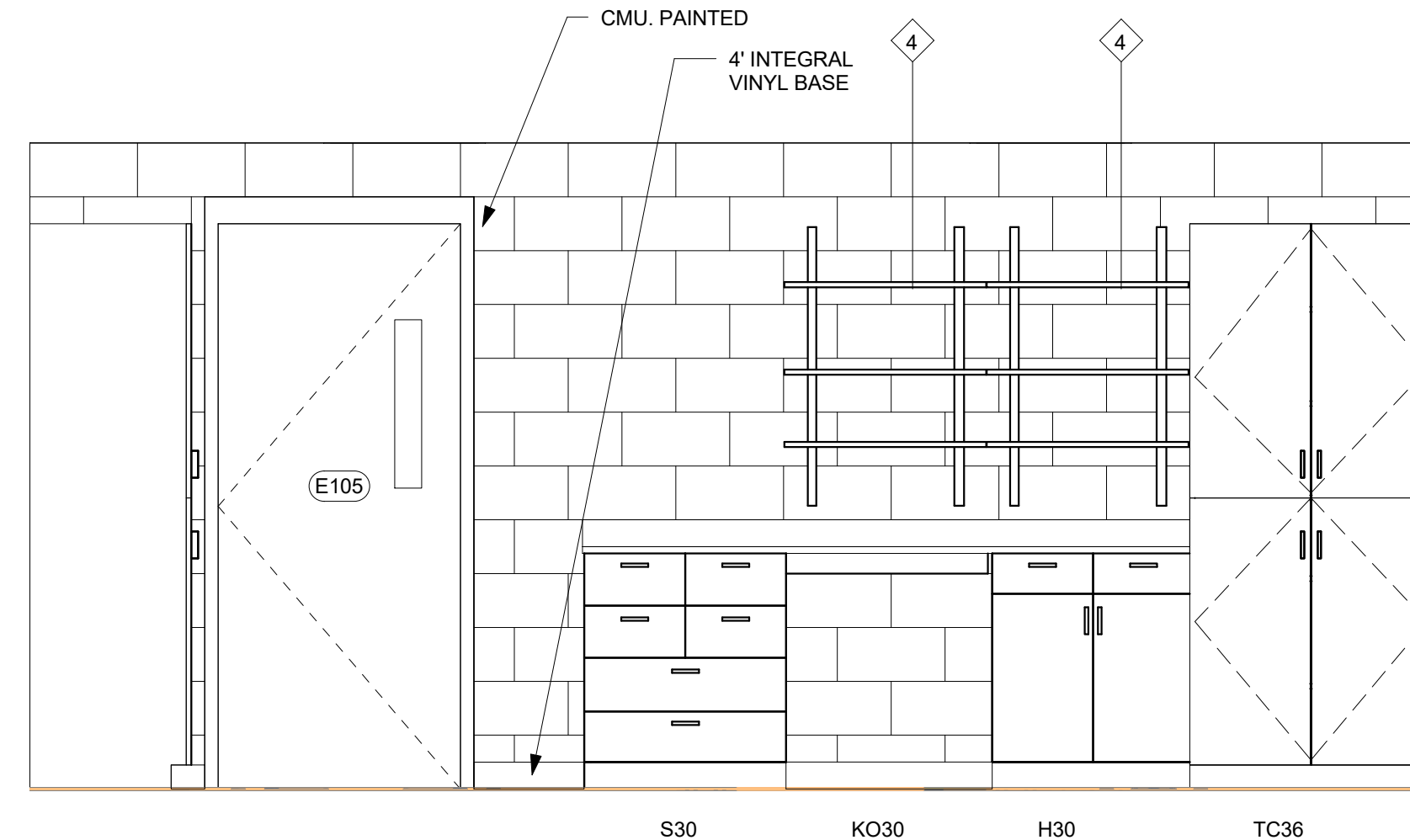
1 EAST WALL - SCIENCE LAB E104
LF 3.02 1/2" = 1'-0"



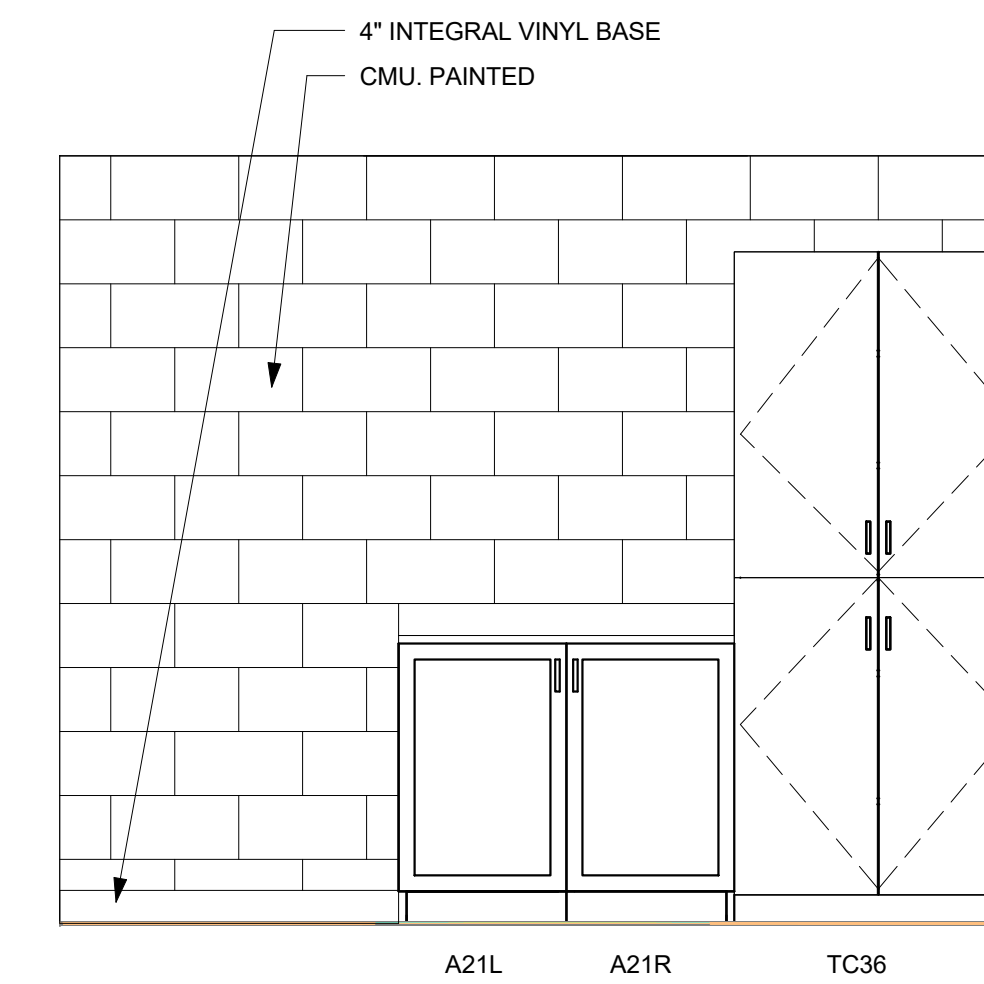
2 NORTH WALL - PREP ROOM E105
LF 3.02 1/2" = 1'-0"



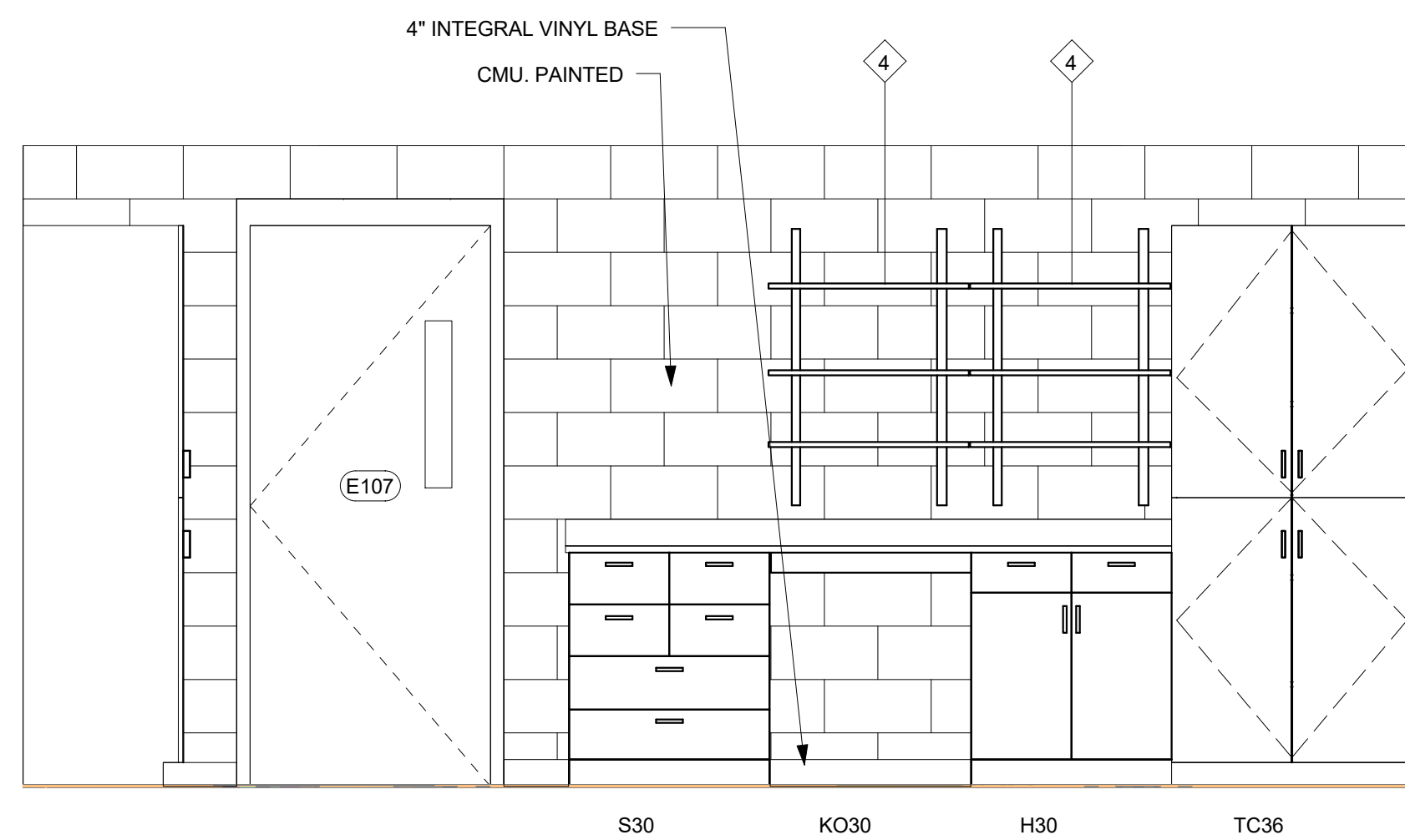
3 WEST WALL - PREP ROOM E105
LF 3.02 1/2" = 1'-0"



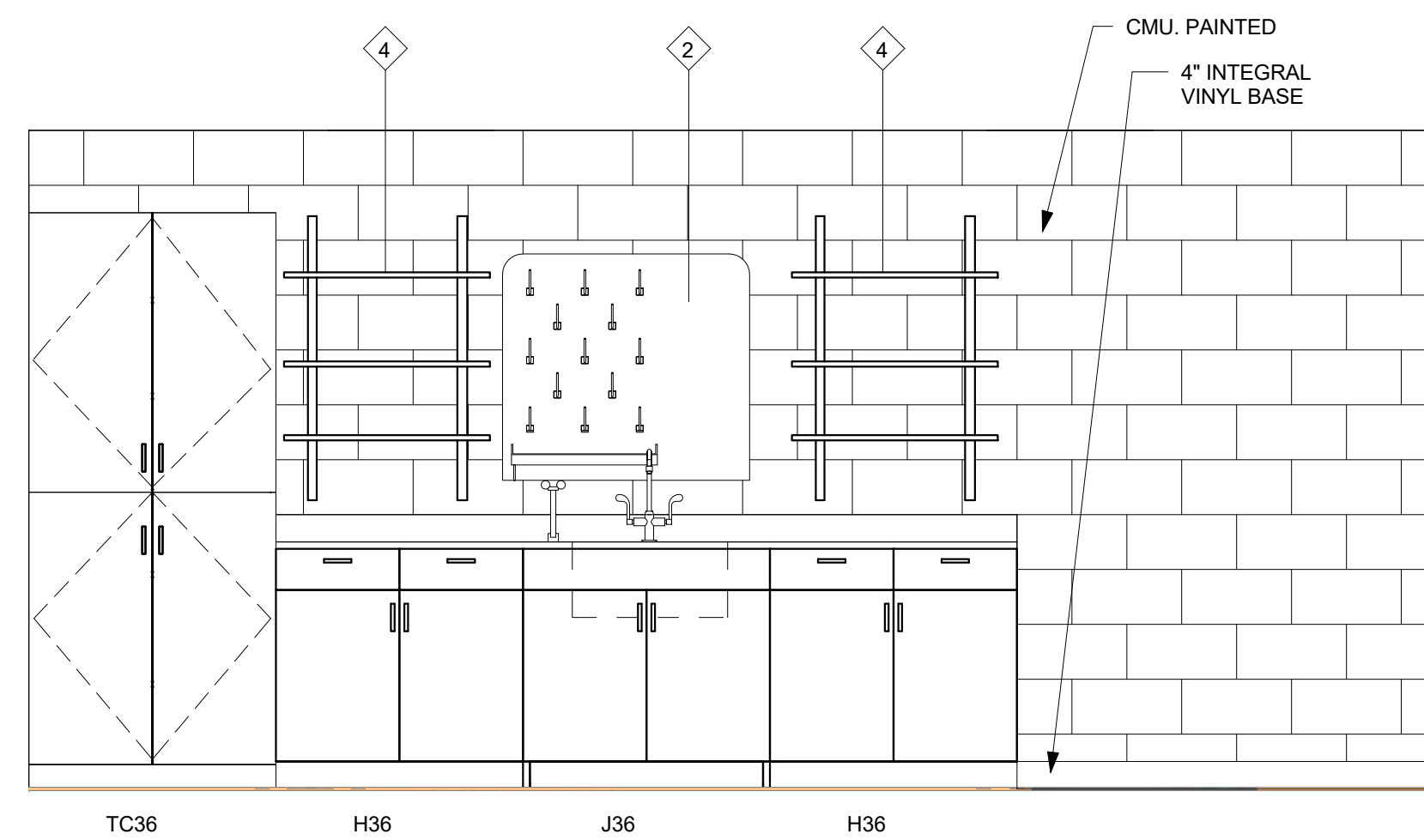
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LF 3.02 1/2" = 1'-0"



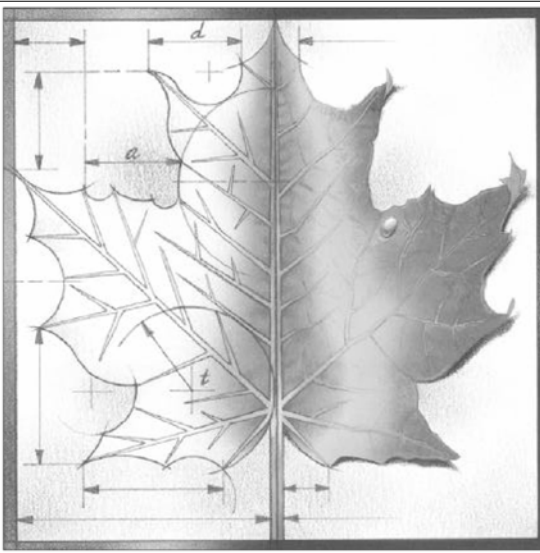
6 SOUTH WALL - PREP ROOM E107
LF 3.02 1/2" = 1'-0"



5 WEST WALL - PREP ROOM E107
LF 3.02 1/2" = 1'-0"



7 EAST WALL - PREP ROOM E107
LF 3.02 1/2" = 1'-0"



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Project Number: **16036**

Date: **11/28/17**

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

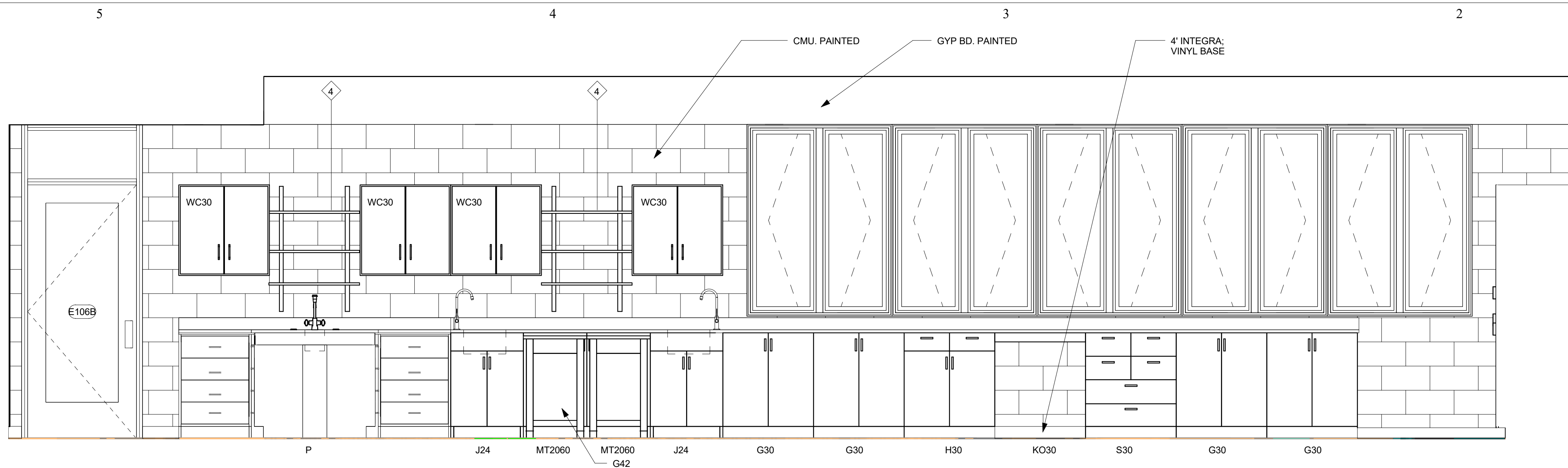
Project Address:
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WAMEGO, KS 66547**

Sheet Title:

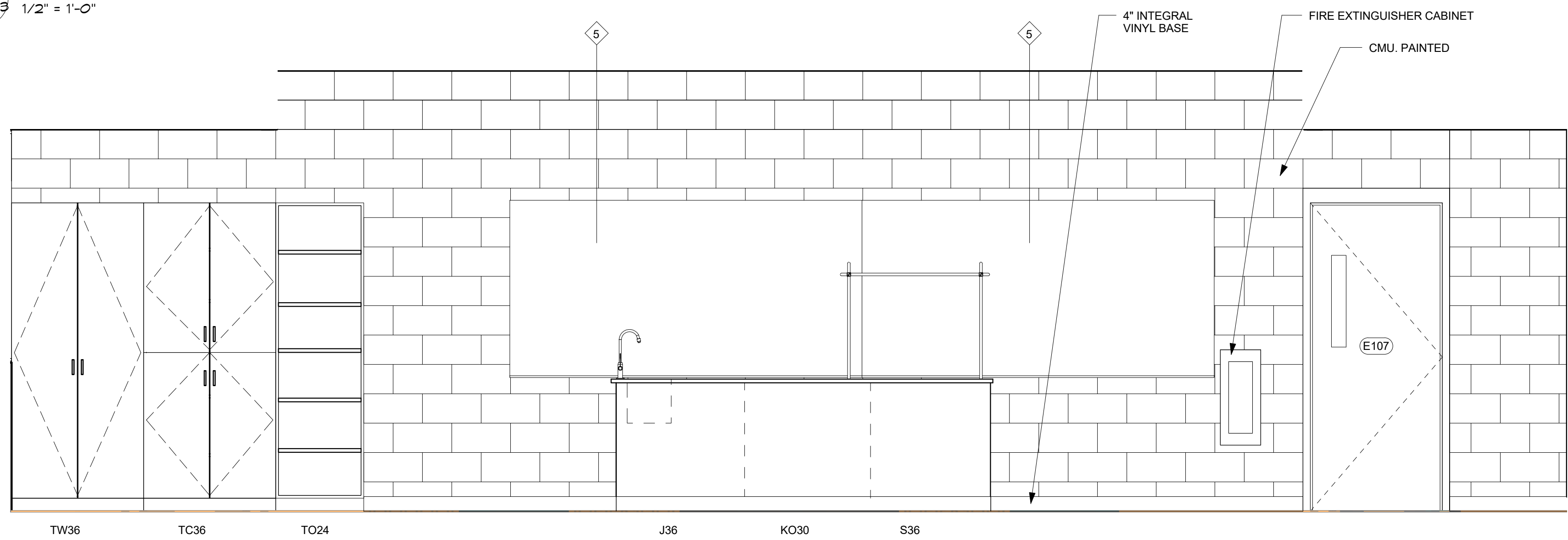
LAB ELEVATIONS

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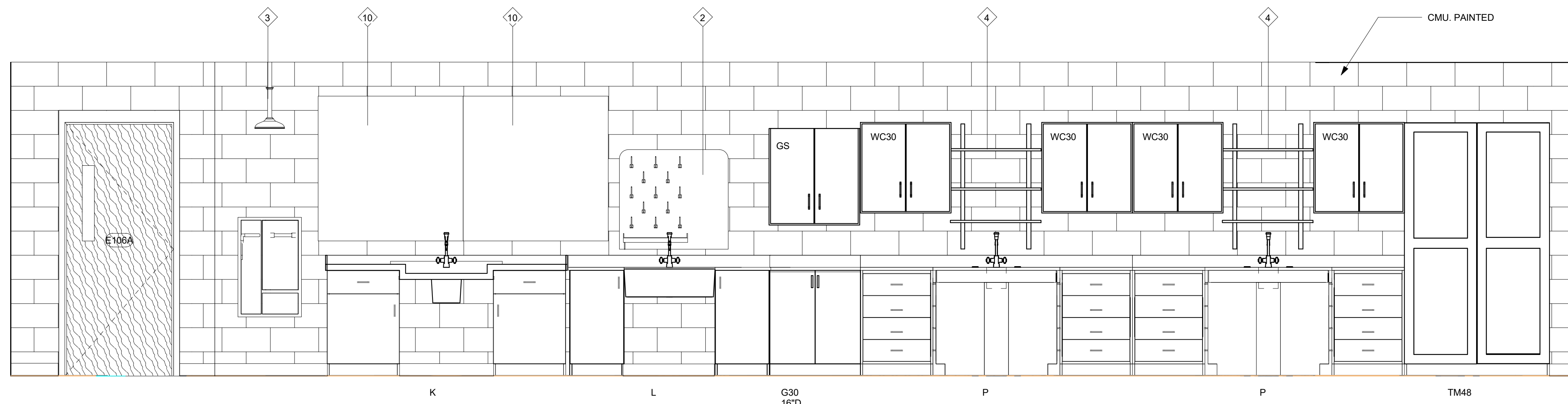
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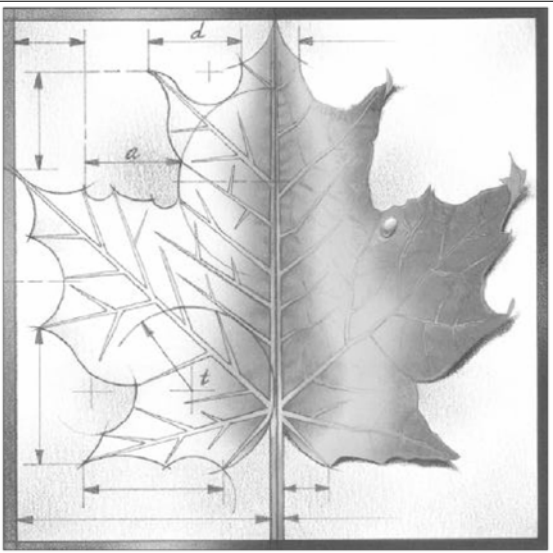
1 NORTH WALL - SCIENCE LAB E106
 LF 3.03 1/2" = 1'-0"



2 EAST WALL - SCIENCE LAB E106
 LF 3.03 1/2" = 1'-0"



3 SOUTH WALL - SCIENCE LAB E106
 LF 3.03 1/2" = 1'-0"



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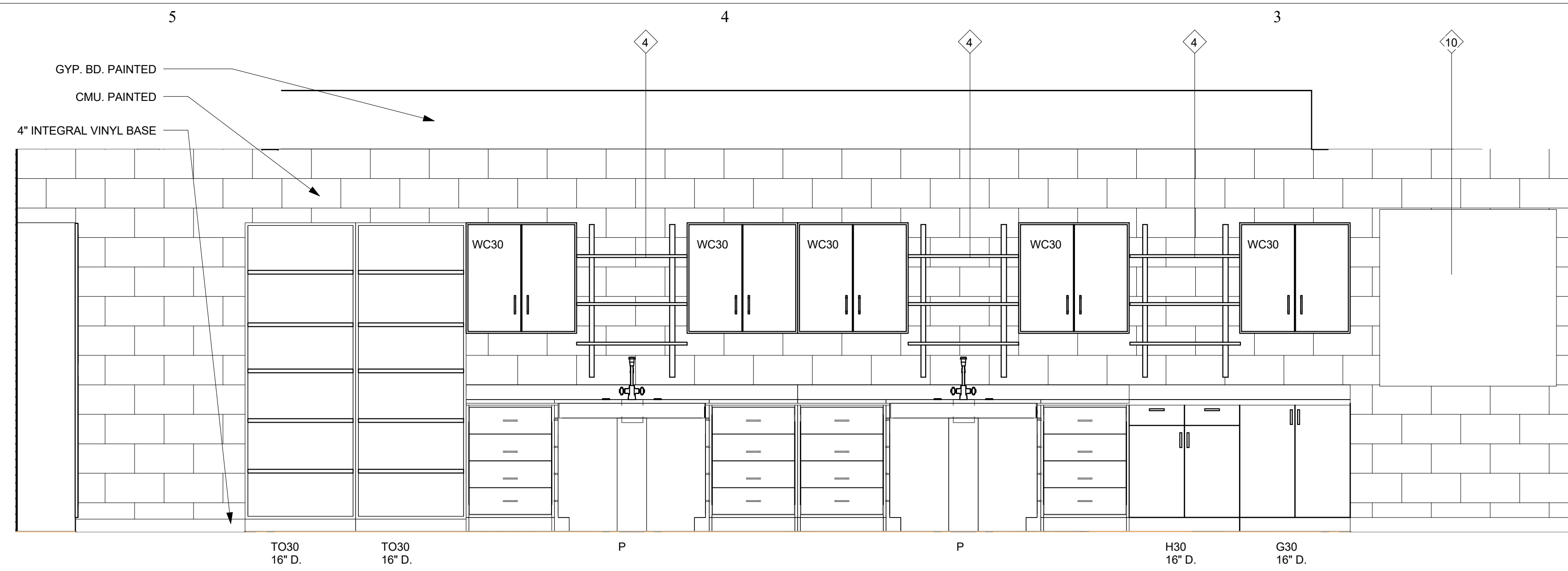
Project Address:
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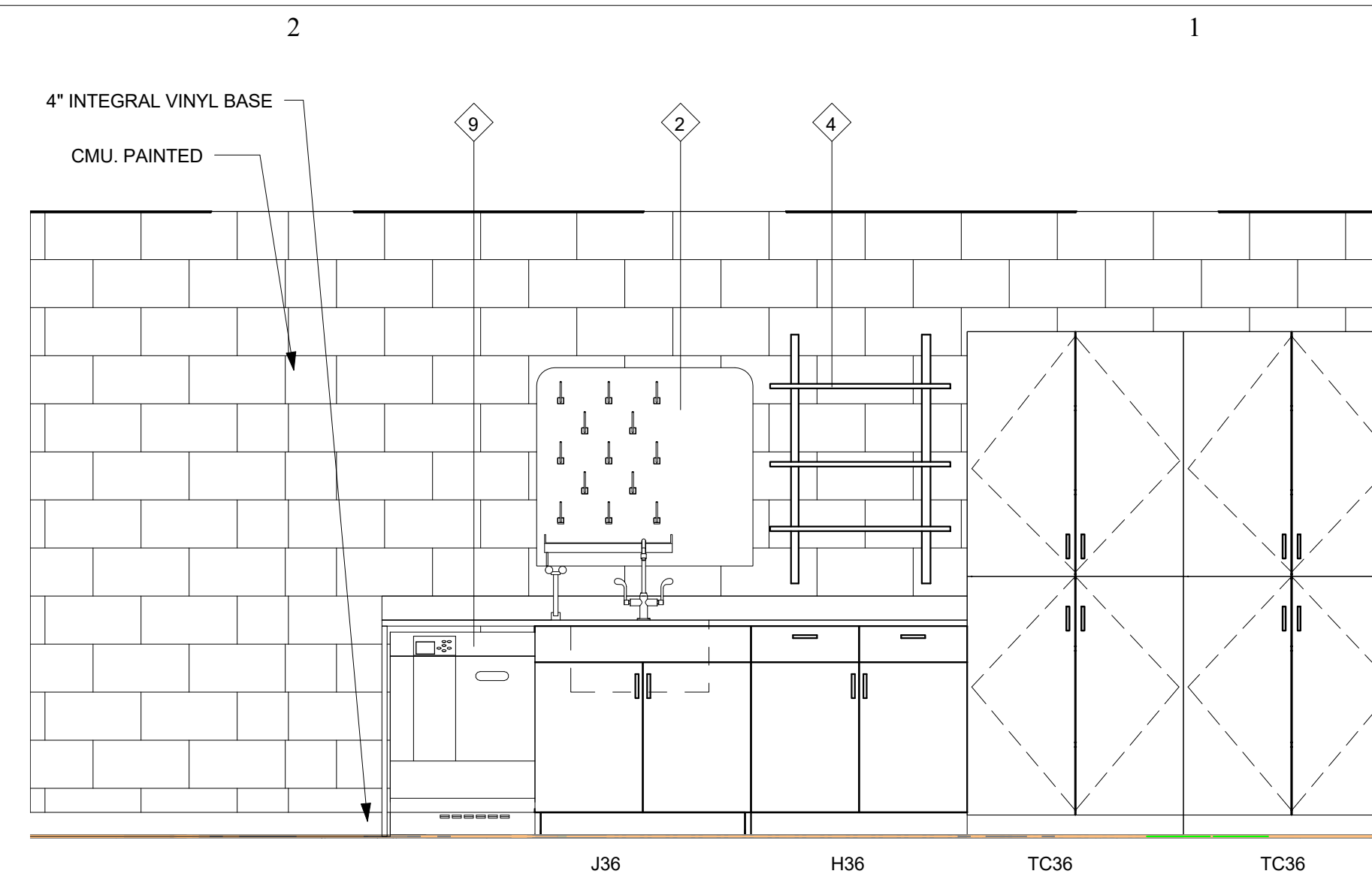
LAB ELEVATIONS

Sheet: **LF 3.03**

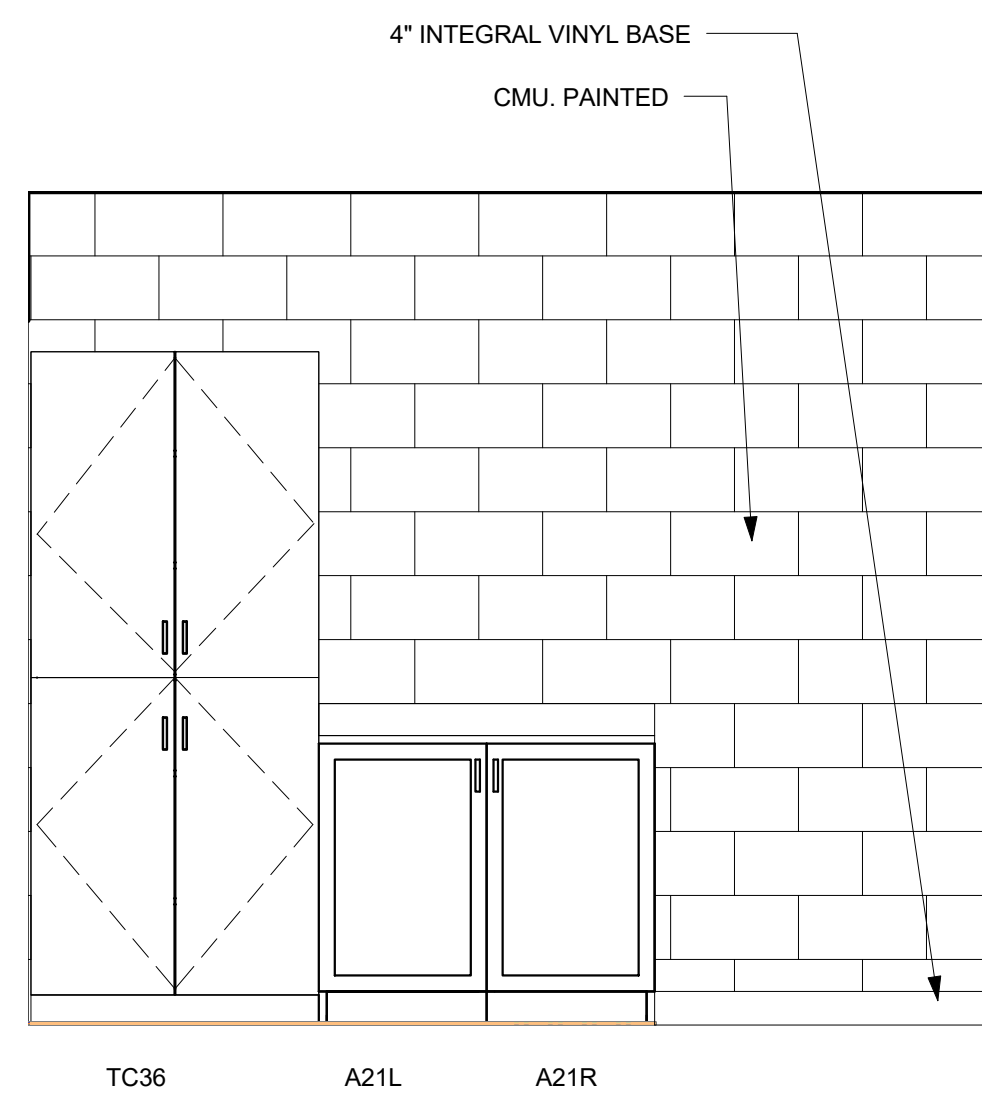
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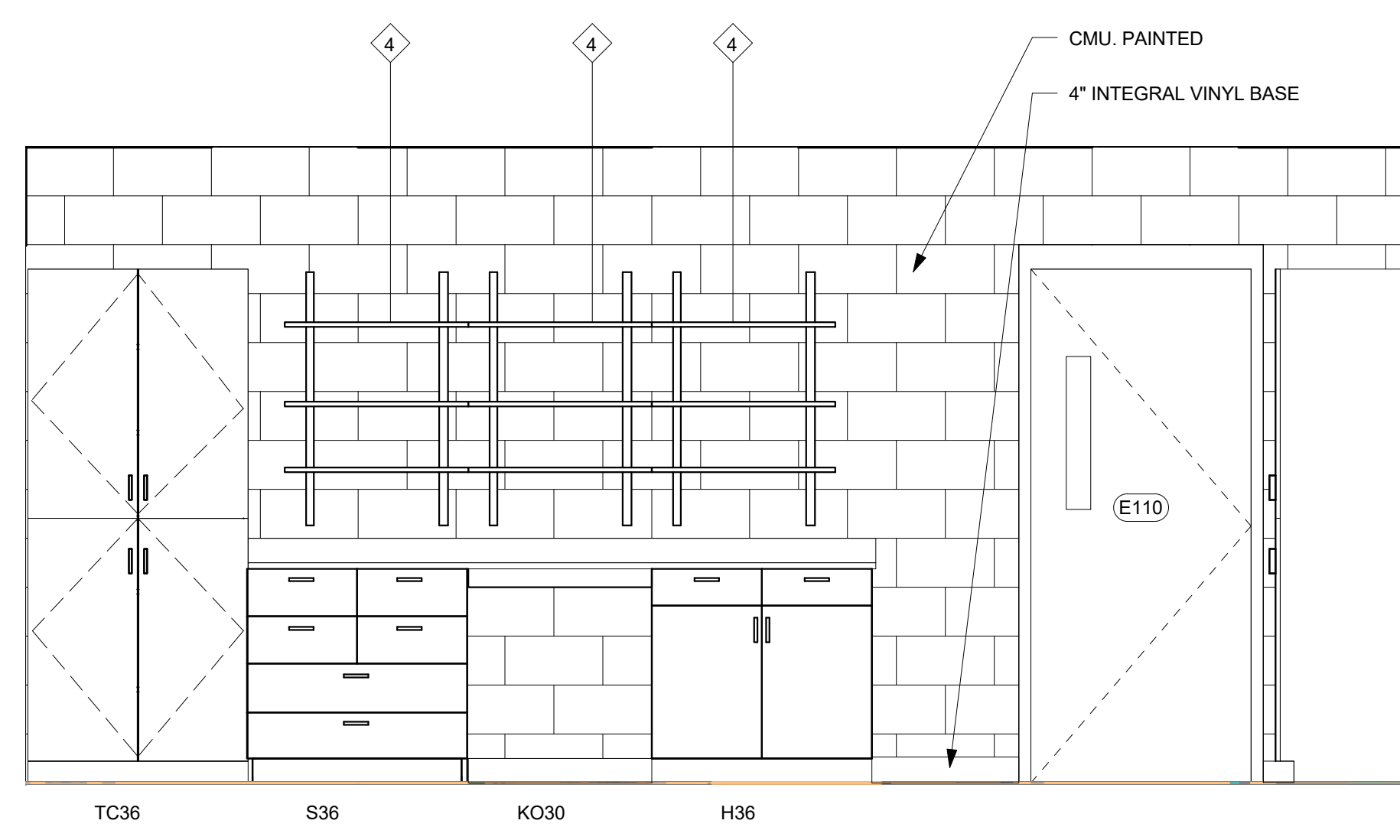
1 WEST WALL - SCIENCE LAB E106
LF 3.04 1/2" = 1'-0"



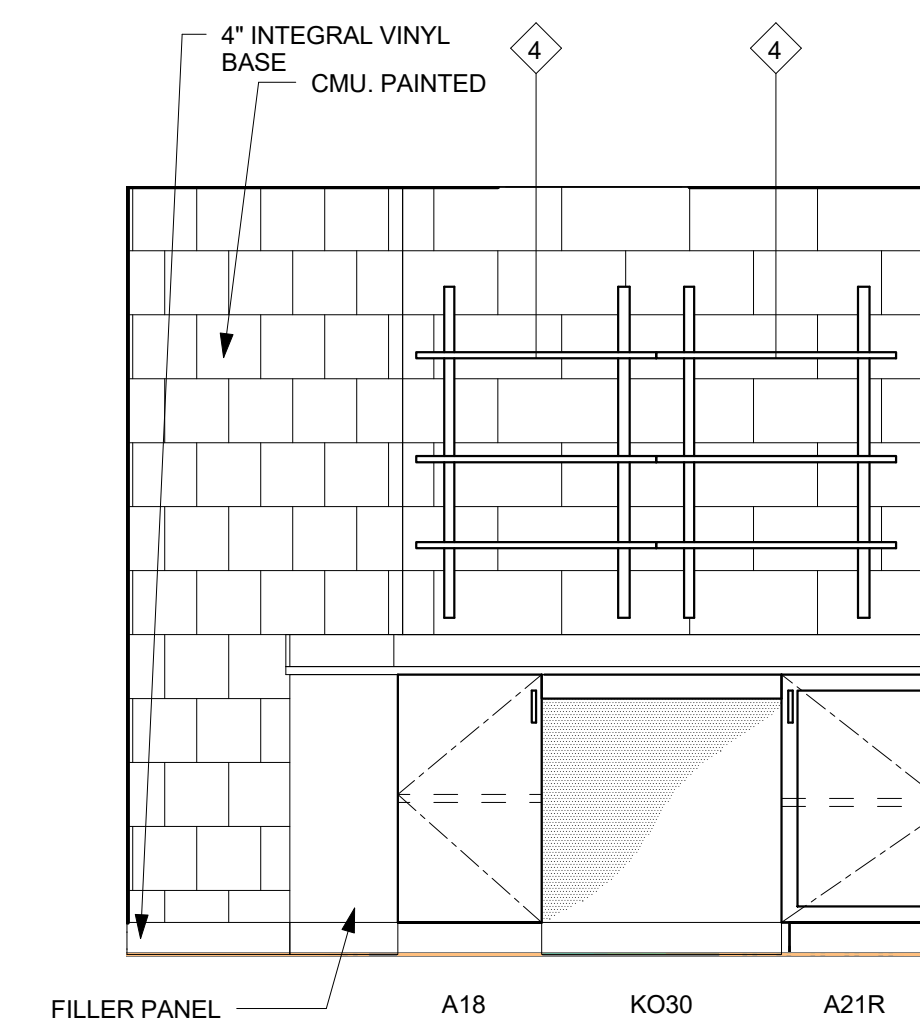
2 NORTH WALL - PREP ROOM E110
LF 3.04 1/2" = 1'-0"



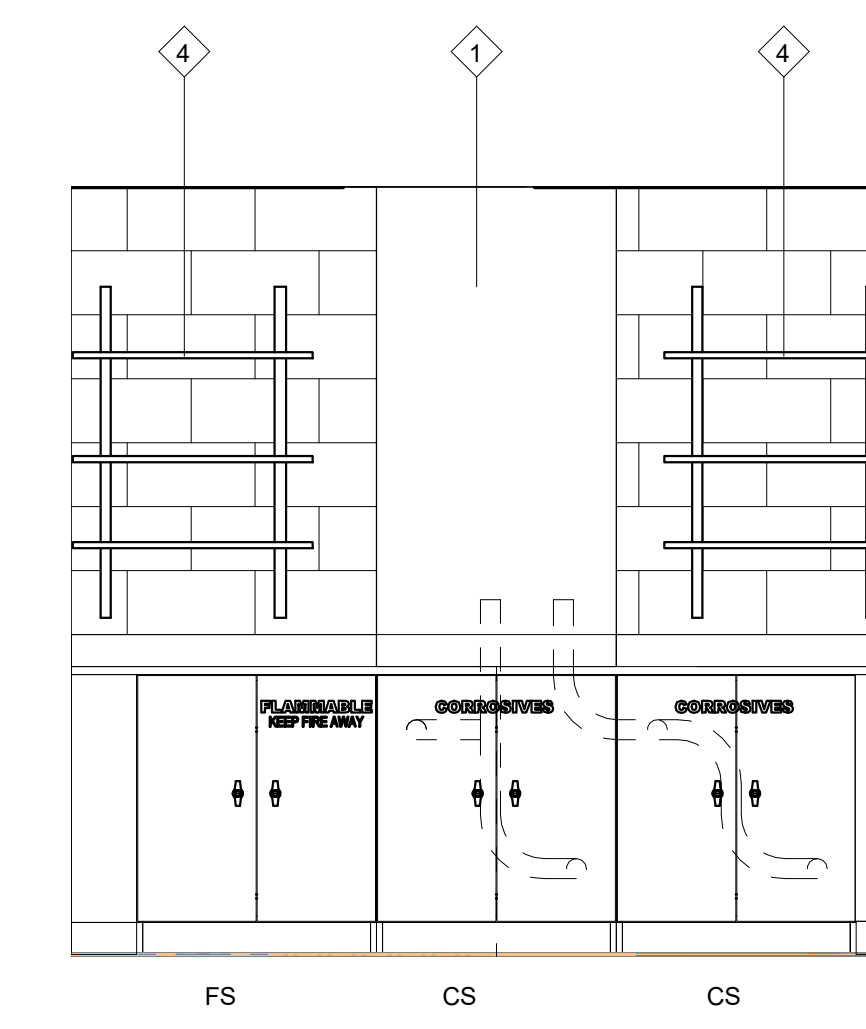
3 WEST WALL - PREP ROOM E110
LF 3.04 1/2" = 1'-0"



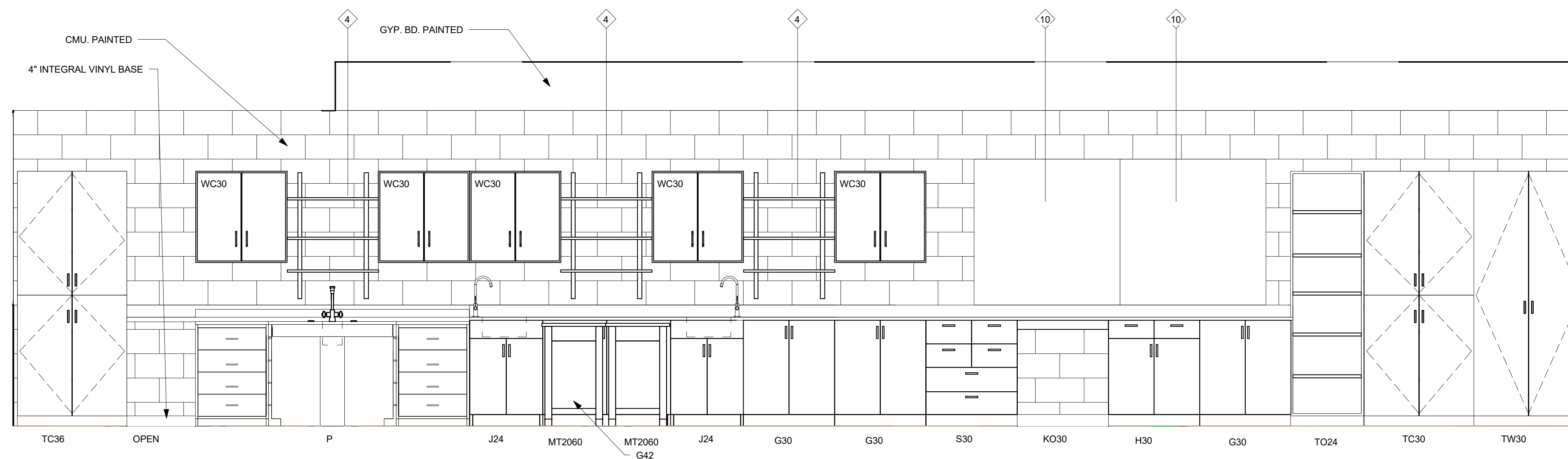
4 SOUTH WALL - PREP ROOM E110
LF 3.04 1/2" = 1'-0"



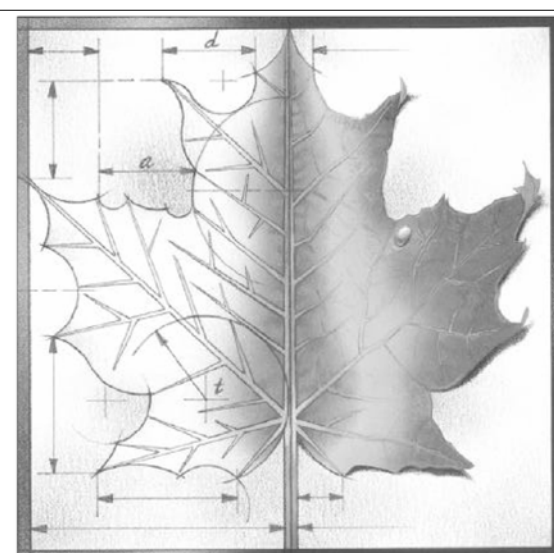
5 SOUTH WALL - CHEMICALS E111
LF 3.04 1/2" = 1'-0"



6 NORTH WALL - CHEMICALS E111
LF 3.04 1/2" = 1'-0"



7 WEST WALL - SCIENCE LAB E109
LF 3.04 1/2" = 1'-0"



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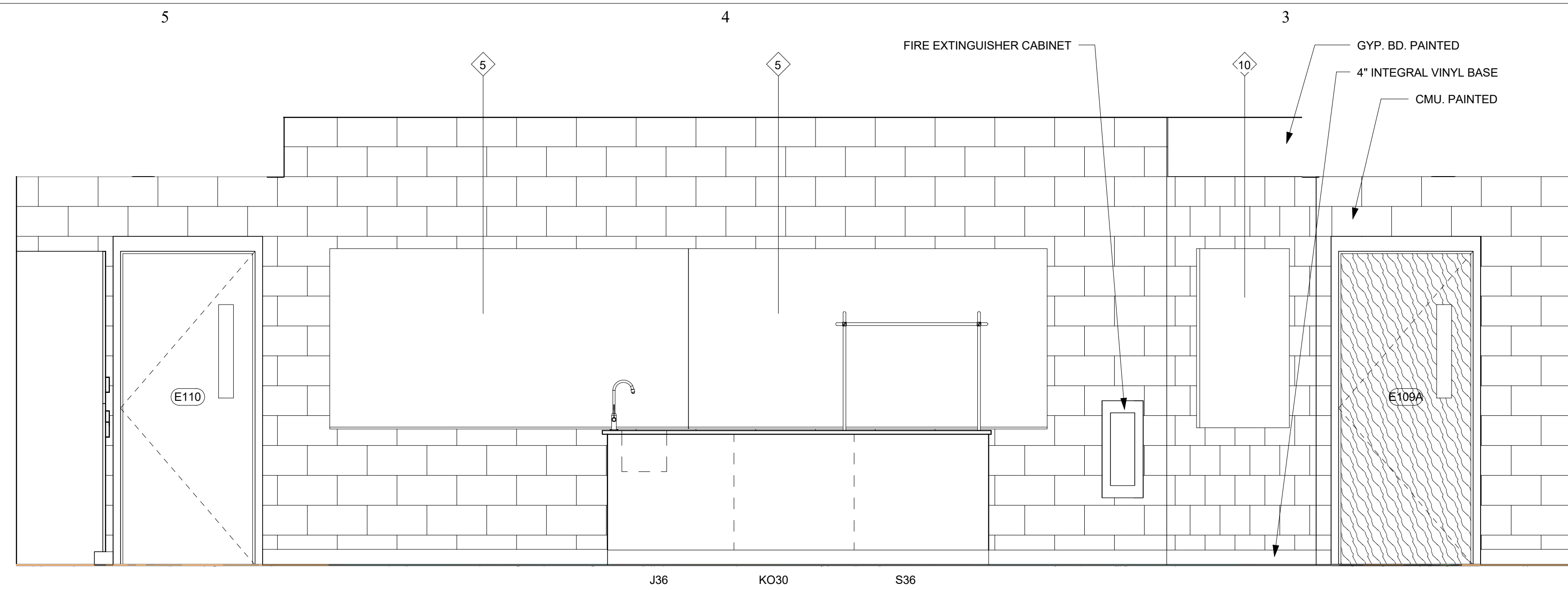
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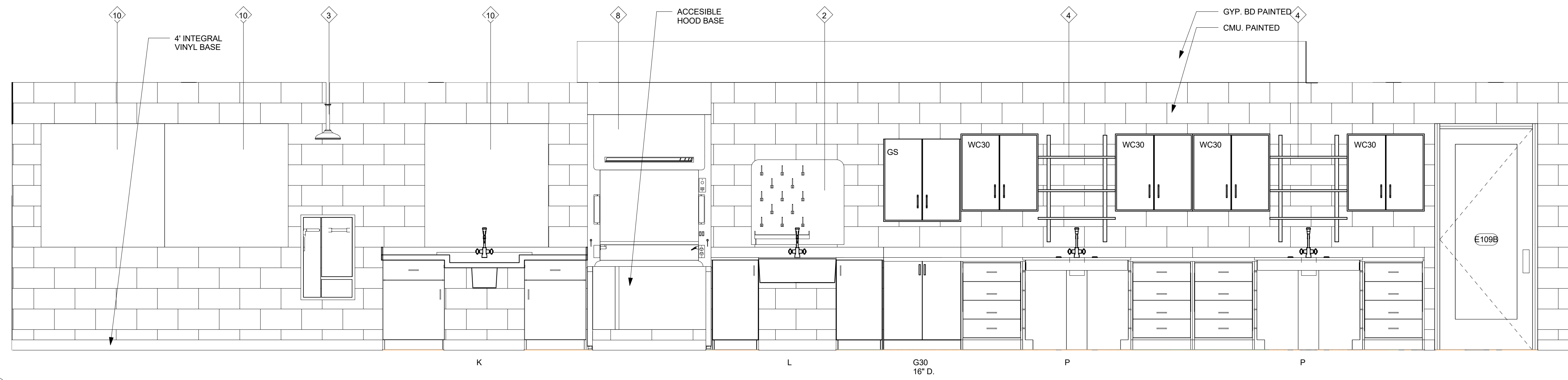
LAB CASEWORK ELEVATIONS

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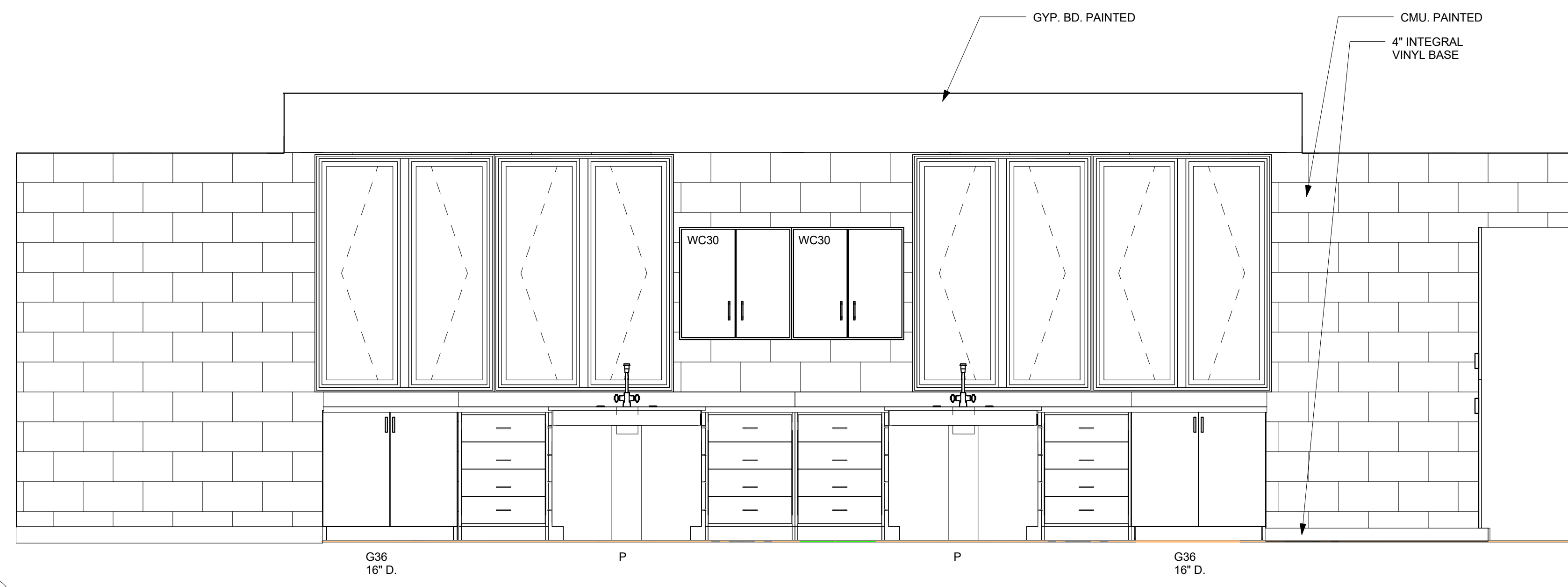
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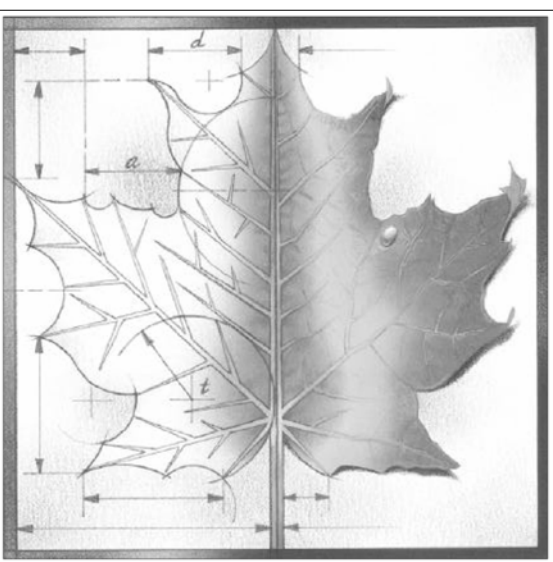
1 NORTH WALL - SCIENCE LAB E109
LF 3.05 1/2" = 1'-0"



2 EAST WALL - SCIENCE LAB E109
LF 3.05 1/2" = 1'-0"



3 SOUTH WALL - SCIENCE LAB E109
LF 3.05 1/2" = 1'-0"



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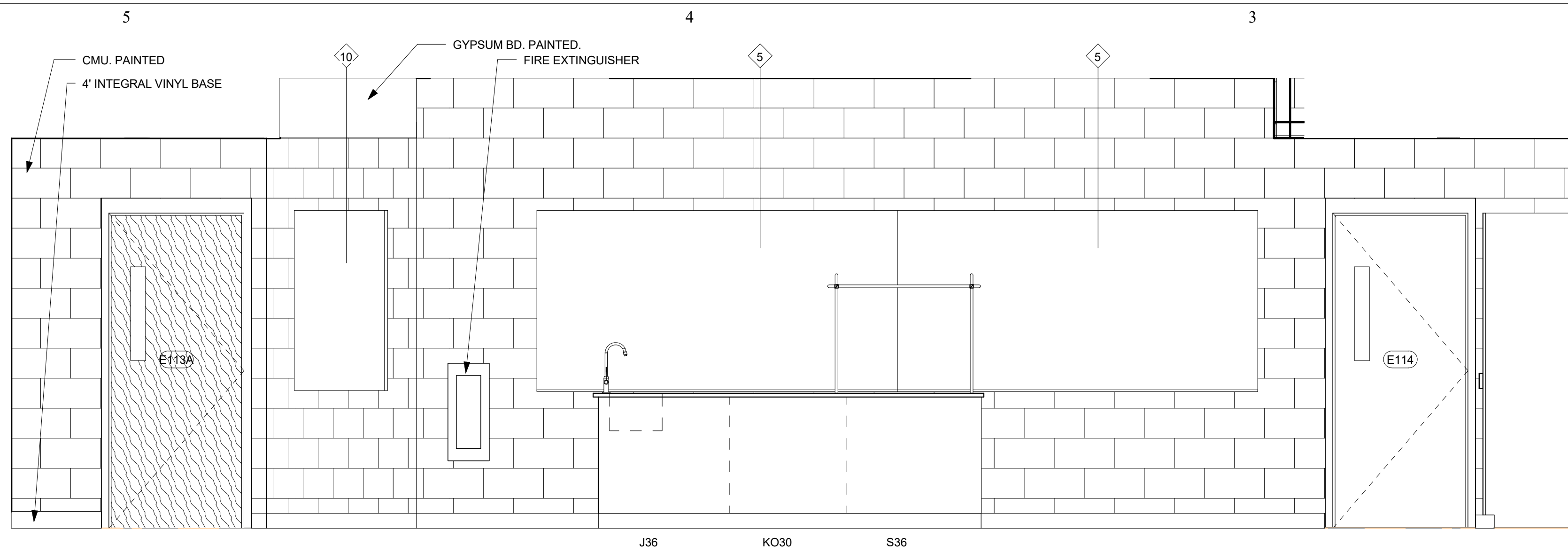
Project Address:
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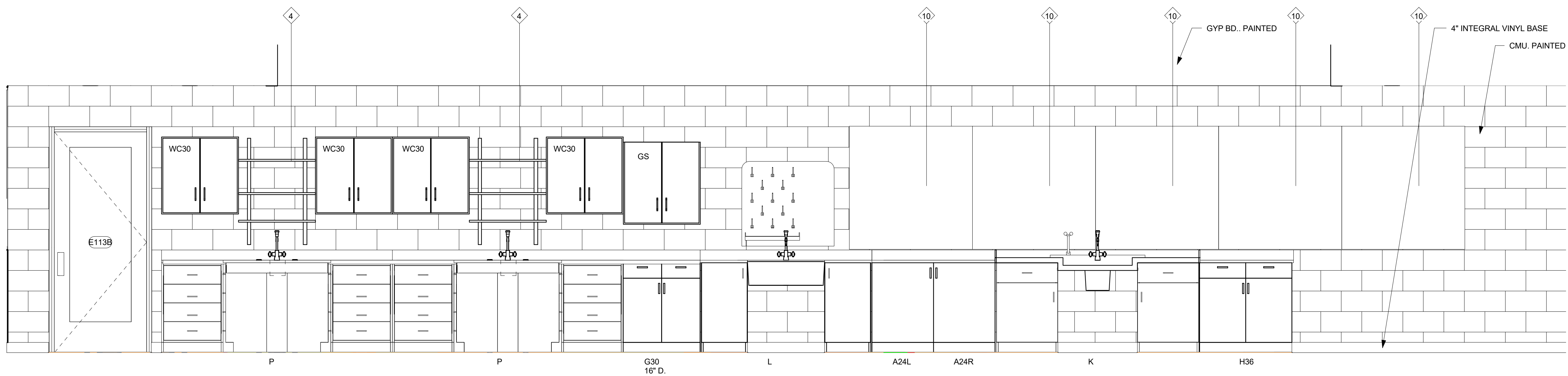
LAB CASEWORK ELEVATIONS

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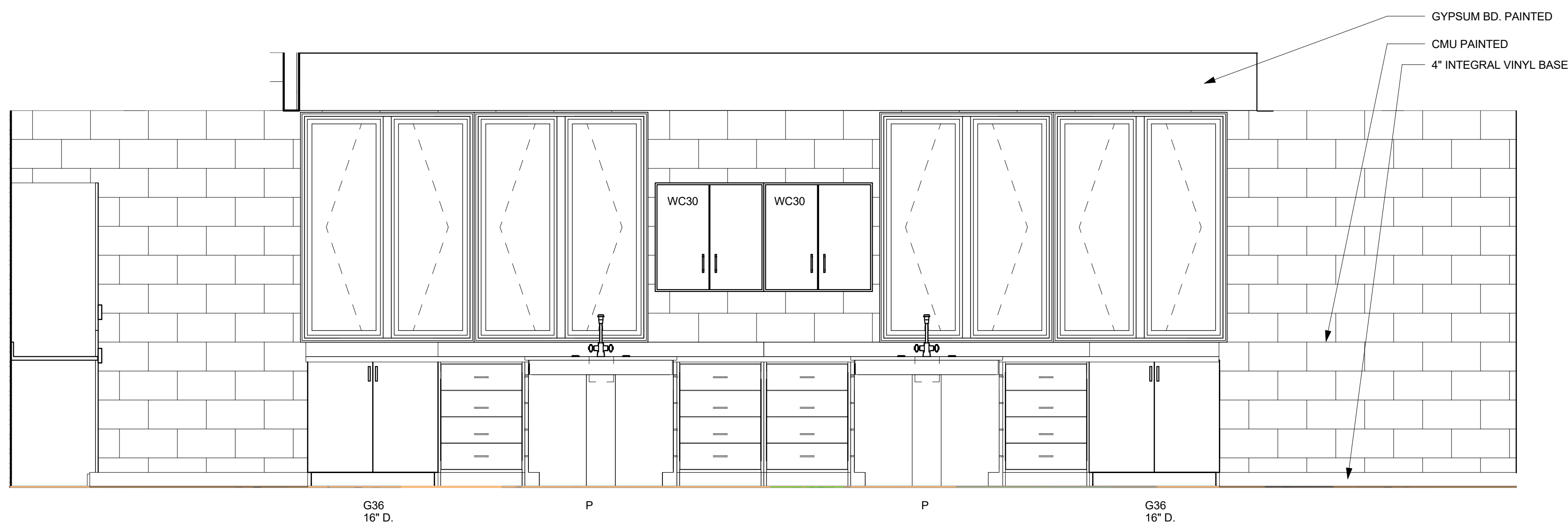
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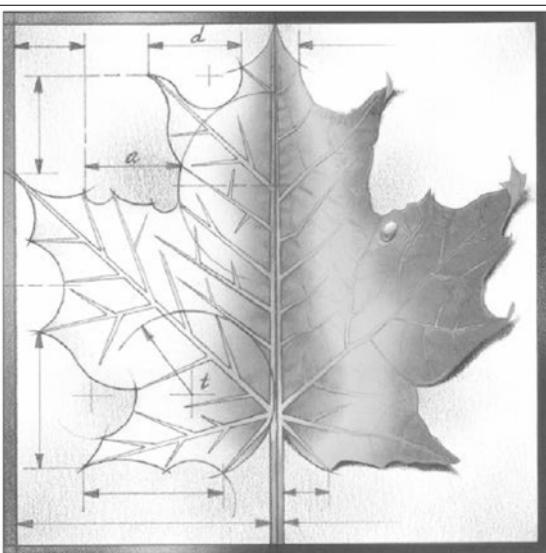
1 NORTH WALL - SCIENCE LAB E113
LF 3.06 1/2" = 1'-0"



2 WEST WALL - SCIENCE LAB E113
LF 3.06 1/2" = 1'-0"



3 SOUTH WALL - SCIENCE LAB E113
LF 3.06 1/2" = 1'-0"



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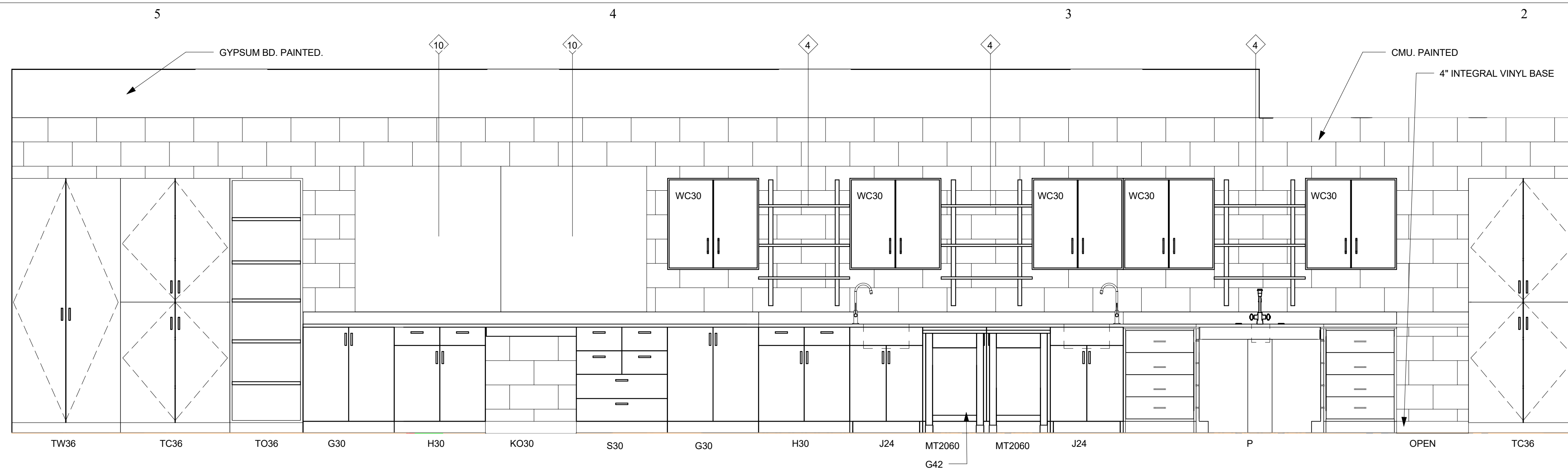
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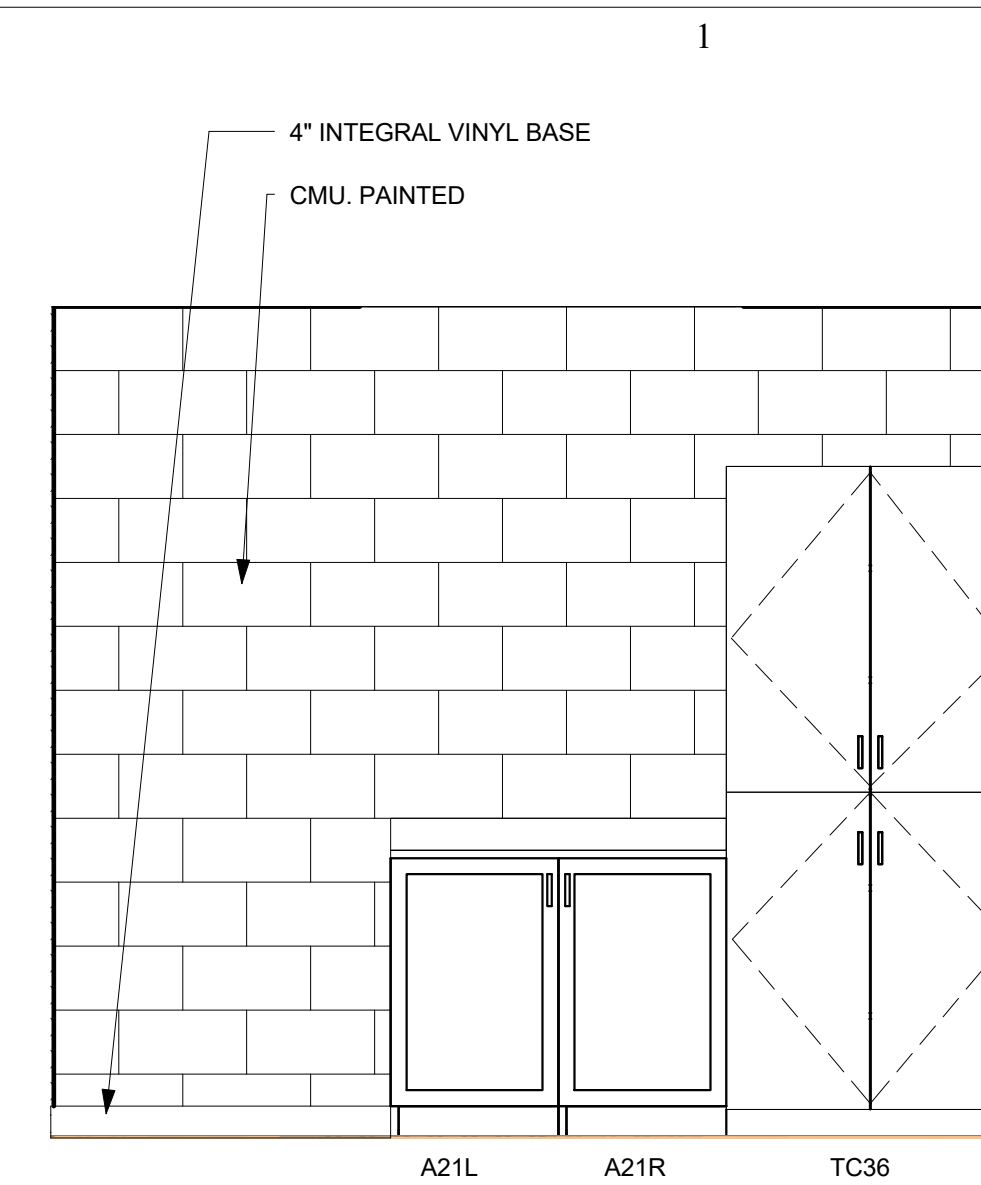
LAB CASEWORK ELEVATIONS

Sheet: **LF 3.06**

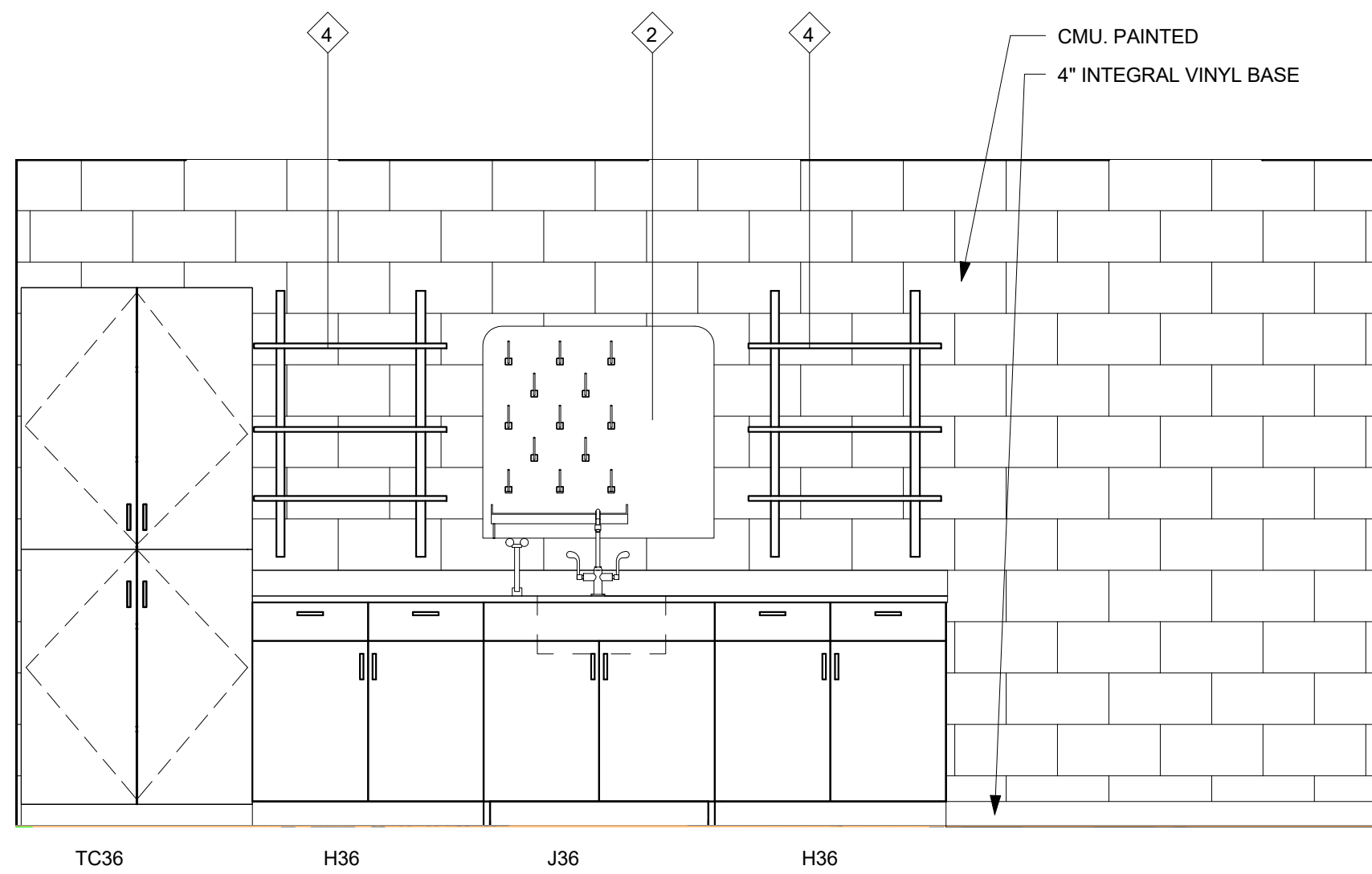
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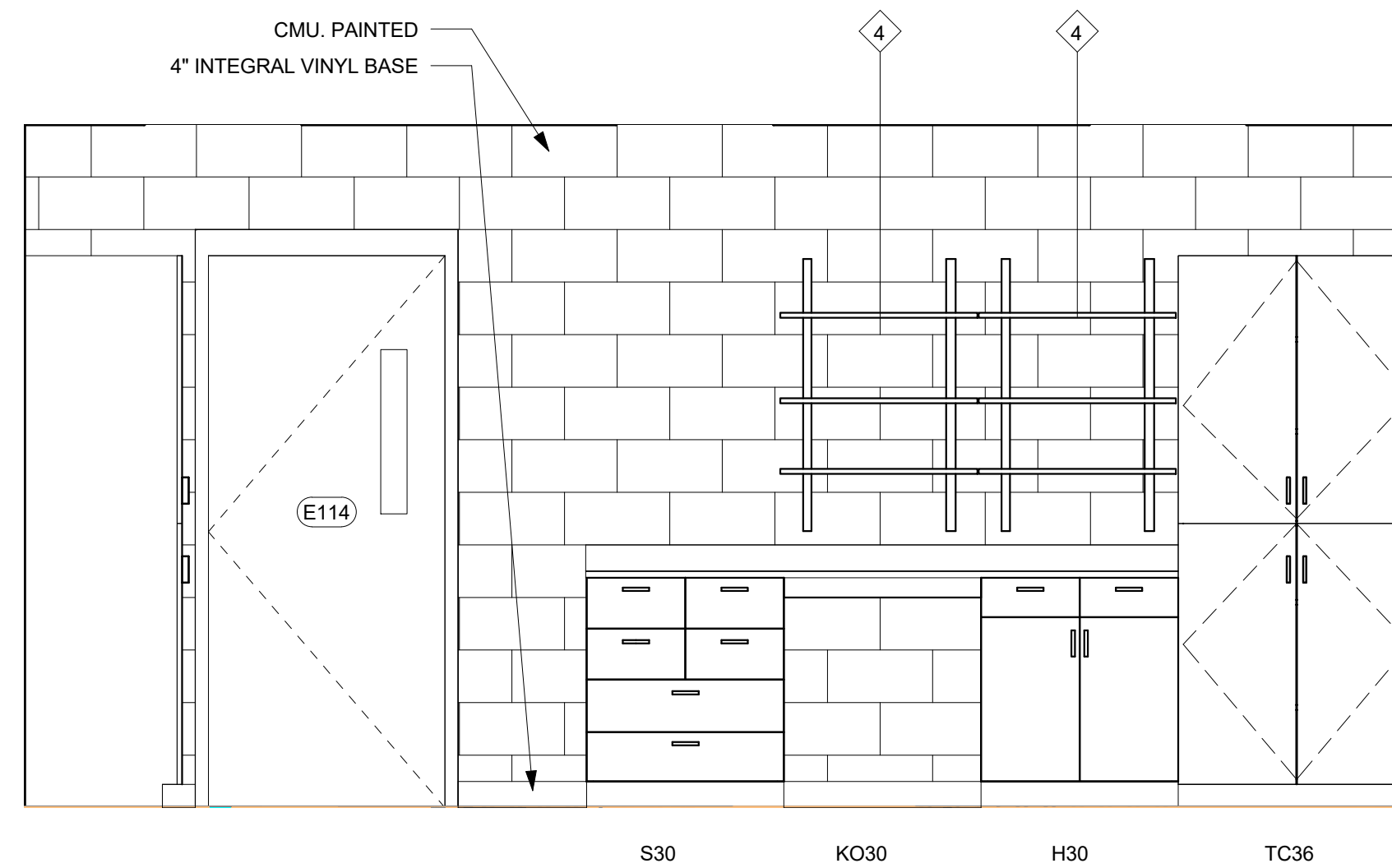
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LF 3.07
1/2" = 1'-0"



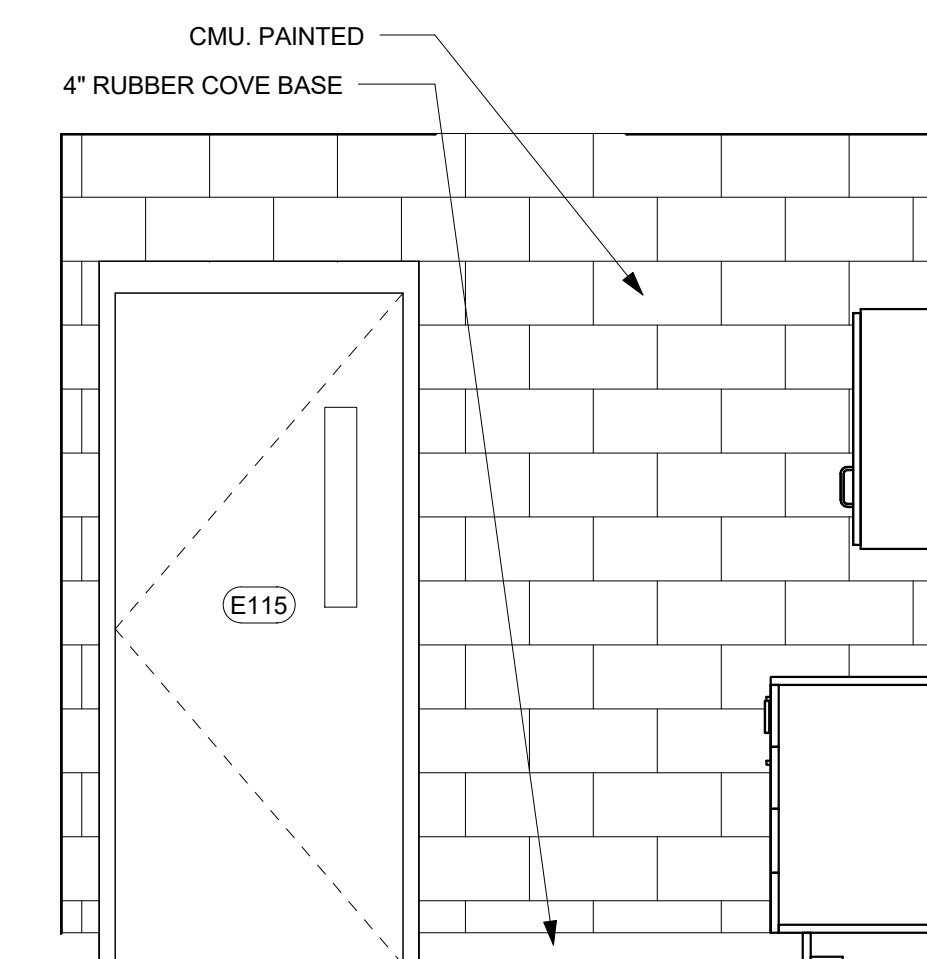
2 EAST WALL - PREP ROOM E114
LF 3.07
1/2" = 1'-0"



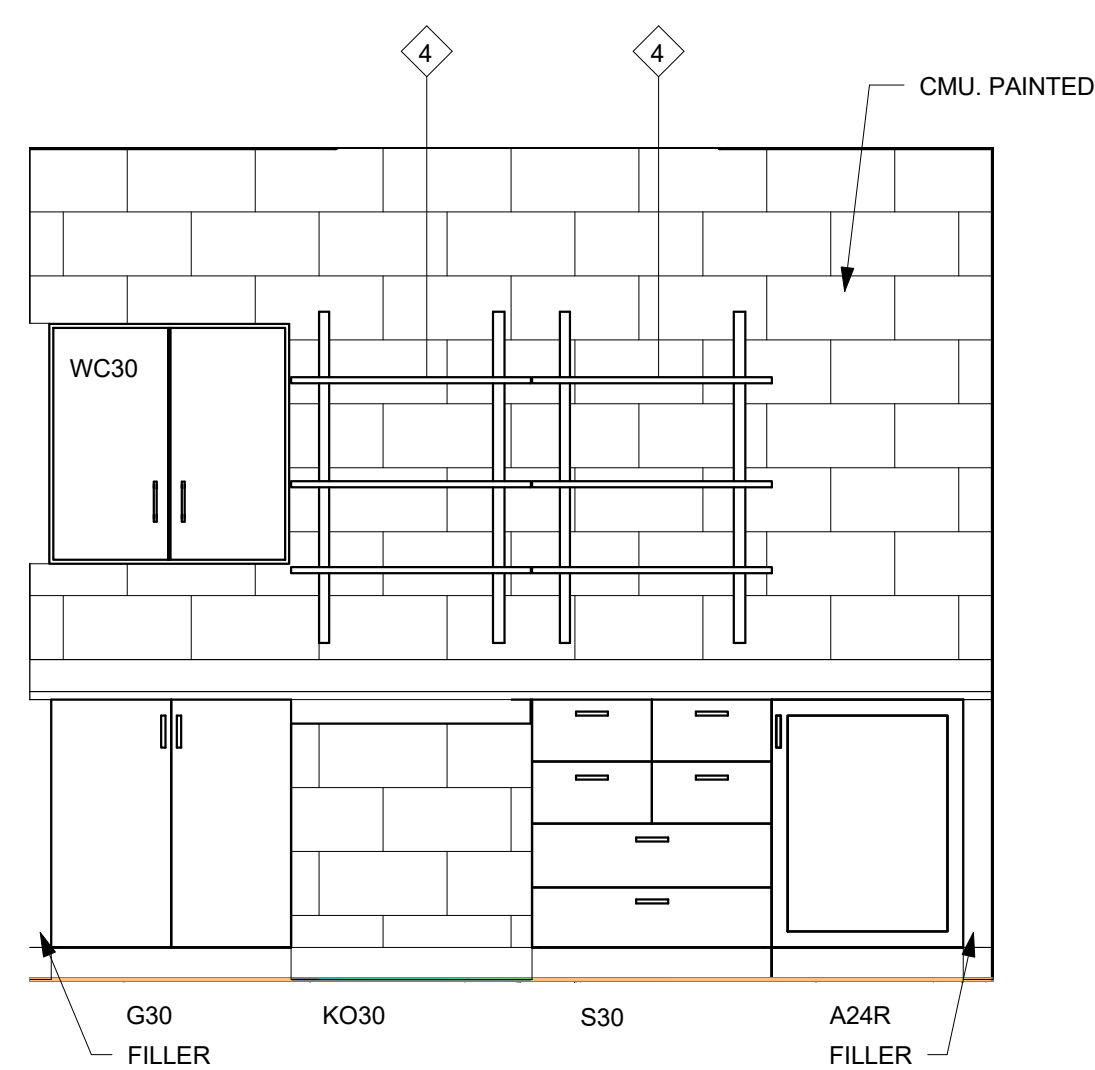
3 NORTH WALL - PREP ROOM E114
LF 3.07
1/2" = 1'-0"



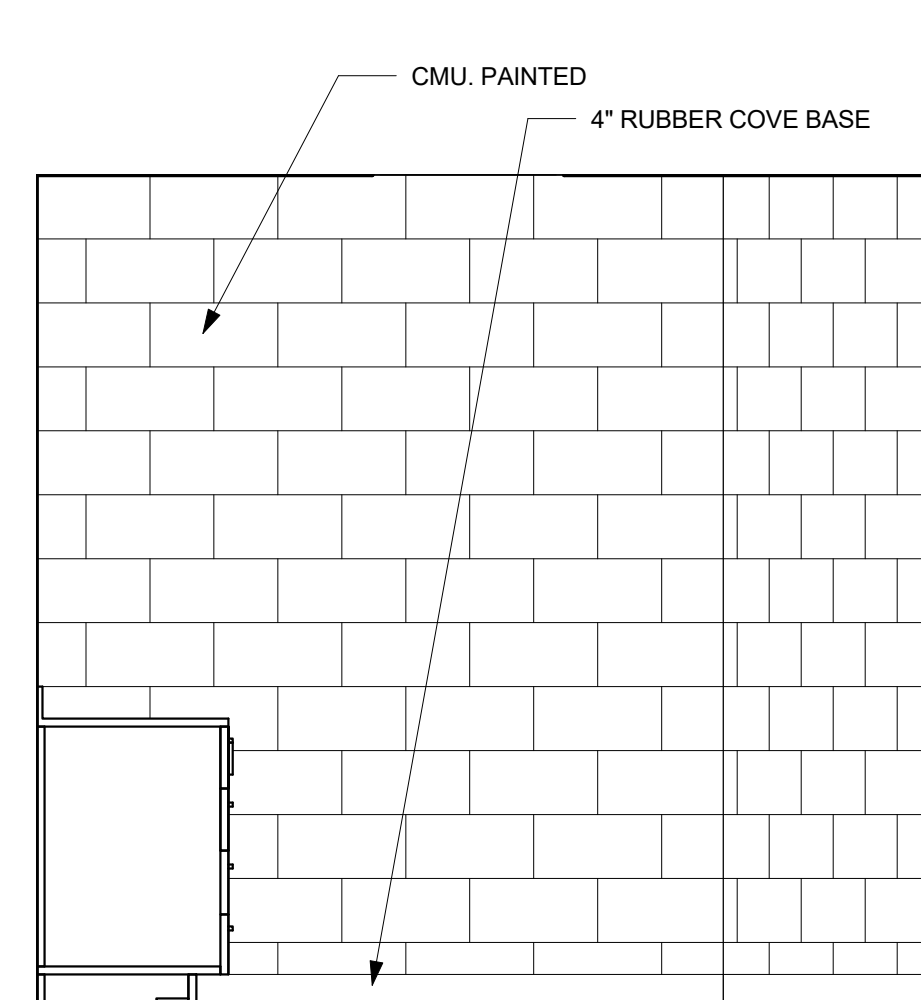
4 SOUTH WALL - PREP ROOM E114
LF 3.07
1/2" = 1'-0"



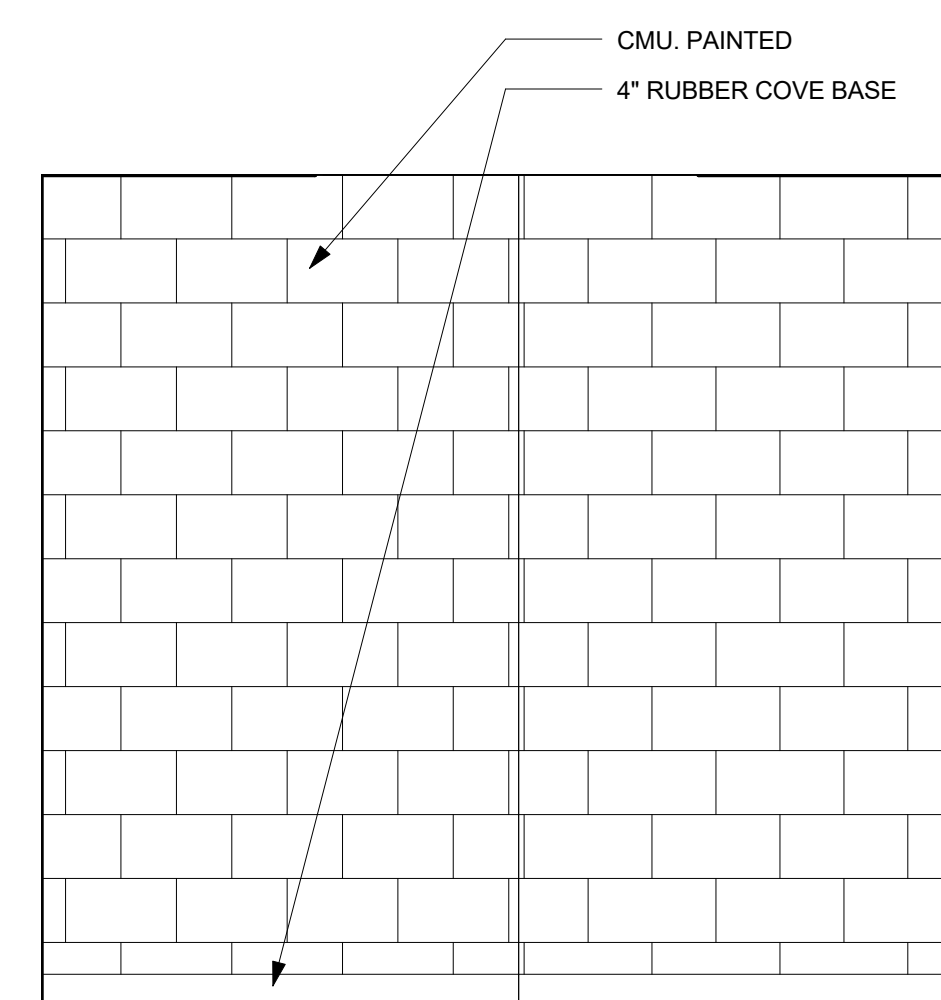
5 NORTH WALL - WORK ROOM E115
LF 3.07
1/2" = 1'-0"



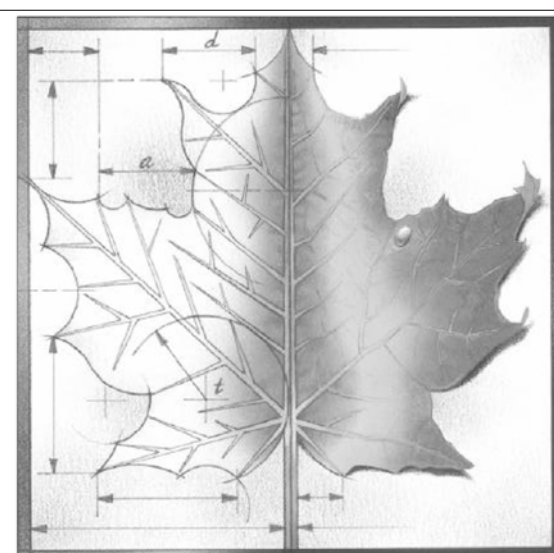
6 EAST WALL - WORK ROOM E115
LF 3.07
1/2" = 1'-0"



7 SOUTH WALL - WORK ROOM E115
LF 3.07
1/2" = 1'-0"



8 WEST WALL - WORK ROOM E115
LF 3.07
1/2" = 1'-0"



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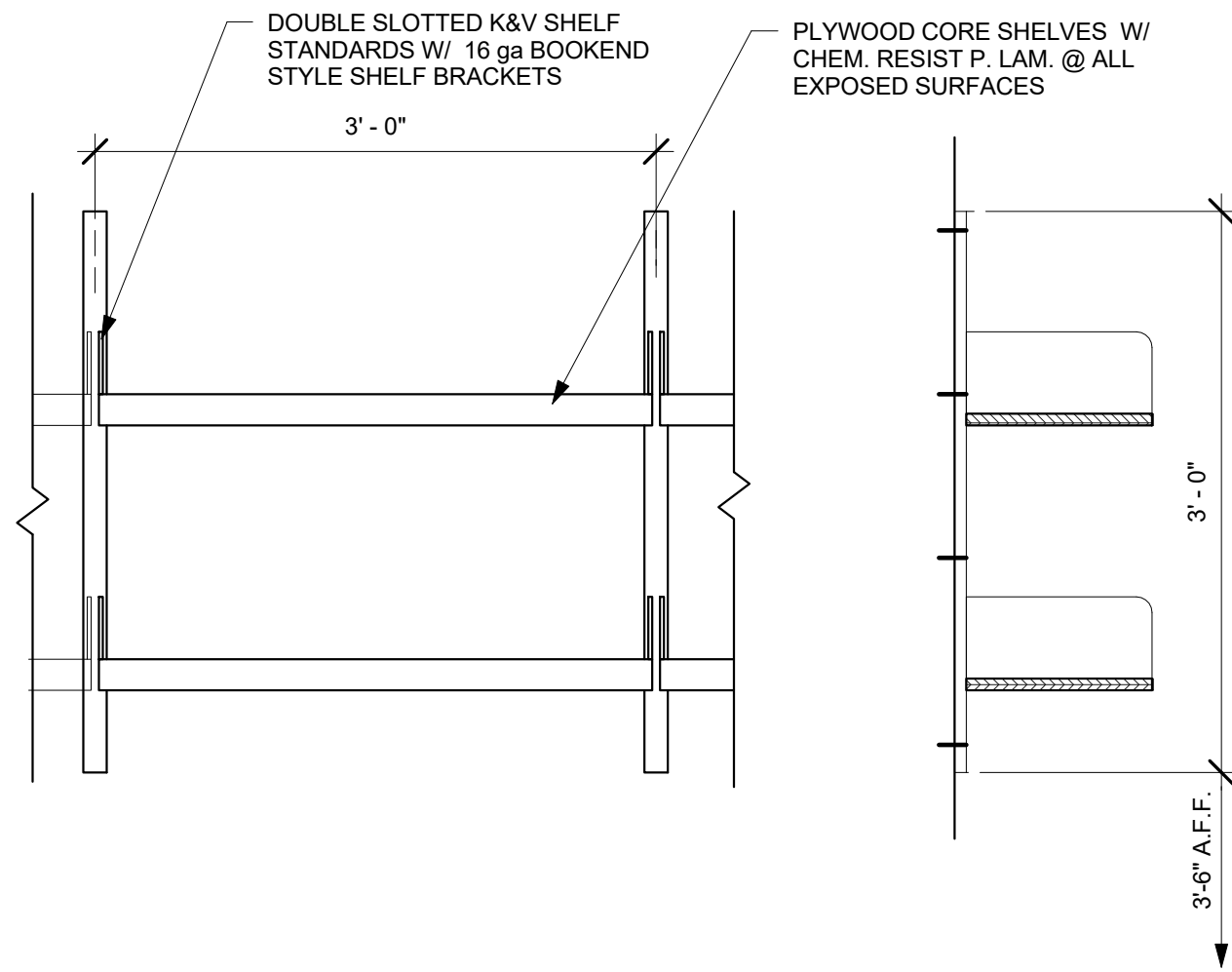
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WAMEGO, KS 66547

Sheet Title:

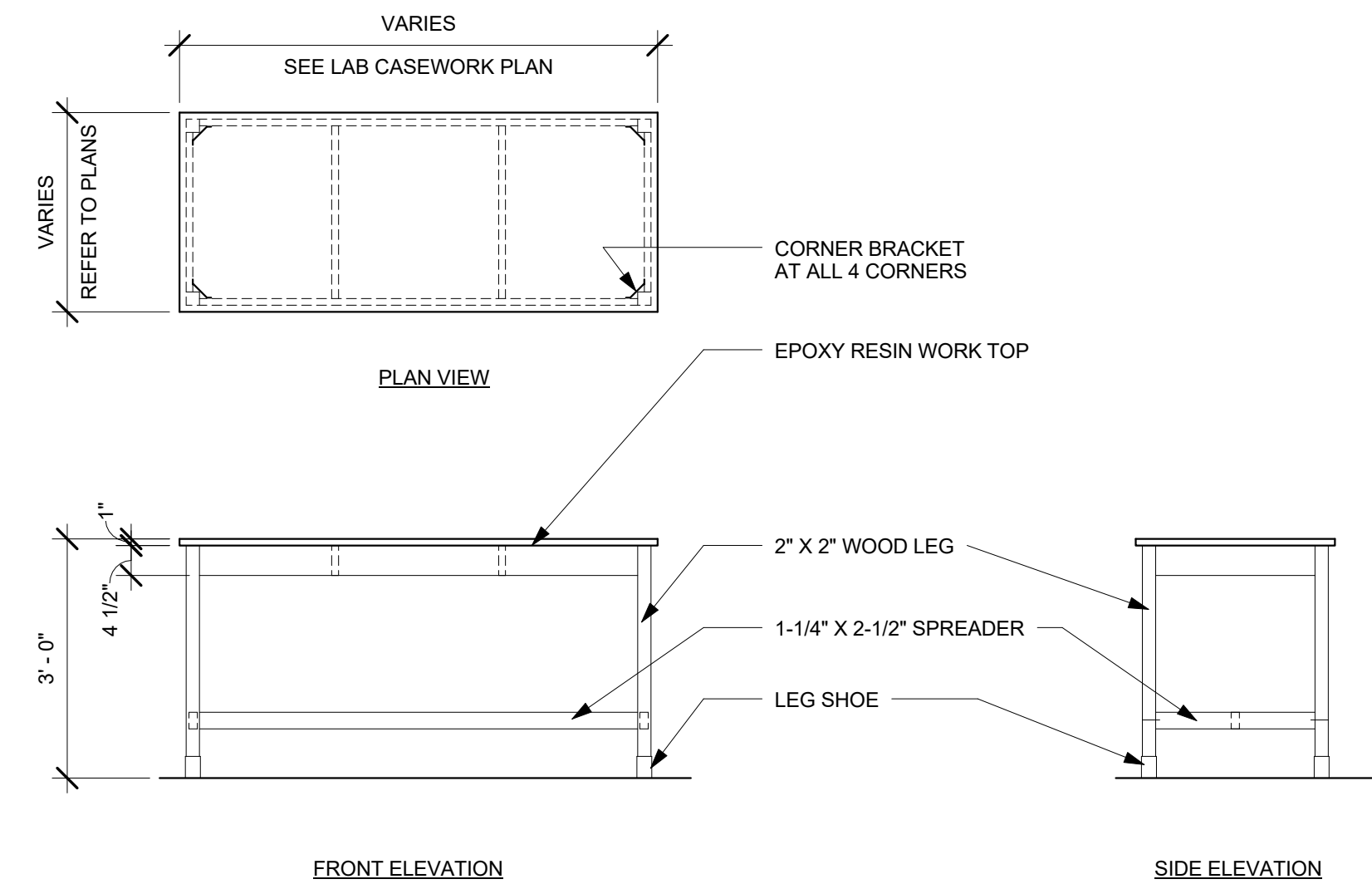
LAB CASEWORK ELEVATIONS

Sheet: **LF 3.07**

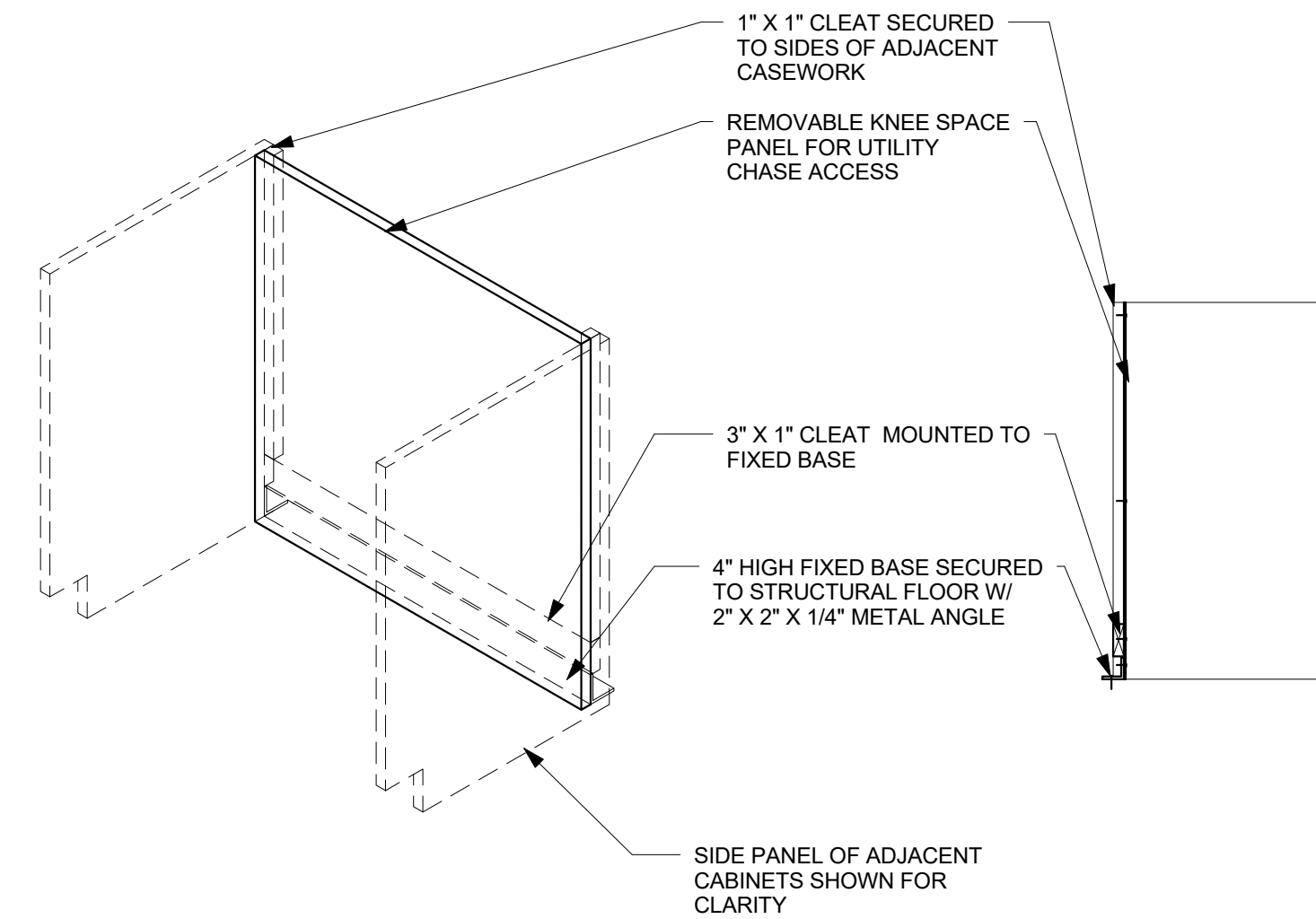
OF:



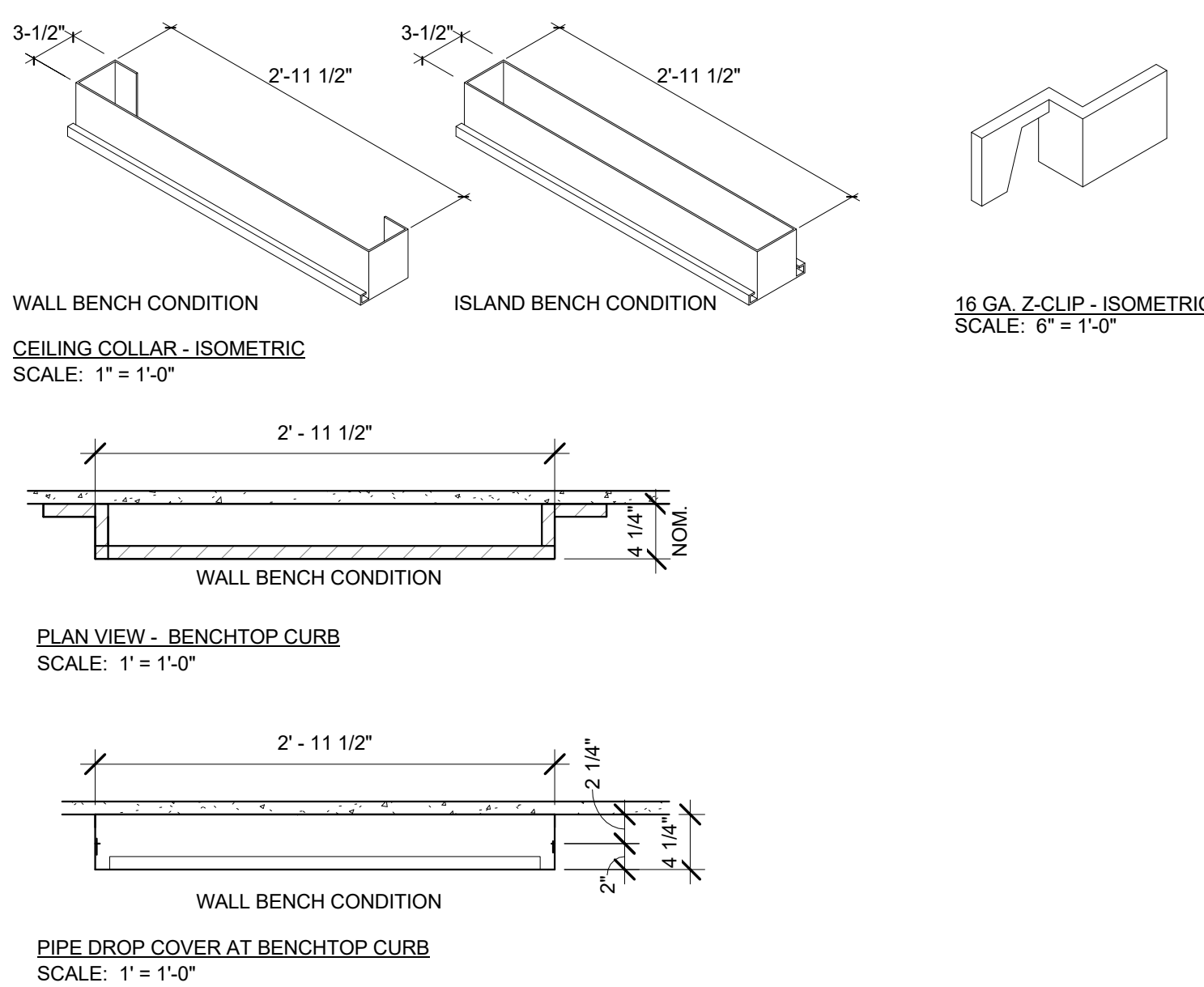
1 ADJUSTABLE WALL SHELVING
LF 4.0
1" = 1'-0"



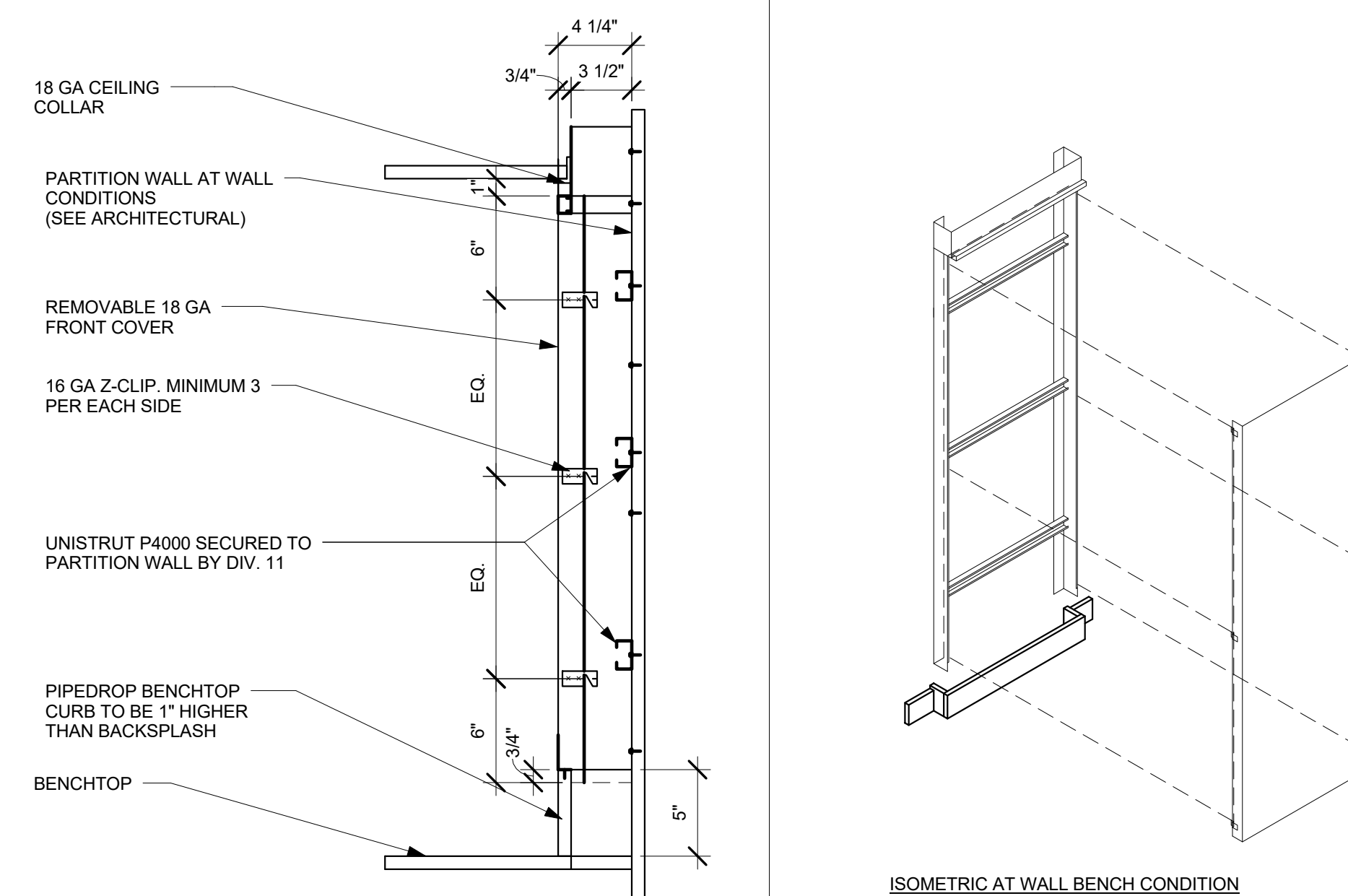
2 MOVEABLE LABORATORY TABLE
LF 4.0
1/2" = 1'-0"



3 REMOVABLE KNEE SPACE PANEL
LF 4.0
3/4" = 1'-0"

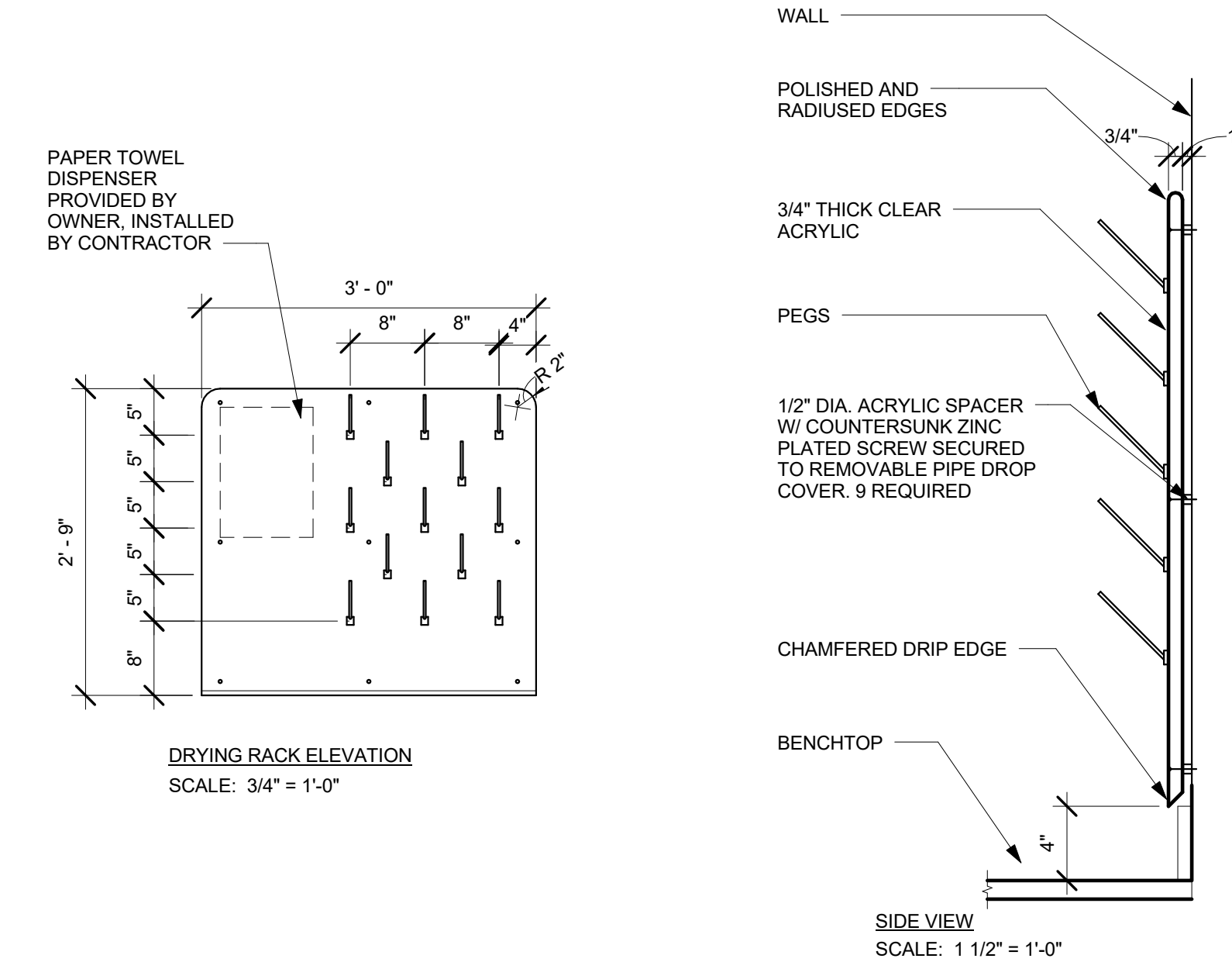


4 PIPE DROP ENCLOSURE
LF 4.0
1" = 1'-0"

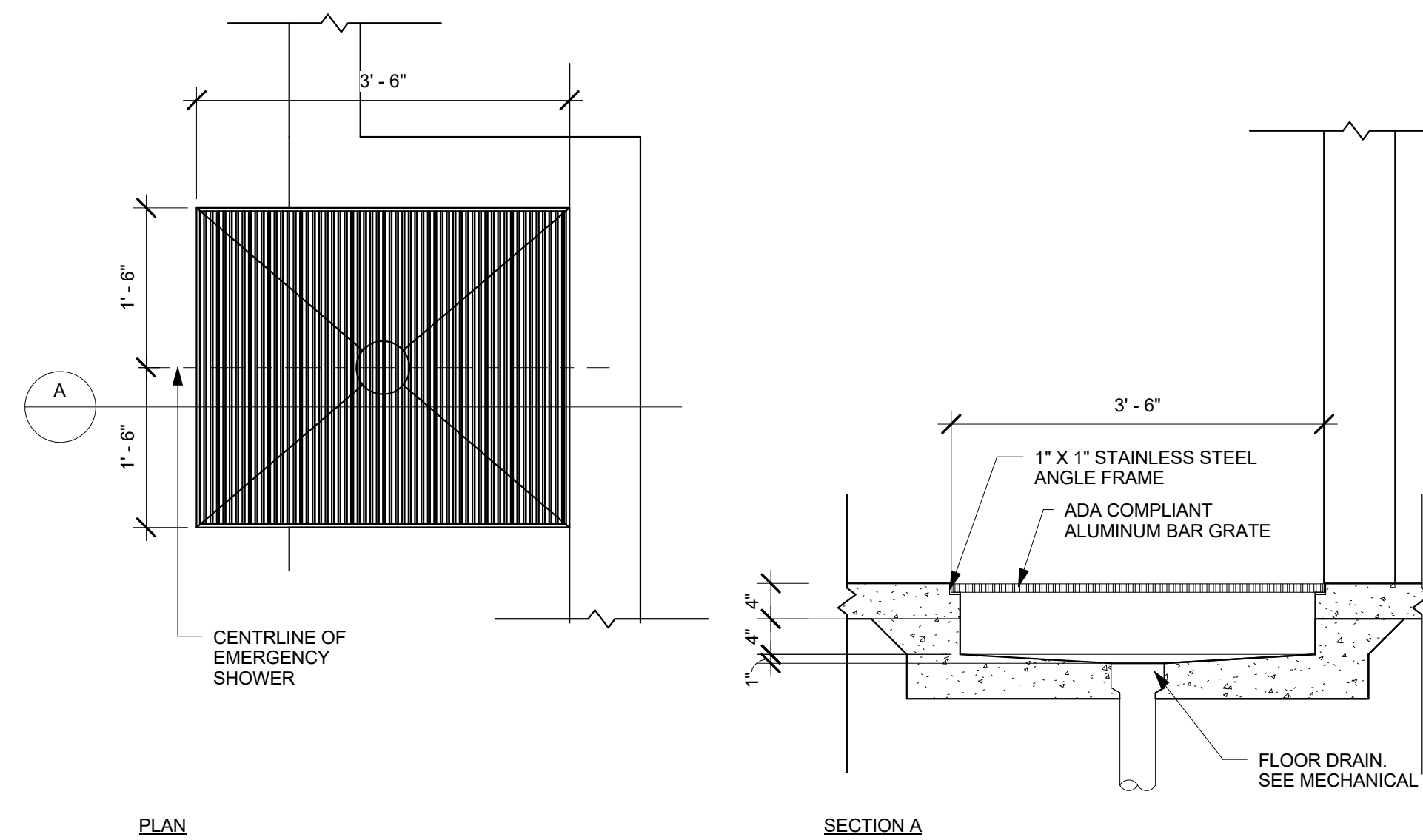


5 PIPE DROP SECTION
LF 4.0
1 1/2" = 1'-0"

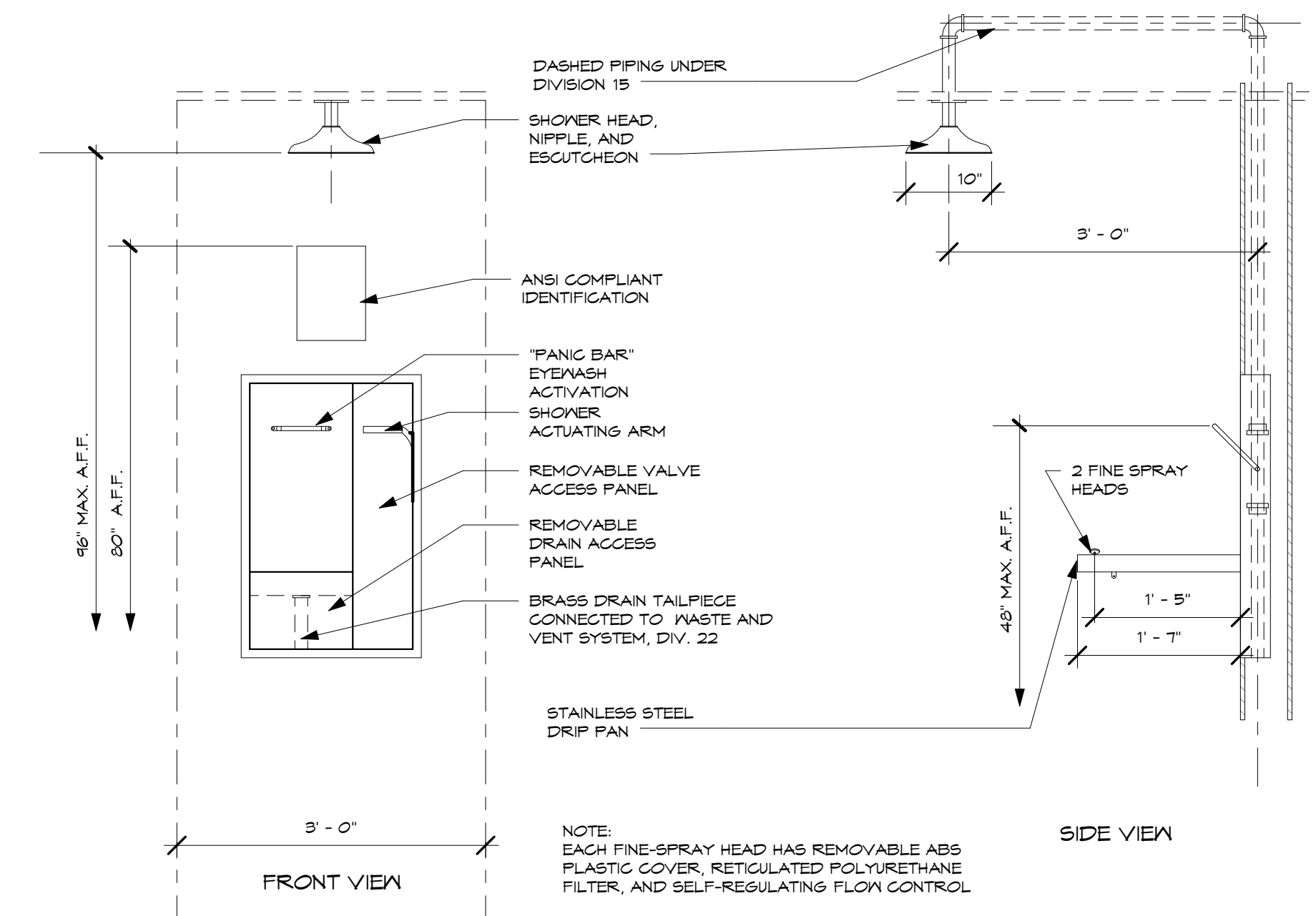
6 Pipe Drop Enclosure
LF 4.0
1/2" = 1'-0"



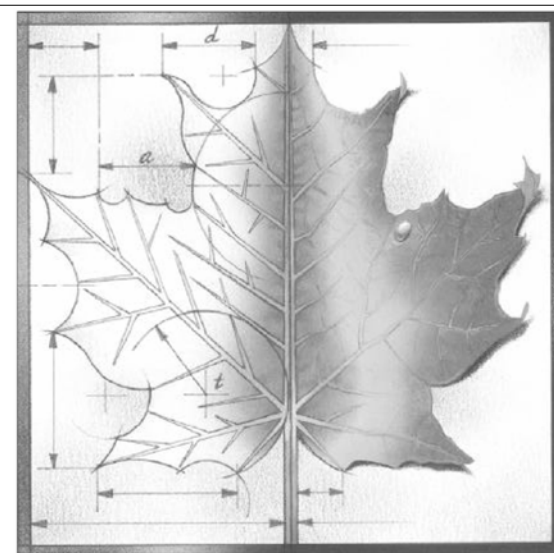
7 ACRYLIC DRYING RACK
LF 4.0
3/4" = 1'-0"



8 FLOOR DRAIN BASIN AT SAFETY SHOWER
LF 4.0
3/4" = 1'-0"



9 SAFETY SHOWER / EYEWASH UNIT
LF 4.0
3/4" = 1'-0"



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Information provided on the drawings regarding existing conditions has been obtained from the best source available, but cannot be guaranteed in all respects. Contractor shall verify all such information prior to proceeding with any new work that may be affected. Include as part of the contract all work required to produce the indicated result. All drawings and written material appearing herein constitute the original and unpublished work of the Architect, and same may not be duplicated, used or disclosed without the written consent of the Architect.

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REVISIONS:

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Project Number: 16036

Date: 11/28/17

Project Name:

USD 320 WAMEGO MIDDLE SCHOOL SCIENCE ROOM ADDITION

Project Address:
1701 KAW VALLEY ROAD
WAMEGO, KS 66547

Sheet Title:

LAB FURNISHINGS DETAILS

Sheet:
LF 4.01

OF: