

ADDENDUM NO. 02

January 17, 2020

Murrieta Mesa High School New Classroom Building – DSA 04-118451 MURRIETA VALLEY UNIFIED SCHOOL DISTRICT

Project No. 02132020
DSA No. 04-118451
File No. 33-H18

The following changes, omissions, and/or additions to the Project Manual and/or Drawings shall apply to proposals made for and to the execution of the various parts of the work affected thereby, and all other conditions shall remain the same.

Careful note of the Addendum shall be taken by all parties of interest so that the proper allowances may be made in strict accordance with the Addenda, and that all trades shall be fully advised in the performance of the work which will be required of them.

Bidder shall acknowledge receipt of this Addenda in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

In case of conflict between Drawings, Project Manual, and this Addenda, this Addenda shall govern.

GENERAL NOTE

- 1) Bid date and time and submission location remain unchanged, as noted in the bid documents.

BID SCOPE CLARIFICATIONS

1) BNDS ADDENDUM NO. 02 – CALCULATIONS

a. STRUCTURAL CALCULATIONS

Bid Package No. 06, Bid Package No. 10, Bid Package No. 13 –

The following supplemental Structural Calculations have been issued:

1. Building Lettering
2. Building Logo

2) BNDS ADDENDUM NO. 02 - ARCHITECTURAL DRAWINGS

a. SHEET NO. A5.1, A9.3, A9.20 REVISED

Bid Package No. 06, Bid Package No. 10, Bid Package No. 13 –

The following Addendum ("AD") Drawings are issued:

1. Drawing A5.1: Revise currently issued drawing per AD2-A05.
2. Drawing A9.3: Revise currently issued drawing per AD2-A06
3. Drawing A9.20: Revise currently issued drawing per AD2-A07.

3) BNDS ADDENDUM NO. 02 – MECHANICAL DRAWINGS

a. SHEET NO. M0.5, M2.1, M2.2, M6.1 REVISED

Bid Package No. 15 –

The following Addendum ("AD") Drawings are issued:

1. Drawing M0.5: Revise currently issued drawing per AD2-M01.
2. Drawing M2.1: Revise currently issued drawing per AD2-M02.
3. Drawing M2.2: Revise currently issued drawing per AD2-M03.
4. Drawing M6.1: Revise currently issued drawing per AD2-M04.

4) BNDS ADDENDUM NO. 02 – PLUMBING DRAWINGS

a. SHEET NO. P0.3 REVISED

Bid Package No. 14 –

The following Addendum (“AD”) Drawings are issued:

1. Drawing P0.3: Revise currently issued drawings per AD2-P01.

PRE-BID REQUESTS FOR INFORMATION

1. PB 001 BOLLARD PLACEMENT:

Bid Package No. 01 –

Question

1. Drawing Sheet A1.1 at the east side of the building shows 8 Bollards each at the location of the Trash Bin Storage Area. Please provide dimensions off the building for the placement of the bollards in both directions: East from the buildings, East Wall & North from the SE building corner. **Solution:** Place far enough away from building to avoid the 9'-0" wide grade beam.

2. Drawing Sheet S1.1.1 between Gridlines C3 & B3 on Gridline 7 refers to a Grade Beam 9'-0" wide x 4'-0" deep with the Top of Grade Beam at -1'-3" below Finished Floor. Please reference Detail 6/S7.1 for additional information. Will this Grade Beam be in conflict with the bollard placement and embedment depth as referenced on Drawing Sheets A1.1 and 5/A1.3? Please review and advise. **Solution:** Place bollard centers 1'-0" past the edge of the 9'-0" wide grade beam.

3. Drawing Sheet A1.1 at the South side of the building shows 4 bollards each. What will be the required dimension of the building for the placement of the Bollards in both directions: South from the buildings, South Wall & East from the SE Building corner as a starting point. This information will be required for the Underground Site Utilities coordination and correct Bollard Placement. **Solution:** Place the Bollards the same distance of the South wall as they will be placed off of the East wall.

Response

See addendum AD1; Bollards on East side of building are to be spaced 4'-0" O.C.

2. PB 002 Logo Sign Electrical Rough-in:

Bid Package No. 10, Bid Package No. 13 –

Question

Drawing Sheet A5.1 Detail 2 South elevation between Gridlines 5 & 7 shows the MMHS Logo Sign which refers to the "Perimeter Channel Lighting". The Electrical Drawing Sheet E2.2 at Gridlines 6 & C2 refers to Keynote 6. Keynote 6 references a Lighting Type S3. Additionally, the Electrical Drawing Sheet E2.3 Lighting Fixture Schedule shows Fixture S3 as "Green Rubber Coated Linear LED Lighting Tape". Will a single point Junction Box be sufficient at the Signs perimeter, Or will additional Junction Box locations be required for illuminating the RAM's Horn And Face features? This would avoid visual surface mounted electrical runs between the Sign features. Please advise. **Solution:** Add additional rough-in Junction Box locations in the field area of the RAM Logo if required.

Response

The green LED lighting is only required around the outside perimeter of the RAM logo sign

3. PB 003 Floor Drain Fire Riser Room D112:

Bid Package No. 01, Bid Package No. 14 –

Question

Drawing Sheet P2.1 Plumbing Underground Plan-Waste does not reflect a Floor Drain within the Fire Riser Room D112. Will a Floor Drain be required in the Fire Riser Room? **Solution:** Add a Floor Drain to the center of the room and slope a ¼ inch per foot from all walls to the drain.

Response

See addendum AD1; There is a floor sink (FS-1) called out on the approved Plumbing plan on sheet P2.1. The plumbing fixture schedule on sheet P0.3 provides the description of the floor sink. The location of the floor sink has been shown on the Architectural floor plan per addendum AD1-01.

4. PB 004 Pilaster Sheathing Type:

Bid Package No. 01, Bid Package No. 02, Bid Package No. 06 –

Question

Drawing Sheet S1.1.1 at Gridlines 2.1 & 2.2 on South of Gridline A2 shows that there are two (2) Pilasters, each has a W12x136 Steel Column; however, Drawing Sheet A2.1 Floor Plan Level at this same location, the Pilasters reference Detail 4/A9.4 which references Details 2 & 3/S8.2. Detail 3/S8.2 references face of sheathing. Is this sheathing 5/8" Exterior Gypsum Sheathing? **Solution:** Add 5/8" Exterior Gypsum Sheathing with attachment notes, Or please provide a wall type.

Response

See addendum AD1.

5. PB 005 CMU Wall Gap Distance East Side of Building:

Bid Package No. 01 –

Question

Drawing Sheet A1.1 at the East side of the building references Detail 7/A1.3 CMU Site Fence-Gap (Plan View). What will be the required gap between the East building wall and the new CMU wall end? **Solution:** Provide a 2" gap that can either caulk with backer rod top and sides or leave open. Please review and advise.

Response

See addendum AD1.

6. PB 007 DDC Control Panel per AD2-M01:

Bid Package No. 13, Bid Package No. 15 –

Question

The new added note 7 on Sheet AD2-M01 per Addendum 2 calls for a DDC Control Panel; however, this is not called out in the Mechanical Schedules or defined in the Specifications. Please review and advise.

Response

See Specification Section 230923 issued in Addendum 3.

7. PB 008 Building Lettering / Logo Details:

Bid Package No. 06, Bid Package No. 08, Bid Package No. 10, Bid Package No. 13 –

Question

Please provide the following information and/or clarification to the plan documents:

1. Building Logo calls for a 1/4" anodized aluminum panel, painted dark bronze; however, there's no specification for Dark Bronze Paint. Please note that the dimensional letter signage specification appears to call for anodized aluminum lettering with integral color, not paint.
2. Building signage Detail 7.5/A9.20 per AD2-A07 calls for a painted copper penny. Please advise if this is the intended color and provide specification.
3. The metal plate at stanchion on Detail 11/A9.20 per AD2-A07 doesn't call for paint, but stanchion does. Please review and advise.

Response

1. Building logo and building name signage are both entirely custom. Colors noted on the details from Addendum 2 are the ones used on the existing signage that already occur around the campus, the fabricator is to match these colors.
2. Specification section 10419 *Dimensional Letter Signage* will be omitted in upcoming Addendum 4 as the lettering will be custom.
3. The metal plate and stanchion shall be painted to match the color of the surface it is mounted to.

8. PB 010 FDC and PIV Clarification:

Bid Package No. 01, Bid Package No. 11, Bid Package No. 13, Bid Package No. 14 –

Question

Bid Package #14 'Plumbing' includes all site utilities including the site fire system. The Civil drawings do not indicate any new site fire water work; however, the new site fire work is indicated on sheet FP-1.1 including the new building service and new fire hydrant. Sheet FP-1.1 only indicates a new fire service to the building, but does not indicate a PIV or FDC assembly. Please confirm that a FDC and PIV is not required for this project. If required, please provide location, detail and make and model.

Response

Confirmed, PIV / FDC assembly is not required on the underground fire service piping portion. See detail #1 on sheet FP-4.0, the fire sprinkler riser detail is provided with a gate valve and wall mounted PIV.

END OF ADDENDUM NUMBER 02

ADDENDUM 02 ATTACHMENTS:

SPECIFICATIONS:

N/A

DRAWINGS:

42 X 30

1. AD2-A05
2. AD2-A06
3. AD2-A07
4. AD2-M01
5. AD2-M02
6. AD2-M03
7. AD2-M04
8. AD2-P01

OTHER:

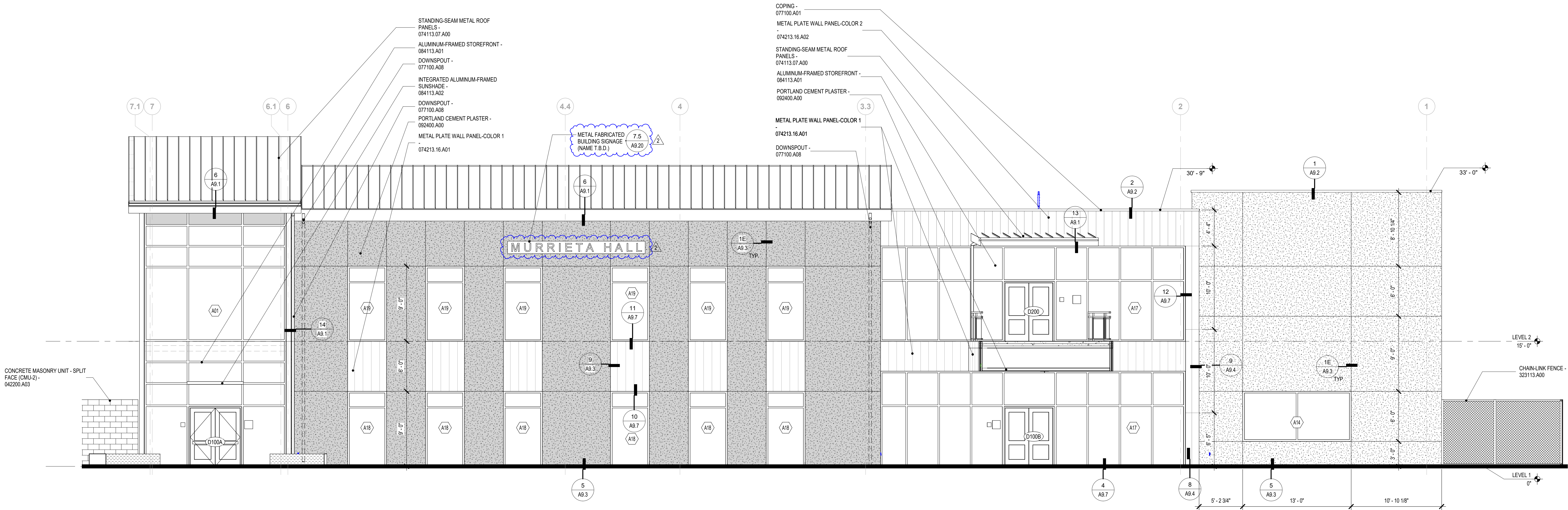
1. STRUCTURAL CALCULATIONS (3-8.5X11 PAGES)
2. PLUMBING CUT SHEET REPLACEMENTS FOR DRINKING FOUNTAIN DF-1 AND HOSE BIBB HB-2



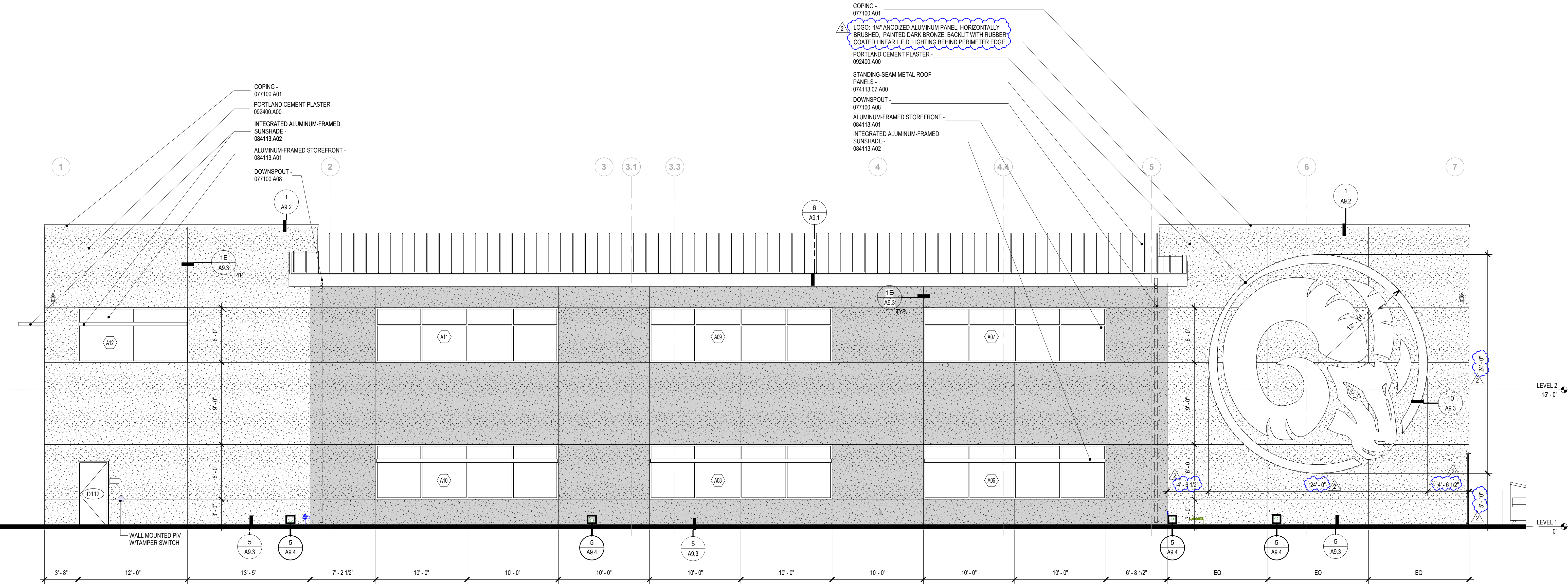
MURRIETA VALLEY USD
MURRIETA MESA HIGH SCHOOL
NEW CLASSROOM BUILDING

KEYNOTES

042200.A03	CONCRETE MASONRY UNIT - SPLIT FACE (CMU-2)
074113.07.A00	STANDING-SEAM METAL ROOF PANELS
074213.16.A01	METAL PLATE WALL PANEL-COLOR 1
074213.16.A02	METAL PLATE WALL PANEL-COLOR 2
077100.A01	COPING
077100.A08	DOWNSPOUT
084113.A01	ALUMINUM-FRAMED STOREFRONT
084113.A02	INTEGRATED ALUMINUM-FRAMED SUNSHADE
092400.A00	PORTLAND CEMENT PLASTER
323113.A00	CHAIN-LINK FENCE



1 NORTH ELEVATION
A2.1 3/16" = 1'-0"



2 SOUTH ELEVATION
A2.1 3/16" = 1'-0"

LEGEND

	PAINTED PORTLAND CEMENT PLASTER, COLOR A - 092400.A00 CONTROL JOINT PER 092400.D07, SEE DETAIL 1A/A9.3
	PAINTED PORTLAND CEMENT PLASTER, COLOR B - 092400.A00 CONTROL JOINT PER 092400.D07, SEE DETAIL 1A/A9.3
	METAL PLATE WALL PANEL - 074213.16.A00 REFER TO ELEVATION CALLOUT FOR COLOR

NOTES:

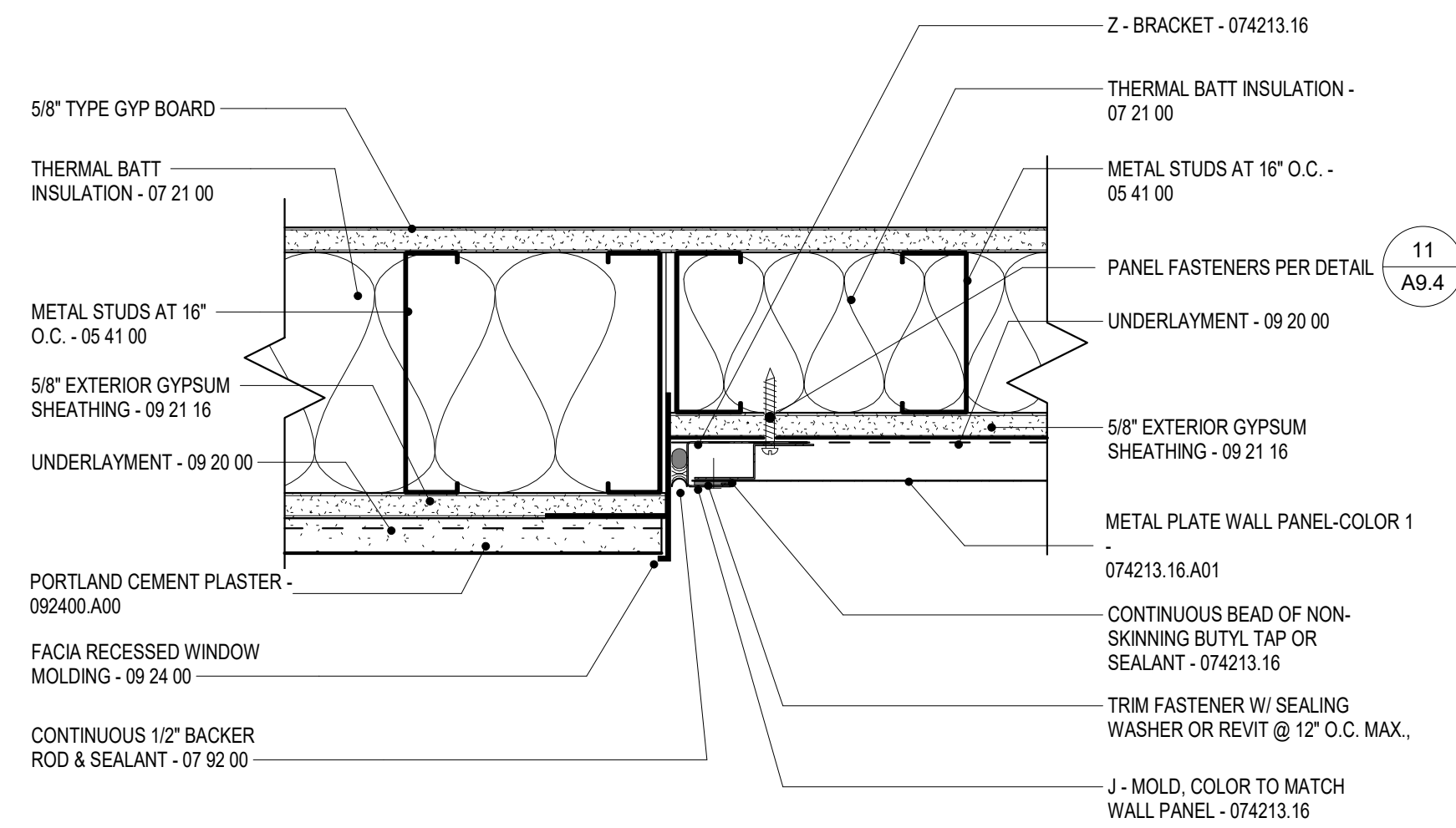
- REFERENCE SHEET A9.3 FOR PLASTER ACCESSORIES.
- WINDOW SYSTEMS AND INTEGRATED ALUMINUM-FRAMED SUNSHADES ARE SUBJECT TO DEFERRED APPROVAL.

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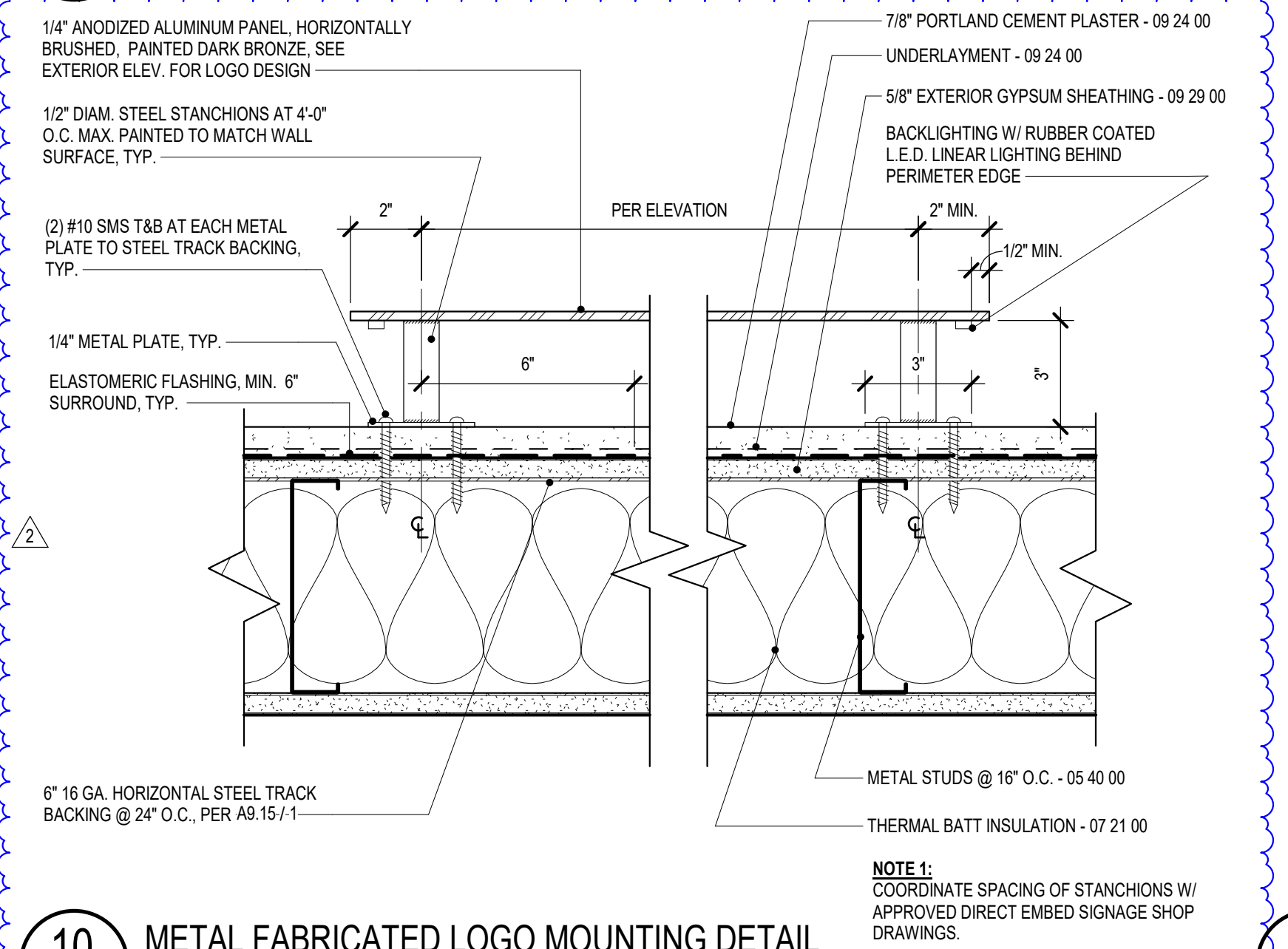
BLDG. D4
EXTERIOR ELEVATIONS

NO. 2 DATE 1/17/2020 ISSUE Revision 2 PROJECT NO: 17028-00 DATE: 11/12/2019

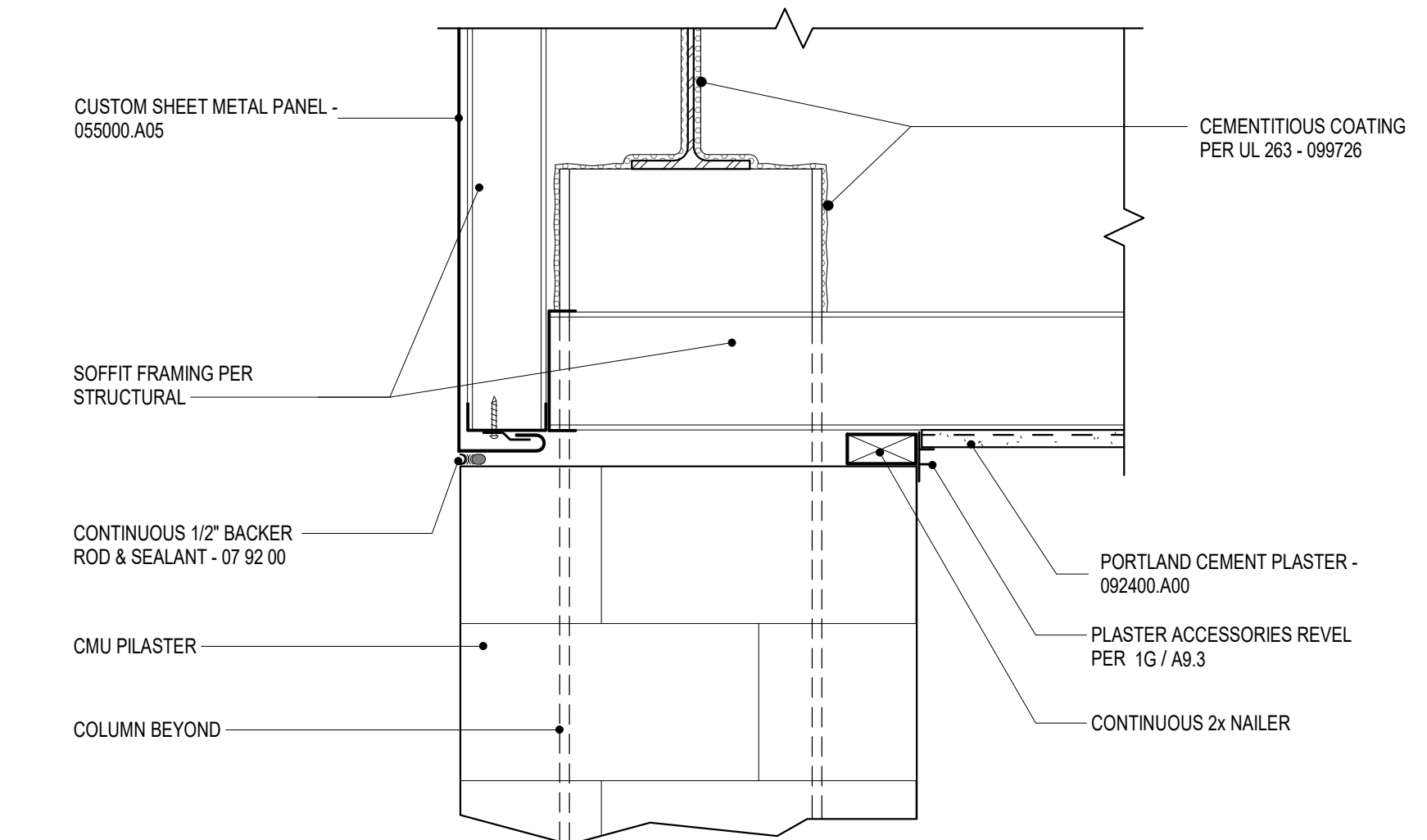
DRAWING
A5.1
AD2-A05



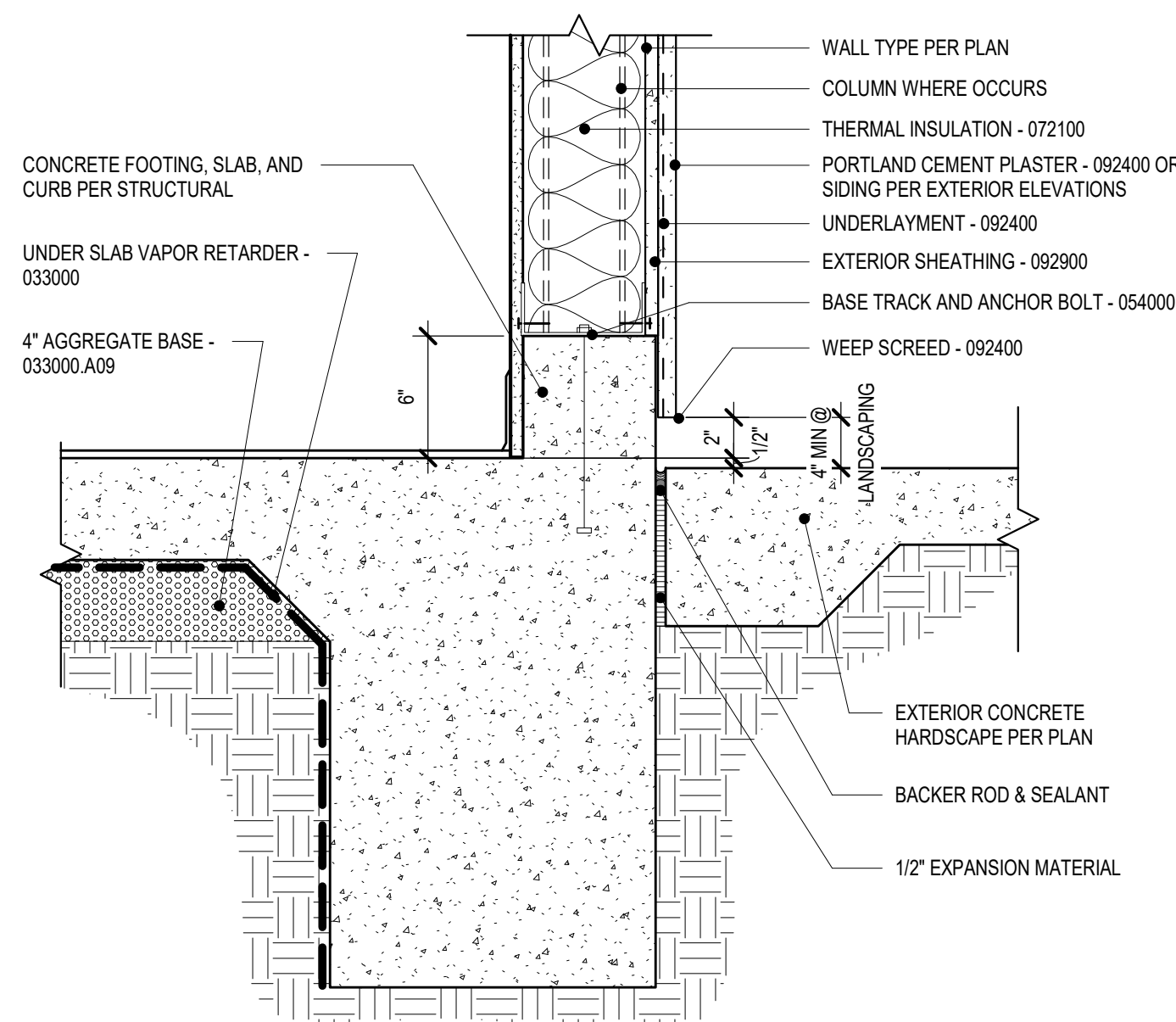
9 EXT. - WALL TRANSITION AT ALUMINUM PANEL WALL
A5.1 3" = 1'-0"



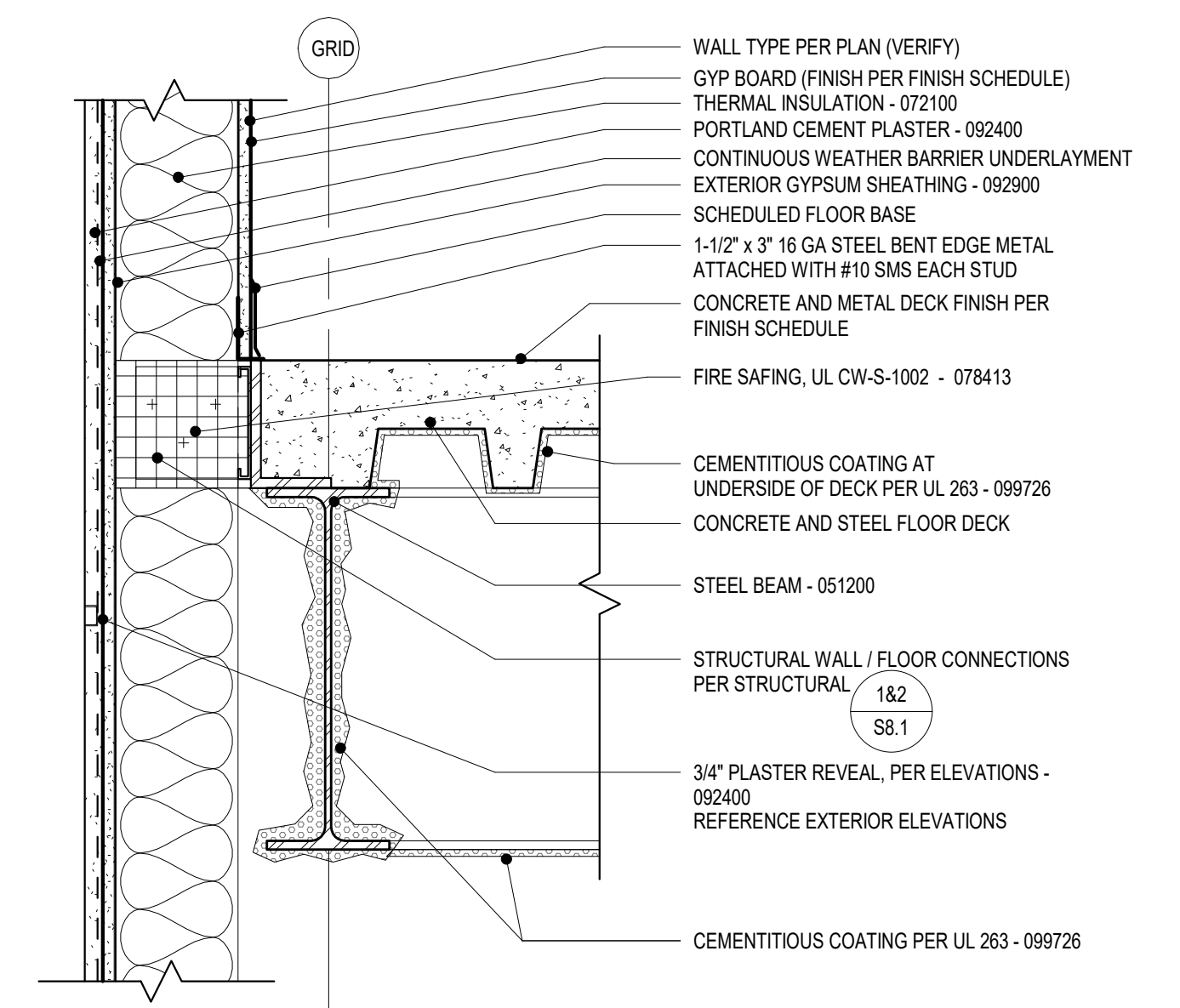
10 METAL FABRICATED LOGO MOUNTING DETAIL
A5.1 3" = 1'-0"



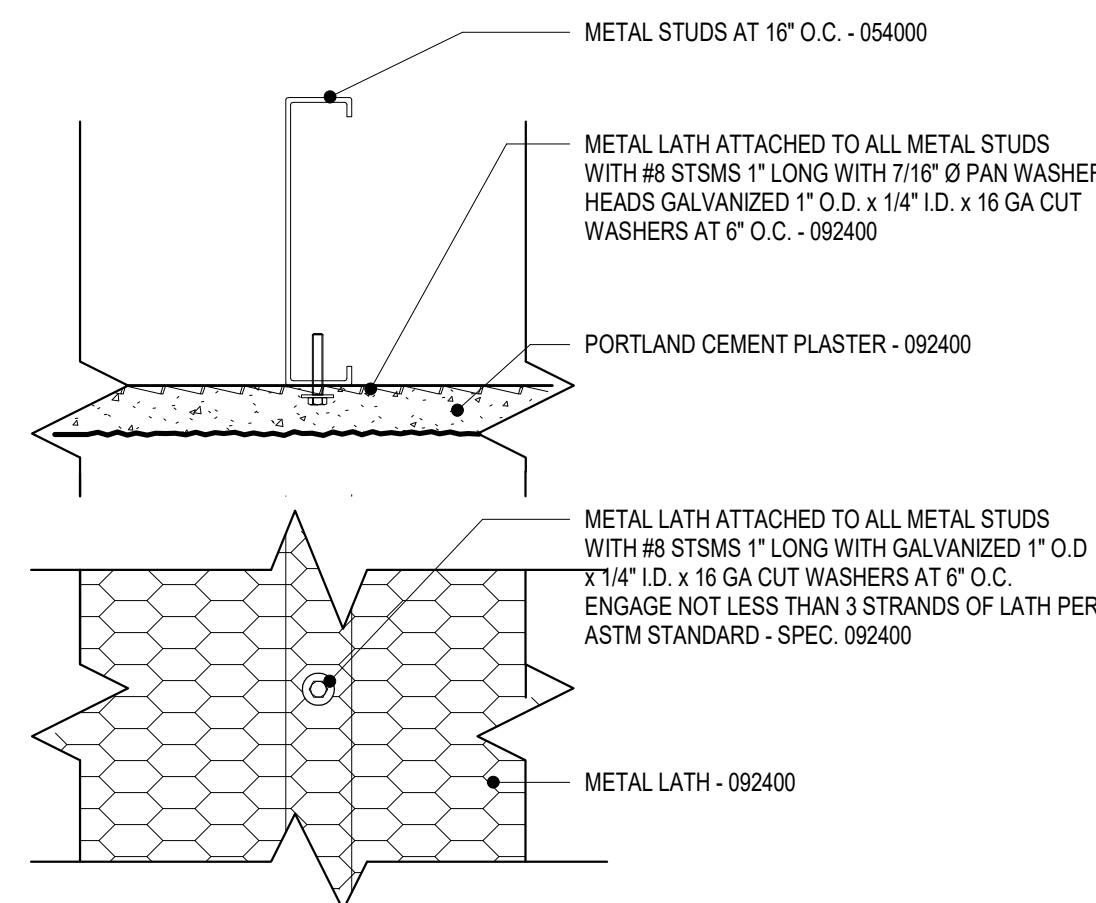
11 METAL WALL PANEL TERMINATION AT CMU PILASTER
A2.2 1 1/2" = 1'-0"



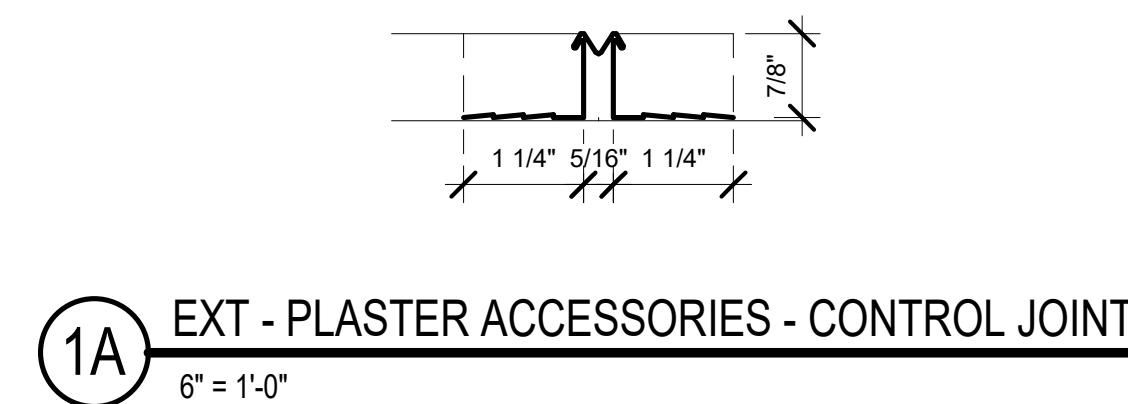
5 EXTERIOR FRAMED WALL @ CURB
A5.1 1 1/2" = 1'-0"



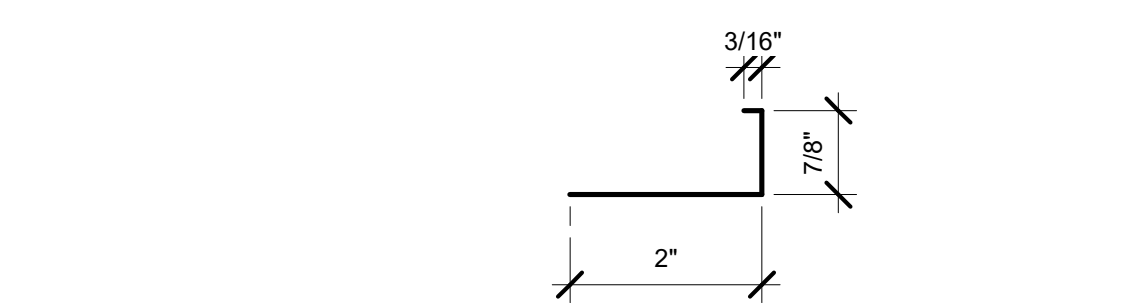
6 EXT - FLOOR / WALL CONNECTION
A6.1 1 1/2" = 1'-0"



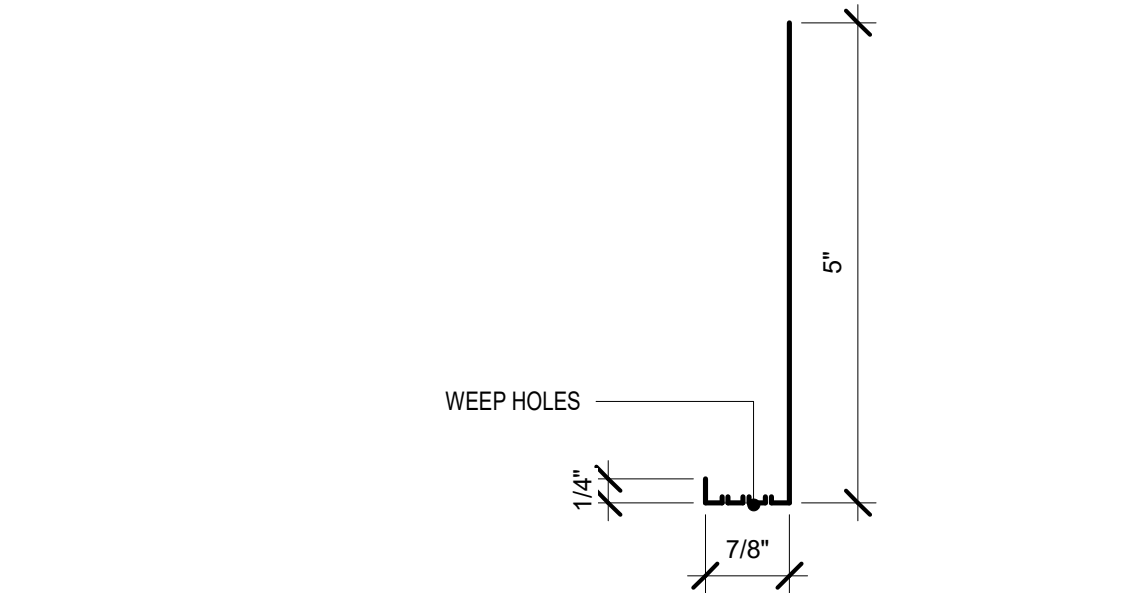
7 EXT - CEMENT PLASTER SOFFIT
A9.1 3" = 1'-0"



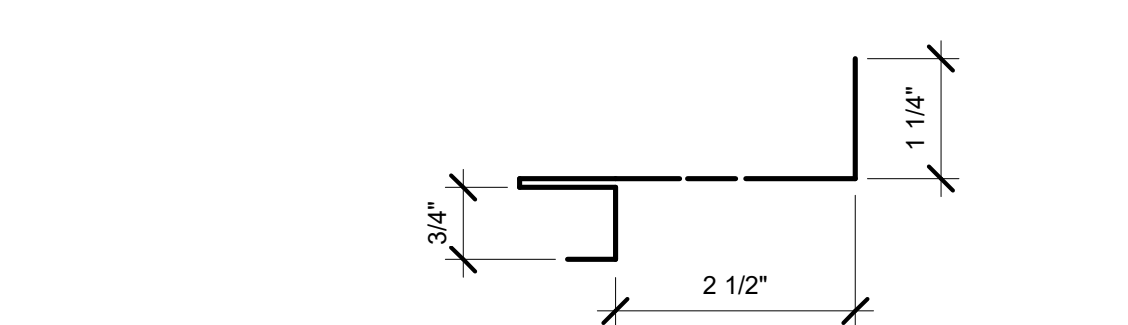
1A EXT - PLASTER ACCESSORIES - CONTROL JOINT
6" = 1'-0"



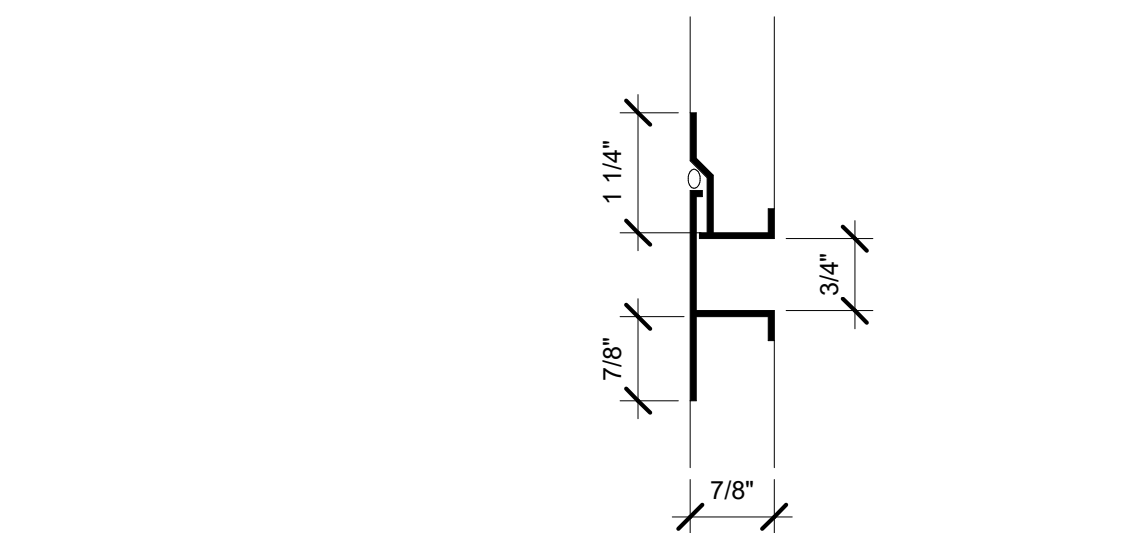
1B EXT - PLASTER ACCESSORIES - J MOLDING
6" = 1'-0"



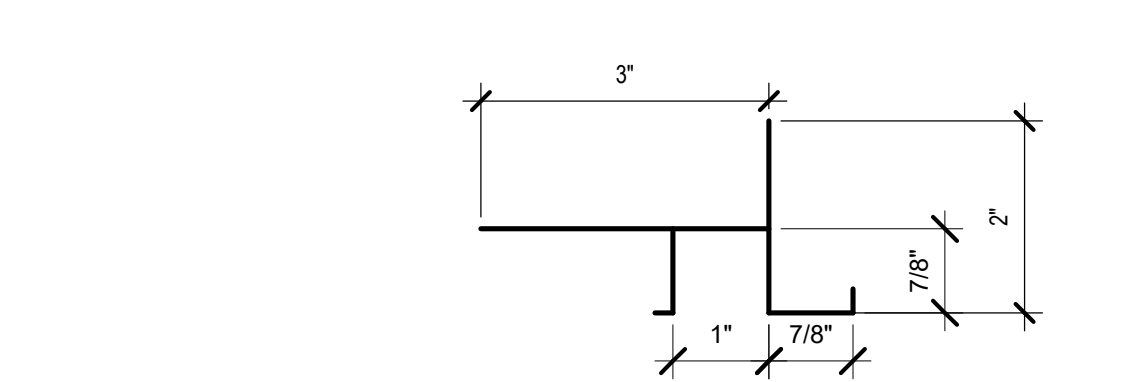
1C EXT - PLASTER ACCESSORIES - WEEP SCREED
6" = 1'-0"



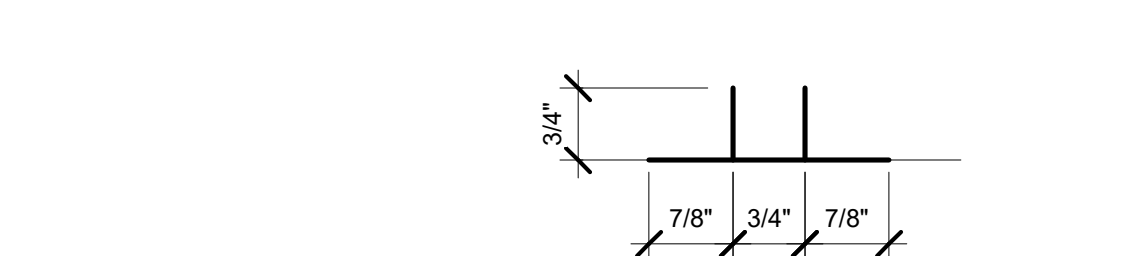
1D EXT - PLASTER ACCESSORIES - SOFFIT VENT
6" = 1'-0"



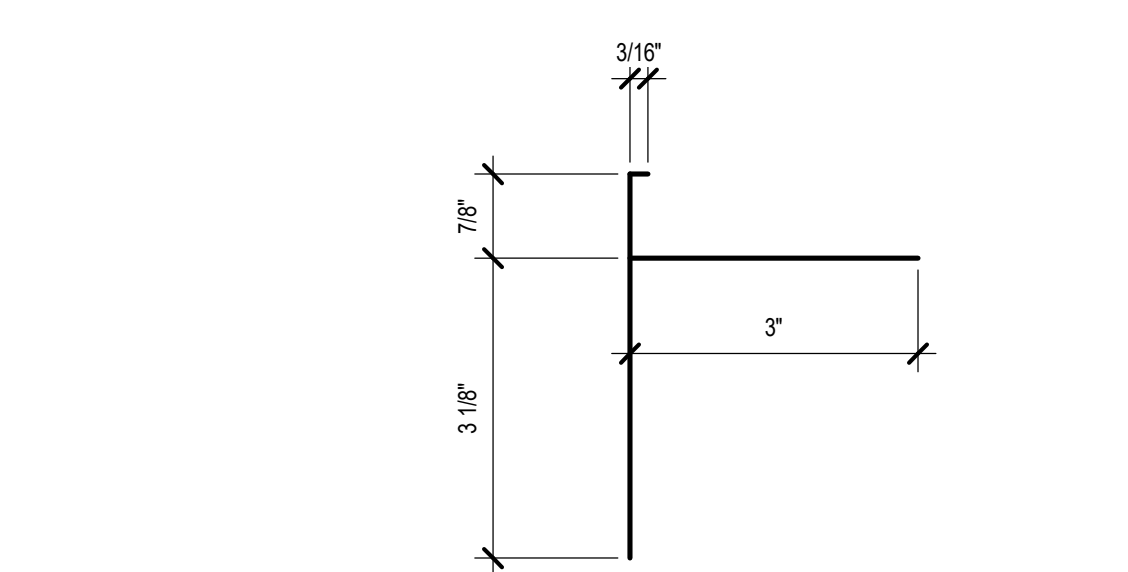
1E EXT - PLASTER ACCESSORIES - EXP JOINT
6" = 1'-0"



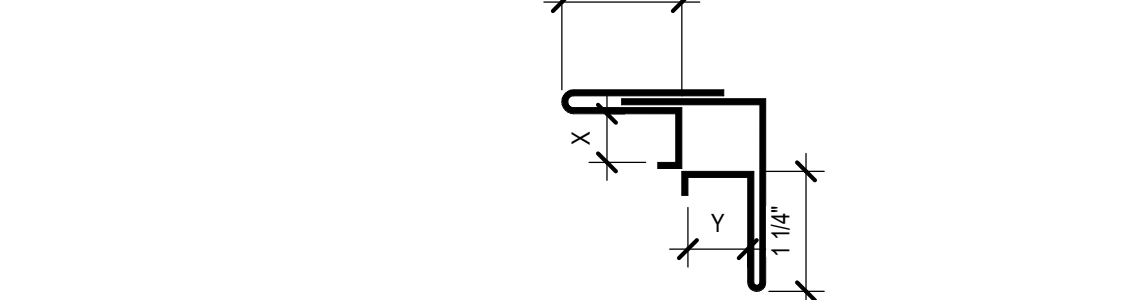
1F EXT - PLASTER ACCESSORIES - FASCIA SOFFIT MOLDING
6" = 1'-0"



1G EXT - PLASTER ACCESSORIES - REVEAL
6" = 1'-0"



1H EXT - PLASTER ACCESSORIES - FASCIA RECESSED WIND. MOLDING
6" = 1'-0"



1J EXT - PLASTER ACCESSORIES - CSJ CORNER SLIP JOINT
6" = 1'-0"



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NEW CLASSROOM BUILDING

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EXTERIOR DETAILS -
PLASTER

NO. 2 DATE 1/17/2020 ISSUE Revision 2 PROJECT NO: 17028-00 DATE: 11/12/2019

DRAWING
A9.3
AD2-A06



BIM 360://77028-00 MMHS Classroom Bldg.MECH-DCE-MMHS.rvt

1/10/2020 11:28:07 AM

GAS ROOFTOP PACKAGED AC UNITS

UNIT NO.	MANUFACTURER	MODEL NO.	SERVICE	NOMINAL C.F.M.	O.S.A. (CFM)	E.S.P.	DRIVE	COOLING COIL				E.E.R. / S.E.E.R.*	REFRIGERANT	HEATING			ELECTRICAL				FILTER	OPER. WT. (LBS)	ROOF CURB WEIGHT (LBS.)	REMARKS			
								ENT AIR (°F)		LVG AIR (°F)				SENSIBLE (MBH)	TOTAL (MBH)	OUTPUT HEATING CAPACITY (MBH)	INPUT HEATING CAPACITY (MBH)	A.F.U.E.	SUPPLY FAN						V/PH/Hz	M.C.A.	M.O.C.P.
								D.B.	W.B.	D.B.	W.B.	BHP	F.L.A.														
RTU-100	TRANE	YSC060	CORRIDOR D100B	1995	450	.85	DIRECT	80 °F	65 °F	57 °F	56 °F	51.42	58.17	12 / 14	R-410	64.8	80	.81	.99	0.7	460/3/60	13	15	(2) 20"x35"x2"	550	100	1, 2, 3, 4, 5, 6
RTU-101	TRANE	YSC036	OFFICE D101A, STORAGE D101B, SECURE STORAGE D200B, GIRLS & BOYS DRESSING ROOM D102A & D102B	1200	500	.85	DIRECT	79 °F	65 °F	57 °F	56 °F	29.75	35.73	12 / 14	R-410	64.8	80	.81	.57	0.55	460/3/60	10	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-102	TRANE	YSC048	CLASSROOM D102	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.35	47.46	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-103	TRANE	YSC048	CLASSROOM D103	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.51	47.79	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-104	TRANE	YSC048	CLASSROOM D104	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.35	47.46	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-105	TRANE	YSC048	CLASSROOM D105	1600	720	.85	DIRECT	83 °F	66 °F	57 °F	56 °F	44.30	48.41	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-106	TRANE	YSC048	CLASSROOM D106	1600	720	.85	DIRECT	83 °F	66 °F	57 °F	56 °F	44.30	48.41	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-200	TRANE	YSC060	CORRIDOR D200	1995	400	.85	DIRECT	79 °F	64 °F	56 °F	55 °F	51.13	56.32	12 / 14	R-410	64.8	80	.81	.99	0.7	460/3/60	13	15	(2) 20"x35"x2"	550	100	1, 2, 3, 4, 5, 6
RTU-201	TRANE	YSC048	CLASSROOM D201	1600	720	.85	DIRECT	83 °F	66 °F	57 °F	56 °F	44.30	48.41	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-202	TRANE	YSC048	CLASSROOM D202	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.35	47.46	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-203	TRANE	YSC048	CLASSROOM D203	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.35	47.46	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-204	TRANE	YSC048	CLASSROOM D204	1600	720	.85	DIRECT	82 °F	65 °F	56 °F	55 °F	44.35	47.46	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-205	TRANE	YSC048	CLASSROOM D205	1600	720	.85	DIRECT	83 °F	66 °F	57 °F	56 °F	44.13	48.07	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6
RTU-206	TRANE	YSC048	CLASSROOM D206	1600	720	.85	DIRECT	83 °F	66 °F	57 °F	56 °F	44.30	48.41	12 / 14	R-410	64.8	80	.81	.84	0.7	460/3/60	11	15	(2) 20"x35"x2"	500	100	1, 2, 3, 4, 5, 6

- 1 VERTICAL DUCT DISCHARGE PACKAGED DX AC UNITS 2 PROVIDE MANUFACTURER'S 14" ROOF CURB 3 PROVIDE UNIT WITH MODULATING ECONOMIZER AND BAROMETRIC RELIEF 4 ELECTRICAL TO PROVIDE FUSED DISCONNECT 5 CONVENIENCE OUTLET FIELD WIRED BY ELECTRICAL 6 PROVIDE THERMOSTAT INSTALLED AT 48" AFF 7 PROVIDE DDC CONTROL PANEL, MAP THE FOLLOWING CONTROL POINTS: SPACE TEMP, SPACE CO2 PPM, SPACE SETPOINT ADJUST, SPACE UNOCCUPIED OVERRIDE, SUPPLY FAN STATUS, SUPPLY FAN START/STOP, OUTSIDE AIR TEMP., OUTSIDE AIR ENTHALPHY, SCHEDULE

SPLIT SYSTEM SCHEDULE (INDOOR UNIT)

UNIT NO.	MANUFACTURER	MODEL NO.	SERVICE	C.F.M.	CAPACITY (MBH)	ELECTRICAL			OPER. WT. (LBS)	REMARKS
					TOTAL	V. / PH. / HZ.	F.L.A.	M.C.A.	MOCP	
FCU-1	MITSUBISHI	PEAD-A42AA7	ELECTRICAL D109	1042-1254-1483	42,000	208/1/60	2.8	15	100	1, 2, 3
FCU-2	MITSUBISHI	PKA-A30KA7	IDF D209	635-705-775	30,000	208/1/60	0.36	1	50	1, 2, 4

- 1 INDOOR UNIT POWER SUPPLIED FROM OUTDOOR UNIT 2 PROVIDE WITH HARD-WIRED THERMOSTAT INSTALLED AT 48" AFF 3 DUCT HORIZONTAL FAN COIL UNIT 4 DUCTLESS HIGH WALL FAN COIL UNIT

SPLIT SYSTEM SCHEDULE (OUTDOOR UNIT)

UNIT NO.	MANUFACTURER	MODEL NO.	LOCATION	SERVICE	TOTAL CAPACITY (TONS)	REFRIGERANT	ELECTRICAL			SEER	WEIGHT (LBS)	REMARKS
							V. / PH. / HZ.	M.C.A.	MOCP			
CU-1	MITSUBISHI	A42NHA3(LBS)	ROOF	ELECTRICAL ROOM 109	3.5	R410A	208/1/60	25	31	16.1	220	1, 2
CU-2	MITSUBISHI	A30NHA3(LBS)	ROOF	IDF D209	2.5	R410A	208/1/60	19	26	19.8	160	1, 2

- 1 OUTDOOR COOLING ONLY CONDENSING UNIT 2 PROVIDE WITH REFRIGERANT LINE SETS

EXHAUST FAN SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SERVICE	FAN TYPE	DRIVE	C.F.M.	E.S.P.	R.P.M.	ELECTRICAL			OPER. WT. (LBS)	REMARKS
									H.P.	B.H.P.	V. / PH. / HZ.		
EF-1	GREENHECK	G-095-VG	DRESSING ROOMS 102A & 102B	CENTRIFUGAL ROOF EXHAUST FAN	DIRECT	500	.67	1,639	1/6	0.13	115/1/60	60	1, 2
EF-2	GREENHECK	G-143-VG	JANITOR ROOMS, AND RESTROOMS	CENTRIFUGAL ROOF EXHAUST FAN	DIRECT	1,600	.63	1,193	1/2	0.34	115/1/60	90	1, 2

- 1 PROVIDE MANUFACTURER'S ROOF CURB, BIRDSCREEN, AND BACKDRAFT DAMPER 2 PROVIDE WITH COMBINATION MOTOR STARTER

GRAVITY VENTILATOR SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	SERVICE	LOCATION	CFM	STATIC PRESSURE	ROOF OPENING	OPERATING WEIGHT (LBS)	REMARKS
GV-102	Greenheck	FGR	CLASSROOM D102	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-103	Greenheck	FGR	CLASSROOM D103	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-104	Greenheck	FGR	CLASSROOM D104	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-105	Greenheck	FGR	CLASSROOM D105	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-106	Greenheck	FGR	CLASSROOM D106	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-201	Greenheck	FGR	CLASSROOM D201	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-202	Greenheck	FGR	CLASSROOM D202	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-203	Greenheck	FGR	CLASSROOM D203	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-204	Greenheck	FGR	CLASSROOM D204	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-205	Greenheck	FGR	CLASSROOM D205	ROOF	1600	.05	18"x18"	50	1, 2, 3
GV-206	Greenheck	FGR	CLASSROOM D206	ROOF	1600	.05	18"x18"	50	1, 2, 3

- 1 PROVIDE UNIT MANUFACTURER'S PRE-FABRICATED ROOF CURB 2 PROVIDE BIRDSCREEN 3 PROVIDE MOTORIZED DAMPER

MURRIETA VALLEY USD
MURRIETA MESA HIGH SCHOOL
CLASSROOM BUILDING ADDITION



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MECHANICAL SCHEDULES

NO. 2 DATE 1/17/2020 ISSUE Revision 2 PROJECT NO: 17028-00 DATE: 11/12/2019

DRAWING
M0.5
AD2-M01

GENERAL NOTES:

1. USE OPPOSED BLADE DAMPER FOR GRILLES IN SPACES WITH HARD LIQ CEILING. USE VOLUME CONTROL DAMPERS FOR LAY-IN GRILLES.

KEYNOTES:

1 REFRIGERANT PIPING UP INTO SHAFT ABOVE AND TO CONDENSING UNITS ON ROOF. SEE PLUMBING FLOOR PLANS FOR CONDENSATE CONNECTIONS.

2 15"x14"SA & 14"x12"RA UP TO LEVEL ABOVE AND UTR TO RTU-101

3 15"x16"SA & 18"x16"RA UP TO LEVEL ABOVE AND UTR TO RTU-102

4 15"x18"SA & 20"x18"RA UP TO LEVEL ABOVE AND UTR TO RTU-100

5 15"x16"SA & 18"x16"RA UP TO LEVEL ABOVE AND UTR TO RTU-103

6 15"x16"SA & 18"x16"RA UP TO LEVEL ABOVE AND UTR TO RTU-104

7 15"x16"SA & 18"x16"RA UP TO LEVEL ABOVE AND UTR TO RTU-105

8 15"x16"SA & 18"x16"RA UP TO LEVEL ABOVE AND UTR TO RTU-106

9 15"x14" RELIEF AIR DUCT UP TO LEVEL ABOVE AND UTR TO GRAVITY VENTILATORS

10 CEILING DIFFUSER. MOUNT PER DETAIL 5MS.1

11 UNDERCUT DOOR 34" REFER TO ARCHITECTURAL DRAWINGS

12 PROVIDE ACCESS PANEL TO SERVICE FCU-1 REFER TO ARCHITECTURAL DRAWINGS

13 24"x18" SUPPLY WALL GRILL REFER TO AIR DISTRIBUTION SCHEDULE

14 24"x18" RETURN WALL GRILL REFER TO AIR DISTRIBUTION SCHEDULE



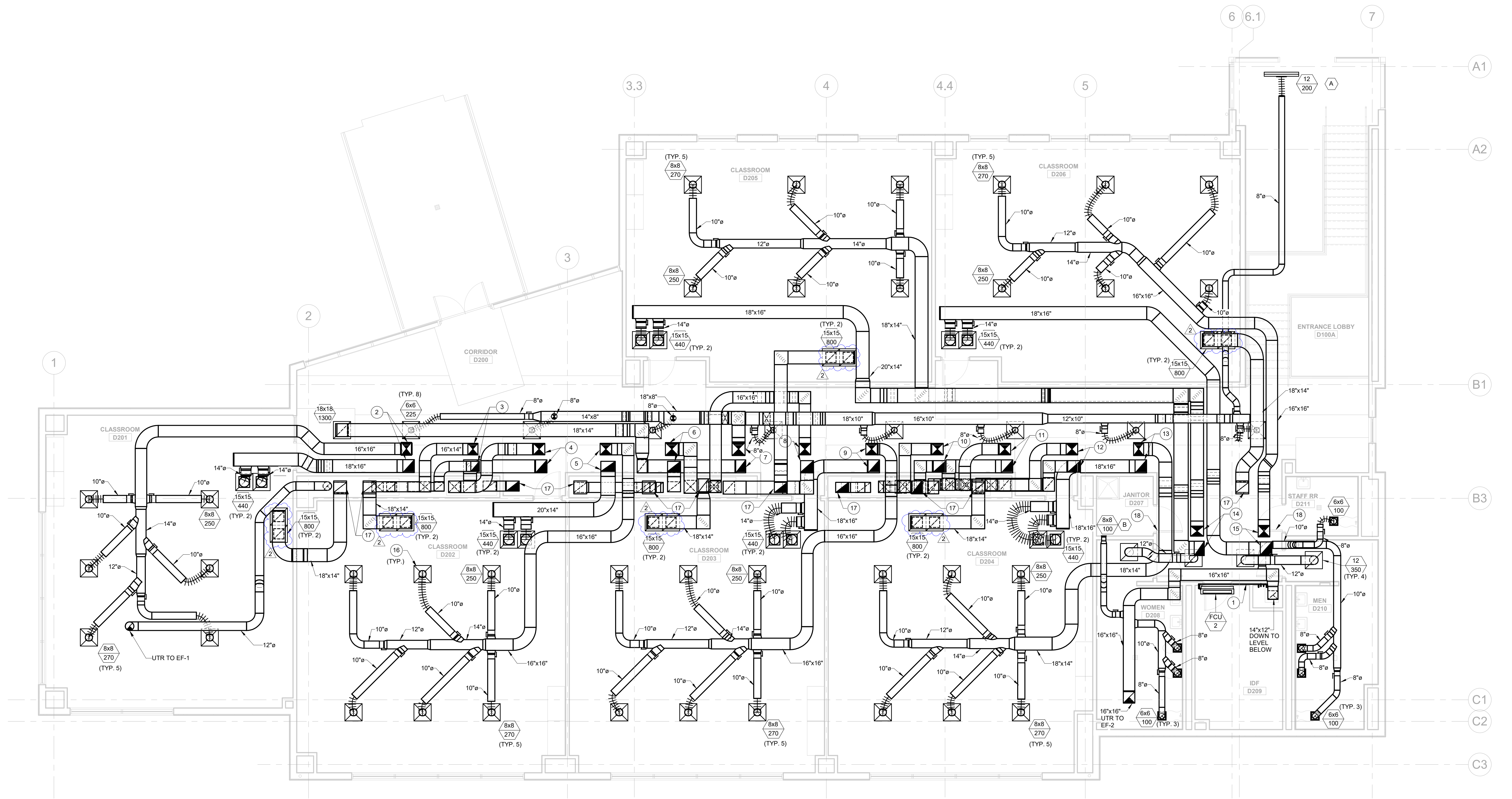
MECHANICAL FLOOR PLAN
LEVEL 1

DRAWING
M2.1
AD2-M02

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1/10/2020 11:28:19 AM

1 MECHANICAL FLOOR PLAN - LEVEL 2
SCALE 3/16" = 1'-0"



MURRIETA VALLEY USD
MURRIETA MESA HIGH SCHOOL
CLASSROOM BUILDING ADDITION

GENERAL NOTES:

1. USE OPPOSED BLADE DAMPER FOR GRILLES IN SPACES WITH HARD LID CEILING. USE VOLUME CONTROL DAMPERS FOR LAY-IN GRILLES.

KEYNOTES:

- 1 REFRIGERANT PIPING TO CONDENSING UNITS ON ROOF. SEE PLUMBING FLOOR PLANS FOR CONDENSATE CONNECTIONS.
- 2 16"x16" SA & 18"x16" RA UTR TO RTU-201
- 3 16"x14" SA & 14"x12" RA UTR TO RTU-101
- 4 16"x16" SA & 16"x18" RA UTR TO RTU-102
- 5 16"x16" SA & 20"x14" RA UTR TO RTU-202
- 6 18"x18" SA & 20"x18" RA UTR TO RTU-100
- 7 18"x18" SA & 20"x18" RA UTR TO RTU-200
- 8 16"x16" SA & 18"x16" RA UTR TO RTU-103
- 9 16"x16" SA & 18"x16" RA UTR TO RTU-203
- 10 16"x16" SA & 18"x16" RA UTR TO RTU-104
- 11 16"x16" SA & 18"x16" RA UTR TO RTU-105
- 12 16"x16" SA & 18"x16" RA UTR TO RTU-106
- 13 18"x14" SA & 18"x16" RA UTR TO RTU-204
- 14 18"x14" SA & 20"x14" RA UTR TO RTU-205
- 15 16"x16" SA & 18"x16" RA UTR TO RTU-206
- 16 CEILING DIFFUSER. MOUNT PER DETAIL 5M5.1
- 17 18"x14" RELIEF AIR DUCT UTR TO GRAVITY VENTILATORS
- 18 UNDERCUT DOOR 3/4" REFER TO ARCHITECTURAL DRAWINGS



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MECHANICAL FLOOR PLAN
LEVEL 2

NO. 2 DATE 1/17/2020 ISSUE Revision 2 PROJECT NO: 17028-00 DATE: 11/12/2019



DRAWING
M2.2
AD2-M03

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FIXTURE UNIT FOR BUILDING								
FIXTURE	TYPE	QTY	WATER				WASTE	
			CW FU	TOTAL	HW FU	TOTAL	FU	TOTAL
WATER CLOSET / F.V.	PUBLIC	10	5.0	50	-	-	4.0	40
URINAL / F.V.	ASSEMBLY	4	4.0	16	-	-	2.0	8
LAVATORY	PUBLIC	10	1.0	10	1.0	10	1.0	10
DRINKING FOUNTAIN	ASSEMBLY	2	0.5	1	-	-	1.0	2
MOP SINK	PUBLIC	2	3.0	6	3.0	6	3.0	6
HOSE BIBB	PUBLIC	6	2.5 1.0	7.5	-	-	-	-
FLOOR DRAIN	PUBLIC	6	-	-	-	-	-	-
FLOOR SINK	PUBLIC	1	-	-	-	-	4	4
TOTAL FU				90.5		16		70
TOTAL GPM				66		12		-

NOTES:
1. INCLUDES SINGLE AND DUAL FLUSH WATER CLOSETS WITH AN EFFECTIVE FLUSH OR 1.28 GALLONS OR LESS. SINGLE FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS). THE EFFECTIVE FLUSH VOLUME IS THE AVERAGE FLUSH VOLUME WHEN TESTED IN ACCORDANCE WITH ASME A112.19.233.2.
DUAL FLUSH TOILETS - THE EFFECTIVE FLUSH VOLUME SHALL NOT EXCEED 1.28 GALLONS (4.8 LITERS). THE EFFECTIVE FLUSH VOLUME IS DEFINED AS THE COMPOSITE, AVERAGE FLUSH VOLUME OF TWO REDUCED FLUSHES AND ONE FULL FLUSH.
FLUSH VOLUMES WILL BE TESTED IN ACCORDANCE WITH ASME A112.19.2 AND ASME A112.19.14.

PLUMBING EQUIPMENT SCHEDULE			
SYMBOL	TYPE	DESCRIPTION	LOCATION
	ELECTRIC WATER HEATER	CHRONOMITE, MODEL SR-15L277, INSTANT-FLOW, VANDAL RESISTENT, FURNISH AND INSTALL 0.40 GPM TEMP RISE @ 71 DEG RISE, 99% ENERGY EFFICIENT. WEIGHT = 5LBS.	STAFF RESTROOM
	WATER HEATER	AO SMITH, MODEL EJC-10, VANDAL RESISTENT, FURNISH AND INSTALL 240V / 1PH / 60HZ, 6000 W.	JANITOR ROOM

CGC TABLE 5.303.2.3 FIXTURE FLOW RATES		
FIXTURE TYPE	FLOW RATE	MAXIMUM FLOW RATE AT @ 20 PERCENT REDUCTION
LAVATORY FAUCETS, NONRESIDENTIAL	0.5 GPM @ 60 PSI	0.4 GPM @ 60 PSI
SINK FAUCETS	2.2 GPM @ 60 PSI	1.8 GPM @ 60 PSI
FLUSHOMETER VALVE WATER CLOSETS	1.6 GALLONS/FLUSH	1.28 GALLONS/FLUSH
URINALS	1.0 GALLONS/FLUSH	0.5 GALLONS/FLUSH

PLUMBING FIXTURE SCHEDULE								
SYMBOL	FIXTURE	ROUGH-IN					ELEC. REQ.	DESCRIPTION
		HW	CW	W	TRAP	V		
	WATER CLOSET	--	1-1/2"	4"	INT.	2"	NO	FIXTURE: AMERICAN STANDARD MODEL 2294.011EC "AFWALL", WALL-MOUNTED, FLUSH VALVE, ELONGATED BOWL, VITREOUS CHINA, 1.28 GPF. SEAT: AMERICAN STANDARD, MODEL 5905.1 SEAT, LESS COVER (OPEN FRONT) WITH SS CHECK-HINGE. FLUSH VALVE SLOAN MOD 111-1-28, 1.28 GPF EXPOSED, CHROME POLISHED VALVE WITH SCREW DRIVER STOP, ASJUSTABLE TAILPIECE, INTEGRAL VACUUM BREAKER.
	WATER CLOSET - ADA	--	1-1/2"	4"	INT.	2"	NO	FIXTURE: AMERICAN STANDARD MODEL 2294.0 "AFFWALL, WALL-MOUNTED, FLUSH VALVE, ELONGATED BOWL, VITREOUS CHINA, 1.28 GPF. SET HEIGHT PER SEAT: AMERICAN STANDARD, MODEL 5905.1 SEAT, LESS COVER (OPEN FRONT) WITH SS CHECK HINGE. FLUSH VALVE SLOAN MOD 111-1-28, 1.28 GPF EXPOSED, CHROME POLISHED VALVE WITH SCREW DRIVER STOP, ASJUSTABLE TAILPIECE, INTEGRAL VACUUM BREAKER.
	LAVATORY - ADA	1/2"	1/2"	2"	1 1/2"	1 1/2"	NO	FIXTURE: KOHLER MODEL PINOIR K-20035-1 20" X 18" VITREOUS CHINA WALL-HUNG LAVATORY WITH J.R. SMITH® FIG. 700 CONCEALED ARMS. FAUCET: ZURN MODEL Z6930-XL-M, 0.35 GPM. STOPS: "CHICAGO" #1017 ANGLE STOP WITH FLEXIBLE TUBE RISER AND LOOSE KEY. TRAP: 1-1/4" X 1-1/2", 17 GAUGE CHROME PLATED TRAP WITH CLEANOUT PLUG. INSULATE TRAP AND SUPPLIES FOR ADA USE WITH TRUEBRO
	LAVATORY WITH EWH-1- ADA	1/2"	1/2"	2"	1 1/2"	1 1/2"	NO	FIXTURE: KOHLER MODEL PINOIR K-20035-1 20" X 18" VITREOUS CHINA WALL-HUNG LAVATORY WITH J.R. SMITH® FIG. 700 CONCEALED ARMS. FAUCET: ZURN MODEL Z6930-XL-M, 0.35 GPM, COMPLETE WITH THERMOSTATIC MIXING VALVE ACCESSORY TMV-1. STOPS: "CHICAGO" #1017 ANGLE STOP WITH FLEXIBLE TUBE RISER AND LOOSE KEY. TRAP: 1-1/4" X 1-1/2", 17 GAUGE CHROME PLATED TRAP WITH CLEANOUT PLUG. INSULATE TRAP AND SUPPLIES FOR ADA USE WITH TRUEBRO
	URINAL - ADA	--	1-1/2"	2"	INT.	1 1/2"	NO	FIXTURE: AMERICAN STANDARD, MODEL 6590.525 "WASHBROOK", WALL MOUNTED, VITREOUS CHINA, FLUSH VALVE, SLOAN MOD 188-0125, 0.125 GPF EXPOSED TOP SPOUT EXPOSED AC, SET TO ADA HEIGHT PER ARCHITECTURAL PLANS.
	URINAL	--	1-1/2"	2"	INT.	1 1/2"	NO	FIXTURE: AMERICAN STANDARD, MODEL 6590.525 "WASHBROOK", WALL MOUNTED, VITREOUS CHINA, FLUSH VALVE, SLOAN MOD 188-0125, 0.125 GPF EXPOSED TOP SPOUT EXPOSED AC, SET TO HEIGHT PER ARCHITECTURAL PLANS.
	DRINKING FOUNTAIN ADA	1/2"	1/2"	2"	1 1/2"	1 1/2"	YES	MURDOCK, MODEL A172.8UBLVR-BF1S, BOTTLE FILLER BF1S, TWO-LEVEL FOUNTAIN WITH FLEXI-GARD, FILTERED NON-REFRIGERATED, STAINLESS STEEL ADA COMPLIANT.
	MOP SINK	3/4"	3/4"	3"	3"	2"	NO	FIAT MODEL TSB3001 FLOOR MOUNT, 28" x 28" SINGLE COMPARTMENT, ACID-RESISTANT DECK MOUNTED, CHICAGO FAUCET MOD. 897-CP, WITH ATMOSPHERIC VACUUM BREAKER SPOUT-HANDICAPPED ACCESSIBLE.
	HOSE BIBB (EXTERIOR)	--	3/4"	--	--	--	NO	ACORN, MODEL 8151 RECESSED HOSE BIBB, WITH VACUUM BREAKER, WHEEL HANDLE, STAINLESS STEEL HOSE BOX WITH LOCKABLE DOOR.
	HOSE BIBB (ROOF)	--	3/4"	--	--	--	NO	MURDOCK MODEL M-3903 NON-FREEZE SANITARY ROOF HYDRANT, WITH VACUUM BREAKER AND LOOSE KEY T-HANDLE.
	FLOOR DRAIN	--	--	2"	2"	2"	NO	ZURN MODEL Z415-C, FLOOR DRAIN, CAST IRON BODY, ADJUSTABLE STRAINER AND 5" ROUND NICKEL BRONZE TOP, TRAP PRIMER CONNECTION.
	FLOOR SINK	--	--	3"	3"	2"	NO	ZURN MODEL Z1900, 12x12x6 DEEP CAST IRON BODY, SQUARE NICKEL BRONZE TOP LIGHT DUTY GRATE, DOME BOTTOM STRAINER, LESS GRATE, TRAP PRIMER CONNECTION.
	TRAP PRIMER	--	1/2"	--	--	--	NO	MIFAB MODEL MR-500, BRASS CONSTRUCTION, SINGLE SUPPLY, 5 PSI, OPERATING PRESSURE. PROVIDE DISTRIBUTION UNIT WHERE REQUIRED.
	COMBINATION MAIN ROOF & OVERFLOW DRAIN	--	--	PER PLANS	--	--	NO	ZURN MODEL Z165, 8-3/8" DIAMETER ROOF DRAIN AND OVERFLOW DRAIN, CAST IRON BODIES WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUAR.
	DOWNSPOUT NOZZLE	--	--	PER PLANS	--	--	NO	ZURN, Z-199, BRONZE BODY, THREADED INLET AND WALL FLANGE.
	WATER HAMMER ARRESTOR	--	--	PER PLANS	--	--	NO	PPP MODEL SC SERIE, FURNISHED IN ALL NICKLE PLATED CONSTRUCTION.
	FLOOR CLEAN OUT	--	--	PER PLANS	--	--	NO	ZURN MODEL Z1400-S MUST BE FLUSHED TO SURFACE.
	WALL CLEAN OUT	--	--	PER PLANS	--	--	NO	ZURN MODEL Z1445 WITH ROUND WALL ACCESS ROUND.
	GRADE CLEAN OUT	--	--	PER PLANS	--	--	NO	ZURN MODEL Z1400-K, ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODYWITH ANCHORE FLANGE, HEAVY-DUTY.
	DOUBLE CLEAN OUT	--	--	PER PLANS	--	--	NO	ZURN MODEL Z1400-K, ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST IRON BODYWITH ANCHORE FLANGE, HEAVY-DUTY.
	DECK DRAIN	--	--	PER PLANS	--	--	NO	ZURN MODEL Z513, ADJUSTABLE, DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, VANDAL-PROOF SECURED TOP, HEAVY-DUTY.

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PLUMBING SCHEDULES

NO. DATE ISSUE PROJECT NO: 17028-00
DATE: 11/12/2019

DRAWING
P0.3
AD2-P01

STRUCTURAL CALCULATIONS

FOR

**MURRIETA MESA HIGH SCHOOL
Classroom Building
Addendum #2**

Murrieta, CA

A #04-118451

KNA No. 323.056

January, 2020

Prepared Under the Direction of:



Larry R. Kaprielian

Registered Structural Engineer, S.E. 2795 (CA)



9931 Muirlands Blvd., Irvine, CA 92618
Tel (949) 462-3200 • Fax (949) 462-3201
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PROJECT MURRIETA MESA HS (A# 04-118451)
CLASSROOM BLDG (ADDENDUM #2)
 CLIENT ENDS

SHEET 1 OF ADD #2
 JOB NO 323.056
 DATE 1/20
 BY TC

BUILDING LETTERING "

LETTERING SELF WT:

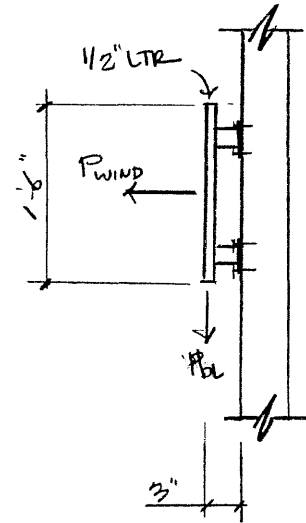
$$1/2" \text{ ALUMINUM} = 170 \text{ PCF } (0.5/12)(1'-6")$$

$$W_{DL} = 11 \text{ PLF}$$

WIND LOADING:

✓ ZONE 5 WALL C+C @ ULT. PER SHEET 50.1

$$W_{WIND} = 0.6 (44.6 \text{ PSF}) = 27 \text{ PSF}$$



ANCHORS @ 4'-0" O.C. MAX

$$P_{SIGN \text{ DL}} = 11 \text{ PLF } (4'-0") = 44 \text{ \#}$$

$$P_{WIND} = 27 \text{ PSF } (1'-6")(4'-0") = 162 \text{ \#}$$

DEMAND:

$$V_{ANCHOR} = 44 \text{ \# } (1/4 \text{ anchors}) = 11 \text{ \#}$$

$$T_{ANCHOR} = 162 \text{ \# } (1/4 \text{ anchors}) + 44 \text{ \# } (3")(1/12") (1/2 \text{ anchors}) = 46 \text{ \#}$$

#10 SMS CAPACITY:

$$V_a = 534 \text{ \#} > 11 \text{ \#} \checkmark \text{ OK}$$

$$T_a = 198 \text{ \#} > 46 \text{ \#} \checkmark \text{ OK}$$

PROVIDE (2) #10 SMS T & B
 @ 4'-0" O.C. MAX

PROJECT MURRIETA MESA HS (A# 04-118451)
CLASSROOM BLDG (ADDENDUM #2)
 CLIENT ENDS

SHEET 2 OF ADD#2
 JOB NO 323.056
 DATE 1/20
 BY TC

BUILDING LOGO

LETTERING SELF WT:

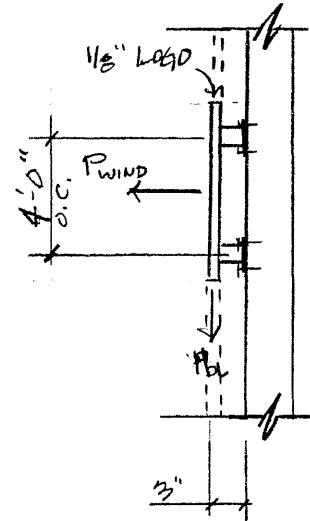
$$1/8" \text{ ALUMINUM} - 170 \text{ PCF} (0.2/12)(4'-0")$$

$$W_{DL} = 12 \text{ PLF}$$

WIND LOADING:

✓ ZONE 5 WALL C+C @ ULT. PER SRET SO.1

$$W_{WIND} = 0.6 (44.6 \text{ PSF}) = 27 \text{ PSF}$$



ANCHORS @ 4'-0" O.C. MAX EA. WAY

$$P_{SIGN} DL = 12 \text{ PLF} (4'-0") = 48 \text{ \#}$$

$$P_{WIND} = 27 \text{ PSF} (4'-0") (4'-0") = 432 \text{ \#}$$

T R I B

DEMAND:

$$V_{ANCHOR} = 48 \text{ \#} (1/4 \text{ anchors}) = 12 \text{ \#}$$

$$T_{ANCHOR} = 432 \text{ \#} (1/4 \text{ anchors}) + 48 \text{ \#} (3") (1/48") (1/2 \text{ anchors}) = 110 \text{ \#}$$

#10 SMS CAPACITY:

$$V_a = 534 \text{ \#} > 12 \text{ \#} \checkmark \text{ OK}$$

$$T_a = 198 \text{ \#} > 110 \text{ \#} \checkmark \text{ OK}$$

PROVIDE (2) #10 SMS T & B
 @ 4'-0" O.C. MAX EA. WAY



WATER COOLERS

A172.8UBLVR-BF1S Series

BARRIER FREE, VANDAL RESISTANT, UNIVERSAL BI-LEVEL, WALL MOUNTED WATER COOLER WITH -BF1S PUSHBUTTON OPERATED BOTTLE FILLER

STANDARD FEATURES

Electric Water Cooler

- Child or Adult ADA Compliant (when properly installed)
- Universal Bi-Level - Can be installed left unit high right unit low or opposite with no additional parts required.
- 304 Stainless Steel Basin and Flush Mounted Chrome Plated Brass Button
- Polished Stainless Steel, Anti-Rotation, Non-Squirt Bubblers
- Auto-Stop allows Cartridge and Strainer service without removing Cooler Deck to access Water Supply Stop
- Lead free

Bottle Filler

- ADA Compliant
- 100-Mesh Inlet Strainer
- 1 GPM Laminar Flow
- 100% Lead & Brass Free

SUGGESTED SPECIFICATIONS

Electric Water Cooler

Model A172408S-UBL-VR-BF1S is a self-contained, Vandal Resistant Button pressurized Water Cooler that delivers a minimum of **8.0 GPH** (30.3 LPH) of water at 50°F (10°C) cooled from 80°F (26.7°C) inlet water and 90°F (32.2°C) ambient. Units shall be activated by Chrome Plated Brass Front Pushbuttons by using less than 5 pounds of force. Lead-Free Bubbler shall deliver a 0.3 GPM flow, have an integrally designed non-squirt feature and operate on a water pressure range of 20-105 PSIG. Basin shall be constructed from 304 Stainless Steel and have an Integral Drain. Cabinet shall be 304 Stainless Steel and the Louvers will have a Stainless Steel Protective Screen. Cooling system shall use R-134a refrigerant and be Capillary Tube regulated. An Adjustable Thermostat with an "off" position shall regulate the refrigeration system. Unit shall be listed by Underwriters Laboratories for both the US and Canada and is compliant to the Air Conditioning and Refrigeration Institute Standard 1010. Unit is certified to ANSI A117.1, Public Law 111-380 (NO-LEAD), CHSC 116875 and NSF/ANSI 61, Section 9. Fixture meets ADA, ADA Standing Person, and ADA Child requirements when mounted appropriately. Unit shall still deliver ambient water temperature to the Bubbler in the absence of electrical power as long as there is a pressurized water supply..

Bottle Filler BF1S

BF1S is a Pushbutton Operated Bottle Filler. Housing construction will be 18 gage Stainless Steel with a satin finish. Optional -WF1 has a 1500-gallon capacity, has NSF/ANSI 42 & 53 certification and reduces Lead content in the drinking water by 99%. Bottle Filler shall provide approximately 1 GPM flow rate with a Laminar Flow Spout to minimize splashing.



Model A172408S-VR-BF1S Shown
PATENT# 10,100,933



Maintenance Advantage®
Water Cooler by Murdock Manufacturing

"RATED FOR INDOOR AND OUTDOOR USE"

Model Number	GPH*	Rated Watts	Full Load Amps	Approx. Shipping Weight
A172408S-VR-BF1S	8.0	335	4.4	155 lbs.

* GPH of 50°F water at 90°F ambient room temperature and 80°F inlet water temperature
Compressor motor operates on 115 Volt / 60 Hz single phase.

MODEL:

(Must Specify)

- ☐ A172408S-UBL-VR-BF1S Satin Stainless Finish

OPTIONS

(additional costs may be incurred)

- ☐ -CSC3 Concealed Support Carrier
- ☐ -LOGO Customer Specified Logo / Graphics
- ☐ -WF1 1500-gallon capacity, NSF 42+53, 1 micron Lead Reduction Filter
- ☐ -220V 220 volt / 50 Hz compressor

Complies with the following standards:



Member of
U.S. Green
Building
Council



Recyclable
Product



Water
Conserving
Product

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

MURDOCK MFG. • 15125 Proctor Avenue • City of Industry, CA 91746 USA
Phone 800-453-7465 or 626-333-2543 • Fax 626-855-4860 • www.murdockmfg.com

Member of
MORRIS GROUP
INTERNATIONAL

A172.8UBLVR-BF1S

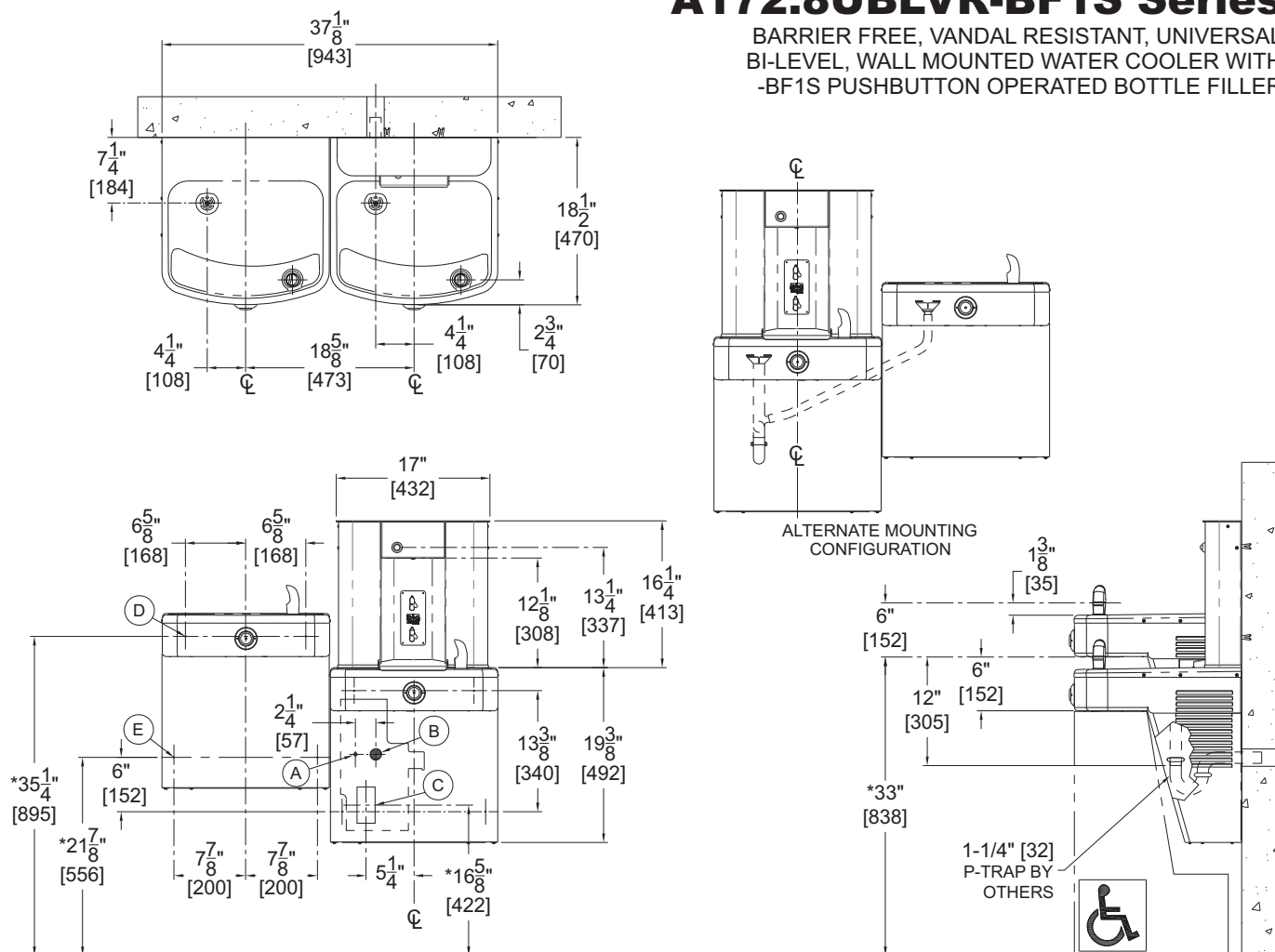
Revised: 12/04/18



WATER COOLERS

A172.8UBLVR-BF1S Series

BARRIER FREE, VANDAL RESISTANT, UNIVERSAL BI-LEVEL, WALL MOUNTED WATER COOLER WITH -BF1S PUSHBUTTON OPERATED BOTTLE FILLER



General Notes:

1. All dimensions are in inches [MM]
2. Allow 4 inches [102MM] minimum clearance per side for ventilation
- *3. Dimensions shown are for ADA adult height. Adjust vertical dimensions as necessary to comply with Federal, State & Local Codes
4. Stop Valve, P-Trap & Electrical Outlet not supplied
5. Important: Coolers must be attached to wall with appropriate Anchor Screws

- A. 3/8" O.D. Supply Inlet
- B. Waste Outlet for 1-1/4" P-Trap, by others
- C. Electrical Service Rough
- D. Ø3/8" Hanger Bracket Punching, 3 places for Anchoring Hardware by others
- E. Ø1/4" Punching, 2 places for Anchoring Hardware, by others

Murdock Mfg.™ warrants that its products are free from defects in material or workmanship under normal use and service for a period of one year from date of shipment. Murdock's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Murdock™ is notified in writing within one year from date of shipment, F.O.B. Industry, California.

Model Number & Options _____	Quantity _____	<p>All dimensions are subject to manufactures tolerance of plus or minus 1/2" nominal and subject to change without notice. Murdock assumes no responsibility for use of void or superseded data. Dimensions may change with the addition of optional accessories. Murdock Mfg.™, Member of Morris Group International™. Please visit www.murdockmfg.com for most current specifications.</p>
Company _____		
Contact _____	Title _____	
Signature (Approval for Manufacturing) _____		
Date _____		

MURDOCK MFG. • 15125 Proctor Avenue • City of Industry, CA 91746 USA
 Phone 800-453-7465 or 626-333-2543 • Fax 626-855-4860 • www.murdockmfg.com

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HYDRANTS

M-3903 NON-FREEZE SANITARY ROOF HYDRANT

FUNCTION: Used on roofs where water is required for window washing, cleaning of condenser coils, cooling towers and other types of roof equipment. Freezing is prevented by the valve housing being located below the roof in a heated or insulated area. The hydrant is engineered to be fully self contained by draining the water from the casing after shut-off into the sealed canister.

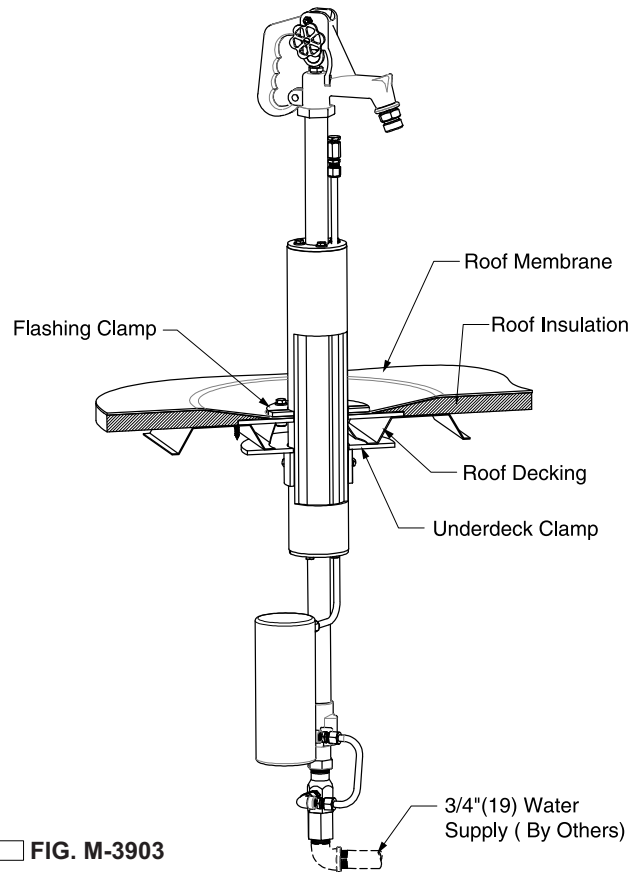
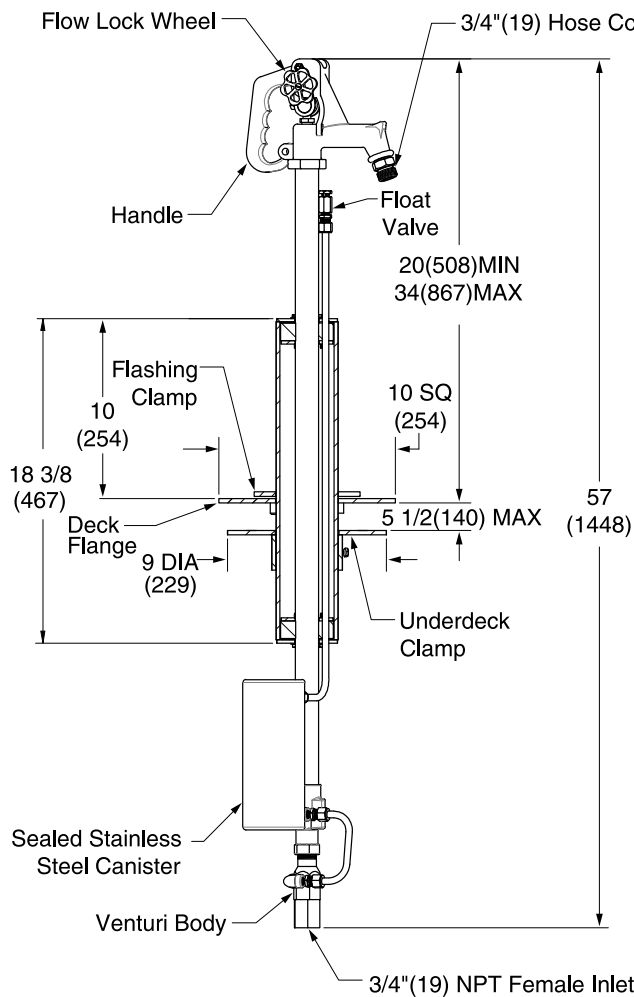


FIG. M-3903

Installation Illustration
(For Illustration Purpose Only)

REGULARLY FURNISHED:

Non-Freeze Sanitary (Self Contained) Roof Hydrant with Galvanized Casing, Adjustable Flow Wheel Lock Handle, Sealed Stainless Steel Canister, Venturi and Roof Mount Assembly.

VARIATIONS:

☒ Vacuum Breaker -H

NOTES:

1. Addition of vacuum breaker will not allow draining of the hydrant casing. Murdock-Super Secur is not responsible for any casings that burst or related incidents if the hydrant is supplied with a vacuum breaker.
2. The California Lead Laws and NSF/ANSI Standards 61-2008 - Drinking Water System Components are not applicable to this hydrant as they are not intended to convey/dispense water for human consumption through drinking or cooking.
3. Do not leave hose attached in freezing temperatures as it may prevent drainage of the casing.
4. Dimensions shown in parentheses are in millimeters.
5. FOR IRRIGATION PURPOSES ONLY.

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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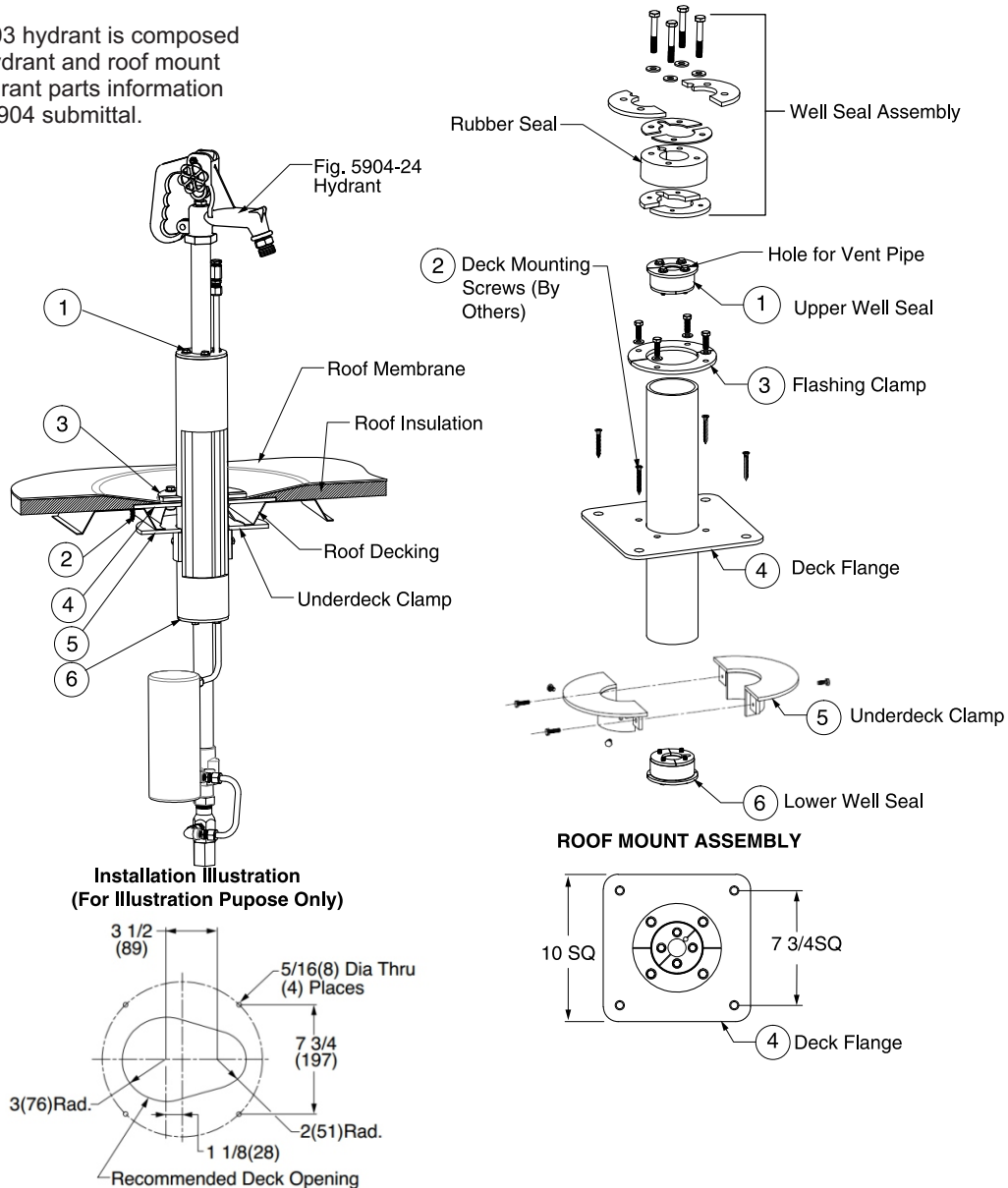
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HYDRANTS

NON-FREEZE SANITARY ROOF HYDRANT

NOTE: Fig. M-3903 hydrant is composed of a M-3904-02 hydrant and roof mount assembly. For hydrant parts information reference the M-3904 submittal.



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**SELECTION SUMMARY
& APPROVAL FOR
MANUFACTURING**

Model Number & Options _____	Quantity _____
Company _____	
Contact _____	Title _____
Signature (Approval for Manufacturing) _____	Date _____

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