EL MONTE UNION HIGH SCHOOL DISTRICT

Purchasing Department

3537 JOHNSON AVENUE, EL MONTE, CA 91731

Phone: (626) 444-9005

Email: purchasing@emuhsd.org

December 2, 2024

TO	:	All Bidders
FROM	:	El Monte Union High School District
BID #	:	2024-25 (B5)
PROJECT	:	Rosemead Adult Education and Transition Center Addition/Modernization REBID
SUBJECT	:	Addendum No. 2

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 Addendum, 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 Addendum 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 Addendum, this Addendum shall govern.

BID FORM(S) REPLACED: NO

CLARIFICATIONS

General Conditions Section 11.3 BUILDER'S RISK/ALL RISK INSURANCE – remove this requirement in its entirety. District will obtain this coverage.

ATTACHEMENTS: *Yes*

1. **DLR Group Addendum 04 dated December 2, 2024**
2. **Drawings: A0.4, A3.2, A3.3, A6.1, A6.2, A6.3, A6.4, A6.5, A6.6, A9.1, A10.03, A11.10, A13.A, A13.B, A14.6, S1.3, S2.2, S8.1**
3. **Specification Sections: 07 26 00, 28 31 00**

END OF ADDENDUM 2

DLR Group inc.
a California corporation

700 South Flower Street, 22nd Floor
Los Angeles, CA 90017

December 2, 2024

ADDENDUM 04

Pre-Bid Revision for Contractors' Incorporation into:

Rosemead Adult Education and Transition Center
El Monte Union High School District

DSA Application No:	03-122743
File No.	19-H10
DLR Group Project No.:	75-20223-02

Prepared By: DLR Group
700 South Flower Street, 22nd Floor
Los Angeles, CA 90017
(213) 800-9400

NOTICE TO BIDDERS:
The following revisions are being made to the Bidding Documents to the above referenced project:

Pre-Bid Requests for Information

The following pre-bid requests for information were received. The responses are incorporated into this Addendum via the answer directly below the RFI.

RFI 134..... Regarding the document titled '2024-25-B5 Rosemead Transition Center REBID Bid Documents', on page 5 of the table of contents, Exhibits A, B, C & D are indicated to be DLR Architects Addendums 1, 2, 3 and the CWA. Please note that these exhibits were found in the provided bid docs but each of them appear to just consist of a single cover page. Please provide the entire narrative and drawings for each of these three addendums and please provide the CWA.
Answer.....*See Addendum No. 1 issued 11/13/24.*

RFI 135 ..... Currently the bid date is scheduled for Friday, December 6 at 10:00AM. We respectfully request the bid time be changed to 2:00PM to allow suppliers and subcontractors sufficient time to provide pricing on bid day
Answer.....*Bid date cannot be changed due to construction schedule and Board meeting dates.*

RFI 136 ..... Pre-qualified license C43 is stated for MEP's. The Sheet metal has a C43 license and does not do any part of the MEP scope. Is a sheet metal subcontractor who does not do any MEP work required to be pre-qualified to bid and work on this project?
Answer.....*All licenses listed must be prequalified.*

RFI 137 ..... There is a new spec section 04 21 50 Thin Brick Panel Systems The panel system is called Brick-it and is a rain screen type of system with a girt and insulation. Specs don't call out where this Brick-it panel system goes. The plans don't show or call out a Brick-it panel system to any location that can be found on the plan. Where does the architect want the Brick-it system to be installed?
Answer.....*This system is indicated BR-1 on the Finish Schedule A12.2 as issued in Addendum 02. The location is noted on the finish plans.*

RFI 138 ..... Spec section 055213 - Pipe and Tube Railings, paragraph 1.2A.2 mentions stainless steel railings. Please confirm stainless steel railings do not apply to the project.
Answer.....*All railings are to be painted, UNO.*

RFI 139 ..... In Front End Document Exhibit B, the Addendum 2 drawing A12.1 indicates flooring type RF-2 is not used. On drawing A13.A flooring type RF-2 is called out in room B-101 and on drawing A13.B in room A-205. Please clarify what flooring type is required at rooms B-101 and A-205.
Answer.....*RF-1 is required at these rooms. See revised finish plans A13.A and A13.B.*

RFI 140 ..... Moisture vapor emission control is identified in two separate spec sections. In section 090561.13 - Moisture Vapor Emission Control, paragraph 1.2.A.1 indicates to install at all ground level concrete to receive new flooring finish. In section 033000 - Cast-In-Place Concrete, paragraph 2.01G indicates to install at elevated slabs and slabs on grade. Please clarify which system is required.
Answer.....*Both are required. 033000 Cast-In-Place Concrete, paragraph 2.01G is used for curing the concrete. 090561.13 Moisture Vapor Emission Control, paragraph 1.2.A.1 is for controlling emissions that may affect floor finishes. Below slab vapor barrier to be installed per ASTM E1745 Class A, per section 033000 and 072600.*

RFI 141 ..... Please provide a specification for the sunshades on windows 00-XX, QQ, RR, KK and DD shown on A8.4.
Answer.....*Sunshades are indicated in section 08 41 13.*

RFI 142 ..... Is R-30 unfaced fiber glass batts required above the ceiling / below floor? It's noted in section 072100 article 2.4.a.2 but not shown on the plans.
Answer.....*Insulation that is removed or damaged during construction is to be replaced with new.*

RFI 143 ..... Is sound board insulation at the furring walls shown in details 3 & 4 / A6.3 required? No wall types or materials are noted on the plans.
Answer.....*Sound board insulation is not indicated at these details.*

RFI 144 ..... May a contract amount in a subcontract agreements be for an amount in excess of the Districts prequalified contract amount for that specific subcontractor?
Answer.....*Prequalification amounts are only provided in the event that the contractor is bidding as a prime. MEP subcontractors are required to be prequalified, however, the approved amount is not applicable.*

RFI 145 ..... Please provide a copy of the District provided Builder's Risk Insurance policy.
Answer.....*We do not have that available yet, the policy will not be issued until after bids are received.*

RFI 146 ..... Please provide the deductible amount for the District provided Builder's Risk Insurance policy.
Answer.....*We do not have that available yet, the policy will not be issued until after bids are received.*

RFI 147 ..... No irrigation is shown at the raised planter boxes on IR1.0. Please confirm if irrigation is required for the raised planter boxes?
Answer.....*Raised planters intended for culinary gardening. Hose bib provided near planter boxes for hand watering application and/or district provided irrigation POC. See sheet IR1.0 and detail 'N' on sheet IR1.1.*

RFI 148 ..... On Sheet A1.4, RF-1 calls for 5/8" dens-deck as part of the roofing assembly. Roofing spec 075430 - section 2.4 A.2 is calling for 1/4" or 1/2" roof cover board. Please confirm what thickness is required for the dens deck coverboard?
Answer.....*Provide 5/8" thick densdeck prime coverboard as indicated on the plans.*

RFI 149 ..... Spec section 321600 Concrete Paving - Section 3.11.1 discusses the concrete finish for the walks and states to see architectural drawings. No finish information is provided on Arch drawings for the site

concrete walks. Please confirm that medium broom finish is acceptable or provide concrete finish recommendations for site concrete walks.

Answer.....*Specification indicates walks to be medium broom finish unless otherwise noted. See 3.11.2.*

RFI 150**.....** Regarding the planters at the courtyard shown on G2.2, detail 54/A0.4 does not show any information regarding the depth and type of soil required. Please clarify.

Answer.....*Fill planters with premium garden soil – provide cut sheet submittal for review and approval. Fill depth to 2" under deck board cap.*

RFI 151**.....** No planting is shown at the raised planter boxes on L1.0. Please confirm if planting is required for the raised planter boxes?

Answer.....*Garden planting will be provided by district staff for educational purposes.*

RFI 152**.....** On drawing A10.03, detail 55 shows waterproofing and references sheet A5.1.2. This sheet was not found in the plan set. Please clarify.

Answer.....*Refer to revised detail.*

RFI 153**.....** Please clarify if the elevator pit waterproofing shown on 55/A10.03 applies to spec section 071326. Will only the interior of the elevator pit require waterproofing?

Answer.....*Confirmed. Refer to revised detail.*

RFI 154**.....** Please clarify where spec section 095300 - Wood Baffle Ceiling and Wall System applies to the project.

Answer.....*Spec section 09 53 00 is not used.*

RFI 155**.....** Can you please confirm that $1M Single/$2M Aggregate General Liability and $8M Umbrella/Excess is sufficient for subcontractors on this project?

Answer.....*Please see General Conditions; Article 11; Section 11.1.2 and 11.1.3.*

RFI 156**.....** This proposal is to request that the use of Viega Megapress fitting technology be allowed in place of material for galvanized fittings within the defined scope of work. Please see attached RFI Request reflecting additional information regarding this request.

Answer.....*Press-system is not a form of joining galvanized/black steel pipe and fittings material per Contract Documents and Specifications.*

RFI 157**.....** This proposal is to request that the use of Viega Propress fitting technology be allowed in place of any brazing or soldering material for copper fittings within the defined scope of work for the water system. Please see attached RFI Request reflecting additional information regarding this request.

Answer.....*Press-system is not a form of joining copper pipe and fittings material per Contract Documents and Specifications.*

RFI 158**.....** Please confirm 6" wide metal studs will be acceptable at all locations where '550' (5-1/2") wide studs are shown (e.g. 14/A9.3).

Answer.....*6" metal studs are acceptable in lieu of 5-1/2" metal studs at the canopy.*

RFI 159**.....** Light cove detail 32/A10.44 not found referenced. Please clarify if this detail applies and if so, please provide all ceiling locations where it occurs.

Answer.....*Light cove detail 32/A10.44 is not being used.*

RFI 160**.....** Please reference 51/S8.4. Please indicate all wall-hung items that apply to each metal backing detail (A, B, & C) shown. Including but not limited to each of following wall hung items, where shown at metal stud walls: Restroom mirrors, restroom grab bars, wall mounted cabinets, and wall mounted monitors

Answer.....*Reference note E1 on A12.2.*

RFI 161 Please reference A3.2 at detail references 11/A14.2 along grid line B. This detail conflicts with wall types indicated along grid line B, where detail reference 11/A14.2 is shown – Wall Types W6B and W7G show gypsum board full height both sides of wall per A8.1. However, 11/A14.2 shows gypsum board at wall terminating +0'-6" above ceiling height. Please clarify and also provide opposite side of detail 11/A14.2 where gypsum board soffit meets APC-1 ceiling.

Answer.....*Gypsum board should be installed full height to underside of deck or plywood sheathing structure above, typical. Where GB and APC ceiling meet and align in elevation, refer to 22/A10.44. Refer to note N on A3.2 and A3.3.*

RFI 162 Please reference A3.2 at interior soffit detail reference 36/A14.2 parallel and between grid lines 9.1 & 9.3. This detail occurs at the new addition with metal stud framing, however this detail shows wood framing. Please provide revised detail to show required metal framing. Please confirm this applies at all interior soffits, at the new addition only, indicated with keynote 9.08..

Answer.....*Disregard Keynote 9.08 detail reference to 36/A14.2. All new gypsum board ceilings in new construction side to be framed per 41/S8.3, per Note M on A3.2. In this location, GB is flush with APC, reference 22/A10.44.*

RFI 163 Reference 6/A9.0 – Wall type X-0 regarding note 'New (1 or 2) layers of gypsum board for flush finish at wall' and General Architectural Note C/A1.2 & A1.3. Wall type X-0 occurs at existing wood stud framed walls, where shown (existing building area). However, all wood wall types per sheet A8.1 only show one layer of gypsum board per wall sections and only indicate one layer of gypsum board, both sides where applicable, per wall type descriptions. We assume this is in reference to where new plywood shear wall sheathing is shown to be installed. Other information found regarding this item as follows: Structural details 25 & 26/S6.6 show new plywood sheathing butting to existing sheathing and Section 061000 – Rough Carpentry indicates 'wall' sheathing to be plywood per #2.3.B. It makes more sense (e.g. schedule) to in-fill the wall gaps with plywood sheathing concurrently with the new plywood structural shear sheathing installation so the wall substrate is flush prior to installation of the new gypsum board. Please confirm this is acceptable

Answer.....*It is acceptable to in-fill gaps with plywood sheathing so the wall substrate is flush prior to installation of new gypsum board as long as it does not damage structural plywood sheathing.*

RFI 164 Reference General Architectural Note C/A1.2 & A1.3. Wall types at the existing building are wall type 6A, UNO. Please confirm this applies to new wood framed walls only without wall type markers since some walls are existing to remain as is – e.g. interior walls at STAIRS A127, JAN A-114, ELEV A-115, ELEV RM A-116, demising wall between ELEC A-126 & MAINT A-125 (except for length with wall type W6A) and STAIRS A-102 except at walls with wall markers (sim. at 2nd floor).

Answer.....*This note applies to new wood framed walls without wall type markers at the existing building. Refer to drawings for work at locations listed above; including, but not limited to the Floor Plans and Finish Floor Plans.*

RFI 165 Reference demo floor plans A1.0 & A1.1. Please confirm new gypsum board, or cement board (tile backer board) where occurs, over existing wood stud framed walls after demolition occurs per keynotes 2.05, 2.07, & 2.15 only applies on the walls to the height of the existing wood framed ceilings where occurs (e.g. restrooms). Please confirm no gypsum board will be required on existing walls above the existing wood framed ceilings since these keynotes call for demolition of finishes only.

Answer.....*Replacement gypsum board or cement board should be installed full height to underside of deck or plywood sheathing structure above, typical. See Note 'O' on A3.2 and A3.3.*

RFI 166 Please reference 5/A6.1 which occurs along grid lines 8 & 8.1, between grid lines A-B. The wall along grid line 8 is existing, and indicates exterior lath & plaster full-height as shown. Since this wall is existing and this is where the first floor demolition will start per A1.0 (no demolition at second floor this area), it's assumed that the lath & plaster is existing above the existing first floor building area and that horizontal plaster patching will be required only where the existing first floor roof line will be removed.

It's also assumed that the remainder of the existing plaster above will remain and be painted only per wall type X-0, per 6/A9.0. Are our assumptions correct? Please clarify and provide an elevation or details as needed

Answer.....*The existing lath and plaster above the first-floor roof line can remain, provided that the final finish of this concealed wall is a complete and watertight system. The final plaster that will be concealed does not need to be painted.*

RFI 167 ..... Reference S1.2. New shearwall markers 'D' (2 each) are shown at existing exterior wall along grid line D, between grid lines 7 & 8. This calls for new plywood shear sheathing on both sides of the wall per 41/S6.1. This is not indicated per exterior elevation 4/A4.2. Will new exterior lath & plaster be required at this wall area, full-height above existing CMU wainscot? Please clarify. We assume exterior wall gaps will be in-filled with plywood sheathing similar to item #1 above.

Answer.....*No replacement of existing sheathing is required for walls with halftone symbols unless sheathing is damaged during construction, or removed due to the addition of hold-downs, conduits, and pipes per pertinent details; in which case this kind of work can proceed from the inside where it causes less impact to the façade. If there is a shear wall with a full tone symbol, this is an indication of new shear panels per 41/S6.1, for single sheathing, the sheathing should be shown on sections; it can also be assumed that it's located on the interior side of the building, UNO.*

RFI 168 ..... Reference 2A/A11.11 and similar. The type of framing at the freestanding desks and island counters per 54 & 56/A14.6 and 33 & 34/A14.6 is not clear. The details show conflicting information regarding the framing and there are no wall types shown for this framing. Will these be prefabricated with wood framing only (millwork), offsite by others? Please confirm or clarify.

Answer.....*Reference revised details 33, 34, 54 & 56/A14.6 for low wall framing information.*

A. PROJECT MANUAL - Narrative of Changes

1. SECTION 07 26 00 – VAPOR RETARDERS

A. ADDED Under-slab vapor retarders, products, accessories, and installation information.

2. SECTION 28 31 00 – ANALOG ADDRESSABLE FIRE ALARM SYSTEM

A. REVISED portions of Part 1, 1.1, Section A.

B. DRAWINGS – Narrative of Changes

1. SHEET A0.4 – DETAILS - SITE

A. Added Note 3 in Detail 54/A0.4.

2. SHEET A3.2 – FIRST FLOOR REFLECTED CEILING PLAN

A. Added REFLECTED CEILING PLAN GENERAL NOTES 'N', 'O', and 'P'.

3. SHEET A3.3 – SECOND FLOOR REFLECTED CEILING PLAN

A. Added REFLECTED CEILING PLAN GENERAL NOTES 'N', 'O', and 'P'.

4. SHEET A6.1 WALL SECTIONS

A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

5. SHEET A6.2 WALL SECTIONS

A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

6. SHEET A6.3 WALL SECTIONS
   A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

7. SHEET A6.4 WALL SECTIONS
   A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

8. SHEET A6.5 WALL SECTIONS
   A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

9. SHEET A6.6 WALL SECTIONS
   A. Details updated to provide clarity for structural connections, member sizes, and drift joint locations.

10. SHEET A9.1 EXTERIOR DETAILS
    A. Detail 51 updated to provide clarity for structural connections, member sizes, and drift joint locations.

11. SHEET A10.03 – ELEVATOR DETAILS
    A. Revised detail 51/ & 55/A10.03.

12. SHEET A11.10 – INTERIOR ELEVATIONS – TRANS. CTR. TYP. CLASSROOMS, SKILL LAB
    A. Revised detail reference on 1A/A11.10.

13. SHEET A13.A – FINISH PLAN – LEVEL 1
    A. Revised floor finish tag at B-101.

14. SHEET A13.B – FINISH PLAN – LEVEL 2
    A. Revised floor finish tag at A-205.

15. SHEET A14.6 – CASEWORK DETAILS
    A. Revised details 14, 24, 33, 34, 54 and 56/A14.6.

16. SHEET S1.3 - ROOF STRUCTURAL PLAN
    A. Edge of Slab along Grid 10.9 extended 6.75 inches plan left.

17. SHEET S2.2 EXTERIOR WALL ELEVATIONS
    A. Detail 15 background updated to align with annotations.
    B. Detail 21 Stud callout made 600S162-54 (no change to stud size, only callout clarified).
    C. Detail 21 Studs at Level 03 broken to reflect extended slab edge.
    D. Detail 21 Connections for studs near level 03 updated to reflect extended slab edge condition.

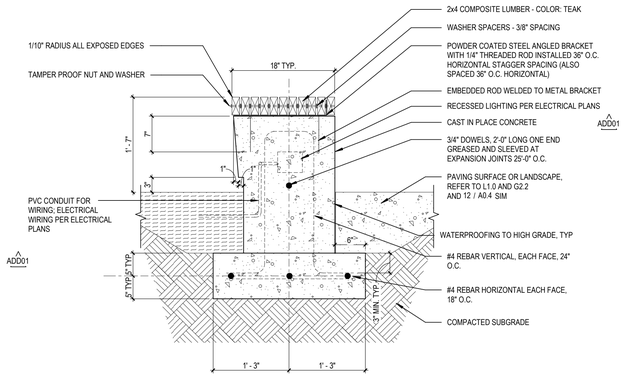
18. SHEET S8.1 TYPICAL EXTERIOR METAL STUD DETAILS
    A. Detail 34 updated to use Simpson DSSCB46 and 48 ICC ESR-4294 to used fixed option where needed.

INCLUDED ATTACHMENTS:

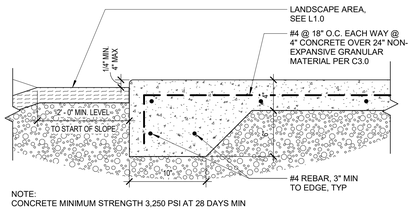
Drawings: A0.4, A3.2, A3.3, A6.1, A6.2, A6.3, A6.4, A6.5, A6.6, A9.1, A10.03, A11.10, A13.A, A13.B, A14.6, S1.3, S2.2, S8.1

Specification Sections: 07 26 00, 28 31 00

**** END OF ADDENDUM 04 ****

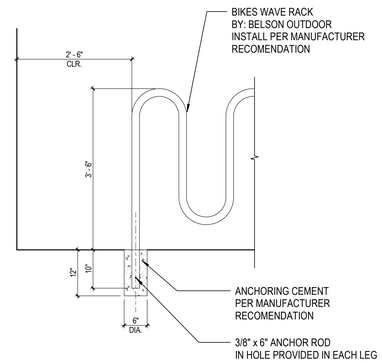


11 A0.4 CONCRETE SEAT WALL WITH WOOD CAP
SCALE: 1" = 1'-0"

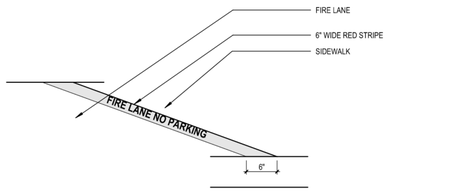


NOTE:
CONCRETE MINIMUM STRENGTH 3,250 PSI AT 28 DAYS MIN

12 A0.4 EDGE OF CONCRETE AT LANDSCAPE
SCALE: 1 1/2" = 1'-0"

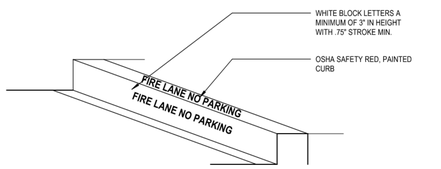


15 A0.4 BIKE RACK - MOUNTING DETAIL
SCALE: 3/4" = 1'-0"



1. WHERE NO CURB EXISTS OR A ROLLED (ZERO CURB) IS INSTALLED, A SIX (6) INCH WIDE RED STRIP OR APPROVED POSTED SIGNS APPLIED THE FULL LENGTH OF THE FIRE APPARATUS ACCESS ROAD SHALL BE INSTALLED.
2. THE DISTANCE BETWEEN SIGNS SHALL BE DETERMINED DURING PLAN REVIEW.

B. ZERO CURB CONDITION

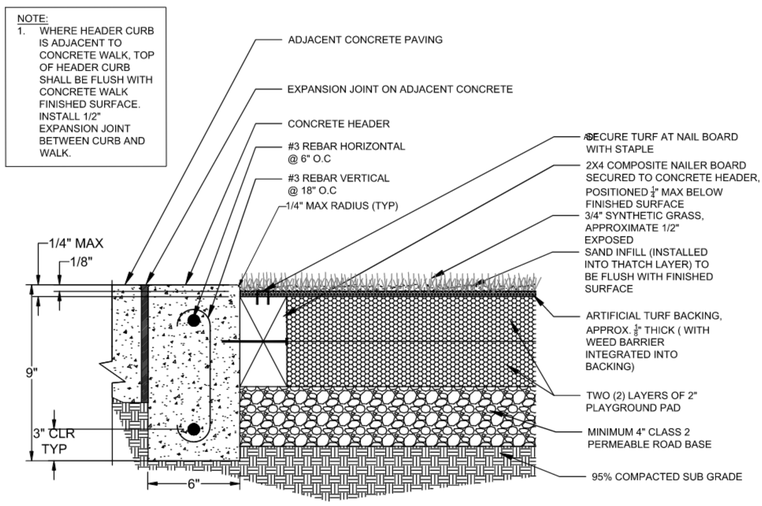


A. CURB CONDITION

1. STENCILS SHALL BE APPLIED TO THE PAINTED, CURBS AT THE FENCE AND TOP OF CURB. AT LEAST EVERY 100'-0" OR AT EACH "ISLAND" OR OTHER FEATURE DELINEATING THE DESIGNATED FIRE LANE.
2. THE STENCIL SHALL INDICATE "FIRE LANE NO PARKING", SHALL HAVE LETTERS 3" HIGH WITH A STROKE OF AT LEAST .75" AND UTLIZE "HIGHWAY WHITE" PAINT.

31 A0.4 FIRE LANE CURB PAINTING
SCALE: 1" = 1'-0"

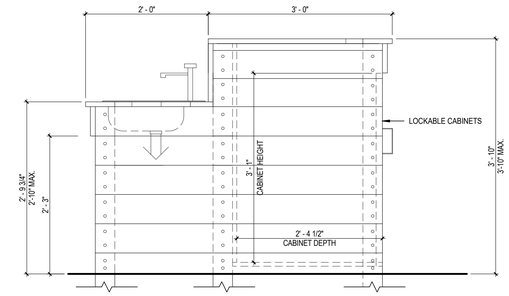
NOTE:
1. WHERE HEADER CURB IS ADJACENT TO CONCRETE WALK, TOP OF HEADER CURB SHALL BE FLUSH WITH CONCRETE WALK FINISHED SURFACE. INSTALL 1/2" EXPANSION JOINT BETWEEN CURB AND WALK.



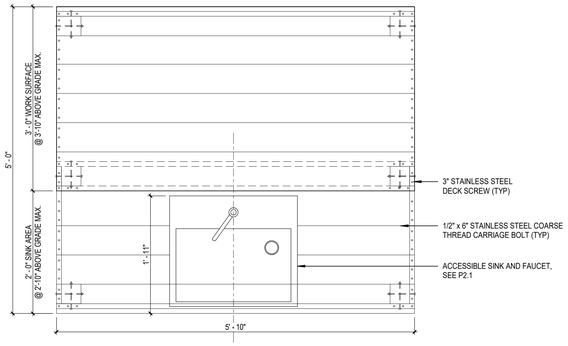
SECTION

*OR APPROVED EQUAL - INSTALL PER MANUFACTURES RECOMMENDATIONS

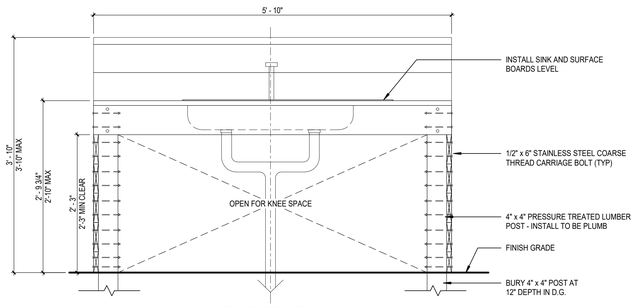
33 A0.4 CONCRETE TO TURF
SCALE: 3" = 1'-0"



SIDE ELEVATION



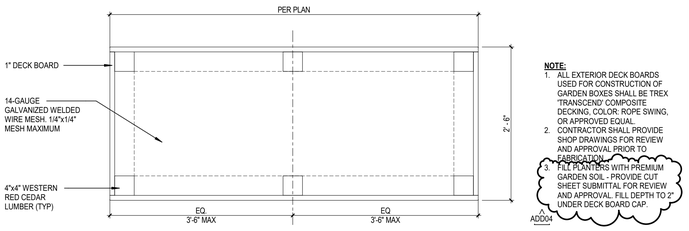
PLAN



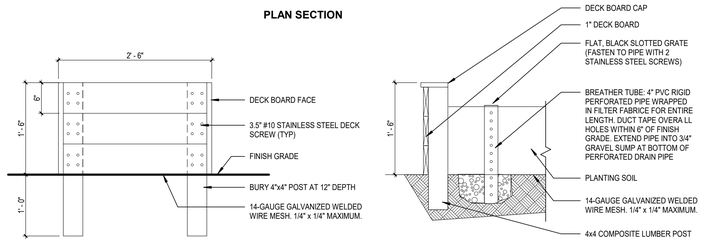
FRONT ELEVATION

NOTE:
1. ALL EXTERIOR DECK BOARDS USED FOR CONSTRUCTION OF THE WORK TABLES SHALL BE TREX 'TRANSCEND' COMPOSITE DECKING, COLOR: ROPE SWING, OR APPROVED EQUAL.
2. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

34 A0.4 WORK TABLE AND SINK DETAIL
SCALE: 1" = 1'-0"



PLAN SECTION



SIDE ELEVATION **SECTION**

BASED UPON PERCOLATION TESTING, AUGER DOWN UNTIL POROUS SOIL IS ENCOUNTERED FOR POSITIVE DRAINAGE

54 A0.4 PLANTER BOX DETAILS
SCALE: 1" = 1'-0"

LICENSED ARCHITECT
LEE MILLER
No. C-23506
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

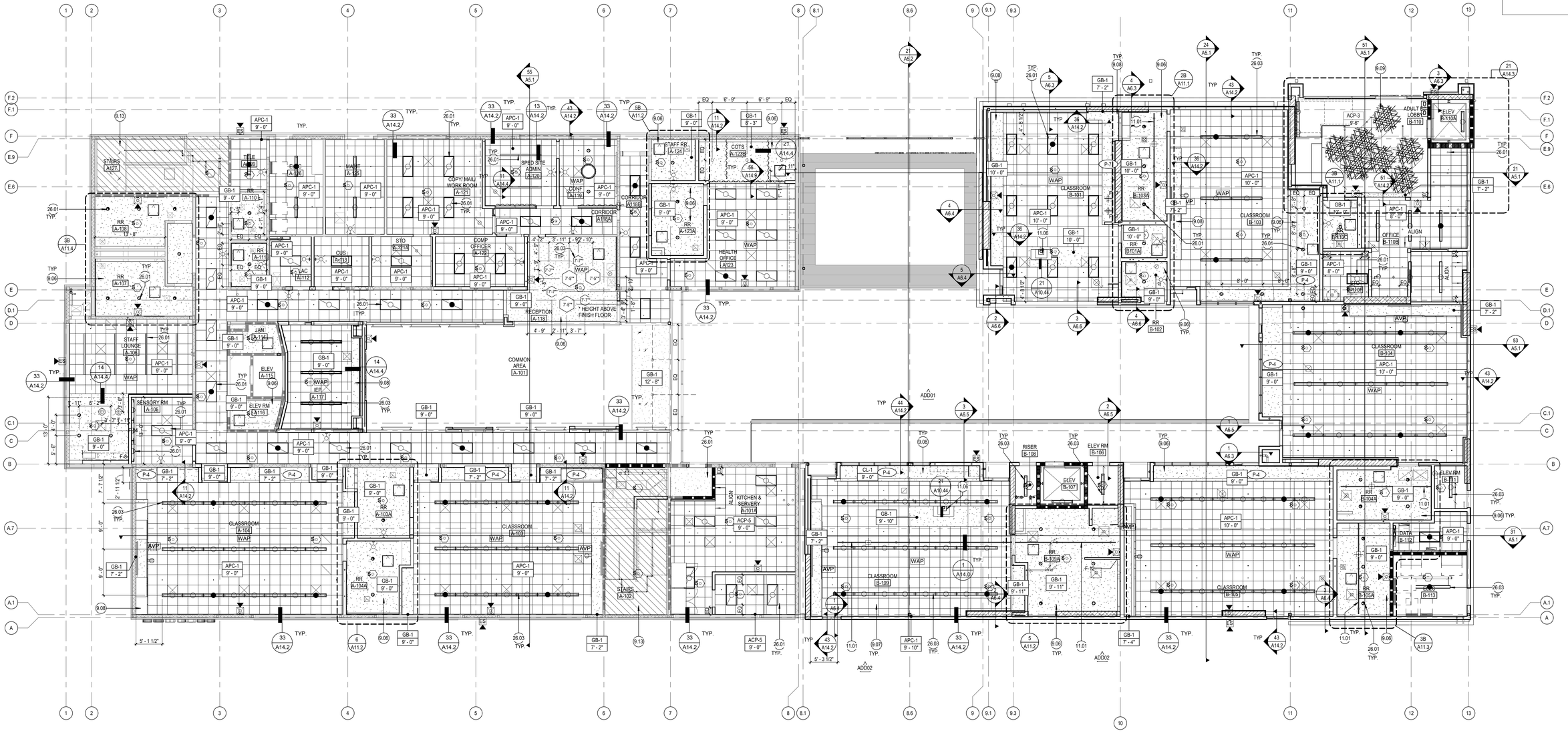
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

1	ADD01	09/26/2024
4	ADD04	12/2/2024

DETAILS - SITE

A0.4



REFLECTED CEILING PLAN, LEVE 1

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.
J. PAINT ALL EXPOSED SURFACES, EXPOSED MECHANICAL EQUIPMENT, STRUCTURAL MEMBERS, ELECTRICAL CONDUIT WIRING AND SUPPORT: **P-1**.
K. ALL CEILING ARE NEW WORKS, U.O.N.
L. CENTER CEILING TILE OR GRID IN THE ROOMS, U.O.N.
M. ALL NEW GYPSUM BOARD CEILINGS IN THE EXISTING BUILDING ARE TO BE FRAMED WITH WOOD PER 56/S6.2. ALL NEW GYPSUM BOARD CEILINGS ON THE NEW CONSTRUCTION SIDE TO BE FRAMED WITH METAL PER 41/S8.3. AD001
N. REFER TO DETAIL 22/A10.44 FOR THE TYPICAL TRANSITION DETAIL BETWEEN GYPSUM BOARD CEILING TO ACOUSTICAL CEILING TILES THAT ARE FLUSH / AT THE SAME ELEVATION.
O. ALL NEW AND REPLACEMENT GYP BOARD FINISHES SHOULD BE INSTALLED FULL HEIGHT TO UNDERSIDE OF DECK OR PLYWOOD SHEATHING STRUCTURE ABOVE, TYPICAL.
P. EXISTING INSULATION THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION IS TO BE REPLACED WITH NEW.

AD004

REFERENCE KEYNOTES

Key Value	Keynote Text
9.06	FRAMED GYP. BOARD CEILING, SEE AND SPECS SECTION 09 29 00
9.07	SUSPENDED ACT CEILING, SEE AND SPECS SECTION 09 51 13
9.08	FRAMED GYP. BOARD SOFFIT, SEE NOTE N
9.09	ACOUSTICAL CEILING CLOUD SYSTEM, SEE A14.3 FOR CEILING DETAILS.
9.13	REMOVE AND REPLACE DAMAGED TILES WITH ACP-1; PATCH AND REPAIR AS REQUIRED FOR FIRE ALARM & SPRINKLER.
11.01	OVERHEAD MOUNTED HOIST TRANSVERSE SYSTEM; SEE 1/A14.0 & 5/A14.0 FOR DETAILS
11.06	RANGE HOOD LOCATION, SEE 21/A10.44
26.01	LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS
26.03	PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

AD004

REFLECTED CEILING PLAN LEGEND

- ACOUSTIC CEILING TILE IN SUSPENDED GRID (2X2)
- ACOUSTIC CEILING TILE IN SUSPENDED GRID (2X4)
- GYPSUM BOARD CEILING (GB-1), PAINTED P-1 U.N.O.
- MINIMAL CEILING SCOPE; PATCH AND REPAIR AS REQUIRED
- EXPOSED STRUCTURAL DECK, PAINTED PT-1 U.N.O. EXPOSED STRUCTURAL, DUCTS, CONDUIT, PIPES, PAINTED PT-1 U.N.O.
- DENOTES CEILING TYPE AND HEIGHT
- OPEN TO STRUCTURE, HEIGHT VARIES
- PANEL TO CONTAIN NO ACOUSTIC CEILING TILE
- MECHANICAL SUPPLY GRILLE
- MECHANICAL RETURN GRILLE
- MECHANICAL EXHAUST GRILLE
- ACCESS PANEL, SEE 14 / A14.2
- SMOKE DETECTOR
- LIGHTING FIXTURE
- FA STROBE
- CEILING SPEAKER. COORDINATE REQUIREMENTS AND WIRING WITH DISTRICT AND MANUFACTURER
- EXIT SIGN

NOTE:
1. SEE INTERIOR FINISH SCHEDULE ON SHEET A12.1 AND A12.2 FOR CEILING TYPE SPECIFICATIONS.
2. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE SHEET E0.3

WINDOW SHADE DETAIL

WINDOW SHADE WALL MOUNT NO POCKET, SEE DETAIL — 46 / A14.2 TYP
WINDOW SHADE WALL MOUNT WITH RECESSED POCKET AT ACOUSTI CEILING PANEL, SEE DETAIL — 43 / A14.2 TYP
WINDOW SHADE WALL MOUNT WITH RECESSED POCKET AT GYP.BD. CEILING, SEE DETAIL — 44 / A14.2 TYP

LICENSED ARCHITECT — LESLIE MILLER — No. C-23506 — REN. 10-31-25 — STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

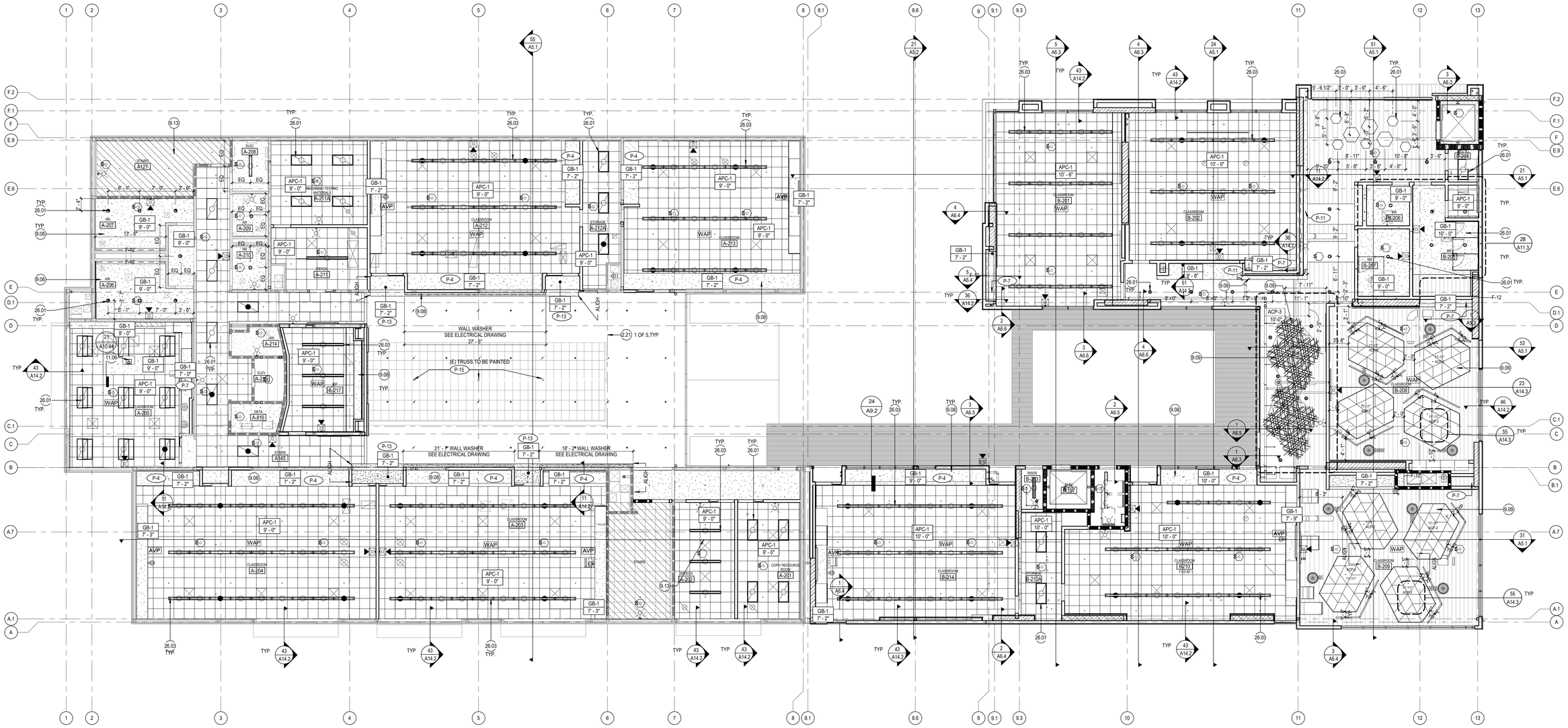
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

1	ADD01	09/26/2024
2	ADD02	10/07/2024
4	ADD04	12/2/2024

FIRST FLOOR REFLECTED CEILING PLAN

A3.2



REFLECTED CEILING PLAN, LEVEL 2

SCALE: 1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

A. REFLECTED CEILING PLAN GENERAL NOTES APPLY TO ALL REFLECTED CEILING PLAN SHEETS.
B. ALL CEILING GRIDS/PANELS SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
C. CEILING HEIGHTS ARE NOTED ON THE REFLECTED CEILING PLANS ARE MEASURED FROM FINISH FLOOR OF THE ROOM.
D. ALL ELECTRICAL FIXTURES, SPEAKERS, SMOKE AND THERMAL DETECTORS, MECHANICAL GRILLES, SPRINKLER HEADS, AND OTHER CEILING MOUNTED DEVICES, SHALL BE CENTERED BETWEEN CEILING GRIDS UNLESS NOTED OTHERWISE. SPRINKLER HEADS SHALL BE WITHIN A 3-INCH RADIUS CENTERED BETWEEN CEILING GRIDS.
E. IN ACOUSTICAL CEILING PANELS WITH SCORE IN THE CENTER, CENTER DEVICES REFERENCE IN NOTE D IN ONE HALF OF THE TILE. DO NOT LOCATE ON THE SCORE. FOR APC WITH MULTIPLE SCORED PATTERNS, COORDINATE LOCATION WITH THE ARCHITECT.
F. PROVIDE SUSPENSION SYSTEM AROUND ELECTRICAL FIXTURES, MECHANICAL GRILLES, DIFFUSERS, AND OTHER CEILING MOUNTED DEVICES, AT ACOUSTICAL PANEL CEILINGS.
G. ALL DIMENSIONS ON REFLECTED CEILING PLANS ARE ACTUAL AND ARE TO THE FOLLOWING UNLESS NOTED OTHERWISE:
   a. FACE OF FINISHED WALL
   b. FACE OF FINISHED BULKHEADS
   c. CENTERLINE OF COLUMNS
   d. CENTERLINE OF TEES
H. IN AREAS WITH EXPOSED STRUCTURE CEILINGS, COORDINATE EXACT LOCATIONS OF MECHANICAL GRILLES, DIFFUSERS, DUCTWORK AND ELECTRICAL FIXTURES WITH EACH REPRESENTATIVE SUBCONTRACTOR.
I. ALL WALLS EXTEND TO UNDERSIDE OF DECK EXCEPT THOSE SHOWN SHADED IN WHICH GYPSUM BOARD OR MASONRY EXTENDS MIN 4 INCHES ABOVE FINISHED CEILING. ALL METAL STUDS EXTEND TO UNDERSIDE OF FLOOR OR ROOF DECK.
J. PAINT ALL EXPOSED SURFACES, EXPOSED MECHANICAL EQUIPMENT, STRUCTURAL MEMBERS, ELECTRICAL CONDUIT WIRING AND SUPPORT: **P-1**.
K. ALL CEILING ARE NEW WORKS, U.O.N.
L. CENTER CEILING TILE OR GRID IN THE ROOMS, U.O.N.
M. ALL NEW GYPSUM BOARD CEILINGS IN THE EXISTING BUILDING ARE TO BE FRAMED WITH WOOD PER 56/S6.2. ALL NEW GYPSUM BOARD CEILINGS ON THE NEW CONSTRUCTION SIDE TO BE FRAMED WITH METAL PER 41/S8.3. ADD01
N. REFER TO DETAIL 22/A10.44 FOR THE TYPICAL TRANSITION DETAIL BETWEEN GYPSUM BOARD CEILING TO ACOUSTICAL CEILING TILES THAT ARE FLUSH / AT THE SAME ELEVATION.
O. ALL NEW AND REPLACEMENT GYP BOARD FINISHES SHOULD BE INSTALLED FULL HEIGHT TO UNDERSIDE OF DECK OR PLYWOOD SHEATHING STRUCTURE ABOVE, TYPICAL.
P. EXISTING INSULATION THAT IS REMOVED OR DAMAGED DURING CONSTRUCTION IS TO BE REPLACED WITH NEW.

ADD04

REFERENCE KEYNOTES

Key Value	Keynote Text
2.21	EXISTING EXPOSED TUBE STEEL TRUSSES TO REMAIN. CLEAN, PREP, AND PREPARE FOR STEEL TO BE PAINTED.
9.06	FRAMED GYP. BOARD CEILING, SEE AND SPECS SECTION 09 29 00
9.08	FRAMED GYP. BOARD SOFFIT (SEE NOTE M) ADD04
9.09	ACOUSTICAL CEILING CLOUD SYSTEM. SEE A14.3 FOR CEILING DETAILS.
9.13	REMOVE AND REPLACE DAMAGED TILES WITH ACP-1; PATCH AND REPAIR AS REQUIRED FOR FIRE ALARM & SPRINKLER.
11.06	RANGE HOOD LOCATION. SEE 21/A10.44
26.01	LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS
26.03	PENDANT LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS

REFLECTED CEILING PLAN LEGEND

- ACOUSTIC CEILING TILE IN SUSPENDED GRID (2X2)
- ACOUSTIC CEILING TILE IN SUSPENDED GRID (2X4)
- GYPSUM BOARD CEILING (GB-1), PAINTED P-1 U.N.O.
- MINIMAL CEILING SCOPE; PATCH AND REPAIR AS REQUIRED
- EXPOSED STRUCTURAL DECK, PAINTED PT-1 U.N.O. EXPOSED STRUCTURAL, DUCTS, CONDUIT, PIPES, PAINTED PT-1 U.N.O.
- DENOTES CEILING TYPE AND HEIGHT
- OPEN TO STRUCTURE, HEIGHT VARIES
- PANEL TO CONTAIN NO ACOUSTIC CEILING TILE
- MECHANICAL SUPPLY GRILLE
- MECHANICAL RETURN GRILLE
- MECHANICAL EXHAUST GRILLE
- ACCESS PANEL, SEE 14 / A14.2
- SMOKE DETECTOR
- LIGHTING FIXTURE
- FA STROBE
- CEILING SPEAKER. COORDINATE REQUIREMENTS AND WIRING WITH DISTRICT AND MANUFACTURER
- EXIT SIGN

NOTE:
1. SEE INTERIOR FINISH SCHEDULE ON SHEET A12.1 AND A12.2 FOR CEILING TYPE SPECIFICATIONS.
2. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE SHEET E0.3

LICENSED ARCHITECT
LESLIE MILLER
No. C-23306
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

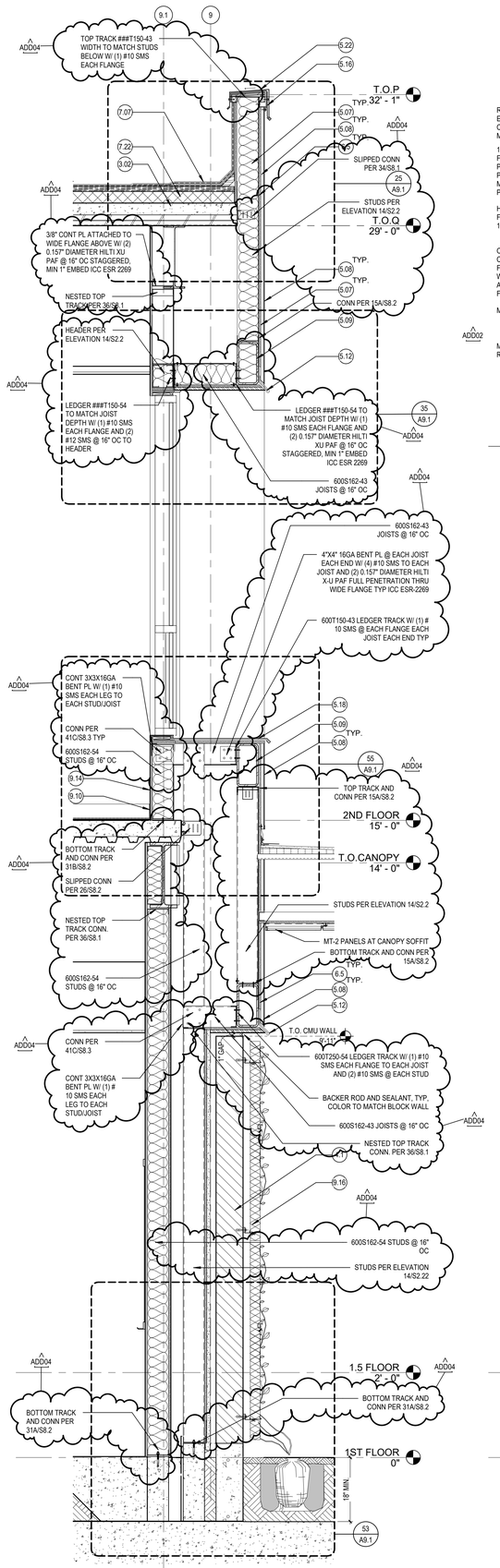
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

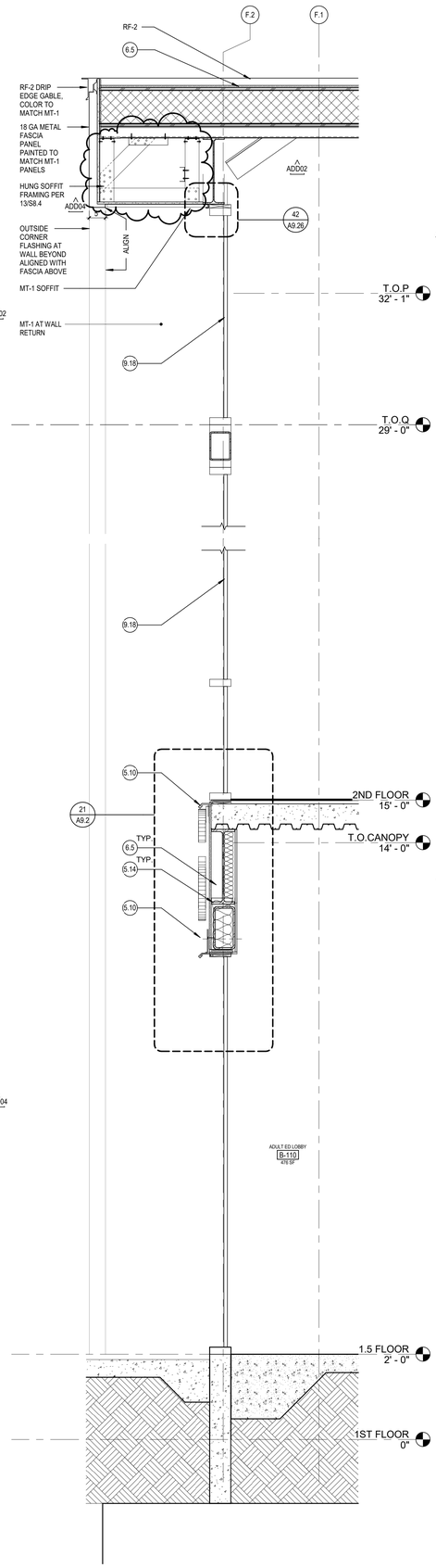
1	ADD01	09/26/2024
4	ADD04	12/2/2024

SECOND FLOOR REFLECTED CEILING PLAN

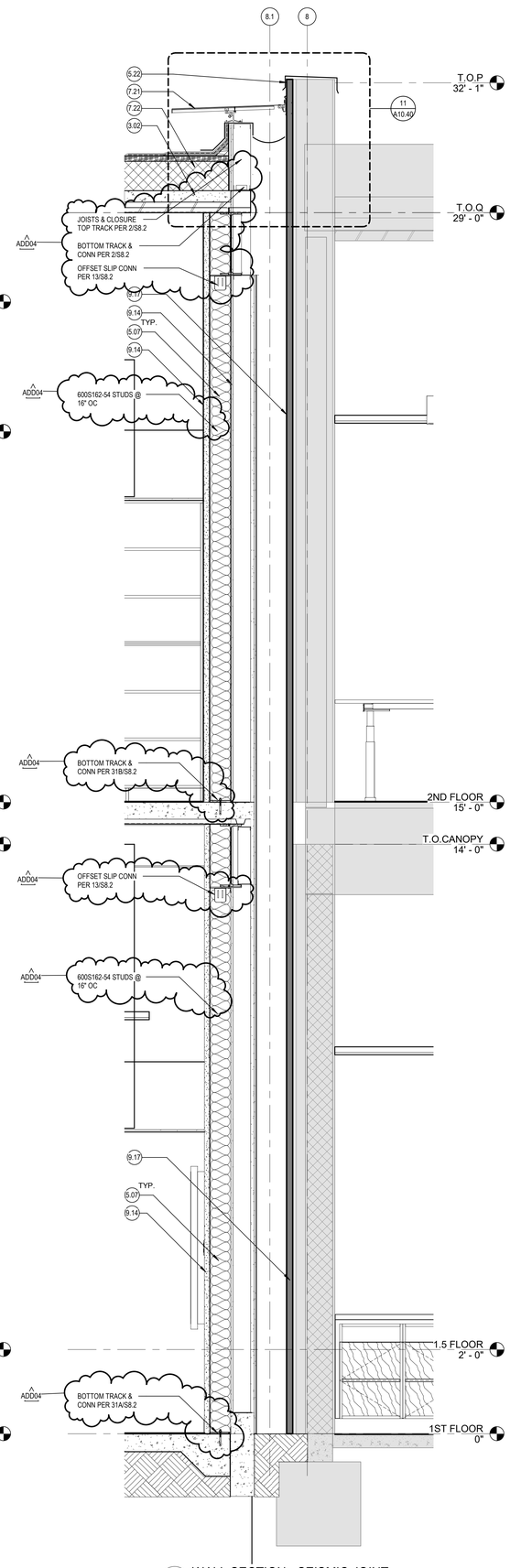
A3.3



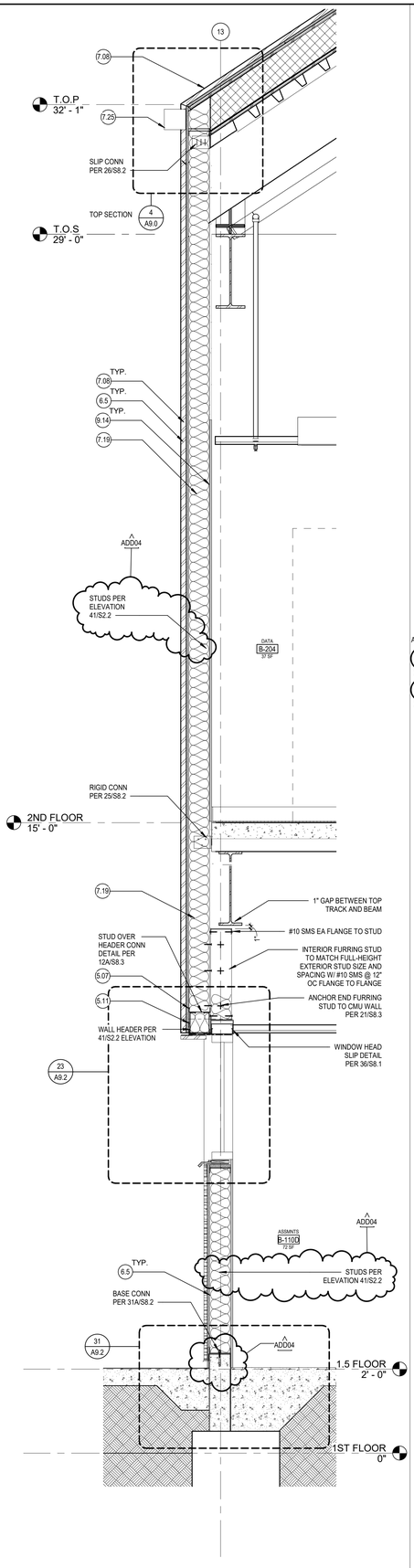
3 A6.1 WALL SECTION - GREEN WALL
SCALE: 3/4" = 1'-0"



4 A6.1 WALL SECTION - WP-1
SCALE: 3/4" = 1'-0"



5 A6.1 WALL SECTION - SEISMIC JOINT
SCALE: 3/4" = 1'-0"



1 A6.1 WALL SECTION - EXPOSED GUTTER
SCALE: 3/4" = 1'-0"

Key Value	Keynote Text
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41/S5.2.
4.1	8" CMU WALL FOR WIRE PANEL PLANT SUPPORT SYSTEM ATTACHMENT. SEE 34/S4.1 AND 53/A9.1.
5.07	6" METAL STUD WALL, SEE 25&26/S8.2 FOR TOP & 31/S8.2 FOR BOTTOM CONNECTION AT EXTERIOR WALLS, TYPICAL. SEE 18/S8.1 FOR TOP CONNECTION & 21/S8.3 FOR BOTTOM CONNECTION AT INTERIOR WALLS, TYPICAL.
5.08	MT-1 METAL PANEL, SEE 4/A9.0
5.09	STRUCTURAL HSS, SEE STRUCTURAL ELEVATIONS ON S2.2 AND 41/S4.2, 51, S4.2, OR S4/S5.3
5.10	2-PIECE SHEET METAL FLASHING WITH DRIP EDGE
5.11	2X6" STUD HEADER, SEE STRUCTURAL ELEVATIONS ON S2.2 AND DETAILS ON S8.1
5.12	FLASHING, COLOR TO MATCH WALL FINISH, MIN. SLOPE 1/4":12"
5.14	MT-2 METAL PANEL, SEE 3/A9.0
5.16	CONTINUOUS MTL CLEAT-22 GA MIN.
5.18	METAL FLASHING PAINTED TO MATCH ADJACENT PANEL
5.22	COPING, COLOR TO MATCH WALL FINISH, SEE 32/A10.39.
6.5	PLYWOOD SHEATHING
7.07	SINGLE PLY ROOFING RF-1 PER 45/A10.39
7.08	STANDING SEAM ROOF RF-2
7.19	BATT INSULATION
7.21	EXPANSION CONTROL SYSTEM, SEE 07 95 00
7.22	THERMAL INSULATION
7.25	5" X 24 GA STEEL GUTTER
9.10	VINYL SKIRTING
9.14	5/8" GYPSUM BOARD
9.16	WELDED WIRE PANEL PLANT SUPPORT SYSTEM, SEE SPEC 32 94 00
9.17	7/8" LATH & PLASTER TO BE APPLIED PRIOR TO CONSTRUCTION CMU WALL
9.18	WP-1 TRANSLUCENT WALL PANEL FACADE SYSTEM, 12"X24" GRID, ICC ESR-2464

NOTES:
1. "ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W

LICENSED ARCHITECT LEE MILLER No. C-23506 REN. 10-31-25 STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

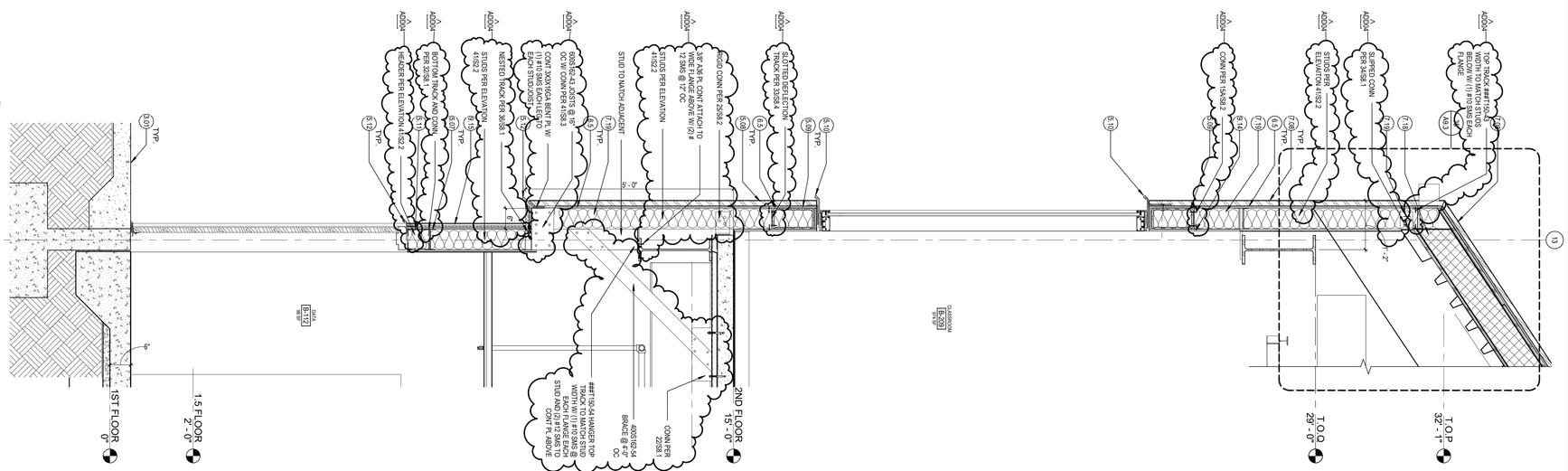
2	ADD02	10/07/2024
4	ADD04	12/2/2024

WALL SECTIONS

A6.1

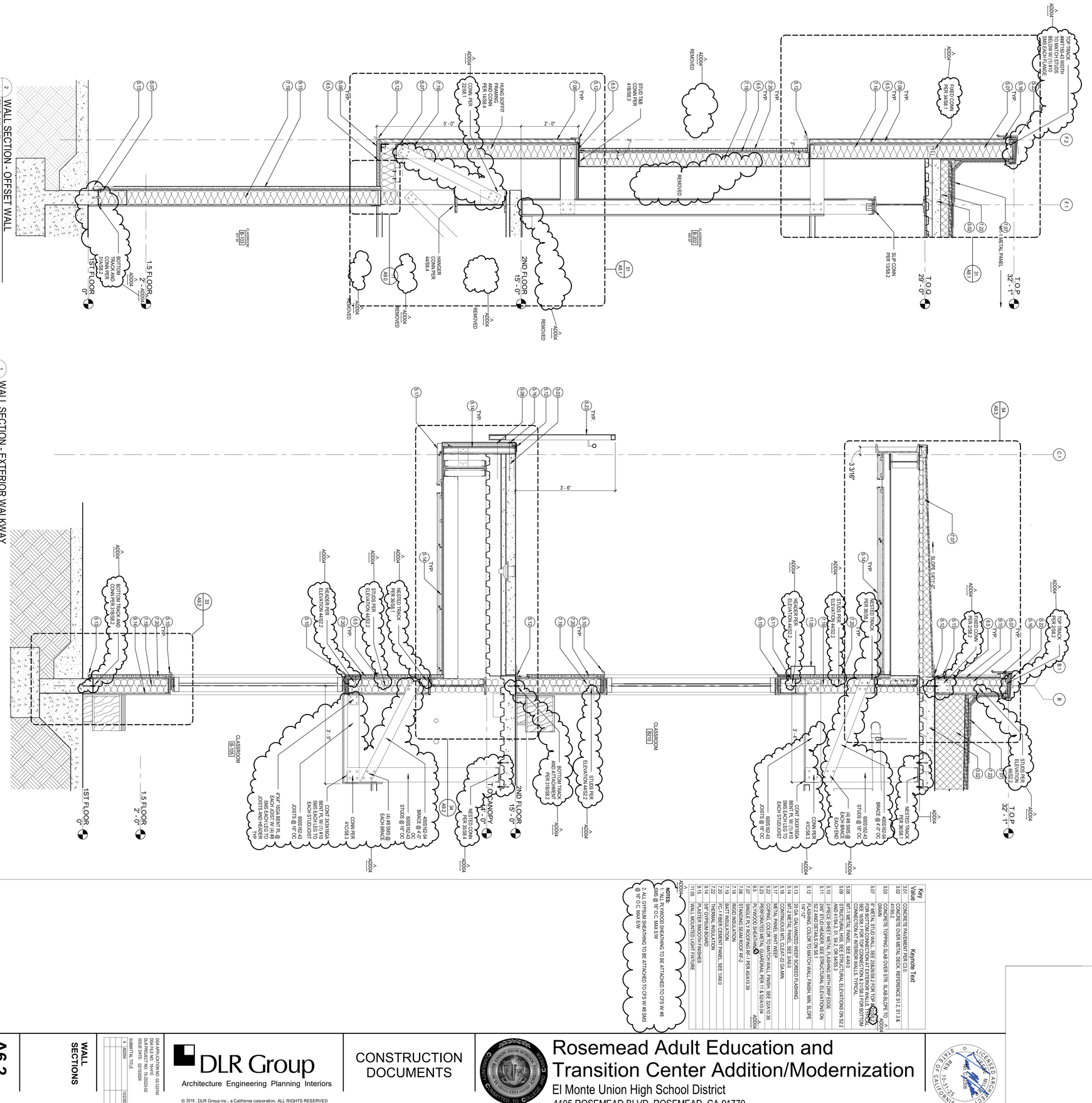
3 A6.2 / SCALE: 3/4" = 1'-0"

WALL SECTION 1 - NORTH ELEVATION



2 A6.2 / SCALE: 3/4" = 1'-0"

WALL SECTION - OFFSET WALL



1 A6.2 / SCALE: 3/4" = 1'-0"

WALL SECTION - EXTERIOR WALKWAY

Key Value	Keynote Text
3.01	CONCRETE PAVEMENT PER C31
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41SS2.2
3.03	CONCRETE TOPPING SLAB OVER STR. SLAB SLOPE TO DRAIN
5.07	6" METAL STUD WALL. SEE 2/A4/S9.2 FOR TOP ASSEMBLY. SEE 3/A4/S9.2 FOR BOTTOM CONNECTION AT EXTERIOR WALLS. TYPICAL CONNECTION AT INTERIOR WALLS. TYPICAL
5.08	MT1 METAL PANEL SEE 4/A9.0
5.09	STRUCTURAL HSS SEE STRUCTURAL ELEVATIONS ON S2.2
5.10	24GC SHEET METAL FLASHING WITH DRIP EDGE
5.11	2X6 STUD HEADER. SEE STRUCTURAL ELEVATIONS ON S2.2 AND DETAILS ON S9.1
5.12	PAINTED STEEL COLOR TO MATCH WALL FINISH. MIN. SLOPE 1/4":12"
5.13	20 GA. GALVANIZED WEEP SCREED FLASHING
5.14	MT2 METAL PANEL SEE 3/A9.0
5.17	CONTINUOUS FLUSH JOINT 3/4" O.A.W.
5.21	METAL PANEL WHITE WEEP
5.22	COPING, COLOR TO MATCH WALL FINISH. SEE 2/A10.09.
5.23	PERFORATED METAL QUARDRAIL PER 11 & SEA10.04
6.5	PLYWOOD SHEATHING PER 45H10.39
7.07	SLOPED ROOF PER
7.08	STANDING SEAM ROOF PER
7.18	RIGID INSULATION
7.19	BATT INSULATION
7.20	FC-1 FIBER CEMENT PANEL SEE 1/A9.0
8.12	PAINTED HOLLOW METAL DOOR
8.14	5/8" GYPSUM BOARD
9.15	PLASTER SMOOTH FINISHES
11.05	WALL MOUNTED LIGHT FIXTURE

NOTES:
1. ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 8" O.C. MAX EW
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX EW

DLR Group
Architecture Engineering Planning Interiors

CONSTRUCTION DOCUMENTS

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

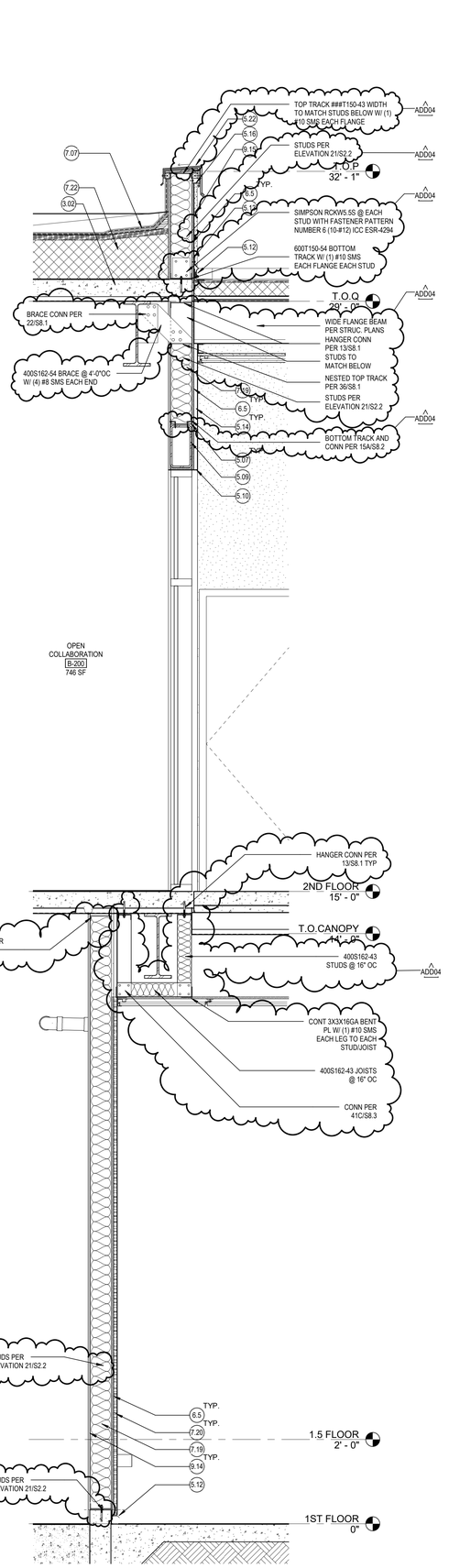
LICENSED ARCHITECT REGISTERED STATE OF CALIFORNIA

DSA APPLICATION NO: 03-122743
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

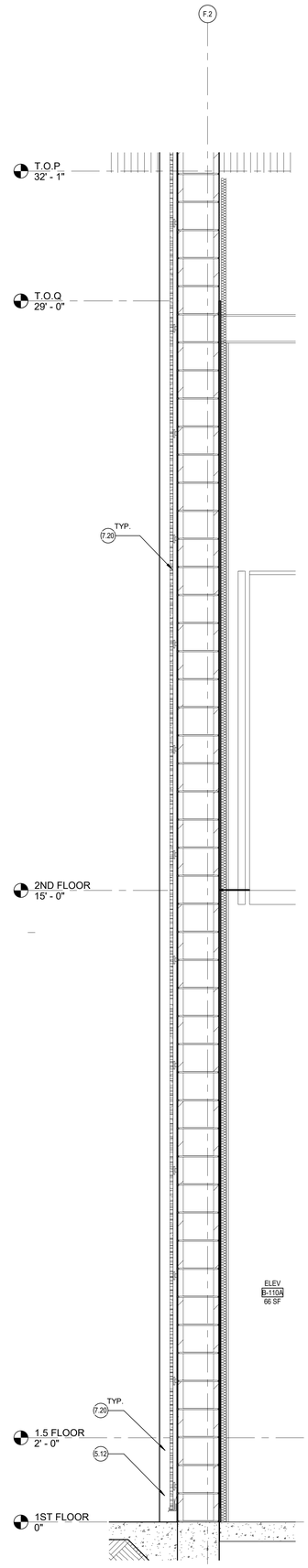
	SUBMITTAL TITLE	
4	ADDS	12/2/2024

WALL SECTIONS

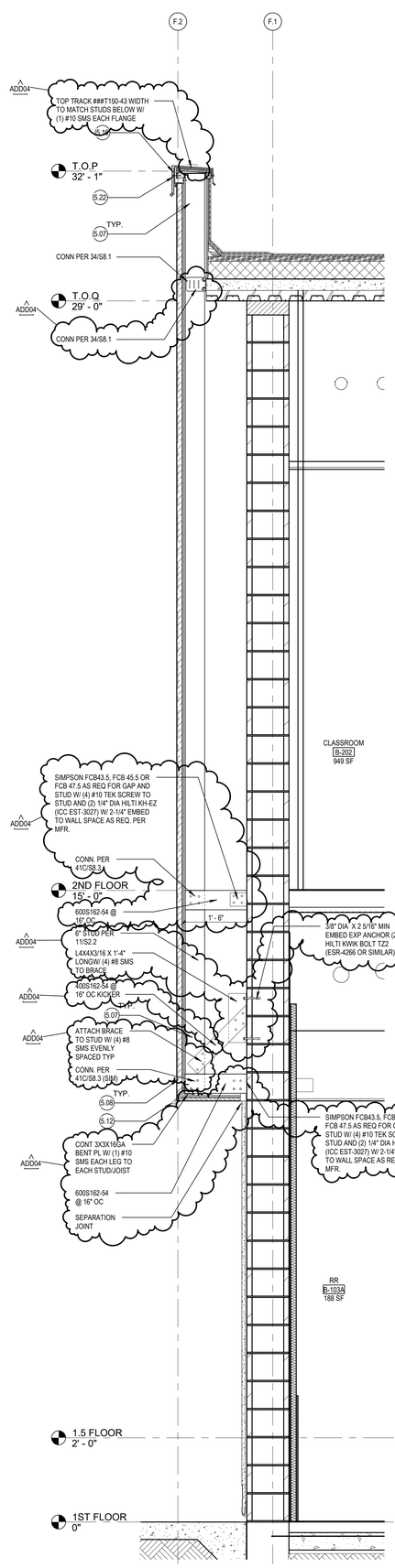
A6.2



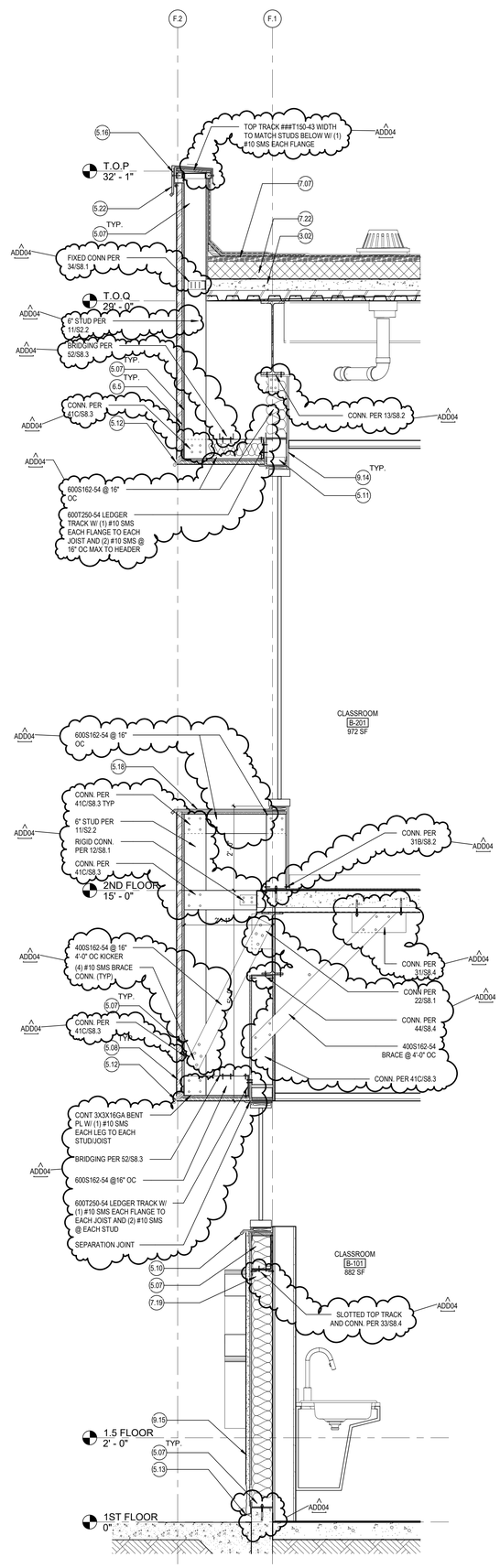
1 A6.3 WALL SECTION 2 - NORTH ELEV
SCALE: 3/4" = 1'-0"



3 A6.3 WALL SECTION 1 - WEST ELEVATION
SCALE: 3/4" = 1'-0"



4 A6.3 WALL SECTION 2 - WEST ELEVATION
SCALE: 3/4" = 1'-0"



5 A6.3 WALL SECTION 3 - WEST ELEVATION
SCALE: 3/4" = 1'-0"

Key Value	Keynote Text
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41/S5.2
5.07	6" METAL STUD WALL. SEE 25&26/S8.2 FOR TOP & 30/S8.2 FOR BOTTOM CONNECTION AT EXTERIOR WALLS, TYPICAL. SEE 16/S8.1 FOR TOP CONNECTION & 21/S8.3 FOR BOTTOM CONNECTION AT INTERIOR WALLS, TYPICAL.
5.08	MT-1 METAL PANEL, SEE 4/A9.0
5.09	STRUCTURAL HSS, SEE STRUCTURAL ELEVATIONS ON S2.2 AND 41/S4.2, 51, S4.2, OR 54/S5.3
5.10	2-PIECE SHEET METAL FLASHING WITH DRIP EDGE
5.11	2X6" STUD HEADER, SEE STRUCTURAL ELEVATIONS ON S2.2 AND DETAILS ON S8.1
5.12	FLASHING, COLOR TO MATCH WALL FINISH, MIN. SLOPE 1/4"/12"
5.13	20 GA. GALVANIZED WEEP SCREED FLASHING
5.14	MT-2 METAL PANEL, SEE 3/A9.0
5.16	CONTINUOUS MTL CLEAT-22 GA.MIN.
5.18	METAL FLASHING PAINTED TO MATCH ADJACENT PANEL
5.22	COPING, COLOR TO MATCH WALL FINISH, SEE 32/A10.39.
6.5	PLYWOOD SHEATHING
7.07	SINGLE PLY ROOFING RF-1 PER 45/A10.39
7.19	BATT INSULATION
7.20	FC-1 FIBER CEMENT PANEL, SEE 1/A9.0
7.22	THERMAL INSULATION
9.14	5/8" GYPSUM BOARD
9.15	PLASTER SMOOTH FINISHES

NOTES:
1. *ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W

LICENSED ARCHITECT
JESSE MILLER
No. C-42506
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

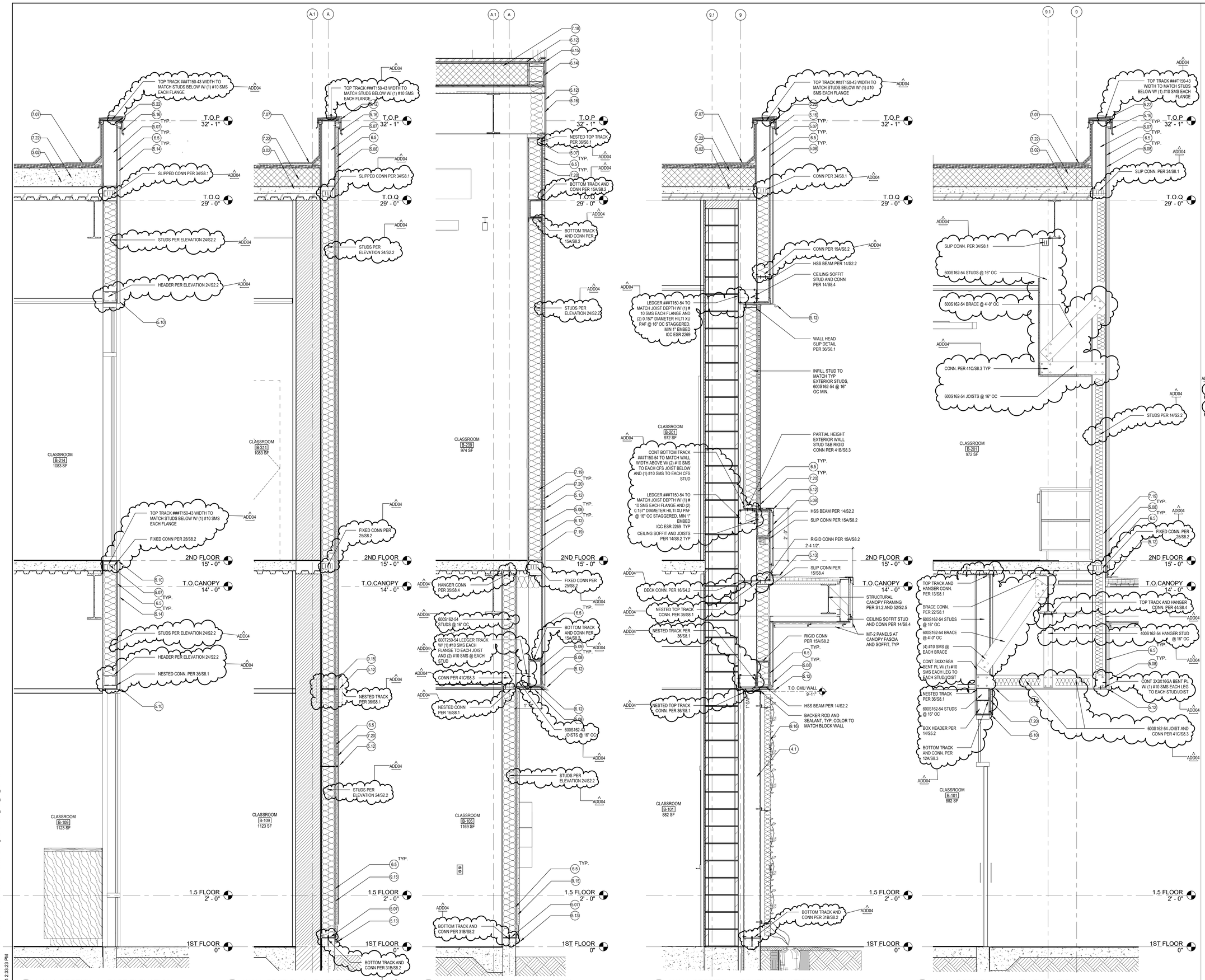
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

4	ADD04	12/2/2024

WALL SECTIONS

A6.3



1 WALL SECTION 1 - EAST ELEVATION
A6.4 SCALE: 3/4" = 1'-0"

2 WALL SECTION 2 - EAST ELEVATION
A6.4 SCALE: 3/4" = 1'-0"

3 WALL SECTION 3 - EAST ELEVATION
A6.4 SCALE: 3/4" = 1'-0"

4 WALL SECTION 1 - SOUTH ELEVATION
A6.4 SCALE: 3/4" = 1'-0"

5 WALL SECTION 2 - SOUTH ELEVATION
A6.4 SCALE: 3/4" = 1'-0"

Key Value	Keynote Text
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41/S5.2
4.1	8" CMU WALL FOR WIRE PANEL PLANT SUPPORT SYSTEM. ATTACHMENT. SEE 34/S4.1 AND 53/A9.1.
5.07	6" METAL STUD WALL. SEE 25&26/S8.2 FOR TOP & SLISE 2 FOR BOTTOM CONNECTION AT EXTERIOR WALLS, TYPICAL. SEE 16/S8.1 FOR TOP CONNECTION & 21/S8.3 FOR BOTTOM CONNECTION AT INTERIOR WALLS, TYPICAL.
5.08	MT-1 METAL PANEL. SEE 4/A9.0
5.09	STRUCTURAL HSS. SEE STRUCTURAL ELEVATIONS ON S2.2 AND 41/S4.2, 51, S4.2, OR 54/S5.3
5.10	2-PIECE SHEET METAL FLASHING WITH DRIP EDGE
5.12	FLASHING, COLOR TO MATCH WALL FINISH, MIN. SLOPE 1/4"/12"
5.13	20 GA. GALVANIZED WEEP SCREED FLASHING
5.14	MT-2 METAL PANEL. SEE 3/A9.0
5.16	CONTINUOUS MTL CLEAT-22 GA.MIN.
5.22	COPING, COLOR TO MATCH WALL FINISH, SEE 32/A10.39.
6.5	PLYWOOD SHEATHING'
6.12	PLYWOOD UNDERLAYMENT
6.14	ALCOVE SEATING, SEE 35/A14.8
6.15	CONTINUOUS WOOD BLOCKING, SEE SPEC SECTION 06 00 00
7.07	SINGLE PLY ROOFING RF-1 PER 45/A10.39
7.18	RIGID INSULATION
7.19	BATT INSULATION
7.20	FC-1 FIBER CEMENT PANEL. SEE 1/A9.0
7.22	THERMAL INSULATION
9.15	PLASTER SMOOTH FINISHES
9.16	WELDED WIRE PANEL PLANT SUPPORT SYSTEM, SEE SPEC 32 94 00

NOTES:
1. "ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W

LICENSED ARCHITECT JESSE MILLER No. C-31306 REN. 10-31-25 STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

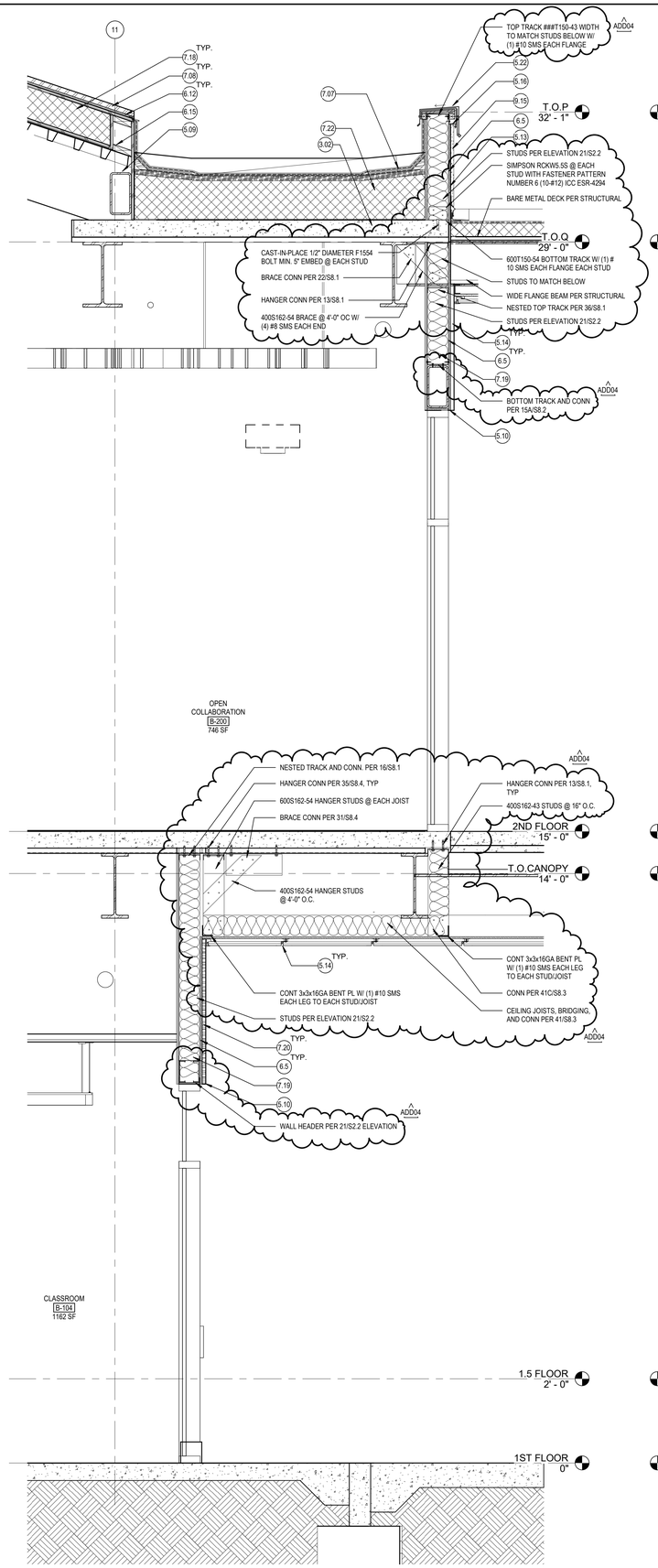
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

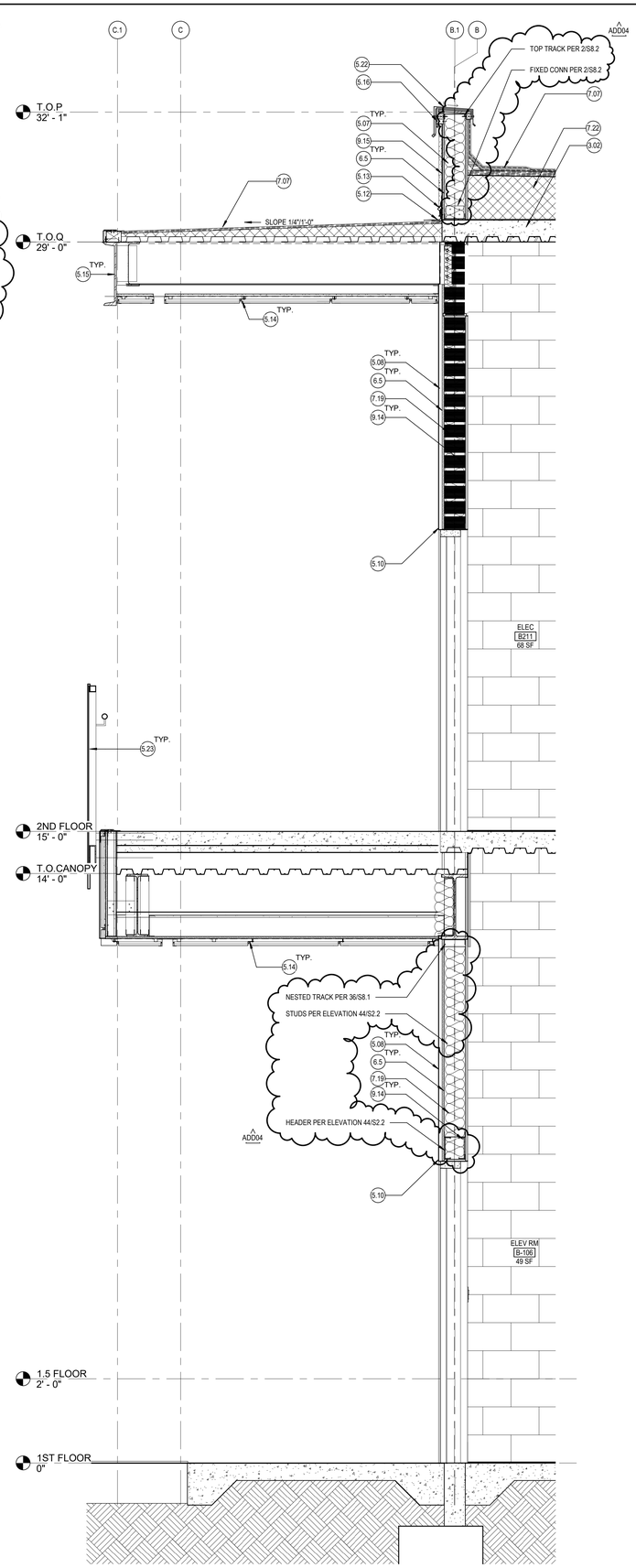
4	ADD04	12/2/2024

WALL SECTIONS

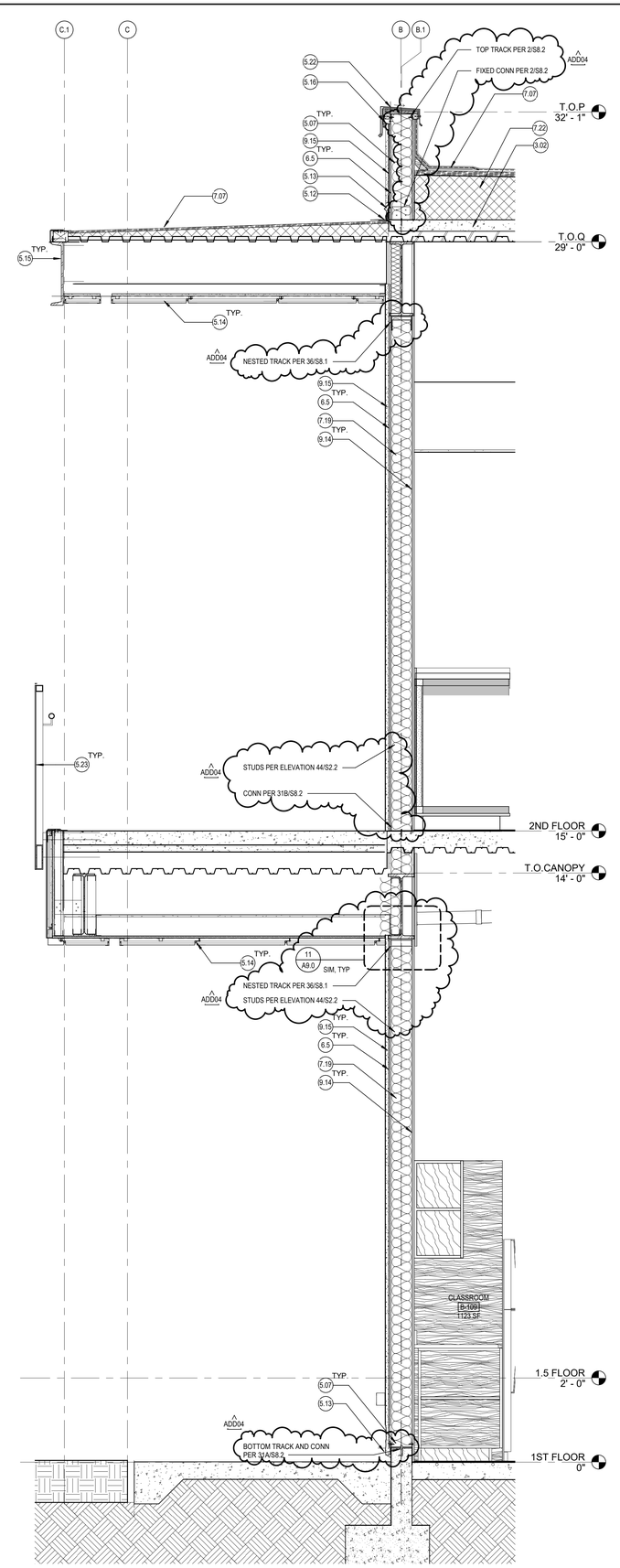
A6.4



1 A6.5 WALL SECTION 3 - SOUTH ELEVATION
SCALE: 3/4" = 1'-0"



2 A6.5 WALL SECTION 1 - COURTYARD WEST ELEVATION
SCALE: 3/4" = 1'-0"



3 A6.5 WALL SECTION 2 - COURTYARD WEST ELEVATION
SCALE: 3/4" = 1'-0"

Key Value	Keynote Text
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41/S5.2
5.07	6" METAL STUD WALL. SEE 25&26/S8.2 FOR TOP ADD04 FOR BOTTOM CONNECTION AT EXTERIOR WALLS, TYPICAL. SEE 16/S8.1 FOR TOP CONNECTION & 21/S8.3 FOR BOTTOM CONNECTION AT INTERIOR WALLS, TYPICAL.
5.08	MT-1 METAL PANEL, SEE 4/A9.0
5.09	STRUCTURAL HSS, SEE STRUCTURAL ELEVATIONS ON S2.2 AND 41/S4.2, 51, S4.2, OR 54/S5.3
5.10	2-PIECE SHEET METAL FLASHING WITH DRIP EDGE
5.12	FLASHING, COLOR TO MATCH WALL FINISH, MIN. SLOPE 1/4"-12"
5.13	20 GA. GALVANIZED WEEP SCREED FLASHING
5.14	MT-2 METAL PANEL, SEE 3/A9.0
5.15	EXPOSED C CHANNEL PERIMETER PAINTED TO MATCH MT-2
5.16	CONTINUOUS MTL CLEAT-22 GA.MIN.
5.22	COPING, COLOR TO MATCH WALL FINISH, SEE 32/A10.39.
5.23	PERFORATED METAL GUARDRAIL PER 11 & 52/A10.04
6.5	PLYWOOD SHEATHING ADD04
6.12	PLYWOOD UNDERLAYMENT
6.15	CONTINUOUS WOOD BLOCKING, SEE SPEC SECTION 06 10 00
7.07	SINGLE PLY ROOFING RF-1 PER 45/A10.39
7.08	STANDING SEAM ROOF RF-2
7.18	RIGID INSULATION
7.19	BATT INSULATION
7.20	FC-1 FIBER CEMENT PANEL, SEE 1/A9.0
7.22	THERMAL INSULATION
9.14	5/8" GYPSUM BOARD
9.15	PLASTER SMOOTH FINISHES

ADD04

NOTES:
1. *ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W

LICENSED ARCHITECT
LEE MILLER
No. C-23506
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

4	ADD04	12/2/2024

WALL SECTIONS

A6.5

Key Value	Keynote Text
3.02	CONCRETE OVER METAL DECK. REFERENCE S1.2, S1.3 & 41SS8.2.
5.07	METAL STUD WALL. SEE 75S/8S8.2 FOR TYP. ASSEMBLY. SEE 1/8S8.1 FOR TOP CONNECTION & 2/1S8.3 FOR BOTTOM CONNECTION AT INTERIOR WALLS. TYPICAL.
5.08	MT-1, METAL PANEL. SEE 4/A9.0
5.10	2-PIECE SHEET METAL FLASHING WITH DRIP EDGE
5.11	2X6" STUD HEADER. SEE STRUCTURAL ELEVATIONS ON REFERENCE DRAWINGS.
5.12	FLASHING, COLOR TO MATCH WALL FINISH. MIN. SLOPE 1/4":12"
5.16	CONTINUOUS MTL. CLEAT-22 GAUGE
5.22	PAINTED CMU. MATCH WALL FINISH. SEE 30/A10.30.
6.5	EXTERIOR SHEATHING
7.07	SINGLE PLY ROOFING RF-1 PER 4S/A10.3
7.19	BATT INSULATION
7.20	FC-1 FIBER CEMENT PANEL. SEE 1/A9.0
7.22	THERMAL INSULATION

NOTES:
1. 7/ALL PLYWOOD SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W
2. ALL GYPSUM SHEATHING TO BE ATTACHED TO CFS W/ #8 SMS @ 16" O.C. MAX E/W

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

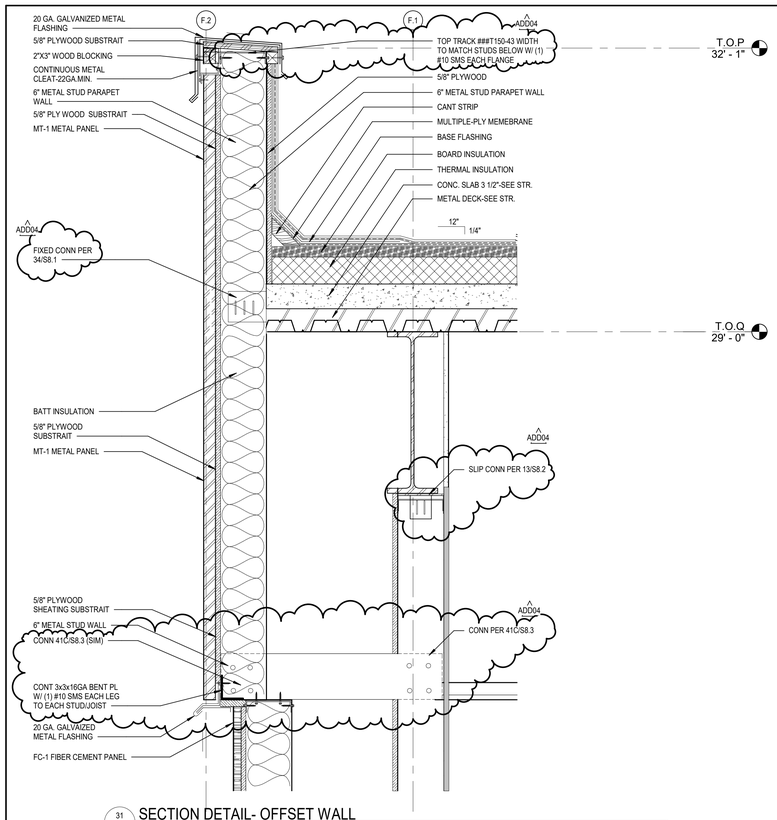
DLR Group
Architecture Engineering Planning Interiors

DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

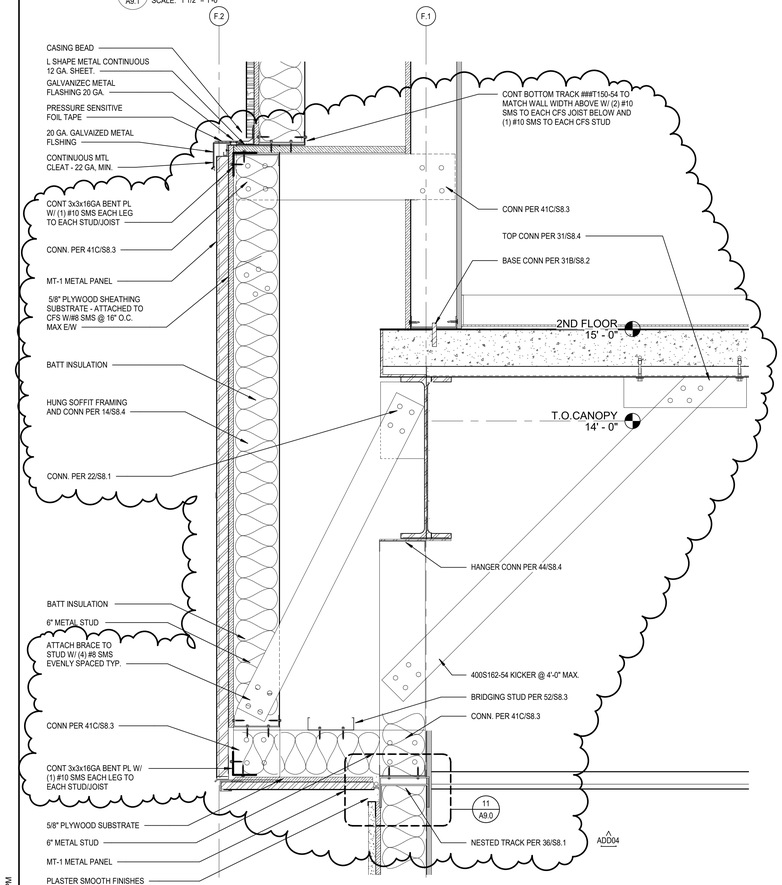
	SUBMITTAL TITLE	12/22/2024
1	ADD04	

WALL SECTIONS

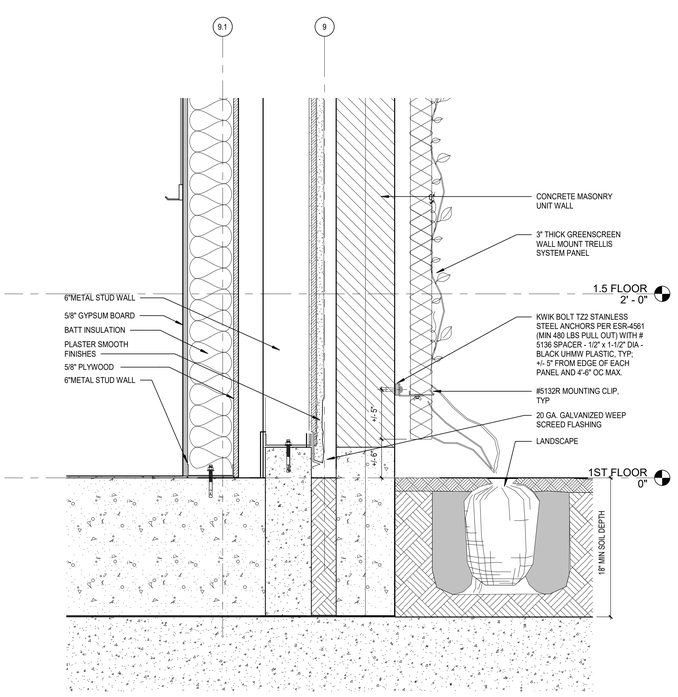
A6.6



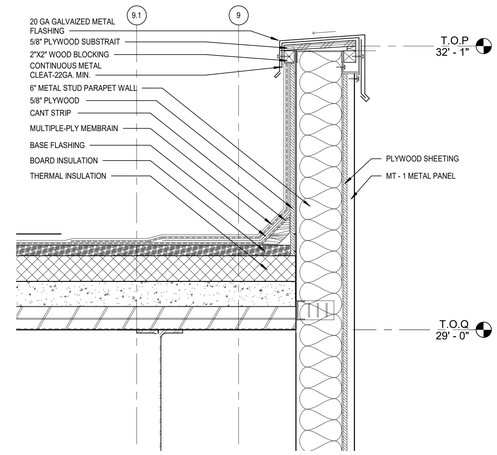
31 A9.1 SECTION DETAIL- OFFSET WALL
SCALE: 1 1/2" = 1'-0"



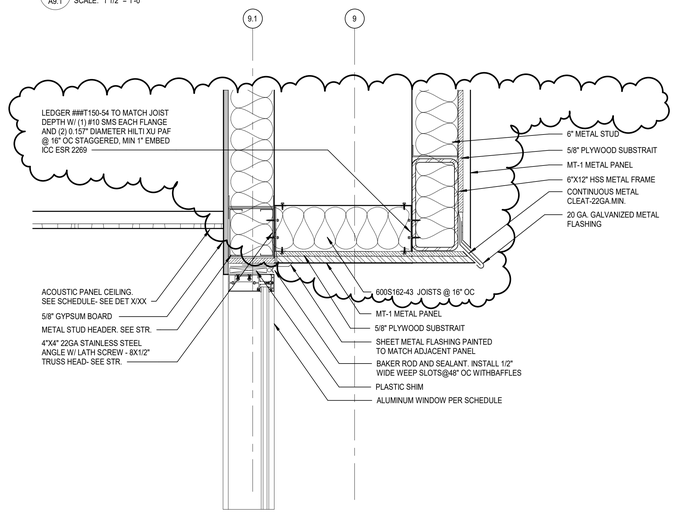
51 A9.1 SECTION DETAIL- OFFSET WALL
SCALE: 1 1/2" = 1'-0"



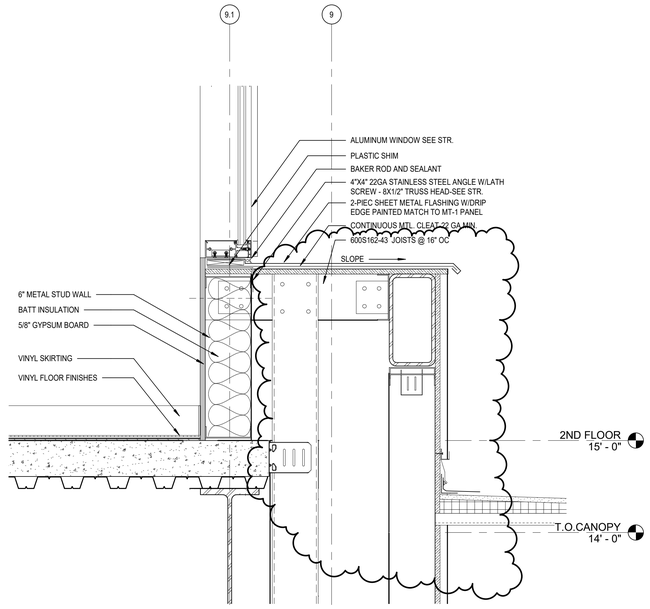
53 A9.1 SECTION DETAIL - WIRE PANEL SUPPORT SYSTEM ATTACHMENT AT CMU WALL
SCALE: 1 1/2" = 1'-0"



25 A9.1 SECTION DETAIL - ROOF PARAPET
SCALE: 1 1/2" = 1'-0"



35 A9.1 SECTION DETAIL - WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



55 A9.1 SECTION DETAIL - WINDOW SILL
SCALE: 1 1/2" = 1'-0"

LICENSED ARCHITECT
JESSE MILLER
No. C-33306
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

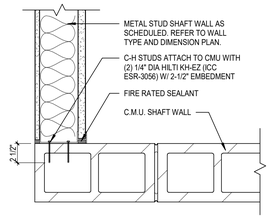
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

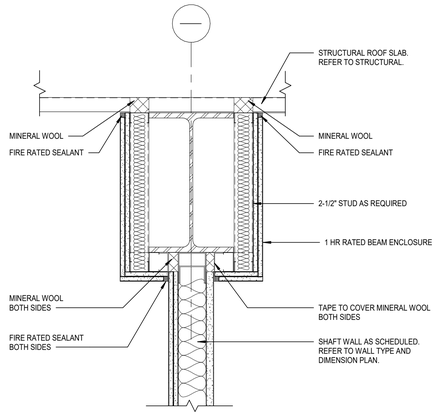
4	ADD04	12/2/2024

EXTERIOR DETAILS

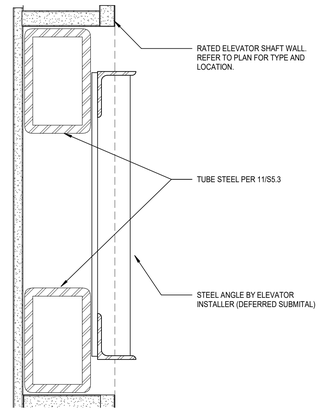
A9.1



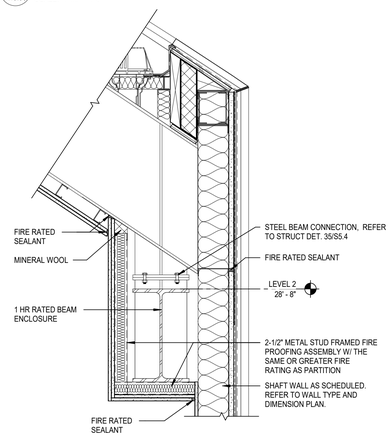
13 A10.03 SHAFT WALL AT CMU WALL
SCALE: 1 1/2" = 1'-0"



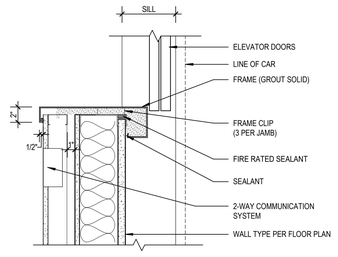
14 A10.03 SHAFT WALL AT BOTTOM OF BEAM
SCALE: 1 1/2" = 1'-0"



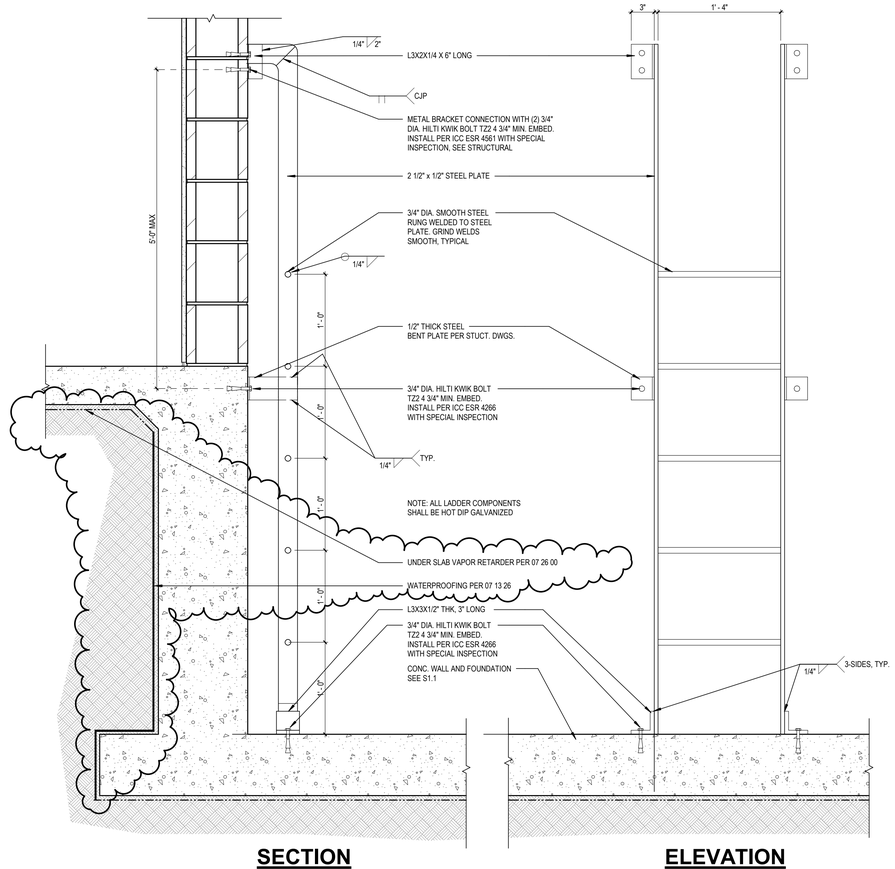
15 A10.03 ELEVATOR COLUMN ENLARGED PLAN
SCALE: 3" = 1'-0"



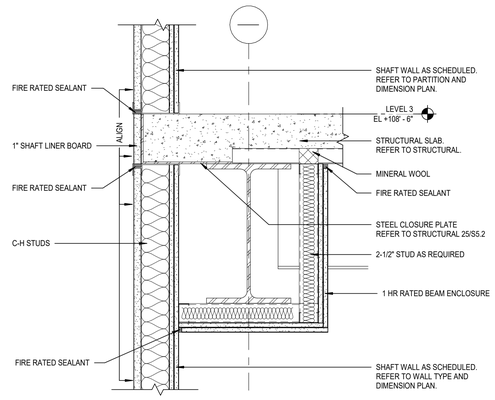
1 A10.03 ELEVATOR RATED WALL AT BEAM
SCALE: 1" = 1'-0"



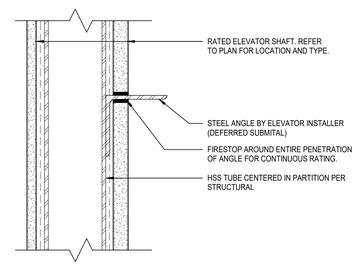
34 A10.03 ELEVATOR JAMB DETAIL - PLAN
SCALE: 1 1/2" = 1'-0"



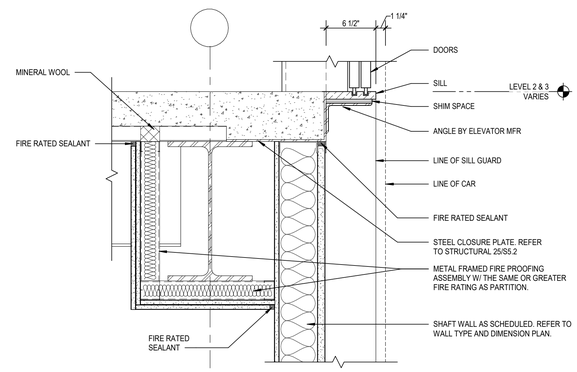
51 A10.03 ELEVATOR PIT LADDER
SCALE: 1 1/2" = 1'-0"



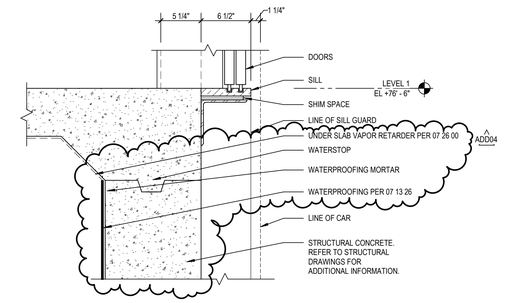
44 A10.03 TYP SLAB EDGE AT SHAFT WALL
SCALE: 1 1/2" = 1'-0"



54 A10.03 ELEVATOR COLUMN SECTION
SCALE: 3" = 1'-0"



45 A10.03 ELEVATOR SILL DETAILS
SCALE: 1 1/2" = 1'-0"



55 A10.03 ELEVATOR SHAFT WALL TRANSITION TO PIT
SCALE: 1 1/2" = 1'-0"

LICENSED ARCHITECT
LEE E. MILLER
No. C-23306
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

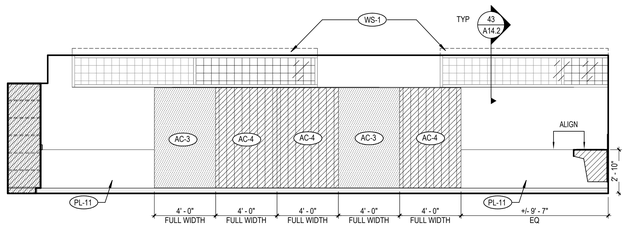
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

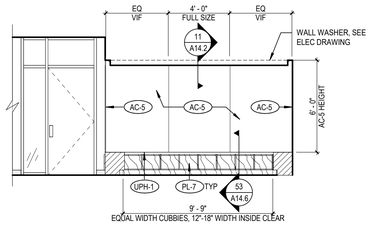
4	ADD04	12/2/2024

ELEVATOR DETAILS

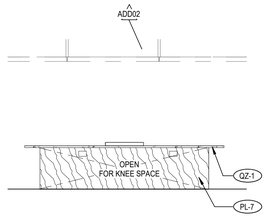
A10.03



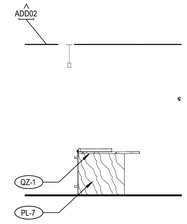
1E A11.10 ACOUSTICAL/ TACKBOARD WALL (TRANS CTR A-103) - EAST
SCALE: 1/4" = 1'-0"



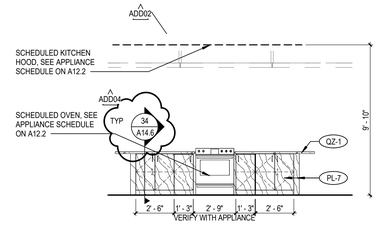
1D A11.10 TYP. U SHAPED BENCH AT SOLID WALL (TRANS CTR A-103) - WEST
SCALE: 1/4" = 1'-0"



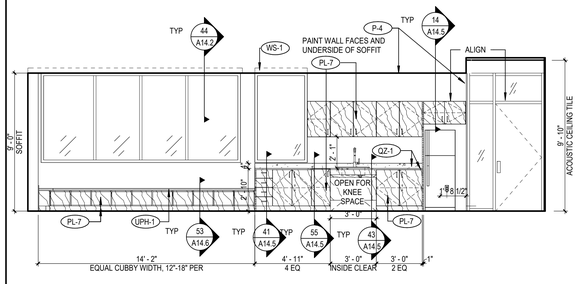
1C A11.10 TYP. KITCHEN (TRANS CTR B-109) - WEST 2
SCALE: 1/4" = 1'-0"



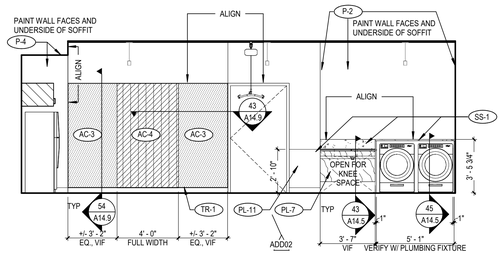
1B A11.10 TYP. KITCHEN ISLAND (TRANS CTR B-109) - NORTH
SCALE: 1/4" = 1'-0"



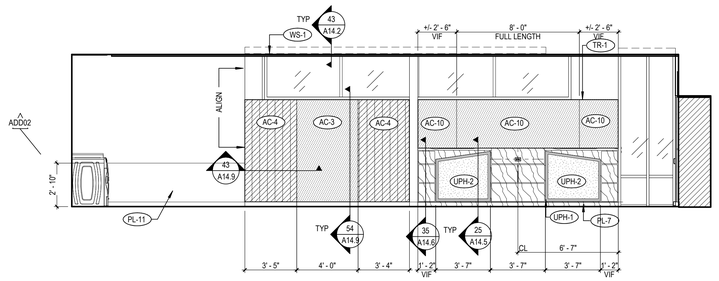
1A A11.10 TYP. KITCHEN ISLAND (TRANS CTR B-109) - EAST 1
SCALE: 1/4" = 1'-0"



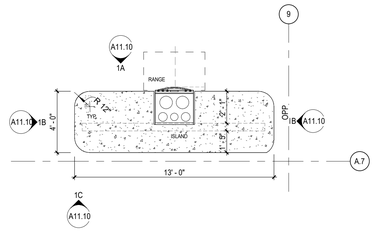
2D A11.10 TYP. KITCHEN (TRANS CTR B-109) - WEST 1
SCALE: 1/4" = 1'-0"



2C A11.10 MEDICALLY FRAGILE B-109 - NORTH
SCALE: 1/4" = 1'-0"



2B A11.10 ACOUSTICAL/ TACKBOARD (TRANS CTR B-109) - EAST 2
SCALE: 1/4" = 1'-0"



2A A11.10 TYP. KITCHEN ISLAND PLAN
SCALE: 1/4" = 1'-0"

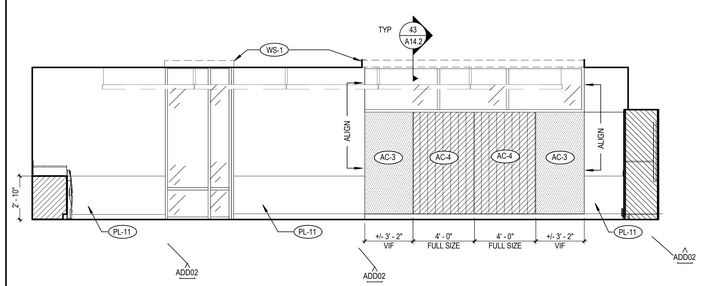
3E A11.10 TYP. L SHAPED BENCH (TRANS CTR B-105) - SOUTH
SCALE: 1/4" = 1'-0"

TYP. L SHAPED BENCH AT WINDOW WALL
3D A11.10 (TRANS CTR B-105) - WEST
SCALE: 1/4" = 1'-0"

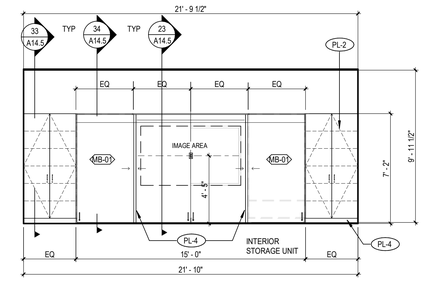
3C A11.10 TYP. SEATING CUBBY (TRANS CTR A-105) - WEST
SCALE: 1/4" = 1'-0"

3B A11.10 TYP. TACKBOARD(TRANS CTR A-105) - NORTH
SCALE: 1/4" = 1'-0"

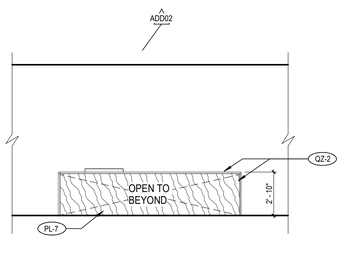
3A A11.10 TYP. W&D(TRANS CTR A-105) - NORTH
SCALE: 1/4" = 1'-0"



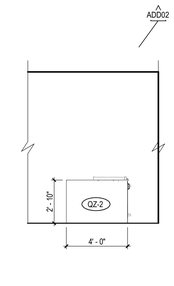
4E A11.10 ACOUSTICAL/ TACKBOARD WALL (TRANS CTR A-105) - EAST
SCALE: 1/4" = 1'-0"



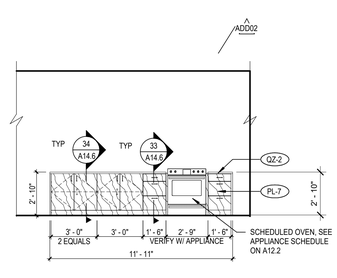
4D A11.10 TYP. TEACHING WALL (TRANS CTR B-105) - SOUTH
SCALE: 1/4" = 1'-0"



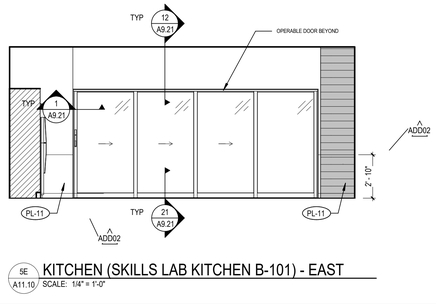
4C A11.10 TYP. ISLAND (SKILLS LAB KITCHEN B-101) - WEST
SCALE: 1/4" = 1'-0"



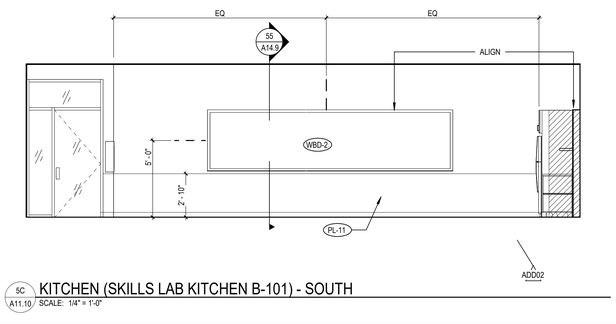
4B A11.10 TYP. ISLAND (SKILLS LAB KITCHEN B-101) - SOUTH
SCALE: 1/4" = 1'-0"



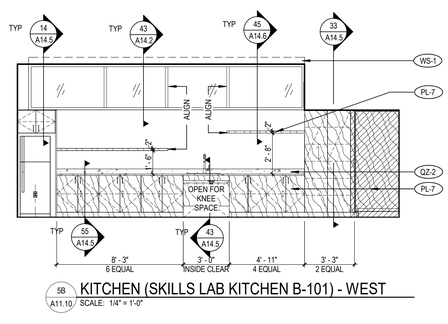
4A A11.10 TYP. ISLAND (SKILLS LAB KITCHEN B-101) - EAST
SCALE: 1/4" = 1'-0"



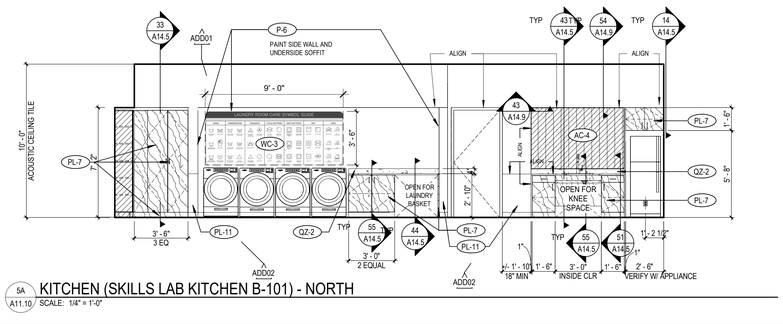
5E A11.10 KITCHEN (SKILLS LAB KITCHEN B-101) - EAST
SCALE: 1/4" = 1'-0"



5C A11.10 KITCHEN (SKILLS LAB KITCHEN B-101) - SOUTH
SCALE: 1/4" = 1'-0"



5B A11.10 KITCHEN (SKILLS LAB KITCHEN B-101) - WEST
SCALE: 1/4" = 1'-0"



5A A11.10 KITCHEN (SKILLS LAB KITCHEN B-101) - NORTH
SCALE: 1/4" = 1'-0"

LICENSED ARCHITECT
LEE E. MILLER
No. C-23506
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

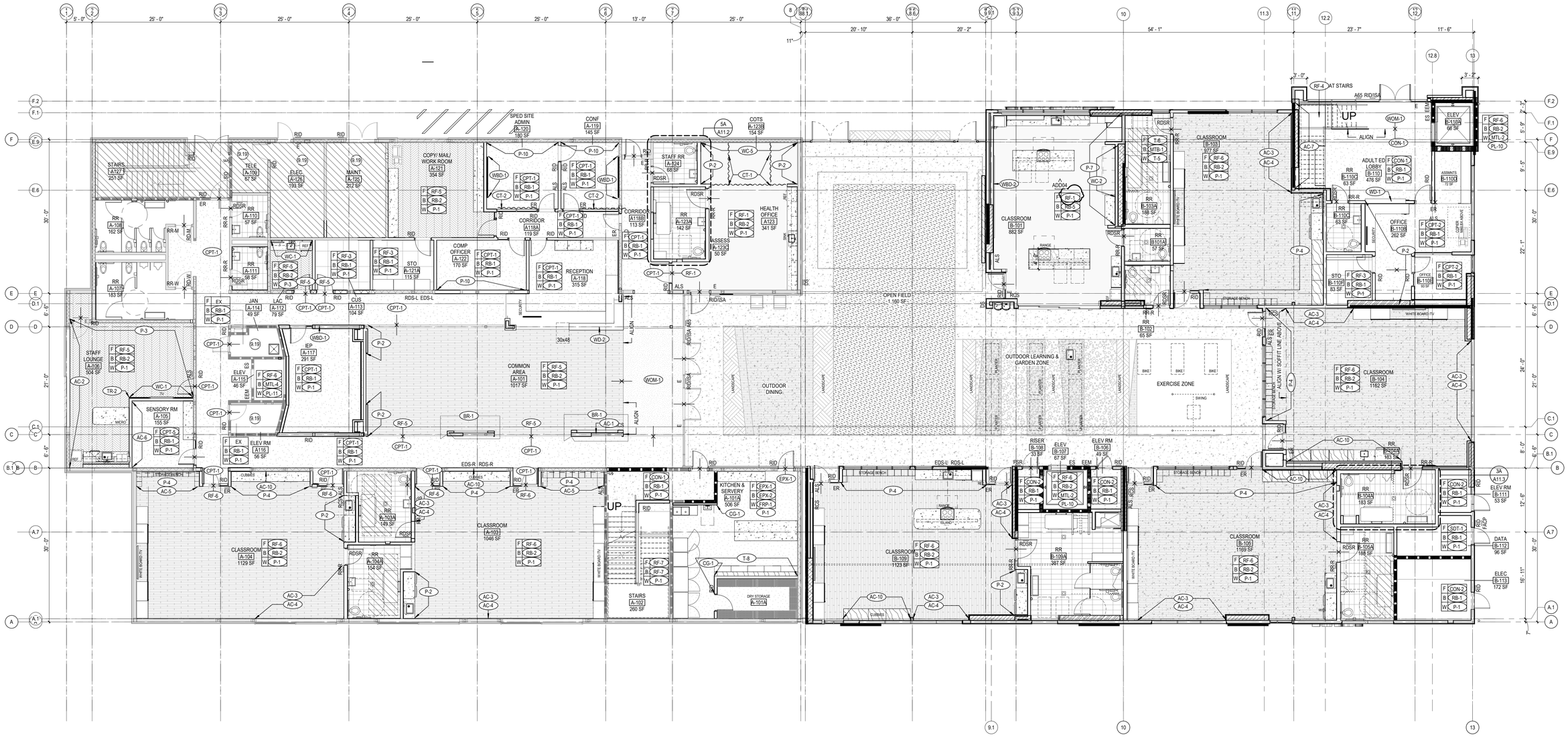
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

1	ADD01	09/26/2024
2	ADD02	10/07/2024
4	ADD04	12/2/2024

INTERIOR ELEVATIONS - TRANS. CTR. TYP. CLASSROOMS, SKILL LAB

A11.10



OVERALL FLOOR PLAN, LEVEL 1

SCALE: 1/8" = 1'-0"

FINISH GENERAL NOTES

A. ROOM FINISH SCHEDULE GENERAL NOTES APPLY TO ALL ROOM FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ELEVATIONS FOR WALL AND MILLWORK FINISHES NOT NOTED.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED. ALL FLOOR FINISHES SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. EXTEND FLOOR FINISHES BENEATH CASEWORK, U.N.O.
G. **P-1** FEILD PAINT THROUGHOUT, U.N.O.
H. **RB-1** RUBBER BASE THROUGHOUT, U.N.O.
I. CONTRACTOR TO SUBMIT THREE (3) 12"X12" PAINT CARD AND THREE (3) SAMPLES OF ALL FINISH MATERIALS AS SPECIFIED TO OWNER AND ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
J. ALL CARPET SHALL COMPLY WITH ASTM STANDARD E648 AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM662. CBC 804.4.2
K. REFER TO FINISH SCHEDULE AND DETAIL FOR ALL FLOOR TRANSITION SPECIFICATION.
L. PROVIDE EDGE TRIM TR-X AT ALL PANEL EDGES THAT MEET WITH WC-X, MB-X, AC, FWP-X, AND AWP-X.
M. REFER TO FINISH DETAIL SHEET XX FOR FLOOR TRANSITION DETAILS
N. REFER TO ELEVATIONS FOR CASEWORK FINISHES
O. ELECTRICAL COVER FINISH COLOR TO MATCH CLOSELY WITH THE WALL PAINT, U.O.N.

FINISH FINISH LEGENDS

ROOM FINISH TAG
F — FLOOR FINISH
B — BASE FINISH
W — WALL FINISH
XX-XX — FINISH TAG SEE A5.10 FINISH SCHEDULE
FINISH DIRECTION
FINISH EXTENT FOR LOCATION WHERE FINISHES APPLY
FINISH TRANSITION

Key Value	Keynote Text
9.19	EXISTING FLOOR FINISH TO REMAIN, PATCH AND REPAIR EXISTING WALL SURFACES TO REMAIN PRIOR TO PAINTING ALL WALLS P-1, U.O.N.

LICENSED ARCHITECT LESLIE MILLER No. C-23306 REN. 10-31-25 STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

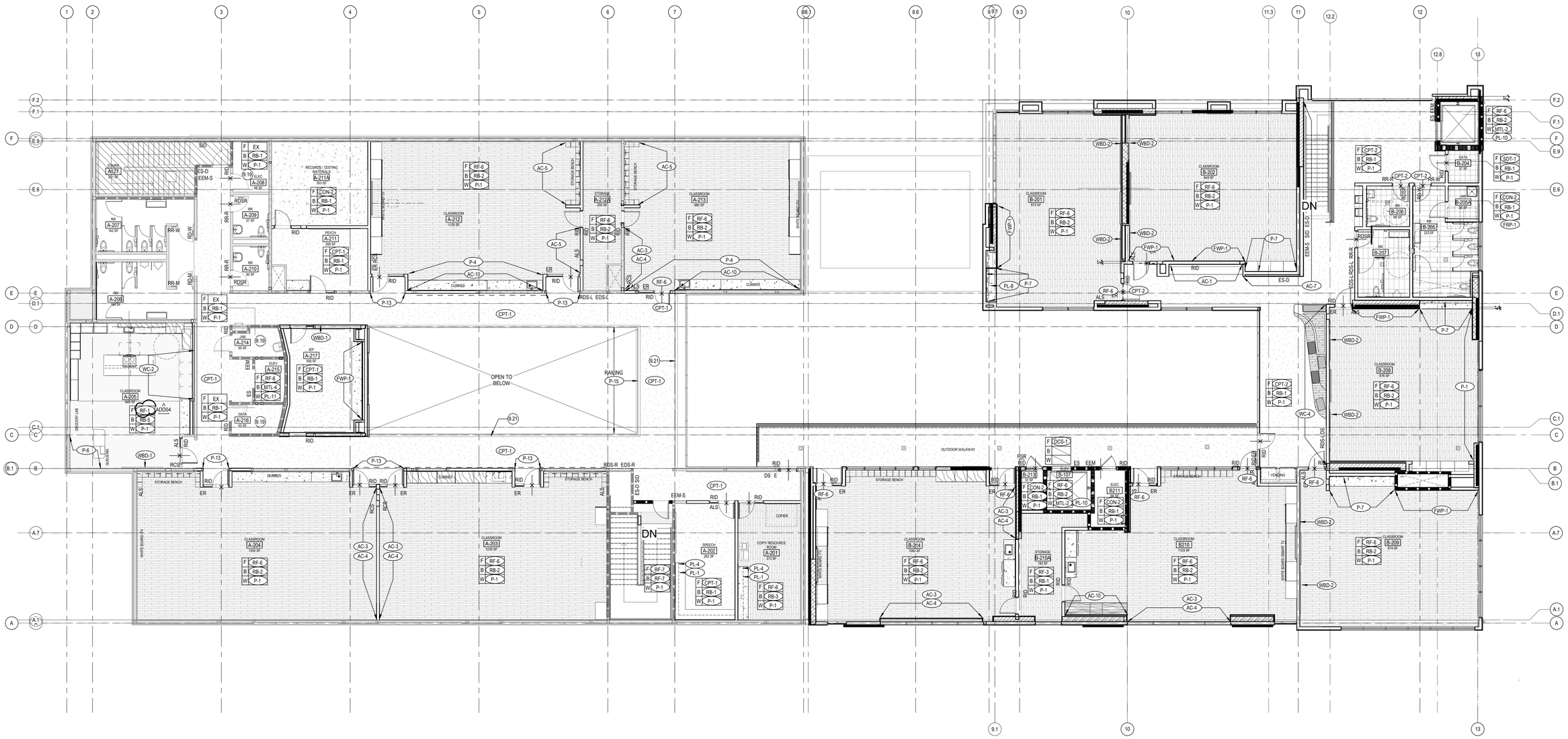
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

4	ADD04	12/2/2024

FINISH PLAN - LEVEL 1

A13.A



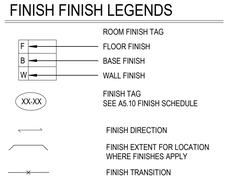
OVERALL FLOOR PLAN, LEVEL 2

SCALE: 1/8" = 1'-0"

FINISH GENERAL NOTES

A. ROOM FINISH SCHEDULE GENERAL NOTES APPLY TO ALL ROOM FINISH SCHEDULE SHEETS.
B. INTERIOR FINISH PLAN GENERAL NOTES APPLY TO ALL INTERIOR FINISH PLAN SHEETS.
C. NOT ALL FLOOR AND WALL FINISHES ARE NOTED ON THE INTERIOR FINISH PLANS. SEE ELEVATIONS FOR WALL AND MILLWORK FINISHES NOT NOTED.
D. FLOOR PATTERN DIMENSIONS AND LOCATIONS ARE APPROXIMATE. MINOR ADJUSTMENTS MAY BE MADE FOR LAYOUT AND TO MINIMIZE WASTE AS LONG AS THE DESIGN INTENT IS MAINTAINED. ALL FLOOR FINISHES SHALL BE CENTERED IN EACH ROOM UNLESS NOTED OTHERWISE.
E. FOR FLOOR TILE PRODUCTS, ADJUST LAYOUT AS NECESSARY TO AVOID USING CUT WIDTHS THAT EQUAL LESS THEN ONE-HALF OF A TILE AT ROOM PERIMETER.
F. EXTEND FLOOR FINISHES BENEATH CASEWORK, U.N.O.
G. **P-1** FEILD PAINT THROUGHOUT, U.N.O.
H. **RB-1** RUBBER BASE THROUGHOUT, U.N.O.
I. CONTRACTOR TO SUBMIT THREE (3) 12"X12" PAINT CARD AND THREE (3) SAMPLES OF ALL FINISH MATERIALS AS SPECIFIED TO OWNER AND ARCHITECT FOR APPROVAL PRIOR TO PLACEMENT OF ORDER.
J. ALL CARPET SHALL COMPLY WITH ASTM STANDARD E648 AND HAVING A SPECIFIC OPTICAL DENSITY SMOKE RATING NOT TO EXCEED 450 PER ASTM662. CBC 804.4.2
K. REFER TO FINISH SCHEDULE AND DETAIL FOR ALL FLOOR TRANSITION SPECIFICATION.
L. PROVIDE EDGE TRIM TR-X AT ALL PANEL EDGES THAT MEET WITH WC-X, MB-X, AC, FWP-X, AND AWP-X.
M. REFER TO FINISH DETAIL SHEET XX FOR FLOOR TRANSITION DETAILS
N. REFER TO ELEVATIONS FOR CASEWORK FINISHES
O. ELECTRICAL COVER FINISH COLOR TO MATCH CLOSELY WITH THE WALL PAINT, U.O.N.

FINISH FINISH LEGENDS



Key Value	Keynote Text
9.19	EXISTING FLOOR FINISH TO REMAIN, PATCH AND REPAIR EXISTING WALL SURFACES TO REMAIN PRIOR TO PAINTING ALL WALLS P-1, U.O.N.
9.21	CLEAN EXISTING GUARDRAIL, SAND SMOOTH AND PREP FOR PAINT, ADD PRIMER AND FINISH COATS, PAINT P-15, SEMI-GLOSS FINISH

LICENSED ARCHITECT LESLIE MILLER No. C-23305 REN. 10-31-25 STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

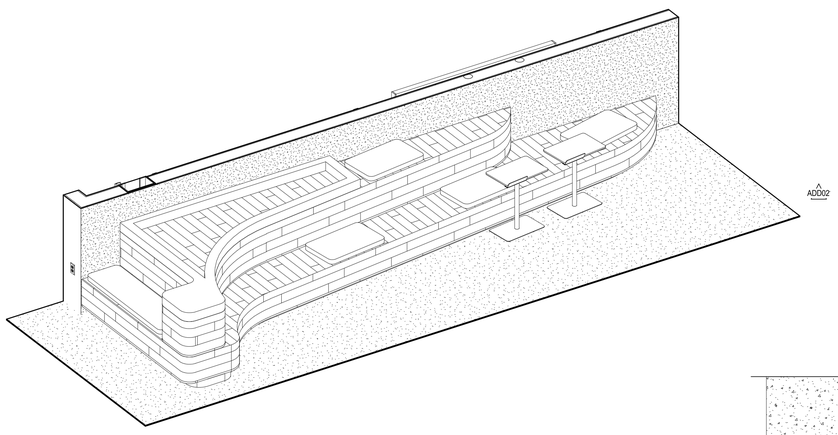
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

4	ADD04	12/2/2024

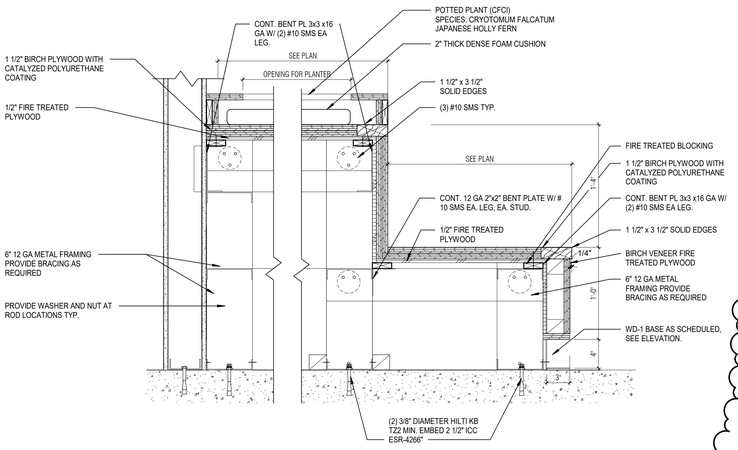
FINISH PLAN - LEVEL 2

A13.B

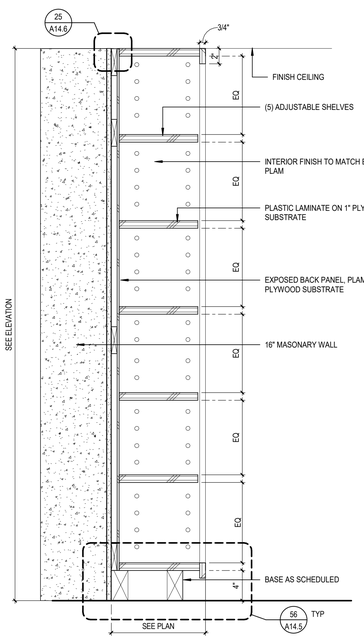


ADD02

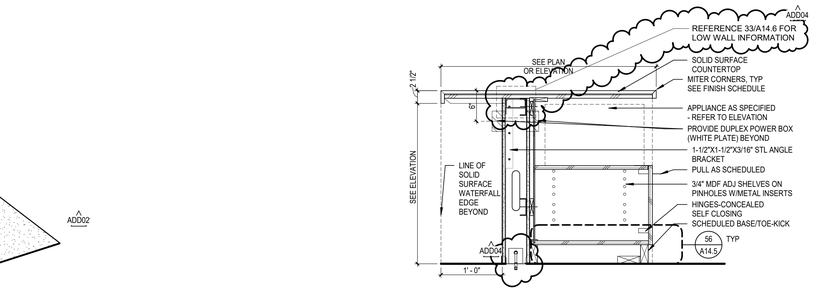
52 / A14.6 PLINTH-SEATING AT OPEN COLLABORATION (FOR REFERENCE ONLY)
SCALE:



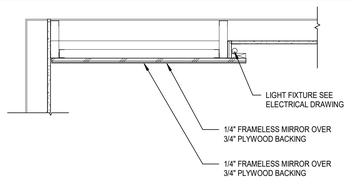
51 / A14.6 PLINTH-SEATING AT OPEN COLLABORATION
SCALE: 1 1/2" = 1'-0"



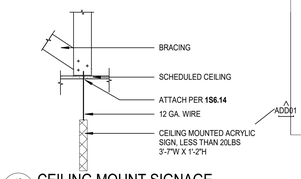
31 / A14.6 BOOKCASE DETAIL
SCALE: 1 1/2" = 1'-0"



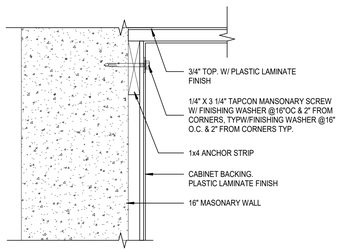
14 / A14.6 ISLAND COUNTER WITH OPEN CUBBY
SCALE: 1" = 1'-0"



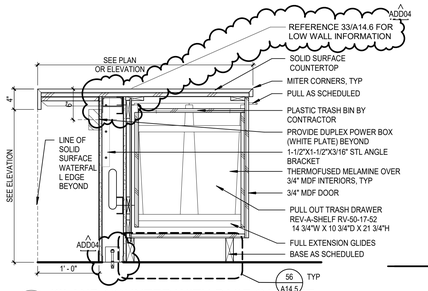
15 / A14.6 SINK WITH WALL MOUNT MIRROR
SCALE: 1" = 1'-0"



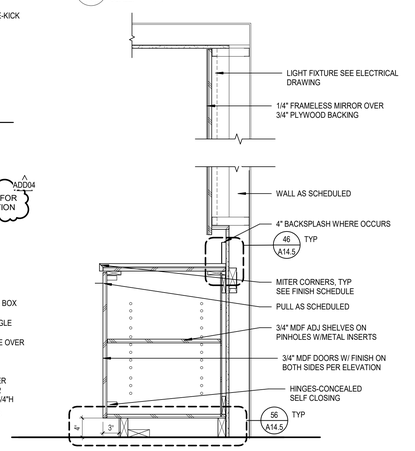
16 / A14.6 CEILING MOUNT SIGNAGE
SCALE: 1" = 1'-0"



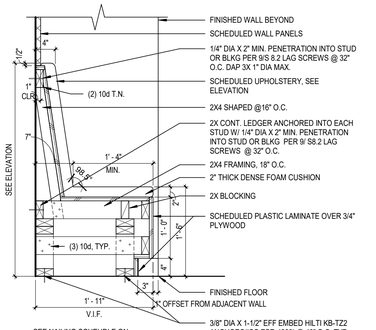
25 / A14.6 UPPER CABINET ANCHORAGE AT TOP, TYP.
SCALE: 3" = 1'-0"



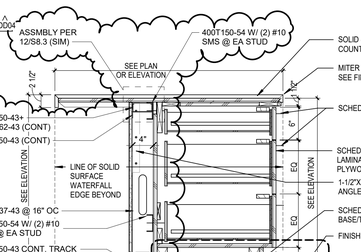
24 / A14.6 ISLAND COUNTER WITH BASE CABINET
SCALE: 1" = 1'-0"



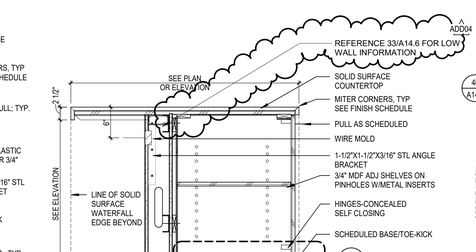
23 / A14.6 SINK WITH WALL MOUNT MIRROR
SCALE: 1" = 1'-0"



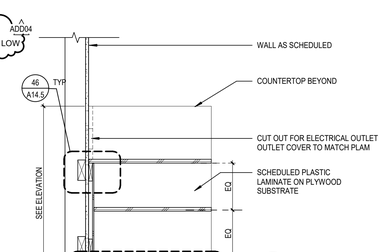
26 / A14.6 BUILT-IN BANQUETTE
SCALE: 1" = 1'-0"



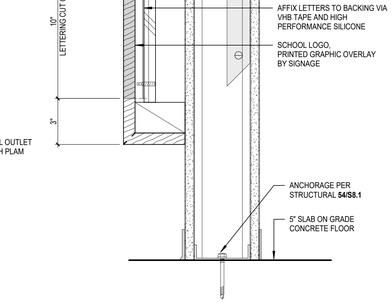
33 / A14.6 ISLAND COUNTER WITH DRAWER
SCALE: 1" = 1'-0"



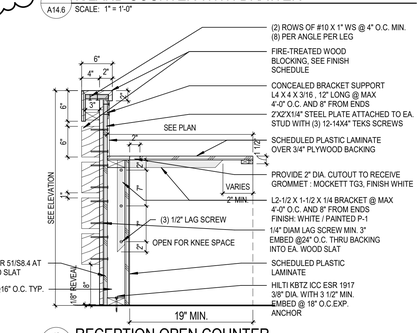
34 / A14.6 ISLAND COUNTER WITH BASE CABINET
SCALE: 1" = 1'-0"



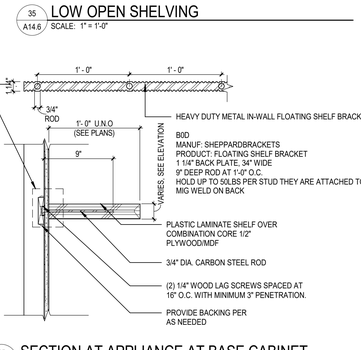
35 / A14.6 LOW OPEN SHELVING
SCALE: 1" = 1'-0"



36 / A14.6 SIGNAGE AT RECEPTION DESK
SCALE: 3" = 1'-0"

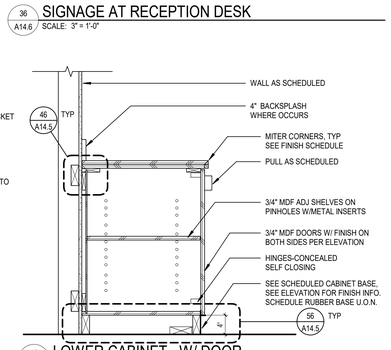


43 / A14.6 RECEPTION OPEN COUNTER
SCALE: 1" = 1'-0"



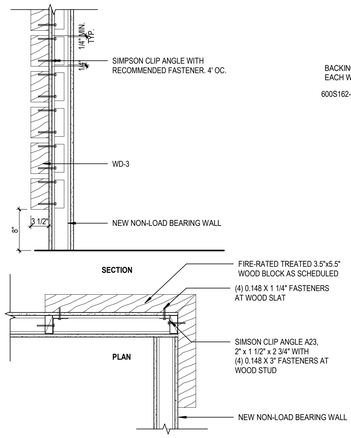
44 / A14.6 SKILL LAB PRODUCE SHELF
SCALE: 1" = 1'-0"

45 / A14.6 SECTION AT APPLIANCE AT BASE CABINET
SCALE: 1 1/2" = 1'-0"

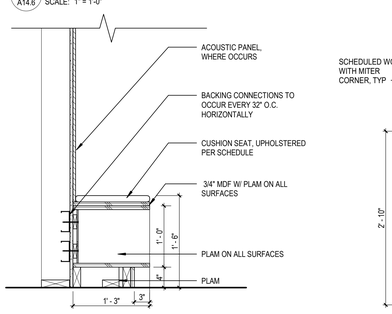


46 / A14.6 LOWER CABINET - W/ DOOR
SCALE: 1" = 1'-0"

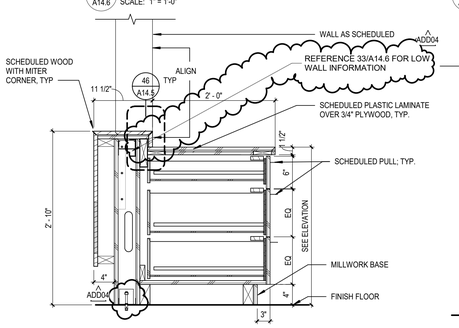
31 / A14.6 BOOKCASE DETAIL
SCALE: 1 1/2" = 1'-0"



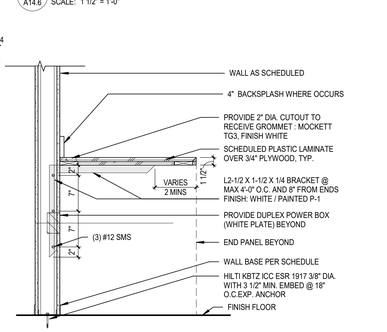
11 / A14.6 WOOD SLAT AT WALL
SCALE: 1" = 1'-0"



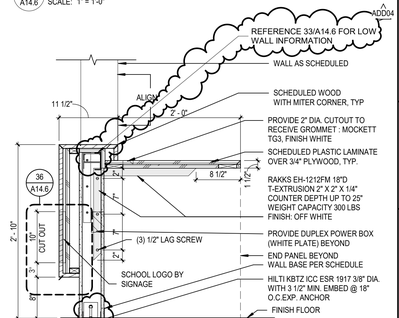
53 / A14.6 CLASSROOM CUBBIE STORAGE
SCALE: 1" = 1'-0"



54 / A14.6 RECEPTION DESK - SECTION
SCALE: 1" = 1'-0"



55 / A14.6 SECURITY DESK - ADULT ED
SCALE: 1" = 1'-0"



56 / A14.6 RECEPTION DESK - ADULT ED
SCALE: 1" = 1'-0"

Autodesk Docs://75-20223-02 El Monte UHSD Rosemead Adult School Building/75-20223-02_PCC_AR_2022.rvt
11/26/2024 4:38:14 PM

LICENSED ARCHITECT
LEE MILLER
No. C-23306
REN. 10-31-25
STATE OF CALIFORNIA

Rosemead Adult Education and Transition Center Addition/Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

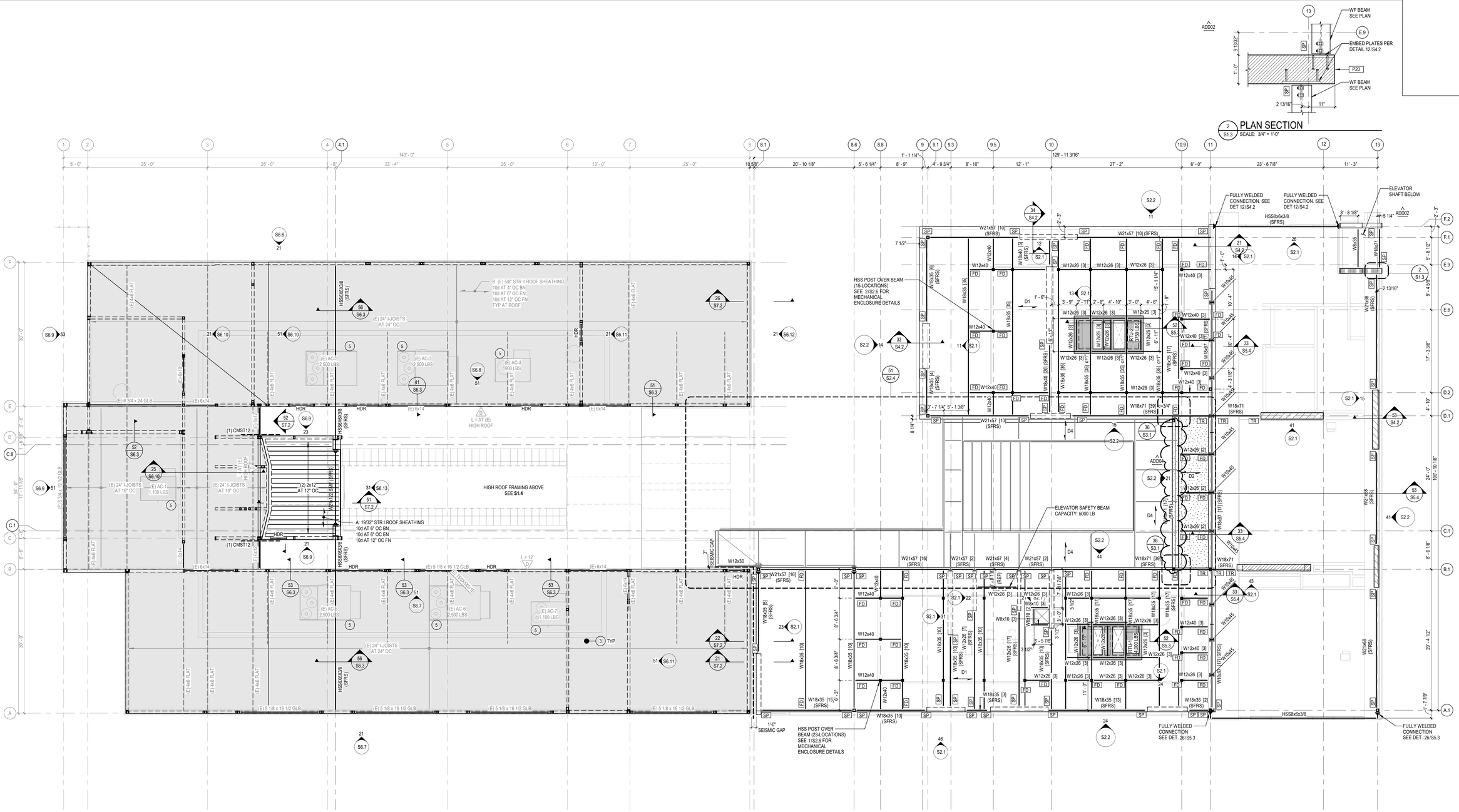
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 02/15/2024

SUBMITTAL TITLE

1	ADD01	09/26/2024
2	ADD02	10/07/2024
4	ADD04	12/2/2024

CASEWORK DETAILS

A14.6



ROOF FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. NEW BUILD FLOOR TOP OF SLAB ELEVATIONS ARE BASED ON A FLOOR DATUM OF 0'-0", TYPICAL UNO ON PLAN AS INDICATED BY ELEVATION SYMBOL (± X'-XX")
2. T/SLAB ELEVATION AT LEVEL 2 = 29'-6 1/4", TYP UNO.
3. T/STL ELEVATION AT LEVEL 2 = 29'-0", TYP UNO.
4. SEE DETAIL 24/S5.2 FOR ALL SLAB EDGE CONDITIONS, INTERIOR AND EXTERIOR.
5. CONTRACTOR TO FIELD VERIFY EXISTING ELEVATIONS AND NOTIFY SEOR IN WRITING OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK.
6. SEE ARCHITECTURAL DRAWINGS FOR ROOF ELEVATIONS, PARAPET ELEVATIONS AND ALL OTHER DIMENSIONAL INFORMATION NOT SHOWN.
7. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF EQUIPMENT.
8. ALL EXISTING OPENINGS IN WALL FRAMING WITH HEADERS SHALL REMAIN. ALL NEW OPENINGS IN WALL FRAMING SHALL HAVE HEADERS. SEE **23/S6.1** FOR ADDITIONAL INFORMATION.
9. ALL PARTITION WALL FRAMING SHALL BE PER ARCHITECTURAL WALL TYPES. SEE ARCHITECTURAL DRAWINGS AND **13/S6.2** FOR ADDITIONAL INFORMATION.

EXISTING FRAMING KEYNOTES

1. NOT USED.
2. NOT USED.
3. MAX NON-STRUCTURAL COMPONENT HANGER LOAD ON EXISTING I-JOISTS AS SCHEDEULED BELOW. SEE 51/S6.2, 53/S6.2 AND S6.14. CONTRACTOR TO SUBMIT COORDINATED DRAWINGS OF ALL NEW HANGER LOADS TO EXISTING FRAMING FOR SEOR REVIEW.
   A. FLOOR JOIST AT 16" OC: 90 LBS FOR 0'-10' SPAN, 90 LBS FOR 10'-15' SPAN, 120 LBS FOR 15'-20' SPAN AND 150 LBS FOR 20'-25' SPAN.
   B. ROOF JOIST AT 16" OC: 30 LBS FOR 0'-10' SPAN, 45 LBS FOR 10'-15' SPAN, 60 LBS FOR 15'-20' SPAN AND 75 LBS FOR 20'-25' SPAN.
   C. ROOF JOIST AT 24" OC: 50 LBS FOR 0'-10' SPAN, 75 LBS FOR 10'-15' SPAN, 100 LBS FOR 15'-20' SPAN AND 125 LBS FOR 20'-25' SPAN.
4. NOT USED.
5. EXISTING MECHANICAL UNIT WITH EXISTING ANCHORAGE AND ROOF PENETRATIONS TO REMAIN UNALTERED.

FRAMING SYMBOLS

- D# — INDICATES DECK TYPE "D#" AND SPAN DIRECTION. SEE SCHEDULE PER 41/S5.2
- W21X44 [8,8,10] c = 0.75" — BEAM SIZE; NUMBER OF WELDED HEADED SHEAR STUDS (STUD COUNT BTWN EACH INFILL BEAM SHOWN). SEE COMPOSITE STUD SPCG DETAIL 55/S5.2 & 13/S5.2
- [AESS-X] WTX — BEAM UPWARD CAMBER VALUE WHERE OCCURS; BUILT UP BEAM SECTION & EXTENTS, WHERE OCCURS. SEE SCHEDULE & DETAILS PER 23/S5.3 , 42/S5.3 & 32/S5.3
- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL WHERE OCCURS, REFER TO AISC 303-16 - SECTION 10 AND SPECIFICATION SECTION 05 12 13
- NUMBER OF WELDED HEADED SHEAR STUDS (UNIFORMLY SPACED). SEE COMPOSITE STUD SPCG DETAILS 55/S5.2 & 13/S5.2
- W21X44 [30] SFRS — FRAME MEMBER DESIGNATED AS PART OF BLDG SEISMIC FORCE RESISTING SYSTEM (SFRS)

- SC — INDICATES SINGLE ROW DRAG BEAM-TO-COLUMN OR BEAM-TO-BEAM CONN PER DETAIL 21A /SS.1 AND 51A/SS.1
- DR — INDICATES DOUBLE ROW DRAG BEAM-TO-COLUMN OR BEAM-TO-BEAM CONN PER DETAIL 21C /SS.1 AND 51B/SS.1
- FD — INDICATES DOUBLE ROW FULL DEPTH DRAG/STRUT BEAM-TO-BEAM CONN PER DETAIL 12/SS.1
- SP — INDICATES DOUBLE ROW DRAG BEAM-TO-COLUMN OR BEAM-TO-BEAM CONN PER DETAIL 21D /SS.1, 51C /SS.1 AND 12/S4.2
- TR — INDICATES TRIPLE ROW DRAG BEAM-TO-COLUMN OR BEAM-TO-BEAM CONN PER DETAIL 21E /SS.1, 51D /SS.1 AND 12/S4.2
- EP-1 — INDICATES BEAM-TO-CONC MASONRY WALL EMBED PLATE CONN PER DETAIL 12/S4.2
- INDICATES NON-SFRS BEAM-TO-COLUMN MOMENT CONN PER DETAIL 31/SS.1

- INDICATES BEAM-TO-BEAM MOMENT CONN. PER DETAIL 13/SS.1
- 4"ø X 0.226" / 4"ø X 0.337" — WF POST ABV BEAM SEE 35/SS.1
- HSS POST ABV BEAM SEE 35/SS.1
- INDICATES WALL BELOW
- AREA HATCH INDICATES DEPRESSED SLAB PER 32/SS.3 & 42/SS.3 UNO. SEE ARCH FOR EXACT DEPTH AND EXTENT.

- THK PER PLN — FULLY GROUTED CMU (CONCRETE MASONRY UNIT) WALL. THICKNESS SHALL BE 12" UNO ON PLAN
- INDICATES WALL BELOW
- BEARING WALL/BEARING WALL INFILL/EXTERIOR WALL INFILL
- NEW (N) BEARING SHEAR WALL OR BEARING SHEAR WALL INFILL. SEE
- EXISTING (E) BEARING SHEAR WALL OR EXTERIOR SHEAR WALL, FV. SEE
- EXISTING (E) BEARING WALL/EXTERIOR WALL
- X — L=X'-X" — NEW SHEAR WALL; MINIMUM LENGTH OF WALL. SEE
- X — L=X'-X" — EXISTING SHEAR WALL; MINIMUM LENGTH OF WALL. SEE

- (E) 4X6 FLAT — EXISTING FLOOR OR ROOF 4X COLLECTOR, FV.
- (X) CMST12 — NEW FLOOR OR ROOF CMST12 COLLECTOR STRAP(S). PROVIDE STRAP END LENGTHS AS SHOWN ON PLAN. SEE S6.3 FOR ADDITIONAL INFORMATION.
- ES 4-5-2 — EDGE STIFFENER, INDICATES # OF BARS, BAR SIZE AND # OF CORES. *THIS EXAMPLE INDICATES (4) #5 BARS IN 2 CORES, 1 EACH FACE.*
- (#) — KEYNOTE, SEE EXISTING FRAMING KEY NOTES ON THIS SHEET
- ROOF OR FLOOR PENETRATION, SEE

REGISTERED PROFESSIONAL ENGINEER DANIEL LEE ARNUM 6351 STRUCTURAL STATE OF CALIFORNIA
EXP: 03/31/2025
STAMP DATE: 12/02/2024

Rosemead Adult Education and Transition Center / Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

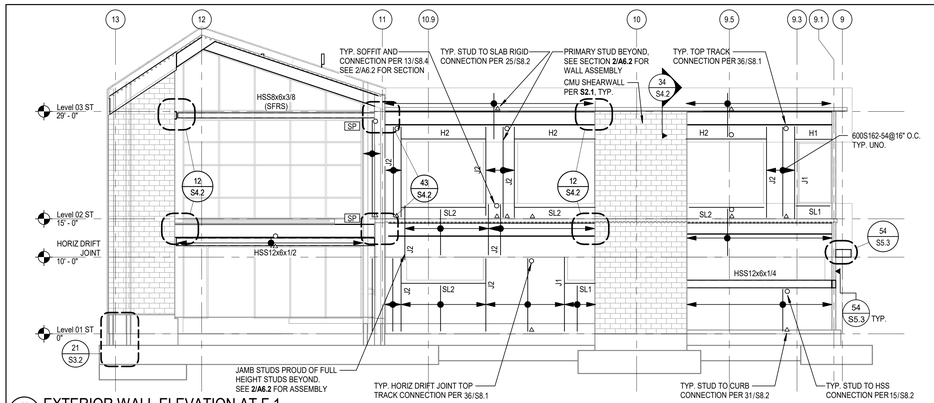
DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 11/20/2023

SUBMITTAL TITLE

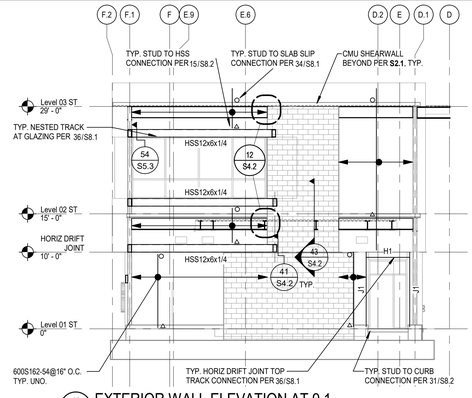
2	ADD02	10/07/2024
4	ADD04	12/02/2024

ROOF STRUCTURAL PLAN

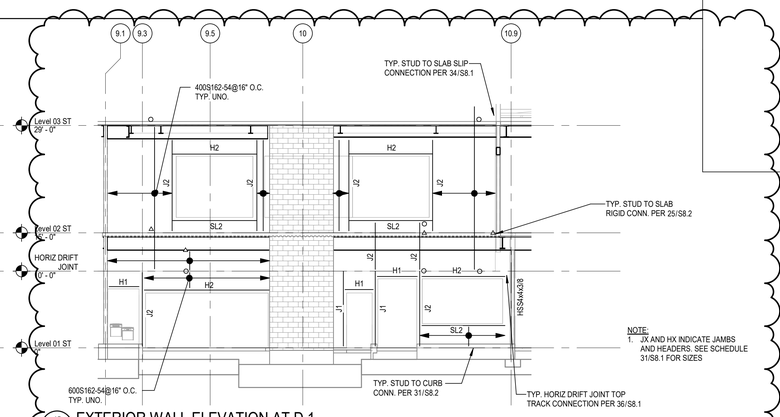
S1.3



11 S2.2 EXTERIOR WALL ELEVATION AT F.1
SCALE: 1/8" = 1'-0"



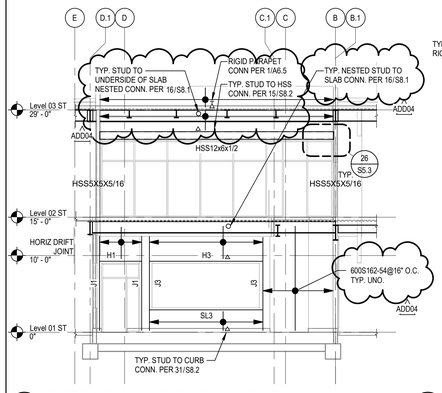
14 S2.2 EXTERIOR WALL ELEVATION AT 9.1
SCALE: 1/8" = 1'-0"



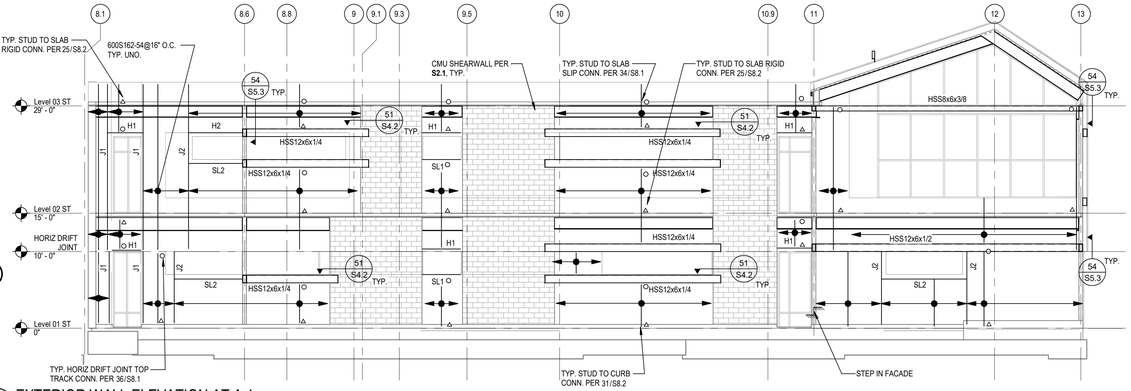
NOTE:
1. JX AND HX INDICATE JAMBS AND HEADERS. SEE SCHEDULE 31/S8.1 FOR SIZES

15 S2.2 EXTERIOR WALL ELEVATION AT D.1
SCALE: 1/8" = 1'-0"

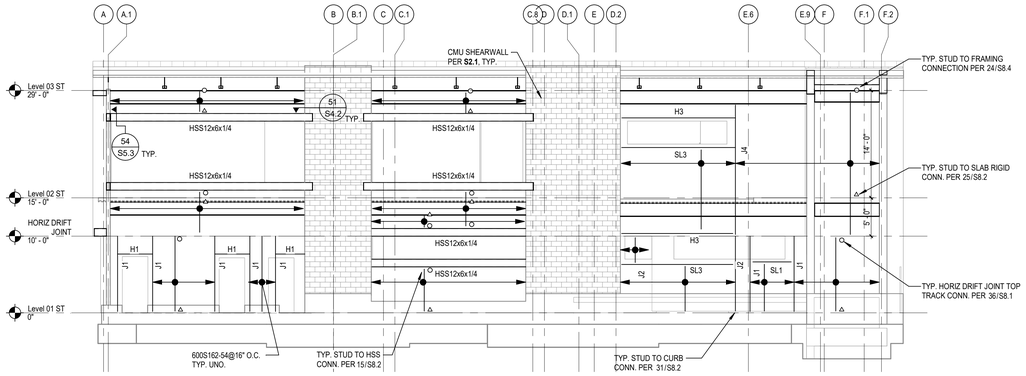
AD004



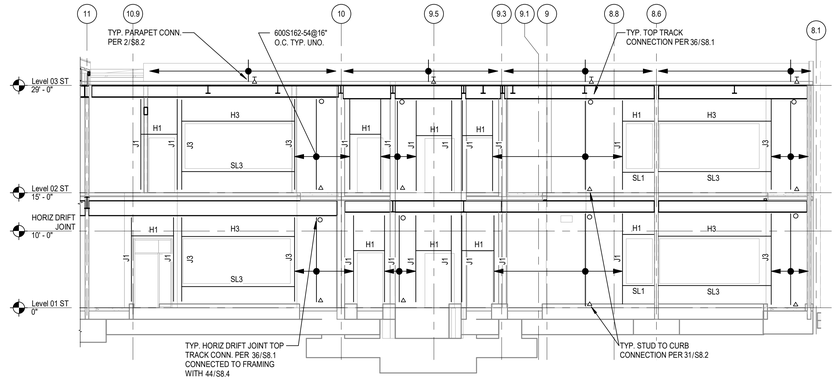
21 S2.2 EXTERIOR WALL ELEVATION AT 11
SCALE: 1/8" = 1'-0"



24 S2.2 EXTERIOR WALL ELEVATION AT A.1
SCALE: 1/8" = 1'-0"



41 S2.2 EXTERIOR WALL ELEVATION AT 13
SCALE: 1/8" = 1'-0"



44 S2.2 EXTERIOR WALL ELEVATION AT B.1
SCALE: 1/8" = 1'-0"

EXTERIOR FACADE SUPPORT LEGEND

○	INDICATES OUT-OF-PLANE LATERAL SUPPORT (VERT. AND HORZ. IN-PLANE SLIP, HORZ. OUT-OF-PLANE RESTRAINT)
△	INDICATES PINNED VERT. AND LATERAL SUPPORT (VERT., HORZ. IN-PLANE AND HORZ. OUT-OF-PLANE RESTRAINT)
⧊	INDICATES RIGID (FULLY FIXED) SUPPORT FOR CANTILEVERED STUD (VERT., HORZ. IN-PLANE AND HORZ. OUT-OF-PLANE RESTRAINT AT TOP AND BOTTOM OF STUD)

REGISTERED PROFESSIONAL ENGINEER
DANIEL LEE ARNOLD
6351
STRUCTURAL
STATE OF CALIFORNIA
EXP: 03/31/2025
STAMP DATE: 12/02/2024

Rosemead Adult Education and Transition Center / Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 11/20/2023

SUBMITTAL TITLE

4	AD004	12/02/2024

EXTERIOR WALL ELEVATIONS

S2.2

BUILDING ELEVATION NOTES:

1. VERIFY ALL DIMENSIONS PRIOR TO START OF WORK. SEE ARCHITECTURAL DRAWINGS FOR REMAINDER OF DIMENSIONS NOT SHOWN ON THIS PLAN.
2. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE SLAB ELEVATIONS, DEPRESSIONS, SLOPES, OPENINGS, CURBS, DRAINS, TRENCHES, SLAB EDGE LOCATIONS, ETC., AND FOR WALL OVERALL DIMENSIONS, LOCATIONS OF OPENINGS, ETC., NOT INDICATED ON STRUCTURAL DRAWINGS.
3. CONSTRUCT LIGHT GAUGE METAL FRAMING PER DETAILS, ELEVATIONS AND SCHEDULES ON THIS SHEET, UNO.
4. WHERE VERTICAL STUDS DO NOT RECEIVE RIGID FINISH ON BOTH SIDES, PROVIDE LATERAL BRIDGING PER .

LIGHTGAGE METAL STUD PROPERTIES:

550 S 162 - 54

- 550 — INDICATES MATERIAL THICKNESS (16GA = 54 MILS, SEE SCHEDULE)
- 162 — INDICATES FLANGE WIDTH (1 5/8" = 162x1/100 INCHES)
- S — INDICATES STUD OR JOIST SECTION
- 54 — INDICATES MEMBER DEPTH (5 1/2" = 550x1/100 INCHES)

EFFECTIVE METAL STUD DESIGNATION	EFFECTIVE SECTION MODULES Sx (IN³)	EFFECTIVE MOMENT OF INERTIA Ix (IN⁴)	EFFECTIVE SECTION MODULES Sy (IN³)	EFFECTIVE MOMENT OF INERTIA Iy (IN⁴)
600S162-43	0.767	2.316	0.108	0.148
600S162-54	0.916	3.320	0.131	0.180
600S250-68	1.386	4.723	0.351	0.688
600S300-68	1.446	5.221	0.462	1.075
600S300-97	2.247	7.28	0.656	1.454
600S300-118	2.797	8.713	0.787	1.704
600S300-54	1.335	4.721	0.550	1.491
600T250-54	0.732	2.953	0.052	0.377
600S350-97	2.593	8.631	1.036	2.518
600X425-54	0.275	0.862	1.200	4.056
600XTC425-54	0.639	1.649	2.026	6.543
600XTC425-68	0.852	2.154	2.607	8.220
600T250-97	1.656	6.157	0.217	0.661
600T150-54	0.609	2.400	0.036	0.091
600T200-54	0.717	2.641	0.045	0.203
600S350-97	2.593	8.631	1.036	2.518
400S162-43	0.417	0.892	0.107	0.131
400S162-54	0.498	1.098	0.130	0.159
400T150-43	0.293	0.811	0.030	0.066
400T150-54	0.374	0.918	0.039	0.082

NOTE: FOR SECTIONS NOT LISTED ABOVE REFER TO SSMA CATALOG (ICC ESR-3064P).

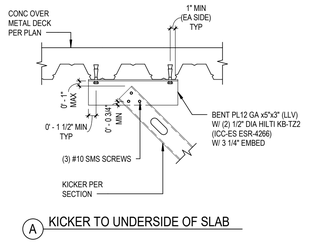
METAL STUD FRAMING SCHEDULE:

LIGHTGAGE STUD SCHEDULE	
MARK (PER ELEVATION)	DESCRIPTION
S1	600S162-54 @ 16" OC

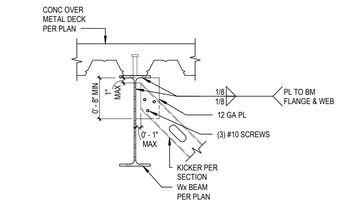
LIGHTGAGE JAMB SCHEDULE			
MARK (PER ELEVATION)	DESCRIPTION	SECTION	BOTTOM TRACK CONNECTION
J1	(3) 600S162-43	56/S8.1	54/S8.1
J2	(4) 600S162-33	56/S8.1	54/S8.1
J3	(4) 600S162-43	56/S8.1	54/S8.1
J4	(4) 600S250-54	56/S8.1	54/S8.1

LIGHTGAGE HEADER SCHEDULE			
MARK (PER ELEVATION)	DESCRIPTION	CONNECTION TO JAMB	REMARKS
H1	(2) 800S162-33 VERT + (2) 600T125-54 HORIZ	32/S8.1	
H2	(2) 1000S250-54 VERT + (2) 600T125-54 HORIZ + 600S162-54 HORIZ	32/S8.1	
H3	(2) 1200S300-97 VERT + (3) 600T125-54 HORIZ + 600S162-54 HORIZ	32/S8.1	

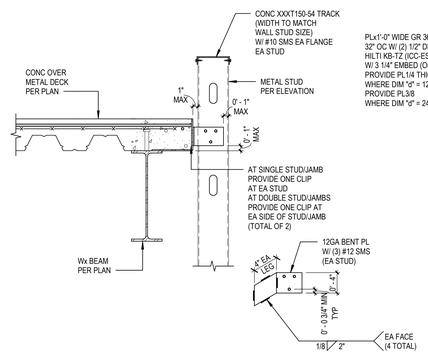
LIGHTGAGE SILL SCHEDULE			
MARK (PER ELEVATION)	DESCRIPTION	CONNECTION TO JAMB	REMARKS
SL1	600S162-33 VERT + (2) 600T125-33 HORIZ	32/S8.1	
SL2	600S162-33 VERT + (2) 600T125-33 HORIZ	32/S8.1	
SL3	(2) 600S162-33 VERT + (2) 600T125-53 HORIZ	32/S8.1	

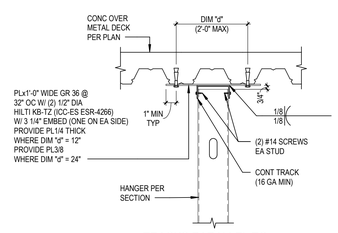


A KICKER TO UNDERSIDE OF SLAB

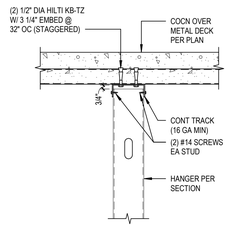


B KICKER PERPENDICULAR TO STEEL BEAM

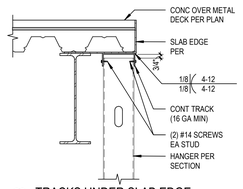




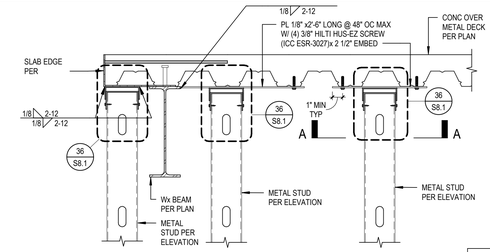
A TRACKS PARALLEL TO DECK FLUTE



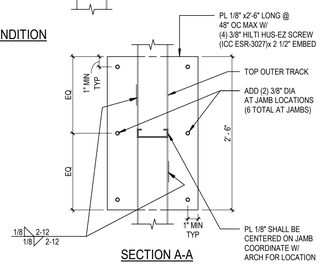
B TRACKS PERPENDICULAR TO DECK FLUTE



C TRACKS UNDER SLAB EDGE

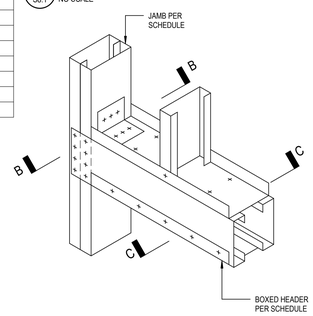


INTERMEDIATE CONDITION

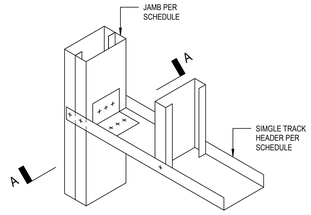


SECTION A-A

22 S8.1 TYP KICKER TO UNDERSIDE OF SLAB
NO SCALE

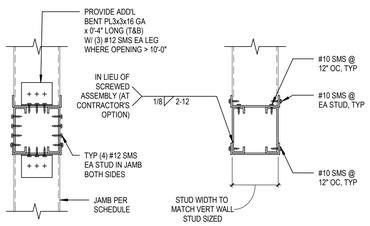


B BOXED HEADER/SILL (HEADER SHOWN, SILL SIMILAR)



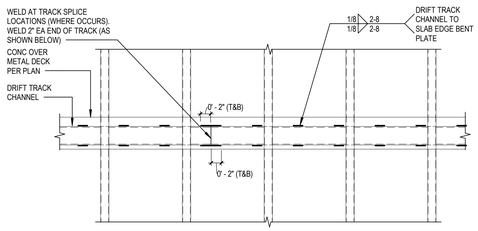
A SINGLE TRACK HEADER/SILL (HEADER SHOWN, SILL SIMILAR)

12 S8.1 TYP RIGID CONNECTION DETAIL
NO SCALE



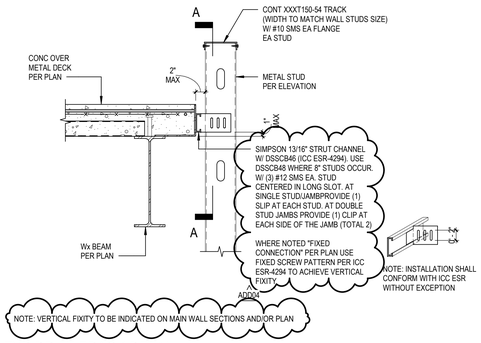
SECTION B-B SECTION C-C

13 S8.1 TYP HANGER TOP CONNECTION
NO SCALE

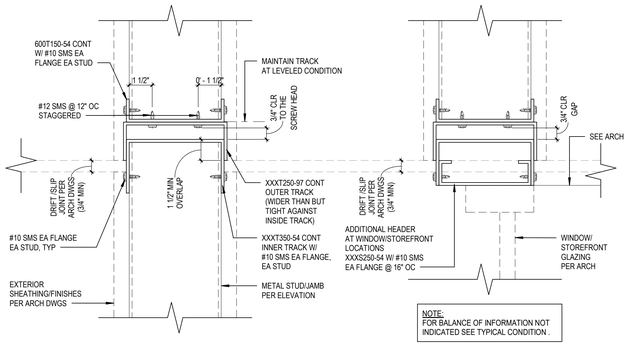


NOTE: STEEL BEAM NOT SHOWN FOR CLARITY

ELEVATION A-A



16 S8.1 TYP NESTED TRACK AT UNDERSIDE OF SLAB
NO SCALE



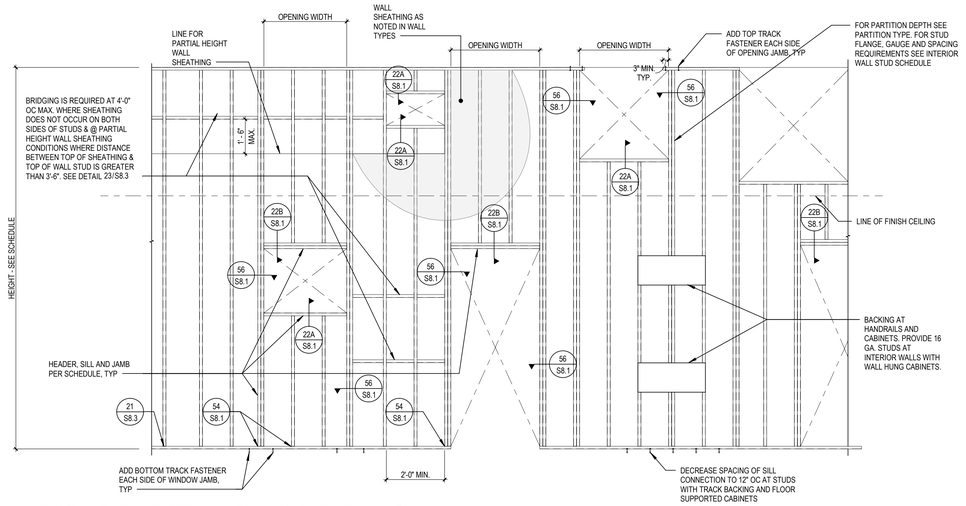
TYPICAL CONDITION (UNO) WINDOW/STOREFRONT CONDITION

31 S8.1 TYP EXTERIOR METAL STUD SCHEDULES
NO SCALE

32 S8.1 TYP HEADER/SILL CONNECTION TO JAMB
NO SCALE

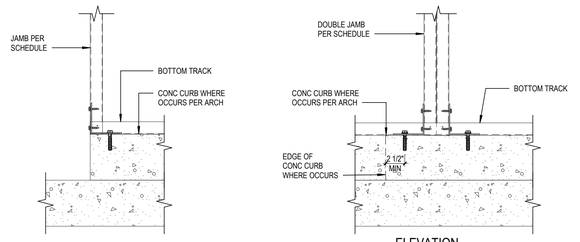
34 S8.1 TYP DRIFT TRACK DETAIL
NO SCALE

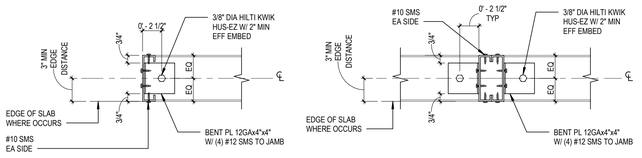
36 S8.1 TYP NESTED TRACK DETAIL
NO SCALE



TYPICAL OPENING DETAIL IN COLD-FORMED FRAMING

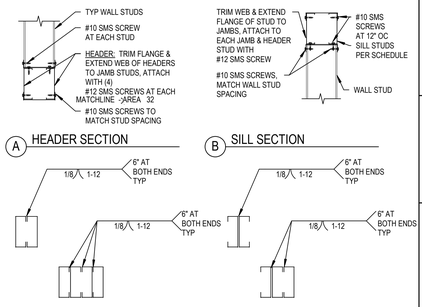
51 S8.1 DETAIL
NO SCALE





A SINGLE JAMB TO BOTTOM TRACK B DOUBLE JAMB TO BOTTOM TRACK

54 S8.1 TYP JAMB CONNECTION
NO SCALE



A HEADER SECTION B SILL SECTION C JAMB SECTIONS D ALTERNATE JAMB SECTION

56 S8.1 TYP BOXED JAMB SECTION
NO SCALE

REGISTERED PROFESSIONAL ENGINEER DANIEL LEE ARNOLD 6351 STRUCTURAL STATE OF CALIFORNIA
EXP: 03/31/2025
STAMP DATE: 12/02/2024

Rosemead Adult Education and Transition Center / Modernization

El Monte Union High School District
4105 ROSEMEAD BLVD, ROSEMEAD, CA 91770

CONSTRUCTION DOCUMENTS

DLR Group
Architecture Engineering Planning Interiors

DSA APPLICATION NO: 03-122743
DSA FILE NO: 19-H10
DLR PROJECT NO: 75-20223-02
ISSUE DATE: 11/20/2023

SUBMITTAL TITLE

4	ADD04	12/02/2024

TYPICAL EXTERIOR METAL STUD DETAILS

S8.1

SECTION 07 26 00 - VAPOR RETARDERS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Polyethylene vapor retarders.
2. Under-slab vapor retarders. **ADD 04**

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

1.4 INFORMATIONAL SUBMITTALS

A. Product Test Reports: For each product, for tests performed by a qualified testing agency.

PART 2 - PRODUCTS

2.1 POLYETHYLENE VAPOR RETARDERS

A. Polyethylene Vapor Retarders: ASTM D4397, 6-mil-thick sheet, with maximum permeance rating of 0.1 perm.

2.2 UNDER-SLAB VAPOR RETARDERS **ADD 04**

A. Sheet Vapor Retarder: ASTM E 1745, Class A. Include manufacturer's recommended adhesive or pressure-sensitive tape and pipe penetration boots. Membrane shall have a permeance rate no greater than 0.01 grains/($ft^2 \cdot hr \cdot inHg$) after mandatory conditioning tests per ASTM E 1745 (7.1.1 – 7.1.5) when tested in accordance with ASTM E96. Not less than 15 mils thick.

B. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to the following:

1. Barrier-Bac; Interplast Group, Ltd.
2. Fortifiber Bulding Systems Group
3. Raven Industries, Inc.
4. Stego Industries, Inc.
5. W.R. Meadows, Inc.

2.3 ACCESSORIES

A. Vapor-Retarder Tape: Pressure-sensitive tape of type recommended by vapor-retarder manufacturer for sealing joints and penetrations in vapor retarder.

B. Adhesive for Vapor Retarders: Product recommended by vapor-retarder manufacturer and has demonstrated capability to bond vapor retarders securely to substrates indicated.

C. Vapor-Retarder Fasteners: Pancake-head, self-tapping steel drill screws; with fender washers.

PART 3 - EXECUTION

3.1 PREPARATION

A. Clean substrates of substances that are harmful to vapor retarders, including removing projections capable of puncturing vapor retarders.

3.2 INSTALLATION OF VAPOR RETARDERS ON FRAMING

A. Place vapor retarders on side of construction indicated on Drawings.

B. Extend vapor retarders to extremities of areas to protect from vapor transmission. Secure vapor retarders in place with adhesives, vapor retarder fasteners, or other anchorage system as recommended by manufacturer. Extend vapor retarders to cover miscellaneous voids in insulated substrates, including those filled with loose-fiber insulation.

C. Seal vertical joints in vapor retarders over framing by lapping no fewer than two studs and sealing with vapor-retarder tape according to vapor-retarder manufacturer's written instructions. Locate all joints over framing members or other solid substrates.

D. Seal joints caused by pipes, conduits, electrical boxes, and similar items penetrating vapor retarders with vapor-retarder tape to create an airtight seal between penetrating objects and vapor retarders.

E. Repair tears or punctures in vapor retarders immediately before concealment by other work. Cover with vapor-retarder tape or another layer of vapor retarders.

3.3 UNDER-SLAB VAPOR RETARDER INSTALLATION **ADD 04**

A. Sheet Vapor Retarders: Place, protect, and repair sheet vapor retarder according to ASTM E 1643, ACI 302, and manufacturer's written instructions.
   1. Lap joints 6 inches (150mm) and seal with manufacturer's recommended tape.
   2. Refer to geotechnical recommendations.

B. Bituminous Vapor Retarders: Place, protect, and repair bituminous vapor retarder according to manufacturer's written instructions.

3.4 PROTECTION

A. Protect vapor retarders from damage until concealed by permanent construction.

END OF SECTION 07 26 00

SECTION 28 31 00 - ANALOG ADDRESSABLE FIRE ALARM SYSTEM WITH INTEGRAL EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM ADD 04

PART 1 - GENERAL

1.1 SCOPE

The contractor shall furnish and install a Silent Knight Farenhyt Series IFP-2000ECS 24VDC analog addressable fire alarm system with integral Emergency Voice/Alarm Communication System, IDP protocol addressable initiation devices and System Sensor two-wire synchronized notification devices. This system is the Board of Education approved District Standard for Fire Alarm Systems. The Fire Alarm System shall be UL 864, 9th edition compliant and California State Fire Marshal listed.

A. By submission of a Prime Bid for this project, the Prime Bidder assumes complete and total responsibility for himself and his subcontractors' compliance with this specification in its entirety. If found to be not in compliance with any part of this specification, the Prime Bidder shall bear any burden, financial or otherwise, required to complete the work of this specification to the total satisfaction of El Monte Unified School District.

1. The Fire Alarm System shall be furnished and installed by a Silent Knight Select Farenhyt Engineered Systems Distributor in good standing ~~at the time of the bid~~. Upon demand by the owner or his representative, the Prime Contractor shall provide proof that he or his listed subcontractor was a Silent Knight Select Farenhyt Engineered Systems Distributor at the time of the bid. ~~Failure to produce said proof shall render the Prime Contractor's bid non-responsive and shall be considered grounds for immediate disqualification of his prime bid.~~

a) For the purposes of this bid, Prime Bidders shall include the Fire Alarm Contractor on their List of Subcontractors that is submitted with their bid. ~~regardless of subcontractor tier. Failure to list the Fire Alarm Contractor shall render the Prime Bidder in non-compliance with this specification and shall render his bid non-responsive and shall be considered grounds for immediate disqualification of his prime bid.~~

b) The Silent Knight Select Farenhyt Engineered Systems Distributor shall furnish all labor, materials, appliances, cabling, tools, equipment, facilities, transportation and services necessary for and incidental to the performance of all operations in connection with furnishing, delivery and installation of all equipment, cabling, programming, configuration, testing and training required by this Section, complete as indicated in the applicable Contract Drawings and/or specified herein.

1) Systems furnished and/or installed by contractors who are not Silent Knight Select Farenhyt Engineered Systems Distributor shall be considered in non-compliance with this specification and subject to replacement at the expense of the Prime Contractor.

B. This specification provides the requirements for the installation, programming, configuration, testing and maintenance of a complete analog addressable fire alarm system. This system shall include, but shall not be limited to:

1. Main Fire Alarm Control Panel (FACP)

a) Network Nodes (on network systems only)

1) Network Interface Module
2) Fiber optic or copper network connection circuits

b) System cabinet
c) Power supply

2. Digital Signaling Line Circuits (SLC)
3. Notification Appliance Circuits (NAC)
4. RS-485 Serial Communication Bus (S-bus)
5. Voice Communication Bus (V-bus, on systems with voice evacuation only)
6. Annunciators both integral and remote
7. Batteries
8. Wiring
9. Conduit
10. Associated peripheral devices and modules
11. Other relevant components and accessories required to furnish and install a complete and operational fully automatic, addressable reporting Life Safety System.

C. The fire alarm system shall be capable of providing, at a minimum, the following:

1. Fire Alarm Control Panel (FACP)

a) Integral Digital Alarm Communications Transmitter (DACT).
b) Network Interface capability via copper and/or fiber optic network.

2. Analog addressable initiation devices
3. Analog addressable monitor and/or control modules
4. Notification appliances
a) Compatible with combination horn/strobe two-wire synchronized circuit.

5. Notification Appliance Circuit (NAC) remote power supply

a) RPS-1000 Remote Power Supply shall provide the capability of housing the 5815XL SLC Expander for remote SLC generation.
b) Combination horn/strobe two-wire circuit.
c) Built-in synchronization capabilities

6. Integral Voice Evacuation capability
7. Firefighter Telephone capability

D. Any material and/or equipment necessary for the proper operation of the system, which is not specified or described herein, shall be deemed part of this Specification.

E. The Analog Addressable Fire Alarm System specified herein shall be connected to a UL Listed Central Station Monitoring Company via UL and California State Fire Marshal listed radio transmitter.

1. Radio Transmitter for Central Station Monitoring shall be AES Intellinet provided by Allen Alarms.

F. Contractor shall offer code required fire alarm system inspection and maintenance contract.

1.2 QUALIFICATIONS

A. Equipment

1. This specification is based on the equipment of manufacturer(s) who have been approved by the Owner and the Manufacturer(s) herein named shall be considered as meeting the requirements of this specification.
2. The equipment manufacturer shall be a United States manufacturer, who has been regularly engaged in the manufacture of fire alarm systems for at least twenty-five (25) years.
3. The Board of Education approved District Standard for Fire Alarm Systems is Silent Knight Farenhyt IFP-2000 (IFP-2000ECS for voice evacuation systems).

    a) Equipment provided for this project shall be the product of Silent Knight Farenhyt by Honeywell. No substitutions shall be approved.

        1) Contact Silent Knight West Coast Regional Sales Manager Charlie Gallardo (763) 493-6400 for a list of Silent Knight Select Farenhyt Engineered Systems Distributors for the Southern California Area.

4. It is the Contractor's responsibility to meet the entire intent of these specifications. Deviations from the specified items shall be at the risk of the Contractor until the date of final acceptance by the Architect of Record, Engineer of Record and the Owner's representative. All costs for removal, relocation or replacement of a substituted item shall be at the risk of the Prime Contractor.
5. All equipment shall conform to currently adopted applicable codes and ordinances.
6. All equipment shall be California State Fire Marshal (CSFM) listed.
7. All equipment shall bear the label of a Nationally Recognized Testing Laboratory (NRTL) such as Intertek Testing Services NA, Inc. (ITSNA - formerly ETL) or Underwriters Laboratories Inc. (UL) and be listed by their re-examination service.

B. System Supplier/Installer

1. The system shall be furnished and installed by a Silent Knight Select Farenhyt Engineered Systems Distributor who is trained and certified by the Manufacturer in the proper installation, programming, configuration, testing, service and maintenance of the systems specified herein.
2. Subsequent to a successful bid and upon request of the Owner the System Supplier/Installer shall submit a qualification documentation package which shall include the following:

    a) Evidence of current status as a Silent Knight Select Farenhyt Engineered Systems Distributor.
    b) Certificate indicating that the contractor employs a minimum of four (4) Farenhyt PHD Certified Technicians.
    c) Certificates indicating that a minimum of four (4) technicians have attended and completed all requirements of the IFP-2000 training course.
    d) A list of twenty (20) completed projects of equal scope, with associated Owners Representative contact names and telephone numbers.
    e) Evidence of current State of California Contractor's License, C-10.

f) Evidence of current State of California Alarm Company Operator License, ACO.

g) Per California law all individuals involved in the installation of the fire alarm system shall hold a valid State of California, Division of Apprenticeship Standards (DAS), Fire/Life Safety Technician Certification.

1) Evidence of DAS certification shall be provided immediately upon request at the project site.

h) The System Supplier/Installer shall show satisfactory evidence, upon request, that he maintains a fully equipped service organization capable of furnishing adequate inspection, service and maintenance of the system.

i) The System Supplier/Installer shall maintain at his facility the necessary spare parts in the proper proportion as recommended by the manufacturer to maintain and service the equipment being supplied.

j) The System Supplier/Installer shall be prepared to offer a service contract for the maintenance of the system beyond the warranty period.

k) The System Supplier/Installer shall provide proof that they maintain a complete service and maintenance center within 50 miles of the project address. A complete service center shall include replacement parts in stock in the quantities deemed sufficient by the owner or its representatives.

1.3 RELATED SPECIFICATIONS

A. The conditions of the General Contract (General, Supplementary, and other Conditions) and the Division 1 - General Requirements specifications are hereby made a part of this Section.

1. Section 26 01 00 – Basic Electrical Requirements
2. Section 26 01 11 – Conduit
3. Section 26 01 30 – Boxes
4. Section 26 01 60 – Cabinets and Enclosures
5. Section 26 05 32 – Identification for Electrical Systems

1.4 RELATED WORK BY OTHERS

A. Reference Part 3, sub-section 3.01 of this specification.

1.5 RELATED DOCUMENTS

A. In the event of a conflict between this specification and the construction drawings this specification shall take precedence.

1.6 APPLICABLE CODES & STANDARDS

A. The Fire Alarm System shall comply with the currently adopted versions of the following:

1. Building Standards Administrative Code, Part 1, Title 24, California Code of Regulations
2. California Building Code (CBC) Part 2, Title 24, California Code of Regulations (International Building Code, with California Amendments)

3. California Electrical Code (CEC) Part 3, Title 24, California Code of Regulations (National Electrical Code with California Amendments)
4. California Mechanical Code (CFC) Part 4, Title 24, California Code of Regulations (Uniform Mechanical Code with California Amendments)
5. California Fire Code (CFC) Part 9, Title 24, California Code of Regulations (International Fire Code with California Amendments)

B. NFPA Standards

1. The fire alarm system shall comply with the applicable provisions of the following current National Fire Protection Association (NFPA) standards:

a) NFPA 12 Carbon Dioxide Extinguishing Systems
b) NFPA 12A Halon 1301 Fire Extinguishing Systems
c) NFPA 13 Installation of Sprinkler Systems
d) NFPA 15 Water Spray Fixed Systems
e) NFPA 16 Foam-Water Sprinkler Systems
f) NFPA 17 Dry Chemical Extinguishing Systems
g) NFPA 17A Wet Chemical Extinguishing Systems
h) NFPA 72, National Fire Alarm and Signaling Code:

1) Central Station Fire Alarm Systems
2) Local Fire Alarm Systems
3) Auxiliary Fire Alarm Systems
4) Remote Station Fire Alarm Systems
5) Proprietary Fire Alarm Systems

i) NFPA 90A, Installation of Air Conditioning and Ventilating Systems
j) NFPA 101, Life Safety Code - Safety to Life from Fire in Buildings and Structures
k) NFPA 750 Water Mist Fire Protection Systems
l) NFPA 2001 Clean Agent Fire Extinguishing Systems

C. ADA - Americans with Disabilities Act

D. CAC – California Administrative Code, Title 24

E. U.L. Standards

1. The system shall comply with the applicable provisions of the following U.L. Standards and Classifications:

a) UL 38, Manual Signaling Boxes for Fire Alarm Systems
b) UL 268, Smoke Detectors for Fire Alarm Systems
c) UL 268A, Smoke Detectors for Duct Applications
d) UL 346, Waterflow Indicators for Fire Protective Signaling Systems
e) UL 464, Audible Signal Appliances
f) UL 521, Heat Detectors for Fire Protective Signaling Systems
g) UL 864, Control Units and Accessories for Fire Alarm Systems
h) UL 1480, Speakers for Fire Alarm Use
i) UL 1481, Power Supplies for Fire Protective Signaling Systems

j) UL 1635, Digital Alarm Communicator System Units
k) UL 1638, Visual Signaling Appliances
l) UL 1971, Signaling Devices for the Hearing Impaired
m) UOJZ, Control Units, System
n) SYZV, Control Units, Releasing Device
o) UOXX, Control Unit Accessories, System
p) SYSW, Accessories, Releasing Device Service

1.7 SUBSTITUTIONS

A. Silent Knight is the Board of Education Approved District Standard for Fire Alarm Systems. No substitutions shall be approved.

1.8 SUBMITTALS

A. Within thirty-five (35) calendar days after the date of the award of the contract, the Contractor shall submit to the Architect for review, eight (8) copies of a complete Submittal Package. The Submittal Package shall consist of the following sections, with each section separated with index tabs.

1. Title Page

a) Project Title
b) Owner's name
c) Architect's name
d) Electrical Engineer's name
e) Contractor's name

2. Index of Submittal Contents

a) Each Section of the Submittal Package shall be numbered chronologically and shall be summarized in the Index.

3. Certifications

a) Index of Certification Section Contents
b) Valid State of California Contractors License
c) Manufacturer's Certifications

1) Silent Knight Select Farenhyt Engineered Systems Distributor
2) Silent Knight Farenhyt PHD Certified Technician
3) Factory Trained Technician (IFP-2000)

d) California DAS, Fire/Life Safety Technician Certifications

4. Project List

a) A substantial list (minimum of 20) of completed projects equal in scope to that specified herein.
1) Contact information shall be made available upon request.

5. Product Data

    a) Index of Equipment Data Sheets
    b) Manufacturer's Data Sheets including cable types
    c) Applicable Listings and Approvals

PART 2 - PRODUCTS

2.1 SYSTEM REQUIREMENTS

A. Basic Performance and Capabilities

1. System shall be fully programmable and configurable on site to accommodate system expansions and facilitate changes in operation.
2. All software programs shall be stored in non-volatile programmable memory within the FACP.

    a) Loss of primary and secondary power shall not erase the instructions stored in the memory.
    b) System programming shall be password protected.

3. Alarm, supervisory and trouble signals from analog addressable devices shall be encoded onto NFPA Class B signaling line circuits (SLC).
4. Initiation device circuits (IDC) shall be wired NFPA Class B.
5. Notification appliance circuits shall be wired NFPA Class B.
6. A single ground or open on any system SLC, IDC or NAC shall not cause a system malfunction, loss of operating power or the ability to report an alarm.
7. Alarm signals arriving at the main FACP shall not be lost due to a power failure.
8. Per NFPA 72, the system shall be provided with sufficient battery capacity to operate the entire system upon loss of 120 VAC power in a normal supervisory mode for a period of twenty four (24) hours with fifteen (15) minutes of alarm indication at the end of this period.
9. The system shall automatically transfer to the standby batteries upon power failure. All battery charging and recharging operations shall be automatic. Batteries, once discharged, shall recharge at a rate that complies with NFPA 72 section 10.6.10.3.

B. System Functional Operation

1. The actuation of any approved alarm initiating device shall automatically initiate the following functions:

    a) Alarm LED on the FACP shall flash.
    b) Local audible piezo electronic signal in the FACP shall sound.
    c) The alarm condition description, including the type of point and the location within the protected premises, shall be displayed on the LCD display at the FACP and any remote annunciator(s).
    d) System shall transmit the condition to a UL Listed Central Station Monitoring Facility. Supervising station shall be approved per CFC section 907.6.5.3 (2013).
    e) Printing and history storage equipment shall log the information associated with the condition, including the time and date of the alarm occurrence.

f) System output programs configured via control-by-event (CBE) programming to be activated by the particular point in alarm shall be executed, and the associated system output (alarm notification appliances and relays) shall be activated on either local outputs or points located on other network nodes.

2. The actuation of any approved supervisory alarm initiating device shall automatically initiate the following functions:

a) Supervisory LED on the FACP shall flash.
b) Local audible piezo electronic signal in the FACP shall sound.
c) The supervisory condition description, including the type of point and the location within the protected premises, shall be displayed on the LCD display at the FACP and any remote annunciator(s).
d) System shall transmit the condition to a UL Listed Central Station Monitoring Facility. Supervising station shall be approved per CFC section 907.6.5.3 (2013).
e) Printing and history storage equipment shall log the information associated with the condition, including the time and date of the supervisory alarm occurrence.
f) System output programs configured via control-by-event (CBE) programming to be activated by the particular point in supervisory alarm shall be executed, and the associated system outputs (relays) shall be activated on either local outputs or points located on other network nodes.

3. Whenever a trouble condition is detected and reported the FACP shall automatically initiate the following functions:

a) Trouble LED on the FACP shall flash.
b) Local audible piezo electronic signal in the FACP shall sound.
c) The trouble condition description, including the type of point and the location within the protected premises, shall be displayed on the LCD display at the FACP and any remote annunciator(s).
d) System shall transmit the condition to a UL Listed Central Station Monitoring Facility. Supervising station shall be approved per CFC section 907.6.5.3 (2013).
e) Printing and history storage equipment shall log the information associated with the condition, including the time and date of the trouble condition occurrence.
f) System output programs configured via control-by-event (CBE) programming to be activated by the particular point in trouble condition shall be executed, and the associated system outputs (relays) shall be activated on either local outputs or points located on other network nodes.

C. Test Functions

1. A “Lamp Test” or “Indicator Test mode shall be a standard feature of the FACP and shall test all LED’s and the LCD display on the main FACP and remote annunciators.
2. A “Walk Test” mode shall be a standard feature of the FACP.

a) The Walk Test feature shall function so that each alarm input tested shall operate the associated notification appliance for two seconds. The FACP will then automatically reset and confirm normal device operation.
b) The event memory shall contain the information on the point tested, the zone tripped, the zone restore and the individual point’s return to normal.

3. A “Fire Drill mode shall allow the manual testing of the Fire Alarm System notification circuits. The Fire Drill shall be capable of being initiated at the main annunciator, remote annunciators and via a remote contact input.
4. “Bypass Mode” shall allow for any point or NAC circuit to be bypassed without affecting the operation of the total Fire Alarm System.

D. Remote Monitoring Connection

1. The fire alarm system shall be connected via Digital Alarm Communicator Transmitter (DACT) and an NFPA 72, Chapter 26 compliant transmission channel(s) to a UL Listed Central Station Monitoring Company.

a) The fire alarm control panel shall provide an integral Digital Alarm Communicator Transmitter (DACT) for signaling to a UL Listed Central Station Monitoring Company.

1) The fire alarm system shall transmit alarm, supervisory alarm and trouble signals with the alarms having priority over the trouble signal.

2.2 SYSTEM COMPONENTS

A. Fire Alarm Control Panel (FACP)

1. The FACP shall be a Silent Knight Farenhyt IFP-2000 or IFP-2000ECS

a) The basic control panel shall provide:

1) 9 amp power supply expandable to 45 amps via bus connected expander modules
2) Network Interface Module (only required if this system is to be a part of a network)

(a) The network interface module shall be a Silent Knight Farenhyt IFP-RPT-FO-KIT Network Repeater KIT for fiber optic or unshielded twisted pair cable connections.

(1) 16AWG unshielded twisted pair FPL (SLC) cable shall be used for copper wiring network connections up to a maximum distance of 3000 feet.
(2) 6-strand, 62.5/125 micron multimode fiber optic cable with ST connectors shall be used for fiber optic cable connections.

(i) Installers of fiber optic cable shall be certified by the manufacturer of the cable and connectivity used.
(ii) Fiber optic cable shall be tested utilizing and industry standardized method.
(iii) Provide fiber optic patch cables as required for a complete and operable system.

3) One (1) Signaling Line Circuit (SLC) capable of supporting 159 addressable detectors and 159 addressable modules

(a) Additional SLC's may be added via expander modules to a maximum of 636 addressable points per panel, 10,176 addressable points per network

4) Eight (8) programmable "Flexputs"

(a) Programmable Flexput Circuits shall be capable of being programmed as supervised reverse polarity notification appliance circuits, supervised auxiliary power circuits (continuous or resettable), door holder power or as input circuits in Class A or Class B configuration to support dry contact devices or compatible two-wire smoke detectors

5) 160 character LCD annunciator

(a) Capability of supervising 8 additional remote annunciators

6) Integral UL listed Digital Alarm Communicator Transmitter (DACT)
7) Ability to automatically test smoke detectors in compliance with NFPA Standards to ensure that they are within listed sensitivity parameters
8) Compensation for accumulation of contaminants that affect detector sensitivity
9) Day/night sensitivity adjustments
10) Maintenance alert feature (differentiated from trouble condition)
11) Detector sensitivity selection
12) Over-current Protection

(a) All low-voltage circuits shall be protected by microprocessor controlled power limiting or have a self-restoring polyswitch.

13) Ground Fault Detection

(a) The ground fault detector shall operate the general trouble devices as specified but shall not cause an alarm to be sounded.
(b) Ground fault shall not interfere with the normal operation of the system, such as alarm or trouble conditions.

14) Auto-programming mode (Jumpstart)

(a) Jumpstart feature shall automatically enroll all properly connected devices into a functional system within 60 seconds of power up of the panel

15) Ability to upgrade the core operating software on site or over the telephone
16) RS-485 Serial Communication Bus (S-bus). Systems that do not communicate with Intelligent Modules via RS-485 Serial Communication Bus shall not be deemed equal and shall not be acceptable for this project.

(a) S-bus shall be of Class A or Class B configuration with a total bus length of 6000 feet.

2. The FACP shall be capable of operating and supervising notification appliance devices as well as addressable initiating detection devices and an integrated supervised dual line digital communicator.

B. Fire Alarm Control Panel with integral Emergency Voice/Alarm Communication System.

1. The Voice Evacuation Control Panel shall be Silent Knight Farenhyt IFP-2000ECS.

a) The IFP-2000ECS shall be the FACP on all systems where Networking is not required (Small elementary schools and middle schools) for compliance with CFC required Emergency Voice/Alarm Communication in K -12 schools.
b) Remote Voice Evacuation Amplifiers shall be:

1) Silent Knight Farenhyt ECS-50W
2) Silent Knight Farenhyt ECS-DUAL50W
3) Silent Knight Farenhyt ECS-125W.

C. Network Nodes

1. Network Nodes, if required, shall be Silent Knight Farenhyt IFP-2000 or IFP-2000ECS.

a) All Network systems shall have at least one (1) IFP-2000ECS node for compliance with CFC required Emergency Voice/Alarm Communication in K -12 schools.
b) All Network Nodes shall have the capability of being connected with either copper cable or fiber optic cable.

D. Remote Annunciator

1. The remote annunciator shall be Silent Knight Farenhyt RA-2000

a) The remote annunciator shall have 160 character LCD display and 5 LED’s for general alarm, supervisory, systems trouble, system silence and system power.
b) The remote annunciator shall have the same control and display layout as the integrated annunciator at the FACP.
c) The remote annunciator shall have the same functionality and operation as the integrated annunciator at the FACP.
d) The remote annunciator shall have twenty (20) levels of user codes to limit access to the system to authorized individuals.
e) The remote annunciators shall be capable of operating at a maximum wiring distance of 6,000 feet from the control unit on unshielded, non-twisted cable.
f) The system shall support a maximum of eight (8) remote annunciators.

E. The Serial/Parallel Interface Gateway Module shall be Silent Knight Farenhyt 5824

1. The 5824 shall be connected to the S-bus and provide serial and parallel ports for connection to peripheral devices.

F. Remote Power Supply

1. The Intelligent Remote Power Supply shall be Silent Knight Farenhyt RPS-1000 or Silent Knight 5496.

a) The Intelligent Remote Power Supply shall be connected to the FACP via S-bus.

1) The RPS-1000 shall have the capability of accommodating all IFP-2000 add-on modules including the 5815XL SLC Expander.
2) The RPS-1000 shall have 6 amps of output power, six flexput circuits rated at 3 amps each and two form C relay circuits rated at 2.5 amps at 24VDC.
3) The 5496 shall have 6 amps of output power, 4 output circuits that may be programmed as NAC or Auxiliary Power.

b) The Intelligent Remote Power Supply shall act as a bus repeater allowing connection of additional S-bus devices to a maximum wiring distance of 6,000 feet from the power supply.

c) The Intelligent Remote Power Supply shall have on-board synchronization for System Sensor NAC devices.

1) Horns and strobes shall be synchronized on the same two-wire NAC circuit.

G. Signaling Line Circuit (SLC) Devices

1. Each SLC shall be capable to accommodating 159 addressable detectors and 159 addressable modules.
2. Provide SLC devices as indicated on the construction drawings. All devices shall be listed for compatibility with the IFP-2000 FACP.

a) SLC Isolation Module shall be Silent Knight IDP-ISO.
b) Ceiling mounted smoke detector shall be Silent Knight IDP-Photo.
c) Ceiling mounted fixed temperature heat detector shall be Silent Knight IDP-Heat-HT.
d) Attic mounted heat detector shall be Silent Knight IDP-Heat-HT or System Sensor 5602 with IDP-Minimon Monitor Module.
e) Outdoor elevator lobby device shall be Weatherproof Conventional Heat Detector Thermotech #302-AW-135 with IDP-Minimon Monitor Module.
f) Addressable Relay Module shall be Silent Knight IDP-Relay.
g) Addressable Input Module shall be Silent Knight IDP-Monitor.
h) Addressable Mini Input Module shall be Silent Knight IDP-Minimon.
i) Addressable Beam Detector shall be Silent Knight IDP-Beam-T
j) Addressable Manual Pull Station shall be Silent Knight IDP-Pull-DA.
k) Addressable Duct Mounted Smoke Detector shall be Silent Knight IDP-PhotoR with DNR Housing and Sampling Tubes.

1) Where allowed by code, addressable relay modules shall be utilized for code required HVAC unit shut down in lieu of duct mounted smoke detectors.
2) Where allowed by code, addressable relay modules in conjunction with line-voltage isolation relays shall be utilized to control Fire/Smoke Damper power circuits, in lieu of duct mounted smoke detectors.

H. Notification Appliance Circuit (NAC) Devices

1. NAC devices shall be the product of System Sensor. All devices shall be listed for compatibility with the IFP-2000 FACP.

a) Wall mount multi-candela horn/strobe shall be System Sensor P2R, two-wire, red in color.
b) Ceiling mount multi-candela horn/strobe shall be System Sensor PC2W, two-wire, white in color.
c) Wall mounted multi-candela strobe shall be System Sensor SR, red in color.
d) Ceiling mount multi-candela strobe shall be System Sensor SCW, white in color.
e) Exterior weatherproof horn shall be System Sensor HRK, red in color.
f) Wall mount multi-candela speaker/strobe shall be System Sensor SPSR, four-wire, red in color. (For use in voice evacuation applications only)
g) Ceiling mount multi-candela speaker/strobe shall be System Sensor SPSCW, four-wire, white in color. (For use in voice evacuation applications only)
h) Exterior weatherproof speaker shall be System Sensor SPRK-R, red in color. (For use in voice evacuation applications only)

I. Line-Voltage Isolation Relay

1. Line-Voltage Isolation Relay shall be System Sensor PR-1, Air Products PAM-1, MR101C or RIC-1.

a) All relays shall be California State Fire Marshal (CSFM) listed.

J. System Wire/Cable

1. All Fire Alarm System Wire and Cable shall be installed in conduit, unless noted otherwise.

a) Interior

1) SLC cable shall be #16AWG, 2-conductor, unshielded, FPL, red jacket by Falcon Fine Wire #450216R, or equal.
(a) SLC cable shall be California State Fire Marshal (CSFM) listed.
2) NAC Wire shall be #12 AWG THHN/THWN, stranded color red and black.
3) S-bus cable shall be #16AWG, 4-conductor, unshielded, FPL, red or black jacket by Falcon Fine Wire #450416R, or equal.
(a) S-Bus cable shall be California State Fire Marshal (CSFM) listed.
4) Speaker cable shall be #18AWG, 2-conductor, shielded, FPL, red jacket by Falcon Fine Wire #460218R, or equal.
(a) Speaker cable shall be California State Fire Marshal (CSFM) listed.
5) Network Fiber Optic Cable shall be 6-strand 62.5/125 micron multimode Indoor/Outdoor OCC DX006DWLS9KR, or equal, with ST connectors.

b) Exterior

1) SLC cable shall be #16AWG, 2-conductor, unshielded, FPL, water-blocked, black jacket by Falcon Fine Wire #400216H2O, or equal.
(a) SLC cable shall be California State Fire Marshal (CSFM) listed.
2) NAC Wire shall be #12 AWG THHN/THWN, stranded color red and black.
3) S-bus cable shall be #16AWG, 4-conductor, unshielded, FPL, water-blocked, black jacket by Falcon Fine Wire #400416H2O, or equal.
(a) S-Bus cable shall be California State Fire Marshal (CSFM) listed.
4) Speaker cable shall be #18AWG, 2-conductor, shielded, FPL, water-blocked, black jacket by Falcon Fine Wire #410218H2O, or equal.
(a) Speaker cable shall be California State Fire Marshal (CSFM) listed.

5) V-Bus cable shall be #18AWG, 2-conductor, shielded, FPL, water-blocked, black jacket by Falcon Fine Wire #410218H2O, or equal.
   (a) Speaker cable shall be California State Fire Marshal (CSFM) listed.
6) Network Fiber Optic Cable shall be 6-strand 62.5/125 micron multimode Indoor/Outdoor OCC #DX006DWLS9KR, or equal, with ST connectors.

PART 3 - EXECUTION

3.1 DIVISION OF WORK

A. While all work included under this specification is the complete responsibility of the Electrical Contractor, the division of actual work listed following shall occur.

1. All conduits with pull cords, all electrical pull boxes, grounding rods, all outlet boxes, terminal cabinets, backboards, etc., which form part of the rough-in work shall be provided and installed completely by the Electrical Contractor. Coordinate as necessary for proper installation.

    a) Equipment specific boxes provided by the system manufacturer shall be provided by System Supplier/Installer and installed by the Electrical Contractor.

2. The balance of the system, including installation of initiating devices, notification appliances and equipment, making all connections, etc., shall be performed by the System Supplier/Installer.
3. All 120VAC power conductors and conduits associated with power circuits to all fire alarm system equipment locations shall be provided and installed by the Electrical Contractor.
4. An insulated stranded copper ground wire shall be provided from each control unit to the building grounding system, in compliance with CEC Article 250, by the Electrical Contractor.
5. Labeling of pullboxes and terminal cabinets shall be provided and installed by the Electrical Contractor.
6. HVAC Unit Shut-down

    a) Conduit for code required HVAC unit shut-down shall be provided and installed by the Electrical Contractor.
    b) Conductors for code required HVAC unit shut-down shall be provided, installed and terminated by the Mechanical Contractor.
    c) Addressable Relay Modules for code required HVAC unit shut-down shall be provided and installed by the Fire Alarm System Supplier/Installer.

3.2 INSTALLATION

A. All work shall be completed in strict accordance with all applicable codes and ordinances, by a Silent Knight Select Farenhyt Engineered Systems Distributor.

B. Cable/Wire

1. All cable/wire for the system specified herein shall be new, unless otherwise noted on plans.
2. System cable/wire and equipment installation shall be in accordance with good engineering practices as established by the California Electrical Code (CEC). Wiring shall meet all applicable electrical codes. All cable/wire shall test free from all grounds and shorts.

    a) All cable/wire shall be continuous between terminals with no splices.

3. All cable/wire shall be labeled at all points of termination. All labeling shall be based on the room numbers as provided by the District/Owner or his representative.
4. Underground cables

    a) Any cable/wire pulled through manholes or pullboxes located below grade, shall be continuous between terminals with no splices underground. The cable/wire shall be intact with no cuts in the protective outer jacket.
    b) All cable/wire in underground vaults/boxes shall be neatly dressed with service loops attached to the sides of the vault/box. Cable/wire shall not come in contact with the ground.

3.3 SYSTEM START-UP

A. All start-up programming and system commissioning shall be performed by a manufacturer's trained and certified technician currently employed by the System Supplier/Installer.

3.4 SYSTEM VERIFICATION

A. Subsequent to system start-up the system installer shall perform a 100% system pre-test to verify that the following features are functioning properly.

1. All notification appliances
2. All initiation devices
3. All control modules
4. All monitor modules
5. Communication link to monitoring service

3.5 ACCEPTANCE TESTING

A. The system installer shall, in the presence of the Inspector of Record (IOR), perform 100% testing as noted in System Verification above.

3.6 IN SERVICE TRAINING

A. The Contractor shall instruct personnel designated by the District/Owner in the proper use, basic care and maintenance of the system beyond the warranty period. Contractor shall provide up to eight hours of in-service training with this system.

3.7 FACTORY TRAINING & CERTIFICATION

A. When requested by Owner, provide Factory Training for a maximum of two District Technicians.

3.8 RECORD DRAWINGS AND CLOSE-OUT DOCUMENTATION

A. System supplier/installer shall periodically update the General Contractor's master set of record drawings kept on site.

B. Contractor shall provide the following at close-out.

1. Three (3) hard copies of manufacturer's maintenance and operation manuals.
2. Three (3) wet signed copies of system warranty.

3.9 WARRANTY

A. The Contractor shall warrant the equipment and/or materials to be new and free from defects in material and workmanship, and will, within three (3) years from the date of final acceptance, repair or replace any equipment and/or materials found to be defective. This warranty shall not apply to any equipment or materials that have been subject to misuse, abuse, negligence or modification by owner or contractors other than the original installer that provided this warranty.

END OF SECTION 28 31 00