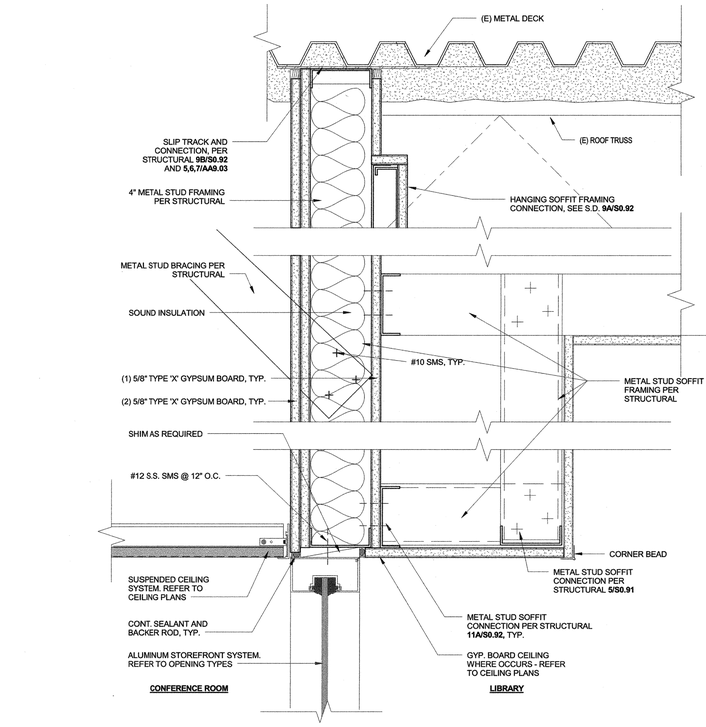
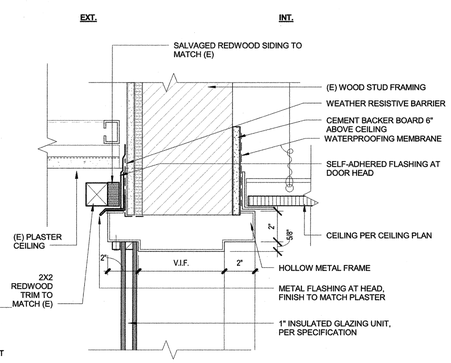
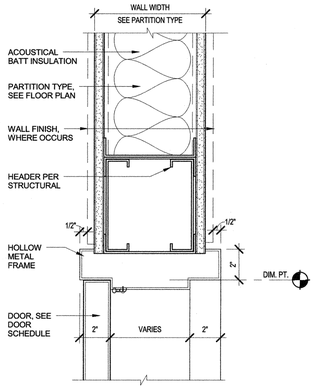


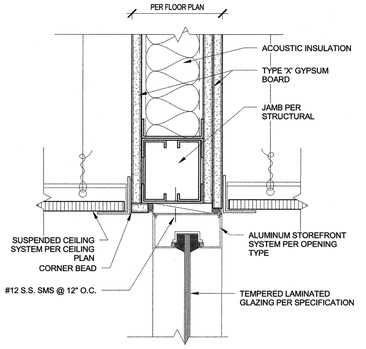
INTERIOR STOREFRONT HEAD | 3" = 1'-0" | 18



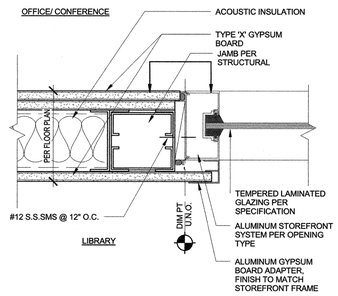
EXT FRP DOOR TRANSOM HEAD | 3" = 1'-0" | 13



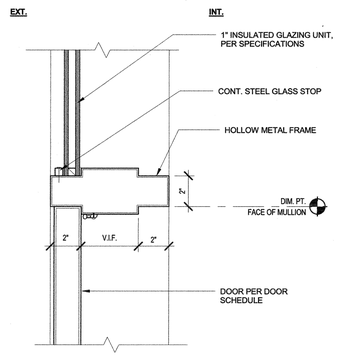
INT. DOOR HEADER (JAMB SIM.) | 3" = 1'-0" | 09



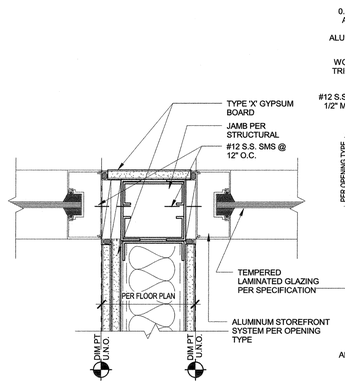
INT. STOREFRONT HEAD | 3" = 1'-0" | 05



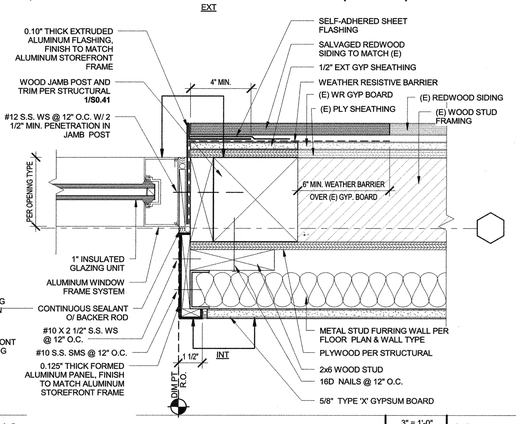
INT. STOREFRONT JAMB | 3" = 1'-0" | 01



EXT. FRP DOOR HEAD AT TRANSOM | 3" = 1'-0" | 14



INT. STOREFRONTJAMB | 3" = 1'-0" | 10.



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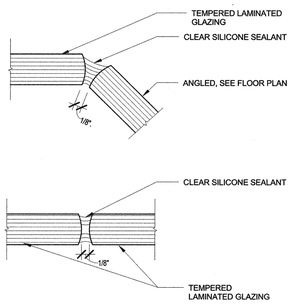
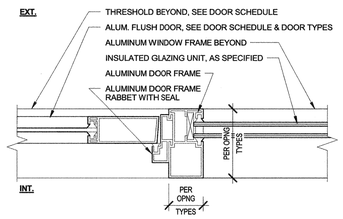
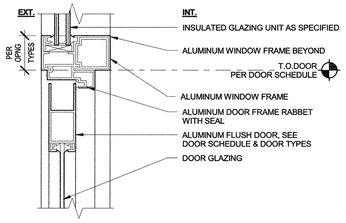


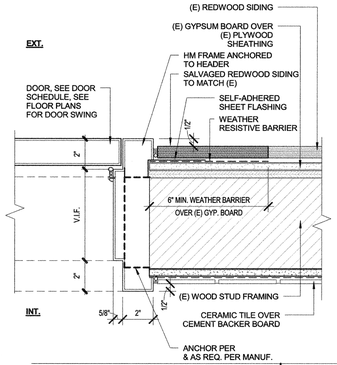
INT. GLAZING FIELD SEAM | 12" = 1'-0" | 02



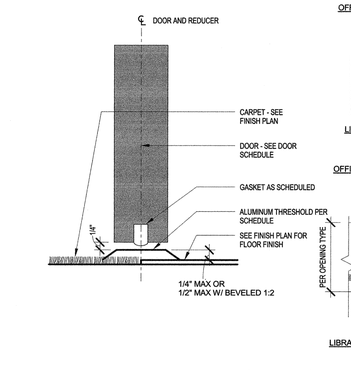
ALUM DOOR JAMB AT SIDELIGHT | 3" = 1'-0" | 23



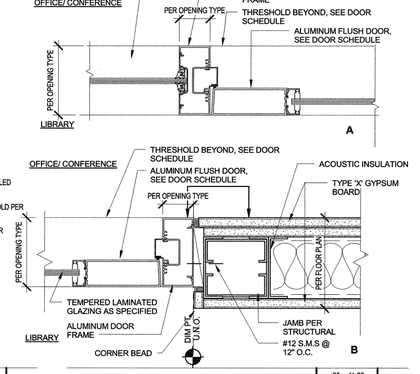
ALUM DOOR HEAD AT TRANSOM | 3" = 1'-0" | 19



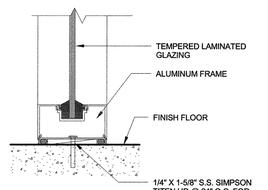
EXT FRP DOOR JAM | 3" = 1'-0" | 15



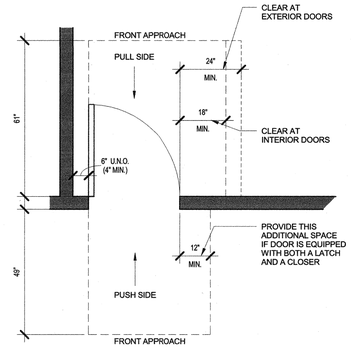
INT. DOOR SILL | 6" = 1'-0" | 11



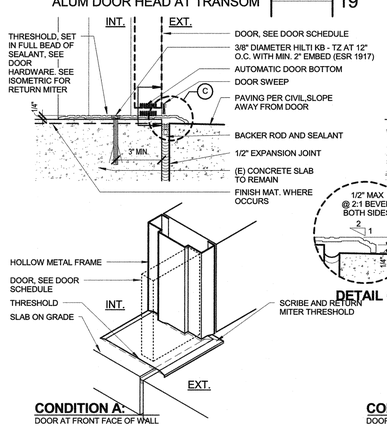
INT. GLASS DOOR JAMB | 3" = 1'-0" | 07



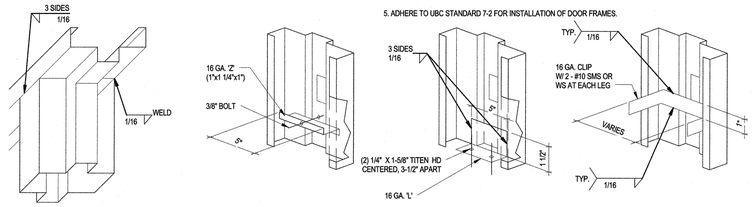
INT. WINDOW SILL | 3" = 1'-0" | 03



TYP. CLEARANCE AT ACCS. DOOR | 1/2" = 1'-0" | 24



FRP DOOR THRESHOLD (ALUM. DOOR SIM.) | 3" = 1'-0" | 16



NOTE:
FOR ADDITIONAL INSTALLATION INFORMATION, SEE REF. SPECIFICATIONS

MIN. (3) #10 ANCHORS PER JAMB, MIN. (2) #10 ANCHORS AT HEAD, MAX. ANCHORS SPACING 24" O.C..

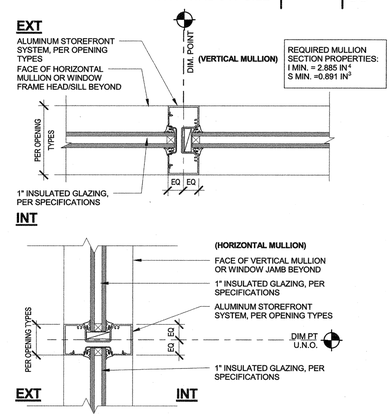
PUNCH AND DIMPLE FOR 3/8" BOLTS AND PROVIDE 'Z' SPACERS AT EACH BOLTS, SHIELDS, SHIMS, ETC.

MIN. (3) CLIPS PER JAMB, MIN. (2) CLIPS AT HEAD, MAX. CLIP SPACING 24" O.C..

HM DOOR FRAME DETAILS & NOTES | 12" = 1'-0" | 08

NOTES:

1. REFER TO PROFILES.
2. ALL HOLLOW METAL FRAME/JAMBS SHALL BE CUT FOR STANDARD UNIT LOCK STRIKES 3/4" HIGH.
3. FRAME DIMENSIONS ARE FROM FINISH PAVING. FRAME DIMENSIONS MAY VARY DUE TO FINISH MATERIALS.
4. VERIFY ALL DOOR AND FRAME OPENING SIZES AND WALL AND DOOR FRAME WIDTHS ON SITE.
5. ADHERE TO UBC STANDARD 7-2 FOR INSTALLATION OF DOOR FRAMES.



EXT. ALUM. MULLION | 3" = 1'-0" | 04

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LICENSED ARCHITECT
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C-31247
7-31-2017
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STATE OF CALIFORNIA

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EAST SIDE Union High School District

OAK GROVE HIGH SCHOOL - LIBRARY REMODEL & SITE IMPROVEMENTS

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Developed for
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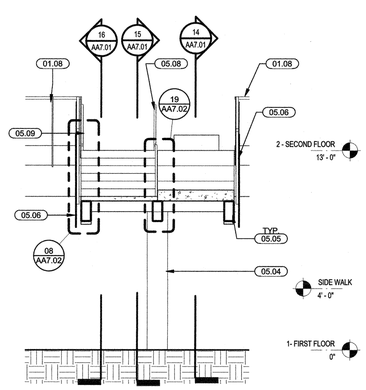
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/5/2016
50% CD ESTIMATE	6/6/2016
90% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
95% BID SET	11/22/2017
DSA APPROVAL	02/02/2017

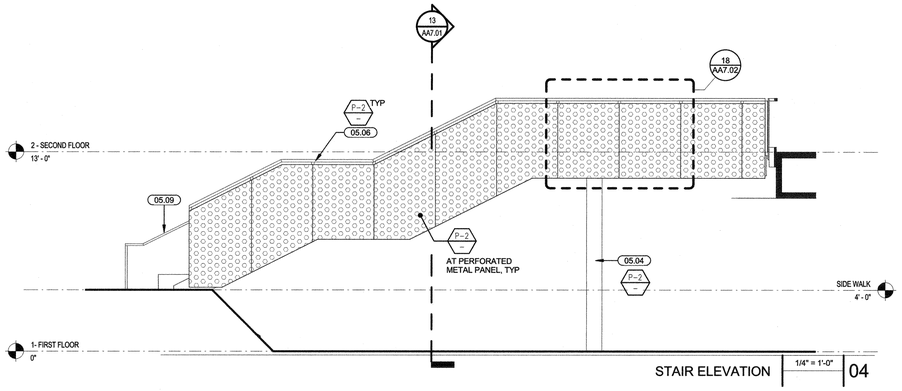
Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

DOOR & WINDOW DETAILS

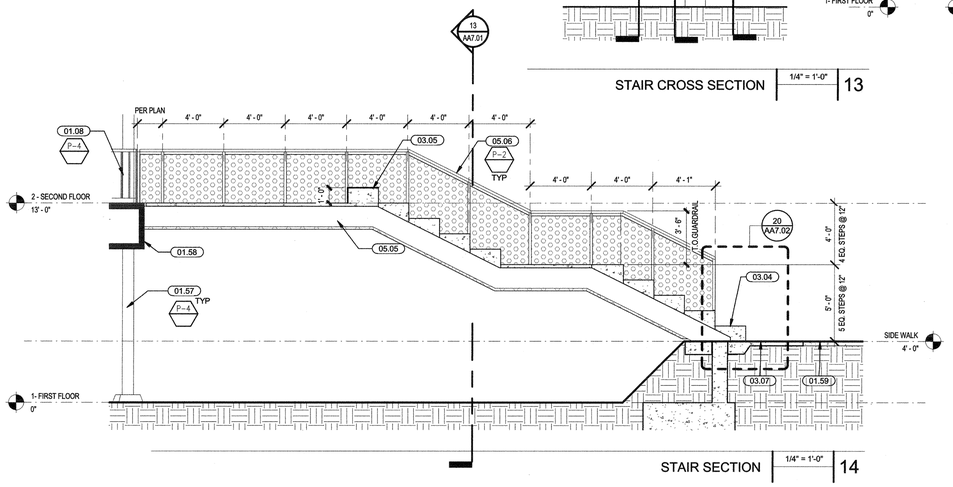
AA6.02



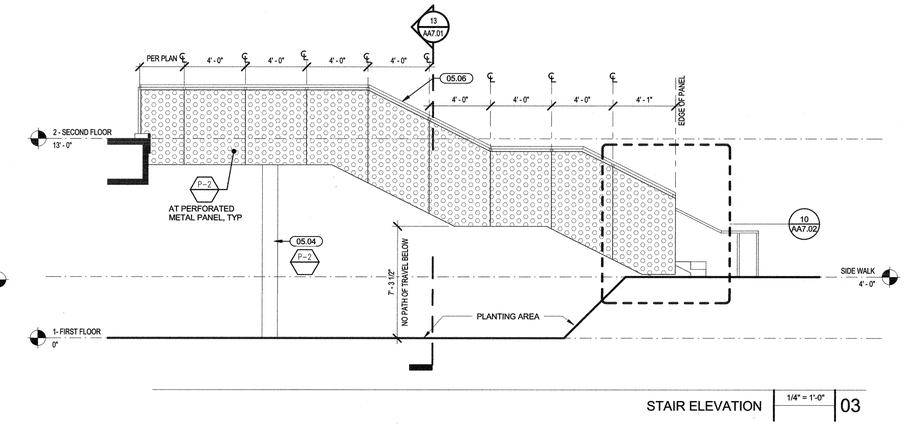
STAIR CROSS SECTION 1/4" = 1'-0" 13



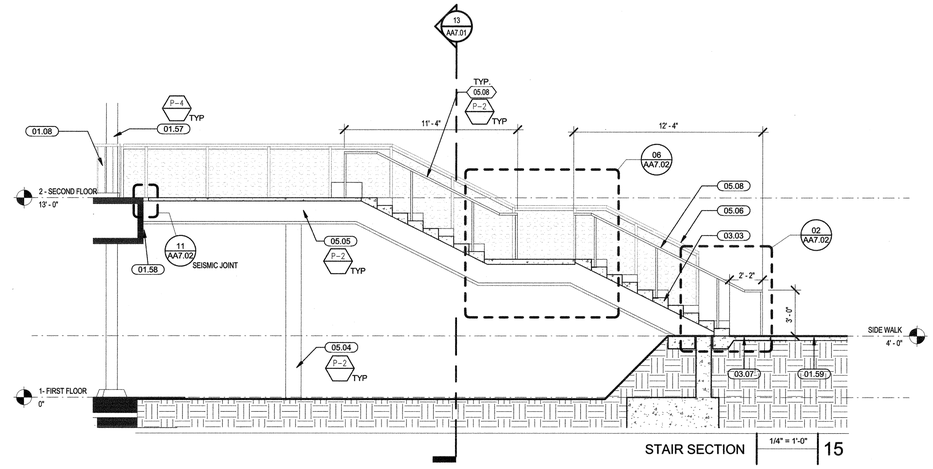
STAIR ELEVATION 1/4" = 1'-0" 04



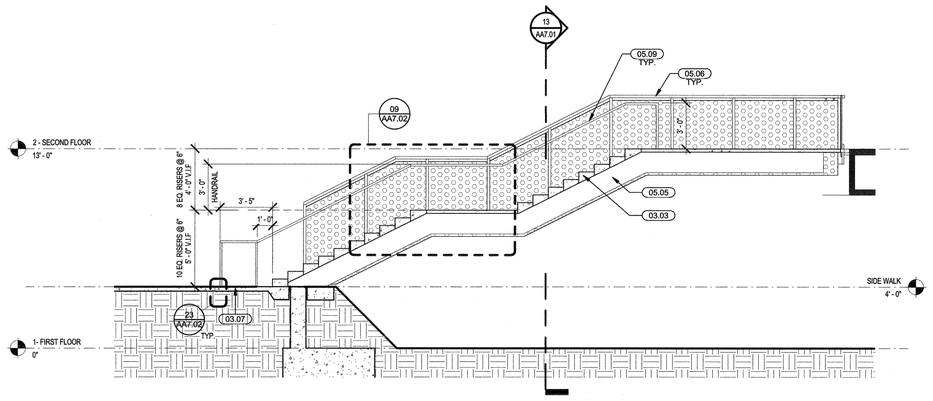
STAIR SECTION 1/4" = 1'-0" 14



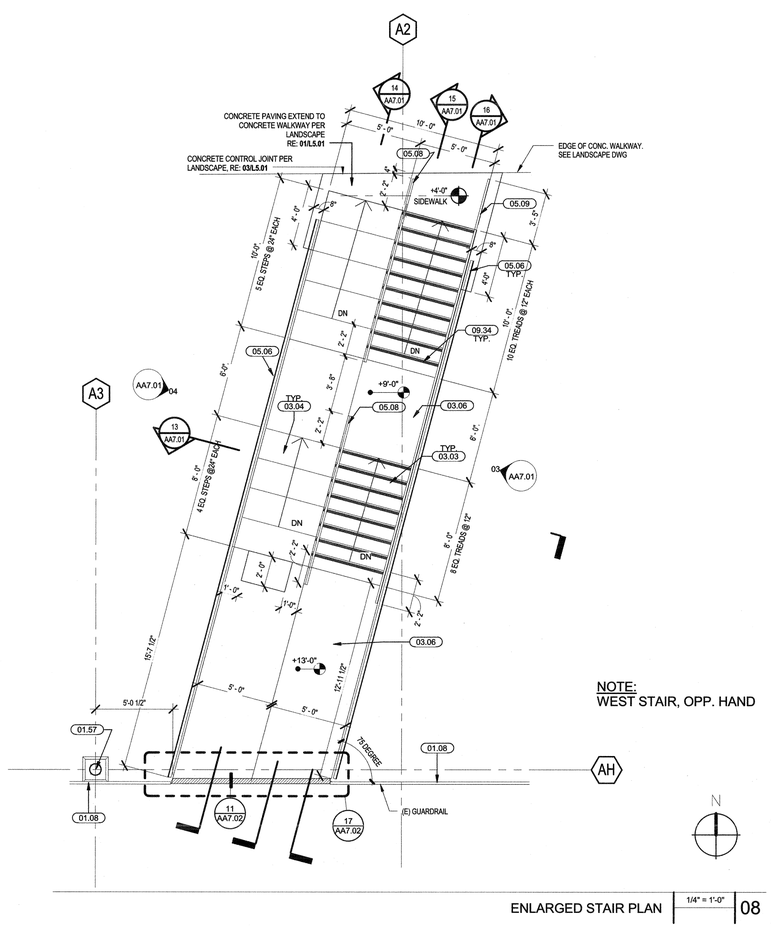
STAIR ELEVATION 1/4" = 1'-0" 03



STAIR SECTION 1/4" = 1'-0" 15



STAIR SECTION 1/4" = 1'-0" 16



ENLARGED STAIR PLAN 1/4" = 1'-0" 08

KEYNOTES

01.08	(E) STEEL GUARDRAIL TO REMAIN; REPAINT
01.57	(E) COLUMN TO REMAIN; REPAINT COLUMN AND BASE
01.58	(E) EXIT CORRIDOR TO REMAIN
01.59	(E) CONCRETE SIDE WALK TO REMAIN
03.03	PRECAST CONC. STAIR TREAD & RISER SYSTEM O/ STRUCTURAL TUBE STEEL STRINGER, SEE STRUCTURAL DWGS.
03.04	PRECAST CONC. STEPS O/ STRUCTURAL TUBE STEEL STRINGER.SEE STRUCTURAL DWGS.
03.05	PRECAST CONC. CURB
03.06	PRECAST CONC. LANDING O/ STRUCTURAL TUBE STEEL STRINGER., SEE STRUCTURAL DWGS.
03.07	EXTERIOR CONCRETE PAVING, RE: CIVIL & LANDSCAPE DRAWINGS
05.04	STRUCTURAL STEEL COLUMN, AESS, W/ HIGH PERFORMANCE COATING . SEE STRUCTURAL DWGS.
05.05	STRUCTURAL TUBE STEEL STAIR STRINGER, AESS, W/ HIGH PERFORMANCE COATING , SEE STRUCTURAL DWGS.
05.06	STEEL GUARDRAIL W/ PERFORATED METAL PANEL, ZINC RICH PRIMED W/ HIGH PERFORMANCE COATING. PERFORATED METAL PANEL TO BE ZINC PRIMED AND POWDER COATING
05.08	STEEL HANDRAIL, 1-1/2" O. D., ZINC RICH PRIMED W/ HIGH PERFORMANCE COATING, MOUNTED TO CONC. STAIR.
05.09	STAINLESS STEEL ILLUMINATED HANDRAIL SYSTEM MOUNTED TO GUARDRAIL POST
09.34	CONTRACTING WARNING STRIPS AT ALL TREADS

STAIR GENERAL NOTES

1. STAIR TREADS SHALL BE NO LESS THAN 11" DEEP, MEASURED FROM RISER TO RISER; BE SLIP RESISTANT; HAVE SMOOTH, ROUNDED OR CHAMFERED EXPOSED NOSING EDGES; AND HAVE NO ABRUPT EDGES AT NOSING. RE:1/A7.02
2. NOSING SHALL NOT PROJECT MORE THAN 1-1/4" PAST THE FACE OF THE RISER ABOVE
3. STAIR RISERS SHALL BE NO LESS THAN 4" HIGH AND NO GREATER THAN 7" HIGH MEASURED FROM TREAD TO TREAD.
4. OPEN RISERS ARE NOT PERMITTED
5. ALL EXPOSED TUBE STEEL STAIR STRINGERS AND COLUMNS TO BE AESS, APPLY HIGH PERFORMANCE COATING PER SPECIFICATION
6. ALL GUARDRAIL/HANDRAIL SYSTEM AND SUPPORTING MEMBERS, EXCEPT STAINLESS STEEL ILLUMINATED HANDRAIL SYSTEM, TO BE ZINC RICH PRIMED, APPLY HIGH PERFORMANCE COATING PER SPECIFICATION; PERFORATED GUARDRAIL PANEL TO BE ZINC RICH PRIMED AND POWDER COATED PER SPECIFICATION
7. ALL EXPOSED STEEL, EXCEPT NOTED ABOVE, TO BE GALVANIZED, APPLY HIGH PERFORMANCE COATING PER SPECIFICATION
8. GRIND ALL WELDS SMOOTH
9. ALL INSTALLATIONS SHALL BE STRAIGHT AND TRUE, NO VARIATIONS ALONG REVEALS WILL BE ALLOWED
10. ALL RAILINGS, STRINGERS, PANS AND MISCELLANEOUS METALS SHALL BE FREE OF BURRS
11. GUARDRAIL SYSTEMS SHALL BE PROVIDED BY A SINGLE MANUFACTURER TO ENSURE COMPATIBILITY OF SYSTEMS AND FINISH

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EAST SIDE Union High School District

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Developed for
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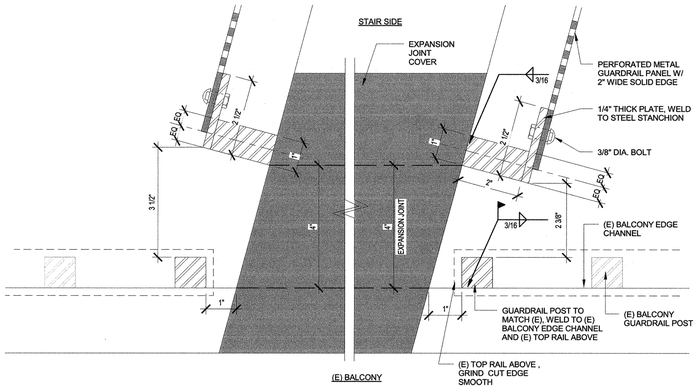
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/16/2016
50% CD ESTIMATE	6/6/2016
50% CD ESTIMATE	7/22/2016
95% CD ESTIMATE	8/26/2016
DSA SUBMITTAL	01/25/2017
BID SET	02/02/2017
DSA APPROVAL	

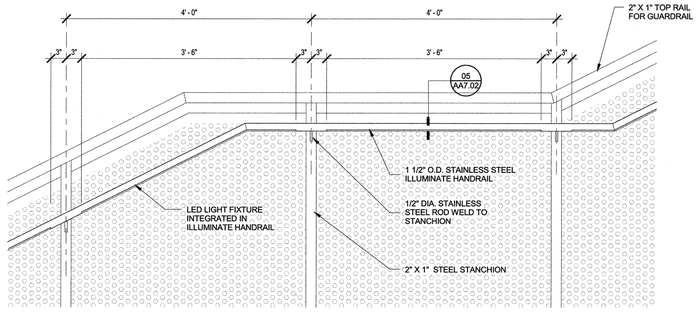
Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

ENLARGED STAIR

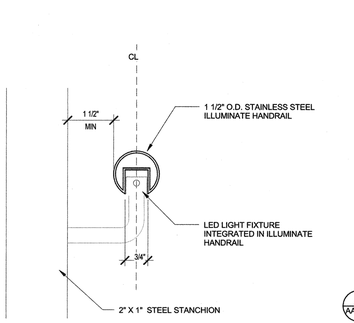
AA7.01



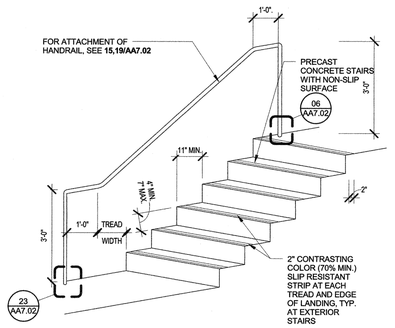
GUARDRAIL AT (E) BALCONY | 6" = 1'-0" | 17



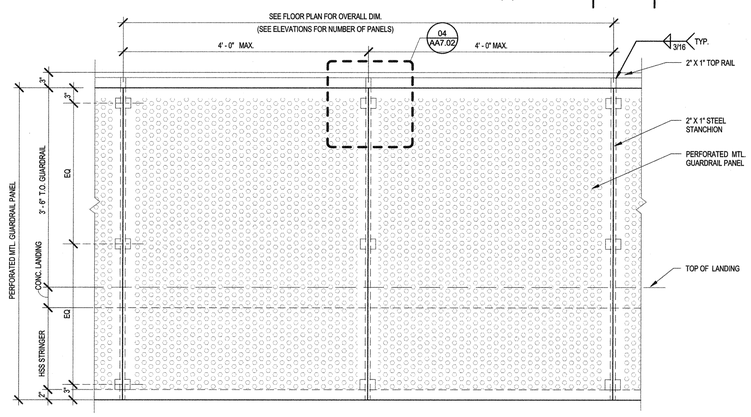
HANDRAIL LIGHTING | 1" = 1'-0" | 09



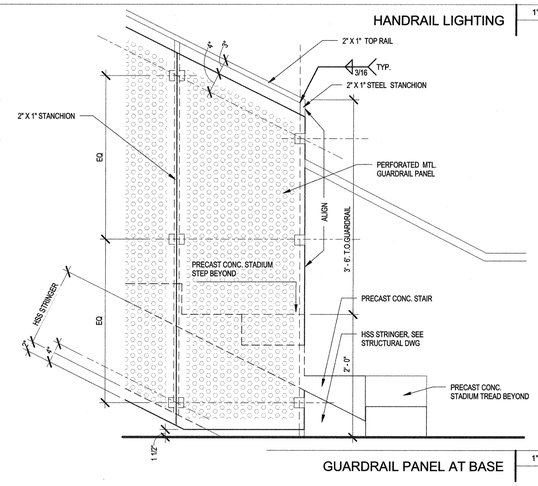
HANDRAIL@ LIGHT FIXTURE | 6" = 1'-0" | 05



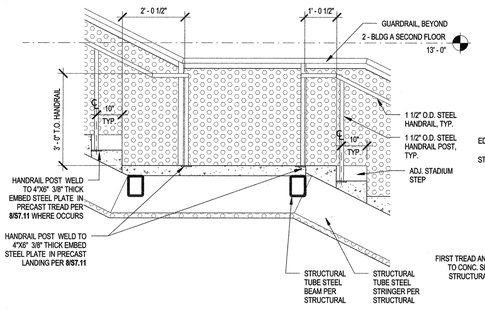
TYPICAL STAIR | 1/2" = 1'-0" | 01



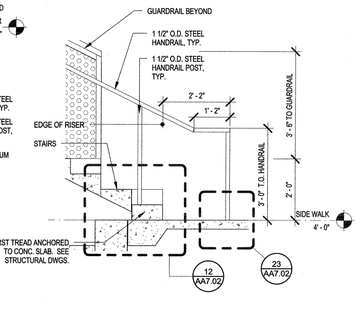
GUARDRAIL PANEL AT LANDING | 1" = 1'-0" | 18



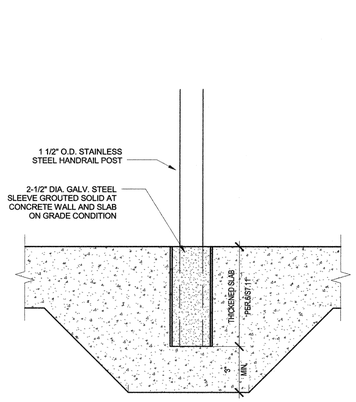
GUARDRAIL PANEL AT BASE | 1" = 1'-0" | 10



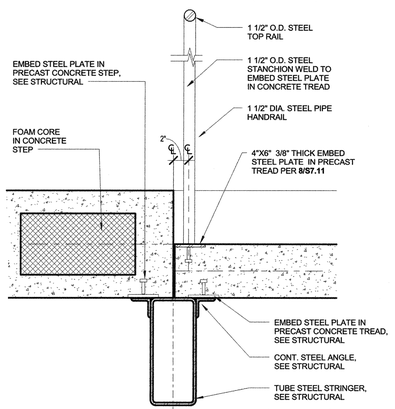
HANDRAIL @ INTERMEDIATE LANDING | 1/2" = 1'-0" | 06



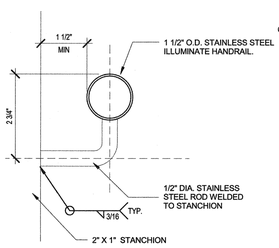
HANDRAIL @ BOTTOM LANDING | 1/2" = 1'-0" | 02



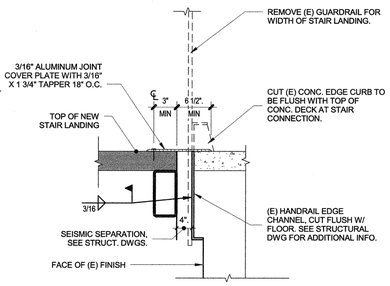
HANRAIL POST AT GRADE | 3" = 1'-0" | 23



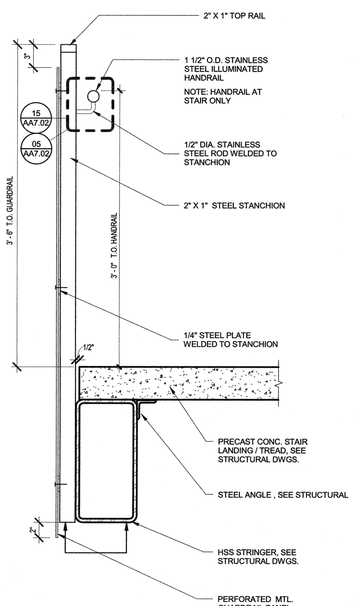
HANDRAIL AT STEPS | 1 1/2" = 1'-0" | 19



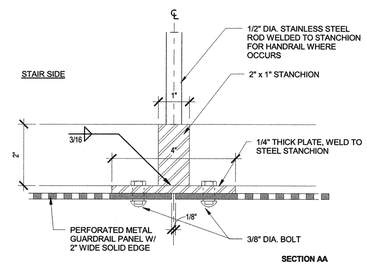
HANDRAIL ATTACHMENT | 6" = 1'-0" | 15

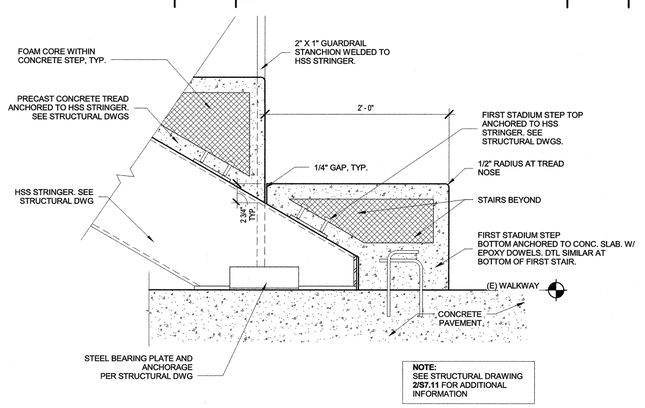


SEISMIC JOINT | 1 1/2" = 1'-0" | 11

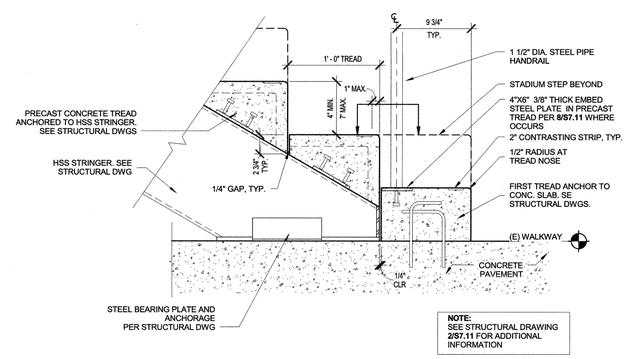


GUARDRAIL @ STAIRS | 1 1/2" = 1'-0" | 08

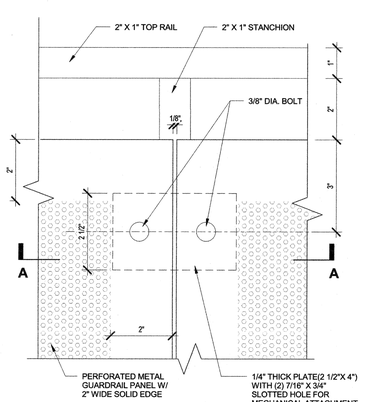




BOTTOM OF LANDING AT STADIUM STYLE STEP | 1 1/2" = 1'-0" | 20



BOTTOM LANDING AT STAIRS | 1 1/2" = 1'-0" | 12



GUARDRAIL PANEL CONNECTION | 6" = 1'-0" | 04

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LICENSED ARCHITECT
JOHN WILLIAM FOSTER
No. 32467
12-31-2017
REN.
STATE OF CALIFORNIA

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APPL. #: 01-116137
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DATE FEB 07 2017
FILE NUMBER: 43-H10

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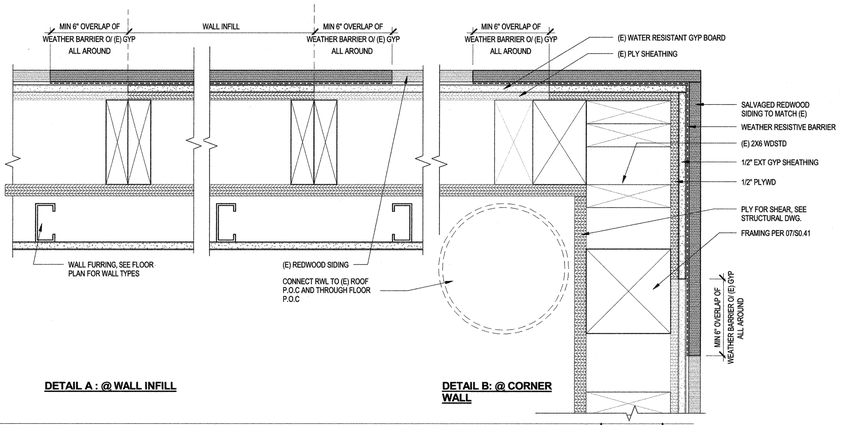
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/18/2016
50% CD ESTIMATE	6/6/2016
95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/25/2017
DSA APPROVAL	02/22/2017

Job. No.	1524810
Date	02/22/2017
Checked by	LPA
Scale	As indicated

STAIR DETAILS

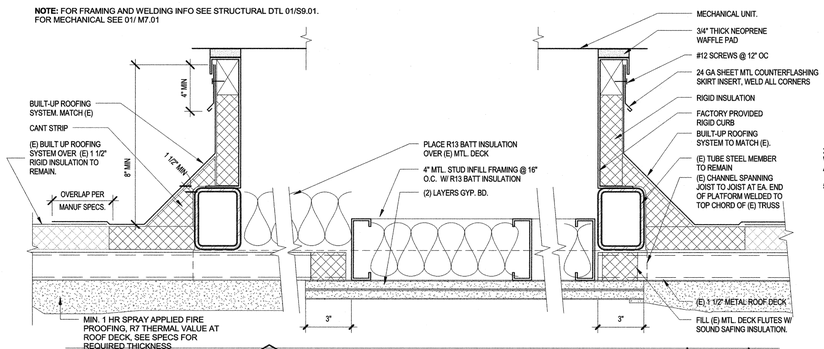
AA7.02



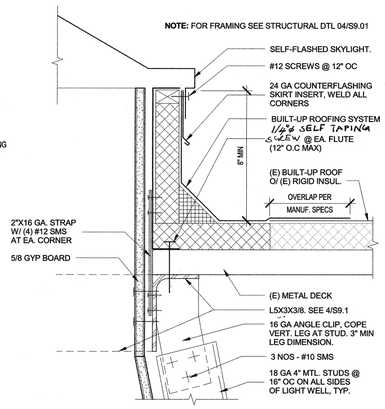
DETAIL A : @ WALL INFILL

DETAIL B: @ CORNER WALL

EXT FINISH PATCHING DETAIL | 3" = 1'-0" | 17



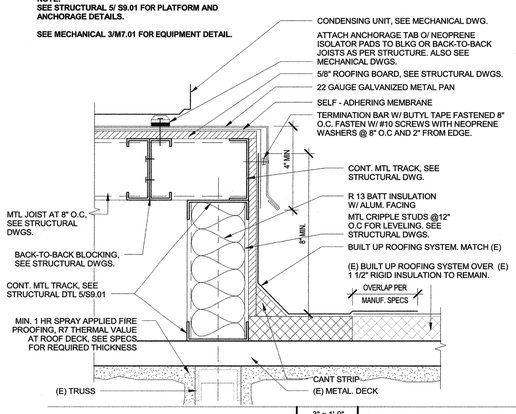
CURB @ MECH. EQUIPMENT | 3" = 1'-0" | 05



CURB @ SKYLIGHT | 3" = 1'-0" | 01

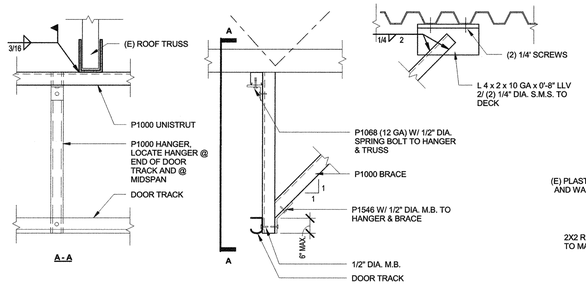
NOTE:
SEE STRUCTURAL 5/ S9.01 FOR PLATFORM AND ANCHORAGE DETAILS.

SEE MECHANICAL 3/M7.01 FOR EQUIPMENT DETAIL.

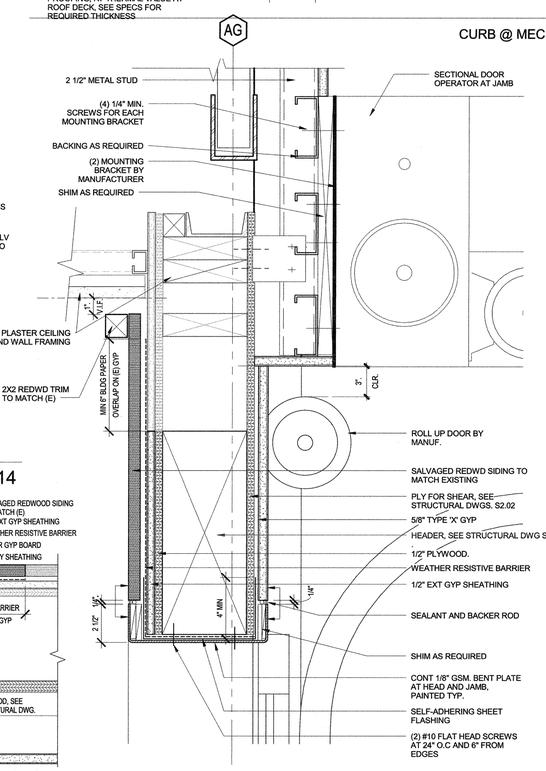


MTL STUD PLATFIRM FOR CU EQUIPMENT | 3" = 1'-0" | 22

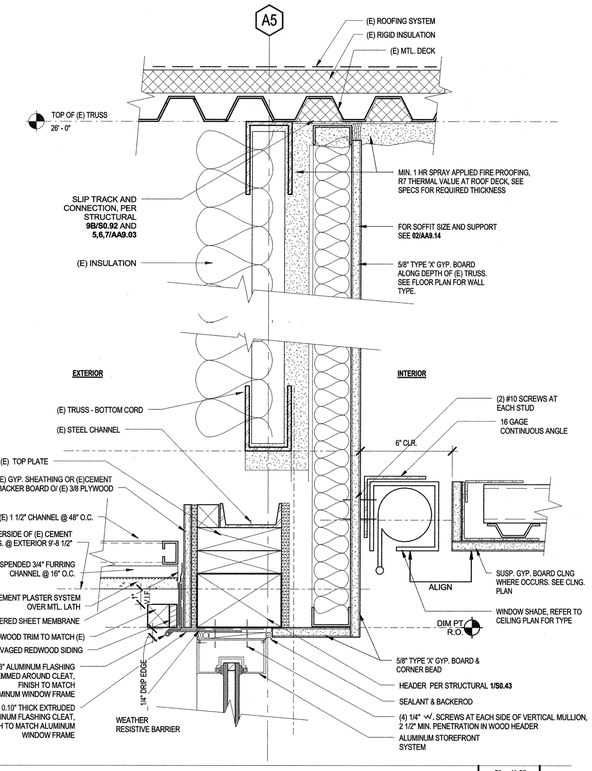
NOTE:
SPRAY APPLIED MIN. 1-HOUR RATED FIRE PROOFING TO (E) ROOF STRUCTURE & UNDERSIDE OF (E) ROOF DECK. ENSURE MIN. THERMAL VALUE AT UNDERSIDE OF (E) ROOF DECK TO BE R-7. SEE SPECS FOR REQUIRED THICKNESS.



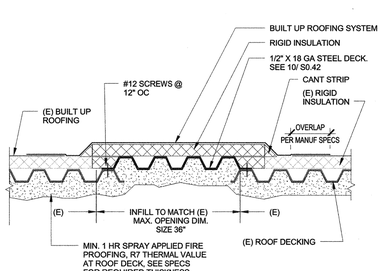
DOOR TRACK SUPPORT | 1 1/2" = 1'-0" | 14



SECTIONAL DOOR HEADER | 3" = 1'-0" | 11



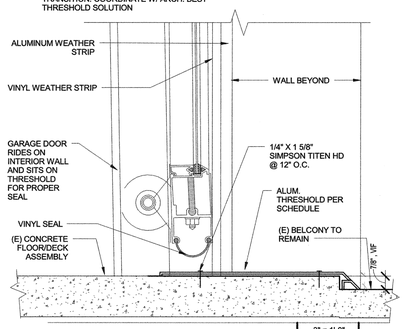
STOREFRONT HEADER DTL. @ EXT. BALCONY | 3" = 1'-0" | 03



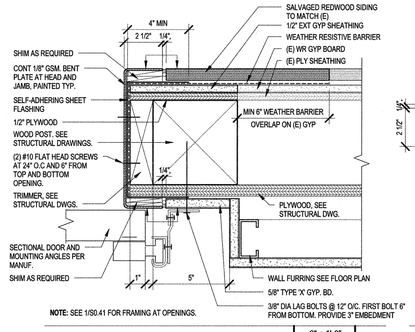
NOTE: SEE STRUCTURAL DWGS. FOR ADDITIONAL INFO.

ROOF OPENING INFILL | 1 1/2" = 1'-0" | 23

NOTE:
VERIFY IN FIELD EXACT CONC. SLAB TRANSITION. COORDINATE W/ ARCH. BEST THRESHOLD SOLUTION



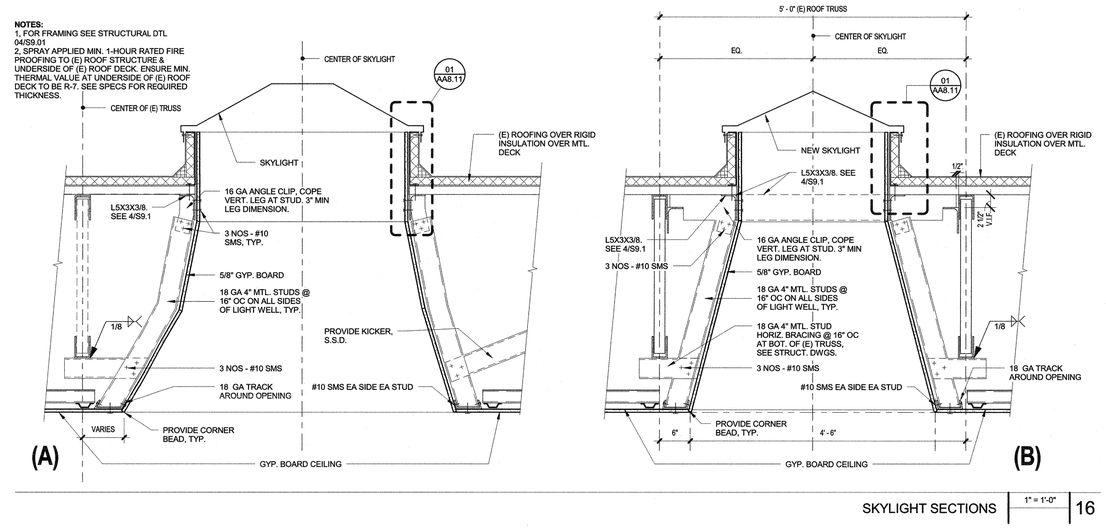
THRESHOLD @ SECTIONAL DOOR | 3" = 1'-0" | 19



NOTE: SEE 1/S0.41 FOR FRAMING AT OPENINGS.

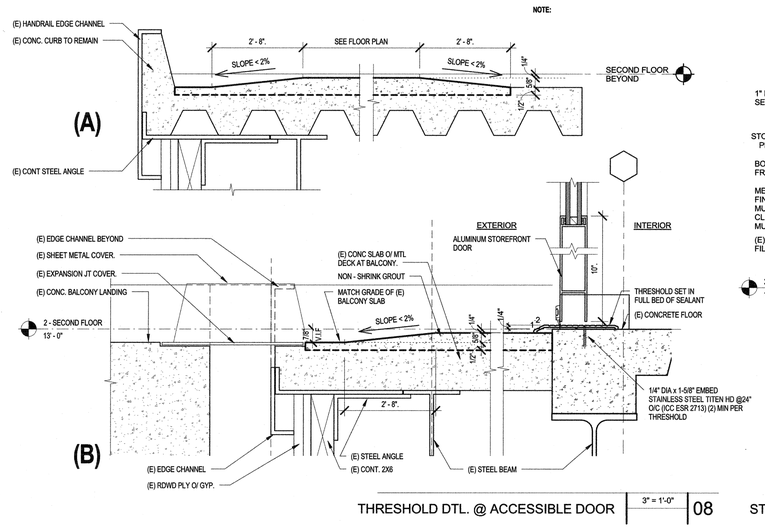
JAMB DETAIL @ SECTIONAL DOOR | 3" = 1'-0" | 15

NOTES:
1, FOR FRAMING SEE STRUCTURAL DTL 04/S9.01
2, SPRAY APPLIED MIN. 1-HOUR RATED FIRE PROOFING TO (E) ROOF STRUCTURE & UNDERSIDE OF (E) ROOF DECK. ENSURE MIN. THERMAL VALUE AT UNDERSIDE OF (E) ROOF DECK TO BE R-7. SEE SPECS FOR REQUIRED THICKNESS.

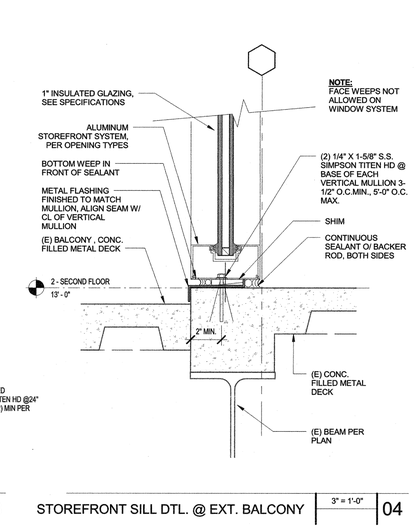


SKYLIGHT SECTIONS | 1" = 1'-0" | 16

NOTE:



THRESHOLD DTL. @ ACCESSIBLE DOOR | 3" = 1'-0" | 08



STOREFRONT SILL DTL. @ EXT. BALCONY | 3" = 1'-0" | 04

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REGISTERED ARCHITECT JOSEPH E. WOLFE C-13861 STATE OF CALIFORNIA

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APPL. #: 01-116137
DATE: FEB 02 2017
FILE NUMBER: 43-H10

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Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/16/2016
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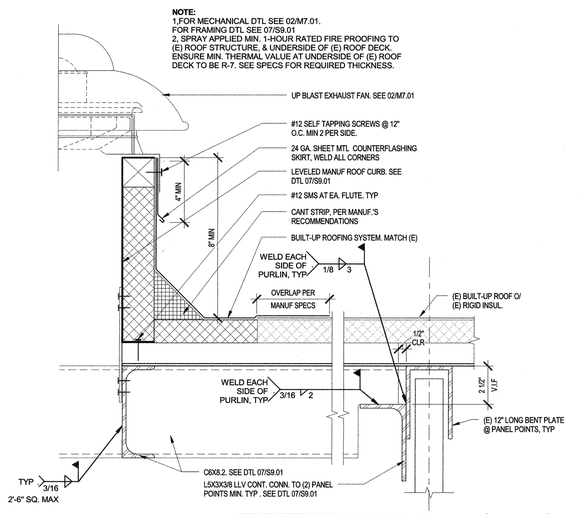
95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/25/2017
DSA APPROVAL	02/02/2017

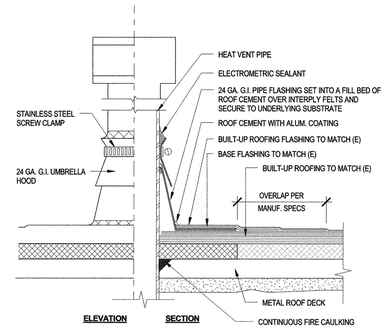
Job. No.	1534810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

EXTERIOR WALL & ENVELOPE DETAILS

AA8.11

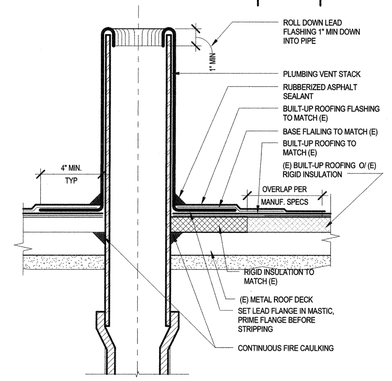


EXHAUST FAN CURB DETAIL | 3" = 1'-0" | 05

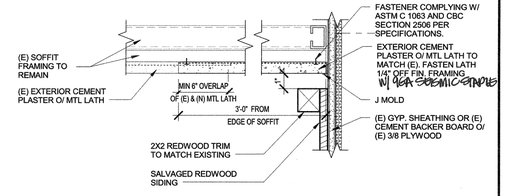


NOTES:
1. SURFACES TO RECEIVE SEAL TAPE SHALL BE THOROUGHLY CLEAN AND DRY
2. ALL SEAMS ARE TO BE LEAD SOLDERED

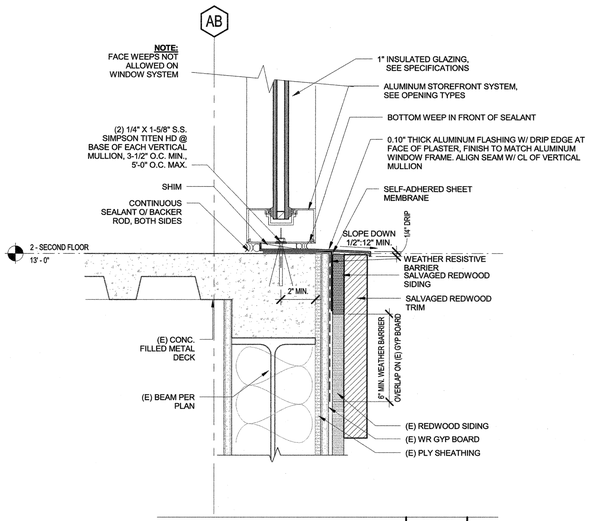
VENT PIPE PENETRATION | 3" = 1'-0" | 01



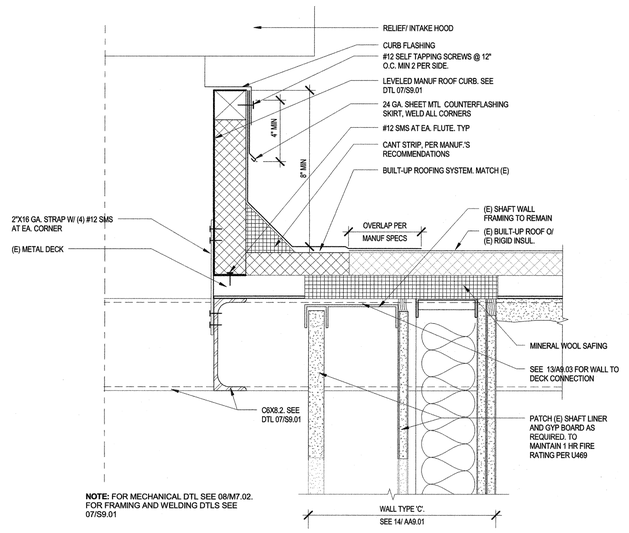
PLUMBING VENT PENETRATION | 3" = 1'-0" | 02



CEMENT PLASTER PATCHING @ SOFFIT | 3" = 1'-0" | 03



EXT. STOREFRONT SILL @ SOUTH WALL | 3" = 1'-0" | 12



NOTE: FOR MECHANICAL DTL SEE 09/M7.02. FOR FRAMING AND WELDING DTLS SEE 07/S9.01

ROOF OPENING OVER (E) SHAFT | 3" = 1'-0" | 04

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DENISE [illegible]
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Revision	Date

Submittal	Date
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95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/25/2017
DSA APPROVAL	02/02/2017

Job. No.	1524010
Date	02/02/2017
Checked by	Checker
Scale	3" = 1'-0"

EXTERIOR DETAILS

AA8.12

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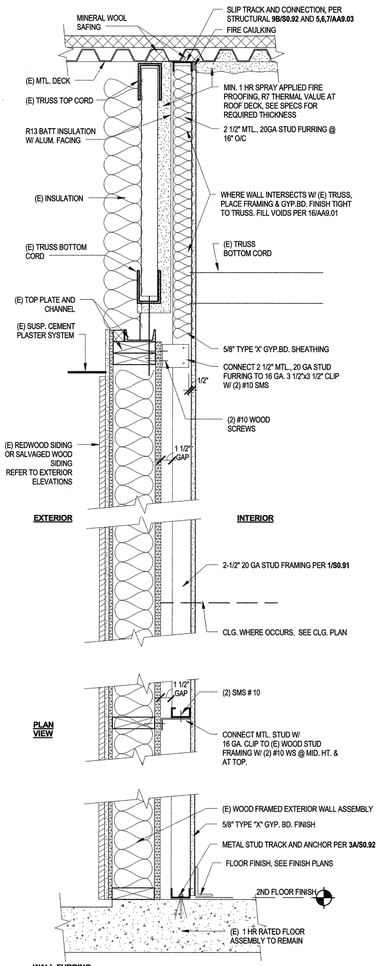
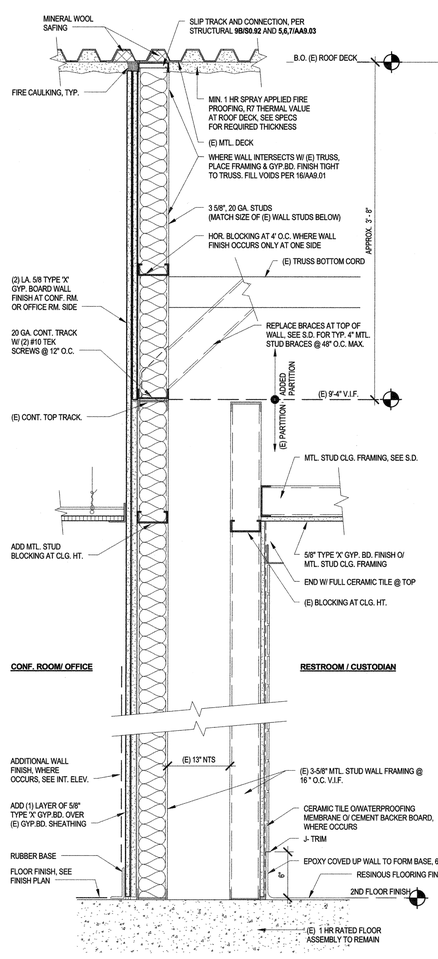


WALL FURRING

E = 2-1/2", 20 GA. METAL STUD WALL FURRING @ 16" O.C. MAX., PLACED & ATTACHED TO (E) WOOD STUD FURRING.

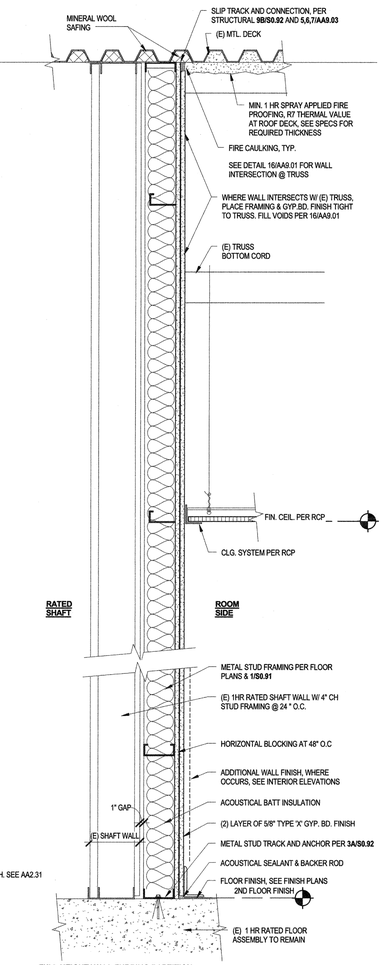
WALL FURRING, TYPE 'E' | 1 1/2" = 1'-0" | 23



WALL SHEATHING / WALL FINISHES APPLICATION

D1 : (E) WALL FRAMING W/ WALL FINISH APPLICATION AS SHOWN.

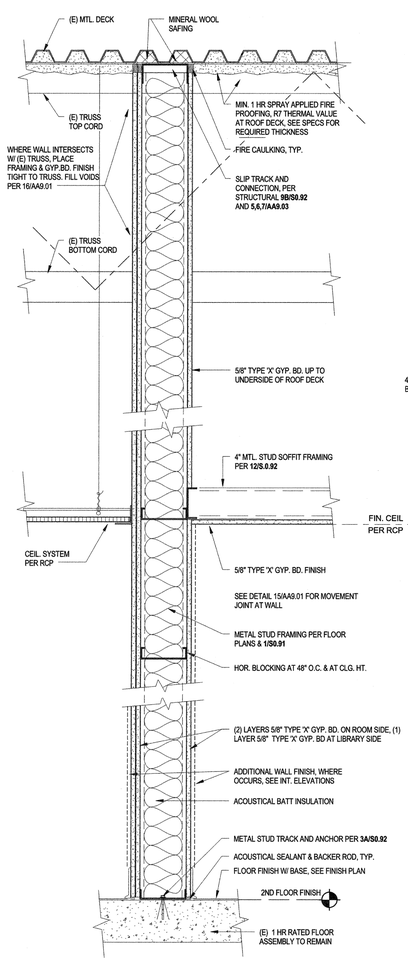
WALL TYPE 'D' | 1 1/2" = 1'-0" | 19



FULL HEIGHT WALL FURRING PARTITION

C1 = 2 1/2" MTL STUD
C2 = 4" MTL STUD FRAMING TO UNDERSIDE OF (E) MTL. DECK

WALL TYPE 'C' | 1 1/2" = 1'-0" | 14



FULL HEIGHT WALL

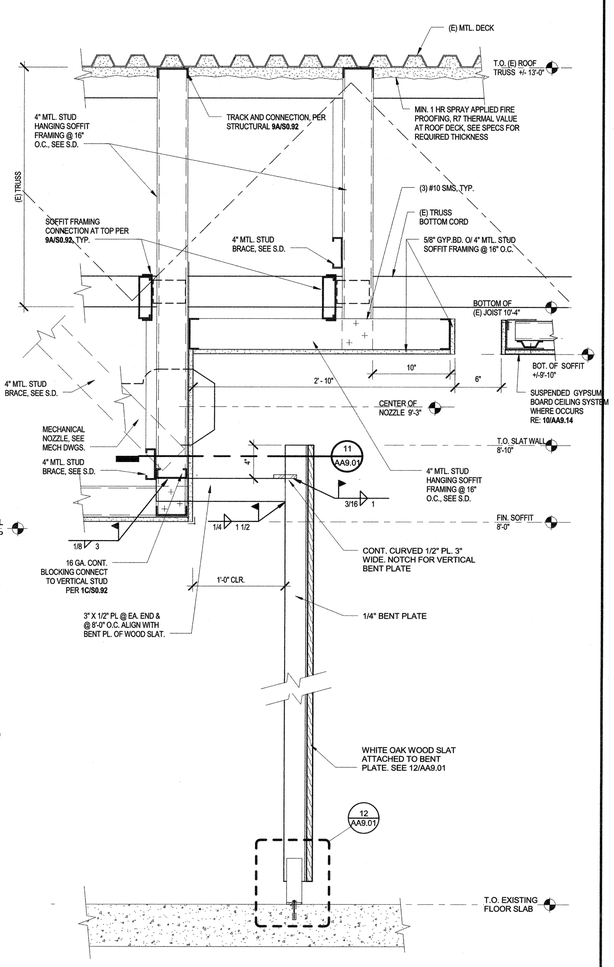
B1 : 4" MTL. STUD FRAMING TO UNDERSIDE OF (E) MTL. DECK. W/ FINISHES AS SHOWN ABOVE.

B2 : 6" MTL. STUD FRAMING TO UNDERSIDE OF (E) MTL. DECK. W/ FINISHES AS SHOWN ABOVE.

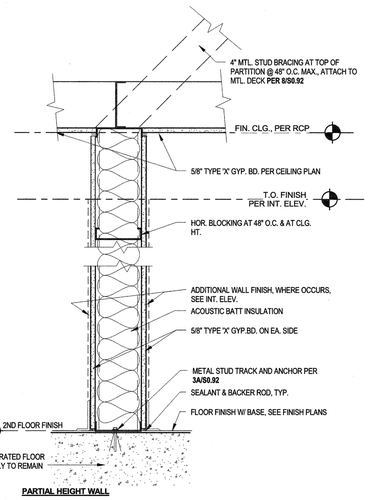
B3 : 8" MTL. STUD FRAMING TO UNDERSIDE OF (E) MTL. DECK. W/ FINISHES AS SHOWN ABOVE.

B4 : 4" MTL. STUD FRAMING TO UNDERSIDE OF (E) MTL. DECK. W/ (1/) LAYER 5/8" GYP.BD. ON EA. SIDE, U.N.O SEE INT. ELEV. FOR ADDITIONAL WALL FINISH INFORMATION.

WALL TYPE 'B' | 1 1/2" = 1'-0" | 07



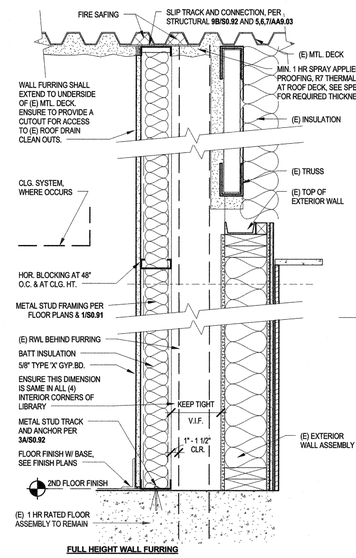
SLAT WALL AT FACE OF SOFFIT | 1 1/2" = 1'-0" | 03



PARTIAL HEIGHT WALL

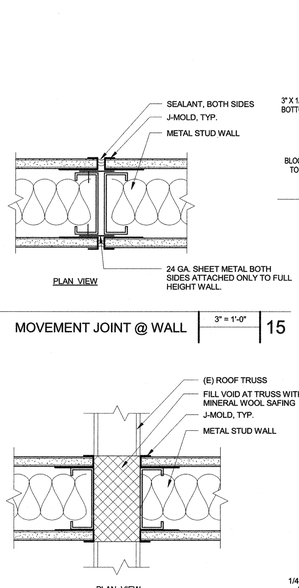
A1: 4" MTL. WALL STUD FRAMING @ 16" O.C.

WALL TYPE 'A' | 1 1/2" = 1'-0" | 24



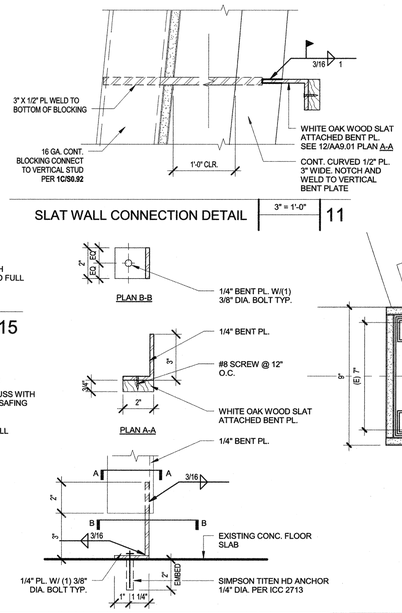
FULL HEIGHT WALL FURRING

WALL TYPE 'F' | 1 1/2" = 1'-0" | 20



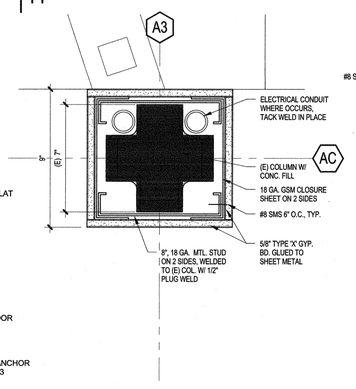
MOVEMENT JOINT @ WALL | 3" = 1'-0" | 15

FULL HT. WALL INTERSECTION @ TRUSS | 3" = 1'-0" | 16

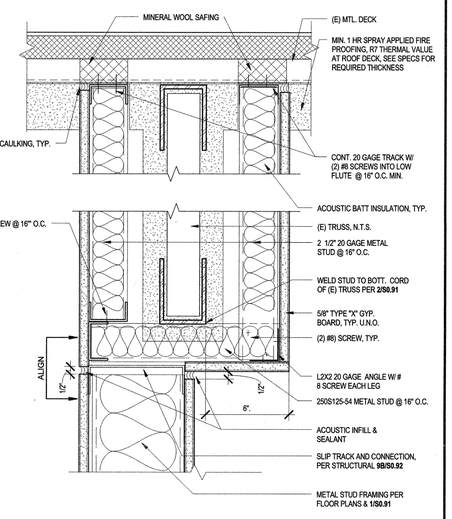


SLAT WALL CONNECTION DETAIL | 3" = 1'-0" | 11

SLAT WALL DETAIL | 3" = 1'-0" | 12



(E) COLUMN FURRING - PLAN VIEW | 3" = 1'-0" | 08



ACOUSTIC WALL AT TRUSS | 3" = 1'-0" | 04

LPA
60 South Market Street, Suite 150
San Jose, California 95113
p. 408.780.7200
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w. lpainc.com
e. lpa@lpainc.com

LICENSED ARCHITECT DENISE C. [illegible] No. C-30017 REN. STATE OF CALIFORNIA

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC: JM FLS: SS WF
DATE: FEB 02 2017
FILE NUMBER: 43-H10

EAST SIDE Union High School District HIGH SCHOOL

OAK GROVE HIGH SCHOOL - LIBRARY
REMODEL & SITE IMPROVEMENTS

285 Blossom Hill Road,
San Jose, CA 95123

Developed for
East Side Union High School District

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Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/16/2016
50% CD ESTIMATE	6/8/2016
50% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/02/2017
DSA APPROVAL	02/02/2017

Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

WALL TYPES

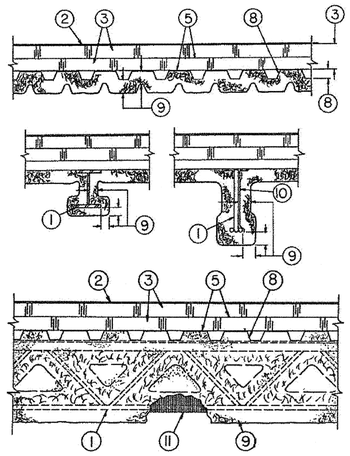
AA9.01

Design No. P819
August 07, 2003

Restrained Assembly Rating — 1, 1-1/2 or 2 Hr. (see items 3, 9 and 13)

Unrestrained Assembly Rating — 1, 1-1/2 or 2 Hr. (see items 3, 9 and 13)

Unrestrained Beam Rating — 1, 1-1/2 or 2 Hr. (see items 9 and 13)



1. **Beam —** W6x16 min size, or Steel Joist min size (See Item 9).

2. **Roof Covering —** Consisting of hot mopped or cold application bituminous materials compatible with the insulation(s) described herein which provide Class A, B or C coverings. See Roofing Materials and Systems Directory-Roof Covering Materials (TEST).

2A. **In lieu of Item 2, roof covering consisting of single-ply Roofing Membrane* —** that is either ballasted, adhered or mechanically attached as permitted under the respective manufacturer's Classification. See Fire Resistance Directory-Roofing Membranes (CHCI).

2B. **Metal Roof Deck Panels** — (Not Shown) — In addition to or in lieu of Items 2 or 2A, the roof covering may consist of a mechanically fastened metal roof deck panel assembly. See Fire Resistance Directory — **Metal Roof Deck Panels** (CETW).

3. **Roof Insulation-Foamed Plastic* —** 36 by 48 in. (min size) polyisocyanurate foamed plastic insulation boards applied in one or more layers. See Item 9 for min thicknesses with or without the use of gypsum wallboard (Item 13). No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows. When applied in more than one layer, each layer to be offset in both directions from layer below a min of 6 in. in order to lap all joints.

ATLAS ROOFING CORP — ACFoam II, ACFoam III.

BPB AMERICA INC — Types L, O.

CARLISLE SYNTEC INCORPORATED — Types HP, HP-H, HP-N, HP-W.

FIRESTONE BUILDING PRODUCTS CO, DIV OF BFS DIVERSIFIED PRODUCTS L L C — "ISO 95+FK", "ISO 95+GL", "ISO 95+GRF", "ISO 95+GW", "ISO 300".

GAF MATERIALS CORP — Isotherm R.

HUNTER PANELS — H Shield.

JOHNS MANVILLE INTERNATIONAL INC — ENRGY 2, ENRGY 3, ISO-I, PSI 25.

LOADMASTER SYSTEMS INC — Loadmaster Polyisocyanurate Insulation.

RMAX INC — Multi-Max FA, Multi-Max FA-3.

STEVENS ROOFING SYSTEMS, DIV OF JPS ELASTOMERICS CORP — "Stevens ISO 2000", "Stevens ISO 3000".

3A. **Roof Insulation — Building Units* —** (Not Shown) — As an alternate to Item 3, 36 by 48 in. (min size) polyisocyanurate foamed plastic insulation boards, faced on underside (or both sides) with mineral and fiber boards. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

FIRESTONE BUILDING PRODUCTS CO, DIV OF BFS DIVERSIFIED PRODUCTS L L C — ISO 95+ Composite.

JOHNS MANVILLE INTERNATIONAL INC — Fesco-Foam.

3B **Building Units* —** (Not Shown) As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with oriented strand board. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

ATLAS ROOFING CORP — ACFoam NailBase Insulation, Vented-R.

FIRESTONE BUILDING PRODUCTS CO, DIV OF BFS DIVERSIFIED PRODUCTS L L C — Hailgard.

JOHNS MANVILLE INTERNATIONAL INC — Nailboard.

MARTIN FIREPROOFING GEORGIA INC — Perform-A-Deck Nailable Roof Insulation.

3C. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards faced on the underside with wood fiber board. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on max overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

FIRESTONE BUILDING PRODUCTS CO, DIV OF BFS DIVERSIFIED PRODUCTS L L C — "ISO 95+ Wood Fiberboard Composite".

JOHNS MANVILLE INTERNATIONAL INC — ENRGY 2 Plus.

3D. **Building Units* —** Not Shown — As an alternate to Item 3, composite polyisocyanurate foamed plastic insulation board with an adhered nailing surface, nom 48 by 48 or 96 in. may be used with the following limitations. These composite building units have ventilation slots internal to the panels. The thickness of the panel depends upon the thinnest portion of the polyisocyanurate insulation. The following dimensions apply to the polyisocyanurate insulation, min thickness is as stated in Item 3. There is no limit on the max insulation thickness.

GAF MATERIALS CORP — Type INSUL-AIR.

JOHNS MANVILLE INTERNATIONAL INC — Type ISO-VENT.

3E. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 or 96 in., faced on the top surface with gypsum board. Min thickness of the polyisocyanurate core is as is stated for Item 3, Roof Insulation. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

JOHNS MANVILLE INTERNATIONAL INC — ENRGY 2 gypsum Composite.

3F. **Building Units* —** As an alternate to Item 3, polyisocyanurate foamed plastic insulation boards, nom 48 by 48 by 96 in., faced on the top surface with oriented strand board. Min thickness of the polyisocyanurate core is as stated in Item 3, Roof Insulation. No limit on overall thickness. Boards to be installed with end joints staggered a min of 6 in. in adjacent rows.

4. **Vapor Retarder-Sheathing Material* —** (Optional — Not shown) — Vinyl film or paper scrim vapor barrier, applied to steel roof deck with adhesive (Item 5), asphalt (Item 6) or laid loosely, overlapped approximately 2 in. on adjacent sheets. See Sheathing Material (CHIZ) category for names of manufacturers.

5. **Adhesive* —** (Optional) — The vapor retarder or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the first layer of insulation to vapor retarder and each additional layer of insulation. Applied in 1/2 in. wide ribbons 6 in. OC at 0.4 gal/100 sq ft. See Adhesives (GYWR) category for name of manufacturers.

5A. **Adhesive*—(Optional) —** (Bearing the UL Classification Marking for Roof Systems (TGFU)) - The vapor retarder, the gypsum wallboard or the first layer of roof insulation may be secured with adhesive to the steel crest surfaces. Also used to attach the vapor retarder to gypsum wallboard, the first layer of insulation to vapor retarder or gypsum wallboard and each additional layer of insulation. Applied at a max rate of 19.8 g/ft^2. When FAST 100 adhesive is used, additional **Spray-Applied Fire Resistance Materials* (CHPX)** is required on the deck for the 1-1/2 and 2 hr Unrestrained Assembly Ratings. The thickness specified for the deck shall be increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating.

CARLISLE SYNTEC INCORPORATED — FAST 100

6. **Asphalt or Coal Tar Pitch* —** (Optional — Not shown) — The vapor retarder or the first layer of roof insulation may be secured with asphalt or coal tar pitch to the steel crest surfaces at a max rate of 15 lbs/100 sq ft. Also used to attach the first layer of insulation to vapor retarder and each additional layer of roof insulation, applied at a max rate of 25 lbs/100 sq ft.

7. **Mechanical Fasteners —** (Optional — Not shown) — Mechanical screw-type fastener with metal or plastic washer designed for the purpose may be used to attach one or more layers of insulation to steel roof deck.

8. **Steel Roof Deck** — (Unclassified) — Min 1-1/2 in. deep and 30 in. wide galv or painted fluted steel deck. When unclassified painted deck is used, Item 8A must be used. Flutes 6 in. OC with crest width ranging from 3-5/8 to 5-1/16 in. Min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports at deck laps at a max of 12 in. OC between sides of units. Side laps of adjacent units welded, button-punched or secured together with No. 12 by 3/4 in. long self-drilling, self-tapping steel screws spaced a max of 36 in. OC or

Classified Steel Floor Form Units* — Noncomposite, 1-1/2 or 3 in. deep galv units, min gauge is 22 MSG. Ends overlapped at supports min 1-1/2 in. and welded to supports at deck laps at a max of 12 in. OC between sides of units. Side laps of adjacent units welded, button-punched or secured together with No. 12 by 3/4 in. long self-drilling, self-tapping steel screws spaced a max of 36 in. OC.

CONSOLIDATED SYSTEMS INC — Types B, BI, F, N, NI. Units may be phos/ptd.

8A. **Metal Lath —** Not shown — Required on unclassified painted steel roof deck. Rib lath, galv or painted, min 2.5 lb/sq yd, with ribs facing down, fastened to deck using No. 8 by 1/2 in. wafer head self-drilling, self-tapping coated steel screws spaced max 15 in. OC in both directions with lath edges overlapped approx 3 in.

9. **Spray-Applied Fire Resistive Materials* —** Applied to steel surfaces by spraying with water, in one or more coats, to final thicknesses shown in the table below. Steel surfaces should be free of dirt, oil and scale. Use of adhesive is required on the steel roof deck. Tamping is optional. Min avg density of 13 pcf, and min ind density of 11 pcf for Types DCP and IL Min avg and min ind densities of 22 and 19 pcf, respectively, for Type HP. For method of density determination, refer to Design Information Section, Sprayed Material. The protection material on steel deck shall cover screw tips by min 1/2 in.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Insulation Thkns In.	Wallboard (Item No. 13) Required	Protection Thkns In.			
					Deck#	W6x16 Beam	10K1 Joist	12K3 Joist	10K1 Joist (1)
1	1	1	1	Yes	1/2	5/8	NR	1-1/16	NR
1	1	1	2	Yes	1/2	5/8	NR	1-1/16	NR
1	1	1	0	Yes	5/8	5/8	NR	1-1/16	NR
1	1	1	3	No	13/16	5/8	NR	1-1/16	NR
1	1	1	2	No	15/16	5/8	NR	1-1/16	NR
1	1	1	1	No	1-1/4	5/8	NR	1-1/16	NR
1	1	1	0	No	2-1/16	5/8	NR	1-1/16	NR
1-1/2	1	1	2	Yes	13/16	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	1	Yes	7/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	3	No	1-3/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1	1	2	No	1-3/4	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	2	Yes	13/16	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	1	Yes	7/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	0	Yes	1	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	3	No	1-3/8	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	2	No	1-3/4	13/16	1-9/16	1-9/16	1-1/8
1-1/2	1-1/2	1-1/2	0	No	2-5/8	13/16	1-9/16	1-9/16	1-1/8
2	1	1	2	Yes	1-3/16	1	1-5/8	1-5/8	1-3/8
2	1	1	1	Yes	1-3/8	1	1-5/8	1-5/8	1-3/8
2	1	1	3	No	2-1/8	1	1-5/8	1-5/8	1-3/8
2	1	1	2	No	2-5/16	1	1-5/8	1-5/8	1-3/8
2	2	2	2	Yes	1-3/16	1	1-11/16	1-11/16	1-9/16
2	2	2	1	Yes	1-3/8	1	1-11/16	1-11/16	1-9/16
2	2	2	0	Yes	1-9/16	1	1-11/16	1-11/16	1-9/16
2	2	2	3	No	2-1/8	1	1-11/16	1-11/16	1-9/16
2	2	2	2	No	2-5/16	1	1-11/16	1-11/16	1-9/16
2	2	2	0	No	3-1/4	1	1-11/16	1-11/16	1-9/16

#The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 5A is used.

1 = Thickness of 10K1 joists when spacing is 4 ft. or less OC.

NR = No Rating

ISOLATEK INTERNATIONAL — Type D-C/F, HP, I or II, Type EBS or Type X adhesive/sealer

9A. **Spray-Applied Fire Resistive Material* —** (Not shown — As an alternate to Item 9) Applied by mixing with water and spraying or troweling in one or more coats to a final thickness as shown in the table below, to steel surfaces which must be clean and free of dirt, loose scale and oil. Thickness beneath floor units measured to face of lath (Item 15). Min avg density of 38 pcf with min ind value of 35 pcf for Type 800. Min avg density of 44 pcf with min ind value of 40 pcf for Type M-II. Min avg density of 44 pcf with min ind value of 42 pcf for Type TG. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Insulation Thkns In.	Wallboard (Item No. 13) Required	Protection Thkns In.			
					Deck#	W6x16 Beam	10K1 Joist	12K3 Joist
1	1	1	1	Yes	9/16	11/16	NR	1-1/16
1	1	1	2	Yes	9/16	11/16	NR	1-1/16
1	1	1	0	Yes	11/16	11/16	NR	1-1/16
1	1	1	3	No	13/16	11/16	NR	1-1/16
1	1	1	2	No	15/16	11/16	NR	1-1/16
1	1	1	1	No	1-1/4	11/16	NR	1-1/16
1	1	1	0	No	2-1/16	11/16	NR	1-1/16
1-1/2	1	1	2	Yes	13/16	13/16	1-9/16	1-9/16
1-1/2	1	1	1	Yes	7/8	13/16	1-9/16	1-9/16
1-1/2	1	1	3	No	1-3/8	13/16	1-9/16	1-9/16
1-1/2	1	1	2	No	1-3/4	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	2	Yes	13/16	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	1	Yes	7/8	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	0	Yes	1	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	3	No	1-3/8	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	2	No	1-3/4	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	1	No	2-5/8	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	0	No	3-1/4	1	1-11/16	1-11/16	1-9/16
2	2	2	2	No	1-3/4	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	2	No	2-5/8	13/16	1-9/16	1-9/16
1-1/2	1-1/2	1-1/2	0	No	2-5/8	13/16	1-9/16	1-9/16
2	1	1	2	Yes	1-3/16	1	1-5/8	1-5/8
2	1	1	1	Yes	1-3/8	1	1-5/8	1-5/8
2	1	1	3	No	2-1/8	1	1-5/8	1-5/8
2	1	1	2	No	2-5/16	1	1-5/8	1-5/8
2	2	2	2	Yes	1-3/16	1	1-11/16	1-11/16
2	2	2	1	Yes	1-3/8	1	1-11/16	1-11/16
2	2	2	0	Yes	1-9/16	1	1-11/16	1-11/16
2	2	2	3	No	2-1/8	1	1-11/16	1-11/16
2	2	2	2	No	2-5/16	1	1-11/16	1-11/16
2	2	2	0	No	3-1/4	1	1-11/16	1-11/16

#The required minimum thickness of Spray-Applied Fire Resistive Materials on the steel deck is increased by 1/16 in. for 1-1/2 hr Unrestrained Assembly Rating and 1/4 in. for 2 hr Unrestrained Assembly Rating when Item 5A is used.

NR = No Rating

ISOLATEK INTERNATIONAL — Types 800, M-II or TG ivestigated for exterior use.

10. **Glass Fiber Mesh —** (Optional) — Not Shown — Min 3/32 in. square mesh, coated fiberglass scrim fabric, weighing a min of 1.9 oz/sq yd shall be attached to one side of each joist web member. The method of attachment must be sufficient to hold the mesh and fire protection material during application and curing of the material. An acceptable method of attaching the mesh is by embedding the mesh in min 1/4 in. long beads of hot melted glue. The beads of glue shall be spaced min 12 in. OC along the top chord of the bar joists. Another method of attachment is the use of 1-1/4 in. long, 1/2 in. wide hairpin clips formed from 0.064 in. diameter steel wire, alternating from top to bottom of the joist web member.

11. **Metal Lath** — (Optional) — As an alternate to Item 10 — Metal lath used to facilitate the spray application of the Spray-Applied Fire Resistive Material to the steel joists. Diamond mesh, 3/8 in. expanded steel, min 1.7 lb/sq yd fastened to one side of joists using No. 18 SWG steel wire, located at midheight of every other member or 18 in. OC whichever is less. Both sides of lath must be completely coated with Spray-Applied Fire Resistive Material, but with no min thickness requirements.

12. **Bridging** — (Not shown) — Min 1-1/4 by 1-1/4 by 1/8 in. thick steel angles welded to top and bottom chords of each joist. Number and spacing of bridging angles per Steel Joist Institute specification. Bridging coated with the same thickness of Spray-Applied Fire Resistive Materials (Item 9) as the joist.

13. **Gypsum Board** — (Not shown — Classified or Unclassified) — May be used to obtain various Restrained and Unrestrained Assembly Ratings as described in (Item 9). Supplied in sheets nom 2 by 4 ft to 4 by 12 ft, by nom 5/8 in. thick. Min weight 2.2 psf. Applied perpendicular to steel roof deck direction with adhesive (Item 5), hot asphalt (Item 6) or laid loosely. End joints to occur over crests of steel roof and to be staggered 2 ft in adjacent rows. See **Gypsum Board** (CKNX) category for names of manufacturers.

14. **Building Units* —** (Optional — Not shown) — Nominal 12 by 18 in. or 18 by 24 in. flat or tapered cellular glass blocks or 24 by 48 in. flat or tapered cellular glass boards, applied over the roof insulation (Item 3 or 3A) with asphalt (or coal tar pitch). Joints to be offset from joints of roof insulation.

PITTSBURGH CORNING CORP

15. **Metal Lath —** (For use on steel roof deck with Item 9A) 3/8 in. diamond mesh, min 2.5 lbs per sq yd painted or galv expanded steel. Fastened to steel roof deck with ribs facing down using No. 8 by 1/2 in. wafer head self-drilling, self-tapping, coated steel screws spaced max 15 in OC in both directions for 1 and 1-1/2 hr ratings. Spaced a max 12 in. OC in both directions for 2 hr ratings. Lath edges overlapped approx 3 in.

*Bearing the UL Classification Mark

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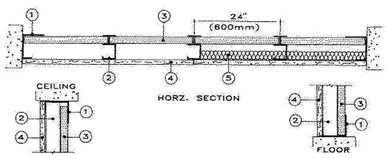
Design No. U469

September 03, 2015

Assembly Rating — 1 HR

Nonbearing Wall

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**



1. **Floor and Ceiling Runners —** "J" - shaped, 2-1/2 in. wide with unequal legs of 1 in. and 2 in., fabricated from 24 MSG galv steel (min 20 MSG steel required when Item 4A is used). Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC.

2. **Steel Studs —** "C-H" shaped studs, 2-1/2 in. wide by 1-1/2 in. deep, fabricated from min 25 MSG galv steel (min 20 MSG steel required when Item 4A is used), spaced 24 in. or 600 mm OC. Vertically restrained walls require studs to be cut 3/8 in. less than floor to ceiling height.

3. **Gypsum Board* —** 1 in. thick gypsum wallboard liner panels, supplied in nominal 24 in. or 600 mm widths. Vertical edges inserted in "H" shaped section of "C-H" studs. Free edge of end panels attached to long leg of "J" runners with 1-5/8 in. long Type S head steel screws spaced not greater than 12 in. OC.

CGC INC — Type SLX.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFCSL

GEORGIA-PACIFIC GYPSUM L L C — Types TP-6, DGUSL, and TRSL

UNITED STATES GYPSUM CO — Type SLX

USG BORAL ZAWAWI DRYWALL L L C SFZ — Type SLX

USG MEXICO S A DE C V — Type SLX.

4. **Gypsum Board* —** 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.

ACADIA DRYWALL SUPPLIES LTD — 5/8 Type X, Type Blueglass Exterior Sheathing

AMERICAN GYPSUM CO — Types AGX-1, M-Glass, AG-C.

CERTAINTEED GYPSUM INC — Type C.

CGC INC — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULX, or WRC.

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Types LGFC-C, LGFC-C/A, LGFC6A

GEORGIA-PACIFIC GYPSUM L L C — Types 5, DAPC, Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type TG-C, Type LWX, Veneer Plaster Base-Type LWX, Water Rated-Type LWX, Sheathing Type-LWX, Soffit-Type LWX, Type DGLW, Water Rated-Type DGLW, Sheathing Type- DGLW, Soffit-Type DGLW, Type LW2X, Veneer Plaster Base - Type LW2X, Water Rated - Type LW2X, Sheathing - Type LW2X, Soffit - Type LW2X, Type DGL2W, Water Rated - Type DGL2W, Sheathing - Type DGL2W, Type DGL, Type DM5, Type DS.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-11, PG-C, PGS-WRS.

THAI GYPSUM PRODUCTS PCL — Type C.

UNITED STATES GYPSUM CO — Types C, FRX-G, IP-X1, IP-X2, IPC-AR, SCX, ULX or WRC.

USG BORAL ZAWAWI DRYWALL L L C SFZ — Types C, SCX

USG MEXICO S A DE C V — Types C, IP-X1, IP-X2, IPC-AR, SCX, ULX, or WRC.

4A. **Gypsum Board* —** Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips (Item 6) required behind vertical joints

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. **Gypsum Board* —** Not Shown - As an Alternate to Item 4. Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints. To be used with Lead Batten Strips (see Item 6B) or Lead Discs (see Item 6C).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

4C. **Gypsum Board* —** (Not Shown - As an Alternate to Item 4.). Nom 5/8 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws gypsum panel steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. Lead batten strips required behind vertical joints of lead backed gypsum wallboard and optional at remaining stud locations. Lead batten strips, min 2 in. wide, max 8 ft long with a max thickness of 0.14 in. placed on the face of studs and attached to the stud with construction adhesive and two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead discs, nominal 3/8 in. diam by max 0.085 in. thick. Compression fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall

4D. **Gypsum Board* —** For use with Item 5D, **Batts and Blankets*** and minimum stud depth increased to 4 in. - 5/8 in. thick, 4 ft or 1200 mm wide, applied vertically and attached to studs with 1 in. long Type S steel screws spaced 12 in. OC along the edges and in the field of the boards.

UNITED STATES GYPSUM CO — Type ULIX

5. **Batts and Blankets* —** (Optional) — Mineral wool batts partially or completely filling stud cavity.

ROXUL INC — Type AFB

THERMAFIBER INC — Type SAFB

5A. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) — (100% Borate Formulation) — Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft^3. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft^3, in accordance with the application instructions supplied with the product.

U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS765LD and INS770LD are to be used for dry application only.

5B. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.

NU-WOOL CO INC — Cellulose Insulation

5C. **Fiber, Sprayed* —** As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft^3.

INTERNATIONAL CELLULOSE CORP — Ceilber-RL

5D. **Batts and Blankets* —** For use with Item 4D. Placed in stud cavities, any min. 3-1/2 in. thick glass fiber insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or R222) Categories** for names of Classified companies.

6. **Lead Batten Strips —** For Use with Item 4A - (Not Shown) — Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6A. **Lead Discs or Tabs —** (Not Shown) - Used in lieu of or in addition to the lead batten strips (Item 6) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 5) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-201f, Grade "C".

6B. **Lead Batten Strips —** (Not Shown, for use with Item 4B) Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.140 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.5% meeting

the Federal specification QQ-L-201f, Grades "B, C or D".

6C. **Lead Discs —** (Not Shown, for use with Item 4B) Max 5/16 in. diam by max 0.140 in. thick lead discs compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.5% meeting the Federal Specification QQ-L-201f, Grades "B, C or D".

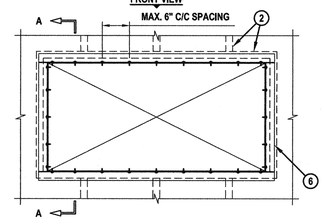
*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**

UL/cUL SYSTEM NO. W-L-7155

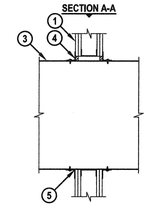
SHEET METAL DUCT THROUGH GYPSUM WALL ASSEMBLY

F-RATING = 1-HR. OR 2-HR.
T-RATING = 0-HR.
L-RATING AT AMBIENT = LESS THAN 1 CFM / SQ FT
L-RATING AT 400°F = LESS THAN 1 CFM / SQ FT

FRONT VIEW



SECTION A-A



1. **GYPSUM WALL ASSEMBLY (UL/cUL CLASSIFIED U400 OR V400 SERIES) (1-HR. OR 2-HR. FIRE-RATING) (2-HR. SHOWN).**
2. **STEEL STUDS TO BE MINIMUM 3-1/2" WIDE. OPENING TO BE FRAMED OUT WITH STUD MATERIAL.**
3. **MAXIMUM 100" x 100" RECTANGULAR SHEET METAL DUCT (CONSTRUCTED AND REINFORCED IN ACCORDANCE WITH SMACNA CONSTRUCTION STANDARDS).**
4. **MINIMUM 5/8" DEPTH HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT.**
5. **[NOT SHOWN] MINIMUM 1/4" BEAD HILTI FS-ONE MAX OR FS-ONE INTUMESCENT FIRESTOP SEALANT, HILTI CP 606 FLEXIBLE FIRESTOP SEALANT, OR HILTI CFS-S SIL GG FIRESTOP SILICONE SEALANT APPLIED AT POINT OF CONTACT, PRIOR TO ATTACHMENT OF STEEL ANGLE.**
6. **STEEL RETAINING ANGLE (SEE NOTE NO. 3 AND TABLE BELOW).**

MAXIMUM DUCT DIMENSION	DUCT THICKNESS	ANNULAR SPACE MIN. - MAX.	MINERAL WOOL REQUIRED	RETAINING ANGLE REQUIRED
24 IN.	24 GA. (OR HEAVIER)	1/2" - 1"	MINIMUM 3-3/4" THICKNESS FOR 1-HR. MINIMUM 5" THICKNESS FOR 2-HR.	NO

NOTES : 1. MAXIMUM SIZE OF OPENING = 104" x 102".
2. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2".
3. AFTER SEALING SPACE BETWEEN DUCT AND GYPSUM WALL ASSEMBLY WITH HILTI FIRESTOP SEALANT, FASTEN STEEL ANGLE (MIN. 18 GA. FOR DUCTS 48" x 24" OR SMALLER, OTHERWISE MIN. 16 GA.) TO DUCT WITH MINIMUM NO. 10 SHEET METAL SCREWS (SPACED MAXIMUM 1" FROM EACH END OF STEEL DUCT AND SPACED MAXIMUM 6" C/C). STEEL ANGLE TO OVERLAP DUCT BY MINIMUM 2" AND GYPSUM WALL ASSEMBLY BY MINIMUM 1". ANGLE DOES NOT HAVE TO BE FASTENED TO GYPSUM WALL ASSEMBLY.
4. [OPTIONAL] POLYETHYLENE BACKER ROD, MINERAL WOOL, OR GLASS-FIBER BATT INSULATION MAY BE USED AS BACKING MATERIAL FOR FIRESTOP SEALANT (EXCEPT WHERE REQUIRED IN TABLE ABOVE).

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Matthew Hilton
No. C-31407
12-31-2017
REN
STATE OF CALIFORNIA

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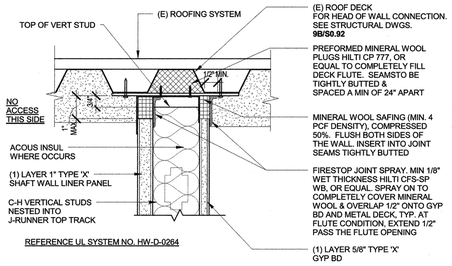
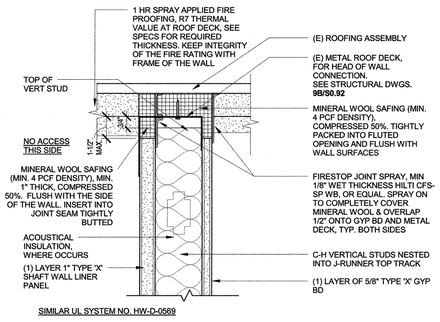
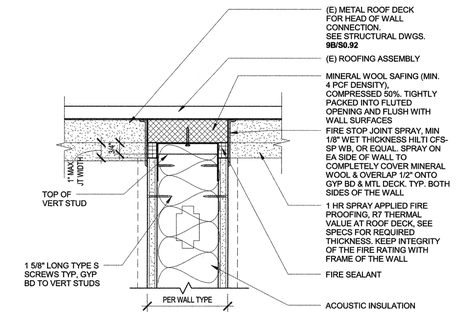


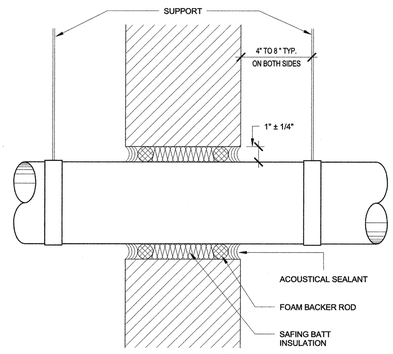
1-HR SHAFT WALL AT METAL DECK (PARALLEL BETWEEN FLUTES) 3" = 1'-0" | 17



1-HR SHAFT WALL TO METAL DECK (PERPENDICULAR) 3" = 1'-0" | 13

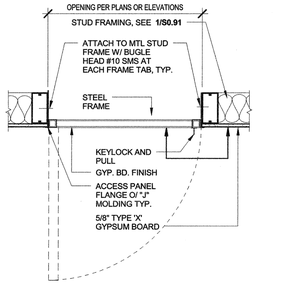


ACOUSTIC WALL AT METAL DECK (PERPENDICULAR) 3" = 1'-0" | 05

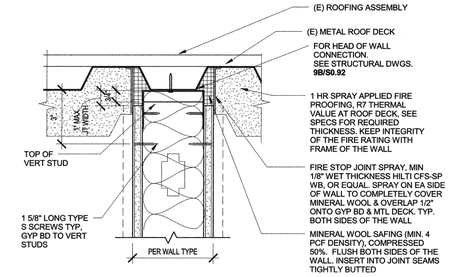


NOTES: APPLICABLE AT ALL SOUND-RATED CONSTRUCTIONS INCLUDING INTERIOR INSULATED ASSEMBLIES

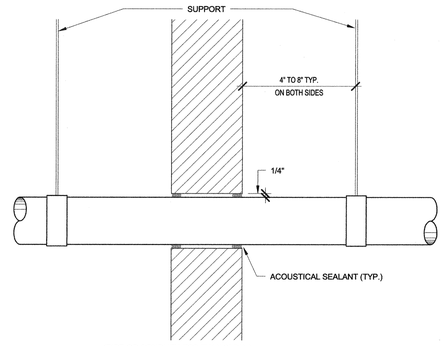
TYP. PIPE THROUGH SOUND-RATED CONSTRUCTION 3" = 1'-0" | 01



WALL ACCESS PANEL 1" = 1'-0" | 14

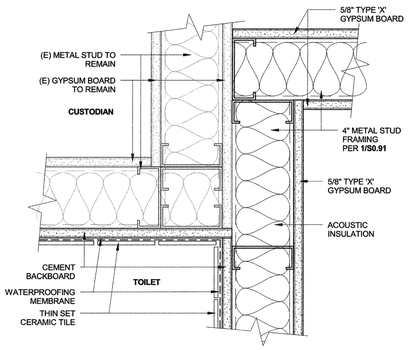


ACOUSTIC WALL AT METAL DECK (PARALLEL) 3" = 1'-0" | 06

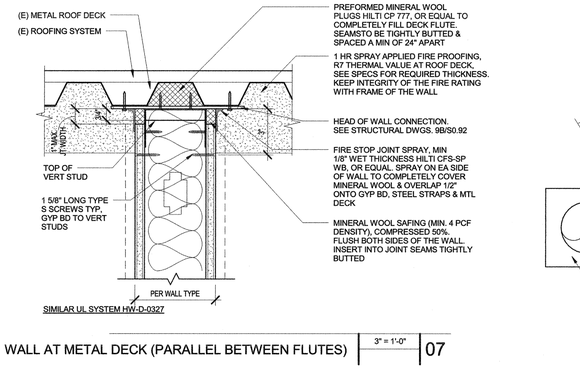


NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTIONS INCLUDING INTERIOR INSULATED ASSEMBLIES

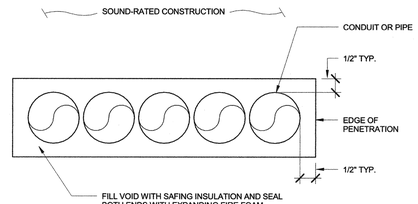
TYP PIPE OR CONDUIT PENETRATION THROUGH SOUND-RATED CONSTRUCTION 3" = 1'-0" | 02



INTERIOR WALL CONNECTION 3" = 1'-0" | 15

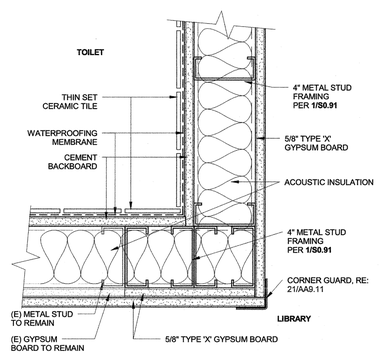


ACOUSTIC WALL AT METAL DECK (PARALLEL BETWEEN FLUTES) 3" = 1'-0" | 07

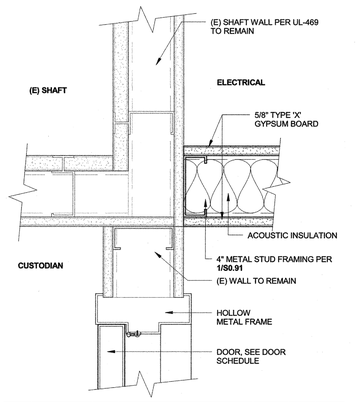


NOTE: APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES.

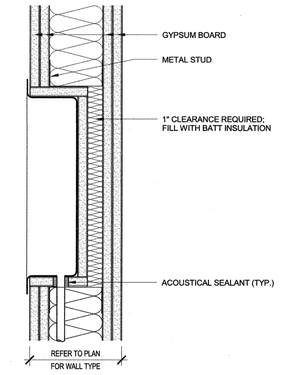
TYP. MULT. PIPE PENETRATION 6" = 1'-0" | 03



INTERIOR WALL CONNECTION 3" = 1'-0" | 16

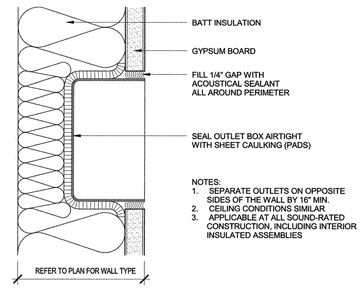


INTERIOR WALL CONNECTION 3" = 1'-0" | 12



NOTES:
1. LINE TOP, BOTTOM, BACK, AND SIDES WITH ONE LAYER 5/8" GYPSUM BOARD OR 2 psf SHEET LEAD.
2. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION INCLUDING INTERIOR INSULATED ASSEMBLIES.

RECESSED PANEL ANX FIXTURES 3" = 1'-0" | 08



NOTES:
1. SEPARATE OUTLETS ON OPPOSITE SIDES OF THE WALL BY 16" MIN.
2. CEILING CONDITIONS SIMILAR
3. APPLICABLE AT ALL SOUND-RATED CONSTRUCTION, INCLUDING INTERIOR INSULATED ASSEMBLIES

NOTE: WHERE FIRE-RATED PADS ARE REQUIRED, NELSON FSP FIRESTOP PUTTY PADS MAY BE USED

JUNCTION BOX ISOLATION IN SOUND-RATED CONSTRUCTION 6" = 1'-0" | 04

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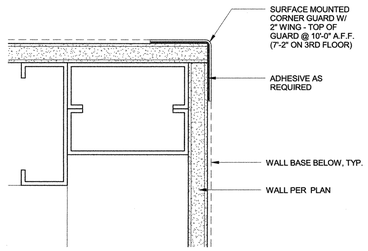
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/13/2016
50% CD ESTIMATE	6/6/2016
85% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/02/2017
DSA APPROVAL	02/02/2017

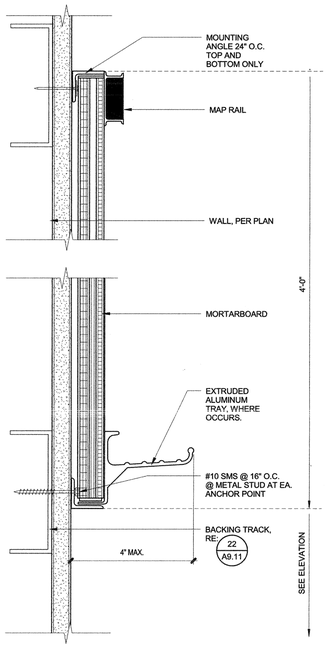
Job. No.	153819
Date	02/02/2017
Checked by	Checker
Scale	As indicated

WALL DETAILS

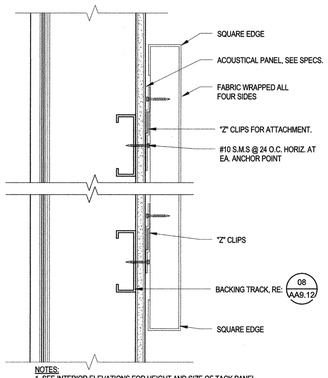
AA9.03



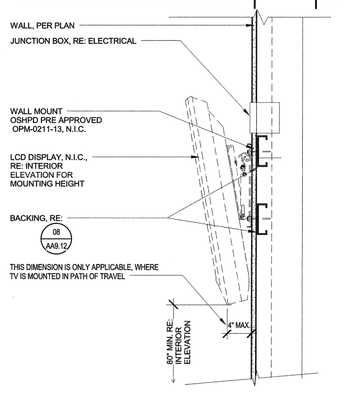
SURFACE MOUNTED - CONRNER GUARD | 6" = 1'-0" | 21



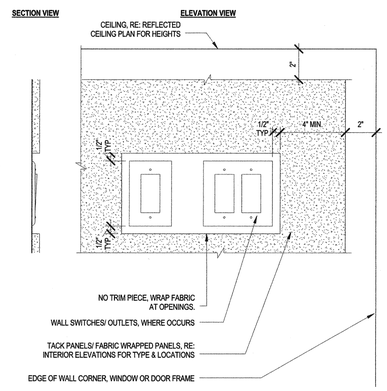
MARKERBOARD SUPPORT | 6" = 1'-0" | 18



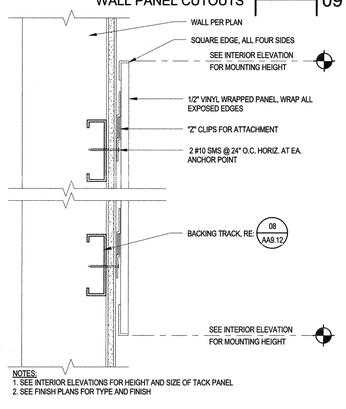
ACOUSTICAL PANEL ATTACHMENT | 3" = 1'-0" | 13



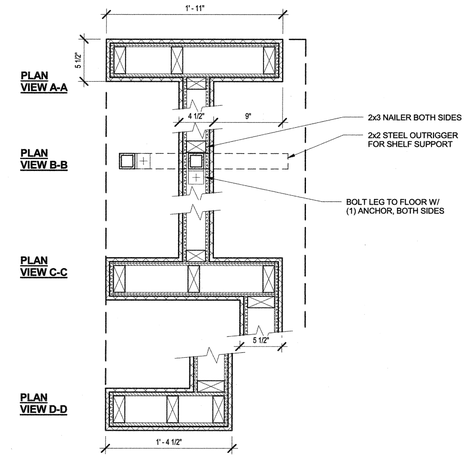
TV MOUNT TO WALL | 1 1/2" = 1'-0" | 14

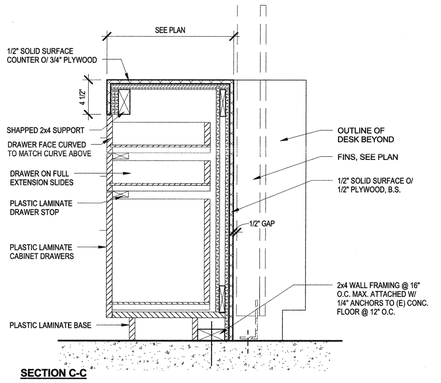


WALL PANEL CUTOUTS | 3" = 1'-0" | 09

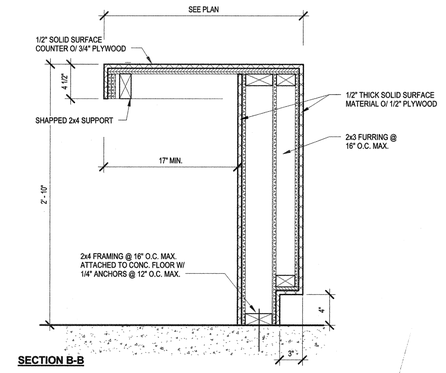


VINYL WRAPPED TACK PANELS | 3" = 1'-0" | 10

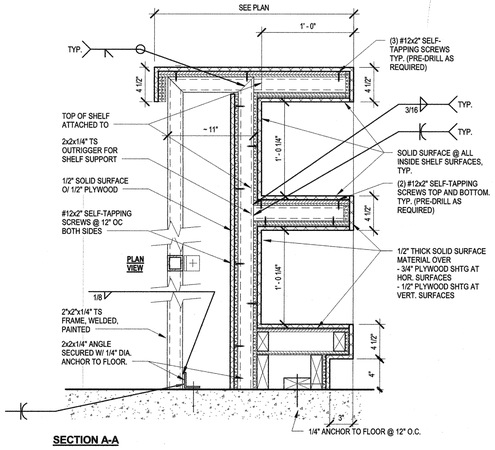




SECTION C-C



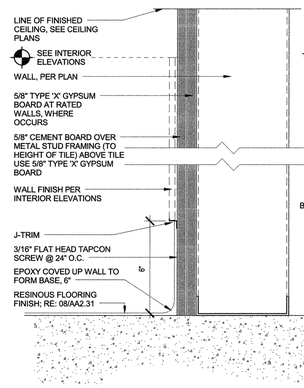
SECTION B-B



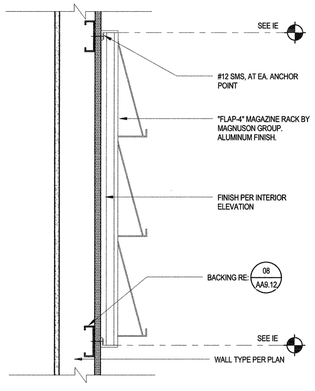
SECTION A-A

TYP. ALL ANCHORS TO (E) LIGHT WEIGHT CONC. FLOOR TO BE : 1/4" DIA. X 1-5/8" EMBED SIMPSON TITEN HD ANCHOR, PER ICC 2713

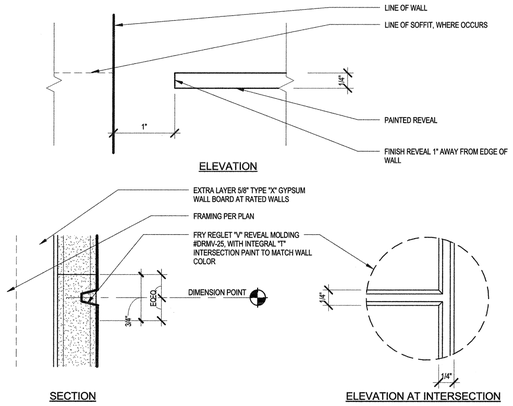
LIBRARY RECEPTION DESK | 1 1/2" = 1'-0" | 04



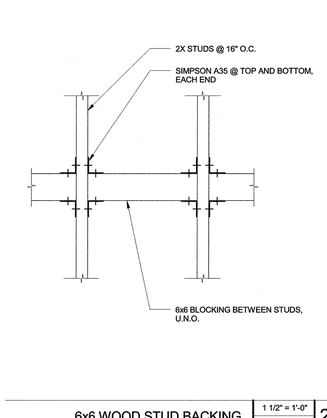
RESTROOM COVE BASE | 3" = 1'-0" | 23



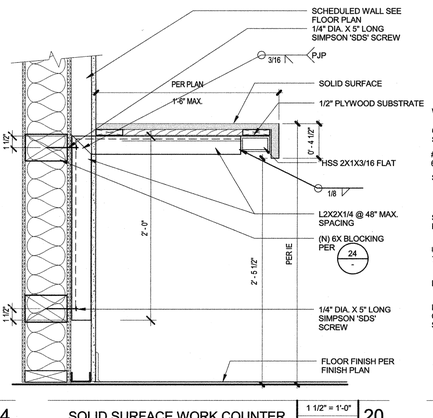
MAGAZINE DISPLAY, WALL MOUNTED | 1 1/2" = 1'-0" | 19



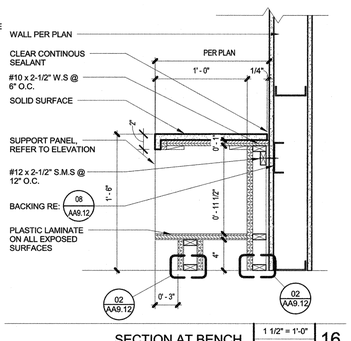
GYP. BOARD REVEAL | 12" = 1'-0" | 11



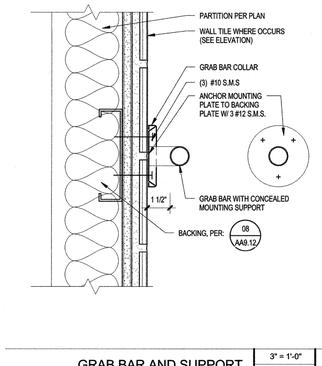
6x6 WOOD STUD BACKING | 1 1/2" = 1'-0" | 24



SOLID SURFACE WORK COUNTER | 1 1/2" = 1'-0" | 20



SECTION AT BENCH | 1 1/2" = 1'-0" | 16



GRAB BAR AND SUPPORT | 3" = 1'-0" | 12

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LICENSED ARCHITECT DENISE REN C-31-2017 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
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EAST SIDE Union High School District

OAK GROVE HIGH SCHOOL - LIBRARY
REMODEL & SITE IMPROVEMENTS

285 Blossom Hill Road,
San Jose, CA 95123

Developed for
East Side Union High School District

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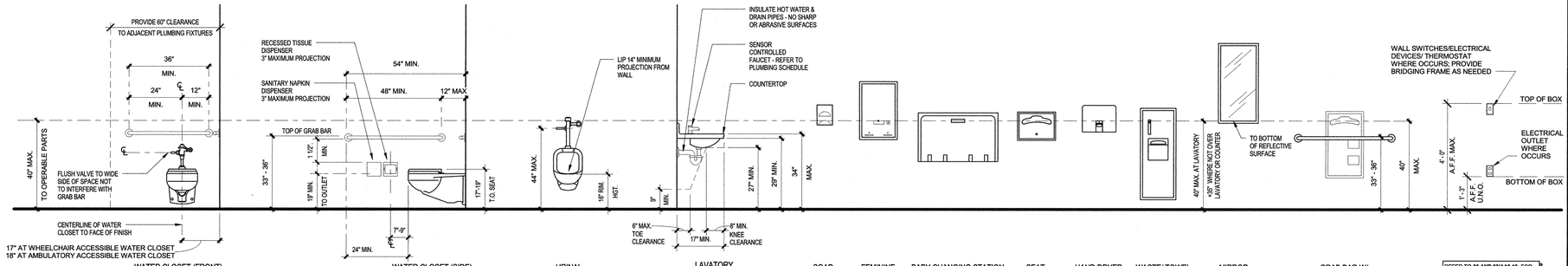
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/16/2016
50% CD ESTIMATE	6/6/2016
95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/25/2017
DSA APPROVAL	02/02/2017

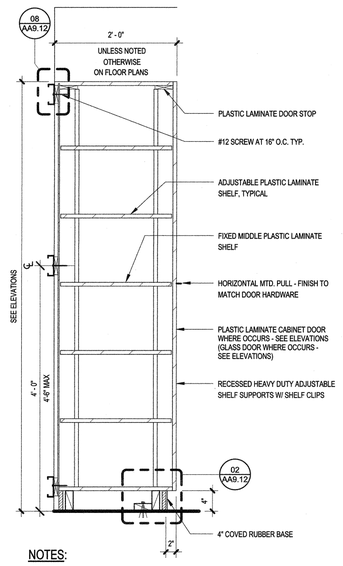
Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As Indicated

INTERIOR DETAILS

AA9.11



ACCESSIBLE MOUNTING HEIGHTS | 1/2" = 1'-0" | 01

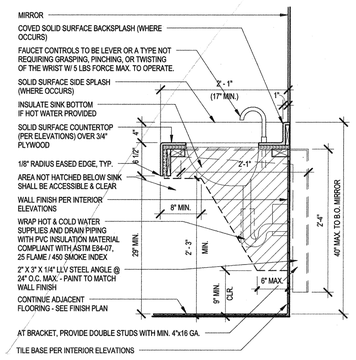


NOTES:

1. CONSTRUCTION SHALL BE W.I.C. 'CUSTOM' STANDARDS; PLASTIC LAMINATE PER FINISH PLANS WITH WHITE THERMALLY FUSED MELAMINE AT INTERIOR

AV CABINET | 1" = 1'-0" | 23

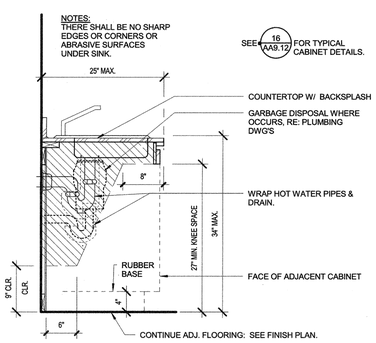
NOTES:
FINISH PER FINISH PLANS AND LEGEND.
REFER TO BACKING TRACK AND SUPPORT DETAIL 08/AA9.12
NO SHARP OR ABRASIVE SURFACES UNDER SINK.
ALL JOINTS TO BE CAULKED WITH CLEAR SILICONE CAULK.



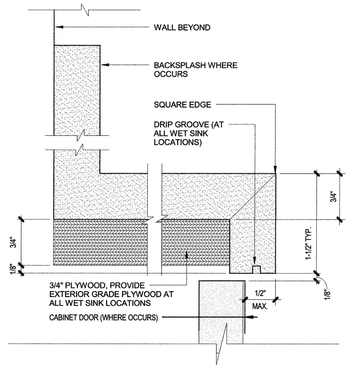
RESTROOM SINK COUNTER | 1" = 1'-0" | 14

NOTES:
THERE SHALL BE NO SHARP EDGES OR CORNERS OR ABRASIVE SURFACES UNDER SINK.

SEE 16/AA9.12 FOR TYPICAL CABINET DETAILS.

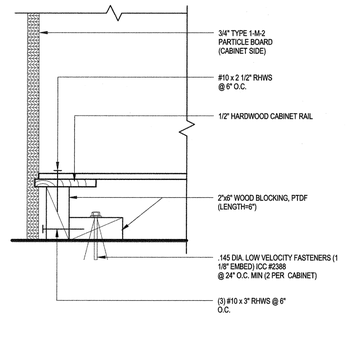


BASE CABINET W/ SINK CLR | 1" = 1'-0" | 10



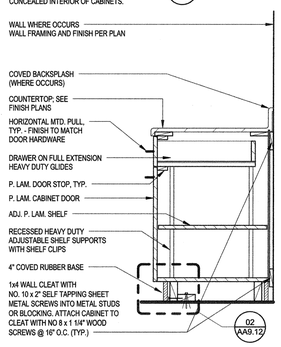
SOLID SURFACE COUNTERTOP | 12" = 1'-0" | 05

NOTE:
BLOCK & ANCHOR EACH SIDE OF CABINET

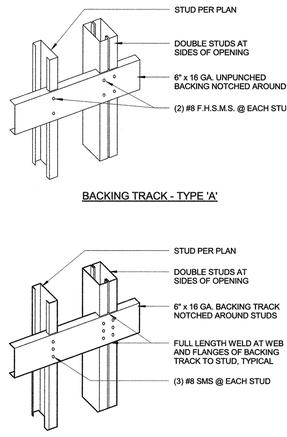


CABINET ANCHORAGE | 3" = 1'-0" | 16/ AA9.11 | 02

NOTE:
CONSTRUCTION SHALL BE W.I.C. 'CUSTOM' STANDARDS.
FINISH PER FINISH PLANS AND LEGEND. WHITE THERMALLY FUSED MELAMINE AT CONCEALED INTERIOR OF CABINETS. SEE 08/A9.12 FOR BLOCKING DETAILS



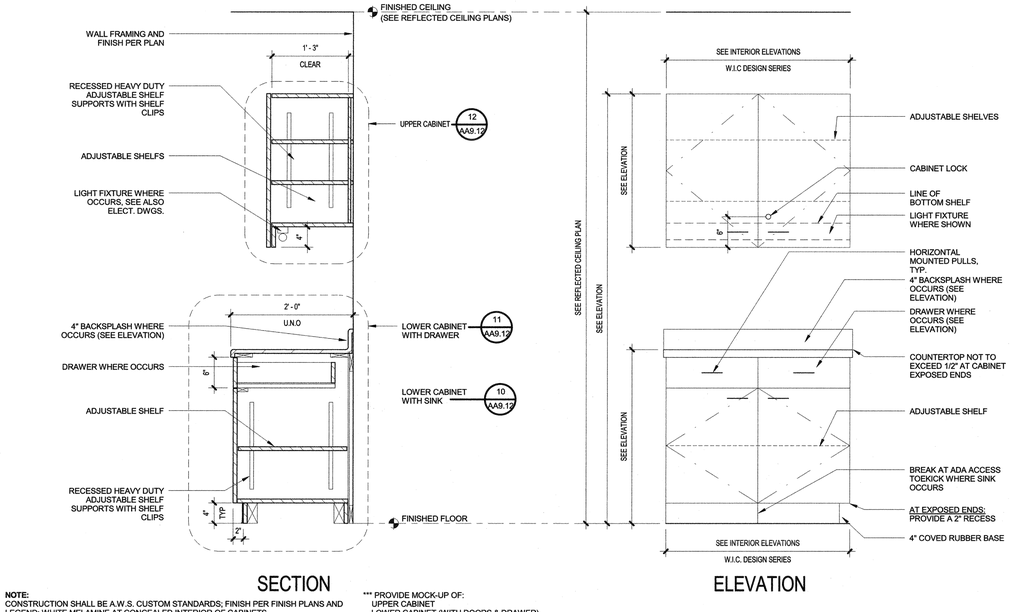
LOWER CABINET WITH DRAWER | 1" = 1'-0" | 16/ AA9.12 | 11



BACKING TRACK NOTES:

1. BACKING TRACK TYPE 'A' - FOR MISCELLANEOUS ITEMS I.E. SURFACE MOUNTED MIRRORS, WASTE RECEPTACLES, TOWEL DISPENSERS, ETC., MAXIMUM WEIGHT: 50 POUNDS.
2. BACKING TRACK TYPE 'B' - FOR UPPER WALL - HUNG CABINETS (UP TO 2 SHELVES), BASE CABINETS, FULL HEIGHT CABINETS, FILM VIEWING COUNTER, WALL - HUNG BENCHES, HANDRAILS, GUARDRAILS, GRAB BARS, WALL - HUNG EQUIPMENT, TOWEL BARS, ETC., MAXIMUM WEIGHT: 250 POUNDS.
3. VERIFY LENGTH, HEIGHT, LOCATION OF BACKING PLATE @ NUMBER REQUIRED WITH EQUIPMENT ACCESSORY MANUFACTURERS.
4. USE # 12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO METAL BACKING PLATE.
5. WALL STUD FLANGES ARE CONTINUOUS.
6. BACKING TRACKS SHALL BE LONGER THAN HUNG EQUIPMENT, ACCESSORY, CABINET BY ONE STUD SPACING AT EACH END (ALL CONDITIONS).

BACKING IN STUD FRAMED WALL | 1/4" = 1'-0" | 08



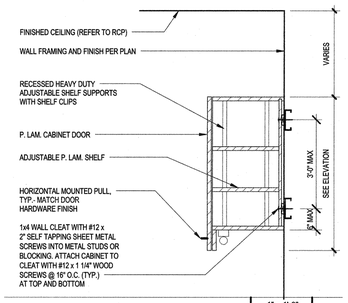
SECTION

ELEVATION

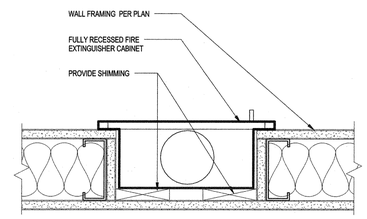
NOTE:
CONSTRUCTION SHALL BE A.W.S. CUSTOM STANDARDS; FINISH PER FINISH PLANS AND LEGEND; WHITE MELAMINE AT CONCEALED INTERIOR OF CABINETS.

*** PROVIDE MOCK-UP OF:
UPPER CABINET
LOWER CABINET (WITH DOORS & DRAWER)

TYPICAL UPPER/LOWER CABINETS | 1" = 1'-0" | 10 / AA9.12 | 16



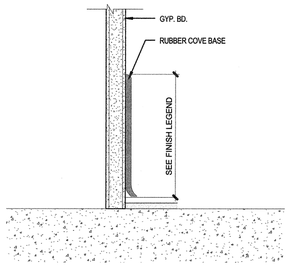
UPPER CABINET | 1" = 1'-0" | 16/ AA9.12 | 12



RECESSED FIRE EXTINGUISHER CAB. | 3" = 1'-0" | 04

NOTES:

1. OPERATION CONTROLS 48" MAX AFF.
2. FIRE RATING TO CONTINUE AROUND FEC AT RATED WALL CONDITION.
3. NO CUTTING OF VERTICAL STUD IS PERMITTED.



RUBBER BASE | 6" = 1'-0" | 03

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LICENSED ARCHITECT DENISE BRUCKER C-30007 REN: STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC FLS SS
DATE: FEB 02 2017
FILE NUMBER: 43-H10

EAST SIDE Union High School District

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San Jose, CA 95123

Developed for
East Side Union High School District

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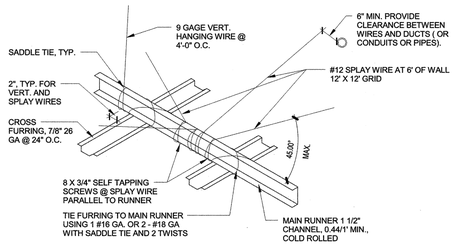
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/10/2016
50% CD ESTIMATE	6/9/2016
95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	01/03/2017
DSA APPROVAL	02/02/2017

Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

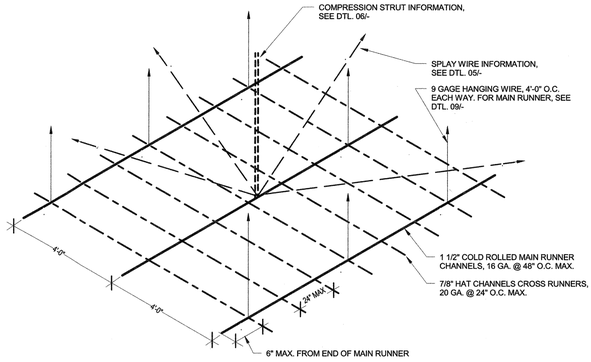
INTERIOR DETAILS

AA9.12



NOTES:
1. WIRES SHOULD BE TAUT WITHOUT CAUSING THE CEILING TO UPLIFT

SUSPENDED GYP. BOARD CEILING DETAIL — 3" = 1'-0" — 17



REQUIREMENTS FROM DSA IR-25.3.13 (dated 04.08.14)

1. **MATERIALS:** Materials are to comply with CBC Section 2508 and applicable ASTM standards. Gypsum wallboard is either 1/2 inch or 5/8 inch in thickness. Cold-formed steel sections specified in this IR are identified by a product designator which has been standardized by the American Iron and Steel Institute (AISI) in collaboration with the Steel Stud Manufacturers Association (SSMA).
2. **DESIGN:** The prescriptive requirements of this IR shall be taken as the minimum requirements and apply to a ceiling that is not accessible, has a single layer of gypsum board not exceeding 5/8" thick, and has a total ceiling weight not to exceed four (4) pounds per square foot (psf). A ceiling that is required by CCR Title 24 to be accessible, or otherwise does not meet these limitations, shall be designed to meet the applicable requirements of CBC Sections 1607A and 2508.1, and ASCE 7-10, Section 13.3.1.
3. **DETAILS OF CONSTRUCTION:**

3.1 General: Gypsum board ceilings shall not support building components other than air conditioning/heating grills or light fixtures. All such components shall be supported either directly from main runners, or by supplemental framing which is supported by main runners. No vertical loads other than gypsum board dead load shall be applied to cross-furring.

3.2 Vertical Support System: There are many possible variations of main runner sizes, spacings, and spans listed in ASTM C754-04, Table 7. All of the combinations are acceptable, provided the main runner spacing does not exceed 4'-0" and the ceiling area supported by a hanger wire does not exceed 16 square feet.

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION – ONE LAYER

3.2.1 Main Runner Spacing and Span: The main runner most frequently used is a 1- 1/2 inch cold rolled channel designated 150U050-54 (1-1/2 inch cold rolled channels weighing 0.414 lbs/ft) spaced no more than 4'-0" o.c. with a hanger wire spacing not to exceed 4'-0" o.c. and no more than 6" from each end of the main runner.

3.2.2 Vertical hanger wires: Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #9 gage (0.148" diameter) with soft temper and minimum tensile strength = 70 ksi.

3.2.3 Cross-furring: 7/8 inch galvanized steel hat sections, designated 087F125-18, at 24 inches o.c. maximum.

3.3 Connecting Hanger Wires, Steel Framing and Furring:

3.3.1 Hanger wires shall be saddle-tied to the main runners per IR 25-2.13 Figure 3A(F).

3.3.2 Cross furring shall be saddle-tied to the main runners with at least one strand of #16 gage, or two strands of #18 gage tie wire.

3.3.3 Main runners shall be spliced by lapping and interlocking flanges and installing two (2) #8 screws at each end of splice. The lap must be a minimum of 12 inches long.

3.3.4 Cross furring shall be spliced by lapping and interlocking the pieces and installing two (2) #8 screws at each end of splice. The lap must be a minimum of eight (8) inches long.

3.4 Installation and Anchorage of Hanger and Bracing Wires: Fasten hanger wires with not less than three (3) tight turns within a distance of three inches. Hanger wire loops shall be tightly wrapped and sharply bent to prevent any vertical movement or rotation of the member within the loops (see ASTM E580, Section 5.2.7.2). Fasten bracing wires with four (4) tight turns within a distance of one and one-half (1-1/2) inches. Hanger and bracing wire anchors shall be installed in such a manner that the direction of the anchor aligns as closely as possible with the direction of the wire.

3.4.1 Separate all ceiling hanger and bracing wires at least six (6) inches from all unbraced ducts, pipes, conduit, etc.

3.4.2 When drilled-in concrete anchors or power actuated fasteners are used in reinforced concrete for hanger wires, 1 out of 10 must be field tested for 200 lbs. in tension. When drilled-in concrete anchors are used for bracing wires, 1 out of 2 must be field tested for 440 lbs in tension. Power actuated fasteners in concrete are not permitted for bracing wires. If any power actuated fastener or drilled-in anchor fails, see 2013 CBC Section 1913A.7.1 or 1913.2.11.1".
Note: Drilled-in anchors or power actuated fasteners embedment depth shall be limited in prestressed concrete to not impinge tensioned reinforcement or special procedures shall be developed to locate and clear tensioned reinforcement.

3.4.3 Provide trapeze or other supplementary support members at obstructions to typical hanger spacing. Provide additional hangers, struts or braces as required at all ceiling breaks, soffits or discontinuous areas. Hanger wires that are more than 1 in 6 out of plumb are to have counter-sloping wires.

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION – ONE LAYER

4. **CEILING FIXTURES, TERMINALS, AND DEVICES:**

4.1 All recessed or drop-in light fixtures, as well as ceiling mounted mechanical air terminals and services, shall be supported directly by main runners or by supplemental framing which is supported by main runners and positively attached with screws or other approved connectors to resist a horizontal force equal to the weight of the component. A minimum of two attachments are required at each fixture and component.

4.2 Surface mounted fixtures shall be attached to a main runner with a positive clamping device made of material with a minimum of 14 gage. Rotational spring clamps do not comply.

4.3 Light fixtures, grilles, mechanical terminals, and flexible sprinkler hose fittings or other services weighing greater than 20 lbs. must be independently supported by not less than two (2) taut #12 gage wires where less than 56 pounds, and four (4) taut #12 gage wires where greater than or equal to 56 pounds, and attached to the housing and to the structure above. The wires, including their attachment to the structure above, must be capable of supporting four (4) times the weight of the unit.

4.4 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling per Section 4.1 of this IR. Devices weighing more than 20 lbs. shall be supported from the structure above per Section 4.3 of this IR.

4.5 Penetrations through the ceiling for sprinkler heads and other similar devices that are not integrally tied to the ceiling system in the lateral direction shall have a two (2) inch oversized ring, sleeve or adapter through the ceiling tile to allow free movement of one (1) inch in all horizontal directions. Alternatively, per ASTM E580, Section 5.2.8.5, a flexible sprinkler hose fitting that can accommodate 1 inch of ceiling movement shall be permitted to be used in lieu of the oversized ring, sleeve, or adapter.

4.6 Access Panels: Access to the space between the ceiling and the floor or roof above shall not be allowed. Small access panels for the inspection, adjustment or repair of utility switches, valves, sensor, etc. may be allowed if the panel is less than 300 square inches. Such panels shall also have a permanently attached warning label as follows:
"Warning: 1) Do not climb, walk, or crawl on the gypsum board ceiling panels or metal framing.
2) Do not store or stow anything on the gypsum board ceiling panels or metal framing."
If fire fighter access is required per CBC Section 1209.2 in attics of combustible construction, the prescriptive suspended ceiling system prescribed in this IR is not applicable, and the ceiling shall be framed and designed for such loading.

5. **LATERAL SYSTEM:**
A gypsum board ceiling greater than 144 square feet in area shall be designed to resist its own seismic loads, per Section 2 above, and shall not be permitted to be used to resist primary structural loads or other loads. There are two optional lateral systems for this purpose:
· The brace wire system, per Section 5.1.
· The diaphragm system, per Section 5.2.
Either or both options may be shown on plans or noted in the specifications.

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION – ONE LAYER

Notes:
1. If both options are shown on the plans or noted in the specifications, only one option can be used for each separate ceiling area.
2. Fire-rated systems shall be installed per rated listing (i.e. UL, Factory Mutual, etc.) and manufacturers' instruction, and the rated listing may dictate the optional lateral system used.

5.1 Brace Wire System: Lateral force bracing assemblies shall consist of a compression strut and four (4) #12 gage splayed bracing wires oriented 90 degrees from each other (see IR 25-2.13 Figure 1). Lateral force bracing assemblies shall be spaced, per Table 1 for all values of the component importance factor (Ip) of the ceiling.

TABLE 1 - LATERAL FORCE BRACE ASSEMBLY SPACING

Design Spectral Acceleration Parameter, SDS — Brace Assembly Spacing
Design Spectral Acceleration Parameter, SDS Design Spectral Acceleration Parameter, SDS — **Brace Assembly Spacing Brace** Assembly Spacing

Design Spectral Acceleration Parameter, SDS	**Brace Assembly Spacing**
Less than or equal to 1.15	12'x12' Full building Height
Greater than 1.15 and less than or equal to 1.73	8'x12' for z/h greater than 0.5 12'x12' for z/h less than or equal to 0.5
Greater than 1.73	8'x8' for z/h greater than 0.5 8'x12' for z/h less than or equal to 0.5

Where, as defined in ASCE 7-10, Section 13.3.1:
z = height in structure of point of attachment of ceiling with respect to the base. h = average roof height of the structure with respect to the base.

Where different brace spacing is specified at various stories, the respective ceiling plan shall clearly indicate the brace spacing.

5.1.1 There shall be a brace assembly a distance of not more than one half of the above spacing from each surrounding wall, expansion joint and at the edge of any ceiling vertical offset. For example, where the brace spacing is 8'x12', the distance shall be 4 feet in the direction of the 8 foot spacing and 6 feet in the direction of the 12 foot spacing.

5.1.2 The slope of bracing wires shall not exceed 45 degrees from the plane of the ceiling and shall be taut. Splices in bracing wires are not to be permitted without DSA approval.

5.1.3 Ceiling grid members may be attached to not more than two (2) adjacent walls. Ceiling grid members shall be at least 1 inch free of other walls. If walls run diagonally to ceiling grid system runners, one end of main and cross runners should be free, and a minimum of 1 inch clear of wall.

5.1.4 Suspended ceiling systems with an area of 144 square feet or less, surrounded by walls which connect directly to the structure above, do not require bracing assemblies when attached to at least two adjacent walls and the perimeter walls are designed to carry the ceiling lateral forces.

GYPSUM BOARD CEILING SUSPENSION CONVENTIONAL CONSTRUCTION – ONE LAYER

5.2 Diaphragm System: A suspended gypsum board ceiling may be designed as a horizontal diaphragm to resist its own seismic loads as prescribed in this section. Gypsum board shall not be used in diaphragm ceilings to resist lateral forces imposed by partitions.

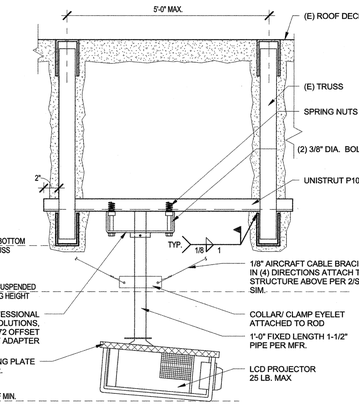
5.2.1 Diaphragm Ratios:
Horizontal 2:1 maximum / Vertical 1:1 maximum

5.2.2 A maximum diaphragm shear equal to 50 lbs/ft is allowed with 1 inch or 1-1/4 inch Hi-Lo Type S, or S-12, bugle head screws at 12 inches o.c. at all gypsum board edges (3/8 inch screw edge distance) and at all intermediate supports. A wall constructed similarly can resist the same shear force provided the gypsum board is on the same side of the studs as the ceiling is, and a positive connection between the ceiling and the wall is detailed. The gypsum board diaphragms are to resist lateral loads due to their own weight and/or the ceiling diaphragm(s) only.

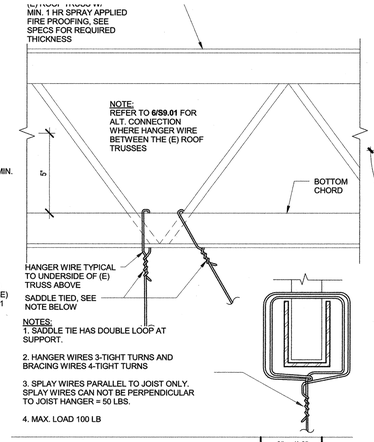
5.2.3 Details are required providing for lateral load transfer from the gypsum board to shear walls, or other lateral load resisting elements, on all four sides of the diaphragm. There shall be no steps or vertical offsets in the ceiling plane.

6. **DSA ACCEPTANCE OF EVALUATION REPORTS:** At the discretion of the DSA, proprietary systems may be accepted under all the following conditions:
· Acceptance will be granted on a project specific basis.
· Proprietary systems must meet the requirements of the CBC.
· Proprietary systems must have valid evaluation reports meeting the provisions of DSA IR A-5.
In accordance with DSA IR A-5, DSA will accept OSHPD Preapproved Details (OPD) "2013 CBC Standard Gypsum Board Ceiling Details for Suspended and Joist Framing Construction."

GYP.BD. CEILING REQUIREMENTS — 6" = 1'-0" — 20

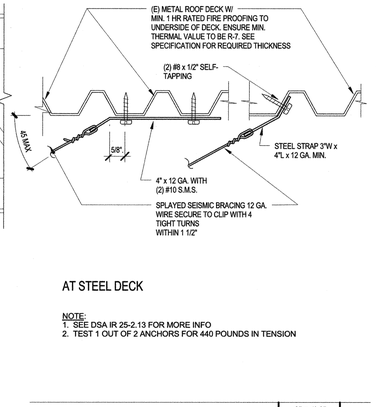


CEILING MOUNTED LCD PROJECTOR — 1 1/2" = 1'-0" — 18



NOTES:
1. SADDLE TIE HAS DOUBLE LOOP AT SUPPORT.
2. HANGER WIRES 3-TIGHT TURNS AND BRACING WIRES 4-TIGHT TURNS
3. SPLAY WIRES PARALLEL TO JOIST ONLY. SPLAY WIRES CAN NOT BE PERPENDICULAR TO JOIST HANGER = 50 LBS.
4. MAX. LOAD 100 LB

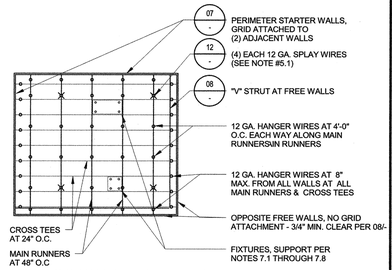
HANGER WIRE @ TRUSS — 3" = 1'-0" — 09



AT STEEL DECK

NOTE:
1. SEE DSA IR 25-2.13 FOR MORE INFO
2. TEST 1 OUT OF 2 ANCHORS FOR 440 POUNDS IN TENSION

SPLAY WIRE CONNECTIONS — 3" = 1'-0" — 10 / AA9.14 — 05



(REFER TO SPECIFICATIONS AND DSA IR-25.2.13 FOR ADDITIONAL INFORMATION)

NOTES:
1. THESE PLANS AND SPECIFICATIONS ARE FOR FLAT AND LEVEL CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING CEILING MOUNTED AIR TERMINALS, SERVICES AND LIGHT FIXTURES, DO NOT EXCEED FOUR (4) P.S.F. HEAVIER SYSTEMS, SYSTEMS THAT ARE NOT FLAT AND LEVEL, AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS WILL REQUIRE SPECIAL DESIGN DETAILS.

2.1 CLASSIFICATION OF CEILING GRID IS: HEAVY DUTY (PER ASTM C635).

TYPICAL ACOUSTICAL CEILING / GRID SYSTEM:
SEE REFLECTED CEILING PLAN & SPECIFICATIONS FOR MANUFACTURER, CEILING TILE, GRID SYSTEM & WALL ANGLE INFORMATION.

2.2 SUSPENSION WIRES SHALL BE #12 GAUGE (0.106" DIAMETER), SOFT ANNEALED, AND GALVANIZED STEEL WIRES WITH CLASS 1 COATING.

2.3 MAIN RUNNERS, CROSS RUNNERS, SPLICES, EXPANSION DEVICES, AND INTERSECTION CONNECTORS SHALL BE DESIGNED TO CARRY A MEAN ULTIMATE TEST LOAD OF NOT LESS THAN 180 LBS. IN COMPRESSION AND TENSION.

3.1 #12 GAUGE (MIN.) HANGER WIRES MAY BE USED FOR UP TO AND INCLUDING 4 FT. BY 4 FT. GRID SPACING AND SHALL BE ATTACHED TO MAIN RUNNERS.

3.2 PROVIDE #12 GAUGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FORTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA. PERIMETER WIRES ARE NOT REQUIRED WHEN THE LENGTH OF THE END TEE IS EIGHT (8) INCHES OR LESS.

3.3 CEILING GRID MEMBERS SHALL BE ATTACHED TO TWO (2) ADJACENT WALLS PER ASTM E580, SECTION 5.2.3. CEILING GRID MEMBERS SHALL BE AT LEAST 3/4 INCH CLEAR OF OTHER WALLS. IF WALLS RUN DIAGONALLY TO CEILING GRID SYSTEM RUNNERS, ONE END OF MAIN AND CROSS RUNNERS SHOULD BE FREE, AND A MINIMUM OF A 3/4" CLEAR OF WALL.

3.4 THE WIDTH OF THE PERIMETER SUPPORTING CLOSURE ANGLE SHALL BE NOT LESS THAN 2 INCHES. GRID SYSTEMS WITH SPECIALTY ANGLES AND SUPPORT CLIPS MAY BE ACCEPTABLE IN ACCORDANCE WITH DSA IR 25-2.13, SECTION 11.

3.5 AT THE PERIMETER OF THE CEILING AREA, WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL SPREADER STRUT OR A #16 GAUGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 8 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.

4.1 EXPANSION JOINTS SHALL BE PROVIDED IN THE CEILING AT INTERSECTIONS OF CORRIDORS AND AT JUNCTIONS OF CORRIDORS AND LOBBIES OR OTHER SIMILAR AREAS.

4.2 FOR CEILING AREAS EXCEEDING 2,500 SQUARE FEET, A SEISMIC SEPARATION JOINT SHALL BE PROVIDED TO DIVIDE THE CEILING INTO AREAS NOT EXCEEDING 2,500 SQUARE FEET.

4.3 PENETRATIONS THROUGH THE CEILING FOR SPRINKLER HEADS AND OTHER SIMILAR DEVICES THAT ARE NOT INTEGRALLY TIED TO THE CEILING SYSTEM IN THE LATERAL DIRECTION SHALL HAVE A TWO (2) INCH OVERSIZED RING, SLEEVE OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FREE MOVEMENT OF ONE (1) INCH IN ALL HORIZONTAL DIRECTIONS.

5.1 PROVIDE LATERAL FORCE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GA. SPLAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER.

5.2 LATERAL FORCE BRACING ASSEMBLIES SHALL BE SPACED AT A MAXIMUM OF 12 FEET BY 12 FEET ON CENTERS. THERE SHALL BE A BRACE ASSEMBLY A DISTANCE OF NOT MORE THAN ONE HALF OF THE ABOVE SPACING FROM EACH SURROUNDING WALL, EXPANSION JOINT AND AT THE EDGES OF ANY CEILING VERTICAL OFFSETS.

5.3 THE SLOPE OF BRACING WIRES SHALL NOT EXCEED 45 DEGREES FROM THE PLANE OF THE CEILING AND WIRES SHALL BE TAUT. SPLICES IN WIRES ARE NOT PERMITTED WITHOUT DSA APPROVAL.

5.4 COMPRESSION STRUTS SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES, AND SHALL NOT BE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB.

6.1 FASTEN #12 HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS IN 3 INCHES. HANGER WIRE LOOPS SHALL BE TIGHTLY WRAPPED AND SHARPLY BENT TO PREVENT ANY VERTICAL MOVEMENT OR ROTATION OF THE MEMBER WITHIN THE LOOPS.

6.2 FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITHIN A DISTANCE OF 1-1/2 INCHES.

6.3 HANGER OR BRACING WIRE ANCHORED TO THE STRUCTURE SHOULD BE INSTALLED IN SUCH A MANNER THAT THE DIRECTION OF THE ANCHOR ALIGNS AS CLOSELY AS POSSIBLE WITH THE DIRECTION OF THE WIRE.

6.4 SEPARATE ALL CEILING HANGER AND BRACING WIRES AT LEAST SIX (6) INCHES FROM ALL UNBRACED DUCTS, PIPES, CONDUIT, ETC.

6.5 HANGER WIRES SHALL NOT ATTACH TO OR BEND AROUND INTERFERING MATERIAL OR EQUIPMENT. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT OBSTRUCTIONS TO TYPICAL HANGER SPACING. PROVIDE ADDITIONAL HANGERS, STRUTS OR BRACES AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS.

6.6 HANGER WIRES THAT ARE MORE THAN 1 (HORIZONTAL) IN 6 (VERTICAL) OUT OF PLUMB SHALL HAVE COUNTER-SLOPING WIRES. PERIMETER HANGER WIRES AT MAIN RUNNERS THAT ARE POSITIVELY ATTACHED TO THE PERIMETER CLOSURE ANGLE, COUNTER-SLOPING IS OPTIONAL.

6.7 ATTACHMENT OF BRACING WIRES TO THE STRUCTURE ABOVE AND TO THE MAIN RUNNERS SHALL BE ADEQUATE FOR THE LOAD IMPOSED. THE WEIGHT (Wp) SHALL BE TAKEN AS NOT LESS THAN 4 PSF FOR CALCULATING SEISMIC FORCES (Fp).

6.8 WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS ARE USED IN REINFORCED CONCRETE FOR HANGER WIRES, 1 OUT OF 10 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 200 POUNDS IN TENSION. WHEN DRILLED-IN CONCRETE ANCHORS ARE USED FOR BRACING WIRES, 1 OUT OF 2 WIRE/ANCHOR ASSEMBLIES MUST BE FIELD TESTED FOR 440 POUNDS IN TENSION IN THE DIRECTION OF THE WIRE. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES.

7.1 CEILING PANELS SHALL NOT SUPPORT ANY LIGHT FIXTURES, AIR TERMINALS OR DEVICES.

7.2 ATTACH ALL LIGHT FIXTURES, CEILING MOUNTED AIR TERMINALS, AND ALL OTHER DEVICES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED. A MINIMUM OF TWO ATTACHMENTS ARE REQUIRED AT EACH LIGHT FIXTURE.

7.3 RECESSED OR DROP-IN LIGHT FIXTURES, GRILLES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING LESS THAN OR EQUAL TO 56 LBS SHALL BE SUPPORTED DIRECTLY ON RUNNERS CLASSIFIED AS ASTM HEAVY DUTY, BUT THEY MUST ALSO HAVE A MINIMUM OF TWO (2) #12 GAUGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE.

7.4 ALL FLUSH OR RECESSED LIGHT FIXTURES, MECHANICAL TERMINALS, AND FLEXIBLE SPRINKLER HOSE FITTINGS OR OTHER SERVICES WEIGHING GREATER THAN 56 LBS. MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAUGE WIRES ATTACHED TO THE HOUSING AND TO THE STRUCTURE ABOVE. THE FOUR (4) TAUT #12 GAUGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

7.5 ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER.

7.6 SURFACE-MOUNTED FIXTURES SHALL BE ATTACHED TO THE MAIN RUNNER WITH AT LEAST TWO POSITIVE CLAMPING DEVICES MADE OF MATERIAL WITH A MINIMUM #14 GAUGE. ROTATIONAL SPRING CATCHES DO NOT COMPLY. A #12 GAUGE SUSPENSION WIRE SHALL BE ATTACHED TO EACH CLAMPING DEVICE TO THE STRUCTURE ABOVE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT. OR LONGER. MAXIMUM SPACING BETWEEN SUPPORTS SHALL NOT EXCEED 8 FEET.

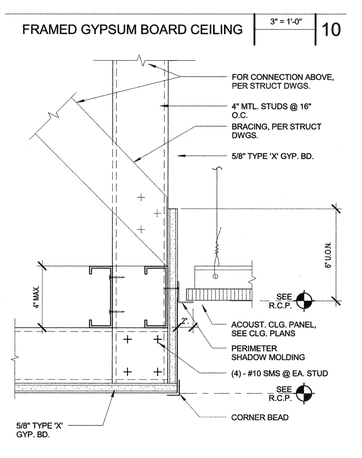
7.7 SUPPORT PENDANT-MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING TWO (2) TIMES THE WEIGHT OF THE FIXTURE.

IF THE PENDANT MOUNTED LIGHT FIXTURE IS DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, I.E. AIRCRAFT CABLES TO WALLS, THEN A BRACE ASSEMBLY IS NOT REQUIRED ABOVE THE CEILING.

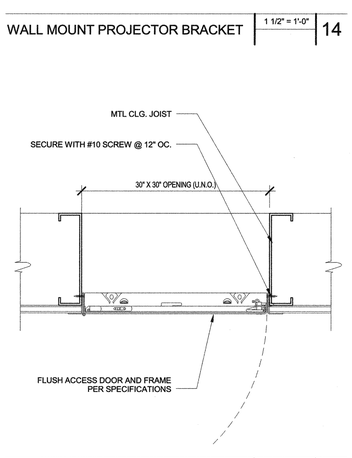
IF THE PENDANT MOUNTED LIGHT FIXTURE IS NOT DIRECTLY AND INDEPENDENTLY BRACED BELOW THE CEILING, THAN A BRACING ASSEMBLY IS REQUIRED WHERE THE PENDANT HANGER PENETRATES THE CEILING. SPECIAL DETAILS ARE REQUIRED TO ATTACH THE PENDANT HANGER TO THE BRACING ASSEMBLY TO TRANSMIT HORIZONTAL FORCE.

7.8 ALL LIGHTWEIGHT MISCELLANEOUS DEVICES, SUCH AS STROBE LIGHTS, SPEAKERS, ETC., SHALL BE ATTACHED TO THE CEILING GRID PER NOTE 7.2. IN ADDITION, DEVICES WEIGHING LESS THAN OR EQUAL TO 20 LBS.. SHALL HAVE A #12 SLACK SAFETY WIRE ANCHORED TO THE STRUCTURE ABOVE. DEVICES WEIGHING MORE THAN 20 LBS. SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE PER NOTE 7.3. OR 7.4

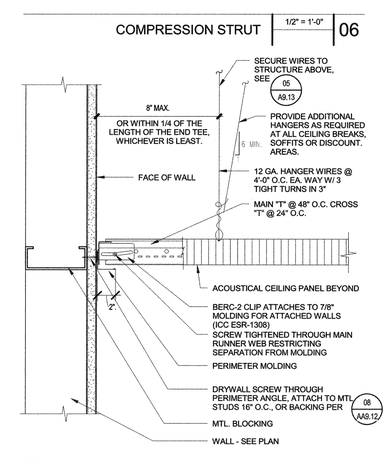
LAY-IN CEILING REQUIREMENTS — 6" = 1'-0" — 04



FRAMED GYPSUM BOARD CEILING — 3" = 1'-0" — 10



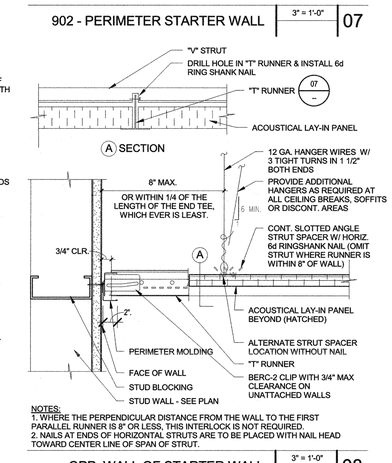
WALL MOUNT PROJECTOR BRACKET — 1 1/2" = 1'-0" — 14



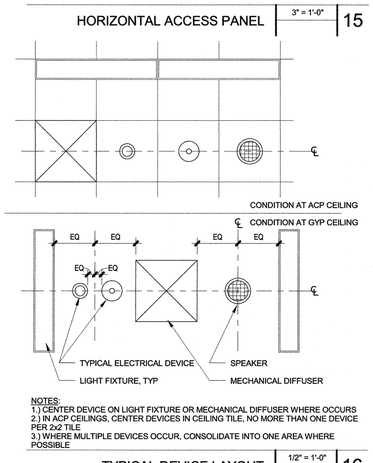
COMPRESSION STRUT SCHEDULE		
MAX LENGTH OF STRUT	STRUT	SSMA DESIGNATION
7'-4"	2 1/2" x 20 GA "C" - STUDS	250S137-33
11'-2"	2 - 2 1/2" x 20 GA "C" - STUDS SEE DET. BELOW	2-250S162-33
16'-6"	2-3 1/2" x 18 GA. "C" - STUD SEE DET. BELOW	2-350S250-43
23'-0"	2-3 1/2" x 16 GA. "C" - STUD SEE DET. BELOW	2-350S250-54

NOTES:
1. COMPRESSION STRUTS SHALL NOT REPLACE HANGER WIRE.
2. CEILING TILE NOT SHOWN FOR CLARITY.

COMPRESSION STRUT — 1/2" = 1'-0" — 06



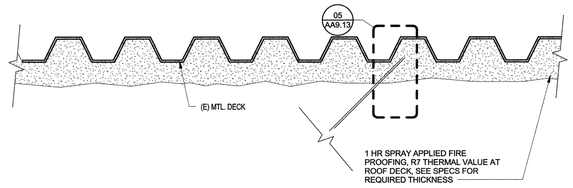
902 - PERIMETER STARTER WALL — 3" = 1'-0" — 07



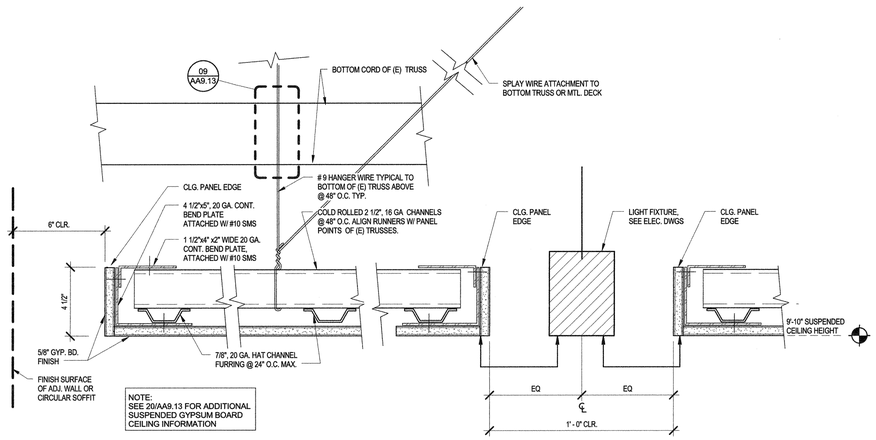
NOTES:
FOR CONNECTIONS OF BRACING & HANGER WIRES TO THE STRUCTURE ABOVE, SEE 09 AA9.13

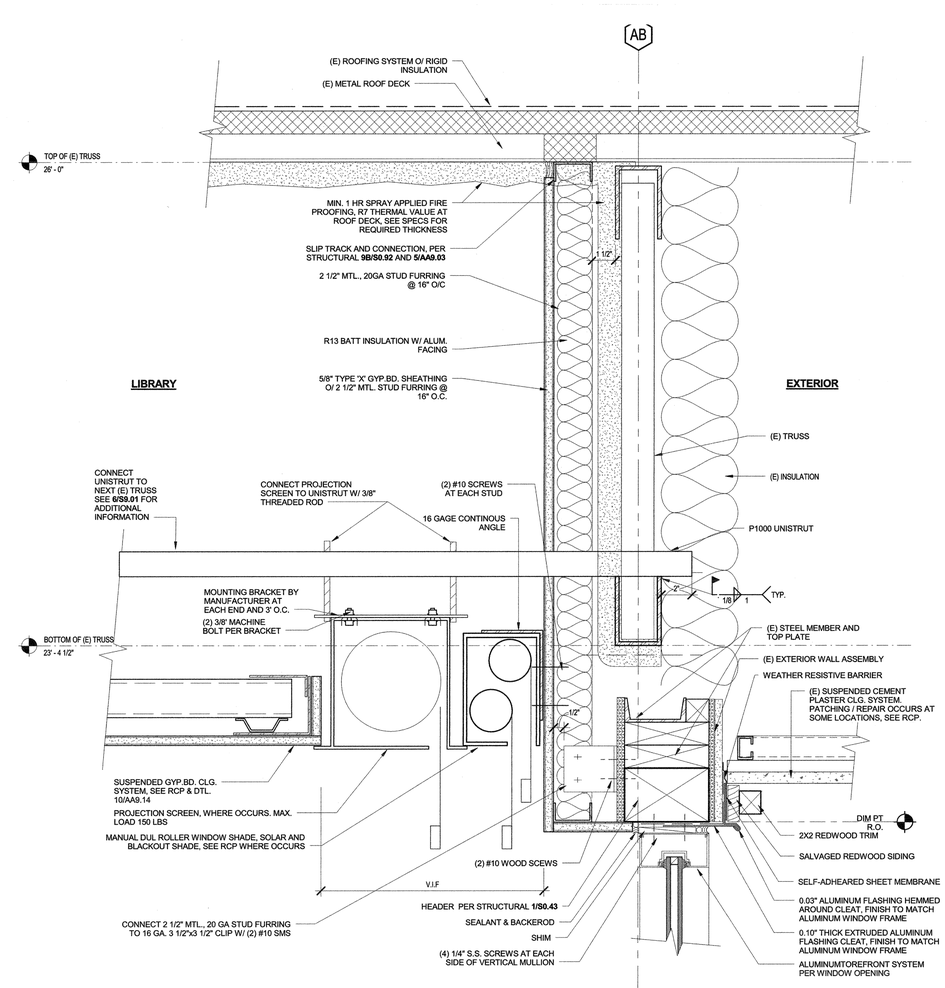
BRACING ASSEMBLY DETAIL — 3" = 1'-0" — 12

"V" STRUT
DRILL HOLE IN "T" RUNNER & INSTALL 6d RING SHANK NAIL
"T" RUNNER 07 -
ACOUSTICAL LAY-IN PANEL
A SECTION
12 GA. HANGER WIRES W/ 3 TIGHT TURNS IN 1 1/2" BOTH ENDS
8" MAX.
OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICH EVER IS LEAST.
6 MIN.
PROVIDE ADDITIONAL HANGERS AS REQUIRED AT ALL CEILING BREAKS, SOFFITS OR DISCONT. AREAS
CONT. SLOTTED ANGLE STRUT SPACER W/ HORIZ. 6d RINGSHANK NAIL (OMIT STRUT WHERE RUNNER IS WITHIN 8" OF WALL)
3/4" CLR.
A
2"
ACOUSTICAL LAY-IN PANEL BEYOND (HATCHED)
ALTERNATE STRUT SPACER LOCATION WIT

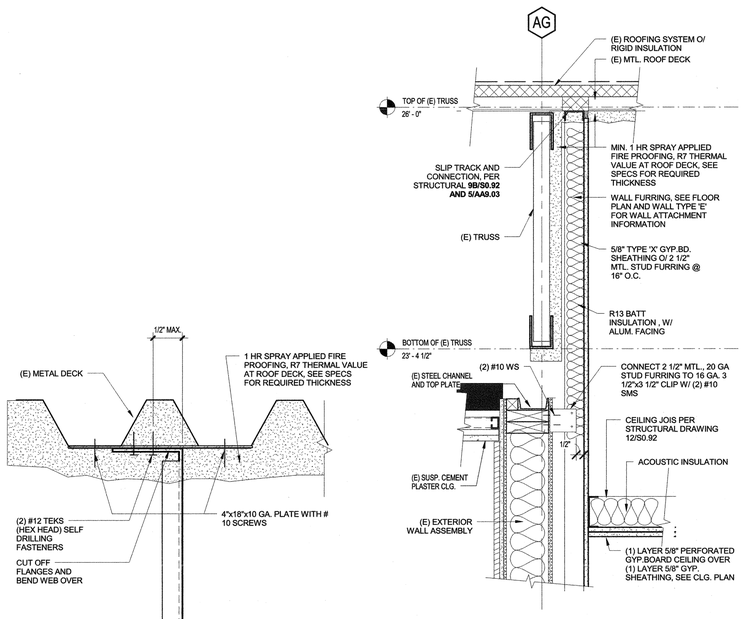


SUSPENDED GYP.BD. CLG. AT STUDENT CENTER - SOUTH | 3" = 1'-0" | 10

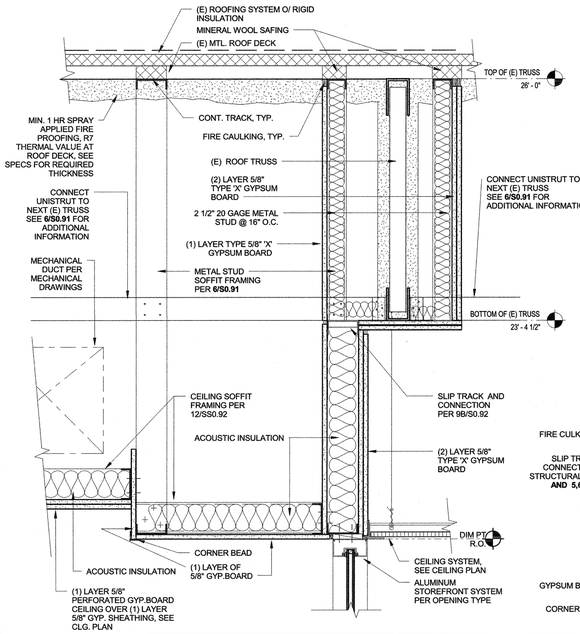




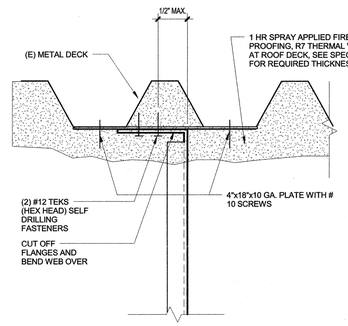
SUSPENDED CLG. DETAIL AT PROJECTION SCREEN | 3" = 1'-0" | 02



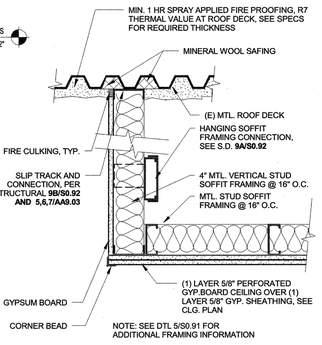
PART. WALL SECTION ALONG GRID 'AG' | 1 1/2" = 1'-0" | 12



GYP.CLG. TRANSITION TO CIRCULAR SOFFIT | 1 1/2" = 1'-0" | 08



COMPRESSION STRUT @ DECK | 3" = 1'-0" | 16



FRAMED GYP. CLG. AT NORTH | 1 1/2" = 1'-0" | 04

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LICENSED ARCHITECT DENISE DUARTE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
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EAST SIDE Union High School District

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REMODEL & SITE IMPROVEMENTS

285 Blossom Hill Road,
San Jose, CA 95123

Developed for
East Side Union High School District

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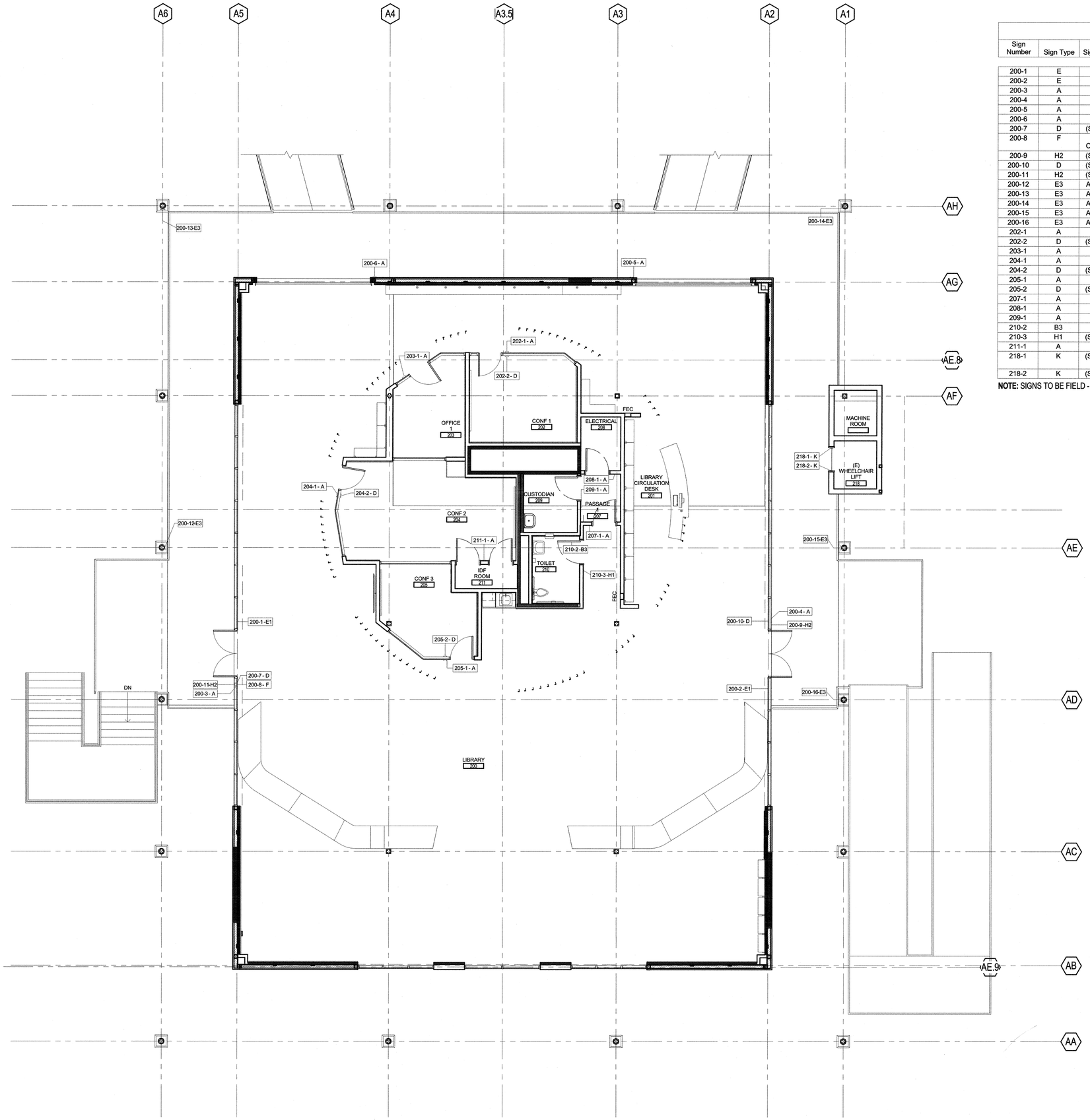


SIGNAGE SCHEDULE - BUILDING A - STUDENT CENTER							
Sign Number	Sign Type	Sign Text Line 1	Sign Text Line 2	Detail Number	Mount. Location	Braille	Comments
200-1	E	N/A	EXIT ROUTE	09/AA10.02	GLASS	Yes	
200-2	E	N/A	EXIT ROUTE	09/AA10.02	GLASS	Yes	
200-3	A	200	STUDENT CENTER	05/AA10.02	GLASS	Yes	
200-4	A	200	STUDENT CENTER	05/AA10.02	GLASS	Yes	
200-5	A	200	STUDENT CENTER	05/AA10.02	WALL	Yes	
200-6	A	200	STUDENT CENTER	05/AA10.02	WALL	Yes	
200-7	D	(SEE DETAIL)	(SEE DETAIL)	08/AA10.02	WALL	No	
200-8	F	MAXIMUM OCCUPANCY	334	17/AA10.02	WALL	No	
200-9	H2	(SEE DETAIL)	(SEE DETAIL)	16/AA10.02	GLASS		
200-10	D	(SEE DETAIL)	(SEE DETAIL)	08/AA10.02	GLASS		
200-11	H2	(SEE DETAIL)	(SEE DETAIL)	16/AA10.02	GLASS		
200-12	E3	ACCESSIBLE	ROUTE	14/AA10.02	COLUMN		
200-13	E3	ACCESSIBLE	ROUTE	14/AA10.02	COLUMN		
200-14	E3	ACCESSIBLE	ROUTE	14/AA10.02	COLUMN		
200-15	E3	ACCESSIBLE	ROUTE	14/AA10.02	COLUMN		
200-16	E3	ACCESSIBLE	ROUTE	14/AA10.02	COLUMN		
202-1	A	202	OFFICE 1	05/AA10.02	GLASS	Yes	
202-2	D	(SEE DETAIL)	(SEE DETAIL)	08/AA10.02	GLASS		
203-1	A	203	CONFERENCE 1	05/AA10.02	GLASS	Yes	
204-1	A	204	CONFERENCE 2	05/AA10.02	GLASS	Yes	
204-2	D	(SEE DETAIL)	(SEE DETAIL)	08/AA10.02	GLASS		
205-1	A	205	CONFERENCE 3	05/AA10.02	GLASS	Yes	
205-2	D	(SEE DETAIL)	(SEE DETAIL)	08/AA10.02	GLASS		
207-1	A	207	PASSAGE 1	05/AA10.02	WALL	Yes	
208-1	A	208	ELECTRICAL	05/AA10.02	WALL	Yes	
209-1	A	209	CUSTODIAN	05/AA10.02	WALL	Yes	
210-2	B3	N/A	N/A	06/AA10.02	DOOR		
210-3	H1	(SEE DETAIL)	(SEE DETAIL)	15/AA10.02	WALL		
211-1	A	216	IDF	05/AA10.02	WALL	Yes	
218-1	K	(SEE DETAIL)	(SEE DETAIL)	24/AA10.02	WALL	Yes	INSTALL SIGN ALSO ON 1ST FLOOR
218-2	K	(SEE DETAIL)	(SEE DETAIL)	24/AA10.02	WALL		

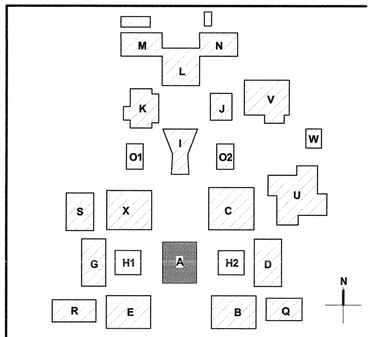
NOTE: SIGNS TO BE FIELD - INSPECTED PER CBC 11B - 703.1.1.2

LEGEND

ROOM NUMBER
SIGN NUMBER
SIGN TYPE
#-##-XX DENOTES SIGNAGE TYPE PER SHEET A10.10

GENERAL NOTES

1. SEE SHEET AA10.02 FOR SIGNAGE DETAILS AND SIGNAGE TYPES.
2. VERIFY SIGN TEXT, COLOR, AND GRAPHICS WITH ARCHITECT PRIOR TO FABRICATION.
3. FOR INFORMATION REGARDING SIGN MATERIAL, COLOR, LETTERING TYPEFACE, SHOP DRAWINGS AND MOCK-UPS, RE: SPECIFICATION SECTION 10 1400 - SIGNAGE.
4. FOR SIGNS PLACED ONE BELOW ANOTHER, CENTER THE SIGNS.



KEY PLAN

BUILDING A - SECOND FLOOR SIGNAGE PLAN | 3/16" = 1'-0" | 08

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REN
C 31486
12-31-2017
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC FLS SS
DATE FEB 0 2 2017
FILE NUMBER: 43-H10

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Developed for
East Side Union High School District

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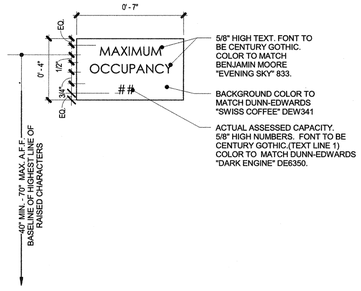
Revision	Date

Submittal	Date
100% SCHEMATIC DESIGN	3/14/2016
100% DESIGN DEVELOPMENT	5/16/2016
50% CD ESTIMATE	6/8/2016
85% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
BID SET	11/25/2017
DSA APPROVAL	02/02/2017

Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

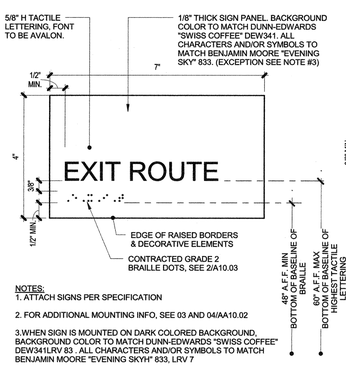
SIGNAGE PLAN

AA10.01



NOTES:
1. ATTACH SIGNS PER SPECIFICATION
2. PER CBC 11B-703.5 TABLE 30B

SIGN TYPE F - MAX. OCC. SIGN | 3" = 1'-0" | 17



NOTES:
1. ATTACH SIGNS PER SPECIFICATION

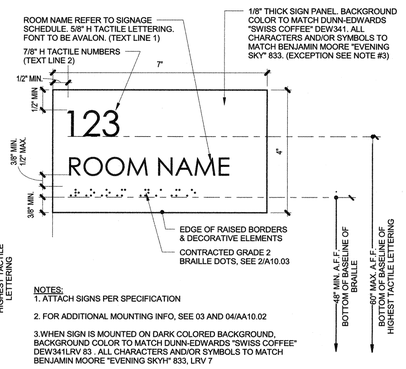
2. FOR ADDITIONAL MOUNTING INFO, SEE 03 AND 04/AA10.02

3.WHEN SIGN IS MOUNTED ON DARK COLORED BACKGROUND, BACKGROUND COLOR TO MATCH DUNN-EDWARDS "SWISS COFFEE" DEW341LRV 83 . ALL CHARACTERS AND/OR SYMBOLS TO MATCH BENJAMIN MOORE "EVENING SKYH" 833, LRV 7

4. CONTRAST RATIO CALCULATION: $\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

5. PLACE AT INTERIOR (ROOM) SIDE OF DORR OPENING TO A CORRIDOR OR HALLYWAY WHERE ILLUMINATED EXIT SIGN IS PROVIDED.

SIGN TYPE E - EXIT ROUTE | 6" = 1'-0" | 09



NOTES:
1. ATTACH SIGNS PER SPECIFICATION

2. FOR ADDITIONAL MOUNTING INFO, SEE 03 AND 04/AA10.02

3.WHEN SIGN IS MOUNTED ON DARK COLORED BACKGROUND, BACKGROUND COLOR TO MATCH DUNN-EDWARDS "SWISS COFFEE" DEW341LRV 83 . ALL CHARACTERS AND/OR SYMBOLS TO MATCH BENJAMIN MOORE "EVENING SKYH" 833, LRV 7

4. CONTRAST RATIO CALCULATION: $\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

SIGN TYPE A - ROOM LABEL | 6" = 1'-0" | 05

1. RAISED CHARACTER: CHARACTERS ON SIGNS SHALL BE RAISED 1/32 INCH (0.8MM) MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY CALIFORNIA CONTRACTED (GRADE 2) BRAILLE. PER CBC 11B-703.2, 11B-703.3

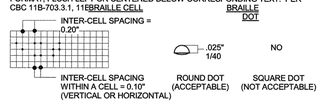
2. RAISED CHARACTER HEIGHT: CHARACTERS SHALL BE A MINIMUM OF 5/8 INCH (15.9MM) AND A MAXIMUM OF 2 INCHES (51MM) HIGH BASED ON HEIGHT OF UPPERCASE LETTER "I". PER CBC 11B-703.2.5

3. RAISED CHARACTER PROPORTION: CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 15% MAXIMUM OF THE HEIGHT OF THE CHARACTER. PER CBC 11B-703.2.4, 11B-703.2.6

4. VISUAL CHARACTER HEIGHT: PER CBC 11B-703.5.5 BASED ON HEIGHT OF UPPERCASE LETTER "I", UNLESS "EXCEPTION" IS USED.

5. VISUAL CHARACTERS PROPORTION: CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MINIMUM AND 110% MAXIMUM OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE LETTER "I" SHALL BE 10% MINIMUM AND 20% MAXIMUM OF THE HEIGHT OF THE CHARACTER. PER CBC 11B-703.5.4, 11B-703.5.7

6. BRAILLE: CALIFORNIA CONTRACTED (GRADE 2) BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. DISTANCE BETWEEN TWO DOTS SHALL BE 0.100 OF AN INCH (2.5MM) ON CENTER IN SAME CELL. DOTS SHALL BE RAISED A MINIMUM OF 0.025 OF AN INCH (0.6MM) TO A MAXIMUM OF 0.037 OF AN INCH (0.9MM) ABOVE BACKGROUND. DOTS SHALL BE ROUNDED OR DOMED CALIFORNIA BRAILLE DOTS, EACH DISTINCT AND SEPARATE. BRAILLE SHALL BE IN HORIZONTAL FORMAT, FLUSH LEFT OR CENTERED BELOW CORRESPONDING TEXT. PER CBC 11B-703.3.1, 11B



7. PICTOGRAMS: SHALL HAVE A FIELD HEIGHT OF 6 INCHES MINIMUM. CHARACTERS AND BRAILLE SHALL NOT BE LOCATED IN THE PICTOGRAM FIELD AND SHALL BE LOCATED DIRECTLY BELOW PICTOGRAM FIELD. PER CBC 11B-703.6

8. FINISH AND CONTRAST: CHARACTERS / PICTOGRAMS / SYMBOLS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS / PICTOGRAMS / SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND LIGHT OVER DARK FIELD, OR, DARK OVER LIGHT FIELD. PER CBC 11B-703.5.1, 11B-703.6.2, 11B-703.7.1

9. PROVIDE TACTILE EXIT SIGNS AT EACH DOOR SERVING OCCUPANT LOAD OF 50 OR MORE, PER CBC 1011.4 AND AS INDICATED IN DRAWINGS.

10. LOCATION OF TACTILE SIGNS AT DOORS PER CBC 11B-703.4.2 AND AS INDICATED IN DETAILS.

11. MOUNTING HEIGHT PER CBC 11B-703.4, 11B-703.5 "EXCEPTION", 11B-703.5.6, 11B-703.7 AND AS INDICATED IN DETAILS.

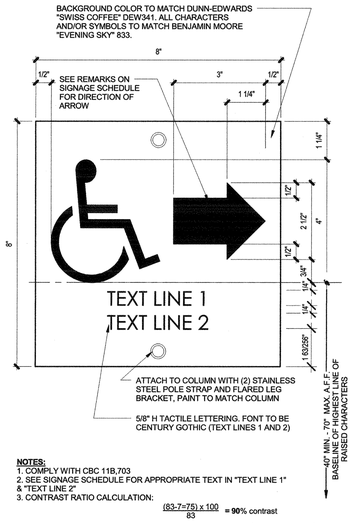
12. EASE ALL EDGES AND CORNERS OF SIGNS.

ACCESSIBLE SIGNAGE NOTES | 1/2" = 1'-0" | 02

NOTES:
1. FASTEN SIGNS TO WALL W/ CONCEALED FASTENERS.

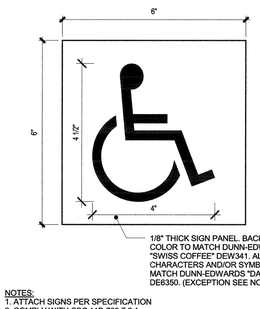
2. AT ELEVATOR PROVIDE (2) SIGNS, ONE ON BOTH SIDES OF JAMB.

SIGN TYPE K - ELEVATOR LEVEL | 6" = 1'-0" | 23



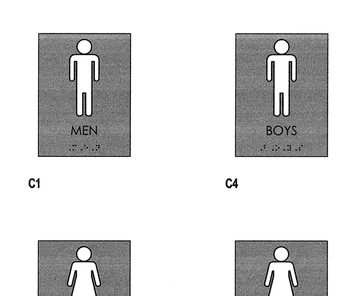
NOTES:
1. COMPLY WITH CBC 11B,703
2. SEE SIGNAGE SCHEDULE FOR APPROPRIATE TEXT IN "TEXT LINE 1" & "TEXT LINE 2"
3. CONTRAST RATIO CALCULATION: $\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

SIGN TYPE E3 - ACC. ROUTE DIRECTION | 6" = 1'-0" | 14



NOTES:
1. ATTACH SIGNS PER SPECIFICATION
2. COMPLY WITH CBC 11B-703.7.2.1
3. CONTRAST RATIO CALCULATION: $\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

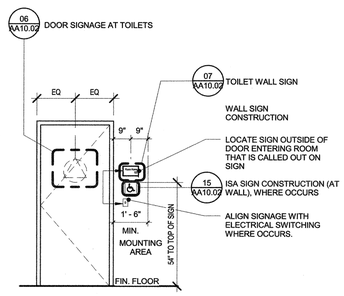
SIGN TYPE H1 - ISA SIGN @ WALL | 6" = 1'-0" | 15



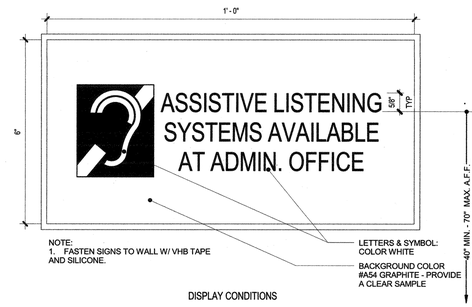
NOTES:
1. FASTEN SIGNS TO WALL W / TEMPER RESISTANT STAINLESS STL. FASTENERS.
2. PER CBC 11B-703.4
3. CONTRAST RATIO CALCULATION:

$\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

SIGN TYPE C - TOILET ROOM WALL | 3" = 1'-0" | 07



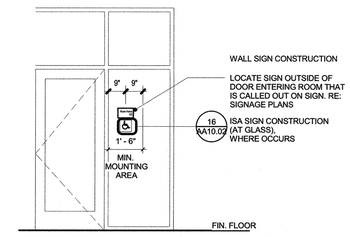
SIGNAGE MOUNTING @ WALL | 3/8" = 1'-0" | 03



NOTE:
1. FASTEN SIGNS TO WALL W/ VHB TAPE AND SILICONE.

DISPLAY CONDITIONS

SIGN TYPE D - ASSISTIVE LISTENING SYSTEMS SIGNAGE | 6" = 1'-0" | 08

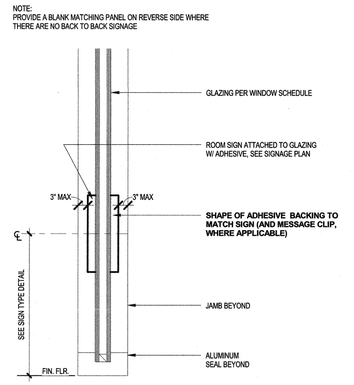


NOTES:
1. MOUNT SIGNS ON WALLS AND/OR SIDELEGHTS ADJACENT TO DOORS REQUIRING IDENTIFICATION TO OBTAIN CERTIFICATE OF OCCUPANCY. WHERE SIGNAGE OCCURS ON GLAZING, THERE ARE NO WINDOW SHADES AT SAME LOCATION

2. WHERE APPLICABLE, SIGNS MOUNTED ON SIDELIGHTS OR GLAZING SHALL HAVE AN LTV VINYL BACKER (EXCEPT IN SPACES WITH ILLUMINATED EXIT SIGNAGE, CUT TO SAME SIZE AS SIGN, MOUNTED TO OPPOSITE SIDE OF GLASS TO OBSCURE BACK SIDE OF SIGN. COLOR TO MATCH SIGN. FASTEN SIGN WITH VHB TAPE AND SILICONE

3. EXIT SIGNS SHALL BE MOUNTED BACK TO BACK AT SIDELIGHT CONDITIONS, TO CONCEAL VHB TAPE AND SILICONE MOUNTING.

SIGNAGE MOUNTING ON GLASS | 3/8" = 1'-0" | 04



SIGN ATTACHMENT @ GLAZING | 3" = 1'-0" | 20

NOTES:

1. SEE 4/AA10.02 & 20/AA10.02 FOR ADDITIONAL INFO.

2. CONTRAST RATIO CALCULATION: $\frac{(83\text{-}7=75) \times 100}{83}$ = **90**% contrast

SIGN TYPE H2 - ISA SIGN @ GLASS | 6" = 1'-0" | 16

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

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12-31-2017
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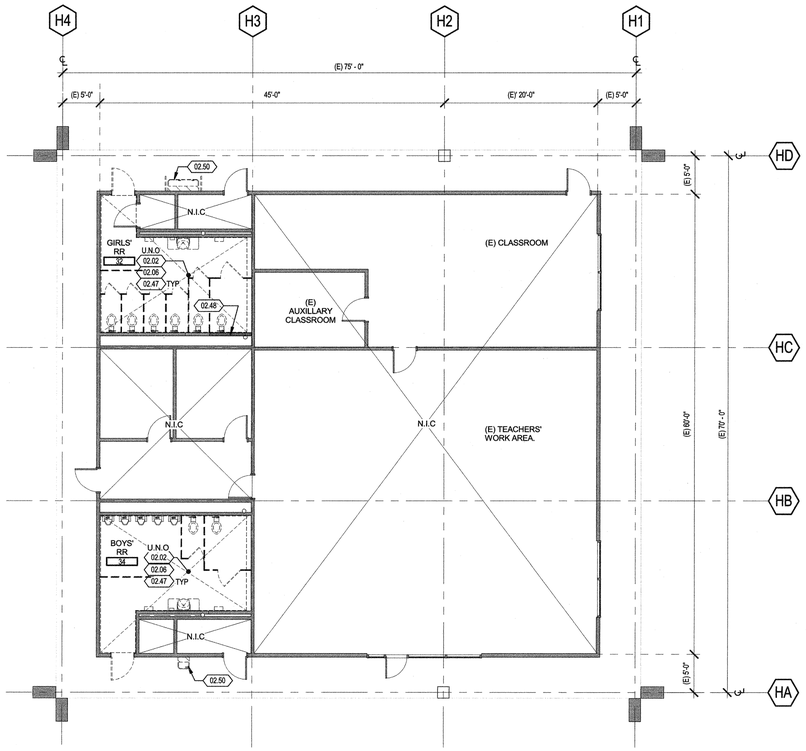
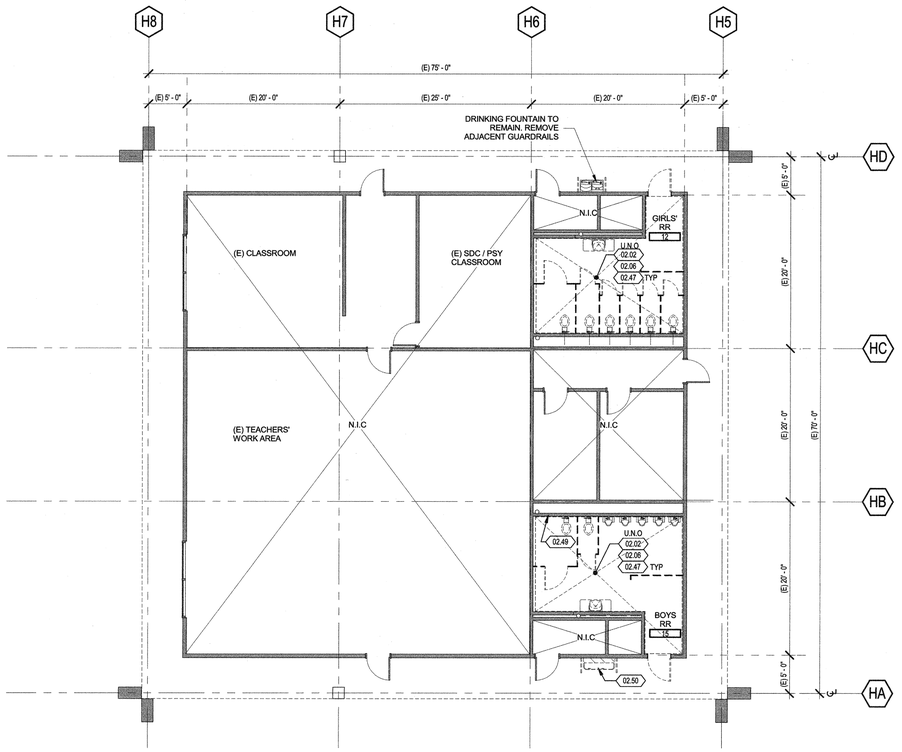
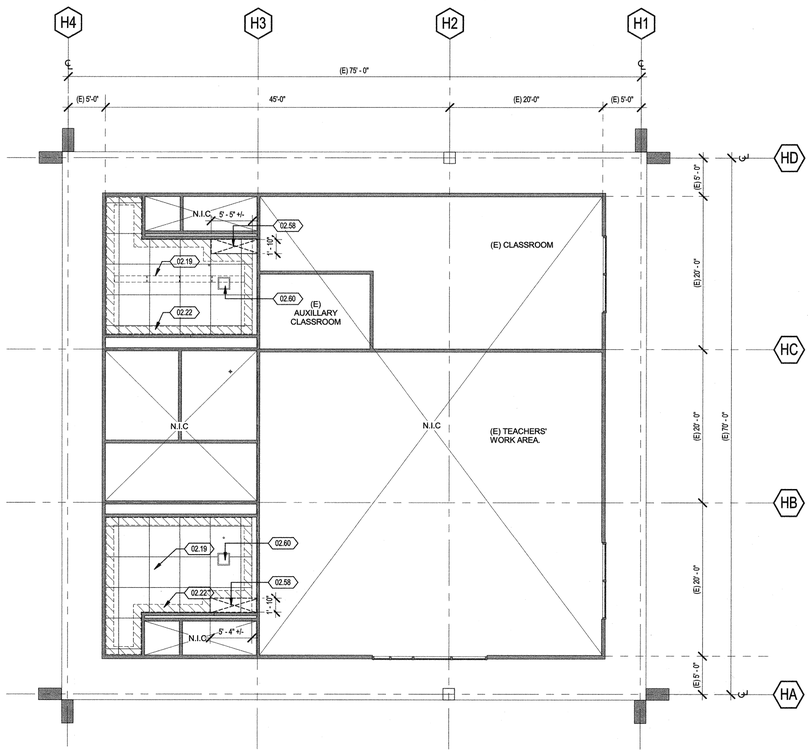


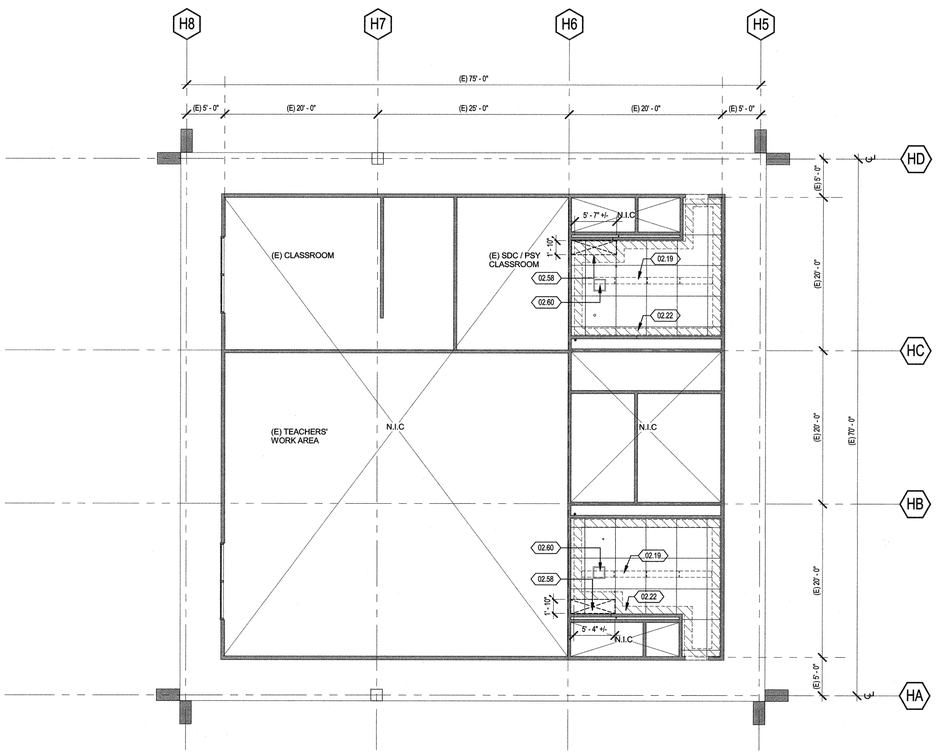
BLDG H1 DEMO PLAN 1/8" = 1'-0" 14



BLDG H2 DEMO PLAN 1/8" = 1'-0" 06



BLDG H1 DEMO REFELCTED CEILING PLAN 1/8" = 1'-0" 16



BLDG H2 DEMO REFLECTED CEILING PLAN 1/8" = 1'-0" 08

KEYNOTES

02.02	REMOVE (E) FLOOR FINISH AND PREPARE CONC FOR FLOOR FINISH INSTALLATION.
02.06	REMOVE ALL (E) INTERIOR WALL FINISHES AND (E) INTERIOR STRUCTURAL SHEATHING TO FACE OF (E) STUD.
02.19	REMOVE (E) LIGHT FIXTURE
02.22	REMOVE PORTION OF (E) SUSPENDED ACOUSTICAL CLG T-BAR GRID AROUND PERIMETER AS NECESSARY.
02.47	REMOVE ALL (E) PLUMBING FIXTURES.
02.48	(E) WALL FRAMING TO BE MODIFIED AS REQUIRED TO ACCOMMODATE PLUMBING CONNECTION.
02.49	LOCATE PLUMBING TO AVOID (E) FRAMING. WHERE (N) PIPE CONFLICTS W/ (E) NON-BEARING WALL STUDS, BLOCK UP PER DTL 13/AH9.01.
02.50	REMOVE (E) DRINKING FOUNTAINS ALONG W/ ASSOCIATED GUARDRAILS. REMOVE (E) EXTERIOR FINISHES AND (E) SHEATHING UP TO F.O.S. AS REQUIRED FOR INSTALLATION OF DRINKING FOUNTAIN AND GUARDRAILS.
02.58	REMOVE PORTION OF (E) T-BAR GRID TO ACCOMMODATE NEW WALLS. REPAIR DAMAGED EDGES OF EXISTING GRID.
02.60	REMOVE (E) EXHAUST VENTS AND SAVE FOR REUSE

DEMOLITION PLAN LEGEND

- (E) STUD WALL TO REMAIN
- (E) DOOR TO REMAIN.
- (E) NON LOAD BEARING WALL TO BE DEMOLISHED
- (E) DOOR TO BE REMOVED.
- (E) ITEM TO BE DEMOLISHED.
- (E) ITEM TO BE DEMOLISHED.

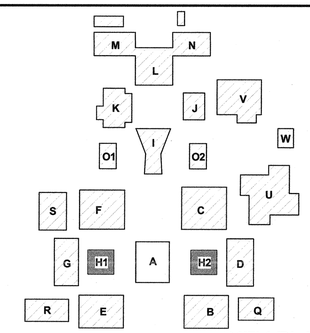
DEMO PLAN GENERAL NOTES

THIS APPLIES TO AREA OF WORK IN BLDG. H1 & H2 ONLY:

1. REMOVE ALL INTERIOR WALL FINISHES TO FACE OF (E) STUD.
2. REMOVE FLOOR FINISH TO (E) CONC. SLAB. PREPARE FOR FLOOR SYSTEM APPLICATION.
3. REMOVE ALL (E) TOILET PARTITIONS & (E) ACCESSORIES.
4. REMOVE (E) LIGHTS, (E) FIRE ALARM, (E) PLUMBING FIXTURES, FLOOR DRAIN STRAINERS ... SEE DWGS OF OTHER DISCIPLINES FOR ADDITIONAL INFORMATION.
5. REMOVE PORTION OF (E) T-BAR GRID SYSTEM, AS NEEDED. IF (E) T-BAR GRID GETS DAMAGED AS PART OF WALL FINISH DEMOLITION SCOPE, REMOVE DAMAGED PORTION.
6. REMOVE (E) T-BAR LAY IN PANELS. REPAIR (E) T-BAR GRID AROUND PERIMETER AS DAMAGE MAY OCCUR DURING DEMO SCOPE. PROTECT (E) CLG GRID IN PLACE.
7. REMOVE (E) DOOR SIGNAGE AT RESTROOMS IN SCOPE.
8. REMOVE ALL (E) FLOOR DRAIN STRAINERS. FLOOR DRAIN BODY TO REMAIN, PROTECT DURING CONSTRUCTION. REMOVE ALL (E) FLOOR CLEANOUT COVERS. CLEANOUTS TO REMAIN IN PLACE, PROTECT DURING CONSTRUCTION. FLOOR DRAINS AND SEWER LINES TO BE POWER-JETTED CLEAN.
9. FOR INSTALLATION OF DRINKING FOUNTAIN, REMOVE REQUIRED (E) REDWOOD SIDING IN FULL BOARDS AND RESERVE. REMOVE PORTION OF (E) EXTERIOR FINISHES AND SHEATHING AS REQUIRED, UP TO FACE OF STUD.

THE INTENT OF THIS DRAWING IS TO DESCRIBE IN GENERAL THE DEMOLITION AREAS AFFECTED BY THE PROJECT CONSTRUCTION. IT IS NOT INTENDED AS A DETAILED DESCRIPTION OF EXISTING ITEMS OR ELEMENTS TO BE REMOVED. THE CONTRACTOR SHOULD VISIT THE SITE AND REVIEW ANY AVAILABLE RECORD DOCUMENTS TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND INCLUDE THE REMOVAL OF ALL ITEMS NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF WORK. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY. AND WHAT IS REQUIRED BY ONE SHALL BE BINDING AS IF REQUIRED BY ALL TO THE EXTENT THAT IT IS REASONABLY INFERABLE FROM THEM AS BEING NECESSARY TO PRODUCE THE INTENDED RESULTS.

KEYPLAN



KEY PLAN

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LICENSED ARCHITECT Ben Lukaszewski REN. 11/30/17 STATE OF CALIFORNIA

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AC ___ FLS ___ SS WF
DATE FEB 0 2 2017
FILE NUMBER:43-H10

EAST SIDE Union High School District

OAK GROVE HIGH SCHOOL Student Center, H1 & H2 Upgrades and Quads

285 Blossom Hill Road, San Jose, CA 95123

Developed for East Side Union High School District

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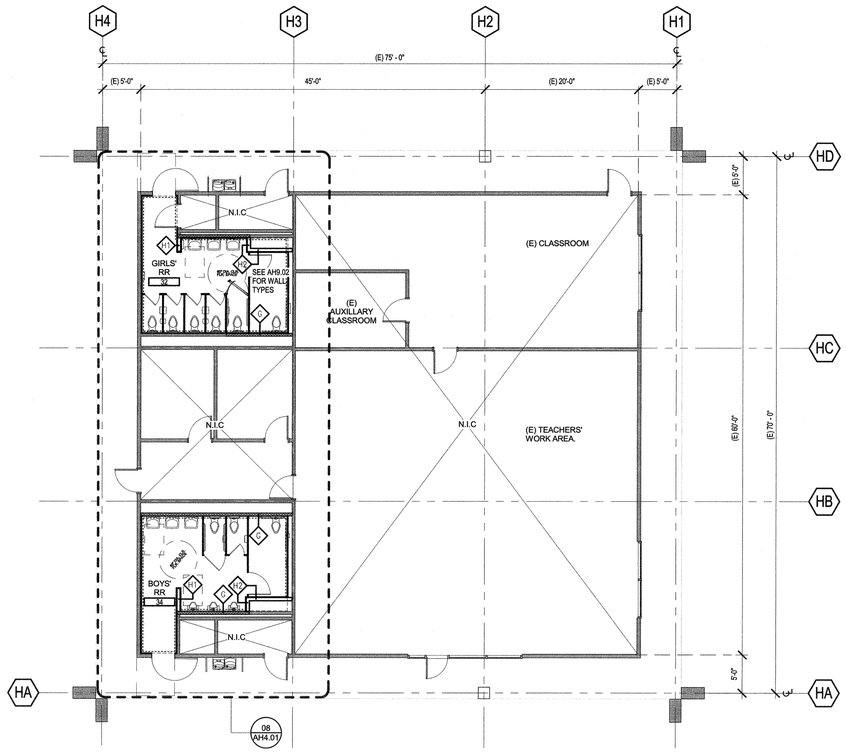
Revision	Date

Submittal	Date
SCHEMATIC DESIGN	08/31/15
DESIGN DEVELOPMENT	01/29/16
85% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
DSA APPROVAL	02/02/2017

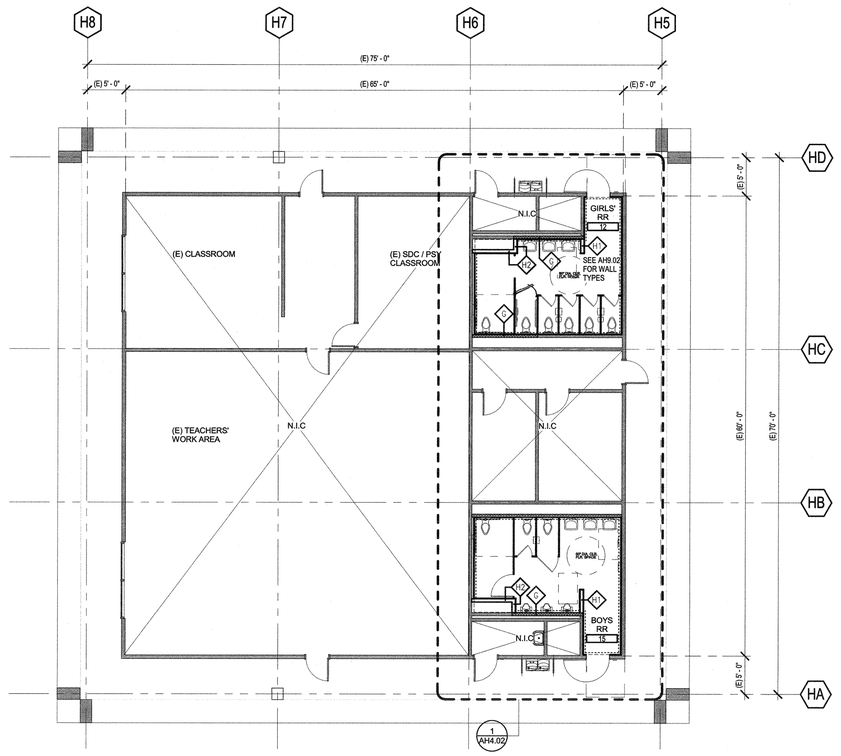
Job. No.	1524810
Date	02/02/2017
Checked by	Checker
Scale	1/8" = 1'-0"

BLDGS. H1 & H2 DEMO, FLOOR & CEILING PLANS

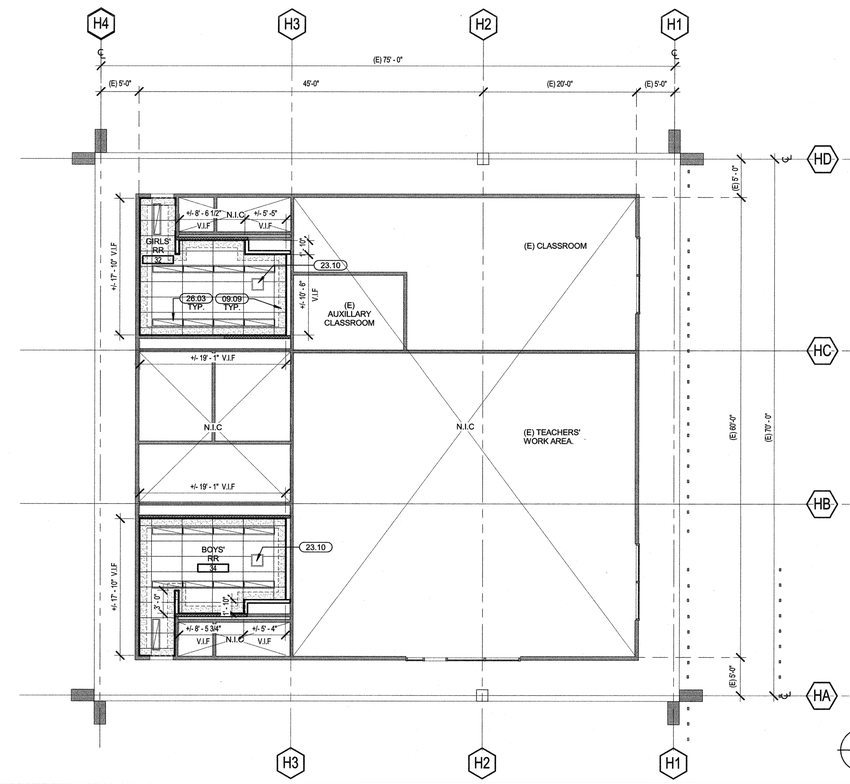
AH1.01



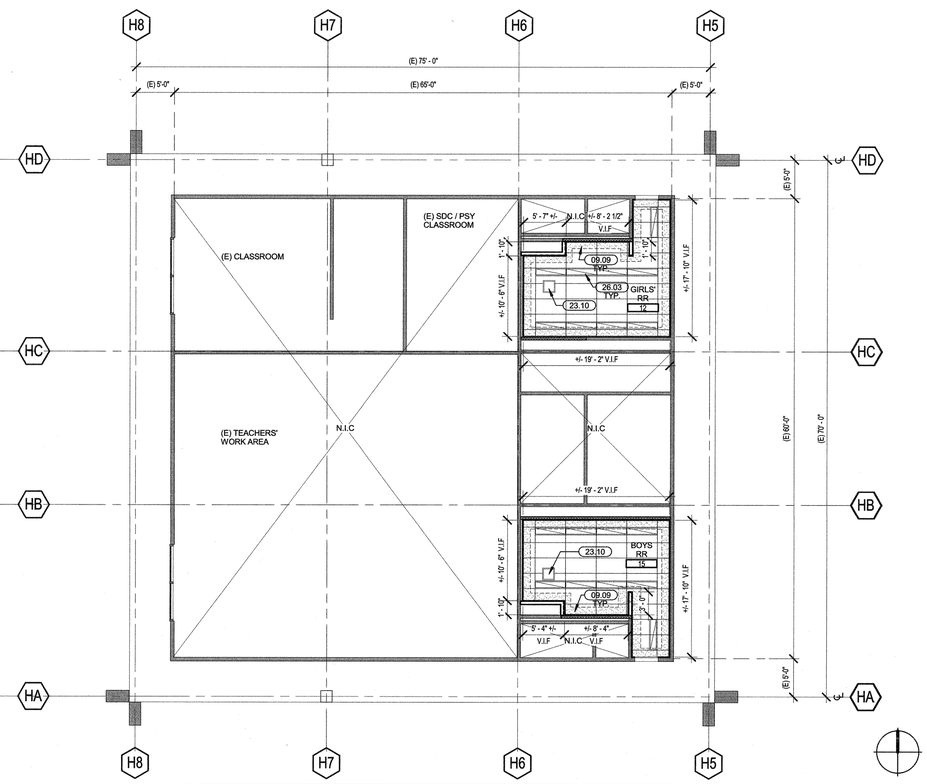
BLDG H1 RECONSTRUCTION FLOOR PLAN | 1/8" = 1'-0" | 14



BLDG H2 RECONSTRUCTION FLOOR PLAN | 1/8" = 1'-0" | 2



BLDG H1 REFLECTED CEILING PLAN | 1/8" = 1'-0" | 1



BLDG H2 REFLECTED CEILING PLAN | 1/8" = 1'-0" | 08

KEYNOTES

09.09	REPAIR/ PATCH EDGE OF CEILING GRIDS WHERE DAMAGE OCCURS DUE TO DEMOLITION.
23.10	REINSTALL EXHAUST VENTS
26.03	LIGHT FIXTURE, SEE ELECTRICAL DWGS

RECONSTRUCTION PLAN LEGEND

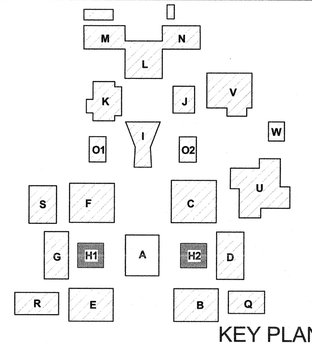
- EXISTING WALL FRAMING TO REMAIN
- WALL AT PLUMBING CONNECTION. (E) FRAMING REQUIRES SOME ADJUSTMENT TO ACCOMODATE PLUMBING FIXTURES OR RELOCATED PLUMBING FIXTURES.
- HOLLOW METAL DOOR, RE: AH4.02 FOR SCHEDULE AND ELEVATIONS
- DENOTES WALL TYPE - REFER TO SHEET AA9.01
- ALIGN FINISHES
- 2 X 4 ACOUSTICAL TILE CEILING. ADD ADDITIONAL CROSS BAR MEMBERS TO (E) T-BAR CLG.
- APPROX AREA OF T-BAR GRID REPAIR.
- APPLY CERAMIC TILE SYSTEM OVER (E) WALL FRAMING TO UNDERSIDE OF T-BAR CLG. SEE SPECIFICATIONS.
- 1/4 RECESSED LIGHT FIXTURE. SEE ELECTRICAL DWGS.

GENERAL NOTES

THIS APPLIES TO AREA OF WORK IN BLDG. H1 & H2 ONLY :

1. INSTALL LIGHTS, FIRE ALARM, ... SEE DWGS OF OTHER DISCIPLINES FOR ADDITIONAL INFORMATION.
2. MODIFY (E) 4X4 GRID TO A 2X4 GRID W/ ADDITIONAL T-BAR MEMBER TO MATCH (E) SYSTEM.
3. INSTALL T-BAR 'LAY IN' CEILING TILES.
4. REPLACE (E) FLOOR DRAIN STRAINERS WITH NEW HEEL PROOF, LIGHT - DUTY NICKEL BRONZE STRAINER. REPLACE (E) FLOOR CLEANOUT COVERS WITH NEW NICKEL BRONZE CLEANOUT COVERS.

KEYPLAN



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IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC ___ FLS ___ SS ___
DATE ___
FILE NUMBER:43-H10

EAST SIDE Union High School District

OAK GROVE HIGH SCHOOL Student Center, H1 & H2 Upgrades and Quads

285 Blosom Hill Road, San Jose, CA 95123

Developed for East Side Union High School District

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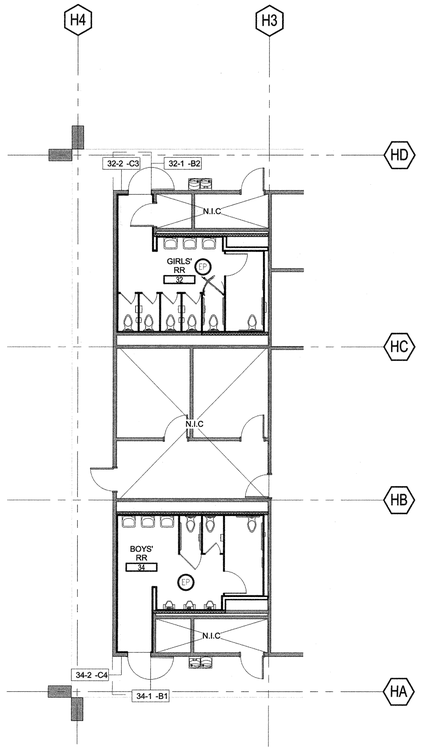
BLDGS. H1 & H2 FLOOR & CEILING PLANS

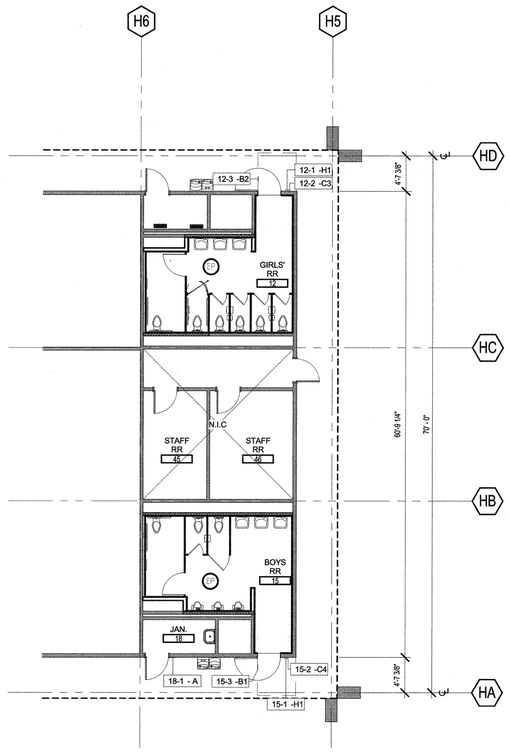
AH2.01



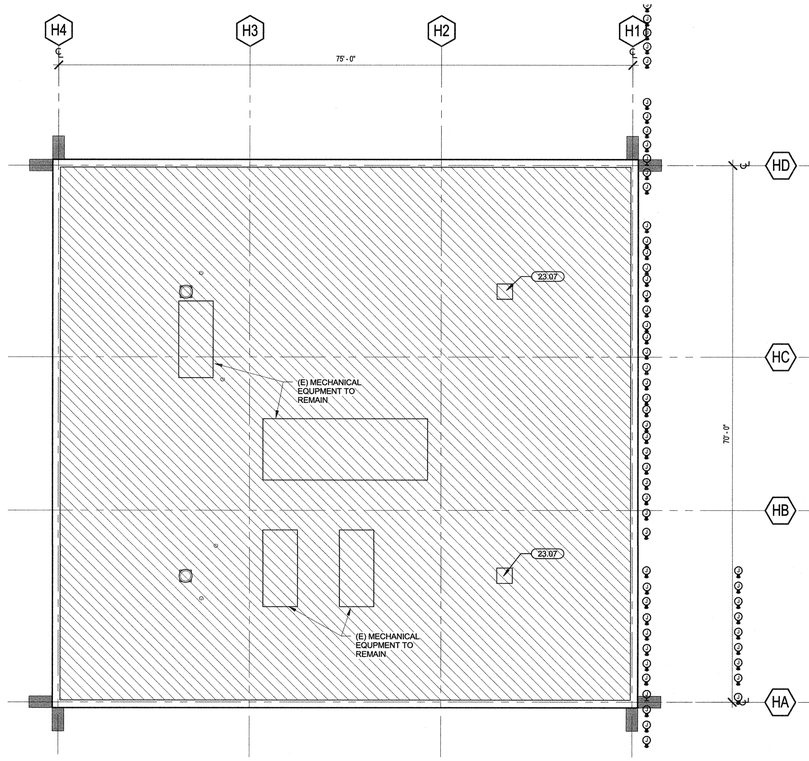
BLDG H1 FINISH & SIGNAGE PLAN | 1/8" = 1'-0" | 14

SIGNAGE SCHEDULE

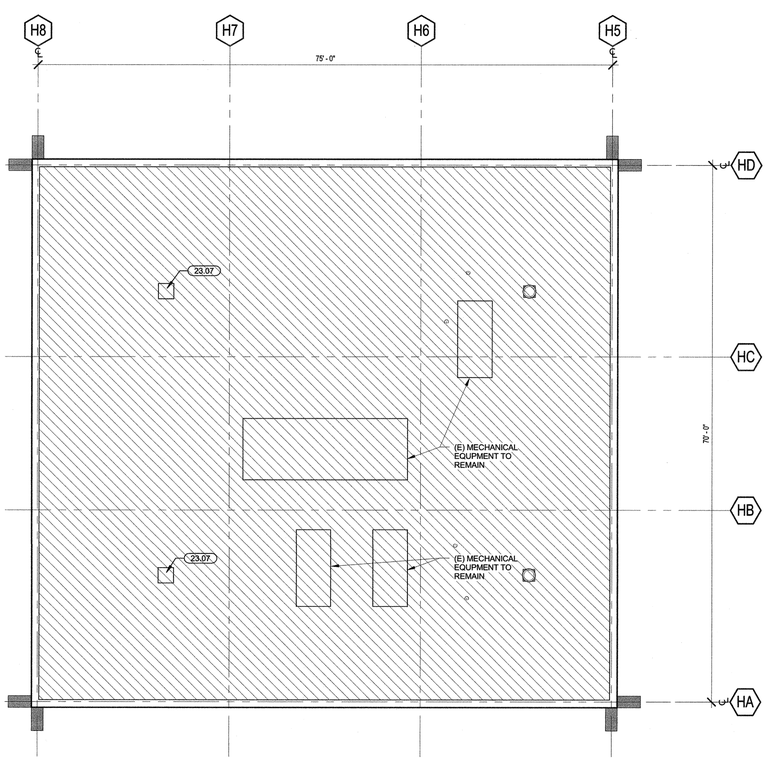
Sign Number	Sign Type	Sign Text Line 1	Sign Text Line 2	Detail Number	Mount. Location	Braille	Remarks
12-1	H1	(SEE DETAIL)	(SEE DETAIL)	15/AA10.02	WALL		
12-2	C5	N/A	GIRLS	07/AA10.02	WALL	Yes	
12-3	B2	N/A	N/A	06/AA10.02	DOOR		
15-1	H1	(SEE DETAIL)	(SEE DETAIL)	15/AA10.02	WALL		
15-2	C4	N/A	BOYS	07/AA10.02	WALL	Yes	
15-3	B1	N/A	N/A	06/AA10.02	DOOR		
18-1	A		CUSTODIAN	05/AA10.02	WALL	Yes	
32-1	B2	N/A	N/A	06/AA10.02	DOOR		
32-2	C5	N/A	GIRLS	07/AA10.02	WALL	Yes	
34-1	B1	N/A	N/A	06/AA10.02	DOOR		
34-2	C4	N/A	BOYS	07/AA10.02	WALL	Yes	



BLDG H2 FINISH & SIGNAGE PLAN | 1/8" = 1'-0" | 06



BLDG H1 ROOF PLAN | 1/8" = 1'-0" | 16



BLDG H2 ROOF PLAN | 1/8" = 1'-0" | 1

KEYNOTES

23.07	REPLACE EXHAUST FAN ON (E) CURB, SEE MECHANICAL DWGS. RE-CONNECT ELECTRIC.

LEGEND

- EPOXY FLOORING, MFR: TERA LITE, TERA-GEM III DQ DOLO, COLOR: GRAY WITH CLEAR SEAL, TEXTURE: FLINTSHOT
- P1 — PAINT (FIELD): MFR: DUNN EDWARDS, COLOR: XXXX
- C11 — CERAMIC WALL TILE (FIELD), MFR: DALTILE, 3X6 RITTENHOUSE SQUARE COLOR: ARCTIC WHITE
- B1 — 4" RUBBER BASE, MFR: BURKE TYPE TS, UNI-COLOR: 523 BLACKBROWN
- B2 — 6" INTEGRAL EPOXY COVE BASE, MFR: TERA LITE, TERA-GEM III DQ DOLO, COLOR: GRAY WITH CLEAR SEAL, TEXTURE: FLINTSHOT
- ALIGN FINISHES

SIGNAGE LEGEND

- EXISTING WALL FRAMING TO REMAIN
- WALL AT PLUMBING CONNECTION. (E) FRAMING REQUIRES SOME ADJUSTMENT TO ACCOMODATE PLUMBING FIXTURES OR RELOCATED PLUMBING FIXTURES.
- ROOM NUMBER
- SIGN NUMBER
- ###-#X — SIGNAGE TAG, RE: SIGNAGE SCHEDULE
- SIGN TYPE

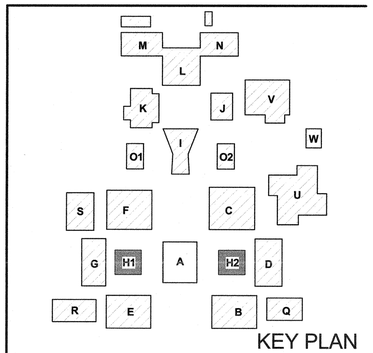
FINISH GENERAL NOTES

1. ALL GYPSUM BOARD INTERIOR FINISHES TO BE P1/ B1, U.N.O.
2. SEE DOOR SCHEDULE FOR DOOR FINISH, FRAME FINISH AND THRESHOLD DETAILS, RE: **AA6.01**
4. SEE INTERIOR ELEVATIONS FOR CLARIFICATION OF WALL FINISHES.
5. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE P1, U.N.O.
6. 'LO-SHEEN' PAINT FINISH TYPICAL THROUGHOUT, 'SEMI-GLOSS' FINISH AT ALL RESTROOMS AND OTHER WET LOCATIONS, 'FLAT' FINISH AT ALL CEILINGS.

SIGNAGE GENERAL NOTES

1. FOR SIGNAGE DETAILS, RE: **AA10.02**
2. FOR ACCESSIBILITY SIGNAGE NOTES, RE: **02/AA10.02**
3. FOR SIGNAGE MOUNTING HEIGHTS, RE: **03 & 04/AA10.02**
4. SIGN COPY AND GRAPHIC TO BE DIRECT TO SUBSTRATE PRINT, U.N.O.
5. VERIFY SIGN TEXT, COLOR, AND GRAPHICS WITH ARCHITECT PRIOR TO FABRICATION.
6. FOR INFORMATION REGARDING SIGN MATERIAL, COLOR, LETTERING TYPEFACE, SHOP DRAWINGS AND MOCK-UPS, RE: SPECIFICATION SECTION 10 1400 - SIGNAGE.
7. FOR SIGNS PLACED ONE BELOW ANOTHER, CENTER THE SIGNS.

KEYPLAN



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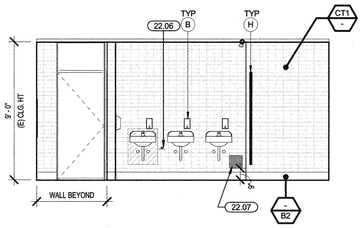
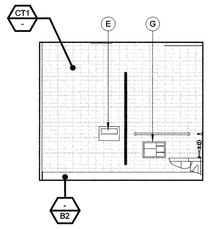
BLDGS. H1 & H2 FINISH, SIGNAGE & ROOF PLANS

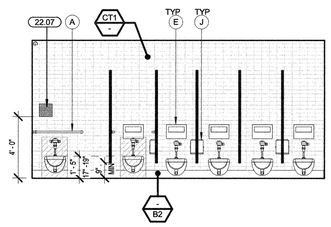
AH2.31



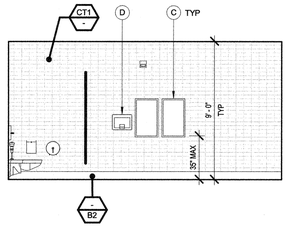
INT. ELEV. GIRLS 34 | 1/4" = 1'-0" | 08 / AH4.01 | A



INT. ELEV. GIRLS 34 | 1/4" = 1'-0" | 08 / AH4.01 | B



INT. ELEV. GIRLS 34 | 1/4" = 1'-0" | 08 / AH4.01 | C



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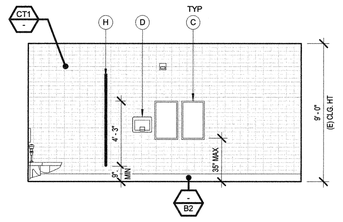

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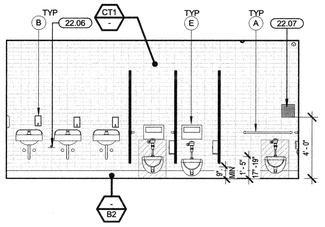
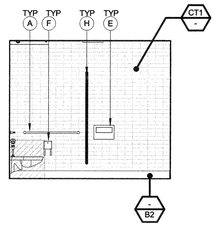


INT. ELEV. BOYS 32 | 1/4" = 1'-0" | 08 / AH4.01 | E



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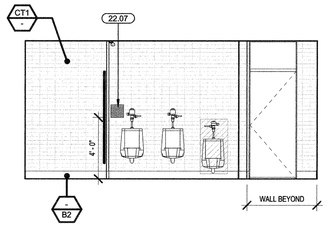

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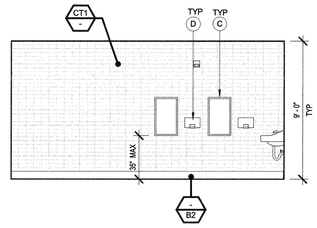

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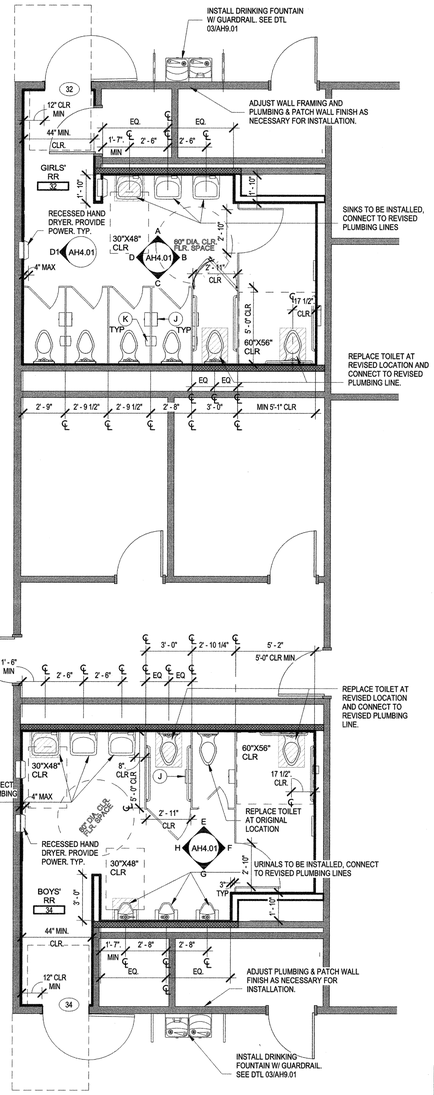


BLDG H1 ENLARGED RESTROOM PLAN | 1/4" = 1'-0" | 14 / AH2.01 | 08

KEYNOTES

22.06	HOSE BIB, SEE PLUMBING DWGS.
22.07	10" X 10" ACCESS PANEL, LOCATE BETWEEN (E) STUDS, ALIGN W/ TILE. FIELD VERIFY EXACT LOCATION, RE: 17/AH9.01 AND SEE PLUMBING DWGS.

LEGEND

- (E) STUD WALL
- WALL AT PLUMBING CONNECTION. (E) FRAMING REQUIRES SOME ADJUSTMENT TO ACCOMMODATE PLUMBING FIXTURES OR RELOCATED PLUMBING FIXTURES.
- CERAMIC TILE
- ALIGN FINISHES
- VPR — VERTICAL PLASTER REVEAL ON ELEVATION RE: A3.01
- HATCH INDICATES ACCESSIBLE PLUMBING FIXTURE
- CT1 — CERAMIC WALL TILE (FIELD), MFR: DALTILE, 3X6 RITTENHOUSE SQUARE COLOR: ARCTIC WHITE
- B2 — 6" INTEGRAL EPOXY COVE BASE, MFR: TERA LITE, TERA-GEM III DQ DOLO, COLOR: GRAY WITH CLEAR SEAL, TEXTURE: FLINTSHOT

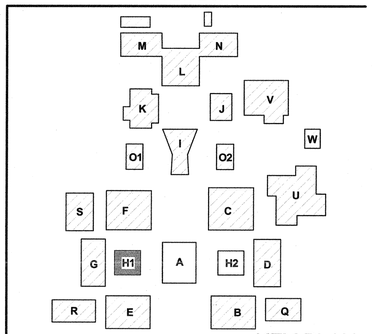
GENERAL NOTES

1. PROVIDE BLOCKING FOR INSTALLATION OF ACCESSORIES, TOILET PARTITIONS.
2. FOR REQUIRED ACCESSIBLE MOUNTING HEIGHTS AND OTHER DIMENSIONS, SEE DETAIL **04/AH9.01**
3. ALL DIMENSIONS TO FACE OF FINISH U.N.O.
4. FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL/ SPACE
5. PROVIDE CEMENTITIOUS TILE BACKER BOARD AT ALL TILED WALLS.
6. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD AT RESTROOM WALLS NOT RECEIVING TILE. PAINT P-1, U.N.O.
7. TILE DETAILS, RE: **06/AH9.01**
8. FOR FLOOR DRAIN, RE: **18/AH9.01**
9. ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 2'-10" MIN. ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2"
10. PARTITION STILE WIDTHS SHALL NOT EXCEED 4"
11. INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR. 40" A.F.F. AT ACCESSIBLE STALLS, 72"A.F.F. AT NON-ACCESSIBLE STALLS.
12. SEE **AH2.31** FINISH PLAN, FOR FINISH LEGEND AND SPECIFICATIONS.
13. SEE ELECTRICAL AND PLUMBING DWGS FOR ADDITIONAL SCOPE NOT SHOWN.

TOILET ACCESSORIES SCHEDULE

TAG	DESCRIPTION	MANUFACTURER ITEM NUMBER	REMARKS
A	GRAB BAR	BOBRICK MODEL B-5806 (36" AND 48")	SURFACE MTD. RE: 09/AH9.01
B	LIQUID SOAP DISPENSER	BOBRICK MODEL B-2111	SURFACE MTD.
C	MIRROR (18" X 30")	BOBRICK MODEL B-290 1830	SURFACE MTD.
D	HAND DRYER	BOBRICK MODEL B-750 115V	SEMI RECESSED.
E	TOILET SEAT COVER DISPENSER	BOBRICK MODEL B-221	SURFACE MTD.
F	TOILET PAPER DISPENSER	BOBRICK MODEL B-3888	RECESSED (BOYS)
G	TOILET PAPER DISPENSER/ SANITARY NAPKIN DISPOSAL	BOBRICK MODEL B-3094	RECESSED (GIRLS/ STAFF)
H	TOILET PARTITION/ URINAL PARTITION	ASI GLOBAL SOLID PLASTIC	FLOOR MTD/ WALL MTD. RE: 15 OR 19/AH9.01
J	TOILET PAPER DISPENSER	BOBRICK MODEL B-2890	PARTITION MOUNTED
K	SANITARY NAPKIN DISPOSAL	BOBRICK MODEL B-270	SURFACE MOUNTED (GIRLS)
L			

KEYPLAN



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C-31280
REN 08/31/2017
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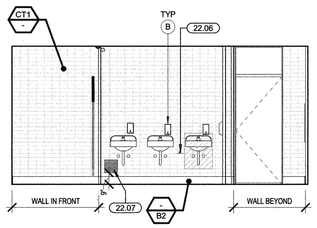
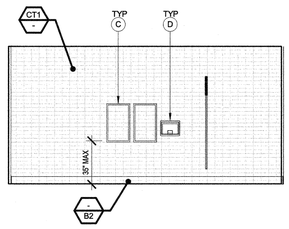
Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

BLDG H1 ENLARGED RESTROOM PLAN & ELEVATIONS

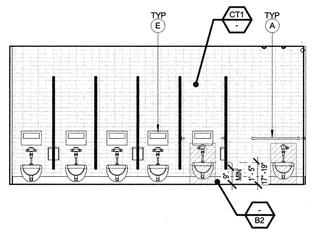
AH4.01



INT. ELEV. GIRLS 12 | 1/4" = 1'-0" | 1 / AH4.02 | J



INT. ELEV. GIRLS 12 | 1/4" = 1'-0" | 1 / AH4.02 | K



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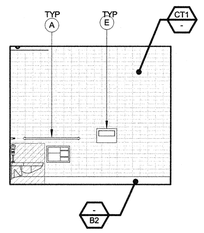

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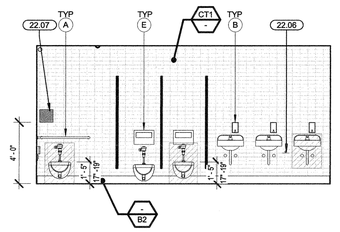
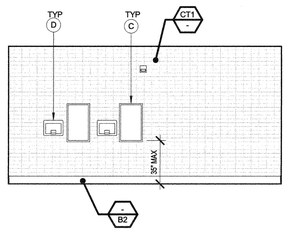
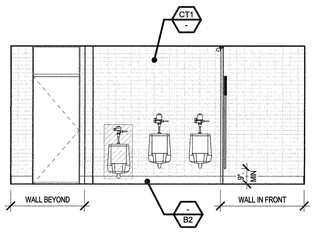


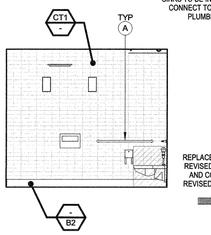
INT. ELEV. BOYS 15 | 1/4" = 1'-0" | 1 / AH4.02 | N



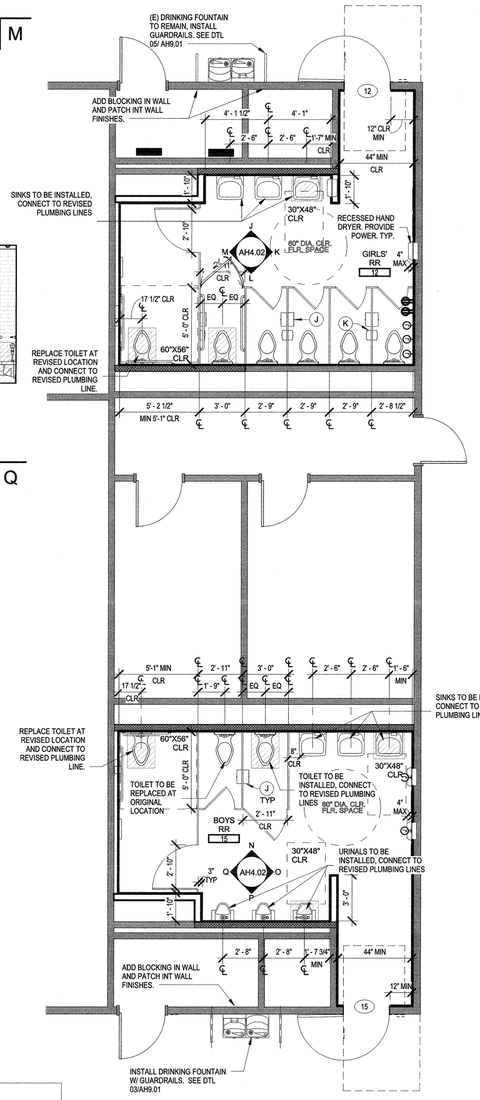
INT. ELEV. BOYS 15 | 1/4" = 1'-0" | 1 / AH4.02 | O



INT. ELEV. BOYS 15 | 1/4" = 1'-0" | 1 / AH4.02 | P



INT. ELEV. BOYS 15 | 1/4" = 1'-0" | 1 / AH4.02 | Q



KEYNOTES

22.06	HOSE BIB, SEE PLUMBING DWGS.
22.07	10" X 10" ACCESS PANEL, LOCATE BETWEEN (E) STUDS, ALIGN W/ TILE, FIELD VERIFY EXACT LOCATION, RE: 17/AH9.01 AND SEE PLUMBING DWGS.

LEGEND

- (E) STUD WALL
- WALL AT PLUMBING CONNECTION. (E) FRAMING REQUIRES SOME ADJUSTMENT TO ACCOMMODATE PLUMBING FIXTURES OR RELOCATED PLUMBING FIXTURES.
- CERAMIC TILE
- ALIGN FINISHES
- VPR — VERTICAL PLASTER REVEAL ON ELEVATION RE: A3.01
- HATCH INDICATES ACCESSIBLE PLUMBING FIXTURE
- CT1 — CERAMIC WALL TILE (FIELD), MFR: DALTILE, 3X6 RITTENHOUSE SQUARE COLOR: ARCTIC WHITE
- B2 — 6" INTEGRAL EPOXY COVE BASE, MFR: TERA LITE, TERA-GEM III DQ DOLO, COLOR: GRAY WITH CLEAR SEAL, TEXTURE: FLINTSHOT

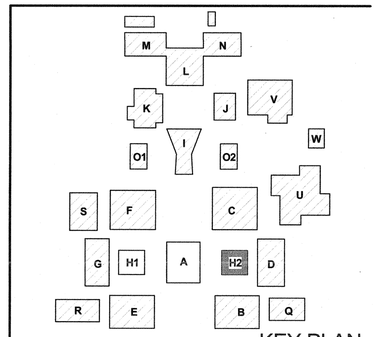
GENERAL NOTES

1. PROVIDE BLOCKING FOR INSTALLATION OF ACCESSORIES, TOILET PARTITIONS.
2. FOR REQUIRED ACCESSIBLE MOUNTING HEIGHTS AND OTHER DIMENSIONS, SEE DETAIL **04/AH9.01**
3. ALL DIMENSIONS TO FACE OF FINISH U.N.O.
4. FLUSH VALVE TO BE LOCATED AT WIDE SIDE OF STALL/ SPACE
5. PROVIDE CEMENTITIOUS TILE BACKER BOARD AT ALL TILED WALLS.
6. PROVIDE 5/8" MOISTURE RESISTANT GYPSUM BOARD AT RESTROOM WALLS NOT RECEIVING TILE. PAINT P-1, U.N.O.
7. TILE DETAILS, RE: **06/AH9.01**
8. FOR FLOOR DRAIN, RE: **18/AH9.01**
9. ALL ACCESSIBLE TOILET PARTITION DOORS TO BE 2'-10" MIN. ALL NON-ACCESSIBLE TOILET PARTITION DOORS SHALL NOT BE LESS THAN 2'-2"
10. PARTITION STILE WIDTHS SHALL NOT EXCEED 4"
11. INSTALL (1) COAT HOOK CENTERED ON THE BACK OF EVERY STALL DOOR. 40" A.F.F. AT ACCESSIBLE STALLS, 72"A.F.F. AT NON-ACCESSIBLE STALLS.
12. SEE **AH2.31** FINISH PLAN, FOR FINISH LEGEND AND SPECIFICATIONS.
13. SEE ELECTRICAL AND PLUMBING DWGS FOR ADDITIONAL SCOPE NOT SHOWN.

TOILET ACCESSORIES SCHEDULE

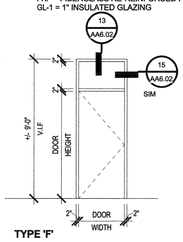
TAG	DESCRIPTION	MANUFACTURER ITEM NUMBER	REMARKS
A	GRAB BAR	BOBRICK MODEL B-5806 (36" AND 48")	SURFACE MTD. RE: 09/AH9.01
B	LIQUID SOAP DISPENSER	BOBRICK MODEL B-2111	SURFACE MTD.
C	MIRROR (18" X 30")	BOBRICK MODEL B-290 1830	SURFACE MTD.
D	HAND DRYER	BOBRICK MODEL B-750 115V	SEMI RECESSED.
E	TOILET SEAT COVER DISPENSER	BOBRICK MODEL B-221	SURFACE MTD.
F	TOILET PAPER DISPENSER	BOBRICK MODEL B-3888	RECESSED (BOYS)
G	TOILET PAPER DISPENSER/ SANITARY NAPKIN DISPOSAL	BOBRICK MODEL B-3094	RECESSED (GIRLS/ STAFF)
H	TOILET PARTITION/ URINAL PARTITION	ASI GLOBAL SOLID PLASTIC	FLOOR MTD/ WALL MTD. RE: 15 OR 19/AH9.01
J	TOILET PAPER DISPENSER	BOBRICK MODEL B-2890	PARTITION MOUNTED
K	SANITARY NAPKIN DISPOSAL	BOBRICK MODEL B-270	SURFACE MOUNTED (GIRLS)
L			

KEYPLAN



ABBREVIATIONS

GL = GLASS (T = TEMPERED)
PT = PAINT
HM= HOLLOW METAL
FRP = FIBERGLASS RE-REINFORCED PANELS
GL-1 = 1" INSULATED GLAZING



TYPE 'F'

DOOR TYPE / FRAME TYPE | 1/4" = 1'-0"

DOOR NOTES

1. GLAZING AT TRANSOM TO BE GL-1 U.N.O.
2. HOLLOW METAL DOORS AND FRAMES SHALL BE PAINTED TO MATCH THE COLOR OF ALUMINUM STOREFRONT SYSTEMS
3. REFER TO FRAME DETAILS AS INDICATED IN DRAWINGS TO DETERMINE FRAME DEPTH
4. ALL DOOR UNDERCUTS FOR VARYING CARPET THICKNESS, RUBBER FLOORING, ETC. SHALL BE VERIFIED AND PROPERLY COORDINATED.
5. ADJUST DOOR FRAME OPENING SIZES AS NECESSARY TO REFLECT VARIATIONS IN THE STRUCTURAL SLAB AND VARYING THICKNESSES OF THE FLOOR FINISHES.
6. EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
7. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 POUNDS FOR BOTH INTERIOR AND EXTERIOR DOORS.
8. THE DOOR SCHEDULE DEFINES THE ELEMENTS OF EACH DOOR OPENING IN THE PROJECT
9. WINDOWS TO BE TEMPERED GLAZING WHEN WITHIN 24" OF A DOOR JAMB OR WHEN GLAZING IS LESS THAN 60" ABOVE THE WALKING SURFACE.
10. THE WINDOW TYPES DEFINE THE ELEMENTS OF EACH WINDOW OPENING IN THE PROJECT.
11. DIMENSIONS INDICATED ARE TO ROUGH OPENINGS, U.N.O.
12. SEE ALSO SIGNAGE PLANS AND DETAILS

DOOR SCHEDULE BLDG. H1 & H2

DOOR NUMBER	DOOR TYPE	DOOR SIZE		DOOR PANEL		DOOR FRAME		DOOR DETAILS				HARDWARE GROUP	REMARKS
		WIDTH	HEIGHT	THICKNESS	FINISH	MATERIAL	FINISH	DOOR HEAD	DOOR JAMB	DOOR JAMB	THRESHOLD		
32	F	3' - 0"	7' - 0"	1 3/4"	FRP - SLATE GREY	HM	PT	08/AA6.02	15/AA6.02	15/AA6.02	16/AA6.02	9	DOOR W/ TRANSOM-GL-1, VERIFY (E) DIMENSIONS IN FIELD
34	F	3' - 0"	7' - 0"	1 3/4"	FRP - SLATE GREY	HM	PT	08/AA6.02	15/AA6.02	15/AA6.02	16/AA6.02	9	DOOR W/ TRANSOM-GL-1, VERIFY (E) DIMENSIONS IN FIELD
12	F	3' - 0"	7' - 0"	1 3/4"	FRP - SLATE GREY	HM	PT	08/AA6.02	15/AA6.02	15/AA6.02	16/AA6.02	9	DOOR W/ TRANSOM-GL-1, VERIFY (E) DIMENSIONS IN FIELD
15	F	3' - 0"	7' - 0"	1 3/4"	FRP - SLATE GREY	HM	PT	08/AA6.02	15/AA6.02	15/AA6.02	16/AA6.02	9	DOOR W/ TRANSOM-GL-1, VERIFY (E) DIMENSIONS IN FIELD

1.1- BLDG H2 ENLARGED RESTROOM PLAN | 1/4" = 1'-0" | 2 / AH2.01 | 1

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EAST SIDE Union High School District — Home of the Yellow Jackets — HIGH SCHOOL

OAK GROVE HIGH SCHOOL Student Center, H1 & H2 Upgrades and Quads
285 Blossom Hill Road, San Jose, CA 95123
Developed for East Side Union High School District

Revision	Date

Submittal	Date
SCHEMATIC DESIGN	08/31/15
DESIGN DEVELOPMENT	01/29/16
85% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
DSA APPROVAL	02/02/2017

Job No. 1524810
Date 02/02/2017
Checked by Checker
Scale As indicated

BLDG H2 ENLARGED RESTROOM PLAN & ELEVATIONS

AH4.02

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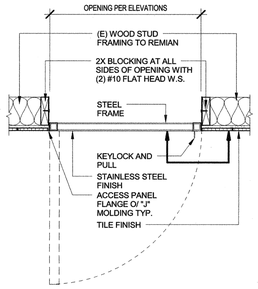
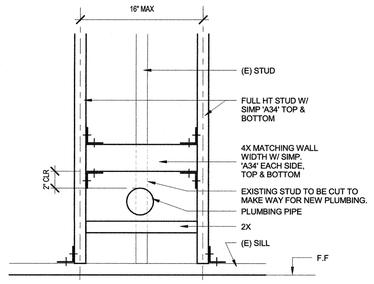
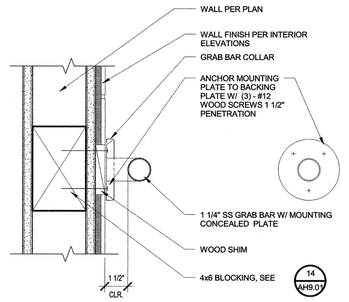


ACCESS PANEL | 1" = 1'-0" | 17

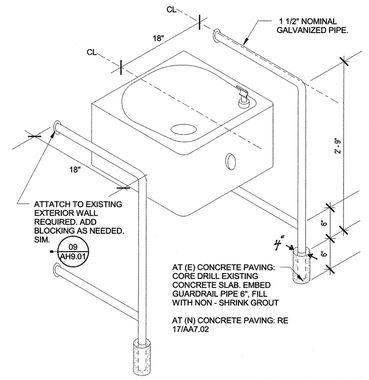


WOODSTUD FRAMING MODIFICATION | 1 1/2" = 1'-0" | 13

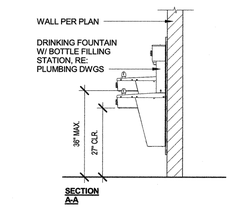


NOTE:
USE MANUFACTURER PROVIDED FASTENERS FOR PARTITION MOUNTED GRAB BARS

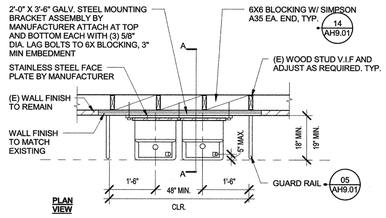
GRAB BAR @ WOOD STUD | 3" = 1'-0" | 09



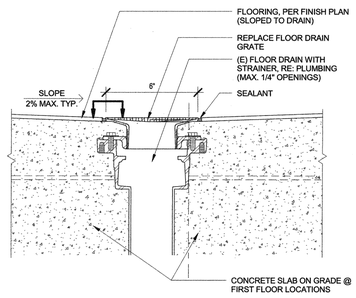
GUARDDRAIL @ DRINKING FOUNTAIN | 1" = 1'-0" | 05



SECTION
A-A

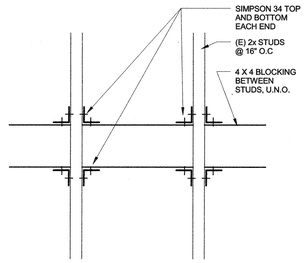


PLAN VIEW

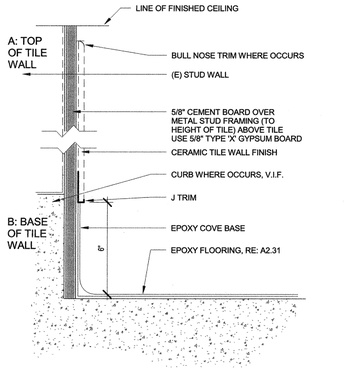


NOTE:
FOR ADDITIONAL INFORMATION SEE F101 (TCA HANDBOOK).

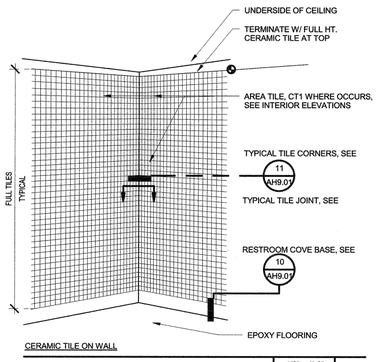
FLOOR DRAIN AT CONCRETE FLOOR | 3" = 1'-0" | 18



WOOD STUD BLOCKING | 1 1/2" = 1'-0" | 14

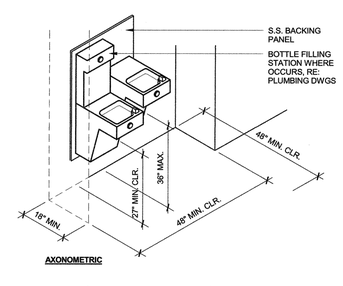


RESTROOM COVE BASE | 3" = 1'-0" | 10

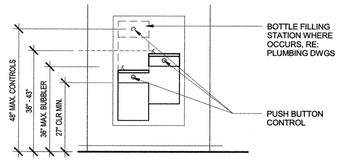


CERAMIC TILE ON WALL

ISOMETRIC FLOOR AND WALL TILE | 1/2" = 1'-0" | 06



AXONOMETRIC



ELEVATION

1. DRINKING FOUNTAIN SHALL BE ACCESSIBLE.

2. DRINKING FOUNTAINS SHALL BE LOCATED COMPLETELY WITHIN ALCOVES OR OTHERWISE POSITIONED SO AS NOT TO ENCROACH INTO PEDESTRIAN WAYS. THE ALCOVE SHALL BE NOT LESS THAN 32" IN WIDTH AND 18" IN DEPTH.

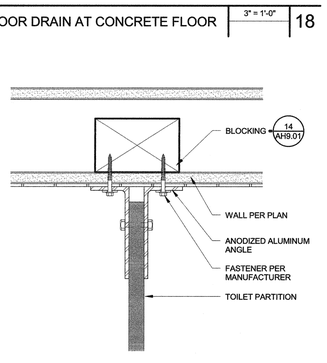
3. DRINKING FOUNTAIN SHALL BE A MINIMUM OF 18" IN DEPTH AND SHALL HAVE A CLEAR AND UNOBSTRUCTED KNEE SPACE UNDERNEATH OF NOT LESS THAN 27" IN HEIGHT (ADULT) AND 8" IN DEPTH, THE DEPTH MEASUREMENT TAKEN FROM THE FOUNTAIN'S FRONT EDGE.

4. THERE SHALL BE TOE CLEARANCE OF 9" IN HEIGHT ABOVE THE FLOOR, AND 17" IN DEPTH FROM THE FRONT EDGE OF THE FOUNTAIN.

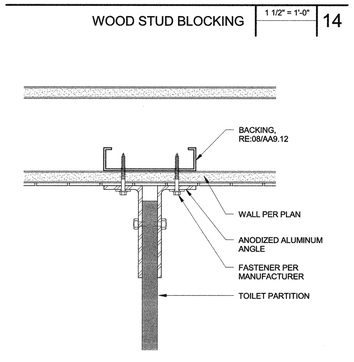
5. THE DRINKING FOUNTAIN BUBBLER SHALL BE ACTIVATED BY A CONTROL, WHICH IS EASILY OPERATED, SUCH AS A HAND-OPERATED LEVEL TYPE CONTROL LOCATED WITHIN 6" OF THE FRONT OF THE FOUNTAIN (OR WITHIN 3" OF THE FRONT EDGE OF THE FOUNTAIN AT ROUND BOWLS), A PUSH BAR CONTROL ALONG THE FRONT OF THE DRINKING FOUNTAIN, ETC.

6. THE BUBBLER OUTLET ORIFICE SHALL BE LOCATED WITHIN 5" OF THE FRONT OF THE DRINKING FOUNTAIN AND SHALL BE WITHIN 36" (ADULT) OF THE FLOOR. THE WATER STREAM FROM THE BUBBLER SHALL BE PARALLEL TO THE FRONT EDGE OF THE DRINKING FOUNTAIN.

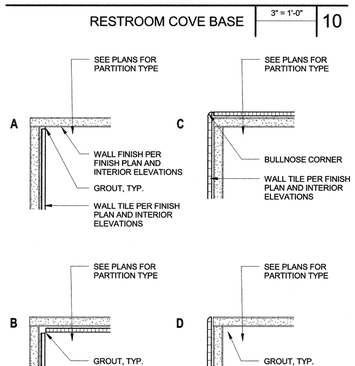
DRINKING FOUNTAIN ALCOVE | 1/2" = 1'-0" | 03



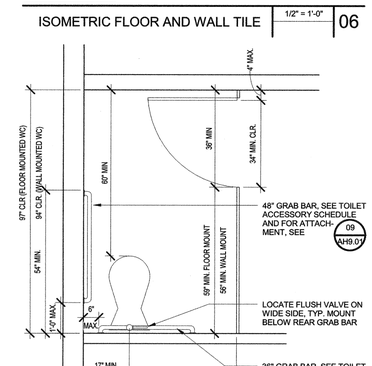
PARTITION DETAIL @ WOOD | 3" = 1'-0" | 19



PARTITION DETAIL | 3" = 1'-0" | 15

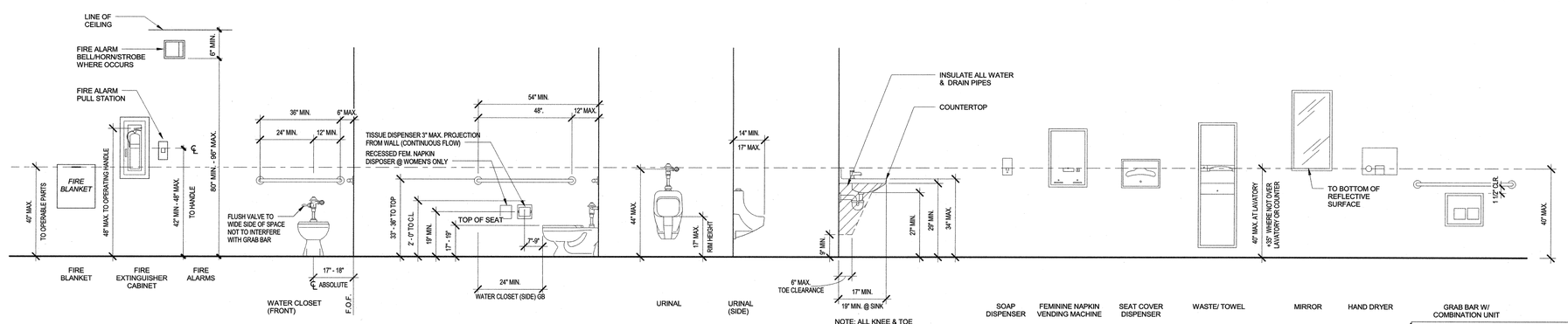


TILE CORNERS | 3" = 1'-0" | 11



NOTE:
FOR MOUNTING HEIGHTS, SEE:

TYP. ACCESSIBLE TOILET | 1/2" = 1'-0" | 07



FOR MOUNTING ANCHORAGES, USE MANUFACTURER SUPPLIED FASTENERS & SEE DETAIL 14/AH9.01

ACCESSIBLE RESTROOM MOUNTING HEIGHTS - FOR ADULTS | 1/2" = 1'-0" | 04

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LICENSED ARCHITECT
DAVID A. DILLON
No. C-26977
REN. 12-31-2017
STATE OF CALIFORNIA

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OAK GROVE HIGH SCHOOL Student Center, H1 & H2 Upgrades and Quads

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Developed for
East Side Union High School District

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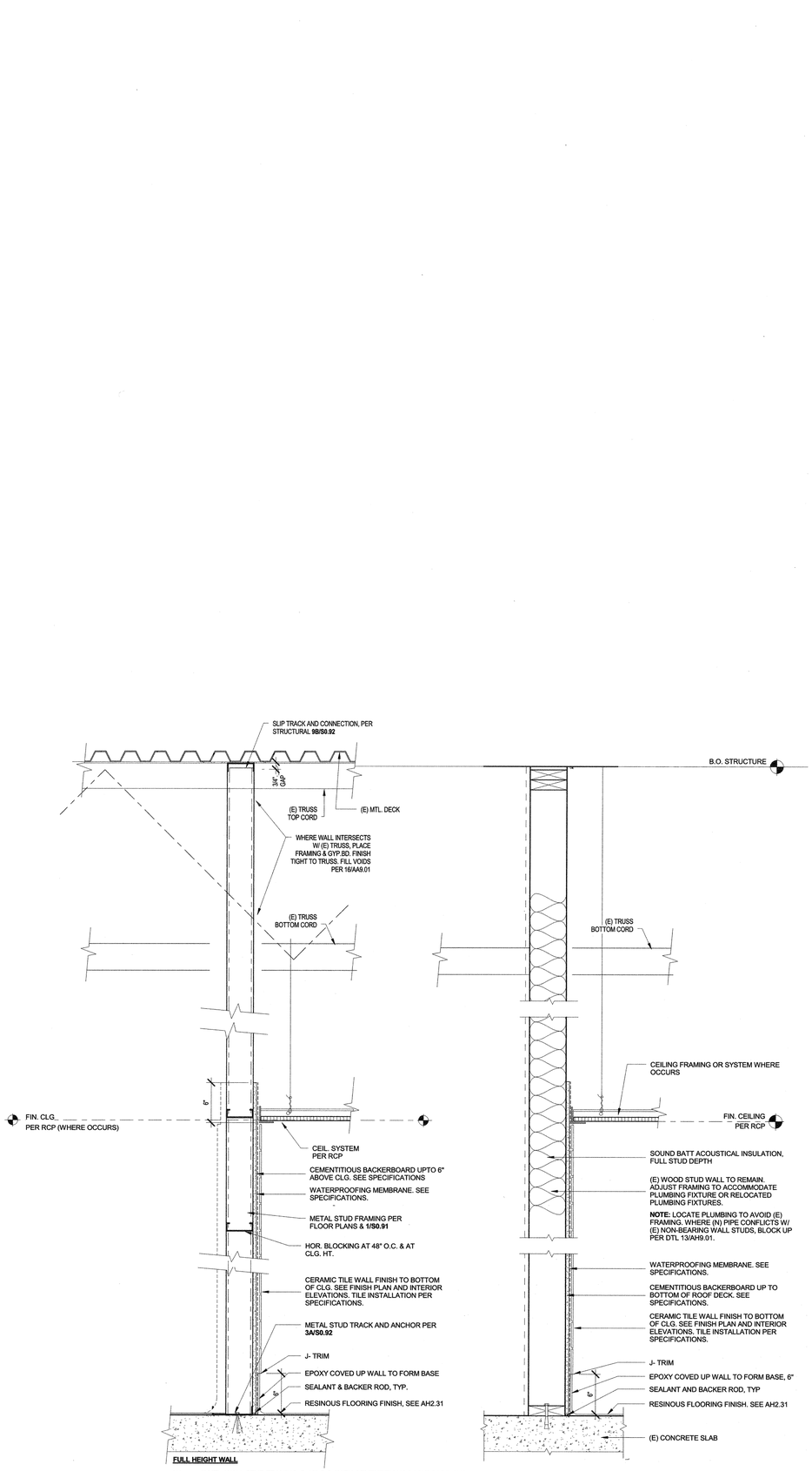
Revision	Date

Submittal	Date
SCHEMATIC DESIGN	08/31/15
DESIGN DEVELOPMENT	01/29/16
85% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
DSA APPROVAL	02/02/2017

Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

INTERIOR DETAILS

AH9.01



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No. 30017
REN.
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC JM FLS SS WF
DATE FEB 0 2 2017
FILE NUMBER:43-H10

EAST SIDE UNION HIGH SCHOOL DISTRICT

OAK GROVE HIGH SCHOOL Student Center, H1 & H2 Upgrades and Quads

285 Blossom Hill Road,
San Jose, CA 95123

Developed for
East Side Union High School District

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SCHEMATIC DESIGN	08/31/15
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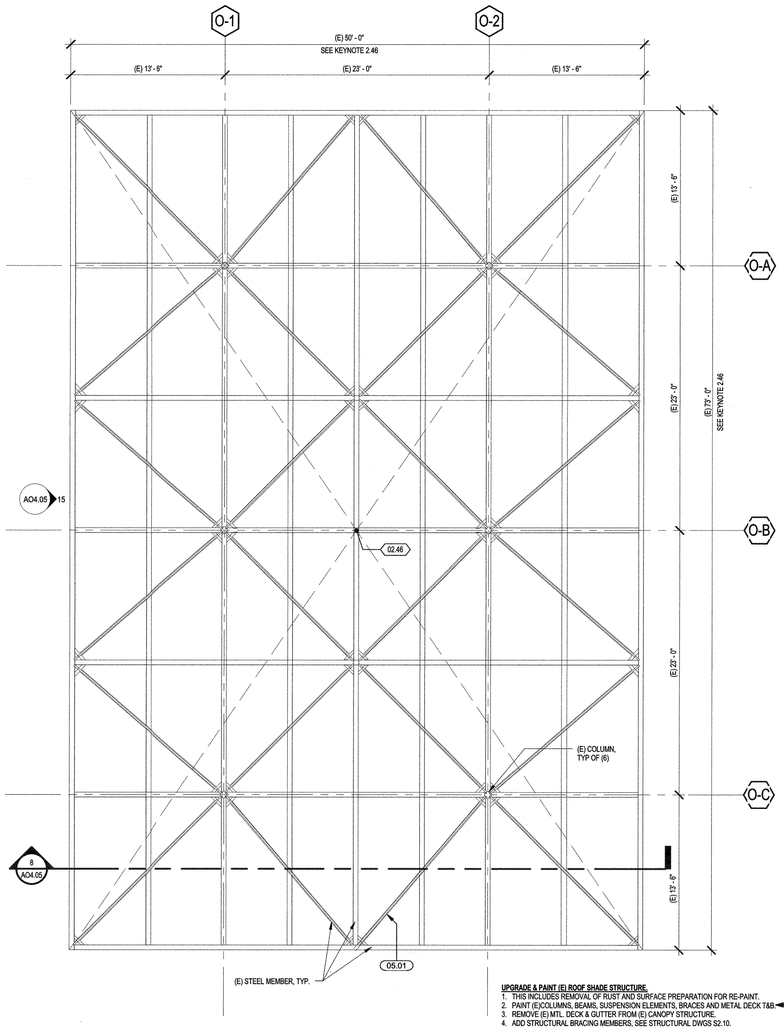
95% CD ESTIMATE	7/22/2016
DSA SUBMITTAL	8/26/2016
DSA APPROVAL	02/02/2017

Job. No.	1524810
Date	02/02/2017
Checked by	Checker
Scale	1 1/2" = 1'-0"

WALL TYPES.

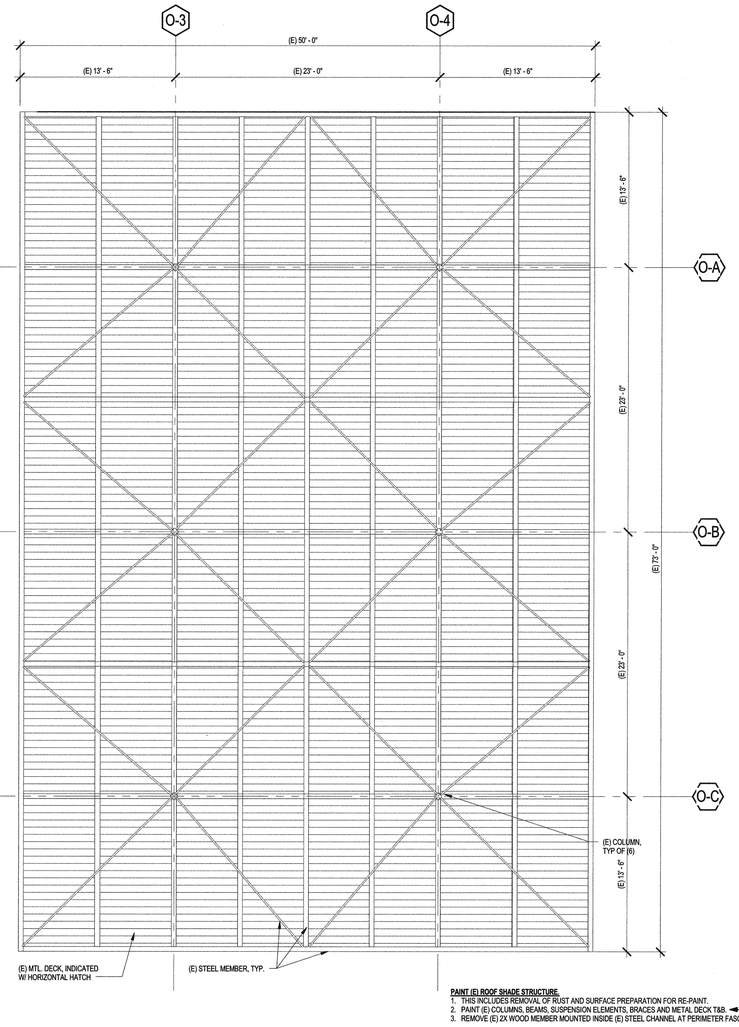
AH9.02



UPGRADE & PAINT (E) ROOF SHADE STRUCTURE.
1. THIS INCLUDES REMOVAL OF RUST AND SURFACE PREPARATION FOR RE-PAINT.
2. PAINT (E)COLUMNS, BEAMS, SUSPENSION ELEMENTS, BRACES AND METAL DECK T&B
3. REMOVE (E) MTL. DECK & GUTTER FROM (E) CANOPY STRUCTURE.
4. ADD STRUCTURAL BRACING MEMBERS, SEE STRUCTURAL DWGS S2.10.

P2

EXISTING CANOPY STRUCTURE - O1 | 3/16" = 1'-0" | 15



PAINT (E) ROOF SHADE STRUCTURE.
1. THIS INCLUDES REMOVAL OF RUST AND SURFACE PREPARATION FOR RE-PAINT.
2. PAINT (E) COLUMNS, BEAMS, SUSPENSION ELEMENTS, BRACES AND METAL DECK T&B.
3. REMOVE (E) 2X WOOD MEMBER MOUNTED INSIDE (E) STEEL CHANNEL AT PERIMETER FASCIA.

P2

EXISTING CANOPY STRUCTURE - O2 | 3/16" = 1'-0" | 3

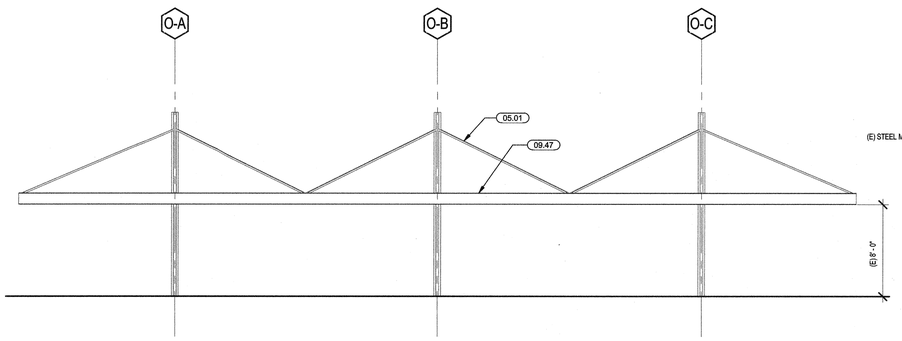
KEYNOTES

02.45	REMOVE (E) 2X WOOD BOARD MOUNTED INSIDE (E) STEEL CHANNEL AT PERIMETER FASCIA.
02.46	REMOVE (E)METAL DECK
05.01	ADD STEEL MEMBERS TO (E) CANOPY STRUCTURE, SEE STRUCTURAL DWGS S2.10
09.46	PAINT (E) STEEL STRUCTURE OF LUNCH SHELTER WITH ALL ITS STRUCTURAL MEMBERS. PAINT ADDED STRUCTURAL MEMBERS.
09.47	PAINT (E) METAL DECK UNDERSIDE & TOP SURFACE. PAINT (E) GUTTER.

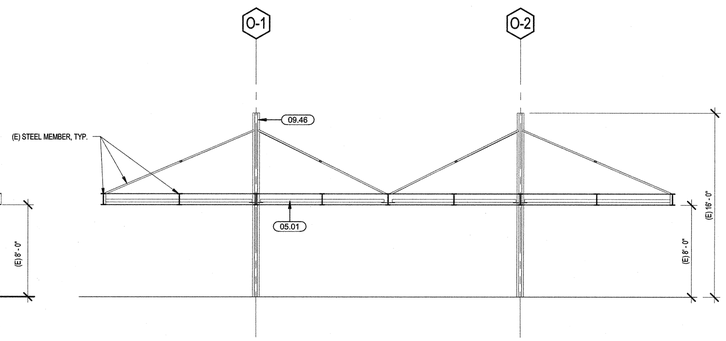
LEGEND

(E) MTL. DECKING TO REMAIN AND REPAINTED WITH P2

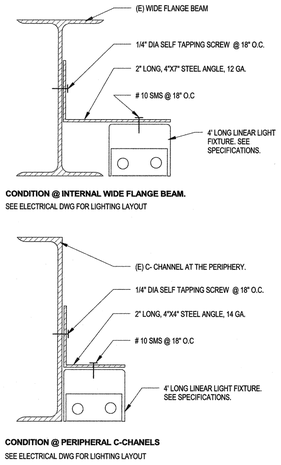
PX — PAINT COLOR, SEE FINISH LEGEND FOR COLORS



EAST / WEST ELEVATION OF (E) MTL. CANOPY STRUCTURE - 01 | 3/16" = 1'-0" | 16



NORTH / SOUTH ELEVATION OF (E) MTL. CANOPY STRUCTURE -02 | 3/16" = 1'-0" | 8



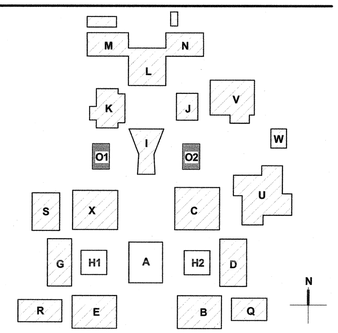
CONDITION @ INTERNAL WIDE FLANGE BEAM.
SEE ELECTRICAL DWG FOR LIGHTING LAYOUT

CONDITION @ PERIPHERAL C-CHANELS
SEE ELECTRICAL DWG FOR LIGHTING LAYOUT

FIXTURE MOUNTING DEATIL | 3" = 1'-0" | 1

GENERAL NOTES

1. ALL STEEL FRAMING MEMBERS TO BE PAINTED WITH P2-1
2. SEE STRUCTURAL AND ELECTRICAL DWGS FOR ADDITIONAL SCOPE.



KEY PLAN

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LICENSED ARCHITECT DENNIS REN 31520 STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
APPL. #: 01-116137
AC DATE: FEB 02 2017
FILE NUMBER: 43-H10

EAST SIDE Union High School District

OAK GROVE HIGH SCHOOL - LIBRARY
REMODEL & SITE IMPROVEMENTS

285 Blossom Hill Road,
San Jose, CA 95123

Developed for
East Side Union High School District

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Job. No.	1524810
Date	02/02/2017
Checked by	LPA
Scale	As indicated

ENLARGED PLAN - SHADE STRUCTURES

AO4.05