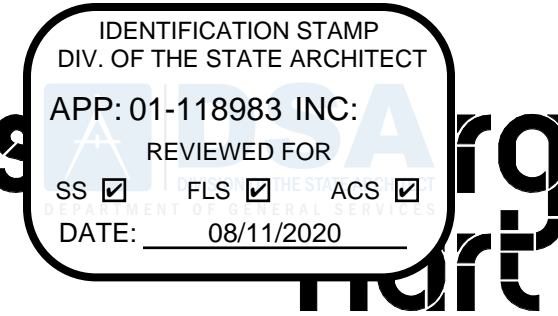


Administration Service Interior Improvements - Student Services and Administration Building

LAS POSITAS COLLEGE
3000 CAMPUS HILL DR., LIVERMORE CA

DSA SUBMITTAL

08.11.2020



CLIENT
Chabot Las-Positas Community College District
5020 Franklin Dr.
Pleasanton, CA 94588

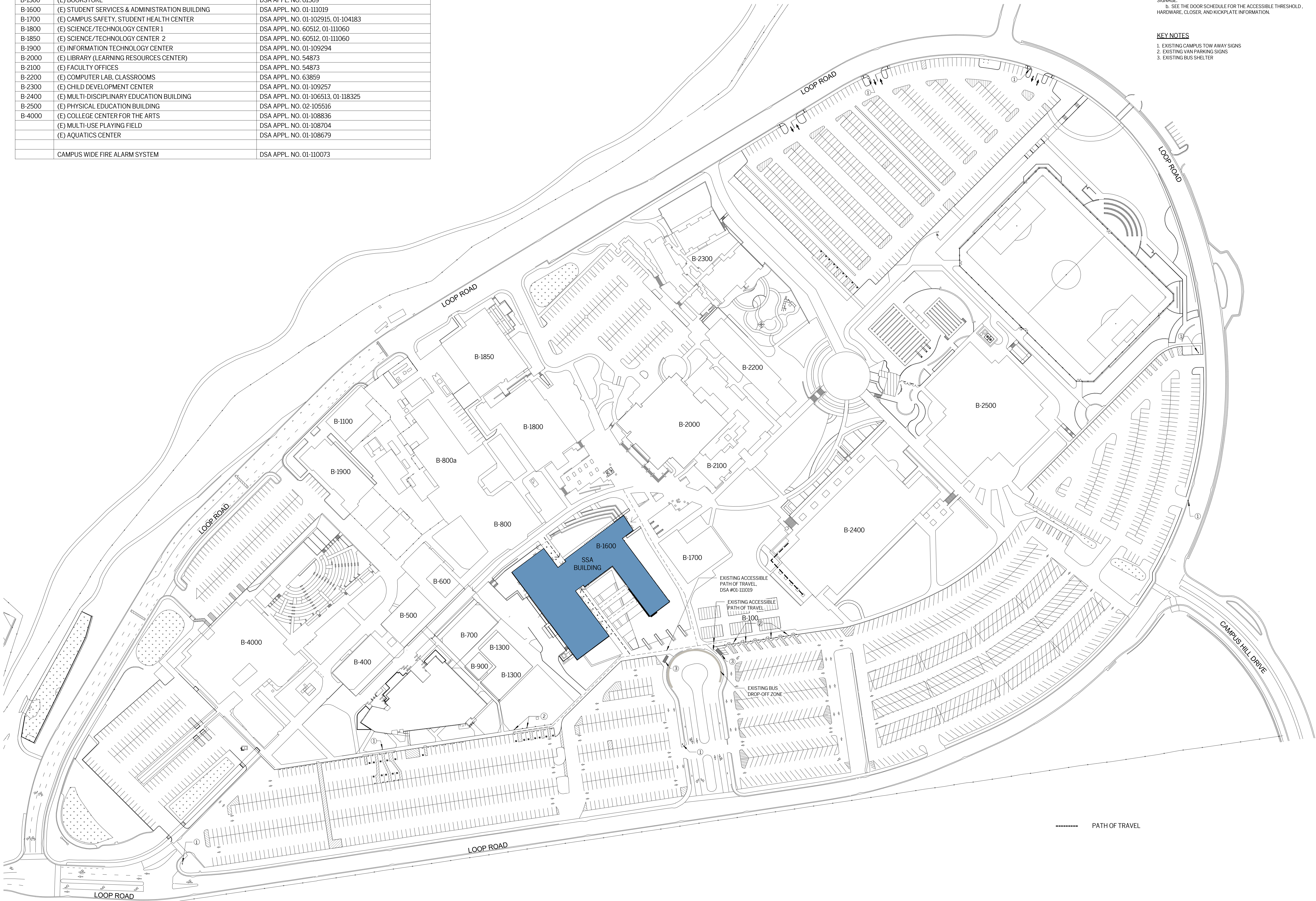
ARCHITECT
Steinberg Hart
125 S. Market St., Suite 110
San Jose, CA 95113

PROJECT DESCRIPTION	SHEET INDEX	LOCATION MAP																																
<p>The project is limited to interior work in the Academic Services Suite 1690. Suite 1690 is located in the West Wing of the Second Floor of the Las Positas College Student Services and Administration Building (B-1600, DSA# 01-111019).</p> <p>The improvements to the Academic Services Administration Suite 1690 include the expansion of the Vice President's office, the conversion of the existing storage space into a new office, and the creation of two new offices and a new storage space.</p>	<p>GENERAL - ADMIN SUITE</p> <p>G.01 PROJECT INFORMATION & SHEET INDEX G.02 CAMPUS PLAN ACCESSIBLE PATH OF TRAVEL G.03 CAMPUS PLAN FIRE ACCESS DIAGRAM G.04 CODE/LIFE SAFETY</p> <p>ARCHITECTURAL - ADMIN SUITE</p> <p>A.01 SITE PLAN A.20 ENLARGED DEMO AND FLOOR PLAN A.21 ENLARGED DEMO AND NEW REFLECTED CEILING PLAN A.30 INTERIOR ELEVATIONS A.40 ACOUSTICAL PARTITION SECTIONS AND TYPES A.50 SCHEDULES A.60 DETAILS - INTERIOR - WALLS A.61 DETAILS - INTERIOR - DOORS AND WINDOWS A.62 DETAILS - INTERIOR - CEILING</p> <p>STRUCTURAL - ADMIN SUITE</p> <p>S.10 STRUCTURAL GENERAL NOTES S.200 (E) PARTIAL 2ND FLOOR AND ROOF FRAMING PLANS S.91 LIGHT GAUGE DETAILS S.92 LIGHT GAUGE DETAILS</p> <p>MECHANICAL - ADMIN SUITE</p> <p>M.01 SYMBOLS LIST AND GENERAL NOTES - MECHANICAL M.02 SCHEDULES & TITLE 24 COMPLIANCE FORMS - MECHANICAL M.21 ENLARGED FLOOR PLAN - DEMO AND NEW WORK - MECHANICAL M.22 ENLARGED FLOOR PLAN - DEMO AND NEW WORK - MECHANICAL PIPING M.51 DETAILS & CONTROL DIAGRAM - MECHANICAL M.52 DETAILS - MECHANICAL M.61 SPECIFICATIONS - MECHANICAL</p> <p>ELECTRICAL - ADMIN SUITE</p> <p>E0.01 SYMBOLS LIST, GENERAL NOTES, AND LUMINAIRE SCHEDULE - ELECTRICAL E0.02 TITLE 24 COMPLIANCE FORMS - ELECTRICAL E2.01 ENLARGED FLOOR PLAN - LIGHTING E3.01 ENLARGED FLOOR PLAN - POWER E4.01 DETAILS AND SCHEDULES - ELECTRICAL E5.01 SPECIFICATIONS - ELECTRICAL</p> <p>FIRE PROTECTION - ADMIN SUITE</p> <p>FP.01 SYMBOLS LIST, GENERAL NOTES - FIRE PROTECTION FP.2.01 ENLARGED RCP - DEMO AND NEW WORK - FIRE PROTECTION FP.5.01 SPECIFICATIONS - FIRE PROTECTION</p> <p>FIRE ALARM - ADMIN SUITE</p> <p>FA.0.01 SYMBOLS LIST AND GENERAL NOTE - FIRE ALARM FA.2.01 ENLARGED FLOOR PLAN - DEMO AND NEW WORK - FIRE ALARM FA.4.01 SPECIFICATIONS - FIRE ALARM</p> <p>TECHNOLOGY - ADMIN SUITE</p> <p>TO.01 SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY TZ.01 ENLARGED FLOOR PLAN - TECHNOLOGY</p> <p>NOTE: FOR EXISTING PATH OF TRAVEL ACCESSIBLE ELEMENTS SEE REFERENCE SHEET A.02 IN "P.O.T. REFERENCE DRAWINGS" FOLDER</p>																																	
<p>APPLICABLE CODES AND SUMMARIES</p> <p>JURISDICTION: CALIFORNIA DIVISION OF STATE ARCHITECT (DSA)</p> <p>NOTE: THE INTENT OF THE DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT REFERENCED PROJECT IN ACCORDANCE WITH CALIFORNIA CODE OF REGULATIONS TITLE 24. SHOULD ANY CONDITION DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH SAID CALIFORNIA CODE OF REGULATIONS TITLE 24, A CHANGE ORDER DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE AGENCY HAVING JURISDICTION BEFORE PROCEEDING WITH THE WORK.</p> <p>CALIFORNIA CODE OF REGULATIONS (CCR) 2019 CALIFORNIA ADMINISTRATIVE CODE - PART 1, TITLE 24, CCR* 2019 CALIFORNIA BUILDING CODE - PART 2, TITLE 24, CCR (2018 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ELECTRICAL CODE - PART 3, TITLE 24, CCR (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA MECHANICAL CODE - PART 4, TITLE 24, CCR (2018 IAPMO UNIFORM MECHANICAL CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA PLUMBING CODE - PART 5, TITLE 24, CCR (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA ENERGY CODE - PART 6, TITLE 24, CCR 2019 CALIFORNIA FIRE CODE - PART 9, TITLE 24, CCR (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA EXISTING BUILDING CODE - PART 10, TITLE 24, CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS) 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE - PART 11, TITLE 24, CCR 2019 CALIFORNIA REFERENCE STANDARDS CODE - PART 12, TITLE 24, CCR TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS 2016 ASME A17.1/CSA B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS (PER 2019 CBC PART 2 CH 35) NOTE: CAL/OSHA ELEVATOR UNIT ENFORCED CCR TITLE 8 AND USES THE 2004 ASME A17.1 BY ADOPTION</p> <p>CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS</p> <p>NFPA 10, STANDARD FOR PORTABLE FIRE EXTINGUISHERS, 2018 EDITION NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED), 2016 EDITION NFPA 14, STANDARD FOR THE INSTALLATION OF STANDPIPE AND HOSE SYSTEM (CA AMENDED), 2016 EDITION NFPA 17, STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION NFPA 17A, STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS, 2017 EDITION NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE (CA AMENDED), 2016 EDITION NFPA 80, STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES, 2016 EDITION NFPA 101, LIFE SAFETY CODE, 2018 EDITION NFPA 2001, STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED), 2015 EDITION UL 300, STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT, 2005 (R2010) UL 464, AUDIBLE SIGNALING DEVICES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES, 2003 EDITION UL 521, STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS, 1999 EDITION UL 1971, STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED, 2002 (R2010)</p> <p>FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.</p> <p>*ALL PARTS OF THE 2019 CALIFORNIA BUILDING CODE BECOME EFFECTIVE JANUARY 1, 2020 EXCEPT THE EFFECTIVE DATE FOR THE USE OF THE 2019 BUILDING ENERGY EFFICIENCY STANDARDS (TITLE 24, PART 1, CHAPTER 10) IS JANUARY 8, 2019 AND THE EFFECTIVE DATE FOR THE USE OF THE CALIFORNIA ADMINISTRATIVE CODE (TITLE 24, PART 1, CHAPTER 4) IS JANUARY 8, 2019.</p>	<p>ADMINISTRATIVE REQUIREMENTS</p> <p><u>CHAPTER 4 PART 1, TITLE 24, CCR, ADMINISTRATIVE REQUIREMENTS (PARTIAL LISTING ONLY)</u></p> <ol style="list-style-type: none"> A COPY OF PARTS 1 AND 2, TITLE 24, C.C.R. SHALL BE KEPT ON THE JOB SITE AT ALL TIMES. ALL CHANGE ORDERS AND ADDENDA TO BE SIGNED BY THE ARCHITECT AND THE OWNER AND APPROVED BY DSA. CHANGE ORDERS ARE NOT VALID UNTIL APPROVED BY DSA PER SECTION 4-335, PART 1, TITLE 24. ALL TESTS TO CONFORM TO THE REQUIREMENTS OF SECTION 4-335, PART 1, TITLE 24, AND APPROVED T & I SHEET. TESTS OF MATERIALS AND TESTING LABORATORY SHALL BE IN ACCORDANCE WITH SECTION 4-335 OF PART 1, TITLE 24 AND THE DISTRICT SHALL EMPLOY AND PAY THE LABORATORY. COSTS OF RE-TEST MAY BE BACK CHARGED TO THE CONTRACTOR. DSA SHALL BE NOTIFIED AT THE START OF CONSTRUCTION AND PRIOR TO THE PLACEMENT OF CONCRETE PER SECTION 4-331, PART 1, TITLE 24. INSPECTOR SHALL BE APPROVED BY DSA. INSPECTION SHALL BE IN ACCORDANCE WITH SECTION 4-333 (B). THE DUTY OF THE INSPECTOR SHALL BE IN ACCORDANCE WITH SECTION 4-342, PART 1, TITLE 24. SUPERVISION OF CONSTRUCTION BY DSA SHALL BE IN ACCORDANCE WITH THE SECTION 4-334, PART 1, TITLE 24. CONTRACTOR, INSPECTOR, ARCHITECT, AND ENGINEERS SHALL SUBMIT VERIFIED REPORTS (FORM SSS-6) IN ACCORDANCE WITH SECTION 4-336, AND 4-343, PART 1, TITLE 24. THE CONTRACTOR SHALL PERFORM HIS DUTIES IN ACCORDANCE WITH SECTION 4-343, PART 1, TITLE 24. 	<p>VICINITY MAP</p> <p>THESE DRAWINGS AND/OR SPECIFICATIONS AND/OR CALCULATIONS FOR THE ITEMS LISTED BELOW HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.</p> <p>THE ITEMS LISTED BELOW HAVE BEEN COORDINATED WITH MY PLANS AND SPECIFICATIONS ARE ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT FOR WHICH I AM THE INDIVIDUAL DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE.</p> <p>* ALL SHEETS OF STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL, TELECOM, FIRE PROTECTION, AND FIRE ALARM AND CONTROL.</p> <p>KATIA MCCLAIN DATE: 07/27/2020</p> <p>No. 34593 LICENSE NUMBER EXPIRATION DATE: 02/28/2021</p>																																
<p>DEFERRED APPROVALS AND SUBMITTALS</p> <p>NONE</p>	<p>ABBREVIATIONS</p> <table border="0"> <tr> <td>BLDG. - BUILDING</td> <td>OC. - ON CENTER</td> </tr> <tr> <td>CL. - CENTER LINE</td> <td>REQ. - REQUIRED</td> </tr> <tr> <td>CONC. - CONCRETE</td> <td>RCP. - REFLECTED CEILING PLAN</td> </tr> <tr> <td>CONT. - CONTINUOUS</td> <td>SCHD. - SCHEDULE</td> </tr> <tr> <td>DIA. - DIAMETER</td> <td>SED - SEE ELECTRICAL DRAWINGS</td> </tr> <tr> <td>E. - EXISTING</td> <td>SIM. - SIMILAR</td> </tr> <tr> <td>FEC. - FIRE EXTINGUISHER CABINET</td> <td>SMD - SEE MECHANICAL DRAWINGS</td> </tr> <tr> <td>FF. - FINISHED FLOOR</td> <td>SSD. - SEE STRUCTURAL DRAWINGS</td> </tr> <tr> <td>HT. - HEIGHT</td> <td>STL. - STEEL</td> </tr> <tr> <td>MEP - MECHANICAL / ELECTRICAL/PLUMBING</td> <td>TYP. - TYPICAL</td> </tr> <tr> <td>MIN. - MINIMUM</td> <td>W/ - WITH</td> </tr> <tr> <td>MTL. - METAL</td> <td></td> </tr> </table>	BLDG. - BUILDING	OC. - ON CENTER	CL. - CENTER LINE	REQ. - REQUIRED	CONC. - CONCRETE	RCP. - REFLECTED CEILING PLAN	CONT. - CONTINUOUS	SCHD. - SCHEDULE	DIA. - DIAMETER	SED - SEE ELECTRICAL DRAWINGS	E. - EXISTING	SIM. - SIMILAR	FEC. - FIRE EXTINGUISHER CABINET	SMD - SEE MECHANICAL DRAWINGS	FF. - FINISHED FLOOR	SSD. - SEE STRUCTURAL DRAWINGS	HT. - HEIGHT	STL. - STEEL	MEP - MECHANICAL / ELECTRICAL/PLUMBING	TYP. - TYPICAL	MIN. - MINIMUM	W/ - WITH	MTL. - METAL		<p>PROJECT DIRECTORY</p> <table border="0"> <tr> <td>ARCHITECT OF RECORD</td> <td>ACOUSTICAL</td> </tr> <tr> <td>STEINBERG HART 125 S MARKET STREET, SUITE 110 SAN JOSE, CA 95113 408.295.5446</td> <td>SALTER, INC. 60 S MARKET STREET, SUITE 480 SAN JOSE, CA, 95113 408.295.4944</td> </tr> <tr> <td>MECH., ELEC., PLUM.</td> <td>STRUCTURAL</td> </tr> <tr> <td>INTERFACE ENGINEERING, INC. 135 MAIN STREET, SUITE 400 SAN FRANCISCO, CA 94105 415.489.7240</td> <td>HOHBACH LEWIN, INC 260 SHERIDEAN AVENUE, SUITE 150 PALO ALTO, CA 94360 650.617.5930</td> </tr> </table>	ARCHITECT OF RECORD	ACOUSTICAL	STEINBERG HART 125 S MARKET STREET, SUITE 110 SAN JOSE, CA 95113 408.295.5446	SALTER, INC. 60 S MARKET STREET, SUITE 480 SAN JOSE, CA, 95113 408.295.4944	MECH., ELEC., PLUM.	STRUCTURAL	INTERFACE ENGINEERING, INC. 135 MAIN STREET, SUITE 400 SAN FRANCISCO, CA 94105 415.489.7240	HOHBACH LEWIN, INC 260 SHERIDEAN AVENUE, SUITE 150 PALO ALTO, CA 94360 650.617.5930
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<p>EXISTING BUILDING OVERVIEW</p> <p>PROJECT LOCATION: LAS POSITAS COLLEGE, STUDENT SERVICES AND ADMINISTRATION BUILDING, DSA# 01-111019</p> <p>EXISTING STRUCTURE: 2-STORY STUDENT SERVICES AND ADMINISTRATION BUILDING, EXISTING 68,016 SF</p> <p>OCCUPANCY: LEVEL 1: GROUP A-2, A-3, B, AND F1-OCCUPANCY LEVEL 2: GROUP B-OCCUPANCY (EXISTING TO REMAIN)</p> <p>CONSTRUCTION TYPE: TYPE II-B (NON-COMBUSTIBLE, NON-FIRE-RATED)</p> <p>ALLOWABLE BUILDING HEIGHT:</p> <table border="1"> <thead> <tr> <th></th> <th>ACTUAL</th> <th>ALLOWABLE</th> <th></th> </tr> </thead> <tbody> <tr> <td>STORIES:</td> <td>2</td> <td>2-4</td> <td>OKAY</td> </tr> <tr> <td>HEIGHT:</td> <td>35'</td> <td>55'</td> <td>OKAY</td> </tr> <tr> <td>BLDG AREA RATIO:</td> <td>1.17</td> <td>2'</td> <td>OKAY</td> </tr> </tbody> </table> <p>SEE G03-05 FOR DETAIL CALCULATION AND CODE INFORMATION</p>		ACTUAL	ALLOWABLE		STORIES:	2	2-4	OKAY	HEIGHT:	35'	55'	OKAY	BLDG AREA RATIO:	1.17	2'	OKAY	<p>DEFERRED APPROVALS AND SUBMITTALS</p> <p>NONE</p>	<p>KEY PLAN</p> <p>Administration Services Interior Improvements Student Services and Administration Building, Las Positas College 3000 Campus Hill Drive, Livermore CA</p> <p>PROJECT # 20057100 DATE: August 11, 2020 DRAWN BY: S. CALDWELL CHECKED BY: K. MCCLAIN SCALE:</p> <p>PROJECT INFORMATION & SHEET INDEX</p> <p>G.01</p>																
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BUILDING IDENTIFICATION

Building ID	Description	Status / Reference
B-100	(E) CLASSROOMS	TO BE DEMOLISHED
B-400	(E) ENGLISH CENTER	DSA APPL. NO. 36810
B-500	(E) FINE ARTS / MATHEMATICS LAB	DSA APPL. NO. 37718, 01-100279, 01-111234
B-600	(E) CLASSROOMS, INTEGRATED LEARNING CENTER (ILC)	DSA APPL. NO. 39643, 01-111234
B-700	(E) COMPUTER LAB	DSA APPL. NO. 39643, 44340, 01-111234, 01-114753
B-800	(E) COMPUTER CENTER, THEATER / TECHNICAL - VOCATIONAL	DSA APPL. NO. 41405
B-900	(E) CLASSROOMS	DSA APPL. NO. 41995
B-1100	(E) CENTRAL UTILITY PLAN	DSA APPL. NO. 47291, 01-110313
B-1300	(E) BOOKSTORE	DSA APPL. NO. 61569
B-1600	(E) STUDENT SERVICES & ADMINISTRATION BUILDING	DSA APPL. NO. 01-111019
B-1700	(E) CAMPUS SAFETY, STUDENT HEALTH CENTER	DSA APPL. NO. 01-102915, 01-104183
B-1800	(E) SCIENCE/TECHNOLOGY CENTER 1	DSA APPL. NO. 60512, 01-111060
B-1850	(E) SCIENCE/TECHNOLOGY CENTER 2	DSA APPL. NO. 60512, 01-111060
B-1900	(E) INFORMATION TECHNOLOGY CENTER	DSA APPL. NO. 01-109294
B-2000	(E) LIBRARY (LEARNING RESOURCES CENTER)	DSA APPL. NO. 54873
B-2100	(E) FACULTY OFFICES	DSA APPL. NO. 54873
B-2200	(E) COMPUTER LAB, CLASSROOMS	DSA APPL. NO. 63859
B-2300	(E) CHILD DEVELOPMENT CENTER	DSA APPL. NO. 01-109257
B-2400	(E) MULTI-DISCIPLINARY EDUCATION BUILDING	DSA APPL. NO. 01-106513, 01-118325
B-2500	(E) PHYSICAL EDUCATION BUILDING	DSA APPL. NO. 02-105516
B-4000	(E) COLLEGE CENTER FOR THE ARTS	DSA APPL. NO. 01-108836
	(E) MULTI-USE PLAYING FIELD	DSA APPL. NO. 01-108704
	(E) AQUATICS CENTER	DSA APPL. NO. 01-108679
	CAMPUS WIDE FIRE ALARM SYSTEM	DSA APPL. NO. 01-110073



GENERAL NOTES

1. ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5%, UNLESS OTHERWISE INDICATED. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTION TO 80" MINIMUM, AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL AND ABOVE 24" AND LESS THAN 80".
2. ALL EXTERIOR ENTRANCES AND EXITS IDENTIFIED WITH AN ARROW SYMBOL (→) ON THIS PLAN ARE ACCESSIBLE AND COMPLY WITH CBC 11338.1.1.
 - a. SEE THE SIGNAGE SCHEDULE FOR THE ISA AND TACTILE EXIT SIGNAGE.
 - b. SEE THE DOOR SCHEDULE FOR THE ACCESSIBLE THRESHOLD, HARDWARE, CLOSER, AND KICKPLATE INFORMATION.

KEY NOTES

1. EXISTING CAMPUS TOW AWAY SIGNS
2. EXISTING VAN PARKING SIGNS
3. EXISTING BUS SHELTER

IDENTIFICATION STAMP
 DIV. OF THE STATE ARCHITECT
 APP: 01-118983 INC.
 REVIEWED FOR
 SS FLS ACS
 DATE: 08/11/2020

CLIENT
 Chabot Las-Positas Community College District
 5020 Franklin Dr.
 Pittsburg, CA 94588

ARCHITECT
 Steinberg Hart
 125 S. Market St., Suite 110
 San Jose, CA 95113

REV	DATE	ISSUE

Administration Services Interior Improvements
 Student Services and Administration Building,
 Las Positas College
 3000 Campus Hill Drive, Livermore CA

PROJECT #: 20057100
 DATE: August 11, 2020
 DRAWN BY: S. CALDWELL
 CHECKED BY: K. MCCLAIN
 SCALE: As indicated

CAMPUS PLAN ACCESSIBLE PATH OF TRAVEL

CAMPUS PLAN ACCESSIBLE PATH OF TRAVEL
 SCALE: 1" = 80'-0"

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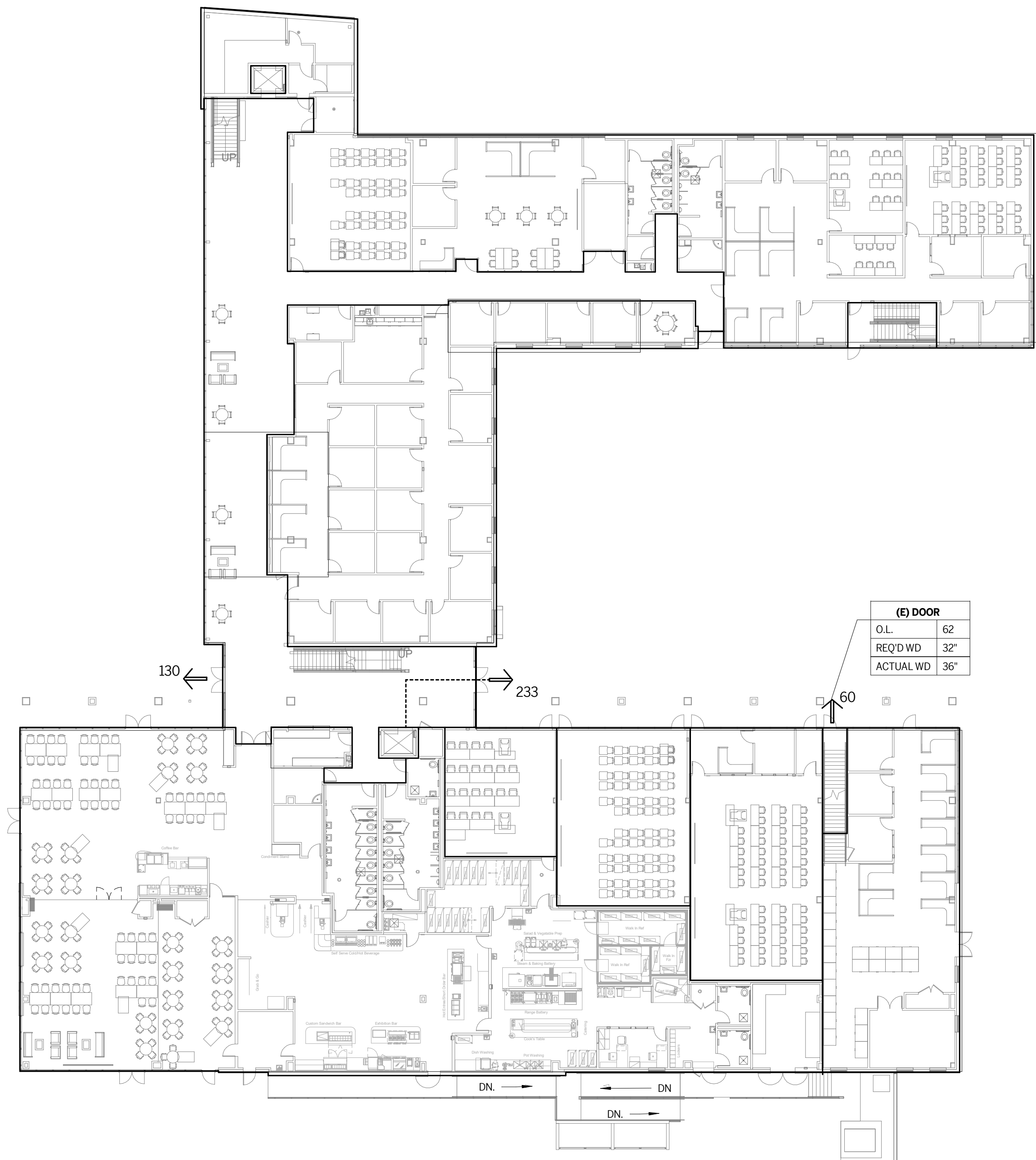
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Administration Services Interior Improvements
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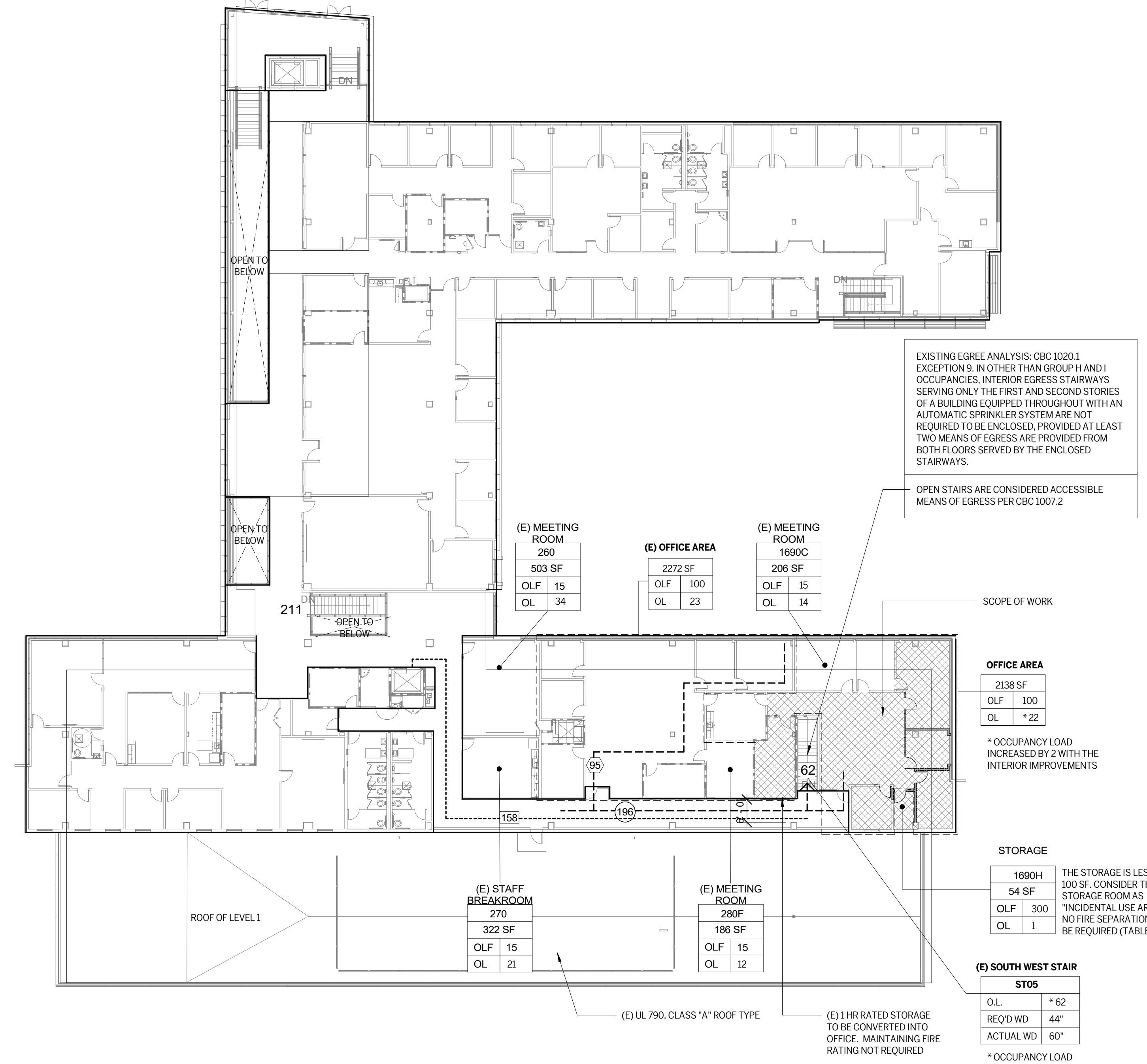
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 SCALE: 1" = 80'-0"

CAMPUS PLAN FIRE ACCESS DIAGRAM

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Level 1 - Exiting Plan
 SCALE: 1" = 20'-0"
 FOR EXITING REFERENCE ONLY
 NO SCOPE OF WORK ON THIS FLOOR **1**



Level 2 - Exiting Plan
 SCALE: 1" = 20'-0"
2

CODE REVIEW SUMMARY

A. BUILDING AND OCCUPANCY CLASSIFICATION

USES AND OCCUPANCIES

USE	OCCUPANCY	SAMPLES
OFFICE AND ADMIN	GROUP B	OFFICE AREAS
CLASSROOM WITH < 50	GROUP B	OFFICE AREAS
CLASSROOM WITH > 50	GROUP A-3	ASSESSMENT
DINING	GROUP A-2	CAFETERIA
KITCHEN, MECH./ELECTRICAL	GROUP F-1	KITCHEN

B. TYPE OF CONSTRUCTION
 THE EXISTING BUILDING IS TYPE II-B CONSTRUCTION (NON-COMBUSTIBLE, NON-FIRE-RATED).

C. EXISTING BUILDING OCCUPANCY

BUILDING MIXED OCCUPANCY DIAGRAM (NO CHANGE)

LEVEL	A-2/A-3	F-1	B
LEVEL 1	8,294 sf	8,294 sf	27,067 sf
LEVEL 2			29,016 sf

D. (E) SEPARATION OF OCCUPANCIES REQUIREMENT
 PER CBC TABLE 508.3.3 - BUILDING WITH SPRINKLER SYSTEM
 A: B = 1-HR
 A: F-1 = 1-HR
 B: F-1 = 0
 THIS PROJECT SHALL MAINTAIN ANY EXISTING FIRE SEPARATION

E. FIRE RESISTANCE RATING FOR BUILDING ELEMENTS
 PER CBC TABLE 601

BUILDING ELEMENTS	STRUCT. FRAME	BEARING WALLS	EXTERIOR WALLS	INTERIOR WALLS	FLOOR & ROOF
FIRE-RESIST RATING	0	0	SEE TABLE 602	0	0

F. (E) MEANS OF EGRESS
 OCCUPANT LOAD FACTOR (OLF)

USE	OLF (SF/PERSON)
DINING AND CONFERENCE	15
COMMERCIAL KITCHEN	200
CLASSROOMS	20
OFFICE	100
STORAGE/MECHANICAL/SERVICE	300

OCCUPANT LOAD PER LEVEL

LEVEL	OCCUPANT LOAD	NUMBER OF EXITS REQ'D PER CBC 1019.1	NUMBER OF EXITS PROVIDED	NUMBER OF ACS EXITS REQ'D	NUMBER OF ACS EXITS PROVIDED
1	1003	4	15	3	15
2	410	2	4	2	4

CBC TABLE 1016.1 EXIT ACCESS TRAVEL DISTANCE

OCCUPANCY TYPE	TRAVEL DISTANCE WITH SPRINKLER SYSTEM (FEET)
B	300
A-2 / A-3	250

CBC SECTION 1014.3 COMMON PATH OF EGRESS TRAVEL
 EXCEPTION 1, THE LENGTH OF A COMMON PATH OF EGRESS TRAVEL IN GROUP B, F AND S OCCUPANCIES SHALL NOT BE MORE THAN 100 FEET (30 480 MM), PROVIDED THAT THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.3.1.1.

CBC SECTION 404.8, IN OTHER THAN THE LOWEST LEVEL OF THE ATRIUM, WHERE THE REQUIRED MEANS OF EGRESS IS THROUGH THE ATRIUM SPACE, THE PORTION OF EXIT ACCESS TRAVEL DISTANCE WITHIN THE ATRIUM SPACE SHALL NOT EXCEED 200 FEET.

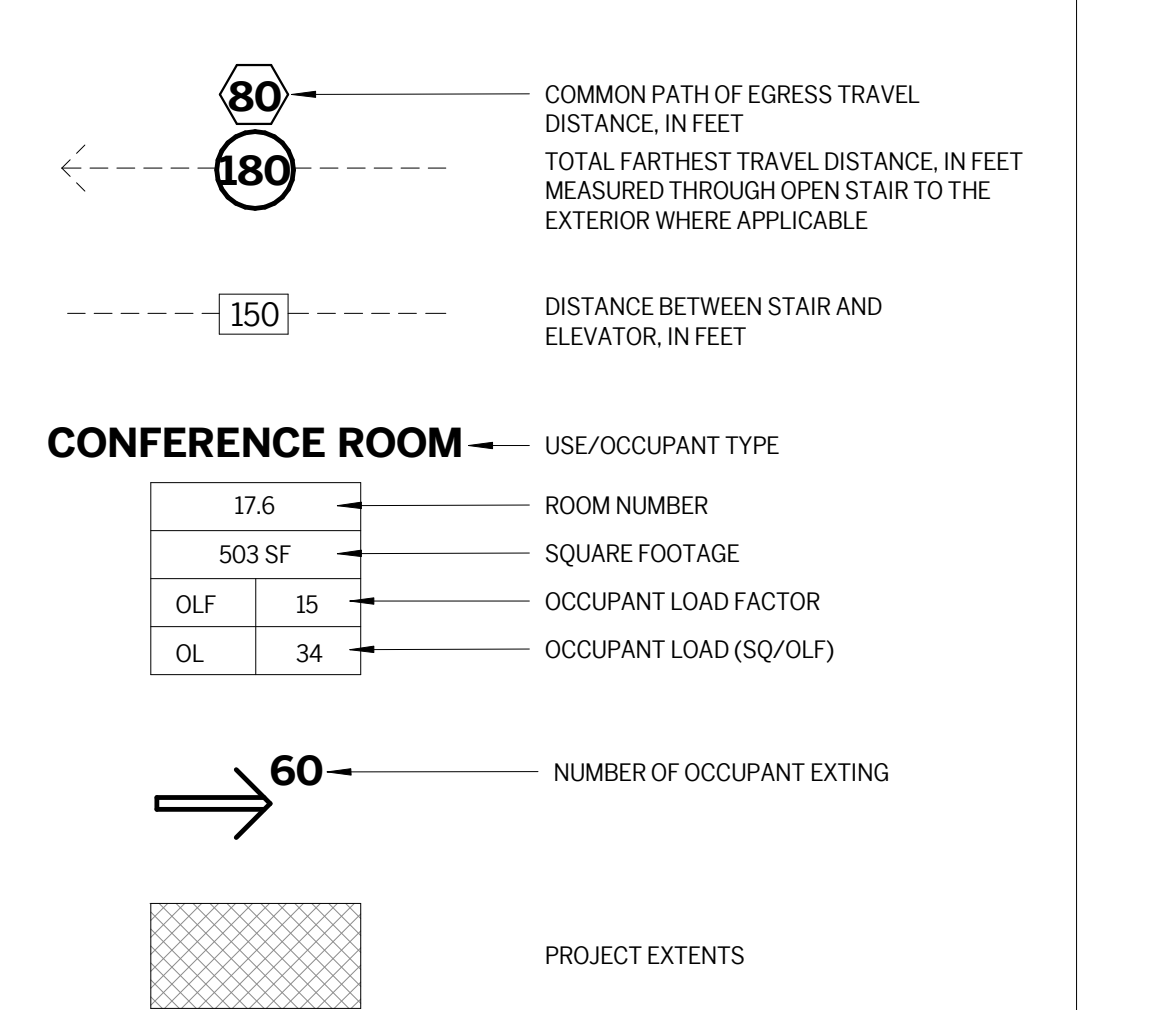
THE TOTAL (E) TRAVEL DISTANCE THROUGH THE ATRIUM IN THIS PROJECT IS 165'-6"

G. (E) CORRIDORS
 GROUP B: ALL (E) HALLWAYS ARE FULLY SPRINKLERED, NON-RATED
 PER TABLE 17.3 CORRIDORS WALLS DO NOT REQUIRED FIRE-RESISTANT RATING WHEN BUILDING IS EQUIPPED THROUGHOUT WITH FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.3.1.1

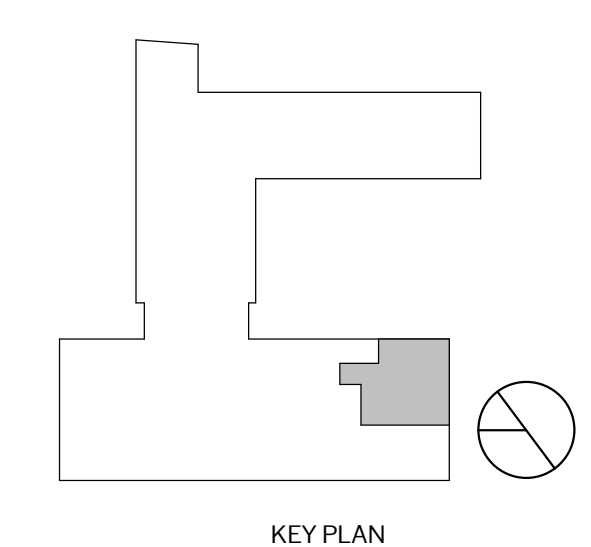
H. (E) GENERAL FIRE/LIFE SAFETY FEATURES

- (E) AUTOMATIC SPRINKLERS - FULL PROTECTION
- (E) FIRE EXTINGUISHERS - PROVIDED PER GFC 906
- (E) FIRE ALARM SYSTEM - AUTOMATIC SPRINKLER SYSTEM WATERFLOW SUPERVISION OF ALL CONTROL VALVES
 - DUCT SMOKE DETECTORS AT SMOKE DAMPERS AND MAIN CIRCULATION AIR DUCT PER GFC 609
 - OCCUPANT NOTIFICATION PER NFPA 72

LEGEND



REV DATE ISSUE

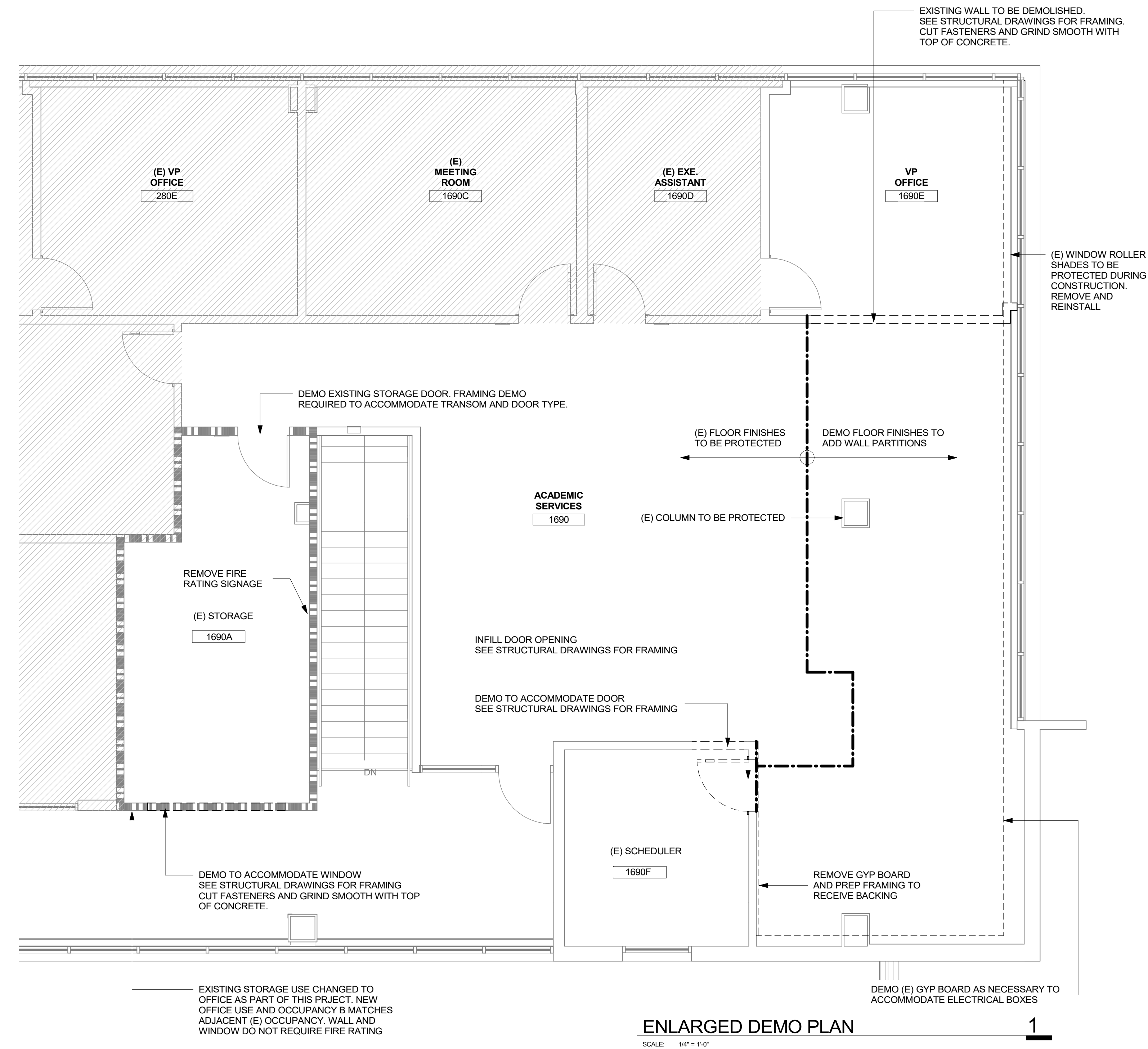
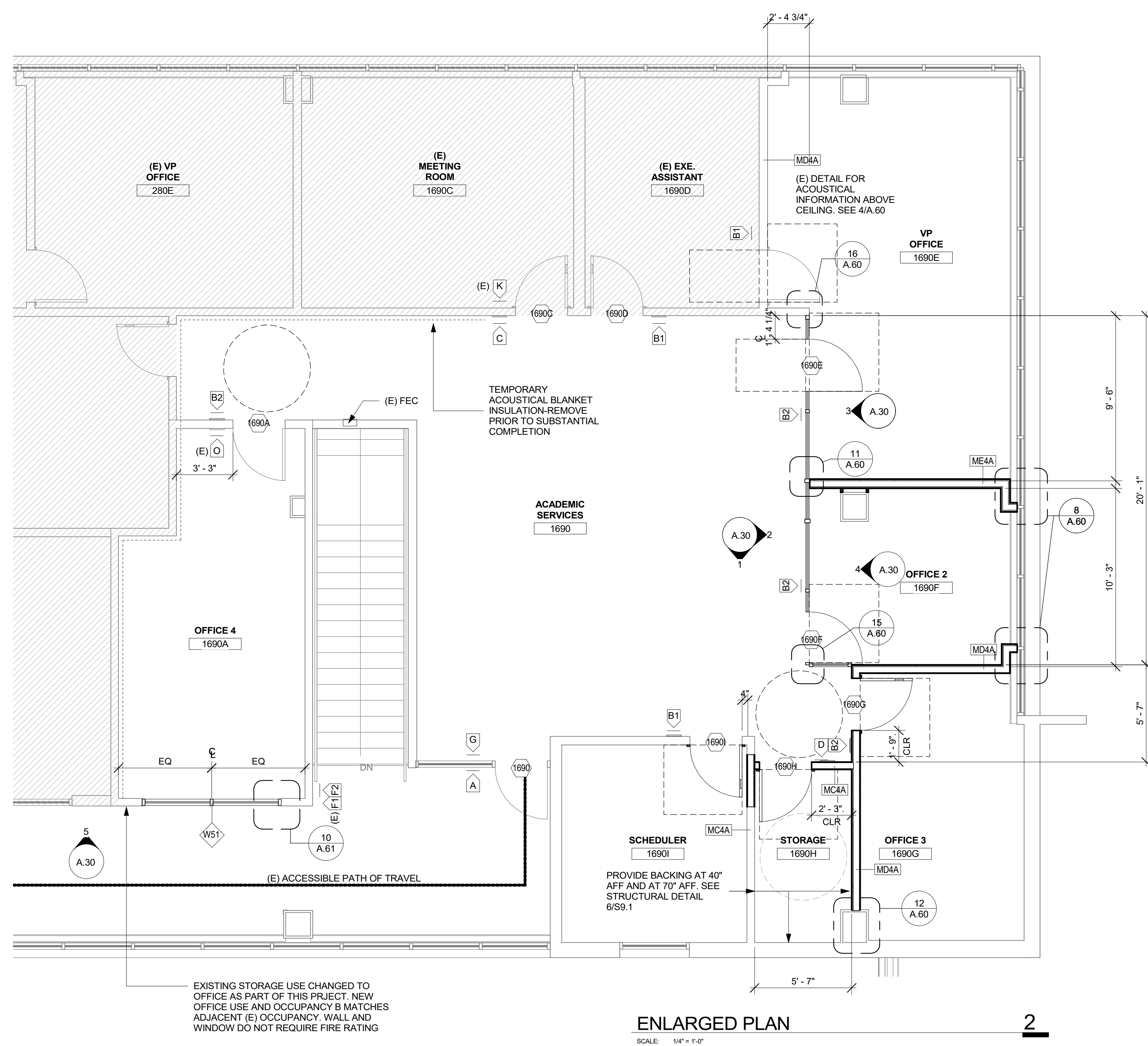


Administration Services Interior Improvements
 Student Services and Administration Building,
 Las Positas College
 3000 Campus Hill Drive, Livermore CA

PROJECT #: 20057100
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 CHECKED BY: K. MCCLAIN
 SCALE: As indicated

CODE/LIFE SAFETY

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GENERAL NOTES:

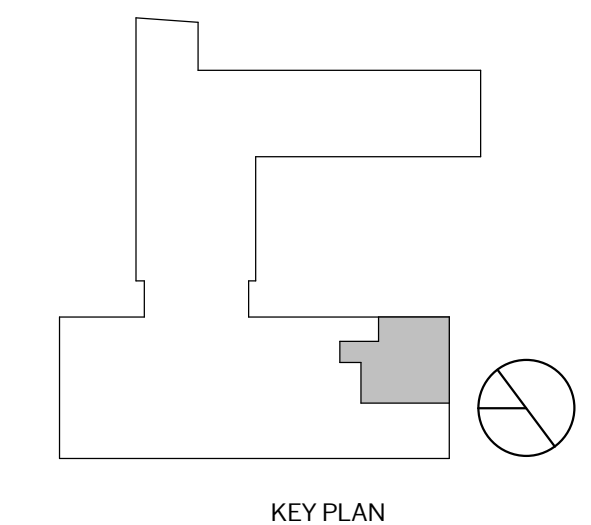
- SEE INTERIOR ELEVATIONS FOR EXTENT OF SPECIAL WALL FINISHES.
- SEE INTERIOR ELEVATIONS FOR ACCESSORIES AND EQUIPMENT LOCATIONS.
- ALL ITEMS NEW UNLESS OTHERWISE NOTED.
- FURNITURE SHOWN FOR REFERENCE ONLY.
- ALL DIMENSIONS ARE TO FACE OF STUDS, U.N.O.
- LOCATE DOOR OPENING AS SHOWN IN DOOR DIAGRAM A.50
- SEE A.50 FOR SIGNAGE SCHEDULE, TYPES, AND DETAILS.
- EXISTING SIGNAGE TO REMAIN OR BE PRESERVED AND REINSTALLED
- SEE A.50 FOR DOOR/WINDOW TYPES
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA

LEGEND

- (E) OFFICE SPACE WITHOUT INTERIOR IMPROVEMENTS
- (E) EXTERIOR ALUMINUM PANEL SYSTEM ON 6" METAL STUD
- (E) EXTERIOR GFRG PANEL SYSTEM WITH INTERIOR METAL STUD FURRING
- (E) INTERIOR METAL STUD WALL
- (E) INTERIOR 1-HR FIRE RATED WALL, SEE 4/A.40
- INTERIOR METAL STUD ACOUSTICAL PARTITION, SEE A.40
- DEMOUNTABLE GLASS PARTITION, SEE A.40
- DIVISION LINE BETWEEN THE FLOOR TO PROTECT AND TO DEMO
- SIGNAGE, SEE A.50
- WALL SECTIONS AND TYPES, SEE A.40
- DOOR TYPES, SEE A.50
- WINDOW TYPES, SEE A.50

FOR EXISTING PATH OF TRAVEL ACCESSIBLE ELEMENTS SEE REFERENCE SHEET A.02 IN "P.O.T. REFERENCE DRAWINGS" FOLDER

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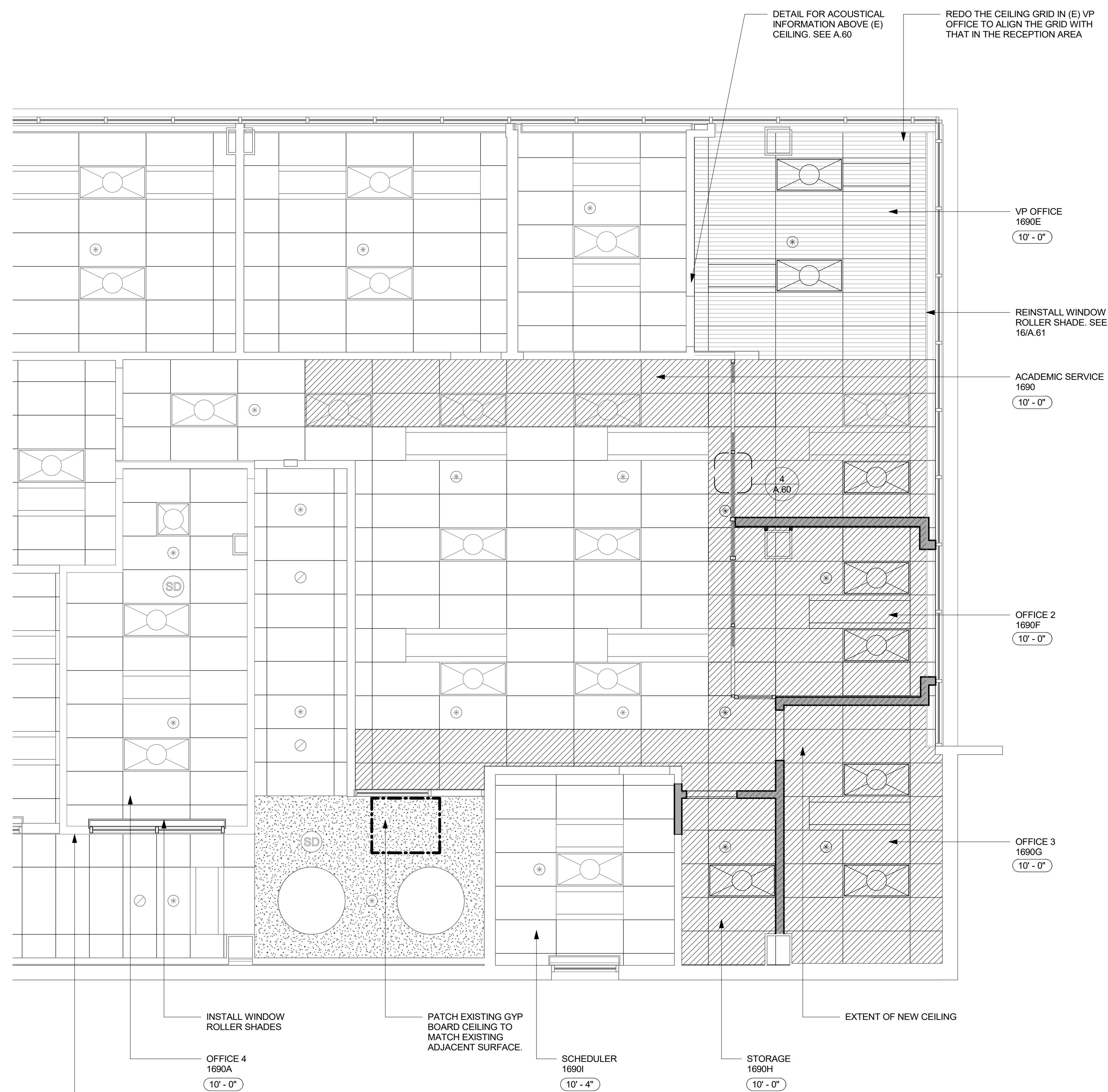


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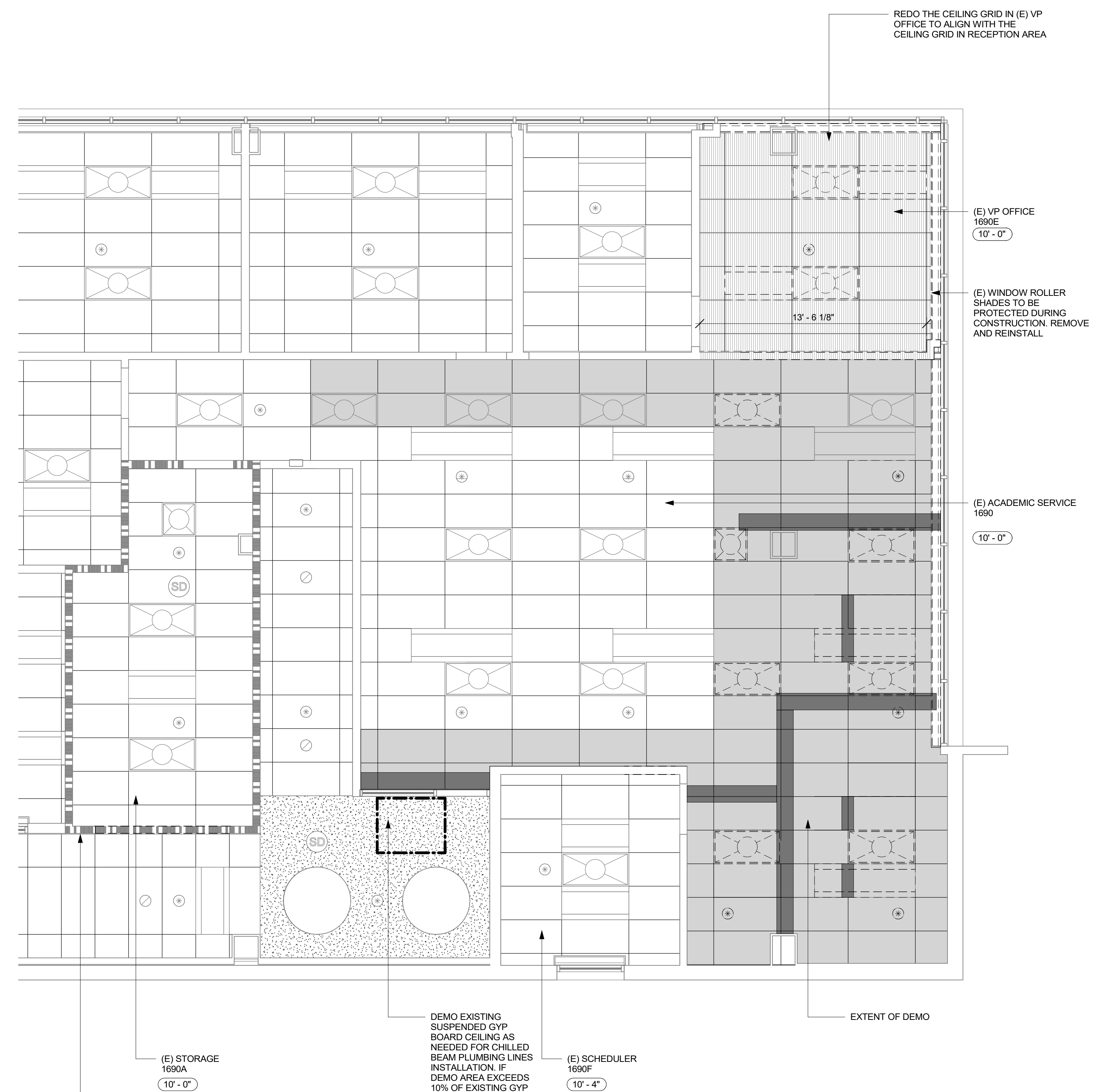
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ENLARGED DEMO AND FLOOR PLAN

A.20



REFLECTED CEILING PLAN 2
 SCALE: 1/8" = 1'-0"



REFLECTED CEILING DEMO PLAN 1
 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. PROTECT ALL EXISTING HVAC EQUIPMENTS, DUCTS, PIPES, AND DEVICES WHEN POSSIBLE

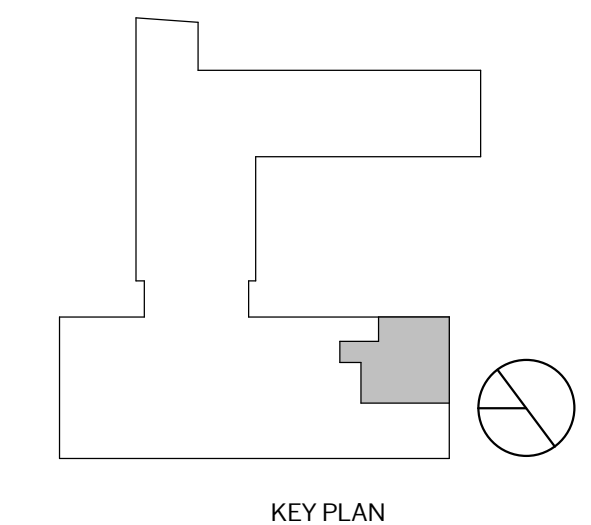
LEGEND:

- REMOVE CEILING TILE AS REQUIRED TO RELOCATED HVAC EQUIPMENT. MAINTAIN ALL CEILING GRID ELEMENTS AND COMPONENTS, INCLUDING SEISMIC ATTACHMENTS WHEN POSSIBLE. CEILING TILES AND LIGHTING FIXTURES WILL BE REINSTALLED AFTER HVAC EQUIPMENT INSTALLATION.
- DEMO EXISTING CEILING SYSTEM INCLUDING ALL SEISMIC ATTACHMENTS
- EXTENT OF AREA WHERE CEILING GRID ELEMENTS AND COMPONENTS ARE AFFECTED (55 SF < 10% of 1122 SF EXISTING RECEPTION AREA CEILING). IF AREA AFFECTED EXCEEDS 10% OF RECEPTION AREA CEILING, DEMO ENTIRE CEILING SYSTEM INCLUDING ALL SEISMIC ATTACHMENTS
- EXTENT OF NEW CEILING
- EXTENT OF EXISTING CEILING WITH <10% OF AREA MODIFIED
- (E) SKYDOME FIXTURE
- (E) SMOKE DETECTOR
- RECESSED FLOURESCENT LIGHT, SED. SEE DETAIL 1/E4.01
- CHILLED BEAM, SMD. SEE DETAIL 2/M.52
- (E) SPRINKLER HEAD
- (E) WINDOW ROLLER SHADE
- SPRINKLER HEAD
- WINDOW ROLLER SHADE

CEILING FINISHES:

- (E) GYPSUM BOARD
- (E) 2'x4' ACT TILE
- 2'x4' ACT TILE, SEE SHEET A.62

REV	DATE	ISSUE
5	Date 5	Revision 5



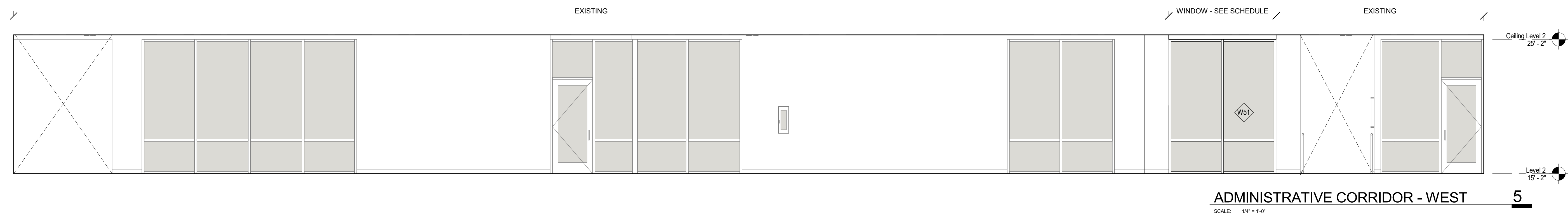
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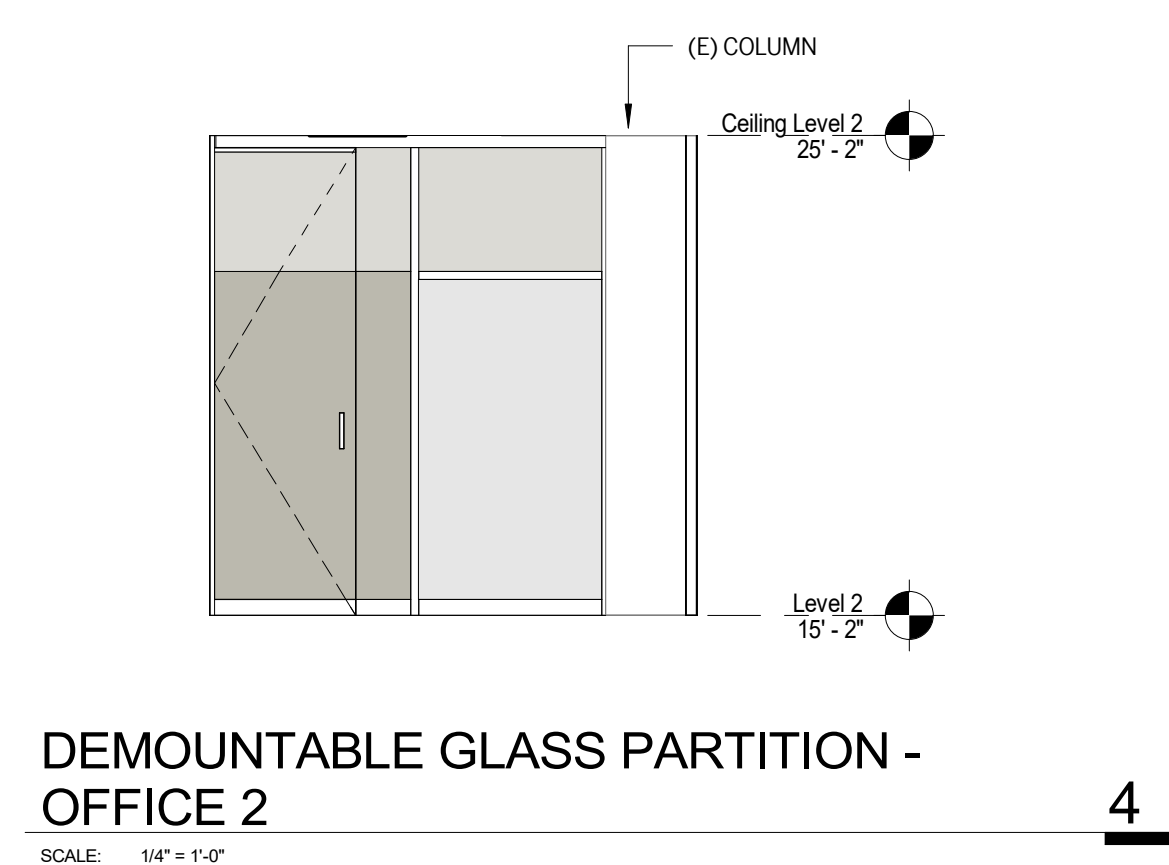
ENLARGED DEMO AND NEW REFLECTED CEILING PLAN

GENERAL NOTES:

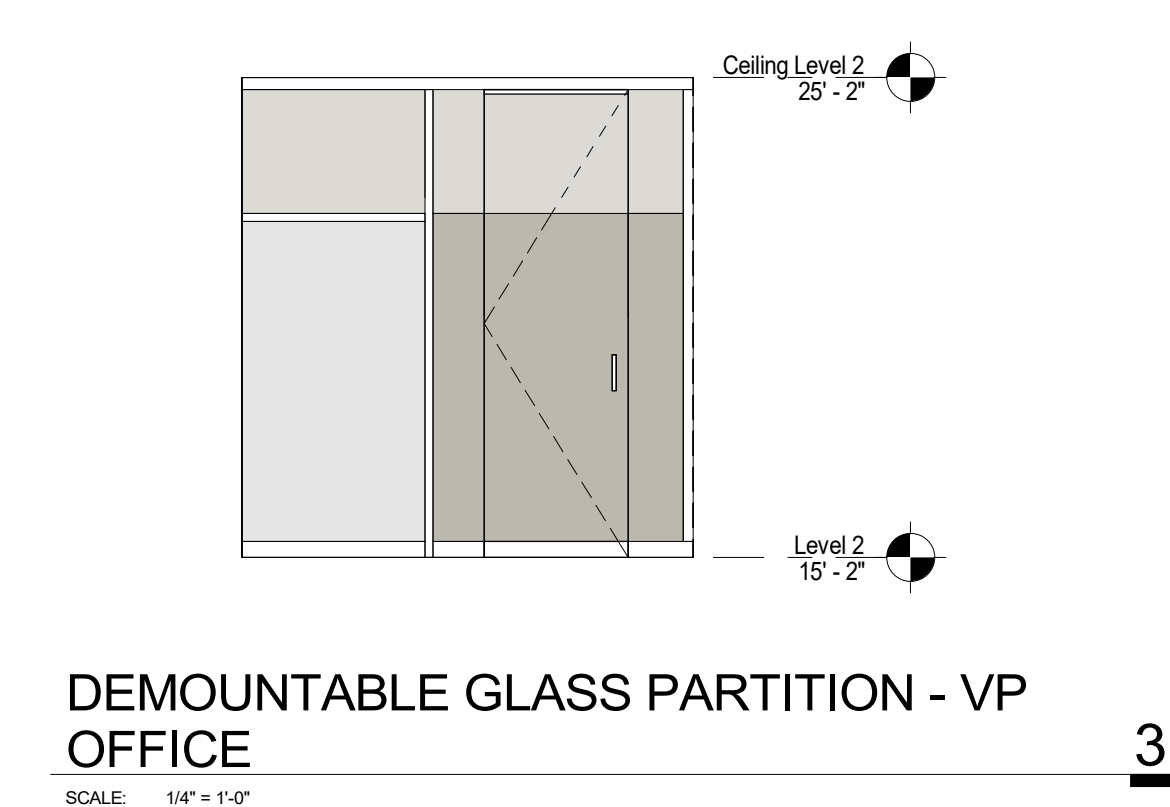
1. REFER TO FINISH PLANS FOR ADDITIONAL NOTES AND INFORMATION
2. SEE SHEET A.50 FOR DOOR SCHEDULE
3. SEE SHEET A.50 FOR WINDOW AND ALUMINUM-FRAMED STOREFRONT SCHEDULE
4. SEE SHEET A.20 FOR REFLECTED CEILING PLANS
5. SEE SHEET A.50 FOR SIGNAGE DETAILS



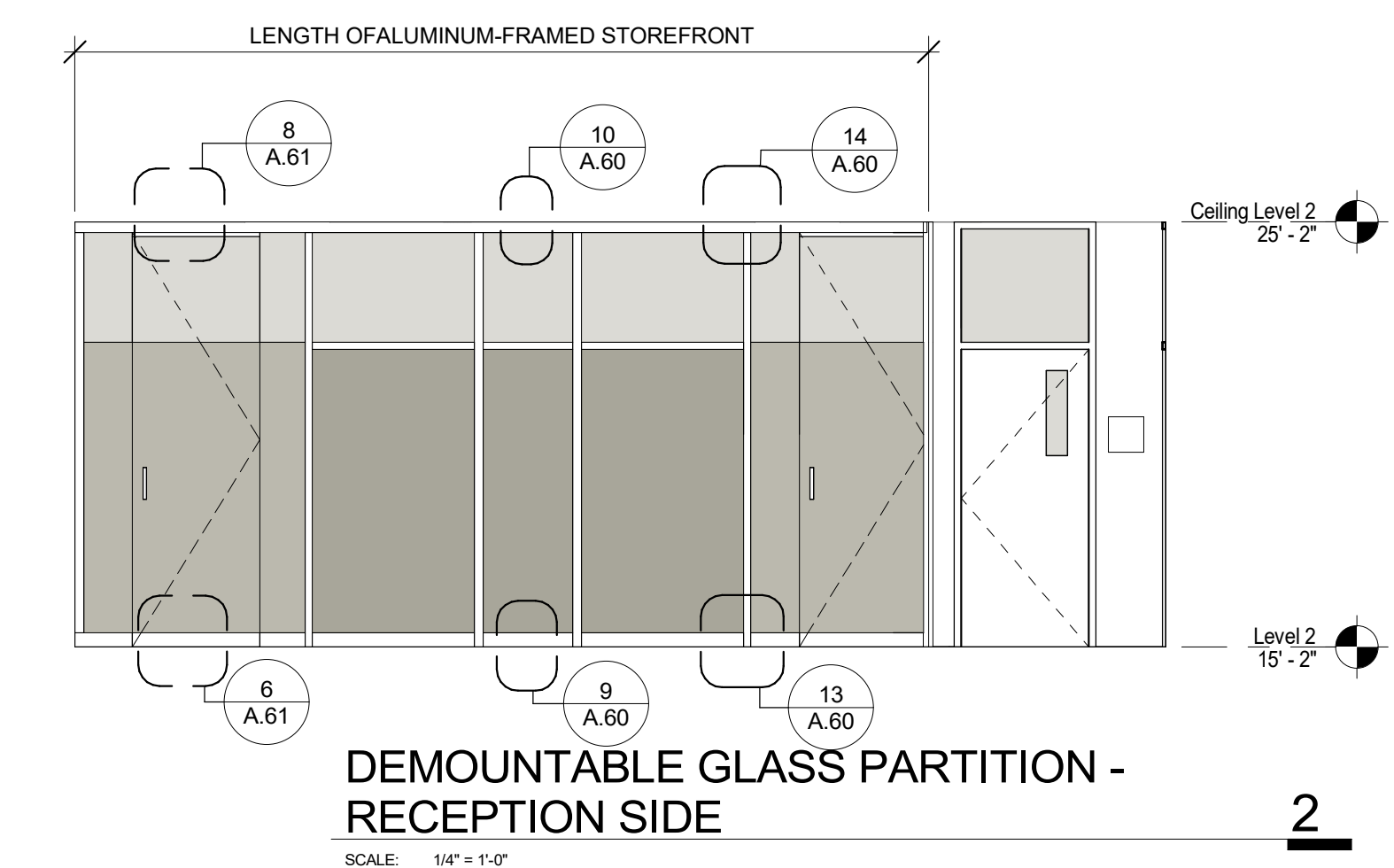
ADMINISTRATIVE CORRIDOR - WEST 5
 SCALE: 1/4" = 1'-0"



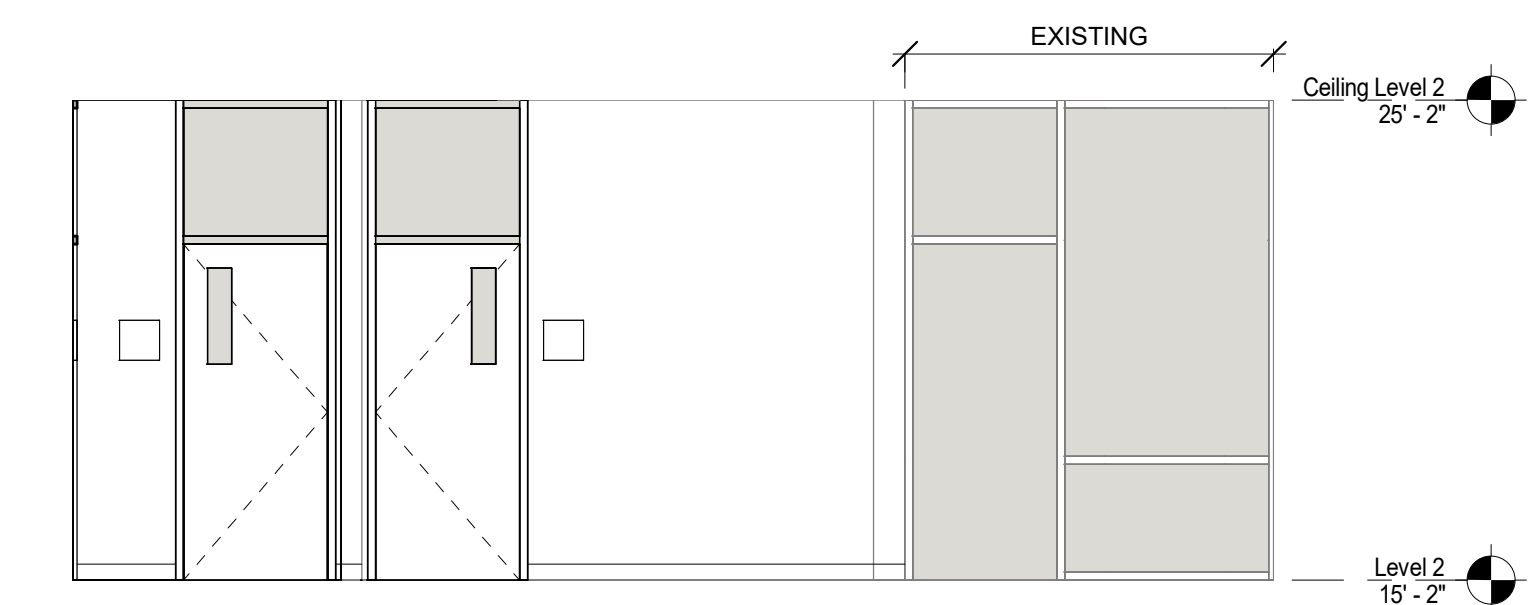
DEMOUNTABLE GLASS PARTITION - OFFICE 2 4
 SCALE: 1/4" = 1'-0"



DEMOUNTABLE GLASS PARTITION - VP OFFICE 3
 SCALE: 1/4" = 1'-0"

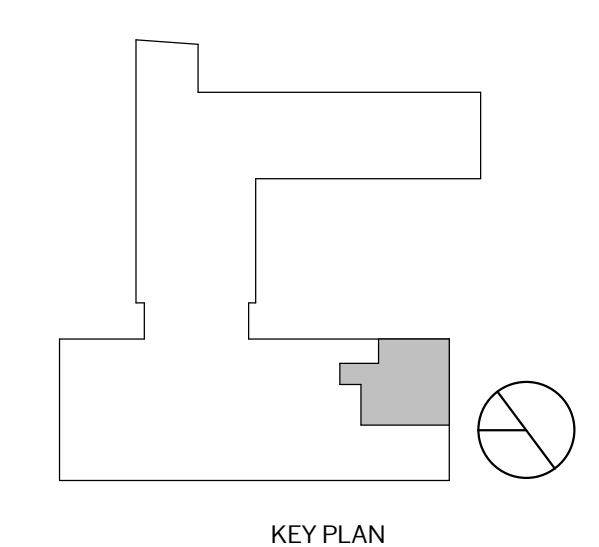


DEMOUNTABLE GLASS PARTITION - RECEPTION SIDE 2
 SCALE: 1/4" = 1'-0"



ADMINISTRATIVE SUITE 1
 SCALE: 1/4" = 1'-0"

REV	DATE	ISSUE

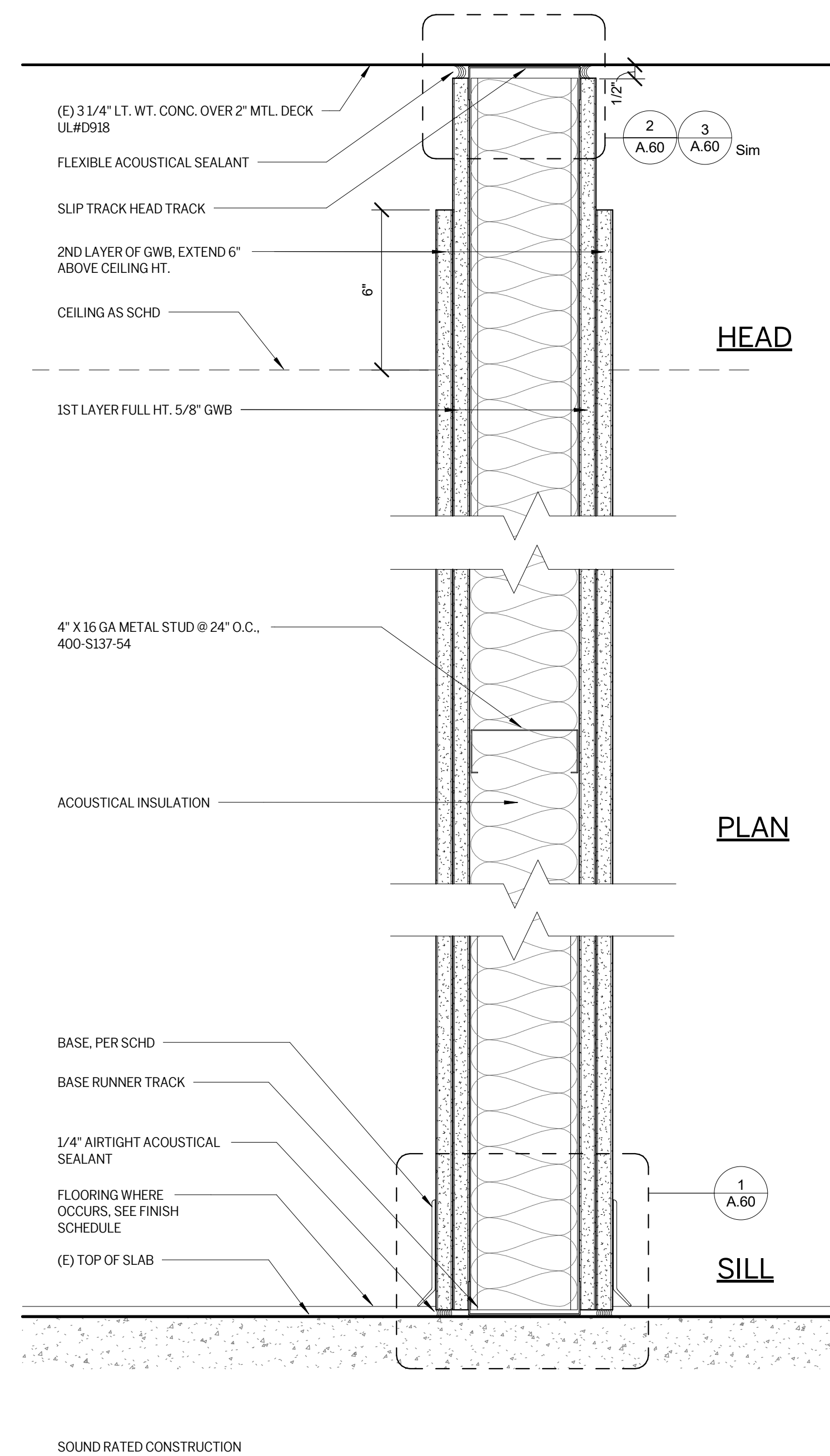


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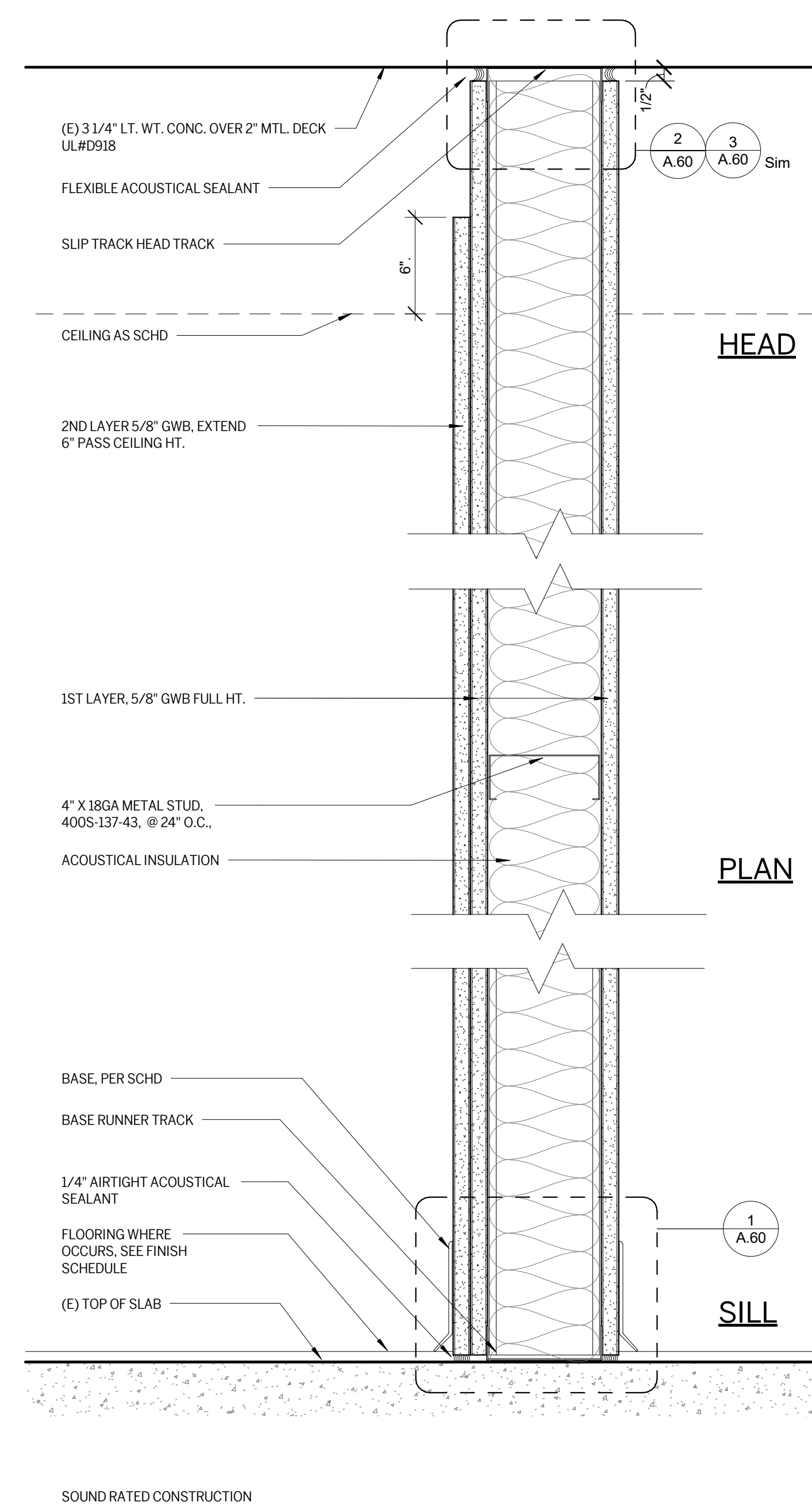
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INTERIOR ELEVATIONS

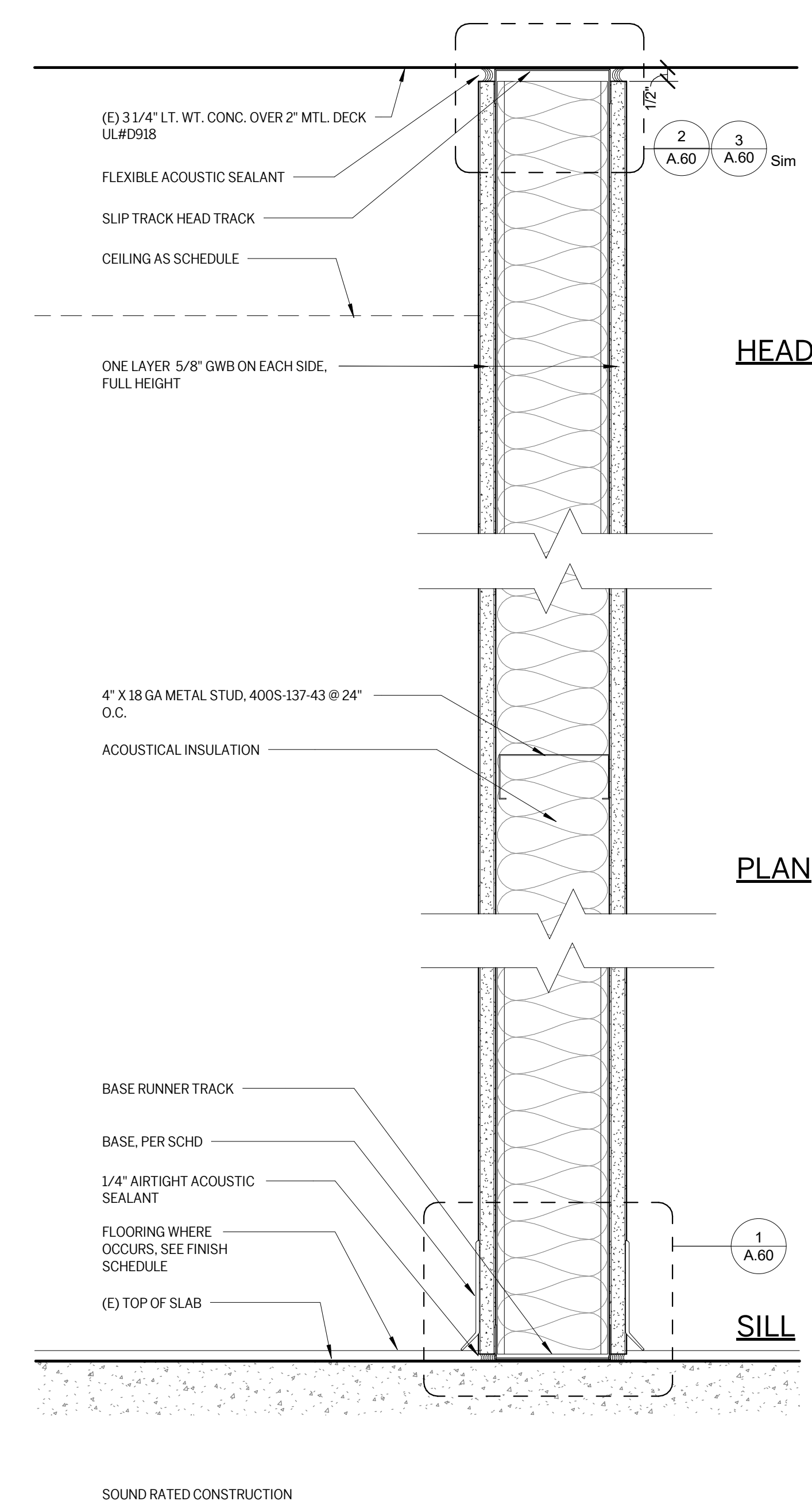
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TYPE ME4A - DOUBLE LAYER GYP - 2 SIDED
 SCALE: 3" = 1'-0" **3**

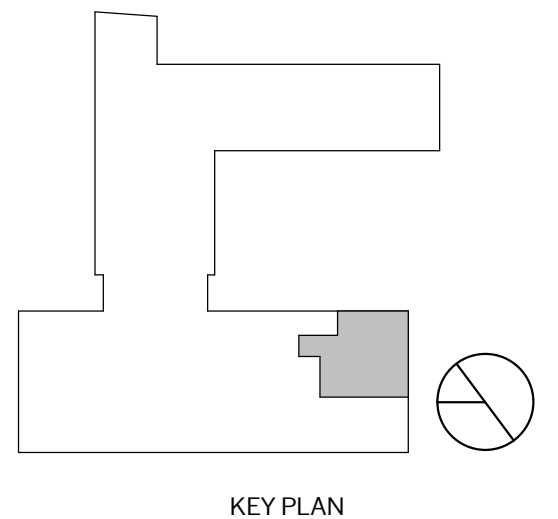


TYPE MD4A - 2/1 LAYER GYP BD.
 SCALE: 3" = 1'-0" **2**



TYPE MC4A - SINGLE LAYER GYP - 2 SIDED
 SCALE: 3" = 1'-0" **1**

REV	DATE	ISSUE



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 SCALE: 3" = 1'-0"

ACOUSTICAL PARTITION SECTIONS AND TYPES

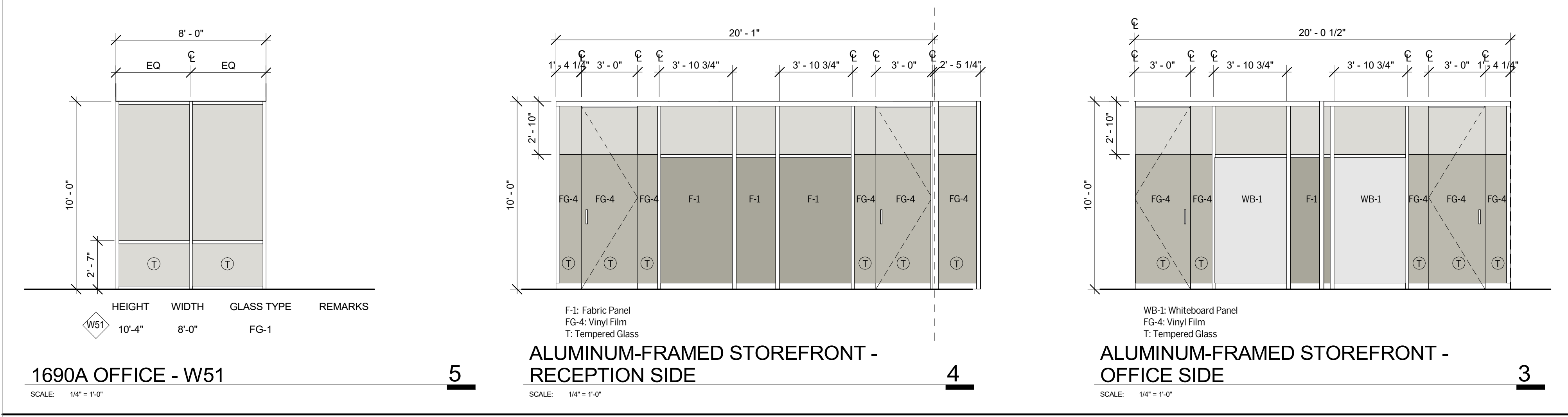
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Level	DOOR NO.	Room Name	DOOR							FRAME		DETAILS			HARDWARE GROUP	FIRE RATING	REMARKS
			TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD	JAMB	THRESHOLD			
Level 2	1690E	VP OFFICE	H	3'-0"	9'-0"	1/2"	GL		S/C/S	ALUM	FF	8/A.61	8/A.61	8/A.61	03		
Level 2	1690F	OFFICE 2	H	3'-0"	9'-0"	1/2"	GL		S/C/S	ALUM	FF	8/A.61	8/A.61	8/A.61	03		
Level 2	1690G	OFFICE 3	C	3'-0"	7'-0"	1 3/4"	WD	S	3	HM	P	4/A.62	3/A.61	2/A.61	02		1E
Level 2	1690H	STORAGE	A	3'-0"	7'-0"	1 3/4"	WD	S	3	HM	P	4/A.62	3/A.61	1/A.61	01		2
Level 2	1690I	SCHEDULER	C	3'-0"	7'-0"	1 3/4"	WD	S	3	HM	P	4/A.62	3/A.61	2/A.61	02		1E

DOOR DIAGRAM	DOOR GENERAL NOTES	DOOR REMARKS
	<p>1. THE PURPOSE OF THIS SHEET IS TO DESCRIBE AND ILLUSTRATE DOOR TYPES. NOT ALL DOOR TYPES SHOWN ARE NECESSARILY USED. SEE DOOR MARK SCHEDULE FOR DOOR TYPES USED.</p> <p>2. SEE FLOOR PLANS FOR DOOR SYMBOL REFERENCES.</p> <p>3. DOOR OPENING LOCATIONS: A. IMMEDIATELY (4") ADJACENT TO A FLANKING WALL U.O.N. B. AT THE CENTERLINE OF THE ROOM, U.O.N. CENTERED ON A GRID LINE. C. DOOR OPENINGS IN OTHER LOCATIONS ARE LOCATED BY DIMENSIONS.</p> <p>4. SEE SPECIFICATIONS FOR HARDWARE SCHEDULE AND DETAIL FOR HARDWARE MOUNTING INFORMATION.</p> <p>5. TYPICAL DOOR CONSTRUCTION U.O.N. ON SCHEDULE: WOOD (WD)-SOLID CORE WOOD DOOR, HOLLOW METAL (HM), ALUMINUM (ALUM).</p> <p>6. DOOR FRAME NOTES: A. DOOR FRAMES TO BE KNOCK-DOWN EXCEPT HM EXTERIOR DOOR FRAMES AND FIRE RATED DOOR FRAMES WHICH ARE WELDED FRAMES</p>	<p>7. ALL INTERIOR DOORS WITH FIRE-RATINGS GREATER THAN 20 MINUTE SHALL HAVE A NONCOMBUSTIBLE SILL WITH AN UNDERCUT OF 3/8" ABOVE THE SILL.</p> <p>8. ALL EXTERIOR DOORS SHALL HAVE METAL THRESHOLDS. SEE HARDWARE SCHEDULE AND DOOR DETAILS SHEETS.</p> <p>9. WHERE DOOR HOLD-OPEN DEVICES OCCUR AT WALLS, PROVIDE BACKING PLATE</p> <p>10. SEE THE SIGNAGE SCHEDULE FOR SIGNAGE REQUIREMENTS. FOR EXAMPLE, FOR EXIT DOORS PROVIDE A READILY VISIBLE DURABLE SIGN ON OR ADJACENT TO THE DOOR STATING "THIS DOOR MUST REMAIN UNLOCKED DURING BUSINESS HOURS". THE SIGN SHALL BE IN LETTERS NOT LESS THAN 1 INCH HIGH ON A CONTRASTING BACKGROUND.</p> <p>11. DOORS MUST BE MINIMUM 36" WIDE</p> <p>12. DOORS AND DOOR HARDWARE SHALL NOT REQUIRE FORCE GREATER THAN 5 LB. TO OPEN</p> <p>13. DOOR HARDWARE MUST NOT REQUIRE TWO-HAND OPERATION</p>



FRAME TYPES	DOOR ABBREVIATIONS
	<p>ALUM - ALUMINUM HM - HOLLOW METAL STEEL RUD - ROLL UP DOOR FLD - FOLDING DOOR P - PAINTED SS - STAINLESS STEEL STR - STOREFRONT SYSTEM WD - WOOD S - STAINED FF - FACTORY FINISH STL - STEEL S/C/S - STOREFRONT/CURTAINWALL SYSTEM MFR - MANUFACTURER GL - GLASS</p>



ADMIN SUITE - INTERIOR FINISH SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WINDOW SHADE	WALL FINISH				CEILING FINISH	REMARK	
					EAST	NORTH	SOUTH	WEST	ACT		
Level 2	1690	ACADEMIC SERVICES	C-1	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	
	1690A	OFFICE 4	C-3	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	
	1690E	VP OFFICE	C-3	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	
	1690F	OFFICE 2	C-3	RB-1	WC-2	P-1	GLAZ-1	P-1	P-1	ACT-3	
	1690G	OFFICE 3	C-3	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	
	1690H	STORAGE	C-1	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	
	1690I	SCHEDULER	C-3	RB-1	WC-2	P-1	P-1	P-1	P-1	ACT-3	

GENERAL NOTES:

- ALL HM DOOR / DOOR FRAME TO BE PAINTED WITH P-# SEMI-GLOSS FINISH ON DOOR FRAME
- ALL PAINT FINISH TO BE EGGSHELL, U.N.O.
- LOBBY AND HALLWAYS TO RECEIVE LEVEL 5 FINISH
- SEE INTERIOR ELEVATIONS & RCP FOR ACTUAL MATERIAL LAYOUT
- ALL ACOUSTICAL AND FABRIC FINISHES SHALL HAVE FLAME SPREAD CLASSIFICATION OF GLASS 1 PER CBC 802 AND TABLE 6A-8B
- (E) GROUND AND FLOOR SURFACE ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES, INCLUDING FLOORS, WALKS, RAMPS, CURB RAMPS AND STAIRS SHALL BE STABLE, FIRM AND SLIP-RESISTANT PER CBC 1124B.1
- CARPET ON FLOOR SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES SHALL HAVE A FIRM CUSHION, A MAXIMUM PILE HEIGHT OF 1/2" AND BE SECURELY ATTACHED.

LEGEND:

FLOOR FINISH
C-1 CARPET TILE 1
C-3 CARPET TILE 2

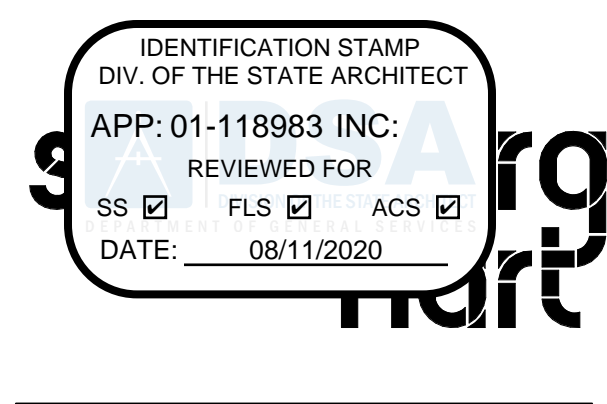
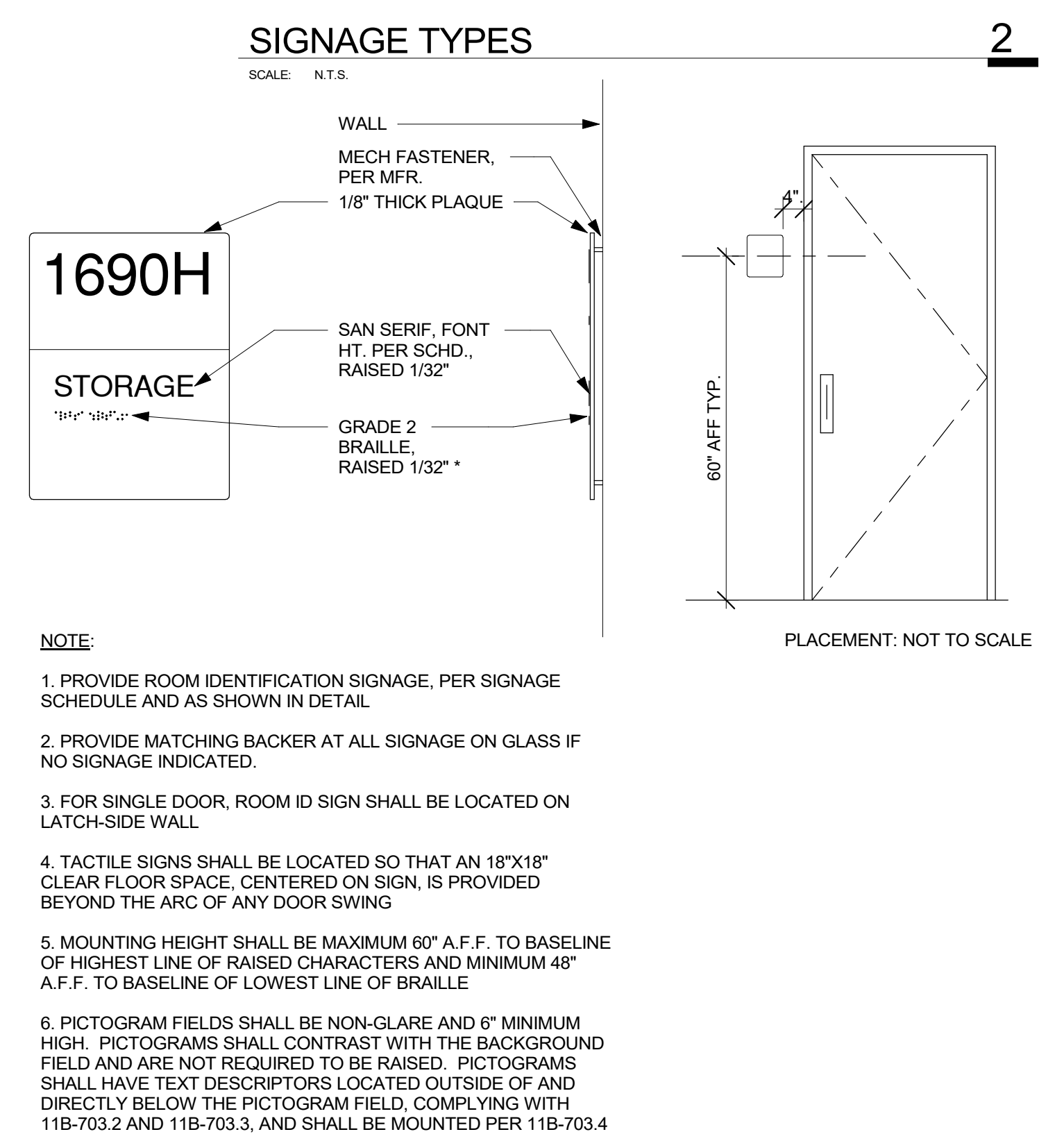
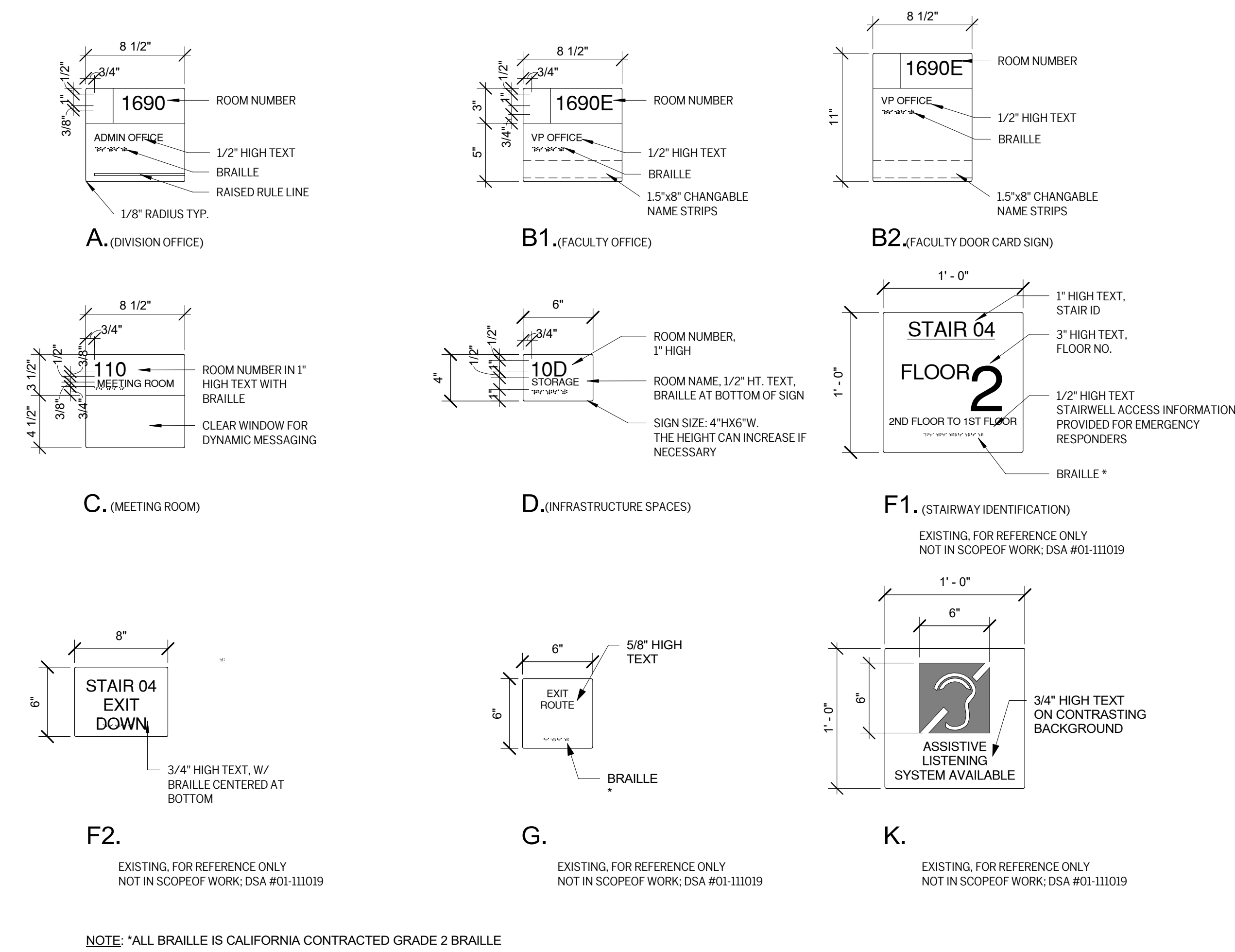
BASE FINISH
RB-1 RUBBER BASE

WINDOW SHADE
WC-2 MANUAL ROLLER SHADE

WALL FINISH
P-1 PAINT COLOR #1 ON GYP BOARD
KI LIGHTLINE BUTT GLAZED SYSTEM, SEE WINDOW SCHEDULE

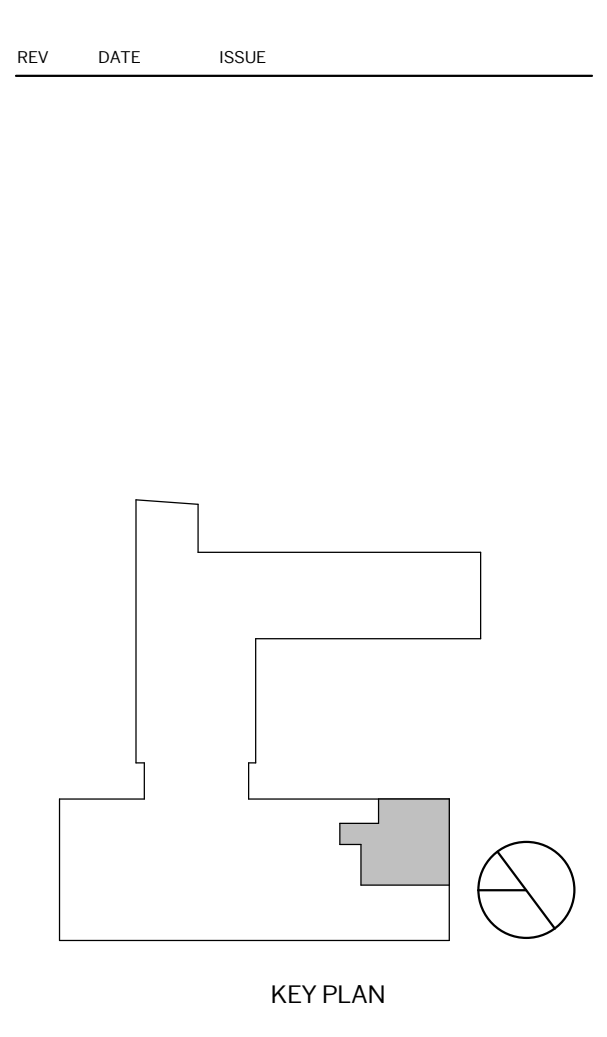
CEILING FINISH
ACT-3 2x4 ACOUSTICAL PANEL

ADMIN SUITE - SIGNAGE SCHEDULE					
ROOM NO.	LOCATION	DOOR NO.	TYPE	TEXT	
Level 2	1690	ACADEMIC SERVICES	1690	A/G	
	1690A	OFFICE 4	1690A	B1	
	1690C	(E) MEETING ROOM	1690C	C	
	1690D	(E) EXE. ASSISTANT	1690D	B1	
	1690E	VP OFFICE	1690E	B2	
	1690F	OFFICE 2	1690F	B2	
	1690G	OFFICE 3	1690G	B2	
	1690H	STORAGE	1690H	D	
	1690I	SCHEDULER	1690I	B1	



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Pleasanton, CA 94588

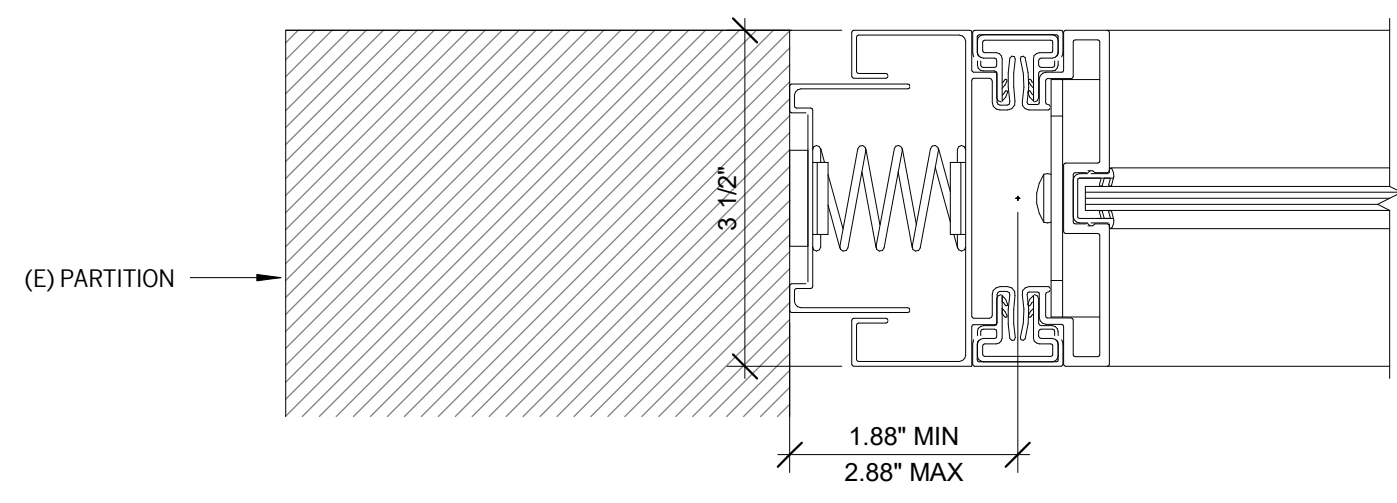
ARCHITECT
Steinberg Hart
125 S. Market St., Suite 110
San Jose, CA 95113



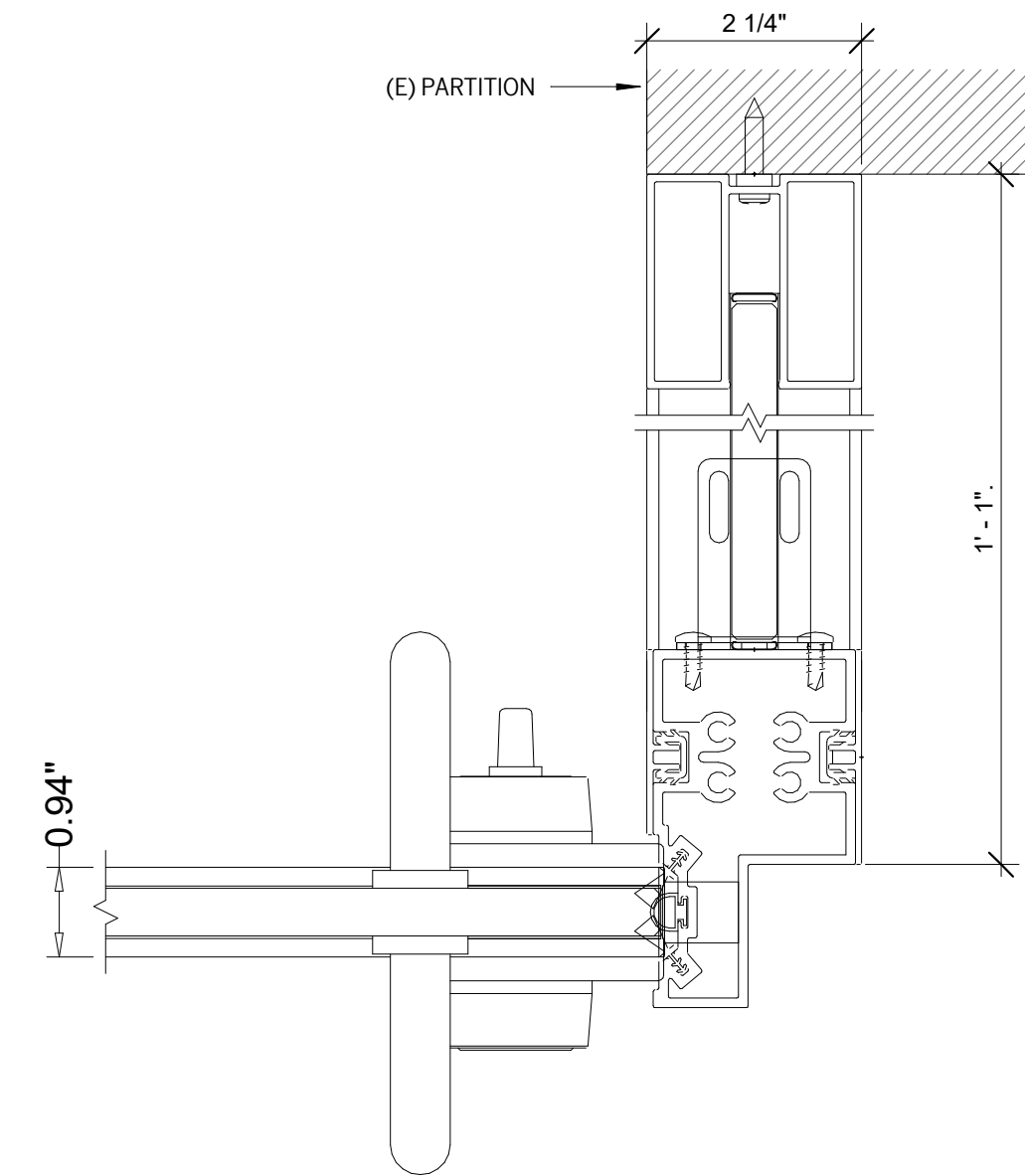
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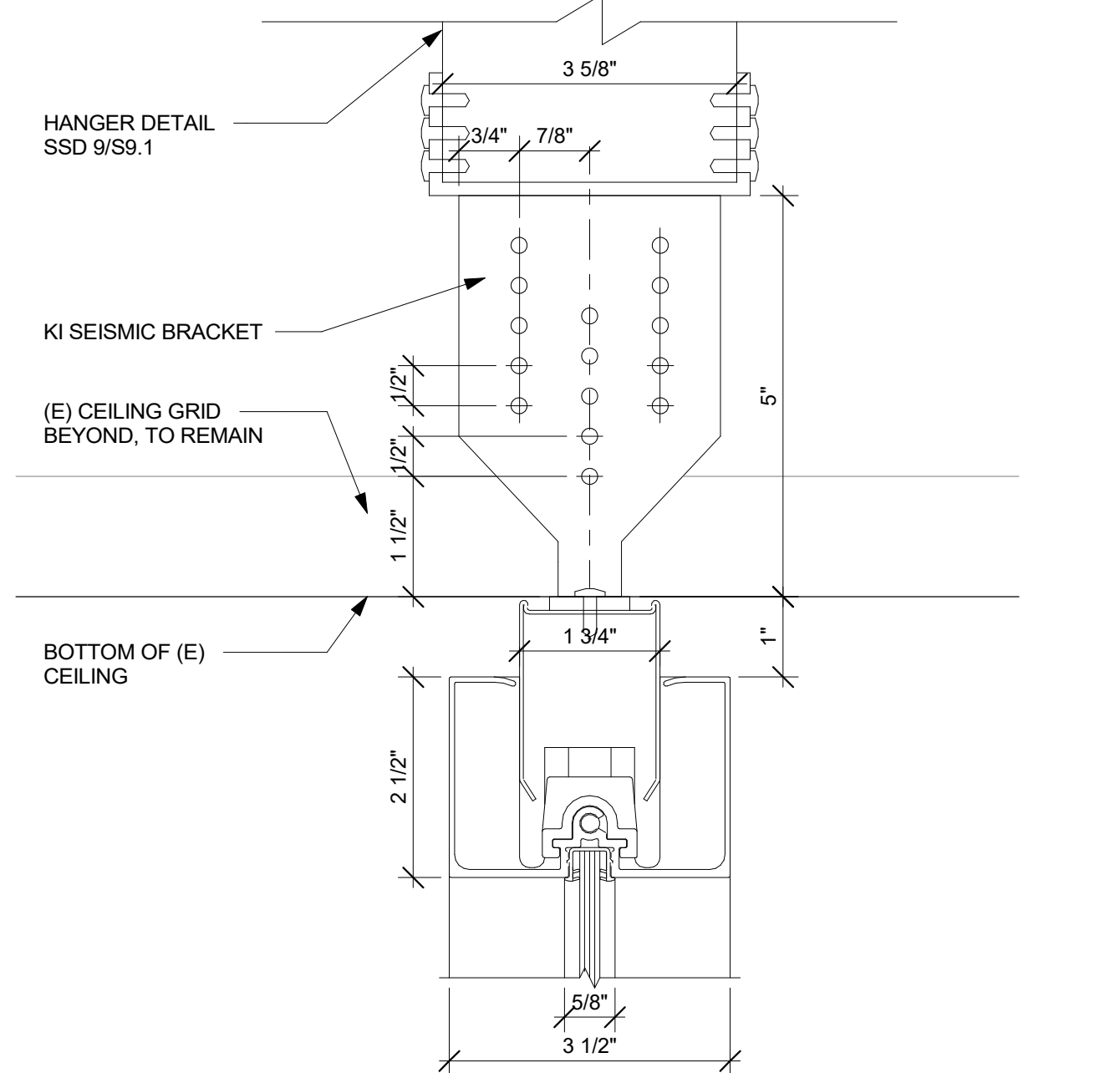
SCHEDULES



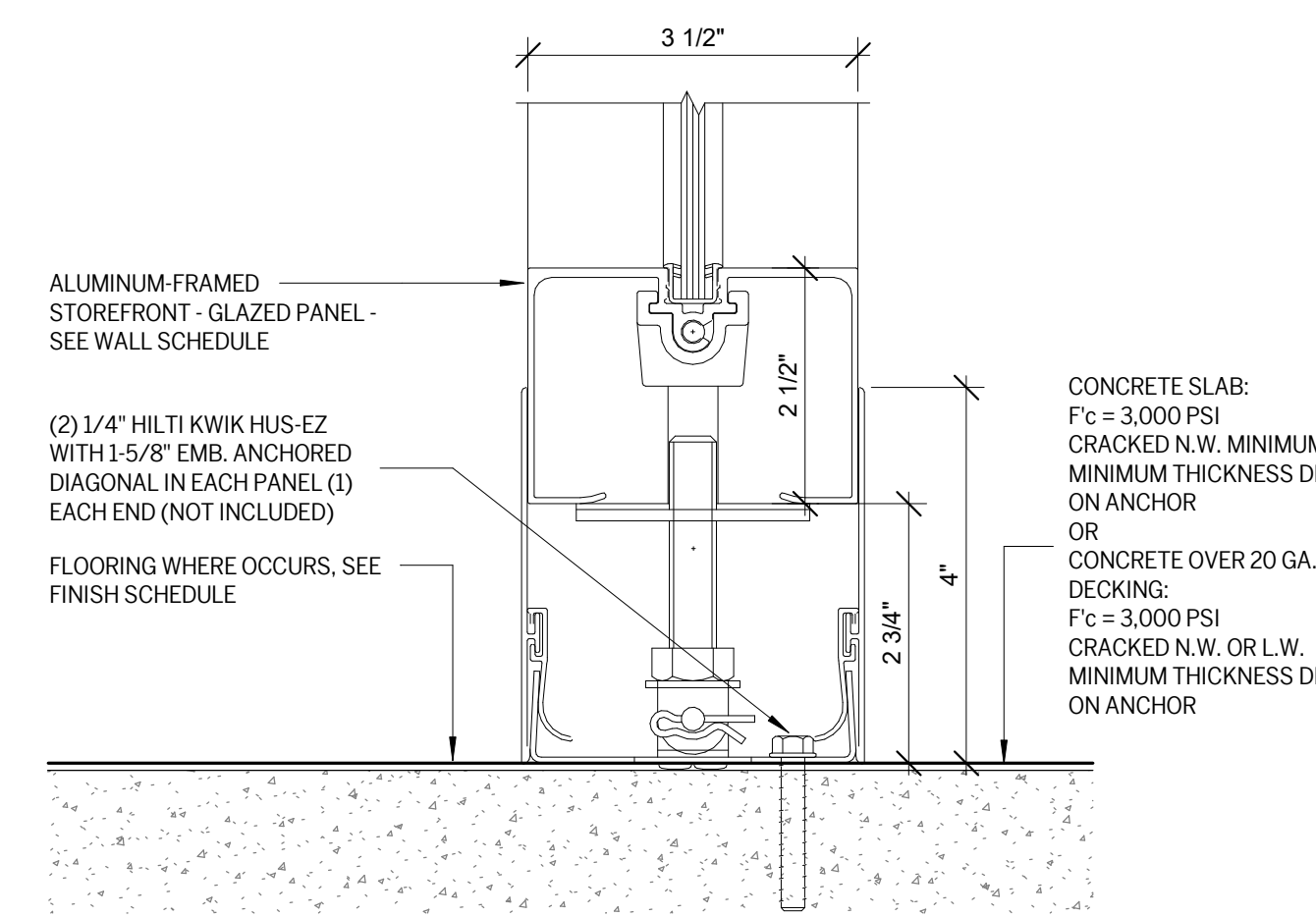
DEMOUNTABLE GLASS PARTITION - CONNECTION TO (E) PARTITION 16
 SCALE: 6" = 1'-0"



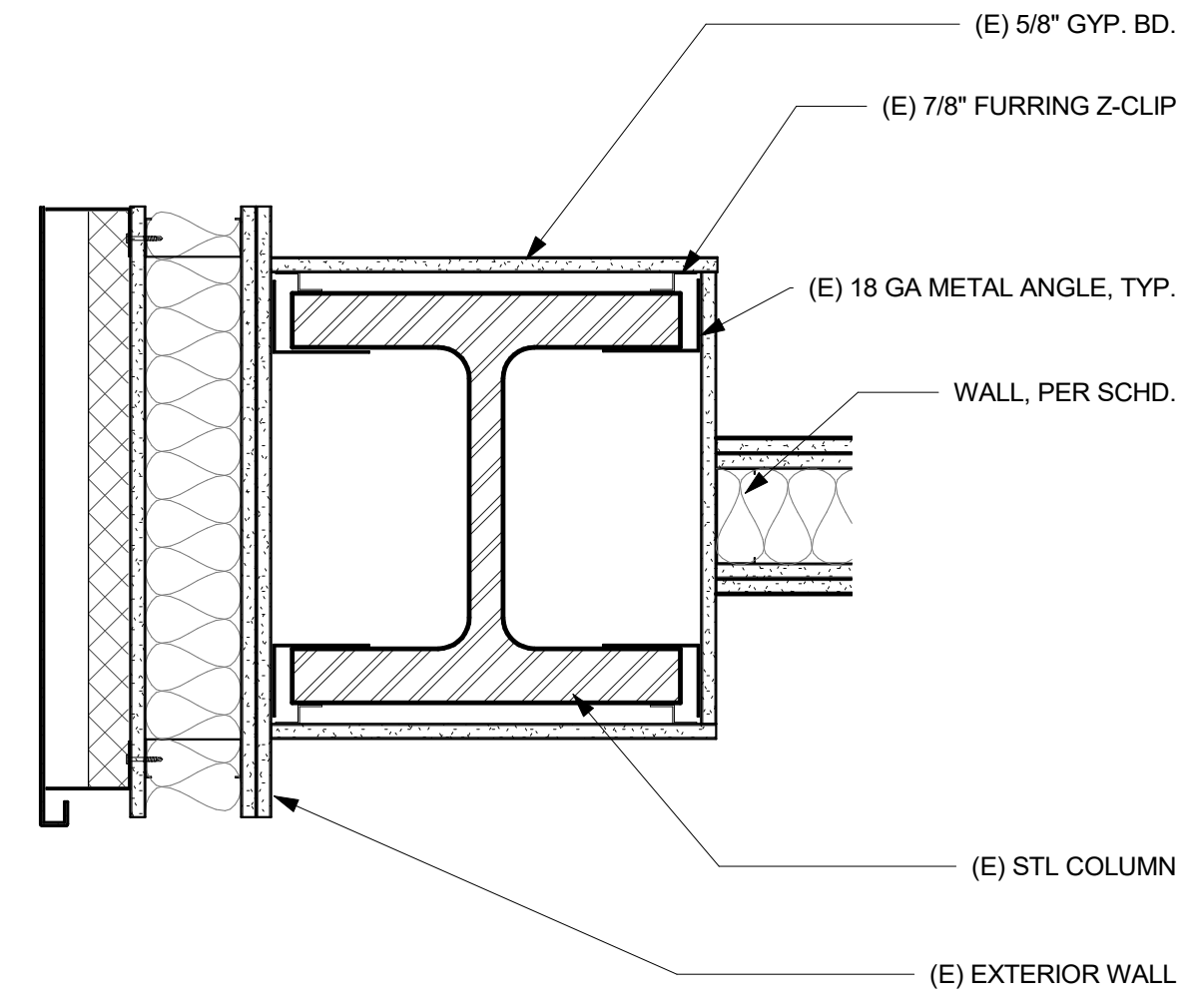
DEMOUNTABLE GLASS PARTITION - CORNER CONNECTION 15
 SCALE: 6" = 1'-0"



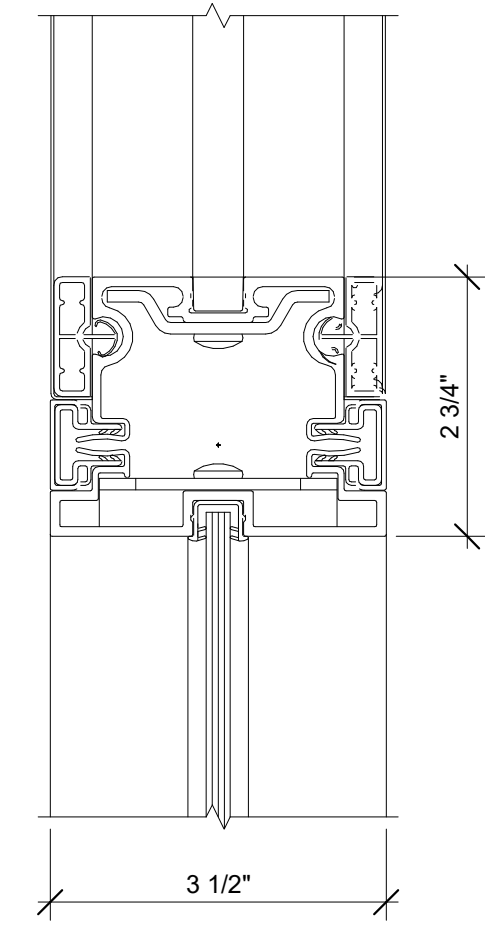
DEMOUNTABLE GLASS PARTITION - GLAZED PANEL DETAIL - HEADER 14
 SCALE: 6" = 1'-0"



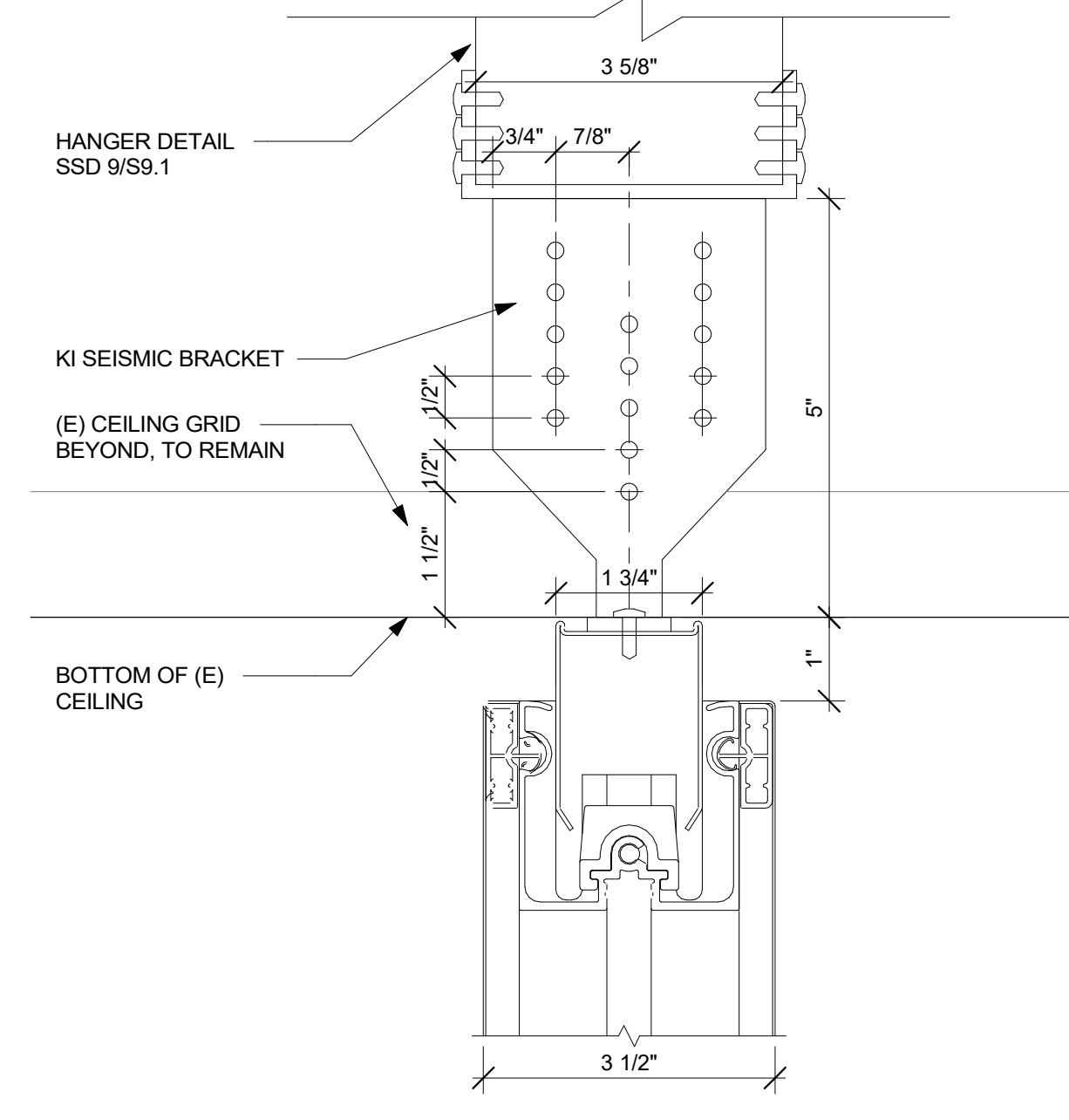
DEMOUNTABLE GLASS PARTITION - GLAZED PANEL DETAIL - FOOTER 13
 SCALE: 6" = 1'-0"



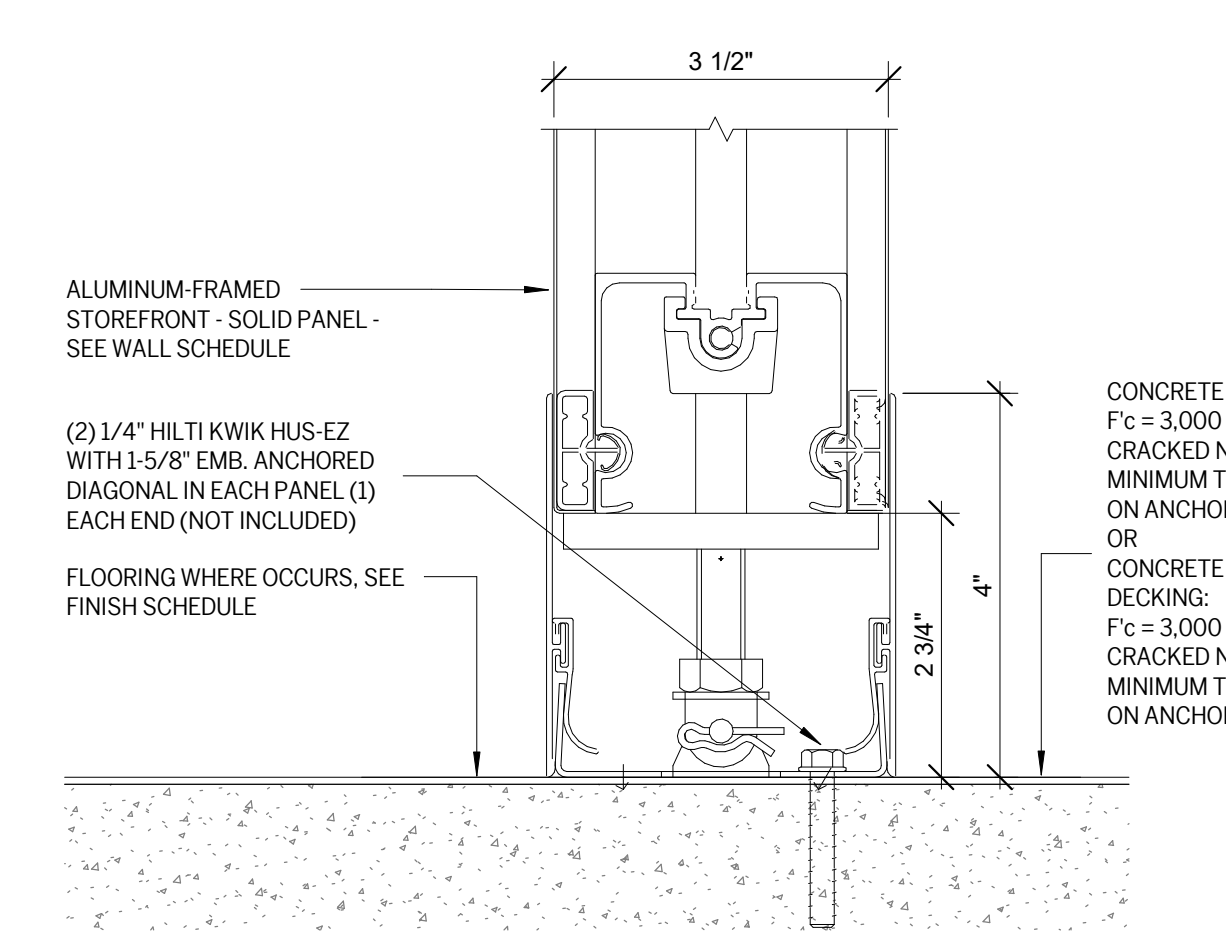
COLUMN FURRING 12
 SCALE: 1 1/2" = 1'-0"



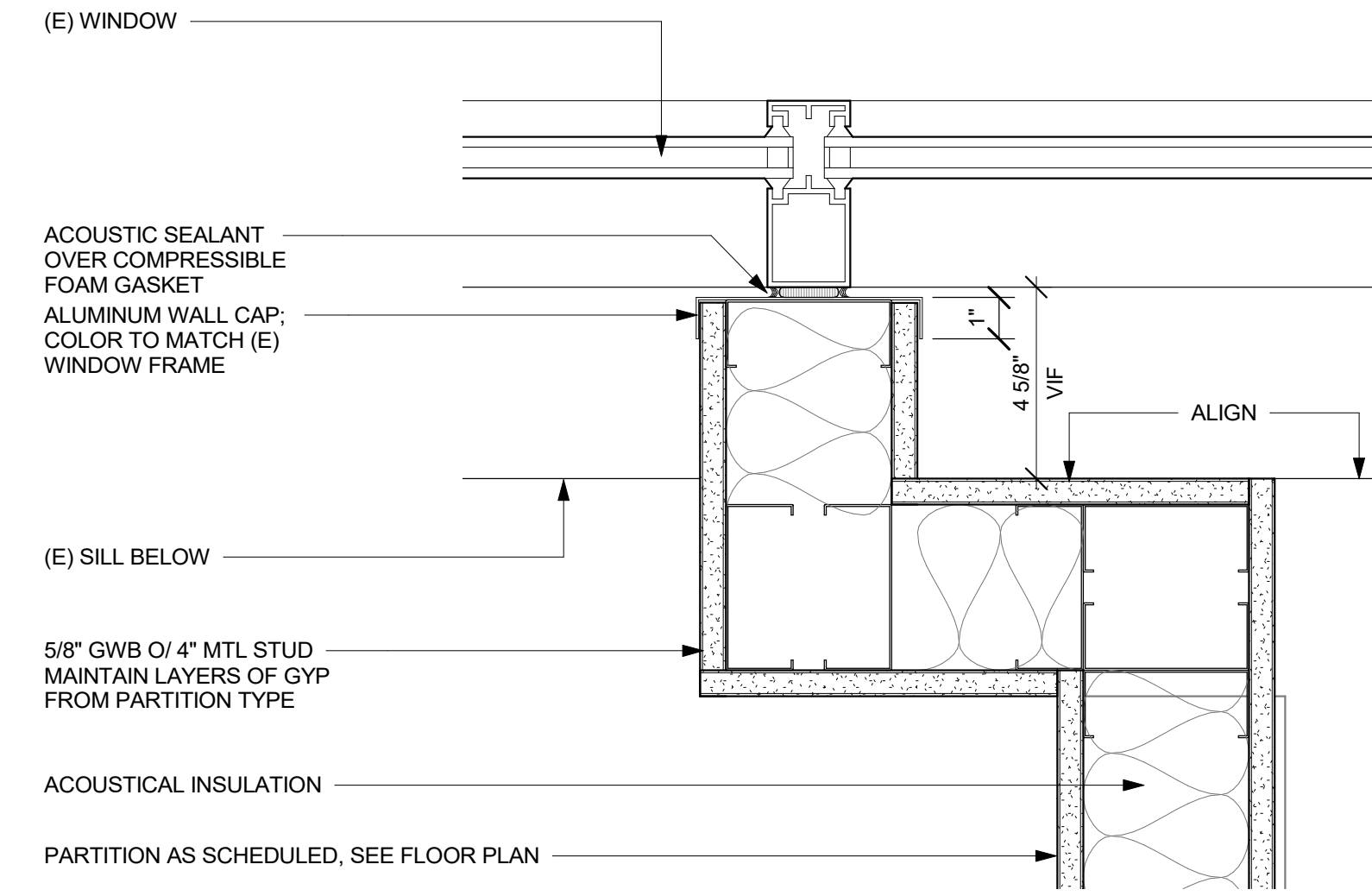
DEMOUNTABLE GLASS PARTITION - GLAZED TO SOLID PANEL CONNECTION 11
 SCALE: 6" = 1'-0"



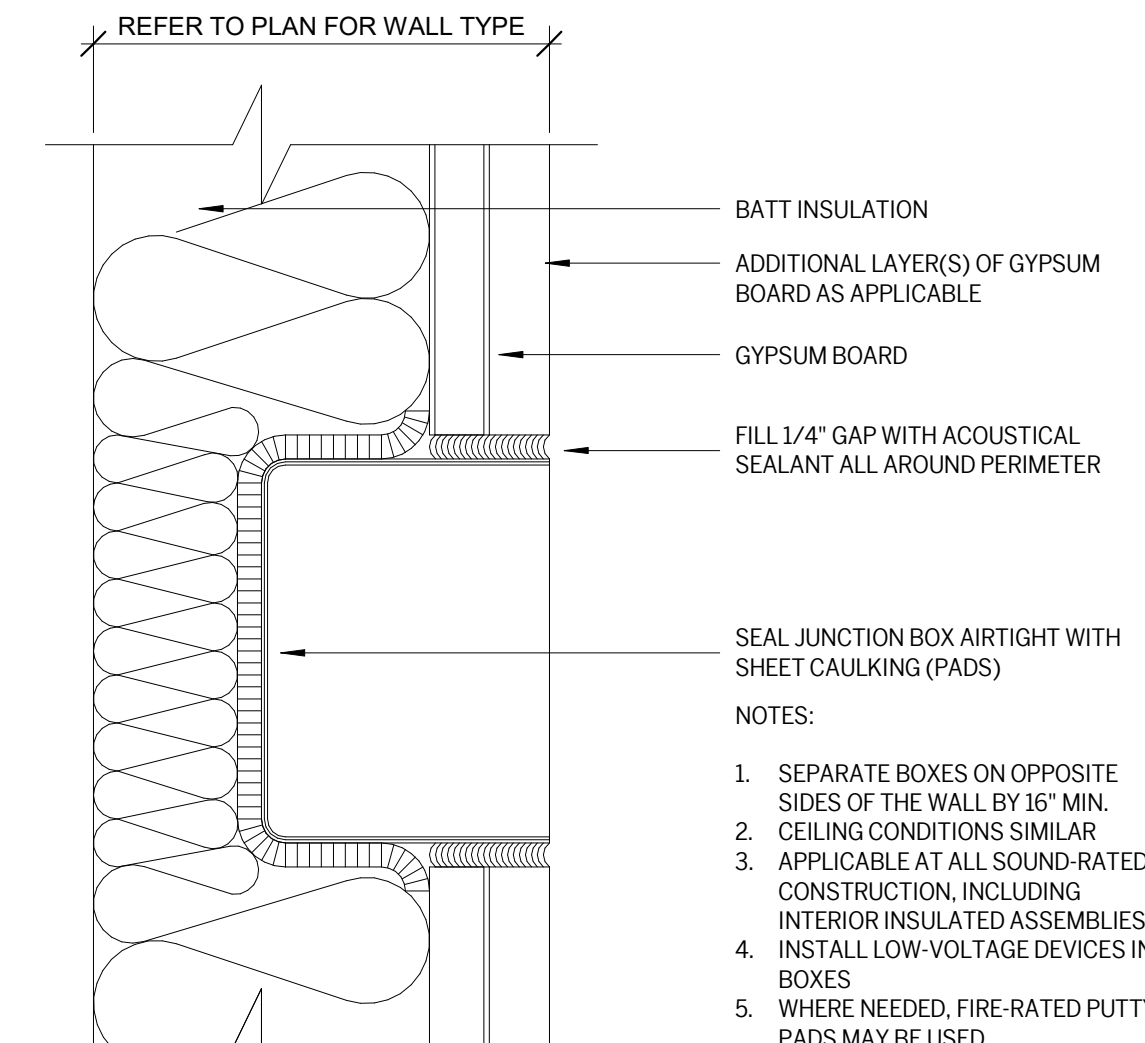
DEMOUNTABLE GLASS PARTITION - SOLID PANEL DETAIL - HEADER 10
 SCALE: 6" = 1'-0"



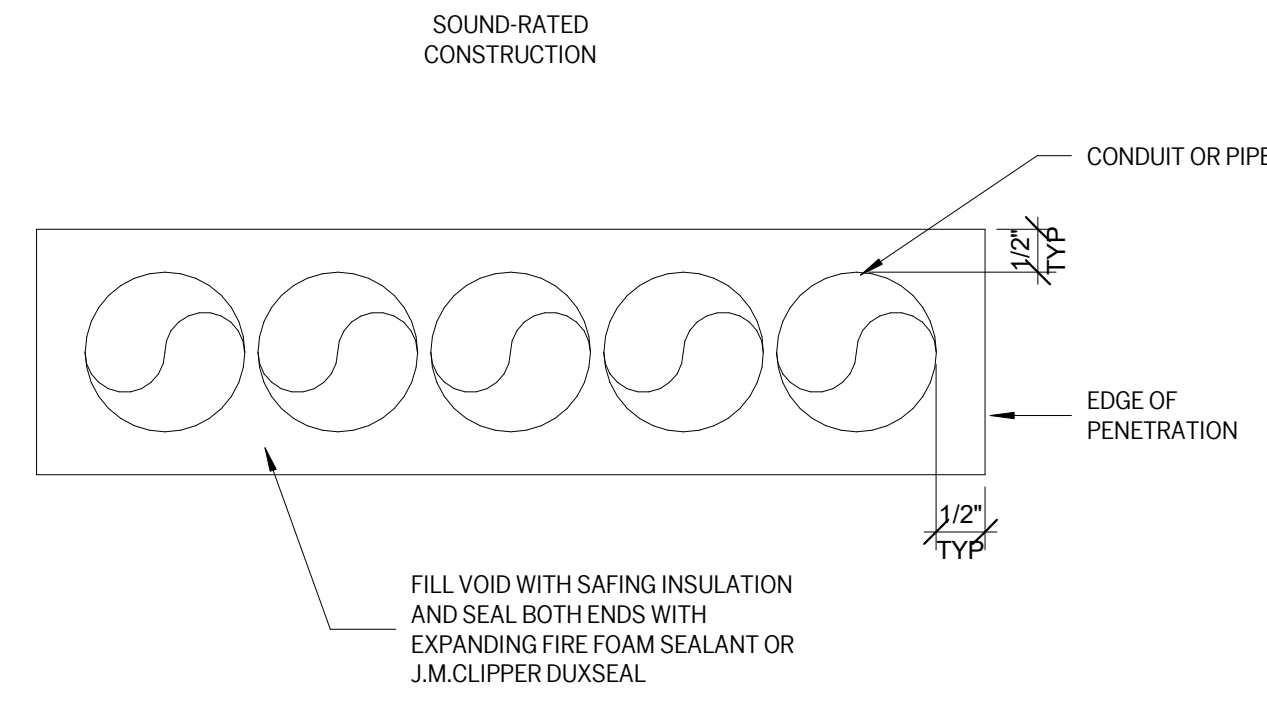
DEMOUNTABLE GLASS PARTITION - SOLID PANEL DETAIL - FOOTER 9
 SCALE: 6" = 1'-0"



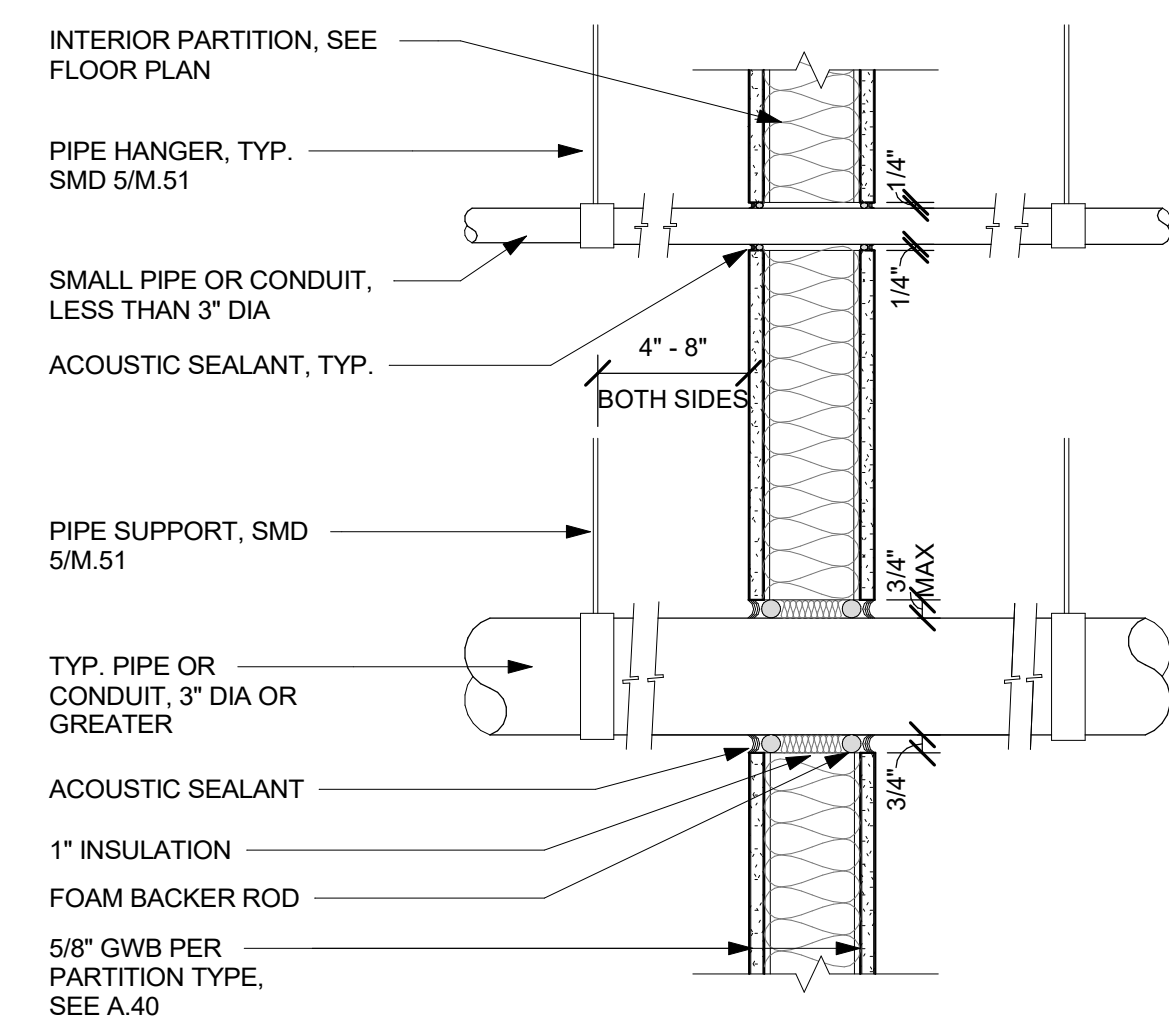
PARTITION DETAIL @ MULLION W/ SILL 8
 SCALE: 3" = 1'-0"



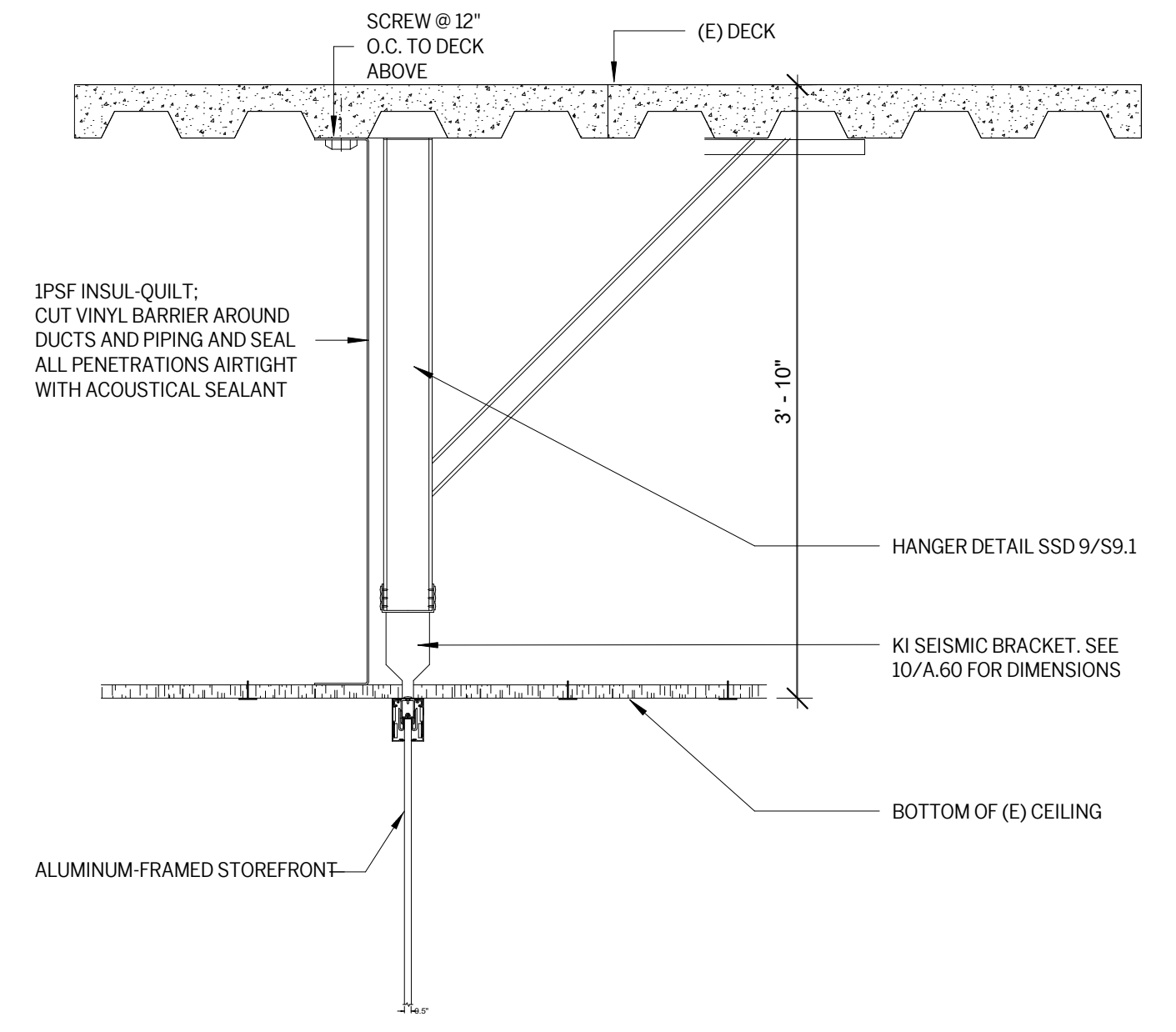
JUNCTION BOX IN SOUND-RATED CONSTRUCTION 7
 SCALE: 6" = 1'-0"



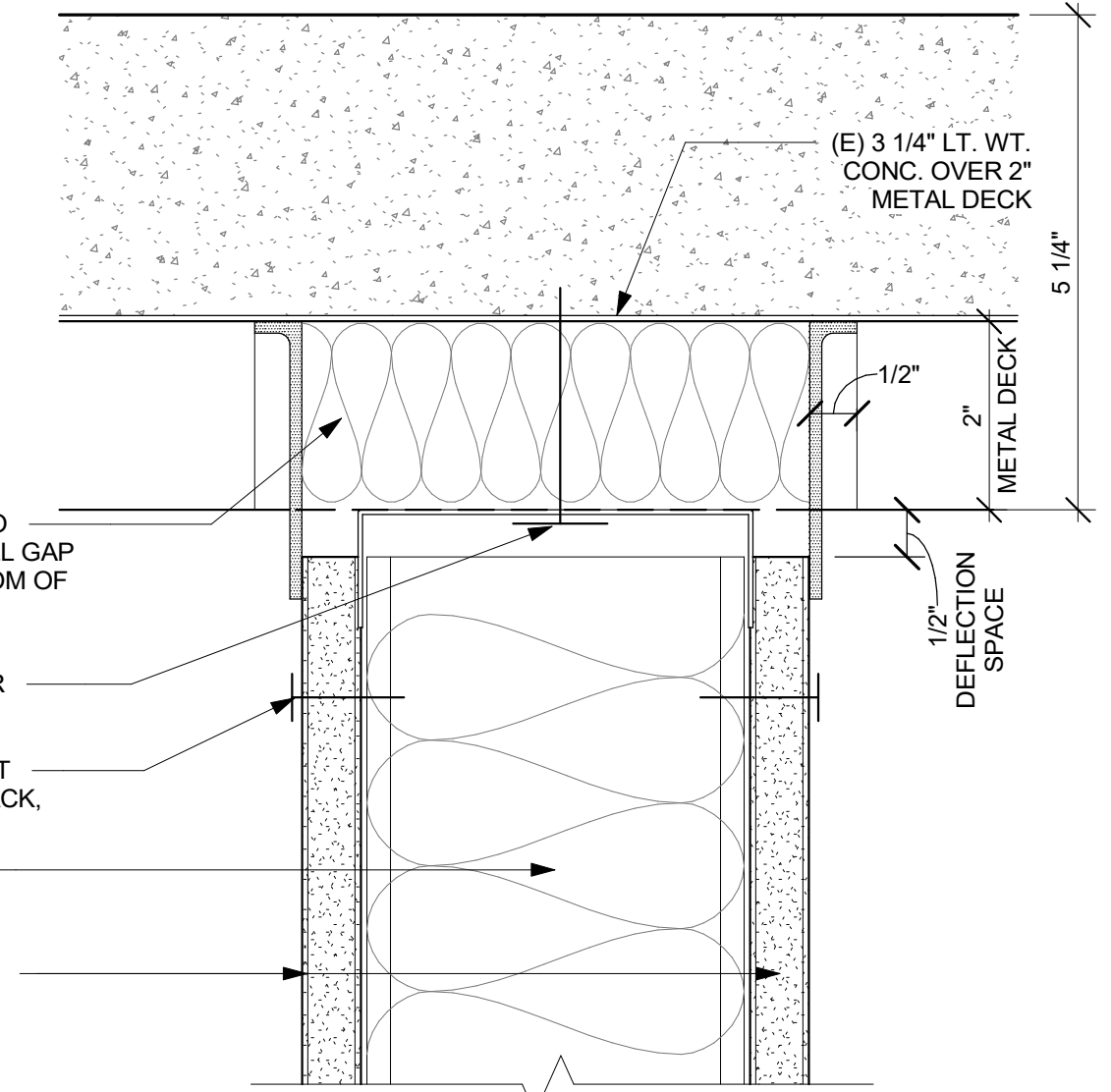
TYP. MULTIPLE PIPE PENETRATION THROUGH SOUND-RATED CONSTRUCTION 6
 SCALE: 6" = 1'-0"



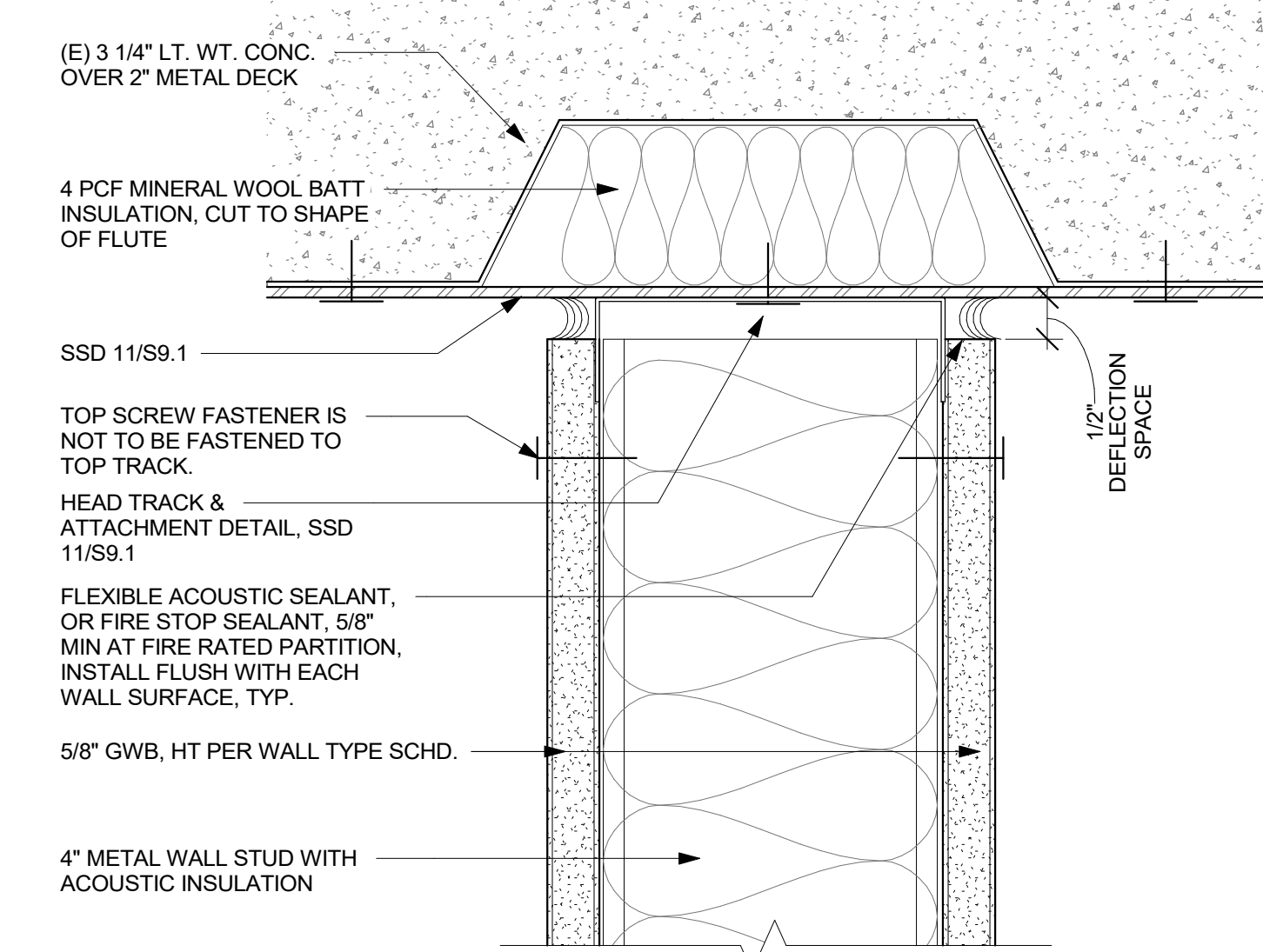
NON-RATED PIPE PENETRATION 5
 SCALE: 1 1/2" = 1'-0"



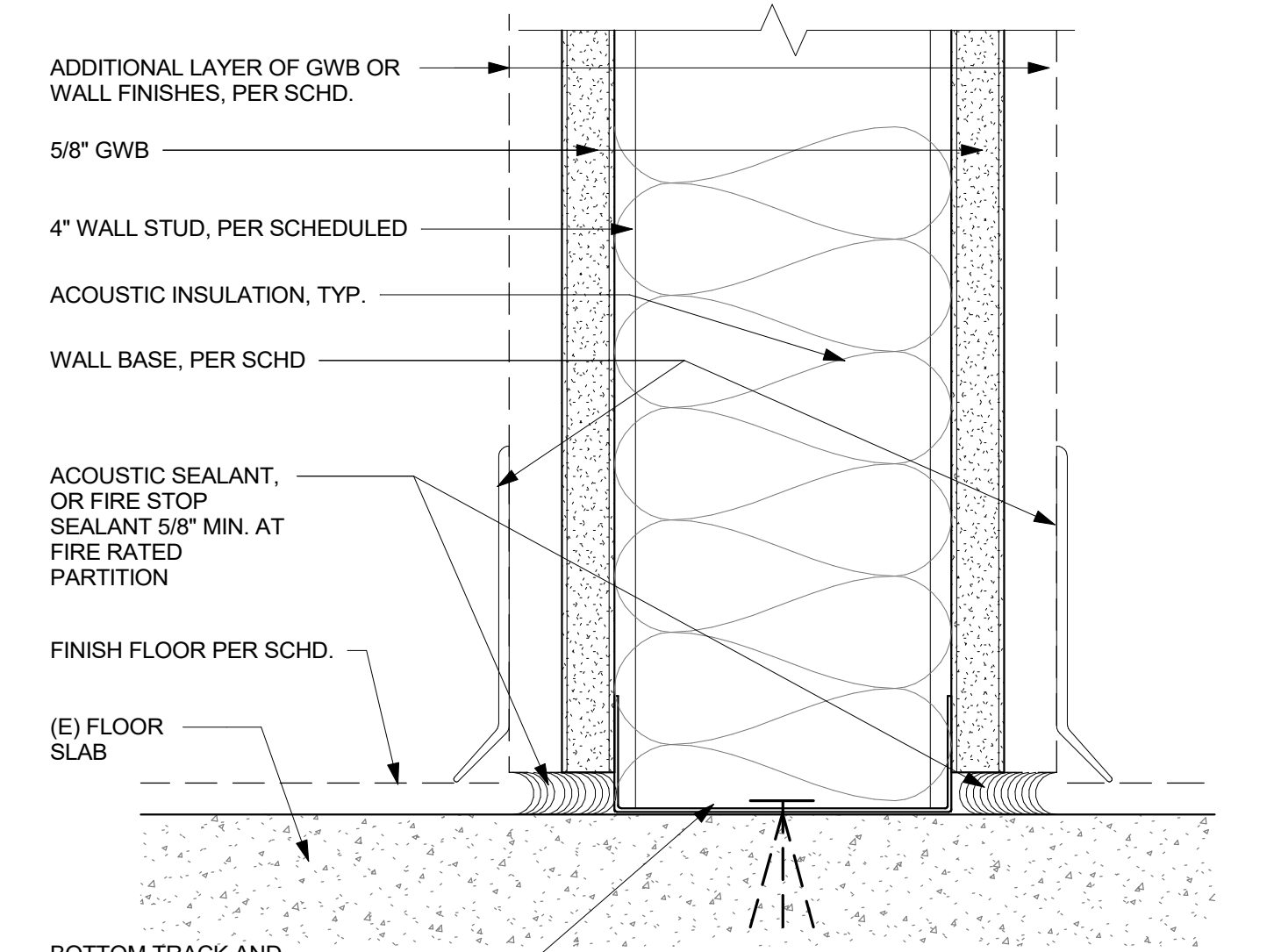
CEILING PLENUM ACOUSTIC BARRIER 4
 SCALE: 1" = 1'-0"



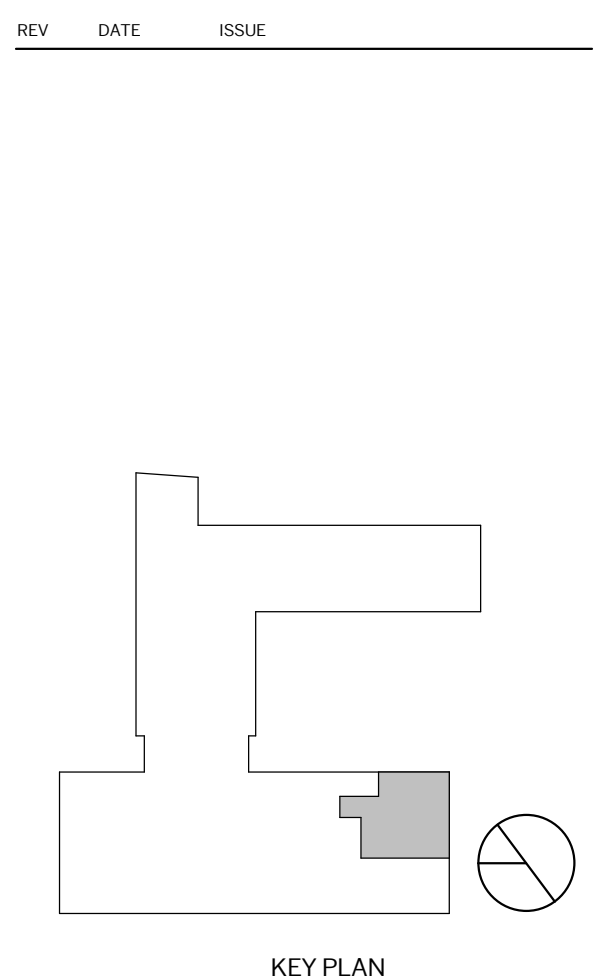
TYP. ACOUSTICAL PARTITION HEAD - PERP. TO DECK 3
 SCALE: 6" = 1'-0"



TYP. ACOUSTICAL PARTITION HEAD - PARALLEL TO DECK 2
 SCALE: 6" = 1'-0"



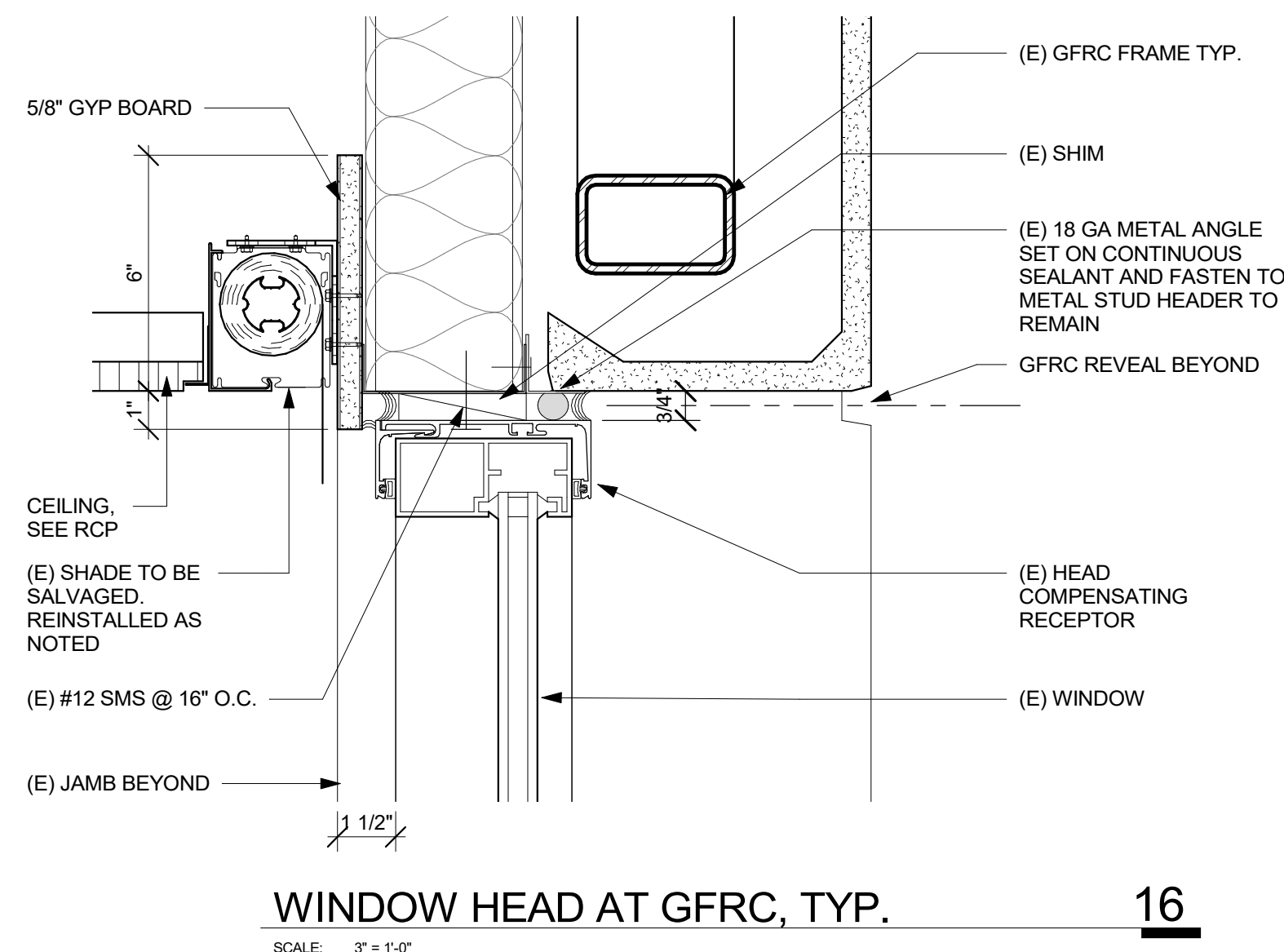
TYPICAL WALL BASE 1
 SCALE: 6" = 1'-0"



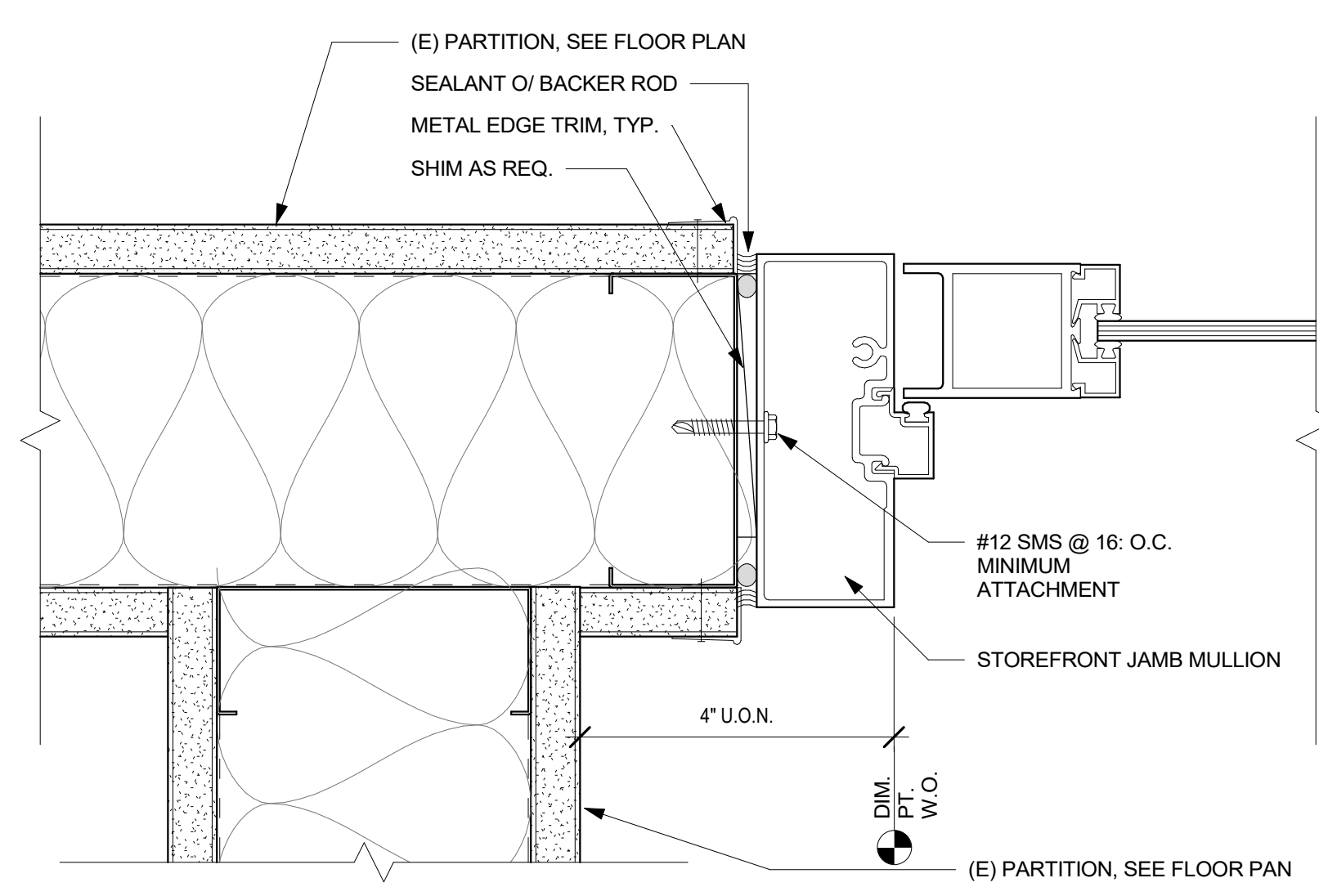
Administration Services Interior Improvements
 Student Services and Administration Building,
 Las Positas College
 3000 Campus Hill Drive, Livermore CA

PROJECT #: 20057.100
 DATE: August 11, 2020
 DRAWN BY: S. CALDWELL
 CHECKED BY: K. MCCLAIN
 SCALE: As indicated

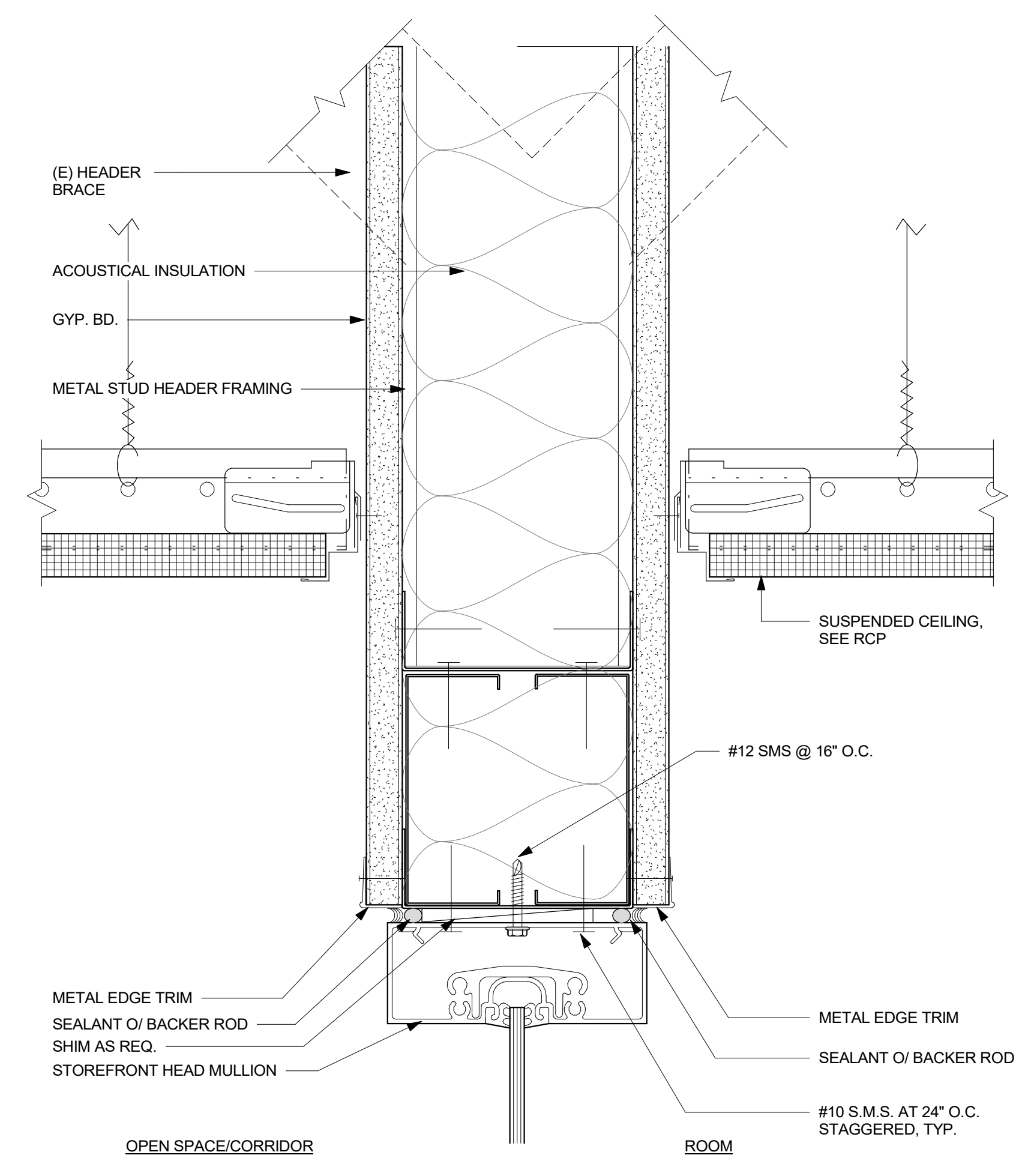
DETAILS - INTERIOR - WALLS



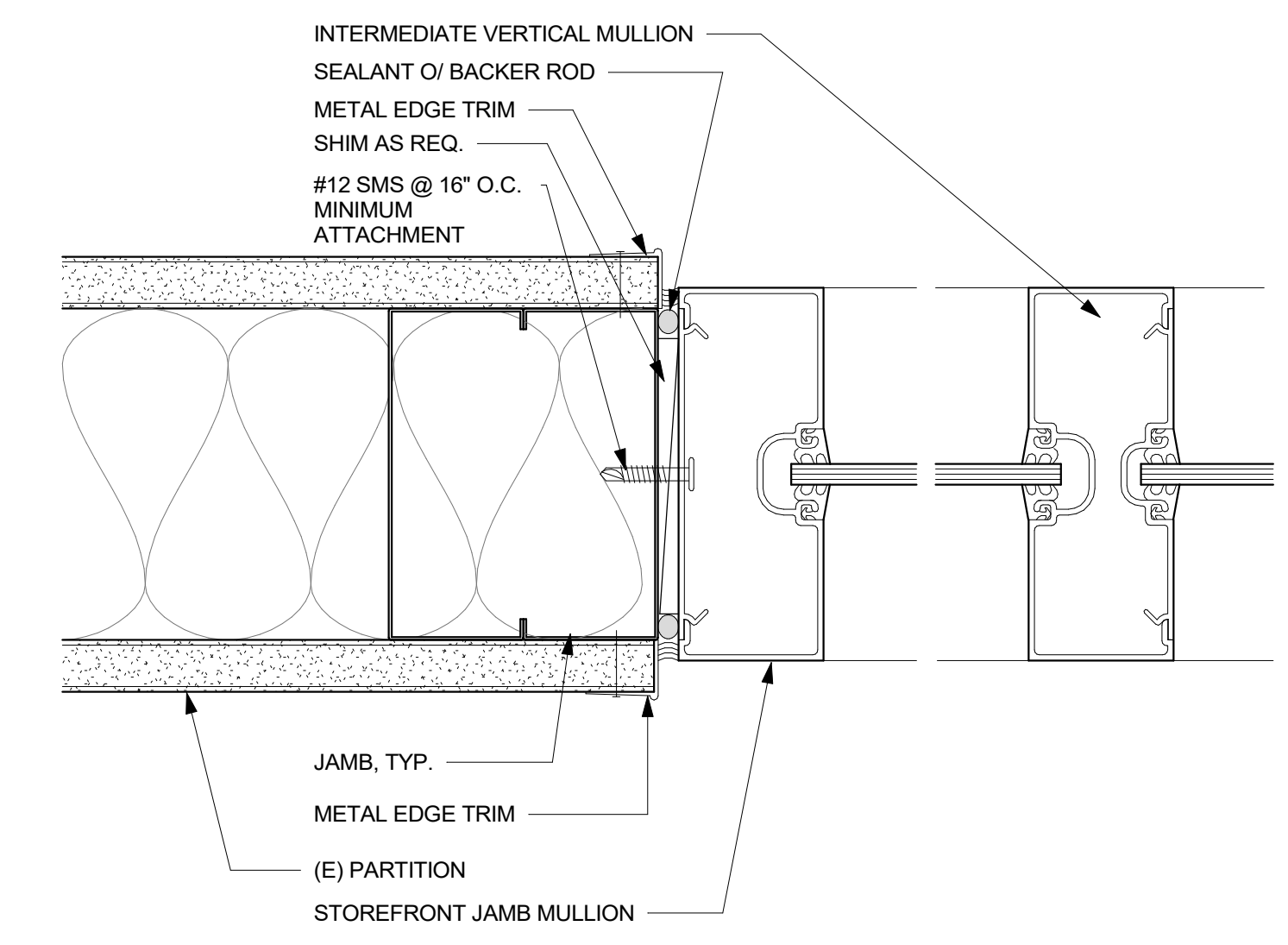
WINDOW HEAD AT GFRC, TYP. 16
 SCALE: 3/4" = 1'-0"



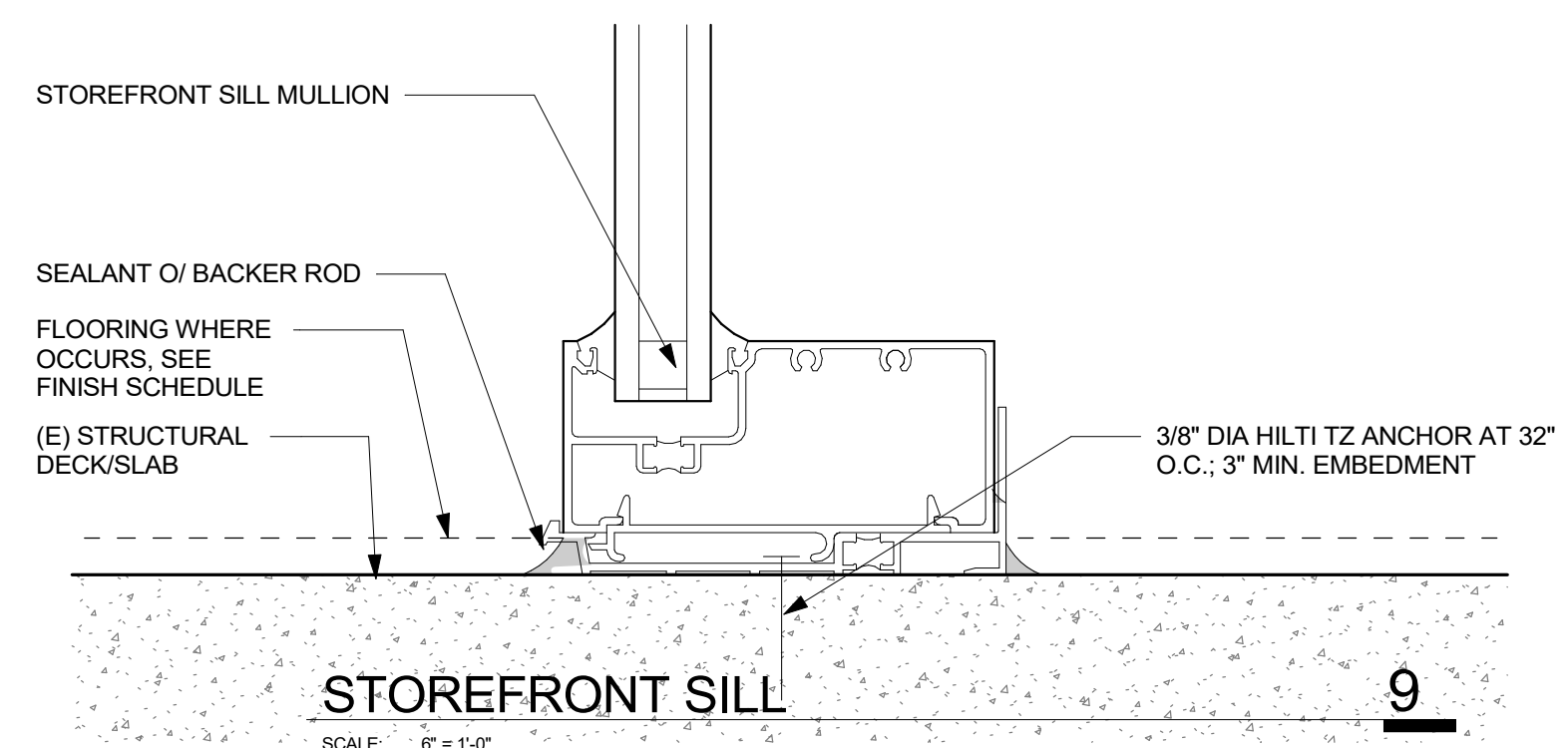
TYP. JAMB AT PERPENDICULAR PARTITION 15
 SCALE: 3/4" = 1'-0"



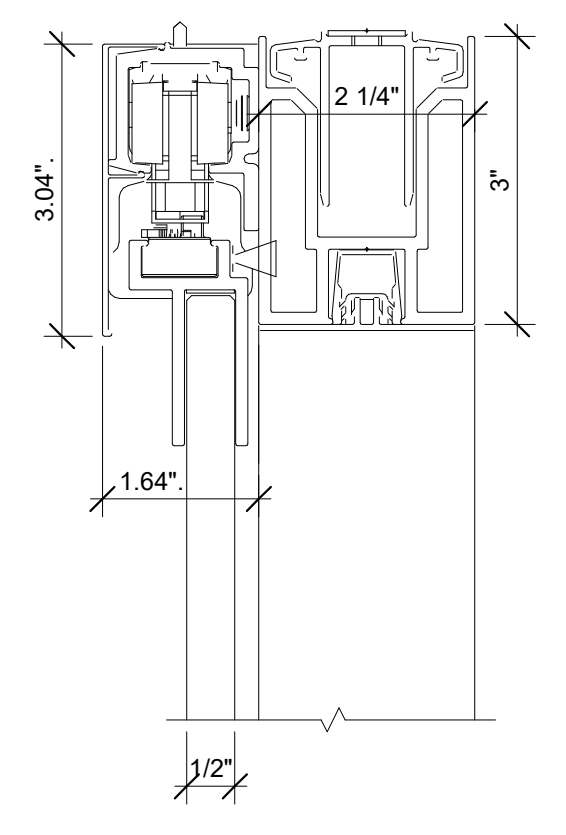
STOREFRONT HEAD 11
 SCALE: 3/4" = 1'-0"



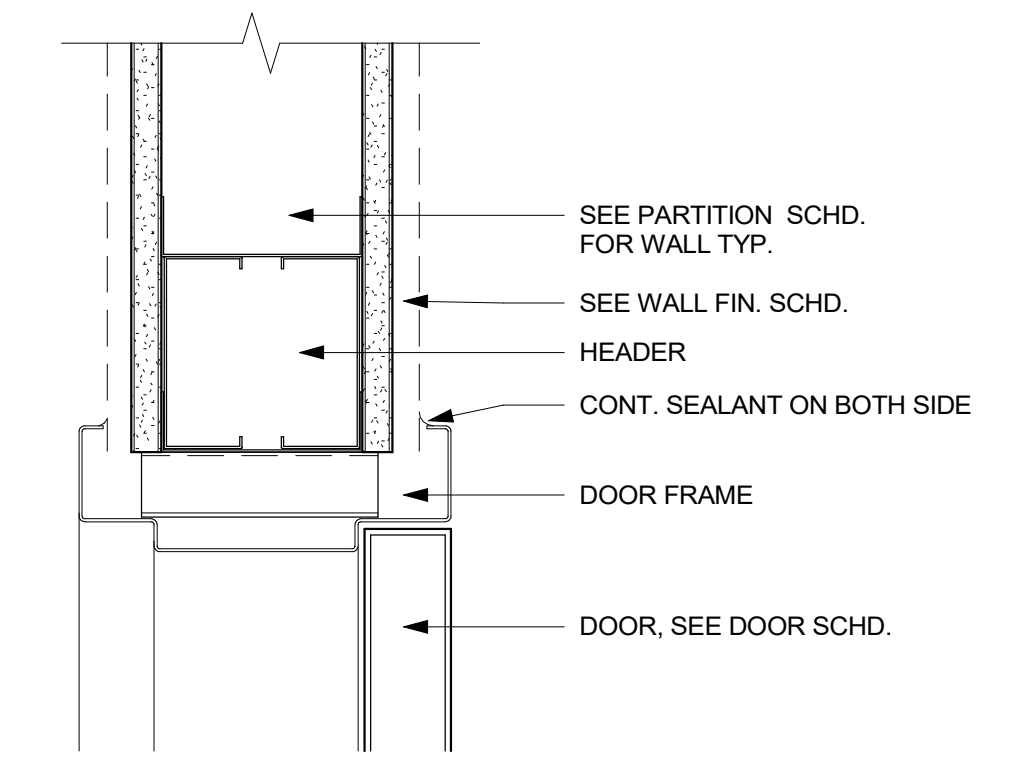
STOREFRONT JAMB/INTERMEDIATE MULLION 10
 SCALE: 3/4" = 1'-0"



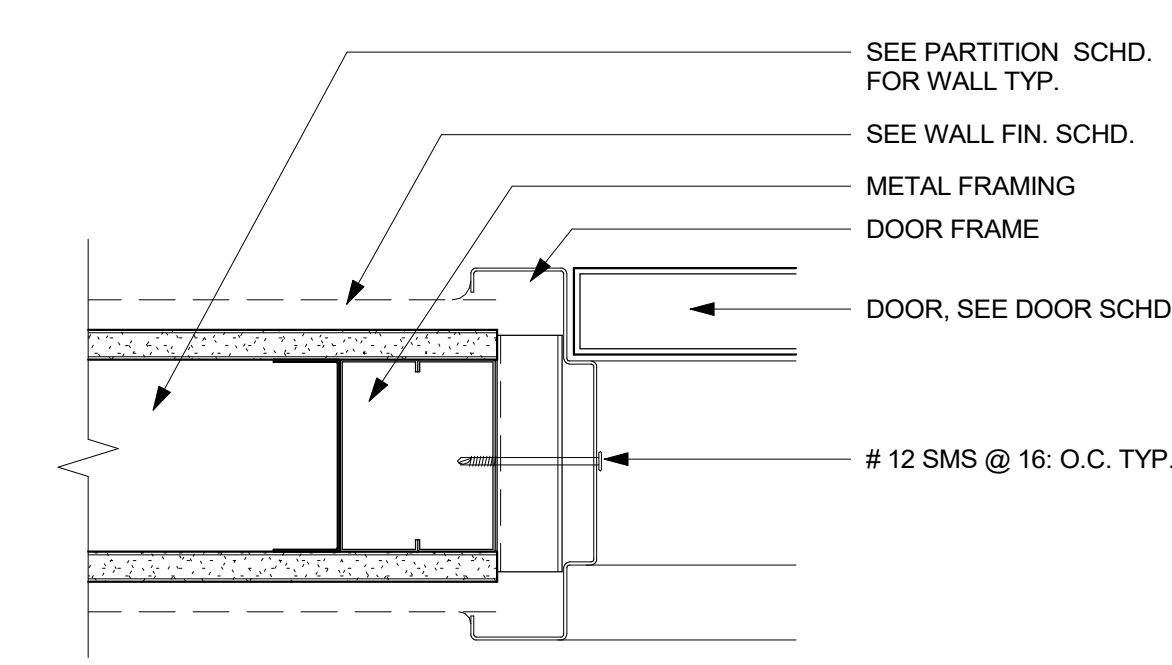
STOREFRONT SILL 9
 SCALE: 3/4" = 1'-0"



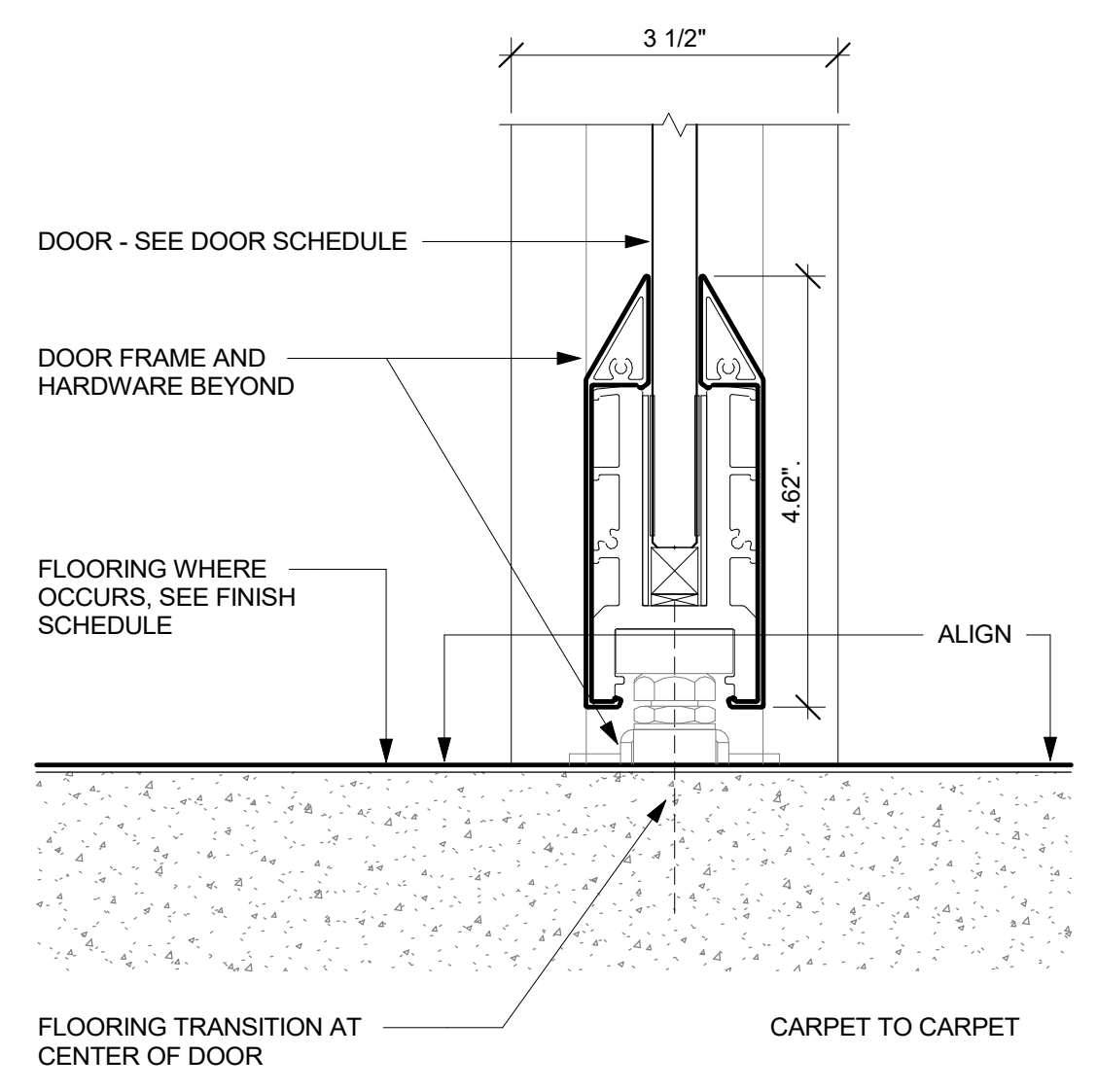
DEMOUNTABLE GLASS PARTITION DOOR DETAIL - HEADER 8
 SCALE: 3/4" = 1'-0"



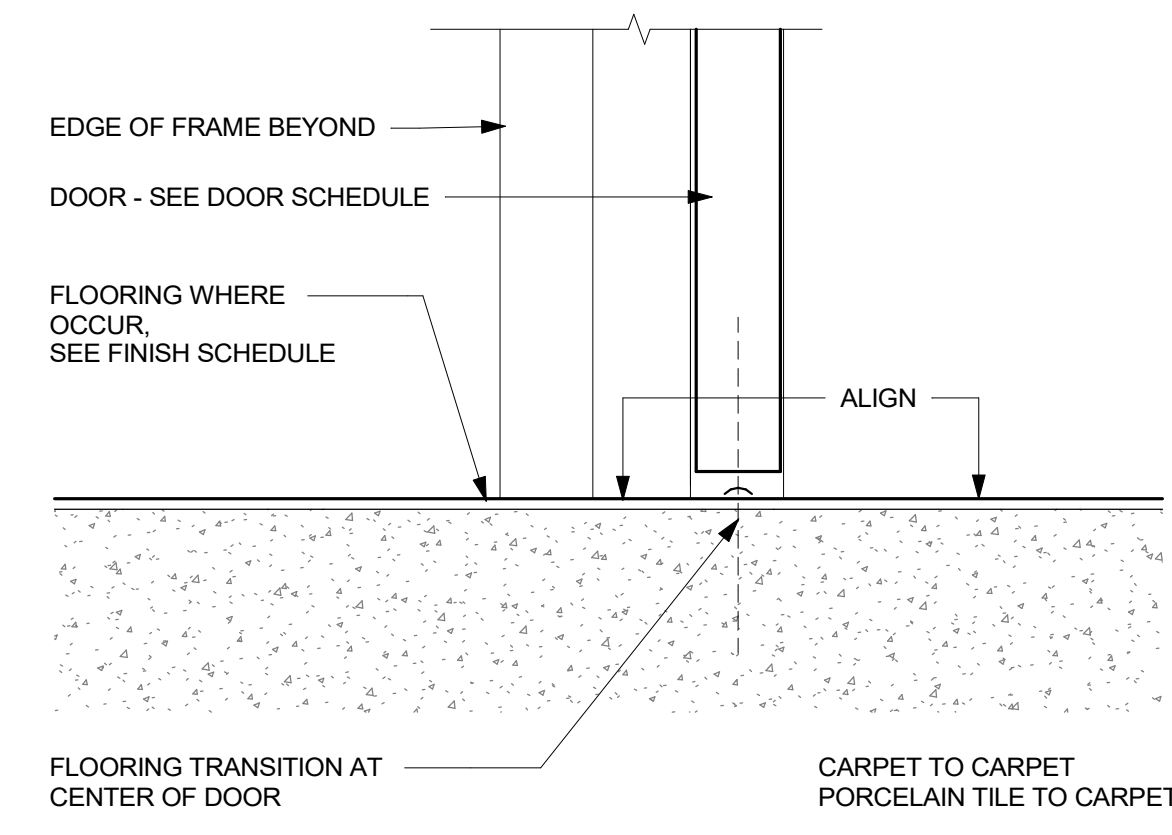
INT. DOOR HEAD 4
 SCALE: 3/4" = 1'-0"



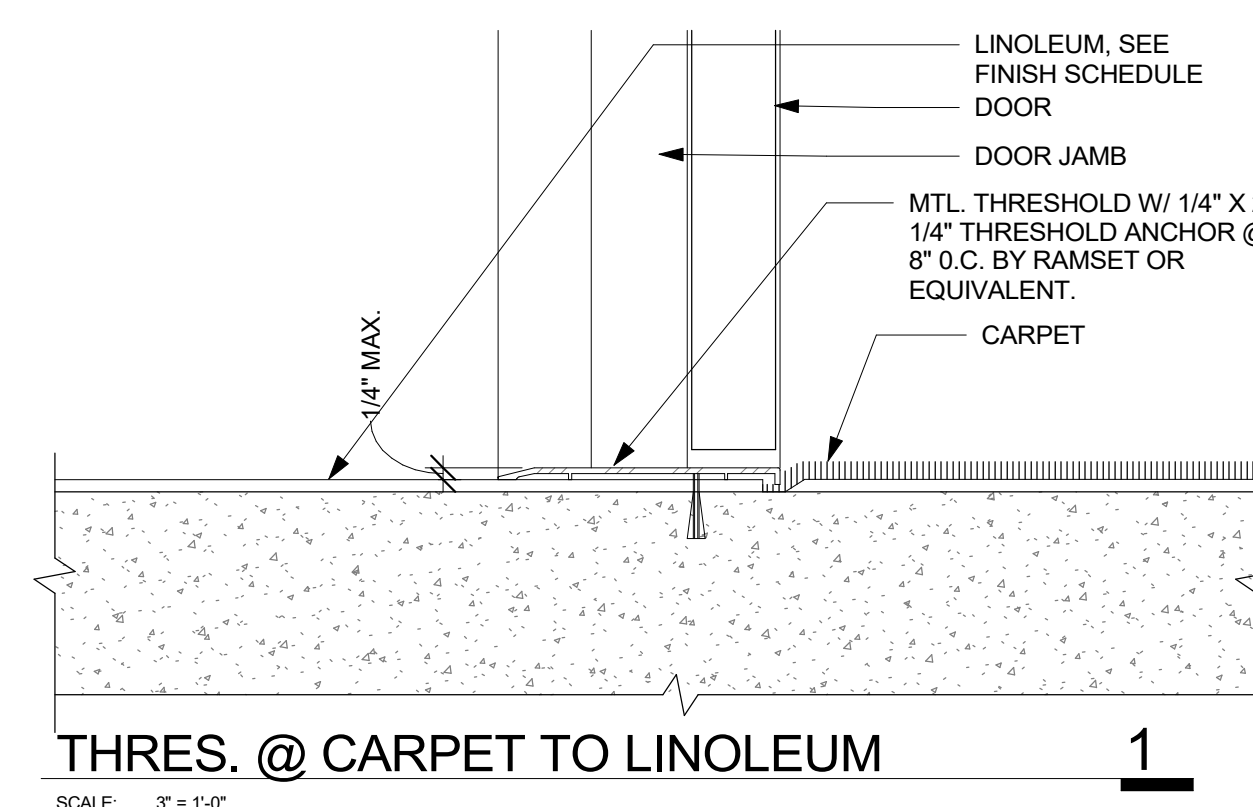
INT. DOOR JAMB 3
 SCALE: 3/4" = 1'-0"



DEMOUNTABLE GLASS PARTITION DOOR DETAIL - FOOTER 6
 SCALE: 3/4" = 1'-0"

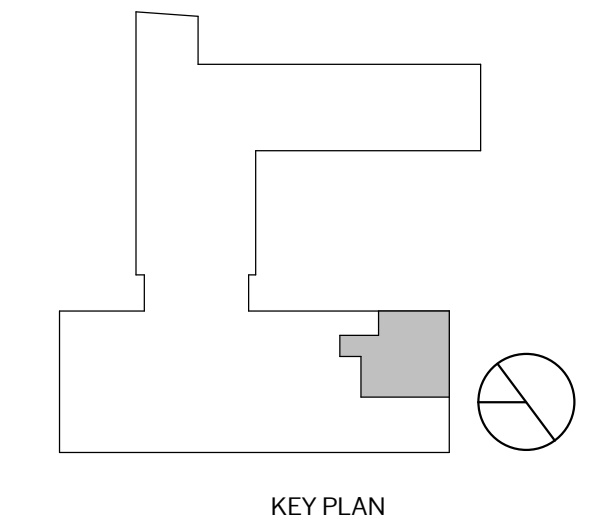


TYP. DOOR SILL W/O THRESHOLD 2
 SCALE: 3/4" = 1'-0"



THRES. @ CARPET TO LINOLEUM 1
 SCALE: 3/4" = 1'-0"

REV	DATE	ISSUE



Administration Services Interior Improvements
 Student Services and Administration Building,
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DETAILS - INTERIOR DOORS AND WINDOWS

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DSA IR 25-5 METAL SUSPENSION SYSTEM FOR LAY-IN PANEL CEILING

1. CEILING NOTES: THE FOLLOWING NOTES WILL BE ACCEPTABLE IN PLANS AND SPECIFICATIONS FOR CEILING SYSTEMS WHOSE TOTAL WEIGHT, INCLUDING AIR CONDITIONING HEATING GRILLS AND LIGHT FIXTURES, DOES NOT EXCEED TWO (2) SQ. HEAVIER SYSTEMS, AND THOSE SUPPORTING LATERAL LOADS FROM PARTITIONS, WILL REQUIRE SPECIAL DESIGN DETAILS. ALSO, SEE IR 25-3 FOR HEAVIER SYSTEMS.

1.1 #12 GAGE (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.

1.2 PROVIDE #12 GAGE HANGER WIRES AT THE ENDS OF ALL MAIN AND CROSS RUNNERS WITHIN EIGHT (8) INCHES OF THE SUPPORT OR WITHIN ONE-FOURTH (1/4) OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST. FOR THE PERIMETER OF THE CEILING AREA, END CONNECTIONS FOR RUNNERS WHICH ARE DESIGNED AND DETAILED TO RESIST THE APPLIED VERTICAL AND HORIZONTAL FORCES MAY BE USED IN LIEU OF THE #12 GAGE HANGER WIRES, SUBJECT TO DIVISION OF THE STATE ARCHITECT (DSA) REVIEW AND APPROVAL.

1.3 PROVIDE TRAPEZOID 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 8 OUT OF PLUMB ARE TO HAVE COUNTER-SLOPING WIRES.

1.4 CEILING GRID MEMBERS MAY BE ATTACHED TO NOT MORE THAN TWO (2) ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 1/2 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 1/2 INCH CLEAR OF WALL.

1.5 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 STRUT OR A #16 GAGE 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 12 INCHES OR LESS, THIS INTERLOCK IS NOT REQUIRED.

1.6 PROVIDE BRACING ASSEMBLIES CONSISTING OF A COMPRESSION STRUT AND FOUR (4) #12 GAGE SPAYED BRACING WIRES ORIENTED 90 DEGREES FROM EACH OTHER (SEE FIGURE 1) AT THE FOLLOWING SPACING:

1. FOR SCHOOL BUILDINGS, PLACE BRACING ASSEMBLIES AT A SPACING NOT MORE THAN 12 FT. BY 12 FT. ON CENTER.
2. FOR ESSENTIAL SERVICES BUILDINGS, PLACE BRACING ASSEMBLIES NOT MORE THAN 8 FT. BY 12 FT. ON CENTER.
3. PROVIDE BRACING ASSEMBLIES AT LOCATIONS NOT MORE THAN ONE HALF (1/2) THE SPACINGS GIVEN ABOVE. FROM EACH PERIMETER WALL AND AT THE EDGE OF VERTICAL CEILING OFFSETS, THE SLOPE OF THESE 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 SPECIAL DSA APPROVAL.
4. SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, AND FIRE RATED SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 96 SQUARE FEET OR LESS, SURROUNDED BY WALLS WHICH CONNECT DIRECTLY TO THE STRUCTURE ABOVE, DO NOT REQUIRE BRACING ASSEMBLIES WHEN ATTACHED TO TWO ADJACENT WALLS.

1.7 FASTEN HANGER WIRES WITH NOT LESS THAN THREE (3) TIGHT TURNS. FASTEN BRACING WIRES WITH FOUR (4) TIGHT TURNS. MAKE ALL TIGHT TURNS WITH A DISTANCE OF 1-1/2 INCHES. HANGER OR BRACING WIRE ANCHORS 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.

NOTE: WIRE TURNS MADE BY MACHINE WHERE BOTH STRANDS HAVE BEEN DEFORMED OR BENT IN WRAPPING CAN WAIVE THE 1-1/2 INCH REQUIREMENT, BUT THE NUMBER OF TURNS SHOULD BE MAINTAINED, AND BE AS TIGHT AS POSSIBLE.

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

1.9 WHEN DRILLED-IN CONCRETE ANCHORS OR SHOT-IN ANCHORS 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. SHOT-IN ANCHORS IN CONCRETE ARE NOT PERMITTED FOR BRACING WIRES. IF ANY SHOT-IN OR DRILLED-IN ANCHOR FAILS, SEE CBC, SECTION 1929A.3.5. NOTE: DRILLED-IN OR SHOT-IN ANCHORS REQUIRE SPECIAL DSA APPROVAL PRIOR TO USE IN PRESTRESSED CONCRETE.

1.10 ATTACH ALL LIGHT FIXTURES AND CEILING MOUNTED AIR TERMINALS, TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURES. SCREWS OR APPROVED FASTENERS ARE REQUIRED.

1.11 FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS, WEIGHING LESS THAN 56 LBS., MAY BE SUPPORTED DIRECTLY ON THE RUNNERS OF A HEAVY DUTY GRID SYSTEM BUT, IN ADDITION, THEY MUST HAVE A MINIMUM OF TWO (2) #12 GAGE SLACK SAFETY WIRES ATTACHED TO THE FIXTURE AT DIAGONAL CORNERS AND ANCHORED TO THE STRUCTURE ABOVE. ALL 4 FT. X 4 FT. LIGHT FIXTURES MUST HAVE SLACK SAFETY WIRES AT EACH CORNER. ALL FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS WEIGHING 56 LBS. OR MORE MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES, EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE REGARDLESS OF THE TYPE OF CEILING GRID SYSTEM USED.

THE FOUR (4) TAUT #12 GAGE WIRES, INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE, MUST BE CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE UNIT.

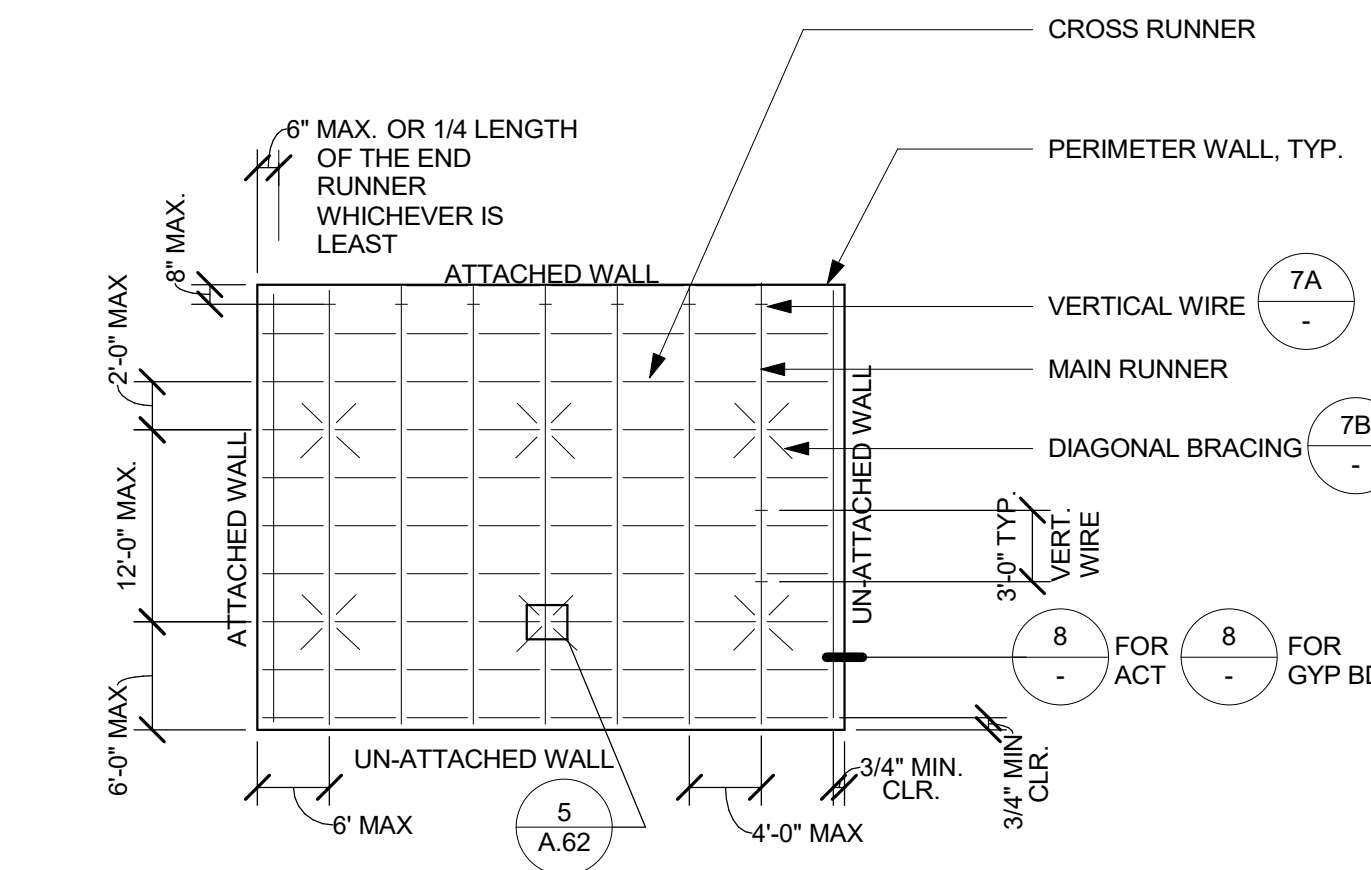
1.12 ALL FIXTURES AND AIR TERMINALS SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS MUST BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN FOUR (4) TAUT #12 GAGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL, AND TO THE STRUCTURE ABOVE.

1.13 SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A #12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FT. OR LONGER.

1.14 SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING FOUR (4) TIMES THE WEIGHT OF THE FIXTURE. A BRACING ASSEMBLY, PER DETAIL 1-1-1, 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 FORCES.

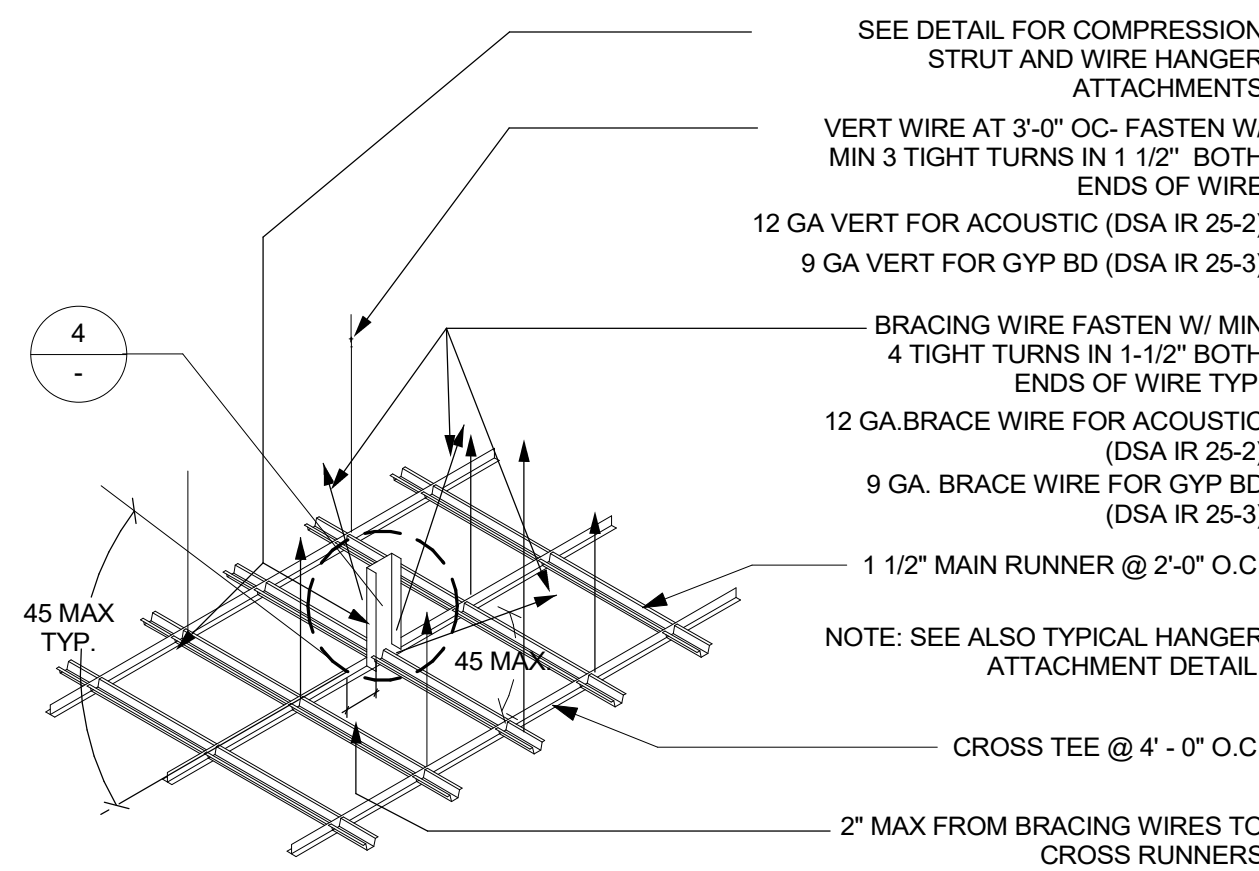
1.15 REQUIRED NOTES ON CONSTRUCTION DOCUMENTS:

CLASSIFICATION OF CEILING GRID IS HEAVY DUTY.
MANUFACTURER'S CATALOG NUMBER: USG DGLW-26.
MANUFACTURER'S CATALOG NUMBER: USG DGLW-424.
MANUFACTURER'S CATALOG NUMBER OF DETAIL FOR RUNNER SPLICE: USG DGSC-180



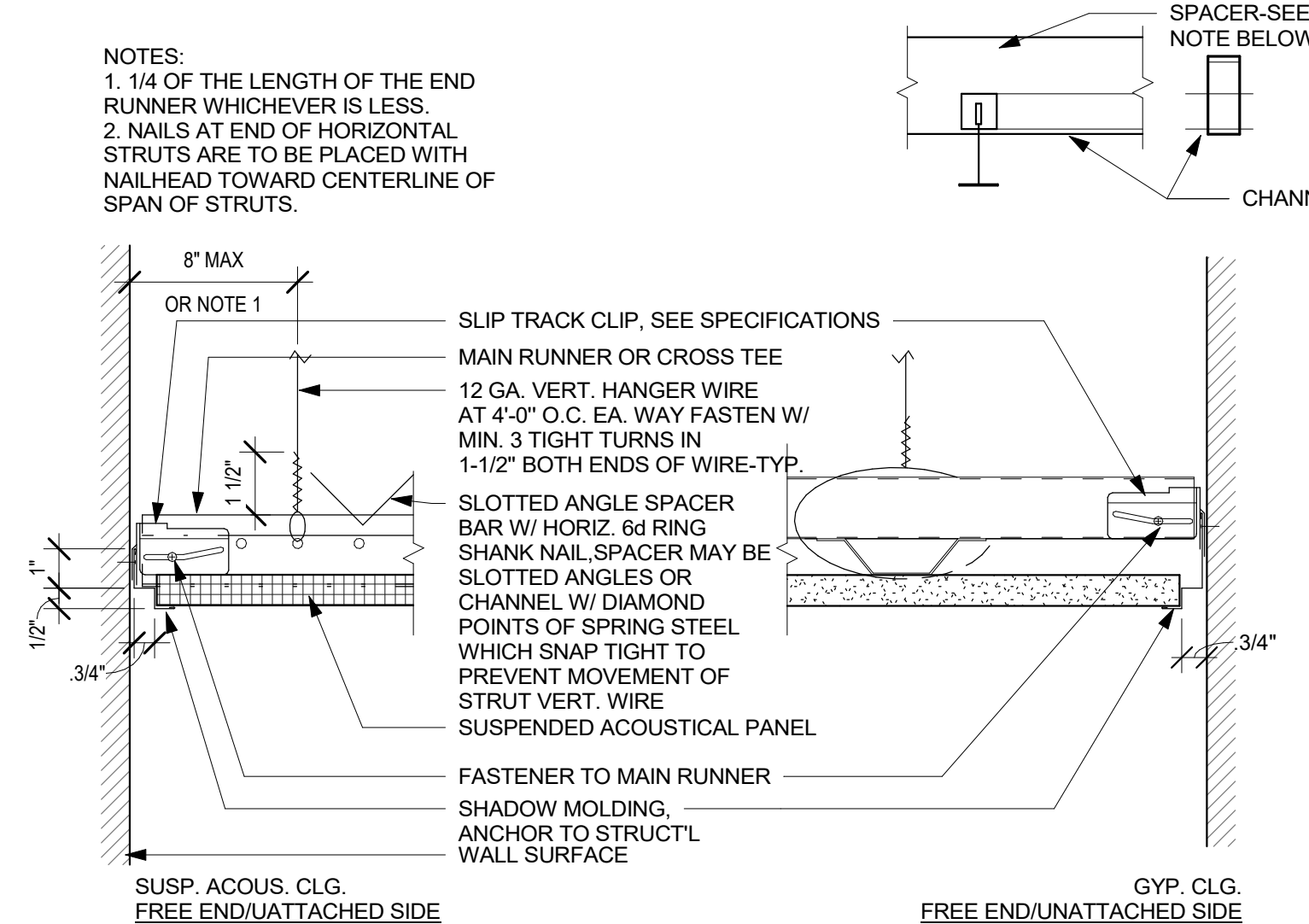
SUSP CLG DIAGRAMATIC BRACING 6

SCALE: 3/4" = 1'-0"



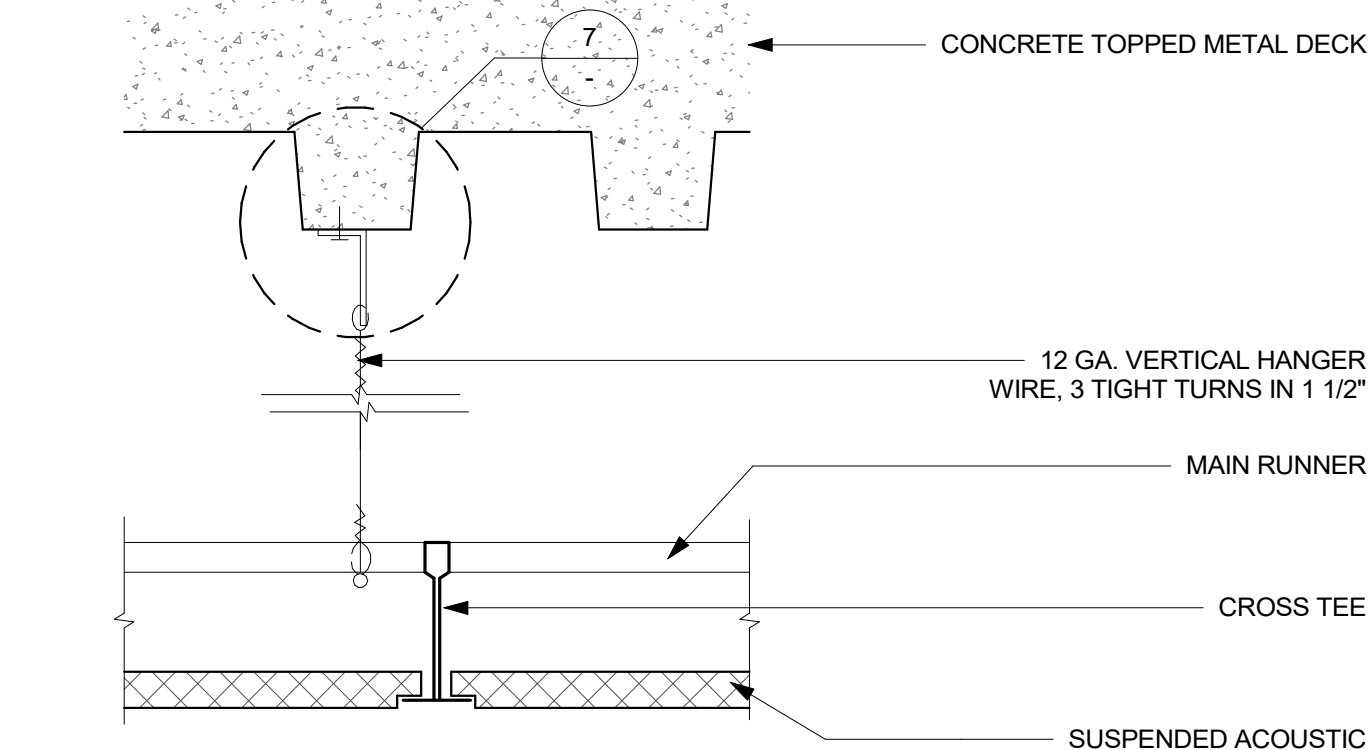
SUSP CLG DIAGONAL BRACING 5

SCALE: 3/4" = 1'-0"



TYP. SUSP. ACOUS. CLG. WALL ATTACHMENT 8

SCALE: 3/4" = 1'-0"

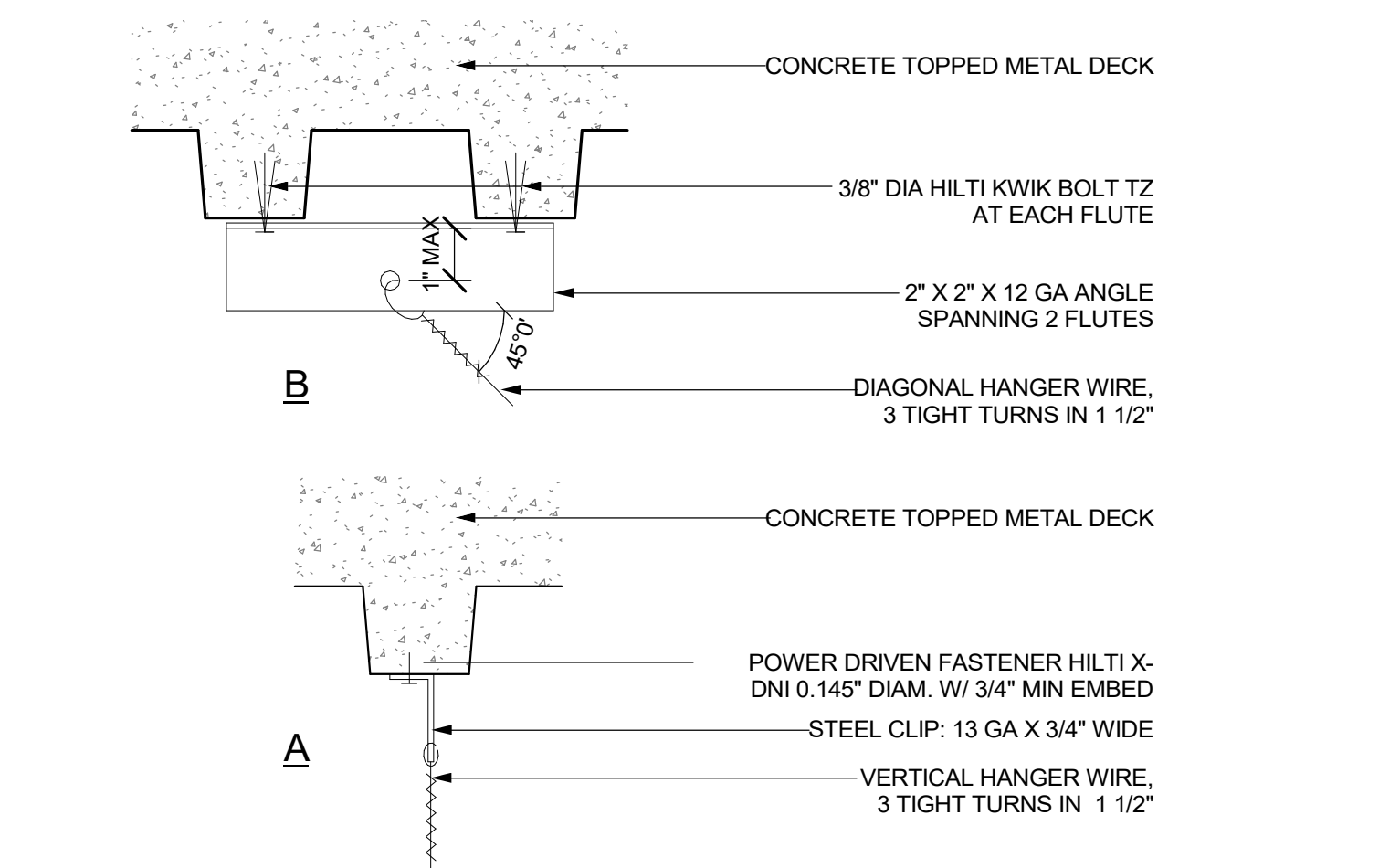


SUSP CLG CONNECTION 4

SCALE: 3/4" = 1'-0"

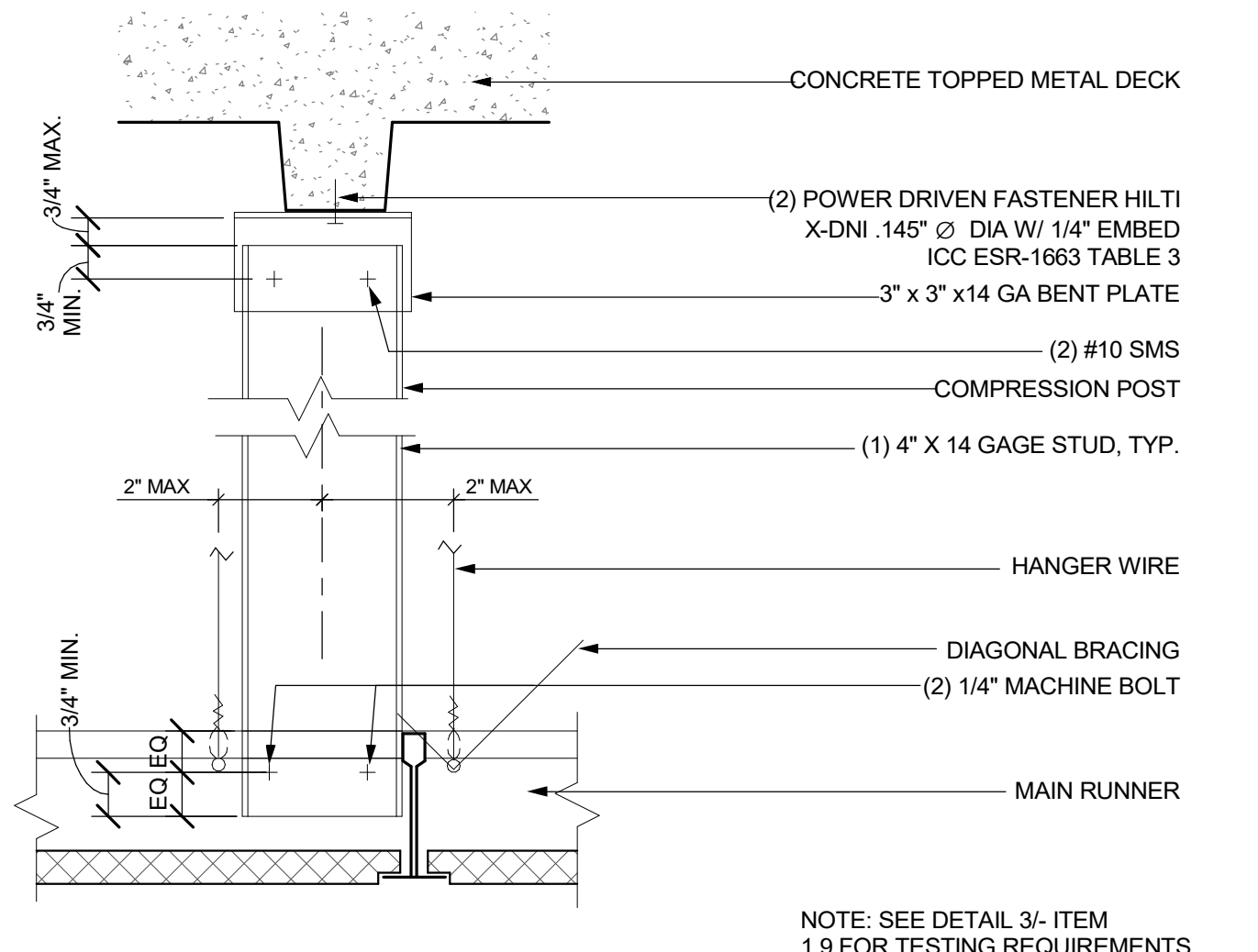
SUSPENDED ACOUSTICAL CEILING NOTES 2

SCALE: 1/2" = 1'-0"



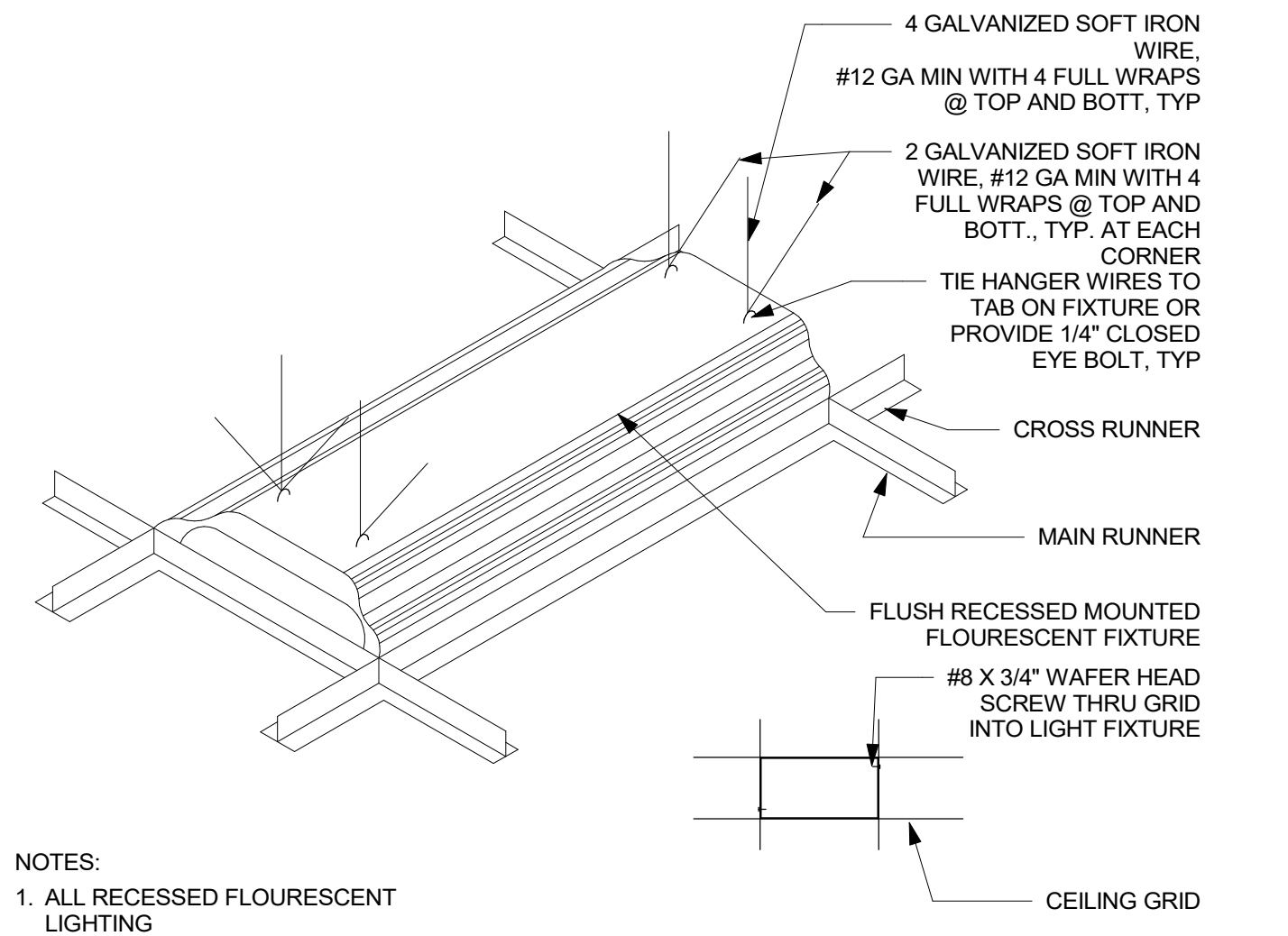
WIRE CONNECTION AT CONC. DECK 7

SCALE: 3/4" = 1'-0"



COMPRESSION STRUT 3

SCALE: 3/4" = 1'-0"



SUSP LIGHT FIXTURE 1

SCALE: 3/4" = 1'-0"

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REV	DATE	ISSUE

Administration Services Interior Improvements
Student Services and Administration Building, Las Positas College
3000 Campus Hill Drive, Livermore CA

PROJECT #: 20057100
DATE: August 11, 2020
DRAWN BY: S. CALDWELL
CHECKED BY: K. MCCLAIN
SCALE: As indicated

DETAILS - INTERIOR - CEILING

STRUCTURAL GENERAL NOTES

- GENERAL**
- THESE DRAWINGS ARE COPY RIGHTED INSTRUMENTS OF SERVICE OF HOHBACH-LEWIN, INC. FOR USE ONLY ON THIS PROJECT.
- CONTRACTOR RESPONSIBILITY - CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES AND SAFETY PRECAUTIONS, INCLUDING BUT NOT LIMITED TO SHORING AND TEMPORARY BRACING.
- DIMENSIONS - USE WRITTEN DIMENSIONS ONLY. VERIFY ALL DIMENSIONS AT JOB SITE BEFORE COMMENCING WORK AND REPORT ANY DISCREPANCIES. WHERE NO DIMENSIONS ARE PROVIDED, OBTAIN CLARIFICATION PRIOR TO PROCEEDING WITH WORK. DO NOT SCALE DRAWINGS.
- COORDINATION - OPENINGS THROUGH WALLS AND FLOORS FOR MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED BY CONTRACTOR AND CONSTRUCTED PER TYPICAL DETAILS SHOWN IN THESE DOCUMENTS. NO MECHANICAL OR ELECTRICAL SYSTEM COMPONENTS SHALL BE EMBEDDED IN SLABS OR WALLS UNLESS SPECIFICALLY DETAILED IN THESE DOCUMENTS.
- OMISSIONS AND CONFLICTS - OMISSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE CONSTRUCTION DOCUMENTS SHOULD BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM. IF CERTAIN FEATURES ARE NOT FULLY DELINEATED IN THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE OF THE SAME CHARACTER AS FOR SIMILAR CONDITIONS THAT ARE DELINEATED.
- STRUCTURAL DRAWINGS ARE INTENDED TO BE USED WITH ARCHITECTURAL AND MECHANICAL DRAWINGS. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING SUCH REQUIREMENTS INTO THEIR SHOP DRAWINGS AND WORK.
- THERE SHALL BE NO CHANGE IN SIZE OR DIMENSION OF A STRUCTURAL MEMBER, NOR SHALL ANY OPENINGS BE MADE IN ANY STRUCTURAL MEMBER, WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE STRUCTURE AT THE TIME THE LOADS ARE IMPOSED.
- THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION FROM THE CONTRACT DOCUMENTS.
- SEE DRAWINGS OTHER THAN STRUCTURAL FOR TYPES OF FLOOR FINISH AND THEIR LOCATION, DEPRESSIONS IN FLOOR SLABS, OPENINGS IN WALLS AND FLOORS REQUIRED BY ARCHITECTURAL AND MECHANICAL FEATURES, AND ROADWAY PAVING, WALKS, RAMPS, STAIRS, CURBS, ETC.
- TYPICAL DETAILS - DETAILS NOTED AS TYPICAL ARE APPLICABLE WHERE SPECIFIED ON THE STRUCTURAL DRAWINGS AND WHEREVER THE CONDITION OCCURS THROUGHOUT THE PROJECT, INCLUDING LOCATIONS WHERE THE DETAIL IS NOT EXPLICITLY SPECIFIED OR REFERENCED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY LOCATIONS WHERE TYPICAL DETAILS ARE APPLICABLE PRIOR TO CONSTRUCTION.

- EXISTING CONSTRUCTION/ CONDITIONS:**
- SHORING: THE CONTRACTOR SHALL PROVIDE SHORING WHEREVER NECESSARY TO ALLOW INSTALLATION OF THE WORK. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION AND MAINTENANCE OF ALL SHORING AND TEMPORARY WORK REQUIRED THROUGHOUT THE PROGRESS OF THE WORK.
- EXISTING CONSTRUCTION: EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS WAS OBTAINED FROM LIMITED VISUAL OBSERVATIONS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD OF ALL EXCEPTIONS AND RECEIVE DIRECTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
- DEMOLITION: THE REMOVAL, CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND WITH APPROPRIATE TOOLS IN ORDER TO NOT JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED DEMOLITION.

- DESIGN BASIS**
- APPLICABLE CODE: CALIFORNIA BUILDING CODE (CBC), 2019 EDITION.
- LATERAL LOADS:
 - DESIGN WIND CRITERIA: PER ASCE 7-16
BASIC DESIGN WIND SPEED: 95 mph
ALLOWABLE STRESS DESIGN WIND SPEED: 60 mph
WIND EXPOSURE: C
 - DESIGN SEISMIC CRITERIA:
SITE CLASS: D - DEFAULT
S_{DS} = 1.5g
S₁ = 0.6g
IMPORTANCE FACTOR, I = 1.25
SEISMIC DESIGN CATEGORY: D
RISK CATEGORY: II
COMPONENT RESPONSE MODIFICATION COEFF., R = 2.5
COMPONENT AMPLIFICATION FACTOR, a_p = 1.0
DESIGN SEISMIC COEFF., F_a = 0.5x_s(STRENGTH)

- LIGHT GAUGE STEEL**
- COLD FORM STEEL USED FOR STUDS, TRACK, BLOCKING, GUSSETS, BRACE STRAPS, ETC. SHALL MEET THE REQUIREMENTS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) 85 EVALUATION REPORT NO. 304MP DATED FEBRUARY 2020. SEE DETAIL SHEETS FOR SIZES AND THICKNESS REQUIREMENTS.
- COLD FORM STEEL STUD FRAMING SHALL CONFORM TO THE FOLLOWING:
54 MIL AND HEAVIER-ASTM A653 55 (50 ksi MINIMUM YIELD)
43 MIL AND LIGHTER-ASTM A653 55 (33 ksi MINIMUM YIELD)
EXTERIOR MEMBERS - GALVANIZED 660 MIN.
- ALL STEEL STUDS, JOIST & TRACK SHALL HAVE A LEGIBLE LABEL, STAMP OR EMBOSSEMENT, AT A MAXIMUM OF 48" O.C., INDICATING THE MANUFACTURER'S NAME, LOGO OR INITIALS, EVALUATION SERVICE REPORT NUMBER, THE MATERIAL, BASE METAL THICKNESS (UNCOATED) IN 001 IN. AND THE YIELD STRENGTH IF DIFFERENT THAN 33 KSI.
- MILL CERTIFICATES FROM THE COIL PRODUCER SHALL BE MADE AVAILABLE IF REQUESTED. MILL CERTIFICATE TO INCLUDE AS A MINIMUM THE CHEMICAL COMPOSITION, YIELD STRENGTH, TENSILE STRENGTH, ELONGATION, AND COATING THICKNESS.
- ALL SECTIONS TO REMAIN UNPUNCHED EXCEPT WALL STUDS MAY BE PUNCHED IN ACCORDANCE WITH ICC HOLE SIZE AND SPACING LIMITATIONS.
- LATERAL BRIDGING OF COLD FORM STEEL STUDS IS REQUIRED WHEN SHEATHING, INSTALLED DOES NOT CONTINUE FULL HEIGHT ON BOTH SIDES. FOR BRIDGING INSTALLATION SEE TYPICAL DETAIL SHEET.
- COLD FORM STEEL STUDS SHALL HAVE FULL BEARINGS AGAINST INSIDE TRACK WEB PRIOR TO STUD AND TRACK ATTACHMENT. STUDS AND TRACKS SHALL BE ATTACHED BY WELDING OR (2) #8 SELF DRILLING SCREWS (ONE EA. FLANGE).
- PRE-MANUFACTURED HANGERS, CLIPS, ETC. SHALL MEET THE REQUIREMENTS OF "EMPSON" OR EQUIVALENT.
- VERTICAL SLAB/D BY THE STEEL NETWORK ICC ESR-2049.
- SELF-DRILLING FASTENERS HAVE BEEN DESIGNED IN ACCORDANCE WITH AISI SPECIFICATION PROVISIONS FOR SCREW CONNECTIONS. FASTENERS SHALL BE #8 SWS U10 IN. ALL SCREWS TO BE GALVANIZED OR CORROSION RESISTANT. SCREWS SHALL CONFORM TO S.A.E. J18.
- WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS IN A FABRICATION SHOP. ALL WELDING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST AISC D13 CODE.
43 MIL AND LIGHTER SHEET TO SHEET - E60XX
54 MIL AND HEAVIER SHEET TO SHEET - E70XX
- BUTT WELDS ON SPLICES SHALL BE USED AT ALL JOINTS IN TRACK. SPLICES IN STUDS OR BRACES SHALL NOT BE PERMITTED. WHERE STUDS ARE BURNED THROUGH BY WELDING PROVIDE SUITABLE PATCH PLATE OF SAME THICKNESS.
- SEE ADDITIONAL NOTES ON DET. 1/5.41

- EXPANSION ANCHORS (HLTI)**
- EXPANSION BOLTS SHALL BE HLTI KLIK-BOLT TZ-CARBON STEEL ANCHOR (ESR-1917) OR EQUAL PRODUCT. ALTERNATE PRODUCTS MUST BE SUBMITTED TO E.O.R. FOR SUBSTITUTION PRIOR TO INSTALLATION PER SPECIFICATIONS.
 - PROVIDE HLTI KLIK-BOLT 3 ANCHOR (ICC ESR-1985) AT MASONRY APPLICATION
- INSTALLATION: INSTALL THE EXPANSION ANCHORS IN ACCORDANCE WITH THE REQUIREMENTS GIVEN IN MANUFACTURER'S RECOMMENDATIONS FOR THE SPECIFIC ANCHOR.
- SPECIAL INSPECTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 1104 OF THE CBC. (1104A OF THE CBC FOR DSA PROJECTS)
- WHEN EXPANSION ANCHORS ARE USED FOR SILL PLATE BOLTING AWAY FROM THE EDGE, 10% OF THE ANCHORS SHALL BE TENSION TESTED. FOR ALL OTHER STRUCTURAL APPLICATIONS, ALL SUCH EXPANSION ANCHOR SHALL BE TENSION TESTED. WHEN EXPANSION ANCHORS ARE USED FOR NON-STRUCTURAL APPLICATIONS, 50% OF ANCHORS SHALL BE TENSION TESTED. IF ANY ANCHOR FAILS TESTING, TEST ALL ANCHORS OF THE SAME TYPE NOT PREVIOUSLY TESTED UNTIL 20 CONSECUTIVE ANCHORS PASS. (PER IR-19.1 FOR DSA PROJECTS ONLY)
- CONCRETE AT TIME OF INSTALLATION SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND SHALL HAVE A MINIMUM AGE OF 21 DAYS

VERIFY MINIMUM EXISTING CONCRETE STRENGTH IN FIELD. MIN. F _c = 2500 PSI (NORMAL WEIGHT CONCRETE) *					
DIA.	MIN. EMBED	HOLE DEPTH	MIN. EDGE DISTANCE	MIN. SPACING	TENSION TEST VALUE **
3/8"	2 1/4"	2 5/8"	4"	6"	1,509#
1/2"	3 5/8"	4"	6"	4 3/4"	3,267#
5/8"	4 1/2"	4 3/4"	6 3/4"	12"	4,656#
3/4"	5 3/8"	5 3/4"	9"	13 1/4"	5,850#

- FOR SINGLE ANCHORS WITH NO EDGE DISTANCE OR SPACING REDUCTION. FOR OTHER CASES, REDUCTION OF VALUES CALCULATED PER ACI 308 IS REQUIRED.
- TENSION TEST VALUES ONLY AND CORRESPOND WITH 1.5x CRACKED CONCRETE SEISMIC TENSION LOADS.
- LVF (Low Velocity Fasteners), HLTI, ICC ESR-2264**
- IN NORMAL WEIGHT CONCRETE: 0.157" X-U FASTENER, 1" MIN. EMBEDMENT 3" EDGE DISTANCE, MIN. 4" O.C. SPACING.
- IN LIGHT WEIGHT CONCRETE: 0.157" X-U FASTENER, 1 1/2" MIN. EMBEDMENT 3" EDGE DISTANCE, MIN. 4" O.C. SPACING.
- IN STRUCTURAL STEEL: 0.157" X-U FASTENER, 1/2" MIN. EDGE DISTANCE, 1" MIN. SPACING. THE ENTIRE POINTED PORTION OF L.V.F. MUST COMPLETELY PENETRATE THE STEEL.
- IN CMU: 0.157" X-U FASTENER, 1" MIN. EMBEDMENT.

CONTRACTOR SUBMITTALS
THE FOLLOWING IS A LISTING OF REQUIRED ITEMS TO BE SUBMITTED TO STRUCTURAL ENGINEER OF RECORD (TO BE PROVIDED IF MARKED):

SUBMITTAL	CERTIFICATE	SHOP DRAWINGS (2)	CALCS W/ ENG. STAMP	DEFERRED SUBMITTAL (1)
COLD FORMED METAL FRAMING	X	X		

- DEFERRED SUBMITTALS SHALL FIRST BE SUBMITTED TO THE PROJECT ARCHITECT AND/OR ENGINEER FOR REVIEW AND COORDINATION, THEN SUBMITTED TO THE APPROPRIATE JURISDICTION FOR APPROVAL. THIS SUBMITTAL SHALL INCLUDE HOHBACH-LEWIN'S SHOP DRAWING STAMP INDICATING THE STRUCTURAL REVIEW HAS BEEN COMPLETED AND THAT THE PLANS AND CALCULATIONS FOR THE DEFERRED APPROVAL ITEMS ARE IN GENERAL COMPLIANCE WITH THE INFORMATION PROVIDED WITHIN THE CONTRACT DOCUMENTS.
- ELECTRONIC SHOP DRAWINGS ARE TO BE SUBMITTED TO HOHBACH-LEWIN FOR REVIEW. AT HOHBACH-LEWIN'S REQUEST, THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HARD COPIES OF SHOP DRAWINGS FOR REVIEW.

STRUCTURAL SHEET INDEX

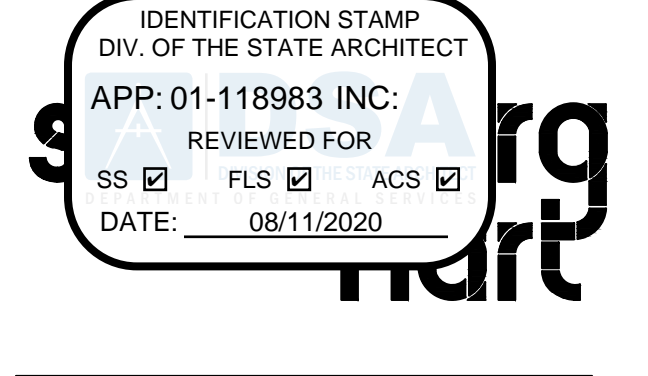
5.10	STRUCTURAL GENERAL NOTES
5.200	(E) PARTIAL 2ND FLOOR AND ROOF FRAMING PLANS
5.91	LIGHT GAUGE DETAILS
5.92	LIGHT GAUGE DETAILS

ABBREVIATIONS

#	AND	MAX.	MAXIMUM
Ø	AT	MEGH.	MECHANICAL
A.B.	ANCHOR BOLT	MANUF.	MANUFACTURER
ADDL.	ADDITIONAL	M.B.	MACHINE BOLTS
ARCH.	ARCHITECTURAL	MIN.	MINIMUM
		MISC.	MISCELLANEOUS
		MTL.	METAL
B.L.D.S.	BUILDING	N	NORTH
B.L.G.S.	BLOCKING	(N)	NEAR
BM.	BEAM	NO.	NUMBER
BOT.	BOTTOM	N.S.	NEAR SIDE
¢	CENTER LINE	N.T.S.	NOT TO SCALE
CBG	CALIFORNIA BUILDING CODE	O.C.	ON CENTER
CLR.	CLEAR	OPF.	OPENING
COL.	COLUMN	OPP.	OPPOSITE
CONC.	CONCRETE	O.H.	OPPOSITE HAND
CONN.	CONNECTION	PL.	PLATE
CONT.	CONTINUOUS	PERP.	PERPENDICULAR
CTR.	CENTER	REF.	REINFORCEMENT
DBL.	DOUBLE	REQD.	REQUIRED
DET.	DETAIL	SCHED.	SCHEDULE
DIA.	DIAMETER	S.D.S.	SELF-DRIVING SCREW
DO	DITTO	SM.	SIMILAR
DWG.	DRAWINGS	SMS	SHEET METAL SCREW
E	EAST	S.O.G.	SLAB-ON-GRADE
(E)	EXISTING	SPEC.	SPECIFICATION
EA.	EACH	SG.	SQUARE
E.F.	EACH FACE	S.S.	STAINLESS STEEL
EL.	ELEVATION	STD.	STANDARD
E/W.	EACH WAY	SYM.	SYMMETRICAL
EXP.	EXPANSION	T&B	TOP AND BOTTOM
EXT.	EXTERIOR	T.O.C.	TOP OF CONCRETE
		T.O.S.	TOP OF STEEL FRAMING
FDN.	FOUNDATION	T.O.P.	TOP OF PLATE/ TOP OF PARAPET
FIN.	FINISH	TRANS.	TRANSVERSE
F.F.	FRESH FLOOR	TYP.	TYPICAL
F.G.	FINISHED GRADE	U.O.N.	UNLESS OTHERWISE NOTED
FLR.	FLOOR	VERT.	VERTICAL
F.O.C.	FACE OF CONCRETE	V.I.F.	VERIFY IN FIELD
F.O.S.	FACE OF STUD		
F.S.	FAR SIDE	W/	WITH
FTG.	FOOTING	W/F.	WIDE FLANGE
GA.	GAUGE	W/O	WITHOUT
G.C.	GENERAL CONTRACTOR	W/P.	WORK POINT
HDR.	HEADER		
HGR.	HANGER		
HORIZ.	HORIZONTAL		
HT.	HEIGHT		
INT.	INTERIOR		
J.H.	JOIST HANGER		
LONG.	LONGITUDINAL		
L.V.F.	LOW-VELOCITY FASTENER		

SYMBOLS

	DETAIL NUMBER
	SHEET NUMBER
	(E) STRUCTURAL STEEL COLUMN
	(E) SEISMIC MOMENT CONNECTION
	(E) DENOTE NON-SEISMIC MOMENT RESISTING CONNECTIONS.
	DENOTE NON-SEISMIC MOMENT RESISTING CONNECTIONS.
	(E) CONCRETE FILL OVER STEEL DECK



CLIENT
Chabot Las-Positas Community College
District
5000 Franklin Dr.
Pleasanton, CA 94588
ARCHITECT
Shainberg Hart
125 S. Market St., Suite
110
San Jose, CA 95113



RE: DATE: ISSUE:
MICHAEL W. REILLY
REGISTERED PROFESSIONAL ENGINEER
STRUCTURAL ENGINEERING
STATE OF CALIFORNIA

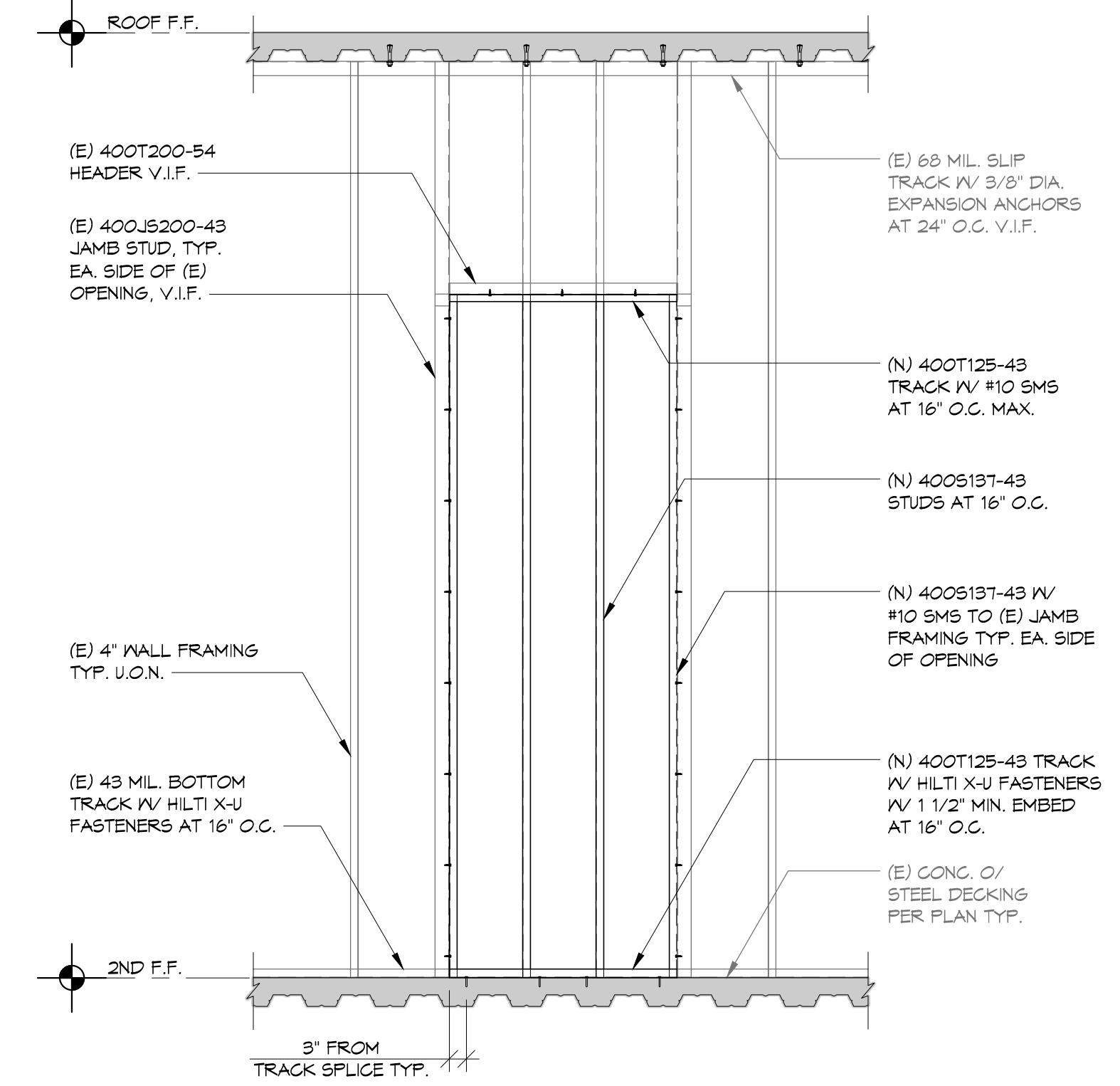
Administration Services Interior Improvements
3000 Campus Hill Drive, Livermore CA

PROJECT #: 20057-100
DATE: August 10, 2020
DRAWN BY:
CHECKED BY:
SCALE: AS NOTED

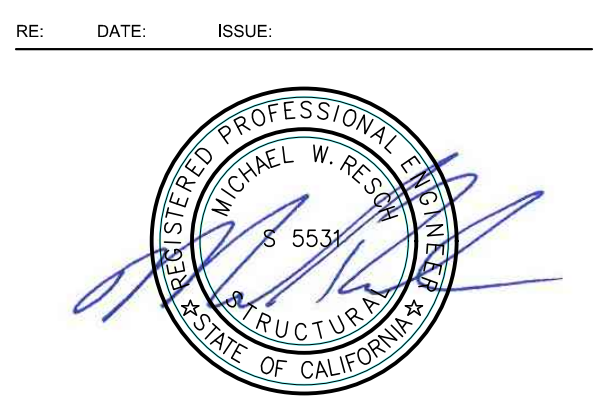
STRUCTURAL GENERAL NOTES

S.10
Project Status

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13	9	5	
14	10	6	2 (E) DOOR INFILL AT NON-STRUCTURAL PARTITION 1/2"=1'-0"
15	11	7	3
16	12	8	4



Administration Services Interior Improvements

3000 Campus Hill Drive, Livermore CA

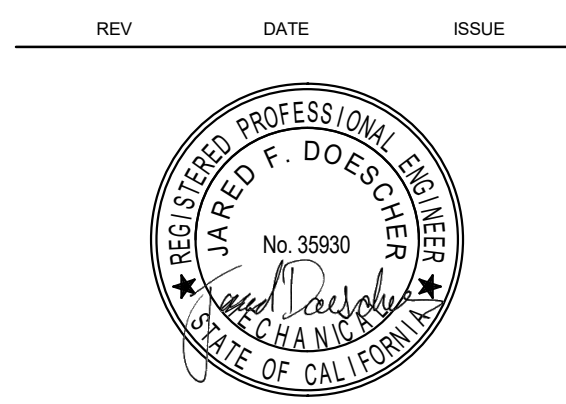
PROJECT #: 20057.100
 DATE: August 10, 2020
 DRAWN BY:
 CHECKED BY:
 SCALE: AS NOTED

LIGHT GAUGE DETAILS

GENERAL MECHANICAL NOTES

- A. PROVIDE MISCELLANEOUS METALS AND MATERIALS FOR A COMPLETE INSTALLATION (IE. SUPPORT, BRACING, ETC.)
- B. PROVIDE EQUIPMENT SUBMITTAL, FOR REVIEW, IN ACCORDANCE WITH THE SPECIFICATIONS. DO NOT DELIVER TO THE JOB SITE ANY PRODUCTS WITHOUT PRIOR REVIEW BY THE ARCHITECT. SUBMIT ALL REQUIRED SUBMITTALS AT ONE TIME. AT CONTRACTOR'S OPTION, 3 SEPARATE SUBMITTALS MAY BE SUBMITTED, CONSISTING OF: UNDERGROUND WORK, BUILDING WORK, AND BUILDING AUTOMATION SYSTEM - DEVIATIONS WILL BE RETURNED WITHOUT REVIEW. INCOMPLETE SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. ENGINEER WILL PROVIDE MAXIMUM OF TWO REVIEWS OF SUBMITTAL PACKAGE. ARRANGE FOR ADDITIONAL REVIEWS AND/OR EARLY REVIEW OF LONG-LEAD ITEMS AND BEAR COSTS OF THESE ADDITIONAL REVIEWS AT ENGINEER'S STANDARD HOURLY RATES. SUBSTITUTION REQUESTS WILL NOT BE REVIEWED AFTER AWARD OF CONTRACT.
- C. PROVIDE SMOKE DETECTORS IN MAIN SUPPLY AIR DUCT OF ANY SUPPLY AIR SYSTEM WITH AIR QUANTITY OF MORE THAN 2000 CFM OR OF SUPPLY AIR SYSTEM(S) WHERE THE COMBINED SUPPLY AIR QUANTITY OF SUPPLY AIR SYSTEM(S) SUPPLYING AIR INTO ONE ZONE EXCEED 2000 CFM.
- D. WHERE COMBINATION FIRE AND SMOKE DAMPER IS SHOWN IMMEDIATELY BEHIND A WALL MOUNTED GRILLE AND THERE IS INSUFFICIENT ACCESS AT DUCTWORK, ENLARGE THE WIDTH OF THE GRILLE AND FSD BY A MINIMUM OF 6 INCHES, OR AS OTHERWISE REQUIRED BY FSD MANUFACTURER, AND PROVIDE A "FRONT ACCESS" FSD FOR ACCESS TO FSD COMPONENTS FROM FACE OF GRILLE. INSTALL GRILLE FLUSH WITH WALL SURFACE AND LOCATE DAMPER ACTUATOR OUTSIDE OF THE AIRSTREAM. FSD'S SHALL BE RUSKIN FSD-60FA OR EQUAL.
- E. PRIOR TO SUBMISSION OF BID, REVIEW A COMPLETE SET OF CONSTRUCTION DOCUMENTS INCLUDING ALL OTHER TRADES'. INCLUDE ADDITIONAL PIPE OR DUCT OFF-SETS THAT MAY BE REQUIRED TO CLEAR STRUCTURE, FINISHES OR WORK OF OTHER TRADES. FIELD VERIFY EXACT LOCATION AND SIZES OF EXISTING UTILITIES. THE PROPOSED POINT OF CONNECTIONS TO EXISTING SYSTEMS, AND NEW ROUTINGS, EXTRA PAYMENTS WILL NOT BE ALLOWED FOR WORK RESULTING FROM LACK OF APPRAISAL OF ENTIRE SCOPE OF WORK PRIOR TO BID. SYSTEM LAYOUTS AS INDICATED ON DRAWINGS ARE GENERALLY DIAGNOSTIC BUT SHALL BE FOLLOWED AS CLOSELY AS ACTUAL CONSTRUCTION WILL PERMIT.
- F. PROVIDE DUCT ACCESS DOORS FOR EQUIPMENT AND DEVICES REQUIRING ACCESS OR RESETTING (IE. FIRE AND SMOKE DAMPERS, SMOKE DAMPERS, SENSORS, ETC.) INDICATE SIZE AND LOCATION ON COORDINATED SHOP DRAWINGS.
- G. PROVIDE DUCTWORK AND TRANSITIONS EQUAL TO DUCT FREE AREA SHOWN ON DRAWINGS, TO PREVENT A SPATIAL CONFLICT. AT CONTRACTOR'S OPTION AND IF SPATIAL CONSTRAINTS ALLOW IT, ROUND SPIRAL DUCTWORK OF EQUAL CROSS-SECTIONAL AREA OR LARGER, MAY BE USED IN LIEU OF RECTANGULAR DUCTWORK WHERE SHOWN ON PLANS.
- H. USE FLEXIBLE DUCTS ONLY FOR THE LAST 5 FEET MAXIMUM AT AIR OUTLETS, EXCEPT FOR OSHDP PROJECTS WHERE A MAXIMUM OF 10 FEET MAY BE USED. PER 2016 CMC-603.4.1 EXCEPT FOR RESIDENTIAL OCCUPANCIES DO NOT USE FLEXIBLE DUCTWORK IN LIEU OF ELBOWS OR FITTINGS.
- I. PROVIDE MANUAL VOLUME DAMPERS AT EACH GRILLE, REGISTER, AND DIFFUSER, AND LOCATE EQUIDISTANCE BETWEEN BRANCH TAKEOFF AND AIR INLET/OUTLET. DO NOT USE VOLUME DAMPERS INTEGRAL WITH GRILLES, DIFFUSERS AND REGISTERS FOR AIR BALANCING.
- J. INSTALL EQUIPMENT WITH SUFFICIENT ACCESS TO PANELS, CONTROLS, FILTERS, MOTORS, ETC. COORDINATE ACCESS TO ALL DAMPERS, VALVES, AND OTHER SERVICEABLE EQUIPMENT. REVIEW CEILING HEIGHTS AND COORDINATE ACCESS PANEL LOCATIONS.
- K. COORDINATE EQUIPMENT PLATFORMS, AND CUTTING AND PATCHING. OBTAIN WRITTEN PERMISSION FROM THE ARCHITECT PRIOR TO ANY STRUCTURAL MODIFICATIONS, CUTTING OR PATCHING WORK. KEEP SAW CUTTING TO A MINIMUM.
- L. VERIFY DIFFUSERS, GRILLES, AND REGISTER MOUNTING FRAME TYPES WITH CONSTRUCTION TYPE AND CONFIGURATION.
- M. PROTECT AND ISOLATE DUCTS STORED ON CONSTRUCTION SITE FROM DUST CONTAMINATION.
- N. COORDINATE LOCATION OF SENSORS AND THERMOSTATS WITH ARCHITECT. COMPLY WITH ADA REQUIREMENTS.
- O. "DEMOLISH" OR "REMOVE" MEAN: REMOVE AND RETURN TO OWNER FOR ACCEPTANCE, AND DISPOSE OF ANY ITEMS NOT ACCEPTED BY THE OWNER.
- P. SEE EQUIPMENT SCHEDULES FOR BRANCH PIPE SIZES TO EQUIPMENT, WHERE PIPE SIZES ARE NOT SHOWN ON PLANS.
- Q. PROVIDE REMOTE DAMPER OPERATORS AS MANUFACTURED BY YOUNG REGULATOR COMPANY, MODEL 515 AND 270-276, OR EQUAL, FOR DAMPERS ABOVE INACCESSIBLE CEILINGS (SUCH AS GYPOBOR).
R. COORDINATE WITH DIVISION 26 FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR MECHANICAL EQUIPMENT DEVICES. PROVIDE STARTERS FOR EQUIPMENT WITHOUT VFD'S, ECM MOTORS, OR EQUIPMENT WITHOUT INTEGRAL STARTERS.
- S. MAINTAIN MINIMUM ELECTRICAL CODE AND UNIT MANUFACTURER'S CLEARANCES TO ADJACENT CONSTRUCTION OR EQUIPMENT, PER CEC OR THE FOLLOWING TABLE:

	0-150 VOLT	150-800
NO LIVE OR GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	36 INCH
GROUNDED PARTS ON OPPOSITE SIDE	36 INCH	42 INCH
LIVE PARTS ON OPPOSITE SIDE	36 INCH	48 INCH



Administration Services Interior Improvements

Las Positas College
3000 Campus Hill Dr.,
Livermore, CA 94551

DSA File #: 1-C2
DSA Application #: 01-118983

SYMBOL LIST AND GENERAL NOTES & TITLE 24 COMPLIANCE FORMS - MECHANICAL

REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE: 1/2" = 1'-0"

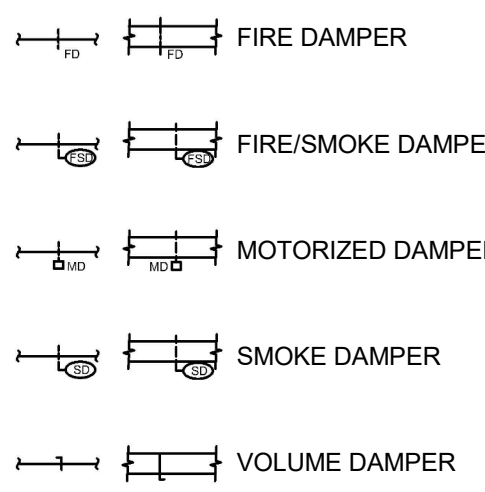
MECHANICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

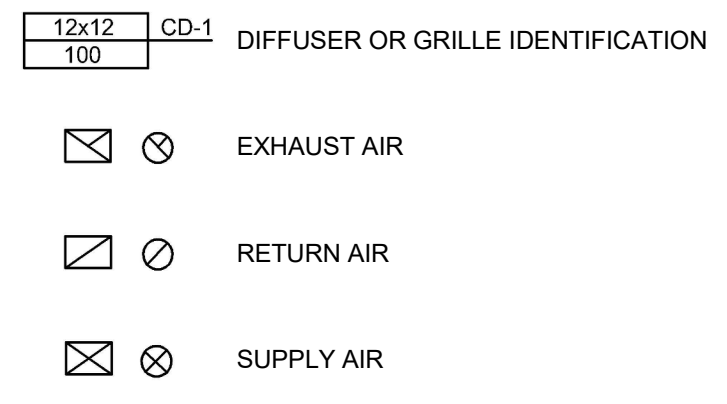
Abbreviations

AF	ABOVE FINISHED FLOOR
AD	ACCESS DOOR
A/C	AIR CONDITIONED
BDD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BFF	BELOW FINISHED FLOOR
BHP	BRAKE HORSEPOWER
CD	CEILING DIFFUSER
CV	CHECK VALVE
COP	COEFFICIENT OF PERFORMANCE
CH	COLD WATER
CH	CONDENSATE DRAIN
CU	CONDENSING UNIT
CONT.	CONTINUATION
DB	DECIBEL
DIA	DIAMETER
DX	DIRECT EXPANSION
D	DROP
DB	DRY BULB
EFF	EFFICIENT
ELECT	ELECTRICAL
EER	ENERGY EFFICIENCY RATING
EAT	ENTERING AIR TEMPERATURE
EW	ENTERING WATER TEMPERATURE
EXH	EXHAUST
EF	EXHAUST FAN
F	FAHRENHEIT
FT	FEET
FD	FIRE DAMPER
FLU	FLUE LAMP
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HD	HEAD
HTR	HEATER
HTG	HEATING
HP	HORSEPOWER
HWC	HOT WATER COIL
IN	INCHES
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
KW	KILOWATT
LH	LATENT HEAT
LHW	LEAVING AIR TEMPERATURE
MAX	MAXIMUM
MIN	MINIMUM
MA	MIXED AIR
MD	MOTORIZED DAMPER
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OB	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
OD	OUTSIDE DIAMETER
PH	PHASE
LBS	POUNDS
PSI	POUNDS PER SQUARE INCH
PD	PRESSURE DROP
PRV	PRESSURE REDUCING VALVE
QTY	QUANTITY
RET	RETURN
RA	RETURN AIR
RM	REVOLUTIONS PER MINUTE
R	RISE
SEER	SEASONAL ENERGY EFFICIENCY RATING
SH	SHUT OFF VALVE
SOV	SHUT OFF VALVE
SF	SQUARE FEET
SP	STATIC PRESSURE
SA	SUPPLY AIR
T	TEMPERATURE
TD	TEMPERATURE DIFFERENCE
MBH	THOUSAND BTU'S PER HOUR
TH	TOTAL HEAT
TP	TOTAL PRESSURE
V	VOLT
WC	WATER COLUMN
W	WATT
WB	WET BULB
W	WITH
CHWMS	CHWMS
CHWMR	CHWMR

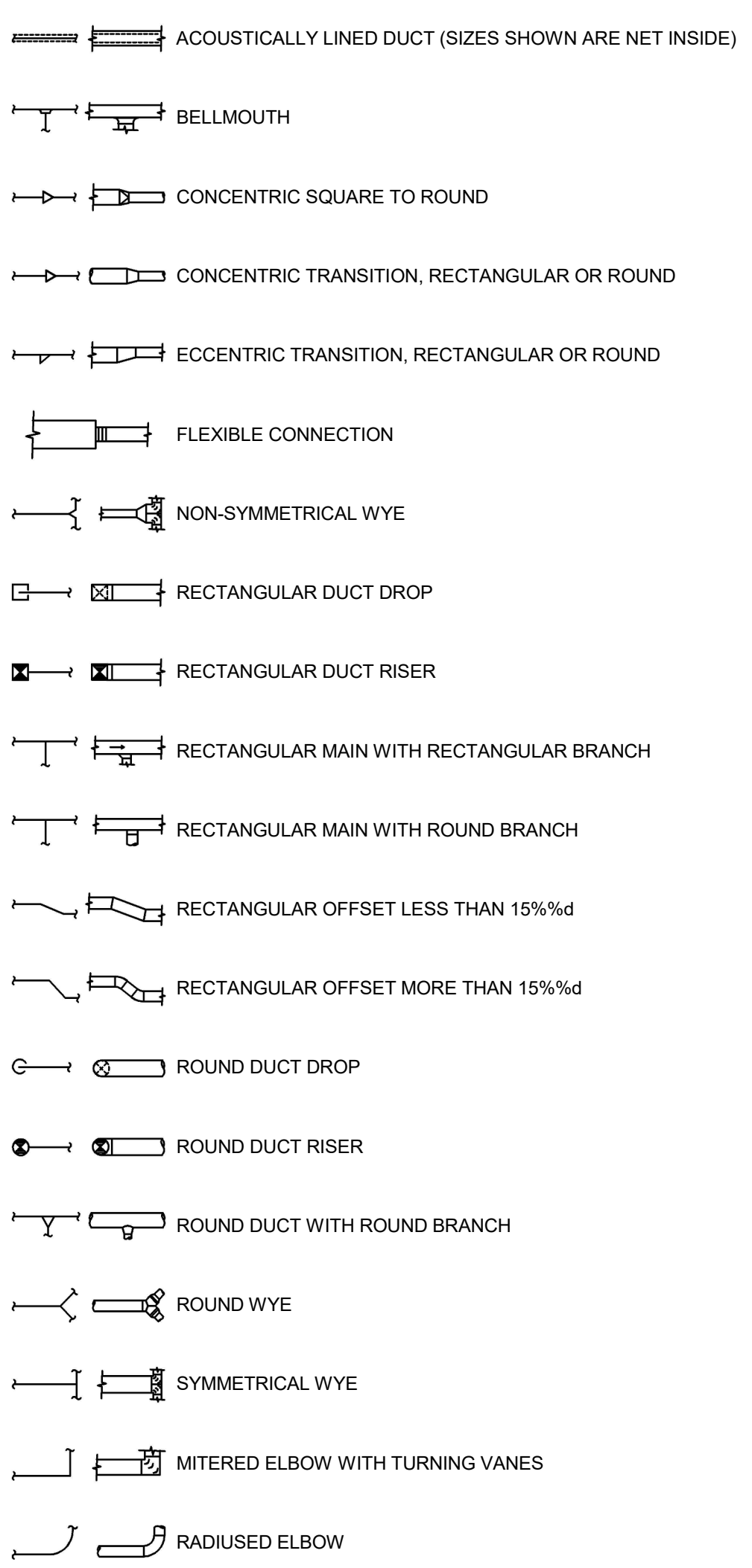
Dampers



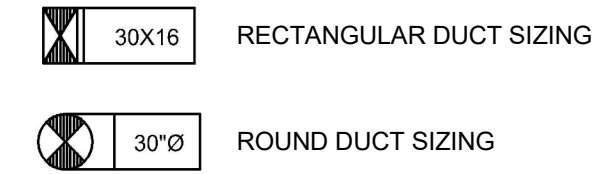
Diffusers and Grilles



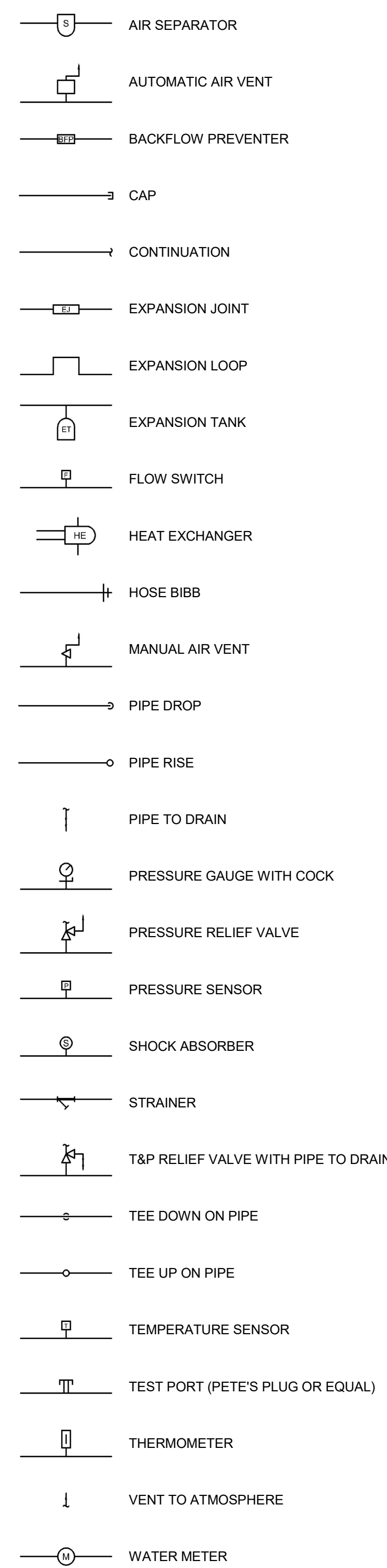
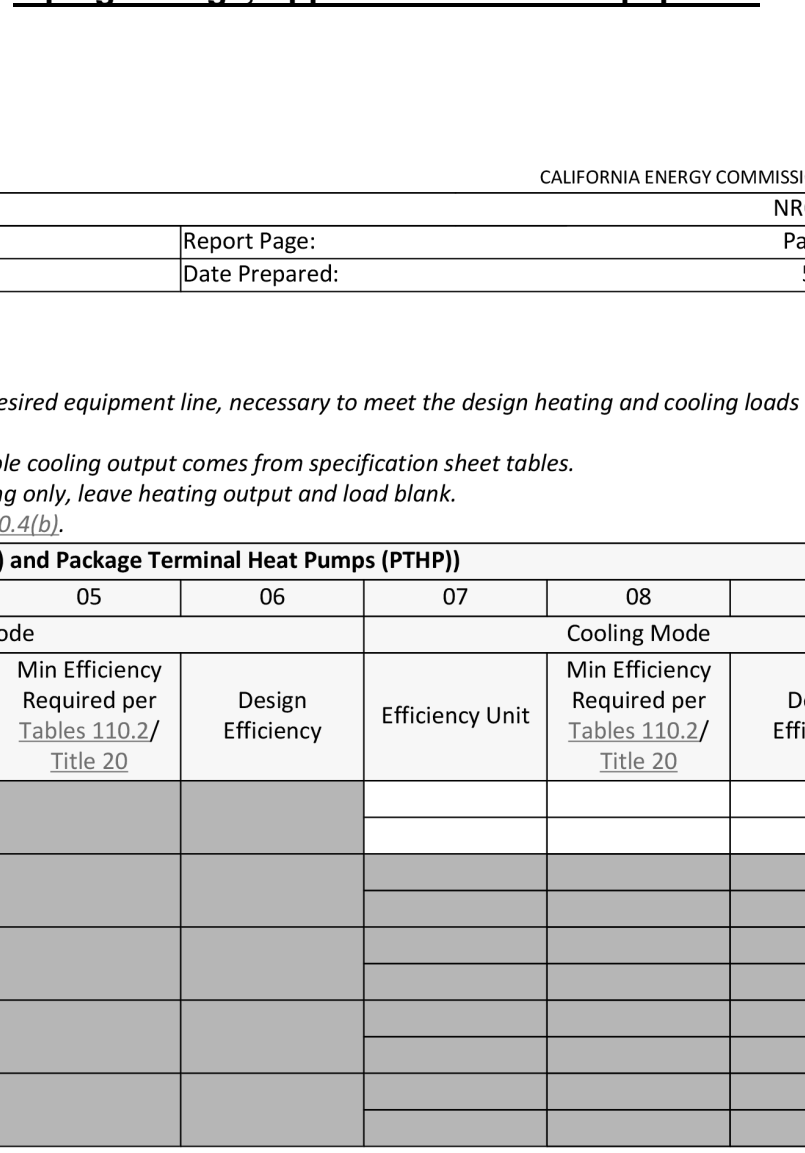
Ductwork Fittings



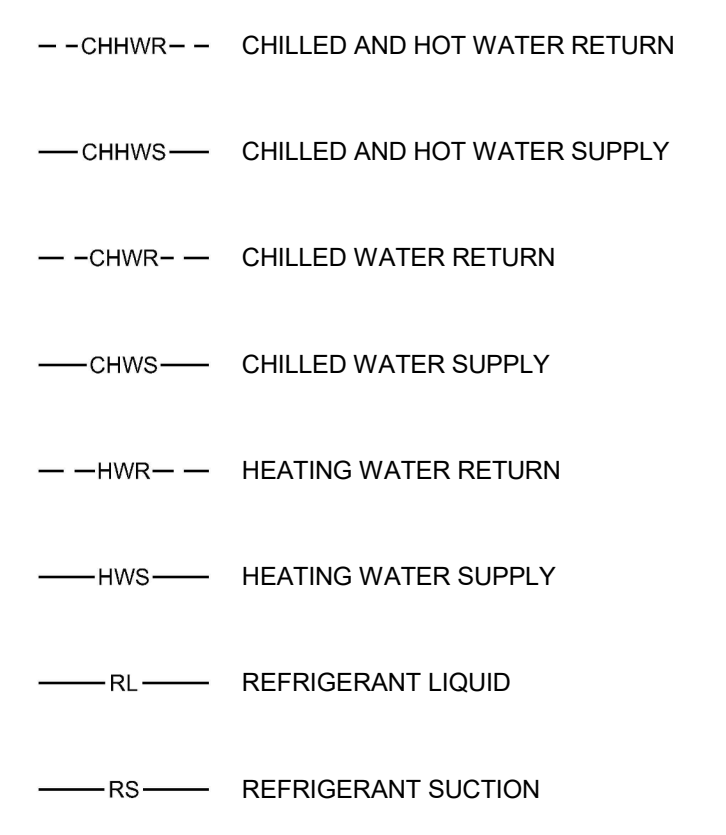
General



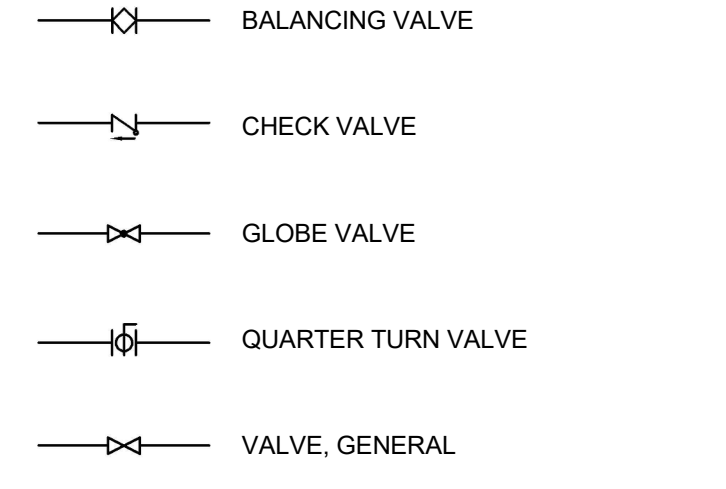
Piping Fittings, Appurtenances and Equipment



Piping Systems



Piping Valves



DSA COMPONENT ANCHORAGE NOTES

- A. ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26, AND ASCE 7-16 CHAPTER 13, 26 AND 30.
 1. ALL PERMANENT EQUIPMENT AND COMPONENTS
 2. TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER
 3. MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.
- B. THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT THE ATTACHMENT NEED TO BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENTS AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.
 1. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
 2. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.
- C. FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

- A. PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.6.8, 13.6.7, 13.6.5.6, AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.
- B. THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL BE DETAILED ON THE APPROVED DRAWINGS OR THEY SHALL COMPLY WITH ONE OF THE OSHDP PRE-APPROVALS (OPM #).
- C. COPIES OF THE MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF HANGING AND BRACING OF THE PIPE, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS.

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
MECHANICAL SYSTEMS
NRCC-MCH-E (Created 5/20)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4 or §141.0(b)(2) for alterations.

Project Name: Administration Service Interior Improvements Report Page: Page 1 of 10
Project Address: 3000 Campus Hill Dr, Livermore Date Prepared: 5/22/2020

A. GENERAL INFORMATION

01 Project Location (city)	Livermore	04 Total Conditioned Floor Area	775
02 Climate Zone	12	05 Total Unconditioned Floor Area	0
03 Occupancy Types Within Project:		06 # of Stories (Habitable Above Grade)	1
<input checked="" type="checkbox"/> Office (B)	<input type="checkbox"/> Retail (M)	<input type="checkbox"/> Non-refrigerated Warehouse (S)	
<input type="checkbox"/> Hotel/ Motel Guest Rooms (R-1)	<input type="checkbox"/> School (F)	<input type="checkbox"/> Healthcare Facility (H)	
<input type="checkbox"/> High-rise Residential (R-2)(R-3)	<input type="checkbox"/> Reconfigurable Class Bldg (E)	<input type="checkbox"/> Other (Write in):	

FOOTNOTES: Climate zone can be determined on the California Energy Commission's website at http://www.energy.ca.gov/maps/renewable/building_climate_zones.html

B. PROJECT SCOPE

Table instructions: include any mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4 or §141.0(b)(2) for alterations.

My project consists of (check all that apply)		
01	02	03
Air System(s)	Wet System Components	Dry System Components
<input checked="" type="checkbox"/> Heating Air System	<input type="checkbox"/> Water Economizer	<input type="checkbox"/> Air Economizer
<input checked="" type="checkbox"/> Cooling Air System	<input type="checkbox"/> Pumps	<input type="checkbox"/> Electric Resistance Heat
	<input type="checkbox"/> Mechanical Controls	<input checked="" type="checkbox"/> Hydronic System Piping
		<input type="checkbox"/> Fan Systems
<input checked="" type="checkbox"/> Mechanical Controls	<input checked="" type="checkbox"/> Cooling Towers	<input type="checkbox"/> Ductwork
	<input type="checkbox"/> Chillers	<input type="checkbox"/> Ventilation
	<input type="checkbox"/> Boilers	<input type="checkbox"/> Zonal Systems/Terminal Boxes

C. COMPLIANCE RESULTS

Table instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

01	02	03	04	05	06	07	08	09	
System Summary	Pumps	Fans/Economizers	System Controls	Ventilation	Terminal Box Controls	Distribution	Cooling Towers		Compliance Results
§110.2, §110.3, §140.4 (See Table I)	AND §140.4(b) (See Table G)	AND §140.4(b), §140.4(d) (See Table H)	AND §110.2, §120.2, §140.4(d) (See Table I)	AND §120.1 (See Table K)	AND §140.4(d) (See Table K)	AND §120.3, §120.4 (See Table L)	AND §110.2(c)(2) (See Table M)		COMPLIES
Yes	AND	AND	Yes	AND	Yes	AND	Yes	AND	COMPLIES

Mandatory Measures Compliance (See Table Q for Details) **COMPLIES**

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> May 2020

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
MECHANICAL SYSTEMS
NRCC-MCH-E (Created 5/20)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4 or §141.0(b)(2) for alterations.

Project Name: Administration Service Interior Improvements Report Page: Page 2 of 10
Project Address: 3000 Campus Hill Dr, Livermore Date Prepared: 5/22/2020

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Transfer air is being used in at least one zone to meet minimum ventilation requirements. See Table I for detail.
Selections made in Table O have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

T1 renovation consisting of adding 3 new offices and enlarging an existing office. No new mechanical equipment

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Table instructions: Complete the following equipment schedules to show compliance with mandatory requirements found in §110.2 and §110.2(a) and prescriptive requirements found in §140.4(a), §140.4(b) and §140.4(c) or §141.0(b)(2) for alterations.

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters)

01	02	03	04	05	06	07	08	09	10	11
Name or Item Tag	Equipment Category per Tables 110.2 & 110.2.2	Equipment Type per Tables 110.2 & Table 20	Smallest Size Available ¹ §140.4(a)	Heating Output ^{2,3}		Cooling Output ^{2,3}		Load Calculations ^{4,5}		
				Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Cooling Load (kBtu/h)
(E)290A	Unitary AC/ Condensers	AC, water cooled	Yes	0.9	0.9	0	1.9	1.9	12.3	5
(E)VP290E	Unitary AC/ Condensers	AC, water cooled	Yes	0.4	0.4	0	0.8	0.8	6.1	4.1
(E)290F	Unitary AC/ Condensers	AC, water cooled	Yes	0.27	0.27	0	0.13	0.13	5.4	2.9
(E)290G	Unitary AC/ Condensers	AC, water cooled	Yes	0.27	0.27	0	0.13	0.13	5.4	2.9

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> May 2020

SHEET INDEX

M.01	SYMBOL LIST AND GENERAL NOTES & TITLE 24 COMPLIANCE FORMS - MECHANICAL
M.02	COMPLIANCE FORMS - MECHANICAL SCHEDULES & TITLE 24 COMPLIANCE FORMS - MECHANICAL
M.21	ENLARGED FLOOR PLAN - DEMO AND NEW WORK - MECHANICAL
M.22	ENLARGED FLOOR PLAN - DEMO AND NEW WORK - MECHANICAL PIPING
M.51	DETAILS & CONTROL DIAGRAMS - MECHANICAL
M.52	DETAILS - MECHANICAL
M.61	SPECIFICATIONS - MECHANICAL

STATE OF CALIFORNIA
CALIFORNIA ENERGY COMMISSION
MECHANICAL SYSTEMS
NRCC-MCH-E (Created 5/20)

CERTIFICATE OF COMPLIANCE
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.4 or §141.0(b)(2) for alterations.

Project Name: Administration Service Interior Improvements Report Page: Page 3 of 10
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Table Continued

¹ FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per §110.2(a). Health-care facilities are exempted.
² It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
³ If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
⁴ Authority Having Jurisdiction may ask for load calculations used for compliance per §140.4(b).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP))

01	02	03	04	05	06	07	08	09
Name or Item Tag	Size Category (Btu/h)	Rating Condition (F)	Efficiency Unit	Min Efficiency Required per Tables 110.2 & Title 20	Design Efficiency	Efficiency Unit	Min Efficiency Required per Tables 110.2 & Title 20	Design Efficiency
	>65,000 and <135,000							

G. PUMPS

This Section Does Not Apply

H. FAN SYSTEMS & AIR ECONOMIZERS

This Section Does Not Apply

I. SYSTEM CONTROLS

Table instructions: Complete the following Table to demonstrate compliance with mandatory controls in §110.2 and §120.2 and prescriptive controls in §140.4(f) and (g) or requirements in §141.0(b)(2) for altered space conditioning systems.

Table Continued

CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance: <http://www.energy.ca.gov/title24/2019standards/> May 2020

ROOM/TAG	QTY	AREA SERVED	MFR	MODEL	LENGTH (FT)	WIDTH (IN)	AIR INLET Ø (IN)	ROOM CONDITIONS				FROM AHU-2 LAT		TOTAL COOLING CAPACITY (BTUH)	TOTAL HEATING CAPACITY (BTUH)	HOT WATER FLOW (GPM)	CHILLED WATER FLOW (GPM)	HOT WATER EWT (°F)	CHILLED WATER EWT (°F)	MAX WT (LBS)	NOTES	
								COOLING		HEATING		EAT COOLING (F)	EAT HEATING (F)									
								(F)	RH	(F)	RH	(F)	(F)									
(E) CB-1	1	VP OFFICE 290E	TROX	DID632-HC-4-G	4	24	5	75	50	70	50	75	65	65	3934	6104	0.25	2	160	58	65	1
(E) CB-2	1	VP OFFICE 290E	TROX	DID632-HC-4-G	4	24	5	75	50	70	50	75	65	65	3934	6104	0.25	2	160	58	65	1
(E) CB-3	1	VP OFFICE 290E	TROX	DID632-HC-4-Z	6	24	5	75	50	70	50	25	65	65	2885	5439	0.25	2.5	160	58	65	2
(E) CB-4	1	OFFICE 2 290F	TROX	DID632-HC-4-Z	6	24	5	75	50	70	50	25	65	65	2885	5439	0.25	2.5	160	58	65	2
(E) CB-5	1	OFFICE 3 290G	TROX	DID632-HC-4-Z	6	24	5	75	50	70	50	25	65	65	2885	5439	0.25	2.5	160	58	65	2
(E) CB-6	1	OFFICE 4 290A	TROX	DID632-HC-4-U	6	24	5	75	50	70	50	35	65	65	4992	12334	0.5	0.5	160	58	65	1.3

NOTES:
1. CHILLED BEAM WITH EXISTING PIPING TO REMAIN
2. CHILLED BEAM WITH NEW PIPING CONNECTIONS
3. REBALANCE CHILLED BEAM TO SCHEDULED CFM

SYMBOL	TYPE	FACE	FRAME	DAMPER	BASIS OF DESIGN	NOTES
CRG-1	CEILING RETURN DIFFUSER	PLAQUE	LAY-IN	NONE	TITUS OMNI	1

NOTES:
1. FINISH TO BE #26 WHITE

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 8 of 10
Project Address: 3000 Campus Hill Dr, Livermore Date Prepared: 5/22/2020

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be completed by a HERS Rater and provided to the building inspector during construction. The final documents must be created by a HERS Providers registry, but drafts can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/.

YES	NO	Form/Title	Field Inspector	Pass	Fail
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-04-H Duct Leakage Test NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-24 Enclosure Air Leakage Worksheet NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-27 High-rise Residential NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="radio"/>	<input checked="" type="radio"/>	NRCC-MCH-32 Local Mechanical Exhaust NOTE: Must be completed by a HERS Rater	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 5/20)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 9 of 10
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Q. MANDATORY MEASURES DOCUMENTATION LOCATION
Table Instructions: Indicate where mandatory measures are documented in the plan set or construction documentation. For any mandatory measures that do not apply, mark the plan sheet or construction document location as "N/A", any active cells that are left blank will result in non-compliance in Table C.

01	02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block:	Yes Plan sheet or construction document location M.61

STATE OF CALIFORNIA
Mechanical Systems
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 10 of 10
Project Address: 3000 Campus Hill Dr, Livermore Date Prepared: 5/22/2020

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I, I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Jared Doescher
Company: Interface Engineering
Address: 135 Main St, Suite 400
City/State/Zip: San Francisco / CA / 94105

Documentation Author Signature: [Signature]
Signature Date: 4/14/2020
CEA/HERS Certification Identification (if applicable):
Phone: 415 489 3225

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Jared Doescher
Company: Interface Engineering
Address: 135 Main St, Suite 400
City/State/Zip: San Francisco / CA / 94105

Responsible Designer Signature: [Signature]
Date Signed: 4/14/2020
License: 35930
Phone: 415 489 3225

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 5/20)
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 6 of 10
Project Address: 3000 Campus Hill Dr, Livermore Date Prepared: 5/22/2020

L. DISTRIBUTION (DUCTWORK AND PIPING)
Table Instructions: Complete the following tables to show compliance with mandatory pipe insulation requirements found in §120.3 and prescriptive requirements found in §140.4(i) for duct leakage testing.

Mandatory Pipe Insulation

01	02	03	04	05	06	07	08	09	10
System Type	Nominal Pipe Diameter (in)	Fluid Temp. Range (°F)	Conductivity Range (Btu-in per hr per ft² per °F)	Insulation Mean Rating (°F)	Min. Insulation Thickness Required per Table 120.3-A (in)	Min. Insulation Thickness Required per §120.3(i)(2) (in)	Insulation Thickness per Design (in)	Exception to §120.3 (if applicable)	
Space cooling	1 to <1.5	40-60	0.21 - 0.27	75	0.5		1	Fluid design operating temp. 60-105°F	
Space heating	< 1	141-200	0.25 - 0.29	125	1.5		2	No exception taken	

M. COOLING TOWERS
This Section Does Not Apply

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector	Pass	Fail
<input checked="" type="radio"/>	<input type="radio"/>	NRCC-MCH-01-E - Must be submitted for all buildings.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCC/.

YES	NO	Form/Title	Field Inspector	Pass	Fail
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 5/20)
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CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 7 of 10
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NRCC-MCH-02-A Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.

NRCC-MCH-03-A Constant Volume Single Zone HVAC
NOTE: This form does not automatically move to "Yes". If Constant Volume Single Zone HVAC Systems are included in the scope, permit applicant should move this form to "Yes".

NRCC-MCH-04-A Air Distribution Duct Leakage

NRCC-MCH-05-A Air Economizer Controls

NRCC-MCH-06-A Demand Control Ventilation Systems Acceptance must be submitted for all systems required to employ demand controlled ventilation (refer to §120.1(i)(3) can vary outside ventilation flow rates based on maintaining interior carbon dioxide (CO2) concentration setpoints.

NRCC-MCH-07-A Supply Fan Variable Flow Controls

NRCC-MCH-08-A Valve Leakage Test

NRCC-MCH-09-A Supply Water Temperature Reset Controls

NRCC-MCH-10-A Hydronic System Variable Flow Controls

NRCC-MCH-11-A Automatic Demand Shed Controls

NRCC-MCH-12-A FDD for Packaged Direct Expansion Units

NRCC-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance

NRCC-MCH-14-A Distributed Energy Storage DX AC Systems Acceptance
NOTE: This form does not automatically move to "Yes". If Distributed Energy Storage DX AC Systems are included in the scope, permit applicant should move this form to "Yes".

NRCC-MCH-15-A Thermal Energy Storage
NOTE: This form does not automatically move to "Yes". If Chilled Water Storage, Ice-on-Coil Internal Melt, Ice-on-Coil External Melt, Ice Harvester, Brine, Ice-Slurry, Eutectic Salt, Chlorate Hydrate Slurry (CHS), Cryogenic or Encapsulated (Ice Ball) Systems are included in the scope, permit applicant should move this form to "Yes".

NRCC-MCH-16-A Supply Air Temperature Reset Controls

NRCC-MCH-17-A Condenser Water Temperature Reset Controls

NRCC-MCH-18 Energy Management Control Systems

NRCC-MCH-19 Occupancy Sensor Controls

NRCC-MCH-20 Multi-Family Ventilation

NRCC-MCH-21 Multi-Family Envelope Leakage

STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 4 of 10
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01	02	03	04	05	06	07	08	09
System Name	System Zoning	Conditioned Floor Area Being Served (ft²)	Thermostats §110.2(b) & (c)1 §120.2(a) or §141.0(b)(2)	Shut-Off Controls §120.2(a)	Isolation Zone Controls §120.2(a)	Demand Response §110.12 and §120.2(b)	Supply Air Temp. Reset §150.4(f)	Window Interlocks per §140.4(i)
(E) CB-X	single zone	≤ 25,000 ft²	EMCS	EMCS	EMCS	EMCS	NA: Alteration	NA: No operable windows

F. FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.
* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX System 1: SA Temp Reset: Exempt because zones compliant with §140.4(d). EXCEPTION 1 to §140.4(f)

J. VENTILATION AND INDOOR AIR QUALITY
Table Instructions: Complete the following Table to demonstrate compliance with mandatory ventilation requirements in §120.1 and §120.2(c)(3) for all nonresidential, high-rise residential and hotel/motel occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflow may be shown on the plans or the calculations can be presented in a spreadsheet.

01	02	03
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Table Continued

STATE OF CALIFORNIA
Mechanical Systems
NRCC-MCH-E (Created 5/20)
CALIFORNIA ENERGY COMMISSION

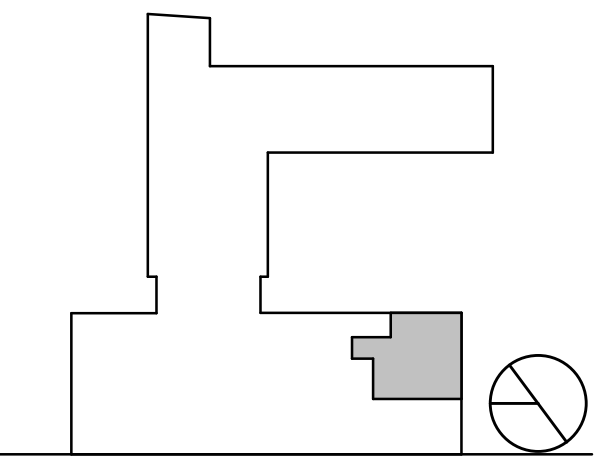
CERTIFICATE OF COMPLIANCE
Project Name: Administration Service Interior Improvements Report Page: Page 5 of 10
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Table Continued
Nonresidential and Hotel/ Motel Ventilation Systems

04	05	06	07					
System Name: (E) Chilled beam ductwork	System Design OA CFM Air Flow: 260	System Design Transfer Air CFM: 260	Air Filtration per §120.1(c) and §141.0(b)(2) NA: Not system type specified in Table J footnote 2					
08	09	10	11	12	13	14	15	16
Space Name or Item Tag	Occupancy Type*	Conditioned Floor Area (ft²)	# of showerheads/toilets	# of people†	Required Min OA CFM	Required Minimum CFM	Provided per Design CFM	Mechanical Ventilation Required per §120.1(c)(3)‡
								Exh. Vent. per §120.1(c)(4)
CB-1-6	Office space	916			137.4			DCV or Occupant Sensor Controls per §120.1(d)(3), §120.1(d)(5) & §120.2(a)(3)* DCV NA: Area <150 ft2 or design occupancy < 10 people Occ Sensor NA: Continuously operated per §120.2(e)(3) exception
17	Total System Required Min OA CFM	137.4	18	Ventilation for this System Complies?	Yes			

F. FOOTNOTES: System CFM should include both mechanical and natural ventilation for the zone/system.
* Air filtration requirements apply to the following three system types per §120.1(d)(3): space conditioning systems utilizing ducts to supply air to occupiable space; supply-only ventilation systems providing outside air to occupiable space; supply side of balanced ventilation systems including heat recovery and energy recovery ventilation systems providing outside air to occupiable space.
† Uniform Mechanical Code may have more stringent ventilation requirements; the most stringent code requirement takes precedence.
‡ See Standards Tables 120.1.4 and 120.1.9.
§ For lecture halls with fixed seating, the expected number of occupants shall be determined in accordance with the California Building Code.
¶ §120.2(a)(3) requires systems serving rooms that are required by §130.1(c) to have lighting occupancy sensing controls to also have occupancy sensing zone controls for ventilation. Examples of spaces which require lighting occupancy sensors include offices 250ft² or smaller, multipurpose rooms less than 1,000ft², classrooms, conference rooms, restrooms, aisles and open areas in warehouses, library book stack aisles, corridors, stairwells, parking garages, and loading and unloading zones, unless excepted by §130.1(c).

K. TERMINAL BOX CONTROLS
This Section Does Not Apply



Administration Services Interior Improvements
Las Positas College
3000 Campus Hill Dr., Livermore, CA 94551

DSA File #: 1-C2
DSA Application #: 01-118983

SCHEDULES & TITLE 24 COMPLIANCE FORMS - MECHANICAL

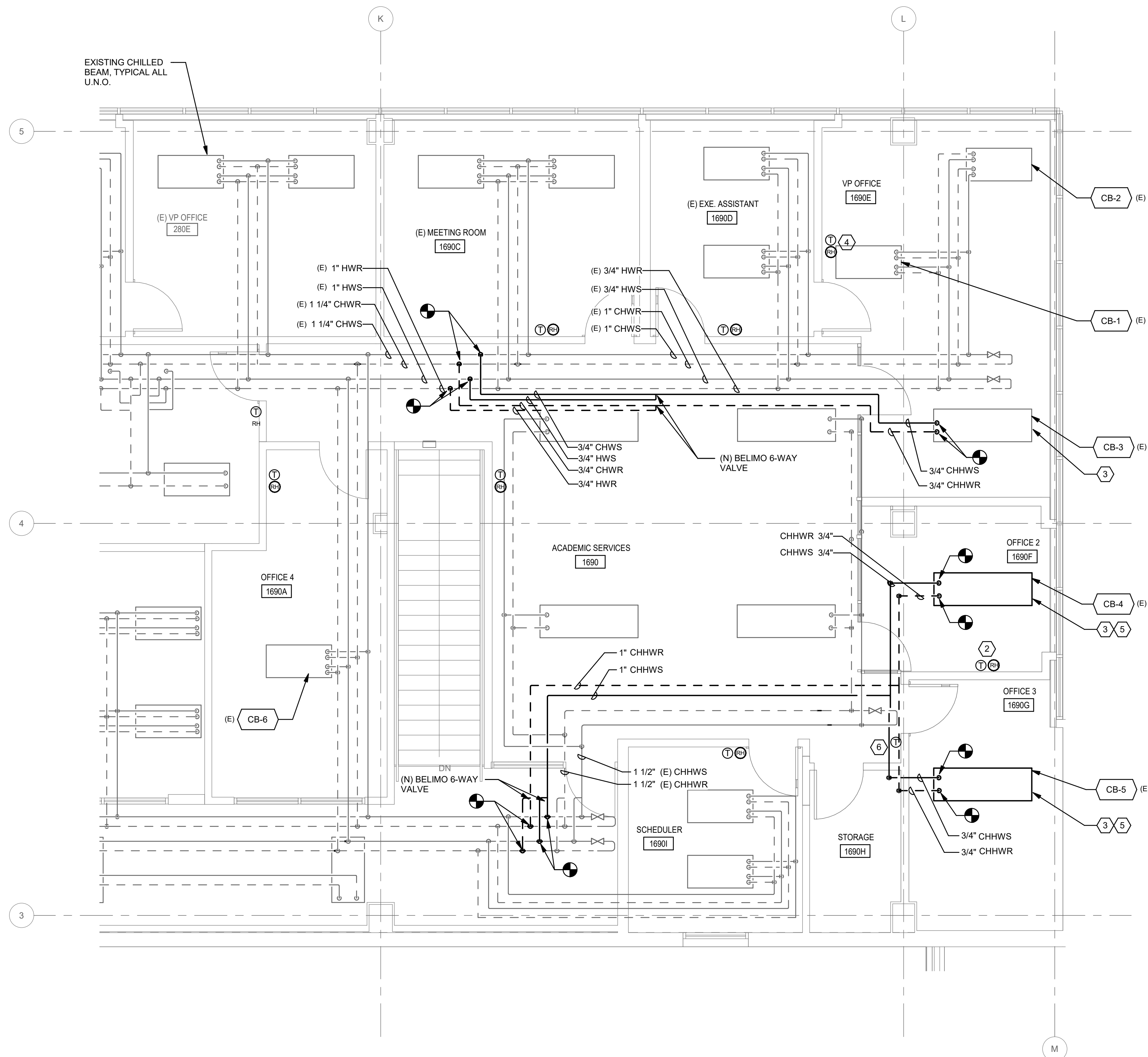
REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE:

SHEET KEYNOTES

- 1 POINT OF DISCONNECTION. CAP PIPING AT POINT OF DISCONNECTION
- 2 NEW TEMPERATURE SENSOR AND RELATIVE HUMIDITY SENSORS SERVING BOTH OFFICE 290F AND 290G. CONNECT TO THERMOSTAT AT KEYNOTE 6
- 3 CONNECT NEW PIPE TO CHILLED WATER COIL. CAP HOT WATER COIL PIPING. NEW PIPING TO BE INSULATED
- 4 EXISTING TEMPERATURE SENSOR AND RELATIVE HUMIDITY SENSOR TO SERVE ALL THREE CHILLED BEAMS IN VP OFFICE 290 E
- 5 EXISTING CHILLED BEAM TO BE RELOCATED
- 6 THERMOSTAT CONNECTED TO TEMPERATURE SENSOR AT KEYNOTE 2

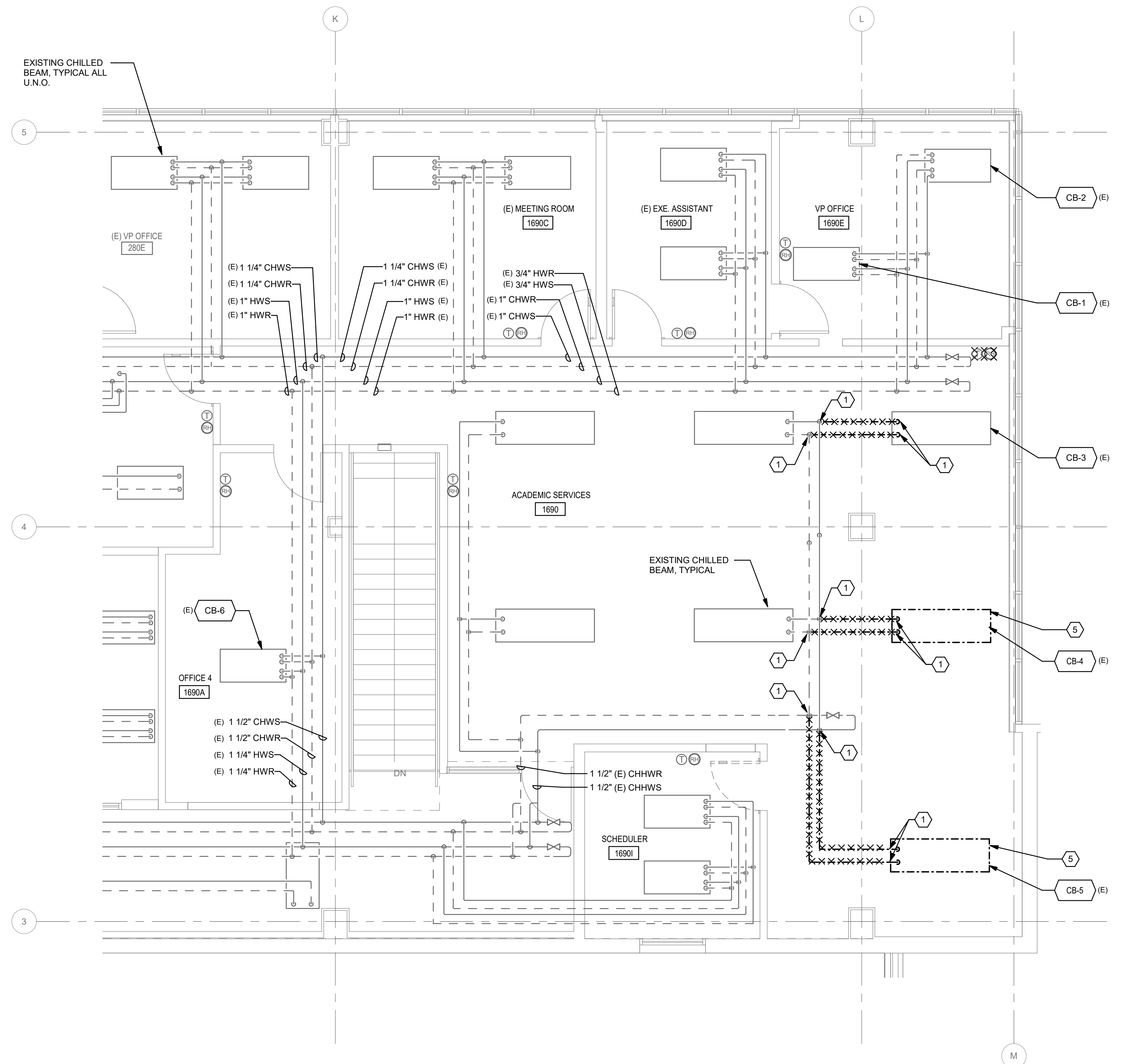
GENERAL SHEET NOTES

- A. ALL PIPE BRANCHES TO CHILLED BEAM ARE 3/4" UNLESS NOTED OTHERWISE
- B. HOT TAP ALL NEW PIPE CONNECTIONS TO EXISTING PIPING
- C. UPDATE BMS WITH GRAPHICS TO SHOW NEW ZONING WITH NEW ROOM NAMES



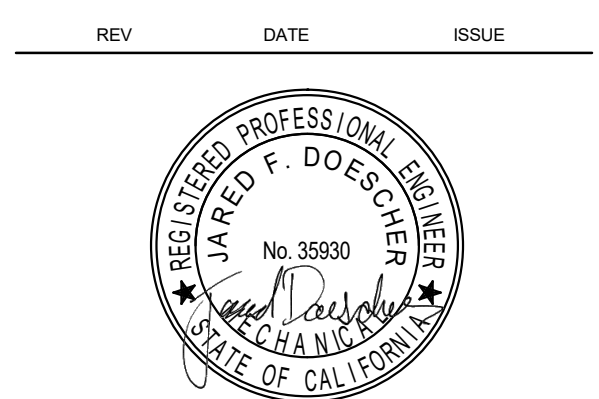
2 LEVEL 2 ADMIN SUITE TI MECHANICAL PIPING PLAN - ADMIN

0 4 8 16
 1/4" = 1'-0"



1 LEVEL 2 ADMIN SUITE TI - DEMO MECHANICAL PIPING PLAN - ADMIN

0 4 8 16
 1/4" = 1'-0"



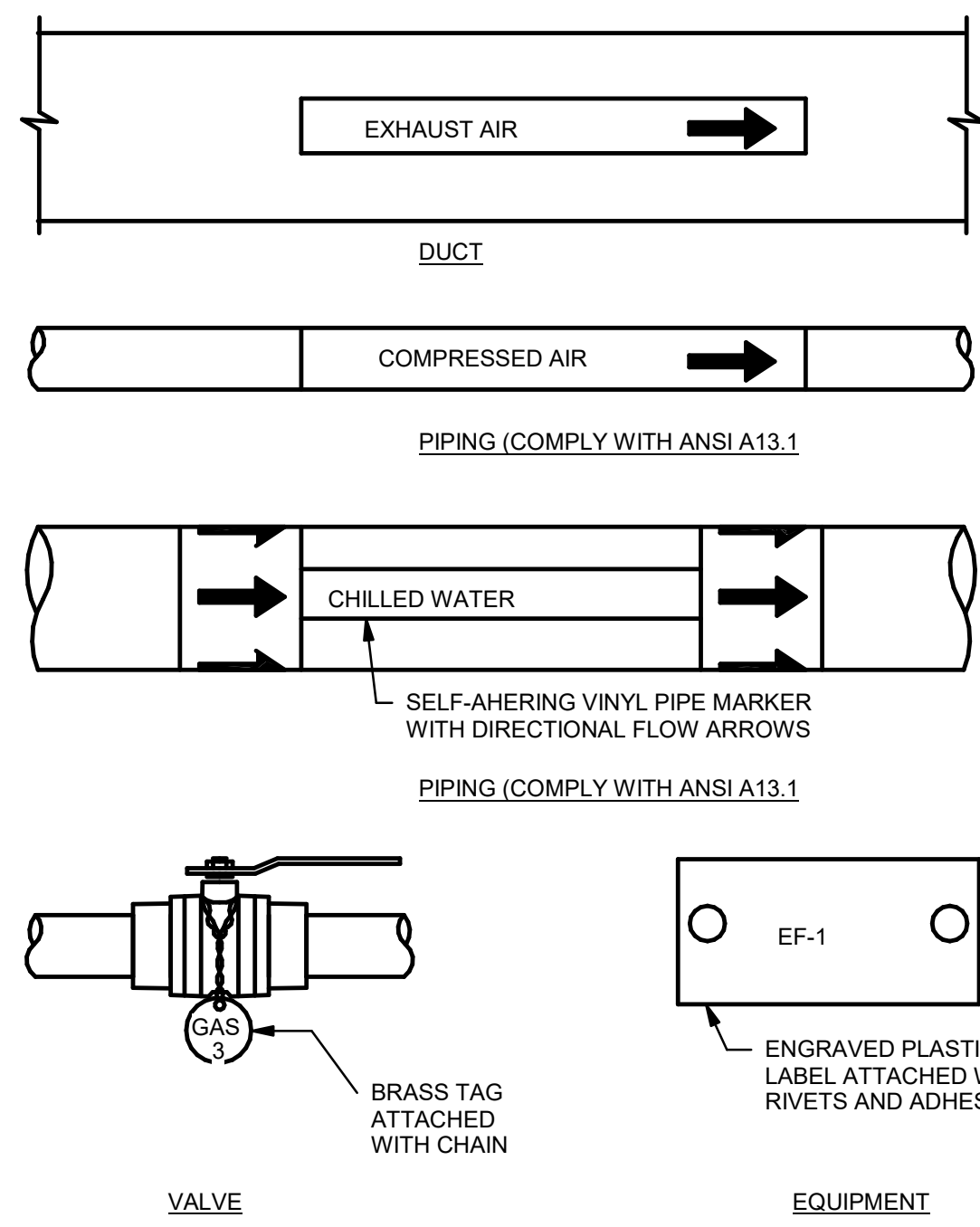
Administration Services Interior Improvements

Las Positas College
 3000 Campus Hill Dr.,
 Livermore, CA 94551

DSA File #: 1-C2
 DSA Application #: 01-118983

ENLARGED FLOOR PLAN -
 DEMO AND NEW WORK -
 MECHANICAL PIPING

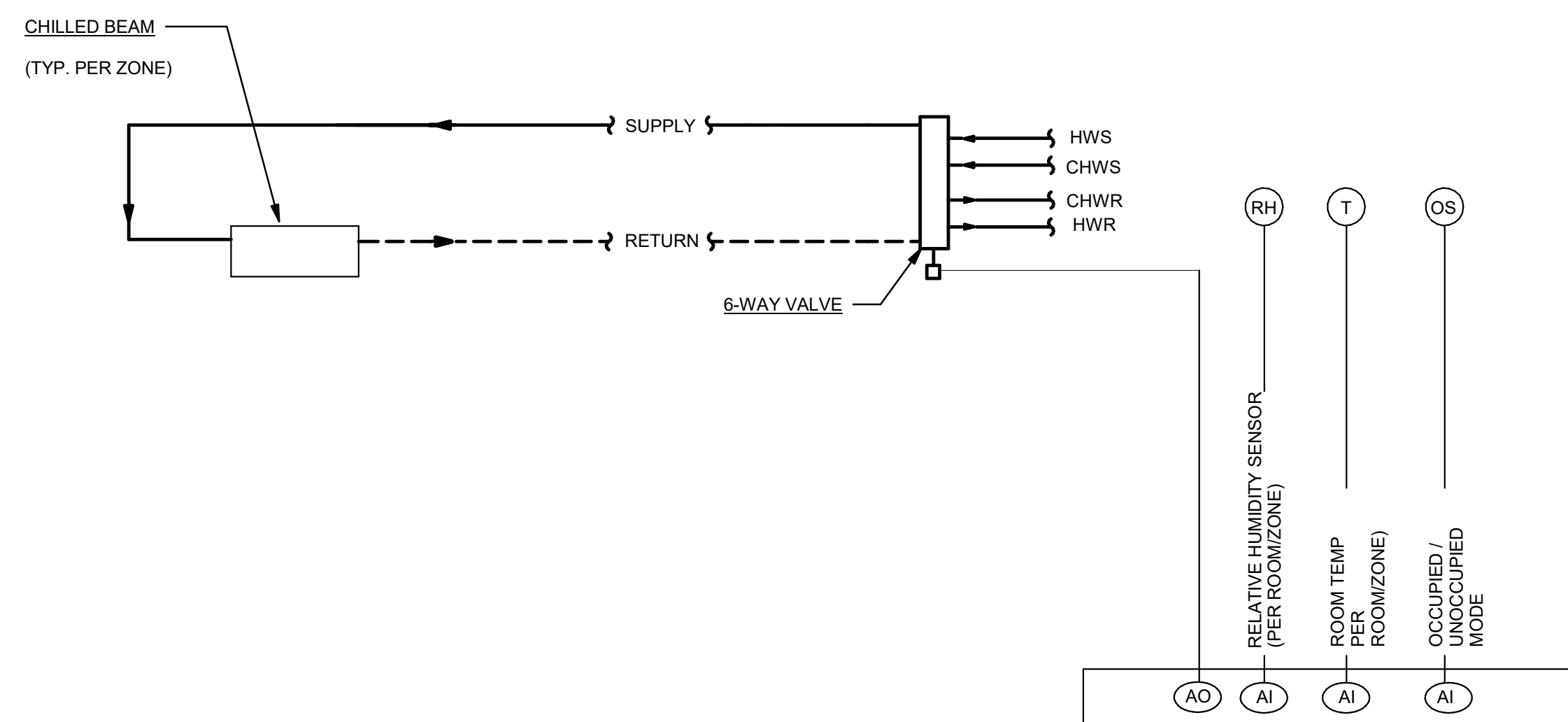
REFERENCE DRAWING:
 PROJECT #: 20057.100
 DATE: August 10, 2020
 SCALE: 1/4" = 1'-0"



- COORDINATE ALL TAGGING AND NAMING CONVENTIONS WITH FACILITY MAINTENANCE PERSONNEL.
- FOR SMALLER EQUIPMENT CONTROL VALVES AND SHUT-OFF VALVES PROVIDE BRASS TAGS INDICATING THEIR FUNCTION AND THE NORMALLY OPEN AND CLOSED POSITIONS.
- TAG BALANCING VALVES AND MAJOR DAMPERS WITH WALSLED GPM OR CFM.
- PROVIDE VALVE TAG CHART PER KAISER DIVISION 23 STANDARDS.

3 IDENTIFICATIONS

NO SCALE



- NOTES:**
- SEE FLOOR PLAN FOR QUANTITY OF THERMOSTATS AND SENSORS

SEQUENCE OF OPERATION:

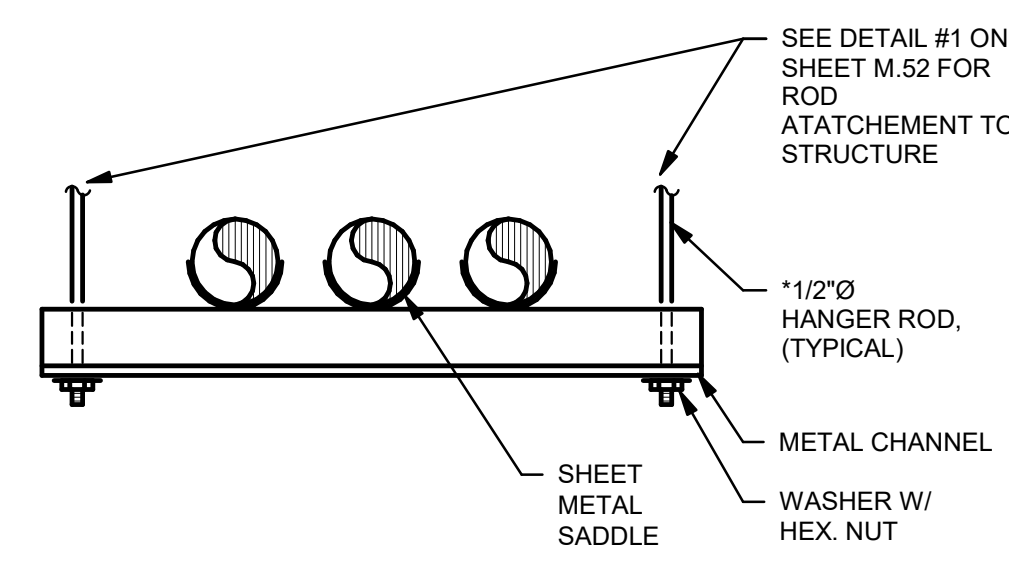
- OCCUPIED MODE:** MODULATE 6-WAY CONTROL VALVE BETWEEN HEATING AND COOLING AT CHILLED BEAMS TO MAINTAIN OCCUPIED SETPOINT (70 DEG. F HEATING; 74 DEG F COOLING; 50% RH, ADJ.). IF OCCUPANCY SENSOR HAS REGISTERED ALL SPACES WITHIN ZONE AS UNOCCUPIED DURING BUILDING OCCUPIED HOURS, ENABLE UNOCCUPIED MODE TEMPERATURE SET POINT AT THE ZONE +/- 2 DEG F, ADJ, MAINTAIN BUILDING AIR DISTRIBUTION. DISABLE SET BACK IF ANY ZONE OCCUPANCY SENSOR REGISTERS OCCUPIED.

UNOCCUPIED MODE: SYSTEM TO FOLLOW EXISTING BUILDING UNOCCUPIED MODE SET POINTS AND AIR DISTRIBUTION. COORDINATE ON SITE PRIOR TO SENSOR INSTALLATION.

ALARM: SEND AN ALARM IF ANY ZONE EXCEEDS DEWPOINT ALARM SETPOINT TO AVOID CONDENSATION AT THE CHILLED BEAMS

4 CHILLED BEAM CONTROL DIAGRAM

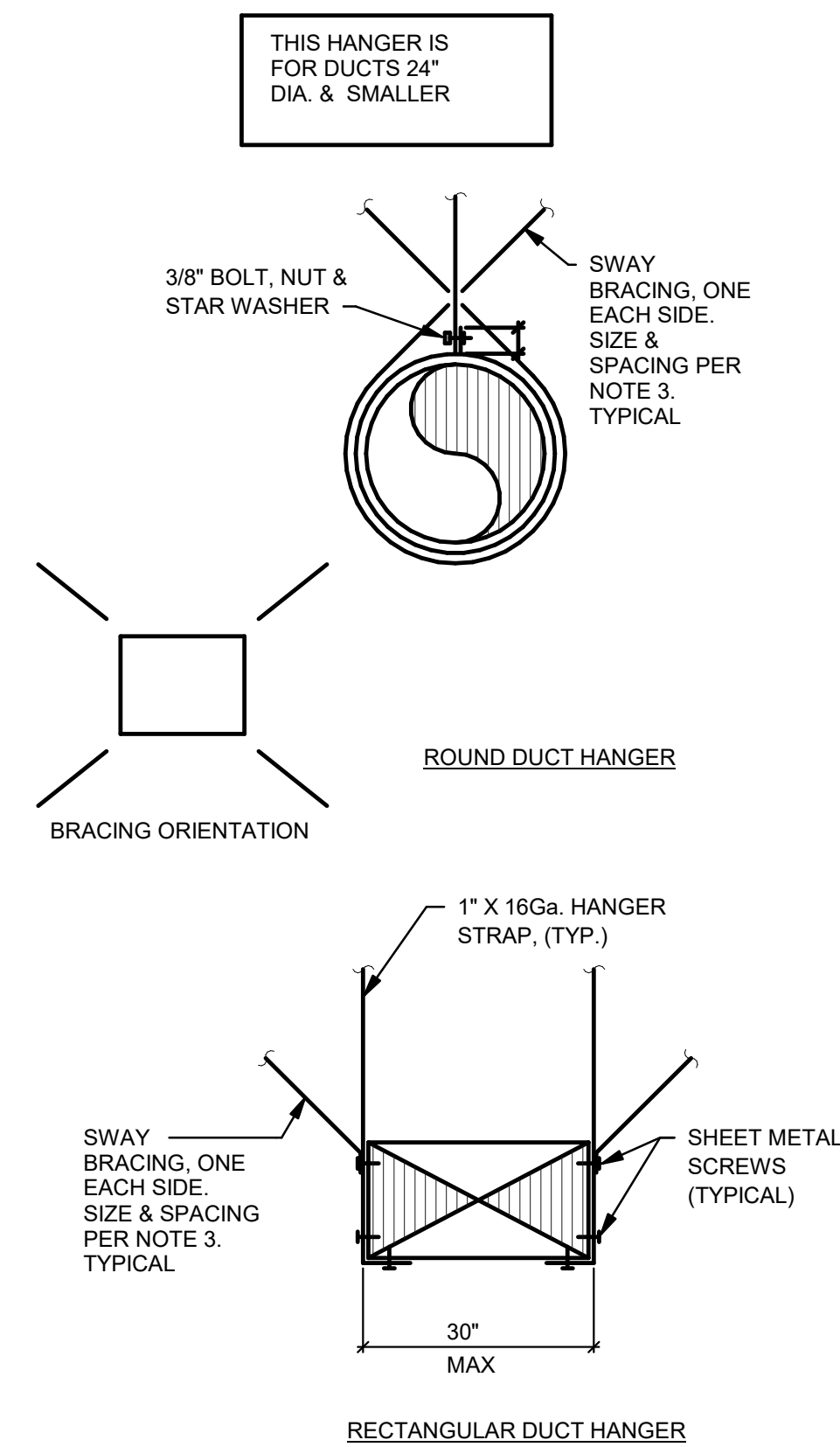
NO SCALE



- NOTES:**
- PROVIDE DIAGONAL BRACING 20'-0" MAX & EVERY CHANGE IN DIRECTION.
 - PROVIDE LONGITUDINAL BRACING AT 40'-0" O.C. MAX.

6 PIPE HANGER DETAIL

NO SCALE

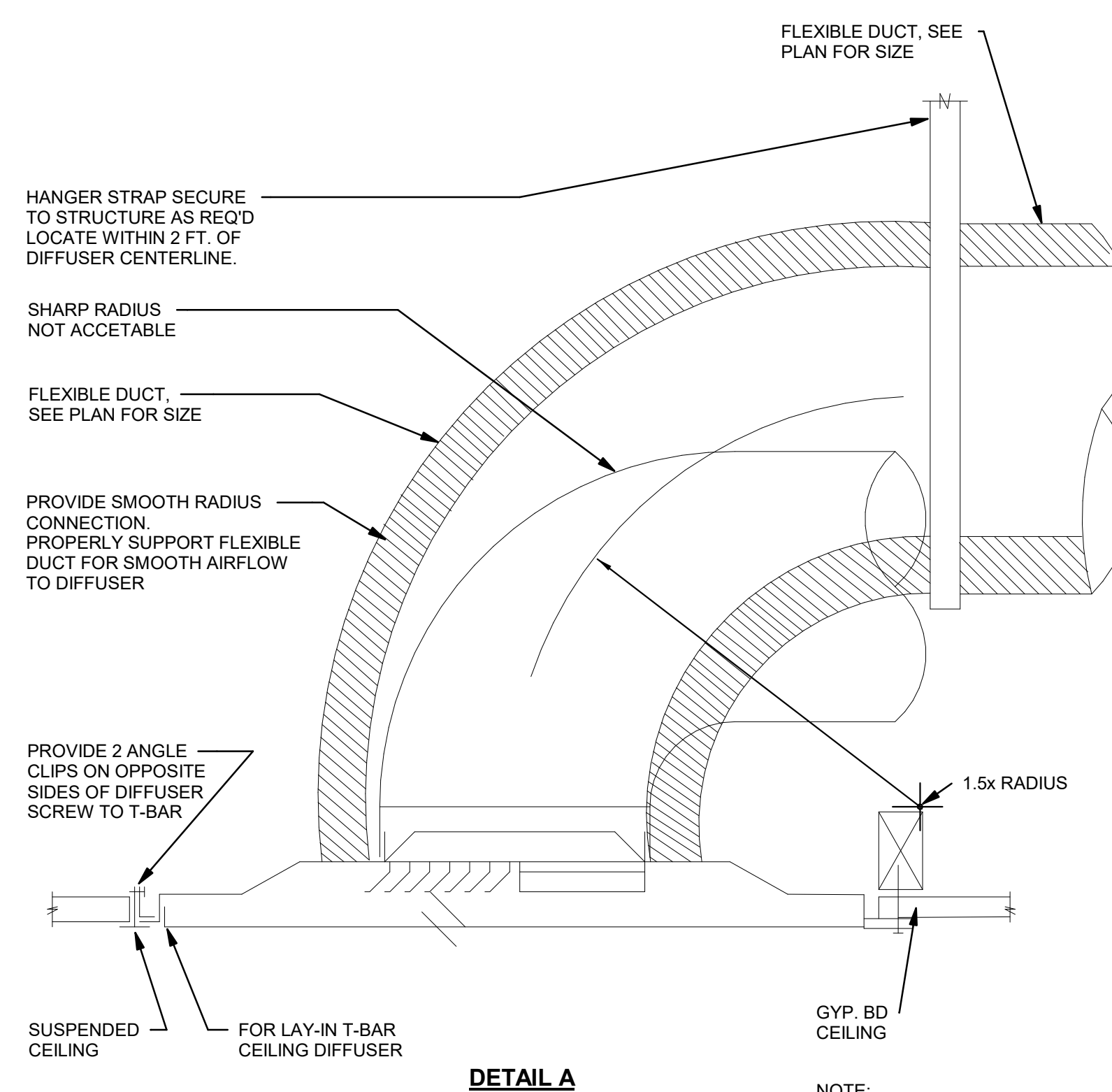


RECTANGULAR DUCT HANGER

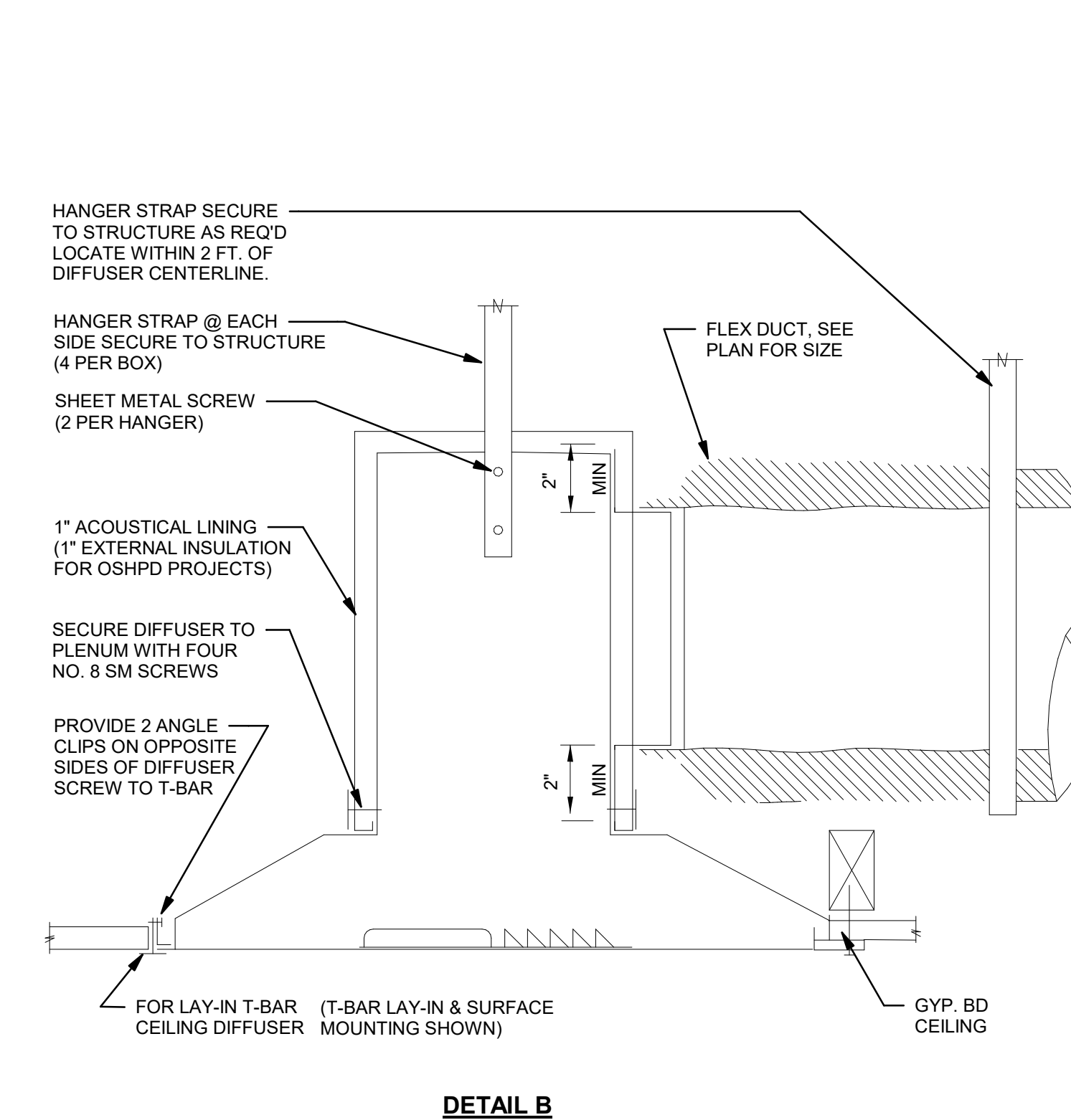
- NOTES:**
- REFER TO SPECIFICATIONS FOR HANGER SPACINGS.
 - ATTACHMENTS TO OVERHEAD STRUCTURE SHALL BE MADE IN ACCORDANCE WITH STRUCTURAL ENGINEERS REQUIREMENTS AND WEIGHT LIMITATIONS. ALL ATTACHMENT METHODS TO STRUCTURE SHALL BE SUBMITTED TO ARCHITECT AND STRUCTURAL ENGINEER FOR REVIEW.
 - PROVIDE SWAY & SEISMIC BRACING PER THE LATEST EDITION OF CALIFORNIA BUILDING CODE. INDICATE LOCATIONS OF SEISMIC BRACING ON THE SHOP DRAWING SUBMITTALS.
 - HANGER MATERIAL SUPPORTING FLEXIBLE DUCT SHALL IN NO CASE BE LESS THAN 1 1/2 INCHES WIDE. FLEXIBLE DUCT SHALL BE SUPPORTED PER MANUFACTURER'S RECOMMENDED MATERIALS, BUT AT NO GREATER DISTANCE THAN 4 FEET MAX. PERMISSIBLE SAG IS MAX. 1/2 INCHES PER FOOT OF SPACING BETWEEN SUPPORTS.

2 DUCT SUPPORT DETAIL

NO SCALE



DETAIL A

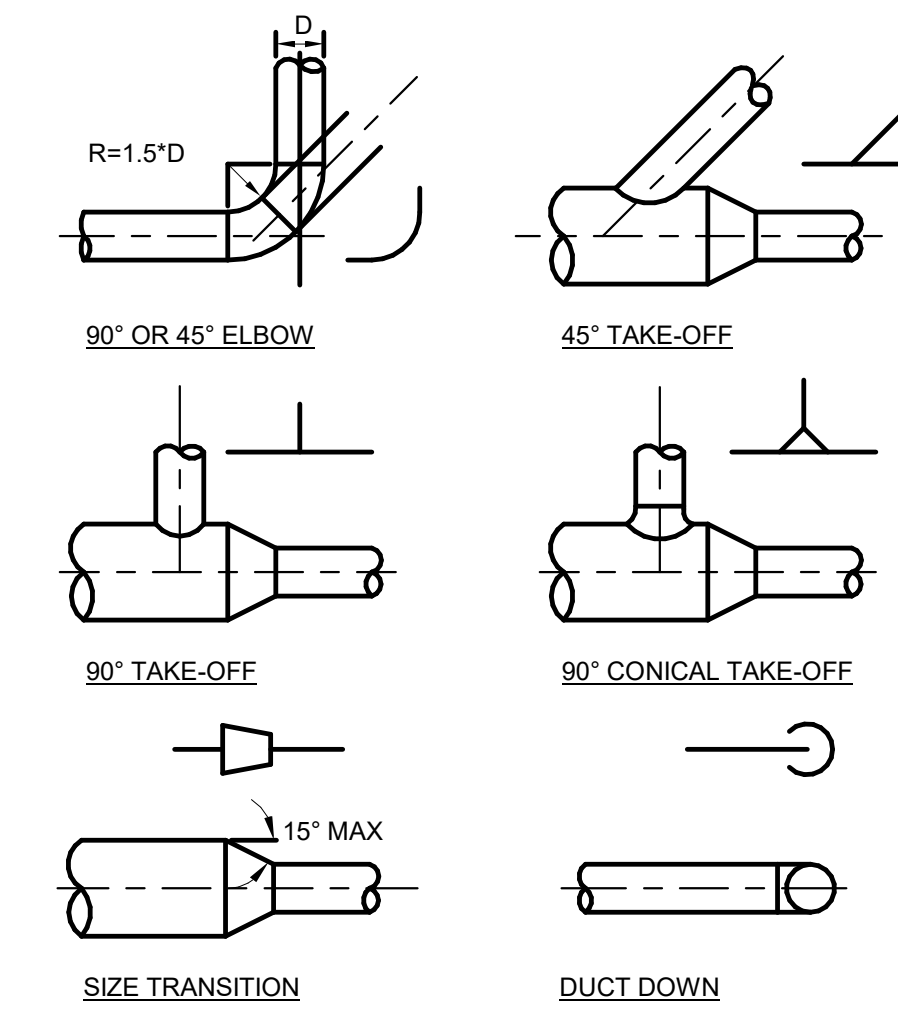


DETAIL B

- NOTE:**
- USE DETAIL A FOR ALL DIFFUSERS AND GRILLES.
 - DETAIL B MAY BE USED WHEN THERE IS INADEQUATE SPACE FOR A FULL RADIUS ELBOW.
 - LINING OF AIR ROOT ABOVE DIFFUSER MAY BE OMITTED FOR RETURN OR EXHAUST APPLICATION.
 - PROVIDE BALANCING DAMPER UPSTREAM OF FLEXIBLE DUCT.

5 DIFF CEILING SUPPLY, RETURN, & EXHAUST CONNECTION - 1

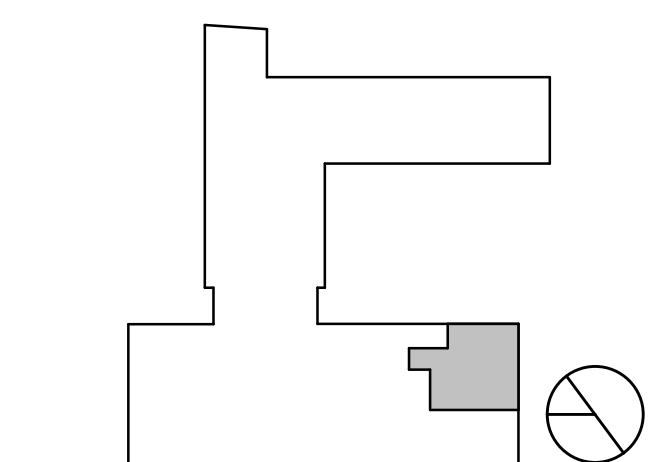
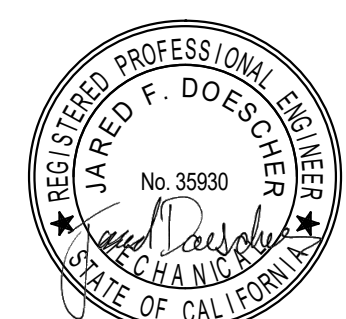
NO SCALE



- NOTES:**
- SINGLE-LINE ILLUSTRATIONS ARE SYMBOLS USED ON DRAWINGS. PROVIDE ACCESS PANELS AT EVERY 50'-0" OF STRAIGHT DUCT AND UPSTREAM OF EACH ELBOW.

1 ROUND DUCT DETAIL

NO SCALE



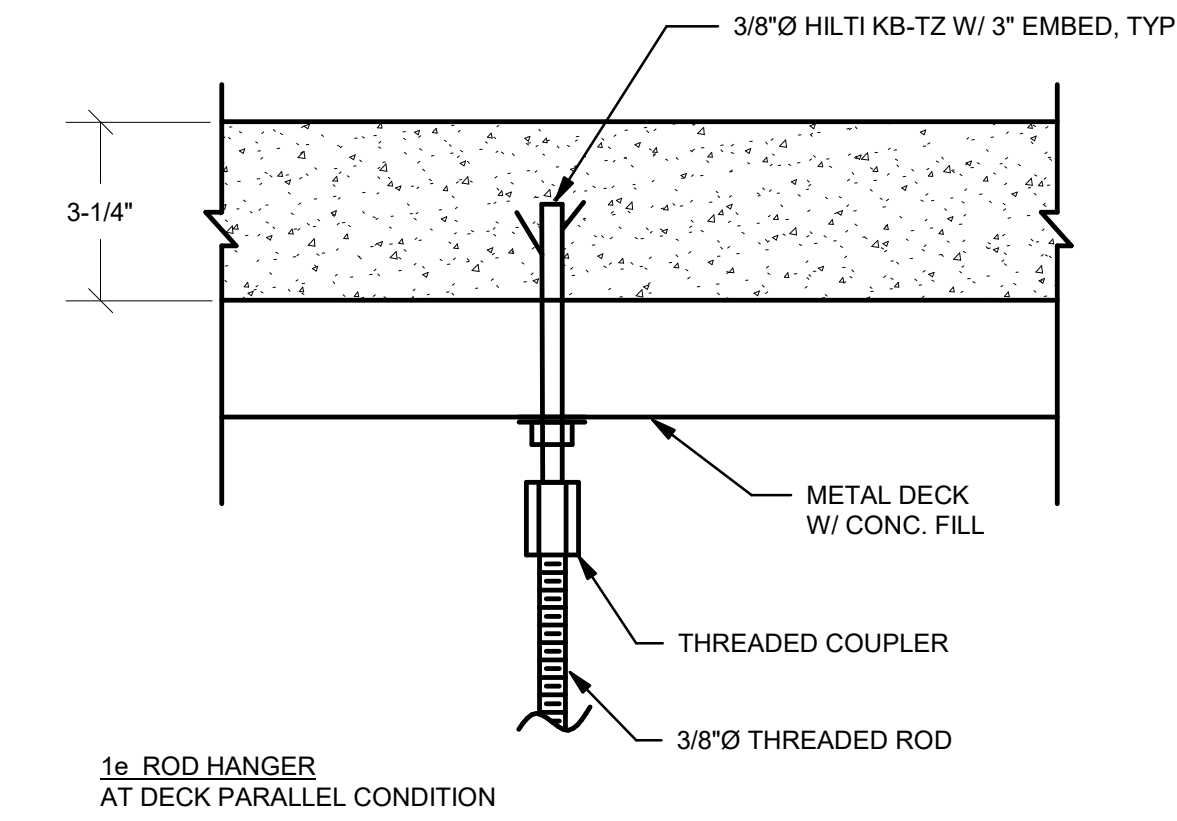
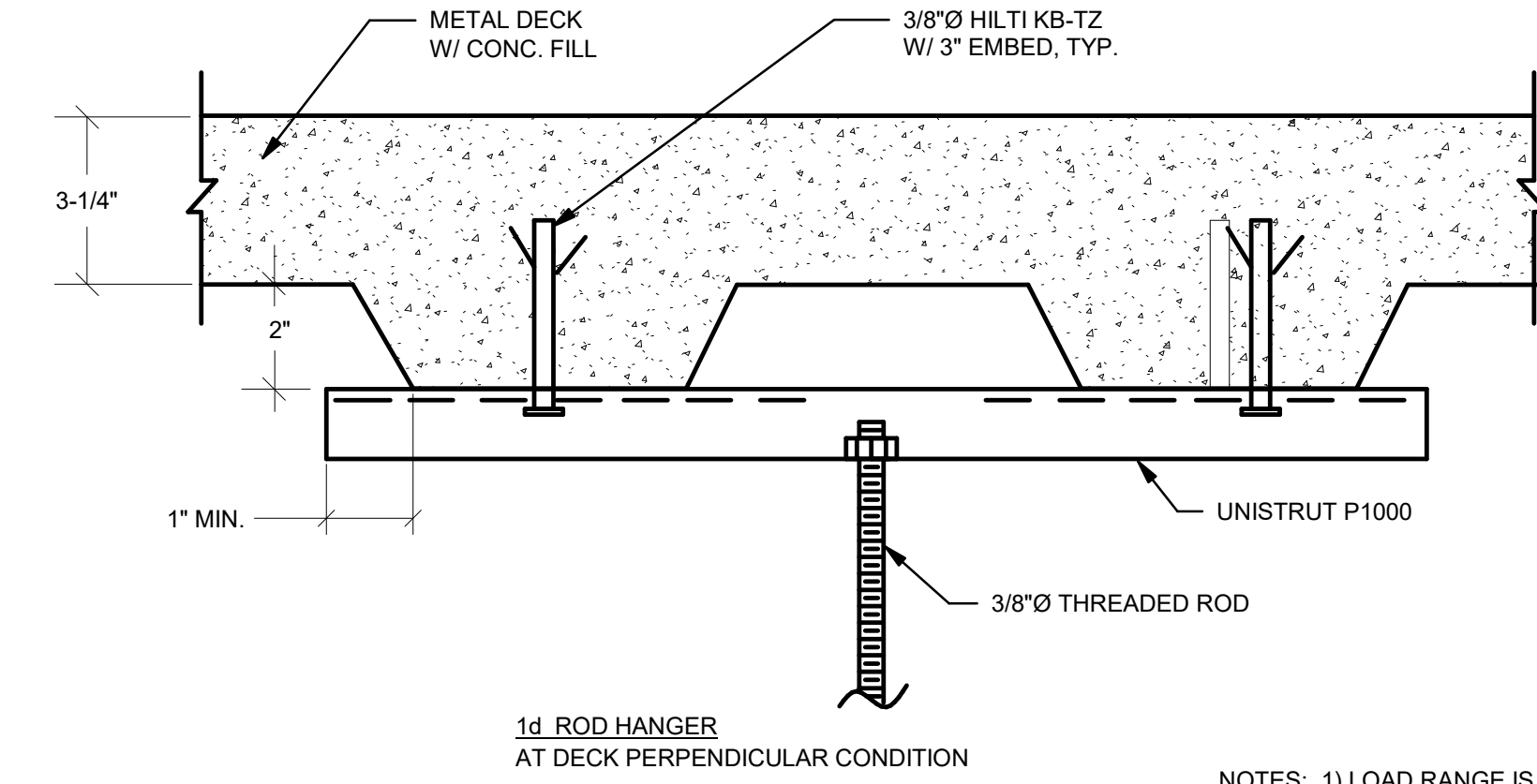
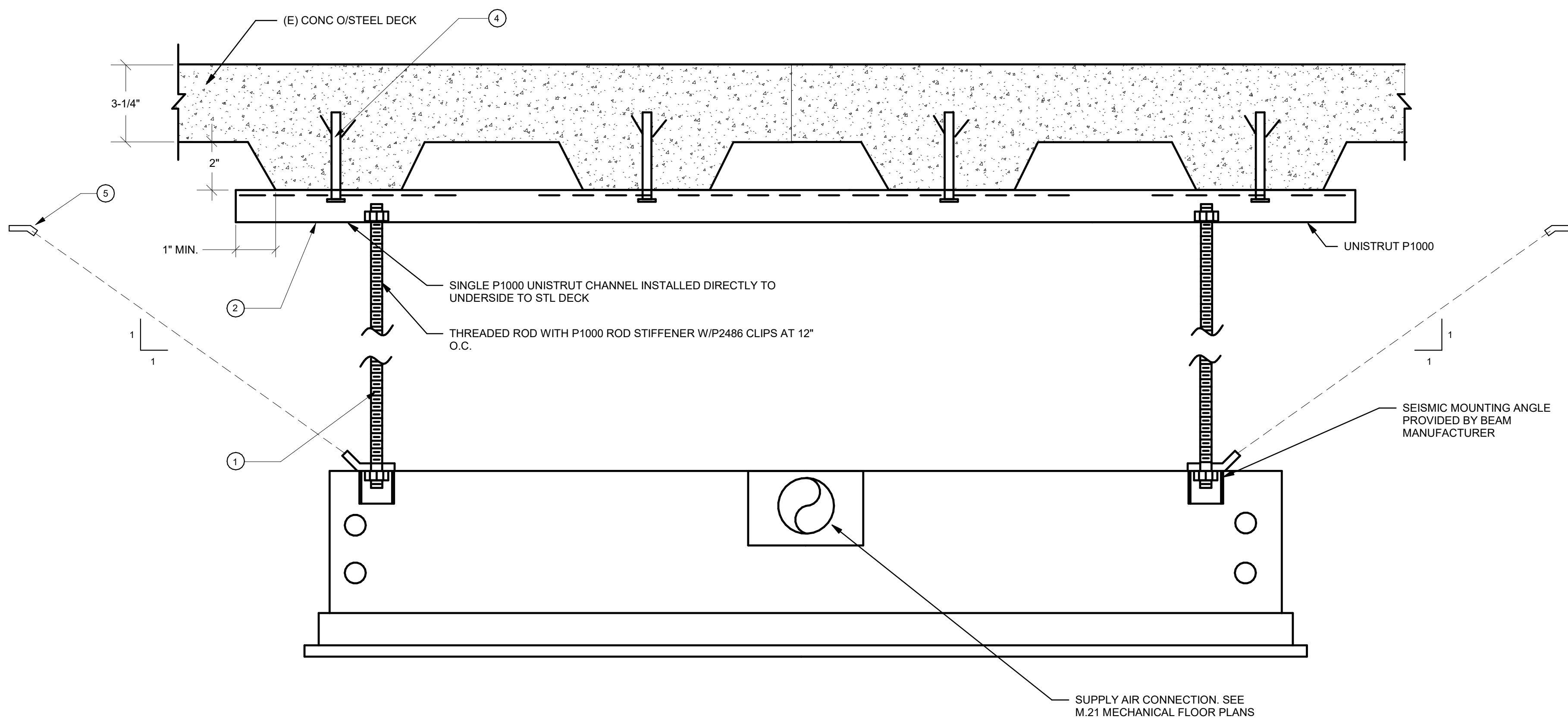
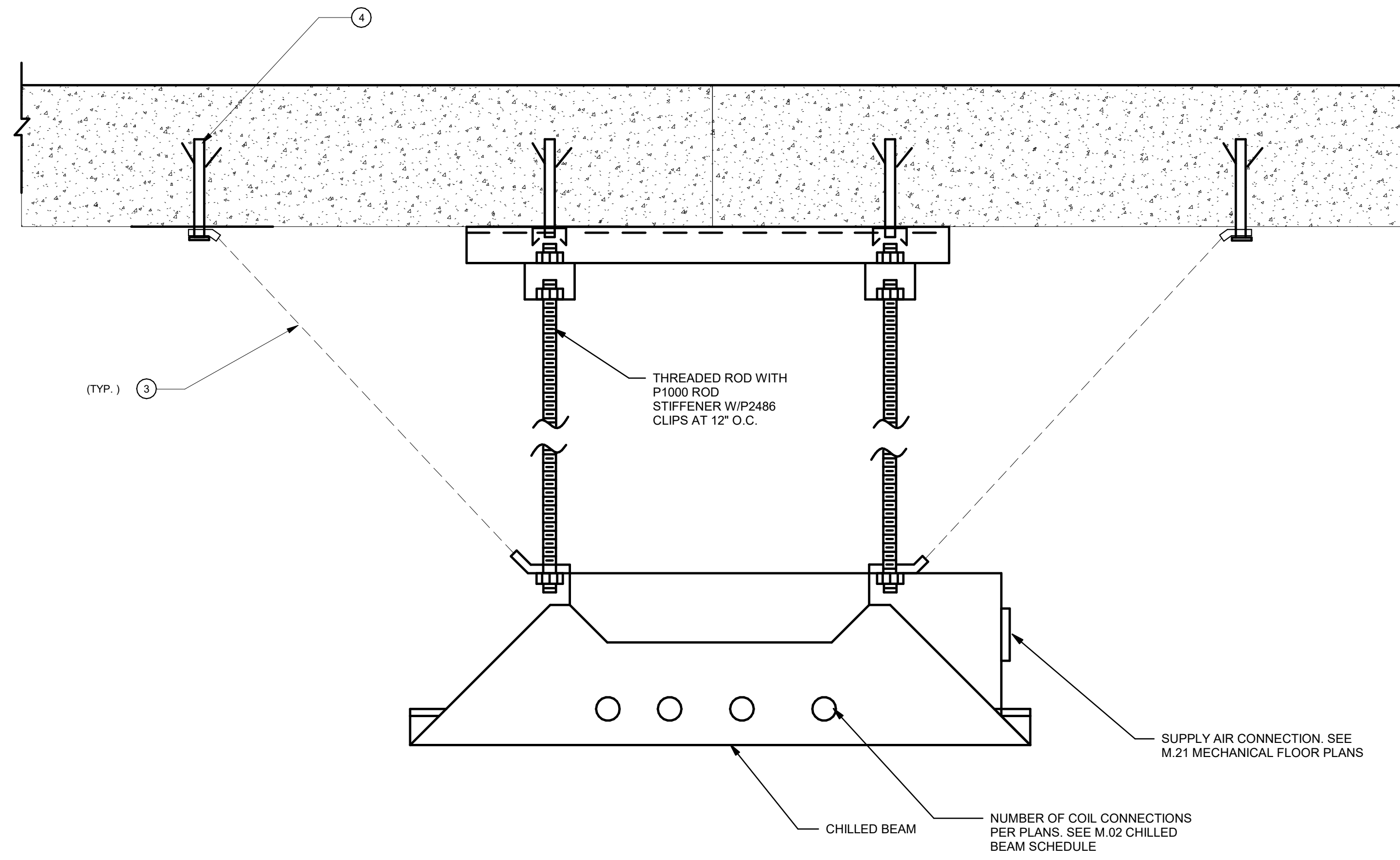
Administration Services Interior Improvements

Las Positas College
3000 Campus Hill Dr.,
Livermore, CA 94551

DSA File #: 1-C2
DSA Application #: 01-118983

DETAILS & CONTROL
DIAGRAMS - MECHANICAL

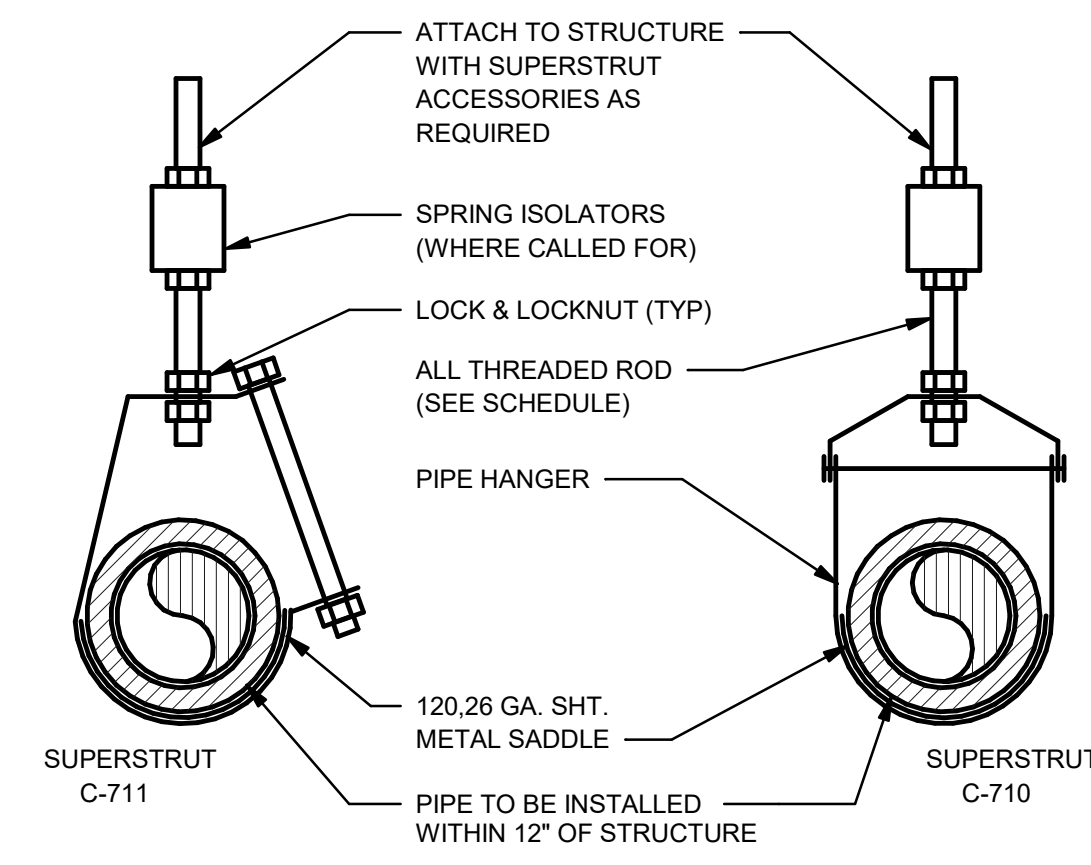
REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE: NO SCALE



- NOTES: 1) LOAD RANGE IS 25 TO 200 LBS.
 2) MAX. ROD SIZE: 7/8"
 3) DEFLECTION = 0.20"
 4) 1D ROD HANGER ALTERNATE
 1. INSTALL PER THE REQUIREMENTS OF TOLCO 108A IOM FOR PIPING.

1 ROD HANGER DETAIL

NO SCALE



PIPE SIZE (IN)	MAX SUPPORT SPAN (FT)	MIN. ROD SIZE (IN)
UP TO 1"	7	3/8"
1-1/2"	9	3/8"
2 TO 2-1/2"	10	3/8"
3"	12	1/2"
3-1/2"	13	1/2"
4	14	5/8"
5	16	5/8"
6	17	3/4"
8	19	7/8"
10	22	7/8"
12	23	7/8"

2 SINGLE PIPE SUPPORT DETAIL

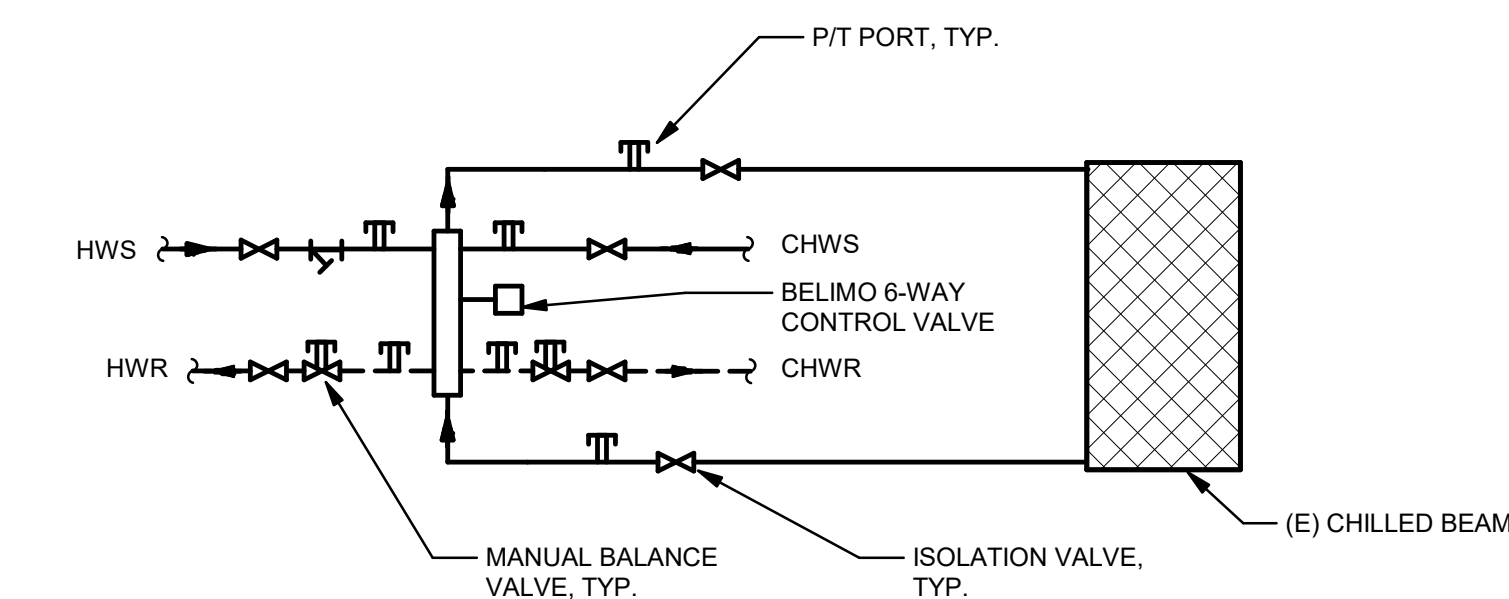
NO SCALE

NOTES:

- ① (N) (4) 1/2" DIA THREADED ROD W/ P1000 ROD STIFFENER W/ P2486 CLIPS AT 12" O.C.
- ② (N) P1000 UNISTRUT CHANNEL
- ③ (N) 3/16" DIA 7X19 AIRCRAFT CABLE W/ (2) CABLE CLIPS
- ④ (N) 3/8" DIA HILTI KWIK BOLT TZ EXPANSION ANCHORS W/ 3" MIN EMBED. CENTER ON DECK FLUTE
- ⑤ (N) P1843 CLIP TOP AND BOTTOM

3 CHILLED BEAM MOUNTING DETAIL

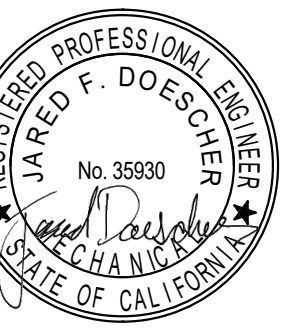
NO SCALE



4 CHILLED BEAM 6-WAY VALVE PIPE TRIM DETAIL

NO SCALE

REV DATE ISSUE



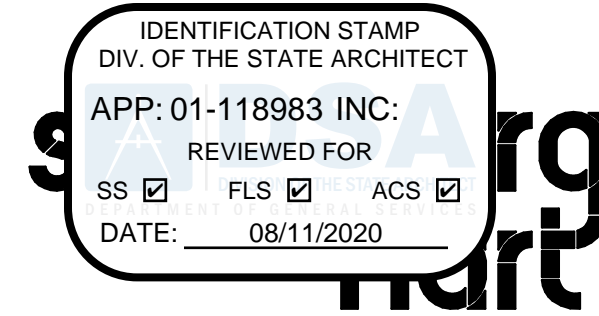
Administration Services Interior Improvements

Las Positas College
 3000 Campus Hill Dr.,
 Livermore, CA 94551

DSA File #: 1-C2
 DSA Application #: 01-118983

DETAILS - MECHANICAL

REFERENCE DRAWING:
 PROJECT #: 20057.100
 DATE: August 10, 2020
 SCALE: NO SCALE



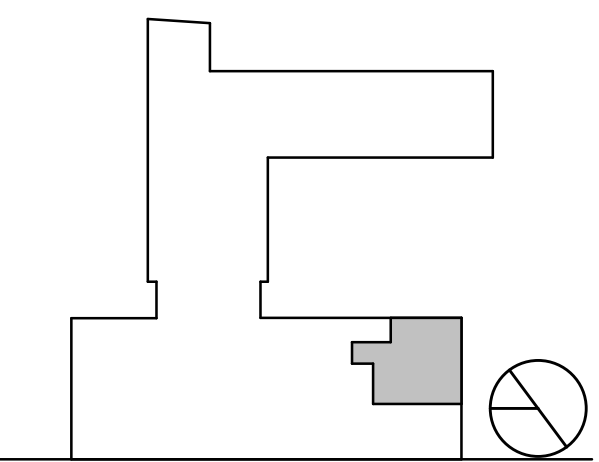
CLIENT: Chabot Las-Positas Community College District 5020 Franklin Dr. Pleasanton, CA 94588

ARCHITECT: Steinberg Architects 60 Pierce Avenue San Jose, CA 95110



PROJECT: 2020-0197 CONTACT: Ruby Hulla 135 Main Street, Suite 400 San Francisco, CA 94105 TEL: 415-489-7240 www.interfaceengineering.com

REV DATE ISSUE



Administration Services Interior Improvements Las Positas College 3000 Campus Hill Dr., Livermore, CA 94551

DSA File #: 1-C2 DSA Application #: 01-118983

TITLE 24 COMPLIANCE FORMS - ELECTRICAL

REFERENCE DRAWING: PROJECT #: 20057.100 DATE: August 10, 2020 SCALE:

E0.02

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify the following under penalty of perjury, under the laws of the State of California:

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

H. INDOOR LIGHTING CONTROLS (Not including PAFs) NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.

Table with 6 columns: 01, 02, 03, 04, 05, 06. Rows include Area Description, Office >= 250 sqft, Office <= 250 sqft, Storage, and TOTALS.

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF)) This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ALTERATIONS This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF) This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION Selections have been made based on information provided in this document.

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

A. GENERAL INFORMATION 01 Project Location (city): Livermore 02 Climate Zone: 12 03 Occupancy Types Within Project (select all that apply): Office

B. PROJECT SCOPE This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §150.6 or §151.0(b)2 for alterations.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

C. COMPLIANCE RESULTS If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D, for guidance.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE This table includes all permanent designed lighting and all portable lighting in offices.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

STATE OF CALIFORNIA Indoor Lighting CALIFORNIA ENERGY COMMISSION NRCC-LTI-E CERTIFICATE OF COMPLIANCE

F. INDOOR LIGHTING FIXTURE SCHEDULE FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per §140.6(a)(8) is adjusted to be 75% of their rated wattage.

G. MODULAR LIGHTING SYSTEMS This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs) This table includes lighting controls for conditioned and unconditioned spaces.

Table with 12 columns: 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12. Rows include Area Level Controls and Area Level Controls.

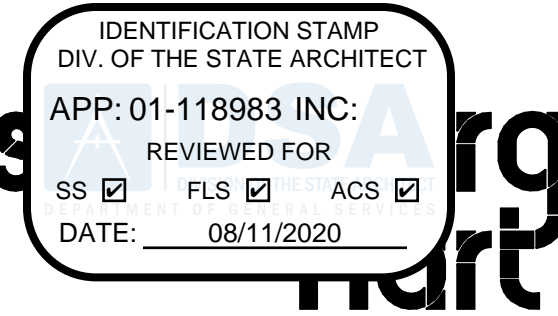
Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance

GENERAL SHEET NOTES

- DEMOLITION OF LUMINAIRES, LIGHTING CONTROLS, AND ELECTRICAL DEVICES SHALL BE COORDINATED WITH ARCHITECT PRIOR TO COMMENCEMENT.
- EXISTING LIGHTING BRANCH CIRCUITS TO BE DISCONNECTED AND REMOVED UP TO CEILING JUNCTION BOX FOR RE-USE. SEE NEW PLAN FOR NEW WORK.
- EXISTING LUMINAIRES AND LIGHTING CONTROLS NOT SHOWN AND OUT OF PROJECT BOUNDARY ARE TO REMAIN OPERATIONAL UNLESS OTHERWISE NOTED.
- COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF LUMINAIRES AND LIGHTING CONTROLS WITH ARCHITECT PRIOR TO INSTALLATION.
- CIRCUIT NUMBERS SHOWN ARE BASED ON RECORD DRAWINGS. FIELD VERIFY IF CIRCUITS ARE AVAILABLE AND HAVE ADEQUATE CAPACITY FOR LOADS BEING ADDED PRIOR TO COMMENCEMENT OF WORK.

SHEET KEYNOTES

- INTERCEPT AND EXTEND EXISTING CIRCUIT LPH-LIGHT 82-9' FROM JUNCTION BOXES LEFT IN PLACE DURING DEMOLITION PHASE TO NEW LUMINAIRES AND ASSOCIATED LIGHTING CONTROLS.

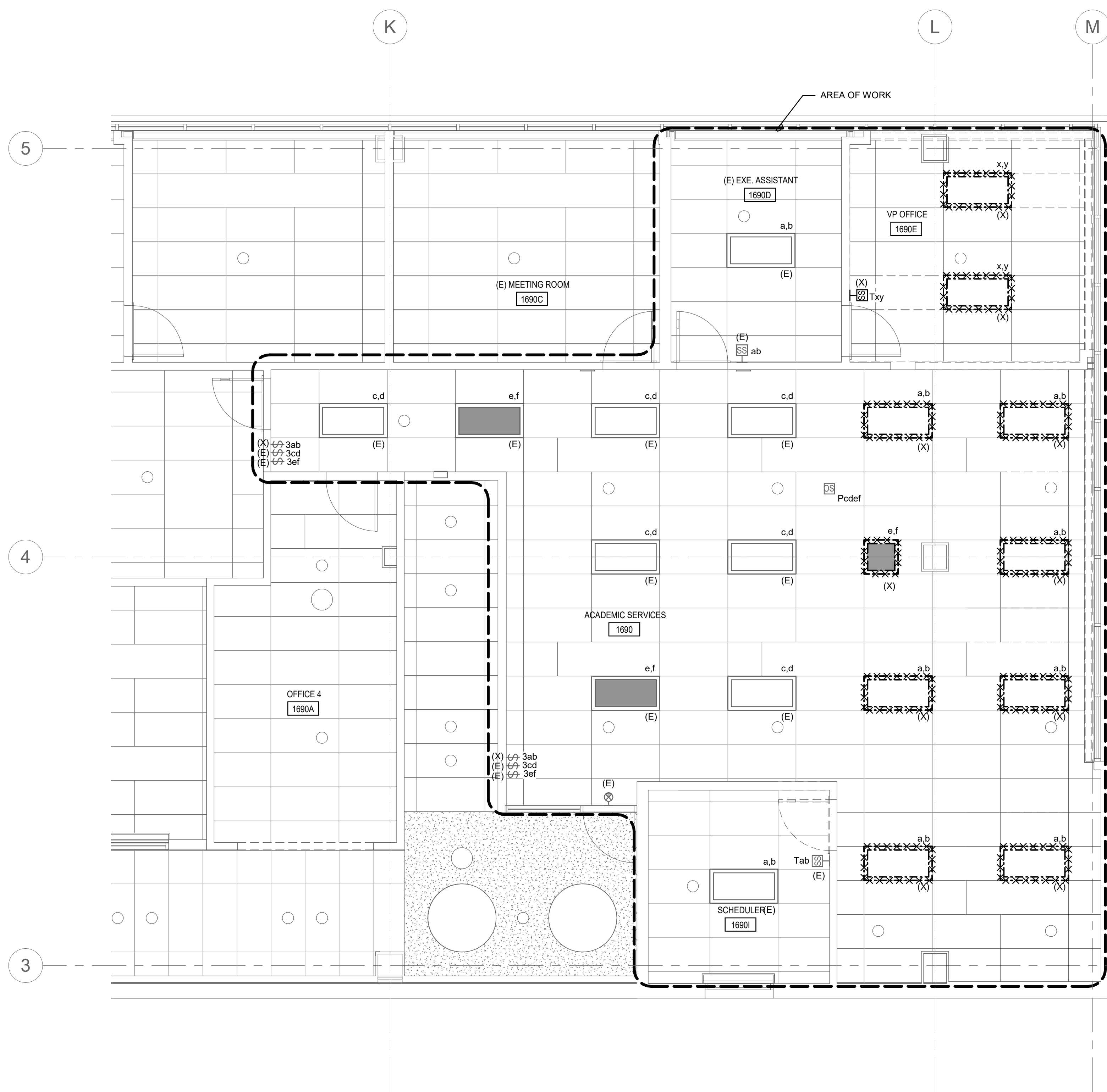


CLIENT
Chabot Las-Positas Community College District
5020 Franklin Dr.
Pleasanton, CA 94588

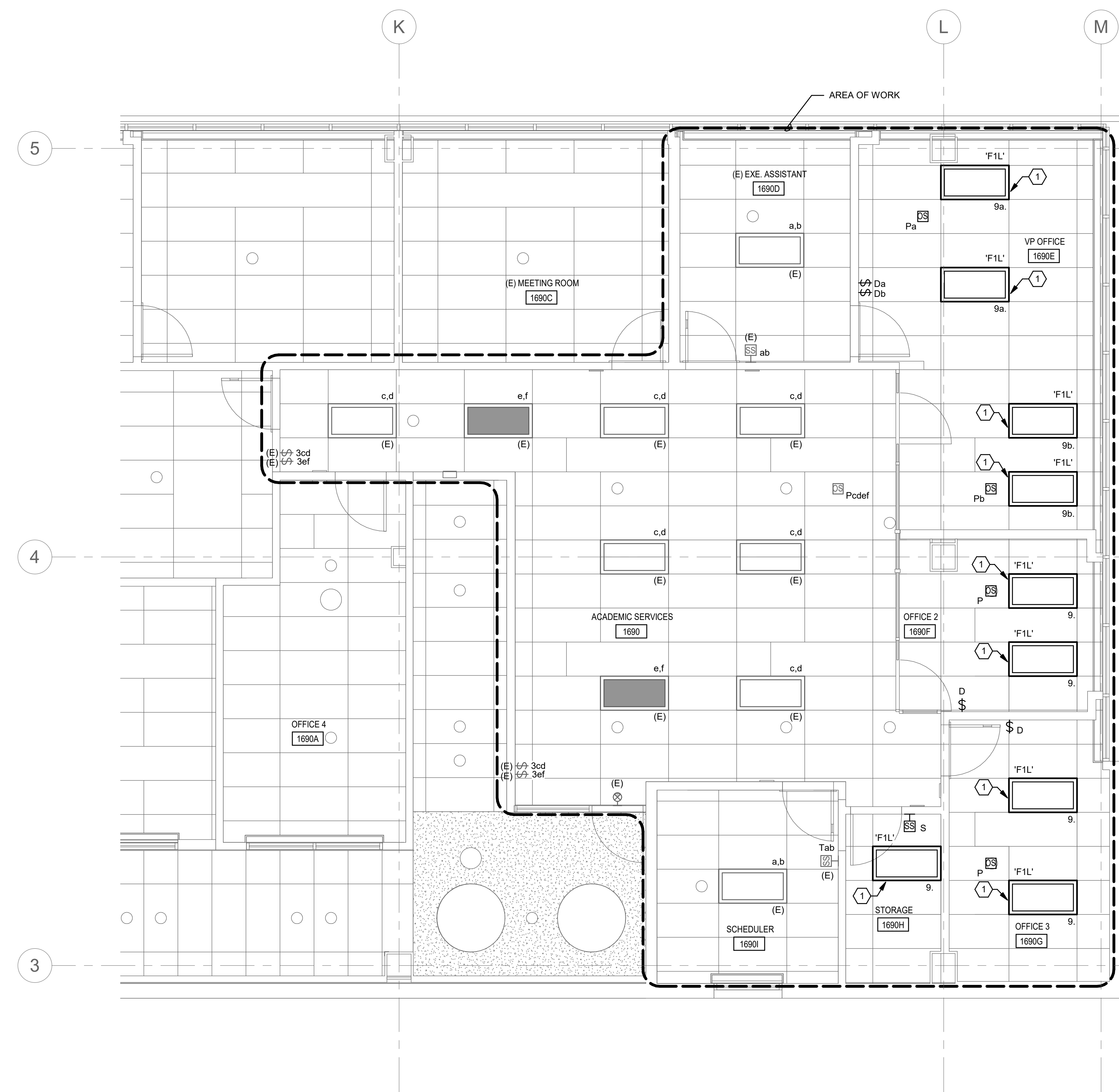
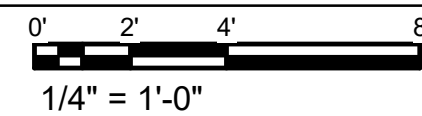
ARCHITECT
Steinberg Architects
60 Pierce Avenue
San Jose, CA 95110



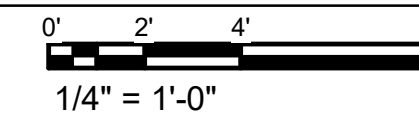
PROJECT: 2020-0197
CONTACT: Ruby Hubila
135 Main Street, Suite 400
San Francisco, CA 94105
TEL: 415-489-7240
www.interfaceengineering.com



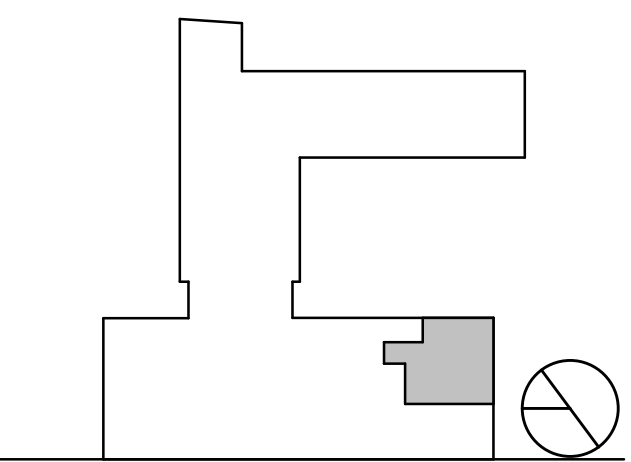
1 LEVEL 2 ADMIN SUITE TI DEMO PLAN - LIGHTING



2 LEVEL 2 ADMIN SUITE TI PLAN - LIGHTING



REV DATE ISSUE



Administration Services Interior Improvements

Las Positas College
3000 Campus Hill Dr.,
Livermore, CA 94551

DSA File #: 1-C2
DSA Application #: 01-118983

ENLARGED FLOOR PLAN - LIGHTING

REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE: 1/4" = 1'-0"

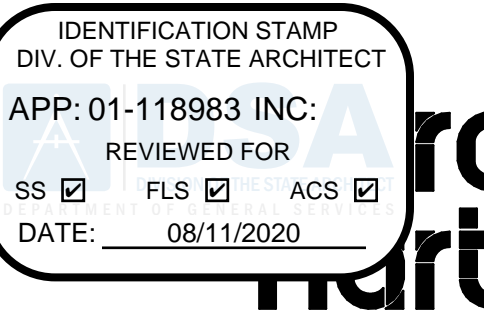
E2.01

GENERAL SHEET NOTES

- A. DEMOLITION OF RECEPTACLES, ELECTRICAL DEVICES, AND HVAC UNITS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO COMMENCEMENT.
- B. DEMOLISHED POWER BRANCH CIRCUITS TO BE DISCONNECTED AND REMOVED UP TO CEILING JUNCTION BOX FOR RE-USE. SEE NEW PLANS FOR NEW WORK.
- C. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES AND ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- D. CIRCUIT NUMBERS SHOWN ARE BASED ON RECORD DRAWINGS. FIELD VERIFY IF CIRCUITS ARE AVAILABLE AND HAVE ADEQUATE CAPACITY FOR LOADS BEING ADDED. PRIOR TO COMMENCEMENT OF WORK.
- E. ALL CIRCUITS SHOWN ARE CONNECTED TO PANEL "LP-F2" UNLESS OTHERWISE NOTED.

SHEET KEYNOTES

- 1. INTERCEPT AND EXTEND EXISTING CIRCUIT FROM JUNCTION BOXES LEFT IN PLACE DURING DEMOLITION PHASE TO NEW RECEPTACLES AS SHOWN.
- 2. CONNECT NEW FLUSH FLOOR RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT COMPLETE AS REQUIRED TO PLACE INTO SERVICE.

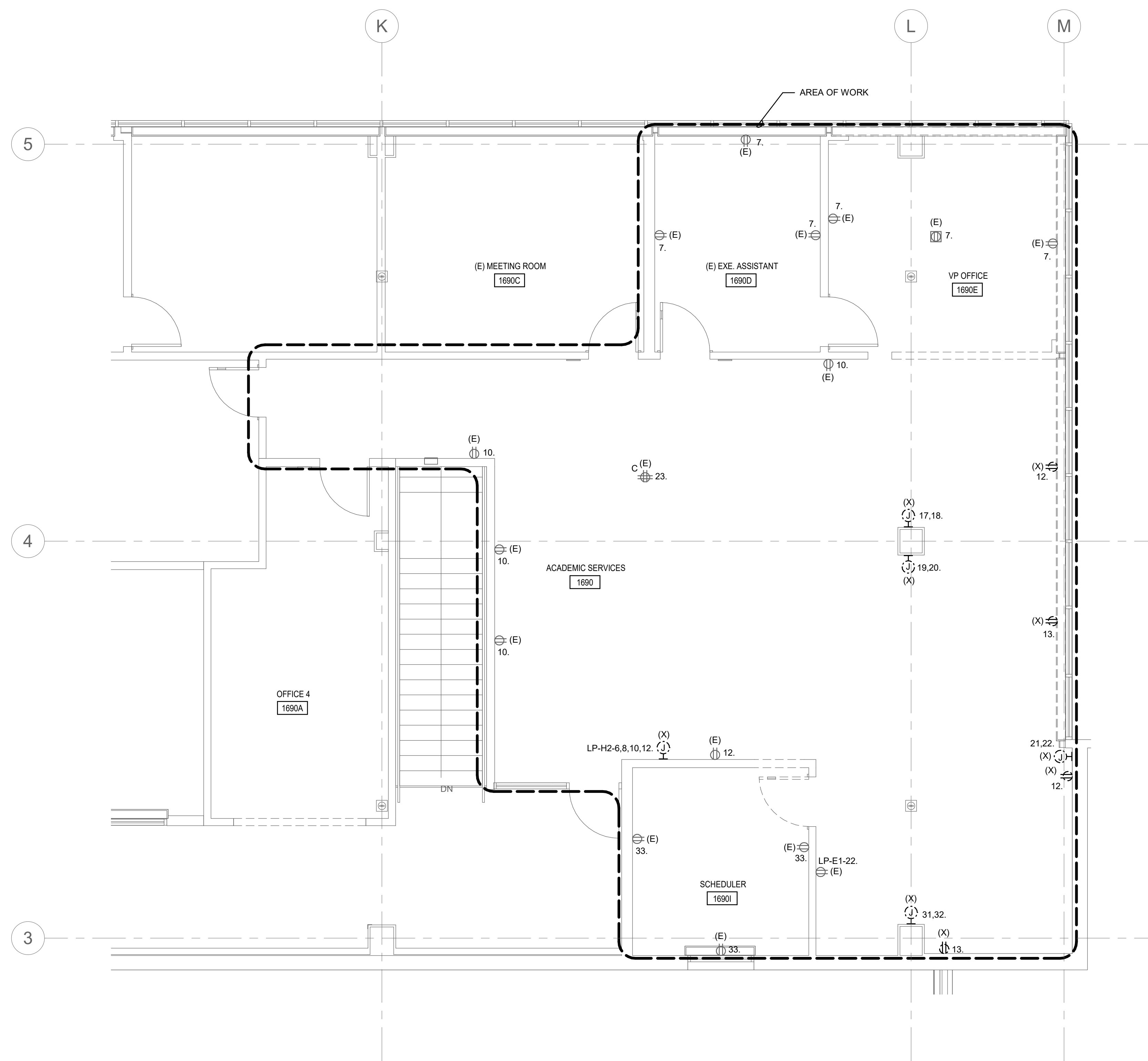


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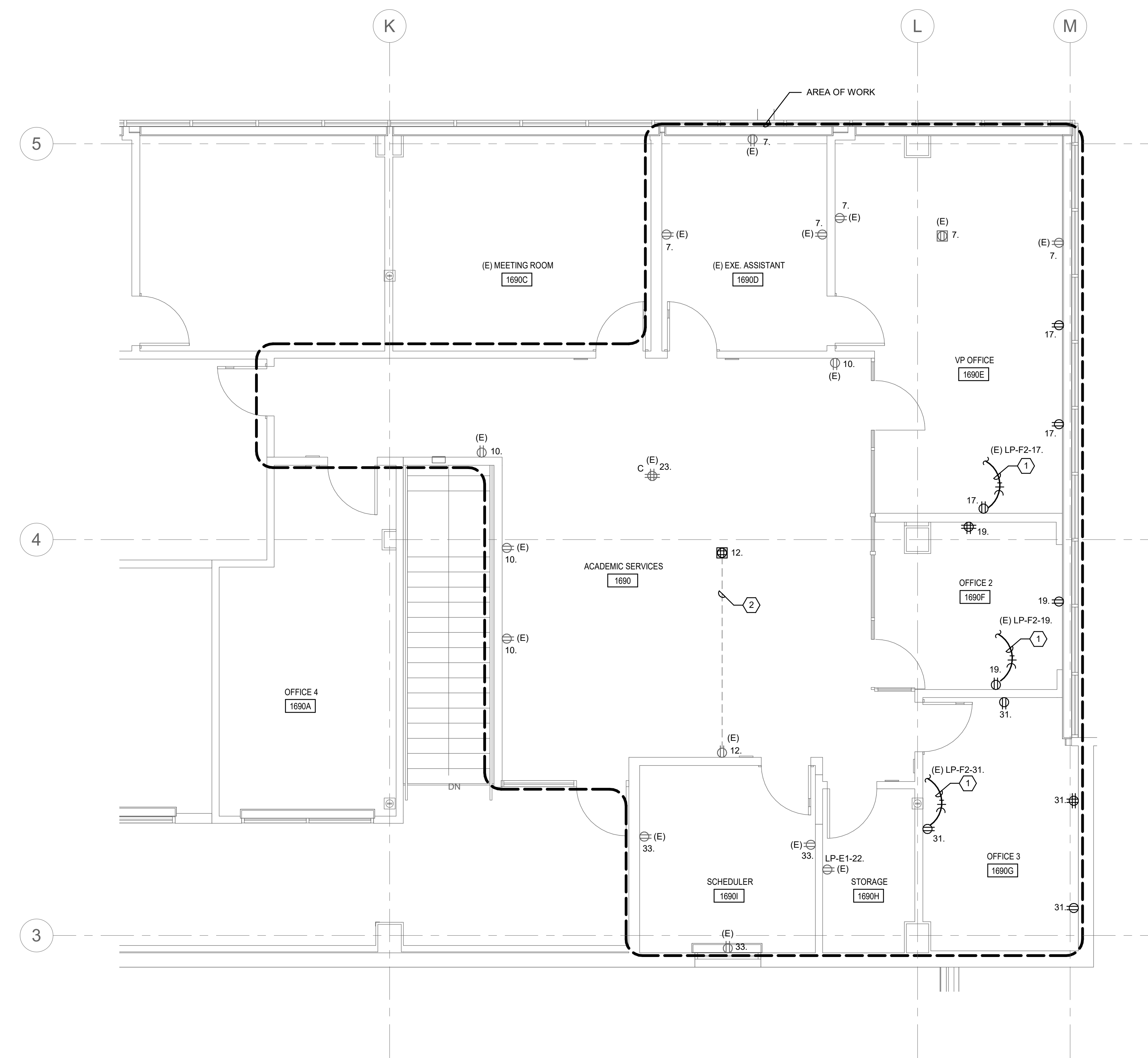
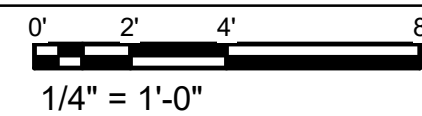
ARCHITECT
Steinberg Architects
60 Pierce Avenue
San Jose, CA 95110



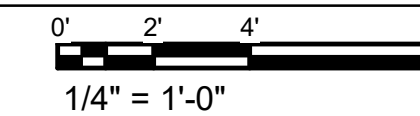
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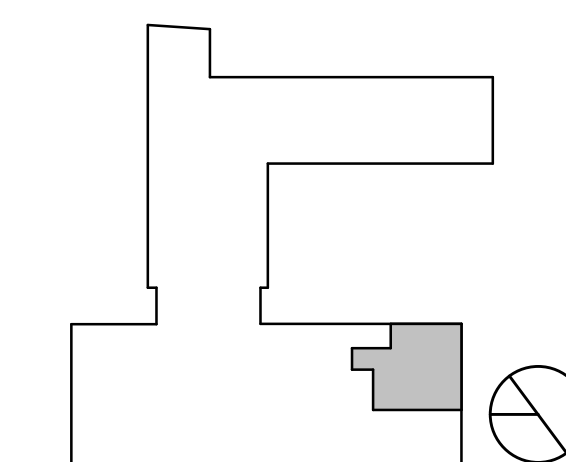
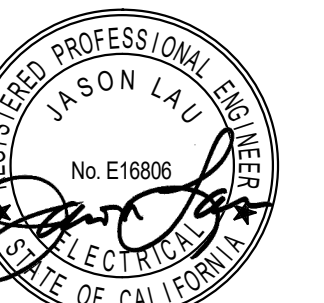
1 LEVEL 2 ADMIN SUITE TI DEMO PLAN - POWER



2 LEVEL 2 ADMIN SUITE TI PLAN - POWER



REV DATE ISSUE



Administration Services Interior Improvements

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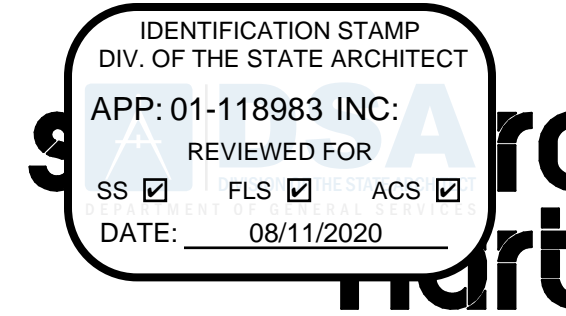
ENLARGED FLOOR PLAN - POWER

REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE: 1/4" = 1'-0"

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SHEET KEYNOTES

1. LOADS SHOWN ARE FOR NEW LOADS ONLY.

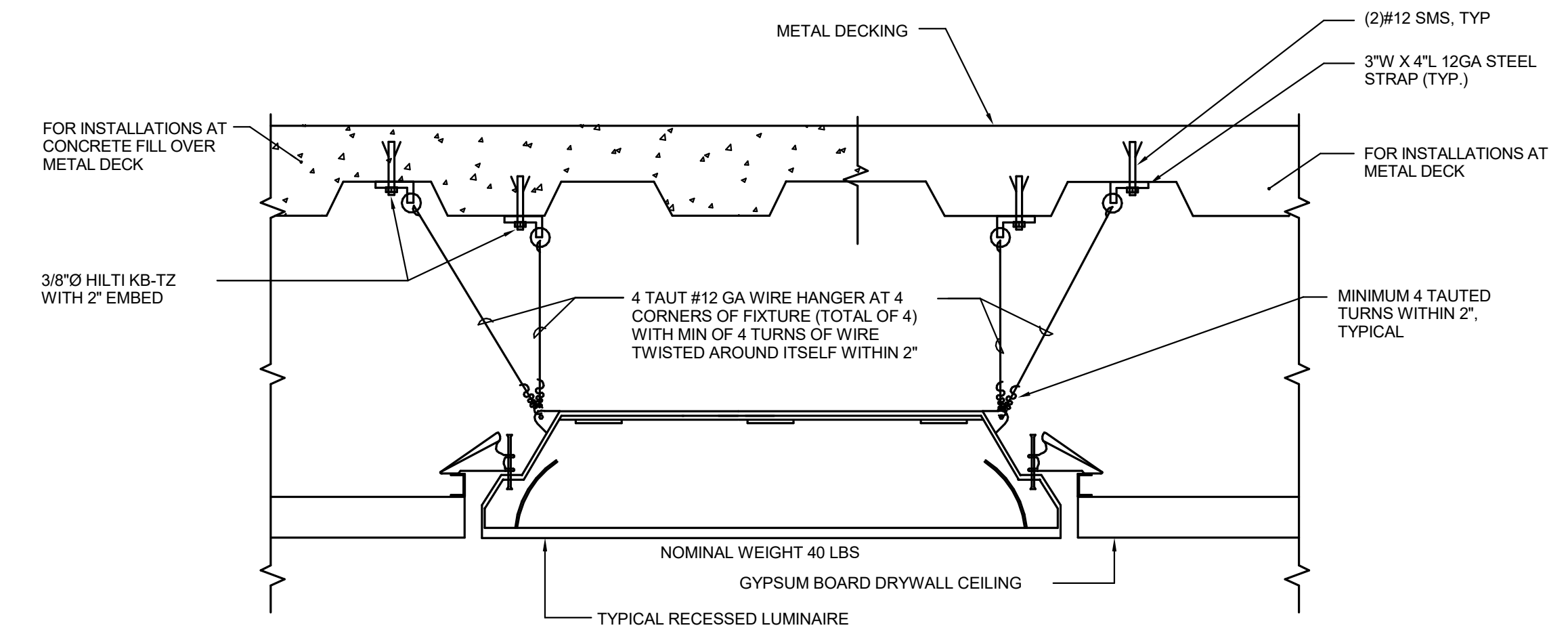


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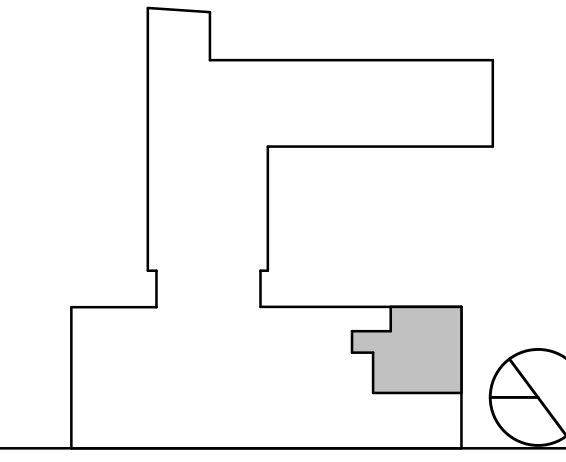
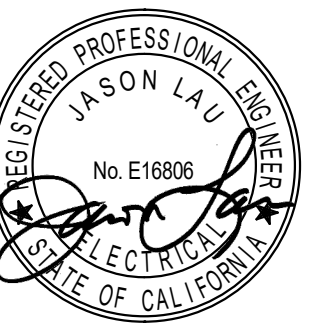


1 LUMINAIRE HANGING DETAIL

NO SCALE

(E) PANELBOARD: LP-F2																	
MAIN CIRCUIT BREAKER: 125 A				MOUNTING: RECESSED				Accessories:									
BUS AMPACITY: 125 A				ENCLOSURE: TYPE 1													
EQUIPMENT RATING: 120/208 V, 3PH, 4 WIRE				LOCATION:													
AIC RATING:				SUPPLIED FROM:													
CKT	Description/Location	Type	C.B.	Pole	Note	Load (VA)						Note	C.B.	Type	Description/Location	CKT	
						A	B	C	A	B	C						
1	(E) LOAD	--	20 A	1		0			0				1	20 A	--	(E) LOAD	2
3	(E) LOAD	--	20 A	1		0	0		0				1	20 A	--	(E) LOAD	4
5	(E) LOAD	--	20 A	1				0					1	20 A	--	(E) LOAD	6
7	(E) LOAD	--	20 A	1		0			0				1	20 A	--	(E) LOAD	8
9	(E) LOAD	--	20 A	1			0		0				1	20 A	--	(E) LOAD	10
11	(E) LOAD	--	20 A	1				0			540		1	20 A	R	RECEPTACLES RM 290	12
13	(E) LOAD	--	20 A	1		0			0				1	20 A	--	(E) LOAD	14
15	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	16
17	RECEPTACLES RM 290E	R	20 A	1				540			0		1	20 A	--	(E) LOAD	18
19	RECEPTACLES RM 290F	R	20 A	1		540			0		0		1	20 A	--	(E) LOAD	20
21	(E) LOAD	--	20 A	1			0		0		0		1	20 A	--	(E) LOAD	22
23	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	24
25	(E) LOAD	--	20 A	1		0			0		0		1	20 A	--	(E) LOAD	26
27	(E) LOAD	--	20 A	1			0		0		0		1	20 A	--	(E) LOAD	28
29	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	30
31	RECEPTACLES RM 290G	R	20 A	1		720			0		0		1	20 A	--	(E) LOAD	32
33	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	34
35	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	36
37	(E) LOAD	--	20 A	1		0			0		0		1	20 A	--	(E) LOAD	38
39	(E) LOAD	--	20 A	1			0		0		0		1	20 A	--	(E) LOAD	40
41	(E) LOAD	--	20 A	1				0			0		1	20 A	--	(E) LOAD	42
Total Connected load Ph. A						12 A	Panel Connected Load: 2.3 kVA						6.5 A				
Total Connected load Ph. B						0 A	Total Demand Load: 2.3 kVA						6.5 A				
Total Connected load Ph. C						10 A											
Notes:																	
Load Type Definitions:																	
Motor (125% largest Motor + 100% remaining...)				K = Kitchen (Demand as per NEC Table 220.56)				C = Continuous Load (125%)				X = X-Rays (Demand per NEC 660.6)					
R = Receptacles (to 10kVA/100%, over 10 kVA 50%)				G = General Load (Non-continuous) (100%)				L = Lighting (125%)				H = Heating (100%)					
E = Existing Load 30-day metered (125%)				EL = Elevator (Demand as per NEC Table...)				W = Water Heater (125%)									
Load Type	Connected Load	NEC Demand Factor	NEC Demand Load	Panel Totals													
R	2340.0	100.00%	2340.0	Total Connected Load:	2340.0 VA												
				Total NEC Demand:	2340.0 VA												
				Total Connected Current:	6.5 A												
				Total NEC Demand Current:	6.5 A												

REV DATE ISSUE



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DSA File #: 1-C2
DSA Application #: 01-118983

DETAILS AND SCHEDULES - ELECTRICAL

REFERENCE DRAWING:
PROJECT #: 20057.100
DATE: August 10, 2020
SCALE: NO SCALE

E4.01

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GENERAL SHEET NOTES

- A. EXISTING BASIS OF DESIGN OH-1 (1.5SGPM/SQ. FT.) OVER 1605 SQ. FT. 250 HOSE ALLOWANCE. HYDRAULICALLY CALCULATED DEMAND WAS: 790.8GPM @ 80.1PSI. NO NEW CALCULATIONS ARE BEING PROVIDED DUE TO EXISTING OH-1 SYSTEM DEMAND BEING HIGHER THAN NEW LIGHT HAZARD DEMAND.
 - a. NEW SPRINKLER DEMAND IN EXISTING REMOTE AREA IS 513GPM @ 48.2PSI. FOR LIGHT HAZARD.
- B. EXISTING SWAY BRACING TO REMAIN IN PLACE.
- C. HANGERS AND BRANCHLINE RESTRAINTS TO REMAIN UNLESS NOTED OTHERWISE ON PLANS.
- D. ALL NEW ARM-OVERS TO BE 1" SCH.40BLACK STEEL PIPE.

SHEET KEYNOTES

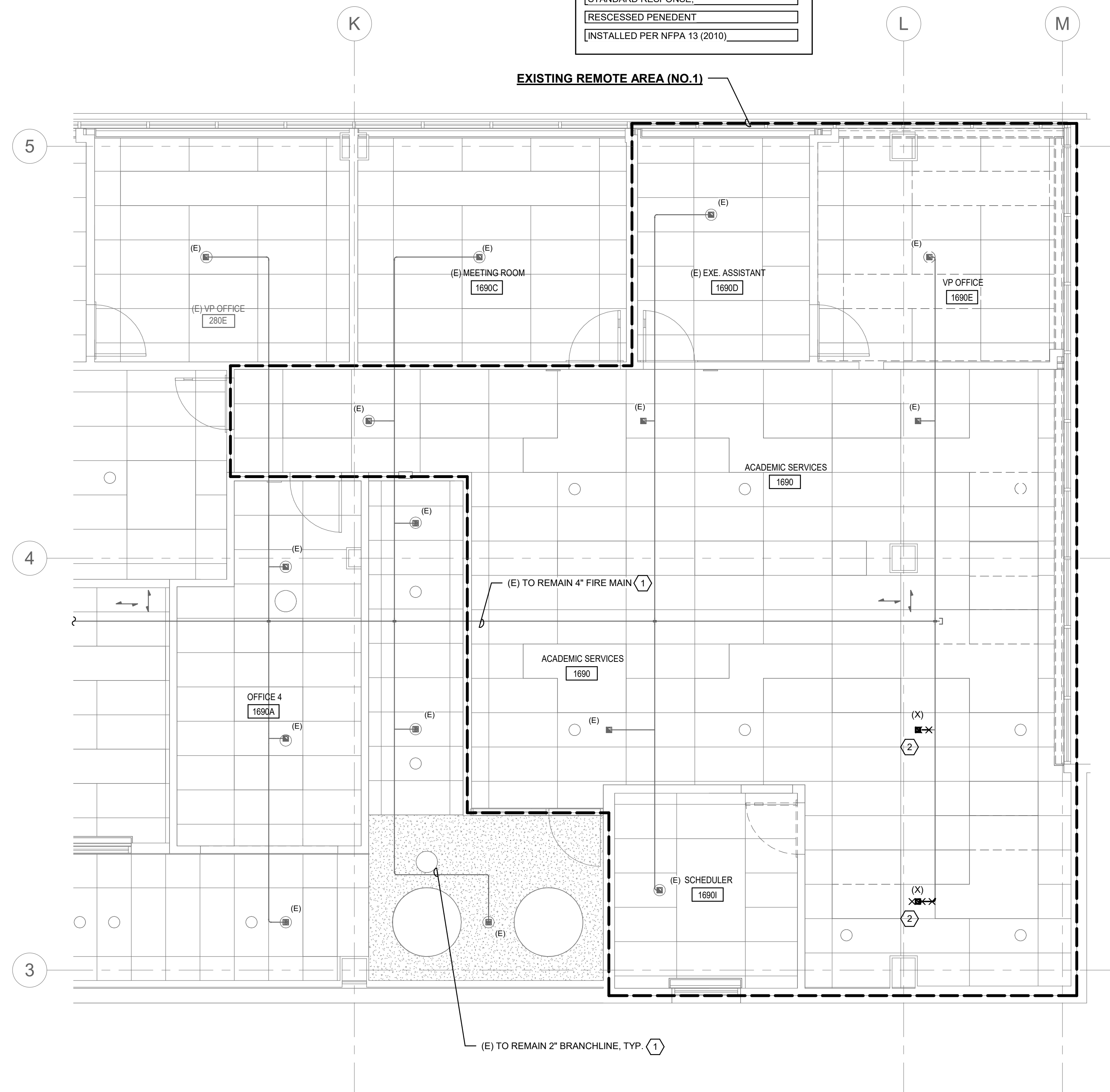
- 1. EXISTING 4" FIRE MAIN AND 2" BRANCHLINES TO REMAIN. INCLUDING SWAY BRACING, RESTRAINTS AND HANGERS.
- 2. DEMOLISH EXISTING SPRINKLER HEAD AND 1" ARM-OVER BACK TO BRANCHLINE. PROTECT FOR USE IN NEW CONSTRUCTION AREA.
- 3. PROVIDE NEW 1" MECHANICAL TEE CONNECTED TO NEW SPRINKLER HEAD IN EXISTING CEILING.
- 4. CONNECT NEW 1" ARM-OVER TO EXISTING TEE ON BRANCHLINE.
- 5. PROVIDE NEW 2"x1" TEE. CONNECT TO SPRINKLER HEADS TO NEW TEE ON EXISTING BRANCHLINE.
- 6. SMALL ROOM RULE - SPRINKLERS LOCATED IN SMALL ROOMS AS DEFINED BY NFPA 13(2016)3.3.22 SHALL BE LOCATED NO MORE THAN 9-FT FROM ANY WALL, NFPA 13(6.6.3.2.4.1).

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 Chabot Las-Positas Community College District
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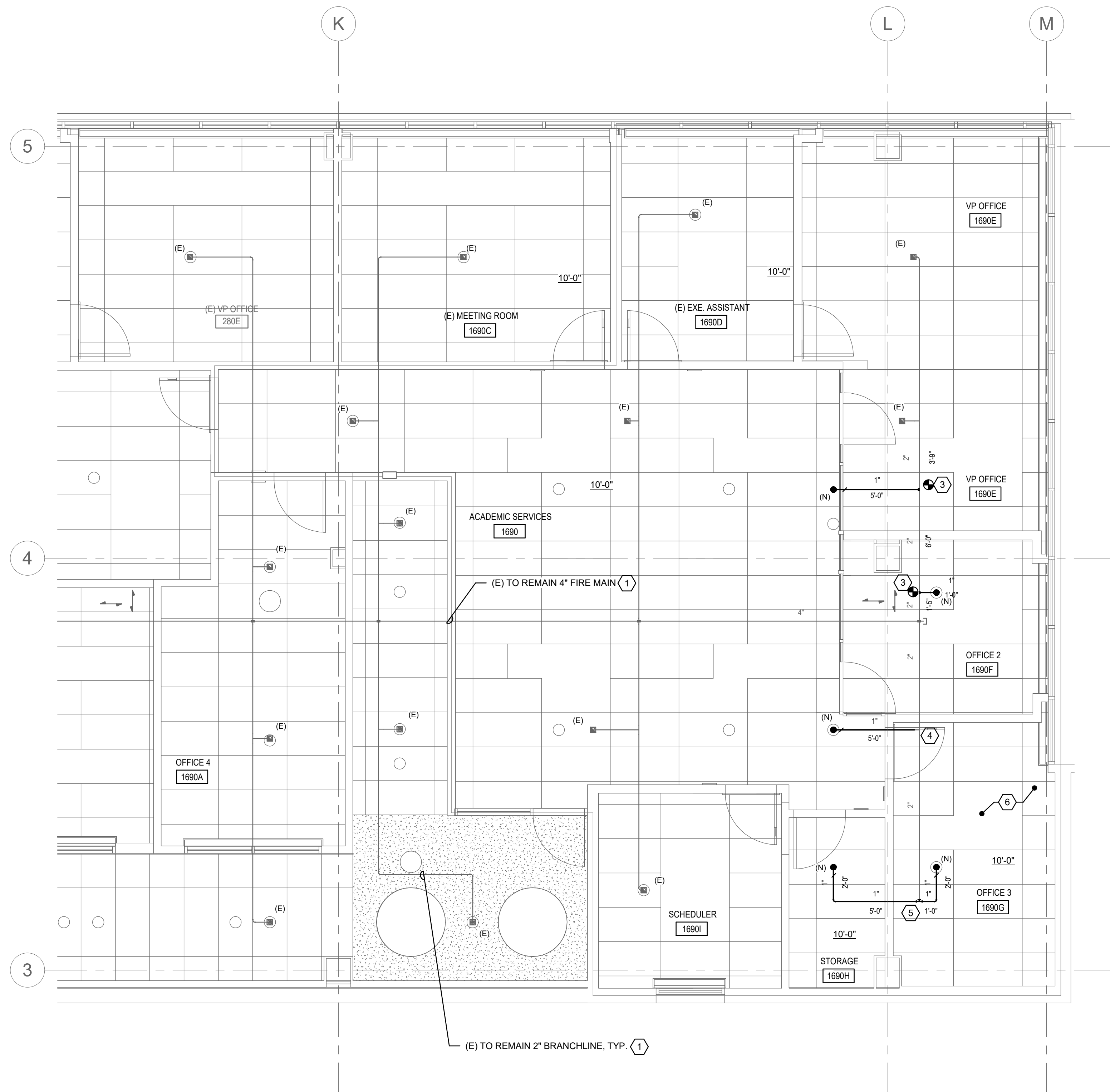
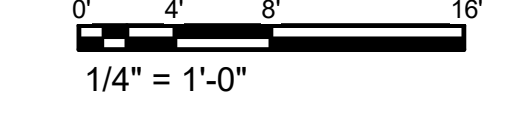
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INTERFACE ENGINEERING
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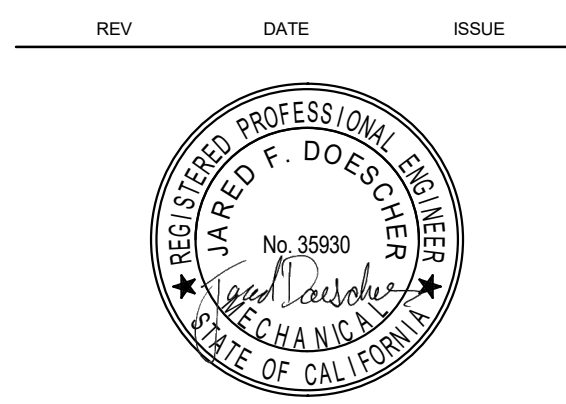
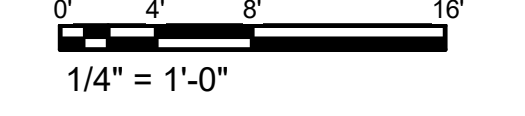
HYDRAULIC REMOTE AREA	
REMOTE AREA	NO.1 (EXISTING)
HAZARD	OH-1
AREA OF APPLICATION	1605 SQ. FT.
NO. OF SPRINKLERS	9
DENSITY	1.15 GPM/SQ. FT.
SYSTEM DEMAND AT BASE OF RISER	
	790.8GPM @ 81PSI
HOSE	INSIDE
	250 GPM OUTSIDE
COVERAGE PER SPRINKLER	288 SQ. FT.
COMMENTS	
	(E) SPRINKLERS - TYCO MODEL TYS327 (11.2k)
	STANDARD RESPONSE.
	RECESSED PENDENT
	(INSTALLED PER NFPA 13 (2010))



1 LEVEL 2 ADMIN SUITE TI - DEMO FIRE PROTECTION PLAN - ADMIN



2 LEVEL 2 ADMIN SUITE TI FIRE PROTECTION PLAN - ADMIN



Administration Services Interior Improvements

Las Positas College
 3000 Campus Hill Dr.,
 Livermore, CA 94551

DSA File #: 1-C2
 DSA Application #: 01-118983

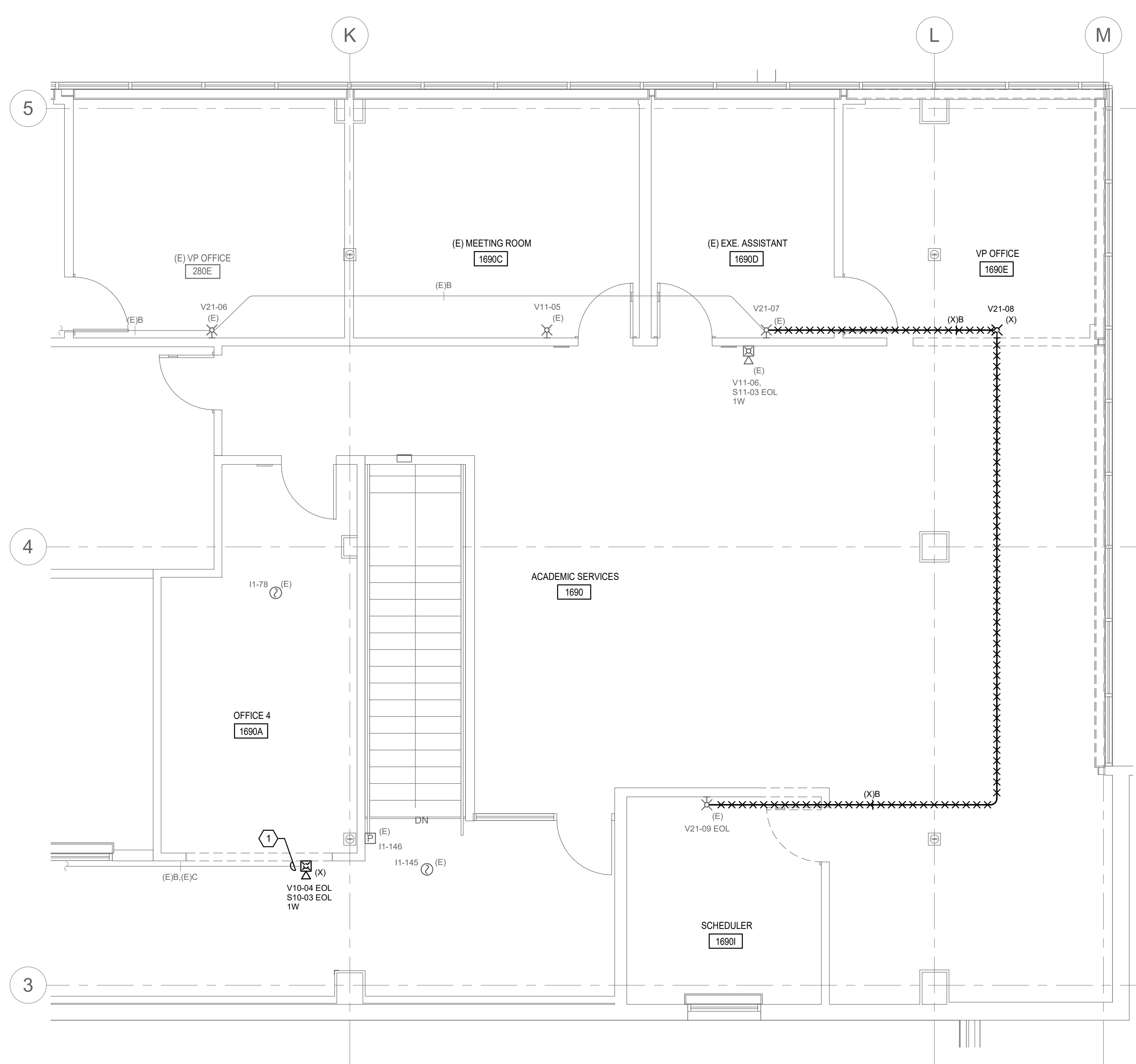
ENLARGED RCP - DEMO AND NEW WORK - FIRE PROTECTION

REFERENCE DRAWING:
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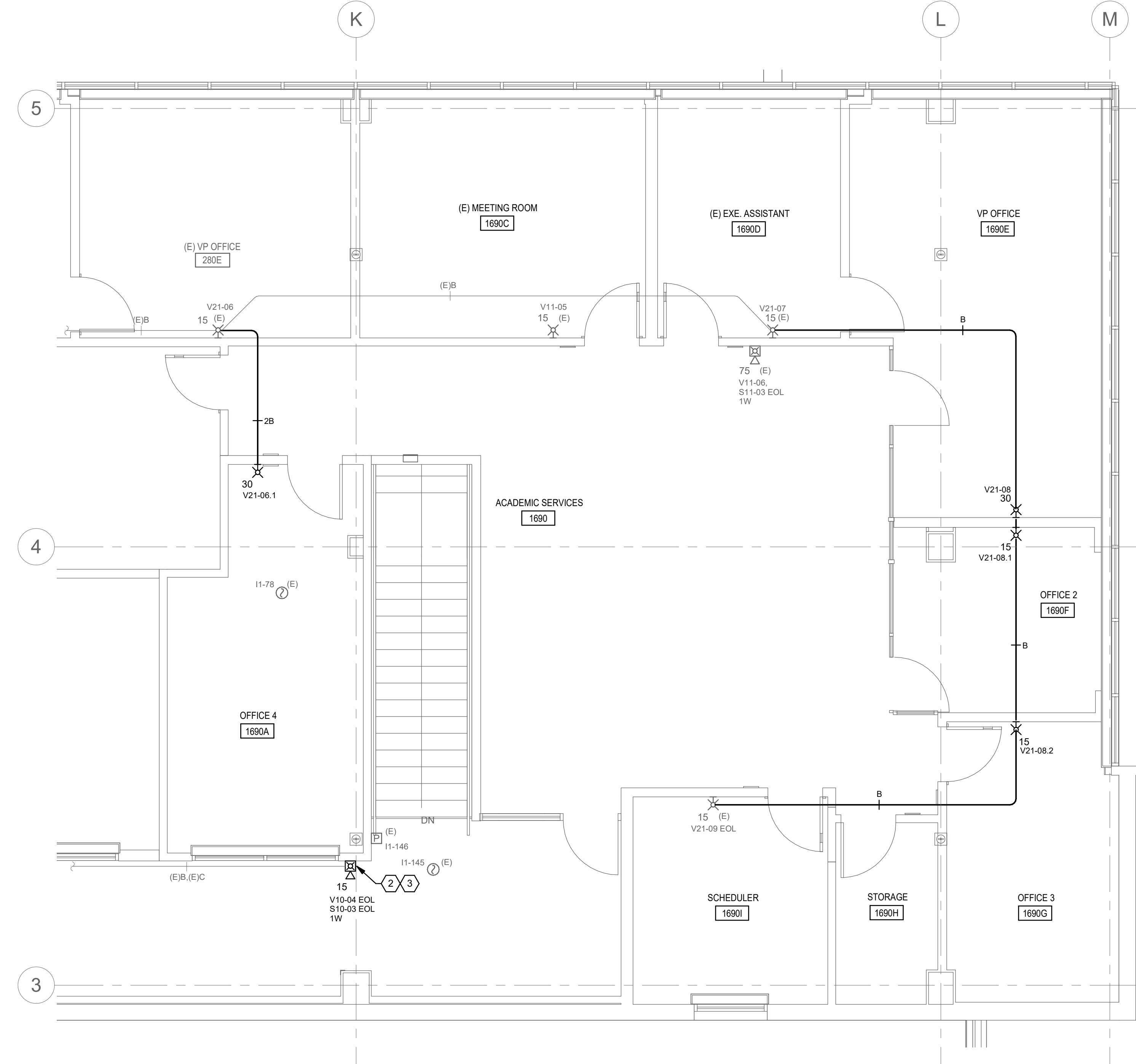
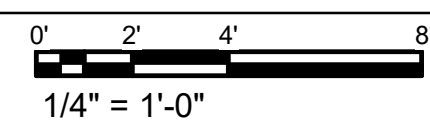
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SHEET KEYNOTES

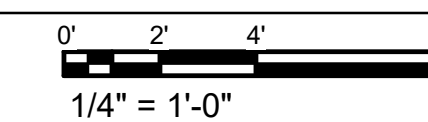
- PULL BACK EXISTING CABLE TO ABOVE CEILING AND PROVIDE JUNCTION BOX FOR EXTENDING CIRCUIT TO NEW APPLIANCE.
- CONNECT NEW APPLIANCE TO EXISTING CIRCUIT. EXTEND CABLING AS NEEDED TO REACH NEW APPLIANCE. PROVIDE TERMINAL STRIP WITHIN JUNCTION BOX AS NEEDED. SPLICING OF CABLE NOT ALLOWED.
- MINIMAL DISTANCE OF APPLIANCE RELOCATION DOES NOT AFFECT VOLTAGE DROP OF EXISTING CIRCUIT.



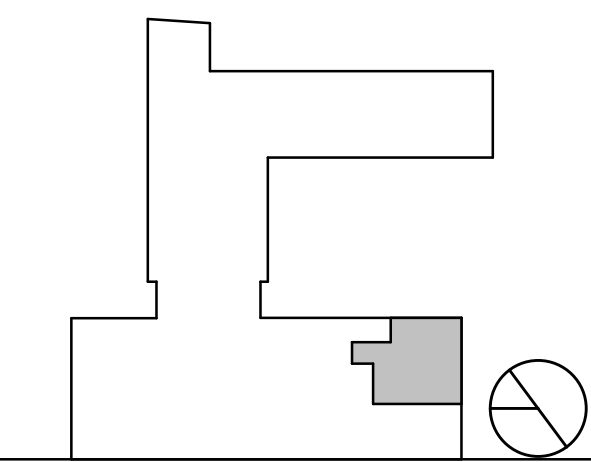
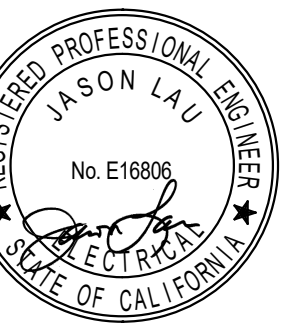
1 LEVEL 2 ADMIN SUITE TI - DEMO FIRE ALARM PLAN - ADMIN



2 LEVEL 2 ADMIN SUITE TI FIRE ALARM PLAN - ADMIN



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Administration Services Interior Improvements

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ENLARGED FLOOR PLAN -
 DEMO AND NEW WORK -
 FIRE ALARM

REFERENCE DRAWING:
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TECHNOLOGY SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

Abbreviations

AFF ABOVE FINISHED FLOOR
 AV AUDIO VISUAL
 ATS AUTOMATIC TRANSFER SWITCH
 BC BARE COPPER
 CATV CABLE TELEVISION
 CAT CATEGORY
 CB CIRCUIT BREAKER
 CCTV CLOSED CIRCUIT TELEVISION
 COAX COAXIAL
 COM COMMUNICATION
 CONDUIT
 CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED
 CFOI CONTRACTOR FURNISHED OWNER INSTALLED
 CNTL CONTROL
 CPT CONTROL POWER TRANSFORMER
 CR CONTROL RELAY
 CT CURRENT TRANSFORMER
 (X) DEMOLISH
 EA EACH
 E EMERGENCY
 (E) EXISTING
 LC FIBER OPTIC CONNECTOR
 SC FIBER OPTIC CONNECTOR
 FDU FIBER OPTIC DISTRIBUTION UNIT
 FF FINISH FLOOR
 FA FIRE ALARM
 FACP FIRE ALARM CONTROL PANEL
 FT FOOT, FEET
 GRC GALVANIZED RIGID STEEL CONDUIT
 ANMW GEL-FILLED UNDERGROUND CABLE
 G, GND GROUND
 HH HANDHOLE
 IN INCH, INCHES
 IT INFORMATION TECHNOLOGY
 IDF INTERMEDIATE DISTRIBUTION FRAME
 IMC INTERMEDIATE METAL CONDUIT
 LAN LOCAL AREA NETWORK
 LV LOW VOLTAGE
 MDF MAIN DISTRIBUTION FRAME
 MSB MAIN SWITCHBOARD
 MTS MANUAL TRANSFER SWITCH
 MATV MASTER ANTENNA TELEVISION
 MISC MISCELLANEOUS
 M MOTOR
 (N) NEW
 NC NORMALLY CLOSED
 NO NORMALLY OPEN
 NA NOT APPLICABLE
 NTS NOT TO SCALE
 OSP OUTSIDE PLANT
 OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
 OFOI OWNER FURNISHED, OWNER INSTALLED
 PTZ PAN, TILT, ZOOM
 PNL PANEL
 PVC POLY-VINYL-CHLORIDE
 POE POWER OVER ETHERNET
 PBX PRIVATE BRANCH EXCHANGE
 QTY QUANTITY
 RFI REQUEST FOR INFORMATION
 RM ROOM
 TBB TELECOMMUNICATIONS BONDING BACKBONE
 TGB TELECOMMUNICATIONS GROUNDING BUS BAR
 TELE TELEPHONE
 TTB TELEPHONE TERMINAL BOARD
 TYP TYPICAL
 UPS UNINTERRUPTABLE POWER SUPPLY
 UNLESS OTHERWISE NOTED
 WF WEATHERPROOF
 WAN WIDE AREA NETWORK
 WAP WIRELESS ACCESS POINT
 WI-FI WIRELESS FIDELITY
 W WITH
 W/O WITHOUT

Equipment

2-POST EQUIPMENT RACK
 DOUBLE-SIDED VERTICAL WIRE MANAGEMENT
 MAJOR EQUIPMENT, CABINETS OR PANELS

General

DEMOLISH

Raceways

CABLE RUNWAY, WIDTH AS INDICATED
 CONDUIT AND CONDUCTORS ABOVE GRADE
 CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB
 CONDUIT DOWN
 CONDUIT SLEEVE
 CONDUIT UP
 CONDUIT/WIRING CONTINUATION

FLEXIBLE CONDUIT

HANDHOLE

PULL BOX

TELECOMMUNICATIONS VAULT

TELEPHONE BACKBOARD

Reference Symbols

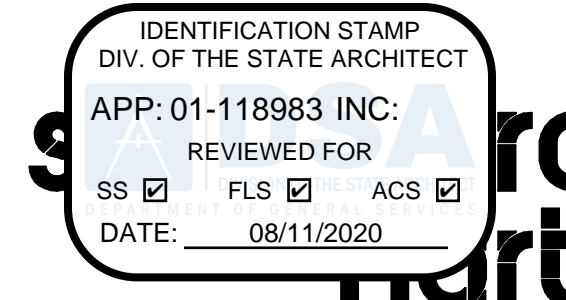
DETAIL NUMBER AND SHEET LOCATION
 KEYED NOTES
 SECTION NUMBER AND SHEET LOCATION

Telecommunications

STANDARD TELECOMMUNICATIONS OUTLET WITH 5" SQUARE RANGL BACKBOX, SINGLE GANG FACEPLATE AND COMMSCOPE SYSTEMAX CAT6A CABLING IN A 1-1/4" TO ACCESSIBLE CEILING SPACE (X)
 A = (1) VOICE/(1) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 B = (2) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 C = (2) VOICE/(2) DATA IN FOUR PORT FACEPLATE.
 D = (4) DATA IN FOUR PORT FACEPLATE.
 E = (1) VOICE IN ONE PORT FACEPLATE WITH KNOBS FOR HANGING WALL PHONES.
 LEGRAND WIREMOLD EVOLUTION SERIES 6" POKE-THRU COMBINATION TELEDATA/AV OUTLET AND COMMSCOPE SYSTEMAX CAT6A CABLING:
 A = (1) VOICE/(1) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 B = (2) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 C = (2) VOICE/(2) DATA IN FOUR PORT FACEPLATE.
 D = (4) DATA IN FOUR PORT FACEPLATE.
 LEGRAND WIREMOLD EVOLUTION SERIES 8-GANG FLUSH FLOOR COMBINATION COMMUNICATIONS OUTLET AND COMMSCOPE SYSTEMAX CAT6A CABLING AND 1-1/4" IN SLAB CONDUIT TO NEAREST WALL, THEN TO CABLE TRAY ROUTING IN ACCESSIBLE CEILING SPACE.
 A = (1) VOICE/(1) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 B = (2) DATA IN FOUR PORT FACEPLATE, UNUSED PORTS BLANKED.
 C = (2) VOICE/(2) DATA IN FOUR PORT FACEPLATE.
 D = (4) DATA IN FOUR PORT FACEPLATE.

GENERAL TECHNOLOGY NOTES

- COMMUNICATIONS RACEWAYS, TRAYS, AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. LOCATIONS ARE APPROXIMATE UNLESS SPECIFICALLY DIMENSIONED. FIELD COORDINATE ALL WORK WITH OTHER TRADES.
- CONSTRUCTION DETAILS SHOW TYPICAL INSTALLATION. UON, AND APPLY TO ALL COMMUNICATIONS WORK INCLUDED IN THE SUMMARY OF WORK FOR THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.
- THE TECHNOLOGY DRAWINGS ARE PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF DRAWINGS LISTED BY THE "INDEX OF DRAWINGS." PARTIAL SETS OF DRAWINGS NOT INCLUSIVE OF ALL DISCIPLINES ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED.
- INSTALL PULL STRINGS IN ALL CONDUITS AT THE TIME OF CONDUIT AND CABLE INSTALLATION.
- COORDINATE ALL DOOR ACCESS CONTROL FUNCTIONS WITH ADA DOOR ACTUATOR FUNCTION SUCH THAT DOOR MOTOR WILL NOT OPERATE WITHOUT PRIOR VALID CARD READ DURING SECURE MODE OPERATION.



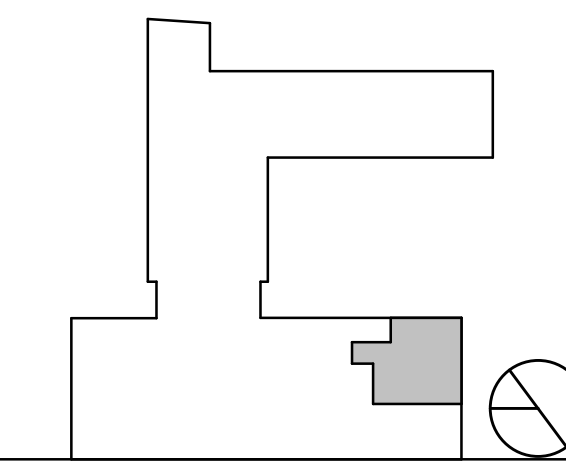
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SYMBOL LIST AND
 GENERAL NOTES -
 TECHNOLOGY

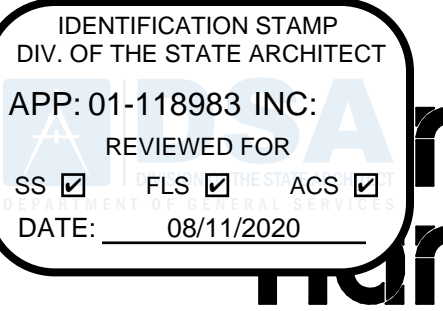
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SHEET INDEX

T0.01 SYMBOL LIST AND GENERAL NOTES - TECHNOLOGY
 T2.01 ENLARGED FLOOR PLAN - TECHNOLOGY

SHEET KEYNOTES

1. WIREMOLD SAT POKETHRU WITH TYPE C DATA OUTLET. CONTRACTOR SHALL TERMINATE CAT6A CABLING IN IDF 1654 AND LABEL NEW OUTLET AS 1690-12. PROVIDE 2" UNDERSLAB CONDUIT AND STUB INTO ACCESSIBLE CEILING SPACE.
2. FURNITURE FEED DATA OUTLET 1690-04 SHALL BE PULLED BACK INSTALLED FLUSH ON THE PILLAR.
3. LOW VOLTAGE CABLING SHALL BE DISCONNECTED AND COILED UP IN CEILING FOR FUTURE USE.
4. LOW VOLTAGE CABLING TO BE REINSTALLED, TERMINATED AND TESTED AFTER NEW WORK IS COMPLETE.

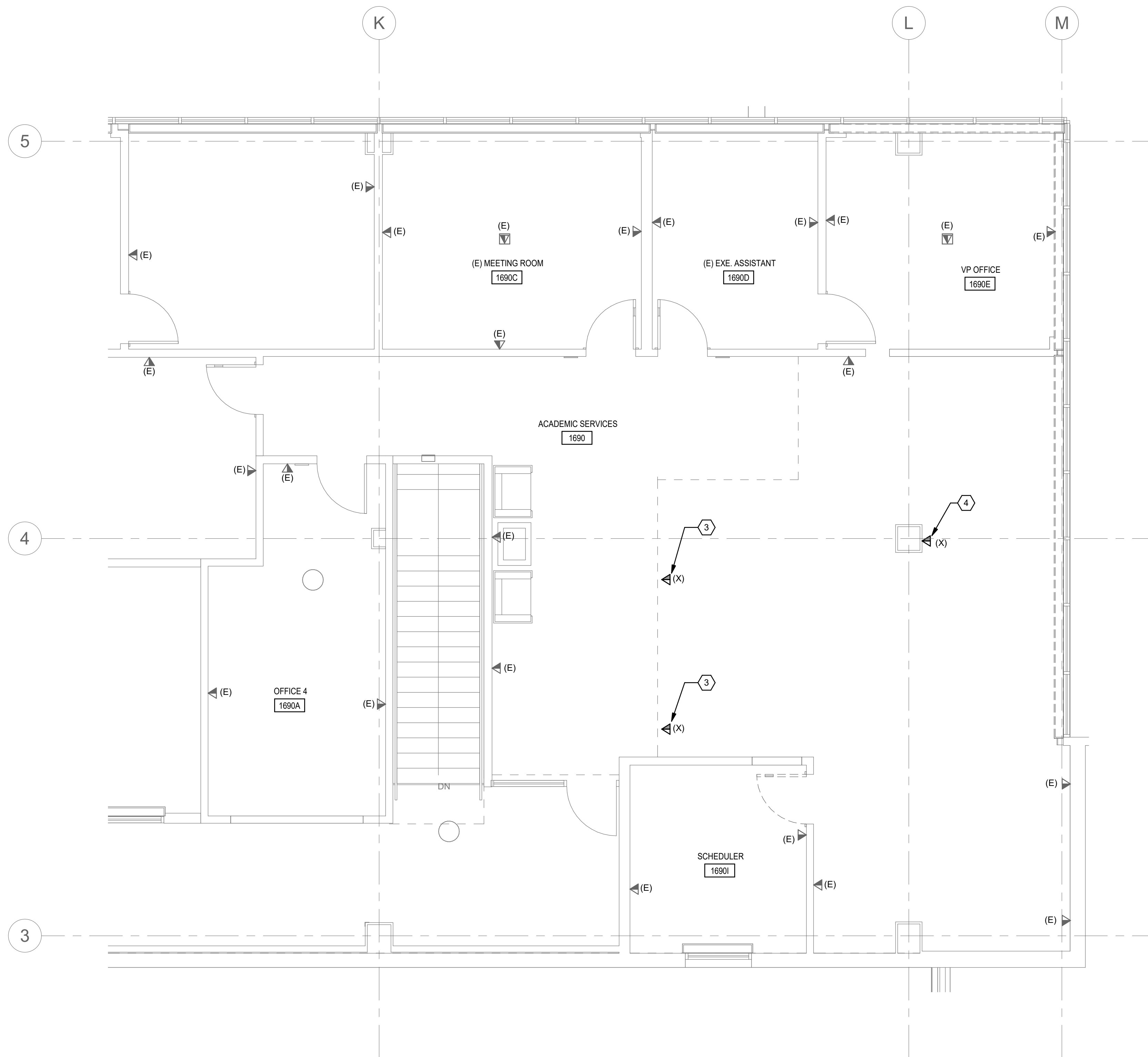


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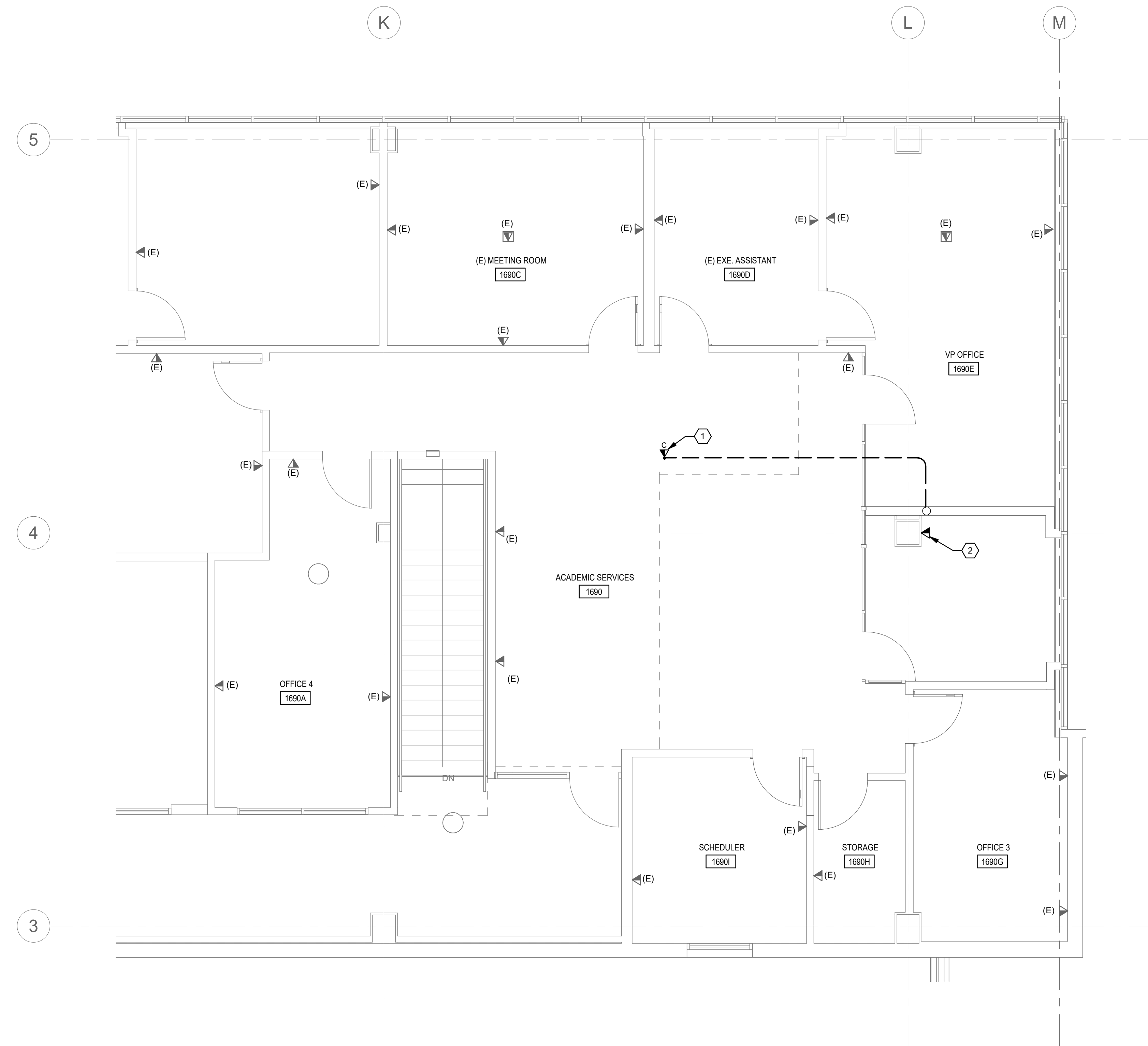
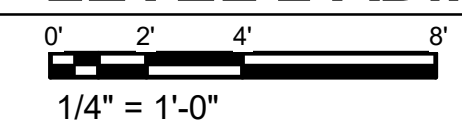
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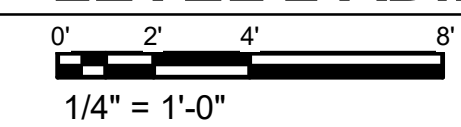
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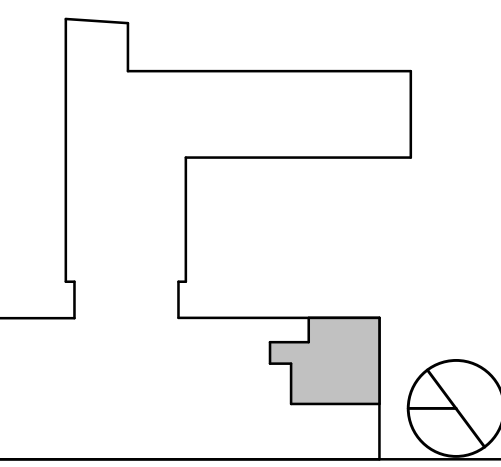
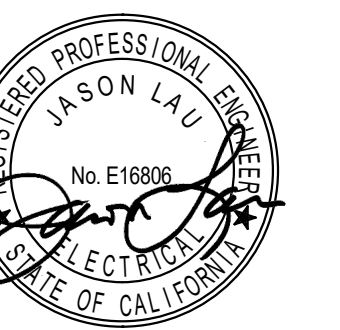
1 LEVEL 2 ADMIN SUITE TI - DEMO TECHNOLOGY PLAN - ADMIN



2 LEVEL 2 ADMIN SUITE TI TECHNOLOGY PLAN - ADMIN



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ENLARGED FLOOR PLAN -
TECHNOLOGY

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