LOS RIOS COMMUNITY COLLEGE DISTRICT

1919 Spanos Court, Sacramento, CA 95825
Phone (916) 568-3071 FAX (916) 568-3145
Purchasing Department

Sacramento City College American River College Cosumnes River College Folsom Lake College

ADDENDUM NO. 1

ISSUE DATE: April 4, 2018

CRC College Center Expansion

LRCCD BID NO. 17021

Issued By:

LOS RIOS COMMUNITY COLLEGE DISTRICT
1919 Spanos Court, Sacramento, CA 95825
Phone (916) 568-3071 Fax (916) 568-3145

This addendum forms a part to the Contract Documents. The addendum items supersede and supplement all portions of the bidding documents with which it conflicts. All workmanship, materials, appliances and equipment which may be included in the following addendum items shall be of the same relative quality as described for similar work set forth in the general or main specifications of which these addendum items shall be considered a part.

This Addendum has been acknowledged in the space provided on the Bid Form and is considered part of the bid documents.

This Addendum consists of 256 pages.

RFI #1: Is there any asbestos abatement in this project scope?

Response #1: NO abatement in this project"

RFI #2: Could you tell me what the summer 2018 phase includes and if it is programmatically required for the CRC College Expansion Bid #17021?

RESPONSE #2: The contract days and any phasing restrictions are shown in specification section 01 1100 Summary Of Work.

RFI #3: We have purchased the documents to bid the referenced project. We were told by ARC-Central that electronic copies are not available. Is it possible to get electronic copies so we can distribute to the subcontractors and also complete our take-off electronically? It will be greatly appreciated.

RESPONSE #3: Electronic bid docs are not available through ARC-Central for this project.

CRC College Center Expansion

BID # 17021
April 4, 2018
10:00 AM

Job Walk Notes

Attendees:
Kim Carrillo – Purchasing, Los Rios CCD
Debra Kristoff - Purchasing, Los Rios CCD
Dan Cox – Facilities Management, Los Rios CCD

Additional attendees per sign in sheet

Location: Cosumnes River College

Project review: Briefly discussed the project including but not limited to the following items:

1. Submittals, bid deadline, required bid documents, Board approval date, addendum postings, attached agenda items.
2. Attendees advised to refer to project manual for details.
3. It is not mandatory that the plans are purchased from ARC Document Solutions; however, ARC is the official reprographics, and all addenda are issued from ARC.
4. Procedures for handling questions and requests for information, and deadline to submit RFI's.
5. Request for information will be accepted until **12:00 PM, Friday, April 6, 2018.**

Items discussed:

1. Bid will be opened **Wednesday, April 18, 2018 2:00PM.**
2. Watch for phasing and access.
3. Safety.
4. Addendum #1 to be issued today to include underground hydronic drawings.
5. Allowances to be included in Base Bid.
6. Is there hazardous materials? No. Abatement Report is clean.
7. Can RFI deadline be extended? No. Award will be made at May 9th Board meeting.
8. Is this an LEED project? No.
9. What is the project start date? Early June.
10. Is there audio/visual in the scope? Refer to infrastructure in Specifications.
11. Viewed interior Student Center and Administration area of building that will be vacated during the remodel.
12. Viewed exterior electrical and data rooms.
13. Where will parking be located? Refer to plans for location of corporate yard. Or pay for parking outside of corporate yard.
14. Does entire building get new roof? No. Refer to specifications.
15. Access? Refer to drawings for identified clear path of access on paved road by Fine Arts building using fire lane.

Meeting ended at approximately 10:25 A.M.

Note: These meeting minutes represents the District's best effort to record the issues addressed during the pre-bid meeting. If no corrections or clarification are provided by the attendees within five (5) days of receipt of these minutes, these meeting minutes will be considered accurate, final and part of the project record.

Addendum

PROJECT NAME:	CRC- College Center Expansion
PROJECT NUMBER:	201-0065
TYPE:	Addendums
SUBJECT:	Addendum 01
DUE DATE:	
ID:	ADD-001
SENDER ID:	
INITIATED BY:	Tom Hall
REASONS:	
DISCIPLINE:	Electrical, Structural, Mechanical, Architectural, Landscape, Fire Alarm, Plumbing
STATUS:	Open
CONTRACT:	
DESCRIPTION:	Sheets added and modified

G0.10 – Modified Bid alternates
G0.11 – Modified sheet index
A0.31 – Modified keynotes
LD1.00 – Modified limit of work notes
AD2.00A – Modified scope of work boundary lines
AD2.00B – Modified scope of work boundary lines
AD2.10 – Modified contractor contact information
AD6.00A – Modified scope of work boundary lines
AD6.00B – Modified scope of work boundary lines
PD2.01 – The demolition of the sink scope was added
ED1.01 – Modified key notes and added coordination note for campus wide shut down
ED2.00A – Added demolition general notes and revised hatching.
ED2.00B – Added demolition general notes and revised hatching.
ED3.00 – Modified key note 1 security head end equipment for coordination with new location
FAD1.01 – Modified remodel area
A1.00 – Modified site plan
A2.01A – Modified scope of work boundary lines, wall types for "building support" 185, depressed slab, locations for j-box for future door actuator, and windows at transaction counter
A2.01B – Modified scope of work boundary lines, general notes, floor plan symbols legend
A2.02 - Modified railing at stairs, walls at Open Office 254
A2.15 – Modified contractor contact information, detail tags
A2.30 – Modified finish material legend, wall combinations notes, general notes
A2.31A – Modified finish plan symbols, reception deck at reception 161Q, and updated finish tags
A2.31B – Removed graphics, finish plan symbols
A2.32 – Modified finish plan symbols, wall and deck at Open Office 254, and finish tags
A2.43 – Modified remarks column
A2.44 – Modified detail B9
A2.81 – Modified door schedule, door finish legend, door types, add fire curtain schedule

A2.82 – Modified general notes
A2.83 – Modified general notes
A2.84 – Modified general notes
A2.85 – Modified general notes, storefront type IS15
A3.11 – Modified "Exterior Finish Legend"
A3.12 – Modified "Exterior Finish Legend"
A3.13 – Modified "Exterior Finish Legend"
A3.14 – Modified "Exterior Finish Legend"
A3.23 – Modified detail K6
A3.31 – Modified wall assembly notes
A3.32 – Modified wall assembly notes
A3.33 – Modified wall assembly notes
A3.34 – Modified wall assembly notes
A4.01 – Modified interior elevation with updated information, changed general notes
A4.02 – Modified interior elevation with updated information, changed general notes
A4.03 – Modified interior elevation with updated information, changed general notes
A4.04 – Modified interior elevation with updated information, changed general notes
A5.01 – Modified interior elevation with updated information
A5.02 – Modified interior elevation with updated information
A5.03 – Modified interior elevation with updated information
A5.04 – Modified interior elevation with updated information
A5.05 – Modified interior elevation with updated information
A5.06 – Modified interior elevation with updated information
A5.07 – Modified interior elevation with updated information
A5.08 – Modified interior elevation with updated information
A5.09 – Modified interior elevation with updated information
A6.01A – Modified scope of work boundary lines, Reflected Ceiling Plan General Notes
A6.01B – Modified scope of work boundary lines, Reflected Ceiling Plan General Notes
A7.01 – Modified detail K3
A7.02 – Modified detail C3 and C8
A7.04 – Modified Stair 2 detail tags
A7.05 – Modified detail C10 and F3
A7.11 – Modified details
A7.12 – Added details H10, H7, K10 and K7
A8.11 – Modified detail G4
A8.20 – Modified general notes
A8.21 – Modified general notes
A8.33 – Modified detail H4
A8.34 – Added detail G4
A9.10 – Modified detail K8 and E8
A9.11 – Modified detail F10 & H5. Removed detail F5
A9.12 – Modified detail H3, H6, F8, F10, D8 and D10
A9.20 – Modified details
A9.53 – Modified detail F5
A9.54 – Modified detail G1

A9.81 – Removed detail B9 & D9
A9.82 – Modified detail K9. Added detail K3
S2.01 – Modified depressed slab
M0.02 – Updated the airflow of the VAV box 1-11
M1.01 – Updated the underground hydronic piping to Aquatherm as basis of design based
M1.02 – Updated the details for the hydronic piping to the basis of design material (Aquatherm)
M4.11 – Added the missing supply diffuser and return grille in the office 150D
P0.01 – Updated the sink S-1 schedule as faucet callout was missing
P2.01 – Updated the drawing as piping graphic was missing
P2.06 – Updated the sheet to add the new sink at open office 130
P2.07 – Updated the sheet to add the new sink at open office 130
P3.01 – Added sheet
E1.02 – Remove some sawcut areas and revised key note 6.
E1.03 – Revised key note 13 for coordination.
E2.01A – Revised key note 8 for coordination with C5 & K5/A9.82. Added interface note with EMS for lighting control panel LCP.
E2.01B – Revised remodel area
E2.02 – Added edge lit signs and added exterior downlight at southeast entry
E2.03 – Added general note and modified device locations
E2.04 – Added key note general note and modified device locations
E3.01A – Revised key notes 16 & 17 for fire shutters and curtains and added power for ATM and motorized doors. Added receptacle below FACP
E3.01B – Revised scope of work
E3.02 – Added key note 12 for receptacle coordination with D6/A7.11
E3.03 – Revised key note 2 for AHU's fused disconnect switches and added 2 maintenance receptacles
E4.01A – Added data for ATM and modified remodel area. Added (see key note 26). Added key note 25 for relocated security head end equipment. Added additional conduit sleeves between 1st and 2nd floor IDF rooms.
E4.01B – Modified remodel area.
E4.02 – Added (see key note 22). Revised access and intrusion panels in IDF 205 for coordination with detail 4/E8.04.
E4.03 – Modified remodel area.
E7.01 – Modified key note 3 for campus wide shut down coordination and added key note 14 for factory power monitoring BACNET over IP.
E7.02 – Added motorized doors and ATM to Panel P schedule.
E8.05 – Removed duplicate communication riser detail 6.
FA2.01 – Revised key note 7 for fire shutters and curtains and added key note 9 for fire curtains.

Specifications modified - replace in entirety

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SECTION 23 21 13.13 UNDERGROUND HYDRONIC PIPING
SECTION 28 13 00 ACCESS CONTROL
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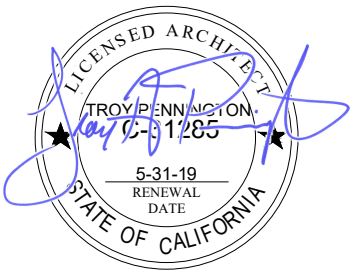
ADD Sections
SECTION 01 61 16 VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS
SECTION 09 72 00 WALL COVERINGS
SECTION 25 15 23 GRAPHICS

ACTIONS

END OF ADDENDUM



ABBREVIATIONS

#	POUND OR NUMBER
&	AND
(E)	EXISTING
(N)	NEW
@	AT
L	ANGLE
Ø	DIAMETER or ROUND
A.C.	ASPHALT CONCRETE
A.C.P.	ALUMINUM COMPOSITE PANEL
A.D.	AREA DRAIN
A.F.F.	ABOVE FINISH FLOOR
A.L.S.	ASSISTED LISTENING SYSTEM
ACOUS.	ACOUSTICAL
ADJ.	ADJUSTABLE or ADJACENT
AGGR.	AGGREGATE
ALUM.	ALUMINUM
APPROX.	APPROXIMATELY
ARCH.	ARCHITECTURAL
ASB.	ASBESTOS
ASPH.	ASPHALT
BD.	BOARD
BITUM.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
BOTT.	BOTTOM
C.B.	CATCH BASIN
C.B.C.	CALIFORNIA BUILDING CODE
C.G.	CORNER GUARD
C.I.	CAST IRON
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
C.L.	CENTERLINE
C.O.	CASED OPENING
C.W.	CURTAIN WALL
CAB.	CABINET
CEM.	CEMENT
CER.	CERAMIC
CLG.	CEILING
CLKG.	CAULKING
CLO.	CLOSET
CLR.	CLEAR
CNTR.	COUNTER
COL.	COLUMN
COMP.	COMPOSITE
CONC.	CONCRETE
CONN.	CONNECTION
CONSTR.	CONSTRUCTION
CONT.	CONTINUOUS
CORR.	CORRIDOR
CTR.	CENTER
CTSK.	COUNTERSUNK
D.F.	DRINKING FOUNTAIN
D.G.	DECOMPOSED GRANITE
D.O.	DOOR OPENING
D.S.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
DBL.	DOUBLE
DEMO.	DEMOLISH
DEPT.	DEPARTMENT
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DISP.	DISPENSER
DN.	DOWN
DR.	DOOR
DTL.	DETAIL
DWG.	DRAWING
DWR.	DRAWER
E.	EAST
E.J.	EXPANSION JOINT
E.O.S.	EDGE OF SLAB
E.P.	ELEC. PANEL
E.W.C.	ELEC. WATER COOLER
EA.	EACH
EL.	ELEVATION
ELEC.	ELECTRICAL
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENCL.	ENCLOSURE
EQ.	EQUAL
EQPT.	EQUIPMENT
EXP.	EXPANSION
EXPO.	EXPOSED
EXST.	EXISTING
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.B.	FLAT BAR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.H.C.	FIRE HOSE CABINET
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
F.S.	FIRE SPRINKLER
FDN.	FOUNDATION
FIN.	FINISH
FL.	FLOOR
FLASH.	FLASHING
FLUOR.	FLUORESCENT
FPRF.	FIREPROOF
FRMG.	FRAMING
FT.	FOOT or FEET
FTG.	FOOTING
FURR.	FURRING
FUT.	FUTURE
G.B.	GRAB BAR
G.S.M.	GALVANIZED SHEET METAL
GA.	GAUGE
GALV.	GALVANIZED
GL.	GLASS
GND.	GROUND
GR.	GRADE
GYP.	GYPSUM
H.B.	HOSE BIB
H.C.	HOLLOW CORE
H.M.	HOLLOW METAL
HDWD.	HARDWOOD
HDWR.	HARDWARE
HORIZ.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
I.D.	INSIDE DIAMETER
I.S.A.	INTERNATIONAL SYMBOL OF ACCESSIBILITY
INSUL.	INSULATION
INT.	INTERIOR
JAN.	JANITOR
JT.	JOINT
K.D.	KNOCK DOWN
L.F.	LINEAL FOOT
LAM.	LAMINATE
LAV.	LAVATORY
LKR.	LOCKER
LT.	LIGHT
M.H.	MANHOLE
M.O.	MASONRY OPENING
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MFR.	MANUFACTURER
MIN.	MINIMUM
MIR.	MIRROR
MISC.	MISCELLANEOUS
MTD.	MOUNTED
MTL.	METAL
MUL.	MULLION
N.	NORTH
N.I.C.	NOT IN CONTRACT
N.R.	NON RATED
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.A.	OVERALL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
O.F.D.	OVERFLOW DRAIN
O.F.O.I.	OWNER FURNISHED OWNER INSTALLED
O.H.	OPPOSITE HAND
O.S.B.	ORIENTED STRAND BOARD
O/	OVER
OBS.	OBSCURE
OCC.	OCCUPANTS OR OCCUPANCY
OFC.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
P.L.	PROPERTY LINE
P.LAM.	PLASTIC LAMINATE
P.T.D.	PAPER TOWEL DISPENSER
P.T.D./R.	PAPER TOWEL DISPENSER/RECEPTACLE
P.T.D.F.	PRESSURE TREATED DOUGLAS FIR
PL.	PLATE
PLAS.	PLASTER
PLYWD.	PLYWOOD
PNTD.	PAINTED
PR.	PAIR
PRCST.	PRECAST
R.C.	RESILIENT CHANNEL
R.D.	ROOF DRAIN
R.O.	ROUGH OPENING
R.R.	RESTROOM
R.W.L.	RAIN WATER LEADER
RAD.	RADIUS
REC.	RECESSED
RECL.	RECYCLING
REF.	REFERENCE
REFR.	REFRIGERATOR
REINF.	REINFORCED
REQ.	REQUIRED
RESIL.	RESILIENT
RGTR.	REGISTER
RISER	RISER
RM.	ROOM
RWD.	REDWOOD
S.	SOUTH
S.A.M.	SELF-ADHERED MEMBRANE
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
S.D.	SOAP DISPENSER
S.F.	SQUARE FOOT
S.M.S.	SHEET METAL SCREW
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
S.O.G.	SLAB ON GRADE
S.S.	STAINLESS STEEL
S.S.G.	STRUCTURAL SEALANT GLAZING
S.SK.	SERVICE SINK
SCHED.	SCHEDULE
SECT.	SECTION
SEP.	SEPARATE or SEPARATION
SHT.	SHEET
SHTG.	SHEATHING
SHWR.	SHOWER
SIM.	SIMILAR
SPEC.	SPECIFICATION
SQ.	SQUARE
ST.	STATION
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STRL.	STRUCTURAL
SUSP.	SUSPENDED
SYM.	SYMMETRICAL
T&G	TONGUE AND GROOVE
T.	TEMPERED GLASS
T.B.	TOWEL BAR
T.O.C.	TOP OF CONCRETE
T.O.P.	TOP OF PARAPET
T.O.STL.	TOP OF STEEL
T.O.W.	TOP OF WALL
T.P.	TOP OF PAVEMENT
T.P.D.	TOILET PAPER DISPENSER
TEL.	TELEPHONE
TER.	TERRAZZO
THK.	THICK
TRANS.	TRANSITION
TRD.	TREAD
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UNF.	UNFINISHED
UR.	URINAL
UTIL.	UTILITY
V.I.F.	VERIFY IN FIELD
VER.	VERIFY
VERT.	VERTICAL
VEST.	VESTIBULE
W.	WEST
W.C.	WATER CLOSET
W.O.	WHERE OCCURS
W.P.	WATERPROOF
W.R.B.	WATER-RESISTIVE BARRIER
W.V.	WOOD VENEER
W/	WITH
W/O	WITHOUT
WD.	WOOD
WSCT.	WAINSCOT
WT.	WEIGHT

SYMBOLS

CENTERLINE
PROPERTY LINE
PROJECTED LINE
HIDDEN LINE
BREAK LINE
MATCH LINE
CONTRACT LIMIT LINE
ELEVATION MARK OR DATUM POINT (LEVEL 12'-0")
WALL TYPE (12)
REVISION MARK
GRID LINES (12 / D)
ROOM NAME AND NUMBER (OFFICE 155)
DOOR NUMBER (201)
WINDOW TYPE (T)
KEYNOTE (1)
SECTION / SECTION IDENTIFICATION / SHEET WHERE SECTION IS DRAWN (K1 / A3.3)
DETAIL / DETAIL IDENTIFICATION / SHEET WHERE DETAIL IS DRAWN (F1 / A3.4)
INTERIOR ELEVATION / ELEVATION IDENTIFICATION / SHEET WHERE ELEVATION IS DRAWN (K10 / K1 / A5.01 / K7 / K4)

EARTH
POROUS FILL
CONCRETE
BRICK
METAL
CONTINUOUS WOOD
SHIM OR NON-CONT. WOOD BLKING
FINISH WOOD
PLYWOOD
GYPSUM WALLBOARD
RIGID INSULATION
BATT INSULATION
ACOUSTIC TILE
PAVING
TILE
GLASS
EXPANSION MATERIAL
SEALANT W/ BACK-UP MATERIAL
CARPET
ALIGN FINISH SURFACES
NORTH ARROW (N)

DSA – GENERAL NOTES

1. A DSA-CERTIFIED CLASS 1 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT.

2. A "DSA-CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CCR.

3. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYEED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS.

4. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

5. CHANGE TO THE APPROVED DRAWNINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.

6. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24 CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IN NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24 CCR, A CONSTRUCTION CHANGE DOCUMENT(CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATION, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24 CCR).

GENERAL CONFORMANCE

STATEMENT OF GENERAL CONFORMANCE

INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS
PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND / OR CONSULTANTS

☒ THE DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET
☐ THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND / OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1. DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME.
   AND
2. COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344 OF TITLE 24, PART 1.

I CERTIFY THAT:

☒ ALL DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET
☐ THIS DRAWING, PAGE OF SPECIFICATIONS / CALCULATIONS

☒ IS / ARE IN GENERAL CONFORMANCE AND
☒ HAVE BEEN COORDINATED

SIGNATURE DATE

ARCHITECT DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

TROY A PENNINGTON

PRINT NAME

C-31285 05.31.2017

LICENSE NUMBER EXPIRATION DATE

SCOPE OF WORK

1. DEMOLITION OF EXISTING CONCRETE WALKS, REMOVAL OF EXISTING LANDSCAPE AREAS, EXISTING EXTERIOR LIGHTING, AS INDICATED ON SHEETS CD1.00, LD1.00.
2. REMOVAL OF EXISTING EXTERIOR BUILDING ELEMENTS TO EXTENT INDICATED, INCLUDING BUT NOT LIMITED TO EXISTING ALUMINUM STOREFRONT SYSTEMS, CEMENT PLASTER SOFFITS, PRE-CAST CONCRETE FASCIAS, LIGHTING ETC., AS INDICATED ON SHEETS AD2.00A, E1.01.
3. REMOVAL OF EXISTING INTERIOR BUILDING ELEMENTS TO EXTENT INDICATED, INCLUDING BUT NOT LIMITED EXISTING WALLS, FLOORING, CEILINGS, LIGHTING ETC., AS INDICATED ON SHEETS AD2.00A, AD2.00B, AD2.10, AD6.00A, AD6.00B, MD2.00, PD3.01, E1.01, E2.00, E3.00, FA1.01
4. REPLACE EXISTING PAD MOUNTED TRANSFORMER, MAIN SWITCHBOARD SERVING EXISTING BUILDING WITH NEW PAD MOUNTED TRANSFORMER, NEW MAIN SWITCHBOARD. RECONNECT ALL EXISTING AND NEW LOADS.
5. 30,560 GSF TWO-STORY STEEL FRAME AND METAL STUD ADDITION TO EXISTING SINGLE STORY STEEL FRAME AND WOOD STUD COLLEGE CENTER BUILDING. PRIMARY EXTERIOR FINISHES INCLUDE ADHERED MASONRY VENEER OVER CONTINUOUS EXTERIOR INSULATION, ALUMINUM COMPOSITE PANELS (MCM) OVER CONTINUOUS EXTERIOR INSULATION, ALUMINUM CURTAINWALL AND STOREFRONT SYSTEMS.
6. MODERNIZATION OF PORTIONS OF EXISTING BUILDING.
7. EXPANSION AND MOVEMENT JOINTS CONNECTING EXISTING BUILDING TO NEW ADDITION.
8. EXTENSION OF EXISTING HYDRONIC SYSTEM TO NEW BUILDING ADDITION, AS INDICATED ON SHEET M1.01.
9. UNDERGROUND EXTENSION OF EXISTING FIBER OPTIC LOOP, AS INDICATED ON SHEET E1.03.
10. SITE UPGRADES / MODIFICATIONS AS INDICATED, INCLUDING BUT NOT LIMITED TO;
    A. A PEDESTRIAN PLAZA ON THE EAST SIDE INCLUDES SEAT WALLS, FURNISHINGS, BOLLARD LIGHTING, AN EXISTING CONCRETE PLANTER AND SHADE TREES IN AN ORCHARD PATTERN.
    B. CONCRETE WALKS PROVIDE EFFICIENT CIRCULATION AND AN ACCESSIBLE PATH OF TRAVEL.
    C. EXISTING TURF SURROUNDING THE BUILDING HAS BEEN REMOVED AND REPLACED WITH LOW WATER USE SHRUBS.
    D. THE IRRIGATION SURROUNDING THE BUILDING HAS BEEN UPDATED TO MEET STATE REGULATIONS.

BID ALTERNATES

UNLESS SPECIFICALLY NOTED AS AN ALTERNATE IN THESE DOCUMENTS, ALL OTHER WORK IN THIS SET OF DOCUMENTS SHALL BE CONSIDERED PART OF THE BASE BID OF THE PROJECT WHETHER NOTED AS SUCH OR NOT. WHERE ANY DOUBT ARISES, WORK SHALL BE CONSIDERED PART OF THE BASE BID.

ALL ITEMS LISTED BELOW SHALL BE ADDITIVE ALTERNATES. THE ORDER OF ALTERNATES SHALL NOT BE CONSTRUED AS AN INDICATION OF PRIORITY OF ALTERNATES.

1. ADDITIONAL MODERNIZATION OF EXISTING OFFICE SPACE TO EXTENT SHOWN BETWEEN GRIDLINES C-D.3 and 1-4 AND AS INDICATED ON SHEET AD2.00B, A2.01B, A2.31B, E2.01B, M2.01B AND OTHER SHEETS.
2. REMOVE EXISTING FLOOR FINISH DOWN TO SLAB AT EXISTING LOBBY (WAITING 105) INDICATED ON SHEET AD2.00B. PREPARATION AND CLEANING EXISTING SLAB TO RECEIVE NEW FINISH. PROVIDE AND INSTALL EPOXY TERRAZZO AS INDICATED ON SHEET A2.01B,
3. SKY LIGHTS, 6 ROUND DOOM TYPE AND 1 SLOPE HORIZONTAL ALUMINUM FRAMED SEE SHEET A2.15B FOR DETAILED INFORMATION
4. CLOCK TOWER AND ADDITIONAL STRUCTURAL FRAMING.
5. REMOVE EXISTING SERVICE WINDOWS, BULLNOSE COUNTERTOP AND WALL FINISHES AT (E) LOBBY AS INDICATED ON SHEET AD2.00B AND A2.01B. PROVIDE AND INSTALL NEW WINDOWS, COUNTERTOP AND FINISHES AS INDICATED ON SHEET A4.03.
6. IN PLACE OF FINISH RF1 AT 1ST FLOOR NORTH LOBBY PROVIDE AND INSTALL EPOXY ERRAZZO SP7 AS INDICATED ON SHEET A2.31A

DEFERRED APPROVALS

1. ELEVATOR GUIDERAILS AND SUPPORT BRACKETS.
2. SKYLIGHTS.
3. WINDOW WALL SYSTEMS / STOREFRONTS WITH SPANS GREATER THAN 10'-0".
4. FIRE SPRINKLER SUPPORT SYSTEMS.

NOTE: SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE DIVISION OF STATE ARCHITECT WITH A NOTATION INDICATING THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN INTENT OF THE BUILDING.

THE SUBMITTAL SHALL BE STAMPED AND SIGNED BY AN ARCHITECT OR A LICENSED DESIGN PROFESSIONAL RESPONSIBLE FOR THE ITEM.

FABRICATION AND INSTALLATION OF DEFERRED APPROVAL ITEMS SHALL NOT COMMENCE UNTIL DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS (IF REQUIRED) FOR THE SYSTEM HAVE BEEN ACCEPTED BY THE ARCHITECT OF RECORD AND APPROVED BY DIVSION OF THE STATE ARCHITECT (DSA). (SEC. 4-317(G), PART 1)

PROJECT TEAM

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ARCHITECTURE
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CONTACT: TROY PENNINGTON

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CONTACT: TOM SCHLEPP

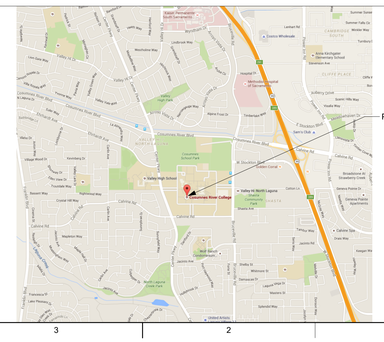
APPLICABLE CODES

2016	CALIFORNIA BUILDING CODE (CBC)
2016	CALIFORNIA ELECTRICAL CODE (CEC)
2016	CALIFORNIA MECHANICAL CODE (CMC)
2016	CALIFORNIA PLUMBING CODE (CPC)
2016	CALIFORNIA ENERGY CODE
2016	CALIFORNIA FIRE CODE (CFC)
2016	CALIFORNIA EXISTING BUILDING CODE
2016	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN)
2010	ADAAG - FEDERAL GUIDELINES (INCLUDED AND AMENDED IN CBC)
NFPA 13-16	STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 24-16	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
NFPA 72-16	NATIONAL FIRE ALARM AND SIGNALING CODE (CALIFORNIA AMENDED)
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS ON SITE PRIOR TO STARTING CONSTRUCTION. SHOULD A DISCREPANCY APPEAR IN THE SPECIFICATIONS OR DRAWINGS, OR IN THE WORK DONE BY OTHERS FROM THE CONTRACT DOCUMENTS THAT AFFECT ANY WORK, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED. IF THE CONTRACTOR PROCEEDS WITH THE WORK AFFECTED WITHOUT INSTRUCTIONS FROM THE ARCHITECT, THE CONTRACTOR SHALL MAKE GOOD ANY RESULTING DAMAGE OR DEFECT TO THE SATISFACTION OF THE ARCHITECT. SHOULD A CONFLICT OCCUR IN OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR WHERE DETAIL REFERENCES ON CONTRACT DRAWINGS HAVE BEEN OMITTED, THE CONTRACTOR IS DEEMED TO HAVE ESTIMATED THE MOST EXPENSIVE MATERIALS AND CONSTRUCTION METHOD INVOLVED, UNLESS A WRITTEN DECISION FROM THE ARCHITECT HAS BEEN OBTAINED WHICH DESCRIBES AN ALTERNATE METHOD AND/OR MATERIALS.
2. THE CONTRACTOR SHALL CONFINE HIS OPERATIONS ON THE SITE TO AREAS PERMITTED BY THE OWNER. THE WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LAWS, LOCAL ORDINANCES, PERMITS AND THE CONTRACT DOCUMENTS. THE JOB SITE SHALL BE MAINTAINED IN A CLEAN, ORDERLY CONDITION FREE OF DEBRIS AND LITTER, AND SHALL NOT BE UNREASONABLY ENCUMBERED WITH MATERIALS OR EQUIPMENT. EACH SUB-CONTRACTOR IMMEDIATELY UPON COMPLETION OF EACH PHASE OF HIS/HER WORK SHALL REMOVE ALL TRASH AND DEBRIS AS A RESULT OF HIS OPERATION.
3. CONTRACTOR SHALL NOTIFY THE ARCHITECT WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS OR DRAWINGS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
4. ALL LEGAL EXIT DOORS SHALL BE OPENABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT. EXIT SIGNS SHALL BE PROVIDED AT ALL EXITS AS REQUIRED BY CODE. ALL DOOR SWINGS SERVING AN OCCUPANT LOAD OF 50 OR GREATER SHALL SWING IN THE DIRECTION OF EXIT.
5. PROVIDE ILLUMINATED EXIT SIGNS PER THE REQUIREMENTS OF 2010 C.B.C., SECTION 1011.
6. PROVIDE FIRE EXTINGUISHERS PER THE REQUIREMENTS OF THE STATE FIRE MARSHAL.
7. CONSTRUCTION SHALL COMPLY WITH THE AIR LEAKAGE REQUIREMENTS OF THE CALIFORNIA ADMINISTRATIVE CODE, TITLE 24, PART 2 CHAPTER 2-53 FOR WINDOWS, DOORS, CAULKING AND SEALING, ELEVATOR SHAFT VENTS AND ALL OTHER APPLICABLE REQUIREMENTS.
8. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
9. DIMENSIONING RULES:
   A. NOTED DIMENSIONS SHALL AT ALL TIMES TAKE PRECEDENCE OVER SCALED DIMENSIONS.
   B. ALL DIMENSIONS OF NEW WORK ARE TO THE FACE OF STUD U.O.N.
   C. ALL DIMENSIONS OF EXISTING WORK ARE TO FACE OF FINISH U.O.N.
   D. CEILING HEIGHT DIMENSIONS ARE FROM TOP OF FLOOR SLAB TO FINISH FACE OF CEILING.
   E. DIMENSIONS NOTED "CLEAR" OR "CLR" MUST BE PRECISELY MAINTAINED.
   F. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT.
   G. +/- VERTICAL DIMENSION ARE FROM THE TOP OF THE FLOOR SLAB DATUM LINE, ESTABLISHED BY THE CONTRACTOR SUBJECT TO THE APPROVAL OF THE OWNER OR ARCHITECT, UNLESS OTHERWISE NOTED.
   H. DIMENSIONS MARKED "A.F.F." ARE ABOVE FINISHED FLOOR MATERIALS. IN CARPETED AREAS, THE TOP OF SLAB IS CONSIDERED TO BE THE FINISH FLOOR.
   I. DIMENSIONS MARKED "V.I.F." SHALL BE "VERIFIED" IN THE FIELD BY THE CONTRACTOR.
   J. ALL DIMENSIONS ARE TO STRUCTURAL COMPONENTS UNLESS OTHERWISE NOTED.
   K. DIMENSIONS LOCATING DOORS ARE TO THE INSIDE EDGE OF JAMB, U.O.N.

VICINITY MAP



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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT TROY PENNINGTON C-31285 05-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

GENERAL INFORMATION

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

G0.10

DSA SUBMITTAL II

SHEET INDEX

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

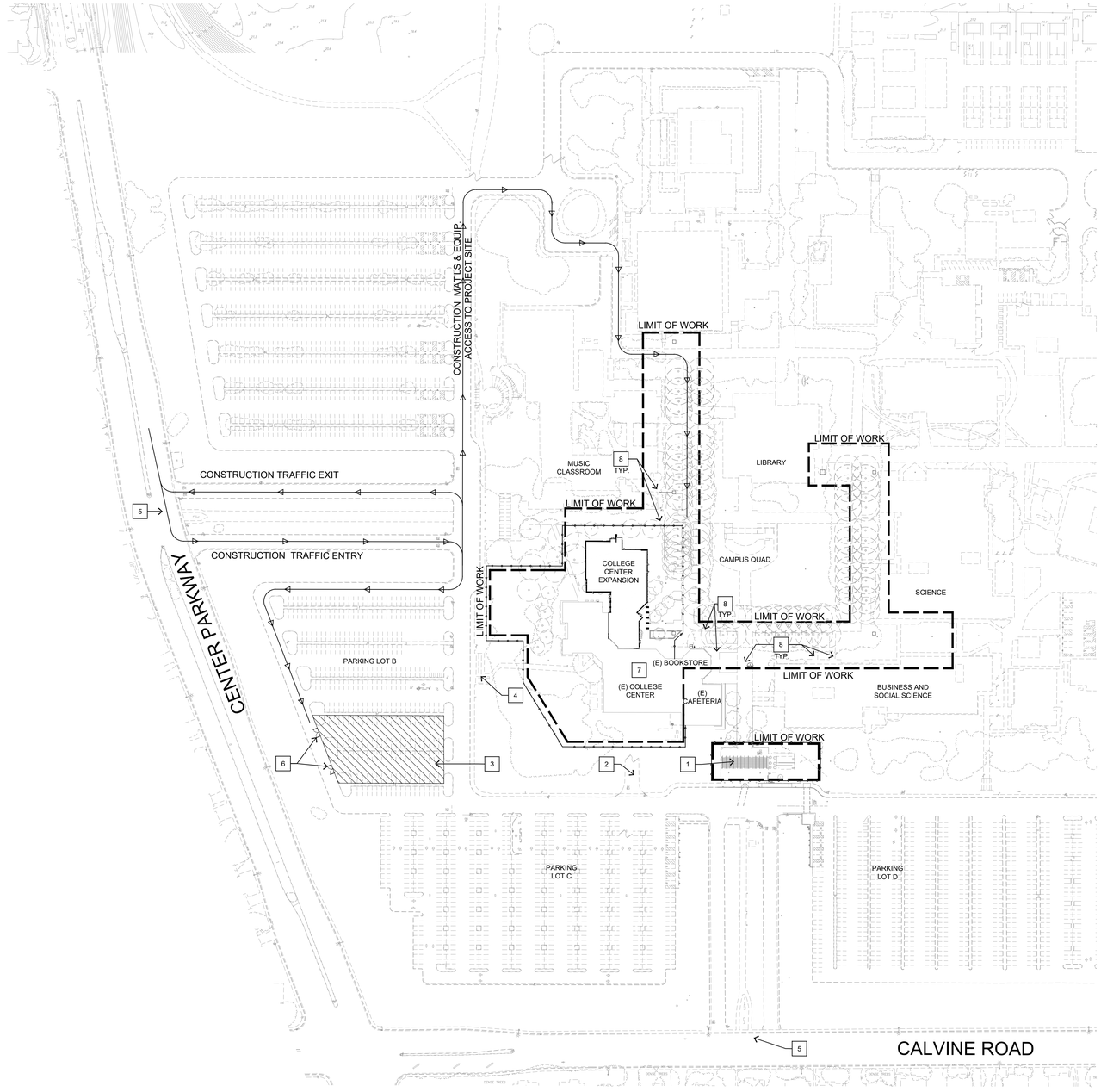
SHEET INDEX

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

G0.11

DSA SUBMITTAL II



CONSTRUCTION ACCESS AND STAGING PLAN K4
1" = 100'-0"

SCALE: 1" = 100'-0"

0 100 200 300 FT

1. MAINTAIN ACCESS TO A MIN. 50% OF MONUMENTAL STAIR FOR PEDESTRIAN ACCESS
2. DELIVERY AREA, VEHICULAR ACCESS MUST BE MAINTAINED AT ALL TIMES
3. (E) PARKING AREA
   REPAIR, REPLACE, AND RE-STRIPE TO PRE-CONSTRUCTION CONDITIONS OR BETTER
4. PREFERRED PEDESTRIAN ACCESS DURING CONSTRUCTION. COORDINATE LIMITED CLOSURES WITH DISTRICT. CLEARLY DELINEATE ALTERNATE ROUTE DURING CLOSURES.
5. CAMPUS INGRESS/ EGRESS
6. CONSTRUCTION ACCESS GATE
7. PEDESTRIAN ACCESS TO COLLEGE CENTER & BOOKSTORE MUST BE MAINTAINED FOR DURATION OF CONSTRUCTION. CLEARLY DELINEATE PATH OF TRAVEL. COORDINATE LIMITED CLOSURES WITH DISTRICT REPRESENTATIVE. CLEARLY DELINEATE ALTERNATE ROUTE DURING CLOSURES.
8. PEDESTRIAN ACCESS TO BUILDINGS ON CAMPUS MUST BE MAINTAINED AT AL TIMES. COORDINATE TEMPORARY CLOSURES DUE TO HYDRONICS AND OTHER UTILITY ROUTING WITH DISTRICT REPRESENTATIVE. CLEARLY DELINEATE ALTERNATE ROUTE DURING TEMPORARY CLOSURES.

CONSTRUCTION TRAFFIC CIRCULATION

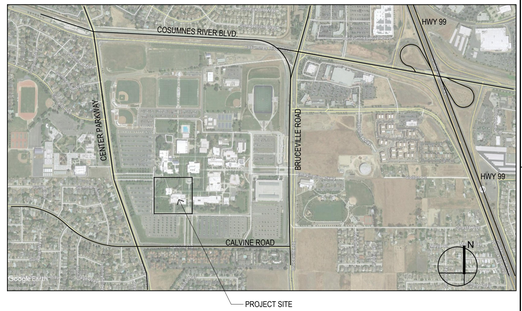
CONSTRUCTION STAGING AND PARKING

CONSTRUCTION FENCE, 6' HIGH CHAIN LINK

NOTES:

1. CONTRACTOR TO RELOCATE OR REMOVE FENCE AS REQUIRED TO MAINTAIN ACCESSIBLE PATH OF TRAVEL TO ALL BUILDING ENTRIES AND EXITS, AND CAMPUS CIRCULATION PATHS DURING CONSTRUCTION. TEMPORARY ACCESS MAY BE NECESSARY.
2. CONTRACTOR SHALL COORDINATE FENCE RELOCATION WITH DISTRICT REPRESENTATIVE.
3. ALTERNATE PATHS FOR TEMPORARY CLOSURES TO ACCESSIBLE PATHS OF TRAVEL AND/OR BUILDING ENTRIES SHALL BE CLEARLY DELINEATED AND SIGNED.
4. ALL LANDSCAPE AREAS WITHIN CONSTRUCTION FENCING MUST BE MAINTAINED AND IRRIGATED DURING CONSTRUCTION. LANDSCAPE AREAS DAMAGED WITHIN FENCING MUST BE TO REPAIRED OR REPLACED TO PRE-CONSTRUCTION CONDITIONS OR BETTER.

LEGEND AND NOTES H1
N.T.S.



VICINITY MAP K1
N.T.S.

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APPROVAL

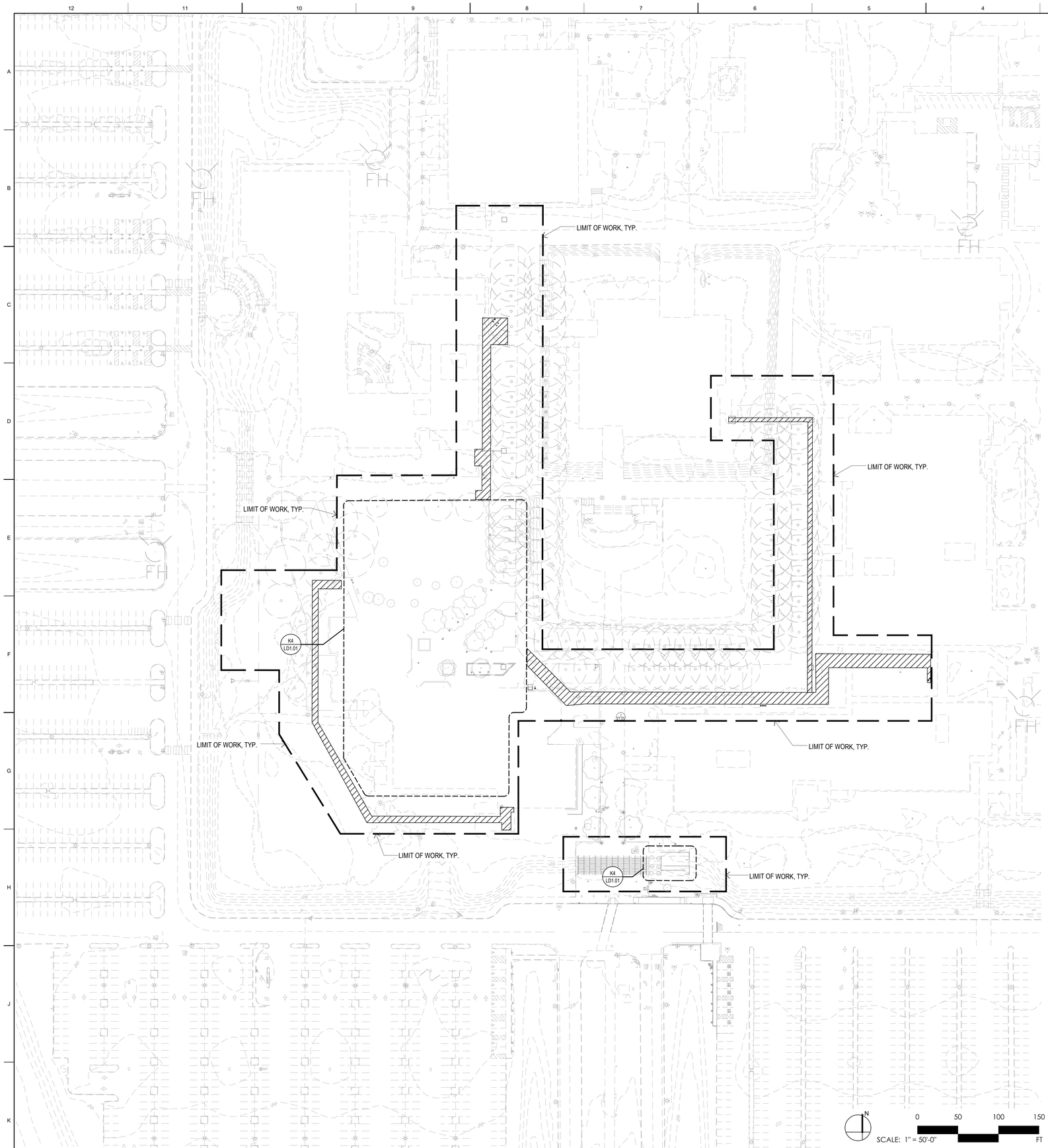
CONSTRUCTION STAGING PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

A0.31

DSA SUBMITTAL



CAMPUS DEMOLITION
1" = 50'-0" K4

LEGEND

PROPOSED ROUTE OF NEW UTILITY PIPING. REPAIR AND REPLACE ALL DAMAGED LANDSCAPE AND IRRIGATION. SEE LIMIT OF WORK NOTES. UTILITY ROUTING MAY VERY FROM PLAN, CONFIRM ROUTING AND EXTENT OF LANDSCAPE DEMOLITION IN FIELD.

LEGEND
N.T.S. B1

LIMIT OF WORK NOTES

1. ARCHITECTURE, LANDSCAPE, CIVIL, ELECTRICAL, PLUMBING AND MECHANICAL PLANS MAY AFFECT AREAS WITHIN THE CAMPUS LIMIT OF WORK. IT IS THE CONTRACTORS RESPONSIBILITY TO REPLACE OR REPAIR ALL AFFECTED HARDSCAPE, IRRIGATION, AND LANDSCAPE AREAS.
2. REPAIR ALL (E) HARDSCPAE DAMAGED AS PART OF DEMOLITION OR CONSTRUCTION. HARDSCAPE MUST MATCH ORIGINAL PATTERN AND FINISH, UNLESS OTHERWISE INSTRUCTED BY CAMPUS REPRESENTATIVE. REPLACED HARDSCAPE MUST MEET ADA SLOPE REQUIREMENTS AND BE SLOPED TO DRAIN.
3. SAW CUT HARDSCAPE AT EXISTING SCORE JOINTS. IF CONCRETE IS DEMOLISHED OR DAMAGED THE REPAIRS MUST SPAN THE EXTENT OF THE ENTIRE EXISTING CONCRETE PANEL BETWEEN SCORE JOINTS.
4. REPLACE ALL (E) SHRUBS AND TURF DAMAGED AS PART OF DEMOLITION OR CONSTRUCTION. CONSULT WITH DISTRICT LANDSCAPE REPRESENTATIVE FOR REPLACEMENT SHRUB SIZE AND SPECIES, AND TURF SPECIES.
5. REPLACE ALL (E) TREES DAMAGED AS PART OF DEMOLITION OR CONSTRUCTION. CONSULT WITH DISTRICT ARBORIST FOR TREE BOX SIZE. THE DISTRICT HAS FINAL SAY ON REPLACEMENT SIZE.
6. REPAIR OR REPLACE ALL IRRIGATION AREAS EFFECTED BY DEMOLITION OR CONSTRUCTION. ALL IRRIGATION TO BE REPAIRED AND RECONNECTED TO MAINLINE AND IRRIGATION CONTROLLER. ALL REPAIRED IRRIGATION AREAS MUST MAINTAIN HEAD TO HEAD COVERAGE.
   ALL LANDSCAPE AREAS ON CAMPUS ARE TO HAVE CONTINUOUS IRRIGATION. DISRUPTION TO IRRIGATION SERVICE TO ANY LANDSCAPE AREA SHALL BE FOR A MAXIMUM OF 48HRS.
7. CONTRACTOR TO COORDINATE DEMOLITION, STAGING, AND CONSTRUCTION PHASING TO MAINTAIN ACCESS TO ALL BUILDINGS ON CAMPUS. PUBLIC ACCESS TO BUILDINGS MUST BE MAINTAINED DURING ALL NORMAL BUSINESS HOURS FOR ENTIRE DURATION OF DEMOLITION, STAGING, AND CONSTRUCTION. AN ACCESSIBLE PATH OF TRAVEL MUST BE MAINTAINED AT ALL TIMES. IF DEMOLITION, STAGING, OR CONSTRUCTION INTERRUPTS AN ACCESSIBLE PATH OF TRAVEL DURING NORMAL BUSINESS HOURS, THE CONTRACTOR IS TO PROVIDE SIGNAGE DIRECTING THE PUBLIC TO AN ALTERNATE ACCESSIBLE PATH OF TRAVEL.

TREE PROTECTION NOTES

1. ALL TREES AND NATURAL AREAS SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION WITH TEMPORARY FENCING.
   TREES SHALL BE PROTECTED BY A 6' TALL CHAIN LINK FENCE MOUNTED ON STEEL POSTS, FIRMLY DRIVEN INTO GROUND OR STANCHIONS FASTENED SECURELY WITH REBAR STAPLES 12" DEEP.
   NATURAL AREAS SHALL BE PROTECTED BY A 6' TALL BRIGHT COLORED (USUALLY ORANGE), SYNTHETIC MESH MATERIAL FENCE OR CHAIN LINK FENCE.
2. PROTECTIVE FENCES SHALL BE INSTALLED PRIOR TO THE START OF ANY SITE PREPARATION WORK AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT AND BE REMOVED UPON COMPLETION OF CONSTRUCTION ACTIVITIES. FENCES MAY BE TEMPORALLY REMOVED TO CLEAR UNDERSTORY TURF AND SHRUBS WHERE INDICATED ON PLAN.
3. EROSION AND SEDIMENTATION CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILD-UP WITHIN TREE DRIP LINES.
4. PROTECTIVE FENCES SHALL SURROUND THE TREES OR GROUP OF TREES, AND WILL BE LOCATED AT THE OUTERMOST LIMIT OF BRANCHES (DRIP LINE). FOR NATURAL AREAS, PROTECTIVE FENCES SHALL FOLLOW THE LIMIT OF CONSTRUCTION LINE, IN ORDER TO PREVENT THE FOLLOWING:
   A. SOIL COMPACTION IN THE ROOT ZONE AREA RESULTING FROM VEHICULAR TRAFFIC OR STORAGE OF EQUIPMENT OR MATERIALS;
   B. ROOT ZONE DISTURBANCES DUE TO GRADE CHANGES (GREATER THAN 6 INCHES CUT OR FILL); TR TRENCHING NOT REVIEWED AND AUTHORIZED BY THE CITY ABORIST;
   C. WOUNDS TO TRUNK, LIMBS OR EXPOSED ROOTS BY MECHANICAL EQUIPMENT;
   D. OTHER ACTIVITIES DETRIMENTAL TO TREES SUCH AS CHEMICAL STORAGE, CEMENT TRUCK CLEANING, AND FIRES.
5. EXCEPTIONS TO INSTALLING FENCES AT TREE DRIP LINES MAY BE PERMITTED IN THE FOLLOWING CASES:
   A. WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELL, OR OTHER SUCH SITE DEVELOPMENT, ERECT THE FENCE APPROXIMATELY 2 TO 4 FEET BEYOND THE AREA DISTURBED;
   B. WHERE PERMEABLE PAVING IS TO BE INSTALLED WITHIN THE DRIP LINE OF A TREE, ERECT FENCE AT THE OUTER LIMITS OF THE PERMEABLE PAVING AREA (PRIOR TO SITE GRADING) GRADE AREA SEPARATELY JUST PRIOR TO PAVING INSTALLATION TO MINIMIZE ROOT DAMAGE;
   C. WHERE TREES ARE CLOSE TO PROPOSED BUILDINGS, ERECT THE FENCE TO ALLOW 6 TO 10 FEET OF WORK SPACE BETWEEN THE FENCE AND THE BUILDING;
   D. WHERE SEVERE SPACE CONSTRAINTS EXIST DUE TO TRACT SIZE, OR OTHER SPECIAL REQUIREMENTS, CONTACT THE CITY ARBORIST OR LANDSCAPE ARCHITECT TO DISCUSS ALTERNATIVES.

   SPECIAL NOTE: FOR THE PROTECTION OF NATURAL AREAS, NO EXCEPTIONS TO INSTALLING FENCES AT THE LIMIT OF CONSTRUCTION LINE WILL BE PERMITTED.
6. WHERE ANY OF THE ABOVE EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN 4 FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF 8 FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE REDUCED FENCING PROVIDED.
7. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
8. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN 2 DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
9. UNDERGROUND FACILITES AND TRENCHES, (ELEC. UTILITIES SERVICE, SANITARY SEWER, STORM DRAINAGE LINES) SHALL BE CONSOLIDATED, TO THE EXTENT FEASIBLE, AND LOCATED TO MINIMIZE IMPACT UPON TREE ROOT SYSTEMS. ANY TRENCHING REQUIRED WITHIN THE TREE DRIPLINE SHALL BE AS FAR FROM THE TREE TRUNK AS POSSIBLE AND SHALL BE EXCAVATED BY HAND OR PNEUMATIC EXCAVATOR TO MINIMIZE IMPACT TO ROOTS.
10. ROOTS ¾" OR GREATER IN SIZE ENCOUNTERED DURING TRENCHING SHALL BE CLEANLY HAND PRUNED TO REDUCE LOSS OF MOISTURE TO THE TREE. IF ROOTS GREATER THAN 1-1/2" ARE ENCOUNTERED, CONSULT WITH DISTRICT ARBORIST.
11. NO LANDSCAPE TOPSOIL DRESSING GREATER THAN 4 INCHES SHALL BE PERMITTED WITHIN THE DRIP LINE OF TREES. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
12. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE DAMAGE MAY OCCUR (RIPPING OF BRANCHES, ETC.).
13. THE DISTRICT ARBORIST HAS THE AUTHORITY TO REQUIRE ADDITIONAL TREE PROTECTION BEFORE OR DURING CONSTRUCTION.
14. DEVIATIONS FROM THE ABOVE NOTES MAY BE CONSIDERED ORDINANCE VIOLATIONS IF THERE IS SUBSTANTIAL NONCOMPLIANCE OR IF A TREE SUSTAINS DAMAGE AS A RESULT.
15. EXISTING TREES TO BE RETAINED AND PROTECTED AS INDICATED ON THE SITE PLAN.

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

ARCHITECT'S STAMP

APPROVAL

IDENTIFICATION STAMP
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AC____ FLS____ SS____
DATE ____

OVERALL LANDSCAPE DEMOLITION

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

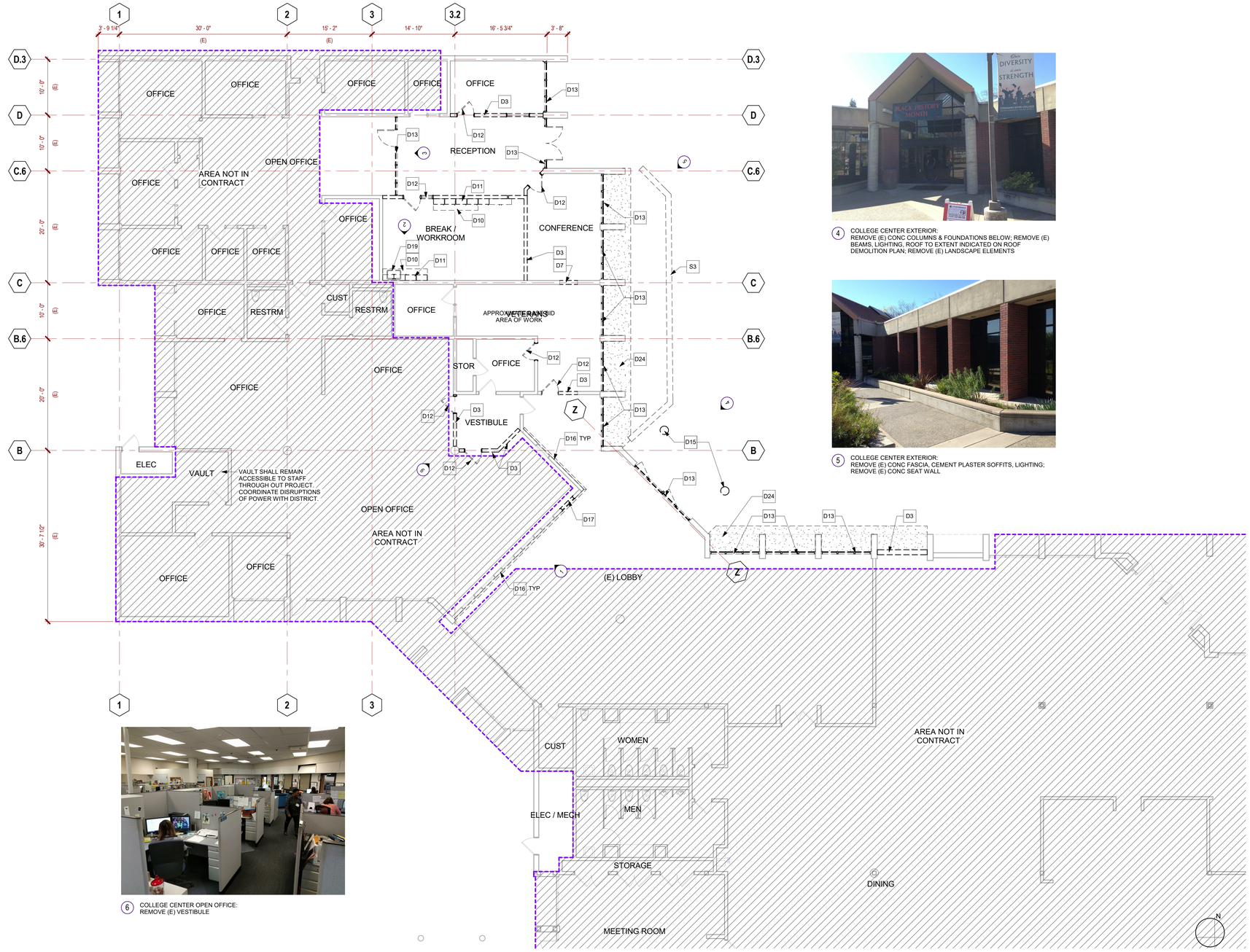
LD1.00

DSA SUBMITTAL

1 COLLEGE CENTER SERVICE WINDOWS:
BASE BID: REMOVE (E) LAMINATE SKIRT, WALLCOVERING ABOVE COUNTERTOP, WOOD TRIM, SIGNAGE
ADD ALT #X: BASE BID PLUS REMOVE (E) BULLNOSE COUNTERTOP, SERVICE WINDOWS

2 COLLEGE CENTER BREAK / WORKROOM:
REMOVE (E) COUNTERTOP, CASEWORK, PLUMBING, ETC.
CAP PLUMBING BEHIND WALL & FINISH WALL TO MATCH ADJACENT WALL SURFACE

3 COLLEGE CENTER OPEN OFFICE:
REMOVE (E) ALUMINUM STOREFRONT PARTITION; REPAIR ACOUSTICAL CEILING GRID AS REQ'D.



4 COLLEGE CENTER EXTERIOR:
REMOVE (E) CONC COLUMNS & FOUNDATIONS BELOW; REMOVE (E) BEAMS, LIGHTING, ROOF TO EXTENT INDICATED ON ROOF DEMOLITION PLAN; REMOVE (E) LANDSCAPE ELEMENTS

5 COLLEGE CENTER EXTERIOR:
REMOVE (E) CONC FASCIA, CEMENT PLASTER SOFFITS, LIGHTING; REMOVE (E) CONC SEAT WALL

6 COLLEGE CENTER OPEN OFFICE:
REMOVE (E) VESTIBULE

PARTIAL FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"
K3

GENERAL DEMOLITION NOTES

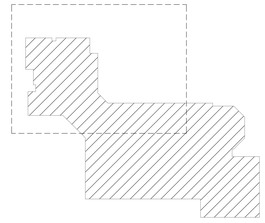
1. THE AREA OF WORK SHOWN IS APPROXIMATE. WORK OUTSIDE THE AREA OF WORK MAY BE REQUIRED FOR A COMPLETE PROJECT. ANY WORK REQUIRED OUTSIDE THE AREA OF WORK TO COMPLETE THIS PROJECT SHALL BE CONSIDERED A PART OF THIS CONTRACT.
2. CONTRACTOR TO NOTIFY OWNER'S REPRESENTATIVE OF ANY CHANGES IN THE DEMOLITION PROCESS/SCOPE OF DEMOLITION.
3. PRIOR TO DEMOLITION, CONTRACTOR TO VERIFY COMPLIANCE WITH LOCAL, STATE, AND FEDERAL AIR QUALITY AGENCIES. HOWEVER, HAZARDOUS MATERIALS ABATEMENT IS OUTSIDE THE SCOPE OF THIS PROJECT. IF ANY SUSPECTED HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION, STOP WORK AND NOTIFY COLLEGE AND ARCHITECT IMMEDIATELY.
4. CONTRACTOR TO PATCH AND REPAIR ALL HOLES AND CRACKS PRIOR TO START OF NEW WORK, INCLUDING BUT NOT LIMITED TO THOSE LEFT BY ITEMS BEING REMOVED.
5. REMOVE ALL EXISTING SWITCHPLATE AND RECEPTACLE COVERS IN THE AREA OF WORK AND PREPARE BOXES TO RECEIVE NEW SWITCHPLATES / RECEPTACLE COVERS.
6. IF A WALL INDICATED TO BE REMOVED CONTAINS A CONCRETE CURB, THE CONCRETE CURB IS TO BE ASSUMED TO BE REMOVED, AS WELL.
7. REMOVE EXISTING CARPET IN AREA OF WORK, UNLESS OTHERWISE NOTED.

LEGEND

- AREA NOT IN CONTRACT
- EXISTING FLOOR / CURB
- EXISTING TILE FLOORING

DEMOLITION KEYNOTES

- D3 REMOVE PORTION OF EXISTING WALL TO EXTENT INDICATED
- D7 REMOVE PORTION OF EXISTING WALL AS REQUIRED FOR NEW DOOR OPENING
- D10 REMOVE EXISTING COUNTERTOP & CASEWORK BELOW
- D11 REMOVE EXISTING WALL-MOUNTED CASEWORK
- D12 REMOVE EXISTING DOOR AND FRAME
- D13 REMOVE EXISTING STOREFRONT SYSTEM AND GLAZING. SALVAGE AND TURN OVER TO DISTRICT.
- D15 REMOVE EXISTING CONCRETE COLUMN - SEE STRUCTURAL FOR ADDITIONAL INFORMATION.
- D16 REMOVE EXISTING WALLCOVERING
- D17 REMOVE EXISTING COUNTERTOP AND LAMINATE PANELS BELOW COUNTERTOP, WINDOWS AND SURROUNDING TRIM AT WINDOWS TO REMAIN
- D19 REMOVE EXISTING SINK; PREPARE LINES FOR NEW SINK INSTALLATION - SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
- D24 REMOVE EXISTING CONCRETE PAVING / MOW STRIP TO EXTENT INDICATED
- S3 REMOVE EXISTING CONCRETE SEAT WALL TO EXTENT INDICATED



KEY PLAN
1" = 80'-0"

LPAS
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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

REGISTERED ARCHITECT TROY PENNINGTON C-31285 5/31/19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

PARTIAL FIRST FLOOR DEMO PLAN - BASE BID

PROJECT NO: 201-0065

DATE: 01.15.2018

SHEET NO:

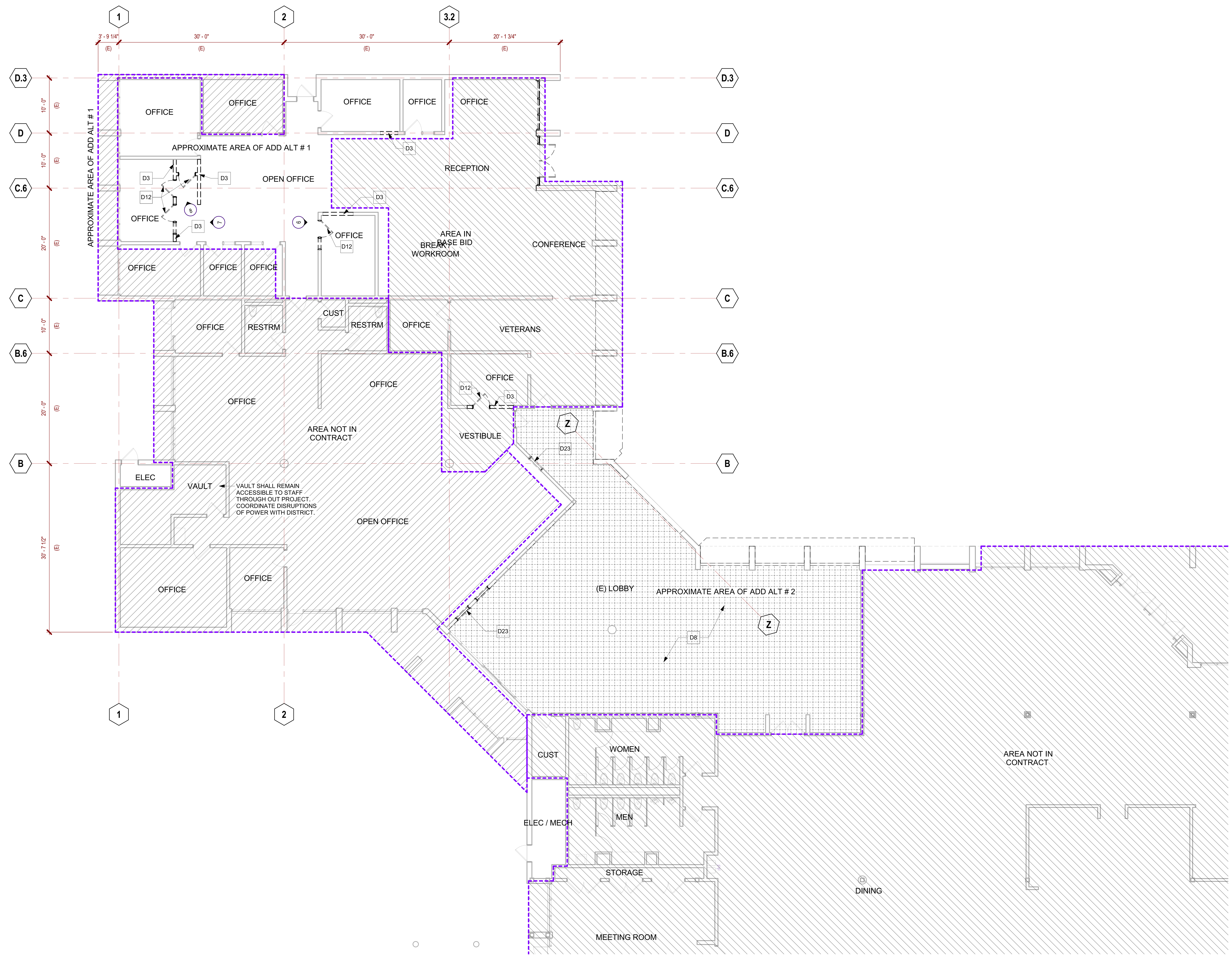
AD2.00A

DSA SUBMITTAL II

7 COLLEGE CENTER (E) PRESIDENT'S SUITE:
ADD ALT #1: BASE BID PLUS REMOVE (E) WALLS, DOORS, ETC. AS INDICATED BELOW

8 COLLEGE CENTER (E) PRESIDENT'S SUITE:
ADD ALT #1: BASE BID PLUS REMOVE (E) WALLS, DOORS, ETC. AS INDICATED BELOW

9 COLLEGE CENTER (E) PRESIDENT'S SUITE:
ADD ALT #1: BASE BID PLUS REMOVE (E) WALLS, DOORS, ETC. AS INDICATED BELOW



PARTIAL FIRST FLOOR DEMOLITION PLAN - ADD ALT
1/8" = 1'-0"
K3

GENERAL DEMOLITION NOTES

1. THE AREA OF WORK SHOWN IS APPROXIMATE. WORK OUTSIDE THE AREA OF WORK MAY BE REQUIRED FOR A COMPLETE PROJECT. ANY WORK REQUIRED OUTSIDE THE AREA OF WORK TO COMPLETE THIS PROJECT SHALL BE CONSIDERED A PART OF THIS CONTRACT.
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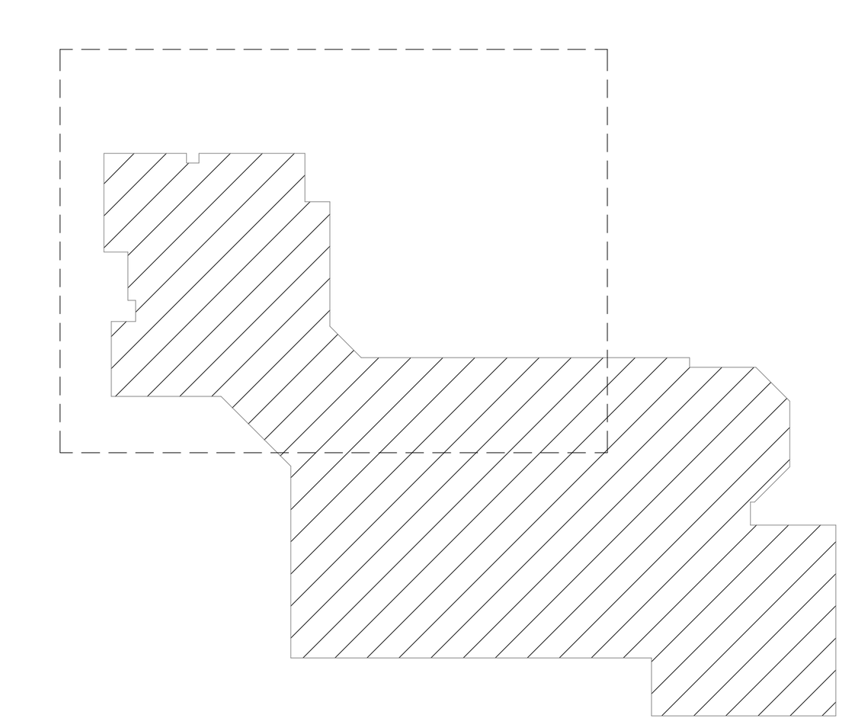
7. REMOVE EXISTING CARPET IN AREA OF WORK, UNLESS OTHERWISE NOTED.

LEGEND

- AREA NOT IN CONTRACT
- EXISTING FLOOR / CURB
- EXISTING TILE FLOORING TO BE REMOVED

DEMOLITION KEYNOTES

D3	REMOVE PORTION OF EXISTING WALL TO EXTENT INDICATED
D8	REMOVE EXISTING TILE FLOORING - PREPARE FLOOR TO RECEIVE NEW TILE
D12	REMOVE EXISTING DOOR AND FRAME
D23	ADD ALT #5 REMOVE EXISTING SERVICE WINDOWS, TYP OF (6)



KEY PLAN
1" = 80'-0"

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COSUMNES RIVER COLLEGE

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CONSULTANT

PARTIAL FIRST FLOOR DEMOLITION PLAN - ADD ALT

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
AD2.00B

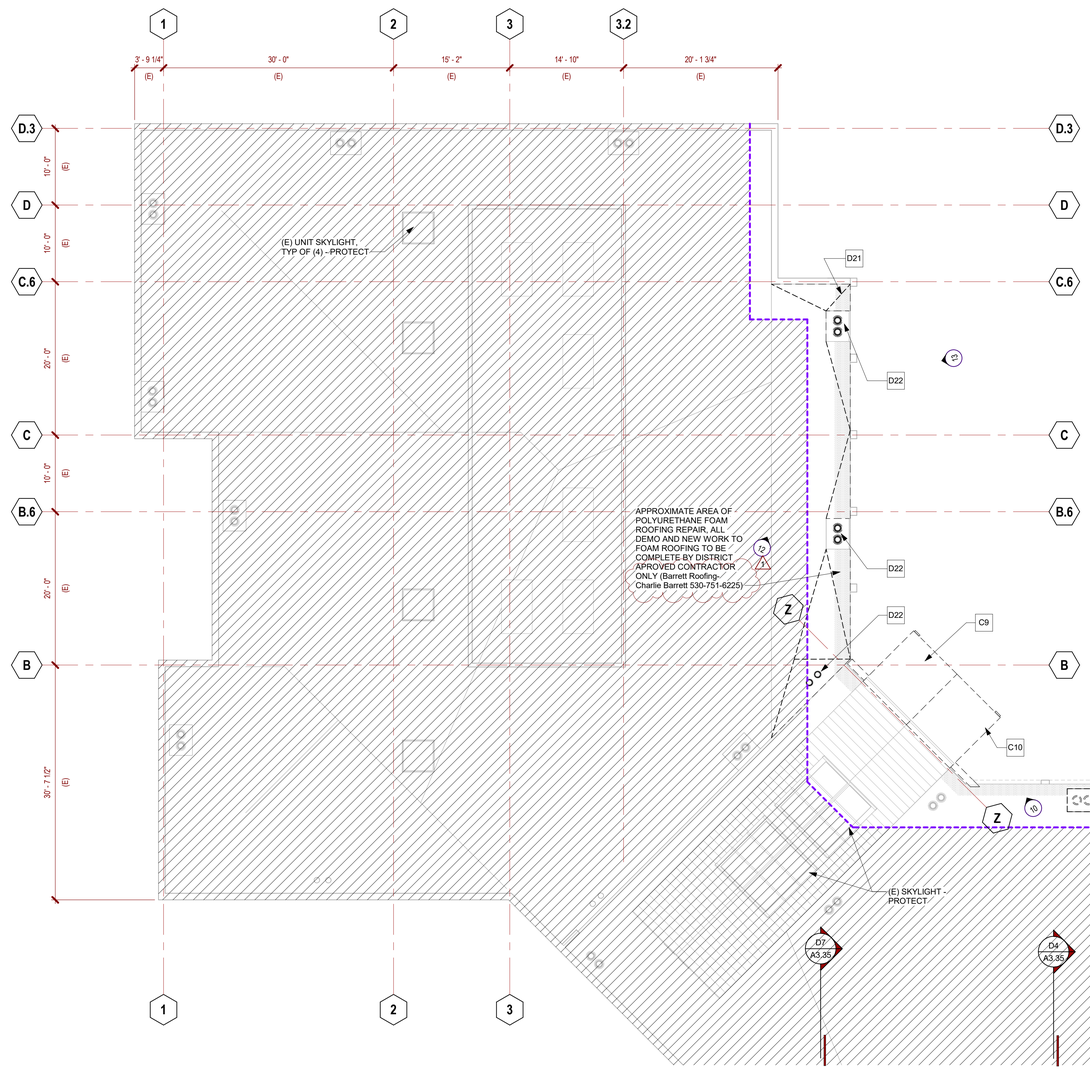
DSA SUBMITTAL II

10 COLLEGE CENTER ROOF:
REMOVE PORTION OF (E) METAL ROOF TO EXTENT INDICATED ON PLAN BELOW; PREPARE (E) SINGLE PLY MEMBRANE ROOFING FOR TIE-IN TO MOVEMENT JOINT

11 COLLEGE CENTER PRE-CAST FASCIA:
REMOVE PRE-CAST CONCRETE FASCIA TO EXTENT INDICATED BELOW

12 COLLEGE CENTER ROOF:
REMOVE PORTION OF (E) POLYURETHANE FOAM ROOFING TO EXTENT INDICATED ON PLAN BELOW; PREPARE FOR TIE-IN TO MOVEMENT JOINT

13 COLLEGE CENTER PRE-CAST FASCIA:
REMOVE PRE-CAST CONCRETE FASCIA TO EXTENT INDICATED BELOW



PARTIAL ROOF DEMOLITION PLAN K3
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

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4. CONTRACTOR TO PATCH AND REPAIR ALL HOLES AND CRACKS PRIOR TO START OF NEW WORK, INCLUDING BUT NOT LIMITED TO THOSE LEFT BY ITEMS BEING REMOVED.
5. MODIFICATIONS / TIE-INS TO EXISTING POLYURETHANE FOAM ROOFING SHALL BE PERFORMED BY BARRET'S ROOFING; CONTACT CHARLIE BARRET (530) 751-6225.
6. UNLESS SPECIFICALLY NOTED AS ADD ALTERNATE, WORK SHALL BE CONSIDERED PART OF THE BASE BID.
7. PROTECT ALL EXISTING SKYLIGHTS FROM DAMAGE BY DEMOLITION / CONSTRUCTION ACTIVITIES. ERECT PROTECTIVE BARRIERS TO PREVENT INJURIES TO PERSONNEL.

LEGEND

AREA NOT IN CONTRACT

AREA OF ROOFING TO BE REMOVED

DEMOLITION KEYNOTES

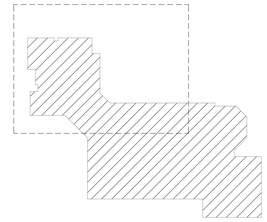
C9 REMOVE PORTION OF EXISTING ROOF - USE CAUTION TO MAINTAIN PORTION OF ROOF INDICATED TO REMAIN IN GOOD CONDITION.

C10 REMOVE EXISTING BEAMS BACK TO FACE OF EXISTING EXTERIOR WALL.

D21 REMOVE EXISTING ROOFING TO EXTENT INDICATED DOWN TO PLYWD DECK. PROTECT BUILDING BELOW FROM ELEMENTS UNTIL NEW ROOFING IS INSTALLED.

D22 REMOVE EXISTING ROOF DRAINS; SALVAGE FOR RE-INSTALLATION.

D25 ROOF DRAIN TO REMAIN



KEY PLAN
1" = 80'-0"

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COSUMNES RIVER COLLEGE

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TROY PENNINGTON
C-31285
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

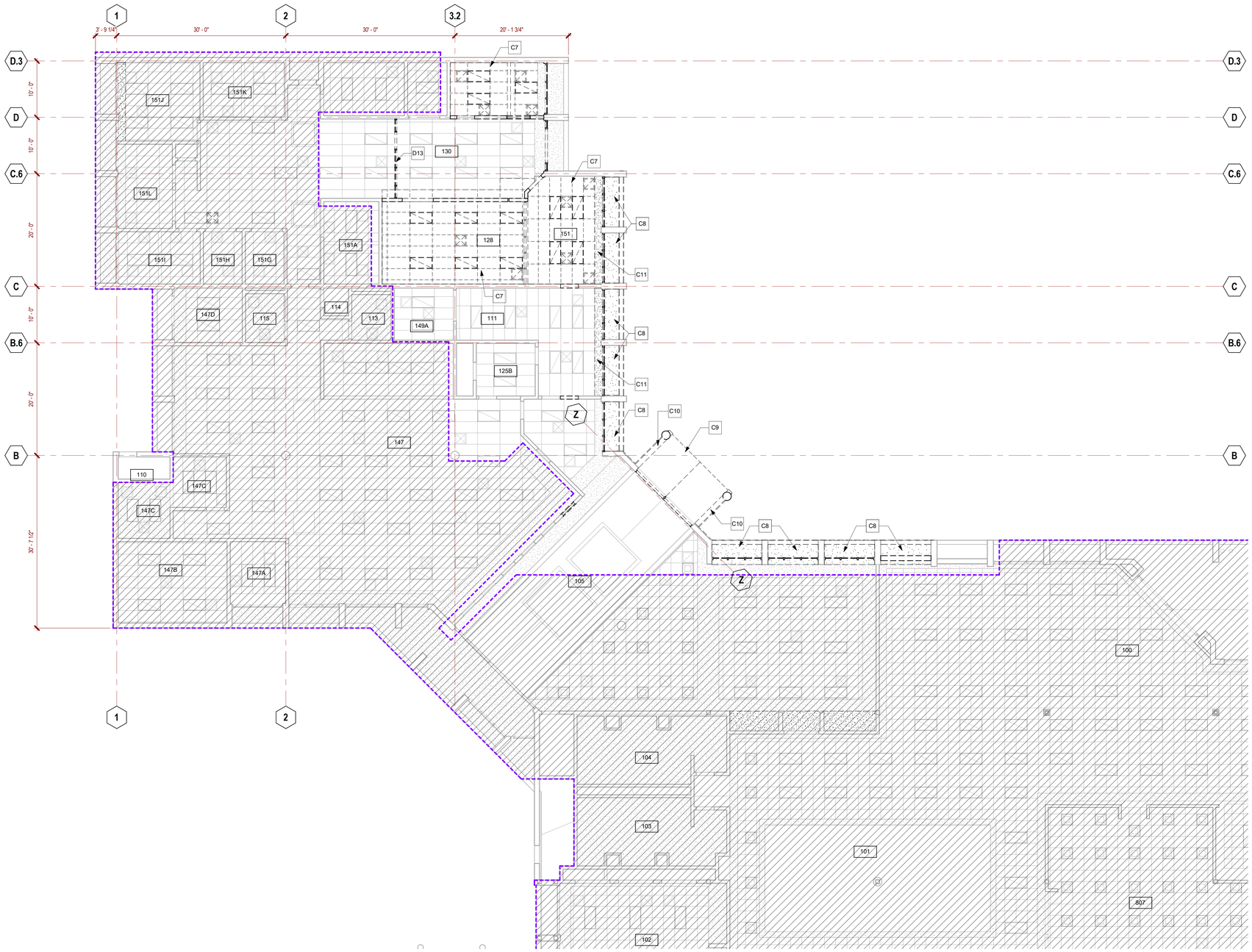
PARTIAL ROOF DEMOLITION PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

AD2.10

DSA SUBMITTAL II



CEILING DEMOLITION GENERAL NOTES

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5. SEE DEMOLITION FLOOR PLAN FOR ADDITIONAL INFORMATION.
6. REPAIR EXISTING CEILING GRID WHERE PARTIAL HEIGHT WALLS ARE REMOVED AND EXISTING GRID IS OTHERWISE CONTINUOUS.
7. WHERE EXISTING DIFFUSERS INDICATED TO BE REMOVED, MAINTAIN EXISTING AIR TERMINAL. RELOCATE AS REQUIRED BY MODERNIZATION PLAN.

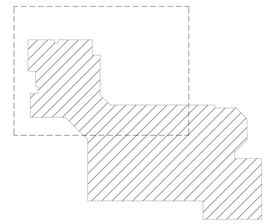
CEILING LEGEND

- AREA NOT IN CONTRACT
- EXISTING ACOUSTICAL CEILING TO BE REMOVED
- EXISTING LAY-IN FIXTURE TO BE REMOVED
- EXISTING DIFFUSER TO BE REMOVED

DEMOLITION KEYNOTES

- C7 REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING
- C8 REMOVE EXISTING CEMENT PLASTER SOFFIT AND FRAMING
- C9 REMOVE PORTION OF EXISTING ROOF - USE CAUTION TO MAINTAIN PORTION OF ROOF INDICATED TO REMAIN IN GOOD CONDITION.
- C10 REMOVE EXISTING BEAMS BACK TO FACE OF EXISTING EXTERIOR WALL.
- C11 REMOVE EXISTING GYPSUM BOARD SOFFIT AND FRAMING
- D13 REMOVE EXISTING STOREFRONT SYSTEM AND GLAZING. SALVAGE AND TURN OVER TO DISTRICT.

PARTIAL FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN - BASE BID | K3
1/8" = 1'-0"



KEY PLAN
1" = 80'-0"

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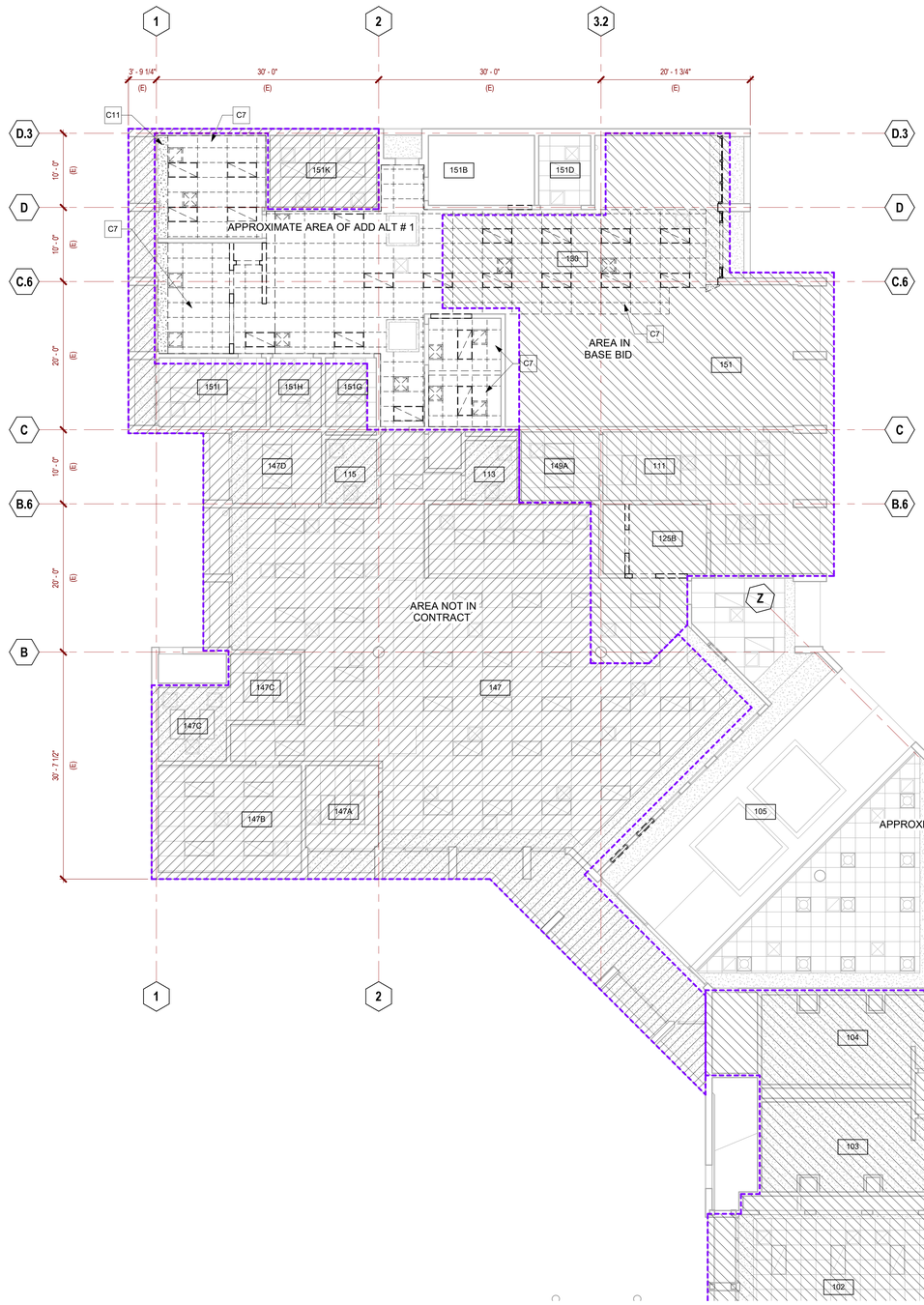
FIRST FLOOR RCP DEMO PLAN - BASE BID

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
AD6.00A

DSA SUBMITTAL II



CEILING DEMOLITION GENERAL NOTES

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5. SEE DEMOLITION FLOOR PLAN FOR ADDITIONAL INFORMATION.
6. REPAIR EXISTING CEILING GRID WHERE PARTIAL HEIGHT WALLS ARE REMOVED AND EXISTING GRID IS OTHERWISE CONTINUOUS.
7. WHERE EXISTING DIFFUSERS INDICATED TO BE REMOVED, MAINTAIN EXISTING AIR TERMINAL. RELOCATE AS REQUIRED BY MODERNIZATION PLAN.

CEILING LEGEND

- AREA NOT IN CONTRACT
- EXISTING ACOUSTICAL CEILING TO BE REMOVED
- EXISTING LAY-IN FIXTURE TO BE REMOVED
- EXISTING DIFFUSER TO BE REMOVED

DEMOLITION KEYNOTES

- C7 REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING
- C11 REMOVE EXISTING GYPSUM BOARD SOFFIT AND FRAMING

PARTIAL FIRST FLOOR REFLECTED CEILING DEMOLITION PLAN - ADD ALT | K3
1/8" = 1'-0"

KEY PLAN
1" = 80'-0"

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
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CONSULTANT

FIRST FLOOR RCP DEMO PLAN - ADD ALT

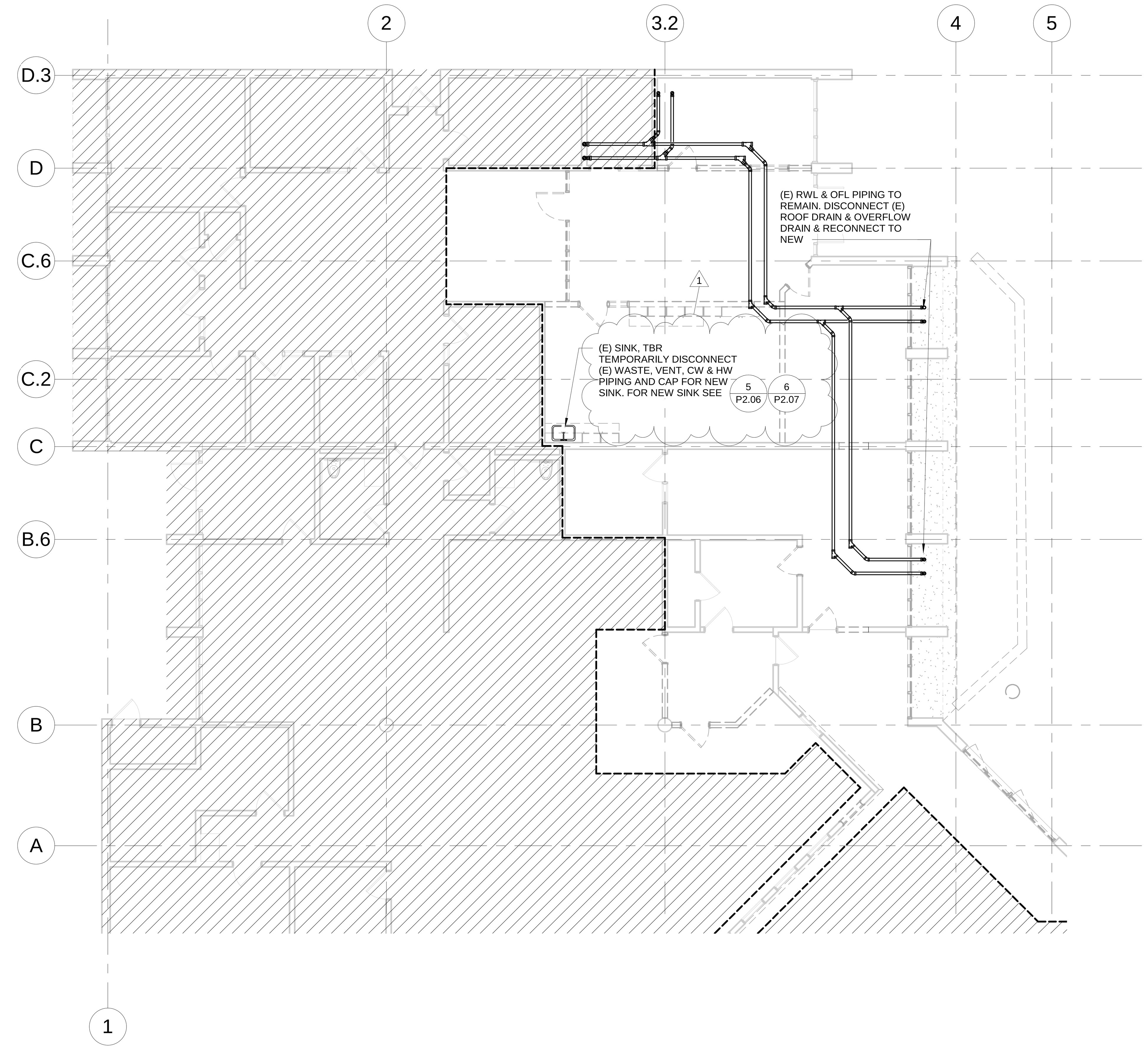
PROJECT NO: 201-0065

DATE: 01.15.2018

SHEET NO:

AD6.00B 1

DSA SUBMITTAL II



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

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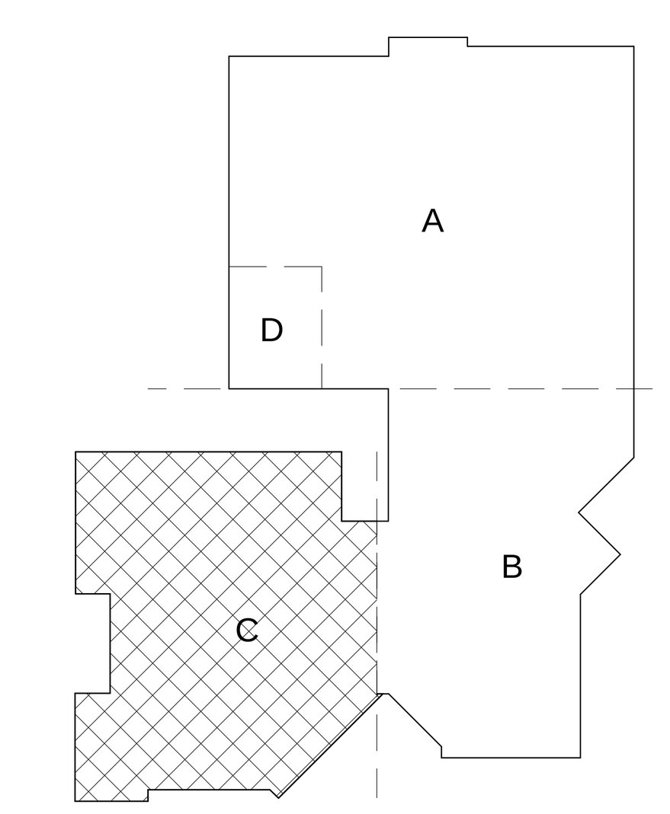

KEY PLAN

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.
2431 CAPITOL AVENUE
Sacramento, CA 95816
(916) 325-1065
FAX: (916) 325-1075
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	15247
Project Manager:	NS	Plot Date:	
Project Drafter:	WR	Login:	

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/19
MECHANICAL
STATE OF CALIFORNIA

PARTIAL PLUMBING DEMOLITION PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

PD2.01

DSA RESUBMITTAL II

DEMOLITION ELECTRICAL SITE PLAN | 1
1" = 20'-0"

KEY NOTES

1. EXISTING LIGHTING POLE TO BE REMOVED. INCOMING CIRCUITS TO THE POLE SHALL BE REMOVED BACK TO THE NEAREST PULL BOX.
2. EXISTING LIGHTING FIXTURE TO BE REPLACED. THE INCOMING CIRCUITS TO BE DISCONNECTED AND PRESERVED FOR RECONNECTION TO NEW FIXTURE.
3. EXISTING IRRIGATION SYSTEM CONTROLS TO BE RELOCATED BY OTHERS. REMOVE (E) CONDUCTORS BACK TO SOURCE. RECONNECT RELOCATED IRRIGATION CONTROLLER PER SHEET E1.03, KEY NOTE 8.
4. DISCONNECT AND REMOVE EXISTING 2000A, 120/208V, MAIN SWITCHBOARD TO BE REPLACED WITH NEW 3000A, 120/208V, MAIN SWITCHBOARD. CAMPUS IS REPLACING SOME PRIMARY ELECTRICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE COLLEGE CENTER SHUTDOWN WITH CAMPUS WIDE SHUTDOWN TO MINIMIZE CAMPUS OUTAGE (1)
5. DISCONNECT AND REMOVE EXISTING 500kVA, 12/0.208 kV, PAD MOUNTED TRANSFORMER TO BE REPLACED WITH NEW 1000kVA, 12/0.208 kV TRANSFORMER.
6. DISCONNECT EXISTING LIGHT FIXTURE AND RELOCATE PER KEY NOTE 13, SHEET E103.
7. EXISTING ATM.
8. RESET EXISTING POLE LIGHT AND UNDERGROUND PULL BOX PER CIVIL DRAWINGS, SHEET C1.00, GRADING KEYNOTE 2. DISCONNECT EXISTING POLE LIGHT AND UNDERGROUND PULL BOX AS REQUIRED AND RECONNECT PER ENLARGED ELECTRICAL SITE PLAN, SHEET E1.03, KEYNOTE 20.

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO NOT DAMAGE TREE ROOTS. REPLACE EXISTING AREAS DISTURBED BACK TO ORIGINAL CONDITION.

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LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER
JINGPEI ZHANG
E 16243
EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

DEMOLITION ELECTRICAL SITE PLAN

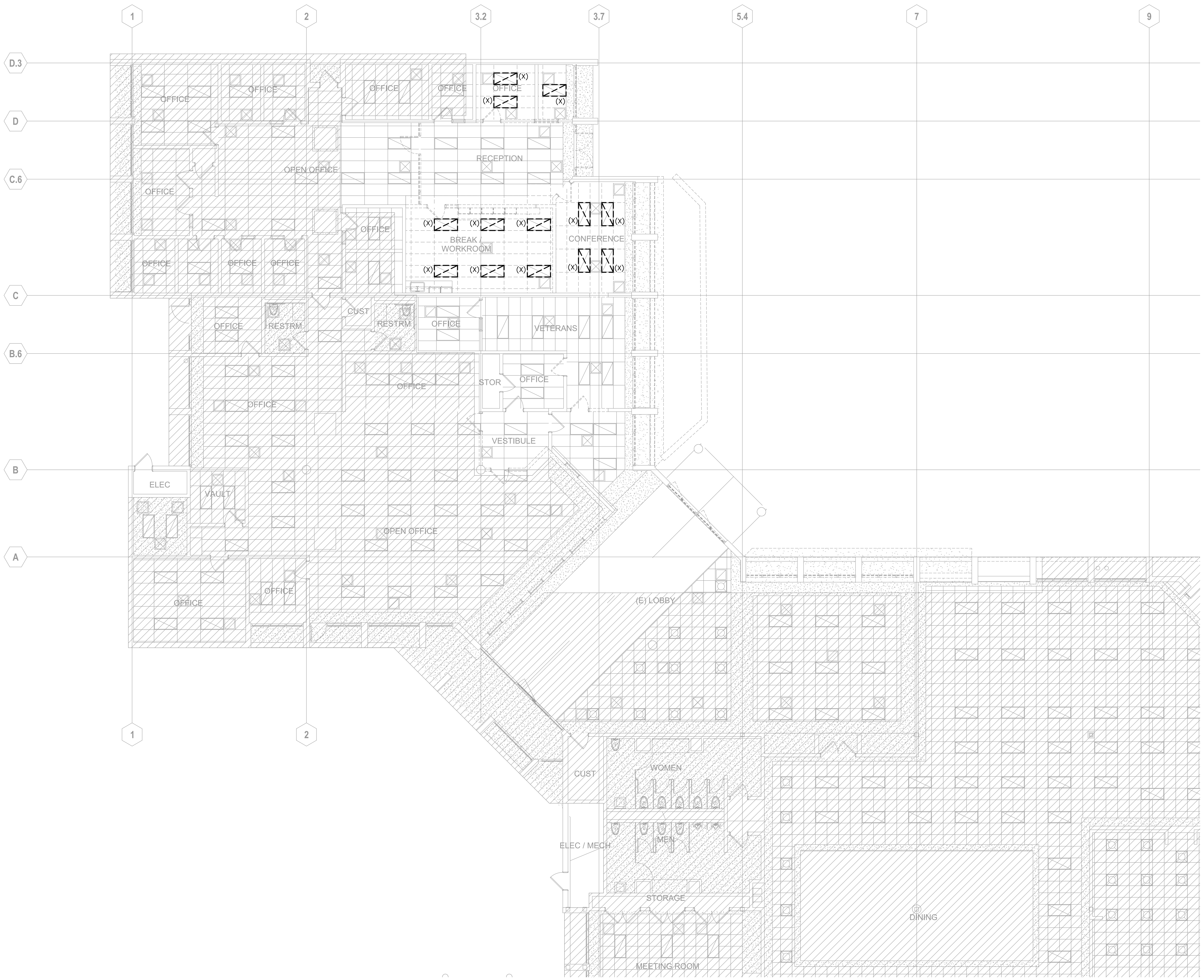
PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

ED1.01

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



BASE BID - 1ST FLOOR DEMOLITION LIGHTING PLAN 1
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING LIGHT FIXTURES IN DEMOLITION AREA AND ASSOCIATED CONTROLS IF NOT REQUIRED FOR REMAINING LIGHT FIXTURES. MAINTAIN CIRCUIT AND CONTROL CONTINUITY FOR REMAINING LIGHTS FIXTURES.
3. REMOVE EXISTING RECEPTACLES, POWER AND LOW VOLTAGE IN DEMOLITION AREA. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING DEVICES.

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APPROVAL

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REGISTERED PROFESSIONAL ENGINEER
E16243
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1ST FLOOR DEMOLITION LIGHTING PLAN

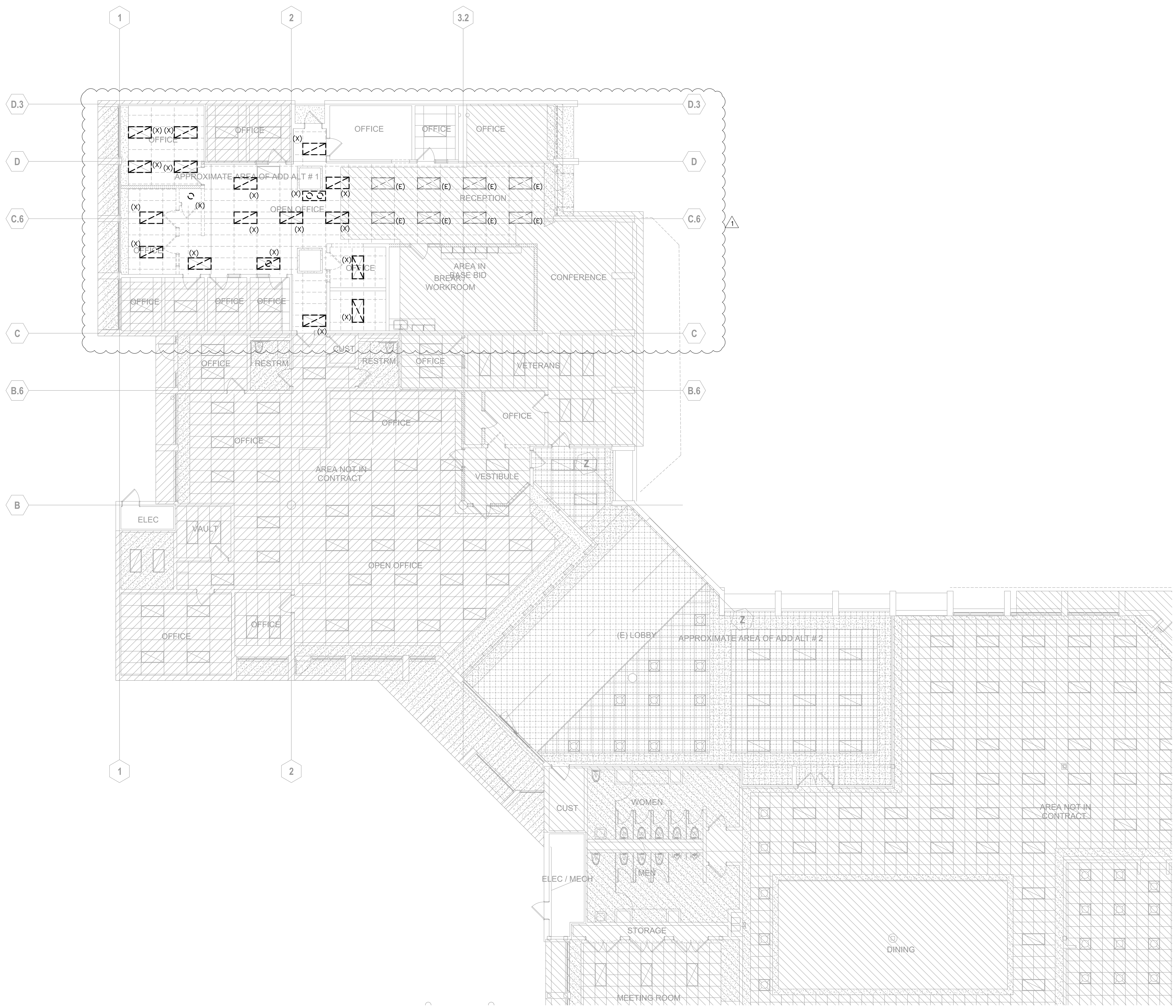
PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

ED2.00A

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



BID ALTERNATE #1 - 1ST FLOOR DEMOLITION LIGHTING PLAN 1
1/8" = 1'-0"

GENERAL NOTES

1. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. REMOVE EXISTING LIGHT FIXTURES IN DEMOLITION AREA AND ASSOCIATED CONTROLS IF NOT REQUIRED FOR REMAINING LIGHT FIXTURES. MAINTAIN CIRCUIT AND CONTROL CONTINUITY FOR REMAINING LIGHTS FIXTURES.
3. REMOVE EXISTING RECEPTACLES, POWER AND LOW VOLTAGE IN DEMOLITION AREA. MAINTAIN CIRCUIT CONTINUITY FOR REMAINING DEVICES.

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
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CONSULTANT

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MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER
JINGPEI ZHANG
E 16243
EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

1ST FLOOR ALT DEMOLITION LIGHTING PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

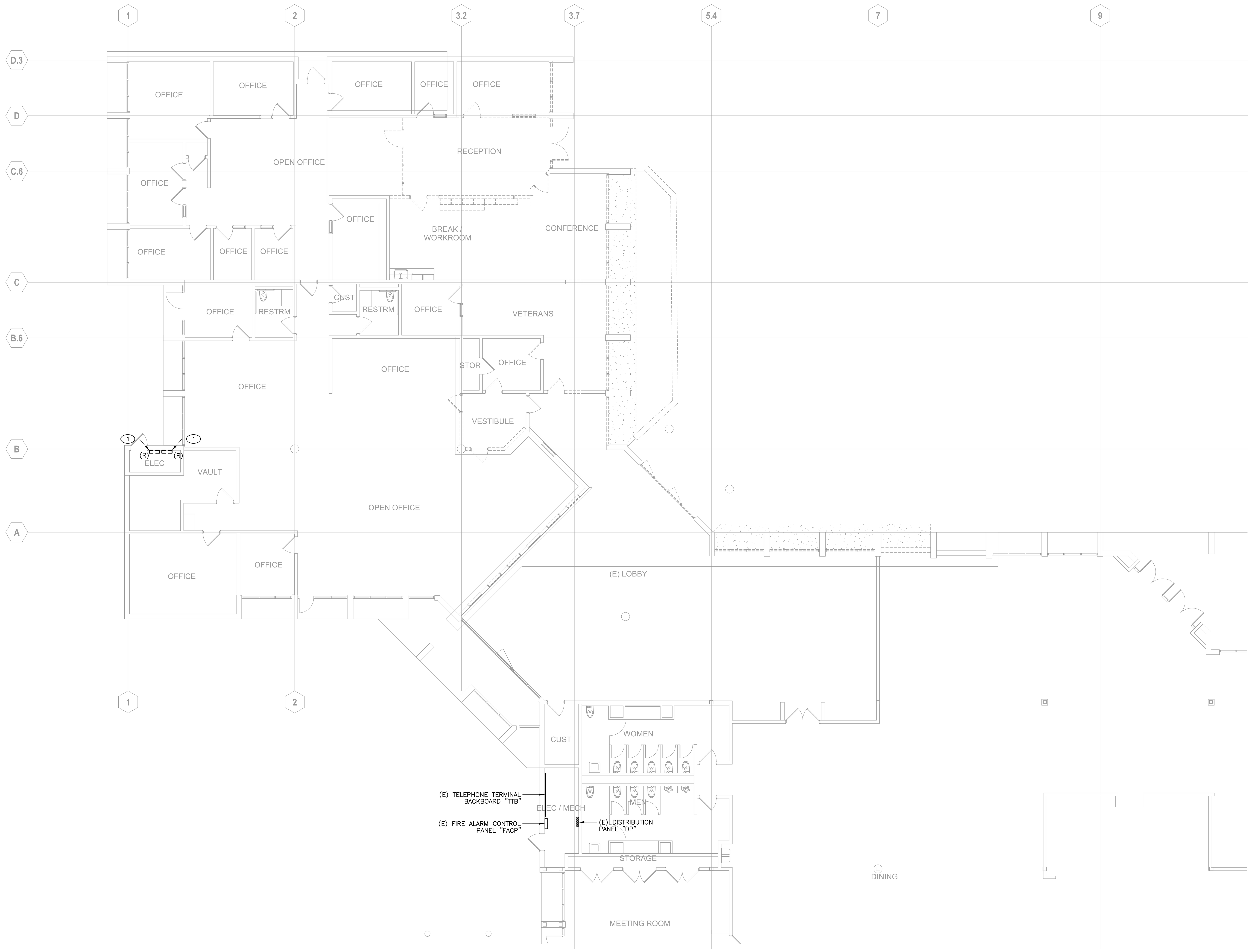
ED2.00B

DSA SUBMITTAL II

6/8/2017 7:46:09 AM

KEY NOTES

(1) EXISTING SECURITY HEAD END PANELS/CABINETS (ACCESS AND INTRUSION, AND CCTV). DISCONNECT, REMOVE, AND RELOCATE TO NEW IDF ROOM 137 IN NEW EXPANSION BUILDING. PROVIDE GUTTER, MATCH CABLING, SPLICE AND EXTEND TO NEW LOCATION AND RECONNECT AS BEFORE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. SEE KEY NOTE 25, SHEET E4.01A. (1)



1ST FLOOR DEMOLITION POWER PLAN 1
1/8" = 1'-0"

N

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REGISTERED PROFESSIONAL ENGINEER
E16243
EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

1ST FLOOR DEMOLITION POWER PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

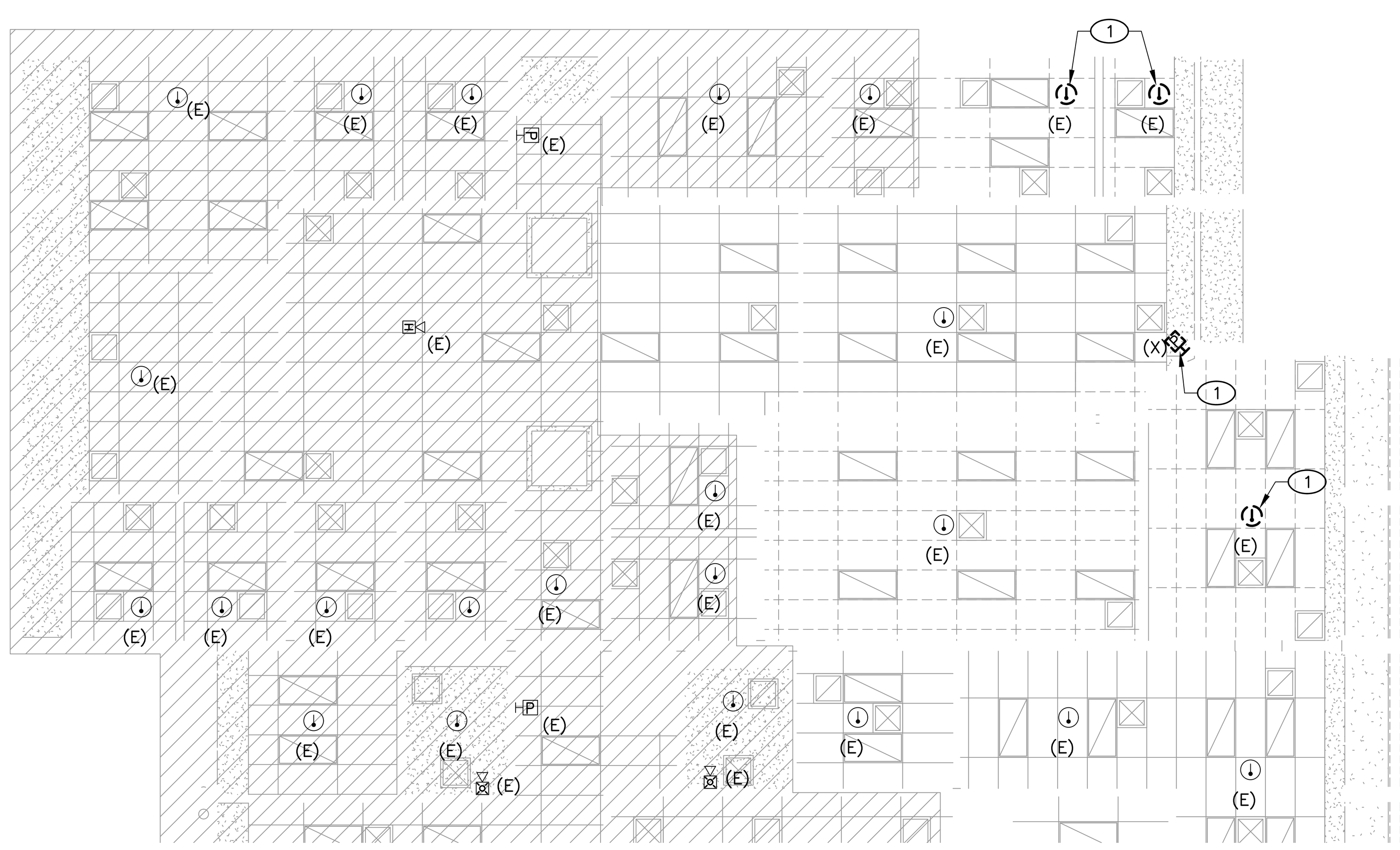
ED3.00

DSA SUBMITTAL II

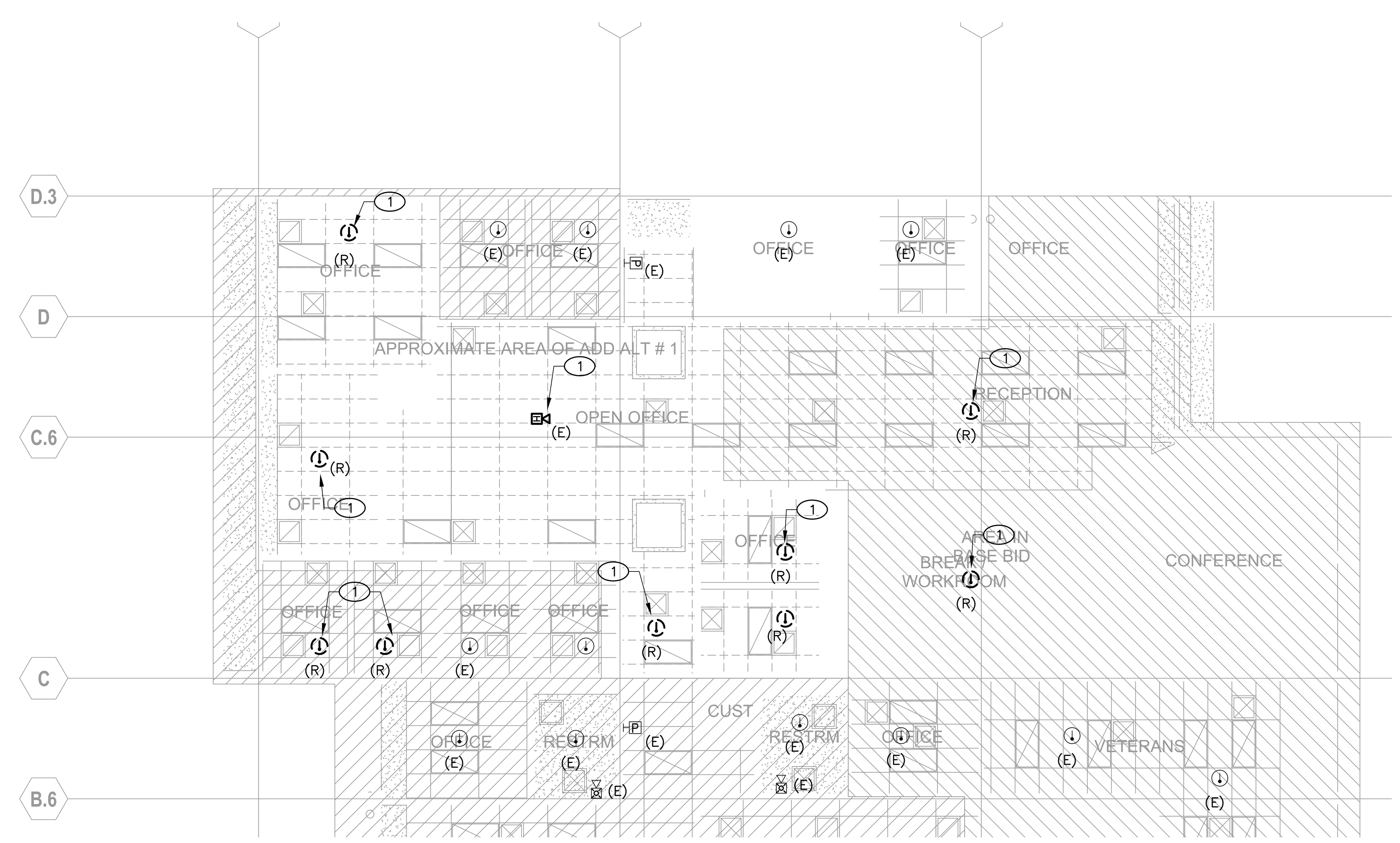
6/8/2017 7:46:09 AM

KEY NOTES

(1) DISCONNECT AND REMOVE (E) FIRE ALARM DEVICES. PRESERVE EXISTING CIRCUITRY FOR RECONNECTION PER SHEET, KEY NOTE



1ST FLOOR DEMOLITION FIRE ALARM PLAN BASE
1/8" = 1'-0"
1



1ST FLOOR DEMOLITION FIRE ALARM PLAN ALTERNATE
1/8" = 1'-0"
1

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1ST FLOOR DEMOLITION FIRE ALARM PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

FAD1.01

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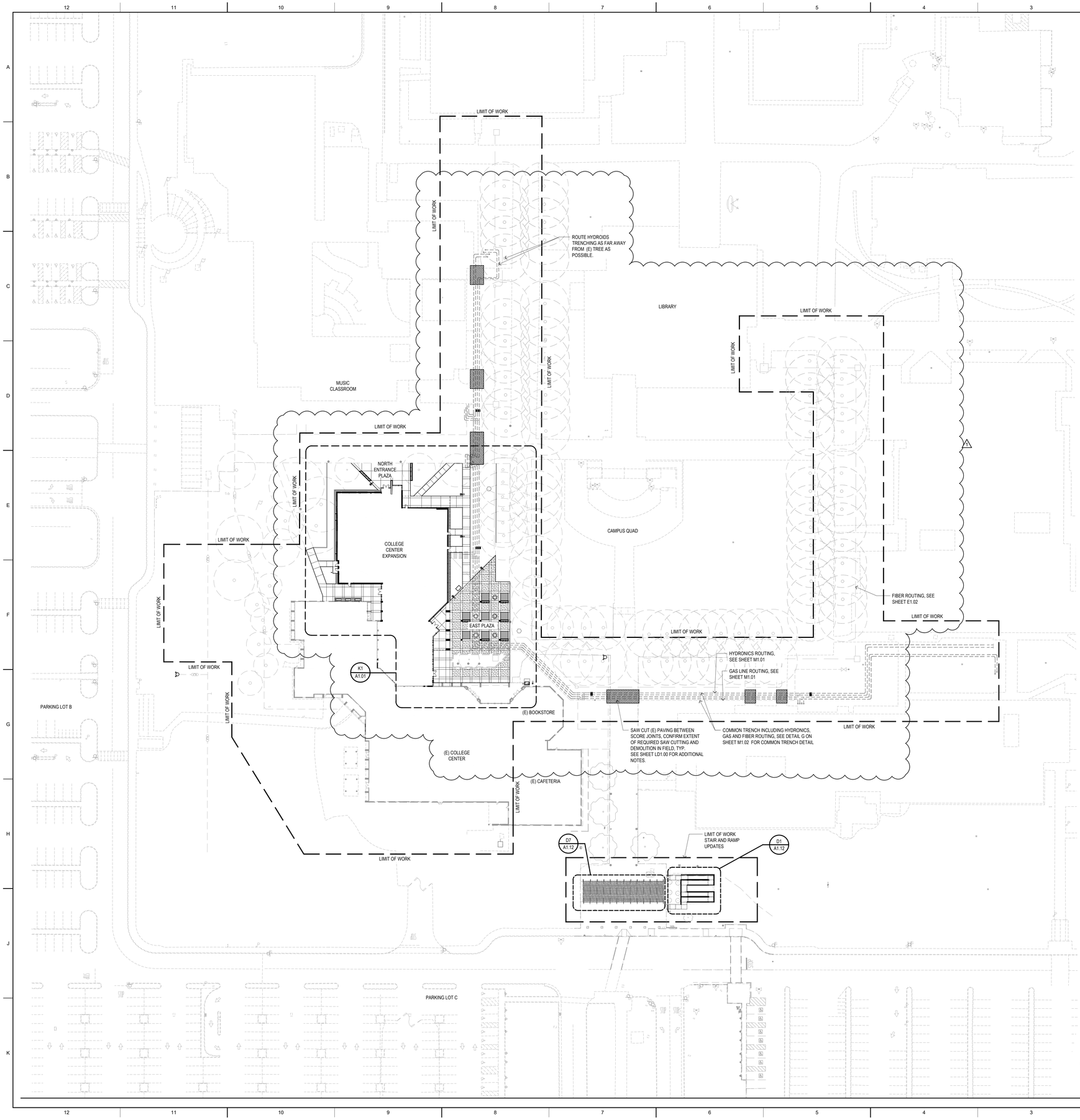
6/8/2017 7:46:09 AM



SITE PLAN
1" = 40'-0" K1

SITE NOTES

1. FIELD VERIFY ALL TREE LOCATIONS PRIOR TO START OF CONSTRUCTION. ALL TREES SHOWN ON PLAN TO BE PRESERVED SHALL BE PROTECTED DURING CONSTRUCTION, SEE TREE PROTECTION NOTES ON SHEET LD1.00
2. IT IS THE CONTRACTORS RESPONSIBILITY TO REPAIR ANY (E) HARDSCAPE DAMAGED DURING CONSTRUCTION, DEMOLITION, OR ADDITIONAL TRENCHING.
3. CONTRACTOR SHALL INFORM ARCHITECT OF ANY DISCREPANCIES BETWEEN THE PLANS AND FIELD CONDITIONS. THE WRITTEN DIMENSION SHALL SUPERSEDE THE DRAWN DIMENSION. ALL FIELD CHANGES MUST BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
4. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF WALL UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE AT 90 DEGREES OR 45 DEGREES UNLESS OTHERWISE NOTED.
5. SLEEVING SHALL BE PROVIDED AND COORDINATED BY CONTRACTOR DURING CONCRETE WORK AND WALL CONSTRUCTION. ALL SLEEVES SHALL BE SCHEDULE 40 PVC, SIZE AS NOTED. REFER TO CIVIL AND IRRIGATION PLANS FOR LOCATIONS OF SLEEVES.
6. PROVIDE A CROSS SLOPE ON ALL CONCRETE WALKS AND PAVING OF 2% MAXIMUM, 1% MINIMUM TO PROVIDE POSITIVE DRAINAGE. REFER TO CIVIL PLANS FOR MORE INFORMATION.
7. FINISH GRADE SHALL HAVE A MINIMUM OF 2% SLOPE AWAY FROM ALL WALLS AND STRUCTURES UNLESS OTHERWISE SPECIFIED. REFER TO CIVIL PLANS FOR MORE INFORMATION.
8. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO ANY EXCAVATION. CONTACT COMMON GROUND ALLIANCE (C.G.A.) @ 811. CALL AT LEAST 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
9. WHERE CONTRACTOR'S WORK INTERFACES WITH EXISTING IMPROVEMENTS, CARE SHALL BE TAKEN TO AVOID DAMAGING EXISTING LANDSCAPING, IRRIGATION AND UTILITIES, ANY DAMAGE TO EXISTING CONDITIONS SHALL BE REPAIRED WITHIN 48 HOURS AT NO ADDITIONAL COST TO THE OWNER.
10. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING THE ELEVATIONS OF ALL NEW AND EXISTING UTILITY VAULTS, BOXES, MANHOLES, AND OTHER STRUCTURES TO NEW FINISH GRADE.
11. REFER TO SPECIFICATIONS FOR MORE INFORMATION.

SITE NOTES
NTS J1

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APPROVAL

SITE PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

A1.00

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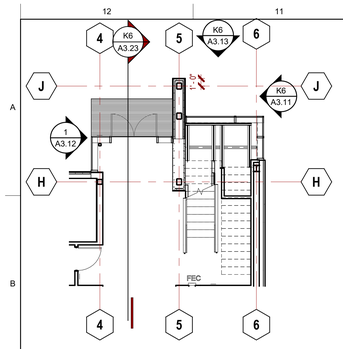
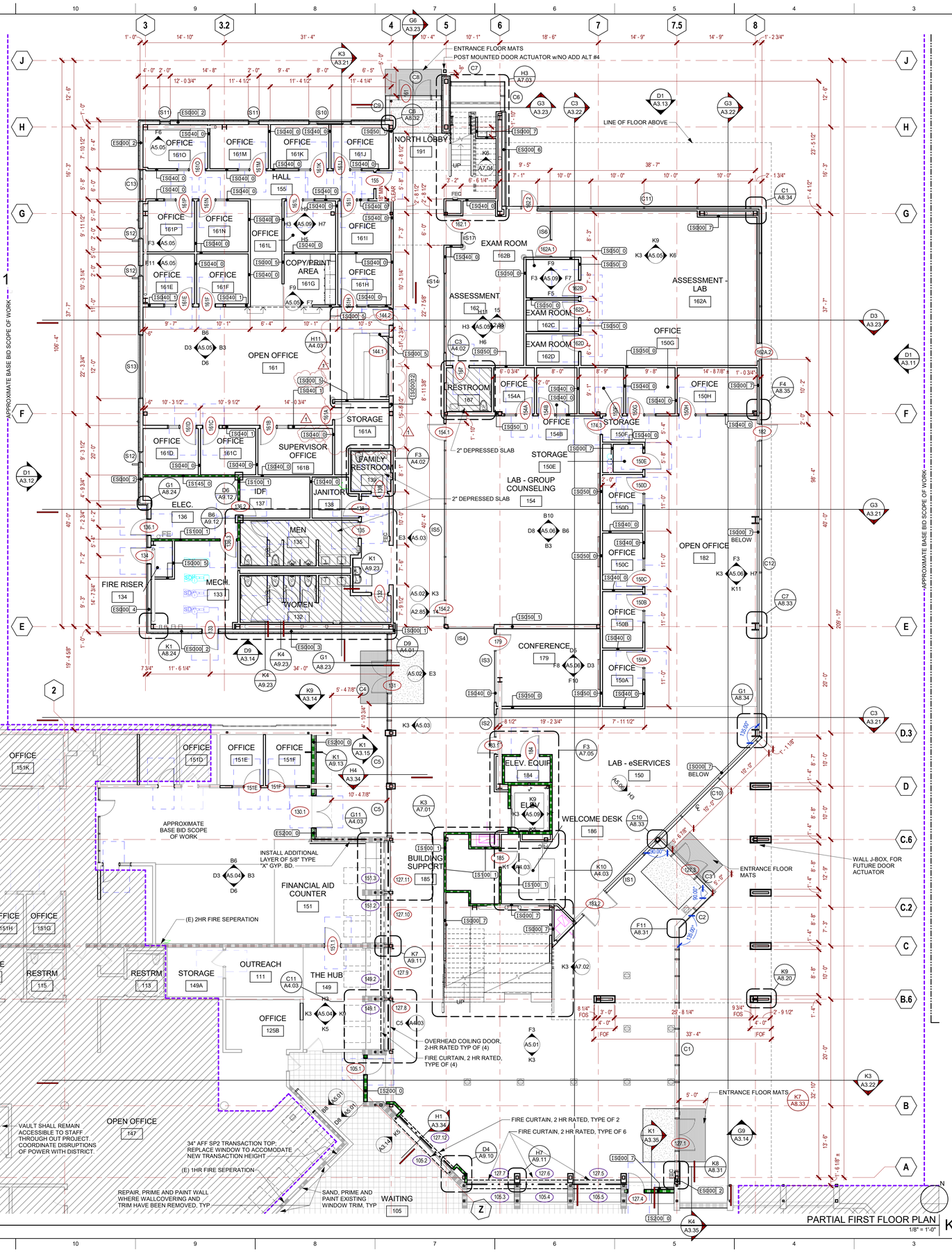


PARTIAL FIRST FLOOR PLAN ADD ALT #4 C11
1/8" = 1'-0"



PARTIAL FIRST FLOOR PLAN K3
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, OUTLET COVERS AND JUNCTION BOX PLATES IN AREAS OF MODERNIZATION.
2. UNLESS OTHERWISE NOTED, INTERIOR WALLS SHALL BE TYPE IS0 50 1.
3. SEE SHEET A2.31 FOR FINISHES.
4. SEE SHEET A0.40 FOR ACCESS COMPLIANCE DIMENSIONS NOT NOTED ON THIS SHEET, INCLUDING BUT NOT LIMITED TO DOOR CLEARANCES, PLUMBING FIXTURES, TOILET STALLS, SHOWERS, ETC.
5. PAINT ALL EXPOSED STEEL COLUMNS.
6. WALLS DAMAGED BY DEMOLITION WORK SHALL BE REPAIRED, TEXTURED AND PAINTED TO MATCH ADJACENT WALL.

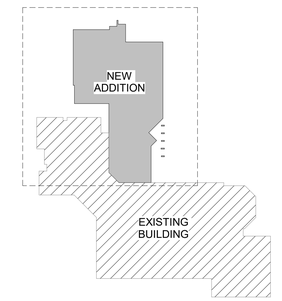
FLOOR PLAN SYMBOLS LEGEND

- EXISTING WALL TO REMAIN
- NEW INTERIOR WALL
- 1-HOUR RATED INTERIOR WALL
- 2-HOUR FIRE WALL
- FLOOR RECEPTACLE
- WALL RECEPTACLE
- FEC — FIRE EXTINGUISHER IN RECESSED CABINET (H3 A9.11)
- 201 — DOOR NUMBER, SEE DOOR SCHEDULE SHEET A2.81
- B — WINDOW/STOREFRONT NUMBER, SEE WINDOW SCHEDULE SHEET A2.82 - A2.85
- CEILING MOUNTED PROJECTOR SEE DETAIL K11 A9.60

WALL TAG LEGEND

REFER TO SHEET A9.20, A9.21 & A9.22 FOR WALL TYPE DETAILS

ISD45 01
- LOCATION: "I" = INTERIOR, "E" = EXTERIOR
- MATERIAL: "W" = WOOD, "S" = STEEL. "C" = CONCRETE
- FIRE RATING: 1HR, 2HR. ETC..
- STC RATING
- IDENTIFIER: NUMBER DESIGNATION



KEY PLAN
1" = 80'-0"

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PARTIAL FIRST FLOOR PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A2.01A 1

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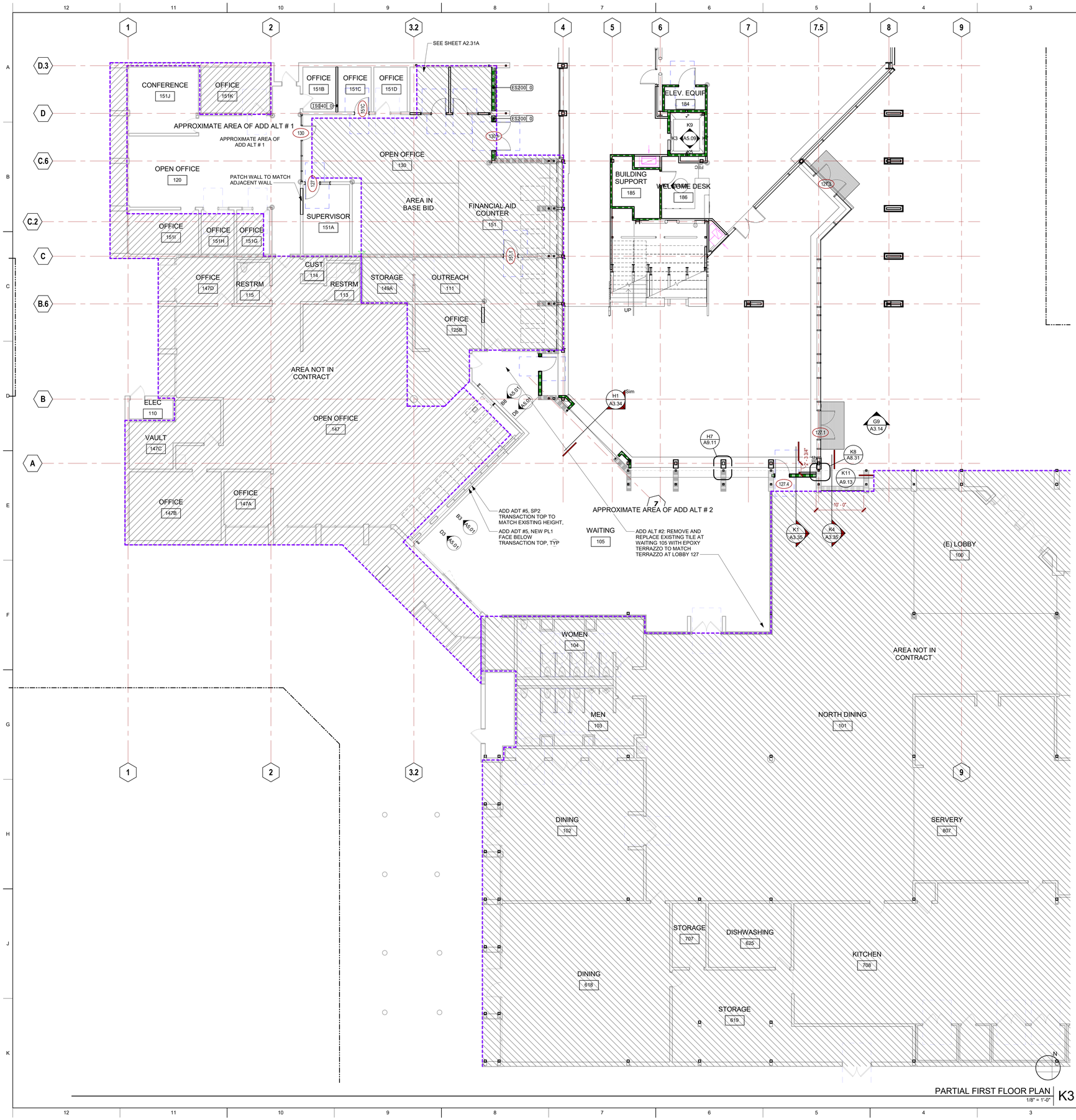


PARTIAL FIRST FLOOR PLAN | K3
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, OUTLET COVERS AND JUNCTION BOX PLATES IN AREAS OF MODERNIZATION.
2. UNLESS OTHERWISE NOTED, INTERIOR WALLS SHALL BE TYPE IS0 50 1.
3. SEE SHEET A2.31 FOR FINISHES.
4. SEE SHEET A0.40 FOR ACCESS COMPLIANCE DIMENSIONS NOT NOTED ON THIS SHEET, INCLUDING BUT NOT LIMITED TO DOOR CLEARANCES, PLUMBING FIXTURES, TOILET STALLS, SHOWERS, ETC.
5. PAINT ALL EXPOSED STEEL COLUMNS.
6. WALLS DAMAGED BY DEMOLITION WORK SHALL BE REPAIRED, TEXTURED AND PAINTED TO MATCH ADJACENT WALL.

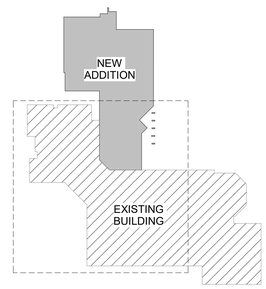
FLOOR PLAN SYMBOLS LEGEND

- EXISTING WALL TO REMAIN
- NEW INTERIOR WALL
- 1-HOUR RATED INTERIOR WALL
- 2-HOUR FIRE WALL
- FLOOR RECEPTACLE
- WALL RECEPTACLE
- FEC — FIRE EXTINGUISHER IN RECESSED CABINET (H3 / A9.11)
- 201 — DOOR NUMBER, SEE DOOR SCHEDULE SHEET A2.81
- B — WINDOW/STOREFRONT NUMBER, SEE WINDOW SCHEDULE SHEET A2.82 - A2.85
- CEILING MOUNTED PROJECTOR SEE DETAIL (K11 / A9.60)

WALL TAG LEGEND

REFER TO SHEET A9.20, A9.21 & A9.22 FOR WALL TYPE DETAILS

- LOCATION: "I" = INTERIOR, "E" = EXTERIOR
- MATERIAL: "W" = WOOD, "S" = STEEL, "C" = CONCRETE
- FIRE RATING: 1HR, 2HR, ETC..
- STC RATING
- IDENTIFIER: NUMBER DESIGNATION



KEY PLAN
1" = 80'-0"

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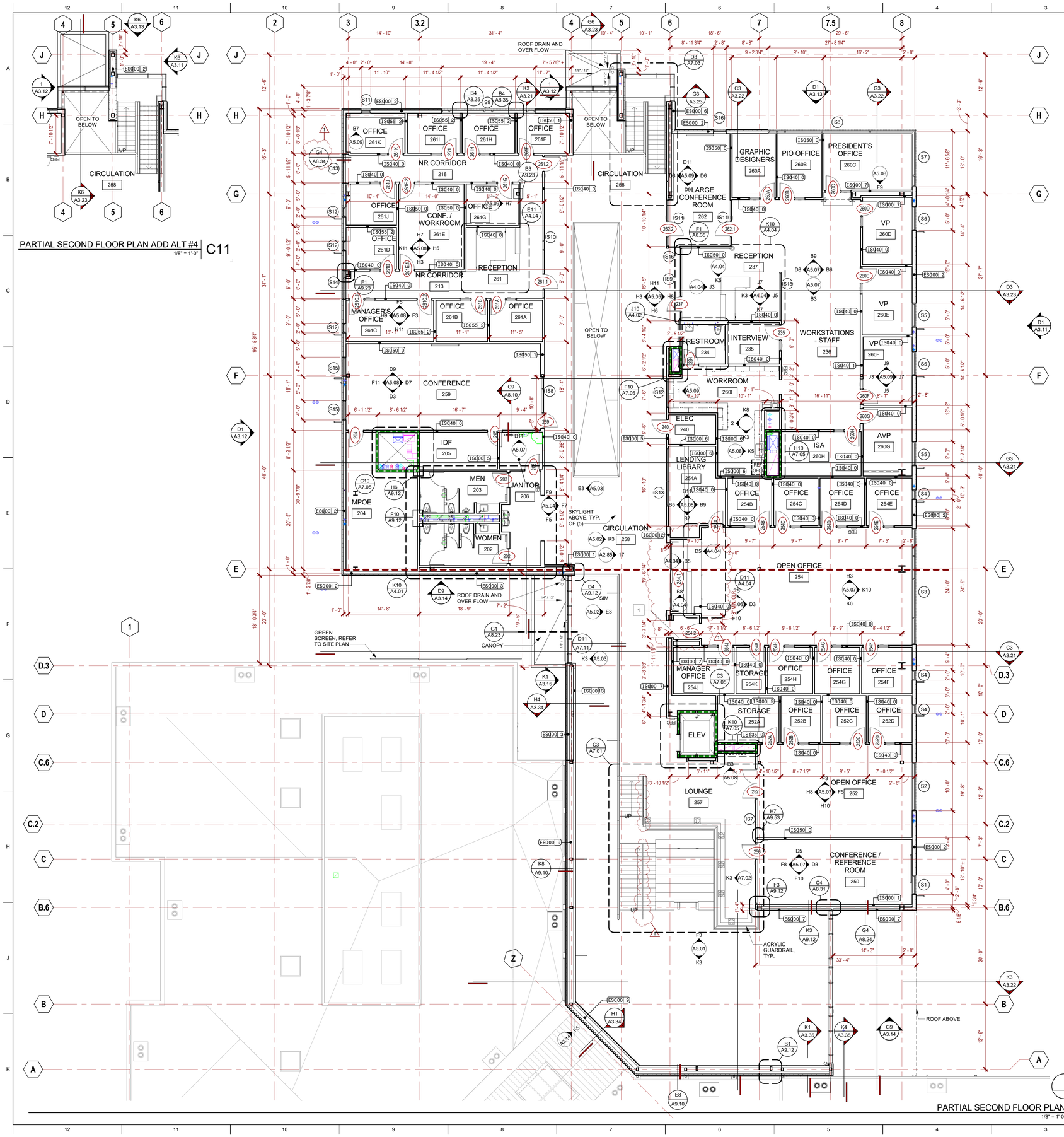
PARTIAL FIRST FLOOR PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A2.01B

DSA SUBMITTAL II

PARTIAL SECOND FLOOR PLAN ADD ALT #4 | C11
1/8" = 1'-0"



PARTIAL SECOND FLOOR PLAN | K3
1/8" = 1'-0"

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, OUTLET COVERS AND JUNCTION BOX PLATES IN AREAS OF MODERNIZATION.
2. UNLESS OTHERWISE NOTED, INTERIOR WALLS SHALL BE TYPE IS0 50 1.
3. SEE SHEET A2.31 FOR FINISHES.
4. SEE SHEET A0.40 FOR ACCESS COMPLIANCE DIMENSIONS NOT NOTED ON THIS SHEET, INCLUDING BUT NOT LIMITED TO DOOR CLEARANCES, PLUMBING FIXTURES, TOILET STALLS, SHOWERS, ETC.
5. PAINT ALL EXPOSED STEEL COLUMNS.
6. WALLS DAMAGED BY DEMOLITION WORK SHALL BE REPAIRED, TEXTURED AND PAINTED TO MATCH ADJACENT WALL.

FLOOR PLAN SYMBOLS LEGEND

- EXISTING WALL TO REMAIN
- NEW INTERIOR WALL
- 1-HOUR RATED INTERIOR WALL
- 2-HOUR FIRE WALL
- FLOOR RECEPTACLE
- WALL RECEPTACLE
- FEC — FIRE EXTINGUISHER IN RECESSED CABINET (H3 A9.11)
- 201 — DOOR NUMBER, SEE DOOR SCHEDULE SHEET A2.81
- B — WINDOW/STOREFRONT NUMBER, SEE WINDOW SCHEDULE SHEET A2.82 - A2.85
- CEILING MOUNTED PROJECTOR SEE DETAIL (K11 A9.60)

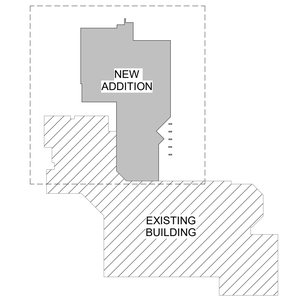
WALL TAG LEGEND

REFER TO SHEET A9.20, A9.21 & A9.22 FOR WALL TYPE DETAILS

ISO 45 01
- LOCATION: "I" = INTERIOR, "E" = EXTERIOR
- MATERIAL: "W" = WOOD, "S" = STEEL, "C" = CONCRETE
- FIRE RATING: 1HR, 2HR, ETC..
- STC RATING
- IDENTIFIER: NUMBER DESIGNATION

SHEET NOTES

1. FACE OF DOOR TO ALIGN WITH FACE OF FINISH



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1" = 80'-0"

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SECOND FLOOR PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A2.02

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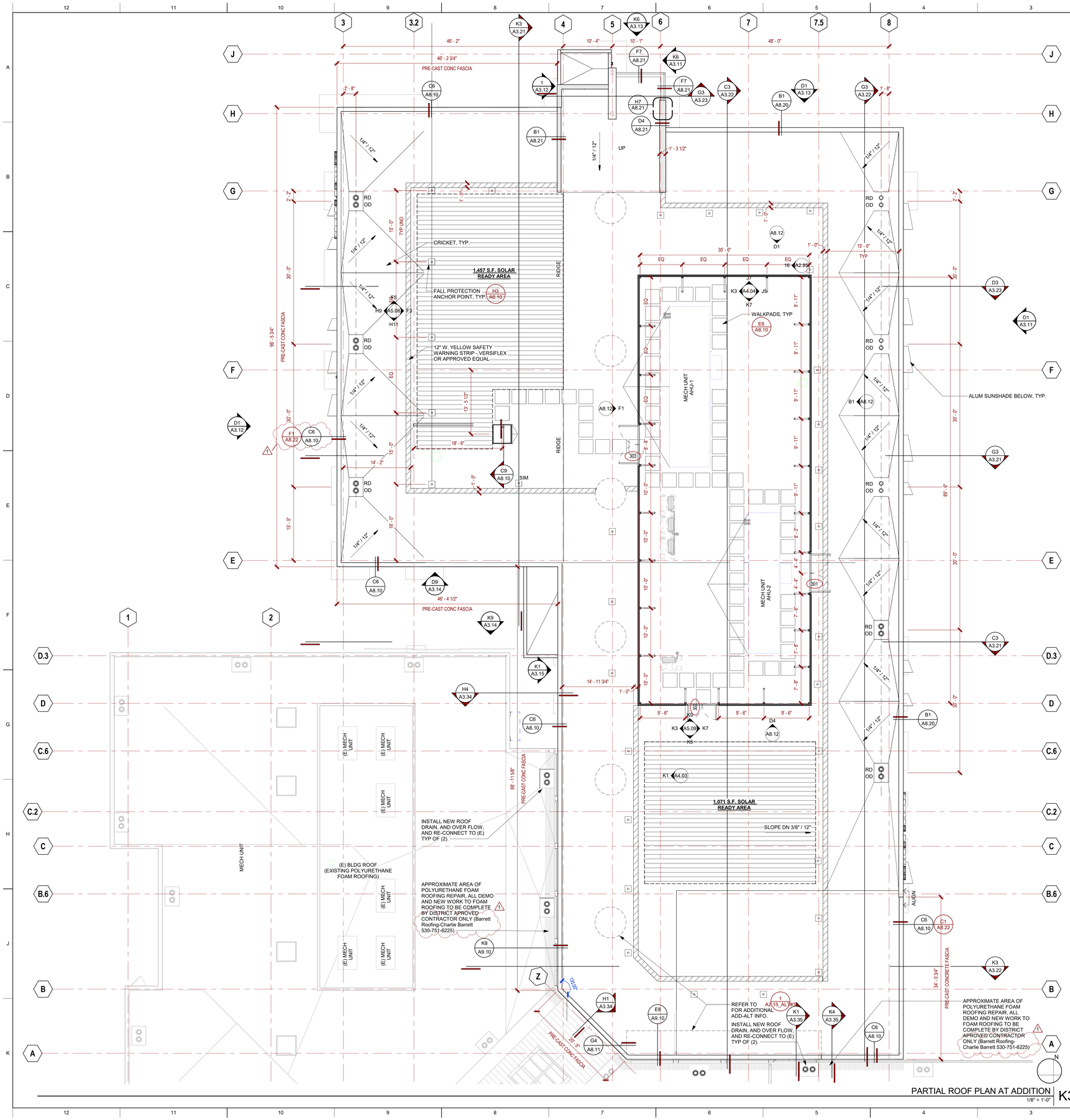
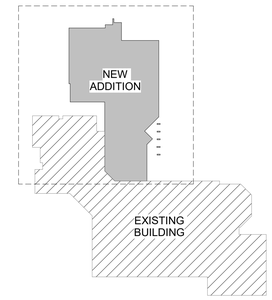


GENERAL NOTES

1. ROOF SHALL BE SINGLE-PLY FULLY ADHERED THERMOPLASTIC (TPO) ROOFING O/ 5/8" GYPSUM COVER BOARD O/ 4" RIGID INSULATION O/ SLOPED METAL DECK. - CLASS "A"
2. DOMED SKYLIGHTS SHALL BE INSTALLED ON SITE-BUILT CURBS.
3. FORM CRICKETS INDICATED WITH BUILT-UP TAPERED INSULATION AS REQUIRED TO ACHIEVE SLOPES INDICATED.
4. MODIFICATIONS / TIE-INS TO EXISTING POLYURETHANE FOAM ROOFING SHALL BE PERFORMED BY BARRET'S ROOFING; CONTACT CHARLIE BARRET (530) 751-6225.

ROOF PLAN LEGEND

- ROOF WALK PAD
- SAFETY WARNING STRIPE
- **SOLAR READY AREA** (TOTAL ROOF AREA) - (SKYLIGHTS) = 16,372 S.F. 16,372 S.F. x 0.15 = 2,456 S.F. REQUIRED SOLAR READY AREA 1,457 S.F. + 1,071 S.F. PROVIDED = 2,528 S.F.
- RD / OD — ROOF DRAIN W/ OVERFLOW (K1 A8.10) (K3 A8.10)
- EXHAUST FAN - SEE MECHANICAL
- ROOF ACCESS HATCH (C3 A8.10)
- FALL PROTECTION ANCHOR POINT (H3 A8.10) (16 S5.02)



KEY PLAN
1" = 80'-0"

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ARCHITECT'S STAMP APPROVAL

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PARTIAL ROOF PLAN AT ADDITION

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

A2.15

DSA SUBMITTAL II

FLOOR COMBINATIONS

1. SEE FINISH FLOOR PLAN SHEETS A2.31 & A2.32
2. SEE SHEET ***A9.11*** FOR FLOOR FINISH DETAILS

FC1: RF1 & RF2

FC2: SP7 & SP8

FC3: C1 & C4

WALL COMBINATIONS

1. SEE INTERIOR ELEVATION SHEETS FOR ADDITIONAL CLARIFICATION WHEN WALL COMBINATIONS ARE USED

WC1: SP4, SP5 & SP6

WC2: SP4, SP6, SP9

WC3: T4 & T5 W/ P1 ABOVE; OCCURS AT RESTROOMS

WC4: SP10 W/ P1 ABOVE 1

CASEWORK TYPES

1. REFER TO INTERIOR ELEVATIONS SHEETS ***A5.01 - A5.09*** AND SHEET ***A9.80*** FOR CASEWORK TYPES
2. REFER TO CASEWORK DETAILS ON SHEET ***9.81 & 9.82***
3. CASEWORK PULLS BASIS OF DESIGN TO BE HAFELE 100.45.051 HANDLE; STAINLESS STEEL, GRADE 304, 128MM
4. PROVIDE LOCKS ON ALL CASEWORK DOORS AND DRAWERS, COORDINATE KEYING WITH DISTRICT

CW1: VERTICAL SURFACES PL3; SP2 COUNTERTOP AND SP2 TRANSACTION TOP WITH AN EASED EDGE; SP11 GLASS WITH STRIP LIGHT AND DIMENSION LETTERING SIGNAGE; ALL EDGEBANDING TO MATCH ADJACENT FINISH

CW2: NOT USED

CW3: VERTICAL SURFACES PL1; COUNTERTOP WITH A SQUARE EDGE PL2; 4" BACKSPLASH (U.O.N.) PL2 ; ALL EDGEBANDING TO MATCH ADJACENT FINISH

FINISH MATERIAL LEGEND

FINISH CODE	MANUFACTURER	STYLE/TYPE, COLOR, SIZE	NOTES
CARPET			
C1	TANDUS	LINEWAVE 04846; COLOR: AZULINE 21308; 24x24 ETHOS BACKING	
C2	TANDUS	LINEWAVE 04846; COLOR: AMPLIFIER 21309; 24x24 ETHOS BACKING	
C3	TANDUS	NANO 04539; COLOR: WIRED 48201; 24x24 ETHOS BACKING	PRESIDENT'S SUITE
C4	TANDUS	PLEXUS COLOUR IV 02875; COLOR GREAT LAKES 18548; 24 X 24 ETHOS BACKING	ACCENT CARPET UNDER RECETPION DESK AREAS
RESLIENT FLOORING			
RF1	FORBO	MARMOLEUM; STRIATO; COLOR: T5232 ROCKY ICE; 10x40	PRIMARY
RF2	FORBO	MARMOLEUM; STRIATO; COLOR: T3573 TRACE OF NATURE; 10x40	ACCENT
RF3	FORBO	MARMOLEUM; STRIATO; COLOR: 3573 TRACE OF NATURE; ROLLED SHEET GOODS	
RF4	JOHNSONITE	RUBBER TREADS WITH INTEGRATED RISER; STYLE: BAMBOO; COLOR: 32 PEBBLE; USE BLACK GRIT TAPE INSERT AT TOP AND BOTTOM TREAD	
BASE			
B1	JOHNSONITE	4" RUBBER BASE; COLOR: 48 GREY	PROVIDE TOELESS AT CARPET AND WITH TOE AT RESILIENT INSTALLATIONS
B2	6" SELF COVE BASE	SAME AS FLOOR MATERIAL	PROVIDE J-MOLD AT TOP EDGE OF BASE
B3	JOHNSONITE	6" RUBBER BASE; COLOR: 48 GREY	PROVIDE TOELESS AT CARPET AND WITH TOE AT RESILIENT INSTALLATIONS
PAINT			
P1	DUNN EDWARDS	DE6218 ANTIQUE PAPER	PRIMARY PAINT (WHITE)
P2	DUNN EDWARDS	DE6227 MUSLIN	ACCENT PAINT (LIGHT GRAY)
P3	DUNN EDWARDS	DET612 STIEGLITZ SILVER	ACCENT PAINT (DARK GRAY)
P4	DUNN EDWARDS	DES888 LUNA PIER	ACCENT PAINT (BLUE)
P5	DUNN EDWARDS	DE5228 PUMPLIN PIE	ACCENT PAINT (ORANGE)
PLASTIC LAMINATE			
PL1	WILSONART	VERANDA TEAK 8209K-28	VERTICAL CASEWORK SURFACES
PL2	WILSONART	SOLICOR; DESIGNER WHITE D354-60	COPY/WORKROOM COUNTERTOPS
PL3	WILSONART	NORTH SEA D90-60	
PL4	WILSONART	STUDIO TEAK 7960K-18	ELEVATOR WALLS
TILE			
T1	DAL TILE	MODERN DIMENSIONS GLAZED TILE; COLOR: 1469 GALAXY; SIZE: 4-1/4 x 12-3/4	
T2	NOT USED		
T3	NOT USED		
T4	DALTILE	AMBASSADOR SERIES; COLOR: JET SETTER DUSK AM34; SIZE: 12x24	
T5	DAL TILE	AMBASSADOR SERIES; COLOR: JET SETTER DUSK AM34; SIZE:6" COVE BASE S-36C9T	
CEILING			
CL1	ARMSTRONG	ULTIMA HIGH NRC SECOND LOOK TEGULAR; 9/16" SUPRAFINE XL GRID; COLOR WHITE	REFER TO RCP; TECHZONE W/ INTEGRATED LIGHTING; SUSPENSION SYSTEM 9/16". PROVIDE ALL ACCESSORIES & COMPONENTS; WALL TRIM, PERIMETER TRIM AT AN FLOATING/EXPOSED EDGES AND SHADOW MOLDING
CL2	ARMSTRONG	ULTIMA HIGH NRC 2X4 BEVELED TEGULAR; 9/16" SUPRAFINE XL GRID; COLOR WHITE	REFER TO RCP
SPECIALTY FINISH			
SP1	CORIAN	CAMEO WHITE; 1 1/2" EASED EDGE	
SP2	CORIAN	ANTARCTICA; 1-1/2" EASED EDGE	
SP3	CONSTRUCTION SPECIALTIES	ACROVYN CORNER GUARDS; LG-200 SERIES; FULL HEIGHT W/ 2" LEGS	
SP4	SOFTWALLS	TACKABLE HIGH-IMPACT CORE; WRAP WITH CARNEGIE XOREL FABRIC COLOR: FLUX 6557 W93	REFER TO ELEVATION FOR SIZE
SP5	SOFTWALLS	TACKABLE HIGH-IMPACT CORE; WRAP WITH CARNEGIE XOREL FABRIC COLOR: FLUX 6557 W94	REFER TO ELEVATION FOR SIZE
SP6	NOT USED		
SP7	KEY RESIN	TERRAZZO FLOORING; COLOR 30% CHINA WHITE #0; 50% CHINA WHITE #1; 20% KCI CRUSHED MIRRO #2; 100% KEY RESIN EPOXY #001 WHITE W/ TFC 2; 200 GRIT DIAMOND FINISH W/ 2 COATS 807	CONTACT: CARRIE QUIST, COMMERCIAL SOLUTIONS 415-792-2412
SP8	KEY RESIN	TERRAZZO FLOORING; COLOR 20% KCI CRUSHED MIRROR #1; 60% CHINA WHITE #1; 20% TEXAS PINK #1; 100% KEY RESIN EPOXY #2617 CONSUMER GREY W/ TFC 2; 200 GRIT DIAMOND FINISH W/ 2 COATS 807	CONTACT: CARRIE QUIST, COMMERCIAL SOLUTIONS 415-792-2412
SP9	BY DISTRICT	MARKERBOARD; NIC	
SP10	MARLITE	STANDARD FRP; COLOR: P-199 BRITE WHITE; FINISH: PEBBLE	REFER TO ELEVATION FOR SIZE/HEIGHT; JANITOR
SP11	GLASS PRO	LAMINATED TRANSLUCENT GLASS; TRUE FOG	SERVICE DESKS AND GLAZING AT 2ND FLOOR GUARDRAIL
SP12	COMTEC/SCRANTON	HINY HIDERS; SOLID HDPE; COLOR: SHALE	TOILET PARTITIONS
SP13	CONSTRUCTION SPECIALTIES	ENTRANCE GRIDS; GRIDLINE 2	WALK-OFF AT ENTRANCES
SP14	SIGNATURE GRAPHICS	DIGITAL WALLCOVERING; IMAGE TO BE PROCURED BY VENDOR AND APPROVED BY ARCHITECT AND DISTRICT. ARCHITECT TO PROVIDE A BASIS OF DESIGN TO VENDOR.	PROVIDE LEVEL 5 WALL FINISH AT SP14 LOCATION. CONTACT: MARK ROBERTS 916-454-0800
SP15	KONE	BRUSHED STAINLESS STEEL (4SS)	ELEVATOR CAB
SP16	CURECRETE	SEALED CONCRETE; ASHFORD FORMULA	
SP17	3FORM	CHROMA; FINISH: VELLUM FO4; STYLE: CLEAR	
SP18	3FORM	CHROMA; FINISH: VELLUM FO4; STYLE: WHITE OUT WO1	

GENERAL NOTES - FINISHES

1. ALL INTERIOR FINISH MATERIALS AND COLORS TO BE SELECTED AND APPROVED BY THE ARCHITECT UNLESS OTHERWISE NOTED.
2. ALL INTERIOR FINISH MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. SEE ELEVATIONS, DETAILS, AND FINISH PLANS FOR CLARIFICATION OF EXTENT OF FINISH MATERIALS.
4. NO PAINTING OR INTERIOR FINISHING SHALL BE DONE UNDER CONDITIONS WHICH JEOPARDIZE THE QUALITY OR APPEARANCE OF SUCH WORK. ALL WORKMANSHIP WHICH IS JUDGED LESS THAN FIRST QUALITY BY THE GENERAL CONTRACTOR WILL BE REJECTED.
5. FLOORING:
   SLOPES AND FLOOR SURFACES SHALL BE WITHIN INDUSTRY STANDARDS FOR FIELD CONDITIONS AND SHALL NOT EXCEED MORE THAN 1/4 INCH IN 10 FEET FROM A TRUE FLAT PLANE. IF FLOOR IS OUT OF COMPLIANCE, LEVELING MUST BE ACHIEVED PER CURRENT CODE REQUIREMENTS. CONTRACTOR SHALL PERFORM A QUANTITATIVE MOISTURE TEST ON CONCRETE SUBFLOOR BEFORE INSTALLATION OF ANY FLOORING PRODUCT.

   CONTRACTOR SHALL COORDINATE UNDERCUTTING OF DOORS WITH THICKNESS OF FLOOR FINISH.

   CONTRACTOR TO VERIFY ALL FLOOR FINISH CONDITIONS.

   CARPET SHALL BE INSTALLED PER THE CARPET AND RUG INSTITUTE CRI 104 STANDARD FOR INSTALLATION OF TEXTILE FLOOR COVERING MATERIALS.

   TRANSITION STRIPS, WHERE REQUIRED AT FLOORING MATERIAL CHANGES, TO MATCH SPECIFIED RUBBER WALL BASE, UNLESS OTHERWISE NOTED.

   WHERE CHANGE IN FLOOR FINISH OCCURS IN DOORWAY THE CHANGE SHALL BE CENTERED UNDER THE CLOSED POSITION OF THE DOOR UNLESS OTHERWISE NOTED ON FINISH PLAN.
6. INTERIOR PAINT/STAIN:
   ALL SURFACES SHALL BE IN PROPER CONDITION TO RECEIVE THE SPECIFIED FINISH.

   INTERIOR PAINT GRADE WOODWORK SHALL BE HAND SANDED AND DUST CLEANED BETWEEN COATS. ALL KNOT HOLES, PITCH POCKETS OR SAPPY PORTIONS SHALL BE SCRAPED AND SHELLACKED OR SEALED WITH KNOT SEALER. NAIL HOLES, CRACKS OR DEFECTS SHALL BE CAREFULLY PUTTIED AFTER FIRST COAT WITH PUTTY MATCHING COLOR OF STAIN OR PAINT FINISH. REMOVE OIL OR GREASE WITH MINERAL SPIRITS.

   GYPSUM WALLBOARD SURFACES SHALL BE WIPED WITH A DAMP CLOTH JUST PRIOR TO APPLICATION OF THE FIRST FINISH COAT IN ORDER TO LAY FLAT ANY NAP WHICH MAY HAVE FORMED IN THE SANDING PROCESS. CONTRACTOR TO PROVIDE ONE PRIMER COAT AND TWO COATS OF PAINT. FINAL COAT TO BE A LEVEL 4 FINISH.

   RACKS, HOLES OR IMPERFECTIONS IN EXISTING PLASTER OR WALLBOARD SHALL BE FILLED WITH PATCHING PLASTER AND SMOOTHED OFF TO MATCH ADJOINING SURFACES.

   STAINED AND PAINTED SURFACES SHALL BE FINISHED SO THAT JOINTS ARE NOT VISIBLE WHEN VIEWED FROM ANY ANGLE.

   PAINT CEILING ACCESS PANELS (WHERE OCCURS) TO MATCH ADJACENT FINISH.

   SUBCONTRACTOR SHALL, UPON COMPLETION, REMOVE ALL PAINTING FROM WHERE IT HAS SPILLED, SPLASHED, OR SPLATTERED ON EXPOSED ADJACENT SURFACES. ADJACENT SURFACES TO BE RETURNED TO ORIGINAL CONDITION.
7. UNDERSIDE OF SOFFIT (WHERE OCCURS) TO RECEIVE A FINISH TO MATCH ADJACENT VERTICAL FINISH UNLESS OTHERWISE NOTED.
8. ELECTRICAL SWITCH AND OUTLET COVER PLATES, SURFACE HARDWARE, ETC. SHALL BE INSTALLED AFTER PAINTING AND/OR APPLICATION OF WALLCOVERING.
9. SUBCONTRACTOR SHALL EXAMINE ALL FINISH SURFACES AFTER COMPLETION OF WORK AND CORRECT ANY DEFECTS AS REQUIRED AND DIRECTED BY GENERAL CONTRACTOR.
10. PROVIDE SUBMITTAL FOR ANY OUTLETS OR SWITCH PLATES THAT MUST LAY ON A SPECIALTY FINISH THAT INCLUDES AVAILABLE MANUFACTURER COLORS THAT MATCH ADJACENT SPECIALTY FINISH. ANY LOUVERS, GRILLES, PANELS, ETC. THAT OCCUR MUST BE PAINTED TO MATCH ADJACENT SURFACE, INCLUDING THOSE WITHIN DOORS.

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COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C31285
RENEWAL DATE 08/31/19
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

FINISH LEGENDS

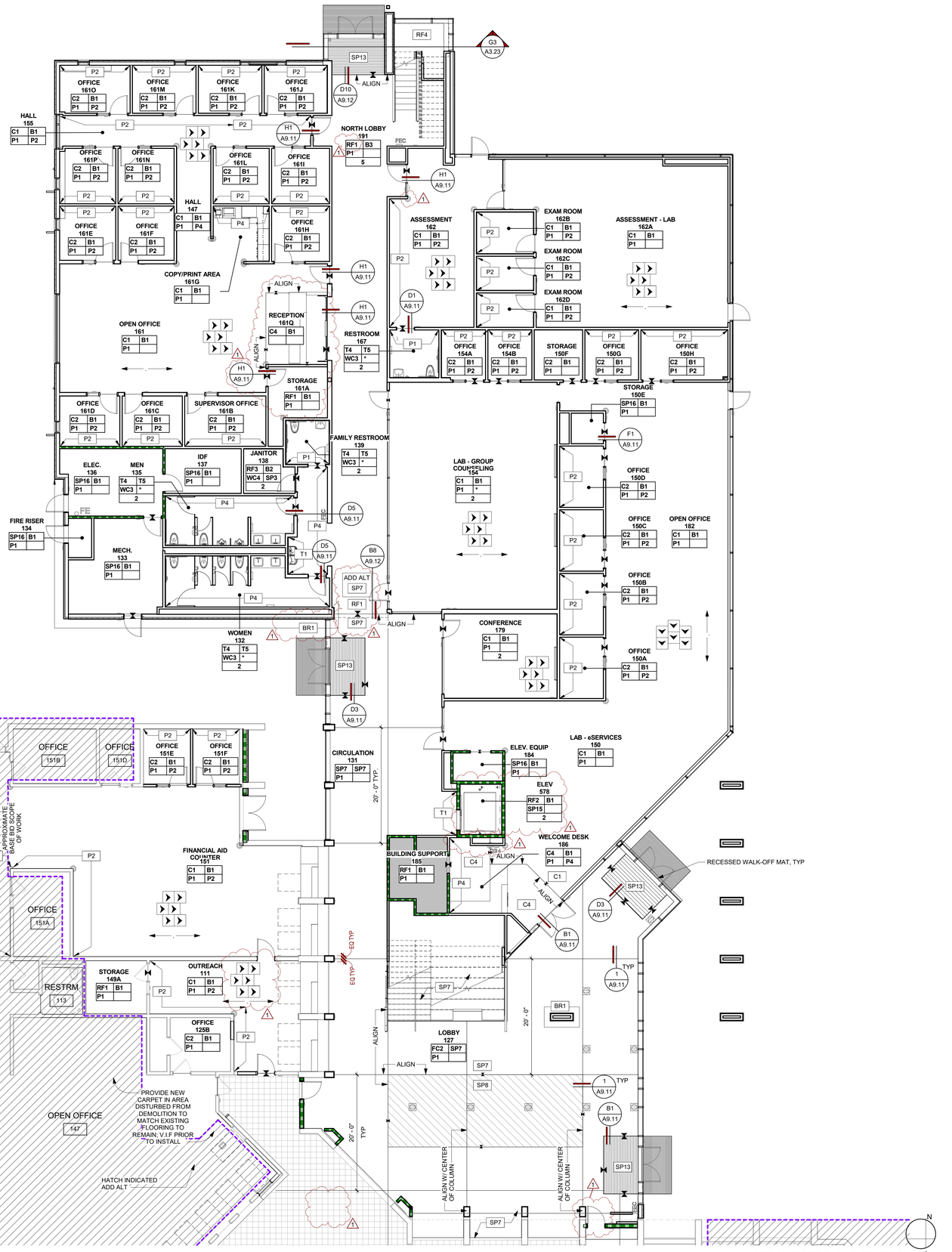
PROJECT NO: 201-0065

DATE: 01.15.2018

SHEET NO:

A2.30

DSA SUBMITTAL II



PARTIAL FIRST FLOOR FINISH PLAN K3

1/8" = 1'-0"

GENERAL NOTES (FINISH PLAN)

1. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON MATERIAL LOCATIONS AND FINISH TRANSITIONS.
2. SEE REFLECTED CEILING PLANS FOR CEILING MATERIALS AND TRANSITIONS.
3. WALLS AND GYP. BOARD CEILINGS: TO BE LEVEL 4 SMOOTH FINISH PAINTED **P1** EGGSHELL FINISH, UNLESS OTHERWISE NOTED. USE SEMI-GLOSS FINISH ONLY AT TRIM, UNLESS OTHERWISE NOTED.
4. DOORS: SEE DOOR SCHEDULE FOR DOOR AND TRIM FINISHES.
5. NOT USED
6. TRANSITION HEIGHTS BETWEEN DIFFERENT FLOORING MATERIALS NOT TO EXCEED 1/4".
6. WALL, CEILING, FLOORING (CARPET) TO COMPLY WITH CHAPTER 8 CBC FOR MAXIMUM FLAME SPREAD AND SMOKE DENSITY
7. ALL CORNER GUARDS ARE TO BE INSTALLED ABOVE WALL BASE. ALL CORNER GUARDS SHOWN ON FINISH PLAN ARE TO BE **SP3,** UNLESS OTHERWISE NOTED.
8. ALL SCHLUTER TRIM TO BE STAINLESS STEEL FINISH. REFER TO INTERIOR ELEVATIONS FOR LOCATIONS AT RESTROOMS WHERE SCHLUTER TRIM OCCURS ABOVE TILE BASE.
9. INSPECT CONDITION OF EXISTING CONCRETE FLOOR SLABS. PROVIDE ALLOWANCE TO PATCH / REPAIR EXISTING SLAB AND SEAL AS REQUIRED.
10. CONTRACT FURNITURE IS OUTSIDE THE SCOPE THIS CONTRACT AND WHERE SHOWN IS SHOWN FOR REFERENCE ONLY.
11. DIRECTION OF FLOOR IS INDICATED ON PLANS. FLOOR STRIPES SHALL RUN IN DIRECTION SHOWN ON PLANS. ADJACENT ROOMS WITH SIMILAR PATTERN SHALL RUN IN SAME DIRECTION AS PRIMARY ROOM. IF AT ANY TIME CONTRACTOR HAS QUESTIONS REGARDING INSTALLATION, DO NOT PROCEED UNTIL CLARIFICATION HAS BEEN GIVEN BY ARCHITECT.
12. WHEN WALL OR FLOOR COMBINATION IS USED (WC-# OR FC-#) REFER TO SHEET A2.30 FOR CLARIFICATION

FINISH PLAN SYMBOLS

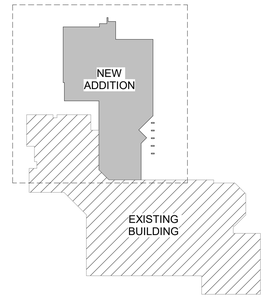
- INDICATES FLOOR FINISH TRANSITION AND ASSOCIATED DETAIL
- XX — FINISH CALLOUT
- Name / 101 — ROOM FINISH TAG
- FF / BF — FLOOR FINISH / BASE
- WF — ACCENT WALL FINISH, REFER TO FINISH PLAN FOR LOCATION
- RM NOTE — PRIMARY WALL FINISH; WHERE OCCURS, REFER TO FINISH TAG ROOM NOTES ON THIS SHEET

REFER TO FINISH LEGEND ON A2.30 FOR CORRESPONDING FINISH DESIGNATION

- VERTICAL ASHLAR CARPET INSTALLATION WITH DIRECTION OF PATTERN
- DIRECTION OF CARPET STRIPE
- ASHLAR RESILIENT INSTALLATION WITH DIRECTION OF PATTERN
- CORNER GUARD, SP3 (B3 / A9.11)

FINISH TAG ROOM NOTES

1. TAPE OUTSIDE CORNER TO PREVENT COLOR BLEED OF ACCENT COLOR AT CORNER
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
3. NOT USED
4. WRAP EXTERIOR BRICK TO INTERIOR WALL **BR1**, REFER TO EXTERIOR FINISH LEGEN ON SHEET A3.11
5. ADD ALT #2: SP7 IN PLACE OF RF1



KEY PLAN

1" = 80'-0"

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT TROY DAVINGTON C-31285 EXP. 08/31/19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

FIRST FLOOR FINISH PLAN

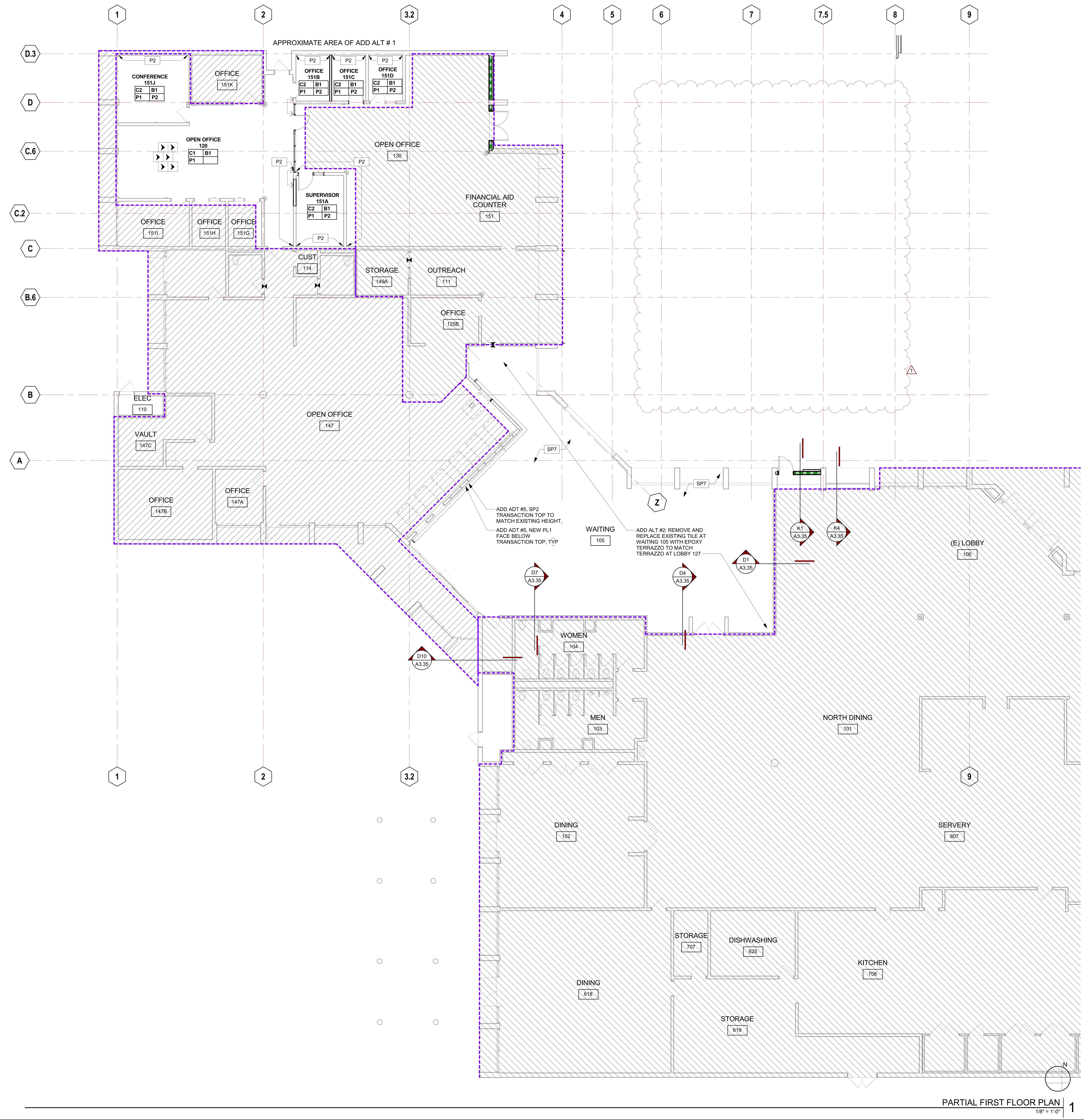
PROJECT NO: 201-0065

DATE: 01.15.2018

SHEET NO:

A2.31A

DSA SUBMITTAL II



GENERAL NOTES (FINISH PLAN)

1. SEE INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION ON MATERIAL LOCATIONS AND FINISH TRANSITIONS.
2. SEE REFLECTED CEILING PLANS FOR CEILING MATERIALS AND TRANSITIONS.
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4. DOORS: SEE DOOR SCHEDULE FOR DOOR AND TRIM FINISHES.
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6. TRANSITION HEIGHTS BETWEEN DIFFERENT FLOORING MATERIALS NOT TO EXCEED 1/4".
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12. WHEN WALL OR FLOOR COMBINATION IS USED (WC-# OR FC-#) REFER TO SHEET A2.30 FOR CLARIFICATION

FINISH PLAN SYMBOLS

INDICATES FLOOR FINISH TRANSITION AND ASSOCIATED DETAIL

XX — FINISH CALLOUT

Name 101 / FF BF / WF - / RM NOTE
ROOM FINISH TAG
FLOOR FINISH
BASE
ACCENT WALL FINISH, REFER TO FINISH PLAN FOR LOCATION
PRIMARY WALL FINISH
WHERE OCCURS, REFER TO FINISH TAG ROOM NOTES ON THIS SHEET

REFER TO FINISH LEGEND ON A2.30 FOR CORRESPONDING FINISH DESIGNATION

VERTICAL ASHLAR CARPET INSTALLATION WITH DIRECTION OF PATTERN

DIRECTION OF CARPET STRIPE 1

ASHLAR RESILIENT INSTALLATION WITH DIRECTION OF PATTERN

CORNER GUARD, SP3 B3/A9.11

FINISH TAG ROOM NOTES

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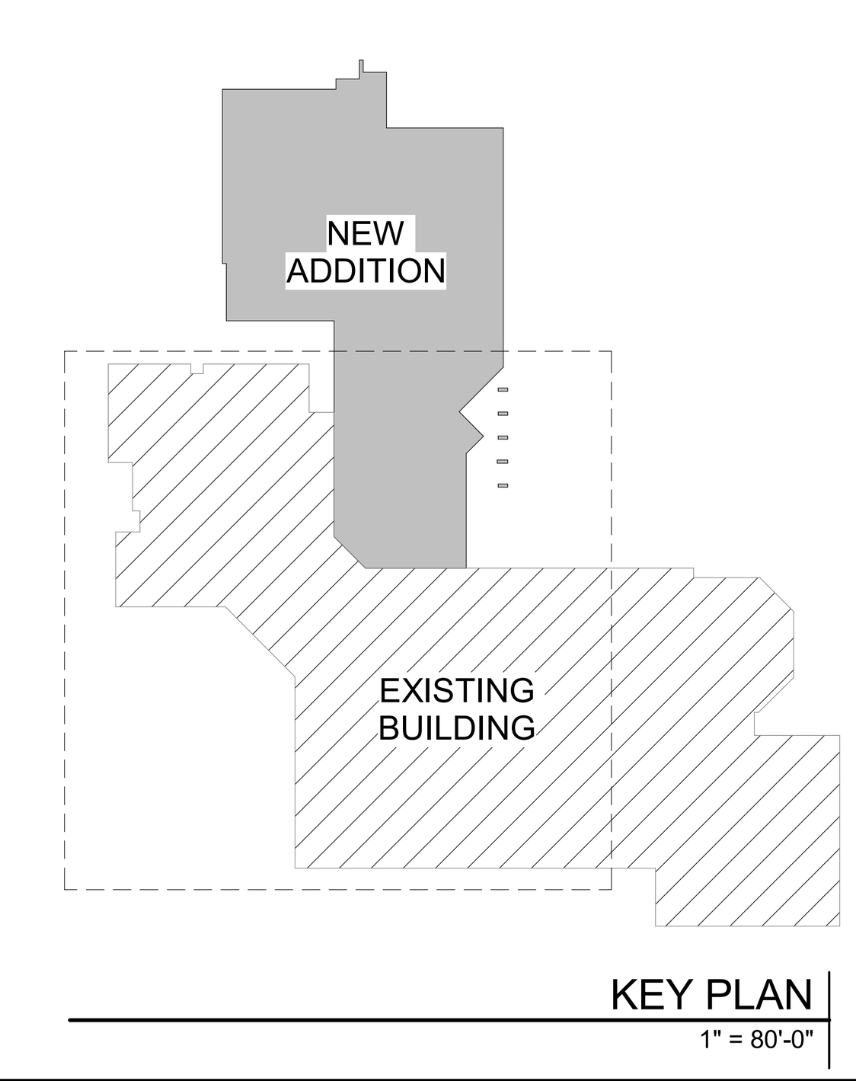
2. REFER TO INTERIOR ELEVATIONS FOR ADDITIONAL FINISH INFORMATION
3. NOT USED
4. WRAP EXTERIOR BRICK TO INTERIOR WALL **BR1**, REFER TO EXTERIOR FINISH LEGEN ON SHEET A3.11
5. ADD ALT #2: SP7 IN PLACE OF RF1



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LICENSED ARCHITECT TROY PENNINGTON C-31285 5/31/19 RENEWAL DATE STATE OF CALIFORNIA

ARCHITECT'S STAMP APPROVAL

CONSULTANT

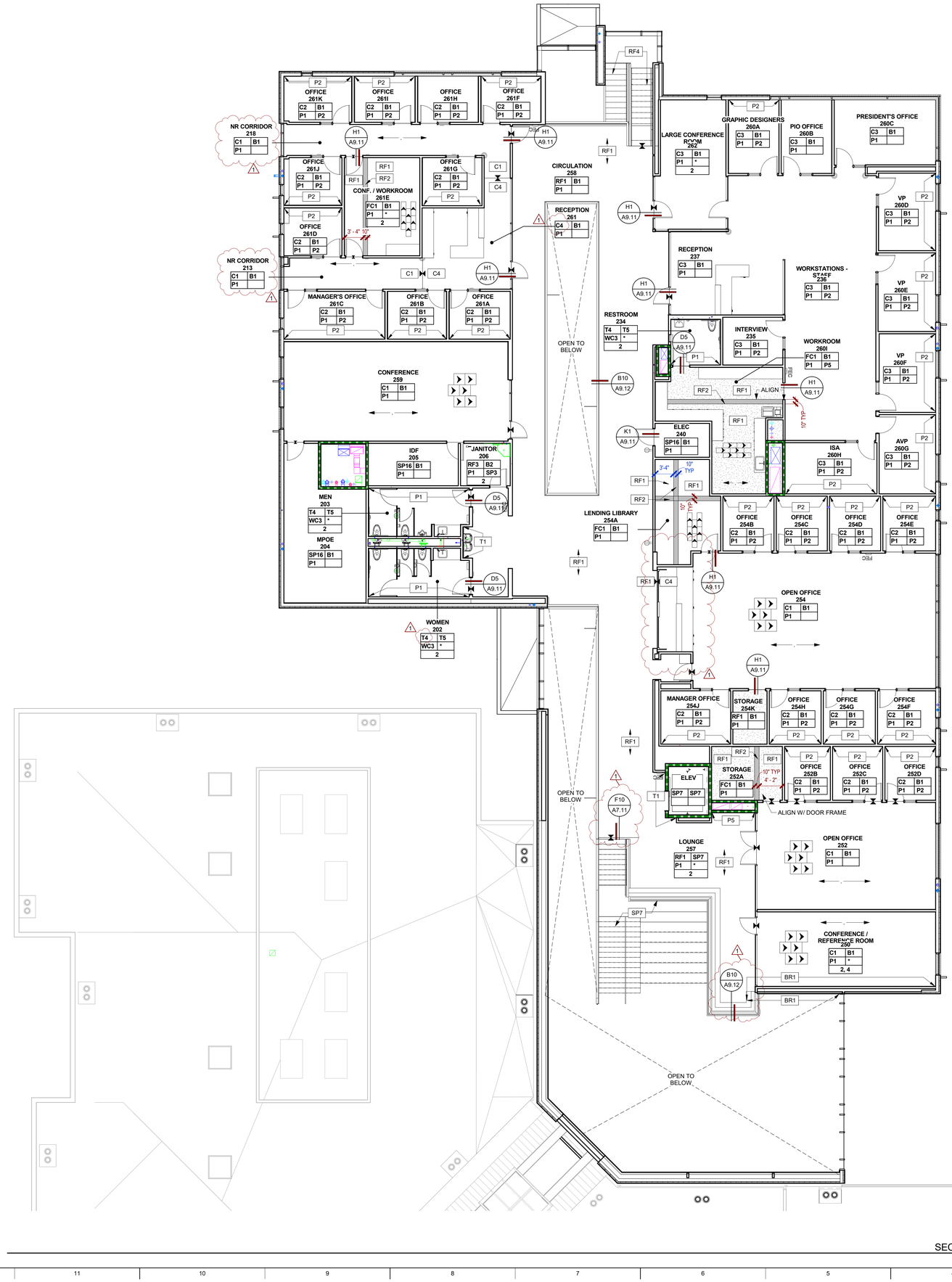
FIRST FLOOR FINISH PLAN - ADD ALTS

PROJECT NO: 201-0065
DATE: 01.15.2018

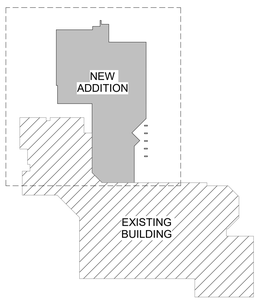
SHEET NO:

A2.31B

DSA SUBMITTAL II



SECOND FLOOR PLAN | K3
1/8" = 1'-0"



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- DIRECTION OF CARPET STRIPE
- ASHLAR RESILIENT INSTALLATION WITH DIRECTION OF PATTERN
- CORNER GUARD, SP3 — B3 / A9.11

FINISH TAG ROOM NOTES

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COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

RELEASED ARCHITECT — TROY PENNINGTON — C-31265 — 3-21-19 — STATE OF CALIFORNIA

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OFFICE OF REGULATION SERVICES

02-115990

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

SECOND FLOOR FINISH PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A2.32

DSA SUBMITTAL II

SIGNAGE SCHEDULE - FIRST FLOOR

MARK	SIGN TYPE	DESCRIPTION	DETAIL	COPY LINE 1	COPY LINE 2	COPY LINE 3	REMARKS
100.1	EXIT	SIGN - EXIT	H5/A2.44	-	TO EXIT	-	
100.2	NOT AN ENTRANCE	SIGN - ROOM IDENTIFICATION	B3/A2.44	NOT AN	ENTRANCE	-	
105.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	NOT AN ENTRANCE	-	
105.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	THE HUB	-	
105.3	EXIT	SIGN - EXIT	H5/A2.44	-	TO EXIT	-	
120.1	BUILDING ID	SIGN - ROOM IDENTIFICATION	K9/A2.44	-	COLLEGE CENTER	-	
120.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	
127.1	BUILDING ID	SIGN - ROOM IDENTIFICATION	K9/A2.44	-	COLLEGE CENTER	-	SEE ALSO H3/A2.44
127.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
127.5	BUILDING ID	SIGN - ROOM IDENTIFICATION	K9/A2.44	-	COLLEGE CENTER	-	SEE ALSO H3/A2.44
127.6	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
127.8	INFORMATIONAL	SIGN -INFORMATIONAL	B5/A2.44	MAXIMUM OCCUPANCY	175	PERSONS	
128.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	THE HUB	-	
129.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	FINANCIAL	AID	-	
129.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	OUTREACH	-	
129.4	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	FINANCIAL AID	-	
129.5	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	NOT AN ENTRANCE	-	
130.1	EXIT	SIGN - EXIT	H5/A2.44				
130.2	AUTHORIZED PERSONS ONLY	SIGN - ROOM IDENTIFICATION	D5/A2.44				
131.1	BUILDING ID	SIGN - ROOM IDENTIFICATION	K9/A2.44	-	COLLEGE CENTER	-	SEE ALSO H3/A2.44
131.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/WA2.44
131.3	Blade Sign	BLADE SIGN	B9/A2.44				9'-9" MOUNTING HEIGHT
131.4	Blade Sign	BLADE SIGN	B9/A2.44				9'-9" MOUNTING HEIGHT
131.5	Blade Sign	BLADE SIGN	B9/A2.44				
131.6	Blade Sign	BLADE SIGN	B9/A2.44				
131.7	Blade Sign	BLADE SIGN	B9/A2.44				
131.8	Blade Sign	BLADE SIGN	B9/A2.44				
131.9	Blade Sign	BLADE SIGN	B9/A2.44				
131.10	Blade Sign	BLADE SIGN	B9/A2.44				
131.11	Blade Sign	BLADE SIGN	B9/A2.44				
132.1	WOMENS	SIGN - RESTROOM WALL	F5/A2.44	-	WOMEN	-	
132.2	WOMENS DOOR	SIGN - RESTROOM DOOR	F3/A2.44	-	-	-	
133.1	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	
133.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	MECHANICAL	-	
134	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	FIRE	RISER	-	
135.1	MENS	SIGN - RESTROOM WALL	F5/A2.44	-	MEN	-	
135.2	MENS DOOR	SIGN - RESTROOM DOOR	F3/A2.44	-	-	-	
136.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	ELECTRICAL	-	
136.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	
136.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	MECHANICAL	-	
136.4	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	ELECTRICAL	-	
137	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	IDF	-	
138	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	CUSTODIAN	-	
139.1	UNISEX	SIGN - RESTROOM WALL	F5/A2.44	-	RESTROOM	-	
139.2	UNISEX DOOR	SIGN - RESTROOM DOOR	F3/A2.44				
147	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	-	EXIT ROUTE	-	
147.1	AUTHORIZED PERSONS ONLY	SIGN - ROOM IDENTIFICATION	D5/A2.44	-	NOT AN ENTRANCE	-	
149.1	AUTHORIZED PERSONS ONLY	SIGN - ROOM IDENTIFICATION	D5/A2.44	AUTHORIZED	PERSONS ONLY	-	
149.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONS ONLY	-	
149A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONS ONLY	-	SEE ALSO H3/A2.44
150.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	eSERVICES	-	SEE ALSO H3/A2.44
150.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	-	-	SEE ALSO H3/A2.44
150A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
150B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
150C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
150D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
150E	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	STORAGE	-	-	
150F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	
150G	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
150H	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
151A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
151B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
151D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
151E	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
151F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
154.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	GROUP	COUNSELING	-	SEE ALSO H3/A2.44
154.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	-	-	SEE ALSO H3/A2.44
154.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	GROUP	COUNSELING	-	SEE ALSO H3/A2.44
154.4	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE		-	SEE ALSO H3/A2.44
154.5	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	
154.6	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				
154.7	INFORMATIONAL	SIGN -INFORMATIONAL	B5/A2.44	MAXIMUM OCCUPANCY	50	PERSONS	
154A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
154B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
155.1	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	-	-	
155.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	
161	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	
161.1	BUILDING ID	SIGN - ROOM IDENTIFICATION	K9/A2.44	COLLEGE	CENTER	-	SEE ALSO H3/A2.44
161.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE			SEE ALSO H3/A2.44
161.4	FLOOR LEVEL	SIGN - ROOM IDENTIFICATION	H5/A0.41				
161A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	STORAGE	-	
161B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	
161D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161E	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	
161G.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	COPY / PRINT	-	
161G.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	COPY / PRINT	-	
161H	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161I	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161J	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161K	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161L	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161M	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161N	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161O	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
161P	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
162.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	TESTING	CENTER	EXIT ROUTE	SEE ALSO H3/A2.44
162.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
162.3	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
162.4	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	TESTING	CENTER	-	SEE ALSO H3/A2.44
162.5	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	EXAM	ROOM	-	SEE ALSO H3/A2.44
162A.1	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
162A.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
162A.3	NOT AN ENTRANCE	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
162A.4	INFORMATIONAL	SIGN -INFORMATIONAL	B5/A2.44	MAXIMUM OCCUPANCY	58	PERSONS	
162B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	INDIVIDUAL	TESTING	-	
162C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	INDIVIDUAL	TESTING	-	
162D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	INDIVIDUAL	TESTING	-	
167.1	UNISEX	SIGN - RESTROOM WALL	F5/A2.44	-	RESTROOM	-	
167.2	UNISEX DOOR	SIGN - RESTROOM DOOR	F3/A2.44				
179.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	CONFERENCE	-	-	SEE ALSO H3/A2.44
179.2	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				
182.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	GROUP	COUNSELING	-	
182.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	-	-	SEE ALSO H3/A2.44
182.3	NOT AN ENTRANCE	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	SEE ALSO H3/A2.44
183.2	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT ROUTE	-	
183.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	eSERVICES	-	
184	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	ELEVATOR	EQUIPMENT	-	
185	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	

SIGNAGE SCHEDULE - FIRST FLOOR ADD ALT #5

MARK	SIGN TYPE	DESCRIPTION	DETAIL	COPY LINE 1	COPY LINE 2	COPY LINE 3	REMARKS
130.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				ADD ALT #5
130.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				ADD ALT #5
151A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				ADD ALT #5
151B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				ADD ALT #5
151C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				ADD ALT #5

SIGNAGE SCHEDULE - SECOND FLOOR

MARK	SIGN TYPE	DESCRIPTION	DETAIL	COPY LINE 1	COPY LINE 2	COPY LINE 3	REMARKS
202.1	WOMENS	SIGN - RESTROOM WALL	F5/A2.44	-	WOMEN	-	
202.2	WOMENS DOOR	SIGN - RESTROOM DOOR	F3/A2.44	-	-	-	
203.1	MENS	SIGN - RESTROOM WALL	F5/A2.44	-	MEN	-	
203.2	MENS DOOR	SIGN - RESTROOM DOOR	F3/A2.44	-	-	-	
204	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	MPOE	-	
205	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	IDF	-	
206	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	CUSTODIAN	-	
234.1	UNISEX	SIGN - RESTROOM WALL	F5/A2.44				
234.2	UNISEX	SIGN - RESTROOM WALL	F5/A2.44				
235	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	VICE PRESIDENT	-	SEE ALSO H3/A2.44
237.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				
237.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE			
240	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	
250.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	REFERENCE	-	SEE ALSO H3/A2.44
252.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	CAREER /	TRANSFER	-	SEE ALSO H3/A2.44
252.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	EXIT	-	SEE ALSO H3/A2.44
252A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	STORAGE	-	
252B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
252C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
252D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	STUDENT	SUPPORT	-	
254.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE			
254A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	STORAGE	-	
254B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254E	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254G	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254H	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254J	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
254K	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	STORAGE	-	
256.2	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				
258.1	Blade Sign	BLADE SIGN	B9/A2.44				
258.2	EXIT STAIR DOWN	SIGN - EXIT	H9/A2.44	EXIT	STAIR	DOWN	
258.3	Blade Sign	BLADE SIGN	B9/A2.44				
258.4	Blade Sign	BLADE SIGN	B9/A2.44				
258.5	Blade Sign	BLADE SIGN	B9/A2.44				
258.6	Blade Sign	BLADE SIGN	B9/A2.44				
258.7	Blade Sign	BLADE SIGN	B9/A2.44				
258.8	Blade Sign	BLADE SIGN	B9/A2.44				
258.9	Blade Sign	BLADE SIGN	B9/A2.44				
258.10	Blade Sign	BLADE SIGN	B9/A2.44				
259.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	SEE ALSO H3/A2.44
259.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE		-	SEE ALSO H3/A2.44
259.3	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				
260A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	PIO OFFICE	-	SEE ALSO H3/A2.44
260B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	PIO OFFICE	-	SEE ALSO H3/A2.44
260C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	PRESIDENT	-	SEE ALSO H3/A2.44
260D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	VICE PRESIDENT	-	SEE ALSO H3/A2.44
260E	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	VICE PRESIDENT	-	SEE ALSO H3/A2.44
260F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	VICE PRESIDENT	-	SEE ALSO H3/A2.44
260G	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	ASSISTANT	VICE PRESIDENT	-	
260H	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
260I	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	VICE PRESIDENT	-	
261.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	AUTHORIZED	PERSONNEL	ONLY	
261.2	EXIT ROUTE	SIGN - EXIT ROUTE	H7/A2.44	EXIT ROUTE	EXIT	-	
261.3	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	COUNSELING	-	SEE ALSO H3/A2.44
261.4	EXIT	SIGN - EXIT	H5/A2.44	-	EXIT	-	SEE ALSO H3/A2.44
261A	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261B	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261C	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261D	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261E.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	CONFERENCE	-	
261E.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	-	CONFERENCE	-	
261E.3	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				
261F	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	
261G	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261H	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261I	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261J	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
261K	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44	OFFICE	-	-	SEE ALSO H3/A2.44
262.1	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				SEE ALSO H3/A2.44
262.2	ROOM ID	SIGN - ROOM IDENTIFICATION	B3/A2.44				SEE ALSO H3/A2.44
262.3	ASSISTIVE LISTENING	SIGN - ASSISTIVE LISTENING	F7/A2.44				SEE ALSO H3/A2.44
262.4	EXIT	SIGN - EXIT	H5/A2.44				SEE ALSO H3/A2.44
1091	Projector_Ceiling_Mount_8217	Projector with Ceiling Mount					
1107	Walk-Off Mat	Walkoff Mat w/ floor drain below					
EL1.1	FLOOR LEVEL	SIGN - ROOM IDENTIFICATION	H5/A0.41	ELEVATOR	EQUIPMENT	-	
EL1.2	FLOOR LEVEL	SIGN - ROOM IDENTIFICATION	H5/A0.41	ELEVATOR	EQUIPMENT	-	
EL2.1	FLOOR LEVEL	SIGN - ROOM IDENTIFICATION	H5/A0.41	-	2	-	
EL2.2	FLOOR LEVEL	SIGN - ROOM IDENTIFICATION	H5/A0.41	-	2	-	

SIGNS AND SYMBOLS

A. WHEN SIGNS IDENTIFY PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH SECTIONS 1 THRU 5 BELOW.

B. WHEN SIGNS DIRECT TO OR GIVE INFORMATION ABOUT PERMANENT ROOMS AND SPACES OF A BUILDING OR SITE, THEY SHALL COMPLY WITH SECTIONS 1 & 2 BELOW.
CHARACTER HEIGHT SHALL BE SIZED ACCORDING TO TABLE IN CBC SECTION 11B-703.

C. WHEN SIGNS IDENTIFY, DIRECT OR GIVE INFORMATION ABOUT ACCESSIBLE ELEMENTS AND FEATURES, THEY SHALL COMPLY WITH SECTION 1 BELOW. CHARACTER HEIGHT SHALL BE SIZED ACCORDING TO TABLE IN CBC SECTION 11B-703.

D. WHEN SIGNS IDENTIFY SANITARY FACILITIES, THEY SHALL COMPLY WITH SECTION 3 AND SANITARY FACILITIES SECTION BELOW.

1. FINISH & CONTRAST: CHARACTERS, SYMBOLS & THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH. CHARACTERS & SYMBOLS SHALL CONTRAST A MIN. OF 70% WITH THEIR BACKGROUND, EITHER LIGHT ON DARK BACKGROUND OR DARK ON LIGHT BACKGROUND.

2. PROPORTIONS. CHARACTERS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60 PERCENT MINIMUM AND 100 MAXIMUM OF THE HEIGHT OF THE UPPERCASE "T".

3. RAISED CHARACTERS & PICTORIAL SYMBOL SIGNS: WHEN RAISED CHARACTERS ARE REQUIRED OR WHEN PICTORIAL SYMBOLS ARE USED ON SIGNS, THEY SHALL CONFORM TO THE FOLLOWING a. THRU d.

a. CHARACTERS ON SIGNS SHALL BE RAISED 1/32" (0.794mm) MIN. AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE ITEM 4 BELOW)

b. CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MIN. OF 5/8" (15.9mm) AND A MAX. OF 2" (51mm) HIGH.

c. PICTORIAL SYMBOL SIGNS (PICTOGRAMS): PICTORIAL SYMBOL SIGNS (PICTOGRAMS) SHALL BE ACCOMPANIED BY THE VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE OUTSIDE DIMENSION OF THE PICTOGRAM FIELD SHALL BE A MIN. OF 6" (152mm) IN HEIGHT.

d. CHARACTER PLACEMENT: CHARACTERS AND BRAILLE SHALL BE IN HORIZONTAL FORMAT. BRAILLE SHALL BE PLACED A MIN. OF 3/8" & A MAX. OF 1/2" DIRECTLY BELOW THE TACTILE CHARACTERS; FLUSH LEFT OR CENTERED. WHEN TACTILE TEXT IS MULTI-LINED, ALL BRAILLE SHALL BE PLACED TOGETHER BELOW ALL LINES OF TACTILE TEXT.

4. BRAILLE. CONTRACTED GRADE 2 BRAILLE SHALL BE USED WHEREVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. REFER TO CBC TABLE 11B-703.3.1 FOR ADDITIONAL INFORMATION. BRAILE DIMENSION SHALL MEET ALL OF THE FOLLOWIN;
   - A. DOT BASE DIAMETER FROM 0.059” MIN. TO 0.063” MAX.
   - B. DISTANCE BETWEEN TWO DOTS IN SAME CALL 0.100”
   - C. DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CALLS 0.300”
   - D. DOT HEIGHT 0.025 MIN. AND 0.037” MAX.
   - E. DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW 0.395 MIN. AND 0.400 MAX.

5. MOUNTING LOCATION & HEIGHT. WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL, PREFERABLY ON THE RIGHT. MOUNTING HEIGHT SHALL BE 60" (1524mm) ABOVE THE FINISH FLOOR TO THE CENTER LINE OF THE SIGN. MOUNTING LOCATION SHALL BE DETERMINED SO THAT A PERSON MAY APPROACH WITHIN 3" (76mm) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.

SANITARY FACILITIES

A. RESTROOM IDENTIFICATION SYMBOL:
DOORWAYS LEADING TO MEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY AN EQUILATERAL TRIANGLE, 1/4 INCH THICK WITH EDGES 12 INCHES LONG AND THE VERTEX POINTING UPWARD. DOORWAYS LEADING TO WOMEN'S SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK AND 12 INCHES IN DIAMETER. GEOMETRIC (CIRCLE AND TRIANGLE) SYMBOLS ON SANITARY FACILITY DOORS SHALL BE CENTERED ON THE DOOR AT A HEIGHT OF 60" AND THEIR COLOR AND CONTRAST SHALL BE DISTINCTLY DIFFERENT FROM THE COLOR AND CONTRAST OF THE DOOR. NO TEXT OR I.S.A. IS REQUIRED.
UNISEX SANITARY FACILITIES SHALL BE IDENTIFIED BY A CIRCLE 1/4 INCH THICK AND 12 INCHES IN DIAMETER WITH A 1/4" THICK TRIANGLE SUPERIMPOSED ON THE CIRCLE AND WITHIN THE 12 INCH DIAMETER. THE TRIANGLE SYMBOL SHALL CONTRAST WITH THE CIRCLE BACKGROUND AND THE CIRCLE SHALL CONTRAST WITH THE DOOR.
EDGES AND VERTICES ON GEOMETRIC SYSMBOLS SHALL BE CHAMFERED AT 1/8" MAX. VERTICES SHALL BE RADIUSED BETWEEN 1/8" MIN. AND 1/4" MAX. REFER TO CBC 11B-703.7.2.6.4 FOR ADDITIONAL INFORMATION.

STAIRS / ELEVATORS

1. TACTILE FLOOR IDENTIFICATION: TACTILE FLOOR IDENTIFICATION SIGNS SHALL BE LOCATED AT EACH FLOOR LANDING IN ALL ENCLOSED STAIRWAYS IN BUILDINGS WITH TWO OR MORE STORIES. AT EXIT LEVEL DISCHARGE LEVEL, THE SIGN SHALL INCLUDE A RAISED FIVE-POINTED STAR LOCATED TO THE LEFT OF THE IDENTIFYING FLOOR LEVEL.

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

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5-31-19
RENEWAL DATE

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APPROVAL

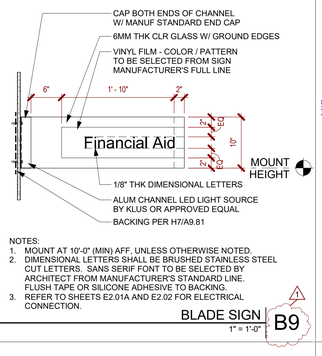
THIS DRAWING IS NOT FINAL OR TO BE USED FOR CONSTRUCTION UNTIL IT IS SIGNED BY THE ARCHITECT AND ENGINEER.

CONSULTANT

SIGNAGE SCHEDULES

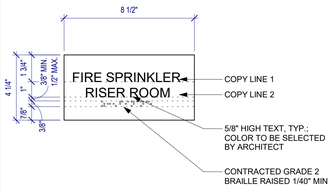
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A2.43



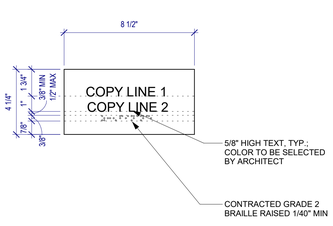
NOTES:
1. MOUNT AT 10'-0" (MIN) AFF, UNLESS OTHERWISE NOTED.
2. DIMENSIONAL LETTERS SHALL BE BRUSHED STAINLESS STEEL CUT LETTERS. SANS SERIF FONT TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD LINE. FLUSH TAPE OR SILICONE ADHESIVE TO BACKING.
3. REFER TO SHEETS E2.01A AND E2.02 FOR ELECTRICAL CONNECTION.

BLADE SIGN B9
1" = 1'-0"



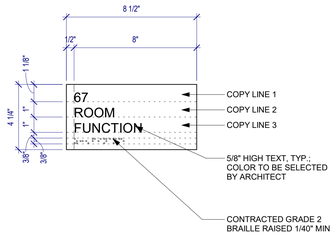
NOTE: SEE DETAIL B1 A2.44 FOR ADDITIONAL INFORMATION

SIGN - FIRE RISER B7
3" = 1'-0"



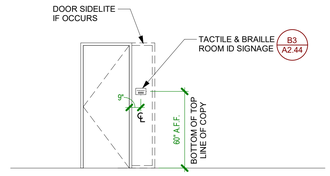
NOTE: SEE DETAIL B1 A2.44 FOR ADDITIONAL INFORMATION

SIGN - INFORMATION B5
3" = 1'-0"

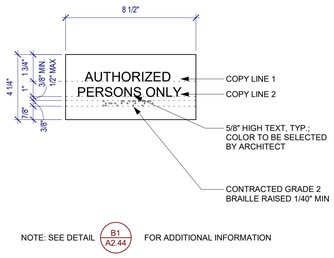


NOTE: SEE DETAIL B1 A2.44 FOR ADDITIONAL INFORMATION

SIGN - ROOM IDENTIFICATION B3
3" = 1'-0"

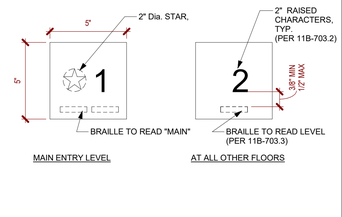


ROOM ID SIGNAGE LOCATION B1
1/4" = 1'-0"



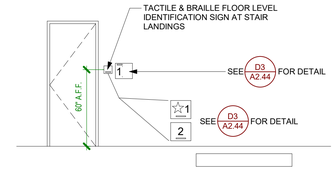
NOTE: SEE DETAIL B1 A2.44 FOR ADDITIONAL INFORMATION

SIGN - AUTHORIZED PERSONS ONLY D5
3" = 1'-0"

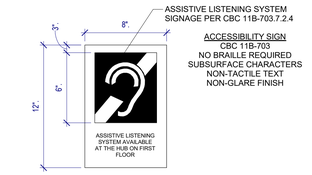


NOTES;
1. FLOOR DESIGNATION SIGNS SHALL BE PLACED ON BOTH SIDES OF JAMBS,
2. RAISED CHARACTORS, INCLUDING THE STAR, SHALL BE WHITE ON A BLACK BACKGROUND.

SIGN - FLOOR LEVEL DESIGNATION D3
3" = 1'-0"

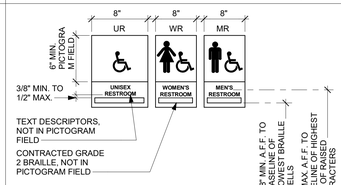


TACTILE FLOOR DESIGNATION SIGN D1
1/4" = 1'-0"



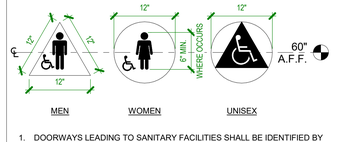
1. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6" MIN IN HEIGHT, CBC 11B-703.6
2. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND; EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
3. SIGNAGE TO BE 1/4" THICK ACRYLIC
4. LETTERING TO BE UPPERCASE CHARACTERS. HEIGHT OF LETTERING SHALL BE 5/8" MIN TO 2" MAX.
5. BRAILLE NOT REQUIRED.

SIGN - ASSISTIVE LISTENING SYMBOL F7
1" = 1'-0"



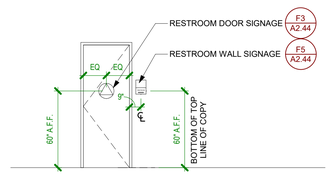
1. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND MIN. 70%, EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
2. SIGNAGE TO BE 3/8" CLEAR ACRYLIC WITH A NON-GLARE FINISH BACKPAINT TO MATCH COLOR SELECTED BY ARCHITECT, U.O.N.
3. LETTERING TO BE UPPERCASE SANS SERIF FONT CHARACTERS. HEIGHT OF LETTERING 5/8" MIN. TO 2" MAX. COLOR SHALL BE SELECTED BY ARCHITECT, U.O.N. 70% MIN CONTRAST.
4. CONTRACTED GRADE 2 BRAILLE SHALL BE PROVIDED TO COINCIDE WITH WORDING OF SIGN AND COMPLY WITH CBC 11B-703.3.

SIGN - RESTROOM WALL F5
1" = 1'-0"

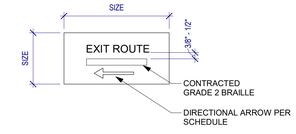


1. DOORWAYS LEADING TO SANITARY FACILITIES SHALL BE IDENTIFIED BY A GEOMETRIC SYMBOL IN A COLOR THAT CONTRASTS TO THE DOOR ON WHICH IT IS HUNG, EITHER A LIGHT COLOR ON A DARK DOOR OR A DARK COLOR ON A LIGHT DOOR. THE GEOMETRIC SYMBOL SHALL BE CENTERED HORIZONTALLY ON THE DOOR AT A HEIGHT OF 60" ABOVE THE FINISH FLOOR MEASURED TO THE CENTER OF THE SYMBOL.
2. EDGES OF SYMBOL SHALL BE ROUNDED, CHAMFERED, OR EASED. CORNERS SHALL HAVE A MINIMUM RADIUS OF 1/8".
3. SIGNAGE TO BE 1/4" THICK ACRYLIC (OR APPROVED MATERIAL.)
4. SYMBOLS SHALL HAVE A NONGLARE FINISH.
5. LETTERING, I.S.A., AND GENDER SYMBOLS ARE NOT REQUIRED ON THE GEOMETRIC SYMBOL, BUT WHEN PROVIDED THEY SHALL CONTRAST WITH THEIR BACKGROUND; EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

SIGN - RESTROOM DOOR F3
1" = 1'-0"

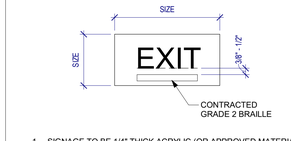


RESTROOM SIGNAGE LOCATION F1
1/4" = 1'-0"



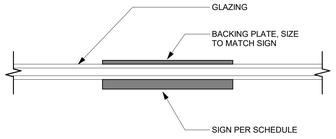
1. SIGNAGE TO BE 1/4" THICK ACRYLIC (OR APPROVED MATERIAL.)
2. SYMBOLS SHALL HAVE A NONGLARE FINISH.
3. LETTERING SHALL CONTRAST WITH BACKGROUND; EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

SIGN - TACTILE EXIT ROUTE H7
1" = 1'-0"

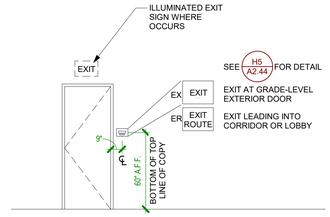


1. SIGNAGE TO BE 1/4" THICK ACRYLIC (OR APPROVED MATERIAL.)
2. SYMBOLS SHALL HAVE A NONGLARE FINISH.
3. LETTERING SHALL CONTRAST WITH BACKGROUND; EITHER LIGHT ON A DARK BACKGROUND OR DARK ON A LIGHT BACKGROUND.

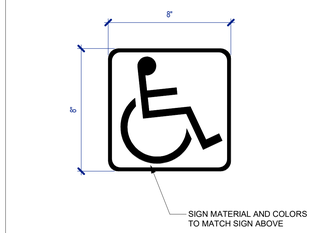
SIGN - TACTILE EXIT H5
1" = 1'-0"



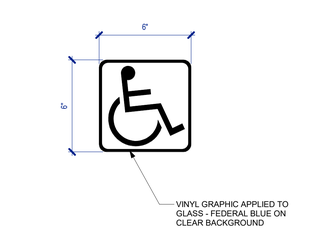
SIGN AT GLAZING H3
3" = 1'-0"



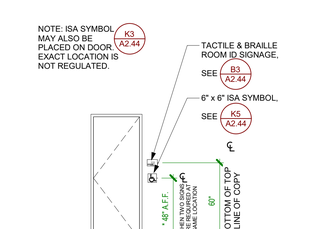
SIGN - REQUIRED EXIT DOOR H1
1/4" = 1'-0"



SIGN - ISA WALL SIGN K5
3" = 1'-0"



SIGN - ISA DOOR APPLIQUE K3
3" = 1'-0"



SIGN - BUILDING ENTRANCE / ISA K1
1/4" = 1'-0"

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CONSULTANT

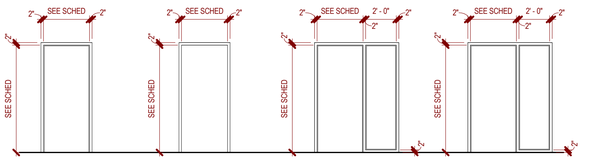
SIGNS AND SYMBOLS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

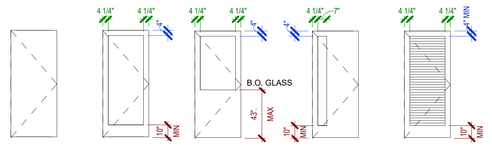
A2.44

DSA SUBMITTAL II

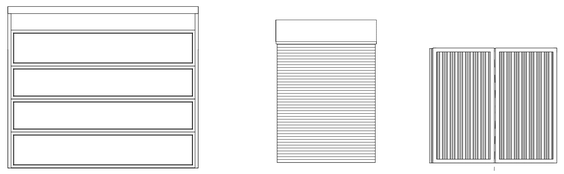


S STANDARD - DOUBLE RABBET
F FLUSH - NO RABBET
SV STANDARD - DOUBLE RABBET W/ SIDELITE
SF STOREFRONT

DOOR FRAME TYPES
1/4" = 1'-0"



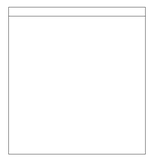
F FLUSH
FV FULL VISION
SFM-FV STOREFRONT FULL VISION
HV HALF VISION
NV NARROW VISION
L LOUVERED



SD - SECTIONAL DOOR

OSD - OVERHEAD SECURITY DOOR OR FIRE DOOR

GATE



FC - FIRE CURTAIN

DOOR TYPES
1/4" = 1'-0"

FIRE CURTAIN SCHEDULE

DOOR #	W	H	TYPE	FRAME FINISH	FRAME HEAD	FRAME JAMB	RATING FIRE	REMARKS
105.2	14'-0"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
105.3	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
105.4	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
105.5	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
127.5	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
127.6	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
127.7	8'-10 1/2"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
127.12	14'-0"	9'-0"	FC	FF	F10/A9.11	H7/A9.11	120 MIN	1
149.1	9'-0"	9'-0"	FC	FF	K8/A9.10	K7/A9.11	120 MIN	1
149.2	9'-0"	9'-0"	FC	FF	K8/A9.10	K7/A9.11	120 MIN	1
151.2	9'-0"	9'-0"	FC	FF	K8/A9.10	K7/A9.11	120 MIN	1
151.3	9'-0"	9'-0"	FC	FF	K8/A9.10	K7/A9.11	120 MIN	1

NOTE:
1. FIRE CURTAINS ARE BETWEEN (E) BRICK PILASTERS AND THEREFORE THE WIDTH SHALL BE VERIFIED IN THE FIELD.

DOOR SCHEDULE - FIRST FLOOR

DOOR #		W	H	THICK	TYPE	MATL	FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME THRESH	RATING FIRE	RATING STC	HDW GROUP	REMARKS
105.1		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	FF	B1/A9.53	B1/A9.53	-	120 MIN		02	PAINT DOOR & TRIM ADJACENT WALL COLOR. PROVIDE PANIC HARDWARE
127.1	Pair	3' - 0"	9' - 0 1/2"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	H11/A8.31	K11/A8.31	K7/A8.33			03	PROVIDE PANIC HARDWARE
127.3	Pair	3' - 0"	8' - 11 1/4"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	H11/A8.31	K11/A8.31	K7/A8.33			04	PROVIDE PANIC HARDWARE
127.4		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P				120 MIN		01	
127.8		8' - 11 1/4"	9' - 0"		OSD									120		05	
127.9		8' - 11 1/4"	9' - 0"		OSD									120		05	
127.10		8' - 11 1/4"	9' - 0"		OSD									120		05	
127.11		8' - 11 1/4"	9' - 0"		OSD									120		05	
130.1	Pair	3' - 0"	7' - 0"	1 3/4"	F	HM	P	S	HM	P	B1/A9.53	B1/A9.53	-	120			
131	Pair	3' - 0"	8' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	H11/A8.31	K11/A8.31	K7/A8.33			03	PROVIDE PANIC HARDWARE
132		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			08	
133		3' - 0"	7' - 0"	1 3/4"	F	HM	P	S	HM	P	B9/A8.20	B11/A8.20	H7/A8.33	20 MIN		09	
134		3' - 0"	7' - 0"	1 3/4"	F	HM	FF	S	HM	P	B9/A8.20	B11/A8.20	H7/A8.33			10	PAINT DOOR TO MATCH ADJACENT ALUMINUM COMPOSITE PANEL SYSTEM
135		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			08	
136.1		3' - 0"	7' - 0"	1 3/4"	F	HM	FF	S	HM	P	B9/A8.20	B11/A8.20	H7/A8.33	45 MIN		09	PAINT DOOR TO MATCH ADJACENT ALUMINUM COMPOSITE PANEL SYSTEM. PROVIDE PANIC HARDWARE
136.2		3' - 0"	7' - 0"	1 3/4"	F	HM	S	S	HM	P	B1/A9.53	B1/A9.53	-	45 MIN		11	
136.3		3' - 0"	7' - 0"	1 3/4"	F	HM	S	S	HM	P	B1/A9.53	B1/A9.53	-	45 MIN		12	
138		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			13	
139		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			14	
144.1		0"			SD						C1/A9.54	G1/A9.54	E1/A9.54				
144.2		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			16	
149		3' - 0"	7' - 0"	1 3/4"	F	HM	P	S	HM	P	B1/A9.53	B1/A9.53		20 MIN		06	
150A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
150B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
150C		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
150D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
150E		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15A	
150F		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15	
150G		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			06	
150H		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			06	
151.1		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-	90 MIN		07	
151E		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			15A	
151F		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			15	
154.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			02A	WITH PANIC HARDWARE
154.2		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			20	WITH PANIC HARDWARE
154A		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			06	
154B		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			06	
155		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			15A	
161	Pair	3' - 0"	8' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	H11/A8.31	K11/A8.31	K7/A8.33			04	PROVIDE PANIC HARDWARE
161A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15	
161B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161C		3' - 0"	7' - 0"	1 3/4"	NV	HM	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161E		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161F		3' - 0"	7' - 0"	1 3/4"	NV	HM	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161H		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161I		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161J		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161K		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161L		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161M		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161N		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161O		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
161P		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
162.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			17	
162.2		3' - 0"	8' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	K4/A8.33	B1/A8.33	H7/A8.33			18	
162A.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			02A	PROVIDE PANIC HARDWARE
162A.2		3' - 0"	8' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	K4/A8.33	B1/A8.33	H7/A8.33			19	PROVIDE PANIC HARDWARE
162B		3' - 0"	7' - 0"	1 3/4"	FV	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			21	
162C		3' - 0"	7' - 0"	1 3/4"	FV	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			21	
162D		3' - 0"	7' - 0"	1 3/4"	FV	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			21	
167		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			22	
174.3		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			16A	
179		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			23	
182		3' - 0"	8' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	K4/A8.33	B1/A8.33	H7/A8.33			19	PROVIDE PANIC HARDWARE
183.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			02A	PROVIDE PANIC HARDWARE
183.2	Pair	3' - 0"	7' - 6"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			24	
184		3' - 6"	7' - 0"	1 3/4"	F	HM	P	S	HM	P	B1/A9.53	B1/A9.53	-	60 MIN		25	
185		3' - 0"	7' - 0"	1 3/4"	F	HM	P	S	HM	P	B1/A9.53	B1/A9.53	-	20 MIN		25	

DOOR SCHEDULE - FIRST FLOOR ADD ALT #1

DOOR #		W	H	THICK	TYPE	MATL	FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME THRESH	RATING FIRE	RATING STC	HDW GROUP	REMARKS
127		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	FF						06	ADD ALT #1
130		3' - 0"	7' - 11"	1 3/4"	SFG-FV	AL	FF	SF	AL	FF						23A	ADD ALT #1
151C		3' - 0"	7' - 0"	1 3/4"	F	HM	P	S	HM	FF				20 MIN		06	ADD ALT #1

DOOR SCHEDULE - SECOND FLOOR

DOOR #		W	H	THICK	TYPE	MATL	FINISH	FRAME TYPE	FRAME MATL	FRAME FINISH	FRAME HEAD	FRAME JAMB	FRAME THRESH	RATING FIRE	RATING STC	HDW GROUP	REMARKS
202		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			08	
203		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			08	
204		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15	
205		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			11A	
206		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			13	
234		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	FF	B1/A9.53	B1/A9.53	-			22	
235		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	AL	FF	B5/A9.53	B5/A9.53	-			06	
237		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			17	
240		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53				15	
252	Pair	3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			27	
252A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15	
252B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
252C		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
252D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254.1		0"	0"		SD						C1/A9.54	G1/A9.54	E1/A9.54				
254.2		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	FF	B1/A9.53	B1/A9.53	-			17B	
254A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06A	
254B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254C		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254E		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254F		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254G		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254H		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254J		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
254K		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			15	
256		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			20	
259		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	F9/A9.53	-			20	
260A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	AL	FF	B5/A9.53	B5/A9.53	-			06	
260B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
260C		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
260D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
260E		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
260F		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
260G		3' - 0"	7' - 0"	1 3/4"	HV	WD	S	S	AL	FF	B5/A9.53	B5/A9.53	-			06	
260H		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	AL	FF	B5,B3/A9.53	B5,D5/A9.53	-			06	
261.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			20A	
261.2		3' - 0"	7' - 0"	1 3/4"	F	WD	P	S	HM	P	B1/A9.53	B1/A9.53	-			16A	
261A		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261B		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261C.1		3' - 0"	7' - 0"	1 3/4"	F	WD	S	SV	HM	P	B1/A9.53	B1/A9.53	-			06	
261C.2		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261D		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261E.1		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261E.2		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261F		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261G		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261H		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261I		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261J		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
261K		3' - 0"	7' - 0"	1 3/4"	F	WD	S	S	HM	P	B1/A9.53	B1/A9.53	-			06	
262.1		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			23	
262.2		3' - 0"	7' - 0"	1 3/4"	SFM-FV	AL	FF	SF	AL	FF	B9/A9.53	D9/A9.53	-			17A	
301	Pair	4' - 0 1/2"	8' - 0"		GATE	STL	P	POST	STL	P	-	F7/A8.12	-			28	
302	Pair	3' - 0 1/2"			GATE	STL	P	POST	STL	P	-	F7/A8.12	-			28	
303	Pair	4' - 0 1/2"	8' - 0"		GATE	STL	P	POST	STL	P	-	F7/A8.12	-			28	

DOOR SCHEDULE GENERAL NOTES

1. MATCH EXISTING BUILDING KEYING SYSTEM. CONSULT WITH OWNER FOR KEYWAY TYPES REQUIRED.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL RATED DOORS ARE TO BE POSITIVE LATCHING AND SELF-CLOSING.
4. "LABEL" SHALL MEAN "FIRE ASSEMBLY" AS DEFINED IN 2016 CBC SECTION 716.5.
5. FIRE DOORS AND FIRE WINDOWS SHALL HAVE AN APPROVED LABEL OR LISTING MARK INDICATING THE FIRE PROTECTION RATING, WHICH IS PERMANENTLY AFFIXED AT THE FACTORY WHERE FABRICATION AND ASSEMBLY ARE DONE. (2016 CBC SECTIONS 716.5.7.1 AND 716.5.8.3)
6. ALL 60-MINUTE RATED ASSEMBLIES SHALL BE PROVIDED WITH APPROVED GASKETING MATERIAL SO INSTALLED TO PROVIDE A SEAL WHERE THE DOOR MEETS THE STOP ON BOTH SIDES AND ACROSS THE TOP. THE DOOR AND FRAME SHALL BEAR AN APPROVED LABEL OR OTHER IDENTIFICATION SHOWING THE RATING THEREOF, FOLLOWED BY THE LETTER "S". (2016 CBC SECTIONS 716.5.7.3)
7. FIRE RATED DOOR FRAMES SHALL BE INSTALLED STRICTLY PER MANUFACTURER'S PRINTED INSTRUCTIONS. (NFPA 80.)
8. ROOMS NOTED AS INCIDENTAL USE AREAS SHALL HAVE DOORS THAT ARE SELF-CLOSING OR AUTOMATIC-CLOSING UPON DETECTION OF SMOKE. DOORS SHALL NOT HAVE AIR TRANSFER OPENINGS AND SHALL NOT BE UNDERCUT IN EXCESS OF THE CLEARANCE PERMITTED IN ACCORDANCE WITH NFPA 80, TABLE 1-11.4.
9. ALL HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. HARDWARE SHALL BE CENTERED BETWEEN 34" AND 44" ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION. (2016 CBC 11B-309)
10. DOOR UNDERCUTS SHALL NOT EXCEED MAXIMUM ALLOWABLE DIMENSION PER NFPA 80.
11. ANY REQUIRED EGRESS DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE SHALL BE PROVIDED WITH PANIC HARDWARE.

ILLUMINATED EXIT SIGN NOTES

1. EXIT DOORS, EXCEPT FOR MAIN EXIT DOORS THAT ARE OBVIOUSLY AND CLEARLY IDENTIFIABLE AS EXITS, SHALL BE MARKED WITH AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL.
2. EXIT ACCESS DOORS SHALL BE MARKED WITH AN APPROVED EXIT SIGN READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. EXIT SIGNS ARE NOT REQUIRED IN ROOMS OR AREAS THAT REQUIRE ONLY ONE EXIT OR EXIT ACCESS.
3. EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN A CORRIDOR IS MORE THAN 100 FEET, OR THE LISTED VIEWING DISTANCE OF THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE SIGN.
4. ILLUMINATED EXIT SIGNS ARE SHOWN ON THE ARCHITECTURAL CEILING PLAN FOR REFERENCE ONLY. REFER TO ELECTRICAL PLANS FOR SIGNS.
5. TACTILE EXIT SIGNS ARE REQUIRED WHERE ILLUMINATED EXIT SIGNS ARE PROVIDED.

DOOR FINISH LEGEND

F.F. FACTRY FINISH
S STAINED
P PAINTED

1. PAINTED DOORS AND FRAMES TO BE PAINTED P3; REFER TO FINISH LEGEND ON SHEET A2.30
2. STAINED DOORS TO MATCH PL1; REFER TO FINISH LEGEND ON SHEET A2.30

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY DENNINGTON
C-31285
RENEWAL DATE 8-31-19
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

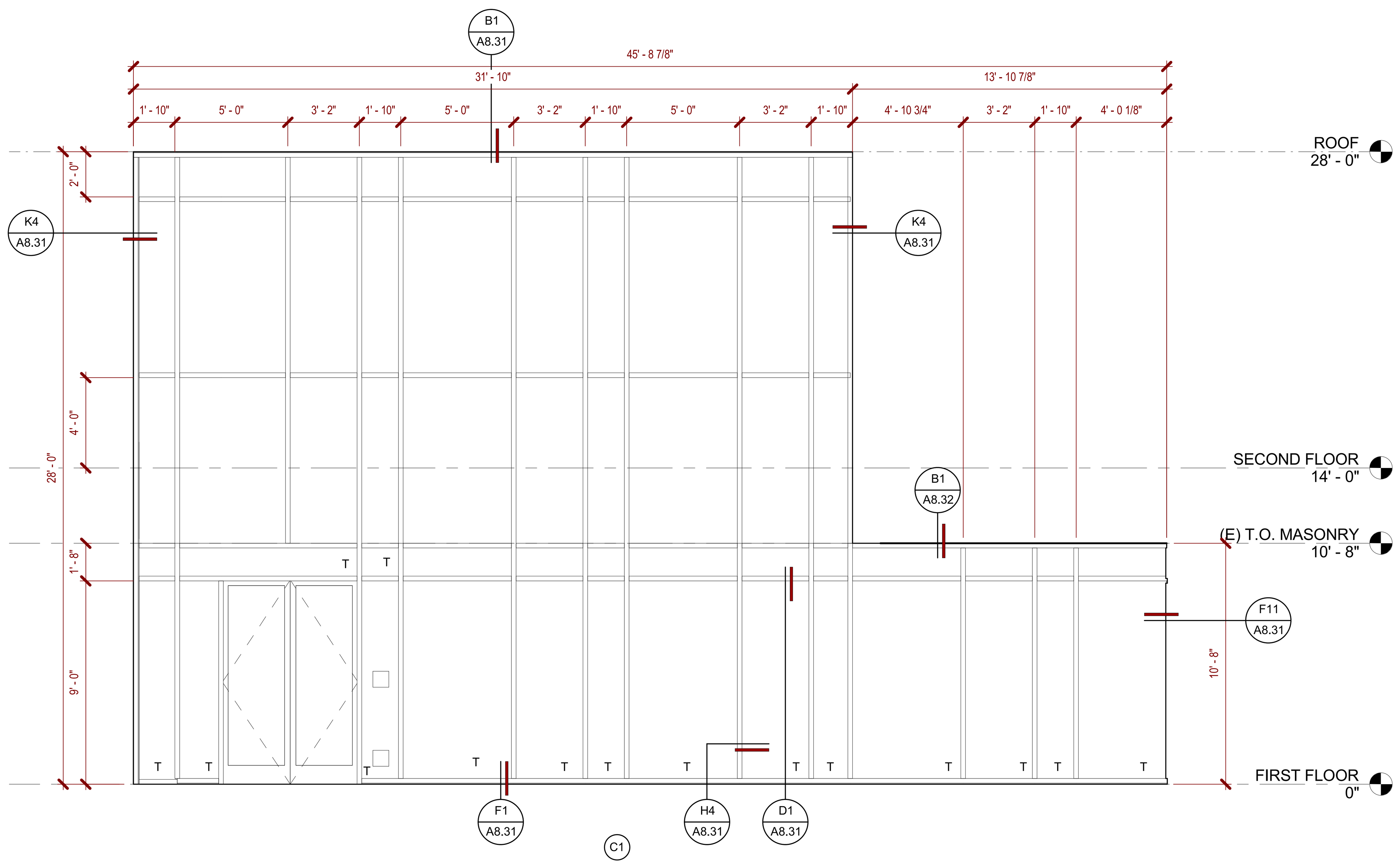
DOOR SCHEDULES

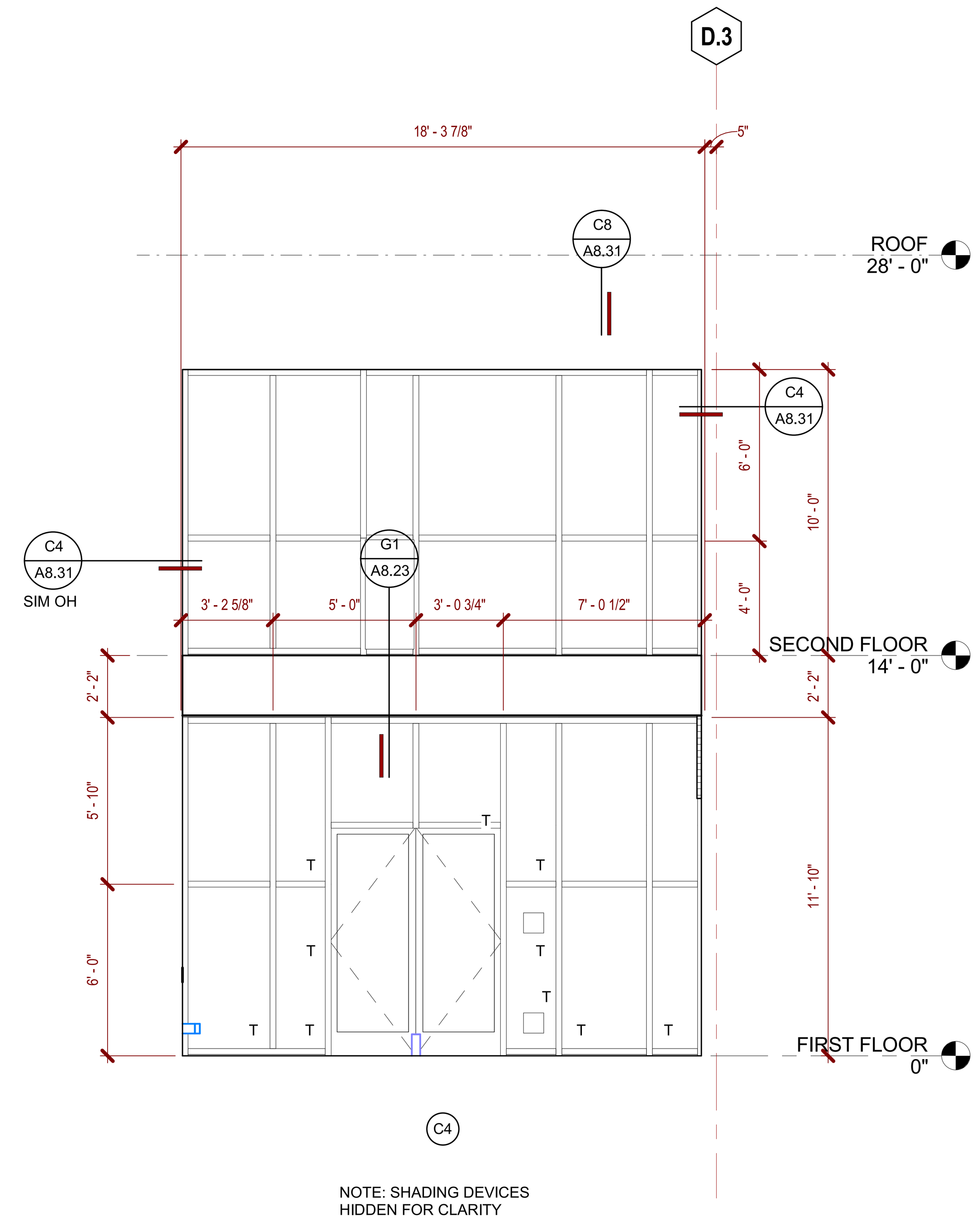
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

A2.81

DSA SUBMITTAL II





CURTAINWALL ELEVATIONS GENERAL NOTES

1. PROVIDE TEMPERED GLAZING WHERE REQUIRED BY CBC SECTION 2406.
2. UNLESS OTHERWISE NOTED, VISION GLAZING SHALL BE 1" INSULATED GLAZING ASSEMBLY.

3.A CONTRACTOR TO PROVIDE STANDARD CURTAIN WALL SUBMITTAL FOR CURTAIN WALL LESS THAN 10'-0" IN HIEGHT.

3.B CONTRACTOR TO PROVIDE SEPARATE SUBMITTAL FOR CUTAIN WALL 10'-0" OR MORE IN HIEGHT. (THIS SUBMITTAL MUST BE REVIEWED AND APROVED BY DSA)

3.C REFER TO SPECIFICATION SECTION 08 44 13 FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

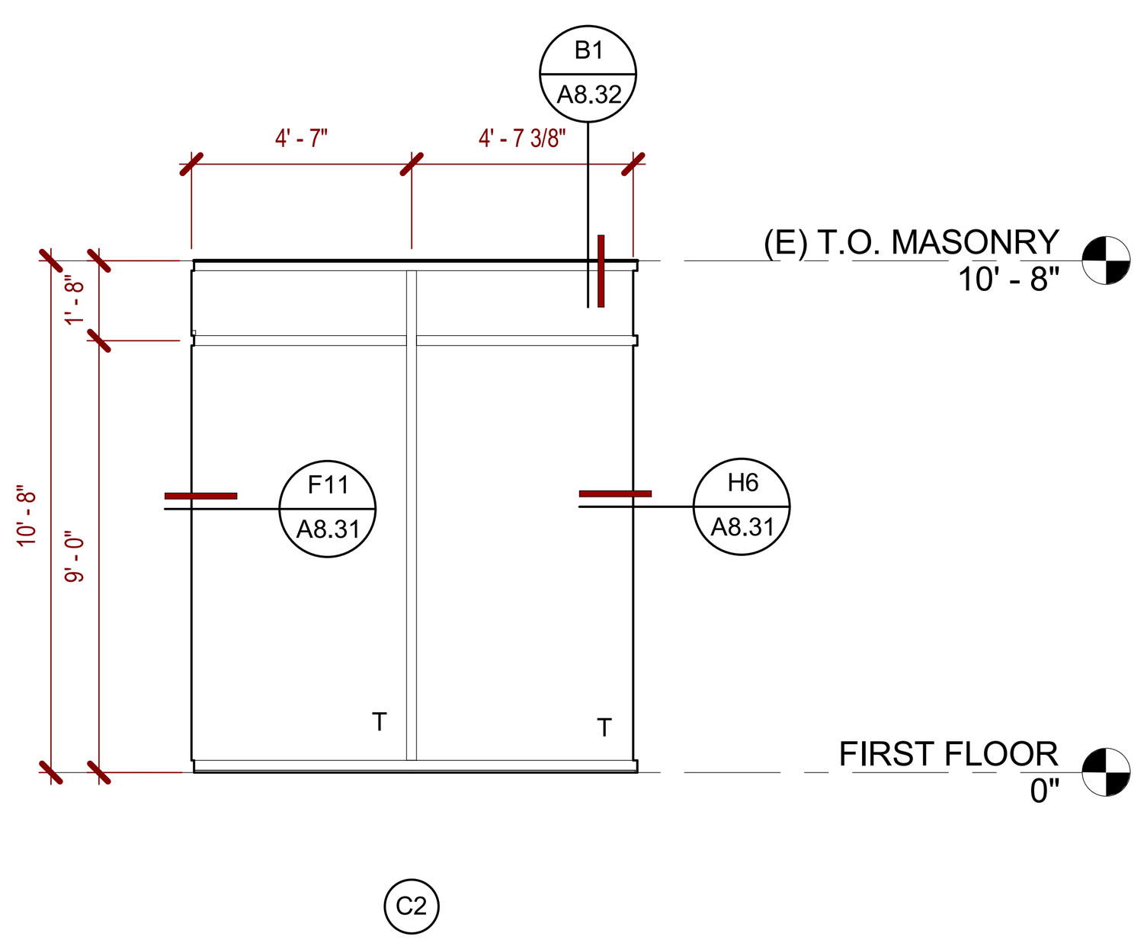
GLAZING LEGEND

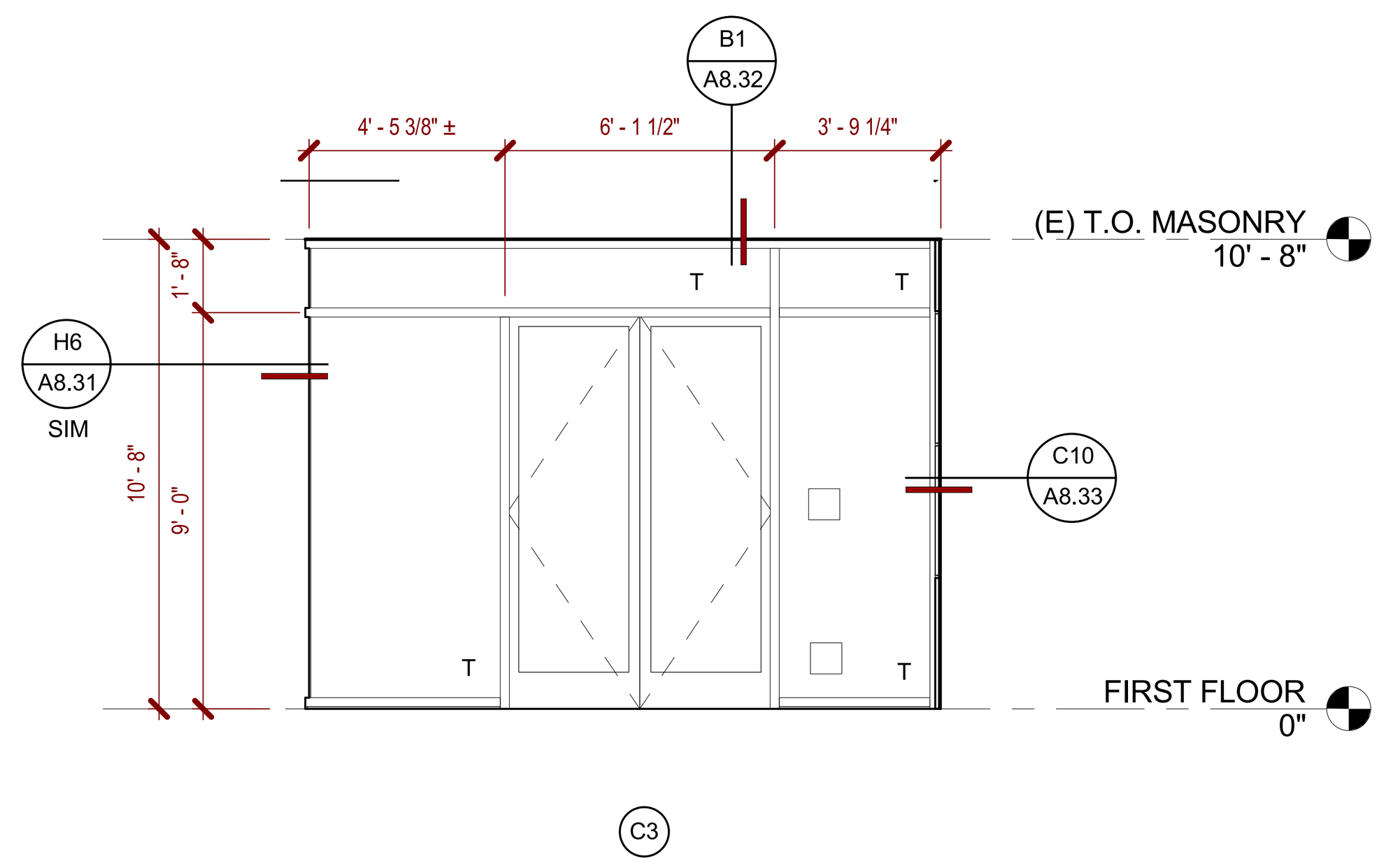
VISION GLAZING - TYPE PER SPECIFICATIONS

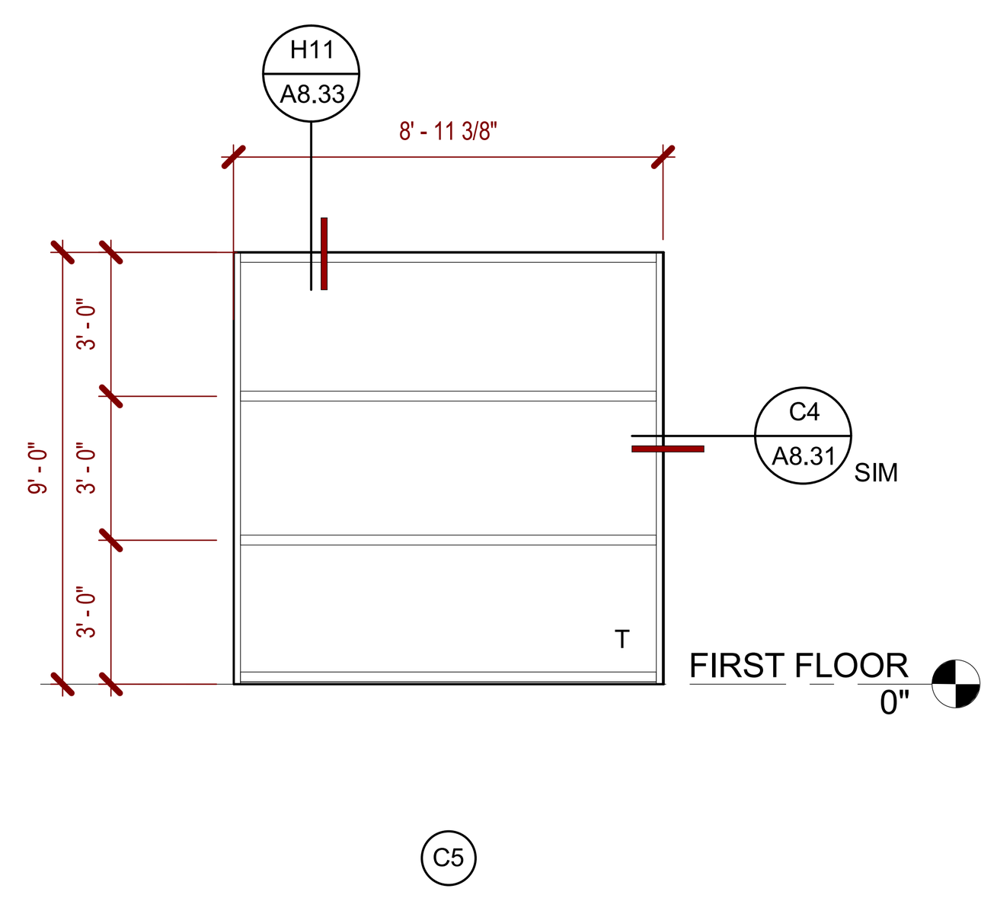
SPANDREL GLAZING - COLOR PER SPECIFICATIONS

ALUMINUM COMPOSITE INFILL PANEL

PANEL INDICATED WITH A 'T' SHALL BE SAFETY GLAZING IN COMPLIANCE WITH CBC 2406.4







ADDITIONAL REQUIREMENTS - DSA IR 24-2:

SECTION 2410 [DSA-SS, DSA-SS/CC, OSHPD 1 & 4] STRUCTURAL SEALANT GLAZING (SSG)

2410.1 General. *The requirements of this section address the use of structural sealant glazing (SSG). These requirements shall not be used for butt joint glazing, point supported glass, and glass fins.*

Design, construction, testing, and inspection shall satisfy the requirements of this code except as modified in Sections 2410.1.1 through 2410.1.4.

2410.1.1 Design. *Design of structural sealant glazing (SSG) shall satisfy the following requirements:*

1. *SSG shall be weather tight and serviceable, as defined in AAMA 501.4, under design story drifts associated with the design earthquake and no glass fallout shall occur at the drifts determined by ASCE 7, Section 13.5.9.*
2. *The sealant utilized in the insulated glass units used in SSG shall be designed in accordance with ASTM C1249. The insulated glass unit design shall be in accordance with ASTM C1249, Section 6.7.2.*
3. *Allowable stress for SSG shall not exceed 20 psi and shall have a minimum factor of safety of 5 as required by ASTM C1401.*
4. *Design methodology shall address seismic movement in accordance with ASTM C1401, Section 30.3.4.*
5. *SSG systems shall be supported for self-weight and lateral loading at each floor level of the building.*
6. *Unitized SSG framing shall be anchored to the building floor bearing plate by screws or bolts and shall not rely upon gravity or frictional forces for attachment.*
7. *Framing shall satisfy the out-of-plane deflection requirements of this code.*

2410.1.2 Testing and inspection. *Testing and inspection of structural sealant glazing (SSG) shall satisfy the following requirements:*

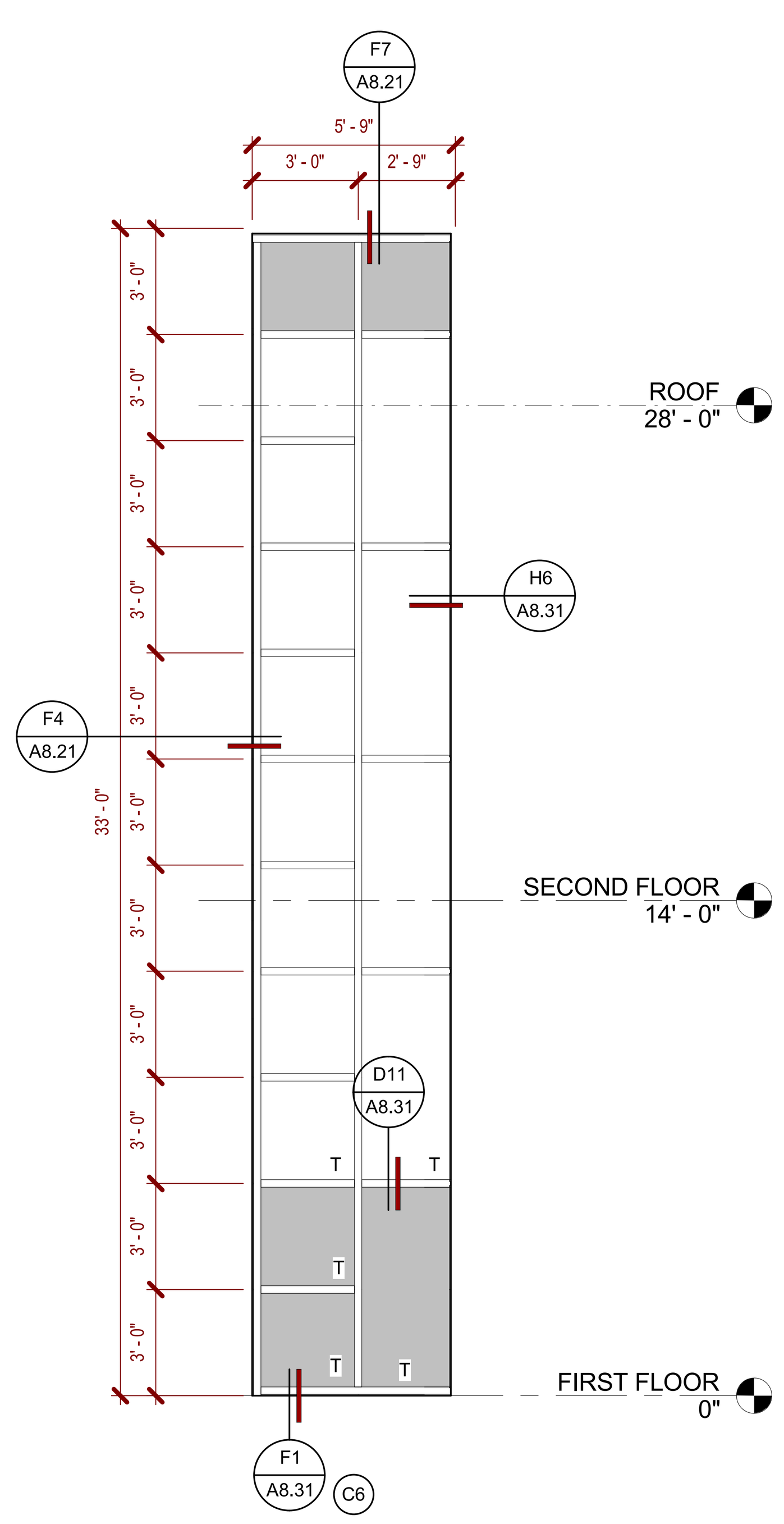
a. *The seismic drift capability of structural sealant glazing shall be determined by tests in accordance with AAMA 501.6, AAMA 501.4 and ASCE 7, Section 13.5.9.2.*
b. *The applicability of the specific AAMA 501.6 and AAMA 501.4 testing shall be subject to approval by the building official.*
c. *The panel test specimens used in the AAMA 501.6 and AAMA 501.4 testing shall include all glass types (annealed, heat strengthened, laminated, tempered) and insulated glass units that comprise more than 5 percent of the total glass curtain wall area used in the building.*
d. *AAMA 501.4 test specimen shall include the same materials, sections, connections, and attachment details to the test apparatus as used in the building.*
e. *Serviceability tests of SSG test specimen shall be performed in accordance with AAMA 501.4 after seismic displacement tests to the design story drift.*
f. *The window wall system using structural sealant by different manufacturer/product category shall be qualified in accordance with AAMA 501.6 and AAMA 501.4 testing for the seismic drift required. Analysis as an alternative to testing is not acceptable for the purposes of satisfying the seismic drift requirements of the SSG system.*
g. *Where unitized SSG is used with horizontal stack joints at each floor level and split vertical mullions that can move independently, only a story height single unit need to be tested under AAMA 501.6. Where continuous horizontal bands of SSG are used in the building, either two or four sided, the aspect ratio (height-to-length) of the test specimen shall be less than 1.0, contain not less than two interior vertical joints and all joints (vertical in the case of two sided), including the perimeter of the glass, shall be glazed with SSG.*
h. *Where SSG continues around corners, the AAMA 501.4 test specimen shall include one corner panel to verify the kinematics of the corner condition under seismic drift.*
i. *Quality assurance and inspection requirements shall include formalized post-installation tests using the point load testing procedure in accordance with ASTM C1392. The point load tests shall be done after the initial installation.*
j. *Where the SSG is field assembled, hand pull tab tests in accordance with ASTM C1401, Section X2.1, one test every 100 linear feet, but not less than one test for each building elevation view shall be required.*

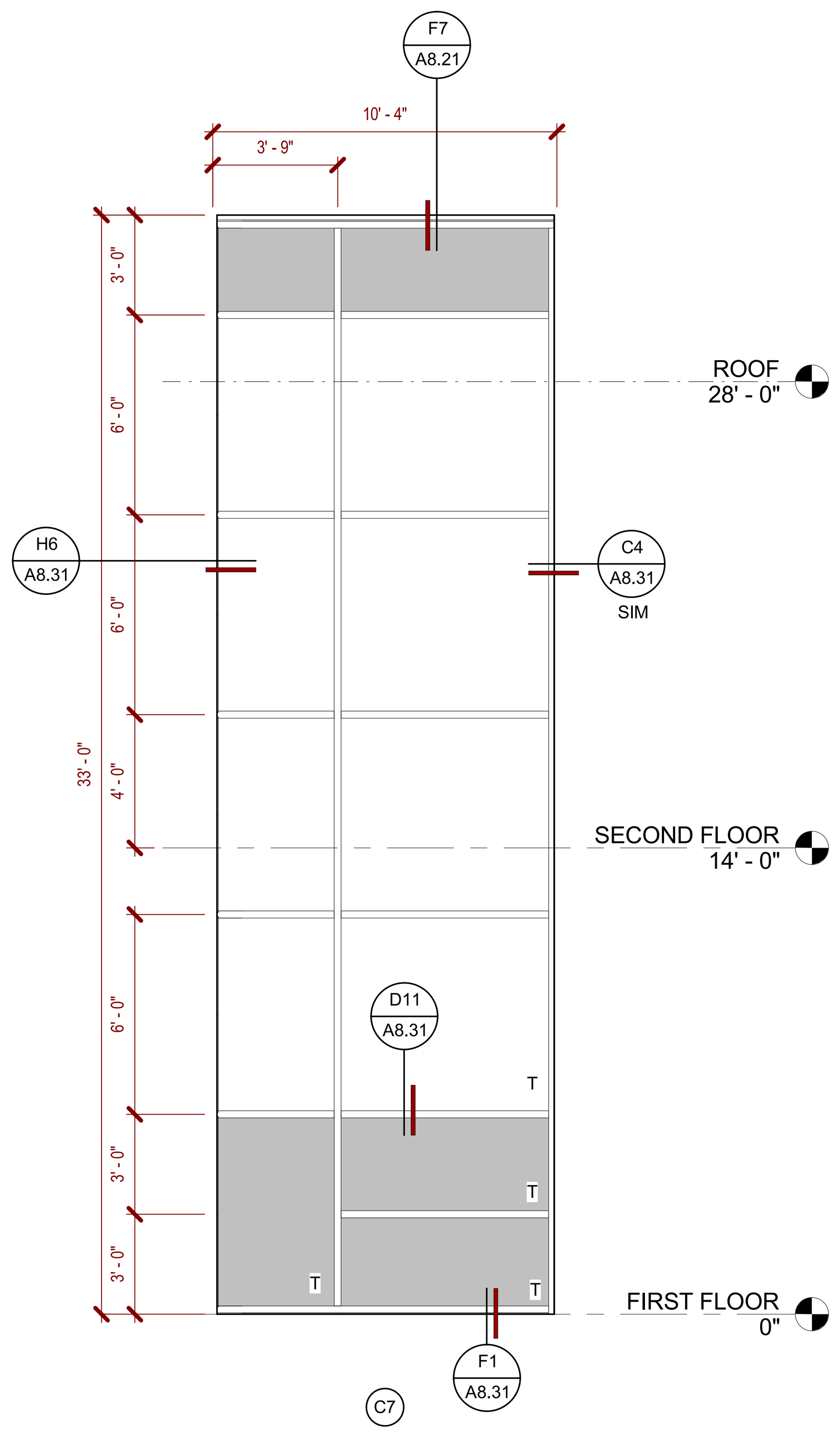
Existing AAMA 501.4 and 501.6 test results satisfying the requirements of this section shall be permitted, in lieu of project specific tests, when approved by the building official.

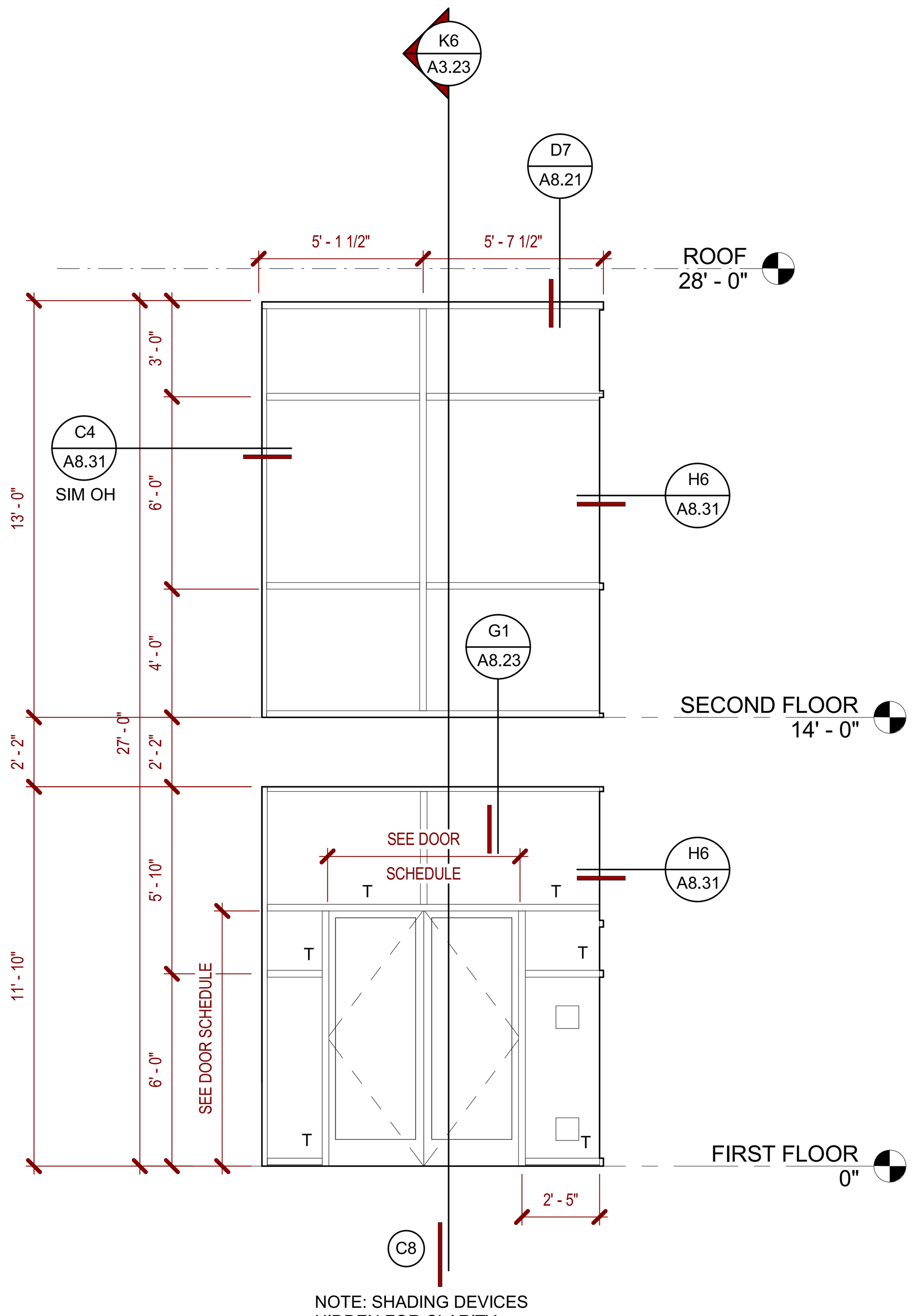
2410.1.3 Monitoring. *Short- and long-term periodic performance monitoring shall be provided in accordance with ASTM C1401, C1392 and C1394. Inspection frequencies recommended in ASTM C1392 Section 5.1 shall be followed.*

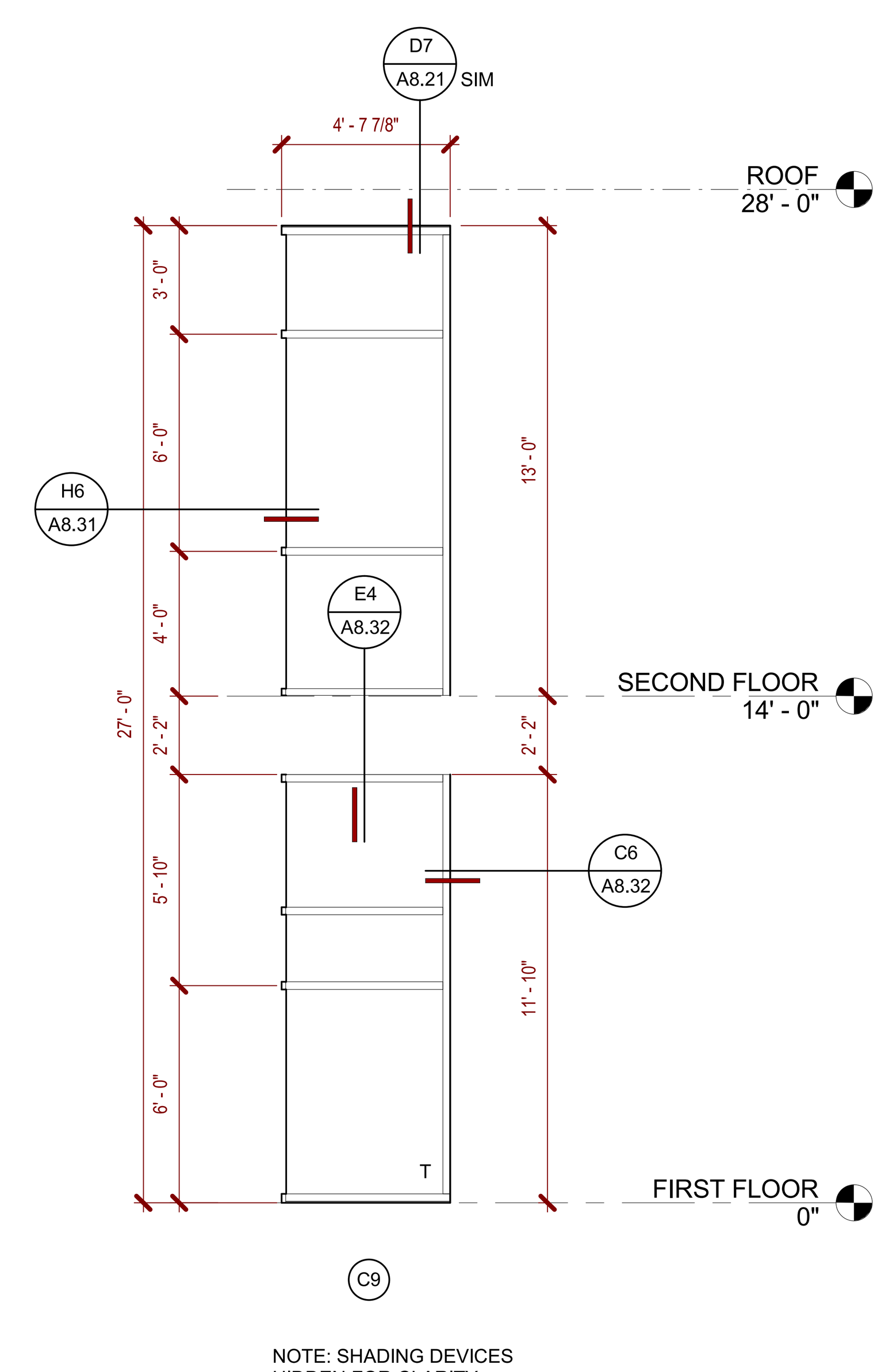
2410.1.4 Construction documents. *Complete design of the SSG system for gravity, wind and seismic forces shall be subject to review by the enforcement agency. Construction documents shall show structural details of glass and curtain wall system including:*

1. *A design narrative explaining how the SSG is supported by the building and the mechanism used to accommodate seismic racking.*
2. *Type of SSG and whether field or shop built.*
3. *The means of supporting the glass during structural sealant curing time shall be shown in the construction documents.*
4. *Typical curtain wall panel elevation, plan view and sections.*
5. *Details of building corner joint to verify how the corner vertical mullion will move to accommodate the seismic drift.*
6. *Joints between panel and floors at top and bottom.*
7. *Joint between panels – including vertical and horizontal stack joints at intermediate and edge mullion.*
8. *Member sizes for curtain wall panels.*
9. *Glass pane sizes, thickness and type of glass.*
10. *Contact width and thickness of structural sealant and sealant materials for shop and field installation/reglazing.*
11. *Glass to aluminum joints (including primers, if any).*
12. *Maximum roof/floor dead and live load deflection of the roof/floor framing members supporting the exterior curtain wall system.*
13. *Required seismic separation or gap distance between the structural sealant glazing curtain wall and other adjacent cladding units.*
14. *Mitigation of galvanic reactions between the roof/floor slab anchors, steel screw connections of aluminum sections and the aluminum anchorage components, if any.*









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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

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DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC ____ FLS ____ SS ____
DATE ____

ARCHITECT'S STAMP   APPROVAL

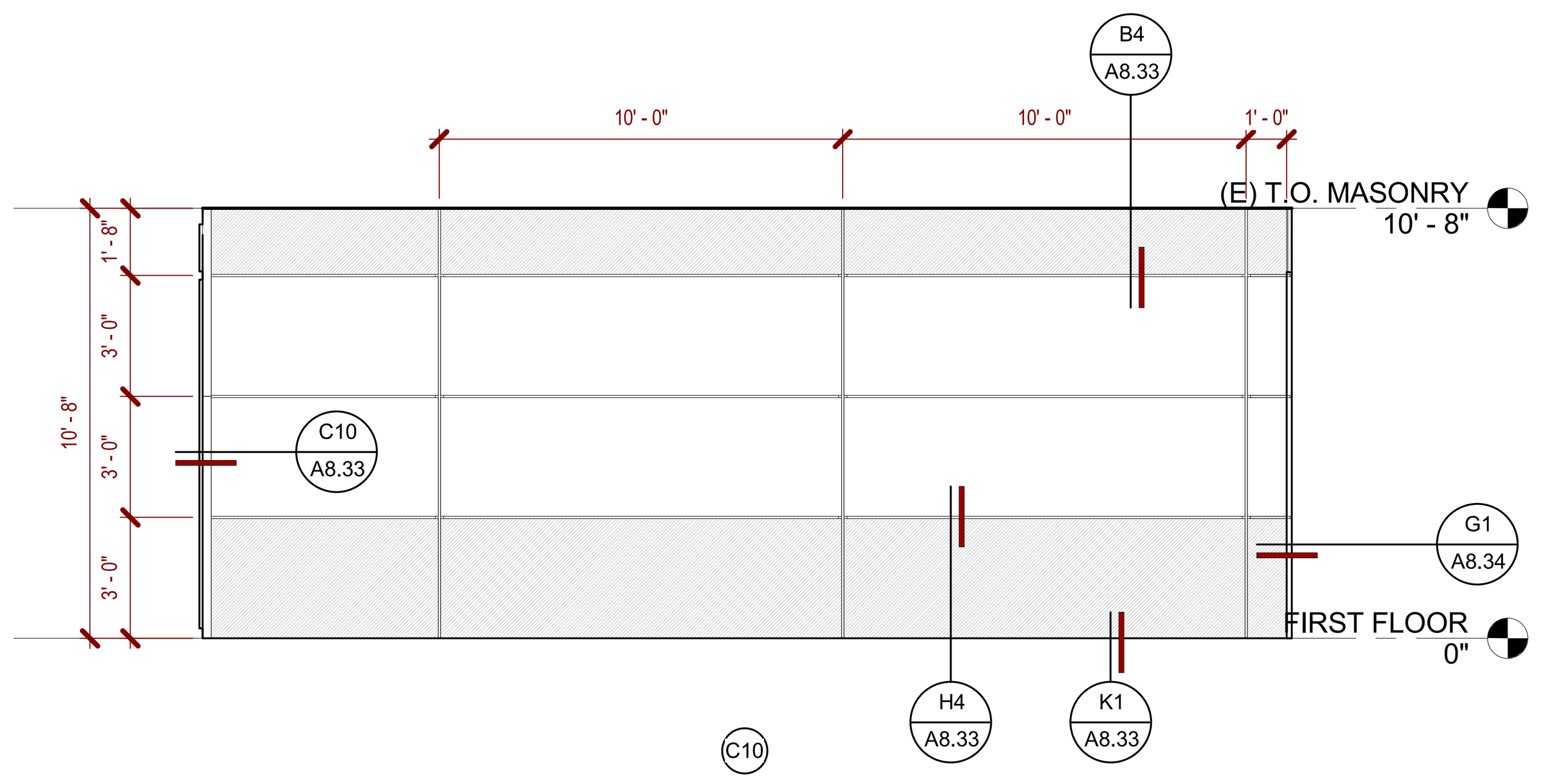
CONSULTANT

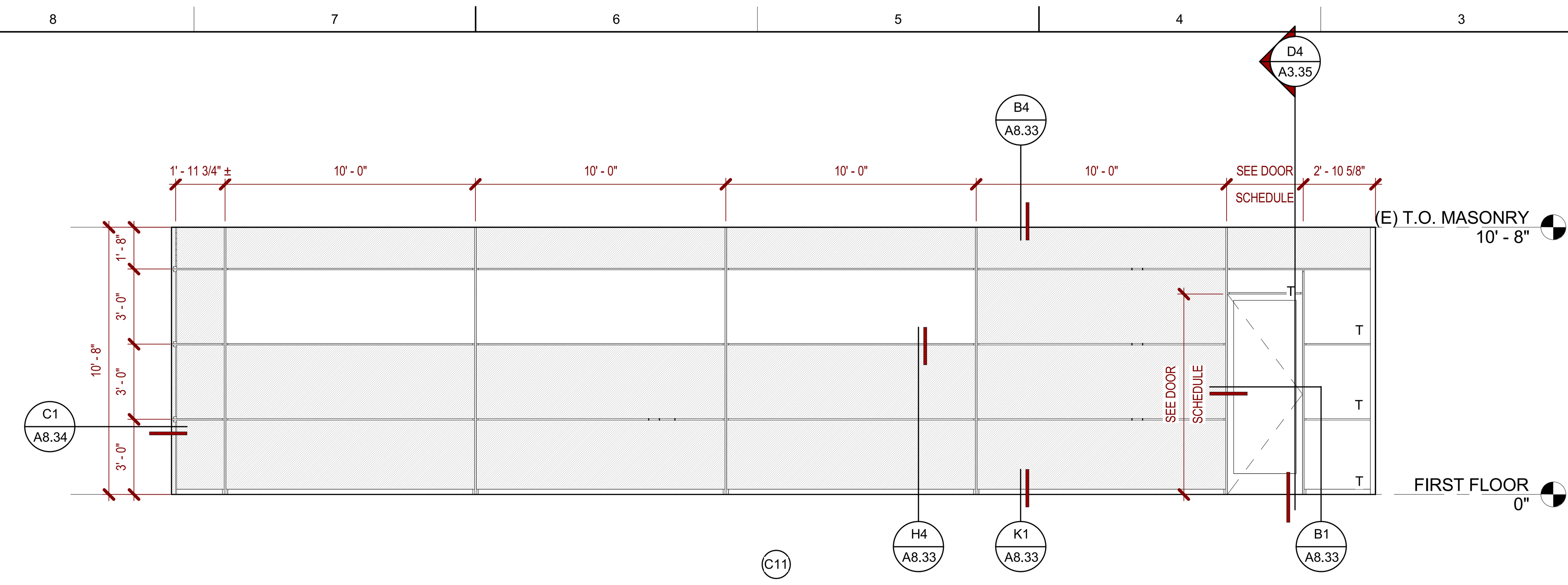
CURTAINWALL ELEVATIONS

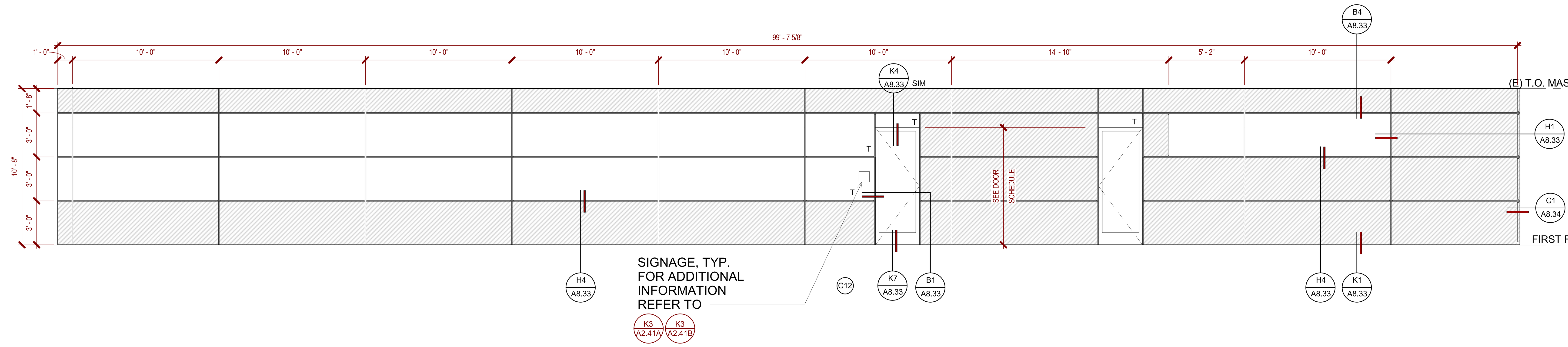
PROJECT NO: 201-0065
DATE: 01.15.2018

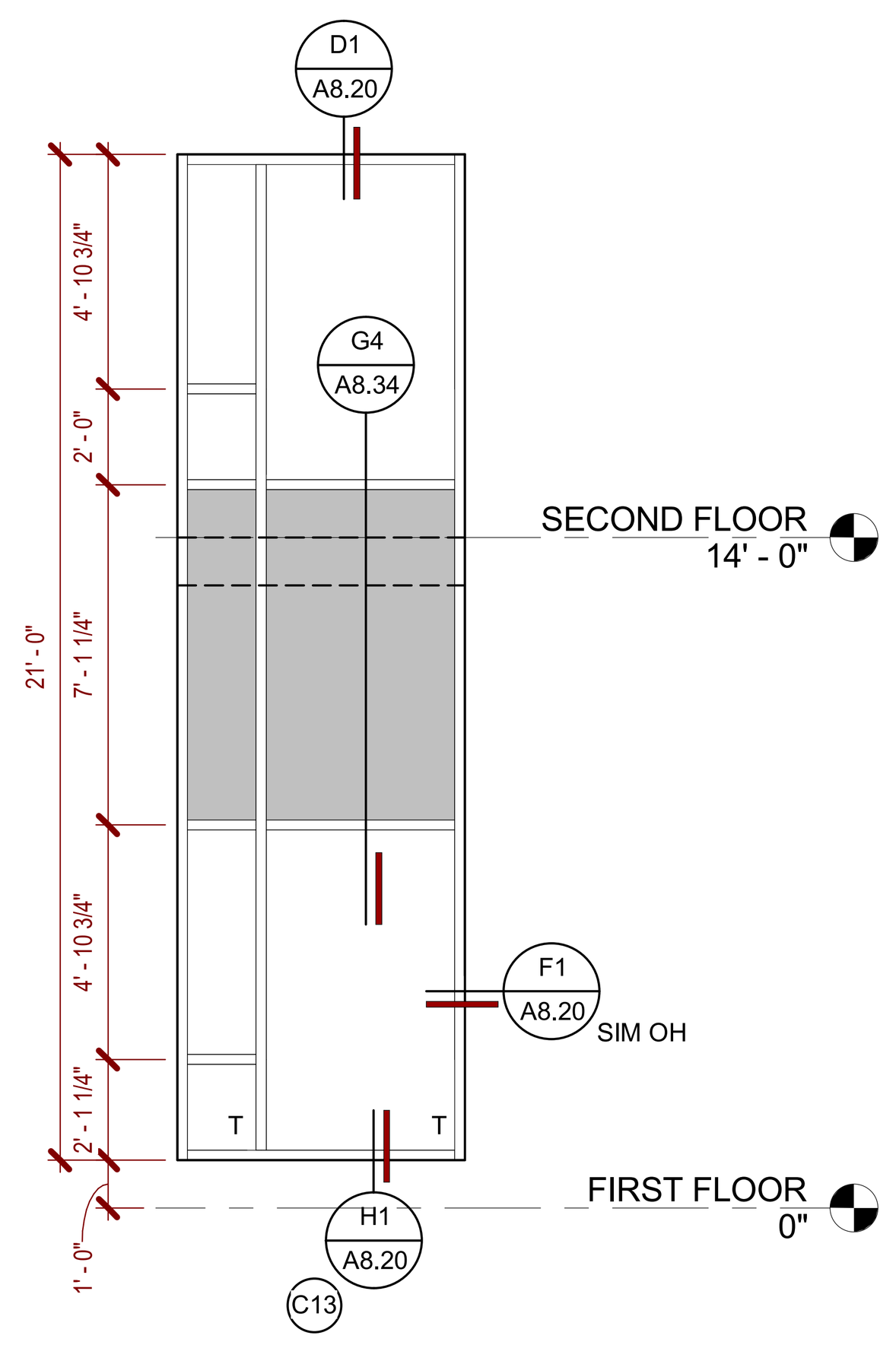
SHEET NO:

A2.82









CURTAINWALL ELEVATIONS GENERAL NOTES

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3.B CONTRACTOR TO PROVIDE SEPARATE SUBMITTAL FOR CUTAIN WALL 10'-0" OR MORE IN HIEGHT. (THIS SUBMITTAL MUST BE REVIEWED AND APROVED BY DSA)

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GLAZING LEGEND

VISION GLAZING - TYPE PER SPECIFICATIONS

SPANDREL GLAZING - COLOR PER SPECIFICATIONS

ALUMINUM COMPOSITE INFILL PANEL

PANEL INDICATED WITH A 'T' SHALL BE SAFETY GLAZING IN COMPLIANCE WITH CBC 2406.4

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ARCHITECT'S STAMP APPROVAL

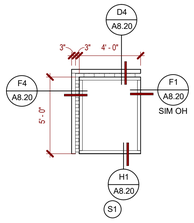
CONSULTANT

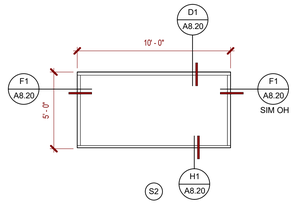
CURTAINWALL ELEVATIONS

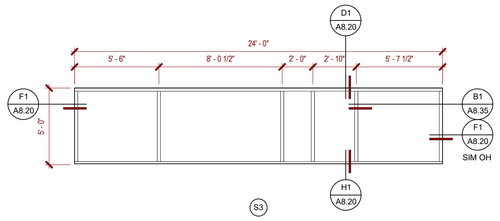
PROJECT NO: 201-0065
DATE: 01.15.2018

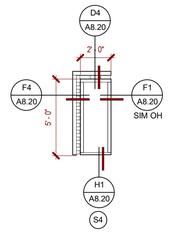
SHEET NO:

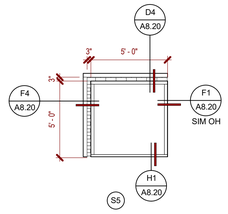
A2.83

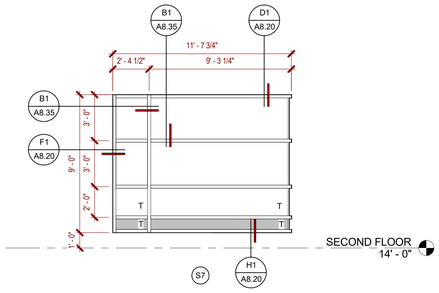


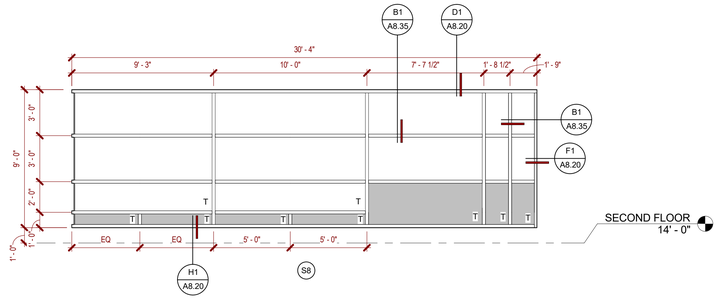


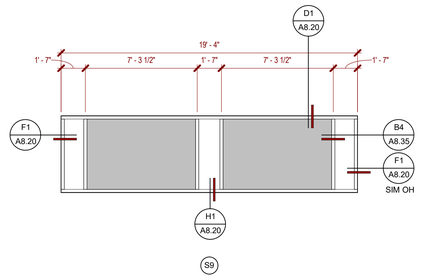


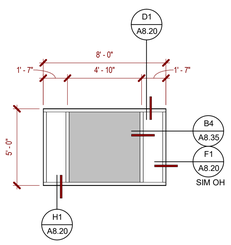


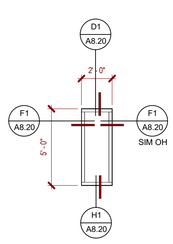


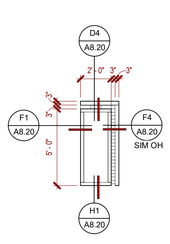


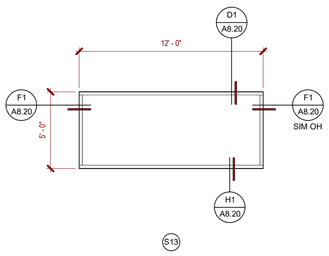


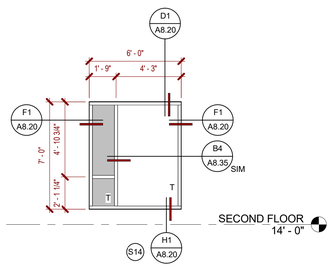


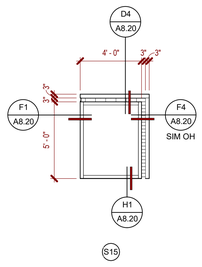


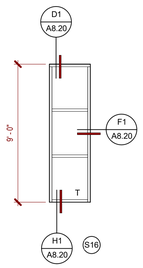












STOREFRONT ELEVATIONS GENERAL NOTES

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3.C REFER TO SPECIFICATION SECTION 08 43 13 AND 08 44 13 FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

1

GLAZING LEGEND

VISION GLAZING - TYPE PER SPECIFICATIONS

SPANDREL GLAZING - COLOR PER SPECIFICATIONS

ALUMINUM COMPOSITE INFILL PANEL

PANEL INDICATED WITH A 'T' SHALL BE SAFETY GLAZING IN COMPLIANCE WITH CBC 2406.4

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COLLEGE CENTER EXPANSION

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AC _____ FLS _____ SS _____
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CONSULTANT

EXTERIOR STOREFRONT ELEVATIONS

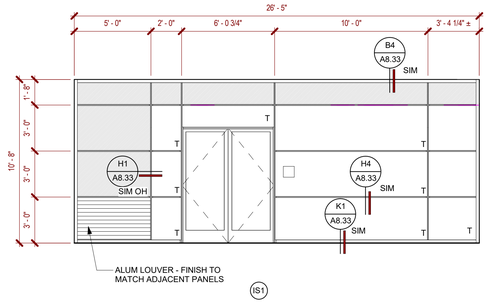
PROJECT NO: 201-0065

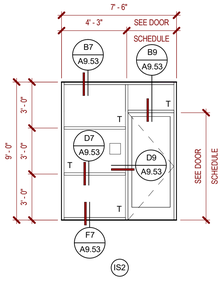
DATE: 01.15.2018

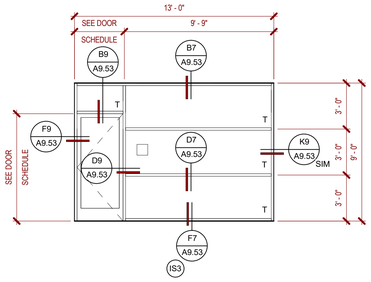
SHEET NO:

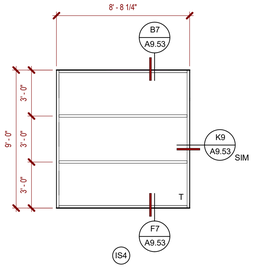
A2.84

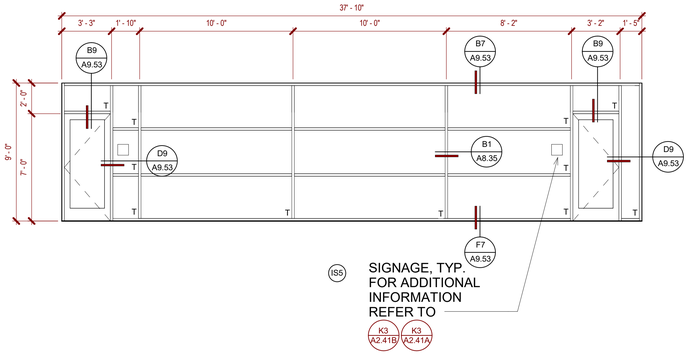
DSA SUBMITTAL II

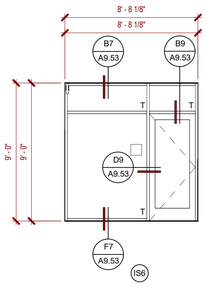


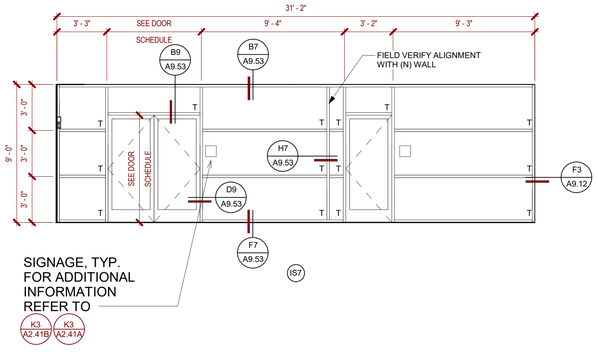


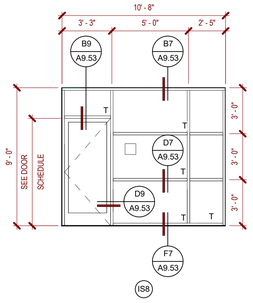


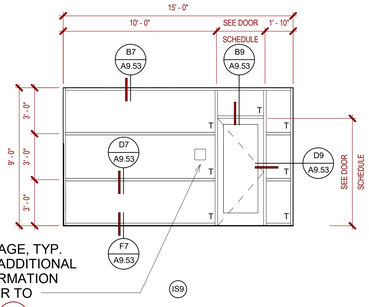


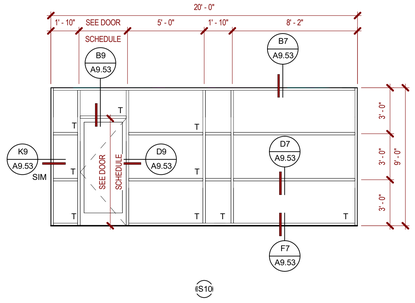


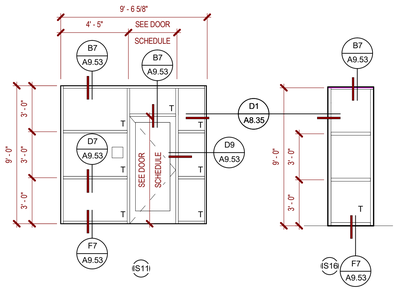


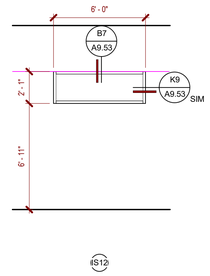


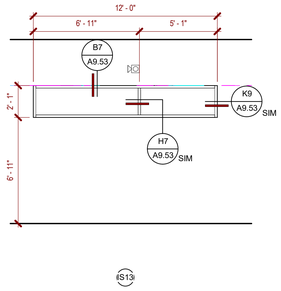


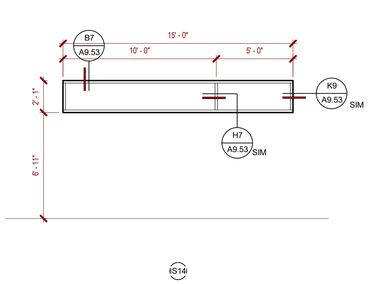


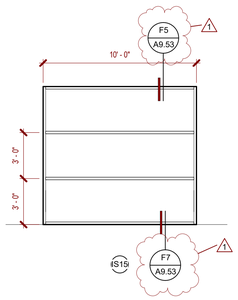


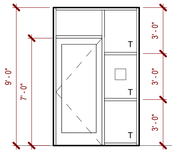












STOREFRONT ELEVATIONS GENERAL NOTES

1. PROVIDE TEMPERED GLAZING WHERE REQUIRED BY CBC SECTION 2406.
2. UNLESS OTHERWISE NOTED, VISION GLAZING SHALL BE 1" INSULATED GLAZING ASSEMBLY.
3.A CONTRACTOR TO PROVIDE STANDARD CURTAIN WALL / STOREFRONT SUBMITTAL FOR CURTAIN WALL OR STOREFRONT LESS THAN 10'-0" IN HIEGHT.
3.B CONTRACTOR TO PROVIDE SEPARATE SUBMITTAL FOR CUTAINWALL OR STOREFRONT 10'-0" OR MORE IN HIEGHT. (THIS SUBMITTAL MUST BE REVIEWED AND APROVED BY DSA)
3.C REFER TO SPECIFICATION SECTION 08 43 13 AND 08 44 13 FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

GLAZING LEGEND

- VISION GLAZING - TYPE PER SPECIFICATIONS
- SPANDREL GLAZING - COLOR PER SPECIFICATIONS
- ALUMINUM COMPOSITE INFILL PANEL

PANEL INDICATED WITH A 'T' SHALL BE SAFETY GLAZING IN COMPLIANCE WITH CBC 2406.4

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
02-115990
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

INTERIOR STOREFRONT ELEVATIONS

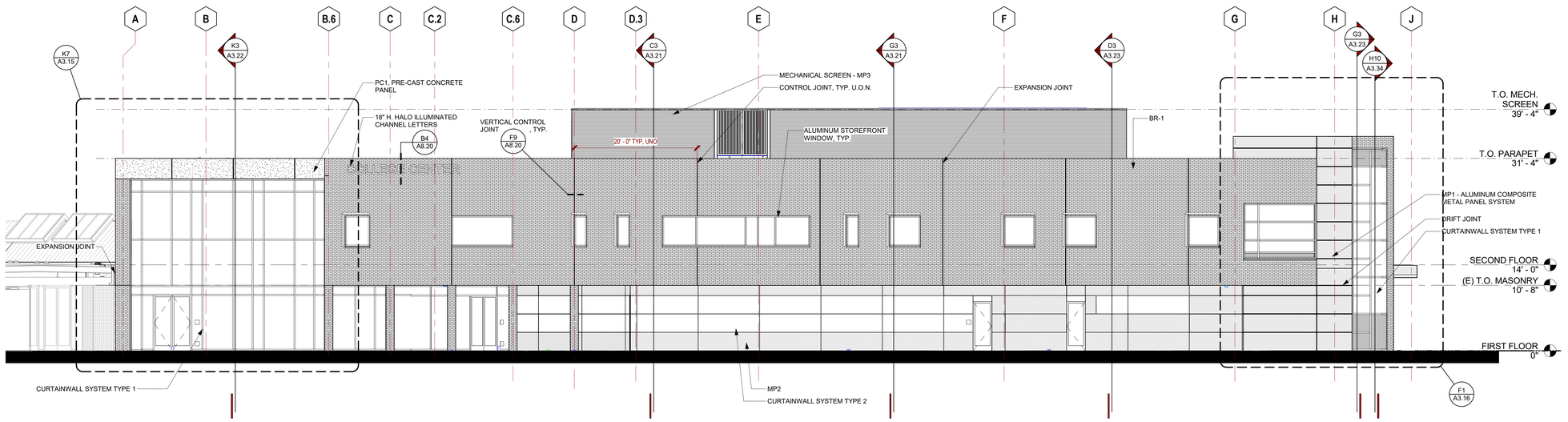
PROJECT NO: 201-0065

DATE: 01.15.2018

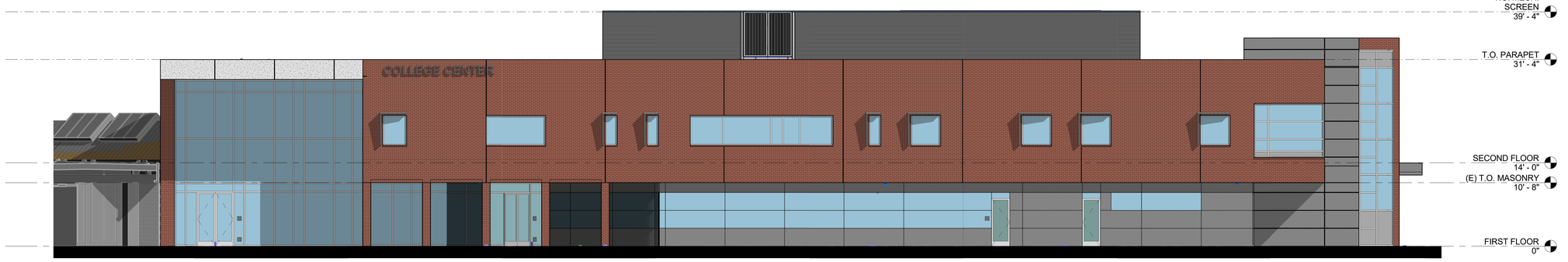
SHEET NO:

A2.85

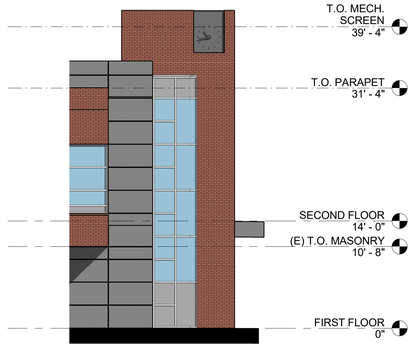
DSA SUBMITTAL II



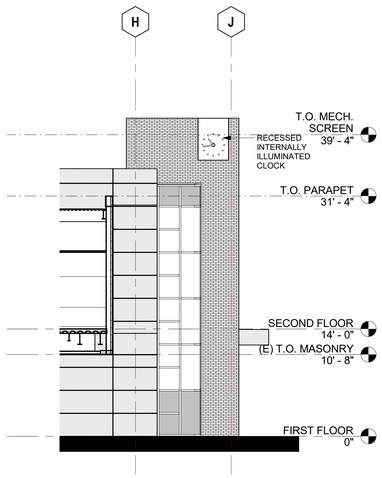
EAST ELEVATION | D1
1/8" = 1'-0"



EAST ELEVATION - SHADED | G1
1/8" = 1'-0"



EAST ELEVATION - SHADED ADD ALT #4 | 2
1/8" = 1'-0"



EAST ELEVATION ADD ALT #4 | K6
1/8" = 1'-0"

GENERAL NOTES EXTERIOR ELEVATIONS

1. EXTERIOR FINISHES IDENTIFIED ARE BASIS OF DESIGN. SUBSTITUTIONS SHALL MEET OR EXCEED SPECIFICATIONS FOR BASIS OF DESIGN MATERIALS, INCLUDING BUT NOT LIMITED TO COLORS, TEXTURES AND OVERALL PERFORMANCE.
2. SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL MATERIAL INFORMATION.
3. SEE SHEET A2.82 AND A2.83 FOR CURTAINWALL SYSTEM ELEVATIONS.
4. SEE SHEET A2.84 FOR EXTERIOR STOREFRONT SYSTEM ELEVATIONS.
5. THIN BRICK VENEER SHALL MATCH EXISTING SIZE, COURSING, COLOR AND TEXTURE OF EXISTING BRICK VENEER.

EXTERIOR FINISH LEGEND

MP1	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	ROUT & RETURN (WET)
MP2	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	CURTAINWALL
MP3	CORRUGATED METAL MECHANICAL SCREEN PANEL	
	MANUFACTURER:	AEP SPAN
	PROFILE:	1.5PX20-12D
	COLOR:	OLD TOWN GRAY
	GAUGE:	20 (MIN)
	INSTALLATION METHOD:	DIRECT FASTENED
MP4	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	HAZELNUT MICA
	INSTALLATION METHOD:	ROUT & RETURN (WET)
BR1	THIN BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 5/8
	MORTAR:	
BR2	FULL BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 3 5/8
	MORTAR:	
PC1	PRE-CAST PANEL	
	MANUFACTURER:	
	COLOR:	MATCH EXISTING BUILDING
CP1	CEMENT PLASTER	
	COLOR:	MATCH PRE-CAST PANEL
GL1	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	COLOR:	STARPHIRE ULTRA-CLEAR
GL2	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	MODEL:	SOLARBAN 70XL (3)
	COLOR:	SOLARBLUE
GL3	1" INSULATED SPANDREL GLASS	
	MANUFACTURER:	PPG
	MODEL:	
	COLOR:	MATCH ADJACENT GLAZING

NOTE: REQUIRED FURRING PER K1 A9.20

NOTE: REQUIRED FURRING PER K1 A9.20

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

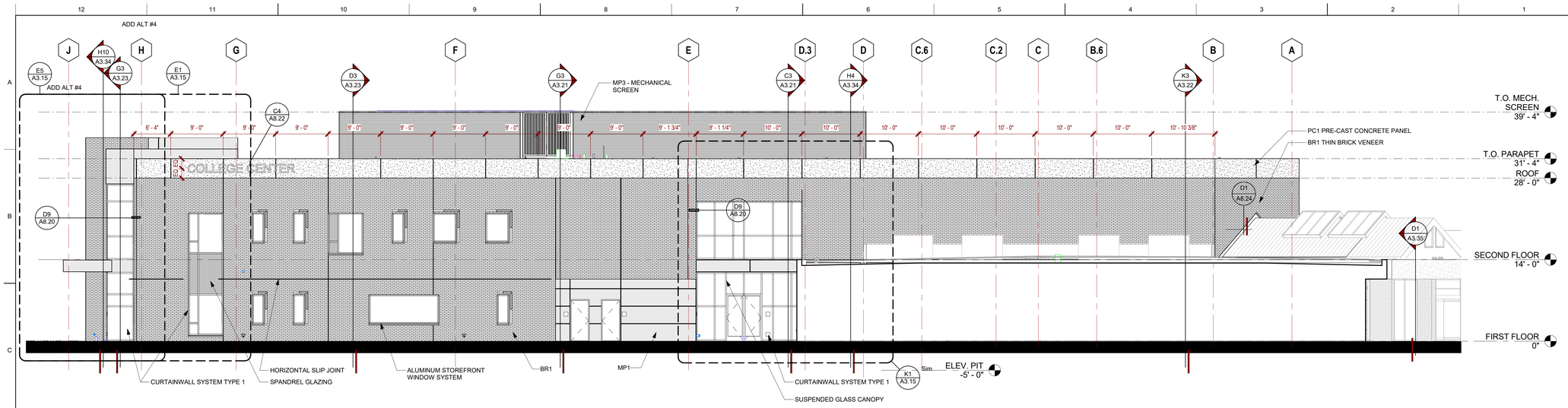
EXTERIOR ELEVATIONS - EAST

PROJECT NO: 201-0065
DATE: 01.15.2018

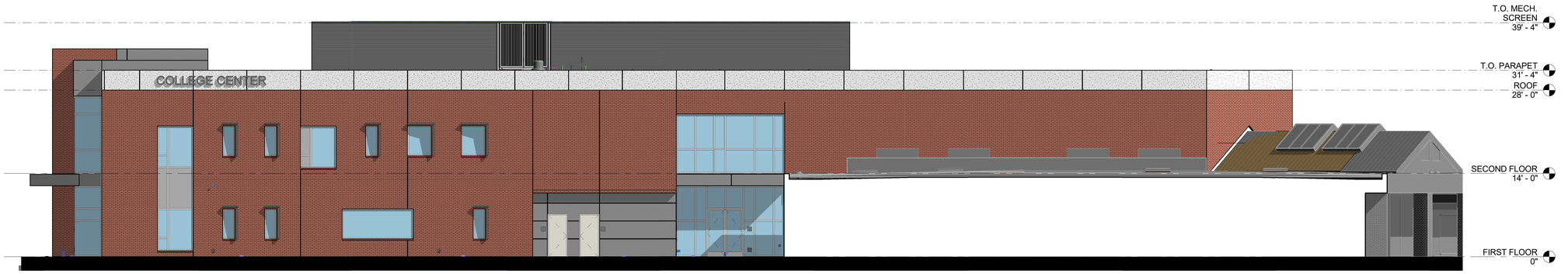
SHEET NO:

A3.11

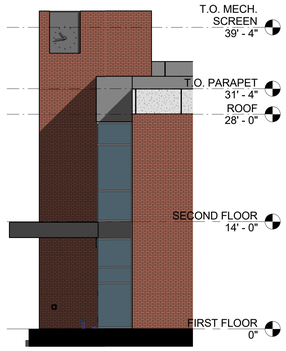
DSA SUBMITTAL II



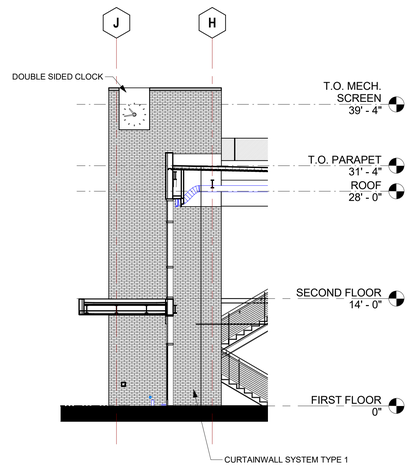
WEST ELEVATION 1/8" = 1'-0" | D1



WEST ELEVATION - SHADED 1/8" = 1'-0" | G1



WEST ELEVATION - SHADED ADD ALT #4 1/8" = 1'-0" | 2



WEST ELEVATION ADD ALT #4 1/8" = 1'-0" | 1

GENERAL NOTES EXTERIOR ELEVATIONS

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4. SEE SHEET A2.84 FOR EXTERIOR STOREFRONT SYSTEM ELEVATIONS.
5. THIN BRICK VENEER SHALL MATCH EXISTING SIZE, COURSING, COLOR AND TEXTURE OF EXISTING BRICK VENEER.

EXTERIOR FINISH LEGEND

MP1	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	ROUT & RETURN (WET)
MP2	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	CURTAINWALL
MP3	CORRUGATED METAL MECHANICAL SCREEN PANEL	
	MANUFACTURER:	AEP SPAN
	PROFILE:	1.5FX20-12D
	COLOR:	OLD TOWN GRAY
	GAUGE:	20 (MIN)
	INSTALLATION METHOD:	DIRECT FASTENED
MP4	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	HAZELNUT MICA
	INSTALLATION METHOD:	ROUT & RETURN (WET)
BR1	THIN BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 5/8
	MORTAR:	
BR2	FULL BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 3 5/8
	MORTAR:	
PC1	PRE-CAST PANEL	
	MANUFACTURER:	
	COLOR:	MATCH EXISTING BUILDING
CP1	CEMENT PLASTER	
	COLOR:	MATCH PRE-CAST PANEL
GL1	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	COLOR:	STARPHIRE ULTRA-CLEAR
GL2	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	MODEL:	SOLARBAN 70XL (3)
	COLOR:	SOLARBLUE
GL3	1" INSULATED SPANDREL GLASS	
	MANUFACTURER:	PPG
	MODEL:	
	COLOR:	MATCH ADJACENT GLAZING

1 NOTE: REQUIRED FURRING PER K1 A9.20

1 NOTE: REQUIRED FURRING PER K1 A9.20

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ARCHITECT'S STAMP APPROVAL

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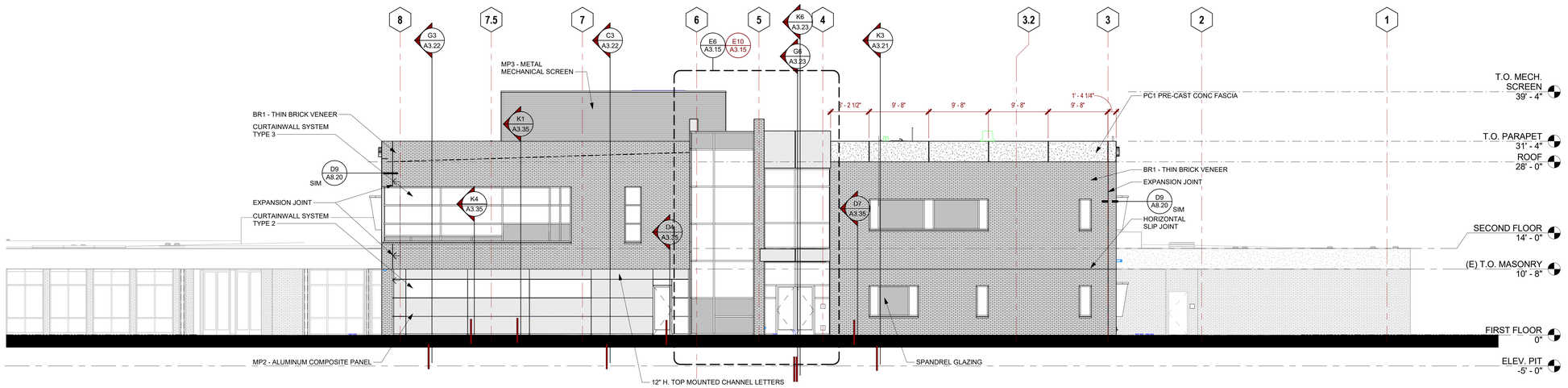
EXTERIOR ELEVATIONS - WEST

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

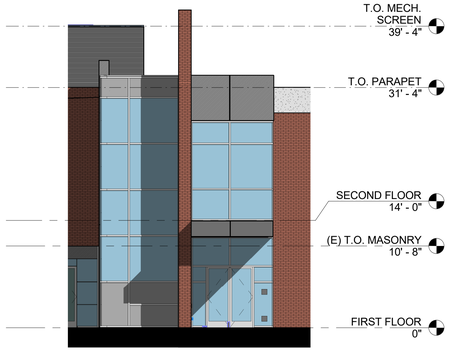
A3.12

DSA SUBMITTAL II

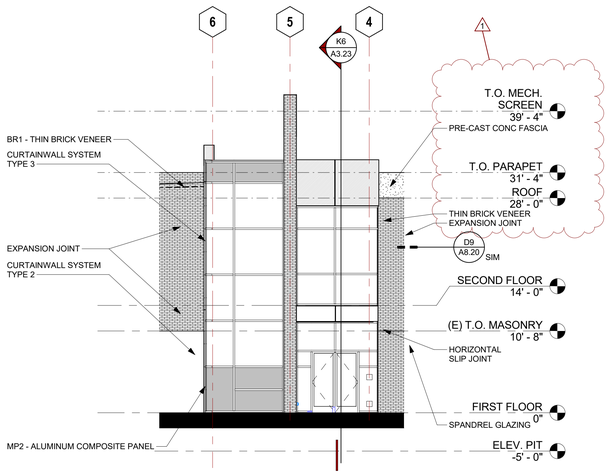


NORTH ELEVATION D1
1/8" = 1'-0"

NORTH ELEVATION - SHADED G1
1/8" = 1'-0"



NORTH ELEVATION - SHADED ADD ALT #4 K10
1/8" = 1'-0"



NORTH ELEVATION ADD ALT #4 K6
1/8" = 1'-0"

GENERAL NOTES EXTERIOR ELEVATIONS

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3. SEE SHEET A2.82 AND A2.83 FOR CURTAINWALL SYSTEM ELEVATIONS.
4. SEE SHEET A2.84 FOR EXTERIOR STOREFRONT SYSTEM ELEVATIONS.
5. THIN BRICK VENEER SHALL MATCH EXISTING SIZE, COURSING, COLOR AND TEXTURE OF EXISTING BRICK VENEER.

EXTERIOR FINISH LEGEND

MP1	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	ROUT & RETURN (WET)
MP2	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	naturAL BRUSHED STAINLESS
	INSTALLATION METHOD:	CURTAINWALL
MP3	CORRUGATED METAL MECHANICAL SCREEN PANEL	
	MANUFACTURER:	AEP SPAN
	PROFILE:	1.5PX20-12D
	COLOR:	OLD TOWN GRAY
	GAUGE:	20 (MIN)
	INSTALLATION METHOD:	DIRECT FASTENED
MP4	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	HAZELNUT MICA
	INSTALLATION METHOD:	ROUT & RETURN (WET)
BR1	THIN BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 5/8
	MORTAR:	
BR2	FULL BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 3 5/8
	MORTAR:	
PC1	PRE-CAST PANEL	
	MANUFACTURER:	
	COLOR:	MATCH EXISTING BUILDING
CP1	CEMENT PLASTER	
	COLOR:	MATCH PRE-CAST PANEL
GL1	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	COLOR:	STARPHIRE ULTRA-CLEAR
GL2	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	MODEL:	SOLARBAN 70XL (3)
	COLOR:	SOLARBLUE
GL3	1" INSULATED SPANDREL GLASS	
	MANUFACTURER:	PPG
	MODEL:	
	COLOR:	MATCH ADJACENT GLAZING

1 NOTE: REQUIRED FURRING PER K1 A9.20

1 NOTE: REQUIRED FURRING PER K1 A9.20

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ARCHITECT'S STAMP APPROVAL

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EXTERIOR ELEVATIONS - NORTH

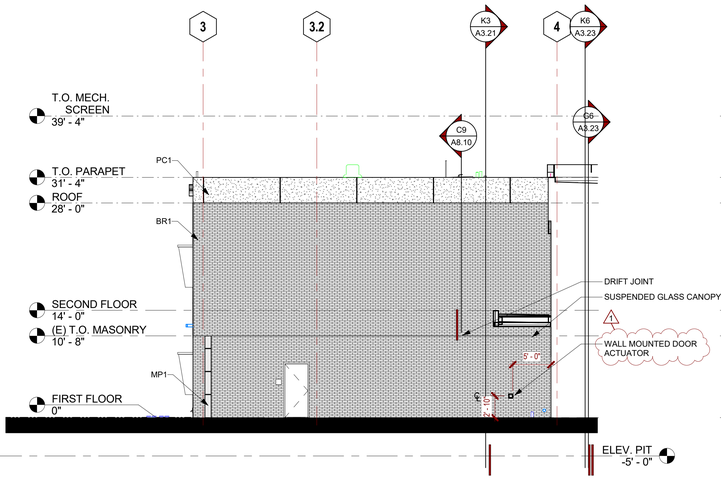
PROJECT NO: 201-0065

DATE: 01.15.2018

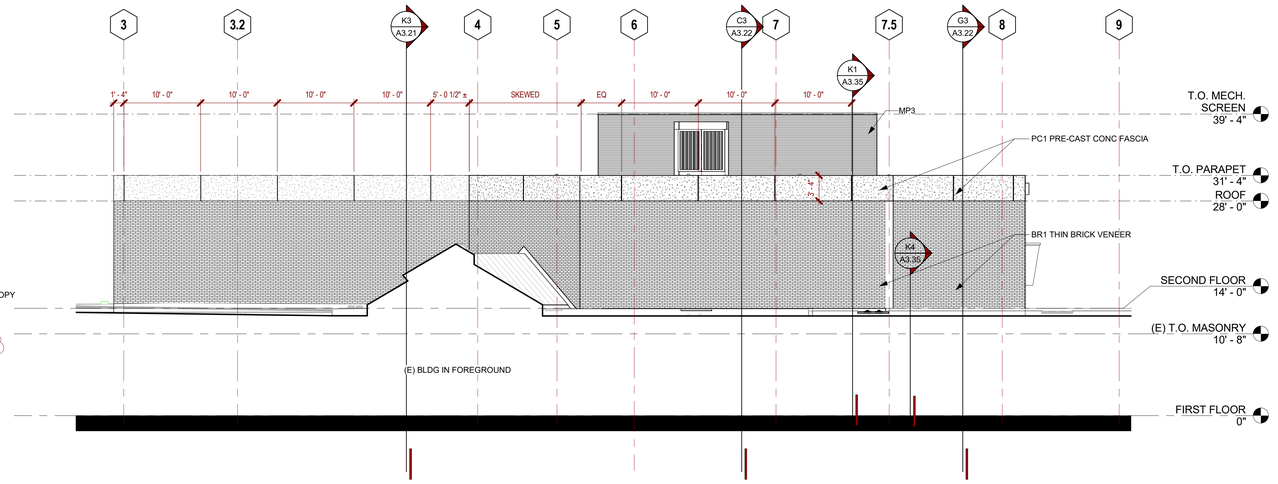
SHEET NO:

A3.13

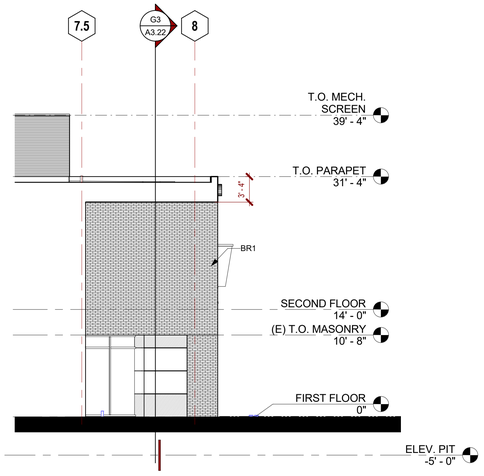
DSA SUBMITTAL II



SOUTH ELEVATION AT NEW ADDITION 1/8" = 1'-0" | D9

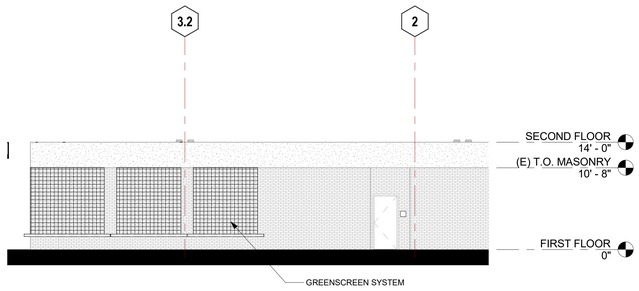


SOUTH ELEVATION 1/8" = 1'-0" | D1

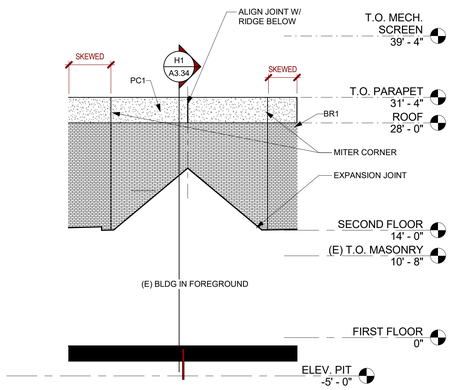


SOUTH ELEVATION AT MAIN ENTRY 1/8" = 1'-0" | G9

SOUTH ELEVATION SHADED 1/8" = 1'-0" | G1



ELEVATION AT NORTH FACADE OF (E) BLDG 1/8" = 1'-0" | K9



SOUTHWEST ELEVATION @ (E) BLDG CONNECTION 1/8" = 1'-0" | K5

GENERAL NOTES EXTERIOR ELEVATIONS

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4. SEE SHEET A2.84 FOR EXTERIOR STOREFRONT SYSTEM ELEVATIONS.
5. THIN BRICK VENEER SHALL MATCH EXISTING SIZE, COURSING, COLOR AND TEXTURE OF EXISTING BRICK VENEER.

EXTERIOR FINISH LEGEND

MP1	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	natural BRUSHED STAINLESS
	INSTALLATION METHOD:	ROUT & RETURN (WET)
MP2	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	natural BRUSHED STAINLESS
	INSTALLATION METHOD:	CURTAINWALL
MP3	CORRUGATED METAL MECHANICAL SCREEN PANEL	
	MANUFACTURER:	AEP SPAN
	PROFILE:	1.5FX20-12D
	COLOR:	OLD TOWN GRAY
	GAUGE:	20 (MIN)
	INSTALLATION METHOD:	DIRECT FASTENED
MP4	ALUMINUM COMPOSITE PANEL	
	MANUFACTURER:	ALUCOBOND
	COLOR:	HAZELNUT MICA
	INSTALLATION METHOD:	ROUT & RETURN (WET)
BR1	THIN BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 5/8
	MORTAR:	
BR2	FULL BRICK VENEER	
	MANUFACTURER:	HC MUDDOX
	COLOR:	MONTEREY BAY FLASH
	COURSING:	RUNNING BOND
	SIZE:	11 1/2 x 2 1/2 x 3 5/8
	MORTAR:	
PC1	PRE-CAST PANEL	
	MANUFACTURER:	
	COLOR:	MATCH EXISTING BUILDING
CP1	CEMENT PLASTER	
	COLOR:	MATCH PRE-CAST PANEL
GL1	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	COLOR:	STARPHIRE ULTRA-CLEAR
GL2	1" INSULATED GLASS	
	MANUFACTURER:	PPG
	MODEL:	SOLARBAN 70XL (3)
	COLOR:	SOLARBLUE
GL3	1" INSULATED SPANDREL GLASS	
	MANUFACTURER:	PPG
	MODEL:	
	COLOR:	MATCH ADJACENT GLAZING

NOTE: REQUIRED FURRING PER K1 A9.20

NOTE: REQUIRED FURRING PER K1 A9.20

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

EXTERIOR ELEVATIONS - SOUTH

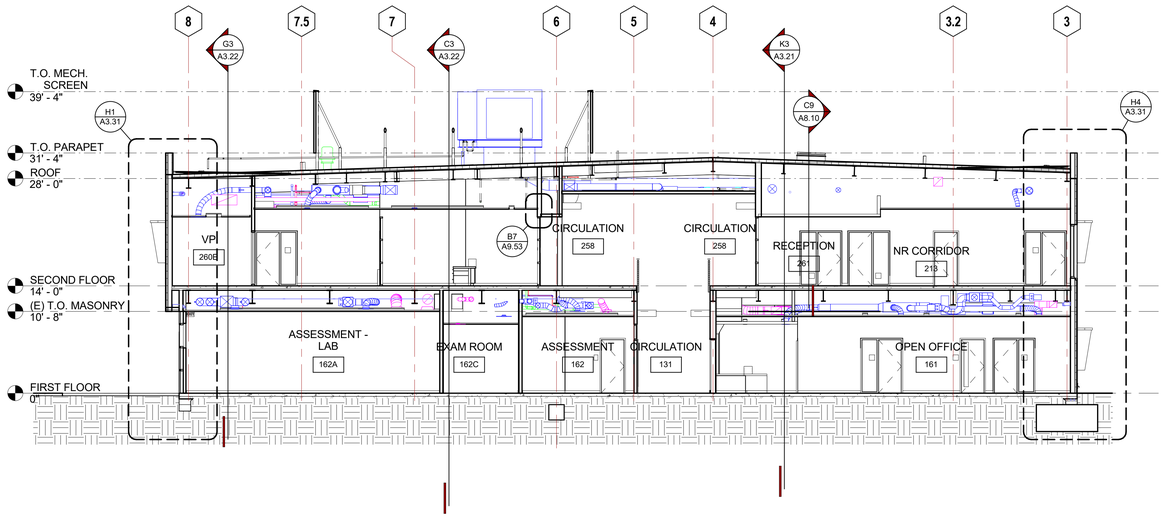
PROJECT NO: 201-0065

DATE: 01.15.2018

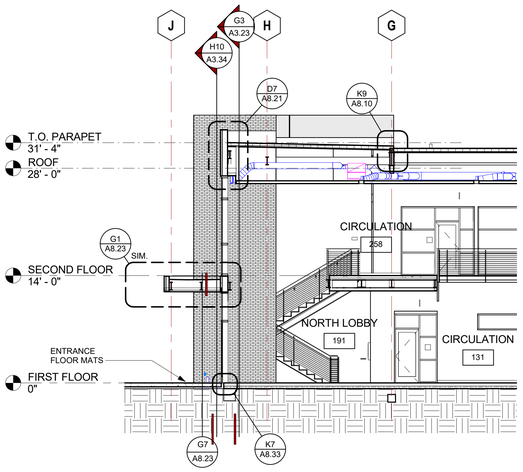
SHEET NO:

A3.14

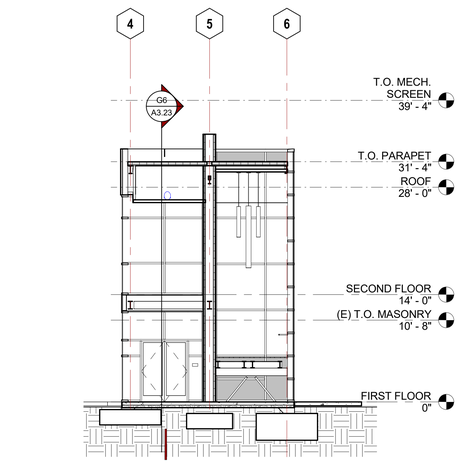
DSA SUBMITTAL II



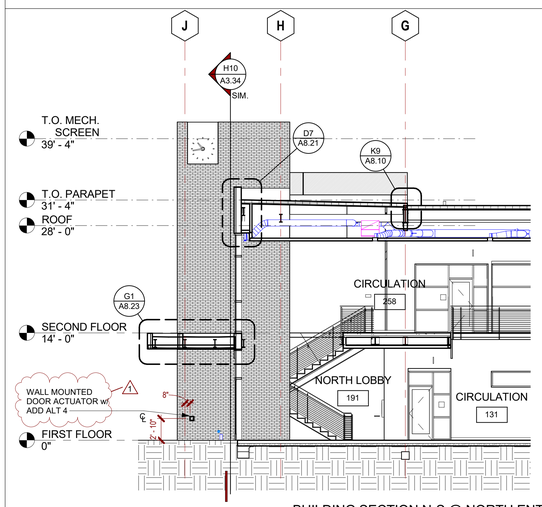
BUILDING SECTION E-W1 | D3
1/8" = 1'-0"



BUILDING SECTION N-S @ NORTH ENTRY | G6
1/8" = 1'-0"



BUILDING SECTION E-W4 | G3
1/8" = 1'-0"



BUILDING SECTION N-S @ NORTH ENTRY ADD ALT #4 | K6
1/8" = 1'-0"

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

BUILDING SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

A3.23

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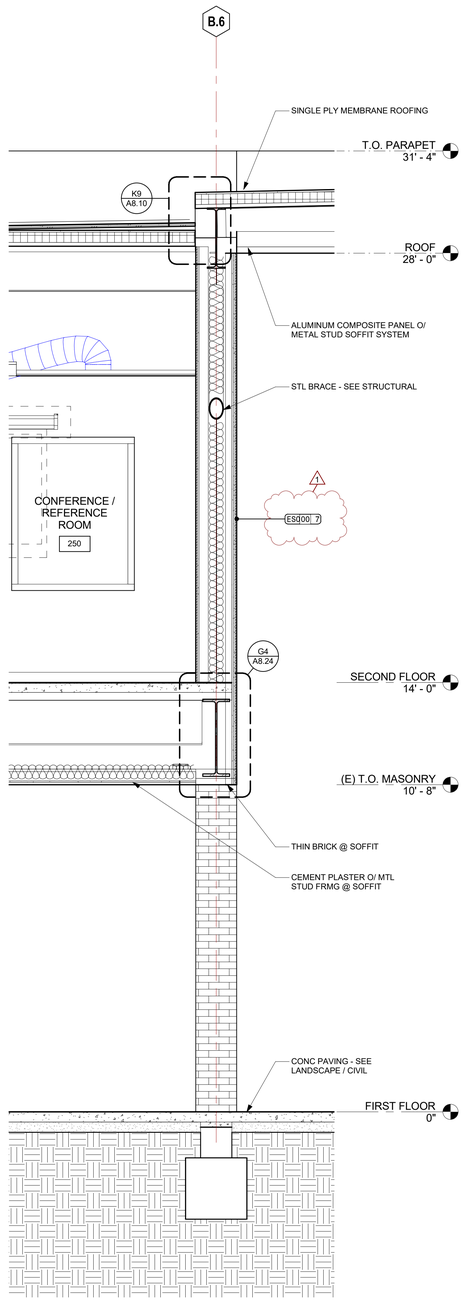
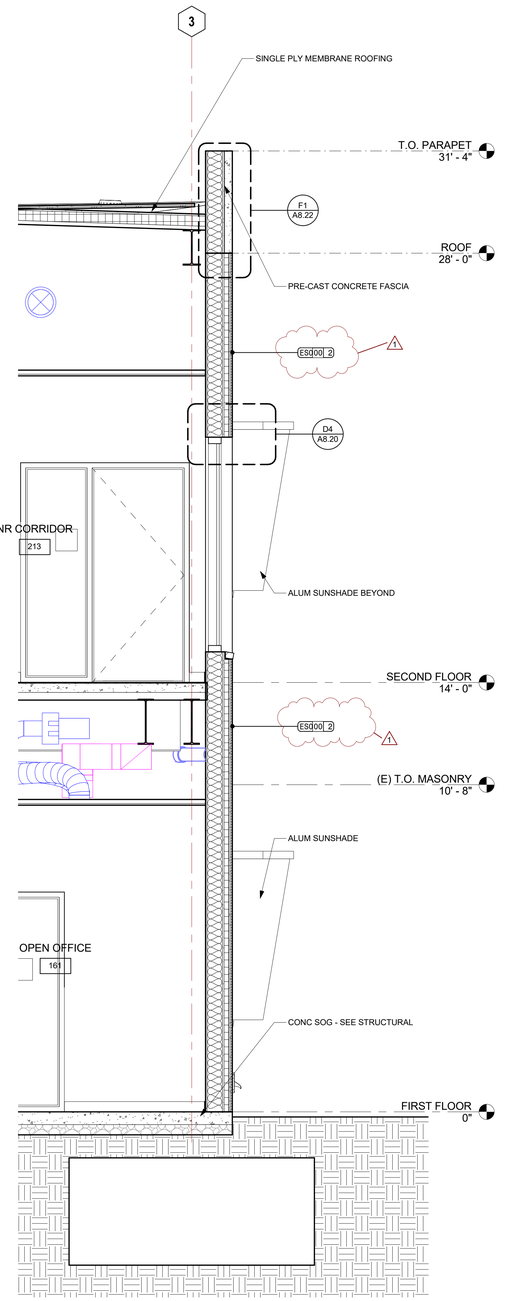
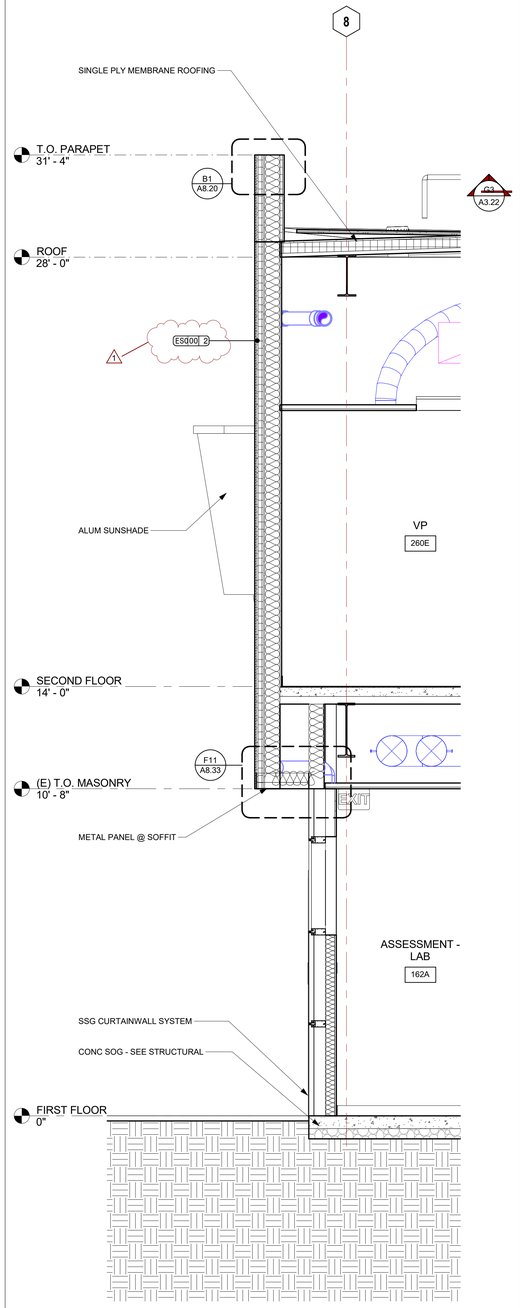


WALL SECTION AT SOUTHEAST ENTRY | H7
1/2" = 1'-0"



WALL SECTION AT WEST WALL | H4
1/2" = 1'-0"



WALL SECTION AT EAST WALL | H1
1/2" = 1'-0"

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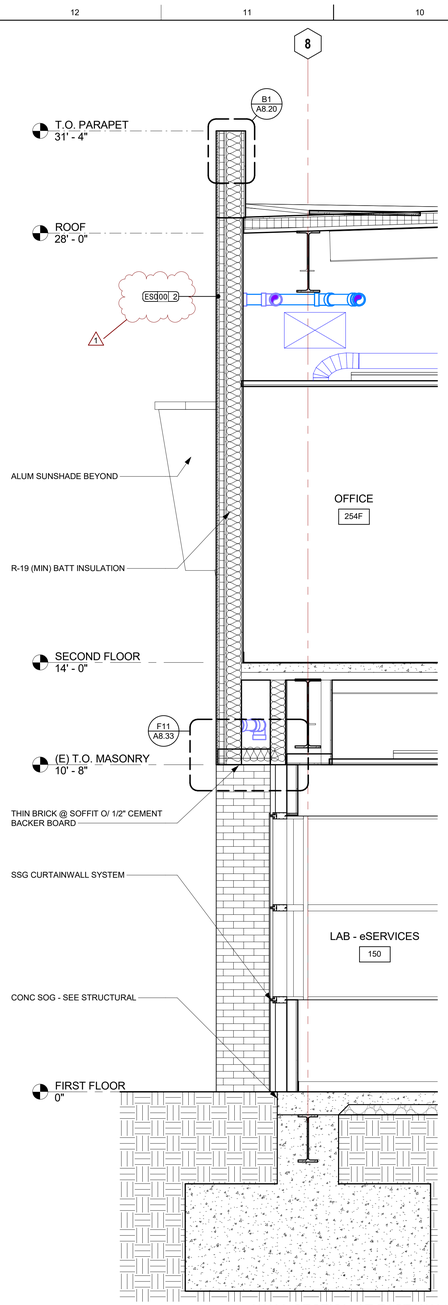
WALL SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

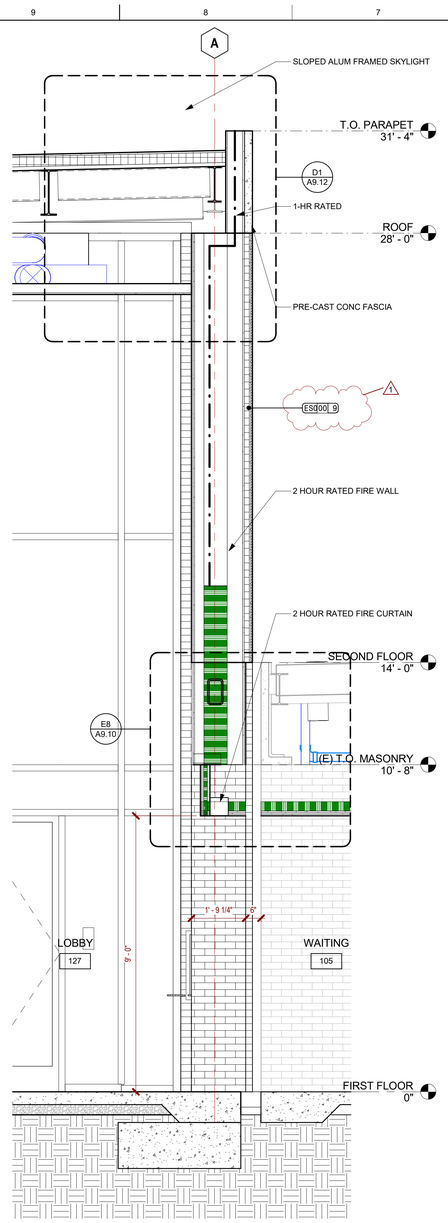
SHEET NO:

A3.31

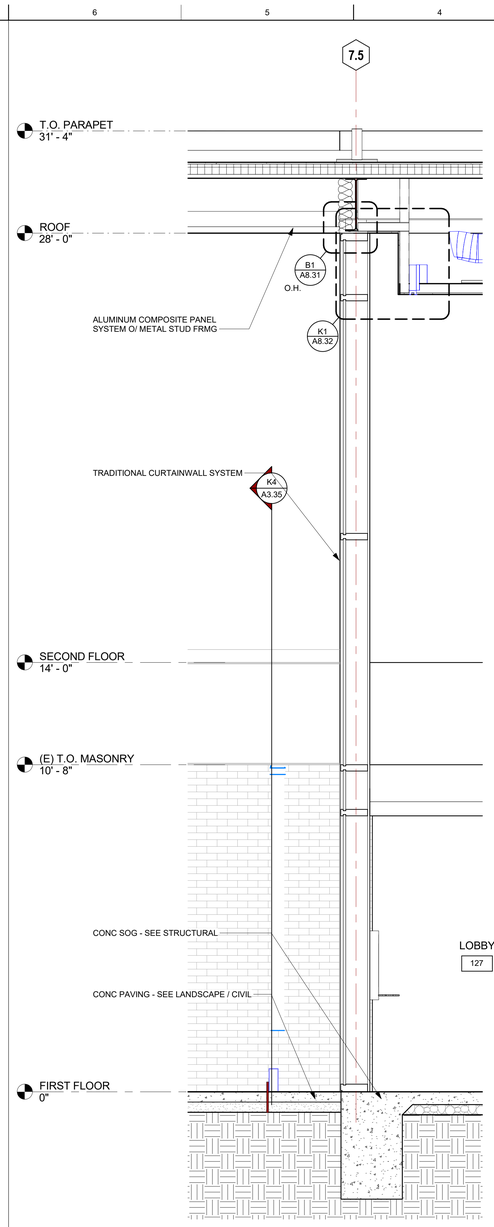
DSA SUBMITTAL II



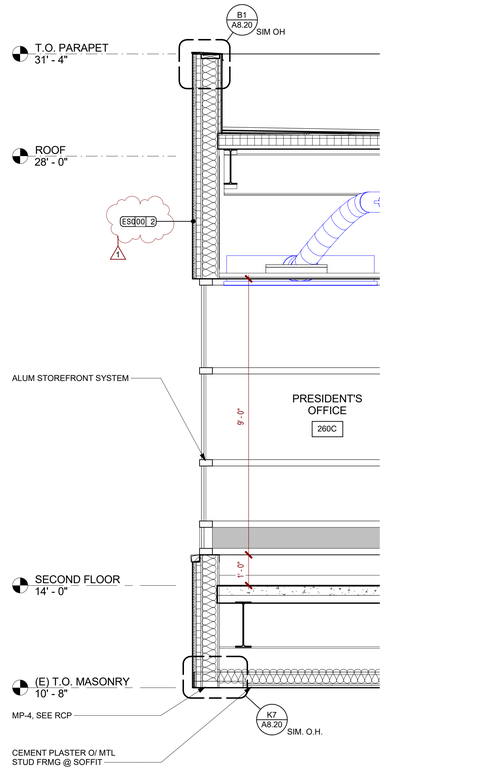
WALL SECTION AT EAST WALL | G10
1/2" = 1'-0"



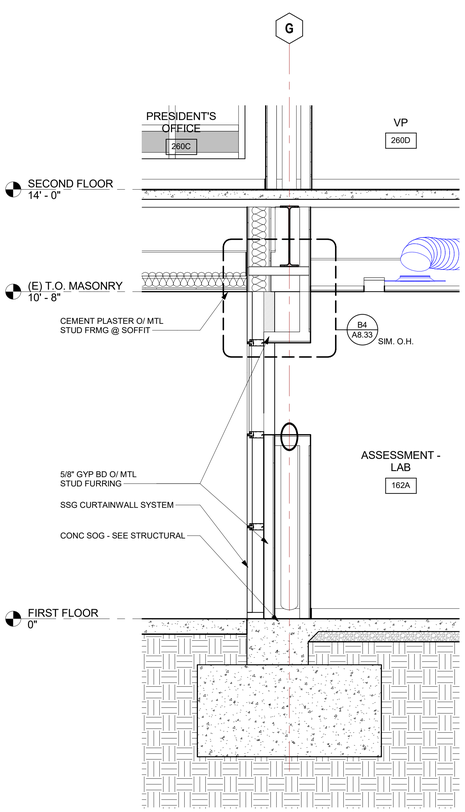
WALL SECTION AT LOBBY - SOUTH | G7
1/2" = 1'-0"



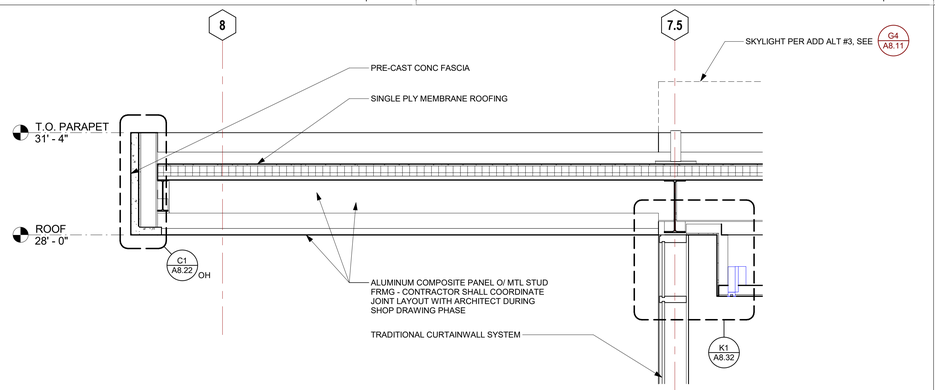
WALL SECTION AT LOBBY - EAST | G4
1/2" = 1'-0"



WALL SECTION AT PRESIDENT'S OFFICE | E1
1/2" = 1'-0"



WALL SECTION AT NORTH WALL - ASSESSMENT LAB | K1
1/2" = 1'-0"



SECTION AT SOUTHEAST ENTRY OVERHANG | K7
1/2" = 1'-0"

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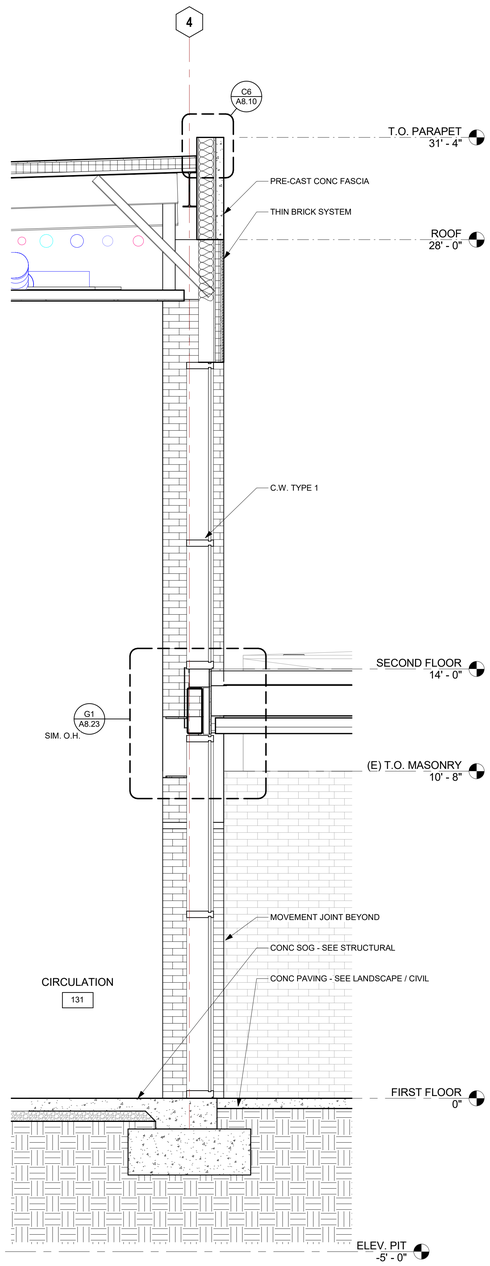
WALL SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

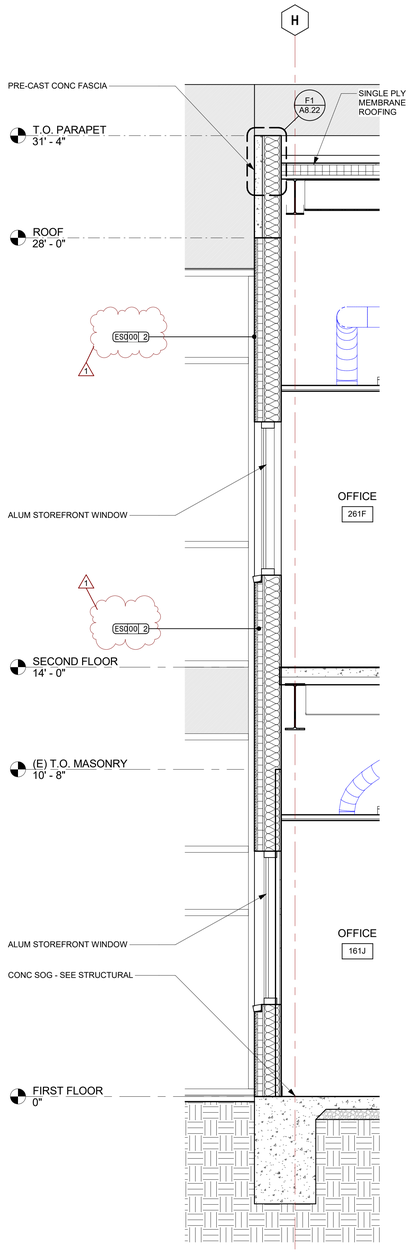
SHEET NO:

A3.32

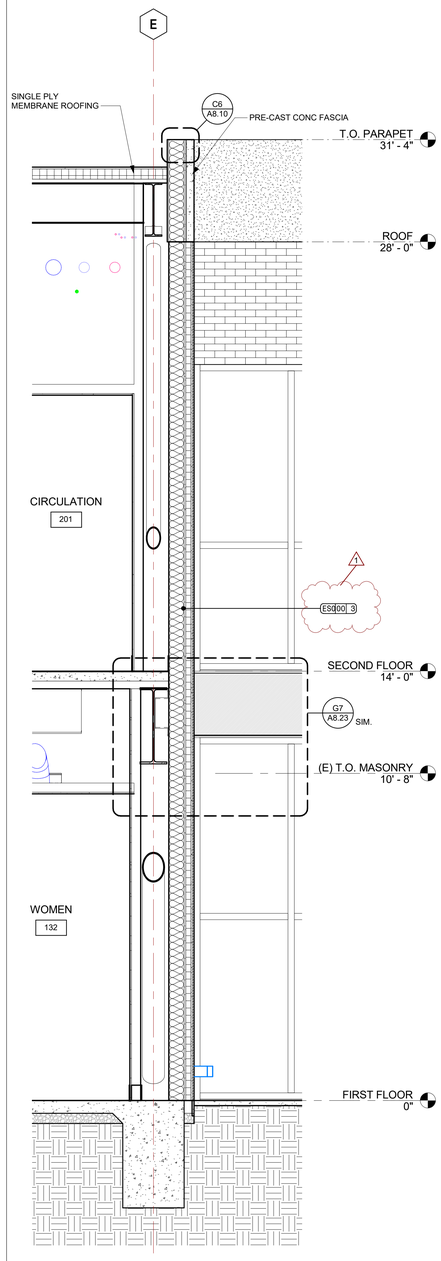
DSA SUBMITTAL II



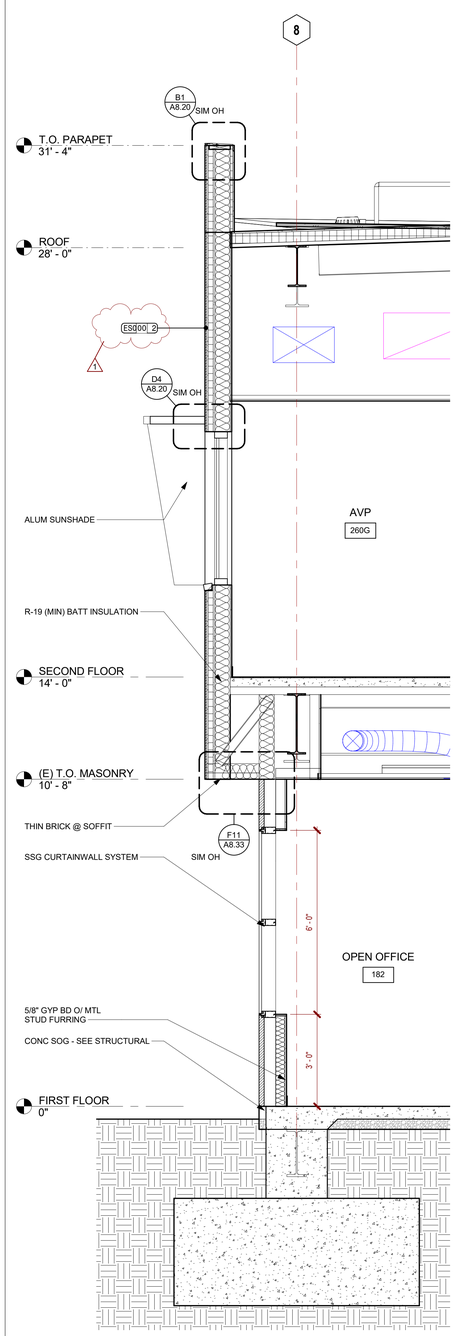
WALL SECTION AT WEST ENTRY | H10
1/2" = 1'-0"



WALL SECTION AT NORTH WALL | H7
1/2" = 1'-0"



WALL SECTION AT SOUTH WALL | H4
1/2" = 1'-0"



WALL SECTION AT EAST WALL | H1
1/2" = 1'-0"

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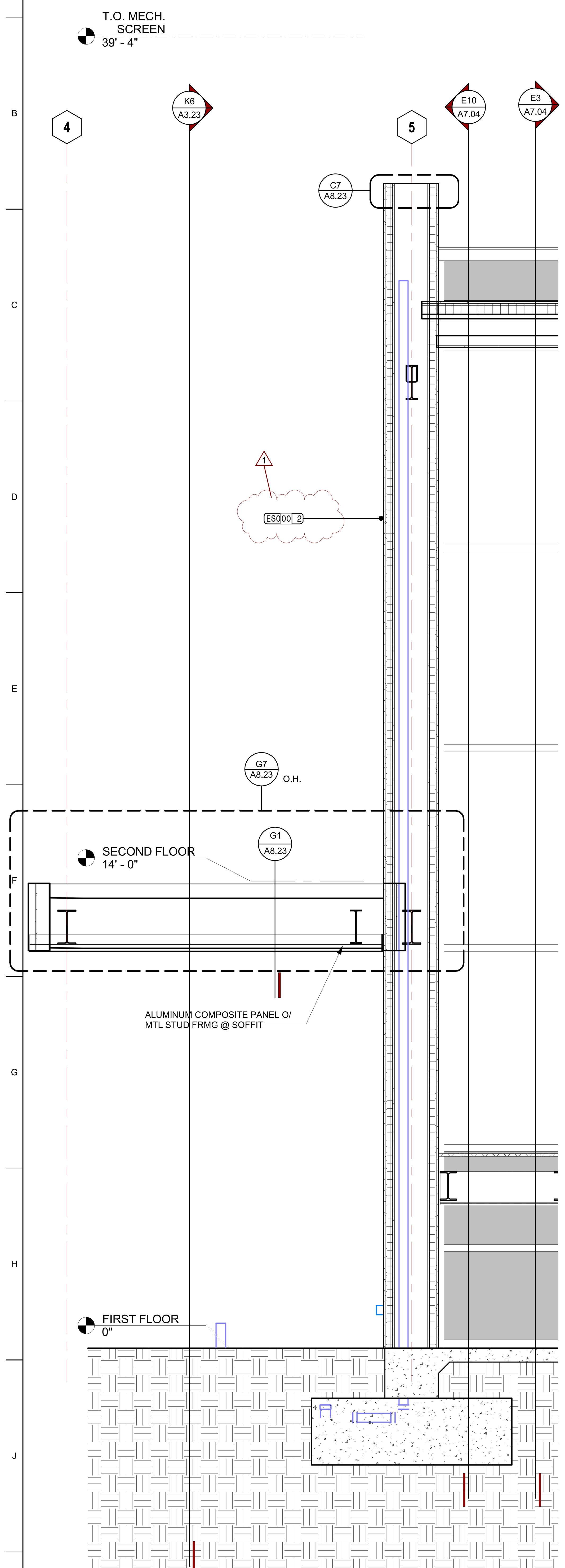
WALL SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

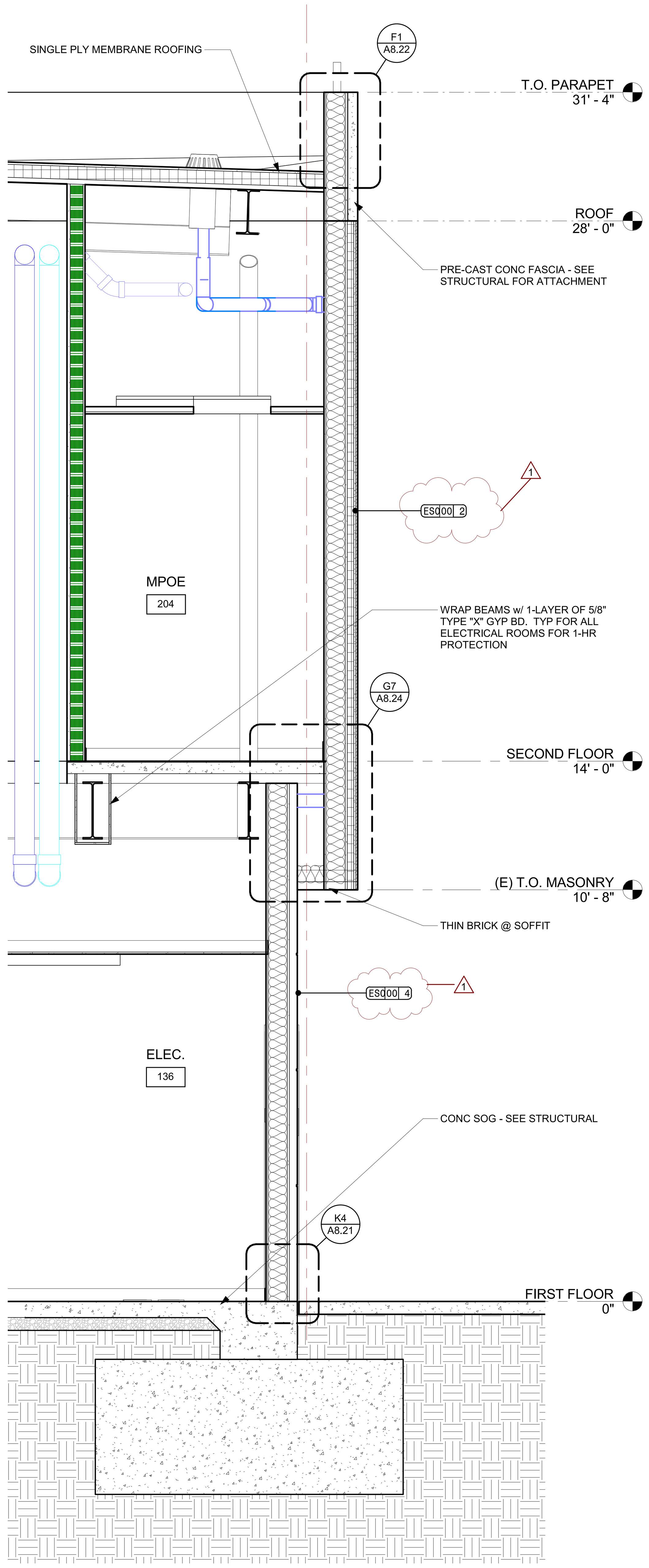
SHEET NO:

A3.33

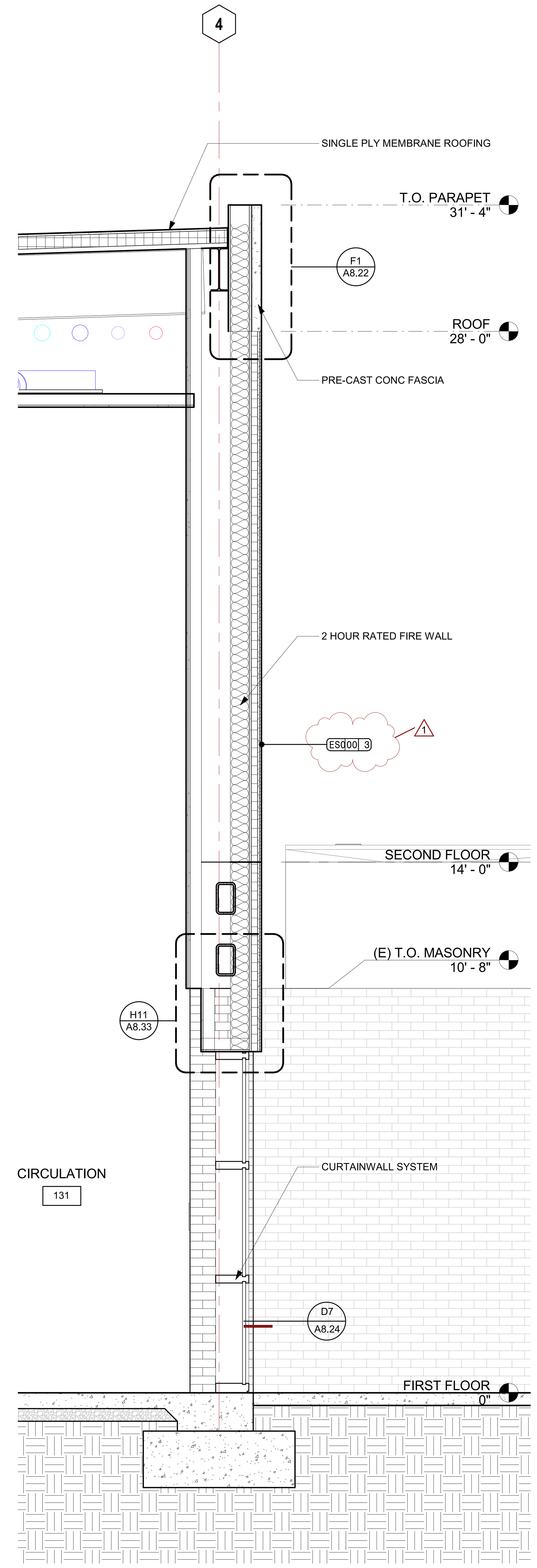
DSA SUBMITTAL II



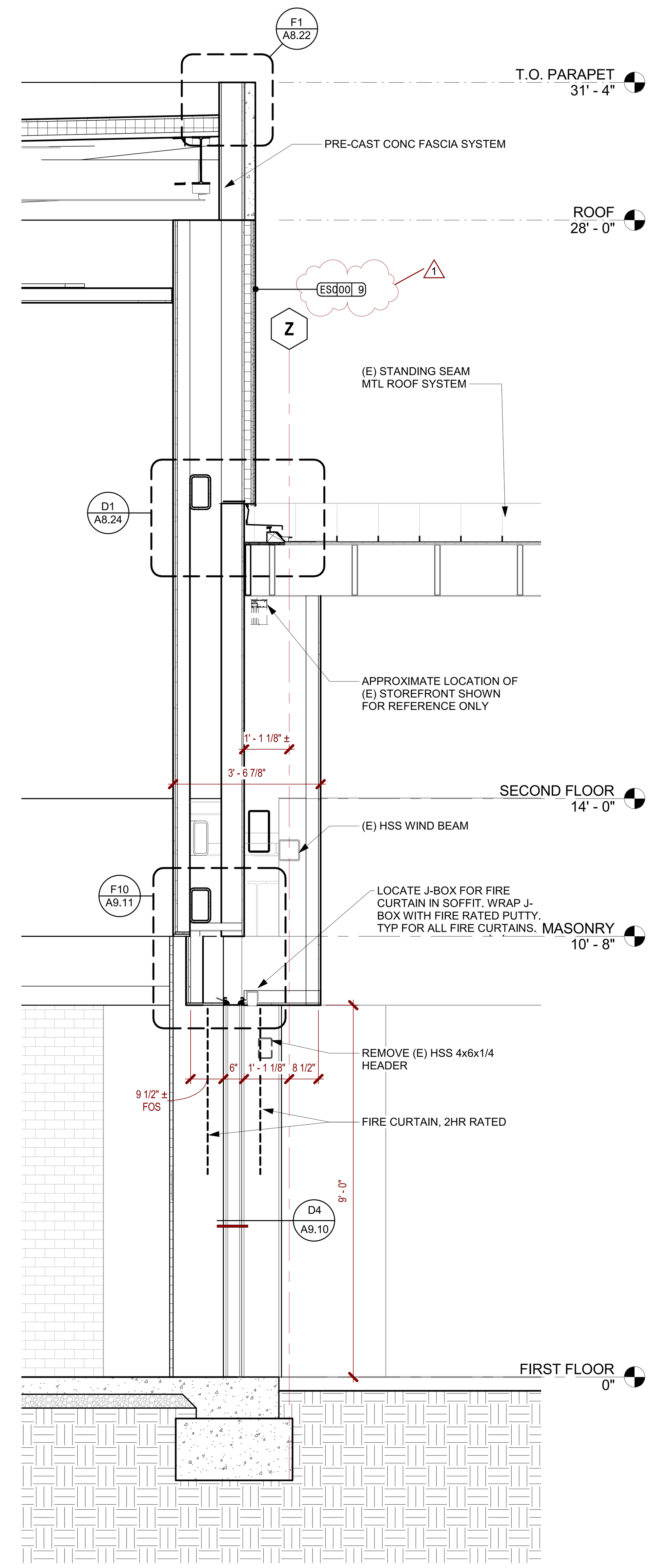
WALL SECTION AT CLOCK TOWER H10
1/2" = 1'-0"



WALL SECTION AT WEST WALL H7
1/2" = 1'-0"



WALL SECTION AT EXISTING ROOF H4
1/2" = 1'-0"



WALL SECTION AT EXISTING BUILDING INTERFACE H1
1/2" = 1'-0"

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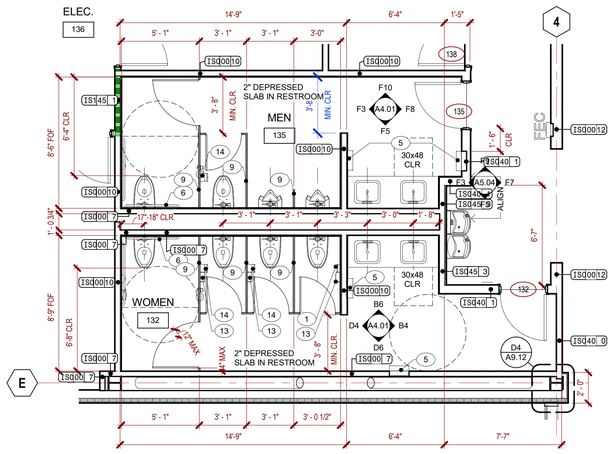
WALL SECTIONS

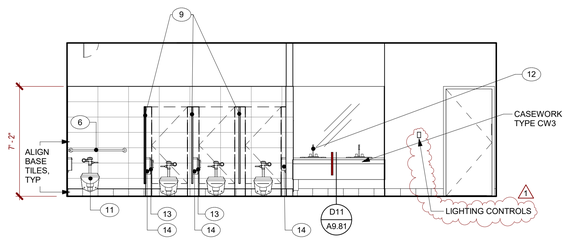
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

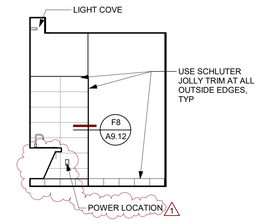
A3.34



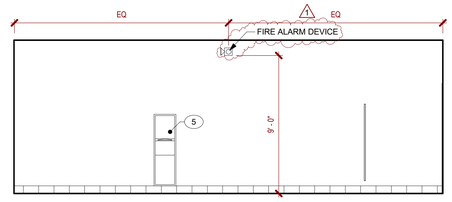
ENLARGED PLAN AT FIRST FLOOR RESTROOMS | D9
1/4" = 1'-0"



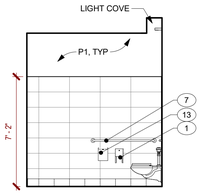
132 WOMEN'S RESTROOM NORTH | B6
1/4" = 1'-0"



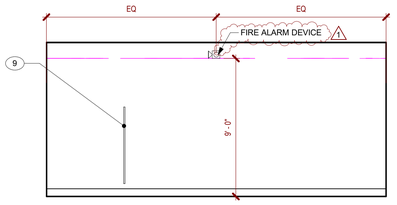
132 WOMEN'S RESTROOM EAST | B4
1/4" = 1'-0"



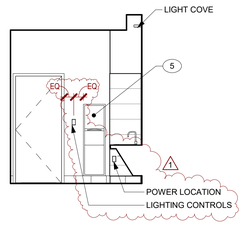
132 WOMEN'S RESTROOM SOUTH | D6
1/4" = 1'-0"



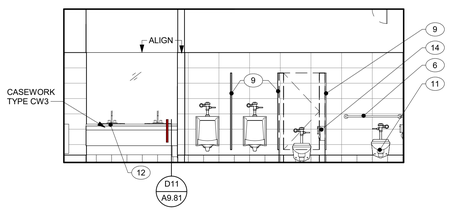
132 WOMEN'S RESTROOM WEST | D4
1/4" = 1'-0"



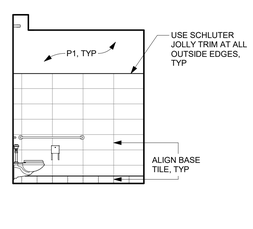
135 MEN'S RESTROOM NORTH | F10
1/4" = 1'-0"



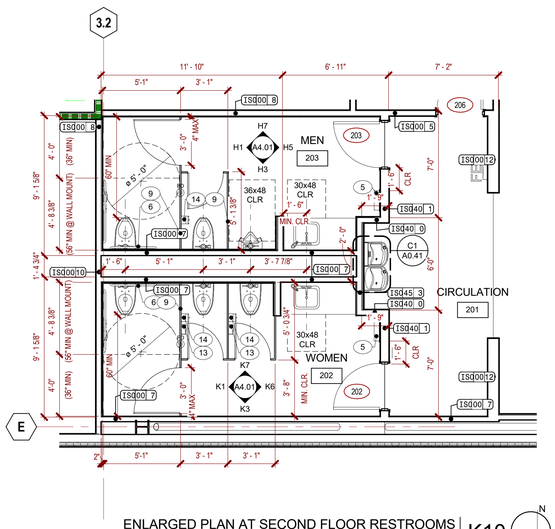
135 MEN'S RESTROOM EAST | F8
1/4" = 1'-0"



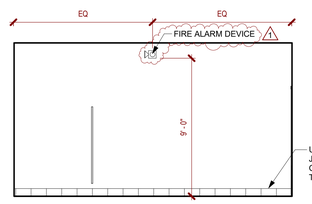
135 MEN'S RESTROOM SOUTH | F5
1/4" = 1'-0"



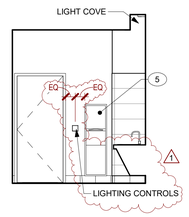
135 MENS RESTROOM WEST | F3
1/4" = 1'-0"



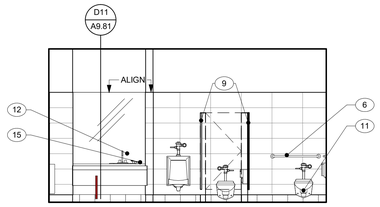
ENLARGED PLAN AT SECOND FLOOR RESTROOMS | K10
1/4" = 1'-0"



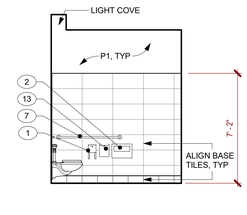
203 MEN'S RESTROOM NORTH | H7
1/4" = 1'-0"



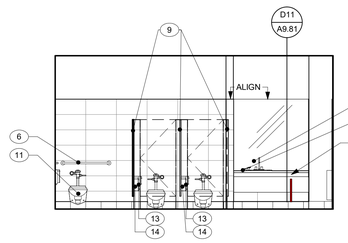
203 MEN'S RESTROOM EAST | H5
1/4" = 1'-0"



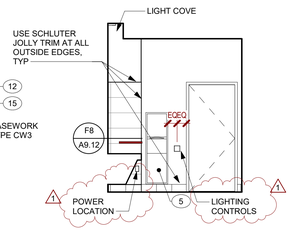
203 MEN'S RESTROOM SOUTH | H3
1/4" = 1'-0"



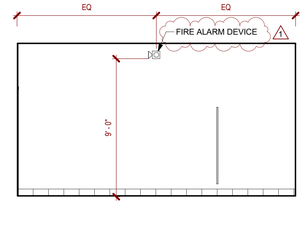
203 MEN'S RESTROOM WEST | H1
1/4" = 1'-0"



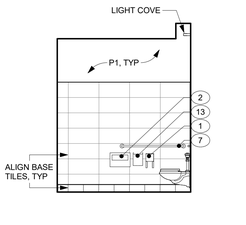
202 WOMEN'S RESTROOM NORTH | K7
1/4" = 1'-0"



202 WOMEN'S RESTROOM EAST | K6
1/4" = 1'-0"



202 WOMEN'S RESTROOM SOUTH | K3
1/4" = 1'-0"



202 WOMEN'S RESTROOM WEST | K1
1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET A0.40 FOR ADDITIONAL DIMENSIONS, CLEARANCES NOT NOTED ON THIS SHEET.
2. REFER TO DETAIL H3 / A9.12 FOR FLOOR DRAINAGE
3. CUT BASE TILE ACCORDINGLY TO ALIGN WITH TILE ABOVE.
4. FLOOR TILE SHALL ALIGN WITH WALL TILE

TOILET ACCESSORIES LEGEND

1. SEMI-RECESSED TOILET TISSUE DISPENSER; MFR: BOBRICK, MODEL # B-4388
2. TOILET SEAT COVER DISPENSER; MFR: BOBRICK, MODEL # B-4221
3. SOAP DISPENSER, SURFACE-MOUNTED, MFR: BOBRICK, MODEL # 818615
4. HI-LO DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
5. COMBINATION RECESSED WASTE / PAPER TOWEL DISPENSER, MFR: BOBRICK, MODEL # B-3947
6. 42" GRAB BAR, MFR: BOBRICK, MODEL # B-6806 SERIES - SEE SHEET A0.40
7. 48" GRAB BAR, MFR: BOBRICK, MODEL # B-6806 SERIES - SEE SHEET A0.40
8. MIRROR, MFR: BOBRICK, MODEL # B-165 2448
9. TOILET PARTITION / URINAL SCREEN
10. COAT HOOK WITH BUMPER, 48" A.F.F. AT ACCESSIBLE STALLS AND SINGLE ACCOMMODATION TOILETS MFR: BOBRICK, MODEL # B-212
11. ACCESS COMPLIANT WATER CLOSET - SEE PLUMBING
12. ACCESS COMPLIANT LAVATORY - SEE PLUMBING
13. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, MFR: BOBRICK, MODEL # B-270
14. PARTITION MOUNTED TOILET TISSUE DISPENSER, MFR: BOBRICK, MODEL # B-4288
15. COUNTER MOUNTED AUTOMATIC SOAP DISPENSER, FOAM, MFR:BOBRICK, MODEL #B-824

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CONSULTANT

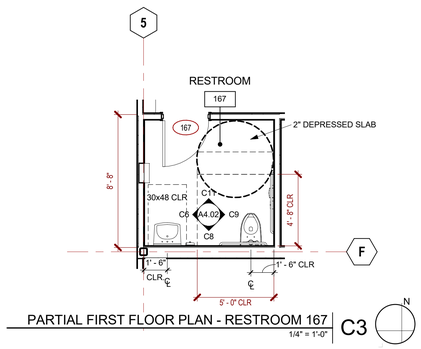
ENLARGED RESTROOM PLANS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

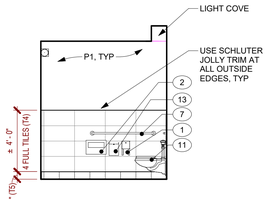
A4.01

DSA SUBMITTAL II

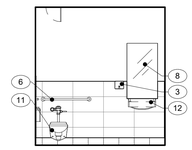


PARTIAL FIRST FLOOR PLAN - RESTROOM 167 | C3
1/4" = 1'-0"

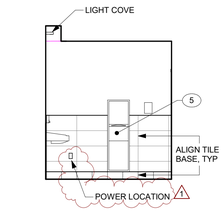
167 RESTROOM NORTH | C11
1/4" = 1'-0"



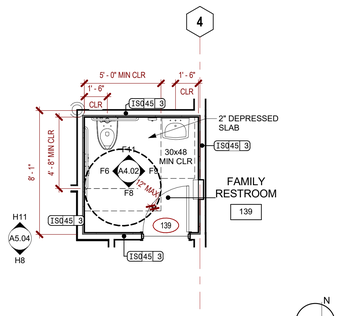
167 RESTROOM EAST | C9
1/4" = 1'-0"



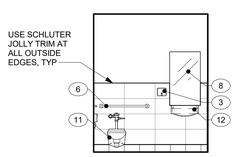
167 RESTROOM SOUTH | C8
1/4" = 1'-0"



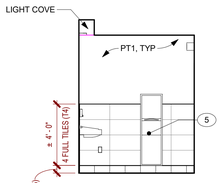
167 RESTROOM WEST | C6
1/4" = 1'-0"



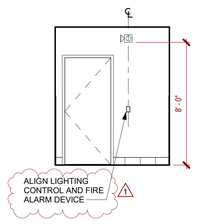
PARTIAL FIRST FLOOR PLAN - RESTROOM 139 | F3
1/4" = 1'-0"



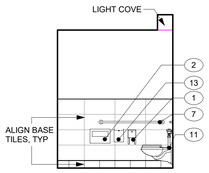
139 FAMILY RESTROOM NORTH | F11
1/4" = 1'-0"



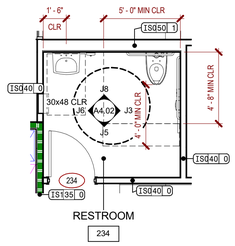
139 FAMILY RESTROOM EAST | F9
1/4" = 1'-0"



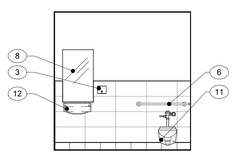
139 FAMILY RESTROOM SOUTH | F8
1/4" = 1'-0"



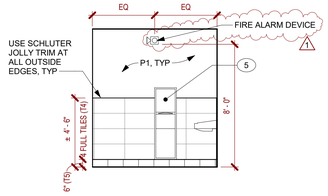
139 FAMILY RESTROOM WEST | F6
1/4" = 1'-0"



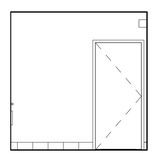
ENLARGED PLAN - RESTROOM 234 | J10
1/4" = 1'-0"



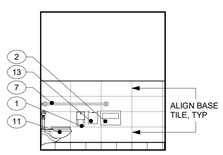
RESTROOM 234 - NORTH | J8
1/4" = 1'-0"



RESTROOM 234 - EAST | J6
1/4" = 1'-0"



RESTROOM 234 - SOUTH | J5
1/4" = 1'-0"



RESTROOM 234 - WEST | J3
1/4" = 1'-0"

GENERAL NOTES

1. SEE SHEET A0.40 FOR ADDITIONAL DIMENSIONS, CLEARANCES NOT NOTED ON THIS SHEET. 1
2. REFER TO DETAIL H3 / A9.12 FOR FLOOR DRAINAGE
3. CUT BASE TILE ACCORDINGLY TO ALIGN WITH TILE ABOVE.
4. FLOOR TILE SHALL ALIGN WITH WALL TILE

TOILET ACCESSORIES LEGEND

1. SEMI-RECESSED TOILET TISSUE DISPENSER; MFR: BOBRICK, MODEL # B-4388
2. TOILET SEAT COVER DISPENSER; MFR: BOBRICK, MODEL # B-4221
3. SOAP DISPENSER, SURFACE-MOUNTED, MFR: BOBRICK, MODEL # 818615
4. HI-LO DRINKING FOUNTAIN - SEE PLUMBING DRAWINGS
5. COMBINATION RECESSED WASTE / PAPER TOWEL DISPENSER, MFR: BOBRICK, MODEL # B-3947
6. 42" GRAB BAR, MFR: BOBRICK, MODEL # B-6806 SERIES - SEE SHEET A0.40
7. 48" GRAB BAR, MFR: BOBRICK, MODEL # B-6806 SERIES - SEE SHEET A0.40
8. MIRROR, MFR: BOBRICK, MODEL # B-165 2448
9. TOILET PARTITION / URINAL SCREEN
10. COAT HOOK WITH BUMPER, 48" A.F.F. AT ACCESSIBLE STALLS AND SINGLE ACCOMMODATION TOILETS MFR: BOBRICK, MODEL # B-212
11. ACCESS COMPLIANT WATER CLOSET - SEE PLUMBING
12. ACCESS COMPLIANT LAVATORY - SEE PLUMBING
13. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL, MFR: BOBRICK, MODEL # B-270
14. PARTITION MOUNTED TOILET TISSUE DISPENSER, MFR: BOBRICK, MODEL # B-4288
15. COUNTER MOUNTED AUTOMATIC SOAP DISPENSER, FOAM, MFR:BOBRICK, MODEL #B-824

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY DEVINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC ____ FLS ____ SS ____
DATE ____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

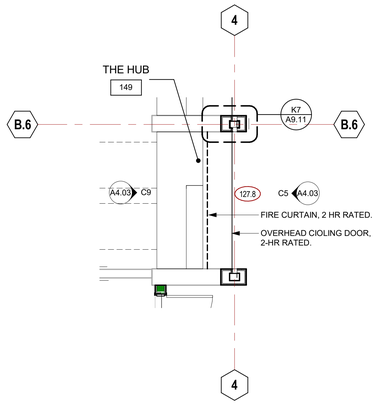
ENLARGED RESTROOM PLANS

PROJECT NO: 201-0065
DATE: 01.15.2018

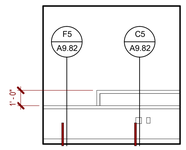
SHEET NO:

A4.02

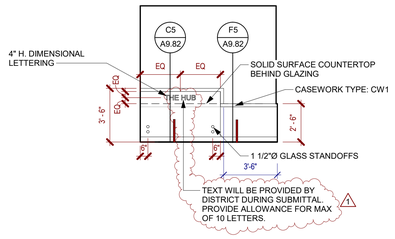
DSA SUBMITTAL II



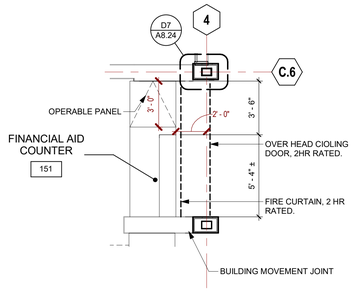
ENLARGED PLAN AT 149 THE HUB | C11
1/4" = 1'-0"



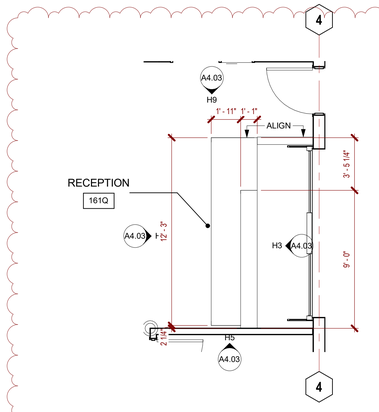
149 THE HUB - STAFF SIDE (FINANCIAL AID SIM) | C9
1/4" = 1'-0"



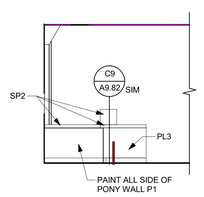
149 THE HUB - PUBLIC SIDE (FINANCIAL AID SIM) | C5
1/4" = 1'-0"



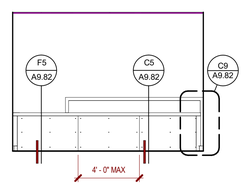
ENLARGED PLAN AT FINANCIAL AID 151 | G11
* SIMILAR TO 149 THE HUB
1/4" = 1'-0"



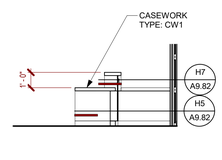
ENLARGED PLAN AT 161Q OPEN OFFICE | H11
1/4" = 1'-0"



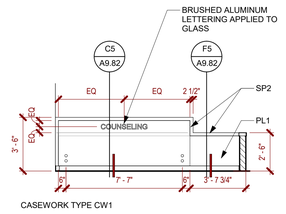
161Q OPEN OFFICE NORTH | H9
1/4" = 1'-0"



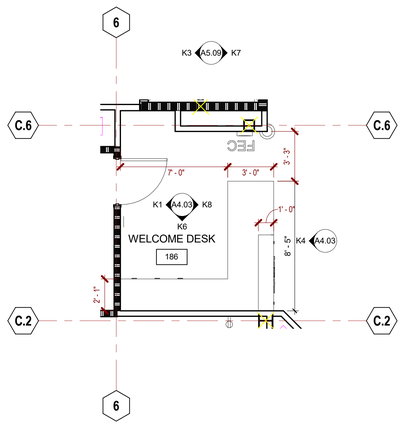
161Q OPEN OFFICE RECEPTION - STAFF SIDE | H6
1/4" = 1'-0"



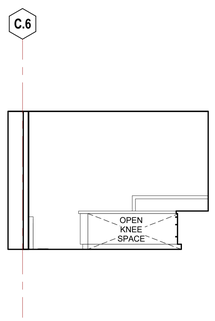
161Q OPEN OFFICE SOUTH | H5
1/4" = 1'-0"



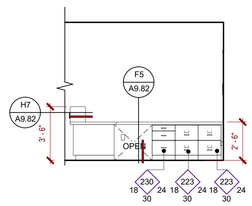
161Q OPEN OFFICE RECEPTION - PUBLIC SIDE | H3
1/4" = 1'-0"



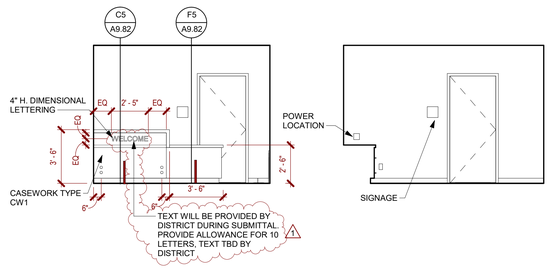
ENLARGED WELCOME DESK 186 | K10
1/4" = 1'-0"



186 WELCOME DESK EAST - STAFF SIDE | K8
1/4" = 1'-0"



186 WELCOME DESK SOUTH - STAFF SIDE | K6
1/4" = 1'-0"



186 WELCOME DESK WEST PUBLIC SIDE | K4
1/4" = 1'-0"

186 WELCOME DESK WEST | K1
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET A2.30 FOR INTERIOR FINISHES AND LEGEND.
2. UNLESS OTHERWISE NOTED, PAINT INTERIOR WALLS P1, REFER TO FINISH PLAN SHEETS A2.31 & A2.32 FOR ADDITIONAL INFORMATION
3. REFER TO SHEET A9.80 FOR CABINET TYPES
4. ALL EXPOSED BRACE FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR U.O.N
5. ALL PROJECTION SCREENS AND PROJECTORS LOCATIONS TO BE VERIFIED IN FIELD PRIOR TO INSTALLATION.
6. THERE SHALL BE NO EXPOSED JUNCTION BOXES OR SURFACE MOUNTED CONDUIT. 1

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
6-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS____ SS____
DATE ____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

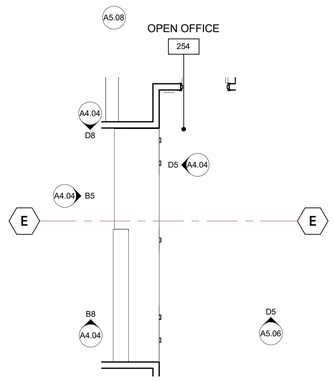
SERVICE COUNTER PLANS / ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

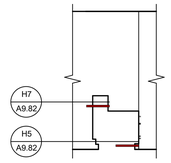
SHEET NO:

A4.03

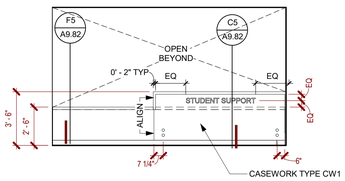
DSA SUBMITTAL II



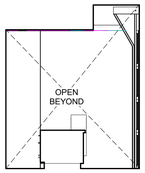
ENLARGED PLAN 254 OPEN OFFICE DESK 1/4" = 1'-0" | D11



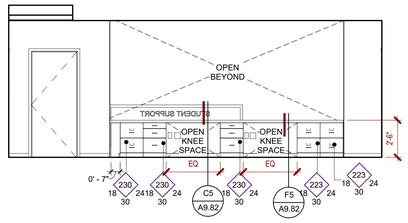
254 OPEN OFFICE DESK NORTH 1/4" = 1'-0" | B8



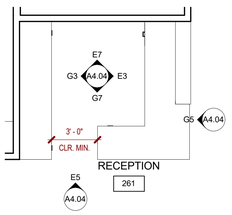
254 OPEN OFFICE DESK EAST 1/4" = 1'-0" | B5



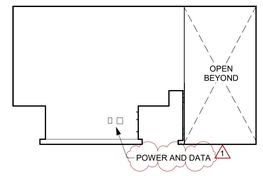
254 OPEN OFFICE SOUTH 1/4" = 1'-0" | D8



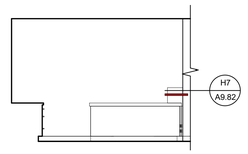
254 OPEN OFFICE DESK WEST 1/4" = 1'-0" | D5



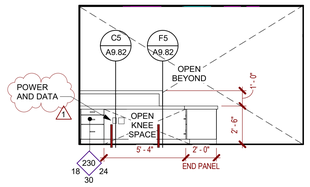
ENLARGED PLAN AT 261 RECEPTION 1/4" = 1'-0" | E11



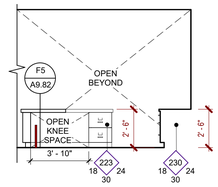
261 RECEPTION NORTH 1/4" = 1'-0" | E7



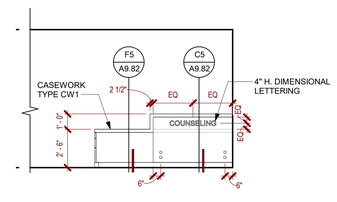
261 RECEPTION NORTH (PUBLIC SIDE) 1/4" = 1'-0" | E5



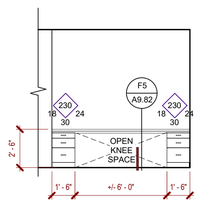
261 RECEPTION EAST - STAFF SIDE 1/4" = 1'-0" | E3



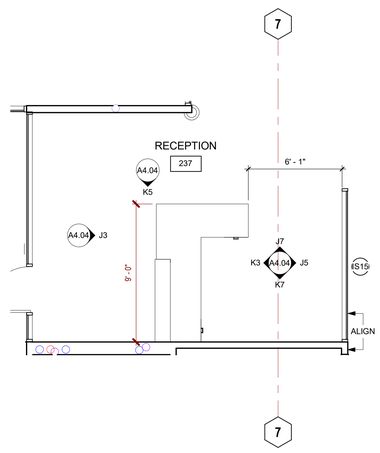
261 RECEPTION SOUTH - STAFF SIDE 1/4" = 1'-0" | G7



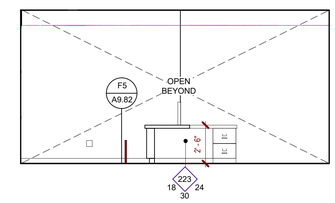
261 RECEPTION WEST - PUBLIC VIEW 1/4" = 1'-0" | G5



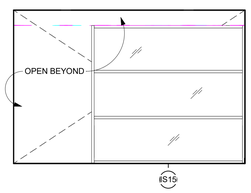
261 RECEPTION WEST (BACK WALL) 1/4" = 1'-0" | G3



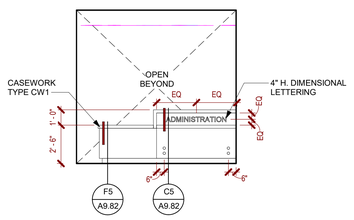
ENLARGED PAN AT 237 RECEPTION 1/4" = 1'-0" | K10



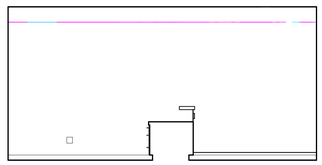
237 RECEPTION - NORTH 1/4" = 1'-0" | J7



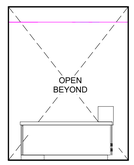
237 RECEPTION - EAST 1/4" = 1'-0" | J5



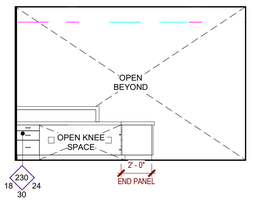
237 RECEPTION - EAST (FRONT OF DESK) 1/4" = 1'-0" | J3



237 RECEPTION - SOUTH 1/4" = 1'-0" | K7



237 RECEPTION - SOUTH (SIDE OF DESK) 1/4" = 1'-0" | K5



237 RECEPTION - WEST 1/4" = 1'-0" | K3

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET A2.30 FOR INTERIOR FINISHES AND LEGEND.
2. UNLESS OTHERWISE NOTED, PAINT INTERIOR WALLS P1, REFER TO FINISH PLAN SHEETS A2.31 & A2.32 FOR ADDITIONAL INFORMATION
3. REFER TO SHEET A9.80 FOR CABINET TYPES
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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5/31/19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

SERVICE COUNTER PLANS / ELEVATIONS

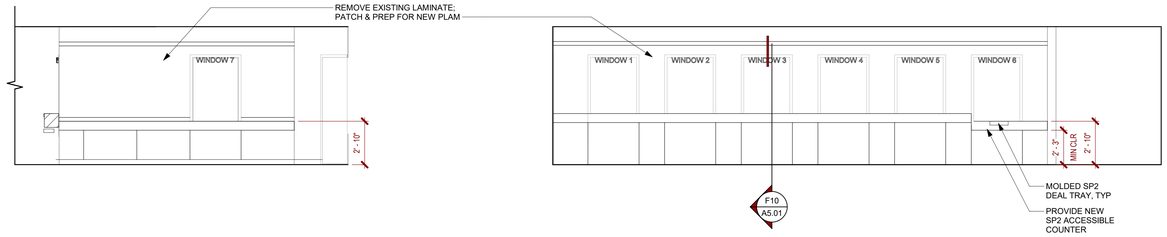
PROJECT NO: 201-0065

DATE: 01.15.2018

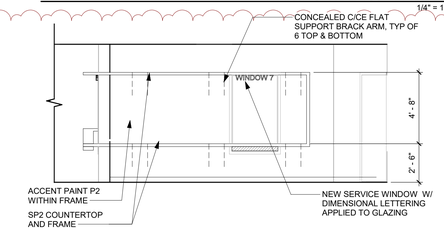
SHEET NO:

A4.04

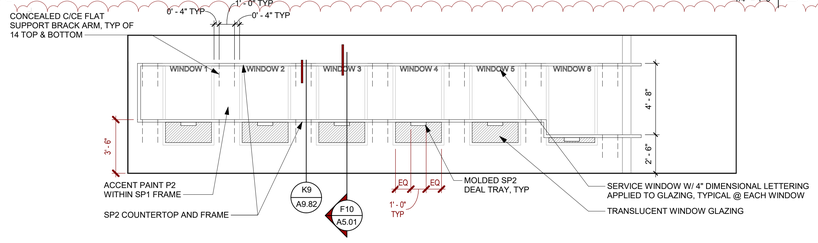
DSA SUBMITTAL II



WAITING SIDE 105 - BASE BID | B8
1/4" = 1'-0"

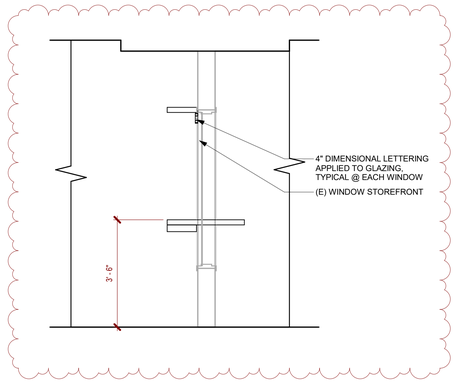


WAITING 105 - BASE BID | B3
1/4" = 1'-0"

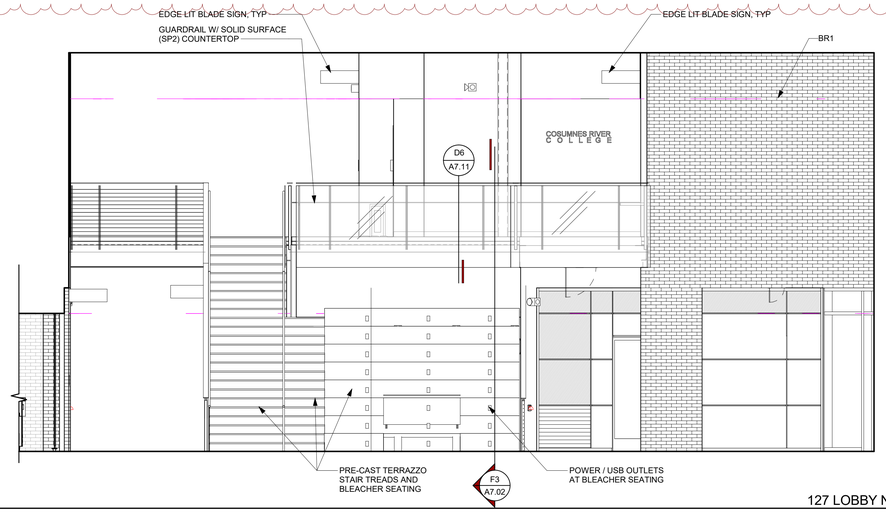


WAITING SIDE 105 - ADD ALT DESIGN | D8
1/4" = 1'-0"

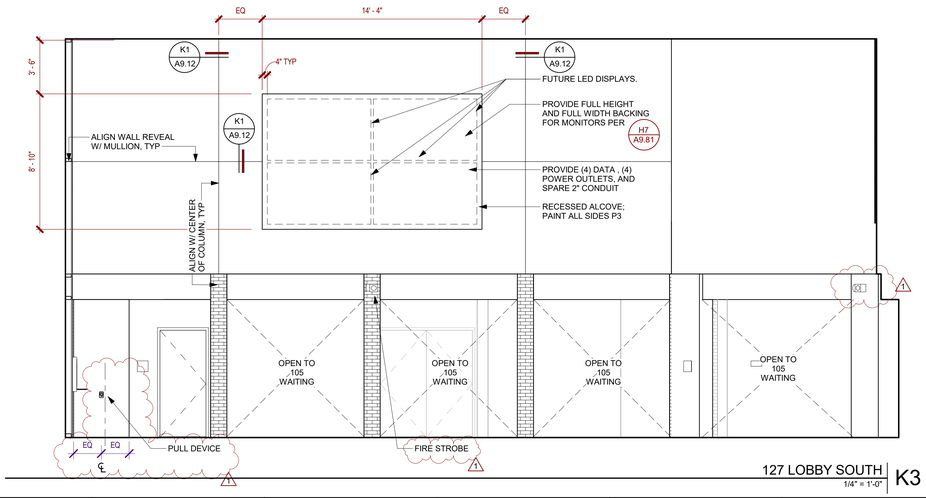
WAITING 105 - ADD ALT | D3
1/4" = 1'-0"



WAITING 105 SIDE | F10
1/2" = 1'-0"



127 LOBBY NORTH | F3
1/4" = 1'-0"



127 LOBBY SOUTH | K3
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

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TROY PENNINGTON
C-31285
9-31-19
RENEWAL DATE
STATE OF CALIFORNIA

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OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS _____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

INTERIOR ELEVATIONS

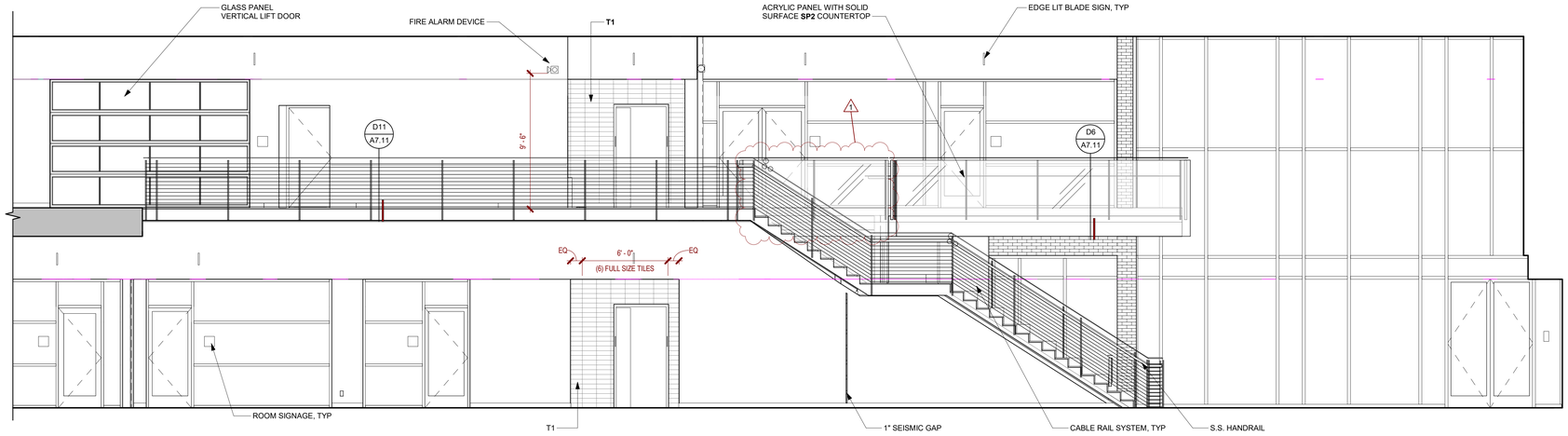
PROJECT NO: 201-0065

DATE: 01.15.2018

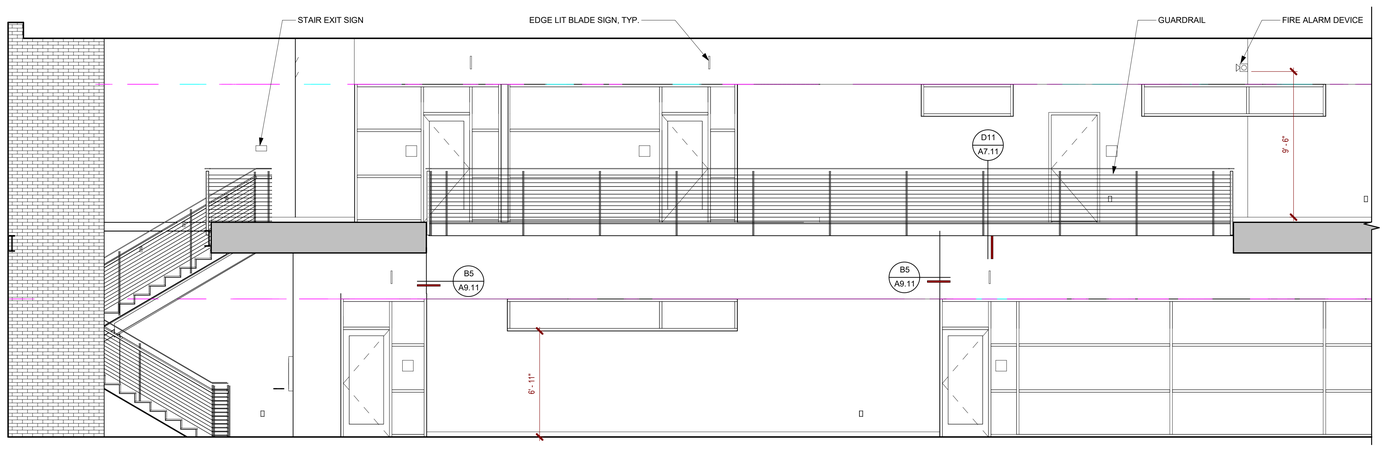
SHEET NO:

A5.01

DSA SUBMITTAL II



131 EAST LOBBY
1/4" = 1'-0" E3



131 EAST LOBBY CONT.
1/4" = 1'-0" K3

INTERIOR ELEVATIONS GENERAL NOTES

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

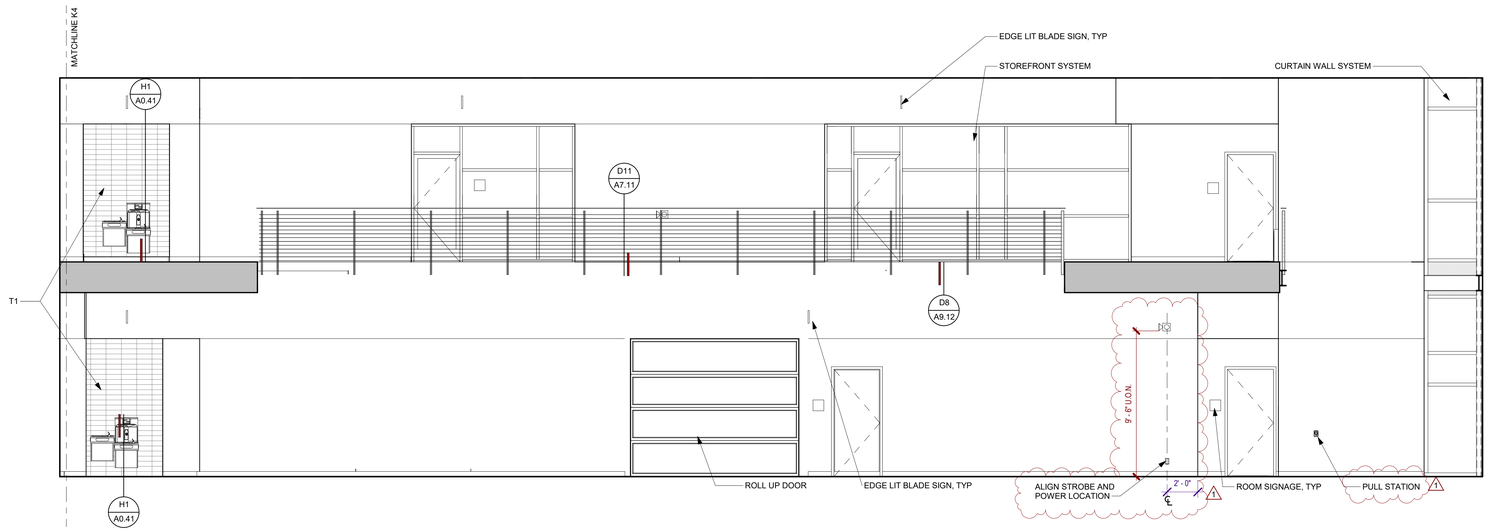
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

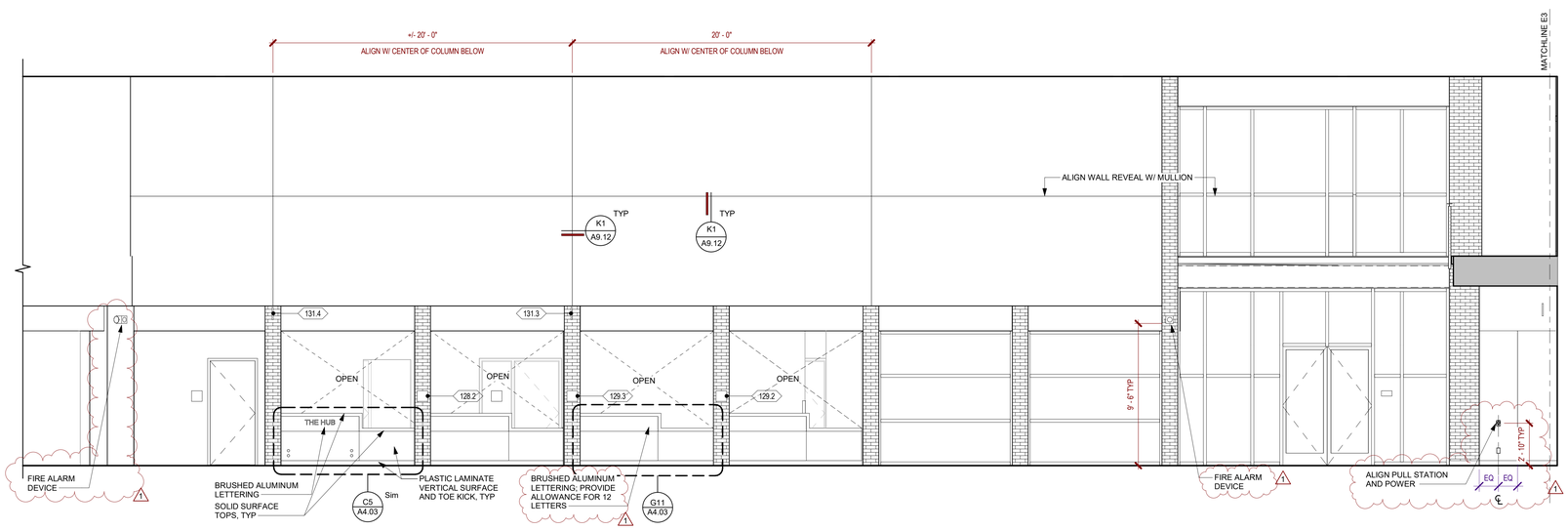
SHEET NO:

A5.02

DSA SUBMITTAL II



131 WEST LOBBY 2 | E3
1/4" = 1'-0"



131 WEST LOBBY CONT. | K3
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

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CONSULTANT

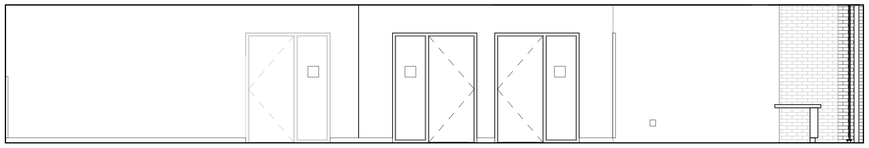
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

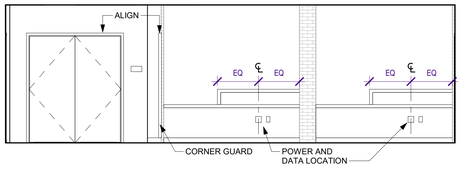
SHEET NO:

A5.03

DSA SUBMITTAL II

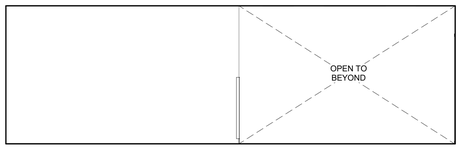


130 OPEN OFFICE - NORTH | B6
1/4" = 1'-0"

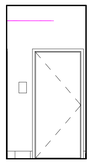


130 OPEN OFFICE - EAST | B3
1/4" = 1'-0"

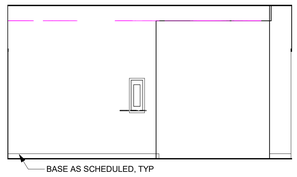
130 OPEN OFFICE - SOUTH | D6
1/4" = 1'-0"



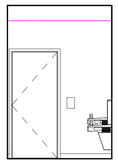
130 OPEN OFFICE - WEST | D3
1/4" = 1'-0"



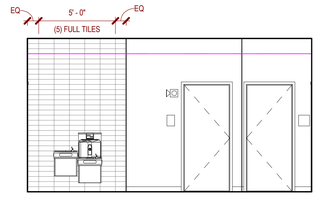
131 CIRCULATION - NORTH | F9
1/4" = 1'-0"



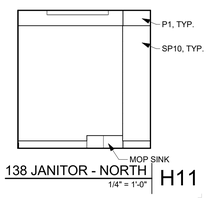
131 CIRCULATION - EAST | F7
1/4" = 1'-0"



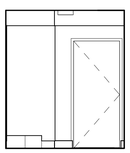
131 CIRCULATION - SOUTH | F5
1/4" = 1'-0"



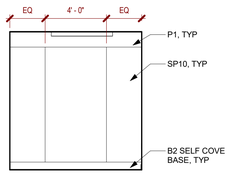
131 CIRCULATION - WEST | F3
1/4" = 1'-0"



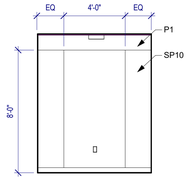
138 JANITOR - NORTH | H11
1/4" = 1'-0"



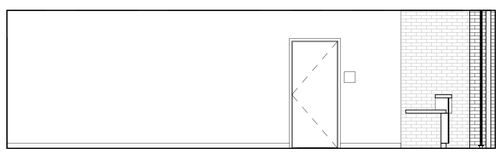
138 JANITOR - EAST | H10
1/4" = 1'-0"



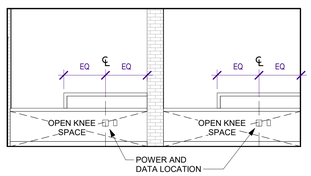
138 JANITOR - SOUTH | H8
1/4" = 1'-0"



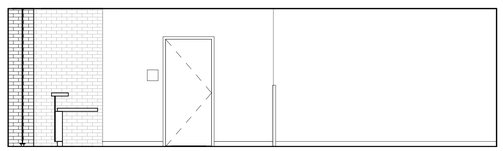
138 JANITOR - WEST | H6
1/4" = 1'-0"



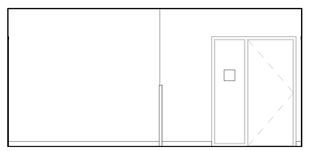
149 THE HUB - NORTH | H3
1/4" = 1'-0"



149 THE HUB - EAST | K9
1/4" = 1'-0"



149 THE HUB - SOUTH | K5
1/4" = 1'-0"



149 THE HUB - WEST | K3
1/4" = 1'-0"

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

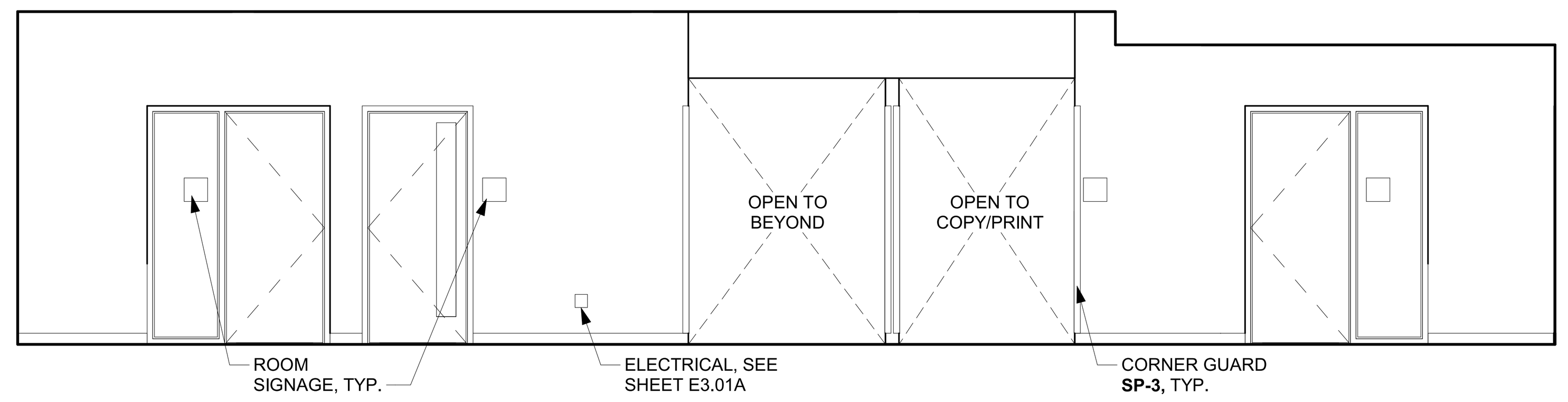
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

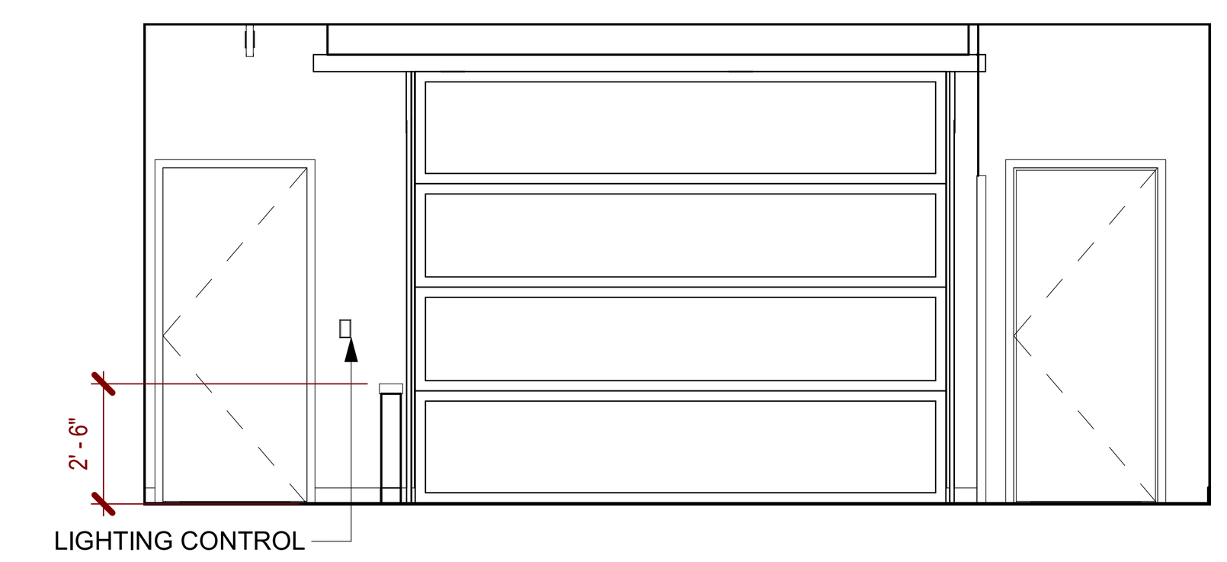
SHEET NO:

A5.04

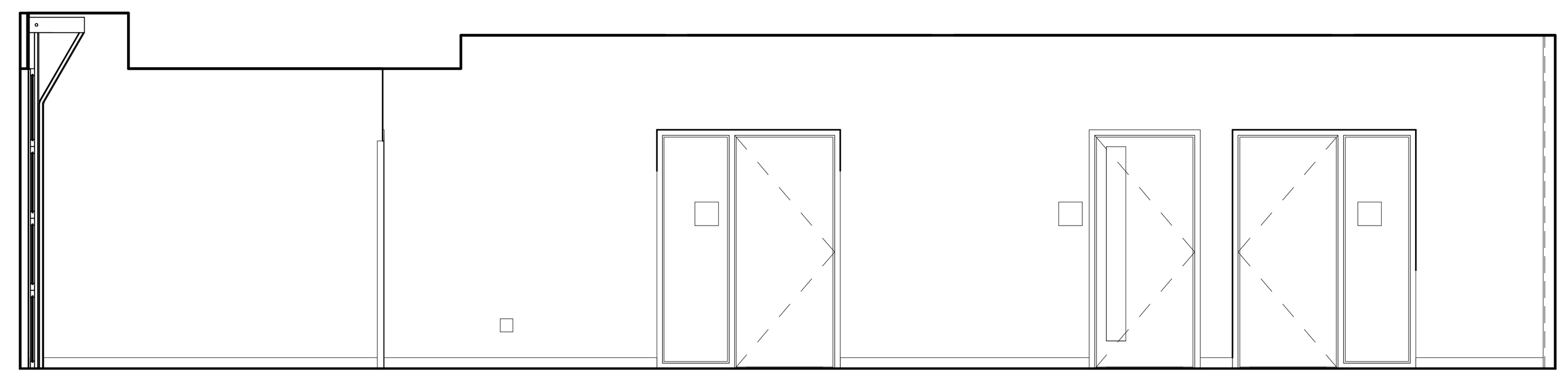
DSA SUBMITTAL II



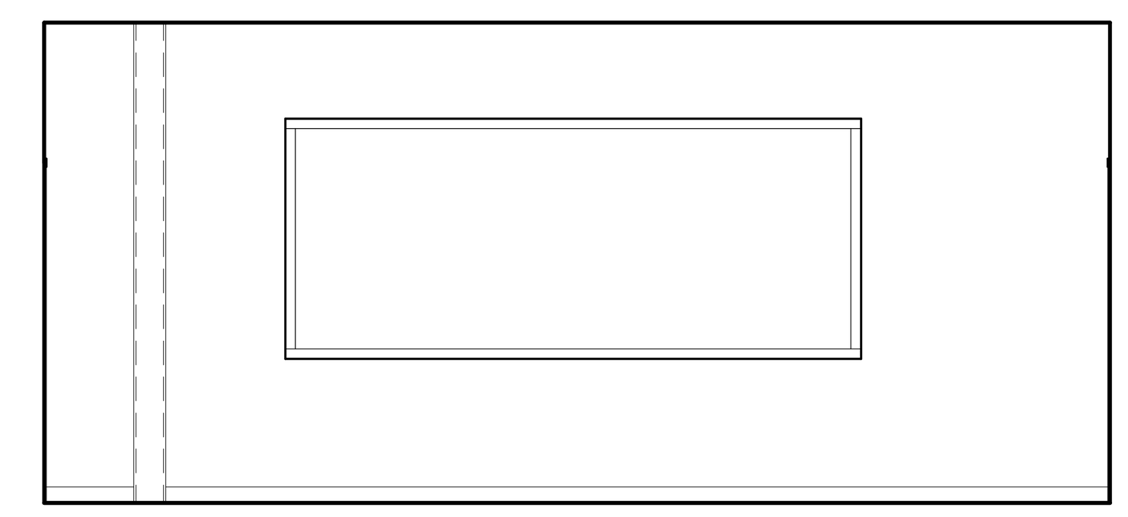
161 OPEN OFFICE - NORTH B6
1/4" = 1'-0"



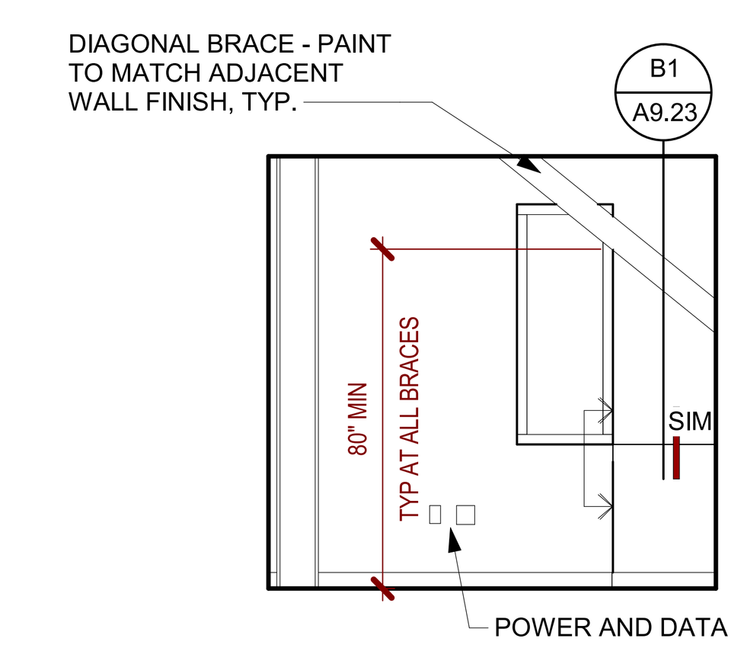
161 OPEN OFFICE - EAST B3
1/4" = 1'-0"



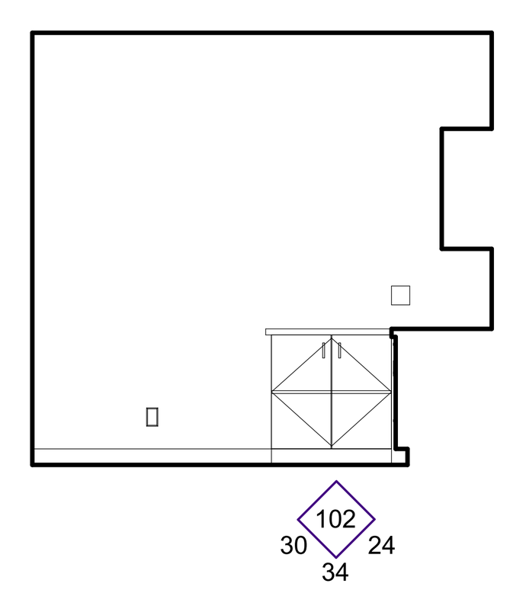
161 OPEN OFFICE - SOUTH D6
1/4" = 1'-0"



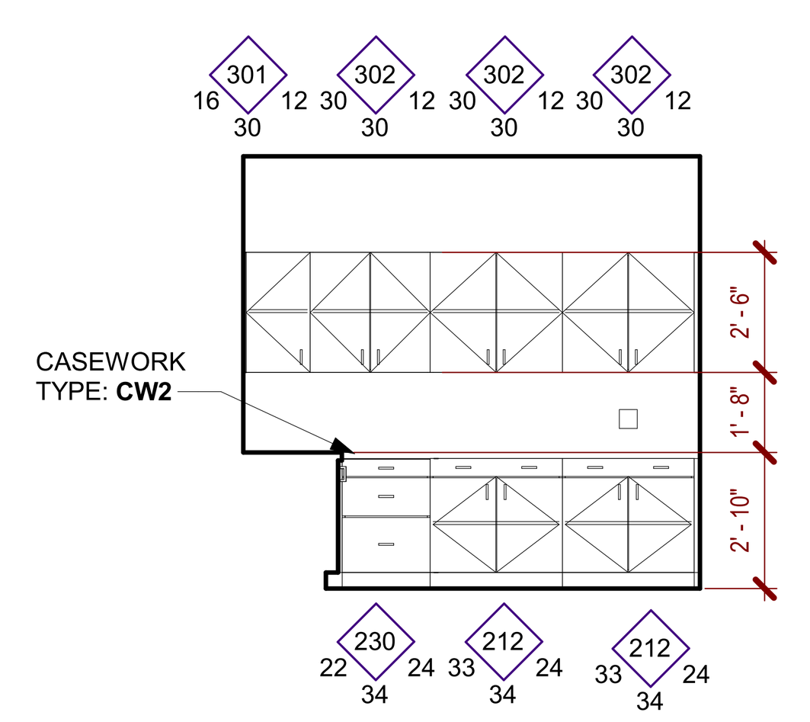
161 OPEN OFFICE - WEST D3
1/4" = 1'-0"



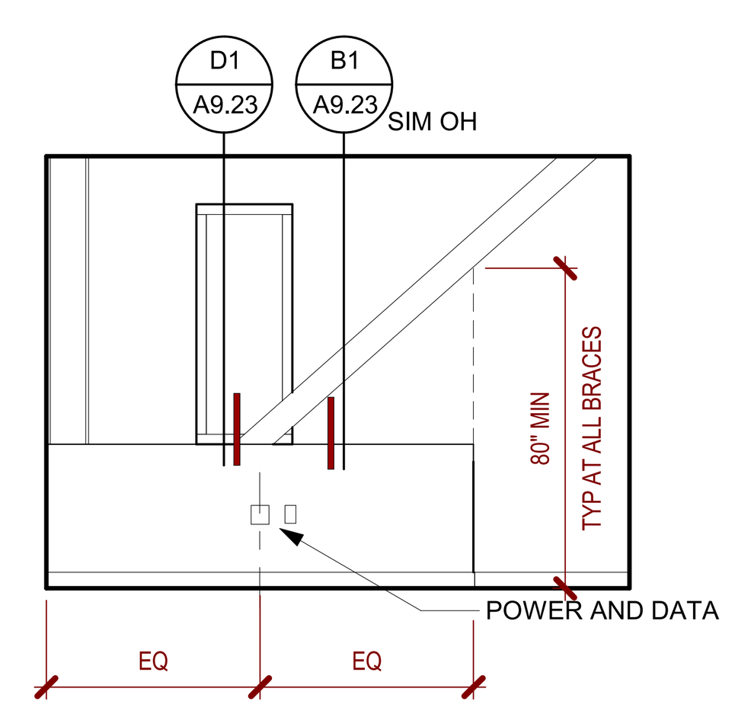
161E OFFICE WEST (261D SIM) F11
1/4" = 1'-0"



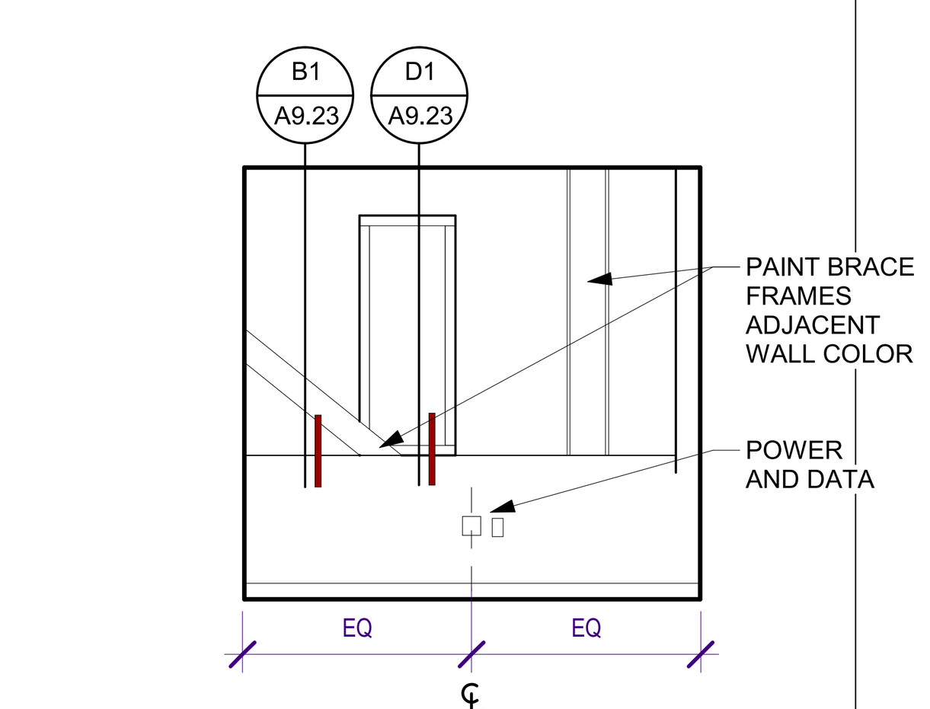
161G COPY/PRINT AREA NORTH F9
1/4" = 1'-0"



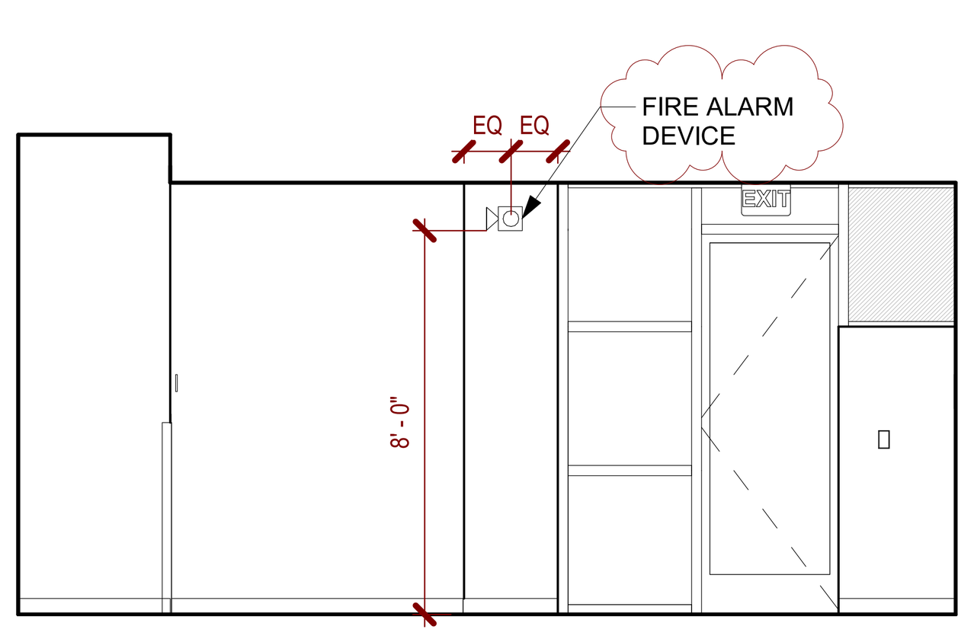
161G COPY/PRINT AREA EAST F7
1/4" = 1'-0"



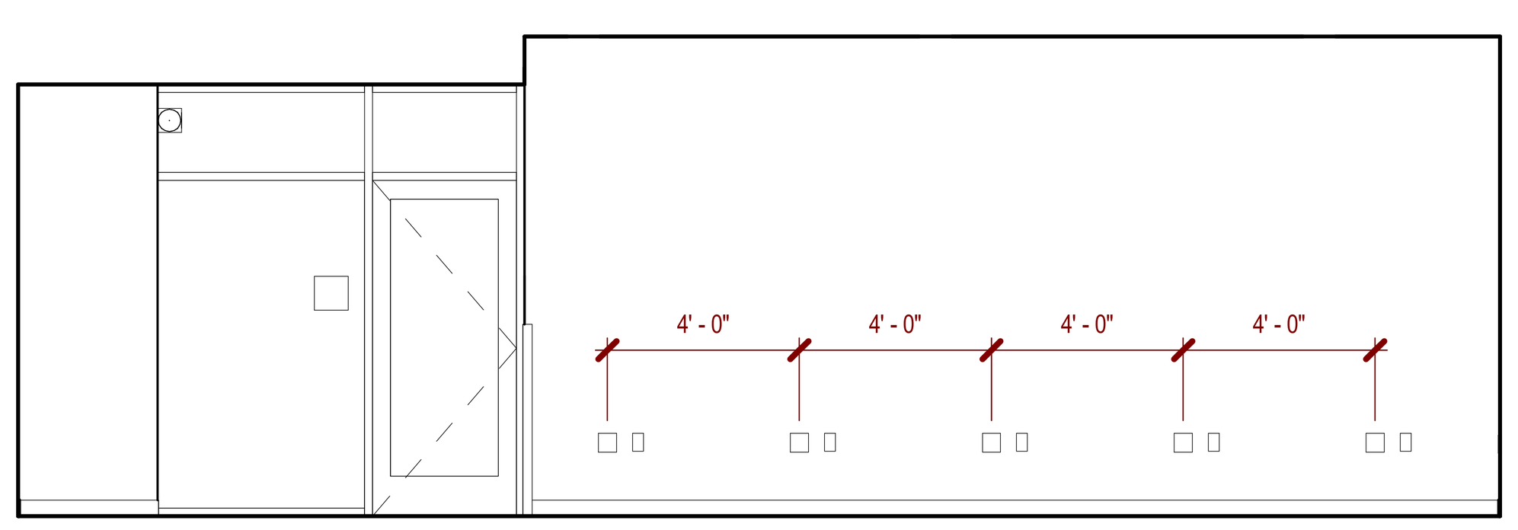
161O OFFICE NORTH F6
1/4" = 1'-0"



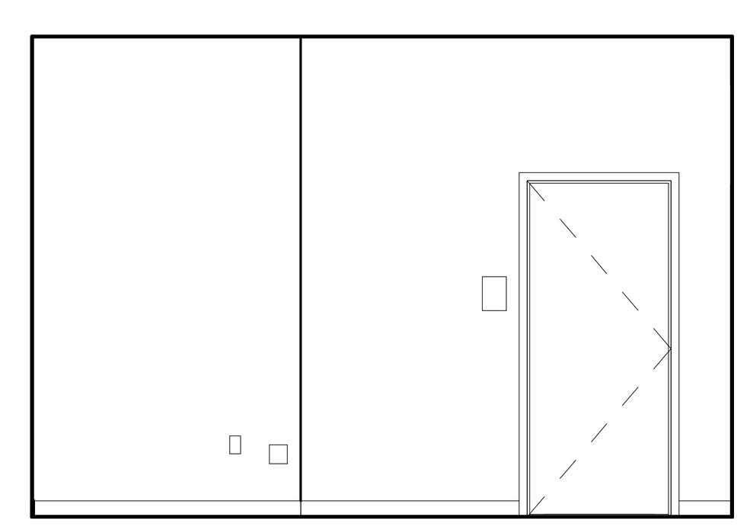
161P OFFICE WEST (261J SIM) F3
1/4" = 1'-0"



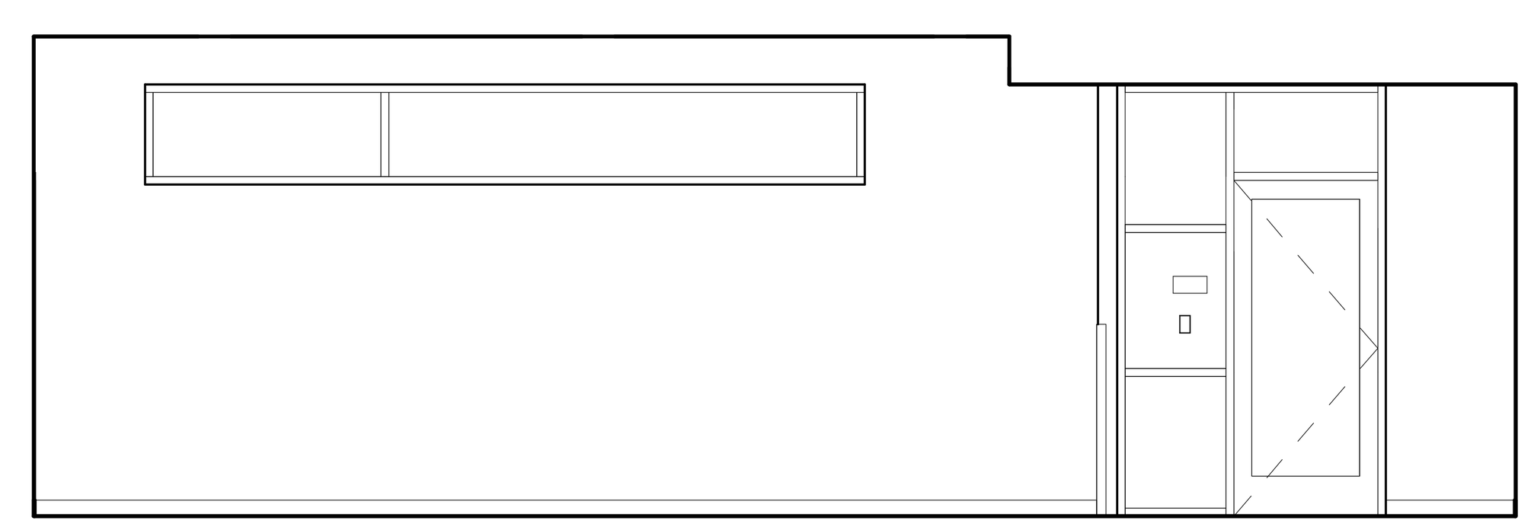
162 ASSESSMENT - NORTH H11
1/4" = 1'-0"



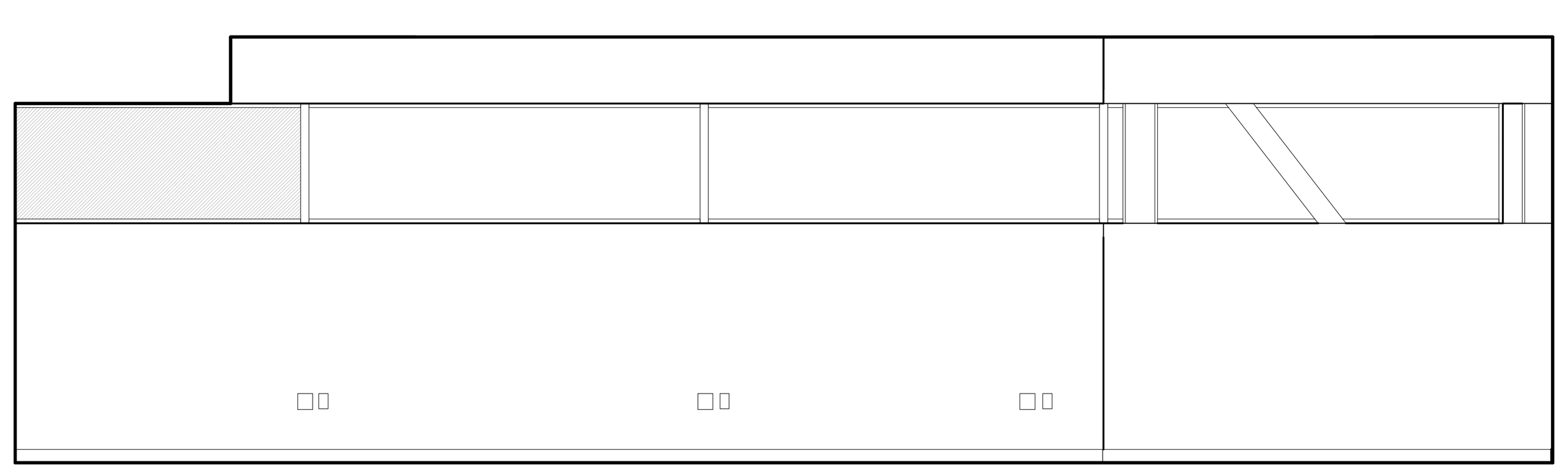
162 ASSESSMENT - EAST H8
1/4" = 1'-0"



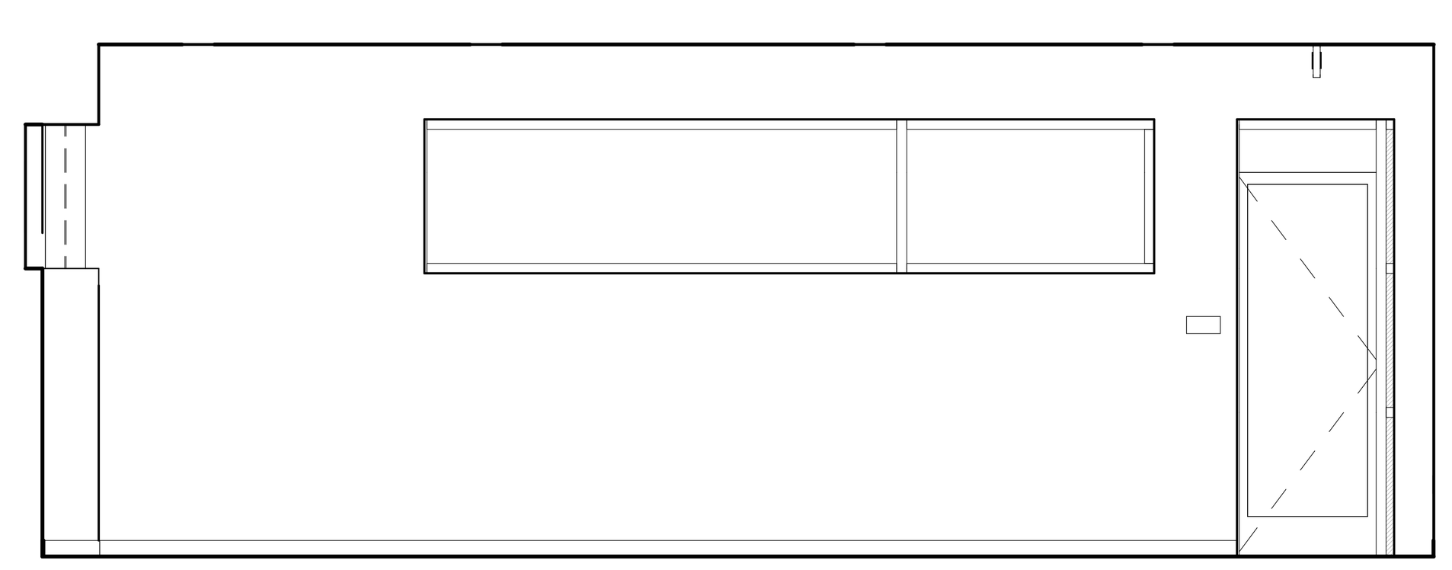
162 ASSESSMENT - SOUTH H6
1/4" = 1'-0"



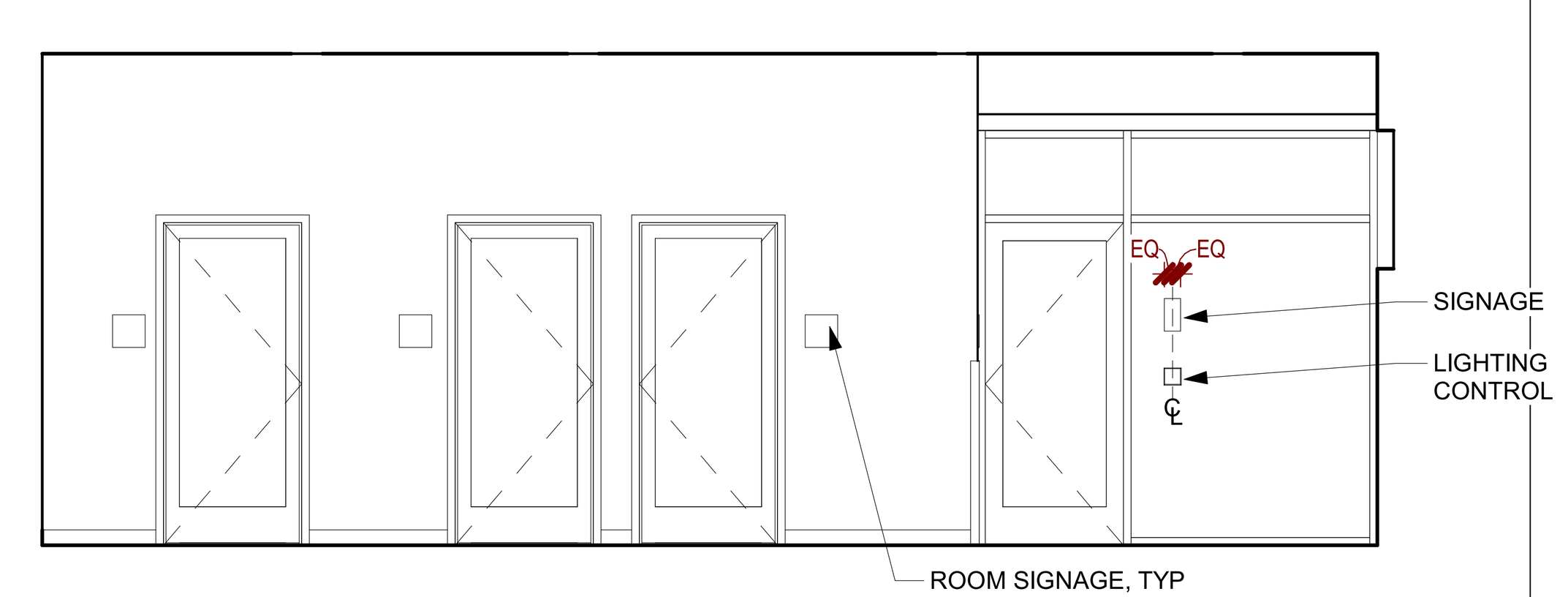
162 ASSESSMENT - WEST H3
1/4" = 1'-0"



162A ASSESSMENT - NORTH K9
1/4" = 1'-0"



162A ASSESSMENT - EAST K6
1/4" = 1'-0"



162A ASSESSMENT - WEST K3
1/4" = 1'-0"

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3. REFER TO SHEET A9.80 FOR CABINET TYPES
4. ALL EXPOSED BRACE FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR U.O.N
5. ALL PROJECTION SCREENS AND PROJECTORS LOCATIONS TO BE VERIFIED IN FIELD PRIOR TO INSTALLATION.
6. THERE SHALL BE NO EXPOSED JUNCTION BOXES OR SURFACE MOUNTED CONDUIT. (1)

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2484 Natomas Park Drive Suite 100 Sacramento CA 95833
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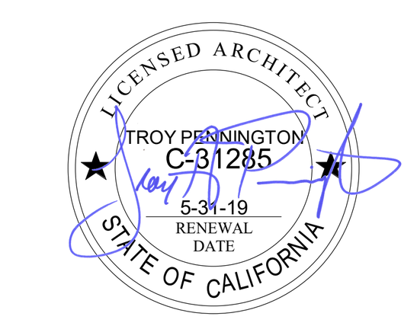
COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30



IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC ______ FLS ______ SS ______
DATE ______

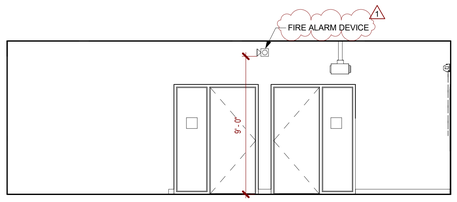
ARCHITECT'S STAMP APPROVAL

CONSULTANT

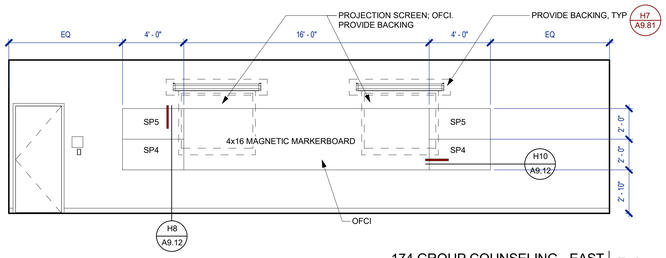
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A5.05

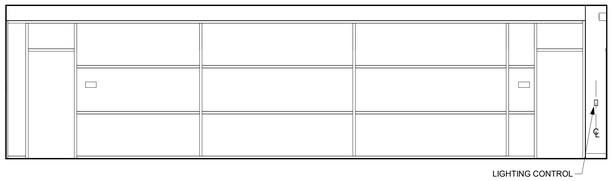


174 GROUP COUNSELING - NORTH | B10
1/4" = 1'-0"

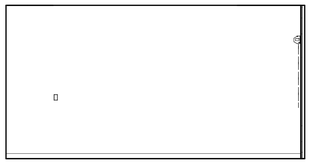


174 GROUP COUNSELING - EAST | B6
1/4" = 1'-0"

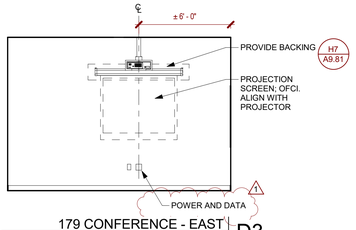
174 GROUP COUNSELING - SOUTH | B3
1/4" = 1'-0"



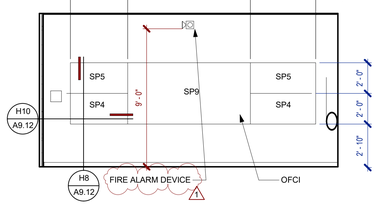
174 GROUP COUNSELING - WEST | D8
1/4" = 1'-0"



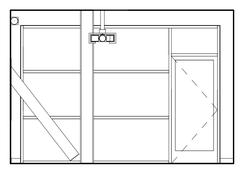
179 CONFERENCE - NORTH | D5
1/4" = 1'-0"



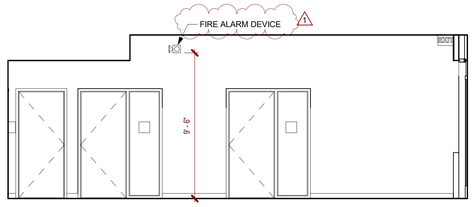
179 CONFERENCE - EAST | D3
1/4" = 1'-0"



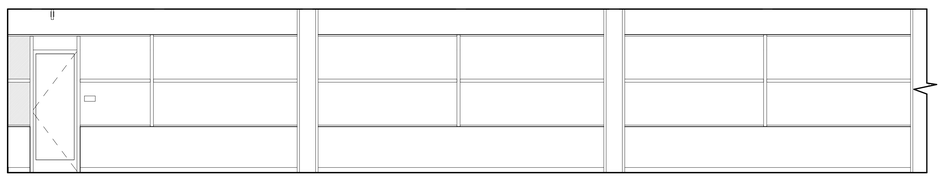
179 CONFERENCE SOUTH | F10
1/4" = 1'-0"



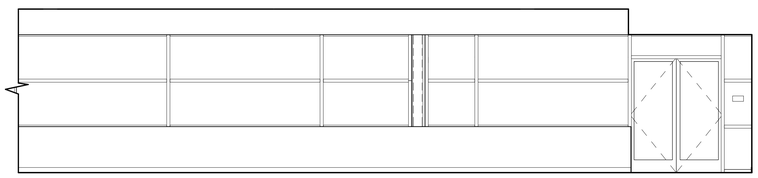
179 CONFERENCE ROOM - WEST | F8
1/4" = 1'-0"



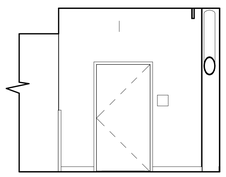
182 OPEN OFFICE - NORTH | F3
1/4" = 1'-0"



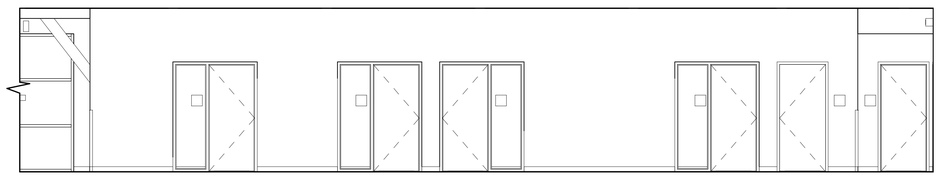
182 OPEN OFFICE - EAST | H7
1/4" = 1'-0"



182 OPEN OFFICE - SOUTHEAST | H3
1/4" = 1'-0"



182 OPEN OFFICE - SOUTH | K11
1/4" = 1'-0"



182 OPEN OFFICE - WEST | K3
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31288
12-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

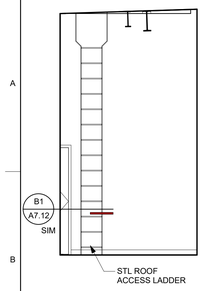
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

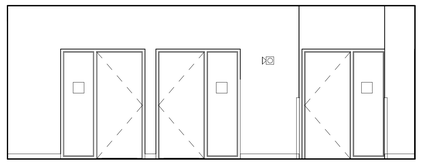
SHEET NO:

A5.06

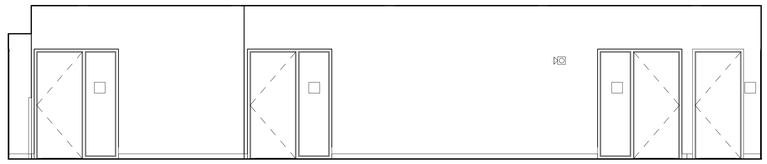
DSA SUBMITTAL II



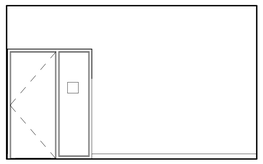
206 JANITOR - NORTH 1/4" = 1'-0" | B11



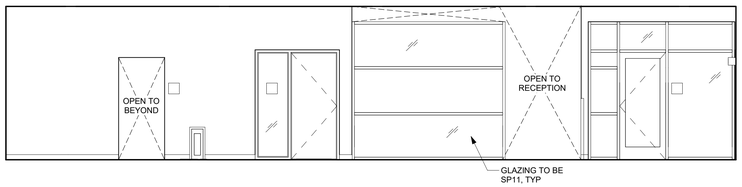
236 PRESIDENT'S SUITE - NORTH 1/4" = 1'-0" | B9



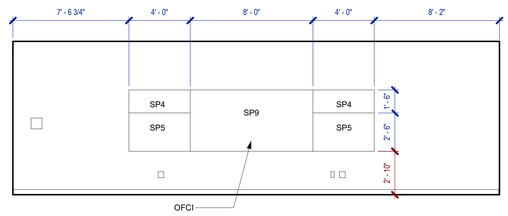
236 PRESIDENT'S SUITE - EAST 1/4" = 1'-0" | B6



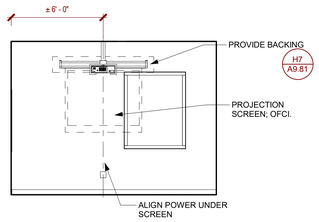
236 WORKSTATIONS/STAFF - SOUTH 1/4" = 1'-0" | B3



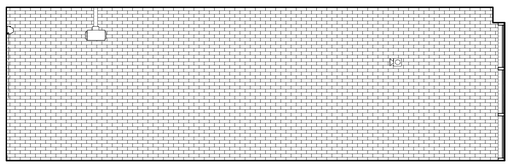
236 PRESIDENT'S SUITE - WEST 1/4" = 1'-0" | D8



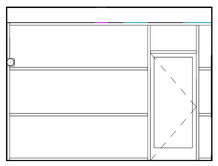
250 CONFERENCE ROOM NORTH 1/4" = 1'-0" | D5



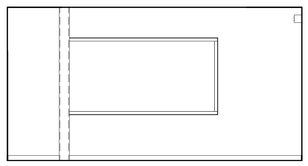
250 CONFERENCE ROOM - EAST 1/4" = 1'-0" | D3



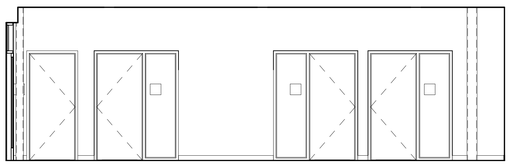
250 CONFERENCE ROOM - SOUTH 1/4" = 1'-0" | F10



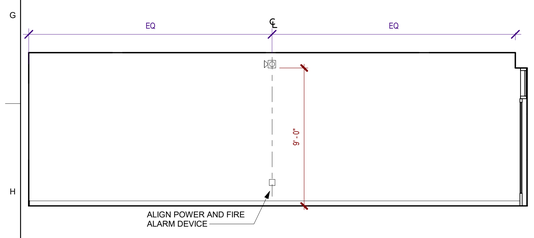
250 CONFERENCE ROOM - WEST 1/4" = 1'-0" | F8



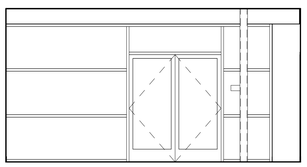
252 OPEN OFFICE - EAST 1/4" = 1'-0" | F5



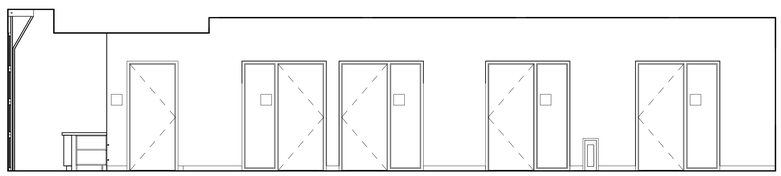
252 OPEN OFFICE - NORTH 1/4" = 1'-0" | F3



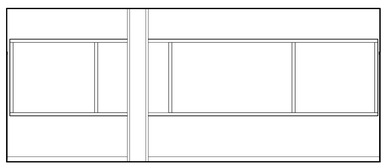
252 OPEN OFFICE - SOUTH 1/4" = 1'-0" | H10



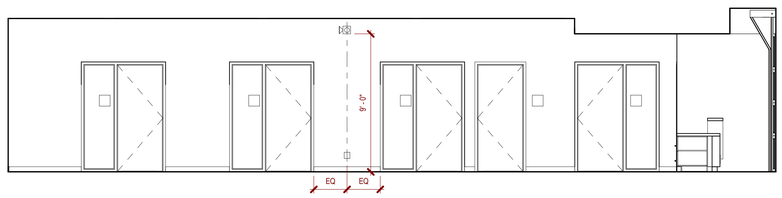
252 OPEN OFFICE - WEST 1/4" = 1'-0" | H8



254 OPEN OFFICE - NORTH 1/4" = 1'-0" | H3



254 OPEN OFFICE - EAST 1/4" = 1'-0" | K10



254 OPEN OFFICE - SOUTH 1/4" = 1'-0" | K6

INTERIOR ELEVATIONS GENERAL NOTES

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COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

REGISTERED ARCHITECT
TROY FANNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
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DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

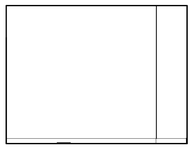
INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

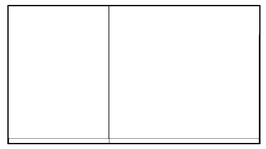
SHEET NO:

A5.07

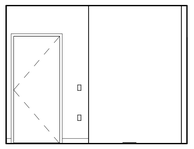
DSA SUBMITTAL II



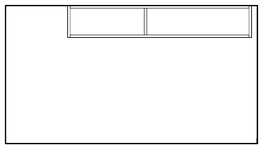
254A LENDING LIBRARY - NORTH | B11
1/4" = 1'-0"



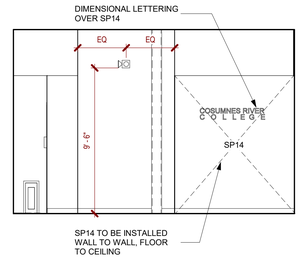
254A LENDING LIBRARY - EAST | B9
1/4" = 1'-0"



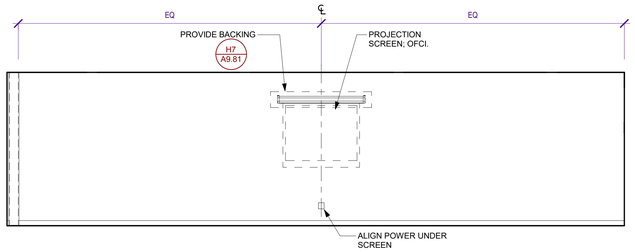
254A LENDING LIBRARY - SOUTH | B7
1/4" = 1'-0"



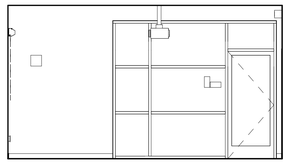
254A LENDING LIBRARY - WEST | B5
1/4" = 1'-0"



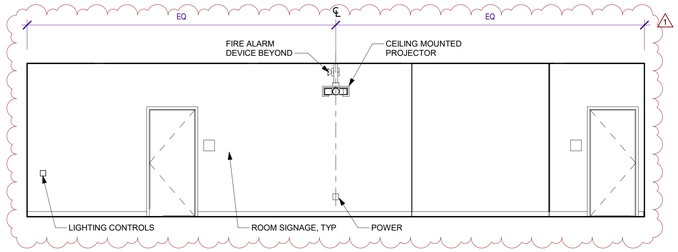
257 LOUNGE NORTH | B3
1/4" = 1'-0"



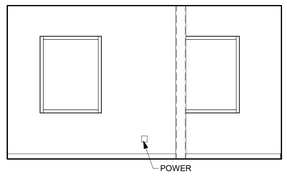
259 CONFERENCE - NORTH | D9
1/4" = 1'-0"



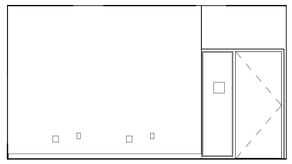
259 CONFERENCE - EAST | D7
1/4" = 1'-0"



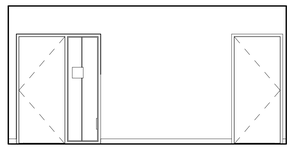
259 CONFERENCE - SOUTH | D3
1/4" = 1'-0"



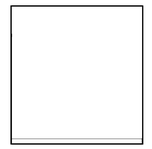
259 CONFERENCE - WEST | F11
1/4" = 1'-0"



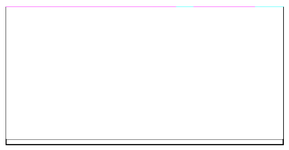
260C PRESIDENT'S OFFICE - SOUTH | F9
1/4" = 1'-0"



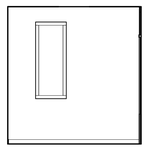
261C MANAGER'S OFFICE - NORTH | F5
1/4" = 1'-0"



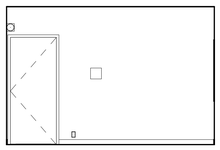
261C MANAGER'S OFFICE EAST | F3
1/4" = 1'-0"



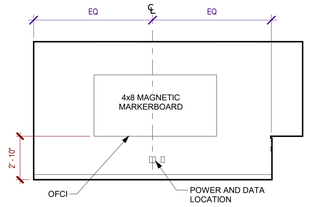
261C MANAGER'S OFFICE SOUTH | H11
1/4" = 1'-0"



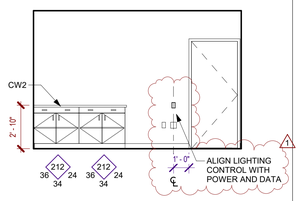
261C MANAGER'S OFFICE - WEST | H9
1/4" = 1'-0"



261E CONF/WORKROOM - NORTH | H7
1/4" = 1'-0"

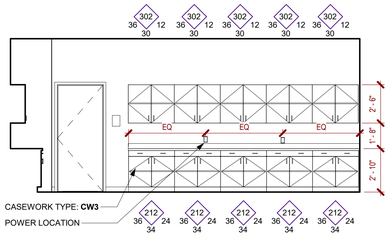


261E CONF/WORKROOM - EAST | H5
1/4" = 1'-0"

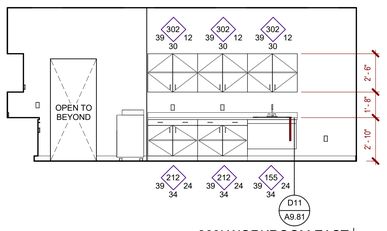


261E CONF/WORKROOM - SOUTH | H3
1/4" = 1'-0"

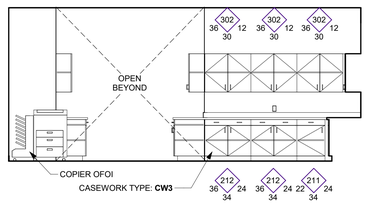
261E CONF/WORKROOM - WEST | K11
1/4" = 1'-0"



260I WORKROOM NORTH | K8
1/4" = 1'-0"



260I WORKROOM EAST | K5
1/4" = 1'-0"



260I WORKROOM SOUTH | K3
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET A2.30 FOR INTERIOR FINISHES AND LEGEND.
2. UNLESS OTHERWISE NOTED, PAINT INTERIOR WALLS P1, REFER TO FINISH PLAN SHEETS A2.31 & A2.32 FOR ADDITIONAL INFORMATION
3. REFER TO SHEET A9.80 FOR CABINET TYPES
4. ALL EXPOSED BRACE FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR U.O.N
5. ALL PROJECTION SCREENS AND PROJECTORS LOCATIONS TO BE VERIFIED IN FIELD PRIOR TO INSTALLATION.
6. THERE SHALL BE NO EXPOSED JUNCTION BOXES OR SURFACE MOUNTED CONDUIT. 1

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

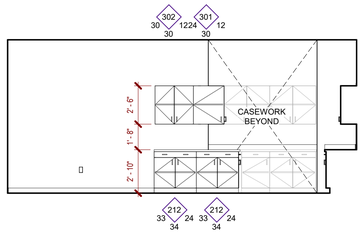
CONSULTANT

INTERIOR ELEVATIONS

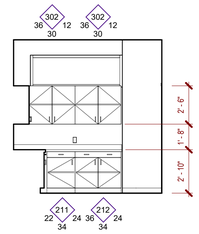
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A5.08 1

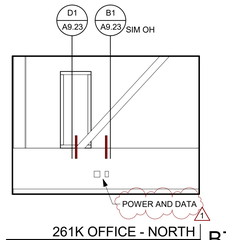
DSA SUBMITTAL II



260I WORKROOM WEST | 2
1/4" = 1'-0"



260I WORKROOM WEST CONT | 1
1/4" = 1'-0"



261K OFFICE - NORTH | B7
1/4" = 1'-0"

INTERIOR ELEVATIONS GENERAL NOTES

1. SEE SHEET A2.30 FOR INTERIOR FINISHES AND LEGEND.
2. UNLESS OTHERWISE NOTED, PAINT INTERIOR WALLS P1, REFER TO FINISH PLAN SHEETS A2.31 & A2.32 FOR ADDITIONAL INFORMATION
3. REFER TO SHEET A9.80 FOR CABINET TYPES
4. ALL EXPOSED BRACE FRAMES TO BE PAINTED TO MATCH ADJACENT WALL COLOR U.O.N
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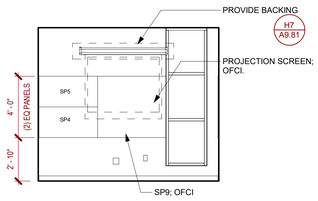
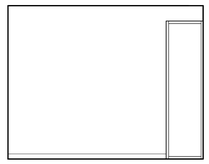
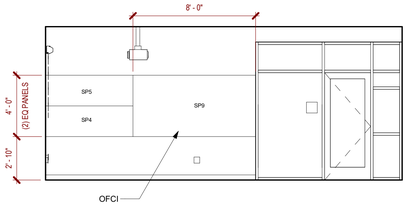
6. THERE SHALL BE NO EXPOSED JUNCTION BOXES OR SURFACE MOUNTED CONDUIT. 1



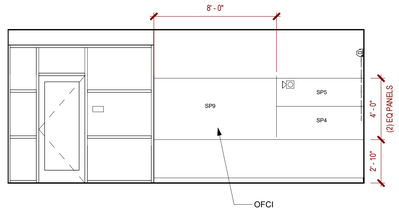
262 LARGE CONFERENCE ROOM - NORTH | D11
1/4" = 1'-0"



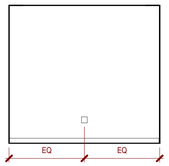
262 LARGE CONF. RM - SOUTH | D9
1/4" = 1'-0"



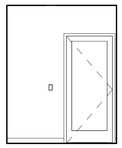
262 LARGE CONFERENCE ROOM - EAST | D6
1/4" = 1'-0"



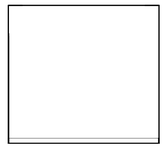
262 LARGE CONFERENCE ROOM - WEST | D3
1/4" = 1'-0"



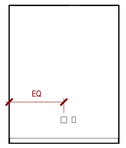
TYP. EXAM ROOM - NORTH | F9
1/4" = 1'-0"



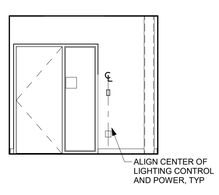
TYP. EXAM ROOM - EAST | F7
1/4" = 1'-0"



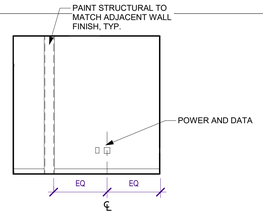
TYP. EXAM ROOM - SOUTH | F5
1/4" = 1'-0"



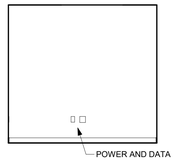
TYP. EXAM ROOM - WEST | F3
1/4" = 1'-0"



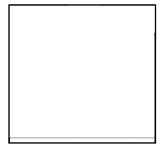
TYP. OFFICE - NORTH | H9
1/4" = 1'-0"



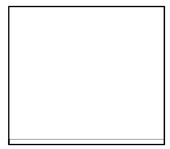
TYP. OFFICE - EAST | H7
1/4" = 1'-0"



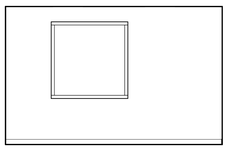
TYP. OFFICE - SOUTH | H5
1/4" = 1'-0"



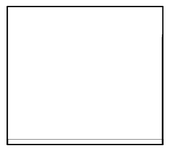
TYP. OFFICE - WEST | H3
1/4" = 1'-0"



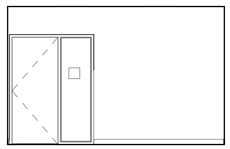
TYP. VP OFFICE - NORTH | J9
1/4" = 1'-0"



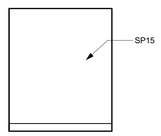
TYP. VP OFFICE - EAST | J7
1/4" = 1'-0"



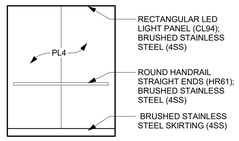
TYP. VP OFFICE - SOUTH | J5
1/4" = 1'-0"



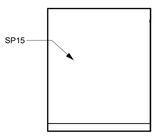
TYP. VP OFFICE - WEST | J3
1/4" = 1'-0"



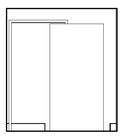
578 ELEVATOR NORTH | K9
1/4" = 1'-0"



578 ELEVATOR EAST | K7
1/4" = 1'-0"



578 ELEVATOR SOUTH | K5
1/4" = 1'-0"



578 ELEVATOR WEST | K3
1/4" = 1'-0"

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
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DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

INTERIOR ELEVATIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A5.09 1

DSA SUBMITTAL II

PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - BASE BID | K3

1/8" = 1'-0"

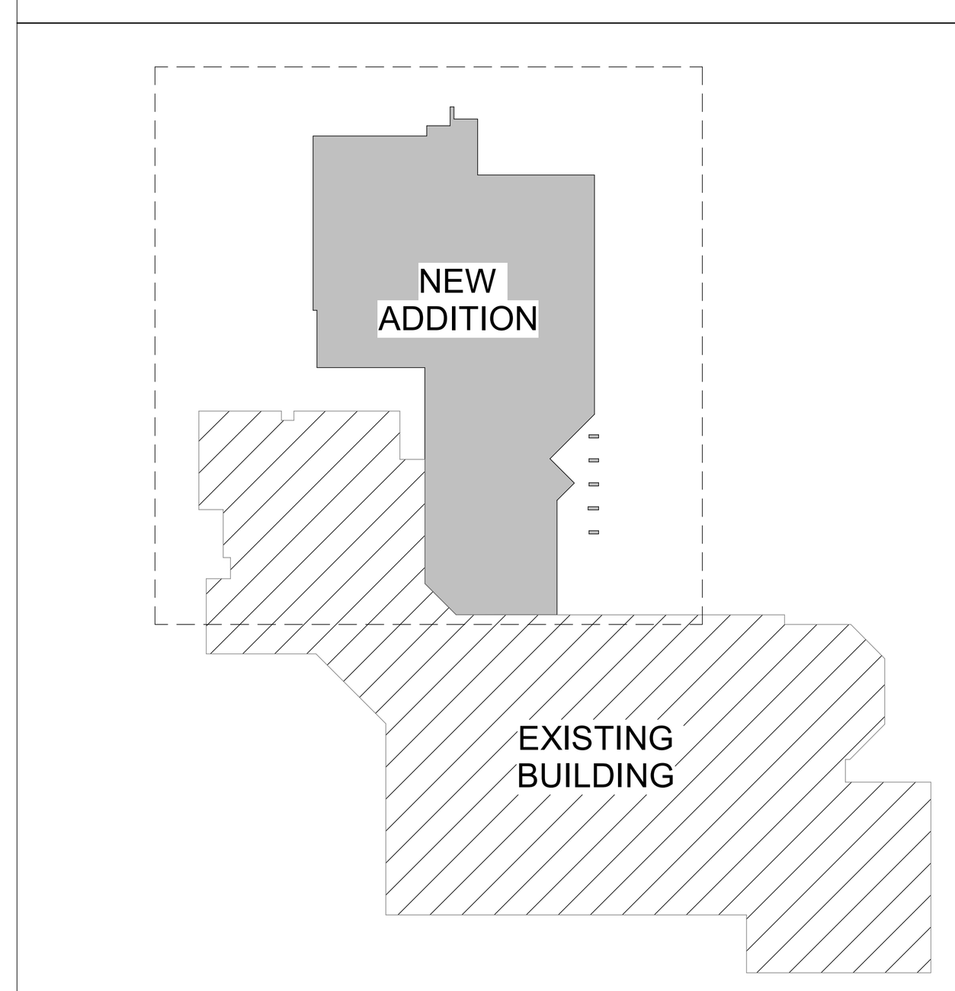
REFLECTED CEILING PLAN GENERAL NOTES

1. THE AREA OF WORK SHOWN IS APPROXIMATE. WORK OUTSIDE THE AREA OF WORK MAY BE REQUIRED FOR A COMPLETE PROJECT. ANY WORK REQUIRED OUTSIDE THE AREA OF WORK TO COMPLETE THIS PROJECT SHALL BE CONSIDERED A PART OF THIS CONTRACT.
2. SEE STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
3. UNLESS OTHERWISE NOTED, CEILING HEIGHT SHALL BE 9'-0" AFF.
4. UNLESS OTHERWISE NOTED, SUSPENDED ACOUSTICAL CEILINGS SHALL BE ARMSTRONG TECH ZONE CEILING SYSTEMS WITH INTEGRATED 4" TECHNICAL ZONES CONTAINING RECESSED LINEAR LIGHTING SYSTEM, MECHANICAL DIFFUSERS AND FIRE SPRINKLER HEADS. LAY-IN PANELS SHALL BE ULTIMA SQUARE TEGULAR IN 9/16" SUPRAFINE XL SUSPENSION SYSTEM.
5. UNLESS OTHERWISE NOTED, PAINT GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, ETC. P1.
6. PAINT ALL EXPOSED PIPING, CONDUITS, STRUCTURAL MEMBERS, ETC. EXCEPT IN MECHANICAL, ELECTRICAL ROOMS.
7. UNLESS OTHERWISE NOTED, ALL SCOPE INDICATED SHALL BE CONSIDERED PART OF BASE BID.
8. ALL WIRELESS ACCESS POINTS (WAPS) SHALL BE HIDDEN ABOVE THE CEILING GRID. LOCATIONS TO BE CLEARLY LABELED USING CLEAR LABELS ON METAL GRID LINES; CONFIRM LABELS WITH DISTRICT PRIOR TO INSTALL OF WAPS AND LABELS.

REFLECTED CEILING PLAN LEGEND

- SUSPENDED ACOUSTICAL CEILING
- 5/8" GYPSUM BOARD CEILING / SOFFIT
- ALUMINUM COMPOSITE PANEL SYSTEM MP-1 PER EXTERIOR FINISH LEGEND
- ALUMINUM COMPOSITE PANEL SYSTEM MP-4 PER EXTERIOR FINISH LEGEND
- OPEN TO STRUCTURE
- HVAC SUPPLY
- HVAC RETURN
- EXHAUST VENT
- SURFACE MOUNTED LINEAR LUMINAIRE
- RECESSED 2x4 LUMINAIRE
- RECESSED 2x2 LUMINAIRE
- RECESSED LINEAR LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED SPRINKLER HEAD
- ACCESS HATCH. 24" X 36" MIN

NOTE:
SEE EXTERIOR ELEVATION FOR ADDITIONAL FINISH INFORMATION



KEY PLAN

1" = 80'-0"

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ARCHITECT'S STAMP APPROVAL

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PARTIAL FIRST FLOOR REFLECTED CEILING PLAN

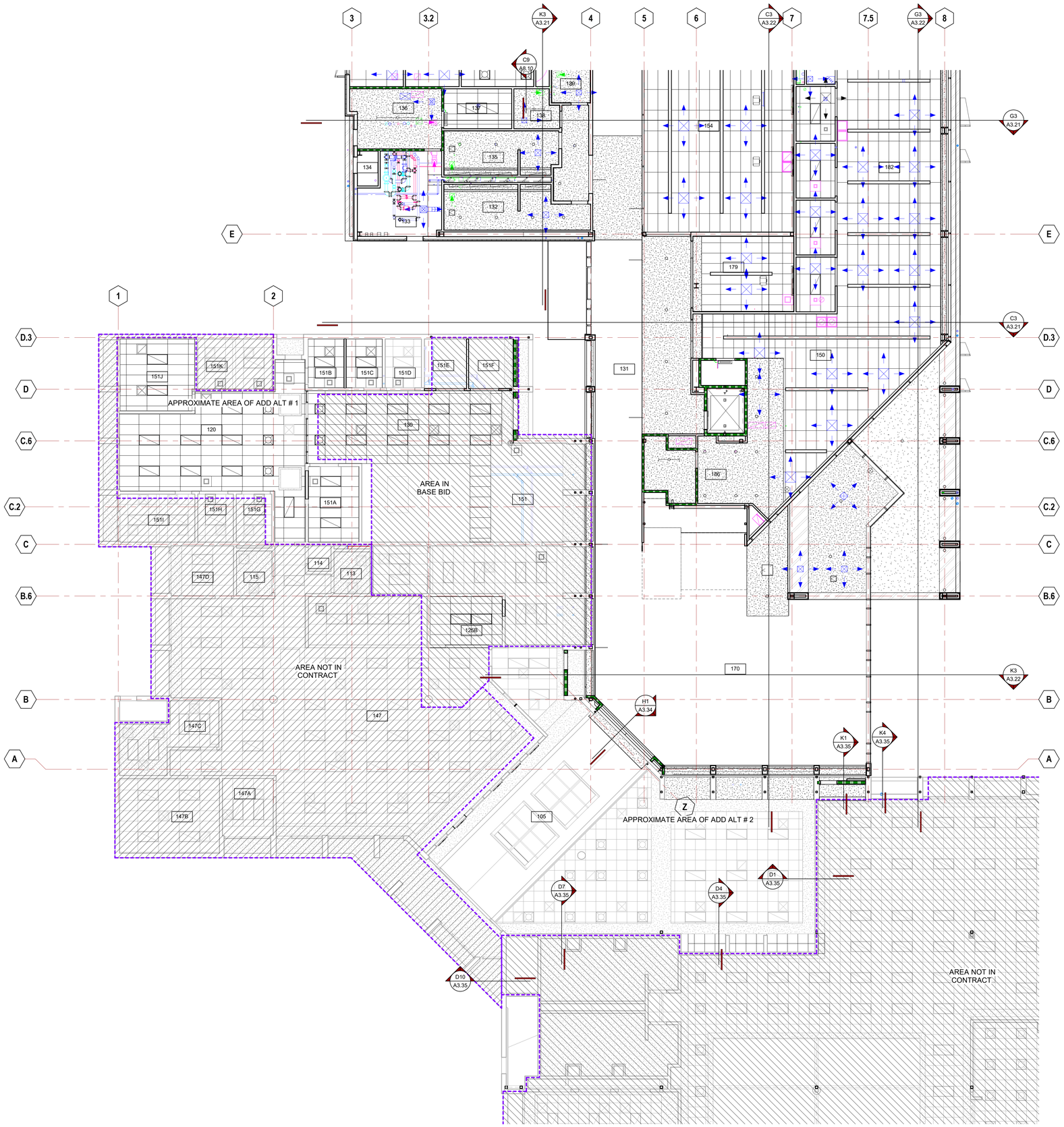
PROJECT NO: 201-0065

DATE: 01.15.2018

SHEET NO:

A6.01A

DSA SUBMITTAL II



PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - ADD ALT #1 | K3
1/8" = 1'-0"

REFLECTED CEILING PLAN GENERAL NOTES

1. THE AREA OF WORK SHOWN IS APPROXIMATE. WORK OUTSIDE THE AREA OF WORK MAY BE REQUIRED FOR A COMPLETE PROJECT. ANY WORK REQUIRED OUTSIDE THE AREA OF WORK TO COMPLETE THIS PROJECT SHALL BE CONSIDERED A PART OF THIS CONTRACT.
2. SEE STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING, FIRE ALARM, FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.
3. UNLESS OTHERWISE NOTED, CEILING HEIGHT SHALL BE 9'-0" AFF.
4. UNLESS OTHERWISE NOTED, SUSPENDED ACOUSTICAL CEILINGS SHALL BE ARMSTRONG TECH ZONE CEILING SYSTEMS WITH INTEGRATED 4" TECHNICAL ZONES CONTAINING RECESSED LINEAR LIGHTING SYSTEM, MECHANICAL DIFFUSERS AND FIRE SPRINKLER HEADS. LAY-IN PANELS SHALL BE ULTIMA SQUARE TEGULAR IN 9/16" SUPRAFINE XL SUSPENSION SYSTEM.
5. UNLESS OTHERWISE NOTED, PAINT GYPSUM BOARD CEILINGS, SOFFITS, BULKHEADS, ETC. P1.
6. PAINT ALL EXPOSED PIPING, CONDUITS, STRUCTURAL MEMBERS, ETC. EXCEPT IN MECHANICAL, ELECTRICAL ROOMS.
7. UNLESS OTHERWISE NOTED, ALL SCOPE INDICATED SHALL BE CONSIDERED PART OF BASE BID.
8. ALL WIRELESS ACCESS POINTS (WAPS) SHALL BE HIDDEN ABOVE THE CEILING GRID. LOCATIONS TO BE CLEARLY LABELED USING CLEAR LABELS ON METAL GRID LINES; CONFIRM LABELS WITH DISTRICT PRIOR TO INSTALL OF WAPS AND LABELS.

REFLECTED CEILING PLAN LEGEND

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- 5/8" GYPSUM BOARD CEILING / SOFFIT
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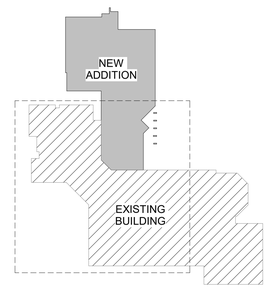
- ALUMINUM COMPOSITE PANEL SYSTEM MP-4 PER EXTERIOR FINISH LEGEND
- OPEN TO STRUCTURE
- HVAC SUPPLY
- HVAC RETURN
- EXHAUST VENT
- SURFACE MOUNTED LINEAR LUMINAIRE
- RECESSED 2x4 LUMINAIRE
- RECESSED 2x2 LUMINAIRE
- RECESSED LINEAR LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED SPRINKLER HEAD
- ACCESS HATCH. 24" X 36" MIN

NOTE:
SEE EXTERIOR ELEVATION FOR ADDITIONAL FINISH INFORMATION



KEY PLAN
1" = 80'-0"

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C-31795
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STATE OF CALIFORNIA

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DATE _____

ARCHITECT'S STAMP APPROVAL

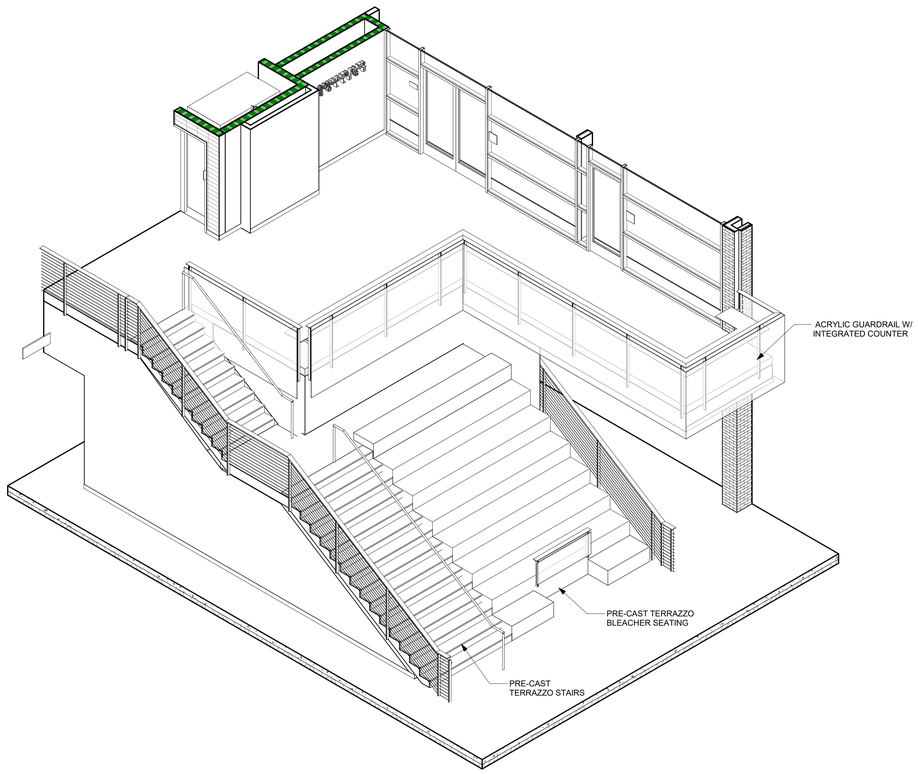
CONSULTANT

PARTIAL FIRST FLOOR REFLECTED CLG PLAN - ADD ALT

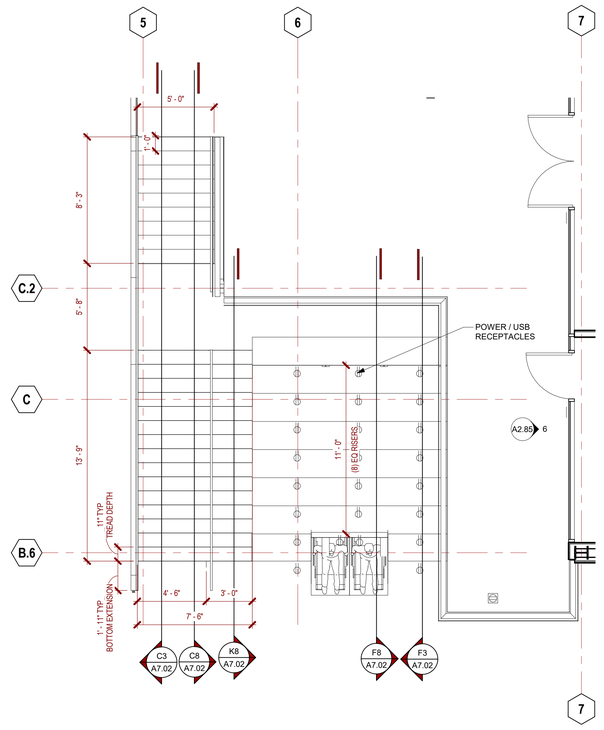
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A6.01B

DSA SUBMITTAL II



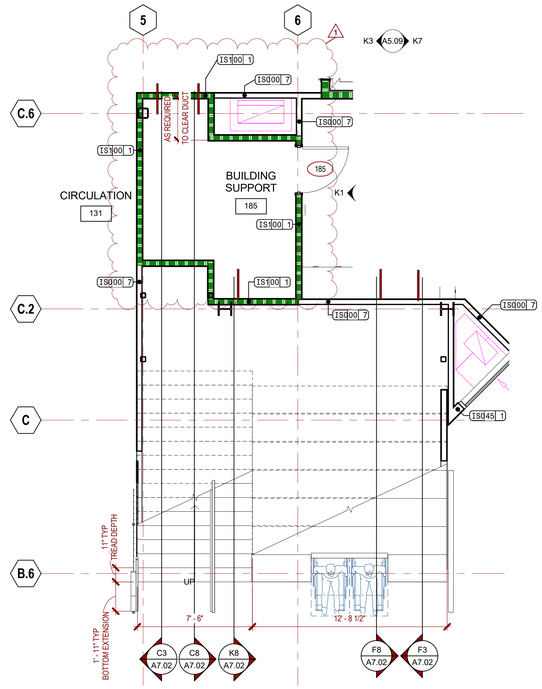
STAIR 1 ISOMETRIC VIEW | E7



ENLARGED PLAN AT STAIR 1 - SECOND FLOOR | C3
1/4" = 1'-0"

STAIRS GENERAL NOTES

1. SEE SHEET A7.11 FOR STAIR DETAILS.
2. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL STAIR CONSTRUCTION DETAILS.
3. ALL INTERIOR STAIR TREADS SHALL BE PRE-CAST TERRAZZO STAIR TREAD TYPE S-31 TREAD & RISER, AS MANUFACTURED BY WAUSAU TERRAZZO, OR APPROVED EQUAL. MATCH COLOR OF EPOXY TERRAZZO FLOORING IN LOBBY.
4. ALL ISOMETRIC VIEWS ARE INTENDED TO ILLUSTRATE GENERAL RELATIONSHIPS, AND ARE NOT INTENDED AS CONSTRUCTION DRAWINGS. REFER TO A7.11 FOR ALL STAIR AND RAILING CONSTRUCTION DETAILS.



ENLARGED PLAN AT STAIR 1 / SEATING | K3
1/4" = 1'-0"

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1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
RENEWAL DATE 8-31-19
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS____ SS____
DATE ____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

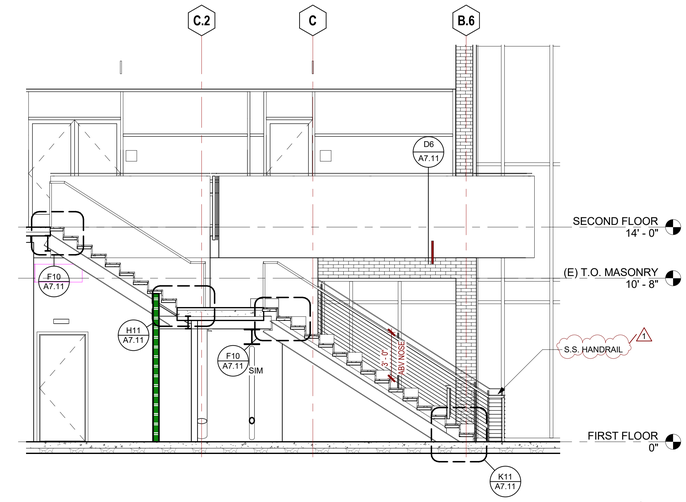
STAIR 1 PLANS & SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

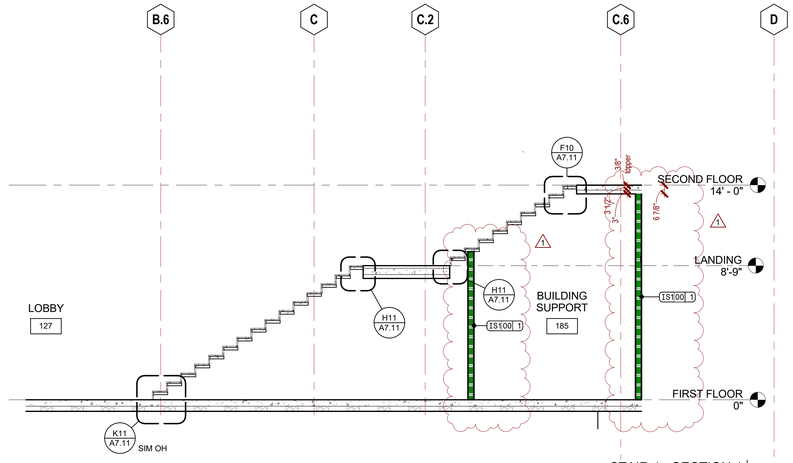
SHEET NO:

A7.01

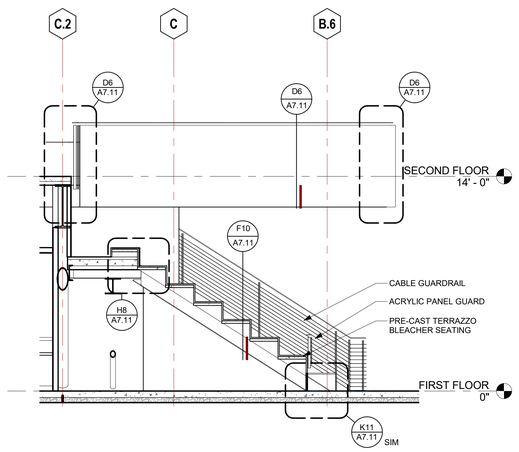
DSA SUBMITTAL II



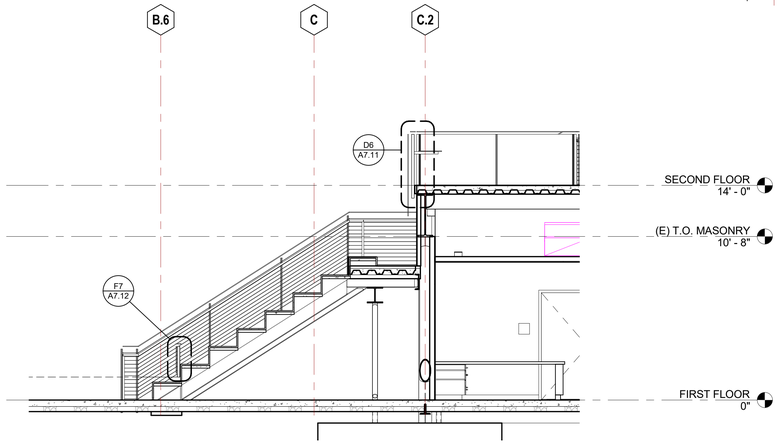
STAIR 1 - SECTION 2 | C8
1/4" = 1'-0"



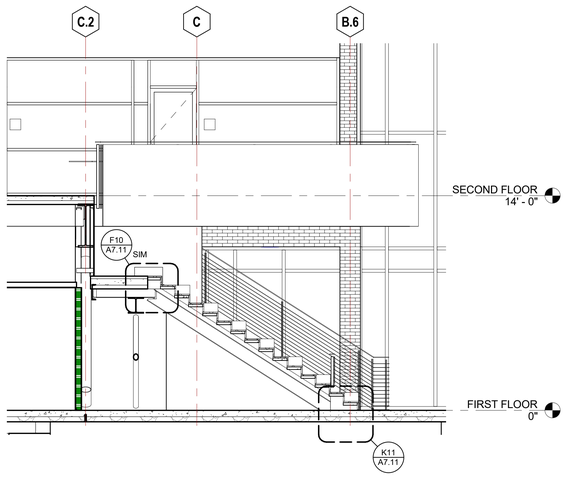
STAIR 1 - SECTION 1 | C3
1/4" = 1'-0"



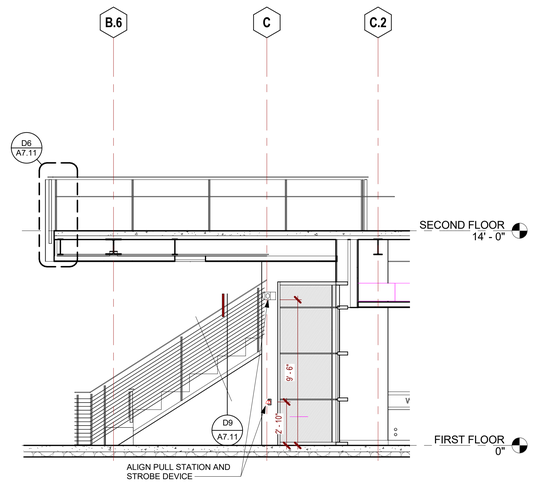
STAIR 1 - SECTION 3 | F8
1/4" = 1'-0"



STAIR 1 - SECTION 5 | F3
1/4" = 1'-0"



STAIR 1 - SECTION 4 | K8
1/4" = 1'-0"



Elevation 9 - a | K3
1/4" = 1'-0"

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LICENSED ARCHITECT
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C-31285
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

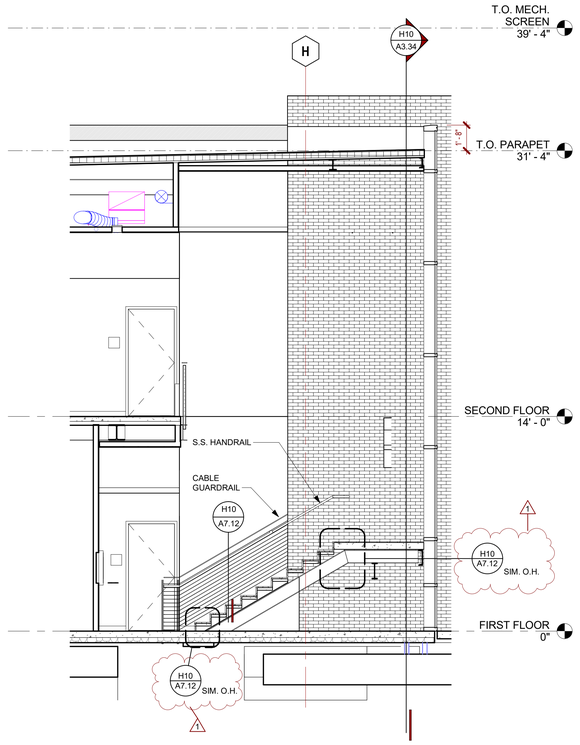
STAIR 1 SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

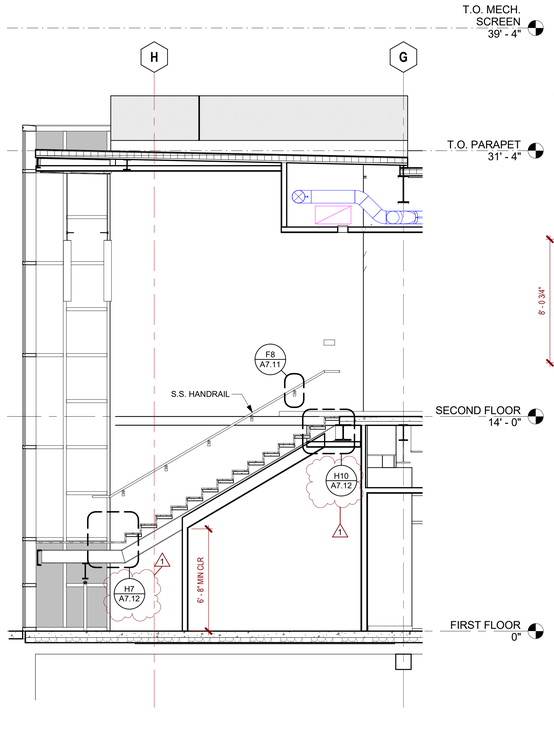
SHEET NO:

A7.02

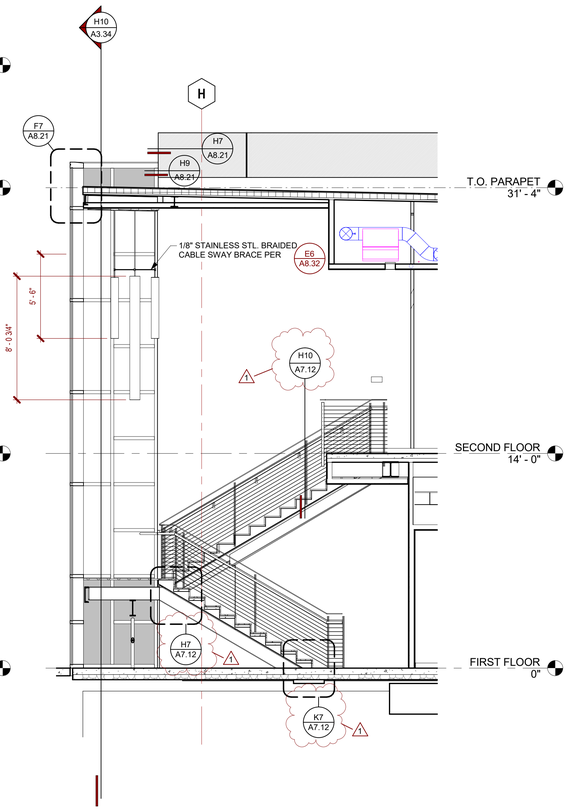
DSA SUBMITTAL II



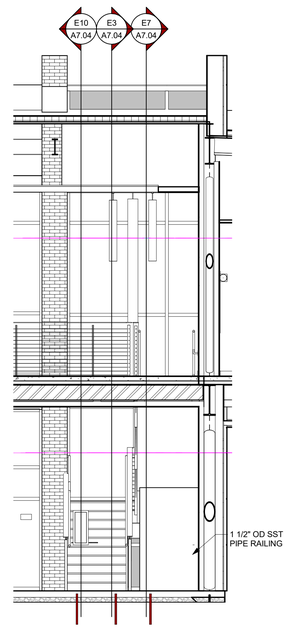
STAIR 2 - SECTION 3 | E10
1/4" = 1'-0"



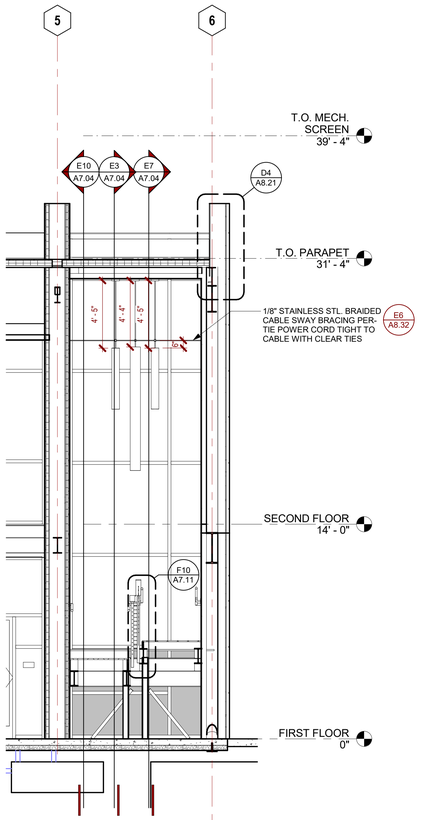
STAIR 2 - SECTION 2 | E7
1/4" = 1'-0"



STAIR 2 - SECTION 1 | E3
1/4" = 1'-0"



ELEVATION AT BOTTOM OF STAIR 2 | K6
1/4" = 1'-0"



STAIR 2 - SECTION 4 | K3
1/4" = 1'-0"

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

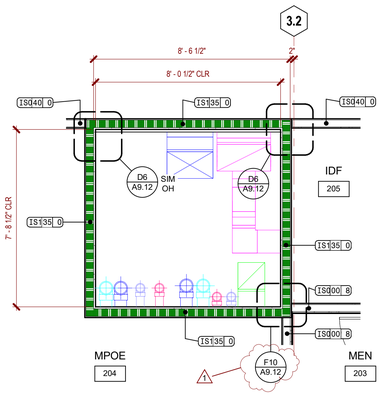
STAIR 2 SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

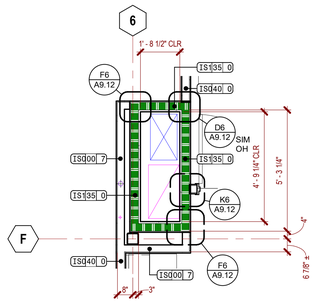
SHEET NO:

A7.04

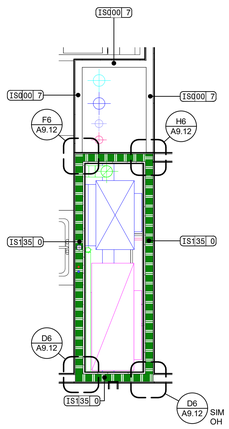
DSA SUBMITTAL II



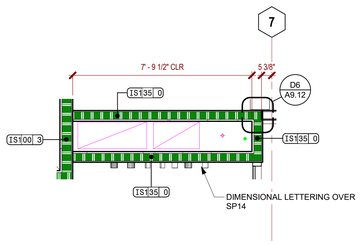
ENLARGED PLAN @ MECHANICAL SHAFT 1 | C10
3/8" = 1'-0"



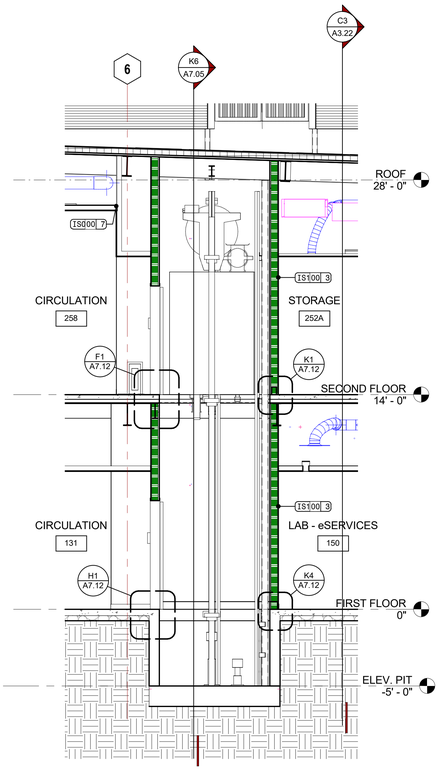
ENLARGED PLAN AT MECHANICAL SHAFT 2 | F10
3/8" = 1'-0"



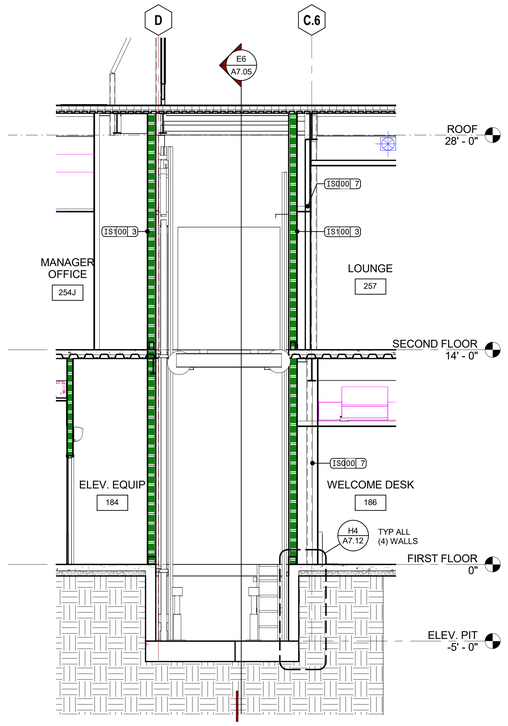
ENLARGED PLAN AT MECHANICAL SHAFT 3 | H10
3/8" = 1'-0"



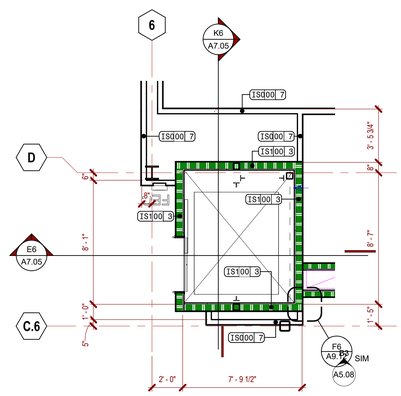
ENLARGED PLAN AT MECHANICAL SHAFT 4 | K10
3/8" = 1'-0"



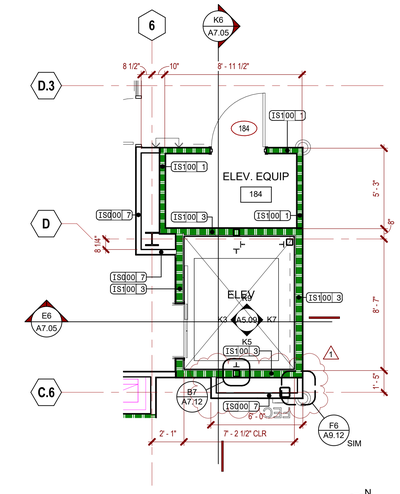
ELEVATOR SECTION 1 | E6
1/4" = 1'-0"



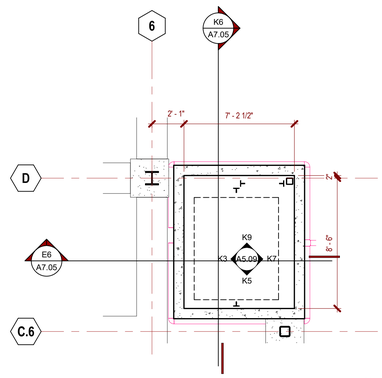
ELEVATOR SECTION 2 | K6
1/4" = 1'-0"



ENLARGED PLAN AT ELEVATOR - SECOND FLOOR | C3
1/4" = 1'-0"



ENLARGED PLAN AT ELEVATOR - FIRST FLOOR | F3
1/4" = 1'-0"



ENLARGED PLAN AT ELEVATOR PIT | K3
1/4" = 1'-0"

ELEVATOR GENERAL NOTES

1. ELEVATOR BASIS OF DESIGN IS: KONE ECOSPACE 3,500 LB.
2. SEE SHEET A0.40 FOR ELEVATOR CAB INTERIOR CLEARANCE REQUIREMENTS FOR GURNEYS AND ACCESS COMPLIANCE.

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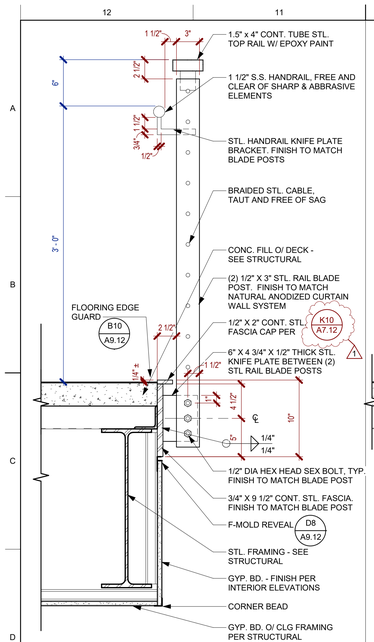
ELEVATOR PLANS & SECTIONS

PROJECT NO: 201-0065
DATE: 01.15.2018

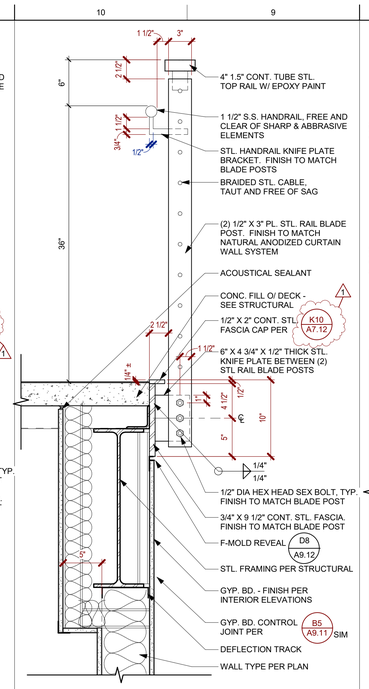
SHEET NO:

A7.05

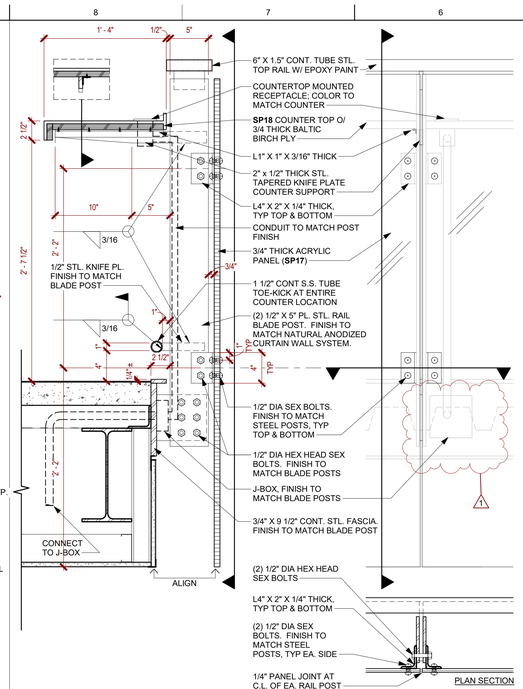
DSA SUBMITTAL II



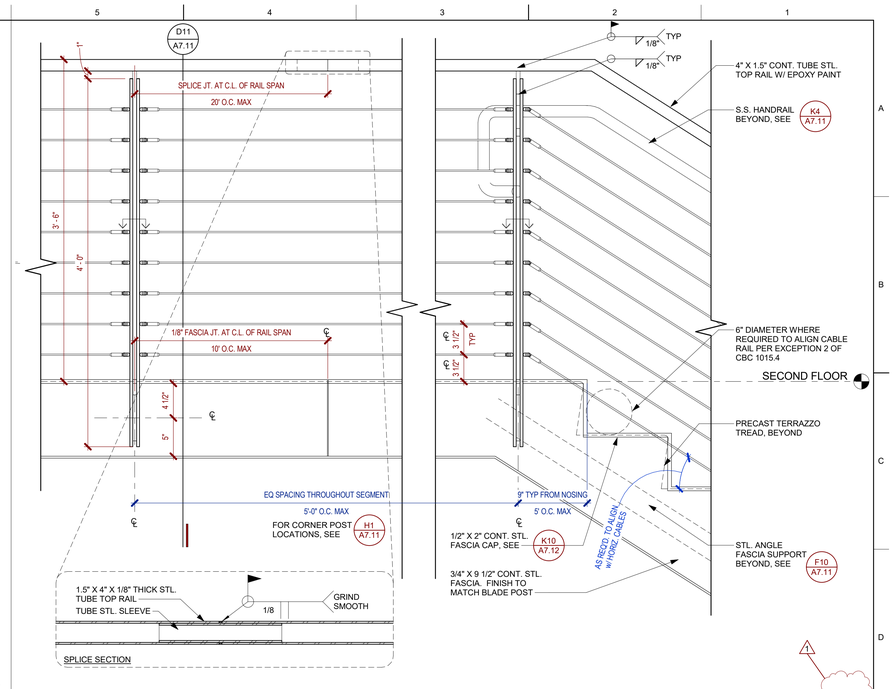
TYPICAL GUARDRAIL | D11
1 1/2" = 1'-0"



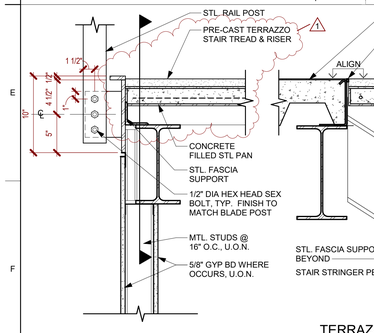
TYPICAL GUARDRAIL @ WALL | D9
1 1/2" = 1'-0"



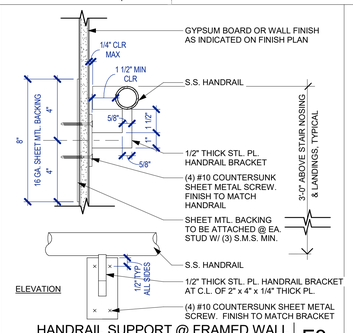
TYPICAL GUARDRAIL w/ VANITY PANEL | D6
1 1/2" = 1'-0"



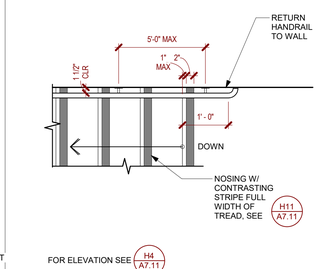
TYPICAL CABLE RAIL ELEVATION | D1
1 1/2" = 1'-0"



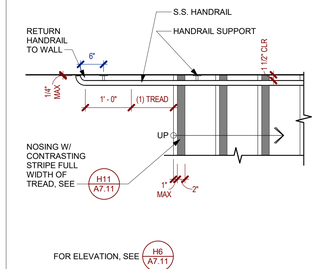
TERRAZZO STAIR TREAD | F10
1 1/2" = 1'-0"



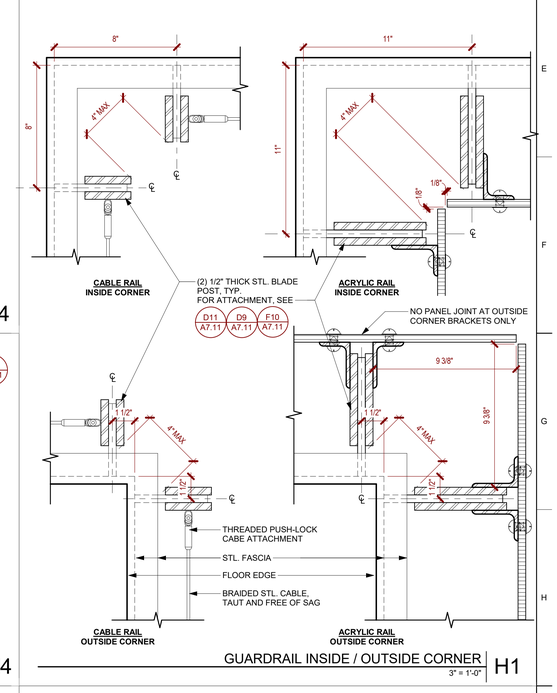
HANDRAIL SUPPORT @ FRAMED WALL | F8
3" = 1'-0"



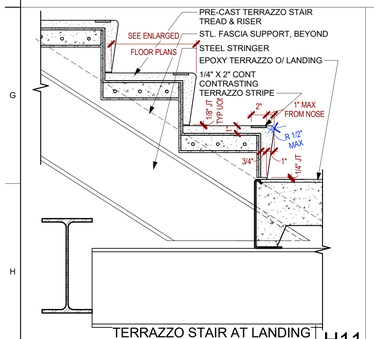
WALL-MOUNTED HANDRAIL EXTENSION PLAN, TOP OF STAIR FLIGHT | F6
3/4" = 1'-0"



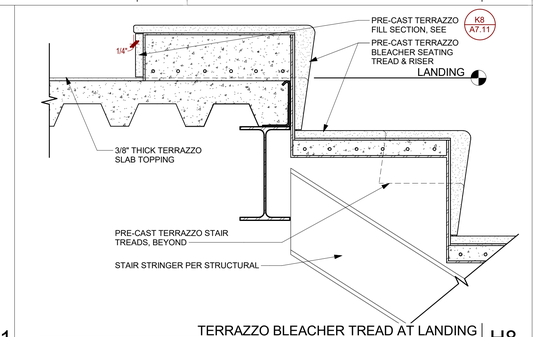
WALL-MOUNTED HANDRAIL EXTENSION PLAN BOTTOM OF STAIR FLIGHT | F4
3/4" = 1'-0"



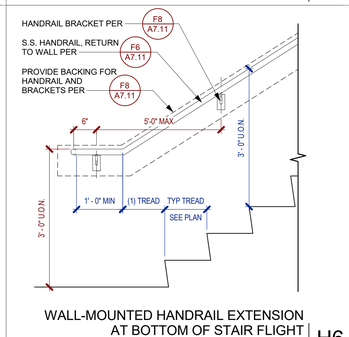
GUARDRAIL INSIDE / OUTSIDE CORNER | H1
3" = 1'-0"



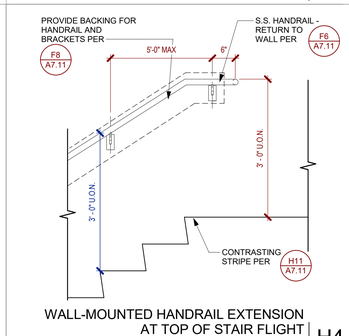
TERRAZZO STAIR AT LANDING | H11
1 1/2" = 1'-0"



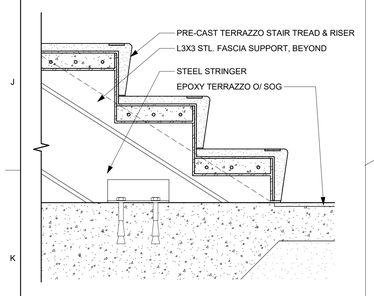
TERRAZZO BLEACHER TREAD AT LANDING | H8
1 1/2" = 1'-0"



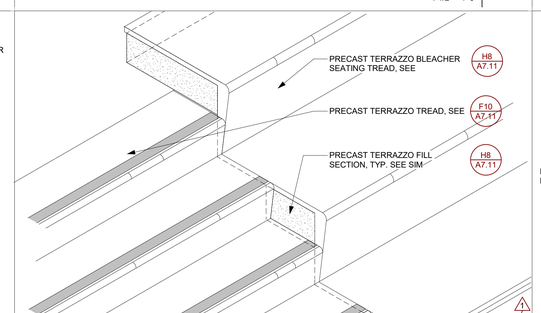
WALL-MOUNTED HANDRAIL EXTENSION AT BOTTOM OF STAIR FLIGHT | H6
3/4" = 1'-0"



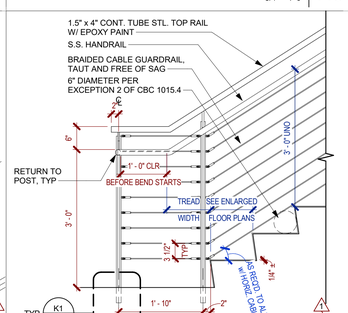
WALL-MOUNTED HANDRAIL EXTENSION AT TOP OF STAIR FLIGHT | H4
3/4" = 1'-0"



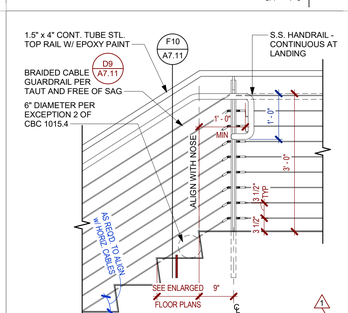
TERRAZZO STAIR AT GROUND FLOOR | K11
1 1/2" = 1'-0"



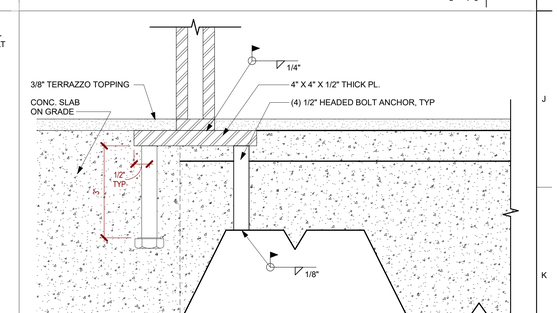
TREAD & BLEACHER TREAD ISO | K8
1" = 1'-0"



HANDRAIL AT BOTTOM OF STAIR FLIGHT | K6
3/4" = 1'-0"



HANDRAIL EXTENSION AT TOP OF STAIR FLIGHT | K4
3/4" = 1'-0"



RAIL POST - FLOOR MOUNT | K1
6" = 1'-0"

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

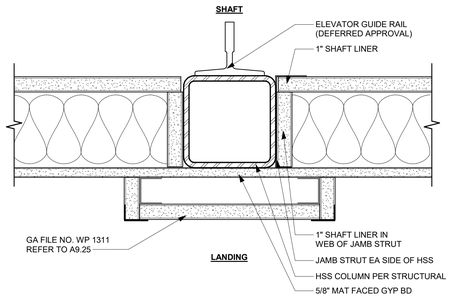
STAIR & GUARDRAIL DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

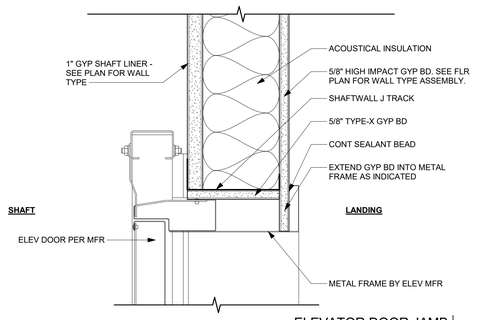
SHEET NO:

A7.11

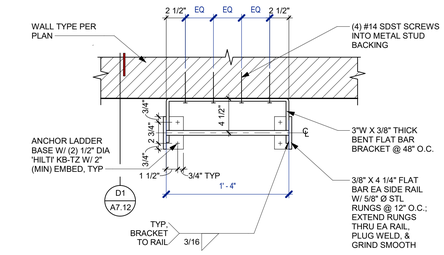
DSA SUBMITTAL II



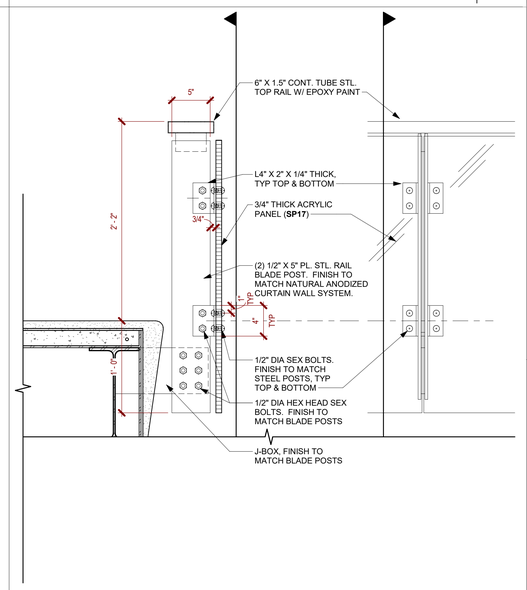
ENLARGED PLAN AT ELEVATOR GUIDERAIL COLUMN | B7
3" = 1'-0"



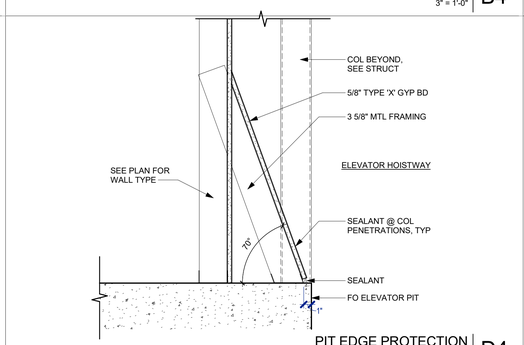
ELEVATOR DOOR JAMB | B4
3" = 1'-0"



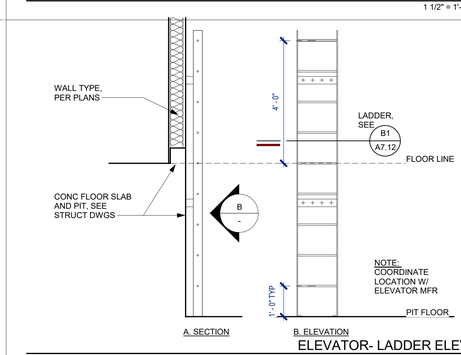
ELEVATOR- LADDER AT WALL | B1
1 1/2" = 1'-0"



GUARDRAIL w/ PANEL | F7
1 1/2" = 1'-0"

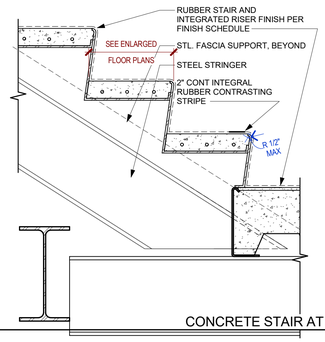


PIT EDGE PROTECTION | D4
1 1/2" = 1'-0"

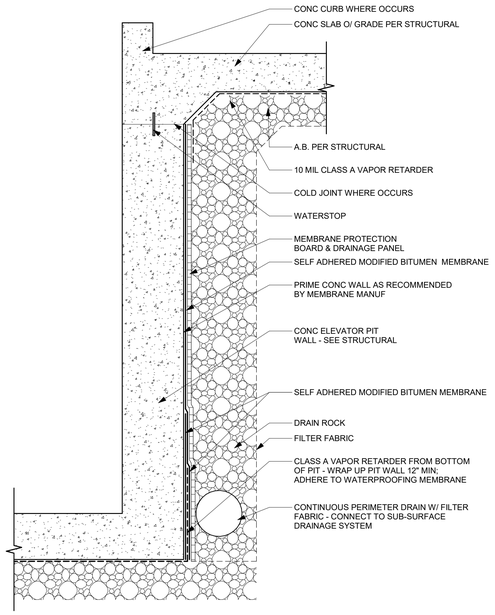


ELEVATOR- LADDER ELEV | D1
1/2" = 1'-0"

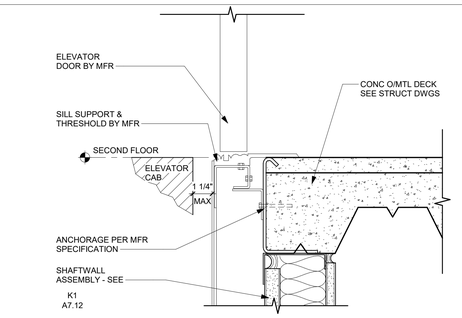
CONCRETE STAIR AT FLOOR/LANDING | H10
1 1/2" = 1'-0"



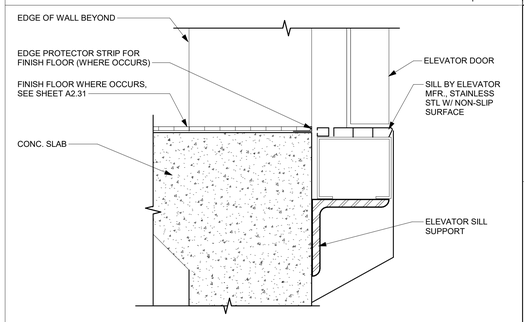
CONCRETE STAIR AT LANDING | H7
1 1/2" = 1'-0"



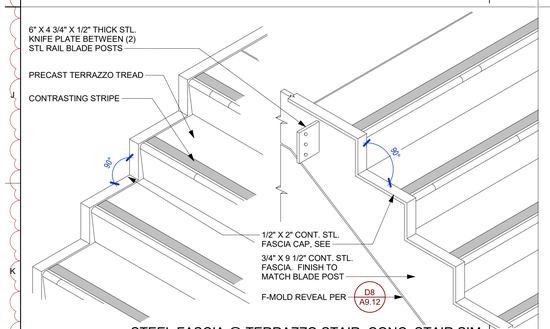
ELEVATOR PIT WATERPROOFING | H4
1 1/2" = 1'-0"



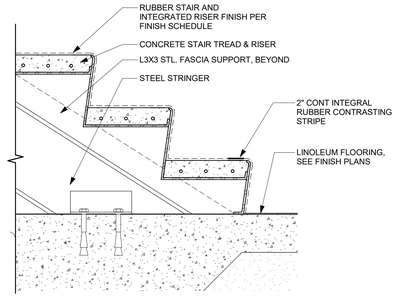
ELEVATOR DOOR SILL 2ND FLOOR | F1
3" = 1'-0"



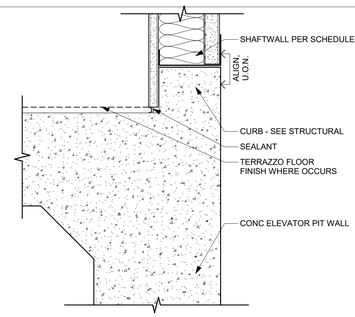
ELEVATOR DOOR SILL | H1
3" = 1'-0"



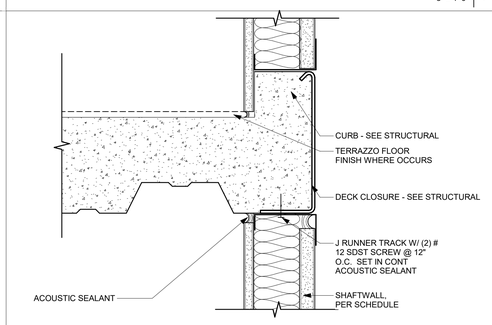
STEEL FASCIA @ TERRAZZO STAIR, CONC. STAIR SIM. | K10
1" = 1'-0"



CONCRETE STAIR AT GROUND FLOOR | K7
1 1/2" = 1'-0"



ELEVATOR SHAFT WALL AT SLAB ON GRADE | K4
3" = 1'-0"



ELEVATOR SHAFT WALL TO CONC FILL DECK | K1
3" = 1'-0"

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
6-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
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OFFICE OF REGULATION SERVICES
02-115990
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

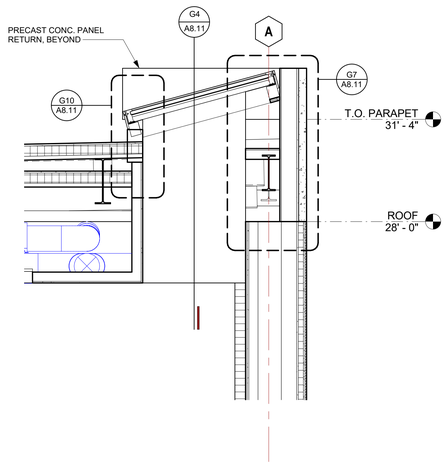
STAIR & ELEVATOR DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

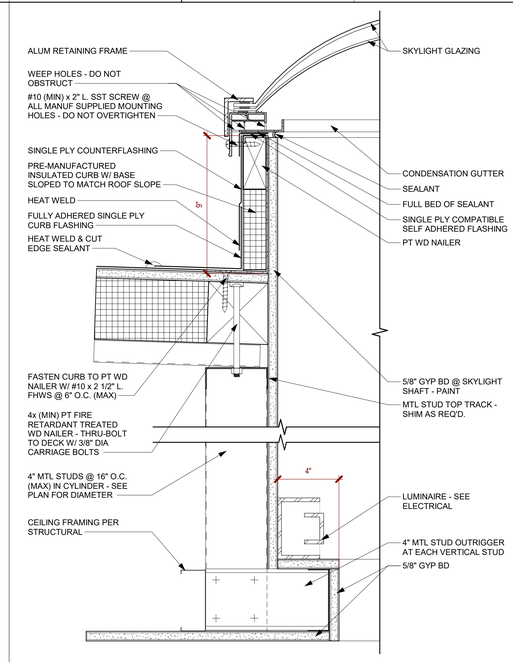
SHEET NO:

A7.12

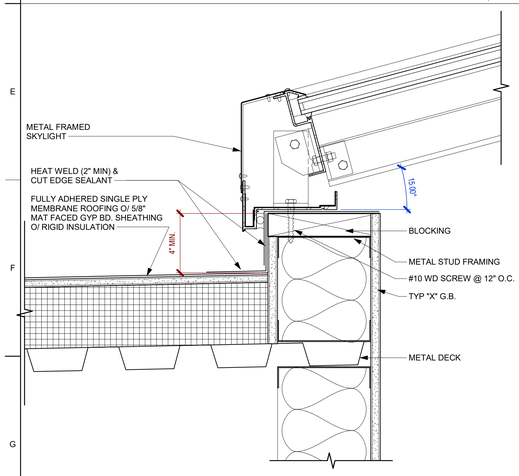
DSA SUBMITTAL II



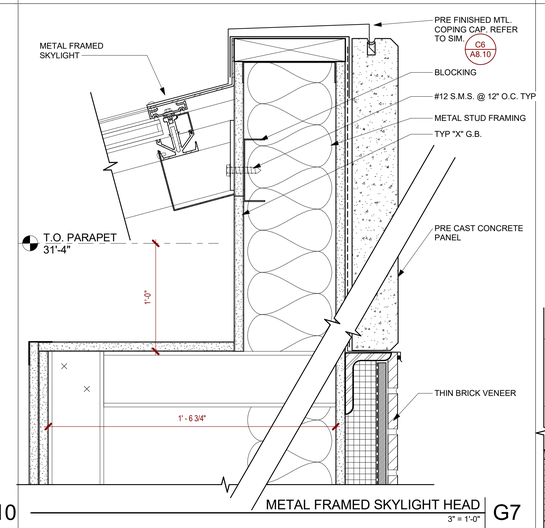
WALL SECTION AT LOBBY CLERESTORY
1/2" = 1'-0" | D7



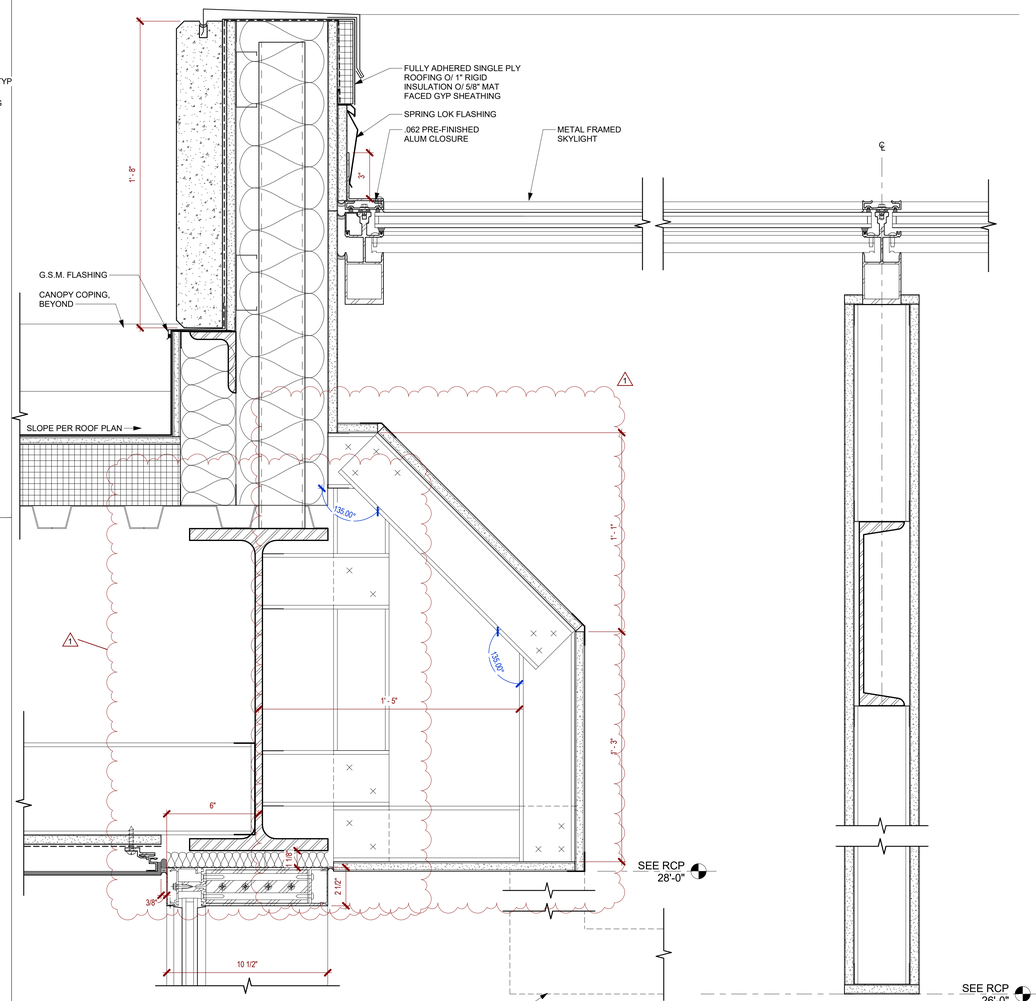
UNIT SKYLIGHT
3" = 1'-0" | D1



METAL FRAMED SKYLIGHT SILL
3" = 1'-0" | G10



METAL FRAMED SKYLIGHT HEAD
3" = 1'-0" | G7



SLOPED SKYLIGHT JAMB
3" = 1'-0" | G4

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NO.	ISSUE	DATE
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LICENSED ARCHITECT TROY DENNINGTON C-31288 RENEWAL 8-31-19 STATE OF CALIFORNIA

IDENTIFICATION STAMP
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

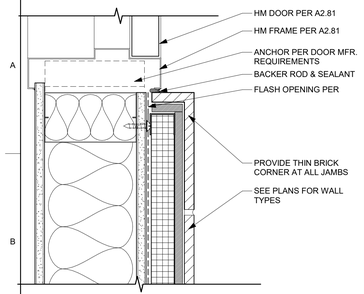
SKYLIGHT / ROOFING DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

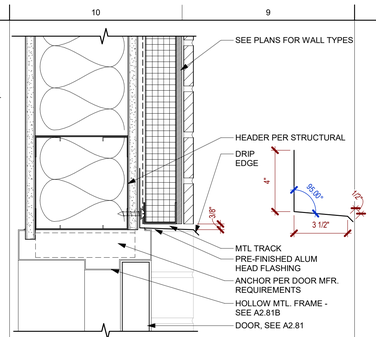
SHEET NO:

A8.11

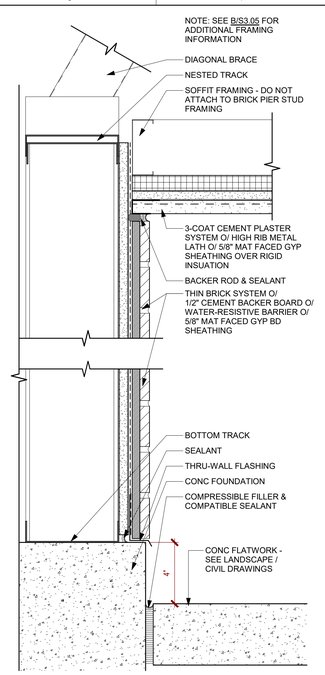
DSA SUBMITTAL II



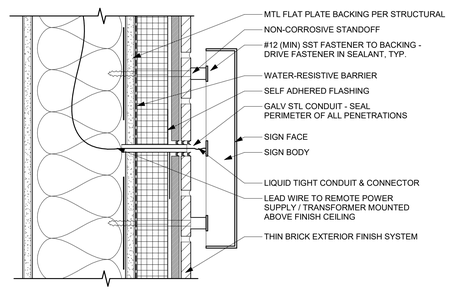
THIN BRICK VENEER @ HM - JAMB | B11
3" = 1'-0"



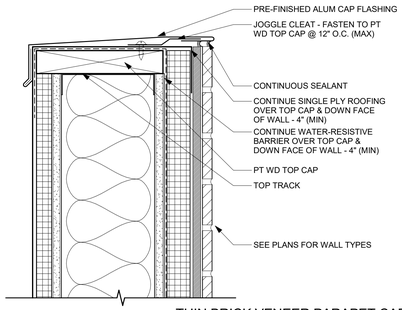
THIN BRICK VENEER @ HM- HEAD | B9
3" = 1'-0"



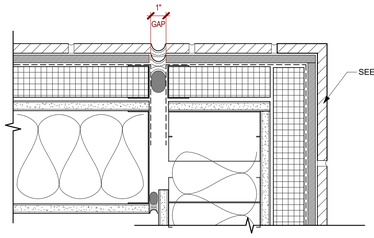
BRICK PIER SECTION | D7
3" = 1'-0"



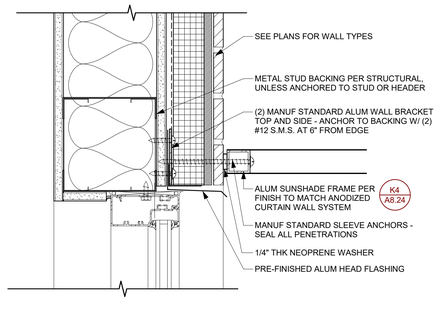
DIMENSIONAL LETTER ATTACHMENT @ THIN BRICK | B4
3" = 1'-0"



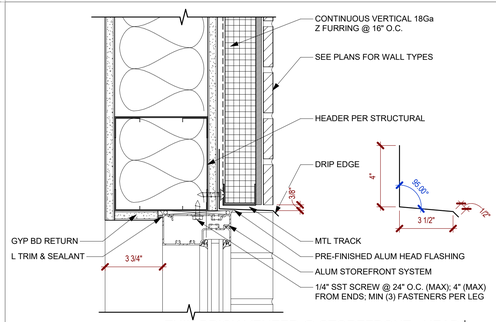
THIN BRICK VENEER PARAPET CAP | B1
3" = 1'-0"



VERTICAL SEISMIC JOINT | D9
3" = 1'-0"



SUNSHADE ATTACHMENT - HEAD | D4
3" = 1'-0"



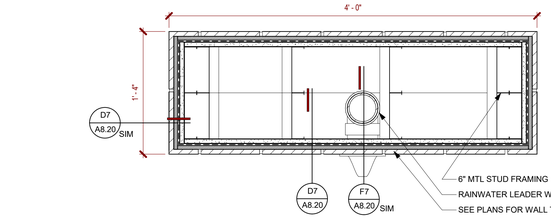
THIN BRICK VENEER @ STOREFRONT - HEAD | D1
3" = 1'-0"

THIN BRICK VERTICAL CONTROL JOINT | F9
3" = 1'-0"

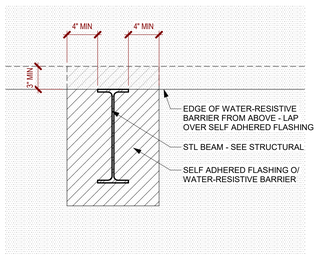
ROOF OVERFLOW OUTLET @ THIN BRICK | F7
3" = 1'-0"

SUNSHADE ATTACHMENT - JAMB | F4
3" = 1'-0"

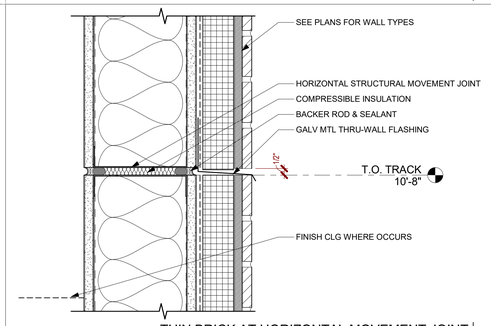
THIN BRICK VENEER @ STOREFRONT - JAMB | F1
3" = 1'-0"



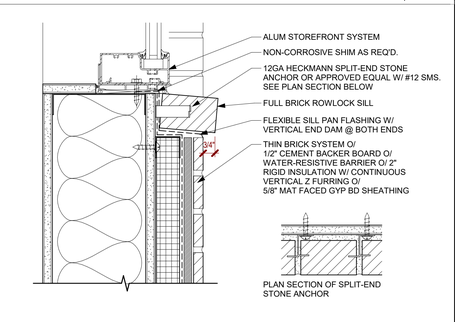
TYPICAL BRICK PIER | H9
1 1/2" = 1'-0"



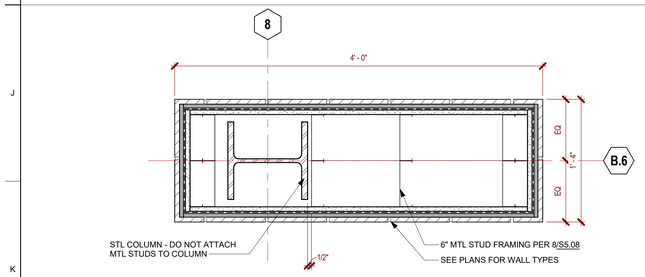
FLASHING AT BEAM PENETRATION | H7
1 1/2" = 1'-0"



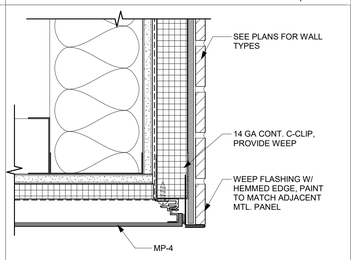
THIN BRICK AT HORIZONTAL MOVEMENT JOINT | H4
3" = 1'-0"



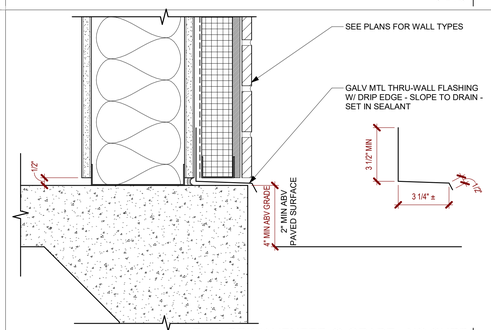
THIN BRICK VENEER @ STOREFRONT - SILL | H1
3" = 1'-0"



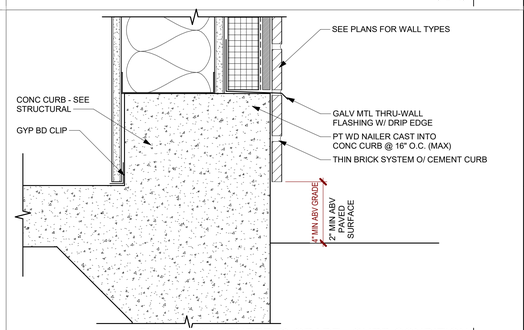
TYPICAL BRICK PILASTER @ STL COLUMN | K9
1 1/2" = 1'-0"



THIN BRICK VENEER @ SOFFIT | K7
3" = 1'-0"



THIN BRICK VENEER @ GRADE - NO CURB | K4
3" = 1'-0"



THIN BRICK VENEER @ GRADE - CURB CONDITION | K1
3" = 1'-0"

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ARCHITECT'S STAMP APPROVAL

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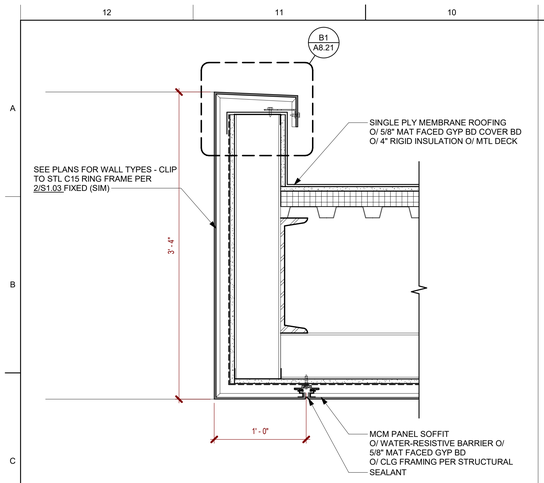
EXTERIOR DETAILS - THIN BRICK

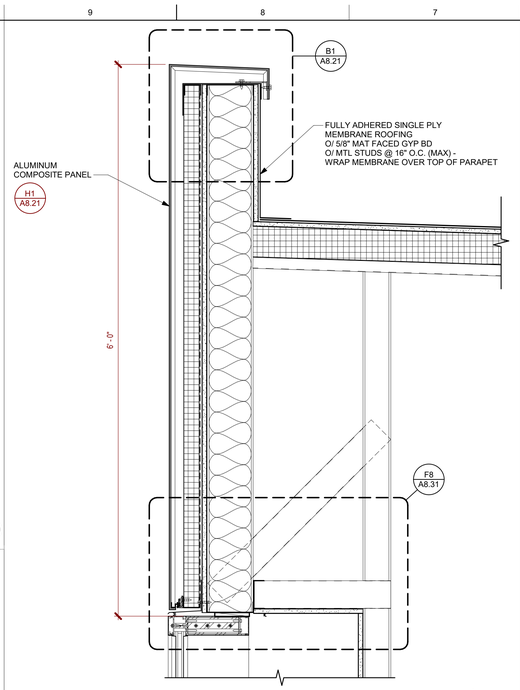
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A8.20

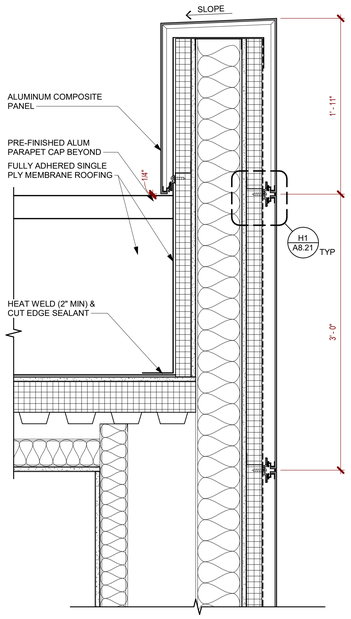
DSA SUBMITTAL II



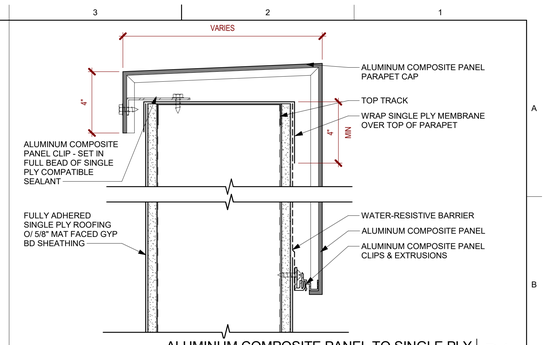
ALUMINUM COMPOSITE PANEL @ OCULUS | C10
1 1/2" = 1'-0"



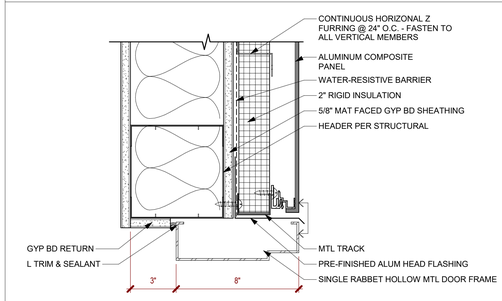
ALUMINUM COMPOSITE PANELS @ CURTAINWALL - HEAD | D7
1 1/2" = 1'-0"



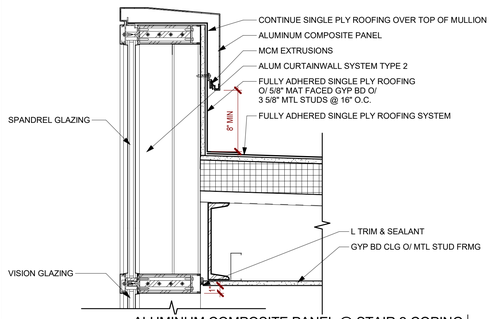
ALUMINUM COMPOSITE PANELS @ STAIR 2 | D4
1 1/2" = 1'-0"



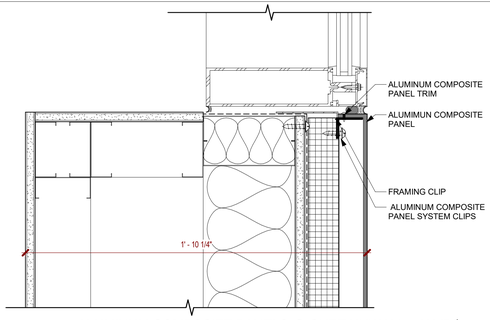
ALUMINUM COMPOSITE PANEL TO SINGLE PLY | B1
3" = 1'-0"



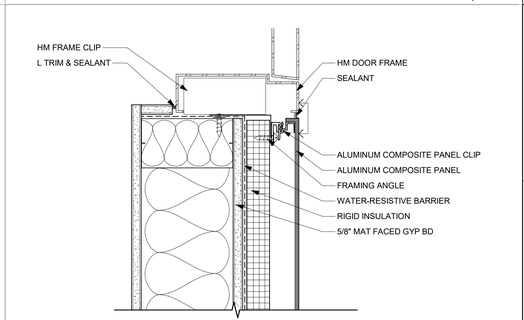
ALUMINUM COMPOSITE PANELS @ HM FRAME - HEAD | D1
3" = 1'-0"



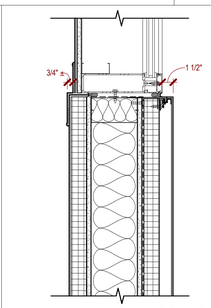
ALUMINUM COMPOSITE PANEL @ STAIR 2 COPING | F7
1 1/2" = 1'-0"



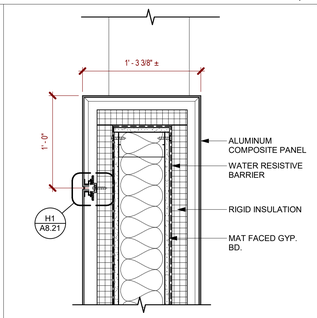
ALUMINUM COMPOSITE PANELS @ CURTAINWALL - JAMB | F4
3" = 1'-0"



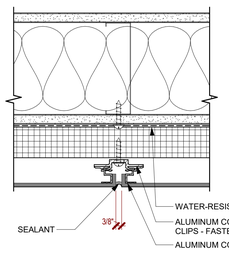
ALUMINUM COMPOSITE PANELS @ HM FRAME - JAMB | F1
3" = 1'-0"



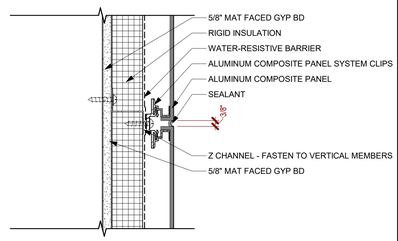
ALUMINUM COMPOSITE PANEL /
CURTAINWALL ABOVE ROOF | H9
1 1/2" = 1'-0"



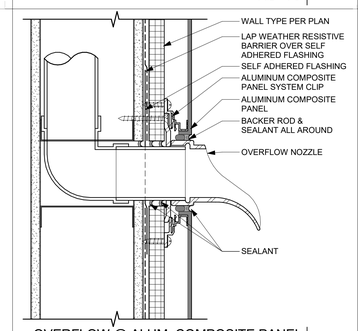
ALUMINUM COMPOSITE PANEL AT ROOF | H7
1 1/2" = 1'-0"



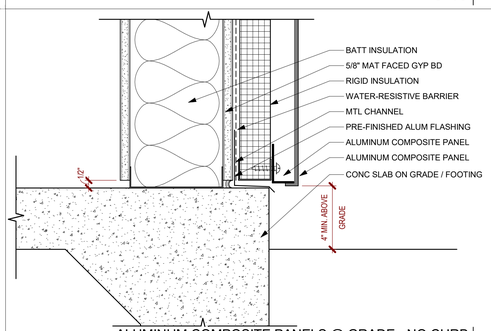
ALUMINUM COMPOSITE PANEL VERTICAL JOINT | H4
3" = 1'-0"



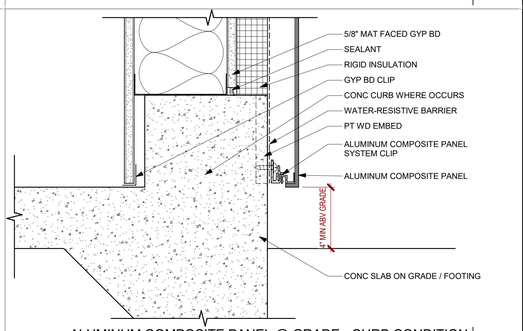
ALUMINUM COMPOSITE PANEL HORIZONTAL JOINT | H1
3" = 1'-0"



OVERFLOW @ ALUM. COMPOSITE PANEL | K7
3" = 1'-0"



ALUMINUM COMPOSITE PANELS @ GRADE - NO CURB | K4
3" = 1'-0"



ALUMINUM COMPOSITE PANEL @ GRADE - CURB CONDITION | K1
3" = 1'-0"

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LICENSED ARCHITECT
TROY PENNINGTON
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ARCHITECT'S STAMP APPROVAL

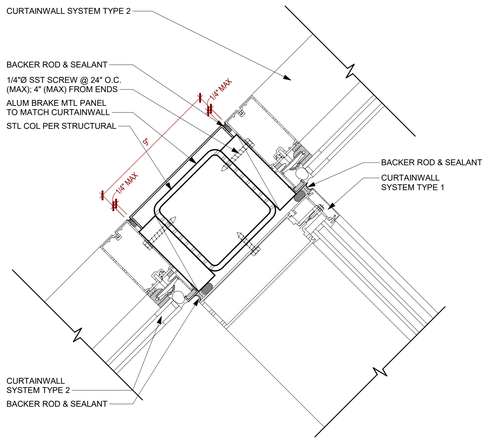
CONSULTANT

EXTERIOR DETAILS - METAL PANEL

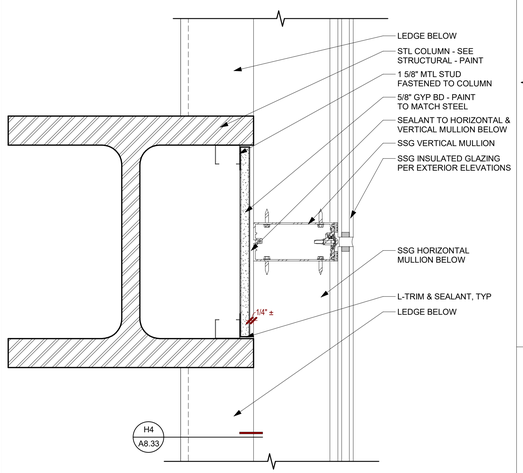
PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:
A8.21

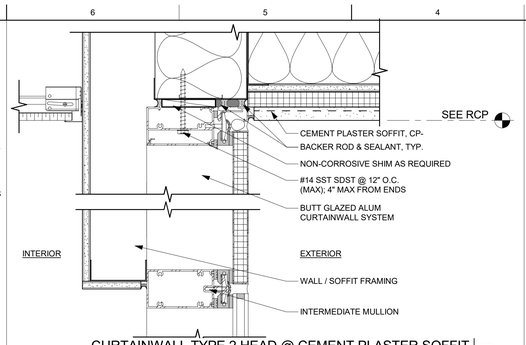
DSA SUBMITTAL II



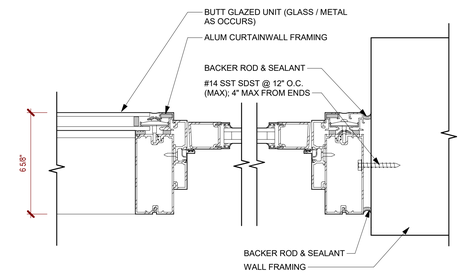
ENLARGED PLAN AT CURTAINWALL TYPE 1 / TYPE 2 INTERSECTION | C10
3" = 1'-0"



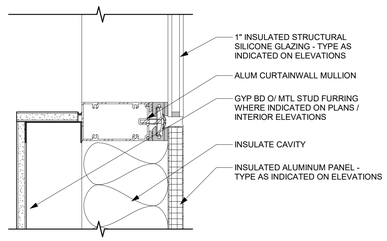
ENLARGED PLAN @ COLUMN / SSG @ INSULATED GLASS | C7
3" = 1'-0"



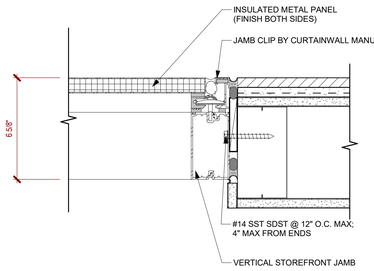
CURTAINWALL TYPE 2 HEAD @ CEMENT PLASTER SOFFIT | B4
3" = 1'-0"



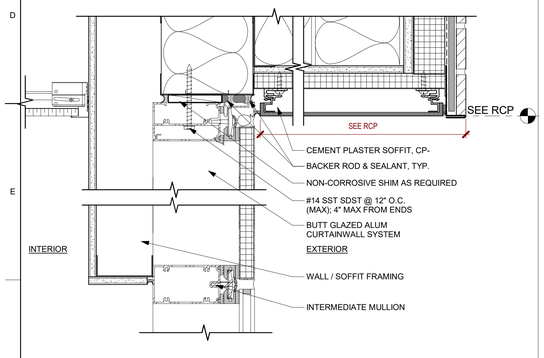
CURTAINWALL TYPE 2 DOOR OPG | B1
3" = 1'-0"



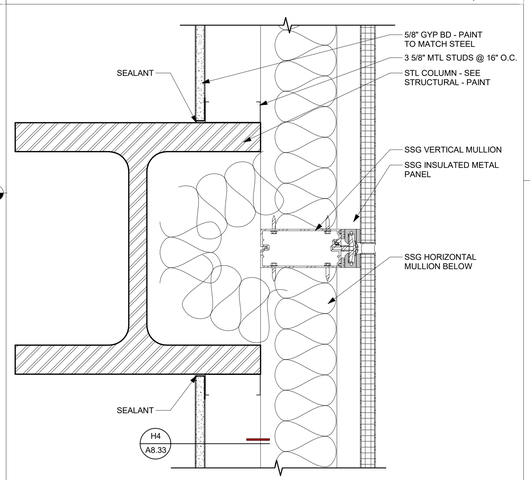
CURTAINWALL TYPE 2 HORIZONTAL MULLION | D4
3" = 1'-0"



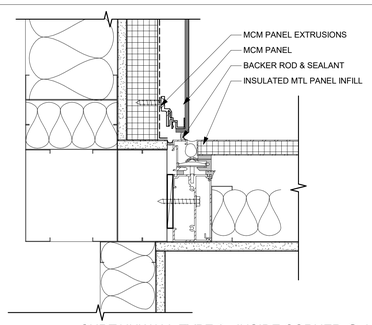
CURTAINWALL TYPE 2 MTL PANEL | D1
3" = 1'-0"



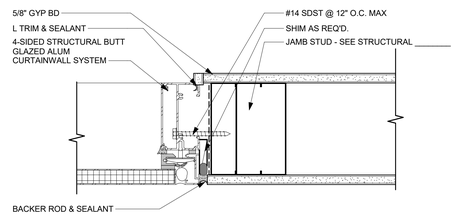
CURTAINWALL TYPE 2 HEAD @ MTL. SOFFIT | F11
3" = 1'-0"



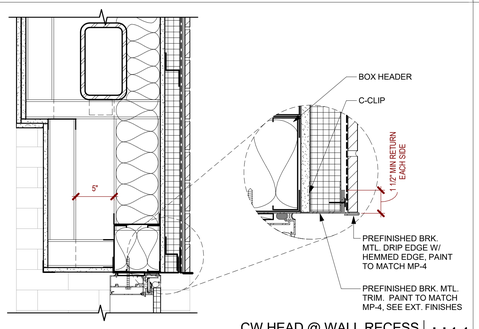
ENLARGED PLAN @ COLUMN / SSG @ SPANDREL | F7
3" = 1'-0"



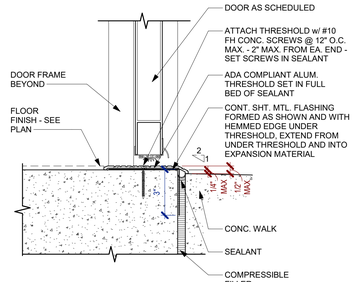
CURTAINWALL TYPE 2 - INSIDE CORNER @ ACM | F4
3" = 1'-0"



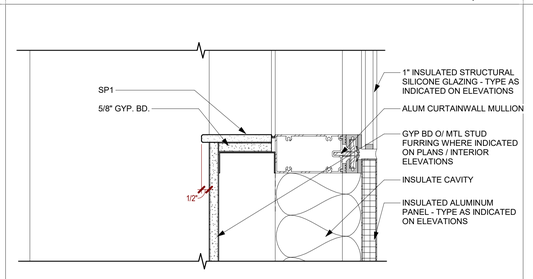
CURTAINWALL TYPE 2 JAMB | F1
3" = 1'-0"



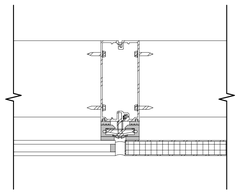
CW HEAD @ WALL RECESS | H11
1 1/2" = 1'-0"



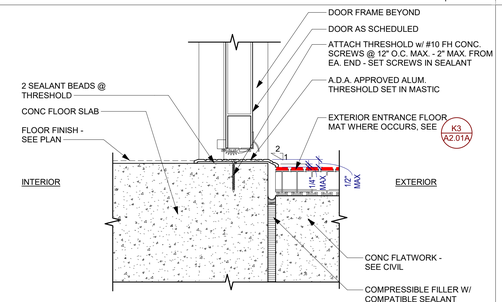
THRESHOLD AT EXTERIOR DOOR | H7
3" = 1'-0"



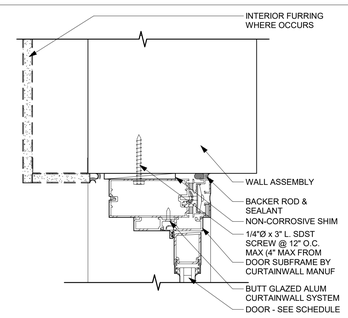
SECTION AT CURTAINWALL / SILL | H4
3" = 1'-0"



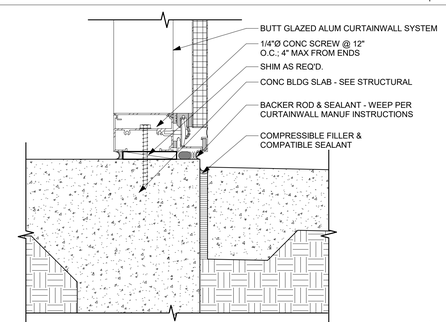
CURTAINWALL TYPE 2 VERTICAL MULLION | H1
3" = 1'-0"



THRESHOLD AT EXTERIOR DOOR WITH ENTRANCE FLOOR MAT | K7
3" = 1'-0"



CURTAINWALL DOOR HEAD | K4
3" = 1'-0"



CURTAINWALL TYPE 2 SILL AT SLAB | K1
3" = 1'-0"

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COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
Exp. 8-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

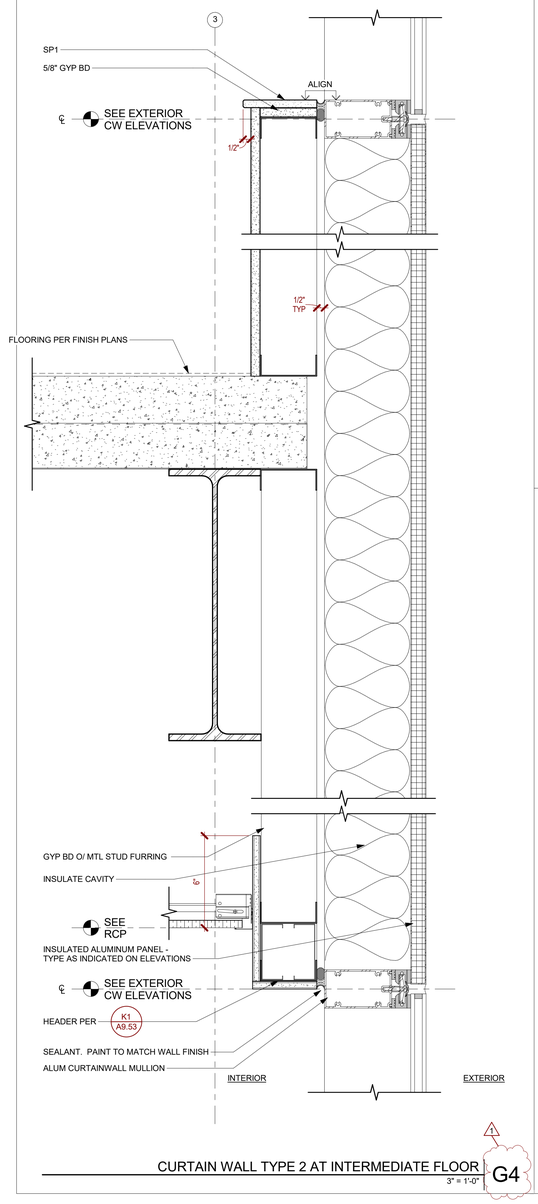
CURTAINWALL TYPE 2 DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

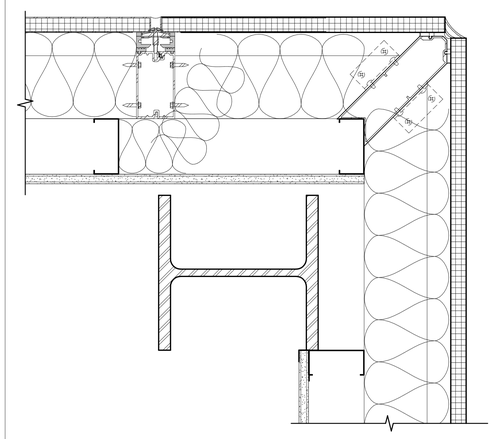
SHEET NO:

A8.33

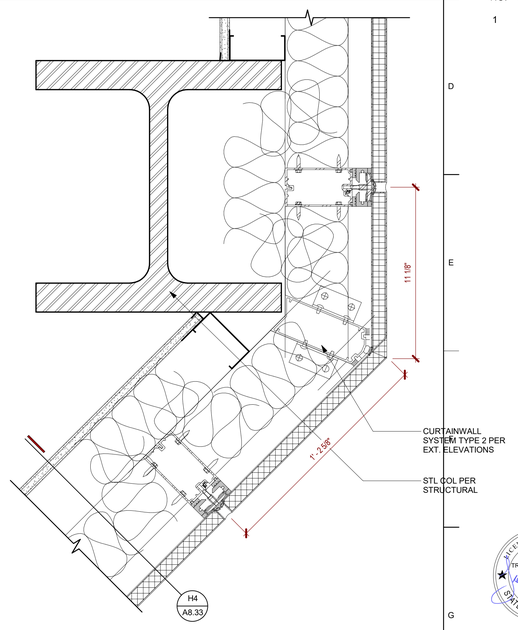
DSA SUBMITTAL II



CURTAIN WALL TYPE 2 AT INTERMEDIATE FLOOR | G4
3" = 1'-0"



CURTAINWALL TYPE 2 - 90° BUTT JOINT | C1
3" = 1'-0"



CURTAINWALL TYPE 2 - 45° BUTT JOINT | G1
3" = 1'-0"

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STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC _____ FLS _____ SS _____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

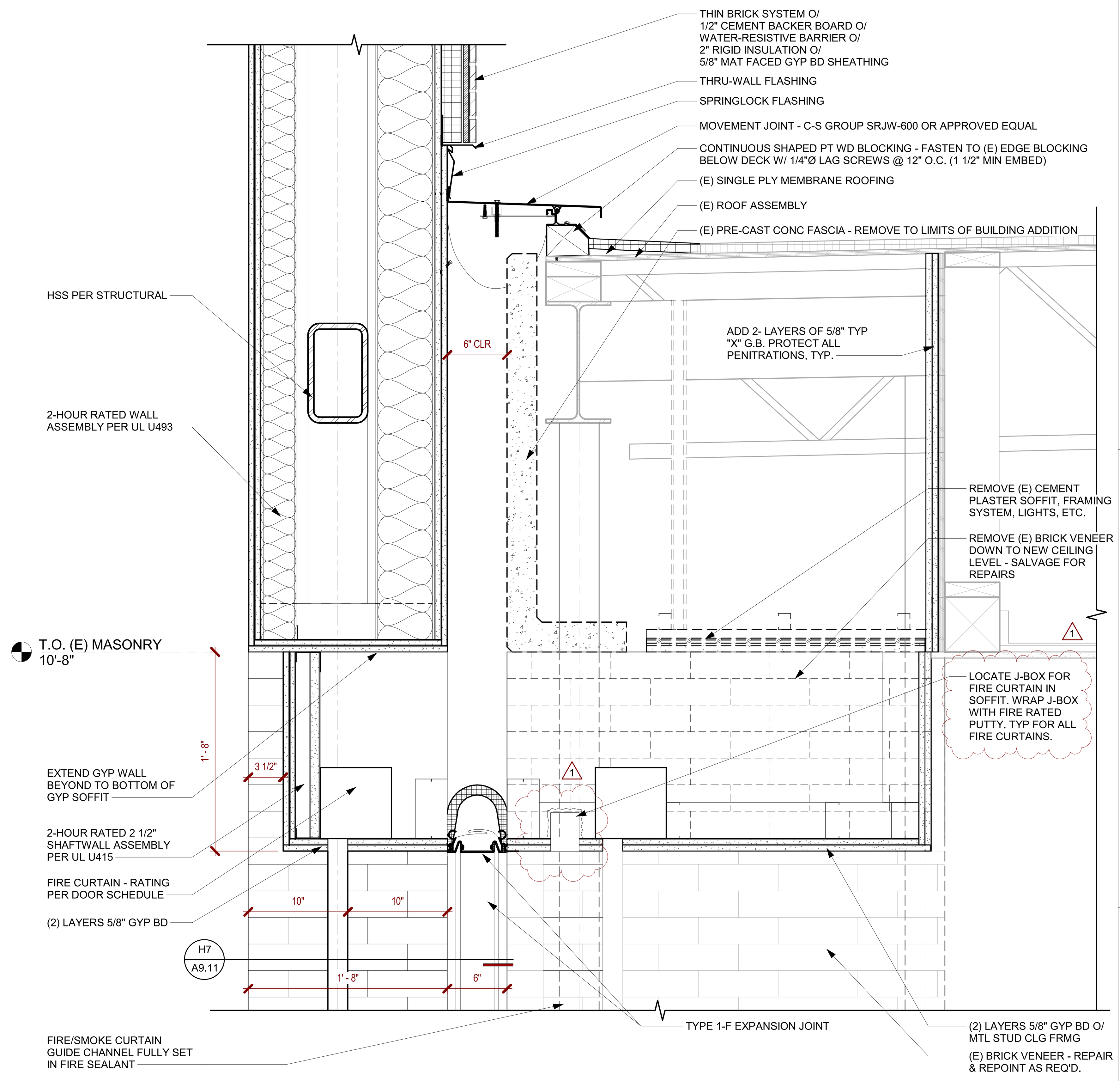
CURTAINWALL TYPE 2 DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

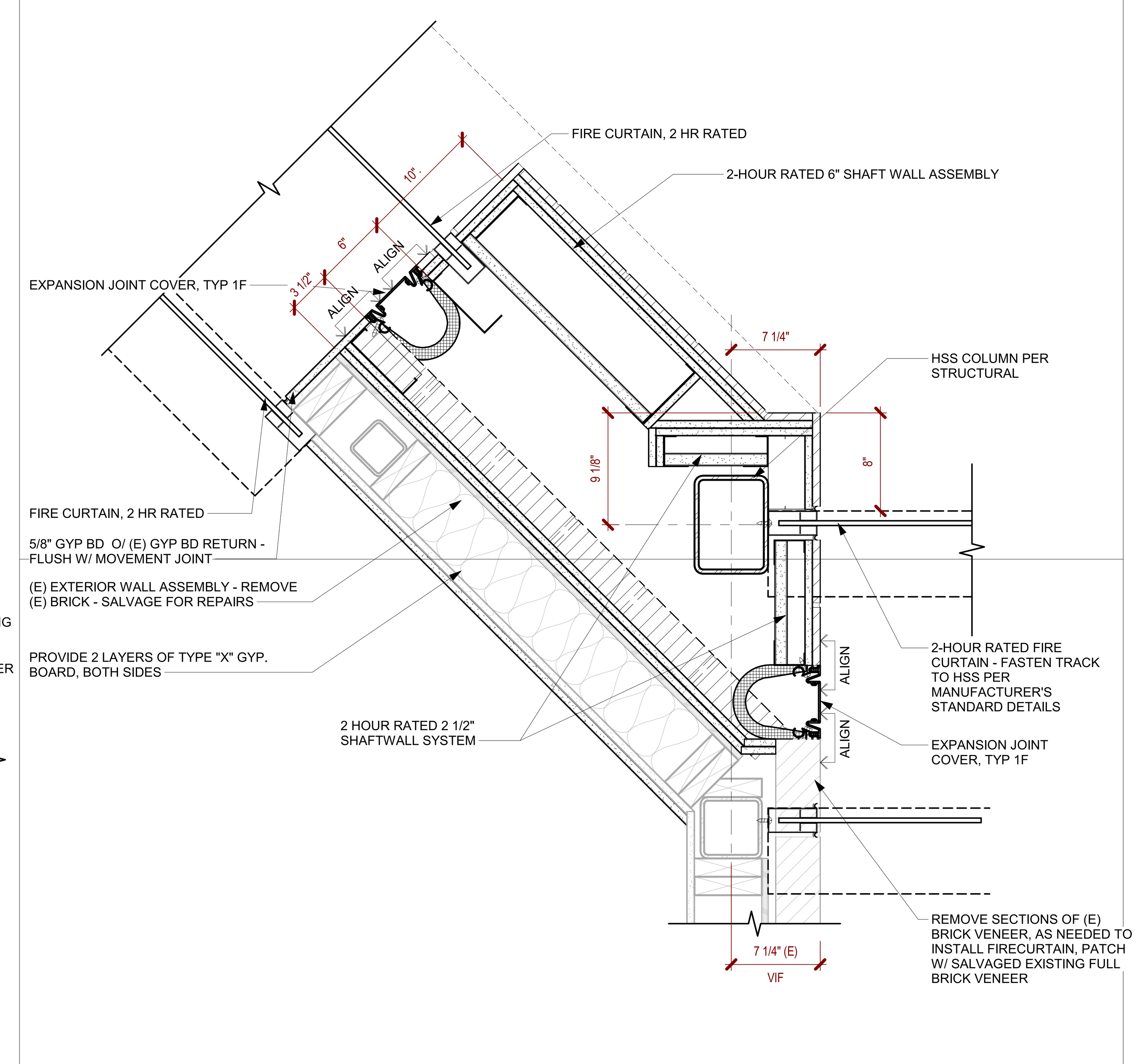
SHEET NO:

A8.34

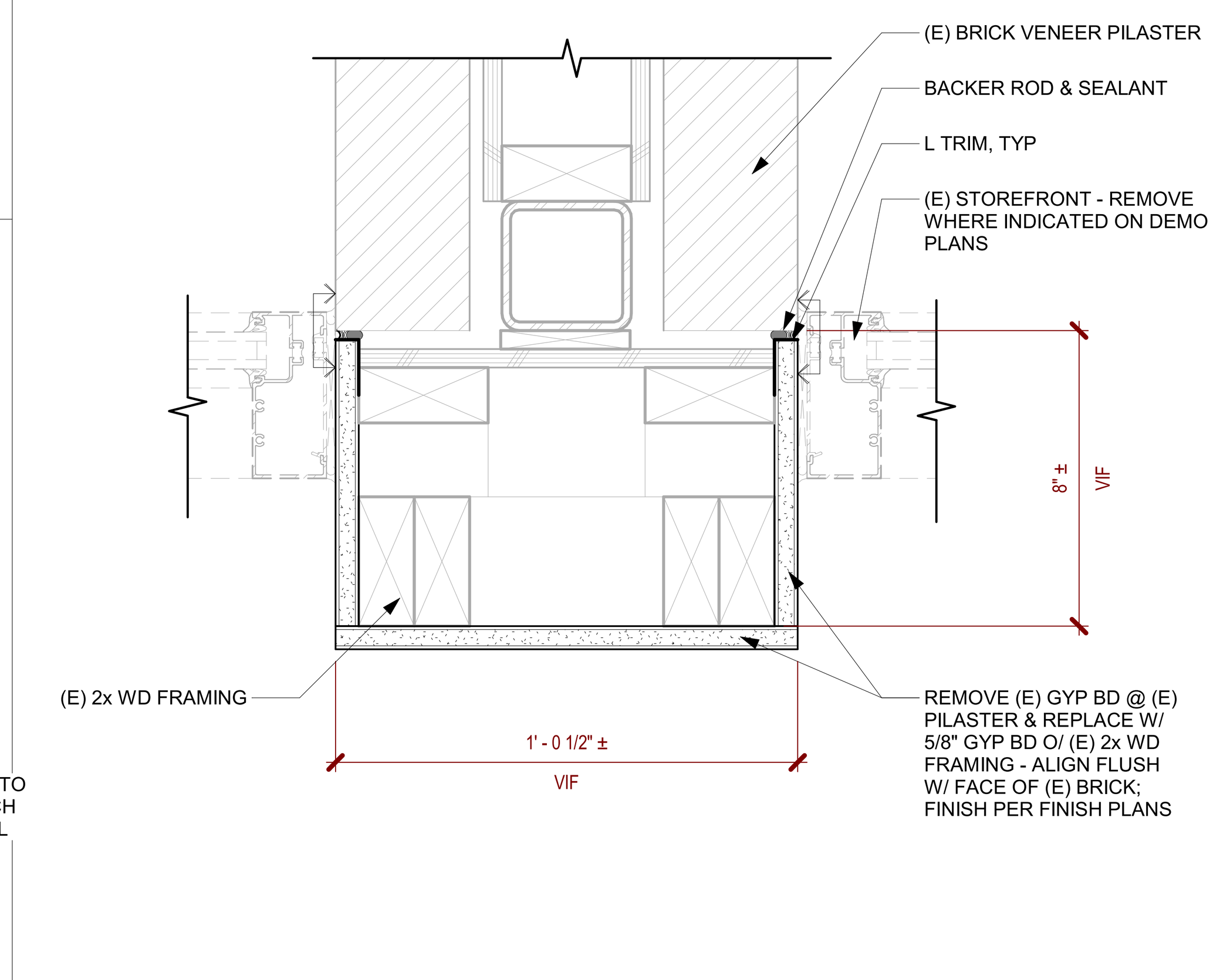
DSA SUBMITTAL II



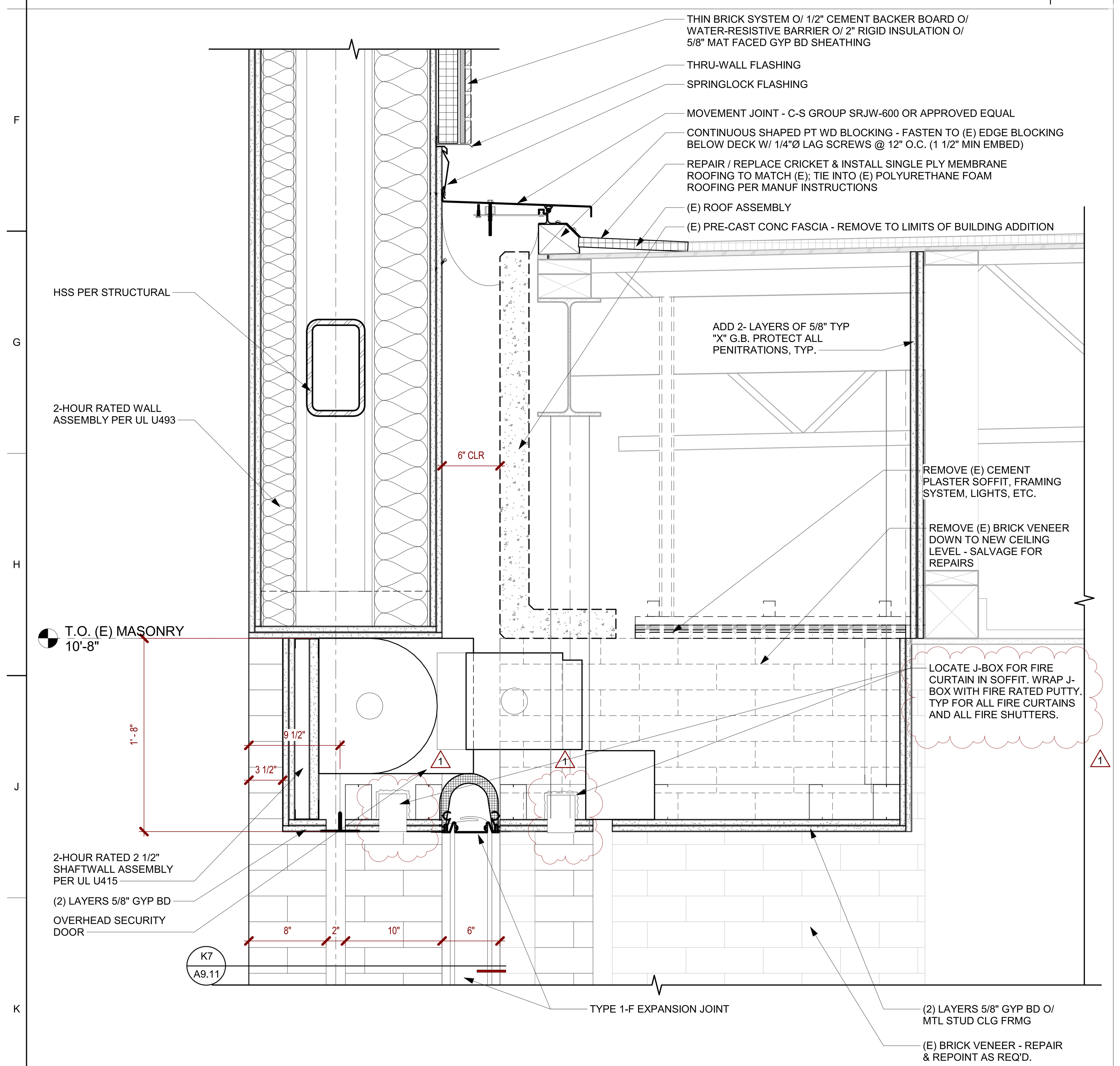
WALL SECTION AT LOBBY - SOUTH E8
1 1/2" = 1'-0"



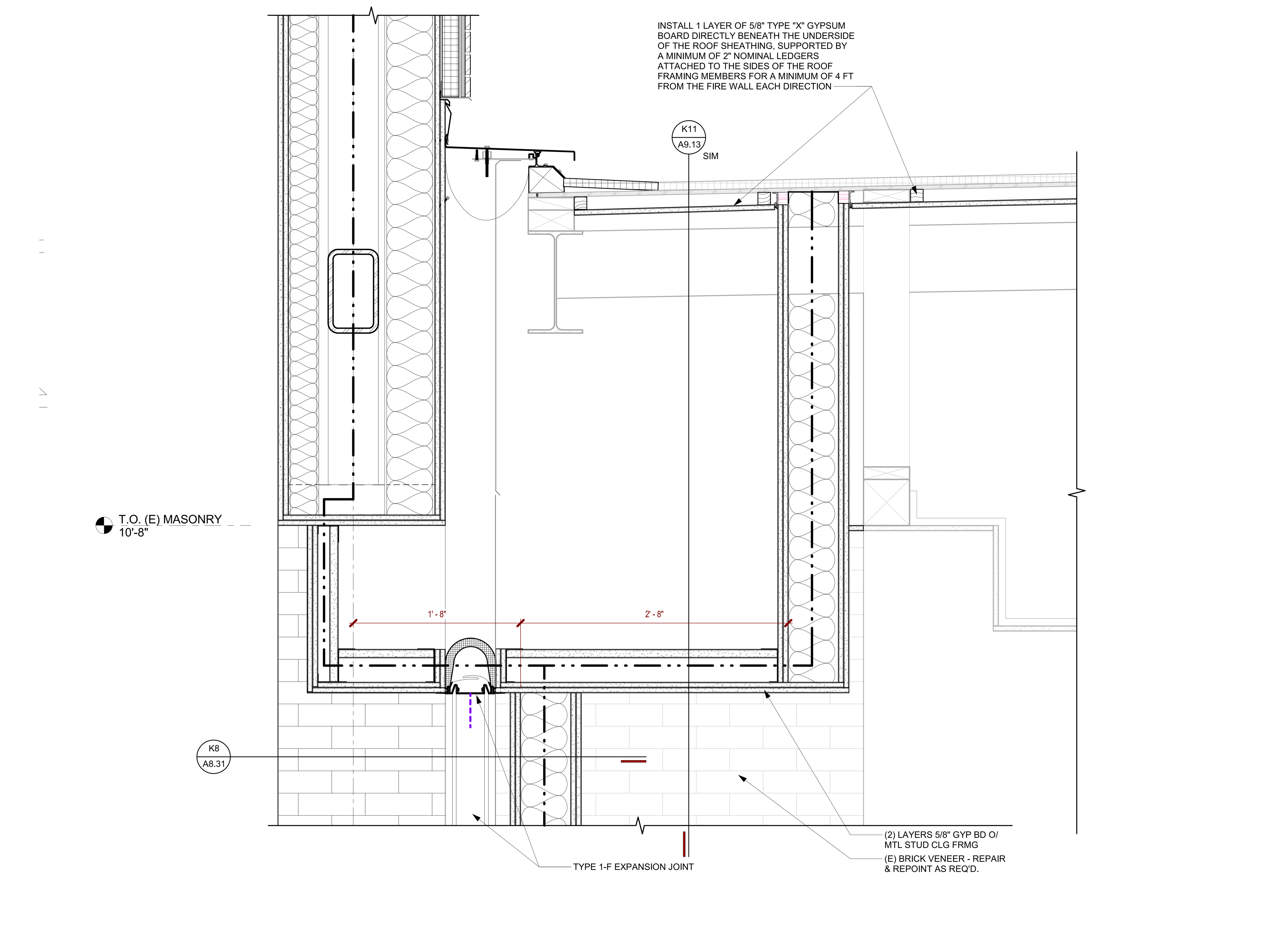
ENLARGED PLAN AT BUILDING INTERFACE D4
1 1/2" = 1'-0"



FINISH AT REMOVED STOREFRONT D1
3" = 1'-0"



WALL SECTION AT LOBBY - WEST K8
1 1/2" = 1'-0"



2 HOUR FIRE WALL AT LOBBY K1
1 1/2" = 1'-0"

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

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IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES

02-115990

AC ______ FLS ______ SS ______
DATE ______

ARCHITECT'S STAMP APPROVAL

CONSULTANT

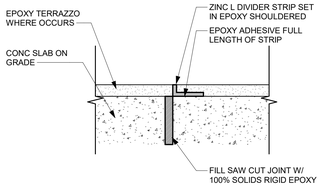
INTERIOR DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

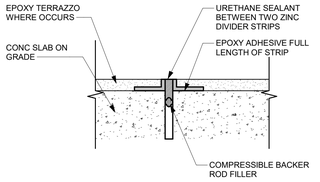
SHEET NO:

A9.10

DSA SUBMITTAL II

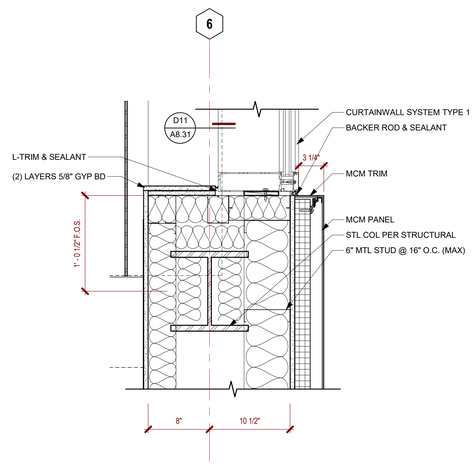


TERRAZZO CONTROL JOINT

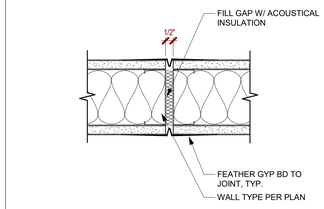


TERRAZZO EXPANSION JOINT

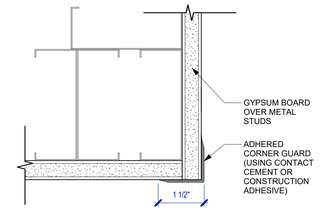
TERRAZZO JOINTS | 1
6" = 1'-0"



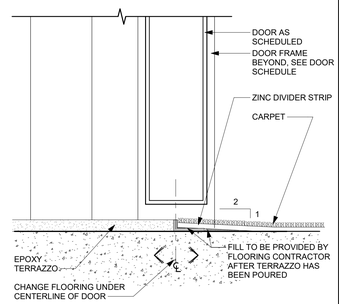
ENLARGED PLAN AT STAIR 2 - FIRST FLOOR - Callout 1 | C7
1 1/2" = 1'-0"



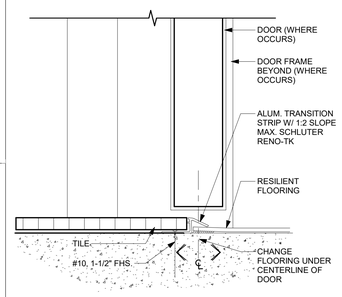
GYP BOARD CONTROL JOINT | B5
3" = 1'-0"



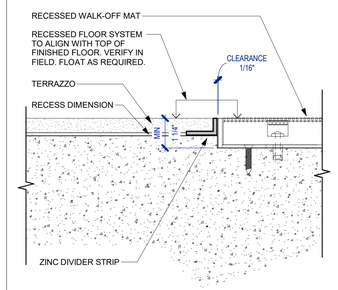
SURFACE MOUNTED CORNER GUARD | B3
6" = 1'-0"



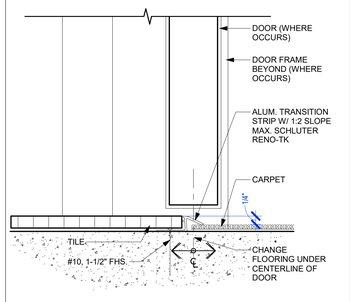
TERRAZZO TO CARPET | B1
6" = 1'-0"



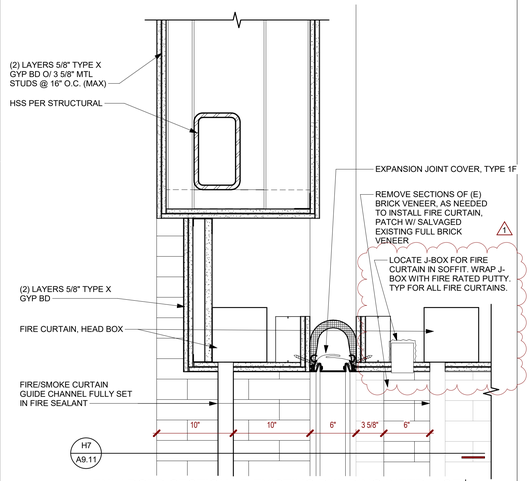
RESILIENT TO TILE TRANSITION | D5
6" = 1'-0"



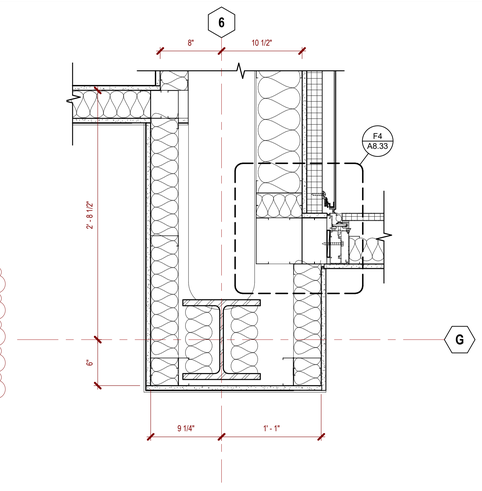
RECESSED ENTRY GRID AT TERRAZZO | D3
6" = 1'-0"



CARPET TO TILE TRANSITION | D1
6" = 1'-0"

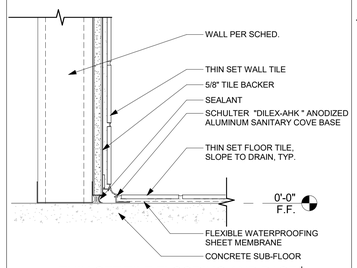


ENLARGED SECTION AT EXISTING BUILDING INTERFACE | F10
1 1/2" = 1'-0"



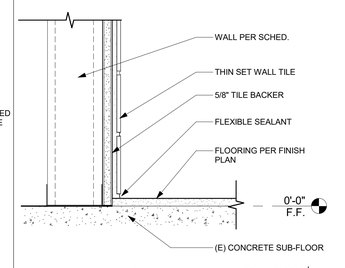
COLUMN FURRING / EXTERIOR WALL INTERSECTION AT GL G/6 | F7
1 1/2" = 1'-0"

NOTE:
TILE INSTALLATION SHALL FOLLOW MINIMUM REQUIREMENTS SET FORTH BY THE 'TILE COUNCIL OF NORTHERN CALIFORNIA' (T.C.N.A.) FOR THE CONDITIONS OF THE INSTALLATION BEING PERFORMED

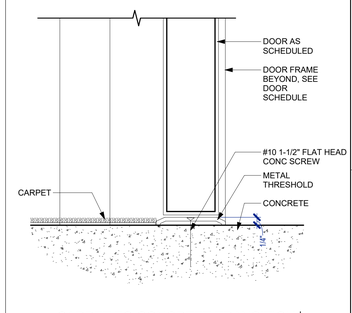


THIN-SET TILE FLOORING AND BASE | F5
3" = 1'-0"

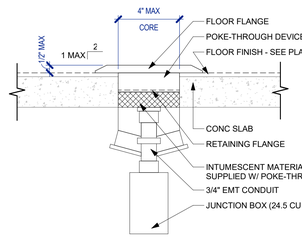
NOTE:
TILE INSTALLATION SHALL FOLLOW MINIMUM REQUIREMENTS SET FORTH BY THE 'TILE COUNCIL OF NORTHERN CALIFORNIA' (T.C.N.A.) FOR THE CONDITIONS OF THE INSTALLATION BEING PERFORMED



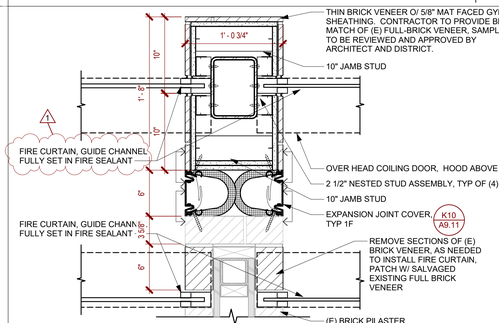
THIN-SET WALL TILE TO FLOOR | F3
3" = 1'-0"



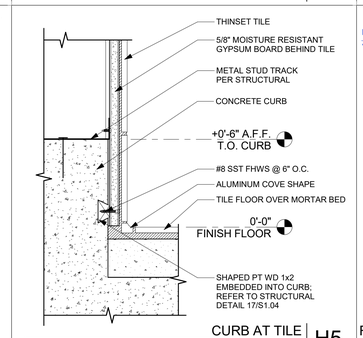
CARPET TO CONCRETE TRANSITION | F1
6" = 1'-0"



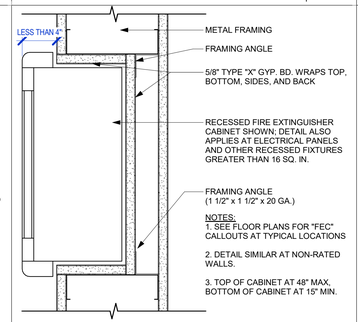
POKETHROUGH DETAIL | H10
3" = 1'-0"



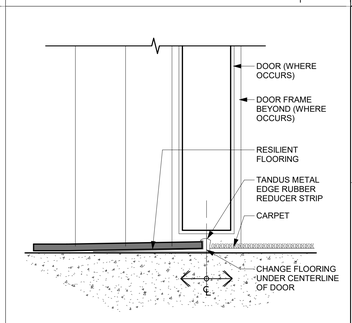
ENLARGED PLAN AT EXPANSION JOINT / SMOKE CURTAIN | H7
1 1/2" = 1'-0"



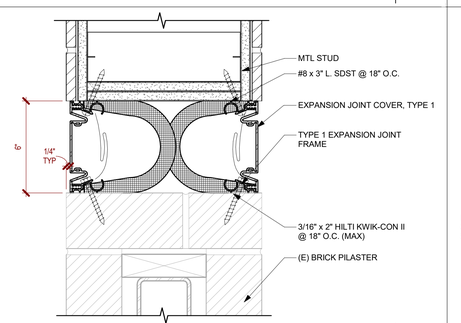
CURB AT TILE | H5
3" = 1'-0"



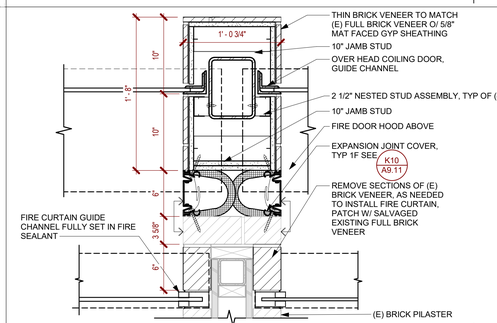
RECESSED F.E.C. AT RATED WALL (NR SIM.) | H3
3" = 1'-0"



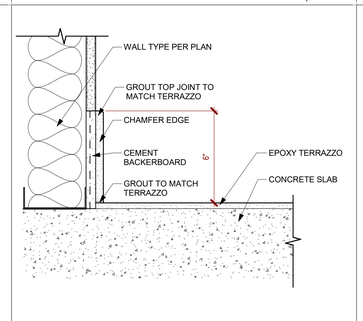
RESILIENT FLR TO CARPET TRANSITION1 | H1
6" = 1'-0"



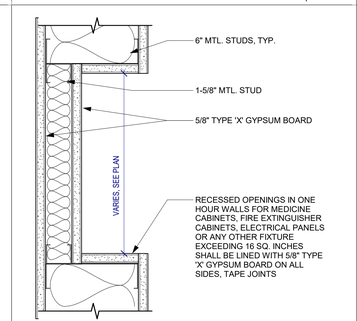
FWF MOVEMENT JOINT | K10
3" = 1'-0"



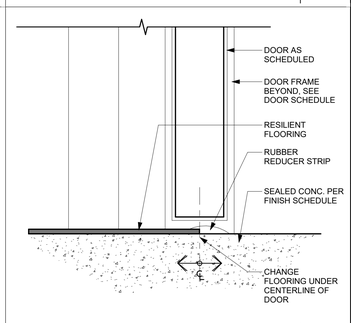
ENLARGED PLAN AT EXPANSION JOINT / OVERHEAD SECURITY DOOR | K7
1 1/2" = 1'-0"



TERRAZZO BASE | K5
3" = 1'-0"



1-HR WALL RECESS | K3
3" = 1'-0"



RESILIENT FLR TO CONCRETE TRANSITION | K1
6" = 1'-0"

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

REGISTERED ARCHITECT
TROY DENNINGTON
C-31285
6/30/19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

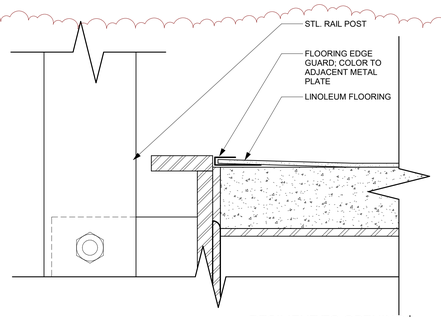
INTERIOR DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

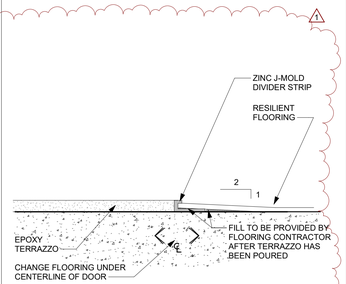
SHEET NO:

A9.11

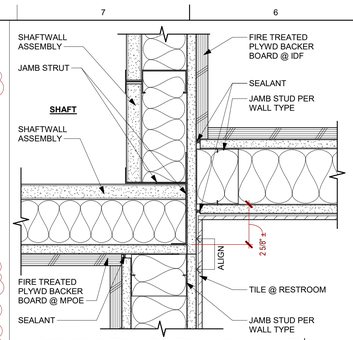
DSA SUBMITTAL II



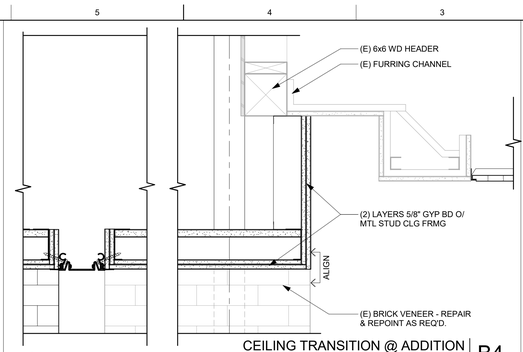
RESILIENT TO OPENING 6" = 1'-0" B10



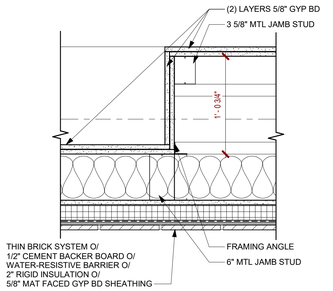
TERRAZZO TO RESILIENT 6" = 1'-0" B8



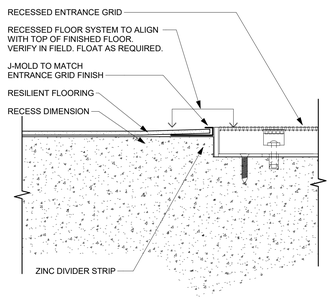
CORNER DETAIL @ MECHANICAL SHAFT 3" = 1'-0" B6



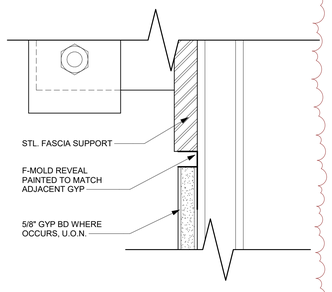
CEILING TRANSITION @ ADDITION 1 1/2" = 1'-0" B4



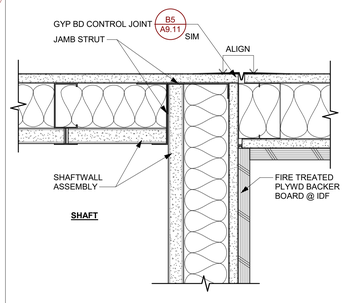
ENLARGED PLAN AT RECESS 1 1/2" = 1'-0" B1



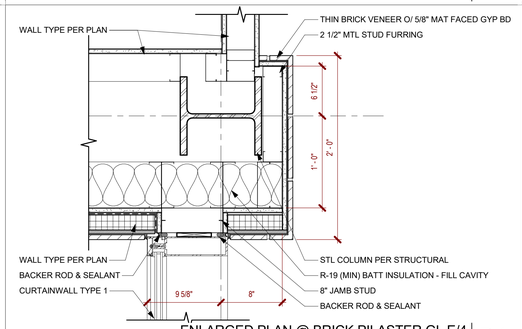
RECESSED ENTRY GRID AT RESILIENT 6" = 1'-0" D10



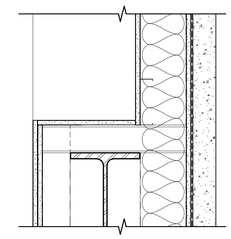
REVEAL AT RAILING 6" = 1'-0" D8



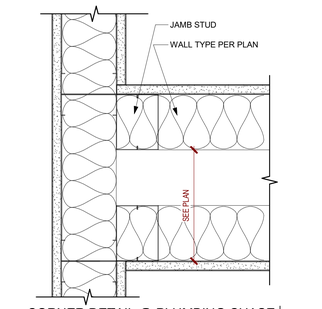
CORNER DETAIL @ MECHANICAL SHAFT 3" = 1'-0" D6



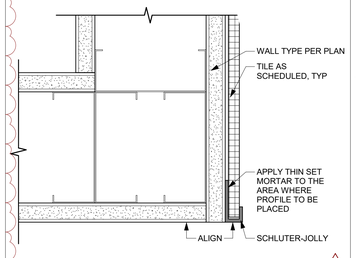
ENLARGED PLAN @ BRICK PILASTER GL E/4 1 1/2" = 1'-0" D4



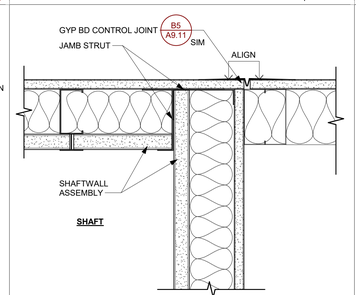
WALL RECESS AT LOBBY - SILL 1 1/2" = 1'-0" D1



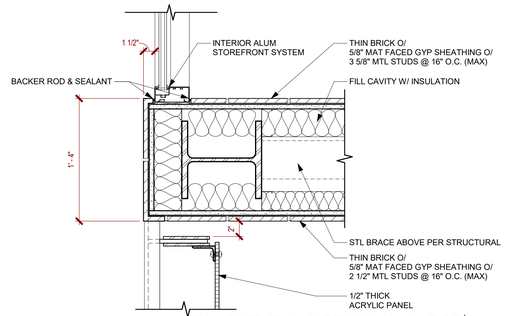
CORNER DETAIL @ PLUMBING CHASE 3" = 1'-0" F10



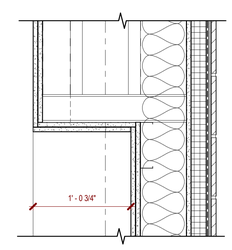
TILE @ OUTSIDE CORNER 6" = 1'-0" F8



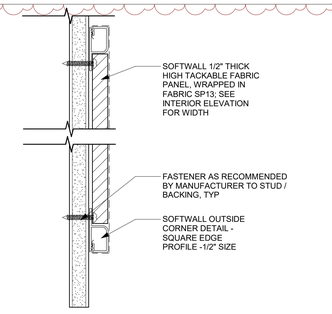
CORNER DETAIL @ MECHANICAL SHAFT 3" = 1'-0" F6



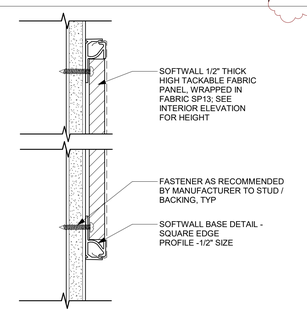
ENLARGED PLAN @ BRICK WALL GL B.6/7 1 1/2" = 1'-0" F3



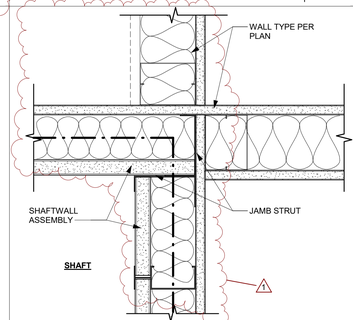
WALL RECESS AT LOBBY - HEAD 1 1/2" = 1'-0" F1



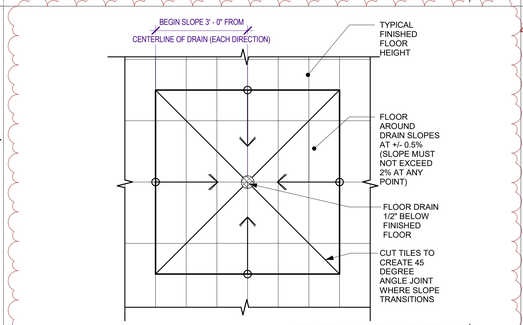
FABRIC WRAPPED TACK PANEL SIDE 6" = 1'-0" H10



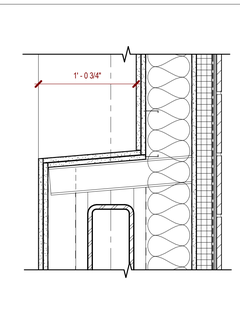
FABRIC WRAPPED TACK PANEL 6" = 1'-0" H8



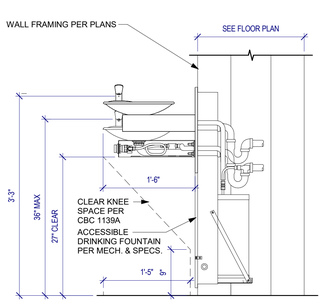
CORNER DETAIL @ MECHANICAL SHAFT 3" = 1'-0" H6



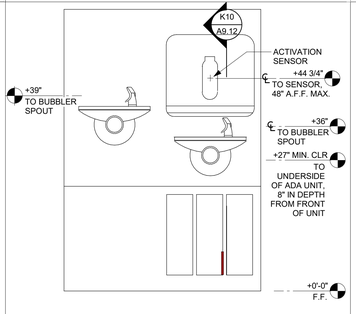
RESTROOM FLOOR DRAIN 1/2" = 1'-0" H3



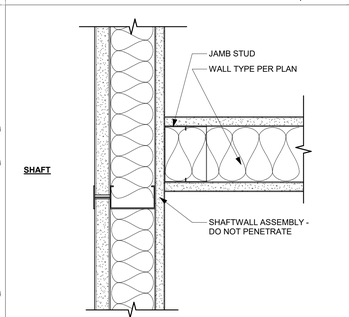
WALL HEAD AT LOBBY SKYLIGHT 1 1/2" = 1'-0" H1



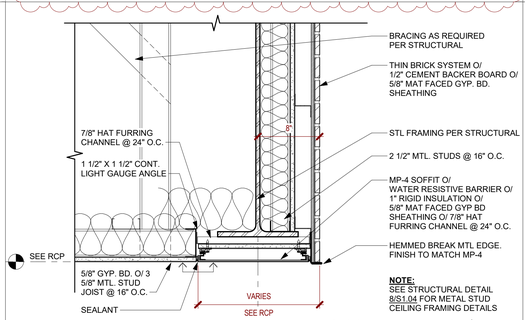
TYPICAL DRINKING FOUNTAIN SECTION 1" = 1'-0" K10



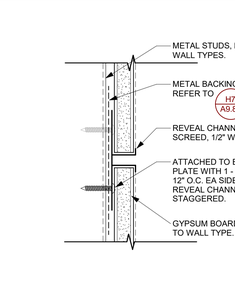
WATER COOLER W/ BOTTLE FILLER ELEV. 1" = 1'-0" K8



CORNER DETAIL @ MECHANICAL SHAFT 3" = 1'-0" K6



THIN BRICK VENEER @ SOFFIT - INTERIOR 1 1/2" = 1'-0" K3



GYPSUM BOARD REVEAL 6" = 1'-0" K1

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LICENSED ARCHITECT TROY PENNINGTON C-31295 6.01.19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION
SERVICES
02-115990
AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

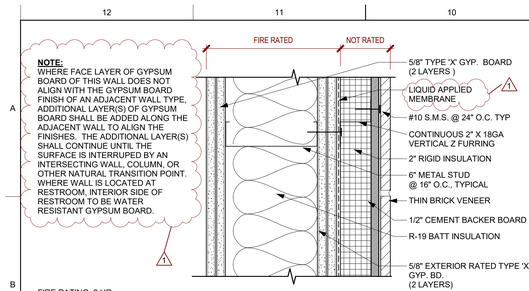
INTERIOR DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

A9.12

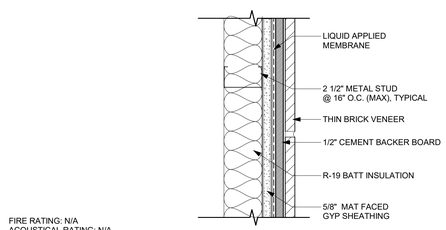
DSA SUBMITTAL II



NOTE:
WHERE FACE LAYER OF GYPSUM BOARD OF THIS WALL DOES NOT ALIGN WITH THE GYPSUM BOARD FINISH OF AN ADJACENT WALL TYPE, ADDITIONAL LAYER(S) OF GYPSUM BOARD SHALL BE ADDED ALONG THE ADJACENT WALL TO ALIGN THE FINISHES. THE ADDITIONAL LAYER(S) SHALL CONTINUE UNTIL THE SURFACE IS INTERRUPED BY AN INTERSECTING WALL, COLUMN, OR OTHER NATURAL TRANSITION POINT. WHERE WALL IS LOCATED AT RESTROOM, INTERIOR SIDE OF RESTROOM TO BE WATER RESISTANT GYPSUM BOARD.

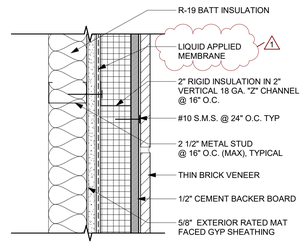
FIRE RATING: 2 HR
PER CBC 13-1.2
(REFER TO TABLE 721.1(2)

ES2-00-00_ 2 HR 6" MTL W/ THIN BRICK
3" = 1'-0" | ES2-00-00



FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-07_ 2 1/2" MTL W/ THIN BRICK
3" = 1'-0" | ES0-00-07

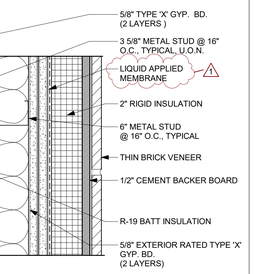


FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-01_ 2 1/2" MTL W/ THIN BRICK
3" = 1'-0" | ES0-00-01

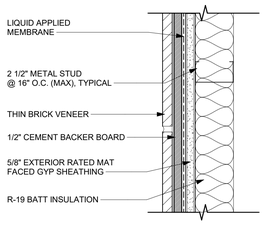
GENERAL NOTES

1. UNLESS OTHERWISE NOTED, EXTERIOR WALL SHALL BE TYPE ES2-00-00
2. UNLESS OTHERWISE NOTED, INTERIOR WALLS SHALL BE TYPE IS0-50-01.
3. SEE SHEET A2.31-A2.32 FOR FINISHES.
4. USE MAT FACED, MOISTURE-RESISTANT GYPSUM BOARD IN TOILET ROOMS, JANITOR ROOMS, MECHANICAL ROOMS, UNCONDITIONED SPACES, WHETHER SPECIFICALLY INDICATED IN WALL TYPE OR NOT.
5. ALL WALLS NOT INDICATED TO RECEIVE ACOUSTICAL INSULATION SHALL RECEIVE THERMAL BATT INSULATION TO FILL CAVITY.
6. ALL WALLS SHALL TERMINATE TO BOTTOM OF DECK, UNLESS OTHERWISE NOTED. SEE STRUCTURAL DRAWINGS FOR DEFLECTION REQUIREMENTS.
7. ELECTRICAL BOXES ON OPPOSITE SIDES OF WALL SHOULD BE OFFSET FROM EACH OTHER A MINIMUM OF 24".
8. WHERE FACE LAYER OF GYPSUM BOARD OF A WALL DOES NOT ALIGN WITH THE GYPSUM BOARD FINISH OF AN ADJACENT WALL TYPE., ADDITIONAL LAYER(S) OF GYPSUM BOARD SHALL BE ADDED ALONG THE ADJACENT WALL TO ALIGN THE FINISHES. THE ADDITIONAL LAYER(S) SHALL CONTINUE UNTIL THE SURFACE IS INTERRUPTED BY AN INTERSECTING WALL, COLUMN, OR OTHER NATURAL TRANSITION POINT.
9. ALL INTERIOR AND EXTERIOR GYPSUM BOARDS SHALL BE TYPE 'X'
10. Z-FURRING SHALL BE ORIENTED VERTICALLY @ 16" O.C. AND ALIGNED w. WALL FRAMING PER K1/A9.20



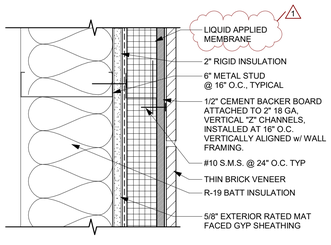
FIRE RATING: 2 HR
PER CBC 13-1.2
(REFER TO TABLE 721.1(2)

ES2-00-01_ 2 HR 6" MTL W/ THIN BRICK & FURRING
3" = 1'-0" | ES2-00-01



FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-07_ 2 1/2" MTL W/ THIN BRICK
3" = 1'-0" | ES0-00-08



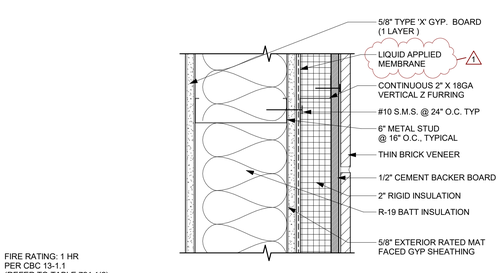
FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-03_ 6" MTL W/ THIN BRICK - NO INTERIOR FINISH
3" = 1'-0" | ES0-00-03

ES0-00-09_ 6" MTL W/ THIN BRICK & FURRING
3" = 1'-0" | ES0-00-09

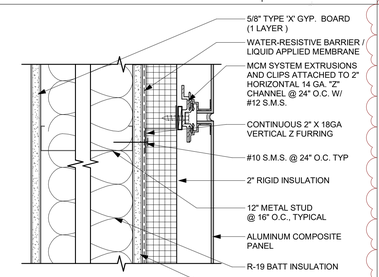
FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-04_ 6" MTL W/ ACM PANEL
3" = 1'-0" | ES0-00-04



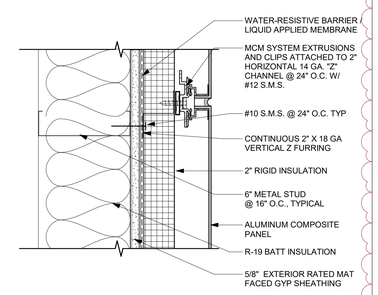
FIRE RATING: 1 HR
PER CBC 13-1.1
(REFER TO TABLE 721.1(2)

ES1-00-02_ 6" MTL W/ THIN BRICK
3" = 1'-0" | ES1-00-02



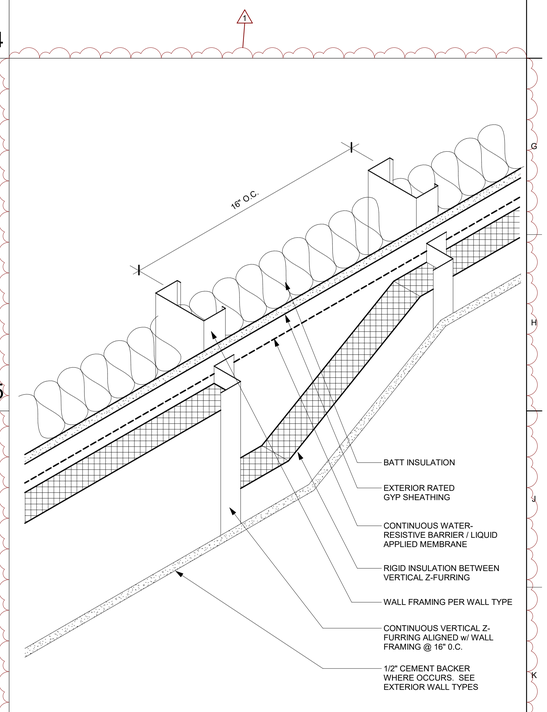
FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-05_ 12" MTL W/ ACM PANEL
3" = 1'-0" | ES0-00-05



FIRE RATING: N/A
ACOUSTICAL RATING: N/A

ES0-00-06_ 6" MTL W/ ACM PANEL - NO INTERIOR FINISH
3" = 1'-0" | ES0-00-06



TYPICAL VERTICAL FURRING
3" = 1'-0" | K1

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LICENSED ARCHITECT
TROY PENNINGTON
C-31285
RENEWAL DATE 08/31/19
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

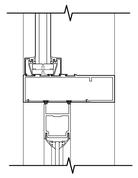
EXTERIOR WALL TYPES

PROJECT NO: 201-0065
DATE: 01.15.2018

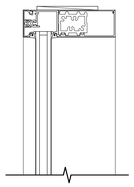
SHEET NO:

A9.20

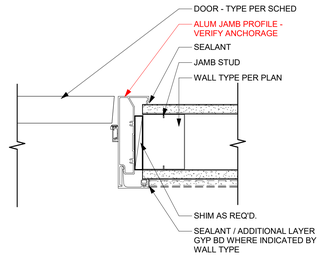
DSA SUBMITTAL II



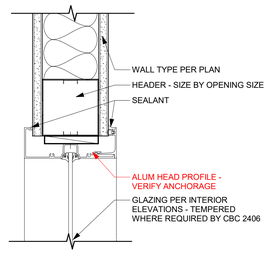
INTERIOR STOREFRONT TYPE 2 TRANSOM
3" = 1'-0" B9



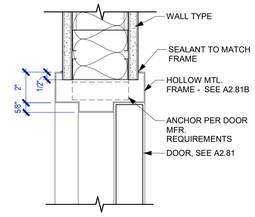
INTERIOR STOREFRONT TYPE 2 HEAD
3" = 1'-0" B7



INTERIOR ALUM DOOR JAMB/HEAD SIM
3" = 1'-0" B5



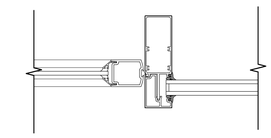
ALUM FRAME JAMB/HEAD SIM
3" = 1'-0" B3



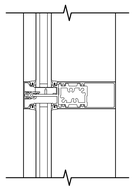
NOTES:

1. FRAME DEPTH TO BE DETERMINED BY OVERALL THICKNESS OF THE WALL IN WHICH THE DOOR IS LOCATED.
2. SEE DOOR SCHEDULE, A2.81 FOR DOOR OPENING SIZE
3. PROVIDE LABELED FRAME & DOOR AT RATED CONDITIONS

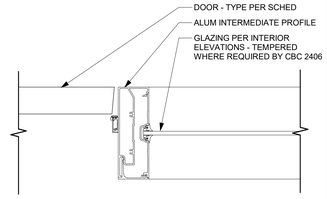
TYP. INT. H.M. DOOR JAMB/HEAD SIM
3" = 1'-0" B1



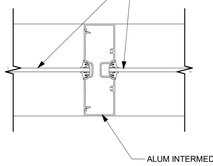
INTERIOR STOREFRONT TYPE 2 DOOR JAMB
3" = 1'-0" D9



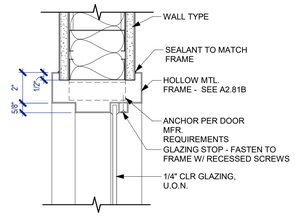
INTERIOR STOREFRONT TYPE 2 HORIZONTAL MULLION
3" = 1'-0" D7



INTERIOR ALUM VERT DOOR JAMB
3" = 1'-0" D5



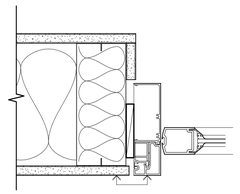
INTERIOR ALUM VERT MULLION
3" = 1'-0" D3



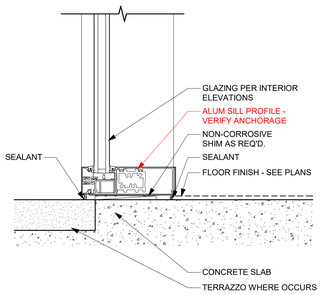
NOTES:

1. FRAME DEPTH TO BE DETERMINED BY OVERALL THICKNESS OF THE WALL IN WHICH THE DOOR IS LOCATED.
2. SEE DOOR SCHEDULE, A2.81 FOR DOOR OPENING SIZE
3. PROVIDE LABELED FRAME & DOOR AT RATED CONDITIONS

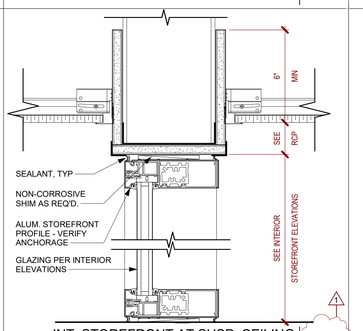
TYP. H.M. SIDELITE JAMB/HEAD SIM
3" = 1'-0" D1



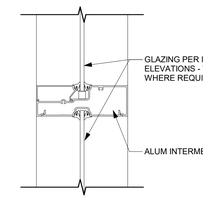
INTERIOR STOREFRONT TYPE 2 DOOR JAMB2
3" = 1'-0" F9



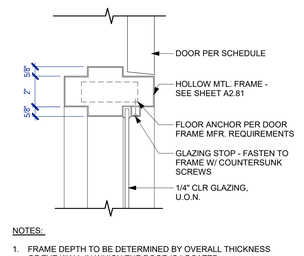
INTERIOR STOREFRONT TYPE 2 SILL
3" = 1'-0" F7



INT. STOREFRONT AT SUSP. CEILING
3" = 1'-0" F5



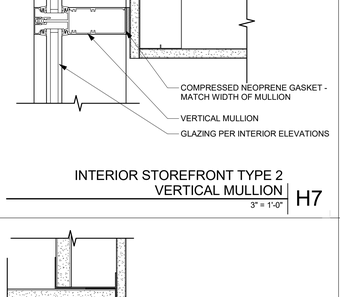
INTERIOR ALUM HORIZ MULLION
3" = 1'-0" F3



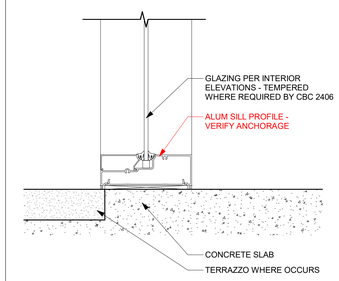
NOTES:

1. FRAME DEPTH TO BE DETERMINED BY OVERALL THICKNESS OF THE WALL IN WHICH THE DOOR IS LOCATED.
2. SEE DOOR SCHEDULE, A2.81 FOR DOOR OPENING SIZE
3. PROVIDE LABELED FRAME & DOOR AT RATED CONDITIONS

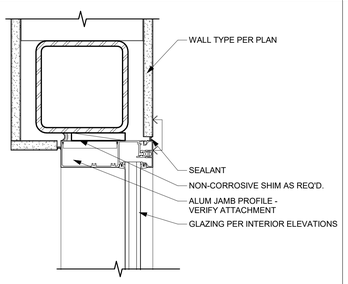
TYP. H.M. SIDELITE MULLION
3" = 1'-0" F1



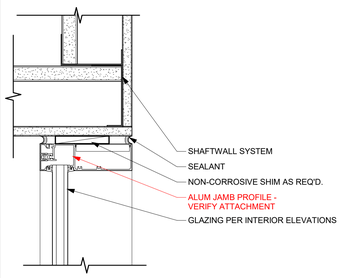
INTERIOR STOREFRONT TYPE 2 VERTICAL MULLION
3" = 1'-0" H7



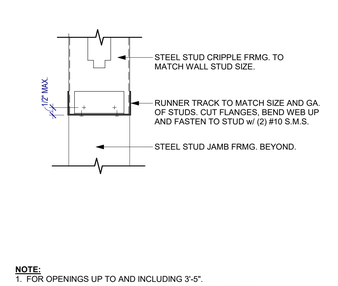
INTERIOR ALUM SILL
3" = 1'-0" H3



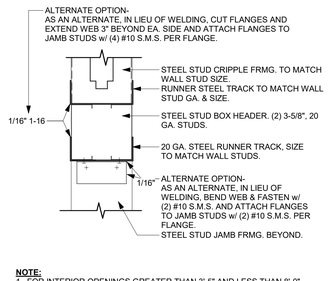
INTERIOR STOREFRONT TYPE 2 JAMB AT HSS COLUMN
3" = 1'-0" K9



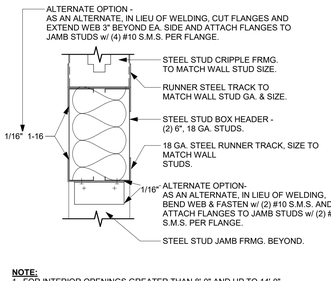
INTERIOR STOREFRONT TYPE 2 JAMB AT SHAFTWALL INTERSECTION
3" = 1'-0" K7



NOTE:
1. FOR OPENINGS UP TO AND INCLUDING 3'-5".
2. FOR USE IN INTERIOR, NON-LOAD BEARING WALLS ONLY.



NOTE:
1. FOR INTERIOR OPENINGS GREATER THAN 3'-5" AND LESS THAN 8'-0".



NOTE:
1. FOR INTERIOR OPENINGS GREATER THAN 8'-0" AND UP TO 14'-0".
2. PROVIDE SOUND BATT INSULATION INSIDE HEADER.

NON-BEARING METAL STUD HEADER
3" = 1'-0" K1

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NO.	ISSUE	DATE
1	ADDENDUM 1	2018-03-30

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
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OFFICE OF REGULATION SERVICES
02-115990
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ARCHITECT'S STAMP APPROVAL

CONSULTANT

INTERIOR DOOR & WINDOW DETAILS

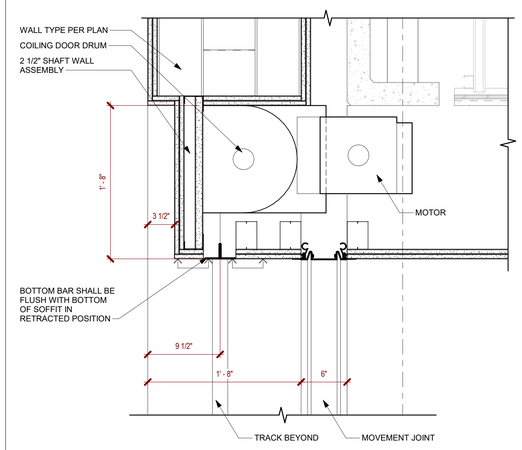
PROJECT NO: 201-0065

DATE: 01.15.2018

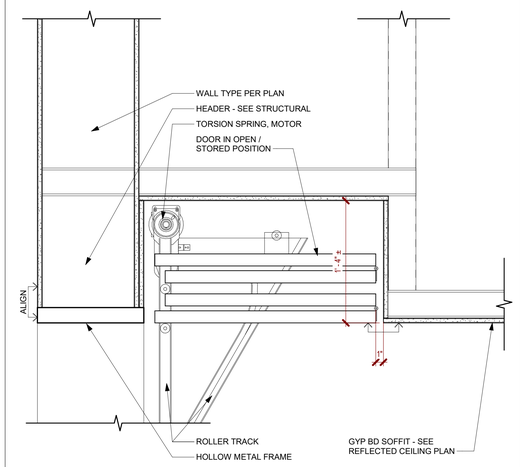
SHEET NO:

A9.53

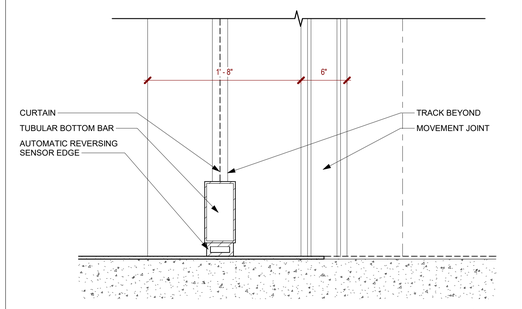
DSA SUBMITTAL II



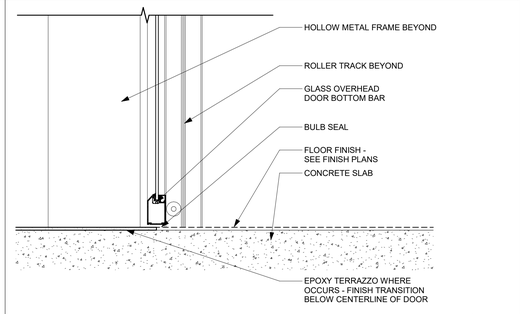
FIRE SHUTTER HEAD 1 1/2" = 1'-0" | C4



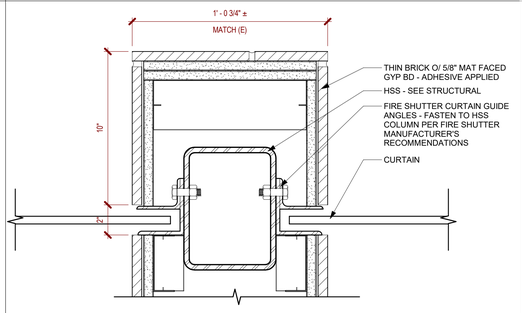
SECTIONAL GLASS DOOR HEAD 1 1/2" = 1'-0" | C1



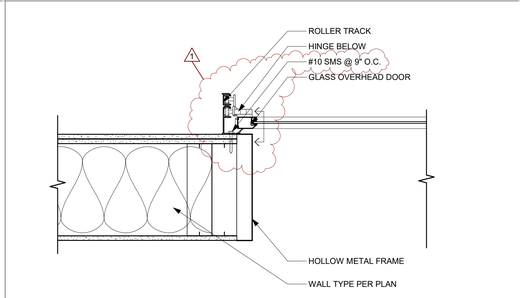
FIRE SHUTTER SILL 1 1/2" = 1'-0" | E6



SECTIONAL GLASS DOOR SILL 1 1/2" = 1'-0" | E1



FIRE SHUTTER JAMB 3" = 1'-0" | G3



SECTIONAL GLASS DOOR JAMB 1 1/2" = 1'-0" | G1

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STATE OF CALIFORNIA

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

COILING / OVERHEAD DOOR DETAILS

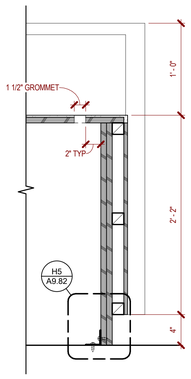
PROJECT NO: 201-0065

DATE: 01.15.2018

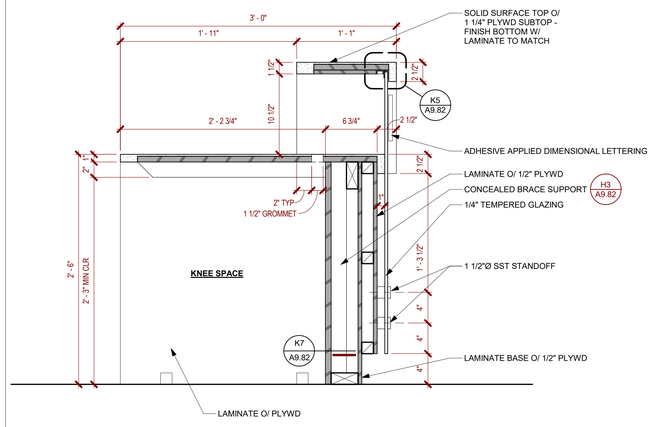
SHEET NO:

A9.54

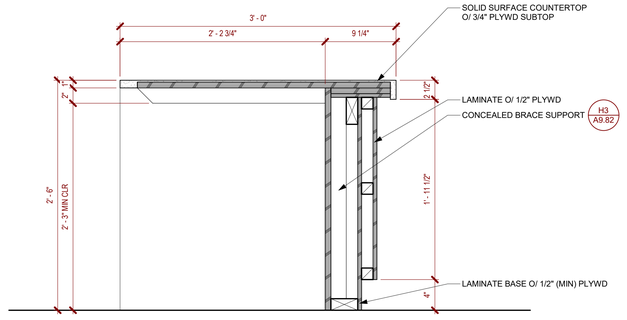
DSA SUBMITTAL II



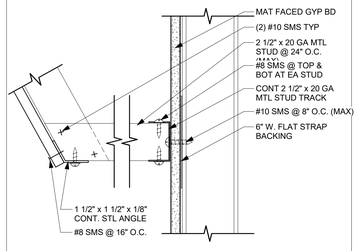
RECEPTION DESK - SECTION 3
1 1/2" = 1'-0" | C9



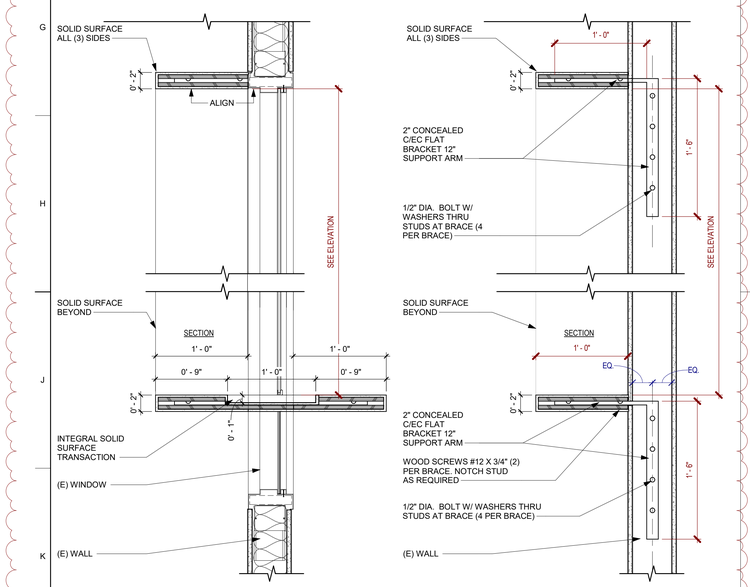
RECEPTION DESK - SECTION 1
1 1/2" = 1'-0" | C5



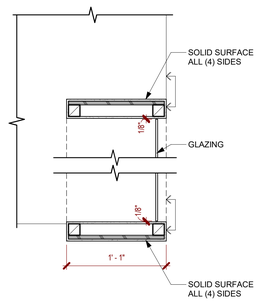
RECEPTION DESK - SECTION 2
1 1/2" = 1'-0" | F5



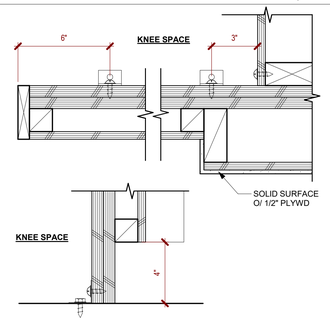
TRACK ATTACHMENT AT SINK CABINET
3" = 1'-0" | F3



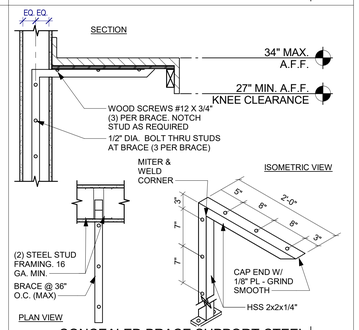
SOLID SURFACE SURROND
1 1/2" = 1'-0" | K9



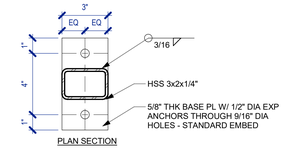
RECEPTION DESK - SECTION 4
1 1/2" = 1'-0" | H7



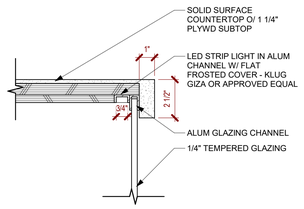
RECEPTION DESK LEG ANCHORAGE
3" = 1'-0" | H5



CONCEALED BRACE SUPPORT-STEEL
1" = 1'-0" | H3



CONCEALED BRACE ANCHORAGE
3" = 1'-0" | K7



RECEPTION DESK - SECTION 4 - Callout 1
3" = 1'-0" | K5

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

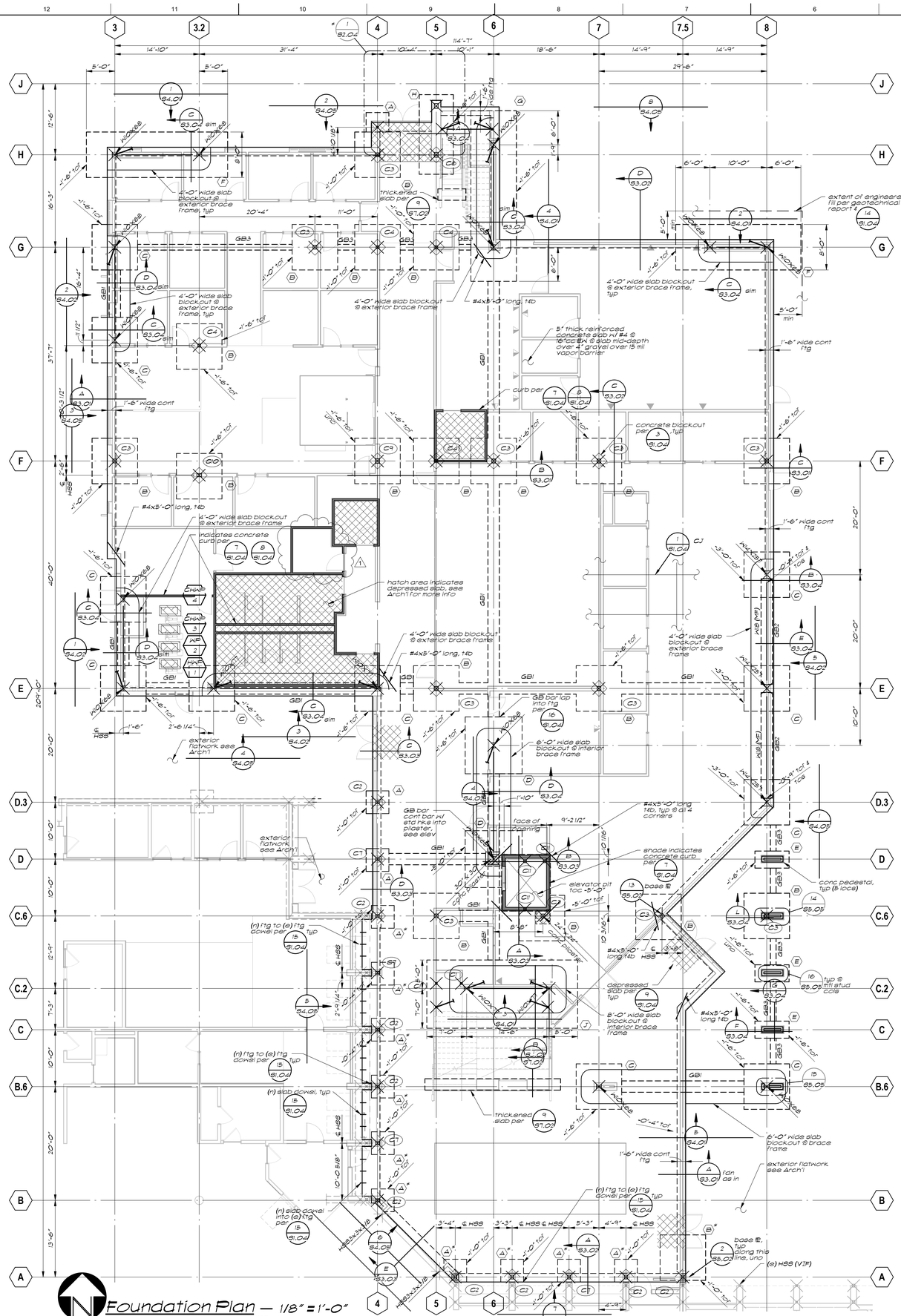
TYPICAL CASEWORK DETAILS

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

A9.82

DSA SUBMITTAL II



Foundation Plan Notes:

1. Site preparation and building pad construction shall be done in accordance with Soils Report # NB1850-31 by Terracon dated May 11, 2018. Bottom of footing excavations shall be reviewed by Geotechnical Engineer prior to placement of reinforcing steel. Foundations shall bear on compacted engineered fill or chemically treated & compacted subgrade soils per the requirements of the Soils Report.
2. Verify all building dimensions and elevations w/ Arch't drawings. Notify the Architect immediately if there are any conflicts w/ dimensions shown.
3. Dimensions shown are to ℄ of column uno.
4. It is the contractor's responsibility to coordinate slab control joints with any architecturally exposed slab areas or the location of tile crack control joints. Verify special condition control joints with Arch't drawings.
5. Provide thickened slab @ base of all stairs per (9 / S1.01)
6. Contractor to coordinate exact dimensions and locations of thickened slabs, housekeeping pads, etc. with all other disciplines' dwg's as well as with the equipment provided prior to commencing work.
7. Slab on grade shall be 5" thick concrete w/ #4 @ 16"cc EW at mid-depth. Concrete shall be installed over 4" clean crushed rock over 15 mil vapor retarder. Top of concrete slab is -0'-0" uno.
8. Contractor shall submit an edge of slab plan to Architect & Structural engineer for review. Submittal shall be dimensioned and located relative to structural grids.
9. Provide 3" min. concrete cover at structural steel and anchor bolts below grade typ.
10. Provide slab on grade control joints (SJ) as indicated per typ @ all interior slabs. Construction joints (CJ) may replace control joints as required. (1 / S1.04)
11. See sheets S1.01 thru S1.08 for General Notes & Typical Details which are applicable to all drawings uno.
12. Elevator guide rail support columns uno shown on plan shall be located in shaft for full height of structure. Coordinate location of columns with elevator mfr. For typical connection of support column to elev structure see (4 / S5.04)
13. Verify elevator pit dimensions w/ elevator manufacturer prior to construction.
14. See Arch't & Civil drawings for all exterior curbs, flatwork, planters, ramps, etc.
15. Continue all reinforcing in continuous footings through spread footings, typ, uno.
16. GB Indicates reference to grade beam schedule, see (B / S2.01)
17. (M1) Indicates reference to footing schedule, see (A / S2.01)
18. Indicates concrete curb. For curbs below non-structural walls, see (7 / S1.04) (8 / S1.04). Verify exact extent w/ Arch't dwgs.
19. Indicates sloped and/or depressed slab. Depress building pad and provide full slab and base thickness. 3" max depression per (9 / S1.04). Contractor to coordinate in field.
20. All depressions, slopes, curbs, etc. are shown for reference only. For exact depths, slopes, extents, etc. see other disciplines' drawings.
21. Temporary loads applied during construction have not been considered in slab on grade design.
22. -1'-6" / 1'-0" Indicates top of footing elevation with respect to reference top of concrete (+0'-0"). The bottom of all footings shall be at least 18" below adjacent minimum prepared building pad elevation (on all sides), typ uno and as shown on sections.
23. Indicates edge of moisture conditioned native soil or engineered fill around entire foundation footprint. Prepare per recommendations of soils report.

Steel

24. (C3) Indicates HSS column & size per (C / S2.01) uno on plan.
25. Indicates Wide Flange column, size per plan & elevation.
26. Indicates steel braced frame, see elevations for additional info.
27. MF Indicates special moment-resisting frame, see elevations.

Metal Studs

28. Anchor bolts at exterior non-shearwalls shall be as indicated on detail (1 / S1.05)
29. Indicates structural metal stud wall. Size & ga per sections. All structural metal stud walls are 6"x18ga uno on plan or sections.
30. Face of concrete @ perimeter of bldg shall be 1/2" outside face of stud, typ uno.
31. * Indicates add alternate items, see Arch't drawings for coordination.

(A / S2.01) Footing Schedule

Mk	Description
(M1)	4'-0"ø x 1'-6" deep footing w/ 8- #5 EW
(A)	8'-0"ø x 2'-0" deep footing w/ 9- #5 EW
(B)	8'-0"ø x 3'-6" deep footing w/ 9- #6 EW, T&B
(C)	10'-0"ø x 3'-6" deep footing w/ 11- #6 EW
(D)	6'-0" x 3'-0" x 1'-6" deep footing w/ 7- #6 EW
(E)	length per plan x 8'-0" wide x 3'-0" deep w/ 9- #7 bars long, #5 T&B @ 12" cc trans, #4 ties @ 12"cc
(F)	30'-0" long x 8'-0" wide x 3'-6" deep w/ 9- #7 bars long long, #5 T&B @ 12" cc trans, #4 ties @ 12"cc
(G)	14'-0" long x 6'-0" wide x 2'-0" deep w/ 7- #7 bars EW, #5 T&B @ 12" cc trans, #4 ties @ 12"cc max
(H) *	18'-0" long x 6'-0" wide x 2'-0" deep w/ 7- #7 bars EW, #5 T&B @ 12" cc trans, #4 ties @ 12"cc max
(J)	26'-6" long x 12'-0" wide x 3'-6" deep w/ 13- #7 T&B bars long, #5 @ 12"cc T&B trans, #4 ties @ 8"cc max

NOTES:
1. * Indicates footing at Add-Alternate Plans

(B / S2.01) Grade Beam Schedule

GB1	24" wide x 24" deep grade beam w/ 4- #6 T&B w/ #4 ties @ 12" cc max, uno on elevations	(D / S3.04)
GB2	24" wide x 30" deep grade beam w/ 6- #6 T&B w/ #4 ties @ 12" cc max, uno on elevations	(E / S3.04)
GB3	12" wide x 12" deep grade beam w/ 2- #5 T&B w/ #3 ties @ 24"cc	(16 / S1.04)

(C / S2.01) Column Schedule

Column Mk	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11
Clock Tower	not used										
Roof		HSS8x6x5/8	HSS8x6x5/8	HSS8x6x1/2	HSS8x6x1/2	HSS10x8x5/8	HSS8x6x1/4	HSS8x6x1/4	HSS10x8x3/8	HSS10x8x5/8	HSS8x6x1/2
2nd Floor											
+0'-0" T&F PT		tof									

(D / S2.01) Mech'l Unit Schedule

Mk	Description	Weight	Remarks	Mounting Location
(SHAD 4)	Pump	400 #	(E / M3.03)	Floor
(SHAD 3)	Pump	400 #	(E / M3.03)	Floor
(MAP 2)	Pump	600 #	(E / M3.03)	Floor
(MAP 1)	Pump	600 #	(E / M3.03)	Floor

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CONSULTANT

REGISTERED PROFESSIONAL ENGINEER
LAWRENCE E. JONES
No. 3138
STRUCTURAL
STATE OF CALIFORNIA

FOUNDATION PLAN

PROJECT NO: 201-0065
DATE: 01.15.2018

SHEET NO:

S2.01

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DSA SUBMITTAL II

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AIR HANDLING UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	COOLING COIL														HEATING COIL												SUPPLY FAN						RETURN FAN					ELECTRICAL				MIN. OSA CFM	DCV MODE OSA CFM	OPERATING WEIGHT LBS.	PREFILTER		PREFILTER CLEAN APD (IN. WG.)
			COOLING CAPACITY (MBH)		AIR ENT COIL		AIR LVG COIL		SIZE HxW	EWT	LWT	GPM	ROWS	FPI	WPD	APD	TCV		HEATING CAPACITY	AIR ENT COIL	AIR LVG COIL	SIZE HxW	EWT	LWT	GPM	ROWS	FPI	WPD	APD	TCV		CFM	TSP	ESP	TYPE	(QTY) BHP	(QTY) HP	CFM	ESP	TYPE	(QTY) BHP	(QTY) HP	MOTOR VOLTS	MOTOR PH	MOTOR HZ	CONTROL / LIGHTS VOLTS				EFF %	FA SF	
			TOTAL	SENSIBLE	DB°F	WB°F	DB°F	WB°F									TYPE	CV	MBH	DB°F	DB°F									TYPE	CV																		
AHU 1	ENERGY LABS	C78102 -FCH-L	760.2	520.4	80	67	53.2	53.1	34.5x87	45.0	55.0	151.9	6	12	4.59	0.992	2-WAY	76	679.7	40.0	75.0	34.5x87	180	160	67.82	1	8	3.67	0.082	2-WAY	34	18,000	4.5	2.13	DIRECT DRIVE	(4) 4.74	(4) 5.0	17,000	1.6	DIRECT DRIVE	(4) 1.92	(4) 3.0	208	3	60	120	2400	3600	20,000	30%	38.0	0.50
AHU 2	ENERGY LABS	C6478 -FCH-L	498.3	343.2	80	67	53.5	53.4	58.5x63	45.0	55.0	99.6	6	12	7.18	1.097	2-WAY	50	500.3	40.0	75.0	58.5x63	180	160	50.03	1	10	3.18	0.112	2-WAY	25	12,000	4.5	1.98	DIRECT DRIVE	(2) 6.39	(2) 7.5	11,000	1.75	DIRECT DRIVE	(2) 3.0	(2) 5.0	208	3	60	120	2200	3300	13,000	30%	23.8	0.50

PROVIDE:

1. "MASON" RSC SERIES, SLOPE TO MATCH ROOF SLOPE, 3" DEFELCTION SPRING ISOLATION (OPA-207) CURB REFER TO DETAIL A/M9.01 FOR ADDITIONAL REQUIREMENTS FOR THE CURB
2. REFER TO UNIT SPECIFICATIONS SECTION FOR ACCESSORIES, CONTROLS, AND COMPLETE DESCRIPTION OF UNITS WITH FULL PERIMETER CURB AROUND PIPING VESTIBULES.
3. FACTORY MOUNTED SUPPLY AND RETURN FAN VFD WITH MANUAL BY-PASS
4. SUPPLY AIR DUCT MOUNTED SMOKE DETECTOR FOR AUTOMATIC SHUT-DOWN UPON DETECTION OF PRODUCTS OF COMBUSTION, PROVIDED BY FIRE ALARM CONTRACTOR (SEE FA0.01)
5. FACTORY MOUNTED DISCONNECT
6. 208 VOLT, 3 PHASE - SINGLE POINT POWER CONNECTION
7. 120 VOLT POWER FOR LIGHTING & CONTROLS
8. PROVIDE CONDITIONED ENCLOSURE FOR VFD AND TEMPERATURE CONTROL PANELS - SEE A/M9.05 & B/M9.05
9. PROVIDE MERV-13 DISPOSABLE PRE-FILTERS
10. SEE CONTROL DIAGRAMS FOR ALL AIR FLOW MONITORING STATIONS, DEFERENTIAL PRESSURE SWITCHES, FILTER MONITORING. PROVIDE ADEQUATE CLEARANCE FOR INSTALLATION OF ALL DEVICES.
11. VFD AND TCP (CONTROL PANEL) ENCLOSURES ARE CONDITIONED SPACES AND HAVE SEALED RACE WAYS AND CONDUITS BACK TO ALL DEVISES WITHIN UNIT.
12. PIPING VESTIBULES MUST BE CONSTRUCTED SUBSTANTIAL ENOUGH TO SUPPORT THE CONTRACTOR PROVIDED PIPE SUPPORTS.
13. PROVIDE - FACTORY MOUNTED EBTRON FLOW STATION

CONDENSING UNIT SCHEDULE

SYMBOL	SERVES	MANUFACTURER	MODEL	NOMINAL TONS	TOTAL COOLING MBH	AMBIENT TEMP	SEER	RLA	MCA	MOCP	MAX FUSE (AMPS)	VOLT/PH	WEIGHT	REMARKS
CU 1	ELEVATOR MACHINE ROOM	DAIKIN	RXS18LVJU	1.5	17.2	104	20.3	5.9	13.8	20	20	208/230 1PH	150	R-410A REFRIGERANT
CU 2	IDF 137	DAIKIN	RXS24LVJU	2.0	21.5	104	20.0	12.9	17.1	20	20	208/230 1PH	150	R-410A REFRIGERANT
CU 3	MPOE 204	DAIKIN	RXS36LVJU	3.0	33.2	104	15.9	18.3	17.1	20	20	208/230 1PH	150	R-410A REFRIGERANT
CU 4	IDF 2ND FL	DAIKIN	RXS24LVJU	2.0	21.5	104	20.0	12.9	17.1	20	20	208/230 1PH	150	R-410A REFRIGERANT

GENERAL NOTE:
LOCK-OUT THE HEATING MODE OF HEAT-PUMP TO OPERATE THE UNIT AS COOLING ONLY UNIT

FAN COIL SCHEDULE (INDOOR UNIT)

SYMBOL	SERVES	MANUFACTURER	MODEL	CFM	COOLING				MOTOR				OPERATING WEIGHT LBS.	REMARKS
					EAT °F	LAT °F	TOTAL MBH	SENSIBLE MBH	VOLT	PH	HZ	MCA		
FC 1	ELEVATOR MACHINE ROOM	DAIKIN	FTXS-18LVJU	385	80/67	55	17.2	14.7	208/230	1	60	SEE NOTE # 1	35	1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT 2. WALL MOUNTED CONFIGURATION 3. CONDENSATE PUMP
FC 2	IDF 137	DAIKIN	FTXS-24LVJU	643	80/67	55	21.5	16.8	208/230	1	60	SEE NOTE # 1	40	1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT 2. WALL MOUNTED CONFIGURATION 3. CONDENSATE PUMP
FC 3	MPOE 204	DAIKIN	FTXS-36LVJU	915	80/67	55	33.2	23.9	208/230	1	60	SEE NOTE # 1	40	1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT 2. WALL MOUNTED CONFIGURATION 3. CONDENSATE PUMP
FC 4	IDF 2ND FL	DAIKIN	FTXS-24LVJU	643	80/67	55	21.5	16.8	208/230	1	60	SEE NOTE # 1	40	1. INDOOR UNIT RECEIVES POWER FROM OUTDOOR UNIT 2. WALL MOUNTED CONFIGURATION 3. CONDENSATE PUMP

GENERAL NOTE:
LOCK-OUT THE HEATING MODE OF HEAT-PUMP TO OPERATE THE UNIT AS COOLING ONLY UNIT

PUMP SCHEDULE

SYMBOL	MANUFACTURER	MODEL	PUMP TYPE	GPM	TOTAL HEAD FT WATER	MOTOR					RPM	OPERATING WEIGHT LBS.	REMARKS
						BHP	HP	VOLTS	PH	HZ			
HWP 1	BELL & GOSSETT	SERIES e-1510 2.5BB	CENTRIFUGAL BASE MOUNTED	220	50	3.85	5	208	3	60	1800	400	HEATING WATER PUMP WITH VFD WITH ELECTRO-MECHANICAL BYPASS
HWP 2	BELL & GOSSETT	SERIES e-1510 2.5BB	CENTRIFUGAL BASE MOUNTED	220	50	3.85	5	208	3	60	1800	400	HEATING WATER PUMP WITH VFD WITH ELECTRO-MECHANICAL BYPASS
CHWP 3	BELL & GOSSETT	SERIES e-1510 4BD	CENTRIFUGAL BASE MOUNTED	590	55	9.69	15	208	3	60	1800	600	HEATING WATER PUMP WITH VFD WITH ELECTRO-MECHANICAL BYPASS
CHWP 4	BELL & GOSSETT	SERIES e-1510 4BD	CENTRIFUGAL BASE MOUNTED	590	55	9.69	15	208	3	60	1800	600	HEATING WATER PUMP WITH VFD WITH ELECTRO-MECHANICAL BYPASS

ROOF EXHAUST FAN SCHEDULE

SYMBOL	MANUFACTURER	MODEL	CAPCAITY CFM	BALANCE CFM	ESP	SONES (MAX.)	FAN TYPE	DRIVE	FAN		MOTOR				OPERATING WEIGHT LBS.	REMARKS
									RPM	BHP	HP	VOLTS	PH	HZ		
REF 1	"GREENHECK"	GB-141	1750	1390	0.625	10.7	CENTRIFUGAL ROOF EXHAUST	BELT	1256	0.56	1	208	3	60	150 LBS	PROVIDE CURB, AND BACKDRAFT DAMPER, ROOF CURB. INTERLOCK W/ AHU-1
REF 2	"GREENHECK"	G-097-VG	250	150	0.625	10.1	CENTRIFUGAL ROOF EXHAUST	DIRECT	1725	0.13	1/4	120	1	60	125 LBS	PROVIDE CURB, AND BACKDRAFT DAMPER, ROOF CURB. INTERLOCK W/ AHU-1. ECM MOTOR FOR T-24 COMPLIANCE

VFD SCHEDULE

SYMBOL	SERVES	MANUFACTURER	MODEL	ELECTRICAL			AMPS	OPERATING WEIGHT LBS.	MOUNTING DETAIL	REMARKS
				VOLTS	HP	PHASES				
VFD 1	HWP - 1	ABB	ACH550-VCR	208	5	3	16.7	75	F M9.03	PROVIDE BACNET MSTP INTERFACE, ELECTRO-MECHANICAL BYPASS
VFD 2	HWP - 2	ABB	ACH550-VCR	208	5	3	16.7	75	F M9.03	PROVIDE BACNET MSTP INTERFACE, ELECTRO-MECHANICAL BYPASS
VFD 3	CHWP - 3	ABB	ACH550-VCR	208	15	3	46.2	130	F M9.03	PROVIDE BACNET MSTP INTERFACE, ELECTRO-MECHANICAL BYPASS
VFD 4	CHWP - 4	ABB	ACH550-VCR	208	15	3	46.2	130	F M9.03	PROVIDE BACNET MSTP INTERFACE, ELECTRO-MECHANICAL BYPASS

AIR AND DIRT SEPARATOR SCHEDULE

SYMBOL	MANUFACTURER	MODEL	SYSTEM	SIZE	FLOW GPM	WEIGHT	REMARK
AS 1	SPIROTHERM	VDN-400-FA	HEATING HOT WATER	4"	220 GPM & 1.8 FT HD	250 LBS.	REMOVABLE LOWER HEAD FOR CLEANING
AS 2	SPIROTHERM	VDN-600-FA	CHILLED WATER	6"	590 GPM & 1.2 FT HD	375 LBS.	REMOVABLE LOWER HEAD FOR CLEANING

AHU-1 VAV BOX SCHEDULE

VAV 1-__	MANUF.	MODEL	SERVED BY	INLET SIZE	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	MAX APD (IN.WG.)	HOT WATER REHEAT COIL								OPERATING WEIGHT LBS.	REMARKS
									MBH	GPM	COIL ROWS	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	VALVE TYPE	CV	
1-1	TITUS	DESV	AHU-1	14	1200	600	360	0.3	17.2	1.2	2	55	81.5	180	150	2-WAY	0.5	81	1, 2, 3
1-2	TITUS	DESV	AHU-1	14	1125	550	340	0.3	16.3	1.1	2	55	82.4	180	150	2-WAY	0.5	81	1, 2, 3
1-3	TITUS	DESV	AHU-1	6	150	75	60	0.3	2.9	0.2	2	55	83.1	180	150	2-WAY	0.1	43	1, 2, 3
1-4	TITUS	DESV	AHU-1	6	260	130	80	0.3	3.3	0.3	2	55	78.4	180	150	2-WAY	0.1	43	1, 2, 3
1-5	TITUS	DESV	AHU-1	6	195	75	60	0.3	2.5	0.2	2	55	79.3	180	150	2-WAY	0.1	43	1, 2, 3
1-6	TITUS	DESV	AHU-1	8	330	130	100	0.3	4.5	0.3	2	55	76.1	180	150	2-WAY	0.2	47	1, 2, 3
1-7	TITUS	DESV	AHU-1	12	945	470	285	0.3	10.2	0.7	2	55	74.2	180	150	2-WAY	0.2	62	1, 2, 3
1-8	TITUS	DESV	AHU-1	12	945	470	285	0.3	10.2	0.7	2	55	74.2	180	150	2-WAY	0.2	62	1, 2, 3
1-9	TITUS	DESV	AHU-1	12	880	440	265	0.3	17.2	1.2	2	55	88.3	180	150	2-WAY	0.5	62	1, 2, 3
1-10	TITUS	DESV	AHU-1	10	660	330	200	0.3	9.3	0.62	2	55	79.3	180	150	2-WAY	0.3	53	1, 2, 3
1-11	TITUS	DESV	AHU-1	6	285 (1)	140	90	0.3	3.4	0.3	2	55	77.9	180	150	2-WAY	0.1	43	1, 2, 3
1-12	TITUS	DESV	AHU-1	8	400	200	120	0.3	4.6	0.4	2	55	76.1	180	150	2-WAY	0.1	47	1, 2, 3
1-13	TITUS	DESV	AHU-1	12	1100	550	330	0.3	19.4	1.3	2	55	85.1	180	150	2-WAY	0.5	62	1, 2, 3
1-14	TITUS	DESV	AHU-1	10	600	300	180	0.3	13.3	0.9	2	55	94.7	180	150	3-WAY	1.0	53	1, 2, 3
1-15	TITUS	DESV	AHU-1	10	660	400	200	0.3	8.9	0.6	2	55	74.3	180	150	2-WAY	0.2	53	1, 2, 3
1-16	TITUS	DESV	AHU-1	6	250	125	75	0.3	4.9	0.4	2	55	91.2	180	150	2-WAY	0.2	43	1, 2, 3
1-17	TITUS	DESV	AHU-1	6	275	135	90	0.3	4.5	0.4	2	55	86.3	180	150	2-WAY	0.2	43	1, 2, 3
1-18	TITUS	DESV	AHU-1	6	200	100	60	0.3	3.9	0.3	2	55	85.8	180	150	2-WAY	0.1	43	1, 2, 3
1-19	TITUS	DESV	AHU-1	8	450	225	135	0.3	5.0	0.4	2	55	75.7	180	150	2-WAY	0.1	47	1, 2, 3
1-20	TITUS	DESV	AHU-1	12	990	495	490	0.3	14.2	0.95	2	55	75.9	180	150	2-WAY	0.4	62	1, 2, 3
1-21	TITUS	DESV	AHU-1	6	175	80	55	0.3	1.9	0.2	2	55	77.8	180	150	2-WAY	0.1	43	1, 2, 3
1-22	TITUS	DESV	AHU-1	6	100	50	30	0.3	1.9	0.2	2	55	84.9	180	150	2-WAY	0.1	43	1, 2, 3
1-23	TITUS	DESV	AHU-1	8	480	330	480	0.3	8.2	0.6	2	55	76.7	180	150	3-WAY	0.2	47	1, 2, 3
1-24	TITUS	DESV	AHU-1	16	1765	880	570	0.3	38.6	2.6	2	55	91.1	180	150	2-WAY	1.2	88	1, 2, 3
1-25	TITUS	DESV	AHU-1	14	1200	680	360	0.3	20.0	1.4	2	55	82.2	180	150	2-WAY	0.4	81	1, 2, 3
1-26	TITUS	DESV	AHU-1	10	570	N/A	175	0.3	-	-	-	-	-	-	-	-	-	53	1, 3

NOTE:
1. PROVIDE CONTROL MODULE FOR BMS (HONEYWELL CONTROLS). SEE PLANS FOR LEFT/RIGHT SIDE (FIELD VERIFY).
2. PROVIDE ACCESS PANEL FOR RE-HEAT COILS.
3. CROSS-FLOW SENSORS (CONTROLS BY HONEYWELL, FIELD INSTALLED).

AHU-2 VAV BOX SCHEDULE

VAV 2-__	MANUF.	MODEL	SERVED BY	INLET SIZE	MAX. COOLING CFM	MAX. HEATING CFM	MIN. CFM	MAX APD (IN.WG.)	HOT WATER REHEAT COIL								OPERATING WEIGHT LBS.	REMARKS
									MBH	GPM	COIL ROWS	EAT (°F)	LAT (°F)	EWT (°F)	LWT (°F)	VALVE TYPE	CV	
2-1	TITUS	DESV	AHU-2	6	120	60	35	0.35	2.5	0.2	2	55	86.9	180	150	2-WAY	0.1	43	1, 2, 3
2-2	TITUS	DESV	AHU-2	8	350	175	90	0.35	6.3	0.5	2	55	88.4	180	150	2-WAY	0.2	47	1, 2, 3
2-3	TITUS	DESV	AHU-2	6	260	130	110	0.35	4.1	0.3	2	55	76.7	180	150	2-WAY	0.1	43	1, 2, 3
2-4	TITUS	DESV	AHU-2	10	430	215	140	0.35	5.7	0.4	2	55	76.6	180	150	2-WAY	0.2	53	1, 2, 3
2-5	TITUS	DESV	AHU-2	10	545	270	140	0.35	10.3	0.7	2	55	82.3	180	150	2-WAY	0.3	53	1, 2, 3
2-6	TITUS	DESV	AHU-2	12	900	450	380	0.35	12.3	0.82	2	55	76.1	180	150	2-WAY	0.3	62	1, 2, 3
2-7	TITUS	DESV	AHU-2	8	350	350	350	0.35	9.8	0.65	2	55	73.7	180	150	2-WAY	0.3	47	1, 2, 3
2-8	TITUS	DESV	AHU-2	8	330	165	90	0.35	6.3	0.5	2	55	90.7	180	150	2-WAY	0.3	47	1, 2, 3
2-9	TITUS	DESV	AHU-2	6	285	140	80	0.35	6.2	0.42	2	55	85.1	180	150	2-WAY	0.2	43	1, 2, 3
2-10	TITUS	DESV	AHU-2	8	450	225	130	0.35	10.8	0.73	2	55	95.4	180	150	2-WAY	0.3	47	1, 2, 3
2-11	TITUS	DESV	AHU-2	12	1050	530	315	0.35	25.5	1.6	2	55	95.9	180	150	2-WAY	0.8	62	1, 2, 3
2-12	TITUS	DESV	AHU-2	12	1080	540	300	0.35	13.8	0.92	2	55	76.5	180	150	2-WAY	0.3	62	1, 2, 3
2-13	TITUS	DESV	AHU-2	10	560	280	165	0.35	10.1	0.81	2	55	76.3	180	150	2-WAY	0.2	53	1, 2, 3
2-14	TITUS	DESV	AHU-2	12	790	395	225	0.35	10.7	0.72	2	55	73.5	180	150	2-WAY	0.2	62	1, 2, 3
2-15	TITUS	DESV	AHU-2	8	420	210	130	0.35	5.4	0.4	2	55	78.8	180	150	2-WAY	0.2	47	1, 2, 3
2-16	TITUS	DESV	AHU-2	10	810	400	230	0.35	12.5	0.9	2	55	83.8	180	150	2-WAY	0.4	53	1, 2, 3
2-17	TITUS	DESV	AHU-2	12	1080	540	300	0.35	17.1	1.2	2	55	78.7	180	150	2-WAY	0.4	62	1, 2, 3
2-18	TITUS	DESV	AHU-2	10	530	260	140	0.35	5.7	0.4	2	55	75.3	180	150	2-WAY	0.2	53	1, 2, 3
2-19	TITUS	DESV	AHU-2	6	200	100	60	0.35	4.0	0.3	2	55	86.6	180	150	2-WAY	0.1	43	1, 2, 3
2-20	TITUS	DESV	AHU-2	10	645	320	180	0.35	9.7	0.7	2	55	81.2	180	150	2-WAY	0.3	53	1, 2, 3
2-21	TITUS	DESV	AHU-2	14	1200	600	325	0.35	15.7	1.1	2	55	79.2	180	150	2-WAY	0.5	81	1, 2, 3
2-22	TITUS	DESV	AHU-2	10	720	360	220	0.35	10.6	0.72	2	55	78.2	180	150	2-WAY	0.3	53	1, 2, 3

NOTE:
1. PROVIDE CONTROL MODULE FOR BMS (HONEYWELL CONTROLS). SEE PLANS FOR LEFT/RIGHT SIDE (FIELD VERIFY).
2. PROVIDE ACCESS PANEL FOR RE-HEAT COILS.
3. CROSS-FLOW SENSORS (CONTROLS BY HONEYWELL, FIELD INSTALLED).

LPAS

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM #1	3/30/18

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990

AC_____ FLS_____ SS_____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

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MECHANICAL NOTES, LEGEND & SCHEDULES

PROJECT NO: 201-0065

DATE: 01.19.2018

SHEET NO:

M0.02

DSA RESUBMITTAL II

SHEET NOTES (CONTINUOUS):

(13) WHERE NEW PIPING CROSSING EXISTING PIPING (EXISTING DEPTH UNKOWN) CONTRACTOR IS REQUIRED TO INVESITAGE AND FIELD VERIFY EXISTING DEPTH. NEW PIPING WILL REQUIRE TO BE ROUTED UNDER EXISTING PIPING. CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE OFFSET TO NEW PIPING AS NECESSARY TO ROUTE UNDER EXISTING PIPING

(14) CONTRACTOR WILL COORDINATE WITH CAMPUS AND DISTRICT PERSONAL FOR NEW HYDRONIC PIPING FLUSHING PRIOR TO CONNECTING TO EXISTING PIPING. DISTRICT REQUIRES SUPERVISED FLUSHING OF HYDRONIC SYSTEM PRIOR TO CONNECTION TO PLANT LOOP.
CONTRACTOR SHALL BE REPONSIBLE TO PROVIDE NECESSARY TEMPORARY PIPING, PUMPING AND VALVES TO FLUSH THE HYDRONICS PIPING

(15) GAS PIPING IN JOINT TRENCH AND THEREFORE SHOWN HERE FOR REFERENCE. REFER TO P1.01 FOR ANY ADDITIONAL INFORMATION

SHEET NOTES (CONTINUOUS):

(8) FOR TYPICAL TRENCH REQUIREMENTS SEE G/M1.02

(9) NOT USED

(10) NOT USED

(11) NOT USED

(12) NOT USED

(12A) NOT USED (1)

SHEET NOTES:

(1) TIE (N) HEATING HOT WATER (HWS & HWR) LINES AT LOCATION SHOWN. VERIFY IN FIELD THE EXACT LOCATION PRIOR TO BID

(2) TIE (N) CHILLED WATER (CHWS & CHWR) LINES AT LOCATION SHOWN. VERIFY IN FIELD THE EXACT LOCATION PRIOR TO BID

(3) SHUT-OFF VALVE VAULT # 1. SEE A/M1.03 DETAIL

(4) NOT USED (1)

(5) SHUT-OFF VALVE VAULT # 2. SEE B/M1.03 DETAIL

(6) SHUT-OFF VALVE VAULT # 3. SEE B/M1.03 DETAIL

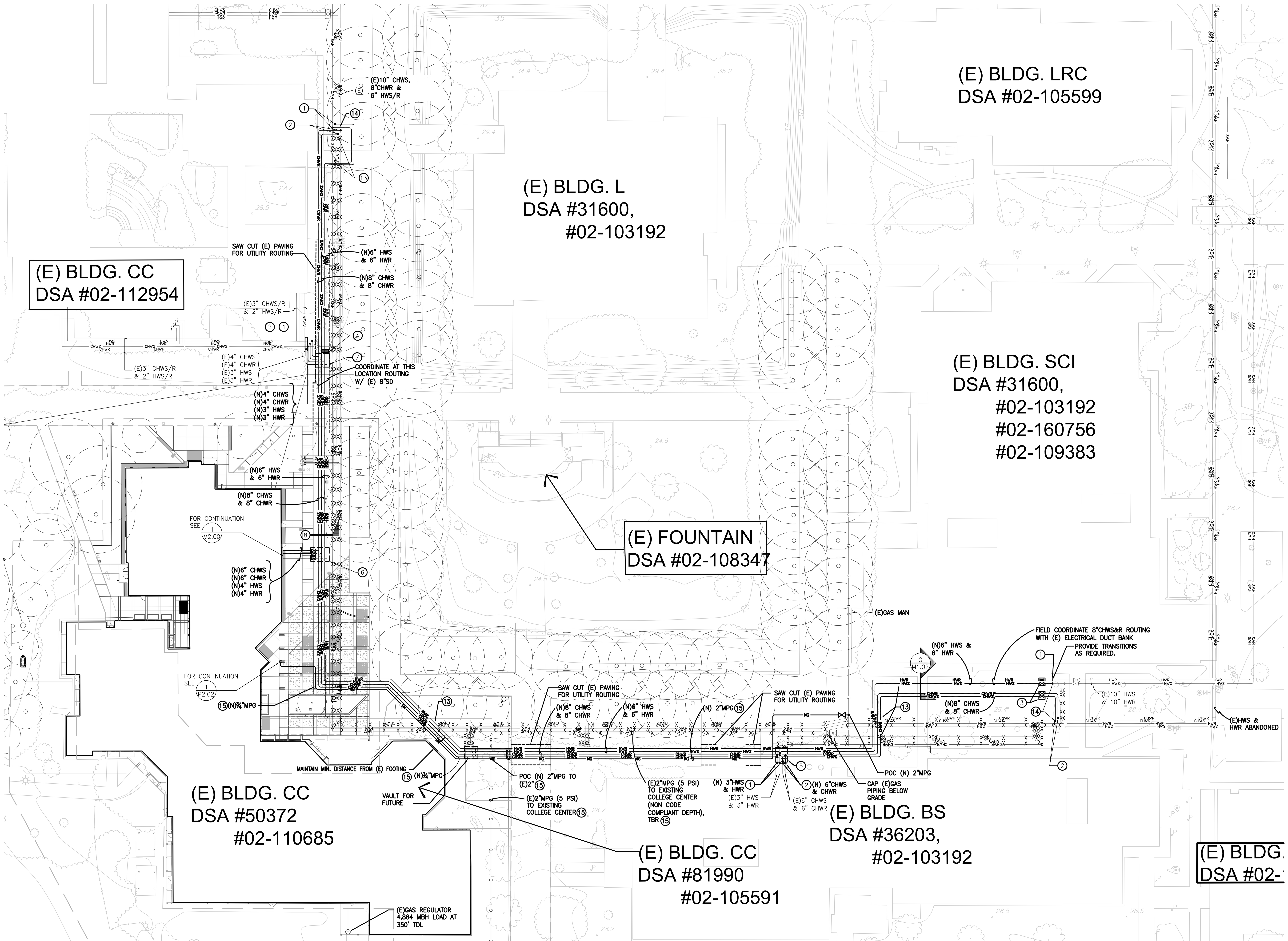
(7) SHUT-OFF VALVE VAULT # 4. SEE B/M1.03 DETAIL

GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO WALK SITE PRIOR TO BID FOR EXACT POINT OF CONNECTIONS TO (E) SYSTEMS (PIPING). HYDRONIC ROUTE TO BE FIELD VERIFIED WITH CAMPUS REPRESENTATIVE & LANDSCAPE ARCHITECT PRIOR TO TRENCHING
2. COORDINATE WITH ARCHITECTURAL AND LANDSCAPE PLAN FOR PATCHING, REPAIRING (TO MATCH EXISTING) OR PROVIDING (N) LANDSCAPE AND OR SIDEWALK WHERE TRENCHING IS REQUIRED FOR ROUTING NEW UNDERGROUND PIPING.
3. COORDINATE WITH LANDSCAPE PLAN TO PROTECT EXISTING TREES AND MAINTAINING DISTANCE REQUIREMENTS TO (E) TREES (ENCROACHMENT ON TREE DRIPLINE) AND OR LANDSCAPE.
4. THE PIPING LAYOUT IS SCHEMATIC, NOT SHOWING ALL OFFSETS, (D) AND (R) TO AVOID (E) UTILITIES UNDERGROUND.
5. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO ANY EXCAVATION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES CAUSED BY HIS WORK AT NO ADDITIONAL COST TO THE OWNER.
6. BASIS OF DESIGN FOR HYDRONIC PIPING UNDERGROUND IS "AQUATHERM" BLUE PIPE SDR-17.6 FOR CHILLED & SDR-11 FOR HEATING HOT WATER. KNOW EQUAL: NIRON PIPING BY "NUPI AMERICAS" (1)
7. FOR GENERAL BURRIED PIPE DETAIL REFER TO C/M1.02 E/M1.02 (1)

PIPING LEGEND

(E) HEATING HOT WATER PIPING (HWS & HWR) TO BE ABANDONED IN PLACE.	HWS / HWR (crossed)
(E) CHILLED WATER PIPING (CHWS & CHWR) TO BE ABANDONED IN PLACE	CHWS / CHWR (crossed)
(N) CHILLED WATER PIPING (CHWS & CHWR)	CHWS / CHWR
(N) HOT WATER PIPING (HWS & HWR)	HWS / HWR
(E) MEDIUM PRESSURE GAS PIPING TO BE ABANDONED IN PLACE	G (crossed)
(N) MEDIUM PRESSURE GAS PIPING	MG



A MECHANICAL NEW SITE PLAN
SCALE: 1" = 30'-0"

LPAS

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916 443 0335 lpasdesign.com Architecture + Design

COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM # 1	03/30/18

ARCHITECT'S STAMP — TROY PENNINGTON C-31285 — STATE OF CALIFORNIA

APPROVAL — IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02-115990 AC___ FLS___ SS___ DATE___

CONSULTANT

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.

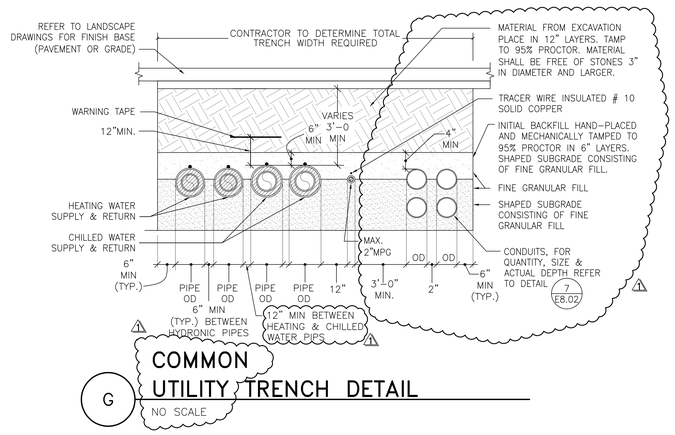
MECHANICAL NEW SITE PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

M1.01

DSA RESUBMITTAL II



G COMMON UTILITY TRENCH DETAIL

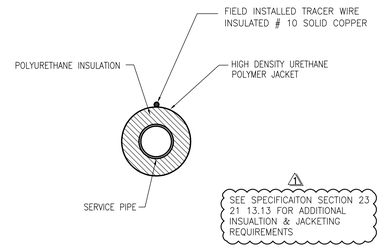
NO SCALE

H NOT USED

NO SCALE

D NOT USED

NO SCALE



E CROSS SECTION TABULATION

NO SCALE

F NOT USED

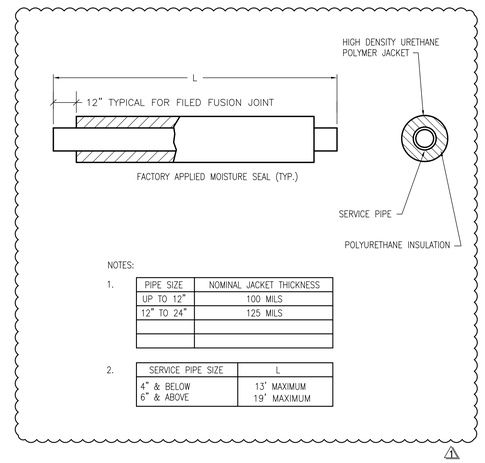
NO SCALE

A NOT USED

NO SCALE

B NOT USED

NO SCALE



NOTES:

1.

PIPE SIZE	NOMINAL JACKET THICKNESS
UP TO 12"	100 MILS
12" TO 24"	125 MILS

2.

SERVICE PIPE SIZE	L
4" & BELOW	13' MAXIMUM
6" & ABOVE	19' MAXIMUM

C PIPE STRAIGHT LENGTH

NO SCALE

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM # 1	03/30/18

REGISTERED ARCHITECT TROY PENNINGTON C-31285 6-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS____ SS____
DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

TURLEY & ASSOCIATES | MECHANICAL ENGINEERING GROUP, INC.
2431 Capitol Avenue (916) 325-1065
Sacramento, CA 95816 FAX: (916) 325-1066
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	15247
Project Manager:	RS	Plot Date: Apr 03, 2018 - 9:57am	
Project Drafter:	DC	Login: NEhah	

REGISTERED PROFESSIONAL ENGINEER BRYAN J. PROSPERO No. M030446 Exp. 12/31/19 MECHANICAL STATE OF CALIFORNIA

MECHANICAL SITE DETAILS

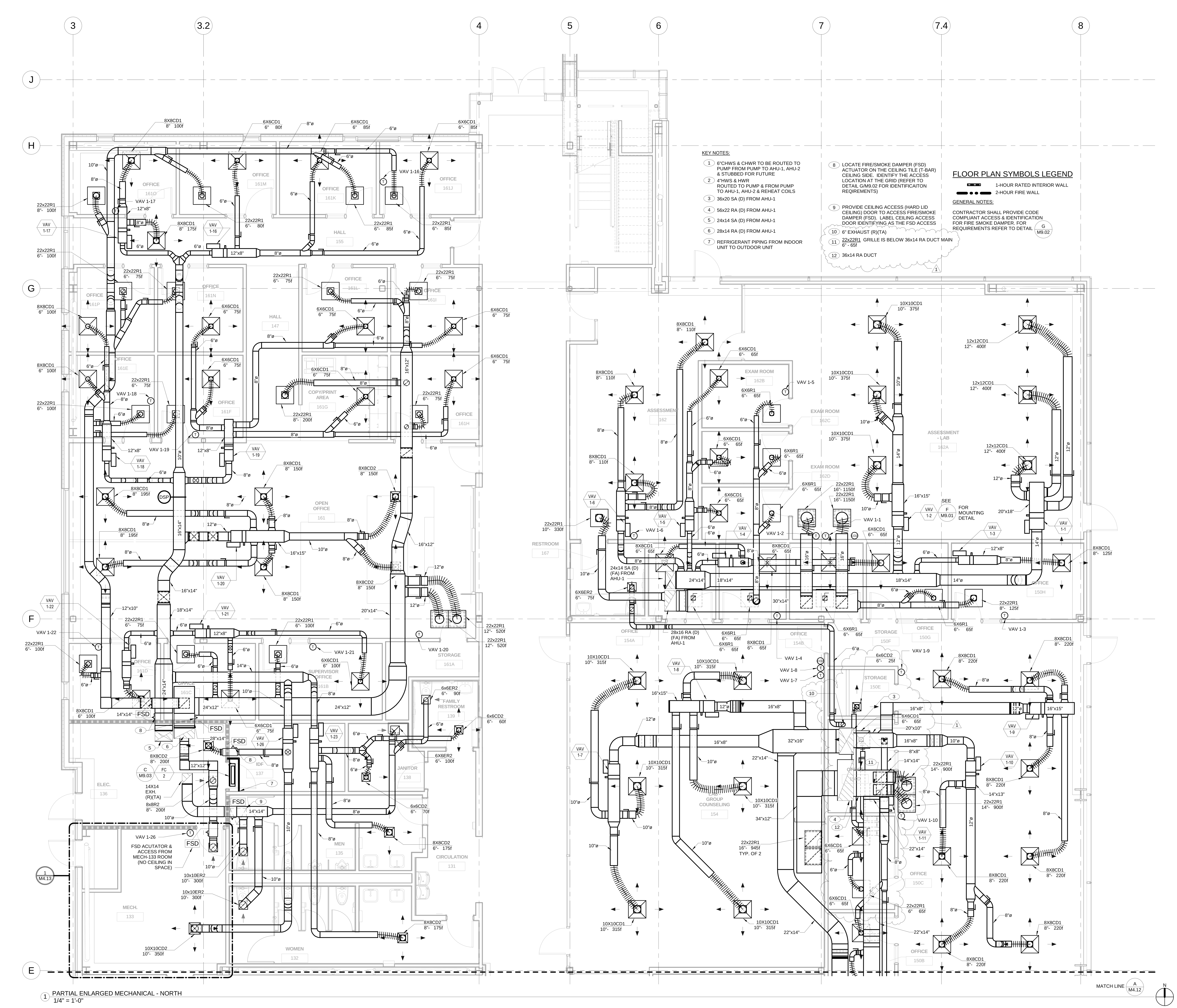
PROJECT NO: 201-0065

DATE: 01.19.2018

SHEET NO:

M1.02

DSA RESUBMITTAL II



1 PARTIAL ENLARGED MECHANICAL - NORTH
1/4" = 1'-0"

MATCH LINE A/M4.12

KEY NOTES:

1. 6"CHWS & CHWR TO BE ROUTED TO PUMP FROM PUMP TO AHU-1, AHU-2 & STUBBED FOR FUTURE
2. 4"HWS & HWR ROUTED TO PUMP & FROM PUMP TO AHU-1, AHU-2 & REHEAT COILS
3. 36x20 SA (D) FROM AHU-1
4. 56x22 RA (D) FROM AHU-1
5. 24x14 SA (D) FROM AHU-1
6. 28x14 RA (D) FROM AHU-1
7. REFRIGERANT PIPING FROM INDOOR UNIT TO OUTDOOR UNIT
8. LOCATE FIRE/SMOKE DAMPER (FSD) ACTUATOR ON THE CEILING TILE (T-BAR) CEILING SIDE. IDENTIFY THE ACCESS LOCATION AT THE GRID (REFER TO DETAIL G/M9.02 FOR IDENTIFICAITON REQIREMENTS)
9. PROVIDE CEILING ACCESS (HARD LID CEILING) DOOR TO ACCESS FIRE/SMOKE DAMPER (FSD). LABEL CEILING ACCESS DOOR IDENTIFYING AS THE FSD ACCESS
10. 6" EXHAUST (R)(TA)
11. 22x22R1 GRILLE IS BELOW 36x14 RA DUCT MAIN 6" - 65f
12. 36x14 RA DUCT

FLOOR PLAN SYMBOLS LEGEND

1-HOUR RATED INTERIOR WALL
2-HOUR FIRE WALL

GENERAL NOTES:

CONTRACTOR SHALL PROVIDE CODE COMPLIANT ACCESS & IDENTIFICATION FOR FIRE SMOKE DAMPER. FOR REQUIREMENTS REFER TO DETAIL G/M9.02

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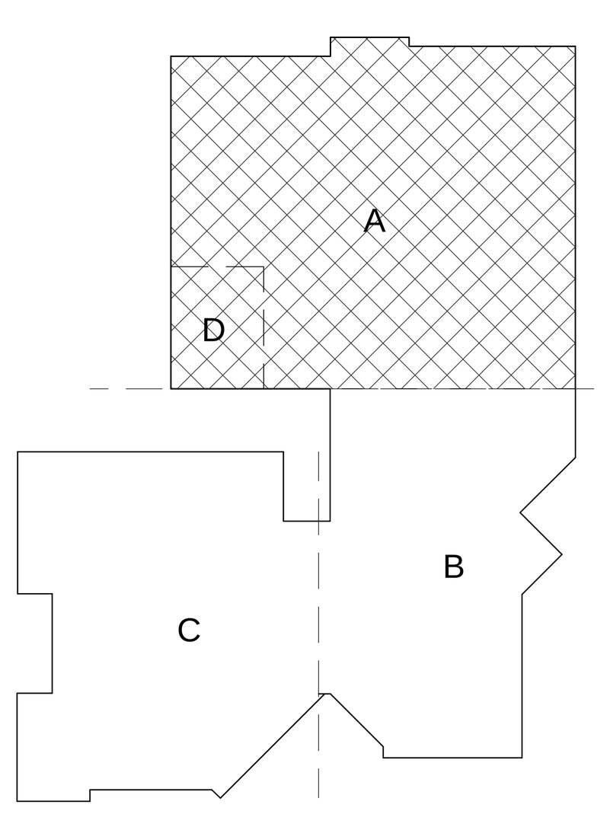
COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM #1	3/30/18



KEY PLAN

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990

AC____ FLS____ SS____
DATE ______

ARCHITECT'S STAMP APPROVAL

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Project Manager:	NS	Plot Date:	
Project Drafter:	WR	Login:	

REGISTERED PROFESSIONAL ENGINEER
BRIAN J. PROVENCAL
No. M030446
Exp. 12/31/19
MECHANICAL
STATE OF CALIFORNIA

PARTIAL ENLARGED FIRST FLOOR PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

M4.11

PLUMBING EQUIPMENT SCHEDULE

WH 1 — TANKLESS GAS FIRED WATER HEATER-1
"NORITZ" MODEL NCC-1991-DV COMMERCIAL CONDENSING INDOOR TANKLESS GAS WATER HEATER. MODULATING GAS INPUT RATING FROM 16,000 BTU/H MIN. TO 199,900 BTU/H MAX. 94% THERMAL EFFICIENCY RATING. 4.6 GPM FLOWRATE AT 80°F RISE, 0 .5 GPM MIN. FLOW RATE, 120 VOLT POWER CORD, 81 WATTS, SEALED COMBUSTION, DIRECT VENTED. PROVIDE COMPLETE WITH CONDENSATE NEUTRALIZER (NC-1) CPVC VENT & COMBUSTION AIR PIPE. MAX. OPERATING WEIGHT OF 100 LBS. PROVIDE COMPLETE WITH "ENVIRO WATER PRODUCT" MODEL EHS10, SCALE INHIBITOR (WATER HEATER SHIELD), REFER TO DETAIL A/P5.01

ET 1 — EXPANSION TANK-1
"WESSELS" MODEL TTA-5, THERMAL EXPANSION TANK, 3.5 GALLONS TANK VOLUME, 2.3 GALLONS ACCEPTANCE VOLUME, FIXED BLADDER (DIAPHRAGM) TYPE. ASME TANK.

CP 1 — CIRCULATING PUMP-1
"B&G" MODEL NBF-12U/LW, 1 GPM FLOWRATE AT 12 FEET OF HEAD, 115V/1/60Hz, 55 WATTS. LEAD FREE CONSTRUCTION. PROVIDE COMPLETE WITH DIGITAL TIME CLOCK AND AQUASTAT. MAX OPERATING WEIGHT OF 15 LBS.

WATER AND WASTE SERVICE CALCULATIONS

JOB NAME: CRC College Center - Expansion (New Service) DATE: 12/23/16

FIXTURE TYPE	NO.	WASTE		COLD WATER		HOT WATER		TOTAL WATER
		FU	TOTAL	FU	TOTAL	FU	TOTAL	FU
DRINKING FOUNTAIN	2	0.5	1	0.5	1	0	0	1
HOSE BIBB	2	0	0	2.5	5	0	0	5
LAVATORY (SINGLE)	9	1	9	0.75	6.75	0.75	6.75	9
SERVICE SINK	2	3	6	2.25	4.5	2.25	4.5	6
SINK, 1-1/2" TRAP	1	2	2	1.5	1.5	1.5	1.5	2
URINAL, 0.5 GPF	3	2	6	4	12	0	0	12
WATER CLOSET, 1.28 FV	13	4	52	5	65	0	0	65
TOTAL FU			76.0		95.8		12.8	100.0

EQUIVALENT COLD WATER FLOW RATE (GPM):	68	
ADDITIONAL DEMAND LOAD (GPM)	0	
PRESSURE AVAILABLE AT MAIN (PSI):	45	
MINIMUM REQUIRED FIXTURE PRESSURE (PSI):	20	
ELEVATION RISE (FT):	15	
METER LOSS (PSI):	4	
BACKFLOW PREVENTER LOSS (PSI):	10	0
ADDITIONAL LOSSES (PSI):	0	
EQUIVALENT PIPE LENGTH FROM METER TO MOST REMOTE FIXTURE (FT):	200	
FRICTION LOSS PRESSURE AVAILABLE (PSI):	4.49	
MAXIMUM ALLOWABLE FRICTION LOSS (PSI/100 FT):	2.25	
WATER FLOW VELOCITY (FPS):	4.55	
CALCULATED FRICTION HEAD LOSS (PSI/100 FT):	1.68	
MINIMUM REQUIRED 'WATER' PIPE SIZE (INCHES):	2.5	
MINIMUM REQUIRED 'WASTE' PIPE SIZE (INCHES):	4	
(CALCULATIONS PER THE UPC/CPC)		

SEISMIC BRACING NOTES

MEP COMPONENT ANCHORAGE NOTES:

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 2016 CBC, SECTIONS 1616A.1.8 THROUGH 1616A.1.26 AND ASCE 7-10 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 THEN 8 HOURS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

A. 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.
B. 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.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY 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:

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A.1.24, 1616A.1.25, AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHAPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP ☐ MD ☐ PP ☐ E ☐ -OPTION 1: DETAILED ON THE APPROVED DRAWING WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP ☐ MD ☐ PP ☒ E ☐ -OPTION 2: SHALL COMPLY WITH TEH APPLICABLE OSHPD PRE-APPROVAL(OPM#) # "MASON" OPM-0043-13, "B-LINE" OPM-0052-13.

MP ☐ MD ☐ PP ☐ -OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHERS ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL ____ AND CONNECTIONS LEVEL ____ FOR THE PROJECT AND CONDITIONS.

PLUMBING FIXTURES SCHEDULE

DO-1 DISCHARGE OUTLET: "J.R. SMITH" MODEL 1770 DOWNSPOUT NOZZEL FOR OVERFLOW DRAIN DAYLIGHT DISCHARGE. NICKLE BRONZE WITH BIRD SCREEN FINISH.

EDF-1 ELECTRIC DRINKING FOUNTAIN:"ELKAY" MODEL LZSTL8NSLK (OR APPROVED EQUAL)BI-LEVEL COOLER DRINKING FOUNTAIN WITH BOTTLE FILLING STATION. 8.0 GPH CHILLING CAPACITY, 115 VOLTS/1Ø/60HZ, 370 WATTS, 5 AMPS. ADA COMPLIANT.

FD-1 FLOOR DRAIN: "J.R. SMITH" MODEL 2005Y, ROUND TOP, NO-HUB CONNECTION, ADJUSTABLE NICKLE BRONZE TRAINER, TRAP PRIMER CONNECTION. MIN 3"Ø OUTLET.

FS-1 FLOOR SINK: "J.R. SMITH" MODEL 3100Y, 8 1/2" SQUARE NICKLE BRONZE TOP, DOME BUTTON STRAINER, DUCO CAST IRON RECEPTOR. PROVIDE WITH 1/2 GRATE.

JS-1 JANITORS SINK: "FLORESTONE" MODEL 87, TERRAZZO MOP RECEPTOR, 24x242x6 (DEEP) FLOOR MOUNTED, NCO ANGLE, 3' INTEGRAL DRAIN WITH 18 GA STAINLESS STEEL GRID, MR-371 FAUCET WITH VACUUM BREAKER AND BUCKET HOOK, MR-372 MOP HANGER WITH 3 CLAMPS, AND MR-370, 30" HOSE WITH SS CLAMP. PROVIDE SUPPLIES AND STOPS.

HB-1 HOSE BIB: "WOODFORD" MODEL B24 ANTI-SIPHON, VACUUM BREAKER PROTECTED HOSE BIB IN ENCLOSED FLUSH MOUNTED LOCKABLE WALL BOX. LOOSE TEE KEY HANDLE

HB-2 HOSE BIB: "ACRON" MODEL 8121 WITH VACUUM BREAKE. PROVIDE WITH LOCK SHEILD AND LOOSE KEY HANDLE. ROUGH CHROME PLATED FOR EXTERIOR LOCATION.

L-1 LAVATORY: "KOHLER" MODEL K-20000, VITREOUS CHINA, RECTANGULAR, UNDER-MOUNT, 17 3/8"x13" SINK BOWL WITH INTEGRAL OVERFLOW. "CHICAGO FAUCET" MODEL EQ-A12B-12ABCP, 4" FIXED CENTER, 0.5 GPM FLOW RATE BATTERING POWRED FAUCET. PROVIDE COMPLETE WITH COMPLETE MECHANICAL MIXING VALVE. PROVIDE 17 GA CHROME-PLATED BRASS P-TRAP, SUPPLIES & STOPS. ADA COMPLIANT.

L-2 LAVATORY: "KOHLER" MODEL K-2032 VITREOUS CHINA, WALL HUNG, 20 3/4"x18 1/4" SINK. "CHICAGO FAUCET" MODEL EQ-A12B-12ABCP, 4" FIXED CENTER, 0.5 GPM FLOWRATE, BATERRYPOWERED FAUCET. PROVIDE COMPLETE MECHANICAL MIXING VALVE. PROVIDE FLOOR MOUNTED, CONCEALED WALL HANG CARRIER, 17 GA. CHROME-PLATED BRASS P-TRAP, SUPPLIES AND STOPS. TRUE-BRO LAV GUARD INSULATION ON P-TRAP AND HOTWATER. ADA COMPLIANT.

OD-1 OVERFLOW DRAIN: "J.R. SMITH" MODEL 1070, FLAT ROOF OVERFLOW DRAIN, NO HUB OUTLET, UNDERDECK CLAMP, CAST IRON DOME.

RD-1 ROOF DRAIN: "J.R. SMITH" MODEL 1010, LOW-PROFILE, DOME TYPE, NO-HUB OUTLET, UNDERDECK CLAMP ROOF DRAIN, CAST IRON DOME.

S-1 SINK: "JUST" MODEL USN-ADA-1830-A, 18 GA, TYPE - 304 STAINLESS STEEL, SINGLE BOWL, UNDER-MOUNT, 5 1/2" DEEP, ADA COMPLIANT. PROVIDE "CHICAGO FAUCET" MODEL 2300-8, 1.5 GPM FLOW RATE, SINGLE LEVER DECK MOUNTED FAUCET. PROVIDE 17 GA CHROME-PLATED BRASS P-TRAP, SUPPLIES & STOPS (1)

UR-1 URINAL: "SLOAN" MODEL WEUS-1000-1420-0.125 VITREOUS CHINA, WALL HUNG, TOP SPUD URINAL. MOUNT AT ADA HEIGHT. COMPLETE WITH "SLOAN" SENSOR TYPE, BATTERY POWERED, 0.125 GPF FLUSH VALVE WITH OVERRIDE BUTTON. PROVIDE J.R.SMITH FLOOR MOUNTED URINAL CARRIER.

WC-1 WATER CLOSET: "SLOAN" MODEL ST-2-59. VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, WALL HUNG TOILET. "SLOAN" MODEL ECOS-8111. SENSOR TYPE, BATTERY POWERED, DUAL FLUSH - 1.1 GPF/1.6GPF FLUSH VALVE WITH MANUAL OVERRIDE BUTTON. PROVIDE "ONSONITE" MODEL 1055SSC SELF SUSTAINING CHECK HINGES ELONGATED OPEN FRONT, LESS COVER TOILET SEAT. MOUNT AT STANDARD HEIGHT.

WC-2 WATER CLOSET: "SLOAN" MODEL ST-2459 VITREOUS CHINA, ELONGATED BOWL, TOP SPUD, WALL HUNG TOILET. "SLOAN" MODEL ECOS-8111, SENSOR TYPE, BATTERY POWERED, DUAL FLUSH - 1.1. GPF/1.6GPF FLUSH VALVE WITH MANUAL OVERRIDE BUTTON. PROVIDE "OLSONITE" MODEL 1055 SSC SELF SUSTAINING CHECK HINGES, ELONGATED OPEN FRONT, LESS COVER TOILET SEAT. MOUNT AT ADA COMPLIANT HEIGHT.

WHA-1 WATTER HAMMER ARRESTOR: "J.R.SMITH" SERIES 5200 PISTON TYPE WATER HAMMER ARRESTOR, SIZE PER MFR'S SIZING CRITERIA. PROVIDE 12x12 STAINLESS STEEL ACCESS DOOR

PD-1 PEDIMAT DRAIN "J.R. SMITH" 1610 3" DIAMETER BRONZE FLASHING CAST IRON BODY.

PIPE SIZE SCHEDULE

SCHEDULE BASED ON PRESSURE LOSS OF 2.25 PSI/100 FT.

PIPE SIZE	GPM	FLUSH TANK FIXTURE UNITS	FLUSH VALVE FIXTURE UNITS
3/4"	4	4	-
1"	8	10	-
1-1/4"	14	20	-
1-1/2"	23	36	6
2"	47	115	42
2-1/2"	82	284	158
3"	131	533	430
4"	276	2042	2042
5"	494	3600	3600

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE NAME	SYMBOL	VENT	WASTE		COLD WATER		HOT WATER	
			BR	RI	BR	RI	BR	RI
WATER CLOSET	WC	2"	4"	4"	1-1/4"	1"	-	-
LAVATORY	L	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
SINK	S	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
MOP SINK	MS	1-1/2"	2"	1-1/2"	3/4"	1/2"	3/4"	1/2"
DRINKING FOUNTAIN	DF	1-1/2"	2"	1-1/2"	3/4"	1/2"	-	-
FLOOR SINK / FLOOR DRAIN	FS/FD	2"	3"	3"	-	-	-	-
HOSE BIBB/ WALL HYDRANT	HB/WHD	-	-	-	3/4"	3/4"	-	-
ICE MAKER BOX	IM	-	-	-	3/4"	1/2"	-	-
URINAL	UR	1-1/2"	2"	2"	1	3/4"	-	-

PLUMBING LEGEND

SYMBOL	DESCRIPTION
—	DOMESTIC COLD WATER LINE
CD	CONDENSATE DRAIN
F	FIRE SERVICE LINE
G	GAS
—	DOMESTIC HOT WATER LINE
—	DOMESTIC HOT WATER RETURN
LPG	LIQUID PETROLEUM GAS
OFL	OVERFLOW
—	PIPING OR EQUIPMENT TO BE REMOVED
RWL	RAINWATER LEADER
—	RISE OR DROP IN DIRECTION OF FLOW
—	SANITARY SOIL OR WASTE LINE
SCD	SECONDARY CONDENSATE DRAIN LINE
TP	TRAP PRIMER LINE
—	VENT
—	CLEANOUT & WALL CLEANOUT
—	FIRE DEPARTMENT CONNECTION
—	FLOOR/ GRADE CLEAN OUT
—	FLOOR DRAIN
—	HOSE BIBB/ WALL HYDRANT
—	TRAP
—	TRAP PRIMER
—	BALANCING VALVE
—	BALL VALVE
—	BUTTERFLY VALVE
—	CHECK VALVE
—	FLEXIBLE CONNECTION
—	GATE VALVE
—	SHUT OFF COCK
—	PRESSURE GAUGE
—	PRESSURE REDUCING VALVE
—	REDUCER
—	PRESSURE & TEMPERATURE RELIEF VALVE
—	SHUT OFF VALVE
—	STRAINER
—	STRAINER & DRAIN VALVE WITH HOSE FITTING
—	SOLENOID VALVE
—	THERMOMETER
—	UNION

ABBREVIATION	MEANING
ABV	ABOVE
ABC, OH	ABOVE CEILING, OVERHEAD
AD	ACCESS DOOR
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
BR	BRANCH
AW	ACID WASTE
CL	CENTERLINE
CO	CLEANOUT
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWR	DOMESTIC HOT WATER RETURN
DIA, ø	DIAMETER
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FSR	FIRE SPRINKLER RISER
GCO	GRADE CLEANOUT
HW	HOT WATER
HWR	HOT WATER RETURN
I.E.	INVERT ELEVATION
(N) (E)	NEW, EXISTING
NIC	NOT IN CONTRACT
(OH)	OVERHEAD
POC	POINT OF CONNECTION
P, TRV	PRESSURE & TEMPERATURE RELIEF VALVE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
(R) (D)	RISE, DROP
RD, OFL	ROOF DRAIN, OVERFLOW
RI	ROUGH-IN
RO	RUN-OUT
SMS	SHEET METAL SCREWS
SOV	SHUT OFF VALVE
TA, FA	TO ABOVE, FROM ABOVE
TB, FB	TO BELOW, FROM BELOW
TBR	TO BE REMOVED
TP	TRAP PRIMER
UG, UF	UNDERGROUND, UNDERFLOOR
UON	UNLESS OTHERWISE NOTED
UTR	UP THROUGH ROOF
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
WT	WATERTIGHT
WCO	WALL CLEANOUT
ZV	ZONE VALVE

APPLICABLE CODES

CODES:

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
A) STATE OF CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, BUILDING STANDARDS:

2016 EDITION OF THE CALIFORNIA BUILDING CODE.
2016 EDITION OF THE CALIFORNIA ELECTRICAL CODE.
2016 EDITION OF THE CALIFORNIA MECHANICAL CODE.
2016 EDITION OF THE CALIFORNIA PLUMBING CODE.
2016 EDITION OF THE CALIFORNIA ENERGY CODE.
2016 EDITION OF THE CALIFORNIA GREEN CODE.

B) NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) LIFE SAFETY CODE, CR.

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM #1	3/30/18

LICENSED ARCHITECT — TROY PENNINGTON C-31285 — 5-31-19 RENEWAL DATE — STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS____ SS____
DATE ________

ARCHITECT'S STAMP APPROVAL

CONSULTANT

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.
2431 CAPITOL AVENUE
Sacramento, CA 95816
(916) 325-1065
FAX: (916) 325-1075
Email: office@turleymech.com

Project Engineer:	BP	Job Number:	15247
Project Manager:	NS	Plot Date:	
Project Drafter:	WR	Login:	

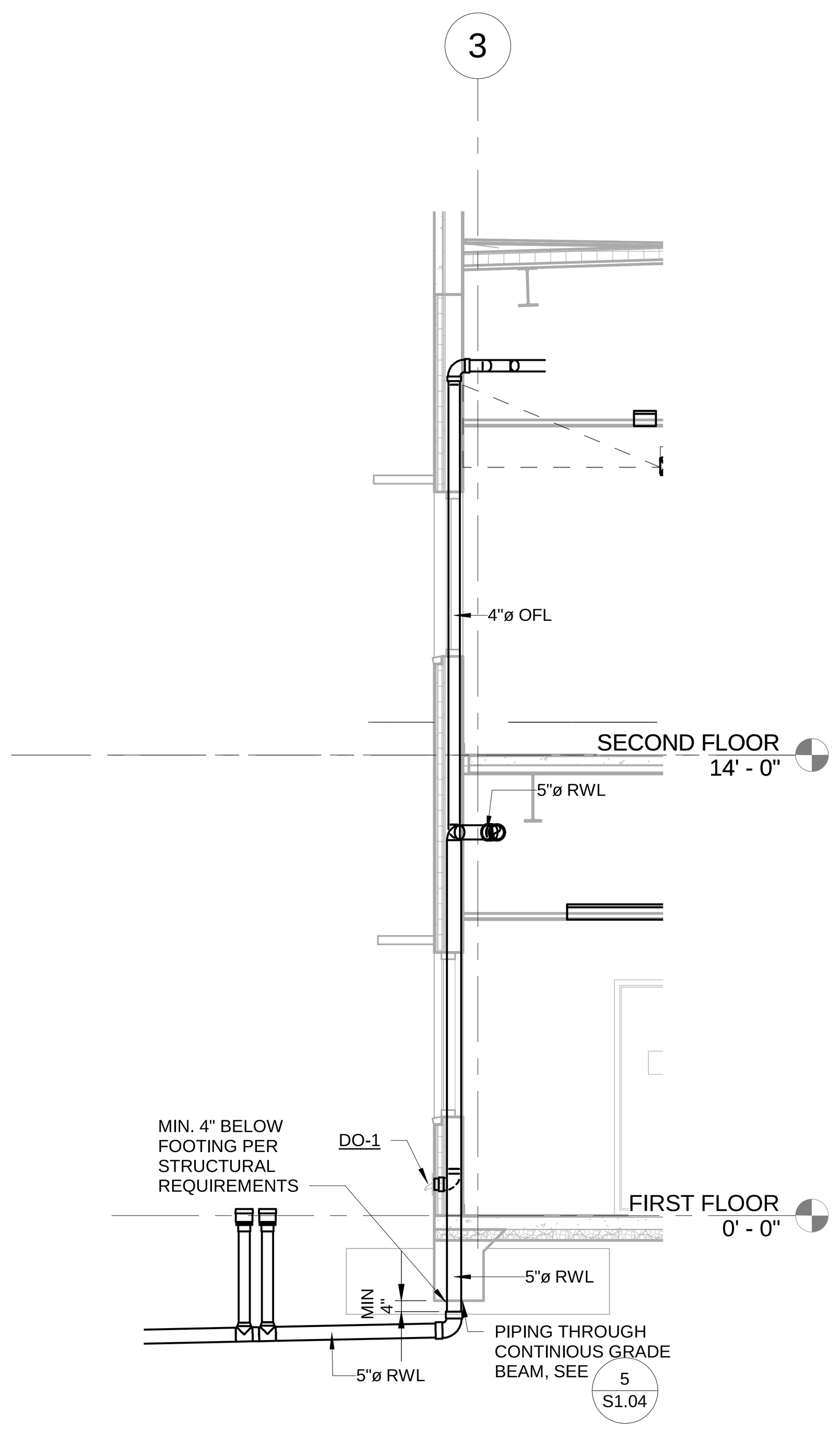
REGISTERED PROFESSIONAL ENGINEER — BRIAN J. PROVENCAL — No. M030446 Exp. 12/31/19 — MECHANICAL — STATE OF CALIFORNIA

PLUMBING NOTES, LEGEND & SCHEDULES

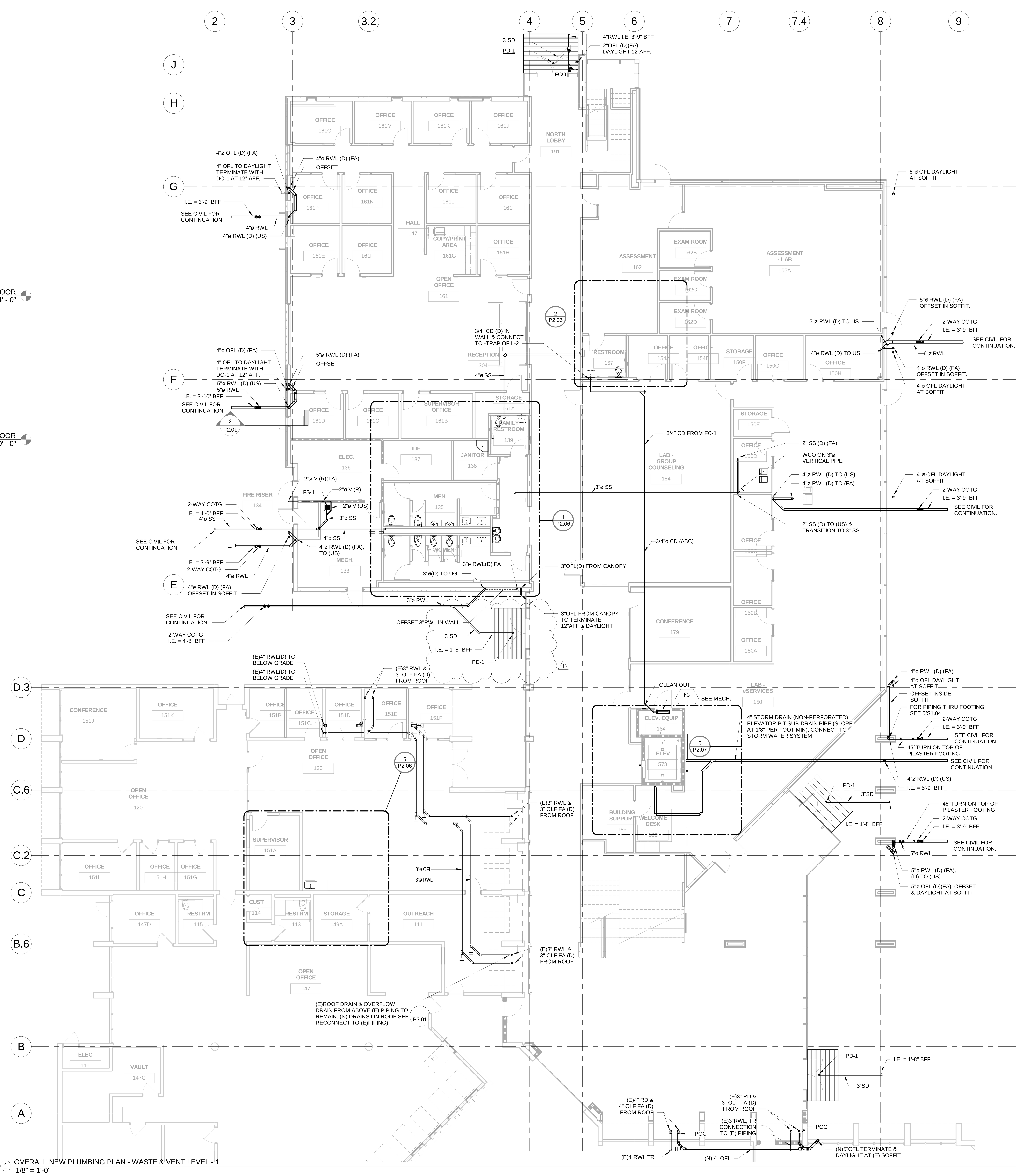
PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

P0.01



2 PIPE EXIT OR ENTRACE AT FOOTING
1/4" = 1'-0"



1 OVERALL NEW PLUMBING PLAN - WASTE & VENT LEVEL - 1
1/8" = 1'-0"

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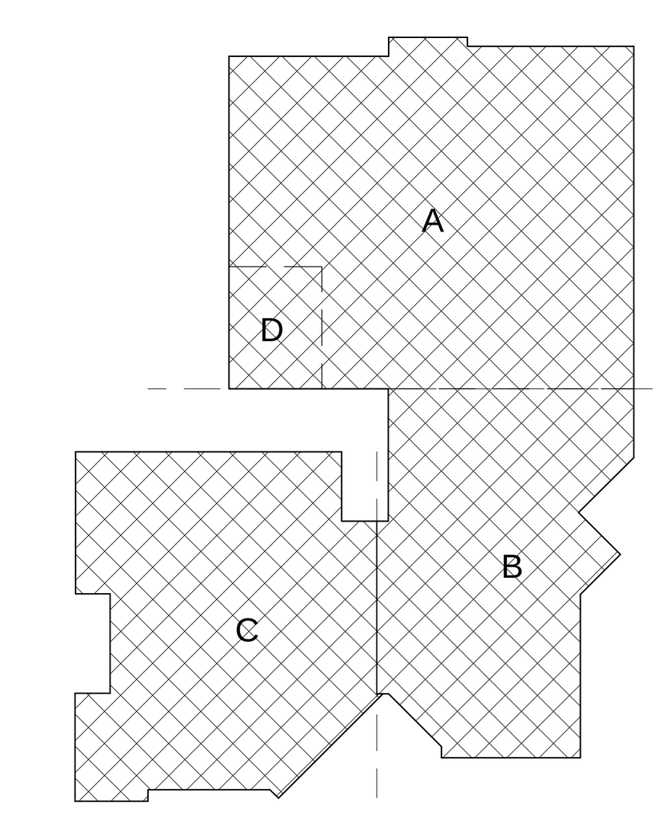


KEY PLAN

LICENSED ARCHITECT
TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC ____ FLS ____ SS ____
DATE ____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

TURLEY & ASSOCIATES
MECHANICAL ENGINEERING GROUP, INC.

Project Engineer	BP	Job Number	15247
Project Manager	NS	Plot Date	
Project Drafter	WR	Login	

NEW PLUMBING PLAN - WASTE & VENT - LEVEL 1

PROJECT NO: 201-0065
DATE: 01.19.2018

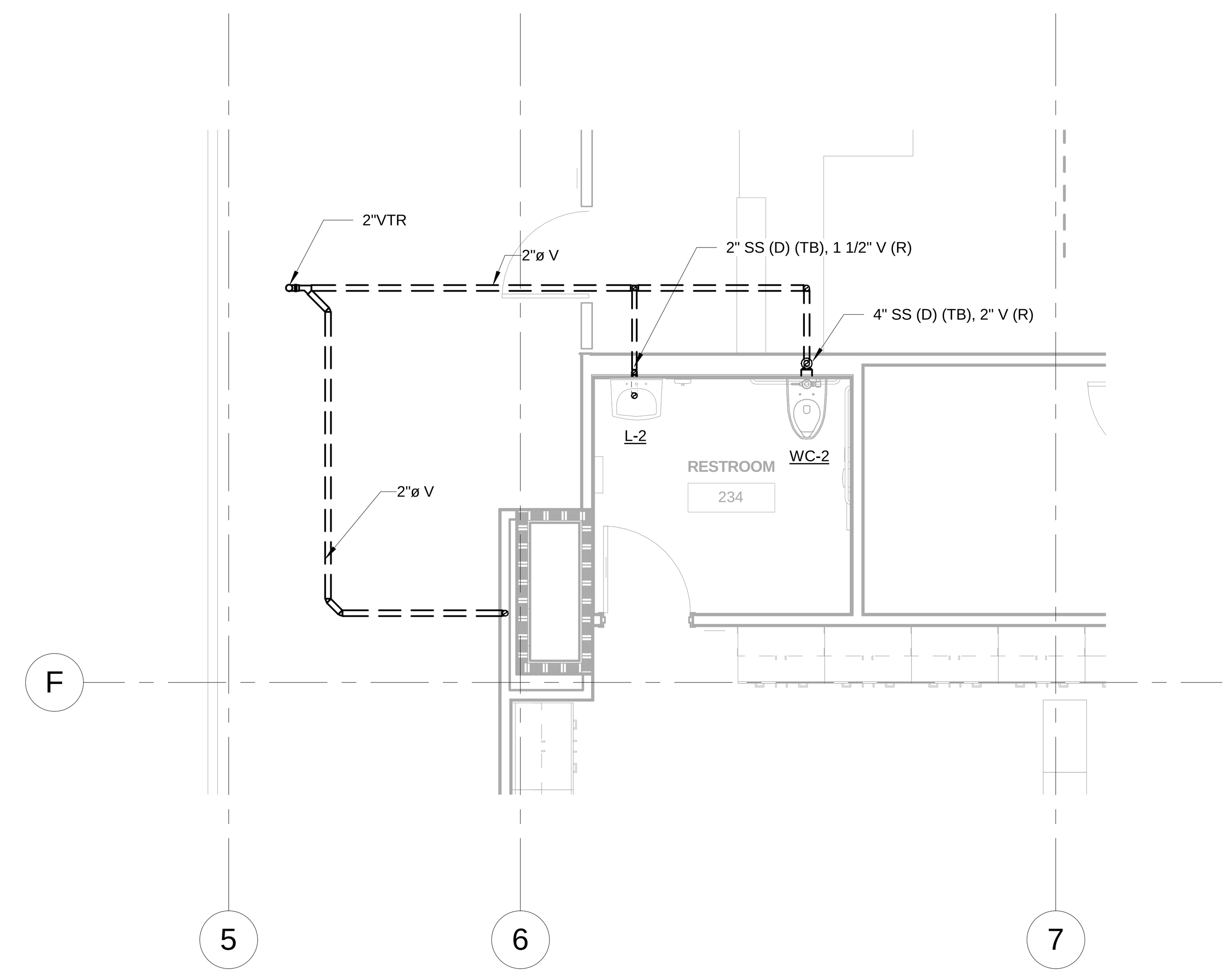
SHEET NO:

P2.01

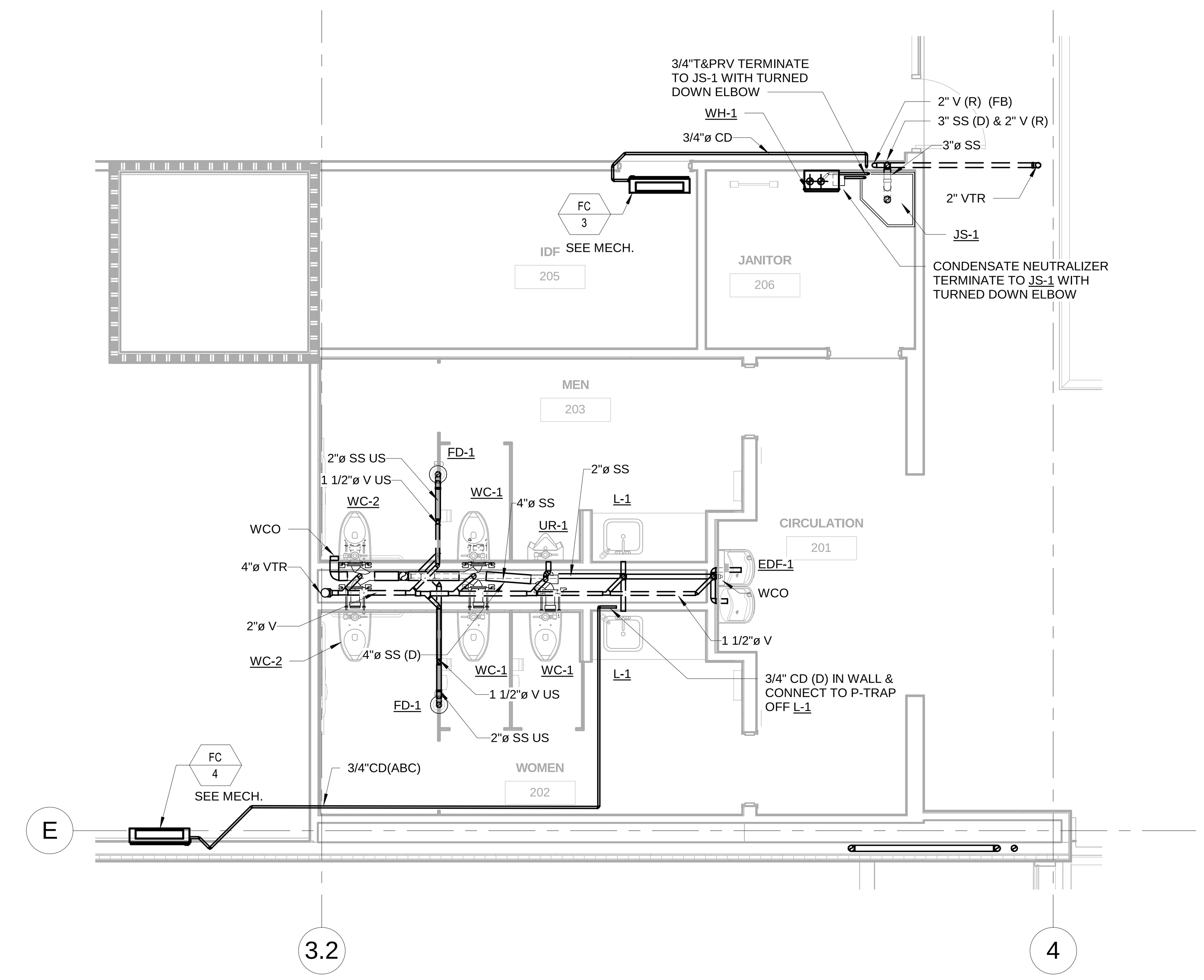
DSA RESUBMITTAL II

GENERAL NOTES:

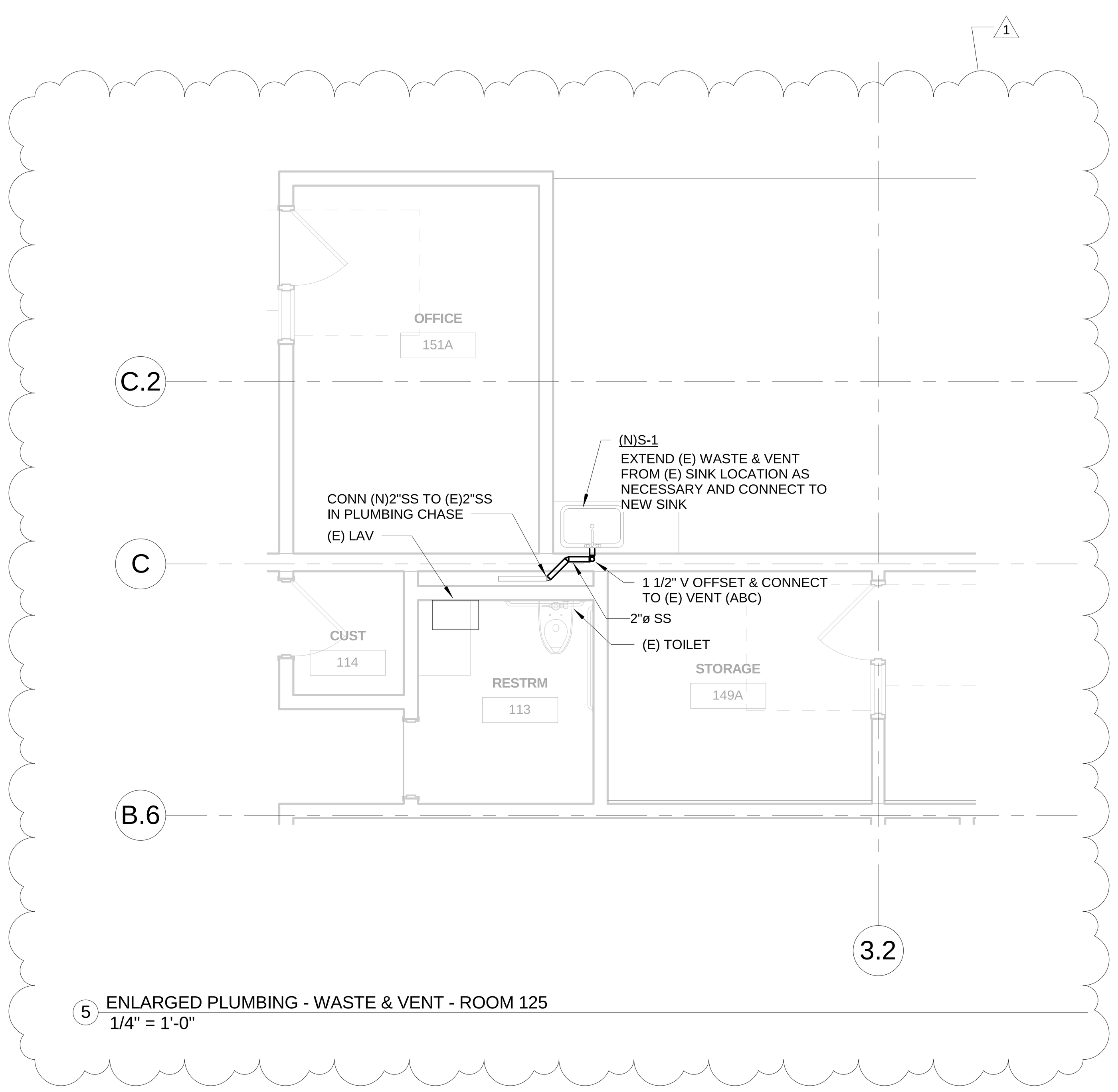
- FOR NON-INSULATED PLUMBING PIPE THRU RATED WALL REFER TO (A / P9.02)
- FOR INSULATED PLUMBING PIPE THRU RATED WALL REFER TO (B / P9.02)
- FOR PIPE PENETRATION THRU RATED FLOOR REFER TO (C / P9.02)
- FOR INSULATED PLUMBING PIPE THRU RATED FLOOR REFER TO (D / P9.02)
- FOR COMBO PLUMBING PIPE PENETRATION THRU RATED WALL REFER TO (E / P9.02)



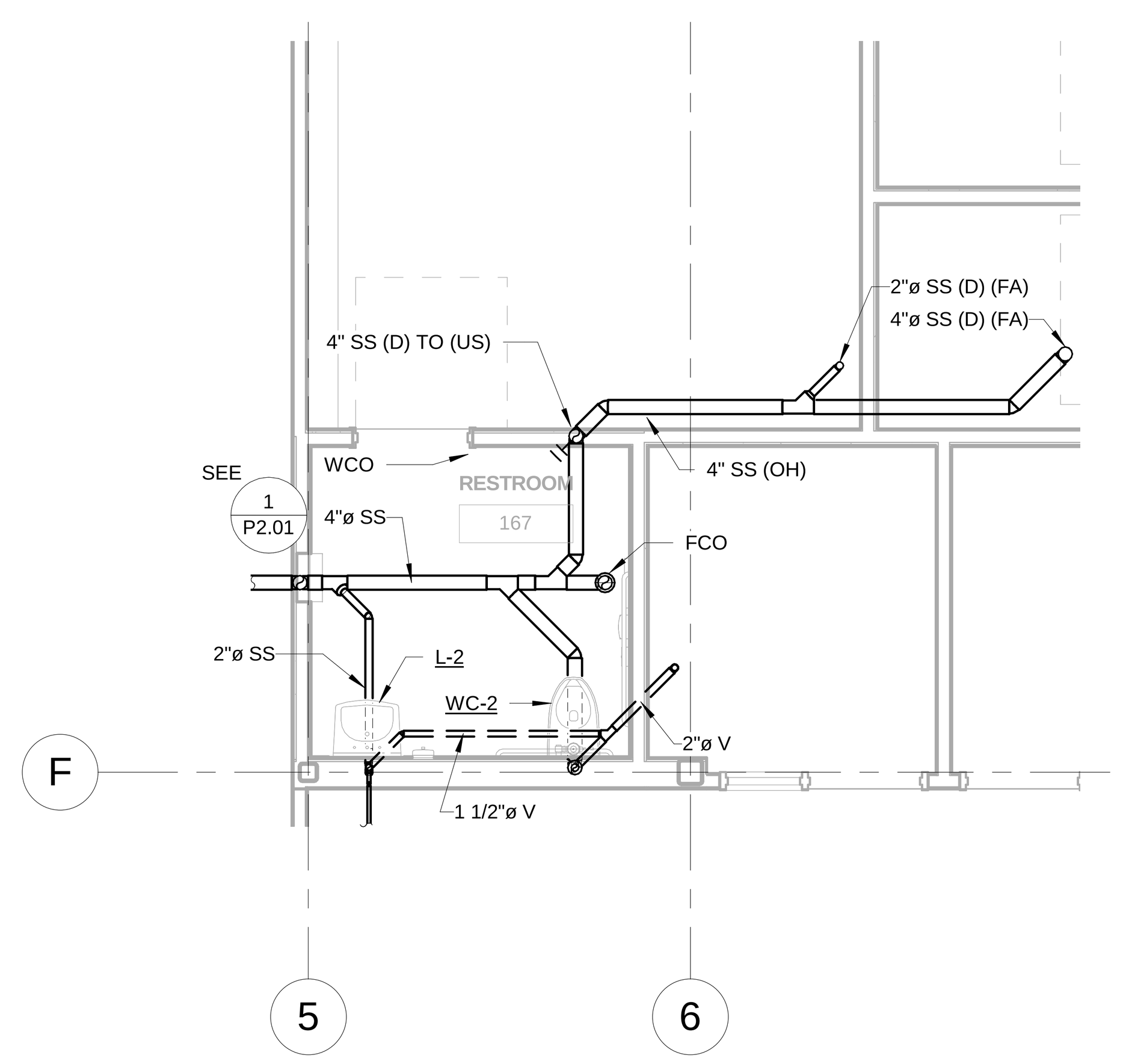
4 ENLARGED PLUMBING - WASTE & VENT - RR 236
1/4" = 1'-0"



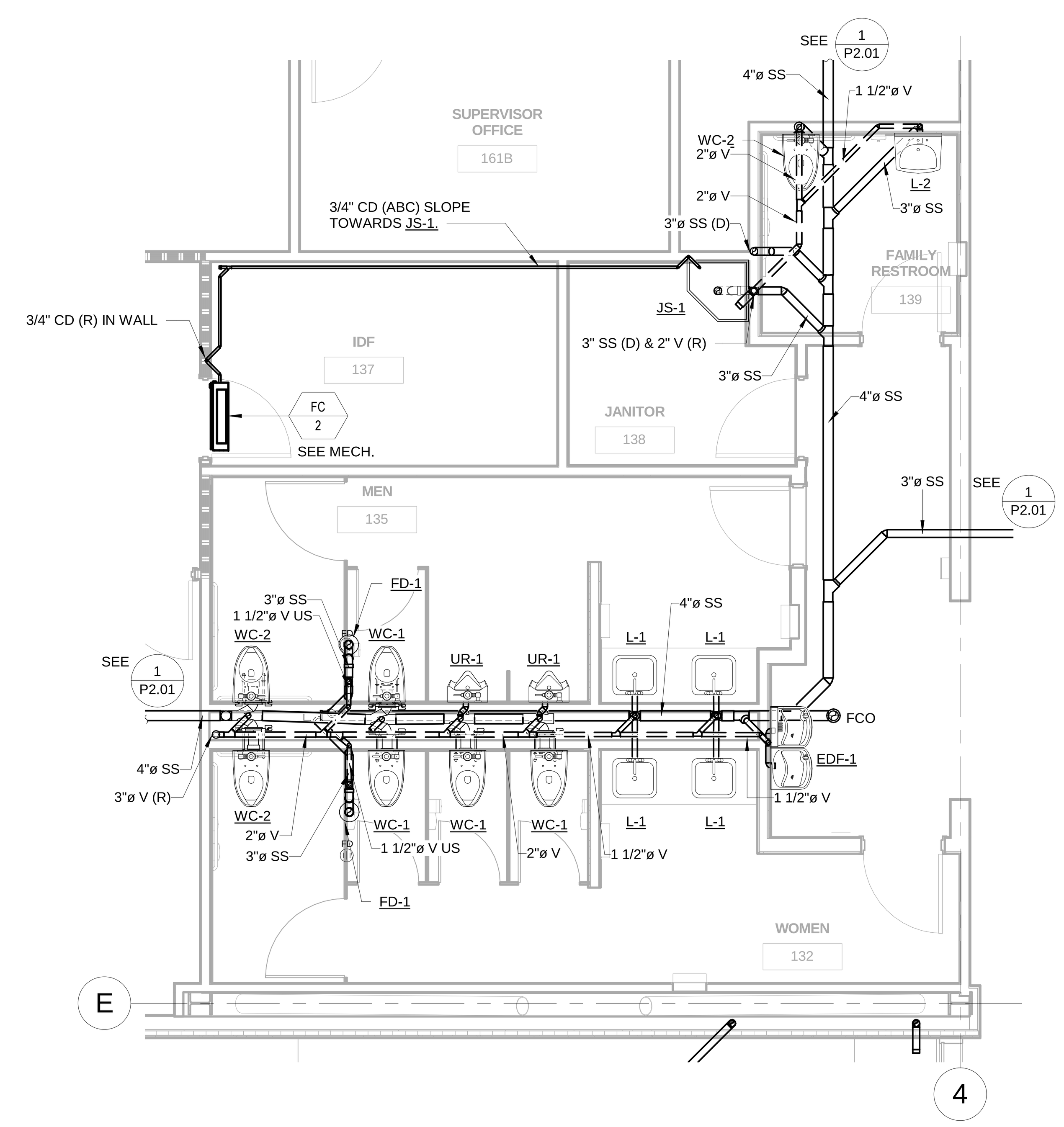
3 ENLARGED PLUMBING - WASTE & VENT - RR 202 & 203
1/4" = 1'-0"



5 ENLARGED PLUMBING - WASTE & VENT - ROOM 125
1/4" = 1'-0"



2 ENLARGED PLUMBING - WASTE & VENT - RR 167
1/4" = 1'-0"



1 ENLARGED 1ST FLOOR PLUMBING - WASTE & VENT - RR 132 & 135
1/4" = 1'-0"

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NO.	ISSUE	DATE
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LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02-115990

AC ______ FLS ______ SS ______
DATE ______

ARCHITECT'S STAMP APPROVAL

CONSULTANT

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.

ENLARGED WASTE & VENT PLANS

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

P2.06

DSA RESUBMITTAL II

GENERAL NOTES:

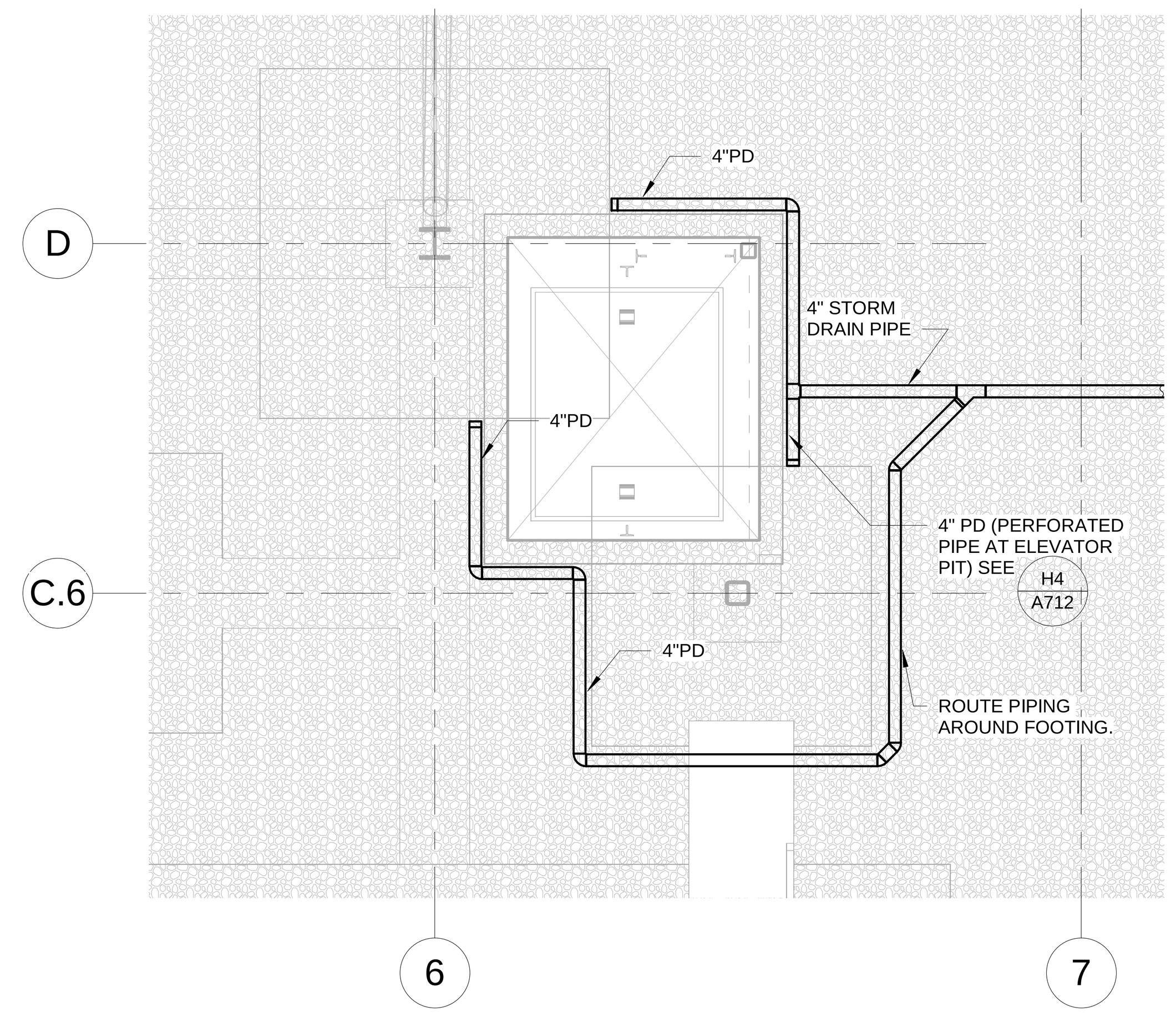
FOR NON-INSULATED PLUMBING PIPE THRU RATED WALL REFER TO A/P9.02

FOR INSULATED PLUMBING PIPE THRU RATED WALL REFER TO B/P9.02

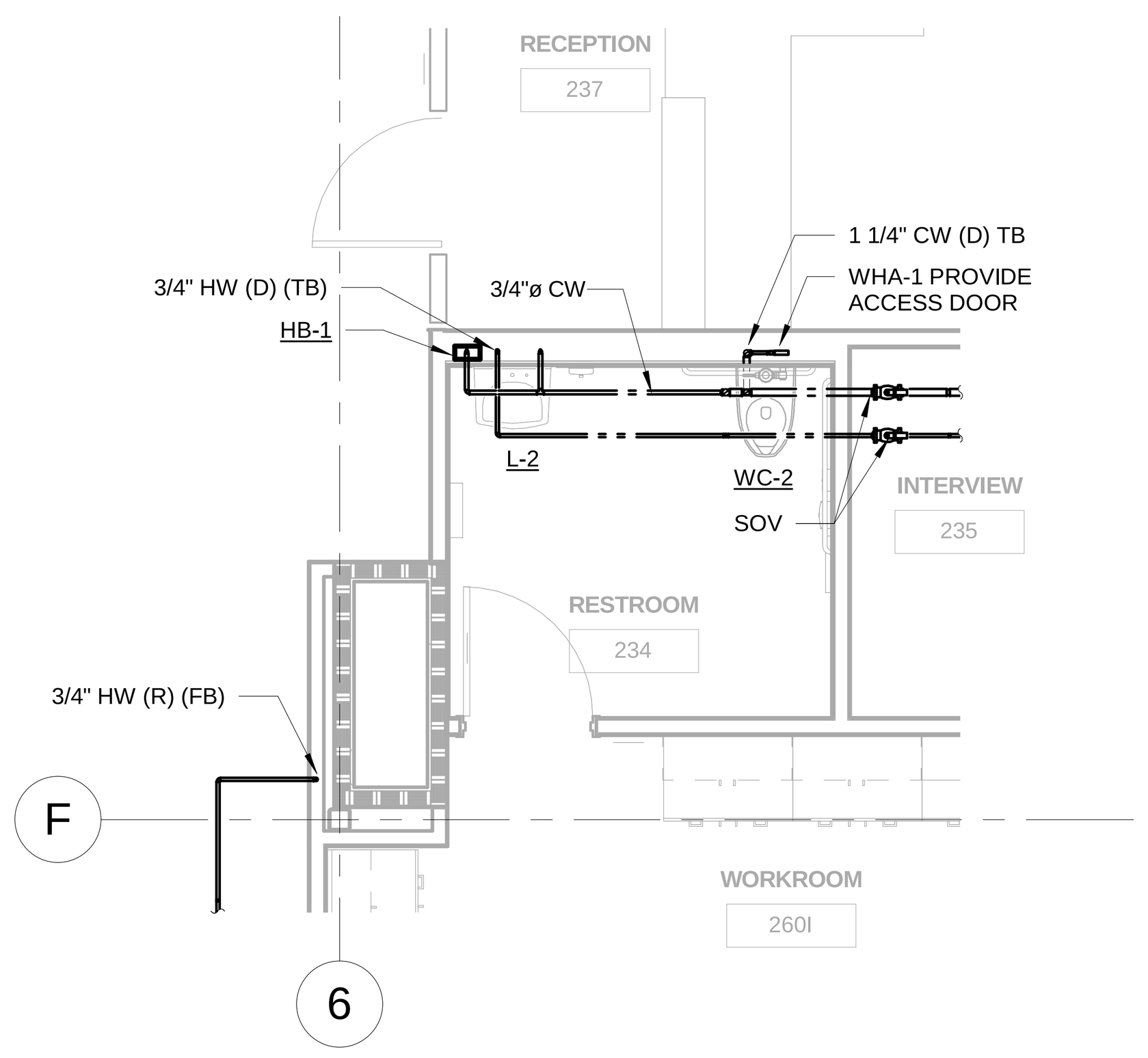
FOR PIPE PENETRATION THRU RATED FLOOR REFER TO C/P9.02

FOR INSULATED PLUMBING PIPE THRU RATED FLOOR REFER TO D/P9.02

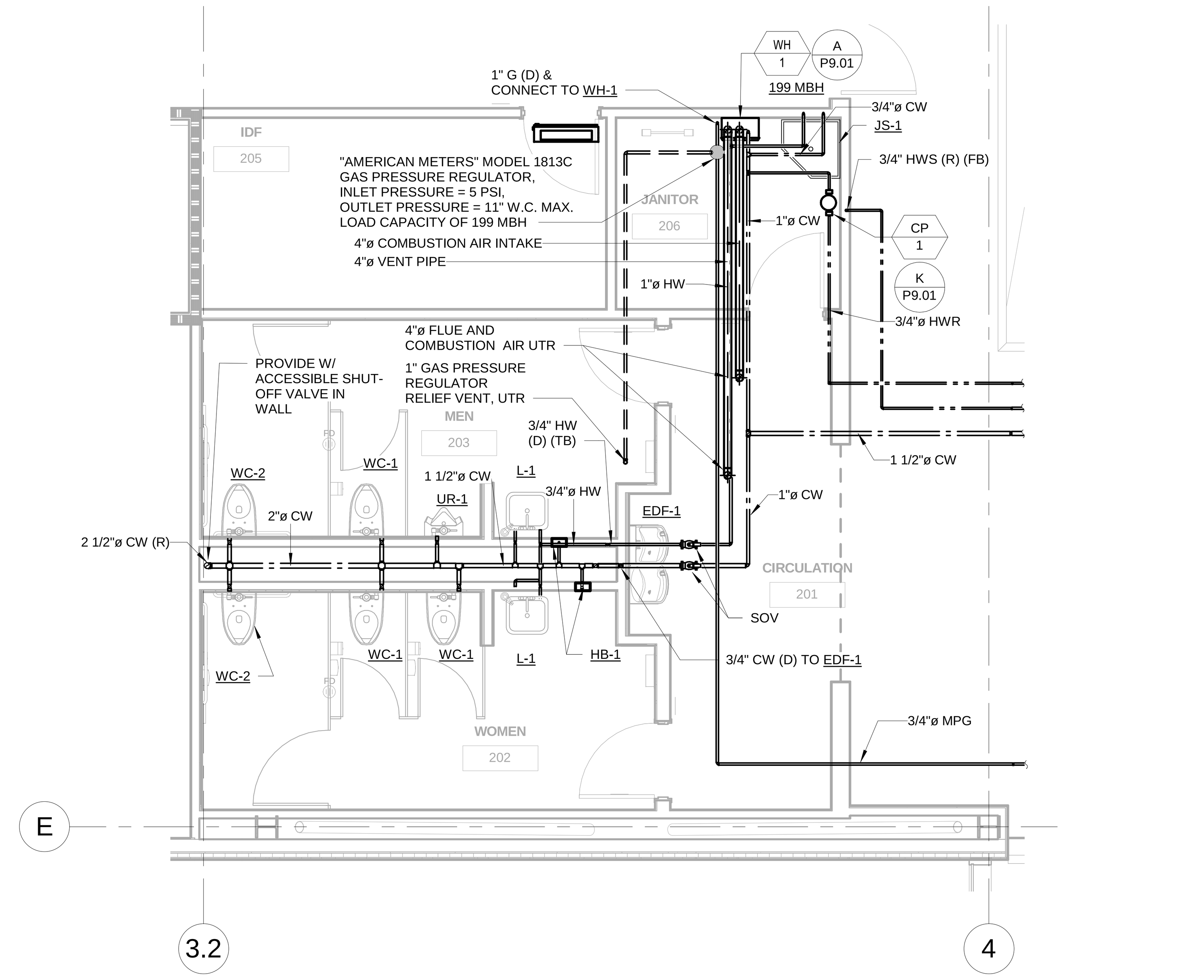
FOR COMBO PLUMBING PIPE PENETRATION THRU RATED WALL REFER TO E/P9.02



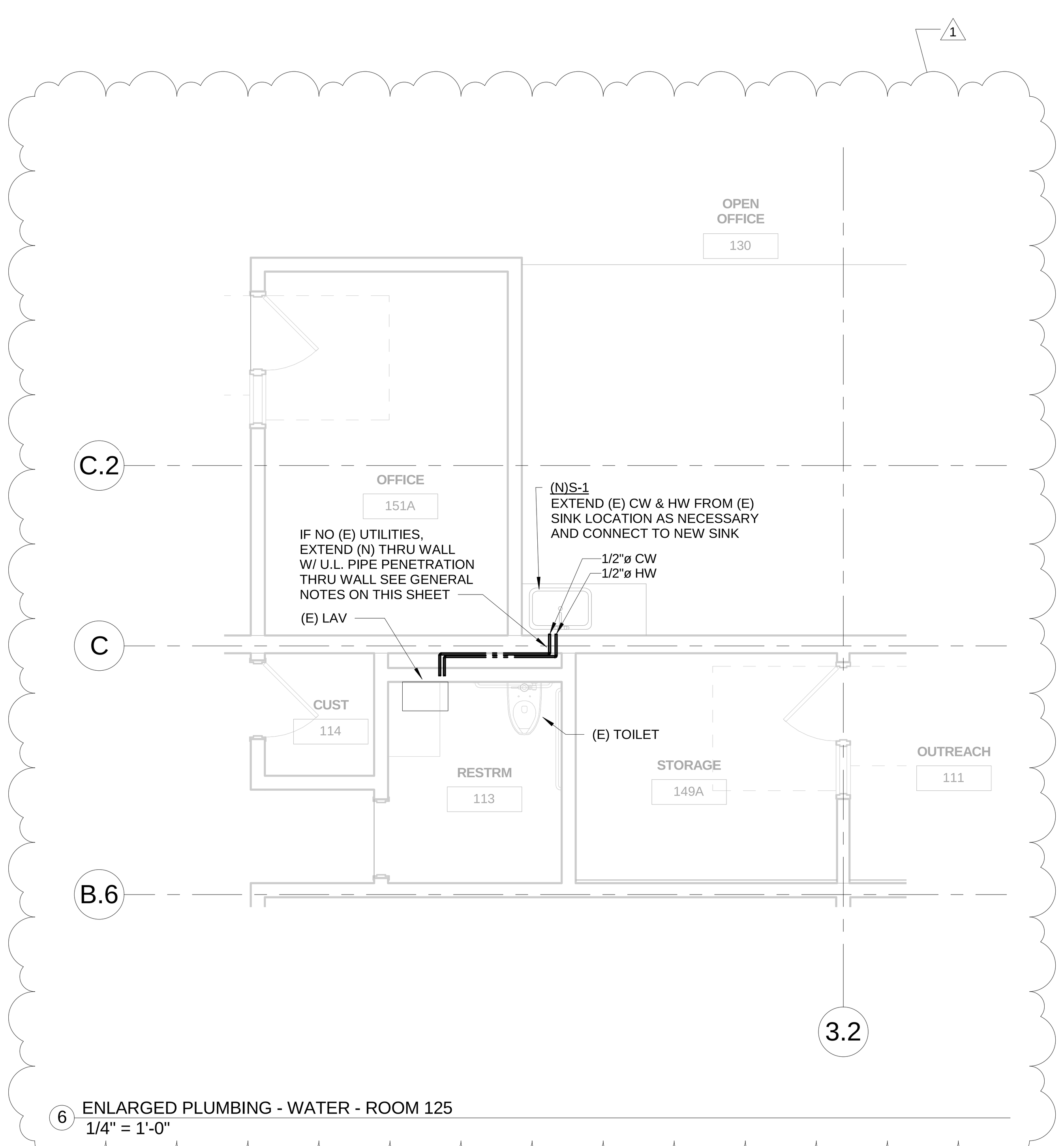
5 ELEVATOR SUB-DRAIN PLAN
1/4" = 1'-0"



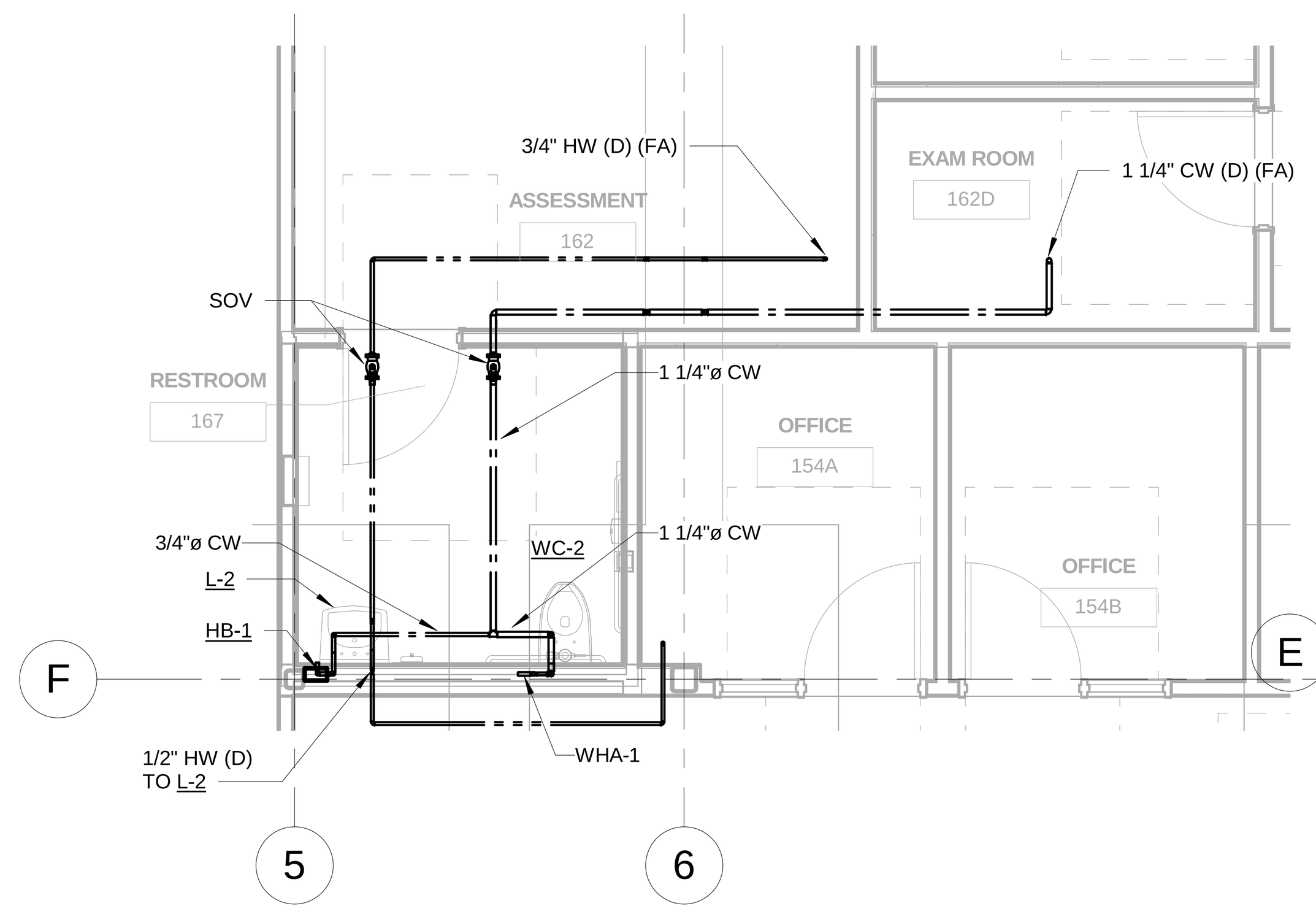
4 ENLARGED PLUMBING - WATER - RR 234
1/4" = 1'-0"



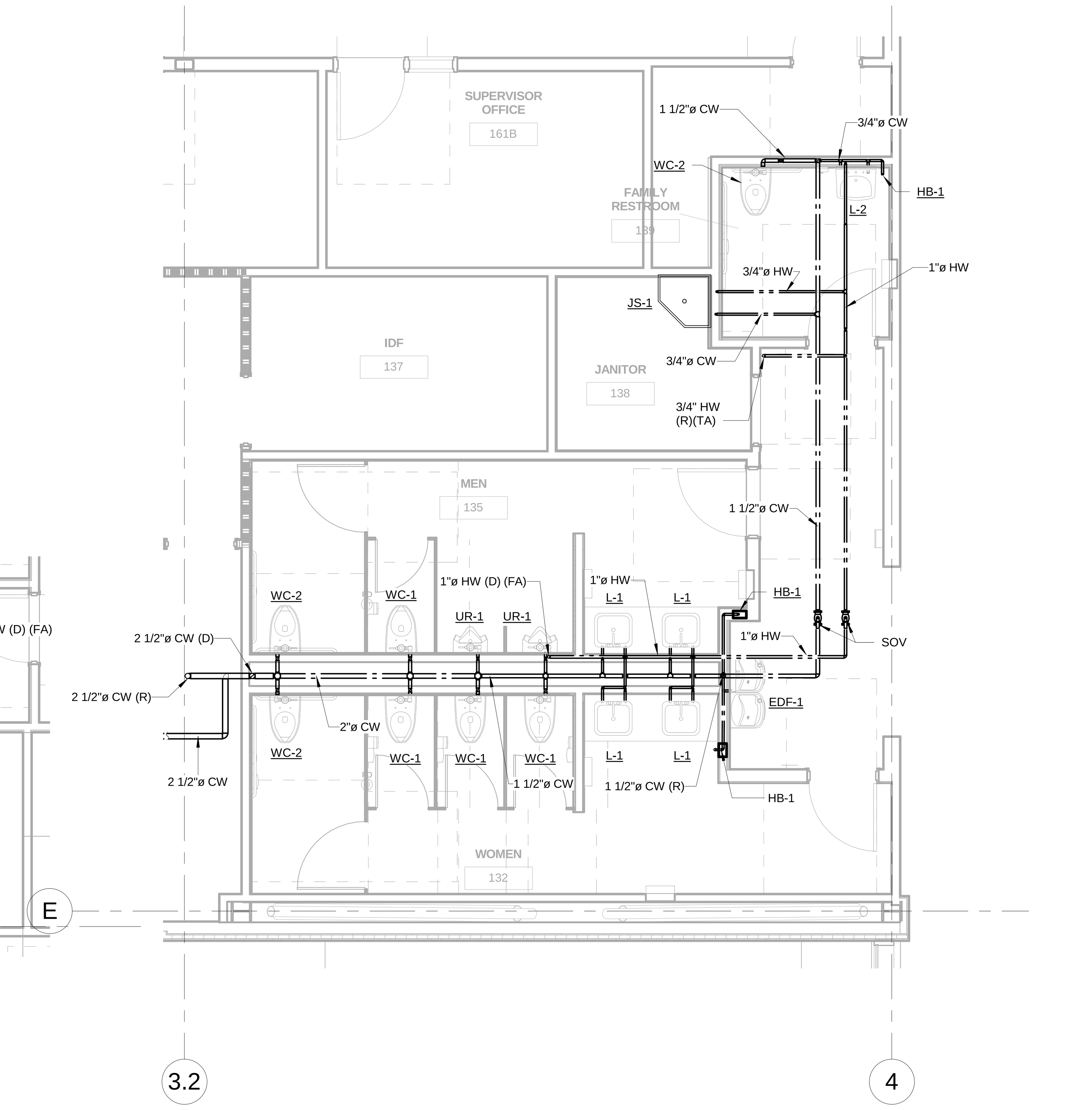
3 ENLARGED PLUMBING - WATER - RR 202 & 203
1/4" = 1'-0"



6 ENLARGED PLUMBING - WATER - ROOM 125
1/4" = 1'-0"



2 ENLARGED PLUMBING - WATER - RR 167
1/4" = 1'-0"



1 ENLARGED PLUMBING - WATER - RR 132 & 135
1/4" = 1'-0"

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LICENSED ARCHITECT — TROY PENNINGTON — C-31285 — 5-31-19 RENEWAL DATE — STATE OF CALIFORNIA

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OFFICE OF REGULATION SERVICES
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DATE ______

ARCHITECT'S STAMP   APPROVAL

CONSULTANT

TURLEY & ASSOCIATES — MECHANICAL ENGINEERING GROUP, INC.
2431 CAPITOL AVENUE
Sacramento, CA 95816

Project Engineer	BP	Job Number	15247
Project Manager	NS	Plot Date	
Project Drafter	WR	Login	

REGISTERED PROFESSIONAL ENGINEER — STATE OF CALIFORNIA — MECHANICAL

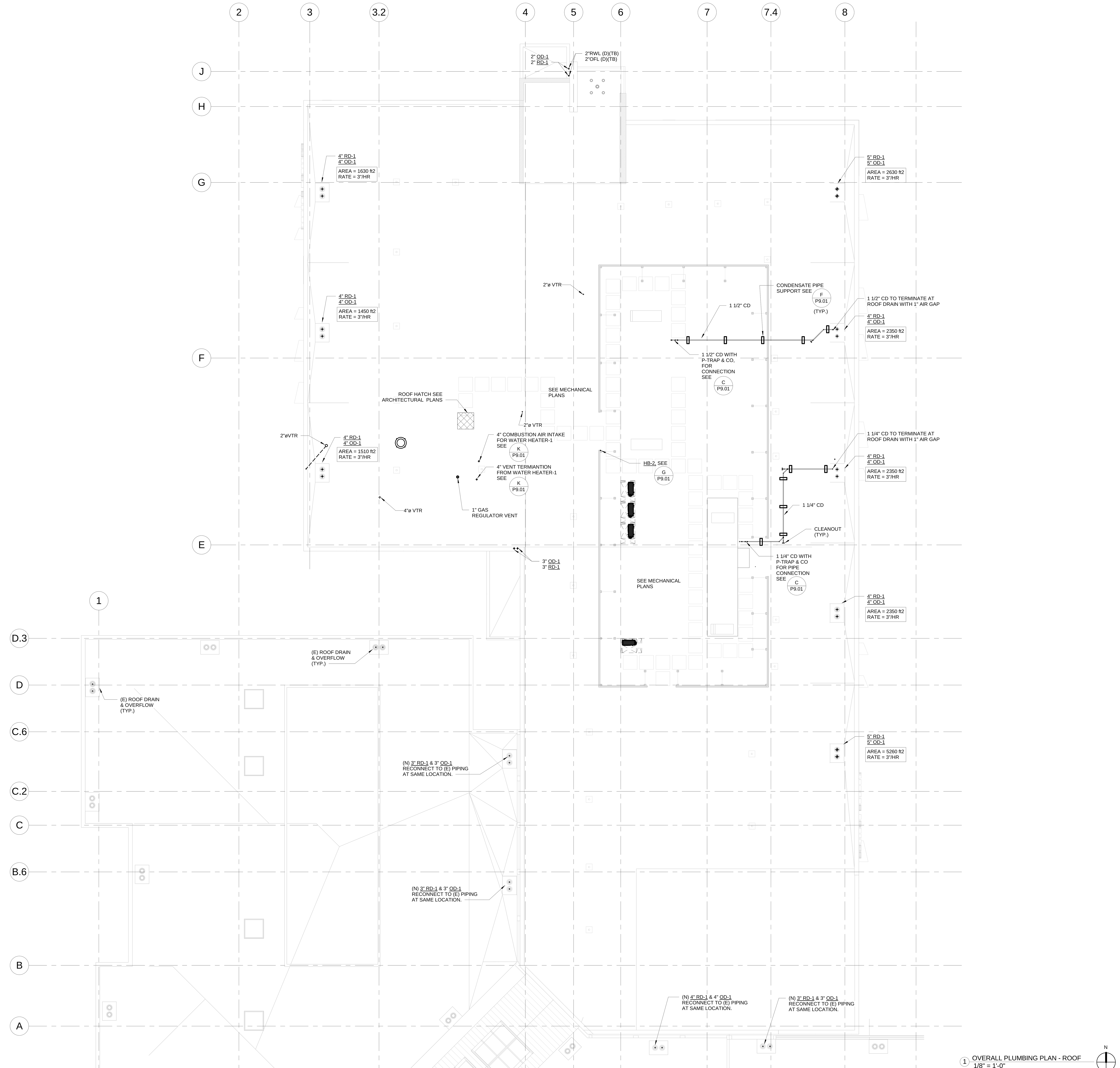
ENLARGED WATER & GAS PLANS

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

P2.07

DSA RESUBMITTAL II



1 OVERALL PLUMBING PLAN - ROOF
1/8" = 1'-0"

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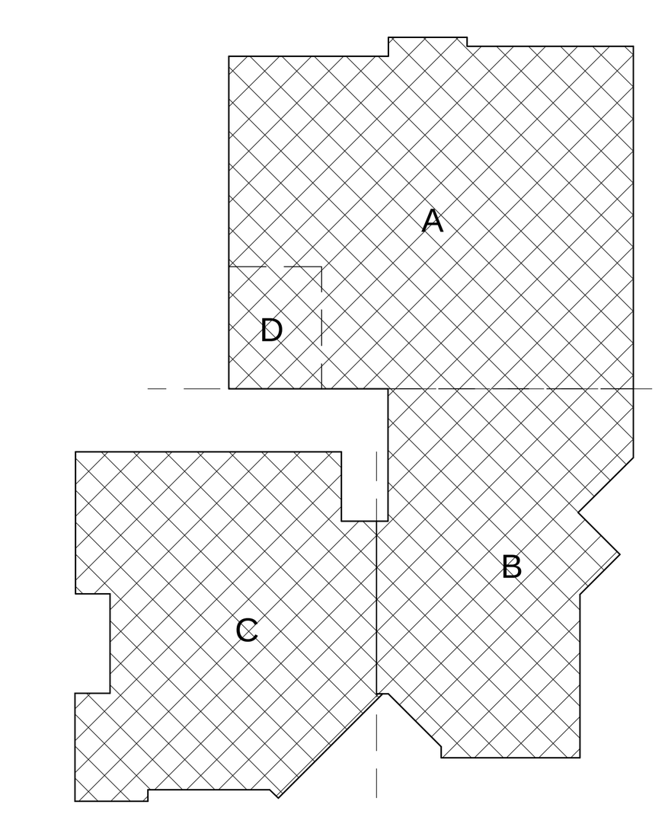
1	ADDENDUM #1	3/30/18



KEY PLAN

ARCHITECT'S STAMP

APPROVAL

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
02-115990
AC___ FLS___ SS___
DATE ___

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

CONSULTANT

TURLEY & ASSOCIATES MECHANICAL ENGINEERING GROUP, INC.

Project Engineer	BP	Job Number	15247
Project Manager	NG	Plot Date	
Project Drafter	WR	Login	

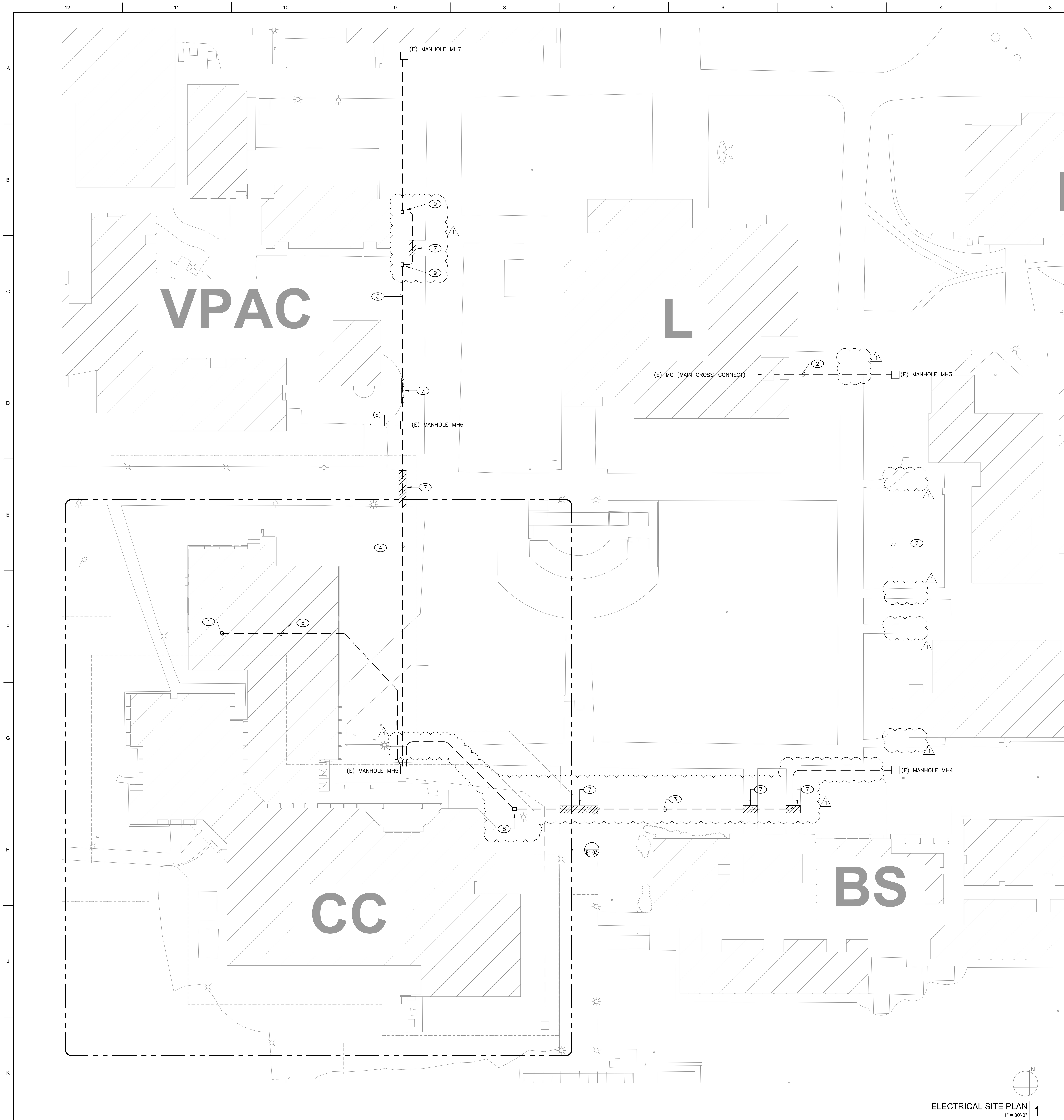
OVERALL PLUMBING PLAN - ROOF

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

P3.01

DSA RESUBMITTAL II



ELECTRICAL SITE PLAN 1
1" = 30'-0"

KEY NOTES

1. PULL A BERK-TEK SINGLE-MODE, ARMORED, 96-STRAND, INDOOR/OUTDOOR FIBER OPTIC CABLE FROM CRC COLLEGE CENTER EXPANSION MPOE ROOM TO THE MAIN MC IN THE LIBRARY BUILDING, USING EXISTING AND NEW CONDUITS AS SPECIFIED IN THIS DRAWING.
2. INSTALL A (N) 96-STRAND SINGLE-MODE FIBER OPTIC CABLE IN (E) COMMUNICATION CONDUIT ALONG EXISTING PATHWAY.
3. PROVIDE TWO (2) 4"C, FROM THE EXISTING MANHOLE MH4 TO THE EXISTING MANHOLE MH5; ONE FOR (N) 96-STRAND SINGLE-MODE FIBER OPTIC CABLE.
4. PROVIDE TWO (2) 4"C TO THE EXISTING SIGNAL DUCT-BANK, FROM THE EXISTING MANHOLE MH5 TO THE EXISTING MANHOLE MH6 FOR COMMUNICATION SYSTEM.
5. PROVIDE ONE (1) 4"C WITH 96-STRAND SINGLE-MODE FIBER OPTIC CABLE TO THE EXISTING SIGNAL DUCT-BANK FROM THE EXISTING MANHOLE MH6 TO THE EXISTING MANHOLE MH7.
6. PROVIDE THREE (3) 4"C TO THE EXISTING SIGNAL DUCT-BANK WITH 96-STRAND SINGLE MODE FIBER OPTIC CABLE IN (1) 4"C. FROM THE EXISTING MANHOLE MH5 TO CRC COLLEGE CENTER EXPANSION MPOE ROOM. 1
7. SAW CUT THROUGH (E) HARDSCAPE WHERE REQUIRED. RESTORE AREAS DISTURBED BACK TO ORIGINAL CONDITION.
8. 36" X 28" PULL BOX (LABEL "FIBER"). 1
9. 32 X 24" PULL BOX (LABEL "FIBER").

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO NOT DAMAGE TREE ROOTS. RESTORE AREAS DISTURBED BACK TO ORIGINAL CONDITION.

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

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ARCHITECT'S STAMP APPROVAL

CONSULTANT

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER E16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

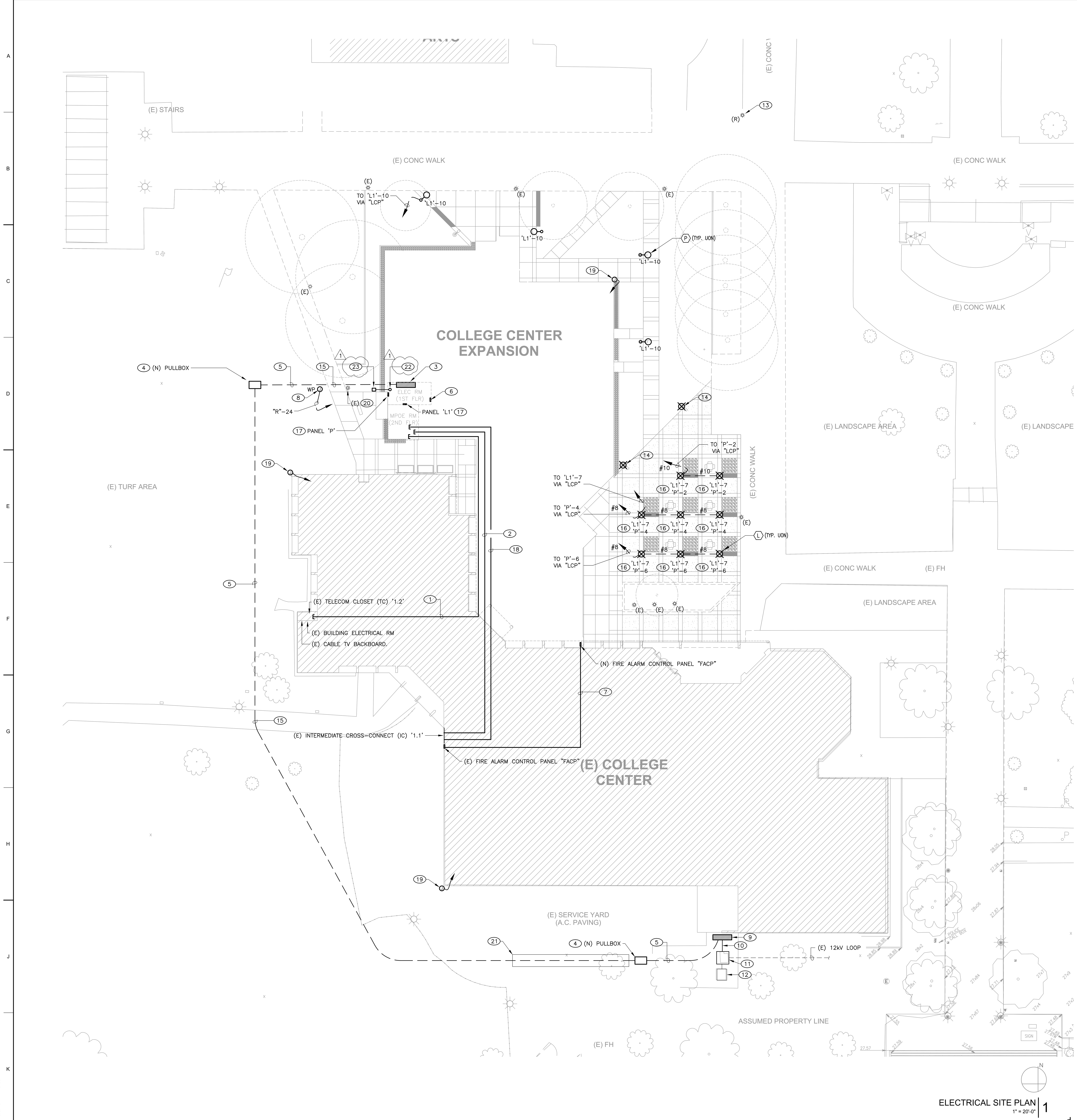
ELECTRICAL SITE PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E1.02

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



ELECTRICAL SITE PLAN | 1
1" = 20'-0"

KEY NOTES

(1) PROVIDE AND INSTALL TWO (2) 2"EC FROM ELECTRICAL ROOM IN (E) BUILDING TO CRC COLLEGE CENTER EXPANSION MPOE RM FOR DATA ROUTED ABOVE CEILING. PROVIDE ONE (1) 2"C WITH 25PR CAT5E POWERSUM TIE CABLE + ONE (1) 24 STRAND SINGLE-MODE FIBER LC/LC FROM EXISTING TELECOM CLOSET 1.2 TO SECOND FLOOR MPOE RM ROUTED ABOVE CEILING. PROVIDE ONE (1) 2"EC FROM ELECTRICAL ROOM IN (E) BLD TO CRC COLLEGE CENTER EXPANSION MPOE ROOM FOR CABLE TV.

(2) PROVIDE AND INSTALL ONE (1) 4"C + TWO (2) 2"C TO CRC COLLEGE CENTER EXPANSION MPOE ROOM ROUTED ABOVE CEILING.

(3) (N) DISTRIBUTION PANEL "DP" IN FIRST FLOOR ELEC RM. REFER TO THE ONE LINE DIAGRAM ON SHEET E7.01 FOR MORE INFORMATION.

(4) (N) 60"x60" ELECTRICAL PULLBOX.

(5) (N) U/G FEEDER FROM "MSB" TO NEW DISTRIBUTION PANEL "DP". REFER TO THE ONE LINE DIAGRAM ON SHEET E7.01 FOR MORE INFORMATION.

(6) (N) LIGHTING CONTROL PANEL 'LCP'. LOCATED IN 1ST FLOOR ELECTRICAL ROOM.

(7) INTERCONNECTION BETWEEN EXISTING FACP AND NEW FACP. SEE FIRE ALARM PLANS FOR MORE INFORMATION.

(8) RELOCATED IRRIGATION CONTROLLER BY OTHERS. REFER TO LANDSCAPE DRAWINGS FOR EXACT LOCATION.

(9) (E) 2000 AMP SWITCHBOARD; REPLACE WITH A NEW 3000A MAIN SWITCHBOARD, "MSB". VERIFY AVAILABLE SPACE FOR THE SWITCHBOARD BEFORE ORDERING. REFER TO THE ONE LINE DIAGRAM ON SHEET E7.01 FOR MORE INFORMATION.

(10) (N) SECONDARY CONDUCTORS. SEE ONE LINE DIAGRAM FOR MORE INFORMATION.

(11) (E) 500kVA, 12/0.208kV PAD MOUNTED TRANSFORMER; REPLACE WITH A 1000kVA, 12/0.208kV PAD MOUNTED TRANSFORMER.

(12) (E) 12kV SWITCHGEAR. REFER TO THE ONE LINE DIAGRAM ON SHEET E7.01 FOR MORE INFORMATION.

(13) RELOCATE EXISTING LIGHT FIXTURE HERE PER KEY NOTE 6 SHEET ED1.01. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS. △1

(14) CONNECT (N) LIGHT FIXTURE USING EXISTING CIRCUITS PER SHEET ED1.01.

(15) (N) UNDERGROUND FEEDER, BORE DRILL UNDER EXISTING WALKWAY.

(16) PROVIDE 120V CIRCUIT FROM LIGHTING PANEL 'L1' TO POWER BOLLARD LIGHT. PROVIDE 120V CIRCUIT FROM POWER PANEL 'P' TO SUPPLY POWER FOR RECEPTACLE AND USB CHARGING STATION. ROUTE BOTH LIGHTING CIRCUIT AND POWER CIRCUIT THROUGH LIGHTING CONTROL PANEL 'LCP'. POWER/CHARGING CIRCUIT TO BOLLARDS SHALL ONLY BE ENERGIZED DURING CAMPUS HOURS. POWER/CHARGING CIRCUIT SHALL BE TURNED OFF AFTER HOURS.

(17) PANEL LOCATED IN FIRST FLOOR ELECTRICAL ROOM.

(18) PROVIDE ONE (1) 2"C WITH 25 PAIR CAT 5E POWERSUM TIE CABLE TO FIRST FLOOR IDF ROOM.

(19) FUTURE 270° CAMERA BY OWNER. CAMERA TO BE MOUNTED 12'-15' A.F.F. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH LOS RIOS COMMUNITY COLLEGE DISTRICT. PROVIDE 3/4"EC BACK TO SECOND FLOOR IDF ROOM.

(20) RESET EXISTING POLE LIGHT AND UNDERGROUND PULL BOX PER DEMOLITION ELECTRICAL SITE PLAN, SHEET ED1.01, KEY NOTE 8. PROVIDE NEW POLE BASE AND UNDERGROUND PULL BOX AS REQUIRED (MATCH EXISTING) AND RECONNECT AS BEFORE.

(21) COORDINATE THIS PORTION OF WORK WITH DISTRICT TO SCHEDULE FOR ALL REQUIRED TRUCK TRAFFIC AND OTHER REQUIRED TRAFFIC.

△1 (22) STUB UP (2) 2"C.O. (SPARE), (2) 1"C.O. (SPARE), AND (1) 1"C.O. (SPARE FLAG POLE LIGHTING) FROM ELECTRICAL ROOM TO UNDERGROUND PULL BOX (SEE KEY NOTE 23).

(23) (N) 22' X 18" ELECTRICAL PULL BOX.

GENERAL NOTES

1. ELECTRICAL CONTRACTOR TO NOT DAMAGE TREE ROOTS. RESTORE AREAS DISTURBED BACK TO ORIGINAL CONDITION.

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

LICENSED ARCHITECT — TROY PENNINGTON C-31285 — 5-31-19 RENEWAL DATE — STATE OF CALIFORNIA

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ARCHITECT'S STAMP APPROVAL

CONSULTANT
LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER — JINGPEI ZHANG — E 16243 — EXP. 12-31-18 — ELECTRICAL — STATE OF CALIFORNIA

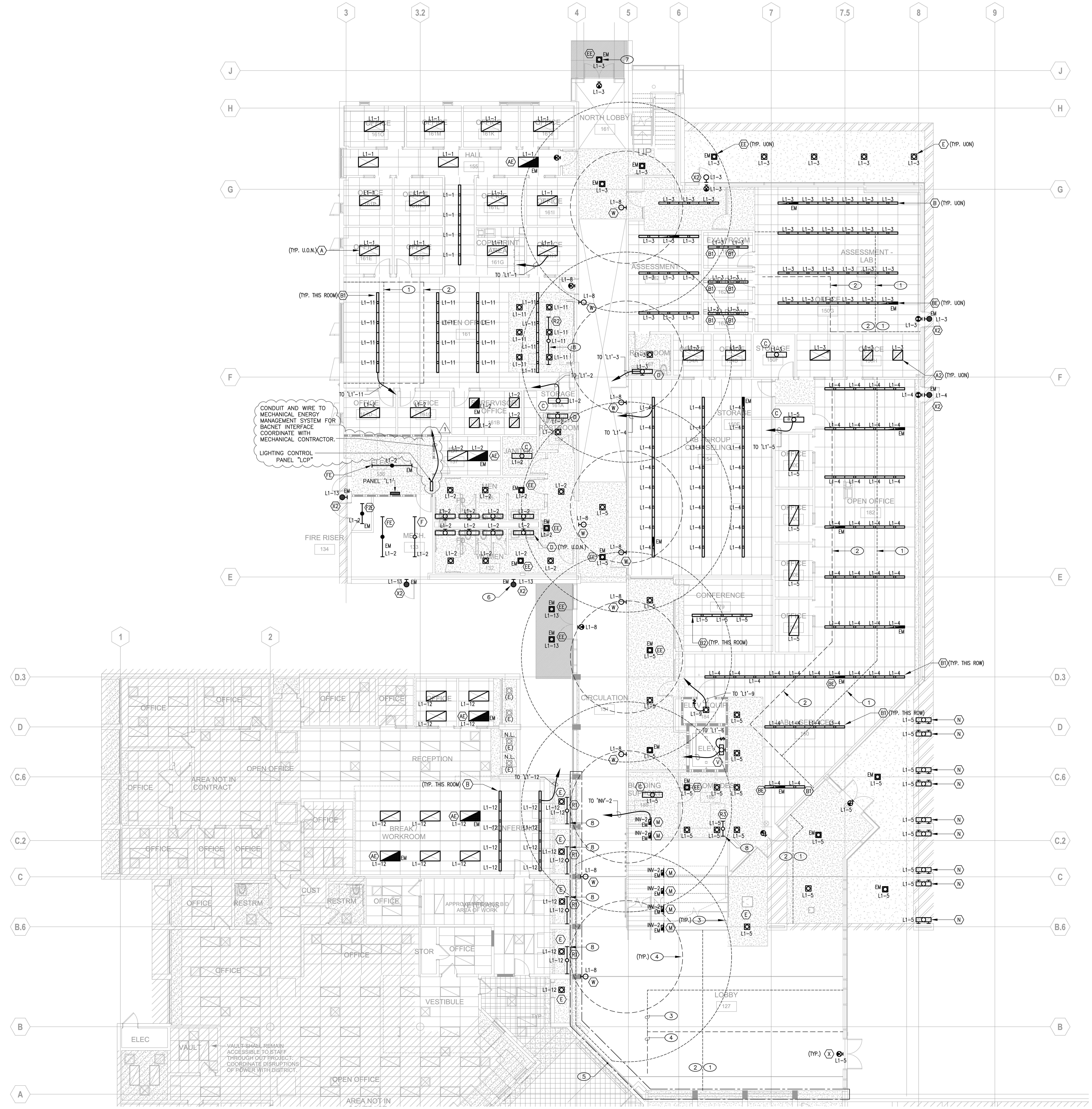
ENLARGED ELECTRICAL SITE PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E1.03

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



BASE BID - 1ST FLOOR LIGHTING PLAN 1
1/8" = 1'-0"

KEY NOTES

1. PRIMARY SIDELIT DAYLIT ZONE.
2. SECONDARY SIDELIT DAYLIT ZONE.
3. 1ST FLOOR SKYLIT DAYLIT ZONE FROM SKYLIGHTS IN 2ND FLOOR CEILING. DAYLIT ZONE ONLY APPLICABLE IN OPEN CIRCULATION AREA AND LOBBY. SKYLIGHTS ARE ADDITIONAL ALTERNATE #3.
4. 2ND FLOOR SKYLIT DAYLIT ZONE FROM SKYLIGHTS ABOVE. DAYLIT ZONE ONLY APPLICABLE IN OPEN CIRCULATION AREA AND LOBBY. SKYLIGHTS ARE ADDITIONAL ALTERNATE #3.
5. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9/E8.02.
6. MATCH MOUNTING HEIGHT WITH OTHER ABOVE-DOOR FIXTURE X2 ON THIS WALL.
7. THIS FIXTURE TO BE MOUNTED IN THE CENTER OF CANOPY. ADD ALT 4 CHANGES SIZE OF THIS CANOPY. THIS FIXTURE TO BE SHIFTED SLIGHTLY TO BE MOUNTED IN CENTER OF CANOPY FOR ADD ALT 4.
8. LED COVE LIGHT MOUNTED IN DESK CASEWORK. REFER TO ARCHITECTURAL CASEWORK DETAILS, SHEET A9.82, DETAILS C5 AND K5 FOR MORE INFORMATION. (1)

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, RECEPTACLE COVERPLATES, AND JUNCTION BOX COVERPLATES IN AREAS OF MODERNIZATION.
2. SEE SHEET E2.06 FOR LIGHT FIXTURE SCHEDULE.

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COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS ____ SS____
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Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER JINGPEI ZHANG E 16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

1ST FLOOR LIGHTING PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E2.01A

DSA SUBMITTAL II

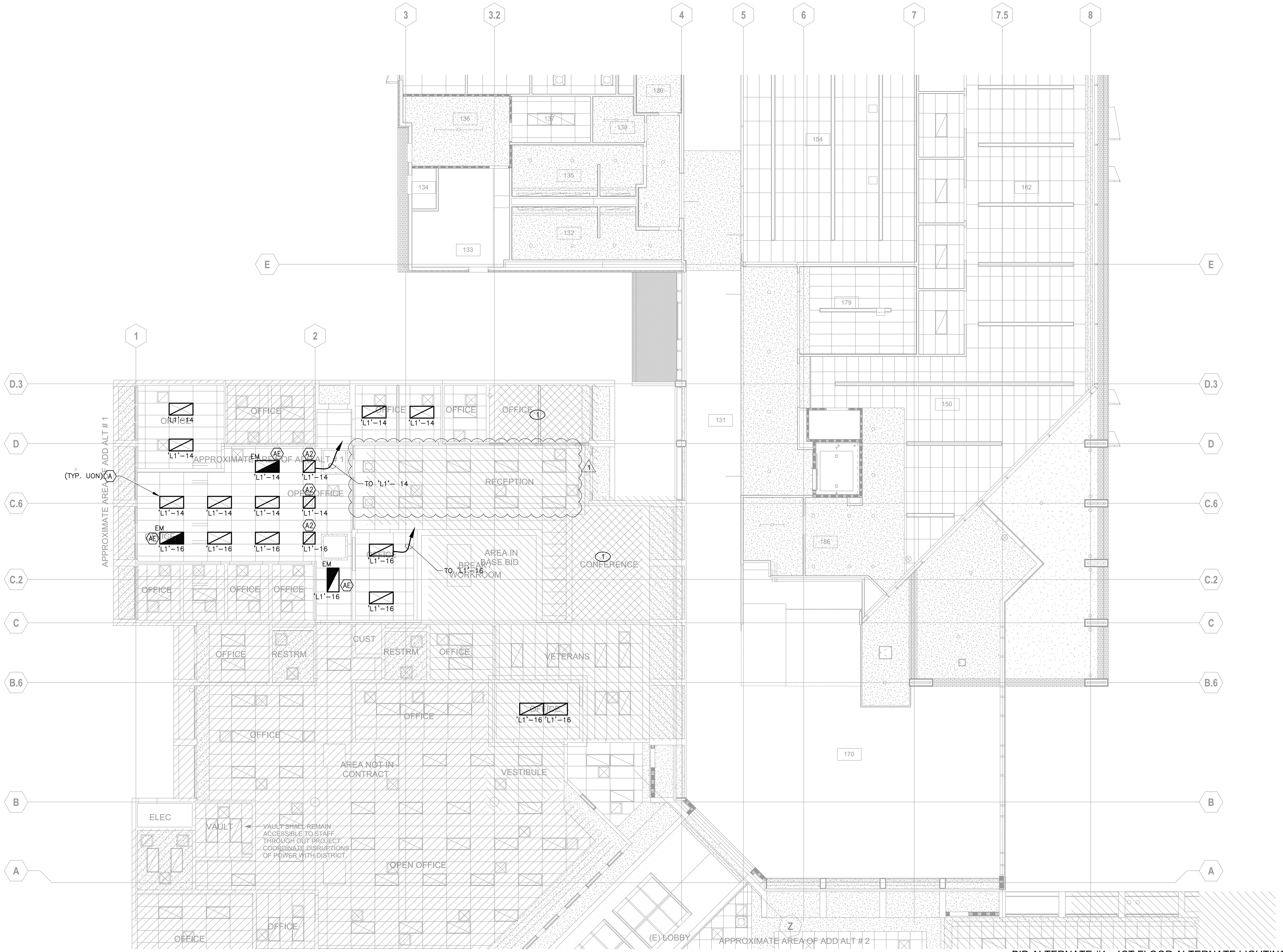
6/8/2017 7:46:09 AM

KEY NOTES

1. UNDER BASE BID SCOPE. FOR WORK IN THIS AREA SEE SHEET E2.01A.

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, RECEPTACLE COVERPLATES, AND JUNCTION BOX COVERPLATES IN AREAS OF MODERNIZATION.



BID ALTERNATE #1 - 1ST FLOOR ALTERNATE LIGHTING PLAN 1
1/8" = 1'-0"

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1ST FLOOR ALT LIGHTING PLAN

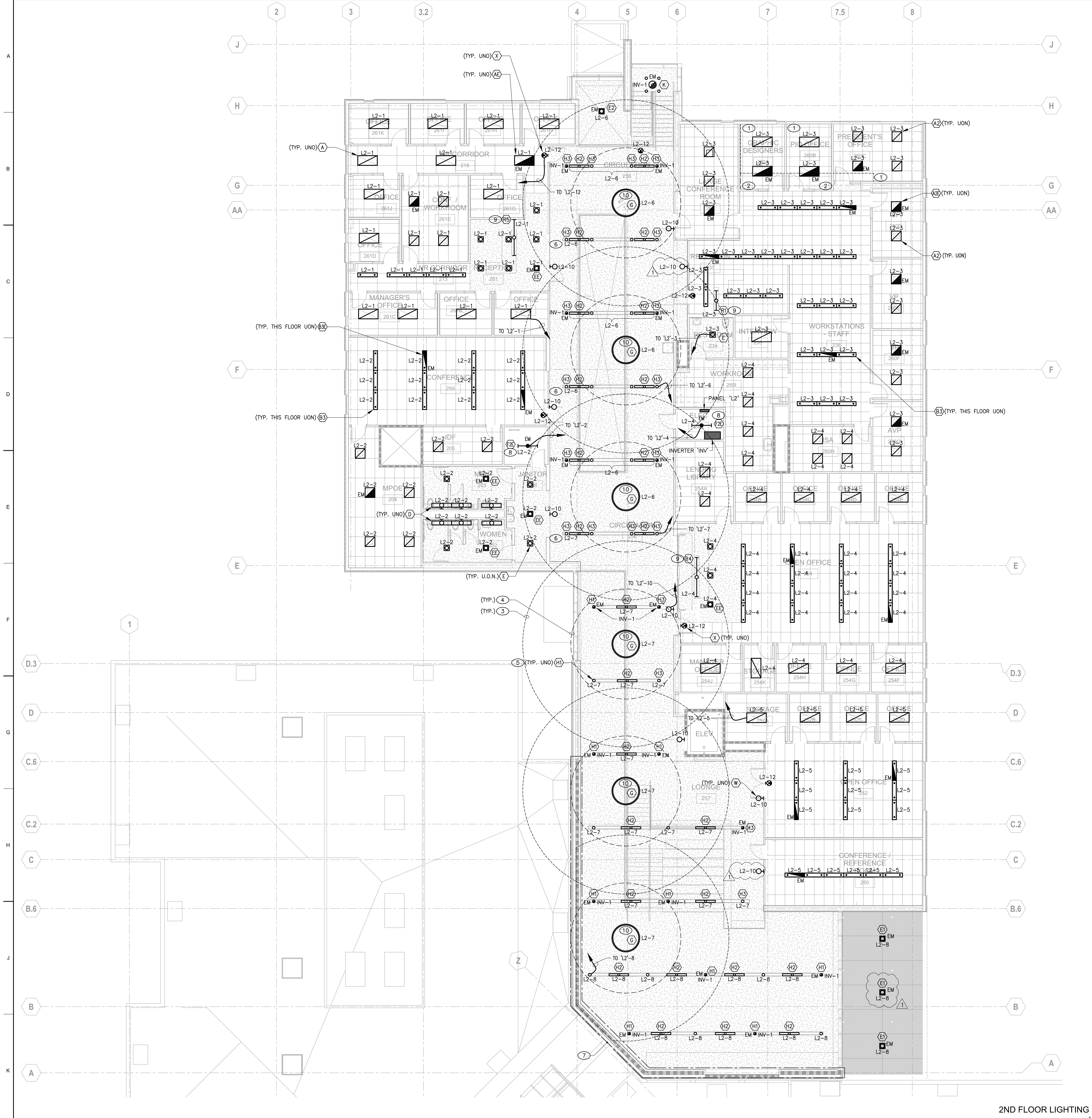
PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E2.01B

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



2ND FLOOR LIGHTING PLAN 1
1/8" = 1'-0"

KEY NOTES

1. PRIMARY SIDELIT DAYLIT ZONE.
2. SECONDARY SIDELIT DAYLIT ZONE.
3. 1ST FLOOR SKYLIT DAYLIT ZONE FROM SKYLIGHTS IN 2ND FLOOR CEILING. DAYLIT ZONE ONLY APPLICABLE IN OPEN CIRCULATION AREA AND LOBBY. SKYLIGHTS ARE PART OF ADDITIONAL ALTERNATE #3.
4. 2ND FLOOR SKYLIT DAYLIT ZONE FROM SKYLIGHTS ABOVE. DAYLIT ZONE ONLY APPLICABLE IN OPEN CIRCULATION AREA AND LOBBY. SKYLIGHTS ARE PART OF ADDITIONAL ALTERNATE #3.
5. DOWNLIGHT RECESSED IN MULTI-DISCIPLINE RECESSED TRACK, TYPICAL.
6. TYPICAL, THIS ROW.
7. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9/E8.02.
8. SPECIFY "AYC-CHAIN/SET" ACCESSORY FOR FIXTURE TYPE F2E IN THIS ROOM.
9. LED COVE LIGHT MOUNTED IN DESK CASEWORK. REFER TO ARCHITECTURAL CASEWORK DETAILS, SHEET A9.82 FOR MORE INFORMATION.
10. LED FIXTURE IS PART OF ADDITIONAL ALTERNATE #3.

GENERAL NOTES

1. SEE SHEET E2.06 FOR LIGHT FIXTURE SCHEDULE.

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REGISTERED PROFESSIONAL ENGINEER E16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

2ND FLOOR LIGHTING PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E2.02

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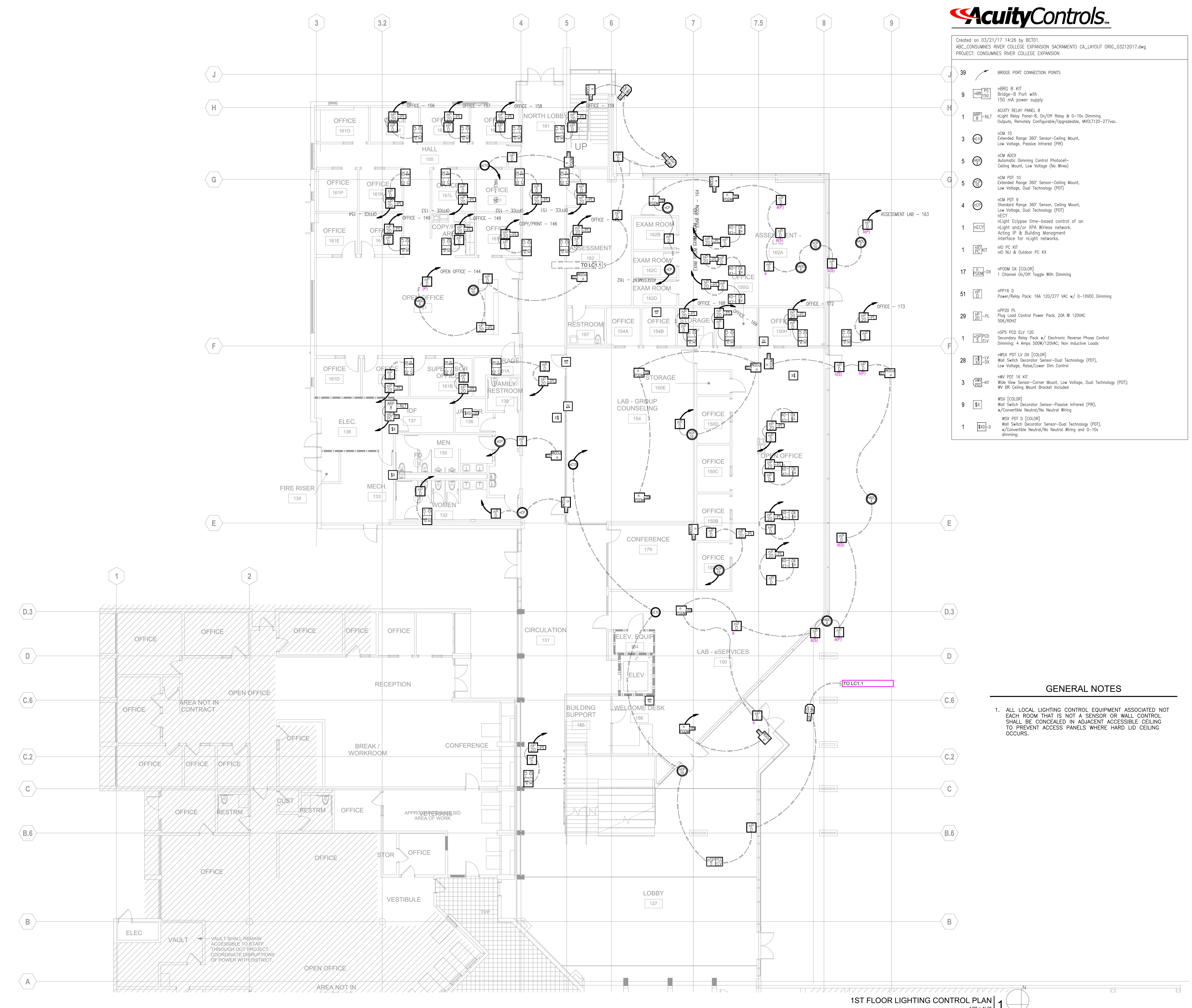

1ST FLOOR LIGHTING CONTROL PLAN 1
1/8" = 1'-0"

AcuityControls™

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ABC_CONSUMNES RIVER COLLEGE EXPANSION SACRAMENTO CA_LAYOUT ORIG_03212017.dwg
PROJECT: CONSUMNES RIVER COLLEGE EXPANSION

Qty	Symbol	Description
39	(arrow)	BRIDGE PORT CONNECTION POINTS
9	nB8 PS 150	nBRG 8 KIT Bridge-8 Port with 150 mA power supply
1	ARP 8 -NLT	ACUITY RELAY PANEL 8 nLight Relay Panel-8, On/Off Relay & 0-10v Dimming Outputs, Remotely Configurable/Upgradeable, MVOLT120-277vac.
3	nC10	nCM 10 Extended Range 360° Sensor-Ceiling Mount, Low Voltage, Passive Infrared (PIR)
5	nADC X	nCM ADCX Automatic Dimming Control Photocell- Ceiling Mount, Low Voltage (No Wires)
5	nCP 10	nCM PDT 10 Extended Range 360° Sensor-Ceiling Mount, Low Voltage, Dual Technology (PDT)
4	nCP	nCM PDT 9 Standard Range 360° Sensor, Ceiling Mount, Low Voltage, Dual Technology (PDT)
1	nECY	nECY nLight Eclypse time-based control of an nLight and/or XPA Wirless network. Acting IP & Building Managment interface for nLight networks.
1	nIO PC KIT	nIO PC KIT nIO NLI & Outdoor PC Kit
17	n PODM -DX	nPODM DX [COLOR] 1 Channel On/Off Toggle With Dimming
51	nP D	nPP16 D Power/Relay Pack: 16A 120/277 VAC w/ 0-10VDC Dimming
29	nP 20 -PL	nPP20 PL Plug Load Control Power Pack; 20A @ 120VAC 506/60HZ
1	nSP 5 PCD ELV	nSP5 PCD ELV 120 Secondary Relay Pack w/ Electronic Reverse Phase Control Dimming: 4 Amps 500W/120VAC; Non Inductive Loads
28	n$ XD -LV -DX	nWSX PDT LV DX [COLOR] Wall Switch Decorator Sensor-Dual Technology (PDT), Low Voltage; Raise/Lower Dim Control
3	nWV PDT -KIT	nWV PDT 16 KIT Wide View Sensor-Corner Mount, Low Voltage, Dual Technology (PDT); WV BR Ceiling Mount Bracket Included
9	$X	WSX [COLOR] Wall Switch Decorator Sensor-Passive Infrared (PIR), w/Convertible Neutral/No Neutral Wiring
1	$XD -D	WSX PDT D [COLOR] Wall Switch Decorator Sensor-Dual Technology (PDT), w/Convertible Neutral/No Neutral Wiring and 0-10v dimming;

GENERAL NOTES

1. ALL LOCAL LIGHTING CONTROL EQUIPMENT ASSOCIATED NOT EACH ROOM THAT IS NOT A SENSOR OR WALL CONTROL SHALL BE CONCEALED IN ADJACENT ACCESSIBLE CEILING TO PREVENT ACCESS PANELS WHERE HARD LID CEILING OCCURS.

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COSUMNES RIVER COLLEGE

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Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER
E16243
EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

1ST FLOOR LIGHTING CONTROLS PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E2.03 1

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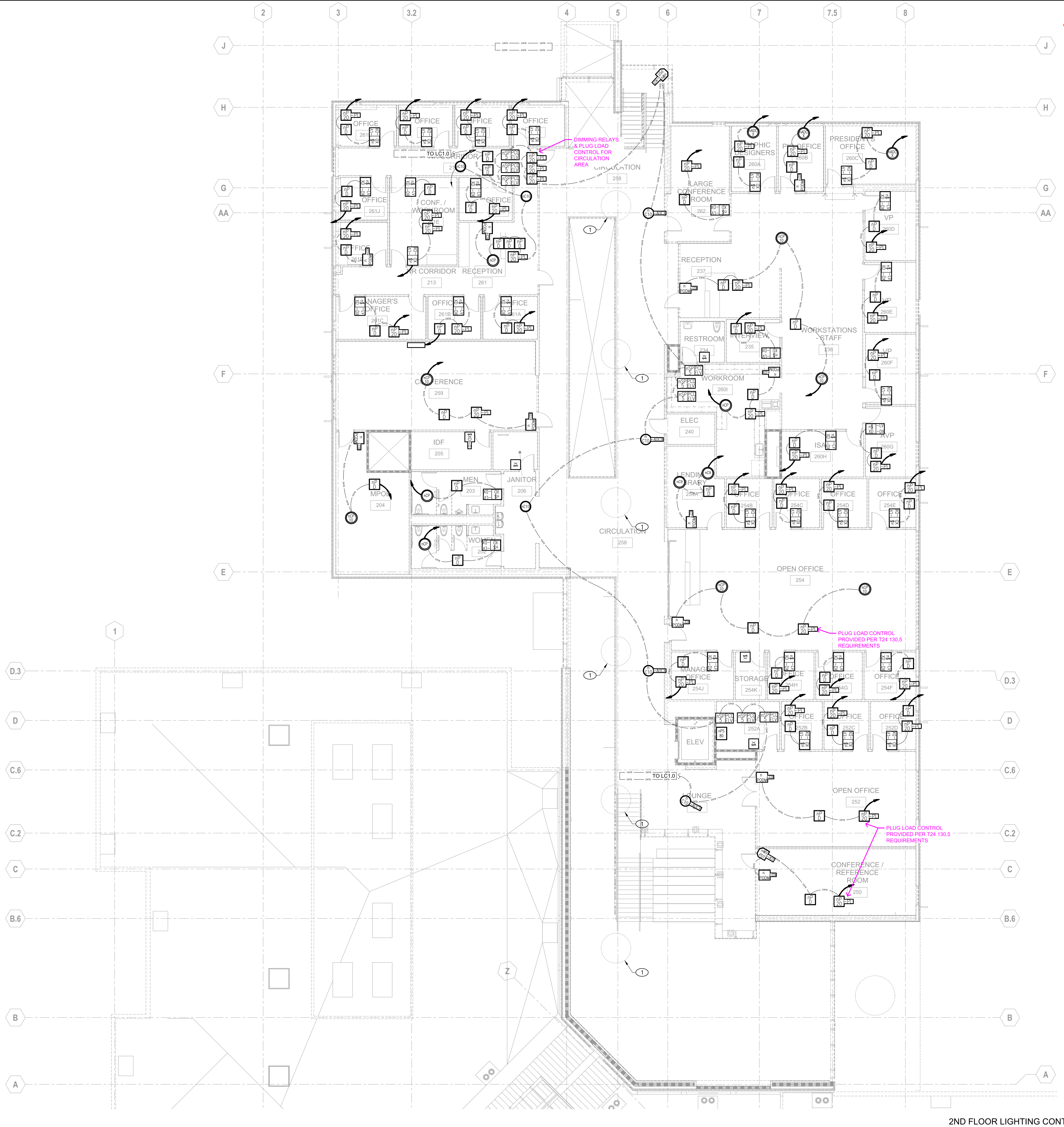
6/8/2017 7:46:09 AM



2ND FLOOR LIGHTING CONTROL PLAN 1
1/8" = 1'-0"

6/8/2017 7:46:09 AM

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ABC_CONSUMNES RIVER COLLEGE EXPANSION SACRAMENTO CA_LAYOUT ORIG_03212017.dwg
PROJECT: CONSUMNES RIVER COLLEGE EXPANSION

42	(arrow)	BRIDGE PORT CONNECTION POINTS
10	nB8 PS 150	nBRG 8 KIT Bridge-8 Port with 150 mA power supply
3	nC10	nCM 10 Extended Range 360° Sensor–Ceiling Mount, Low Voltage, Passive Infrared (PIR)
4	nC10-ADCX	nCM 10 ADCX Extended Range 360° Sensor–Ceiling Mount, Low Voltage, Passive Infrared (PIR): Photocell w/ Dimming (No Wires)
2	nC9	nCM 9 Standard Range 360° Sensor–Ceiling Mount, Low Voltage, Passive Infrared (PIR)
3	nADCX	nCM ADCX Automatic Dimming Control Photocell– Ceiling Mount, Low Voltage (No Wires)
6	nCP 10	nCM PDT 10 Extended Range 360° Sensor–Ceiling Mount, Low Voltage, Dual Technology (PDT)
4	nCP	nCM PDT 9 Standard Range 360° Sensor, Ceiling Mount, Low Voltage, Dual Technology (PDT)
11	n PODM-DX	nPODM DX [COLOR] 1 Channel On/Off Toggle With Dimming
48	nP D	nPP16 D Power/Relay Pack: 16A 120/277 VAC w/ 0–10VDC Dimming
43	nP 20-PL	nPP20 PL Plug Load Control Power Pack; 20A @ 120VAC 506/60HZ
1	nPS 80	nPS 80 nLight Power Supply 120/277 VAC, 80mA, CAT–5
9	nSP 5 PCD ELV	nSP5 PCD ELV 120 Secondary Relay Pack w/ Electronic Reverse Phase Control Dimming: 4 Amps 500W/120VAC; Non Inductive Loads
33	n$ XD-LV-DX	nWSX PDT LV DX [COLOR] Wall Switch Decorator Sensor–Dual Technology (PDT), Low Voltage; Raise/Lower Dim Control
2	nWV PDT-KIT	nWV PDT 16 KIT Wide View Sensor–Corner Mount, Low Voltage, Dual Technology (PDT); WV BR Ceiling Mount Bracket Included
4	$X	WSX [COLOR] Wall Switch Decorator Sensor–Passive Infrared (PIR), w/Convertible Neutral/No Neutral Wiring
1	$XD-D	WSX PDT D [COLOR] Wall Switch Decorator Sensor–Dual Technology (PDT), w/Convertible Neutral/No Neutral Wiring and 0–10v dimming;

GENERAL NOTES

1. ALL LOCAL LIGHTING CONTROL EQUIPMENT ASSOCIATED NOT EACH ROOM THAT IS NOT A SENSOR OR WALL CONTROL SHALL BE CONCEALED IN ADJACENT ACCESSIBLE CEILING TO PREVENT ACCESS PANELS WHERE HARD LID CEILING OCCURS.

KEY NOTES

1. PHOTOCELL FOR SKYLIGHTS ARE ADDITIVE ALTERNATES #3.

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EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

2ND FLOOR LIGHTING CONTROLS PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E2.04

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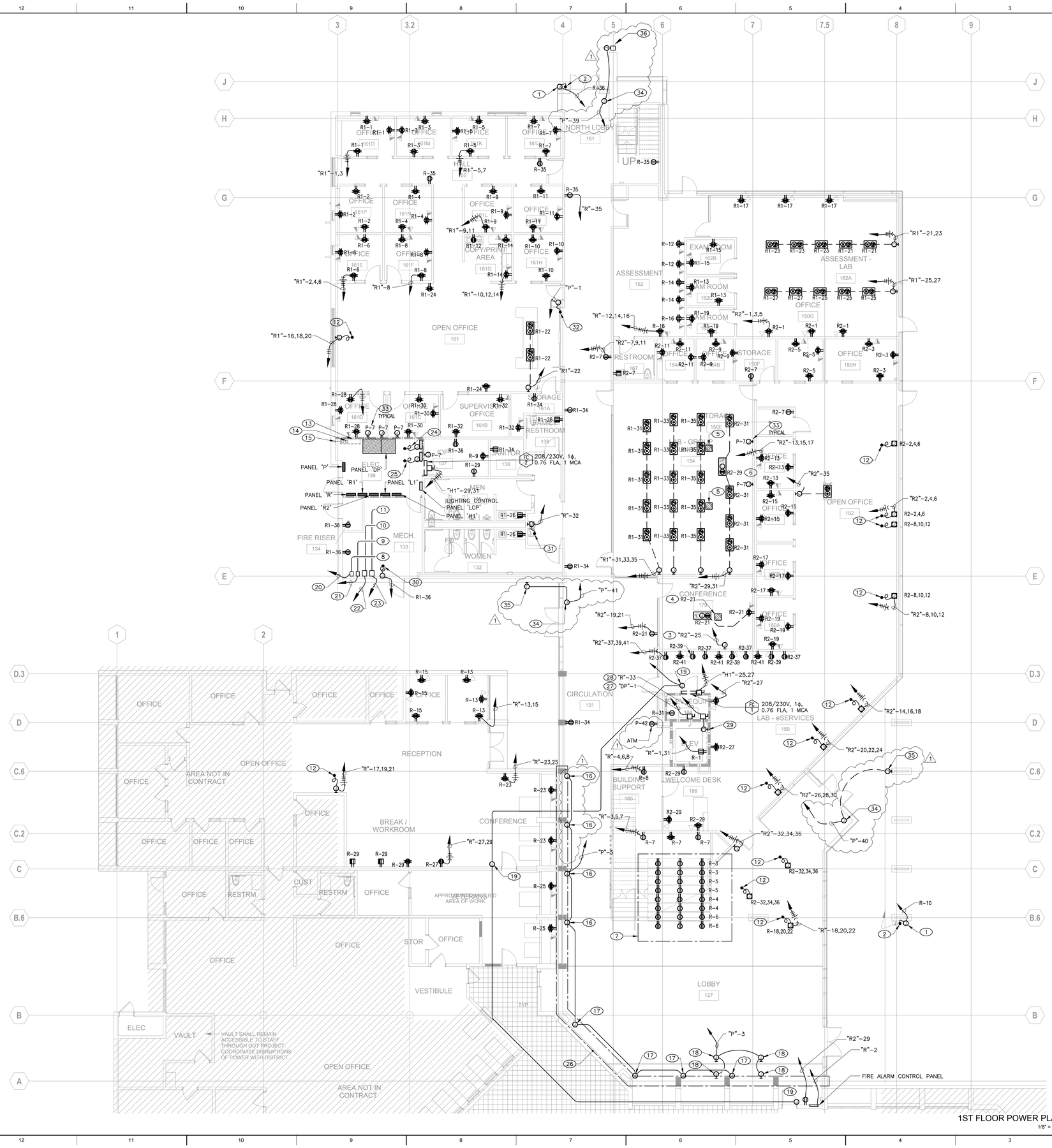

1ST FLOOR POWER PLAN 1
1/8" = 1'-0"

KEY NOTES

① EMERGENCY PHONE. VERIFY LOCATION WITH ARCHITECT. PROVIDE NECESSARY COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. PROVIDE LIGHTNING SURGE PROTECTION MODULES AS FOLLOWS:
PART # 25–175 SERIES (GAS TUBES PROTECTOR MODULES)
PART # 25025–110–M110 (ENTRANCE TERMINAL)

② PROVIDE 120VAC POWER CONNECTION TO EMERGENCY PHONE, EACH PHONE TO HAVE SEPARATE DEDICATED CIRCUIT.

③ DEDICATED CIRCUIT FOR WALL JUNCTION BOX WITH A/V CONTROLLER.

④ CEILING RECEPTACLE TO POWER PROJECTOR. PRIOR TO INSTALLATION VERIFY LOCATION WITH OWNER.

⑤ CEILING RECEPTACLE TO POWER PROJECTOR FED BY CIRCUIT "R2"–33. PRIOR TO INSTALLATION VERIFY LOCATION WITH OWNER.

⑥ "R2"–29 (DEDICATED CIRCUIT FOR SMART PODIUM AT TEACHER STATION).

⑦ SPECIAL USB CHARGING TYPE DUPLEX RECEPTACLES IN THIS AREA. RECEPTACLES SHALL BE HALF DUPLEX HALF USB OUTLET, LEGRAND MODEL #ARUSBW4 & #ARTR202W4 WITH COVER PLATE LEGRAND #AWP1G3WHW4.

⑧ 'HWP–1' 208V/3ϕ, 5 HP, 17.5 FLA, 35 MOCP PUMP.

⑨ 'HWP–2' 208V/3ϕ, 5 HP, 17.5 FLA, 35 MOCP PUMP.

⑩ 'CHWP–3' 208V/3ϕ, 15 HP, 48.3 FLA, 90 MOCP PUMP.

⑪ 'CHWP–4' 208V/3ϕ, 15 HP, 48.3 FLA, 90 MOCP PUMP.

⑫ FURNITURE FEED. EACH OPEN OFFICE CUBICLE/PRIVATE OFFICE SHALL HAVE CONTROLLED AND NON–CONTROLLED RECEPTACLES PER TITLE 24. CONTROLLED RECEPTACLES SHALL BE CONTROLLED VIA NEAREST CEILING MOUNTED OCCUPANCY SENSOR AND ROOM CONTROLLER. SEE LIGHTING CONTROL DIAGRAMS.

⑬ PERMANENTLY MARK RESERVED SPACE "FOR FUTURE SOLAR ELECTRIC".

⑭ FUTURE PATHWAY FROM SOLAR ELECTRIC EQUIPMENT UP TO ROOF FUTURE SOLAR ZONE. PROVIDE 4"C SPARE FROM ELECTRICAL ROOM CAPPED BELOW ROOF AT BOTH FUTURE SOLAR ZONES. LOCATION MARKED BY KEYNOTE #8 ON ROOF POWER PLAN SHEET E3.03.

⑮ FUTURE PATHWAY FROM SOLAR ELECTRIC EQUIPMENT TO INTERCONNECTION OF ELECTRICAL SERVICE.

⑯ ONE FIRE SHUTTER AND ONE FIRE CURTAIN AT THIS LOCATION (ONE ON EACH SIDE OF WALL). SEE ARCHITECTURAL DETAIL F10/A9.11. COORDINATE ELECTRICAL REQUIREMENTS WITH SHUTTER CURTAIN SUPPLIER AND PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. NO EXPOSED CONDUIT OR BOXES ALLOWED FOR THESE SYSTEMS.

⑰ TWO FIRE CURTAINS AT THIS LOCATION ONE AT EACH SIDE OF WALL). SEE ARCHITECTURAL DETAIL F10/A9.11. COORDINATE ELECTRICAL REQUIREMENTS WITH CURTAIN SUPPLIER AND PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM. NO EXPOSED CONDUIT OR BOXES ALLOWED FOR THESE SYSTEMS. 1

⑱ ADD ALT #6. LED DISPLAY (TYP. OF 4). COORDINATE EXACT MOUNTING LOCATION WITH ARCHITECT.

⑲ DOOR HOLD.

⑳ VFD–1 SERVING 208V/3ϕ, 5HP PUMP 'HWP–1'. PROVIDE AND INSTALL ONE 3/4"C, WITH 4#12 AWG CU + 1#12 AWG CU GND, HOME RUN TO PANEL "H1"–1,3,5.

㉑ VFD–2 SERVING 208V/3ϕ, 5HP PUMP 'HWP–2'. PROVIDE AND INSTALL ONE 3/4"C, WITH 4#12 AWG CU + 1#12 AWG CU GND, HOME RUN TO PANEL "H1"–7,9,11.

㉒ VFD–3 SERVING 208V/3ϕ, 15HP PUMP 'CHWP–3'. PROVIDE AND INSTALL ONE 1"C, WITH 4#6 AWG CU + 1#8 AWG CU GND, HOME RUN TO PANEL "H1"–13,15,17.

㉓ VFD–4 SERVING 208V/3ϕ, 15HP PUMP 'CHWP–4'. PROVIDE AND INSTALL ONE 1"C, WITH 4#6 AWG CU + 1#8 AWG CU GND, HOME RUN TO PANEL "H1"–19,21,23.

㉔ PROVIDE DEDICATED 120VAC POWER CONNECTION TO FIRE ALARM POWER SUPPLY 'FAPS1' FROM CIRCUIT 'R'–26. PROVIDE DEDICATED 120VAC POWER CONNECTION TO EMERG. COMMUNICATION SYSTEM POWER SUPPLY 'ECPS1' FROM CIRCUIT 'R'–34.

㉕ PROVIDE DEDICATED 120VAC POWER CONNECTION TO FIRE ALARM EVAC1 AMP FROM CIRCUIT 'R'–28.

㉖ AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9 ON SHEET E8.02.

㉗ ELEVATOR CONTROLLER 208V, 3ϕ, VERIFY HORSE POWER WITH ELEVATOR SUPPLIER. PROVIDE DISCONNECT SWITCH AND SHUNT TRIP PER ONE LINE DIAGRAM ON SHEET E7.01. LABEL IDENTIFYING LOCATION OF POWER SUPPLY. 1

㉘ PROVIDE LOCK–ABLE 30 AMP DISCONNECT SWITCH WITH 20 AMP FUSE FOR ELEVATOR CAB LIGHTING AND VENTILATION. LABEL IDENTIFYING LOCATION OF POWER SUPPLY.

㉙ COORDINATE LOCATION WITH ELEVATOR INSTALLER FOR ELEVATOR CAB LIGHTING AND POWER.

㉚ PROVIDE 120VAC POWER CONNECTION TO BUILDING MANAGEMENT SYSTEM CONTROL PANEL.

㉛ PROVIDE 120VAC POWER CONNECTION TO ELECTRIC DRINKING FOUNTAIN.

㉜ PROVIDE 120VAC POWER CONNECTION TO OVERHEAD DOOR. COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR VENDOR.

㉝ PROVIDE 120VAC POWER CONNECTION TO FIRE SMOKE DAMPERS. COORDINATE ELECTRICAL REQUIREMENTS WITH MECHANICAL.

㉞ MOTORIZED DOOR.

㉟ ADA PUSH PAD, +48" A.F.G.

(36) ADA PUSH PAD, +48" A.F.G. MOUNT ON POST (BASE BID) MOUNT ON WALL (ADDITIVE ALTERNATE) 1

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, RECEPTACLE COVERPLATES, AND JUNCTION BOX COVERPLATES IN AREAS OF MODERNIZATION.
2. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE–WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
3. PROVIDE 3/4"C TO ACCESSIBLE CEILING FOR EACH EXTERIOR DOOR.

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JINGPEI ZHANG
E 16243
EXP. 12–31–18

1ST FLOOR POWER PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E3.01A

DSA SUBMITTAL II

KEY NOTES

1. UNDER BASE BID SCOPE. FOR WORK IN THIS AREA SEE SHEET E3.01A.
2. FURNITURE FEED. EACH OPEN OFFICE CUBICLE/PRIVATE OFFICE SHALL HAVE CONTROLLED AND NON-CONTROLLED RECEPTACLES PER TITLE 24. CONTROLLED RECEPTACLES SHALL BE CONTROLLED VIA NEAREST CEILING MOUNTED OCCUPANCY SENSOR AND ROOM CONTROLLER. SEE LIGHTING CONTROL DIAGRAMS.

BID ALTERNATE #1 - 1ST FLOOR EXISTING COLLEGE CENTER POWER PLAN | 1

GENERAL NOTES

1. PROVIDE NEW SWITCHPLATES, RECEPTACLE COVERPLATES, AND JUNCTION BOX COVERPLATES IN AREAS OF MODERNIZATION.
2. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE-WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.

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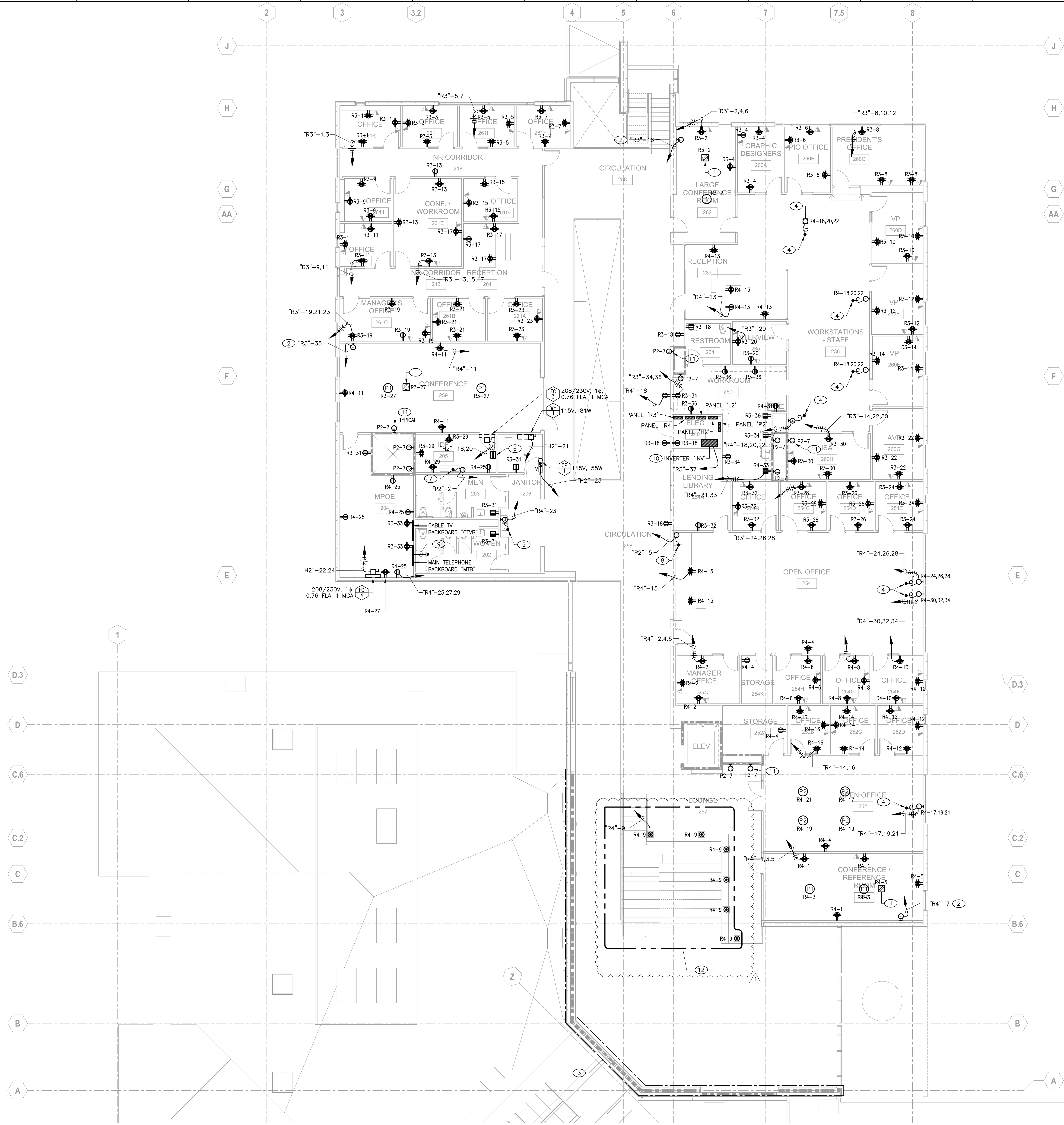

2ND FLOOR POWER PLAN 1
1/8" = 1'-0"

KEY NOTES

1. CEILING RECEPTACLE TO POWER PROJECTOR. PRIOR TO INSTALLATION VERIFY LOCATION WITH OWNER.
2. DEDICATED CIRCUIT FOR WALL JUNCTION BOX WITH A/V CONTROLLER.
3. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9 ON SHEET E8.02.
4. FURNITURE FEED. EACH OPEN OFFICE CUBICLE/PRIVATE OFFICE SHALL HAVE CONTROLLED AND NON-CONTROLLED RECEPTACLES PER TITLE 24. CONTROLLED RECEPTACLES SHALL BE CONTROLLED VIA NEAREST CEILING MOUNTED OCCUPANCY SENSOR AND ROOM CONTROLLER. SEE LIGHTING CONTROL DIAGRAMS ON SHEET E2.05.
5. PROVIDE 120VAC POWER CONNECTION TO ELECTRIC DRINKING FOUNTAIN.
6. PROVIDE DEDICATED 120VAC POWER CONNECTION TO FIRE ALARM POWER SUPPLY 'FAPS2' FROM CIRCUIT "P2"-1. PROVIDE DEDICATED 120VAC POWER CONNECTION TO EMERG. COMMUNICATION SYSTEM POWER SUPPLY 'ECPS2' FROM CIRCUIT "P2"-3.
7. PROVIDE 120VAC POWER CONNECTION TO SECURITY PANEL POWER SUPPLY.
8. PROVIDE 120VAC POWER CONNECTION TO OVERHEAD DOOR. COORDINATE ELECTRICAL REQUIREMENTS WITH DOOR VENDOR.
9. 3/4"C WITH 1#6 CU GROUND TO ELECTRICAL POWER SERVICE GROUNDING ELECTRODE.
10. INVERTER 'INV' (CRUCIAL POWER PRODUCTS: WR3.0A0100N1-VA); 120V/1ϕ, 2.1 KW EMERGENCY LIGHTING INVERTER SYSTEM.
11. PROVIDE 120VAC POWER CONNECTION TO FIRE SMOKE DAMPERS. COORDINATE ELECTRICAL REQUIREMENTS WITH MECHANICAL.
12. SEE ARCHITECTURAL DETAIL D6/A7.11 FOR LOCATION OF RECEPTACLES (1)

GENERAL NOTES

1. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE-WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
2. PROVIDE 3/4"C TO ACCESSIBLE CEILING FOR EACH EXTERIOR DOOR.

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FILE NO.43-C1

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER JINGPEI ZHANG E 16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

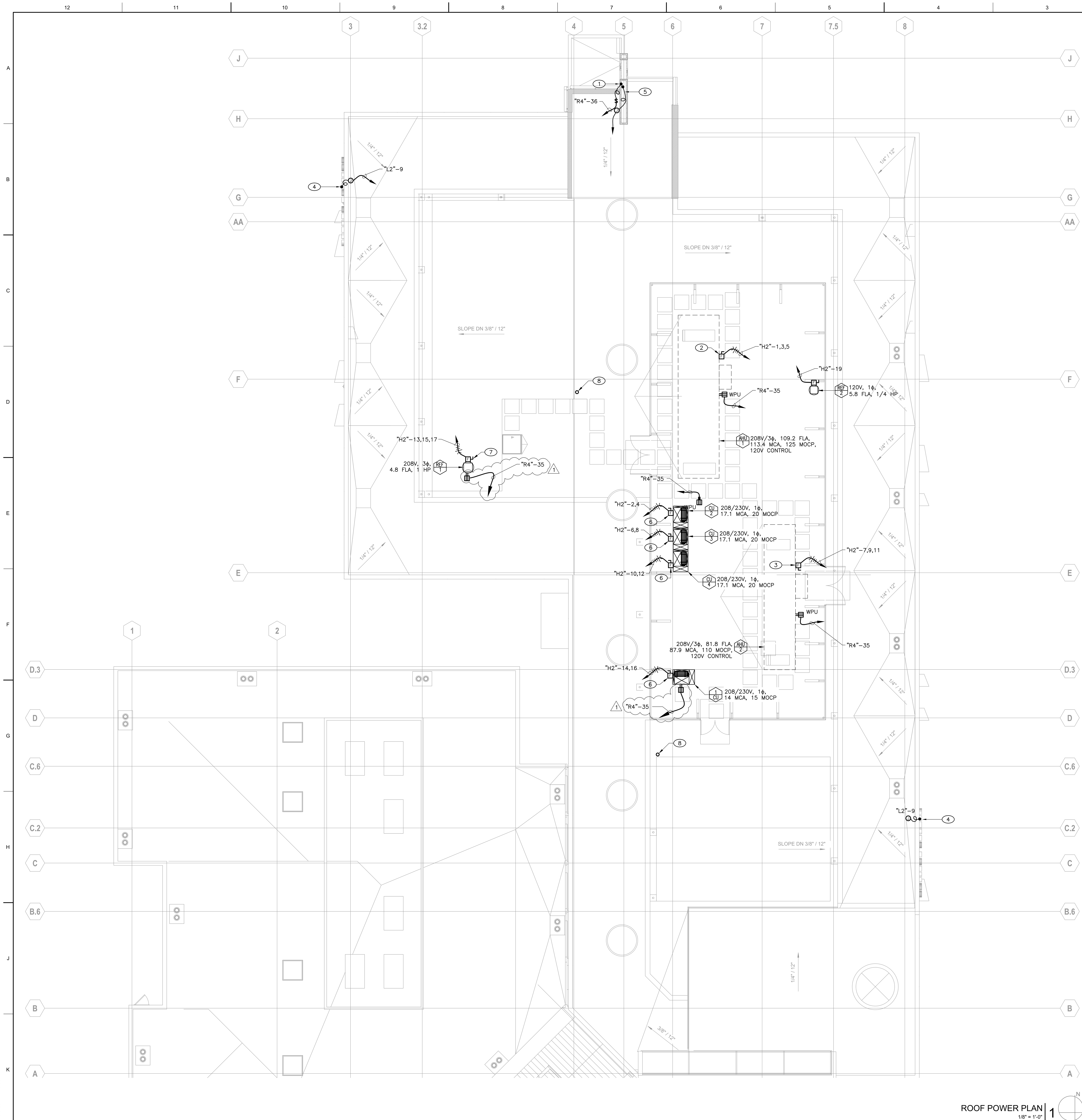
2ND FLOOR POWER PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E3.02

DSA SUBMITTAL II

6/8/2017 7:46:09 AM



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

KEY NOTES

1. PROVIDE 120VAC POWER CONNECTION TO 99B–MI CLOCK CONTROLLER, (ADDITIVE ALTERNATE 4)
2. FUSED DISCONNECT SWITCH PROVIDED BY OTHERS PER MECHANICAL EQUIPMENT SCHEDULE
3. FUSED DISCONNECT SWITCH PROVIDED BY OTHERS PER MECHANICAL EQUIPMENT SCHEDULE
4. PROVIDE 120VAC POWER CONNECTION TO SIGN. J–BOX TO BE UNDER ROOF. COORDINATE AND VERIFY ALL ELECTRIC REQUIREMENTS WITH SIGN PROVIDER. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
5. PROVIDE DATA CONNECTION TO 99B–MI CLOCK ~~CONTROLLER. VERIFY~~ DATA REQUIREMENTS WITH OWNER. (ADDITIVE ALTERNATE 4)
6. PROVIDE AND INSTALL ONE (1) 250V, 2–POLE, 30A FUSED DISCONNECT FOR PROTECTION OF MECH. UNIT.
7. PROVIDE AND INSTALL ONE (1) 250V, 3–POLE, 30A FUSED DISCONNECT FOR PROTECTION OF MECH. UNIT.
8. SPARE 4" CONDUIT STUBBED INTO ACCESSIBLE CEILING SPACE OF FIRST FLOOR ELECTRICAL ROOM AND CAPPED JUST BELOW ROOF HERE FOR FUTURE SOLAR READY AREA.

GENERAL NOTES

1. ALL WORK ON ROOF SHALL BE NEMA 3R OR WEATHERPROOF.
2. REFER TO ARCHITECTURAL ROOF PLAN FOR LOCATION OF SOLAR READY AREA.

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REGISTERED PROFESSIONAL ENGINEER E16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

ROOF POWER PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E3.03

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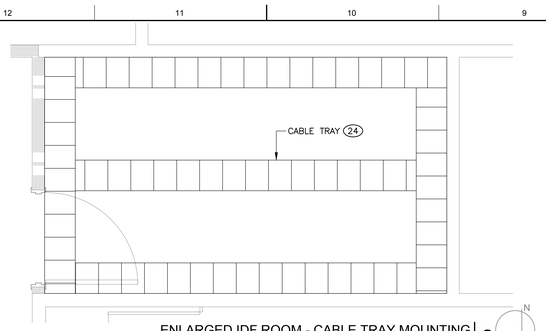
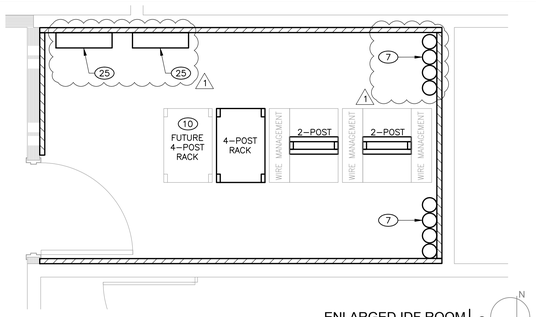


ENLARGED IDF ROOM - CABLE TRAY MOUNTING
1/2" = 1'-0" | 2



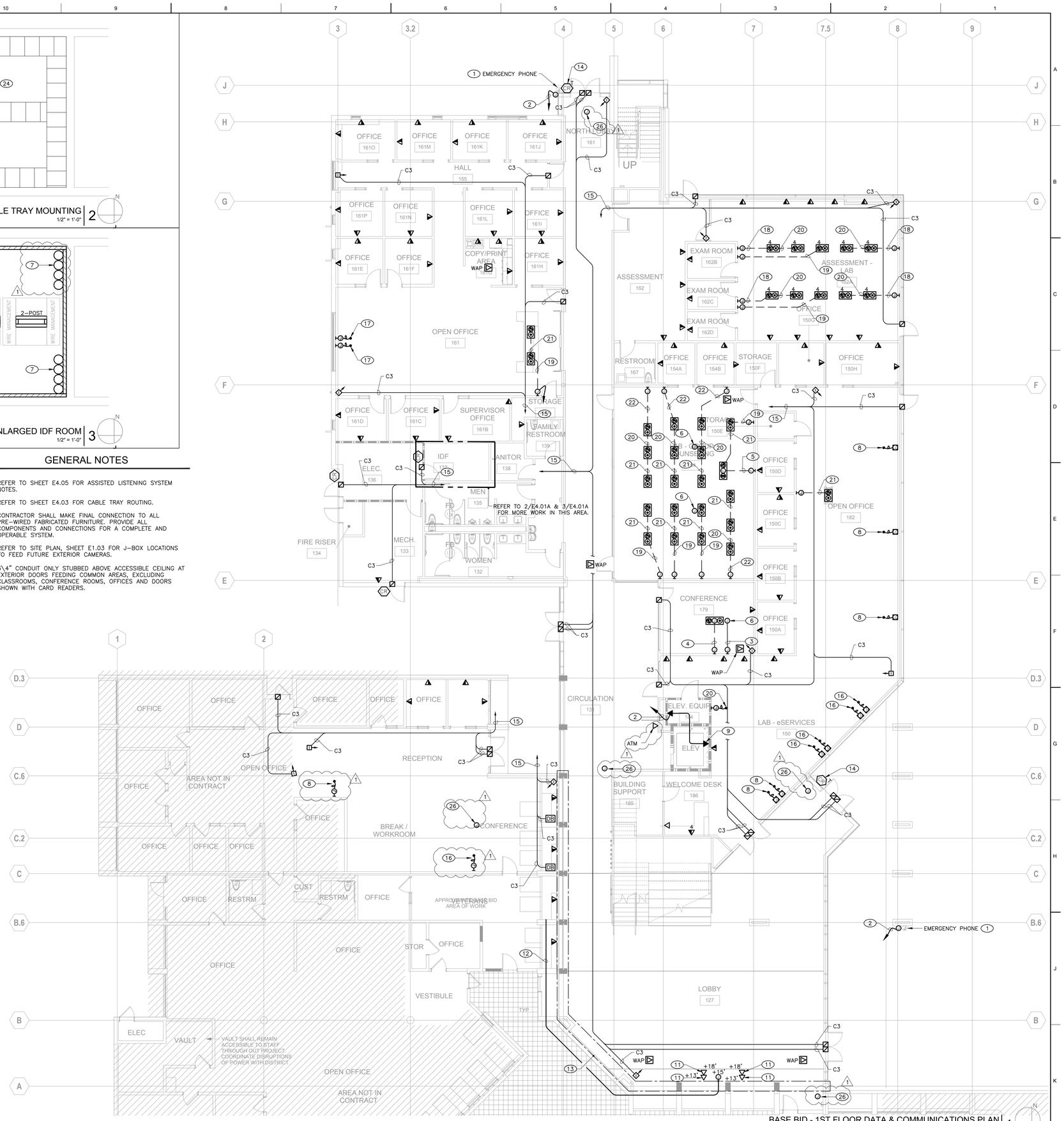
ENLARGED IDF ROOM
1/2" = 1'-0" | 3

KEY NOTES

1. BLUE EMERGENCY PHONE. PROVIDE NECESSARY COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
2. ONE 1"C WITH CAT6 CABLE TO (E) INTERMEDIATE CROSS-CONNECT (IC) "1.1" IN (E) COLLEGE CENTER BUILDING.
3. ONE 1"EC FROM WALL BOX TO CEILING MOUNTED PROJECTOR TO FACILITATE A/V CONTROLLER. PROVIDE VGA/HDMI CABLES TO PROJECTOR WITH ALL NECESSARY COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
4. ONE 1"EC FOR VGA/HDMI FROM FLOOR BOX TO PROJECTOR. FLOOR BOX TO BE IN CENTER OF TABLE. REFER TO FURNITURE PLANS FOR EXACT LOCATION.
5. TWO (2) 1"EC FROM SMART PODIUM (UNDER FLOOR) TO JUNCTION BOX IN WALL TO FACILITATE FUTURE TV OPTION. EXTEND ONE 1"EC FROM JUNCTION BOX IN WALL TO EACH CEILING PROJECTOR (TWO TOTAL).
6. JUNCTION BOX LOCATED IN CEILING ABOVE CEILING MOUNTED PROJECTOR. VERIFY FINAL LOCATION WITH ARCHITECT.
7. FOUR (4) 4" SLEEVES BETWEEN 1ST AND 2ND FLOOR IDF ROOMS.
8. PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1 1/2"C UNDER FLOOR TO WALL AND UP TO ACCESSIBLE CEILING WITH EIGHT (8) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
9. COORDINATE LOCATION WITH ELEVATOR INSTALLER FOR ELEVATOR CAB TELEPHONE.
10. RESERVE SPACE FOR POTENTIAL FUTURE 4-POST RACK.
11. ADD ALT. #6. LED DISPLAY (TYP. OF 4). COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
12. PROVIDE ONE (1) 2"EC FROM BEHIND MONITORS ROUTED TO UNDER THE COUNTER IN ROOM 149 (IN "THE HUB").
13. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9/E8.02.
14. CARD READER WITH TOGGLE. SEE SECURITY (INTRUSION, ACCESS, CCTV) SYMBOL LEGEND ON E0.01 FOR MORE INFORMATION.
15. ALL SECURITY CONDUCTORS AND CABLES TERMINATE AT SECURITY TERMINAL CABINET IN SECOND FLOOR IDF ROOM.
16. PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1 1/2"C UNDER FLOOR TO WALL AND UP TO ACCESSIBLE CEILING WITH TWELVE (12) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
17. PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1" CONDUIT UP TO ACCESSIBLE CEILING WITH SIX (6) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
18. PROVIDE 1 1/4"C WITH EIGHT (8) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
19. PROVIDE 1"C WITH FOUR (4) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
20. PROVIDE 1"C WITH FOUR (4) CAT 6 CABLES.
21. PROVIDE 3/4"C WITH TWO (2) CAT 6 CABLES.
22. PROVIDE 1"C WITH SIX (6) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137.
23. CARD READER SHALL BE PROGRAMMED FOR AUTO OPEN WHEN REACHING SECOND FLOOR.
24. REFER TO SHEET E8.07 FOR CABLE TRAY DETAILS.
25. RELOCATED SECURITY HEAD PANELS/CABINETS (ACCESS AND INTRUSION, AND CCTV) PER KEY NOTE 1, SHEET ED3.00.
26. BOX TO PROVIDE FUTURE CAMERA COORDINATE EXACT LOCATION WITH LOS RIOS DISTRICT IT DEPARTMENT. (1)

GENERAL NOTES

1. REFER TO SHEET E4.05 FOR ASSISTED LISTENING SYSTEM NOTES.
2. REFER TO SHEET E4.03 FOR CABLE TRAY ROUTING.
3. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE-WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
4. REFER TO SITE PLAN, SHEET E1.03 FOR J-BOX LOCATIONS TO FEED FUTURE EXTERIOR CAMERAS.
5. 3\4" CONDUIT ONLY STUBBED ABOVE ACCESSIBLE CEILING AT EXTERIOR DOORS FEEDING COMMON AREAS, EXCLUDING CLASSROOMS, CONFERENCE ROOMS, OFFICES AND DOORS SHOWN WITH CARD READERS.



BASE BID - 1ST FLOOR DATA & COMMUNICATIONS PLAN
1/8" = 1'-0" | 1

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COSUMNES RIVER COLLEGE

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TROY PENNINGTON
C-31285
5-31-19
RENEWAL DATE
STATE OF CALIFORNIA

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REGISTERED PROFESSIONAL ENGINEER
E 16243
EXP. 12-31-18
ELECTRICAL
STATE OF CALIFORNIA

1ST FLOOR DATA & COMMUNICATIONS PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E4.01A

DSA SUBMITTAL II

KEY NOTES

(1) UNDER BASE BID SCOPE. FOR WORK IN THIS AREA SEE SHEET E4.01A.

(2) PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1 1/2" CONDUIT UP TO ACCESSIBLE CEILING WITH TWO (2) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM 137. 1

GENERAL NOTES

1. ALL INTERIOR AND EXTERIOR DOORS SHALL HAVE 3\4" CONDUIT ONLY STUBBED ABOVE ACCESSIBLE CEILING AT EACH DOOR REGARDLESS OF WHETHER THE DOOR IS EQUIPPED WITH SECURITY OR ELECTRONIC HARDWARE.
2. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE-WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.

BID ALTERNATE #1 - 1ST FLOOR DATA & COMMUNICATIONS PLAN
1/8" = 1'-0" 1

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1ST FLOOR ALT DATA & COMMUNICATIONS PLAN

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E4.01B

DSA SUBMITTAL II

KEY NOTES

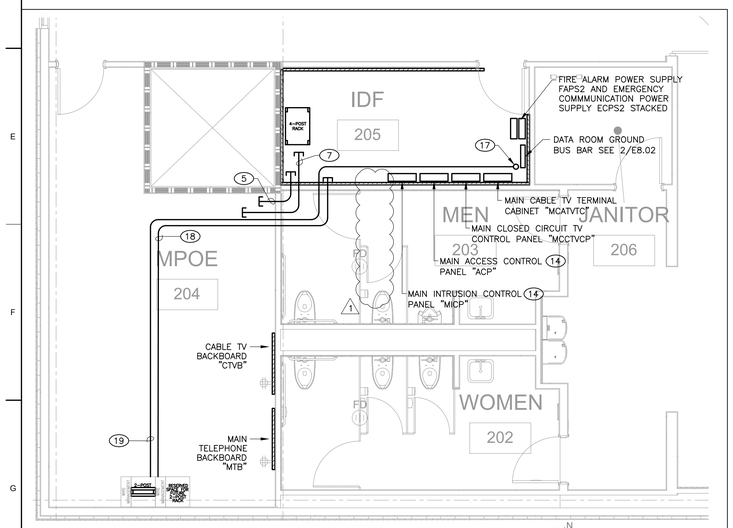
1. ONE 1"EC FROM FLOOR BOX TO CEILING MOUNTED PROJECTOR. PROVIDE VGA/HDMI CABLES TO PROJECTOR WITH ALL NECESSARY COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
2. ONE 1"EC FROM WALL BOX TO CEILING MOUNTED PROJECTOR TO FACILITATE A/V CONTROLLER.PROVIDE VGA/HDMI CABLES TO PROJECTOR WITH ALL NECESSARY COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
3. JUNCTION BOX LOCATED IN CEILING, ABOVE CEILING MOUNTED PROJECTOR. VERIFY FINAL LOCATION WITH COLLEGE.
4. 3/4"C WITH FOUR (4) CAT 6 CABLES.
5. PROVIDE FOUR (4) 4"EC FROM MPOE TO IDF ROOM ABOVE CEILING.
6. PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1 1/2" CONDUIT UP TO ACCESSIBLE CEILING WITH EIGHT (8) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM AT SECOND FLOOR..
7. PROVIDE ONE (1) 2"C WITH TWO (2) 25 PAIR CATSE TIE CABLES FROM MPOE TO IDF ROOM 205 ABOVE CEILING.
8. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9/E8.02.
9. CARD READER WITH TOGGLE. SEE SECURITY (INTRUSION, ACCESS, CCTV) SYMBOL LEGEND ON E0.01 FOR MORE INFORMATION.
10. PRE-WIRED FURNITURE FEED (DATA). PROVIDE 1 1/2" CONDUIT UP TO ACCESSIBLE CEILING WITH FOUR (4) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM AT SECOND FLOOR.
11. LADDER TRAY. SEE LADDER TRAY DETAILS, SHEET E8.07.
12. PROVIDE ONE (1) 1 1/4" CONDUIT TO SECOND FLOOR ACCESSIBLE CEILING WITH EIGHT (8) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM AT SECOND FLOOR.
13. ALL SECURITY CONDUCTORS AND CABLES TERMINATE AT INTRUSION TERMINAL CABINET IN SECOND FLOOR IDF ROOM.
14. CANS 1 THROUGH 5, INTRUSION & ACCESS CONTROL PANELS. SEE SHEET E8.04 DETAIL 4 FOR EXACT MOUNTING LOCATIONS.
15. 3/4"C UP TO ACCESSIBLE CEILING WITH EIGHT (8) CAT 6 CABLES TO DATA PATCH PANEL IN IDF ROOM AT SECOND FLOOR.
16. FOUR (4) 4" SLEEVES BETWEEN 1ST AND 2ND FLOOR IDF ROOMS.
17. 2"C TO RUN FROM SECOND FLOOR IDF ROOM TO FIRST FLOOR IDF ROOM ROUTED ADJACENT TO CONDUIT SLEEVES PER KEYNOTE 16.

KEY NOTES (CONTINUED)

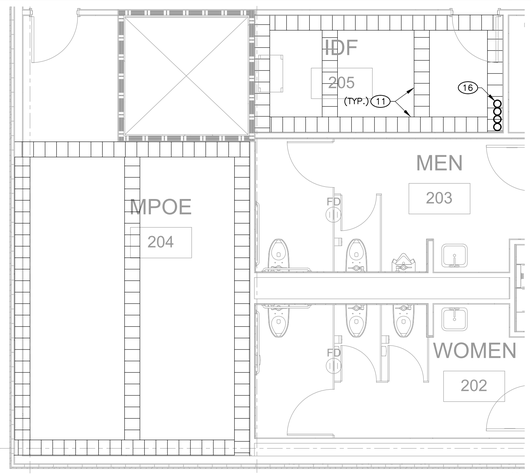
18. PROVIDE ONE (1) 1"C WITH ONE (1) 24 STRAND SINGLE-MODE FIBER LC/LC FROM MPOE TO IDF ROOM 205.
19. PROVIDE ONE (1) 1"C WITH ONE (1) 24 STRAND SINGLE-MODE FIBER LC/LC FROM MPOE DOWN TO FIRST FLOOR IDF ROOM 137. WHERE APPLICABLE, ROUTE FIBER OPTIC CABLE ALONG LADDER RACK.
20. 3/4"C WITH TWO (2) CAT 6 CABLES.
21. AT ROOF HATCH.
22. BOX TO PROVIDE FUTURE CAMERA COORDINATE EXACT LOCATION WITH LOS RIOS DISTRICT IT DEPARTMENT.

GENERAL NOTES

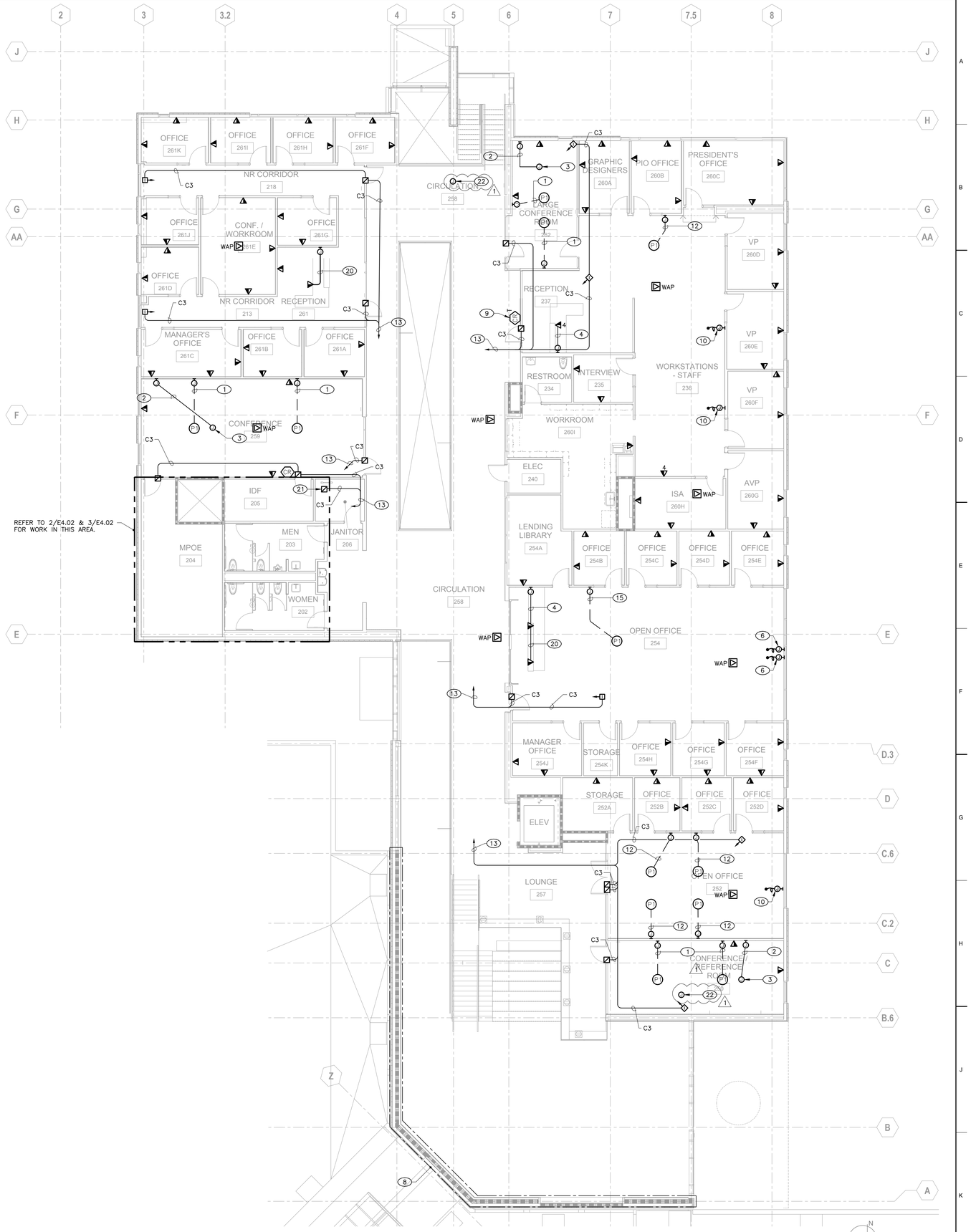
1. ALL INTERIOR AND EXTERIOR DOORS SHALL HAVE 3\4" CONDUIT ONLY STUBBED ABOVE ACCESSIBLE CEILING AT EACH DOOR REGARDLESS OF WHETHER THE DOOR IS EQUIPPED WITH SECURITY OR ELECTRONIC HARDWARE.
2. REFER TO SHEET E4.05 FOR ASSISTED LISTENING SYSTEM NOTES.
3. REFER TO SHEET E4.04 FOR CABLE TRAY ROUTING.
4. CONTRACTOR SHALL MAKE FINAL CONNECTION TO ALL PRE-WIRED FABRICATED FURNITURE. PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.



ENLARGED IDF & MPOE ROOMS 2
1/4" = 1'-0"



ENLARGED IDF & MPOE ROOMS - CABLE TRAY MOUNTING 3
1/4" = 1'-0"



2ND FLOOR DATA & COMMUNICATIONS PLAN 1
1/8" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER ROBERT J. WEST E 16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

2ND FLOOR DATA & COMMUNICATIONS PLAN

PROJECT NO: 201-0065

DATE: 01.19.2018

SHEET NO:

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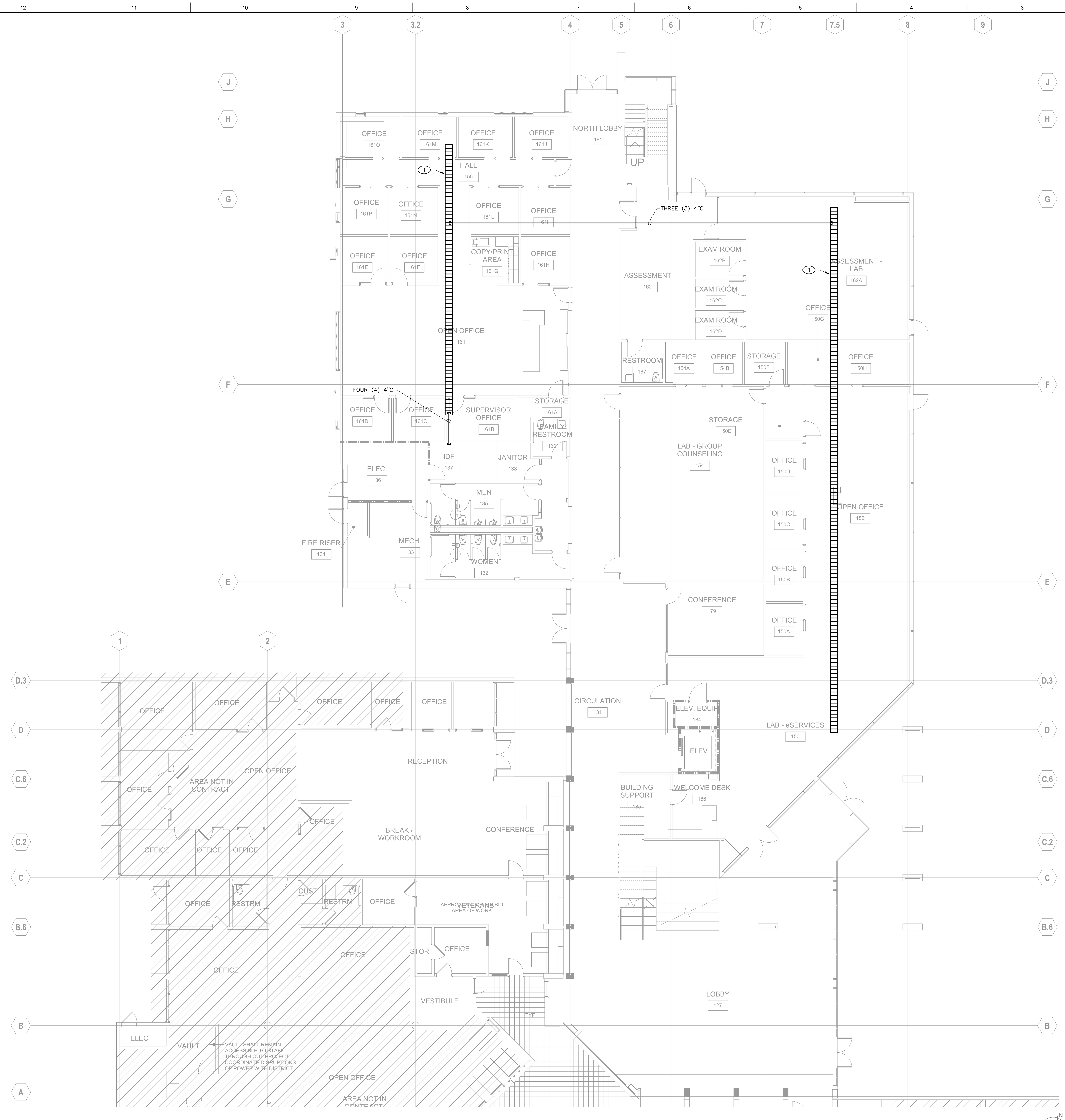

1ST FLOOR CABLE TRAY PLAN 1
1/8" = 1'-0"

KEY NOTES

1. PROVIDE CABLE TRAY ABOVE CEILING. COORDINATE BEST LOCATION AND ROUTING IN FIELD WITH OTHER DISCIPLINES. SEE COMMUNICATIONS CABLE TRAY SPECIFICATION SECTION 27 05 36 FOR MORE INFORMATION.

GENERAL NOTES

1. REFER TO CABLE TRAY DETAIL SHEET E8.07 FOR MORE INFORMATION.

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REGISTERED PROFESSIONAL ENGINEER E 16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

1ST FLOOR CABLE TRAY PLAN

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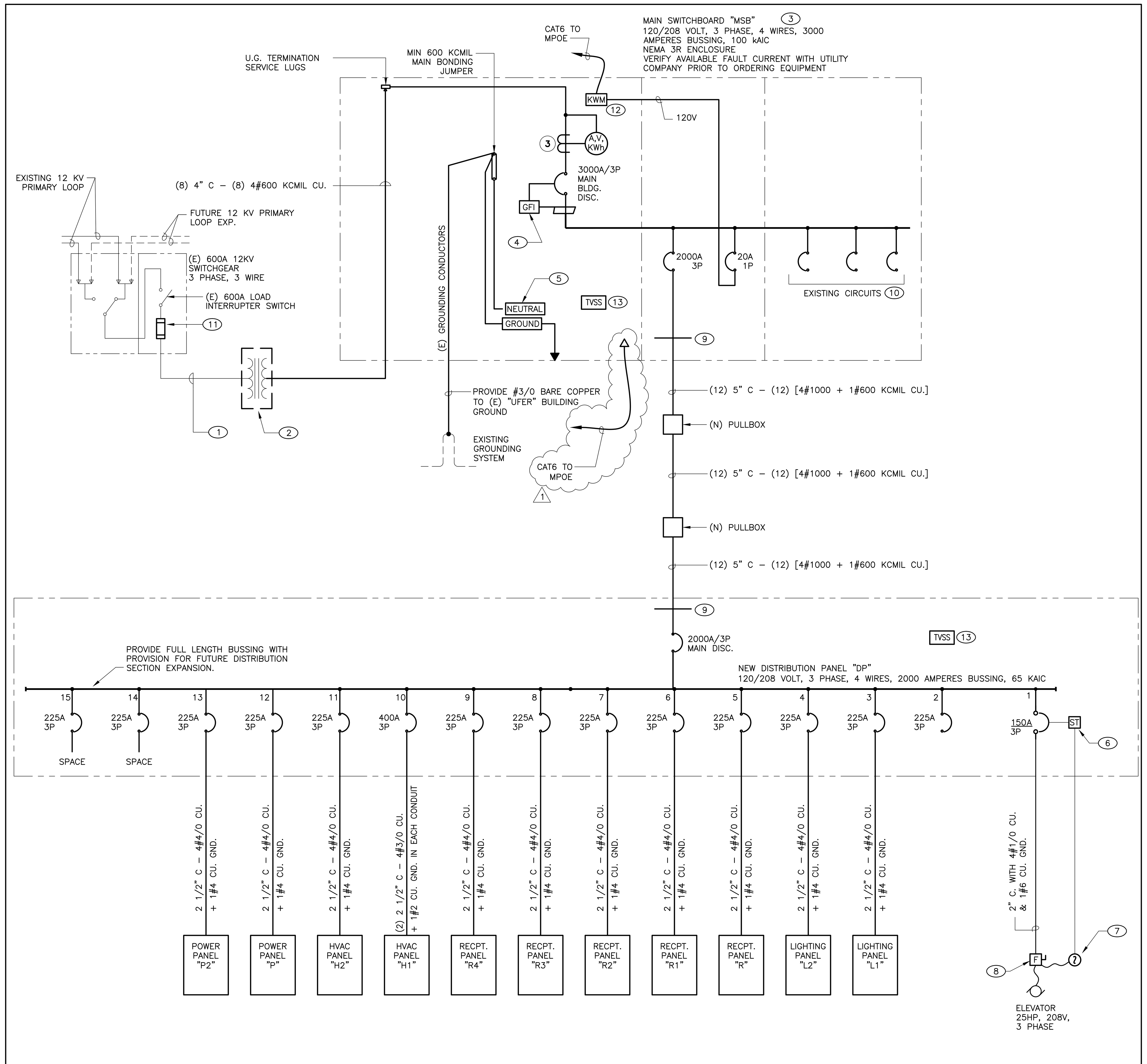


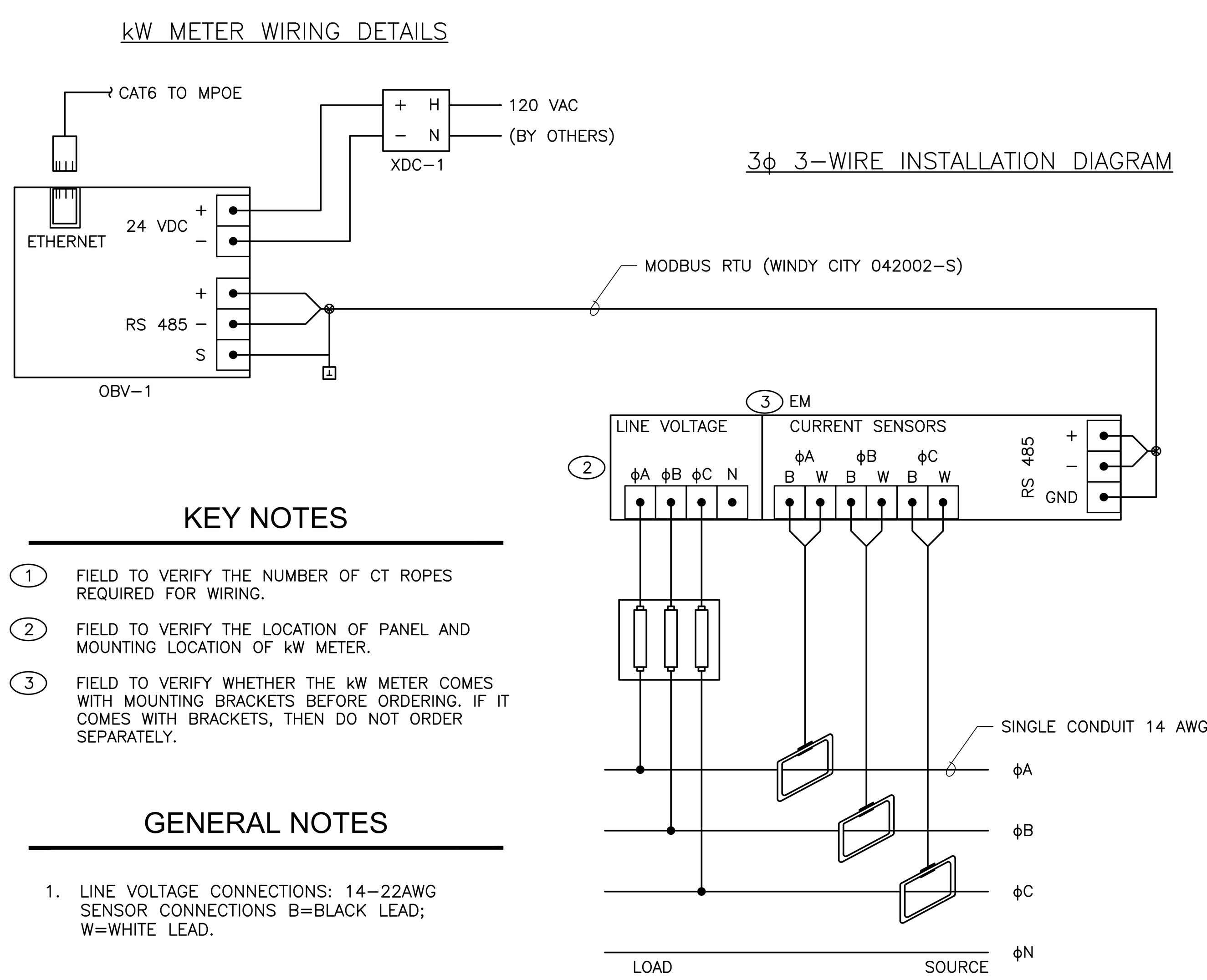
ONE LINE RISER DIAGRAM | NTS | 1

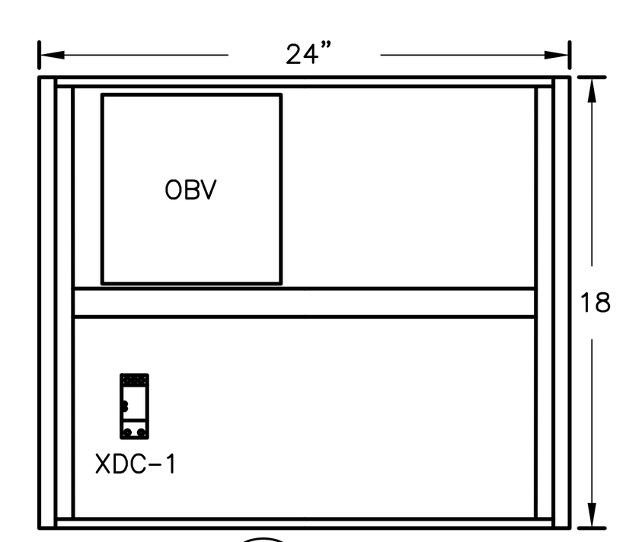
KEY NOTES

1. EXISTING PRIMARY FEEDER; 5"C.– 3#1/0 15KV CABLE.
2. REPLACE THE EXISTING 500KVA TRANSFORMER WITH A NEW 1000KVA, 12kV TO 120/208 VOLT, 3 PHASE, 4 WIRE PAD MOUNTED TRANSFORMER.
3. REPLACE THE EXISTING 2000A SWITCHBOARD WITH A NEW SWITCHBOARD AS SPECIFIED. DISCONNECT AND REMOVE EXISTING 2000A, 120/208V, MAIN SWITCHBOARD TO BE REPLACED WITH NEW 3000A, 120/208V, MAIN SWITCHBOARD. CAMPUS IS REPLACING SOME PRIMARY ELECTRICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE COLLEGE CENTER SHUTDOWN WITH CAMPUS WIDE SHUTDOWN TO MINIMIZE CAMPUS OUTAGE
4. PROVIDE ZERO SEQUENCE GROUND FAULT.
5. PROVIDE FULL LENGTH 100% RATED NEUTRAL AND GROUND BUS.
6. PROVIDE SHUNT TRIP FOR INTERFACE WITH THE ELEVATOR MACHINE ROOM FIRE ALARM SYSTEM DETECTOR, AS PER ELEVATOR CODE.
7. FIRE ALARM SYSTEM DETECTOR AND WIRING PER FIRE ALARM PLANS, AS REQUIRED BY ELEVATOR CODE.
8. 200 AMP DISCONNECT WITH 150 AMP FUSES. COORDINATE WITH ELEVATOR SUPPLIER AND NAMEPLATE DATA.
9. PROVIDE MIN. 36" DEEP PANEL/SWITCBOARD ACCEPTING REQUIRED NUMBER OF THE SPECIFIED CONDUCTORS. COORDINATE WITH THE MANUFACTURER FOR PROVISION REQUIRED TO TERMINATE REQUIRED NUMBER OF THE SPECIFIED CONDUCTORS.
10. VERIFY THE EXISTING CIRCUIT BREAKERS SIZE AND NUMBER; PROVIDE NEW BREAKERS OF THE SAME SIZE. DISCONNECT THE EXISTING OUTGOING FEEDER FROM EXISTING SWITCHBOARD; REMOVE THE EXISTING SWITCHBOARD AND RECONNECT THE CIRCUITS TO NEW SWITCHBOARD AT THE SAME LOCATION. USE COMPRESSION TYPE TERMINATION LUGS.
11. REPLACE EXISTING 50E CURRENT LIMITING FUSES WITH NEW 100 AMP FUSES OF THE SAME TYPE AND RATINGS.
12. REFER TO 2/E7.01 FOR KW METER WIRING DIAGRAM.
13. PROVIDE TRANSIENT VOLTAGE SURGE SUPPRESSION.
14. PROVIDE FACTORY POWER MONITORING BACNET OVER IP. (1)

GENERAL NOTES

1. REFER TO SHEET E7.02 FOR PANEL SCHEDULES.





2 EC1B

KEY NOTES

1. FIELD TO VERIFY THE NUMBER OF CT ROPES REQUIRED FOR WIRING.
2. FIELD TO VERIFY THE LOCATION OF PANEL AND MOUNTING LOCATION OF kW METER.
3. FIELD TO VERIFY WHETHER THE kW METER COMES WITH MOUNTING BRACKETS BEFORE ORDERING. IF IT COMES WITH BRACKETS, THEN DO NOT ORDER SEPARATELY.

GENERAL NOTES

1. LINE VOLTAGE CONNECTIONS: 14–22AWG SENSOR CONNECTIONS B=BLACK LEAD; W=WHITE LEAD.

SEQUENCE OF OPERATION

EBI WILL MONITOR CAMPUS kW AND CAMPUS KWh VALUES OVER THE NETWORK. PROGRAMMING OF A8810–0 AQUISUITE GATEWAY TO BE DONE ON SITE.

BILL OF MATERIAL

FIELD DEVICES

TAG NAME	TOT QTY	PART #	DESCRIPTION
EM	1	E50C3A	VERIS: ENERGY METER, MODBUS OUTPUT, DATA LOGGING
	1	U018–0001	VERIS: CT ROPE, 12"
	1	AH04	VERIS: FUSE PACK, 1/2 AMP 600VAC SLOW BLOW, 14AWG, 18", 600VAC

PANEL DEVICES

TAG NAME	TOT QTY	PART #	DESCRIPTION
OBV	1	A8810–0	OBVIUS: DATA ACUISITION SERVER.
XDC	1	PS5R–SC24	KELE: DC POWER SUPPLY, 120VAC TO 24VAC, 1.3A

KW METER WIRING DIAGRAM | NTS | 2

EXISTING ELECTRICAL SERVICE LOAD CALCULATION

EXISTING MAXIMUM PEAK DEMAND LOAD (LOAD ON EXISTING SWITCHBOARD BEING REPLACED WITH NEW)					
READING				149.7	KVA
PLUS 25% OF EXISTING CONNECTED LOAD				37.4	KVA
TOTAL EXISTING CONNECTED LOAD			=	187.1	KVA
ADD NEW LOAD (CEC 220)					
INTERIOR LIGHTING	30000 SQ. FT. @	3.00 WATTS PER SQ. FT.		90.00	KVA
25% CONTINUOS LOAD FACTOR				22.50	KVA
EXTERIOR LIGHTING				1.00	KVA
SHOW WINDOW (NEC 220-12)	0.20	KVA/L.F.	0.00	0.00	KVA
GENERAL PURPOSE RECEPTACLE OUTLETS	30.00	KVA			
FIRST 10 KW OR LESS		@ 100% =		10.00	KVA
REMAINDER OVER 10 KW =	20.00	@ 50% =		10.00	KVA
HEATING, VENTILATING AND AIR CONDITIOINING EQUIPMENT					
AIR CONDITIONING				450.00	KVA
WATER HEATING				0.08	KVA
EQUIPMENT AND APPLIANCES					
IT SMART ROW				36.00	KVA
ELEVATOR	26.90	KVA EA.	1	26.90	KVA
KITCHEN EQUIPMENT				5.00	KVA
IDF ROOM EQUIPMENT				1.00	KVA
FLAT SCREEN DISPLAYS				1.60	KVA
LARGEST MOTOR =	26.90	KVA @ 25% =		6.73	KVA
TOTAL ADDED LOAD			=	660.8	KVA
EXISTING AND ADDED TOTAL SERVICE LOAD			=	847.9	kVA
847.9 KVA @ 120/208 VOLT , 3 PHASE			=	2355	AMPERES
PROVIDE 3000 AMP, 120/208 VOLT, 3 PHASE, 4 WIRE SERVICE.					

LPAS

2484 Natomas Park Drive Suite 100 Sacramento CA 95833
916 443 0335 lpasdesign.com Architecture + Design

COSUMNES RIVER COLLEGE

COLLEGE CENTER EXPANSION

8401 CENTER PARKWAY, SACRAMENTO, CA 95823

NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02-115990
AC____ FLS ____ SS____
DATE ________

ARCHITECT'S STAMP | APPROVAL

CONSULTANT

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER JINGPEI ZHANG E 16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

ONE LINE DIAGRAM

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

E7.01

PANEL "R"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECEPT - ELEVATOR	180			100			FIRE ALARM CONTROL PANEL	20/1	2
3	20/1	RECEPT - STAIRS		1,080			1,080		RECEPT - STAIRS	20/1	4
5	20/1	RECEPT - STAIRS			1,080			1,080	RECEPT - STAIRS	20/1	6
7	20/1	RECEPT - STAIRS	720			180			RECEPT - BUILDING SUPPORT	20/1	8
9	20/1	RECEPT - IDF		360			50		EMERGENCY PHONE	20/1	10
11	20/1	RECEPT - IDF			180			540	FURNITURE - ASSESS. RM	20/1	12
13	20/1	RECEPT - OFFICE	1,080			540			FURNITURE - ASSESS. RM	20/1	14
15	20/1	RECEPT - OFFICE		1,080			540		FURNITURE - ASSESS. RM	20/1	16
17	20/1	FURNITURE - OPEN OFFICE			540			720	FURNITURE - LOBBY	20/1	18
19	20/1	FURNITURE - OPEN OFFICE	540			720			FURNITURE - LOBBY	20/1	20
21	20/1	FURNITURE - OPEN OFFICE		540			720		FURNITURE - LOBBY	20/1	22
23	20/1	RECEPT - FINANCIAL AID			1,440			200	IRRIGATION CONTROLLER	20/1	24
25	20/1	RECEPT - FINANCIAL AID	1,440			500			FIRE ALARM POWER SUPPLY	20/1	26
27	20/1	RECEPT - SCAN RM [2]		500			200		FIRE ALARM EVAC1 AMP	20/1	28
29	20/1	RECEPT - BREAK RM [2]			720			540	FURNITURE - OFFICE [2]	20/1	30
31	20/1	RECEPT - ELEVATOR EQP RM	180			370			DRINKING FOUNTAIN	20/1	32
33	20/1	ELEVATOR CAB DISCONNECT		180			200		EMERG. COMM. POWER SUPP	20/1	34
35	20/1	RECEPT - HALL & LOBBY			720			50	EMERGENCY PHONE	20/1	36
37	20/1	SPARE							SPARE	20/1	38
39	20/1	SPARE							SPARE	20/1	40
41	20/1	SPARE							SPARE	20/1	42

PHASE TOTALS

A	B	C
6,550	6,530	7,810

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2] CIRCUIT APPLICABLE TO ALTERNATE BID.

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	20,890 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	20,890 Watts
TOTAL DEMAND AMPS	58 AMPS

PANEL "R3"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

14 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECEPT - OFFICE	1,080			900			RECEPT - LRG CONF RM	20/1	2
3	20/1	RECEPT - OFFICE		1,080			1,080		RECEPT - GRAPHIC DESGN. RM	20/1	4
5	20/1	RECEPT - OFFICE			1,080			1,080	RECEPT - OFFICE	20/1	6
7	20/1	RECEPT - OFFICE	1,080			1,080			RECEPT - OFFICE	20/1	8
9	20/1	RECEPT - OFFICE		1,080			1,080		RECEPT - OFFICE	20/1	10
11	20/1	RECEPT - OFFICE			1,080			1,080	RECEPT - OFFICE	20/1	12
13	20/1	RECEPT - CONF. RM	1,260			1,080			RECEPT - OFFICE	20/1	14
15	20/1	RECEPT - OFFICE		1,080			100		RECEPT - AV CONTRL CONF	20/1	16
17	20/1	RECEPT - RECECPTION			1,260			900	RECEPT - HALL, RR	20/1	18
19	20/1	RECEPT - OFFICE	1,260			720			RECEPT - INTERVIEW	20/1	20
21	20/1	RECEPT - OFFICE		1,080			1,080		RECEPT - OFFICE	20/1	22
23	20/1	RECEPT - OFFICE			1,080			1,080	RECEPT - OFFICE	20/1	24
25	20/1	RECEPT - CONFERENCE RM	1,080			1,080			RECEPT - OFFICE	20/1	26
27	20/1	RECEPT - CONFERENCE RM		900			1,080		RECEPT - OFFICE	20/1	28
29	20/1	RECEPT - IDF RM			720			1,080	RECEPT - ISA RM	20/1	30
31	20/1	RECEPT - MPOE, JANITOR, RR	720			1,260			RECEPT - OFFICE	20/1	32
33	20/1	RECEPT - MPOE		360			720		RECEPT - WORK RM	20/1	34
35	20/1	RECEPT - AV CONTRL CONF RM			100			720	RECEPT - WORK RM	20/1	36
37	20/1	INVERTER 'INV'	1,095						SPARE	20/1	38
39	20/1	SPARE							SPARE	20/1	40
41	20/1	SPARE							SPARE	20/1	42

PHASE TOTALS

A	B	C
13,695	10,720	11,260

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	1,369 Watts
RECEPTACLES / OTHER x 100%	34,580 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	35,949 Watts
TOTAL DEMAND AMPS	100 AMPS

PANEL "P"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	OVER HEAD DOOR	300			720			EXT USB CHARGING STATION	20/1	2
3	20/1	TV DISPLAYS LOBBY [2]		1,080			1,080		EXT USB CHARGING STATION	20/1	4
5	20/1	FIRE SHUTTER			400			1,080	EXT USB CHARGING STATION	20/1	6
7	20/1	FIRE SMOKE DAMPER	200						SPARE	20/1	8
9	20/1	SPARE							SPARE	20/1	10
11	20/1	SPARE							SPARE	20/1	12
13	20/1	SPARE							SPARE	20/1	14
15	20/1	SPARE							SPARE	20/1	16
17	20/1	SPARE							SPARE	20/1	18
19	20/1	SPARE							SPARE	20/1	20
21	20/1	SPARE							SPARE	20/1	22
23	20/1	SPARE							SPARE	20/1	24
25	20/1	SPARE							SPARE	20/1	26
27	20/1	SPARE							SPARE	20/1	28
29	20/1	SPARE							SPARE	20/1	30
31	20/1	SPARE							SPARE	20/1	32
33	20/1	SPARE							SPARE	20/1	34
35	20/1	SPARE							SPARE	20/1	36
37	20/1	SPARE							SPARE	20/1	38
39	20/1	MOTORIZED DOOR		500			500		MOTORIZED DOOR	20/1	40
41	20/1	MOTORIZED DOOR			500			500	ATM	20/1	42

1

PHASE TOTALS

A	B	C
1,220	3,160	2,480

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2] CIRCUIT APPLICABLE TO ALTERNATE BID.

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	6,860 Watts
LARGEST MOTOR x 25%	125 Watts
TOTAL DEMAND LOADS	6,985 Watts
TOTAL DEMAND AMPS	19 AMPS

PANEL "R1"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECEPT - OFFICE	1,080			1,080			RECEPT - OFFICE	20/1	2
3	20/1	RECEPT - OFFICE		1,080			1,080		RECEPT - OFFICE	20/1	4
5	20/1	RECEPT - OFFICE			1,080			1,080	RECEPT - OFFICE	20/1	6
7	20/1	RECEPT - OFFICE	1,080			1,080			RECEPT - OFFICE	20/1	8
9	20/1	RECEPT - OFFICE		1,080			1,080		RECEPT - OFFICE	20/1	10
11	20/1	RECEPT - OFFICE			1,260			360	RECEPT - PRINT AREA	20/1	12
13	20/1	RECEPT - EXAM ROOM	720			720			RECEPT - PRINT AREA	20/1	14
15	20/1	RECEPT - EXAM ROOM		720			1,080		FURNITURE - OPEN OFFICE	20/1	16
17	20/1	RECEPT - ASSESSMENT LAB			1,080			1,080	FURNITURE - OPEN OFFICE	20/1	18
19	20/1	RECEPT - EXAM ROOM	720			1,080			FURNITURE - OPEN OFFICE	20/1	20
21	20/1	RECEPT - ASSESSMENT LAB		720			720		RECEPT - OPEN OFFICE	20/1	22
23	20/1	RECEPT - ASSESSMENT LAB			1,080			720	RECEPT - OPEN OFFICE	20/1	24
25	20/1	RECEPT - ASSESSMENT LAB	1,080			540			RECEPT - RR	20/1	26
27	20/1	RECEPT - ASSESSMENT LAB		720			1,080		RECEPT - OFFICE	20/1	28
29	20/1	RECEPT - IDF			180			1,080	RECEPT - OFFICE	20/1	30
31	20/1	RECEPT - LAB-GROUP COUNS	1,080			1,080			RECEPT - SUP. OFFICE	20/1	32
33	20/1	RECEPT - LAB-GROUP COUNS		1,080			900		RECEPT - JANITOR & HALL	20/1	34
35	20/1	RECEPT - LAB-GROUP COUNS			1,080			800	RECEPT - ELEC, FIRE RISER	20/1	36
37	20/1	SPARE							SPARE	20/1	38
39	20/1	SPARE							SPARE	20/1	40
41	20/1	SPARE							SPARE	20/1	42

PHASE TOTALS

A	B	C
11,340	11,340	10,880

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	33,560 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	33,560 Watts
TOTAL DEMAND AMPS	93 AMPS

PANEL "R4"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

14 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RECEPT - CONF. RM	1,080			1,080			RECEPT - OFFICE	20/1	2
3	20/1	RECEPT - CONF. RM		720			1,080		RECEPT - STORAGE	20/1	4
5	20/1	RECEPT - CONF. RM			280			1,080	RECEPT - OFFICE	20/1	6
7	20/1	CONF RM - AV CONTROLLER	100			1,080			RECEPT - OFFICE	20/1	8
9	20/1	RECEPT - LOUNGE		1,080			1,080		RECEPT - OFFICE	20/1	10
11	20/1	RECEPT - CONF. RM			1,080			1,080	RECEPT - OFFICE	20/1	12
13	20/1	RECEPT - RECEPTION	1,260			1,080			RECEPT - OFFICE	20/1	14
15	20/1	RECEPT - OFFICE		720			1,080		RECEPT - OFFICE	20/1	16
17	20/1	FURNITURE			1,080			1,080	FURNITURE	20/1	18
19	20/1	FURNITURE	1,260			1,080			FURNITURE	20/1	20
21	20/1	FURNITURE		1,080			1,080		FURNITURE	20/1	22
23	20/1	DRINKING FOUNTAIN			370			720	FURNITURE	20/1	24
25	20/1	RECEPT - MPOE	900			720			FURNITURE	20/1	26
27	20/1	RECEPT - MPOE		360			720		FURNITURE	20/1	28
29	20/1	RECEPT - 2ND FLR IDF RM			360			720	FURNITURE	20/1	30
31	20/1	RECEPT - COPY MCHN. RM	500			720			FURNITURE	20/1	32
33	20/1	RECEPT		1,200			720		FURNITURE	20/1	34
35	20/1	RECEPT - ROOF			540			200	CLOCK - ROOF	20/1	36
37	20/1	SPARE							SPARE	20/1	38
39	20/1	SPARE							SPARE	20/1	40
41	20/1	SPARE							SPARE	20/1	42

PHASE TOTALS

A	B	C
10,860	10,920	8,590

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	30,370 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	30,370 Watts
TOTAL DEMAND AMPS	84 AMPS

PANEL "P2"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	FA POWER SUPPLY 'FAPS2'	200			200			SECURITY PANEL PWR SUPPLY	20/1	2
3	20/1	COMM SYS POWER SUPPLY		200					SPARE	20/1	4
5	20/1	OVER HEAD DOOR			300				SPARE	20/1	6
7	20/1	FIRE SMOKE DAMPER	200						SPARE	20/1	8
9	20/1	SPARE							SPARE	20/1	10
11	20/1	SPARE							SPARE	20/1	12
13	20/1	SPARE							SPARE	20/1	14
15	20/1	SPARE							SPARE	20/1	16
17	20/1	SPARE							SPARE	20/1	18
19	20/1	SPARE							SPARE	20/1	20
21	20/1	SPARE							SPARE	20/1	22
23	20/1	SPARE							SPARE	20/1	24
25	20/1	SPARE							SPARE	20/1	26
27	20/1	SPARE							SPARE	20/1	28
29	20/1	SPARE							SPARE	20/1	30
31	20/1	SPARE							SPARE	20/1	32
33	20/1	SPARE							SPARE	20/1	34
35	20/1	SPARE							SPARE	20/1	36
37	20/1	SPARE							SPARE	20/1	38
39	20/1	SPARE							SPARE	20/1	40
41	20/1	SPARE							SPARE	20/1	42

PHASE TOTALS

A	B	C
600	200	300

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2] CIRCUIT APPLICABLE TO ALTERNATE BID.

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	1,100 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	1,100 Watts
TOTAL DEMAND AMPS	3 AMPS

PANEL "R2"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	RCPT - ASSESSMENT LAB	1,080			1,080			FURNITURE - OPEN OFFICE	20/1	2
3	20/1	RECEPT - OFFICE		1,080			1,080		FURNITURE - OPEN OFFICE	20/1	4
5	20/1	RECEPT - OFFICE			1,080			1,080	FURNITURE - OPEN OFFICE	20/1	6
7	20/1	RECEPT - RR, STORAGE	900			1,080			FURNITURE - OPEN OFFICE	20/1	8
9	20/1	RECEPT - OFFICE		1,080			1,080		FURNITURE - OPEN OFFICE	20/1	10
11	20/1	RECEPT - OFFICE			1,080			1,080	FURNITURE - OPEN OFFICE	20/1	12
13	20/1	RECEPT - OFFICE	1,080			1,080			FURN - LAB E-SERVICES	20/1	14
15	20/1	RECEPT - OFFICE		1,080			1,080		FURN - LAB E-SERVICES	20/1	16
17	20/1	RECEPT - OFFICE			1,080			1,080	FURN - LAB E-SERVICES	20/1	18
19	20/1	RECEPT - OFFICE	1,080			1,080			FURN - LAB E-SERVICES	20/1	20
21	20/1	RECEPT - CONF. RM		1,080			1,080		FURN - LAB E-SERVICES	20/1	22
23	20/1	SPARE			1,080			1,080	FURN - LAB E-SERVICES	20/1	24
25	20/1	CONF. RM - AV CONTROLLER	100			1,080			FURN - LAB E-SERVICES	20/1	26
27	20/1	RCPT - LAB E-SERVICES		720			1,080		FURN - LAB E-SERVICES	20/1	28
29	20/1	RECEPT - WELCOME DESK			900			1,080	FURN - LAB E-SERVICES	20/1	30
31	20/1	RCPT - LAB-GROUP COUNS	1,080			1,080			FURNITURE - LOBBY	20/1	32
33	20/1	RCPT - LAB-GROUP COUNS		360			1,080		FURNITURE - LOBBY	20/1	34
35	20/1	RECEPT - COPY/FAX MACHINE			360			1,080	FURNITURE - LOBBY	20/1	36
37	20/1	RECEPT - STANDING STATIONS	720						SPARE	20/1	38
39	20/1	RECEPT - STANDING STATIONS		540					SPARE	20/1	40
41	20/1	RECEPT - STANDING STATIONS			1,080				SPARE	20/1	42

PHASE TOTALS

A	B	C
12,520	12,420	13,140

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	38,080 Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	38,080 Watts
TOTAL DEMAND AMPS	106 AMPS

PANEL "H1"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	35/3	HOT WATER PUMP 'HWP-1'	2,102						SPACE	PFB	2
3	-			2,102					SPACE	PFB	4
5	-				2,102				SPACE	PFB	6
7	35/3	HOT WATER PUMP 'HWP-2'	2,102						SPACE	PFB	8
9	-			2,102					SPACE	PFB	10
11	-				2,102				SPACE	PFB	12
13	90/3	CHILLED WATER PUMP 'CHWP-3'	5,800						SPACE	PFB	14
15	-			5,800					SPACE	PFB	16
17	-				5,800				SPACE	PFB	18
19	90/3	CHILLED WATER PUMP 'CHWP-4'	5,800						SPACE	PFB	20
21	-			5,800					SPACE	PFB	22
23	-				5,800				SPACE	PFB	24
25	15/2	FAN COIL 'FC-1'	79						SPACE	PFB	26
27	-			79					SPACE	PFB	28
29	15/2	FAN COIL 'FC-2'			79				SPACE	PFB	30
31	-		79						SPACE	PFB	32
33	PFB	SPACE							SPACE	PFB	34
35	PFB	SPACE							SPACE	PFB	36
37	PFB	SPACE							SPACE	PFB	38
39	PFB	SPACE							SPACE	PFB	40
41	PFB	SPACE							SPACE	PFB	42

PHASE TOTALS

A	B	C
15,962	15,883	15,883

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	47,728 Watts
LARGEST MOTOR x 25%	1,450 Watts
TOTAL DEMAND LOADS	49,178 Watts
TOTAL DEMAND AMPS	137 AMPS

PANEL "L1"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

35 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	LTG - NW 1ST FLOOR	1,150			1,236			LTG - RR,WEST OFFICES,MECH	20/1	2
3	20/1	LTG - NE 1ST FLOOR		1,274			1,405		LTG - OPEN OFFICES	20/1	4
5	20/1	LTG - SE 1ST FLOOR			1,363			20	LTG - ELEVATOR PIT	20/1	6
7	20/1	LTG - EXTERIOR	175			180			LTG - EDGE LIT SIGNS	20/1	8
9	20/1	LTG - ELEVATOR CNTR RM		32			205		LTG - EXTERIOR	20/1	10
11	20/1	LTG - NW 1ST FLOOR			286			905	LTG - EXIST COLLEGE CENTER	20/1	12
13	20/1	LTG - EXTERIOR	135			1,488			LTG - EXIST COLLEGE CNTR [2]	20/1	14
15	20/1	SPARE					744		LTG - EXIST COLLEGE CNTR [2]	20/1	16
17	20/1	SPARE							SPARE	20/1	18
19	20/1	SPARE							SPARE	20/1	20
21	20/1	SPARE							SPARE	20/1	22
23	20/1	SPARE							SPARE	20/1	24
25	20/1	SPARE							SPARE	20/1	26
27	20/1	SPARE							SPARE	20/1	28
29	20/1	SPARE							SPARE	20/1	30

PHASE TOTALS

A	B	C
4,364	3,660	2,574

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2] CIRCUIT APPLICABLE TO ALTERNATE BID.

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	13,248 Watts
RECEPTACLES / OTHER x 100%	Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	13,248 Watts
TOTAL DEMAND AMPS	37 AMPS

INVERTER "INV"

(FED BY PANEL "R3")

120 Volt, 1 Phase, 2 Wire
20 Amp BUS CU.
Amp MCB
20 Amp MLO

10 KAIC Rating
SURFACE Mounted
NEMA 1 Type

CKT.	BKR	DESCRIPTION	LOAD (WATTS)
1	20/1	EGRESS LTG - SECOND FLOOR	852
2	20/1	EGRESS LTG - FIRST FLOOR	24
3	20/1	SPARE	
		LOAD TOTAL	876

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	1095 Watts
RECEPTACLES / OTHER x 100%	Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	1095 Watts
TOTAL DEMAND AMPS	9 AMPS

PANEL "H2"

120/208 Volt, 3 Phase, 4 Wire
400 Amp BUS CU.
Amp MCB
400 Amp MLO

22 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	125/3	AIR HANDLER UNIT 'AHU-1'	13,113			1,675			CHILLED WATER PUMP 'CHWP-3'	20/2	2
3	-			13,113			1,675			-	4
5	-				13,113			1,675	CONDENSING UNIT 'CU-3'	20/2	6
7	110/3	AIR HANDLER UNIT 'AHU-2'	9,823			1,675				-	8
9	-			9,823			1,675		CONDENSING UNIT 'CU-4'	20/2	10
11	-				9,823			1,675		-	12
13	15/3	MECH UNIT 'REF-1'	576			1,310			CONDENSING UNIT 'CU-1'	15/2	14
15	-			576			1,310			-	16
17	-				576			79	FAN COIL 'FC-3'	15/2	18
19	15/1	MECH UNIT 'REF-2'	360			79				-	20
21	20/1	WATER HEATER 'WH-1'		81			79		FAN COIL 'FC-4'	15/2	22
23	15/1	CIRC PUMP 'CP-1'			55			79		-	24
25	PFB	SPACE							SPACE	PFB	26
27	PFB	SPACE							SPACE	PFB	28
29	PFB	SPACE							SPACE	PFB	30
31	PFB	SPACE							SPACE	PFB	32
33	PFB	SPACE							SPACE	PFB	34
35	PFB	SPACE							SPACE	PFB	36
37	PFB	SPACE							SPACE	PFB	38
39	PFB	SPACE							SPACE	PFB	40
41	PFB	SPACE							SPACE	PFB	42

PHASE TOTALS

A	B	C
28,666	28,332	27,075

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	Watts
RECEPTACLES / OTHER x 100%	84,018 Watts
LARGEST MOTOR x 25%	3,278 Watts
TOTAL DEMAND LOADS	87,296 Watts
TOTAL DEMAND AMPS	242 AMPS

PANEL "L2"

120/208 Volt, 3 Phase, 4 Wire
225 Amp BUS CU.
Amp MCB
225 Amp MLO

14 KAIC Rating
SURFACE Mounted
NEMA 1 Type

PHASE SUMMARY (WATTS)

CKT.	BKR	DESCRIPTION	A	B	C	A	B	C	DESCRIPTION	BKR	CKT.
1	20/1	LTG - SECOND FLOOR - N.W.	1,272			932			LTG - SECOND FLOOR - N.E.	20/1	2
3	20/1	LTG - SECOND FLOOR - WEST		1,515			1,423		LTG - SECOND FLOOR - EAST	20/1	4
5	20/1	LTG - SECOND FLOOR - S.E.			608			1,171	LTG - CORRIDOR	20/1	6
7	20/1	LTG - CORRIDOR	1,081			725			LTG - CORRIDOR	20/1	8
9	20/1	LTG - ROOF SIGN		500			140		LTG - EDGE LIT	20/1	10
11	20/1	SPARE						44	LTG - EXIT LIGHTS	20/1	12
13	20/1	SPARE							SPARE	20/1	14
15	20/1	SPARE							SPARE	20/1	16
17	20/1	SPARE							SPARE	20/1	18
19	20/1	SPARE							SPARE	20/1	20
21	20/1	SPARE							SPARE	20/1	22
23	20/1	SPARE							SPARE	20/1	24
25	20/1	SPARE							SPARE	20/1	26
27	20/1	SPARE							SPARE	20/1	28
29	20/1	SPARE							SPARE	20/1	30

PHASE TOTALS

A	B	C
4,010	3,578	1,823

PANEL AND CIRCUIT BREAKER NOTES:

[1] MULTIPLE CIRCUITS SHARING THE SAME CONDUIT AND NEUTRAL SHALL HAVE HANDLE TIES AT BREAKERS AND WIRE IN PANEL TIES PER CEC 210.4.

[2]

DEMAND LOADS	
LIGHTING / CONTINUOUS LOAD x 125%	11,764 Watts
RECEPTACLES / OTHER x 100%	Watts
LARGEST MOTOR x 25%	Watts
TOTAL DEMAND LOADS	11,764 Watts
TOTAL DEMAND AMPS	33 AMPS

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

TROY PENNINGTON
C-31285
5-31-19

ARCHITECT'S STAMP

FILE NO.43-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
OFFICE OF REGULATION SERVICES
02-115990
AC____ FLS____ SS____
DATE ____

APPROVAL

THIS DRAWING IS NOT FINAL OR TO BE USED FOR CONSTRUCTION UNTIL IT IS SIGNED BY THE ARCHITECT AND ENGINEER.

CONSULTANT

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p 916-771-0778
www.lpengineers.com
Job #: 15-2266

E 16243
EXP. 12-31-18

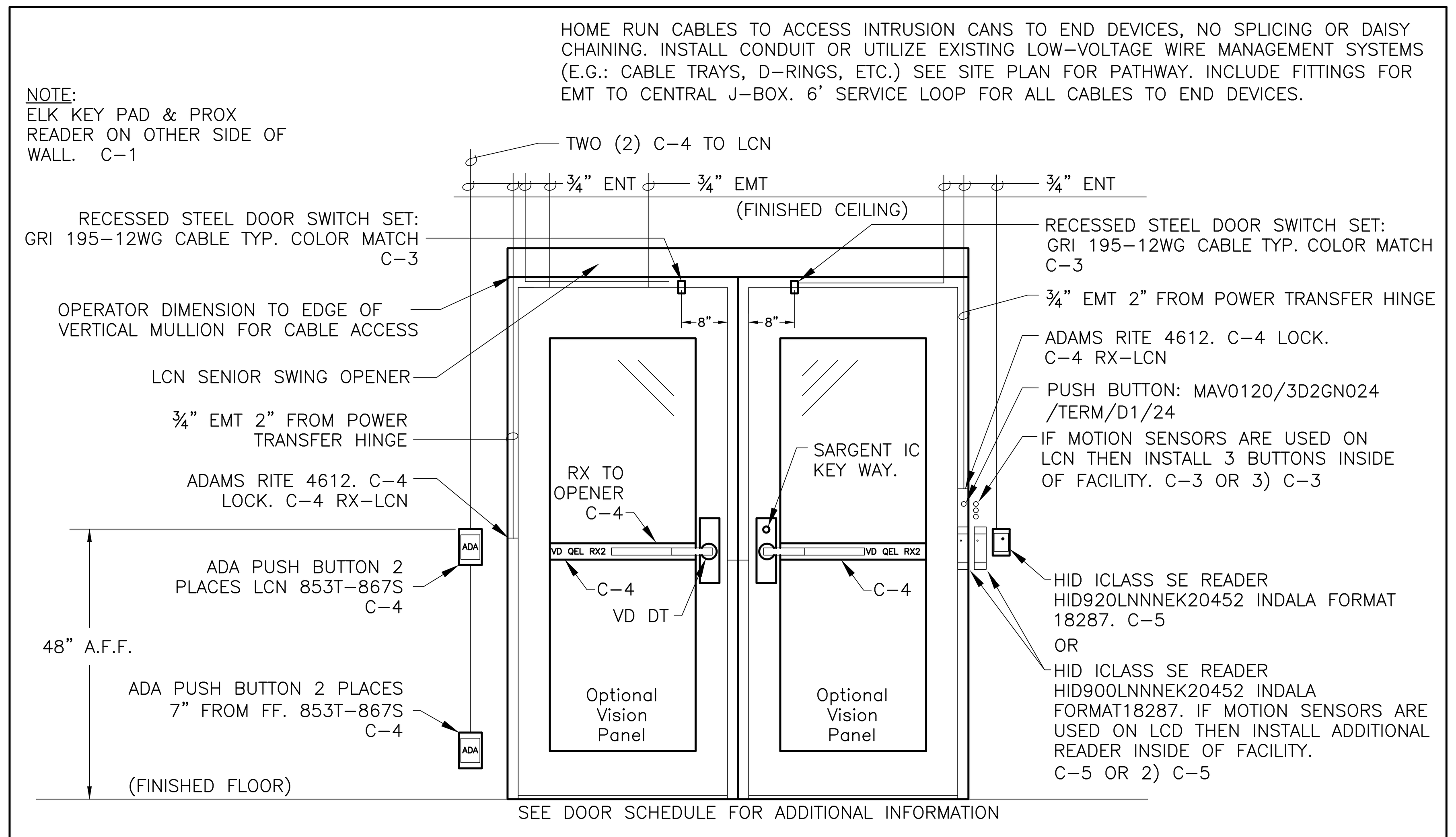
ELECTRICAL PANEL SCHEDULES

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:

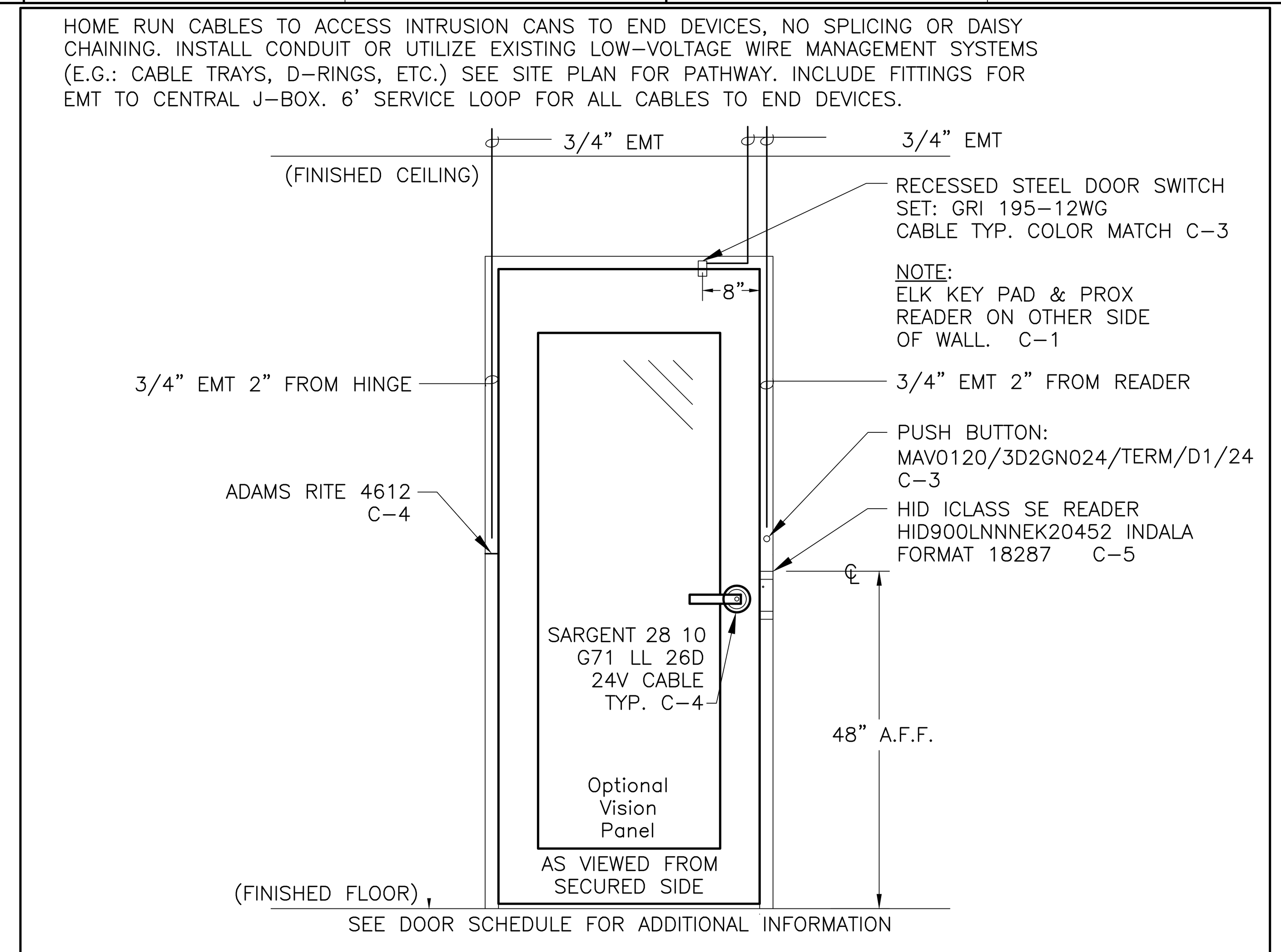
E7.02

DSA SUBMITTAL II



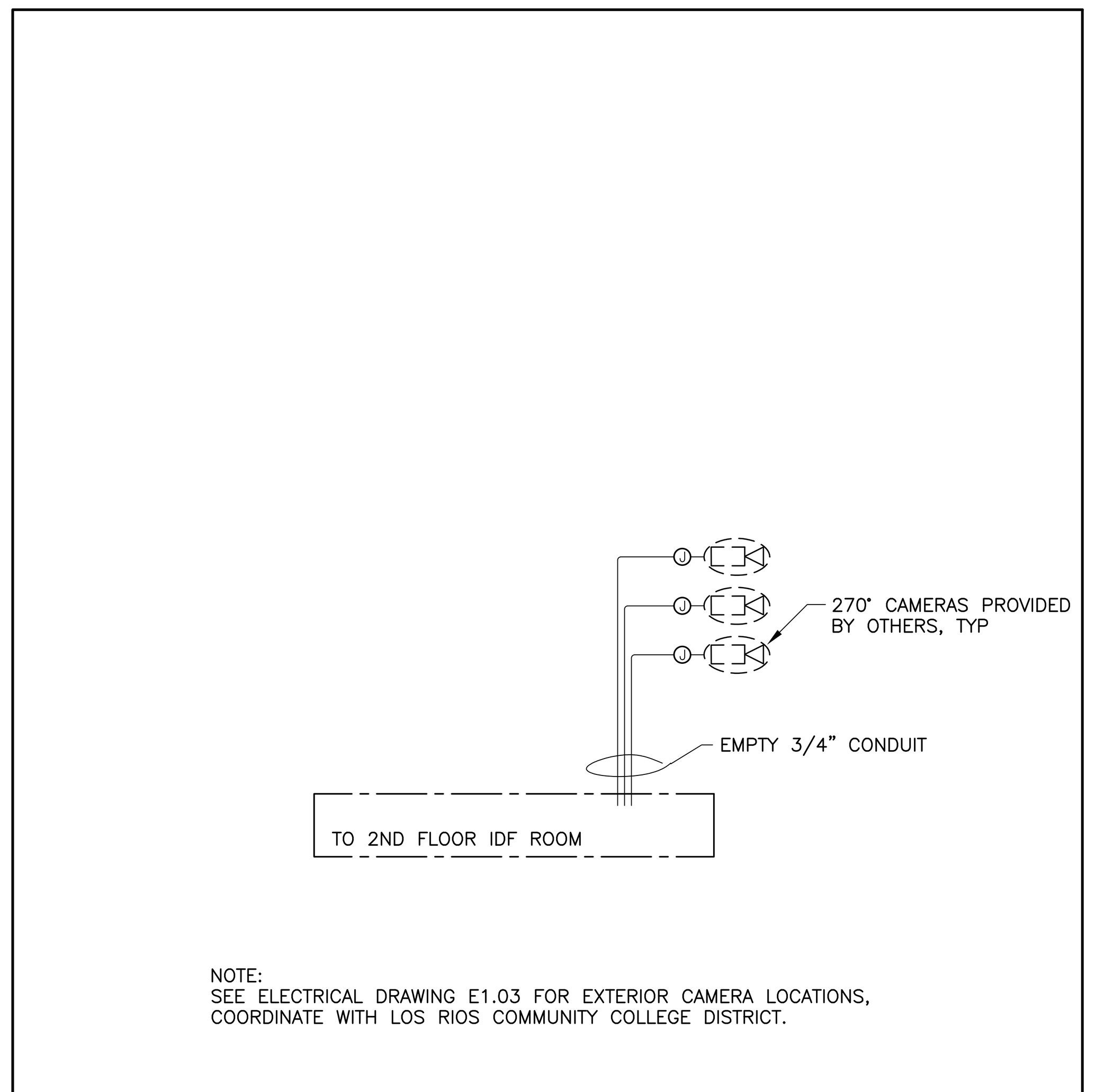
HOME RUN CABLES TO ACCESS INTRUSION CANS TO END DEVICES, NO SPLICING OR DAISY CHAINING. INSTALL CONDUIT OR UTILIZE EXISTING LOW-VOLTAGE WIRE MANAGEMENT SYSTEMS (E.G.: CABLE TRAYS, D-RINGS, ETC.) SEE SITE PLAN FOR PATHWAY. INCLUDE FITTINGS FOR EMT TO CENTRAL J-BOX. 6' SERVICE LOOP FOR ALL CABLES TO END DEVICES.
NOTE:
ELK KEY PAD & PROX READER ON OTHER SIDE OF WALL. C-1
TWO (2) C-4 TO LCN
¾" ENT
¾" ENT
¾" ENT
(FINISHED CEILING)
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
OPERATOR DIMENSION TO EDGE OF VERTICAL MULLION FOR CABLE ACCESS
¾" EMT 2" FROM POWER TRANSFER HINGE
LCN SENIOR SWING OPENER
ADAMS RITE 4612. C-4 LOCK. C-4 RX-LCN
¾" EMT 2" FROM POWER TRANSFER HINGE
PUSH BUTTON: MAV0120/3D2GN024 /TERM/D1/24
SARGENT IC KEY WAY.
IF MOTION SENSORS ARE USED ON LCN THEN INSTALL 3 BUTTONS INSIDE OF FACILITY. C-3 OR 3) C-3
ADAMS RITE 4612. C-4 LOCK. C-4 RX-LCN
RX TO OPENER C-4
ADA PUSH BUTTON 2 PLACES LCN 853T-867S C-4
C-4
VD DT
C-4
HID ICLASS SE READER HID920LNNNEK20452 INDALA FORMAT 18287. C-5
OR
HID ICLASS SE READER HID900LNNNEK20452 INDALA FORMAT18287. IF MOTION SENSORS ARE USED ON LCD THEN INSTALL ADDITIONAL READER INSIDE OF FACILITY. C-5 OR 2) C-5
48" A.F.F.
ADA PUSH BUTTON 2 PLACES 7" FROM FF. 853T-867S C-4
Optional Vision Panel
Optional Vision Panel
(FINISHED FLOOR)
SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

DOUBLE OR SLIDER WITH OPENER NTS 4

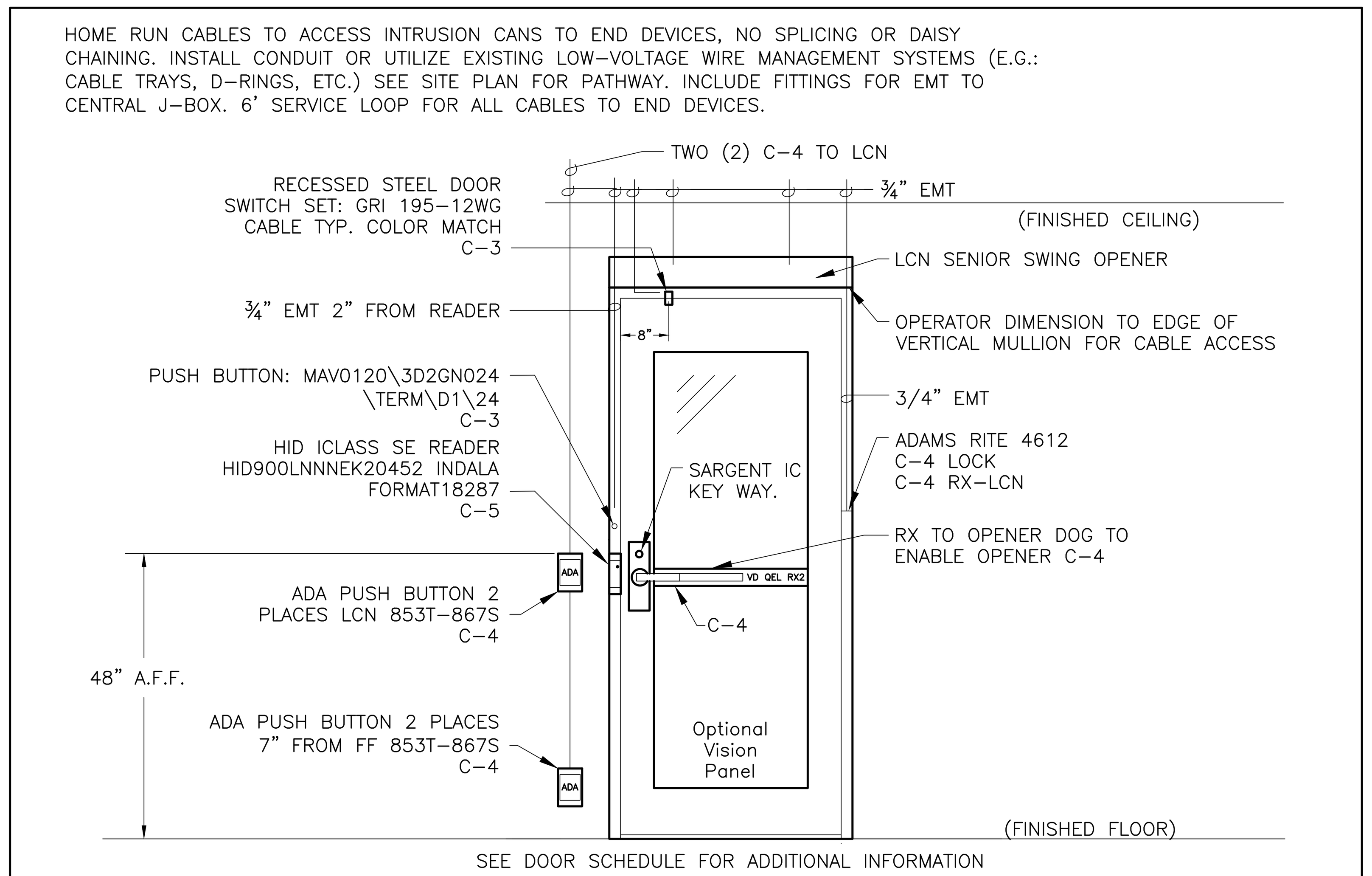


HOME RUN CABLES TO ACCESS INTRUSION CANS TO END DEVICES, NO SPLICING OR DAISY CHAINING. INSTALL CONDUIT OR UTILIZE EXISTING LOW-VOLTAGE WIRE MANAGEMENT SYSTEMS (E.G.: CABLE TRAYS, D-RINGS, ETC.) SEE SITE PLAN FOR PATHWAY. INCLUDE FITTINGS FOR EMT TO CENTRAL J-BOX. 6' SERVICE LOOP FOR ALL CABLES TO END DEVICES.
3/4" EMT
3/4" EMT
(FINISHED CEILING)
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
NOTE:
ELK KEY PAD & PROX READER ON OTHER SIDE OF WALL. C-1
3/4" EMT 2" FROM HINGE
3/4" EMT 2" FROM READER
PUSH BUTTON: MAV0120/3D2GN024/TERM/D1/24 C-3
ADAMS RITE 4612 C-4
HID ICLASS SE READER HID900LNNNEK20452 INDALA FORMAT 18287 C-5
SARGENT 28 10 G71 LL 26D 24V CABLE TYP. C-4
48" A.F.F.
Optional Vision Panel
AS VIEWED FROM SECURED SIDE
(FINISHED FLOOR)
SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

SINGLE PED WITH ELECTRIC LATCH NTS 1

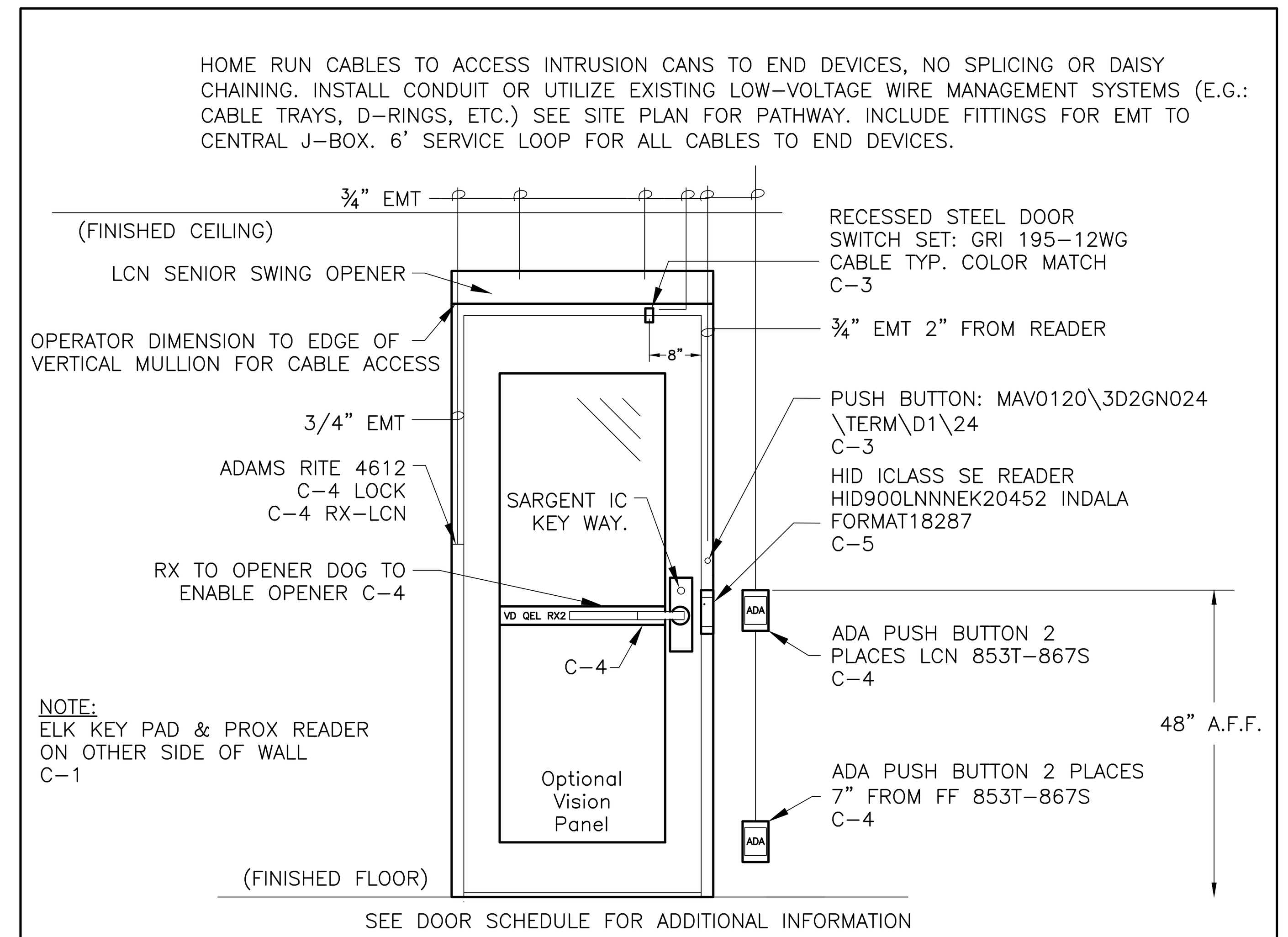


CCTV RISER DIAGRAM NTS 7



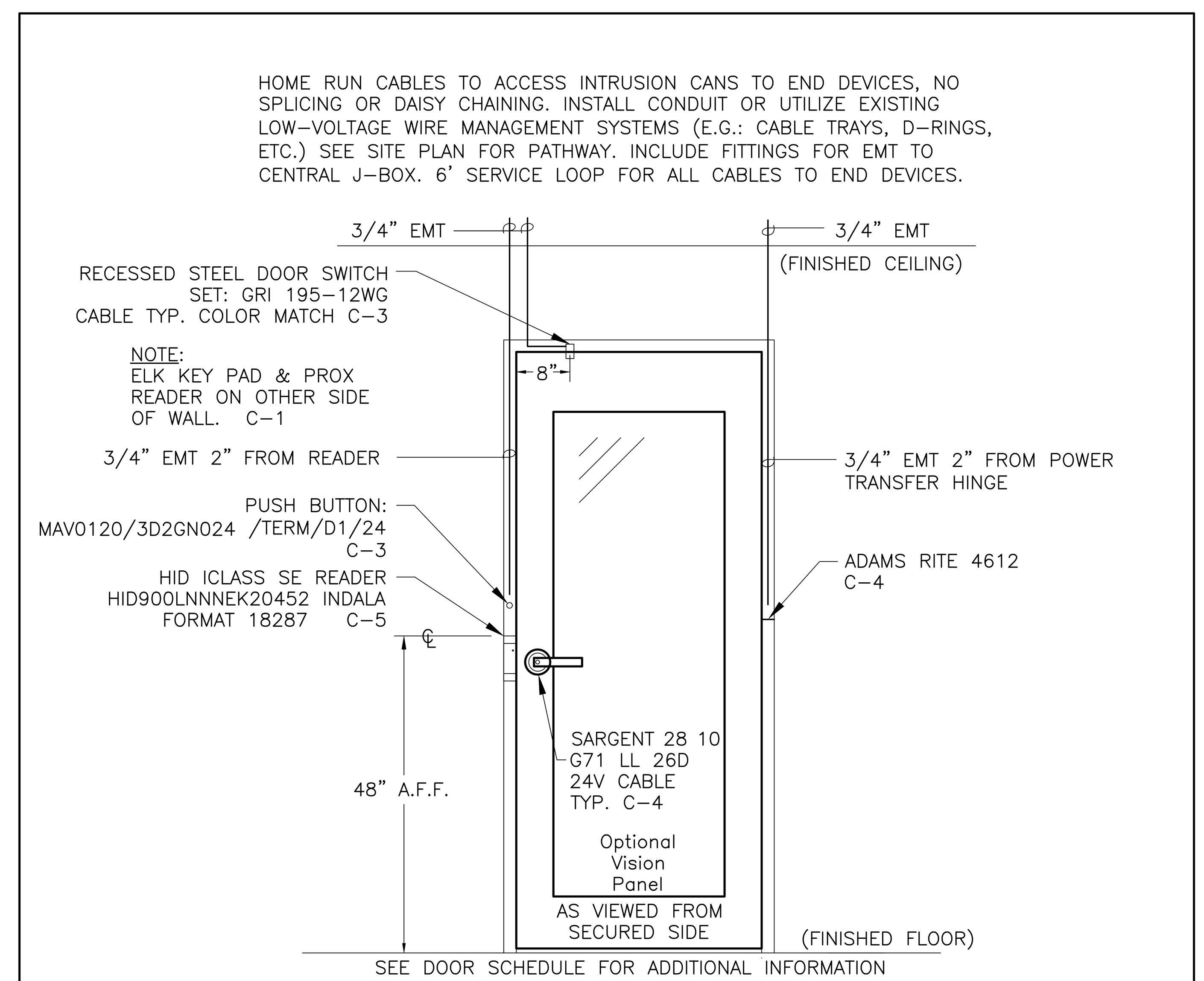
HOME RUN CABLES TO ACCESS INTRUSION CANS TO END DEVICES, NO SPLICING OR DAISY CHAINING. INSTALL CONDUIT OR UTILIZE EXISTING LOW-VOLTAGE WIRE MANAGEMENT SYSTEMS (E.G.: CABLE TRAYS, D-RINGS, ETC.) SEE SITE PLAN FOR PATHWAY. INCLUDE FITTINGS FOR EMT TO CENTRAL J-BOX. 6' SERVICE LOOP FOR ALL CABLES TO END DEVICES.
TWO (2) C-4 TO LCN
¾" EMT
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
(FINISHED CEILING)
LCN SENIOR SWING OPENER
¾" EMT 2" FROM READER
OPERATOR DIMENSION TO EDGE OF VERTICAL MULLION FOR CABLE ACCESS
PUSH BUTTON: MAV0120\3D2GN024 \TERM\D1\24 C-3
3/4" EMT
HID ICLASS SE READER HID900LNNNEK20452 INDALA FORMAT18287 C-5
SARGENT IC KEY WAY.
ADAMS RITE 4612 C-4 LOCK C-4 RX-LCN
RX TO OPENER DOG TO ENABLE OPENER C-4
ADA PUSH BUTTON 2 PLACES LCN 853T-867S C-4
C-4
48" A.F.F.
ADA PUSH BUTTON 2 PLACES 7" FROM FF 853T-867S C-4
Optional Vision Panel
(FINISHED FLOOR)
SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

SINGLE RH WITH OPENER NTS 5



HOME RUN CABLES TO ACCESS INTRUSION CANS TO END DEVICES, NO SPLICING OR DAISY CHAINING. INSTALL CONDUIT OR UTILIZE EXISTING LOW-VOLTAGE WIRE MANAGEMENT SYSTEMS (E.G.: CABLE TRAYS, D-RINGS, ETC.) SEE SITE PLAN FOR PATHWAY. INCLUDE FITTINGS FOR EMT TO CENTRAL J-BOX. 6' SERVICE LOOP FOR ALL CABLES TO END DEVICES.
¾" EMT
(FINISHED CEILING)
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
LCN SENIOR SWING OPENER
¾" EMT 2" FROM READER
OPERATOR DIMENSION TO EDGE OF VERTICAL MULLION FOR CABLE ACCESS
3/4" EMT
PUSH BUTTON: MAV0120\3D2GN024 \TERM\D1\24 C-3
ADAMS RITE 4612 C-4 LOCK C-4 RX-LCN
SARGENT IC KEY WAY.
HID ICLASS SE READER HID900LNNNEK20452 INDALA FORMAT18287 C-5
RX TO OPENER DOG TO ENABLE OPENER C-4
ADA PUSH BUTTON 2 PLACES LCN 853T-867S C-4
C-4
NOTE:
ELK KEY PAD & PROX READER ON OTHER SIDE OF WALL C-1
48" A.F.F.
ADA PUSH BUTTON 2 PLACES 7" FROM FF 853T-867S C-4
Optional Vision Panel
(FINISHED FLOOR)
SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

SINGLE LH WITH OPENER NTS 2



HOME RUN CABLES TO ACCESS INTRUSION CANS TO END DEVICES, NO SPLICING OR DAISY CHAINING. INSTALL CONDUIT OR UTILIZE EXISTING LOW-VOLTAGE WIRE MANAGEMENT SYSTEMS (E.G.: CABLE TRAYS, D-RINGS, ETC.) SEE SITE PLAN FOR PATHWAY. INCLUDE FITTINGS FOR EMT TO CENTRAL J-BOX. 6' SERVICE LOOP FOR ALL CABLES TO END DEVICES.
3/4" EMT
3/4" EMT
(FINISHED CEILING)
RECESSED STEEL DOOR SWITCH SET: GRI 195-12WG CABLE TYP. COLOR MATCH C-3
NOTE:
ELK KEY PAD & PROX READER ON OTHER SIDE OF WALL. C-1
3/4" EMT 2" FROM READER
3/4" EMT 2" FROM POWER TRANSFER HINGE
PUSH BUTTON: MAV0120/3D2GN024 /TERM/D1/24 C-3
ADAMS RITE 4612 C-4
HID ICLASS SE READER HID900LNNNEK20452 INDALA FORMAT 18287 C-5
SARGENT 28 10 G71 LL 26D 24V CABLE TYP. C-4
48" A.F.F.
Optional Vision Panel
AS VIEWED FROM SECURED SIDE
(FINISHED FLOOR)
SEE DOOR SCHEDULE FOR ADDITIONAL INFORMATION

SINGLE RH NTS 3

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES
02-115990
AC ___ FLS ___ SS ___
DATE ___

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

ARCHITECT'S STAMP APPROVAL

CONSULTANT

LP CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd. Roseville, CA 95678 p 916-771-0778
www.lpengineers.com Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER E16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

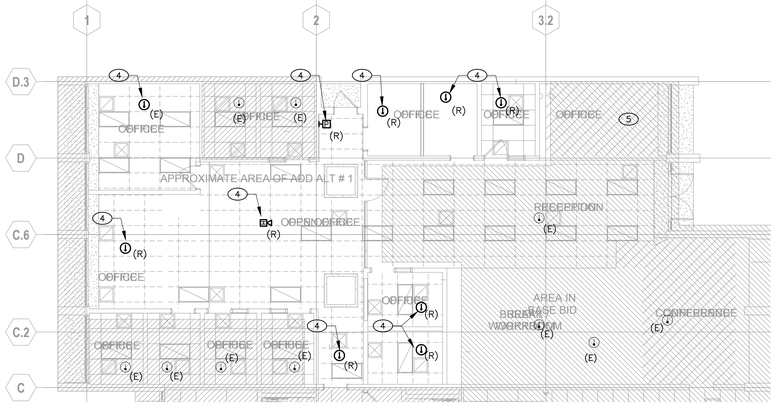
DETAILS - SECURITY

PROJECT NO: 201-0065
DATE: 01.19.2018

SHEET NO:
E8.05

6/8/2017 7:46:09 AM

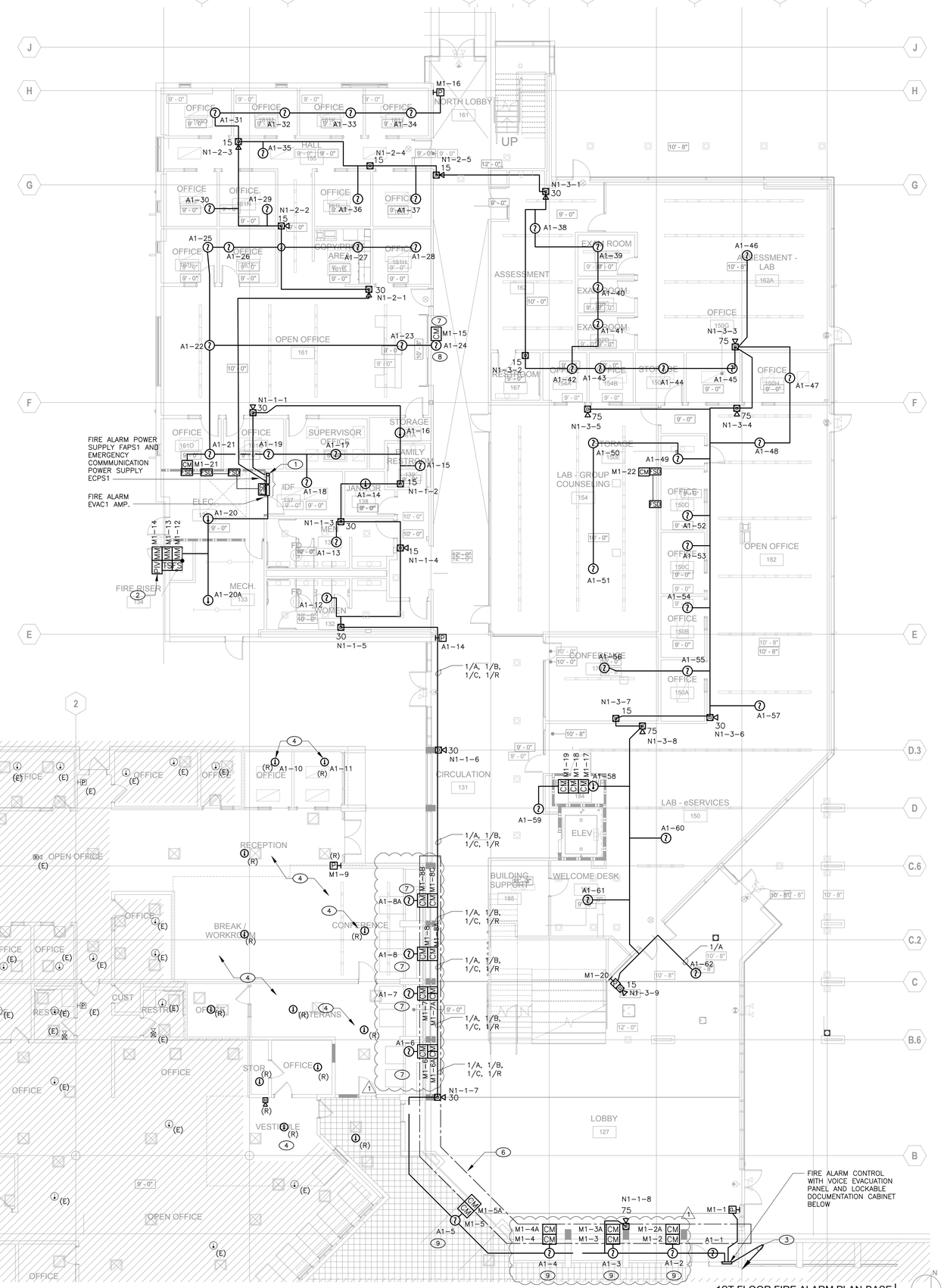
DSA SUBMITTAL II



1ST FLOOR FIRE ALARM PLAN ADD-ALTERNATE 2
1/8" = 1'-0"

KEY NOTES

1. 2"C RISER UP TO 2ND FLOOR FIRE ALARM POWER SUPPLY "FAPS-2" SEE FA2.02.
2. PROVIDE 1/2" C., 1/AE, FOR PIV MONITORING, COORDINATE WITH CIVIL FOR EXACT LOCATION OF PIV.
3. PROVIDE 1/2" C., 1/A FOR INTERCONNECTION BETWEEN EXISTING FIRE ALARM CONTROL PANEL IN ELECT/MECH ROOM 108 AND NEW FIRE ALARM CONTROL PANEL. PROVIDE ALL NECESSARY COMPONENTS, WIRES AND PROGRAMMING FOR A COMPLETE AND OPERABLE SYSTEM. INTERCONNECTION OF THE TWO PANELS SO IF ANY ALARM IS TRIPPED BOTH PANELS WILL BE IN ALARM.
4. RECONNECT (E) SMOKE DETECTORS. PRESERVE EXISTING CIRCUITRY FOR RECONNECTION PER SHEET, KEY NOTE
5. BASE BID SEE 1/FA2.01 FOR WORK IN THIS AREA.
6. AREA OF BUILDING EXPANSION JOINT. PROVIDE CONDUIT SEISMIC JOINT WHEN PASSING THROUGH THIS LOCATION. SEE ARCHITECTURAL DRAWINGS. REFER TO "SEISMIC JOINT CONDUIT DETAIL" 9/E8.02.
7. ONE FIRE SHUTTER AND ONE FIRE CURTAIN AT THIS LOCATION (ONE ON EACH SIDE OF WALL). SEE ARCHITECTURAL DETAIL F10/A9.11, PROVIDE RELAY AND ALL NECESSARY COMPONENTS, PROGRAMING FOR CLOSURE IN ALARM. COORDINATE FIRE REQUIREMENTS WITH SHUTTER AND CURTAIN SUPPLIER AND PROVIDE ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM
8. MOUNT ABOVE DOOR ON CEILING.
9. TWO FIRE CURTAINS A THIS LOCATIONS (ONE ON EACH SIDE OF WALL). SEE ARCHITECTURAL DETAIL F10/A9.11 PROVIDE RELAY AND ALL NECESSARY COMPONENTS, PROGRAMMING FOR CLOSURE IN ALARM. COORDINATE FIRE ALARM REQUIREMENTS WITH CURTAIN SUPPLIER AND PROVIDED ALL COMPONENTS AND CONNECTIONS FOR A COMPLETE AND OPERABLE SYSTEM.



1ST FLOOR FIRE ALARM PLAN-BASE 1
1/8" = 1'-0"

6/8/2017 7:46:09 AM

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NO.	ISSUE	DATE
1	ADDENDUM #1	03-29-18

FILE NO.43-C1

LICENSED ARCHITECT TROY PENNINGTON C-31285 5-31-19 RENEWAL DATE STATE OF CALIFORNIA

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT OFFICE OF REGULATION SERVICES 02-115990 AC_____ FLS_____ SS_____ DATE _____

ARCHITECT'S STAMP APPROVAL

CONSULTANT

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
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p 916-771-0778
www.lpengineers.com
Job #: 15-2266

REGISTERED PROFESSIONAL ENGINEER TIMOTHY J. PAPE E-16243 EXP. 12-31-18 ELECTRICAL STATE OF CALIFORNIA

1ST FLOOR FIRE ALARM PLAN

PROJECT NO: 201-0065

DATE: 01.19.2018

SHEET NO:

FA2.01

DSA SUBMITTAL II

SECTION 00 01 10

TABLE OF CONTENTS

1

END OF SECTION

Table of Contents

SECTION 011100- SUMMARY OF WORK

PART 1 GENERAL

1.1 SECTION INCLUDES:

A. Work Covered by Contract Documents.

B. Work by Others.

C. Contractor Use of Premises.

1.2 WORK COVERED BY CONTRACT DOCUMENTS:

A. Outline of Work: The work to be performed by Contractor shall conform to the requirements of the Contract Documents, including but not limited to, the General Conditions, specifications, drawings, and other related documents, and include the furnishing of all labor, materials, tools, equipment, plant, and services necessary therefore and incidental thereto to complete the project. The project is a new steel framed Student Services building attached to the existing Student Center building at the Cosumnes River College. The new Student Services building is approximately 34,000 square feet, two story Type IIB with fire sprinklers. The scope of work includes, but is not limited to the following:

1. Selective demolition for existing site and landscape areas as well as in the existing Student Center facility. The selective demolition is to prepare the site and structure to accommodate the new structure as well as revised floor plan changes in the existing building. Areas for demolition include but not limited to concrete walkways, landscaping planters, finishes, slabs, footing, storefront, ceilings, electrical, mechanical, plumbing, site utilities and an existing gas line.
2. Modernization to selective areas of the existing Student Center Facility.
3. Site utility work such as the completion of the existing hydronic system and fiber optic data system to create a continuous loop.
4. Localized landscaping to property site and the new building.
5. Site accessible upgrades to ramps, stairs, walkways for a continuous path of travel from building to parking and public transportation**.**

B. Phasing Plan and Allowable Utility Shutdowns.

1. Work within Buildings.

a. The Contractor shall submit a phasing plan identifying planned shutdowns to the owner for approval prior to beginning physical work within a building.
b. The number of allowed shut-downs per building tie-in is two each for the hot and chilled water systems. The normal maximum shutdown period is for a period of 60 hours except as noted below. Contractor shall assume that shutdowns will commence at 6:00 pm Friday and that the system be back up on line no later than 6:00 am Monday.
c. During cold weather periods, the chilled water system may be shut down for up to seven days with the District's approval. Cold weather periods are considered to be those days where the high temperature is forecasted to be below 70 degrees F.
d. During warm weather periods, the hot water system may be shut down for up to seven days with the District's approval. Warm weather periods

are considered to be those days where the high temperature is forecasted to be above 85 degrees F.

e. The District, at its sole discretion, may allow both the hot and the chilled water to be shut down for periods greater than 72 hours during periods of mild weather and upon written request by the Contractor.

f. A minimum two weeks notice is required for any electrical shut down. Electrical shut down work will be performed after hours, weekends, or holidays without any additional compensation.

g. The Contractor shall not be entitled to any additional compensation regardless of whether shutdowns greater than 60 hours are approved.

2. Work exterior to Buildings

a. The Contractor shall submit a phasing plan identifying site pedestrian access routes, road closures, and planned shutdowns to the owner for approval prior to beginning physical work outside a building in compliance with the phasing plan included in the contract documents. The normal maximum shutdown period is for a period of 60 hours except as noted below. Contractor shall assume that shutdowns will commence at 6:00 pm Friday and that the system be back up on line no later than 6:00 am Monday

b. During cold weather periods, the chilled water system may be shut down for up to seven days with the District's approval. Cold weather periods are considered to be those days where the high temperature is forecasted to be below 70 degrees F.

c. During warm weather periods, the hot water system may be shut down for up to seven days with the District's approval. Warm weather periods are considered to be those days where the high temperature is forecasted to be above 85 degrees F.

d. The District, at its sole discretion, may allow both the hot and the chilled water to be shut down for periods greater than 72 hours during periods of mild weather and upon written request by the Contractor.

e. A minimum two weeks notice is required for any electrical shut down. Electrical shut down work will be performed after hours, weekends, or holidays without any additional compensation.

f. The Contractor shall not be entitled to any additional compensation regardless of whether shutdowns greater than 60 hours are approved.

C. Campus Wide Electrical Shutdowns.

1. Work within or exterior to buildings.

a. The normal maximum shutdown period is for a period of 26 hours except as noted below. Contractor shall assume that shutdowns will commence at 6:00 PM Saturday and that the system will be back up on line no later than 8:00 PM Sunday.

b. The District, at its sole discretion, may allow switchgear to be shut down for periods greater than noted above during holidays upon written request by the Contractor.

c. A minimum of three weeks notice is required for any campus wide electrical shutdown. Electrical shut down work will be performed after hours, weekends, or holidays without any additional compensation.

d. The Contractor shall not be entitled to any additional compensation regardless of whether shutdowns greater than 26 hours are approved.

D. Temporary Power:

The Contractor shall provide generators, cabling, connection to existing panels, fuel, delivery and removal, monitoring, and security for the locations noted below during shut-down periods. This applies to base bid and alternate work.

a. Panel Location: Cafeteria panel KD. 150 amp panel. Feed with 60KW generator and provide 200' cable for connection.

b. Panel Location: Science panel PL2. 200 amp panel. Feed with 60KW generator and provide 200' cable for connection.

E. Project Completion Date: All work shall be completed within 480 calendar days after the construction start date specified in the Notice to Proceed.

F. Work Not Included: Except for such auxiliary work as shown or specified, or is necessary as part of the construction, the following is NOT included in this contract: Any work shown but marked "Not In Contract" (NIC) or otherwise designated to be done under another Contract or by the District.

E. Location of Site: The site of the work is located at 8401 Center Parkway, Sacramento, CA 95823**.**

1.3 CONTRACT METHOD

A. Construct the Work under a single Lump Sum Contract.

1.4 CONTRACTOR USE OF PREMISES

A. Contractor shall have use of the premises as described in the Construction drawings for access to and the execution of the Work. Portion of the site beyond areas in which construction operations are indicated are not to be disturbed.

B. Coordinate use of the premises with the acceptance of the District's Project Manager.

C. Assume full responsibility for the protection and safekeeping of products under this Contract, stored on the site.

D. Schedule deliveries so as to minimize space and time requirements for storage of materials and equipment on site.

E. Move any stored products under Contractor's control which interfere with the operations of the District or a separate contractor.

F. Obtain and pay for the use of additional storage or work areas needed for operations.

G. Contractor shall assume all responsibility for parking his own and his subcontractors' vehicles.

1.5 SURROUNDING SITE CONDITION SURVEY

A. Prior to commencing the work, the Contractor will implement all necessary provisions of the Special Project Procedures, Section 01 35 00. Contractor shall strictly follow these procedures at all times.

B. Prior to commencing the work, the Contractor, and District's representative shall tour the site together to examine and record damage to existing adjacent improvements. Provide photographs as record. This record shall serve as a basis for determination of subsequent damage due to the Contractor's operations and shall be signed by all parties making tour. Any cracks, sags, or damage to the improvements not noted in the original survey, but subsequently discovered, shall be reported to the District's Representative.

1.6 DISTRICT-FURNISHED ITEMS

A. The District may provide equipment, furniture or casework as indicated in drawings. The Work under this contract includes providing support systems to receive District's equipment, casework, and provide mechanical and electrical connections. Installation is included as part of Work under this Contract.

1. The District will arrange and pay for delivery of District-furnished items and will inspect deliveries for damage.
2. The Contractor is responsible for receiving, unloading and handling District-furnished items at the site.
2. The Contractor is responsible for protecting District-furnished items from damage, including damage from exposure to the elements, and to repair or replace items damaged as a result of his operations.

B. The Contractor shall inform District in writing of Contractor requested delivery dates of District-furnished items. The Contractor is responsible for designating the delivery dates of District-furnished items in the Contractor's Construction Schedule. These delivery dates are to be based on a mutually agreed-upon schedule between the District and the Contractor.

END OF SECTION

SECTION 01 2100 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements governing allowances.

1. Contingency Allowances have been established for the following items:
   a. Unforeseen work associated with Site Utility Work and modifications to existing structure.

2. Contingency Allowances are to be included in the base bid

1.3 INFORMATIONAL SUBMITTALS

A. Submit time sheets and other documentation to show labor time and cost for allowance items.

B. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.4 COORDINATION

A. Coordinate allowance items with other portions of the Work.

1.5 CONTINGENCY ALLOWANCES

A. Use the contingency allowance only as directed by Owner's Representative for Owner’s purposes and only by Change Orders that indicate amounts to be charged to the allowance.

B. Contractor's overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance are included in the allowance and are not part of the Contract Sum. These costs include insurance, equipment rental, and similar costs.

C. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

1.6 ADJUSTMENT OF ALLOWANCES

A. Do not include Contractor's or subcontractor's indirect expense in the Change Order cost amount unless it is clearly shown that the nature or extent of work has changed from what could have been foreseen from information in the Contract Documents.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 PREPARATION

A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.2 SCHEDULE OF ALLOWANCES

A. Contingency Allowance No. 1: Include a contingency allowance of $80,000 for use according to Owner's written instructions for unforeseen site utility work.
B. Contingency Allowance No. 2: Include a contingency allowance of $20,000 for use according to Owner’s written instructions for unforeseen modifications to existing structure.

END OF SECTION 012100

SECTION 012300 - ALTERNATES

PART 1 GENERAL

1.1 RELATED DOCUMENTS:

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

1.2 SUMMARY:

A. This Section includes administrative and procedural requirements governing Alternates.

1.3 DEFINITIONS

A. Definition: An alternate is an amount proposed by bidders and stated on the Bid Form, for certain work defined in the bidding requirements that may be added to or deducted from the base bid amount if the District decides to accept a corresponding change in either the amount of construction to be completed, or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.

1. The cost for each Alternate is the net change to the Contract Sum to incorporate the Alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

A. Coordination: Modify or adjust affected adjacent Work as necessary to completely and fully integrate that Work into the Project.

1. Include as part of each Alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

B. Notification: Immediately following the award of the Contract, notify each party involved, in writing, of the status of each Alternate. Indicate whether Alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to Alternates.

C. Execute accepted Alternates under the same conditions as other Work of this Contract.

D. Schedule: A “Schedule of Alternatives” is included at the end of this Section. Specifications Sections referenced in the Schedule contain requirements for materials necessary to achieve the Work described under each Alternate.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.01 **SCHEDULE OF ALTERNATES**

A. ALTERNATE NO. 1: Additional modernization of existing office space to extent shown between gridlines C-D.3 and 1-4 and as indicated on sheet AD2.00B, A2.01B, A2.31B, E2.01B, M2.01B and other sheets.

B. ALTERNATE NO. 2: Remove existing floor finish done to slab at existing lobby (Waiting 105) indicated on Sheet AD2.00B. Preparation and cleaning existing slab to receive new finish. Provide and install epoxy terrazzo as indicated on Sheet A2.01B.

C. ALTERNATE NO. 3: sky lights, 6 round doom types and 1 slope horizontal aluminum framed see sheet A2.15B for detailed information.

D. ALTERNATE NO. 4: clock tower and additional structural framing.

E. ALTERNATE NO. 5: Remove existing service windows, bullnose countertop, and wall finishes at (E) lobby as indicated on sheet AD2.00B and A2.01B.
Provide and install new windows, countertop and finishes as indicated on sheet A4.03.

F. ALTERNATE NO. 6: In place of finish RF1 at 1st floor north lobby provide and install epoxy terrazzo SP7 as indicated on sheet A2.31A.

G. ALTERNATE NO.7: Not Used.

H. ALTERNATE NO. 9: Not Used.

END OF SECTION

SECTION 012500 - SUBSTITUTION PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements for handling requests for substitutions.

B. A sample substitution Request Form is included at the end of this Section. This form will also be used for "Or Approved Equal", and "Approved Equal" requests. Similar requirements for approving "Or Approved Equal", and "Approved Equal" are required as indicated in this Section for substitutions.

1.2 DEFINITIONS

A. Definitions used in this Section are not intended to change or modify the meaning of other terms used in the Contract Documents.

B. Substitutions: Requests for changes in products, materials, equipment, and methods of construction required by Contract Documents proposed by the Contractor after award of the Contract are considered requests for "substitutions." The following are not considered substitutions:

1. Revisions to Contract Documents requested by the District or Architect.
2. Specified options of products and construction methods included in Contract Documents.
3. The Contractor's determination of and compliance with governing regulations and orders issued by governing authorities.

C. "Or Approved Equal": Whenever, in Contract Documents, any material, process or article is indicated or specified by patent or proprietary name and/or by name of manufacturer, and is followed by the words "or equal" such name shall be deemed to be used for purpose of facilitating description of material and/or process desired, and Contractor may offer any material or process which shall be equal in every respect to that so indicated or specified; provided, however, that if material, process or article offered by Contractor is not, in opinion of Architect, equal in every respect to that specified, then Contractor must furnish material, process or article specified.

1.3 SUBMITTAL

A. Substitution Request Submittal: Requests for substitution will only be considered if received within 30 days after the date of the Contract. Substitutions may be considered after the 30 day period when a product becomes unavailable through no fault of the Contractor.

1. Submit 3 copies of each request for substitution for consideration. Submit requests in the form and in accordance with procedures required for Change Order proposals.

2. Identify the product, or the fabrication or installation method to be replaced in each request. Include related Specification Section and Drawing numbers. Provide complete documentation showing compliance with the requirements for substitutions, and the following information, as appropriate:

a. Product Data, including Drawings and descriptions of products, fabrication and installation procedures.
b. Samples, where applicable or requested.
c. A detailed comparison of significant qualities of the proposed substitution with those of the Work specified. Significant qualities may include elements such as size, weight, durability, performance, warranty and visual effect.
d. Coordination information, including a list of changes or modifications needed to other parts of the Work and to construction performed by the District and separate Contractors, that will become necessary to accommodate the proposed substitution.
e. A statement indicating the substitution's effect on the Contractor's Progress Schedule compared to the schedule without approval of the substitution. Indicate the effect of the proposed substitution on overall Contract Time.
f. Cost information, including a proposal of the net change, if any in the Contract Sum, including detailed cost differences with documentation supporting each item of costs.
g. Certification by the Contractor that the substitution proposed is equal-to or better in every significant respect to that required by the Contract Documents, and that it will perform adequately in the application indicated. Include the Contractor's waiver of rights to increases in the Contract Sum or Contract Time, that may subsequently become necessary because of the failure of the substitution to perform adequately, or any additional cost associate to substitution required to conform to design intent.

3. Architect's Action: The Architect will notify the Contractor of acceptance or rejection of the proposed substitution. If a decision on use of a proposed substitute cannot be made or obtained, Contractor shall use the product specified by name. Acceptance will be in the form of a Change Order or "minor change in work".

4. Only one substitution request per product will be considered. If proposed substitution is not accepted by Architect, Contractor shall submit specified item.

PART 2 - PRODUCTS

2.1 SUBSTITUTIONS

A. Conditions: The Contractor's substitution request will be received and considered by the Architect when one or more of the following conditions are satisfied, as determined by the Architect; otherwise requests will be returned without action except to record noncompliance with these requirements.

1. Extensive revisions to Contract Documents are not required.
2. Proposed changes are in keeping with the general intent of Contract Documents.
3. The request is timely, fully documented and properly submitted.
4. The request is directly related to an "or equal" clause or similar language in the Contract Documents.
5. The specified product or method of construction cannot be provided within the Contract Time due to no act or omission of Contractor or anyone for whom Contractor is legally responsible. The request will not be considered if the product or method cannot be provided as a result of failure to pursue the work promptly or coordinate activities properly.
6. The specified product or method of construction cannot receive necessary approval by a governing authority, and the requested substitution can be

approved.

7. A substantial advantage is offered the District, in terms of cost, time, energy conservation or other considerations of merit, after deducting offsetting responsibilities the District may be required to bear. Additional responsibilities for the District may include additional compensation to the Architect for redesign and evaluation services, increased cost of other construction by the District or separate Contractors, and similar considerations.
8. The specified product or method of construction cannot be provided in a manner that is compatible with other materials, and where the Contractor certifies that the substitution will overcome the incompatibility.
9. The specified product or method of construction cannot be coordinated with other materials, and where the Contractor certifies that the proposed substitution can be coordinated.
10. The specified product or method of construction cannot provide a warranty required by the Contract Documents and where the Contractor certifies that the proposed substitution provide the required warranty.
11. Any product or material submitted for substitution shall be tested as directed by the Architect, and the expense of such testing shall be paid by the manufacturer or vendor requesting substitution. Requests for substitutions must be accompanied with technical data, drawings, samples, literature and other detailed information as will demonstrate to the satisfaction of the Architect that the proposed substitute material, etc. is equal in quality and utility to that originally specified. If the Architect considers tests necessary to determine the quality or utility of any proposed material, etc., such tests shall be made at the expense of the Contractor by an established and unbiased testing laboratory approved by the Architect. The Architect's written approval of such substitutions must be obtained before fabrication or delivery to the site of materials, etc., other than those originally specified.

B. The Contractor's submittal and Architect's acceptance of Shop Drawings, Product Data or Samples that relate to construction activities not complying with the Contract Documents does not constitute an acceptable or valid request for substitution, nor does it constitute approval.

C. The Contractor is responsible to coordinate with all subcontractors and manufacturers of any related work associated with substitution. Acceptance of a substitution shall not relieve Contractor from responsibility for compliance with all requirements of any portion of Contract Documents, and Contractor shall be responsible, at its own expense, for any changes in other parts of the work which may be caused by substitution.

The substitution must not invalidate warranties or guaranties related to substitution or any related work associated to substitution.

D. All substitutions of structural materials require DSA approval.

E. The review of any proposed substitution shall be within a reasonable time. If Contractor believes that the review of a substitution request needs to be accelerated or completed by a date certain it shall conspicuously identify such a need on the transmittal of the request, and further identify and substantiate the reasons therefore.

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SUBSTITUTION REQUEST

PROJECT:_____

SPECIFIED ITEM:_____

SECTION:_____ PAGE:_____ PARAGRAPH:_____

DESCRIPTION:_____

PROPOSED SUBSTITUTION:_____

Attached data includes product description, specifications, drawings, photographs, performance and test data adequate for evaluation of the request. Applicable portions of the data are clearly identified indicating a side-by-side comparison of the major components of the specified and proposed product.

Attached data also includes a description of changes to the Contract Documents which the proposed substitution will require for proper installation.

The undersigned certifies that the following paragraphs, unless modified by attachments, are correct:

1. The proposed substitution does not affect dimensions shown on drawings.
2. The undersigned will pay for changes to the building design, including engineering design, detailing and construction cost caused by the requested substitution.
3. The proposed substitution will have no adverse effect on other trades, the construction schedule or specified warranty requirements.
4. Maintenance and service parts will be locally available for the proposed substitution.

The undersigned further states that the function, appearance and quality of the proposed substitution are equivalent or superior to the specified item.

Submitted by:

Signature:_____

Firm:_____

Address:_____

_____

Telephone:_____

Date:_____

For use by the design consultant

_____Accepted

_____ Accepted as noted

_____Not Accepted

By:_____

Remarks:_____

_____

Attachments:_____

SECTION 012600-CONTRACT MODIFICATION PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This section specifies administrative and procedural requirements for handling and processing Contract modifications.

1.2 MINOR CHANGES IN THE WORK

A. Supplemental instructions authorizing minor changes in the work, not involving an adjustment to the Contract Sum or Contract Time, will be issued by the Architect and/or the District's Project Manager through the Architect on AIA form G710, Architect's Supplemental Instructions. All changes must be stamped approved by DSA.

1.3 CHANGE ORDER PROPOSAL REQUESTS

A. District-Initiated Proposal Requests: Proposed changes in the work that will require adjustment to the Contract Sum or Contract Time will be issued by the Architect, with a detailed description of the proposed change and supplemental or revised Drawings and Specifications, if necessary.

1. Proposal requests issued by the Architect are for information only. Do not consider them as instruction either to stop work in progress, or to execute the proposed change.

2. Unless otherwise indicated in the proposal request, submit to the Architect and the District, a detailed, itemized cost breakdown for the cost necessary to execute the proposed change within 10 days of receipt of the proposal request.

    a. Include a list of quantities of products to be purchased and unit costs, along with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities and documentation to substantiate each item and sub-item of costs.
    b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
    c. Include a statement indicating the effect the proposed change in the work will have on the Contract Time and related cost for time extensions.

B. Contractor-Initiated Change Order Proposal Requests: When latent or other unforeseen conditions require modifications to the Contract, the Contractor may propose changes by submitting a request for a change to the Architect.

1. Include a statement outlining the reasons for the change and the effect of the change on the work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum and Contract Time.
2. Include a list of quantities of products to be purchased and unit costs along with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities and documentation to substantiate each item and sub-item of costs.
3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Comply with requirements in Section 01 25 00 Substitution Procedures if the proposed change in the work requires the substitution of one product or system

for a product or system specified.

5. The Architect shall review the Contractor's Change Order proposal request with the District, and submit a written response to the Contractor.

1.4 CONSTRUCTION CHANGE DIRECTIVE

A. Construction Change Directive: When the District and Contractor are not in total agreement on the terms of a Change Order Proposal Request, the Architect may issue a Construction Change Directive on AIA Form G714, instructing the Contractor to proceed with a change in the work, for subsequent inclusion in a Change Order. All Construction Change Directives must be stamped approved by DSA prior to implementing.

1. The Construction Change Directive will contain a complete description of the change in the work and designate the method to be followed to determine change in the Contract Sum or Contract Time.

B. Documentation: Maintain detailed records on a time and material basis of work required by the Construction Change Directive.

1. Documentation of Time and Materials work shall be submitted by the Contractor to the Project Inspector on a daily basis and, if approved, shall be signed by the Project Inspector.
   a. Contractor shall provide 48 hour notice to the Project Inspector prior to starting Time and Materials work.

2. After completion of the change, submit to the Architect an itemized account and supporting data necessary to substantiate cost and time adjustments to the Contract.

1.5 CONTRACT ADJUSTMENTS

A. Adjustments, if any, in the amount to be paid the Contractor by reason of the modifications of the work as set forth in a Contract Change Order, or Construction Change Directive, shall be determined by one or more of the cost adjustment methods outlined in the Changes Section of the General Conditions.

1.6 CHANGE ORDER PROCEDURES

A. Upon the District's approval of a Change Order Proposal Request, the Architect will issue a Change Order for signatures of the District and Contractor on AIA Form G701, or similar. All change orders must be stamped approved by DSA prior to proceeding with the work of the change order.

B. All Change orders will contain the following statement and must be acknowledged by Contractor on each Change Order:

This Change Order is full and complete compensation for Contractor and everyone for whom Contractor is legally responsible, including but not limited to, subcontractors and sub-subcontractors, for all work described, arising from or inferable herein, including but not limited to costs for delays, impact, inefficiency, acceleration, home office overhead (absorbed, unabsorbed and underabsorbed), field office overhead, lost profits, lost opportunity, claim preparation costs, change order preparation costs, direct costs, indirect costs, or any other costs, no matter how characterized. Any attempt by Contractor or anyone for whom it is legally responsible, to limit, alter or modify this Change Order may nullify the Change Order.

1.7 UNILATERAL CHANGE ORDERS

It is the intent of the District to have change orders issued bilaterally. However, the District recognizes that there may arise one or more instances where bilateral agreement cannot be reached with the Contractor with regards to a change in contract sum and/or time. If, after the Contractor has submitted its cost and time proposal, and the District and the Contractor fail to successfully negotiate and agree on a time and/or cost for the proposed Change Order, the District may issue a unilateral Change Order to the Contractor in the amount that the District believes is due and the Contractor must proceed with the changed work. If the Contractor disputes any portion of the unilateral Change Order, the Contractor must maintain time and materials records as required by Article 26 of the General Conditions. Failure to create and maintain such records and/or timely submit them, or otherwise to comply with the express provisions of the General Conditions, shall operate as a waiver of the right of Contractor to receive any additional time and/or money for the performance of the unilateral Change Order.

End of Section

SECTION 01 29 76 - PROGRESS PAYMENT PROCEDURES

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Procedures for preparation and submittal of applications for payment.

1.2 SCHEDULE OF VALUES

A. See Section 01 32 16, Construction Progress Schedule

1.3 APPLICATIONS FOR PAYMENT

A. Each Application for Payment shall be reflect previous applications and payments.

1. The initial Application for Payment and the final Application for Payment involve additional requirements.
2. All Applications for Payment shall include only materials that have been delivered to the site. Materials that have not been delivered to the site shall not be included in any Application for Payment.

B. Payment Application Times: The District shall pay monthly to the Contractor, subject to the terms and conditions set forth in these Contract Documents.

1. All materials and work covered by partial payments made shall thereupon become the sole property of the District, but this provision shall not be construed to relieve the Contractor for the sole responsibility for the care and protection of materials and work upon which payments have been made or the restoration for any damaged work, or as a waiver of the right of the District to require the fulfillment of all of the terms of the Contract.

C. Payment Application Forms: Use AIA Documents G 702 and Schedule of Values as the form for Application for Payment.

1. The following schedules are attached at the end of this section and incorporated herein, and made a part of each Application for Payment.

a. EXHIBITA: List of Subcontractors (provided services during payment period)
b. EXHIBIT B: Subcontractor's Unconditional Waiver and Release upon Final Payment (if applicable).
c. EXHIBIT C: Contractor's Unconditional Waiver and Release upon Final Payment

D. Application Preparation: Complete every entry on the form, including notarization and execution by person authorized to sign legal documents on behalf of the Contractor. Incomplete applications will be returned without action.

1. The Contractor shall prepared a tabular report from the current Monthly Schedule Update This report shall include the following information for each activity:
   a. Activity ID Number
   b. Activity Description
   c. Prior Month’s Percent Complete
   d. Current Percent Complete

e. Total Budgeted Cost
f. Cost Completed To Date
g. Other Activity Codes As Directed By The District's Project Manager
h. The Report Shall Be Organized By Activity Codes As Directed By The District's Project Manager

2. Include amounts of Change Orders duly executed by all parties prior to the date of the application.
3. Provide applicable exhibits.
4. District's Inspector and/or Project Manager must review and accept the percentages for work completed prior to submission to Architect. The Project Manager's initials must be on each page of the payment application forms.
5. The amount of each progress payment shall be computed as follows:
   a. Add that portion of the Contract Sum allocable to the work that is completed to date determined by multiplying the percentage of completion of each portion of the work against the budgeted cost;
   b. Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for later incorporation into the work (note: only materials and equipment stored at the site are eligible to be billed and paid for);
   c. Less the total of all payments made previously by the Owner;
   d. Less the amount, if any, withheld pursuant to Part 1.5 of this Specification Section; and
   e. Less the amount withheld for retention.

E. Transmittal: Submit 4 complete, executed copies of each Application for Payment to the Architect.

1. Transmit each application for payment with a transmittal form listing attachments, and record appropriate information related to the application in a manner acceptable to the Architect.
2. A District payment schedule may be provided to the Contractor at the preconstruction meeting. Allow a minimum of ten (10) working days for the Architect and the District to process the Application for Payment.

F. Initial Application for Payment: Administrative actions and submittals (as applicable) that must precede or coincide with submittal of the first Application for Payment include the following:

1. List of subcontractors.
2. List of principal suppliers and fabricators.
5. Schedule of principal products.
6. Submittal Schedule.
7. List of Contractor's staff assignments.
8. List of Contractor's principal consultants.
9. Copies of permits.
10. Copies of authorization permits and licenses from governing authorities for performance of the work.
11. Initial progress report.
12. Report of pre-construction meeting.
13. Certificates of insurance and insurance policies.
14. Performance and payment bonds.
15. Data needed to acquire District's insurance.
16. Initial settlement survey and damage report, if required.

G. Final Payment Application: Administrative actions and submittals (as applicable) which must precede or coincide with submittal of the final payment Application for Payment

include the following:

1. Permits and approvals.
2. Warranties (guarantees) and maintenance agreements.
3. Test/adjust/balance records.
4. Maintenance instructions.
5. Meter readings.
6. Start-up performance reports.
7. Change-over information related to District's occupancy, use operation and maintenance.
8. Final cleaning.
9. Application for reduction of retainage, and consent of surety.
10. Advice on shifting insurance coverages.
11. Completion of Project close-out requirements.
12. Completion of items specified for completion after Completion.
13. Assurance that unsettled claims will be settled.
14. Assurance that work not complete and accepted will be completed without undue delay.
15. Transmittal of required Project construction records to District.
16. Proof that taxes, fees and similar obligations have been paid.
17. Removal of temporary facilities and services.
18. Removal of surplus materials, rubbish and similar elements.
19. Unconditional Waiver and Release forms Exhibits Band C.

H. Final Retention Payment: Final retention payment to the Contractor shall become due forty (40) days after recordation of a Notice of Completion by the District Board of Trustees. Notice of Completion will be submitted to the Board of Trustees at their first meeting after all work has been complete, inspected and accepted by the Architect and District, and the Contractor has submitted the following information to the District:

1. Affidavit that all payrolls, bills for materials and equipment and any other indebtedness connected with the work for which the District might in any way be responsible, have been paid or otherwise satisfied.
2. Release of all Stop Notices arising out of the Contract.

I. Acceptance of Final Payment shall constitute waiver of all claims by the Contractor except those previously made in writing and specifically identified as unresolved in a writing presented with request for final payment.

1.4 PAYMENT RETENTION

A. The District shall retain five percent (5%) of payment as it falls due to ensure performance of all work covered by this agreement.

1.5 PAYMENT WITHHELD

A. District reserves the right to withhold all, or any part, of an Application for Payment whether certified or not by the Architect, all or part of a pervious Certificate for Payment may be nullified and that amount withheld from a current Application for Payment for reasons as outlined below:

1. Defective work not remedied;
2. Third-party claims against Contractor or District arising from the acts or omissions of Contractor or subcontractors;
3. Stop notices;
4. Failure of Contractor to make timely payments due to subcontractors for material or labor;

5. A reasonable doubt that the work can be completed for the balance of the Contract Sum then unpaid;
6. Damage to the District or others for which Contractor is responsible;
7. Reasonable evidence that the work cannot be completed within the Contract Time, and the unpaid balance of the Contract Sum would not be adequate to cover District's damages for the anticipated delay;
11. Liquidated damages assessed;
12. Any other failure of Contractor to perform its obligations under the Contract Documents.

1.6 SECURITY DEPOSIT IN LIEU OF WITHHOLD

A. Pursuant to the Public Contract Code of the State of California, Section 22300, the Contractor may substitute a deposit of securities in lieu of the District withholding any monies from the total amount of the performance by the Contractor as set forth in the estimate prepared by the Architect under the provisions of Section 13 of said contract code.

1. At the request and expense of the Contractor, securities having a value equivalent to or greater than the amount to be withheld may be deposited with Bank of Sacramento as escrow agent payable either in whole or in part to the District upon demand and certification by the District that the Contractor has defaulted in the performance of his obligation under Contract and setting forth the amount of said security needed to satisfy the completion of the obligation of the Contractor.
2. Securities eligible for investment under this Section shall include those listed in Section 16430 of the Government Code, and bank or savings & loan certificates of deposit.
3. The Contractor shall be the beneficial owner of any securities substituted for monies withheld and shall receive interest thereon.
4. Any escrow agreement entered into pursuant to this provision shall be essentially on the forms set forth below.
5. See the following forms attached to the Instructions to Bidders section of these documents:
   a. Escrow Agreement for Security Deposit in lieu of retention
   b. EXHIBIT A: Certification of Deposit of Securities (if applicable)
   c. EXHIBIT B: Authorization to Release Securities Deposited by Contractor (if applicable)
   d. EXHIBIT C: Notification of Failure of Performance (if applicable)
   e. EXHIBIT D: Certification of Current Market Value of Securities in Escrow (if applicable)

PART 2 PRODUCTS

Not Used

PART 3 EXECUTION

Not Used

END OF SECTION
SEE FOLLOWING PAGES FOR FORMS

EXHIBIT A

PROJECT NAME:_____
CONTRACTOR:_____
PROJECT NUMBER:_____
APPLICATION NUMBER:_____

LIST OF SUBCONTRACTORS

Subcontractors listed below are all Subcontractors furnishing labor, services, or materials for the period referred to in the Application For Payment referenced above, of which this Exhibit is a part:

Name of Subcontractor	Subcontracted Work Activity	Date Work Activity Completed

_____
(Contractor)
By:_____
(Name)
_____
(Title)
Date:_____

EXHIBIT B

PROJECT NAME:_____
CONTRACTOR:_____
PROJECT NUMBER:_____
APPLICATION NUMBER:_____

SUBCONTRACTOR'S
UNCONDITIONAL WAIVER AND
RELEASE UPON FINAL PAYMENT

NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.

The undersigned has been paid in full for all labor, services, equipment, or material furnished to

_____(Name of Contractor or Subcontractor)
on the subject Project of the Los Rios Community College District located at

_____(Facility and Project Name)
and does hereby waive and release any claims, liens, and stop notice rights, and any rights against a labor and material bond on the subject Project, except for disputed claims for extra work in the amount of

_____Dollars ($_____).

Dated: _____ _____
(Company Name)

By: _____
(Name)

_____
(Title)

EXHIBIT C

PROJECT NAME_____
CONTRACTOR: _____
PROJECT NUMBER:_____
APPLICATION NUMBER:_____

CONTRACTOR'S
UNCONDITIONAL WAIVER AND
RELEASE UPON FINAL PAYMENT

NOTICE: THIS DOCUMENT WAIVES RIGHTS UNCONDITIONALLY AND STATES THAT YOU HAVE BEEN PAID FOR GIVING UP THOSE RIGHTS. THIS DOCUMENT IS ENFORCEABLE AGAINST YOU IF YOU SIGN IT, EVEN IF YOU HAVE NOT BEEN PAID. IF YOU HAVE NOT BEEN PAID, USE A CONDITIONAL RELEASE FORM.

The undersigned has been paid in full for all labor, services, equipment, and material furnished on the subject Project of the Los Rios Community College District located at

_____(Facility and Project Name) and does hereby waive and release any claims, liens, and stop notice rights, except for disputed claims for extra work in the amount of

_____Dollars ($_____)

Dated: _____ _____
(Company Name)

By: _____
(Name)

_____
(Title)

END OF SECTION

SECTION 013113 - PROJECT COORDINATION

PART 1 GENERAL

1.1 COORDINATION

A. Coordinate scheduling, submittals, and work of the various Sections of Specifications to assure efficient and orderly sequence of installation of interdependent construction elements, with provisions for accommodating items installed later.

B. Coordinate and implement early installation of telephone route, cabling and operation, and electrical transformer and switchboard as annotated on drawings.

C. Verify that utility requirement characteristics of operating equipment are compatible with building utilities. Coordinate work of various Sections having interdependent responsibilities for installing, connecting to, and placing in service, such equipment.

D. Coordinate space requirements and installation of mechanical and electrical work which are indicated diagrammatically on Drawings. Follow routing shown for pipes, ducts, and conduit, as closely as practicable; place runs parallel with line of building. Utilize spaces efficiently to maximize accessibility for other installations, for maintenance, and for repairs. See paragraph 1.3 below.

E. In finished areas except as otherwise indicated, conceal pipes, ducts, and wiring within the construction. Coordinate locations of fixtures and outlets with finish elements.

F. Coordinate space requirements and installation of certain artifacts which are installed by contractor and/or District with District Project Manager well in advance of actual construction activities in area of installation.

G. Coordinate completion and clean-up of work of separate Sections in preparation for completion.

H. After District occupancy of premises, coordinate access to site for correction of defective work and work not in accordance with Contract Documents, to minimize disruption of District's activities.

1.2 ELECTRICAL AND MECHANICAL COORDINATION

A. Routing and Coordination of HVAC, Mechanical, Fire Sprinkler, Plumbing and Electrical Installations:

1. The Contractor shall schedule and coordinate the work of all subcontractors having installation responsibilities within the work space, of all the new and remodeled space both with respect to the sequence of work and the allocation of space among the trades. The Contractor's construction schedule shall clearly indicate the planned sequence of work in such areas and any proposed departure from it affecting or potentially affecting coordination of the overall installation shall be brought promptly, in writing, to the attention of the District's Representative.

2. The Contractor shall prepare or have prepared detailed shop drawings in plan view, with cross-sections as necessary, indicating his/her proposed installation

plan for all HVAC, mechanical, fire sprinkler, plumbing, and electrical installations within the area of all the new and remodeled space. These drawings should depict actual elevations and linear dimensions, and all routing changes, transitions, and major offsets deemed necessary to accomplish the installation. Individual shop drawings may be prepared for each trade working within the designated space or area; however, the coordination of the consolidated installation shall remain the responsibility of the Contractor. These shop drawings shall be submitted to the District's Representative for review prior to commencement of installation, and shall be provided to each subcontractor having work in the area.

3. Should unavoidable conflicts be encountered during the preparation or review of the shop drawings, or during construction, they shall be promptly brought to the attention of the District's Representative, in writing, for resolution. Failure of Contractor to properly plan, sequence, coordinate, layout or schedule the work, does not constitute an unavoidable conflict.

4. Where the drawings are diagrammatic, showing only the general arrangement of the systems, the Contractor shall have responsibility for the fitting of materials and equipment to other parts of the equipment and structure, and to make adjustments as necessary or required to resolve space problems, preserve service room, and avoid architectural and structural elements and the work of other trades. The Contractor may be required to identify certain areas to relocate installations within the spaces depicted on the drawings; i.e., ductwork may be shifted within the space shown to accommodate other systems. Such functional relocations shall not be deemed a change to the requirements of the contract. In the event of a major re-routing of a system appears necessary, the Contractor shall prepare and submit for approval, shop drawings of the proposed rearrangement.

5. Because of the diagrammatic nature and small scale of the drawings, all necessary offsets, adjustments, and transitions required for the complete installation are not shown and are the responsibility of Contractor. The Contractor shall carefully investigate the structural and finish conditions affecting all his work and shall arrange such work accordingly, furnishing such fittings, equipment, valves, accessories, etc., as may be required to meet such conditions, at no additional cost.

1.3 UTILITIES AND IRRIGATION LINES

A. Send proper notices, make necessary arrangements, perform other services required in construction, care and maintenance of all utilities and irrigation lines and assume all responsibility concerning same. Provide necessary protection to existing utility services and irrigation lines and repair any work damaged as a result of operations of the contract.

PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION

3.1 GENERAL INSTALLATION PROVISIONS

A. Inspection of Conditions: Require the installer of each major component to inspect both the substrate and conditions under which work is to be performed. Do not proceed until unsatisfactory conditions have been corrected in an acceptable manner.

B. Manufacturer's Instructions: Comply with manufacturer's installation instructions and recommendations, to the extent that those instructions and recommendations are more explicit or stringent than requirements contained in Contract Documents.

C. Inspect materials or equipment immediately upon delivery and again prior to installation. Reject damaged and defective items.

D. Provide attachment and connection devices and methods necessary for securing work. Secure work true to line and level. Allow for expansion and building movement.

E. Visual Effects: Provide uniform joint widths in exposed work. Arrange joints in exposed work to obtain the best visual effect. Refer questionable choices to the Architect for final decision.

F. Recheck measurements and dimensions, before starting each installation.

G. Install each component during weather conditions and Project status that will ensure the best possible results. Isolate each part of the completed construction from incompatible material as necessary to prevent deterioration.

H. Coordinate temporary enclosures with required inspections and tests, to minimize the necessity of uncovering completed construction for that purpose.

I. Mounting Heights: Where mounting heights are not indicated, install individual components at standard mounting heights recognized within the industry for the particular application indicated. Refer questionable mounting height decisions to the Architect for final decision.

3.2 CLEANING AND PROTECTION

A. During handling and installation of work at the project the Contractor shall, clean and protect work in progress and adjoining materials in place. Apply protective covering where required to ensure protection from damage or deterioration.

B. Clean and perform maintenance on installed work as frequently as necessary through the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

C. Preserve and maintain trees and other vegetation on site.

D. Limiting Exposures: Contractor shall supervise performance of the work in such a manner and by such means which will ensure that none of the work, whether completed or in progress, will be subjected to harmful, dangerous, damaging or otherwise deleterious exposure during the construction period. Such exposure includes, where applicable, but not by way of limitation the following:

Static or dynamic loading.
Internal or external pressures.
High or low temperatures.
Thermal shock.
High or low humidity.
Air contamination or pollution.
Water or ice.
Solvents.
Chemicals.
Light.
Radiation.

Puncture.
Abrasion.
Heavy traffic.
Soiling.
Bacteria.
Insect and animal infestation.
Combustion.
Electrical current.
High speed operation, improper lubrication, unusual wear or other misuse.
Incompatible interface.
Destructive testing.
Misalignment.
Weathering.
Unprotected storage.
Improper shipping or handling
Theft.
Vandalism.

END OF SECTION

SECTION 013119 - PROJECT MEETINGS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements for project meetings including but not limited to:

1. Pre-Construction Conference.
2. Pre-Installation Conferences.
3. Coordination Meetings.
4. Progress Meetings.

B. Construction schedules are specified in another Division-1 Section.

1.2 PRE-CONSTRUCTION CONFERENCE

A. The District will schedule a pre-construction conference and organizational meeting at the Project site or other convenient location no later than 15 days after execution of the Contract and prior to commencement of construction activities. Conduct the meeting to review responsibilities and personnel assignments.

B. Attendees: The District representatives, Architect and their consultants, the Contractor and its superintendent, major subcontractors, manufacturers, suppliers and other concerned parties shall each be represented at the conference by persons familiar with and authorized to conclude matters relating to the work.

C. Agenda: Discuss items of significance that could affect progress including such topics as:

1. Designation of personnel representing the parties in Contract.
2. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders and Contract close-out procedures.
3. Scheduling and Contractor's Progress Schedule.
4. Scheduling activities of geotechnical Engineer, and testing lab services.
5. Use of premises by District and Contractor.
6. District's requirements.
7. Survey and building layout.
8. Security and housekeeping procedures.
9. Procedures for maintaining record documents.
10. Requirements for start-up of equipment.
11. Inspection and acceptance of equipment put into service during construction period.

1.3 PRE-INSTALLATION CONFERENCES

A. Conduct a pre-installation conference at the site before each construction activity that requires coordination with other construction. The Installer and representatives of manufacturers and fabricators involved in or affected by the installation, and its coordination or integration with other materials and installations that have preceded or will follow, shall attend the meeting. Advise the Architect and District's project manager and/or inspector of scheduled meeting dates at least 48 hours in advance of the meeting

dates.

1. Review the progress of other construction activities and preparations for the particular activity under consideration at each pre-installation conference, including requirements for:

    a. Contract Documents.
    b. Options.
    c. Related Change Orders.
    d. Purchases
    e. Deliveries.
    f. Shop Drawings, Product Data and quality control Samples.
    g. Possible conflicts.
    h. Compatibility problems.
    i. Time schedules.
    j. Weather limitations.
    k. Manufacturer's recommendations.
    l. Compatibility of materials.
    m. Acceptability of substrates.
    n. Temporary facilities.
    o. Space and access limitations.
    p. Governing regulations.
    q. Safety.
    r. Inspection and testing requirements.
    s. Required performance results.
    t. Recording requirements.
    u. Protection.

2. Record significant discussions and agreements and disagreements of each conference, along with the approved schedule. Distribute the record of the meeting to everyone concerned, promptly, including the District and Architect.

3. Do not proceed if the conference cannot be successfully concluded. Initiate whatever actions are necessary to resolve impediments to performance of work and reconvene the conference at the earliest feasible date.

1.4 COORDINATION MEETINGS

A. Conduct Project coordination meetings. These meetings shall be scheduled weekly convenient for all parties involved. Project coordination meetings maybe held at same time of meetings as regular progress meetings and special pre-installation meetings.

B. Request representation at each meeting by every party currently involved in coordination or planning for the construction activities involved. District's inspector, project manager, and Architect shall be invited, but not required to attend these meetings.

C. Record meeting results and distribute copies to everyone in attendance and to others affected by decisions or actions resulting from each meeting.

1.5 PROGRESS MEETINGS

A. Conduct progress meetings at the Project site weekly. Notify the District project manager and inspector, and Architect of scheduled meeting dates. Coordinate dates of meetings with preparation of the payment request.

B. Attendees: In addition to representatives of the District and Architect, each

subcontractor, supplier or other agency concerned with current progress or involved in planning, coordination or performance of future activities shall be represented at these meetings by persons familiar with the Project and authorized to conclude matters relating to progress.

C. Agenda: Contractor shall develop and distribute an agenda at least 24 hours in advance of meeting. The Agenda should include a review, and approve of minutes of the previous progress meeting. Review other items of significance that could affect progress, and topics for discussion as appropriate to the current status of the Project.

1. Contractor's Progress Schedule: Review progress since the last meeting. Determine where each activity is in relation to the Contractor's Progress Schedule, whether on time or ahead or behind schedule. Determine how construction behind schedule will be expedited; secure commitments from parties involved to do so. Discuss whether schedule revisions are required to ensure that current and subsequent activities will be completed within the Contract Time.

2. Review the present and future needs of each entity present, including such items as:

   a. Interface requirements.
   b. Time.
   c. Sequences.
   d. Deliveries.
   e. Off-site fabrication problems.
   f. Access.
   g. Site utilization.
   h. Temporary facilities and services.
   i. Hours of Work.
   j. Hazards and risks.
   k. Housekeeping.
   l. Quality and Work standards.
   m. Change Orders.
   n. Documentation of information for payment requests.

A. Reporting: No later than 3 days after each progress meeting date, distribute copies of minutes of the meeting to each party present and to other parties who should have been present. Include a brief summary, in narrative form, of progress since the previous meeting and report.

1. Schedule Updating: Revise the progress schedule after each progress meeting where revisions to the schedule have been made or recognized. Issue the revised schedule concurrently with the report of each meeting.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION

SECTION 013123- COMMUNICATION – PROJECT WEBSITE

1) GENERAL

a) INTRODUCTION - This Communication Specification is intended to outline the communication for the project. The project team will use Autodesk Constructware® (Constructware®) for communication and collaboration. All usage of Constructware® is to strictly adhere to the procedures defined in this specification.

b) The following abbreviations are used throughout this document in order to describe the roles and responsibilities of each party:

i) Los Rios – (Los Rios Community College District) Project Owner
ii) A/E Firm – (Architect/Engineer) The design team
iii) GC Firm – (General Contractor) The general contractor

2) SYSTEM REQUIREMENTS

a) Overview - The General Contractor is required to provide computer hardware that meets the requirements of Constructware® project management system, at both field office and home office location(s) from where this project is managed. Constructware® software and licenses to use the project database will be provided by Los Rios for the duration of the project. The hardware and browser software required to access this system via the Internet is to be provided by all parties. Licenses to Los Rios's database will permit access only to the projects the party is working on, in accordance with permission levels configured by Los Rios's Constructware® Administrator.

b) Equipment

i) Pentium based (or equivalent) workstation or laptop.
ii) A 32-bit operating system such as Windows XP, 2000, 98 or Windows NT.
iii) Microsoft's Internet Explorer 6.0 or higher browser software that supports HTML 1.1, Tables, Cookies, JavaScript, and Frames. If any of the computers do not have Internet Explorer 6.0 or higher installed, it may be downloaded for free by accessing www.microsoft.com.
iv) There is a one-time install of Java Runtime Environment (JRE) software utilized by portions of Constructware®.
v) There is a one-time install of an ActiveX upload component

c) Connectivity

i) A high-speed Internet connection (Cable, DSL, or comparable substitute) will be required at all locations from which the project will be managed. The GC Firm is responsible for supplying the lines at the project site (for themselves, IOR and CM/PM).
ii) The Constructware® site may be accessed through RIM's Blackberry™ technology. A one-time download of the Constructware® Blackberry™ offering is available in the Online Help section of Constructware®.

3) User Requirements

a) All users shall have a unique and valid e-mail address.

b) Constructware® licenses to use the database will be provided by Los Rios for all users that require access. Licenses will permit access only to projects that the company is working on in accordance with permission levels set by the Los Rios Constructware® Administrator. Requests for new user licenses shall be submitted to the Los Rios Constructware® Administrator at mckechd@losrios.edu.

c) Company and contact information will be managed in the site by the Los Rios Constructware® Administrator. All parties are responsible for ensuring that the information is accurate. Submit all company and contact information and revisions to the Los Rios Constructware® Administrator at Dan McKechnie at mckechd@losrios.edu.

i) Participating team members shall have a license and access to Constructware assigned to their company. Licenses and passwords shall also be confidential. Additional licenses per Company are at the discretion of the Los Rios Constructware® Administrator.

ii) All users shall log into Constructware® as needed (unless otherwise dictated by project requirements) while the project is ongoing to check for messages and outstanding items.

iii) All parties shall notify the Los Rios Constructware® Administrator within forty-eight (48) hours when an employee has been terminated that has access to Constructware®, in order to deactivate their user account.

iv) All parties are responsible for obtaining training in the use of Constructware®. Los Rios will supply all parties with the Constructware Policies and Procedures Guide, which will demonstrate the proper use of the system. Los Rios will also offer formal Constructware® training classes during the initial implementation phase of the system.

4) UPDATES

a) Functionality Updates: Constructware® is continually modified and improved in order to enhance the product and provide additional functionality. Autodesk has many methods of alerting clients to changes, and providing support to the end users. All users are responsible for maintaining the use of the system after these modifications have been made. The following methods should be used in order to maintain this knowledge base:

b) Constructware® Administrator Notices: Upon rolling out new functionality or changes to existing functionality, Autodesk will send out Administrator Notices informing users of the upcoming changes. These Notices contain information about what will be rolled out, the reasons for the changes or additions, and educational information about how to use the new functionality.

c) Constructware® Preview Site: Autodesk provides all users with access to a preview site. This site is intended to allow users to practice and experiment with new functionality or changes in functionality before they are rolled out to the clients' sites. The login information for the preview site can be obtained from Los Rios's Constructware® Administrator.

d) Autodesk Newsletter: The Autodesk Newsletter provides information and updates about Autodesk as a company, and also the product itself as well as other Autodesk products. Much of the information about product functionality that is available in the Newsletter is also available in the Constructware® Notices.

e) Constructware® Continuing Education Webex™ Seminars: Autodesk hosts a continuing education session that is open to all users. The session reviews topics focusing on different areas of Constructware®. During functionality rollouts, these sessions will focus on the changes or additions to the product. Information about these sessions is provided in the Constructware® Notices. In addition, a calendar of topics is available on Autodesk

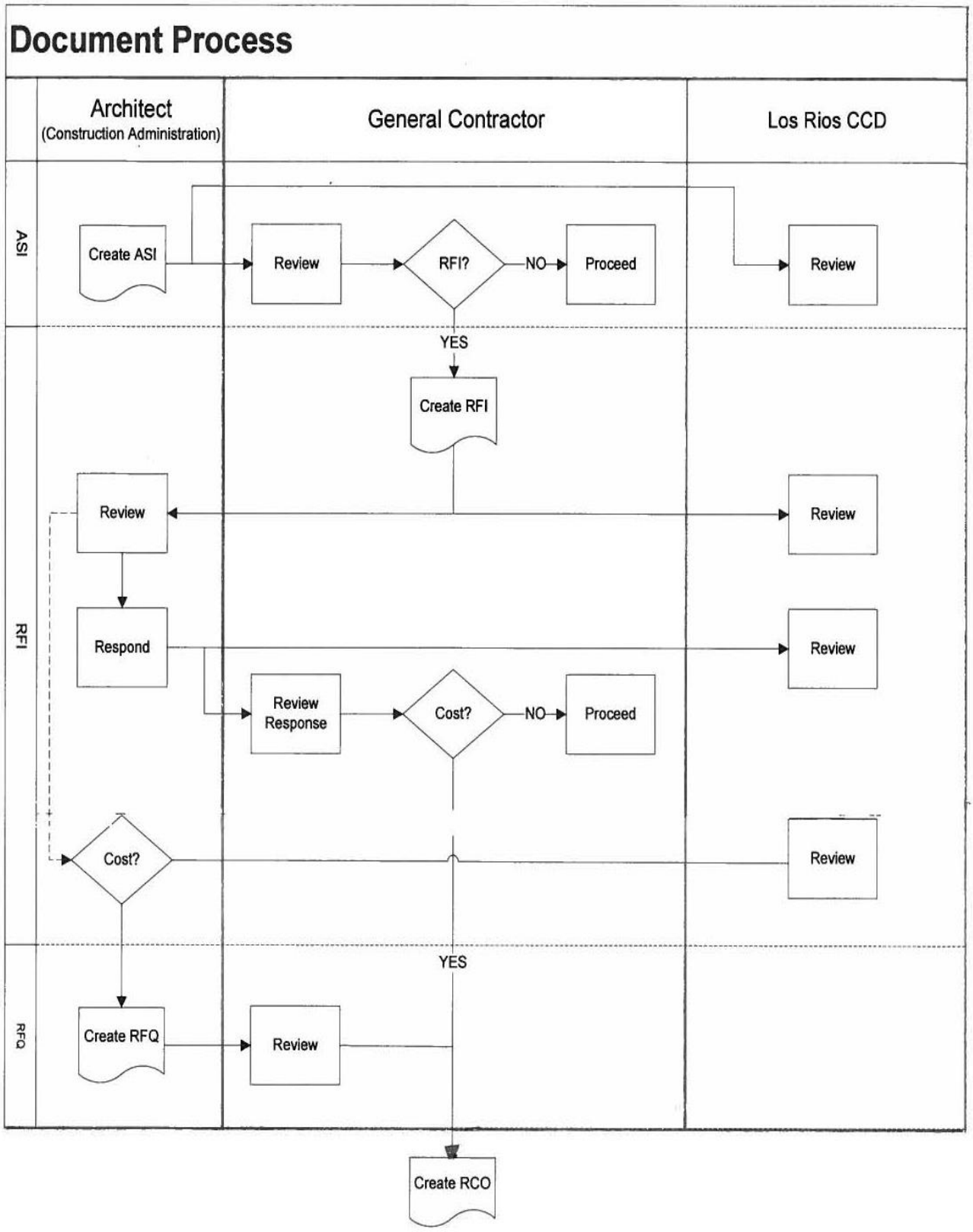
Constructware®'s website (www.autodesk.com/constructware).

f) Procedural Updates: Los Rios reserves the right to update the Communication Specification based on functionality updates and or procedural changes. Updates to the Communication Specification shall be communicated to all parties.

5) DOCUMENT MANAGEMENT

a) General: The project will utilize Constructware's® Document Management system to generate Architectural Supplemental Instructions (ASIs) and Request for Information (RFIs). RFI's are further defined in the General Conditions, Article 9. Los Rios's Constructware® Administrator will manage the permission levels for each module anda history of activity in Document Management will automatically be generated. Users shall adhere to the following procedures regarding the use of Document Management.

b) Overview: Los Rios allows the A/E Firm to enter instructions to the GC Firm through the Architectural Supplemental Instructions (ASIs) module. ASIs will be used to promote collaboration between the A/E Firm, GC Firm and Los Rios. In addition to ASIs, RFIs will used as a result of an ASI between the A/E Firm and the GC Firm. Through this collaboration, potential changes to the project cost may result, which will promote the use of Request for Quote (RFQ) or Request for Change Orders (RCOs). The roles and responsibilities as to who will initiate and respond to RFIs, RFQ's and RCOs are variable, dependent on project needs, and are based on permissions. The workflow is outlined in the ***Constructware Polices &Procedures Guide*** and shown below.



c) Architectural Supplemental Instructions (ASIs)

i) Overview: Constructware® allows A/E Firms to create Architect Supplemental Instructions (ASIs). ASIs are zero-cost instructions and clarification from the A/E Firm to the project team. Changes that will increase the cost of the project shall be submitted as Request for Quotes (RFQs), and not ASIs. ASIs shall be submitted after the 100% construction documents have been issued.

ii) See the ***Constructware Polices & Procedures Guide*** for information on using the ASIs module in Constructware®.

iii) Architectural Supplemental Instructions (ASIs): Roles and Responsibilities

(1) A/E Firm:

(a) All ASIs shall be created in Constructware® after the 100% construction documents have been issued. The ASI document shall be generated in Constructware®, however backup documentation created outside of Constructware® shall be attached if applicable. ASIs shall be entered in Constructware® immediately (or by the end of the business day) after the issue has occurred. Notifications of the ASI shall be made to the GC Firm and Los Rios shall be carbon copied (CC'd) for each ASI that is created.

(2) GC Firm:

(a) The GC Firm shall review the ASI and will proceed with the instruction if there are no questions. After review of the ASI, if the GC Firm has a question, the GC Firm shall create a RFI in Constructware® and submit to the A/E Firm for response. The GC Firm shall notify the A/E Firm and Los Rios if an ASI will result in a cost change by issuing a Request for Change Order (RCO).

(3) Los Rios:

(a) Los Rios may monitor the ASI log.

d) Request for Information (RFIs)

i) Overview: Constructware® allows for users from various parties to collaborate on RFIs. The RFI module allows for the GC Firm, A/E Firm, or Los Rios to submit RFIs to the appropriate responder(s), such as Los Rios, Contractor, or the A/E Firm, while copying the other parties. The responders that were selected can then submit a reply to the GC Firm, A/E Firm, or Los Rios.

ii) See the ***Constructware Policies & Procedures Guide*** for information on using the RFI module in Constructware®.

iii) Request for Information (RFIs): Roles and Responsibilities

(1) A/E Firms:

(a) The A/E Firm shall respond to the RFI as outlined by the contract. The A/E Firm shall use the 'Notify' function to inform the RFI initiator (contractor) and Los Rios that a response has been given.

(2) GC Firm:

(a) The GC Firm shall initiate an RFI and fill in all corresponding fields. All electronic

drawings and files (such as sketches or photos) shall be linked (if possible) to help explain the nature of the RFI. The State of the document shall be marked 'Active', and the status shall be marked 'Open'. Like all modules in Constructware®, the RFI shall be electronically 'Sent' to all responders through notification messaging in Constructware.

(b) If upon receiving the formal response to the RFI by the A/E Firm, the GC Firm or Los Rios wishes to re-open the RFI, they shall change the state of the RFI to 'Locked' and create a new version of the document by revising the original RFI.

(c) The GC Firm shall notify the A/E and Los Rios as described in Division 0 and Division 1 of Specifications if an RFI will result in a cost and/or schedule change by issuing a Request for Change Order (RCO) and notifying the A/E Firm and Los Rios.

(3) Los Rios:

(a) Los Rios may initiate an RFI using Constructware®, if needed, and shall fill in all corresponding fields. All electronic drawings and files (such as sketches or photos) shall be linked (if possible) to help explain the nature of the RFI. The state of the document shall be marked 'Active', and the status shall be marked 'Open'. Like all modules in Constructware®, the RFI shall be electronically 'Sent' to all responders through notification messaging.

(b) If upon receiving the formal response to the RFI by the Primary Responder, the GC Firm or Los Rios wishes to re-open the RFI, they shall change the state of the RFI to 'Locked' and create a new version of the document.

e) Request for Quote (RFQ)

i) Overview: In Constructware®, Requests for Quote is used as a means for the Owner team to request pricing from the Contracting team for a specific scope of work.

ii) See the Constructware Policies & Procedures Guide for information on using the Request for Quote module in Constructware®.

iii) Request for Quote (RFQ): Roles and Responsabilities

(1) A/E Firm

(a) A/E Firm shall initiate the Request for Quote (RFQ) in Constructware using the RFQ module found within the Cost Management Folder. The A/E firm shall fill in all corresponding fields and provide, as required, all electronic drawings and files necessary to completely explain the nature of the RFQ. Like all modules in Constructware the RFQ shall be electronically 'Sent' to all responders through notification messaging in Constructware

(2) GC Firm

(a) GC Firm shall respond to the RFQ with a Request for Change Order (RCO). See Section m iii 2 for additional information

(3) Los Rios

(a) Los Rios may initiate the RFQ using Constructware, if needed, and shall fill in all corresponding fields. All electronic drawings and files shall be linked, if possible, to help explain the nature of the RFQ. Like all modules in Constructware the RFQ shall be electronically 'Sent' to all responders through notification messaging in Constructware.

f) Request for Change Order (RCO)

i) Overview: In Constructware®, Requests for Change Orders (RCOs) are a means to request

a change in the contract between Los Rios and the GC Firm. RCO's are further defined within the General Conditions part 39. Typically, the RCO is created by the GC Firm and sent to the A/E firm and Los Rios for review.

ii) See the ***Constructware Policies & Procedures Guide*** for information on using the Request for Change Order module in Constructware®.

iii) Request for Change Order (RCO): Roles and Responsibilities

(1) A/E Firm

(a) A/E Firm shall review the RCO submitted by the GC Firm. If accepted, the A/E Firm shall forward the RCO to Los Rios for approval. If not approved, the A/E Firm will reject the RCO and return to the GC Firm.

(b) If the RCO is approved by Los Rios, the A/E Firm will create a Cost Item in Constructware and will continue with the change process outlined in Section 4.

(c) If the RCO is rejected by Los Rios, the A/E Firm will return the RCO back to the GC Firm for review and resubmission, if necessary.

(2) GC Firm:

(a) The GC Firm shall create RCOs for any requested cost change on the project. The RCO shall include a scope of work, estimated cost, estimate increase in schedule days, and any other relevant supporting documentation. The author of the RCO shall attach documentation to support the cost change in the linked documents field.

(b) The GC Firm should direct the RCO to the A/E representative and notify that individual through the Constructware® notification feature.

(c) The approval of the RCO does not constitute a Construction Change Directive (CCD).

(d) If the GC Firm wishes to resubmit a RCO that has been rejected by Los Rios, that RCO must be created as new.

(3) Los Rios:

(a) Los Rios may review and approve/reject all RCOs. Notification of the RCO status shall be made to the A/E/ Firm.

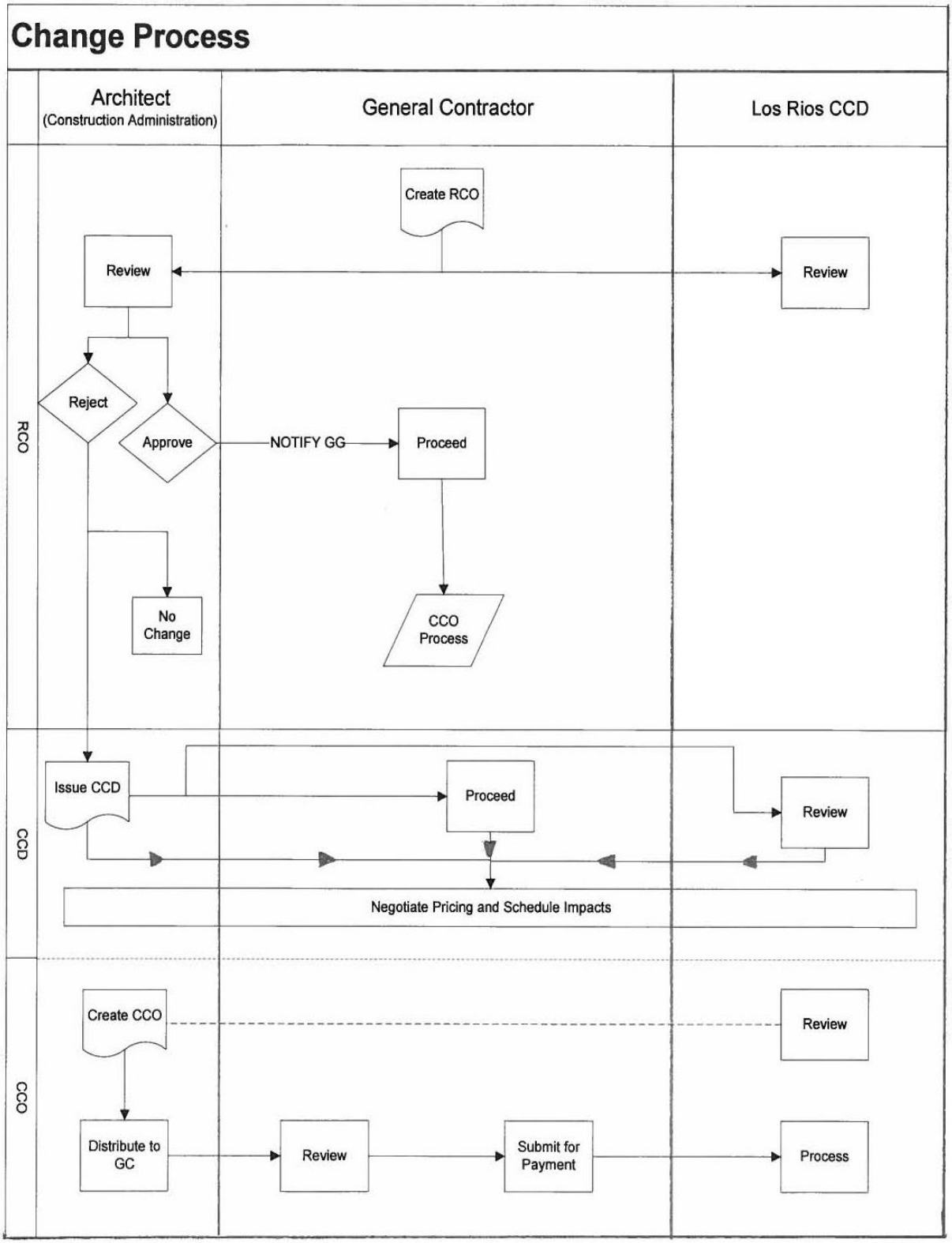
(b) Los Rios may monitor the RCO log.

6) COST MANAGEMENT

a) General: The project will utilize Constructware's® Cost Management system to generate Contract Change Orders (CCOs), Requests for Quote (RFQs), Request for Change Order (RCO) and Construction Change Directive CCDs). RFQ's, CCD's and CCO's are further defined within the General Conditions part 41.The GC will input their change order requests in the Request for Change Order (RCOs) module. A/E Firm will respond to the RCO and possibly process the RCO into a CCD and potentially into a CCO. The GC and A/E Firms will have access to see RFQs, RCOs, CCDs or CCOs. Users shall adhere to the following specifications regarding the use of Cost Management.

b) Change Order Process Overview: Los Rios allows the A/E Firm to enter pending costs into the Cost Item module. Cost Items are issues that may eventually become Change Orders. Cost Items can be rolled into a Request for Change Order (RCO) or CCD document that shall be

forwarded to Los Rios for review and approval. The roles and responsibilities as to who will initiate Cost Items and Change Orders are variable and are based on permissions. The workflow is outlined in the ***Constructware Polices &Procedures Guide*** and shown below.


Change Process
Architect
(Construction Administration)
General Contractor
Los Rios CCD
RCO
Create RCO
Review
Review
Reject
Approve
NOTIFY GG
Proceed
No
Change
CCO
Process
CCD
Issue CCD
Proceed
Review
Negotiate Pricing and Schedule Impacts
CCO
Create CCO
Review
Distribute to
GC
Review
Submit for
Payment
Process

c) Cost Item

i) Overview: In Constructware®, the Cost Item is the detail item on Cost Management documents that relates a Budget Code, a Company, and Units/Dollars. For example, the Items on a RCO are Cost Items. Because the Cost Item is the detail item on all Cost Management documents, the only manner in which a cost can be created against the Budget is with a Cost Item.

ii) See the ***Constructware Policies & Procedures Guide*** for information on using the Cost Item module in Constructware®.

iii) Cost Item: Roles and Responsibilities

(1) A/E Firm:
   (a) The A/E Firm shall review the RCO submitted by the GC Firm. Upon approval, the A/E Firm shall create the Cost Item for any requested cost and/or schedule change on the project. The Cost Item shall include a scope of work, estimated cost, estimate increase in schedule days, and any other relevant supporting documentation. The author of the Cost Item shall attach documentation to support the cost change in the linked documents field.

   (b) The A/E Firm shall list who the Cost Item is addressed to and notify that individual through the Constructware® notification feature.

   (c) The approval of a Cost Item does not constitute a Contract Change Order (CCO).

   (d) If the A/E wishes to resubmit a Cost Item that has been rejected by Los Rios, that Cost Item must be created as new with the original cost item shown as rejected.

(2) GC Firm:
   (a) Because the contractor will not be creating Cost Items they will not have access to the cost item log. All change process information specific to the GC Firm can be found in the RCO, RFQ, CCD or CCO logs

(3) Los Rios:
   (a) Los Rios may monitor the Cost Item log in Constructware®. Los Rios may respond to each Cost Item with an Approved or Rejected response. If a Cost Item will be considered, the status shall be set to Pending Approval.

(4) Processed Cost Items shall be routed through Los Rios's cost procedures to create a new construction change directive (CCD) or contract change order (CCO).

d)Construction Change Directive (CCD)

i) Overview: A Construction Change Directive (CCD) is a directive from the A/E Firm to the GC Firm to proceed with a change to the work, and states a proposed adjustment in cost and time, if appropriate. It is used in the absence of a complete agreement in terms of scope, cost, and time between the contracting parties.The GC Firm must proceed with the change immediately, and inform the other parties as to whether it agrees or disagrees with the proposed terms of change. If the GC Firm disagrees with the proposed change, further negotiation may ensue. In Constructware the CCD may be used to produce CCOs to further the change management and negotiation processes.

ii) See the ***Constructware Policies & Procedures Guide*** for information on using the Construction Change Directive module in Constructware®.

iii) Roles and Responsibilities

(1) A/E Firm:
(a) The A/E Firm shall process the approved Cost Item into a Construction Change Directive (CCD) and submit to Los Rios for review. Upon approval, the A/E Firm shall issue the CCD to the GC Firm for review.

(b) If the CCD is approved by the GC Firm, the A/E Firm will process the CCD into a Contract Change Order (CCO).

(c) The A/E Firm shall consolidate several CCDs as appropriate into one CCO.

(2) GC Firm:
(a) The GC Firm shall review the cost and time elements and approve the CCD.

(b) Upon approval, the GC Firm shall notify the A/E Firm and proceed with the work outlined in the CCD.

(3) Los Rios:
(a) Los Rios may review and approve the CCD.

(b) The CCD shall be sent to the A/E Firm once it has been approved. The Cost Item shall be updated based on the status of the CCD.

e)Contract Change Order (CCO):

i) Overview: Contract Change Orders (CCOs) are contract amendments from the Los Rios to the GC Firm. Constructware permits A/E Firm to log, track, and print CCOs as well as to generate them automatically by processing them from Construction Change Directives or Cost Items. In Constructware, CCOs contain Cost Items and summary information about the contract amendment. Contract Change Orders can only be generated for contractors with valid contracts entered in Constructware.

ii) See the ***Constructware Policies & Procedures Guide*** for information on using the Contract Change Order module in Constructware®.

iii) Contract Change Order (CCO): Roles and Responsibilities

(1) A/E Firm:
(a) The A/E Firm shall submit the CCO to Los Rios for review.

(b) Upon approval, the A/E Firm shall distribute the approved CCO to the GC Firm.

(c) As appropriate, the A/E Firm shall combine CCDs into one CCO.

(2) GC Firm:
(a) The GC Firm shall review the approved CCO and submit for payment or partial payment after the CCO has been approved and work has been completed.

(3) Los Rios:
(a) Los Rios may review and approval all CCOs.

(b) The CCO shall be sent to the A/E Firm once it has been approved for distribution.

END OF SECTION

SECTION 013216 - CONTRACT SCHEDULE

PART 1 – GENERAL

1.01 DESCRIPTION

A. The Contractor shall develop a network plan and schedule for the project demonstrating complete fulfillment of all contract requirements and shall keep the network plan up to date in accordance with the requirements of this section. The Contractor shall employ the Critical Path Method (CPM) in developing the plan and schedule, and in the planning, coordinating, performing and reporting the work under this contract, including all activities of Subcontractors, equipment vendors, suppliers, and any the Owner functions that impact the work. It is explicitly understood that the schedule shall be employed by, and is vital to, the Owner's Representative and the Owner's Project Manager in monitoring the progress of the Work and administering this Contract. The Owner may utilize a scheduling consultant to assist in the review of the Contractor's schedules.

B. The CPM schedule shall be prepared using Primavera Project Planner version 3.1 or Primavera SureTrak version 4.0. Equivalency of a proposed substitute CPM program shall be determined by the Owner's Project Manager at his/her sole discretion upon the application from the Contractor. Regardless of which scheduling software is used it must have the capability of a definitive "Data Date" that will illustrate impacts to individual activities and the overall project where an activity's progress is not proceeding as originally planned or it has not started as planned. If a substitute CPM program is used in the development of the schedule, it is the responsibility of the Contractor to assure that it is readable in Primavera version 3.1.

C. The principles and definition of CPM and the terms used herein shall be as follows:

CPM network is a graphic description of the construction plan, showing the sequential steps needed to reach the completion of the Work. It shall depict events and tasks, and their interrelationships, and shall recognize the progress that must be made in one task before subsequent tasks can begin. The CPM network shall be comprehensive and shall include all interdependencies and interactions required to perform the Work of the Project. The only activity in the schedule that will not have a predecessor is the Project Start or Notice to Proceed Milestone. The only activity in the schedule that will not have a successor is the Project Completion Milestone. All other activities in the schedule shall have predecessor and successor logic ties.

1.02 SUBMITTALS

A. Within ten (10) calendar days following receipt of Notice of Award and prior to the full execution of the Agreement, and prior to engaging a scheduling consultant or commencing performance of the work specified in this Section with its own forces, the Contractor shall submit to the Owner's Project Manager:

1. Contractor's scheduler(s) Information;
   a. If the schedules are to be prepared by any outside consultant, the name and the address of the proposed scheduling consultant;
   b. Information sufficient to show that the Contractor's own organization or the Contractor's proposed scheduling consultant has scheduling support staff and computer facilities meeting the requirements herein.
   c. A list of prior projects, with the Owner's telephone contact numbers, where services similar to those required for this Contract were performed.
   d. The acceptability of the proposed scheduler will be at the sole discretion of the Owner's Project Manager.
   e. The scheduling software and version to be used.

B. The "Preliminary 90-Day Contract Schedule" shall be submitted no later than seven (7) days after the Notice to Proceed.

C. Submit the "(Proposed) Contract Schedule" within 30 calendar days after the Owner's issuance of the Notice to Proceed to the Contractor. Upon acceptance, the (Proposed) Contract Schedule shall become the "Baseline Schedule".

D. Submit monthly updated Contract Schedules (hereinafter referred to as the Monthly Schedule Updates) along with each monthly pay application in accordance with Specification Section 01 2976 – Progress Payment Procedures.

E. All other required reports referenced herein, typically three (3) each per occurrence. Submit three (3) color plots on "E" size sheets (approximately 34" x 44") of each required schedule and three (3) copies of all required reports. The Contractor shall also submit a copy of the computer data disks used to produce hard copy submittals. The computer data disks will contain the schedule computer files in Primavera version 3.1 compatible format. A PDF file format is not acceptable.

Schedule of Submittal Items Due:

Submittal Item	Due Date No Later Than
Contractor Scheduler Information	10 calendar days from Notice to Award
Preliminary 90-Day Contract Schedule	7 calendar days from Notice of Proceed
(Proposed) Contract Schedule	30 calendar days from Notice to Proceed
Monthly Schedule Updates	5 calendar days before the monthly pay application

1.03 APPROVAL

A. The Owner's Project Manager shall have the right to accept or reject the Contractor's proposed scheduler. The Contractor shall re-propose qualified alternates at no additional cost to the Owner within three (3) calendar days thereafter and until the Owner's Project Manager's approval is received.

B. Approval of the Contractor's Preliminary 90-Day Contract Schedule by the Owner's Project Manager will be a condition precedent to the making of any progress payment.

C. The required schedules and reports shall be prepared and submitted for review and approval in accordance with the General Conditions and this Section.

D. The Monthly Schedule Updates and reports shall be an integral part and basic element of the estimate upon which progress payments will be made. Submittal, review and approval by the Owner's Project Manager of these items shall be a condition precedent to the making of progress payments. If in the judgment of the Owner's Project Manager, the Contractor fails or refuses to provide a complete Monthly Schedule Updates or reports, as specified, the Contractor will be deemed to have not provided the required estimate upon which progress payments may be made, and shall not be entitled to such progress payments unless or until it has furnished the aforesaid schedules.

D. In the event the Contractor submits a workable, contractually compliant (Proposed) Contract Schedule which indicates project completion at a date earlier than the contract completion date, the acceptance of such a schedule will not change the contract time. In such an event, a schedule activity

entitled “project float”, of a duration equal to the difference between the proposed early completion date and the contract completion date, will be added to the schedule. All project float is a project resource for the Contractor and the Owner, and is not for the exclusive use of either party.

1.04 CONSTRUCTION ANALYSIS

A. The Contractor shall use Primavera Project Planner version 3.1 or Primavera SureTrak version 4.0. The Contractor shall coordinate with the Owner’s Project Manager to produce the following minimum information with the (Proposed) Contract Schedule:

1. Activity identification;
2. Activity description;
3. Status date (data date);
4. Activity percentage complete;
5. Activity original and remaining durations;
6. Early start/finish and late start/finish;
7. Total float;
8. The predecessor and successor activities for each individual activity;
9. Designation of the planned work day/work week for each activity (calendar identification);
10. A near-critical item list of activities with ten (10) working days or less total float;
11. Scheduled and actual progress payment for each activity.

B. Should the Contractor develop the schedule in any version of a Primavera product newer than Primavera Project Planner version 3.1 or SureTrak version 4.0 the schedule will be developed utilizing the “Project Level” coding not the “Enterprise” or “Global” Level. It is the Contractor’s sole responsibility to insure that all coding included in its schedules is transferred and readable by the Owner in the electronic format in Primavera Project Planner version 3.1.

1.05 QUALITY ASSURANCE

A. To assist in the preparation and for the production of the required submittal of the Schedules and Reports outlined in this Section, the Contractor shall engage, at his own expense, a CPM consultant having the following qualifications, except that the Contractor may perform these services with its own organization if the Contractor itself has such qualifications:

1. Have at least one employee regularly engaged and skilled in the application of computerized CPM scheduling methods on similar or larger size construction projects.
2. Possess or have access to computer programs for preparation and production of schedules and reports.
3. Have computer facilities or access on short notice to computer facilities with the capability of delivering a CPM plot and readout within 48-hours, and;
4. Scheduling Software
   a. The Contractor shall utilize a Windows-based computer-software program compatible with Primavera Project Planner version 3.1 or Primavera SureTrak version 4.0.
   b. If the Contractor requests and receives authorization from the Owner to utilize scheduling software other than Primavera Project Planner version 3.1 or Primavera SureTrak version 4.0;
      i. The Contractor will still be obligated to provide schedules, reports and all other data required by this Section to the Owner in Primavera Project Planner version 3.1.
      ii. Any conversions of schedule files that may be required to accommodate the Primavera Project Planner version 3.1 will be performed by the Contractor at no cost to the Owner.
5. In the event that there is a difference between the schedule as developed in the software

utilized by the Contractor and the schedule as converted to and used by Primavera Project Planner version 3.1, the schedule that is used in Primavera Project Planner version 3.1 shall have primacy.

1.06 CONTRACT SUBMITTALS AND DETAILS

A. Preliminary 90-Day Contract Schedule:

1. Submission:

a. The Contractor shall submit a Preliminary 90-Day Contract Schedule to the Owner's Project Manager as indicated in Paragraph 1.02 Submittals. The Preliminary 90-Day Contract Schedule will include all activities that are required or anticipated to be completed within the first 90-calendar days of the project. The Preliminary 90-Day Contract Schedule shall also contain a summary of the remaining activities formatting the remaining work areas, overall contract duration, milestones, etc. for the remainder of the project.

b. Any revisions deemed necessary by the Owner's Project Manager as a result of its review (allow 14 calendar days for this review) shall be incorporated into the Contractor's Preliminary 90-Day Contract Schedule and re-submitted to the Owner's Project Manager for review within fourteen (14) calendar days after the Contractor's receipt of the Owner's Project Manager Preliminary 90-Day Contract Schedule comments.

2. Form:

a. Prepare the Preliminary 90-Day Contract Schedule as a time-scaled CPM barchart showing continuous flow from left to right. Durations and specific calendar dates shall be clearly shown for the start and finish of each work activity in sufficient detail to represent a practical plan to complete the Work within the Contract Time.

3. The Preliminary 90-Day Contract Schedule shall include but not be limited to:

a. A legend of scheduled activities;
b. Scheduled work activities that clearly indicate the scope of work to be completed;
c. Major milestones, which are critical to the completion of the work, including but not limited to the following: NTP date; mobilization; coordination review and detailing activities; the Contractor quality control review activities; and contract completion. Major work activity categories that are to be included in the (Proposed) Contract Schedule;
d. Submittals Section, containing activities for submittals, approvals, fabrication and delivery of materials or other components that affect any work activity that has total float of 60 calendar days or less;
e. OFCI/OFOI items;
f. Start up, Testing, Inspections and Commissioning;
g. Punch list formulation;
h. The Contractor closeout documentation and training;
i. The Contractor punch list corrective work;
j. Demobilization and project completion;
k. A plot of the Preliminary 90-Day Contract Schedule with a clearly highlighted critical path;
l. Calendar designations identifying all holidays and non-working days;
m. The Preliminary 90-Day Contract Schedule shall be cost loaded. Once the (Proposed) Contract Schedule is approved and becomes the Baseline Schedule , the costs reflected in the Baseline schedule will be the official Schedule of Values for the project and utilized for each payment application;
n. The Preliminary 90-Day Contract Schedule shall contain an activity code structure sufficient to allow sorting/grouping by the following categories:

a. Responsibility or Subcontractor;
b. Area;
c. Location,
d. CSI division;
e. A code entitled “Update” that will identify the schedule submission when specific activities were added to the network (new activities, Change Orders, RFI’s, etc.);

B. (Proposed) Contract Schedule:

1. The Contractor shall submit to the Owner’s Project Manager a (Proposed) Contract Schedule as indicated in Paragraph 1.02 Submittals, and in sufficient time to allow for review and approval. The (Proposed) Contract Schedule shall be a computerized detailed task level CPM diagram in precedence diagramming method (PDM) format. A clear delineation of construction activities shall be shown on the (Proposed) Contract Schedule. This schedule shall be cost loaded.

a. The Contractor and requested Subcontractors shall participate in a review of the proposed (Proposed) Contract Schedule by the Owner’s Project Manager when requested to do so. Any revisions deemed necessary by the Owner’s Project Manager as a result of this joint review shall be re-submitted within ten (10) days after said meeting.

2. All activities in the Initial Contract Schedule shall have sufficient code structure to enable a sort by activity code, or "rollup" of the activities in the form of a Summary Schedule. The code structure will allow sufficient sorting capabilities to group by responsibility (by Subcontractor), location (building, floor, etc.), area, type (submittal, approval, change, update, etc), milestones and CSI division at a minimum.

3. The work activities comprising the (Proposed) Contract Schedule shall be of sufficient detail to ensure adequate planning and execution of the Work and such that the schedules provide an appropriate basis for monitoring and evaluating the progress of the Work. A work activity is defined as a singular task that requires time and resources (manpower, equipment, and/or material) to complete in a continuous operation (excepting submittal activities including review and approval activities; and material fabrication and procurement activities). No activity shall be less than one (1) or more than twenty (20) working days in duration for any on-site operation. All holidays and non-working days shall be identified by way of calendar designations.

4. The (Proposed) Contract Schedule shall contain activities for submittals, approvals, fabrication and delivery of materials or other components that affect any work activity that has total float of 60 calendar days or less.

5. The (Proposed) Contract Schedule shall be a cost-loaded CPM schedule. Mobilization, bond and insurance costs may be shown separately. Other general condition costs, overhead, profit, etc., shall be prorated throughout all the activities. The cost-loaded activities of the (Proposed) Contract Schedule shall be basis for establishing the distribution of costs. Costs relating to each activity shall be distributed evenly over the duration of the activity. Contractor agrees that the cost given by Contractor to each activity is the reasonable value thereof and may be used by the District as the basis to adjust the contract sum on account of additional work or work deleted from the contract.

6. Failure by the Contractor to include any element of the work required for the performance of this Contract and completion of the Project, including all submittals, shall not excuse The Contractor from completing all work required within the time for completion, notwithstanding the Owner’s Project Manager's approval of the (Proposed) Contract Schedule.

7. No more than 25% of the total number of activities shown on the schedule shall be critical or near critical. Near critical is defined as float equal to or less than ten (10) working days.

8. The schedule shall indicate the sequence and interdependency of all work activities. All activities should be linked by finish-to-start (FS) relationships. Other types of relationships shall be prohibited (including, but not limited to start-to-start, finish-to-finish, and start-to-finish relationships and relationship lags) unless specific permission is granted by the Owner's Project Manager. Any logic usage other than finish to start must be identified in a separate report to be submitted with the (Proposed) Contract Schedule to the Owner's Project Manager for approval. Constraints in the schedule shall be limited to those called for in the contract. Any additional constraints on activities shall be kept to a minimum and must be identified in a separate report to be submitted with the (Proposed) Contract Schedule to the Owner's Project Manager for approval. Finish-to-start relationships are permitted to have negative lags, but in no case will positive lags be permitted. Milestones shall also be limited to those specifically called for in the contract. Unless otherwise called for in the contract, there shall be only two milestones, one for the Notice to Proceed and one for Project Completion.

9. Critical Work activities are defined as Work activities which, if delayed or extended, will delay the scheduled completion date of the Work. All other Work activities are defined as non-critical Work activities and are considered to have float.

10. Float is defined as the time that a non-critical Work activity can be delayed or extended without delaying the scheduled completion of milestones specified in this Section or the scheduled completion date of the Work, or both. Float time is not for the exclusive use or benefit of either the Owner or the Contractor. Neither the Contractor nor the Owner shall have an exclusive right to the use of float.

11. Delays of any non-critical Work shall not be the basis for an extension of Contract Time until the delays consume the float associated with that non-critical Work activity and cause the Work activity to become critical.

12. The Contractor shall not sequester float through strategies including extending activity durations to consume available float, use of preferential logic; use float suppression techniques like Zero Total Float constraints; use of special lead/lag logic restraints or imposed dates. Use of float time disclosed or implied by the use of alternate float suppression techniques shall be shared to the benefit of both the Owner and the Contractor.

13. Include a critical path activity titled "Inclement Weather Days" on the (Proposed) Contract Schedule. This activity shall have an initial duration of one and one-half (1.5) working days for each month of contract time. Inclement Weather Days shall be the last activity in the schedule prior to the milestone activity entitled "Contract Completion". All predecessor activities must pass through the Inclement Weather Days activity. The Contractor shall apply to the Owner's Project Manager to use an Inclement Weather Day when a critical path activity has been delayed because of inclement weather. An Inclement Weather Delay day is defined as when the weather or effect thereof prevents the Contractor from working on the current critical path with at least 75% of its normal work force for more than 50% of the normal workday. The Contractor must apply for use of Inclement Weather Days in the same month as the inclement weather delay. The Owner's Project Manager shall determine if the Contractor's request for use of Inclement Weather Days is approved or denied. The Inclement Weather Days activity shall not be statused with an actual start or finish date, or percentage of completion. Rather, it is a graphical accounting tool where the original duration shall be reduced by the agreed to weather impact. Inclement Weather Delays to non-critical activities will not be the basis for adjustment under this Paragraph. If, at Completion, there are inclement weather days remaining, the Completion date shall not be adjusted. If, at completion, additional inclement weather days are required, the Owner shall adjust the Completion date accordingly. Any time extension granted the Contractor due to inclement weather delays shall be in the form of excusable non-compensable days

14. Once approved by the Owner's Project Manager, the Contractor's (Proposed) Contract Schedule shall be known as the Baseline Schedule and shall be used by the Contractor for executing the Work of the Contract, including planning, organizing and directing the Work, and reporting its progress until further revised. No unilateral changes shall be made to the Baseline Schedule without the prior approval and consent of the Owner, excepting only the reporting of Actual Start, Actual Finish, and Activity Progress.

15. The Contractor shall provide a contract compliant schedule suitable for approval as the Baseline Schedule as indicated in Paragraph 1.02 Submittals.

16. A combined three (3) week Look-Ahead Schedule with a one (1) week As-Built Schedule for the previous week (a total of four (4) weeks depicted) shall be submitted by the Contractor to the Owner's Project Manager for review and approval at each progress meeting. The Contractor shall status the schedule on a weekly basis, by using data that is actual and current as of the "status" date. This Look-Ahead Schedule shall be derived from this weekly statusing. The cumulative status of the Look-Ahead schedules shall be the basis for the Monthly Schedule Updates. In no event shall the Contractor utilize a separate schedule for generation and maintenance of the Look-Ahead schedules. Depending on the stage of the Project, the Look-Ahead Schedule will be based upon the Preliminary 90-Day Contract Schedule, (Proposed) Contract Schedule, Baseline Schedule or Monthly Schedule Update.

C. Baseline Schedule Updating and Progress Payments:

1. The Baseline Schedule shall be updated on a monthly basis for the purpose of recording and monitoring the progress of the work ("Monthly Schedule Updates"), or at lesser intervals if deemed necessary by the Owner's Project Manager without additional cost to the Owner for reasons such as work activities being thirty (30) calendar days or more behind schedule. The Contractor shall meet with the Owner's Project Manager each month to review actual progress made to date, activities started and completed to date, and the percentage of work completed to date on each activity started but not completed. Upon completion of the joint review, the Contractor shall prepare the Monthly Schedule Update and submit it to the Owner's Project Manager. Each Monthly Schedule Update shall be saved with an individual file name that separately preserves the data for each Monthly Schedule Update.

2. The Monthly Schedule Updates shall incorporate all changes mutually agreed upon by the Contractor and the Owner during the preceding periodic reviews and all changes resulting from approved Change Orders and Field Orders. Activities for approved change orders shall be cost loaded. The Contractor shall not make unauthorized or unilateral changes to the activities or logic.

3. Prior to submission of the monthly payment application, the Contractor shall submit to the Owner's Project Manager a report generated from the previously approved Monthly Schedule Update that reflects the percent of completion by activity. The Contractor and the Owner's Project Manager shall jointly walk the project to verify the percentage of completion of each activity. Once the percent of completion of each activity is agreed upon, the Contractor shall incorporate this data into the schedule update and these percentages shall be the basis for development of that month's payment application. The Contractor shall not separate the percentage of completion from the remaining durations in the calculation of the schedule.

4. The schedule calculation setting for the monthly updates shall be "Retained Logic". The "Progress Override" setting may only be utilized to identify the differential in the calculated finish date due to "Out of Sequence Progress". Should the differential in the project completion exceed 10 days utilizing the Retained Logic setting versus the Progress Override setting, the successor logic of the Out of Sequence activities shall be revised to eliminate the differential. The Retained Logic setting is the setting that will be used for the analysis of any time extension requests or delay claims

5. Approval of the Monthly Schedule Update will be a condition precedent to the making of any progress payments for work performed.

6. It is explicitly understood that the Monthly Schedule Update are vital to the Owner in managing, monitoring, and administrating the Project. Delays in submitting the schedule updates will have a detrimental effect on the Owner's ability to perform its responsibilities under the contract.

D. Reports:

1. The (Proposed) Contract Schedule submittal shall include the following:

A. Detailed Bar Chart ("E" size plot);

B. Project calendar indicating all non-working periods

C. Activity codes dictionary which shall identify all code values and code titles used.

D. Primavera version 3.1 schedule data for the (Proposed) Contract Schedule on CD or e-mailed in compressed format to the Owner's Project Manager.

E. After approval of the (Proposed) Contract Schedule as the Baseline Schedule, Primavera version 3.1 schedule data for the Baseline Schedule shall be submitted on CD or e-mailed in compressed format to the Owner's Project Manager.

2. Monthly Schedule Updates shall include the following

A. Detailed Bar Chart ("E" size plot);

B. Proposed Revisions Report

C. Primavera version 3.1 schedule data for the Monthly Schedule Update on CD or e-mailed in compressed format to the Owner's Project Manager.

D. Narrative Report

1. The Monthly Narrative Report shall contain the following information for each Monthly Schedule Update:
   a. Description of overall project status
   b. Description of problem areas (referenced to pending change orders as appropriate)
   c. Current and anticipated delays not resolved by approved change order, including:
      1. Cause of the delay
      2. Corrective action and schedule adjustments to correct the delay
      3. Known or potential impact of the delay on other activities and milestones
   d. Changes in the construction sequence
   e. Pending items and status thereof, including but not limited to:
      1. Pending Change Orders
      2. Time Extension Requests
      3. Other Issues relating to Contract Time
   f. Contract Completion Date status:
      1. If ahead of schedule, the number of calendar days ahead
      2. If behind schedule, the number of calendar days behind
   g. Other project or scheduling concerns

3. Submittal of the monthly reports and schedule updates by the Contractor are required regardless of the approval status of the Baseline Schedule or any Monthly Schedule Update.

4. The Contractor shall not make unilateral revisions to the Monthly Schedule Updates. Should the Contractor desire to revise the schedule logic or durations, the Contractor shall first submit the Monthly Update based upon the previous Monthly Schedule Update with just actual start dates, actual finish dates, and/or percentages of completion. Any additional changes other than actual status data will not be allowed.

Following this updating and submittal task the Contractor can then submit a copy of this update with its proposed changes. This proposed revised update will clearly be identified as a proposed revision in the Title, Number/Version and File Name. This proposed revision schedule shall be accompanied by a narrative fully explaining the need for each revision.

1.07 RESPONSIBILITY FOR COMPLETION

A. The Contractor agrees that at the sole judgment of the Owner's Project Manager, whenever it becomes apparent from the current Monthly Schedule Update that the currently adjusted contract completion date will not be met, it will take some or all of the following actions, as approved by the Owner's Project Manager, at no additional cost to the Owner:

1. Increase construction manpower in such quantities and crafts as will substantially eliminate, in the judgment of the Owner's Project Manager, the backlog of work.
2. Increase the number of working hours per shift, shifts per working day, working days per week, or the amount of construction equipment, or any combination of the foregoing, sufficiently to substantially eliminate, in the judgment of the Owner's Project Manager, the backlog of work. This paragraph shall not be construed to permit the Contractor to violate the work hour restrictions specified in the Contract Document.
3. Reschedule activities to achieve maximum practical concurrence of accomplishment of activities.
4. The Owner's Project Manager may require the Contractor to prepare a Recovery Schedule that depicts how the above items 1 – 3 will cause the construction to be completed by the currently adjusted contract completion date. The Owner's Representative may require this Recovery schedule to be:
    a. Based upon the currently approved Monthly Schedule Update
    b. Man loaded;
    c. Resource loaded;
    d. That reports and schedule data be submitted as required for Monthly Schedule Updates

1.08 ADJUSTMENT OF TIMES FOR COMPLETION

A. In addition to provisions of the General Conditions, the time for completion of the work will be adjusted in accordance with these procedures.

B. Any request for an adjustment of the Contract Time for completion submitted by the Contractor for changes or alleged delays shall be accompanied by a complete Time Impact Analysis, (TIA), which shall be submitted for review within fifteen (15) days after the initial request for time by the Contractor. Time extensions will not be granted unless substantiated by analysis of the approved Monthly Schedule Update that preceded the alleged delay and then not until the project float becomes zero. If the Contractor fails to submit a TIA within the aforementioned time period, then the Contractor shall be deemed to have agreed that there is no time impact and that the Contractor has irrevocably waived its rights to any additional contract time.

C. Each Time Impact Analysis shall provide information justifying the request and stating the extent of the adjustment requested for each specific change or alleged delay. Each Time Impact Analysis shall be in form and content acceptable to the Owner's Project Manager, and shall include, but not be limited to, the following:

1. A fragmentary CPM type network (Fragnet) illustrating how the Contractor proposed to incorporate the change or alleged delay into the current Monthly Schedule Update; and
2. Identify the activities and logic in the current Monthly Schedule Update that is proposed to be amended due to the change or alleged delay, all activities that are/will be affected by the proposed change or alleged delay, together with engineering estimates and other appropriate data justifying

the proposal.

D. The Time Impact Analysis shall be determined on the basis of the date or dates when the change or changes were issued, or the date or dates when the alleged delay or delays began. The status of the construction project and Time Impact Analysis shall include event time computations for all affected activities including but not limited to work around sequencing, or recovery options to maintain the Current Contract Completion Date.

E. Time Impact Analyses provided in order to demonstrate the time impact upon the overall project and the time for completion shall be accomplished at no additional cost to the Owner.

F. If the Owner's Project Manager finds, after review of the Time Impact Analysis, that the Contractor is entitled to any extension of time for completion, the time for completion will be adjusted by Change Order issued by the Owner's Project Representative, and the Contractor shall then revise the current Monthly Schedule Update accordingly.

1.09 FINAL AS-BUILT SCHEDULE

A. As a condition precedent to final approval of the Project, submit a final As-Built Construction Schedule and all final reports (those reports and plots required by paragraph 1.06 D above), including Primavera version 3.1 schedule data for the As-Built Construction Schedule on CD, which accurately reflect the manner in which the Project was constructed and includes actual start and completion dates for all work activities on the Baseline Schedule.

PART 2 PRODUCTS

Not Used.

PART 3 EXECUTION

Not Used.

END OF SECTION

SECTION 013300 - SUBMITTAL PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements for submittals required for performance of the work, including;

1. Shop Drawings.
2. Product Data.
3. Samples.

B. Administrative Submittals: Refer to other Division-1 Sections and other Contract Documents for requirements for administrative submittals.
1. Contractor's progress schedule
2. Submittal schedule

1.2 SUBMITTAL PROCEDURES

A. Coordination: Coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal no less than forty-five (45) days in advance of performance of related construction activities and in all cases, sufficiently in advance to avoid delay.

1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that require sequential activity.
2. Coordinate transmittal of different types of submittals for related elements of the work so processing will not be delayed by the need to review submittals concurrently for coordination.
   a. The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
3. Processing: Allow sufficient review time so that installation will not be delayed as a result of the time required to process submittals, including time for resubmittals.
   a. Allow a minimum of thirty (30) days for initial review. Allow additional time if processing may be delayed to permit coordination with subsequent submittals. The Architect may advise the Contractor when a submittal being processed must be delayed for coordination.
   b. If an intermediate submittal is necessary, process the same as the initial submittal.
   c. Allow a minimum of thirty (30) days for reprocessing each submittal.
   d. No extension of Contract Time will be authorized because of failure to transmit submittals to the Architect sufficiently in advance of the work to permit processing, or submittals not prepared properly.
   e. Work performed by the Contractor without the approval of a submittal is done at the Contractors risk.

B. Submittal Preparation: Prepare each submittal with the following information:

1. Submittal Cover Sheet: Place a Submittal Cover Sheet on each submittal for identification and transmittal purposes. The cover sheet will include the following information:
   a. Project Title.
   b. Submittal number: Sequentially number the submittals. Resubmittals will have the same original number with an alphabetic suffix.

c. Contractor: Provide company name, mailing address, telephone number and name of the contact person responsible for work on this project.
d. Sub-contractor/Supplier: Provide company name, mailing address, telephone number and name of the contact person responsible for work on this project.
e. Submittal Description:
1. General: Describe contents of submittal completely; identify material or product name, or model number, and name of manufacturer. State any deviations from Contract Document requirements including minor variations and limitations.
2. Submittal Index: Provide index of all items included in submittal; properly identify with drawing numbers, etc.
f. Specification Section Number: Identify submitted work with Section number and name shown in the Contract Documents. Provide separate submittals for each specification Section, as required.
g. Date: Submission date and revision dates.
h. Contractor's stamp: Apply Contractor's stamp, signed certifying that review, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and Contract Documents.
i. Provide space for the Architect's review stamp.

2. Shop Drawings: In addition to the Submittal Cover Sheet, provide a space approximately 4" x 5" on the label or beside the title block on Shop Drawings to record the Contractor's review and approval markings and the action taken.

C. Submittal Transmittal: Package each submittal appropriately for transmittal and handling. Transmit each submittal from Contractor to the Architect's business address using the Submittal Cover Sheet as a transmittal form. Submittals received from sources other than the Contractor will be returned without action, with no extensions of Contract Time. Submittals received without the Contractor's stamp completed will be returned without action with no extensions of contract time.

D. Number of Copies Required:

1. Progress Schedule: See Section 01 32 16 Construction Progress Schedule.
2. Schedule of Values: See Section 01 32 16, Construction Progress Schedule.
3. Certifications: One (1) copy.
4. Shop Drawings: One (1) reproducible transparency and two (2) prints of each original drawing.
5. Product Data/Material Lists: Seven (7) copies.
6. Samples:
a. General: As identified in individual specification Section.
b. Color/Pattern Selection: One set of manufacturer's complete range for initial selection; additional samples as requested of selected color/pattern for final color schedule.
7. Substitutions: Seven (7) copies.
8. Maintenance/Operating Manuals: Three (3) copies.
9. Record Drawings: Reproducible transparencies.
10. Record Survey: Reproducible transparencies.
11. Guarantees: Two (2) copies.

E. Submittal Review:

1. Review: Review of submittals will be for general conformance with the Contract Documents. Review does not relieve Contractor from responsibility for coordinating work with other trades and compliance with requirements of Contract Documents for lengths, fit and other details, or from furnishing materials and work required by contract which may not be indicated on submittals when reviewed. Review does not authorize changes from

Contract requirements. General Contractor is responsible for the accuracy and correctness of all submittals.

2. Color Selections: Architect will make no selections until all submittals related to color have been received and materials reviewed.

1.3 CONTRACTOR'S PROGRESS SCHEDULE: See Section 01 32 16, Construction Progress Schedule.

1.5 SCHEDULE OF VALUES: See Section 01 32 16, Construction Progress Schedule.

1.6 SUBMITTAL SCHEDULE

A. In conjunction with development of the Contractor's progress schedule, prepare a complete schedule of submittals. Submit the schedule within 15 days of the date of the Contract.

1. Coordinate submittal schedule with the list of subcontracts, schedule of values and the list of products as well as the Contractor's progress schedule.
2. Prepare the schedule in chronological order; include submittals required during the first 90 days of construction. Provide the following information:
   a. Scheduled date for the first submittal.
   b. Related Section number.
   c. Submittal category.
   d. Name of subcontractor.
   e. Description of the part of the Work covered.
   f. Scheduled date for resubmittal
   g. Scheduled date the Architect's final release or approval.

B. Distribution: Following response by Architect to initial submittal, print and distribute copies to the Architect, District, subcontractors, and other parties required to comply with submittal dates indicated. Post copies in the project meeting room and field office.

1. When revisions are made, distribute to the same parties and post in the same locations. Delete parties from distribution when they have completed their assigned portion of the work and are no longer involved in construction activities.

C. Revisions: Revise the schedule as necessary and in conjunction with revisions to the construction schedule, update schedule concurrently with progress schedule.

1.7 SHOP DRAWINGS

A. Submit newly prepared information, drawn to accurate scale. Highlight, encircle, or otherwise clearly and unambiguously indicate deviations from the Contract Documents. Do not reproduce Contract Documents or copy standard information as the basis of Shop Drawings. Standard information prepared without specific reference to the Project is not considered Shop Drawings.

B. Shop Drawings include fabrication and installation drawings, setting diagrams, schedules, patterns, templates and similar drawings. Include the following information:

1. Dimensions.
2. Identification of products and materials included.
3. Compliance with specified standards.
4. Notation of coordination requirements.
5. Notation of dimensions established by field measurement.
6. Sheet Size: Except for templates, patterns and similar full- size Drawings, submit Shop Drawings on sheets at least 8-1/2" x 11" but no larger than 36" x 48".
7. Submittal:

a. Submit one correctable translucent reproducible print and two blue or blackline print for the Architect's and/or consultants review.
b. The Architect will return the reproducible print with appropriate annotations to the Contractor. The Architect will send a properly annotated blue or blackline prints to the District, and the District's inspector.
c. The Contractor will reproduce one copy of the approved Shop Drawing, to be marked up and maintained as a "Record Document".

8. Do not use Shop Drawings without an appropriate final stamp indicating action taken in connection with construction. Do not proceed with installation until an applicable copy of shop drawings are in the installer's possession. Do not permit use of unmarked copies of shop drawings in connection with construction.
9. Distribution: Furnish copies of submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms.
10. Changes shown on shop drawings do not represent changes in Contract Documents. If Contractor believes submittal review has created a change to contract, then the Contractor must notify District and Architect in writing prior to performing work or purchase of materials, or equipment.

C. Coordination drawings are a special type of Shop Drawing that show the relationship and integration of different construction elements that require careful coordination during fabrication or installation to fit in the space provided or function as intended.

1. Preparation of coordination Drawings is specified in Section 01 31 13 - Project Coordination and may include components previously shown in detail on Shop Drawings or Product Data.
2. Submit coordination Drawings for integration of different construction elements. Show sequences and relationships of separate components to avoid conflicts in use of space.
   a. Architect: Same requirement as shop drawing submittal.
3. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms.
   a. Do not proceed with installation until an applicable copy of Product Data applicable is in the installer's possession.
   b. Do not permit use of unmarked copies of Product Data in connection with construction.

1.8 PRODUCT DATA

A. Collect Product Data into a single submittal for each element of construction or system. Product Data includes printed information such as manufacturer's installation instructions, catalog cuts, standard color charts, roughing-in diagrams and templates, standard wiring diagrams and performance curves. Where Product Data must be specially prepared because standard printed data is not suitable for use, submit as "Shop Drawings."

1. Mark each copy to show applicable choices and options. Where printed Product Data includes information on several products, some of which are not required, mark copies to indicate the applicable information. Include the following information:
   a. Manufacturer's printed recommendations and instructions.
   b. Compliance with recognized trade association standards.
   c. Compliance with recognized testing agency standards.
   d. Application of testing agency labels and seals.
   e. Notation of dimensions verified by field measurement.
   f. Notation of coordination requirements.

2. Do not submit Product Data until compliance with requirements of the Contract Documents has been confirmed.

3. Submittals:
   a. Submit 7 copies of each required submittal. The Architect and District will retain three and will return the others marked with action taken.

4. Distribution: Furnish copies of final submittal to installers, subcontractors, suppliers, manufacturers, fabricators, and others required for performance of construction activities. Show distribution on transmittal forms.
   a. Do not proceed with installation until an applicable copy of Product Data applicable is in the installer's possession.
   b. Do not permit use of unmarked copies of Product Data in connection with construction.

1.9 SAMPLES

A. Submit full-size, fully fabricated Samples cured and finished as specified and physically identical with the material or product proposed. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and swatches showing color, texture and pattern.

1. Mount, display, or package Samples in the manner specified to facilitate review of qualities indicated. Prepare Samples to match the Architect's Sample. Include the following:
   a. Generic description of the Sample.
   b. Sample source.
   c. Product name or name of manufacturer.
   d. Compliance with recognized standards.
   e. Availability and delivery time.

2. Submit Samples for review of kind, color, pattern, and texture, for a final check of these characteristics with other elements, and for a comparison of these characteristics between the final submittal and the actual component as delivered and installed.
   a. Where variation in color, pattern, texture or other characteristics are inherent in the material or product represented, submit multiple units (not less than 3), that show actual limits of the variations.
   b. Refer to other Specification Sections for requirements for Samples that illustrate workmanship, fabrication techniques, details of assembly, connections, operation and similar construction characteristics.
   c. Refer to other Sections for Samples to be returned to the Contractor for incorporation in the work. Such Samples must be undamaged at time of use. On the transmittal, indicate special requests regarding disposition of Sample submittals.

3. Preliminary submittals: Where Samples are for selection of color, pattern, texture or similar characteristics from a range of standard choices, submit a full set of choices for the material or product.
   a. Preliminary submittals will be reviewed and returned with the Architect's mark indicating selection and other action.
4. Submittals: Except for Samples illustrating assembly details, workmanship, fabrication techniques, connections, operation and similar characteristics, submit 3 sets; one will be returned marked with the action taken.
5. Maintain sets of Samples, as returned, at the Project site, for quality comparisons throughout the course of construction.
   a. Unless noncompliance with Contract Document provisions is observed, the submittal may serve as the final submittal.
   b. Sample sets may be used to obtain final acceptance of the construction associated

with each set.

B. Distribution of Samples: Prepare and distribute additional sets to subcontractors, manufacturers, fabricators, suppliers, installers, and others as required for performance of the Work. Show distribution on transmittal forms.

1. Field Samples specified in individual Sections are special types of Samples. Field Samples are full-size examples erected on site to illustrate finishes, coatings, or finish materials and to establish the standard by which the work will be judged.
   a. Comply with submittal requirements to the fullest extent possible. Process transmittal forms to provide a record of activity.

1.10 CERTIFICATIONS

A. General: Where specifically indicated by individual Sections, submit certification of recognized producer or association.

B. Asbestos: Provide written certification that no asbestos or asbestos containing materials have been included in the work, and that no tools, devices, clothing or equipment containing asbestos have been used to construct the work.

C. V.O.C. Compliance: Provide written certification that materials furnished and installed in the work comply with Rules on Architectural Coatings applicable in the area of the work as enforced by the local agency having jurisdiction in that area.

D. Qualifications: Under various Sections of these specifications, certain experience requirements and other qualifications may be required. When such requirements are specified, written certification of all such requirements shall be submitted to the Architect within fifteen (15) days of date of Notice to Proceed.

1.11 DEFERRED APPROVALS

A. General: Submit to Architect all documents required for deferred approval that are identified on the cover sheet of the Drawings. The full range of submittals may be required by DSA, including structural calculations and fire testing data. Approval by the Architect is contingent upon approval of all submittals required by DSA. Deferred approval items shall not be incorporated into the work without the approval of the Architect and DSA.

B. Submit items identified for deferred approval by DSA within 45 days of Notice to Proceed. Contractor should schedule a minimum of 55 calendar days for DSA approvals.

1.12 MAINTENANCE/OPERATING MANUALS

A. General: Incorporate in Maintenance/Operating Manual(s) brochures, manufacturer's catalogs and written instructions for equipment and materials needing regular care or maintenance; i.e., carpets, resilient flooring, architectural finishes, mechanical and electrical equipment, etc.

B. Manual:

1. General: Prepare all manuals using durable plastic loose leaf binders approximately 8-1/2 x 11 inches in size with the following minimum data:
2. Identification: On, or readable through, a front cover stating general nature of manual.
3. Index: Neatly typewritten at front of manual; clearly identify location of all

emergency data.

4. Operation and Maintenance Data: Complete instructions for all products and equipment required.
5. Repair/Replacement Parts: Complete nomenclature of all replaceable parts, their part numbers, current cost and name and address of nearest vendor of parts.

C. Additional Data: Where contents of manuals include manufacturer's catalog pages, clearly indicate precise items included in this project and delete, or otherwise clearly indicate, all manufacturer's data which is not in this project.

D. Provide one (1) electronic copy of manual.

1.13 RECORD DRAWINGS

A. General: Record drawings shall be kept up-to-date at all times and shall be available for review by District's Project Inspector at any time. Inspector may not authorize Contractor's pay request if record drawings are not up-to-date.

B. Drawings:

1. General: Architect will furnish reproducible transparencies to the Contractor when underground work has been completed.
2. Locations: At time of installation, installed locations of all underground, drainage, plumbing and electrical work, including storm drain grate and invert elevations, shall be recorded on prints by Contractor, and reviewed with Inspector.
3. Documentation:
   a. General: Transfer installed locations to reproducible transparencies and submit inspector approved drawings to Architect.
   b. Identification of Changes: All information entered on reproducible prints shall be neat, legible and emphasized by drawing "clouds" around changed items.
   c. Dimensions: Locate all work, including stubs for future connections, with reference to permanent landmarks or buildings and indicate depth below finish grade.
   d. Symbols and Designations: Use same as shown on Contract Drawings.

1.14 RECORD SURVEY

A. General: Provide reproducible transparency as required by Section 01 71 23 - Field Engineering.

1.15 WARRANTIES

A. Submittal: Warranties as required under individual Sections of these specifications shall be submitted in a complete package to the Architect as specified under Section 01 78 00 – Closeout Submittals, prior to completion of the work.

1.16 ARCHITECT'S ACTION

A. Submittals for record purposes, where action and return is required or requested, the Architect will review each submittal, mark to indicate action taken, and return.

1. Compliance with specified characteristics is the Contractor's responsibility.

B. Action Stamp: The Architect may stamp each submittal with a uniform, self-explanatory action stamp. The stamp will be appropriately marked, as follows, to indicate the action taken:

1. Final Unrestricted Release: where submittals are marked "Reviewed No Exceptions Taken" that part of the work covered by the submittal may proceed provided it complies with requirements of the Contract Documents; final acceptance will depend upon that compliance.
2. Final-But-Restricted Release: When submittals are marked "Make Corrections as Noted," that part of the work covered by the submittal may proceed provided it complies with notations or corrections on the submittal and requirements of the Contract Documents; final acceptance will depend on that compliance.
3. Returned for Resubmittal: When submittal is marked "Rejected" or "Revise and Resubmit," do not proceed with that part of the work covered by the submittal, including purchasing, fabrication, delivery, or other activity. Revise or prepare a new submittal in accordance with the notations; resubmit without delay. Repeat if necessary to obtain a different action mark.

a. Do not permit submittals marked "Rejected" or "Revise and Resubmit" to be used at the Project site, or elsewhere where work is in progress.

4. Resubmittals: Resubmittals must correct previous exceptions taken. If previous exceptions are not corrected and additional resubmittals are required, the Contractor will be backcharged for Architect, consultants, and District personnel and agents time for processing erroneous resubmittals.
5. Other Action: Where a submittal is primarily for information purposes, special processing or other activity, the submittal will not be returned but may be responded to as acceptance in meeting all elements of the Contract Documents.

PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION (Not Applicable).

END OF SECTION

SECTION 013500 - SPECIAL PROJECT PROCEDURES

PART 1 - GENERAL

1.1 Section Includes

A. The section specifies the administrative and procedural requirements for special environmental issues.

1.2 Historical Archaeological Remains

A. During demolition, excavation, or other subsurface construction on the site, the Contractor shall exercise due caution to be on the look out for any signs of archaeological remains, that is, unusual amounts of prehistoric bones, stones or shells, unusual amounts of historical era, debris, bricks, boards or nails, and/or human remains.

B. In the event any of the items noted in A above, or similar archaeological items, are discovered, the contractor will immediately stop work in the affected area and immediately notify the District Project Manager. Work will not resume in the affected area until authorized in writing by the District Project Manager.

1.3 Noise Control

A. The Contractor shall comply with all sound control and noise level rules, regulations, and ordinances which apply to any work performed pursuant to this Contract.

B. All engine driven equipment used for any purpose on the project or related to the project shall be equipped with muffler of a type recommended by the manufacturer.

C. During the construction period, college activities may be particularly sound sensitive. The District Project Manager will coordinate such time schedules with the Contractor to modify the work schedule to minimize the sound impact.

D. During major ground level demolition and construction activities, the contractor may be required to provide a sound barrier of plywood or tarps along certain portions of the construction site to reduce the magnitude of the sound impact on college activities.

1.4 Air Pollution

A. The Contractor shall comply with all air pollution control rules, regulations, ordinances, and statutes which apply to any work performed pursuant to this Contract, including any air pollution control rules, regulations, ordinances, and statutes specified in Section 11017 of the Government Code.

B. The Contractor shall in addition to the air pollution control rules, regulations, ordinances and statutes specified in 1.4A above, comply with the following measures to reduce construction dust and emissions:

1. Apply non-toxic soil stabilizers to all exposed construction areas which have been graded and are to be inactive for 10 days or more.

2. Enclose, cover or water twice daily any exposed piles of dirt, sand, gravel, or other construction debris.

3. Water active areas of construction at least twice daily to control wind borne dust.

4. Cover all truck beds hauling dirt, sand, soil, or other loose material to and from the construction site.

1.5 Water Pollution Controls

A. The Contractor shall comply with all rules, regulations, ordinances, and statutes which apply to water pollution, including Section 7-1.01G of the CalTrans Standard Specifications.

B. The Contractor shall, in addition to the water pollution control rules, regulations, ordinances and statutes specified in 1.5A above, comply with the following measures to reduce water pollution at the construction site:

1. Implement the Los Rios Districts Storm Water Pollution Prevention Plan if applicable to the project.

2. Develop a Best Management Plan to prevent and/or mitigate pollution of storm water runoff at and immediately around the construction site.

END OF SECTION

SECTION 014500- QUALITY CONTROL

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements for quality control services.

B. Quality control services include inspections and tests and related actions including reports, performed by independent agencies, governing authorities, and the Contractor. They do not include Contract enforcement activities performed by the Architect, or the District's Project Manager and/or Inspector.

C. Inspection and testing services are required to verify compliance with requirements specified or indicated. These services do not relieve the Contractor of responsibility for compliance with Contract Document requirements.

D. Requirements of this Section relate to customized fabrication and installation procedures, not production of standard products.

1. Specific quality control requirements for individual construction activities are specified in the Sections that specify those activities. Those requirements, including inspections and tests, cover production of standard products as well as customized fabrication and installation procedures.
2. Inspections, test and related actions specified are not intended to limit the Contractor's quality control procedures that facilitate compliance with Contract Document requirements.
3. Requirements for the Contractor to provide quality control services required by the Architect, District, or authorities having jurisdiction are not limited by provisions of this Section.

E. Inspection of the Work: All work requires inspection by a Division of State Architect certified District Inspector. No work shall be done without required inspections. Any work covered up without inspection must, if required by the Architect or District's Project Manager or Inspector, be uncovered and replaced at the Contractor's expense, including the expense of testing, if required.

1.2 RESPONSIBILITIES

A. District Responsibilities: The District will pay the costs of inspections, tests and similar quality/assurance control services specified to be performed by independent agencies and not by the Contractor, except where they are specifically indicated as the Contractor's responsibility or are provided by another identified entity. Costs for services other than Contractor required are not included in the Contract Sum.

1. The District will pay for the services of an independent agency, testing laboratory or other qualified firm to perform services which are the District's responsibility.

B. Duties of the Testing Agency: The independent testing agency engaged to perform inspections, sampling and testing of materials and construction specified in individual Specification Sections shall cooperate with the Architect and Contractor in performance of its duties, and shall provide qualified personnel to perform required inspections and tests.

1. The agency may notify the District of irregularities or deficiencies observed in the Work during performance of its services.
2. The agency is not authorized to release, revoke, alter or enlarge requirements of the Contract Documents, or approve or accept any portion of the Work.
3. The agency shall not perform any duties of the Contractor, and shall not direct the Contractor to perform any work.

C. Coordination: The Contractor and each agency engaged to perform inspections, tests and similar services shall coordinate the sequence of activities to accommodate required services with a minimum of delay. In addition the Contractor and each agency shall coordinate activities to avoid the necessity of removing and replacing construction to accommodate inspections and tests.

1. The Contractor is responsible for scheduling times for inspections, tests, taking samples and similar activities.
2. Associated Services: The Contractor shall cooperate with agencies performing required inspections, tests and similar services and provide reasonable auxiliary services as requested. Notify the agency sufficiently in advance of operations (48 hour minimum) to permit assignment of personnel. Auxiliary services required include but are not limited to:

    a. Providing access to the Work and furnishing incidental labor and facilities necessary to facilitate inspections and tests.
    b. Taking adequate quantities of representative samples of materials that require testing or assisting the agency in taking samples.
    c. Providing facilities for storage and curing of test samples, and delivery of samples to testing laboratories.
    d. Providing the agency with a preliminary design mix proposed for use for materials mixes that require control by the testing agency.
    e. Security and protection of samples and test equipment at the Project site.

D. Contractor Responsibilities: The contractor, all subcontractors, and suppliers, engaged by the Contractor on the Project shall:

1. Monitor quality control over suppliers, manufacturers, products, services, site conditions and workmanship to produce work of the highest quality. Work shall be performed by persons qualified to produce workmanship of the highest quality.

2. Comply with specified standards to achieve the highest quality for the work. Should specified reference standards conflict with Contract Documents, request in writing clarification from Architect before proceeding. Reference standard is standard current as of the date of Contract Documents.

3. Strictly comply with all manufacturer’s instructions, including each step in sequence. Should manufacturers' instructions conflict with Contract Documents, request in writing clarification from Architect before proceeding.

4. Secure all products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion or disfigurement.

5. Install field samples and mockups at the site as required by individual specification Sections for review and acceptance. Where field samples and mockups are specified to be removed, clear area of sample/mockup and restore area to acceptable level as directed by District's Project Manager or Inspector.

1.3 SUBMITTALS

A. The independent testing agency shall submit a certified written report of each inspection, test, observation, or similar service, to the Architect, District's Project Manager, Inspector and DSA, unless the Contractor is responsible for the service. If the Contractor is responsible for the service, to include manufacturers' field services, submit a certified written report of each inspection, test, observation, or similar service through the Contractor, to the Architect, District's Project Manager, Inspector and DSA.

1. Submit additional copies of each written report directly to the governing authority, when the authority so directs.
2. Report Data: Written reports of each inspection, test, or similar service shall include, but not be limited to:

a. Date of issue.
b. Project title and number.
c. Name, address and telephone number of testing agency.
d. Dates and locations of samples and tests or inspections.
e. Names of individuals making the inspection or test.
f. Designation of the Work and test method.
g. Identification of product and Specification Section.
h. Complete inspection or test data.
i. Test results and an interpretations of test results.
j. Ambient conditions at the time of sample-taking and testing.
k. Comments or professional opinion as to whether inspected or tested Work complies with Contract Document requirements.
l. Name and signature of laboratory inspector.
m. Recommendations on retesting.

1.4 QUALITY ASSURANCE

A. Qualification for Service Agencies: Engage inspection and testing service agencies, including independent testing laboratories, which are prequalified as complying with "Recommended Requirements for Independent Laboratory Qualification" by the American Council of Independent Laboratories, and which specialize in the types of inspections and tests to be performed.

1. Each independent inspection and testing agency engaged on the project shall be authorized by authorities having jurisdiction to operate in the State in which the project is located.

1.5 TESTS

A. Tests of materials and/or special inspection will be made, when required by these Specifications or by applicable laws, rules and regulations by a Testing Laboratory selected by the District. The cost of the tests shall be paid by the District. Tests shall comply with Title 24.

B. When, in the opinion of the Architect or the District's Inspector/Project Manager, additional tests or inspection are required because of the manner in which the Contractor executes his work, such tests and inspections shall be paid for by the District, but all costs may be deducted from the Contract Price. Examples of such tests and inspections are: Tests of materials, retests made necessary by failure of material to comply with requirements of the Specifications or plan requirements, etc. readiness for such inspections. Any such work covered up without approval must, if required by the Architect or the District's Inspector/Project Manager, be uncovered and replaced at the

Contractor's expense, including the expense of testing, if required.

C. Retesting: The Contractor is responsible for retesting where results of required inspections, tests or similar services prove unsatisfactory and do not indicate compliance with Contract Document requirements, regardless of whether the original test was the Contractor's responsibility.

1. Cost of retesting construction revised or replaced by the Contractor is the Contractor's responsibility, where required tests were performed on original construction. The District will pay for retesting and backcharge the contractor for these charges.

PART 2 - PRODUCTS (Not Applicable).

PART 3 - EXECUTION

3.1 REPAIR AND PROTECTION

A. General: Upon completion of inspection, testing, sample-taking and similar services, repair damaged construction and restore substrates and finishes to eliminate deficiencies, including deficiencies in visual qualities of exposed finishes. Comply with Contract Document requirements for "Cutting and Patching."

B. Protect construction exposed by or for quality control service activities, and protect repaired construction.

C. Repair and protection is the Contractor's responsibility, regardless of the assignment of responsibility for inspection, testing or similar services.

D. Testing required by the Division of the State Architect is attached at the end of this section (Attachment A).

END OF SECTION

SEE ATTACHED DSA TESTING SHEET

SECTION 015000- TEMPORARY FACILITIES AND CONTROLS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies requirements for temporary services and facilities, including utilities, construction and support facilities, security and protection, provided by Contractor.

1.2 SUBMITTALS

A. Temporary Utilities: Submit reports of tests, inspections and similar procedures performed on temporary utilities.

1.3 QUALITY ASSURANCE

A. Regulations: Comply with industry standards and applicable laws and regulations of authorities having jurisdiction, including but not limited to:

1 Health and safety regulations.
2. Utility company regulations.
3. Police, Fire Department and Rescue Squad rules.
4. Environmental protection regulations.
5. Local County Department of Transportation regulations.

B. Standards: Comply with NFPA Code 241, "Building Construction and Demolition Operations", ANSI-A10 Series standards for "Safety Requirements for Construction and Demolition", and NECA Electrical Design Library "Temporary Electrical Facilities."

1. Refer to "Guidelines for Bid Conditions for Temporary Job Utilities and Services", prepared jointly by AGC and ASC, for industry recommendations.
2. Electrical Service: Comply with NEMA, NECA and UL standards and regulations for temporary electric service. Install service in compliance with the California Electric Code (CEC).

C. Inspections: Arrange for authorities having jurisdiction to inspect and test each temporary utility before use. Obtain required certifications and permits.

D. Water Quality: Comply with requirements for water quality contained in Section 01 35 00 Special Project Procedures.

1.4 PROJECT CONDITIONS

A. Temporary Utilities: Prepare a schedule indicating dates for implementation and termination of each temporary utility. If temporary utilities are provided through the local utilities, and only a single service is allowed to the project, the temporary utilities must be shared with all contractors and subcontractors.

B. Conditions of Use: Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous dangerous or unsanitary conditions, or public nuisances to develop or persist on the site.

1.5 PUBLICITY

A. The Contractor will not release or allow to be released any information, story, photograph, plan or drawing related to the Project to anyone, including press or other public communications medium, except as submitted and authorized in writing for release by appropriate public relations authority of the District.

1.6 JOB SITE SECURITY

A. Security of the job area shall be strictly maintained by Contractor. Contractor shall be responsible for keeping all persons not directly associated with the construction operations from entering the job area without advance approval of the District's Project Manager and the Contractor. The Contractor shall be responsible for keeping areas involved in this work locked at all times when work is not in progress.

1.7 SITE CONTROLS AND PARKING

A. Entrance To Work Site: Contractor and his employees shall use certain access roads and entrances as indicated. Maintain these roads in satisfactory condition during the contract time, and repair damages attributable to work of this project at intervals as needed. At completion of Contract, roads and entrances shall be left in condition at least equal to that existing at start of Contract, except as may be otherwise required by Contract Documents.

B. Site Coverage and Work Areas (Corporation Yard): District will allocate available on-site storage and work areas to Contractor, subject to change as may be necessary by job progress, such as site development or other intervening work. At conclusion of project, Corporation Yard will be returned to original condition. If in grassed area Contractor will resod as necessary.

C. Parking: Parking will be available at the job site for company vehicles within the fenced site area only. Parking of personal vehicles belonging to Contractor's employees will be required to purchase a parking pass and park in an area designated by the college at the Pre-Construction Conference.

D. Regulations: Observe and comply with rules and regulations in effect at campuses or other facilities, including, but not restricted to, parking and traffic regulations, security restrictions, hours of access, and the like.

1.8 USE OF SIDEWALKS AND STREETS

A. Make arrangements with local authorities for temporary use of streets and sidewalks for any purpose. Contractors will abide by all rules, regulations, and ordinances, obtain any permits and pay all fees required.

PART 2 - PRODUCTS

2.1 MATERIALS

A. General: Provide new materials. Provide materials suitable for the use intended.

2.2 EQUIPMENT

A. General: Provide new equipment. Provide equipment suitable for use intended.

B. Temporary Offices: Provide prefabricated or mobile units with lockable entrances, operable windows and serviceable finishes. Provide heated and air- conditioned units on foundations adequate for normal loading.

1. Provide separate office or a separate mobile unit for District representatives of equal quality as the Contractor's field office.
2. Provide meeting room independent of offices for site meetings.
3. Furnish offices with a desk, chairs, bookcase, plan table and plan rack, and water cooler.

PART 3 - EXECUTION

3.1 INSTALLATION

A. Use qualified personnel for installation of temporary facilities. Locate facilities where they will serve the project adequately and result in minimum interference with performance of the work. Relocate and modify facilities as required. Coordinate with District's Inspector and/or Project Manager.

B. Provide each facility ready for use when needed to avoid delay. Maintain and modify as required. Do not remove until facilities are no longer needed, or are replaced by authorized use of completed permanent facilities.

3.2 TEMPORARY UTILITY INSTALLATION

A. General: Engage the appropriate local utility company to install temporary service. Where the company provides only part of the service, provide the remainder with matching, compatible materials and equipment; comply with the company's recommendations.

1. Arrange with the company and existing users for a time when service can be interrupted, where necessary, to make connections for temporary services.
2. Provide adequate capacity at each stage of construction. Prior to temporary utility availability, provide trucked-in services.
3. Use Charges: Cost or use charges for temporary facilities are not chargeable to the District or Architect, and will not be accepted as a basis of claims for a Change Order.

B. Temporary Water Service: Install temporary water service and distribution piping of sizes and pressures adequate for construction.

1. Water Source: Use water from Owner's existing water system. Contractor is to furnish and install temporary water meter(s) for connection to Owner's existing hydrant(s). This water is not considered potable and should not be used for human consumption. Contractor is to meter and pay all water service use charges for all water used by all entities engaged in construction activities at Project site including but not limited to water use associated with flushing of existing and new hydronic lines as required by Division 15 specifications.
2. Sterilization: Sterilize all water piping prior to use.

C. Temporary Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, overload protected disconnects, automatic ground-fault interrupters and main distribution switch gear when required. Provide generators for power as required when electrical service is not available.

1. Electrical Source: Contractor may utilize generators for temporary power or, at his own expense, propose and provide sub-meters and connections to the Campus existing main power for temporary power. All temporary connection

costs are the responsibility of the Contractor.

2. Power Distribution System: Install wiring overhead, and rise vertically where least exposed to damage. Where permitted, wiring circuits not exceeding 125 Volts, AC 20 ampere rating, and lighting circuits may be nonmetallic sheathed cable where overhead and exposed for surveillance.

D. Temporary Telephones: Provide temporary telephone service for all personnel engaged in construction activities, throughout the construction period. Contractor shall make all arrangements and pay all charges for telephone services.

1. At each telephone, post a list of important telephone numbers.
2. Provide separate line for on-site fax.
3. Provide one (1) separate lines each [total of two (2)] for District Inspector and Project Manager.

E. Sewers and Drainage: If sewers are available, provide temporary connections to remove effluent that can be discharged lawfully. If sewers are not available or cannot be used, provide drainage ditches, dry wells, stabilization ponds and similar facilities. If neither sewers nor drainage facilities can be lawfully used for discharge of effluent, provide containers to remove and dispose of effluent off the site in a lawful manner.

1. Filter out excessive amounts of soil, construction debris, chemicals, oils and similar contaminants that might clog sewers or pollute waterways before discharge. Meet all local and State Agency requirements to prevent discharge outside of property.
2. Connect temporary sewers to the municipal system as directed by the sewer department officials.
3. Maintain temporary sewers and drainage facilities in a clean, sanitary condition. Following heavy use, restore normal conditions promptly.

F. Storm Drainage: As required by the California State Water Resources Control Board, only rainwater is permitted in storm drain system. Wash down from equipment, vehicles, and other construction activities shall not be discharged directly into storm drain system. Contractor shall provide temporary containment, sediment traps, and/or gravel filters to prevent discharge of non-storm water into storm drain system.

G. Provide earthen embankments and similar barriers in and around excavations and subgrade construction, sufficient to prevent flooding by runoff of storm water from heavy rains.

3.3 TEMPORARY CONSTRUCTION AND SUPPORT FACILITIES INSTALLATION

A. Locate field offices, storage sheds, sanitary facilities and other temporary construction and support facilities for easy access.

B. Temporary Signs: Provide signs to provide directional information (that is traffic control, hard hat area, etc.) to construction personnel, supplier, and visitors. Coordinate the location of signs with District Project Manager so as to inform the public and persons seeking entrance to the construction site.

C. Temporary Paving: Construct and maintain temporary paving to adequately support the indicated loading and to withstand exposure to traffic during the construction period. Locate temporary paving storage areas and parking where the same permanent facilities will be located. Review proposed modifications to permanent paving with the Architect.

1. Maintain temporary paving to existing subgrade, compaction, installation and

stabilization of subbase.

D. Sanitary facilities include temporary toilets, wash facilities and drinking water fixtures. Comply with regulations and health codes for the type, number, location, operation and maintenance of fixtures and facilities. Install where facilities will best serve the project's needs.

1. Toilets: Install self-contained toilet units. Shield toilets to ensure privacy. Use of pit-type privies will not be permitted.
2. Wash Facilities: Install wash facilities supplied with potable water at convenient locations for personnel involved in handling materials that require wash-up for a healthy and sanitary condition. Dispose of drainage properly. Supply cleaning compounds appropriate for each condition.
3. Provide safety showers, eye-wash fountains and similar facilities for convenience, safety and sanitation of personnel when required.
4. Drinking Water Facilities: Provide containerized tap-dispenser bottled-water type drinking water units, including paper supply. Where power is accessible, provide electric water coolers to maintain dispensed water temperature at 45 to 55 deg F (7 to 13 deg C).
5. Provide toilet tissue, paper towels, paper cups and similar disposable materials for each facility. Provide covered waste containers for used material.

E. Collection and Disposal of Waste: Collect waste from construction areas and elsewhere daily. Comply with requirements of NFPA 241 for removal of combustible waste material and debris. Enforce requirements strictly. Do not hold materials more than 7 days during normal weather or 3 days when the temperature is expected to rise above 80 deg F (27 deg C). Handle hazardous, dangerous, or unsanitary waste materials separately from other waste by containerizing properly. Contractor to pay for and insure disposal of material in a lawful manner.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Temporary Fire Protection: Until fire protection needs are supplied by permanent facilities, install and maintain temporary fire protection facilities of the types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 10 "Standard for Portable Fire Extinguishers," and NFPA 241 "Standard for Safeguarding Construction, Alterations and Demolition Operations."

1. Locate fire extinguishers where convenient and effective for their intended purpose.
2. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities and other access routes for fighting fires. Prohibit smoking in hazardous fire exposure areas.
3. Provide supervision of welding operations, combustion type temporary heating units, and similar sources of fire ignition.

B. Permanent Fire Protection: At the earliest feasible date in each area of the Project, complete installation of the permanent fire protection facility, including connected services, and place into operation and use. Instruct key personnel on use of facilities.

C. Barricades, Warning Signs and Lights: Comply with standards and code requirements for erection of structurally adequate barricades. Paint with appropriate colors, graphics and warning signs to inform personnel and the public of the hazard being protected against. Where appropriate and needed provide lighting, including flashing red or amber lights.

D. Enclosure Fencing: Fencing shall be provided by the Contractor around the total

construction site to include the Contractor's Corporation Yard as shown on the Construction Drawings. Access gates must be locked during non construction periods. Contractor will coordinate access control with District's Project Manager.

E. Security Enclosure and Lockup: Install substantial temporary enclosure(s) of partially completed areas of construction. Provide locking entrances to prevent unauthorized entrance, vandalism, theft and similar violations of security.

1. Storage: Where materials and equipment must be stored, and are of value or attractive for theft, provide a secure lockup. Enforce discipline in connection with the installation and release of material to minimize the opportunity for theft and vandalism.

F. Environmental Protection: Provide protection, operate temporary facilities and conduct construction in ways and by methods that comply with environmental regulations, and minimize the possibility that air, waterways and subsoil might be contaminated or polluted, or that other undesirable effects might result. Avoid use of tools and equipment which produce harmful noise. Restrict use of noise making tools and equipment to hours that will minimize complaints from persons or firms near the site. Comply with environmental requirements outlined in Section 01 35 00 - Special Project Procedures.

3.5 OPERATION, TERMINATION AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. Limit availability of temporary facilities to essential and intended uses to minimize waste and abuse.

B. Maintenance: Maintain facilities in good operating condition until removal. Protect from damage by freezing temperatures and similar elements.

1. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation and similar facilities on a 24-hour day basis where required to achieve indicated results and to avoid possibility of damage.
2. Protection: Prevent water filled piping from freezing. Maintain markers for underground lines. Protect from damage during excavation operations.

C. Termination and Removal: Unless the District Project Manager requests that it be maintained longer, remove each temporary facility when the need has ended, or when replaced by authorized use of a permanent facility. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with the temporary facility. Repair damaged work, clean exposed surfaces and replace construction that cannot be satisfactorily repaired.

1. Materials and facilities that constitute temporary facilities are property of the Contractor.
2. Remove temporary paving that is not intended for or acceptable for integration into permanent paving. Where the area is intended for landscape development, remove soil and aggregate fill that does not comply with requirements for fill or subsoil in the area. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances which might impair growth of plant materials or lawns. Repair or replace street paving, curbs and sidewalks at the temporary entrances, as required by the governing authority.
3. Immediately prior to completion, clean and renovate permanent facilities that have been used during the construction period. Replace significantly worn parts and parts that have been subject to unusual operating conditions.

END OF SECTION

SECTION 01 5713–TEMPORARY EROSION AND SEDIMENT CONTROL

PART 1 - GENERAL

1.1 SCOPE OF WORK

A. Provide all materials, equipment and labor necessary to furnish and install straw wattles at locations shown on the Drawings and on Contractors Storm Water Pollution Prevention Plan.

B. PERMIT: NOTICE OF INTENT (NOI) Obtain and pay for permit in Owner's name from State Water Resources Control Board

C. STORM WATER POLLUTION PREVENTION PLAN: Prepare a Storm Water Pollution Prevention Plan (SWPPP tailored to the Contractor's operations, methods and equipment and the requirements of Los Rios Community College District. Comply with State Water Resources Control Board requirements.

1. The SWPPP shall be provided by the Contractor prior to the start of work. The SWPPP shall be tailored to the contractor's approach to the work in this contract. The Contractor shall as a minimum address:
   a. Cut and fill operations
   b. Temporary stockpiles
   c. Vehicle and equipment storage, maintenance and fueling operations
   d. Concrete, plaster, mortar and paint disposal
   e. Dust control
   f. Tracking of dirt, mud on off-site streets
   g. Pipe flushing

1.2 SUBMITTALS

A. STORM WATER POLLUTION PREVENTION PLAN: The Contractor shall submit and obtain the Storm Water Pollution Prevention Plan prior to beginning work on site.

B. Notice of Intent (NOI): The Contractor shall submit a NOI to the State Water Resources Control Board prior to beginning work on site.

1.3 QUALITY ASSURANCE

A. Comply with governing codes and regulations.

PART 2 - PRODUCTS

2.1 MATERIALS

A. STRAW WATTLES: Shall be new manufactured straw roles in compliance with state requirements for sediment control.

PART 3 – EXECUTION

3.1 INSTALLATION

A. STRAW WATTLES: Shall be installed per the drawings and/or as required by the SWPPP.

3.2 MAINTENANCE AND REMOVAL

A. Maintain and repair existing and new erosion control facilities throughout the construction period. Remove silt build-up at straw wattles as needed. Repair damage to earth slopes and banks. Erosion control measures shall be left in place until final paving and landscaping are complete.

B. Provide monitoring of erosion control measures before and after storm events. Provide a daily log of construction activities and impact on erosion control measures. Update SWPPP continuously throughout construction period.

C. Keep area clean of debris.

D. Remove erosion control measures prior to placing finish landscaping.

3.3 CLOSEOUT

A. File Notice of Termination with the State Water Resources Control Board.

END OF SECTION

SECTION 016000-PRODUCT REQUIREMENTS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements governing the Contractor's selection of products for use in the project.

1.2 DEFINITIONS

A. Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms are self-explanatory and have well recognized meanings in the construction industry.

1. "Products" are items purchased for incorporation in the work, whether purchased for the project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent.

    a. "Named Products" are items identified by manufacturer's product name, including make or model designation, indicated in the manufacturer's published product literature, that is current as of the date of the Contract Documents.

2. "Materials" are products that are substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the work.

3. "Equipment" is a product with operational parts, whether motorized or manually operated, that requires service connections such as wiring or piping.

1.3 SUBMITTALS

A. Product List Schedule: Prepare a schedule showing products specified in a tabular form acceptable to the Architect. Include generic names of products required. Include the manufacturer's name and proprietary product names for each item listed.

1. Coordinate the product list schedule with the Contractor's Progress Schedule and the Schedule of Submittals.

2. Form: Prepare the product listing schedule with information on each item tabulated under the following column headings:

    a. Related Specification Section number.
    b. Generic name used in Contract Documents.
    c. Proprietary name, model number and similar designations.
    d. Manufacturer's and name and address.
    e. Supplier's name and address.
    f. Installer's name and address.
    g. Projected delivery date, or time span of delivery period.

3. Initial Submittal: Within 15 days after date of Contract, submit 3 copies of an initial product list schedule. Provide a written explanation for omissions of data, and for known variations from Contract requirements.

a. At the Contractor's option, the initial submittal may be limited to product selections and designations that must be established early in the Contract period.

4. Completed Schedule: Within 30 days after date of Contract, submit 3 copies of the completed product list schedule. Provide a written explanation for omissions of data, and for known variations from Contract requirements.

5. Architect's Action: The Architect will respond in writing to the Contractor after receipt of the completed product list schedule. The Architect's response will include the following:

a. A list of unacceptable product selections, containing a brief explanation of reasons for this action.

1.4 QUALITY ASSURANCE

A. Source Limitations: To the fullest extent possible, provide products of the same kind, from a single source.

1. When specified products are available only from sources that do not or cannot produce a quantity adequate to complete project requirements in a timely manner, consult with the Architect for a determination of the most important product qualities before proceeding. Qualities may include attributes relating to visual appearance, strength, durability, or compatibility. When a determination has been made, select products from sources that produce products that possess these qualities, to the fullest extent possible.

B. Compatibility of Options ("or equal"): When the Contractor is given the option of selecting between two or more products for use on the project, the product selected shall be compatible with products previously selected, even if previously selected products were also options.

C. Nameplates: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products which will be exposed to view in occupied spaces or on the exterior.

1. Labels: Locate required product labels and stamps on a concealed surface or, where required for observation after installation, on an accessible surface that is not conspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service-connected or power-operated equipment. Locate on an easily accessible surface which is inconspicuous in occupied spaces. The nameplate shall contain the following information and other essential operating data:

a. Name of product and manufacturer.
b. Model and serial number.
c. Capacity.
d. Speed.
e. Ratings.

1.5 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store and handle products in accordance with the manufacturer's recommendations, using means and methods that will prevent damage, deterioration and

loss, including theft.

1. Schedule delivery to minimize long-term storage at the site and to prevent overcrowding of construction spaces.
2. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft and other losses.
3. Deliver products to the site in the manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting and installing.
4. Inspect products upon delivery to ensure compliance with the Contract Documents, and to ensure that products are undamaged and properly protected.
5. Store products at the site in a manner that will facilitate inspection and measurement of quantity or counting of units.
6. Store heavy materials away from the project structure in a manner that will not endanger the supporting construction.
7. Store products subject to damage by the elements above ground, under cover in a weathertight enclosure, with ventilation adequate to prevent condensation. Maintain temperature and humidity within range required by manufacturer's instructions.

PART 2 - PRODUCTS

2.1 PRODUCT SELECTION

A. General Product Requirements: Provide products that are new and undamaged, that comply with the Contract Documents, and, unless otherwise indicated, unused at the time of installation.

1. Provide products complete whether completely specified or not with all accessories, trim, finish, safety guards and other devices and details needed for a complete installation and for the intended use and effect.
2. Standard Products: Where available, provide standard products of types that have been produced and used successfully in similar situations on other projects.

B. Product Selection Procedures: Product selection is governed by the Contract Documents and governing regulations, not by previous Project experience. Procedures governing product selection include the following:

1. Proprietary Specification Requirements: Where only a single product or manufacturer is named, provide the product indicated. No substitutions will be permitted.

2. Semi-proprietary Specification Requirements: Where two or more products or manufacturers are named, provide one of the products indicated. No substitutions will be permitted.

   a. Where products or manufacturers are specified by name, accompanied by the term "or equal," or "or approved equal" comply with the Contract Document provisions concerning "substitutions" to obtain approval for use of an unnamed product.

3. Descriptive Specification Requirements: Where Specifications describe a product or assembly, listing exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that provides the characteristics and otherwise complies with Contract requirements.

4. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements, and are recommended by the manufacturer for the application indicated. General overall performance of a product is implied where the product is specified for a specific application.

    a. Manufacturer's recommendations may be contained in published product literature, or by the manufacturer's certification of performance.

5. Compliance with Standards, Codes and Regulations: Where the Specifications only require compliance with an imposed code, standard or regulation, select a product that complies with the standards, codes or regulations specified. Certificate covering compliance shall be furnished to Architect.

    a. When Division of State Architect or California State Fire Marshall has approved a product or material it is the Contractor's responsibility to obtain approval for any products submitted as "substitution". Architects submittal stamp showing review does not deviate the Contractor's responsibility for obtaining approval. Any time spent by Architect to help obtain approval with Contractor will be billed to Contractor by the District, or held from payment due to Contractor.

6. Visual Matching: Where Specifications require matching an established Sample, the Architect's decision will be final on whether a proposed product matches satisfactorily.

    a. Where no product available within the specified category matches satisfactorily and also complies with other specified requirements, comply with provisions of the Contract Documents concerning "substitutions" for selection of a matching product in another product category, or for noncompliance with specified requirements.

7. Visual Selection: Where specified product requirements include the phrase "as selected from manufacturer's standard colors, patterns, textures..." or a similar phrase, select a product and manufacturer that complies with other specified requirements. The Architect will select the color, pattern and texture from the product line selected.

PART 3 - EXECUTION

3.1 INSTALLATION OF PRODUCTS:

A. Comply with manufacturer's instructions and recommendations for installation of products in the applications indicated. Anchor each product securely in place, accurately located and aligned with other Work. Install all accessories, trim finish, safety guards, and other devices and details needed for a complete and finished installation.

1. Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Completion.

END OF SECTION

SECTION 01 71 23 - FIELD ENGINEERING

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. General: This Section specifies administrative and procedural requirements for field engineering services, including, but not necessarily limited to, the following:

1. Land survey Work.

1.2 SUBMITTALS

A. Certificates: Submit a certificate signed by the Land Surveyor or Professional Engineer certifying that the location and elevation of improvements comply with the Contract Documents.

B. Project Record Documents: Submit a record of work performed and record survey data as required under provisions of Section 01 77 00 - Closeout Procedures.

1.3 QUALITY ASSURANCE

A. Surveyor: The Contractor will engage a Registered Land Surveyor registered in the State of California, to perform land surveying services as required.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

A. The Contractor will locate and identify existing control points and property line corner stakes.

B. Verify layout information shown on the Drawings, in relation to the property survey and existing benchmarks before proceeding to layout the work. Locate and protect existing benchmarks and control points. Preserve permanent reference points during construction.

1. Do not change or relocate benchmarks or control points without prior written approval by District. Promptly report lost or destroyed reference points, or requirements to relocate reference points because of necessary changes in grades or locations.

2. Promptly replace lost or destroyed project control points. Base replacements on the original survey control points. Work to be performed by a registered surveyor.

C. Establish and maintain a minimum of two permanent benchmarks on the site, referenced to data established by survey control points.

1. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.

D. Existing utilities: It is recognized by the Contractor that the location of existing utility facilities as shown on Contract drawings and specifications are approximate; their exact location is unknown.

1. Recognition is given to the fact that there may be additional utilities existing on the property unknown to either party to the Contract. Location of utilities as shown on drawings and specifications represent the best information obtainable from utility maps and other information furnished by the various agencies involved. The District warrants neither the accuracy nor the extent of actual installations as shown on the drawings and specifications.

2. Because of this uncertainty, it may become necessary for the Architect to make adjustments in the line or grade of sewers or storm drains. Installation of such adjusted lines shall be made at the regular unit price bid for the work, and no additional compensation will be paid therefor, unless the scope and character of the work has been changed.

3. The Contractor agrees and is required to coordinate and fully cooperate with the District and utility owners for the location, relocation, and protection of utilities. The Contractor's attention is directed to the existence of utilities, underground and overhead, necessary for normal commercial service for all buildings along the line of work. The Contractor shall make arrangements with utility owners for the location of commercial services lines in advance of the actual construction and for the relocation of such facilities, if necessary, by the utility owner or the Contractor.

4. In accordance with Section 4215 of the Government Code of the State of California, the District shall make provisions to compensate the Contractor for the costs of locating, repairing damage not due to the failure of the Contractor to exercise reasonable care, and removing or relocating such main and trunk line utility facilities not indicated in the plans and specifications with reasonable accuracy, and for equipment on the project necessarily idled during such work. Compensation will be in accordance with Paragraph 39, Changes, and subject to all of the requirements of Paragraph 37, Claims, of the General Conditions. In the event the Contractor discovers utilities not identified in the Contract Documents, the Contractor shall immediately notify the Architect and the utility owner by the most expeditious means available and later confirm in writing.

5. It is understood and agreed that the failure of the Contractor or his/her subcontractor to comply fully with these provisions constitutes failure of the Contractor to exercise reasonable care and precludes Contractor's recovery from District for any related costs or damages.

3.2 PERFORMANCE

A. Working from lines and levels established by the property survey, establish benchmarks and markers to set lines and levels at each story of construction and elsewhere as needed to properly locate each element of the Project. Do not scale Drawings to determine dimensions.

1. Advise everyone engaged in construction activities, of marked lines and levels provided for their use.
2. As construction proceeds, check every element for line, level and plumb.

B. Surveyor's Log: Maintain a surveyor's log of control and other survey work. Make this log available for reference, and submit with as-built drawings.

1. Record deviations from required lines and levels, and immediately advise the

Architect in writing when deviations that exceed indicated or recognized tolerances are detected. On Project Record Drawings, record deviations that are accepted in writing by the District and not corrected.

C. Existing Utilities: Furnish information necessary to adjust, move or relocate existing structures, utility poles, lines, services or other appurtenances located in, or affected by construction. Coordinate with local authorities having jurisdiction.

3.3 PROJECT SURVEY REQUIREMENTS

A. Establish lines and levels and layout:

1. Site improvements (pad work)

a. Stakes for grading and fill placement.
b. Utility slopes and invert elevations.

2. Batter boards for structures

3. Building foundations, column locations, and floor levels

4. Controlling lines and levels required for mechanical and electrical work.

5. Building roof deck slope verification and as built survey.

B. Verify layouts as work proceeds to assure compliance with required lines, levels, and tolerances.

END OF SECTION

SECTION 017700-CLOSEOUT PROCEDURES

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies administrative and procedural requirements for project close-out, including but not limited to:

1. Inspection procedures.
2. Project record document submittal.
3. Operating and maintenance manual submittal.
4. Submittal of warranties.
5. Final cleaning.

B. Close-out requirements for specific construction activities are included in the appropriate Sections in Divisions 2 through 46.

C. Actual completion is required for all work to be completed under each phase.

1.2 COMPLETION

A. Preliminary Procedures: Before requesting inspection for certification of Completion, complete the following. List exceptions in the request.

1. Deliver tools, spare parts, extra stock, and similar items.
2. Make final change-over of permanent locks and transmit keys to the District. Advise the District's personnel of change-over in security provisions.
3. Complete start-up testing of systems, and instruction of the District's operating and maintenance personnel. Discontinue or change over and remove temporary facilities from the site, along with construction tools, mock-ups, and similar elements.
4. Complete final clean up requirements, including touch-up painting. Touch-up and otherwise repair and restore marred exposed finishes.

B. Completion: When Contractor determines that all work included under this Contract is completed and with the concurrence of the District Project Manager, he shall submit written notice of such finding to the Architect and indicate the time and date for a "punch list" inspection at least five (5) days following the date of the notice.

1. The Architect will then notify the appropriate consultants to make their inspections and prepare "punch lists".

2. The Architect and consultants shall prepare a "punch list" in the presence of the Contractor as a convenience to the Contractor for items not completed and work unacceptable to the requirements of the Contract Documents.

3. The "punch list" is not to be construed as a requirement to assist in completion of the project, and the Contractor shall make a diligent effort to complete all of the work in conformance with the requirements of the Contract Documents before requesting a "punch list". Corrections of items noted on the "punch list" does not relieve the Contractor from conforming with all requirements of the Contract Documents.

1.3 FINAL ACCEPTANCE

A. Preliminary Procedures: Before requesting final inspection for certification of final acceptance and final payment, complete the following. List exceptions in the request.

1. Submit the final payment request with releases and supporting documentation not previously submitted and accepted. Include certificates of insurance for products and completed operations where required.
2. Submit an updated final statement, accounting for final additional changes to the Contract Sum.
3. Submit a certified copy of the Architect's final inspection list of items to be completed or corrected, stating that each item has been completed or otherwise resolved for acceptance. The copy is to be signed by Contractor and dated.
4. Submit final meter readings for utilities, a measured record of stored fuel, and similar data as of the date of Actual completion, or when the District took possession of and responsibility for corresponding elements of the work.
5. Submit consent of surety to final payment.
6. Submit a final liquidated damages settlement statement if applicable.
7. Submit evidence of final, continuing insurance coverage complying with insurance requirements.

B. Re-inspection Procedure: The Architect will re-inspect the work upon receipt of notice that the work, including inspection list items from earlier inspections, has been completed, except items whose completion has been delayed because of circumstances acceptable to the Architect.

1. Upon completion of re-inspection, the Architect will prepare a letter of final acceptance by the Architect, or advise the Contractor of work that is incomplete or of obligations that have not been fulfilled but are required for final acceptance.
2. The Architect, consultants and District Inspector and/or Project Manager will make only one re-inspection at no cost to the Contractor.

1.4 RECORD DOCUMENT SUBMITTALS

A. General: Do not use record documents for construction purposes; protect from deterioration and loss in a secure, fire-resistive location; provide access to record documents for the Architect's reference during normal working hours.

B. Record Drawings: Maintain current on a daily basis, a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies in any respect from the Work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately; where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.

1. Mark record sets with red erasable pencil; use other colors to distinguish between variations in separate categories of the work.
2. Mark new information that is important to the District, but was not shown on Contract Drawings or Shop Drawings.
3. Note related Change Order numbers where applicable.
4. Upon completion of the work, obtain one set of reproducible transparencies from the original documents available from the Architect and transfer all comments from the field set of prints to the transparencies. Transfer work shall be of professional quality as performed by a professional draftsperson.
5. Upon completion of the work, submit record drawing transparencies to the

District for the District's records along with one (1) electronic copy.

6. Upon completion of the work, submit record survey drawing transparencies to the District for the District's records along with one (1) electronic copy.

C. Record Specifications: Maintain one complete copy of the Contract Documents, including addenda, and one copy of other written construction documents such as Change Orders and modifications issued in printed form during construction. Mark these documents to show variations in actual work performed in comparison with the text of the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot otherwise be readily discerned later by direct observation. Note related record drawing information and Product Data.

1. Upon completion of the work, submit record Specifications to the District for the District's records along with one electronic copy.

D. Record Product Data: Maintain one copy of each Product Data submittal. Mark these documents to show variations in actual work performed in comparison with information submitted. Include variations in products delivered to the site, and from the manufacturer's installation instructions and recommendations. Give particular attention to concealed products and portions of the work which cannot otherwise be readily discerned later by direct observation. Note related Change Orders and mark-up of record drawings and specifications.

1. Upon completion of mark-up, submit complete set of record Product Data to the District for the District's records along with one electronic copy.

E. Record Sample Submitted: Immediately prior to the date or dates of Actual completion, the Contractor will meet at the site with the Architect and the District's personnel to determine which of the submitted Samples that have been maintained during progress of the Work are to be transmitted to the District for record purposes. Comply with delivery to the District's Sample storage area.

F. Miscellaneous Record Submittals: Refer to other Specification Sections for requirements of miscellaneous record-keeping and submittals in connection with actual performance of the work. Immediately prior to the date or dates of Actual completion, complete miscellaneous records and place in good order, properly identified and bound or filed, ready for continued use and reference. Submit to the District for the District's records.

G. Maintenance Manuals:

1. General: Incorporate brochures, manufacturer's catalogs and written instructions for equipment and materials needing regular care or maintenance; i.e., carpets, resilient flooring, architectural finishes, mechanical and electrical equipment, etc.

2. Provide heavy duty, 3-ring vinyl covered binders with clear plastic covers and pocket folders for folded sheet information. Mark appropriate identification on front and spine of each binder. Organize manuals into three (3) suitable sets of manageable size. Deliver three (3) sets of manuals to District's project manager along with one (1) electronic copy. Provide the following minimum information:

a. Typewritten index at front of manual.
b. Emergency instructions.
c. Copies of warranties.
d. Operation and maintenance instructions.
e. Wiring diagrams.

f. Recommended "turn around" cycles.
g. Inspection procedures.
h. Shop drawings and product data.
i. Repair/Replacement parts; complete nomenclature of all replaceable parts, their part numbers, (current cots), and name and address of nearest vendor.
j. Fixture lamping schedule.
k. Material Safety Data Sheets for all materials used.

3. Additional Data: Where contents of manuals include manufacturer's catalog pages, clearly indicate precise items included in this project and delete or otherwise clearly indicate manufacturer's date which is not in this project.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 CLOSEOUT PROCEDURES

A. Operating and Maintenance Instructions: Arrange for each installer of equipment that requires regular maintenance to meet with the District's personnel to provide instruction in proper operation and maintenance. If installers are not experienced in procedures, provide instruction by manufacturer's representatives. Include a detailed review of the following items:

1. Maintenance manuals.
2. Record documents.
3. Spare parts and materials.
4. Tools.
5. Lubricants.
6. Fuels.
7. Identification systems.
8. Control sequences.
9. Hazards.
10. Cleaning.
11. Warranties and bonds.
12. Maintenance agreements and similar continuing commitments.

B. As part of instruction for operating equipment, demonstrate the following procedures:

1. Start-up.
2. Shutdown.
3. Emergency operations.
4. Noise and vibration adjustments.
5. Safety procedures.
6. Economy and efficiency adjustments.
7. Effective energy utilization.

3.2 FINAL CLEANING

A. General: General cleaning during construction is required by the General Conditions.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to the condition expected in a normal, commercial building cleaning and maintenance program. Comply with manufacturer's instructions.

1. Complete the following cleaning operations before requesting inspection for completion.

    a. Remove labels that are not permanent labels.
    b. Clean exposed exterior and interior hard-surfaced finishes to a dust-free condition, free of stains, films and similar foreign substances. Restore reflective surfaces to their original reflective condition.
    c. Wipe surfaces of electrical equipment. Remove excess lubrication and other substances.
    d. Clean the site, including landscape development areas, of rubbish, litter and other foreign substances. Sweep paved areas broom clean; remove stains, spills and other foreign deposits. Rake grounds that are neither paved nor planted, to a smooth even-textured surface.

C. Removal of Protection: Remove temporary protection and facilities installed for protection of the work during construction.

D. Compliance: Comply with regulations of authorities having jurisdiction and safety standards for cleaning. Do not burn waste materials. Do not bury debris or excess materials on the District's property. Do not discharge volatile, harmful or dangerous materials into drainage systems. Remove waste materials from the site and dispose of in a lawful manner.

1. Where extra materials of value remaining after completion of associated work have become the District's property, arrange for disposition of these materials as directed.

F. If Contractor fails or refuses to fulfill these obligations to the District's satisfaction, District may, at its option, undertake these obligations, and withhold the cost of performing these obligations, plus an additional fee of twenty-five percent (25%) for administrative costs, from payments to Contractor.

END OF SECTION

SECTION 017800 - CLOSEOUT SUBMITTALS

PART 1 - GENERAL

1.1 SECTION INCLUDES

A. This Section specifies general administrative and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturers standard warranties on products and special warranties.

1. Specific requirements for warranties for the work and products and installations that are specified to be warranted, are included in the individual Sections of Divisions 2 through 46.
2. Certifications and other commitments and agreements for continuing services to District are specified elsewhere in the Contract Documents.

B. Disclaimers and Limitations: Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the work that incorporates the products, nor does it relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.

C. Except as otherwise specified all work shall be guaranteed by the Contractor against defects in materials, equipment, or workmanship for one (1) year from date of Notice of Completion.

D. In case of work performed by subcontractors and where guarantees are required under the various technical Divisions of the Specifications, warranties addressed to and in favor of the District shall be secured from said subcontractors and delivered to the District upon completion of the work. The delivery of said guarantees shall not relieve the Contractor from any obligation assumed under any other provision of the Contract.

E. After Final Payment: Neither the final certificate for payment nor any provisions in the Contract Documents shall relieve the Contractor of responsibility for defective materials or workmanship, and unless otherwise specified, Contractor shall remedy any defects due thereto and pay for any damage to other work resulting therefrom which shall appear within a period of one (1) year from date of Notice of Completion.

1.2 DEFINITIONS

A. Standard Product Warranties are preprinted written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the District.

B. Special Warranties are written warranties required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the District.

1.3 WARRANTY REQUIREMENTS

A. Related Damages and Losses: When correcting work that has failed, remove and replace other work that has been damaged as a result of such failure or that must be removed and replaced to provide access for correction of warranted work.

B. Reinstatement of Warranty: When work has failed and been corrected by replacement or

rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.

C. Replacement Cost: Upon determination that work covered by a warranty has failed, replace or rebuild the work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective work regardless of whether the District has benefitted from use of the work through a portion of its anticipated useful service life, regardless of the cost to replace or rebuild the defective work, and the doctrines of diminution of value and economic waste shall not apply.

D. District's Recourse: Written warranties made to the District are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the District can enforce such other duties, obligations, rights, or remedies.

1. Rejection of Warranties: The District reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents.

E. The District reserves the right to refuse to accept work for the Project where a special warranty, certification, or similar commitment is required on such work or part of the work, until evidence is presented that entities required to countersign such commitments are willing to do so.

F. In case the Contractor fails to do the work so ordered the District may have the work done and charge the cost thereof against monies due or to become due the Contractor. If no such monies are available the Contractor and his/her sureties shall pay the District the cost of such work.

G. If within a guarantee and warranty period defects develop due to defects in materials or workmanship the Contractor shall, within 48 hours after notification to the Contractor by the District and without additional expense to the District:

1. Replace in satisfactory condition in every particular all of such guaranteed work, correct all defects therein and;
2. Make good all damage to the building or site, or equipment or contents thereof which, in the opinion of the Architect and the District, is the result of the use of materials, equipment, or workmanship which are inferior, defective, or not in accordance with the terms of the Contract and;
3. Make good any work or material, or the equipment and contents of said building or site disturbed, in fulfilling any such guarantee.

1.4 SUBMITTALS

A. Form of Submittal: At Final Completion compile two copies of each required warranty and bond properly executed by the Contractor, or by the Contractor, subcontractor, supplier, or manufacturer. Organize the warranty documents into an orderly sequence based on the table of contents of the Contract Documents.

B. Bind warranties and bonds in heavy-duty, commercial quality, durable 3-ring vinyl covered loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2" by 11" paper.

1. Provide heavy paper dividers with celluloid covered tabs for each separate warranty. Mark the tab to identify the product or installation. Provide a typed

description of the product or installation, including the name of the product, and the name, address and telephone number of the installer.

2. Identify each binder on the front and the spine with the typed or printed title "WARRANTIES AND BONDS, the Project title or name, and the name of the Contractor.
3. When operating and maintenance manuals are required for warranted construction, provide additional copies of each required warranty, as necessary, for inclusion in each required manual.

PART 2 - PRODUCTS (not applicable)

PART 3 – EXECUTION (not applicable)

END OF SECTION

GUARANTY-WARRANTY FOR

_____ (trade section or item of equipment

We hereby warrant and the General Contractor guarantees that the (trade section or item of equipment) which we have installed in the (project name) has been done in accordance with the Drawings and Specifications and that the work as installed will fulfill requirements of the Guaranty-warranty included in the Specifications. We agree to repair any or all of our work together with any other adjacent work which may be displaced or damaged by so doing, that may prove to be defective in its workmanship or materials within a period of (number) year(s) from date of acceptance of above named buildings, without any expense to the Los Rios Community College District, ordinary wear and tear and unusual abuse or neglect excepted.

In the event of our failure to comply with above-mentioned conditions within 48 hours after being notified by the Los Rios Community College District we, collectively or separately, do hereby authorize the Los Rios Community College District to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

SIGNED

COUNTERSIGNED
DATE OF ACCEPTANCE:
(month, day, year) TO (month, day, year)

SECTION 01 61 16

VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Requirements for Indoor-Emissions-Restricted products.

B. Requirements for VOC-Content-Restricted products.

C. Requirement for installer certification that they did not use any non-compliant products.

1.02 DEFINITIONS

A. Interior of Building: Anywhere inside the exterior weather barrier.

1.03 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: For each VOC-restricted product used in the project, submit evidence of compliance.

C. Installer Certifications Regarding Prohibited Content: Require each installer of any type of product (not just the products for which VOC restrictions are specified) to certify that either 1) no adhesives, joint sealants, paints, coatings, or composite wood or agrifiber products have been used in the installation of his products, or 2) that such products used comply with these requirements.

PART 2 PRODUCTS

2.01 MATERIALS

A. All Products: Comply with the most stringent of federal, State, and local requirements, or these specifications.

PART 3 EXECUTION

3.01 FIELD QUALITY CONTROL

A. Owner reserves the right to reject non-compliant products, whether installed or not, and require their removal and replacement with compliant products at no extra cost to Owner.

B. Additional costs to restore indoor air quality due to installation of non-compliant products will be borne by Contractor.

END OF SECTION

SECTION 09 72 00
WALL COVERINGS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Surface preparation and prime painting.

B. Wall covering and borders.

1.02 RELATED REQUIREMENTS

A. Section 01 61 16 - Volatile Organic Compound (VOC) Content Restrictions.

B. Section 09 91 23 - Interior Painting: Preparation and priming of substrate surfaces.

1.03 REFERENCE STANDARDS

A. ASTM D1308 - Standard Test Method for Effect of Household Chemicals on Clear and Pigmented Organic Finishes; 2002 (Reapproved 2013).

B. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.

C. ASTM F793/F793M - Standard Classification of Wall Coverings by Use Characteristics; 2015.

1.04 SUBMITTALS

A. See Section 01 33 00 - Submittal Procedures, for submittal procedures.

B. Product Data: Provide data on wall covering and adhesive.

C. Shop Drawings: Indicate wall elevations with seaming layout.

D. Samples: Submit 1 samples of wall covering, __12__by__36__ inch in size illustrating color, finish, and texture.

E. Sample Panels: Provide paper proof ofimage and layout for review. When paper proof has been accepted, provide vinyl strike-off of image and layout.

F. Test Reports: Indicate verification of flame and smoke ratings, when tested by UL.

G. Manufacturer's Installation Instructions: Indicate special procedures.

H. Maintenance Data: Submit data on cleaning, touch-up, and repair of covered surfaces.

I. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. See Section 01 25 00 - Substution Procedures, for additional provisions.

1.05 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum three years of documented experience.

B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

1.06 DELIVERY, STORAGE, AND HANDLING

A. Inspect roll materials at arrival on site, to verify acceptability.

B. Protect packaged adhesive from temperature cycling and cold temperatures.

C. Do not store roll goods on end.

1.07 FIELD CONDITIONS

A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the adhesive or wall covering product manufacturer.

B. Maintain these conditions 24 hours before, during, and after installation of adhesive and wall covering.

PART 2 PRODUCTS

2.01 MANUFACTURERS

A. Basis of Design - Wall Coverings: TERRALON.

2.02 MATERIALS

A. Requirements for Wall Coverings:
   1. Surface Burning Characteristics: Flame spread/Smoke developed index of 25/50, maximum, when tested in accordance with ASTM E84.
   2. Chemical and Stain Resistance: No visible staining or discoloration and no damage to surface texture when tested in accordance with ASTM D1308.

B. Wall Covering - Type II non-PVC wall covering: Vinyl coated fabric roll stock, conforming to the following:
   1. Conform to ASTM F793, Category Class A as tested in accordance with ASTM E84: flame spread less than 25, smoke developed less than 450..
   2. Fabric: 100 percent polyester/ natural fiber technology. mil.
   3. Total Weight: 11 oz/sq yd.
   4. Tensil Strength: 63 lbf x 50 lbf (MD x CMD)
   5. Tear Strength: 56x 46
   6. Roll Width: 54 inches.
   7. Backing: Woven, osnaburg fabric.
   8. Design: Architect to provide a basis of design image. Vendor to produce image..
   9. Printing: Single- sided digital printing with eco-solvent and UK inks.

C. Substrate Filler: As recommended by adhesive and wall covering manufacturers; compatible with substrate.

D. Substrate Primer and Sealer: [].
   1. R-35 Adhesion Promoting PRO-935
   2. Ultra- Prime Pro- 777 Primer
   3. Ultra PLUS Permeable Wallcovering Primer PRO-990 with Mildew Guard
      a. Mold and Mildew-resistant
      b. VOC: Less than 20 g/L.
      c. Vapor Permeance: 32 perms.
   4. ULTRA PLUS PRO-988 Primer with Mildew Guard
      a. VOC: Less than 15 g/L.

E. Adhesives: Basis of Design Roman Decorating Products, Calumet City, IL 708-891-0770, www.romandecoratingproducts.com
   1. ULTRA PLUS Clay Adhesive PRO- 788 with mildew guard.
      a. Mold and mildew-proof adhesive.
      b. VOC: 20 g/L max.
   2. ULTRA PLUS PRO-888 Clear Adhesive with Mildew Guard
      a. Clear, mold and mildew-resistant adhesive.
      b. VOC: 15 g/L max.
   3. ULTRA PLUS Permeable Wallcovering Adhesive PRO-550 with Mildew Guard .
      a. Mold and mildew-proof adhesive.
      b. VOC: 20 g/L max.
      c. Vapor Permeance: 25 perms.
   4. EXTRA STRENGTH Clay Adhesive PRO-732
      a. VOC: 20 g/L max.
   5. Primer and Adhesive Warranty: Manufacturer's five-year warranty against loss of adhesion.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that substrate surfaces are prime painted and ready to receive work, and conform to requirements of the wall covering manufacturer.

B. Measure moisture content of surfaces using an electronic moisture meter. Do not apply wall coverings if moisture content of substrate exceeds level recommended by wall covering manufacturer.

C. Verify flatness tolerance of surfaces does not vary more than 1/8 inch in 10 feet nor vary at a rate greater than 1/16 inch/ft.

D. Beginning of installation means acceptance of exisitng surfaces.

3.02 PREPARATION

A. Comply with manufacturer's written instructions forsurface preparation.

B. Fill cracks in substrate and smooth irregularities with filler; sand smooth.

C. Clean substrates of substance that could impair bond of wall covering, including dirt, oil,grease, mold, mildew, and incompatible primers.

D. Surface Appurtenances: Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.

E. Surfaces: Correct defects and clean surfaces that affect work of this section. Remove existing coatings that exhibit loose surface defects.

F. Marks: Seal with shellac those that may bleed through surface finishes.

G. Apply one coat of primer sealer to substrate surfaces. Allow to dry. Lightly sand smooth.

H. Vacuum clean surfaces free of loose particles.

3.03 INSTALLATION

A. Apply adhesive and wall covering in accordance with manufacturer's instructions.

B. Use wall covering in roll number sequence.

C. Razor trim edges on flat work table. Do not razor cut on gypsum board surfaces.

D. Apply wall covering smooth, without wrinkles, gaps or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly.

E. Apply wall covering smoothly, without wrinkles, gaps, or overlaps. Eliminate air pockets and ensure full bond to substrate surface. Butt edges tightly.

F. Overlap adjacent panels as recommended by manufacturer.

G. Horizontal seams are not acceptable.

H. Do not seam within 2 inches of internal corners or within 6 inches of external corners.

I. Install wall covering before installation of bases and items attached to or spaced slightly from wall surface.

J. Do not install wall covering more than 1/4 inch below top of resilient base.

K. Cover spaces above and below windows, above doors, in pattern sequence from roll.

L. Apply wall covering to electrical wall plates prior to replacing.

M. Remove excess adhesive while wet from seam before proceeding to next wall covering sheet. Wipe clean with dry cloth.

3.04 CLEANING

A. Clean wall coverings of excess adhesive, dust, dirt, and other contaminants.

B. Remove excessive adhesive from adjacent surfaces as work progresses.

C. Reinstall wall plates and accessories removed prior to work of this section.

3.05 PROTECTION

A. Do not permit construction activities at or near finished wall covering areas.

END OF SECTION

SECTION 22 05 00

PLUMBING AND PIPING SYSTEMS

PART 1 GENERAL

1.1 WORK INCLUDED

A. Types of plumbing piping systems specified in this section include the following:

Water Piping
Building Drain Piping
Rainwater Piping
Storm Drain Piping
Vent Piping
Piping Specialties
Valves
Cleanouts
Floor Drains
Roof Drains
Trap Primers
Hose Bibbs
Wall Hydrants
Backflow Preventers

1.2 QUALITY ASSURANCE:

A. Manufacturer's Qualifications: Firms regularly engaged in manufacture of plumbing piping systems products, of types, materials, and sizes required, whose products have been in satisfactory use in similar service for not less than 5 years.

B. Contractor's Qualifications: Firm with at least 5 years of successful installation experience on projects with piping systems work similar to that required for project.

C. Requirements of Regulatory Agencies:

1. Plumbing Code Compliance: Comply with applicable portions of California Plumbing Code pertaining to selection and installation of plumbing materials and products.

2. Standards and Codes: Latest adopted edition by authority having jurisdiction.

California Plumbing Code – 2016
AWWA 9th Edition
NFPA 99
CA Code of Regulations, Title 17
CA Code of Regulations, Title 24
SMACNA Guidelines and Standards
Fed OSHA Title 29, Cal OSHA Title 8 or CA Labor Code

3. Utility Compliance: Fabricate and install natural gas systems in accordance with local gas utility company requirements.

4. CMC Compliance: Fabricate and install natural gas systems in accordance with IAPMO "California Plumbing Code."

1.3 QUALITY CONTROL

A. Workmanship: Comply with industry standards of the region except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship. Provide suitably qualified personnel to produce work of specified quality. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration and racking.

1.04 SUBMITTALS:

A. Product Data: Submit manufacturer's technical product data and installation instructions for plumbing piping systems materials and products.

1. All materials, equipment, devices, etc to be installed on project shall be factory manufactured, no exceptions taken.

2. All materials, equipment, etc. to be used for permanent installation purposes shall be new. No used materials, equipment, etc. shall be allowed.

3. No item submitted on by the Contractor shall be of a lesser quality in materials or performance than what is in the project specifications.

B. Record Drawings: At project closeout, submit As Built Drawings of installed piping systems, in accordance with requirements of Division 1.

C. Maintenance Data: Submit maintenance data and parts lists for plumbing piping systems materials and products. Include this data, product data, shop drawings, and record drawings in maintenance manual; in accordance with requirements of Division 1.

PART 2 PRODUCTS

2.1 MATERIALS AND PRODUCTS:

A. Provide piping materials and factory-fabricated piping products of sizes, types, pressure ratings, temperature ratings, and capacities as indicated. Provide materials and products complying with Uniform Plumbing Code.

2.2 BASIC PIPES AND PIPE FITTINGS:

A. Provide pipes and pipe fittings complying with Division 22 & 23 Mechanical Materials and Methods section "Pipes and Pipe Fittings," in accordance with the following listing:

1. Interior Water Piping:

    a. Tube Size 1-1/2" inches and Smaller: Copper tube; Type L, hard- drawn temper; wrought-copper fittings, solder joints.

    b. Tube Size 2" inches and Larger: Copper tube; Type L, hard-drawn temper; wrought-copper fittings, brazed joints. This includes all pressure systems, all brazing by certified brazer only.

    c. Water underground to 1” pipe size shall be type L soft copper with no joints underground.

2. Exterior Water Piping:

    a. Pipe Size 4 inches through 12 inches Below Grade: Polyvinyl chloride (PVC) water pipe; Class 150, DR-18; cast-iron or ductile-iron fittings, ring-tite joints. Pipe shall be listed as AWWA C900.

3. Above Ground Building Drain Piping:

    a. Cast-iron hub-and-spigot soil pipe; service weight; cast- iron, hub-and-spigot soil pipe fittings, compression gasket joints.

    b. Hubless cast-iron soil pipe; service weight; hubless cast-iron soil pipe fittings. Cast iron waste lines to be stainless steel (minimum) four band no-hub Husky bands. Standard stainless steel two band no-hub bands to be used on vent systems only, no exceptions taken.

4. Vent Piping:

    a. Cast iron soil pipe and fittings as specified above or DWV hard drawn copper tubing with cast bronze solder joint fittings and lead free solder may be used above ground. Provide test tees as specified.

5. Underground Building Drain Piping:

    a. Cast-iron hub-and-spigot soil pipe; cast-iron hub-and-spigot soil pipe fittings. Provide neoprene gasket at each hub.

    b. Hubless cast-iron soil pipe; service weight; hubless cast- iron soil pipe fittings, hubless joints with cast iron bolted couplings and neoprene gasket, or stainless steel (minimum) four band no-hub Husky bands.

6. Above Ground Rainwater Piping:

    a. Cast-iron, hub-and-spigot soil pipe; service weight; cast-iron, hub-and-spigot soil pipe fitting, compression gasket joints.

    b. Hubless cast-iron soil pipe; service weight; hubless cast-iron soil pipe fittings, Cast iron waste lines to be stainless steel (minimum) four band no-hub Husky.

c. Galvanized steel pipe; schedule 40; class 125, black cast- iron fittings, drainage pattern, screwed joints.

7. Underground Storm Drain Piping:

a. Cast-iron hub-and-spigot soil pipe; service weight; cast- iron hub-and-spigot soil pipe fittings, compression gasket joints.

b. Hubless cast-iron soil pipe; service weight; hubless cast-iron soil pipe fittings, hubless joints with cast iron bolted couplings and neoprene gasket, or stainless steel (minimum) four band no-hub Husky bands.

8. Underground Cold Water Below Building: Soft copper type "L" to ¾" pipe size and smaller with no joints underground. To be used for trap primers and where otherwise noted.

9. Gas Pipe:

a. Schedule 40 black steel with malleable iron screwed fittings above grade; welded below grade with Class 150 welding fittings. Connect to each item of gas-fired equipment with drip leg, and valve. Provide flex connection in approved sizes, where applicable.

b. Gas piping aboveground to 18" below ground: Schedule 40 black steel with beleved ends for welding, with Class 150 welding fittings. Mitering to form elbows or tees will not be permitted, where branch tee connections of welded piping are required Bonney "Weldolet" fittings may be used, if the branch is one-half of the diameter of the main or less. Provide gas service shut-off vlave on downstream side of meter and at entry to each building conspicuously marked "GAS" with sign.

c. Gas piping underground: PLEXCO PE2406 polyethylene gas distribution pipe ASTM D2513 and ASTM D2683 fittings with fusion welded joints. Pipe shall be labeled for NATURAL GAS in accordance with CPC.

2.3 BASIC VALVES:

A. Provide valves complying with Division 23 Basic Mechanical Materials and Methods sections, in accordance with the following listing:

1. Sectional Valves:

a. 2 inches and Smaller: ball valves

b. 2-1/2 inches and Larger: butterfly valves

2. Shutoff Valves:

a. 2 inches and Smaller: ball valves, only.

b. 2-1/2 inches and Larger: Butterfly valves, only.

3. Drain Valves:

a. 2 inches and Smaller: ball valves

b. 2-1/2 inches and Larger: gate valves

c. Hose bids are not to be used as drain valves on low point drains, equipment, etc.

4. Check Valves:

a. All Sizes: Swing check valves or in-line spring loaded check valves.

5. Balance Valves:

a. Balancing valves to be Armstrong, Victaulic, ITT Circuit Setters, or equal. Valve shall provide multi-turn, 360 degree adjustment with a micrometer type indicator located on valve hand wheel. Valve handwheel shall have hidden memory feature which will provide a means for locking the valve in position after the system has been balanced.

2.4 HOSE BIBBS:

A. Where located on interior walls: Polished bronze body, chrome plated, renewable composition disc, tee handle, 3/4-inch hose outlet with non removable vacuum breaker.

B. Where located on exterior walls: Rough bronze body, chrome plated, renewable composition disc, tee handle, 3/4-inch hose outlet with non removable non-freeze vacuum breaker.

C. Manufacturer: Watts Regulator Company, Acorn, Woodford Manufacturing Company, or equal.

D. Hose bibs to have upstream shut off valve to repair or replace hose bib at branch line serving hose bib only.

2.5 WALL HYDRANTS:

A. Recessed Wall Hydrants: Cast-bronze box hydrant, nickel bronze face, tee handle key, bronze casing, length to suit wall thickness, hinged locking cover, 3/4-inch inlet, hose outlet with non-removable vacuum breaker.

B. Manufacturer: Smith (Jay R.) Manufacturing Company, Josam Manufacturing Company, Zurn Industries Inc., Hydro mechanics Division, or equal.

2.6 BACKFLOW PREVENTERS:

A. Provide reduced-pressure principle backflow preventers consisting of assembly, including shutoff valves on inlet and outlet, and strainer on inlet, Ames, Wilkins, or equal, no known equal. Backflow preventers shall include test cocks, and pressure- differential relief valve located between two positive seating check valves. Construct in accordance with ASSE Standard 1013.

1. Install according to A.W.W.A. standards & Specs, 9th Edition.

2. Install and test according to CPC Current Edition.

3. CA Code of Regulations, Title 17-Public Health.

4. CA Code of Regulations, Title 24-Plumbing Code

5. Strainers upstream of devices w/union, w/minimum 3/4" blowdown ball valve.

6. Install no higher than 5' above finished floor, 12" min, from floor, 12" min from wall.

7. Insulate all exterior devices.

8. Backflow devices at service connection to buildings, backflow devices at equipment for makeup water, shall be provided with bypass (parallel) having a matching type of backflow device (same size, model). This bypass shall allow for testing and repairs of the backflow devices while preventing the interruption of service to building or equipment.

9. Backflow devices inside buildings shall be equipped with air gap fittings. Pipe shall drain to the exterior of the building full size of air gap fitting (or larger as recommended by manufacturer).

10. All backflow assemblies on new installations, retrofits, relocated assemblies, or repaired assemblies shall be tested when they are put back into service.

B. Vacuum Breakers:

C. Manufacturer: Febco, Wilkins, Zurn, or equal, no known equal.

2.7 RELIEF VALVES:

A. Provide relief valves as indicated, of size and capacity as selected by Contractor for proper relieving capacity, in accordance with ASME Boiler and Pressure Vessel Code.

B. Combined Pressure-Temperature Relief Valves: Bronze body, test lever, thermostat, complying with ANSI A21.22 listing requirements for temperature discharge capacity. Provide temperature relief at 210 degrees F, and pressure relief at 150 psi. Rating shall be in accordance with AGA listing.

C. Manufacturer: Watts Regulator Company, Cash (A.W.) Valve Manufacturing Corporation, Zurn Industries, Inc., Wilkins-Regulator Division, or equal.

2.8 TRAP PRIMER:

A. Provide trap primers as indicated 1/2-inch size, with built-in air gap and 1/2-inch shut-off valve.

1. Where one trap primer will be used for more than one trap, provide a distribution unit with feeder piping for a maximum of four traps.

B. Manufacturers: T.R. Precision Products, J. R. Smith, or equal

2.9 CLEANOUTS:

A. General: Cleanouts of same diameter as pipe shall be installed in all horizontal soil and waste lines where indicated at all points of change in direction. Cleanouts shall be located not less than 18 inches from building construction so as to provide sufficient space for rodding. End of line COs to be wall COs above floor rim of fixtures. No cleanouts are allowed in ceiling areas. Cleanouts shall be Zurn as indicated below or equal. Manufactures: Zurn, J. R. Smith, or equal.

1. Wall cleanouts instead of floor cleanouts above flood rim where battery of fixtures exists (water closets, clinic sinks, etc.)

2. All sinks shall be provided with a cleanout at the sink location, installed on the riser below the trap arm.

3. All urinals shall be provided with a wall cleanout. Handicapped urinals may have cleanout above urinal.

B. Cleanouts shall have cast iron ferrules and bronze plugs.

C. Cleanouts extending to floor level shall be provided with membrane flange and clamping collar, bronze raised head plug, and nonslip scoriated top.

1. Cleanouts in cast-iron soil or waste lines: Zurn Z-1440A, or equal.

2. Cleanouts in walls: Zurn Z-1445-1 with stainless steel access cover, or equal.

3. Cleanouts on exterior of building: Zurn Z-1440, or equal.

a. Provide stainless steel cover and vandalproof screw where located in wall. Zurn Z-1445-1, or equal.

b. Where located at grade, provide 18- by 18- by 6-inch concrete pad and Zurn Z-1474 heavy duty cover. Provide Z-1440 cleanout, or equal.

4. Cleanouts in floor (concrete): Zurn ZN-1400 or equal.

5. Cleanouts in floor (terrazzo): Zurn Z-1400-10 or equal.

6. Cleanouts in floor (carpet): Zurn ZN-1400-14 or equal.

7. Cleanouts in floor (vinyl tile): Zurn ZN-1400-4 or equal.

2.10 FLOOR DRAINS:

A. Provide floor drains of size as indicated on Drawings, and type, including features, as specified herein, or equal, no known equal. Provide flashing ring and clamp at floors with waterproofing membrane. Set top of drain slightly below floor to insure drainage. Install vented P- trap below each drain.

1. General Service Floor Drains: Zurn Z-415-B or equal.

2. General Service Floor Drains: Zurn Z-415-S or equal. (ceramic tile floors)

3. Floor Drains in Mechanical Rooms: Zurn Z-550 with C.I Bucket or equal.

4. Area Drains: Zurn Z-550-Y (C.I.) or equal.

5. Floor Sinks in Mechanical Areas: Zurn Z-611 half grate or equal.

6. Floor Sinks in Boiler Room: Zurn Z-543 or equal.

B. Floor drains: Zurn, J. R. Smith, Jonespec, or equal

2.11 ROOF DRAINS:

A. Provide roof drains and overflow roof drains of size as indicated on Drawings, and type, including features, as specified herein. Locate roof drains per architectural roof plans. All roof drain domes shall be cast-iron. Roof drains shall be cast iron also. Roof drains and overflow drains, install gravel stops to keep roof gravel at least 24" from edge of drain to edge of the gravel stop in all directions.

1. Roof Drains (membrane roofs): Zurn Z-100 ERC with C.I. Dome or equal.

2. Overflow Roof Drains: Zurn Z-100-89 ERC with C. I. dome and two inch high water level regulator or equal.

3. Deck Drains: Zurn Z-415-BL, with extension adaptor where required for proper elevation or equal.

4. Scupper Drains: J.R. Smith 9785-BW-U or equal.

B. Manufacturers: Zurn, J. R. Smith, Jonespec, or equal

PART 3 EXECUTION

3.1 INSPECTION:

A. Examine areas and conditions under which plumbing piping systems are to be installed. Do not proceed with Work until unsatisfactory conditions have been corrected in manner acceptable to Contractor.

3.2 INSTALLATION OF WATER PIPING:

A. Run all water piping generally level, free of traps or unnecessary bends, arranged to conform to the building requirements, and to suit clearance for other mechanical work such as ducts, flues, conduits, and other work. No piping shall be installed so as to cause unusual noise from the flow of water therein under normal conditions.

B. Use water hammer arrestor (WHA-1 as shown on plans) at fixtures. Where fixtures are located in a row or battery, the water supply header may be continued full size of the branch outlet water hammer arrestors to be accessible through access door or lift out ceiling.

1. Properly sized, bellows-type air chambers. All materials used in construction of bellows type air chambers must be stainless steel IPS threaded construction.

2. Shock trolls (water hammer arrestors) shall be located at fast acting valves, i.e. flush valves, solenoid valves. Locate as shown on drawings. Where not shown on drawings locate in accordance with manufacturer's recommendation.

C. Install piping on room side of building insulation.

D. Water lines shall not be installed in the same trench with non- metallic sewer lines unless the bottom of the water pipe at all points is at least 12 inches above the top of the sewer line and the water line is placed on a solid shelf excavated at one side of the common trench.

1. Where water and waste piping cross, the pipes shall have no fittings within 10 feet of the crossing, and the water line shall be run above the waste line. Comply with any local codes or requirements.

3.3 INSTALLATION OF SANITARY DRAINAGE SYSTEMS:

A. Sewer Piping: Run all horizontal sanitary drain piping inside of building on a uniform grade of not less than 1/4-inch per foot. Unless otherwise noted on the plans, piping shall have invert elevations as shown and slope uniformly between given elevations.

B. Storm Drain Piping: Run all horizontal storm drain piping inside of building on a uniform grade of not less than 1/4-inch per foot. Unless otherwise noted on the plans, piping shall have invert elevations as shown and slope uniformly between given elevations.

C. Run all drainage piping as straight as possible and provide easy bends with long turns; make all offsets at an angle of 45 degrees or less.

D. Grade all vent piping so as to free itself quickly of any water condensation.

1. Where possible, join groups of vent risers together with one enlarged outlet through roof.

E. Install drip pan under storm drain piping, sanitary drain piping, and vent piping that must be run over kitchen areas.

1. Drip pans located directly below hydronic piping or similar sources of possible damage shall be provided to protect electrical and electronic work which is sensitive to moisture. Pans shall be 2" deep, extending a minimum of 6" beyond each edge of overhead piping and lengthwise 18" beyond each side of electrical work to be protected. Fabricate pans of either 20-gauge copper or 16-gauge zinc-coated steel, with rolled edges and reinforced for proper support, soldered fully watertight, and fitted with a 3/4" copper drain pipe property discharged.

2. Mechanical work drip pans shall be provided for roof and overflow drain, and sanitary soil and waste piping located above food preparation centers, food service facilities, food storage areas, and other critical areas to protect the areas below. Drip pans shall be constructed as specified for electrical work pans in E1 above.

F. Hubless Cast-Iron Joints: Comply with coupling manufacturer's installation instructions and in accordance with CISPI Pamphlet No. 100, latest edition.

3.4 INSTALLATION OF DRAINAGE PIPING PRODUCTS:

A. Cleanouts: Install in piping as indicated, as required by Uniform Plumbing Code, at each change in direction of piping greater than 45 degrees, at minimum intervals of 50 feet for piping 4 inches and smaller and 100 feet for larger piping, and at base of each conductor.

1. Cleanouts in ceilings will not be accepted as to be serving fixture or counted as a drain line cleanout.

2. Wall cleanouts instead of floor cleanouts above flood rim where battery of fixtures exists (water closets, clinic sinks, etc.)

3. All sinks shall be provided with a cleanout at the sink locations, installed on the riser below the trap arm. All sinks means the entire project. Lavatories are not required to have wall cleanouts.

4. All urinals shall be provided with a wall cleanout at the urinal location.

B. Flashing Flanges: Install flashing flange and clamping device with each cleanout passing through waterproof membrane.

C. Install drains in accordance with manufacturer's written instructions and in locations indicated. Install floor drains and floor sinks with lip of drain slightly below finished floor to ensure drainage. Coordinate with other Contractors to ensure that floor slopes to drain.

3.5 INSTALLATION OF ROOF DRAINS:

A. Install roof drains and overflow roof drains in accordance with manufacturer's written instructions and in locations indicated.

B. Coordinate with roofing as necessary to interface roof drains with roofing work.

C. At gravel-surfaced roofs, hold gravel minimum 24" from center of drain and overflow drain to edge of stop, in all directions.

3.6 INSTALLATION OF VALVES:

A. Install valves as indicated on Drawings and in the following locations:

1. Shutoff Valves: Install on inlet of each plumbing equipment item, and on inlet of each plumbing fixture, and elsewhere as indicated.

a. Shutoff valves in ceilings, walls, floors, shall be accessible thru access doors, ceiling liftout tiles (finished ceiling) within arms reach, 24" max reach from opening to valve handle.

2. Drain Valves: Install on each plumbing equipment item located to completely drain equipment for service or repair. Install at base of each riser, at base of

each rise or drop in piping system, and elsewhere indicated or required to completely drain potable water system.

a. Install low point drains on all piping at the lowest point in the system to enable the total drain down of the system for the purpose of repairs, retrofits or remodels. Lines from 4" thru 10" pipe shall have a 2" low point drain and 2" SOV. Lines 2" thru 3-1/2" shall have a 1-1/2" low point drains and 1-1/2" SOV. Smaller size lines use line size low point drains and SOV's. Include plus in end of shutoff valves.

b. Hose bibs are not to be used as drain vales on low point drains, equipment, etc.

3.7 INSTALLATION OF BACKFLOW PREVENTERS:

A. Install backflow preventers where indicated on Drawings. Where drain pans are shown on the Drawings, pipe drain pan outlet to nearest floor drain.

3.8 INSTALLATION OF TRAP PRIMERS:

A. Install as indicated in manufacturers printed literature, with 1/2-inch, type-L, soft copper piping to trap primer connection on floor drains and floor sinks where indicated on Drawings.

3.9 EQUIPMENT CONNECTIONS:

A. Piping Runouts to Fixtures: Provide hot and cold water piping runouts to fixtures of sizes indicated.

B. Mechanical Equipment Connections: Connect hot and cold water piping system and gas piping system to mechanical equipment as indicated, and provide with shutoff valve and union for each connection.

1. All plumbing fixtures with hot water to be connected to a hot water return system.

2. Hot water return connections at fixtures shall be made within 6' developed length of the fixture or equipment.

3. Supply water piping to fixtures & equipment shall be a minimum of 3/4" pipe size, no 1/2" piping allowed.

3.10 SPARE PARTS:

A. Furnish to Owner, with receipt, one valve key for each key operated hydrant, bibb, or faucet installed.

3.11 DOMESTIC WATER SYSTEM STERILIZATION:

A. Close open ends of water piping each day to prevent contamination or foreign matter entering pipe during construction. Thoroughly flush out piping to remove any dirt or foreign matter.

B. After flushing, sterilize entire water system from new point or points of connection before being turned over to Owner for use. Slowly fill system with water and add chlorine

chemical agent to produce a minimum of 50 PPM of chlorine in entering water. Under current interpretation an Agricultural pest control business license is required to perform water chlorination/disinfection for hire on potable water lines. The most appropriate pest control category possessed by the qualified applicator licensee to supervise the pest control operations of that type of business is Category A - Residential, Industrial and Institutional Pest Control. This license requirement includes all underground piping and all piping in buildings, new remodel and retrofit systems.

C. Retain treated water in pipe for a minimum of twenty-four hours. Should chlorine residual at pipe extremities be less than 50 PPM at this time, pipe shall be re-chlorinated.

D. After chlorination, flush lines of chlorinated water and refill from domestic supply. Continue flushing until residual chlorine is not greater than 0.2 PPM at all pipe extremities.

E. Testing agencies shall be hired by contractor to certify all systems.

END OF SECTION

SECTION 23 21 13.13

UNDERGROUND HYDRONIC PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Plastic pipe and fittings.
2. Transition fitting.
3. Pre-insulated piping.

1.3 PERFORMANCE REQUIREMENTS

A. Provide components and installation capable of producing hydronic piping systems with the following minimum working-pressure ratings:

1. Hot-Water Piping: 100 psig (690 kPa) at 200 deg F (93 deg C).
2. Chilled-Water Piping: 100 psig (690 kPa) at 200 deg F (93 deg C).

1.4 SUBMITTALS

A. Product Data: For the following:

1. Hydronic piping.

B. Shop Drawings: For underground hydronic piping. Signed and sealed by a Professional Engineer. Contractor is responsible for all rises, drops offsets, and changes in elevation.

1. Show pipe sizes, locations, and elevations. Show piping in trench, conduit, and cased pipe with details showing clearances between piping, and show insulation thickness.

C. Profile Drawings: Show system piping in elevation. Draw profiles at horizontal scale of not less than 1 inch equals 50 feet (1:500) and at vertical scale of not less than 1 inch

equals 5 feet (1:50). Indicate manholes and piping. Show types, sizes, materials, and elevations of other utilities crossing hydronic piping.

1. Each system layout shall be computer analyzed by the piping system manufacturer to determine stress on the service pipe and anticipated thermal movement of the service pipe. The system design shall be in strict conformance with ANS1 B31.1, latest edition.

D. Qualification Data: For qualified Installer.

E. Welding certificates.

F. Material Test Reports: For cased piping.

G. Source quality-control reports.

H. Field quality-control reports.

1.5 QUALITY ASSURANCE

A. Fiberglass Pipe and Fitting Installers: Installers of RTRF and RTRP shall be certified by manufacturer of pipes and fittings as having been trained and qualified to join fiberglass piping with manufacturer-recommended adhesive.

B. Certify that each installer has been trained by the manufacturer’s representative for fusion piping installation.

C. ASME Compliance: Comply with ASME B31.9, "Building Services Piping," for materials, products, and installation.

PART 2 - PRODUCTS

2.1 PLATIC PIPING AND FITTINGS

A. Polypropylene (Pp-R) Pipe and Fittings for Water Distribution and Water Service

1. Pipe shall be manufactured from a PP-R resin (Fusiolen) meeting the short-term properties and long-term strength requirements of ASTM F 2389. The pipe shall contain no rework or recycled materials except that generated in the manufacturer's own plant from resin of the same specification from the same raw material. All pipe shall be made in an extrusion process. Domestic hot water shall contain a fiber layer (faser) to restrict thermal expansion. All pipe shall comply with the rated pressure requirements of ASTM F 2389. All pipe shall be certified by NSF International as complying with NSF 14, NSF 61, and ASTM F 2389 or CSA B137.11.

2. Pipe shall be Aquatherm® Green Pipe®, Green Pipe® MF (Faser®), Blue Pipe® MF®, Blue Pipe PP-RCT® or Lilac® Pipe available from Aquatherm, NA. Piping specifications and ordering information are available at www.aquatherm.com.

3. Fittings shall be manufactured from a PP-R resin (Fusiolen) meeting the short-term properties and long-term strength requirements of ASTM F 2389. The fittings shall contain no rework or recycled materials except that generated in the manufacturer's own plant from resin of the same specification from the same raw material. All fittings shall be certified by NSF International as complying with NSF 14, NSF 61, and ASTM F 2389 or CSA B137.11.

4. Polypropylene Fittings: socket fusion, butt fusion, electrofusion, or fusion outlet fittings shall be used for fusion weld joints between pipe and fittings.

5. Mechanical fittings and transition fittings shall be used where transitions are made to other piping materials or to valves and appurtenances.

6. Polypropylene pipe shall not be threaded. Threaded transition fittings per ASTM F 2389 shall be used where a threaded connection is required.

7. Polypropylene pipe used for hot water distribution shall include a fiberglass-reinforced layer to reduce thermal expansion/contraction.

B. Plastic, Pipe-Flange Gasket, Bolts, and Nuts: Type and material recommended by piping system manufacturer unless otherwise indicated.

C. Manholes: Black steel with lifting eyes.

1. Finish: Spray-applied urethane, minimum 30 mils (0.75 mm) thick.

2. Access: 30-inch- (750-mm-) diameter waterproof cover with gasket, ladder, and two 6-inch (150-mm) vents, one high and one low, extending above grade with rain caps.

3. Conduit Stub-Outs and Seals: Welded steel with drain and vent openings.

4. Sump: 12 inches (300 mm) in diameter, 12 inches (300 mm) deep.

5. Floatation Anchor: Oversized bottom keyed into concrete base.

D. Source Quality Control: Factory test the carrier pipe to 150 percent of the operating pressure of system. Furnish test certificates.

E. Contractor will be required to have additional 15 percent of carrier straight piping, fittings, casing, casing accessories, expansion pads etc. and labor for installation for unforeseen condition and change in piping routing. Contractor shall show additional material (15%) will be maintained on hand as part of shop drawing submittal. Additional material if not used will be given to facility after completion of project.

2.2 TRANSITION FITTINGS

A. Plastic-to-Metal Transition Fittings shall be the following:

1. PP-R one-piece fitting with threaded stainless steel, brass, or copper insert and one PP-R fusion weld joint end.

2.3 INSULATIONS

A. Pre-insulated Pipe

1. Pre-insulated pipe shall be a complete system of factory pre-insulated polypropylene piping for the specified service.

2. Carrier pipe shall be polypropylene PP-R by Aquatherm, conforming to ASTM F-2389 as previously specified herein.

3. Insulation shall be polyurethane foam either spray applied or injected with one shot into the annular space between carrier pipe and jacket with a minimum thickness of one inch. Insulation shall be rigid, 90-95% closed cell polyurethane with a 2.0 to 3.0 pounds per cubic foot density and coefficient of thermal conductivity (K- Factor) of 0.16 and shall conform to ASTM C-591.

4. Jacketing material shall be extruded, black, high density polyethylene (HDPE), having a minimum wall thickness of 100 mils for jacket sizes less than or equal to 12”, and 125 mils for jacket sizes larger than 12” to 24”.

5. Manufacturers: Subject to compliance with requirements:

a. Aquatherm TI Pipe
b. Perma-Pipe, Inc.
c. Thermacor Process, L.P.

PART 3 - EXECUTION

3.1 EARTHWORK

A. See Division 31 Section "Earth Work" for excavating, trenching, and backfilling.

3.2 PIPING APPLICATION

A. Hot-Water Heating Piping:

1. NPS 2 (DN 50) and smaller shall be the following:

a. Polypropylene (PP-R), (PP-RCT) ASTM F 2389, pipe and socket fusion, or fusion outlet fittings.

b. Pre-insulated piping.

2. NPS 2-1/2 (DN 65) and larger shall be the following:

a. Polypropylene (PP-R), (PP-RCT) ATM F 2389, pipe and socket fusion, butt fusion, or fusion outlet fittings.

b. Pre-insulated piping.

3. Cased piping with polyurethane carrier-pipe insulation.

a. Piping Insulation Thickness: 2 inches (50 mm).

B. Chilled-Water Piping:

1. NPS 2 (DN 50) and smaller shall be the following:

a. Polypropylene (PP-R), (PP-RCT) ASTM F 2389, pipe and socket fusion, or fusion outlet fittings.

2. NPS 2-1/2 (DN 65) and larger shall be the following:

a. Polypropylene (PP-R), (PP-RCT) ASTM F 2389, pipe and socket fusion, butt fusion, or fusion outlet fittings.

3. Cased piping with polyurethane carrier-pipe insulation.

a. Piping Insulation Thickness: 1 inch (25 mm).

3.3 PIPING INSTALLATION

A. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicate piping locations and arrangements if such were used to size pipe and calculate friction loss, expansion, pump sizing, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.

B. Installers shall be trained and certified to install the pipe per the manufacturer's guidelines. Contact your local Aquatherm representative for training.

C. Remove standing water in the bottom of trench.

D. Do not backfill piping trench until field quality-control testing has been completed and results approved.

E. Install piping at uniform grade of 0.2 percent. Install drains, consisting of a tee fitting, NPS 3/4 (DN 20) ball valve, and short NPS 3/4 (DN 20) threaded nipple with cap, at low points and elsewhere as required for system drainage. Install manual air vents at high points.

F. In conduits, install drain valves at low points and manual air vents at high points.

G. Install components with pressure rating equal to or greater than system operating pressure.

H. Install piping free of sags and bends.

I. Install fittings for changes in direction and branch connections.

J. See Division 23 Section "Sleeves and Sleeve Seals for HVAC Piping" for sleeves and mechanical sleeve seals through exterior building walls.

K. Thrust blocks shall not be required with PP-R piping.

L. Expansion loops shall not be required for direct buried underground PP-R piping.

3.4 JOINT CONSTRUCTION

A. Join pipe and fittings according to the following requirements and Division 23 Sections specifying piping systems.

B. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.

C. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.

D. Fusion Joints: Fusion join polypropylene pipe in accordance with ASTM D2657, ASTM F 2389, and the manufacturer’s instructions.

E. Flanged Joints: Select appropriate gasket material, size, type, and thickness for service application. Install gasket concentrically positioned. Use suitable lubricants on bolt threads.

F. Conduit and Cased Piping Joints: Assemble sections and finish joints with pourable or split insulation and exterior jacket sleeve, and apply shrink-wrap seals.

3.5 IDENTIFICATION

A. Install continuous plastic underground warning tapes during back filling of trenches for underground hydronic piping. Locate tapes 6 to 8 inches (150 to 200 mm) below finished grade, directly over piping. See Division 31 Section "Earth Moving" for warning-tape materials and devices and their installation.

3.6 FIELD QUALITY CONTROL

A. Testing Agency: Engage a qualified testing agency to perform tests and inspections.

B. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect, test, and adjust components, assemblies, and equipment installations, including connections.

C. Perform tests and inspections.

1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.

D. Tests and Inspections:

1. Prepare hydronic piping for testing according to ASME B31.9 and as follows:

a. Leave joints, including welds, uninsulated and exposed for examination during test.

b. Fill system with water. Where there is risk of freezing, air or a safe, compatible liquid may be used.

c. Use vents installed at high points to release trapped air while filling system.

2. Test hydronic piping as follows:

a. Subject hydronic piping to hydrostatic test pressure that is not less than 1.5 times the design pressure.

b. After hydrostatic test pressure has been applied for 10 minutes, examine joints for leakage. Remake leaking joints using new materials and repeat hydrostatic test until no leaks exist.

3. Test conduit as follows:

a. Seal vents and drains and subject conduit to 15 psig (105 kPa) for four hours with no loss of pressure. Repair leaks and retest as required.

E. Prepare test and inspection reports.

END OF SECTION

SECTION 25 1523

GRAPHICS

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes the general requirements for graphic generation.

B. Related Sections:
   1. 25 1223 Client-Server Information/Database Integration
   2. 25 1500 Building Control Systems Server Software

1.2 REFERENCES

A. Refer to 25 0000 Integrated Automation

1.3 DEFINITIONS

A. Refer to 25 0000 Integrated Automation

1.4 SYSTEM DESCRIPTION

A. Provide software and labor for graphical representation of all systems specified.

B. Show all hardware points, setpoints, integrated points as shown in drawings and as needed to properly control and monitor systems.

C. Los Rios CCD utilizes a production/development environment. Graphics are implemented on the development system (EBI-CON), and migrated to the production system(s) after Los Rios CCD commissioning agent review/approval. Migration shall occur within 30 days of commissioning agent approval.

D. When the project is migrated to the production environment, Display Tables 1 through 7 shall be integrated into the production environment Display Tables, Critical Points (see DT-10) shall be added to EBI Main Menu graphic, and the project AHUs shall be added to the following automated reports:
   1. RPT-2.1 – Run Condition Overrides
   2. RPT-3.1 – OSA Damper Minimum Limit Parameters
   3. RPT-3.2 – Extreme Weather Thresholds
   4. RPT-5.1 – Runaway AHUs
   5. RPT-7.1 – Rogue Zones
   6. RPT-9.1 – Unoccupied Space Temperature Limits

1.5 SUBMITTALS

A. Los Rios CCD has developed campus standards including detailed graphics templates. Contact Los Rios CCD for latest examples.

B. Submit for Review:
   1. Each graphic page shall be submitted for review and requires approval by Los Rios CCD.

1.6 QUALITY ASSURANCE

A. Decimal precision. Unless indicated otherwise, point values shall use the following decimal precision. Temperatures and temperature setpoints: 1 decimal place. Airflow (CFM) and airflow setpoints: no decimal places. Water flow (GPM) and water flow setpoints: 1 decimal place. Duct static pressure (Inches Water Column) and duct static pressure setpoints: 2 decimal places. Building static pressure (Inches Water Column) and building static pressure setpoints: 3 decimal places. Humidity (%RH) and humidity setpoints: 1 decimal place.

B. All valve and damper output positions should be denoted as %OPEN

C. Provide consistency in measurement units.

D. All graphics shall conform to the Los Rios CCD Design Guidelines.

E. Vendor names, logos, hyperlinks to vendor site, or other vendor identification or promotion, are not permitted on graphics.

F. Los Rios CCD shall furnish sample Standard Graphics to ensure consistency of look and feel.

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1. Screen captures of example Los Rios CCD Standard Graphics are depicted below.

PART 2 - PRODUCTS

2.1 NOT USED

PART 3 - EXECUTION

3.1 GRAPHIC GENERATION

A. Each graphic shall include all control points, devices and user adjustable setpoints/parameters associated with the system. All points, as specified in point list table, shall be displayed and adjustable in graphics.

B. Graphic Pages Required.

1. At a minimum, all the example graphics depicted below, shall be included as part of the project.
2. Additional graphic pages may be required for a specific project (e.g. Exhaust fan, split DX fan coils and other building HVAC systems etc.)

3.2 COMMON FOR ALL GRAPHICS

A. Building Footer:

Footer buttons shall vary by building depending on what mechanical equipment, etc. is being controlled in the building. The following is a typical example:

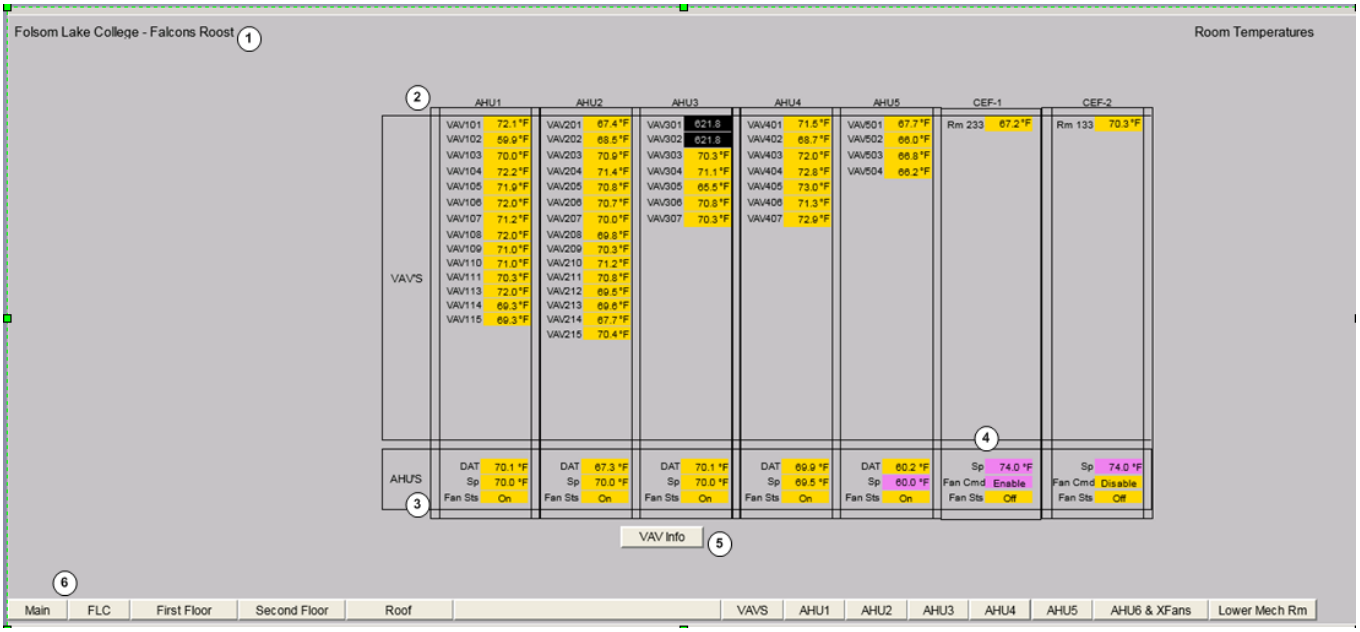
1. Label: Main; Link: EBI Main Menu Display
2. Label: FLC; Link: Main Campus Menu Display
3. Label: First Floor; Link: First Floor Floorplan Display

4. Label: Second Floor; Link: Second Floor Floorplan Display
5. Label: Roof; Link: Roof Floorplan Display
6. Label: VAVs; Link: Building Menu Display
7. Label: AH01; Link: AH01 Schematic Display
8. Label: AH02; Link: AH02 Schematic Display

3.3 BUILDING HOME PAGE

A. The primary purpose of the building home page is to provide an Operator one place to quickly see the status of major equipment in the building and other critical, real-time information. The contents of the home page will vary by building depending on critical systems and mechanical equipment in that building. Typical systems include air handlers; building chilled water; building hot water, etc.

B. Home Page Example:

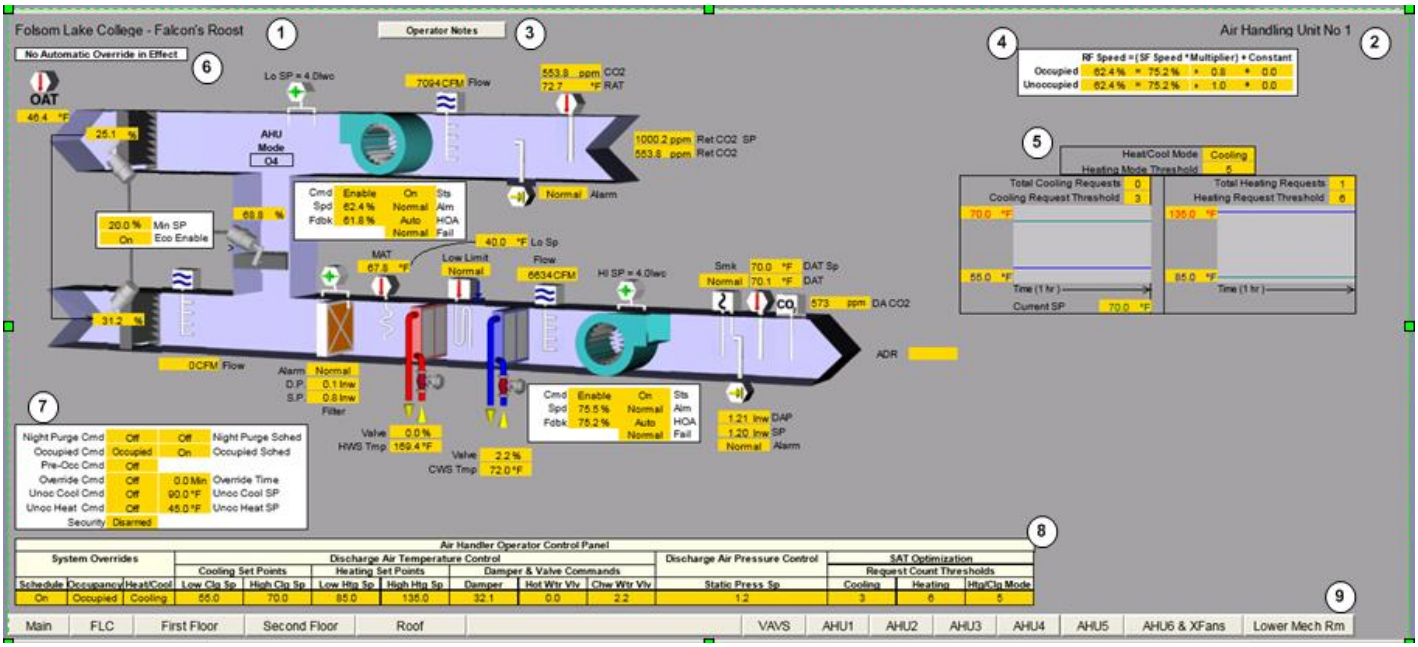


1. Text identifying Campus and Building
2. Summary of building space temperatures
3. Summary of AHU Discharge Temp, Discharge Temp Setpoint, and Supply Fan Command
4. Magenta background indicates point in Manual Mode
5. Link to building VAV information summary (DT-7)
6. Building Footer

3.4 AIR HANDLING UNIT

A. It is not feasible to convey examples of every possible permutation of air handler configuration. Specific details shall be developed on a per-project or per-building basis.

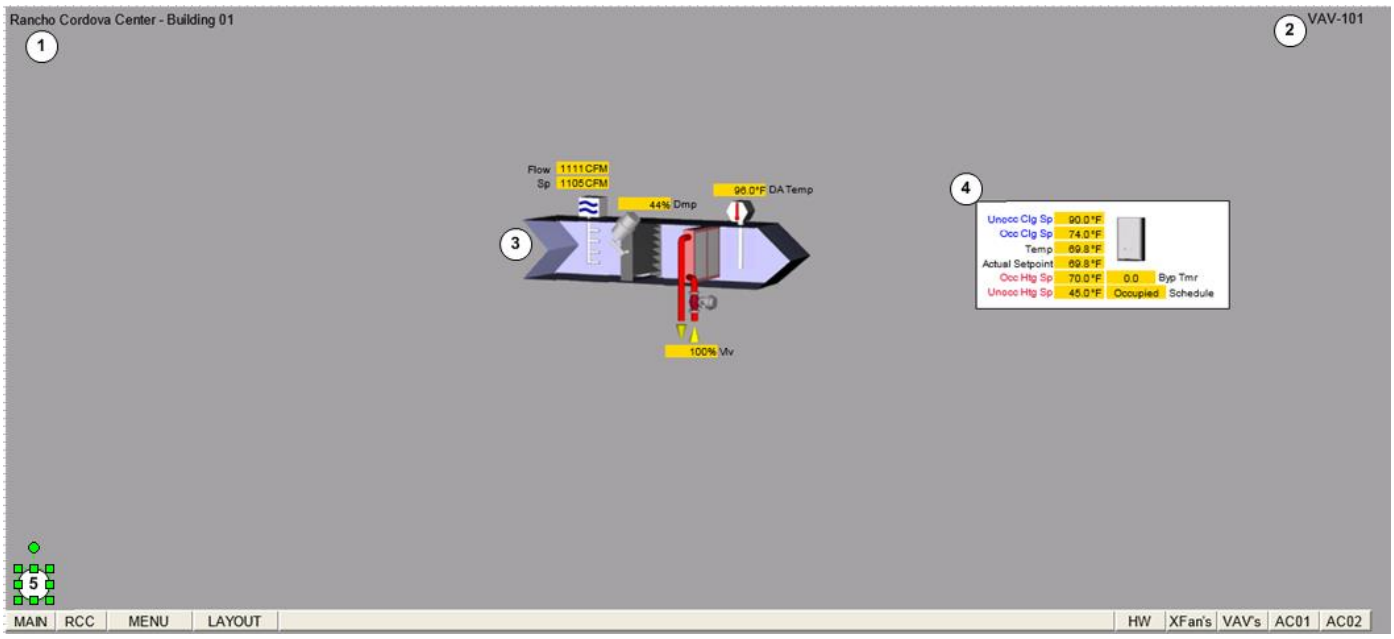
B. Typical Air Handler Graphic Page



1. Text identifying Campus and Building
2. Text Identifying AHU
3. Pushbutton opening this AHU Operating Notes text file (Notepad)
4. Summary of Return Fan Speed Control
5. Trend of AHU Discharge Air Setpoint
6. Banner indicating Automatic (weather/ADR) override status
7. Summary of AHU operating conditions
8. Operator Control Panel
9. Building Footer
10. Additional Points as required by project

3.5 VARIABLE AIR VOLUME BOX

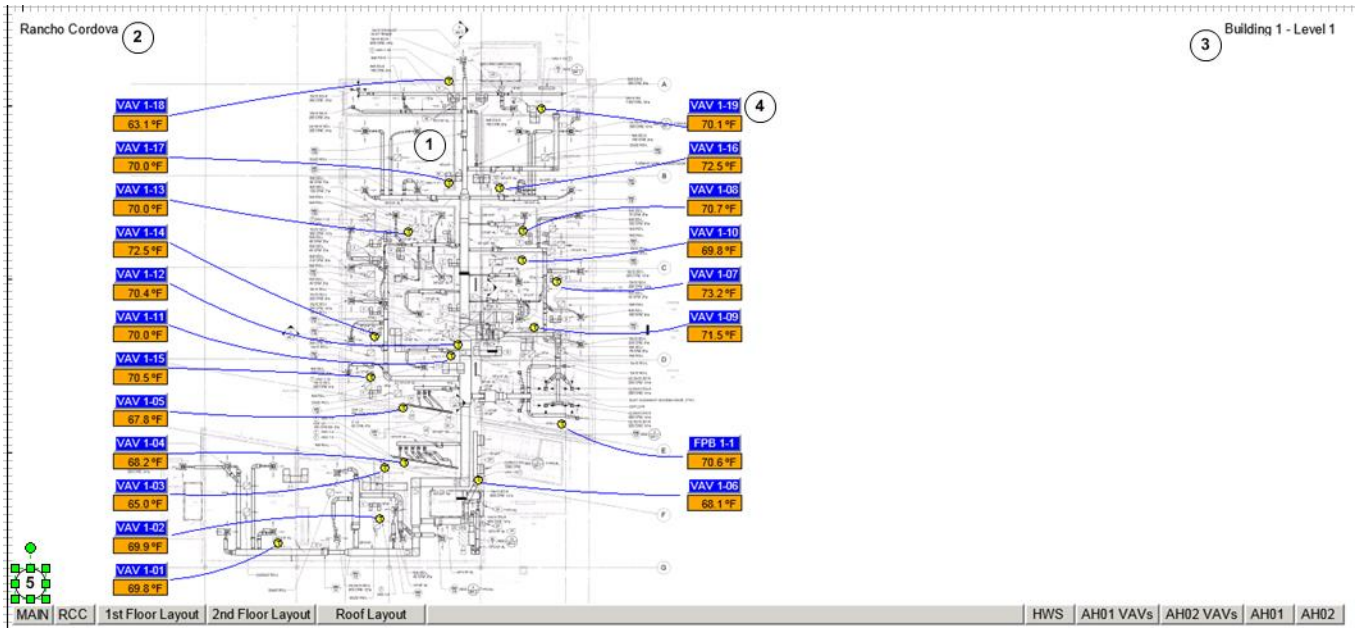
A. Example VAV Box Graphic



1. Text identifying campus and building.
2. Text identifying VAV box
3. VAV box schematic
4. Room setpoint information
5. Footer

3.6 FLOOR PLAN

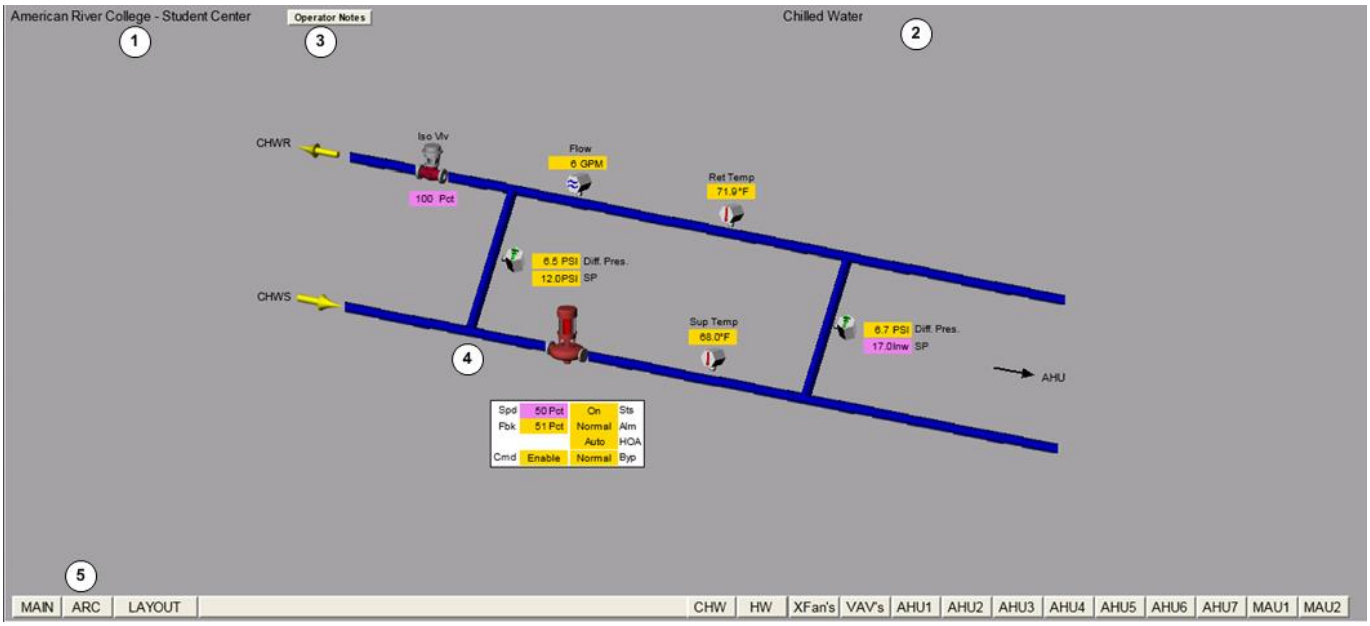
A. Example Floorplan Graphic



1. Mechanical background created from contract drawing air side mechanical floorplans.
2. Text identifying campus
3. Text identifying building and floor
4. Current room temperature and link to VAV detail graphic
5. Footer.

3.7 CHILLED WATER GRAPIC

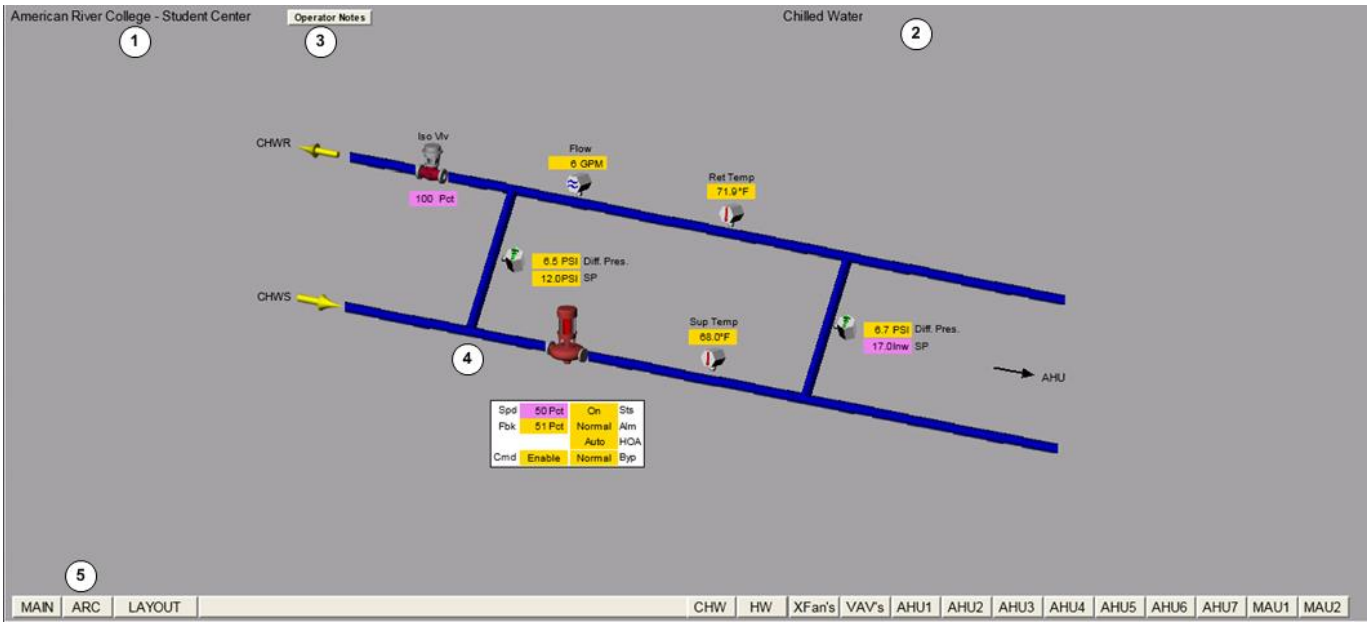
A. Example Chilled Water Graphic



1. Text identifying campus and building
2. Text identifying system type
3. Pushbutton opening this CHW system Operating Notes text file (Notepad)
4. Chilled water system schematic
5. Footer

3.8 HOT WATER GRAPIC

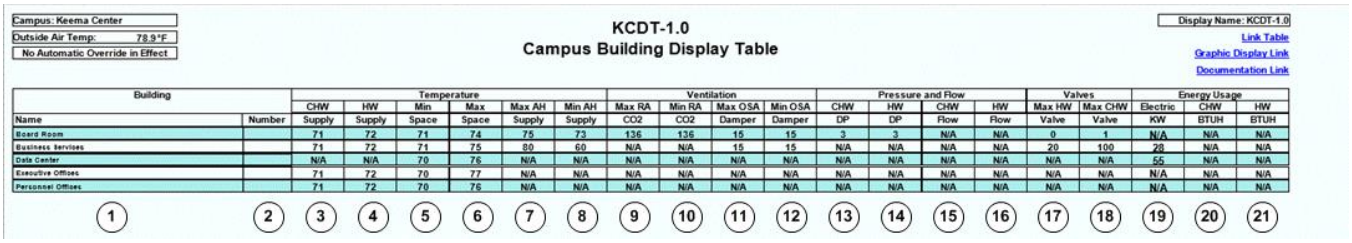
A. Example Hot Water Graphic



1. Text identifying campus and building
2. Text identifying system type
3. Pushbutton opening this HW system Operating Notes text file (Notepad)
4. Hot water system schematic
5. Footer

3.9 CAMPUS BUILDING DISPLAY TABLE (DT-1)

A. Example DT-1



Campus: Keema Center
Outside Air Temp: 78.9 °F
No Automatic Override in Effect

KCDT-1.0
Campus Building Display Table

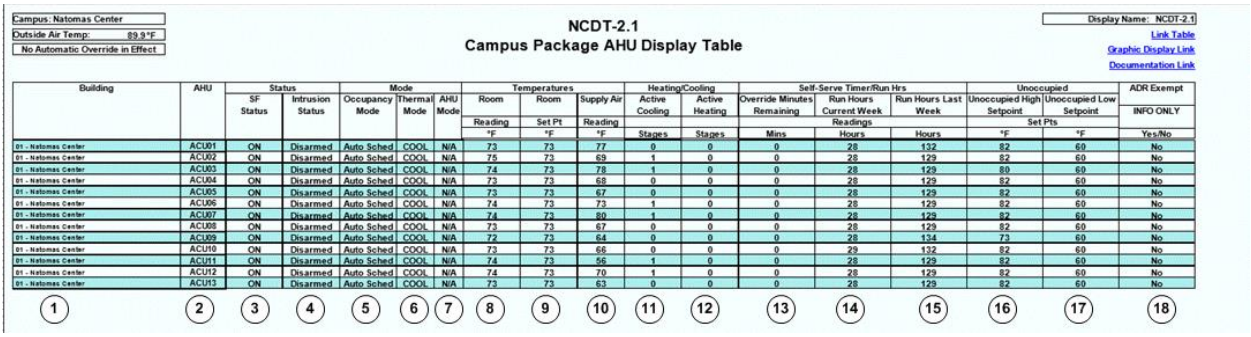
Display Name: KCDT-1.0
Link Table
Graphic Display Link
Documentation Link

Building		Temperature						Ventilation				Pressure and Flow				Valves		Energy Usage		
		CHW	HW	Min	Max	Max AH	Min AH	Max RA	Min RA	Max OSA	Min OSA	CHW	HW	CHW	HW	Max HW	Max CHW	Electric	CHW	HW
Name	Number	Supply	Supply	Space	Space	Supply	Supply	CO2	CO2	Damper	Damper	DP	DP	Flow	Flow	Valve	Valve	KW	BTUH	BTUH
Board Room		71	72	71	74	75	73	136	136	15	15	3	3	N/A	N/A	0	1	N/A	N/A	N/A
Business Services		71	72	71	75	80	60	N/A	N/A	15	15	N/A	N/A	N/A	N/A	20	100	28	N/A	N/A
Data Center		N/A	N/A	70	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	55	N/A	N/A
Executive Offices		71	72	70	77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Personnel Offices		71	72	70	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

1. Building Name
2. Building Number
3. Building chilled water supply temperature
4. Building hot water supply temperature
5. Maximum space temperature in building
6. Minimum space temperature in building
7. Maximum AHU discharge temperature in building
8. Minimum AHU discharge temperature in building
9. Maximum AHU return air CO2 in building
10. Minimum AHU return air CO2 in building
11. Maximum AHU outside air damper position in building
12. Minimum AHU outside air damper position in building
13. Building chilled water differential pressure
14. Building hot water differential pressure
15. Building chilled water flow
16. Building hot water flow
17. Maximum hot water valve position in building
18. Maximum chilled water valve position in building
19. Building kw meter reading
20. Building chilled water BTU meter reading
21. Building hot water BTU meter reading

3.10 PACKAGE AHU DISPLAY TABLE (DT-2)

A. Example DT-2



Campus: Natomas Center
Outside Air Temp: 89.9 °F
No Automatic Override in Effect

NCDT-2.1
Campus Package AHU Display Table

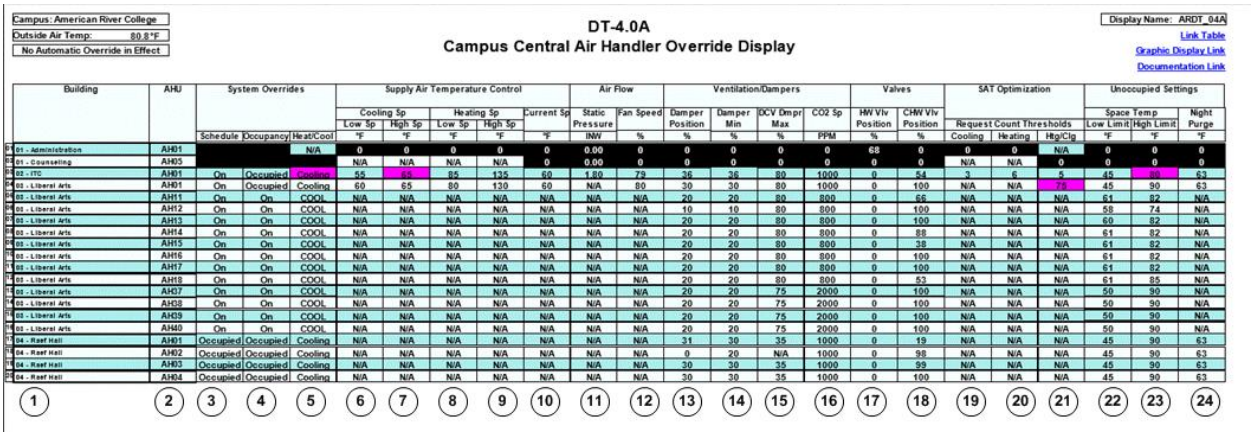
Display Name: NCDT-2.1
Link Table
Graphic Display Link
Documentation Link

Building	AHU	Status		Mode			Temperatures			Heating/Cooling		Self-Serve Timer/Run Hrs			Unoccupied		ADR Exempt
		SF Status	Intrusion Status	Occupancy Mode	Thermal Mode	AHU Mode	Room Reading	Room Set Pt	Supply Air Reading	Active Cooling	Active Heating	Override Minutes Remaining	Run Hours Current Week	Run Hours Last Week	Unoccupied High Setpoint	Unoccupied Low Setpoint	INFO ONLY
							°F	°F	°F	Stages	Stages	Mins	Hours	Hours	°F	°F	Yes/No
01 - Natomas Center	ACU01	ON	Disarmed	Auto Sched	COOL	N/A	73	73	77	0	0	0	28	132	82	60	No
01 - Natomas Center	ACU02	ON	Disarmed	Auto Sched	COOL	N/A	75	73	69	1	0	0	28	129	82	60	No
01 - Natomas Center	ACU03	ON	Disarmed	Auto Sched	COOL	N/A	74	73	78	1	0	0	28	129	80	60	No
01 - Natomas Center	ACU04	ON	Disarmed	Auto Sched	COOL	N/A	73	73	68	0	0	0	28	129	82	60	No
01 - Natomas Center	ACU05	ON	Disarmed	Auto Sched	COOL	N/A	73	73	67	0	0	0	28	129	82	60	No
01 - Natomas Center	ACU06	ON	Disarmed	Auto Sched	COOL	N/A	74	73	73	1	0	0	28	129	82	60	No
01 - Natomas Center	ACU07	ON	Disarmed	Auto Sched	COOL	N/A	74	73	80	1	0	0	28	129	82	60	No
01 - Natomas Center	ACU08	ON	Disarmed	Auto Sched	COOL	N/A	73	73	67	0	0	0	28	129	82	60	No
01 - Natomas Center	ACU09	ON	Disarmed	Auto Sched	COOL	N/A	72	73	64	0	0	0	28	134	73	60	No
01 - Natomas Center	ACU10	ON	Disarmed	Auto Sched	COOL	N/A	73	73	66	0	0	0	29	132	82	60	No
01 - Natomas Center	ACU11	ON	Disarmed	Auto Sched	COOL	N/A	74	73	56	1	0	0	28	129	82	60	No
01 - Natomas Center	ACU12	ON	Disarmed	Auto Sched	COOL	N/A	74	73	70	1	0	0	28	129	82	60	No
01 - Natomas Center	ACU13	ON	Disarmed	Auto Sched	COOL	N/A	73	73	63	0	0	0	28	129	82	60	No
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)

1. Building name
2. AHU name
3. Supply fan status
4. Intrusion system status
5. Occupancy mode
6. Thermal node
7. AHU mode
8. Room temperature
9. Room temperature setpoint
10. AHU discharge temperature
11. Active cooling stages
12. Active heating stages
13. Override minutes remaining
14. Current week run hours
15. Previous week run hours
16. High unoccupied setpoint
17. Low unoccupied setpoint
18. Is AHU ADR exempt

3.11 CAMPUS CENTRAL STATION AHU OVERRIDE DISPLAY (DT-4)

A. Example DT-4



Campus: American River College
Outside Air Temp: 80.8 °F
No Automatic Override in Effect

DT-4.0A
Campus Central Air Handler Override Display

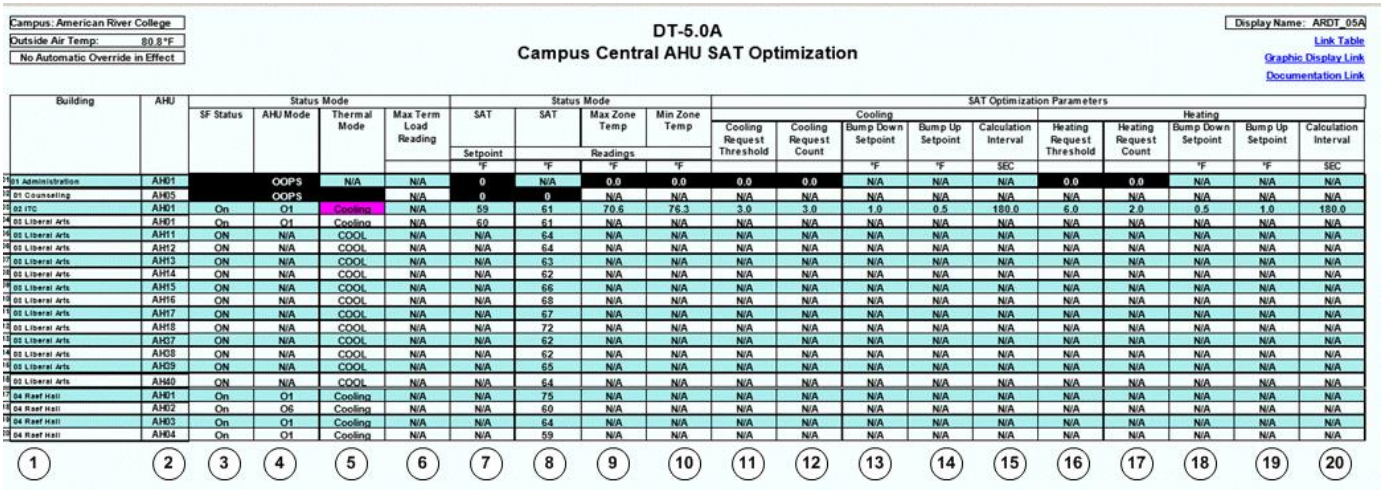
Display Name: ARDT_04A
Link Table
Graphic Display Link
Documentation Link

	Building	AHU	System Overrides			Supply Air Temperature Control					Air Flow		Ventilation/Dampers					Valves		SAT Optimization			Unoccupied Settings		
						Cooling Sp		Heating Sp		Current Sp	Static Pressure	Fan Speed	Damper Position	Damper Min	DCV Dmpr Max	CO2 Sp		HW Vlv Position	CHW Vlv Position	Request Count Thresholds			Space Temp		Night Purge
			Schedule	Occupancy	Heat/Cool	Low Sp	High Sp	Low Sp	High Sp											Cooling	Heating	Htg/Clg	Low Limit	High Limit	
						°F		°F		°F	INW	%	%	%	%	PPM		%	%				°F	°F	°F
1	01 - Administration	AH01			N/A	0	0	0	0	0	0.00	0	0	0	0	0	68	0		0	0	N/A	0	0	0
2	01 - Counseling	AH05				N/A	N/A	N/A	N/A	0	0.00	0	0	0	0	0	0	0		N/A	N/A	0	0	0	0
3	02 - ITC	AH01	On	Occupied	Cooling	55	65	85	135	69	1.80	79	36	36	80	1000	0	54		3	6	5	45	80	63
4	03 - Liberal Arts	AH01	On	Occupied	Cooling	60	65	80	130	60	N/A	80	30	30	80	1000	0	100		N/A	N/A	75	45	90	63
5	03 - Liberal Arts	AH11	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	66		N/A	N/A	N/A	61	82	N/A
6	03 - Liberal Arts	AH12	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	10	10	80	800	0	100		N/A	N/A	N/A	58	74	N/A
7	03 - Liberal Arts	AH13	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	100		N/A	N/A	N/A	60	82	N/A
8	03 - Liberal Arts	AH14	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	88		N/A	N/A	N/A	61	82	N/A
9	03 - Liberal Arts	AH15	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	38		N/A	N/A	N/A	61	82	N/A
10	03 - Liberal Arts	AH16	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	100		N/A	N/A	N/A	61	82	N/A
11	03 - Liberal Arts	AH17	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	100		N/A	N/A	N/A	61	82	N/A
12	03 - Liberal Arts	AH18	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	80	800	0	63		N/A	N/A	N/A	61	85	N/A
13	03 - Liberal Arts	AH37	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	75	2000	0	100		N/A	N/A	N/A	50	90	N/A
14	03 - Liberal Arts	AH38	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	75	2000	0	100		N/A	N/A	N/A	50	90	N/A
15	03 - Liberal Arts	AH39	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	75	2000	0	100		N/A	N/A	N/A	50	90	N/A
16	03 - Liberal Arts	AH40	On	On	COOL	N/A	N/A	N/A	N/A	N/A	N/A	N/A	20	20	75	2000	0	100		N/A	N/A	N/A	50	90	N/A
17	04 - Raef Hall	AH01	Occupied	Occupied	Cooling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	31	30	35	1000	0	19		N/A	N/A	N/A	45	90	63
18	04 - Raef Hall	AH02	Occupied	Occupied	Cooling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	20	N/A	1000	0	98		N/A	N/A	N/A	45	90	63
19	04 - Raef Hall	AH03	Occupied	Occupied	Cooling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	30	35	1000	0	99		N/A	N/A	N/A	45	90	63
20	04 - Raef Hall	AH04	Occupied	Occupied	Cooling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	30	30	35	1000	0	100		N/A	N/A	N/A	45	90	63
			3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18		19	20	21	22	23	24

1. Building Name
2. AHU Name
3. Schedule status
4. Occupancy status
5. AHU Heating/Cooling mode
6. Discharge air low cooling setpoint
7. Discharge air high cooling setpoint
8. Discharge air low heating setpoint
9. Discharge air high heating setpoint
10. Active discharge air temperature setpoint
11. Duct static pressure
12. Supply fan speed
13. Outside air damper position
14. Minimum outside air damper position
15. Maximum Demand Controlled Ventilation outside air damper position
16. Return air CO2 setpoint
17. Heating valve position
18. Cooling valve position
19. Cooling request threshold
20. Heating request threshold
21. Heating/Cooling mode changeover heating request threshold
22. Unoccupied heating setpoint
23. Unoccupied cooling setpoint
24. Night Purge outside air enable setpoint

3.12 CAMPUS CENTRAL STATION AHU SAT OPTIMIZATION (DT-5)

A. Example DT-5



Campus: American River College
Outside Air Temp: 80.8 °F
No Automatic Override in Effect

DT-5.0A
Campus Central AHU SAT Optimization

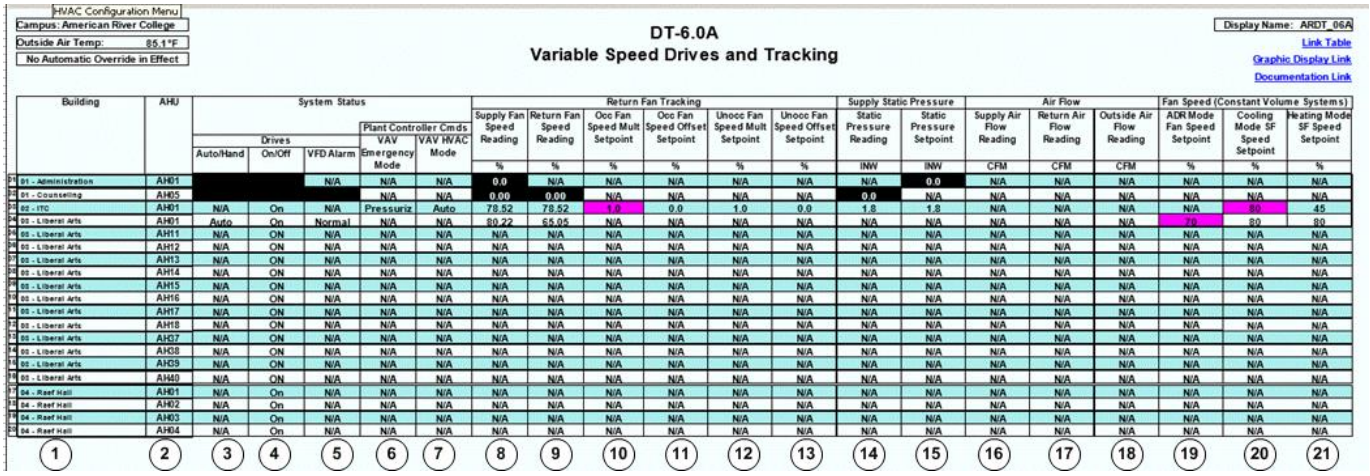
Display Name: ARDT_05A
Link Table
Graphic Display Link
Documentation Link

Building	AHU	Status Mode				Status Mode				SAT Optimization Parameters									
										Cooling					Heating				
		SF Status	AHU Mode	Thermal Mode	Max Term Load Reading	SAT Setpoint	SAT Readings	Max Zone Temp	Min Zone Temp	Cooling Request Threshold	Cooling Request Count	Cooling Bump Down Setpoint	Cooling Bump Up Setpoint	Cooling Calculation Interval	Heating Request Threshold	Heating Request Count	Heating Bump Down Setpoint	Heating Bump Up Setpoint	Heating Calculation Interval
						°F	°F	°F	°F			°F	°F	SEC			°F	°F	SEC
01 Administration	AH01		OOPS	N/A	N/A	0	N/A	0.0	0.0	0.0	0.0	N/A	N/A	N/A	0.0	0.0	N/A	N/A	N/A
01 Counseling	AH05		OOPS		N/A	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
02 ITC	AH01	On	O1	Cooling	N/A	59	61	70.6	76.3	3.0	3.0	1.0	0.5	180.0	6.0	2.0	0.5	1.0	180.0
05 Liberal Arts	AH01	On	O1	Cooling	N/A	60	61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH11	ON	N/A	COOL	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH12	ON	N/A	COOL	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH13	ON	N/A	COOL	N/A	N/A	63	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH14	ON	N/A	COOL	N/A	N/A	62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH15	ON	N/A	COOL	N/A	N/A	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH16	ON	N/A	COOL	N/A	N/A	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH17	ON	N/A	COOL	N/A	N/A	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH18	ON	N/A	COOL	N/A	N/A	72	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH37	ON	N/A	COOL	N/A	N/A	62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH38	ON	N/A	COOL	N/A	N/A	62	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH39	ON	N/A	COOL	N/A	N/A	65	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
05 Liberal Arts	AH40	ON	N/A	COOL	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
04 Reef Hall	AH01	On	O1	Cooling	N/A	N/A	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
04 Reef Hall	AH02	On	O6	Cooling	N/A	N/A	60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
04 Reef Hall	AH03	On	O1	Cooling	N/A	N/A	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
04 Reef Hall	AH04	On	O1	Cooling	N/A	N/A	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

1. Building name
2. AHU name
3. Supply fan status
4. AHU operating mode
5. AHU thermal mode
6. Maximum terminal load from connected VAV boxes
7. Discharge air temperature setpoint
8. Discharge air temperature
9. Maximum zone temperature from connected VAV boxes
10. Minimum zone temperature from connected VAV boxes
11. Cooling request threshold
12. Cooling request count from connected VAV boxes
13. Cooling bump down setpoint
14. Cooling bump up setpoint
15. Cooling sample time
16. Heating request threshold
17. Heating request count from connected VAV boxes
18. Heating bump down setpoint
19. Heating bump up setpoint
20. Heating sample time

3.13 VARIABLE SPEED DRIVES AND TRACKING (DT-6)

A. Example DT-6



HVAC Configuration Menu

Campus: American River College

Outside Air Temp: 85.1°F

No Automatic Override in Effect

DT-6.0A
Variable Speed Drives and Tracking

Display Name: ARDT_06A

Link Table

Graphic Display Link

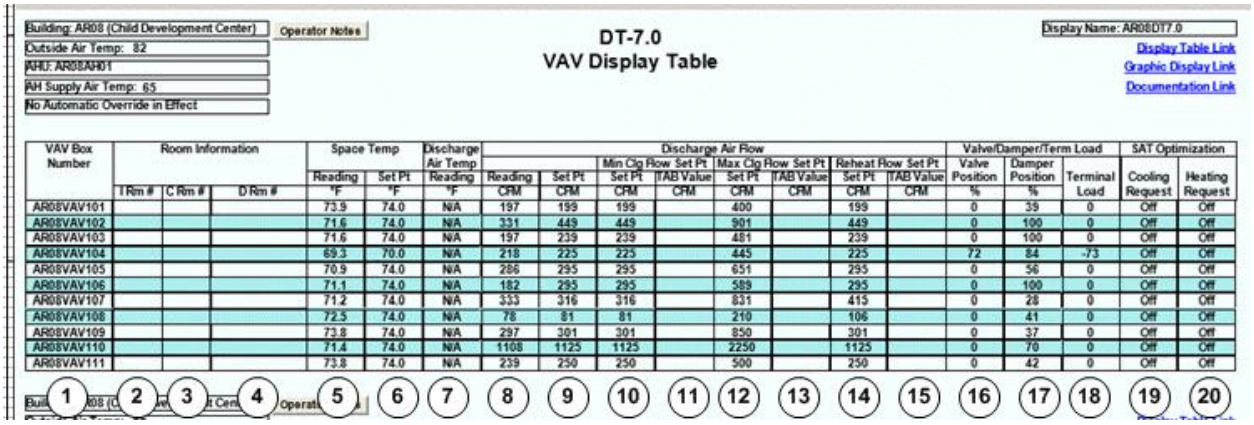
Documentation Link

	Building	AHU	System Status					Return Fan Tracking						Supply Static Pressure		Air Flow			Fan Speed (Constant Volume Systems)		
			Drives			Plant Controller Cmds		Supply Fan Speed Reading	Return Fan Speed Reading	Occ Fan Speed Mult Setpoint	Occ Fan Speed Offset Setpoint	Unocc Fan Speed Mult Setpoint	Unocc Fan Speed Offset Setpoint	Static Pressure Reading	Static Pressure Setpoint	Supply Air Flow Reading	Return Air Flow Reading	Outside Air Flow Reading	ADR Mode Fan Speed Setpoint	Cooling Mode SF Speed Setpoint	Heating Mode SF Speed Setpoint
			Auto/Hand	On/Off	VFD Alarm	VAV Emergency Mode	VAV HVAC Mode	%	%	%	%	%	%	INW	INW	CFM	CFM	CFM	%	%	%
21	01 - Administration	AH01			N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	N/A	N/A
22	01 - Counseling	AH05				N/A	N/A	0.00	0.00	N/A	N/A	N/A	N/A	0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	02 - ITC	AH01	N/A	On	N/A	Pressuriz	Auto	78.52	78.52	1.0	0.0	1.0	0.0	1.8	1.8	N/A	N/A	N/A	N/A	80	45
24	03 - Liberal Arts	AH01	Auto	On	Normal	N/A	N/A	80.22	65.05	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	70	80	80
25	03 - Liberal Arts	AH11	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	03 - Liberal Arts	AH12	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27	03 - Liberal Arts	AH13	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	03 - Liberal Arts	AH14	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	03 - Liberal Arts	AH15	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	03 - Liberal Arts	AH16	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31	03 - Liberal Arts	AH17	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	03 - Liberal Arts	AH18	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	03 - Liberal Arts	AH07	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	03 - Liberal Arts	AH08	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	03 - Liberal Arts	AH09	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36	03 - Liberal Arts	AH40	N/A	ON	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
37	04 - Reef Hall	AH01	N/A	On	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38	04 - Reef Hall	AH02	N/A	On	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39	04 - Reef Hall	AH03	N/A	On	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	04 - Reef Hall	AH04	N/A	On	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

1. Building name
2. AHU name
3. Supply fan VFD Hand-Off-Auto input
4. Supply fan status
5. Supply fan VFD alarm
6. VAV Emergency mode point
7. VAV HVAC mode point
8. Supply fan VFD speed feedback
9. Return fan VFD speed feedback
10. Occupied mode return fan speed multiplier
11. Occupied mode return fan offset
12. Unoccupied mode return fan speed multiplier
13. Unoccupied mode return fan offset
14. Duct static pressure
15. Duct static pressure setpoint
16. Supply air flow
17. Return air flow
18. Outside air flow
19. ADR speed setpoint (Constant volume AHU only)
20. Cooling mode speed setpoint (Constant volume AHU only)
21. Heating mode speed setpoint (Constant volume AHU only)

3.14 VAV DISPLAY TABLE (DT-7)

A. Example DT-7



Building: AR08 (Child Development Center) | Operator Notes

Outside Air Temp: 82

AHU: AR08AH01

AH Supply Air Temp: 65

No Automatic Override in Effect

DT-7.0
VAV Display Table

Display Name: AR08DT7.0

Display Table Link
Graphic Display Link
Documentation Link

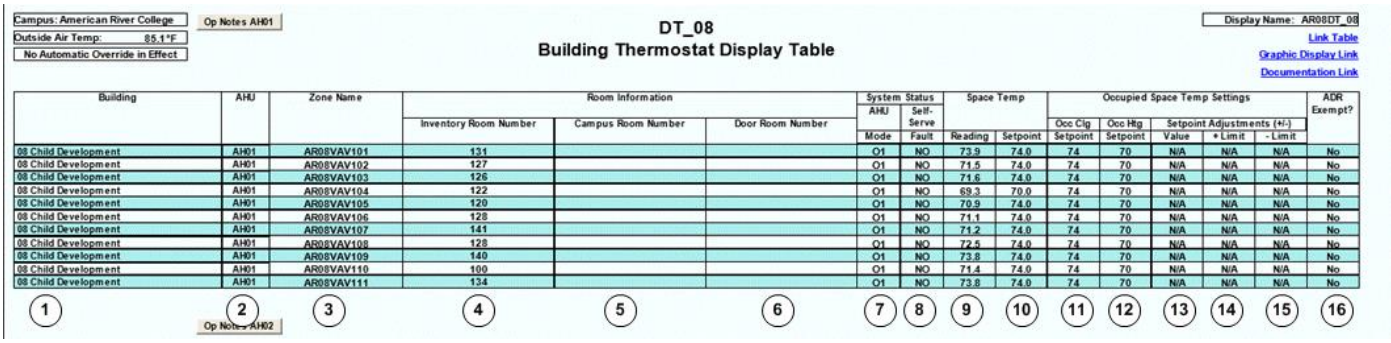
VAV Box Number	Room Information			Space Temp		Discharge Air Temp	Discharge Air Flow								Valve/Damper/Term Load			SAT Optimization	
									Min Clg Flow Set Pt		Max Clg Flow Set Pt		Reheat Flow Set Pt		Valve Position	Damper Position	Terminal Load	Cooling Request	Heating Request
	I Rm #	C Rm #	D Rm #	Reading °F	Set Pt °F	Reading °F	Reading CFM	Set Pt CFM	Set Pt CFM	TAB Value CFM	Set Pt CFM	TAB Value CFM	Set Pt CFM	TAB Value CFM	%	%			
AR08VAV101				73.9	74.0	N/A	197	199	199		400		199		0	39	0	Off	Off
AR08VAV102				71.6	74.0	N/A	331	449	449		901		449		0	100	0	Off	Off
AR08VAV103				71.6	74.0	N/A	197	239	239		481		239		0	100	0	Off	Off
AR08VAV104				69.3	70.0	N/A	218	225	225		445		225		72	84	-73	Off	Off
AR08VAV105				70.9	74.0	N/A	286	295	295		651		295		0	56	0	Off	Off
AR08VAV106				71.1	74.0	N/A	182	295	295		589		295		0	100	0	Off	Off
AR08VAV107				71.2	74.0	N/A	333	316	316		831		415		0	28	0	Off	Off
AR08VAV108				72.5	74.0	N/A	78	81	81		210		106		0	41	0	Off	Off
AR08VAV109				73.8	74.0	N/A	297	301	301		850		301		0	37	0	Off	Off
AR08VAV110				71.4	74.0	N/A	1108	1125	1125		2250		1125		0	70	0	Off	Off
AR08VAV111				73.8	74.0	N/A	239	250	250		500		250		0	42	0	Off	Off

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

1. VAV name
2. Inventory room number (from construction documents entered by Honeywell)
3. Campus room number (entered by Los Rios CCD)
4. Door room number (entered by Los Rios CCD)
5. Space temperature
6. Space temperature setpoint
7. Discharge air temperature
8. Discharge air flow
9. Discharge air flow setpoint
10. Minimum cooling air flow setpoint
11. Minimum cooling air flow setpoint (from TAB report entered by Los Rios CCD)
12. Maximum cooling air flow setpoint
13. Maximum cooling air flow setpoint (from TAB report entered by Los Rios CCD)
14. Reheat air flow setpoint
15. Reheat air flow setpoint (from TAB report entered by Los Rios CCD)
16. Reheat valve position
17. Damper position
18. Terminal Load
19. Cooling Request status
20. Heating Request status

3.15 BUILDING THERMOSTAT DISPLAY TABLE (DT-8)

A. Example DT-8



Campus: American River College | Op Notes AH01
Outside Air Temp: 85.1 °F
No Automatic Override in Effect

DT_08
Building Thermostat Display Table

Display Name: AR08DT_08
Link Table
Graphic Display Link
Documentation Link

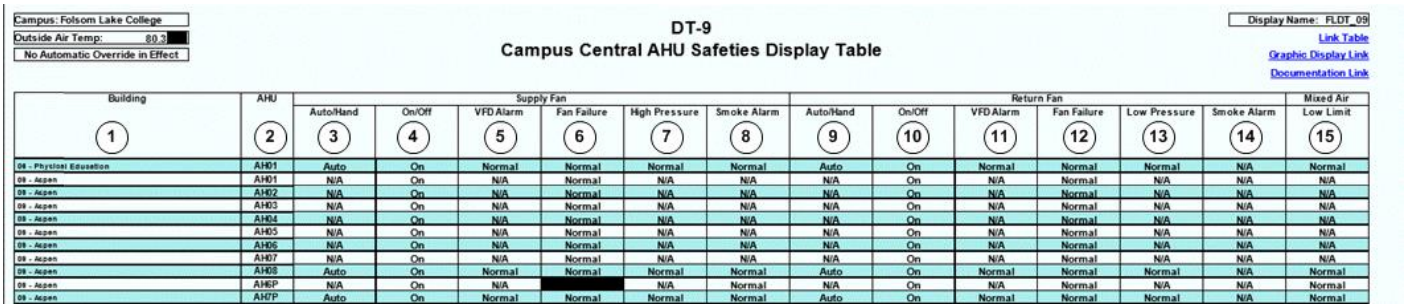
Building	AHU	Zone Name	Room Information			System Status		Space Temp		Occupied Space Temp Settings					ADR Exempt?
			Inventory Room Number	Campus Room Number	Door Room Number	AHU Mode	Self-Serve Fault	Reading	Setpoint	Occ Clg Setpoint	Occ Htg Setpoint	Setpoint Adjustments (+/-) Value	+ Limit	- Limit	
08 Child Development	AH01	AR08VAV101	131			O1	NO	73.9	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV102	127			O1	NO	71.5	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV103	126			O1	NO	71.6	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV104	122			O1	NO	69.3	70.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV105	120			O1	NO	70.9	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV106	128			O1	NO	71.1	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV107	141			O1	NO	71.2	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV108	128			O1	NO	72.5	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV109	140			O1	NO	73.8	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV110	100			O1	NO	71.4	74.0	74	70	N/A	N/A	N/A	No
08 Child Development	AH01	AR08VAV111	134			O1	NO	73.8	74.0	74	70	N/A	N/A	N/A	No
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)

Op Notes AH02

1. Building name
2. AHU name
3. Zone name
4. Inventory room number (from construction documents entered by Honeywell)
5. Campus room number (entered by Los Rios CCD)
6. Door room number (entered by Los Rios CCD)
7. AHU control mode
8. Zone sensor override button fault
9. Zone temperature
10. Zone temperature setpoint
11. Occupied cooling setpoint
12. Unoccupied heating setpoint
13. Zone sensor setpoint input
14. Zone sensor setpoint upper limit
15. Zone sensor setpoint lower limit
16. Is AHU ADR exempt

3.16 CAMPUS CENTRAL STATION AHU SAFETIES DISPLAY TABLES (DT-9)

A. Example DT-9



Campus: Folsom Lake College
Outside Air Temp: 80.3
No Automatic Override in Effect

DT-9
Campus Central AHU Safeties Display Table

Display Name: FLDT_09
Link Table
Graphic Display Link
Documentation Link

Building	AHU	Supply Fan						Return Fan						Mixed Air
		Auto/Hand	On/Off	VFD Alarm	Fan Failure	High Pressure	Smoke Alarm	Auto/Hand	On/Off	VFD Alarm	Fan Failure	Low Pressure	Smoke Alarm	Low Limit
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
04 - Physical Education	AH01	Auto	On	Normal	Normal	Normal	Normal	Auto	On	Normal	Normal	Normal	N/A	Normal
09 - Aspen	AH01	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH02	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH03	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH04	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH05	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH06	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH07	N/A	On	N/A	Normal	N/A	N/A	N/A	On	N/A	Normal	N/A	N/A	N/A
09 - Aspen	AH08	Auto	On	Normal	Normal	Normal	Normal	Auto	On	Normal	Normal	Normal	N/A	Normal
09 - Aspen	AHEP	N/A	On	N/A		N/A	Normal	N/A	On	N/A	Normal	N/A	N/A	Normal
09 - Aspen	AHTP	Auto	On	Normal	Normal	Normal	Normal	Auto	On	Normal	Normal	Normal	N/A	Normal

1. Building Name
2. AHU Name
3. Supply Fan VFD Hand-Off-Auto input
4. Supply Fan VFD status
5. Supply Fan VFD alarm
6. Supply Fan failure alarm
7. Supply air high duct pressure alarm
8. Supply air smoke alarm
9. Return Fan VFD Hand-Off-Auto input
10. Return Fan VFD status
11. Return Fan VFD alarm
12. Return Fan failure alarm
13. Return air high duct pressure alarm
14. Return air smoke alarm
15. Mixed air low temperature alarm

3.17 CRITICAL POINTS DISPLAY TABLE (DT-10)

A. Example DT-10

All Campuses
Outside Air Temp: 51.4 °F
No Automatic Override in Effect

DT-10
Campus Critical Points

Display Name: DT_10
Link Table
Graphic Display Link
Documentation Link

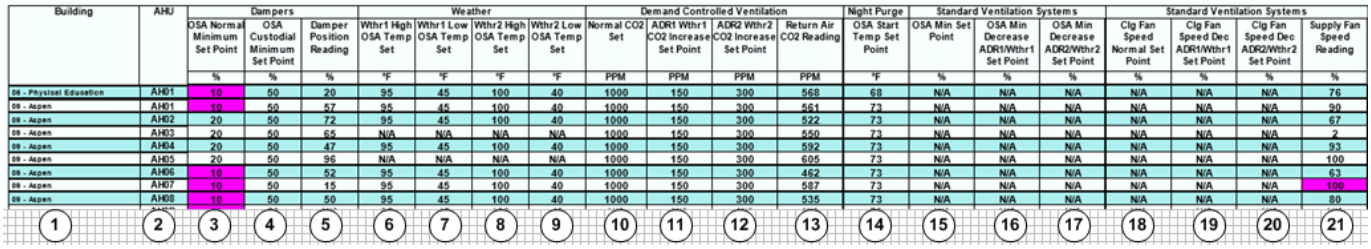
Campus	Building	Link to Critical Space or Equipment where Applicable	Critical Point	Engineering Unit	Indicator
FLC	Falcon's Roost (12)	Server Room	72.31	°F	
FLC	Aspen (09)	Main IT Server Room	73.49	°F	
FLC	Aspen (09)	Main IT Server Room East	68.97	°F	
FLC	Central Plant (30)	Sec Chilled Water Supply	50.83	°F	
FLC	Central Plant (30)	Sec Hot Water Supply	171.75	°F	
FLC	Cypress (10)	AH04 Mech Room Flood	Normal		
FLC	Falcon's Roost (12)	Cafeteria Freezer	-4.20	°F	
FLC	Falcon's Roost (12)	Cafeteria Reefer	37.42	°F	

1 2 3 4 5 6

1. Campus name
2. Building Name
3. Typical critical points – coordinate with Los Rios CCD
4. Point value
5. Engineering unit
6. Alarm indicator – red when in alarm

3.18 AUTOMATED OVERRIDES DISPLAY TABLE (DT-12)

A. Example DT-12

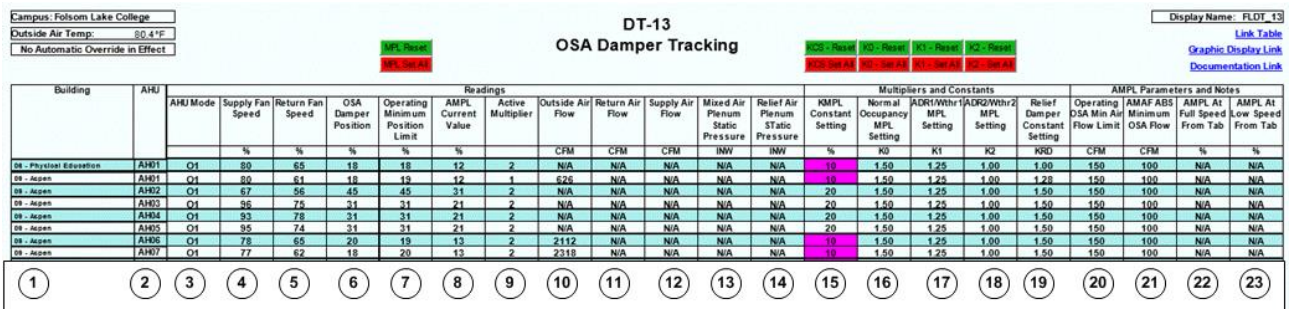


Building	AHU	Dampers			Weather				Demand Controlled Ventilation				Night Purge	Standard Ventilation Systems			Standard Ventilation Systems			
		OSA Normal Minimum Set Point	OSA Custodial Minimum Set Point	Damper Position Reading	Wthr1 High OSA Temp Set	Wthr1 Low OSA Temp Set	Wthr2 High OSA Temp Set	Wthr2 Low OSA Temp Set	Normal CO2 Set	ADR1 Wthr1 CO2 Increase Set Point	ADR2 Wthr2 CO2 Increase Set Point	Return Air CO2 Reading	OSA Start Temp Set Point	OSA Min Set Point	OSA Min Decrease ADR1/Wthr1 Set Point	OSA Min Decrease ADR2/Wthr2 Set Point	Clg Fan Speed Normal Set Point	Clg Fan Speed Dec ADR1/Wthr1 Set Point	Clg Fan Speed Dec ADR2/Wthr2 Set Point	Supply Fan Speed Reading
		%	%	%	°F	°F	°F	°F	PPM	PPM	PPM	PPM	°F	%	%	%	%	%	%	%
08 - Physical Education	AH01	10	50	20	95	45	100	40	1000	150	300	568	68	N/A	N/A	N/A	N/A	N/A	N/A	76
09 - Aspen	AH01	10	50	57	95	45	100	40	1000	150	300	561	73	N/A	N/A	N/A	N/A	N/A	N/A	90
09 - Aspen	AH02	20	50	72	95	45	100	40	1000	150	300	522	73	N/A	N/A	N/A	N/A	N/A	N/A	67
09 - Aspen	AH03	20	50	65	N/A	N/A	N/A	N/A	1000	150	300	550	73	N/A	N/A	N/A	N/A	N/A	N/A	2
09 - Aspen	AH04	20	50	47	95	45	100	40	1000	150	300	592	73	N/A	N/A	N/A	N/A	N/A	N/A	93
09 - Aspen	AH05	20	50	96	N/A	N/A	N/A	N/A	1000	150	300	605	73	N/A	N/A	N/A	N/A	N/A	N/A	100
09 - Aspen	AH06	10	50	52	95	45	100	40	1000	150	300	462	73	N/A	N/A	N/A	N/A	N/A	N/A	63
09 - Aspen	AH07	10	50	15	95	45	100	40	1000	150	300	587	73	N/A	N/A	N/A	N/A	N/A	N/A	100
09 - Aspen	AH08	10	50	50	95	45	100	40	1000	150	300	535	73	N/A	N/A	N/A	N/A	N/A	N/A	80
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

1. Building name
2. AHU name
3. Current outside air damper minimum position
4. Custodian override outside air damper minimum position
5. Current outside air damper position
6. Extreme weather 1 high outside air temperature limit
7. Extreme weather 1 low outside air temperature limit
8. Extreme weather 2 high outside air temperature limit
9. Extreme weather 2 low outside air temperature limit
10. DCV Normal return air CO2 setpoint
11. DCV ADR1/Weather 1 return air CO2 increase setpoint
12. DCV ADR2/Weather 2 return air CO2 increase setpoint
13. DCV Return air CO2 reading
14. DCV Night Purge outside air temperature enable setpoint
15. Non DCV System Minimum outside air damper position
16. Non DCV System ADR1/Weather1 Minimum outside air damper position
17. Non DCV System ADR2/Weather2 Minimum outside air damper position
18. Normal cooling supply fan speed setpoint
19. ADR1/Weather1 cooling supply fan speed setpoint
20. ADR2/Weather2 cooling supply fan speed setpoint
21. Supply Fan VFD Speed feedback

3.19 OUTSIDE AIR TRACKING DISPLAY TABLE (DT-13)

A. Example DT-13



Campus: Folsom Lake College
Outside Air Temp: 80.4 °F
No Automatic Override in Effect

DT-13
OSA Damper Tracking

MPL Reset | MPL Set All | KCS - Reset | K0 - Reset | K1 - Reset | K2 - Reset | KCS Set All | K0 - Set All | K1 - Set All | K2 - Set All

Display Name: FLDT_13
Link Table
Graphic Display Link
Documentation Link

Building	AHU	Readings												Multipliers and Constants					AMPL Parameters and Notes			
		AHU Mode	Supply Fan Speed	Return Fan Speed	OSA Damper Position	Operating Minimum Position Limit	AMPL Current Value	Active Multiplier	Outside Air Flow	Return Air Flow	Supply Air Flow	Mixed Air Plenum Static Pressure	Relief Air Plenum STatic Pressure	KMPL Constant Setting	Normal Occupancy MPL Setting	ADR1/Wthr1 MPL Setting	ADR2/Wthr2 MPL Setting	Relief Damper Constant Setting	Operating OSA Min Air Flow Limit	AMAF ABS Minimum OSA Flow	AMPL At Full Speed From Tab	AMPL At Low Speed From Tab
			%	%	%	%	%		CFM	CFM	CFM	INW	INW	%	K0	K1	K2	KRD	CFM	CFM	%	%
06 - Physical Education	AH01	O1	80	65	18	18	12	2	N/A	N/A	N/A	N/A	N/A	19	1.50	1.25	1.00	1.00	150	100	N/A	N/A
09 - Aspen	AH01	O1	80	61	18	19	12	1	626	N/A	N/A	N/A	N/A	19	1.50	1.25	1.00	1.28	150	100	N/A	N/A
09 - Aspen	AH02	O1	67	56	45	45	31	2	N/A	N/A	N/A	N/A	N/A	20	1.50	1.25	1.00	1.50	150	100	N/A	N/A
09 - Aspen	AH03	O1	96	75	31	31	21	2	N/A	N/A	N/A	N/A	N/A	20	1.50	1.25	1.00	1.50	150	100	N/A	N/A
09 - Aspen	AH04	O1	93	78	31	31	21	2	N/A	N/A	N/A	N/A	N/A	20	1.50	1.25	1.00	1.50	150	100	N/A	N/A
09 - Aspen	AH05	O1	95	74	31	31	21	2	N/A	N/A	N/A	N/A	N/A	20	1.50	1.25	1.00	1.50	150	100	N/A	N/A
09 - Aspen	AH06	O1	78	65	20	19	13	2	2112	N/A	N/A	N/A	N/A	19	1.50	1.25	1.00	1.50	150	100	N/A	N/A
09 - Aspen	AH07	O1	77	62	18	20	13	2	2318	N/A	N/A	N/A	N/A	19	1.50	1.25	1.00	1.50	150	100	N/A	N/A
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)

1. Building name
2. AHU name
3. AHU operating mode
4. Supply fan speed feedback
5. Return fan speed feedback
6. Outside air damper position
7. Operating minimum outside air damper position
8. Allowable minimum position limit
9. Active multiplier
10. Outside air flow
11. Return air flow
12. Supply air flow
13. Mixed air plenum static pressure
14. Relief air plenum static pressure
15. Absolute minimum outside air damper position
16. Normal occupancy multiplier
17. ADR1/Weather1 multiplier
18. ADR2/Weather2 multiplier
19. Relief damper constant setting
20. Operating outside air minimum air flow limit
21. Absolute minimum outside air flow
22. Allowable minimum position limit at full speed
23. Allowable minimum position limit at low speed

END OF SECTION

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SECTION 28 13 00
ACCESS CONTROL

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Security access devices.

B. Access control panel.

1.02 RELATED REQUIREMENTS

A. Section 087100 - Door Hardware.

B. Section 111200 - Parking Control Equipment.

C. Section 142010 - Passenger Elevators.

D. Section 260519 - Low-Voltage Electrical Power Conductors and Cables (600 V and Less).

E. Section 270526 – Communications Grounding and Bonding

F. Section 270536 – Communication Cable Trays

G. Section 270600 – Communication Commissioning

1.03 REFERENCES

A. NFPA 70 - National Electrical Code; National Fire Protection Association 2017 with California Electrical Code 2016 Amendments.

1.04 SYSTEM DESCRIPTION

A. Security Access System: Control access to building using coded key pads:

1. Selected Exterior Doors: Control access into building.

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Provide system wiring diagram showing each device and wiring connection required.

C. Product Data: Provide electrical characteristics and connection requirements.

D. Test Reports: Indicate satisfactory completion of required tests and inspections.

E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.

F. Project Record Documents: Record actual locations of access authorization equipment.

G. Operation Data: Operating instructions.

H. Maintenance Data: Maintenance and repair procedures.

I. Maintenance Materials: Furnish the following for Los Rios Community College District's use in maintenance of project.

1. See Section 016000 - Product Requirements, for additional provisions.

2. Deliver keys/cards not used in initial installation to Los Rios Community College District as directed.

1.06 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience and with

service facilities within 100 miles of Project.

C. Installer Qualifications: Company specializing in installing the products specified in this section with minimum three years documented experience.

D. Products: Furnish products listed and classified by Underwriters Laboratories Inc. as suitable for purpose specified and indicated.

PART 2 PRODUCTS (IMRON)

2.01 GENERAL

A. The products listed should be considered “District standards, no substitutions” unless approved by district.

2.02 CANS (See CAN layout on drawing design details)

A. Access – MIER BW-LRC103 Rev. A(25).

B. Power Supply / Spare – MIER BW-LRC103 Rev. A(25).

C. Battery Box – FireLite BB25.

2.03 ELECTRONICS (See panel detail for layout on drawing design details)

A. Imron SCP-M

B. Imron MR-52

C. Imron 8 Port multiplexer (RS 485 data expander)

D. Imron output SO-16

E. Imron input SI-16

F. Power Supply – Altronix 1024ULXB

G. Power Distribution – Altronix PD8ULCB

2.04 BATTERIES

A. Powersonic 12350

2.05 WIRE (See Cable Legend on drawings)

A. C1 – Honeywell 5281 or plenum 5381

B. C2 – Honeywell 4978 or plenum 5088

C. C3 – Honeywell 1104 or plenum 3104

D. C4 – Honeywell 1125 or plenum 3121

E. C5 – Honeywell 1207 or plenum 3206

2.06 DEVICES

A. Toggle door, mullion mount reader – HID IClass 900LNNNEK20452 Indala 18287

B. Toggle door, wall mount reader – HID IClass 920LNNNEK20452 Indala 18287

C. Non toggle door, mullion mount reader – HID IClass 900LNNNEK200DS Indala 18287

D. Reader behind Elk keypad – HID IClass 900LNNNJEK200D4 Indala 18287

E. Toggle Button – Bulgin MAV0120/3D2GN024

F. Door Release – Rutherford RCI 909S or 909F

G. Dummy Plugs - George Risk Industries, Inc.

1. 3/8” Diameter, White or Brown (DP-20RS)
2. 1/4 “ Diameter, Round Flanged, White or Brown (DP-50RF)
3. 1/4” Diameter, Black Only (DP-250)
4. 3/8” Diameter, Self Locking (DP-375)

5. 1/2” Diameter, Self Locking (DP-500)
6. 9/16” Diameter, Self Locking (DP-562)
7. 5/8” Diameter, Self Locking (DP-625)
8. 3/4” Diameter, Self Locking (DP-750)
9. 7/8” Diameter, Self Locking (DP-875)
10. 1” Diameter, Self Locking (DP-1.0)
11. 1 1/4” Diameter, Self Locking (DP-1.25)
12. 1.093” Diameter, For Electrical Box Knockouts, Gray Only (6726)

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use 16 AWG minimum size conductors for detection and signal circuit conductors. Install wiring in conduit.

C. Make conduit and wiring connections to door hardware devices furnished and installed under Section 087100.

3.02 FIELD QUALITY CONTROL

A. Perform field inspection and testing in accordance with Section 014500.

B. Manufacturer Services: Furnish services of technician to supervise installation, adjustments, final connections, system testing, and to train Los Rios Community College District personnel.

3.03 CLOSEOUT ACTIVITIES

A. Demonstrate normal and abnormal modes of operation, and required response to each.

B. Provide 2 hours minimum of instruction each for two persons.

1. Conduct instruction at project site with manufacturer's representative.

3.04 MAINTENANCE

A. See Section 017000 - Execution Requirements, for additional requirements relating to maintenance service.

B. Furnish service and maintenance of security access system for one year from Date of Substantial Completion.

END OF SECTION

SECTION 28 16 00

INTRUSION DETECTION

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Intrusion detection devices.

B. Alarm control panel.

C. Signaling devices.

1.02 RELATED REQUIREMENTS

A. Section 087100 - Door Hardware.

B. Section 260519 - Low-Voltage Electrical Power Conductors and Cables (600 V and Less).

C. Section 270526 – Communication Grounding and Bonding

D. Section 270536 – Communications Cable Tray

E. Section 270800 – Communications Commissioning

1.03 REFERENCE STANDARDS

A. NFPA 70 - National Electrical Code; National Fire Protection Association 2011 with California Electrical Code 2013 Amendments.

B. NFPA 72 - National Fire Alarm Code and Signaling Code; National Fire Protection Association; 2013.

1.04 SYSTEM DESCRIPTION

A. Intrusion Detection System: Protect building and selected areas from intrusion during SECURE hours as follows:

1.05 SUBMITTALS

A. See Section 013000 - Administrative Requirements, for submittal procedures.

B. Shop Drawings: Indicate system wiring diagram showing each device and wiring connection required.

C. Product Data: Provide electrical characteristics and connection requirements.

D. Test Reports: Indicate satisfactory completion of required tests and inspections.

E. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, installation, and starting of product.

F. Project Record Documents: Record actual locations of initiating devices, signaling appliances, and end-of-line devices.

G. Operation Data: Operating instructions.

H. Maintenance Data: Maintenance and repair procedures.

1.06 QUALITY ASSURANCE

A. Conform to requirements of NFPA 70.

B. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience and with service facilities within 100 miles of Project.

C. Products: Furnish products listed and classified by Underwriters Laboratories Inc. as suitable for purpose specified and indicated.

PART 2 PRODUCTS (ELK)

2.01 GENERAL

A. The products listed should be considered “District standards, no substitutions” unless approved by district.

2.02 ALARM CONTROL PANEL

A. Control Panel: Modular construction with surface wall-mounted enclosure.

B. Power supply: Adequate to serve control panel modules, remote detectors, and alarm signaling devices. Include battery-operated emergency power supply with capacity for operating system in standby mode for 24 hours.

C. System Supervision: Provide electrically-supervised system, with supervised alarm initiating and alarm signaling circuits. Component or power supply failure places system in alarm mode.

D. Initiating Circuits: Supervised zone module with alarm and trouble indication.

E. Signal Circuits: Supervised zone coded signal module, sufficient for signal devices connected to system; occurrence of single ground or open condition places circuit in trouble mode and does not disable that circuit from transmitting alarm.

F. Remote Station Signal Transmitter: Electrically supervised, capable of transmitting alarm and trouble signals over telephone lines to central station receiver.

G. Auxiliary Relays: Provide sufficient SPDT auxiliary relay contacts for each detection zone to provide accessory functions specified.

H. Alarm Sequence of Operation: Actuation of intrusion detecting device places system in alarm mode, which causes the following operations:

1. Sound and display local alarm signaling devices with non-coded signal.
2. Transmit non-coded signal to District selected monitoring central station.
3. Indicate location of actuated device on control panel and on remote annunciator panel.
4. Alarm Reset: Key-accessible reset function resets alarm system out of alarm if alarm initiating circuits have cleared.
5. Lamp Test: Manual lamp test function causes alarm indication at each zone at control panel and at annunciator panel.

2.03 CANS (See CAN layout on drawing design details)

A. Intrusion – MIER BW-LRC103 Rev. A(25).

B. Power Supply/Spare – MIER BW-LRC103 Rev. A(25).

C. Battery Box-FireLite BB25.

2.04 ELECTRONICS (See panel detail for layout on drawing design details)

A. Panelboard - ELK M1GCB, M1 BLOCKS.

B. Network - ELK M1XEP.

C. Input - ELK M1XIN.

D. Output - ELK M1RB or ELK M1XOVR.

E. Surge Protected Telephone Jack – ELK 950

F. Power Supplies – Altronix 1012ULXB

G. Power Distribution – Altronix PD8ULCB

2.05 BATTERIES – Powersonic 12350

2.06 WIRE (See Cable Legend on drawings)

A. C1 – Honeywell 5281 or plenum 5381

B. C2 – Honeywell 4978 or plenum 5088

C. C3 – Honeywell 1104 or plenum 3104

D. C4 – Honeywell 1125 or plenum 3121

E. C5 – Honeywell 1207 or plenum 3206

2.07 DEVICES

A. Motion Sensor

1. Ceiling – Rokonet RK150DTGL
2. Ceilings +18' – Bosch D59370
3. Wall Mount (corner) – Visonic Duet AM

B. Reader – HID ICLASS 900LNNNEK200D4 INDALA FORMAT 18287

C. Keypad – ELK M1KP2

D. Backbox – Machine #keypadenclosurewhiteABS

E. Switches / Interior Door Contacts

1. Recessed – GRI 195-12WG ¾"
2. Recessed – GRI 199-12WG 1"
3. Surface Mount – GRI 413PWG
4. Overhead / Roll up – GRI 4532D-36
5. Overhead / Roll up Latch – GRI 4482A

F. Magnets

1. GRI MC-25
2. GRI MC-180

G. Hold / up Button (Duress)

1. Potter HUB-T

2.08 SIGNAL DEVICES

A. Alarm Bells: NFPA 72, electric vibrating, 8 inch bell with operating mechanism behind dome. Sound Rating: 81 dB at 10 feet.

B. Remote Annunciator: Provide supervised remote annunciator including audible and visual indication of intrusion by zone, and audible and visual indication of system trouble, in flush wall-mounted enclosure.

PART 3 EXECUTION

3.01 INSTALLATION

A. Install in accordance with manufacturer's instructions.

B. Use 18 AWG minimum size conductors for detection and signal circuit conductors. Install wiring in conduit.

C. Make conduit and wiring connections to door hardware devices furnished and installed under Section 087100.

3.02 FIELD QUALITY CONTROL

A. Perform field inspection and testing in accordance with Section 014500.

B. Test in accordance with NFPA 72.

3.03 MANUFACTURER SERVICES

A. Provide the services of the manufacturer's technical representative to prepare and start systems.

1. Include services of technician to supervise installation, adjustments, final connections, system testing, and Los Rios Community College District training.

3.04 CLOSEOUT ACTIVITIES

A. Demonstrate normal and abnormal modes of operation, and required responses to each.

B. Provide 2 hours minimum of instruction each for two persons.

1. Conduct instruction at project site with manufacturer's representative.

3.05 MAINTENANCE

A. See Section 017000 - Execution Requirements, for additional requirements relating to maintenance service.

B. Provide service and maintenance of intrusion detection system for one year from Date of Substantial Completion.

END OF SECTION