

WSU DAVIS CAMPUS D13 REMODEL CONSTRUCTION DOCUMENTS

CIVIL ENGINEERING:

ENSIGN ENGINEERING
45 WEST 10000 SOUTH, SUITE 500
SANDY, UT 84070
801.255.0529

STRUCTURAL ENGINEERING:

REAVELEY ENGINEERING
675 EAST 500 SOUTH, SUITE 400
SALT LAKE CITY, UT 84102
801.486.3883

MECHANICAL ENGINEERING:

COLVIN ENGINEERING
244 WEST 300 NORTH, SUITE 200
SALT LAKE CITY, UT 84103
801.322.2400

ELECTRICAL ENGINEERING:

SPECTRUM ENGINEERS
324 SOUTH STATE STREET, SUITE 400
SALT LAKE CITY, UT 84111
801.328.5151

WSU DAVIS
CAMPUS D13
REMODEL

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

410 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84143

GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015



DRAWING INDEX	
Sheet Number	Sheet Name
GENERAL	
G100	COVER SHEET
G101	INDEX
G102	CODE SHEET
G103	MISC. DOCUMENTS
G104	ELECTRICAL COMCHECK
CIVIL	
C100	DRAINAGE IMPROVEMENT PLAN AND ACCESSIBLE ROUTE PLAN
ARCHITECTURAL	
AD101	DEMO FLOOR PLAN - LEVEL 1
AD102	DEMO FLOOR PLAN - LEVEL 2
AD103	DEMO RCP - LEVEL 1
AD104	DEMO RCP - LEVEL 2
AE201	FLOOR PLAN - LEVEL 1
AE202	FLOOR PLAN - LEVEL 2
AE203	WTFI - LEVEL 1
AE204	WTFI - LEVEL 2
AE205	FLOOR FINISH - LEVEL 1
AE206	FLOOR FINISH - LEVEL 2
AE207	FFE - LEVEL 1
AE208	FFE - LEVEL 2
AE209	RCP - LEVEL 1
AE210	RCP - LEVEL 2
AE211	ROOF PLAN
AE300	EXTERIOR WINDOW ELEVATIONS
AE400	ENLARGED RESTROOMS & ELEVATIONS
AE401	ENLARGED BIOTECH / CHEM LAB & INTERIOR ELEVATIONS
AE402	ENLARGED BIOLOGY LAB & BIOLOGY PREP / STORAGE
AE403	CLASSROOM INTERIOR ELEVATIONS
AE404	CLASSROOM INTERIOR ELEVATIONS
AE405	INTERIOR ELEVATIONS
AE406	INTERIOR ELEVATIONS
AE407	INTERIOR ELEVATIONS
AE408	INTERIOR ELEVATIONS
AE500	PLAN DETAILS
AE501	CEILING, TRANSITION AND RESTROOM DETAILS
AE502	INTERIOR DETAILS
AE503	INTERIOR DETAILS
AE504	SIGNAGE DETAILS
AE600	INTERIOR FINISHES SCHEDULE
AE701	UL LISTINGS
AE702	UL LISTINGS
STRUCTURAL	
SE001	GENERAL STRUCTURAL NOTES
SE002	GENERAL STRUCTURAL NOTES
SB101	FOOTING & FOUNDATION PLAN
SB501	FOOTING & FOUNDATION DETAILS
SB502	FOOTING & FOUNDATION DETAILS
SF102	LEVEL 2 FLOOR FRAMING PLAN
SF103	ROOF FRAMING PLAN
SF201	BRACED FRAME ELEVATIONS
SF501	FRAMING DETAILS

DRAWING INDEX	
Sheet Number	Sheet Name
MECHANICAL	
M001	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS
M002	COMCHECK
FP101	LEVEL 1 FIRE PROTECTION PLAN
FP102	LEVEL 2 FIRE PROTECTION PLAN
MD101	DEMO MECHANICAL AND PIPING PLAN - LEVEL 1
MD102	DEMO MECHANICAL AND PIPING PLAN - LEVEL 2
MD103	MECHANICAL / PLUMBING DEMO PLAN - ROOF
MH101	REMODEL MECHANICAL PLAN - LEVEL 1
MH102	REMODEL MECHANICAL PLAN - LEVEL 2
MH103	MECHANICAL / PLUMBING REMODEL PLAN - ROOF
MH501	MECHANICAL DETAILS
MH502	MECHANICAL DETAILS
MH601	MECHANICAL SCHEDULES
MH602	MECHANICAL SCHEDULES
MH701	VRF SCHEMATICS - LEVEL 1 & 2
MH702	CONTROL SCHEMATICS
MH703	CONTROL SCHEMATICS
PLUMBING	
PD101	DEMO PLUMBING PLAN - LEVEL 1
PD102	DEMO PLUMBING PLAN - LEVEL 2
PL101	REMODEL PLUMBING PLAN - LEVEL 1
PL102	REMODEL PLUMBING PLAN - LEVEL 2
PL501	PLUMBING DETAILS
PL601	PLUMBING SCHEDULES
Electrical	
EE001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EE501	ELECTRICAL DETAILS PLAN
EE701	TYPICAL MOUNTING HEIGHT DETAILS
ES101	ELECTRICAL SITE PLAN
ED101	MAIN LEVEL ELECTRICAL DEMOLITION PLAN
ED102	SECOND LEVEL ELECTRICAL DEMOLITION PLAN
ED103	PENTHOUSE/ROOF ELECTRICAL DEMOLITION PLAN
EP101	MAIN LEVEL POWER PLAN
EP102	SECOND LEVEL POWER PLAN
EP103	PENTHOUSE/ROOF POWER PLAN
EP111	MAIN LEVEL MECHANICAL POWER PLAN
EP112	SECOND LEVEL MECHANICAL POWER PLAN
EP601	ONE-LINE DIAGRAMS
EP602	EQUIPMENT SCHEDULE
EP603	PANEL SCHEDULES
EP604	PANEL SCHEDULES
EL101	MAIN LEVEL LIGHTING PLAN
EL102	SECOND LEVEL LIGHTING PLAN
EL501	LIGHTING CONTROL DETAILS
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EY101	MAIN LEVEL AUXILIARY PLAN
EY102	SECOND LEVEL AUXILIARY PLAN
EY103	PENTHOUSE/ROOF AUXILIARY PLAN
EY601	AUXILIARY DIAGRAMS AND SCHEDULES
FA101	MAIN LEVEL FIRE ALARM PLAN
FA102	SECOND LEVEL FIRE ALARM PLAN
FA103	PENTHOUSE/ROOF FIRE ALARM PLAN
FA601	FIRE ALARM RISER

REVISIONS:

NO.	DATE	DESCRIPTION

ABBREVIATIONS

ABV	ABOVE	DIA.	DIAMETER	GWB.	GYPSUM WALL BOARD	OWSJ	OPEN WEB STEEL JOIST	T.O.A.	TOP OF ASPHALT
A.F.F.	ABOVE FINISH FLOOR	DBL.	DOUBLE	HC.	HANDICAPPED	OPP.	OPPOSITE	T.O.C.	TOP OF CURB
ADJ.	ADJUSTABLE	DWGS.	DRAWINGS	HDWR.	HARDWARE	O.D.	OUTSIDE DIAMETER	T.O.F.	TOP OF FOOTING
ALUM.	ALUMINUM	EA.	EACH	HSA.	HEADED STUD ANCHOR	O.F.	OUTSIDE FACE	T.O.S.	TOP OF SLAB OR SIDEWALK
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	E.F.	EACH FACE	HVAC	HEATING/VENTILATION/AIR CONDITIONING	O.H.	OVERHEAD	T.O.W.	TOP OF WALL
AB	ANCHOR BOLT	E.S.	EACH SIDE	HT.	HEIGHT	OHD	OVERHEAD DOOR	TYP.	TYPICAL
<	ANGLE	E.W.	EACH WAY	H.M.	HOLLOW METAL	PNT	PAINTED OR PAINT	U.N.O.	UNLESS NOTED OTHERWISE
APPROX.	APPROXIMATE	EWC	ELECTRIC WATER COOLER	HORIZ.	HORIZONTAL	PTN	PARTITION	VEN.	VENEER
ARCH.	ARCHITECTURAL OR ARCHITECT	EL.	ELEVATION	HR.	HOUR	PERP.	PERPENDICULAR	VERT.	VERTICAL
ARCH.	ARCHITECTURAL OR ARCHITECT	ELEV.	ELEVATION	HYD.	HYDRANT	PLAM	PLASTIC LAMINATE	VEST.	VESTIBULE
@	AT	EQ.	EQUAL	IN.	INCHES OR INCH	PL	PLATE	VCT	VINYL COMPOSITION TILE
BP	BASE PLATE	EXIST.	EXISTING	INFO.	INFORMATION	PCF	POUNDS PER CUBIC FOOT	WWF	WELDED WIRE FABRIC
BRG.	BEARING	EXP.	EXPANSION	I.D.	INSIDE DIAMETER	PLF	POUNDS PER LINEAL FOOT	W/	WITH
B.M.	BENCHMARK	E.J.	EXPANSION JOINT	I.F.	INSIDE FACE	PSF	POUNDS PER SQUARE FOOT	WD.	WOOD
BTWN	BETWEEN	EXT.	EXTERIOR	INSUL.	INSULATION	PSI	POUNDS PER SQUARE INCH		
BITUM.	BITUMINOUS	FT.	FEET OR FOOT	INT.	INTERIOR	PROT.	PROTECTION		
BD.	BOARD	FIN	FINISH	LAV.	LAVATORY	QTY.	QUANTITY		
BOT.	BOTTOM	FF	FINISH FLOOR	LT.	LIGHT	RAD.	RADIUS		
B.O.	BOTTOM OF	FE	FIRE EXTINGUISHER	LT. WT.	LIGHT WEIGHT	REINF.	REINFORCED		
BLDG	BUILDING	FEC	FIRE EXTINGUISHER CABINET	MAINT.	MAINTENANCE	REQ.	REQUIRED		
CLG.	CEILING	FLR.	FLOOR	MANUF.	MANUFACTURER	R.D.	ROOF DRAIN		
CL	CENTER LINE	FD	FLOOR DRAIN	MFR.	MANUFACTURER	RM.	ROOM		
CT	CERAMIC TILE	FTG.	FOOTING	M.O.	MASONRY OPENING	R.O.	ROUGH OPENING		
CLR.	CLEAR	FDN.	FOUNDATION	MAT.	MATERIAL	SCHED.	SCHEDULE		
COL	COLUMN	GA.	GAGE/GAUGE	MAX.	MAXIMUM	SHT.	SHEET		
CONC	CONCRETE	GAL.	GALLON	MECH.	MECHANICAL	SHR.	SHOWER		
CMU	CONCRETE MASONRY UNIT	GPM	GALLONS PER MINUTE	MTL.	METAL	SIM.	SIMILAR		
CONST.	CONSTRUCTION	GALV.	GALVANIZED	MIN.	MINIMUM	STC	SOUND TRANSMISSION COEFFICIENT		
CONT.	CONTINUOUS	GOVT.	GOVERNMENT	MISC.	MISCELLANEOUS	SPEC.	SPECIFICATION		
C.J.	CONTROL JOINT	GFCI	GOVERNMENT FURNISHED CONTRACTOR INSTALLED	N.I.C.	NOT IN CONTRACT	STD.	STANDARD		
COORD.	COORDINATE	GFGI	GOVERNMENT FURNISHED GOVERNMENT INSTALLED	N.T.S.	NOT TO SCALE	STRUCT.	STRUCTURAL		
DBA	DEFORMED BAR ANCHOR	GND.	GROUND	#	NUMBER	SUPER.	SUPERVISOR		
DEPT	DEPARTMENT	GYP. BD.	GYPSUM BOARD	O.C.	ON CENTER	SUSP.	SUSPENDED		
DTL.	DETAIL					THRU	THROUGH		
Ø	DIAMETER					T.O.	TOP OF		

GRAPHIC SYMBOLS

	GRID	GRID LINES
	DETAIL SYMBOL	DETAIL NUMBER / SHEET WHERE DETAIL IS DRAWN
	BUILDING SECTION SYMBOL	SECTION REFERENCE / SHEET WHERE SECTION IS DRAWN
	WALL SECTION SYMBOL	SECTION REFERENCE / SHEET WHERE SECTION IS DRAWN
	EXTERIOR ELEVATION SYMBOL	ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
	INTERIOR ELEVATION SYMBOL	ELEVATION IDENTIFICATION SHEET WHERE ELEVATION IS DRAWN
	ELEVATION CONTROL POINT	OR DATUM POINT
	DOOR TAG	DOOR NUMBER
	WINDOW TAG	WINDOW OR STOREFRONT NUMBER
	ROOM TAG	ROOM NAME / ROOM NUMBER
	REVISION TAG	
	VIEW NAME	VIEW TITLE / VIEW NUMBER / SHEET WHERE VIEW IS LOCATED / VIEW NAME / VIEW SCALE

MATERIALS/LEGEND

	CONCRETE MASONRY UNIT
	FACE BRICK
	CONCRETE (POURED IN PLACE)
	GYPSUM BOARD OR SETTING BEDS
	INSULATION (BATT & BLANKET)
	INSULATION (RIGID/SEMI-RIGID)
	PLYWOOD
	CONTINUOUS ROUGH WOOD
	BLOCKING, ROUGH WOOD
	METAL (LARGE SCALE)
	GRAVEL
	EARTH
	COMPACTED FILL
	QUARRY/CERAMIC TILE
	FIREPROOFING
	WOOD

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875 SOUTH UNIVERSITY PARK BLVD.
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4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.:
GSBS PROJECT NO.:
ISSUED DATE:

14297810
2014.095.00
03/09/2015

INDEX

REVISIONS:

CODE ANALYSIS

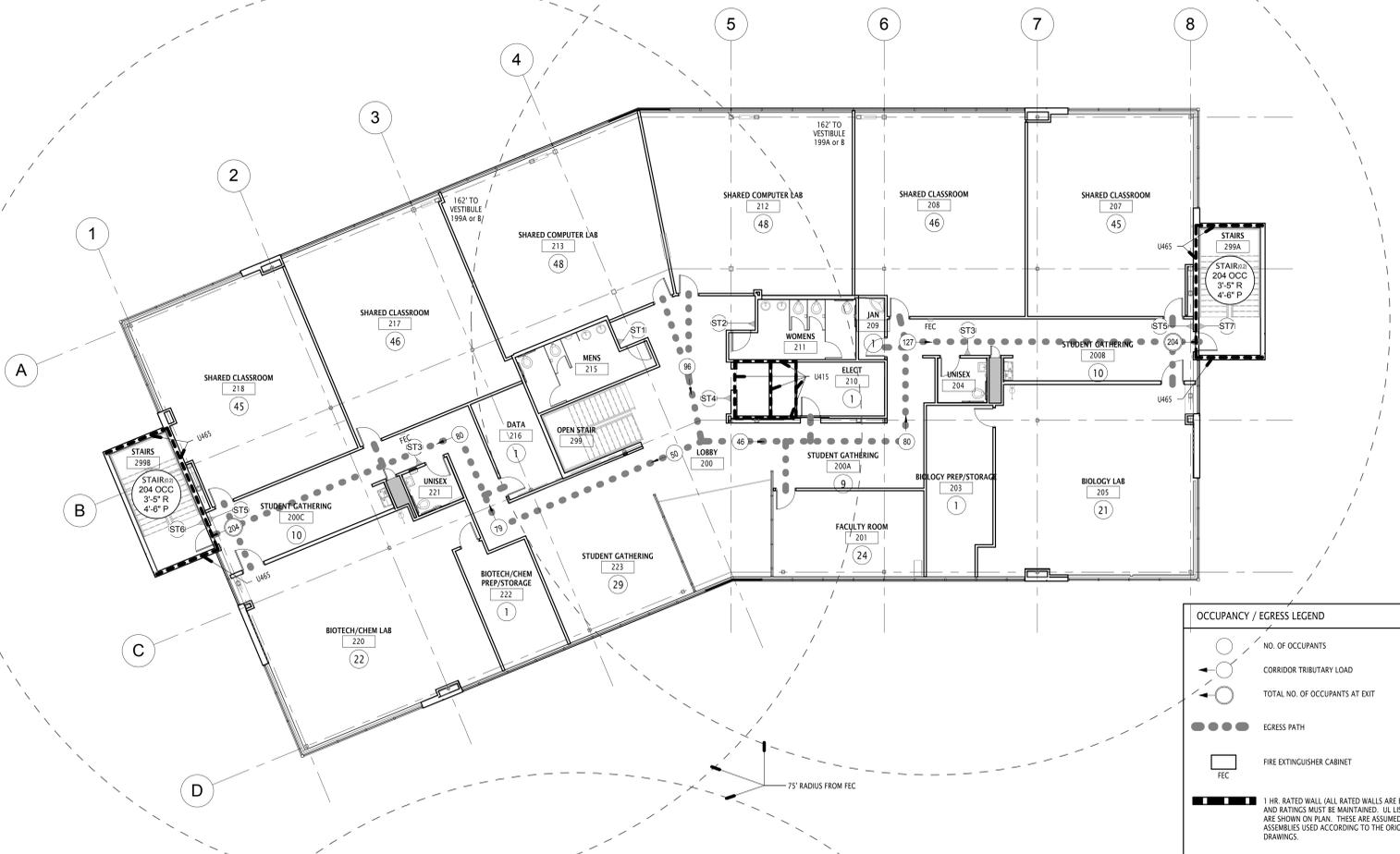
APPLICABLE CODES			
Code	Year	Year	
International Building Code	2012	National Electrical Code	2011
International Mechanical Code	2012	Uniform Code for Building Conservation	2012
International Fuel Gas Code	2012	ADA Accessibility Guidelines	ANSI 2009
International Plumbing Code	2012	International Energy Conservation Code	2012
International Fire Code	2012	ASHRAE 90.1	

- A. Occupancy and Group: E B
 Change in Use: Yes X No Mixed Occupancy: Yes No X
 Special Use and Occupancy (e.g. High Rise, Covered Walk):
- B. Seismic Design Category: D Design Wind Speed: 80 mph
- C. Type of Construction (circle one):
 I A I B II A II B III A III B IV A IV B V A V B
- D. Fire Resistance Rating: Requirements for the Exterior Walls based on the fire separation distance (in hours):
 North: NA South: NA East: NA West: NA
- E. Mixed Occupancies: Nonseparated Uses:
- F. Sprinklers: Provided: Yes No
 Required: Yes No See FS Sheets
 Type of Sprinkler System (IBC 903.3.1):
- G. Number of Stories: 2 Building Height: 36'-9"
- H. Actual Area per Floor (square feet): 27,083 SF
- I. Tabular Area: (table 503):
 B: 9,000 SF, 2 stories, 40'
 E: 9,500 SF, 1 story, 40'
- J. Area Modifications:
 Sprinkler Height Increase: B: 60' E: 60'
 Sprinkler Story Increase: B: 3 stories E: 2 stories
 Sprinkler Area Increase: B: 9,000 (2) = 18,000 SF E: 9,500 (2) = 19,000 SF
- K. Fire Resistance Rating Requirements for Building Elements (hours):

Element	Assembly Listing	Hours	Assembly Listing	Hours
Exterior Bearing Walls	Floors - Ceiling Floors			
Interior Bearing Walls	Roofs - Ceiling Roofs			
Exterior Non-Bearing Walls	Exterior Doors and Windows			
Structural Frame	Shaft Enclosures		1	EXST.
Partitions - Permanent	Fire Walls			
Fire Barriers	Fire Partitions			
	Smoke Partitions			

- L. Design Occupant Load: 680
 Exit Width Required: 8'-6" Exit Width Provided: 12'-0"
- M. Minimum Number of Required Plumbing Facilities:
 a) Water Closets - Required (m) 8 (f) 8 Provided (m) 8 (f) 8
 b) Urinals - Required (m) Provided (m)
 c) Lavatories - Required (m) 6 (f) 6 Provided (m) 6 (f) 6
 d) Bath Tub or Showers:
 e) Drinking Fountains: 7 Service Sinks: 1

- FOOTNOTES:
 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V, ADA guidelines and specific reference to the International Building Code Accessibility Chapters, the more requirements shall govern.
 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not all limited to:
 a) High Rise Requirements.
 b) Atriums.
 c) Performance Based Criteria.
 d) Means or Egress Analysis.
 e) Fire Assembly Locator Sheet.
 f) Exterior and Interior Accessibility Route.
 g) Fire Stopping, Including Tested Design Number.



2 CODE PLAN - LEVEL 2
 G1102 3/32" = 1'-0"

OCCUPANCY / EGRESS LEGEND

- NO. OF OCCUPANTS
- CORRIDOR TRIBUTARY LOAD
- TOTAL NO. OF OCCUPANTS AT EXIT
- EGRESS PATH
- FIRE EXTINGUISHER CABINET
- FEC
- 1 HR. RATED WALL (ALL RATED WALLS ARE EXISTING AND RATINGS MUST BE MAINTAINED. UL LISTINGS ARE SHOWN ON PLAN. THESE ARE ASSUMED RATING ASSEMBLIES USED ACCORDING TO THE ORIGINAL DRAWINGS.
- THESE AREAS HAVE NUMEROUS PENETRATIONS THROUGH THE FLOOR AT LEVEL 2. PROTECT THE ANNULAR SPACE AROUND ALL PENETRATING ELEMENTS WITH AN APPROVED NON-COMBUSTIBLE MATERIAL THAT RESISTS THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION AS REQUIRED IN IBC 2012 717.5.3.
- PROVIDE FIRE STOPPING AS REQUIRED TO MAINTAIN RATINGS.
- PROVIDE FIRE STOPPING AT ANY PENETRATIONS IN RATED ASSEMBLIES AND IN LOCATIONS THAT CANNOT BE SEALED TO RATED STANDARDS SUCH AS HEADS OF RATED WALLS RUN TO EXPOSED DECK ABOVE.
- EXISTING DRAWINGS INDICATE THAT THESE RATED SYSTEMS ARE SEPARATE WALL TYPES THAT HAVE, IN MANY INSTANCES, BEEN COVERED WITH FURRING WALLS FOR FINAL FINISH. NEW CONSTRUCTION REQUIRES REMOVAL OF THESE FURRING WALLS AT SOME LOCATIONS. ALERT ARCHITECT TO ANY UNDISCOVERED CONDITIONS RELATED TO THESE RATING REQUIREMENTS.
- DEFERRED SUBMITTALS:
 - FIRE SPRINKLERS: APRIL 2015
 - FIRE ALARM: APRIL 2015
 - SEISMIC BRACING FOR MECHANICAL: APRIL 2015
 - SEISMIC BRACING FOR ELECTRICAL: APRIL 2015
 - SEISMIC BRACING FOR PLUMBING: APRIL 2015
 - SEISMIC BRACING FOR MILLWORK: APRIL 2015



1 CODE PLAN - LEVEL 1
 G1102 3/32" = 1'-0"

Sign Room Name	Sign Type	Copy Text	Copy Text Size	Braille Text	Height	Width	Mounting Height	Furnished By	Installed By
MENS 103	ST1	MEN	5/8"	MEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
MENS 117	ST1	MEN	5/8"	MEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
MENS 215	ST1	MEN	5/8"	MEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
WOMENS 104	ST2	WOMEN	5/8"	WOMEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
WOMENS 113/	ST2	WOMEN	5/8"	WOMEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
WOMENS 211	ST2	WOMEN	5/8"	WOMEN	8"	7"	5' - 0"	OWNER	CONTRACTOR
JUNISEX 204	ST3	RESTROOM	5/8"	RESTROOM	8"	7"	5' - 0"	OWNER	CONTRACTOR
UNISEX 221	ST3	RESTROOM	5/8"	RESTROOM	8"	7"	5' - 0"	OWNER	CONTRACTOR
LOBBY 100	ST4	IN CASE OF FIRE, USE STAIRS	5/8"	IN CASE OF FIRE, USE STAIRS	8"	7"	5' - 0"	OWNER	CONTRACTOR
LOBBY 200	ST4	IN CASE OF FIRE, USE STAIRS	5/8"	IN CASE OF FIRE, USE STAIRS	8"	7"	5' - 0"	OWNER	CONTRACTOR
HALLWAY 100	ST5	STAIR	5/8"	STAIR	8"	7"	5' - 0"	OWNER	CONTRACTOR
HALLWAY 100	ST5	STAIR	5/8"	STAIR	8"	7"	5' - 0"	OWNER	CONTRACTOR
STUDENT GATHERING 200C	ST5	STAIR	5/8"	STAIR	8"	7"	5' - 0"	OWNER	CONTRACTOR
STUDENT GATHERING 200B	ST5	STAIR	5/8"	STAIR	8"	7"	5' - 0"	OWNER	CONTRACTOR
STAIRS 199B	ST6	NORTH STAIR NO ROOF ACCESS LEVEL 1 EXIT HERE LEVELS 1 TO 2	SEE SIGN TYPE	NORTH STAIR LEVEL 1 EXIT HERE LEVELS 1 TO 2	1' - 6"	1' - 4"	5' - 0"	OWNER	CONTRACTOR
STAIRS 299B	ST6	NORTH STAIR NO ROOF ACCESS LEVEL 2 EXIT HERE LEVELS 1 TO 2	SEE SIGN TYPE	NORTH STAIR LEVEL 2 EXIT HERE LEVELS 1 TO 2	1' - 6"	1' - 4"	5' - 0"	OWNER	CONTRACTOR
STAIRS 199A	ST7	SOUTH STAIR ROOF ACCESS LEVEL 1 EXIT HERE LEVELS 1 TO 2	SEE SIGN TYPE	SOUTH STAIR LEVEL 1 EXIT HERE LEVELS 1 TO 2	1' - 6"	1' - 4"	5' - 0"	OWNER	CONTRACTOR
STAIRS 299A	ST7	SOUTH STAIR ROOF ACCESS LEVEL 2 EXIT HERE LEVELS 1 TO 2	SEE SIGN TYPE	SOUTH STAIR LEVEL 2 EXIT HERE LEVELS 1 TO 2	1' - 6"	1' - 4"	5' - 0"	OWNER	CONTRACTOR



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OWNER PROJECT NO.: 14297810
 GSBS PROJECT NO.: 2014.095.00
 ISSUED DATE: 03/09/2015

CODE SHEET

REVISIONS:

COMcheck Software Version 3.9.3
Interior Lighting and Power Compliance Certificate

90.1 (2010) Standard

Section 1: Project Information

Project Type: Alteration
Project Title: WSU DAVIS CAMPUS D13 REMODEL
Construction Site: 875 SOUTH UNIVERSITY PARK BLVD. CLEARFIELD, UT 84041
Owner/Agent:
Designer/Contractor: Dave Wesemann, PE Spectrum Engineers 325 S State Street Suite 400 Salt Lake City, UT 84111 801-328-5151

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts /ft ²	D Allowed Watts (B x C)
Common Space Types: Classroom/Lecture/Training	27371	1.24	33940
Total Allowed Watts =			33940

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types: Classroom/Lecture/Training (27371 sq.ft.)				
LED 1: DX-1: Other:	1	42	30	1260
LED 1 copy 1: DX-1E: Other:	1	11	30	330
LED 3: G-2: Other:	1	4	40	160
LED 4: G-3: Other:	1	45	20	900
LED 4 copy 1: G-3E: Other:	1	19	20	380
LED 6: G-4: Other:	1	171	40	6840
LED 6 copy 1: G-4E: Other:	1	32	40	1280
LED 4 copy 2: G-3E: Other:	1	4	20	80
LED 9: S-1: Other:	1	10	41	410
LED 9 copy 1: S-1E: Other:	1	4	41	164
LED 11: W-4: Other:	1	19	40	760
LED 11 copy 1: W-4E: Other:	1	4	40	160
LED 13: WB-10: Other:	1	4	28	112
LED 14: WB-10E: Other:	1	7	28	196
Total Proposed Watts =			13032	

Interior Lighting PASSES

Section 4: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 90.1 (2010) Standard requirements in COMcheck Version 3.9.3 and to comply with the history requirements in the Requirements Checklist.

David E. Wesemann, PE *[Signature]* 3/9/2015

Project Title: WSU DAVIS CAMPUS D13 REMODEL Report date: 03/09/15
Data filename: P:\2014\20140582\Quality_Control\Design_and_Calculations\26Electrical\COMCHECK\WSU DAVIS CAMPUS REMODEL COMCHECK.cck Page 1 of 2

Name - Title Signature Date

Section 5: Post Construction Compliance Statement

Record Drawings and Operating and Maintenance Manuals:
 1. Construction documents with record drawings and operating and maintenance manuals provided to the owner.

Lighting Designer or Contractor Name Signature Date

Project Title: WSU DAVIS CAMPUS D13 REMODEL Report date: 03/09/15
Data filename: P:\2014\20140582\Quality_Control\Design_and_Calculations\26Electrical\COMCHECK\WSU DAVIS CAMPUS REMODEL COMCHECK.cck Page 2 of 2

COMcheck Software Version 3.9.3
Inspection Checklist
Energy Code: 90.1 (2010) Standard

Requirements: 84.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

90.1 (2010) Standard	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]	At least 50% of all 125 volt 15- and 20-amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Note: WSU has requested an exemption to this requirement
9.4.1.1 [EL11]	Automatic controls to shut off all building lighting installed in buildings >5,000 ft ² .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: where auto shutoff would endanger safety or security.
9.4.1.2 [EL12]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.3 [EL11]	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.4 [EL12]	Primary sidelighted areas >=250 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.5 [EL13]	Enclosed spaces with daylight area under skylights and rooftop monitors >900 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.6 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.2 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.6.2 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Data WSU DAVIS CAMPUS D13 REMODEL Report date: 03/09/15
P:\2014\20140582\Quality_Control\Design_and_Calculations\26Electrical\COMCHECK\WSU DAVIS CAMPUS REMODEL COMCHECK.cck Page 1 of 4

90.1 (2010) Standard	Plan Review	Complies?	Comments/Assumptions
4.2.2.8.4.1, 1.3.5.4.1, 2.8.7 [PR6]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2.9.4.1, 4.9.7 [PR4]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Data WSU DAVIS CAMPUS D13 REMODEL Report date: 03/09/15
P:\2014\20140582\Quality_Control\Design_and_Calculations\26Electrical\COMCHECK\WSU DAVIS CAMPUS REMODEL COMCHECK.cck Page 2 of 4

90.1 (2010) Standard	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]	At least 50% of all 125 volt 15- and 20-amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply. Note: WSU has requested an exemption to this requirement
9.4.1.1 [EL11]	Automatic controls to shut off all building lighting installed in buildings >5,000 ft ² .	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: where auto shutoff would endanger safety or security.
9.4.1.2 [EL12]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.3 [EL11]	Parking garage lighting is equipped with required lighting controls and daylight transition zone lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
9.4.1.4 [EL12]	Primary sidelighted areas >=250 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.5 [EL13]	Enclosed spaces with daylight area under skylights and rooftop monitors >900 ft ² are equipped with required lighting controls.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.6 [EL4]	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.2 [EL6]	Exit signs do not exceed 5 watts per face.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.6.2 [EL8]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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P:\2014\20140582\Quality_Control\Design_and_Calculations\26Electrical\COMCHECK\WSU DAVIS CAMPUS REMODEL COMCHECK.cck Page 3 of 4

90.1 (2010) Standard	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [F16]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
8.7.2 [F17]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	
9.2.2.3 [F18]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the Interior Lighting fixture schedule for values.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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SEE MECHANICAL SHEETS FOR MECHANICAL COMCHECK.

WSU DAVIS CAMPUS D13 REMODEL

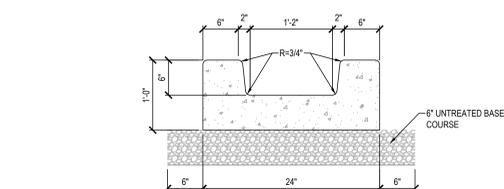
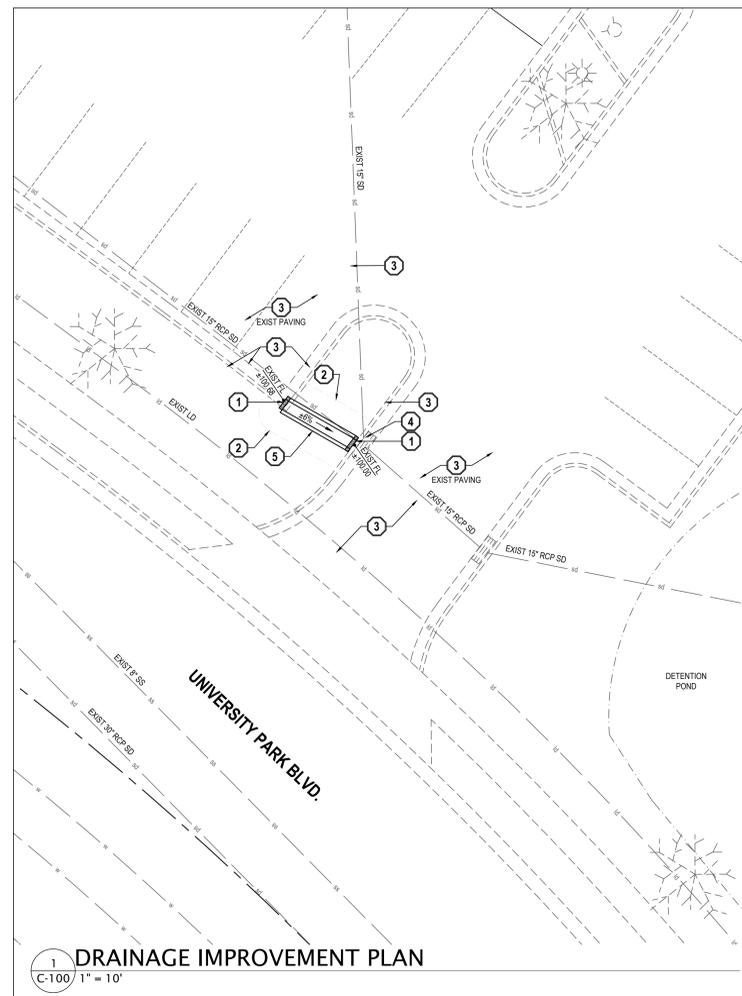
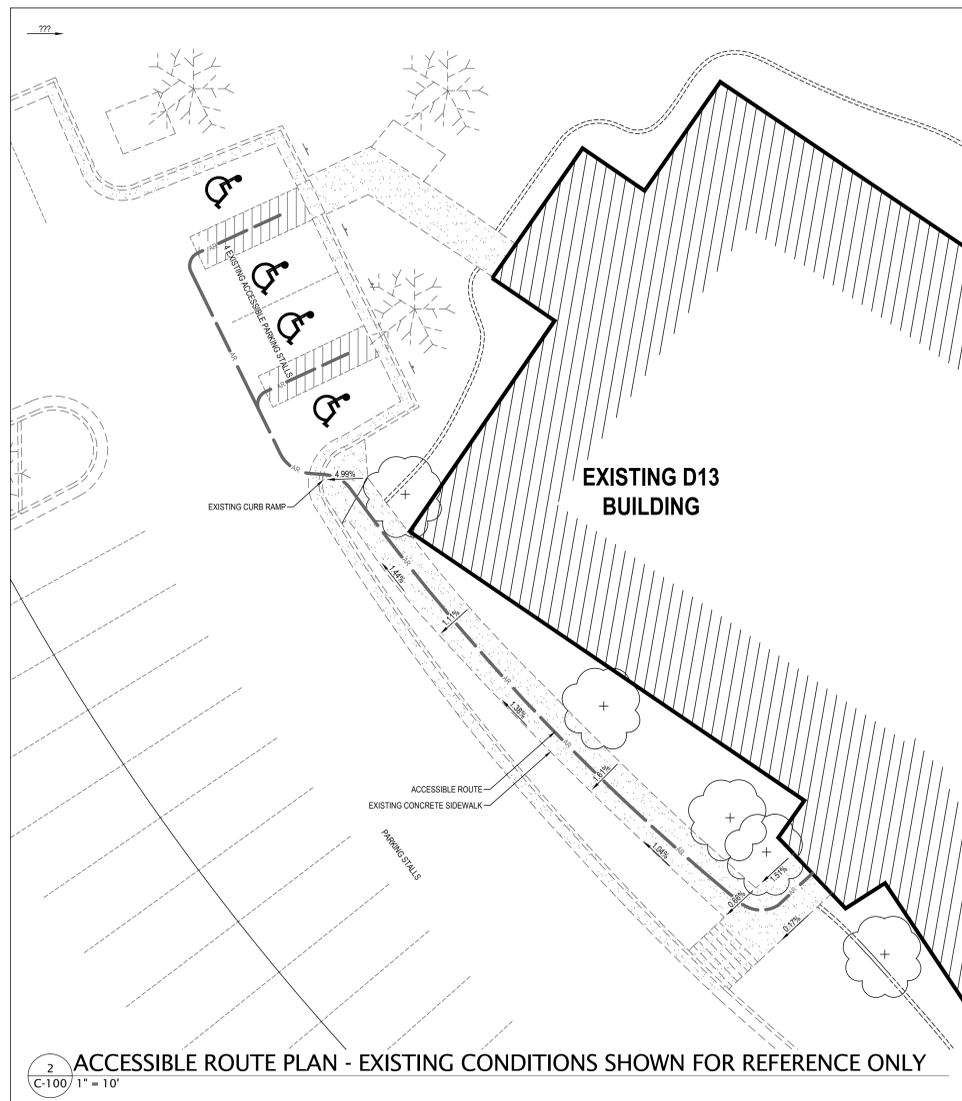
875 SOUTH UNIVERSITY PARK BLVD. CLEARFIELD, UT 84041

DFCM

4100 STATE OFFICE BUILDING 450 NORTH STATE STREET SALT LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

ELECTRICAL COMCHECK



REVISIONS:

NO.	DESCRIPTION

SALT LAKE CITY
45 W. 10000 S., Suite 500
Sandy, Utah 84070
Phone: 801.255.0529
Fax: 801.255.4449

LAYTON
Phone: 801.547.1100

TOOELE
Phone: 435.843.3590

CEDAR CITY
Phone: 435.865.1453

RICHFIELD
Phone: 435.896.2983

COLORADO SPRINGS
Phone: 719.476.0119

WWW.ENSIGNUTAH.COM

GENERAL NOTES

- ALL WORK TO COMPLY WITH THE GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.
- EXISTING UNDERGROUND UTILITIES AND IMPROVEMENTS ARE SHOWN IN THEIR APPROXIMATE LOCATIONS BASED UPON RECORD INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. LOCATIONS MAY NOT HAVE BEEN VERIFIED IN THE FIELD AND NO GUARANTEE IS MADE AS TO THE ACCURACY OR COMPLETENESS OF THE INFORMATION SHOWN. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXISTENCE AND LOCATION OF THE UTILITIES SHOWN ON THESE PLANS OR INDICATED IN THE FIELD BY LOCATING SERVICES. ANY ADDITIONAL COSTS INCURRED AS A RESULT OF THE CONTRACTOR'S FAILURE TO VERIFY THE LOCATIONS OF EXISTING UTILITIES PRIOR TO THE BEGINNING OF CONSTRUCTION IN THEIR VICINITY SHALL BE BORNE BY THE CONTRACTOR AND ASSUMED INCLUDED IN THE CONTRACT. THE CONTRACTOR IS TO VERIFY ALL CONNECTION POINTS WITH THE EXISTING UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. IF CONFLICTS WITH EXISTING UTILITIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO CONSTRUCTION TO DETERMINE IF ANY FIELD ADJUSTMENTS SHOULD BE MADE.
- ALL SURFACE IMPROVEMENTS DISTURBED BY CONSTRUCTION SHALL BE RESTORED OR REPLACED, INCLUDING TREES AND DECORATIVE SHRUBS, SOIL, FENCES, WALLS AND STRUCTURES, WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THE CONTRACT DOCUMENTS.
- ALL CONSTRUCTION SIGNAGE, BARRICADES, TRAFFIC CONTROL DEVICES, ETC. SHALL CONFORM TO THE LATEST EDITION OF THE M.U.T.C.D. THE CONTRACTOR WILL MAINTAIN SUCH SO THAT THEY ARE PROPERLY PLACED AND VISIBLE AT ALL TIMES.
- SIDEWALKS AND CURBS DESIGNATED TO BE DEMOLISHED SHALL BE DEMOLISHED TO THE NEAREST EXPANSION JOINT, MATCHING THESE PLANS AS CLOSELY AS POSSIBLE.
- THE CONTRACTOR IS TO PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, AND SIGNS, ETC. UNLESS OTHERWISE NOTED ON THESE PLANS.
- NOTIFY ENGINEER OF ANY DISCREPANCIES IN DESIGN OR STAKING BEFORE PLACING CONCRETE OR ASPHALT OR STORM DRAIN STRUCTURES.
- ALL STORM DRAIN INFRASTRUCTURE TO BE INSTALLED PER GOVERNING AGENCY OR APWA STANDARD PLANS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL ADJUST TO GRADE ALL EXISTING UTILITIES AS NEEDED PER LOCAL GOVERNING AGENCY'S STANDARDS AND SPECIFICATIONS.

SCOPE OF WORK:

- PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:
- SAWCUT EXISTING BACK OF CURB TO MATCH PROFILE OF PROPOSED CONCRETE WATERWAY. REMOVE AND PROPERLY DISPOSE OF CONCRETE WASTE.
 - REMOVE EXISTING LANDSCAPING IN THIS AREA AND RESTORE TO ORIGINAL CONDITION AFTER INSTALLATION OF WATERWAY. RETROFIT AND REPAIR IRRIGATION SYSTEM AS NEEDED.
 - PROTECT AND PRESERVE ALL EXISTING IMPROVEMENTS, UTILITIES, STRUCTURES, PAVEMENT, SIGNS, ETC. (TYPICAL UNLESS OTHERWISE NOTED).
 - CLEAN AND REMOVE ALL DEBRIS FROM EXISTING CATCH BASIN AT PROJECT COMPLETION.
 - ±11 L.F. CONCRETE WATERWAY PER DETAIL AC-100. MATCH FLOW LINES OF EXISTING GUTTER AT EACH END. INSTALL JOINT SEALANT TYPE HAS1 (OR EQUIVALENT) AT EACH END BETWEEN NEW WATERWAY AND EXISTING CURBING.



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4110 STATE OFFICE
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LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

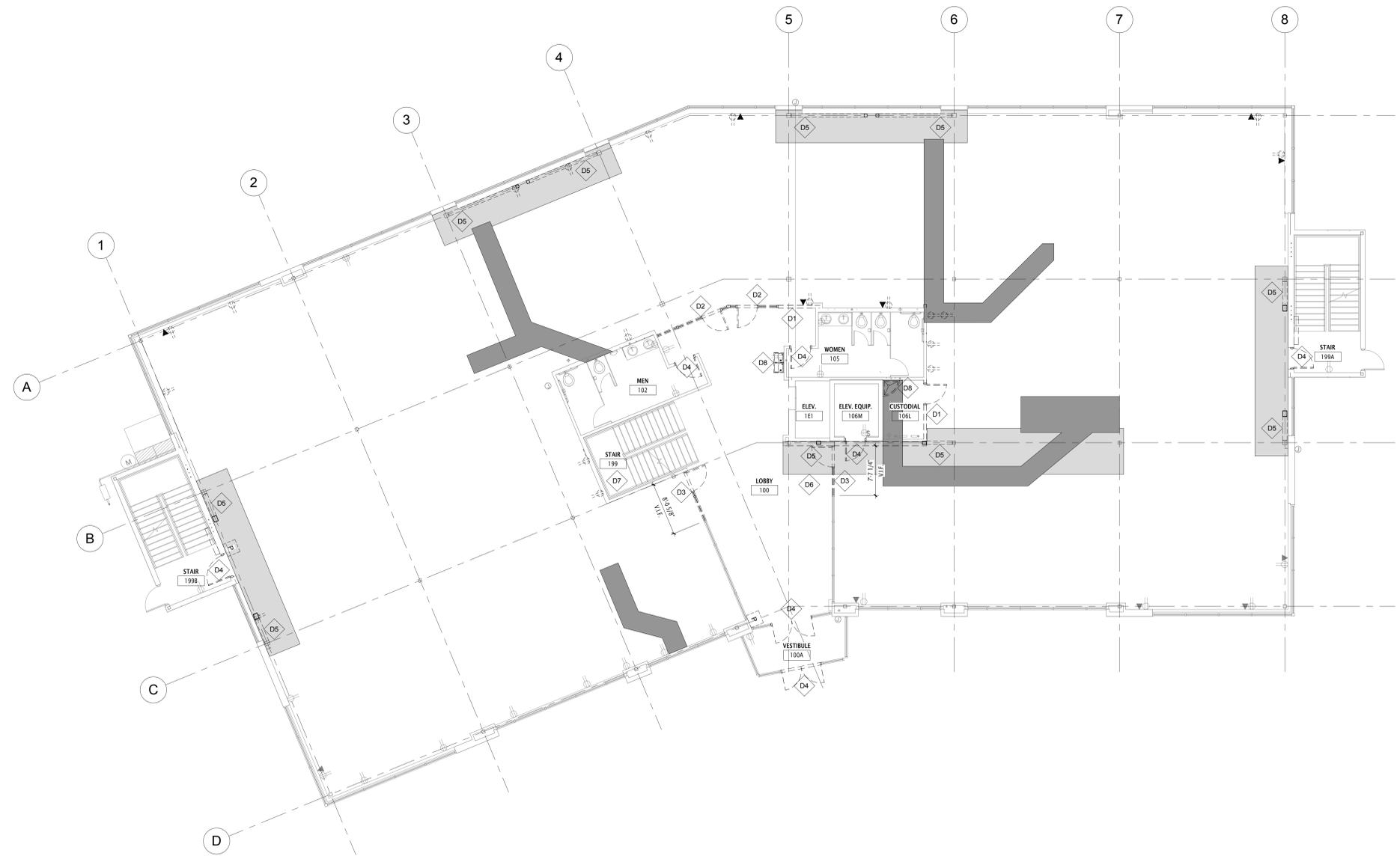
**DRAINAGE IMPROVEMENT
PLAN AND
ACCESSIBLE ROUTE PLAN**



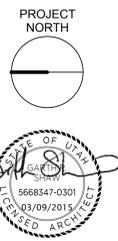
REVISIONS:

DEMOLITION KEY NOTES	
Plan Note	COMMENTS
D1	REMOVE EXISTING WALL AND ALL MECHANICAL AND ELECTRICAL FIXTURES/DEVICES AND DOOR, FRAME AND HARDWARE IN WALL TO BE REMOVED. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION.
D2	REMOVE EXISTING STOREFRONT COMPLETELY.
D3	REMOVE EXISTING STOREFRONT AS SHOWN. LEAVE EXTENT SHOWN TO REMAIN IN PLACE AND PROVIDE FINISHED END CAPS.
D4	REMOVE EXISTING DOOR FROM FRAME. REPAIR FRAME AS NECESSARY IN PREPARATION FOR NEW DOOR INSTALLATION.
D5	REMOVE STRUCTURAL BRACED FRAME. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING WALLS COVERING BRACE FRAMES AS NECESSARY TO COMPLETE WORK. MAINTAIN EXISTING AREAS TO REMAIN AS SHOWN AND ALERT ARCHITECT TO ANY CONFLICTS.
D6	REMOVE EXISTING LOBBY FLOORING AS NECESSARY FOR REMOVAL AND INSTALLATION OF STRUCTURAL ELEMENTS. REINSTALL TILE AFTER REQUIRED STRUCTURAL WORK IS COMPLETED. EXISTING FLOORING IN LOBBY 100 TO REMAIN IN ALL OTHER AREAS. PROTECT AS NECESSARY.
D7	REMOVE EXISTING CARPET FLOORING AND ADHESIVE. SCRAPE AND CLEAN SUBSTRATE AS REQUIRED FOR INSTALLATION OF NEW FLOORING.
D8	REMOVE EXISTING FIXTURE. REFER TO PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION.
D9	REMOVE EXISTING ACOUSTICAL PANEL CEILING AND GRID. HARD LID SOFFITS TO REMAIN. REPAIR ALL SOFFITS AS NECESSARY.

DEMOLITION NOTES:	DEMOLITION LEGEND:
<p>SHADED AREA INDICATES LOCATION OF NUMEROUS FLOOR PENETRATIONS AND OTHER INTERVENTIONS IN SLAB-ON-GRADE AND SLAB-ON-DECK FOR MECHANICAL PLUMBING AND ELECTRICAL. DEMOLITION AND NEW CONSTRUCTION. MINIMIZE DEMOLITION AS MUCH AS POSSIBLE TO COMPLETE WORK AND SIZE EACH PENETRATION FOR THE PENETRATING ELEMENT. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.</p> <p>SHADED AREA INDICATES SLAB DEMO REQUIRED FOR STRUCTURAL WORK. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.</p> <p>1. CONTRACTOR TO ASSESS ALL DAMAGE TO FINISHES TO REMAIN PRIOR TO BIDDING. AS A PART OF THIS CONTRACT ALL DAMAGE TO THESE FINISHES WILL BE REPAIRED. INCLUDE ALL COSTS IN BID.</p> <p>2. WHERE DEMOLISHED ELEMENTS MEET ELEMENTS TO REMAIN PROTECT ALL ELEMENTS/FINISHES AS NECESSARY TO MAINTAIN THEIR CURRENT CONDITION.</p> <p>3. IN ALL WALLS SHOWN TO REMAIN REMOVE DEVICES AND ASSOCIATED WIRING AS REQUIRED AND PATCH AND REPAIR WALLS. AFTER DEMOLITION IS COMPLETE REPAIR ALL DAMAGED AREAS ON WALL TO REMAIN AND RETURN ALL EXPOSED WALL SURFACES TO A LEVEL 4 FINISH OR BETTER.</p> <p>4. AFTER DEMOLITION IS COMPLETE PATCH AND REPAIR ALL HOLES IN SLAB-ON-GRADE AND SLAB ON DECK.</p> <p>5. STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.</p>	<p>--- DEMOLISHED WALL</p> <p>— EXISTING WALL TO REMAIN</p> <p>⏏ DEMOLISHED POWER OUTLET</p> <p>⏏ EXISTING POWER OUTLET TO REMAIN</p> <p>⏏ DEMOLISHED CONTROL SWITCH</p> <p>⏏ EXISTING CONTROL SWITCH TO REMAIN</p> <p>⏏ DEMOLISHED COMMUNICATION OUTLET</p> <p>⏏ EXISTING COMMUNICATION OUTLET TO REMAIN</p> <p>⏏ DEMOLISHED FIRE ALARM PULL STATION</p> <p>— EXISTING STRUCTURAL BRACE TO BE REMOVED AND REPLACED. SEE STRUCTURAL DRAWINGS FOR ALL DEMOLITION REQUIREMENTS.</p> <p>1. REFER TO SPECIFICATION SECTION 017419 CONSTRUCTION, WASTE MANAGEMENT AND DISPOSAL FOR MORE INFORMATION ON WASTE MANAGEMENT.</p> <p>2. REFER TO SPECIFICATION SECTION 024119 SELECTIVE DEMOLITION FOR MORE INFORMATION ON DEMOLITION ACTIVITIES AND EXPECTED RESULTS.</p>



1 DEMOLITION PLAN - LEVEL 1
AD101/ 1/8" = 1'-0"



**WSU DAVIS
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875 SOUTH UNIVERSITY PARK BLVD.
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DFCM

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LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

DEMO FLOOR PLAN - LEVEL 1

REVISIONS:

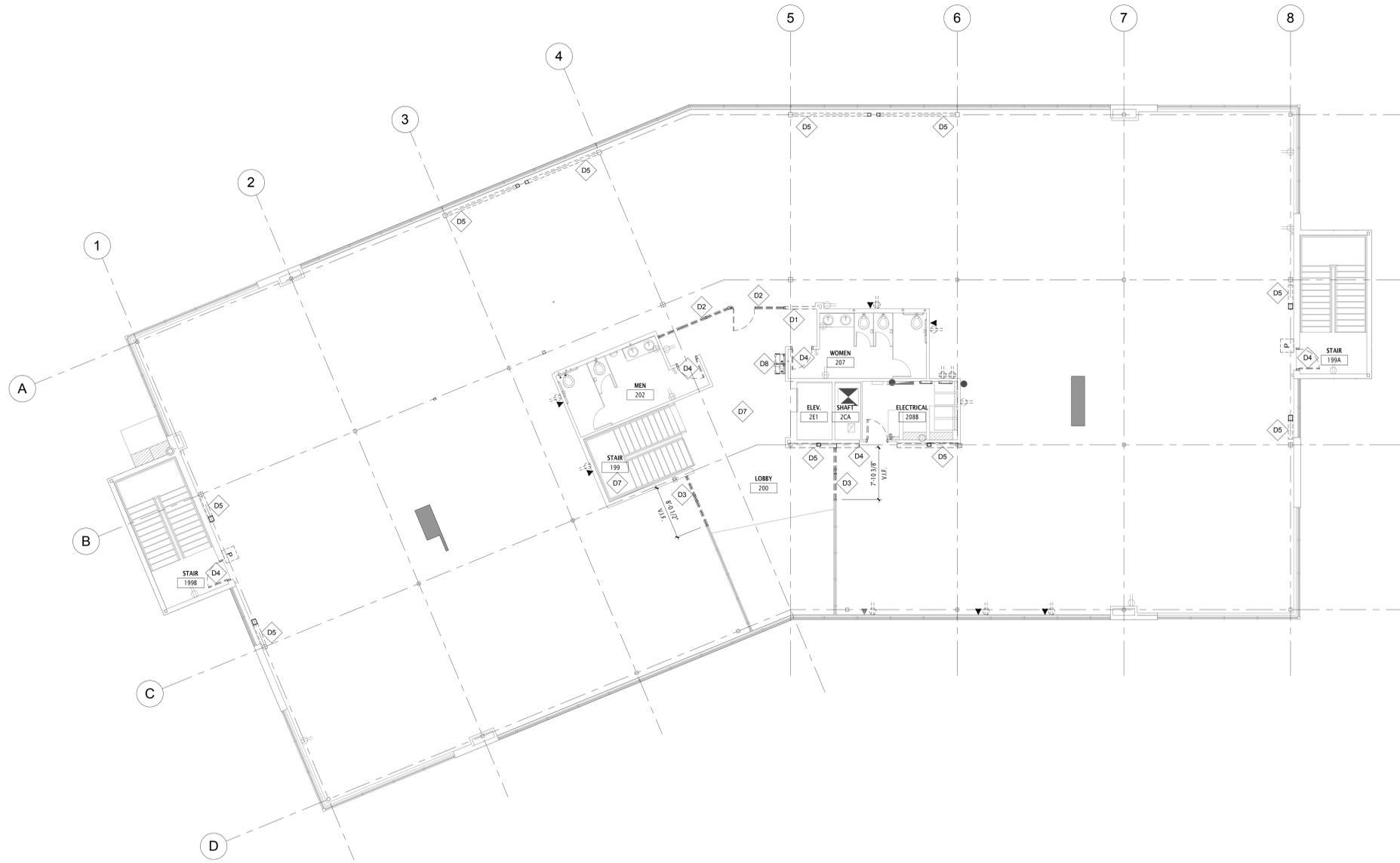
DEMOLITION KEY NOTES	
Plan Note	COMMENTS
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D3	REMOVE EXISTING STOREFRONT AS SHOWN. LEAVE EXIST SHOWN TO REMAIN IN PLACE AND PROVIDE FINISHED END CAPS.
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D5	REMOVE STRUCTURAL BRACED FRAME. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING WALLS COVERING BRACE FRAMES AS NECESSARY TO COMPLETE WORK. MAINTAIN EXISTING AREAS TO REMAIN AS SHOWN AND ALERT ARCHITECT TO ANY CONFLICTS.
D6	REMOVE EXISTING LOBBY FLOORING AS NECESSARY FOR REMOVAL AND INSTALLATION OF STRUCTURAL ELEMENTS. REINSTALL TILE AFTER REQUIRED STRUCTURAL WORK IS COMPLETED. EXISTING FLOORING IN LOBBY 100 TO REMAIN IN ALL OTHER AREAS. PROTECT AS NECESSARY.
D7	REMOVE EXISTING CARPET FLOORING AND ADHESIVE. SCRAPE AND CLEAN SUBSTRATE AS REQUIRED FOR INSTALLATION OF NEW FLOORING.
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D9	REMOVE EXISTING ACOUSTICAL PANEL CEILING AND GRID. HARD LID SOFFITS TO REMAIN. REPAIR ALL SOFFITS AS NECESSARY.

DEMOLITION NOTES:

- SHADED AREA INDICATES LOCATION OF NUMEROUS FLOOR PENETRATIONS AND OTHER INTERVENTIONS IN SLAB ON GRADE AND SLAB ON DECK FOR MECHANICAL, PLUMBING AND ELECTRICAL DEMOLITION AND NEW CONSTRUCTION. MINIMIZE DEMOLITION AS MUCH AS POSSIBLE TO COMPLETE WORK AND SEE EACH PENETRATION FOR THE PENETRATING ELEMENT. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
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- CONTRACTOR TO ASSESS ALL DAMAGE TO FINISHES TO REMAIN PRIOR TO BIDDING. AS A PART OF THIS CONTRACT ALL DAMAGE TO THESE FINISHES WILL BE REPAIRED. INCLUDE ALL COSTS IN BID.
- WHERE DEMOLISHED ELEMENTS MEET ELEMENTS TO REMAIN PROTECT ALL ELEMENTS/FINISHES AS NECESSARY TO MAINTAIN THEIR CURRENT CONDITION.
- IN ALL WALLS SHOWN TO REMAIN REMOVE DEVICES AND ASSOCIATED WIRING AS REQUIRED AND PATCH AND REPAIR WALLS. AFTER DEMOLITION IS COMPLETE REPAIR ALL DAMAGED AREAS ON WALL TO REMAIN AND RETURN ALL EXPOSED WALL SURFACES TO A LEVEL 4 FINISH OR BETTER.
- AFTER DEMOLITION IS COMPLETE PATCH AND REPAIR ALL HOLES IN SLAB ON GRADE AND SLAB ON DECK.
- STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.

DEMOLITION LEGEND

- DEMOLISHED WALL
 - EXISTING WALL TO REMAIN
 - DEMOLISHED POWER OUTLET
 - EXISTING POWER OUTLET TO REMAIN
 - DEMOLISHED CONTROL SWITCH
 - EXISTING CONTROL SWITCH TO REMAIN
 - DEMOLISHED COMMUNICATION OUTLET
 - EXISTING COMMUNICATION OUTLET TO REMAIN
 - DEMOLISHED FIRE ALARM PULL STATION
 - EXISTING STRUCTURAL BRACE TO BE REMOVED AND REPLACED. SEE STRUCTURAL DRAWINGS FOR ALL DEMOLITION REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 017419 CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL FOR MORE INFORMATION ON WASTE MANAGEMENT.
 - REFER TO SPECIFICATION SECTION 024119 SELECTIVE DEMOLITION FOR MORE INFORMATION ON DEMOLITION ACTIVITIES AND EXPECTED RESULTS.



1 DEMOLITION PLAN - LEVEL 2
AD102/ 1/8" = 1'-0"



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LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

DEMO FLOOR PLAN - LEVEL 2

REVISIONS:

DEMOLITION KEY NOTES	
Plan Note	COMMENTS
D1	REMOVE EXISTING WALL AND ALL MECHANICAL AND ELECTRICAL FIXTURES/DEVICES AND DOOR, FRAME AND HARDWARE IN WALL TO BE REMOVED. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION.
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- SHADED AREA INDICATES LOCATION OF NUMEROUS FLOOR PENETRATIONS AND OTHER INTERVENTIONS IN SLAB-ON-GRADE AND SLAB-ON-DECK FOR MECHANICAL PLUMBING AND ELECTRICAL DEMOLITION AND NEW CONSTRUCTION. MINIMIZE DEMOLITION AS MUCH AS POSSIBLE TO COMPLETE WORK AND SIZE EACH PENETRATION FOR THE PENETRATING ELEMENT. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.
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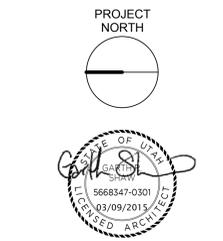
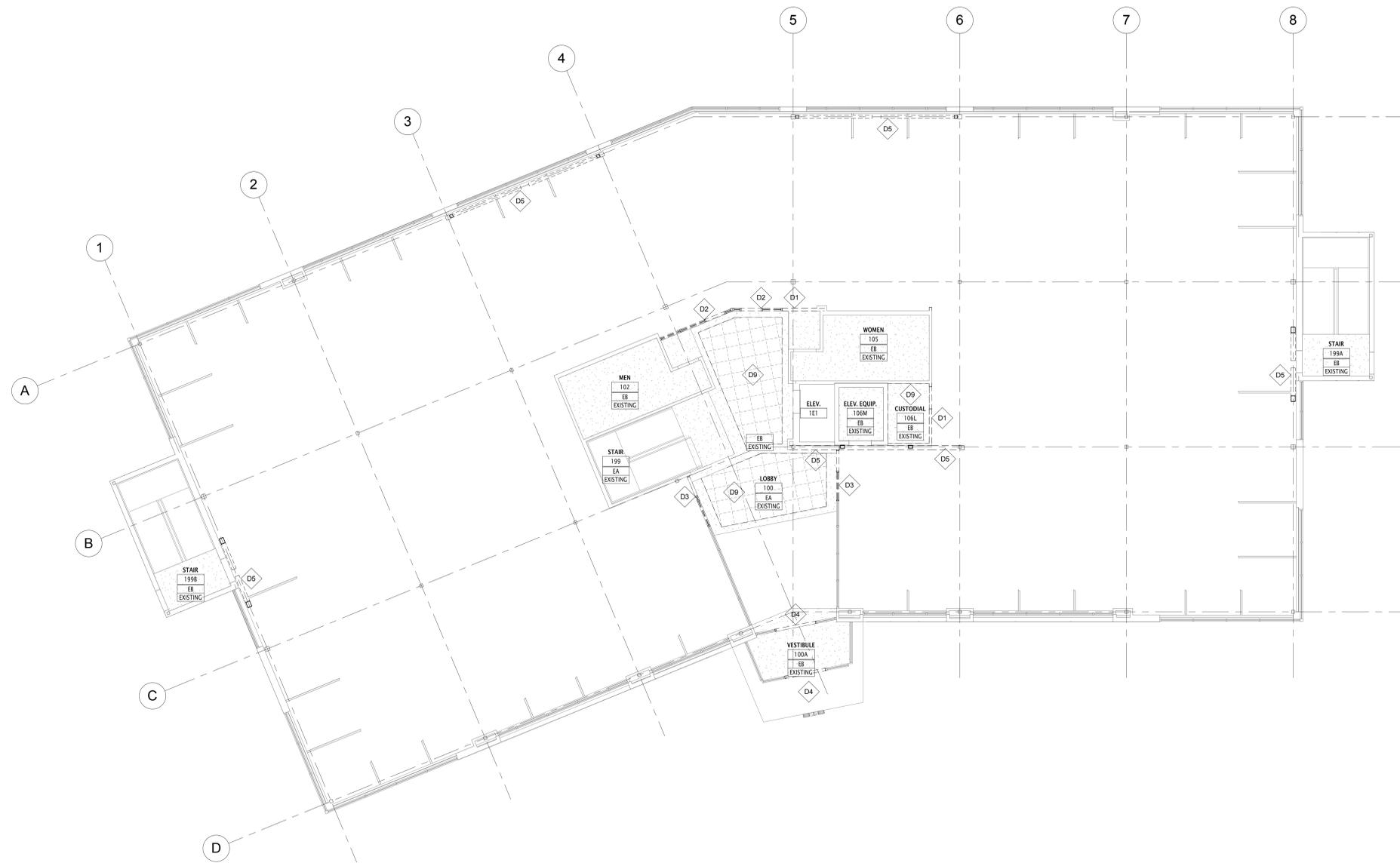
DEMOLITION LEGEND

- DEMOLISHED WALL
 - EXISTING WALL TO REMAIN
 - ⊖ DEMOLISHED POWER OUTLET
 - ⊕ EXISTING POWER OUTLET TO REMAIN
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 - ⊕ EXISTING CONTROL SWITCH TO REMAIN
 - ⊖ DEMOLISHED COMMUNICATION OUTLET
 - ⊕ EXISTING COMMUNICATION OUTLET TO REMAIN
 - ⊖ DEMOLISHED FIRE ALARM PULL STATION
 - ⊕ EXISTING STRUCTURAL BRACE TO BE REMOVED AND REPLACED. SEE STRUCTURAL DRAWINGS FOR ALL DEMOLITION REQUIREMENTS.
- REFER TO SPECIFICATION SECTION 017419 CONSTRUCTION, WASTE MANAGEMENT AND DISPOSAL FOR MORE INFORMATION ON WASTE MANAGEMENT.
 - REFER TO SPECIFICATION SECTION 024119 SELECTIVE DEMOLITION FOR MORE INFORMATION ON DEMOLITION ACTIVITIES AND EXPECTED RESULTS.

RCP LEGEND

TYPE	DESCRIPTION
TYPE EA	EXISTING 2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE EB	EXISTING 5/8" GYPSUM BOARD (PAINTED) ON METAL STUD
TYPE A	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	5/8" GYPSUM BOARD (PAINTED) ON METAL STUD
TYPE C	5/8" GYPSUM BOARD (PAINTED) ON RESILIENT CLIPS
TYPE D	EXPOSED STRUCTURE

MECHANICAL, PLUMBING AND ELECTRICAL INFORMATION IS NOT SHOWN ON THIS PLAN FOR CLARITY. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.



**WSU DAVIS
CAMPUS D13
REMODEL**

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

DEMO RCP - LEVEL 1

REVISIONS:

DEMOLITION KEY NOTES	
Plan Note	COMMENTS
D1	REMOVE EXISTING WALL AND ALL MECHANICAL AND ELECTRICAL FIXTURES/DEVICES AND DOOR, FRAME AND HARDWARE IN WALL TO BE REMOVED. REFER TO MECHANICAL, PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION.
D2	REMOVE EXISTING STOREFRONT COMPLETELY.
D3	REMOVE EXISTING STOREFRONT AS SHOWN. LEAVE EXTENT SHOWN TO REMAIN IN PLACE AND PROVIDE FINISHED END CAPS.
D4	REMOVE EXISTING DOOR FROM FRAME. REPAIR FRAME AS NECESSARY IN PREPARATION FOR NEW DOOR INSTALLATION.
D5	REMOVE STRUCTURAL BRACED FRAME. REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION. DEMOLISH EXISTING WALLS COVERING BRACE FRAMES AS NECESSARY TO COMPLETE WORK. MAINTAIN EXISTING AREAS TO REMAIN AS SHOWN AND ALERT ARCHITECT TO ANY CONFLICTS.
D6	REMOVE EXISTING LOBBY FLOORING AS NECESSARY FOR REMOVAL AND INSTALLATION OF STRUCTURAL ELEMENTS. REINSTALL TILE AFTER REQUIRED STRUCTURAL WORK IS COMPLETED. EXISTING FLOORING IN LOBBY 100 TO REMAIN IN ALL OTHER AREAS. PROTECT AS NECESSARY.
D7	REMOVE EXISTING CARPET FLOORING AND ADHESIVE. SCRAPE AND CLEAN SUBSTRATE AS REQUIRED FOR INSTALLATION OF NEW FLOORING.
D8	REMOVE EXISTING FIXTURE. REFER TO PLUMBING AND ELECTRICAL FOR ADDITIONAL INFORMATION.
D9	REMOVE EXISTING ACOUSTICAL PANEL CEILING AND GRID. HARD LID SOFFITS TO REMAIN. REPAIR ALL SOFFITS AS NECESSARY.

DEMOLITION NOTES:

SHADED AREA INDICATES LOCATION OF NUMEROUS FLOOR PENETRATIONS AND OTHER INTERVENTIONS IN SLAB-ON-GRADE AND SLAB-ON-DECK FOR MECHANICAL PLUMBING AND ELECTRICAL DEMOLITION AND NEW CONSTRUCTION. MINIMIZE DEMOLITION AS MUCH AS POSSIBLE TO COMPLETE WORK AND SIZE EACH PENETRATION FOR THE PENETRATING ELEMENT. REFER TO STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWING FOR ADDITIONAL INFORMATION.

SHADED AREA INDICATES SLAB DEMO REQUIRED FOR STRUCTURAL WORK. SEE STRUCTURAL FOR ADDITIONAL INFORMATION.

1. CONTRACTOR TO ASSESS ALL DAMAGE TO FINISHES TO REMAIN PRIOR TO BIDDING. AS A PART OF THIS CONTRACT ALL DAMAGE TO THESE FINISHES WILL BE REPAIRED. INCLUDE ALL COSTS IN BID.
2. WHERE DEMOLISHED ELEMENTS MEET ELEMENTS TO REMAIN PROTECT ALL ELEMENTS/FINISHES AS NECESSARY TO MAINTAIN THEIR CURRENT CONDITION.
3. IN ALL WALLS SHOWN TO REMAIN REMOVE DEVICES AND ASSOCIATED WIRING AS REQUIRED AND PATCH AND REPAIR WALLS AFTER DEMOLITION IS COMPLETE REPAIR ALL DAMAGED AREAS ON WALL TO REMAIN AND RETURN ALL EXPOSED WALL SURFACES TO A LEVEL 4 FINISH OR BETTER.
4. AFTER DEMOLITION IS COMPLETE PATCH AND REPAIR ALL HOLES IN SLAB-ON-GRADE AND SLAB ON DECK.
5. STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL INFORMATION IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.

DEMOLITION LEGEND

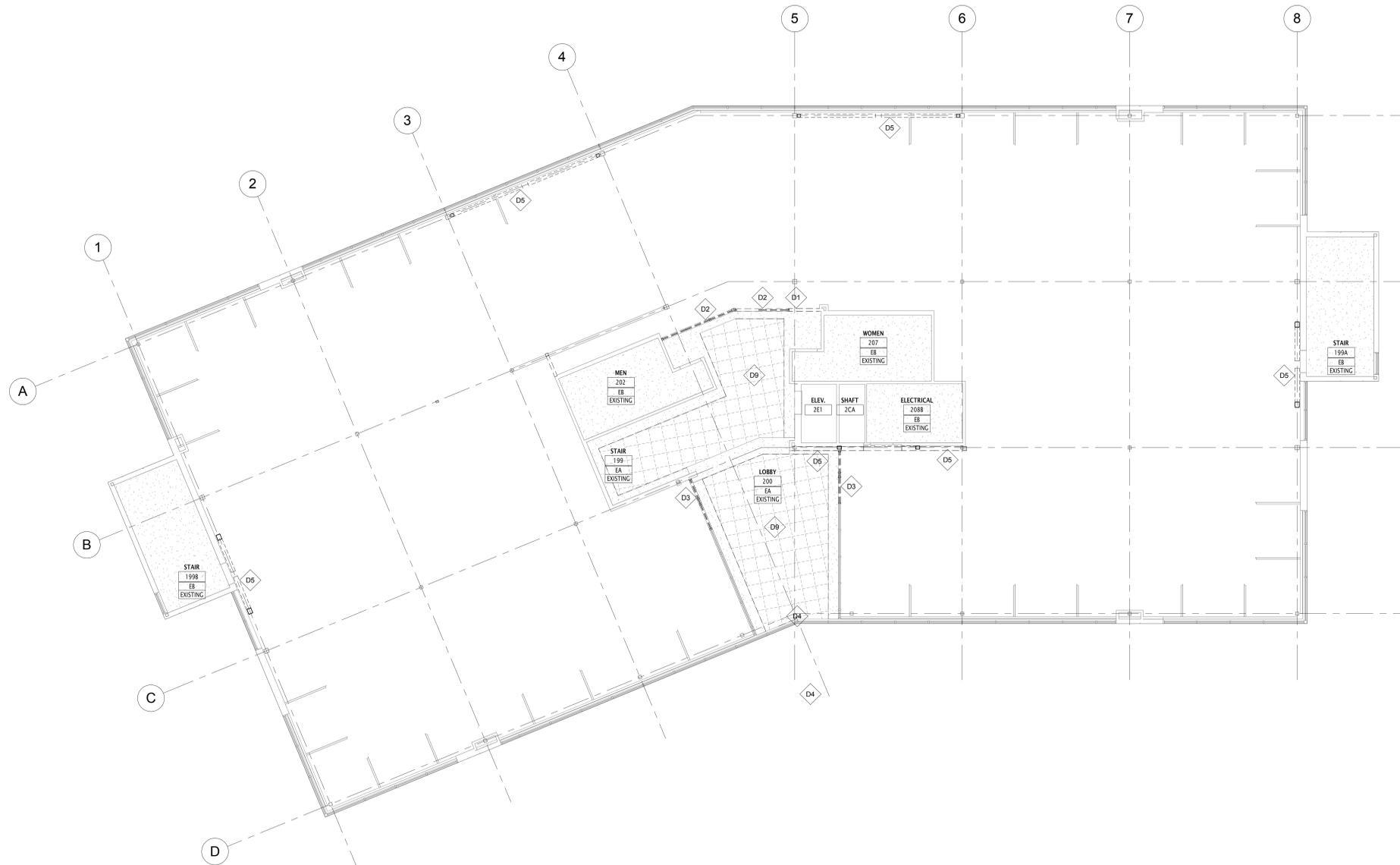
- DEMOLISHED WALL
- EXISTING WALL TO REMAIN
- ⊖ DEMOLISHED POWER OUTLET
- ⊕ EXISTING POWER OUTLET TO REMAIN
- ⊖ DEMOLISHED CONTROL SWITCH
- ⊕ EXISTING CONTROL SWITCH TO REMAIN
- ◀ DEMOLISHED COMMUNICATION OUTLET
- ▶ EXISTING COMMUNICATION OUTLET TO REMAIN
- Ⓜ DEMOLISHED FIRE ALARM PULL STATION
- EXISTING STRUCTURAL BRACE TO BE REMOVED AND REPLACED. SEE STRUCTURAL DRAWINGS FOR ALL DEMOLITION REQUIREMENTS.

1. REFER TO SPECIFICATION SECTION 017419 CONSTRUCTION. WASTE MANAGEMENT AND DISPOSAL FOR MORE INFORMATION ON WASTE MANAGEMENT.
2. REFER TO SPECIFICATION SECTION 024119 SELECTIVE DEMOLITION FOR MORE INFORMATION ON DEMOLITION ACTIVITIES AND EXPECTED RESULTS.

RCP LEGEND

TYPE	DESCRIPTION
TYPE EA	EXISTING 2" x 2" LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE EB	EXISTING 5/8" GYPSUM BOARD (PAINTED) ON METAL STUD
TYPE A	2" x 2" LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
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TYPE C	5/8" GYPSUM BOARD (PAINTED) ON RESILIENT CLIPS
TYPE D	EXPOSED STRUCTURE

MECHANICAL, PLUMBING AND ELECTRICAL INFORMATION IS NOT SHOWN ON THIS PLAN FOR CLARITY. COORDINATE WITH STRUCTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.



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DEMO RCP - LEVEL 2

REVISIONS:

NO.	DATE	DESCRIPTION

DOOR LEGEND

DOOR SCHEDULE AND WINDOW PANEL NOTES
EXPLANATION OF SYMBOLS: (A) THROUGH (S)

A. DOOR MARK: REFERENCE DOOR MARK ON FLOOR PLAN

B. DOOR SIZE: REFER TO DOOR FOR THE MATERIAL OR OVERHEAD DOOR

C. DOOR THICKNESS: REFER TO DOOR PANEL THICKNESS

D. DOOR INSULATION: REFER TO DOOR PANEL THICKNESS

E. DOOR TYPE: SEE DOOR PANEL ELEVATIONS

F. DOOR MATERIAL: REFER TO DOOR PANEL CONSTRUCTION MATERIAL

G. DOOR FINISH: REFER TO DOOR PANEL CONSTRUCTION MATERIAL

H. GLAZING TYPE: GLAZING TYPE IN DOOR PANEL

I. INSULATION: INSULATION TYPE IN DOOR PANEL

J. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

K. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

L. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

M. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

N. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

O. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

P. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

Q. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

R. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

S. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

T. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

U. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

V. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

W. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

X. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

Y. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

Z. WINDOW PANEL: REFER TO WINDOW PANEL CONSTRUCTION MATERIAL

DOOR/FRAME TYPES

FRAME TYPES

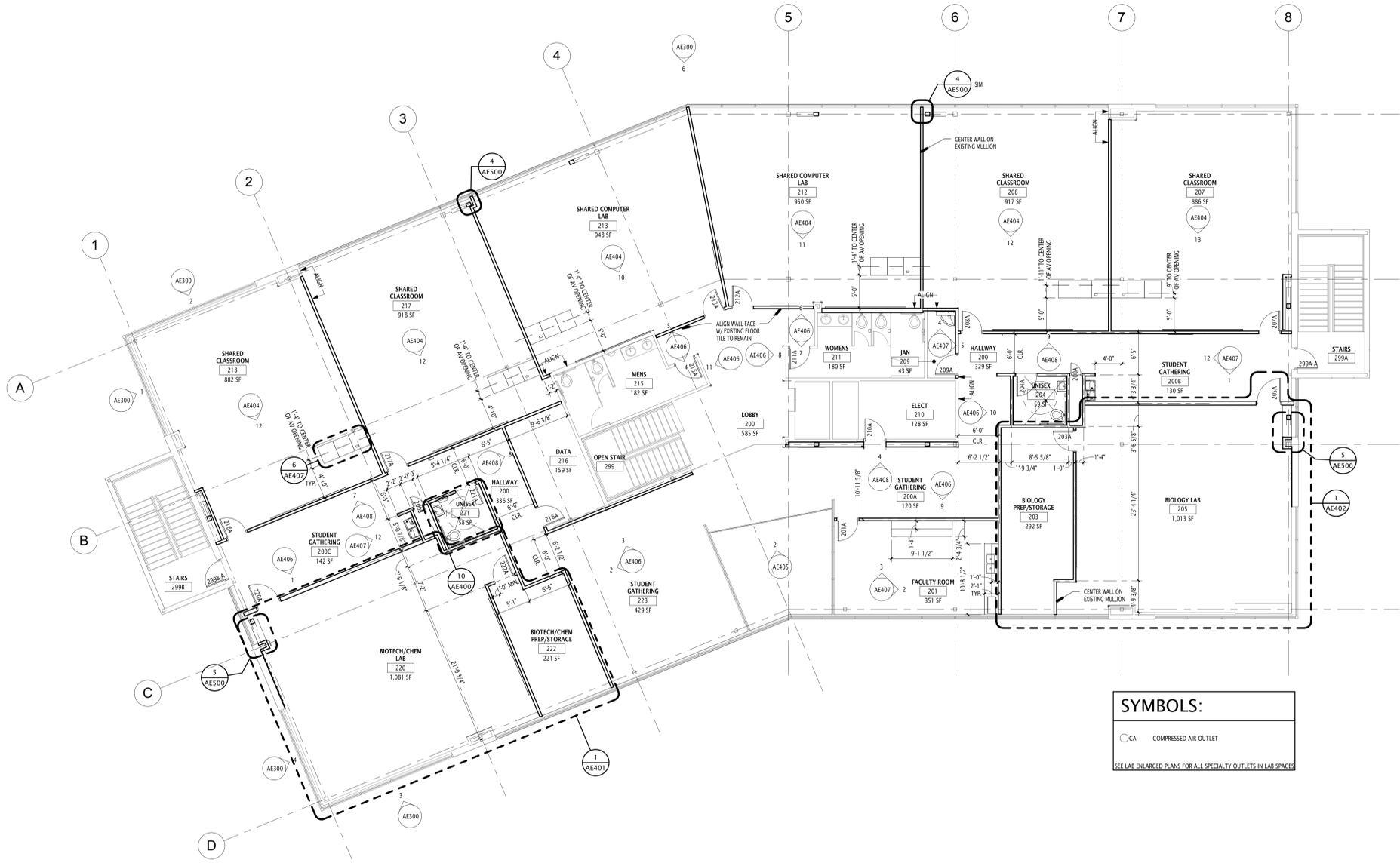
DOOR TYPES

ADA DOOR CLEARANCE

REQUIRED AT ALL DOORS

VERIFY ALL MILLWORK DIMENSIONS WITH INSTALLED CONSTRUCTION PRIOR TO PRODUCTION

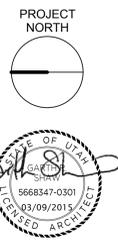
Door Number	DOOR										FRAME					Remarks	Door Number
	Panels	Width	Height	Thickness	Fire Rating	Type	Material	Glazing	Finish	Hardware	Head Height	Type	Material	Rating	Glazing		
200A	SNGL	1'-6"	7'-0"	1 3/4"		D1	WD	-	STN	11	2"	F1	HM	-	-	PNT	200A
200B	SNGL	1'-6"	7'-0"	1 3/4"		D1	WD	-	STN	11	2"	F1	HM	-	-	PNT	200B
201A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	11	2"	F1	HM	-	-	PNT	201A
203A	SNGL	3'-0"	7'-0"	1 3/4"		D2	WD	D	STN	09	2"	F1	HM	-	-	PNT	203A
204A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	13	2"	F1	HM	-	-	PNT	204A
205A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	06	2"	F1	HM	-	-	PNT	205A
207A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	207A
208A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	208A
209A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	12	2"	F1	HM	-	-	PNT	209A
210A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	01	2"	F1	EXISTING	-	-	PNT	210A
211A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	14	2"	F1	EXISTING	-	-	PNT	211A
212A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	212A
213A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	213A
215A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	14	2"	F1	EXISTING	-	-	PNT	215A
216A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	03	2"	F1	HM	-	-	PNT	216A
217A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	217A
218A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	07	2"	F1	HM	-	-	PNT	218A
220A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	06	2"	F1	HM	-	-	PNT	220A
221A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	13	2"	F1	HM	-	-	PNT	221A
222A	SNGL	3'-0"	7'-0"	1 3/4"		D2	WD	D	STN	08	2"	F1	HM	-	-	PNT	222A
299A-A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	02	2"	F1	EXISTING	-	-	PNT	299A-A
299B-A	SNGL	3'-0"	7'-0"	1 3/4"		D1	WD	-	STN	02	2"	F1	EXISTING	-	-	PNT	299B-A



SYMBOLS:

○ CA COMPRESSED AIR OUTLET

SEE LAB ENLARGED PLANS FOR ALL SPECIALTY OUTLETS IN LAB SPACES



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FLOOR PLAN - LEVEL 2

1 FLOOR PLAN - LEVEL 2
AE202 1/8" = 1'-0"

REVISIONS:

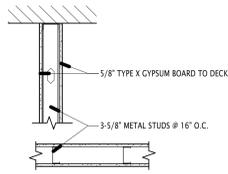
BACKING NOTES:

BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING:
ALL DOOR STOPS
ALL GRAB BARS
ALL TOILET PAPER AND TOWER DISPENSERS
ALL MIRRORS
ALL TELEVISIONS
ALL AV CABINETS
ALL PROJECTORS
ALL WALL HOOKS
WHITERBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING.
REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS.
PLYWOOD BACKING REQUIRED AT DATA ROOM.

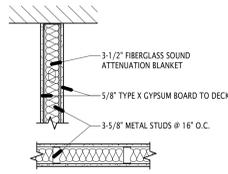
FINISH KEY

WALLS	BASE	FLOOR	MISC.	NOTES
P PAINTED GYP BOARD	R8 4" VINYL BASE	CP CARPET TILE	PL PLASTIC LAMINATE	1. STAINLESS STEEL CORNER GUARDS ON ALL OUTSIDE CORNERS, UP TO 4'-0" A.F.F. SEE FINISH SCHEDULE AE500.
CT CERAMIC TILE	CTB COVED CERAMIC TILE BASE	SC SEALED CONCRETE	SS EPOXY RESIN SOLID SURFACE	
CG STAINLESS STEEL CORNER GUARD	EX EXISTING	MT MOSAIC TILE	RESL.1 RESILIENT STAIR NOSING WITH 6" RISER BASE	
T TACKABLE FABRIC WRAPPED WALL PANEL		LVT LUXURY VINYL TILE		
VWG VINYL WALL GRAPHIC. SEE INTERIOR ELEVATIONS.		EM ENTRY MAT		
EX EXISTING		EX EXISTING		
PLY PLYWOOD UP TO 8"				

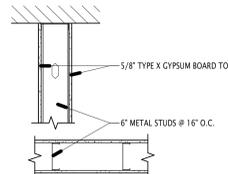
WALL TYPES LEGEND



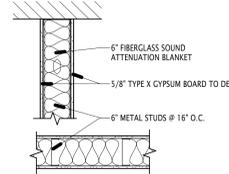
WALL TYPE D1B
STC 35



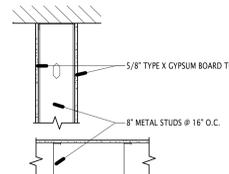
WALL TYPE D1C
STC 45



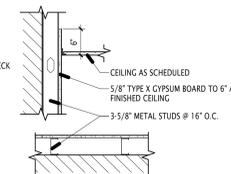
WALL TYPE D2B
STC 35



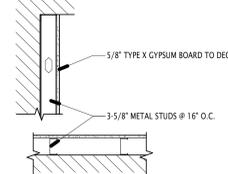
WALL TYPE D2C
STC 45



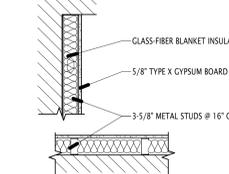
WALL TYPE D3B
STC 35



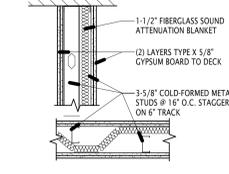
WALL TYPE H4A



WALL TYPE H4B



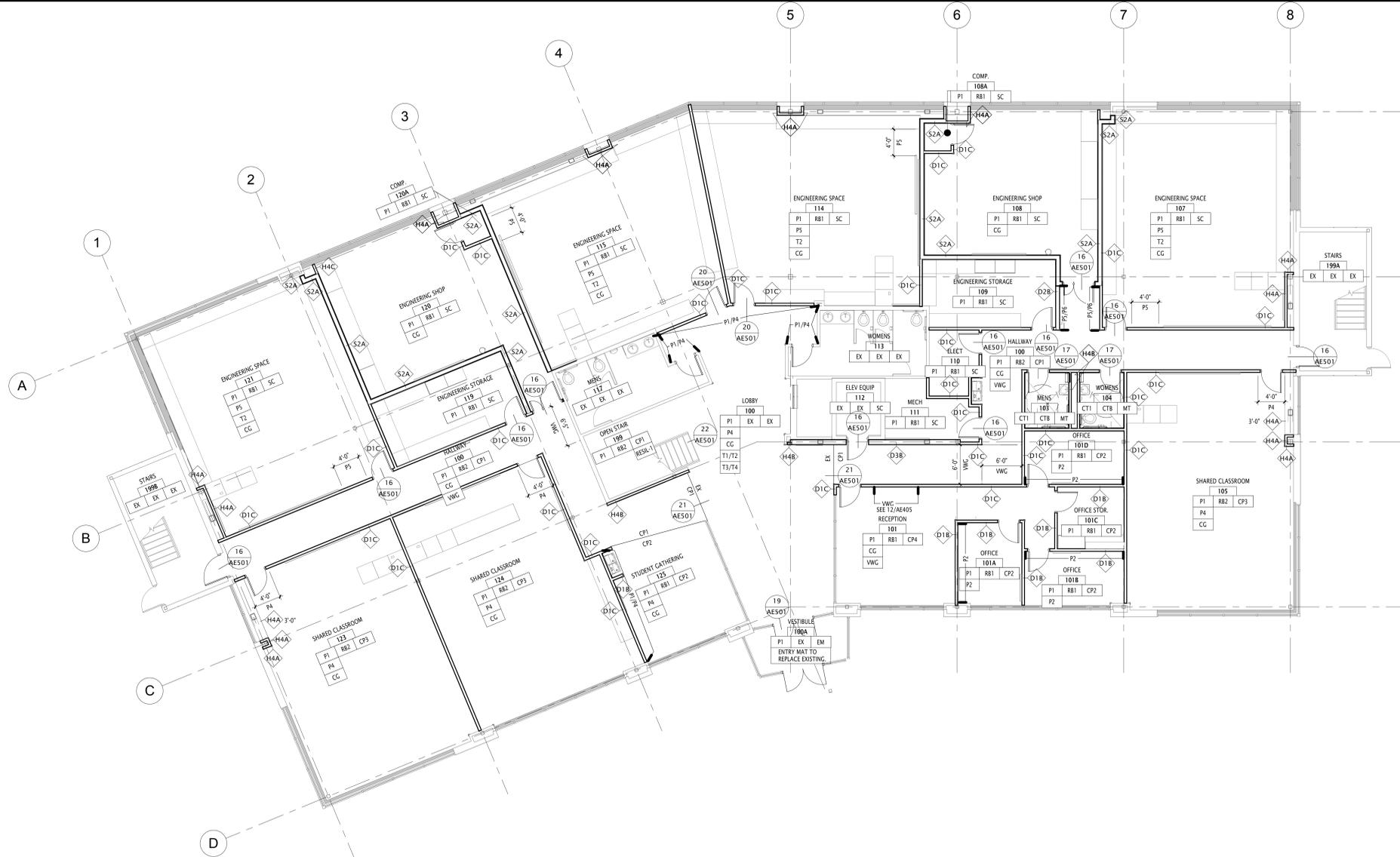
WALL TYPE H4C



WALL TYPE S2A
BULKHEAD
STC 50

3 5/8" STUD (I/360, Spf)	NOTE: ABOVE SIZES ARE MINIMUM REQUIREMENTS BASED ON DIETRICH ULTRASTEL FRAMING. CONTRACTOR SHALL PROVIDE MANUFACTURER'S PUBLISHED LIMITING HEIGHT TABLES TO DEMONSTRATE COMPLIANCE WITH MINIMUM STUD SIZE REQUIREMENTS.
25-Gauge 14'-0" High (Max.)	
20 DW-Gauge 14'-6" High (Max.)	
20 STR-Gauge 16'-6" High (Max.)	
6" STUD (I/360, Spf)	
25-Gauge 20'-0" High (Max.)	
20 DW-Gauge 20'-6" High (Max.)	
20 STR-Gauge 23'-0" High (Max.)	

- NOTES:**
- ALL WALL DIMENSIONS SHOWN ON DRAWINGS ARE TO CENTER OF STUD FOR NEW CONSTRUCTION UNLESS NOTED OTHERWISE.
 - WALL TYPE TO CONTINUE AT DOOR & WINDOW OPENINGS (TOP & BOTTOM) U.N.O.
 - WHERE METAL STUD FURRING OCCURS ADJACENT TO A CMU WALL, A COMPLETE SEPARATION BETWEEN WALLS IS REQUIRED. DO NOT ATTACH STUD WALL, FINISH SIDE ELECTRICAL BOXES, CONDUIT, ETC. TO WALL.
 - WHERE FREESTANDING METAL STUD FURRING OCCURS, PROVIDE HORIZONTAL METAL STRAPPING @ 4'-0" O.C. (VERTICALLY).
 - THE INTENT OF ACOUSTICAL PARTITIONS IS TO ACHIEVE AS HIGH AN STC RATING AS POSSIBLE. RUN GYPSUM BOARD AS TIGHT AS POSSIBLE AT FLOORS, CEILINGS & PENETRATIONS.
 - FOR ANY WALL MISSING A WALL TYPE DESIGNATION, PROVIDE WALL TYPE D1C.
 - PROVIDE BLOCKING IN WALLS & CEILINGS AS REQUIRED FOR INSTALLATION OF MECH., PLUMB. & ELEC. EQUIP. AND SPECIALTIES.
 - STENCIL FIRE RATED WALLS 6" ABOVE ACCESSIBLE CEILINGS, OR AT TOP OF WALL WHERE NO CEILING IS SCHEDULED. THE FOLLOWING FIRE AND/OR SMOKE BARRIERS - PROTECT ALL OPENINGS. REPEAT STENCILING EVERY 30' FOR THE ENTIRE LENGTH OF THE WALL IN 1/2" MIN. HEIGHT LETTERING.



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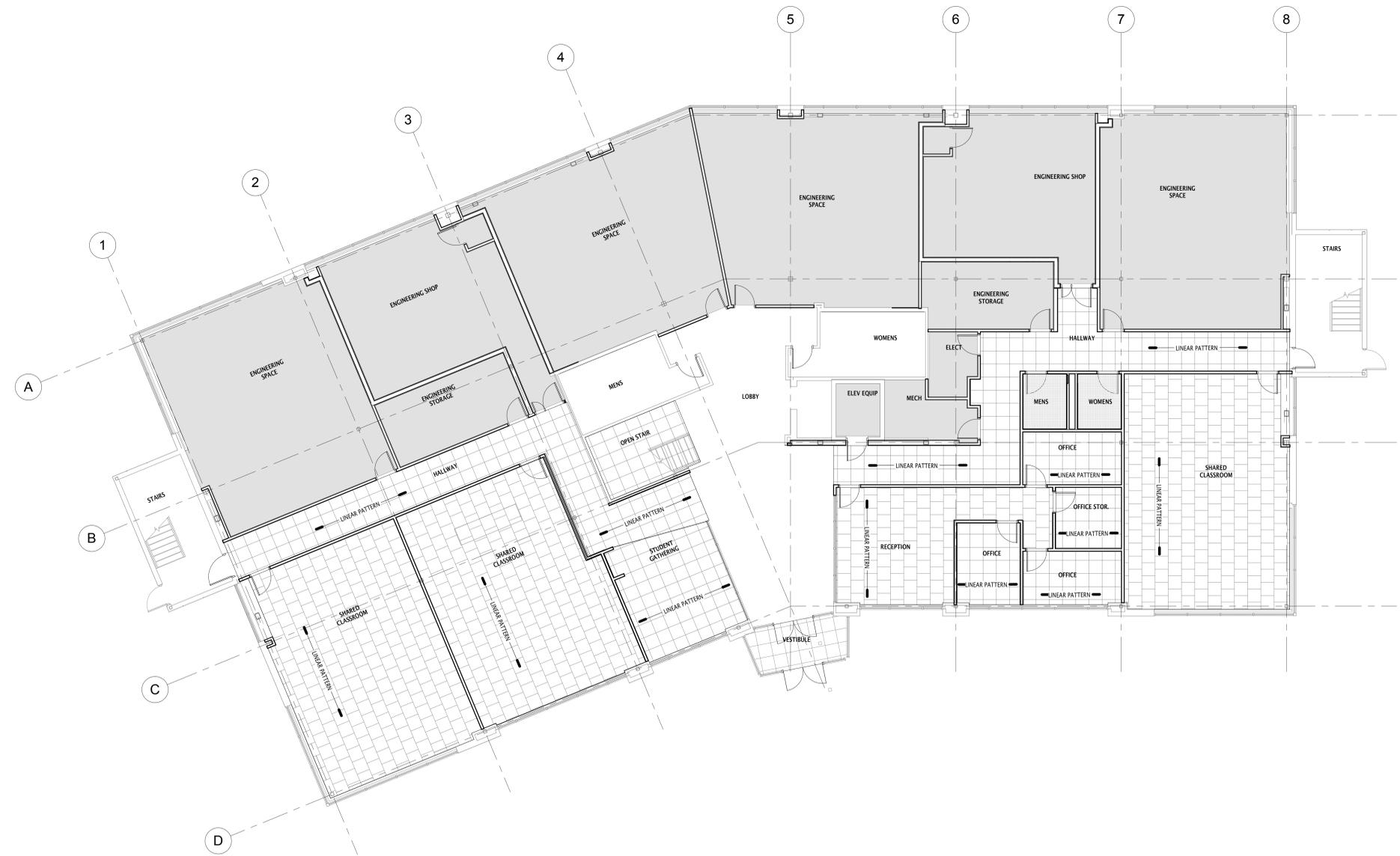
OWNER PROJECT NO.: 14297810
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ISSUED DATE: 03/09/2015

WTFI - LEVEL 1

REVISIONS:

FLOOR FINISH PATTERN LEGEND:

-  CP1 / CP2 / EM
CARPET TILE
MONOLITHIC INSTALLATION
-  CP1 / CP2
CARPET TILE
MONOLITHIC INSTALLATION AT 22.5 DEGREE ROTATION
-  CP3 / CP4
CARPET TILE
VERTICAL ASHLAR INSTALLATION
-  CP3 / CP4
CARPET TILE
VERTICAL ASHLAR INSTALLATION AT 22.5 DEGREE ROTATION
-  SC
SEALED CONCRETE
-  MT
MOSAIC TILE
-  MT
MOSAIC TILE
INSTALLED AT 22.5 DEGREE ROTATION
-  LVT
LUXURY VINYL TILE
PLANKS INSTALLED IN HERRINGBONE PATTERN
-  EXISTING



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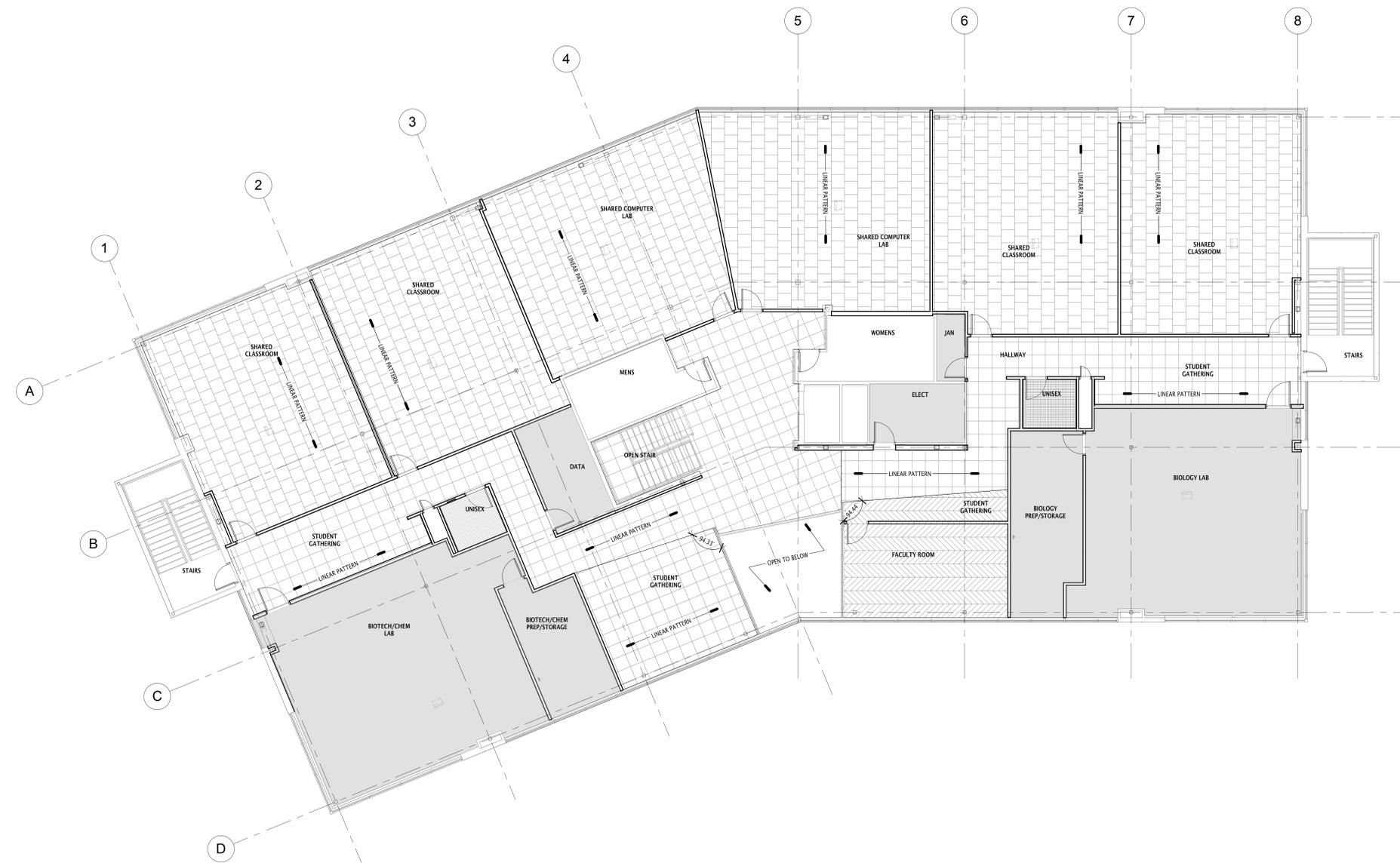
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FLOOR FINISH - LEVEL 1

REVISIONS:

FLOOR FINISH PATTERN LEGEND:

-  CP1 / CP2 / EM
CARPET TILE
MONOLITHIC INSTALLATION
-  CP1 / CP2
CARPET TILE
MONOLITHIC INSTALLATION AT 22.5 DEGREE ROTATION.
-  CP3 / CP4
CARPET TILE
VERTICAL ASHLAR INSTALLATION
-  CP3 / CP4
CARPET TILE
VERTICAL ASHLAR INSTALLATION AT 22.5 DEGREE ROTATION.
-  SC
SEALED CONCRETE
-  MT
MOSAIC TILE
-  MT
MOSAIC TILE
INSTALLED AT 22.5 DEGREE ROTATION
-  LVT
LUXURY VINYL TILE
PLANKS INSTALLED IN HERRINGBONE PATTERN
-  EXISTING



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FLOOR FINISH - LEVEL 2

1 FLOOR FINISH PLAN - LEVEL 2
AE206 1/8" = 1'-0"

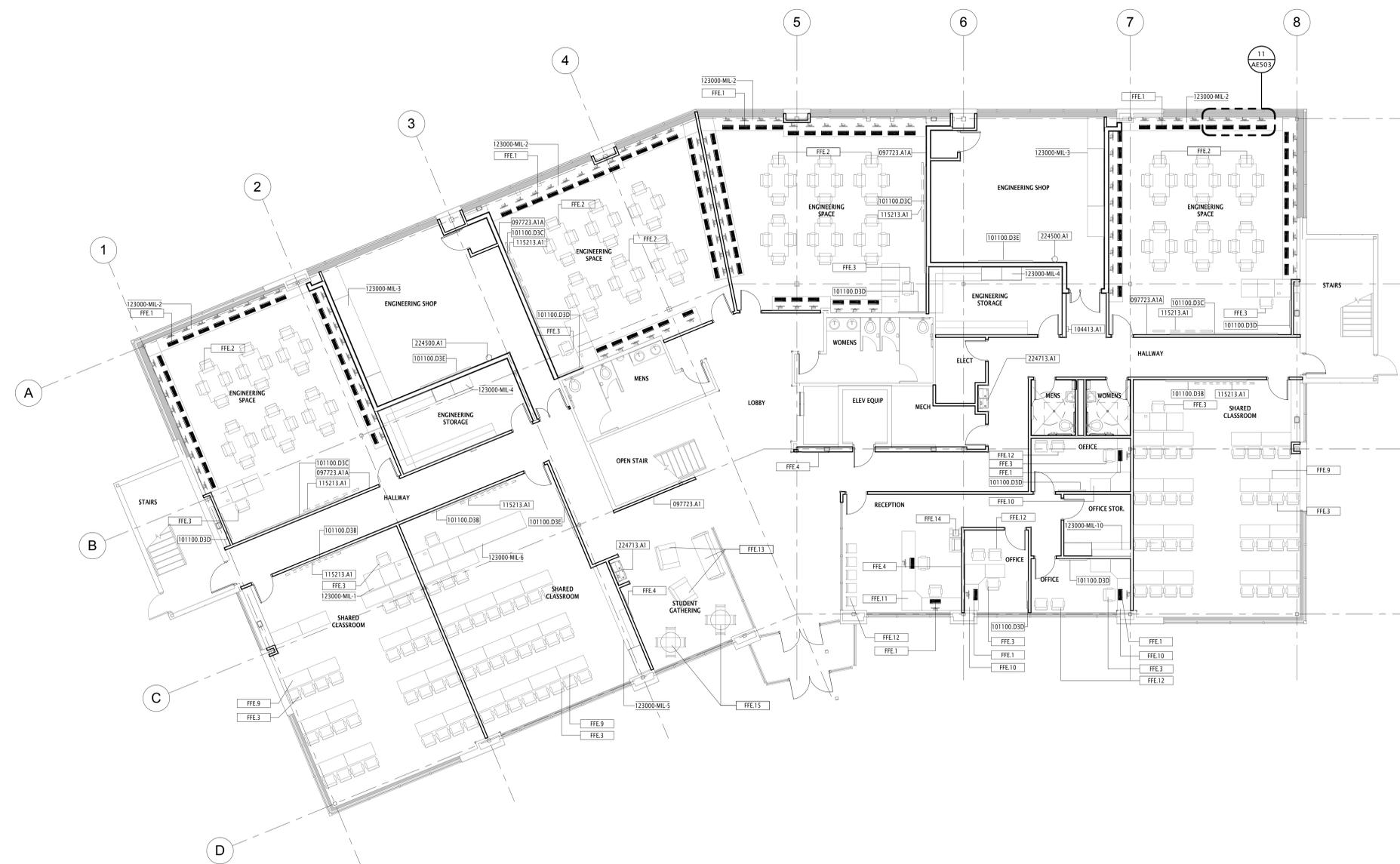
BACKING NOTES:

BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING:
ALL DOOR STOPS
ALL GRAB BARS
ALL TOILET PAPER AND TOWER DISPENSERS
ALL MIRRORS
ALL TELEVISIONS
ALL AV CABINETS
ALL PROJECTORS
ALL WALL HOOKS
WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING.
REFER TO 002316 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS.
PLYWOOD BACKING REQUIRED AT DATA ROOM.
SEE REFLECTED CEILING PLANS FOR ADDITIONAL EQUIPMENT

EQUIPMENT LEGEND

097723.A1	FABRIC WRAPPED PANEL, TACKABLE, MULTIPLE VARYING SIZES. SEE 8/AE405.
097723.A1A	FABRIC WRAPPED PANEL TACKBOARD (T2). FELT FACED. 4' X 4' PROVIDED AND INSTALLED BY CONTRACTOR.
101100.D3B	WHITEBOARD, 12' X 4'. PROVIDED AND INSTALLED BY CONTRACTOR.
101100.D3C	WHITEBOARD, 16' X 4'. PROVIDED AND INSTALLED BY CONTRACTOR.
101100.D3D	WHITEBOARD, 4' X 4'. PROVIDED AND INSTALLED BY CONTRACTOR.
101100.D3E	WHITEBOARD, 8' X 4'. PROVIDED AND INSTALLED BY CONTRACTOR.
104413.A1	FIRE-PROTECTION CABINET
115213.A1	MANUALLY OPERATED FRONT-PROJECTION SCREEN
123000-MIL-1	TEACHING STATION. THE CENTER OF AV OULET IS DIMENSIONED ACCORDINGLY. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-2	WALL MOUNTED COUNTER. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-3	ENGINEERING SHOP CABINETS. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-4	ENGINEERING STORAGE CABINETS. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-5	SHARED CLASSROOM CABINETS. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-6	EXTENDED TEACHING STATION. PROVIDED AND INSTALLED BY CONTRACTOR.
123000-MIL-10	OFFICE STORAGE CABINETS. PROVIDED AND INSTALLED BY CONTRACTOR.
224500.A1	EMERGENCY EYEWASH
224713.A1	WALL-MOUNTED DRINKING FOUNTAIN
FFE.1	COMPUTER STATION. PROVIDED AND INSTALLED BY OWNER.
FFE.2	MOVABLE TABLES. PROVIDED AND INSTALLED BY OWNER.
FFE.3	TASK SEATING. PROVIDED AND INSTALLED BY OWNER.
FFE.4	FLAT SCREEN TELEVISION. PROVIDED BY OWNERS. INSTALLED BY CONTRACTOR.
FFE.9	MOVABLE CLASSROOM TABLES. PROVIDED AND INSTALLED BY OWNER.
FFE.10	PRIVATE OFFICE DESKING. PROVIDED AND INSTALLED BY OWNER.
FFE.11	RECEPTION DESK. PROVIDED AND INSTALLED BY OWNER.
FFE.12	GUEST SEATING. PROVIDED AND INSTALLED BY OWNER.
FFE.13	LOUNGE SEATING. PROVIDED AND INSTALLED BY OWNER.
FFE.14	COPY / PRINTER. PROVIDED AND INSTALLED BY OWNER.
FFE.15	TABLE AND CHAIRS. PROVIDED AND INSTALLED BY OWNER.

REVISIONS:



PROJECT NORTH



**WSU DAVIS
CAMPUS D13
REMODEL**

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

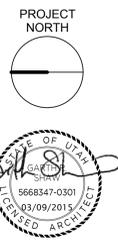
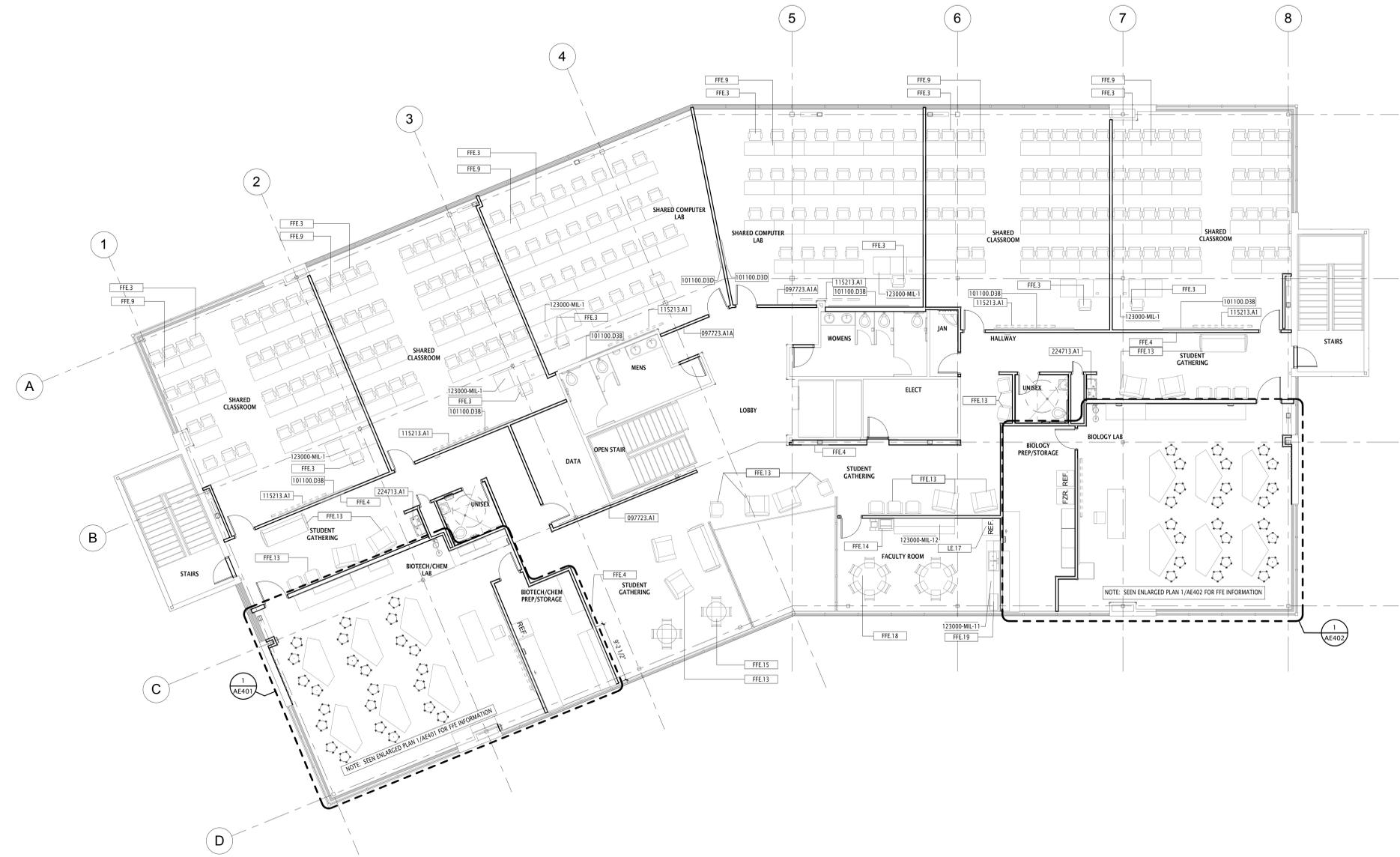
4100 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

FFE - LEVEL 1

REVISIONS:

BACKING NOTES:	EQUIPMENT LEGEND
BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING: ALL DOOR STOPS ALL CRAB BARS ALL TOILET PAPER AND TOWER DISPENSERS ALL MIRRORS ALL TELEVISIONS ALL AV CABINETS ALL PROJECTORS ALL WALL PICTURES WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING. REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS. PLYWOOD BACKING REQUIRED AT DATA ROOM.	097723.A1 FABRIC WRAPPED PANEL, TACKABLE, MULTIPLE VARYING SIZES. SEE 8/AE405. 097723.A1A FABRIC WRAPPED PANEL TACKBOARD (T2), FELT FACED, 4' X 4' PROVIDED AND INSTALLED BY CONTRACTOR. 101100.D3B WHITEBOARD, 12' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 101100.D3D WHITEBOARD, 4' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 115213.A1 MANUALLY OPERATED FRONT PROJECTION SCREEN 123000-MIL-1 TEACHING STATION, THE CENTER OF AV OULET IS DIMENSIONED ACCORDINGLY. PROVIDED AND INSTALLED BY CONTRACTOR. 123000-MIL-11 FACULTY LOUNGE BASE AND UPPER CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR. 123000-MIL-12 FACULTY LOUNGE MAIL SLOTS AND BASE CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR. 224713.A1 WALL-MOUNTED DRINKING FOUNTAIN FFE.3 TASK SEATING, PROVIDED AND INSTALLED BY OWNER. FFE.4 FLAT SCREEN TELEVISION, PROVIDED BY OWNERS, INSTALLED BY CONTRACTOR. FFE.9 MOVABLE CLASSROOM TABLES, PROVIDED AND INSTALLED BY OWNER. FFE.13 LOUNGE SEATING, PROVIDED AND INSTALLED BY OWNER. FFE.14 COPY / PRINTER, PROVIDED AND INSTALLED BY OWNER. FFE.15 TABLE AND CHAIRS, PROVIDED AND INSTALLED BY OWNER. FFE.18 FACULTY ROOM TABLES AND CHAIRS, PROVIDED AND INSTALLED BY OWNER. FFE.19 MICROWAVE, PROVIDED AND INSTALLED BY OWNER. LE.17 REFRIGERATOR / FREEZER, OWNER PROVIDED.



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4110 STATE OFFICE
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LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

FFE - LEVEL 2

1 FFE - LEVEL 2
AE208 / 1/8" = 1'-0"

REVISIONS:

RCP	ROOM #	A
LEGEND	ELEVATION	9'-0"

TYPE EA	EXISTING 2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE EB	EXISTING 5/8" CYPRESUM BOARD (PAINTED) ON METAL STUD
TYPE A	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	5/8" CYPRESUM BOARD (PAINTED) ON METAL STUD
TYPE C	5/8" CYPRESUM BOARD (PAINTED) ON RESILIENT CLIPS
TYPE D	EXPOSED STRUCTURE

SYMBOL LEGEND

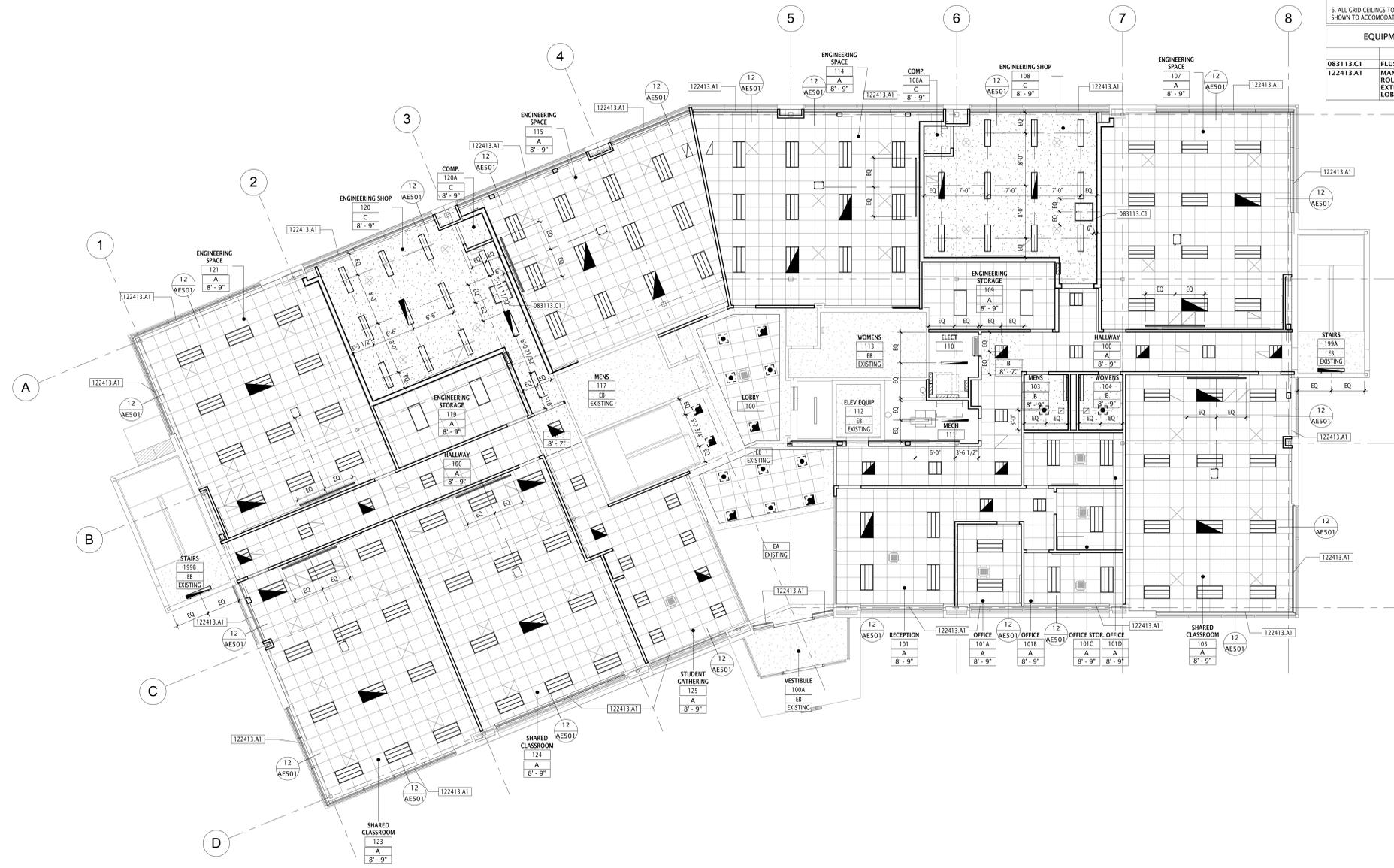
	LAY-IN FIXTURE
	SUSPENDED OR SURFACE MOUNTED LINEAR LIGHT
	RECESSED LIGHT FIXTURE
	MECHANICAL DIFFUSER - SUPPLY
	MECHANICAL DIFFUSER - RETURN
	PROJECTOR, CEILING MOUNTED LOCATED 12'-0" TO 14'-0" FROM SCREEN, TYP.
	PROJECTOR SCREEN
	VRF CASSETTE UNIT

GENERAL NOTES

- MECHANICAL AND ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.
- ANY SPACE WITHOUT A CEILING TAG IS TO RECEIVE CEILING TYPE 'A'.
- UNLESS NOTED OTHERWISE, PROVIDE FRAMED GYP RD. HEADERS/ BULKHEAD AT EDGES WHERE ADJACENT CEILINGS HAVE DIFFERENT ELEVATIONS.
- MANUAL JAMB ROLLER SHADES AT ALL EXTERIOR WINDOWS.
- ALL DIMENSIONS OF RCP PLANS ARE TO FACE OF WALL AND CENTERLINE OF FIXTURES, U.N.O.
- ALL GRID CEILINGS TO BE CENTERED IN ROOMS AS SHOWN TO ACCOMMODATE LIGHTING LAYOUT.

EQUIPMENT LEGEND

083113.C1	FLUSH ACCESS DOOR
122413.A1	MANUALLY OPERATED ROLLER SHADE AT ALL EXTERIOR WINDOWS EXCEPT LOBBY



PROJECT NORTH



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OWNER PROJECT NO.: 14297810
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RCP - LEVEL 1

REVISIONS:

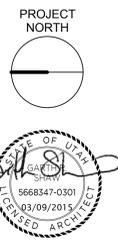
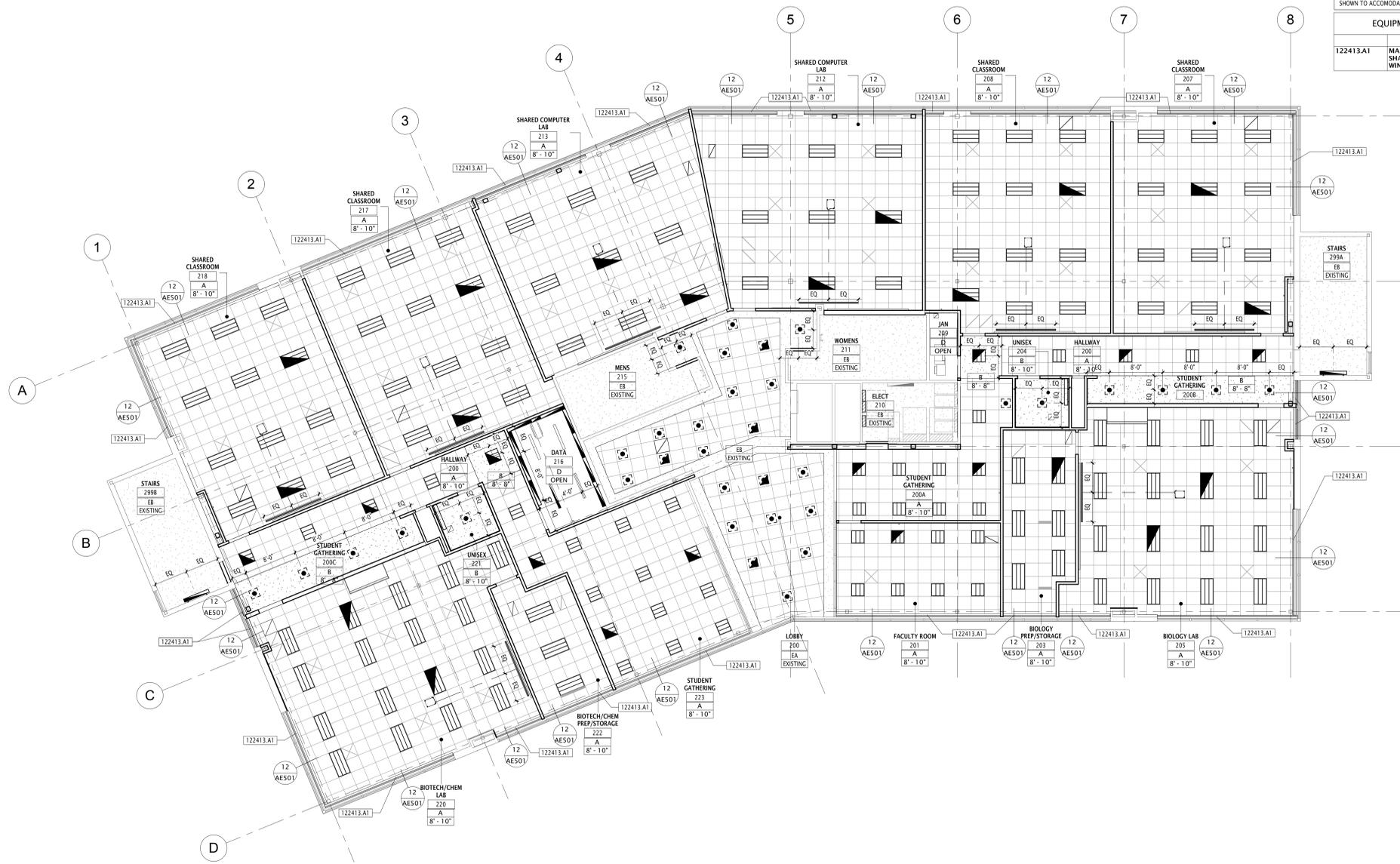
RCP LEGEND	
TYPE EA	EXISTING 2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE EB	EXISTING 5/8" GYPSUM BOARD (PAINTED) ON METAL STUD
TYPE A	2' x 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID
TYPE B	5/8" GYPSUM BOARD (PAINTED) ON METAL STUD
TYPE C	5/8" GYPSUM BOARD (PAINTED) ON RESILIENT CLIPS
TYPE D	EXPOSED STRUCTURE

SYMBOL LEGEND	
	LAY-IN FIXTURE
	SUSPENDED OR SURFACE MOUNTED LINEAR LIGHT
	RECESSED LIGHT FIXTURE
	MECHANICAL DIFFUSER - SUPPLY
	MECHANICAL DIFFUSER - RETURN
	PROJECTOR, CEILING MOUNTED LOCATED 12" TO 14" FROM SCREEN, TYP.
	PROJECTOR SCREEN
	VRF CASSETTE UNIT

GENERAL NOTES

- MECHANICAL AND ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS. ANY CONFLICTS SHOULD BE ADDRESSED WITH ARCHITECT AS SOON AS POSSIBLE.
- ANY SPACE WITHOUT A CEILING TAG IS TO RECEIVE CEILING TYPE 'A'.
- UNLESS NOTED OTHERWISE, PROVIDE FRAMED GYP BD. HEADER/ BULKHEAD AT EDGE WHERE ADJACENT CEILINGS HAVE DIFFERENT ELEVATIONS.
- MANUAL JAMB ROLLER SHADES AT ALL EXTERIOR WINDOWS.
- ALL DIMENSIONS OF RCP PLANS ARE TO FACE OF WALL AND CENTERLINE OF FIXTURES, U.N.O.
- ALL GRID CEILINGS TO BE CENTERED IN ROOMS AS SHOWN TO ACCOMMODATE LIGHTING LAYOUT.

EQUIPMENT LEGEND	
122413.A1	MANUALLY OPERATED ROLLER SHADE AT ALL EXTERIOR WINDOWS EXCEPT LOBBY



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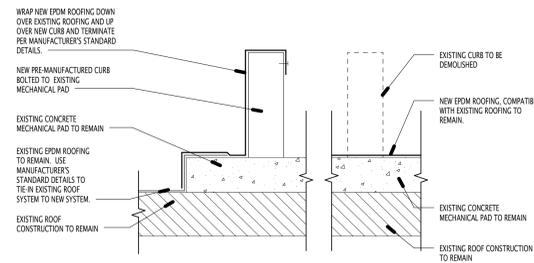
4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

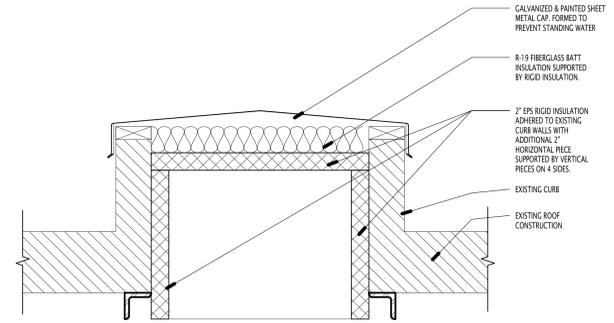
RCP - LEVEL 2

1 REFLECTED CEILING PLAN - LEVEL 2
AE210 1/8" = 1'-0"

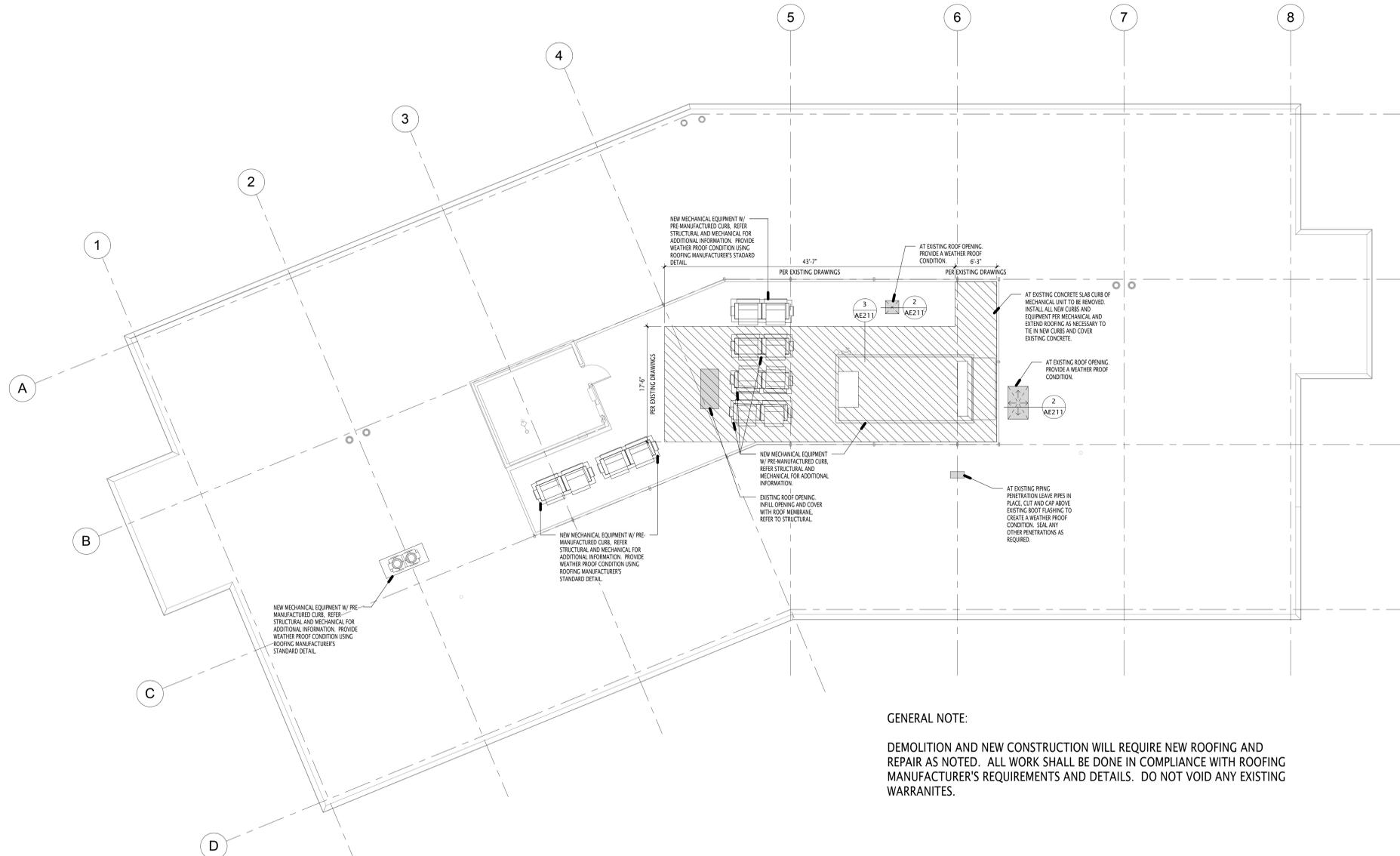
REVISIONS:



3 NEW ROOFING AND CURB DETAIL
AE211 1/2" = 1'-0"



2 ROOF CAP DETAIL
AE211 1/2" = 1'-0"



1 ROOF PLAN
AE211 1/8" = 1'-0"

GENERAL NOTE:
DEMOLITION AND NEW CONSTRUCTION WILL REQUIRE NEW ROOFING AND REPAIR AS NOTED. ALL WORK SHALL BE DONE IN COMPLIANCE WITH ROOFING MANUFACTURER'S REQUIREMENTS AND DETAILS. DO NOT VOID ANY EXISTING WARRANTIES.

PROJECT NORTH



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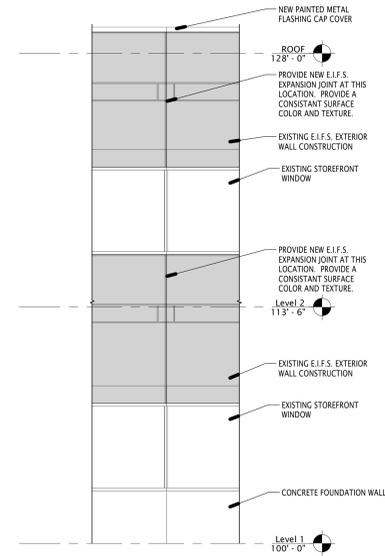
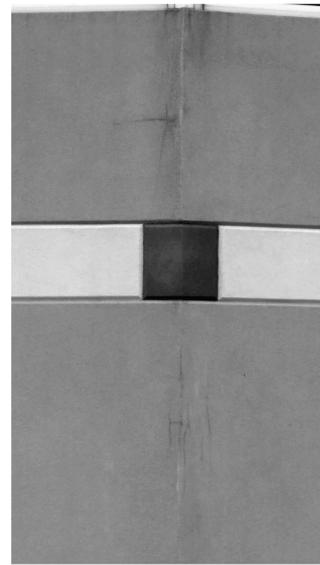
4100 STATE OFFICE
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OWNER PROJECT NO.: 14297810
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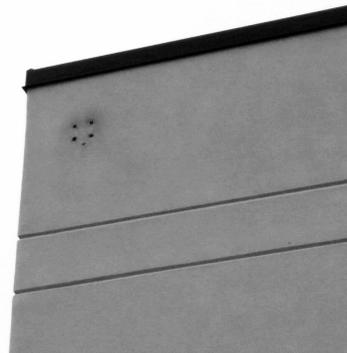
ROOF PLAN

REVISIONS:

NO.	DESCRIPTION



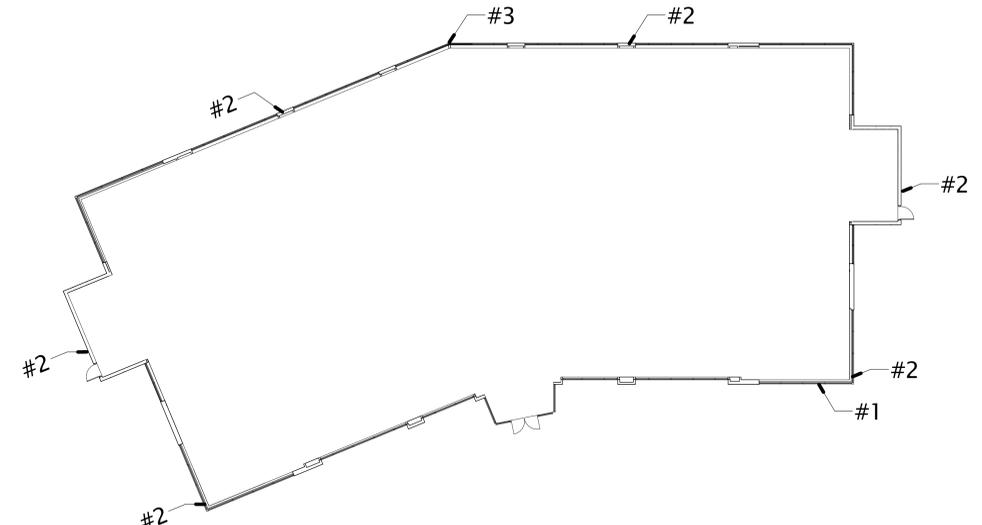
6 E.I.F.S. JOINT REPAIR REQUIREMENTS (#3)
AE300 1/4" = 1'-0"



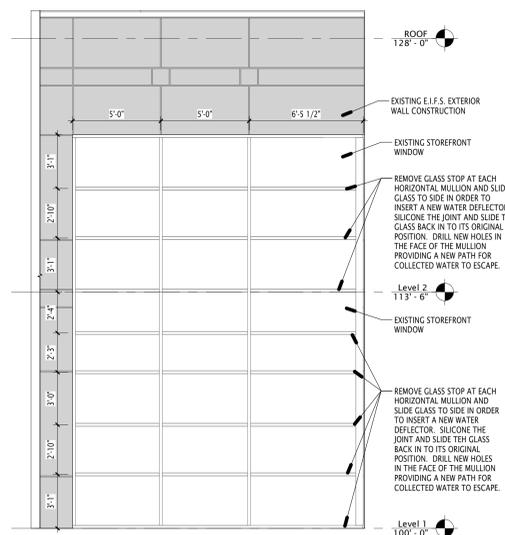
#2 PATCH AND REPAIR E.I.F.S. AS REQUIRED. CLEAN AND PROVIDE CONSISTANT SURFACE COLOR AND TEXTURE.



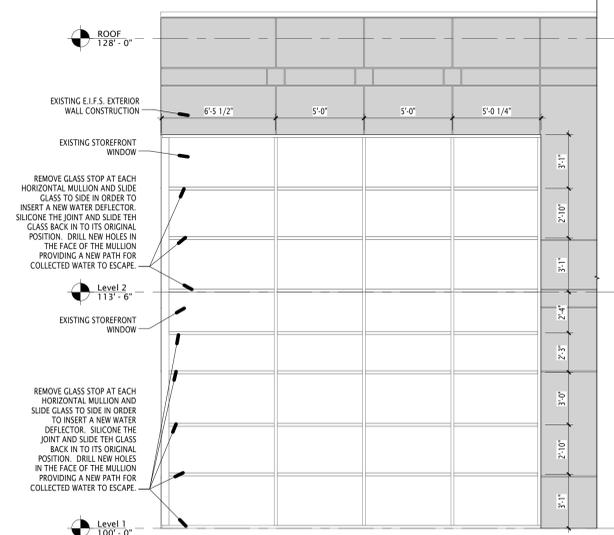
#1 PATCH AND REPAIR E.I.F.S. AS REQUIRED. CLEAN AND PROVIDE CONSISTANT SURFACE COLOR AND TEXTURE.



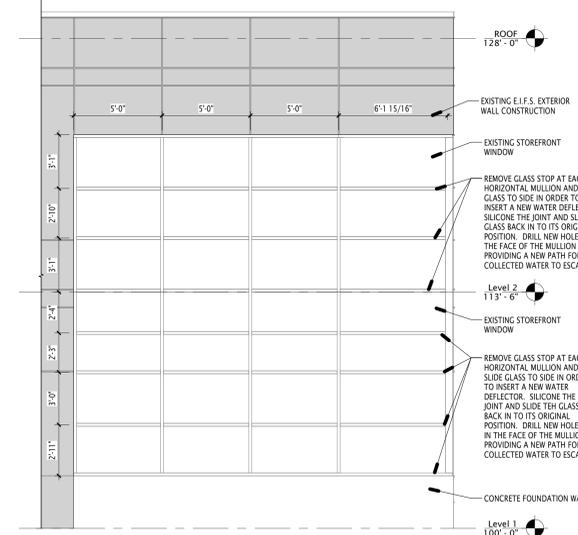
5 KEY PLAN FOR E.I.F.S. REPAIR REQUIREMENTS
AE300 1/16" = 1'-0"



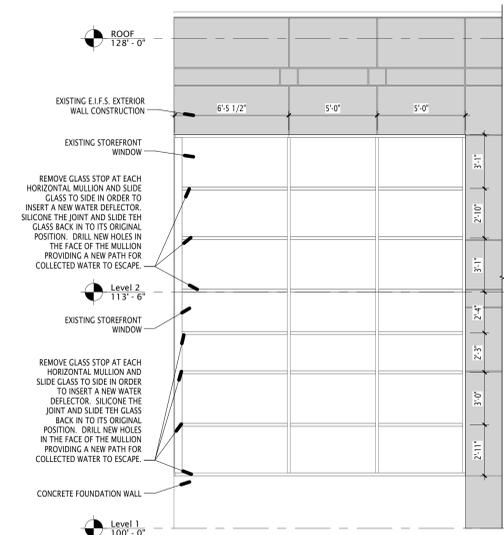
4 EXISTING WINDOW ELEVATION - 4
AE300 1/4" = 1'-0"



3 EXISTING WINDOW ELEVATION - 3
AE300 1/4" = 1'-0"



2 EXISTING WINDOW ELEVATION - 2
AE300 1/4" = 1'-0"



1 EXISTING WINDOW ELEVATION - 1
AE300 1/4" = 1'-0"



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**EXTERIOR WINDOW
ELEVATIONS**

EQUIPMENT LEGEND	
093000.A1	CERAMIC TILE (CT1)
093000.A2	CERAMIC TILE BASE (CTB)

TOILET ROOM ACCESSORIES			
Type Mark	Description	Type Comments	Provided/ Installed By
TA1	STAINLESS STEEL GRAB BARS	STAINLESS STEEL, SATIN FINISH WITH GRIP, SNAP FLANGE, 1-1/2" CLEARANCE BETWEEN WALL SURFACE AND INSIDE FACE OF BAR.	CONTRACTOR / CONTRACTOR
TA2	TOILET TISSUE DISPENSER	SURFACE MOUNTED, MULTI-ROLL	OWNER / CONTRACTOR
TA3	WALL MOUNTED SOAP DISPENSER	LIQUID SOAP DISPENSER, LOCKING.	OWNER / CONTRACTOR
TA4	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	COORDINATE WITH OWNER FOR EXACT LOCATIONS AND POSSIBLE RECESSES	OWNER / CONTRACTOR
TA5	SANITARY NAPKIN DISPOSAL UNIT	SURFACE MOUNTED, STAINLESS STEEL, SELF-CLOSING DOOR AND REMOVEABLE STAINLESS STEEL RECEPTACLE, ALL WELDED CONSTRUCTION. PROVIDE AT EACH WOMEN'S AND UNISEX LAVATORY	CONTRACTOR / CONTRACTOR
TA6	1/4" POLISHED PLATE GLASS MIRROR	FRAMED, SIZE PER ELEVATIONS, ABOVE EACH LAVATORY AS SPECIFIED	CONTRACTOR / CONTRACTOR
TA7	WALL MOUNTED SHELF, 2'-0"	SEE DETAILS FOR MOUNTING HEIGHT	CONTRACTOR / CONTRACTOR
TA8	SEAT PROTECTOR DISPENSER	PROVIDE AT EACH LAVATORY, COORDINATE WITH OWNER FOR EXACT LOCATIONS AND POSSIBLE RECESSES	CONTRACTOR / CONTRACTOR

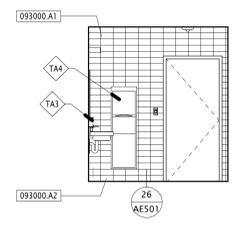
BACKING NOTES:

BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING:
 ALL DOOR STOPS
 ALL GRAB BARS
 ALL TOILET PAPER AND TOWER DISPENSERS
 ALL MIRRORS
 ALL TELEVISIONS
 ALL AV CABINETS
 ALL PROJECTORS
 ALL WALL HOOKS
 WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING.
 REFER TO 082116 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS.
 PLYWOOD BACKING REQUIRED AT DATA ROOM.

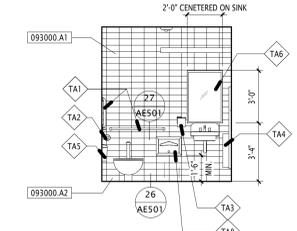
GENERAL NOTES:

- GENERAL CONTRACTOR SHALL PROVIDE SOLID BLOCKING FOR ALL WALL MOUNTED ITEMS, TYPICAL.
- ALL BRACES, BRACKETS, HINGES, SCREWS, ETC. FOR EACH ACCESSORY FASTENERS SHALL BE STAINLESS STEEL.
- PROTRUDING OBJECTS MOUNTED BELOW GRAB BARS SHALL HAVE A MINIMUM DISTANCE OF 1-1/2" CLEAR FROM BOTTOM.
- PROTRUDING OBJECTS MOUNTED ABOVE GRAB BARS SHALL HAVE A MINIMUM DISTANCE OF 12" CLEAR FROM TOP.

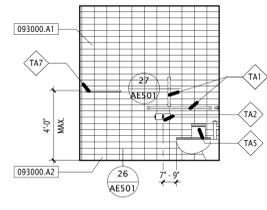
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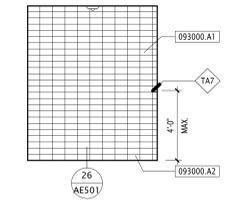
14 UNISEX 221 - EAST
AE400/ 1/4" = 1'-0"



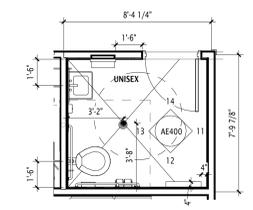
13 UNISEX 221 - NORTH
AE400/ 1/4" = 1'-0"



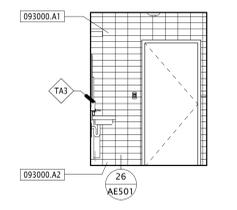
12 UNISEX 221 - WEST
AE400/ 1/4" = 1'-0"



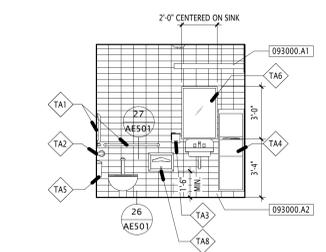
11 UNISEX 221 - SOUTH
AE400/ 1/4" = 1'-0"



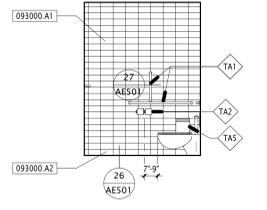
10 ENLARGED UNISEX RESTROOM RM. 221
AE400/ 1/4" = 1'-0"



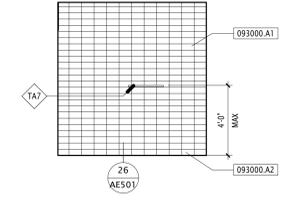
9 WOMEN'S 104 - EAST
AE400/ 1/4" = 1'-0"



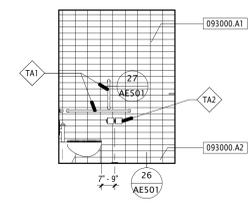
8 WOMEN'S 104 - NORTH
AE400/ 1/4" = 1'-0"



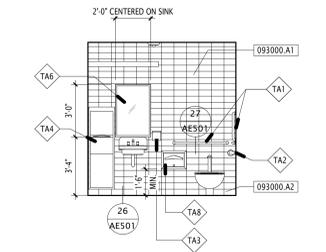
7 WOMEN'S 104 - WEST
AE400/ 1/4" = 1'-0"



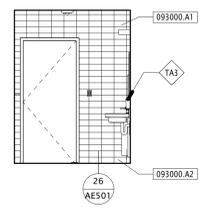
6 WOMEN'S 104 - SOUTH
AE400/ 1/4" = 1'-0"



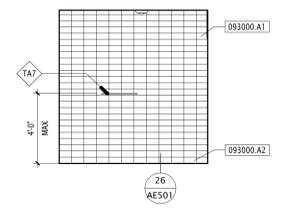
5 MEN'S 103 - WEST
AE400/ 1/4" = 1'-0"



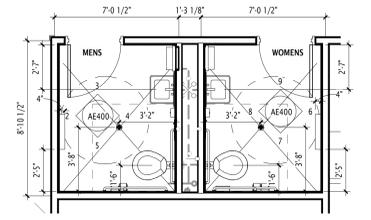
4 MEN'S 103 - SOUTH
AE400/ 1/4" = 1'-0"



3 MEN'S 103 - EAST
AE400/ 1/4" = 1'-0"



2 MEN'S 103 - NORTH
AE400/ 1/4" = 1'-0"



1 ENLARGED RESTROOMS RM. 103 & 104
AE400/ 1/4" = 1'-0"



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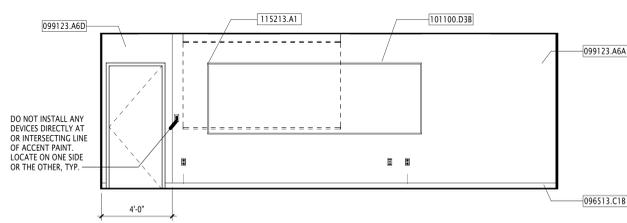
4100 STATE OFFICE
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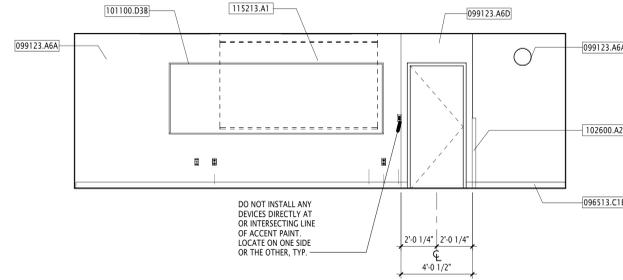
ENLARGED RESTROOMS & ELEVATIONS

REVISIONS:

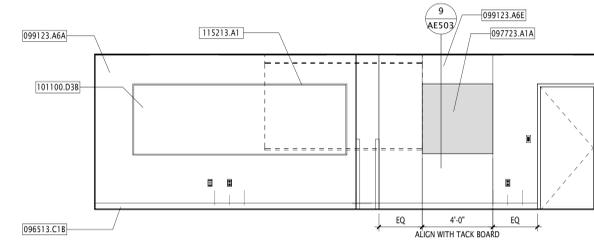
BACKING NOTES:	GENERAL NOTES:	EQUIPMENT LEGEND
BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING: ALL DOOR STOPS ALL GRAB BARS ALL TOILET PAPER AND TOWER DISPENSERS. ALL MIRRORS ALL TELEVISIONS ALL AV CABINETS ALL PROJECTORS ALL WALL HOOKS WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING. REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS. PLYWOOD BACKING REQUIRED AT DATA ROOM.	1. ALL EXPOSED MILLWORK TO BE SCHEDULED PLASTIC LAMINATE TO MATCH FINISH FACE. 2. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED. 3. PROVIDE FILLER ON ALL MILLWORK AS NEEDED. USE SAME CABINET FACE PLASTIC LAMINATE AS FINISH FACE. 4. FOR MILLWORK DEPTHS, SEE FLOOR PLAN OR ENLARGED PLAN. 5. SEE AE-600 FOR SCHEDULED FINISHES AND MILLWORK 6. BACKSPLASHES TO BE 4" HIGH EXCEPT WHERE WINDOW SILL IS LESS THAN 3'-2". THEN BACKSPLASH SHOULD BE OF LEVEL HEIGHT WITH SILL. 7. ALL INTERIOR COLUMNS TO BE PAINTED, P3. 8. COUNTER SUPPORTS TO MATCH COUNTER FINISH AND PLACED @ NO MORE THAN 4'-0" APART. 9. ALL DRAWERS / DOORS TO BE LOCKING.	096513.C1B 4" RUBBER BASE 097723.A1A FABRIC WRAPPED PANEL TACKBOARD (T2), FELT FACED. 4' X 4' PROVIDED AND INSTALLED BY CONTRACTOR. 099123.A3A EXISTING STEEL COLUMN, PAINTED (P3) 099123.A6A 5/8" GYPSUM BOARD, PAINTED (P1) 099123.A6D 5/8" GYPSUM BOARD, PAINTED (P4) 099123.A6E 5/8" GYPSUM BOARD, PAINTED (P5) 101100.D3B WHITEBOARD, 12' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 101100.D3C WHITEBOARD, 16' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 101100.D3D WHITEBOARD, 4' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 101100.D3E WHITEBOARD, 8' X 4', PROVIDED AND INSTALLED BY CONTRACTOR. 102600.A2 STAINLESS STEEL CORNER GUARD 115213.A1 MANUALLY OPERATED FRONT PROJECTION SCREEN 122413.A1 MANUALLY OPERATED ROLLER SHADE AT ALL EXTERIOR WINDOWS EXCEPT LOBBY 123000-MIL-2 WALL MOUNTED COUNTER, PROVIDED AND INSTALLED BY CONTRACTOR. 123000-MIL-4 ENGINEERING STORAGE CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR. 224500.A1 EMERGENCY EYEWASH



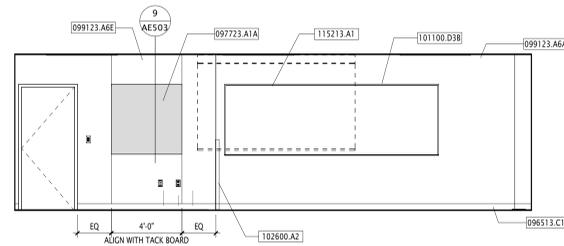
13 SHARED CLASSROOM 207 - TEACHING WALL
AE404 / 1/4" = 1'-0"



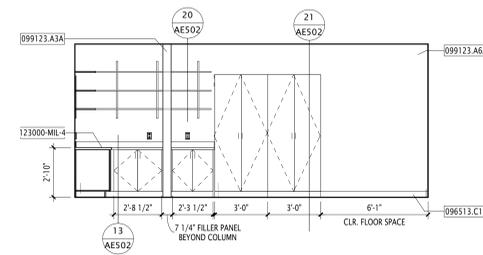
12 SHARED CLASSROOM 208 TEACHING WALL
AE404 / 1/4" = 1'-0"



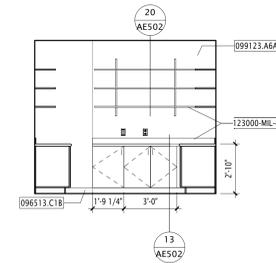
11 SHARED COMPUTER LAB 212 TEACHING WALL
AE404 / 1/4" = 1'-0"



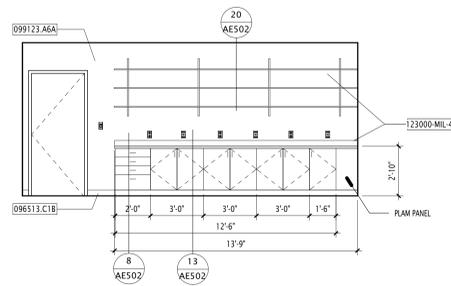
10 SHARED COMPUTER LAB 213 TEACHING WALL
AE404 / 1/4" = 1'-0"



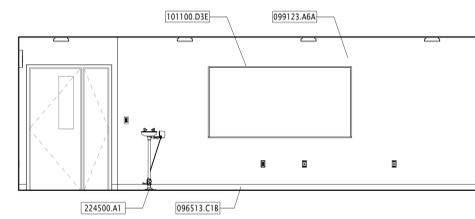
9 ENGINEERING STORAGE 109 - EAST
AE404 / 1/4" = 1'-0"



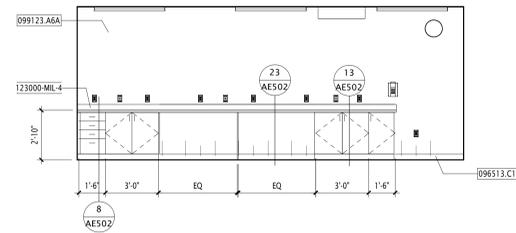
8 ENGINEERING STORAGE 109 - NORTH
AE404 / 1/4" = 1'-0"



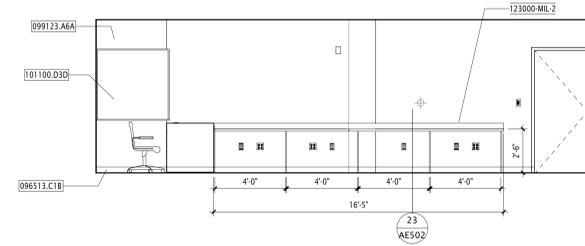
7 ENGINEERING STORAGE 109 - WEST
AE404 / 1/4" = 1'-0"



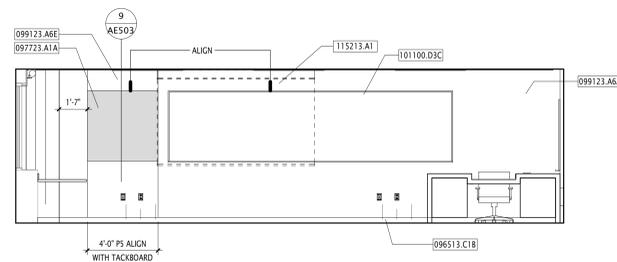
2 ENGINEERING SHOP 108 - WEST
AE404 / 1/4" = 1'-0"



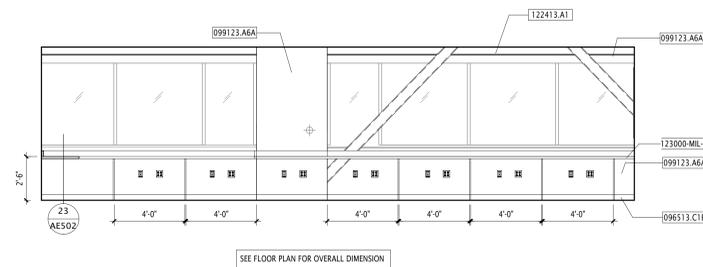
6 ENGINEERING SHOP 108 - SOUTH
AE404 / 1/4" = 1'-0"



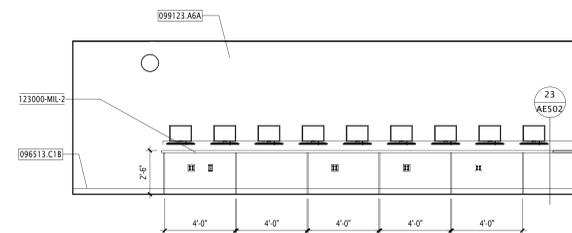
5 ENGINEERING SPACE 114 - WEST
AE404 / 1/4" = 1'-0"



4 ENGINEERING SPACE 114 - SOUTH
AE404 / 1/4" = 1'-0"



3 ENGINEERING SPACE 114 - EAST
AE404 / 1/4" = 1'-0"



1 ENGINEERING SPACE 114 - NORTH
AE404 / 1/4" = 1'-0"



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LAKE CITY, UT 84114

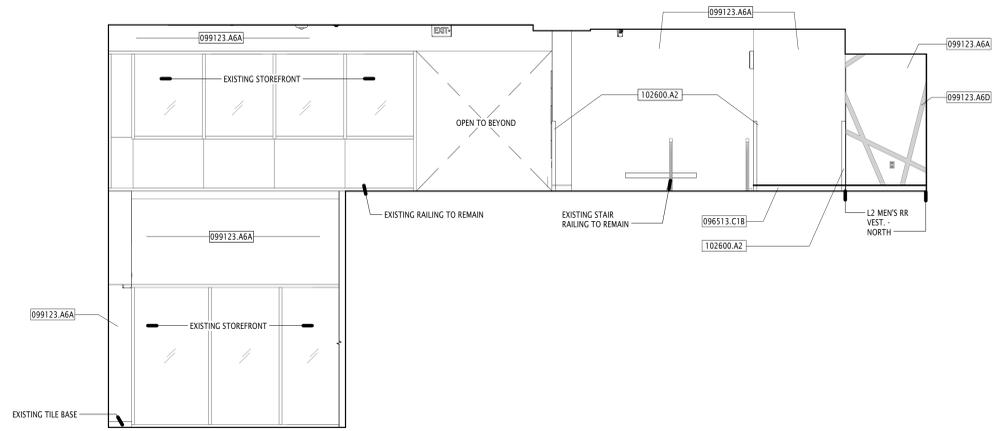
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

CLASSROOM INTERIOR
ELEVATIONS

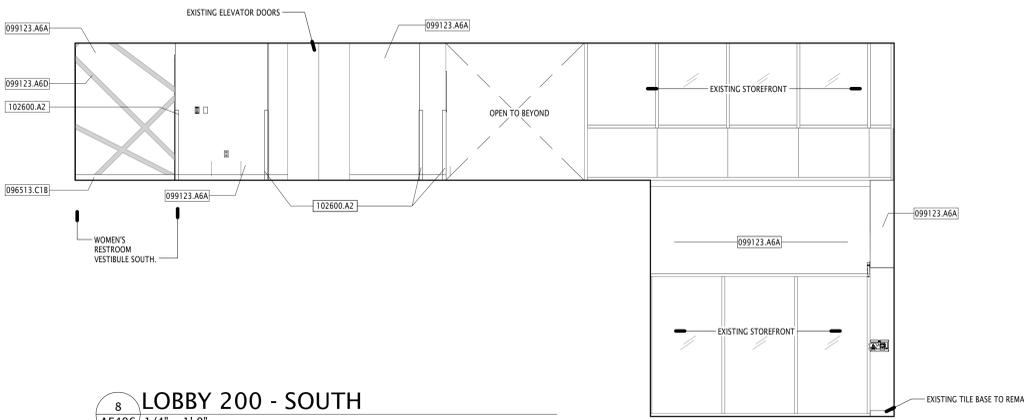
REVISIONS:

BACKING NOTES:	GENERAL NOTES:
BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING: ALL DOOR STOPS ALL GRAB BARS ALL TOILET PAPER AND TOWER DISPENSERS ALL MIRRORS ALL TELEVISIONS ALL AV CABINETS ALL PROJECTORS ALL WALL HOOKS WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING. REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS. PLYWOOD BACKING REQUIRED AT DATA ROOM.	1. ALL EXPOSED MILLWORK TO BE SCHEDULED PLASTIC LAMINATE TO MATCH FINISH FACE. 2. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED. 3. PROVIDE FILLER ON ALL MILLWORK AS NEEDED. USE SAME CABINET FACE PLASTIC LAMINATE AS FINISH FACE. 4. FOR MILLWORK DEPTHS, SEE FLOOR PLAN OR ENLARGED PLAN. 5. SEE AE-600 FOR SCHEDULED FINISHES AND MILLWORK. 6. BACKSPLASHES TO BE 4" HIGH EXCEPT WHERE WINDOW SILL IS LESS THAN 3'-2". THEN BACKSPLASH SHOULD BE OF LEVEL HEIGHT WITH SILL. 7. ALL INTERIOR COLUMNS TO BE PAINTED, P3. 8. COUNTER SUPPORTS TO MATCH COUNTER FINISH AND PLACED # NO MORE THAN 4'-0" APART. 9. ALL DRAWERS / DOORS TO BE LOCKING.

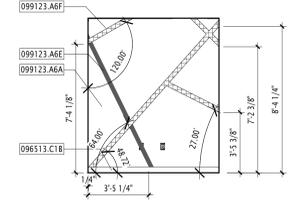
EQUIPMENT LEGEND	
096513.C1B	4" RUBBER BASE
097723.A1A	FABRIC WRAPPED PANEL TACKBOARD (T2). FELT FACED. 4' X 4' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1C	FABRIC WRAPPED PANEL TACKBOARD (T1). FELT FACED. 1' X 1' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1D	FABRIC WRAPPED PANEL TACKBOARD (T2). FELT FACED. 1' X 1' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1E	FABRIC WRAPPED PANEL TACKBOARD (T2). FELT FACED. 1' X 1' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1F	FABRIC WRAPPED PANEL TACKBOARD (T3). FELT FACED. 1' X 1'-6" PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1G	FABRIC WRAPPED PANEL TACKBOARD (T1). FELT FACED. 2' X 2' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1H	FABRIC WRAPPED PANEL TACKBOARD (T2). FELT FACED. 1' X 4'-6" PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1I	FABRIC WRAPPED PANEL TACKBOARD (T3). FELT FACED. 1' X 4'-6" PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1J	FABRIC WRAPPED PANEL TACKBOARD (T3). FELT FACED. 1' X 3' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1K	FABRIC WRAPPED PANEL TACKBOARD (T4). FELT FACED. 1' X 3' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1L	FABRIC WRAPPED PANEL TACKBOARD (T4). FELT FACED. 2' X 3' PROVIDED AND INSTALLED BY CONTRACTOR.
097723.A1M	FABRIC WRAPPED PANEL TACKBOARD (T3). FELT FACED. 1' X 3'-6" PROVIDED AND INSTALLED BY CONTRACTOR.
099123.A6A	5/8" GYPSUM BOARD, PAINTED (P1)
099123.A6D	5/8" GYPSUM BOARD, PAINTED (P4)
099123.A6E	5/8" GYPSUM BOARD, PAINTED (P5)
099123.A6F	5/8" GYPSUM BOARD, PAINTED (P6)
102600.A2	STAINLESS STEEL CORNER GUARD
FFE.4	FLAT SCREEN TELEVISION. PROVIDED BY OWNERS. INSTALLED BY CONTRACTOR.



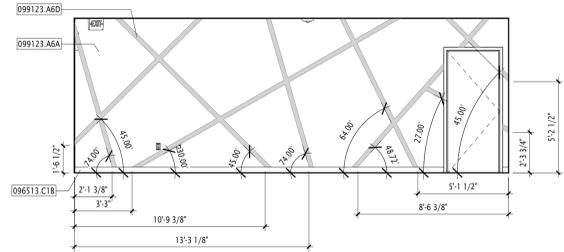
11 LOBBY 200 - NORTH
AE406/ 1/4" = 1'-0"



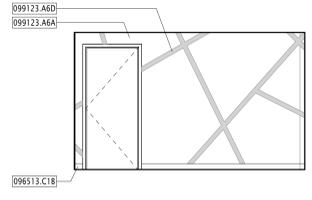
8 LOBBY 200 - SOUTH
AE406/ 1/4" = 1'-0"



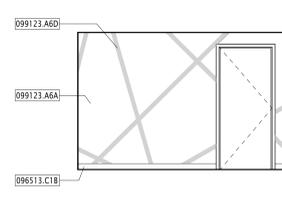
10 HALLWAY 200 - SOUTH
AE406/ 1/4" = 1'-0"



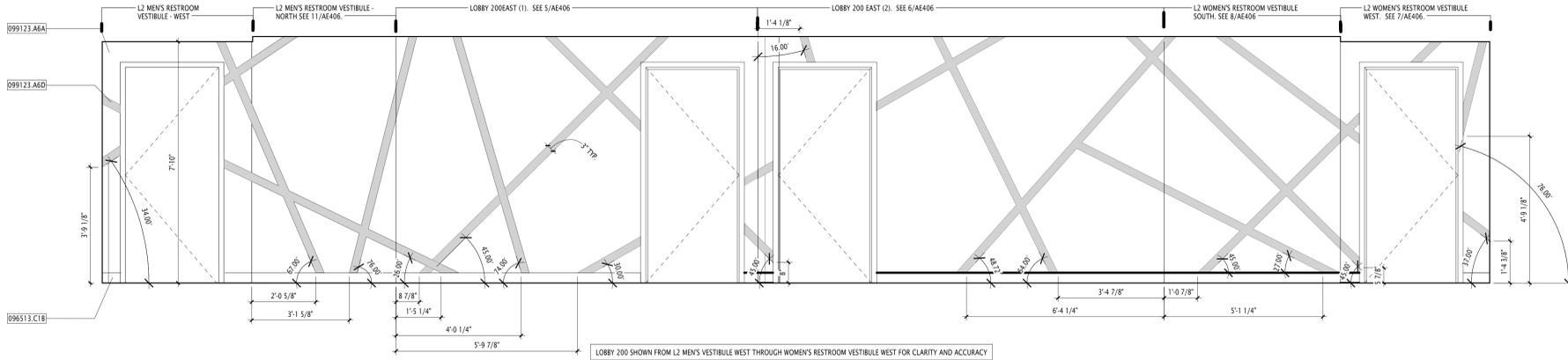
9 STUDENT GATHERING 200A - WEST
AE406/ 1/4" = 1'-0"



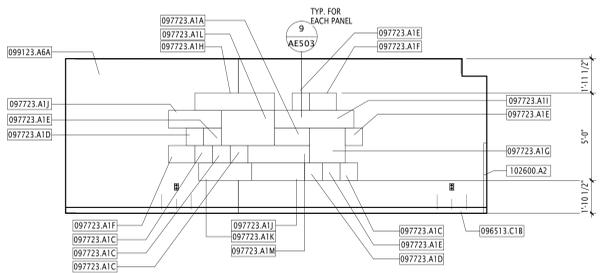
6 LOBBY 200 - EAST (2)
AE406/ 1/4" = 1'-0"



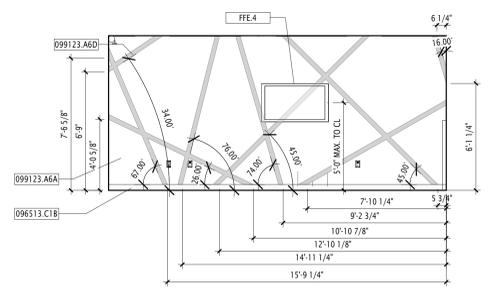
5 LOBBY 200 - EAST (1)
AE406/ 1/4" = 1'-0"



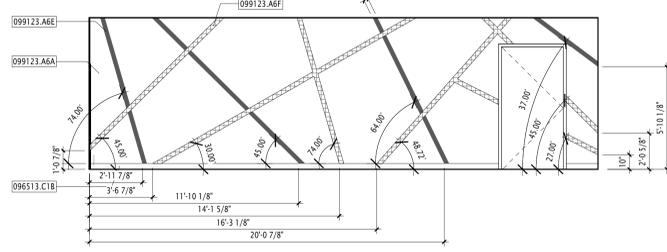
4 L2 MEN'S RR VEST. - WEST / L2 MEN'S RR VEST. - NORTH / LOBBY 200 - EAST (1) / LOBBY 200 - EAST (2) / L2 WOMEN'S RR VEST. - SOUTH / L2 WOMEN'S RR VEST. - WEST
AE406/ 1/2" = 1'-0"



3 LOBBY / HALLWAY 200 - EAST
AE406/ 1/4" = 1'-0"



2 STUDENT GATHERING 232 - NORTH
AE406/ 1/4" = 1'-0"



1 STUDENT GATHERING 200C - WEST (1)
AE406/ 1/4" = 1'-0"



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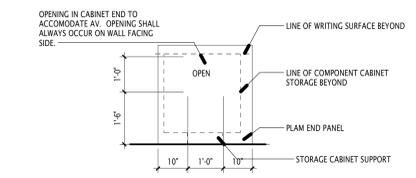
4100 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

INTERIOR ELEVATIONS

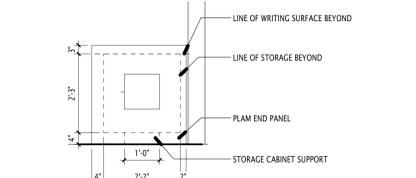
REVISIONS:

BACKING NOTES:	GENERAL NOTES:	EQUIPMENT LEGEND																										
<p>BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING:</p> <p>ALL DOOR STOPS ALL CORB BARS ALL TOILET PAPER AND TOWER DISPENSERS ALL MIRRORS ALL TELEVISIONS ALL AV CABINETS ALL PROJECTORS ALL WALL HOOKS</p> <p>WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING.</p> <p>REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS.</p> <p>PLYWOOD BACKING REQUIRED AT DATA ROOM.</p>	<p>1. ALL EXPOSED MILLWORK TO BE SCHEDULED PLASTIC LAMINATE TO MATCH FINISH FACE.</p> <p>2. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.</p> <p>3. PROVIDE FILLER ON ALL MILLWORK AS NEEDED. USE SAME CABINET FACE PLASTIC LAMINATE AS FINISH FACE.</p> <p>4. FOR MILLWORK DEPTHS, SEE FLOOR PLAN OR ENLARGED PLAN.</p> <p>5. SEE AE-600 FOR SCHEDULED FINISHES AND MILLWORK.</p> <p>6. BACKSPASHES TO BE 4" HIGH EXCEPT WHERE WINDOW SILL IS LESS THAN 3'-2". THEN BACKSPASH SHOULD BE OF LEVEL HEIGHT WITH SILL.</p> <p>7. ALL INTERIOR COLUMNS TO BE PAINTED, P3.</p> <p>8. COUNTER SUPPORTS TO MATCH COUNTER FINISH AND PLACED @ NO MORE THAN 4'-0" APART.</p> <p>9. ALL DRAWERS / DOORS TO BE LOCKING.</p>	<table border="1"> <tr><td>093000.A1</td><td>CERAMIC TILE (CT1)</td></tr> <tr><td>093000.A2</td><td>CERAMIC TILE BASE (CTB)</td></tr> <tr><td>093000.A3</td><td>CERAMIC TILE (CT2)</td></tr> <tr><td>093000.A4</td><td>CERAMIC TILE BAE (CTB2)</td></tr> <tr><td>096513.C1B</td><td>4" RUBBER BASE</td></tr> <tr><td>099123.A6A</td><td>5/8" GYPSUM BOARD, PAINTED (P1)</td></tr> <tr><td>099123.A6B</td><td>5/8" GYPSUM BOARD, PAINTED (P2)</td></tr> <tr><td>099123.A6E</td><td>5/8" GYPSUM BOARD, PAINTED (P5)</td></tr> <tr><td>099123.A6F</td><td>5/8" GYPSUM BOARD, PAINTED (P6)</td></tr> <tr><td>102800.K1</td><td>MOP AND BROOM HOLDER W/ SHELF</td></tr> <tr><td>123000-MIL-11</td><td>FACULTY LOUNGE BASE AND UPPER CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR.</td></tr> <tr><td>123000-MIL-12</td><td>FACULTY LOUNGE MAIL SLOTS AND BASE CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR.</td></tr> <tr><td>224713.A1</td><td>WALL-MOUNTED DRINKING FOUNTAIN</td></tr> </table>	093000.A1	CERAMIC TILE (CT1)	093000.A2	CERAMIC TILE BASE (CTB)	093000.A3	CERAMIC TILE (CT2)	093000.A4	CERAMIC TILE BAE (CTB2)	096513.C1B	4" RUBBER BASE	099123.A6A	5/8" GYPSUM BOARD, PAINTED (P1)	099123.A6B	5/8" GYPSUM BOARD, PAINTED (P2)	099123.A6E	5/8" GYPSUM BOARD, PAINTED (P5)	099123.A6F	5/8" GYPSUM BOARD, PAINTED (P6)	102800.K1	MOP AND BROOM HOLDER W/ SHELF	123000-MIL-11	FACULTY LOUNGE BASE AND UPPER CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR.	123000-MIL-12	FACULTY LOUNGE MAIL SLOTS AND BASE CABINETS, PROVIDED AND INSTALLED BY CONTRACTOR.	224713.A1	WALL-MOUNTED DRINKING FOUNTAIN
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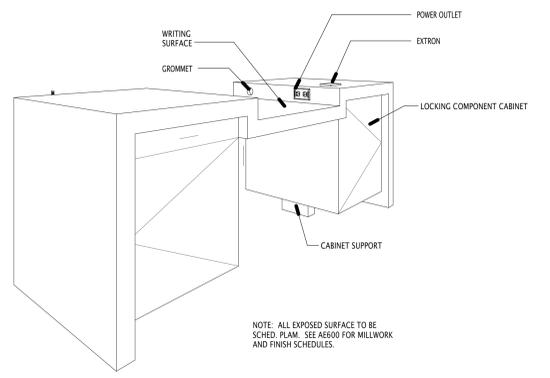
NOTE: SEE FFE PLANS TO DETERMINE ON WHICH SIDE OF DESK THE AV CABINET OCCURS WHERE DESK IS AGAINST THE WALL. SOME DESKS WILL BE MADE AS SHOWN. SOME WILL BE MIRRORRED ACCORDING TO LOCATION OF AV.

TEACHING STATION - WALL FACING SIDE
11
AE407 1/2" = 1'-0"



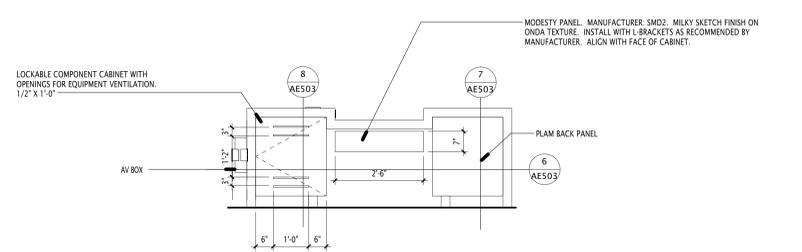
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TEACHING STATION - CLASSROOM FACING SIDE
9
AE407 1/2" = 1'-0"



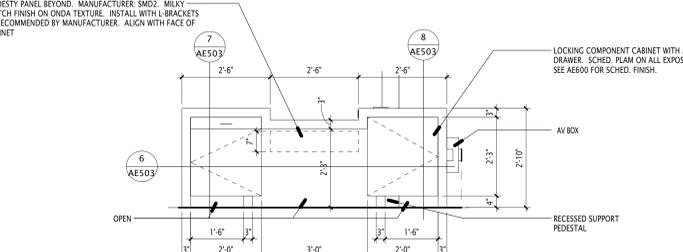
NOTE: ALL EXPOSED SURFACE TO BE SCHED. PLAM. SEE AE600 FOR MILLWORK AND FINISH SCHEDULES.

TEACHING STATION
10
AE407



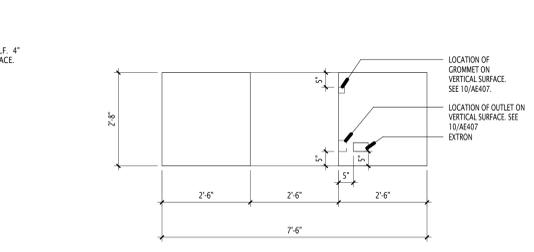
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TEACHING STATION - REAR (CLASSROOM FACING)
8
AE407 1/2" = 1'-0"

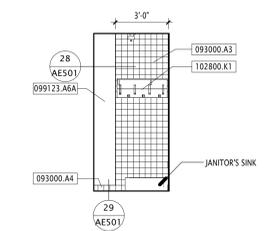


NOTE: SEE FFE PLANS TO DETERMINE ON WHICH SIDE OF DESK THE AV CABINET OCCURS WHERE DESK IS AGAINST THE WALL. SOME DESKS WILL BE MADE AS SHOWN. SOME WILL BE MIRRORRED ACCORDING TO LOCATION OF AV.

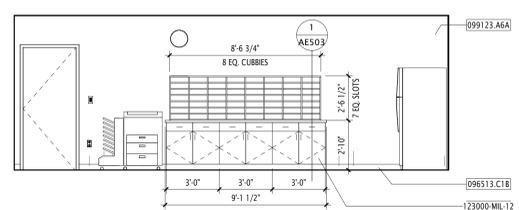
TEACHING STATION - FRONT (TEACHER FACING)
7
AE407 1/2" = 1'-0"



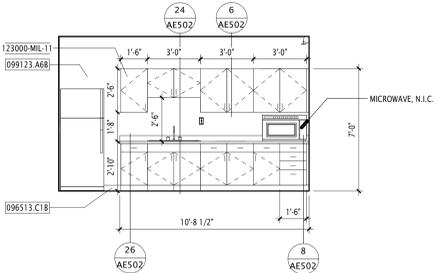
ENLARGED TEACHING STATION
6
AE407 1/2" = 1'-0"



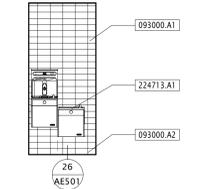
JANITOR 209 - EAST
4
AE407 1/4" = 1'-0"



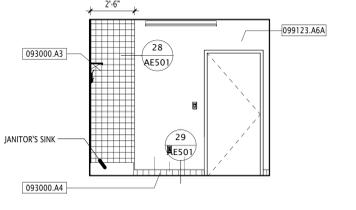
FACULTY ROOM 201 - EAST
3
AE407 1/4" = 1'-0"



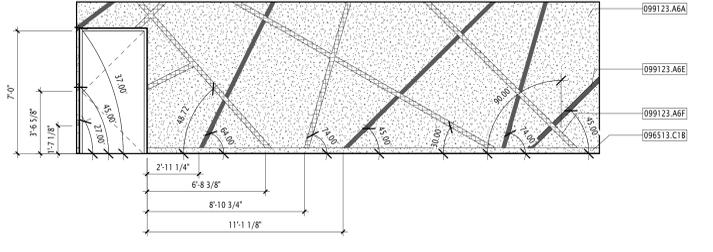
FACULTY ROOM 201 - SOUTH
2
AE407 1/4" = 1'-0"



DRINKING FOUNTAIN, TYP.
12
AE407 1/4" = 1'-0"



JANITOR 209 - SOUTH
5
AE407 1/4" = 1'-0"



STUDENT GATHERING 200B - SOUTH
1
AE407 1/4" = 1'-0"



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OWNER PROJECT NO.: 14297810
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INTERIOR ELEVATIONS

REVISIONS:

NO.	DESCRIPTION	DATE

BACKING NOTES:

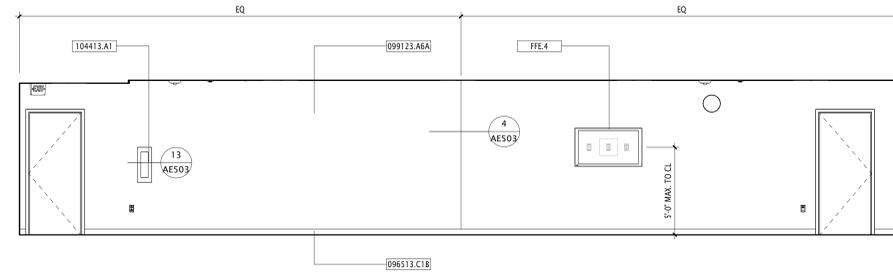
BACKING IS REQUIRED FOR, BUT NOT LIMITED TO, ALL OF THE FOLLOWING:
ALL DOOR STOPS
ALL CRAB BARS
ALL TOILET PAPER AND TOWER DISPENSERS
ALL MIRRORS
ALL TELEVISIONS
ALL AV CABINETS
ALL PROJECTORS
ALL WALL HOOKS
WHITEBOARDS AND TACKBOARDS CAN BE MOUNTED DIRECTLY TO STUDS AND DO NOT REQUIRE ADDITIONAL BACKING.
REFER TO 092216 NON-STRUCTURAL METAL FRAMING FOR BACKING PRODUCTS AND ADDITIONAL REQUIREMENTS.
PLYWOOD BACKING REQUIRED AT DATA ROOM.

GENERAL NOTES:

1. ALL EXPOSED MILLWORK TO BE SCHEDULED PLASTIC LAMINATE TO MATCH FINISH FACE.
2. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.
3. PROVIDE FILLER ON ALL MILLWORK AS NEEDED. USE SAME CABINET FACE PLASTIC LAMINATE AS FINISH FACE.
4. FOR MILLWORK DEPTHS, SEE FLOOR PLAN OR ENLARGED PLAN.
5. SEE AE-600 FOR SCHEDULED FINISHES AND MILLWORK.
6. BACKPLASHES TO BE 4" HIGH EXCEPT WHERE WINDOW SILL IS LESS THAN 9"2". THEN BACKPLASH SHOULD BE OF LEVEL HEIGHT WITH SILL.
7. ALL INTERIOR COLUMNS TO BE PAINTED, F3.
8. COUNTER SUPPORTS TO MATCH COUNTER FINISH AND PLACED @ NO MORE THAN 4'-0" APART.
9. ALL DRAWERS / DOORS TO BE LOCKING.

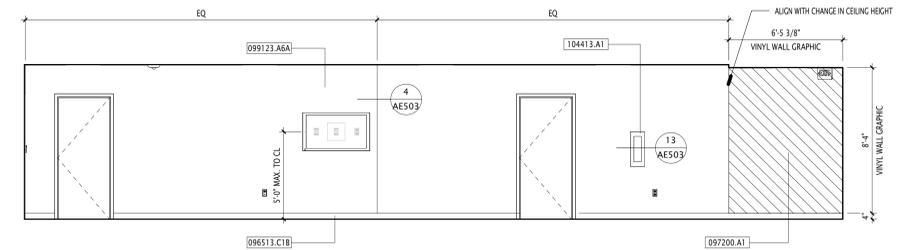
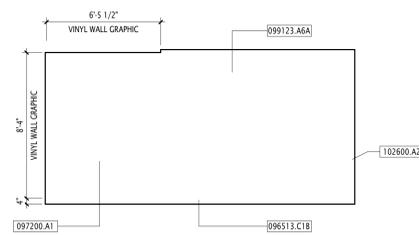
EQUIPMENT LEGEND

096513.C1B	4" RUBBER BASE
097200.A1	VINYL GRAPHIC WALL COVERING
099123.A6A	5/8" GYPSUM BOARD, PAINTED (P1)
102600.A2	STAINLESS STEEL CORNER GUARD
104413.A1	FIRE PROTECTION CABINET
FFE.4	FLAT SCREEN TELEVISION. PROVIDED BY OWNERS. INSTALLED BY CONTRACTOR.



9 STUDENT GATHERING 200B / HALLWAY 200 - EAST

AE408 / 1/4" = 1'-0"

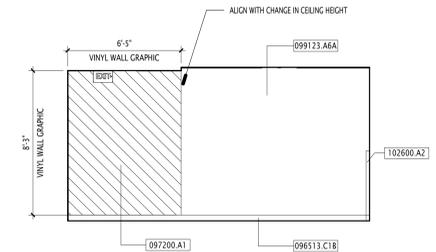
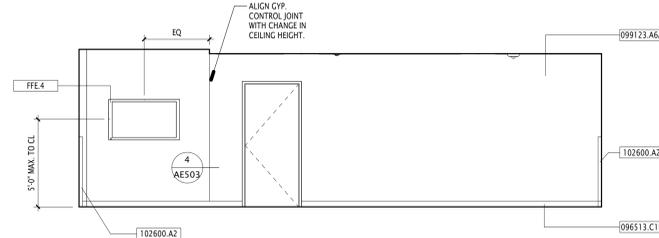
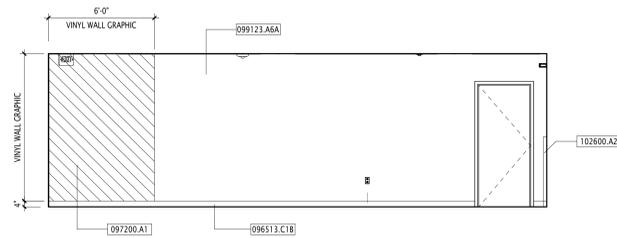
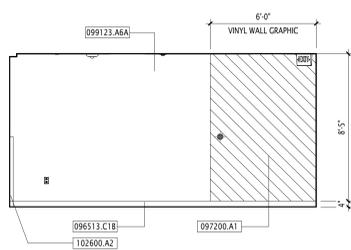


8 HALLWAY 200 - SOUTH (2)

AE408 / 1/4" = 1'-0"

7 STUDENT GATHERING 200C / HALLWAY 200 - EAST

AE408 / 1/4" = 1'-0"



6 HALLWAY 100 - SOUTH (3)

AE408 / 1/4" = 1'-0"

5 HALLWAY 100 - WEST (2)

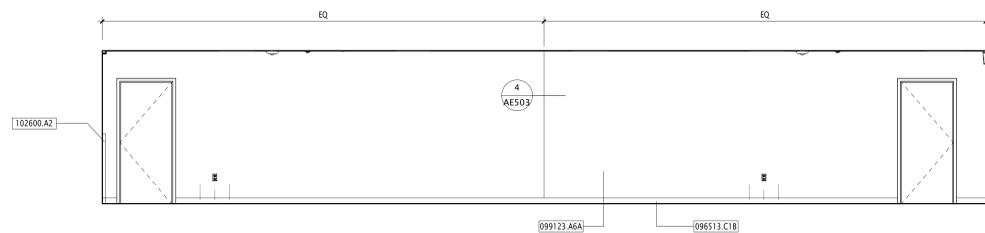
AE408 / 1/4" = 1'-0"

4 HALLWAY 100 - EAST (2)

AE408 / 1/4" = 1'-0"

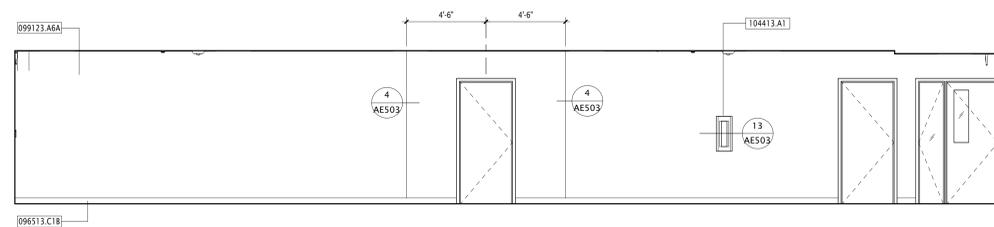
3 HALLWAY 100 - SOUTH (2)

AE408 / 1/4" = 1'-0"



2 HALLWAY 100 - WEST

AE408 / 1/4" = 1'-0"



1 HALLWAY 100 - EAST

AE408 / 1/4" = 1'-0"



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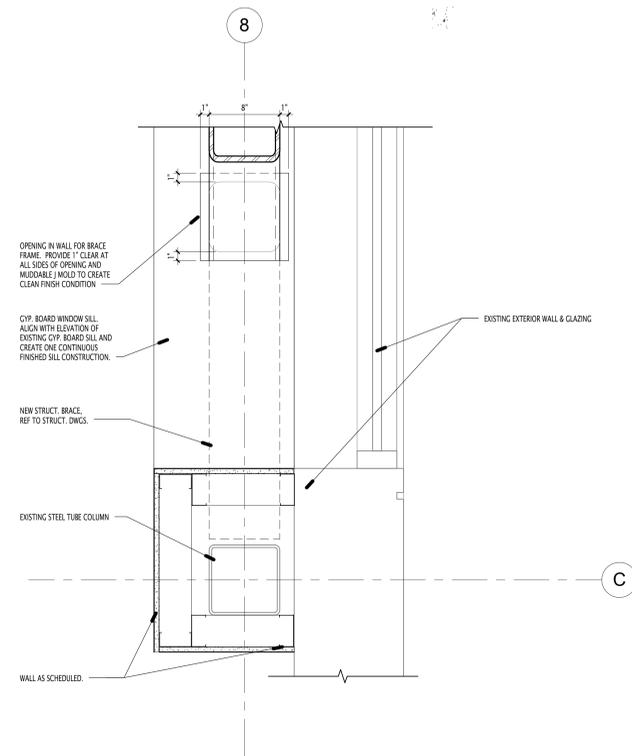
DFCM

4100 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

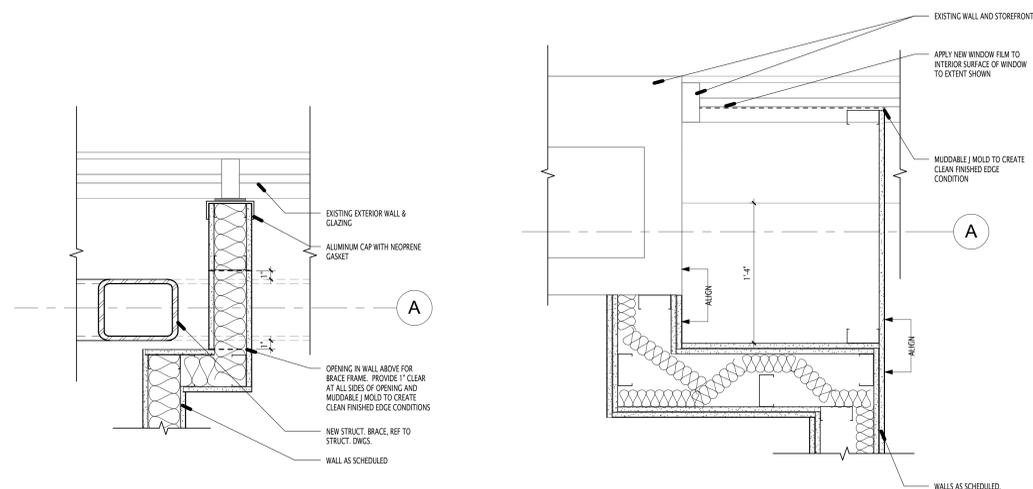
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

INTERIOR ELEVATIONS

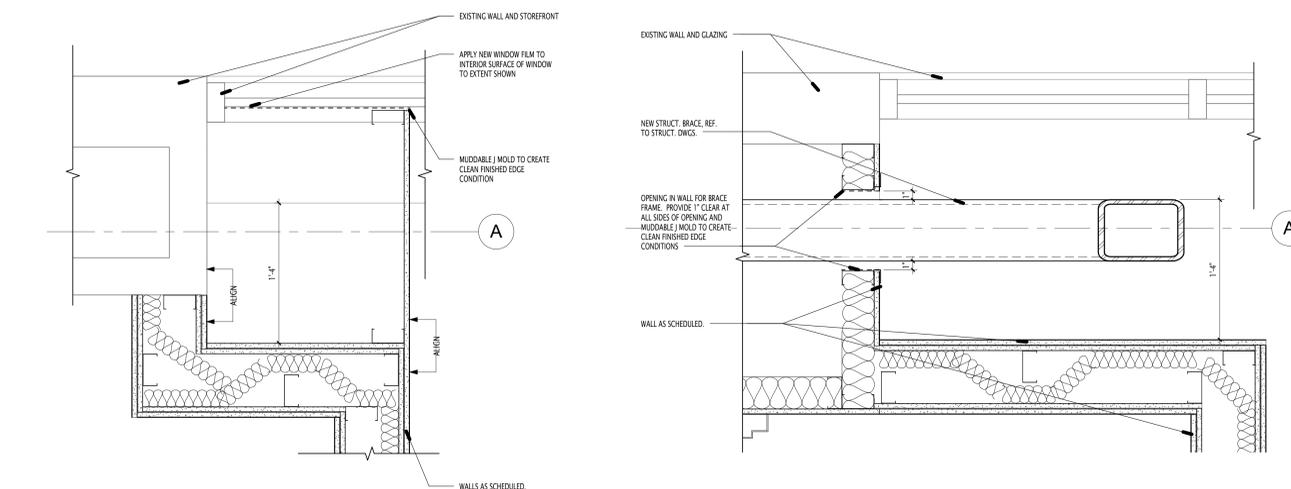
REVISIONS:



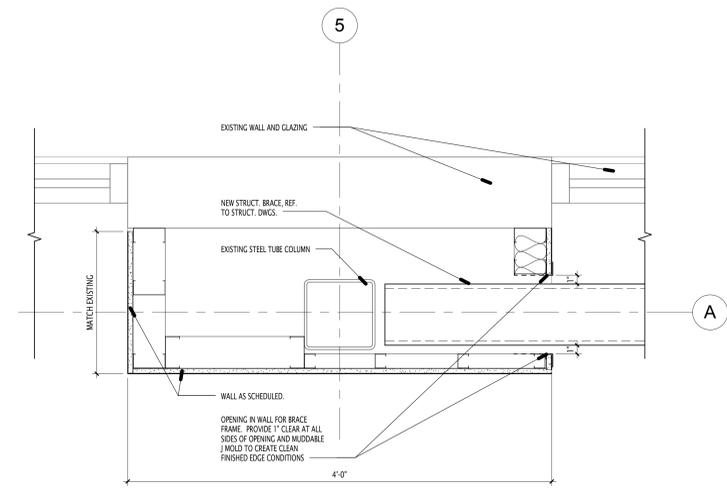
5 LEVEL 1 - PLAN DETAIL 3
AE500 1 1/2" = 1'-0"



4 TYPICAL BRACED FRAME WALL PENETRATION DETAIL 2
AE500 1 1/2" = 1'-0"



2 LEVEL 1 - PLAN DETAIL 1
AE500 1 1/2" = 1'-0"



1 TYPICAL BRACED FRAME WALL PENETRATION DETAIL
AE500 1 1/2" = 1'-0"



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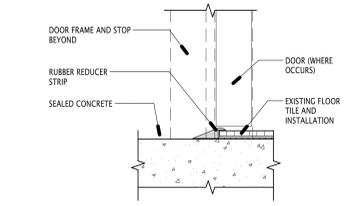
DFCM

4110 STATE OFFICE
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STATE STREET SALT
LAKE CITY, UT 84114

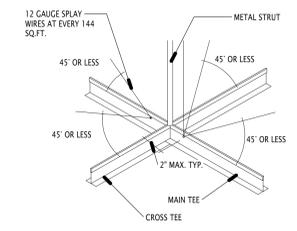
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

PLAN DETAILS

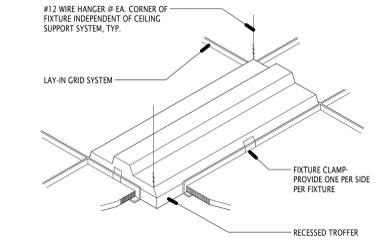
REVISIONS:



20 CONCRETE - EXISTING TILE
AE501 / 3" = 1'-0"



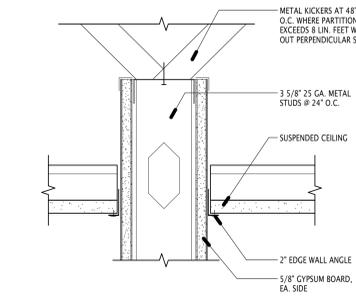
5 SEISMIC CLIP DETAIL
AE501 / 1/2" = 1'-0"



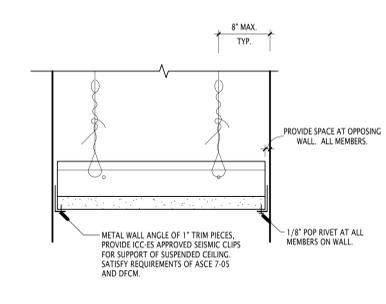
4 FIXTURE SUPPORT DETAIL
AE501 / 1 : 1

NOTE 1- ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.
NOTE 2- ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.
NOTE 3- COMPLY WITH IBC 2012, CISCA 3-4 & ASCE7 9.6.2.6., ASCE 13.5.6.2.2 & ASTM C836-96
NOTE 4- SPLAY WIRES SHALL ATTACH TO STRUCTURAL GIRDER OR JOIST ONLY, DO NOT ATTACH TO ROOF DECK.
NOTE 5- METAL STRUT FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. THE STRUT SHALL BE ADEQUATE TO RESIST THE VERTICAL COMPONENT INDUCED BY THE BRACING WIRES.
NOTE 6- ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM WHEN HEAVY SYSTEMS ARE USED. ATTACH NO. 12 GAGE HANGERS TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. LIGHT FIXTURES WEIGHING LESS THAN 55 LBS. SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. COMPLY WITH IBC STANDARDS.
NOTE 7- CEILING MOUNTED AIR TERMINALS WEIGHING LESS THAN 20 LBS. SHALL BE POSITIVELY ATTACHED TO THE CEILING. SUSPENSION MAIN RUNNERS, TERMINALS OR SERVICES WEIGHING 20 LBS., BUT NOT MORE THAN 55 LBS., SHALL IN ADDITION HAVE TWO NO. 12 GAGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. TERMINALS OR SERVICES WEIGHING MORE THAN 55 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS. COMPLY WITH IBC STANDARDS.

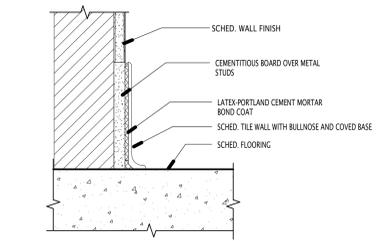
9 SEISMIC CEILING BRACING
AE501 / 1 1/2" = 1'-0"



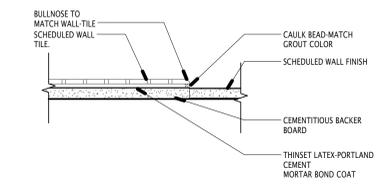
8 STANDARD-T.O GYP. BD. WALL
AE501 / 3" = 1'-0"



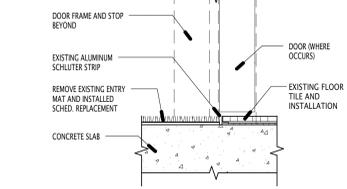
3 SEISMIC EDGE DETAIL
AE501 / 3" = 1'-0"



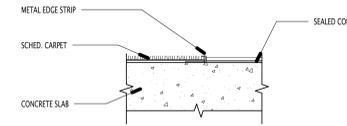
29 TILE COVE BASE @ GYP. WALL
AE501 / 3" = 1'-0"



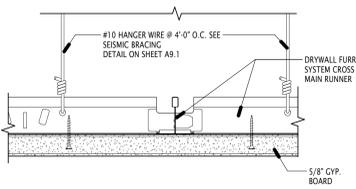
28 EDGE OF TILE
AE501 / 3" = 1'-0"



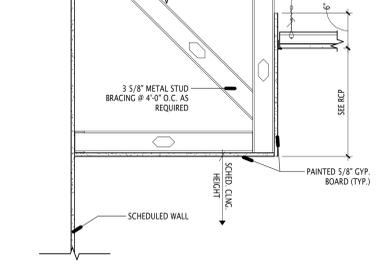
19 ENTRY MAT - EXISTING TILE
AE501 / 3" = 1'-0"



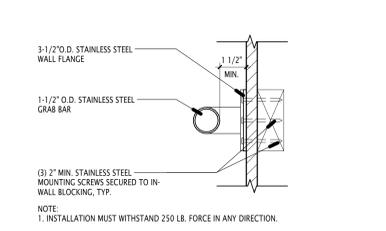
18 CARPET - LVT
AE501 / 3" = 1'-0"



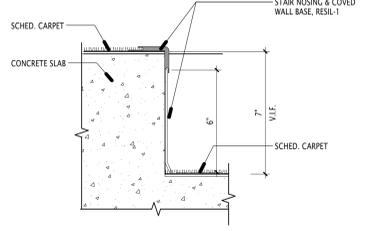
7 SUSPENDED GYP. BD. CEILING
AE501 / 6" = 1'-0"



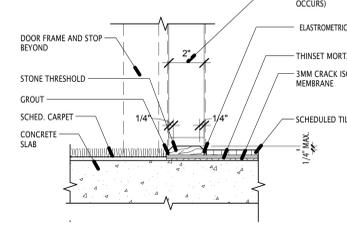
2 TYP. SOFFIT DETAIL
AE501 / 1" = 1'-0"



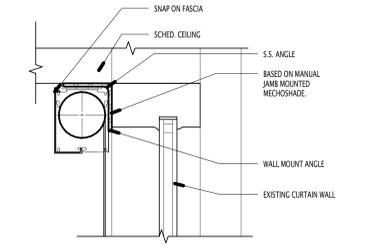
27 STANDARD-GRAB BAR DETAIL
AE501 / 3" = 1'-0"



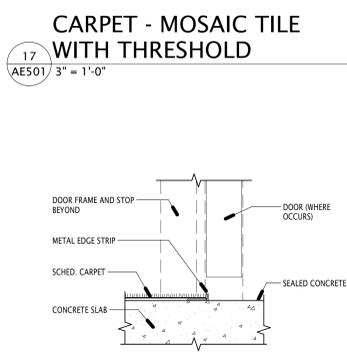
22 RESIL-1 @ MAIN STAIR
AE501 / 3" = 1'-0"



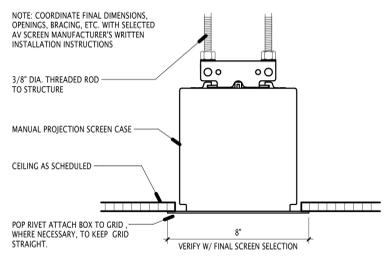
17 CARPET - MOSAIC TILE WITH THRESHOLD
AE501 / 3" = 1'-0"



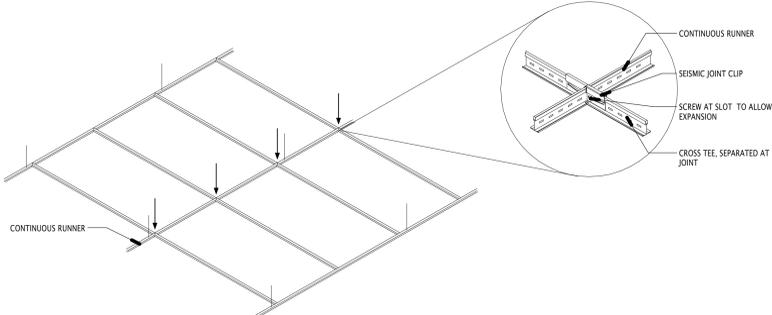
12 JAMB MOUNT MECHOSHADE
AE501 / 3" = 1'-0"



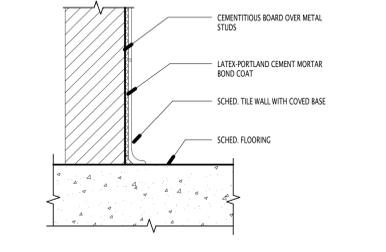
16 CARPET - CONCRETE
AE501 / 3" = 1'-0"



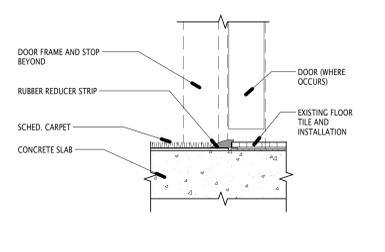
11 AV PROJECTOR SCREEN
AE501 / 3" = 1'-0"



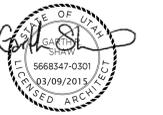
6 ACOUSTIC CEILING SEISMIC JOINT
AE501 / 1 1/2" = 1'-0"



26 TILE COVE BASE @ TILE WALL
AE501 / 3" = 1'-0"



21 CARPET - EXISTING TILE
AE501 / 3" = 1'-0"



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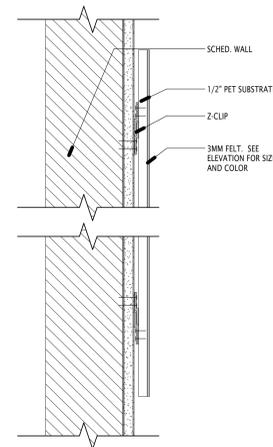
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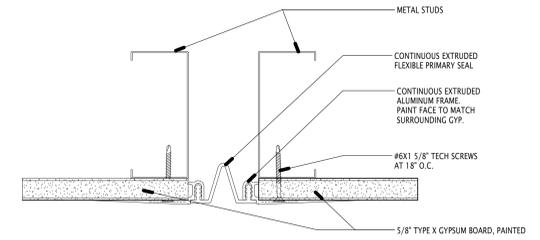
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

**CEILING, TRANSITION AND
RESTROOM DETAILS**

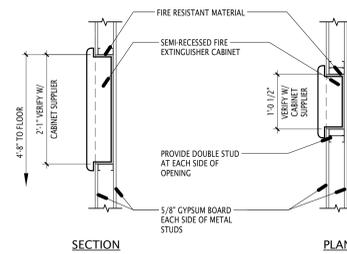
REVISIONS:



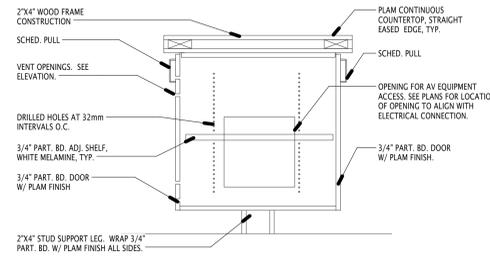
9 FELT WALL PANEL, TACKABLE
AE503 / 3\"/>



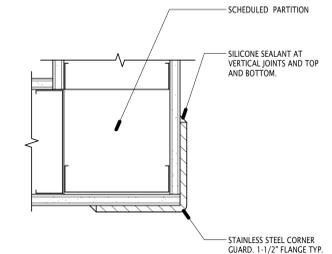
4 GYP. CONTROL JOINT
AE503 / 6\"/>



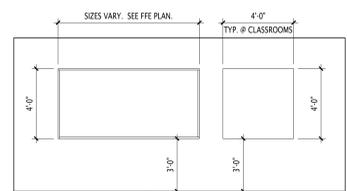
13 FIRE EXTINGUISHER CABINET
AE503 / 3\"/>



8 TEACHERS DESK - AV CABINET
AE503 / 1\"/>

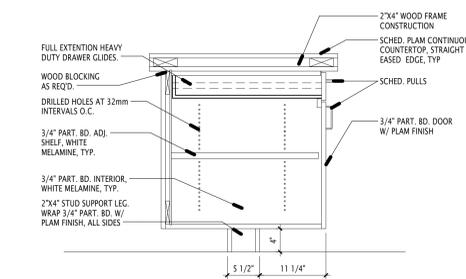


3 CORNER GUARD
AE503 / 3\"/>

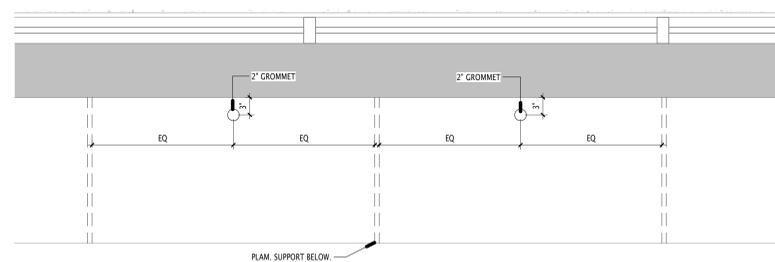


TYP. WHITE BOARD / FABRIC WRAPPED PANEL BOARD MOUNTING HEIGHTS

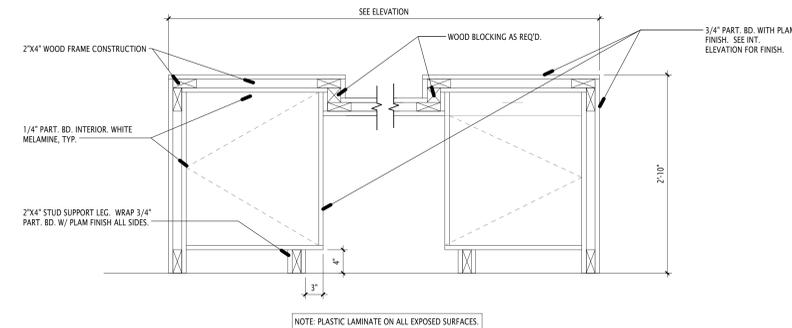
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AE503 / 1\"/>



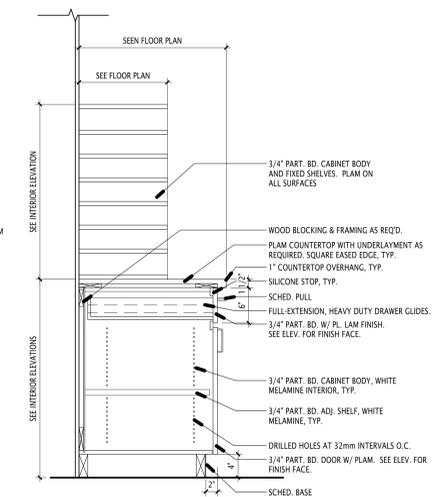
7 TEACHERS DESK - STORAGE CABINET
AE503 / 1\"/>



11 GROMMET LOCATION, TYP.
AE503 / 1\"/>



6 TEACHERS DESK
AE503 / 1\"/>



1 DRAWER / DOOR BASE / MAIL SLOTS
AE503 / 1\"/>



WSU DAVIS CAMPUS D13 REMODEL

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

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4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

INTERIOR DETAILS

REVISIONS:

MILLWORK SCHEDULE:		
ITEM KEY/NOTE	ITEM LOCATION	ITEM DESCRIPTION
123000-MIL-1	SHARED CLASSROOM TEACHING STATIONS	PLASTIC LAMINATE MULTI-LEVEL WORK SURFACE AND END PANELS: PL1 PLASTIC LAMINATE STORAGE CABINETS AND SUPPORTS BELOW: PL2 MODESTY PANEL: SMO2 MILKY SKETCH FINISH ON ONDA TEXTURE. OPENING AT SIDES INDICATED FOR AV. LOCKING / 4" WIRE PULLS 2" GROMMET, EXTROK AND OUTLET WHERE INDICATED.
123000-MIL-2	ENGINEERING SPACES AND COMPUTER LAB WALL-MOUNT COUNTERTOPS	PLASTIC LAMINATE COUNTERTOPS AT DEPTHS INDICATED ON PLAN: PL3 BACKSPLASH AND COUNTER SUPPORTS TO MATCH COUNTER. GROMMETS: SEE 8/AES03 FOR TYP. LOCATION. 2'-6" HIGH
123000-MIL-3	ENGINEERING SHOP	PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVING AT DEPTH INDICATED ON PLAN: PL4 PLASTIC LAMINATE WORK SURFACE AT DEPTHS INDICATED ON PLAN: PL2 UNDERCOUNTER OPENINGS AT LOCATIONS SHOWN. LOCKING / 4" WIRE PULLS
123000-MIL-4	ENGINEERING STORAGE	PLASTIC LAMINATE WORK SURFACES: PL2 PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVING: PL4 PLASTIC LAMINATE FULL HEIGHT CABINETS WITH ADJUSTABLE SHELVES: PL4 PLASTIC LAMINATE OPEN ADJUSTABLE SHELVES ON HEAVY DUTY STEEL SUPPORTS: PL2 LOCKING / 4" PULLS
123000-MIL-5	SHARED CLASSROOM CABINETS	PLASTIC LAMINATE WORK SURFACE AT DEPTHS INDICATED ON PLAN: PL2 PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVING AND LATERAL FILES AT DEPTHS INDICATED ON PLAN: PL4 PLASTIC LAMINATE FULL HEIGHT CABINETS WITH ADJUSTABLE SHELVES: PL4 LOCKING / 4" WIRE PULLS 4" BACKSPASH
123000-MIL-6	EXTENDED TEACHING STATION	PLASTIC LAMINATE MULTI-LEVEL WORK SURFACE AND END PANELS: PL1 PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVES, LATERAL FILES AND SUPPORTS BELOW: PL2 MODESTY PANEL: SMO2 MILKY SKETCH FINISH ON ONDA TEXTURE. OPENING AT SIDES INDICATED FOR AV. LOCKS WHERE INDICATED / 4" WIRE PULLS.
123000-MIL-7	BIOTECH / CHEM / BIOLOGY LAB	EPOXY RESIN MULTI-HEIGHT WORK SURFACES AT HEIGHTS AND DEPTHS INDICATED ON PLAN: SS PLASTIC LAMINATE BASE AND UPPER CABINETS WITH ADJUSTABLE SHELVING AND KNEE OPENINGS WHERE SHOWN AT DEPTHS INDICATED ON PLAN: PL1 PLASTIC LAMINATE CUBBY STORAGE FLUSH WITH WINDOW SILL AT DEPTH SHOWN ON PLAN: PL1 LOCKING / 4" WIRE PULLS 4" BACKSPASH
123000-MIL-8	BIOTECH / CHEM PREP STORAGE	EPOXY RESIN WORK SURFACES AT HEIGHTS AND DEPTHS INDICATED ON PLAN: SS PLASTIC LAMINATE BASE AND UPPER CABINETS WITH ADJUSTABLE SHELVING AND EQUIPMENT OPENINGS WHERE SHOWN AT DEPTHS INDICATED ON PLAN: PL1 LOCKING / 4" WIRE PULLS 4" BACKSPASH
123000-MIL-9	BIOLOGY PREP STORAGE	EPOXY RESIN WORK SURFACES AT HEIGHTS AND DEPTHS INDICATED ON PLAN: SS PLASTIC LAMINATE BASE AND UPPER CABINETS WITH ADJUSTABLE SHELVING AT DEPTHS INDICATED ON PLAN: PL1 LOCKING / 4" WIRE PULLS 4" BACKSPASH
123000-MIL-10	OFFICE STORAGE	PLASTIC LAMINATE WORK SURFACE: PL3 PLASTIC LAMINATE BASE CABINETS AND FULL HEIGHT STORAGE CABINET WITH ADJUSTABLE SHELVES: PL1 LOCKING / 4" WIRE PULLS BACKSPASH
123000-MIL-11	FACULTY ROOM	PLASTIC LAMINATE WORK SURFACE: PL3 PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVES: PL1 PLASTIC LAMINATE FULL HEIGHT STORAGE WITH OPENINGS FOR STACKED MICROWAVES: PL1 LOCKING / 4" WIRE PULLS 4" BACKSPASH
123000-MIL-12	FACULTY ROOM MAIL SLOTS	PLASTIC LAMINATE WORK SURFACE AT DEPTHS INDICATED ON PLAN: PL3 PLASTIC LAMINATE BASE CABINETS WITH ADJUSTABLE SHELVES AT DEPTHS INDICATED ON PLAN: PL1 PLASTIC LAMINATE MAIL SLOTS DIRECTLY ON TOP OF COUNTER: PL1 LOCKING / 4" WIRE PULLS 4" BACKSPASH WHERE OCCURS
123000-MIL-13	BIOLOGY LAB OPEN CUBBIES	PLASTIC LAMINATE OPEN CUBBY STORAGE AT DEPTHS INDICATED ON PLAN: PL1 HEIGHT SHOULD BE FLUSH WITH WINDOW SILL. V.I.F. 4" BACKSPASH WHERE OCCURS
123000-MIL-14	BIOLOGY LAB AV CABINET	PLASTIC LAMINATE AV CABINET BASE: PL1 EPOXY RESIN WORK SURFACES AT HEIGHTS AND DEPTHS INDICATED ON PLAN: SS 36" HIGH

NOTE: VERIFY ALL DIMENSIONS IN FIELD BEFORE PRODUCTION.

FINISHES					
WT	Manufacturer	Product Name/ Number	Color/ Finish	Finish Sched - Size	Comments
WALLS					
PAINT					
P1	Sherwin Williams	SW7636 Origami White	Gloss Level 5	n/a	General Paint - Gyp. Board Walls
P2	Sherwin Williams	SW 7016 Mindful Gray	Gloss Level 5	n/a	Accent paint - Gyp. Board Walls
P3	Kwal Paint	CL3174D Abalon	Gloss Level 5	n/a	Exposed steel columns and bracing and HM frames
P4	Sherwin Williams	Pantone 2617. CMYK: 84:100:0:15	Gloss Level 1	n/a	Accent paint - Gyp. Board Walls
P5	Sherwin Williams	SW 7604 Smokey Blue	Gloss Level 1	n/a	Accent paint - Gyp. Board Walls
P6	Kwal Paint	SW 6966 Blueblood	Gloss Level 1	n/a	Accent paint - Gyp. Board Walls
TILE					
CT1	Daltile	Modern Dimensions	0190 Arctic White - Matte	4.25" x 8.5"	Restroom Wall Tile - Field
CT2	Daltile	Semi-Gloss	0190 Arctic White - Gloss	4"x4"	Janitor's Closet
GROUT					
CT	Mapei	Unsanded	38 Avalanche	n/a	
TACKABLE FABRIC WRAPPED PANELS					
T1	Filzfelt	Akustika 10 Wall	282 D'Blau - 3mm	Varies. See interior elevations.	Exposed edge
T2	Filzfelt	Akustika 10 Wall	540 Ozean - 3mm	Varies. See interior elevations.	Exposed edge
T3	Filzfelt	Akustika 10 Wall	725 Taubengrau - 3mm	Varies. See interior elevations.	Exposed edge
T4	Filzfelt	Akustika 10 Wall	269 Violet - 3mm	Varies. See interior elevations.	Exposed edge
VINYL WALL GRAPHIC					
VWG		Vinyl Graphic	Custom	Floor to ceiling	See interior elevations for locations and widths
FLOOR					
CARPET					
CP1	Mohawk Group	Lee's - On The Scene; Streetscapes	989 Metro	24" x 24"	General Carpet
CP2	Mohawk Group	Lee's - On The Scene; Streetscapes	949 Sharp	24" x 24"	General Carpet
CP3	Mohawk Group	Lee's - On The Scene; Hustle & Bustle	989 Metro	24" x 24"	General Carpet
CP4	Mohawk Group	Lee's - On The Scene; Hustle & Bustle	949 Sharp	24" x 24"	General Carpet
ENTRY MAT					
EM	Mohawk Group	Lee's - First Step II	983 Iron Ore	24" x 24"	Vestibule
TILE					
MT	Daltile	Fabrique	PX689 Noir Linen	2" x 2"	Restroom Floors
GROUT					
MT	Mapei	Unsanded	27 Silver	n/a	
LUXURY VINYL TILE					
LVT	Mannington Commercial / Amtico	Spacia Collection - Abstract	555A6120 Mirus Feather	7.25" x 48"	Installation direction as indicated on floor finish plan
SEALED CONCRETE					
SC					
BASE					
RUBBER BASE & ACCESSORIES					
RB1	Roppe	Vinyl Base	114 Lunar Dust	4"	
RB2	Roppe	Vinyl Base	100 Black	4"	
RESIL-1	Roppe	Vinyl stair nosing #206 double undercut.	Match RB1	6" wall base for riser. Match RB1	
TILE BASE					
CTB	Daltile	Modern Dimensions - Flat top cove	0190 Arctic White - Matte	4.25" x 8.5"	
CTB2	Daltile	Match CT2			
MILLWORK					
VERTICAL SURFACE					
PL1	Wilsonart		4879-38 Steel Mesh	n/a	
PL4	Wilsonart		4941K-18 Cosmic Strandz	n/a	
COUNTERTOPS					
PL2	Wilsonart		4942-38 Crisp Linen	n/a	
PL3	Wilsonart		4939L-18 Vapor Strandz	n/a	Pattern to run parallel with edge of countertop
SS		Epoxy Resin Countertop	TBD		
CEILING					
CEILING					
TYPE A	USG	Radar - SQ	White	24"x24"	DX/DXL Suspension System
PAINTED GYP	Sherwin Williams	Match P1	Gloss Level 1		
MISCELLANEOUS					
WALL PROTECTION					
CG	Corner Guards	InPro Corp - Surface Mount Stainless Steel	181124C-430; Type 304 - 18 ga.	48" x 1.5"	All exterior corners
ROLLER WINDOW SHADE					
ROLLER WINDOW SHADE					
--	Draper	Single Shade	Sunshade: Greenscreen Eco 500, 5% openness. Charcoal.		



**WSU DAVIS
CAMPUS D13
REMODEL**

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

**INTERIOR FINISHES
SCHEDULE**

Design No. U415
ULXIV.0415
Fire Resistance Ratings - ANS/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific concerning alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

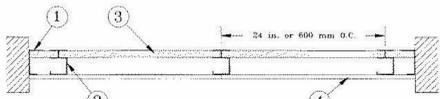
Fire Resistance Ratings - ANS/UL 263

Design No. U415

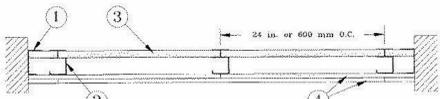
November 08, 2011

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr

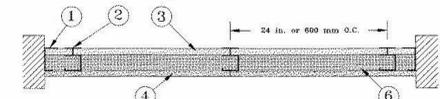
System A — 1 Hr.



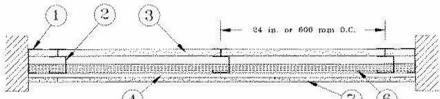
System B — 2 Hr.



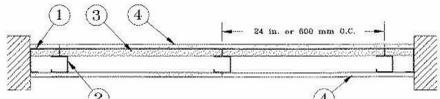
System C — 2 Hr.



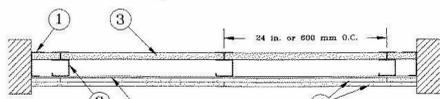
System D — 2 Hr.



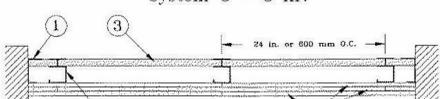
System E — 2 Hr.



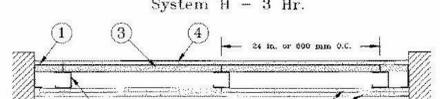
System F — 2 Hr.



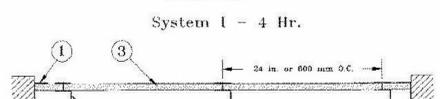
System G — 3 Hr.



System H — 3 Hr.



System I — 4 Hr.



- 1. Floor, Side and Ceiling Runners** — "J" shaped runner, min 2-1/2 in. deep (min 4 in. deep when System C is used), with unequal legs of 1 in. and 2 in., fabricated from min 24 MSG (min 20 MSG when Item 4A, 4B or 7 are used) galv steel. Runners positioned with short leg toward finished side of wall. Runners attached to structural supports with steel fasteners located not greater than 2 in. from ends and not greater than 24 in. OC. "E" shaped studs (Item 2A) may be used as side runners in place of "J" shaped runners.
- 2. Steel Studs** — "C"-H" shaped studs, min 2-1/2 in. deep (min 4 in. deep when System C is used), fabricated from min 25 MSG (min 20 MSG when Items 2D, 4A, 4B or 7 is used) galv steel. Cut to lengths 3/8 to 1/2 in. less than floor-to-ceiling height and spaced 24 in. or 600 mm OC.
- 2A. Steel Studs** — (Not Shown) — "E" shaped studs installed back to back in place of "C"-H" shaped studs (Item 2). "E" shaped studs secured together with steel screws spaced 12 in. OC. Fabricated from min 25 MSG (min 20 MSG when Item 2D, 4A, 4B or 7 is used) galv steel, min 2-1/2 in. deep (min 4 in. deep when System C is used), with one leg 1 in. long and two legs 3/4 in. long. Shorter legs 1 in. apart to engage gypsum liner panels. Cut to lengths 3/8 to 1/2 in. less than floor to ceiling heights.
- 2B. Furring Channels** — (Optional, not shown) — For use with single or double layer systems. Resilient furring channels fabricated from min 25MSG corrosion protected steel, installed horizontally, and spaced vertically a max 24 in. OC. Flange portion of channel attached to each intersecting "C"-H" or "E" stud on side of stud opposite the flange with 1/2 in. long Type S or S-12 pan-head steel screws. When furring channels are used, wallboard to be installed vertically only. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7).

3C. Furring Channels — For use with System I - "H" shaped, 25 MSG galv steel furring channels attached directly over the inner layers of wallboard to stud with 2 in. long Type S pan head steel screws. Screws alternate from top flange to bottom flange at each stud intersection. Furring channels spaced vertically max 24 in. OC.

3D. Steel Framing Members* — (Optional, not shown) — For use with single or double layer systems. Furring channels and Steel Framing Members as described below. Not to be used with Type FRX-G gypsum wallboard, Type RB-LBG (Item 4A), Type Nelo (Item 4B) or cementitious backer units (Item 7):

a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 3. Gypsum board installed vertically only and attached to furring channels as described in Item 3.

b. Steel Framing Members* — Used to attach furring channels (Item 2Ba) to studs (Item 2 or 2A). Clips spaced max. 24 in. OC, and secured to studs with No. 8 x 1-1/2 in. L-minimum length, self-drilling, S-12 steel screw through the center groove. Furring channels are friction fitted into clips.

PAC INTERNATIONAL INC — Type RSIC-1.

3. Gypsum Board* — Gypsum liner panels, nom 1 in. thick, 24 in. or 600 mm (for metric spacing) wide. Panels out 1 in. less in length than floor to ceiling height. Vertical edges inserted in "H" portion of "C"-H" studs or the gap between the two 3/4 in. legs of the "E" studs. Free edge of end panels attached to long leg of vertical "J" runners with 1-5/8 in. long Type S steel screws spaced not greater than 12 in. OC. When wall height exceeds liner panel length, liner panel may be butted to extend to the full height of the wall. Horizontal joints need not be backed by steel framing. In System I, butt joints in liner panels are staggered min 36 in. Butt joints backed with 6 in. by 22 in. strips of 3/4 in. thick gypsum wallboard (Item 4). Wallboard strips centered over butt joints and secured to liner panels with six 1-1/2 in. long Type G steel screws, three screws along the 22 in. dimension at the top and bottom of the strips.

CGC INC — Type SLX

UNITED STATES GYPSUM CO — Type SLX

USG MEXICO S A DE C V — Type SLX

4. Gypsum Board* —

System A — 1 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. when installed vertically or 8 in OC when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX, USGX

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

System B — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 3/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in two layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Outer or face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 12 in. OC when installed vertically and staggered 12 in. from base layer screws or 8 in. OC when installed horizontally and staggered 6 in. from base layer screws. Horizontal joints between inner and outer layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR, or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System C — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, secured with 1-1/4 in. long Type S steel screws spaced 8 in. OC along vertical edges and 12 in. OC in the field when installed vertically or 8 in. OC along the vertical edges and in the field when installed horizontally. Horizontal joints need not be backed by steel framing. Screws along side joints offset 1 in. Requires min 4 in. deep framing per Items 1, 2 and 3. Requires min 3 in. thick mineral wool batts per Item 6.

CGC INC — Types IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3, or ULTRACODE

USG MEXICO S A DE C V — Types IP-X3, or ULTRACODE

System D — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached directly to studs with 1 in. long Type S steel screws spaced 24 in. when installed vertically or 16 in. OC when installed horizontally. Horizontal joints need not be backed by steel framing. Requires face layer of 1/2 or 5/8 in. thick cementitious backer units per Item 7 and min 1-1/2 in. thick mineral wool batts per Item 6.

CGC INC — Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

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

System E — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, attached to studs with 1 in. long Type S steel screws spaced 12 in. OC when installed vertically or 8 in. when installed horizontally. Horizontal joints need not be backed by steel framing.

CGC INC — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Types C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG MEXICO S A DE C V — 1/2 in. Types C, IP-X2, IPC-AR; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System F — 2 Hr

Gypsum panels, with beveled, square or tapered edges, nom 1/2 in. or 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically in two layers. Inner or base layer attached to resilient furring channels (Item 2B) with 1 in. long Type S steel screws spaced 24 in. Outer or face layer attached to resilient furring channels (Item 2B) with 1-5/8 in. long Type S steel screws spaced 12 in. OC and staggered 12 in. from base layer screws. Joints between inner and outer layers staggered 24 in.

CGC INC — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

UNITED STATES GYPSUM CO — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, FRX-G, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, USGX, WRC, WRX

USG MEXICO S A DE C V — 1/2 in. Type C, IP-X2, IPC-AR or WRC; 5/8 in. Types AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, ULX, WRC, WRX

System G — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally in three layers. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Middle layer attached to studs with 1-5/8 in. long Type S steel screws spaced 24 in. when installed vertically or 12 in. OC when installed horizontally. Outer or face layer attached to studs with 2-1/4 in. long Type S steel screws spaced 12 in. when installed vertically or 12 in. when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System H — 3 Hr

Gypsum panels, with beveled, square or tapered edges, nom 5/8 in. thick, 48 in. or 1200 mm wide, applied vertically or horizontally, two layers over the flange of the "C" section of the studs, one layer over the flange of the "H" section of the studs. Inner or base layer attached to studs with 1 in. long Type S steel screws spaced 24 in. OC when installed vertically or 16 in. OC when installed horizontally. Face layer attached to studs with 1-5/8 in. long Type S steel screws spaced 16 in. when installed vertically or 12 in. OC when installed horizontally. Screws offset 6 in. from layer below. Horizontal joints on adjacent layers staggered a min of 12 in. Horizontal joints need not be backed by steel framing. Vertical joints centered over studs and staggered 24 in. on adjacent layers.

CGC INC — Types C, IP-X2, IPC-AR, WRC

UNITED STATES GYPSUM CO — Types C, IP-X2, IPC-AR, WRC

USG MEXICO S A DE C V — Types C, IP-X2, IPC-AR, WRC

System I - 4 Hr

Gypsum panels, with beveled, square or tapered edges, nom 3/4 in. thick, 4 ft wide (or 1200 mm for metric spacing) wallboard with square or tapered edges. Total of four layers to be used. First and second (liner) layers applied vertically over the steel studs. Horizontal joints need not be backed by steel framing. When applied vertically, joints centered over studs and staggered min 24 in., otherwise all joints staggered min 12 in. First layer secured to studs with 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 24 in. OC. Second layer secured to studs with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Third layer applied vertically over the furring channels (Item 2C) with a 1-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. Fourth layer applied vertically or horizontally with 2-1/4 in. long Type S self-drilling, self-tapping bugle-head steel screws spaced 12 in. OC. When applied vertically, joints to be staggered min 24 in. from third layer, otherwise all joints staggered min 12 in.

CGC INC — Types IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3, or ULTRACODE

USG MEXICO S A DE C V — Types IP-X3, or ULTRACODE

4A. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) - Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

RAY-BAR ENGINEERING CORP — Type RB-LBG

4B. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) - Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over studs and staggered min 1 stud cavity on opposite sides of studs. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9) or Lead Discs or Tabs (see Item 10).

NEW ENGLAND LEAD BURNING CO INC, DBA NELCO — Nelo

CGC INC — Nelo

4C. Gypsum Board* — (As an alternate to Item 4 Systems A, B, C, D, E, G, H, and I when used as the base layer, for direct attachment only) - Nom 5/8 in. or 3/4 in. thick lead backed gypsum panels with beveled, square or tapered edges, applied vertically. Vertical joints centered over 20 MSG steel studs and staggered min 1 stud cavity on opposite sides of studs. See Items 1, 2, 2A, 2B and 2D. Wallboard secured to studs with 1-1/4 in. long Type S-12 steel screws spaced 8 in. OC at perimeter and 12 in. OC in the field. For Joint Compound see Item 5. To be used with Lead Batten Strips (see Item 9A) or Lead Discs (see Item 10A).

MAYCO INDUSTRIES INC — Type X-Ray Shielded Gypsum

5. Joint Tape and Compound — (Not Shown)

Systems A, B, C, E, F, G, H, I

Joints on outer layers of gypsum boards (Item 4 and 4A) covered with paper tape and joint compound. Paper tape and joint compound may be omitted when gypsum boards are supplied with square edges. Exposed screw heads covered with joint compound.

6. Batts and Blankets* —

Systems A, B, E, F, G, H, I

(Optional) — Mineral wool or glass fiber batts partially or completely filling stud cavity. Any mineral wool or glass fiber batt mineral bearing the UL Classification Marking as to Fire Resistance.

Systems C & D

Min 3 in. (System C) and min 1-1/2 in. (System D) thick mineral wool batts, friction fitted between the studs and floor and ceiling runners.

THERMAFIBER INC — Type SAFB

7. Cementitious Backer Units* — (System D) — Nom 1/2 or 5/8 in. thick panels, square edge, attached to studs over gypsum wallboard with 1-5/8 in. long Type S-12, corrosion resistant steel screws spaced 8 in. OC and staggered 8 in. from gypsum wall board screws. Joints covered with glass fiber mesh tape. Vertical joints staggered one stud cavity from gypsum wallboard joints. Horizontal joints staggered a min of 12 in. from the gypsum wallboard joints.

UNITED STATES GYPSUM CO — DUROCK Exterior Cement Board or DUROCK Brand Cement Board.

8. Laminating Adhesive* — (Optional, Not Shown) — Used to bond outer layer of Cementitious Backer Units (Item 7) to inner layers of Gypsum Board (Item 4) in System D. ANSI A136.1 in System D. Organic adhesive applied with 1/4 in. square notched trowel. See Adhesives (DYWID) in the Fire Resistance Directory or Adhesives (BLLZ) in the Building Materials Directory for names of Classified companies.

CGC INC — Types IP-X3, or ULTRACODE

UNITED STATES GYPSUM CO — Types IP-X3, or ULTRACODE

USG MEXICO S A DE C V — Types IP-X3, or ULTRACODE

9. Lead Batten Strips — (Not Shown, For Use With Item 4A) — Lead batten strips, min 1-1/2 in. wide, max 10 ft long with a max thickness of 0.125 in. Strips placed on the interior face of studs and attached from the exterior face of the stud with two 1 in. long Type S-12 pan head steel screws, one at the top of the strip and one at the bottom of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4A) and optional at remaining stud locations. Resured behind vertical joints.

10. Lead Discs or Tabs — (Not Shown, For Use With Item 4A) — Used in lieu of or in addition to the lead batten strips (Item 9) or optional at other locations - Max 3/4 in. diam by max 0.125 in. thick lead discs compression fitted or adhered over steel screw heads or max 1/2 in. by 1-1/4 in. by max 0.125 in. thick lead tabs placed on gypsum boards (Item 4A) underneath screw locations prior to the installation of the screws. Lead discs or tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C".

10A. Lead Discs — (Not Shown, for use with Item 4C) Max 5/16 in. diam by max 0.0625 in. thick lead disc compression fitted or adhered over steel screw heads. Lead discs to have a purity of 99.9% meeting the Federal Specification QQ-L-2011, Grade "C".

11. Lead Batten Strips — (Not Shown, For Use With Item 4B) — Lead batten strips, 2 in. wide, max 10 ft long with a max thickness of 0.142 in. Strips placed on the face of studs and attached to the stud with two min. 1 in. long min. Type S-8 pan head steel screws, one at the top of the strip and one at the bottom of the strip or with one min. 1 in. long min. Type S-8 pan head steel screw at the top of the strip. Lead batten strips to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead batten strips required behind vertical joints of lead backed gypsum wallboard (Item 4B) and optional at remaining stud locations.

12. Lead Tabs — (Not Shown, For Use With Item 4B) 2 in. wide, 5 in. long with a max thickness of 0.142 in. Tabs friction fit around front face of stud, the stud folded back flange, and the back face of the stud. Tabs required at each location where a screw (that secures the gypsum boards, Item 4B) will penetrate the steel stud. Lead tabs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Lead tabs may be held in place with standard adhesive tape if necessary.

*Bearing the UL Classification Mark

Last Updated on 2011-11-08

Design No. U906

ULXIV.0906
Fire Resistance Ratings - ANS/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Listed or Classified products, equipment, system, devices, and materials.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specific concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered as Classified, Listed, or Recognized.

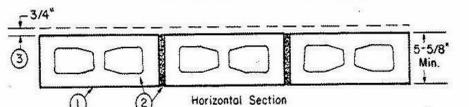
Fire Resistance Ratings - ANS/UL 263

September 30, 2010

Bearing Wall Rating — 2 Hr.

Nonbearing Wall Rating — 2 Hr.

Load Restricted for Canadian Applications — See Guide ULXIV7



1. Concrete Blocks* — Nominal 6 by 8 by 16 in. hollow or solid. Various designs. Classification (2 hr).

See **Concrete Blocks** category for list of eligible manufacturers.

ANCHOR CONCRETE PRODUCTS INC

GAGE & SON CONCRETE BLOCK INC

GLENWOOD MASONRY PRODUCTS

Allowable compressive stress of 57% of max allowable compressive stress in accordance with the empirical design method.

OLDCASTLE APG SOUTH INC, DBA ADAMS

PRODUCTS

WESTBROOK CONCRETE BLOCK CO INC

Allowable compressive stress of 75.6% of max

REVISIONS:

7. Statement of Special Inspections

- The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).
- For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task.

Structural Steel per IBC Section 1705.2.1, 1705.11.1 & 1705.12.2

Item	Frequency	Detailed Instructions
<i>Prior to Welding (Table N5.4-1, AISC 360-10):</i>		
Verify welding procedures (WPS) and consumable certificates	Continuous	
Material identification	Periodic	Verify type and grade of material.
Welder identification	Periodic	A system shall be maintained by which a welder who has welded a joint or member can be identified.
Fit-up groove welds	Periodic	Verify joint preparation, dimensions, cleanliness, lapping, and backing.
Access holes	Periodic	Verify configuration and finish.
Fit-up of fillet welds	Periodic	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.
<i>During Welding (Table N5.4-2, AISC 360-10):</i>		
Use of qualified welders	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables	Periodic	Verify packaging and exposure control.
Cracked tack welds	Periodic	Verify that welding does not occur over cracked tack welds.
Environmental conditions	Periodic	Verify wind speed is within limits as well as precipitation and temperature.
WPS followed	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques	Periodic	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
<i>After Welding (Table N5.4-3, AISC 360-10):</i>		
Welds cleaned	Periodic	Verify that welds have been properly cleaned.
Size, length, and location of welds	Continuous	
Welds meet visual acceptance criteria	Continuous	
Arc strikes	Continuous	
k-area	Continuous	
Backing & weld tabs removed	Continuous	
Repair activities	Continuous	
Document acceptance or rejection of welded joint/member	Continuous	
<i>Nondestructive Testing (Section N5.5, AISC 360-10):</i>		
CJP welds (Risk Cat. III or IV)	Continuous	A reduction in the rate of ultrasonic testing is allowed per Section N5.5e.
Welded joints subject to fatigue	Continuous	
<i>Prior to Bolting (Table N5.6-1, AISC 360-10):</i>		
Certifications of fasteners	Continuous	
Fasteners marked	Periodic	Verify that fasteners have been marked in accordance with ASTM requirements.
Proper fasteners for joint	Periodic	Verify grade, type, and bolt length if threads are excluded from the shear plane.
Proper bolting procedure	Periodic	Verify proper procedure is used for the joint detail.
Connecting elements	Periodic	Verify appropriate faying surface condition and hole preparation, if specified, meet requirements.
<i>During Bolting (Table N5.6-2, AISC 360-10):</i>		
Fastener assemblies	Periodic	Verify that fastener assemblies are of suitable condition, paced in all holes, and washers are positioned as required.
Snug-tight prior to pretensioning	Periodic	Verify that joints are brought to snug-tight condition prior to pretensioning operation.
Fastener component	Periodic	Verify that fastener component is not turned by wrench prevented from rotating.
Pretensioned fasteners	Periodic	Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.
<i>After Bolting (Table N5.6-3, AISC 360-10):</i>		
Document acceptance or rejection of bolted connections	Continuous	
<i>Other Steel Inspections (Section N5.7, AISC 360-10; Table J8-1, J10-1, AISC 341-10):</i>		
Structural steel details	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel	Periodic	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.
Protected zones	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table J8-1 of AISC 341-10).
<i>Steel Elements of Composite Construction (Table N6.1, AISC 360-10; Tables J9-1 thru J9-3, AISC 341-11):</i>		
Document acceptance or rejection of steel elements	Continuous	
Reinforcing steel	Periodic	Verify appropriate reinforcement size, spacing, and orientation; that it has not been re-bent in field; that it is correctly tied and supported; and that required steel clearances have been provided.
Composite member size	Periodic	Verify that composite member is the required size.

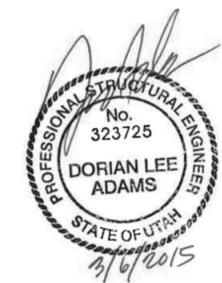
Concrete Construction per IBC Sections 1705.3 & 1705.12.1

Item	Frequency	Detailed Instructions
Reinforcing steel	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, straps and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	Periodic	Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Cast-in bolts & embeds	Continuous	

Item	Frequency	Detailed Instructions
Post-installed anchors or dowels		All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318; Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39. Acceptance criteria for strength tests shall be per ACI 318 Section 5.6.3.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd ³ of concrete, nor less than once for each 5000 ft ² of surface area for slabs or walls. At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete & shotcrete placement	Continuous	
Curing temperature and techniques	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318, 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
<i>Welding of Reinforcing Steel (IBC Table 1705.2.2):</i>		
Verification of weldability	Periodic	Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Shear reinforcement	Continuous	
Other reinforcing steel	Periodic	Visually inspect all welds in accordance with AWS D1.4.

Soils per IBC Section 1705.6

Item	Frequency	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	Periodic	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	Periodic	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft ² of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	Continuous	



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LAKE CITY, UT 84144

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GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

GENERAL STRUCTURAL NOTES

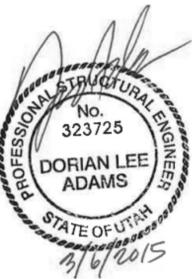
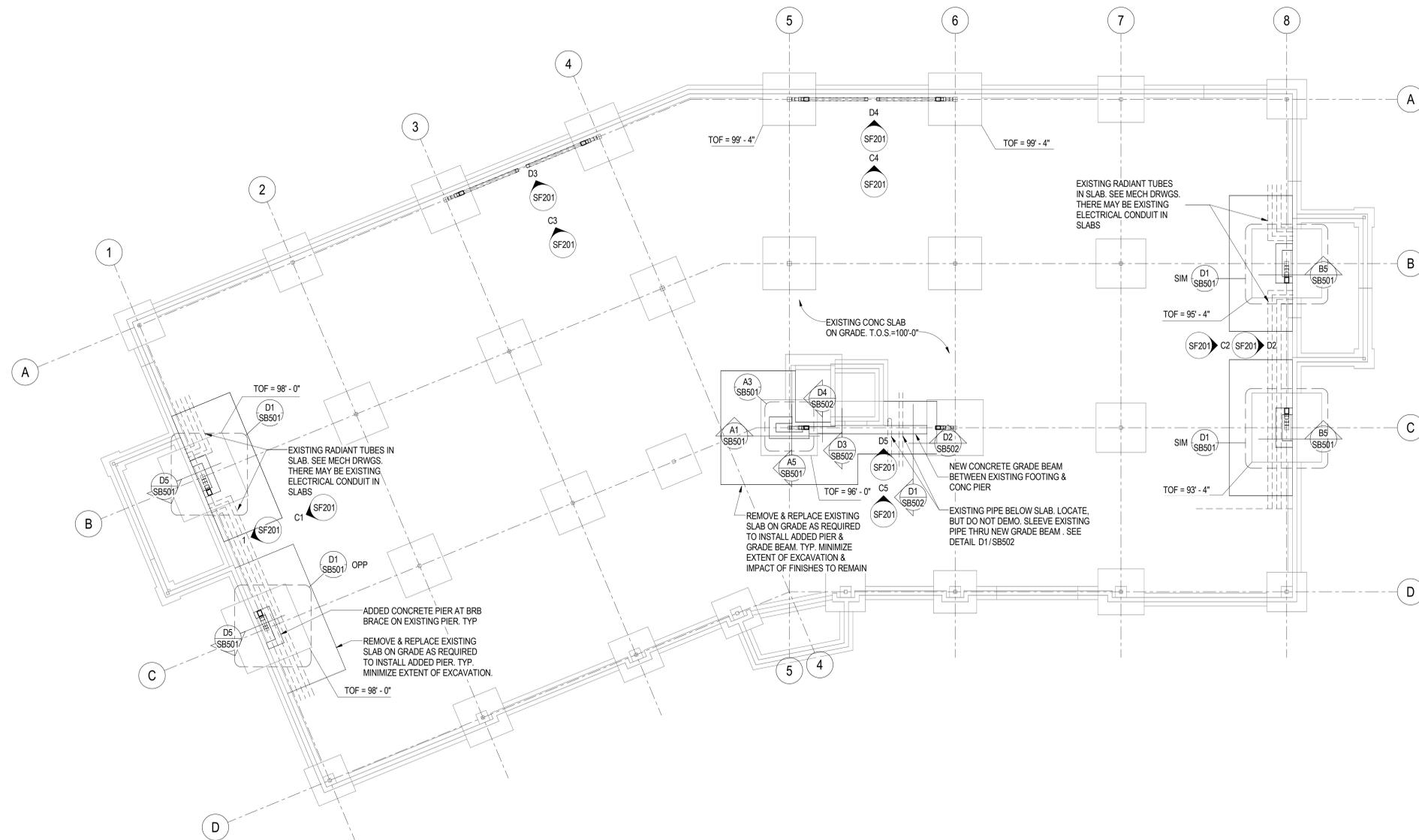
REVISIONS:

EXISTING ITEMS PLAN LEGEND

	EXISTING FOOTING - CONTINUOUS
	EXISTING FOOTING - THICKENED SLAB
	EXISTING FOOTING - SQUARE, RECTANGULAR, OR MAT
	EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL
	EXISTING OPENING THROUGH CONCRETE WALL
	EXISTING CONCRETE PIER IN CONCRETE WALL, PIER RECESSED 8\"/>
	EXISTING CONCRETE COLUMN
	EXISTING OPENING

FOOTING & FOUNDATION PLAN LEGEND

	FOOTING STEP
	FOOTING - CONTINUOUS
	FOOTING - THICKENED SLAB
	FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
	CONCRETE WALL, CONCRETE FOUNDATION WALL, OR CONCRETE RETAINING WALL
	CONCRETE FOUNDATION WALL - RECESSED
	CONCRETE PIER IN CONCRETE WALL, TOP OF PIER RECESSED 8\"/>
	CONCRETE COLUMN OR PIER
	CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
	STEEL COLUMN - TUBE
	STEEL BRACED FRAME - ABOVE
	CHANGE IN ELEVATION
	SLAB BLOCK-OUT AT COLUMN
	SLAB CONTROL/CONSTRUCTION JOINT
	SPECIAL SLAB AREA
	RECESSED/DEPRESSED SLAB
	OPENING



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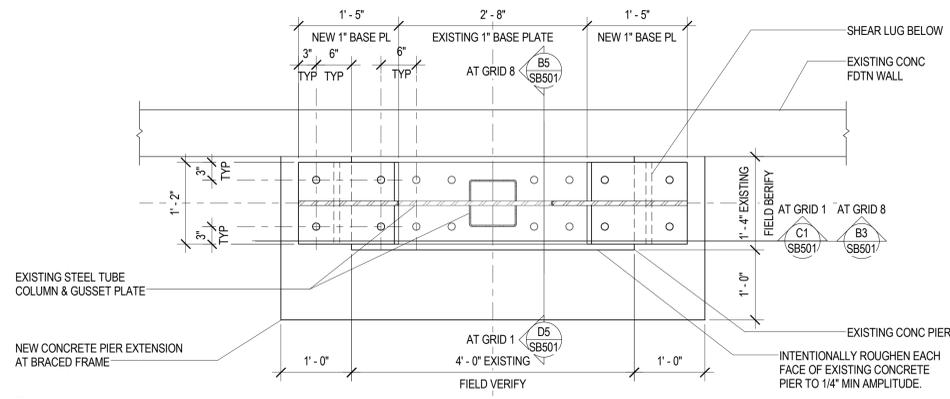
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

FOOTING & FOUNDATION PLAN

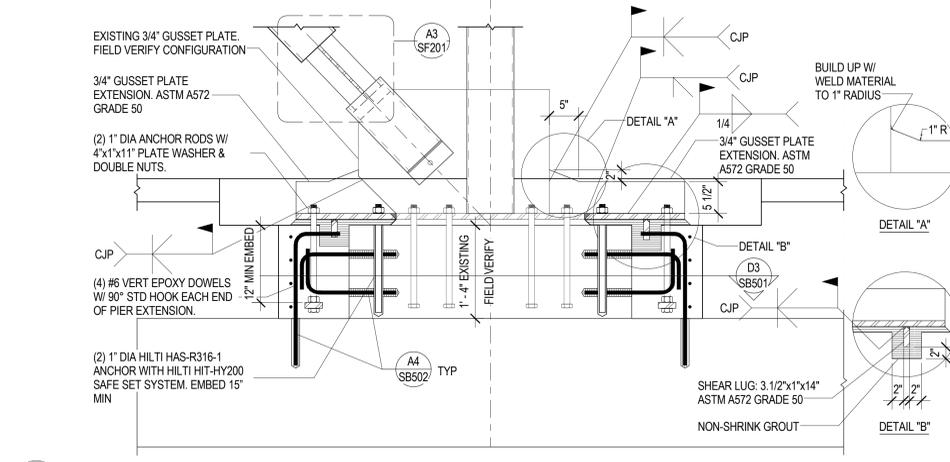
1 FOOTING & FOUNDATION PLAN
SB101 SCALE: 1/8" = 1'-0"

REVISIONS

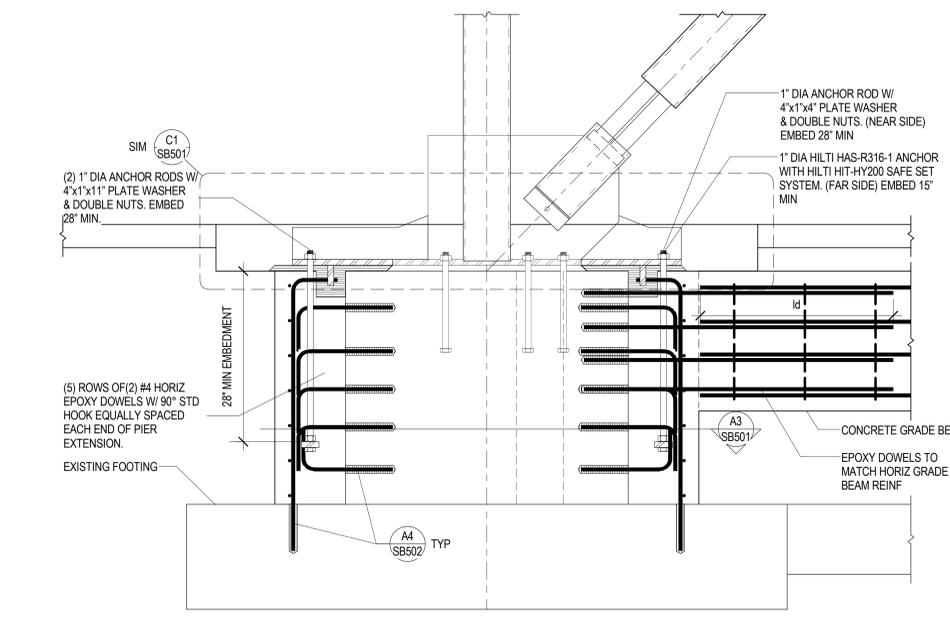
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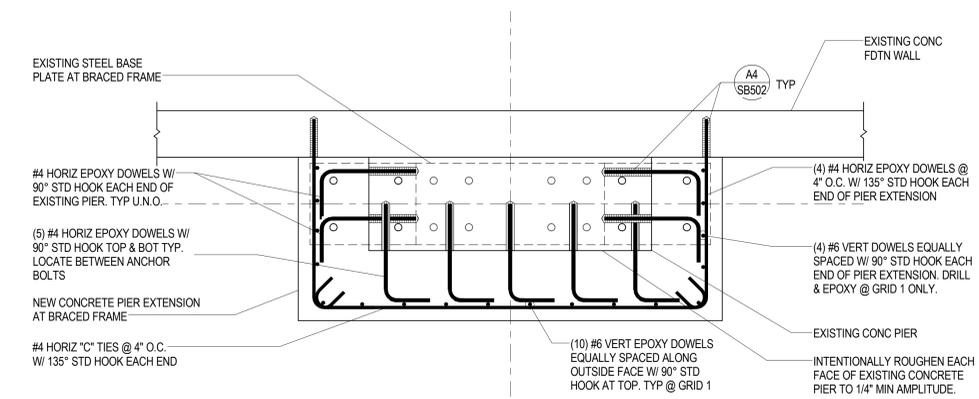
D1 STEEL BASE PLATE EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE - PLAN VIEW
SB501 NO SCALE



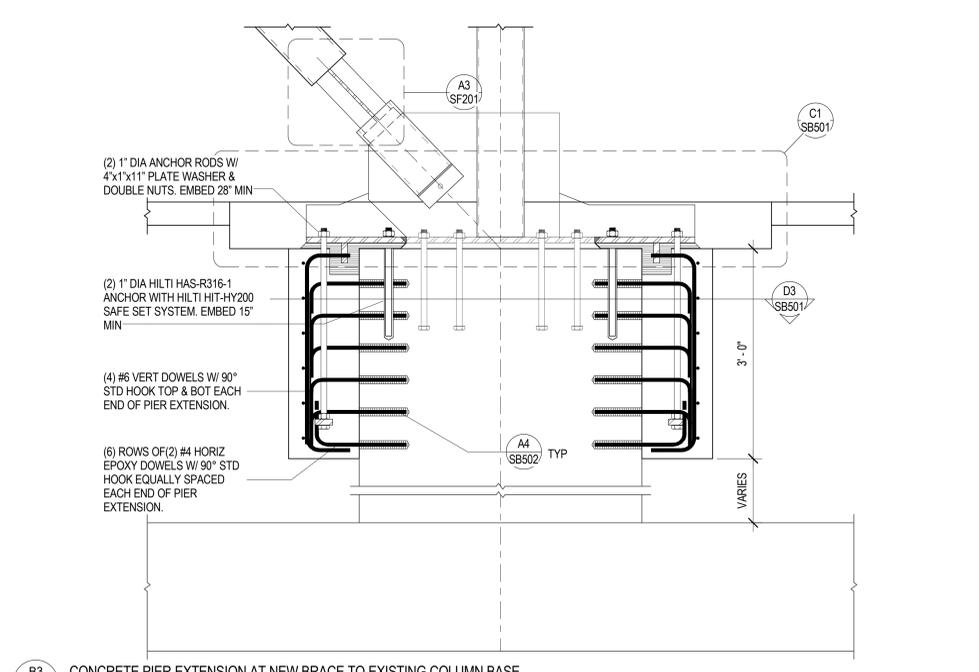
C1 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



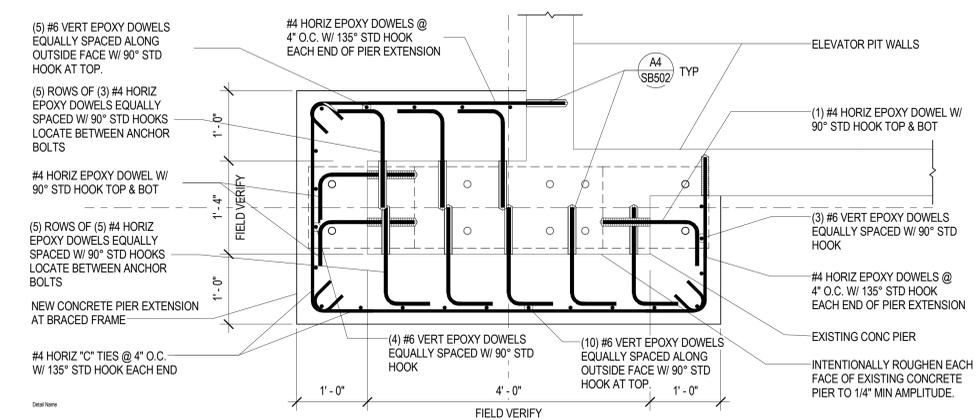
A1 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



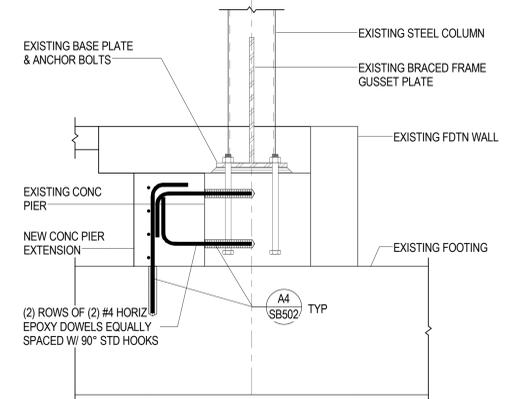
D3 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE - PLAN VIEW
SB501 NO SCALE



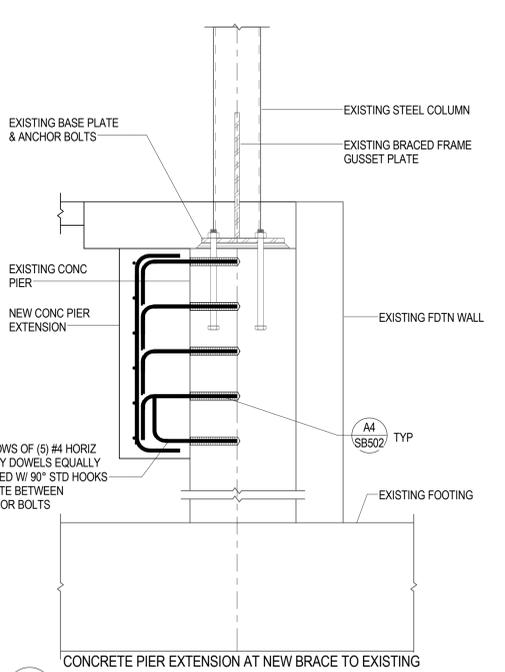
B3 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



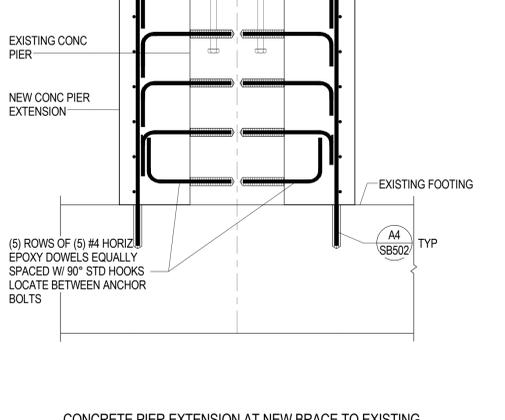
A3 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING STEEL COLUMN - PLAN VIEW
SB501 NO SCALE



D5 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



B5 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



A5 CONCRETE PIER EXTENSION AT NEW BRACE TO EXISTING COLUMN BASE
SB501 NO SCALE



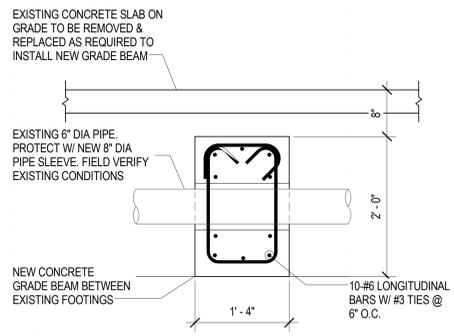
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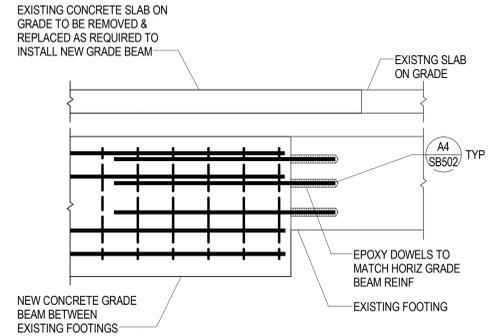
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OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

**FOOTING & FOUNDATION
DETAILS**

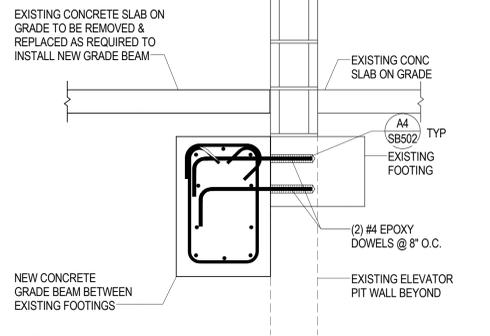
REVISIONS:



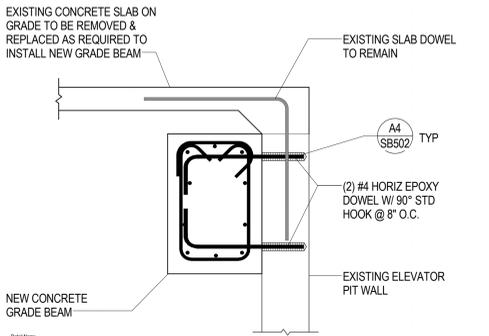
D1 NEW CONCRETE GRADE BEAM
SB502 NO SCALE



D2 NEW CONCRETE GRADE BEAM TO EXISTING FOOTING
SB502 NO SCALE



D3 NEW CONCRETE GRADE BEAM TO EXISTING FOOTING AT MASONRY WALL
SB502 NO SCALE



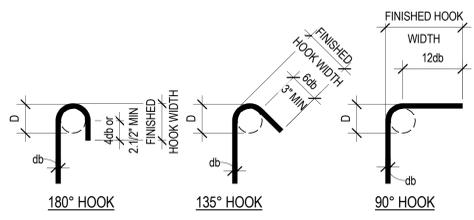
D4 NEW CONCRETE GRADE BEAM TO EXISTING ELEVATOR PIT
SB502 NO SCALE

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPlice LENGTH SCHEDULE

BAR SIZE	f _c = 3000 PSI				f _c = 4000 PSI				f _c = 4500 PSI				f _c = 5000 PSI				f _c = 6000 PSI				f _c = ALL			
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt
#3	17"	22"	22"	28"	15"	19"	19"	25"																
#4	22"	29"	29"	38"	19"	25"	25"	33"																
#5	28"	36"	36"	47"	24"	31"	31"	41"																
#6	33"	43"	43"	56"	29"	37"	37"	49"																
#7	48"	63"	63"	81"	42"	54"	54"	71"																

NOTES:
1. DEFINITIONS:
Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
Lsb: TENSION LAP SPlice LENGTH FOR OTHER THAN TOP BARS (CLASS B)
Lsbt: TENSION LAP SPlice LENGTH OF TOP BARS
Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
Lsc: TIED COLUMN LAP SPlice IN COMPRESSION
db: NOMINAL BAR DIAMETER (INCHES)
TOP BARS: HORIZONTAL REINFORCEMENT WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW
2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.
3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.
4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.
5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
c. INDIVIDUAL BAR SPlices WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPliced.
6. SCHEDULE LENGTHS ARE FOR f_y=60ksi REINFORCING. MULTIPLY LENGTHS BY 1.25 FOR f_y=75ksi REINFORCING.
7. LAP SPlices ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

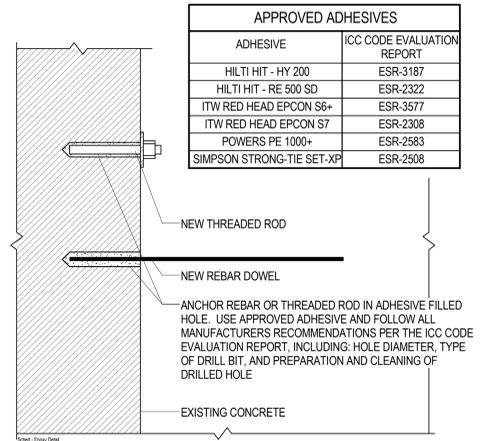
A1 CONCRETE REINFORCING BAR LAP SPlice SCHEDULE
SB502 NO SCALE



END HOOK SCHEDULE

BAR SIZE	D	FINISHED HOOK WIDTH		
		180° HOOK	135° HOOK	90° HOOK
#3	2.1/4"	3"	3"	6"
#4	3"	4"	3"	8"
#5	3.1/4"	5"	3.3/4"	10"
#6	4.1/2"	6"	4.1/2"	12"
#7	5.1/4"	7"	5.1/4"	14"

A3 TYPICAL STANDARD HOOKS AND EMBEDMENT SCHEDULE
SB502 NO SCALE



A4 ADHESIVE ANCHORING TO CONCRETE SCHEDULE
SB502 NO SCALE

ADHESIVE ANCHORING TO CONCRETE SCHEDULE

DOWEL SIZE	REINFORCING BAR		THREADED ROD	
	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE (DIA)	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE (DIA)
#3	4"	3/8"	4 1/2"	3/8"
#4	6"	1/2"	6"	1/2"
#5	9"	5/8"	7 1/2"	5/8"
#6	10"	3/4"	9"	3/4"
#7	12"	7/8"	10 1/2"	7/8"
#8	13"	1"	12"	1"
#9	14"	1 1/4"	15"	1 1/4"
#10	18"			
#11	18"			

NOTES:
1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE ENGINEER.
4. USE PROCEDURES AND PRODUCTS RECOMMENDED BY ADHESIVE MANUFACTURER FOR OVERHEAD INSTALLATION.
5. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL ADHESIVE ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.



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GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

**FOOTING & FOUNDATION
DETAILS**

REVISIONS:

EXISTING ITEMS PLAN LEGEND

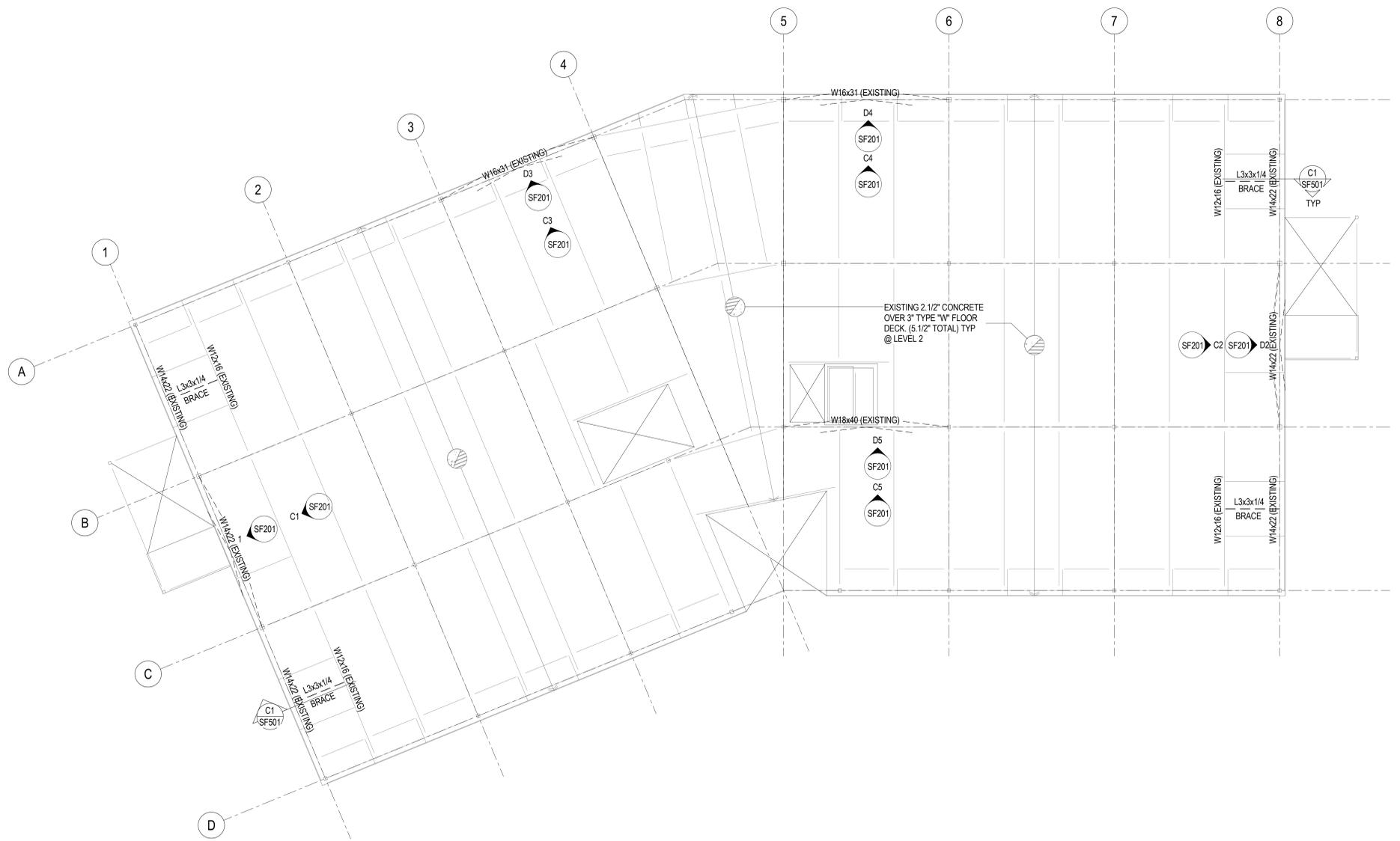
- EXISTING STEEL COLUMN - TUBE
- ≡≡≡ EXISTING STEEL BRACED FRAME
- EXISTING STEEL BEAM OR GIRDER
- EXISTING STEEL JOIST OR PURLIN
- ≡≡≡ EXISTING CROSS BRIDGING
- EXISTING HORIZONTAL BRIDGING
- EXISTING TO BE REMOVED
- ⊗ EXISTING OPENING

FLOOR FRAMING PLAN LEGEND

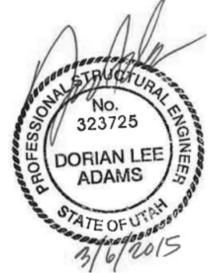
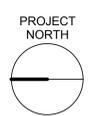
- STEEL COLUMN - TUBE
- ≡≡≡ STEEL BRACED FRAME
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- ▨ SPECIAL DECK AREA
- ⊗ RECESSED/DEPRESSED SLAB ON METAL DECK
- ⊗ OPENING

FLOOR FRAMING PLAN NOTES

1. FOR NEW OPENINGS IN EXISTING FLOOR SLAB, SEE DETAIL B3/SF501.



1 LEVEL 2 FLOOR FRAMING PLAN
SCALE: 1/8" = 1'-0"



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LEVEL 2 FLOOR FRAMING PLAN

REVISIONS:

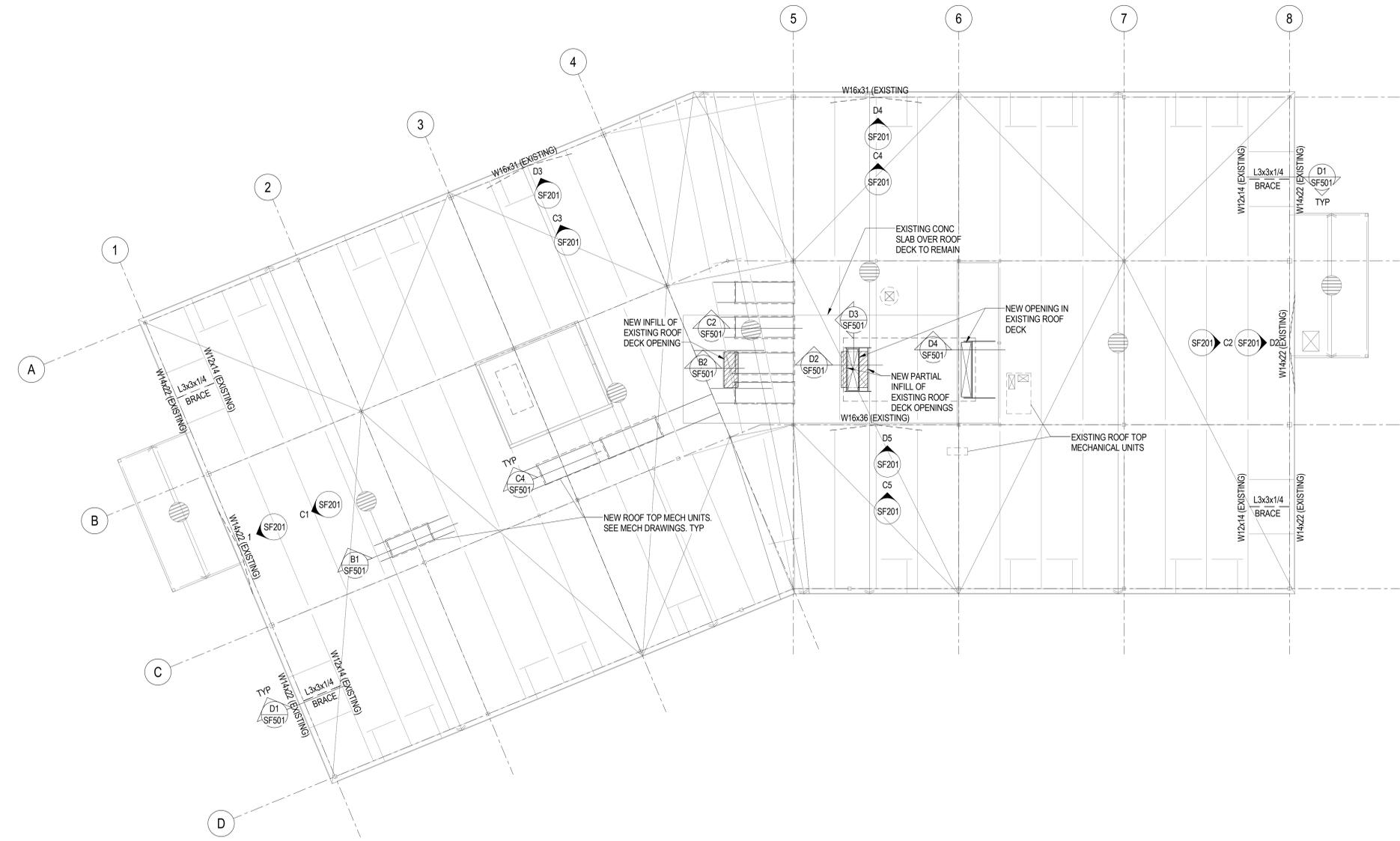
EXISTING ITEMS PLAN LEGEND

LEGEND

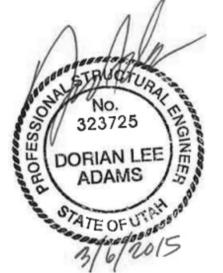
- EXISTING STEEL COLUMN - TUBE
- ≡≡≡ EXISTING STEEL BRACED FRAME
- EXISTING STEEL BEAM OR GIRDER
- EXISTING STEEL JOIST OR PURLIN
- ≡≡≡ EXISTING CROSS BRIDGING
- EXISTING HORIZONTAL BRIDGING
- EXISTING TO BE REMOVED
- ⊗ EXISTING OPENING

ROOF FRAMING PLAN LEGEND

- STEEL COLUMN - TUBE
- ≡≡≡ STEEL BRACED FRAME
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- ←--- STEEL ANGLE BRACE / KICKER. SEE ___ FOR ROOF EDGE KICKER. SEE ___ FOR FRAME BRACE
- ≡≡≡ CROSS BRIDGING
- HORIZONTAL BRIDGING
- ▨ SPECIAL DECK AREA
- ⊗ RECESSED/DEPRESSED SLAB ON METAL DECK
- ⊗ OPENING



1 ROOF FRAMING PLAN
SF103 SCALE: 1/8" = 1'-0"



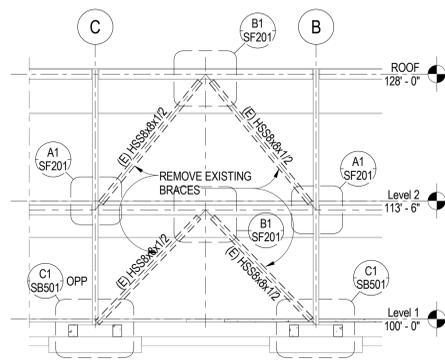
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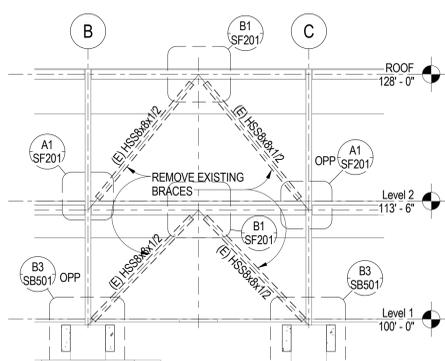
410 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84144
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

ROOF FRAMING PLAN

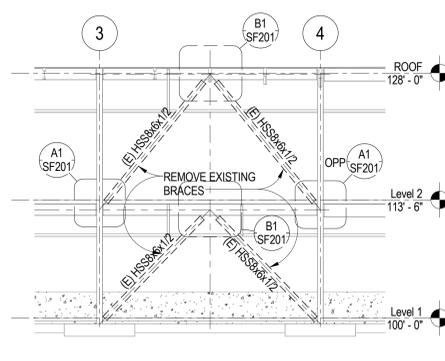
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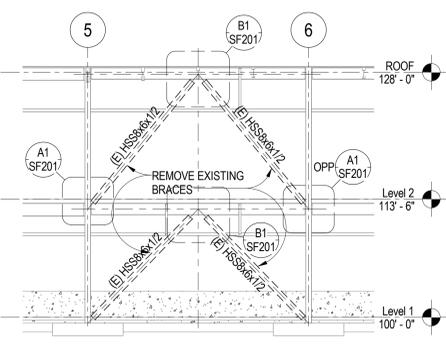
1 EXISTING BRACED FRAME ELEVATION - GRID 1
SF201 NO SCALE



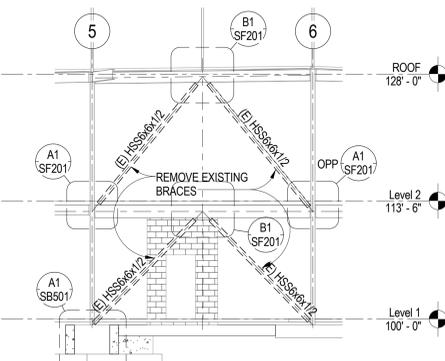
D2 EXISTING BRACED FRAME ELEVATION - GRID 8
SF201 NO SCALE



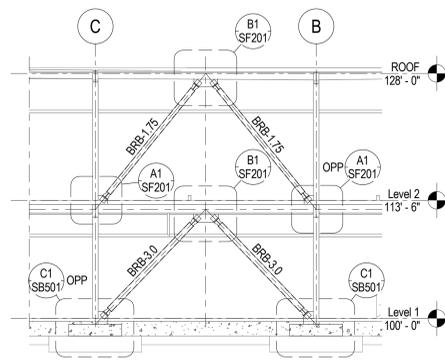
D3 EXISTING BRACED FRAME ELEVATION - GRID A, 3 TO 4
SF201 NO SCALE



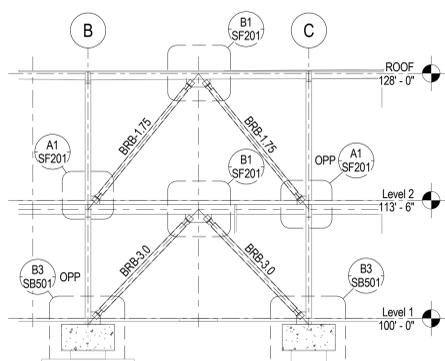
D4 EXISTING BRACED FRAME ELEVATION - GRID A, 5 TO 6
SF201 NO SCALE



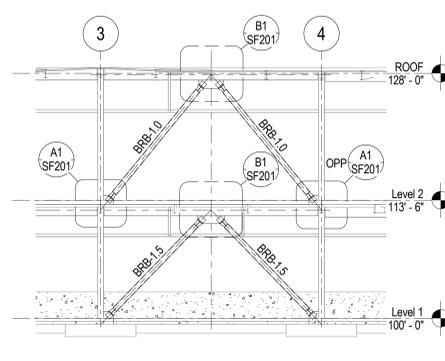
D5 EXISTING BRACED FRAME ELEVATION - GRID C
SF201 NO SCALE



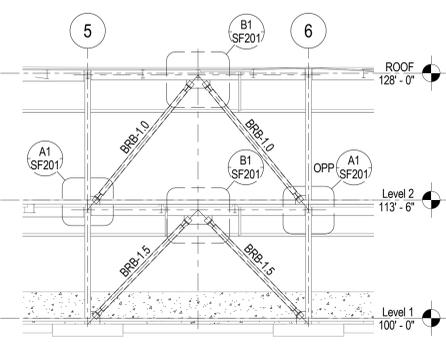
C1 NEW BRACED FRAME ELEVATION - GRID 1
SF201 NO SCALE



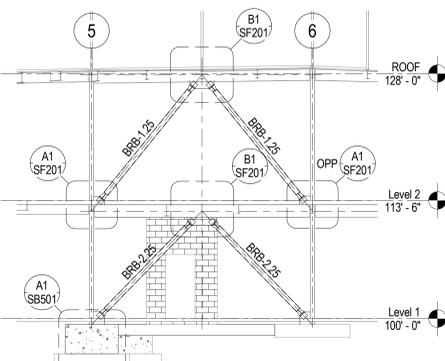
C2 NEW BRACED FRAME ELEVATION - GRID 8
SF201 NO SCALE



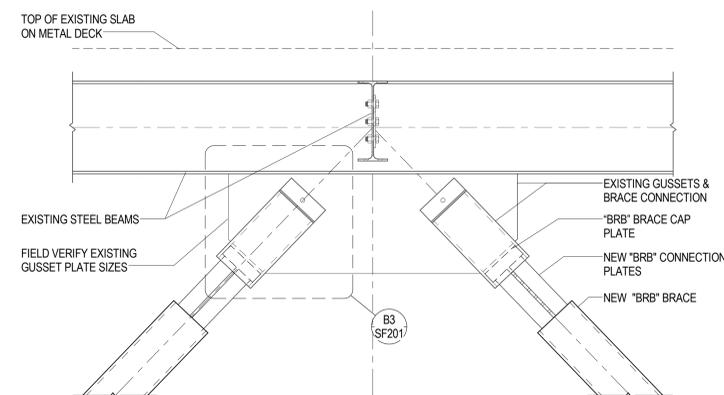
C3 NEW BRACED FRAME ELEVATION - GRID A, 3 TO 4
SF201 NO SCALE



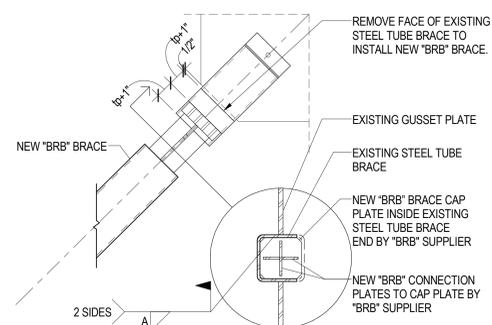
C4 NEW BRACED FRAME ELEVATION - GRID A, 5 TO 6
SF201 NO SCALE



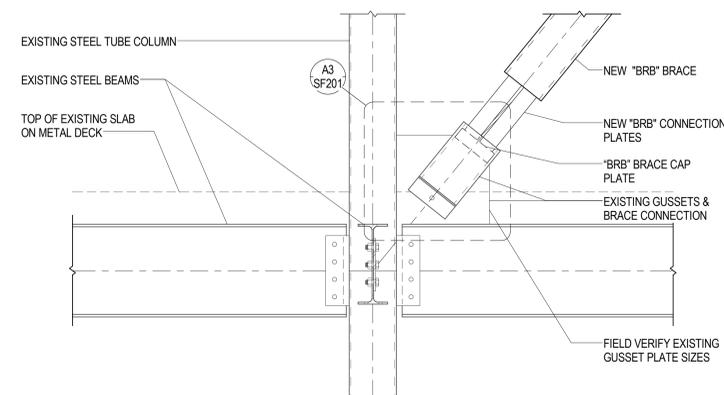
C5 NEW BRACED FRAME ELEVATION - GRID C
SF201 NO SCALE



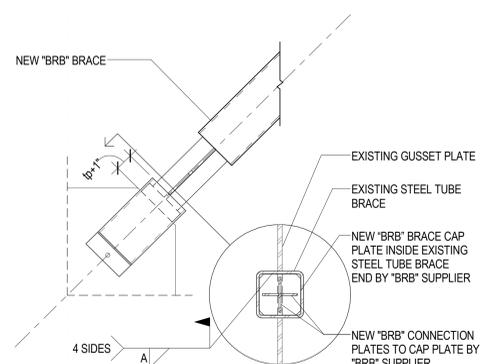
B1 NEW "BRB" BRACE CONNECTION TO EXISTING BRACE CONNECTION END & CAP PLATE
SF201 NO SCALE



B3 NEW "BRB" BRACE CONNECTION TO EXISTING BRACE END & CAP PLATE - TOP CONNECTION
SF201 NO SCALE



A1 NEW "BRB" BRACE CONNECTION TO EXISTING BRACE CONNECTION END & CAP PLATE
SF201 NO SCALE

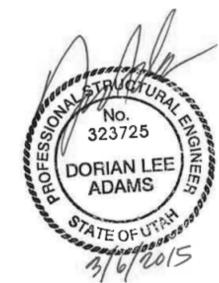


A3 NEW "BRB" BRACE CONNECTION TO EXISTING BRACE END & CAP PLATE - BOTTOM CONNECTION
SF201 NO SCALE

BUCKLING RESTRAINED BRACE SCHEDULE

MARK	LOCATION		LEVEL	QUANTITY	CORE AREA (in ²)	B	w	STIFFNESS MODIFICATION FACTOR	MINIMUM STROKE (in)	CASING*			CAP PLATE THICK (tp)	WELD A (in.)	REMARKS
	LINE	GRIDS								SHAPE	HEIGHT	WIDTH			
BRB 1.75	1	C-B	LEV-2	2	1.75	1.07	1.43	1.35	1.75	TUBE	7"	7"	1.5/8"	1/4"	
BRB 3.00	1	C-B	LEV-1	2	3.00	1.07	1.45	1.45	1.75	TUBE	7"	7"	2.1/8"	5/16"	
BRB 1.75	8	C-B	LEV-2	2	1.75	1.07	1.43	1.35	1.75	TUBE	7"	7"	1.5/8"	1/4"	
BRB 3.00	8	C-B	LEV-1	2	3.00	1.07	1.45	1.45	1.75	TUBE	7"	7"	2.1/8"	5/16"	
BRB 1.00	A	3-4	LEV-2	2	1.00	1.06	1.42	1.40	1.75	TUBE	7"	7"	1.1/2"	1/4"	
BRB 1.50	A	3-4	LEV-1	2	1.50	1.07	1.45	1.45	1.75	TUBE	7"	7"	2.3/4"	1/4"	
BRB 1.00	A	5-6	LEV-2	2	1.00	1.06	1.42	1.40	1.75	TUBE	7"	7"	1.1/2"	1/4"	
BRB 1.50	A	5-6	LEV-1	2	1.50	1.07	1.45	1.45	1.75	TUBE	7"	7"	2.3/4"	1/4"	
BRB 1.25	C	5-6	LEV-2	2	1.25	1.07	1.42	1.40	1.75	TUBE	7"	7"	1.5/8"	1/4"	
BRB 2.25	C	5-6	LEV-1	2	2.25	1.07	1.45	1.45	1.75	TUBE	7"	7"	2.1/8"	1/4"	

- NOTES**
- CORE MATERIAL SHALL BE ASTM A36 MATERIAL SELECTED TO PROVIDE A MINIMUM TENSILE YIELD STRENGTH OF 38 ksi AND A MAXIMUM TENSILE YIELD STRENGTH OF 46 ksi.
 - 'BRB' SUPPLIER SHALL DESIGN BRACE CONNECTIONS IN ACCORDANCE WITH AISC 341-10.
 - 'BRB' SUPPLIER SHALL PROVIDE TEST RESULTS FOR SIMILAR BRACES IN ACCORDANCE WITH ACI-10.
 - 'BRB' SUPPLIER SHALL PROVIDE TESTED MATERIAL ADJUSTMENT FACTOR FOR COMPRESSION STRENGTH (B) AND STRAIN HARDENING (w). MAXIMUM B = 1.07. MAXIMUM w = 1.45.
 - STIFFNESS MODIFICATION FACTORS (K) ARE DESIGN VALUES. ACTUAL VALUES TO BE WITHIN +/- 10% ACTUAL STIFFNESS WP TO WP (Keff) CALCULATED AS: $K_{eff} = K^*A_{sc}/E'L_{wp}$
 - MINIMUM STROKE TO OCCUR AT EACH END OF BRACE IN TENSION AND COMPRESSION DIRECTIONS. CORE EXTENSIONS TO REMAIN STABLE OVER 2X THIS LENGTH.
 - CAP PLATE MATERIAL SHALL BE ASTM A572, GRADE 50.
 - WELD "A" SHALL BE FULL LENGTH OF CAP PLATE.



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BRACED FRAME ELEVATIONS

REVISIONS:

ABBREVIATIONS

Ø	ROUND OR DIAMETER	LWT	LEAVING WATER TEMPERATURE
AD	ACCESS DOOR	MAX	MAXIMUM
AF	AIRFOIL	MBH	THOUSAND BRITISH THERMAL UNIT/HOUR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ALT	ALTERNATE	MIN	MINIMUM
BI	BACKWARD INCLINED	MPSA	MEDIUM PRESSURE SUPPLY AIR
BOD	BOTTOM OF DUCT	NC	NOISE CRITERIA OR NORMALLY CLOSED
BOP	BOTTOM OF PIPE	NIC	NOT IN CONTRACT
BTUH	BRITISH THERMAL UNITS PER HOUR	NO	NUMBER
CAP	CAPACITY	NOM	NOMINAL
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CV	CONSTANT VOLUME	OA	OUTSIDE AIR
DB	DRY BULB	OBDD	OPPOSED BLADE DAMPER
DN	DOWN	OD	OVERFLOW DRAIN
DIA	DIAMETER	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DCW	DOMESTIC COLD WATER	OFDI	OWNER FURNISHED, OWNER INSTALLED
DHW	DOMESTIC HOT WATER	PD	PRESSURE DROP
DHWR	DOMESTIC HOT WATER RECIRC.	POC	POINT OF CONNECTION
DSN	DOWN SPOUT NOZZLE	PRV	PRESSURE REDUCING VALVE
DW	DISHWASHER	PSI	POUNDS PER SQUARE INCH
(E)	EXISTING	PSIG	POUNDS PER SQUARE INCH GAUGE
EA	EXHAUST AIR OR EACH	RA	RETURN AIR
EAT	ENTERING AIR TEMPERATURE	RAD	RADIUS
EFF	EFFICIENCY	RD	ROOF DRAIN
ELEV	ELEVATION	RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
ENCL	ENCLOSURE	SA	SUPPLY AIR OR SHOCK ARRESTOR
ESP	EXTERNAL STATIC PRESSURE	SEN	SENSIBLE
ET	EXPANSION TANK	SIM	SIMILAR
EWC	ELECTRIC WATER COOLER	SL	SEA LEVEL
EWT	ENTERING WATER TEMPERATURE	SP	STATIC PRESSURE
FCD	FLOOR CLEANOUT	SF	SQUARE FEET
FD	FLOOR DRAIN	SS	SERVICE SINK OR STAINLESS STEEL
FO	FLAT OVAL	TOD	TOP OF DUCT
FPM	FEET PER MINUTE	TSP	TOTAL STATIC PRESSURE
FS	FLOOR SINK	TYP.	TYPICAL
FT	FEET	U	URINAL
FV	FACE VELOCITY	V	VENT
GA	GAUGE	VAV	VARIABLE AIR VOLUME
GAL	GALLON	VD	VOLUME DAMPER
GD	GARAGE DRAIN	VFD	VARIABLE FREQUENCY DRIVE
GPM	GALLONS PER MINUTE	VOL	VOLUME
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HR	HOUR	W	WITH
HT	HEIGHT	W/O	WITHOUT
IN	INCH	WB	WET BULB
INWC	INCHES OF WATER COLUMN	WC	WATER CLOSET
INWG	INCHES OF WATER GAUGE	MVD	MANUAL VOLUME DAMPER
L	LAVATORY OR LOUVER	WCO	WALL CLEANOUT
LAT	LEAVING AIR TEMPERATURE	WPD	WATER PRESSURE DROP
LBS	POUNDS	WT	WEIGHT
		W	SANITARY WASTE

MECHANICAL LEGEND

NOTE: ALL ITEMS MAY NOT APPEAR ON DRAWINGS

GATE VALVE		CHILLED WATER SUPPLY	— X" CHS
OS & Y PATTERN GATE VALVE		CHILLED WATER RETURN	— X" CHR
BALL VALVE		CONDENSER WATER SUPPLY	— X" CS
BUTTERFLY VALVE		CONDENSER WATER RETURN	— X" CR
MOTORIZED VALVE OPERATOR		GROUND LOOP SUPPLY	— X" GLS
GAS COCK		GROUND LOOP RETURN	— X" GLR
PLUG VALVE		HEATING WATER SUPPLY	— X" HWS
CHECK VALVE (SWING OR LIFT AS REQ'D)		HEATING WATER RETURN	— X" HWR
SOLENOID VALVE		RADIANT FLOOR SUPPLY	— X" RFS
AUTOMATIC CONTROL VALVE (2-WAY)		RADIANT FLOOR RETURN	— X" RFR
AUTOMATIC CONTROL VALVE (3-WAY)		SNOW MELT SUPPLY	— X" SMS
PRESSURE REDUCING VALVE		SNOW MELT RETURN	— X" SMR
P & T RELIEF VALVE		STEAM	— X" S
AIR VENT (AUTOMATIC)		STEAM CONDENSATE RETURN	— X" SCR
CURB COCK		WATER TREATMENT	— X" WT
THERMAL EXPANSION VALVE		FUEL OIL SUPPLY	— X" FOS
STRAINER		FUEL OIL RETURN	— X" FOR
CALIBRATED BALANCE VALVE		REFRIGERANT LIQUID	— X" RL
VENTURI FLOW METER		REFRIGERANT SUCTION	— X" RS
REDUCER		HOT GAS	— X" HG
PET COCK OR GAUGE COCK		HOT GAS BYPASS	— X" HGBP
PRESSURE GAUGE W/GAUGE COCK		VACUUM	— X" VAC
THERMOMETER		MEDICAL AIR	— X" MA
TEMPERATURE & PRESSURE TEST PLUG		OXYGEN	— X" O2
IN-LINE PUMP		NITROUS OXIDE	— X" N2O
FLOW SWITCH		NITROGEN	— X" N
AQUASTAT		HYDROGEN	— X" H
TEMPERATURE SENSING WELL		HELIUM	— X" HE
HOSE BIBB OR SILLCOCK		CARBON DIOXIDE	— X" CO2
YARD HYDRANT		ARGON	— X" AR
FLOOR DRAIN		DUCT SIZE (IN, FIRST FIGURE IS SIDE SHOWN)	
FLOOR SINK		BURIED OR UNDERFLOOR DUCT	
MANHOLE		FLEXIBLE DUCT (HELICAL)	
WALL CLEANOUT		SPIN-IN FITTING W/ MVD	
FLOOR OR GRADE CLEANOUT		FLEXIBLE DUCT CONNECTION	
GRADE CLEANOUT W/ CONCRETE PAD		SUPPLY SLOT DIFFUSER	
VENT THROUGH ROOF		SUPPLY DIFFUSER	
POST TYPE FDC CONNECTION		RETURN GRILLE	
WALL TYPE FDC CONNECTION		RADIAL SUPPLY DIFFUSERS	
FIRE HOSE CABINET		RETURN AIR DUCT SECTION	
FIRE DEPT. HORN & LIGHT		RETURN AIR DUCT UP	
EXPANSION JOINT		RETURN AIR DUCT DOWN	
FLEXIBLE PIPE CONNECTION		SUPPLY AIR DUCT SECTION	
REDUCED PRESSURE BACKFLOW PREVENTER		SUPPLY AIR DUCT UP	
DIRECTION OF FLOW		SUPPLY AIR DUCT DOWN	
ELBOW DOWN		EXHAUST AIR DUCT SECTION	
ELBOW UP		EXHAUST AIR DUCT UP	
PIPE CAP		EXHAUST AIR DUCT DOWN	
TEE DOWN		ACCESS PANEL	
UNION		MANUAL VOLUME DAMPER	
DOMESTIC COLD WATER	— X" DCW	GRAVITY BACKDRAFT DAMPER	
DOMESTIC HOT WATER	— X" DHW	MOTORIZED DAMPER	
DOMESTIC HOT WATER RECIRC.	— X" DHWR	AIR FLOW STATION	
TEMPERED WATER	— X" T	FIRE DAMPER	
SANITARY (PLBG) VENT	----- X" V -----	SMOKE DAMPER	
SANITARY WASTE ABOVE GRADE	--- X" W ---	COMBINATION FIRE/SMOKE DAMPER	
SANITARY WASTE BELOW GRADE	--- X" W ---	DUCT TRANSITION	
GREASE WASTE ABOVE GRADE	--- X" GW ---	ELBOW W/ TURNING VANES	
GREASE WASTE BELOW GRADE	--- X" GW ---	TEE W/ 45° ENTRY	
DRAIN	--- X" D ---	WYE W/ 45° ENTRY	
ROOF DRAIN	--- X" RD ---	THERMOSTAT OR TEMP SENSOR EQUIPMENT TAG	
OVERFLOW DRAIN	--- X" OD ---	HUMIDISTAT OR HUMIDITY SENSOR	
FIRE SERVICE	--- X" F ---	CARBON MONOXIDE SENSOR	
NATURAL GAS	--- X" G ---	CARBON DIOXIDE SENSOR	
PROPANE	--- X" P ---	NITROGEN DIOXIDE SENSOR	
COMPRESSED AIR	--- X" CA ---	POINT OF REMOVAL FROM EXISTING	
INDUSTRIAL WATER (NON-POTABLE)	--- X" IW ---	POINT OF CONNECTION TO EXISTING	
DEIONIZED WATER	--- X" DI ---	DETAIL TAG	
DEIONIZED WATER RETURN	--- X" DIR ---	DRAWING NO.	
REVERSE OSMOSIS	--- X" RO ---	NOTE NO.	
HEAT TRACING	//////	KEYED NOTE	
		SECTION NO.	
		DRAWING NO.	
		SECTION OUT LINE	

DRAWING INDEX

#	SHEET NAME
M001	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS
M002	COMCHECK
FP101	LEVEL 1 FIRE PROTECTION PLAN
FP102	LEVEL 2 FIRE PROTECTION PLAN
MD101	DEMO MECHANICAL AND PIPING PLAN - LEVEL 1
MD102	DEMO MECHANICAL AND PIPING PLAN - LEVEL 2
MD103	MECHANICAL / PLUMBING DEMO PLAN - ROOF
MH101	REMODEL MECHANICAL PLAN - LEVEL 1
MH102	REMODEL MECHANICAL PLAN - LEVEL 2
MH103	MECHANICAL / PLUMBING REMODEL PLAN - ROOF
MH501	MECHANICAL DETAILS
MH502	MECHANICAL DETAILS
MH601	MECHANICAL SCHEDULES
MH602	MECHANICAL SCHEDULES
MH701	VRF SCHEMATICS - LEVEL 1 & 2
MH702	CONTROL SCHEMATICS
MH703	CONTROL SCHEMATICS
PD101	DEMO PLUMBING PLAN - LEVEL 1
PD102	DEMO PLUMBING PLAN - LEVEL 2
PL101	REMODEL PLUMBING PLAN - LEVEL 1
PL102	REMODEL PLUMBING PLAN - LEVEL 2
PL501	PLUMBING DETAILS
PL601	PLUMBING SCHEDULES



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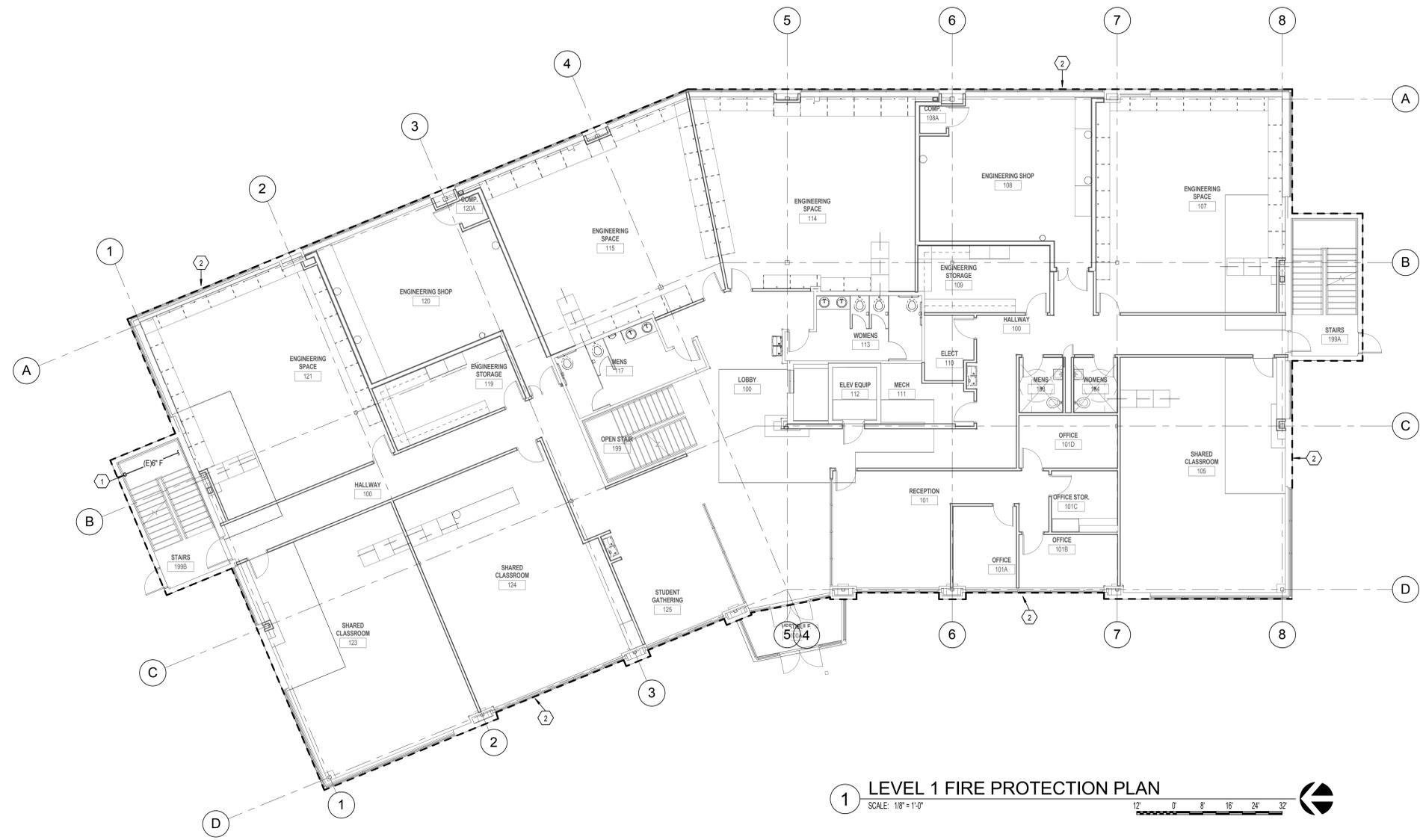
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ISSUED DATE: 03/09/2015

**MECHANICAL LEGEND,
SYMBOLS & ABBREVIATIONS**

REVISIONS:

NO.	DATE	DESCRIPTION



1 LEVEL 1 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"
12 0 8 16 24 32

KEYED NOTES

- 1 EXISTING TO REMAIN.
- 2 MODIFY EXISTING FIRE SPRINKLER SYSTEM TO ACCOMMODATE NEW FLOOR PLAN.

GENERAL NOTES

- A. AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE HYDRAULICALLY CALCULATED IN ACCORDANCE WITH NFPA #13, 2009 EDITION.
- B. AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA#13, 2009 EDITION. INSTALLATION OF SPRINKLER SYSTEMS.
- C. FURNISH AND INSTALL NEW PIPE, FITTINGS, SPRINKLER HEADS AS REQUIRED TO COMPLETE THE WORK. ALL MATERIALS TO MATCH EXISTING.
- D. NEW SPRINKLER HEADS TO MATCH CEILING TYPE. COORDINATE WITH ARCHITECTURAL SHEETS.
- E. ALL PIPING SHALL BE DOMESTIC.
- F. FITTINGS SHALL BE THREADED, WELDED AND GROOVED IN ACCORDANCE WITH LISTING AND NFPA #13 REQUIREMENTS.
- G. SEISMIC BRACING AND FLEXIBLE COUPLINGS SHALL BE PROVIDED AS REQUIRED FOR SEISMIC PROTECTION.
- H. PLAIN END OR MECHANICAL TEES SHALL NOT BE USED, UNLESS REQUIRED FOR FIELD MODIFICATION OF PIPING SYSTEM.
- I. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
- J. TIGHT CEILING SPACE WILL REQUIRE SOME SPRINKLER LINES TO OFFSET OVER OR UNDER DUCTWORK, PIPE, OR OTHER OBSTACLES. PROVIDE DRAINS AS REQUIRED.
- K. SHOP DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR USING AN REVIT COMPATIBLE FORMAT. SUBMIT TO OWNERS INSURANCE REVIEW CONSULTANT AND ARCHITECT AND ENGINEER. AS-BUILT DRAWINGS AND ELECTRONIC DRAWING FILES SHALL BE PROVIDED AT END OF PROJECT BY CONTRACTOR.
- L. FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS AND MATERIALS SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO SUBMITTING TO OTHER AUTHORITIES HAVING JURISDICTION.
- M. FIRE SPRINKLER CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS AND/OR APPROVALS FROM CITY, COUNTY, AND STATE.
- N. PRESSURE TEST AND CERTIFY SPRINKLER SYSTEM.
- O. PIPE ROUTING, ELEVATIONS, SPRINKLER LOCATIONS, ARE SCHEMATIC, AND SHALL BE USED AS REFERENCE ONLY. INSTALLER SHALL FIELD VERIFY CONDITIONS, AND PROVIDE OFFSETS AS REQUIRED FOR INSTALLATION. DEVIATION FROM SCHEMATIC PLAN SHALL BE APPROVED IN WRITING BY THE ENGINEER, PRIOR TO INSTALLATION.
- P. NEW FIRE PROTECTION WORK TO INCLUDE HEADS AND PIPING SYSTEM AS REQUIRED TO MEET NFPA REQUIREMENTS.
- Q. NEW PIPING TO BE SCHEDULE 40 STEEL PIPE LISTED FOR FIRE PROTECTION.
- R. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- S. SUBMIT FIRE PROTECTION DRAWINGS TO LANDLORDS/OWNER'S INSURANCE REVIEW CONSULTANT.
- T. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.
- U. COORDINATE PIPE ROUTING WITH OTHER TRADES.



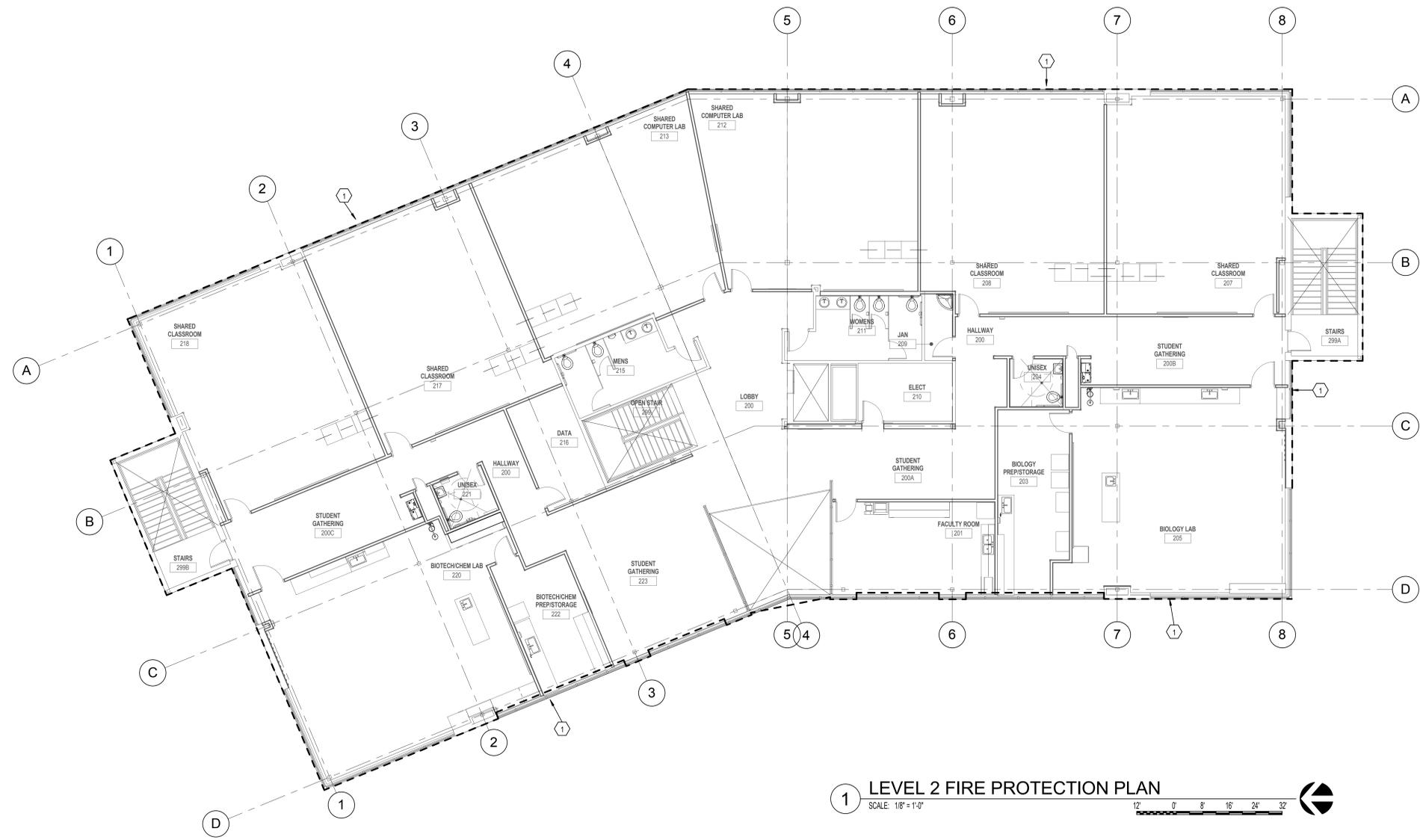
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**LEVEL 1 FIRE PROTECTION
PLAN**

REVISIONS:



1 LEVEL 2 FIRE PROTECTION PLAN
SCALE: 1/8" = 1'-0"
12' 0' 8' 16' 24' 32'

KEYED NOTES

1 MODIFY EXISTING FIRE SPRINKLER SYSTEM TO ACCOMMODATE NEW FLOOR PLAN.

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- F. FITTINGS SHALL BE THREADED, WELDED AND GROOVED IN ACCORDANCE WITH LISTING AND NFPA #13 REQUIREMENTS.
- G. SEISMIC BRACING AND FLEXIBLE COUPLINGS SHALL BE PROVIDED AS REQUIRED FOR SEISMIC PROTECTION.
- H. PLAIN END OR MECHANICAL TEES SHALL NOT BE USED, UNLESS REQUIRED FOR FIELD MODIFICATION OF PIPING SYSTEM.
- I. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
- J. TIGHT CEILING SPACE WILL REQUIRE SOME SPRINKLER LINES TO OFFSET OVER OR UNDER DUCTWORK, PIPE, OR OTHER OBSTACLES. PROVIDE DRAINS AS REQUIRED.
- K. SHOP DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR USING AN REVIT COMPATIBLE FORMAT. SUBMIT TO OWNERS INSURANCE REVIEW CONSULTANT AND ARCHITECT AND ENGINEER. AS-BUILT DRAWINGS AND ELECTRONIC DRAWING FILES SHALL BE PROVIDED AT END OF PROJECT BY CONTRACTOR.
- L. FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS AND MATERIALS SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO SUBMITTING TO OTHER AUTHORITIES HAVING JURISDICTION.
- M. FIRE SPRINKLER CONTRACTOR TO ACQUIRE ALL NECESSARY PERMITS AND/OR APPROVALS FROM CITY, COUNTY, AND STATE.
- N. PRESSURE TEST AND CERTIFY SPRINKLER SYSTEM.
- O. PIPE ROUTING, ELEVATIONS, SPRINKLER LOCATIONS, ARE SCHEMATIC, AND SHALL BE USED AS REFERENCE ONLY. INSTALLER SHALL FIELD VERIFY CONDITIONS, AND PROVIDE OFFSETS AS REQUIRED FOR INSTALLATION. DEVIATION FROM SCHEMATIC PLAN SHALL BE APPROVED IN WRITING BY THE ENGINEER, PRIOR TO INSTALLATION.
- P. NEW FIRE PROTECTION WORK TO INCLUDE HEADS AND PIPING SYSTEM AS REQUIRED TO MEET NFPA REQUIREMENTS.
- Q. NEW PIPING TO BE SCHEDULE 40 STEEL PIPE LISTED FOR FIRE PROTECTION.
- R. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- S. SUBMIT FIRE PROTECTION DRAWINGS TO LANDLORDS/OWNER'S INSURANCE REVIEW CONSULTANT.
- T. COORDINATE WITH AHJ FOR SYSTEM DESIGN REQUIREMENTS.
- U. COORDINATE PIPE ROUTING WITH OTHER TRADES.



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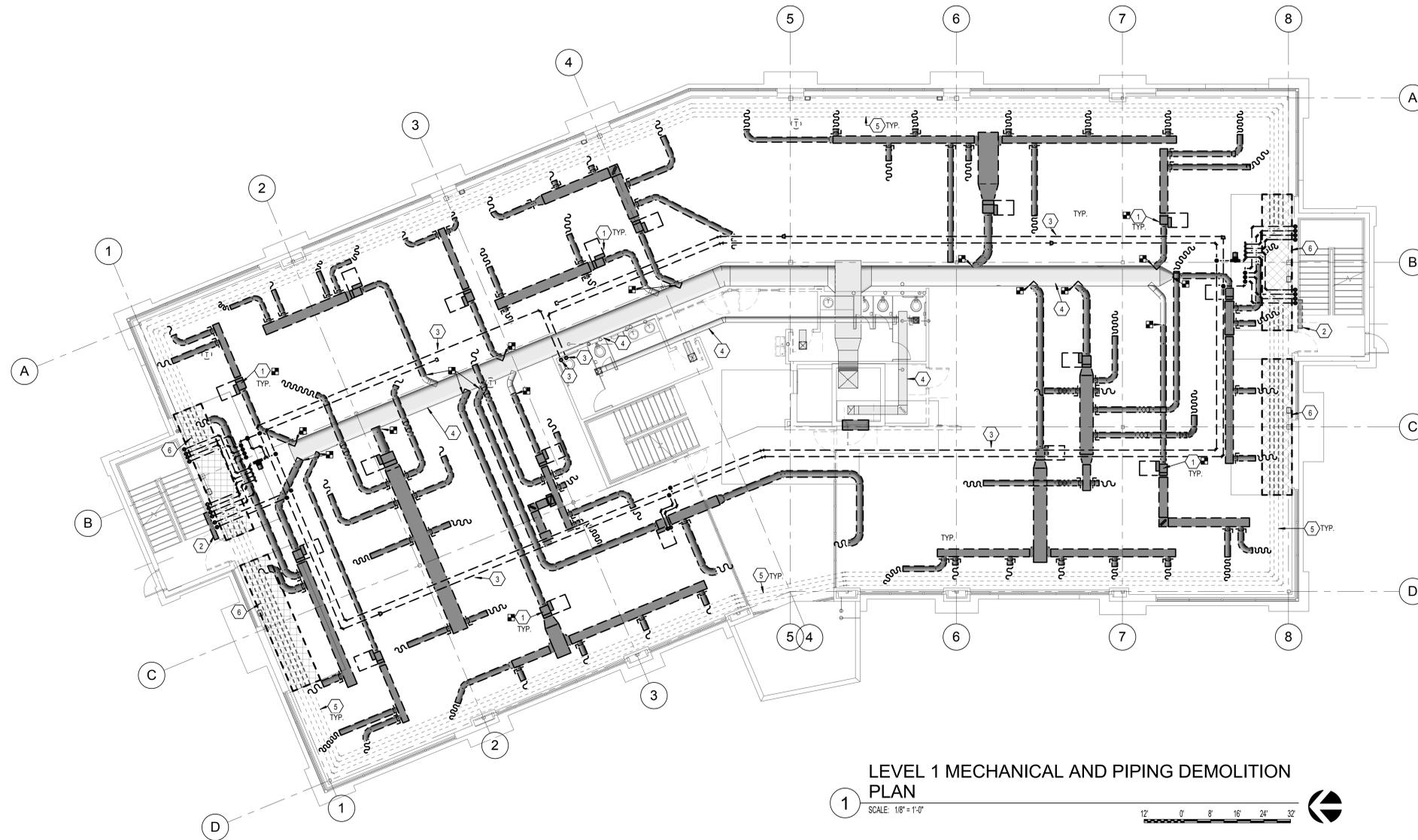
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4110 STATE OFFICE
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LAKE CITY, UT 84114
OWNER PROJECT NO.: 14297810
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**LEVEL 2 FIRE PROTECTION
PLAN**

REVISIONS:

NO.	DESCRIPTION



- KEYED NOTES**
- 1 REMOVE EXISTING VAV BOX AND ASSOCIATED DUCTWORK, DIFFUSERS, HEATING WATER PIPING, AND CONTROL. PATCH, REPAIR DUCT, AND SEAL AIR TIGHT AS NECESSARY.
 - 2 REMOVE EXISTING CABINET UNIT HEATER AND ASSOCIATED HEATING WATER PIPING, AND CONTROL.
 - 3 REMOVE ALL THE EXISTING HEATING WATER PIPING SYSTEM ON THIS LEVEL AND ALL THE WAY UP TO THE PENTHOUSE.
 - 4 EXISTING DUCT WORK TO REMAIN.
 - 5 EXISTING PERIMETER SLAB WARMING PIPE TO BE ABANDONED IN PLACE WHERE SLAB IS NOT REMOVED.
 - 6 HATCHED AREA IS WHERE CONTRACTOR IS TO REMOVE PERIMETER SLAB WARMING PIPE AND PIPING MAIFOLD FOR NEW STRUCTURE.

- GENERAL NOTES**
- A. PREVIOUS DEMOLITION WORK HAS OCCURRED TO CEILING AND WALLS REMOVE REMAINING THERMOSTAT WIRE ABOVE CEILING.
 - B. EXISTING DUCT, EQUIPMENT AND PIPE TO REMAIN IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION DUCT, EQUIPMENT AND PIPE IS SHOWN DARK WITH A BOLD DASHED LINE. NEW DUCT, EQUIPMENT AND PIPE IS SHOWN DARK AND WITH THICK LINE.
 - C. CONTRACTOR TO MAINTAIN INTEGRITY OF ALL MECHANICAL ITEMS TO REMAIN.
 - D. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.

LEVEL 1 MECHANICAL AND PIPING DEMOLITION PLAN

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



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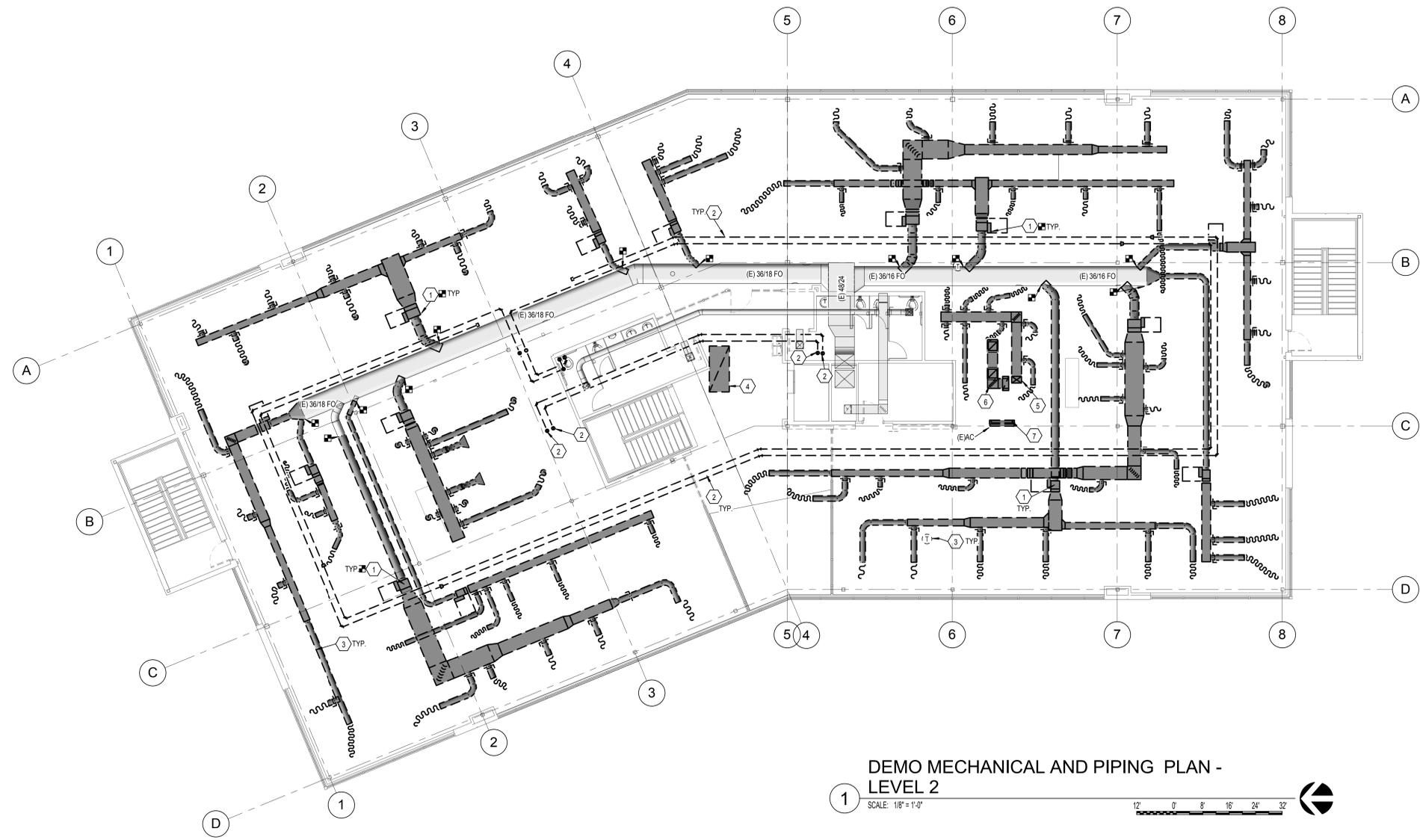
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STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
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**DEMO MECHANICAL AND
PIPING PLAN - LEVEL 1**

REVISIONS:

NO.	DESCRIPTION



**DEMO MECHANICAL AND PIPING PLAN -
LEVEL 2**

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

KEYED NOTES

- 1 REMOVE EXISTING VAV BOX AND ASSOCIATED DUCTWORK, DIFFUSERS, HEATING WATER PIPING, AND CONTROL. PATCH, REPAIR DUCT, AND SEAL AIR TIGHT AS NECESSARY.
- 2 REMOVE ALL THE EXISTING HEATING WATER PIPING SYSTEM ON THIS LEVEL AND ALL THE WAY UP TO THE PENTHOUSE.
- 3 REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING BACK TO THE EXISTING UNIT.
- 4 REMOVE EXISTING RETURN AIR DUCT ALL THE WAY UP TO THE AIR HANDLER UNIT ON THE ROOF.
- 5 REMOVE EXISTING DUCTWORK ALL THE WAY UP TO THE EXISTING ROOF TOP UNIT.
- 6 REMOVE EXISTING RETURN AIR DUCTWORK ALL THE WAY UP TO THE EXISTING ROOF TOP UNIT.
- 7 EXISTING AC UNIT HAS BEEN REMOVED IN PRIOR DEMOLITION WORK. REMOVE EXISTING AC UNIT ASSOCIATED CONDENSATE DRAIN PIPE BACK TO MAIN AND CAP. DISCONNECT AC UNIT ELECTRICAL POWER FROM THE EXISTING POWER CONNECTION.

GENERAL NOTES

- A. PREVIOUS DEMOLITION WORK HAS OCCURRED TO CEILING AND WALLS REMOVE REMAINING THERMOSTAT WIRE ABOVE CEILING.
- B. EXISTING DUCT, EQUIPMENT AND PIPE TO REMAIN IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION DUCT, EQUIPMENT AND PIPE IS SHOWN DARK WITH A BOLD DASHED LINE. NEW DUCT, EQUIPMENT AND PIPE IS SHOWN DARK AND WITH THICK LINE.
- C. CONTRACTOR TO MAINTAIN INTEGRITY OF ALL MECHANICAL ITEMS TO REMAIN.
- D. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.



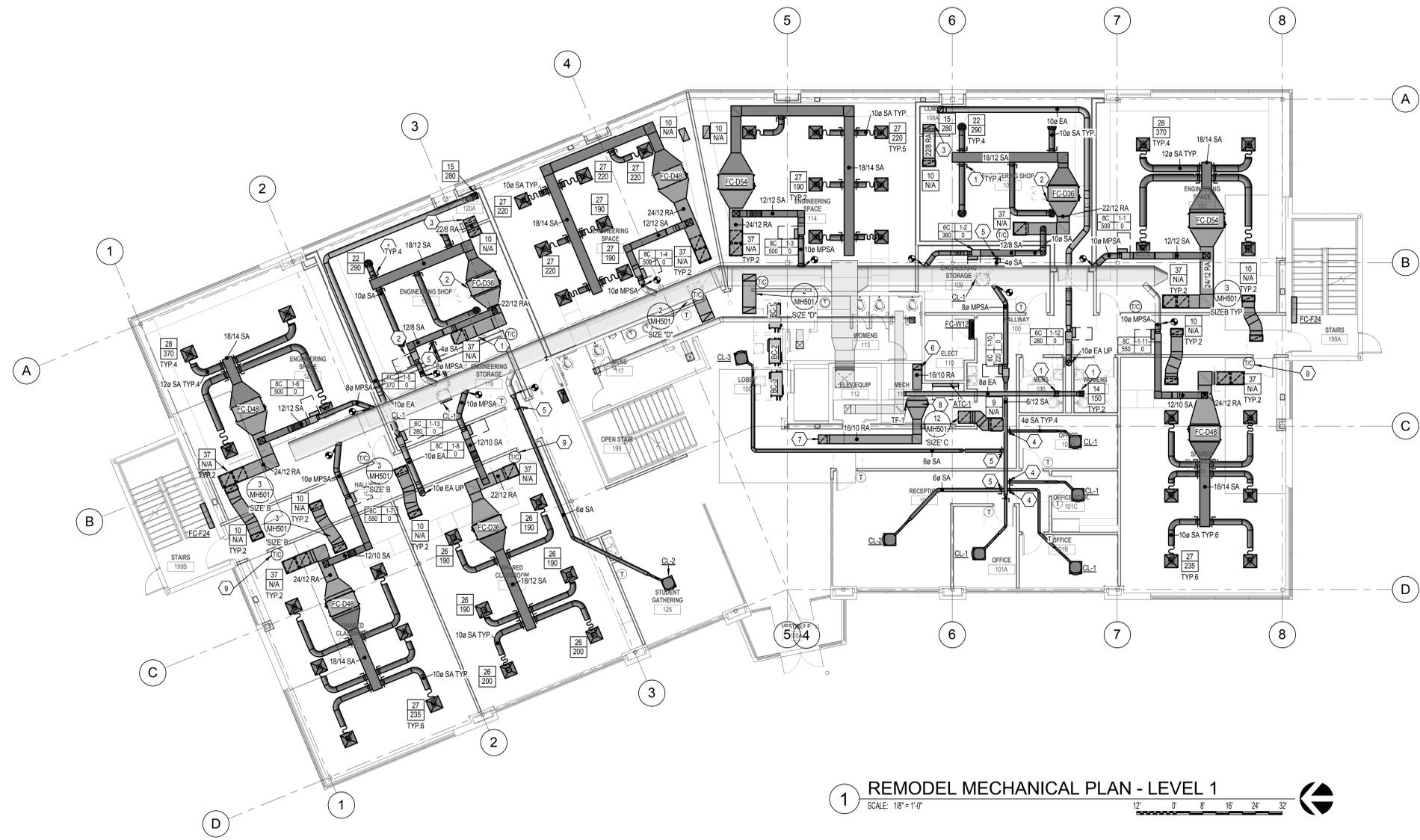
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**DEMO MECHANICAL AND
PIPING PLAN - LEVEL 2**

REVISIONS:



- KEYED NOTES**
- 1 PROVIDE REMOTE DAMPER ACTUATOR. COORDINATE LOCATION WITH OWNER AND ARCHITECT.
 - 2 PROVIDE 24"x24" ACCESS PANEL.
 - 3 ROUTE DUCT TO 12" ABOVE FLOOR. COVER OPENING WITH INSECT SCREEN.
 - 4 BALANCE DAMPER TO 20 CFM.
 - 5 BALANCE DAMPER TO 45 CFM.
 - 6 ROUTE DUCT TO 12" ABOVE FLOOR. COVER OPENING WITH INSECT SCREEN.
 - 7 DUCT TO BE OPEN ENDED FOR EXHAUST INTO CEILING PLENUM.
 - 8 HANG FAN WITH SPRING ISOLATORS.
 - 9 COORDINATE LOCATION OF THERMOSTAT/C02 SENSOR WITH ARCHITECTURAL AND ELECTRICAL DEVICES WITH DETAIL 2/EET01. (TYPICAL)

- GENERAL NOTES**
- A. EXISTING REMAIN DUCT, EQUIPMENT AND PIPE IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION DUCT, EQUIPMENT AND PIPE IS SHOWN DARK WITH A BOLD DASHED LINE. NEW DUCT, EQUIPMENT AND PIPE IS SHOWN DARK AND WITH THICK LINE.
 - B. CONTRACTOR TO MAINTAIN INTEGRITY OF ALL MECHANICAL ITEMS.
 - C. PATCH, REPAIR, AND CAP DUCTWORK AS REQUIRED.
 - D. 24" x 24" ACCESS PANEL WHERE REQUIRED.
 - E. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.
 - F. COORDINATE DUCT RUN OUTS WITH EXISTING DUCT, PIPING, AND EQUIPMENT ON SITE.
 - G. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.
 - H. DIFFUSER DUCT RUNOUT SAME AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
 - I. THERMOSTATS WITH INTEGRAL CO₂ SENSORS AND MANUAL OVERRIDE BUTTON FOR OCCUPANCY.

1 REMODEL MECHANICAL PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"

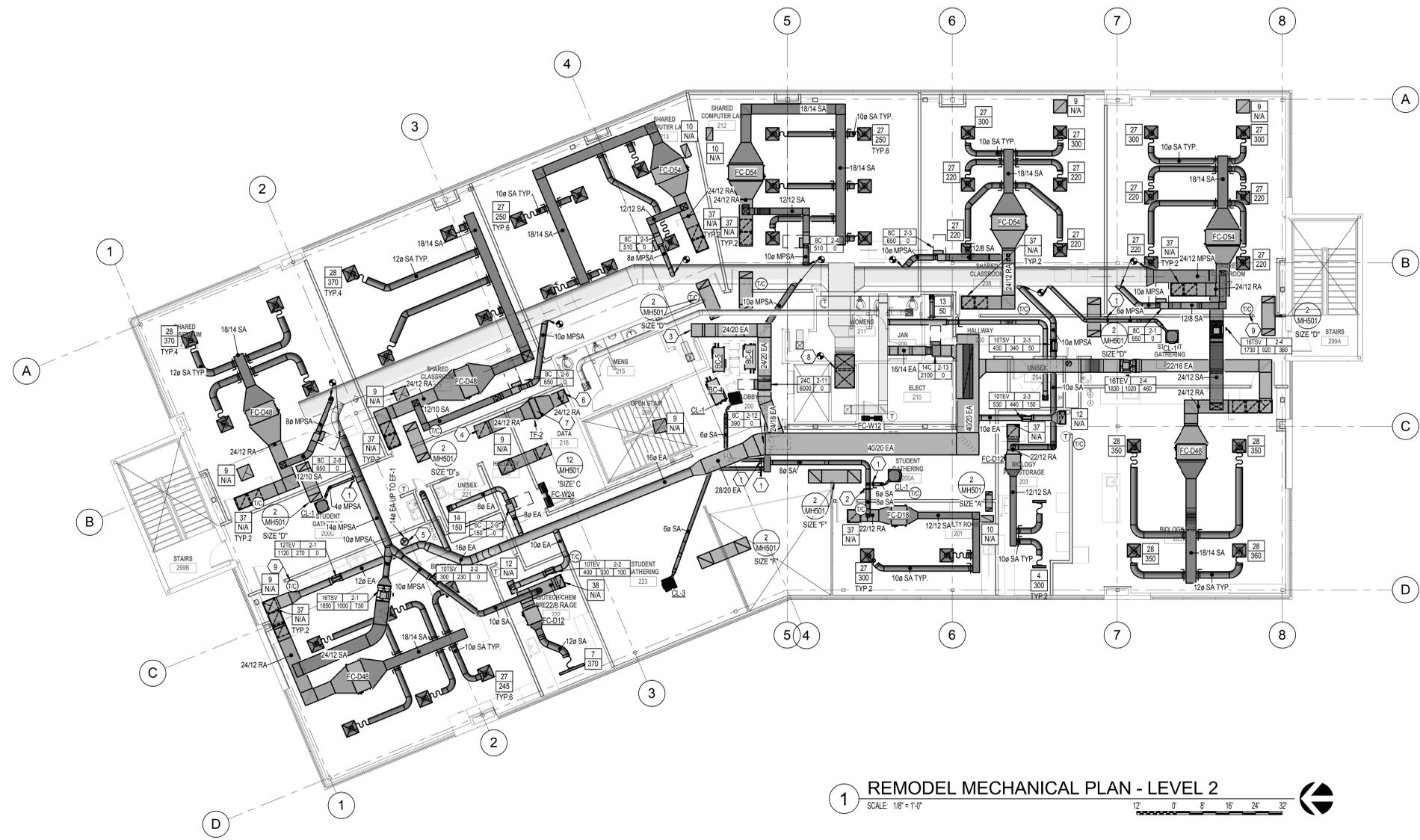


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**REMODEL MECHANICAL PLAN -
LEVEL 1**

REVISIONS:



- KEYED NOTES**
- BALANCE DAMPER TO 45 CFM.
 - BALANCE DAMPER TO 110 CFM.
 - RELIEF AIR DUCT WITH SOUND BOOT.
 - DUCT TO BE OPEN ENDED FOR EXHAUST INTO CEILING PLENUM.
 - 316 WELDED STAINLESS STEEL DUCT. CONSTRUCTED TO SMACNA SEAL CLASS A.
 - ROUTE DUCT TO 12" ABOVE FLOOR. COVER OPENING WITH INSECT SCREEN.
 - HANG FAN WITH SPRING ISOLATORS.
 - PROVIDE TRANSITION DUCTWORK FROM NEW DOAS-1 TO EXISTING DUCTWORK. SILL CONNECTIONS AIR TIGHT.
 - COORDINATE LOCATION OF THERMOSTAT/CO2 SENSOR WITH ARCHITECTURAL AND ELECTRICAL DEVICES WITH DETAIL 2/EE701. (TYPICAL)

- GENERAL NOTES**
- EXISTING REMAIN DUCT, EQUIPMENT AND PIPE IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION DUCT, EQUIPMENT AND PIPE IS SHOWN DARK WITH A BOLD DASHED LINE. NEW DUCT, EQUIPMENT AND PIPE IS SHOWN DARK AND WITH THICK LINE.
 - CONTRACTOR TO MAINTAIN INTEGRITY OF ALL MECHANICAL ITEMS.
 - PATCH, REPAIR, AND GAP DUCTWORK AS REQUIRED.
 - 24" x 24" ACCESS PANEL WHERE REQUIRED.
 - NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.
 - COORDINATE DUCT RUN OUTS WITH EXISTING DUCT, PIPING, AND EQUIPMENT ON SITE.
 - COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.
 - DIFFUSER DUCT RUNOUT SAME AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
 - THERMOSTATS WITH INTEGRAL CO₂ SENSORS AND MANUAL OVERRIDE BUTTON FOR OCCUPANCY.

1 REMODEL MECHANICAL PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"
12' 0" 8" 16" 24" 32'



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**REMODEL MECHANICAL PLAN -
LEVEL 2**

AIRFLOW TABLE FOR ROOMS SERVED BY LAB VALVES (1) (2) (3)

ROOM NUMBER	ROOM NAME	ROOM VOLUME CF	UNOCCUPIED ACH	OCCUPIED ACH	EMERGENCY ACH	UNOCCUPIED SUPPLY AIR CFM	OCCUPIED SUPPLY AIR CFM	EMERGENCY SUPPLY AIR CFM	VENTILATION SUPPLY AIR CFM	MAX SUPPLY AIR CFM	DESIGN SUPPLY EXHAUST OFFSET CFM	UNOCCUPIED EXHAUST AIR CFM	OCCUPIED EXHAUST AIR CFM	EMERGENCY EXHAUST AIR CFM	FUME HOODS EXHAUST AIR CFM	GENERAL EXHAUST AIR CFM	MISCELLANEOUS EXHAUST AIR CFM	MAX EXHAUST AIR CFM	NOTES
220	BIOTECH/CHEM LAB	9730	3	6	12	730	1000	1850	560	1850	100	830	1100	1950	830	1100	0	1950	
222	BIOTECH/CHEM PREP/STORAGE	1980	3	6	12	0	230	300	90	300	100	100	330	400	0	330	0	400	
205	BIOLOGY LAB	9120	3	6	12	360	920	1730	550	1730	100	460	1020	1830	0	1020	0	1830	
203	BIOLOGY PREP/STORAGE	2620	3	6	12	50	340	430	110	430	100	150	440	530	0	440	0	530	

1. SUPPLY AND EXHAUST AIR OFFSET VALUE REMAINS UNCHANGED DURING ALL UNOCCUPIED, OCCUPIED, AND EMERGENCY MODES.
2. EXHAUST AIRFLOW RATE FROM ROOM SHALL NEVER BE LESS THAN THE VALUE SHOWING IN THIS TABLE DURING THE UNOCCUPIED, OCCUPIED, AND EMERGENCY MODES.
3. AIRFLOW VALUES FROM THIS TABLE SUPERSEDE THE VALUES SHOWN ON THE FLOOR PLANS FOR THE PHOENIX VALVE TAGS.

REVISIONS:

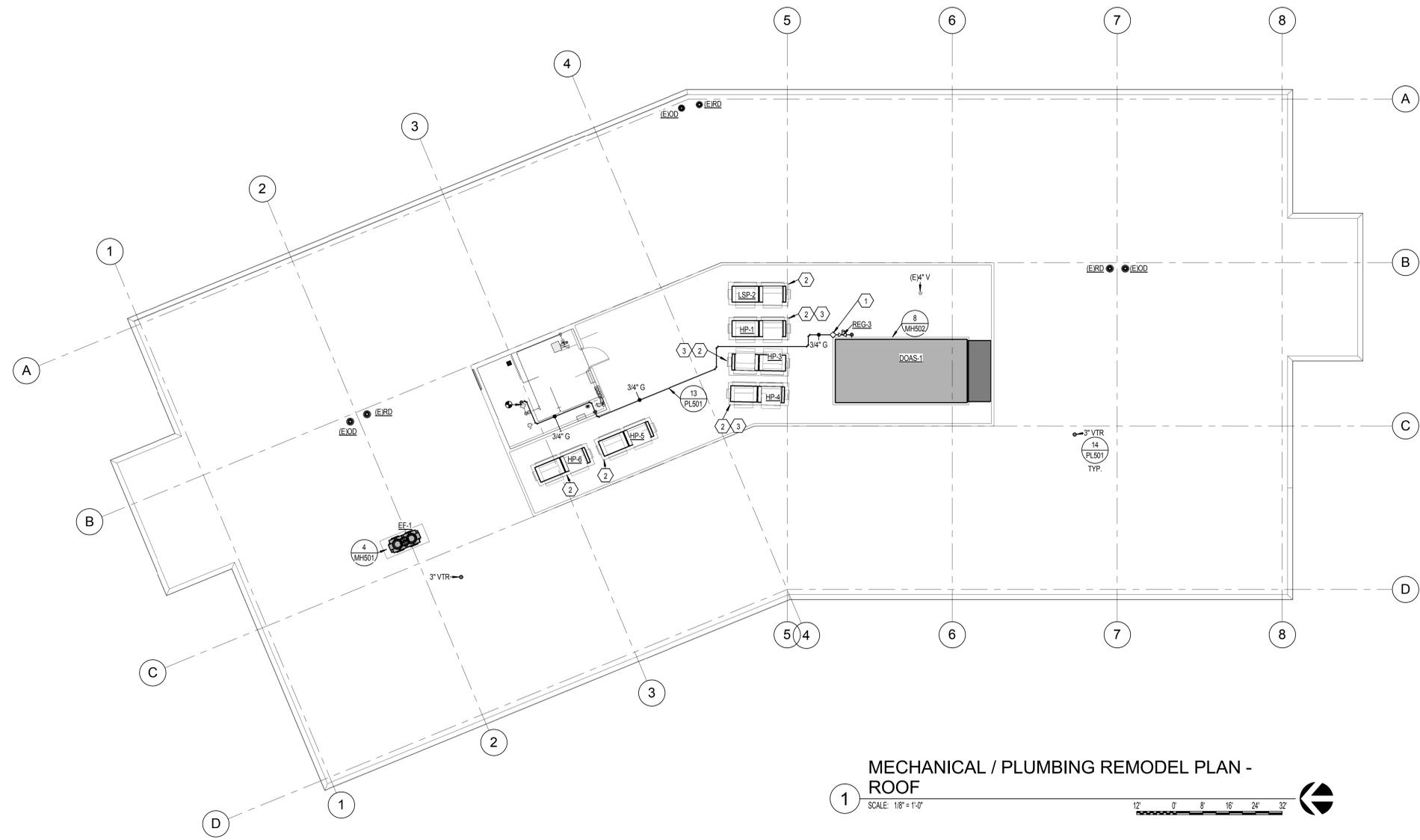
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KEYED NOTES

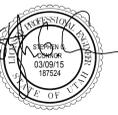
- 1 CONNECT 40Z. GAS PIPE TO THE DOAS UNIT. PROVIDE WITH DIRT LEG, GAS COCK, AND UNION.
- 2 PROVIDE 14 HIGH ROOF CURB FOR MECHANICAL EQUIPMENT.
- 3 MOUNT ON EXISTING CONCRETE PAD.

GENERAL NOTES

- A. EXISTING REMAIN DUCT, EQUIPMENT AND PIPE IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION DUCT, EQUIPMENT AND PIPE IS SHOWN DARK WITH A BOLD DASHED LINE. NEW DUCT, EQUIPMENT AND PIPE IS SHOWN DARK AND WITH THICK LINE.
- B. CONTRACTOR TO MAINTAIN INTEGRITY OF ALL MECHANICAL ITEMS.
- C. PATCH, REPAIR, AND CAP DUCTWORK AS REQUIRED.
- D. 24" x 24" ACCESS PANEL WHERE REQUIRED.
- E. NO DUCT OR PIPE TO RUN OVER ELECTRICAL PANEL.
- F. COORDINATE DUCT RUN OUTS WITH EXISTING DUCT, PIPING, AND EQUIPMENT ON SITE.
- G. COORDINATE DUCTWORK AND EQUIPMENT WITH ALL TRADES.
- H. DIFFUSER DUCT RUNOUT SAME AS DIFFUSER NECK UNLESS NOTED OTHERWISE.
- I. THERMOSTATS WITH INTEGRAL CO₂ SENSORS AND MANUAL OVERRIDE BUTTON FOR OCCUPANCY.



MECHANICAL / PLUMBING REMODEL PLAN - ROOF



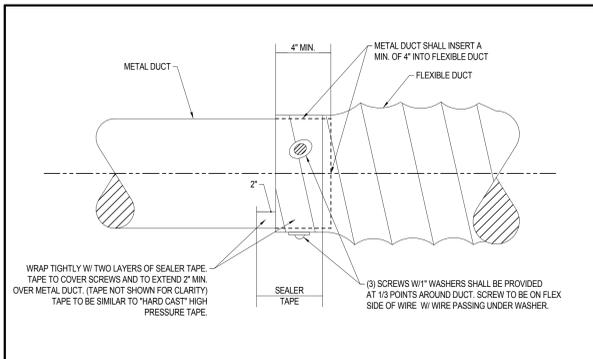
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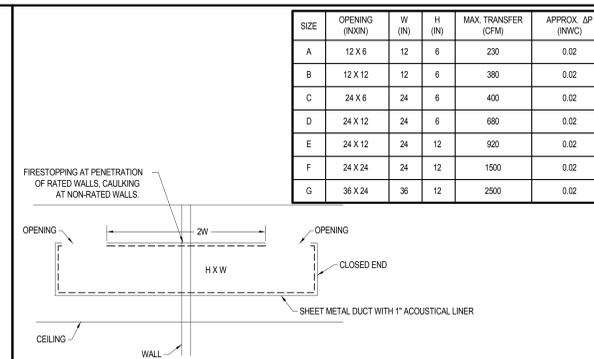
4110 STATE OFFICE
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**MECHANICAL / PLUMBING
REMODEL PLAN - ROOF**

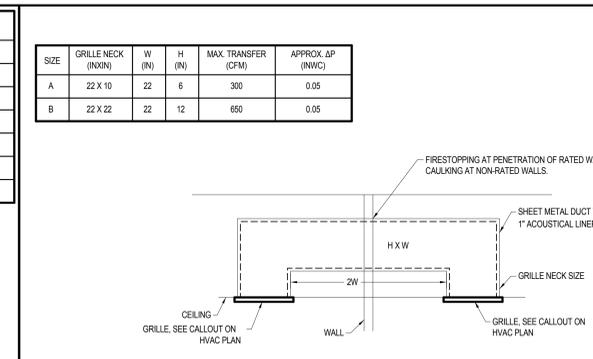
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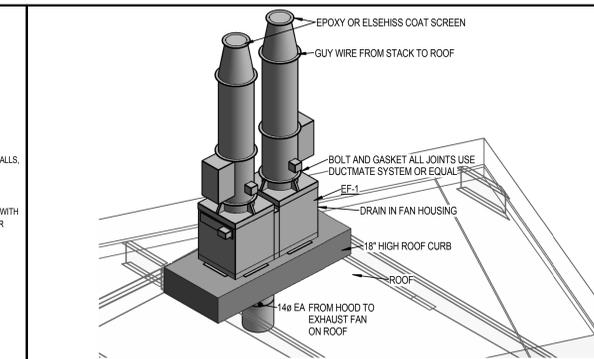
1 FLEXIBLE DUCT / RIGID DUCT CONNECTION
NO SCALE



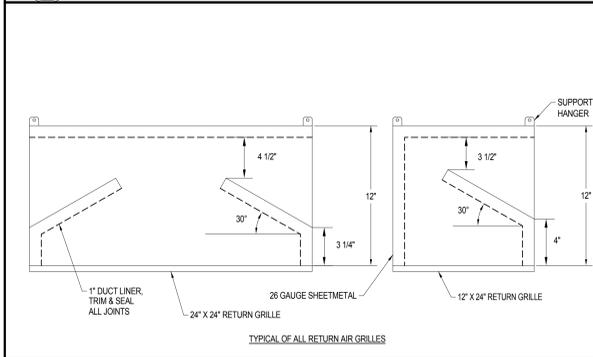
2 TRANSFER AIR DUCT (PLENUM/PLENUM)
NO SCALE



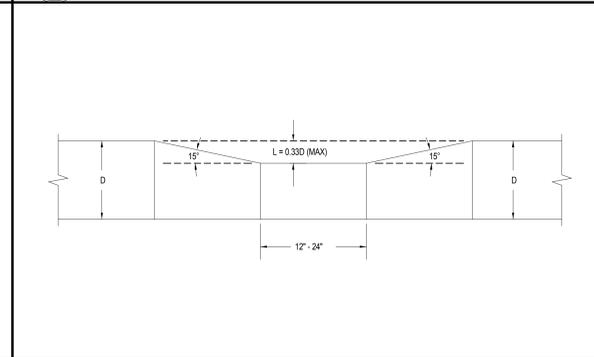
3 TRANSFER AIR DUCT (GRILLE/GRILLE)
NO SCALE



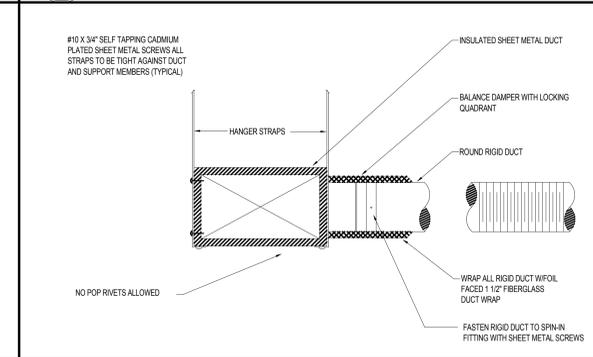
4 UTILITY EXHAUST FAN DETAIL
NO SCALE



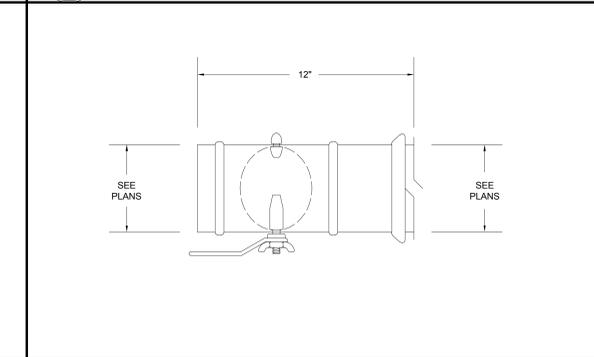
5 RETURN AIR SHEETMETAL SOUND BOOT DETAIL
NO SCALE



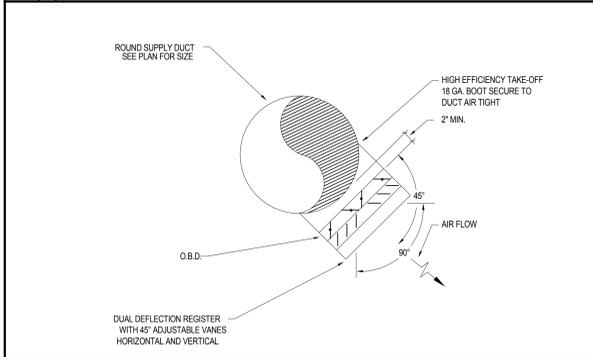
6 TYPICAL DUCT SLICE DETAIL
NO SCALE



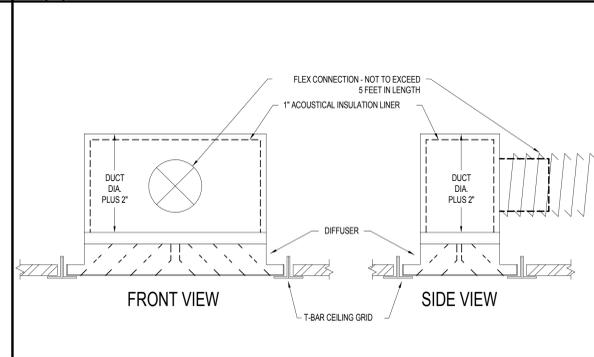
7 FLEX DUCT/SPIN-IN FITTING
NO SCALE



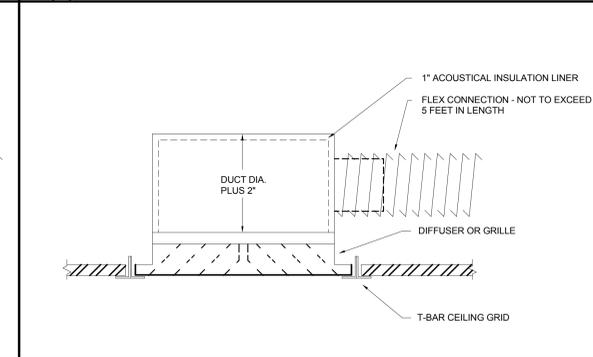
8 TYPICAL MANUAL VOLUME DAMPER DETAIL
NO SCALE



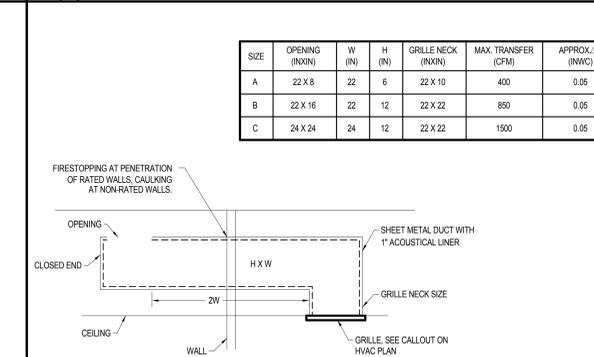
9 DUCT MOUNTED DIFFUSER DETAIL
NO SCALE



10 SLOT DIFFUSER CONNECTION DETAIL
NO SCALE



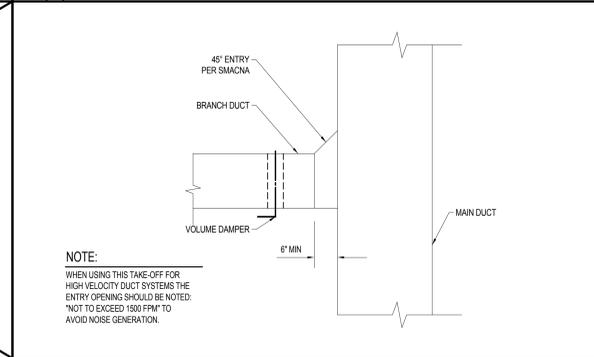
11 DIFFUSER AND GRILLE CONNECTION DETAIL
NO SCALE



12 TRANSFER AIR DUCT (GRILLE/PLENUM)
NO SCALE

NOT USED

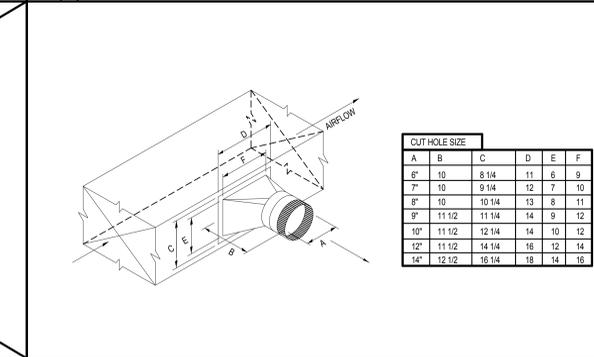
13
NO SCALE



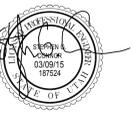
14 TYPICAL DUCT TAKEOFF DETAIL
NO SCALE

NOT USED

15
NO SCALE



16 ROUND MEDIUM PRESSURE DUCT TAKE-OFF & DAMPER
NO SCALE

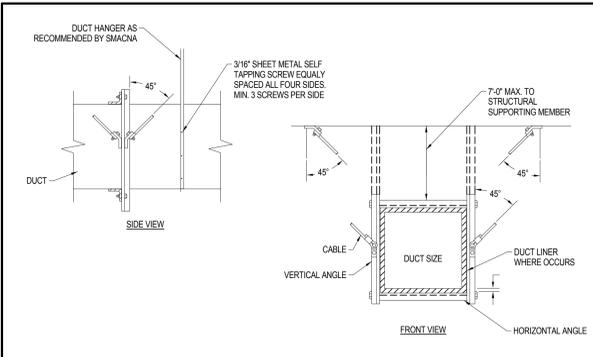


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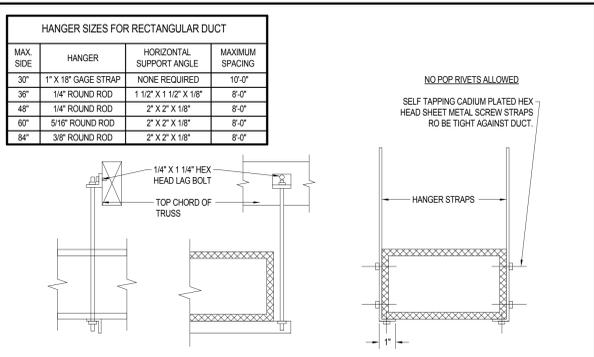
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MECHANICAL DETAILS

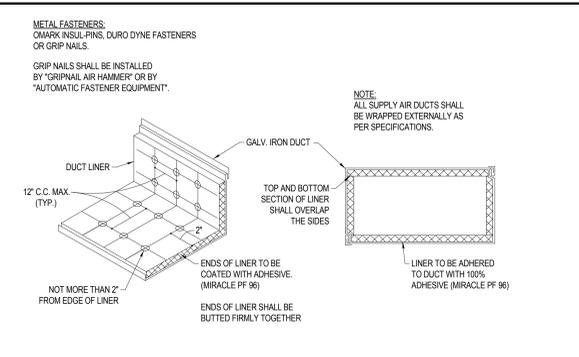
REVISIONS:



1 SEISMIC BRACING FOR RECTANGULAR DUCTS
NO SCALE

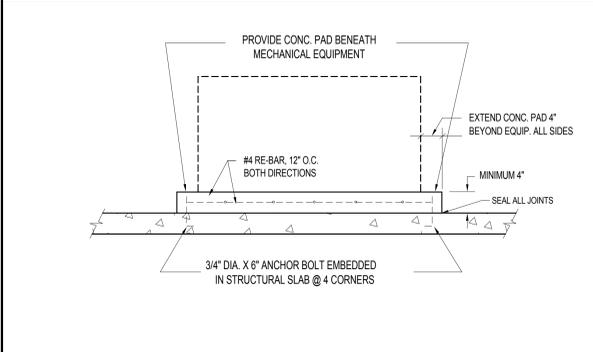


2 DUCT STRAP HANGER DETAIL
NO SCALE

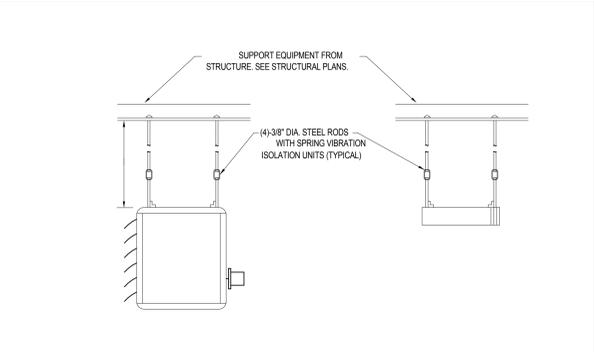


3 DUCT LINER DETAIL
NO SCALE

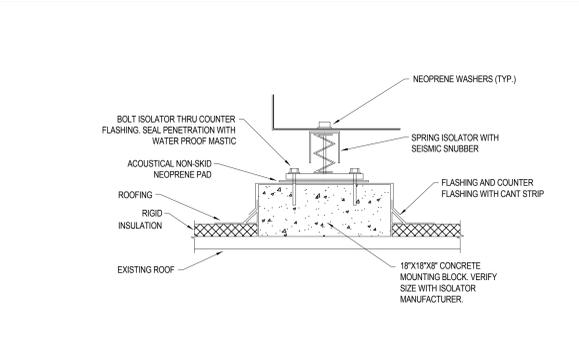
4 DUCT CONSTRUCTION DETAIL
NO SCALE



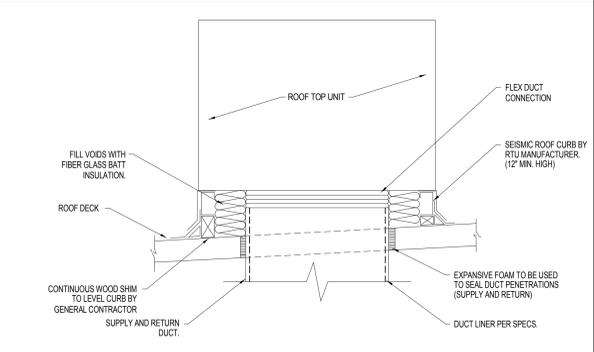
5 HOUSEKEEPING PAD
NO SCALE



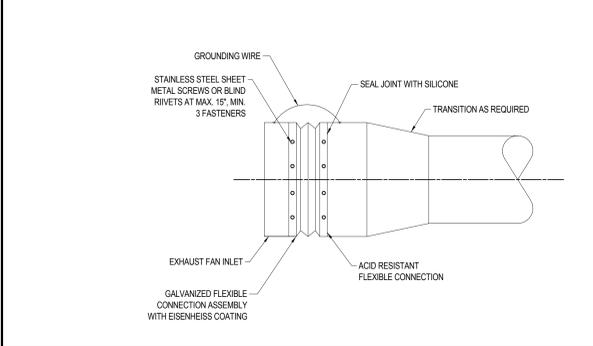
6 UNIT HEATER AND FAN-COIL SUPPORT DETAIL
NO SCALE



7 CONCRETE SUPPORT PAD DETAIL
NO SCALE



8 ROOF TOP UNIT CURB DETAIL
NO SCALE



9 FUME EXHAUST FLEX CONNECTION DETAIL
NO SCALE

NOT USED

NOT USED

NOT USED

10 NO SCALE

11 NO SCALE

12 NO SCALE



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VARIABLE REFRIGERANT HEAT PUMP SCHEDULE (HP)																										
PLAN CODE	SYSTEM SERVED	SOUND DBA	COMPRESSOR	COMPRESSOR #	IEER	FAN		COOLING CAPACITY			HEATING CAPACITY			DIMENSIONS H X W X L (IN)			ELECTRICAL PER MODULE (1)			PIPING CONNECTIONS			MAX INDOOR UNITS	MANUFACTURER & MODEL NO	MAX WEIGHT	REMARKS
						TYPE	CFM	TOTAL BTU/H AT 45°F	EER	POWER KW	TOTAL BTU/H	COP	POWER KW	VOLTAGE/PHASE	MCA	MFS	REFRIGERANT	LIQUID PIPES	SUCTON GAS	GAS PIPES	OUTDOOR UNITS #	MAX INDOOR UNITS				
HP-1	ONE	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-
HP-2	TWO	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-
HP-3	THREE	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-
HP-4	FOUR	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-
HP-5	FIVE	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-
HP-6	SIX	61	INVERTER-DRIVEN SCROLL HERMETIC	1 PER MODULE	16.1	PROP.	6200 PER MODULE	186,400	11.1	16	196,100	3.32	19	65X48X30 PER MODULE	460/3	32	35	R410A	7/8	1-1/8	1-1/8	2	16	MITSUBISHI ELECTRIC PURY-HP192YSXMU-A	1400	-

(1) REFRIGERANT R410A
 (2) PROVIDE 1" CURB STAND
 (3) PROVIDE LOW AMBIENT KIT TO -13°F
 (4) AT DESIGN CONDITIONS AND 99°F OUTDOOR TEMPERATURE TO CONDENSER
 (5) MULTI CONNECTION PIPE KIT VRF P SERIES HR #HPFP28P90U
 (6) RUN CONTROL WIRE TO INDOOR EVAPORATOR
 (7) ROUTE REFRIGERANT LINES FROM HEAT PUMP TO FAN COILS AS REQUIRED. ROUTE AND SIZE REFRIGERANT LINES PER MANUFACTURER'S REQUIREMENTS
 (8) PROVIDE POWER METERING FOR EACH VRF SYSTEM. COORDINATE WITH ELECTRICAL PLANS FOR METER LOCATION AND REQUIREMENTS
 (9) VRF SYSTEM TO BE PROVIDED WITH FACTORY CONTROLS AND BE INTEGRATED WITH THE BMS
 (10) COOLING AND HEATING CAPACITIES AT 4450 FT. ELEVATION
 (11) EACH INDIVIDUAL MODULE REQUIRES A SEPARATE ELECTRICAL CONNECTION. REFER TO MANUFACTURER ELECTRICAL DATA
 (12) WEBER STATE UNIVERSITY STANDARD MANUFACTURER IS MITSUBISHI, NO OTHER MANUFACTURER ALLOWED
 (13) WITH STARTER

AIR DEVICE SCHEDULE																
PLAN CODE	TYPE & DUTY	FACE SIZE	NECK SIZE	CEILING TYPE	MAX CFM	MAX TP (IN WC)	NC LEVEL MAX	MIN THROW (FT) (T50)	4-WAY MIN THROW (T50)	2-WAY MIN THROW (T50)	MANUFACTURER & MODEL NO	REMARKS	PLAN CODE		GRILLE CFM	
													1	2	3	4
1	LINEAR-SUPPLY	24"L	8"	MATCH CEILING	80	0.08	32	12	-	-	TEMPO L.D.	1 @ 1' SLOT				
2	LINEAR-SUPPLY	24"L	8"	MATCH CEILING	160	0.09	33	13	-	-	TEMPO L.D.	2 @ 1' SLOT				
3	LINEAR-SUPPLY	24"L	8"	MATCH CEILING	240	0.10	34	14	-	-	TEMPO L.D.	3 @ 1' SLOT				
4	LINEAR-SUPPLY	24"L	10"	MATCH CEILING	320	0.11	35	15	-	-	TEMPO L.D.	4 @ 1' SLOT				
5	LINEAR-SUPPLY	48"L	8"	MATCH CEILING	160	0.08	32	12	-	-	TEMPO L.D.	1 @ 1' SLOT				
6	LINEAR-SUPPLY	48"L	10"	MATCH CEILING	320	0.09	33	13	-	-	TEMPO L.D.	2 @ 1' SLOT				
7	LINEAR-SUPPLY	48"L	12" L	MATCH CEILING	480	0.10	34	14	-	-	TEMPO L.D.	3 @ 1' SLOT				
8	LINEAR-SUPPLY	48"L	12"	MATCH CEILING	640	0.11	35	15	-	-	TEMPO L.D.	4 @ 1' SLOT				
9	PERFORATED RETURN	24" X 24"	22" X 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS PAR	-				
10	PERFORATED RETURN	24" X 12"	22" X 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS PAR	-				
11	PERFORATED RETURN/EXHAUST	24" X 24"	22" X 22"	MATCH CEILING	1200	0.07	10	-	-	-	TITUS 8F	WITH OBD				
12	PERFORATED RETURN/EXHAUST	24" X 12"	22" X 10"	MATCH CEILING	600	0.09	12	-	-	-	TITUS 8F	-				
13	PERFORATED EXHAUST GRILLE	8" X 8"	6" X 6"	MATCH CEILING	120	0.12	10	-	-	-	TITUS 8F	-				
14	PERFORATED EXHAUST GRILLE	10" X 10"	8" X 8"	MATCH CEILING	225	0.12	12	-	-	-	TITUS 8F	-				
15	PERFORATED EXHAUST GRILLE	12" X 12"	10" X 10"	MATCH CEILING	360	0.12	14	-	-	-	TITUS 8F	-				
16	PERFORATED EXHAUST GRILLE	14" X 14"	12" X 12"	MATCH CEILING	550	0.12	16	-	-	-	TITUS 8F	-				
17	PERFORATED EXHAUST GRILLE	16" X 16"	14" X 14"	MATCH CEILING	750	0.12	17	-	-	-	TITUS 8F	-				
18	PERFORATED EXHAUST GRILLE	20" X 20"	18" X 18"	MATCH CEILING	1250	0.12	19	-	-	-	TITUS 8F	-				
19	PERFORATED EXHAUST GRILLE	24" X 24"	22" X 22"	MATCH CEILING	1900	0.12	21	-	-	-	TITUS 8F	-				
20	PERFORATED EXHAUST GRILLE	32" X 32"	30" X 30"	SURFACE	3600	0.12	24	-	-	-	TITUS 8F	-				
21	RADIAL BLADE DIFFUSER	12"	8"	SURFACE	210	0.14	29	8	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
22	RADIAL BLADE DIFFUSER	15"	10"	SURFACE	330	0.14	29	10	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
23	RADIAL BLADE DIFFUSER	18"	12"	SURFACE	470	0.14	30	12	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
24	RADIAL BLADE DIFFUSER	21"	14"	SURFACE	640	0.14	30	14	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
25	RADIAL BLADE DIFFUSER	24"	16"	SURFACE	840	0.14	30	15	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
26	RADIAL BLADE DIFFUSER	24" X 24"	8"	GRID	210	0.14	29	8	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
27	RADIAL BLADE DIFFUSER	24" X 24"	10"	GRID	330	0.14	29	10	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
28	RADIAL BLADE DIFFUSER	24" X 24"	12"	GRID	470	0.14	30	12	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
29	RADIAL BLADE DIFFUSER	24" X 24"	14"	GRID	640	0.14	30	14	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
30	RADIAL BLADE DIFFUSER	24" X 24"	16"	GRID	840	0.14	30	15	(1)	-	AIR DIFFUSION PRODUCTS DNR	-				
31	ADJUSTABLE LOUVERED	24" X 24"	6"	MATCH CEILING	170	0.13	25	ADJUSTABLE	11	18	TITUS TDCA	18" X 18" CORE				
32	ADJUSTABLE LOUVERED	24" X 24"	8"	MATCH CEILING	310	0.13	27	ADJUSTABLE	14	24	TITUS TDCA	18" X 18" CORE				
33	ADJUSTABLE LOUVERED	24" X 24"	10"	MATCH CEILING	440	0.13	28	ADJUSTABLE	17	26	TITUS TDCA	18" X 18" CORE				
34	ADJUSTABLE LOUVERED	24" X 24"	12"	MATCH CEILING	600	0.14	28	ADJUSTABLE	21	33	TITUS TDCA	18" X 18" CORE				
35	ADJUSTABLE LOUVERED	24" X 24"	14"	MATCH CEILING	800	0.13	29	ADJUSTABLE	24	39	TITUS TDCA	18" X 18" CORE				
36	ADJUSTABLE LOUVERED	24" X 24"	16"	MATCH CEILING	950	0.11	29	ADJUSTABLE	26	41	TITUS TDCA	18" X 18" CORE				
37	PERFORATED FILTER RETURN	24" X 24"	22" X 22"	MATCH CEILING	1200	0.05	17	-	-	-	TITUS 8RF	PROVIDE WITH FILTER AT TIME OF INSTALLATION				
38	PERFORATED FILTER RETURN	24" X 12"	22" X 10"	MATCH CEILING	600	0.06	10	-	-	-	TITUS 8RF	PROVIDE WITH FILTER AT TIME OF INSTALLATION				
39	BAR FLOOR DIFFUSER	8"	6" X L	-	230FT	0.09	35	-	-	-	TITUS CT-480	-				
40	BAR FLOOR DIFFUSER	8"	6" X L	-	300FT	0.08	34	-	-	-	TITUS CT-480	-				
41	THERMALLY CONTROLLED DIFFUSER	24" X 24"	8"	GRID	260	0.15	35	-	-	-	THERMADIFFUSER	2-WAY CORNER				

(1) RECOMMENDED MINIMUM DISTANCE BETWEEN DIFFUSERS IN 9' CEILING
 (2) VERIFY FRAME TYPE OF ALL AIR DEVICES WITH ARCHITECTURAL REFLECTED CEILING PLAN BEFORE ORDERING

VRF FAN COIL INDOOR UNIT SCHEDULE (FC-D, FC-W)																							
PLAN CODE	TYPE	SUPPLY AIR FLOW (CFM) HIGH SPEED	SOUND LEVEL (dBA) HIGH SPEED	VOLT/PH	MCA	MFS (AMPS)	ESP (IN WG)	COOLING EAT DBWB (F)	HEATING EAT (F)	COOLING COIL LAT (F)	HEATING COIL LAT (F)	TOTAL COOLING (BTU/HR)	SENSIBLE COOLING (BTU/HR)	HEATING (BTU/HR)	PIPE CONNECTIONS			MAX. DIMENSIONS				MANUFACTURER & MODEL NO	NOTES
															LIQUID	GAS	DRAIN	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	OPERATING WT. (LBS.)		
FC-D12	DUCTED	370	34	208/1	1.2	15	0.6	80/67	70	55	88	10,100	7,580	10,575	1/4	1/2	1-1/4	29	28	10	51	MITSUBISHI PEFY-P12NMAU-E3	-
FC-D18	DUCTED	600	35	208/1	1.56	15	0.6	80/67	70	55	88	15,130	12,635	16,670	1/4	1/2	1-1/4	29	36	10	58	MITSUBISHI PEFY-P18NMAU-E3	-
FC-D36	DUCTED	1165	41	208/1	3.50	15	0.6	80/67	70	55	88	30,265	25,770	31,330	3/8	5/8	1-1/4	29	55	10	86	MITSUBISHI PEFY-P36NMAU-E3	-
FC-D48	DUCTED	1410	44	208/1	3.51	15	0.6	80/67	70	55	88	40,355	32,626	42,230	3/8	5/8	1-1/4	29	55	10	95	MITSUBISHI PEFY-P48NMAU-E3	-
FC-D54	DUCTED	1480	45	208/1	3.51	15	0.6	80/67	70	55	88	45,400	35,435	47,000	3/8	5/8	1-1/4	29	63	10	86	MITSUBISHI PEFY-P54NMAU-E3	-
FC-W12	WALL	410	45	208/1	0.38	15	0	80/67	70	55	88	10,090	8,080	10,600	1/4	1/2	1-1/4	36	10	12	29	MITSUBISHI PKFY-P12NMU-E2	-
FC-W24	WALL	820	49	208/1	0.63	15	0	80/67	70	55	88	20,175	18,170	21,150	3/8	5/8	1-1/4	46	12	12	46	MITSUBISHI PKFY-P24NMU-E2	-
FC-F24	FLOOR	800	49	208/1	0.63	15	0	80/67	70	55	88	20,175	13,900	21,150	3/8	5/8	1-1/4	46	12	12	46	MITSUBISHI PKFY-P24NEMU-E	-

(1) WITH STARTER
 (2) REFRIGERANT R410A
 (3) PROVIDE WITH THERMOSTAT WITH INTEGRAL OCCUPANCY SENSOR AND INTEGRATE SETBACK (W/ DELAY) INTO CONTROLS SYSTEM. MITSUBISHI MODEL # PAR-U01MADU-G OR EQUAL
 (4) NO FILTER REQUIRED AT DUCTED FAN COIL UNITS
 (5) ALL FILTERS PROVIDE BY SHEET METAL CONTRACTOR LOCATED IN RETURN AIR FILTER GRILLES
 (6) THERMOSTAT/CO WITH OVERRIDE POWERED THROUGH VRF SYSTEM
 (7) COOLING AND HEATING CAPACITIES AT 4450 FT. ELEVATION
 (8) PROVIDE WITH CONDENSATE PUMP AND BACKFLOW PREVENTER
 (9) PROVIDE WITH DUAL SET-POINT CAPABILITY
 (10) PROVIDE BAGNET INTERFACE TO BUILDING AND CAMPUS CONTROLS SYSTEM. CITY/MULTI MODEL # BAC-HD150 OR EQUAL. VRF CONTROLS TO BE WIRED TO THE BAGNET INTERFACE BY VRF INSTALLER. WIRING FROM THE BAGNET INTERFACE TO THE BUILDING CONTROLS SYSTEM IS BY THE CONTROLS CONTRACTOR
 (11) WEBER STATE UNIVERSITY STANDARD MANUFACTURER IS MITSUBISHI, NO OTHER MANUFACTURER ALLOWED
 (12) PROVIDE LOCAL CONTROLLER WITH DISPLAY IN ADDITION TO CONNECTION TO CAMPUS CONTROL SYSTEM

INDOOR UNIT BRANCH CONTROLLER SCHEDULE (BC)																	
PLAN CODE	SYSTEM SERVED	COOLING KW	HEATING KW	MAX INDOOR UNITS	VOLTAGE & PHASE	MCA	MFS	PIPING CONNECTIONS			MAX. DIMENSIONS				MANUFACTURER & MODEL NO	REMARKS	
								INDOOR LIQUID	INDOOR GAS	UNIT HIGH PRESSURE	UNIT LOW PRESSURE	WEIGHT (LBS)	DEPTH (IN)	WIDTH (IN)			HEIGHT (IN)
BC-1	HP-1	0.274	0.137	16	208 1	1.65	15	3/8"	1/2"	5/8"	3/4"	220	21	44	12	MITSUBISHI OMB-P1018NU-HA	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER
BC-2	HP-2	0.274	0.137	16	208 1	1.65	15	3/8"	1/2"	5/8"	3/4"	220	21	44	12	MITSUBISHI OMB-P1018NU-HA	WITH CONDENSATE PUMP AND BACKFLOW PREVENTER
BC-3																	

DEDICATED OUTDOOR AIR SYSTEM SCHEDULE WITH ERV ① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪ ⑫ ⑬																										
PLAN CODE	CFM @ ELEV (SUPPLY/EXHAUST)	EXTERNAL S.P. (IN. WC) (SUP/EXH)	FAN (SUPPLY/EXHAUST)				HEATING				DIMENSIONS				MANUFACTURER & MODEL NO.	ERV										
			FANS #	B.H.P. EACH	H.P. EACH	RPM	VOLTAGE & PHASE	SUPPLY FAN CONTROL	EXHAUST FAN CONTROL	MCA TOTAL	MOP TOTAL	TYPE	INPUT MBH	OUTPUT MBH		EAT/LAT DB	LENGTH (IN.)	WIDTH (IN.)	HEIGHT (IN.)	OPER. WT. (LBS.)	SUMMER/WINTER RECOVERY EFF %	EAT SUMMER/WINTER (DB)	LAT SUMMER/WINTER (DB)	SUPPLY/EXHAUST PD	HEAT EXCHANGER TYPE	MANUFACTURER & MODEL #
DOAS-1	12000/12000	3/3	2/2	6.73/6.54	7.57/5	2580/2558	480/3	MAIN AND BACK UP VFD (FOUR TOTAL)	MAIN AND BACK UP VFD (FOUR TOTAL)	40	45	GAS	800	500	43.5/65	240	116	117	16,000	INOVENT ERU-OU-PL-12000-IF-460	60/61	97/0	83.8/43.5	0.89/0.87	CROSS FLOW FLAT PLATE ALUM	INOVENT H-1-30A-2400

① PROVIDE SEISMIC BRACE SPRING VIBRATION ISOLATORS. ② PROVIDE MODULATING BURNER. ③ DOAS-1 TO CONTROL HEATING TO MAINTAIN ADJUSTABLE DISCHARGE AIR TEMPERATURE. ④ PROVIDE 2" MERV 8 FILTER. ⑤ 14" INSULATED CURB. ⑥ PROVIDE SINGLE POINT CONNECTION. ⑦ RUN CONTINUOUSLY TO MAINTAIN LAB ROOMS ACH. ⑧ ERV SEALED UP TO 3" W.G. TO ELIMINATE CONTAMINATION. ⑨ INTEGRAL DISCONNECT SIZE 60. ⑩ ERV MUST MEET AHRU 1000 CERTIFICATION. ⑪ ERV TO BE MADE FROM CORROSION RESISTANT MATERIAL. ⑫ PROVIDE UNIT WITH VFD AS SCHEDULED ON SHEET MH602. ⑬ HEAT EXCHANGER WITH BYPASS PLENUM.

REVISIONS:

TRACCEL LABORATORY VENTURI SUPPLY VALVE (TSV) STANDARD SHUT-OFF VALVES ①								
PLAN CODE	INLET SIZE (IN)	MIN/MAX INLET SP (IN WC)	MAXIMUM AIRFLOW CFM	MAX SP DROP @ MAX AIRFLOW (IN WC)	MIN. CONTROL AIRFLOW CFM	MAX ABA RADIATED @ 1.5' WC ②	MANUFACTURER MODEL	COMMENTS
10TSV	10"	0.6/3.0	850	0.6	50	44	PHOENIX ACCEL II TSV	
12TSV	12"	0.6/3.0	1,300	0.6	90	45	PHOENIX ACCEL II TSV	
14TSV	14"	0.6/3.0	1,600	0.6	200	42	PHOENIX ACCEL II TSV	
16TSV	24" x 12"	0.6/3.0	2,600	0.6	180	47	PHOENIX ACCEL II TSV	TWO 12" VALVES IN FACTORY ASSEMBLY
18TSV	30" x 15"	0.6/3.0	3,000	0.6	400	49	PHOENIX ACCEL II TSV	TWO 14" VALVES IN FACTORY ASSEMBLY

① PROVIDE WITH PRESSURE SENSOR ② MAXIMUM RC (N) = 40 WITH RECEIVER 7 BELOW VALVE WITH 16 LB/FT³ DENSITY SUSPENDED CEILING AT 9'-4" ABOVE FLOOR.

TRACCEL LABORATORY VENTURI EXHAUST VALVE (TEV) STANDARD SHUT-OFF VALVES ①								
PLAN CODE	INLET SIZE (IN)	MIN/MAX INLET SP (IN WC)	MAXIMUM AIRFLOW CFM	MAX SP DROP @ MAX AIRFLOW (IN WC)	MIN. CONTROL AIRFLOW CFM	MAX ABA RADIATED @ 1.5' WC ②	MANUFACTURER MODEL	COMMENTS
10TEV	10"	0.6/3.0	850	0.6	50	44	PHOENIX ACCEL II TEV	
12TEV	12"	0.6/3.0	1,300	0.6	90	45	PHOENIX ACCEL II TEV	
14TEV	14"	0.6/3.0	1,600	0.6	200	42	PHOENIX ACCEL II TEV	
16TEV	24" x 12"	0.6/3.0	2,600	0.6	180	47	PHOENIX ACCEL II TEV	TWO 12" VALVES IN FACTORY ASSEMBLY
18TEV	30" x 15"	0.6/3.0	3,000	0.6	400	49	PHOENIX ACCEL II TEV	TWO 14" VALVES IN FACTORY ASSEMBLY

① PROVIDE WITH PRESSURE SENSOR ② MAXIMUM RC (N) = 40 WITH RECEIVER 7 BELOW VALVE WITH 16 LB/FT³ DENSITY SUSPENDED CEILING AT 9'-4" ABOVE FLOOR.

EXHAUST FAN SCHEDULE (EF) ① ② ③ ④ ⑤														
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV	ESP @ ELEV	OUTLET VELOCITY	MOTOR			DAMPEN (GRAVITY OR MOTOR)	METHOD OF CONTROL	OPENING SIZE	MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
						BHP	HP	VOLTI/PH						
EF-1	FLUME HOOD	UTILITY SET	830	1	3110 FPM	0.482	0.5	115/1	70	MOTOR	CONTINUOUS	MATCH HOOD DUCT	COOK GN-220	FAN ON FUTURE EMERGENCY POWER

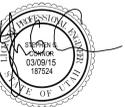
① TWO FANS ON REDUNDANCY REFER TO SEQUENCE OF OPERATION FOR DETAILS ② TUBULAR CENTRIFUGAL INLINE UPBLAST ROOF MOUNTED ARRANGEMENT ③ UTILITY EXHAUST FAN WITH 1/2 MIXING BOX ④ HEAVY DUTY 18" HIGH LAB EXHAUST CURB MODEL TONHLE ⑤ BYPASS PLENUM WITH ISOLATION DAMPERS ⑥ NO OUTDOOR BYPASS AIRFLOW REQUIRED

TRANSFER FAN SCHEDULE (TF)													
PLAN CODE	AREA SERVED	TYPE	CFM @ ELEV	ESP @ ELEV	FAN RPM	MOTOR			DAMPEN (GRAVITY OR MOTOR)	METHOD OF CONTROL	MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
						BHP	HP	VOLTI/PH					
TF-1	MECH 111	INLINE	875	0.3	1050	0.28	0.334	115/1	2	GRAVITY	INTERLOCKED TO HPWH-1.2.3	COOK GN-422	FOR FAN SEQUENCE SEE SHEET MH702
TF-2	DATA 216	INLINE	1340	0.3	900	0.23	0.5	115/1	3.5	GRAVITY	STAT	COOK GN-620	FAN ON FUTURE EMERGENCY POWER

VARIABLE FREQUENCY DRIVE SCHEDULE (VFD)				
PLAN CODE	SERVICE	H.P.	VOLTAGE & PHASE	REMARKS
VFD-1	DOAS-1 SF-1	7.5	480/3	- ①
VFD-2	DOAS-1 SF-2	7.5	480/3	- ①
VFD-3	DOAS-1 EF-1	7.5	480/3	- ①
VFD-4	DOAS-1 EF-2	7.5	480/3	- ①
VFD-5	DOAS-1 SF-1	7.5	480/3	BACK UP VFD ①
VFD-6	DOAS-1 SF-2	7.5	480/3	BACK UP VFD ①
VFD-7	DOAS-1 EF-1	7.5	480/3	BACK UP VFD ①
VFD-8	DOAS-1 EF-2	7.5	480/3	BACK UP VFD ①

① VFD WITH DOAS UNIT SUPPLIED BY DOAS UNIT MANUFACTURER. TO INTEGRATE VFD INTO DOAS WIRING. COORDINATE WITH BUILDING CONTROLS SYSTEM TO CONTROL SWITCH OVER BETWEEN MAIN VFD AND BACKUP VFD.

VAV COOLING ONLY						
PLAN CODE	INLET SIZE (IN)	DESIGN INLET SP (IN WC)	MAX CFM	MAX NC	MAX SP DROP (IN WC)	MIN CONTROL CFM
8C	8	1.0	900	33	0.05	150
10C	10	1.0	1200	34	0.05	230
12C	12	1.0	1600	34	0.05	325
14C	14	1.0	2800	35	0.07	450
16C	16	1.0	3400	35	0.05	580
24C	24	1.0	5000	35	0.05	1400
24/16C	24 x 16	1.0	6200	35	0.05	1050



**WSU DAVIS
CAMPUS D13
REMODEL**

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

MECHANICAL SCHEDULES

WSU		CONT. NO.	PAGE
DIAGRAM SYMBOL LEGEND	DESCRIPTION		
---	POWER WIRE		
---	CONTROL WIRE		
---	REF. PIPE		

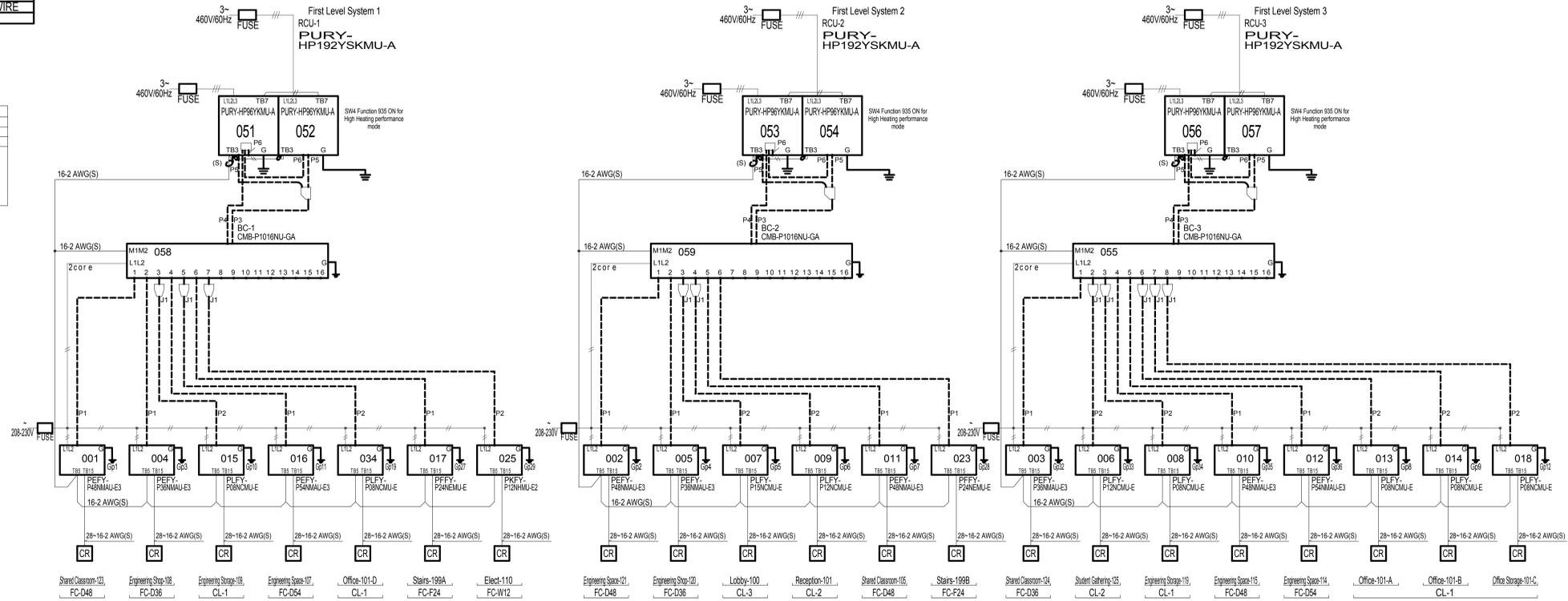
CITY MULTI
SYSTEM SCHEMATIC DWG.

Additional refrigerant charge is needed depending on the size and length of extended piping. Please refer the amount of pre-charge and the formula of calculation which is mentioned on the data book.
1.25mm(1/8 AWG); 1.25mm(1/8 AWG) or more 0.75mm(2/32 AWG); between 0.5mm(1/32 AWG) and 0.75mm(2/32 AWG)

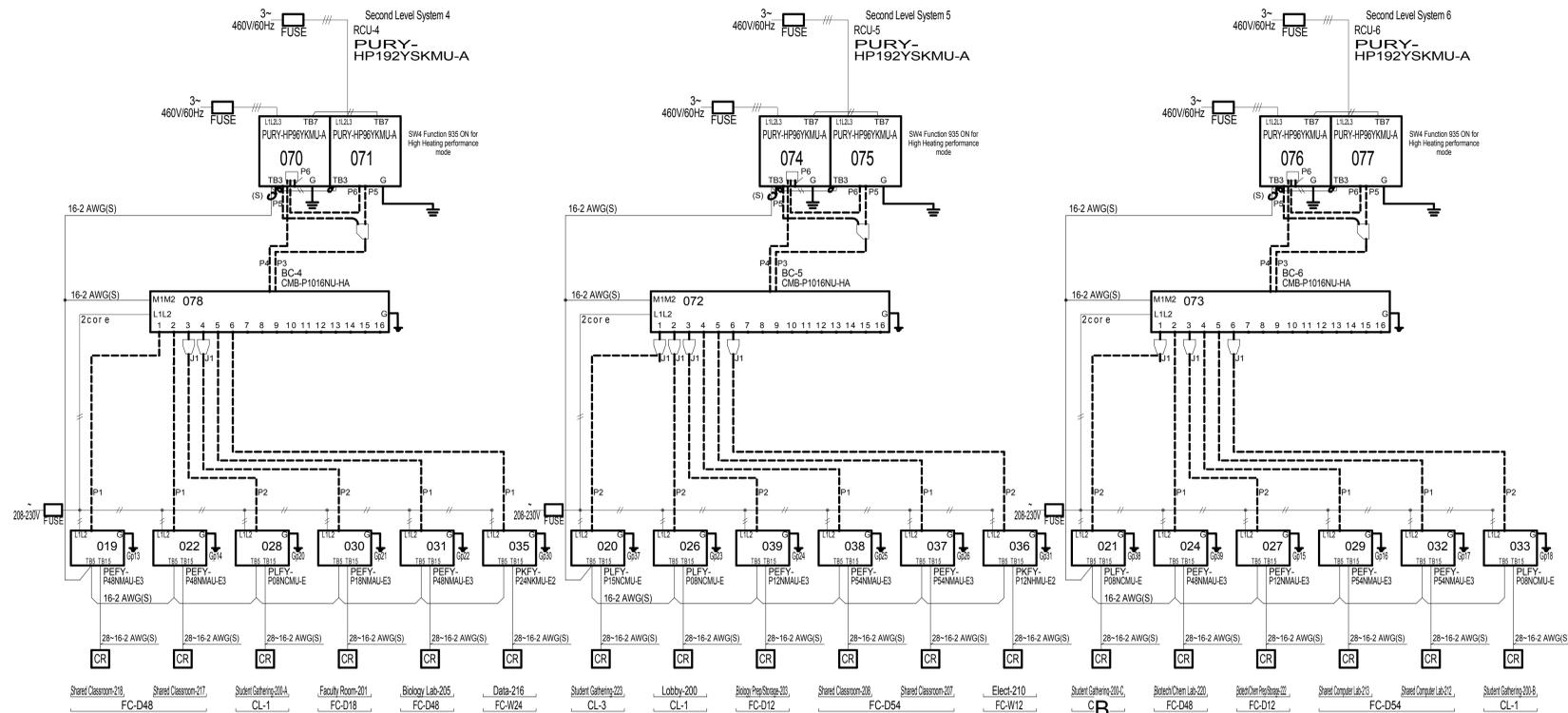
REMARKS
Comments:

PIPING LIST

SYMBOL	BRANCH PIPE MODEL NAME
J1	Reducer
---	PIPE GAS PIPE SIZE
P1	3/8 / 5/8
P2	1/4 / 1/2
P3	7/8 /
P4	3/4 / 1-1/8
P5	3/4 /
P6	1 / 7/8



A VRF SCHMATIC - LEVEL 1



B VRF SCHMATIC - LEVEL 2

REVISIONS

NO.	DESCRIPTION



WSU DAVIS
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DFCM

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BUILDING 450 NORTH 14
STATE STREET SALT
LAKE CITY, UT 84114

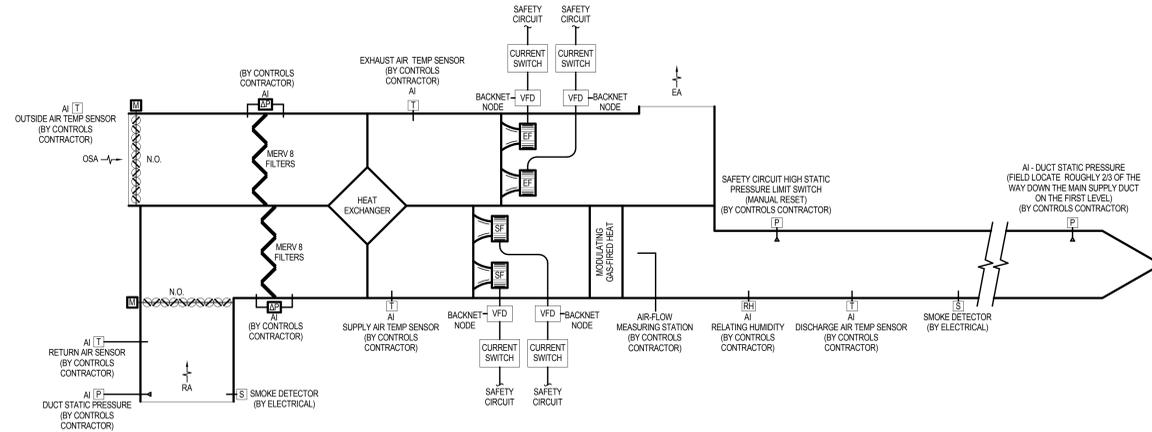
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

VRF SCHEMATICS - LEVEL 1 &
2

REVISIONS:

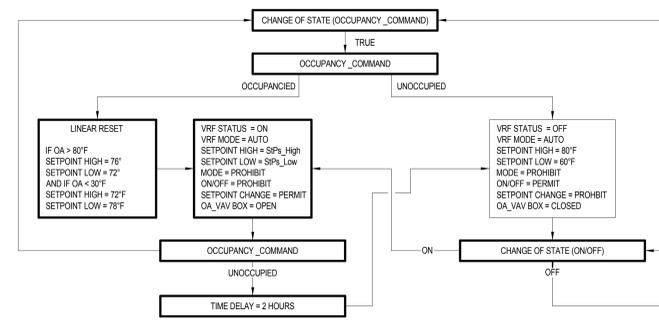
<p>DOAS-1 SEQUENCES OF OPERATION:</p> <p>OCCUPANCY SCHEDULE: THE DOAS SHALL OPERATE DURING BOTH OCCUPIED AND UNOCCUPIED PERIODS IN ORDER TO MAINTAIN LABORATORIES AIRFLOW RATES. THE FOLLOWING HARD-WIRED SAFETY INTERLOCKS SHALL DISABLE THE DOAS: SMOKE DETECTORS IN SUPPLY AND RETURN AIR STREAMS, DUCT STATIC PRESSURE HIGH LIMIT SWITCH, AND FIRE ALARM SYSTEM INTERLOCKS.</p> <p>FAN SPEED CONTROL: 1. INPUT DEVICE: DUCT PRESSURE SENSOR 2. OUTPUT DEVICE: FAN MOTOR VFD 3. ACTION: MAINTAIN DUCT PRESSURE SETPOINT WITH VFD. FAN SHALL START AND INITIALLY RUN AT LOW SPEED. FAN SPEED SHALL MODULATE TO MAINTAIN THE PROGRAMMED SETPOINT AT THE DUCT STATIC PRESSURE SENSOR. THE CONTROL SYSTEM SHALL POLL ALL TERMINAL UNITS THROUGHOUT THE BUILDING TO DETERMINE THE GREATEST DEMAND FOR VENTILATION. THE VENTILATION DEMAND SHALL RESET THE DUCT STATIC PRESSURE SO THAT THE MINIMUM STATIC PRESSURE IS USED TO MAINTAIN THE GREATEST DEMAND FOR VENTILATION. SEE VENTILATION AIR VAV BOX CONTROL SEQUENCE DESCRIPTION ON SHEET MH-702 FOR MORE INFORMATION.</p> <p>DUCT PRESSURE SETPOINT RESET: 1. INPUT DEVICE: VAV CONTROL DAMPERS 2. OUTPUT DEVICE: DUCT PRESSURE SETPOINT 3. ACTION: RESET PRESSURE SETPOINT IN INCREMENTS OF 0.25" WC. A. CONTINUOUSLY LOG DAMPER POSITIONS. ADJUST PRESSURE SETPOINT IF EITHER CONDITION PERSISTS FOR MORE THAN 10 MINUTES. a. REDUCE PRESSURE SETPOINT IF NO DAMPER >90% OPEN b. INCREASE PRESSURE SETPOINT IF ANY DAMPER IS 100% OPEN</p> <p>FILTER BANK PRESSURE: THE CONTROL SYSTEM SHALL MONITOR THE PRESSURE DROP ACROSS EACH FILTER BANK IN THE DOAS. THE INSTANTANEOUS PRESSURE DROP SHALL BE INDICATED ON THE CONTROL SYSTEM GRAPHICAL INTERFACE AS ACTUAL PRESSURE DROP IN INCHES OF WATER COLUMN AND AS ESTIMATED PRESSURE DROP AT FULL AIR FLOW CALCULATED AS FOLLOWS: FULL AIR FLOW CFM/ACTUAL AIR FLOW CFM X ACTUAL PRESSURE DROP. GENERATE AN ALARM CALLING FOR FILTERS TO BE CHANGED ONCE THE PRESSURE DROP MEASURED ACROSS THE FILTERS EXCEEDS 0.85" W.C. (ADJUSTABLE).</p>	<p>HEATING MODE DAT RESET BASED ON HEAT EXCHANGER LEAVING AIR TEMPERATURE: 1. INPUT DEVICE: HEAT EXCHANGER LEAVING AIR TEMP 2. OUTPUT DEVICE: DAT SETPOINT (80°F, ADJUSTABLE) 3. ACTION: RESET DAT SETPOINT IN INCREMENTS OF 5°F CONTINUOUSLY MONITOR HEAT EXCHANGER LEAVING AIR TEMPERATURE. ADJUST DAT SETPOINT IF HEAT EXCHANGER LEAVING AIR TEMPERATURE DROPS BELOW (80°F, ADJUSTABLE)</p> <p>EXHAUST FAN: EXHAUST FAN SHALL MODULATE TO MAINTAIN A DUCT STATIC PRESSURE SETPOINT ACCORDING TO FOLLOWING: 1. INPUT DEVICE: EXHAUST/RELIEF AIR VAV CONTROL DAMPERS 2. OUTPUT DEVICE: DUCT PRESSURE SETPOINT 3. ACTION: RESET PRESSURE SETPOINT IN INCREMENTS OF 0.25" WC. A. CONTINUOUSLY LOG DAMPER POSITIONS. ADJUST PRESSURE SETPOINT IF EITHER CONDITION PERSISTS FOR MORE THAN 10 MINUTES. a. INCREASE PRESSURE SETPOINT IF NO DAMPER >90% OPEN b. REDUCE PRESSURE SETPOINT IF ANY DAMPER IS 100% OPEN</p>	<p>SAFETIES / ALARMS (HARDWIRED):</p> <ol style="list-style-type: none"> SMOKE DETECTOR: <ol style="list-style-type: none"> INPUT DEVICE: RETURN OR SUPPLY SIDE SMOKE DETECTORS (BY ELECTRICAL) OUTPUT DEVICE: FAN VFD ACTION: SHUT DOWN ALL FANS ON SMOKE DETECTION. ALARM AT THE BUILDING AUTOMATION DDC SYSTEM. HIGH PRESSURE: <ol style="list-style-type: none"> INPUT DEVICE: DUCT PRESSURE SENSOR SET AT 5.0" WC (BY 230000 CONTRACTOR) OUTPUT DEVICE: FAN VFD ACTION: SHUT DOWN ALL FANS ON HIGH PRESSURE. ALARM AT THE BUILDING AUTOMATION DDC SYSTEM. FILTER PRESSURE DROP: <ol style="list-style-type: none"> INPUT DEVICE: FILTER BANK DP SENSOR (BY 230000 CONTRACTOR) OUTPUT DEVICE: NONE ACTION: ALARM AT THE BUILDING AUTOMATION DDC SYSTEM WHEN THE PRESSURE DIFFERENTIAL ACROSS THE FILTER BANK REACHES THE HIGH LIMIT OF 0.85" WC (ADJUSTABLE). EQUIPMENT FAILURE: <ol style="list-style-type: none"> MONITOR OPERATION OF SUPPLY FAN AND RELIEF FAN WITH ADJUSTABLE SETPOINT CURRENT SWITCHES. ALARM AT THE BUILDING AUTOMATION DDC SYSTEM WHENEVER A FAILURE IS DETECTED.
--	---	--

GENERAL COMMENTS ON CONTROLS INTERFACE WITH DOAS UNIT:
1) THE CONTROLS CONTRACTOR WILL BE PROVIDING CONTROL OF THE DOAS UNIT. THE DOAS UNIT SHALL INCLUDE A CONTROLS TERMINAL STRIP WITH THE FOLLOWING POINTS:
- SUPPLY FAN ENABLE
- EXHAUST FAN ENABLE
- SUPPLY FAN SPEED SIGNAL
- EXHAUST FAN SPEED SIGNAL
- VFD FAULT
- DOAS SUMMARY ALARM
THE CONTROLS CONTRACTOR SHALL ATTEND TWO COORDINATION MEETINGS WITH DOAS SYSTEM SUPPLIER TO REVIEW CONTROLS SUBMITTALS AND COORDINATE ALL CONTROLS INTERFACE ITEMS TO ENSURE DOAS SYSTEM WILL OPERATE AND BE PROPERLY CONTROLLED.



1 DOAS-1 CONTROL SCHEMATIC

BELOW IS THE LOGIC DIAGRAM THAT THE CONTROLS CONTRACTOR SHOULD FOLLOW FOR EACH INDIVIDUAL VRF. THE HP SHOULD NOT BE COMMANDED ONE WAY OR ANOTHER AS THE INTERNAL PROGRAMMING WILL TAKE CARE OF THIS.



2 VRF SYSTEM CONTROL SCHEMATIC



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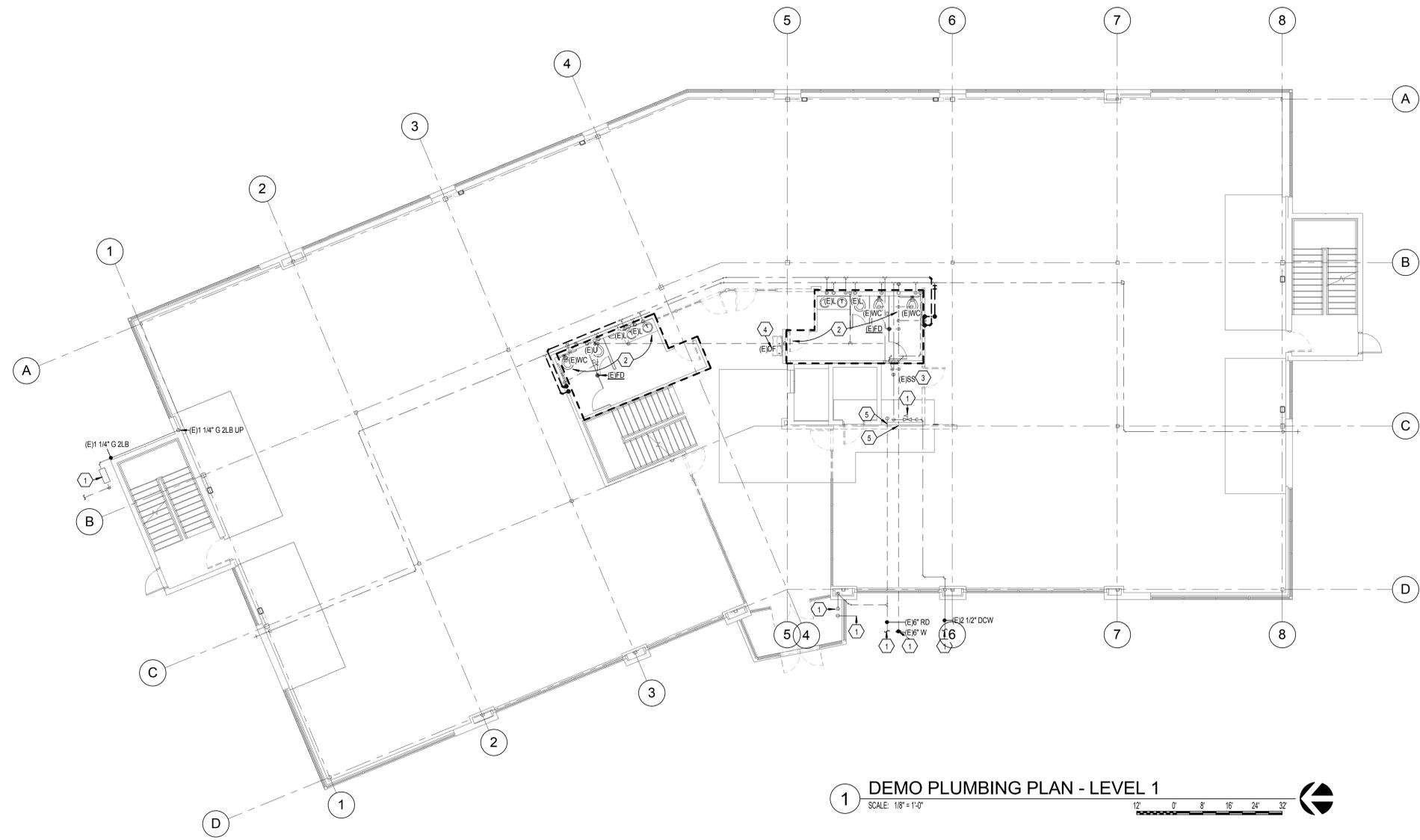
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OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

CONTROL SCHEMATICS

REVISIONS:

NO.	DESCRIPTION



- KEYED NOTES**
- EXISTING TO REMAIN.
 - ALTERNATE #1 REMOVE EXISTING WATER CLOSETS, URINALS, AND LAVATORIES, REPLACE WITH NEW FIXTURES).
 - REMOVE EXISTING DRINKING FOUNTAIN AND ASSOCIATED WASTE, VENT, AND COLD PIPING TO BELOW FLOOR OR ABOVE CEILING AND CAP.
 - PROVIDE SLEEVE FOR EXISTING WASTE PIPE THRU NEW CONCRETE GRADE BEAM. COORDINATE WITH STRUCTURAL WORK AND PROTECT PIPE.

- GENERAL NOTES**
- EXISTING TO REMAIN PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN DARK WITH BOLD DASHED LINE. NEW PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN DARK AND WITH THICK LINE.
 - ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
 - PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.
 - COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES.
 - ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
 - PREVIOUS DEMOLITION WORK HAS OCCURRED TO CEILING AND WALLS REMOVE REMAINING THERMOSTAT WIRE ABOVE CEILING.

1 DEMO PLUMBING PLAN - LEVEL 1
SCALE: 1/8" = 1'-0"



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**DEMO PLUMBING PLAN -
LEVEL 1**

REVISIONS:

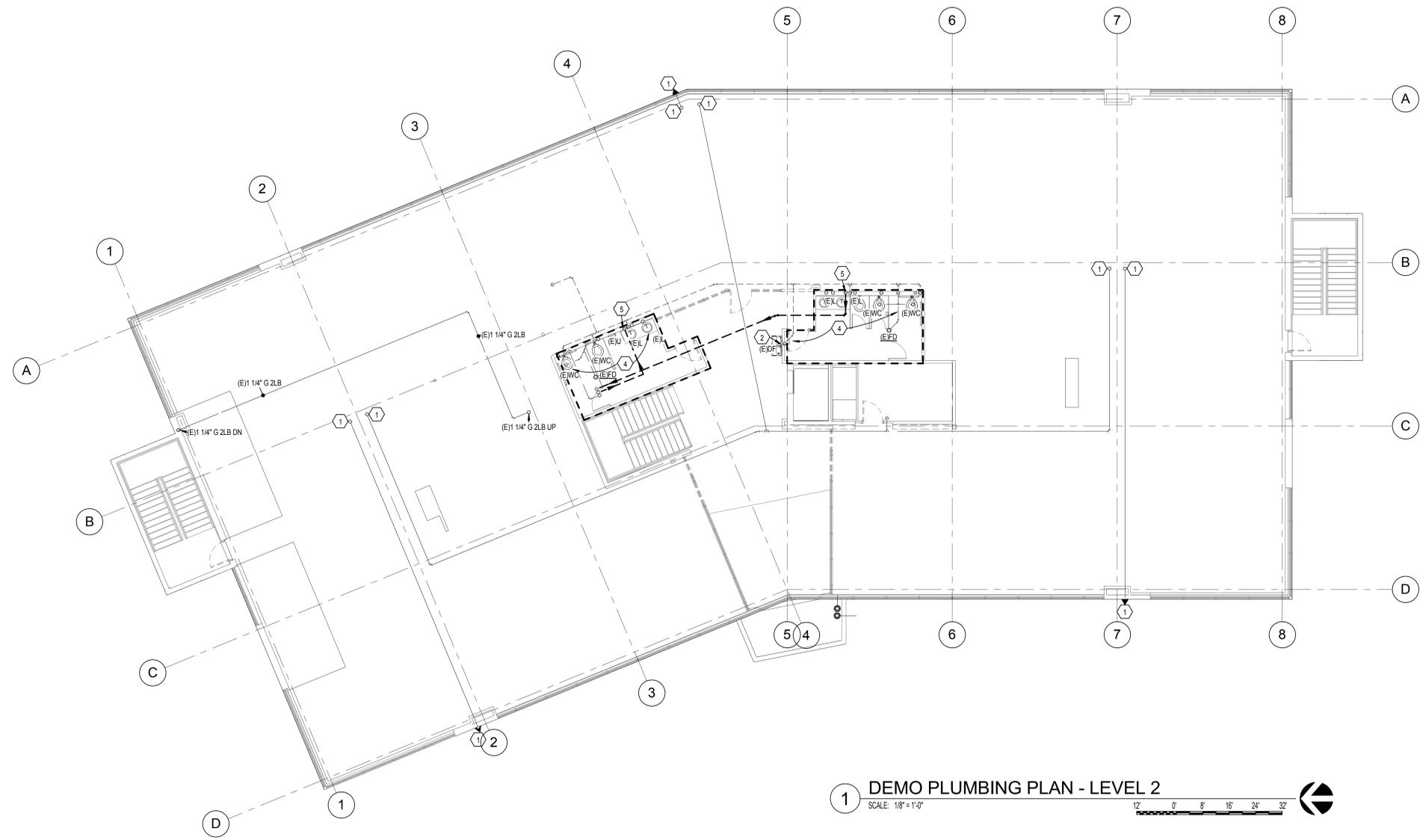
NO.	DESCRIPTION

KEYED NOTES

- 1 EXISTING TO REMAIN.
- 2 REMOVE EXISTING DRINKING FOUNTAIN AND ASSOCIATED WASTE, VENT, AND COLD PIPING TO BELOW FLOOR OR ABOVE CEILING AND CAP.
- 3
- 4 ALTERNATE #1 (REMOVE EXISTING WATER CLOSETS, URINALS, AND LAVATORIES, REPLACE WITH NEW FIXTURES).
- 5 CAP EXISTING HOT WATER PIPE IN WALL ABOVE LAST CONNECTION.

GENERAL NOTES

- A. EXISTING TO REMAIN PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN LIGHT AND WITH A THIN LINE. DEMOLITION PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN DARK WITH BOLD DASHED LINE. NEW PIPE, PIPE ACCESSORIES AND PLUMBING IS SHOWN DARK AND WITH THICK LINE.
- B. ALL WASTE, ROOF DRAINS AND OVERFLOW DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- C. PROVIDE ACCESS DOORS TO ALL MIXING VALVES, TRAP PRIMERS, SHUTOFF VALVES, ETC.
- D. COORDINATE PLUMBING PIPE ROUTING AND LOCATION WITH ALL TRADES.
- E. ALL CONDENSATE DRAINS TO BE RUN AT 1/8" PER FOOT SLOPE UNLESS NOTED OTHERWISE.
- F. PREVIOUS DEMOLITION WORK HAS OCCURRED TO CEILING AND WALLS REMOVE REMAINING THERMOSTAT WIRE ABOVE CEILING.



1 DEMO PLUMBING PLAN - LEVEL 2
SCALE: 1/8" = 1'-0"
12' 0' 8' 16' 24' 32'



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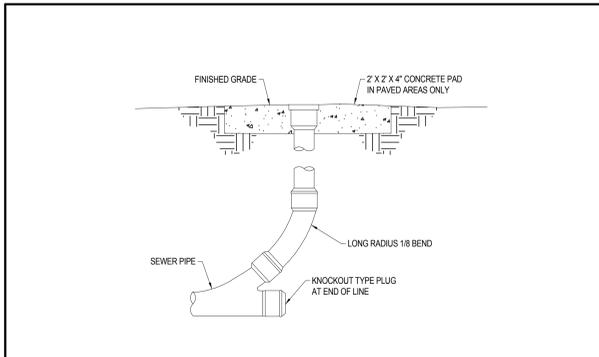
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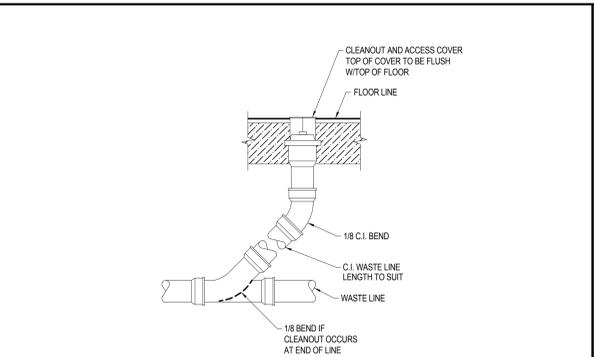
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ISSUED DATE: 03/09/2015

**DEMO PLUMBING PLAN -
LEVEL 2**

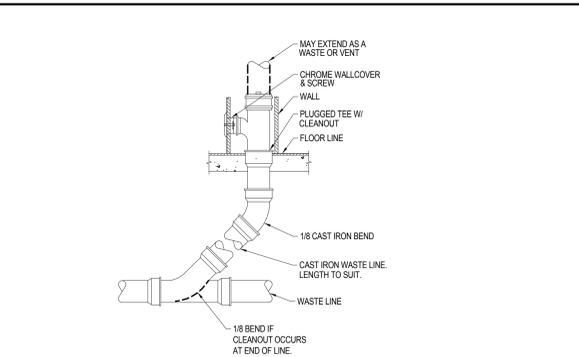
REVISIONS:



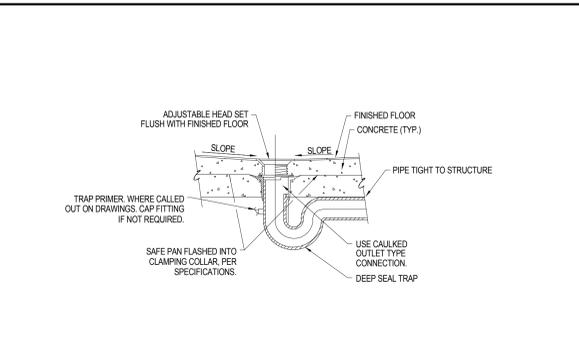
1 SURFACE CLEANOUT DETAIL
NO SCALE



2 FLOOR CLEANOUT DETAIL
NO SCALE

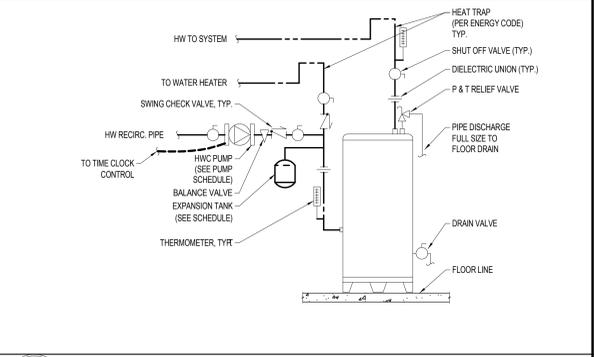


3 WALL CLEANOUT DETAIL
NO SCALE

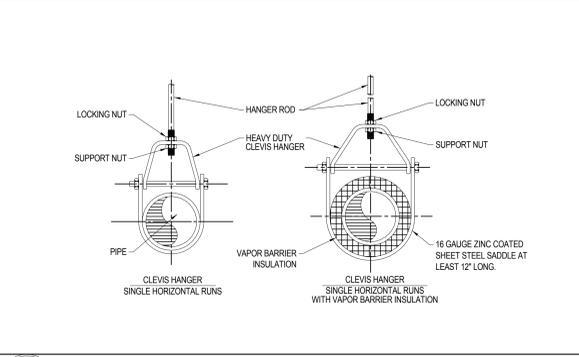


4 TYPICAL FLOOR DRAIN IN SUSPENDED SLAB DETAIL
NO SCALE

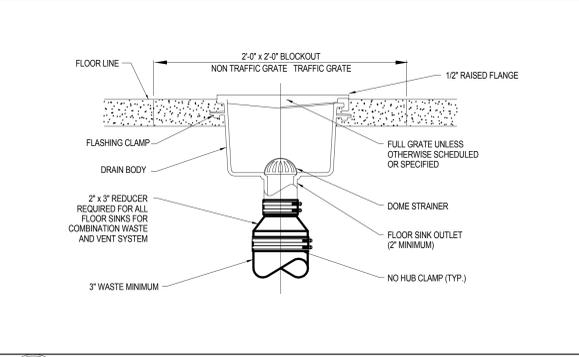
NOT
USED



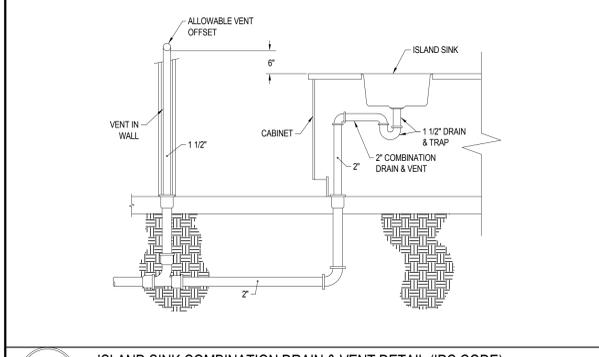
6 ELECTRIC WATER HEATER PIPING DETAIL
NO SCALE



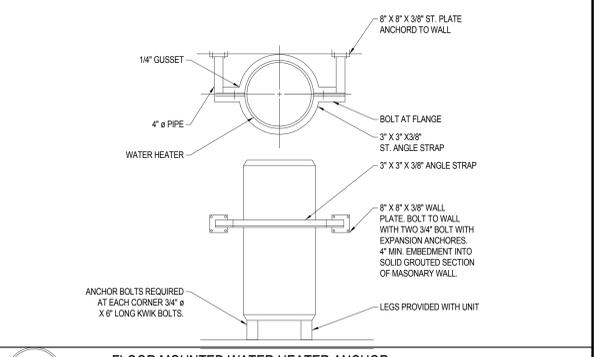
7 CLEVIS PIPE HANGER DETAIL
NO SCALE



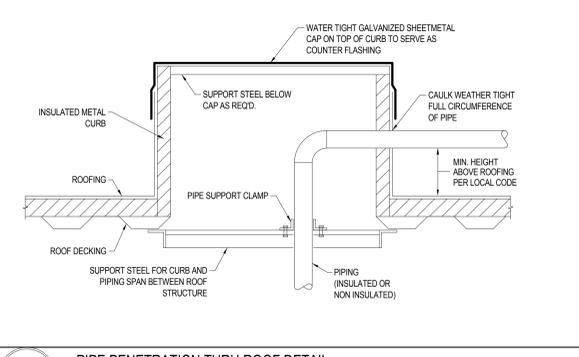
8 FLOOR SINK DETAIL
NO SCALE



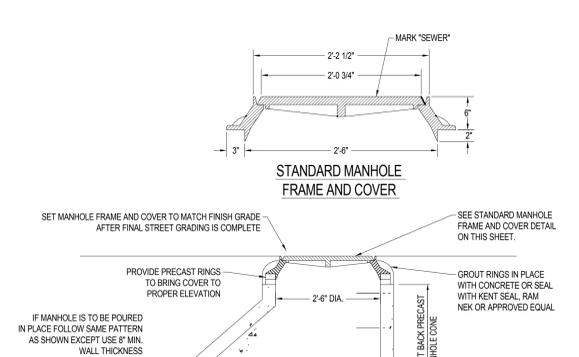
9 ISLAND SINK COMBINATION DRAIN & VENT DETAIL (IPC CODE)
NO SCALE



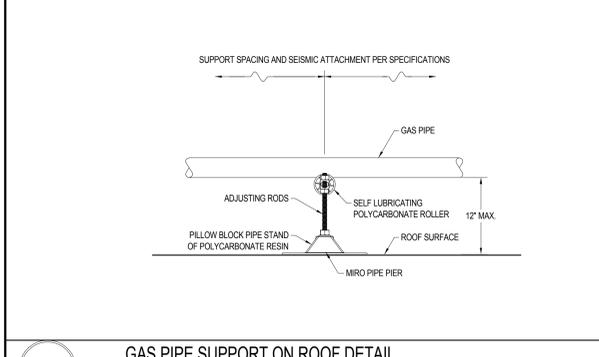
10 FLOOR MOUNTED WATER HEATER ANCHOR
NO SCALE



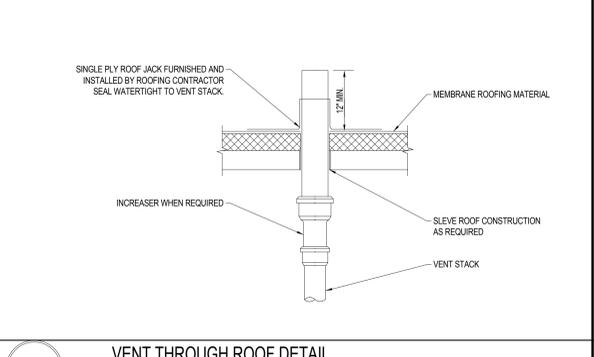
11 PIPE PENETRATION THRU ROOF DETAIL
NO SCALE



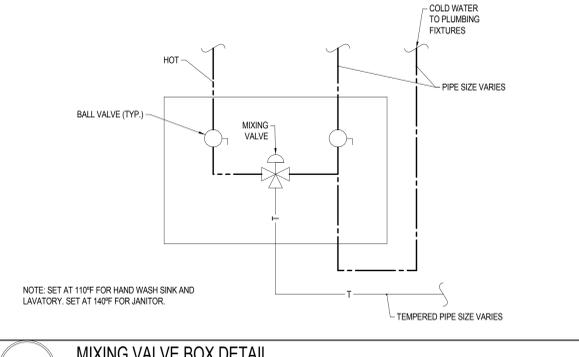
12 STANDARD MANHOLE FRAME AND COVER
NO SCALE



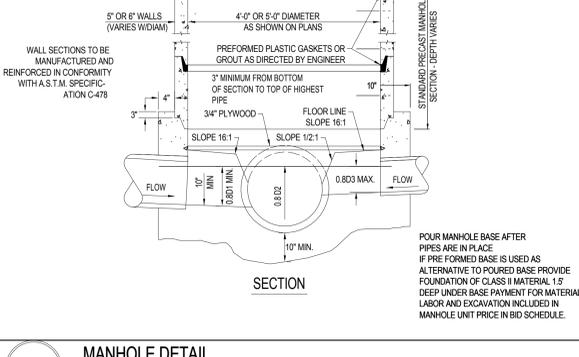
13 GAS PIPE SUPPORT ON ROOF DETAIL
NO SCALE



14 VENT THROUGH ROOF DETAIL
NO SCALE



15 MIXING VALVE BOX DETAIL
NO SCALE



16 MANHOLE DETAIL
NO SCALE



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PLUMBING DETAILS

REVISIONS:

HYBRID ELECTRIC HEAT PUMP WATER HEATER SCHEDULE (HPWH) ①													
PLAN CODE	HP TOTAL HEATING CAP (MBH)	ENERGY EFFICIENCY	CAP (GAL)	RECOVERY @ 90° F (GPH)	ELECTRIC ELEMENT INPUT (KW)	TEMP RISE (°F)	MAX DIMENSIONS				MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS
							DIA (IN)	HEIGHT (IN)	VOL/1 FH	AMPS			
HPWH-1	8.7	2.45	50	21	4.5	90	21	76	2081	24	650	RHEEM HB50RH	-
HPWH-2	8.7	2.45	50	21	4.5	90	21	76	2081	24	650	RHEEM HB50RH	-
HPWH-2	8.7	2.45	50	21	4.5	90	21	76	2081	24	650	RHEEM HB50RH	-

① AMBIENT TEMPERATURE OPERATING RANGE (37°-120°)

MIXING VALVE SCHEDULE (MV)						
PLAN CODE	MIN GPM	MAX GPM	INLET SIZE	OUTLET SIZE	MANUFACTURER & MODEL NO	REMARKS
MV-1	0.25	5	3/8"	3/8"	LEONARD 170	1.2
MV-2	0.25	12	1/2"	1/2"	LEONARD 270	1.2

① PROVIDE STAINLESS STEEL STRAINER, PORTS AND INTERNALS. ② ASSE 1070

DOMESTIC HOT WATER RECIRCULATION PUMP SCHEDULE ①									
PLAN CODE	DUTY	GPM	FEET OF HEAD	PUMP RPM	MOTOR		MANUFACTURER & MODEL NO	REMARKS	
					H.P.	VOLTAGE & PHASE			
DCP-1	DOMESTIC HOT WATER RECIRC.	2	20	3250	140	115/1	TACO 006-84-PNP-IPC	IN-LINE BRONZE	

① PROVIDE PLUG END POWER CORD.

PLUMBING EXPANSION TANK SCHEDULE (PET)										
PLAN CODE	SYSTEM SERVED	WATER TEMP (°F)	TANK VOL (GAL)	ACCEPTANCE FACTOR	PRE-CHARGE (PSI)	MAX DIMENSIONS			MANUFACTURER & MODEL NO	REMARKS
						DIA (IN)	H (IN)	OPERATING WT (LBS)		
PET-1	DOMESTIC HOT WATER	140	2.1	0.9	40	10	10.5	22	AMTROL THERMA-TROL ST-5-C	PROVIDE WITH POTABLE WATER BLADDER

NATURAL GAS PRESSURE REGULATOR SCHEDULE (REG)						
PLAN CODE	TYPE	INLET PRESSURE (PSIG)	OUTLET PRESSURE (OD: SQ IN)	LOAD (BTUH)	GAS DELIVERY (CFH)	REMARKS
REG-1	SELF-OPERATING SPRING LOADED DIAPHRAGM	2	4	21,000	24	-
REG-2	SELF-OPERATING SPRING LOADED DIAPHRAGM	2	4	21,000	24	-
REG-3	SELF-OPERATING SPRING LOADED DIAPHRAGM	2	4	800,000	900	-

PLUMBING FIXTURE SCHEDULE							
PLAN CODE	DESCRIPTION	ROUGH-IN SIZE					REMARKS
		C.W.	H.W.	TEMPERED	WASTE	VENT	
WC-1A	WATER CLOSET, ADA COMPLIANT, WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.28 GPF	1"	-	-	3"	2"	KOHLER "KINGSTON" K-4325 SEAT, OLSONITE #100CS5 FLUSH VALVE, ZURN Z800PL-HET COLOR: WHITE SEE ARCH DRAWINGS FOR MOUNTING HEIGHT
WC-2	WATER CLOSET, STANDARD WALL MOUNT, MANUAL FLUSH VALVE, SIPHON JET, VITREOUS CHINA 1.28 GPF	1"	-	-	3"	2"	KOHLER "KINGSTON" K-4325 SEAT, OLSONITE #100CS5 FLUSH VALVE, ZURN Z800PL-HET COLOR: WHITE SEE ARCH DRAWINGS FOR MOUNTING HEIGHT
U-1	URINAL, ADA COMPLIANT, VITREOUS CHINA, 4" CENTERSET, CHROME WING HANDLE, FAUCET WITH GRID DRAIN, 0.5 GPM FLOW	3/4"	-	-	2"	1 1/2"	KOHLER "BARDON" K-4804-ET FLUSH VALVE, ZURN Z8003AV-ULF COLOR: WHITE SEE ARCH DRAWINGS FOR MOUNTING HEIGHT
L-1	COUNTERMOUNT OVAL LAVATORY, VITREOUS CHINA, 4" CENTERSET, CHROME WING HANDLE, FAUCET WITH GRID DRAIN, 0.5 GPM FLOW	1/2"	-	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD "RONDALYN" 0491.019 FAUCET, MOEN 8211
L-2	WALL MOUNT, RECTANGULAR LAVATORY, VITREOUS CHINA, 4" CENTERSET, CHROME WING HANDLE FAUCET WITH GRID DRAIN, 0.5 GPM FLOW	1/2"	-	1/2"	1 1/2"	1 1/2"	AMERICAN STANDARD "LUCERNE" 0355.012 FAUCET, MOEN 8211
S-1	SINGLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, UNDER COUNTER MOUNT SINK, GOOSENECK SWING SPOUT WITH WING HANDLES, 0.5 GPM 19 GA.	1/2"	1/2"	-	1 1/2"	1 1/4"	BOWL: ELKAY EGU42819R. PROVIDE OPENING FOR EEW-2 MOUNTING ON THE SINK. FAUCET: MOEN CAB80 STRAINER: ELKAY UK-35. OR EQUAL. BOWL DEPTH: 12"
S-2	DOUBLE COMPARTMENT, RECTANGULAR STAINLESS STEEL, COUNTER MOUNT SINK, GOOSENECK SWING SPOUT WITH WING HANDLES, 0.5 GPM 19 GA.	1/2"	1/2"	-	1 1/2"	1 1/4"	BOWL: ELKAY LR 3321 FAUCET: MOEN CAB80 STRAINER: ELKAY UK-35. OR EQUAL. BOWL DEPTH: 12"
SS-1	SERVICE SINK, ENAMELED CAST IRON, WITH RIM GUARD, 3" GRID DRAIN AND FAUCET WITH VACUUM BREAKER, STOPS, TOP BRACE, CHROME FINISH.	3/4"	3/4"	-	3"	2"	SINK: KOHLER K-8710 FAUCET: KOHLER K-8907
EWIC-1	ADA COMPLIANT, BARRIER FREE, STAINLESS STEEL, SURFACE MOUNT ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION	3/8"	-	-	1 1/2"	1 1/4"	ELKAY #L2STL8VSLK (ADA) B LEVEL FILTERED COOLER WITH BOTTLE FILLING STATION, 15 AMP, 115 VOLT, 60 HZ, SINGLE PHASE.
FD-1	FLOOR DRAIN	-	-	-	SEE PLANS	1 1/2"	J.R. SMITH MANUFACTURING COMPANY FIG. 2008Y-NB-U. DUCO CAST IRON FLOOR DRAIN. SEE PLANS FOR OUTLET SIZE. STRAINER GRATE MUST BE HEEL PROOF. PROVIDE WITH TRAP GUARD, OR EQUAL.
FD-2	FLOOR DRAIN (ACID RESISTANT)	-	-	-	SEE PLANS	1 1/2"	J.R. SMITH MANUFACTURING COMPANY FIG. DX-3027T-U. CAST IRON BODY WITH ACID RESISTANT COATED INTERIOR. SEE PLANS FOR OUTLET SIZE. STRAINER GRATE MUST BE HEEL PROOF. PROVIDE WITH TRAP GUARD, OR EQUAL.
FS-1	FLOOR SINK	-	-	-	SEE PLANS	1 1/2"	JAY R. SMITH SERIES 3100, ACID RESISTANT WITH TRAP GUARD AND DEEP SEAL TRAP.
SA-1	SHOCK ARRESTOR	3/4"	3/4"	-	-	-	PRECISION PLUMBING PRODUCTS SC-750. VANDAL PROOF OR EQUAL.
MH-1	MANHOLE	-	-	-	-	-	80" DURA-CRETE. PROVIDE HEAVY DUTY MANHOLE COVER AND EXTENSION RINGS TO GRADE.
LSP-1	ISMET - LABORATORY SERVICE PANEL WITH SOLENOID ASSEMBLY, 120V 1/2 VOLT, 1.5 AMP	-	-	-	-	-	ISMET MODEL #LSP-4211-3-U GRAY PO ENCLOSURE WITH STAINLESS STEEL DOOR, FLUSH MOUNT 18"X18"X6" STANDARD ASSEMBLY WITH GROMMETS, 120V 1/2 VOLT.
GT-1	DECK MOUNT GAS TURRET WITH VALVE	-	-	-	-	-	TURRET: SINGLE OUTLET ZURN AQUA SPEC Z88000 VALVE: POLISHED CHROME PLATED BRASS ZURN AQUA SPEC Z88019-CS.
ESEW-1	EMERGENCY SHOWER WITH EYE WASH STATION WITH EMERGENCY THERMOSTATIC MIXING VALVE.	-	-	1 1/4"	-	-	BRADLEY S19-310FSS BRADLEY S19-2100 SET TEPID WATER TEMP @ 80°F
IMB-1	ICE MAKER BOX	1/2"	-	-	-	-	OATEY - MODEL 38875 - 6" S.S. HOSE AND VALVE
EEW-1	EMERGENCY EYE WASH STATION WITH EMERGENCY THERMOSTATIC MIXING VALVE, BARRIER FREE CABINET CONCEALED SWING DOWN EYE WASH	-	-	1 1/4"	2"	1 1/2"	BRADLEY S19294H8 BRADLEY S19-2000 EY8 SET TEPID WATER TEMP @ 80°F
EEW-2	DECK MOUNTED, DRENCH HOSE EMERGENCY EYE WASH STATION WITH EMERGENCY THERMOSTATIC MIXING VALVE AND IN-LINE STRAINER	-	-	1/2"	2"	-	GUARDIAN G5022BP SET TEPID WATER TEMP @ 80°F



**WSU DAVIS
CAMPUS D13
REMODEL**

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

PLUMBING SCHEDULES

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-201 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	NEW LINE: MEDIUM LINE.
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
WIRING METHODS	
	WIRING.
	WIRING TURNED UP OR TOWARDS OBSERVER.
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" =: CATV = CABLE TELEVISION CTV = NURSE CALL CTV = CLOSED CIRCUIT P = POWER TELEVISION T = TELEPHONE FA = FIRE ALARM S = SOUND TV = TELEVISION
	OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB: DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT (CC) SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	ADA ACCESS PUSH PLATE.
	JUNCTION BOX.
	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
	PULL BOX.
	WIRE BASKET TRAY.
	EARTH GROUND (ONE-LINE DIAGRAM).
	JUNCTION BOX, CEILING.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
WIRING DEVICES	
	RECEPTACLE, DUPLEX, NEMA 5-20R.
	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN, CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WET LABEL, "WEATHERPROOF USE": NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADPLEX: NEMA 5-20R.
	RECEPTACLE, QUADPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	MULTI-OUTLET ASSEMBLY: NEMA 5-20R.
	DROP CORD. SEE DETAIL.
	FLUSH FLOOR BOX. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	POWER POLE. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	FLUSH FIRE RATED POKE THRU. "F" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	SWITCH, DIMMER.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, THREE-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, FOUR-WAY ("X" INDICATES FIXTURES CONTROLLED).
	SWITCH, TIMER OPERATED.
	SWITCH, WEATHERPROOF.
	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	METER.
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER. PUSHBUTTON, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	LIGHTING CONTROL STATION.
	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
FIRE ALARM	
	FIRE SYSTEM ANNUNCIATOR.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM NOTIFICATION POWER SUPPLY.
	VOICE EVACUATION CABINET W/ MICROPHONE.
	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	INDICATOR LAMP.
	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	SMOKE DAMPER.
	FIRE AND SMOKE DAMPER.
	DETECTOR, CARBON MONOXIDE.
	ALARM, SPEAKER/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, SPEAKER, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO UNSWITCHED PORTION OF CIRCUIT: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
	EMERGENCY.
	NIGHT LIGHT: DO NOT SWITCH.
	EGRESS DIRECTION ARROW (EXIT SIGNS).
	LOW VOLTAGE LIGHTING TRANSFORMER.
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	COMBINATION VACANCY/OCCUPANCY SENSOR, WALL SWITCH TYPE: DUAL TECHNOLOGY, OPERATION FIELD-SELECTABLE
	PHOTOCELL.
	OCCUPANCY/VACANCY SENSOR, DUAL TECHNOLOGY, WITH BUILT-IN DAYLIGHT HARVESTING SENSOR, CONTINUOUS 0-10V DIMMING, CEILING.
	ABOVE CEILING ROOM CONTROLLER (LIGHTING CONTROL)
STRUCTURED CABLING	
	WIRELESS ACCESS POINT, CEILING MOUNTED.
	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES)
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.
	DATA CABLE, CATEGORY 6 (ONE-LINE DIAGRAM).
	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
	GENERATOR, ANNUNCIATOR (ONE-LINE DIAGRAM).
	GENERATOR, POWER (ONE-LINE DIAGRAM).
	METER.
	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER. PUSHBUTTON, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
	DISTRIBUTION PANEL OR SWITCHBOARD.
	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
	LIGHTING CONTROL STATION.
	DIMMING ENTRY STATION OR CONTROL STATION, FLUSH MOUNTED.
	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
FIRE ALARM	
	FIRE SYSTEM ANNUNCIATOR.
	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
	FIRE ALARM NOTIFICATION POWER SUPPLY.
	VOICE EVACUATION CABINET W/ MICROPHONE.
	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
	CONTROL MODULE.
	MONITOR MODULE.
	FIRE ALARM MANUAL PULL STATION.
	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	INDICATOR LAMP.
	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, HORN/SPEAKER, WEATHERPROOF.
	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	SMOKE DAMPER.
	FIRE AND SMOKE DAMPER.
	DETECTOR, CARBON MONOXIDE.
	ALARM, SPEAKER/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, SPEAKER, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
TECHNOLOGY SYSTEMS	
	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS.
	CONTROL CABLE
	GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN
	INSULATED MICROPHONE CABLE
	SPEAKER CABLE, 70 VOLT SYSTEM
	SPEAKER CABLE, 8 OHM SYSTEM
	SPEAKER, CEILING MOUNTED.
	EQUIPMENT CABINET.
	SCREEN, PROJECTION, CEILING MOUNTED.
	PROJECTOR, CEILING MOUNTED.
	3-GANG BOX, FOR OWNER PROVIDED EXTRON CONTROL PANEL.
CLOCK	
	CLOCK.
CCTV	
	CCTV MONITOR.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
	CCTV CAMERA WITH PAN, TILT AND ZOOM.
	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
	ACCESS CONTROL HEADEND EQUIPMENT.
	SECURITY CONTROL PANEL.
	INTRUSION DETECTION HEADEND EQUIPMENT.
	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
	CARD READER.
EMERGENCY TELEPHONES	
	HANDS-FREE EMERGENCY TELEPHONE W/DIALER, FLUSH MOUNTED, VIKING MODEL E-1600-30A

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
TECHNOLOGY SYSTEMS	
	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS.
	CONTROL CABLE
	GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN
	INSULATED MICROPHONE CABLE
	SPEAKER CABLE, 70 VOLT SYSTEM
	SPEAKER CABLE, 8 OHM SYSTEM
	SPEAKER, CEILING MOUNTED.
	EQUIPMENT CABINET.
	SCREEN, PROJECTION, CEILING MOUNTED.
	PROJECTOR, CEILING MOUNTED.
	3-GANG BOX, FOR OWNER PROVIDED EXTRON CONTROL PANEL.
CLOCK	
	CLOCK.
CCTV	
	CCTV MONITOR.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
	CCTV CAMERA WITH PAN, TILT AND ZOOM.
	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
	SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.
	ACCESS CONTROL HEADEND EQUIPMENT.
	SECURITY CONTROL PANEL.
	INTRUSION DETECTION HEADEND EQUIPMENT.
	CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.
	CARD READER.
EMERGENCY TELEPHONES	
	HANDS-FREE EMERGENCY TELEPHONE W/DIALER, FLUSH MOUNTED, VIKING MODEL E-1600-30A

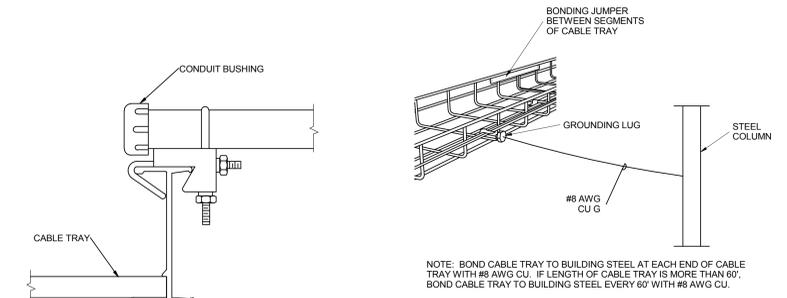
ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
IP	SINGLE POLE	LRA	LOCKED ROTOR AMPS
1PH	SINGLE-PHASE	LTG	LIGHTING
3C	THREE-CONDUCTOR	LV	LOW VOLTAGE
4W	FOUR-WIRE	MAX	MAXIMUM
A	ABOVE COUNTER	MC	METAL CLAD
AC	ARMORED CABLE	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AIC	AMPERE INTERRUPTING CAPACITY	MCP	MOTOR CIRCUIT PROTECTION
ALUM	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL
AMP	AMPERE	MGT	MOTOR GENERATOR
ANN	ANNUNCIATOR	MH	MANHOLE
AP	ACCESS POINT (WIRELESS DATA)	MIN	MINIMUM
ASC	AMPS SHORT CIRCUIT	MLO	MAIN LUGS ONLY
ATS	AUTOMATIC TRANSFER SWITCH	MOC	MAXIMUM OVERCURRENT PROTECTION
AV	AUDIO VISUAL	NA	NOT APPLICABLE
AWG	AMERICAN WIRE GAGE	NC	NORMALLY CLOSED
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CCTV	CLOSED CIRCUIT TELEVISION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CKT	CIRCUIT	NFC	NATIONAL FIRE CODE
CM	CONSTRUCTION MANAGER	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CND	CONDUIT	NIC	NOT IN CONTRACT
CO	CONVENIENCE OUTLET	NL	NIGHT LIGHT
CP	CONTROL PANEL	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	NTS	NOT TO SCALE
CTV	CABLE TELEVISION	OC	ON CENTER
CU	COPPER	OCP	OVER CURRENT PROTECTION
DBA	UNIT OF SOUND LEVEL	OL	OVERLOAD
DDPT	DOUBLE POLE, DOUBLE THROW	PB	PUSHBUTTON
EM	EMERGENCY	PF	POWER FACTOR
EMT	ELECTRICAL METALLIC TUBING	PH	PHASE
EPO	EMERGENCY POWER OFF	PNL	PANEL
EQUIP	EQUIPMENT	PT	POTENTIAL TRANSFORMER
EX	EXISTING	PTZ	PAN/TILT/ZOOM
F	FURNITURE MOUNTED	QTY	QUANTITY
FA	FIRE ALARM	R	REMOVE
FCP	FIRE ALARM CONTROL PANEL	RCP	REFLECTED CEILING PLAN
FLA	FULL LOAD AMPS	RMC	RIGID METAL CONDUIT
FMC	FLEXIBLE METAL CONDUIT	RNM	RIGID NONMETAL CONDUIT
FVNR	FULL VOLTAGE NON-REVERSING	RPC	REVOLUTIONS PER MINUTE START/STOP
G	GROUND	SCA	SHORT CIRCUIT AMPS
GEN	GENERATOR	SF	SQUARE FOOT (FEET)
GFCI	GROUND FAULT INTERRUPTER	SPD	SURGE PROTECTIVE DEVICE
GFP	GROUND FAULT PROTECTION	SPDT	SINGLE POLE DOUBLE THROW SWITCH
HD	HEAVY DUTY	SPEC	SPECIFICATION
HID	HIGH INTENSITY DISCHARGE	SPST	SINGLE POLE, SINGLE THROW SWITCH
HOA	HAND-OFF-AUTOMATIC	ST	STAIR
HP	HORSE POWER	SWBD	SWITCHBOARD
HPF	HIGH POWER FACTOR	SWGR	SWITCHGEAR
HV	HIGH VOLTAGE	TL	TWIST LOCK
HZ	HERTZ	TP	TWISTED PAIR
IO	INPUT OUTPUT	TB	TELEPHONE TERMINAL BOARD
IG	ISOLATED GROUND	TV	TELEVISION
IMC	INTERMEDIATE METAL CONDUIT	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
INIS	INSULATED/ ISOLATED	TYP	TYPICAL
IR	INFRARED	UGND	UNDERGROUND
J-BOX	JUNCTION BOX	UPS	UNINTERRUPTIBLE POWER SUPPLY
KVA	KILOVOLT AMPERE	V	VOLTS
KVAR	KILOVOLT AMPERE REACTIVE	VA	VOLT AMPERE
KW	KILOWATT	VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
KWH	KILOWATT HOUR	W	WITH
LED	LIGHT EMITTING DIODE	W/O	WITHOUT
LFCM	LIQUID TIGHT FLEXIBLE METAL CONDUIT	WP	WEATHERPROOF
		XFRM	TRANSFORMER

GENERAL ELECTRICAL NOTES	
1.	CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC. SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

REVISIONS:

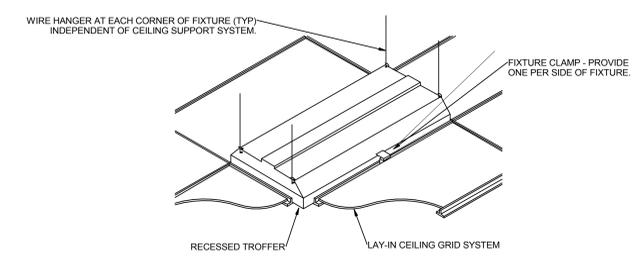


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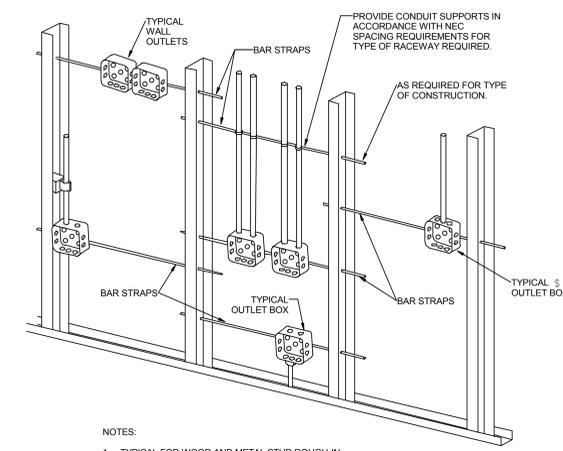


1 CONDUIT TO TRAY ADAPTER
SCALE: NTS

8 CABLE TRAY GROUNDING DETAIL
SCALE: NTS

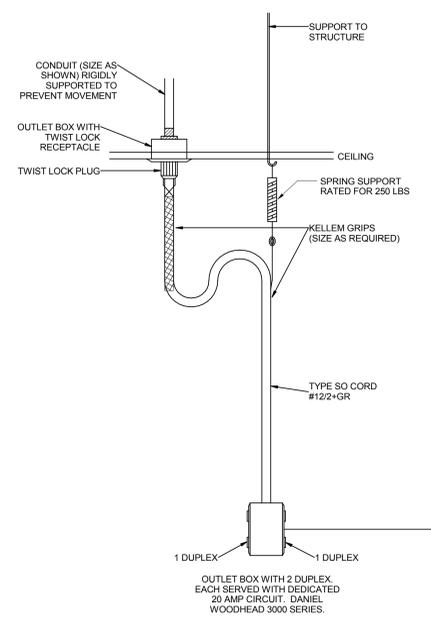


7 RECESSED FIXTURE MOUNTING DETAIL
SCALE: NTS

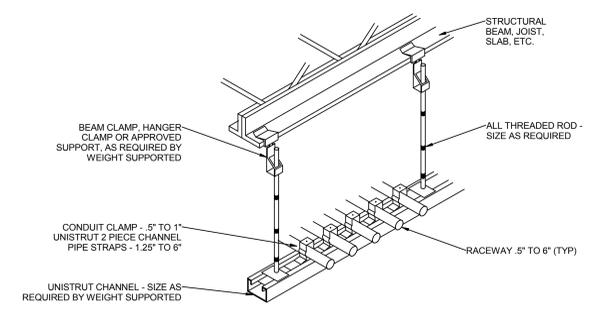


- NOTES:
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
 2. PLASTER RINGS NOT SHOWN.
 3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AMECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
 4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE.
 5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

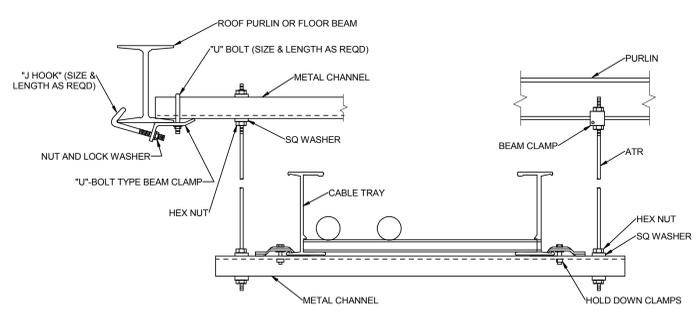
5 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: NTS



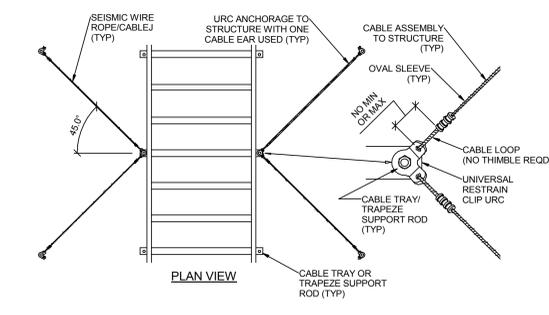
6 DROP CORD DETAIL WITH OUTLET BOX
SCALE: NTS



4 TYPICAL CONDUIT RACK DETAIL
SCALE: NTS



2 TYPICAL INDOOR CABLE TRAY MOUNTING DETAIL
SCALE: NTS



3 SEISMIC WIRE ROPE/CABLEJ BRACING
SCALE: NTS



WSU DAVIS CAMPUS D13 REMODEL

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ELECTRICAL DETAILS PLAN

REVISIONS:



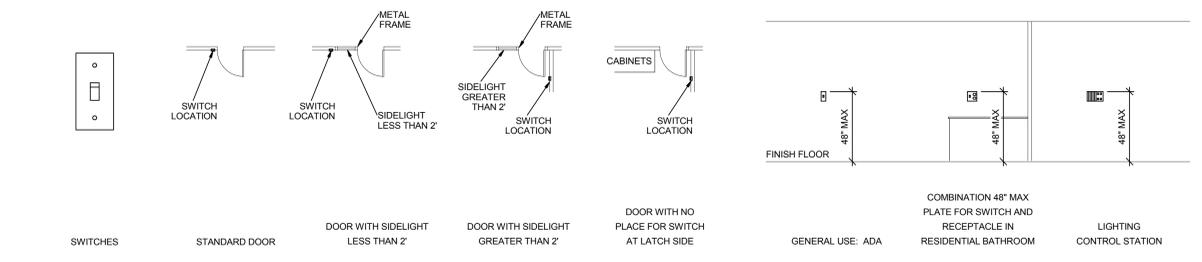
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GENERAL SHEET NOTES

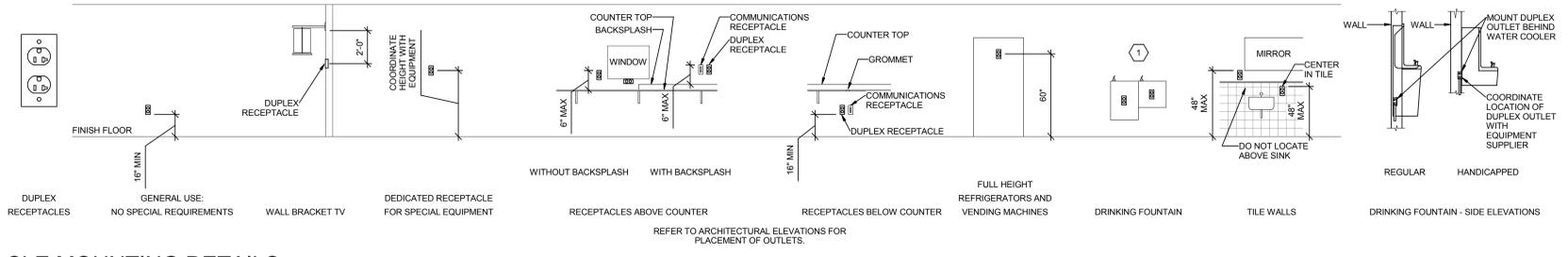
1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:
 - 1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).
 - 2 - EQUIPMENT SHOP DRAWINGS.
 - 3 - FIELD INSTRUCTIONS.
2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIRING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

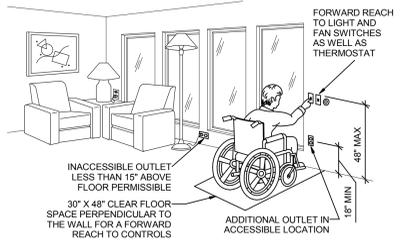
1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY 5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF $D/H < .1$ OR $W/H < .4$, OTHERWISE, LOCATE IN BEAM POCKET. FOR $D > 4$ REDUCE SPACING .33 PERPENDICULAR TO BEAMS.



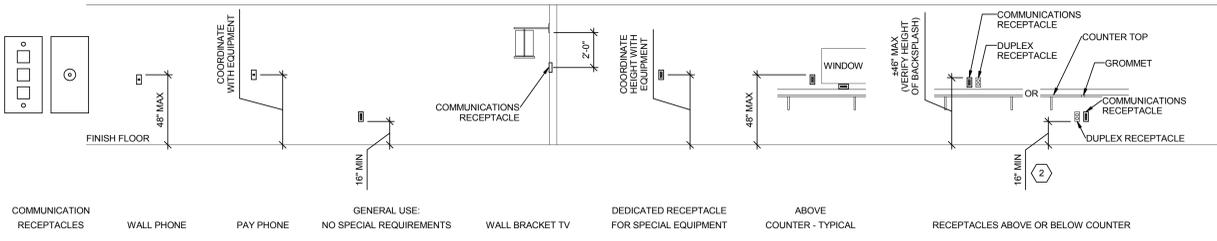
8 SWITCH MOUNTING DETAILS
SCALE: NTS



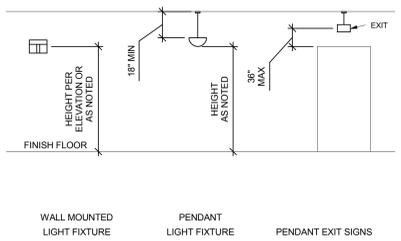
7 RECEPTACLE MOUNTING DETAILS
SCALE: NTS



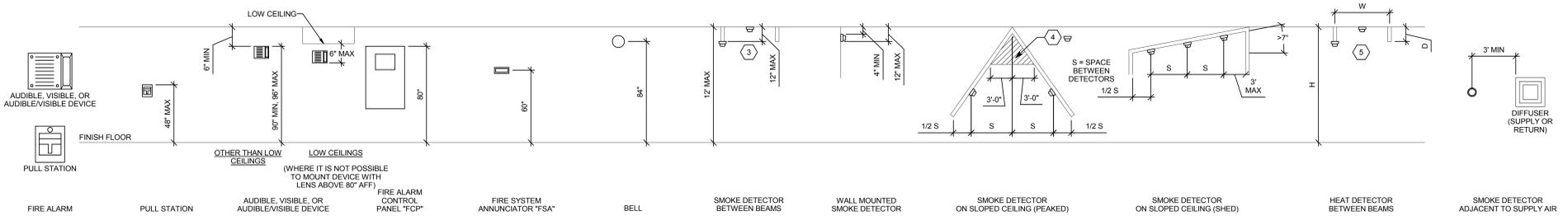
5 ADA DETAIL
SCALE: NTS



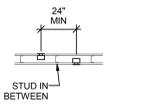
6 COMMUNICATIONS MOUNTING DETAILS
SCALE: NTS



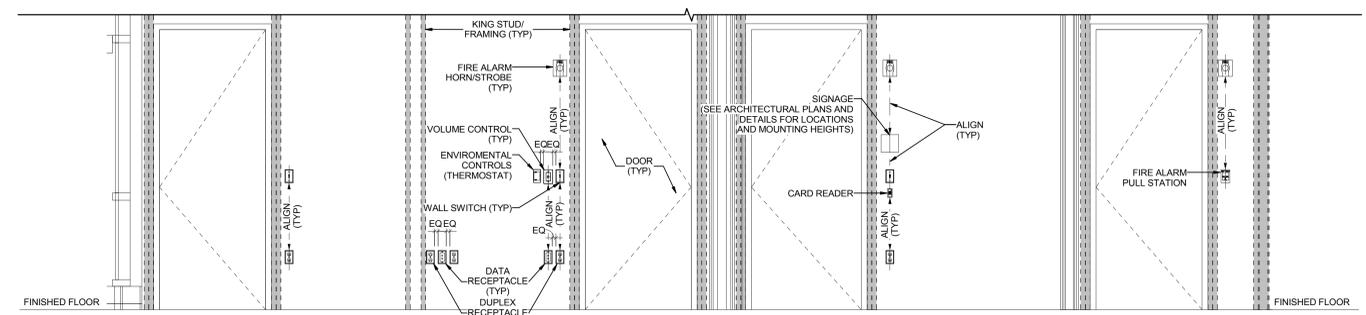
3 LIGHTING MOUNTING DETAILS
SCALE: NTS



4 FIRE ALARM MOUNTING DETAILS
SCALE: NTS



1 BOX MOUNTING DETAILS
SCALE: NTS



2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
SCALE: NTS



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TYPICAL MOUNTING HEIGHT DETAILS

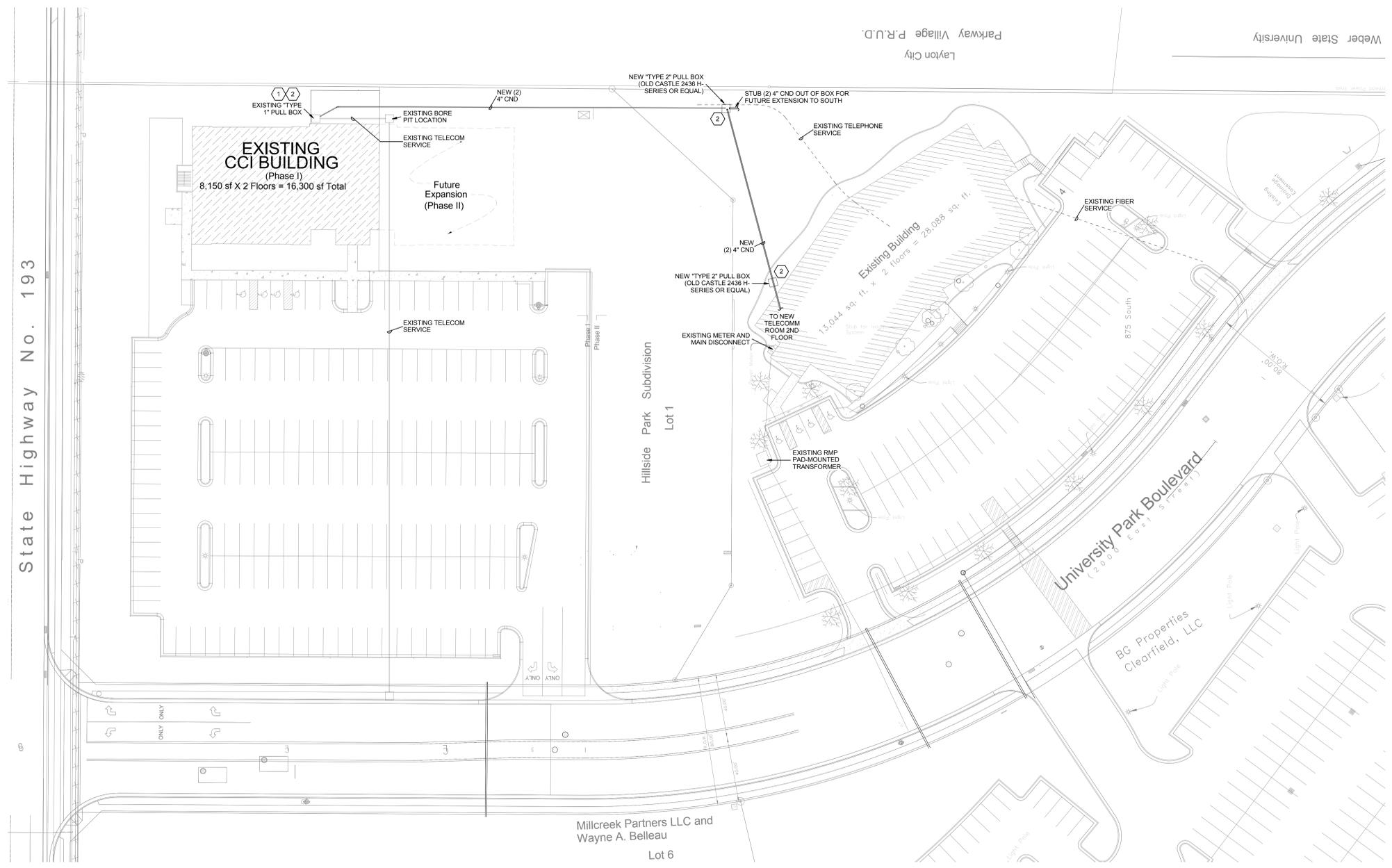
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GENERAL SHEET NOTES	SHEET KEYNOTES
<p>1 ROUTING OF NEW AND EXISTING UNDERGROUND LINES SHOWN IS APPROXIMATE. FIELD VERIFY EXACT ROUTE WITH SITE CONDITIONS. LOCATE AND PROTECT EXISTING UNDERGROUND UTILITIES.</p>	<p>1 REPLACE EXISTING TYPE 1 PULL BOX WITH TYPE 2 POLYMER CONCRETE BOX (OLD CASTLE 2436 H-SERIES OR EQUAL) TO ACCOMMODATE NEW AND EXISTING CONDUITS. CAREFULLY REMOVE AND RE-INSTALL EXISTING CONDUIT AND CABLING AS REQUIRED FOR REPLACEMENT AND COORDINATE THIS WORK WITH WSU I.T. OFFICE.</p> <p>2 IF NEW BOXES ARE IN LAWN AREA, PROVIDE 10" CONCRETE RING AROUND BOX AS A MOW CURB.</p>



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ELECTRICAL SITE PLAN

1 ELECTRICAL SITE PLAN
SCALE: 1" = 30'-0"

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NO.	DESCRIPTION



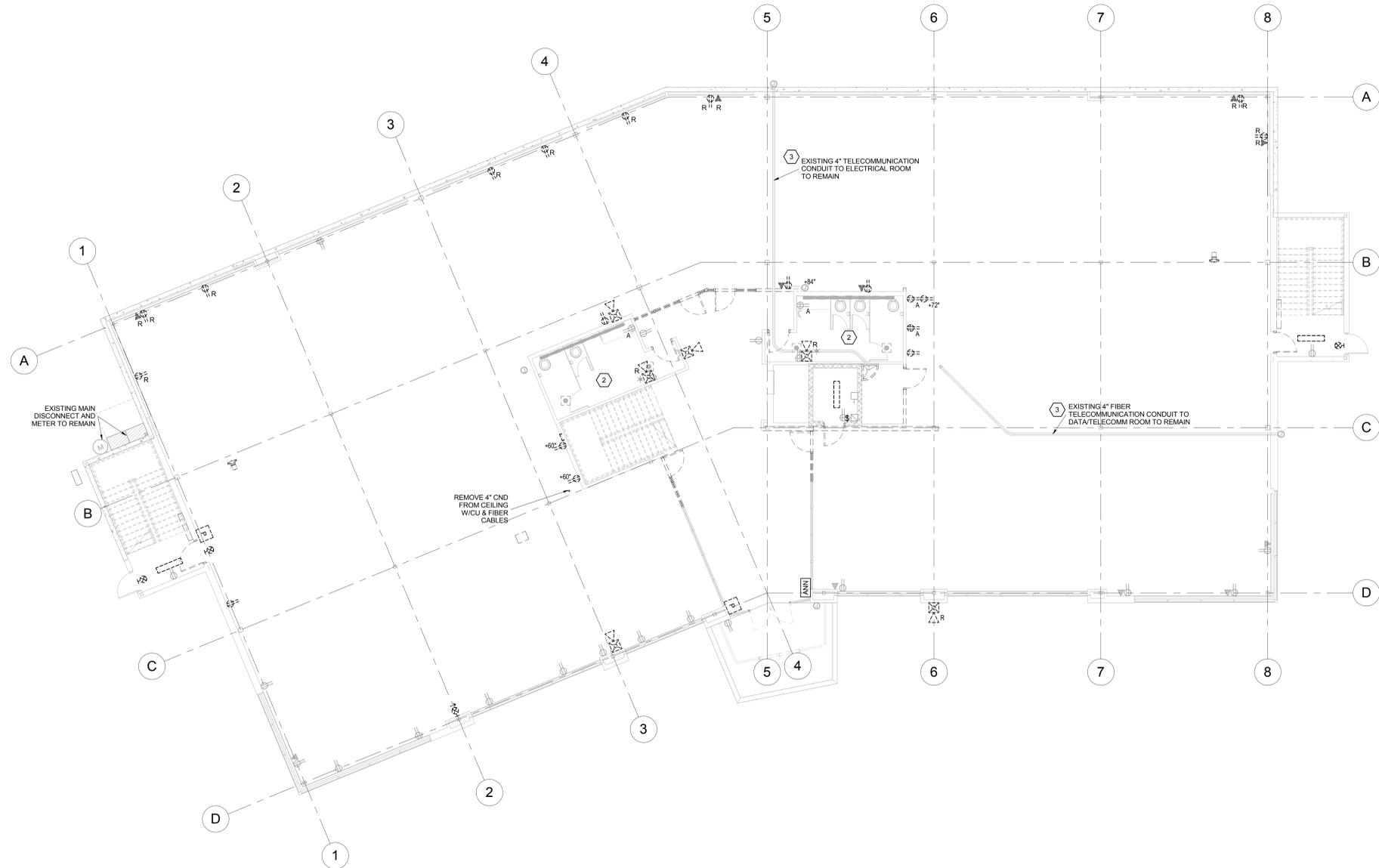
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GENERAL SHEET NOTES

- PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. WHERE EQUIPMENT OR WIRING IS STILL IN USE, IDENTIFY IT AND BRING IT TO THE ATTENTION OF THE ENGINEER.
- COORDINATE DEMOLITION SEQUENCE WITH THE GENERAL CONTRACTOR AND LEAVE EQUIPMENT OPERATIONAL AS NEEDED FOR TEMPORARY POWER FOR THE DEMOLITION/CONSTRUCTION ACTIVITIES.
- REMOVE ALL ABANDONED COMMUNICATIONS CABLING. PRIOR TO DEMOLITION MEET WITH OWNER AND IDENTIFY ALL COMMUNICATIONS CABLE TO REMAIN. PROTECT CABLE TO REMAIN DURING DEMOLITION.
- UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT IN DEMOLITION AREAS OR THAT ARE SHOWN DASHED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS. DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF, AND LABEL AS 'SPARE'. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.
- REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- REMOVE THE ENTIRE FIRE ALARM SYSTEM INCLUDING DEVICES WITH ASSOCIATED CONDUIT AND WIRING. HOWEVER, THE EXISTING FIRE ALARM DEVICES AND SYSTEM SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL.
- REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- REFER TO MECHANICAL DEMOLITION SHEETS AND PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY FOR THE MECHANICAL DEMOLITION. COORDINATE ALL REQUIRED DEMOLITION WITH THE MECHANICAL CONTRACTOR.
- WHERE EXISTING OUTLETS ARE SHOWN TO REMAIN, REPLACE WITH NEW OUTLET AND FACEPLATE. COORDINATE WITH NEW WORK SHOWN ON NEW ELECTRICAL PLANS.
- A PREVIOUS DEMOLITION PACKAGE WAS ISSUED TO REMOVE INTERIOR WALLS AND CEILING. COORDINATE ELECTRICAL DEMOLITION WORK WITH WORK OF OTHER BID PACKAGE.

SHEET KEYNOTES

- REMOVE EXISTING ELECTRICAL PANEL WITH ALL ASSOCIATED FEEDER AND BRANCH CIRCUIT WIRING AND CONDUIT. FOR ANY CIRCUITS THAT REMAIN, RELOCATE CIRCUITS TO NEW PANELBOARD (SEE NEW POWER PLAN). ASSUME 12 EA 201P CIRCUITS TO RELOCATE TO NEW PANEL.
- EXISTING RESTROOM LIGHT FIXTURES TO REMAIN AND BE RE-CIRCUITED AS INDICATED ON NEW LIGHTING PLANS.
- FIELD VERIFY, LOCATE AND PROTECT EXISTING POWER AND TELECOMM SERVICE LINES TO REMAIN.



1 MAIN LEVEL ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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**MAIN LEVEL ELECTRICAL
DEMOLITION PLAN**

GENERAL SHEET NOTES

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- 2 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. WHERE EQUIPMENT OR WIRING IS STILL IN USE, IDENTIFY IT AND BRING IT TO THE ATTENTION OF THE ENGINEER.
- 3 COORDINATE DEMOLITION SEQUENCE WITH THE GENERAL CONTRACTOR AND LEAVE EQUIPMENT OPERATIONAL AS NEEDED FOR TEMPORARY POWER FOR THE DEMOLITION/CONSTRUCTION ACTIVITIES.
- 4 REMOVE ALL ABANDONED COMMUNICATIONS CABLING. PRIOR TO DEMOLITION MEET WITH OWNER AND IDENTIFY ALL COMMUNICATIONS CABLE TO REMAIN. PROTECT CABLE TO REMAIN DURING DEMOLITION.
- 5 UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT IN DEMOLITION AREAS OR THAT ARE SHOWN DASHED. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGIN. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS. DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF, AND LABEL AS "SPARE". ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.
- 6 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.
- 7 REMOVE THE ENTIRE FIRE ALARM SYSTEM INCLUDING DEVICES WITH ASSOCIATED CONDUIT AND WIRING. HOWEVER, THE EXISTING FIRE ALARM DEVICES AND SYSTEM SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL.
- 8 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
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- 10 WHERE EXISTING OUTLETS ARE SHOWN TO REMAIN, REPLACE WITH NEW OUTLET AND FACEPLATE. COORDINATE WITH NEW WORK SHOWN ON NEW ELECTRICAL PLANS.
- 11 A PREVIOUS DEMOLITION PACKAGE WAS ISSUED TO REMOVE INTERIOR WALLS AND CEILING. COORDINATE ELECTRICAL DEMOLITION WORK WITH WORK OF OTHER BID PACKAGE.

SHEET KEYNOTES

- 1 FIELD VERIFY, LOCATE AND PROTECT EXISTING POWER AND TELECOMM SERVICE LINES TO REMAIN.
- 2 EXISTING RESTROOM LIGHT FIXTURES TO REMAIN AND BE RE-CIRCUITED AS INDICATED ON NEW LIGHTING PLANS.



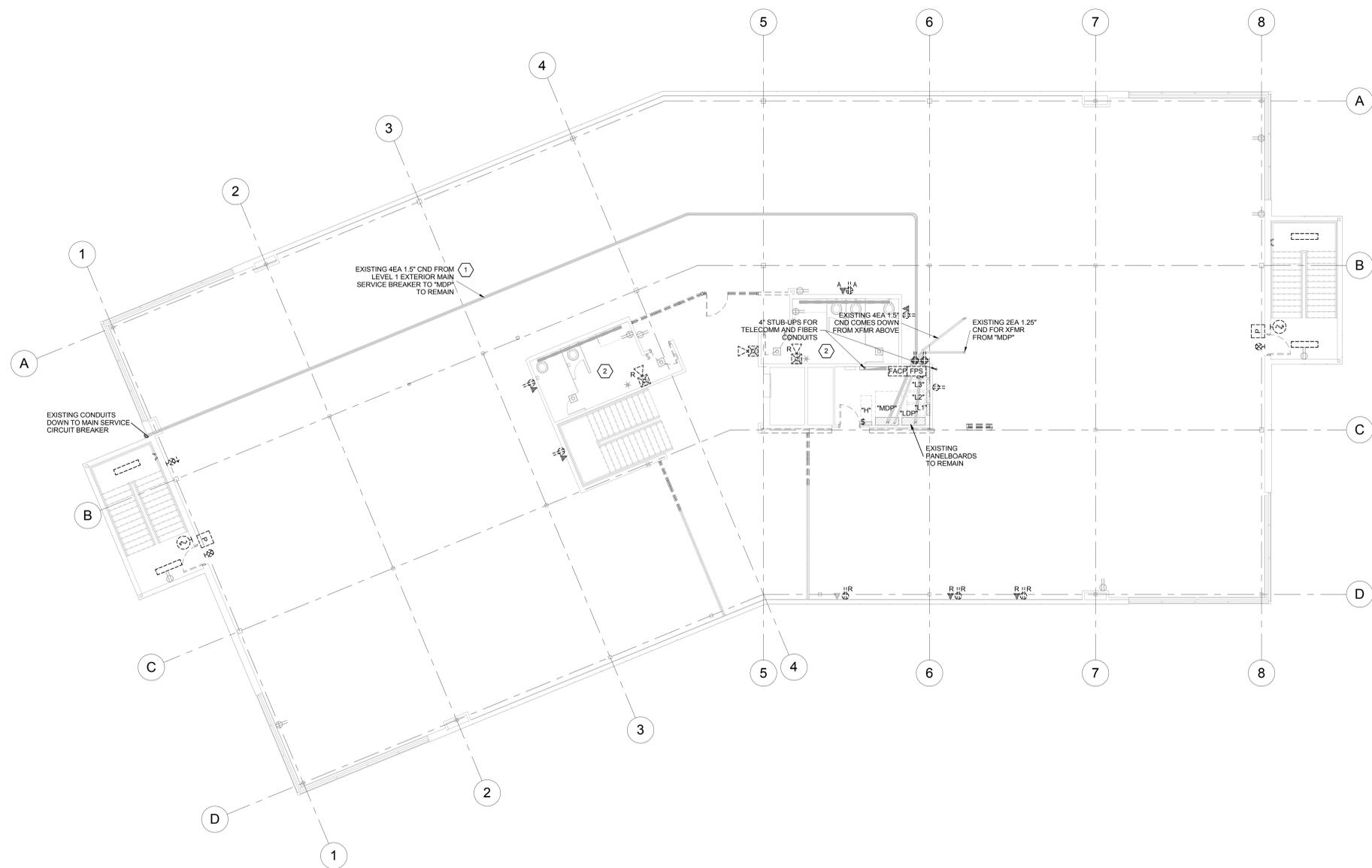
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1 SECOND LEVEL ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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**SECOND LEVEL ELECTRICAL
DEMOLITION PLAN**

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GENERAL SHEET NOTES

- 1 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
- 2 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. WHERE EQUIPMENT OR WIRING IS STILL IN USE, IDENTIFY IT AND BRING IT TO THE ATTENTION OF THE ENGINEER.
- 3 COORDINATE DEMOLITION SEQUENCE WITH THE GENERAL CONTRACTOR AND LEAVE EQUIPMENT OPERATIONAL AS NEEDED FOR TEMPORARY POWER FOR THE DEMOLITION/CONSTRUCTION ACTIVITIES.
- 4 REMOVE ALL ABANDONED COMMUNICATIONS CABLING. PRIOR TO DEMOLITION MEET WITH OWNER AND IDENTIFY ALL COMMUNICATIONS CABLE TO REMAIN. PROTECT CABLE TO REMAIN DURING DEMOLITION.
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- 7 REMOVE THE ENTIRE FIRE ALARM SYSTEM INCLUDING DEVICES WITH ASSOCIATED CONDUIT AND WIRING. HOWEVER, THE EXISTING FIRE ALARM DEVICES AND SYSTEM SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL.
- 8 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
- 9 REFER TO MECHANICAL DEMOLITION SHEETS AND PROVIDE ALL ELECTRICAL DEMOLITION WORK NECESSARY FOR THE MECHANICAL DEMOLITION. COORDINATE ALL REQUIRED DEMOLITION WITH THE MECHANICAL CONTRACTOR.
- 10 WHERE EXISTING OUTLETS ARE SHOWN TO REMAIN, REPLACE WITH NEW OUTLET AND FACEPLATE. COORDINATE WITH NEW WORK SHOWN ON NEW ELECTRICAL PLANS.
- 11 A PREVIOUS DEMOLITION PACKAGE WAS ISSUED TO REMOVE INTERIOR WALLS AND CEILING. COORDINATE ELECTRICAL DEMOLITION WORK WITH WORK OF OTHER BID PACKAGE.

SHEET KEYNOTES

- 1 REMOVE ELECTRICAL CONNECTIONS TO MECHANICAL EQUIPMENT TO BE REMOVED. COORDINATE WITH MECHANICAL INSTALLER.

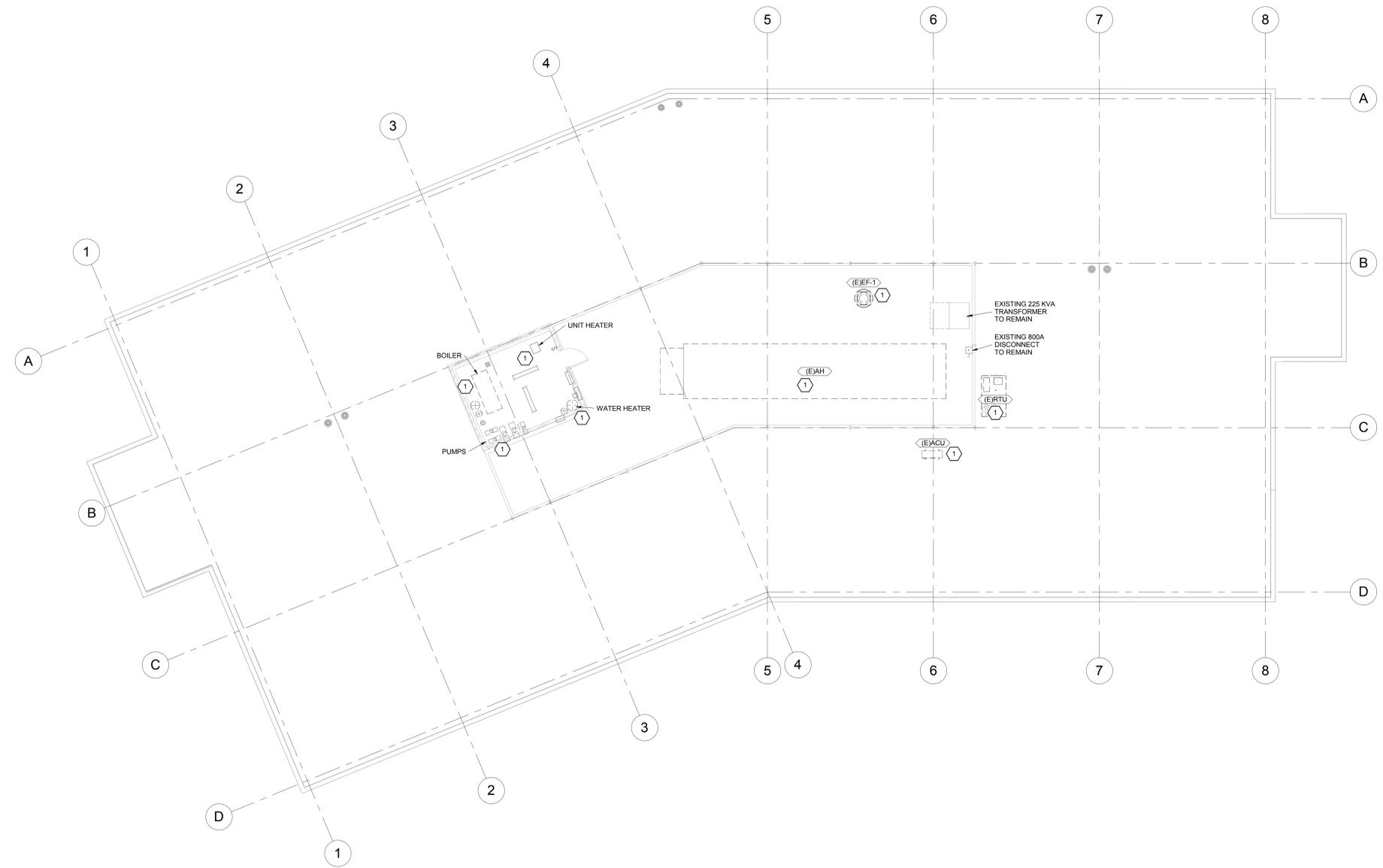


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1 PENTHOUSE/ROOF ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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**PENTHOUSE/ROOF
ELECTRICAL DEMOLITION
PLAN**

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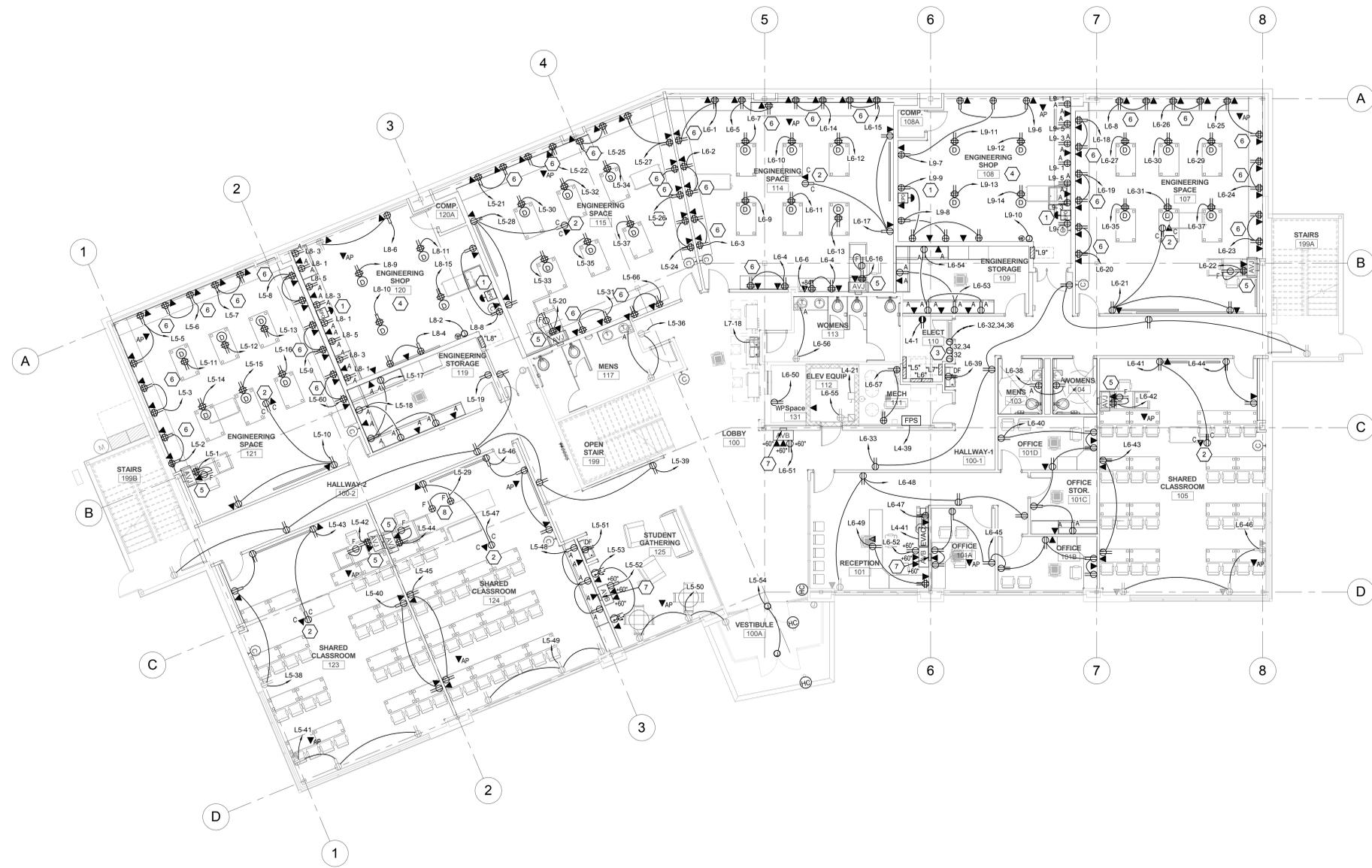
GENERAL SHEET NOTES

- 1 PROVIDE DRY CONTACT FOR ALL REFRIGERATORS/FREEZERS TO TIE INTO BMS SYSTEM.
- 2 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. FIELD COORDINATE EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN.

SHEET KEYNOTES

- 1 PROVIDE RED MUSHROOM PUSH TYPE BUTTON, WITH PROTECTIVE COVER, TO ACTIVATE SHUNT TRIP MAIN BREAKER OF ASSOCIATED PANEL IN ROOM UPON ACTIVATION. PROVIDE LABEL "EMERGENCY POWER OFF" ADJACENT TO BUTTON. VERIFY BUTTON LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 2 PROVIDE CEILING OUTLETS FOR PROJECTOR POWER AND DATA. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 3 PROVIDE J-BOX FOR MECHANICAL CONTROL CIRCUIT POWER. COORDINATE EXACT LOCATION WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
- 4 INSTALL OUTLET SOCKET COVERS INTO ALL RECEPTACLE SOCKETS IN ENGINEERING SHOP SPACE. BRAND SAFETY 1ST. TYPE "SECURE PRESS PLUG PROTECTORS".
- 5 COORDINATE EXACT LOCATION OF AV JUNCTION BOX WITH FURNITURE AND MILLWORK, AND WITH OWNER AND ARCHITECT SUCH THAT AV J-BOX OPENINGS LINES UP WITH OPENINGS IN FURNITURE.
- 6 IN ENGINEERING SPACES, LOCATE WALL OUTLETS DIRECTLY BENEATH GROMMETS IN TABLE ABOVE. COORDINATE WITH ARCHITECTURAL DETAILS.
- 7 PROVIDE RECESSED POWER AND DATA OUTLETS FOR FLAT-PANEL MONITORS. SEE DETAIL AND COORDINATE EXACT MOUNTING REQUIREMENTS WITH ARCHITECT/OWNER.
- 8 INSTALL OUTLETS IN MILLWORK. COORDINATE LOCATION WITH ARCHITECTURAL ELEVATIONS AND DETAILS.

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1 MAIN LEVEL POWER PLAN
 SCALE: 1/8" = 1'-0"



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MAIN LEVEL POWER PLAN

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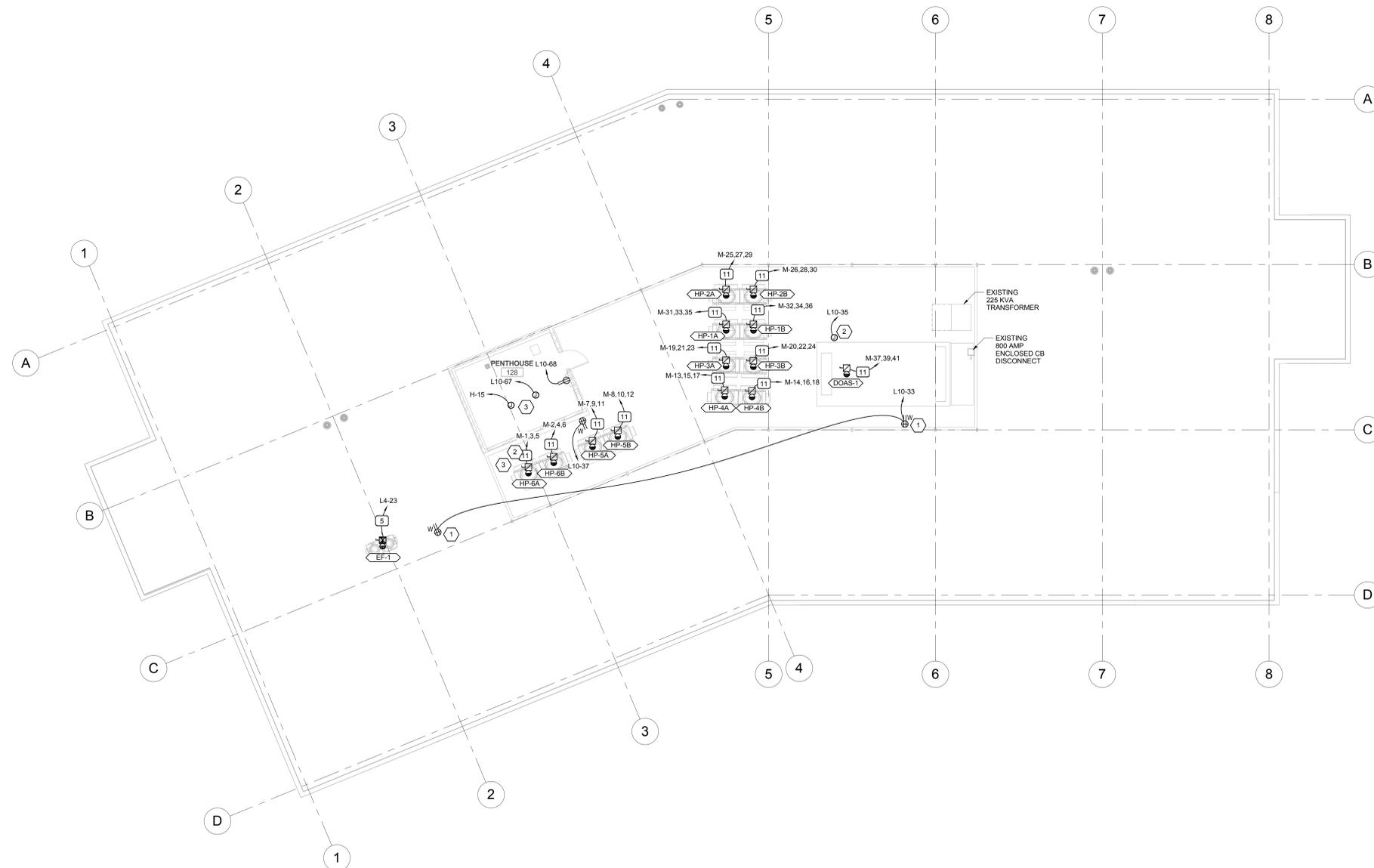
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GENERAL SHEET NOTES		SHEET KEYNOTES	
1	PROVIDE DRY CONTACT FOR ALL REFRIGERATORS/FREEZERS TO TIE INTO BMS SYSTEM.	1	ROOF MOUNTED RECEPTACLE. PROVIDE INDEPENDENT SUPPORT SUCH AS UNISTRUT OR RIGID CONDUIT TO SUPPORT RECEPTACLE. INSTALL NEAR ROOF MOUNTED MECHANICAL EQUIPMENT.
2	LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. FIELD COORDINATE EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN.	2	120V CIRCUIT FOR MECHANICAL CONTROLS AND AUXILIARY CIRCUITS. COORDINATE WITH MECHANICAL AND PROVIDE ALL CONNECTIONS.
		3	RECONNECT EXISTING POWER AND LIGHTING CIRCUITS TO REMAIN IN PENTHOUSE.



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**PENTHOUSE/ROOF POWER
PLAN**

1 PENTHOUSE/ROOF POWER PLAN
SCALE: 1/8" = 1'-0"

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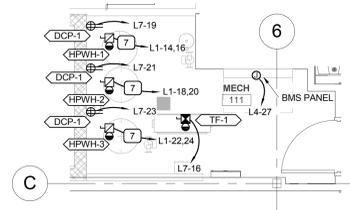


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- 1 PROVIDE DRY CONTACT FOR ALL REFRIGERATORS/FREEZERS TO TIE INTO BMS SYSTEM.
- 2 LOCATIONS OF MECHANICAL EQUIPMENT SHOWN IS APPROXIMATE. FIELD COORDINATE EXACT LOCATIONS OF EQUIPMENT PRIOR TO ROUGH-IN.

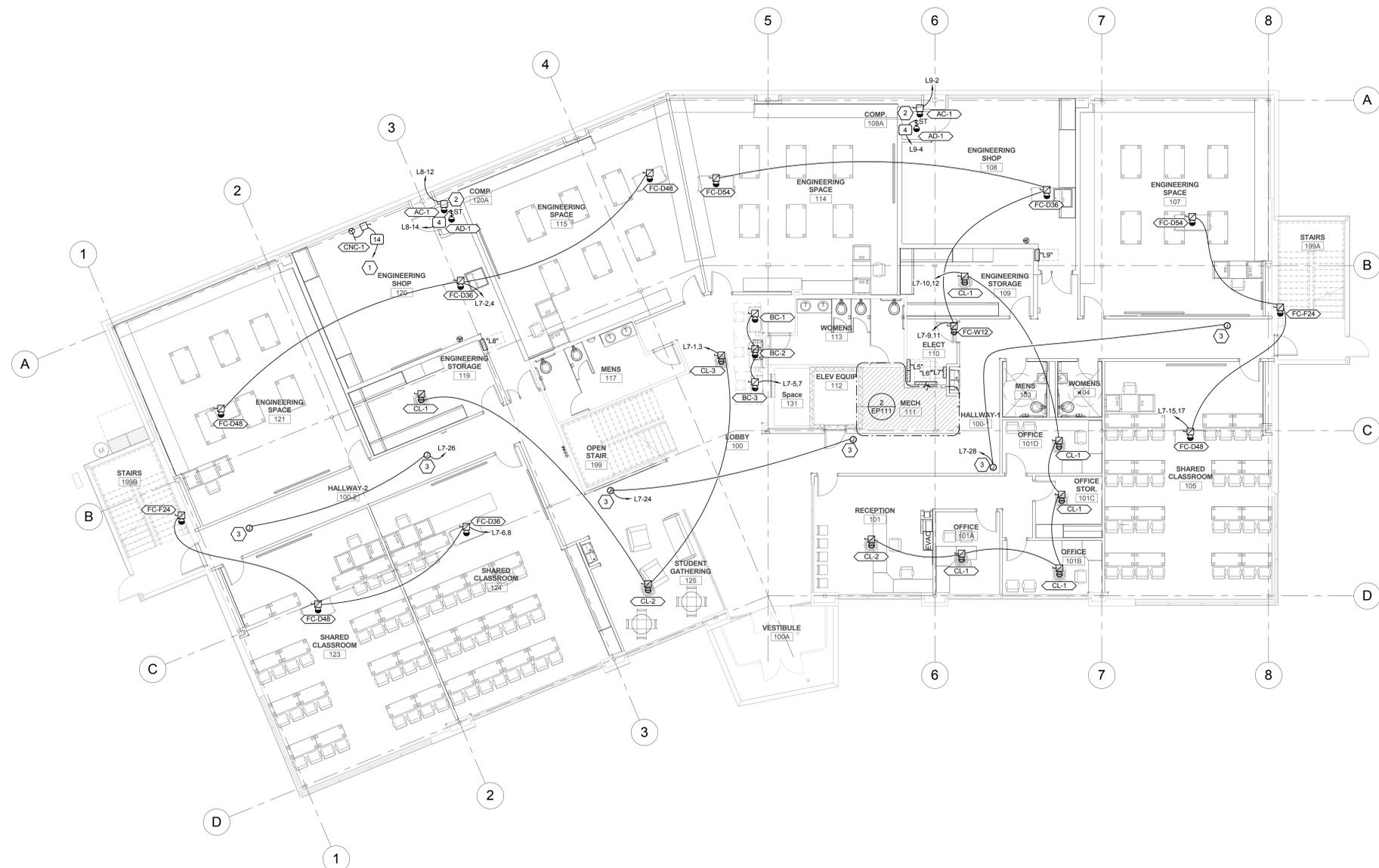
SHEET KEYNOTES

- 1 CNC-1 EQUIPMENT PROVIDED BY WSU. COORDINATE EXACT LOCATION, CONNECTION, AND OUTLET TYPE WITH WSU PRIOR TO ROUGH-IN. EQUIPMENT NOT SELECTED AT TIME WHEN PROJECT WENT OUT TO BID. POWER EITHER TO COME FROM PANEL "N", 480V 3-PHASE, OR ENGINEERING SHOP PANEL, 208V 3-PHASE. COORDINATE WITH WSU.
- 2 AIR COMPRESSOR PROVIDED BY WSU. COORDINATE EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH-IN.
- 3 J-BOX ABOVE CEILING FOR MECHANICAL BMS CONTROL TRANSFORMERS. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL INSTALLER AND PROVIDE ALL CONNECTIONS.



2 ENLARGED MECHANICAL ROOM 111 POWER PLAN

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



1 MAIN LEVEL MECHANICAL POWER PLAN

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



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**MAIN LEVEL MECHANICAL
POWER PLAN**

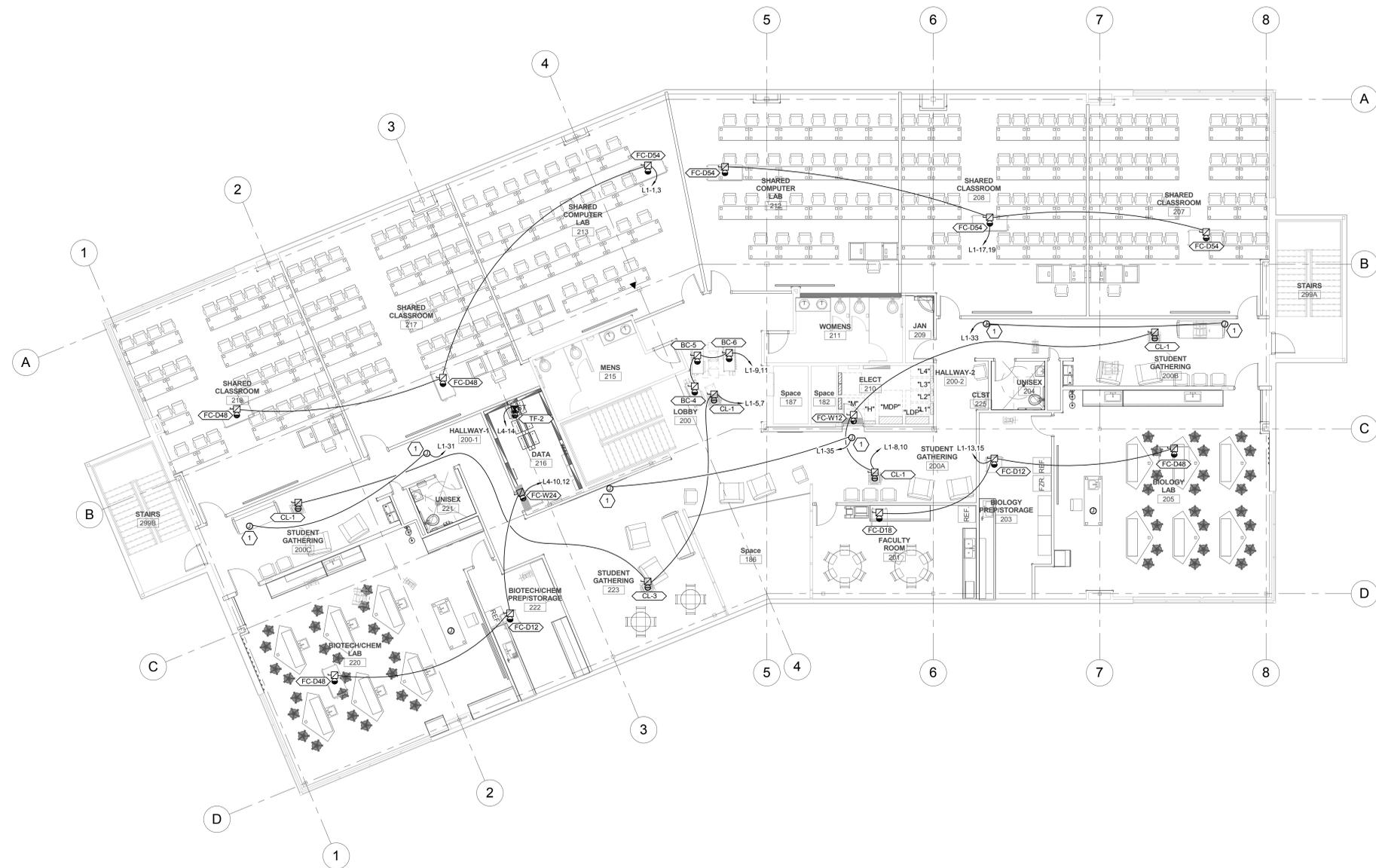
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GENERAL SHEET NOTES	SHEET KEYNOTES
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GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015
**SECOND LEVEL MECHANICAL
POWER PLAN**

1 SECOND LEVEL MECHANICAL POWER PLAN
SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

- 1 PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
- 2 REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
- 3 ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
- 4 PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER 2011 NEC 230.95(C).

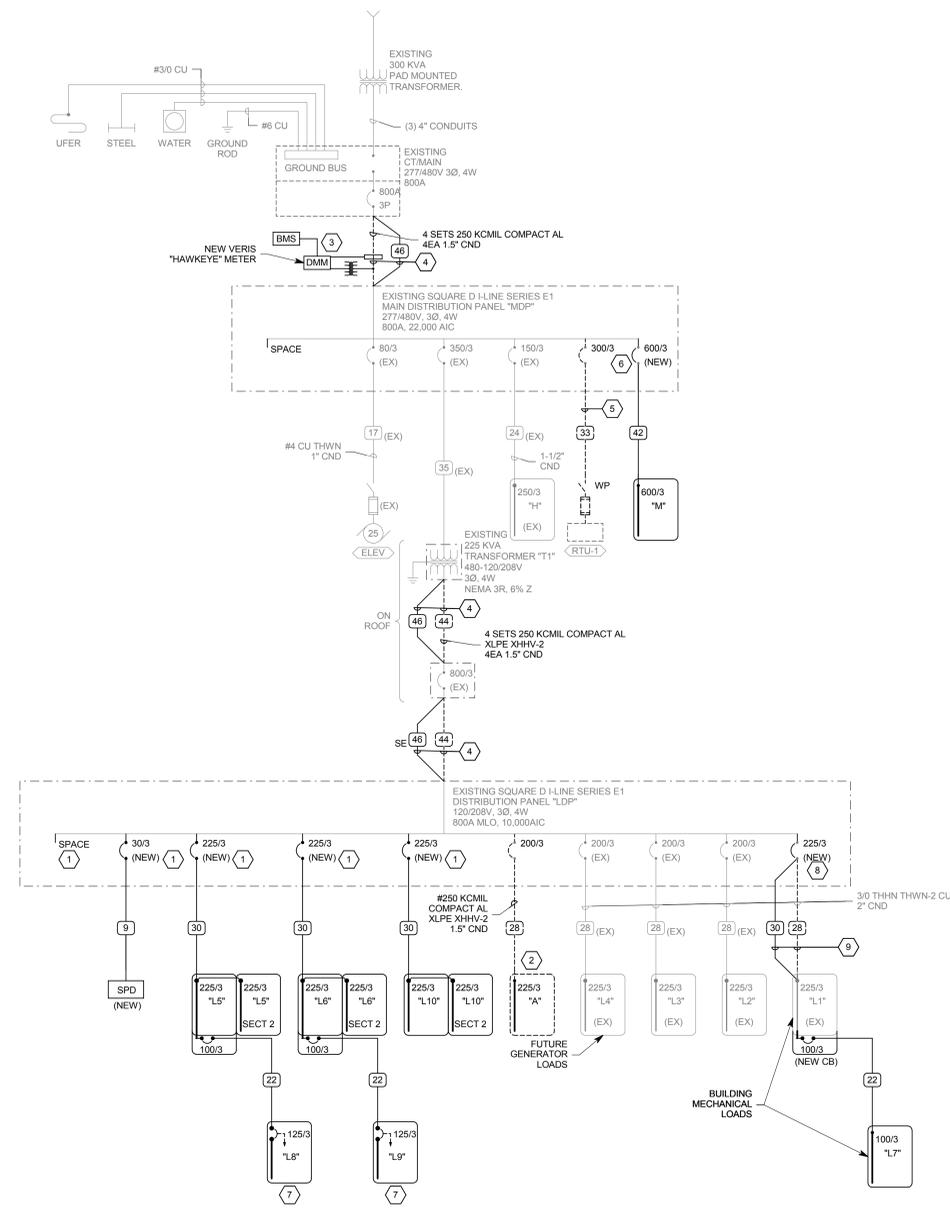
SHEET KEYNOTES

- 1 PROVIDE NEW CIRCUIT BREAKER AS INDICATED IN EXISTING DISTRIBUTION PANELBOARD. PROVIDE MINIMUM 22 KAIC RATING.
- 2 REMOVE EXISTING PANELBOARD WITH ASSOCIATED FEEDER CONDUIT AND WIRING. ANY BRANCH WIRING THAT REMAINS SHALL BE EXTENDED TO NEW PANELBOARDS.
- 3 PROVIDE NEW VERIS METER WITH ASSOCIATED CT'S AND WIRING, AND CONNECT TO BMS SYSTEM PER WSY STANDARDS. COORDINATE WITH WSU AND BMS INSTALLER.
- 4 BID ALTERNATE #2: REMOVE EXISTING ALUMINUM CONDUCTORS AND CONDUIT AND REPLACE WITH NEW COPPER CONDUCTORS AND CONDUIT AS INDICATED.
- 5 REMOVE EXISTING CONDUIT AND WIRING TO EXISTING ROOF TOP EQUIPMENT TO BE REMOVED. REMOVE EXISTING 300/3 CB.
- 6 PROVIDE NEW 35KAIC CB IN EXISTING PANEL AS INDICATED.
- 7 PROVIDE SHUNT-TRIP MAIN BREAKERS TO ACTIVATE WITH EPO SWITCHES IN ASSOCIATED ROOM.
- 8 REMOVE EXISTING 200/3 CIRCUIT BREAKER AND PROVIDE NEW 225/3, 22 KAIC CIRCUIT BREAKER AS INDICATED.
- 9 REMOVE EXISTING FEEDER CONDUIT AND WIRING AND PROVIDE NEW AS INDICATED.

FAULT CURRENT TABLE

BUS	FAULT CURRENT
H	35,000 SCA
L1	22,000 SCA
L2	22,000 SCA
L3	22,000 SCA
L4	22,000 SCA
L5	22,000 SCA
L6	22,000 SCA
L7	22,000 SCA
L8	22,000 SCA
L9	22,000 SCA
L10	22,000 SCA
M	35,000 SCA

PROVIDE FULLY RATED CIRCUIT BREAKERS IN PANELBOARDS FOR THE FAULT CURRENT SHOWN. SERIES RATINGS WITH NEXT LEVEL UPSTREAM OVERCURRENT PROTECTIVE DEVICES ARE PERMITTED SUBJECT TO FACTORY UL DOCUMENTATION OF SERIES RATINGS SUBMITTED TO ENGINEER. IF DEVICE OR EQUIPMENT FAULT CURRENT RATING IS NOT SHOWN, ASSUME 100,000 AIC.



1 POWER ONE-LINE DIAGRAM
SCALE: NTS

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SYM	AMP	HH AMPS	CONDUIT		CONDUCTOR (NOTE 1)		IGHH	SE	NOTES
			SIZE	QTY	SIZE	G			
(1)	20	-	75	2	12	12	12	8	2
(2)	20	-	75	3	12	12	12	8	2,3
(3)	20	24	75	4	12	12	12	8	2,3
(4)	30	-	75	2	10	10	10	8	2
(5)	30	-	75	3	10	10	10	8	2
(6)	30	32	75	4	10	10	10	8	2
(7)	40	-	1	2	8	10	8	6	2
(8)	40	-	1	3	8	10	8	6	2
(9)	40	44	1	4	8	10	8	6	2
(10)	55	-	1	2	6	10	8	4	2
(11)	55	-	1	3	6	10	8	4	2
(12)	55	60	1.25	4	6	10	8	4	2
(13)	70	-	1	2	4	8	4	2	2
(14)	70	-	1.25	3	4	8	4	2	2
(15)	70	76	1.25	4	4	8	4	2	2
(16)	85	-	1.25	2	3	8	3	2	2
(17)	85	-	1.25	3	3	8	3	2	2
(18)	85	92	1.25	4	3	8	3	2	2
(19)	95	-	1.25	3	2	8	2	2	2
(20)	95	104	1.50	4	2	8	2	2	2
(21)	130	-	1.50	3	1	6	2	2	2
(22)	130	116	1.50	4	1	6	2	2	2
(23)	150	-	2	3	1/0	6	2	1/0	2
(24)	150	136	2	4	1/0	6	2	1/0	2
(25)	175	-	2	3	2/0	6	2	2/0	2
(26)	175	156	2	4	2/0	6	2	2/0	2
(27)	200	-	2	3	3/0	6	2	2/0	2
(28)	200	180	2.50	4	3/0	6	2	2/0	2
(29)	230	-	2.50	3	4/0	4	2	2/0	2
(30)	230	208	2.50	4	4/0	4	2	2/0	2
(31)	255	-	2.50	3	250	4	1	2/0	2
(32)	255	232	2.50	4	250	4	1	2/0	2
(33)	310	-	3	3	350	3	1/0	3/0	2
(34)	310	280	3	4	350	3	1/0	3/0	2
(35)	360	-	3.50	3	500	3	3/0	3/0	2
(36)	380	344	4	4	500	3	3/0	3/0	2
(37)	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
(38)	400	360	2 EA 2.50	4	3/0	3	3/0	3/0	2
(39)	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
(40)	510	464	2 EA 3	4	250	1	4/0	3/0	2
(41)	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
(42)	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
(43)	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
(44)	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
(45)	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
(46)	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
(47)	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
(48)	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
(49)	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4
(50)	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
(51)	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
(52)	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
(53)	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
(54)	2010	1824	6 EA 4	4	400	250	250	250	4
(55)	2660	2408	7 EA 4	4	500	350	350	350	4
(56)	3040	2752	8 EA 4	4	500	500	500	500	4
(57)	4180	3784	11 EA 4	4	500	500	500	500	4
(58)	-	-	5 EA 4	-	-	-	-	-	6
(59)	-	-	5	-	-	-	-	-	6
(60)	-	-	10 EA 4	-	-	-	-	-	6

- CONDUIT AND CONDUCTOR SCHEDULE NOTES
1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
 2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
 3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
 4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
 5. SYMBOL SUBSCRIPTS:
 - *2N*: INCLUDE TWO NEUTRAL CONDUCTORS, SIZED AS SCHEDULED FOR PHASED AND NEUTRAL CONDUCTORS.
 - *FG*: FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
 - *HH*: NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NON-LINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IGHH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
 - *IG*: INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
 - *SE*: SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
 6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.



WSU DAVIS CAMPUS D13 REMODEL

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041

DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

ONE-LINE DIAGRAMS

REVISIONS:



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EXISTING PANEL: "H" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

EXISTING PANEL: "L3" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

PANEL: "L6" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

PANEL: "L1" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

EXISTING PANEL: "L4" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

PANEL: "L7" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

EXISTING PANEL: "L2" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

PANEL: "L5" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.

PANEL: "L8" Table with columns for CT, AMP, POLE, LGT, PWR, CO, DESCRIPTION, PHASE LOAD (A, B, C), LOAD (kVA), CO, PWR, LGT, POLE, AMP, NO. Includes lighting and continuous loads summary.



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OWNER PROJECT NO.: 1429710 GSBS PROJECT NO.: 2014.095.000 ISSUED DATE: 03/09/2015

PANEL SCHEDULES

GENERAL SHEET NOTES

- 1 CIRCUIT ALL EXIT SIGNS, BATTERY PACKS AND NIGHTLIGHTS (NL) TO UNSWITCHED LEG OF ASSOCIATED CIRCUIT.
- 2 COORDINATE ALL LIGHTING IN MECHANICAL, ELECTRICAL AND IT/COMM/DATA ROOMS WITH EQUIPMENT TO AVOID DUCTS, PIPES, ETC.

SHEET KEYNOTES

- 1 CIRCUIT ELEVATOR LIGHT(S) WITH ELEVATOR ROOM OUTLET.

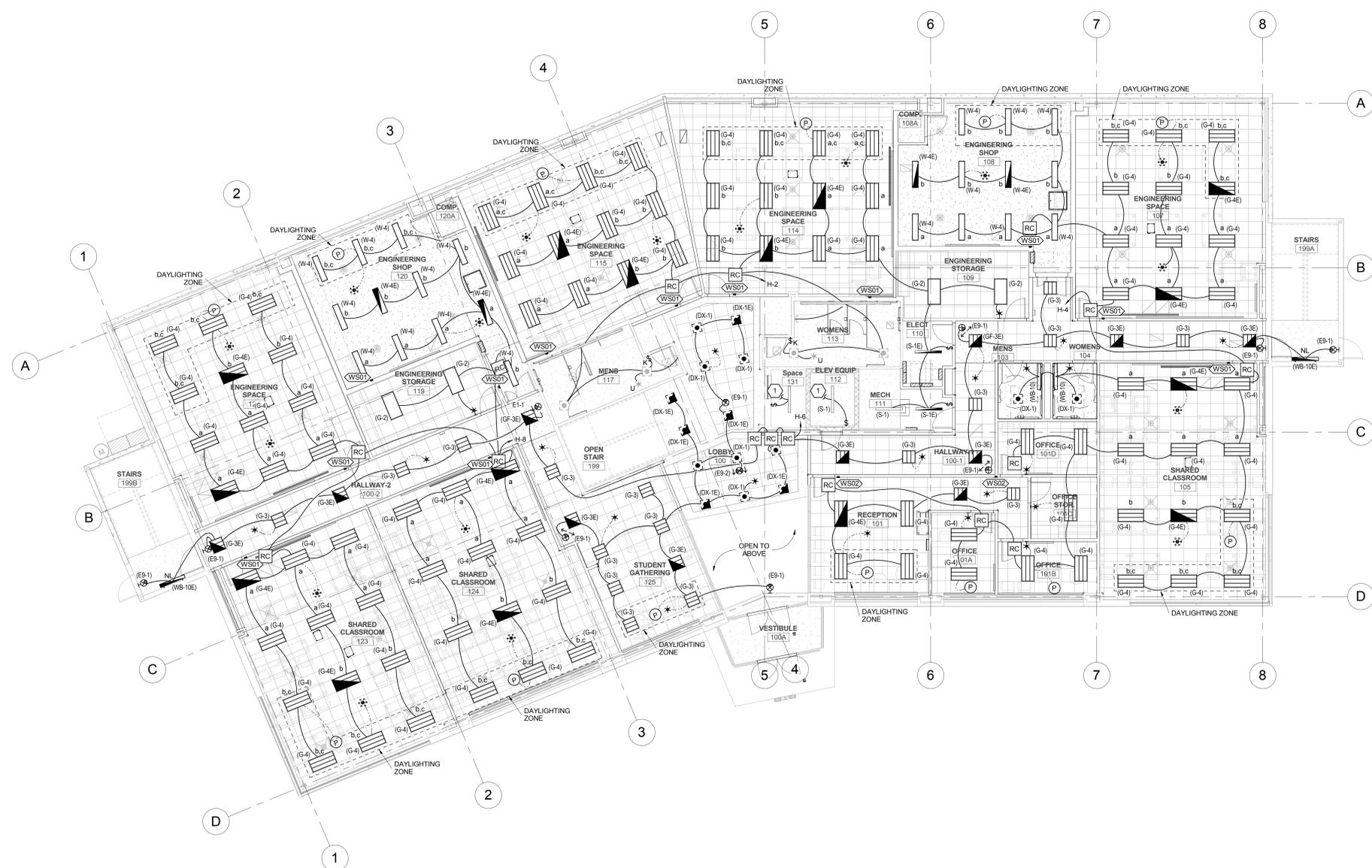


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1 MAIN LEVEL LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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CAMPUS D13
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BUILDING 450 NORTH
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LAKE CITY, UT 84114
OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015
MAIN LEVEL LIGHTING PLAN

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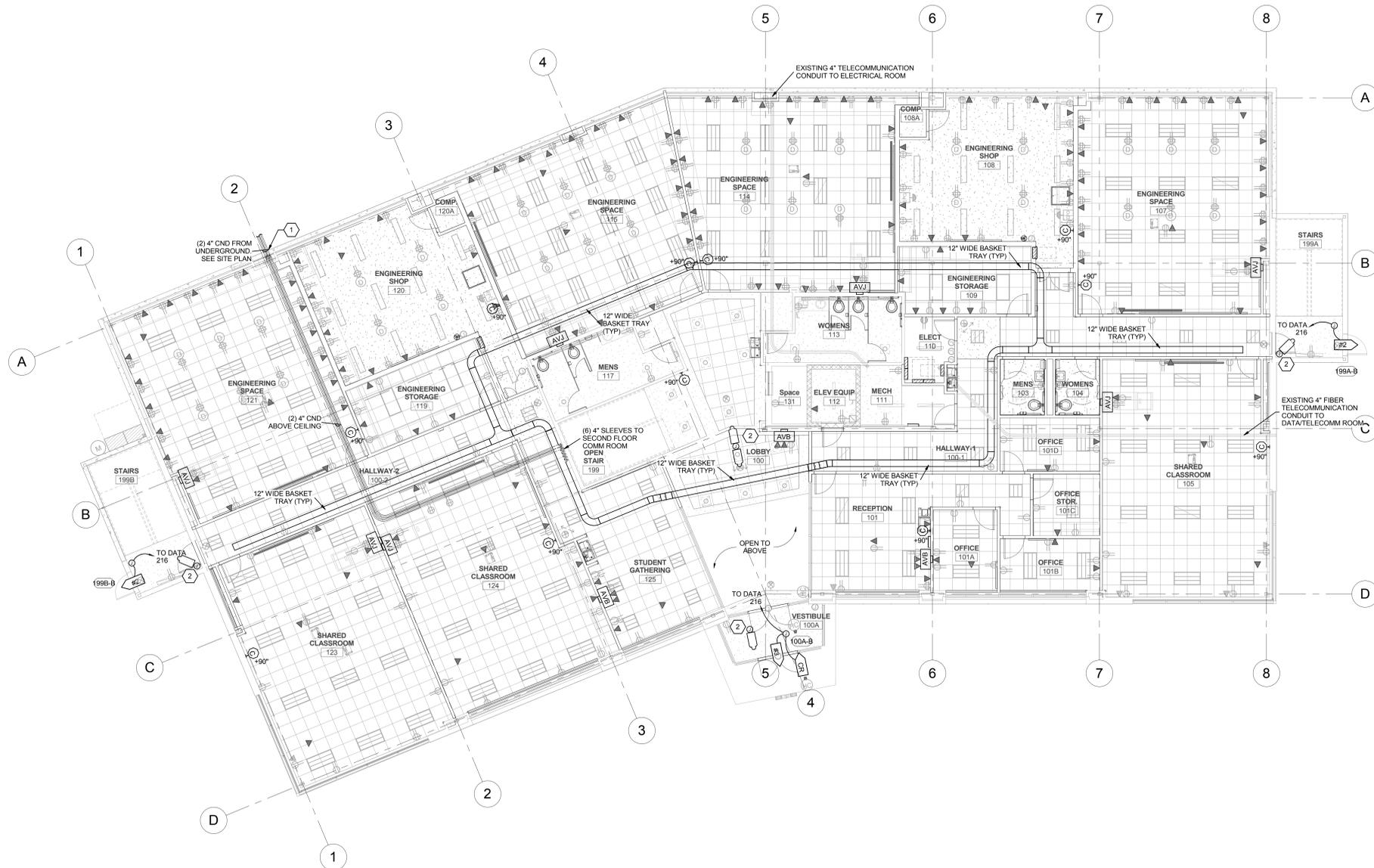


GENERAL SHEET NOTES

1. PLANS, IN GENERAL, SHOW CABLE TRAYS IN PLAN AND DO NOT DETAIL CHANGES IN ELEVATION. COORDINATE LAYOUT AND INSTALLATION OF CABLE TRAYS AND SUSPENDING SYSTEM WITH OTHER CONSTRUCTION ELEMENTS. INCLUDE TRANSITIONS, OFFSETS AND CHANGES IN ELEVATION. COORDINATE ITEMS THAT PENETRATE CEILING OR ARE SUPPORTED BY THEM, INCLUDING LIGHT FIXTURE, HVAC EQUIPMENT, FIRE SUPPRESSION SYSTEM AND PARTITION ASSEMBLIES.
2. PROVIDE FIRE STOPPING MATERIALS TO MAINTAIN FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. PROVIDE SLEEVES FOR PENETRATION SLOTS/OPENINGS. MATCH CROSS SECTIONAL AREA OF CABLE TRAY. PROVIDE SEALING FILLERS.
3. LOCATE CABLE TRAY ABOVE SUSPENDED CEILING AND BELOW DUCTS AND OTHER SYSTEMS WITH A MINIMUM OF 4" CLEARANCE BELOW AND ABOVE CABLE TRAY TO ALLOW FOR CEILING TILE REMOVAL AND CABLE TRAY ACCESS.
4. MAINTAIN A MINIMUM OF 12" SEPARATE BETWEEN CABLE TRAY AND LIGHT FIXTURES, AND BETWEEN POWER CONDUITS AND CONDUCTORS.
5. THE COMPLETE RACEWAY SYSTEM SERVING THE VOICE/DATA TELECOMMUNICATIONS CABLING, INCLUDING CONDUIT AND CABLE TRAY PATHWAYS SHALL BE SUCH THAT THE MAXIMUM CABLE DISTANCE FROM EACH VOICE/DATA OUTLET TO THE TELECOMM ROOM RACK TERMINAL POINT IS LESS THEN 90 METERS.

SHEET KEYNOTES

1. PENETRATE EXTERIOR WALL WITH NEW CONDUITS, RISE IN NEW VERTICAL CHASE TO 1ST FLOOR ACCESSIBLE CEILING THEN RUN CONDUITS ABOVE CEILING TO 2ND FLOOR DATA ROOM. SEAL ALL PENETRATIONS.
2. J-BOX FOR SECURITY CAMERA. PROVIDE 1" CND FROM J-BOX TO CABLE TRAY. CAMERAS AND CABLES TO BE INSTALLED BY OWNER.



1 MAIN LEVEL AUXILIARY PLAN
SCALE: 1/8" = 1'-0"



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OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
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MAIN LEVEL AUXILIARY PLAN

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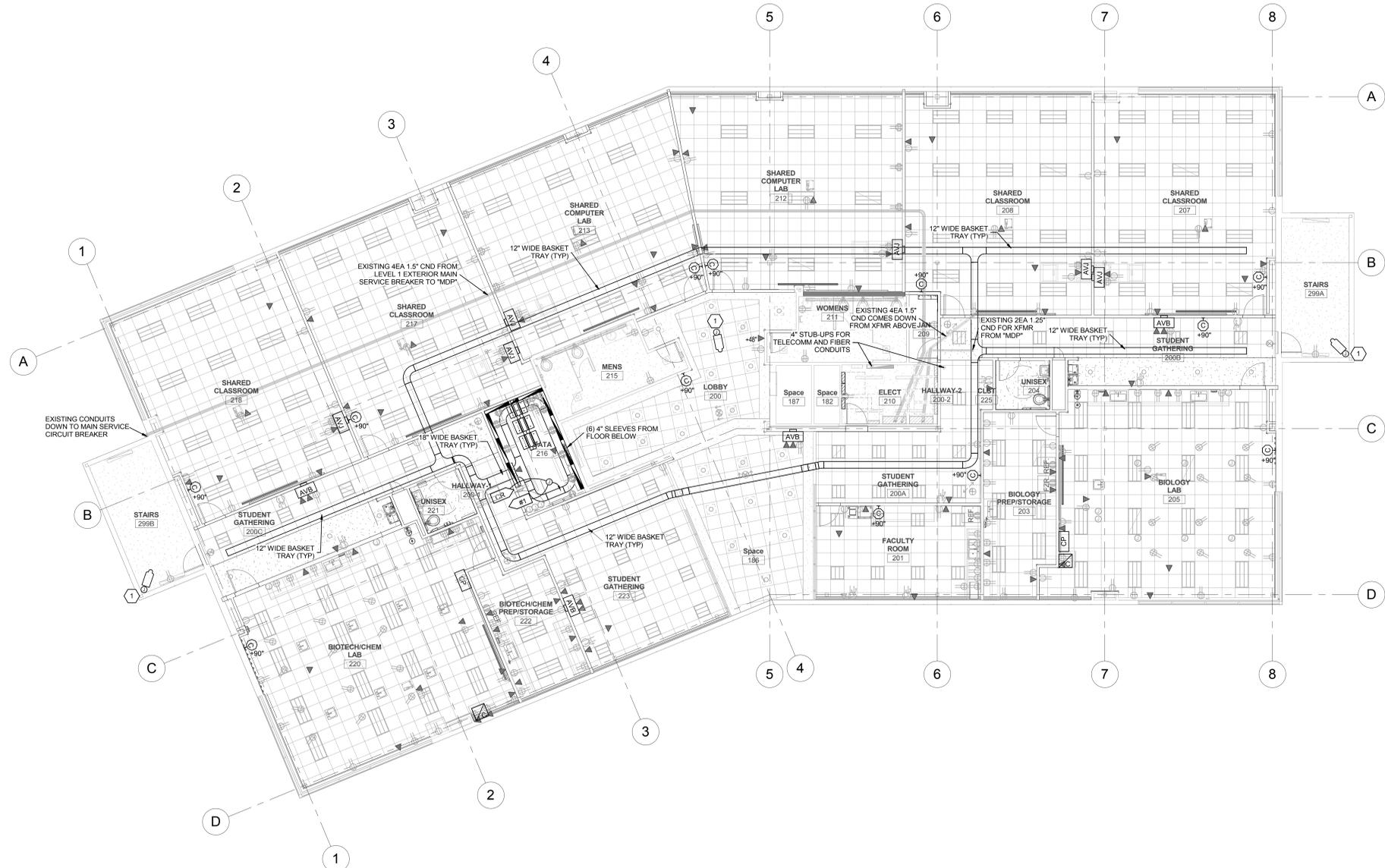


GENERAL SHEET NOTES

1. PLANS, IN GENERAL, SHOW CABLE TRAYS IN PLAN AND DO NOT DETAIL CHANGES IN ELEVATION. COORDINATE LAYOUT AND INSTALLATION OF CABLE TRAYS AND SUSPENDING SYSTEM WITH OTHER CONSTRUCTION ELEMENTS. INCLUDE TRANSITIONS, OFFSETS AND CHANGES IN ELEVATION. COORDINATE ITEMS THAT PENETRATE CEILINGS OR ARE SUPPORTED BY THEM, INCLUDING LIGHT FIXTURE, HVAC EQUIPMENT, FIRE SUPPRESSION SYSTEM AND PARTITION ASSEMBLIES.
2. PROVIDE FIRE STOPPING MATERIALS TO MAINTAIN FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. PROVIDE SLEEVES FOR PENETRATION SLOTS/OPENINGS. MATCH CROSS SECTIONAL AREA OF CABLE TRAY. PROVIDE SEALING FILLERS.
3. LOCATE CABLE TRAY ABOVE SUSPENDED CEILINGS AND BELOW DUCTS AND OTHER SYSTEMS WITH A MINIMUM OF 4" CLEARANCE BELOW AND ABOVE CABLE TRAY TO ALLOW FOR CEILING TILE REMOVAL AND CABLE TRAY ACCESS.
4. MAINTAIN A MINIMUM OF 12" SEPARATE BETWEEN CABLE TRAY AND LIGHT FIXTURES, AND BETWEEN POWER CONDUITS AND CONDUCTORS.
5. THE COMPLETE RACEWAY SYSTEM SERVING THE VOICE/DATA TELECOMMUNICATIONS CABLING, INCLUDING CONDUIT AND CABLE TRAY PATHWAYS SHALL BE SUCH THAT THE MAXIMUM CABLE DISTANCE FROM EACH VOICE/DATA OUTLET TO THE TELECOMM ROOM RACK TERMINAL POINT IS LESS THEN 90 METERS.

SHEET KEYNOTES

1. J-BOX FOR SECURITY CAMERA. PROVIDE 1" CND FROM J-BOX TO CABLE TRAY. CAMERAS AND CABLES TO BE INSTALLED BY OWNER.



1 SECOND LEVEL AUXILIARY PLAN
SCALE: 1/8" = 1'-0"



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GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015
**SECOND LEVEL AUXILIARY
PLAN**

GENERAL SHEET NOTES

1 PROVIDE FIRE STOPPING MATERIALS TO MAINTAIN FIRE RATINGS CONSISTENT WITH PENETRATED BARRIERS. PROVIDE SLEEVES FOR PENETRATION SLOTS/OPENINGS. MATCH CROSS SECTIONAL AREA OF CABLE TRAY. PROVIDE SEALING FILLERS.

SHEET KEYNOTES

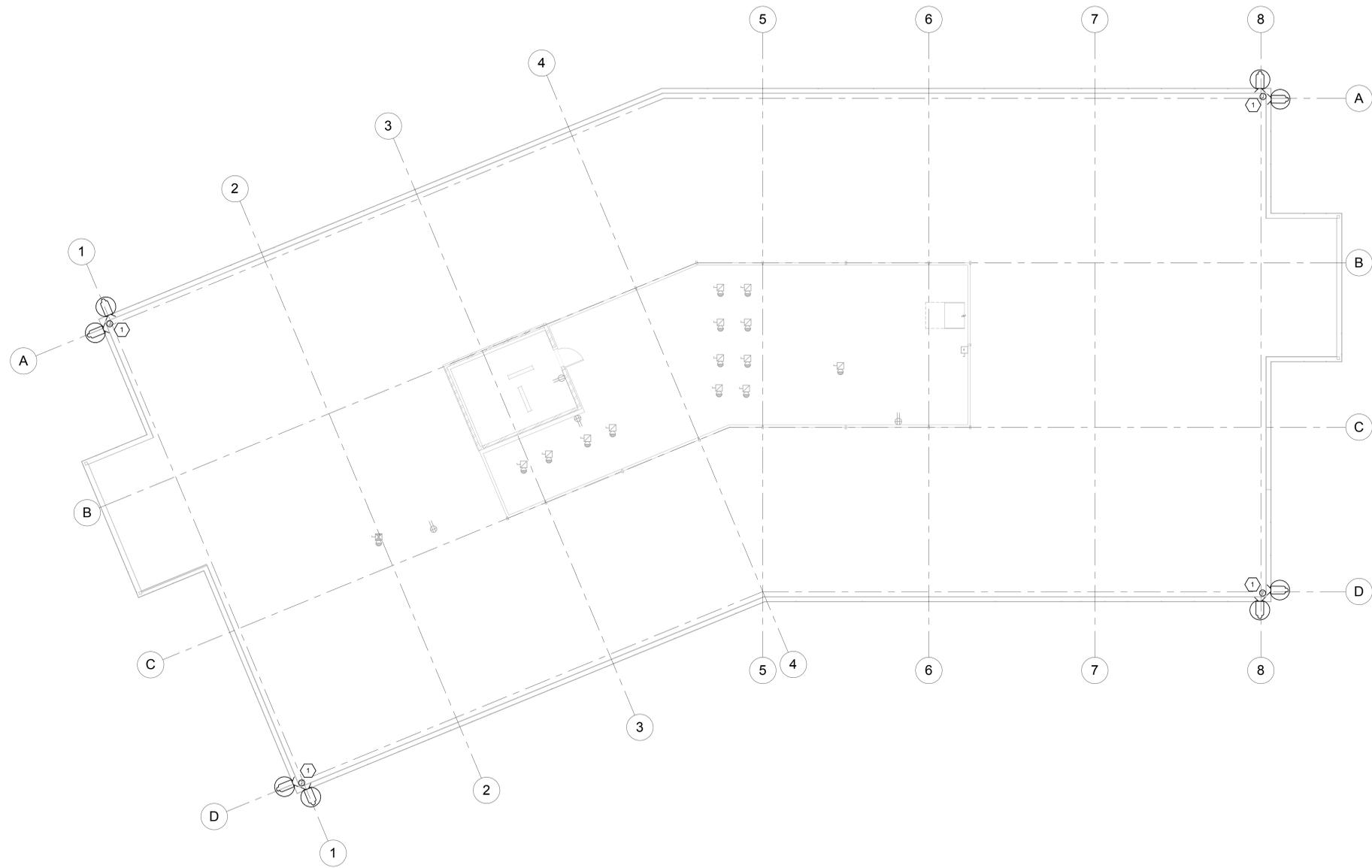
1 J-BOX FOR SECURITY CAMERA. PROVIDE 1" END FROM J-BOX TO CABLE TRAY. CAMERAS AND CABLES TO BE INSTALLED BY OWNER.

REVISIONS:

NO.	DESCRIPTION



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1 PENTHOUSE/ROOF AUXILIARY PLAN
SCALE: 1/8" = 1'-0"



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OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

**PENTHOUSE/ROOF AUXILIARY
PLAN**

CARD ACCESS DOOR TYPE SCHEDULE						
DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 1		SINGLE DOOR, 1 CARD READER, (FREE EGRESS)			ELECTRIC STRIKE	SECURITY CONTRACTOR PROVIDES: • CR, LPS HARDWARE CONTRACTOR PROVIDES: • ES, CI LOCK CONTROLLED BY: • CR
TYPE 2		SINGLE DOOR, NO CARD READER			EXISTING HARDWARE	SECURITY CONTRACTOR PROVIDES: • CR HARDWARE CONTRACTOR PROVIDES: • CI, REX LOCK CONTROLLED BY: • CR
TYPE 3		DOUBLE DOOR, 1 CARD READER, WITHOUT AUTO ASSISTED OPENER			ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR PROVIDES: • CR HARDWARE CONTRACTOR PROVIDES: • EED, EPT, REX, LPS LOCK CONTROLLED BY: • CR

ABBREVIATIONS

DBL	=	DOUBLE
DIR	=	DIRECTION
HWWR	=	HARDWARE
4SQ	=	FOUR SQUARE
W/	=	WITH
1G	=	1 GANG
PWR	=	POWER
ACC	=	ACCESSIBLE
OCC	=	OCCUPANCY
TYP	=	TYPICAL
LPS	=	LOCK POWER SUPPLY
CR	=	CARD READER
CI	=	DOOR CONTACT INDICATOR
EPT	=	ELECTRIC POWER TRANSFER
ES	=	ELECTRIC STRIKE
ED	=	EXIT DEVICE
ML	=	ELECTROMAGNETIC LOCK
KS	=	KEY SWITCH
ACS	=	ACCESS CONTROL SYSTEM
EL	=	ELECTRIC LOCKSET
MD	=	MOTION DETECTOR
TLC	=	TIME/SYSTEM LOCK CONTROL
ELC	=	EMERGENCY LOCK CONTROL
IDS	=	INTRUSION DETECTION SYSTEM
ADA	=	AUTO DOOR OPENER
REX	=	REQUEST TO EXIT
FA	=	FIRE ALARM SYSTEM
OPF	=	OBTAIN FROM PLANS
ASR	=	AS REQUIRED
AED	=	ACCESS EXIT DEVICE (SEE SECTION 87100)
AEL	=	ACCESS ELECTRIC LOCKSET (SEE SECTION 87100)
FH	=	FRAME HARNESS
DH	=	DOOR HARNESS

GENERAL SHEET NOTES

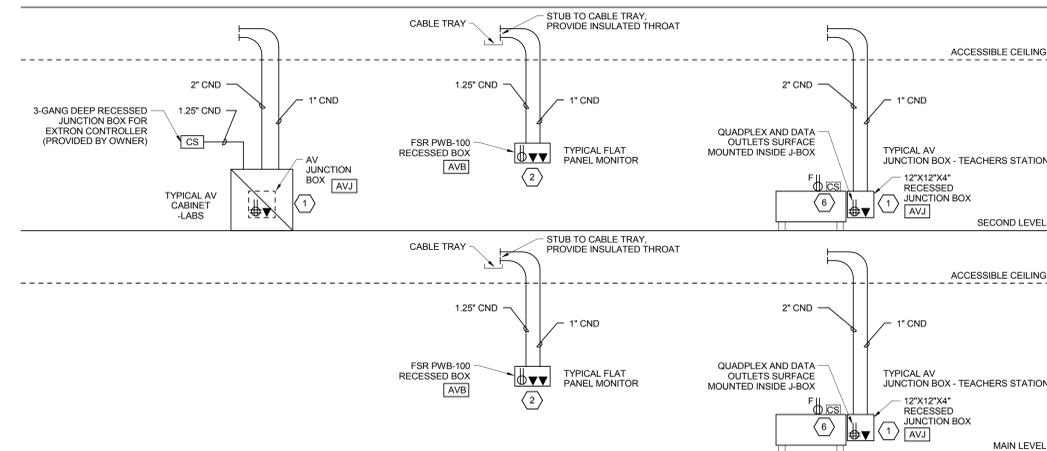
- 1 PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED.
- 2 PROVIDE CONCEALED .75" CND TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.
- 3 LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS.
- 4 DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.

SHEET KEYNOTES

- 1 COORDINATE EXACT LOCATION OF AV JUNCTION BOX WITH FURNITURE AND MILLWORK, AND WITH OWNER AND ARCHITECT SUCH THAT AV J-BOX OPENINGS LINES UP WITH OPENING IN FURNITURE.
- 2 PROVIDE RECESSED POWER AND DATA OUTLETS FOR FLAT-PANEL MONITORS. SEE DETAIL AND COORDINATE EXACT MOUNTING REQUIREMENTS WITH ARCHITECT/OWNER.
- 3 PROVIDE T1A-607 TYPE GROUND BUS. CHATSWORTH 40153-012 OR APPROVED EQUIVALENT.
- 4 PROVIDE 4-11/16" X 2-3/4" SQUARE BOX WITH SINGLE GANG MUD RING AND COVER PLATE.
- 5 PROVIDE 4-11/16" X 2-3/4" SQUARE BOX WITH DOUBLE GANG MUD RING AND COVER PLATE.
- 6 PROVIDE OUTLET AND 3-GANG BACK BOX. FOR OWNER PROVIDED EXTRON CONTROLLER. IN TEACHERS STATION MILLWORK, COORDINATE EXACT LOCATIONS WITH MILLWORK, ARCHITURAL DETAILS, AND OWNER/ARCHITECT PRIOR TO ROUGH-IN.

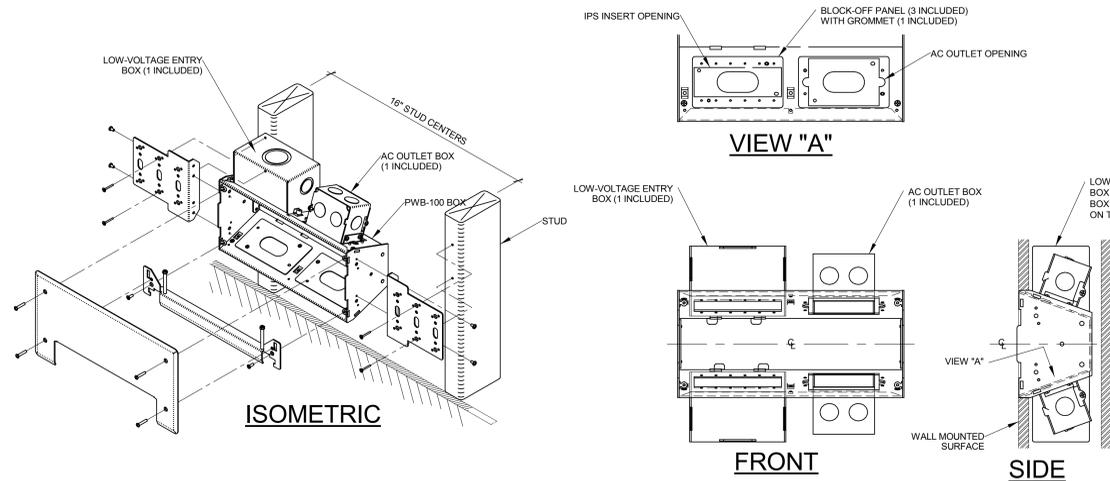
REVISIONS:

NO.	DATE	DESCRIPTION



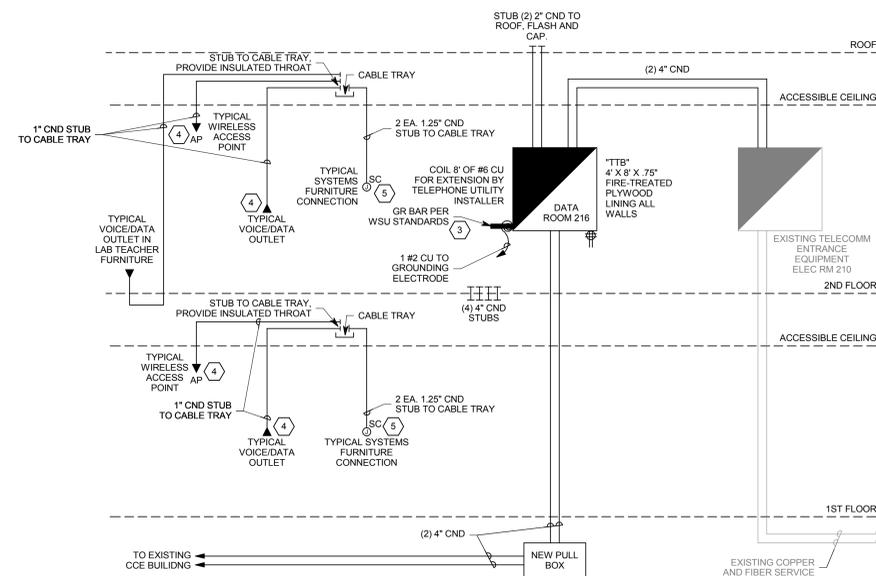
3 AUDIO VISUAL CONDUIT RISER DIAGRAM

SCALE: NTS



1 FLAT PANEL WALL BOX DETAIL

SCALE: NTS



2 TELECOMMUNICATIONS CONDUIT ONE-LINE DIAGRAM

SCALE: NTS



WSU DAVIS CAMPUS D13 REMODEL

875 SOUTH UNIVERSITY PARK BLVD.
CLEARFIELD, UT 84041
DFCM

4110 STATE OFFICE
BUILDING 450 NORTH
STATE STREET SALT
LAKE CITY, UT 84114

OWNER PROJECT NO.: 14297810
GSBS PROJECT NO.: 2014.095.00
ISSUED DATE: 03/09/2015

AUXILIARY DIAGRAMS AND SCHEDULES

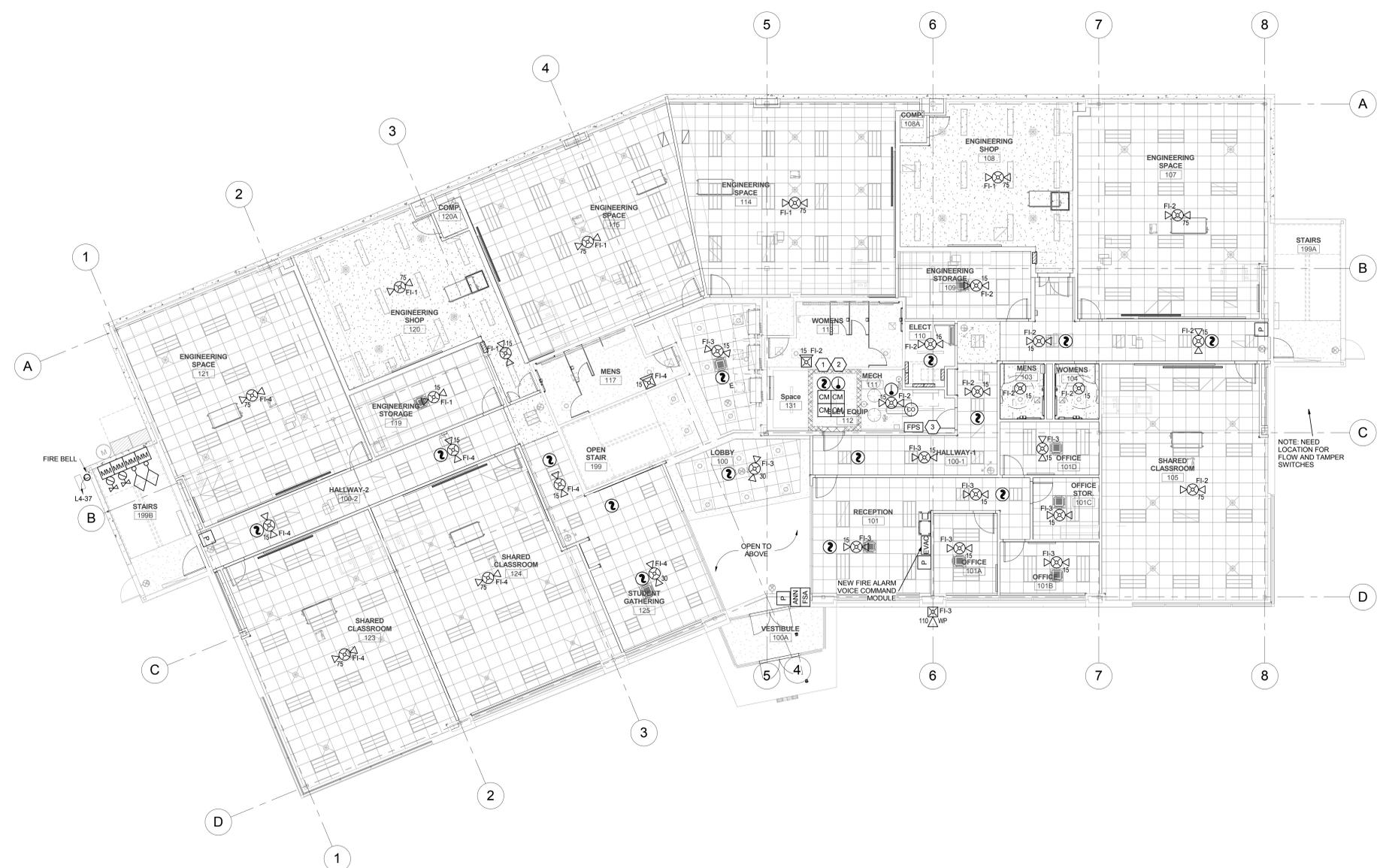
GENERAL SHEET NOTES

- 1 LOCATIONS OF FLOW AND TAMPER SWITCHES SHOWN ARE APPROXIMATE. FIELD VERIFY EXACT QUANTITY AND LOCATIONS OF FIRE SPRINKLER FLOW AND TAMPER SWITCHES WITH FIRE SPRINKLER INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

- 1 PROVIDE HEAT DETECTOR WITHIN 2 FT OF EACH ELEVATOR MACHINE ROOM AND SHAFT FIRE SPRINKLER AND ACTIVATE ELEVATOR SHUNT-TRIP UPON ALARM OF SAID HEAT DETECTORS. COORDINATE INSTALLATION WITH ACTUAL FIRE SPRINKLER CONFIGURATION DURING CONSTRUCTION.
- 2 PROVIDE ELEVATOR MAIN AND ALTERNATE LEVEL RECALL CONTROL, FIRE-HAT LIGHT ACTIVATION, SHUNT-TRIP CONTROL, AND SHUNT-TRIP POWER MONITORING PER NFPA 72 REQUIREMENTS. COORDINATE INSTALLATION WITH ELEVATOR PROVIDER DURING CONSTRUCTION.
- 3 PROVIDE CONTROL AND SUPERVISION OF REMOTE FA NAC POWER SUPPLIES PER NFPA 72 REQUIREMENTS. PROVIDE NOTIFICATION CIRCUITS AND POWER SUPPLY CAPACITY AIR.

REVISIONS:



1 MAIN LEVEL FIRE ALARM PLAN
 SCALE: 1/8" = 1'-0"



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MAIN LEVEL FIRE ALARM PLAN

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GENERAL SHEET NOTES

1 LOCATIONS OF FLOW AND TAMPER SWITCHES SHOWN ARE APPROXIMATE. FIELD VERIFY EXACT QUANTITY AND LOCATIONS OF FIRE SPRINKLER FLOW AND TAMPER SWITCHES WITH FIRE SPRINKLER INSTALLER PRIOR TO ROUGH-IN.

SHEET KEYNOTES

1 PROVIDE HEAT DETECTOR WITHIN 2 FT OF EACH ELEVATOR MACHINE ROOM AND SHAFT FIRE SPRINKLER AND ACTIVATE ELEVATOR SHUNT-TRIP UPON ALARM OF SAID HEAT DETECTORS. COORDINATE INSTALLATION WITH ACTUAL FIRE SPRINKLER CONFIGURATION DURING CONSTRUCTION.

2 PROVIDE ELEVATOR MAIN AND ALTERNATE LEVEL RECALL CONTROL, FIRE-HAT LIGHT ACTIVATION, SHUNT-TRIP CONTROL, AND SHUNT-TRIP POWER MONITORING PER NFPA 72 REQUIREMENTS. COORDINATE INSTALLATION WITH ELEVATOR PROVIDER DURING CONSTRUCTION.

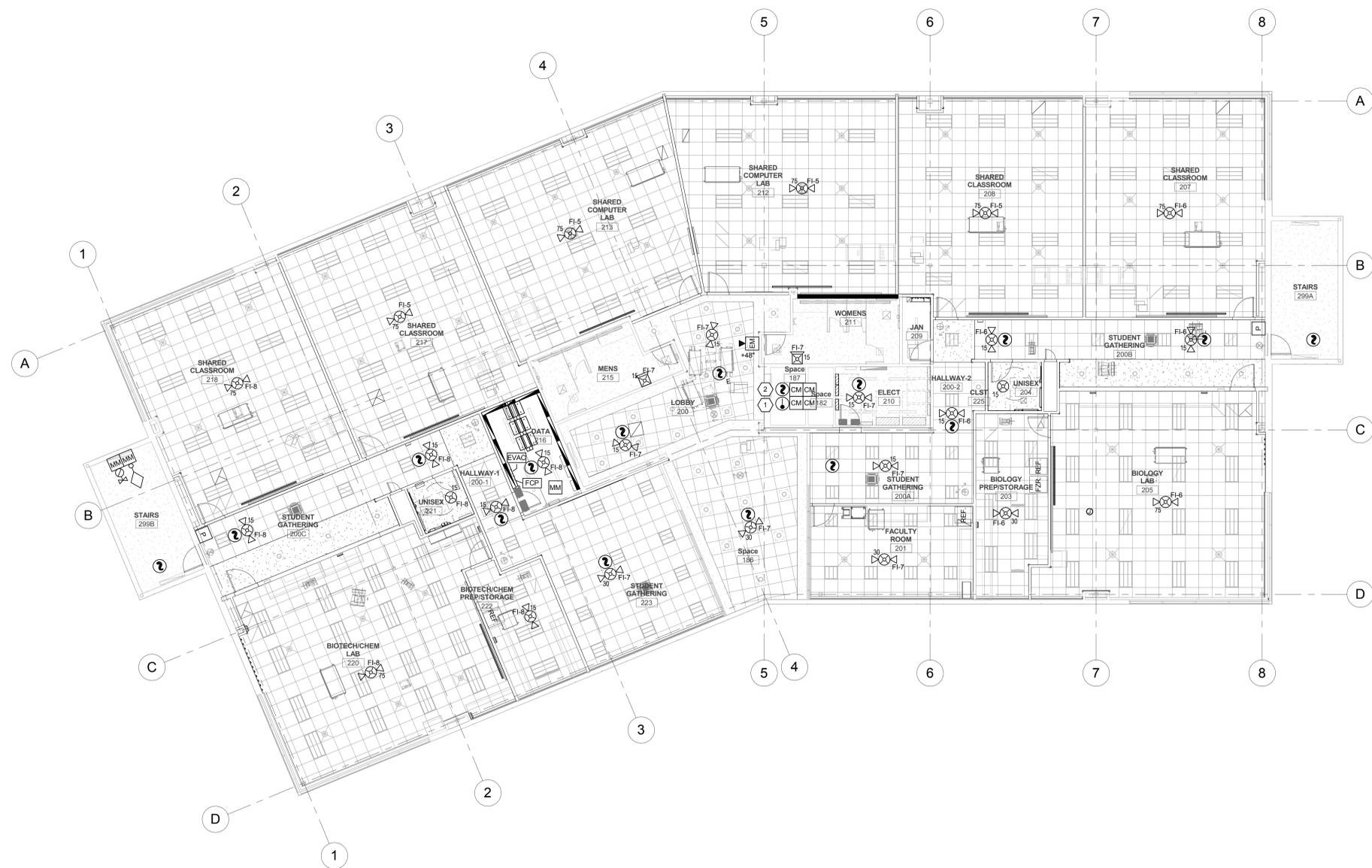


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1 SECOND LEVEL FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



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**SECOND LEVEL FIRE ALARM
PLAN**

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GENERAL SHEET NOTES

1 LOCATIONS OF DUCT SMOKE DETECTORS SHOWN ARE APPROXIMATE. COORDINATE EXACT QUANTITY AND LOCATIONS WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN.

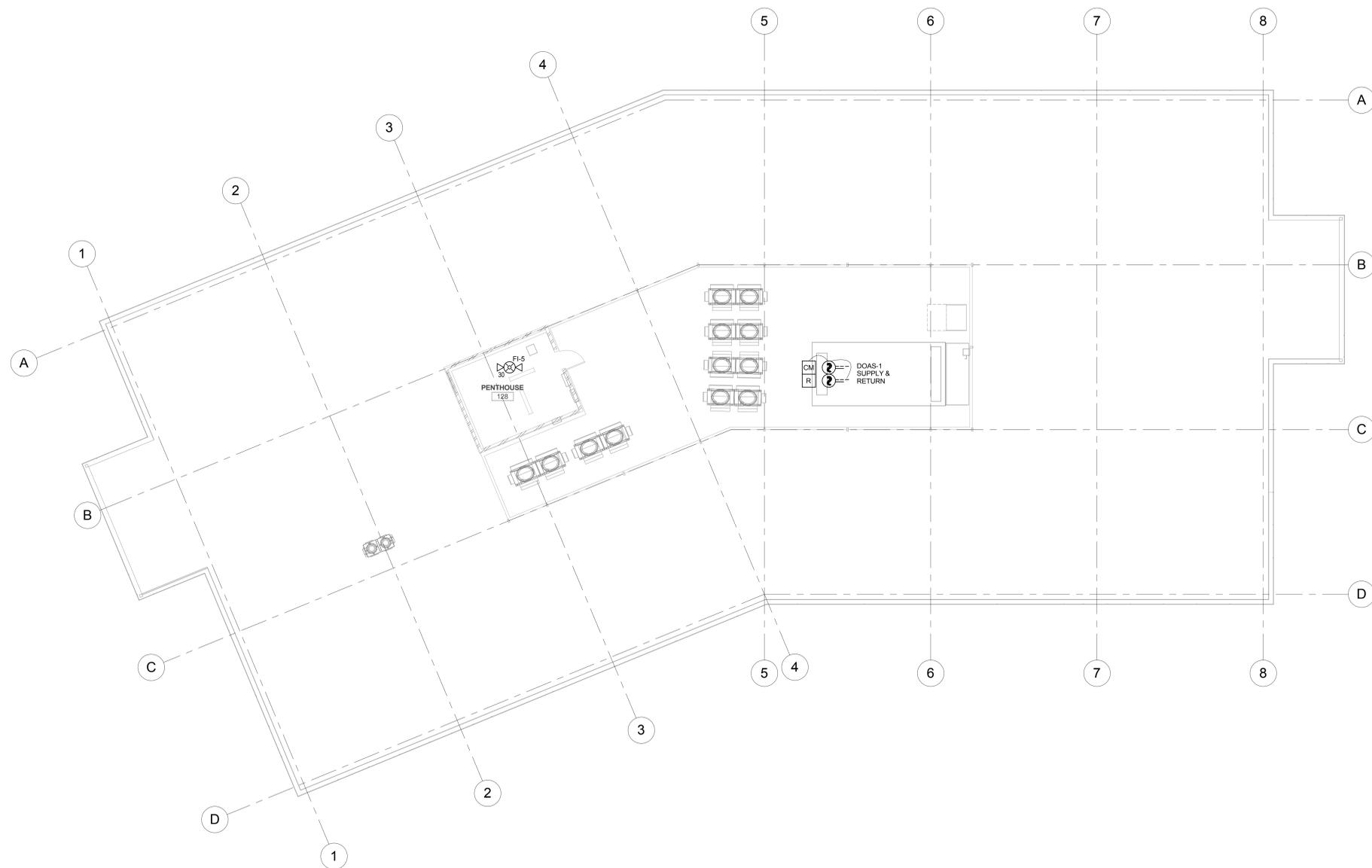
SHEET KEYNOTES

REVISIONS:

NO.	DESCRIPTION



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1 ROOF/PENTHOUSE FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



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**PENTHOUSE/ROOF FIRE
ALARM PLAN**

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GENERAL SHEET NOTES

- PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
- PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
- PLANS ARE BASED UPON 2 AMPS AT 24 VDC, NOT TO EXCEED 75% (1.50 AMPS AVAILABLE). POWER SUPPLY CAPACITY PER NOTIFICATION CIRCUIT. NOTIFICATION DEVICE LOADS ARE BASED UPON NOTIFICATION DEVICE SCHEDULE SHOWN. INCLUDE ADDITIONAL ASSOCIATED COSTS FOR INCREASED WIRING AND POWER SUPPLY CAPACITY IF LOADS OF ACTUAL DEVICES PROVIDED EXCEED CIRCUIT CAPACITY, OR IF LOAD OUTPUT OF ACTUAL POWER SUPPLIES PROVIDED IS SIZED DIFFERENTLY. PROVIDE SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION.
- FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.
- HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN SPRINKLER HEAD.
- PROVIDE POWER SUPPLY CAPACITY AS REQUIRED FOR DOOR HOLD OPENS SHOWN.
- BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.
- VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
- RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.
- PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.
- PROVIDE DUCT DETECTOR AT EACH FLOOR, PRIOR TO CONNECTION TO A COMMON RETURN AND PRIOR TO RECIRCULATING OR FRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY AND SERVING MORE THAN ONE STORY.
- PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.
- LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.
- PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.
- INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.
- ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
- HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.
- INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

INITIATING DEVICES	ZONE	OUTPUT DEVICES							NOTES
		GENERAL ALARM	ELEVATOR RECALL MAIN LEVEL	ELEVATOR RECALL ALTERNATE LEVEL	FAN SHUTDOWN	ELEVATOR SHUNT TRIP	TROUBLE SIGNAL	SUPPLEMENTAL SIGNAL	
1	MAIN FLOW	•							
2	MAIN TAMPER					•			
3	MAIN LEVEL FLOW	•							
4	MAIN LEVEL TAMPER					•			
5	MAIN LEVEL ELEVATOR DETECTOR	•	•						
6	2ND LEVEL INITIATING LOOP	•							
7	2ND LEVEL ELEVATOR DETECTOR	•	•						
8	ELEVATOR SPRINKLER HEAT DETECTORS	•	•		•				
9	DOAS-1 DUCT DETECTOR			•			•		
10	CKT TROUBLE						•		
11	AC POWER LOSS						•		
12	SYSTEM TROUBLE						•		
13	LOW BATTERY POWER						•		
14	FPS TROUBLE						•		
15									
16									

WIRING SCHEDULE

FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

NOTIFICATION SCHEDULE*

SYMBOL	STROBE SIZE	COVERAGE	AVERAGE CURRENT	MAXIMUM PER CIRCUIT ALONE	
☒	15	15 CD	20'x20'	.120A	12
☒	30	30 CD	30'x30'	.150A	10
☒	75	75 CD	40'x40'	.220A	6
☒	110	110 CD	50'x50'	.270A	5

* CURRENT DRAWS SHOWN ARE FOR EXAMPLE PURPOSE ONLY. BASE ALL NAC CALCULATIONS UPON SPECIFIC DEVICES PROVIDED.

INDICATING LOOP LEGEND

INDICATING LOOP	DESCRIPTION
FI-1	LEVEL 1 CENTER ENGINEERING SPACES
FI-2	LEVEL 1 SOUTH CLASS/UTILITY ROOMS AND HALLWAY
FI-3	LEVEL 1 OFFICES AND LOBBY SPACE
FI-4	LEVEL 1 NORTH CLASSROOMS AND HALLWAY
FI-5	LEVEL 2 CENTER COMPUTER/CLASS ROOMS AND PENTHOUSE
FI-6	LEVEL 2 SOUTH LAB AND CLASSROOM
FI-7	LEVEL 2 LOBBY AND STUDENT GATHERING SPACE
FI-8	LEVEL 2 NORTH LAB AND CLASSROOM

ADDRESSABLE LOOP LEGEND

INITIATING LOOP	DESCRIPTION
FA-1	BUILDING INITIATION LOOP



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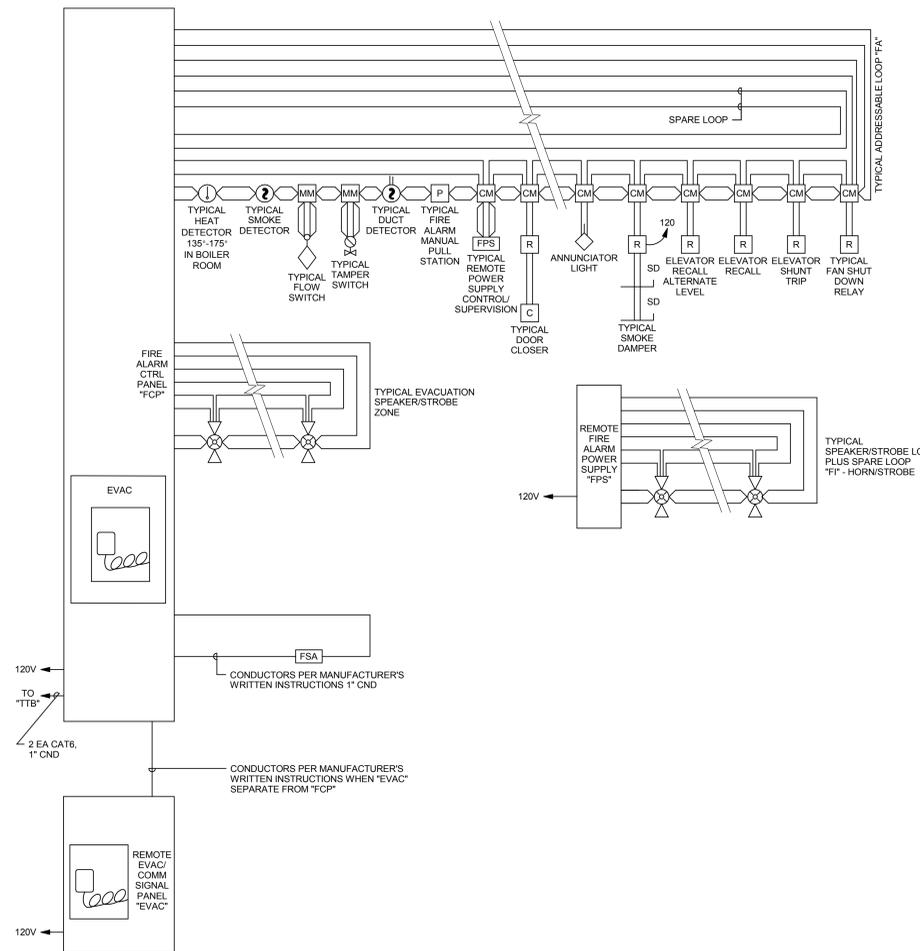
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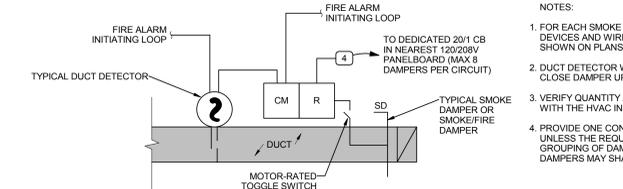
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FIRE ALARM RISER



1 FIRE ALARM RISER DIAGRAM
SCALE: NTS



2 TYPICAL SMOKE DAMPER FIRE ALARM DETAIL
SCALE: NTS

- NOTES:
- FOR EACH SMOKE DAMPER SHOWN ON PLANS, PROVIDE ALL DEVICES AND WIRING PER THIS DETAIL. THESE ARE NOT SHOWN ON PLANS FOR LEGIBILITY PURPOSES.
 - DUCT DETECTOR WITHIN 5' OF EVERY SMOKE DAMPER TO CLOSE DAMPER UPON ACTIVATION PER IMC REQUIREMENTS.
 - VERIFY QUANTITY AND LOCATIONS OF ALL SMOKE DAMPERS WITH THE HVAC INSTALLER.
 - PROVIDE ONE CONTROL MODULE PER SMOKE DAMPER, UNLESS THE REQUIRED CONTROL SEQUENCE ALLOWS GROUPING OF DAMPERS, IN WHICH CASE EACH GROUPING OF DAMPERS MAY SHARE ONE CONTROL MODULE.

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