

REV	DATE	REVISIONS
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

Dampers for Fire Barrier and Smoke Applications

[See General Information for Dampers for Fire Barrier and Smoke Applications](#)

GREENHECK FAN CORP
400 KOSSE AVE.
PO BOX 410
SCHOFIELD, WI 54476-0410 USA

R13317

Fire Dampers for Use In Static Systems

Model	Dr Class	Damper Mounting Position	Single Section Damper Size, In.		Multiple Section Damper Size, In.		
			W	H	W	H	
FSD(M)100(A)	1-1/2	V	48	48	—	—	
QFSD(M)100(A)	1-1/2	H, V	36	36	—	—	
FSD(M)110(A)	1-1/2	H, V	48	48	96	48	
QFSD(M)110(A)	1-1/2	H, V	36	36	—	—	
FSD(M)150(A)	1-1/2	H, V	48	48	120	40	
					96	48	
		V	37	37	74	74	
QFSD(M)150(A)	1-1/2	H, V	36	36	—	—	
FSD(M)150(A)	1-1/2	H, V	48	48	—	—	
QFSD(M)150X	1-1/2	H, V	36	36	—	—	
SSFD(M)150(A)	1-1/2	V	48	48	120	40	
					96	48	
		H	36	36	—	—	
QSSFD(M)150(A)	1-1/2	H, V	36	36	—	—	
FSD(M)300(A), FSD310(A), SSFD(M)350(A)	3	V	48	48	—	—	
FSD(M)350(A)	3	V	48	48	—	—	
		H	40	40	80	40	
KFSD(M)110(A)	1-1/2	H, V	36	36	16	96	48
KFSD(M)150(A)	1-1/2	H, V	36	36	16	120	40
					96	48	
SSKFSD(M)150(A)	1-1/2	V	36	36	16	120	40
					96	48	
KFSD(M)310(A), SSKFSD(M)350(A)	3	V	36	36	16	—	—
KFSD(M)350(A)	3	H	36	36	16	80	40
		V	36	36	16	—	—

<http://database.ul.com/cgi-bin/XYV/template.DEXT?FRAME=shoppage&url=Theme:EMMER13317&icon=border=Dampers+for+Fire+Barrier+and+Smoke...> 1/10

Fire Dampers for Use In Dynamic Systems

Model	Dr Class	Damper Mounting Position	Single Section Damper Size, In.		Multiple Section Damper Size, In.	
			W	H	W	H
FSD(M)=110(A), FSD(M)=150(A)	1- 1/2	V	36	36	48	36
		V	36	36	72	48
					60	60
					120	30
FSD(M)=150(X)	1- 1/2	H	36	36	—	—
		V	36	36	—	—
QFSD(M)=110(A), QFSD(M)=150(A)	1- 1/2	H, V	36	36	—	—
QFSD(M)=150(X)	1- 1/2	V	36	36	—	—
QFSD(M)=150(A), FSD(M)=150(A)	3	H	30	30	—	—
		V	36	36	—	—
FSD(M)=350(A)	3	H	24	18	48	36
SSQFSD(M)=110(A), SSQFSD(M)=150(A), SSQFSD(M)=150(X)	1- 1/2	V	30	30	—	—
SSQFSD(M)=150(A)	1- 1/2	H, V	30	30	—	—
SSQFSD(M)=150(A), SSQFSD(M)=150(A)	1- 1/2	V	30	30	—	—
SSQFSD(M)=250(A)	3	V	30	30	—	—
FSD(M)=210	1- 1/2	H, V	36	36	—	—
		H	32	50	128	96
		V	32	50	128	100
SSQFSD(M)=210, SSQFSD(M)=210	1- 1/2	H, V	24	30	48	30
DFDFT210	1- 1/2	H	32	36	96	72
		V	32	48	32	96
		V	32	36	96	72
		V	32	50	96	50
		V	36	36	—	—
FSD(M)=230	3	H, V	36	36	—	—
			32	48	72	48
QFSD(M)=210	1- 1/2	H, V	36	36	—	—
QFSD(M)=210	1- 1/2	H	32	50	144	96
QFSD(M)=210	1- 1/2	V	32	50	128	100
QFSD(M)=230	3	V	32	36	—	—

<http://database.ul.com/cgi-bin/XYV/template.DEXT?FRAME=shoppage&url=Theme:EMMER13317&icon=border=Dampers+for+Fire+Barrier+and+Smoke...> 2/10

Dampers rated 2000 fpm / 10.0 in. WC						
Model	Dr Class	Damper Mounting Position	Single Section Damper Size, In.		Multiple Section Damper Size, In.	
			W	H	W	H
DFD(M)210	1-1/2	H, V	32	50	64	50
DFD(M)230	3	H, V	32	48	64	48

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Consultant:



Project
UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

A PORTION OF
THE SOUTHEAST QUARTER OF THE SOUTH HALF
OF SECTION 22, TOWNSHIP 21S, RANGE 61E
CLARK COUNTY, NEVADA
P/O A.P.N.:162-22-601-001

- (1) N/A 24" \times SECTION 4.1.3
- (2) NAME: OWNER: UNIVERSITY OF MARYLAND, LAS VEGAS
- (3) LOCATION: 4500 MARYLAND PARKWAY
- (4) POINT OF COMPASS: SEE PLAN SHEETS
- (5) GRAPHIC REPRESENTATION: SEE SCALE USED: SEE PLAN SHEETS
- (6) CONTRACTOR:
- (7) SIZE & LOCATION OF WATER SUPPLIES, SEE UTILITY PLAN
- (8) SIZE & LOCATION OF STANDPIPE RISERS, HOSE OUTLETS, HAND HOSE MONITOR NOZZLES AND RELATED EQUIPMENT: N/A FOR THIS PROJECT
- (9) PRIVATE FIRE SERVICE MANHOLES:
 - (a) SIZE: SEE UTILITY PLAN SHEET
 - (b) LENGTH: SEE UTILITY PLAN SHEET
 - (c) LOCATION: SEE UTILITY PLAN SHEET
 - (d) WEIGHT: CLASS 150, OR CURE
 - (e) MATERIAL: PVC
- (10) POINT OF CONNECTION TO CITY MAIN: FLAMINGO & MARYLAND PKY.
 - (a) SIZES, TYPES AND LOCATIONS OF VALVES, VALVE INDICATORS, REGULATORS, PRESSURE AND VACUUM GAUGES, AND OTHER INSTRUMENTS ON THE UTILITY PLAN SHEET, SHALL BE SHOWN ON THIS SHEET. VALVE INDICATORS, REGULATORS, AND THRUST AND VALVE PITS ARE NOT REQUIRED
 - (b) DEPTH TO TOP OF PIPE: 5' FEET
 - (c) METHOD OF RESTRAINT: CONCRETE THURST BLOCKS
- (11) HYDRANTS:
 - (a) SIZE AND LOCATION, INCLUDING SIZE & NUMBER OF OUTLETS AND WHETHER THE OUTLETS ARE TO BE USED WITH INDEPENDENT GATE VALVES. FOR LOCATION SEE UTILITY PLAN. 3 OUTLETS WITH 5-1/4" MAIN VALVE OPENING
 - (b) SIZE AND LOCATION OF HYDRANT VALVE SHALL BE SHOWN ON THIS PROJECT
 - (c) THREAD SIZE AND COUPLING ARE PER NFPA 1963
 - (d) HOSE HOUSES AND ADJACENT TO HYDRANT SHALL BE SHOWN ON THIS PROJECT
 - (e) STATIC AND RESIDUAL HYDRANT HEADS IN FLOW TEST: HYDRANTS LOCATED ADJACENT TO PROJECT SITE
 - (f) METHOD OF RESTRAINT: CONCRETE THRUST AND ANCHOR BLOCKS
- (12) SIZE, LOCATION AND PIPING ARRANGEMENT OF FIRE DEPARTMENT CONNECTIONS: SEE LOCATION AND PIPING ARRANGEMENT SIZE ARE INDICATED ON THE UTILITY PLAN FOR PIPING ARRANGEMENT SEE FIRE SPRINKLER PLANS

NOTE: ALL WORK SHALL CONFORM TO LAWS, REGULATIONS, CODES AND ORDINANCES OF FEDERAL, STATE, COUNTY CITY OR ANY OTHER JURISDICTION AS EACH MAY APPLY.

GENERAL CODE REQUIREMENTS

1. INTERNATIONAL BUILDING CODE: 2012 EDITION;
2. LUMBERING SHALL CONFORM TO THE 2012
3. MECHANICAL SHALL CONFORM TO THE 2012 UMC
4. ELECTRICAL SHALL COMPLY WITH THE 2012 NEC
5. 2010 ADA/ADAA
6. NFPA 101
ADDITIONALLY, REQUIRED COMPLIANCE WITH THE STATE FIRE MARSHAL ADOPTED CODES AS A MINIMUM STANDARD.
THE CODES ARE AS FOLLOWS:
1. INTERNATIONAL FIRE CODE: 2012 EDITION, VOLUME 1
2. INTERNATIONAL BUILDING CODE: 2012 EDITION, VOLUMES 1 AND 2
3. UNIFORM MECHANICAL CODE: 2012 EDITION
4. CODES AND STANDARDS 101,11,13,30,136,141,151,177A,20,22,24,25,306,50,50B,52,58,72,86,90A,90B,96,99,110
WHERE NO SPECIFIC CODES OR STANDARDS ARE SPECIFIED IN THE INTERNATIONAL BUILDING CODE, THE APPLICABLE

APPROVALS

CLARK COUNTY FIRE DEPARTMENT

CLARK COUNTY FIRE DEPARTMENT

DATE

SOUTHWEST GAS CORPORATION

SOUTHWEST GAS CORPORATION

DATE

LAS VEGAS VALLEY WATER DISTRICT APPROVED FOR CONSTRUCTION

LAS VEGAS VALLEY WATER DISTRICT ENGINEERING SERVICES MANAGER
PROJECT NO. XXXX SHEETS: XXXXX
LVWVD APPROVED FIRE FLOW = XXXX GPM AT 20 PSI RESIDUAL

DATE

COX COMMUNICATIONS LAS VEGAS, INC

COX COMMUNICATIONS LAS VEGAS, INC.

DATE

NV ENERGY

NV ENERGY

DATE

NV ENERGY COMPANY ACKNOWLEDGES THAT WE HAVE RECEIVED YOUR PLANS AND WILL PROVIDE SERVICE TO ALL ELECTRICAL NEEDS ASSOCIATED WITH THIS PROJECT. NV ENERGY COMPANY RESERVES THE RIGHT TO ADDRESS ANY EXISTING OR FUTURE CONFLICTS ONCE THE FINAL DESIGN IS COMPLETED. THE NEW SERVICE AND THE RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO THE NEVADA PUBLIC UTILITY COMMISSION'S RULES AND REGULATIONS.

CENTURYLINK

CENTRAL TELEPHONE COMPANY D.B.A. CENTURYLINK

DATE

THE AFFIXED CENTURYLINK APPROVAL DOES NOT ASSUME OR GUARANTEE LIABILITY FOR KNOWN OR UNKNOWN CONFLICT WITH EXISTING OR PROPOSED IMPROVEMENTS. RESOLUTION OF ANY CONFLICT WILL BE ACCOMPLISHED PURSUANT TO LOCAL ORDINANCES, OR NEVADA REVISED STATUTES AND/OR PUBLIC UTILITY COMMISSION RULES AND REGULATIONS.

CLARK COUNTY WATER RECLAMATION DISTRICT

CLARK COUNTY WATER RECLAMATION DISTRICT

DATE

COWRD PROJECT CONTROL NUMBER IS _____ SIGNATURE OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR OR AN APPROVAL OF ANY VIOLATION OF CLARK COUNTY WATER RECLAMATION DISTRICT RULES, REGULATIONS, OR DESIGN AND CONSTRUCTION STANDARDS. THE APPROVAL OF THESE DRAWINGS DOES NOT GUARANTEE CAPACITY IN THE DISTRICT'S COLLECTION OR TREATMENT SYSTEM.

<h1 style="text-align: center;">UTILITY PROVIDERS</h1>	
WATER: SEWER: GAS: ELECTRIC: TELEPHONE: CABLE TV: TRASH:	LAS VEGAS VALLEY WATER DISTRICT CLARK COUNTY WATER RECLAMATION DISTRICT SOUTHWEST GAS CORPORATION NV ENERGY CENTURYLINK COX COMMUNICATIONS LAS VEGAS, INC. REPUBLIC SERVICES, INC.

<h2 style="text-align: center;">GENERAL SITE INFORMATION</h2>

NOTE: ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE.

A.P.N.:
162-22-001-001


BASIS OF BEARINGS:
GRID NORTH AS DEFINED BY THE NORTH AMERICAN DATUM OF 1983 (NAD '83), NEVADA STATE PLANE EAST (2703) ZONE, SAID BEARINGS WERE DETERMINED BY STATIC GLOBAL POSITIONING SYSTEM (GPS) MEASUREMENTS PROCESSED BY THE NATIONAL GEODETIC SURVEY DIVISION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION USING THE ON-LINE POSITIONING USER SERVICE (OPUS). THE REFERENCE FRAME USED WAS NAD '83 (GRS98) WITH AN EPOCH OF 2002.0000. ALL DISTANCES SHOWN HEREON ARE GROUND VALUES.

BENCHMARK:
CLARK COUNTY VERTICAL CONTROL #7C11 27NW86. ELEVATION 2098.565 (MSSL) 672.901 (MEANS) METER.

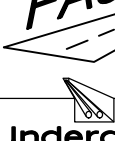
NOTE:
LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS PLAN ARE FROM THE BEST AVAILABLE INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES, INCLUDING BUT NOT LIMITED TO, THE WATER, FIRE, SANITARY SEWER, STORM SEWER, TELEPHONE, POWER, GAS, AND IRRIGATION LINES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. IF CONFLICT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE PROJECT ARCHITECT, OWNER'S REPRESENTATIVE, AND THE PROJECT ENGINEER IMMEDIATELY.

avoid hitting overhead power lines, it's costly

CALL BEFORE YOU DIG
avoid cutting underground utility lines, it's costly.




OR



FAST

Call before you dig
Underground
1-702-432-5000



[illegible]

Sheet Title

GENERAL COVER SHEET

Date: 06/17/2016

Sheet No:

C1.01

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Project

UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

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NEVADA, LAS VEGAS

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REVISIONS		
REV	DATE	DESCRIPTION
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

Sheet Title

PHASED FLOOR
PLANS

Date: 06/17/2016

Sheet No:

A1.01

GENERAL NOTES

- 1 ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD. MASONRY OR CONCRETE UNLESS NOTED OTHERWISE.
- 2 REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK NOT SHOWN ON THIS DRAWING.
- 3 REFER TO A2.30 FOR PARTITION TYPES. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING ALL CASEWORK.
- 4 DOOR JAMB AT HINGE SIDE SHALL BE A MINIMUM OF 4" FROM FACE OF PERPENDICULAR WALL, U.N.O.
- 5 PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND CEILINGS.
- 6 PROVIDE FIRESTOP SEALANT AT ALL PENETRATIONS THROUGH RATED WALLS.

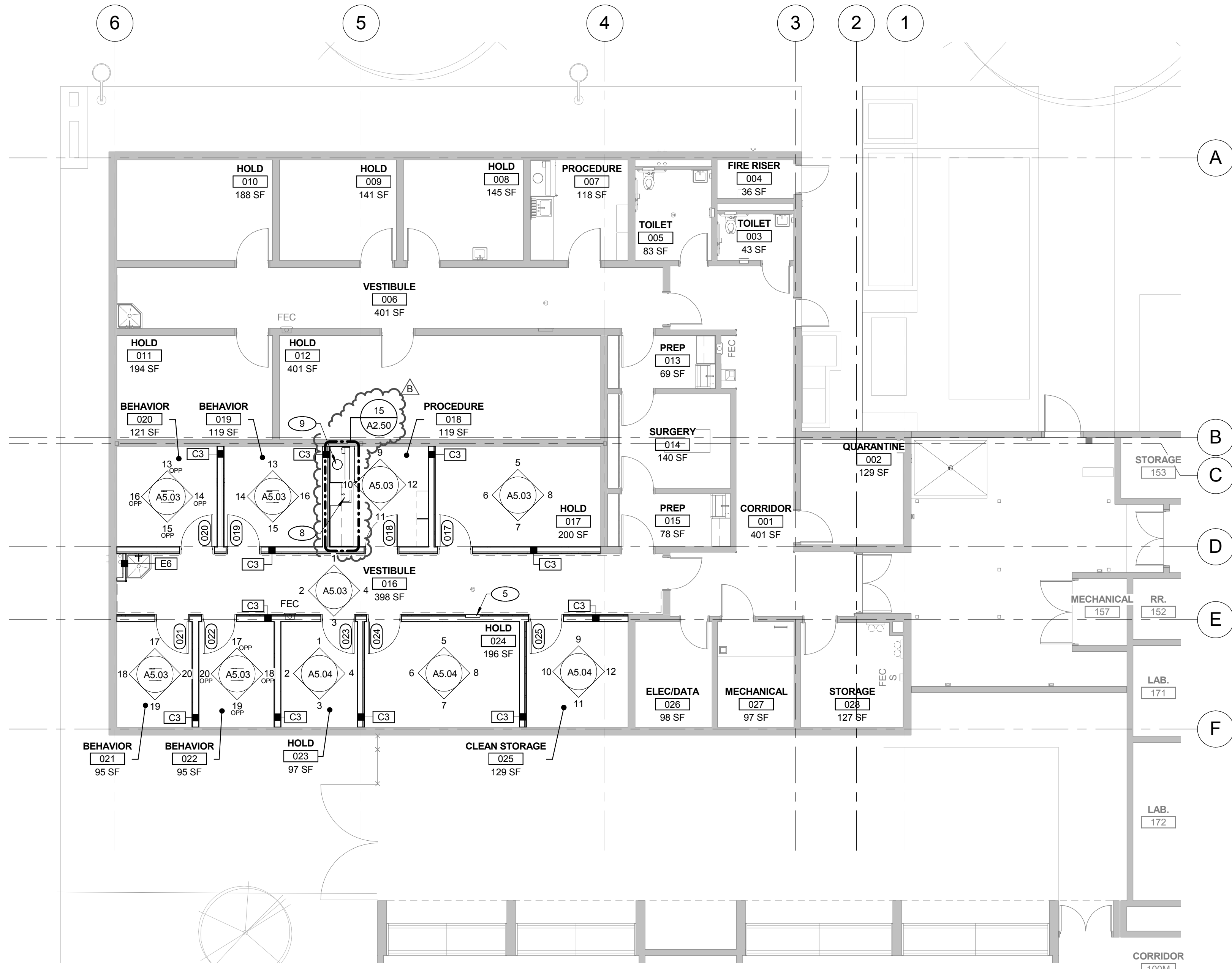
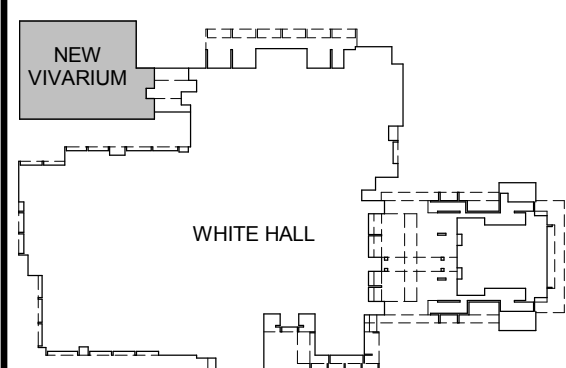
KEYNOTES

- 1 OF01 CARBON DIOXIDE CYLINDERS (2) AND OF01 GAS MANIFOLDS AND RESTRAINTS
- 2 OF01 OXYGEN CYLINDERS (2) AND OF01 GAS MANIFOLDS AND RESTRAINTS
- 3 STRUCTURAL COLUMN - REFER TO STRUCTURAL DRAWINGS
- 4 FLOOR DRAIN/FLOOR SINK - REFER TO PLUMBING DRAWINGS
- 5 SAFETY SHOWER/EYEWASH WITH SIGNAGE - REFER TO PLUMBING DRAWINGS. MOUNT SIGN PER 4/G1.01
- 6 MOP SINK - REFER TO PLUMBING DRAWINGS
- 7 ROOF ACCESS LADDER - PROVIDE METAL BACKING AS REQUIRED - REFER TO DETAIL 10/A4.10
- 8 SINK - REFER TO PLUMBING DRAWINGS
- 9 CHEMICAL FUME HOOD - OF01 CORRUGATED METAL CANOPY ABOVE. REFER TO ROOF PLAN
- 10 TUBE STEEL COLUMN FOR CANOPY ABOVE - REFER TO STRUCTURAL DRAWINGS
- 12 KNOX BOX 3200 SERIES, RECESS MOUNT WITH ALUMINUM FINISH - REFER TO BUILDING ELEVATIONS
- 13 ROOF DRAINS - REFER TO ROOF PLAN AND PLUMBING DRAWINGS
- 14 EXTEND EXISTING CHAINLINK FENCE TO NEW VIVARIUM BUILDING - MATCH EXISTING HEIGHT
- 15 HOUSEKEEPING PAD - REFER TO SLAB PLAN, MECHANICAL AND STRUCTURAL DRAWINGS
- 16 CORNER GUARD CG-1 - REFER TO MATERIAL SCHEDULE
- 17 FIRE DEPARTMENT CONNECTION - REFER TO CIVIL DRAWINGS

LEGEND

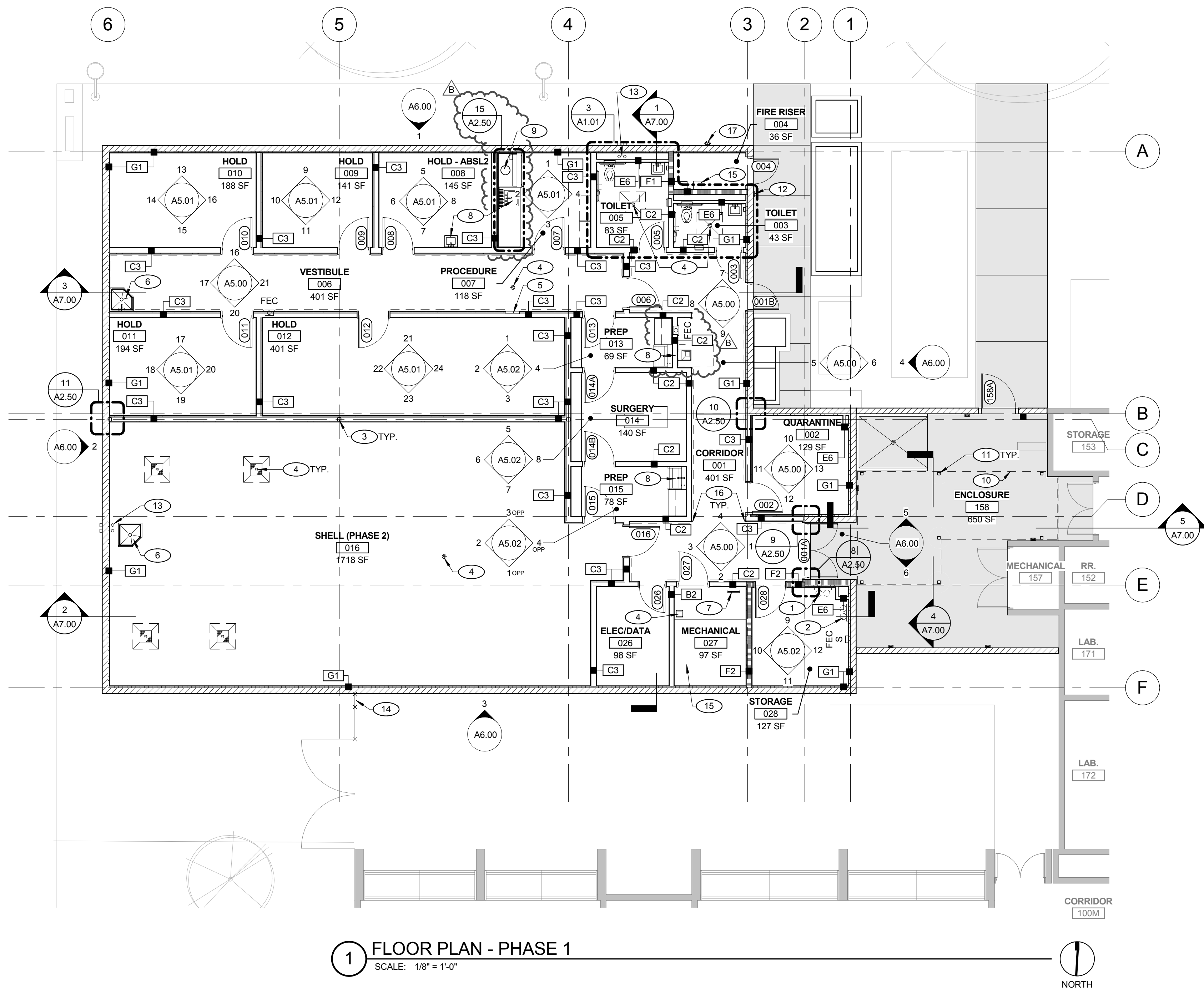
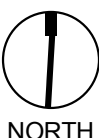
- ALUMINUM CRASH RAIL
- CMU WALL
- NON-RATED PARTITION
- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- FEC FIRE EXTINGUISHER

KEYPLAN



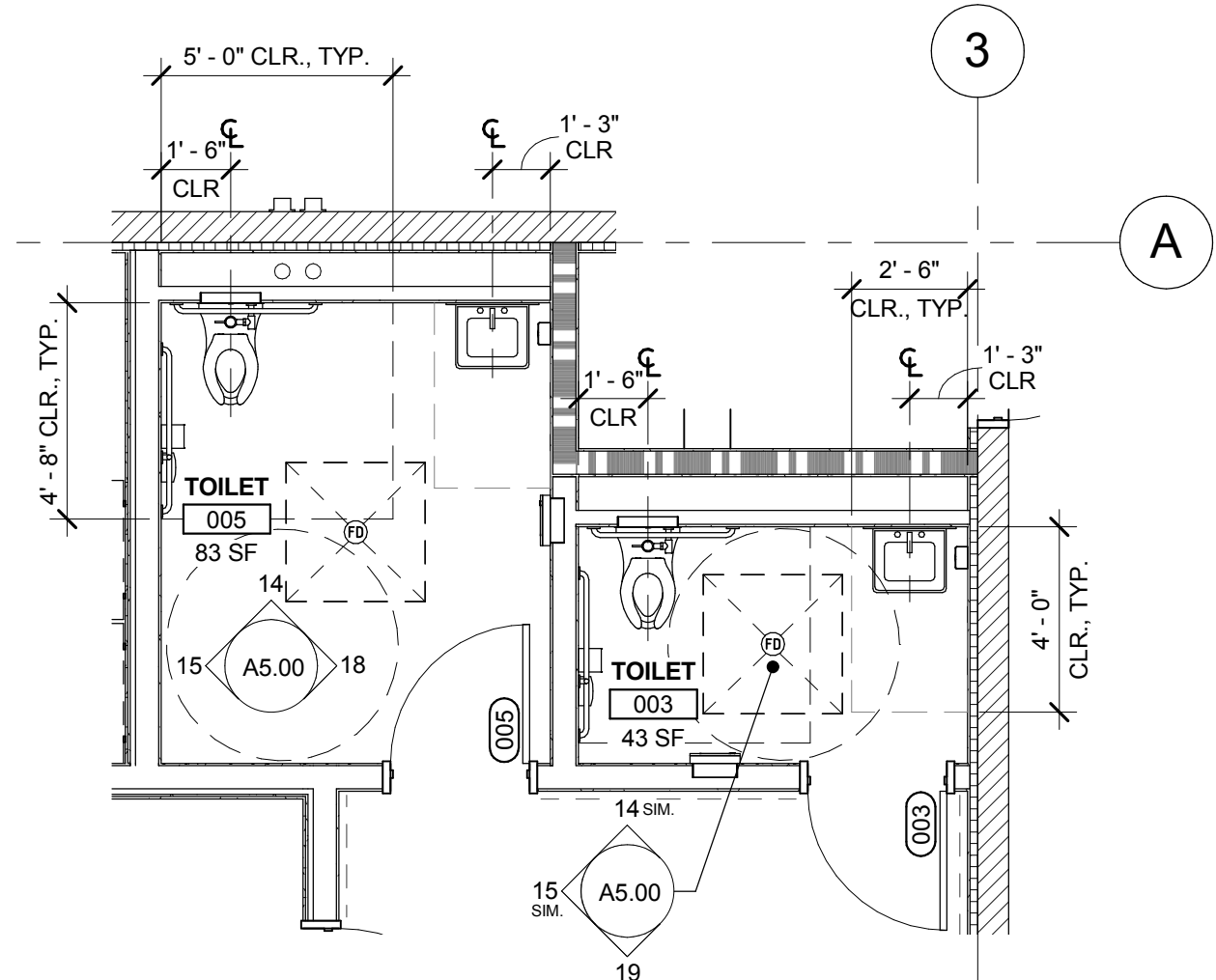
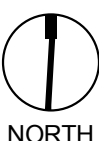
FLOOR PLAN - PHASE 2

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



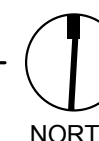
FLOOR PLAN - PHASE 1

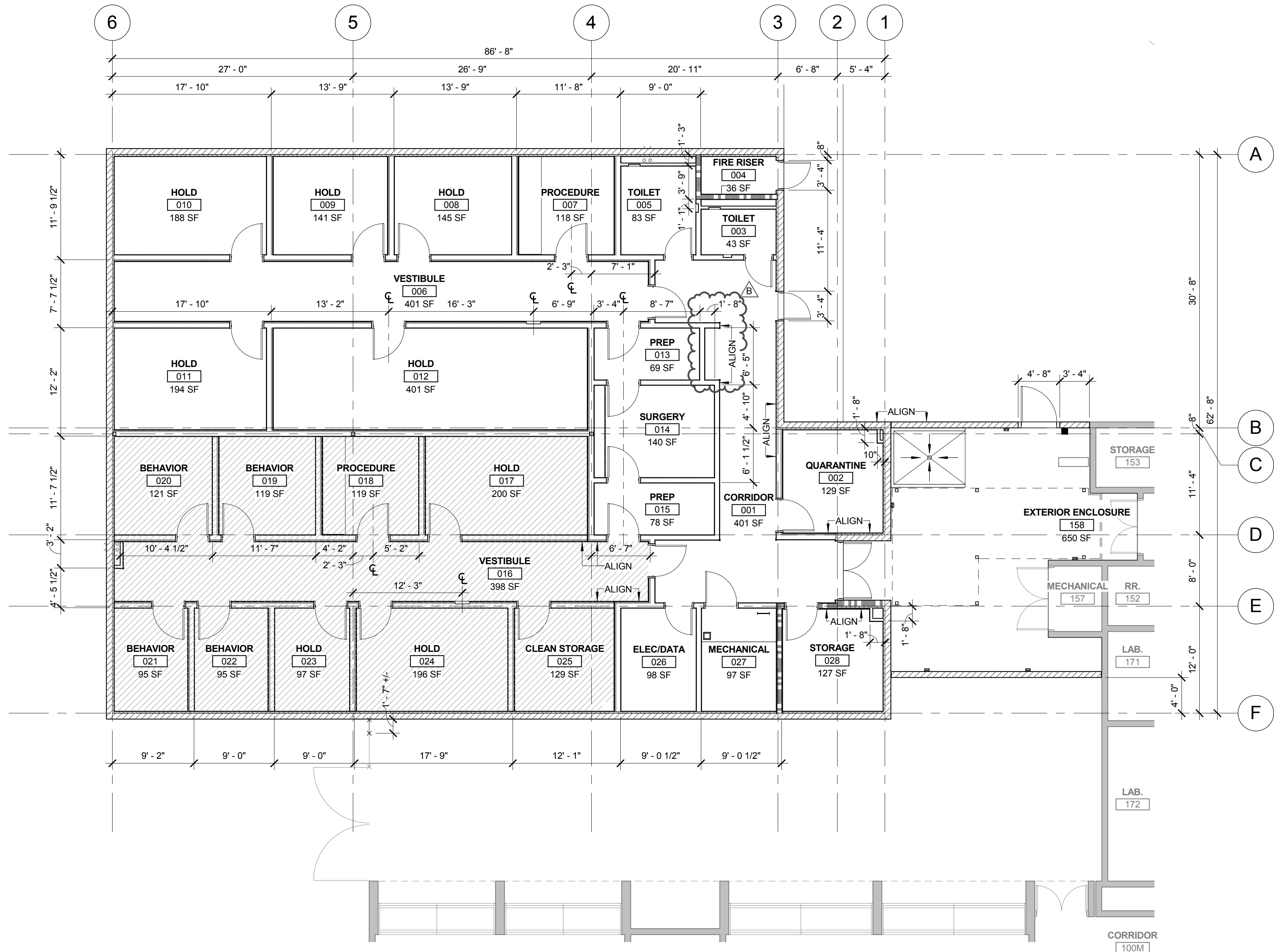
SCALE: 1/8" = 1'-0"



ENLARGED RESTROOM PLAN

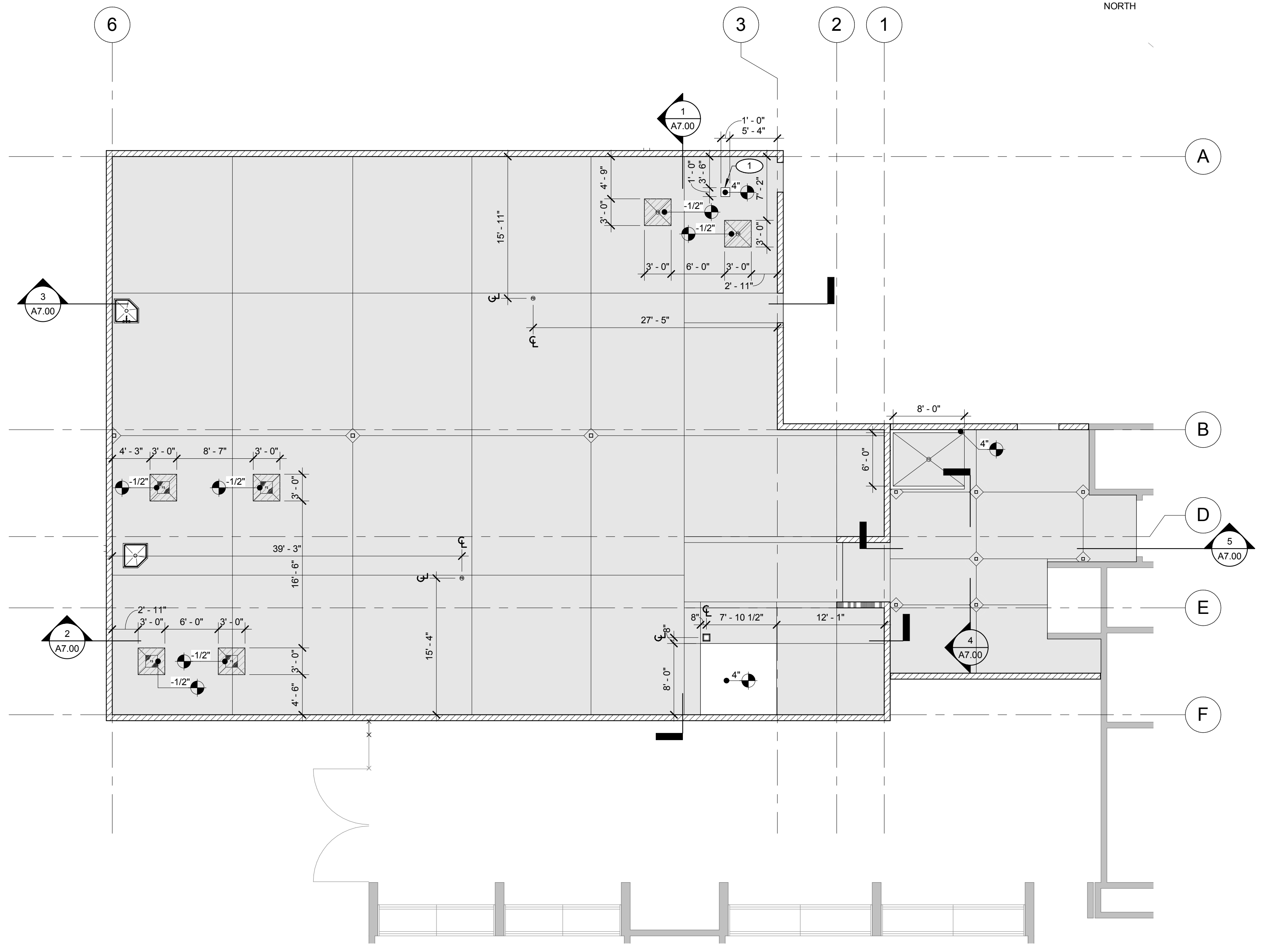
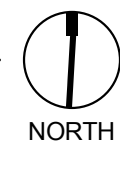
SCALE: 1/4" = 1'-0"



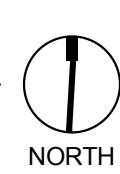


2 DIMENSIONAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NOTE: HATCHED AREA INDICATES PHASE 2



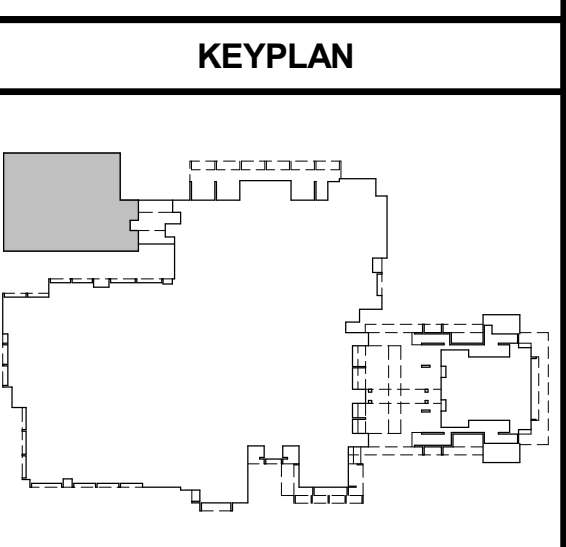
1 SLAB PLAN
SCALE: 1/8" = 1'-0"



- GENERAL NOTES**
- 1 ALL DIMENSIONS ARE TAKEN FROM FACE OF STUD. MASONRY OR CONCRETE UNLESS NOTED OTHERWISE.
 - 2 REFER TO CIVIL, LANDSCAPE, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL WORK NOT SHOWN ON THIS DRAWING.
 - 3 REFER TO A2.30 FOR PARTITION TYPES.
 - 4 FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING ALL CASEWORK.
 - 5 DOOR JAMB AT HINGE SIDE SHALL BE A MINIMUM OF 4" FROM FACE OF PERPENDICULAR WALL U.N.O.
 - 6 PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND CEILINGS.
 - 7 PROVIDE FIRESTOP SEALANT AT ALL PENETRATIONS THROUGH RATED WALLS.

- KEYNOTES**
- 1 COORDINATE LOCATION OF HOUSEKEEPING PAD WITH INSTALLATION OF FIRE RISER DRAIN

- LEGEND**
- INDICATES PHASE 2
 - CONCRETE SLAB
 - DEPRESSED SLAB
 - HOUSEKEEPING PAD
 - CONCRETE JOINT - REFER TO STRUCTURAL
 - FLOOR DRAIN
 - FLOOR SINK



tsk

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Suite 230
Henderson, NV 89015
phone: 702.456.3000
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www.tska.com

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Owner
**UNIVERSITY OF
NEVADA, LAS VEGAS**

PERMIT SET

REVISIONS	
REV	DESCRIPTION
B	08/19/16 ADDENDUM B

Sheet Title
**SLAB AND
DIMENSIONAL PLANS**

Date: 06/17/2016
Sheet No:

A1.21

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LAS VEGAS, NV 89154

Job No: 15-061

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NEVADA, LAS VEGAS**PERMIT SET**[illegible]

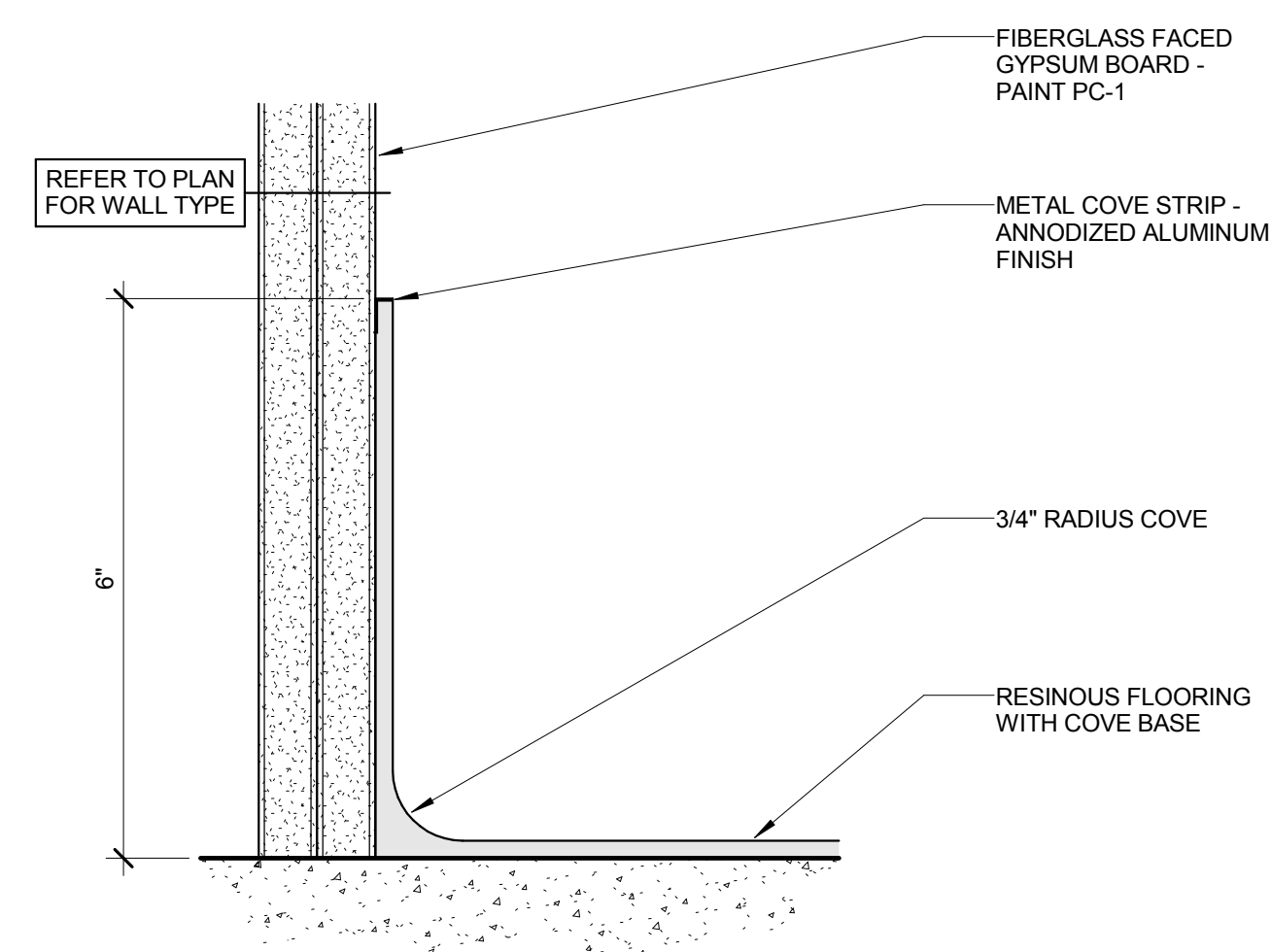
Sheet Title

MISCELLANEOUS DETAILS

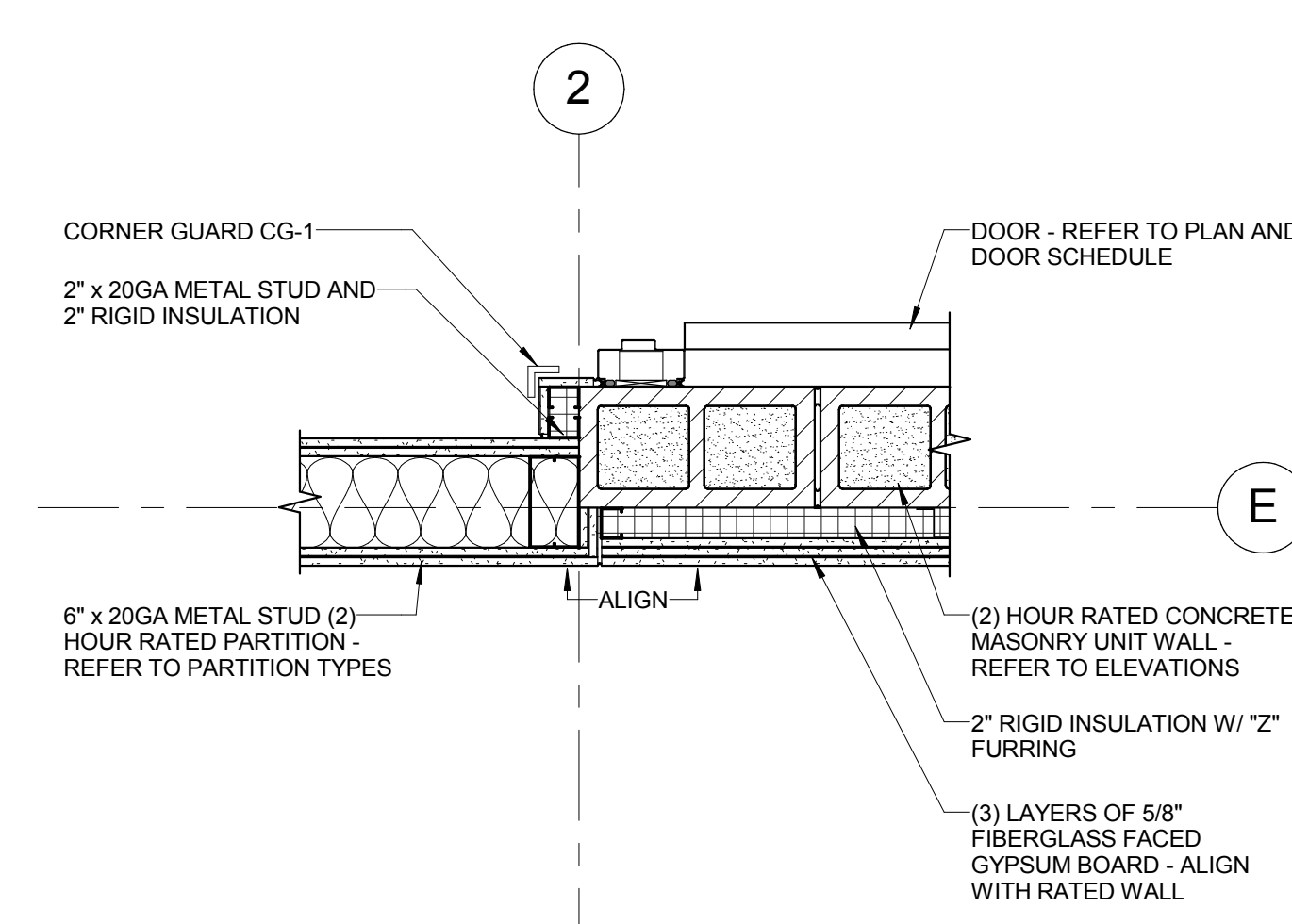
Date: 06/17/2016

Sheet No:

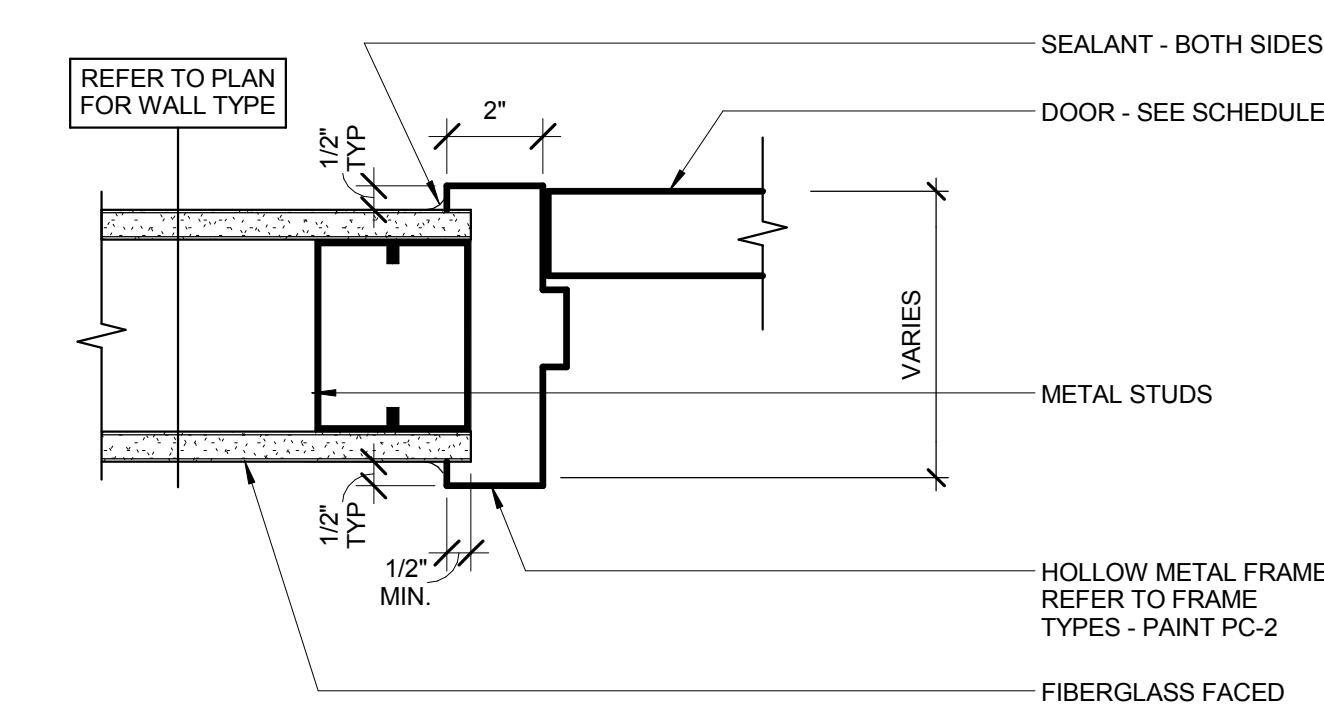
A2.50



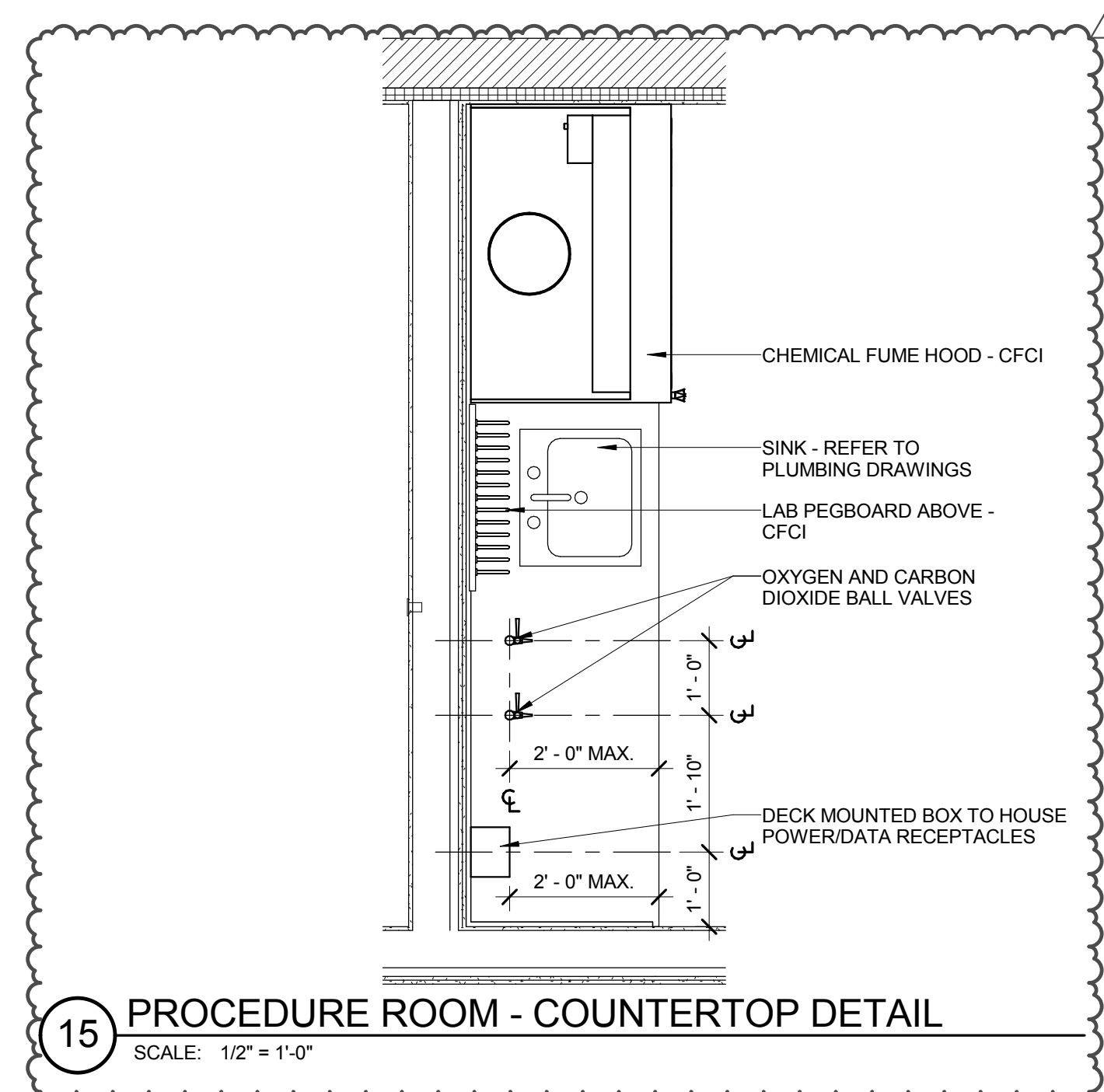
12 COVE BASE DETAIL
SCALE: 6" = 1'-0"



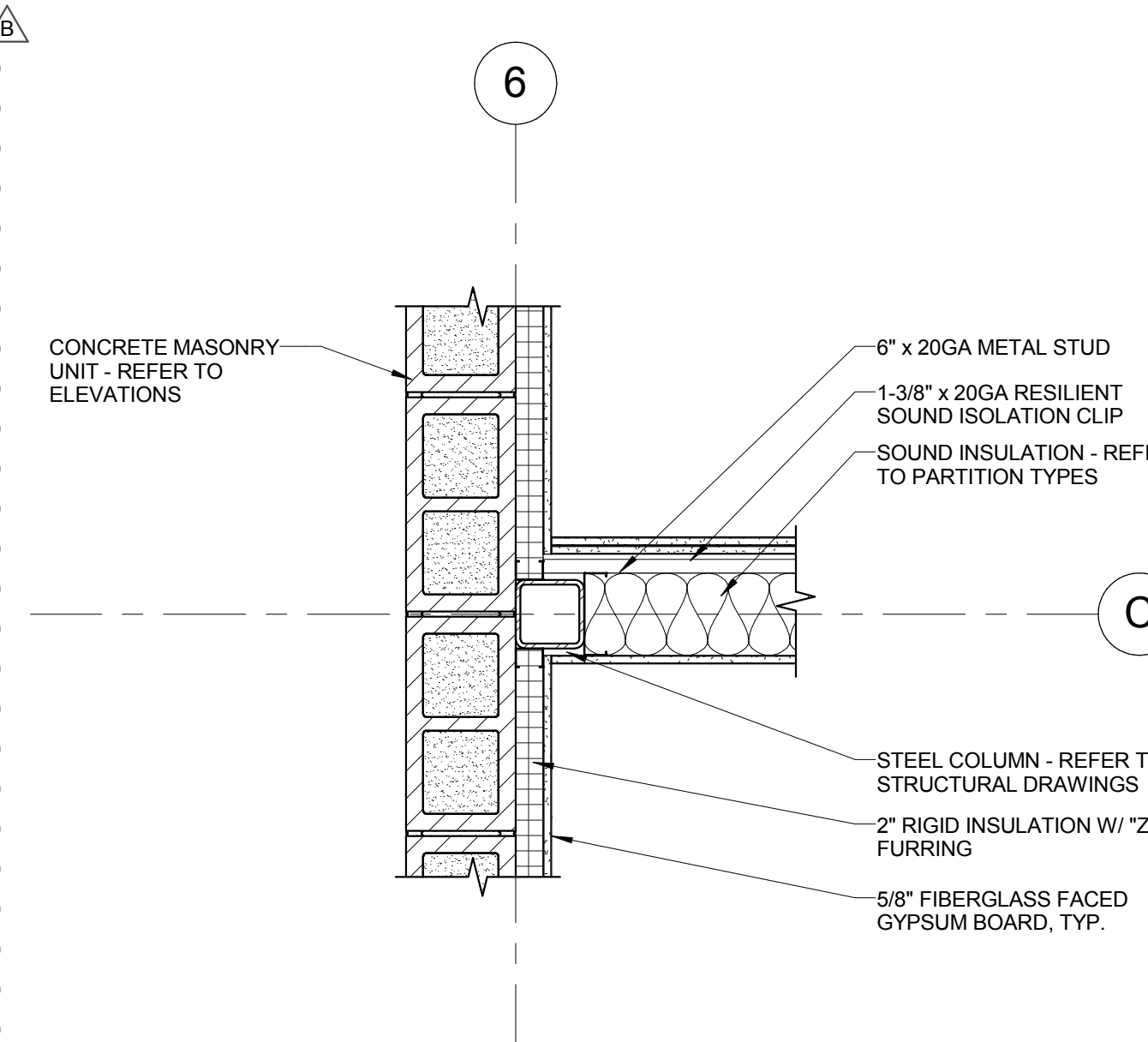
8 PARTITION DETAIL
SCALE: 1" = 1'-0"



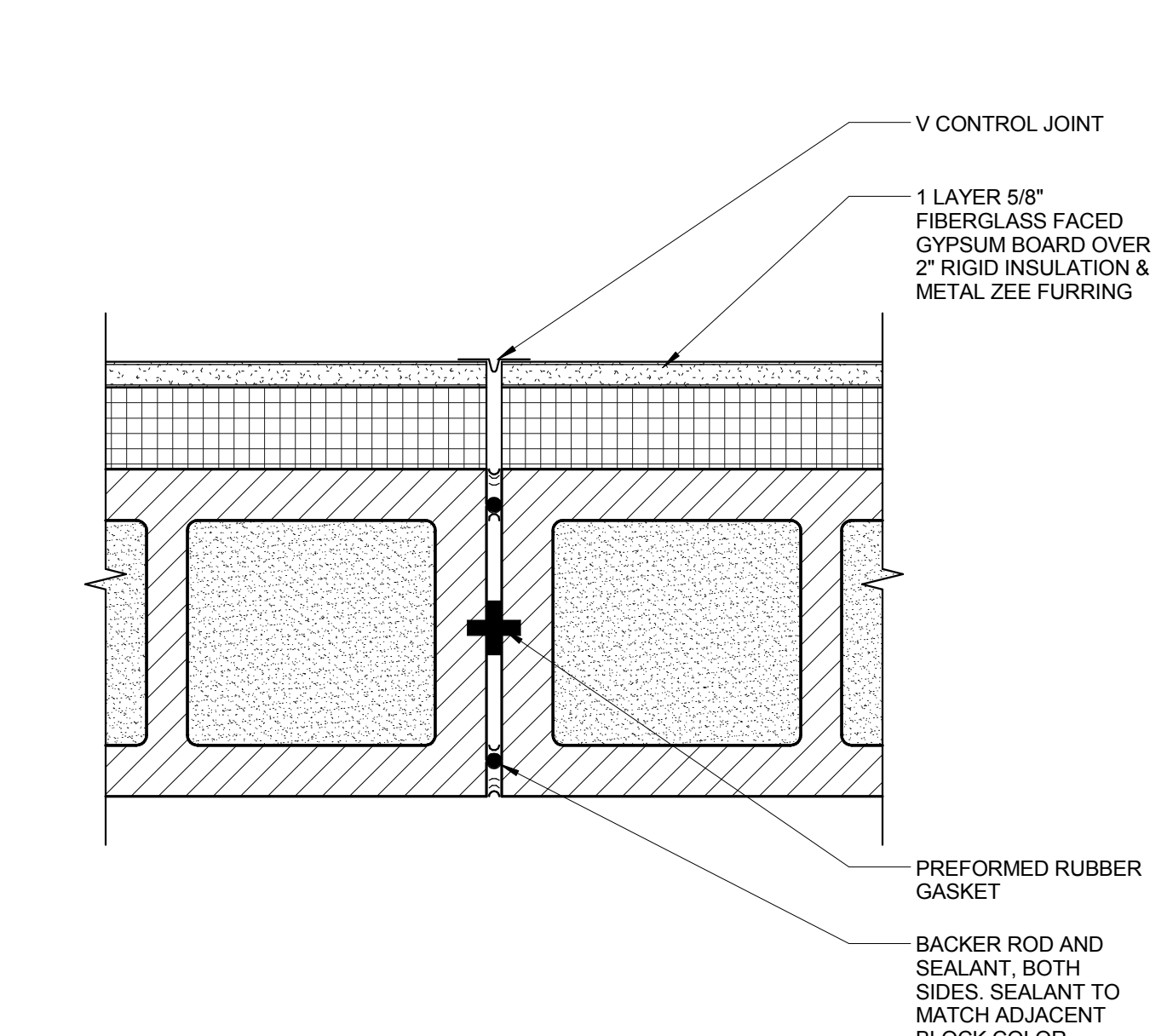
4 JAMB
SCALE: 3" = 1'-0"



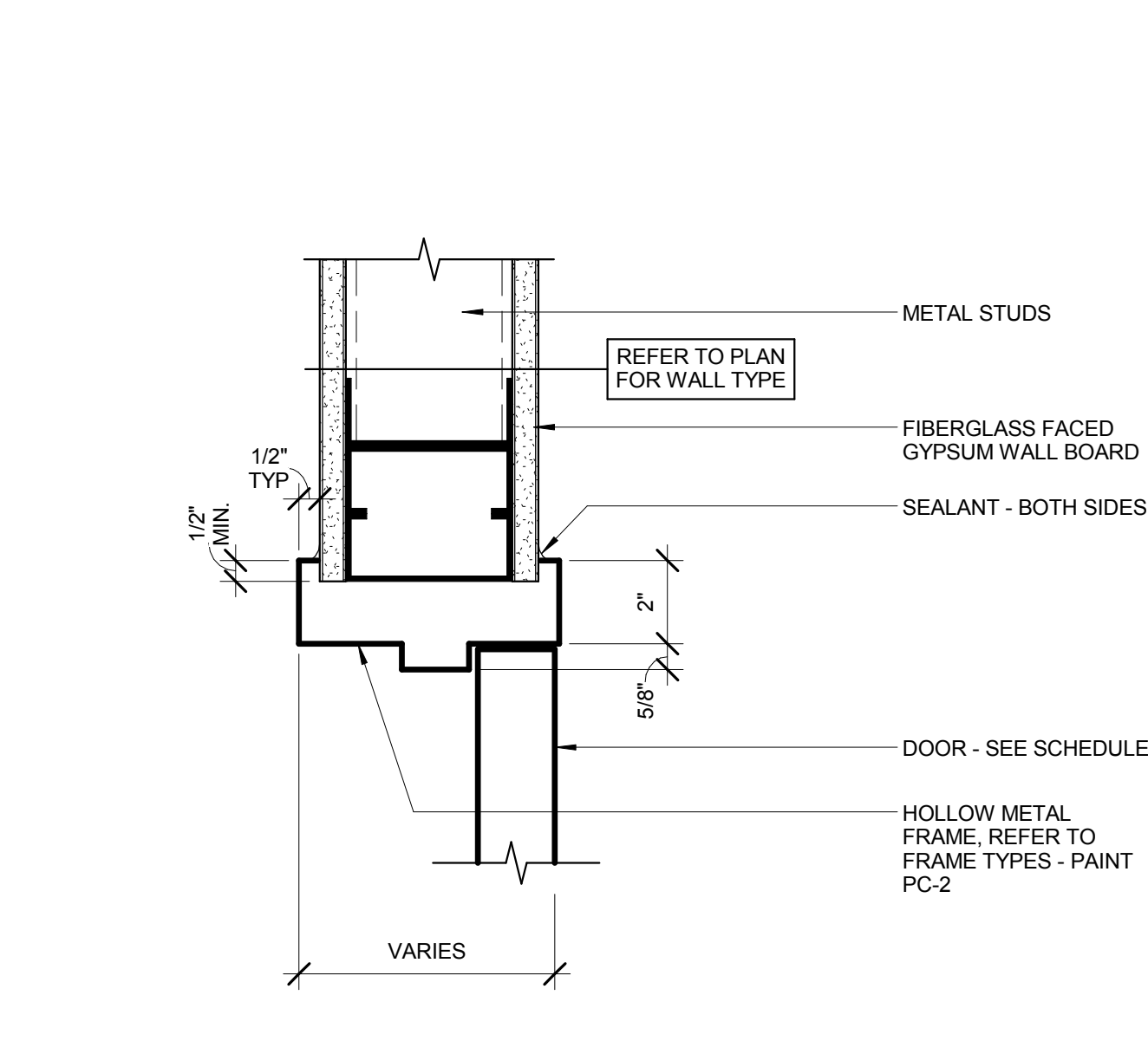
15 PROCEDURE ROOM - COUNTERTOP DETAIL
SCALE: 1/2" = 1'-0"



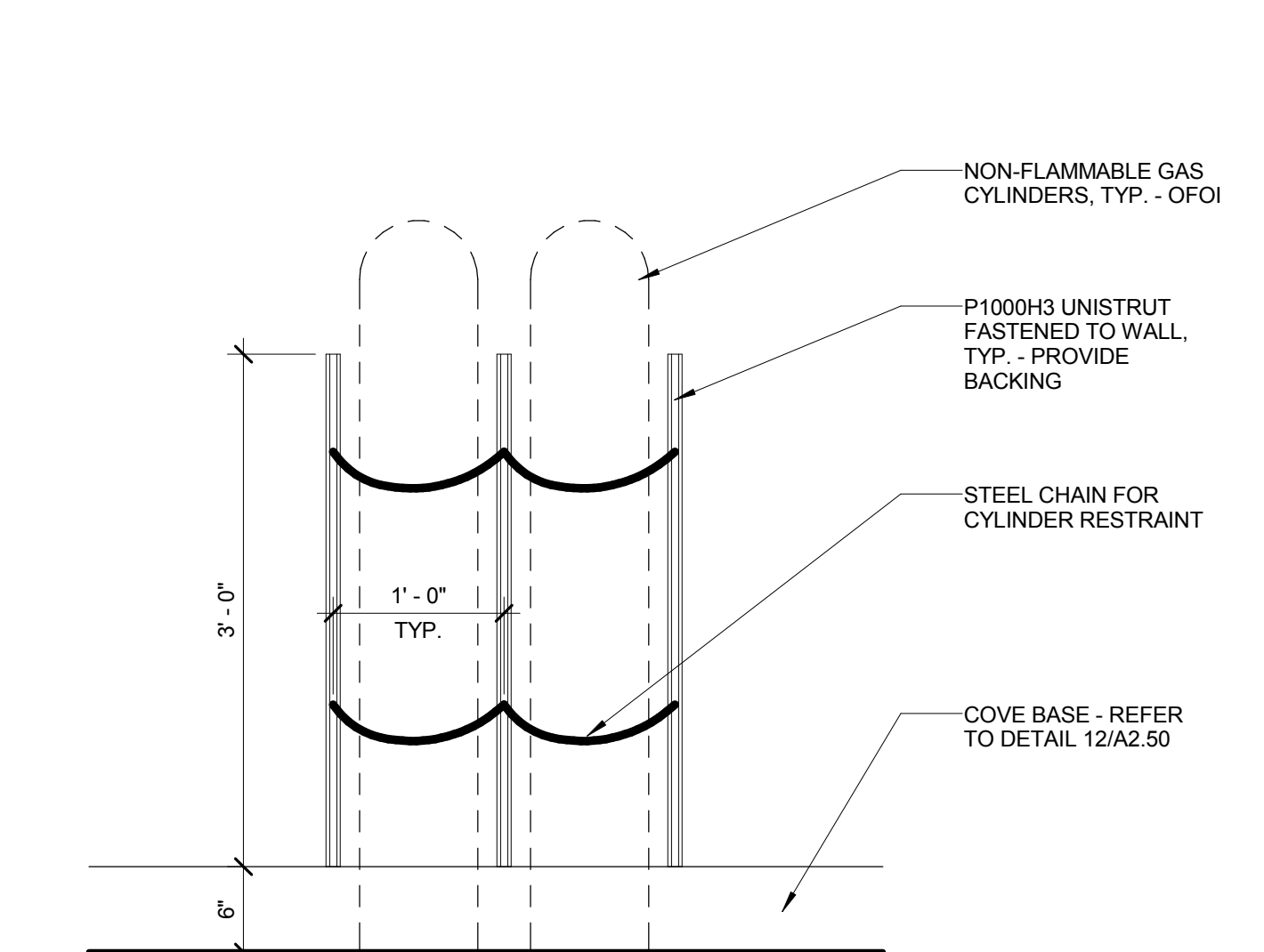
11 PARTITION DETAIL
SCALE: 1" = 1'-0"



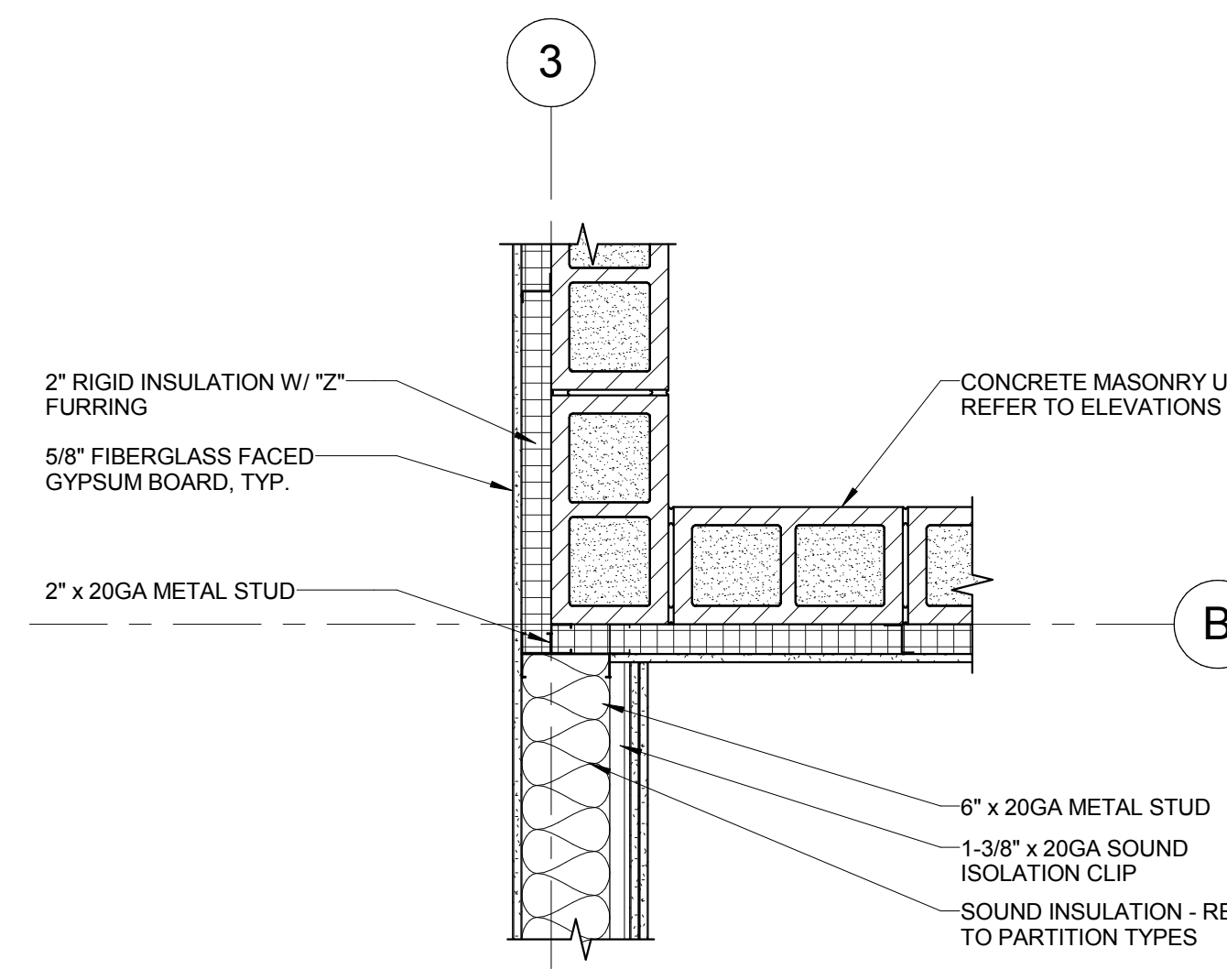
7 MASONRY/GYPSUM BOARD CONTROL JOINT
SCALE: 3" = 1'-0"



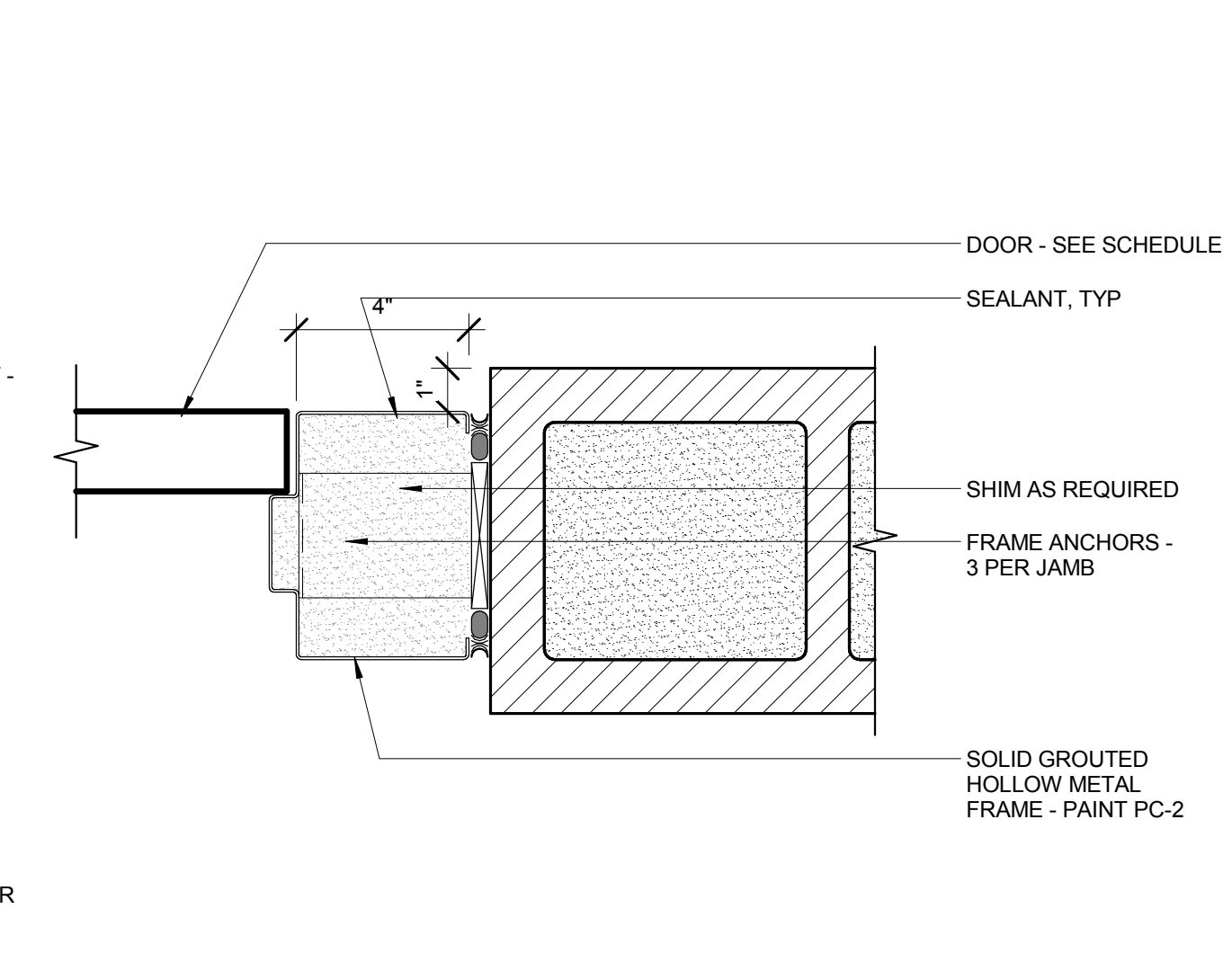
3 HEAD
SCALE: 3" = 1'-0"



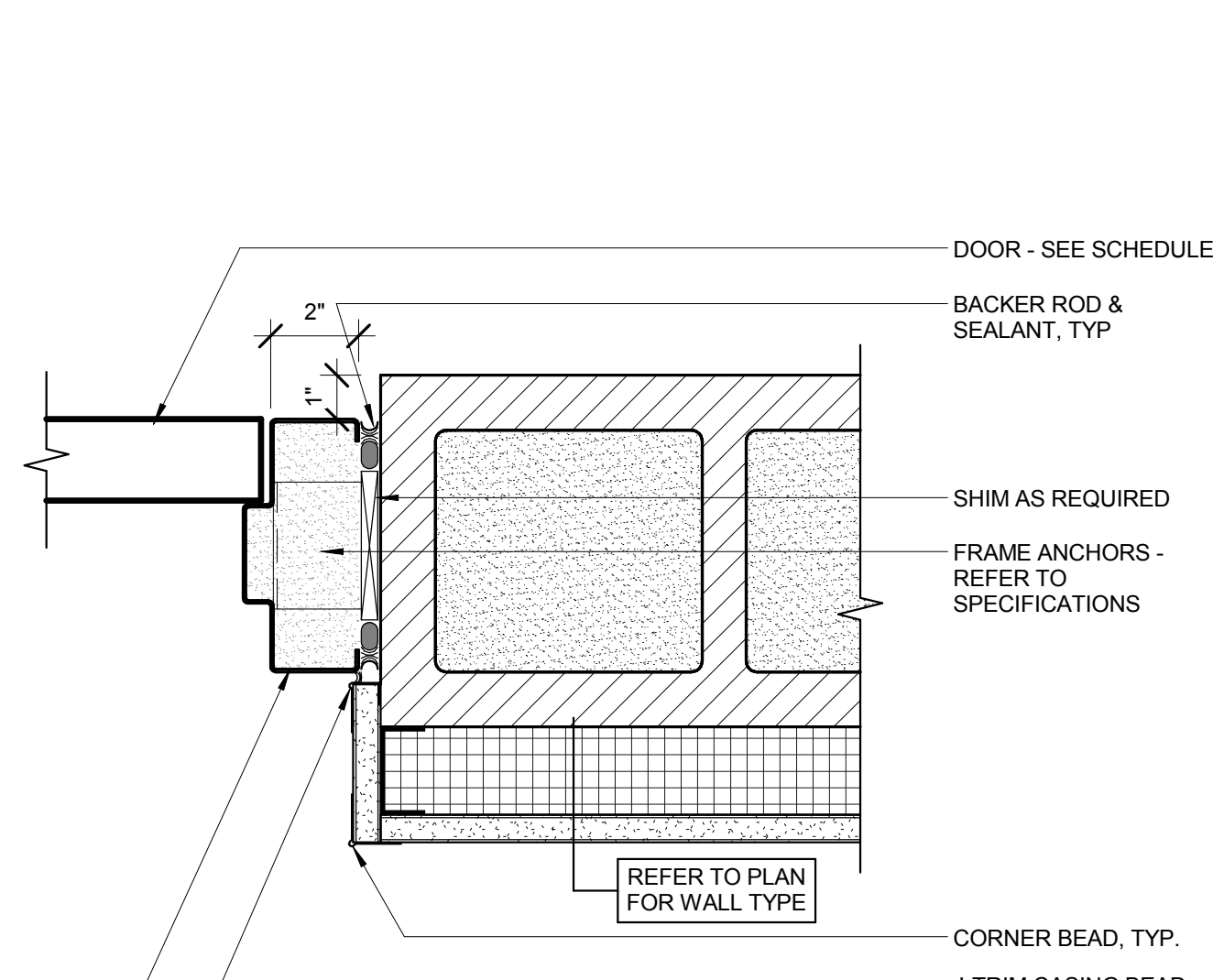
14 GAS CYLINDER RESTRAINTS
SCALE: 1" = 1'-0"



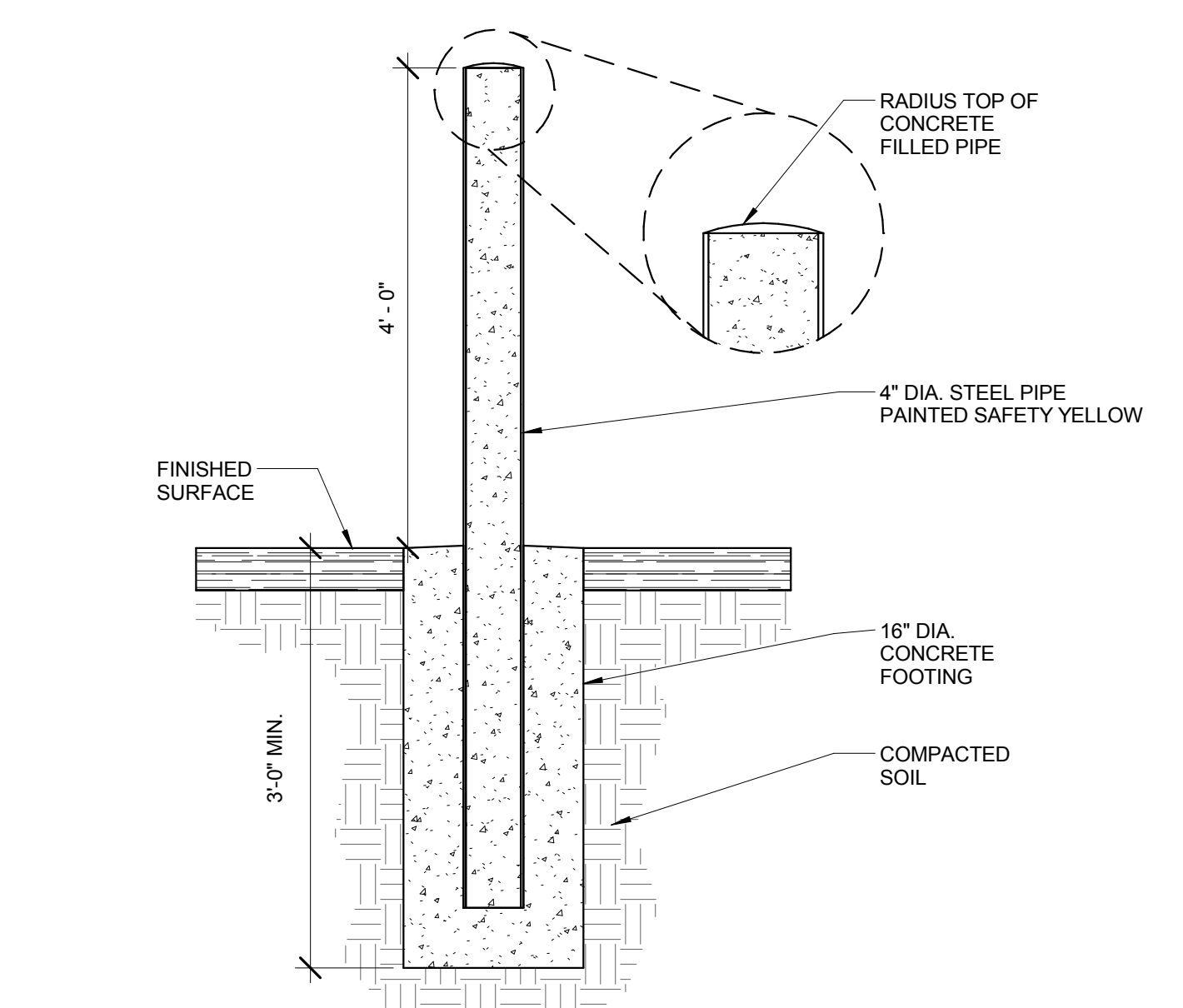
10 PARTITION DETAIL
SCALE: 1" = 1'-0"



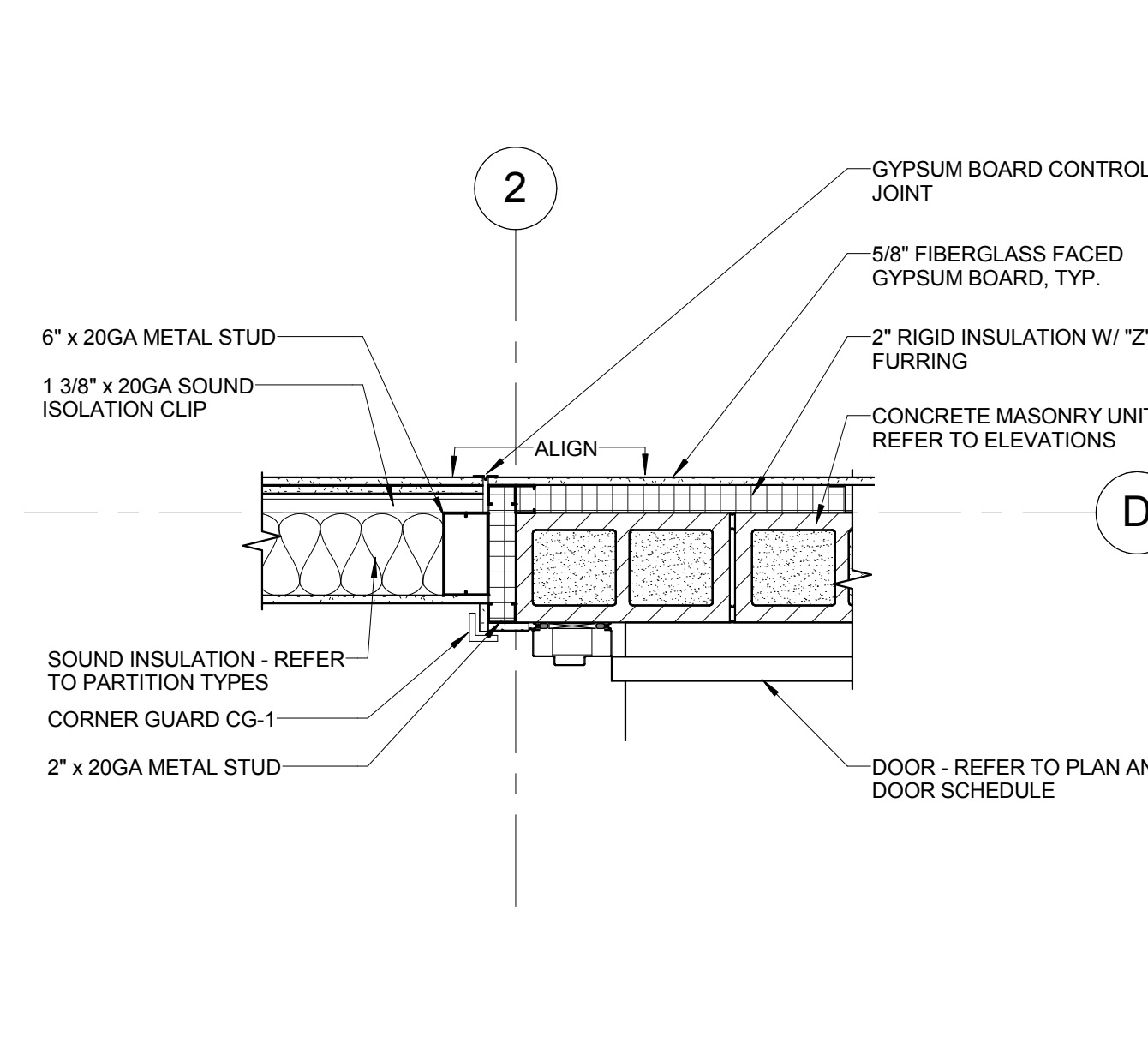
6 JAMB
SCALE: 3" = 1'-0"



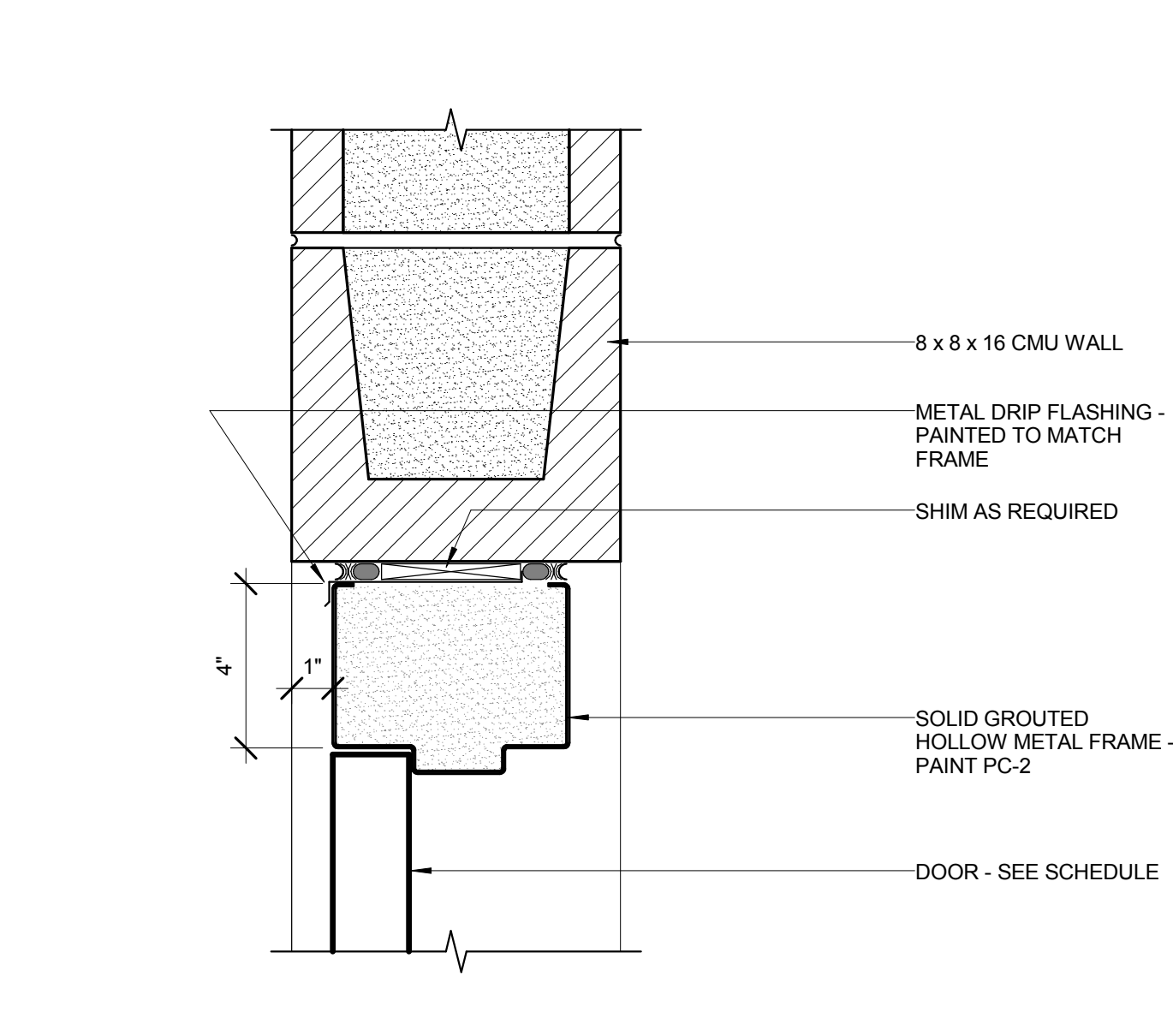
2 JAMB
SCALE: 3" = 1'-0"



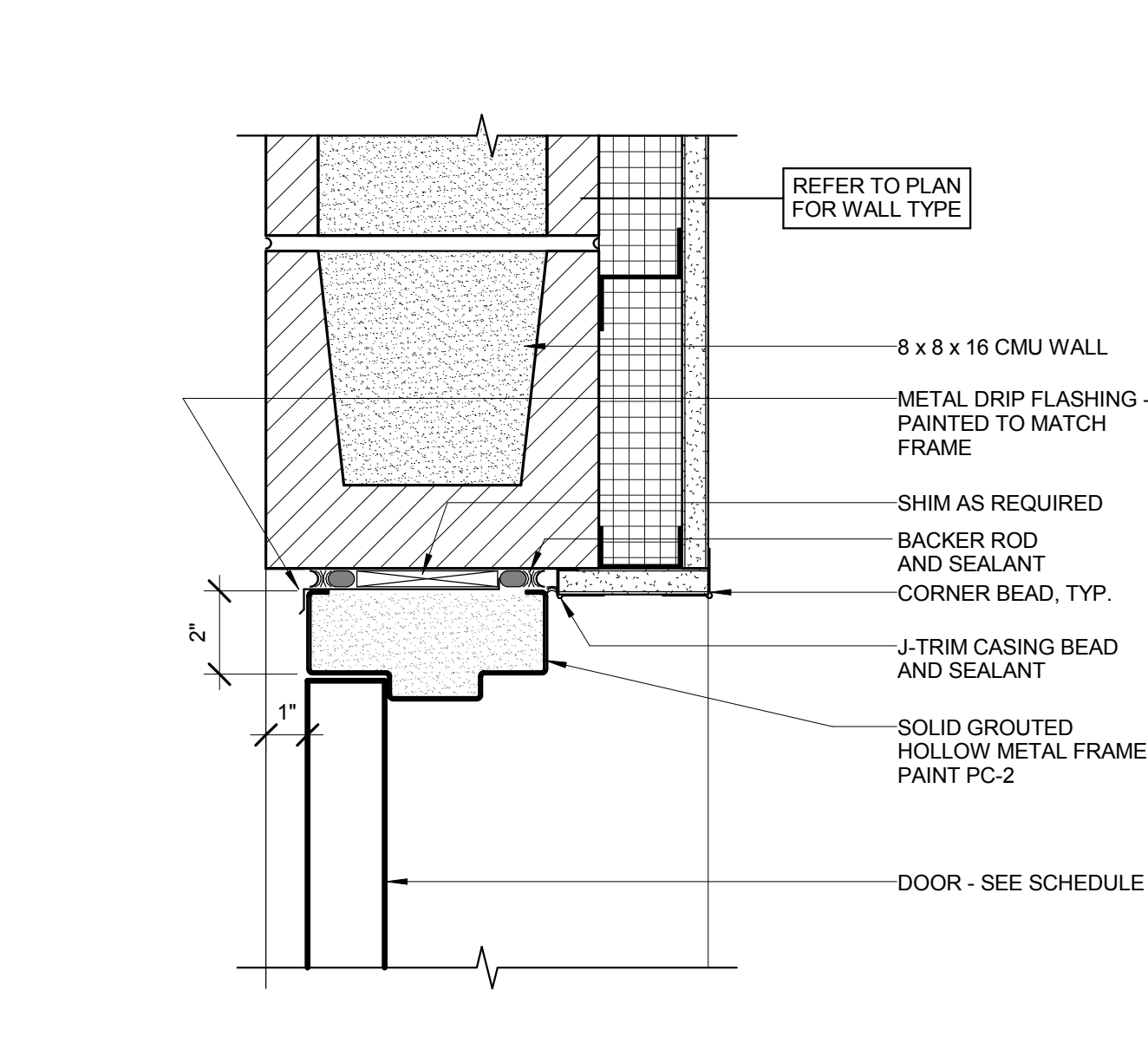
13 BOLLARD DETAIL
SCALE: 3/4" = 1'-0"



9 PARTITION DETAIL
SCALE: 1" = 1'-0"



5 HEAD
SCALE: 3" = 1'-0"



1 HEAD
SCALE: 3" = 1'-0"

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Project

UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

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REVISIONS		
REV	DATE	DESCRIPTION
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

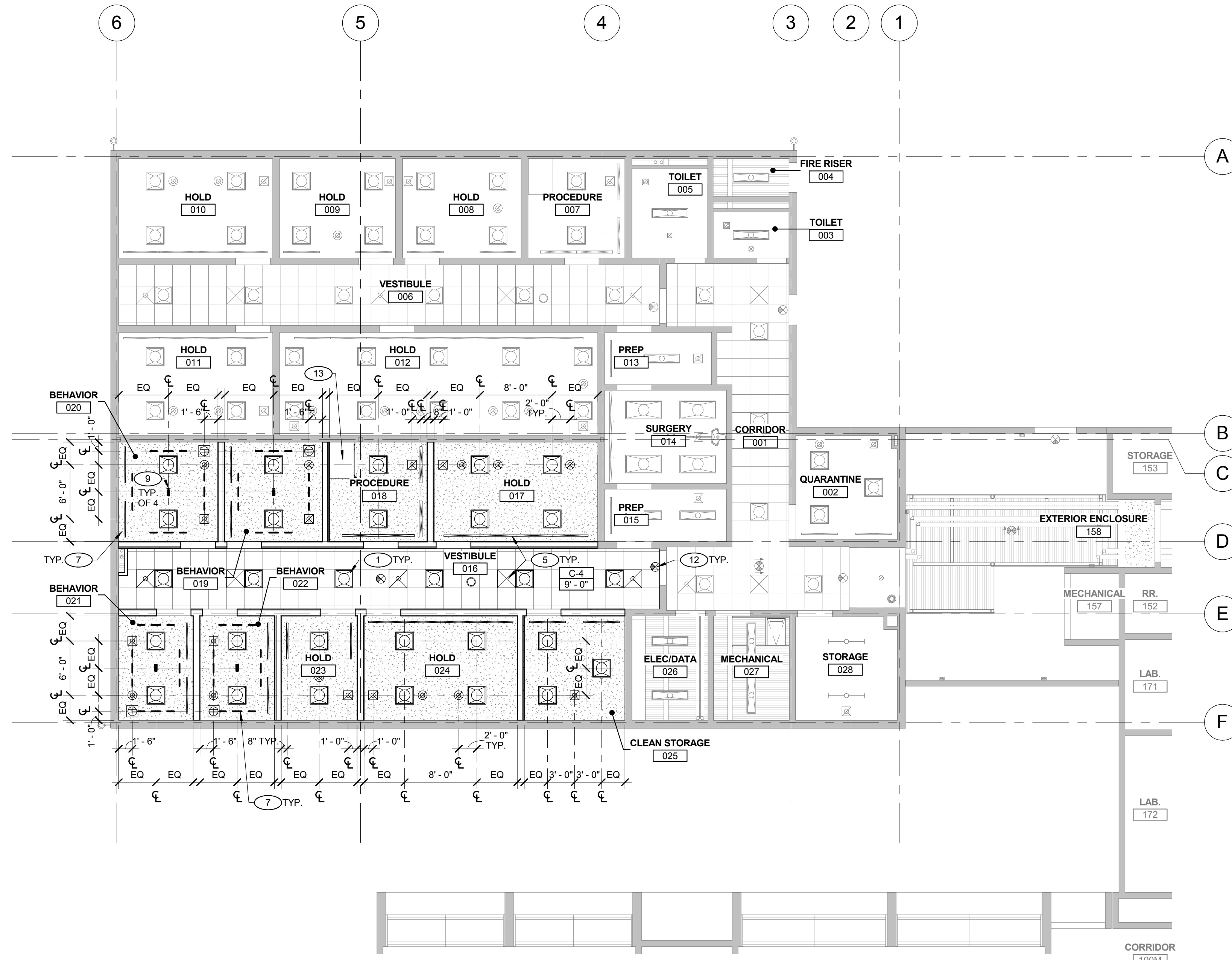
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PHASED REFLECTED
CEILING PLANS

Date: 06/17/2016

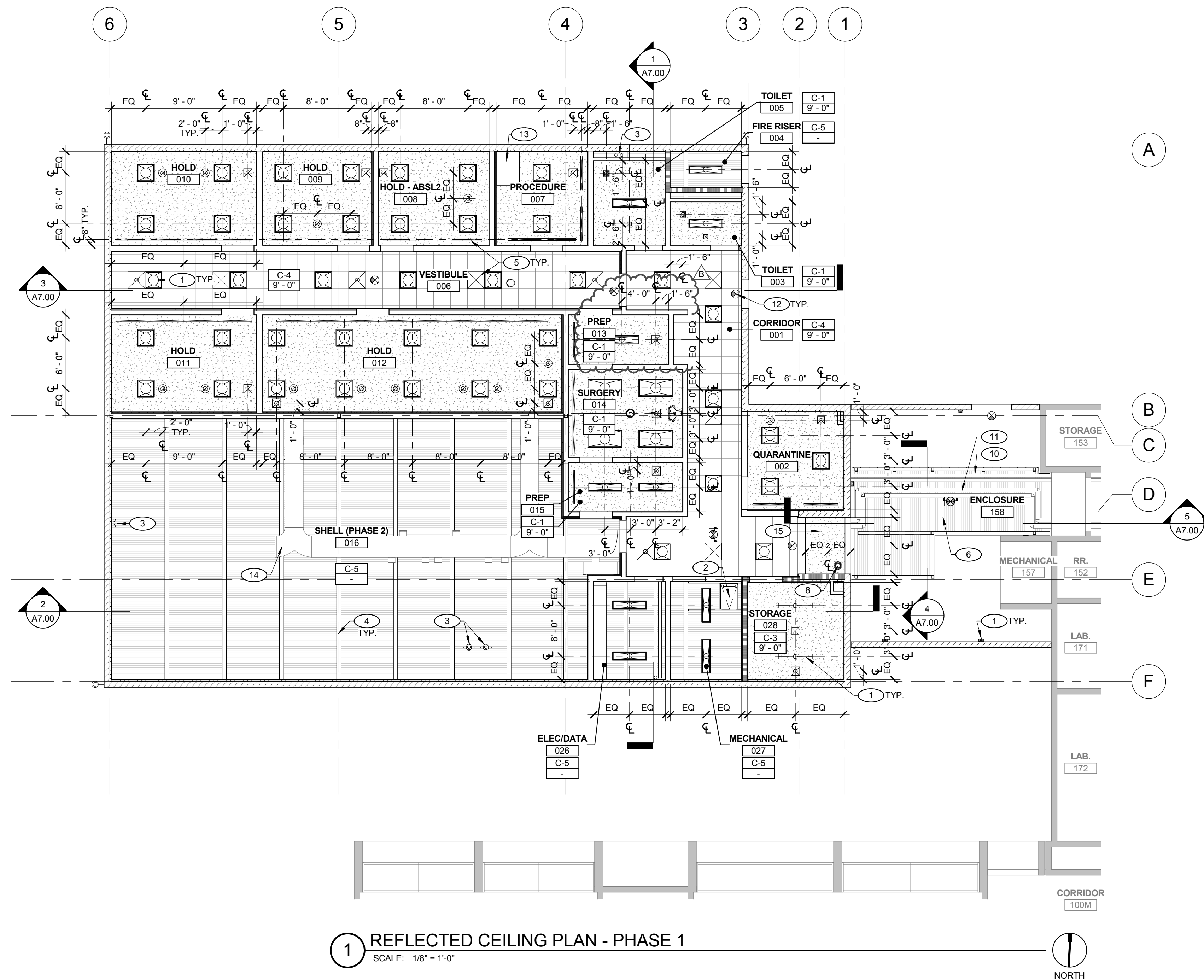
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A3.01



2 REFLECTED CEILING PLAN - PHASE 2

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



1 REFLECTED CEILING PLAN - PHASE 1

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

GENERAL NOTES

- 1 REFER TO MATERIAL SCHEDULE FOR CEILING COLOR AND FINISH.
- 2 CEILING HEIGHTS ARE BASED ON FINISH FLOOR ELEVATIONS.
- 3 MAINTAIN MINIMUM 6" CLEAR BETWEEN LIGHT FIXTURES, DIFFUSERS, ETC.
- 4 CEILING ARE TYPE C-2, WITH A HEIGHT OF 9'-0" U.N.O.
- 5 PROVIDE ACOUSTICAL SEALANT AT ALL PENETRATIONS THROUGH ACOUSTICAL PARTITIONS AND CEILINGS.
- 6 PROVIDE FIRESTOP SEALANT AT ALL PENETRATIONS THROUGH RATED WALLS AND CEILINGS.
- 7 ALL CEILING EQUIPMENT/DIFFUSERS TO BE AT LEAST 6" FROM WALLS.

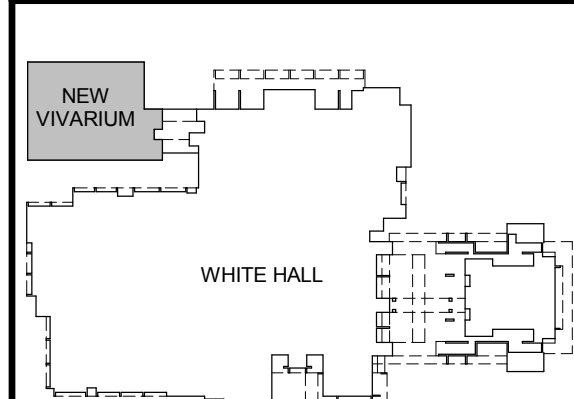
KEYNOTES

- 1 LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- 2 ROOF HATCH - REFER TO ROOF PLAN
- 3 ROOF DRAIN - REFER TO ROOF PLAN AND PLUMBING DRAWINGS
- 4 STRUCTURE - REFER TO STRUCTURAL DRAWINGS
- 5 SUPPLY EXHAUST REGISTER - REFER TO MECHANICAL DRAWINGS
- 6 SHADE CANOPY - REFER TO STRUCTURAL DRAWINGS AND SECTIONS
- 7 4'-0" UNISTRUT - REFER TO DETAIL 9/A3.10
- 8 CEILING MOUNTED SECURITY CAMERA - COLOR TO MATCH ADJACENT FINISH - REFER TO ELECTRICAL DRAWINGS
- 9 OFOI CAMERA - REFER TO DETAIL 10/A3.10 - PROVIDE BLOCKING
- 10 CONDUIT - RUN TIGHT TO BOTTOM OF BEAMS, SUPPORT HANGERS FROM BEAMS AT CANOPY - REFER TO ELECTRICAL DRAWINGS
- 11 HYDRONIC PIPING - RUN TIGHT TO BOTTOM OF BEAMS, SUPPORT HANGERS FROM BEAMS AT CANOPY - REFER TO MECHANICAL DRAWINGS
- 12 EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
- 13 FUME HOOD, CFCI
- 14 DUCTWORK - REFER TO MECHANICAL DRAWINGS
- 15 PLASTER SOFFIT, PAINT PC-3 - REFER TO DETAIL 11/A3.10

LEGEND

	GYPSUM BOARD CEILING
	CEILING TILE (C-4), REFER TO 8/A3.10
	1' x 4' SURFACE MOUNTED LIGHT W/ LENS
	1' x 4' TROFFER LIGHT
	2' x 2' TROFFER LIGHT
	2' x 4' TROFFER LIGHT
	SAFETY SHOWER HEAD
	MECHANICAL SUPPLY DIFFUSER
	MECHANICAL EXHAUST REGISTER
	MECHANICAL THIMBLE EXHAUST CONNECTION
	SURGERY LIGHT
	4'-0" UNISTRUT

KEYPLAN



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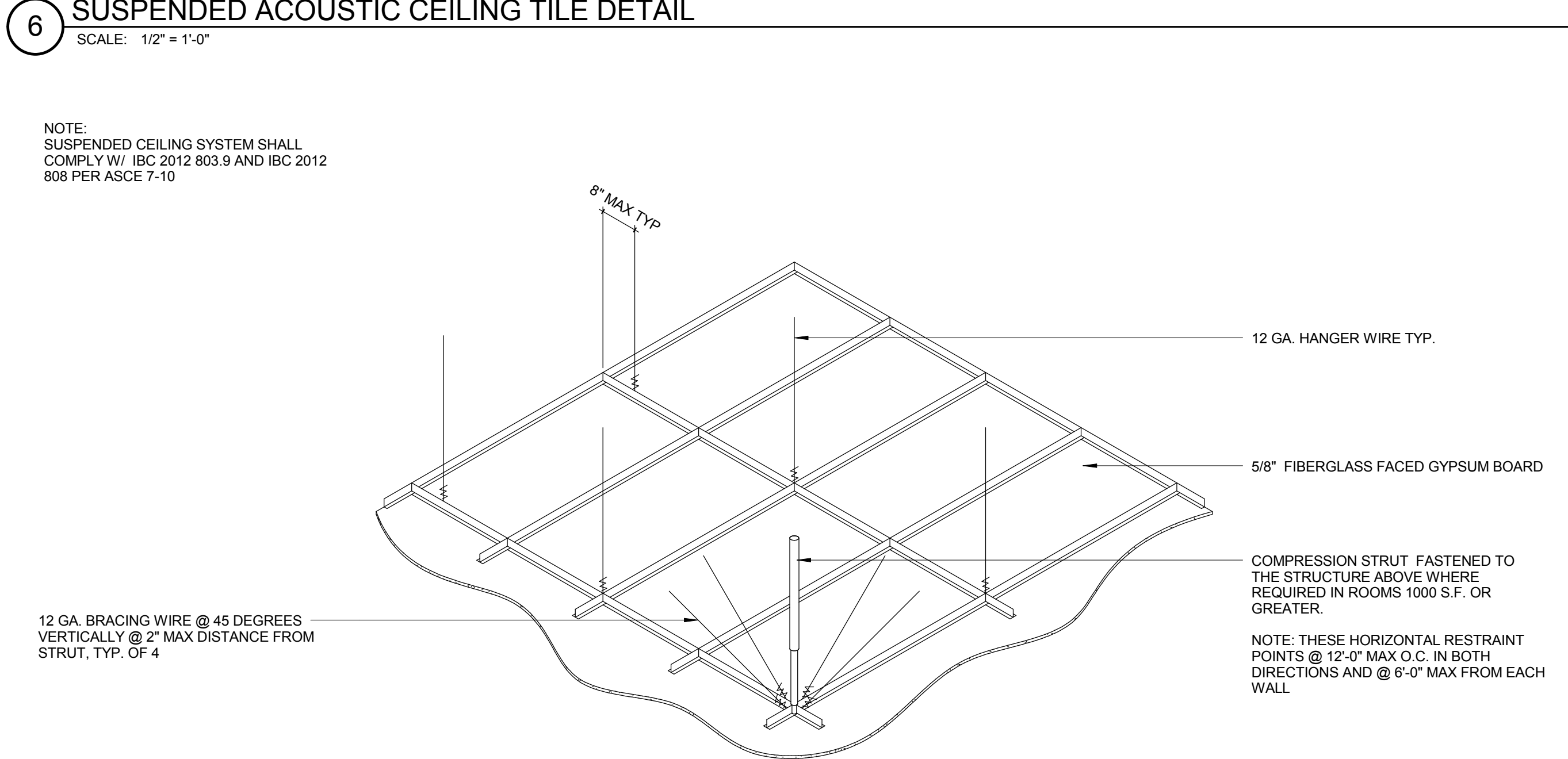
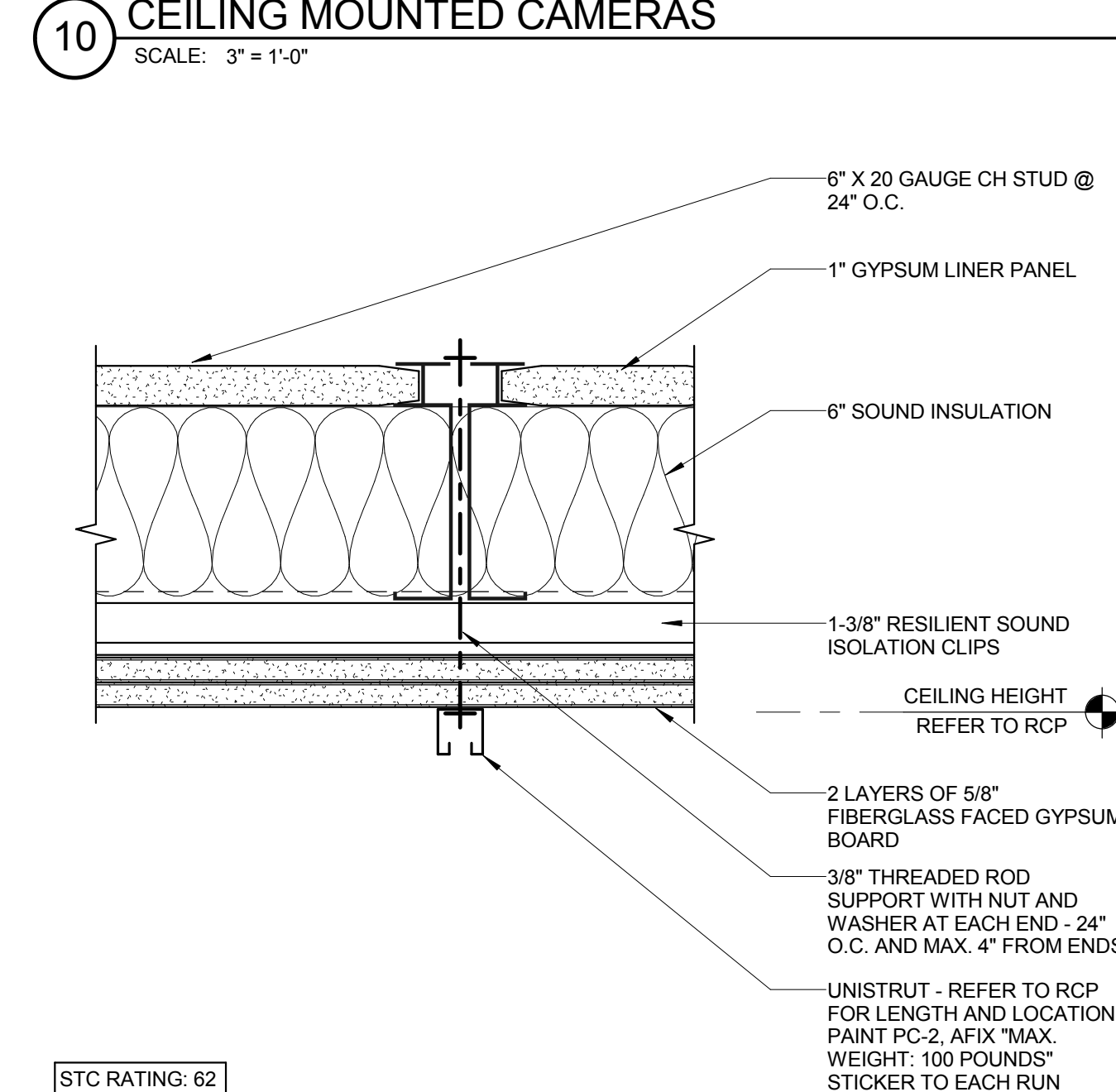
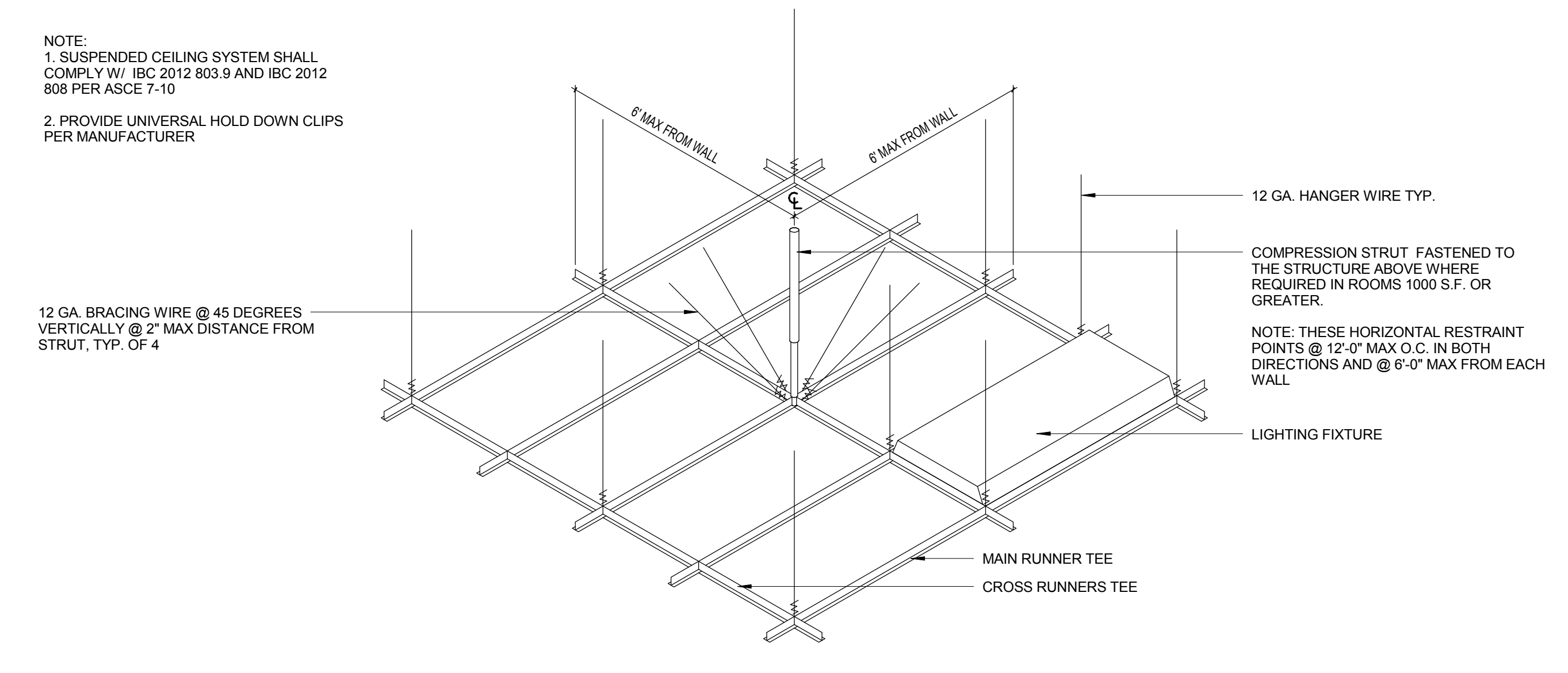
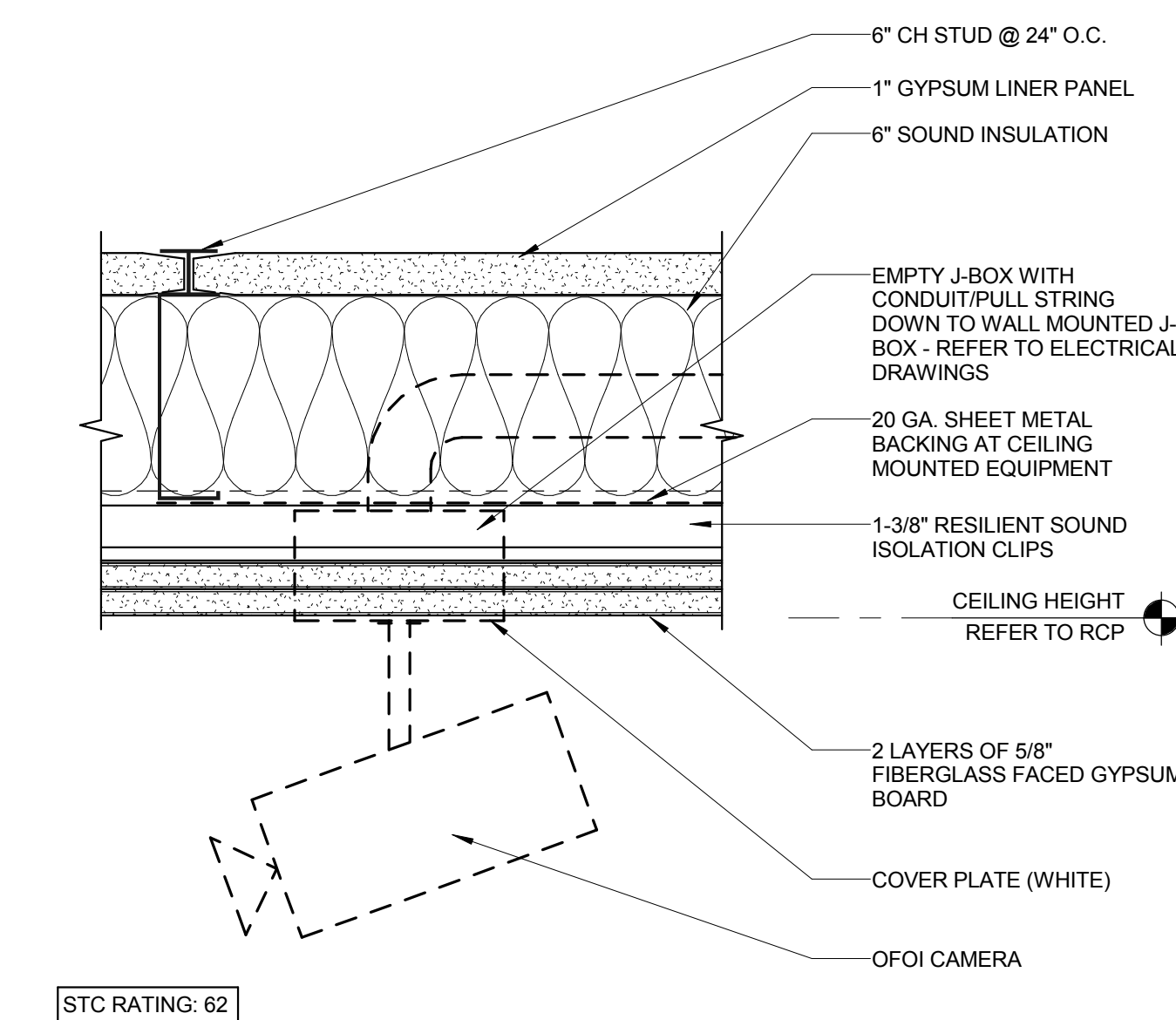
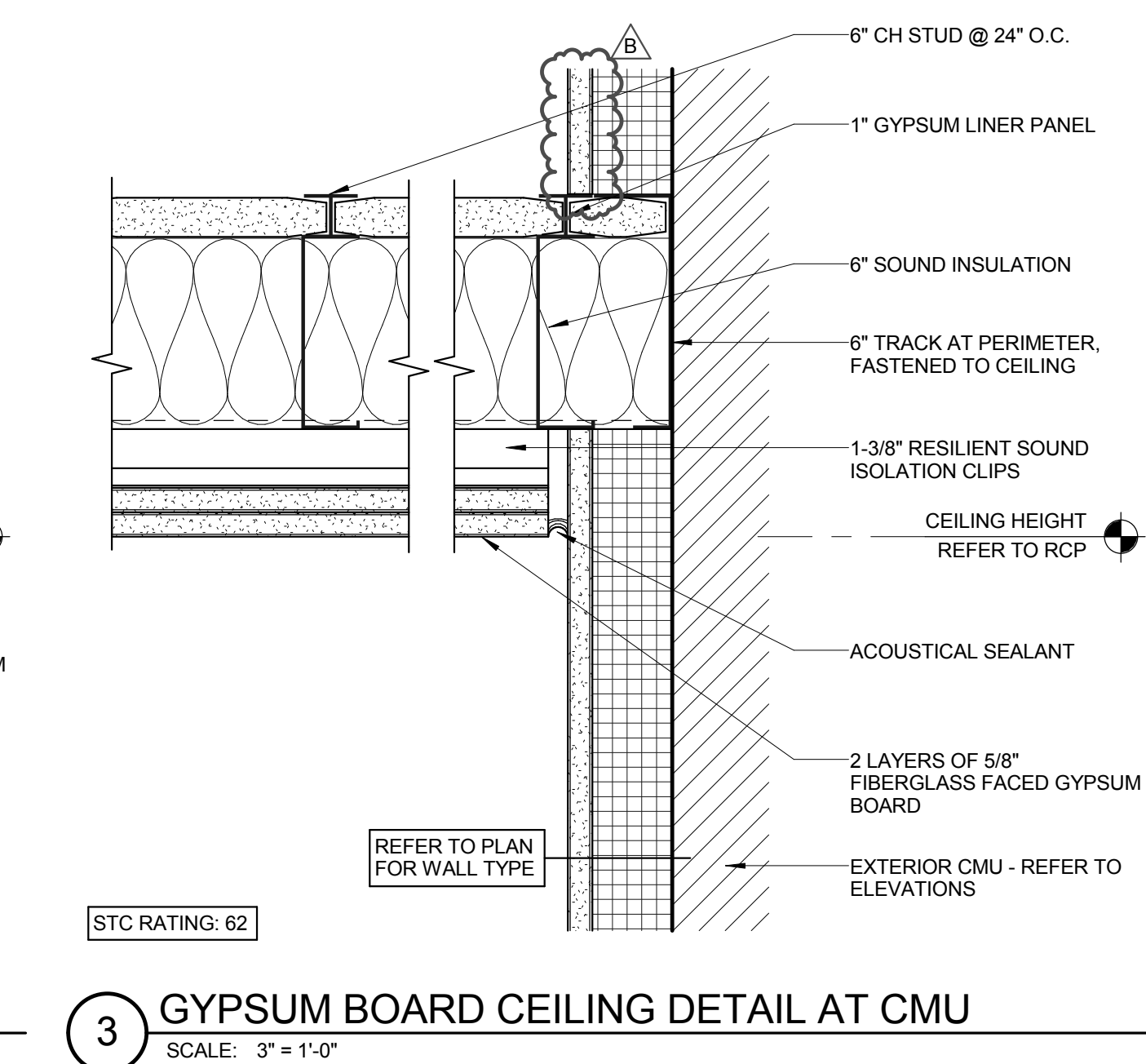
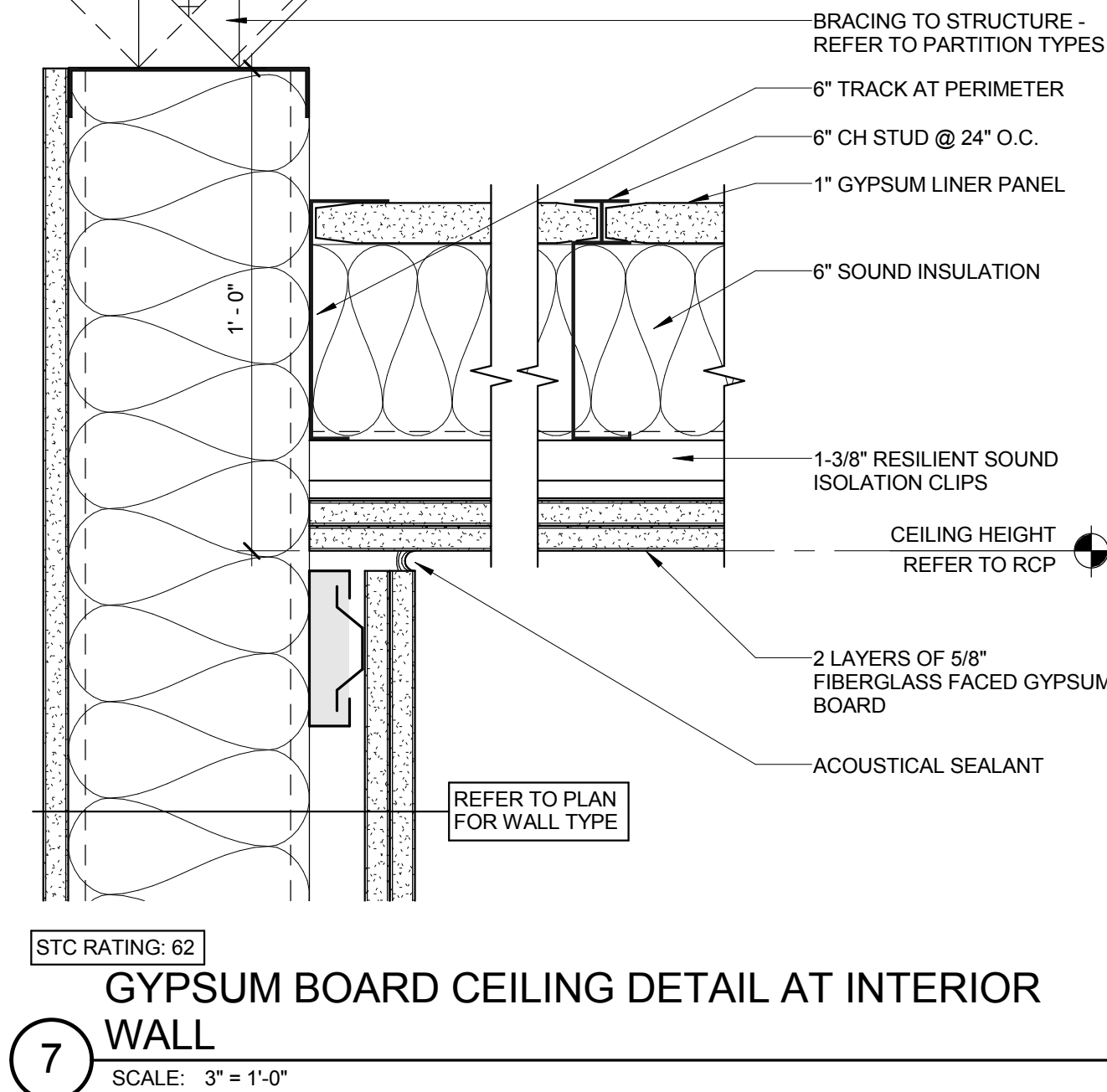
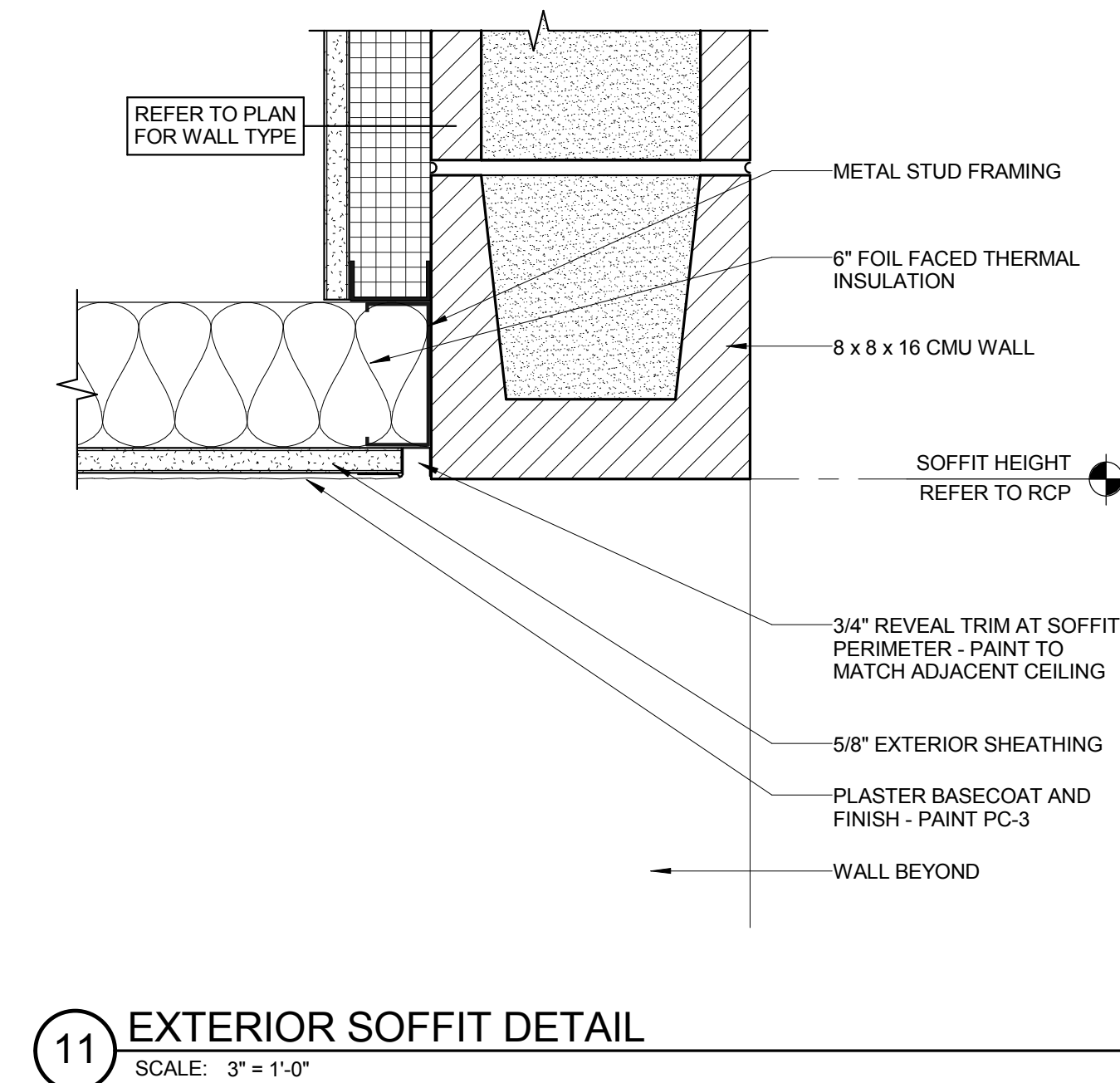
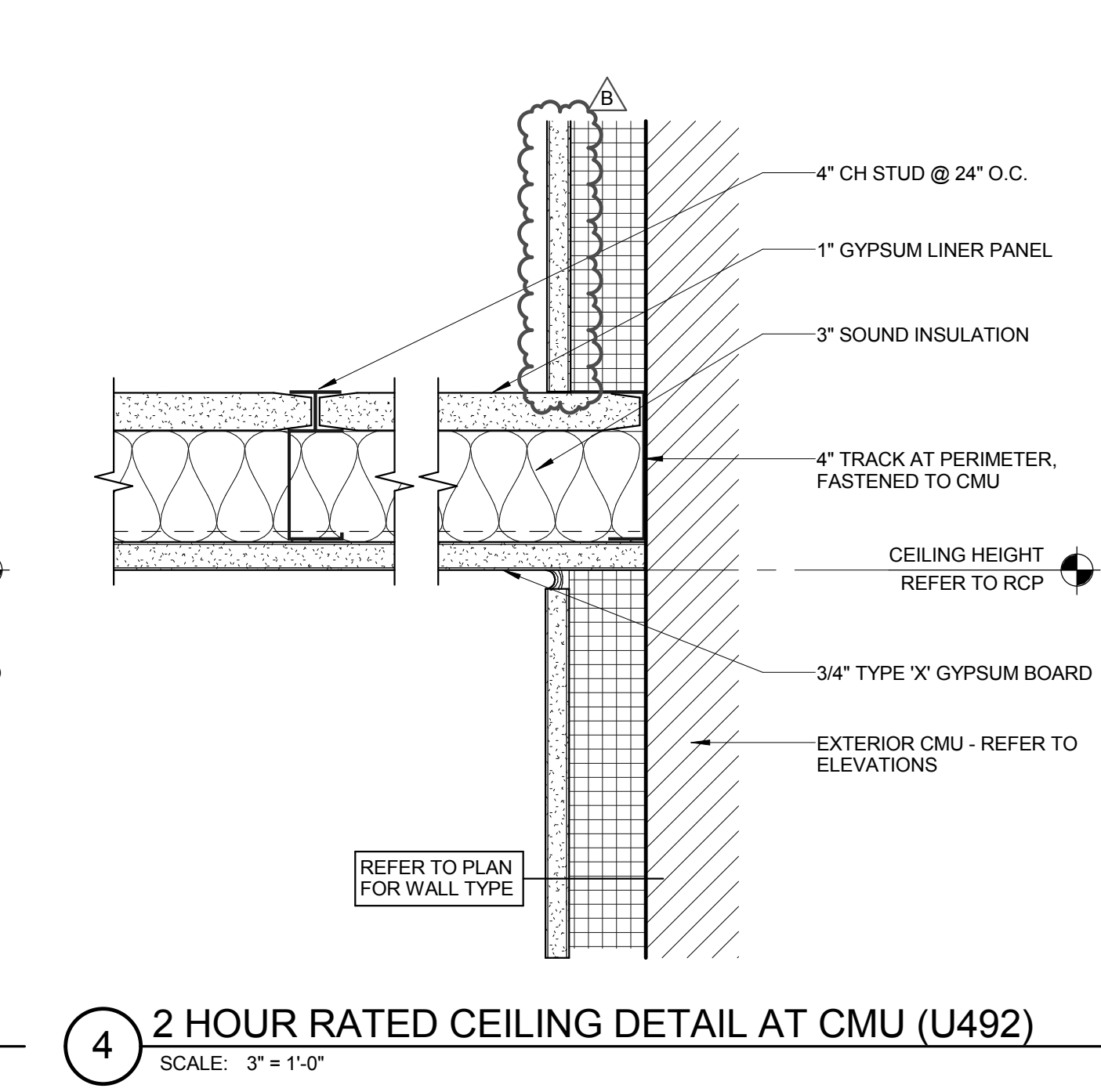
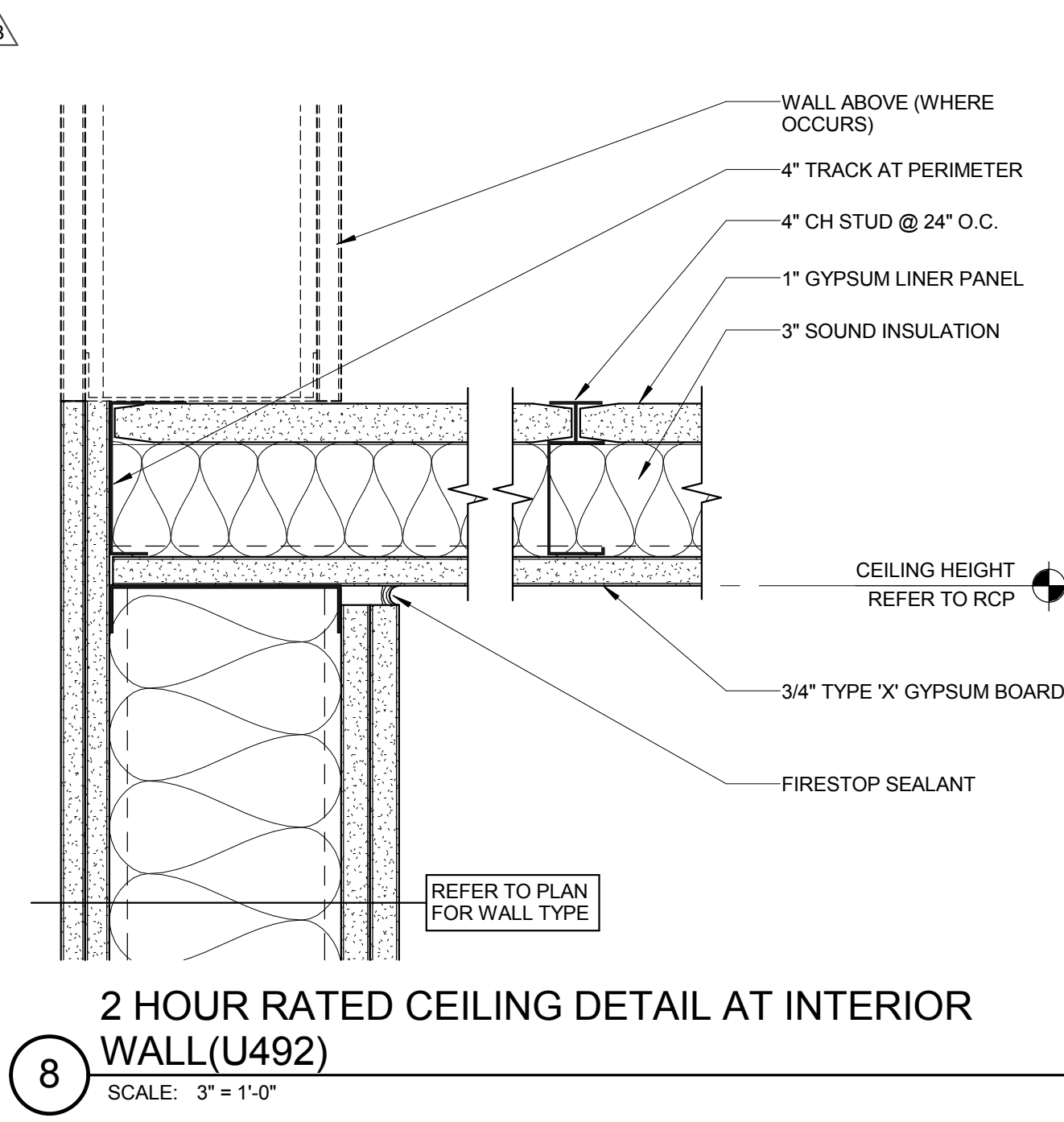
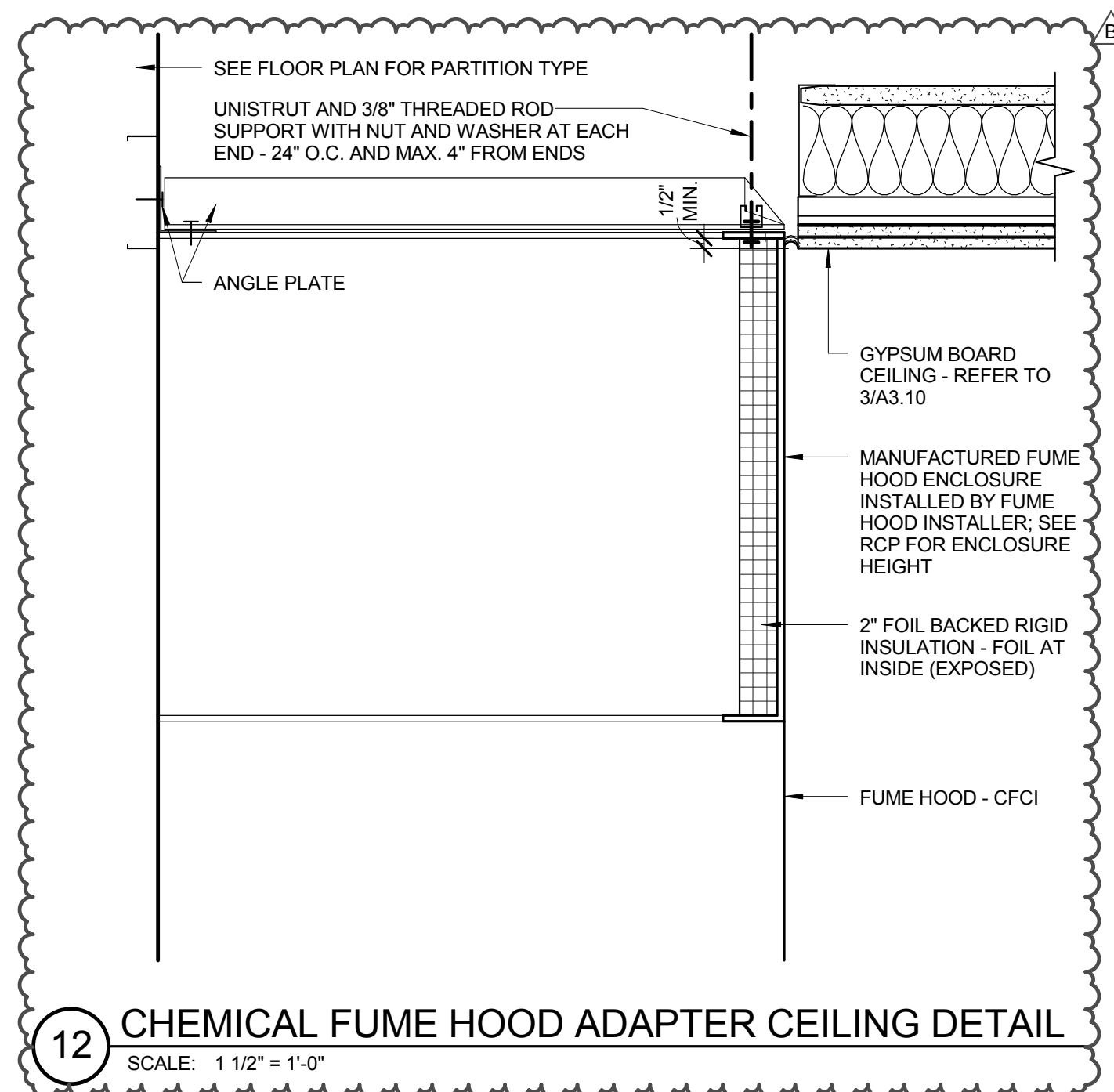
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GENERAL NOTES

1. REFERENCE G1.00 FOR TYPICAL ADA FIXTURE ELEVATIONS.
2. "ACC." DENOTES FIXTURES THAT NEED TO COMPLY WITH ADA STANDARDS.
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING ALL CASEWORK.
4. ALL CASEWORK TO BE LOCKABLE.

KEYNOTES

1. CAR READER DEVICE
2. DUPLEX RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
3. CORNER GUARD (CG) - REFER TO MATERIAL SCHEDULE
4. FIRE EXTINGUISHER CABINET - MOUNT T.O. CABINET AT +48" A.F.F.
5. STAINLESS STEEL COUNTERTOP
6. QUAD RECEPTACLE - REFER TO ELECTRICAL DRAWINGS
7. MOP SINK - REFER TO PLUMBING DRAWINGS
8. SAFETY SHOWER/EYE WASH WITH SIGNAGE - MOUNT PER MFR INSTRUCTIONS SO THAT HANDLES ARE AT +48" A.F.F. - REFER TO PLUMBING DRAWINGS
9. CHEMICAL FUME HOOD
10. LAB PEGBOARD, CFCI
11. ADJUSTABLE STAINLESS STEEL SHELVING, CFCI
12. STAINLESS STEEL CASEWORK, CFCI - REFER TO CASEWORK DETAILS AND SPECIFICATIONS
13. TELEDATA RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
14. SINK - REFER TO PLUMBING DRAWINGS
15. PREP SINK - REFER TO PLUMBING DRAWINGS
16. SURGERY LIGHT - REFER TO ELECTRICAL DRAWINGS
17. DECK MOUNTED OXYGEN AND CARBON DIOXIDE BALL VALVES
18. OPGI CARBON DIOXIDE GAS CYLINDER
19. OPGI OXYGEN GAS CYLINDER
20. GAS CYLINDER RESTRAINTS, CFCI
21. GAS MANIFOLD, CFCI, REFER TO PLUMBING DRAWINGS
22. HOT AND COLD WATER HOSE BIB - REFER TO PLUMBING DRAWINGS
23. HOSE AND HOSE REEL, CFCI
24. CONTROL JOINT - REFER TO DETAIL 12/A2.50
25. COUNTER SUPPORT BRACKET - PAINT TO MATCH ADJACENT WALL
26. ALUMINUM CRASH RAIL CR-1 - MOUNT AT 3'-0" A.F.F. - REFER TO MATERIAL SCHEDULE
27. INTEGRAL RESINOUS COVE BASE - REFER TO MATERIAL SCHEDULE
28. INTERIOR SIGNAGE, REFER TO SIGNAGE PLAN
29. EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
30. ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS
31. LIGHTING AND MECHANICAL CONTROL TABLETS - COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS
32. STAINLESS STEEL FILLER PANEL, AS REQUIRED
33. STAINLESS STEEL HOOD ADAPTER - REFER TO DETAIL 12/A3.10
34. ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- SIGNAGE
- CARD READER
- RECEPTACLE

PERMIT SET

REVISIONS		DESCRIPTION
REV	DATE	
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B	08/19/16	ADDENDUM B

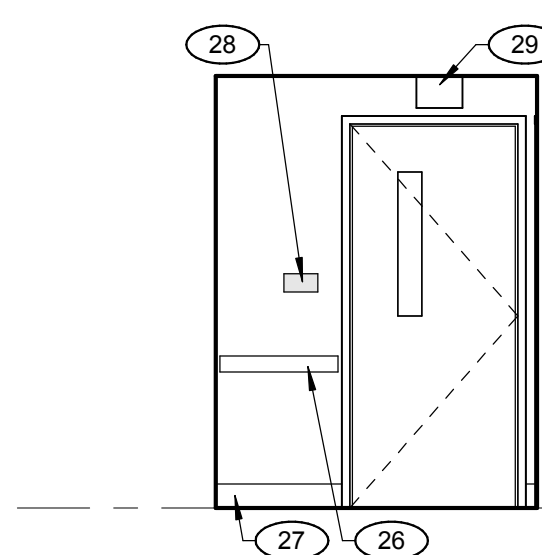
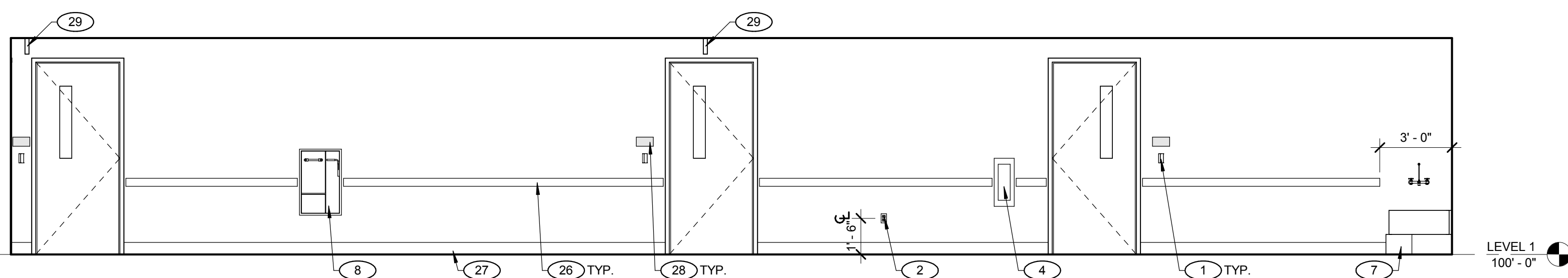
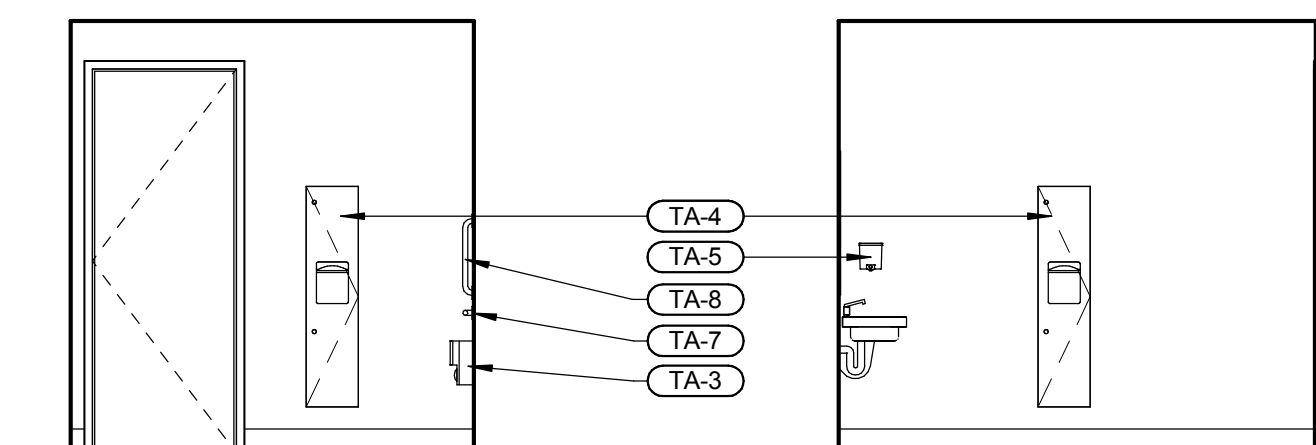
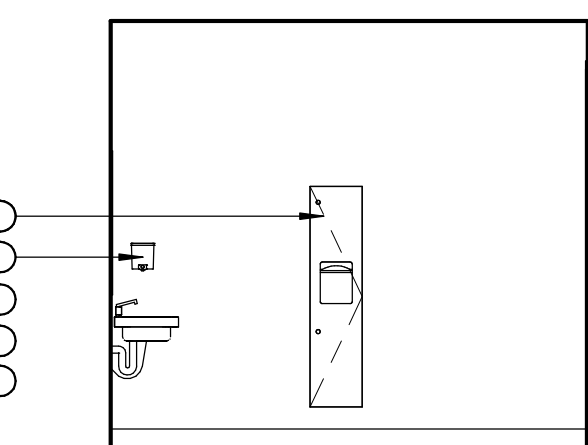
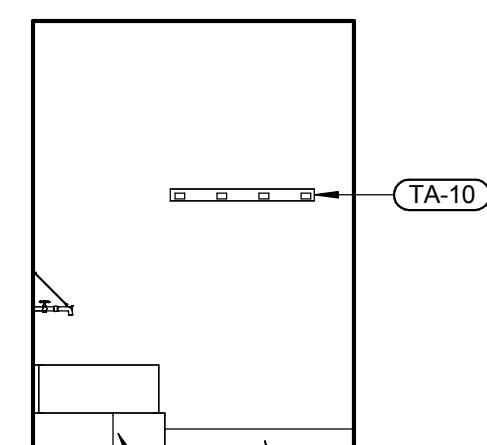
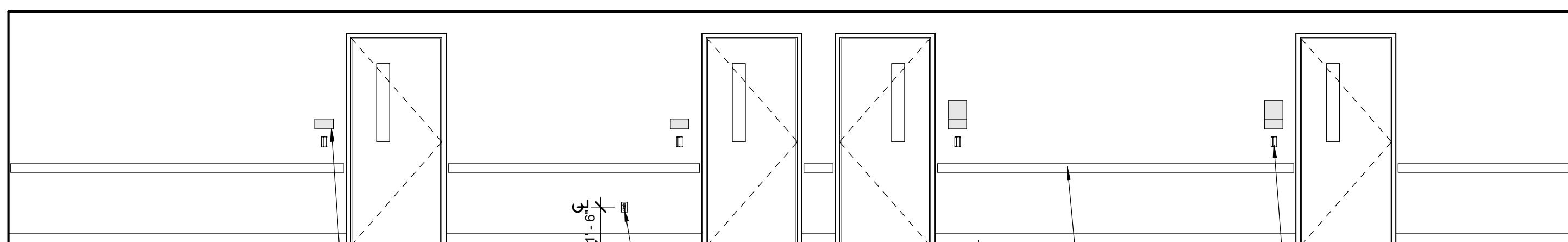
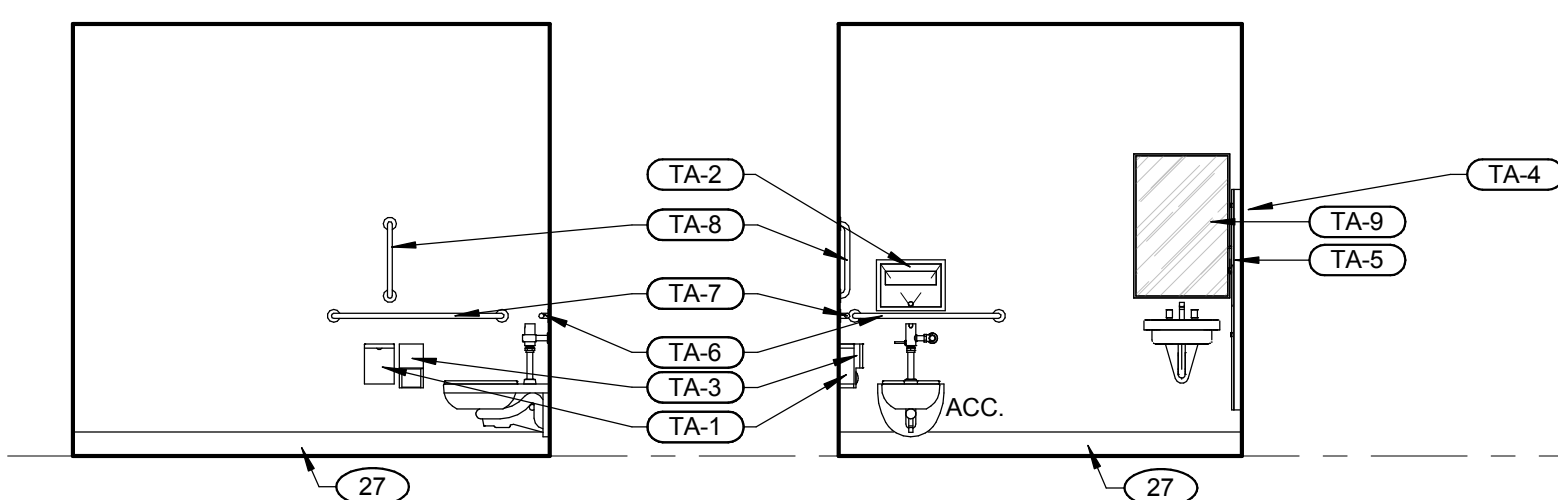
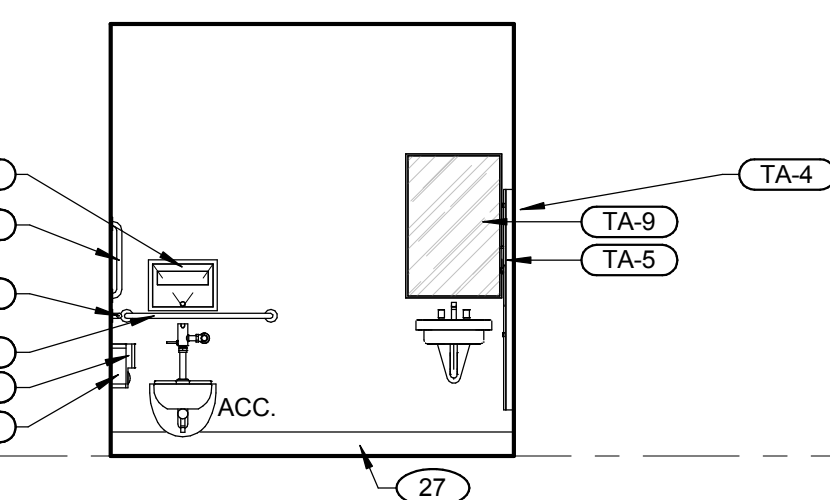
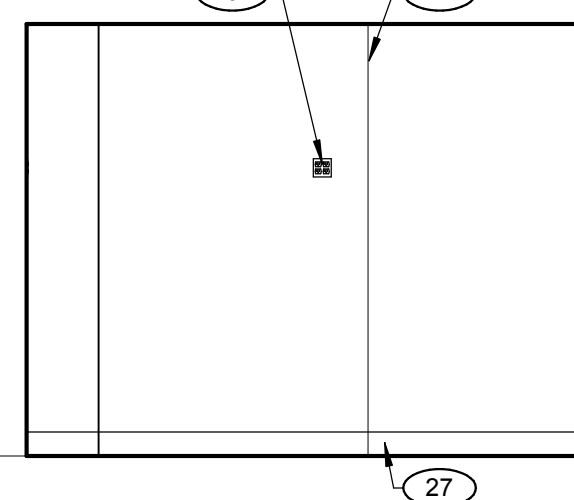
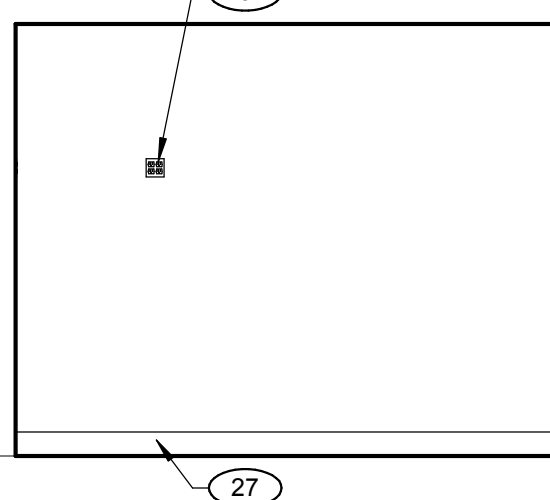
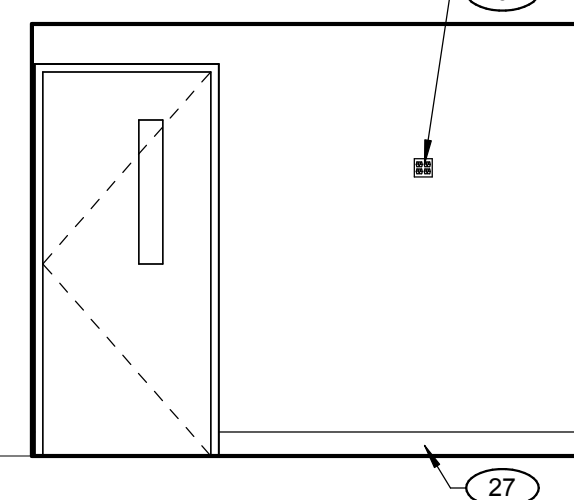
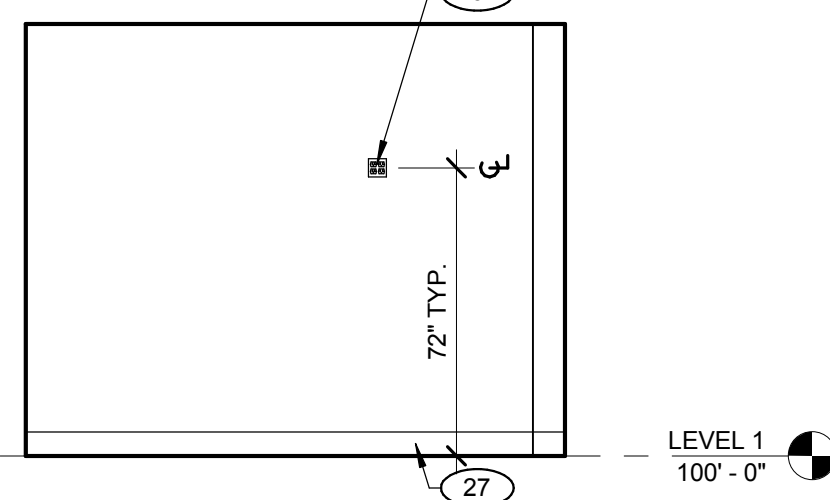
Sheet Title

INTERIOR
ELEVATIONS - PHASE
1

Date: 06/17/2016

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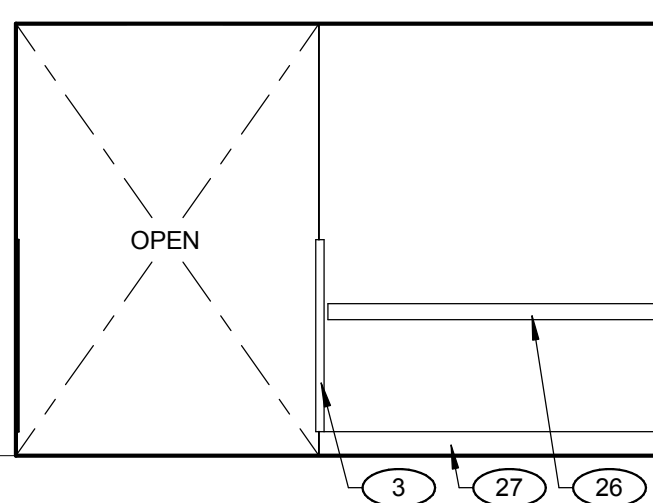
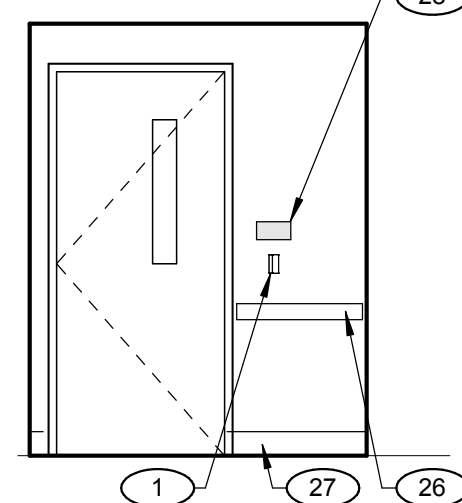
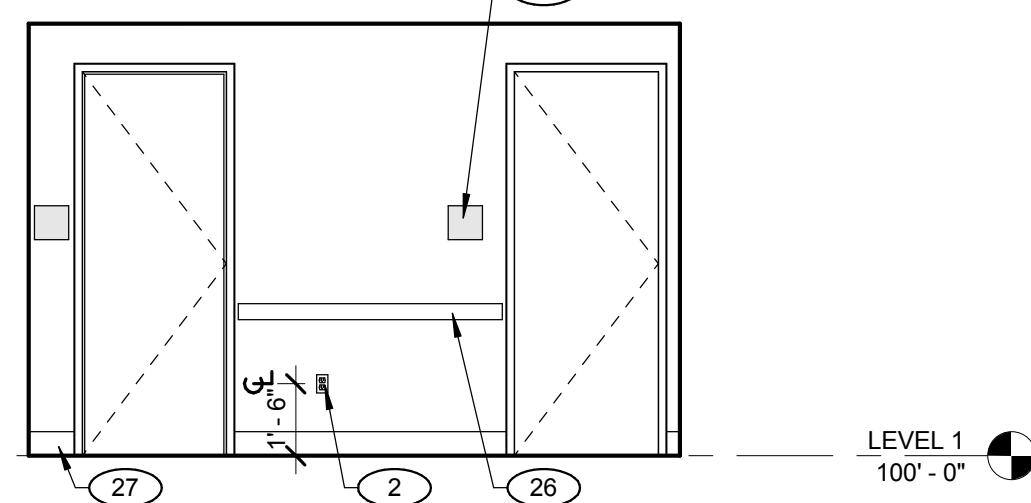
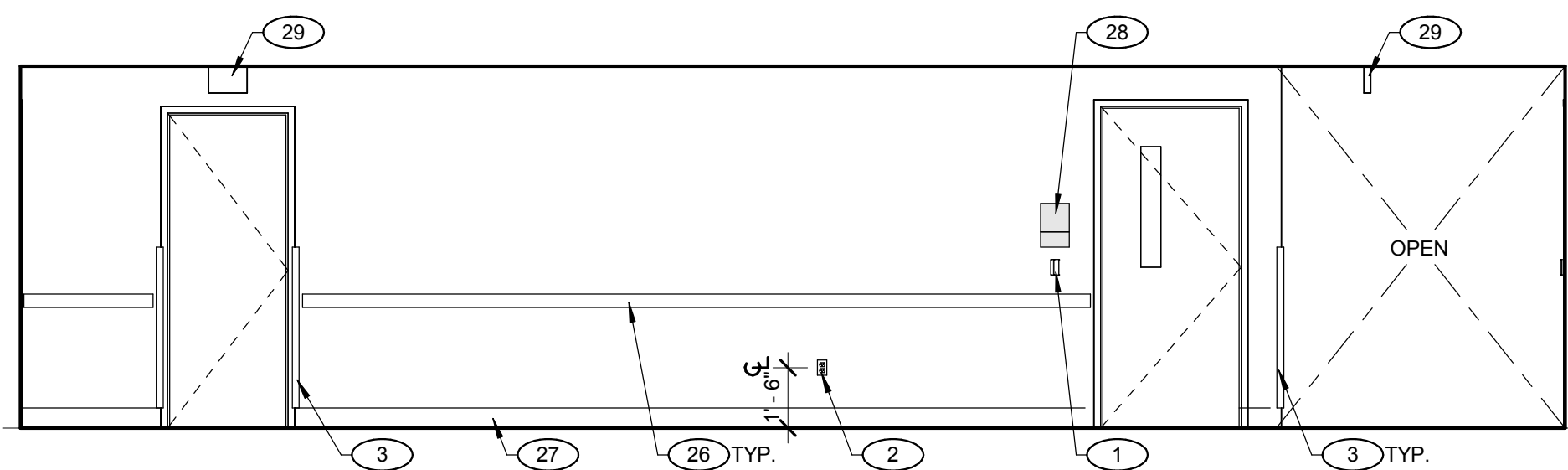
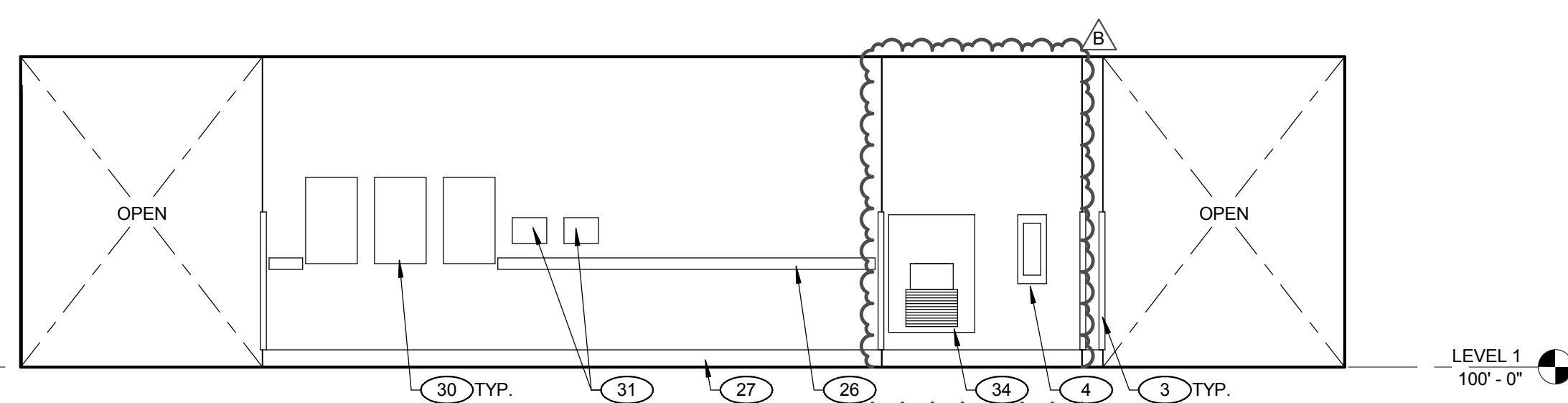
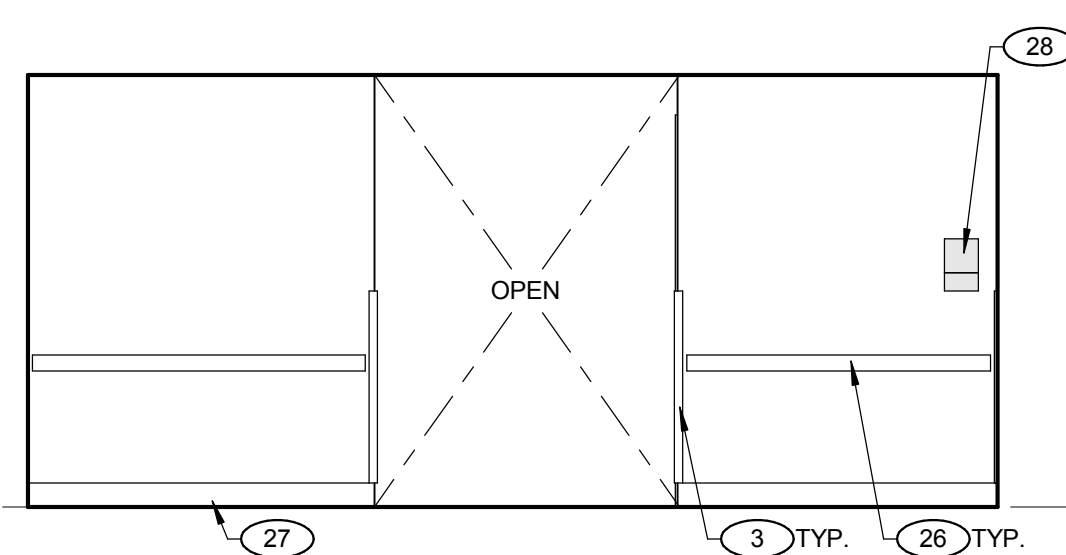
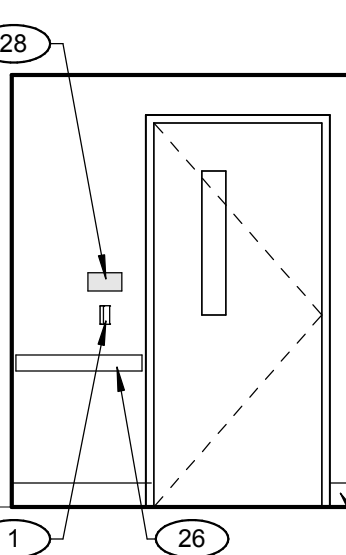
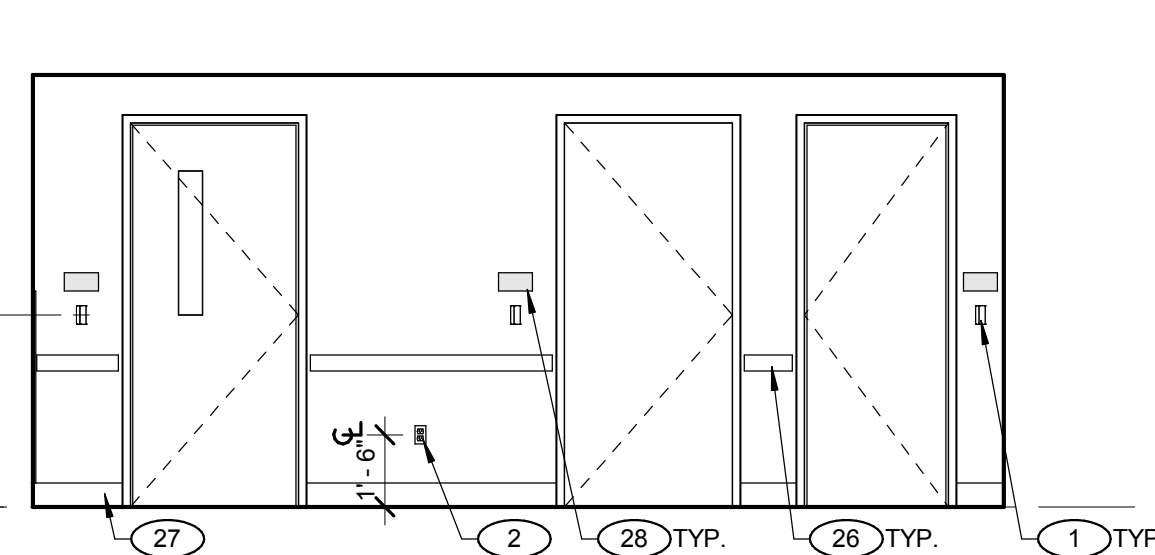
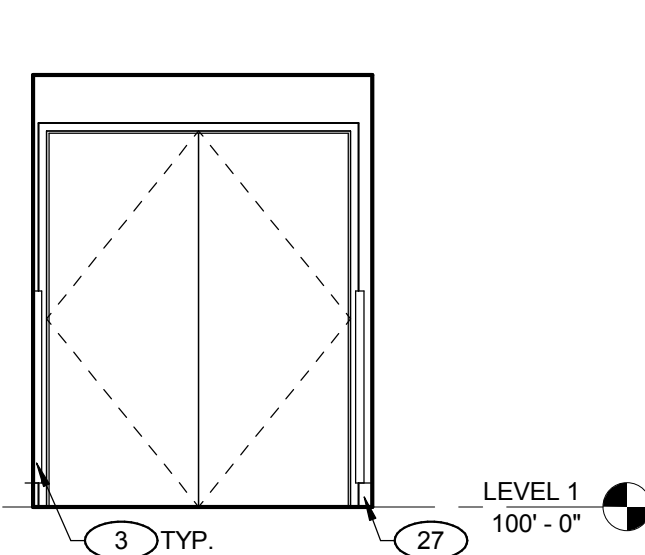
A5.00

21 VESTIBULE 006 - EAST
SCALE: 1/4" = 1'-0"20 VESTIBULE 006 - SOUTH
SCALE: 1/4" = 1'-0"19 TOILET 003 - SOUTH
SCALE: 1/4" = 1'-0"18 TOILET 005 - EAST
SCALE: 1/4" = 1'-0"17 VESTIBULE 006 - WEST
SCALE: 1/4" = 1'-0"16 VESTIBULE 006 - NORTH
SCALE: 1/4" = 1'-0"15 TOILET 005 - WEST
SCALE: 1/4" = 1'-0"14 TOILET 005 - NORTH
SCALE: 1/4" = 1'-0"13 QUARANTINE 002 - EAST
SCALE: 1/4" = 1'-0"12 QUARANTINE 002 - SOUTH
SCALE: 1/4" = 1'-0"11 QUARANTINE 002 - WEST
SCALE: 1/4" = 1'-0"10 QUARANTINE 002 - NORTH
SCALE: 1/4" = 1'-0"

TOILET ACCESSORIES SCHEDULE				
SYMBOL	DESCRIPTION	MANUFACTURER	MFR. NO.	MOUNTING HEIGHT
(TA-1)	SANITARY NAPKIN RECEPTACLE	BOBRICK	B-270	2'-0" A.F.F.
(TA-2)	TOILET SEAT COVER DISPENSER	BOBRICK	B-301	3'-6" A.F.F.
(TA-3)	TOILET TISSUE ROLL DISPENSER	BOBRICK	B-2888	2'-0" A.F.F.
(TA-4)	PAPER TOWEL DISPENSER/ WASTE RECEPTACLE	BOBRICK	B-38032	3'-6" A.F.F. TO OPERABLE PORTION OF UNIT
(TA-5)	LIQUID SOAP DISPENSER	BOBRICK	B-818615	3'-10" A.F.F.
(TA-6)	36" 1-1/2" DIA. S.S. GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B-6806x36	2'-11" A.F.F.
(TA-7)	42" 1-1/2" DIA. S.S. GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B-6806x42	2'-11" A.F.F.
(TA-8)	18" 1-1/2" DIA. S.S. GRAB BAR W/ CONCEALED MOUNTING	BOBRICK	B6806x18	2'-11" A.F.F.
(TA-9)	MIRROR W/ S.S. ANGLE FRAME	BOBRICK	B-165 2436	3'-4" A.F.F. TO REFLECTIVE SURFACE
(TA-10)	MOP/BROOM HOLDER			5'-6" A.F.F.

NOTES:

1. ALL ELEVATIONS ARE TO TOP OF UNIT (UNLESS NOTED OTHERWISE).
2. MOUNTING HEIGHTS PER SCHEDULE (UNLESS NOTED OTHERWISE ON INTERIOR ELEVATIONS).

9 CORRIDOR 001 - J
SCALE: 1/4" = 1'-0"8 CORRIDOR 001 - H
SCALE: 1/4" = 1'-0"7 CORRIDOR 001 - G
SCALE: 1/4" = 1'-0"6 CORRIDOR 001 - F
SCALE: 1/4" = 1'-0"5 CORRIDOR 001 - E
SCALE: 1/4" = 1'-0"4 CORRIDOR 001 - D
SCALE: 1/4" = 1'-0"3 CORRIDOR 001 - C
SCALE: 1/4" = 1'-0"2 CORRIDOR 001 - B
SCALE: 1/4" = 1'-0"1 CORRIDOR 001 - A
SCALE: 1/4" = 1'-0"

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INTERIOR
ELEVATIONS - PHASE
1

Date: 06/17/2016

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GENERAL NOTES

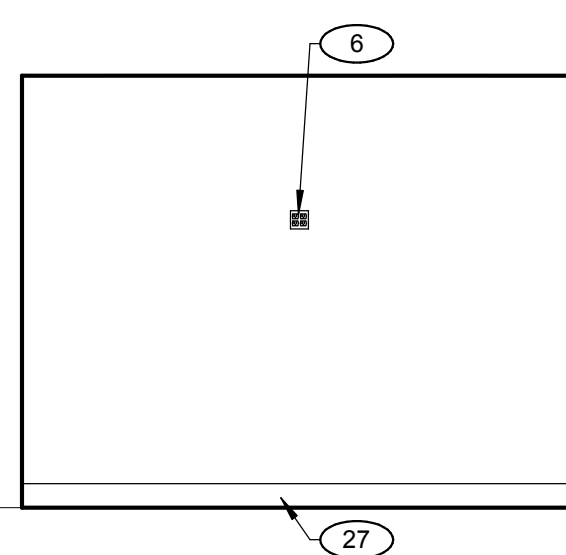
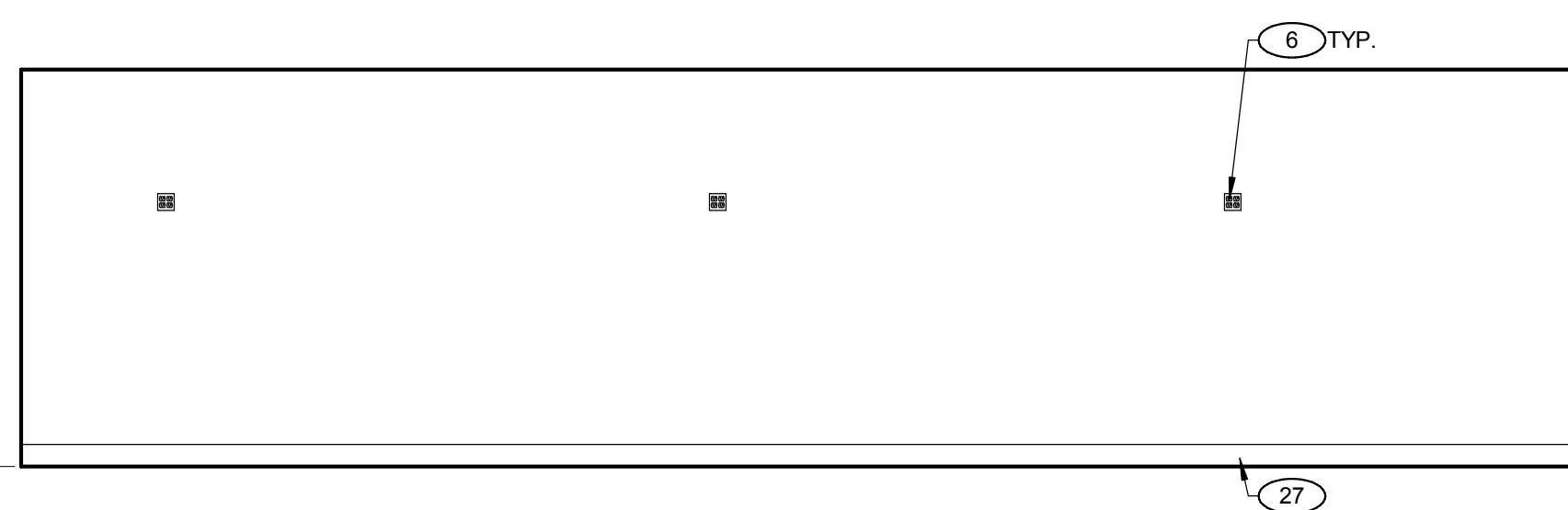
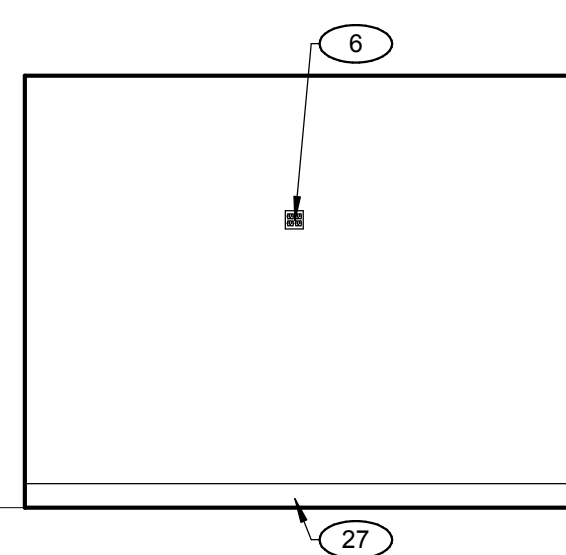
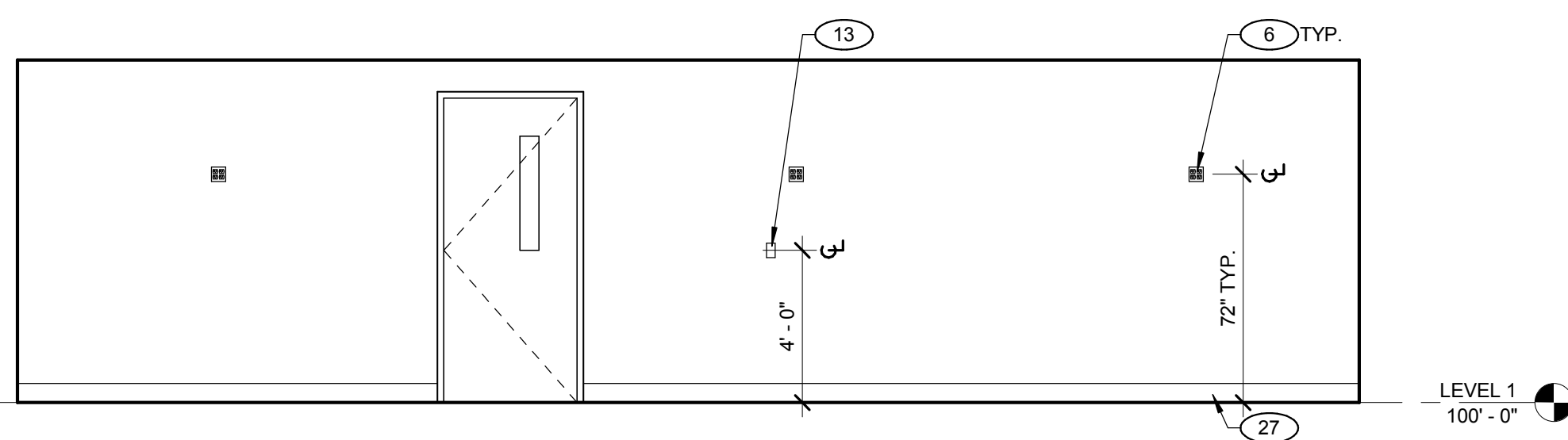
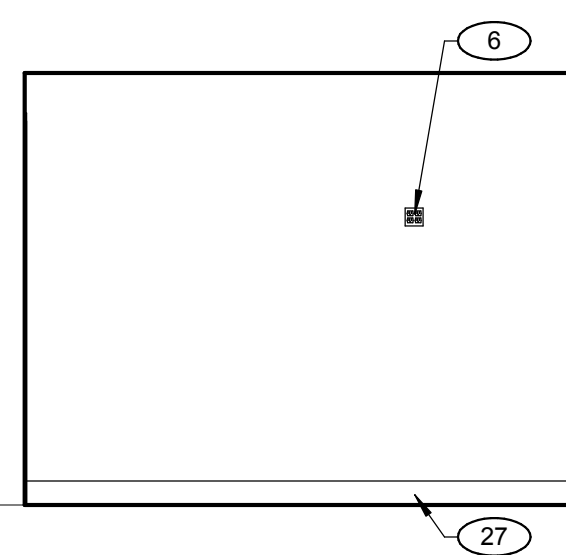
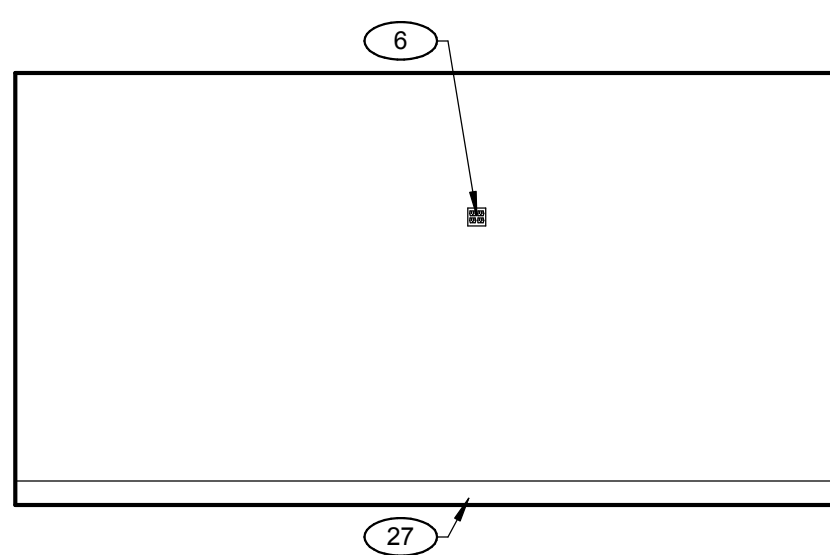
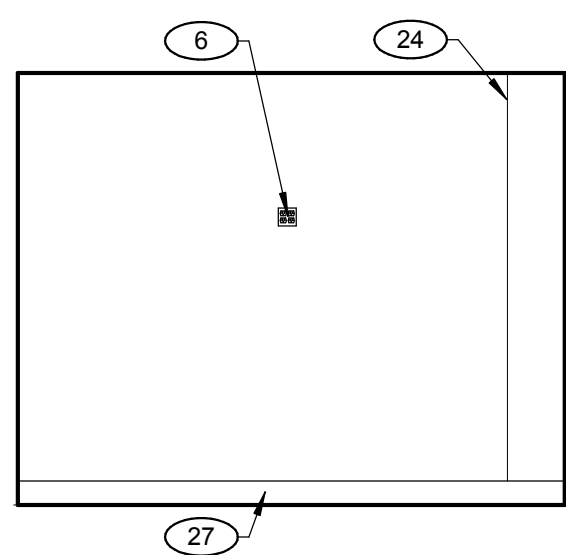
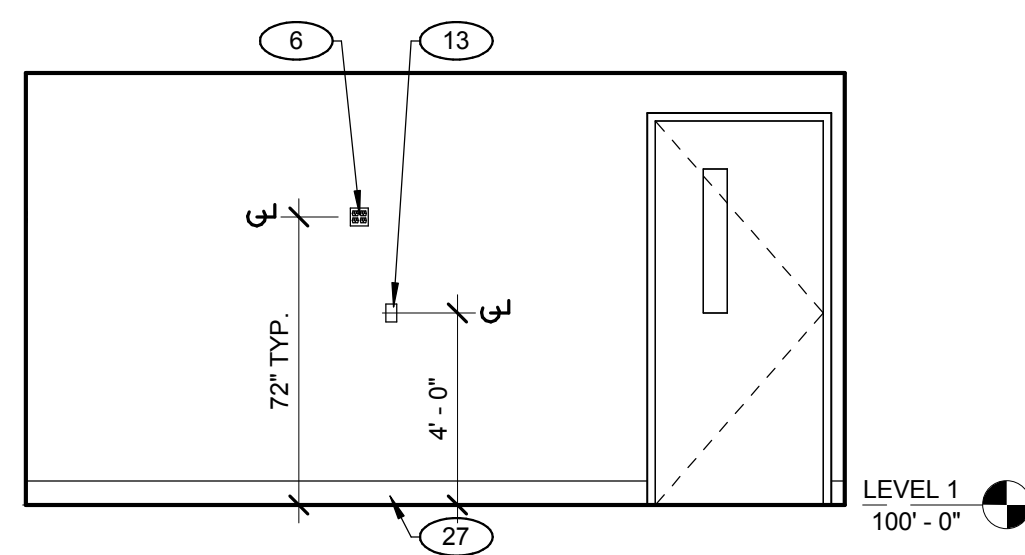
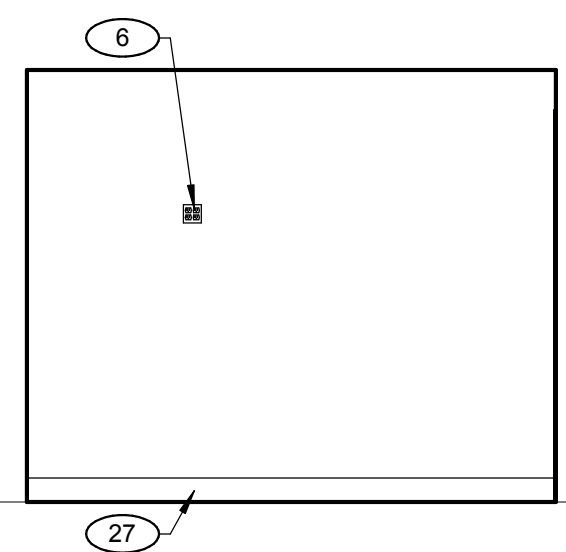
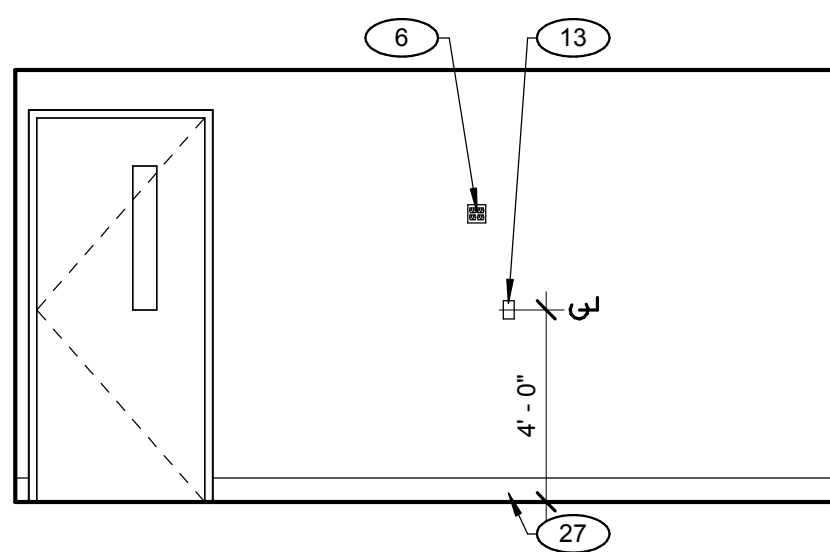
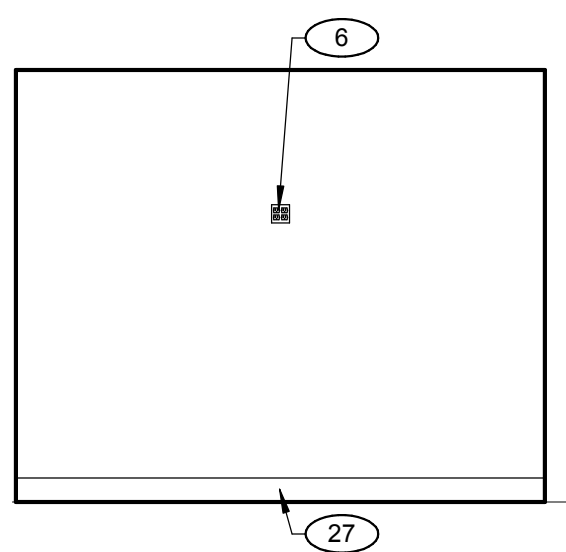
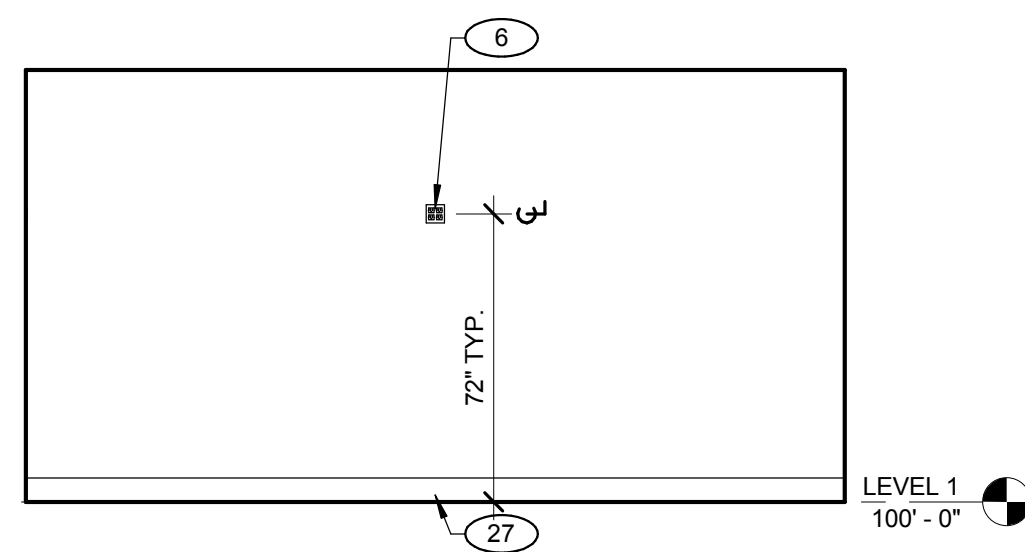
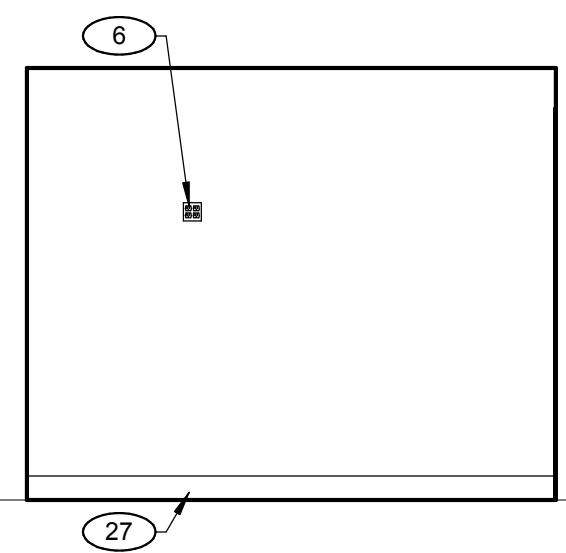
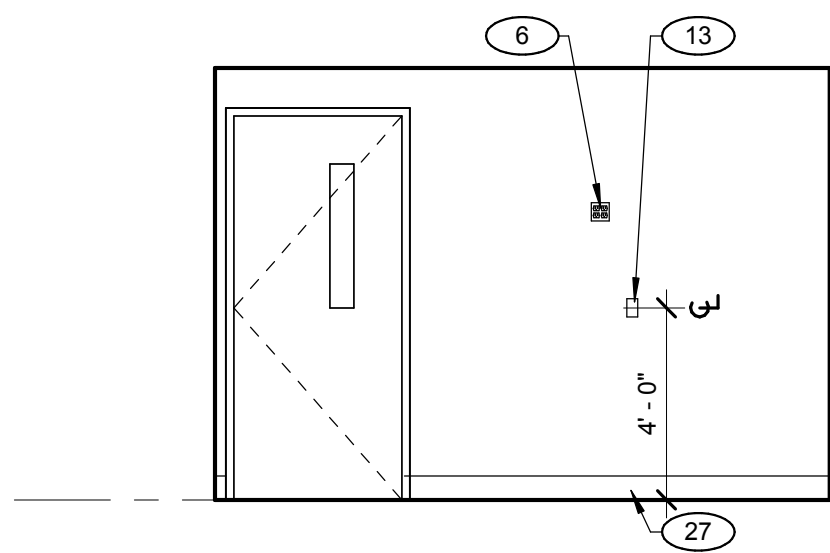
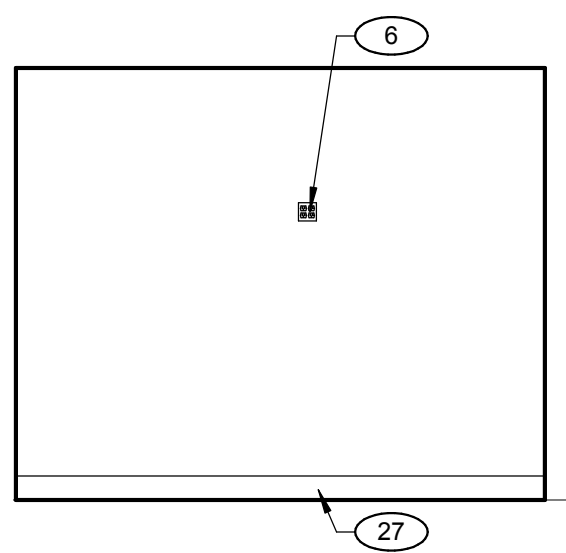
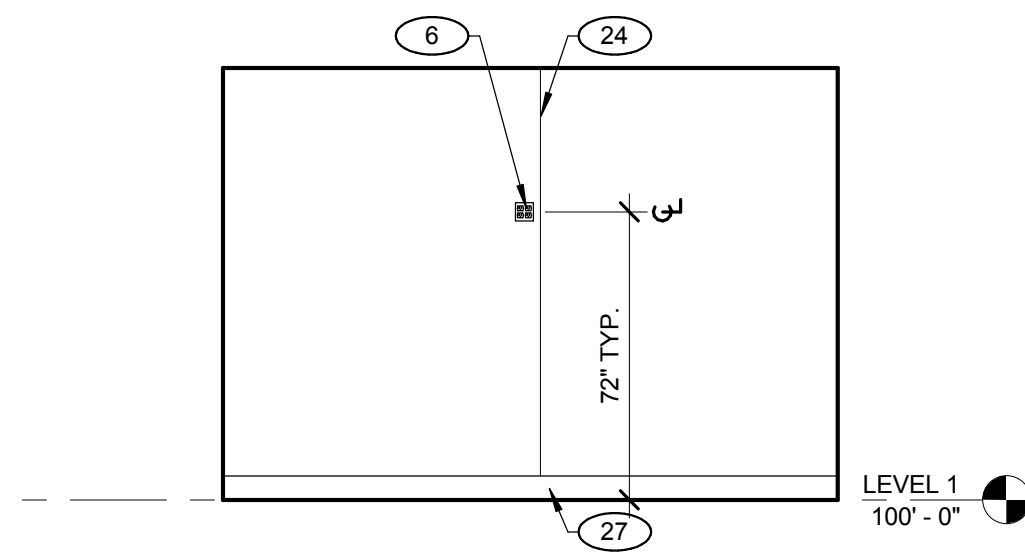
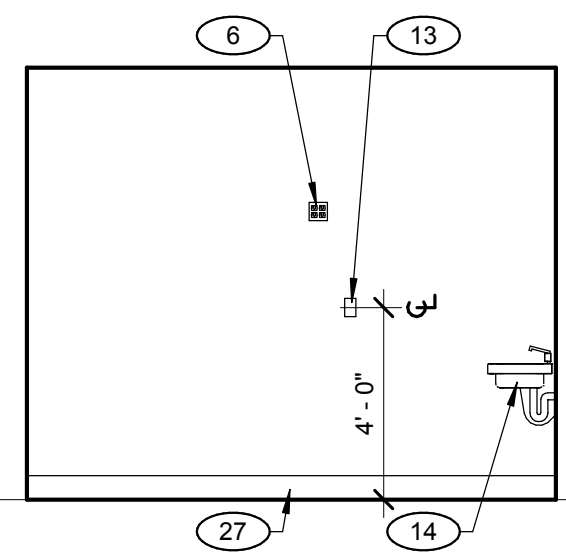
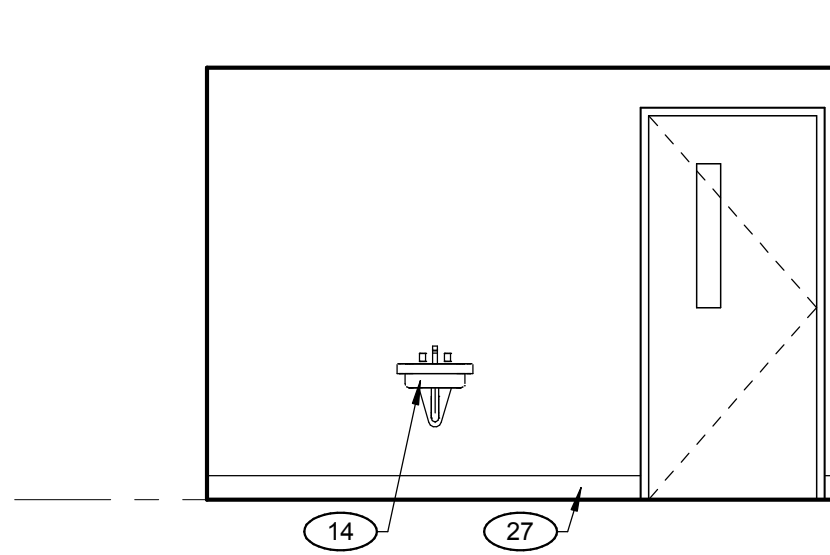
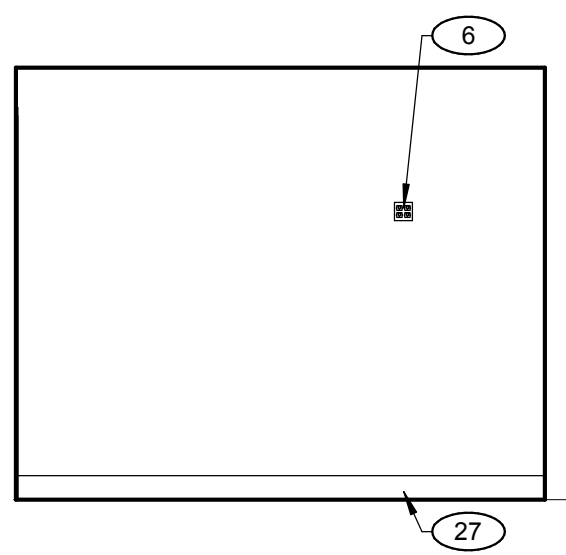
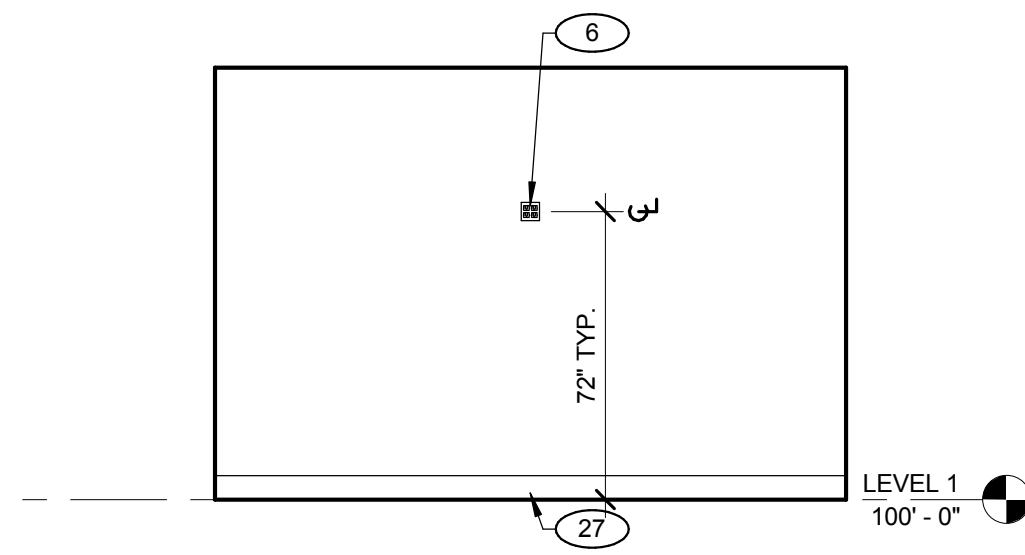
1. REFERENCE G1.00 FOR TYPICAL ADA FIXTURE ELEVATIONS.
2. *ACC.* DENOTES FIXTURES THAT NEED TO COMPLY WITH ADA STANDARDS.
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING ALL CASEWORK.
4. ALL CASEWORK TO BE LOCKABLE.

KEYNOTES

1. CAR READER DEVICE
2. DUPLEX RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
3. CORNER GUARD CG-1 - REFER TO MATERIAL SCHEDULE
4. FIRE EXTINGUISHER CABINET - MOUNT T.O. CABINET AT +48" A.F.F.
5. STAINLESS STEEL COUNTERTOP
6. QUAD RECEPTACLE - REFER TO ELECTRICAL DRAWINGS
7. MOP SINK - REFER TO PLUMBING DRAWINGS
8. SAFETY SHOWER/EYE WASH WITH SIGNAGE - MOUNT PER MFR INSTRUCTIONS SO THAT HANDLES ARE AT +48" A.F.F. - REFER TO PLUMBING DRAWINGS
9. CHEMICAL FUME HOOD
10. LAB PEGBOARD, CFCI
11. ADJUSTABLE STAINLESS STEEL SHELVING, CFCI
12. STAINLESS STEEL CASEWORK, CFCI - REFER TO CASEWORK DETAILS AND SPECIFICATIONS
13. TELEDATA RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
14. SINK - REFER TO PLUMBING DRAWINGS
15. PREP SINK - REFER TO PLUMBING DRAWINGS
16. SURGERY LIGHT - REFER TO ELECTRICAL DRAWINGS
17. DECK MOUNTED OXYGEN AND CARBON DIOXIDE BALL VALVES
18. OPOI CARBON DIOXIDE GAS CYLINDER
19. OPOI OXYGEN GAS CYLINDER
20. GAS MANIFOLD, CFCI, REFER TO PLUMBING DRAWINGS
21. HOT AND COLD WATER HOSE BIB - REFER TO PLUMBING DRAWINGS
22. HOSE AND HOSE REEL, CFCI
23. CONTROL JOINT - REFER TO DETAIL 12/A2.50
24. COUNTER SUPPORT BRACKET - PAINT TO MATCH ADJACENT WALL
25. ALUMINUM CRASH RAIL, CR-1, MOUNT AT 3'-0" A.F.F. - REFER TO MATERIAL SCHEDULE
26. INTEGRAL RESINOUS COVE BASE - REFER TO MATERIAL SCHEDULE
27. INTERIOR SIGNAGE, REFER TO SIGNAGE PLAN
28. EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
29. ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS
30. LIGHTING AND MECHANICAL CONTROL TABLETS - COORDINATE WITH ELECTRICAL AND MECHANICAL DRAWINGS
31. STAINLESS STEEL FILLER PANEL, AS REQUIRED
32. STAINLESS STEEL HOOD ADAPTER - REFER TO DETAIL 12/A3.10
33. ACCESSIBLE DRINKING FOUNTAIN

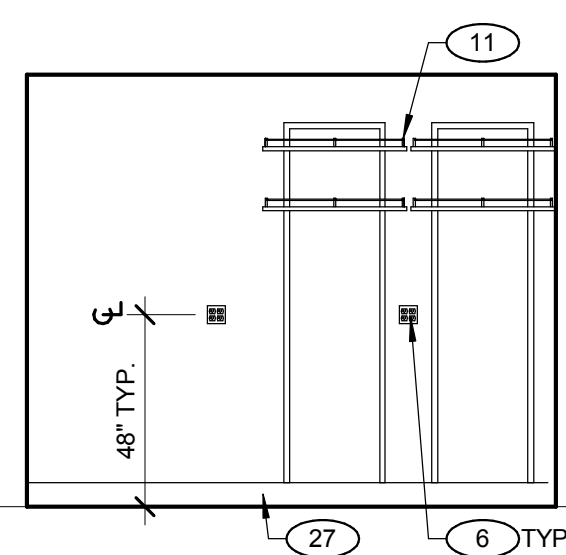
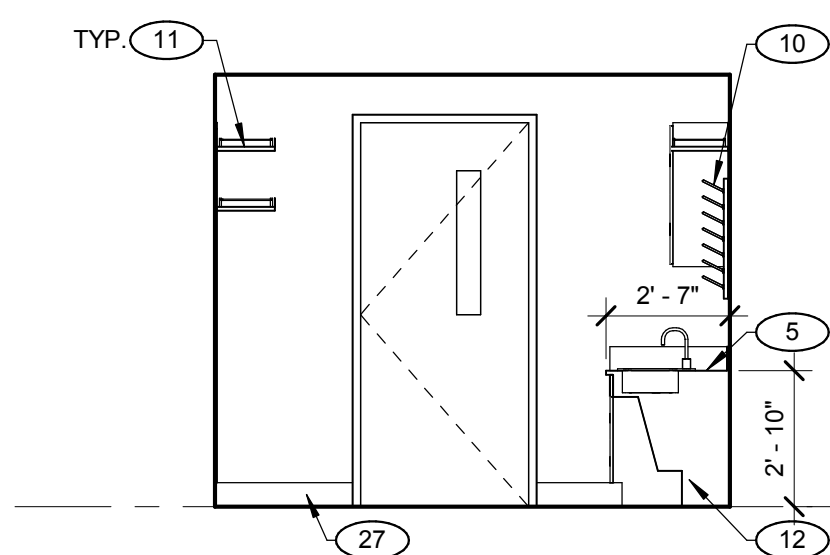
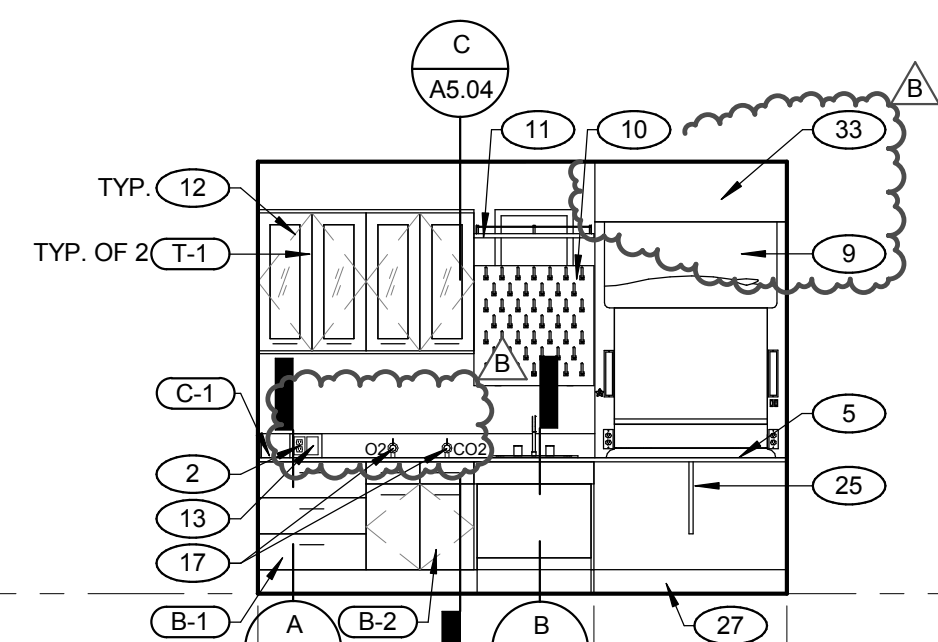
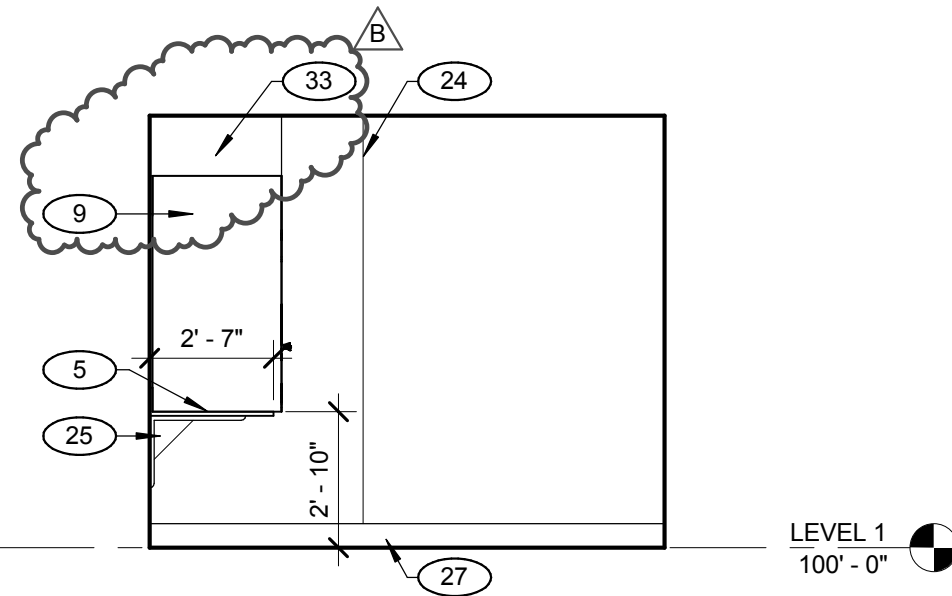
LEGEND

- SIGNAGE
- CARD READER
- RECEPTACLE

24 HOLD 012 - EAST
SCALE: 1/4" = 1'-0"23 HOLD 012 - SOUTH
SCALE: 1/4" = 1'-0"22 HOLD 012 - WEST
SCALE: 1/4" = 1'-0"21 HOLD 012 - NORTH
SCALE: 1/4" = 1'-0"20 HOLD 011 - EAST
SCALE: 1/4" = 1'-0"19 HOLD 011 - SOUTH
SCALE: 1/4" = 1'-0"18 HOLD 011 - WEST
SCALE: 1/4" = 1'-0"17 HOLD 011 - NORTH
SCALE: 1/4" = 1'-0"16 HOLD 010 - EAST
SCALE: 1/4" = 1'-0"15 HOLD 010 - SOUTH
SCALE: 1/4" = 1'-0"14 HOLD 010 - WEST
SCALE: 1/4" = 1'-0"13 HOLD 010 - NORTH
SCALE: 1/4" = 1'-0"12 HOLD 009 - EAST
SCALE: 1/4" = 1'-0"11 HOLD 009 - SOUTH
SCALE: 1/4" = 1'-0"10 HOLD 009 - WEST
SCALE: 1/4" = 1'-0"9 HOLD 009 - NORTH
SCALE: 1/4" = 1'-0"8 HOLD - ABSL2 008 - EAST
SCALE: 1/4" = 1'-0"7 HOLD - ABSL2 008 - SOUTH
SCALE: 1/4" = 1'-0"6 HOLD 008 - WEST
SCALE: 1/4" = 1'-0"5 HOLD - ABSL2 008 - NORTH
SCALE: 1/4" = 1'-0"

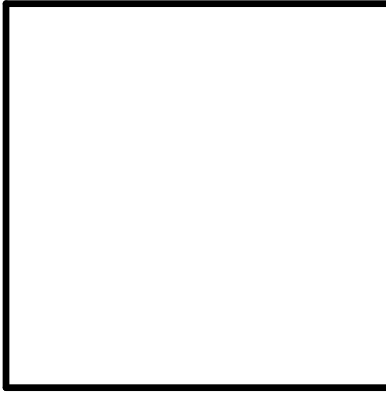
CASEWORK SCHEDULE		
CAB. NO.	W x H x D	CAB. DESCRIPTION
B-1	27" x 33" x 30"	3 DRAWERS
B-2	27" x 33" x 30"	2 DR, 2 DRAWERS, 1 ADJ. SHELF
B-3	36" x 33" x 24"	2 DR, 2 DRAWERS, 1 ADJ. SHELF
B-4	34" x 60" x 15"	2 DR, 3 ADJ. SHELVES
B-5	17" x 60" x 15"	1 DR, 3 ADJ. SHELVES
T-1	27" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-2	36" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-3	34" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-4	17" x 36" x 15"	1 DR W/ GLASS, 2 ADJ. SHELVES

COUNTERTOP SCHEDULE	
CO. NO.	CO. DESCRIPTION
C-1	31" STAINLESS STEEL
C-2	26" STAINLESS STEEL

4 PROCEDURE 007 - EAST
SCALE: 1/4" = 1'-0"3 PROCEDURE 007 - SOUTH
SCALE: 1/4" = 1'-0"2 PROCEDURE 007 - WEST
SCALE: 1/4" = 1'-0"1 PROCEDURE 007 - NORTH
SCALE: 1/4" = 1'-0"

tsk

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Consultant

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Project

UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

GENERAL NOTES

1. REFERENCE G1.00 FOR TYPICAL ADA FIXTURE ELEVATIONS.
2. *ACC.* DENOTES FIXTURES THAT NEED TO COMPLY WITH ADA STANDARDS.
3. FIELD VERIFY ALL DIMENSIONS PRIOR TO MANUFACTURING ALL CASEWORK.
4. ALL CASEWORK TO BE LOCKABLE.

KEYNOTES

1. CAR READER DEVICE
2. DUPLEX RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
3. CORNER GUARD C6-1 - REFER TO MATERIAL SCHEDULE
4. FIRE EXTINGUISHER CABINET - MOUNT T.O. CABINET AT +48" A.F.F.
5. STAINLESS STEEL COUNTERTOP
6. QUAD RECEPTACLE - REFER TO ELECTRICAL DRAWINGS
7. MOP SINK - REFER TO PLUMBING DRAWINGS
8. SAFETY SHOWER/EYE WASH WITH SIGNAGE - MOUNT PER MFR INSTRUCTIONS SO THAT HANDLES ARE AT +48" A.F.F. - REFER TO PLUMBING DRAWINGS
9. CHEMICAL FUME HOOD
10. LAB PEGBOARD, CFCI
11. ADJUSTABLE STAINLESS STEEL SHELVING, CFCI
12. STAINLESS STEEL CASEWORK, CFCI - REFER TO CASEWORK DETAILS AND SPECIFICATIONS
13. TELEDATA RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
14. SINK - REFER TO PLUMBING DRAWINGS
15. PREP SINK - REFER TO PLUMBING DRAWINGS
16. SURGERY LIGHT - REFER TO ELECTRICAL DRAWINGS
17. DECK MOUNTED OXYGEN AND CARBON DIOXIDE BALL VALVES
18. O2/O2 CARBON DIOXIDE GAS CYLINDER
19. O2/O2 OXYGEN GAS CYLINDER
20. GAS CYLINDER RESTRAINTS, CFCI
21. GAS MANIFOLD, CFCI, REFER TO PLUMBING DRAWINGS
22. HOT AND COLD WATER HOSE BIB - REFER TO PLUMBING DRAWINGS
23. HOSE AND HOSE REEL, CFCI
24. CONTROL JOINT - REFER TO DETAIL 12/A2.50
25. COUNTER SUPPORT BRACKET - PAINT TO MATCH ADJACENT WALL
26. ALUMINUM CRASH RAIL, CR-1 - MOUNT AT 3'-0" A.F.F. - REFER TO MATERIAL SCHEDULE
27. INTEGRAL RESINOUS COVE BASE - REFER TO MATERIAL SCHEDULE
28. INTERIOR SIGNAGE, REFER TO SIGNAGE PLAN
29. EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
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33. STAINLESS STEEL HOOD ADAPTER - REFER TO DETAIL 12/A3.10
34. ACCESSIBLE DRINKING FOUNTAIN

LEGEND

- SIGNAGE
- CARD READER
- RECEPTACLE

PERMIT SET

REVISIONS		DESCRIPTION
REV	DATE	
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

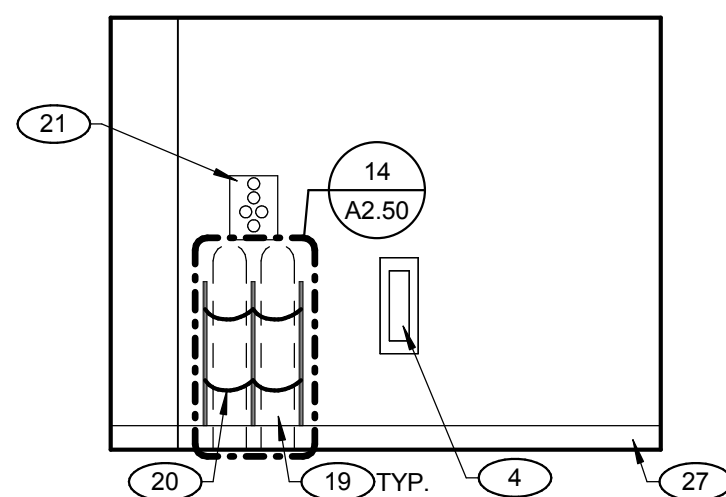
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INTERIOR
ELEVATIONS - PHASE
1

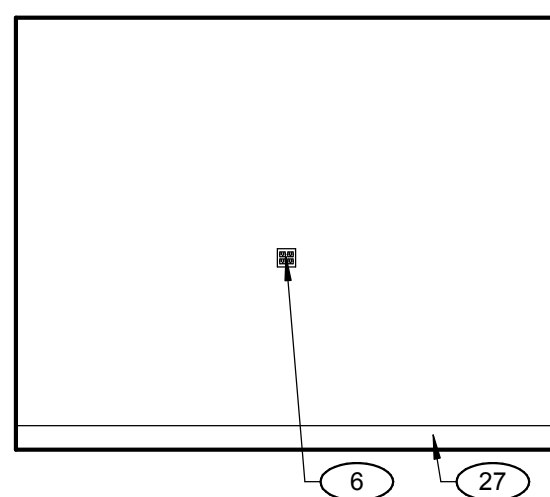
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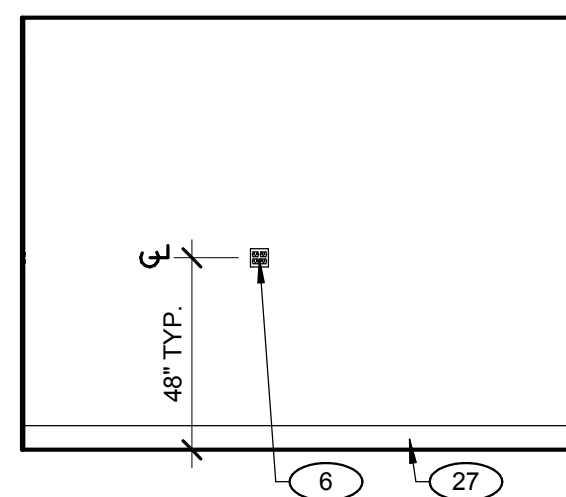
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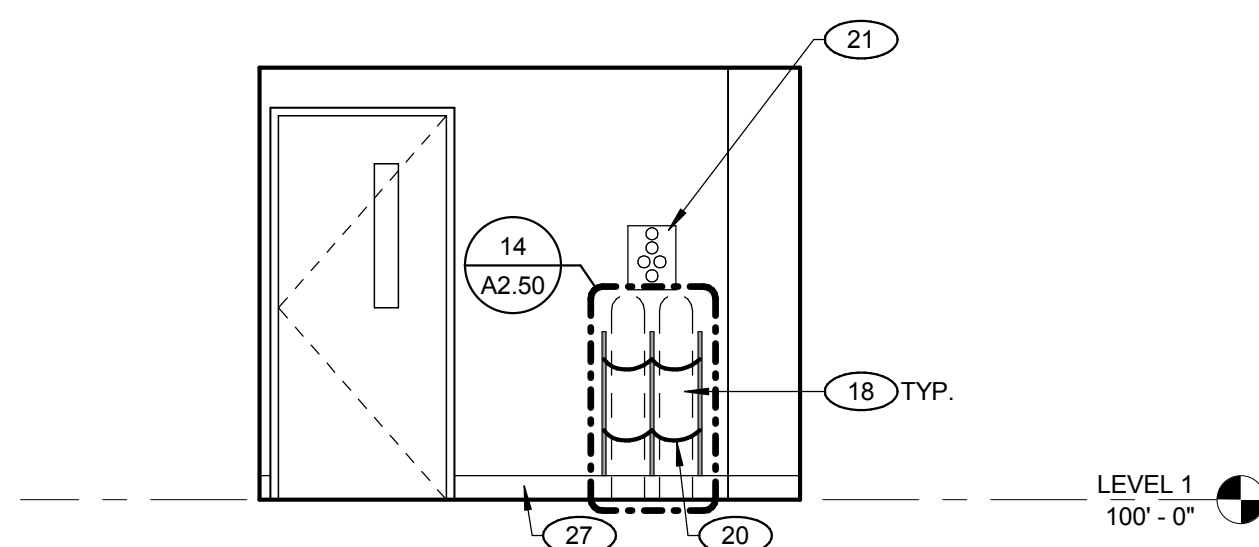
12 STORAGE 028 - EAST
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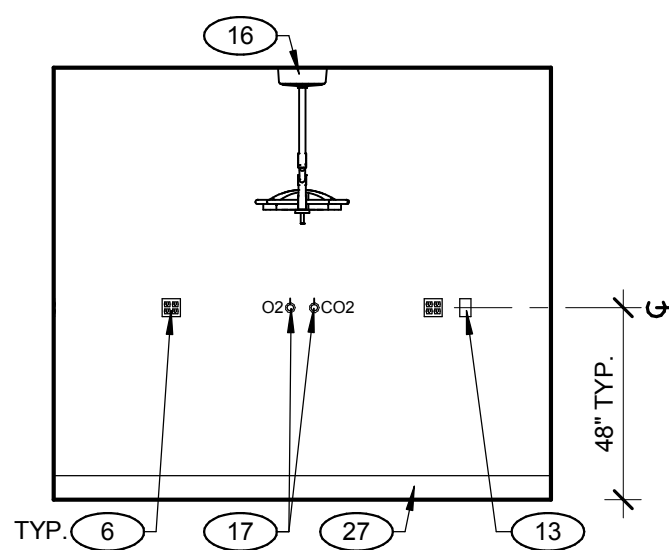
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SCALE: 1/4" = 1'-0"



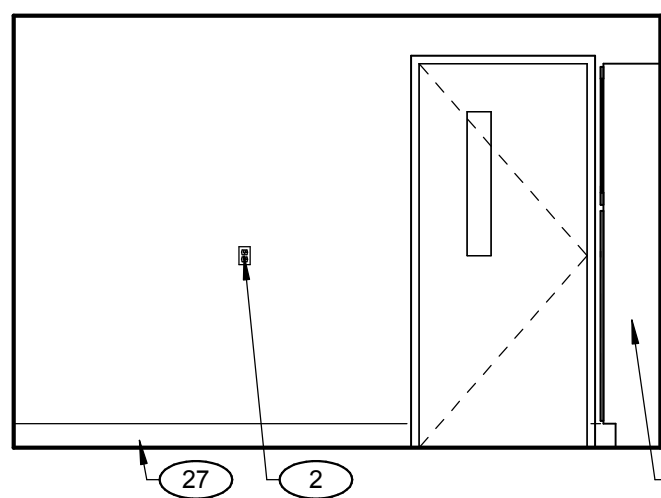
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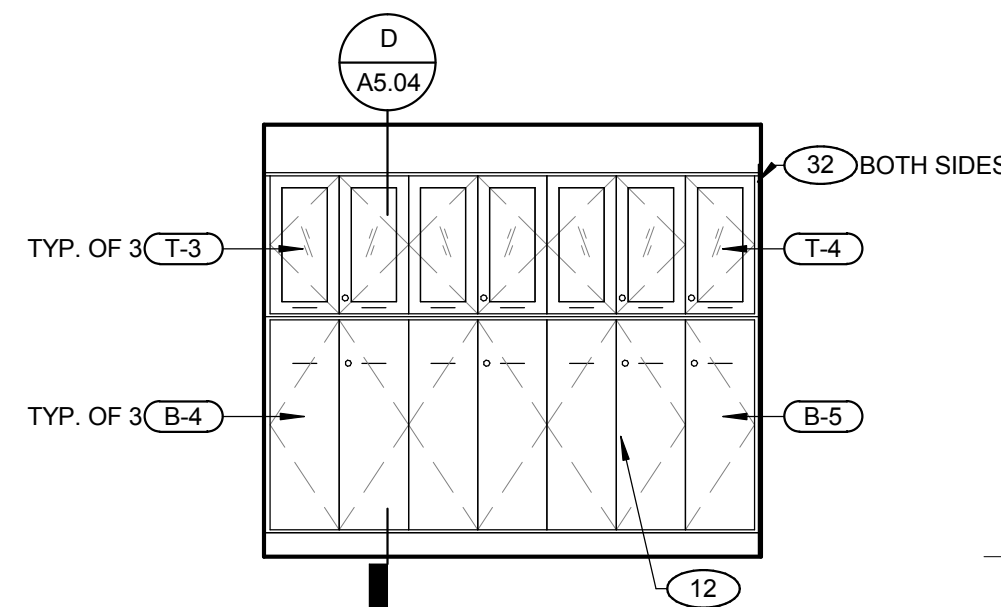
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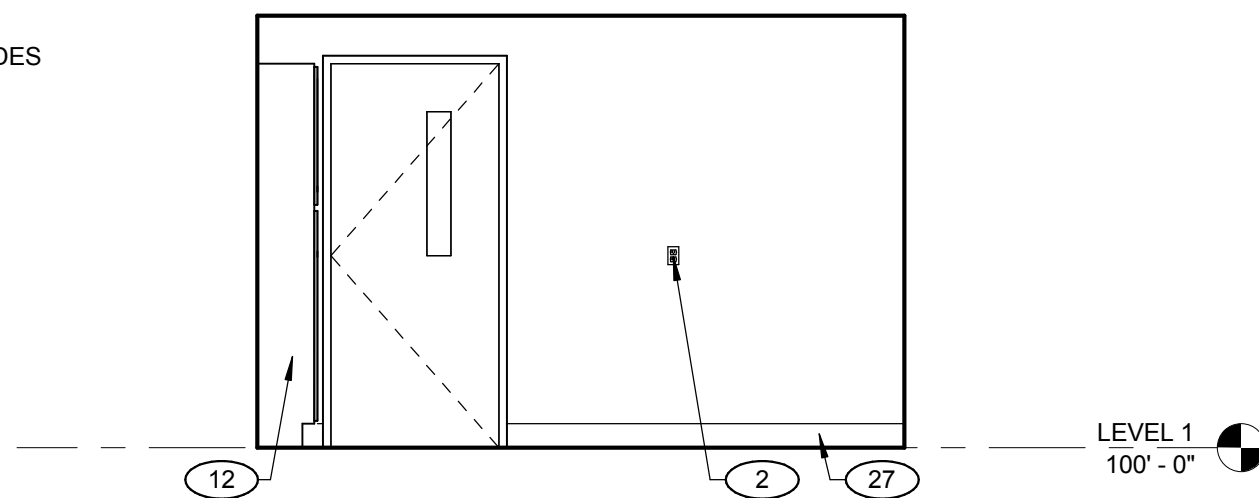
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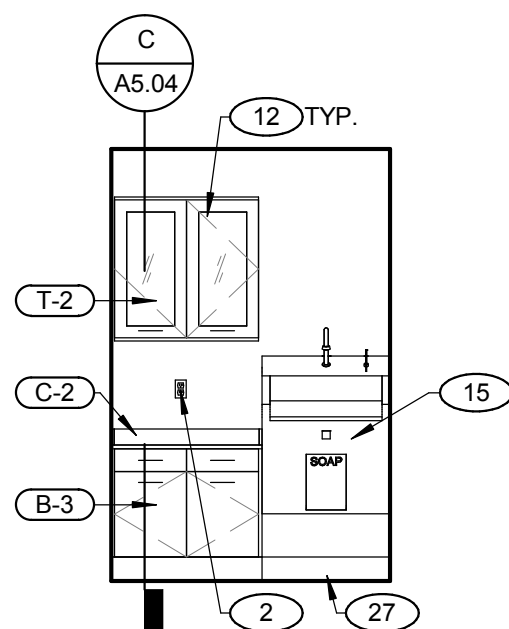
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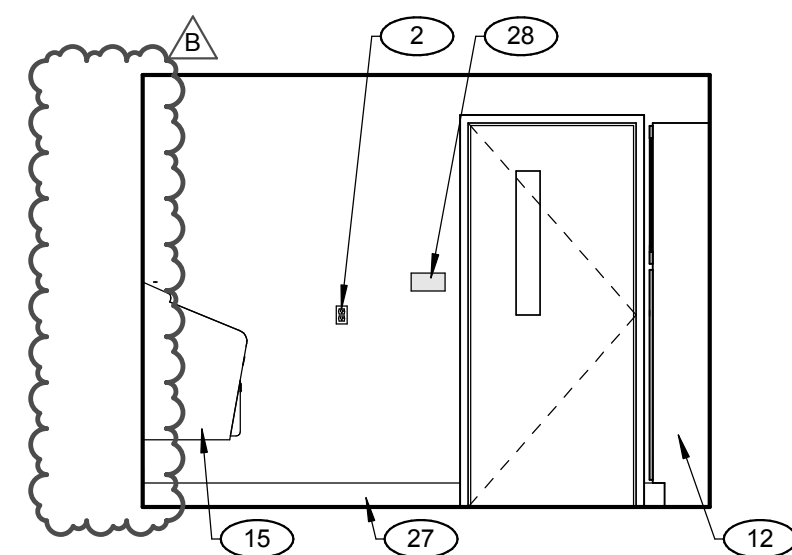
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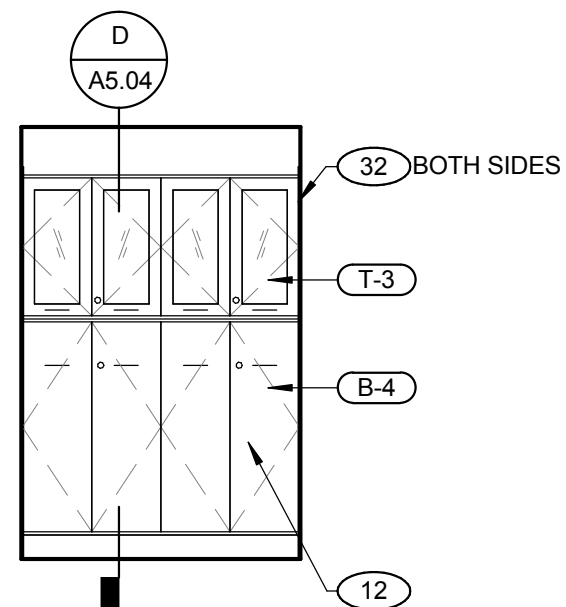
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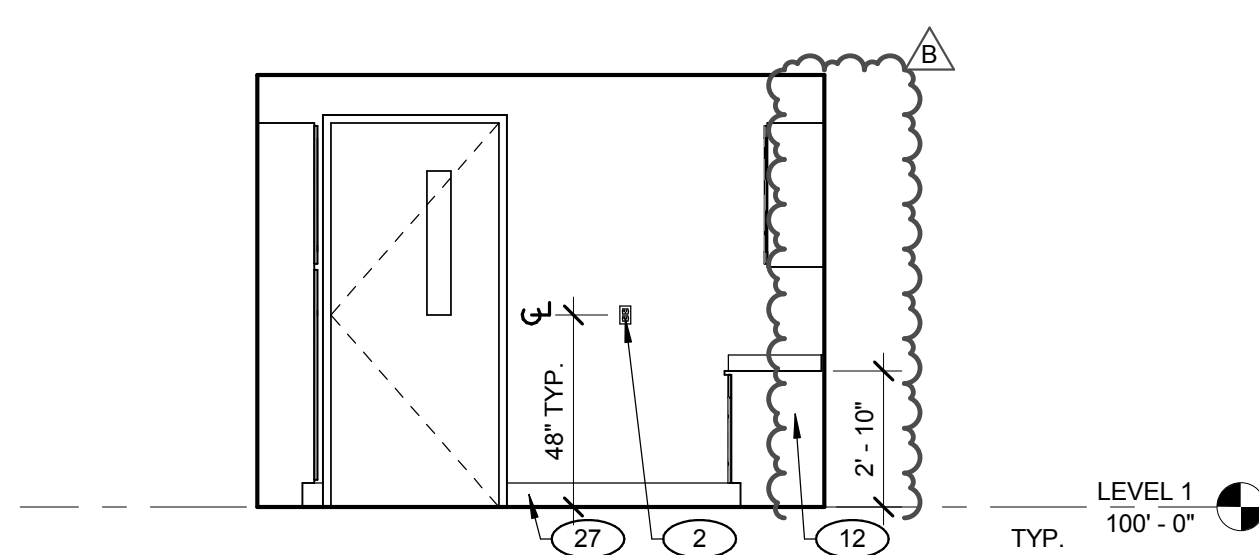
4 PREP 013 - EAST
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3 PREP 013 - SOUTH
SCALE: 1/4" = 1'-0"



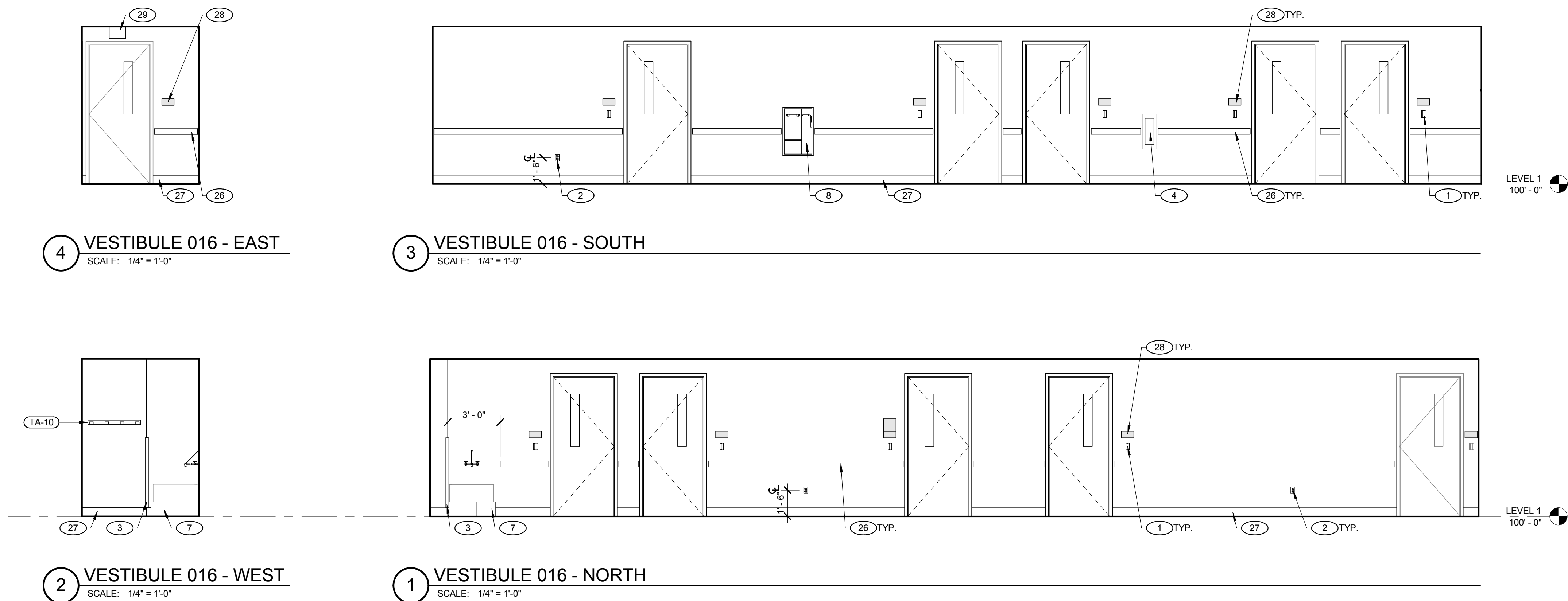
2 PREP 013 - WEST
SCALE: 1/4" = 1'-0"



1 PREP 013 - NORTH
SCALE: 1/4" = 1'-0"

CASEWORK SCHEDULE		
CAB. NO.	W x H x D	CAB. DESCRIPTION
B-1	27" x 33" x 30"	3 DRAWERS
B-2	27" x 33" x 30"	2 DR, 2 DRAWERS, 1 ADJ. SHELF
B-3	36" x 33" x 24"	2 DR, 2 DRAWERS, 1 ADJ. SHELF
B-4	34" x 60" x 15"	2 DR, 3 ADJ. SHELVES
B-5	17" x 60" x 15"	1 DR, 3 ADJ. SHELVES
T-1	27" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-2	36" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-3	34" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
T-4	17" x 36" x 15"	1 DR W/ GLASS, 2 ADJ. SHELVES

COUNTERTOP SCHEDULE	
CO. NO.	CO. DESCRIPTION
C-1	31" STAINLESS STEEL
C-2	26" STAINLESS STEEL



CASEWORK SCHEDULE		
CAB. NO.	W x H x D	CAB. DESCRIPTION
B-1	27" x 33" x 30"	3 DRAWERS
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B-4	34" x 60" x 15"	2 DR. 3 ADJ. SHELVES
B-5	17" x 60" x 15"	1 DR. 3 ADJ. SHELVES
T-1	27" x 36" x 15"	2 DR W/ GLASS, 2 ADJ. SHELVES
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GENERAL NOTES	
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2	*ACC.* DENOTES FIXTURES THAT NEED TO COMPLY WITH ADA STANDARDS.
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KEYNOTES	
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2	DUPLEX RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
3	CORNER GUARD (G-1) - REFER TO MATERIAL SCHEDULE
4	FIRE EXTINGUISHER CABINET - MOUNT T.O. CABINET AT +48" A.F.F.
5	STAINLESS STEEL COUNTERTOP
6	QUAD RECEPTACLE - REFER TO ELECTRICAL DRAWINGS
7	MOP SINK - REFER TO PLUMBING DRAWINGS
8	SAFETY SHOWER/EYE WASH WITH SIGNAGE - MOUNT PER MFR INSTRUCTIONS SO THAT HANDLES ARE AT +48" A.F.F. - REFER TO PLUMBING DRAWINGS
9	CHEMICAL FUME HOOD
10	LAB PEGBOARD, CFCI
11	ADJUSTABLE STAINLESS STEEL SHELVING, CFCI
12	STAINLESS STEEL CASEWORK, CFCI - REFER TO CASEWORK DETAILS AND SPECIFICATIONS
13	TELEPHONE RECEPTACLE IN DECK MOUNTED BOX - REFER TO ELECTRICAL DRAWINGS
14	SINK - REFER TO PLUMBING DRAWINGS
15	PREP SINK - REFER TO PLUMBING DRAWINGS
16	SURGERY LIGHT - REFER TO ELECTRICAL DRAWINGS
17	DECK MOUNTED OXYGEN AND CARBON DIOXIDE BALL VALVES
18	OFCI CARBON DIOXIDE GAS CYLINDER
19	OFCI OXYGEN GAS CYLINDER
20	GAS MANIFOLD, CFCI, REFER TO PLUMBING DRAWINGS
21	HOT AND COLD WATER HOSE BIB - REFER TO PLUMBING DRAWINGS
22	HOSE AND HOSE REEL, CFCI
23	CONTROL JOINT - REFER TO DETAIL 12/A2.50
24	COUNTER SUPPORT BRACKET - PAINT TO MATCH ADJACENT WALL
25	ALUMINUM CRASH RAIL, CR-1, MOUNT AT 3'-0" A.F.F. - REFER TO MATERIAL SCHEDULE
27	INTEGRAL RESINOUS COVE BASE - REFER TO MATERIAL SCHEDULE
28	INTERIOR SIGNAGE, REFER TO SIGNAGE PLAN
29	EXIT SIGN - REFER TO ELECTRICAL DRAWINGS
30	ELECTRICAL PANEL - REFER TO ELECTRICAL DRAWINGS
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32	STAINLESS STEEL FILLER PANEL, AS REQUIRED
33	STAINLESS STEEL HOOD ADAPTER - REFER TO DETAIL 12/A3.10
34	ACCESSIBLE DRINKING FOUNTAIN

LEGEND	
	SIGNAGE
	CARD READER
	RECEPTACLE

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Project

UNLV VIVARIUM

4505 SOUTH MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF NEVADA, LAS VEGAS

PERMIT SET

REVISIONS	
REV	DESCRIPTION
A	08/05/16 ADDENDUM A
B	08/19/16 ADDENDUM B

Sheet Title

INTERIOR ELEVATIONS - PHASE 2

Date: 06/17/2016

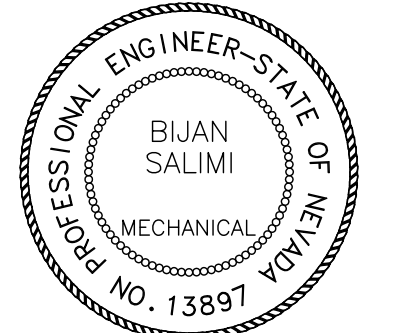
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Sigma Mechanical
Engineering Consultants187 E. Warm Springs Road, Suite A
Las Vegas, NV 89119 (702) 315-4272DATE: 06/16/16
EXP. DATE: 06/30/16
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Project

UNLV VIVARIUM4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

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NEVADA, LAS VEGAS****PERMIT SET**

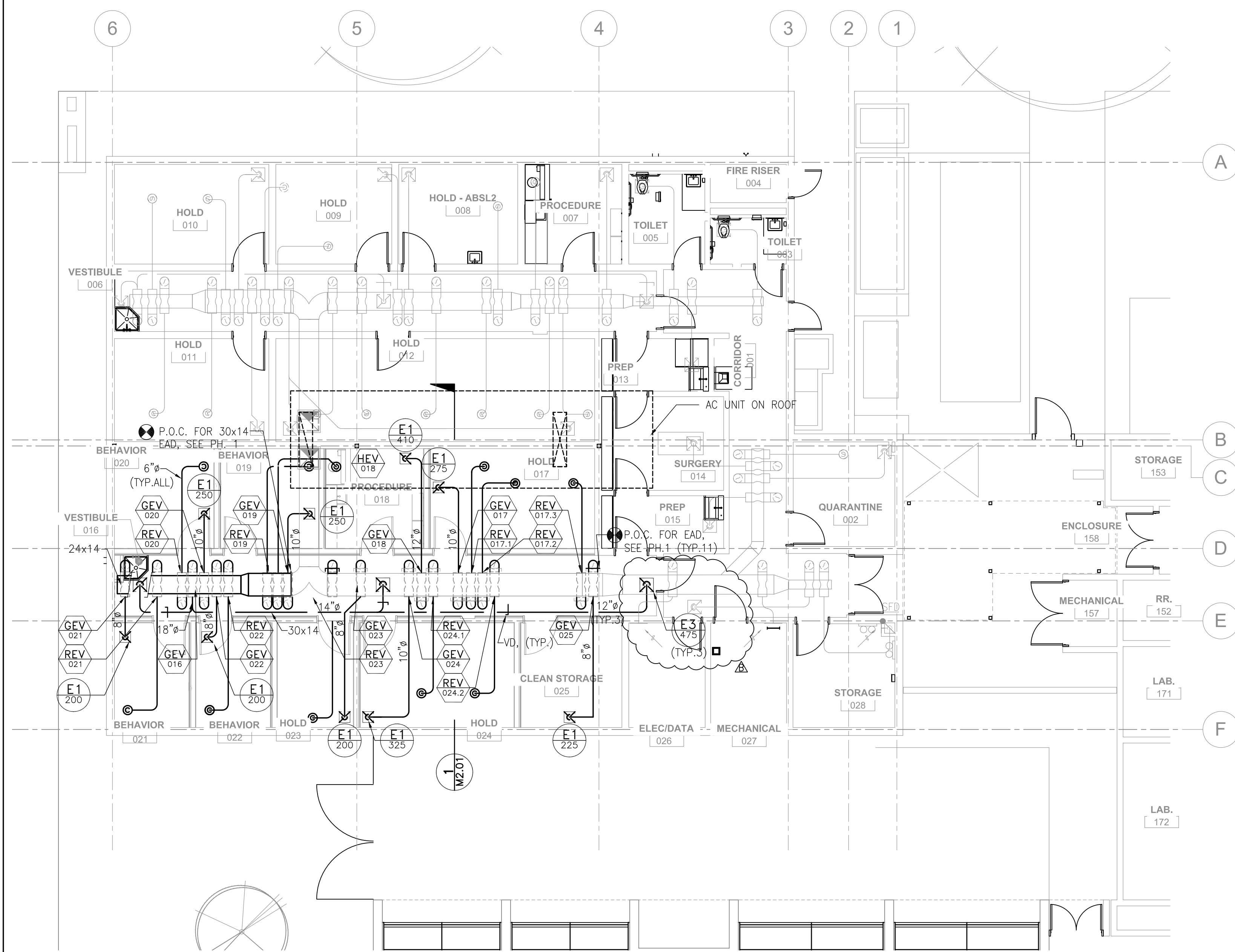
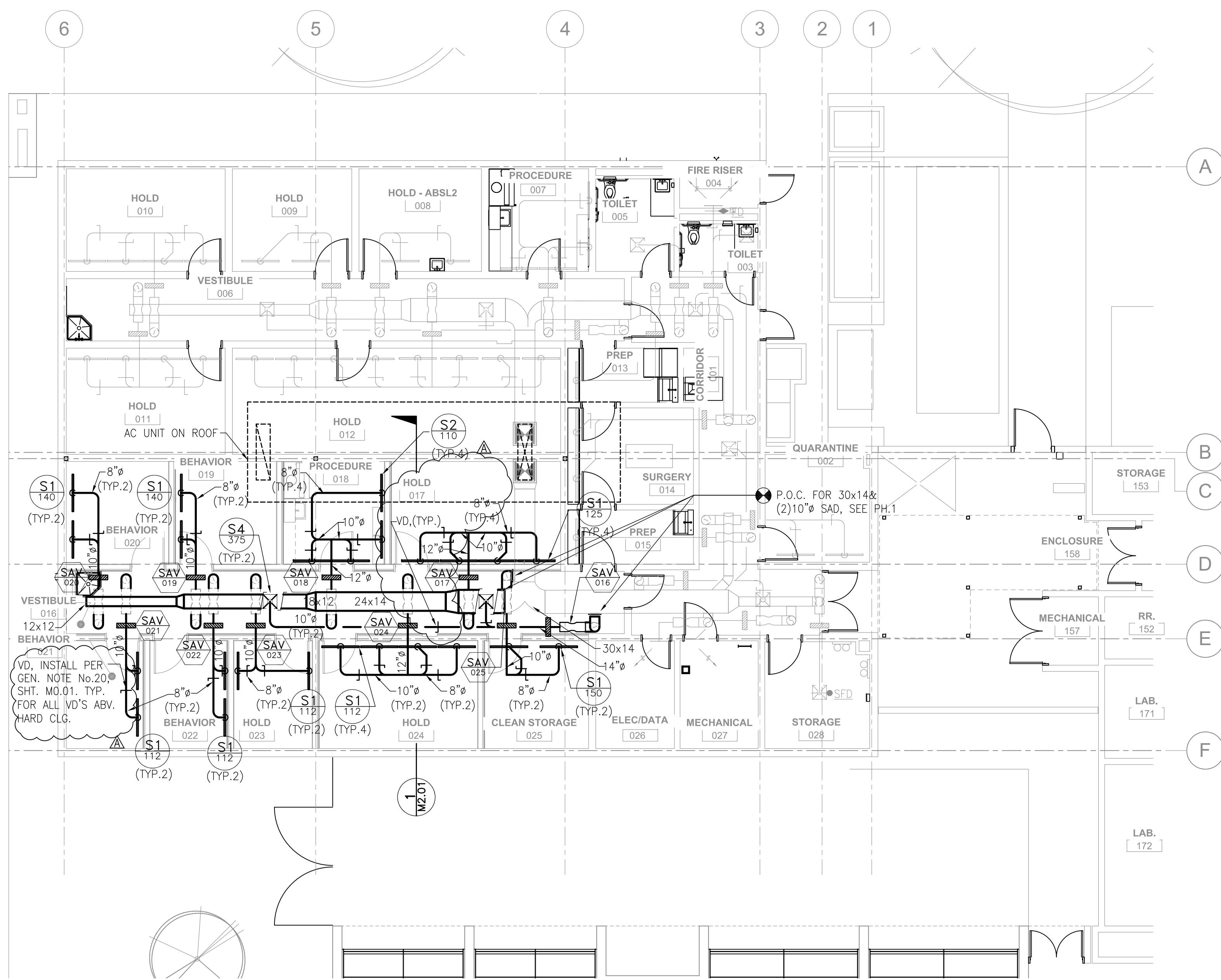
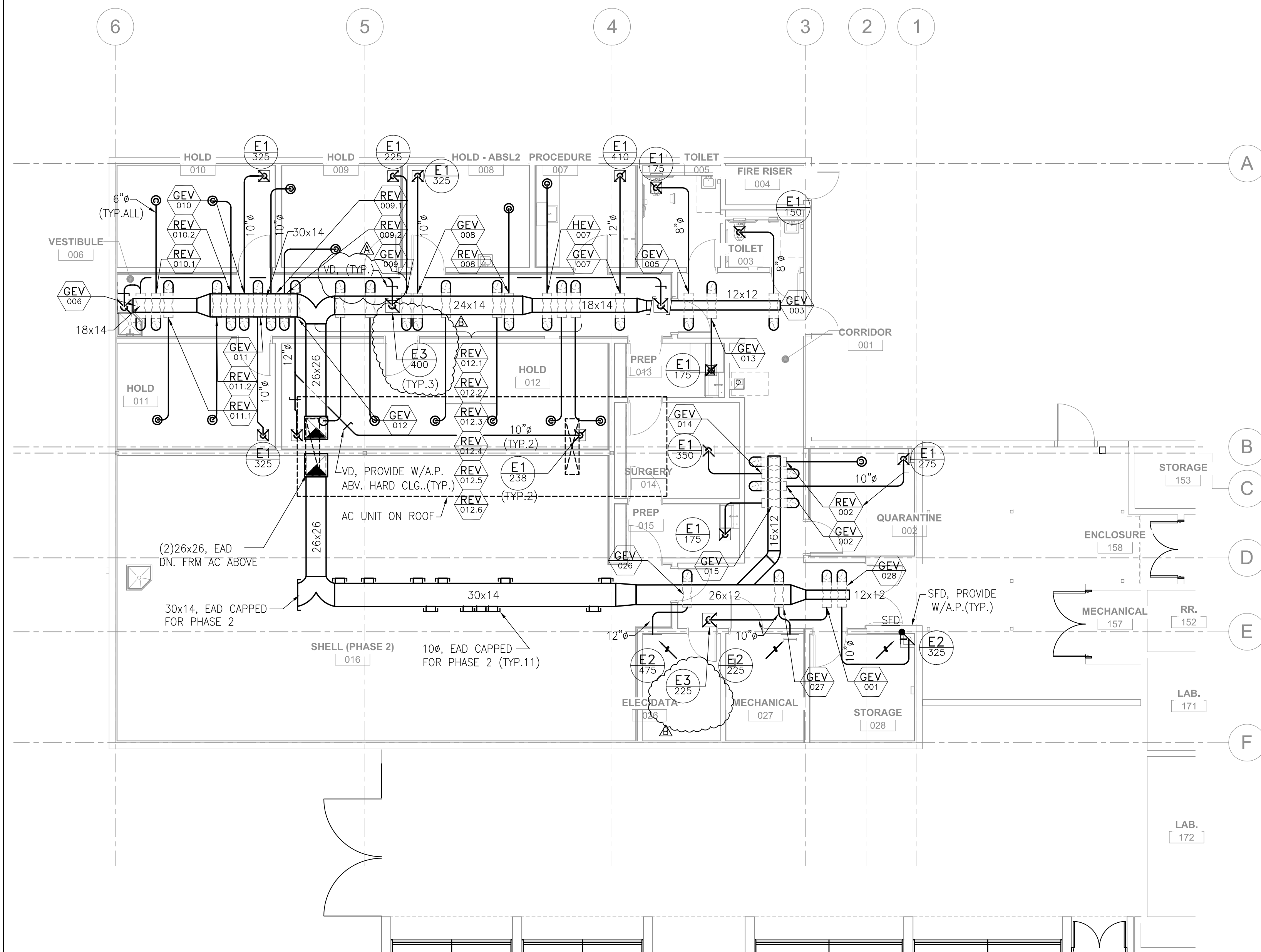
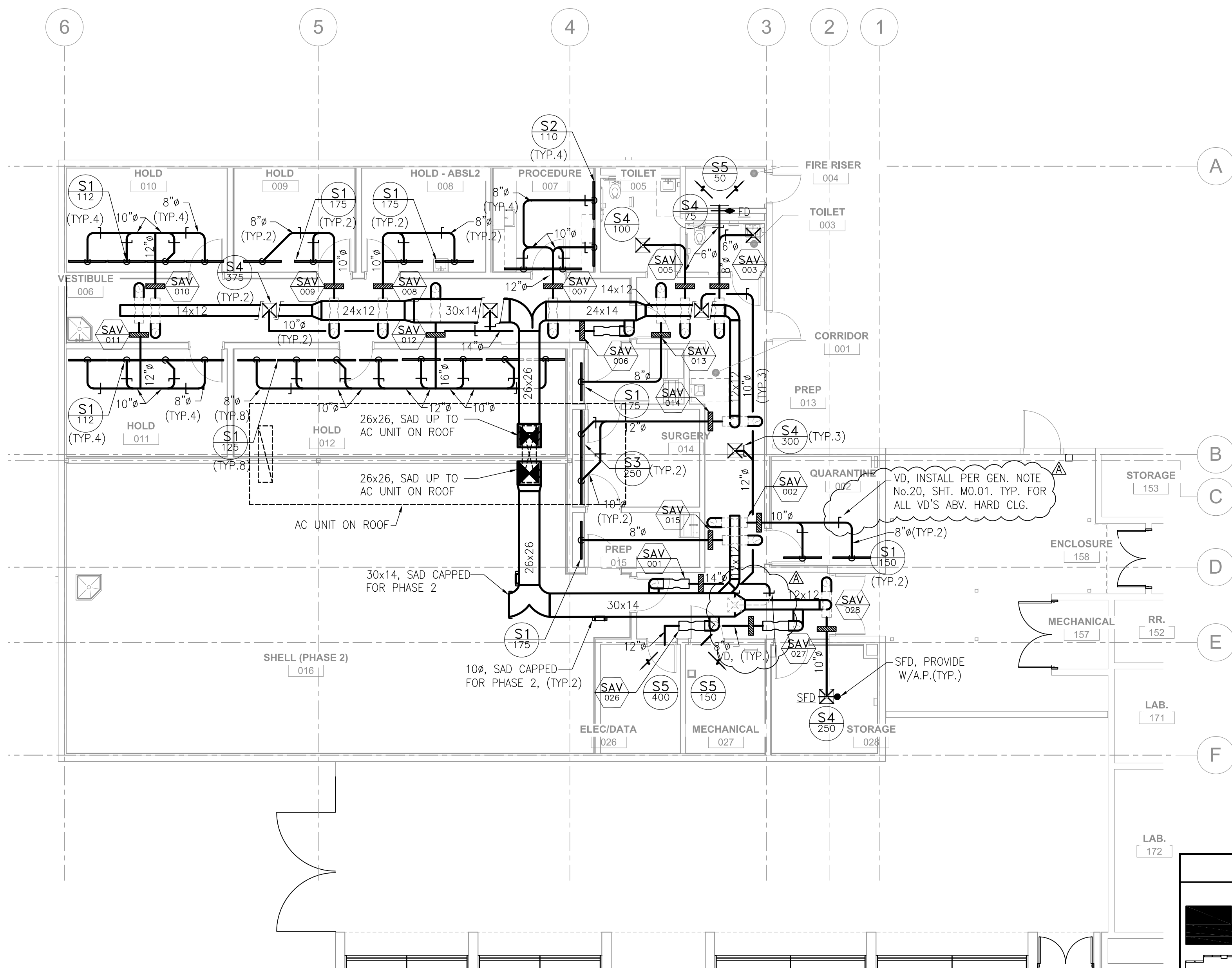
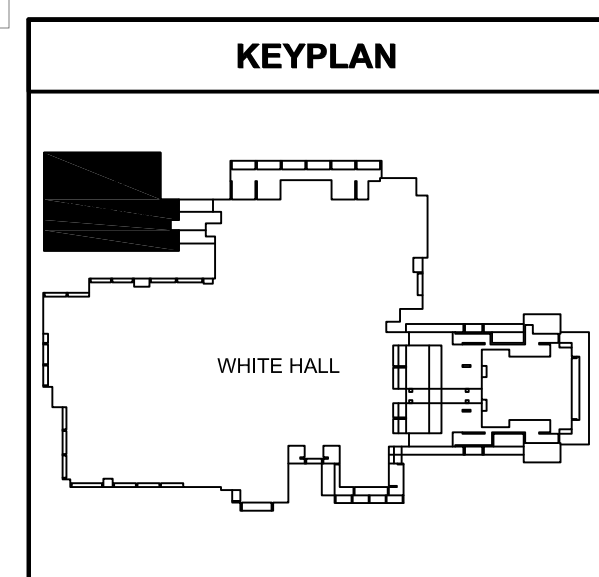
REVISIONS	
REV	DESCRIPTION
A	06/05/16 ADDENDUM A
B	06/19/16 ADDENDUM B

Sheet Title

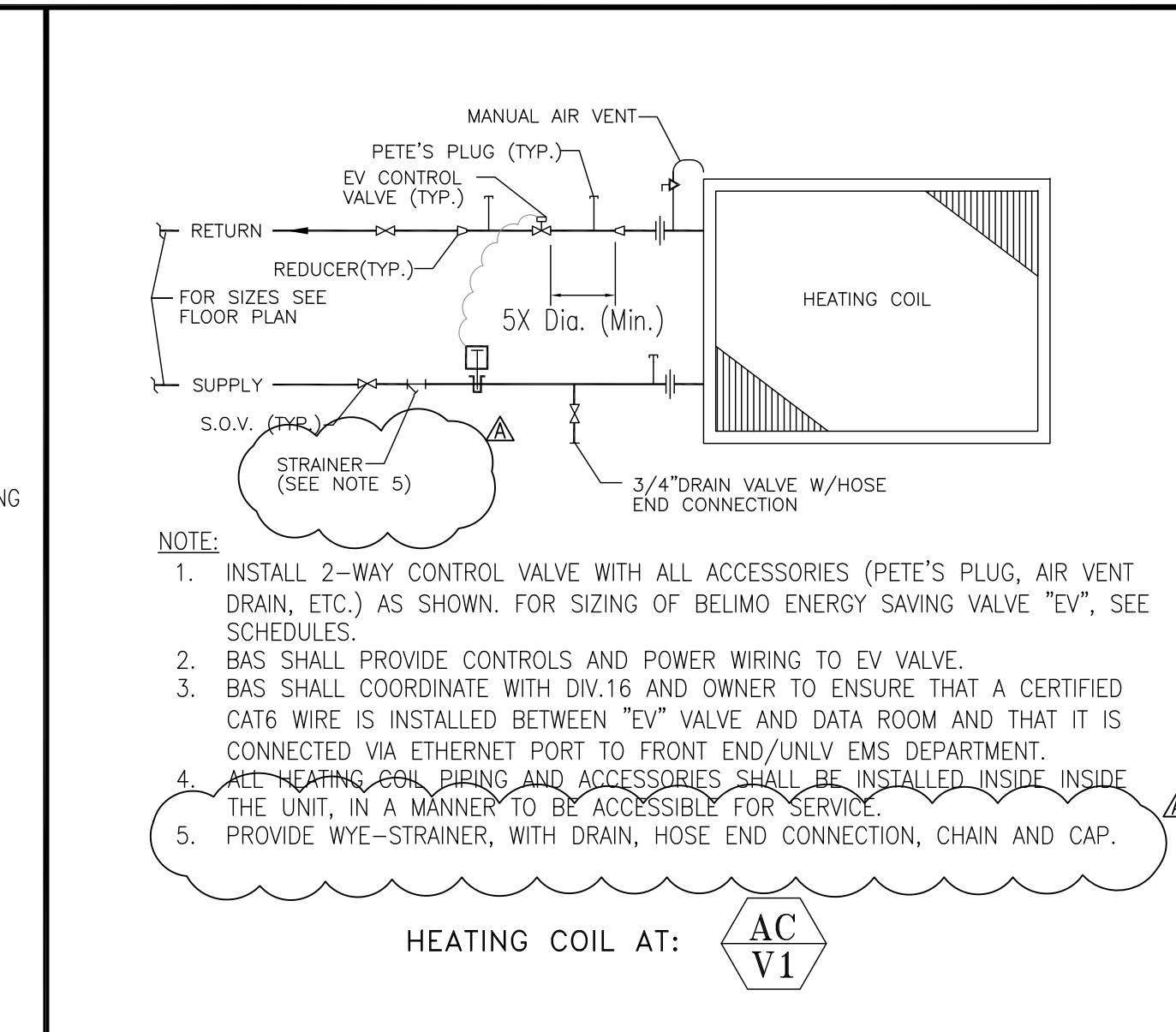
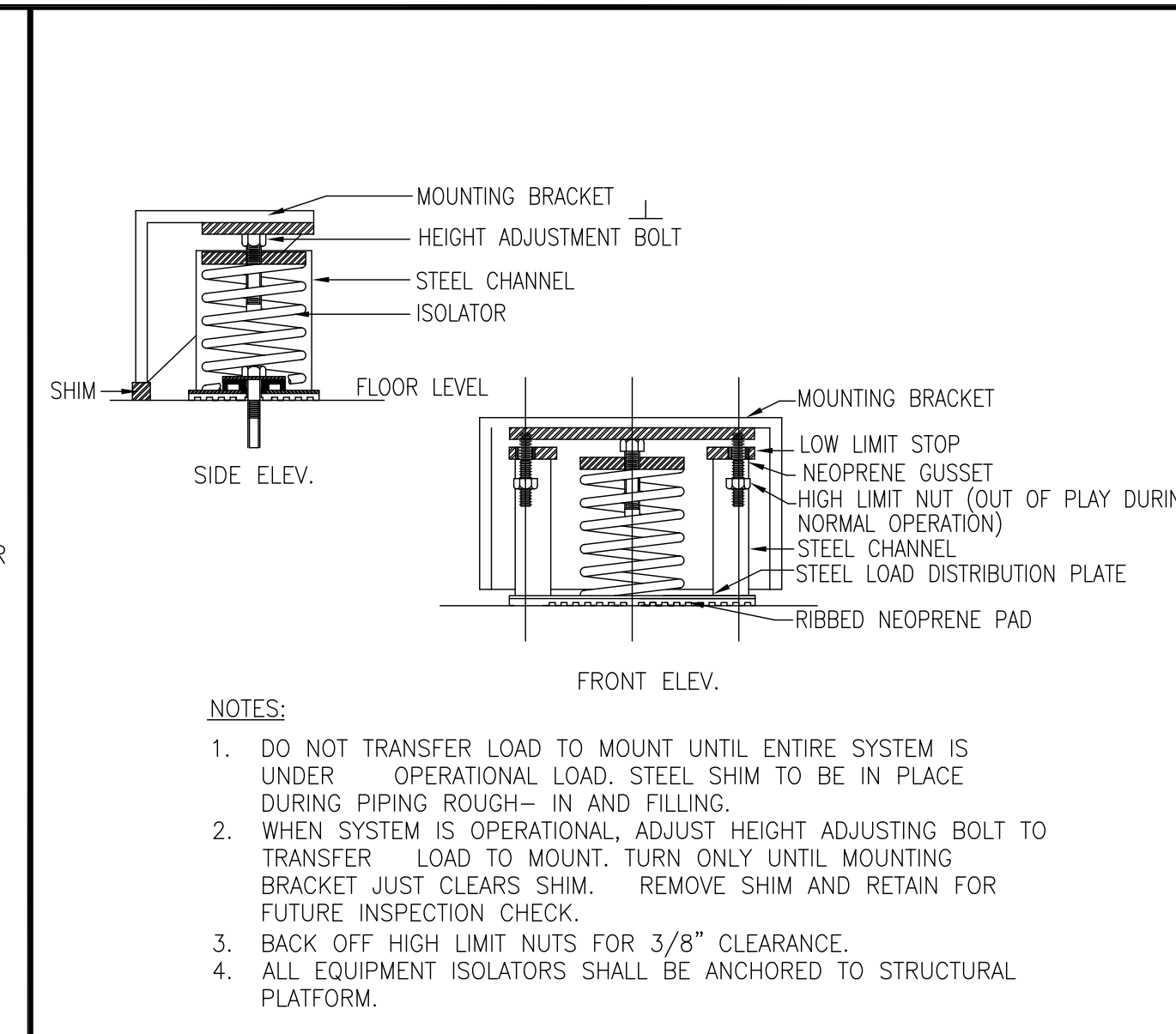
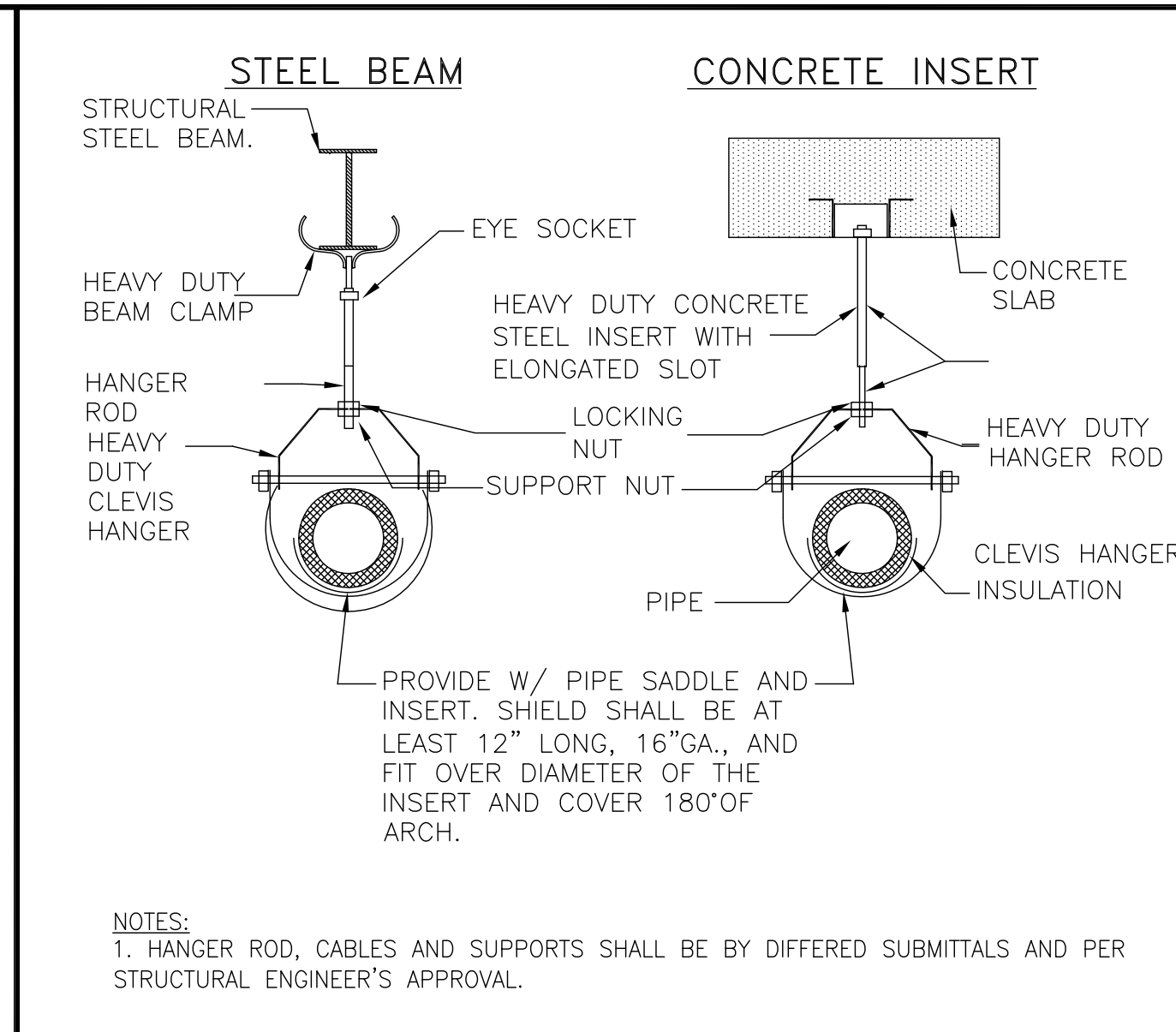
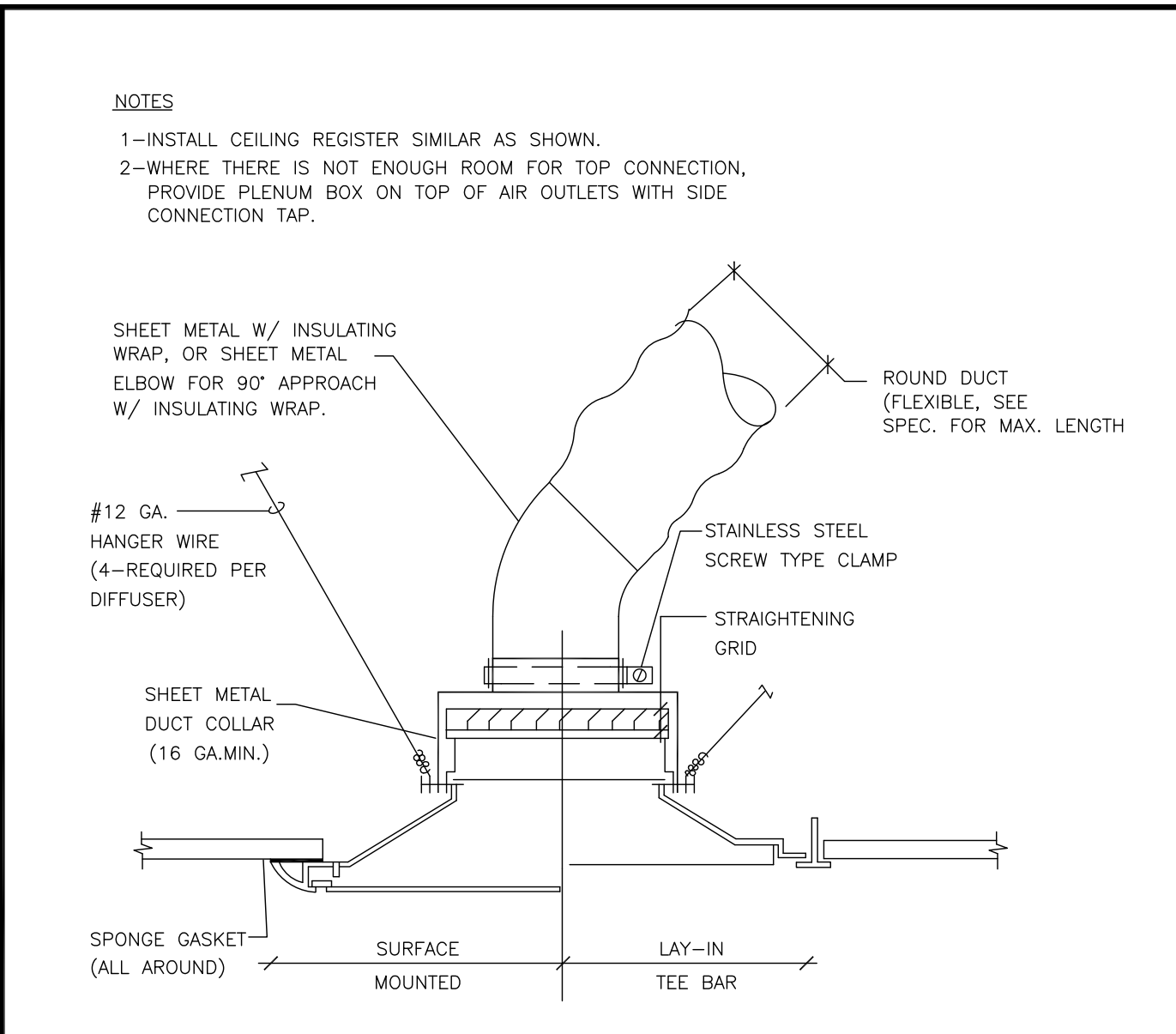
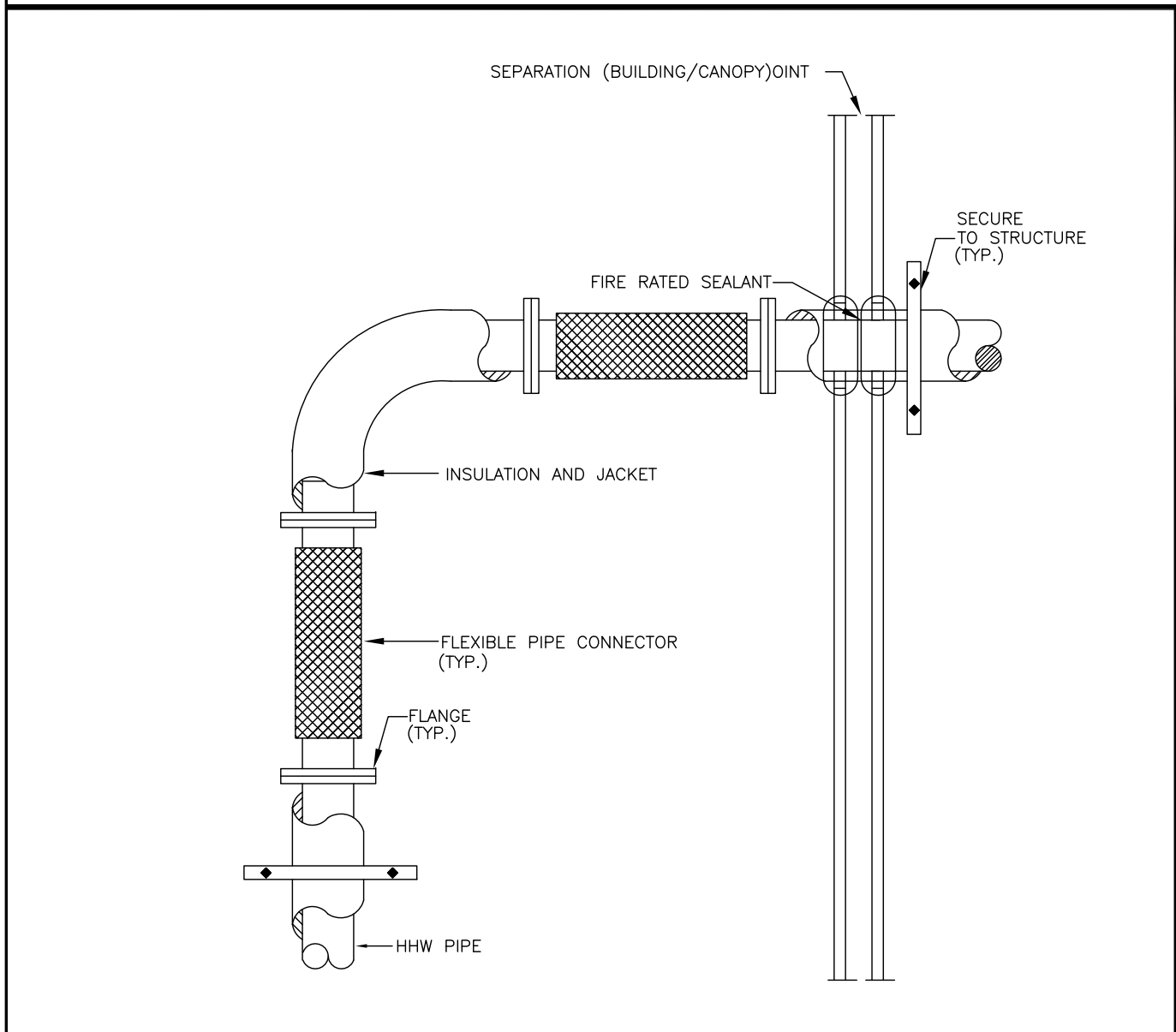
**PHASED FLOOR
PLANS**

Date: 06/17/2016

Sheet No:

M1.01**4 MECHANICAL FLOOR PLAN – PHASE 2**
M1.01 "EXHAUST AIR SYSTEM"**2 MECHANICAL FLOOR PLAN – PHASE 2**
M1.01 "SUPPLY AIR SYSTEM"**3 MECHANICAL FLOOR PLAN – PHASE 1**
M1.01 "EXHAUST AIR SYSTEM"**1 MECHANICAL FLOOR PLAN – PHASE 1**
M1.01 "SUPPLY AIR SYSTEM"

MECHANICAL DETAILS



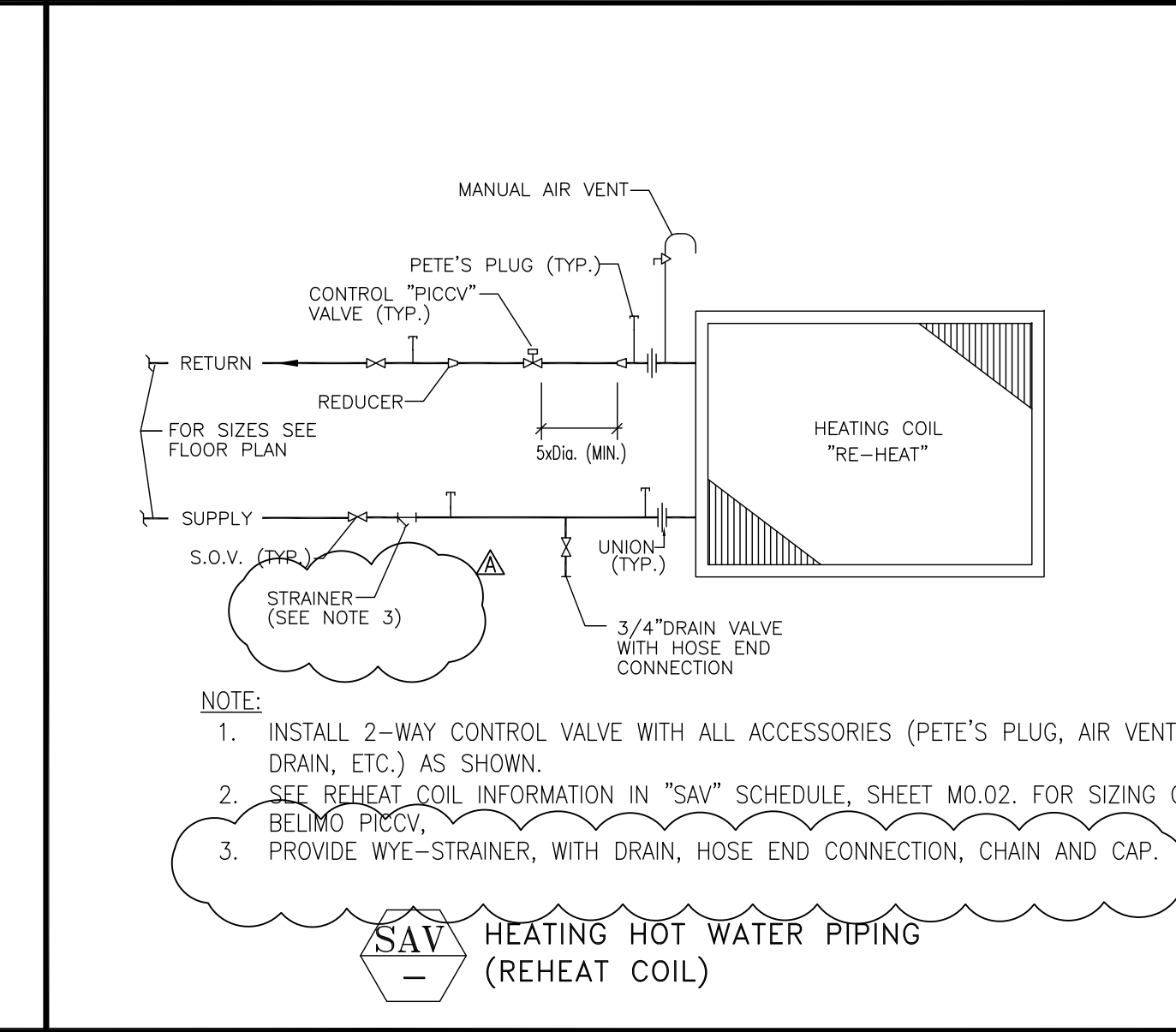
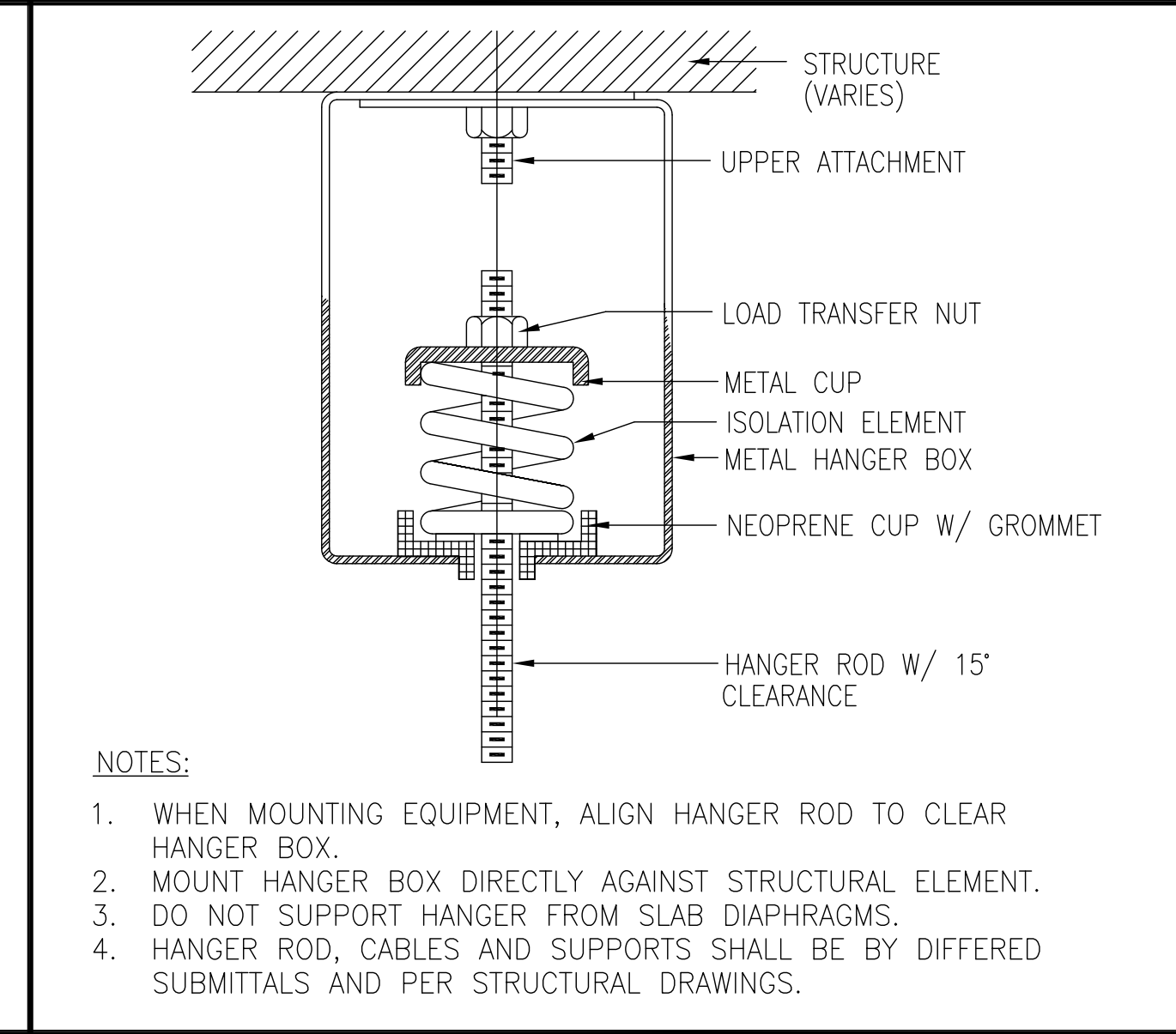
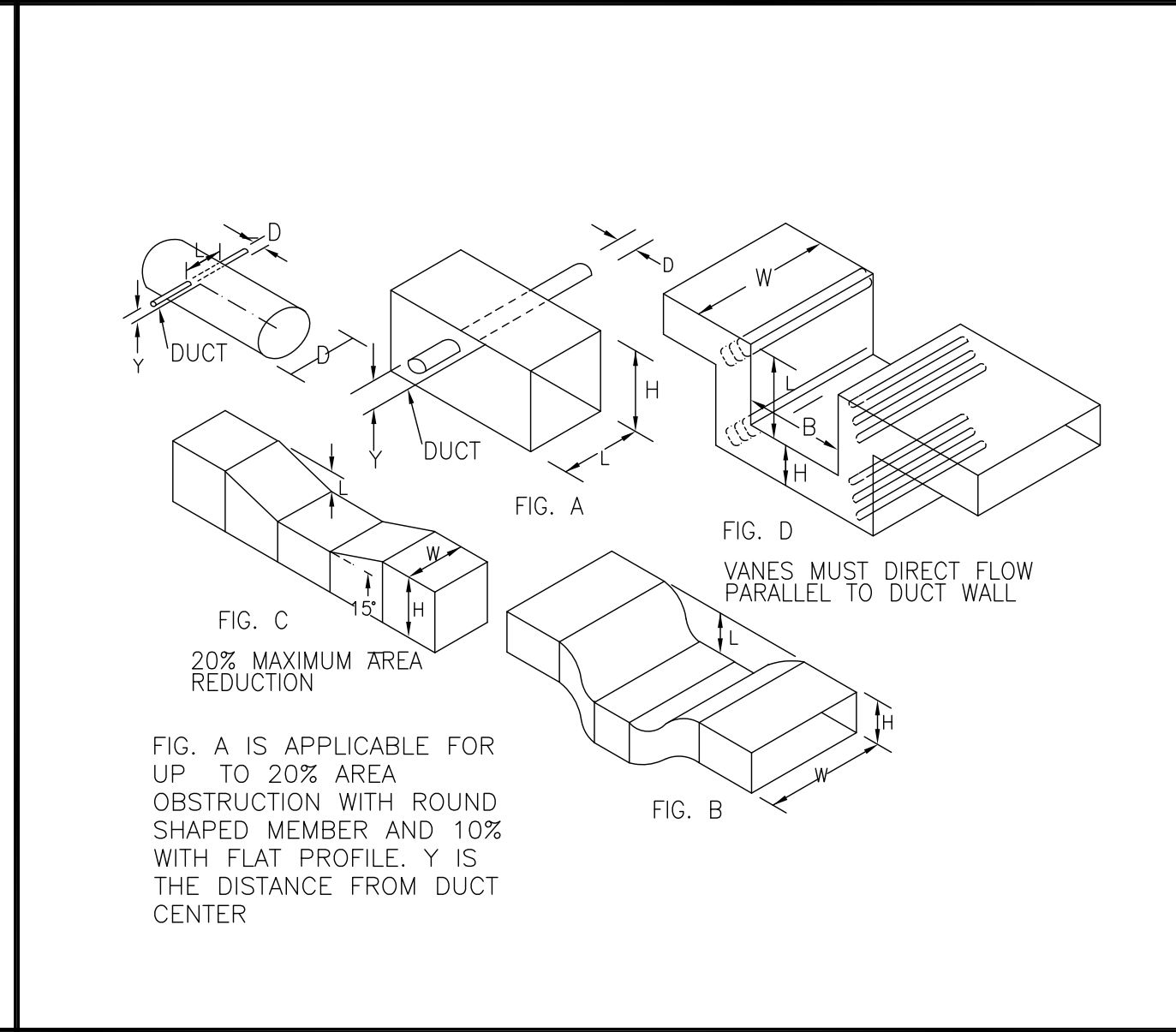
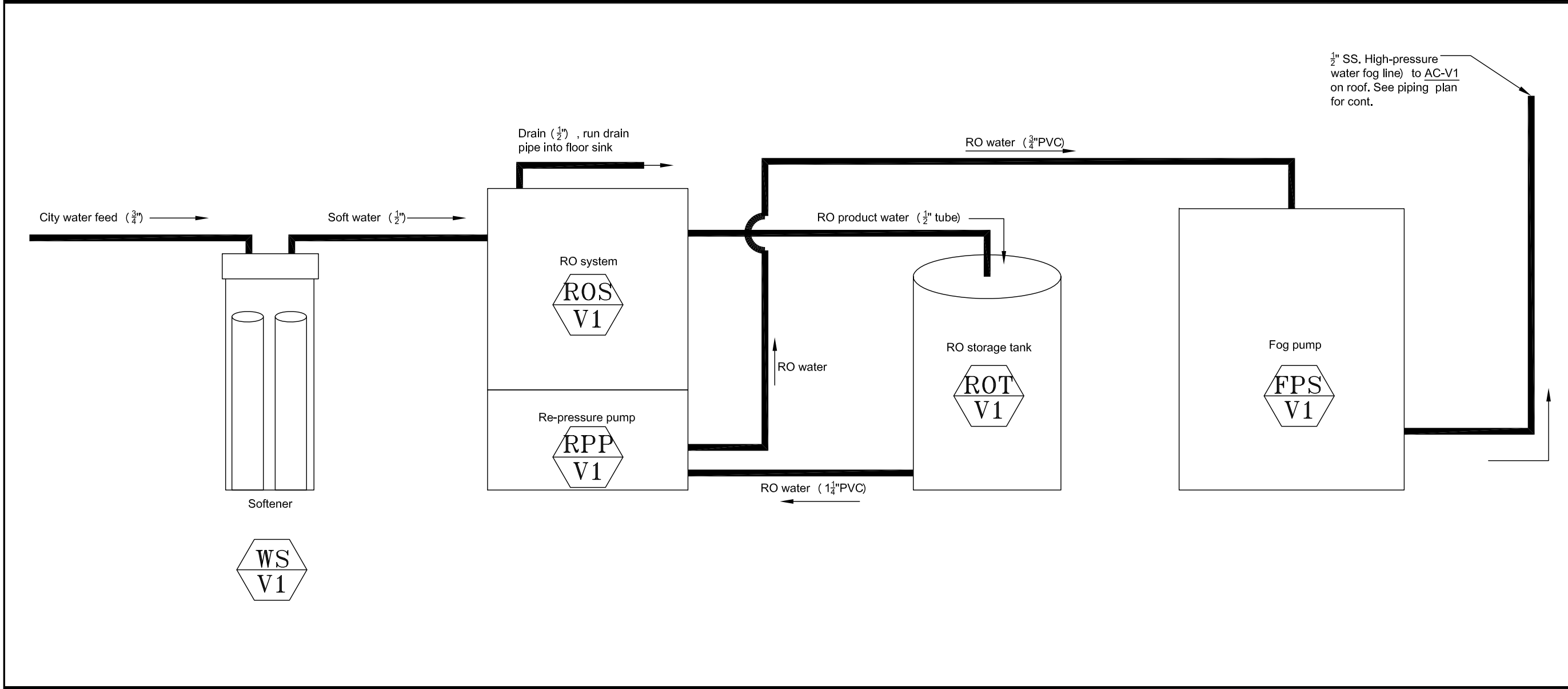
M5.01 EXPANSION JOINT DETAIL- HHWS&R N.T.S.

I5.01 CEILING DIFFUSER INSTALLATION DETAILS N.T.S.

F5.01 TYPICAL HANGER DETAILS N.T.S.

D5.01 ISOLATOR DETAIL N.T.S.

A5.01 COIL PIPING DETAIL AT AIR CONDITIONING UNIT N.T.S.

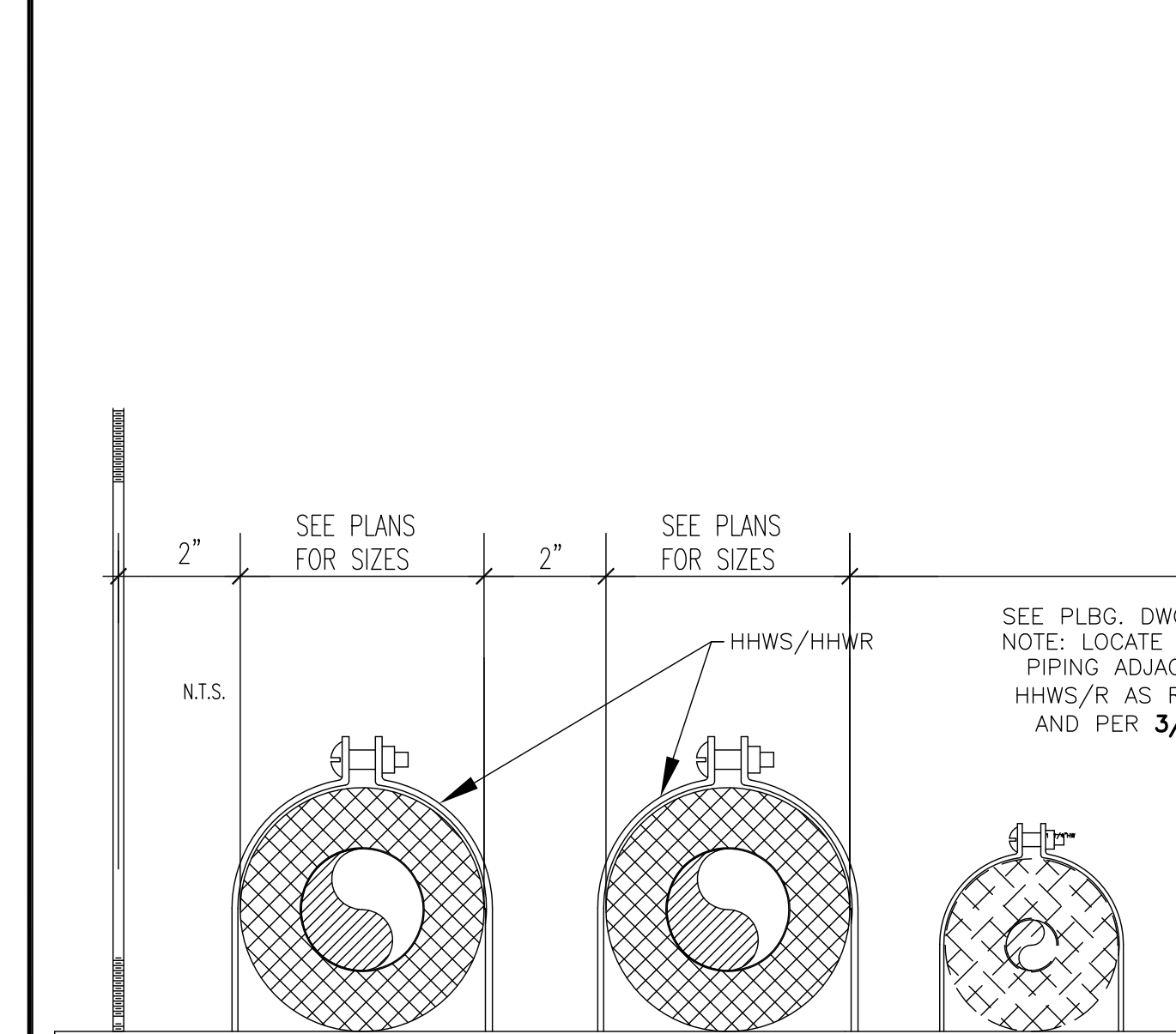
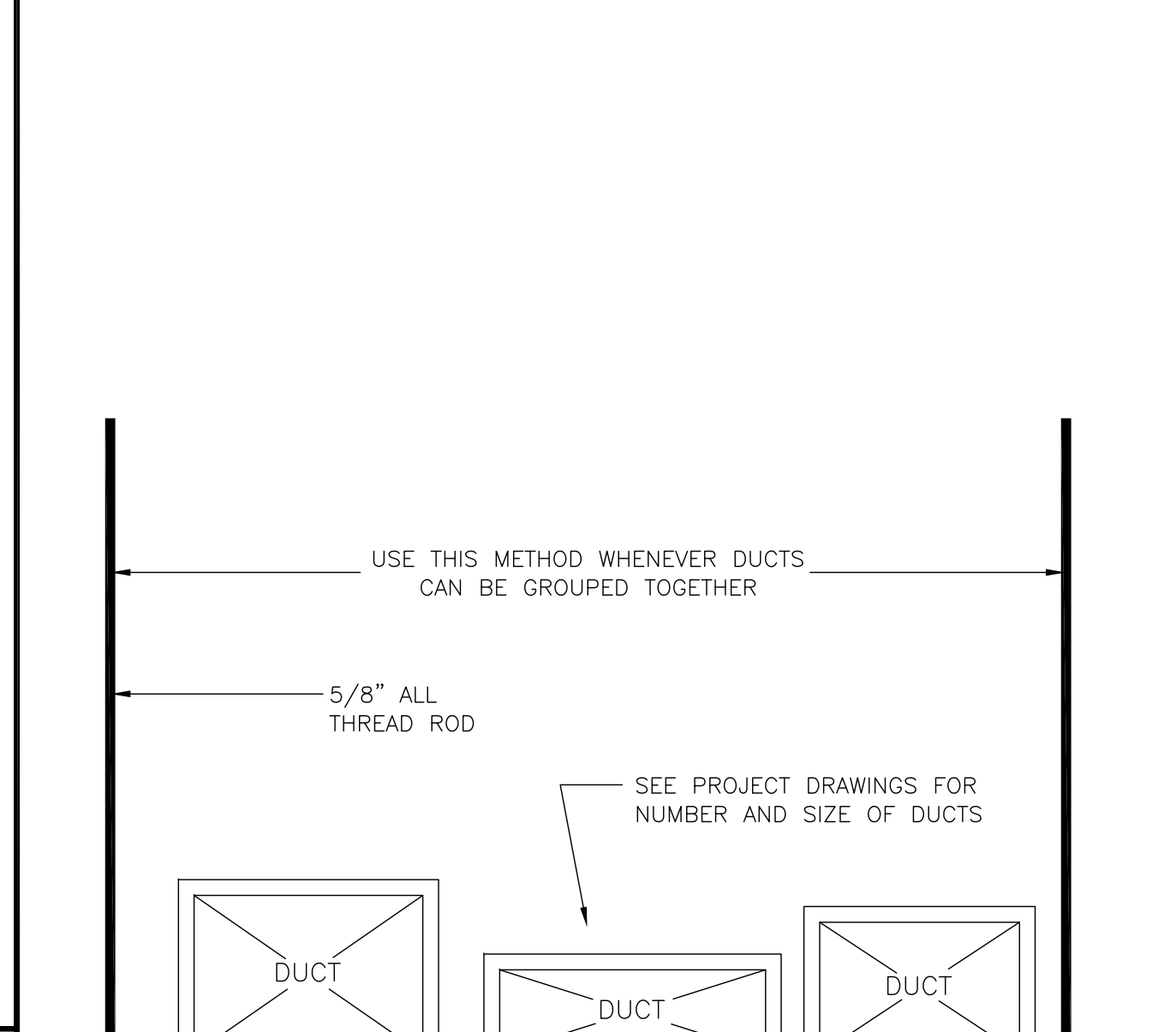
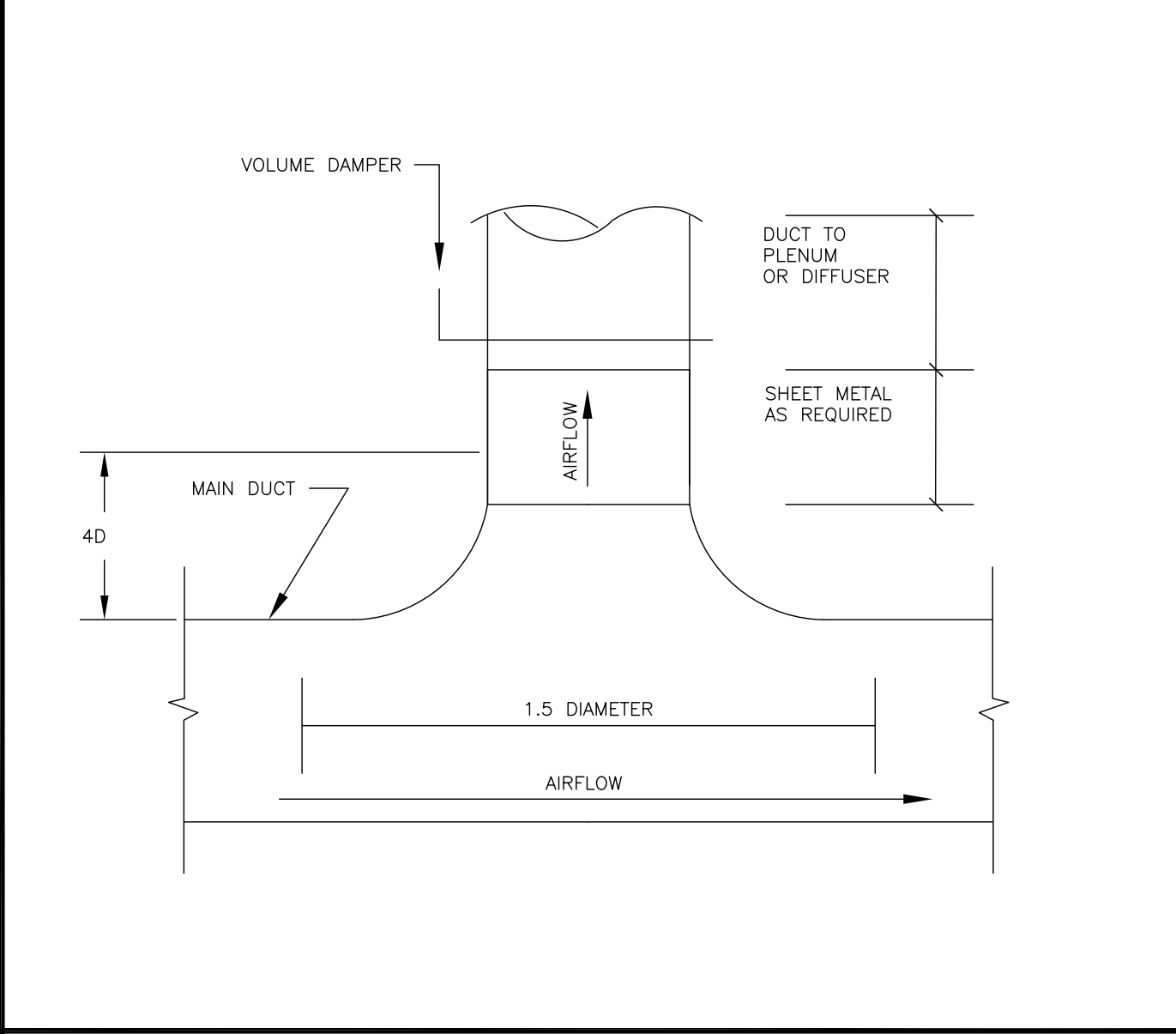
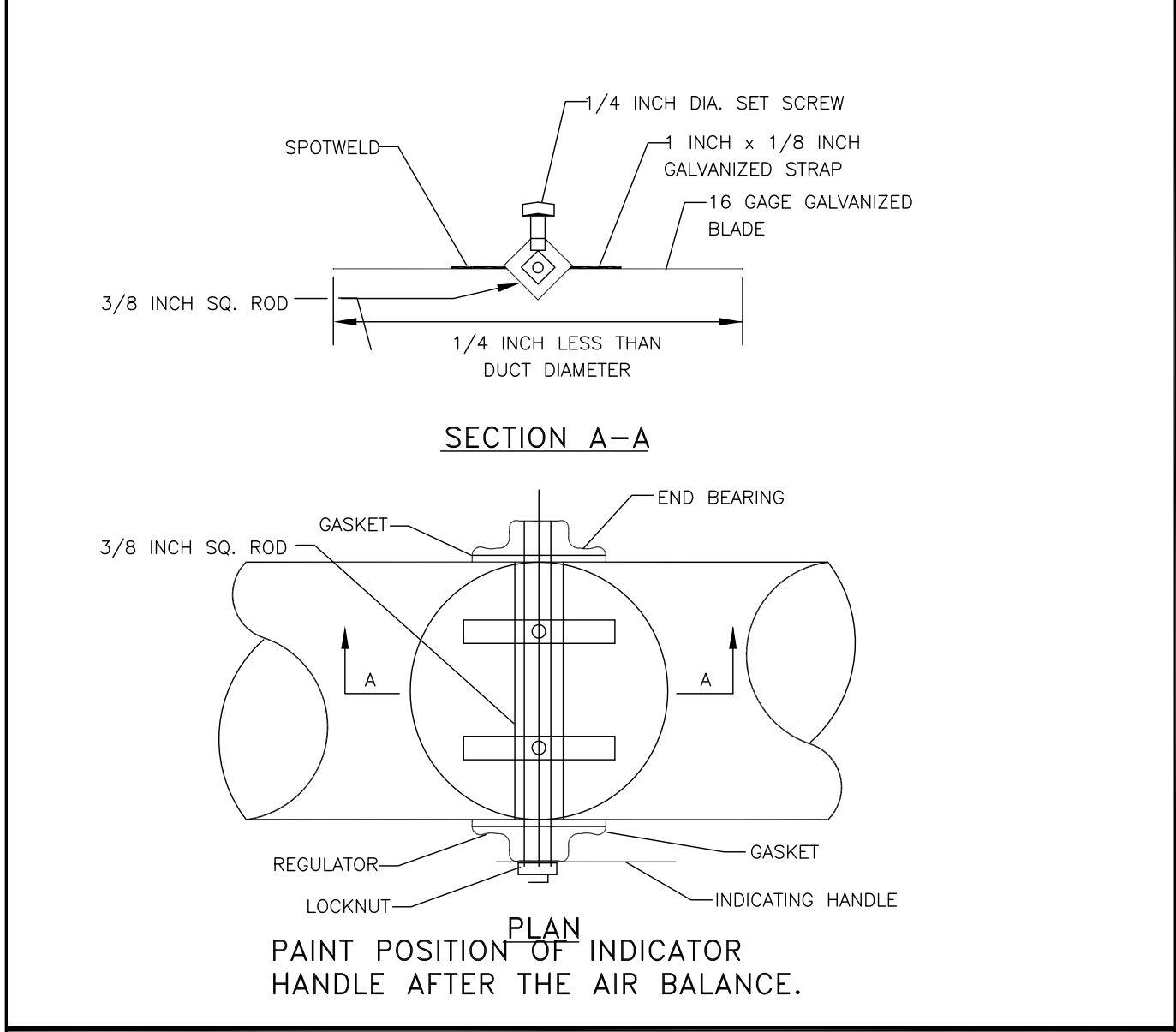


J5.01 HUMIDIFICATION SYSTEM DETAIL N.T.S.

G5.01 DUCT OBSTRUCTION DETAIL N.T.S.

E5.01 ISOLATOR TYPE HS SPRING HANGER DETAILS N.T.S.

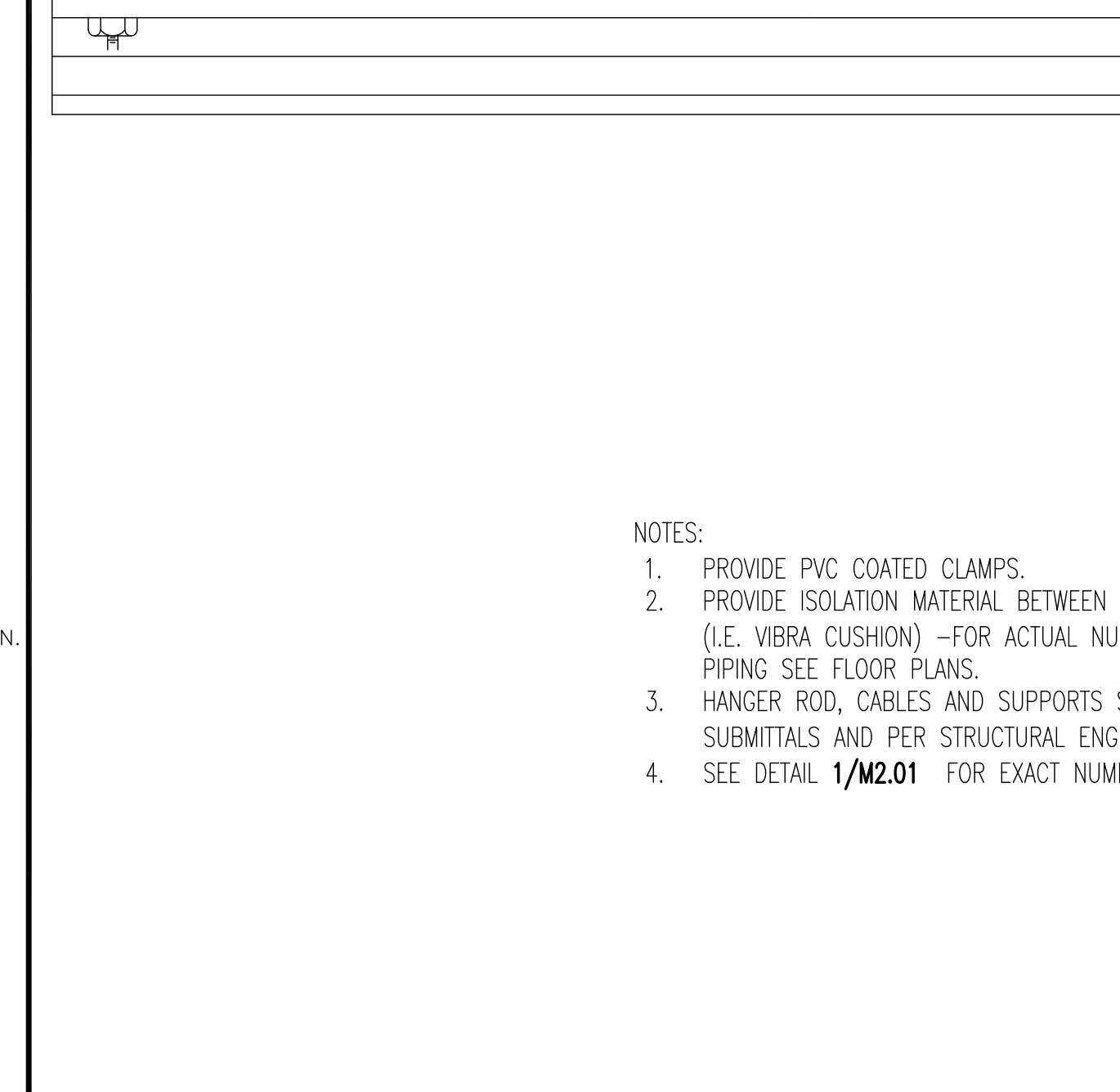
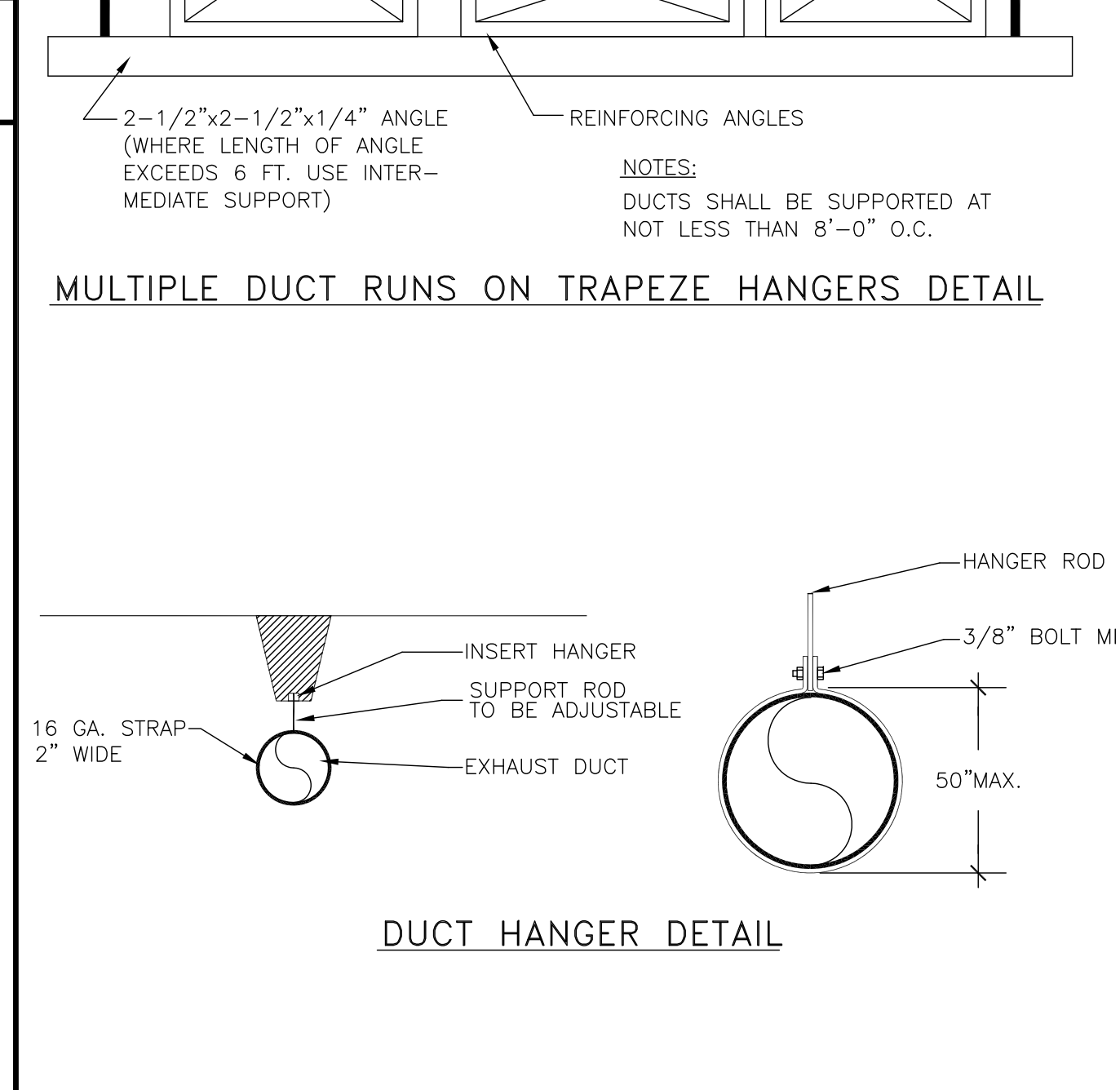
B5.01 COIL PIPING DETAIL AT REHEAT COILS (SAV) N.T.S.



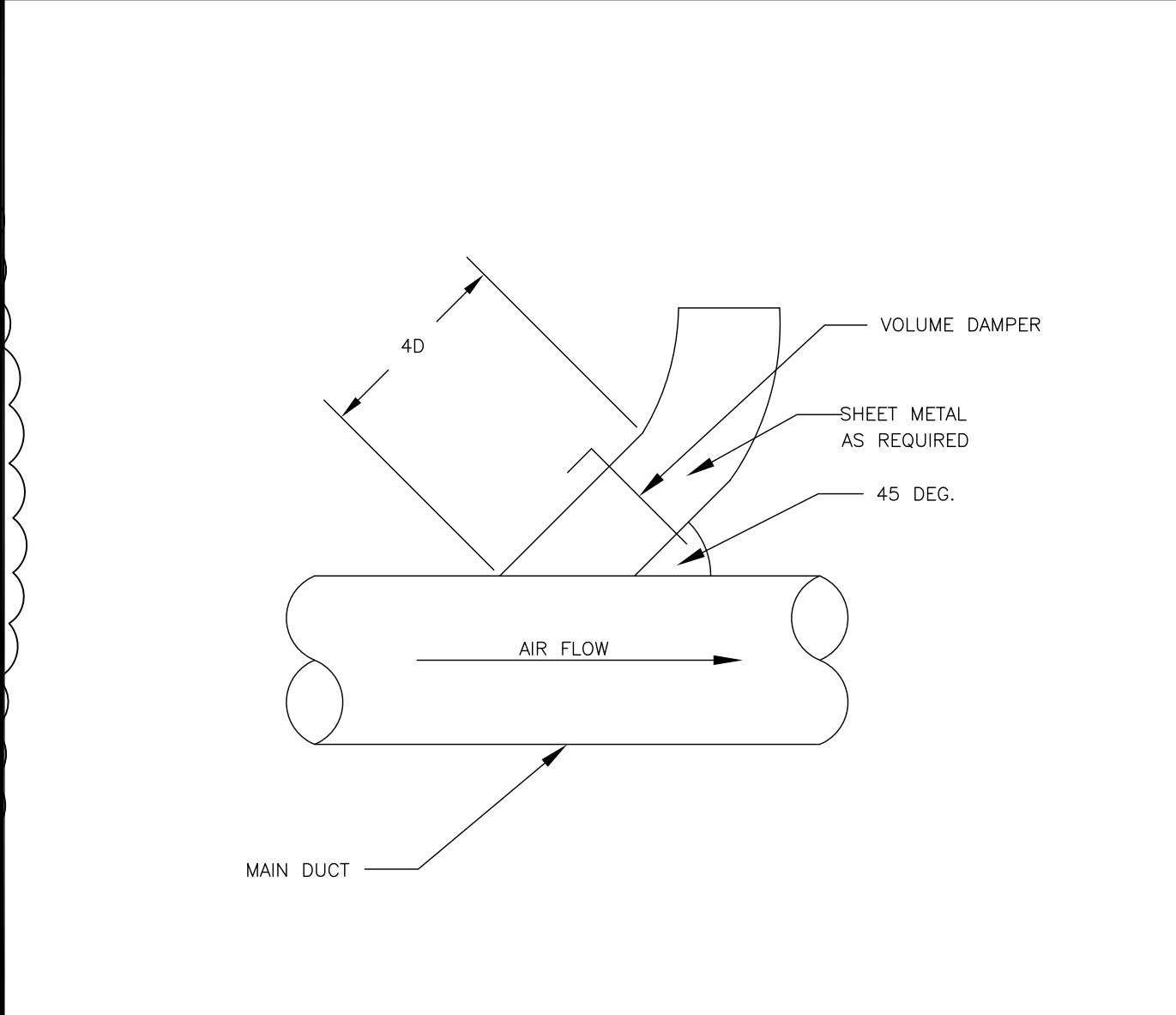
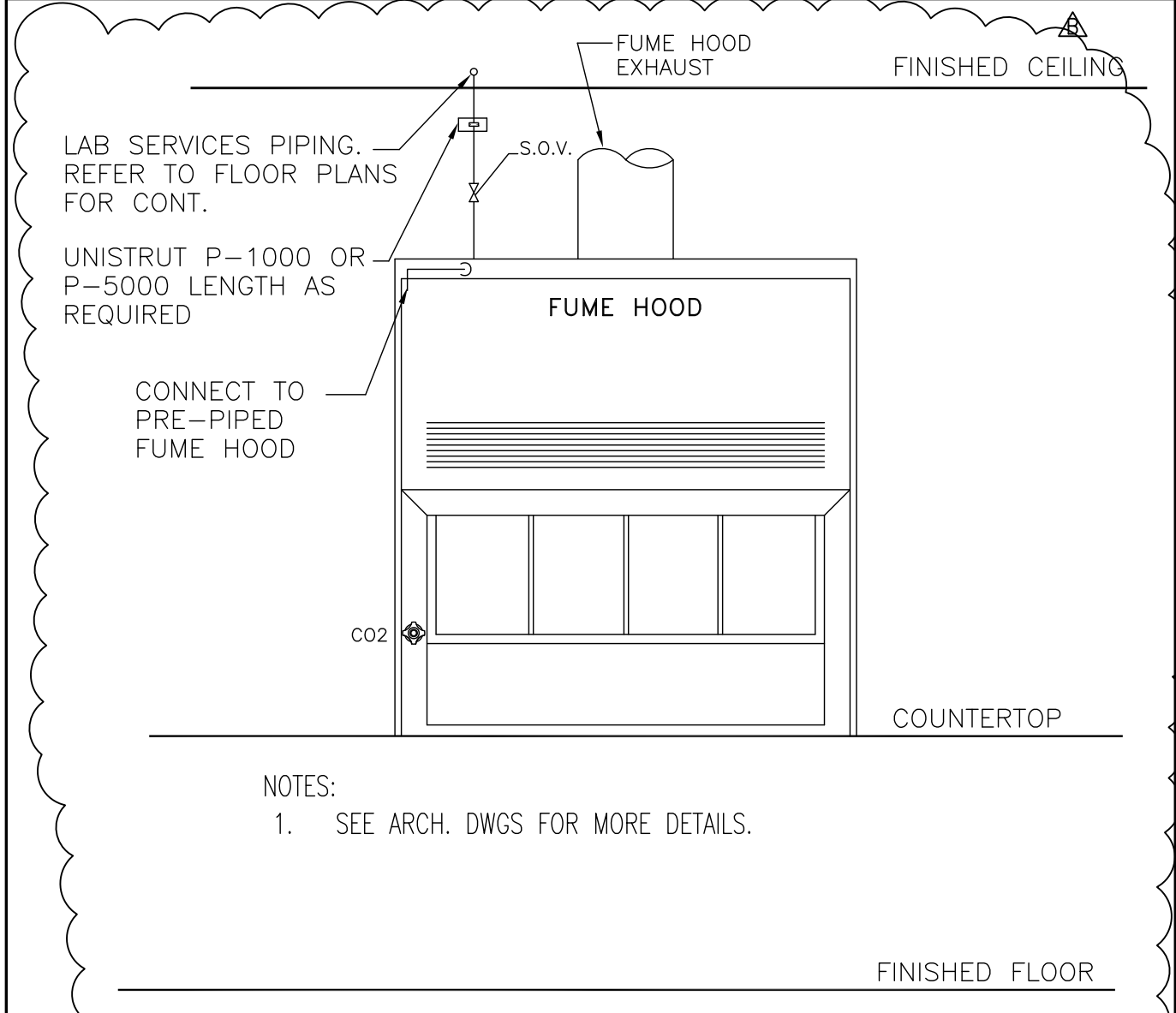
B5.01 COIL PIPING DETAIL AT REHEAT COILS (SAV) N.T.S.

N5.01 ROUND VOLUME DAMPER UP TO 14 IN. DIAMETER DETAIL N.T.S.

K5.01 ROUND SUPPLY DUCT BRANCH CONNECTION DETAIL N.T.S.



C5.01 PIPING SUPPORT DETAIL ABOVE CEILING BRANCH PIPING N.T.S.



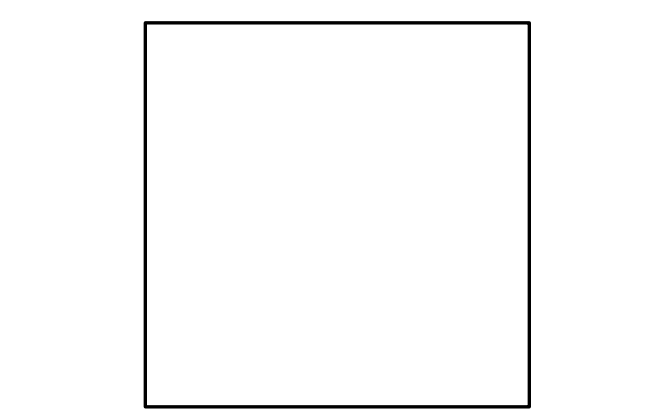
H5.01 DUCTWORK SUPPORT DETAIL N.T.S.

C5.01 PIPING SUPPORT DETAIL ABOVE CEILING BRANCH PIPING N.T.S.

C5.01 PIPING SUPPORT DETAIL ABOVE CEILING BRANCH PIPING N.T.S.

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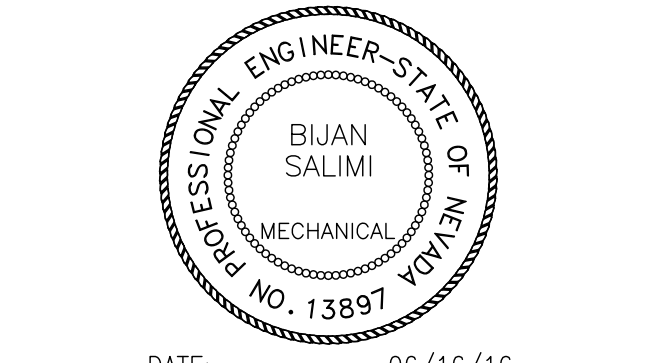
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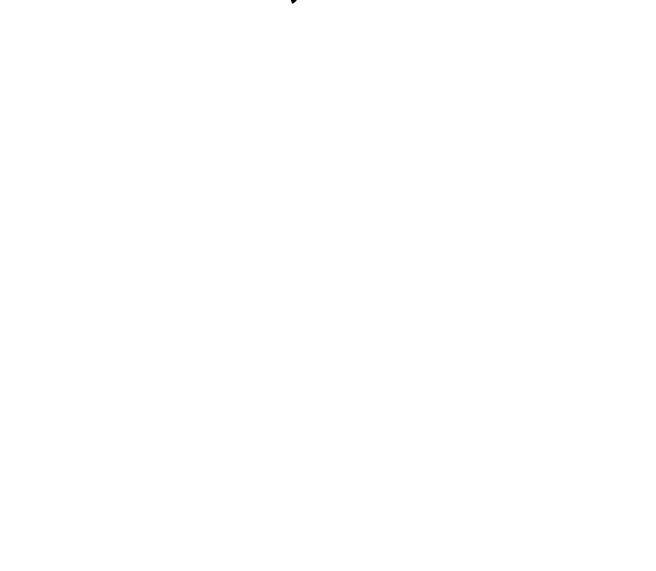
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LAS VEGAS, NV 89154

Job No: 15-061

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REV	DATE	DESCRIPTION
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

Sheet Title

DETAILS

Date: 06/17/2016




Sheet No:

M5.01

PLUMBING SCHEDULES

PLUMBING FIXTURE SCHEDULE												
MARK	DESCRIPTION	F.U.		MIN. BRANCH SIZE (INCH)						TRAP SIZE (INCH)	REMARKS	
		W	CW	W	V	CW	HW	TW	CO2	O2		
WC-1	WATER CLOSET	6	8	4	2	1½	—	—	—	—	INTEGRAL	WALL HUNG, FLUSH VALVE, 1.3 GPF. PROVIDE WITH CARRIER., ADA COMPLIANT.
L-1	LAVATORY	1	1	2	1½	¾	¾	—	—	—	1¼ x 1½	WALL HUNG., WITH ELECTRONIC FAUCET AND MIXING VALVE. ADA COMPLIANT.
S-1	SINK W/FAUCETS – HOLD "ABSL2"	2	2	1½	1½	¾	¾	—	—	—	1½" x 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.
S-2	SINK W/FAUCETS – PROCEDURE	2	1	1½	1½	¾	¾	—	—	—	1½" x 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.
S-3	SINK W/FAUCETS – PREP	2	1	1½	1½	¾	¾	—	—	—	1½" x 1½"	PROVIDE WITH ACID WASTE AND VENT PIPING.
SS-1	SERVICE SINK	3	3	3	2	¾	¾	—	—	—	3	FLOOR MOUNTED, WITH VACUUM BREAKER.
SSH/EW-1	SAFETY SHOWER/EYEWASH	2	12	2"	1½"	1½"	—	—	—	—	2" x 2"	PROVIDE W/S.O.V., SEE PLANS FOR PIPING, DIRECT EYEWASH DRAIN AND FLOOR DRAIN FOR SHOWER.
EW-1	ELECTRIC WATER COOLER	1	75	2	1½	¾	—	—	—	—	1½	WALL HUNG, ADA-COMPLIANT.
FD-1	FLOOR DRAIN	2	—	2	1½	—	—	—	—	—	2	RESTROOM. PROVIDE WITH TRAP PRIMER CONNECTION.
FD-2	FLOOR DRAIN	4	—	3	2	—	—	—	—	—	3	SAFETY SHOWERS. PROVIDE WITH TRAP PRIMER CONNECTION.
FS-1	FLOOR SINK	2	—	2	1½	—	—	—	—	—	2	MECH. RM. PROVIDE WITH HALF GRATE AND TRAP PRIMER CONNECTION.
FS-2	FLOOR SINK/RECEPTOR	4	—	4	2	—	—	—	—	—	4	FLOOR SINK WITH GRATE. PROVIDE WITH TRAP PRIMER CONNECTION.
FS-3	FLOOR SINK/RECEPTOR	3	—	3	2	—	—	—	—	—	3	FLOOR SINK WITH GRATE. EXTERIOR INSTALLATION.
HB-1	HOSE BIBB	—	5	—	—	¾	¾	—	—	—	—	RECESSED VALVE BOX WITH VACUUM BREAKER.
HB-2	HOSE BIBB, FILL FAUCET	—	12	—	—	1½"	1½"	—	—	—	—	BEHAVIOR ROOMS. RECESSED VALVE BOX WITH VACUUM BREAKER, LESS COVER. SEE DRAWINGS FOR INSTALLATION DETAILS.
T-1	TURRET "CO2" (PROC/PREP)	—	—	—	—	—	—	—	½	—	—	WALL/SIDE MOUNTED (INDEX CO2)
T-2	TURRET "O2" (PROC/PREP)	—	—	—	—	—	—	—	½	—	—	WALL/SIDE MOUNTED (INDEX O2)
TP-1	TRAP PRIMER	—	—	—	—	—	—	—	—	—	—	PPP PRIMERITE (REFER TO DWGS. FOR LOCATIONS.)
WHA-1	WATER HAMMER ARRESTOR	—	—	—	—	—	—	—	—	—	—	
RD-1	ROOF DRAIN	—	—	—	—	—	—	—	—	—	—	SEE PLANS FOR SIZE.
OD-1	OVERFLOW DRAIN	—	—	—	—	—	—	—	—	—	—	SEE PLANS FOR SIZE. WITH 2" DAM.
DN-1	DOWNSPOUT NOZZLE	—	—	—	—	—	—	—	—	—	—	SEE PLANS FOR SIZES AND LOCATIONS. INSTALL ON THE BUILDING'S EXTERIOR WALL.

UTILITY SCHEDULE										
WATER	LOCATION	FIXTURE UNITS	G.P.M.	MAKE-UP (GPM) HVAC POOL		TOTAL (G.P.M.)	MAIN SIZE (N.)	PRESSURE (P.S.I.G.)	HARDNESS (GR/GAL)	REMARKS
	VIVARIUM BLDG	117	75	—	—	75	2 1/2"	45 PSIG	—	SEE CIVIL DRAWINGS, BEYOND 5FT OF THE BUILDING.
	TOTAL	117	75	—	—	75	2 1/2"			
SEWER	LOCATION	FIXTURE UNITS	BUILDING DRAIN(INCH)		BUILDING SEWER(INCH)	ON-SITE SEWER(INCH)	PUBLIC SEWER(INCH)	REMARKS		
	VIVARIUM BLDG	80	4		SEE PLANS	SEE PLANS	—	SEE CIVIL DRAWINGS, BEYOND 5FT OF THE BUILDING.		
	TOTAL	80	4		—					
GAS (CFH) INPUT CAPACITY	GAS METER LOCATION	SPACE HEATING (BOILER)	HVAC UNITS ROOFTOP	WATER HEATING	KILN/ETC.	FOOD SERVICE	SCIENCE ROOMS	TOTAL (CFH) (SEE NOTES)		
	NO GAS	—	—	ELEC.	—	—	—	—		
	NATURAL GAS IS NOT USED IN THIS PROJECT.									
STORM DRAINAGE	STORM DRAINAGE SYSTEM FOR ROOF IS DESIGNED BASED ON MAXIMUM RAINFALL OF 2 INCHES PER HOUR.									

EQUIPMENT SCHEDULE					
SYMBOL	DESCRIPTION	SERVICE	LOCATION	MANUFACTURER & MODEL	REMARKS
 1	WATER HEATER ELECTRIC	DOMESTIC	SEE PLANS	A.O.SMITH DURA-POWER MODEL: DSE-80	COMMERCIAL ELECTRIC WATER HEATER, NON SIMULTANEOUS DUAL ELEMENTS, 80 GALLON CAPACITY, 28" DIA. x 52½" HEIGHT, 900 LBS WEIGHT, 240W, 208 VOLTS, 3 PHASE, 66.6 FLA. PROVIDE WITH TEMPERATURE GAGE. SET AT 125F HOT WATER SUPPLY TEMPERATURE.
 1	CIRCULATING PUMP	DOMESTIC	SEE PLANS	B&G MODEL: "1AA"	CIRCULATING PUMP, 10GPM, 25FT HEAD, ¾HP MOTOR, 115-230 VOLTS. SUPPORT PUMP INDEPENDENTLY PROVIDE AND INSTALL AQUASTAT.
 1	EXPANSION TANK	DOMESTIC WATER HEATER	SEE PLANS	AMTROL MODEL: ST-42V-C	EXPANSION TANK W/ POLYPROPYLENE LINER, BUTYL RUBBER DIAPHRAGM, STAINLESS-STEEL CONNECTION. FOR USE WITH POTABLE WATER SYSTEM W/ MAX. OPERATING TEMPERATURE OF 200F AND PRESSURE OF 125 PSIG. 17.5 GALLON TANK -¾" CONNECTION, 16"DIA.X24.5" HEIGHT, 200 LBS. WEIGHT.

PLUMBING FIXTURE SPECIFICATION	
(SEE ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF ALL PLUMBING FIXTURES.)	
DESCRIPTION	
WATER CLOSET (MARK WC-1): ZURN NO. "Z5615-BWL" ECO VANTAGE, WALL HUNG, ELONGATED BOWL, WHITE VITREOUS CHINA. TOILET WITH SOLID RING YK SUPPORT BRACKET, 1½"TOP SPUD BOWL, ZURN ZTR6200EV, 1.28 G.P.F. SENSOR OPERATED FLUSH VALVE AND Z59555S-EL OPEN FRONT, WHITE SEAT. ADA COMPLIANT.	
LAVATORY (MARK L-1): ZURN NO. "Z5351" 19" x 17", WALL HUNG, WHITE VITREOUS CHINA, WITH WALL SUPPORT AND HANGER PLATE. ZURN AQUA-FIT BATTERY POWERED FAUCET #Z6950-XL-S. PROVIDE AND INSTALL "ZW3870XLT" AQUA-GARD THERMOSTATIC MIXING VALVE, WITH Z8800 ½" I.P.S. FLEXIBLE SUPPLIES WITH LOOSE KEY STOPS, ZURN Z8743-PC STRAINER WITH 1½"TAILPIECE."ADA COMPLIANT".	
SINK (MARK S-1): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.	
SINK (MARK S-2): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.	
SINK (MARK S-3): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.	
SERVICE SINK (MARK SS-1): UNDERMOUNT GROUP "B-33213", 16GAUGE, CORNER FLOOR MOP SINK, 30"SQUARE TYPE, 8" HEIGHT WITH STAINLESS STEEL STRAINER, 3" I.P.S. DRAIN, CHICAGO "540-LD-887S-WXFCP" FAUCET WITH VACUUM BREAKER SPOUT, ¾" HOSE THREAD OUTLET, PAIL HOOK WITH WALL SUPPORT, WXF STRAIGHT SHANK WITH FLANGE, 8" CENTERS, #369 HANDLES.	
SAFETY SHOWER/EYEWASH (MARK SSH/EW-1): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS. 1"WATER CONNECTION AND 2" FOR EYEWASH DRAIN.	
ELECTRIC WATER COOLER (MARK EW-1): ELKAY NO. "LZSBL", WALL HUNG, STAINLESS STEEL FINISH, FRONT PUSH BUTTON, SINGLE LEVEL, 86PG, 115V,370WATTS, ADA COMPLIANT.	
FLOOR DRAIN (MARK FD-1): ZURN FD2321-NH2 CAST IRON DRAIN, FLASHING COLLAR WITH 5" NICKEL-BRONZE WITH TRAP PRIMER CONNECTIONS.	
FLOOR DRAIN (MARK FD-2): ZURN FD2330-PV3-P-Y HEAVY DUTY, ADJUSTABLE, PVC BODY, WITH STEEL THREADED INSERTS AND 8" HEAVY DUTY FULL GRATE, AND SEDIMENT BUCKET. PROVIDE WITH TRAP PRIMER CONNECTIONS.	
FLOOR SINK (MARK FS-1): JR SMITH FIG. NO. 3100Y 2"NH. CAST IRON DRAIN 6"DEEP WITH NICKEL BRONZE RIM WITH HALF GRATE, WITH TRAP PRIMER CONNECTION AND DOME STRAINER.	
FLOOR RECEPTOR (MARK FS-2): JOSAM 49420 SERIES, 16"SQUAREX12"DEEP, CAST IRON BODY RECEPTOR, WITH ACID RESISTING INTERIOR, HEAVY DUTY 1" SQUARE GRATE, AND INTERIOR BOTTOM DOME STRAINER. PROVIDE WITH TRAP PRIMER CONNECTIONS. 4"PIPE SIZE (49424).	
FLOOR RECEPTOR (MARK FS-3): JOSAM 49420 SERIES, 16"SQUAREX12"DEEP, CAST IRON BODY RECEPTOR, WITH ACID RESISTING INTERIOR, HEAVY DUTY 1" SQUARE GRATE FOR EXTERIOR INSTALLATION. PROVIDE WITH INTERIOR BOTTOM DOME STRAINER. 3"PIPE SIZE (49423).	
HOSE BIBB (MARK HB-1): ACORN SS RECESSED DUAL TEMP. (COLD AND HOT) VALVE BOX, NO. "8156", ¾"HOSE CONNECTIONS, WITH VACUUM BREAKERS, AND WHEEL HANDLES.	
HOSE BIBB (MARK HB-2): ACORN SS RECESSED HOT AND COLD VALVE BOX, NO. "8156", LESS COVER, ¾"HOSE CONNECTION, WITH VACUUM BREAKER, AND WHEEL HANDLE.	
TURRET "CO2" (MARK T-1): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.	
TURRET "O2" (MARK T-2): "BY OTHERS", SEE DIV. 11 SPECIFICATIONS.	
TRAP PRIMER (MARK TP-1): PPP PRIMERITE TRAP PRIMER, "PR-500". REFER TO DRAWINGS FOR LOCATIONS.	
WATER HAMMER ARRESTOR (MARK WHA-1): JAY R. SMITH #5005-¾", "A" FOR 1-11 FIXTURE UNITS/ JAY R. SMITH #5010-1", "B" FOR 12-32 FIXTURE UNITS/JAY R. SMITH #5020-1", "C" FOR 33-60 FIXTURE UNITS.	
ROOF DRAIN (MARK RD-1): J.R. SMITH NO. 1010-Y-C DRAIN WITH DUCO CAST IRON BODY, CAST ALUMINUM DOME AND UNDER DECK CLAMP.	
OVERFLOW DRAIN (MARK OD-1): J.R. SMITH NO. 1080-Y-C DRAIN WITH DUCO CAST IRON BODY, CAST ALUMINUM DOME AND UNDER DECK CLAMP, FOR WOOD DECKS USE SUMP RECEIVER.	
DOWNSPOUT NOZZLE (MARK DN-1): ZURN NO. Z199, ALL NICKEL BRONZE BODY, WITH WALL FLANGE AND OUTLET NOZZLE.	

POTABLE WATER PIPE SIZING CALCULATIONS

COLD/HOT WATER PIPE SIZING TABLE

(A) PRESSURE AVAILABLE: MAXIMUM 45 PSIG, AT BUILDING.

(B) WATER HARDNESS: NA

(C) TOTAL FIXTURE UNITS: (FLUSH VALVE)

(D) WATER DEMAND:

1. DOMESTIC

2. IRRIGATION NIGHT USE ONLY

3. A/C EQUIPMENT (RO)

4. MISC. MAKE UP/ EQUIPMENT

5. MISC.

117 F.U.

73 GPM

N/A GPM

2 GPM

N/A GPM

— GPM

TOTAL

75 GPM

PRESSURE AVAILABLE: (PSIG, MIN. CALCULATED) +: 35 PSIG

RESIDUAL PRESSURE (PSI) —: 25 PSI

LOSS DUE TO ELEVATION (PSI) —: 3 PSI

LOSS THRU METER (PSI) —: N/A PSI

LOSS THRU PRV (PSI) —: N/A PSI

LOSS THRU BACKFLOW PREVENTER (PSI) —: N/A PSI

PRESSURE AVAILABLE FOR FRICTION LOSS (PSI) : 7 PSI

FRICTION LOSS PER 100FT. 7 *100 / 200 = 3.5 PSI PER 100 FT

PIPE SIZES BASED ON "L" COPPER, @ 3.0 PSI/100 FT., 10 FPS MAXIMUM

FIXTURE UNITS

FT.

EV.

GPM

¾"

=

5

—

4.5

1"

=

13

—

10

1½"

=

25

—

17.5

FIXTURE UNITS

FT.

EV.

GPM

1½"

=

47

10

28

2"

=

171

74

60

2½"

=

401

263

105

EQUIPMENT "SUPPLIED BY OTHERS" SCHEDULE					
(FOR REFERENCE ONLY. SEE ARCH. DWGS AND DIV. 11 SPEC FOR EXACT INFORMATION)					
MARK	DESCRIPTION	CO2	O2	EXH. (CFM)	REMARKS
1	FUME HOOD	¾"	—	SEE NOTE 3.	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING. 3. SEE MECH. DWGS. FOR EXHAUST DUCTWORK.
2	CO2 CYLINDERS AND MANIFOLD	¾"	—	—	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING.
3	OXYGEN CYLINDERS AND MANIFOLD	—	¾"	—	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING.
S-1	SINK-HOLD "ABSL2"	—	—	—	1. SEE DIV. 11 SPEC. "SK-1" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
S-2	SINK-PROCEDURE	—	—	—	1. SEE DIV. 11 SPEC. "SK-2" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
S-3	SINK-PREP	—	—	—	1. SEE DIV. 11 SPEC. "SK-3" 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
SSH/EW-1	SAFETY SHOWER/ EYEWASH	—	—	—	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING. 3. SEE SCHEDULE FOR ROUGH-INS.
T-1	PROCEDURE/PREP	¾"	—	—	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING AND LOCATION(S). 3. SEE SCHEDULE FOR ROUGH-INS.
T-2	PROCEDURE/PREP	—	1"	—	1. SEE DIV. 11 SPEC. 2. SEE PLBG. PLAN FOR PIPING AND LOCATION(S). 3. SEE SCHEDULE FOR ROUGH-INS.



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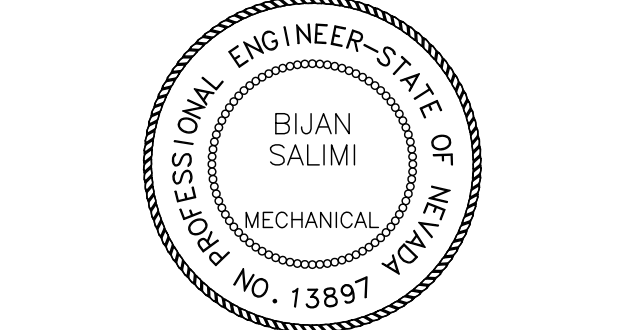
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LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

Sheet Title

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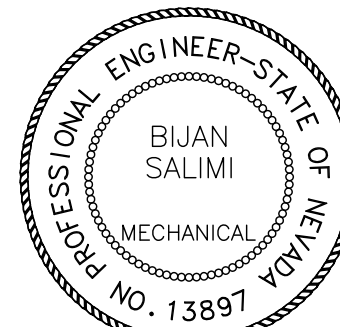
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UNLV VIVARIUM4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

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NEVADA, LAS VEGAS****PERMIT SET**

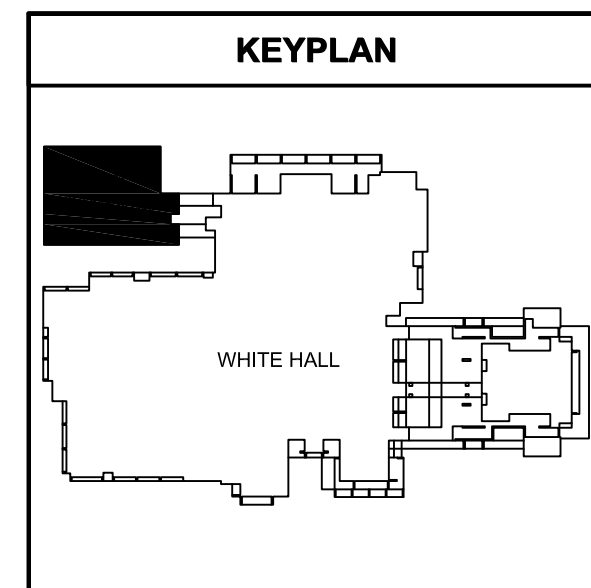
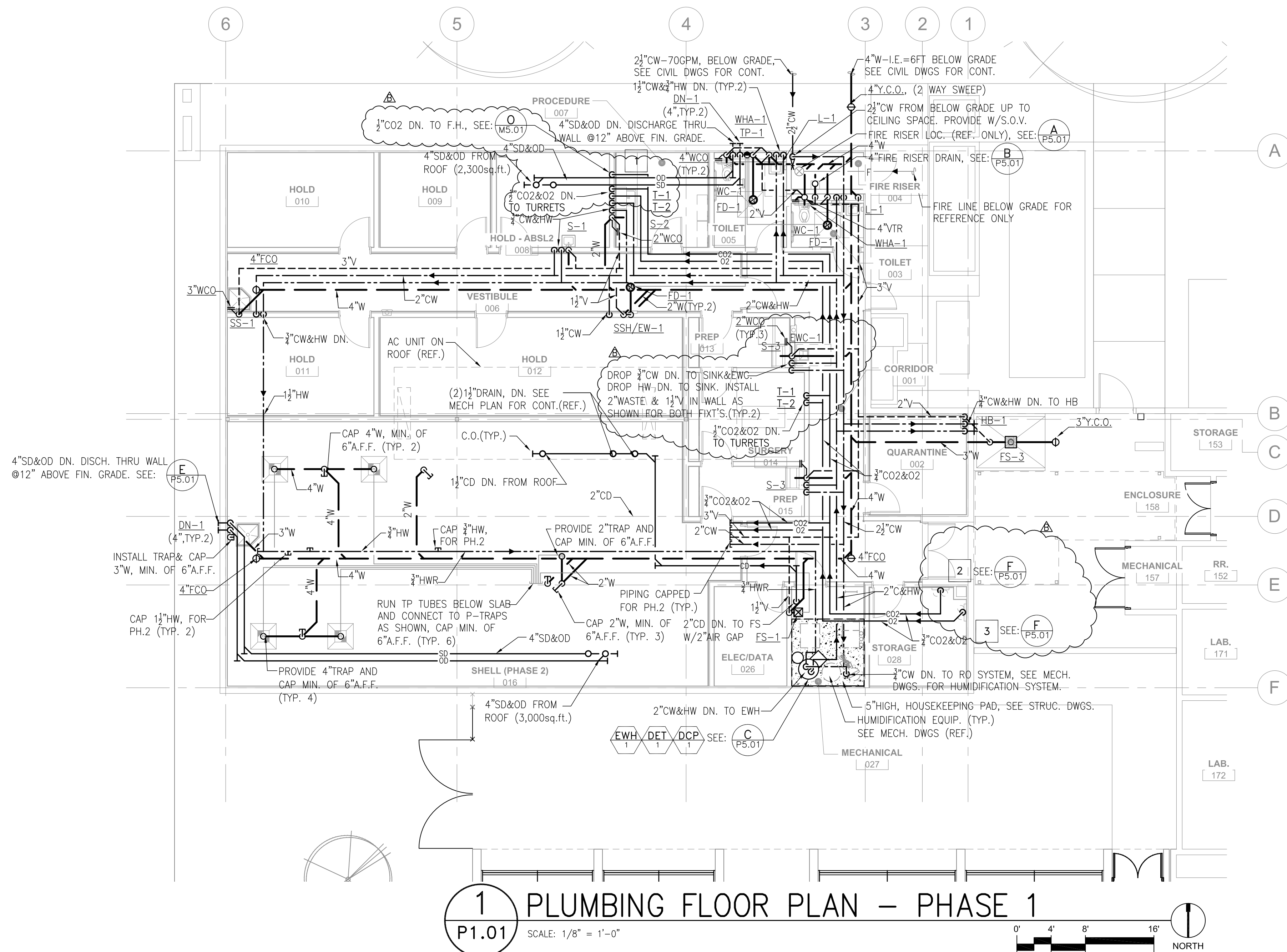
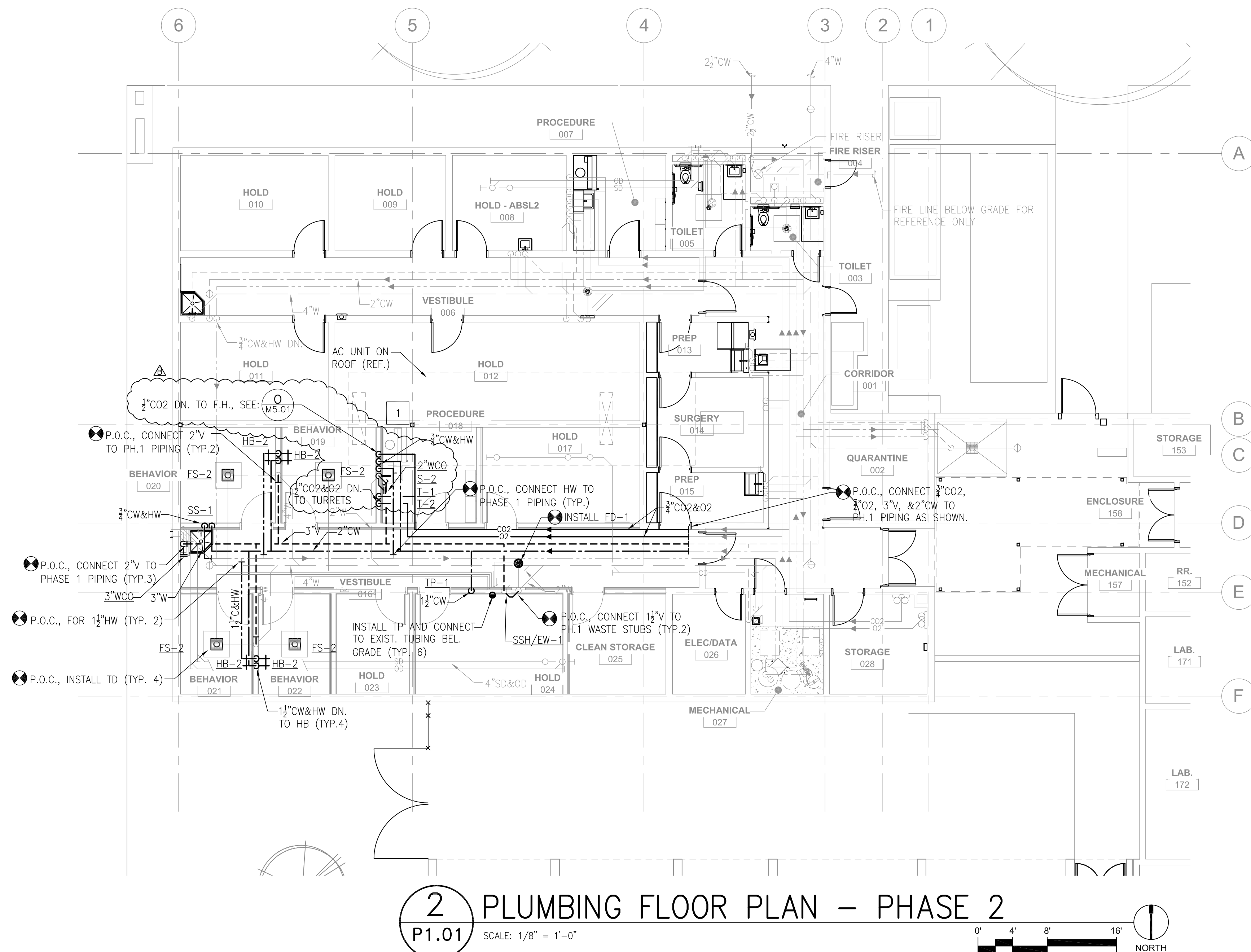
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REV	DESCRIPTION
B	06/19/16 ADDENDUM B

Sheet Title

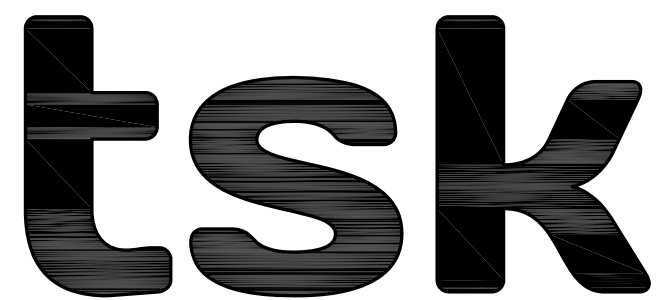
PHASED FLOOR PLANS

Date: 06/17/2016

Sheet No:

P1.01

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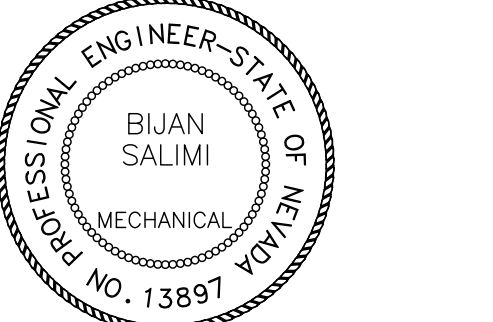
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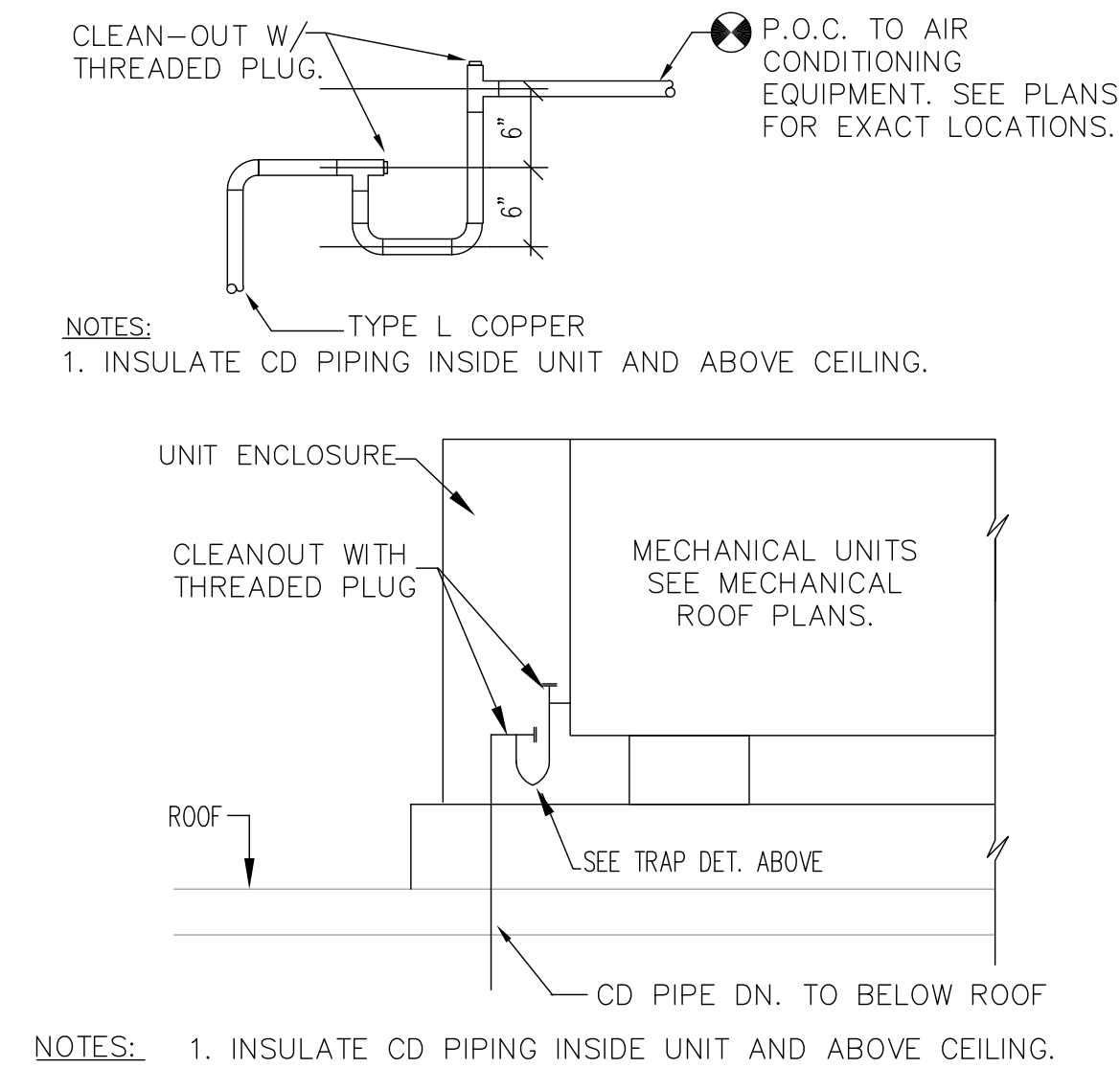
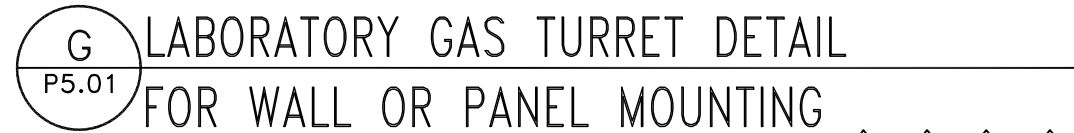
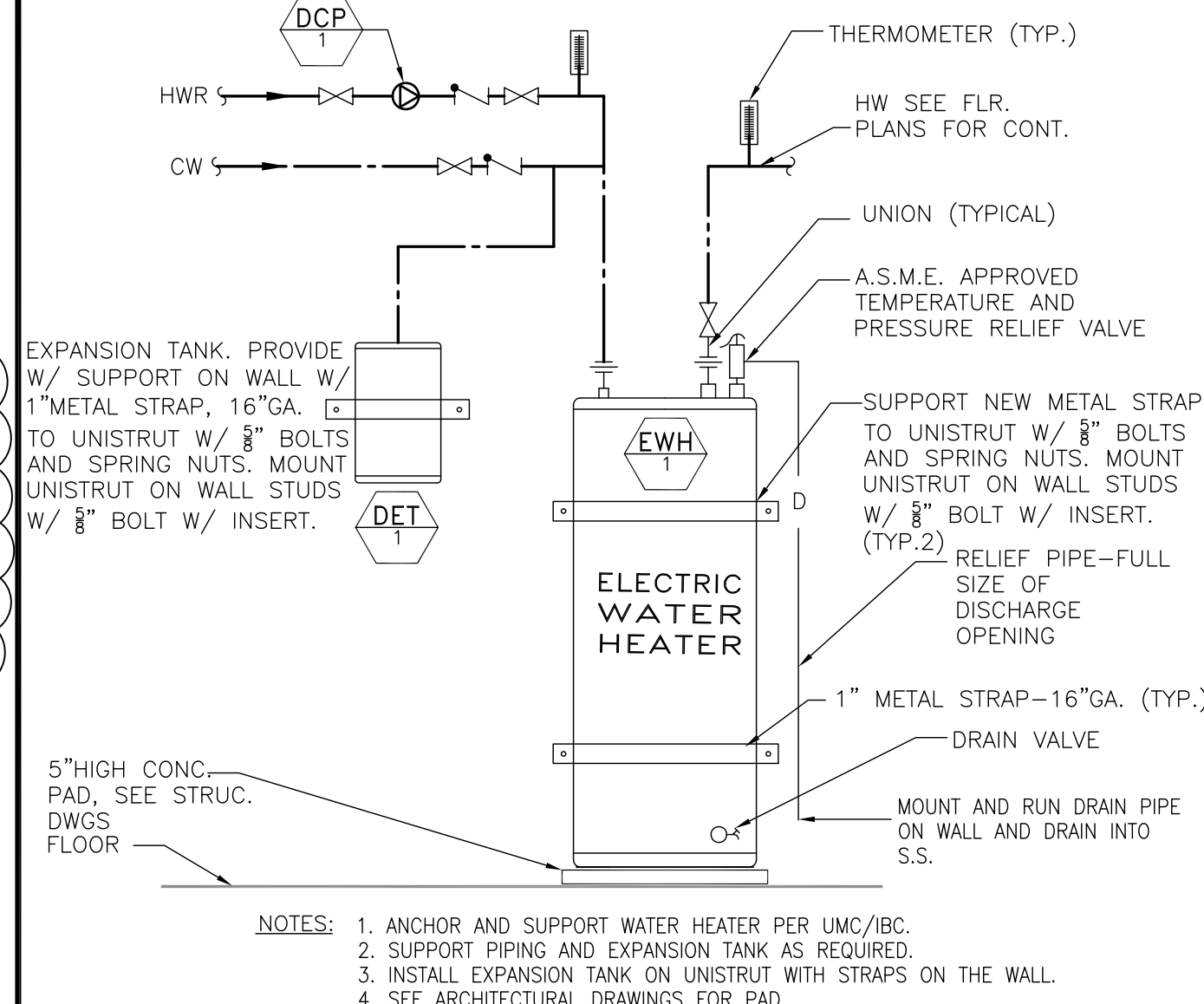
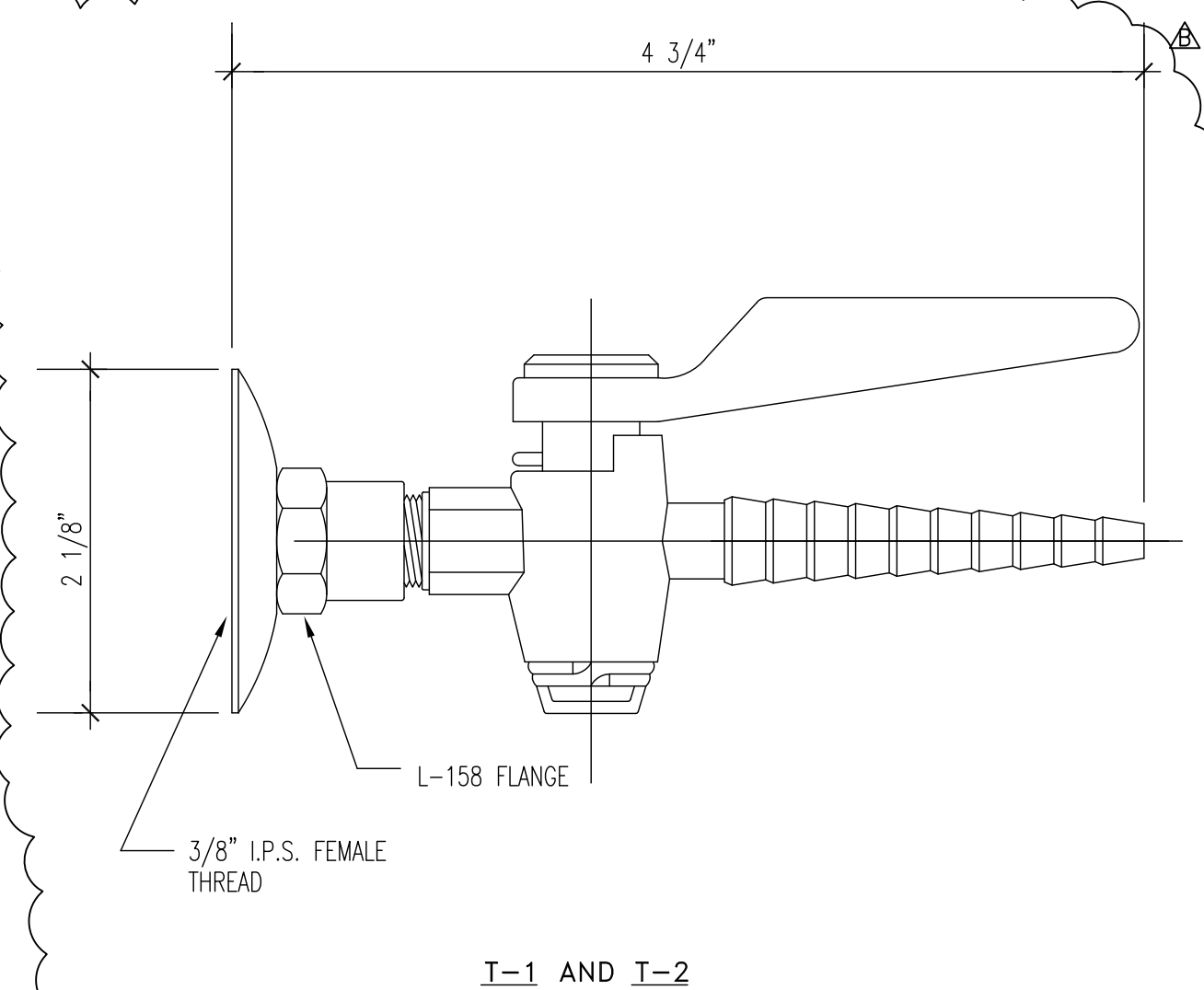
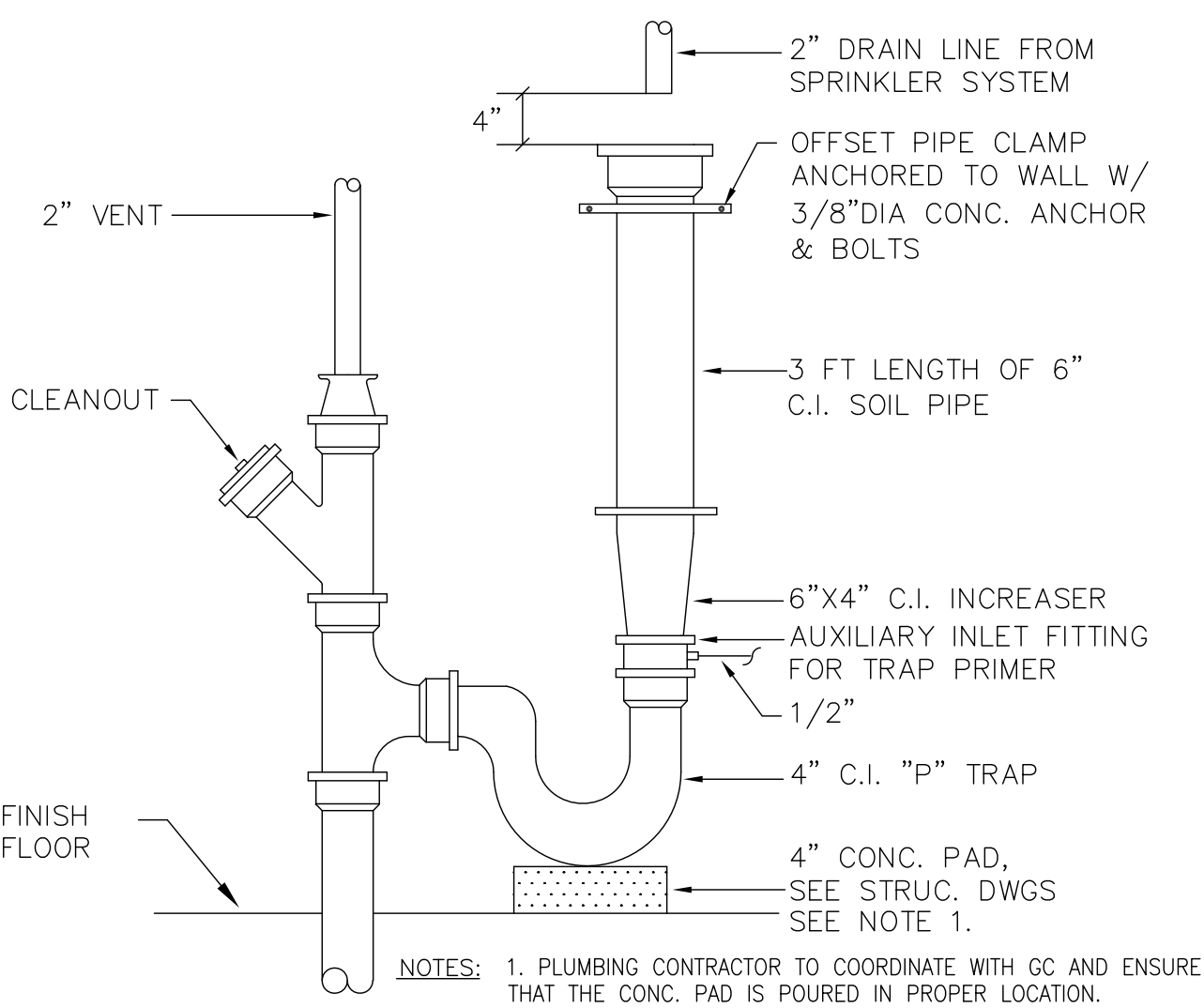
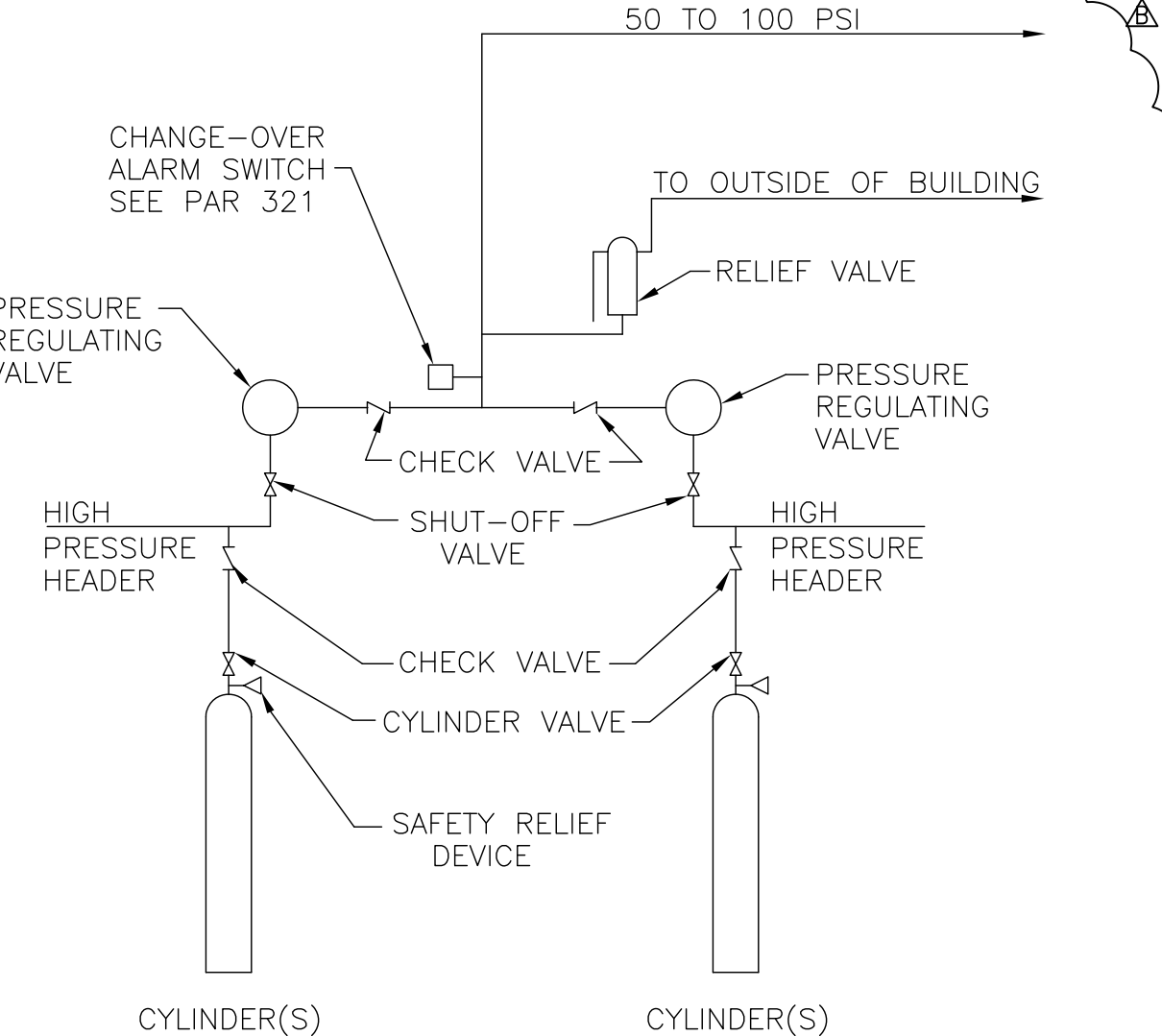
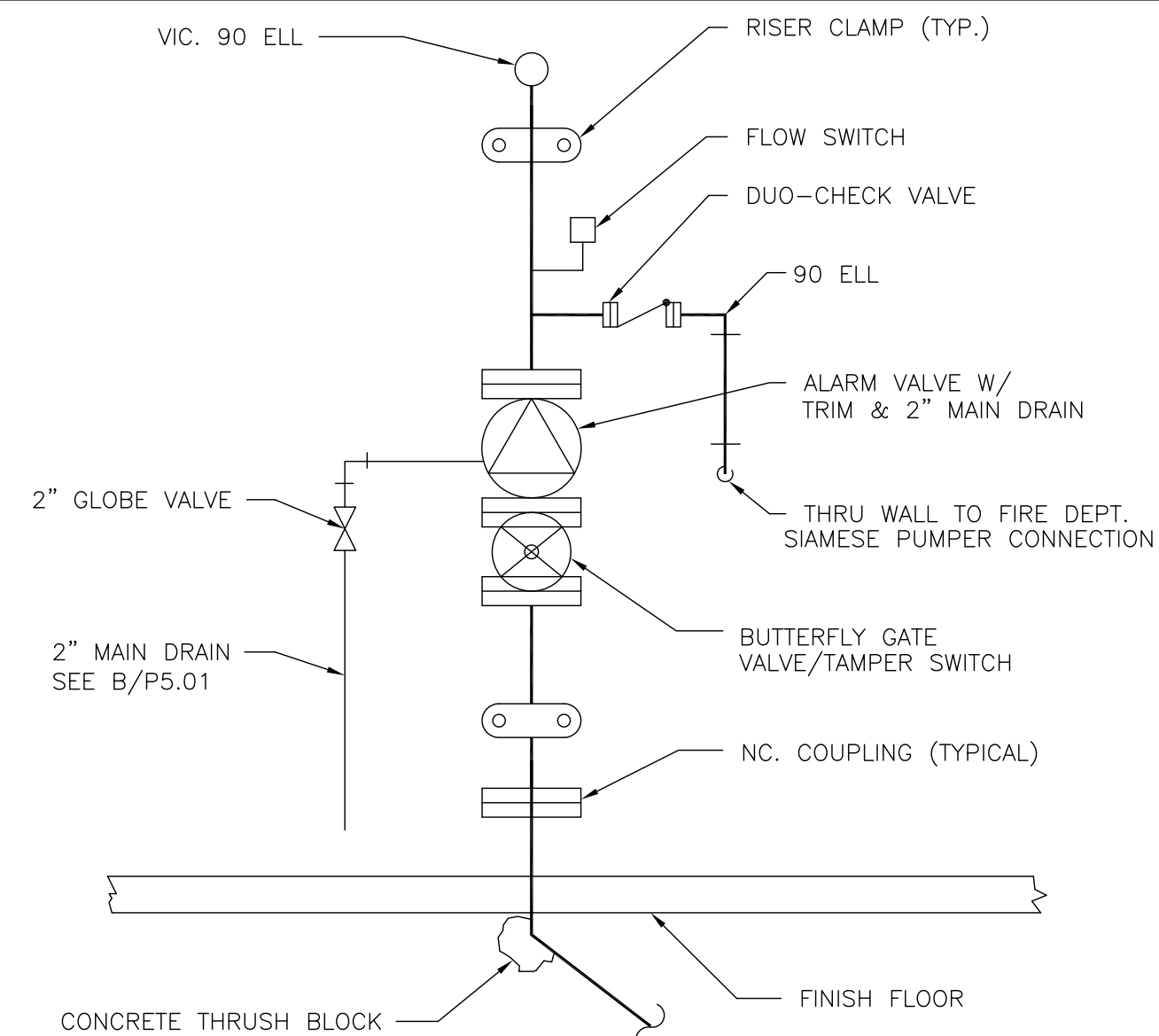
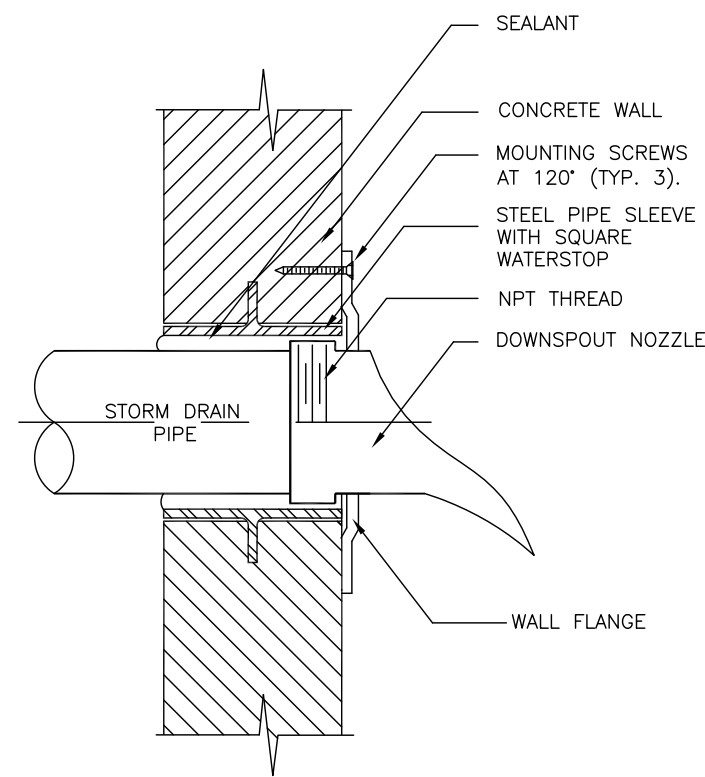
Project
UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner
**UNIVERSITY OF
NEVADA, LAS VEGAS**

**UNIVERSITY OF
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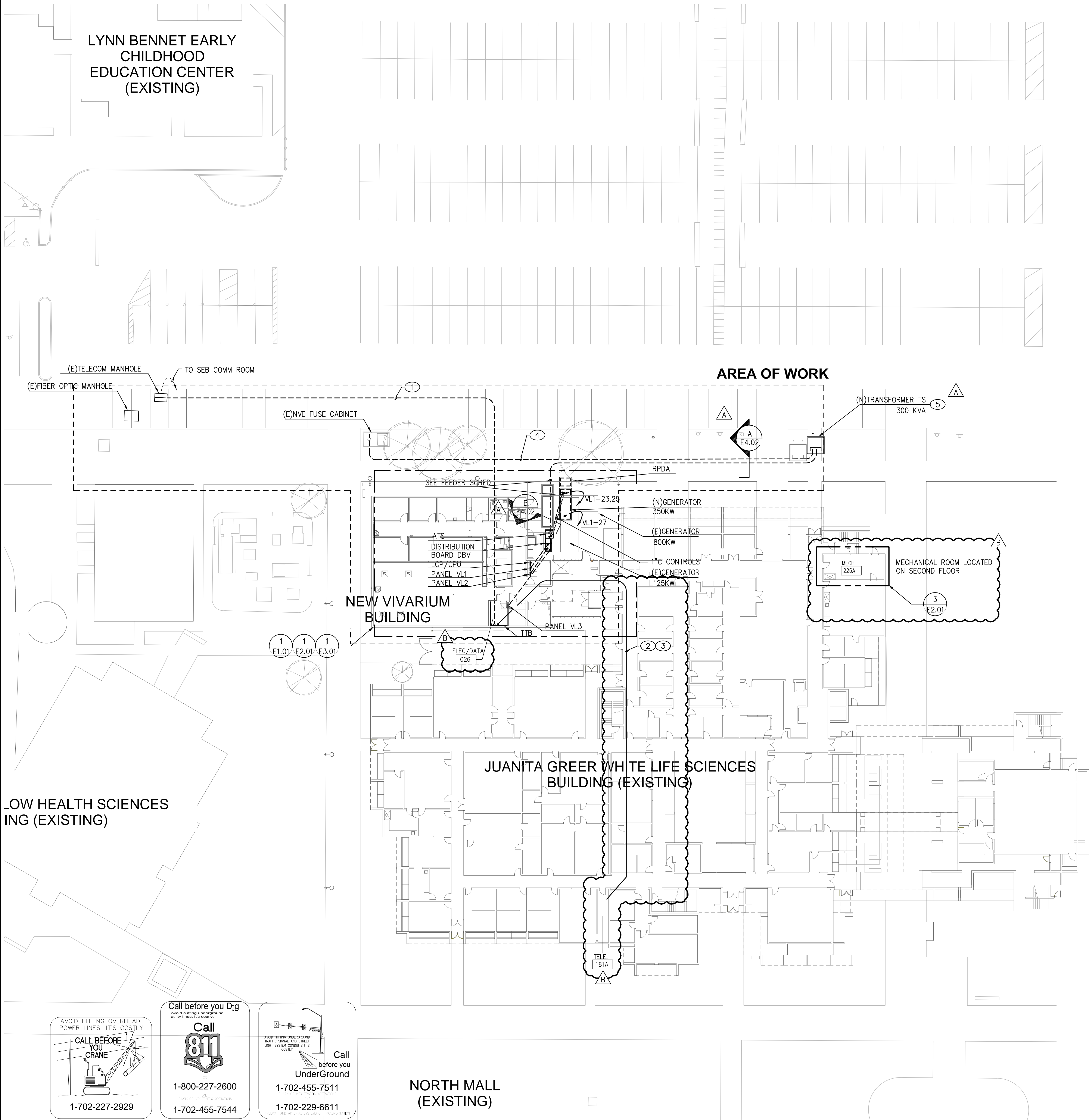
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a. YOUR DETAILED EXAMINATION OF THE DRAWINGS SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,

b. ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND

c. THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.

KEYNOTES

1. 4" C.O. WITH PULL STRING FROM EXISTING COMMUNICATIONS MANHOLE TO ROOM 026 TELEPHONE TERMINAL BACKBOARD 'TTB'. VERIFY LOCATION.

2. PROVIDE (2) 4" C.O.L. WITH PULL TAPE FROM ROOM 026 TTB TO WHITE HALL PLENUM SPACE.

3. PROVIDE 24-STRAND SM FIBER FROM ROOM 026 TTB TO WHITE HALL ROOM 181A. INSTALL FIBER IN 1-1/4" INNER DUCT MINIMUM.

4. ROUTE CONDUIT AROUND TREES.

5. PROVIDE TRANSFORMER PAD, BOLLARDS, AND PRIMARY AND SECONDARY DUCTBANK CONDUITS PER NVE PROJECT DRAWINGS. TRANSFORMER AND PRIMARY & SECONDARY CONDUCTORS BY NVE.

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ENGINEER
STATE OF NEVADA
GEORGE T. FOSTER, JR.
Exp. 6/30/17
ELECTRICAL
No. 15078
08/19/2016

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4505 SOUTH MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF NEVADA, LAS VEGAS

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REVISIONS	
REV	DESCRIPTION
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B	08/19/16 ADDENDUM B

Sheet Title

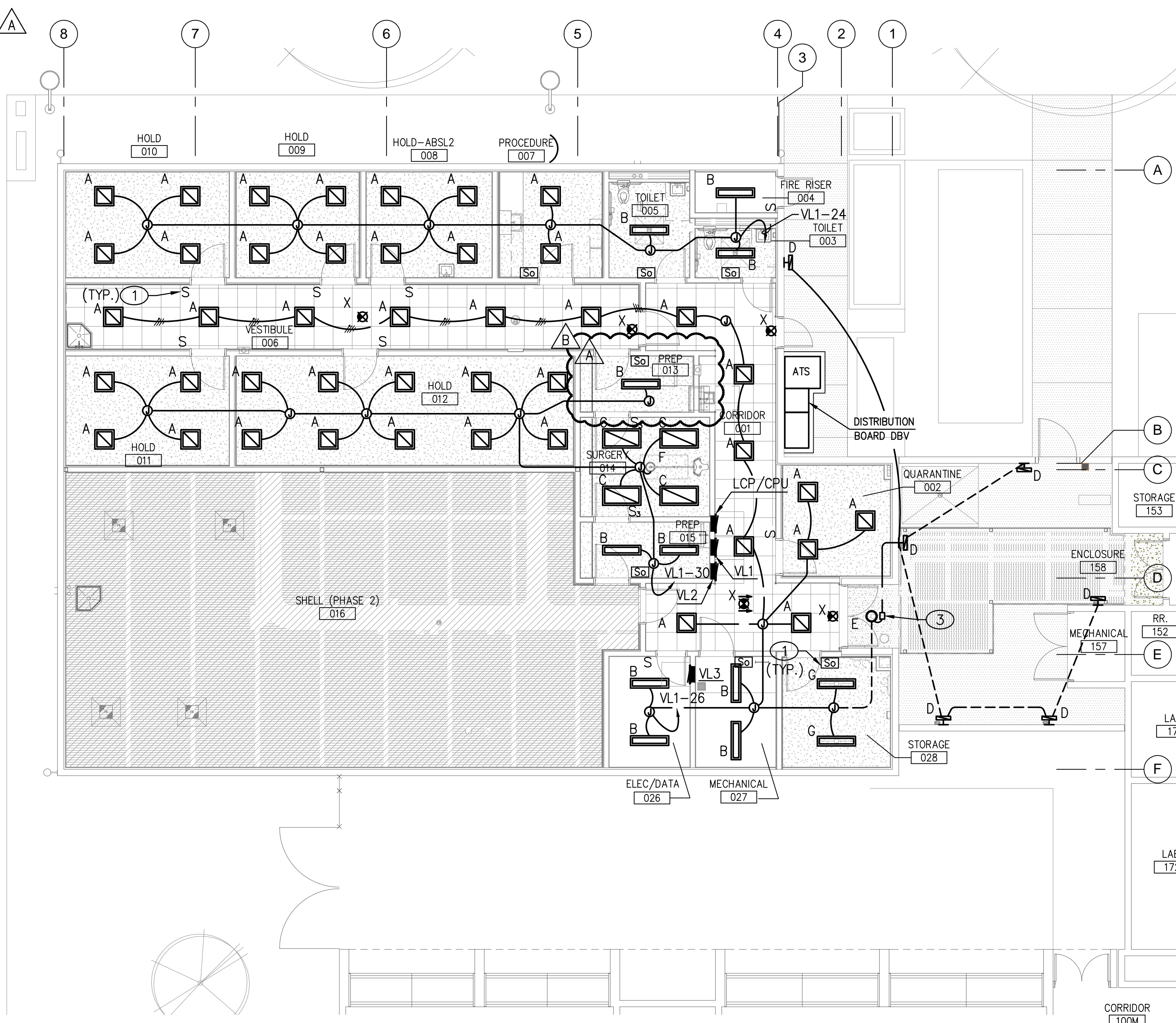
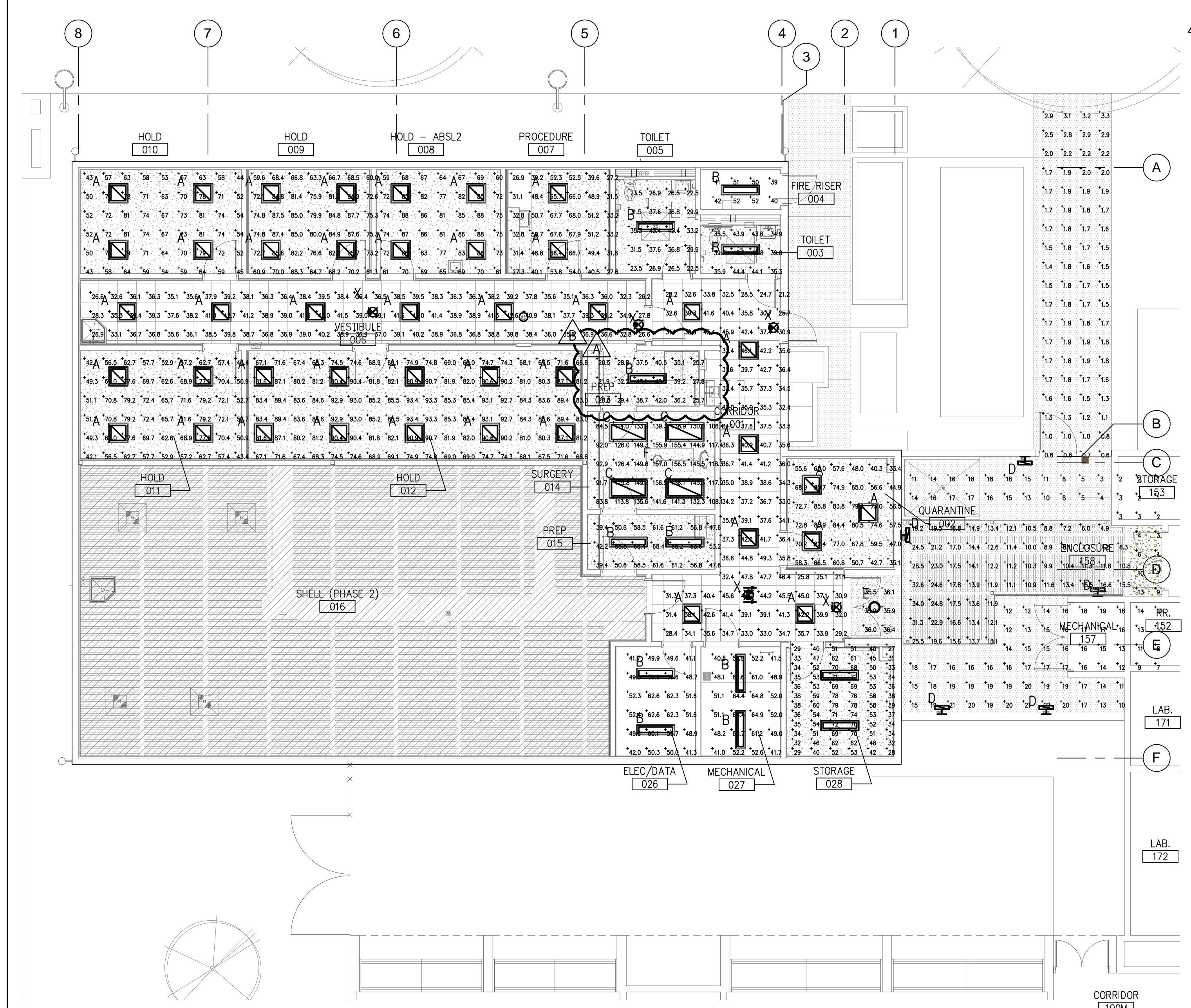
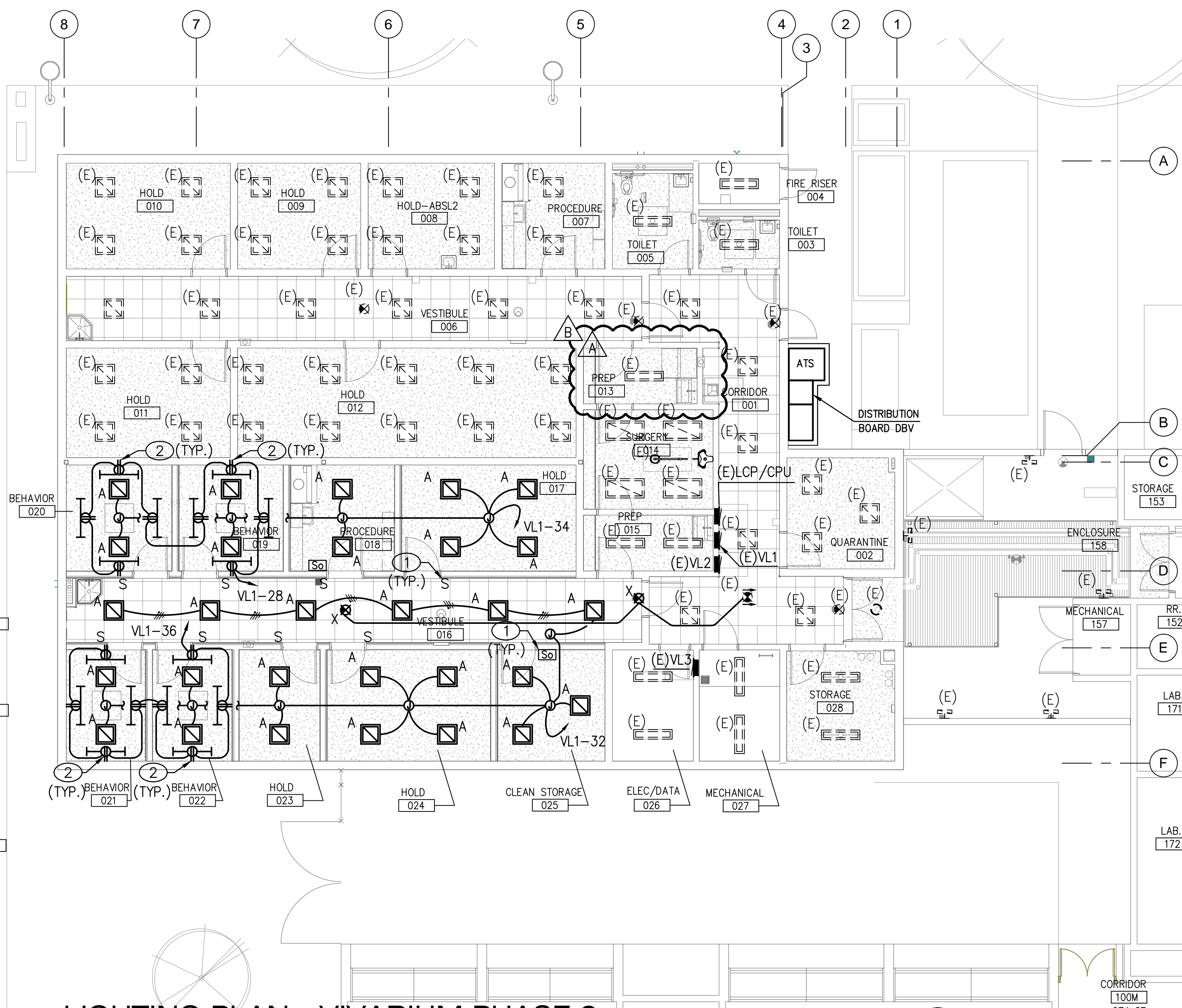
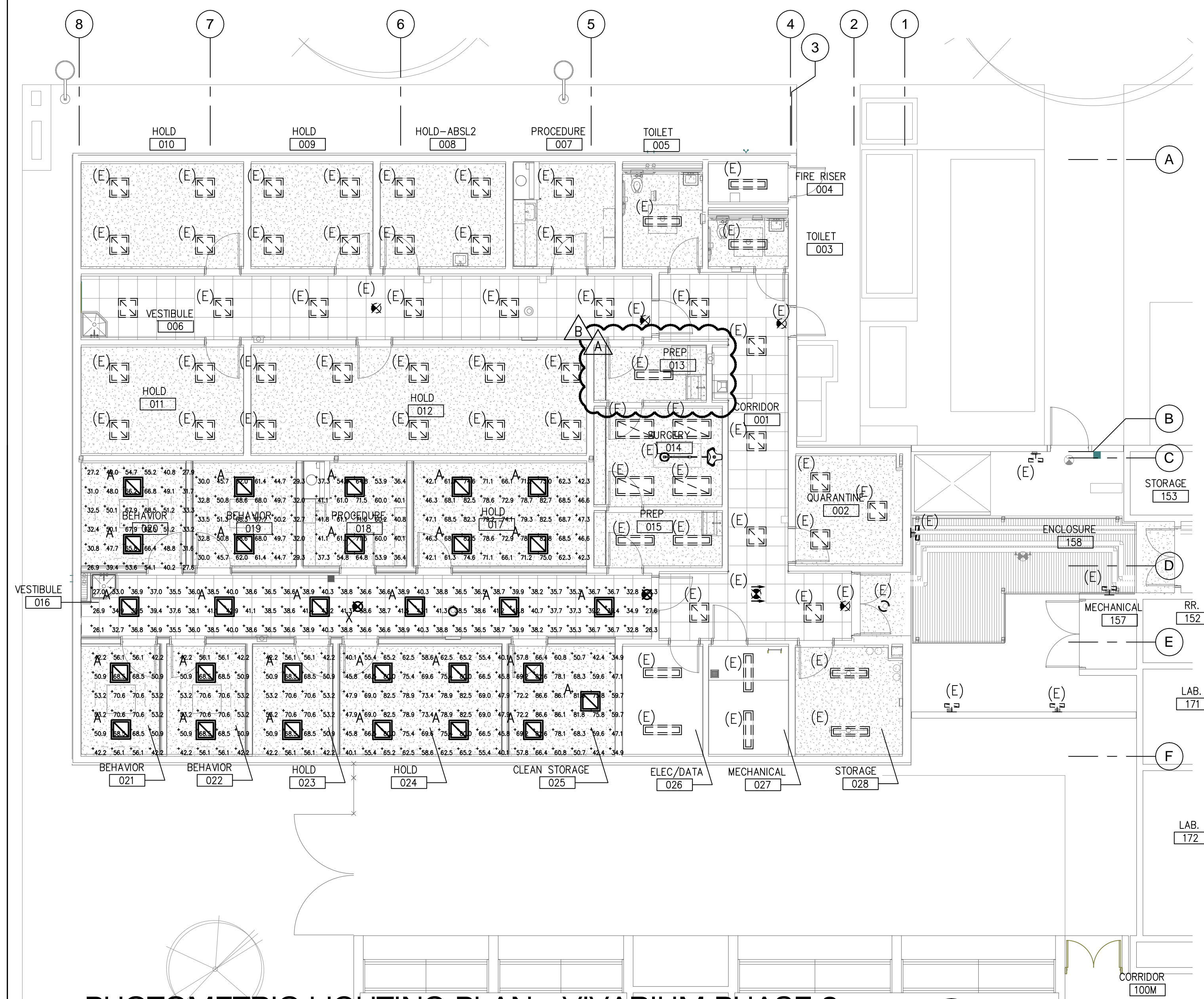
SITE ELECTRICAL PLAN- VIVARIUM

Date: 06/17/2016

Sheet No:

ES1.01

KEYPLAN



- GENERAL NOTES**
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 - ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF.
 - REFER TO SHEET E4.01 FOR SEQUENCE OF OPERATION.

KEYNOTES

- CONNECT TO LUTRON CONTROL PANEL. REFER TO LUTRON CONTROL DRAWINGS FOR ADDITIONAL INFORMATION.
- CEILING MOUNT RECEPTACLE FOR LIGHT BAR ADJACENT TO RECESSED STEEL STRUT.
- CEILING FLUSH MOUNTED PHOTOCELL FOR TYPE-E FIXTURE.

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Project
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4505 SOUTH MARYLAND PARKWAY
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Job No: 15-061
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REV	DATE	REVISIONS
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

Sheet Title
PHASED LIGHTING PLANS - VIVARIUM

Date: 06/17/2016
Sheet No:

KEYPLAN

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A	08/05/16	ADDENDUM A
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Sheet Title
PHASED LIGHTING PLANS - VIVARIUM

Date: 06/17/2016
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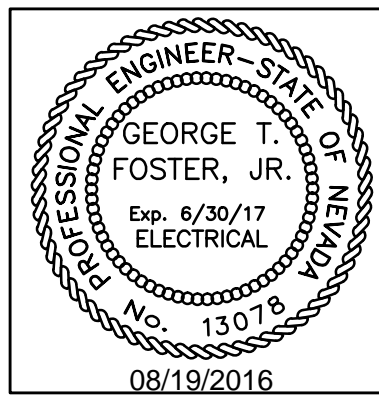
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PHASED LIGHTING PLANS - VIVARIUM

Date: 06/17/2016
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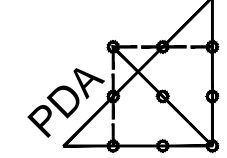
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A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

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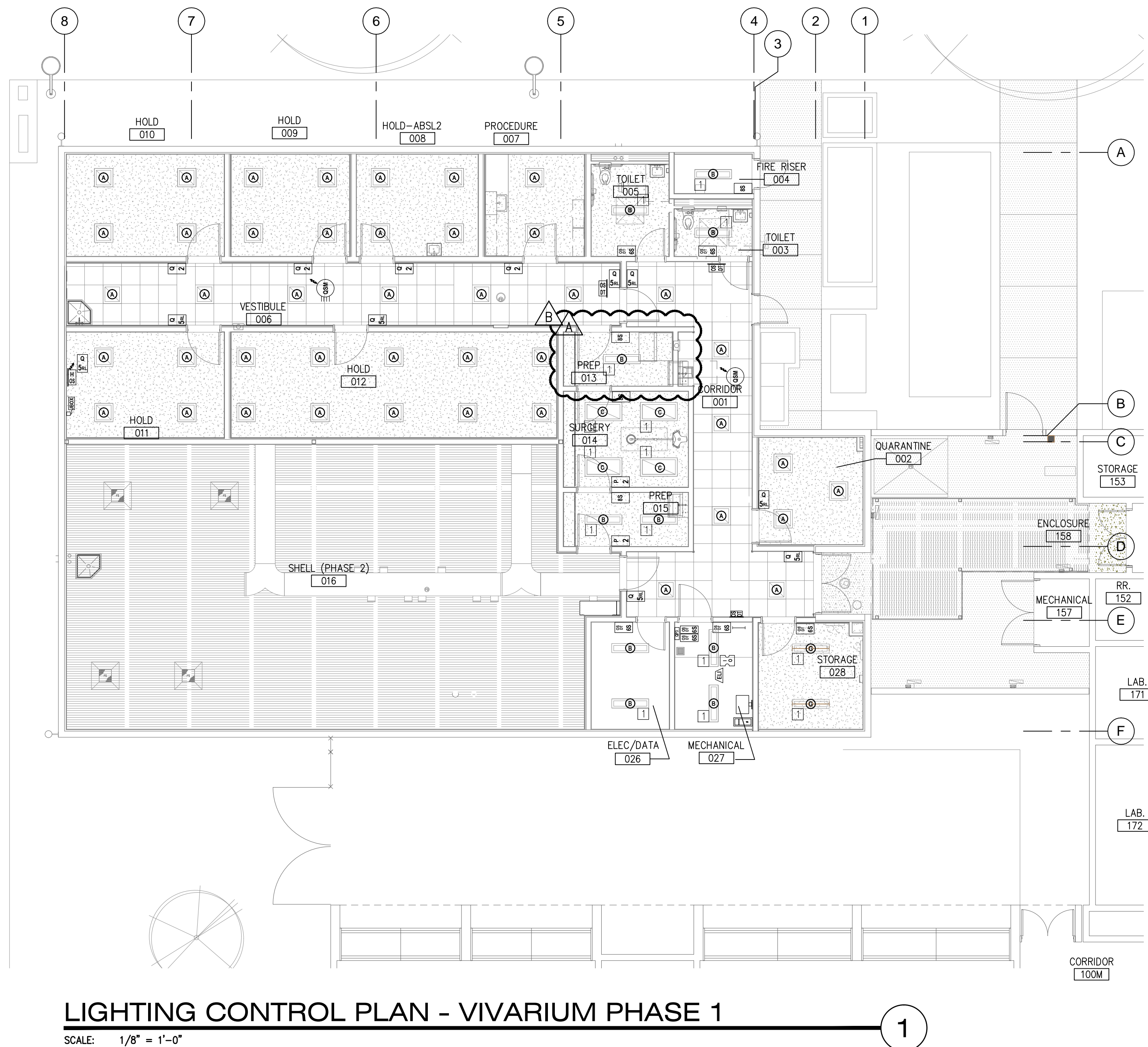
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CONTROL PLANS -
VIVARIUM**

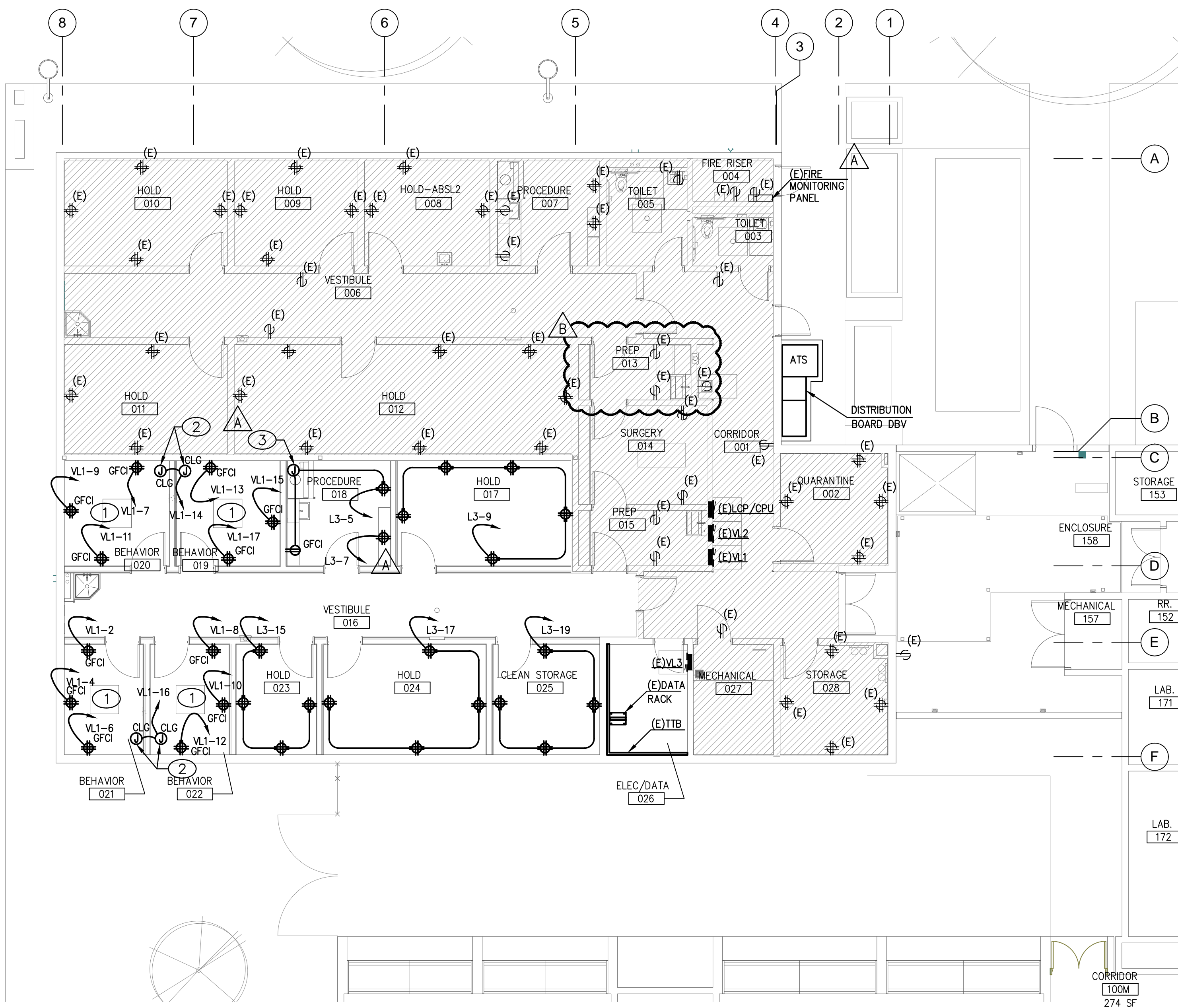
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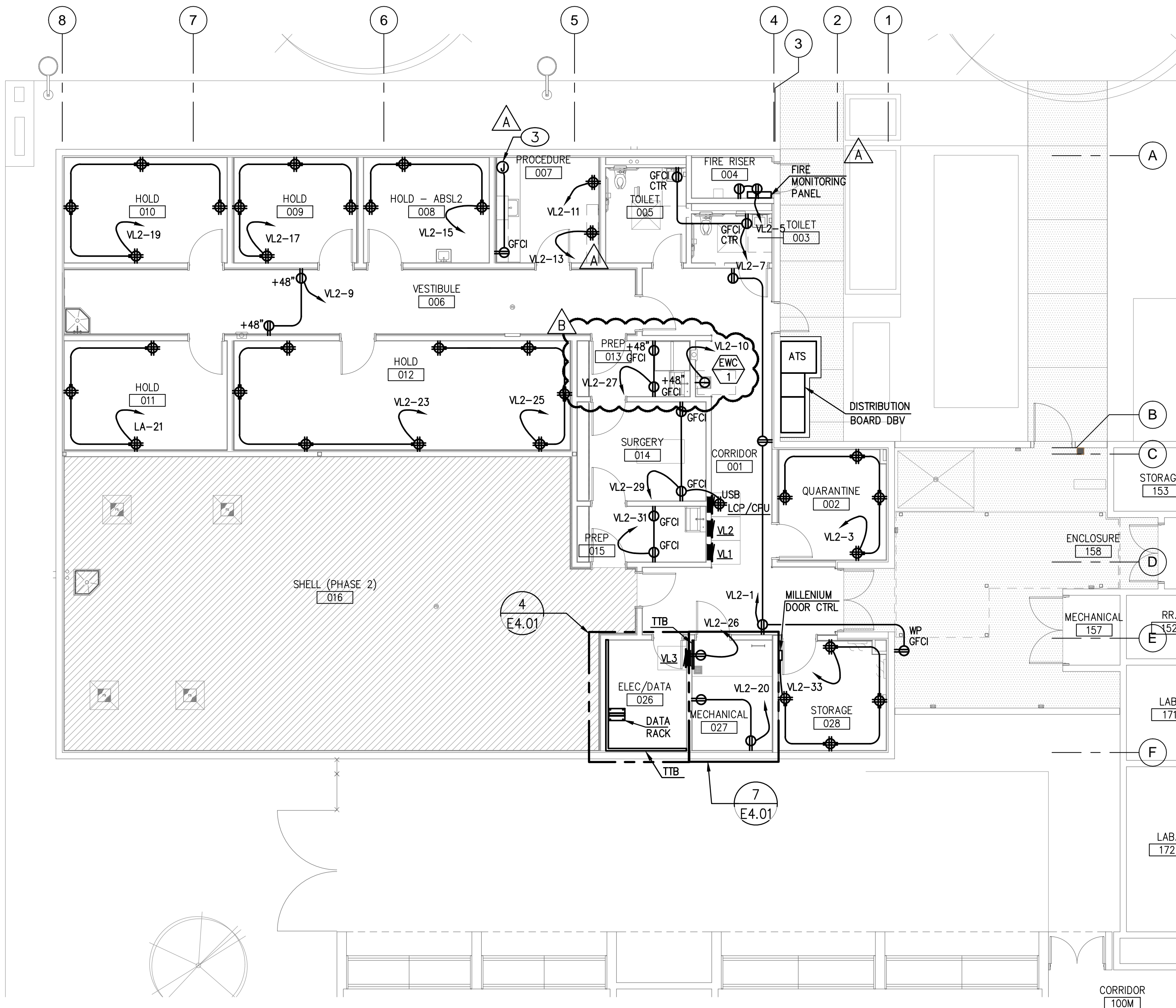
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(C)	E1.01>MECHANICAL 027.HUB 001.LINKA.ESN Eco#2>LOOP 2 (58 of 64)
QS-A-CMP-LBO-0 (1)	
QS-A-CMP-SBO-0 (1)	
QP3-1PL-100-240 (1)	
QSN-2ECO-S (2)	
QSM-2-4W-C (3)	
MS-A102-WH (5)	
PJ2-2B-GWH-L01 (CW-1-WH) (2)	
QSW2-BI-WH (16)	
QSW2-5BRLI-WH (7)	
LOS-WDT-WH (6)	
LUT-ELI-3PH (PP-120H) (1)	
QSE-IO (1)	
MRF-2-8S-DV-WH (4)	
QSPS-J-1-50 (1)	





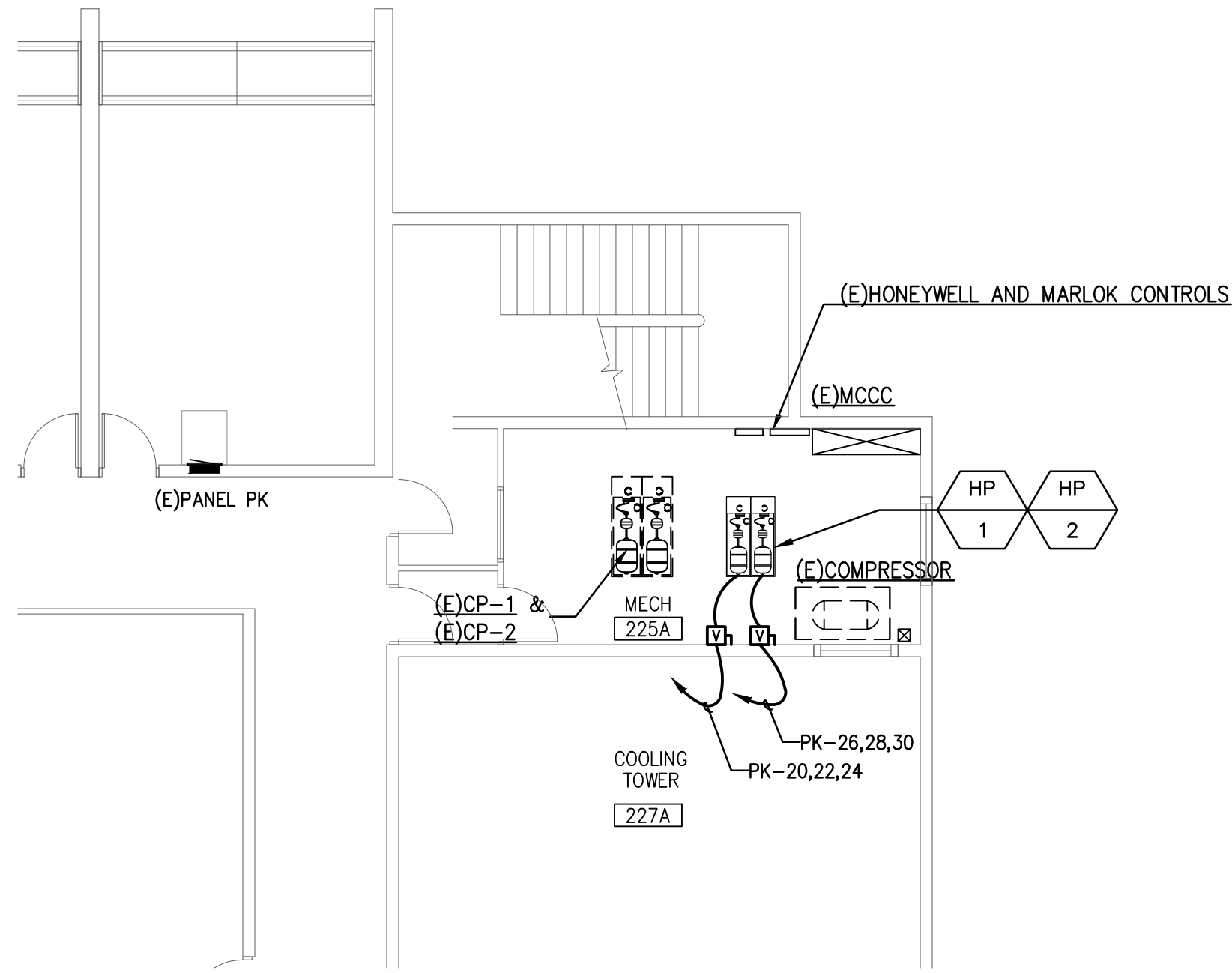
POWER PLAN - VIVARIUM PHASE 2

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



POWER PLAN - VIVARIUM PHASE 1

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



POWER PLAN - VIVARIUM

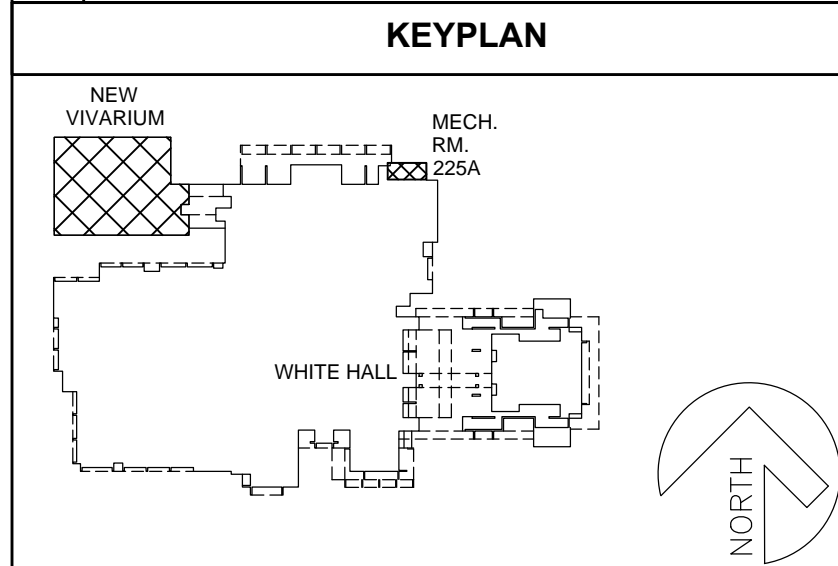
SCALE: 1/8" = 1'-0"

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 2. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VERMIN PROOF.
 3. VERIFY ALL DEVICE MOUNTING HEIGHTS PRIOR TO ROUGHING IN. IN HOLDING, QUARANTINE AND BEHAVIOR ROOMS, MOUNT 120V, 20A, QUADRUPEX OUTLETS AT WALLS 6'-0" ABOVE FLOOR, UNLESS NOTED OTHERWISE.

- KEYNOTES**
1. ALL RECEPTACLES IN THIS ROOM SHALL BE WP, GFCI AND ISOLATED GROUND.
 2. CEILING MOUNTED JUNCTION BOX FOR CAMERA. VERIFY EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
 3. JUNCTION BOX FOR FUME HOOD. COORDINATE LOCATION AND REQUIREMENTS WITH HOOD CONTRACTOR.

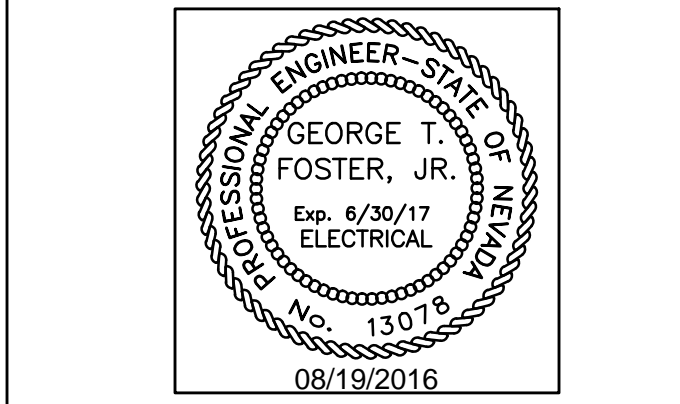
MECHANICAL ROOM 225A

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



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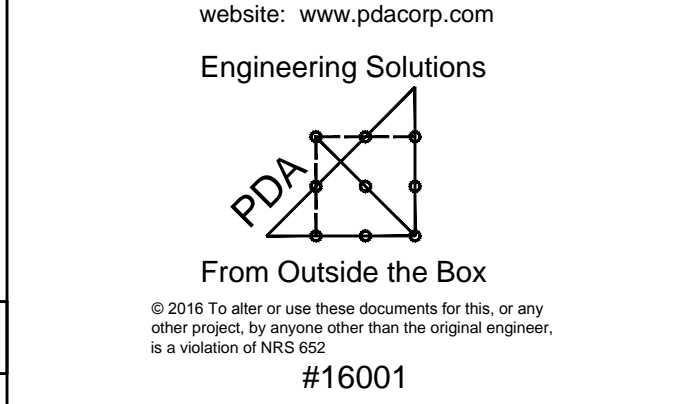


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4505 SOUTH
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LAS VEGAS, NV 89154

Job No: 15-061

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Sheet Title

**PHASED POWER PLANS
- VIVARIUM**

Date: 06/17/2016

Sheet No:

E2.01

FIRE ALARM REQUIREMENTS

PROVIDE A COMPLETE NEW ADDRESSIBLE FIRE ALARM SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND AS FOLLOWS:

THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO ESTABLISH CRITERIA AND QUALITY ONLY. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AS WELL AS THE INSTALLATION. THE PRICE SHALL BE FOR A COMPLETE TURN-KEY PROJECT. NO CHANGE ORDERS SHALL BE ALLOWED EXCEPT FOR BUILDING CHANGES TO THE BID DOCUMENTS. THE CONTRACT BID DRAWINGS INCLUDING ARCHITECTURAL, ELECTRICAL, FIRE PROTECTION, MECHANICAL, PLUMBING AND STRUCTURAL ARE TO SHOW THE GENERAL LAYOUT OF THE PROJECT AND ARE NOT TO BE CONSIDERED THE COMPLETE DESIGN CRITERIA. THE FIRE ALARM CONTRACTOR SHALL REGARD THEM AS REFERENCE DOCUMENTS ONLY. WHEN DESIGN DOCUMENTS ARE IN CONFLICT WITH CODES, CODES SHALL GOVERN THE INSTALLATION, AND THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AT NO ADDITIONAL COST. HOWEVER, WHENEVER THE DESIGN CRITERIA EXCEEDS CODE REQUIREMENTS, THE DESIGN DOCUMENTS SHALL GOVERN THE INSTALLATION AND THE CONTRACTOR SHALL BID ACCORDINGLY.

THIS CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT TO COMPLETE THE FIRE ALARM SYSTEMS AS DESCRIBED HEREWITHIN AND AS HEREIN AFTER DESCRIBED READY FOR SERVICE TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.

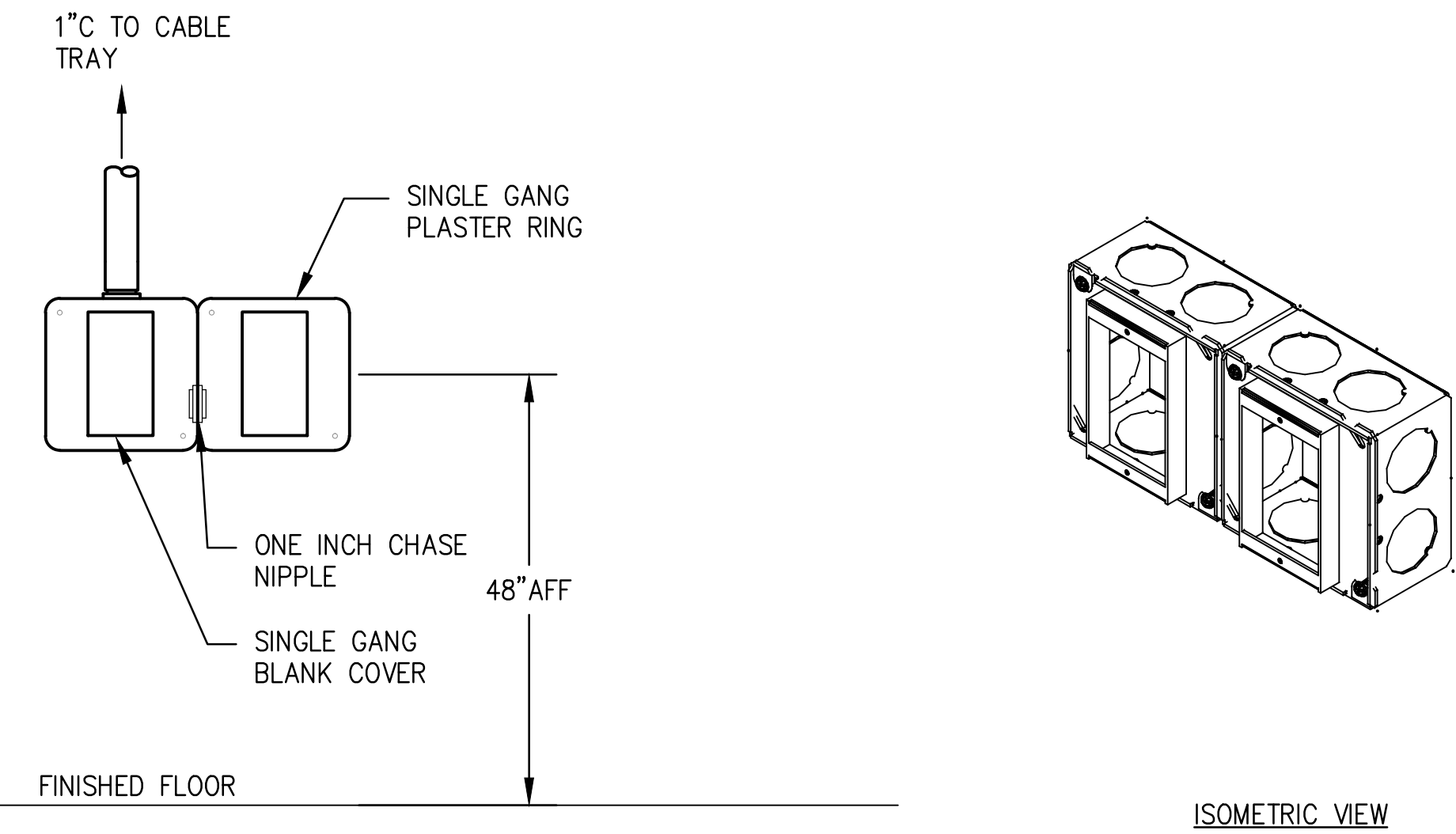
THE WORK INCLUDES, IN GENERAL, THE FOLLOWING:

- (1) ENGINEERED DRAWINGS, CALCULATIONS, AND MATERIAL SUBMITTALS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- (2) COORDINATION OF WORK IN THIS SECTION WITH ALL TRADES.
- (3) VERIFY ALL DIMENSIONS IN THE FIELD.
- (4) COMPLETE MONITORING SERVICE TO TELEPHONE BACKBOARD.
- (5) COMPLETE SYSTEM OF FIRE ALARM DEVICES (INCLUDING SMOKE DETECTORS, HEAT DETECTORS, HORNS, STROBES, PULL STATIONS, ETC.) FOR ALL AREAS AS REQUIRED BY STATE AND LOCAL FIRE MARSHALS AND INSTALLED PER NFPA GUIDELINES.
- (6) EXCAVATION, TRENCHING AND BACKFILL.
- (7) INSPECTIONS AND TESTS.
- (8) INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS NOR MENTIONED IN THE SPECIFICATIONS THAT BELONG TO THE WORK DESCRIBED TO PROVIDE A COMPLETE SYSTEM.
- (9) GUARANTEE.

FIRE SPRINKLER CONTRACTOR SHALL FURNISH AND INSTALL TAMPER SWITCHES, FLOW INDICATORS, AND FIRE ALARM BELLS.

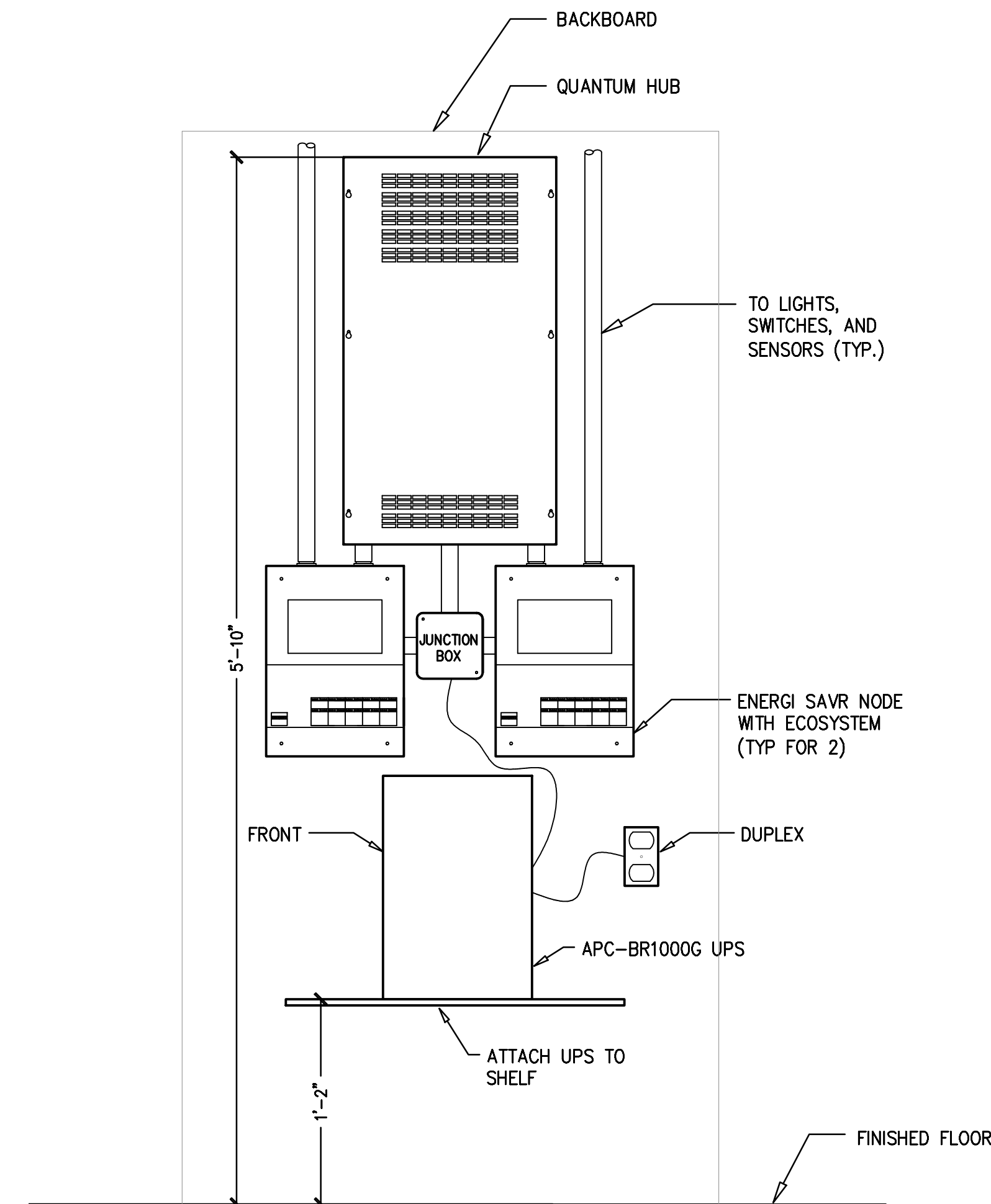
THE WORK OF THIS SECTION SHALL COMPLY WITH CURRENT EDITIONS OF NFPA, UNIFORM BUILDING CODE, STATE FIRE AUTHORITY (STATE OF NEVADA INDUSTRIAL INSURANCE SYSTEM), AND ALL LOCAL AND OTHER GOVERNING AGENCIES HAVING JURISDICTION.

DESIGN-BUILD OF THE FIRE ALARM SYSTEM SHALL BE ACCOMPISHED BY THE STATE LICENSED ALARM COMPANY. LAYOUT OF DEVICES SHALL BE COORDINATED WITH ARCHITECT'S PLANS. PRIOR TO SUBMITTAL OF SHOP DRAWINGS TO GOVERNING AUTHORITIES, THIS CONTRACTOR SHALL SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL PRELIMINARY CONDUIT ROUTING AND DEVICE LAYOUTS. THIS CONTRACTOR SHALL THEN OBTAIN STAMPED APPROVALS FROM THE STATE FIRE MARSHAL'S OFFICE, LOCAL FIRE DEPARTMENT AGENCIES, AND BUILDING DEPARTMENT. AFTER ALL GOVERNING AGENCIES HAVE APPROVED THE DRAWINGS, SUBMIT TO ARCHITECT/ENGINEER. FOR FINAL APPROVAL. APPROVED DRAWINGS SHALL THEN BE ISSUED TO ALL PARTIES CONCERNED FOR CONSTRUCTION.



SCADA DROPS (TYPICAL)

SCALE: NOT TO SCALE



LUTRON CONTROL PANEL ELEVATION

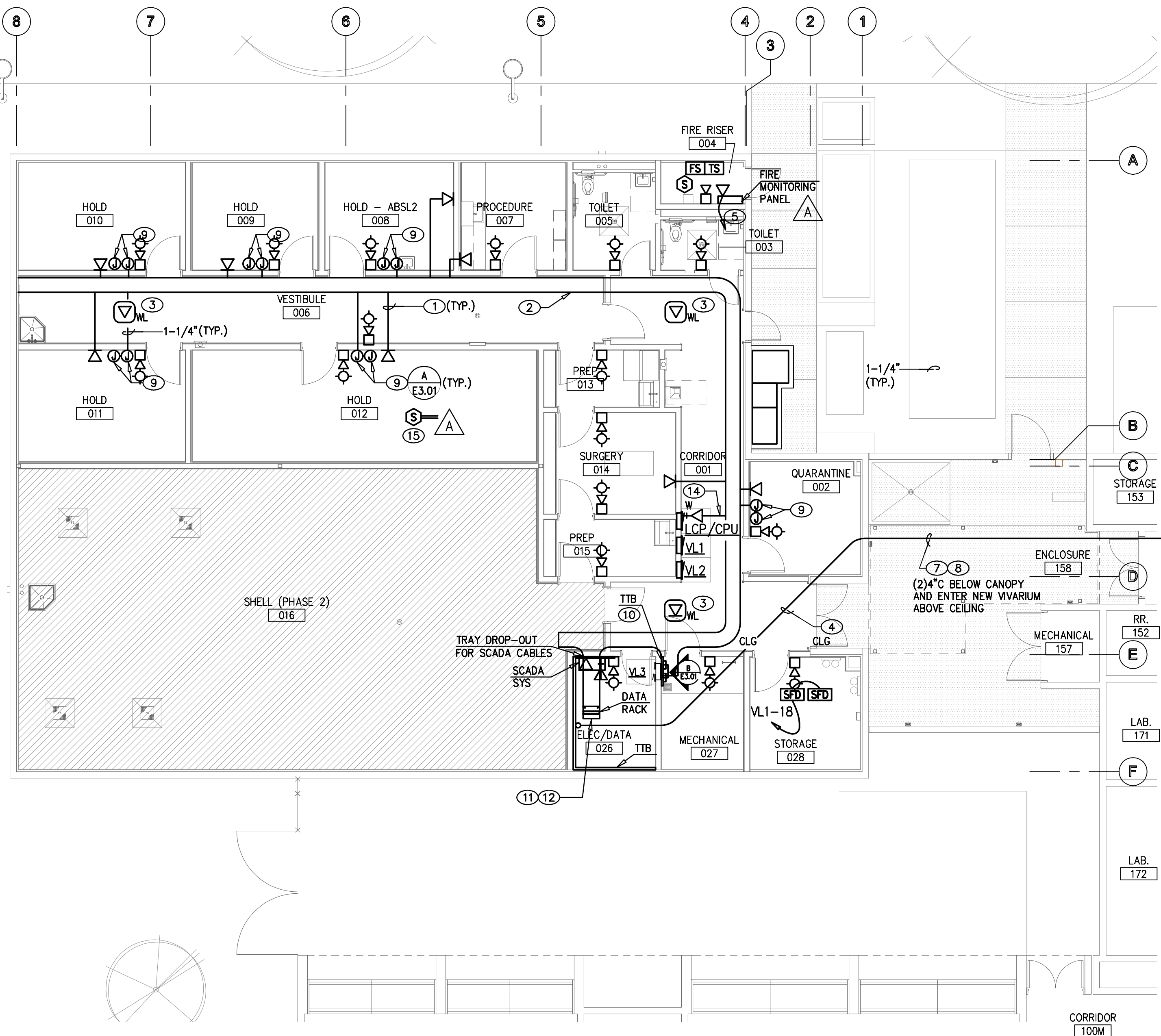
SCALE: NOT TO SCALE REFER TO SHEET E1.02; E1.03; E1.04; E1.05 AND E4.01 FOR ADDITIONAL INFORMATION

LEGEND

- DATA WALL OUTLET 18" AFF. COORDINATE WITH OWNER'S REPRESENTATIVE
- VOIP WALL OUTLET VERIFY EXACT MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE
- COMBINATION VOIP/ANALOG WALL OUTLET VERIFY EXACT MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE
- DATA CEILING OUTLET VERIFY EXACT MOUNTING HEIGHT WITH OWNER'S REPRESENTATIVE
- WIRELESS ACCESS POINT. VERIFY EXACT MOUNTING REQUIREMENTS AND LOCATION WITH OWNER'S REPRESENTATIVE
- CARD READER.
- CARD READER (FUTURE)
- FIRE ALARM RED STROBE AND HORN (LESS THAN 900 HZ)
- FIRE ALARM HORN (LESS THAN 900 HZ)

AUXILIARY PLAN - VIVARIUM PHASE 2

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



AUXILIARY PLAN - VIVARIUM PHASE 1

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

GENERAL NOTES

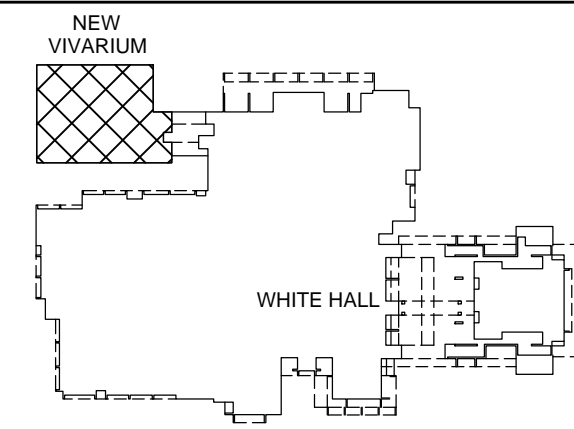
1. INFORMATION SHOWN IS BASED ON LIMITED FIELD SURVEYS. CONTRACTOR SHALL VERIFY ALL INFORMATION PRIOR TO BID WHICH MAY RESULT IN EXTRA WORK AND BRING SUCH ITEMS TO THE ATTENTION OF THE OWNER AT LEAST TEN DAYS PRIOR TO BID OPENING FOR RESOLUTION. SUBMITTAL OF BIDS FOR THE WORK IDENTIFIED IN THE CONSTRUCTION CONTRACT DOCUMENTS SHALL INDICATE TO THE OWNER THAT:
 - a. YOUR DETAILED EXAMINATION OF THE DRAWINGS SPECIFICATIONS HAS REVEALED NO AMBIGUITIES WHICH NEED CLARIFICATION,
 - b. ONLY AUTHORIZED DATA HAVE BEEN USED TO ARRIVE AT YOUR BID FIGURE, AND
 - c. THE EXPERIENCE AND CAPABILITIES OF YOUR FIRM, YOUR WORKERS, AND SUBCONTRACTORS ARE ADEQUATE AND APPROPRIATE TO PERFORM THE CONSTRUCTION OF THIS TYPE OF PROJECT.
2. ALL CONDUIT PENETRATIONS AND FIXTURES SHALL BE VARMIN PROOF
3. FIRE ALARM CHIME STROBE LESS THAN 900 MEGAHERTZ.
4. VERIFY ALL DEVICE MOUNTING HEIGHTS PRIOR TO ROUGHING IN.
5. ALL DATA OUTLET CABLING SHALL BE CAT-6A.

KEYNOTES

1. 1" C to CABLE TRAY. PROVIDE CAT-6A CABLE FROM OUTLET TO ROOM 026 DATA RACK. REFER TO DETAIL 2/E4.01 FOR ADDITIONAL INFORMATION.
2. 18"x4" DEEP CENTER SUPPORT OPEN LADDER CABLE TRAY.
3. WIRELESS ACCESS POINT (2) CAT-6A CABLES FROM EACH LOCATION TO DATA RACK IN ROOM 026.
4. DO NOT ROUTE THIS CONDUIT THROUGH FIRE RATED ROOM 028.
5. 3/4" C to CABLE TRAY FOR FIRE PANEL MONITORING.
6. FIRE ALARM STROBES TO FLASH RED.
7. PROVIDE (1) 24 STRANDS OF SINGLE-MODE FIBER FROM ROOM 026 TO WHITE HALL ROOM 181A IN ONE OF TWO CONDUITS. REFER TO E3.01 FOR ADDITIONAL INFORMATION.
8. PROVIDE (1) 25 PAIR TELEPHONE CABLE FROM ROOM 026 TO WHITE HALL ROOM 181A IN ONE OF TWO CONDUITS. REFER TO E3.01 FOR ADDITIONAL INFORMATION.
9. IN EACH BEHAVIOR, HOLDING AND QUARANTINE ROOM, ALONG THE WALL ADJACENT TO THE CORRIDOR, PROVIDE (1) 1" CONDUIT FROM TWO INDIVIDUAL 4-S DEEP BOXES (WITH SINGLE GANG RINGS SEPARATED BY 2 INCHES), 48" AFF, UP TO CABLE TRAY FOR SCADA SYSTEM. SEE DETAIL-A/E3.01.
10. 3'x8'x3/4" FIRERATED BACKBOARD.
11. DIV. 16 CONTRACTOR SHALL INSTALL CAT 6A CABLE BETWEEN THE EV VALVE ON ROOF DOWN INTO DATA ROOM. THE CAT 6A CABLE INSTALLATION FOR THE ENERGY VALVE CONTROL MODULE SHALL BE REVIEWED AND APPROVED (CERTIFIED) BY THE UNLV OFFICE OF INFORMATION TECHNOLOGY PRIOR TO CONNECTION TO THE DATA NETWORK.
12. PROVIDE A 750VA RACK-MOUNTED UPS FOR JACE EQUIPMENT.
13. PROVIDE A COMPLETE CODE COMPLIANT DESIGN/BUILD FIRE ALARM SYSTEM THROUGHOUT THE ENTIRE BUILDING. CONNECT ALARM, TROUBLE, AND SUPERVISORY FORM-C CONTACTS FROM THE FACP TO THE BAS/JACE FOR CAMPUS BAS MONITORING.
14. ROUTE ONE CAT-6A TO LUTRON CONTROL PANEL IN ROOM 027.
15. VERIFY DUCT SMOKE DETECTOR LOCATION.

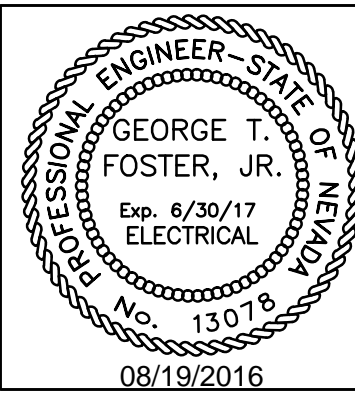
NOTE:
LOW VOLTAGE INSTALLATION SHALL MEET UNLV CAMPUS WIRING STANDARDS DATED AUGUST 26, 2015

KEYPLAN



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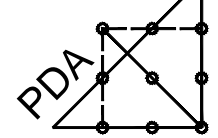
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Project

UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

PERMIT SET

REV	DATE	REVISIONS
A	08/05/16	ADDENDUM A
B	08/19/16	ADDENDUM B

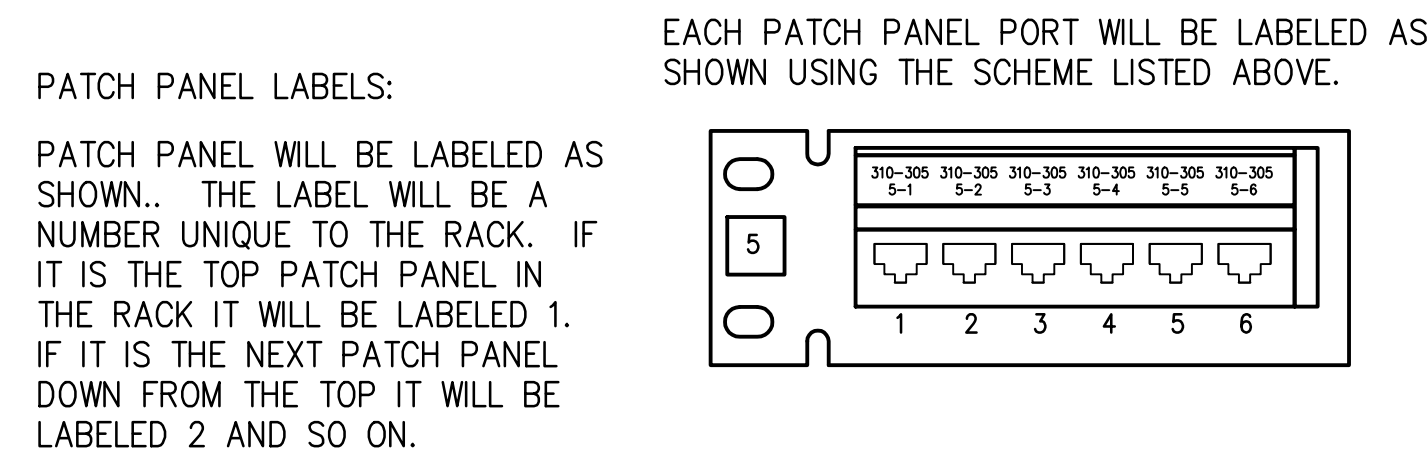
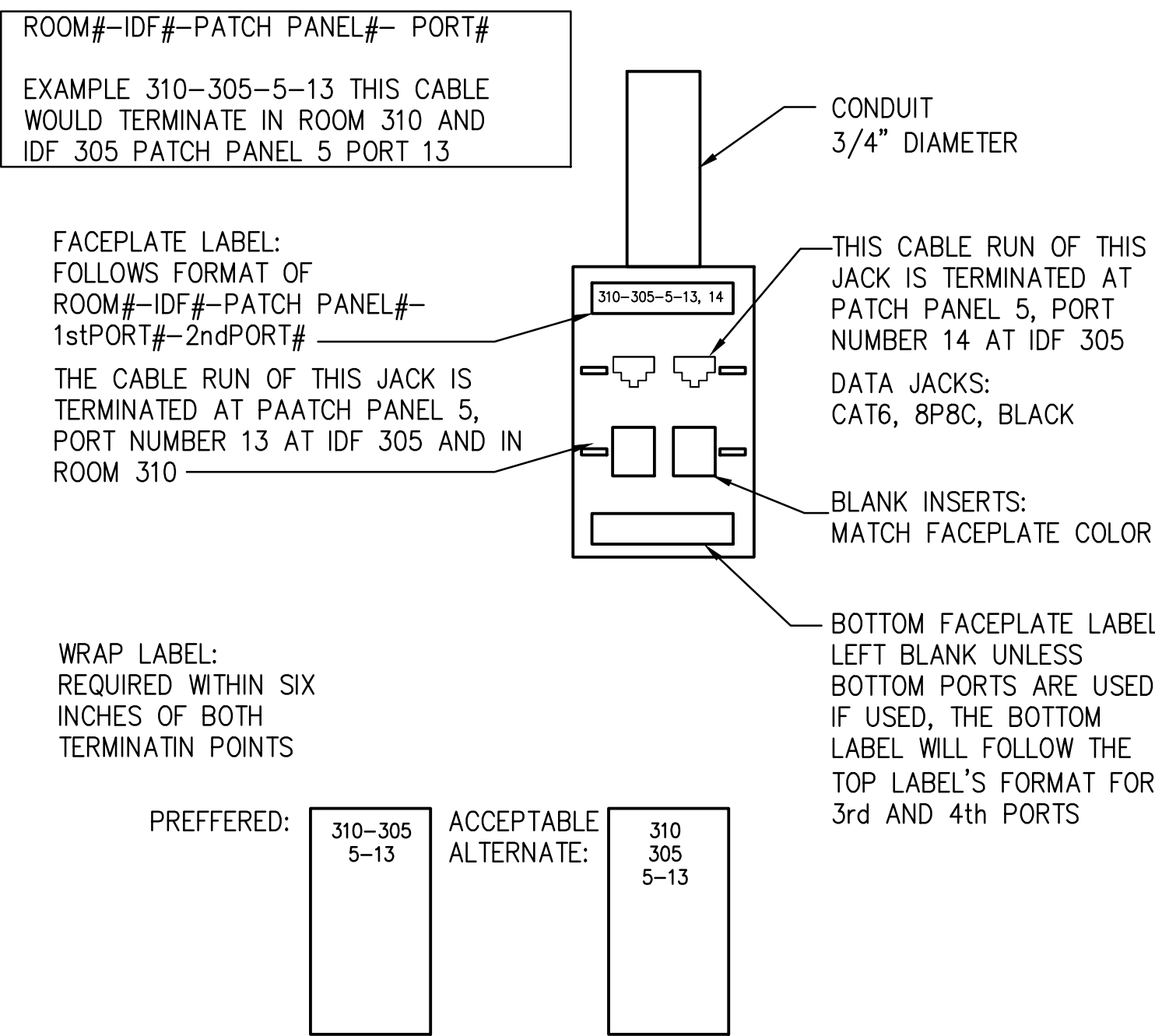
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PHASED AUXILIARY
PLANS - VIVARIUM

Date: 06/17/2016

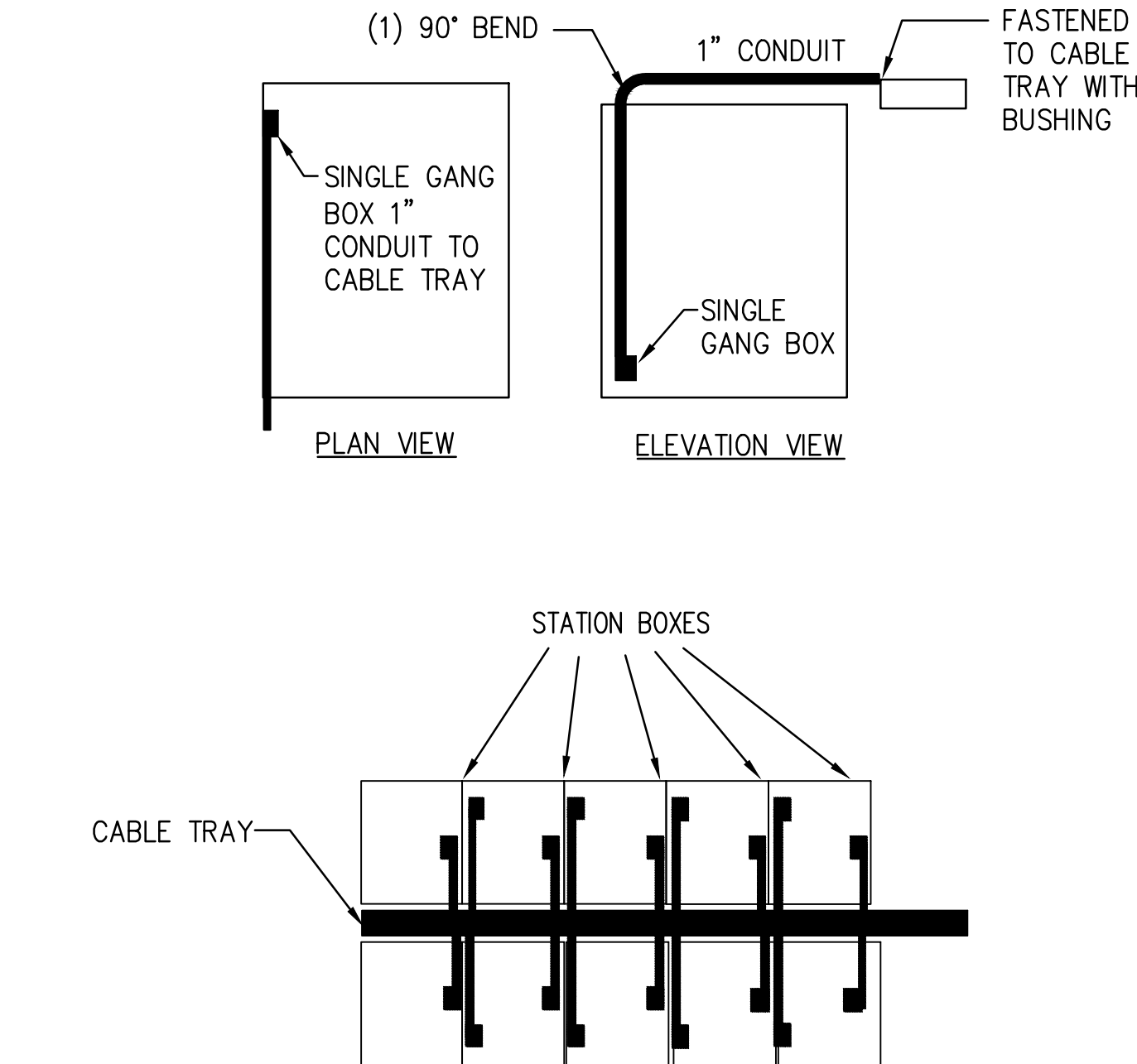
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E3.01



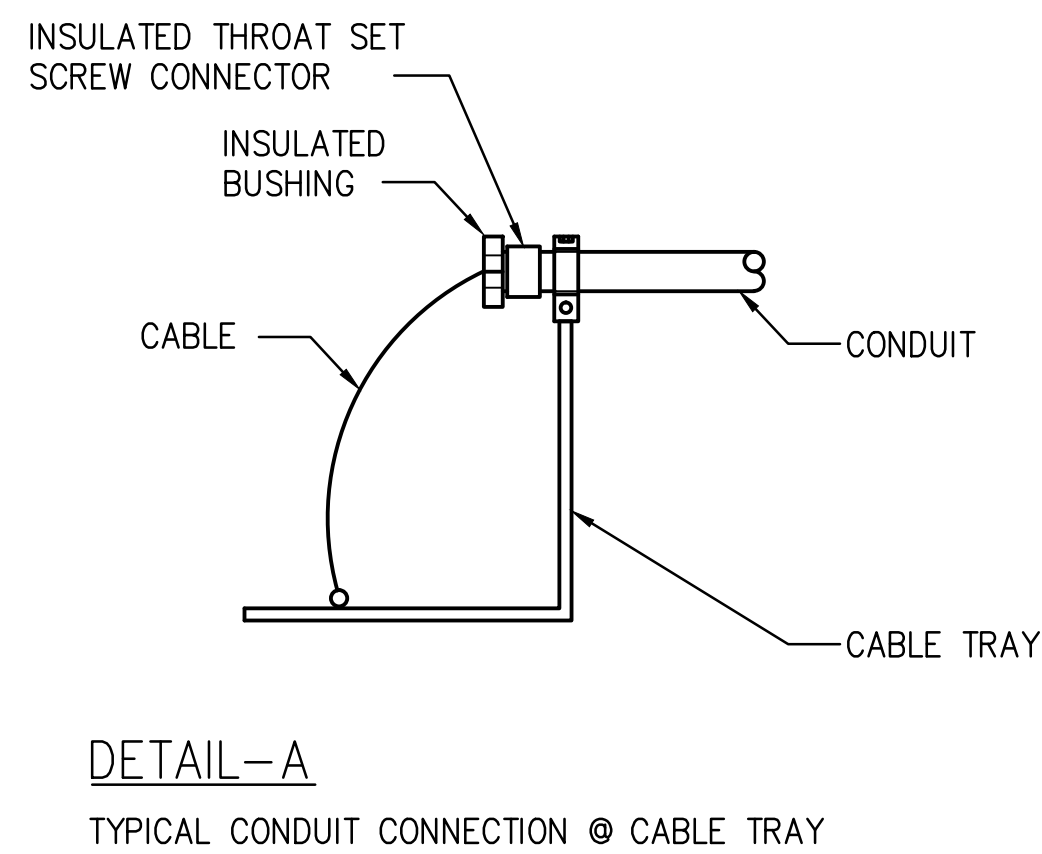
STANDARD LABEL SCHEME

SCALE: NOT TO SCALE



STANDARD CONDUIT ROUTING

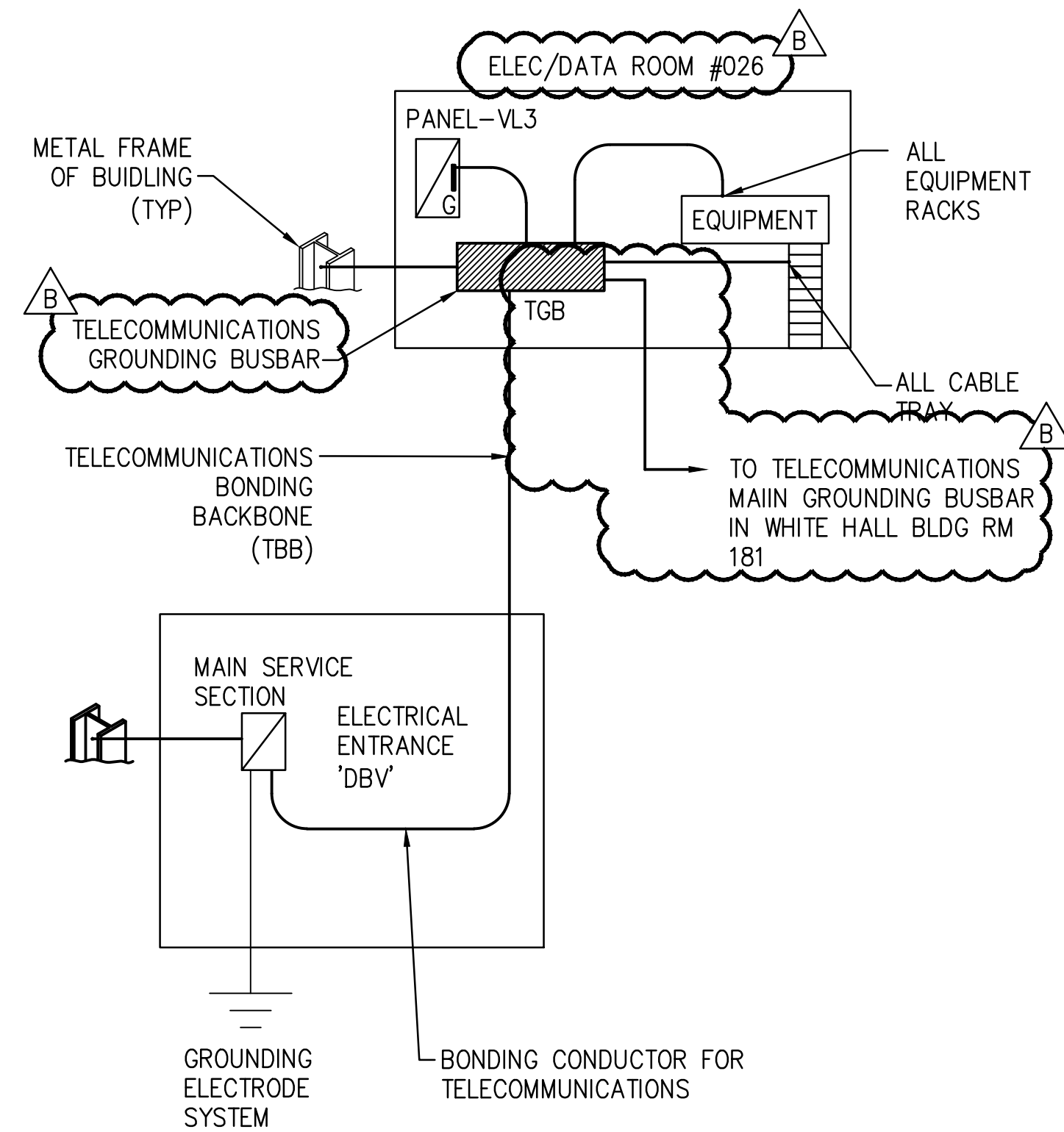
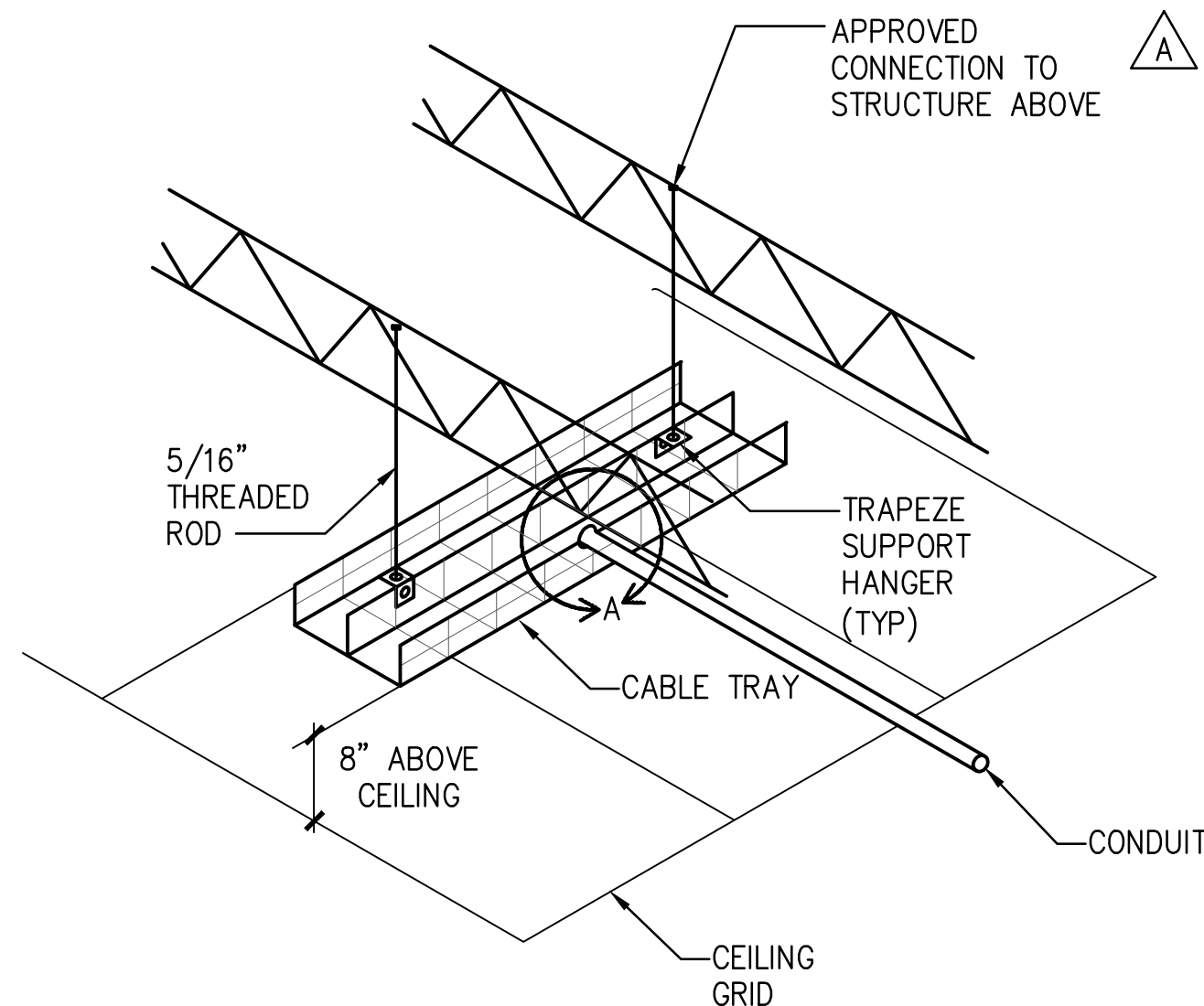
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CABLE TRAY DETAIL

SCALE: NOT TO SCALE

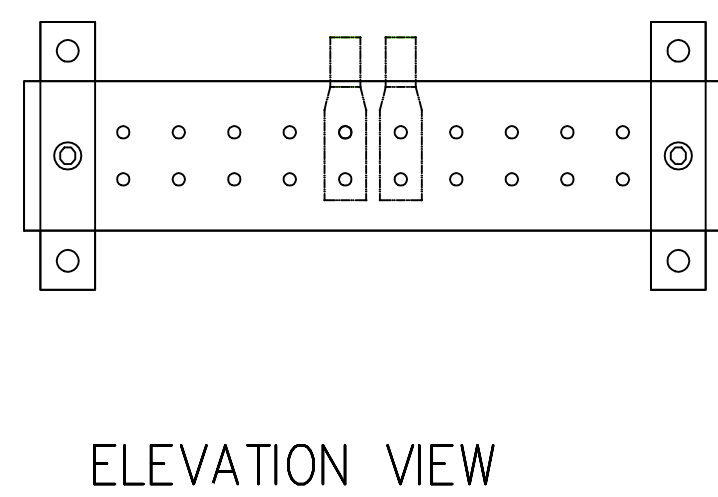
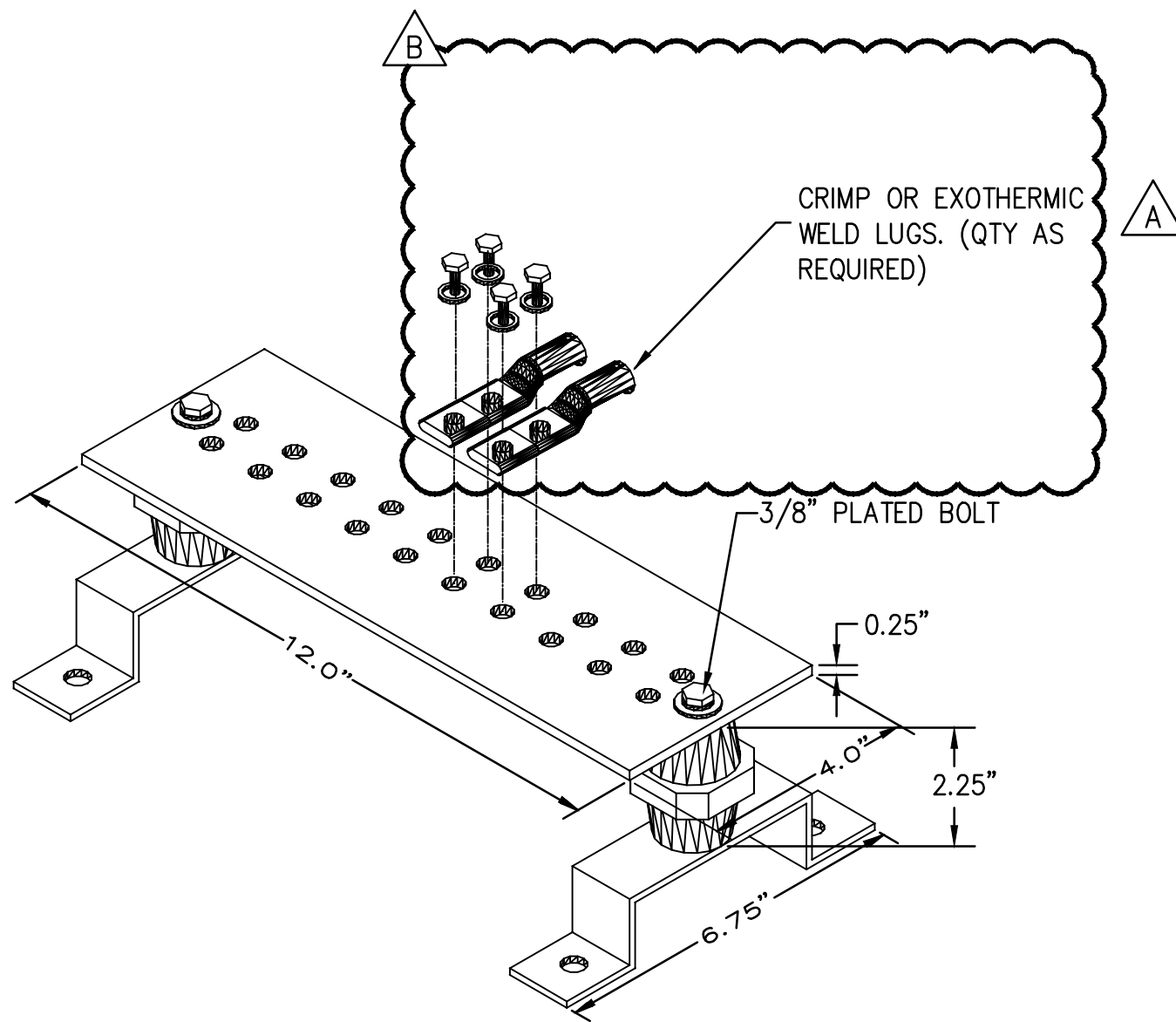
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LOW VOLTAGE GROUNDING DETAIL

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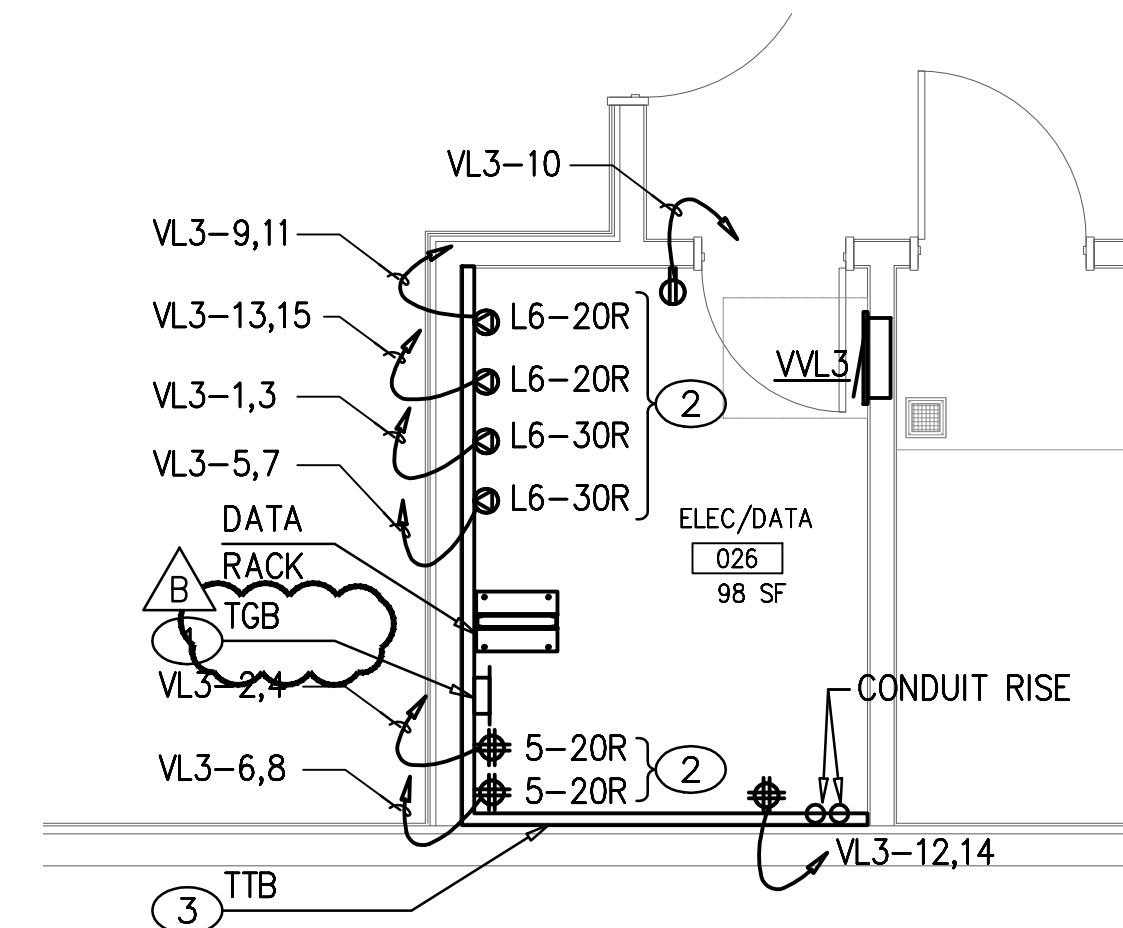
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TMGB AND TGB DETAIL

SCALE: NOT TO SCALE

REFERENCE E3.01

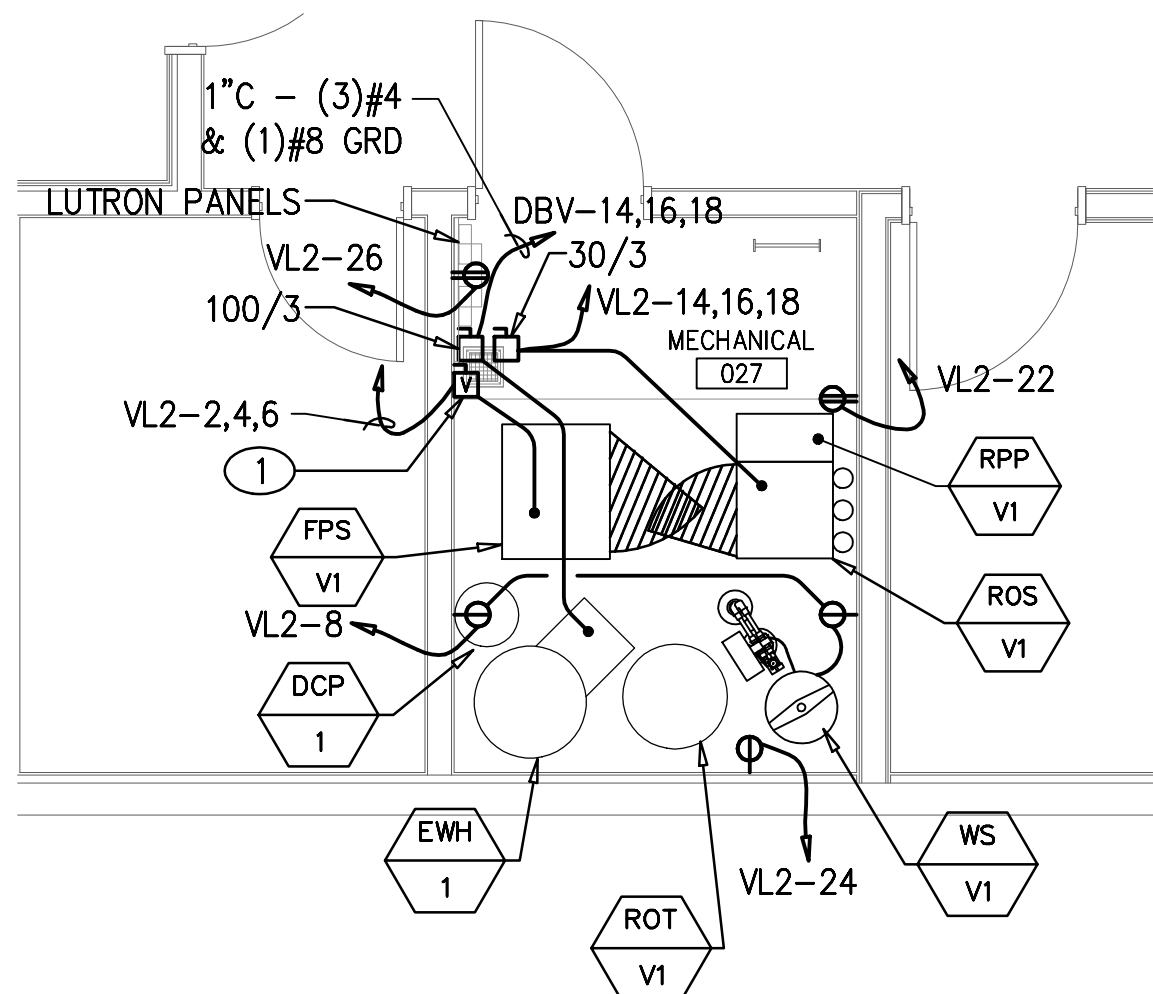


- #### KEY NOTES
- REFER TO DETAIL 5/E4.01 FOR ADDITIONAL INFORMATION.
 - THESE OUTLETS SHALL BE ORANGE COLOR AND LOCATED WITHIN 4'-0" OF THE REAR OF THE RACKS. VERIFY EXACT LOCATION AND REQUIREMENTS WITH OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN. ONE CIRCUIT PER RECEPTACLE, DO NOT SHARE NEUTRAL.
 - BACKBOARDS SHALL BE PLYWOOD 3/4"x4"x8' SHEETS, GRADE A, TREATED ON ONE SIDE WITH FIRE RESISTANT PAINT OR MATERIAL, INSTALLED WITH FINISHED SIDE EXPOSED.

ENLARGED ELEC/DATA RM ELECTRICAL PLAN

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

REFERENCE E2.01



ENLARGED MECH RM ELECTRICAL PLAN

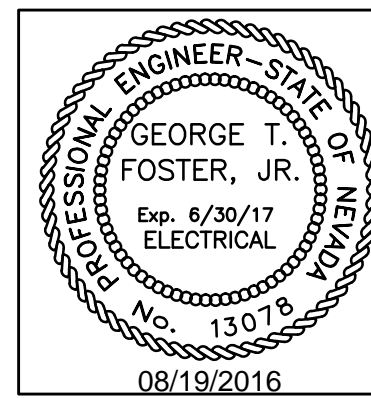
SCALE: 1/4" = 1'-0"

REFERENCE E2.01

- #### KEY NOTES
- VFD FURNISHED BY MECHANICAL CONTRACTOR, CONNECTIONS BY ELECTRICAL CONTRACTOR.

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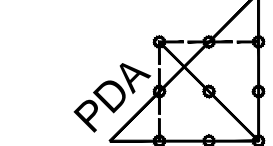
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Project

UNLV VIVARIUM

4505 SOUTH
MARYLAND PARKWAY
LAS VEGAS, NV 89154

Job No: 15-061

Owner

UNIVERSITY OF
NEVADA, LAS VEGAS

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REVISIONS	
REV	DESCRIPTION
A	08/05/16 ADDENDUM A
B	08/19/16 ADDENDUM B

Sheet Title

DETAILS

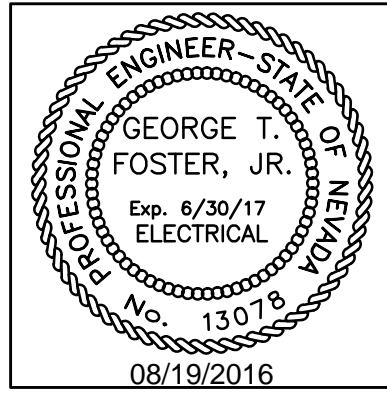
Date: 06/17/2016

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E4.01

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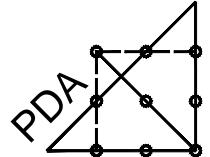
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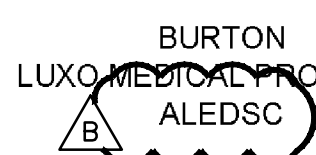


Sheet Title

SCHEDULES

Date: 06/17/2016

Sheet No:

E6.03
ADDED ENTIRE SHEET

PROJECT NUMBER: 16001										LIGHTING FIXTURE SCHEDULE										Professional Design Associates, Inc.									
PROJECT NAME: UNLV VIVARIUM																				17-Aug-16									
FIXTURE TYPE	VOLTS	F L U O R	S L I D	MOUNTING	LAMP (S)	CONTROL MEDIA (LENS, LOUVER,ETC.)	MANUFACTURER'S CATALOG NUMBER				DESCRIPTION / REMARKS																		
A	120 277		X		REC	23 W RED LED 45 W 5000K LED	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-22-23R/45L-50K8-DCC-DV-5F-2H-SYM				SEALED AIR-TIGHT FIXTURE WITH OVERLAPPING DOOR IP65 RATED 630nm RED LED FOR VIVARIUM ENVIRONMENT LUTRON "H" SERIES DRIVER 2 X 2 RECESSED																	
B	120 277		X		REC	23 W RED LED 45 W 5000K LED	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-14-23R/45L-50K8-DCC-DV-5F-2H-SYM				SEALED AIR-TIGHT FIXTURE WITH OVERLAPPING DOOR IP65 RATED 630nm RED LED FOR VIVARIUM ENVIRONMENT 1 X 4 RECESSED																	
C	120 277		X		REC	67 W LED 5000K	SYMMETRIC DIFFUSED DR ACRYLIC	KENALL CSEDO-24-67L50K-DCC-DV-5F-2H-SYM				SEALED AIR-TIGHT FIXTURE WITH OVERLAPPING DOOR IP65 RATED 2 X 4 RECESSED																	
D	120 277		X		WALL	26 W LED 5000K	IMPACT RESISTANT TEMPERED GLASS	EATON XTOR3A				MOUNT AT 9'-0" AFF 																	
E	120 277		X		REC	45 LED		EATON - PORTFOLIO LD6A3DD010TE ERW6A30840 6LW1LI				6 INCH RECESSED DOWNLIGHT WIDE DISTRIBUTION WITH SPECULAR CLEAR TRIM																	
F	120 277		X		SURGERY LIGHT	84W LED		 BURTON LUXQ MEDICAL PRODUCTS ALEDSCL				 DIM LED SINGLE CEILING																	
G	120 277		X		SURFACE	45W LED 5000K		SIMPLE SEAL CSES014-45L50K-DCC-1-DV-2F-2H-SYM				SEALED AIR TIGHT FIXTURE 1X4 SURFACE																	
X	120 277		X		CEILING	4.6W LED	RED LETTER WITH WHITE BACKGROUND	EATON EEX-6-1/2-R				LED EXIT SIGN 																	

PROJECT #: 16001										Professional Design Associates, Inc.
PROJECT NAME: UNLV VIVARIUM										17-Aug-16
TRANSFORMER DESIGNATION	KVA RATING	PRIMARY VOLTAGE	SECONDARY VOLTAGE	MATERIAL (WINDINGS)	DEGREE C TEMP. RISE	MOUNTING METHOD	ENCLOSURE TYPE	GROUND SIZE NEC 250	REMARKS	
TL1	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		
TL2	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		
TL3	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		
TL4	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		
TL5	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		
TL6	2	120-1Ø	24-1Ø	COPPER	115	WALL	INDOOR	N/A		