

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE

MESCALERO SERVICE UNIT  
MESCALERO, NEW MEXICO

ISSUE FOR CONSTRUCTION JULY 20, 2018  
MESCALERO SERVICE UNIT  
RENOVATION & ADDITION

DRAWING INDEX

STRUCTURAL			ARCHITECTURAL			MECHANICAL			MECHANICAL			ELECTRICAL		
G-1 G-2 G-3	COVER SHEET SYMBOLS / LEGENDS / ABBREVIATIONS CODE COMPLIANCE / REVIEW	C-9 S-1 S-2 S-3 S-4 S-5 S-6 S-7	CIVIL DETAILS GENERAL STRUCTURAL NOTES GENERAL STRUCTURAL DETAILS FOUNDATION PLAN FRAMING PLAN ELEVATIONS FOUNDATION SECTIONS ROOF FRAMING SECTIONS	A-6 A-7 A-8 A-9 A-10 A-11 A-12 A-13 A-14	NOT USED ROOF DETAILS EXTERIOR ELEVATIONS EXTERIOR DETAILS EXTERIOR DETAILS EXTERIOR PERSPECTIVES BUILDING SECTIONS WALL SECTIONS INTERIOR ELEVATIONS - PATIENT REGISTRATION	DP-1 FP-1 FP-2 P-1 P-2 P-3 P-4 P-5 P-6 P-7	DEMO PLUMBING PLAN FIRE PROTECTION PLAN FIRE PROTECTION PLAN PLUMBING SYMBOLS, LEGEND AND GENERAL NOTES PLUMBING WATER PLAN- SECTION 1 PLUMBING WATER PLAN-SECTION 2 PLUMBING WASTE PLAN-SECTION 1 PLUMBING WASTE PLAN-SECTION 2 PLUMBING ROOF PLAN PLUMBING ENLARGED PLAN - DEMO WORK	DM-1 M-1 M-2 M-3 M-4 M-5 M-6 M-7 M-8 M-9 M-10 DE-1 DE-2 DSP-1	MECHANICAL DEMO MECHANICAL SYMBOLS & LEGEND MECHANICAL GENERAL NOTES MECHANICAL PLAN - SECTION 1 MECHANICAL PLAN - SECTION 2 MECHANICAL ROOF PLAN MECHANICAL ENLARGED PLANS MECHANICAL DETAILS MECHANICAL SCHEDULES MECHANICAL CONTROLS MECHANICAL CONTROLS RECEPTACLE DEMO PLAN LIGHTING DEMO PLAN SPECIAL SYSTEMS DEMO PLAN	E-3 E-4 E-5 E-6 E-7 E-8 E-9 E-10 E-11 E-11A E-11B E-12 E-13 LP-1 LP-2	PARTIAL ELECTRICAL POWER PLAN RECEPTACLE PLAN - SECTION 1 RECEPTACLE PLAN - SECTION 2 MECHANICAL/ ELECTRICAL FLOOR PLAN LIGHTING PLAN - SECTION 1 LIGHTING PLAN - SECTION 2 HVAC ROOF POWER PLAN ENLARGED ELECTRICAL PLANS PARTIAL POWER ONE - LINE DIAGRAM PARTIAL POWER ONE - LINE DIAGRAM SECTION ELECTRICAL DETAILS ELECTRICAL SCHEDULES LIGHTNING PROTECTION PLAN LIGHTNING PROTECTION DETAILS			
DC-1 C-1 C-2 C-3 C-4 C-5 C-6 C-7 C-8	SITE TOPOGRAPHY & DEMOLITION PLAN CIVIL GENERAL NOTES TOPOGRAPHIC SURVEY SITE DEVELOPMENT PLAN SITE GRADING AND DRAINAGE PLAN SITE UTILITIES PLAN DRAINAGE PLAN CIVIL DETAILS CIVIL DETAILS	DA-1 A-1 A-2 A-3 A-4 A-5	ARCHITECTURAL - DEMOLITION PLAN ARCHITECTURAL - FLOOR PLAN DIMENSIONED PLAN & WALL PROTECTION SECOND FLOOR PLAN / ARCHITECTURAL ROOF ARCHITECTURAL - REFLECTED CEILING PLAN PARTITION TYPES & RCP DETAILS	A-15 A-16 A-17 A-18 A-19 A-20 I-1 I-2	INTERIOR ELEVATIONS - LABORATORY INTERIOR ELEVATIONS - PRIMARY CARE INTERIOR ELEVATIONS - PHARMACY IT, RADIOLOGY, BIO MED RENOVATION INTERIOR DETAILS DOOR AND OPENING SCHEDULES INTERIOR FINISH SCHEDULE AND DETAILS SIGNAGE & WAYFINDING	P-8 P-9 P-10 P-11 P-12 P-13 P-14	PLUMBING ENLARGED PLAN PLUMBING ENLARGED PLAN PLUMBING DETAILS PLUMBING DETAILS PLUMBING WASTE & VENT DIAGRAM PLUMBING WATER RISER DIAGRAM PLUMBING SCHEDULE	E-1 E-2 E-2A	ELECTRICAL SYMBOLS & LEGEND ELECTRICAL DETAILS HEAT TRACE PLAN	SP-1 SP-2 SP-3 SP-4 SP-5 SP-6 SP-7	SPECIAL SYSTEMS PLAN / SECTION 1 SPECIAL SYSTEMS PLAN - SECTION 2 ADMIN OFFICE/ BSMNT / FIRST FLOOR FIRE ALARM PLAN FACP DETAILS BATTERY CALCS/ VOLTAGE DROPS / RISER DIAGRAM ADMIN / ELEVATOR RM FIRST FLOOR ACCESS/ SEC. PLAN ACCESS / SEC/ DETAILS			

PROJECT TEAM

PROJECT TEAM

ARCHITECT

INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC  
P.O. BOX 16657  
ALBUQUERQUE, NM 87191  
PH. 505.226.2565  
CONTACT: JAN TIFREA, AIA

CIVIL ENGINEER

FORSQREN  
6100 INDIAN SCHOOL RD., SE, STE 205  
ALBUQUERQUE, NM 87110  
PH. 505.814.2796  
CONTACT: KENT DELPH, PE

STRUCTURAL ENGINEER

QUIROGA-PHEIFFER ENGINEERING  
6621 GILTON COURT NE  
ALBUQUERQUE, NM 87109  
PH. 505.858.1456  
CONTACT: RICHARD PFEIFFER PE

MECHANICAL / ELECTRICAL / PLUMBING

ROCK GAP ENGINEERING  
6759 ACADEMY RD. NE  
ALBUQUERQUE, NEW MEXICO 87109  
PH. 505.344.2366  
CONTACT: KEITH KEETSO, P.E.

MARK	DATE	DESCRIPTION
0	JULY 20, 2018	ISSUE FOR CONSTRUCTION
1	AUGUST 23, 2018	AMENDMENT 01
2	OCTOBER 14, 2021	AMENDMENT 02
APPROVED		ARCHITECTURAL
		MECHANICAL
		ELECTRICAL
		PLUMBING
STAMP		
INDIGENOUS DESIGN STUDIO + ARCHITECTURE, LLC 3737 Phoenix Dr. NE, Suite 100 Albuquerque, NM 87110 Tel: 505.226.2565 Fax: 505.226.2566		
INDIAN HEALTH SERVICE		
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		
MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86003 OTERO COUNTY		
RENOVATION & ADDITION		
COVER SHEET		
DRWN BY		
CHKD BY		
SCALE 1/4" = 1'-0"		
DATE JULY 20, 2018		
G-1		
PROJECT NUMBER 117043		
SHEET of		

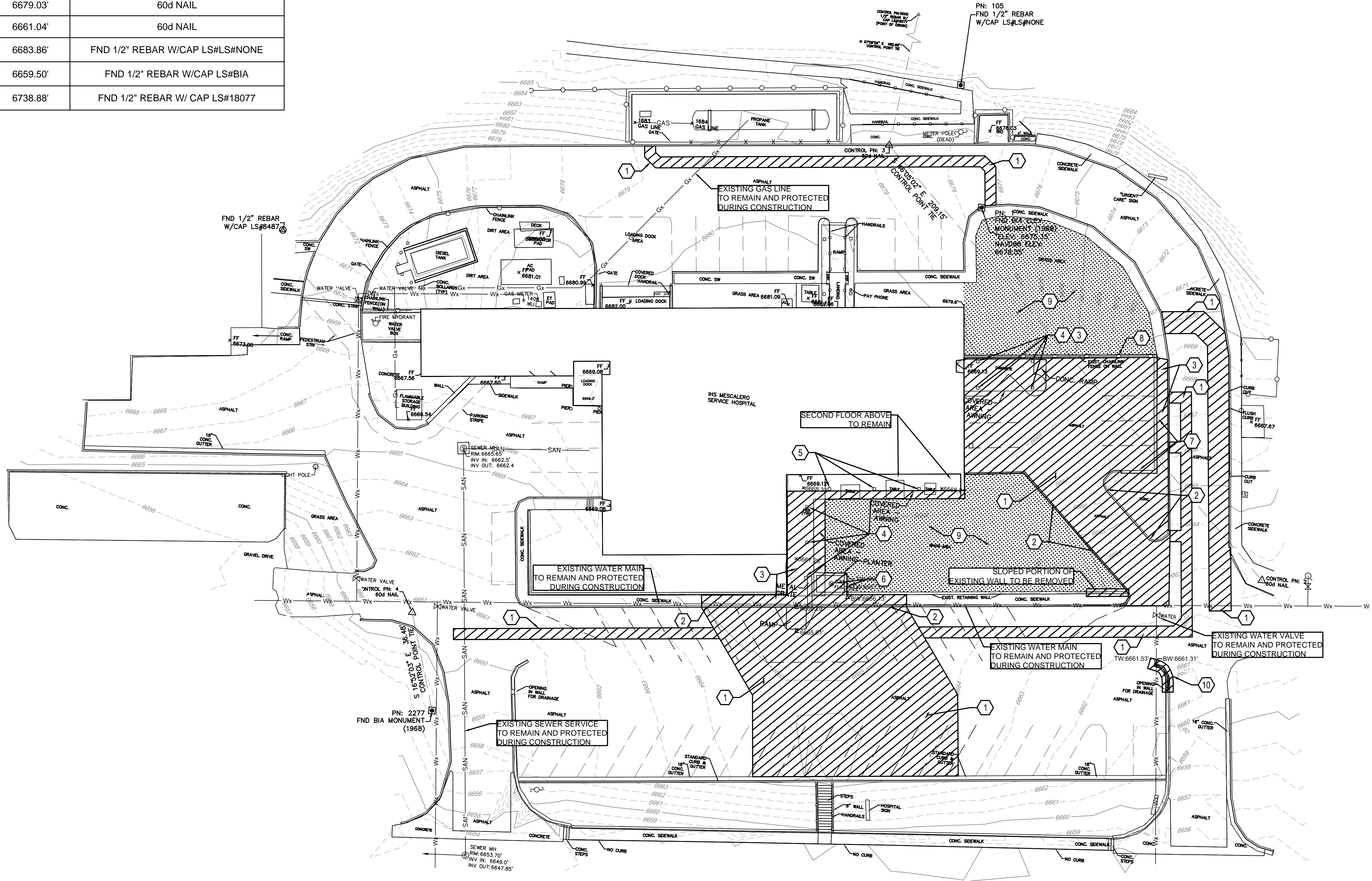


BASIS OF BEARINGS

OPUS STATIC SOLUTION ON POINT #5000.  
COORDINATES GIVEN ARE MODIFIED STATE PLANE COORDINATES (NEW MEXICO CENTRAL ZONE)  
POINT #5000 WAS USED TO SCALE ALL POINTS FROM GRID TO GROUND  
AT A PROJECT HEIGHT OF 6600 FEET.  
ORIGIN POINT LATITUDE: N33°09'37.33528"  
ORIGIN POINT LONGITUDE: W105°46'19.67675"  
ORIGIN POINT ORTHOMETRIC HEIGHT: 6738.88'  
GRID TO GROUND SCALE FACTOR: 1.00039062853535

CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	785712.40'	1786629.06'	6678.05'	FND 1/2" REBAR W/CAP LS#BIA
2	785586.78'	1786743.97'	6663.76'	60d NAIL
3	785731.84'	1786593.31'	6679.03'	60d NAIL
4	785545.42'	1786436.38'	6661.04'	60d NAIL
105	785756.19'	1786617.23'	6683.86'	FND 1/2" REBAR W/CAP LS#NONE
2277	785510.51'	1786446.97'	6659.50'	FND 1/2" REBAR W/CAP LS#BIA
5000	786210.75'	1786653.40'	6738.88'	FND 1/2" REBAR W/ CAP LS#18077



Site Topography & Demolition Plan

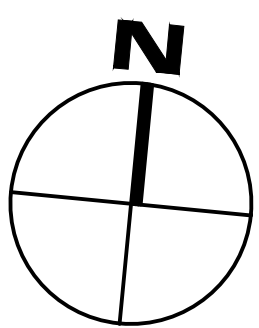
SCALE: 1" = 20'

KEYED NOTES:

1. DEMO EXISTING ASPHALT
2. REMOVE EXISTING CURB & GUTTER
3. REMOVE EXISTING CONCRETE SIDEWALK
4. REMOVE EXISTING AWNING AND COLUMNS AS SHOWN
5. EXISTING 3 COLUMNS AND SECOND FLOOR ABOVE TO REMAIN AND TO BE PROTECTED DURING DEMOLITION
6. REMOVE EXISTING FLAGPOLE, BASE, AND SURROUNDING WALL
7. REMOVE EXISTING RETAINING WALL
8. EXISTING RETAINING WALL TO REMAIN AND TO BE PROTECTED DURING DEMOLITION
9. REMOVE EXISTING GRASS AND SOIL TO 3" DEEP
10. REMOVE EXISTING CONCRETE WALL AT PARKING ENTRANCE & EXIT - TO DRAINAGE OPENING

LEGEND

- ITEM TO BE REMOVED
- REMOVE EXISTING GRASS & SOIL



GRAPHIC SCALE

0' 10' 20' 40' 60'  
Scale: 1"=20'

FORSGREN Associates, Inc.  
REGISTERED PROFESSIONAL ENGINEER  
13309  
NEW MEXICO  
1-10-19  
6100 Indian School Road, NE, STE. 202, ALBUQUERQUE, NM 87110  
PH: 505.814.2798  
FAX: 505.814.2877

INDIAN HEALTH SERVICE  
SINCE 1955

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY  
RENOVATION & ADDITION  
Site Topography & Demolition Plan

DRWN BY  
L.S.  
CHKD BY  
KD  
SCALE  
AS SHOWN ON PLAN  
DATE  
DC-1  
PROJECT NUMBER  
117043  
SHEET X of X



A. GENERAL

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE AND LOCATION OF ALL UNDERGROUND OR CONCEALED UTILITIES IN ADVANCE OF ANY CONSTRUCTION.
2. THE JOB SITE, AT THE COMPLETION OF CONSTRUCTION, SHALL BE CLEANED OF ANY DEBRIS OR SPOILS RESULTING FROM THE ALL CONSTRUCTION ACTIVITIES. CONTRACTOR TO ALSO CONDUCT DAILY CLEANUP OF DEBRIS OR SPOILS TO MAINTAIN SAFE AND CLEAN CONSTRUCTION SITE.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO FAMILIARIZE HERSELF/HIMSELF WITH ALL THE EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS.
4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
5. THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE PROJECT MANAGER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY.
6. EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
7. EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE. IF THE CONTRACTOR WOULD LIKE TO REMOVE FENCING TO FACILITATE CONSTRUCTION OPERATIONS, THIS MAY BE DONE WITH THE OWNER'S PERMISSION, AND THE CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION PRIOR TO THE CLOSE OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS REPLACED.
8. ALL EXISTING MAINLINE UTILITIES ARE TO REMAIN IN PLACE AND ARE TO BE PROTECTED DURING DEMOLITION AND CONSTRUCTION UNLESS OTHERWISE NOTED.
9. NEITHER THE OWNER, PROJECT MANAGER, NOR THE ARCHITECT OR ENGINEER OF RECORD WILL ENFORCE ANY SAFETY MEASURE OR REGULATION. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING TRAFFIC CONTROL, SHORING, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS. IF ANYONE IN A AUTHORITY OR SUPERVISORY POSITION SEES ANYTHING WRONG OR A SERIOUS LIFE THREATENING SITUATION CAUSED BY THE CONTRACTOR, THAT PERSON SHALL HAVE THE RIGHT TO STOP THE JOB AND DEMAND THAT THE CONTRACTOR IMMEDIATELY CORRECTS THE WRONG-DOING.
10. CONTRACTOR WILL BE RESPONSIBLE FOR ANY MONUMENTATION AND/OR BENCHMARKS WHICH WILL BE DISTURBED OR DESTROYED BY CONSTRUCTION. SUCH POINTS SHALL BE REFERENCED AND REPLACED WITH APPROPRIATE MONUMENTATION BY A NEW MEXICO LICENSED LAND SURVEYOR.
11. ANY WORK DONE WITHOUT INSPECTION OR TESTING IS SUBJECT TO REMOVAL OR CORRECTION. THE CONTRACTOR SHALL PROVIDE A SIGNED DOCUMENT SHOWING PROOF OF INSPECTION AND/OR TESTING.
12. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL HE/SHE BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK OR THE CONSTRUCTION PROCEDURES AND SAFETY PROCEDURES FOLLOWED BY THE CONTRACTOR OR THE SUBCONTRACTOR OR THEIR RESPECTIVE EMPLOYEES OR BY ANY OTHER PERSON AT THE JOB SITE OTHER THAN THAT OF THE ENGINEER'S EMPLOYEES.
13. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY 24 HOURS A DAY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, PROJECT MANAGER AND ENGINEER HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON HIS/HER PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF HIS WORK FROM RAINFALL, STORM DRAINAGE, OR FLOOD SO THAT IT DOES NOT DELAY CONSTRUCTION OR DAMAGE COMPLETED WORK OR DOWNSTREAM PROPERTIES THROUGHOUT CONSTRUCTION.
15. COMPACT FILL TO 95% PER ASTM D 1557 AND SUBGRADE TO 95% PER ASTM D 1557.

B. PAVING

1. ALL PARKING LOT STRIPING SHALL BE 4" WIDE STRIPES UNLESS OTHERWISE NOTED.
2. WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAWCUT EXISTING PAVEMENT TO A NEAT STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW TO EXISTING. TACK COAT EXISTING PAVEMENT PRIOR TO PLACING PAVEMENT.
3. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED AND APPROVED PRIOR TO PAVING.
4. ALL EXISTING WATER VALVE BOXES, ELECTRICAL, TELEPHONE, COMM. IT AND SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED GRADE.
5. ALL SLOPES AND GRADES ARE IN FEET/FOOT UNLESS OTHERWISE NOTED.
6. ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE, FIRM, SLIDE-RESISTANT, AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.
7. LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:20. CROSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.
8. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR THE DURATION OF THE PROJECT.
9. THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES.

C. UTILITIES

1. ALL UTILITY WORK SHALL CONFORM WITH THE "AAIHS / OEHE SANITATION FACILITIES CONSTRUCTION TECHNICAL PROVISIONS" 2012 EDITION, AND ALL SUBSEQUENT AMENDMENTS AND PROVISIONS.
2. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED TO THE ENGINEER BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK.
3. THE EXISTING UTILITIES DEPICTED ON THESE PLANS WERE DERIVED FROM INFORMATION PROVIDED TO THE ENGINEER BY OWNER. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF PERTINENT UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES.
4. CONTRACTOR SHALL EXPOSE AND VERIFY INVERT ELEVATIONS OF RELEVANT SANITARY SEWER LINES BEFORE SETTING ANY NEW INVERTS. SHOULD INVERTS DIFFER MORE THAN 0.20' FROM THOSE SHOWN ON THE PLANS OR SHOULD EXIST TO PRESENT A CONFLICT WITH THE INTENT ON PLAN, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE ANY RESULTING CHANGES IN DESIGN.
5. REFERENCE MADE TO APWA REFERS TO AMERICAN PUBLIC WORKS ASSOCIATION.
6. THE CONTRACTOR SHALL NOTIFY ALL APPLICABLE UTILITY COMPANIES AND COORDINATE UTILITY LINE SPOTS AT LEAST SEVEN (7) WORKING DAYS PRIOR TO ANY DIGGING OR EXCAVATION.

DESCRIPTION		DATE	MARK	STAMP	REGISTERED PROFESSIONAL ENGINEER NEW MEXICO 13939 7-1-2018	FORSGREN <i>Associate Inc.</i> 6100 INDIAN SCHOOL RD NE STE. 205 ALBUQUERQUE, NM 87110 PH 505.844.2798 FAX 505.844.2877	CONSULTANT DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	INDIAN HEALTH SERVICE 1955	Mescalero Service Unit 318 Abalone Loop Mescalero, NM 86503 Otero County RENOVATION & ADDITION Civil General Notes	DRWN BY t.s.
ISSUED FOR CONSTRUCTION		JULY 27, 2018	APPROVED	CHKD BY KD						
ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING	SCALE AS SHOWN ON PLAN						
C-1										
PROJECT NUMBER 117043										
SHEET X of X										

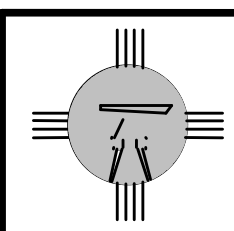
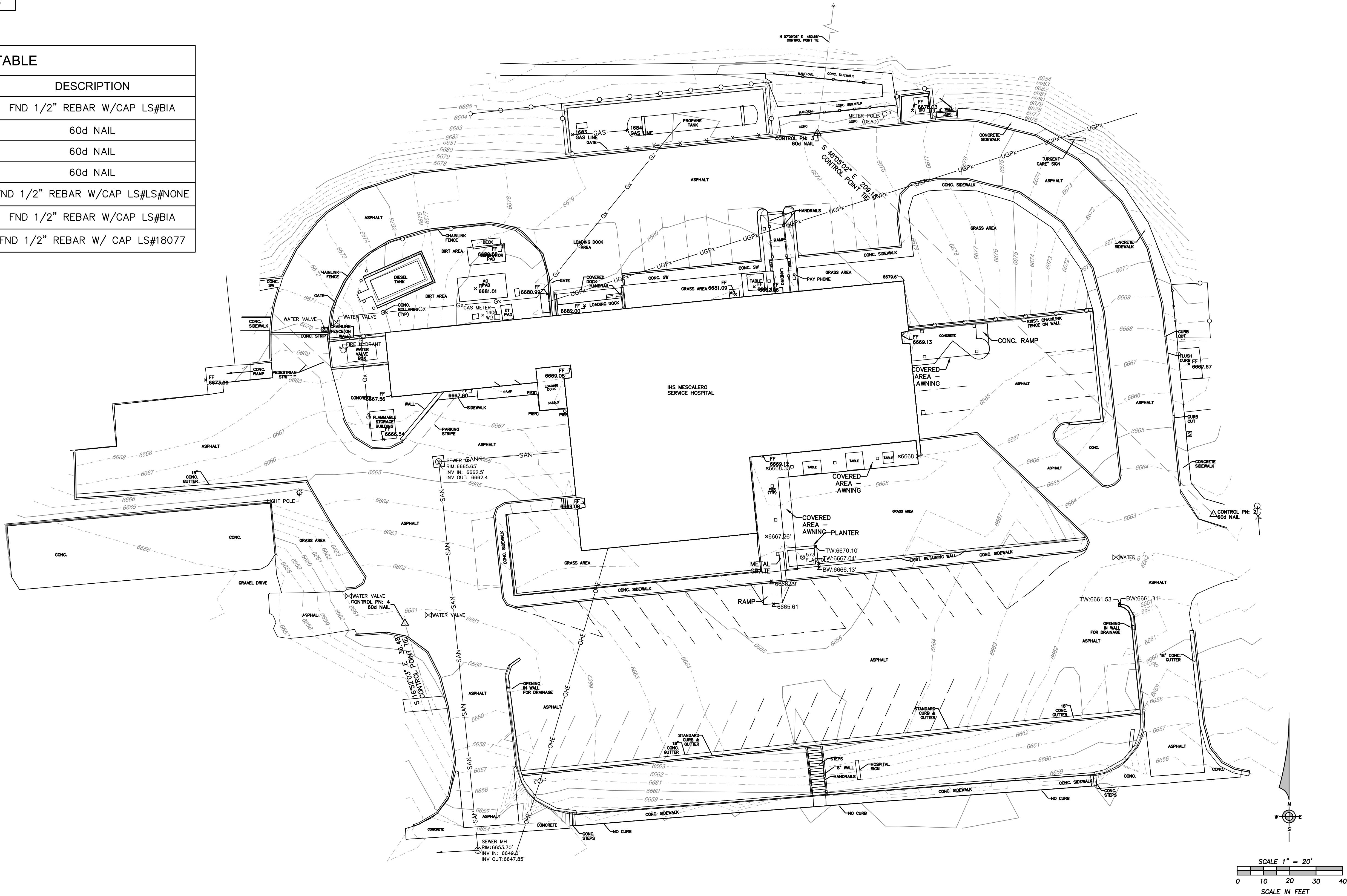


BASIS OF BEARINGS  
OPUS STATIC SOLUTION ON POINT #5000.  
COORDINATES GIVEN ARE MODIFIED STATE PLANE  
COORDINATES (NEW MEXICO CENTRAL ZONE)  
POINT #5000 WAS USED TO SCALE ALL POINTS FROM  
GRID TO GROUND  
AT A PROJECT HEIGHT OF 6600 FEET.  
ORIGIN POINT LATITUDE: N33°09'37.33528"  
ORIGIN POINT LONGITUDE: W105°46'19.67675"  
ORIGIN POINT ORTHOMETRIC HEIGHT: 6738.88'  
GRID TO GROUND SCALE FACTOR: 1.00039062853535

CONTROL POINT TABLE				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	785712.40'	1786629.06'	6678.05'	FND 1/2" REBAR W/CAP LS#BIA
2	785586.78'	1786743.97'	6663.76'	60d NAIL
3	785731.84'	1786593.31'	6679.03'	60d NAIL
4	785545.42'	1786436.38'	6661.04'	60d NAIL
105	785756.19'	1786617.23'	6683.86'	FND 1/2" REBAR W/CAP LS#NONE
2277	785510.51'	1786446.97'	6659.50'	FND 1/2" REBAR W/CAP LS#BIA
5000	786210.75'	1786653.40'	6738.88'	FND 1/2" REBAR W/ CAP LS#18077

NOTE: THIS IS NOT A BOUNDARY SURVEY.  
TOPOGRAPHY CONSTRUCTED FROM FIELD WORK COMPLETED WITH A  
COMBINATION OF GPS AND TOTAL STATION SHOTS.

TOPOGRAPHY AND IMPROVEMENTS  
IHS MESCALERO SERVICE HOSPITAL  
LOCATED IN SECTION 37,  
TOWNSHIP 13 SOUTH, RANGE 12 EAST, N.M.P.M.,  
MESCALERO INDIAN RESERVATION,  
OTERO COUNTY, NEW MEXICO



D.T. COLLINS & ASSOCIATES P.C.  
SURVEYING, MAPPING  
1042 MECHEM DR. 575-258-5272  
RUIDOSO, LINCOLN COUNTY, NEW MEXICO

SCALE: 1"=20'  
DATE: 01/16/18  
DRAWN BY: EEC  
CHECKED BY: EEC  
JOB NO: 07-1081  
SHEET: 1 OF 1

DESCRIPTION

DATE

MARK

STAMP

REGISTERED PROFESSIONAL ENGINEER

FORSGREN Associates, Inc.

6100 Indian School Road NE, Ste. 200, Albuquerque, NM 87110  
PH: 505.844.2796

INDIAN HEALTH SERVICE

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY  
RENOVATION & ADDITION  
TOPOGRAPHIC SURVEY

DRWN BY  
L.S.  
CHKD BY  
KD  
SCALE  
AS SHOWN ON PLAN  
DATE

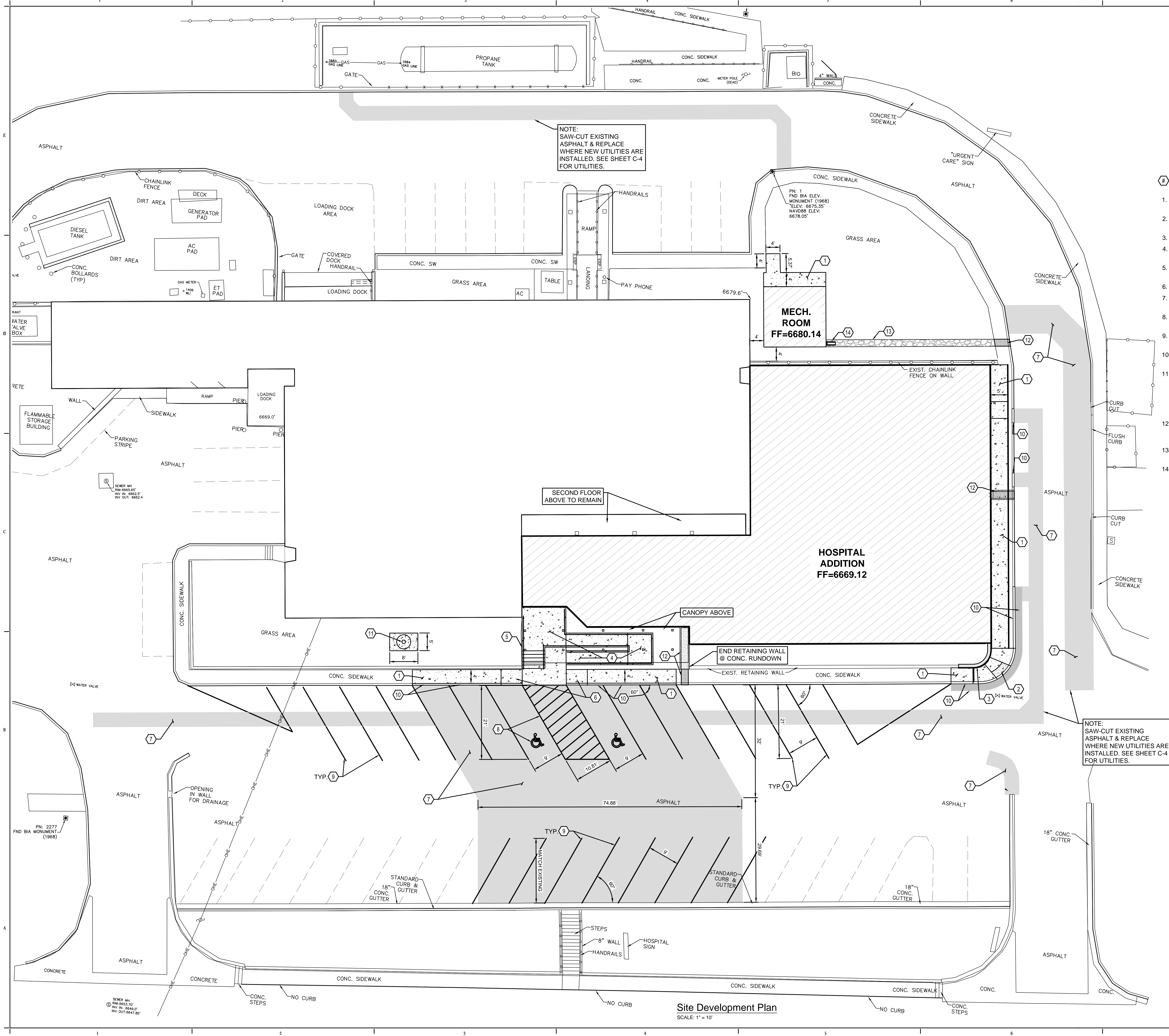
C-2

PROJECT NUMBER  
117043

SHEET X of X



P:\06-17-0131 - Mesalero Hospital\CAD\Sheets\Civil\C-3.dwg - 7/9/2018 10:10 AM



- # SITE KEYED NOTES:
- CONSTRUCT CONCRETE SIDEWALK PER DETAIL 1, SHEET C-7.
  - CONSTRUCT HANDICAP ACCESS RAMP PER DETAIL 5, SHEET C-7.
  - CONSTRUCT RETAINING WALL PER STRUCTURAL.
  - CONSTRUCT HANDICAP RAMP STRUCTURE, FOR SPOT ELEVATIONS SEE DETAIL 6, SHEET C-7.
  - CONSTRUCT STAIR STRUCTURE WITH RAILING PER DETAIL 6, SHEET C-7 AND DETAIL 2 & 3, SHEET C-8
  - CONSTRUCT ACCESS RAMP PER DETAIL 6, SHEET C-7.
  - SAWCUT, REMOVE & REPLACE EXISTING ASPHALT PER PAVEMENT DETAILS 3 AND 4, SHEET C-7.
  - PROVIDE HANDICAP STRIPING PER DETAILS 7, 8, AND 9, SHEET C-7.
  - RE-STRIPE 60' PARKING SPACES WITH 4" REFLECTORIZED PAINT AS SHOWN ON PLAN
  - CONSTRUCT NEW CURB WITH PAVEMENT PATCH PER DETAIL 2, SHEET C-7.
  - NEW FLAGPOLE LOCATION - AMERICAN FLAGPOLE COMPANY "CONTINENTAL" MODEL STD SATIN BRUSHED ALUMINUM FINNISH OR APPROVED EQUAL. INSTALL PER MANUFACTURERS INSTRUCTIONS. SEE STRUCTURAL FOR FOUNDATION DETAIL AND ARCHITECTURAL FOR CONCRETE PAD W/ INLAYED STONE DETAIL.
  - CONSTRUCT SIDEWALK CULVERT PER DETAIL 4, SHEET C-8. COORDINATE PLACEMENT WITH ROOF DRAIN LOCATION
  - CONSTRUCT RIP-RAP SWALE PER DETAIL 5, SHEET C-8. COORDINATE PLACEMENT WITH ROOF DRAIN LOCATION
  - PROVIDE 30"x12" CONCRETE SPLASH BLOCK. COORDINATE PLACEMENT WITH ROOF DRAIN LOCATION

LEGEND

CURB

CONCRETE

ASPHALT

GRAPHIC SCALE

0' 5' 10' 20' 30'

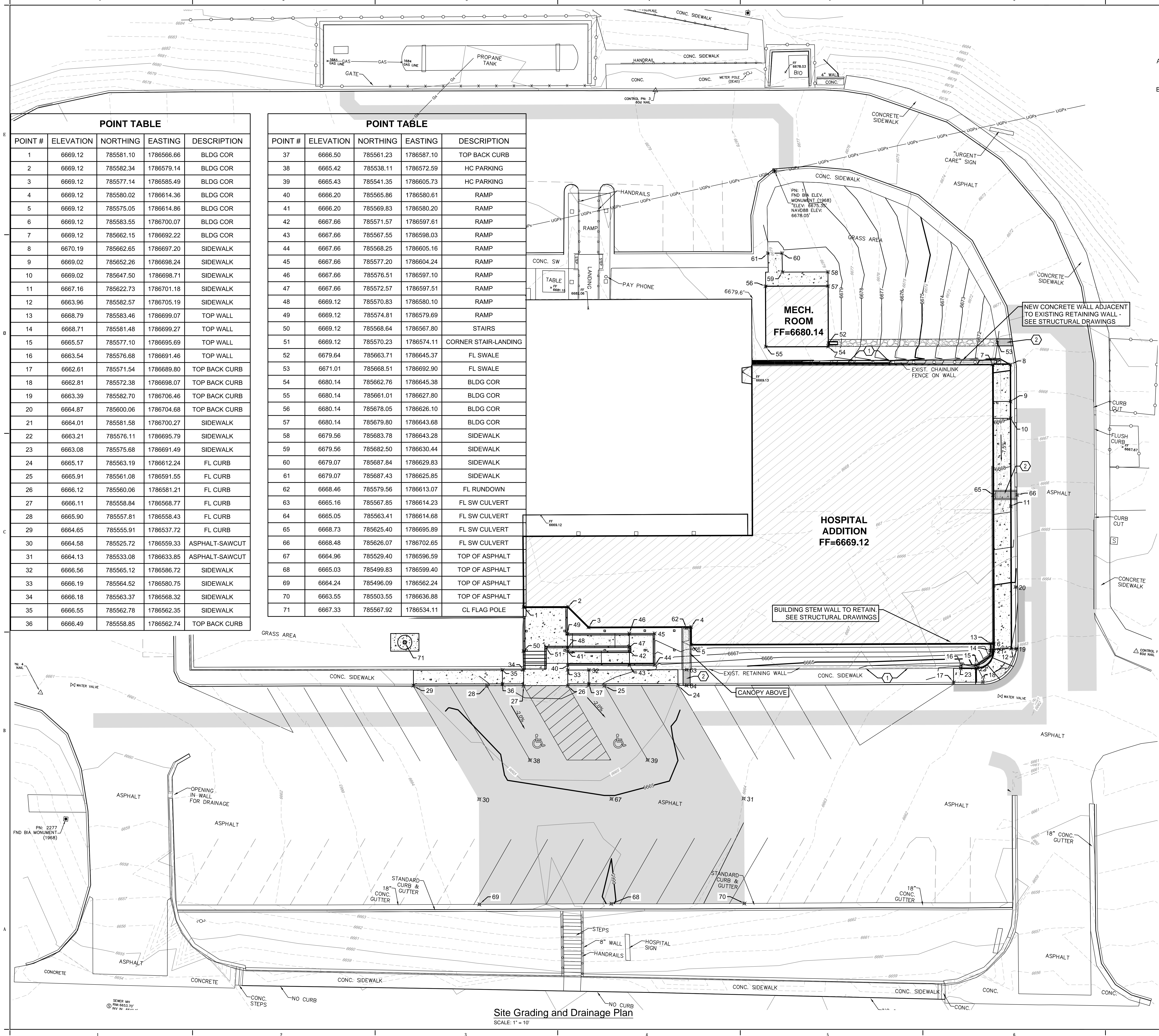
Scale: 1"=10'

ISSUED FOR CONSTRUCTION	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
DATE	JULY 27, 2018	APPROVED		
MARK				
STAMP				
CONSULTANT	<b>FORSGREN Associates, Inc.</b>			
DEPARTMENT OF HEALTH AND HUMAN SERVICES	INDIAN HEALTH SERVICE			
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING	ALBUQUERQUE AREA OFFICE			
4101 Indian School Road NE	Albuquerque, New Mexico 87110			
MESCALERO SERVICE UNIT	318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY			
RENOVATION & ADDITION				
Site Development Plan				
DRWN BY	L.S.			
CHKD BY	K.D.			
SCALE	AS SHOWN ON PLAN			
DATE				
C-3				
PROJECT NUMBER	117043			
SHEET	X OF X			



POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	6669.12	785581.10	1786566.66	BLDG COR
2	6669.12	785582.34	1786579.14	BLDG COR
3	6669.12	785577.14	1786585.49	BLDG COR
4	6669.12	785580.02	1786614.36	BLDG COR
5	6669.12	785575.05	1786614.86	BLDG COR
6	6669.12	785583.55	1786700.07	BLDG COR
7	6669.12	785662.15	1786692.22	BLDG COR
8	6670.19	785662.65	1786697.20	SIDEWALK
9	6669.02	785652.26	1786698.24	SIDEWALK
10	6669.02	785647.50	1786698.71	SIDEWALK
11	6667.16	785622.73	1786701.18	SIDEWALK
12	6663.96	785582.57	1786705.19	SIDEWALK
13	6668.79	785583.46	1786699.07	TOP WALL
14	6668.71	785581.48	1786699.27	TOP WALL
15	6665.57	785577.10	1786695.69	TOP WALL
16	6663.54	785576.68	1786691.46	TOP WALL
17	6662.61	785571.54	1786689.80	TOP BACK CURB
18	6662.81	785572.38	1786698.07	TOP BACK CURB
19	6663.39	785582.70	1786706.46	TOP BACK CURB
20	6664.87	785600.06	1786704.68	TOP BACK CURB
21	6664.01	785581.58	1786700.27	SIDEWALK
22	6663.21	785576.11	1786695.79	SIDEWALK
23	6663.08	785575.68	1786691.49	SIDEWALK
24	6665.17	785563.19	1786612.24	FL CURB
25	6665.91	785561.08	1786591.55	FL CURB
26	6666.12	785560.06	1786581.21	FL CURB
27	6666.11	785558.84	1786568.77	FL CURB
28	6665.90	785557.81	1786558.43	FL CURB
29	6664.65	785555.91	1786537.72	FL CURB
30	6664.58	785525.72	1786559.33	ASPHALT-SAWCUT
31	6664.13	785533.08	1786633.85	ASPHALT-SAWCUT
32	6666.56	785565.12	1786586.72	SIDEWALK
33	6666.19	785564.52	1786580.75	SIDEWALK
34	6666.18	785563.37	1786568.32	SIDEWALK
35	6666.55	785562.78	1786562.35	SIDEWALK
36	6666.49	785558.85	1786562.74	TOP BACK CURB

POINT TABLE				
POINT #	ELEVATION	NORTHING	EASTING	DESCRIPTION
37	6666.50	785561.23	1786587.10	TOP BACK CURB
38	6665.42	785538.11	1786572.59	HC PARKING
39	6665.43	785541.35	1786605.73	HC PARKING
40	6666.20	785565.86	1786580.61	RAMP
41	6666.20	785569.83	1786580.20	RAMP
42	6667.66	785571.57	1786597.61	RAMP
43	6667.66	785567.55	1786598.03	RAMP
44	6667.66	785568.25	1786605.16	RAMP
45	6667.66	785577.20	1786604.24	RAMP
46	6667.66	785576.51	1786597.10	RAMP
47	6667.66	785572.57	1786597.51	RAMP
48	6669.12	785570.83	1786580.10	RAMP
49	6669.12	785574.81	1786579.69	RAMP
50	6669.12	785568.64	1786567.80	STAIRS
51	6669.12	785570.23	1786574.11	CORNER STAIR-LANDING
52	6679.64	785663.71	1786645.37	FL SWALE
53	6671.01	785668.51	1786692.90	FL SWALE
54	6680.14	785662.76	1786645.38	BLDG COR
55	6680.14	785661.01	1786627.80	BLDG COR
56	6680.14	785678.05	1786626.10	BLDG COR
57	6680.14	785679.80	1786643.68	BLDG COR
58	6679.56	785683.78	1786643.28	SIDEWALK
59	6679.56	785682.50	1786630.44	SIDEWALK
60	6679.07	785687.84	1786629.83	SIDEWALK
61	6679.07	785687.43	1786625.85	SIDEWALK
62	6668.46	785579.56	1786613.07	FL RUNDOWN
63	6665.16	785567.85	1786614.23	FL SW CULVERT
64	6665.05	785563.41	1786614.68	FL SW CULVERT
65	6668.73	785625.40	1786695.89	FL SW CULVERT
66	6668.48	785626.07	1786702.65	FL SW CULVERT
67	6664.96	785529.40	1786596.59	TOP OF ASPHALT
68	6665.03	785499.83	1786599.40	TOP OF ASPHALT
69	6664.24	785496.09	1786562.24	TOP OF ASPHALT
70	6663.55	785503.55	1786636.88	TOP OF ASPHALT
71	6667.33	785567.92	1786534.11	CL FLAG POLE

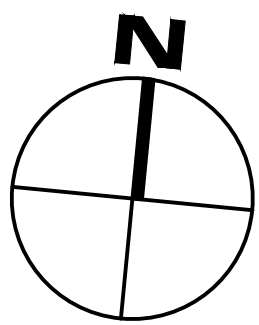


- GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY SITE FOR EXISTING CONDITIONS (SPOILS, BORROW AREAS, ETC.) PRIOR TO BIDDING EARTHWORK QUANTITIES.
  - FILL SHALL BE COMPACTED TO 95% MAX. DENSITY PER STD. PROCTOR.

- SITE KEYED NOTES:**
- EXISTING RETAINING WALL TO REMAIN AND TO BE PROTECTED DURING CONSTRUCTION
  - SIDEWALK CULVERT - SEE DETAIL 4, SHEET C-8

CUT	FILL
13 CU. YD.	412 CU. YD.

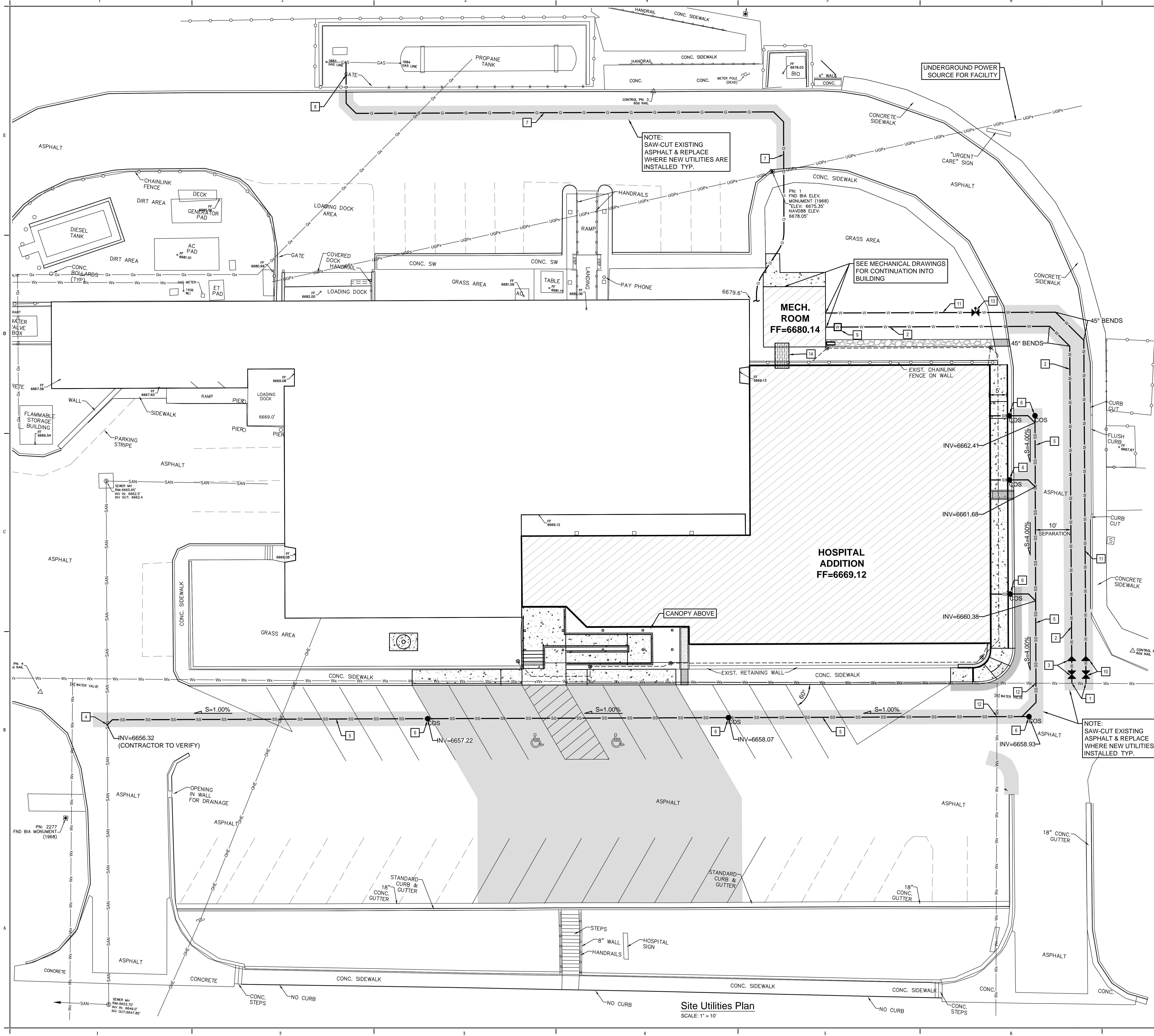
- LEGEND**
- 6650 EXISTING MAJOR CONTOUR
  - 6641 EXISTING MINOR CONTOUR
  - 6650 PROPOSED MAJOR CONTOUR
  - 6641 PROPOSED MINOR CONTOUR



**GRAPHIC SCALE**  
0' 5' 10' 20' 30'  
Scale: 1"=10'

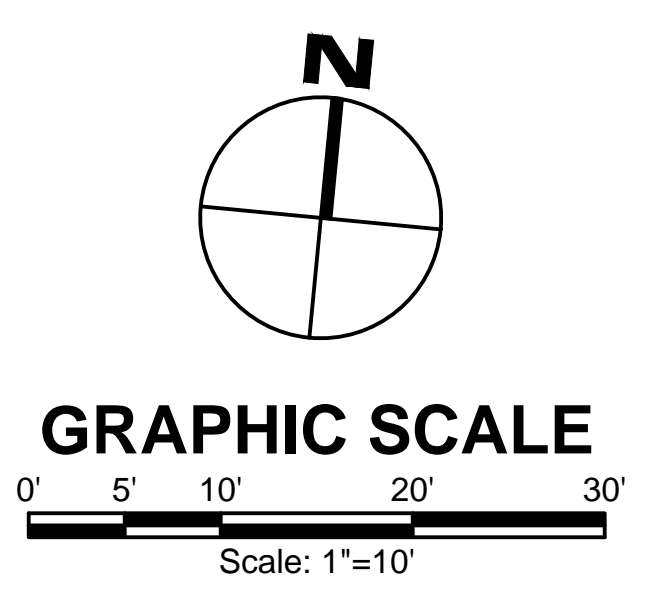
ISSUED FOR CONSTRUCTION JULY 20, 2018 APPROVED	ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	STAMP FORSGREN Associates, Inc. REGISTERED PROFESSIONAL ENGINEER 13309 NEW MEXICO 2-1916	DESCRIPTION DATE MARK	PROJECT NUMBER 117043				
FORSGREN Associates, Inc. 6100 Indian School Road NE STE. 202 ALBUQUERQUE, NM 87110 PH 505.814.2796 FAX 505.814.2877								
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110								
MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY RENOVATION & ADDITION Site Grading and Drainage Plan								
DRWN BY L.S. CHKD BY K.D. SCALE AS SHOWN ON PLAN DATE								
C-4								
SHEET X of X								





- UTILITY KEYED NOTES:**
- TIE INTO EXISTING 6" DOMESTIC WATERLINE - PROVIDE 6" SADDLE TAP.
  - INSTALL 2" PVC WATER SERVICE LINE PER IHS STD. DETAIL 1A, SHEET C-9.
  - INSTALL 6" WATER VALVE PER IHS STD. DETAIL 4B, SHEET C-9. AND INSTALL 6"x2" REDUCER
  - TIE INTO EXISTING 6" SANITARY SEWER LINE PER IHS STD. DETAIL 7C, SHEET C-9.
  - INSTALL 4" SDR-35 SANITARY SEWER LINE PER IHS STD. DETAIL 1A, SHEET C-9.
  - INSTALL 4" CLEANOUT PER IHS STD. DETAIL 6G / 7A, SHEET C-9.
  - INSTALL 2" LOW PRESSURE GAS LINE PER IHS STD. DETAIL 1A, SHEET C-9.
  - TIE INTO EXISTING GAS LINE.
  - INSTALL 2" WATER METER - BADGER METER MODEL 25 OR TRIBAL UTILITY APPROVED EQUAL.
  - INSTALL 6" WATER VALVE PER IHS STD. DETAIL 4B, SHEET C-9. AND INSTALL 6"x4" REDUCER
  - INSTALL 4" FIRE SERVICE LINE PER IHS STD. DETAIL 1A, SHEET C-9
  - WATER / SEWER CROSSING - MAINTAIN 18" VERTICAL CLEARANCE. IF SPACE IS NOT AVAILABLE, PROVIDE 10 LF OF CONCRETE ENCASUREMENT OF SEWER LINE AT CROSSING.
  - INSTALL 4" POST INDICATOR VALVE - MUELLER MODEL No. A-20809 OR APPROVED EQUAL SEE DETAIL ON, SHEET C-9.
  - UTILITY TRENCH BETWEEN MECHANICAL ROOM AND ADDITION. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING FOR PIPE AND CONDUIT IN TRENCH.

- LEGEND**
- |      |                                 |
|------|---------------------------------|
| UGPx | EXISTING UNDERGROUND POWER      |
| Gx   | EXISTING GAS LINE               |
| SAN  | EXISTING SANITARY SEWER         |
| OHE  | EXISTING OVERHEAD ELECTRIC      |
| WV   | EXISTING WATER VALVE            |
| COS  | EXISTING SAS MANHOLE            |
| UP   | EXISTING UTILITY POLE           |
| FH   | EXISTING FIRE HYDRANT           |
| LP   | EXISTING LIGHT POLE             |
| W    | NEW WATERLINE                   |
| SS   | NEW SANITARY SEWER LINE         |
| G    | NEW GAS LINE                    |
| WV   | NEW WATER VALVE                 |
| PIV  | NEW PIV VALVE                   |
| RED  | NEW REDUCER                     |
| COS  | NEW SEWER CLEANOUT              |
| WM   | NEW WATER METER                 |
| GR   | NEW GROUND ROD (SEE ELECTRICAL) |
| NC   | NEW CURB                        |
| CC   | NEW CONCRETE                    |
| NA   | NEW ASPHALT                     |



DATE	JULY 20, 2018
MARK	
STAMP	
DESCRIPTION	ISSUED FOR CONSTRUCTION
ARCHITECTURAL	MECHANICAL
ELECTRICAL	PLUMBING
DEPARTMENT OF HEALTH AND HUMAN SERVICES	INDIAN HEALTH SERVICE
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING	ALBUQUERQUE AREA OFFICE
4101 Indian School Road NE	Albuquerque, New Mexico 87110
MESCALERO SERVICE UNIT	318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY
RENOVATION & ADDITION	<b>Site Utilities Plan</b>
DRWN BY	U.S.
CHKD BY	KD
SCALE	AS SHOWN ON PLAN
DATE	
C-5	
PROJECT NUMBER	117043
SHEET	X of X



**JN 06-17-0131**

**Areas:**

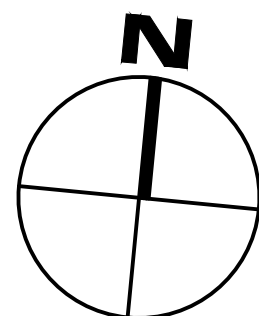
Area ID	Area (Acres)
Area-1	0.08
Area-2	0.16
Area-3	0.08
Area-4	0.09

### CP-3 Peak Flowrates

Storm Event	Q (cfs)
2-Year	0.05
10-Year	0.08
25-Year	0.10
50-Year	0.11
100-Year	0.13

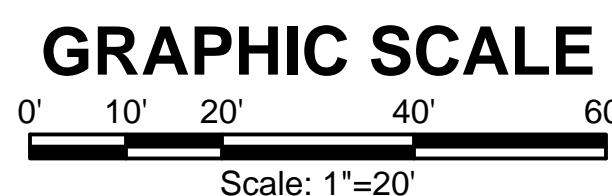
### CP-4 Peak Flowrates

Storm Event	Q (cfs)
2-Year	0.26
10-Year	0.41
25-Year	0.50
50-Year	0.57
100-Year	0.64





# Drainage Plan

SCALE: 1" = 20'



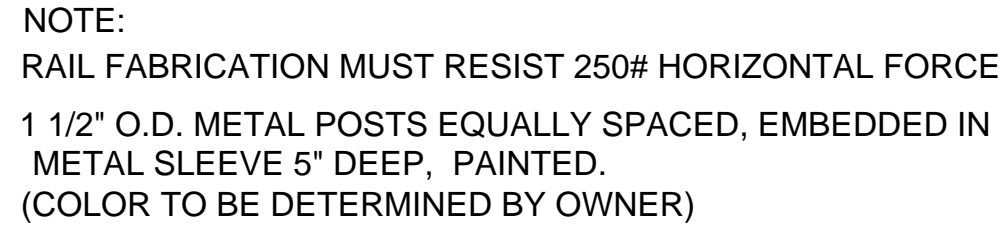
1. THE PROPOSED PROJECT IS BUILDING RENOVATION. THE STRUCTURE WILL BE EXTENDED ON BOTH SOUTHERN AND EASTERN SIDES. THERE IS A SLIGHTLY LARGER BUILDING FOOTPRINT. THUS, DRAINAGE IS AFFECTED MINIMALLY.
2. THE PROJECT SITE IS IN A FEMA FLOODPLAIN (ZONE D) PER FIRM MAP NO. 35035C0500D. THIS MEANS NO FLOOD HAZARD ANALYSIS HAS BEEN CONDUCTED. IT IS THEREFORE, AN AREA WITH POSSIBLE BUT UNDETERMINED FLOOD HAZARDS.
3. THE SITE IS ON THE SOUTH SIDE OF A DOWNSLOPE. OFFSITE DRAINAGE FROM NORTHERN SLOPE IS DIVERTED BY EXISTING ACCESS DRIVE.
4. AREA OF CONSTRUCTION IS LESS THAN ONE ACRE, SO A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS NOT NEEDED.
5. RAINFALL INTENSITIES (INCHES/HOUR) WERE OBTAINED FROM NOAA DATA SERVER.

SHEET	X	OF	X
PROJECT NUMBER 117043			
<b>C-6</b>			
DATE		AS SHOWN ON PLAN	
CHKD BY KD		DRWN BY LS	
SCALE		MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY	
B		RENOVATION & ADDITION	
C		DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	
D		 <b>FORSYTH Associates, Inc.</b> CONSULTANT 5400 INDIAN SCHOOL RD NE STE. 305 ALBUQUERQUE NM 87110 87110 PH: 505.814.2796 FAX: 505.814.2877	
E		STAMP:  REGISTERED PROFESSIONAL ENGINEER	
F		MARK	
G		DATE	
H		JULY 20, 2018	
I		ISSUED FOR CONSTRUCTION	
J		ARCHITECTURAL	
K		MECHANICAL	
L		ELECTRICAL	
M		PLUMBING	









SCALE: N.T.S.



SCALE: N.T.S.



SCALE: N.T.S

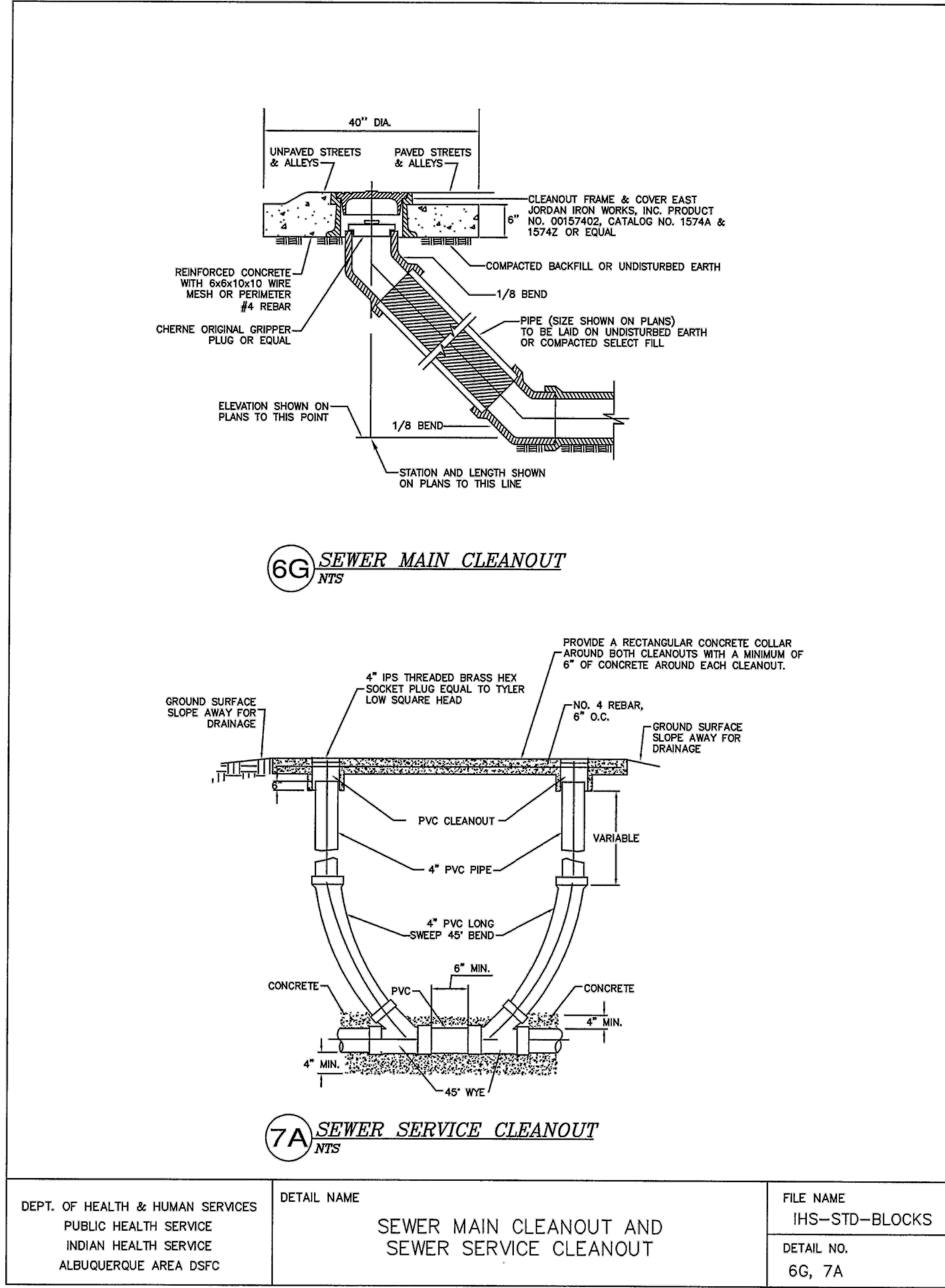
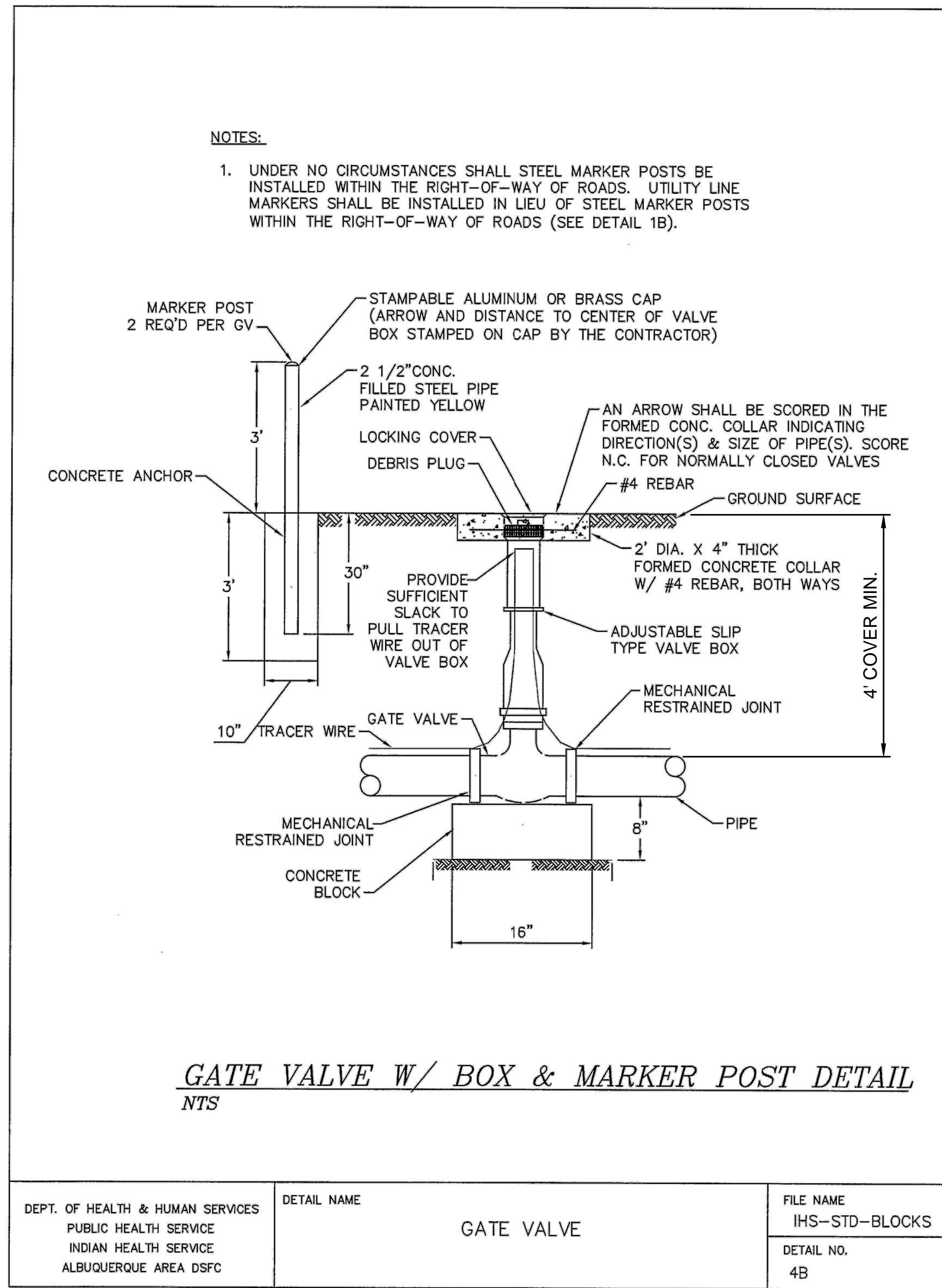
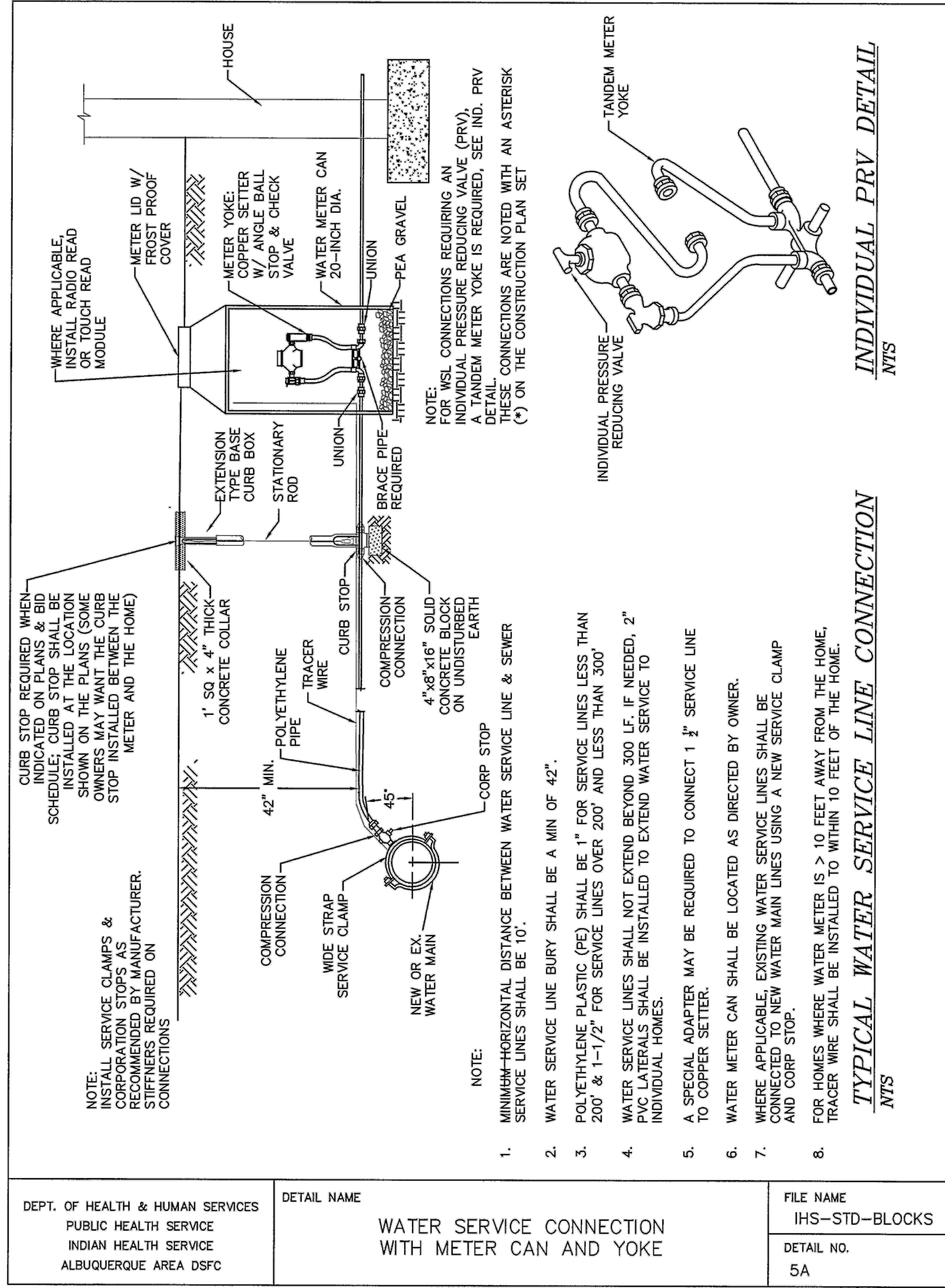
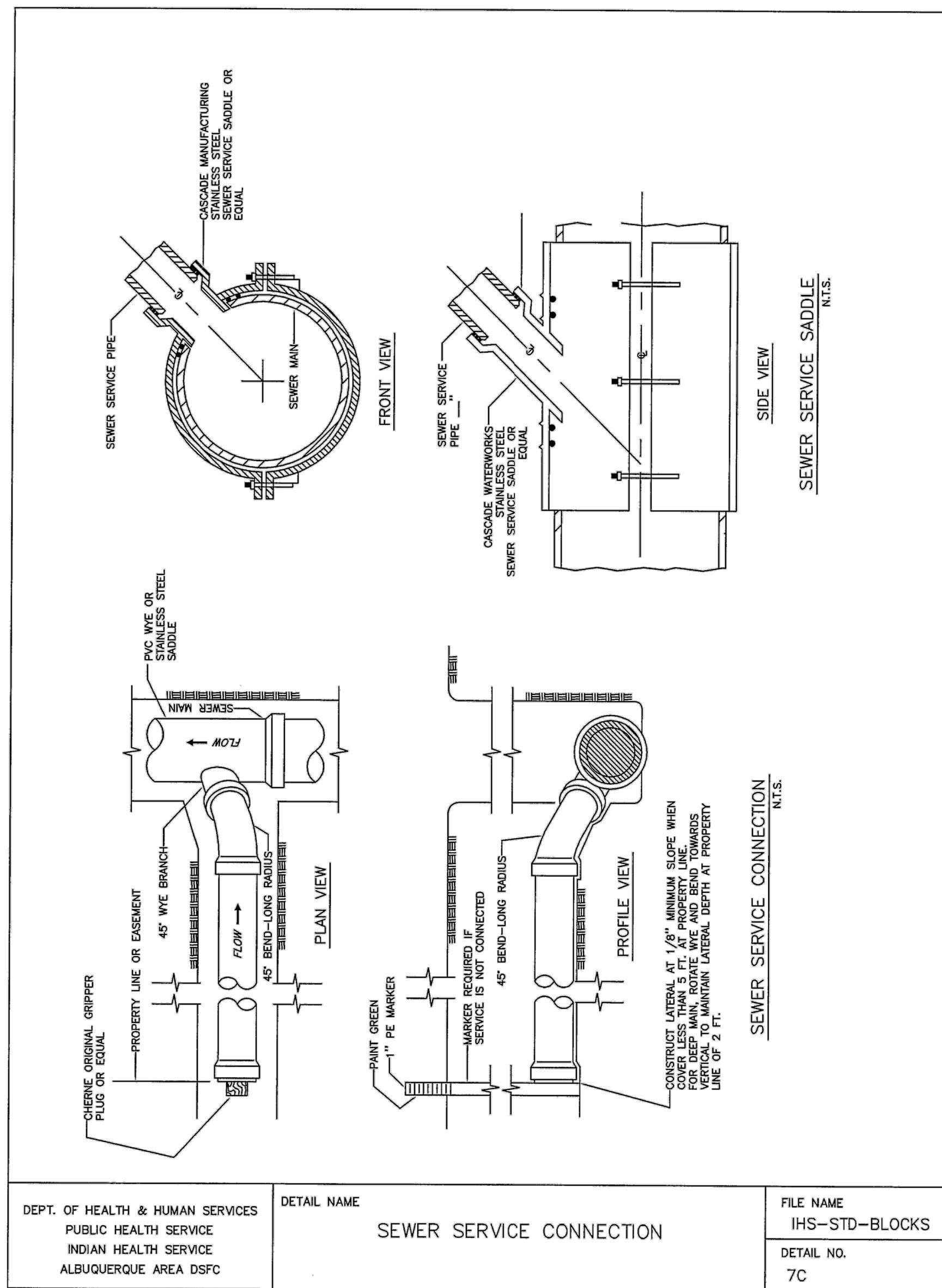


SCALE: NTS



SCALE: N.T.S.





SECTION E-1  
Rev. 10-17  
Shaded areas indicate change.

SHALLOW BURY ADJUSTABLE INDICATOR POST FOR 4" THRU 24" VALVES

Mueller Co.  
Sole and Domestic

UL / FM

FIRE PROTECTION PRODUCTS

A-20806: Adjustable Type Indicator Post  
UL Listed FM Approved  
A-20807: Adjustable Type Indicator Post  
UL Listed

Parts List

Part Number	Description	Material	Material Standard
P209	Shut Target	Nylon	Nylon
P209	Shut Target	Nylon	Nylon
P217	Cutter Pin (short)	Brass	ASTM B21
P218	Coupling	Steel	ASTM A500 GR.B
P219	Cutter Pin (long)	Brass	ASTM B21
P242	Retaining ring	Stainless Steel	AISI 302
P244	Hex Bolt	Steel/zinc plated	ASTM A307 GR.A
P246	Post Head	Cast Iron**	ASTM A126 CL.B
P273	Bell	Cast Iron	ASTM A126 CL.B
P303	Hex Nut	Steel/zinc plated	ASTM A563 GR.B
P304	Operating Nut	Ductile Iron	ASTM A536
P305	Cap	Plastic	Polypropylene
P307	Spring pin	Stainless Steel	AISI 420
P308	Threaded sleeve	Plastic	Nylon
P309	Upper stem	Steel	ASTM A513
P315	Pipe plug - hex socket	Steel	-
P317	Window	Polycarbonate	-
P322	Hex head screw	Steel/zinc plated	SAE J429
P323	Lower Barrel	PVC**	DR14 UL Listed
P324	Upper Barrel	Steel	ASTM A53 GR.B
P325 (20806)	Ductile Iron	Ductile Iron	ASTM A536
P325 (20807)	Wrench	Steel	ASTM A35 HRS
P326	Lower Stem	Steel	ASTM A500 GR.B
P329	Socket head set screw	Steel	ANSI B18.3
P350	Coupling Insert	Steel	ASTM A500 GR.B
P353	Washer	Stainless Steel	AISI 304

\* Optional ductile iron lower barrel available  
\*\* Manufacturers option to change material to Ductile Iron ASTM A536  
\* Material strength ASTM A536 65-45-12 minimum

Nominal trench depths for Mueller Resilient Wedge Post Indicator Valves

Part Number	Valve size	Order Length S	
		Minimum	Maximum
A-20806	4"	1' - 4"	2' - 3"
	6"	1' - 9"	2' - 8"
	8"	2' - 1"	3' - 0"
	10"	2' - 6"	3' - 5"
	12"	2' - 10"	3' - 9"
	14"	3' - 4"	4' - 3"
A-20807	16"	3' - 8"	4' - 7"
	18"	4' - 3"	5' - 2"
	20"	4' - 7"	5' - 6"
	24"	5' - 4"	6' - 3"

D Dimension adjustment range

Minimum	Maximum
3"	14"

Page E-1-6

See page E-1-17 for ordering instructions



GENERAL STRUCTURAL NOTES

1. CODES AND MANUALS:  
NFPA 5000  
ACI 318, Current Edition  
AISC Manual of Steel Construction, Current Edition  
AISI Cold-Formed Steel Design Manual, Current Edition  
ACI 530, Current Edition  
ASCE 7-10, Min. Design Loads for Buildings

2. DESIGN LOADS:  
A. Vertical: Roof Live Loading (non reducible snow) 20psf  
Roof Dead Loading 24psf

- B. Horizontal:  
(1) WIND - ASCE 7 Main Force Resisting system

WALLS

V <sub>3</sub> Sec gust	= 120mph
I <sub>w</sub>	= 1.0
Exposure	= C
Mean Roof Height	= 14ft.
Roof Angle	= 0
γ	= 1.0

- (2) SEISMIC (EQUIVALENT LATERAL FORCE PROCEDURE) V = C<sub>s</sub> W

Site Class	= D
Occupancy Category	= IV
Seismic Design Category	= C
I <sub>E</sub>	= 1.25
S <sub>0s</sub>	= 0.281
S <sub>0i</sub>	= 0.131
R	= 3.5
C <sub>s</sub>	= 0.10

C. SOIL:

- (1) Allowable Bearing Pressure q<sub>a</sub> = 2000psf for conventional spread and strip footing areas and q<sub>a</sub> = 1000psf for raft slab areas per the Geotechnical Engineering Report for the project prepared by

\*allowable 1/3 stress increase for combined gravity and seismic/wind loading

3. GENERAL

- A. The Contractor shall verify all dimensions in the field.  
B. Shop drawings shall be furnished for review before any fabrication and erection is started. Poorly executed shop drawings shall be rejected and resubmitted.  
C. The Contractor shall be responsible for providing safe and adequate shoring for all parts of the structure during construction.  
D. All trades shall coordinate and verify all openings in floors, roof, walls, and beams with the General Contractor.  
E. The General Contractor shall be responsible for foundations under Mechanical equipment and shall coordinate size and location of foundations with Mechanical Contractor.

4. MATERIALS

- A. Cast-in-place Concrete:  
(1) Hardrock Concrete (Unit Wt. = 150 pcf)  
a. F'<sub>c</sub> = 3000 psi @ 28 days -All cast-in-place concrete slab-on-ground footings, piers and stemwalls.  
b. F'<sub>c</sub> = 4000 psi @ 28 days (Air Entrained) -All cast-in-place exterior concrete slabs-on-ground and site concrete

B. Reinforcing Steel:

- (1) All reinforcing steel shall conform to ASTM A615 Grade 60.  
(2) Welded smooth wire fabric shall conform to ASTM A185 specification for welded wire fabric for concrete reinforcement.  
(3) Reinforcing steel shall be fabricated and placed in accordance with the latest building code requirements for reinforced concrete (ACI 318) and the latest standard Manual (ACI 315)  
(4) Bar supports and spacers for rebar shall be provided in accordance with ACI 315. Chairs with 22 GA. sand plates shall be provided for all reinforcing in slabs on grade.  
(5) Where lapped splices in reinforcing occur, the minimum lap shall be made as follows unless noted otherwise:  
a. Vertical reinforcing: 48 bar dia. or 24" minimum.  
b. Horizontal reinforcing: 48 bar dia. or 24" minimum.  
c. Horizontal corner bars: 48 bar dia. or 24" minimum.  
(6) Concrete cover for reinforcing shall be as follows:  
a. Footings: 3" from bottom and 2" from sides.  
b. Stem Walls: 2" from sides and 2" from top and bottom.  
c. Slabs on ground: centered in slab.  
(7) The contractor shall be responsible to see that all rebar is properly aligned and tied in place before placing concrete. All column, wall dowels and vertical steel shall be accurately located and secured in place so that it remain in position during the concrete placing operation. Any rebar found to be improperly installed shall be removed and replaced at no additional cost to the owner.  
(8) All horizontal reinforcing in footings, walls and beams shall be continuous around corners or have corner bars of the same size and spacing as the horizontal bars and lap a minimum of 30 bar diameters or 24" minimum.  
(9) Form Ties shall be either of the threaded or snap off type so that no metal will be left within 1" of the surface of the wall. Following removal of form ties, recesses are to be carefully filled and pointed with mortar.

C. Structural and Miscellaneous Steel:

- (1) All structural steel members, shapes and connections shall conform to ASTM A992 Fy=50ksi  
(2) The contractor shall be responsible for checking the Architectural drawings for all miscellaneous steel.  
(3) Bolts Shall Conform to ASTM A325 tension control bolts unless noted otherwise, with sizes as shown on the drawings. Anchor bolts embedded in concrete or masonry shall be ASTM F1554 grade 36 bolts or A36 threaded bars.  
(4) All welding shall be done by certified welders and shall be in accordance with the latest standards of the AWS and AISC. Inspect all welding in Accordance with the specifications.  
(5) Tube steel shall be ASTM 500 grade B Fy=46ksi.  
(6) All miscellaneous steel members shall conform to ASTM A36 Fy=36ksi

D. Cold formed structural and miscellaneous steel

- (1) All cold formed shapes and connections shall have a yield stress of Fy=50 ksi for 16gage & heavier & 33ksi for 18gage & lighter.  
(2) All welding shall conform to the provisions of AWS D1.1-2000 and ANSI/AWS D1.3-98. Where the weld throat is not shown on the drawings, the weld throat shall be at least as the thickness of the thinnest sheet joined. All welds shall provide complete fusion of the sheets without "blowouts".  
(3) At all butt joints, abutting pieces of track shall be securely anchored to a common structural element or they shall be splice welded together.

- (4) All structural stud framing shall have rows of horizontal bridging installed at a maximum of 4'-0" o.c. See detail on sheet S-001.  
(5) The track of all structural stud framing shall be 16 gage minimum.

E. Masonry

- (1) All masonry shall be 2 cell block and have a specified minimum compressive strength of 1900psi on net area at 28 days. fm'=1500psi  
(2) Type "S" Mortar shall be used  
(3) All CMU bond beams, lintels and cells which contain reinf. steel shall be filled solid with 2000 psi concrete grout  
(4) Vertical cells to be filled shall have vertical alignment sufficient to maintain a clear unobstructed continuous vertical cell not less than 2"x3" in plan dimensions  
(5) Foundation dowels shall extend into the foundation concrete as shown on the sections and details. Splices of reinforcing steel in masonry shall be 2'-0" or 48 bar diameters in length, which ever is greater. There shall be a foundation dowel for for each vertical wall reinforcing bar.  
(6) Normal vertical wall reinforcing shall extend continuously from the top of foundation to embed at least 6" into the top of wall bond beam. The vertical slots in knockout bond beams shall be at least 3" into the height of an 8" block unit.  
(7) An additional vertical bar the same size and length as the normal vertical reinf. bar shall be placed:  
A. As shown on drawings.  
B. At a corner intersection of two walls, see detail on sheet S-002.  
C. At a "T" intersection of two walls, see detail on sheet S-002.  
D. At end of discontinuous walls and at openings, see detail on sheet S-002.  
(8) Control joints shall be installed per masonry control joint detail on sheet S-002. For control joint locations see Architectural drawings. Continue all bond beam and lintel reinforcement through control joint.  
(9) Corner blocks shall be interwoven between two walls  
(10) Unless noted otherwise, provide (2) additional #5 reinforcing bars along sides and top & bottom of all masonry wall openings. Extend reinforcing 24" beyond opening.  
(11) All masonry shall be special inspected in accordance with the requirements contained in the IBC 2015.

5. SITE GRADING AND EARTHWORK:

- A. Inspection: The inspection of soils for this facility shall be covered under the "Quality Assurance Plan" outlined on this sheet.  
B. Foundation Preparation:  
Building areas shall be completely stripped of vegetation, pavements, walls, and soft or muddy areas.  
(1) All foundations and all interior slabs-on-ground shall be supported on a minimum depth of structural fill as shown in the detail on this sheet. Prior to fill placement the exposed surfaces shall be scarified to a minimum depth of eight inches and moistened to a moisture content at or above optimum (±3%). The exposed soils shall then be compacted to a minimum of 96% of maximum density as determined by ASTM D-1557 prior to placing new compacted fill.  
(2) All scarification and removals specified herein shall extend a distance of at least two feet beyond all footing edges.  
(3) Soil utilized for filling shall consist of approved on-site or imported soil in accordance with the requirements contained in the Geotechnical Engineering Report.  
(4) Any imported soils shall be approved by the Geotechnical Engineer for both expansive and strength qualities prior to importation to the project site. Final acceptance of any imported soil will be based on observation of the soil actually delivered to the site.  
(5) All fill shall be compacted to at least 95 percent of maximum dry density.  
(6) The maximum density of all soils shall be determined in accordance with A.S.T.M. Test Method D-1557.  
(7) All fill shall be placed with a moisture content at or above optimum (+/-3%).  
C. Fill material shall be non-expansive soil with a plasticity index of ten or less. All fill material shall be approved by the Geotechnical Engineer.  
D. Site Drainage During Construction:  
(1) Positive surface drainage away from both existing structures and new foundation excavations shall be provided during construction.  
A minimum of four percent gradient within the first ten feet away from structures in areas not protected by sidewalks and pavement shall be maintained

QUALITY ASSURANCE PLAN

General Requirements:

1. The owner shall be responsible for hiring the special inspector(s) and must incur all associated costs per section 1704.1 of the IBC-2015.  
2. The permit applicant shall submit a statement of special inspections prepared by the registered design professional in responsible charge per section 1704.1.1 of the IBC-2015. The statement of special inspections shall be as shown on this sheet.  
3. Special inspectors shall submit inspection reports to the building official and to the registered design professional in responsible charge. The reports shall be prepared in accordance with the requirements contained in section 1704.1.2 of the IBC-2015.  
4. The required Special Inspections for this project have been summarized below. All other normal inspections and testing not included in the Special Inspections shown below (i.e. soils compaction testing, concrete sampling and testing, permit agency inspections, etc.) shall be paid for by the General Contractor. All normal testing and inspections, as well as all Quality Assurance testing and inspections (Special Inspections), shall be coordinated and scheduled by the General Contractor to fit within the workflow of the project

Structural Observations

5. Structural observations shall be performed in accordance with sections 1709 of the IBC-2015.

Seismic Resistance

1. SEISMIC RESISTANCE REQUIREMENTS

- a) Quality plan for the seismic resistance of this project will include the following items:  
1) Seismic-Force-Resisting system for this building: This system consists of Steel Ordinary Moment Frames  
b) The special inspections and testing to be provided for the items shown above shall be in accordance with the sections 1704, 1707 and 1708 of the IBC-2015.  
c) The type and frequency of testing and special inspections shall be as shown above.  
d) The testing and special inspection reports shall be distributed weekly during the construction period for each element. The reports shall be submitted to the following:  
1) building official and  
2) registered design professional

- e) Contractor responsibility: each contractor responsible for the construction of any of the the systems listed above shall submit a written contractors statement of responsibility to the building official, and the registered design professional prior to the commencement of work. The contractors' statement of responsibility shall contain the following:  
1) Acknowledgement of awareness of the special requirements contained in the quality assurance plan.  
2) Acknowledgement that control will be exercised to obtain conformance with the construction documents.  
3) Procedures for exercising control within the contractors' organization, the method and frequency of reporting and the distribution of reports.  
4) Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

Special Inspections /Quality Assurance Requirements	
Item	Special Inspection Requirement
1. Fabricated Items (i.e. Steel joists, etc.)	Special Inspection is not required if the fabricator is registered and approved/certified to perform such work without special inspection. The fabricator shall submit a certificate of compliance to the building official and the Engineer of Record stating that the work was performed in accordance with the approved construction documents if special inspection is not performed. See IBC 2015 Sections 1702 and 1704.2.2
2. Masonry Construction	Special Inspection for the masonry elements of the Facility shall be in accordance with Level 1 requirements of the IBC 2015 and as shown below:  a. Proportions of site prepared mortar and Construction of mortar joints, locations of reinforcing connectors and anchorages b. Size and Location of Structural elements c. Type, size, and location of anchors including details of masonry anchorage to other structural members d. Specified size, grade, and type of reinforcement e. Protection of masonry during cold or hot weather f. Prior to grout placement verify that grout space is clean, placement of reinforcement and anchorage is accurate, and mortar joints are correct. g. Grout Placement, grout specimens, mortar specimens, and prisms
3. Steel Construction	Continuous Inspection required to ensure compliance with ACI 530.1/ASCE 6/ TMS 602 Article 3.5, and 1.4, and IBC 2015 Section 2105.2.2 and 2105.3  a. Verification of high strength bolts, nuts and washers. Verify confirmation of identification markings to ASTM standard specified. Obtain manufacturer's certificate of compliance.  b. Verification of high strength bolting: 1) bearing-type connections 2) Slip-Critical connections c. Inspection of Welding: 1) Complete and partial penetration groove welds 2) Multipass fillet welds 3) Single pass fillet welds greater than 5/16" 4) Single pass fillet welds less than 5/16" 5) Floor and Roof Deck welds 6) Verification of weldability of reinforcing steel other than ASTM A 706 7) Shear reinforcement 8) Other reinforcing steel d. Inspection of Steel frame joints for compliance with approved construction documents

4. Concrete Construction	
a. Inspection of reinforcing steel and placement	Periodic Inspection per ACI 318: Sections 3.5 and 7.1-7.7
b. Inspection of bolts installed in concrete	Continuous Inspection per ACI 318: Sections 8.1.3 and 21.2.8
c. Inspection of anchors installed in hardened concrete	Periodic Inspection per ACI 318: Sections 3.8.6, 8.1.3 and 21.2.8
d. Verify use of required mix design	Periodic Inspection per ACI 318: Chapter 4 and Sections 5.2-5.4
e. Fabricate specimens for strength tests, perform slump, and air content tests, and determine the temperature of the concrete	Continuous Inspection (during fresh concrete delivery) per ASTM C172, C31 and ACI 318: Sections 5.6 and 5.8
f. Inspection for maintenance of specified curing temperature and techniques	Periodic Inspection per ACI 318: Sections 5.11-5.13
Special Inspections / Quality Assurance Requirements	
5. Soils	
a. Verify materials below shallow foundations are adequate to achieve the design bearing capacity	Periodic Inspection
b. Verify excavations are extended to proper depth and have reached proper material	Periodic Inspection
c. Perform classification and testing of compacted fill materials	Periodic Inspection
d. Verify use of proper materials, densities, and lift thicknesses during placement and compaction of compacted fill.	Continuous Inspection
e. Verify that site has been prepared properly prior to compacted fill placement	Periodic Inspection

DESCRIPTION  
ISSUE FOR CONSTRUCTION  
JULY 20, 2018

DATE

MARK

APPROVED

ARCHITECTURAL  
MECHANICAL  
ELECTRICAL  
PLUMBING

STAMP  
INDIAN HEALTH SERVICE  
7/20/18

CONSULTANT  
QUIGLEY & PFEIFFER  
ENGINEERING CORPORATION

INDIAN HEALTH SERVICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE

MESCALERO SERVICE UNIT  
3118 ABALONE LOOP MESCALERO, NM 86033 OTERO COUNTY  
RENOVATION & ADDITION  
GENERAL STRUCTURAL NOTES

DRWN BY  
RMR  
CHKD BY  
RSP  
SCALE  
1/4" = 1'-0"  
DATE

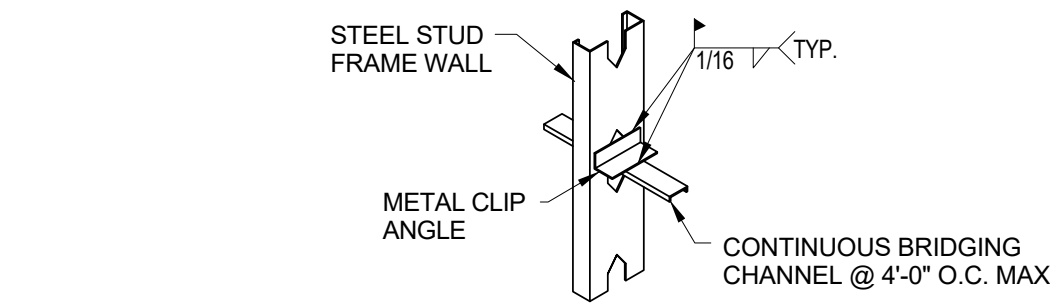
S-1

PROJECT NUMBER  
HHS16120023  
HHS16109267

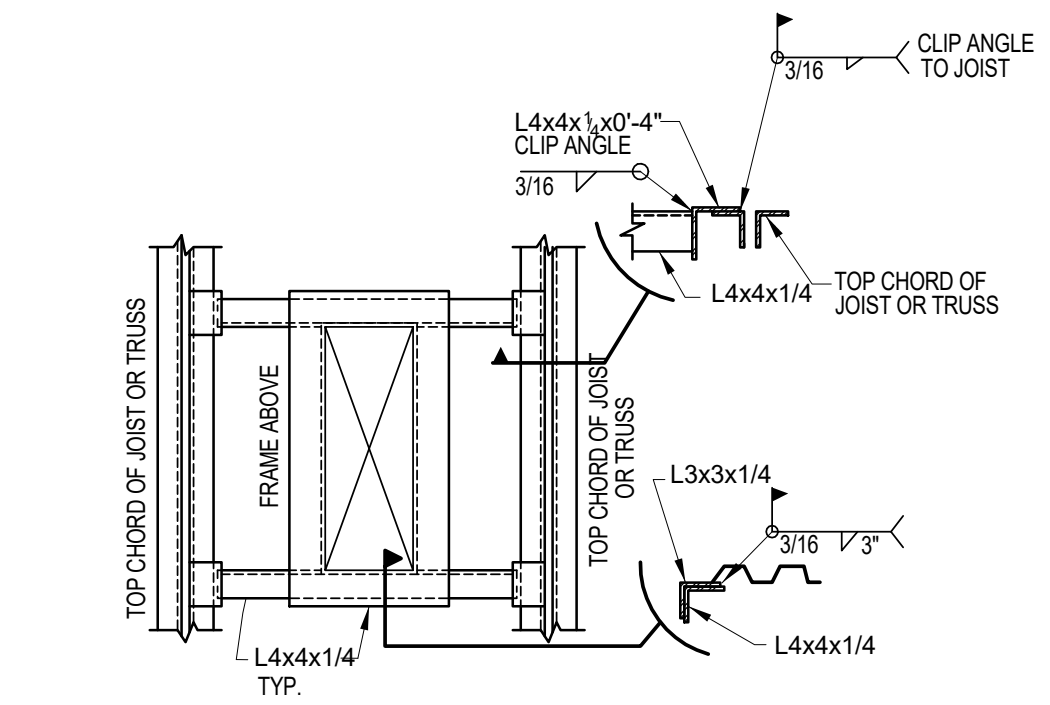
SHEET of



BIM 360//2017.009 Mesalero Indian Hospital Renovation/5135.01\_IHS\_MESCALERO\_STRUCT\_R2017.rvt



**E1** HORIZ. BRIDGING DETAIL  
SCALE: NTS

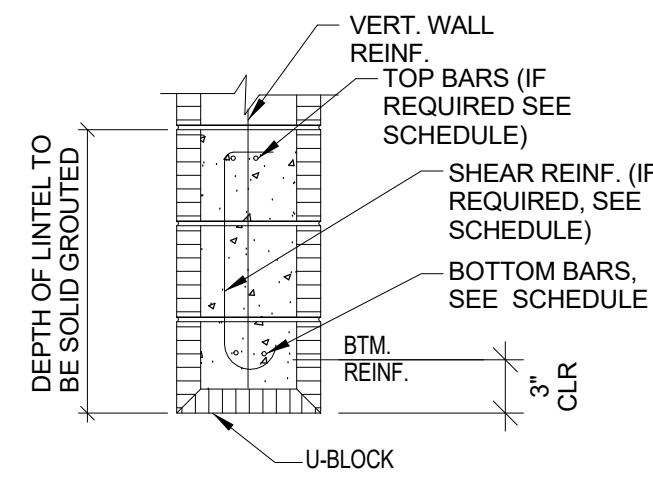


**D1** ROOF PENETRATION DETAIL  
AT OPENINGS LARGER THAN  
1'-6" SQ. OR 1'-6" DIAMETER  
SCALE: NTS  
NOTE: SEE MECHANICAL AND  
ARCHITECTURAL DRAWINGS FOR  
OPENING SIZES AND LOCATIONS

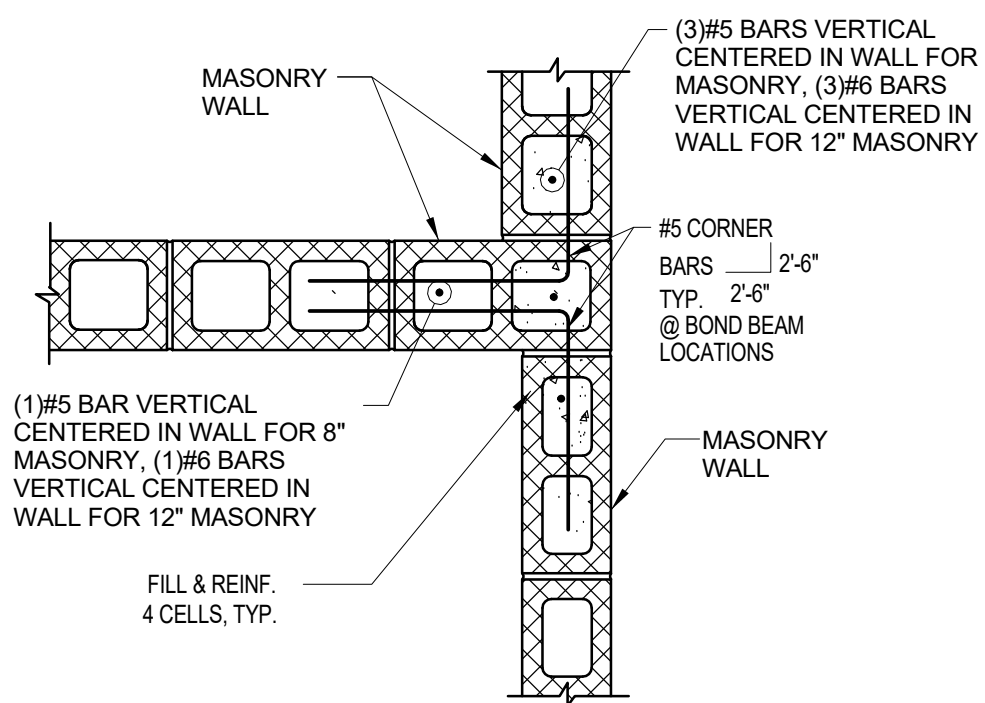
#### LINTEL SCHEDULE

NOTE: SEE ARCHITECTURAL AND MECHANICAL  
DRAWINGS FOR OPENING SIZES. SEE  
FRAMING PLANS FOR LOCATION

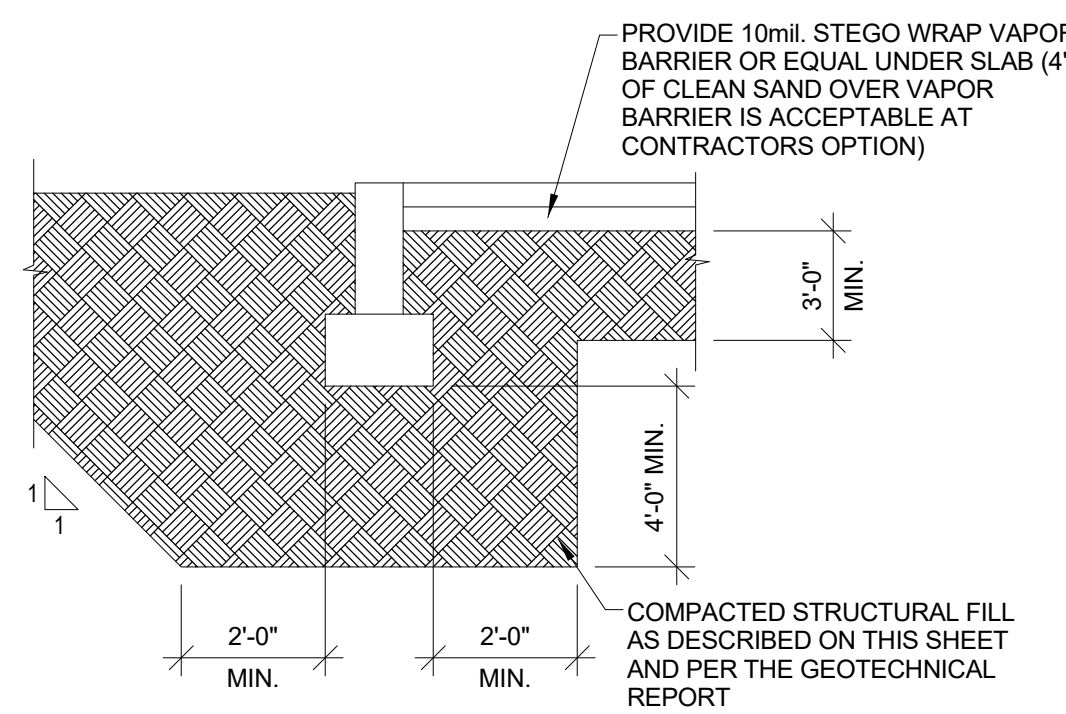
LOCATION	DEPTH OF LINTEL	LINTEL BEARING LENGTH	LINTEL WIDTH	BOTTOM BARS	TOP BARS	SHEAR REINFORCEMENT
L1	16"	16"	8"	(2)#5	(2)#5	N/A



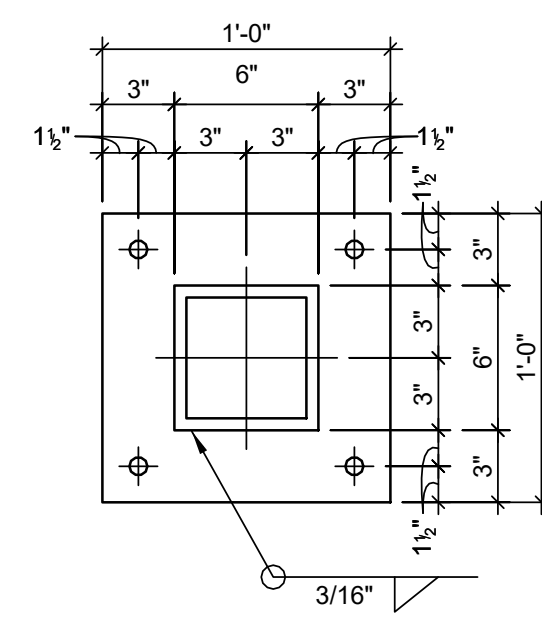
**C1** MASONRY LINTEL DETAIL  
SCALE: NTS



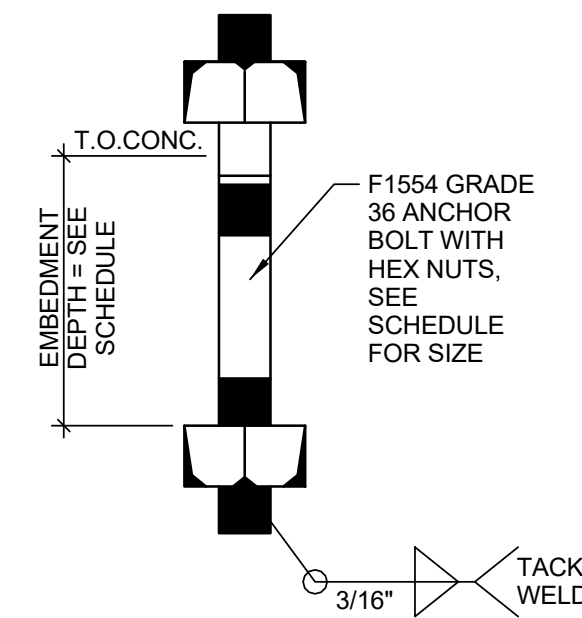
**B1** MASONRY WALL  
DETAIL AT INTERSECTIONS  
SCALE: NTS



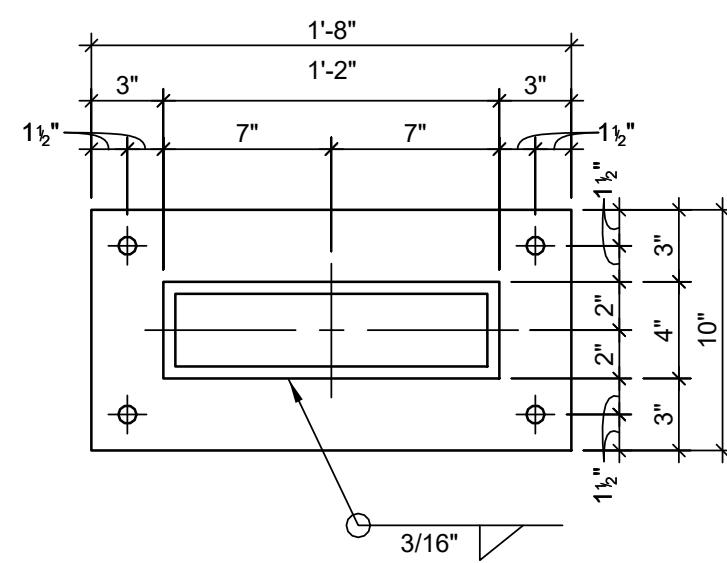
**A1** STRUCTURAL FILL  
REQUIREMENTS DETAIL  
SCALE: NTS



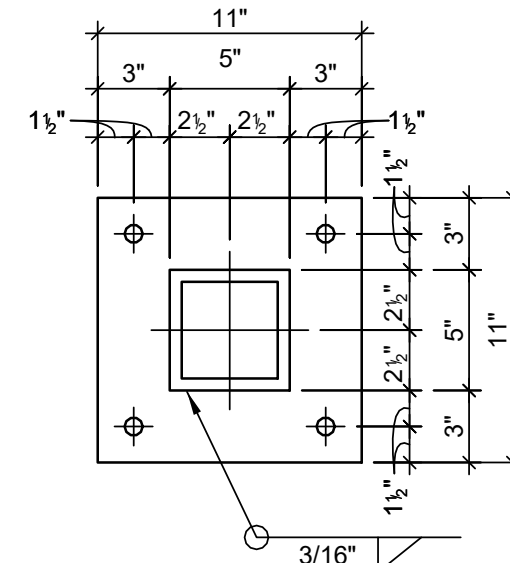
**TYPE G**  
SCALE: NTS



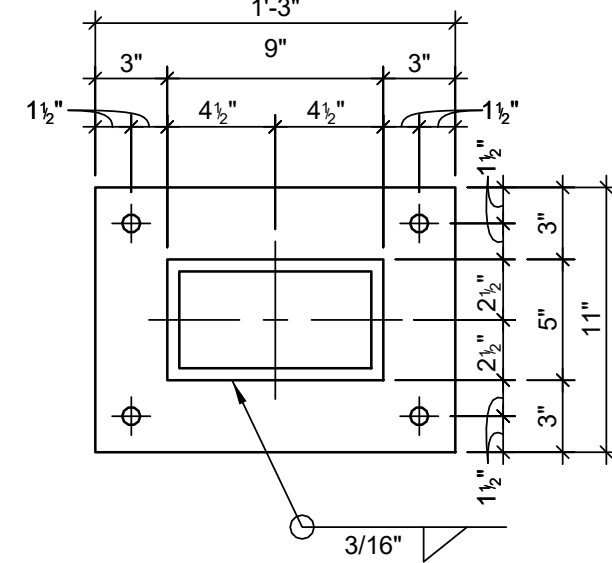
**ANCHOR BOLT  
TYPE 1**  
SCALE: NTS



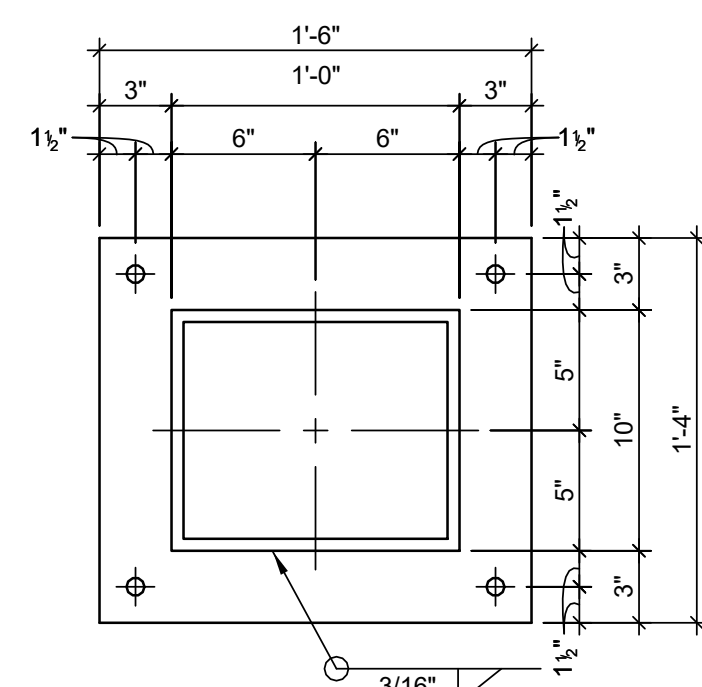
**TYPE D**  
SCALE: NTS



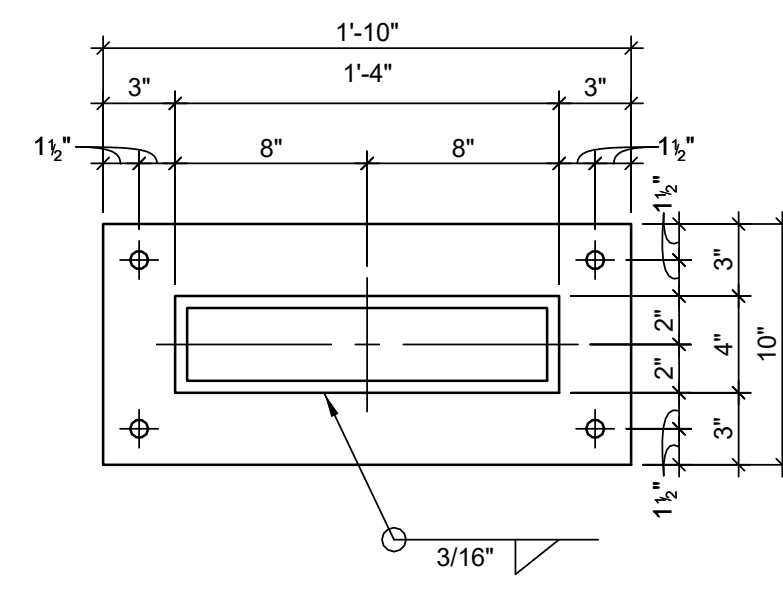
**TYPE E**  
SCALE: NTS



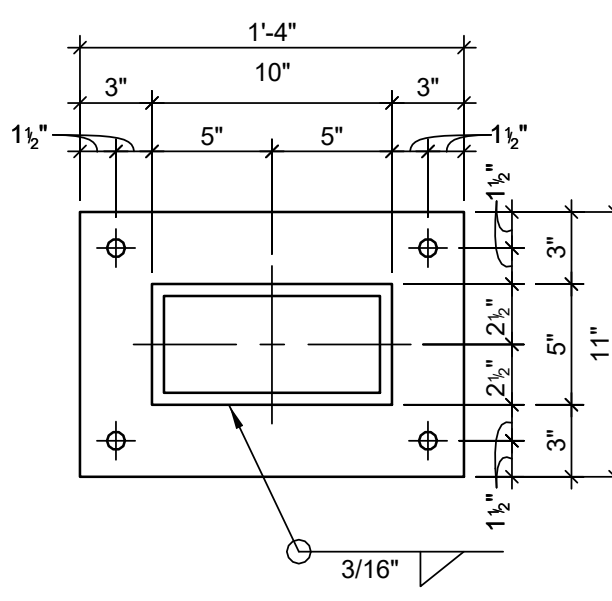
**TYPE F**  
SCALE: NTS



**TYPE A**  
SCALE: NTS

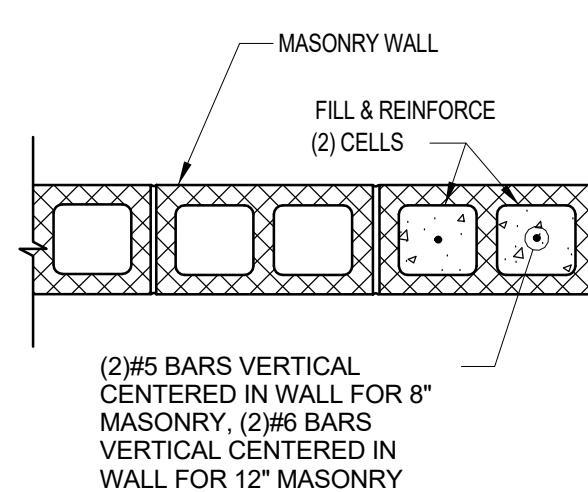


**TYPE B**  
SCALE: NTS

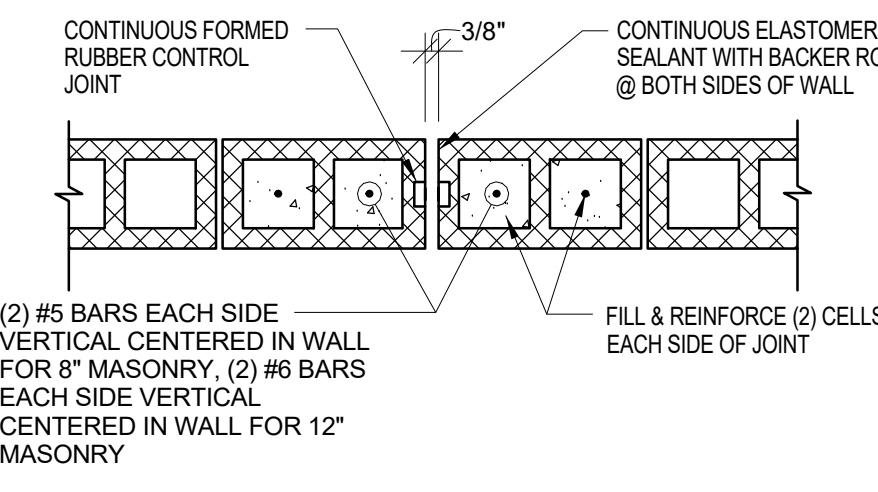


**TYPE C**  
SCALE: NTS

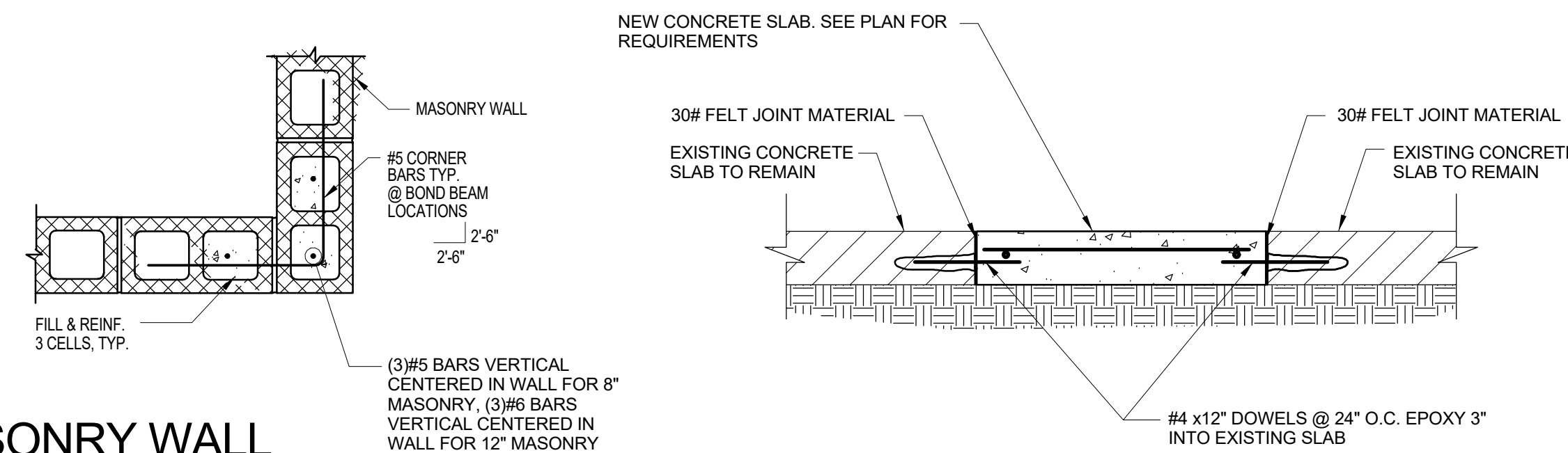
**C2** BASEPLATE AND ANCHOR BOLT DETAILS  
SCALE: NTS



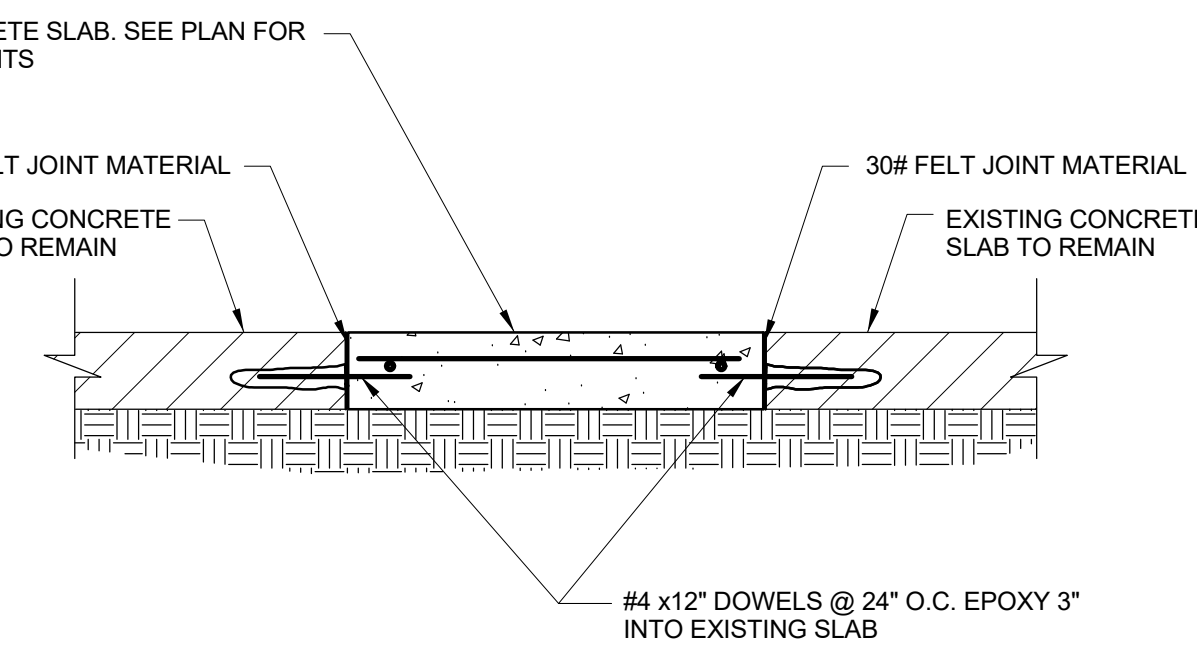
**B2** MASONRY WALL  
DETAIL AT ENDS OF  
WALLS & AT OPENINGS  
SCALE: NTS



**B3** MASONRY WALL  
CONTROL JOINT DETAIL  
AT 30'-0" O.C. MAXIMUM  
SCALE: NTS  
NOTE: SEE ARCHITECTURAL  
DRAWINGS FOR EXACT  
LOCATIONS



**B4** MASONRY WALL  
DETAIL AT CORNERS  
SCALE: NTS

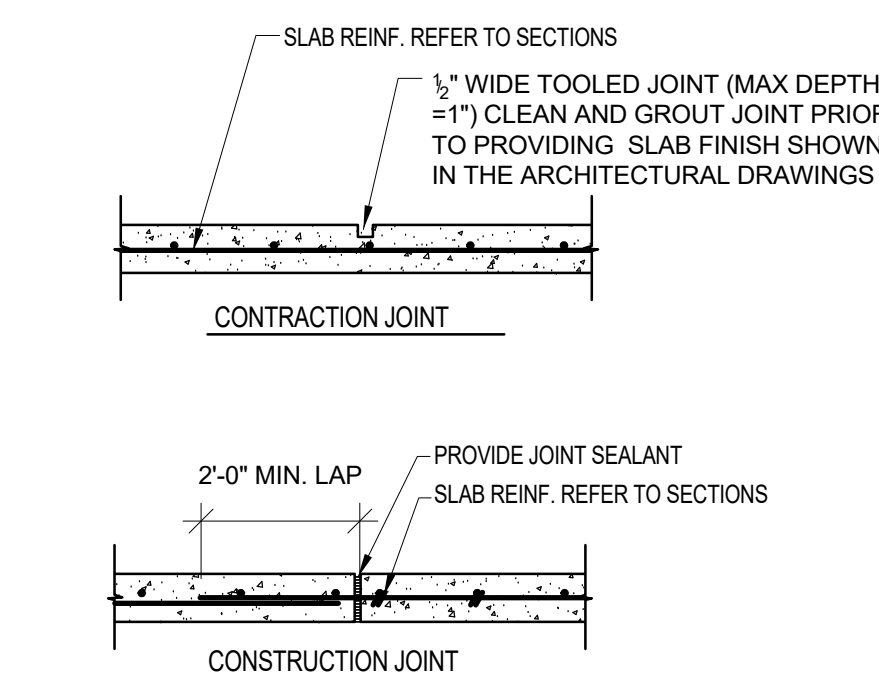


**B6** SLAB REPAIR DEAIL  
SCALE: NTS

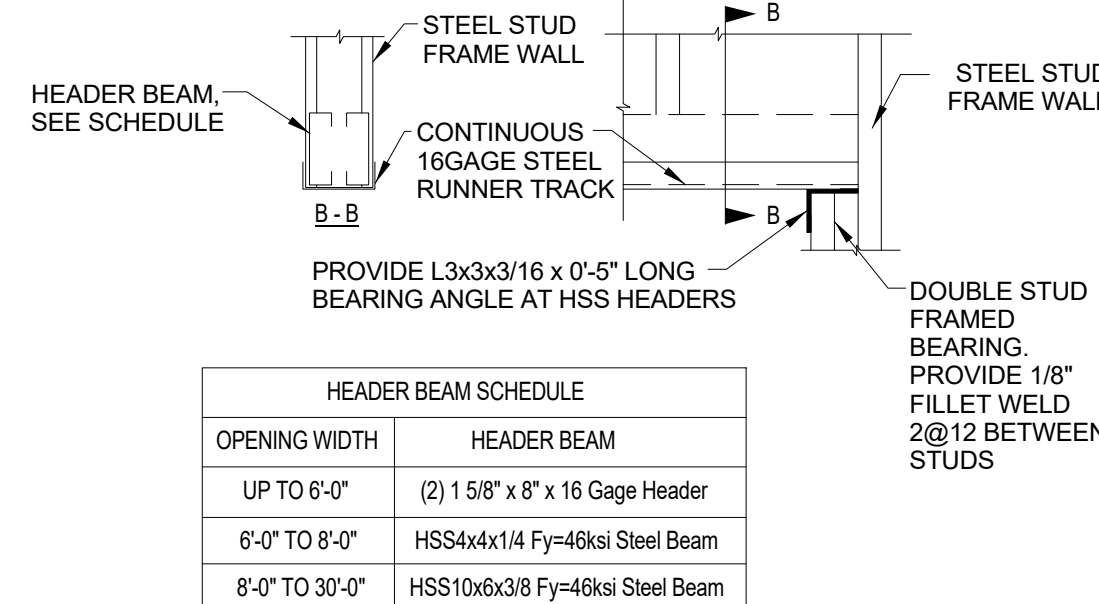
#### SPOT FOOTING SCHEDULE

MARK	FOOTING SIZE	REINFORCEMENT	ANCHOR BOLT SIZE & TYPE
1	3'-0" x 3'-0" x 1'-0"	(3) #5 E.W. BOTTOM	(4) 3/4" DIA. F1554 TYPE 1(EMBED DEPTH = 9")
2	3'-6" x 3'-6" x 2'-0"	#6 @ 8" O.C. E.W. TOP & BOTTOM	(4) 1" DIA. F1554 TYPE 1(EMBED DEPTH = 12")
3	4'-6" x 4'-6" x 2'-0"	#6 @ 8" O.C. E.W. TOP & BOTTOM	(4) 1" DIA. F1554 TYPE 1(EMBED DEPTH = 12")
4	6'-0" x 6'-0" x 2'-0"	#6 @ 8" O.C. E.W. TOP & BOTTOM	(4) 1" DIA. F1554 TYPE 1(EMBED DEPTH = 12")
5	3'-6" x 3'-6" x 1'-0"	(4) #5 E.W. BOTTOM	(4) 3/4" DIA. F1554 TYPE 1(EMBED DEPTH = 9")
6	2'-6" x 2'-6" x 1'-0"	(3) #5 E.W. BOTTOM	(4) 3/4" DIA. F1554 TYPE 1(EMBED DEPTH = 9")

**A4** SPOT FOOTING SCHEDULE  
SCALE: NTS



**A2** CONCRETE SLAB  
JOINT DETAILS  
SCALE: NTS



**A3** NON-LOAD BEARING LIGHT  
GAGE HEADER DETAIL  
SCALE: NTS

MARK

DATE

DESCRIPTION

ISSUE FOR CONSTRUCTION

JULY 20, 2018

APPROVED

ARCHITECTURAL

MECHANICAL

ELECTRICAL

PLUMBING

STAMP

REGISTERED PROFESSIONAL ENGINEER

REGISTERED PROFESSIONAL ARCHITECT

REGISTERED PROFESSIONAL MECHANICAL ENGINEER

REGISTERED PROFESSIONAL ELECTRICAL ENGINEER

REGISTERED PROFESSIONAL PLUMBING ENGINEER

7/20/18

Consultant

INDIAN HEALTH SERVICE

INDIAN HEALTH SERVICE

OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING

ALBUQUERQUE AREA OFFICE

4101 Indian School Road NE

Albuquerque, New Mexico

87110

DRWN BY

BMR

CHKD BY

RSP

SCALE

1/4" = 1'-0"

DATE

S-2

PROJECT NUMBER

HHS16120031

HHS16109267

SHEET

of

GENERAL STRUCTURAL DETAILS

MESCALERO SERVICE UNIT

3118 ABALONE LOOP MESCALERO, NM 86033

OTERO COUNTY

RENOVATION & ADDITION

A

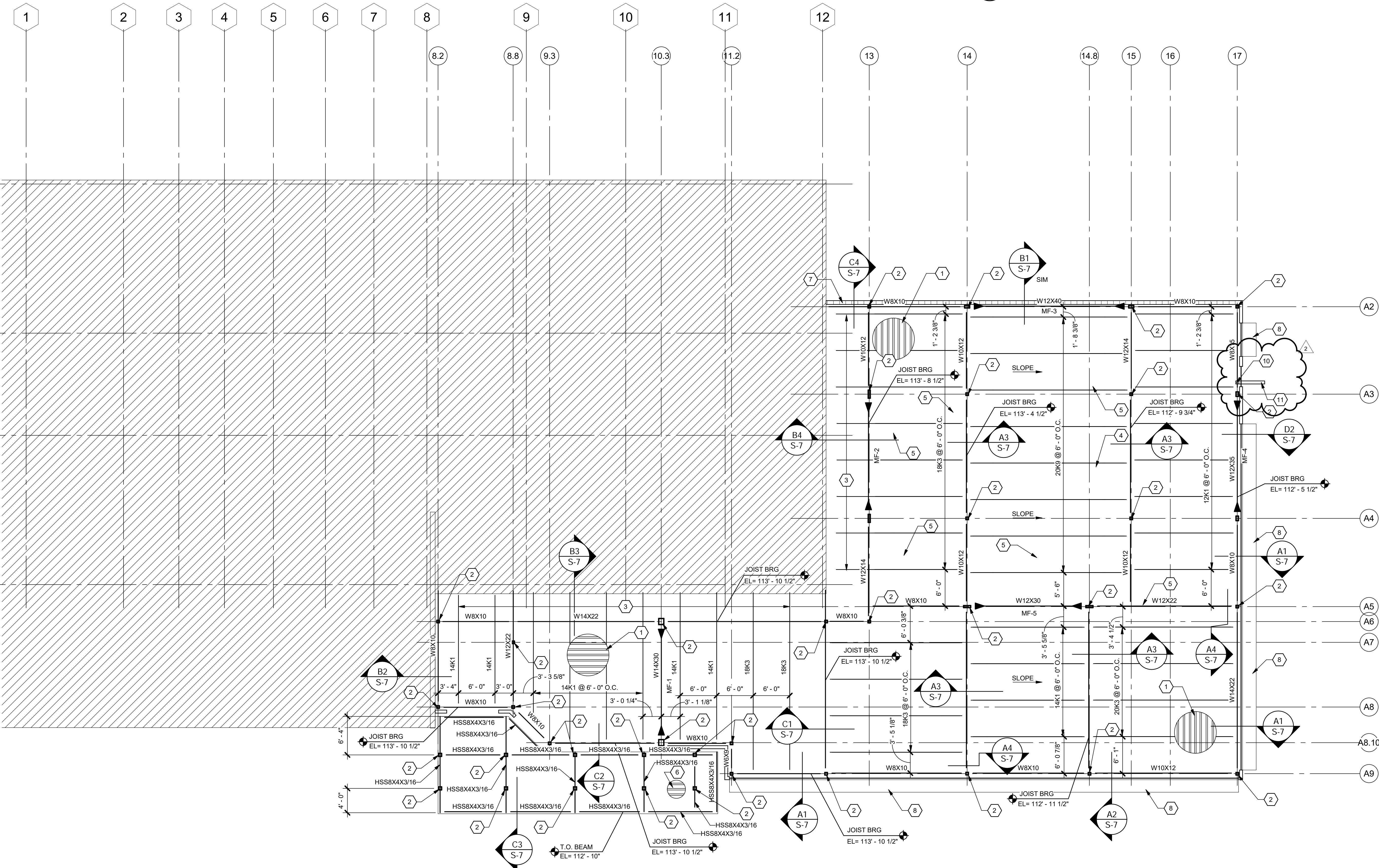




## FOUNDATION PLAN



C:\Users\rodriq\Documents\5135.01\_IHS\_MESCALERO\_STRUCT\_R2020\_rodriguez@qpec.org.rvt



**A1** ROOF FRAMING PLAN  
Scale: 1/8" = 1'-0"

**D5** MECH/ELEC. RM ROOF FRAMING PLAN  
Scale: 1/4" = 1'-0"

## GENERAL NOTES

## KEYED NOTES

- 1-1/2" TYPE B 22 GAGE METAL DECK Fy=33ksi PAINTED METAL DECK WITH MINIMUM SECTION PROPERTIES I=0.155 IN<sup>4</sup>, Sp=0.188 IN<sup>3</sup>, Sn=0.192 IN<sup>3</sup>. ATTACH DECK WITH 3614 PATTERN OF 5/8" PUDDLE WELDS @ SUPPORTS AND BOUNDARIES AND 7/16" TEK SCREWS @ SIDE LAPS.
- STEEL COLUMN, SEE FOUNDATION PLAN.
- JOIST MANUFACTURER SHALL DESIGN JOIST EXTENSION IN ACCORDANCE WITH THE LOADING SHOWN ON SHEET S-2.
- MECHANICAL UNIT RTU-1 = 2.663K.
- MECHANICAL UNIT RTU-2 = 0.833K.
- 3N 20GAGE 2 SPAN MIN WITH 244 PATTERN OF #12 TEK SCREWS TO SUPPORTS & #10 TEK SCREWS @ SIDE LAPS(3 CONNECTIONS PER SPAN).
- PROVIDE BLOCKOUT IN CMU WALL FOR ELECTRICAL CONDUIT PENETRATION. PROVIDE (2)#5 BARS IN LINTEL OVER BLOCKOUT. COORDINATE LOCATION AND LENGTH OF BLOCKOUT WITH ELECTRICAL. MAX WIDTH OF BLOCKOUT SHALL BE THREE COURSES.
- SEE SECTION S-7 FOR LINTEL SUPPORT REQUIREMENTS.
- HSS 4X14 STEEL BEAM.
- SWING BOOM WITH 500LB LIFTING CAPACITY.
- MANUAL HOIST PER OWNER.

## LEGEND

- 8" CMU WALL W/#6 VERTICAL @ 32 O.C. CENTERED IN WALL. PROVIDE (5)#6 IN LAST 5 CELLS EACH END. SOLID GROUT ALL REINFORCED CELLS.
- 1-5/8"x16"x18GA STEEL STUDS @ 16" O.C. @ AT ALL EXTERIOR WALL LOCATIONS.
- LI# LINTEL, SEE SCHEDULE ON SHEET S-2.
- MF-# MOMENT FRAME, SEE SHEET S-5 FOR MOMENT FRAME ELEVATIONS.

MARK	DATE	DESCRIPTION
02	09/24/21	AMENDMENT 002
APPROVED	10/14/21	ARCHITECTURAL
APPROVED		MECHANICAL
APPROVED		ELECTRICAL
APPROVED		PLUMBING

STAMP

INDIAN HEALTH SERVICE  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

CONSULTANT

INDIAN HEALTH SERVICE  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 86033 OTERO COUNTY

RENOVATION & ADDITION

FRAMING PLAN

DRWN BY  
RMR

CHKD BY  
RSP

SCALE  
1/4" = 1'-0"

DATE  
09/24/21

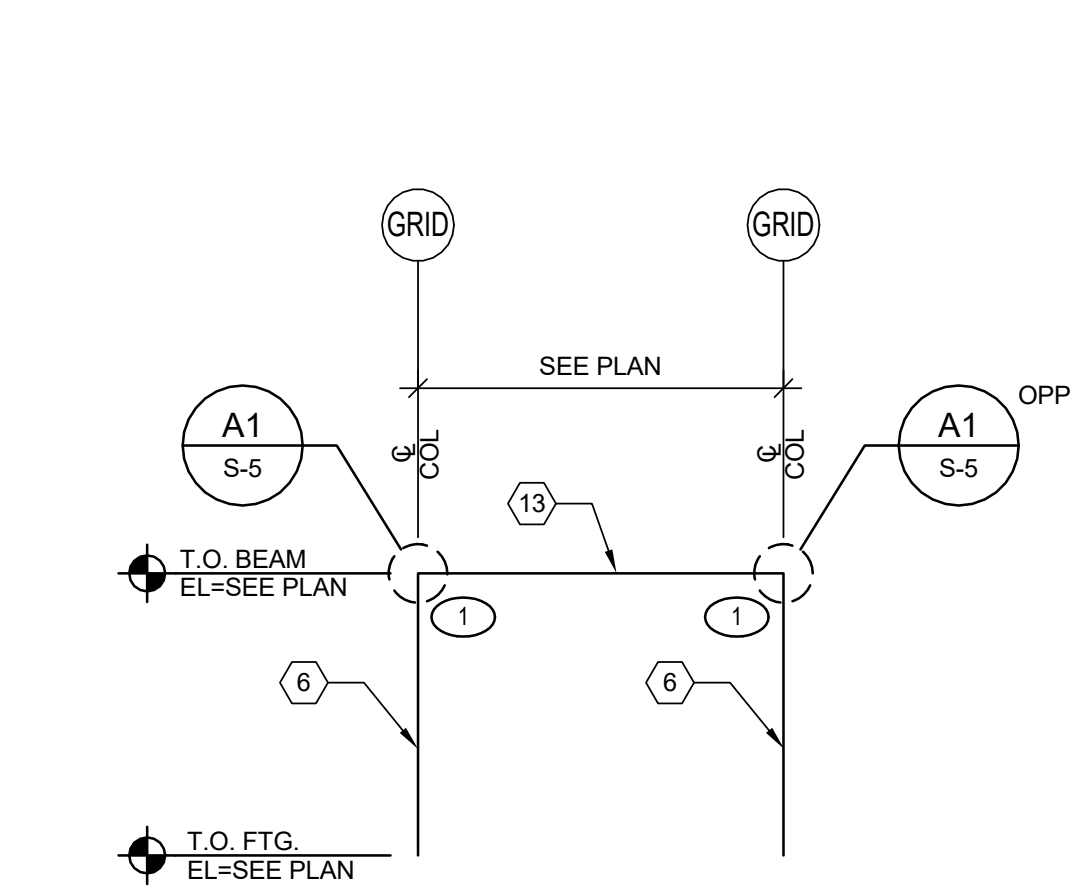
S-4

PROJECT NUMBER  
HHS16120031  
HHS1610926T

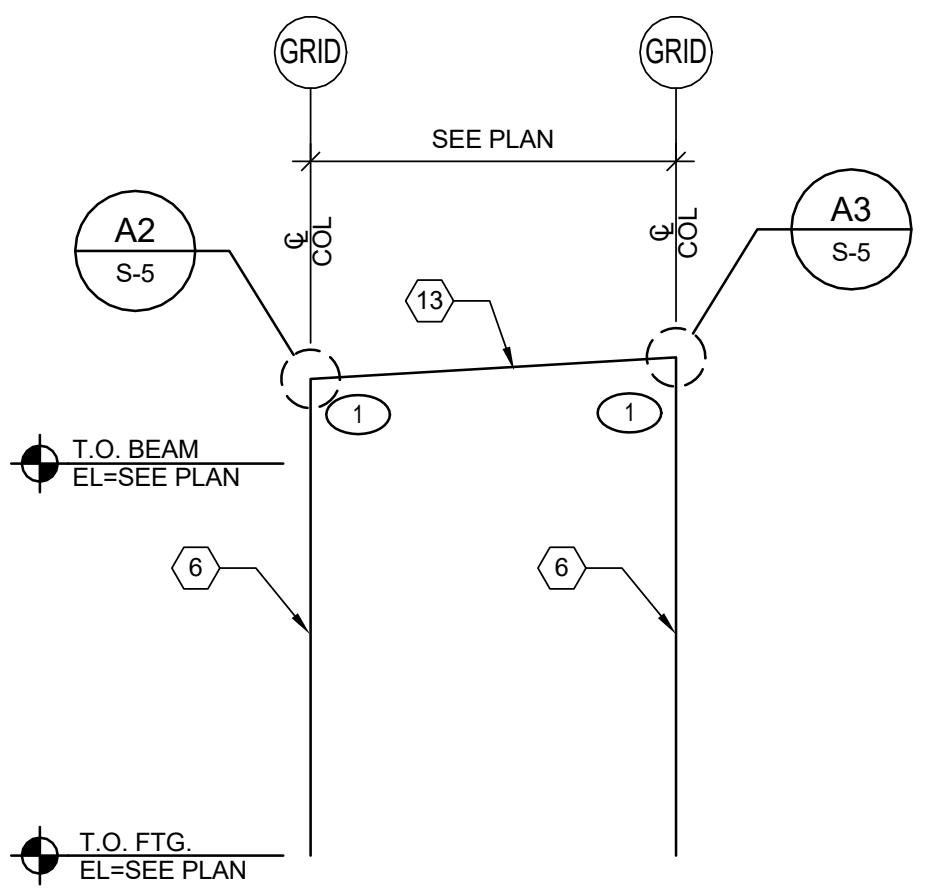
SHEET of



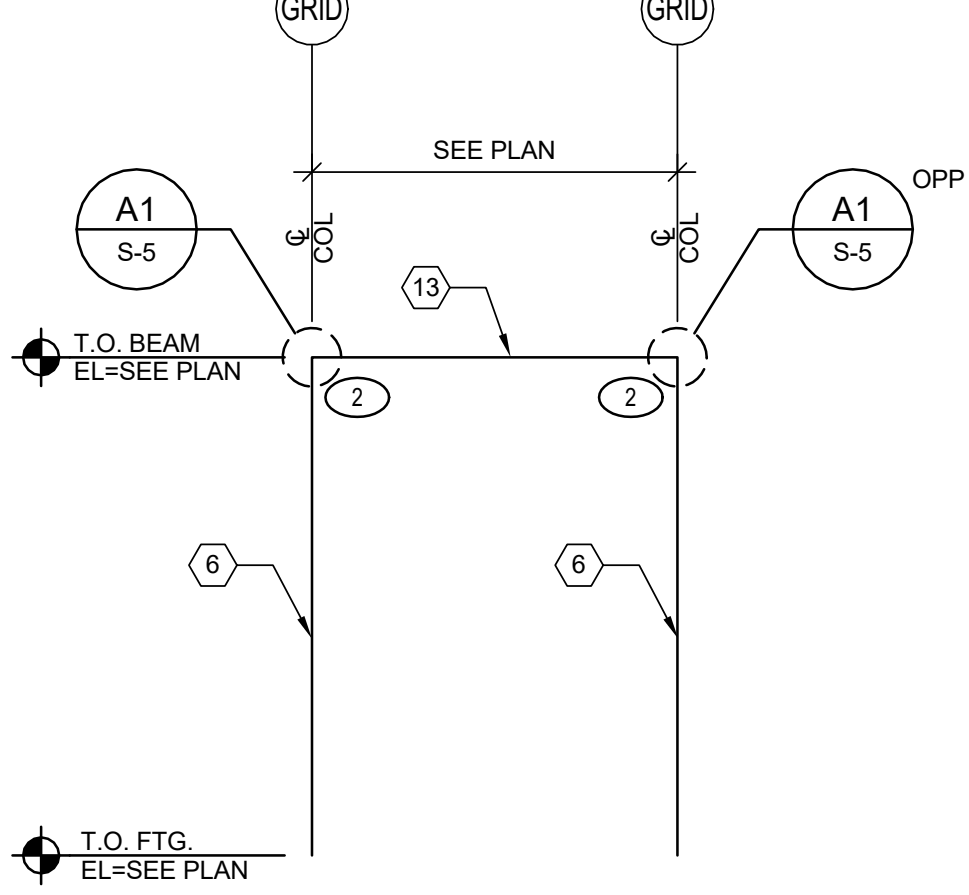
BIM 360//2017.009 Mescalero Indian Hospital Renovation/5135.01\_IHS\_MESCALERO\_STRUCT\_R2017.rvt



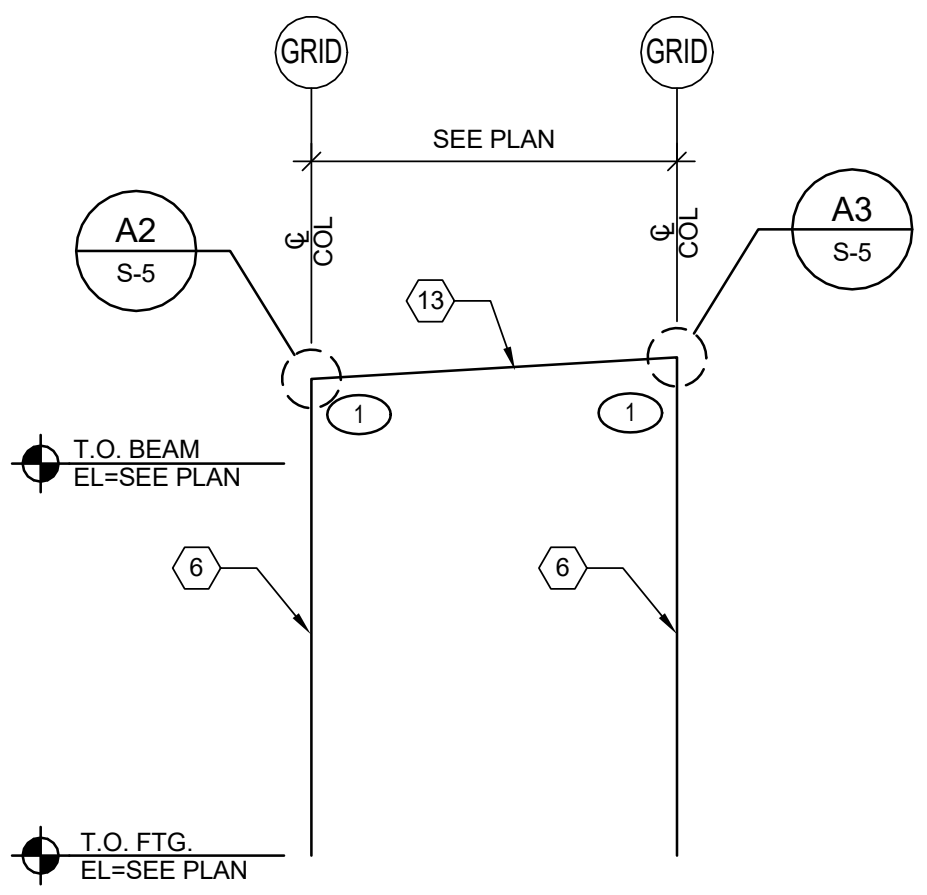
D1 MOMENT FRAME (MF-1)  
SCALE: N.T.S.



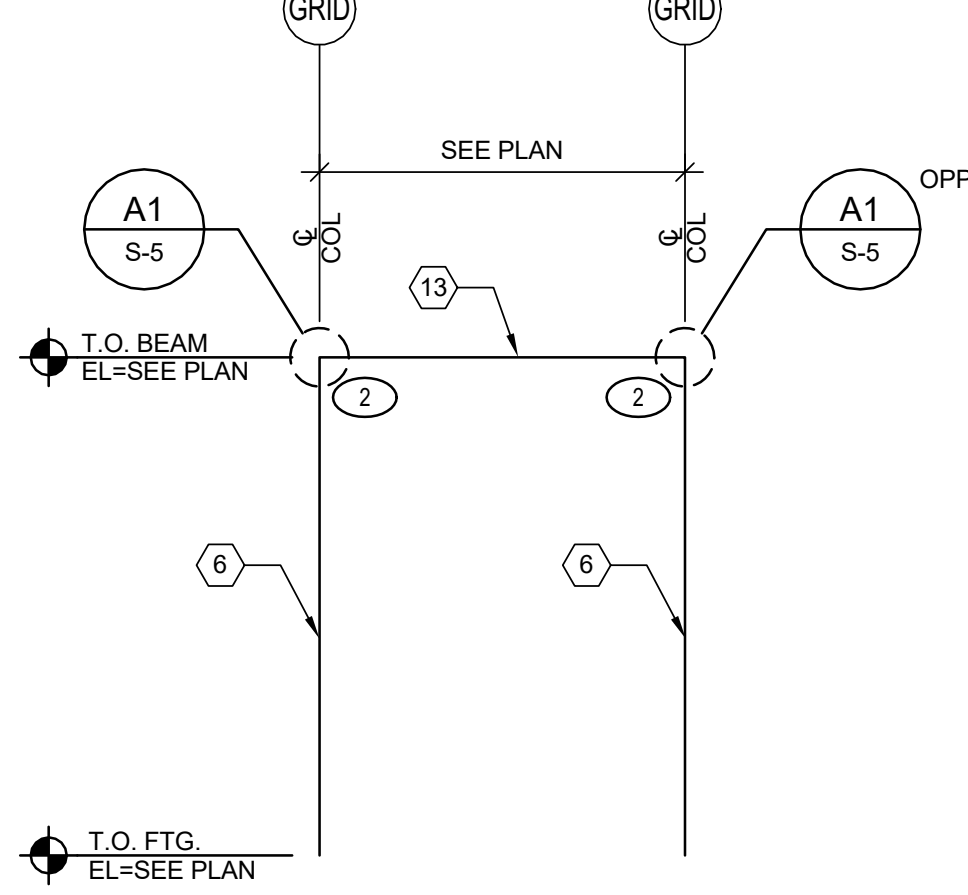
D2 MOMENT FRAME (MF-2)  
SCALE: N.T.S.



D3 MOMENT FRAME (MF-3)  
SCALE: N.T.S.



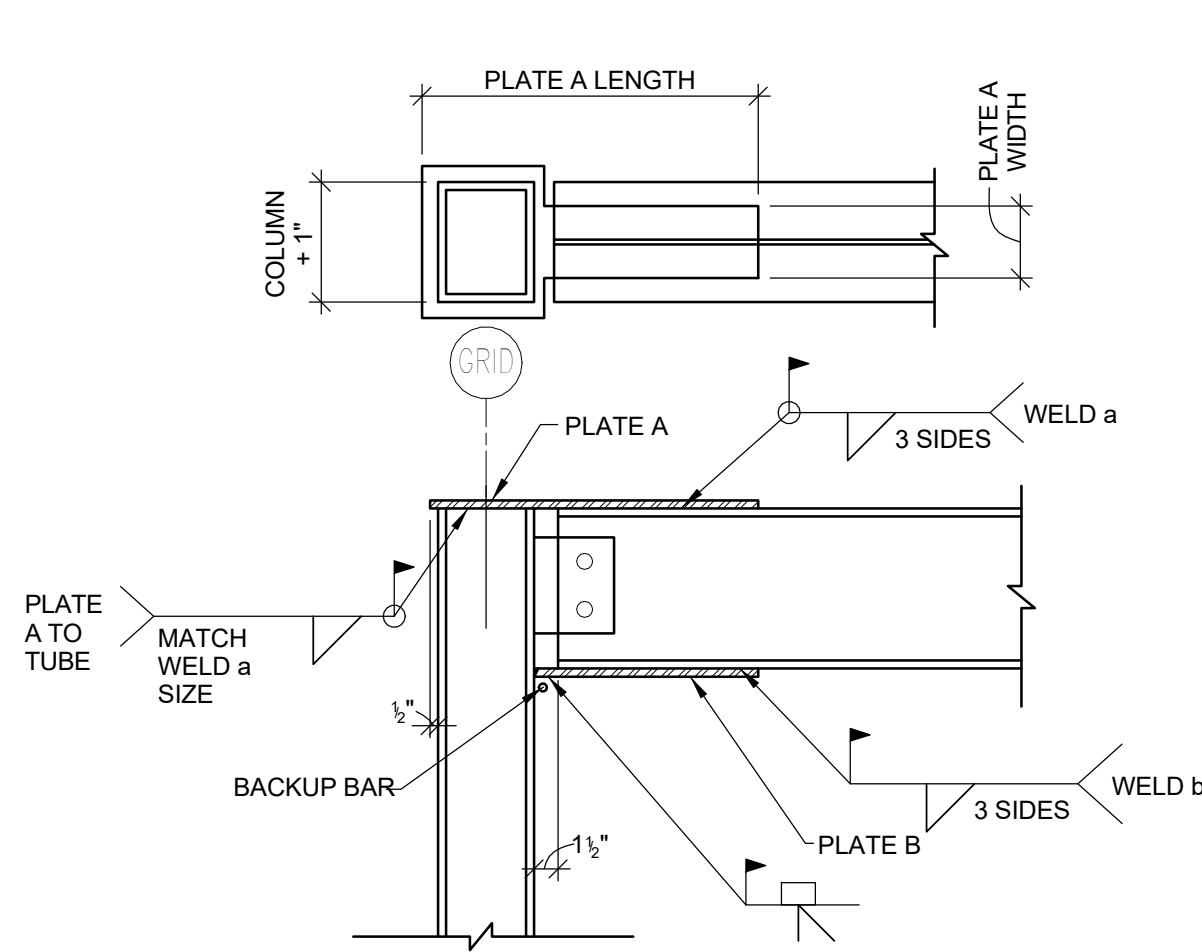
D4 MOMENT FRAME (MF-4)  
SCALE: N.T.S.



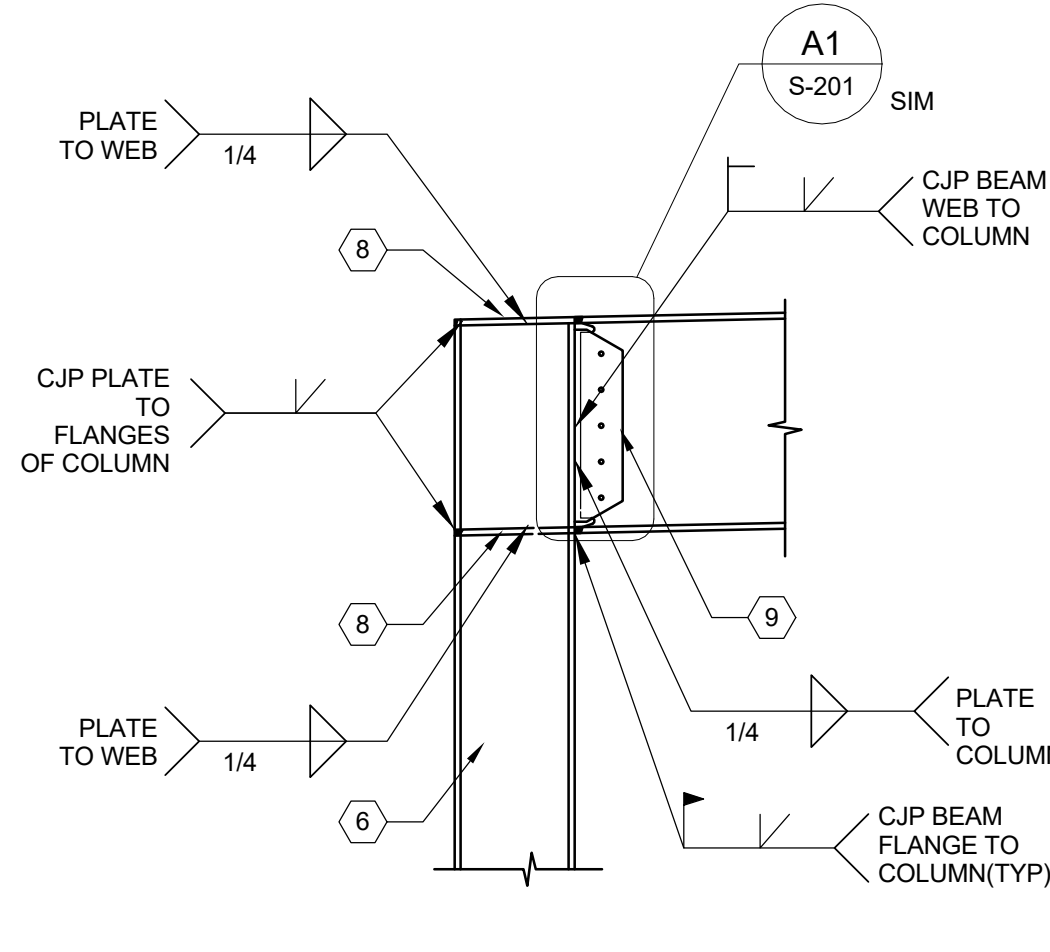
D5 MOMENT FRAME (MF-5)  
SCALE: N.T.S.

MOMENT FRAME CONNECTION SCHEDULE (IN.)										
TYPE	PLATE "A"			WELD "a"		PLATE "B"			WELD "b"	
	WIDTH	LENGTH	THICKNESS	SIZE	LENGTH	WIDTH	LENGTH	THICKNESS	SIZE	LENGTH
1	4-1/2"	19"	3/8"	1/4"	20-1/2"	4-1/2"	9-1/2"	3/8"	1/4"	21-1/2"
2	3"	15"	3/8"	1/4"	15"	4-1/2"	9-1/2"	3/8"	1/4"	20"
3	4-1/2"	17"	3/8"	1/4"	20-1/2"	4-1/2"	9-1/2"	3/8"	1/4"	21-1/2"

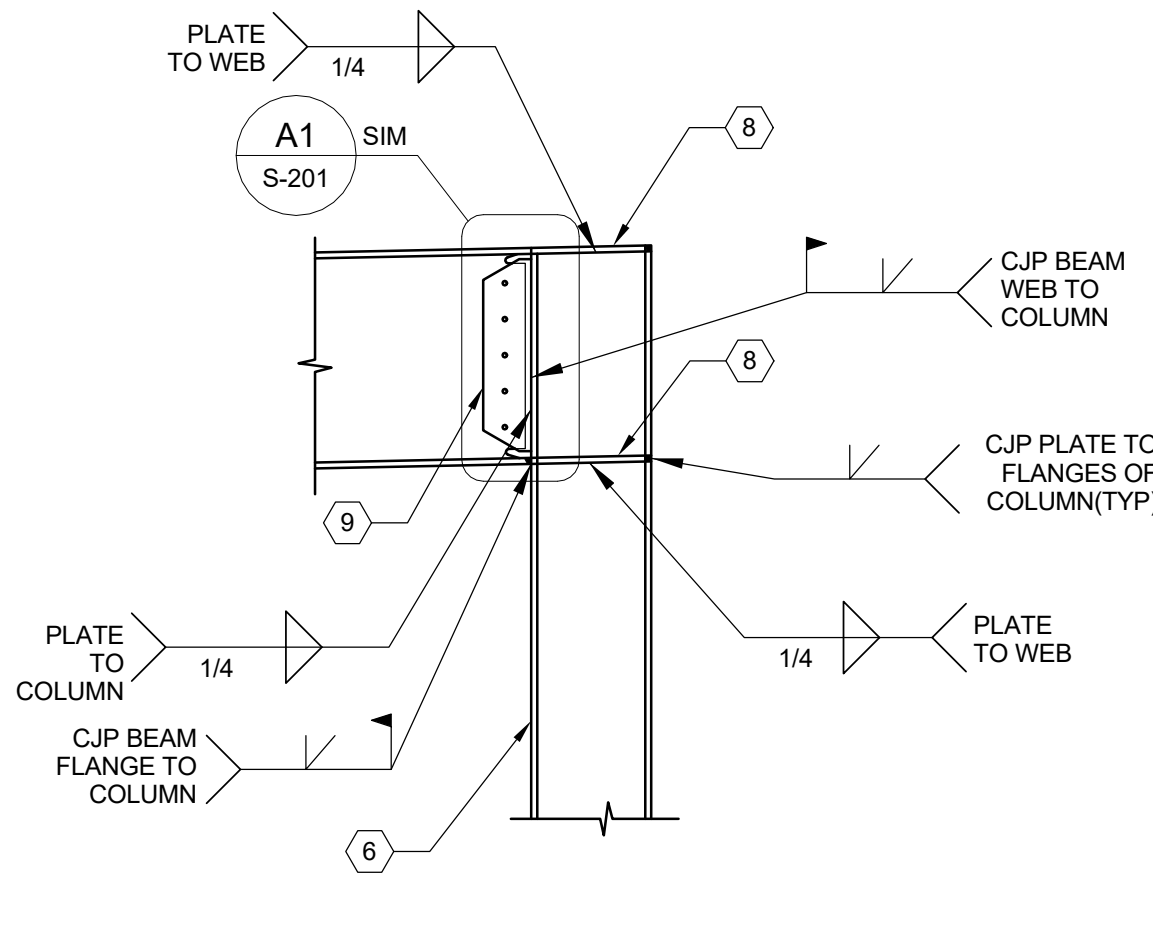
C1 MOMENT FRAME CONNECTION SCHEDULE  
SCALE: N.T.S.



A1 SECTION  
SCALE: N.T.S.



A2 SECTION  
SCALE: N.T.S.



A3 SECTION  
SCALE: N.T.S.

## GENERAL NOTES

1. ALL OF THE HOLES FOR THE ANCHORBOLTS IN THE BASEPLATES OF THE MOMENT FRAMES SHALL BE 1/16" DIAMETER LARGER THAN THE BOLT DIAMETER OR THE CONTRACTOR SHALL PROVIDE OVERSIZED HOLES AND 1/4" THICK x 3"x3" WELD WASHERS. THE WELD WASHERS SHALL HAVE HOLES 1/16" DIAMETER LARGER THAN THE BOLT DIAMETER AND SHALL BE FIELD WELDED TO THE BASEPLATE WITH 1/4" FILLET WELD ALL AROUND.
2. ON ALL CJP PROVIDE BACKER PLATE OR BACK GOUGE WELD.

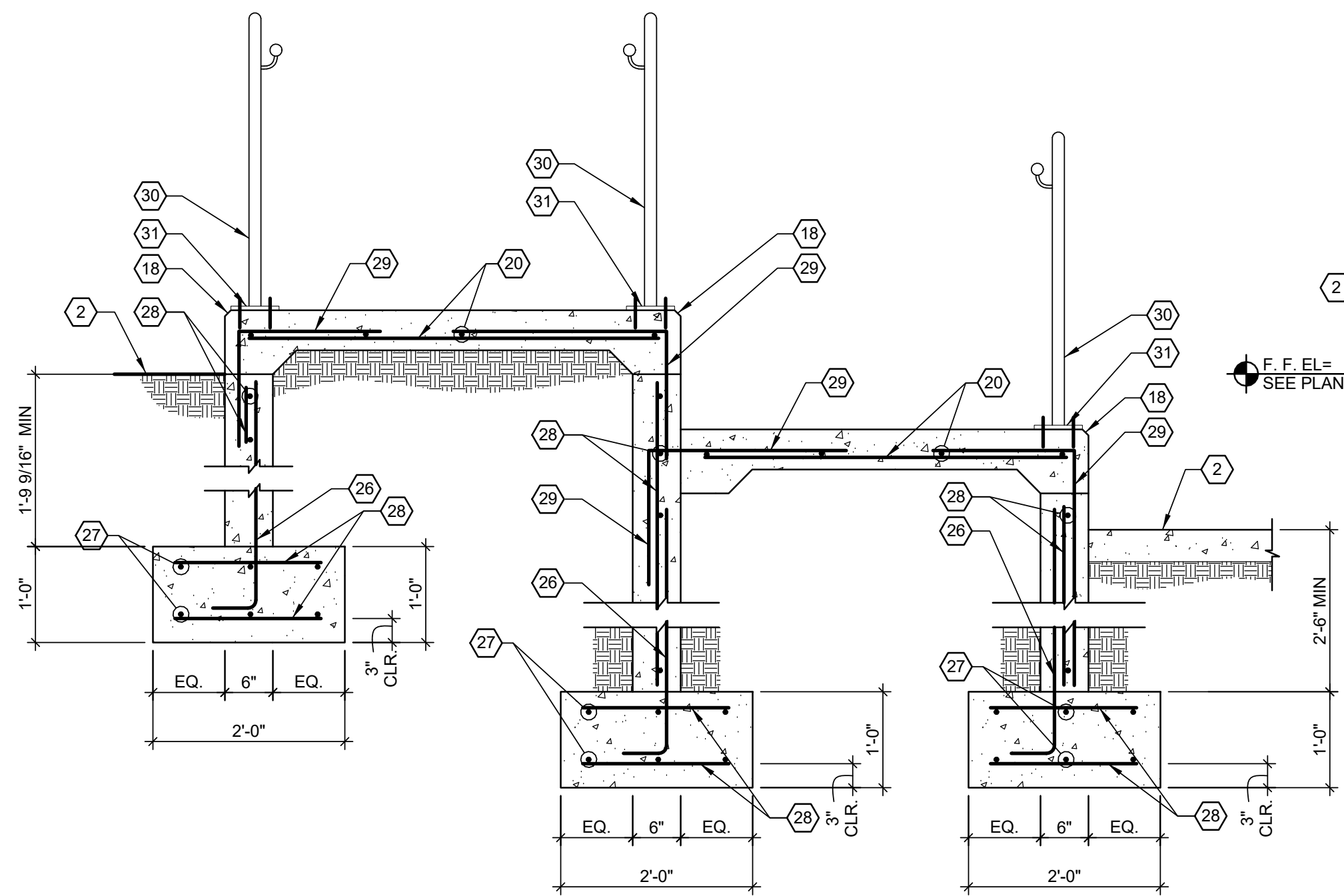
## KEYED NOTES

1. DECK ANGLE, SEE SECTIONS
2. (2) FULL HEIGHT STUDS. PROVIDE 1/2" WELD OF STUDS 1" LONG @ 12" O.C.
3. METAL STUDS, SEE PLAN
4. HEADER, SEE FRAMING PLAN.
5. DOUBLE STUDS @ HEADER BEARING LOCATIONS
6. STEEL COLUMN, SEE FOUNDATION PLAN
7. 16 GA CONT. TRACK WHERE OPENING DOES NOT EXTEND TO FLOOR, SEE ARCH.
8. 3/8" THICK CONTINUITY PLATE EACH SIDE OF WEB
9. 3/8" SHEAR PLATE W/5/32" DIA. A325N THRU BOLTS
10. 16 GA. CONTINUOUS TRACK w/5/8" DIA. x 7" EMBED F1554 GRADE 36 ANCHOR BOLTS @ 4'-0" O.C. AND 1'-0" MAX FROM END OF SHEAR WALL
11. FOOTING, SEE SECTIONS ON SHEET S-6
12. 3/8" THICK PLATE FROM FLANGE TO FLANGE FO COLUMN.
13. STEEL BEAM, SEE ROOF FRAMING PLAN
14. 3/4" x 2" WELD ACCESS HOLES W/1/2" RADIUS

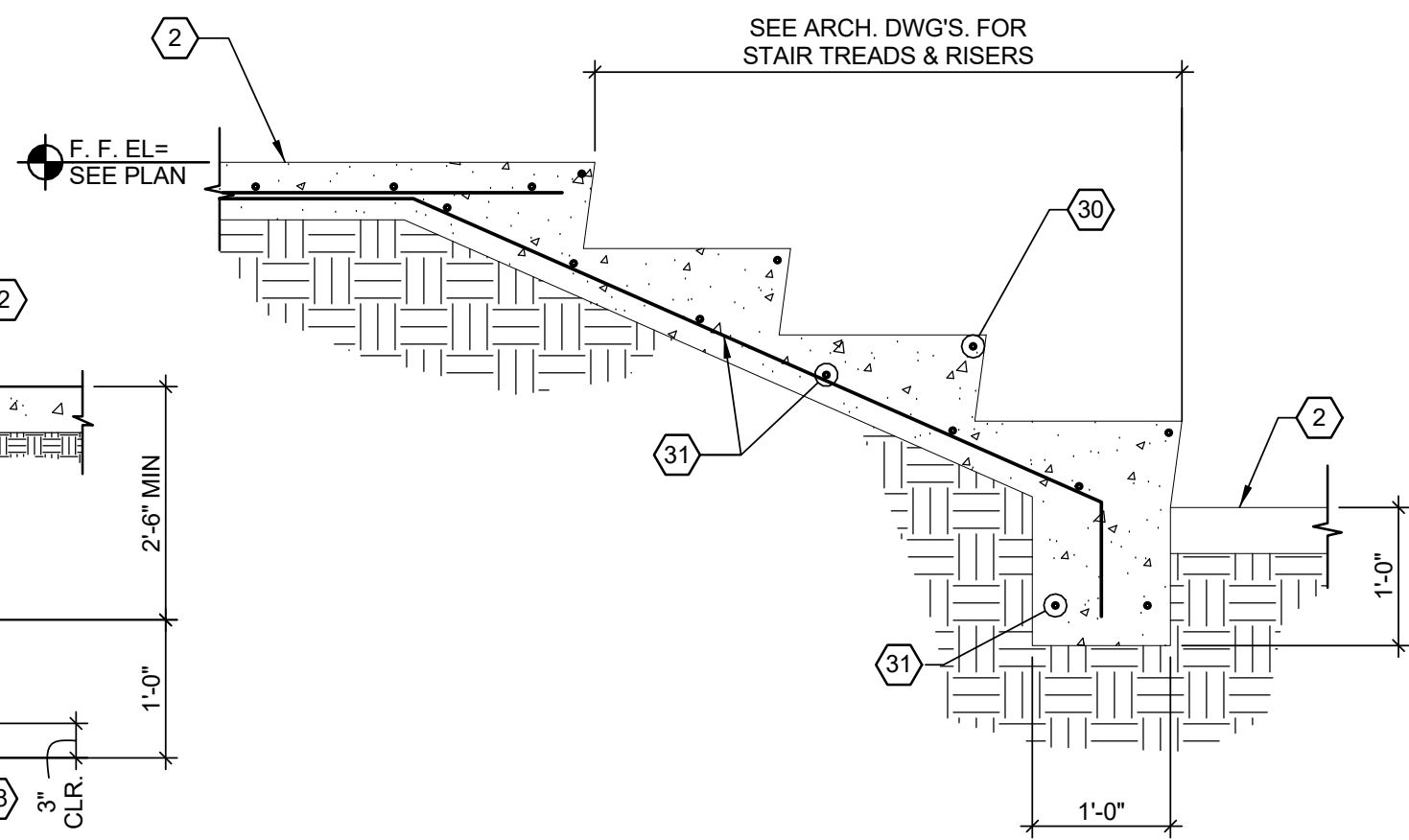
MARK	DATE	DESCRIPTION	ISSUE FOR CONSTRUCTION	PLUMBING
	JULY 20, 2018			
APPROVED				
STAMP				
Consultant				
INDIAN HEALTH SERVICE				
DEPARTMENT OF HEALTH AND HUMAN SERVICES				
INDIAN HEALTH SERVICE				
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING				
ALBUQUERQUE AREA OFFICE				
4101 Indian School Road NE				
Albuquerque, New Mexico				
87110				
MESCALERO SERVICE UNIT				
318 ABALONE LOOP MESCALERO, NM 86033				
OTERO COUNTY				
RENOVATION & ADDITION				
ELEVATIONS				
DRWN BY				
BMR				
CHKD BY				
RSP				
SCALE				
1/4" = 1'-0"				
DATE				
S-5				
PROJECT NUMBER				
HHS16120031				
HHS1610926T				
SHEET				
of				



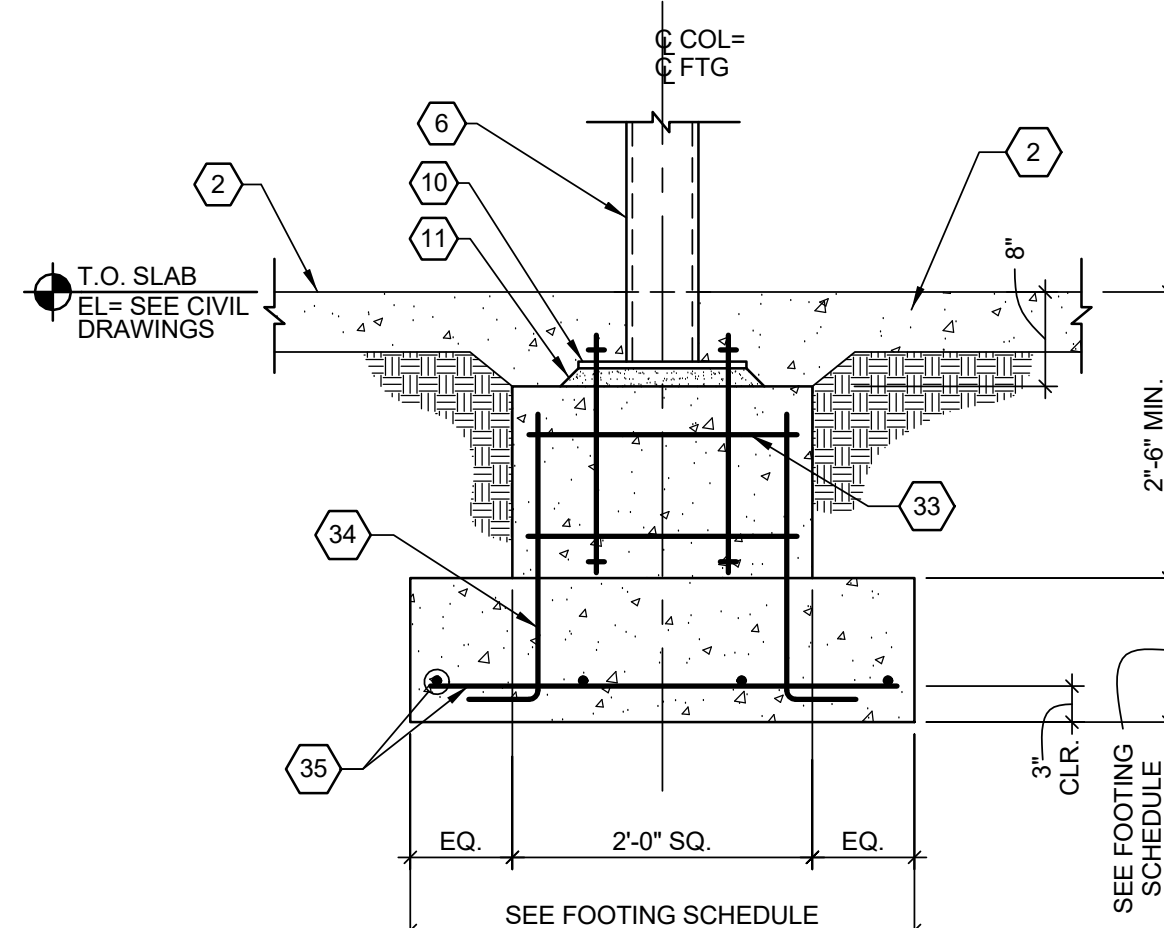
BIM 360//2017.009 Mesalero Indian Hospital Renovation/5135.01\_IHS MESCALERO\_STRUCT\_R2017.rvt



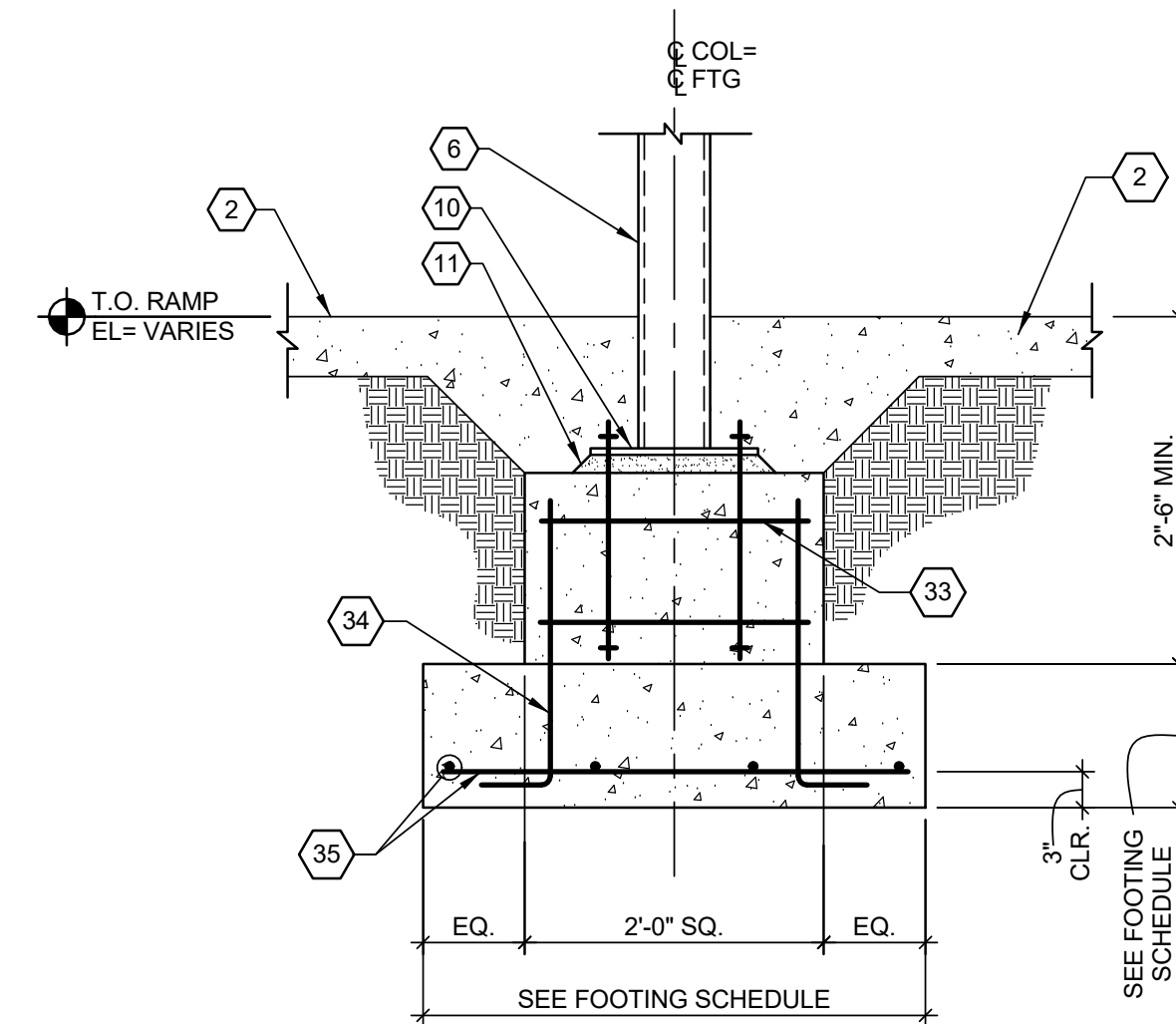
**C1** SECTION  
SCALE: 3/4\"=1'-0"



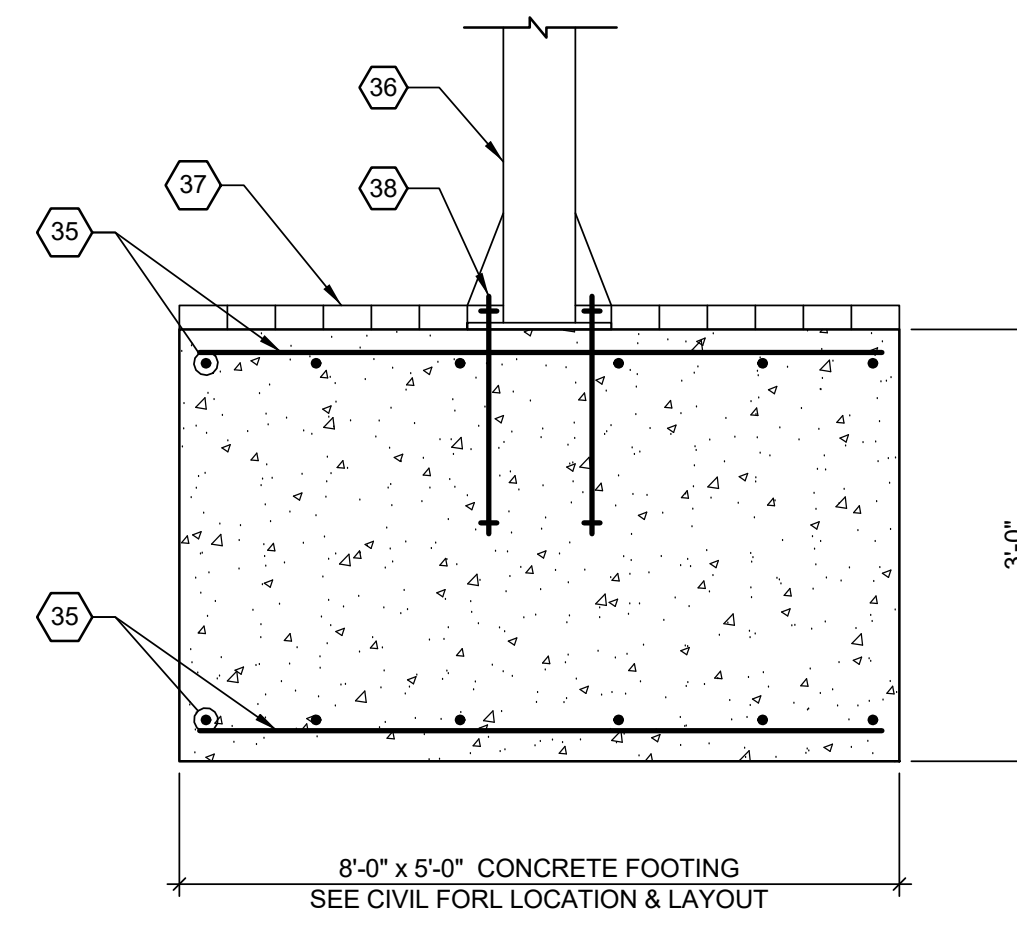
**C3** SECTION  
SCALE: 3/4\"=1'-0"



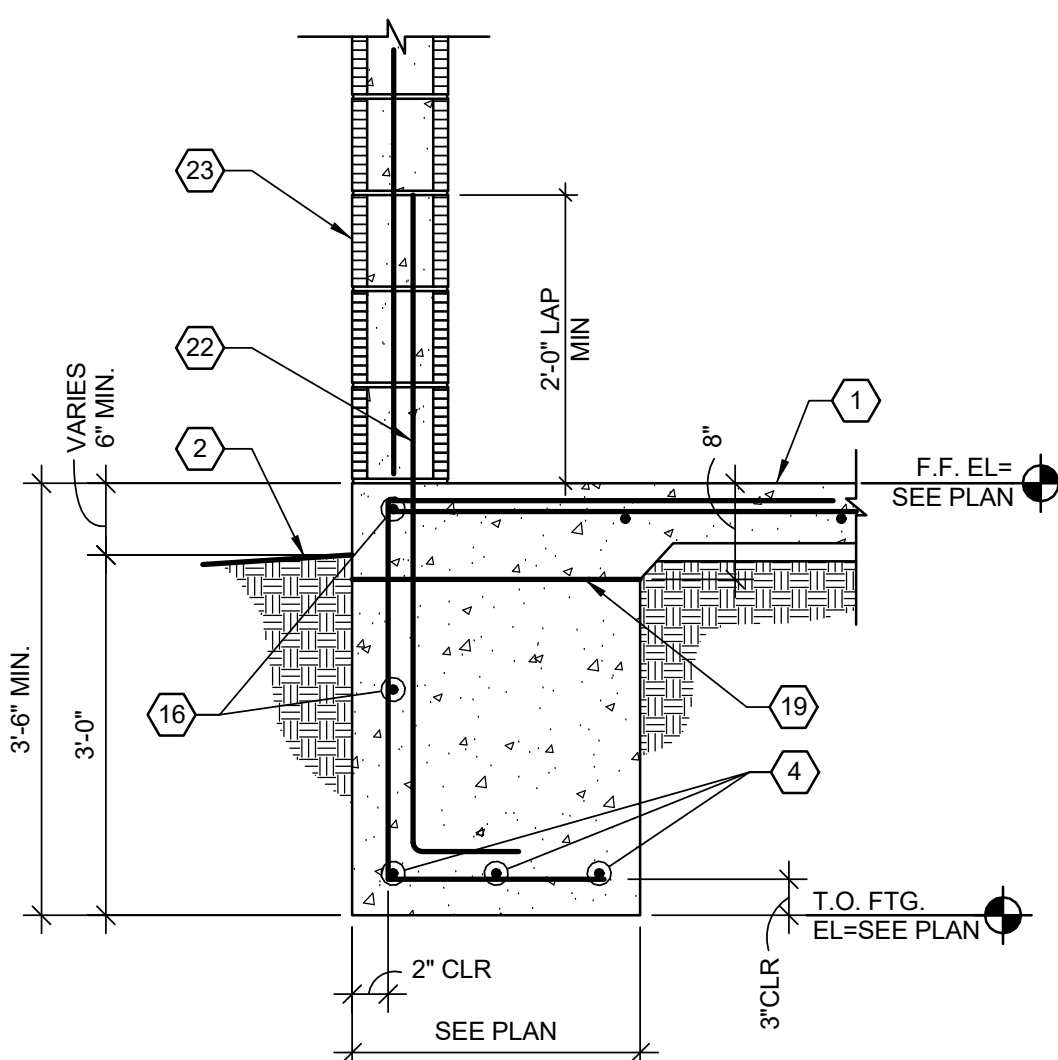
**C4** SECTION  
SCALE: 3/4\"=1'-0"



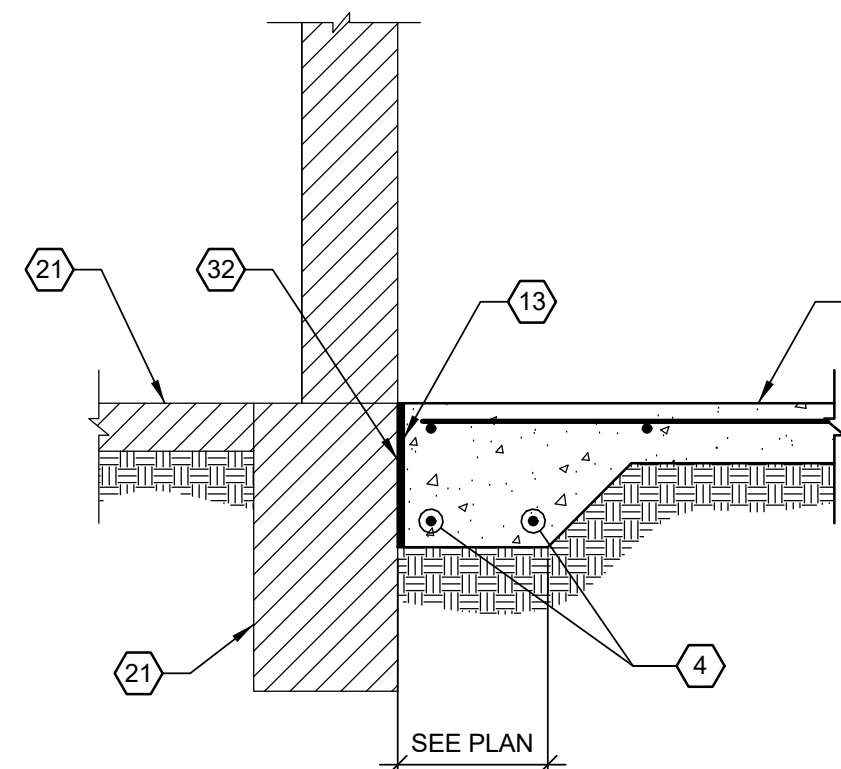
**D5** SECTION  
SCALE: 3/4\"=1'-0"



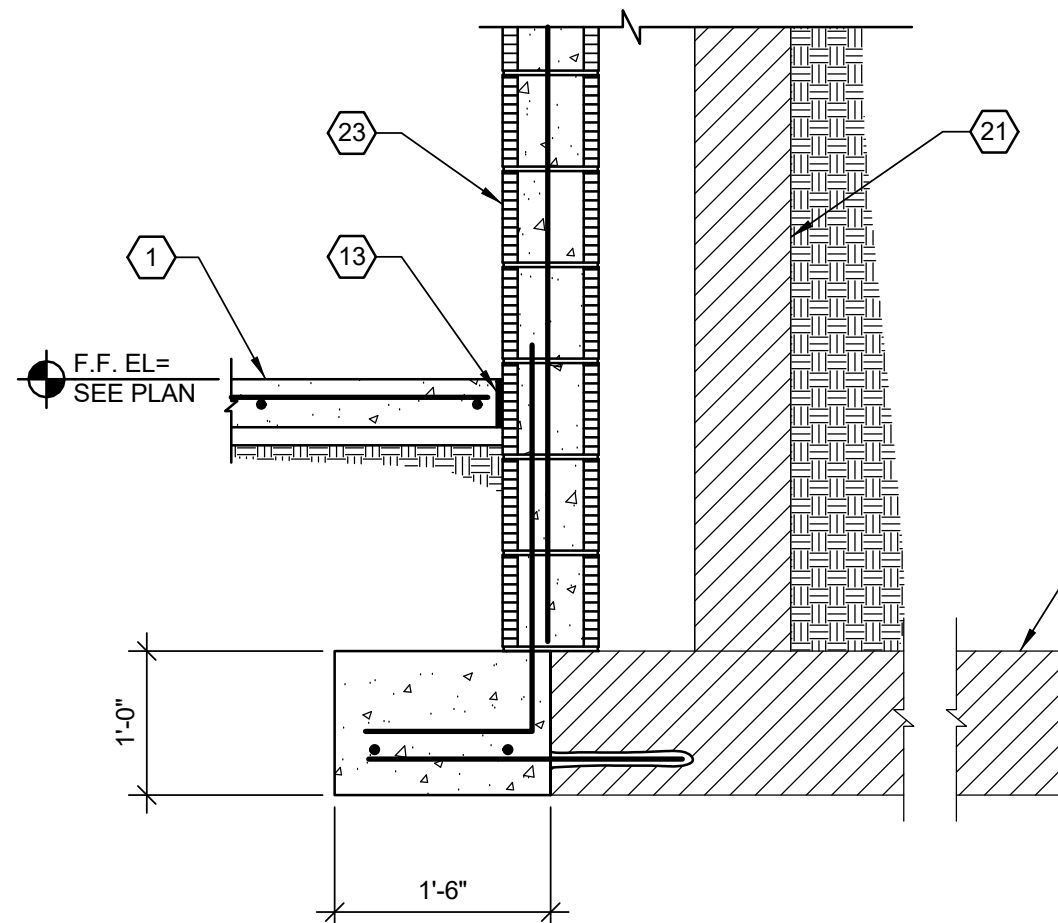
**C5** FLAG POLE FOUNDATION SECTION  
SCALE: 3/4\"=1'-0"



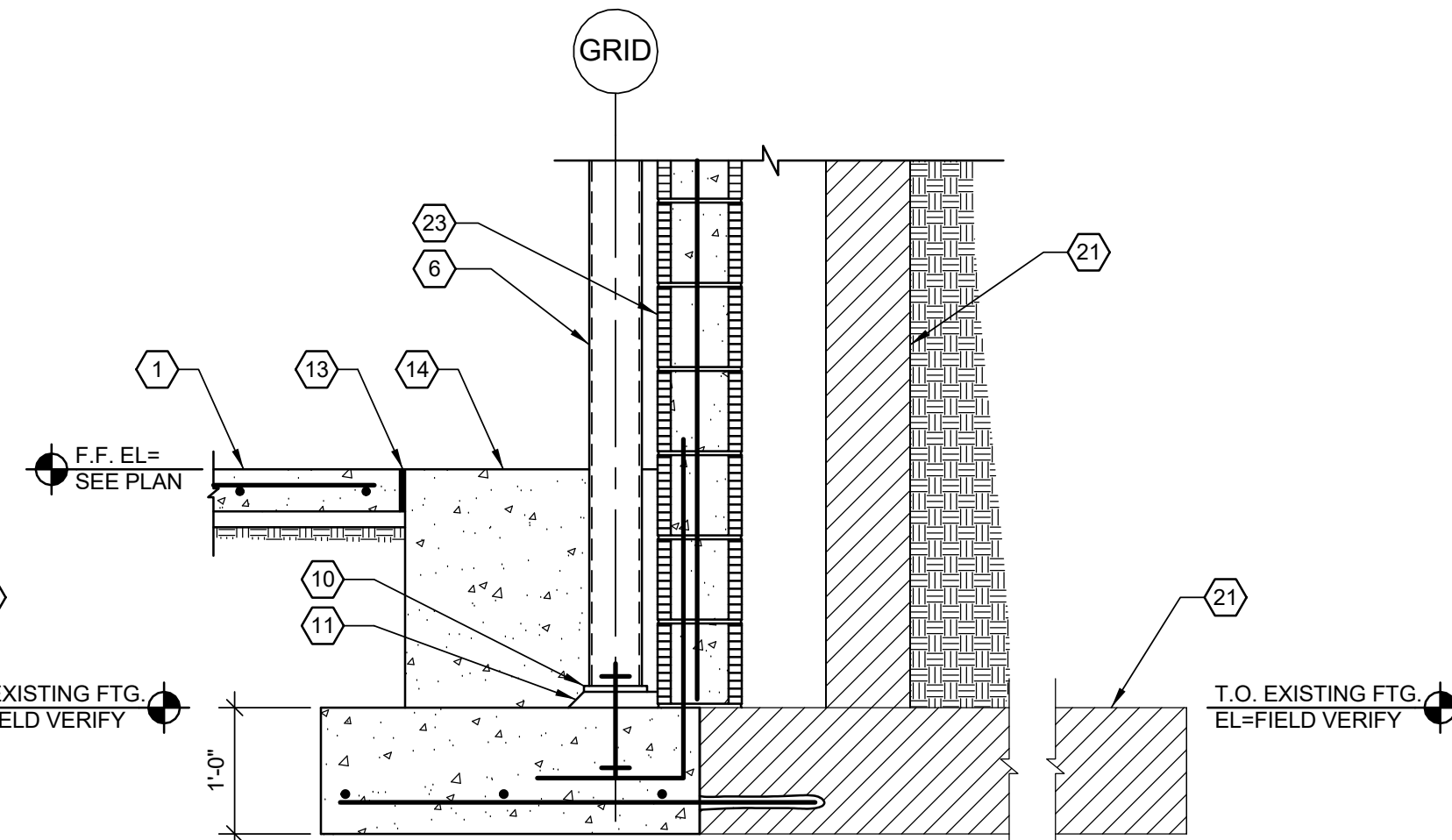
**B1** SECTION  
SCALE: 3/4\"=1'-0"



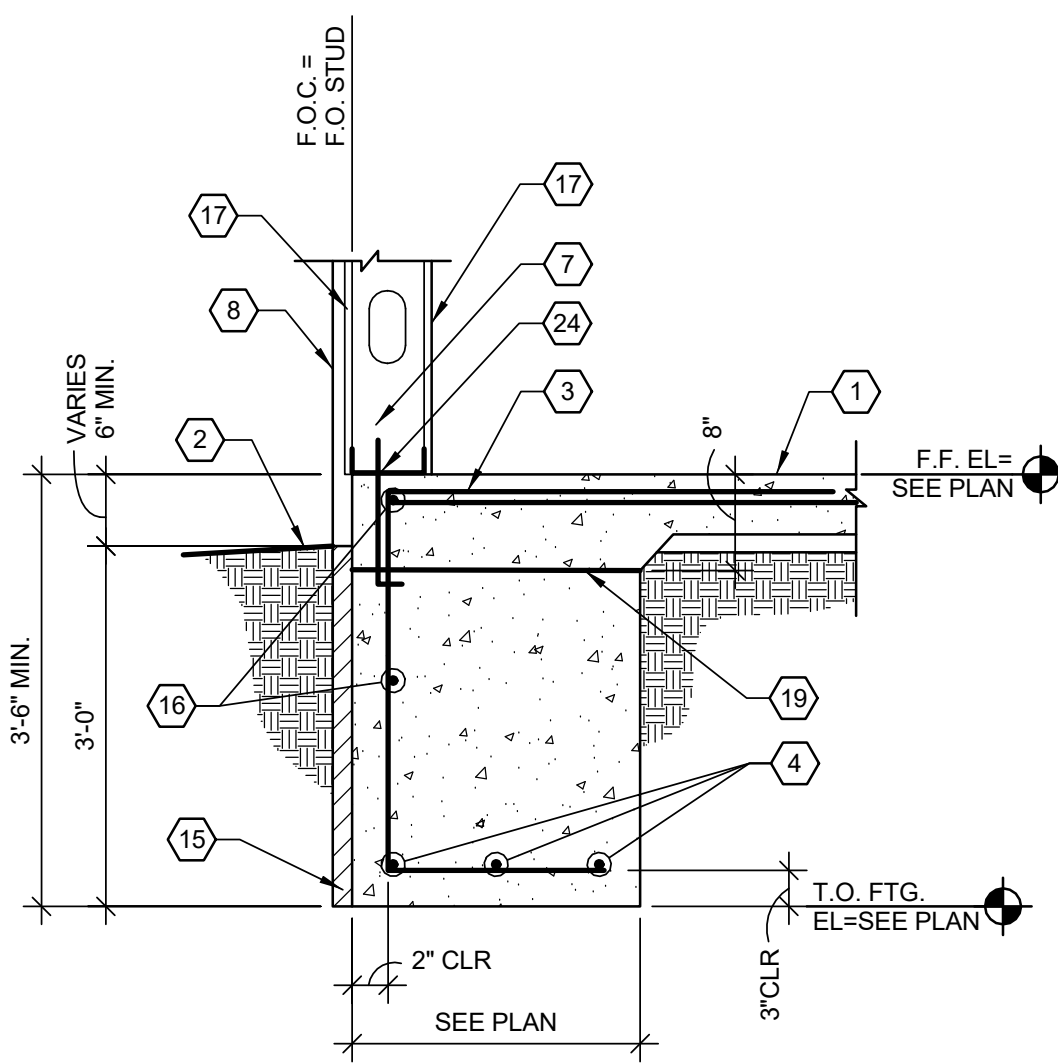
**B2** SECTION  
SCALE: 3/4\"=1'-0"



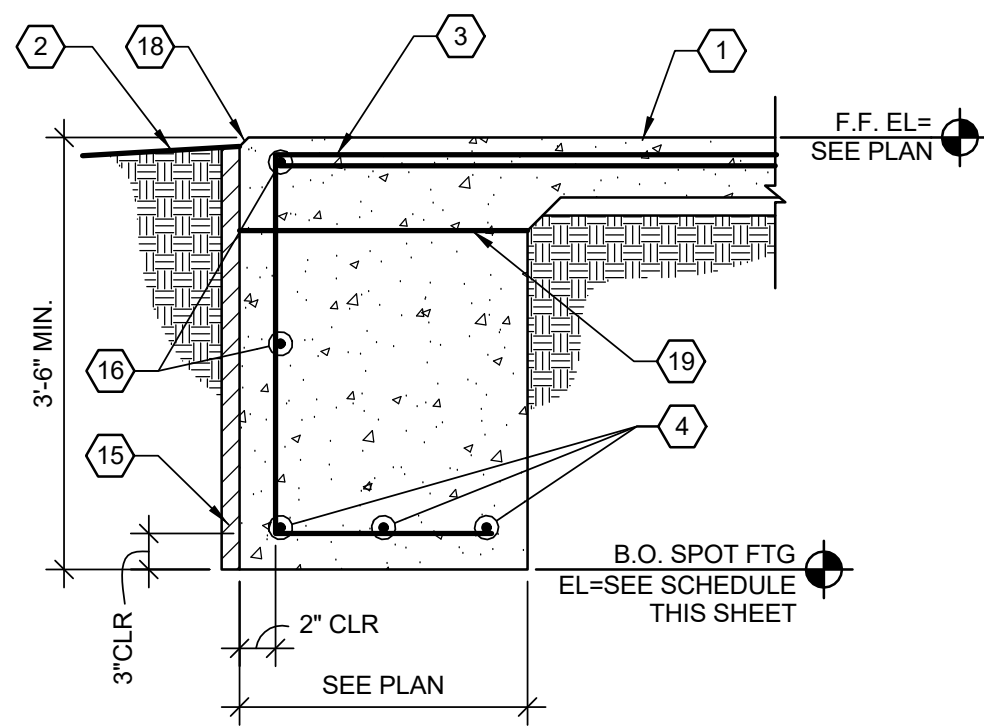
**B3** SECTION  
SCALE: 3/4\"=1'-0"



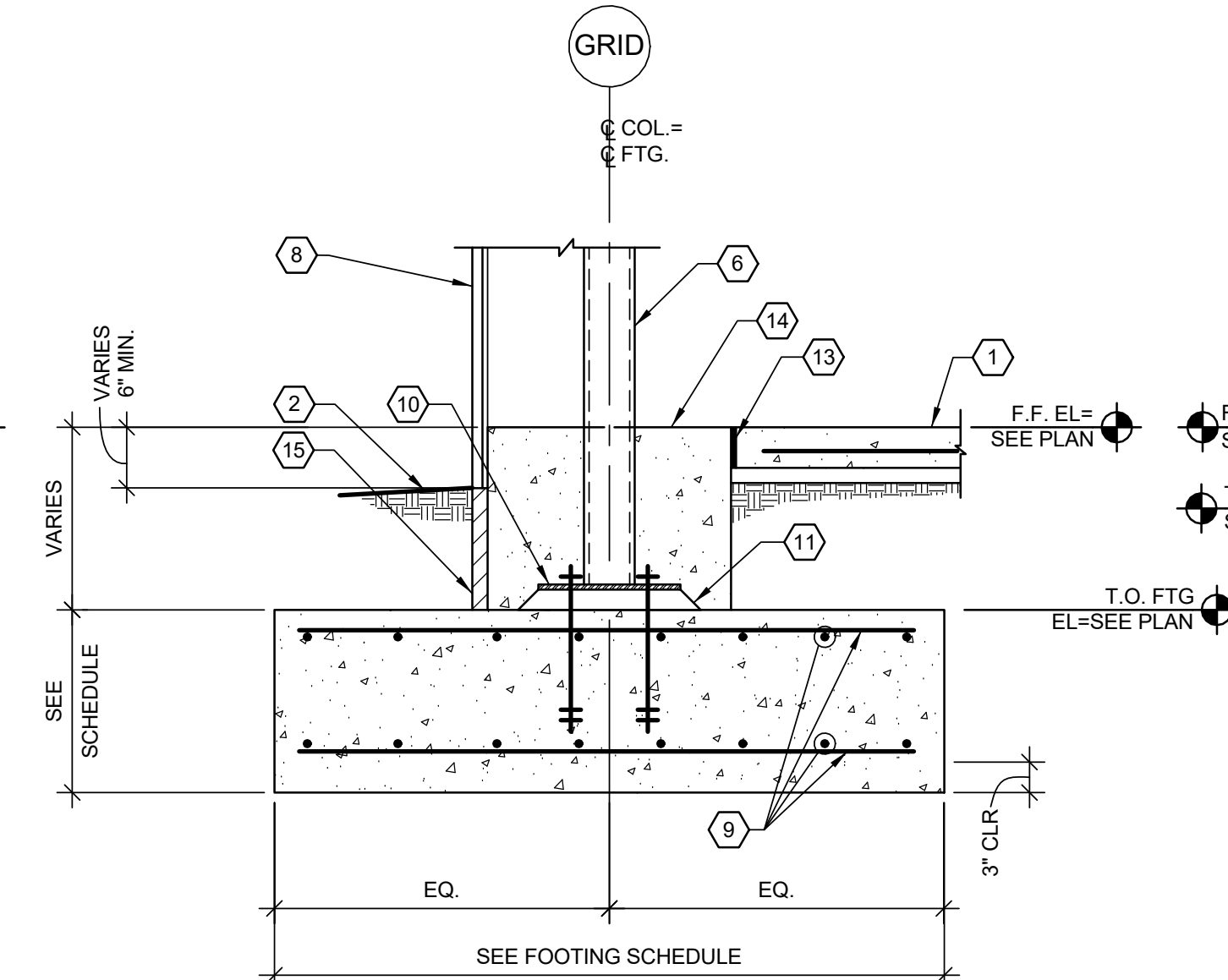
**B4** SECTION  
SCALE: 3/4\"=1'-0"



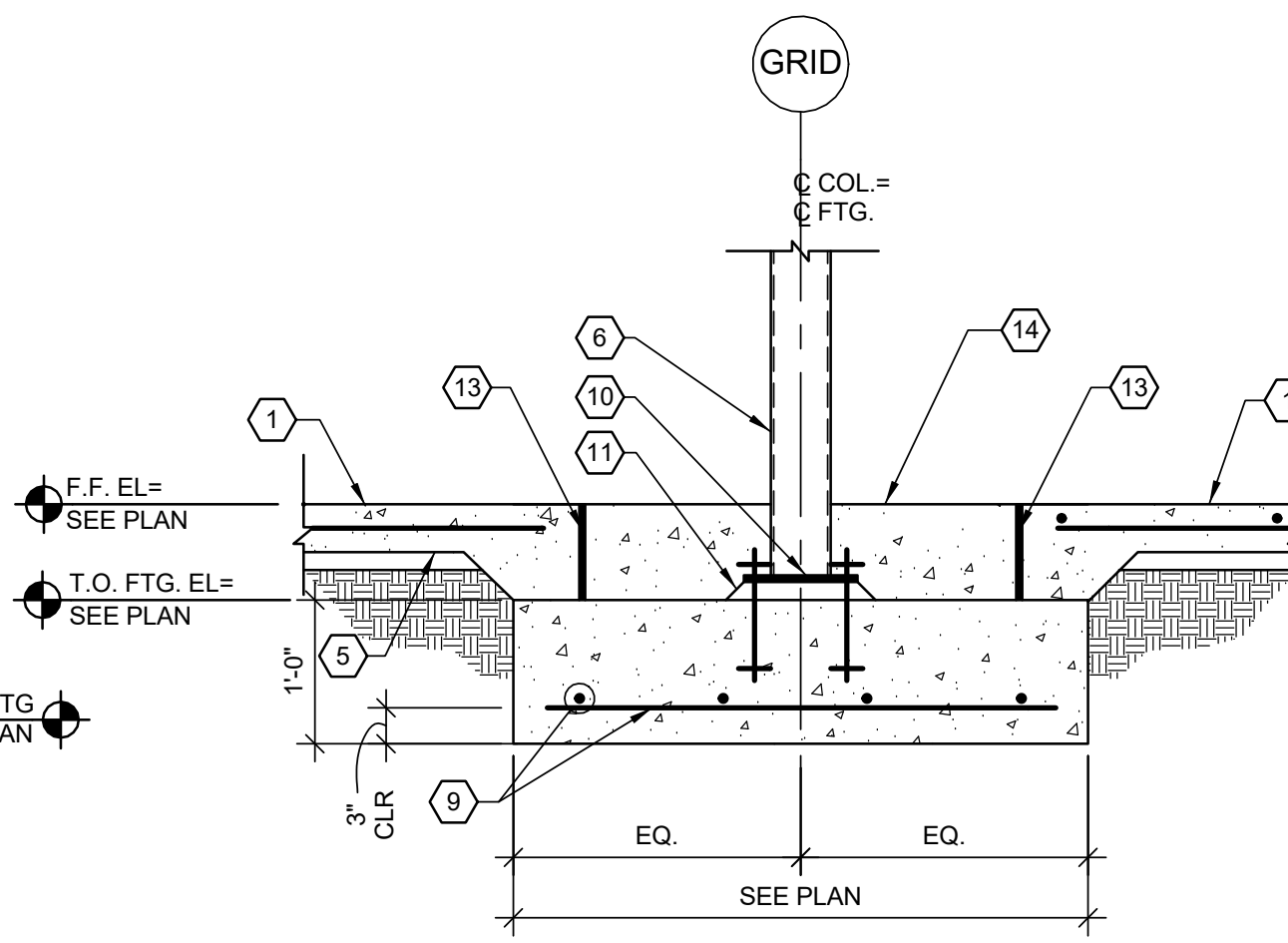
**A1** SECTION  
SCALE: 3/4\"=1'-0"



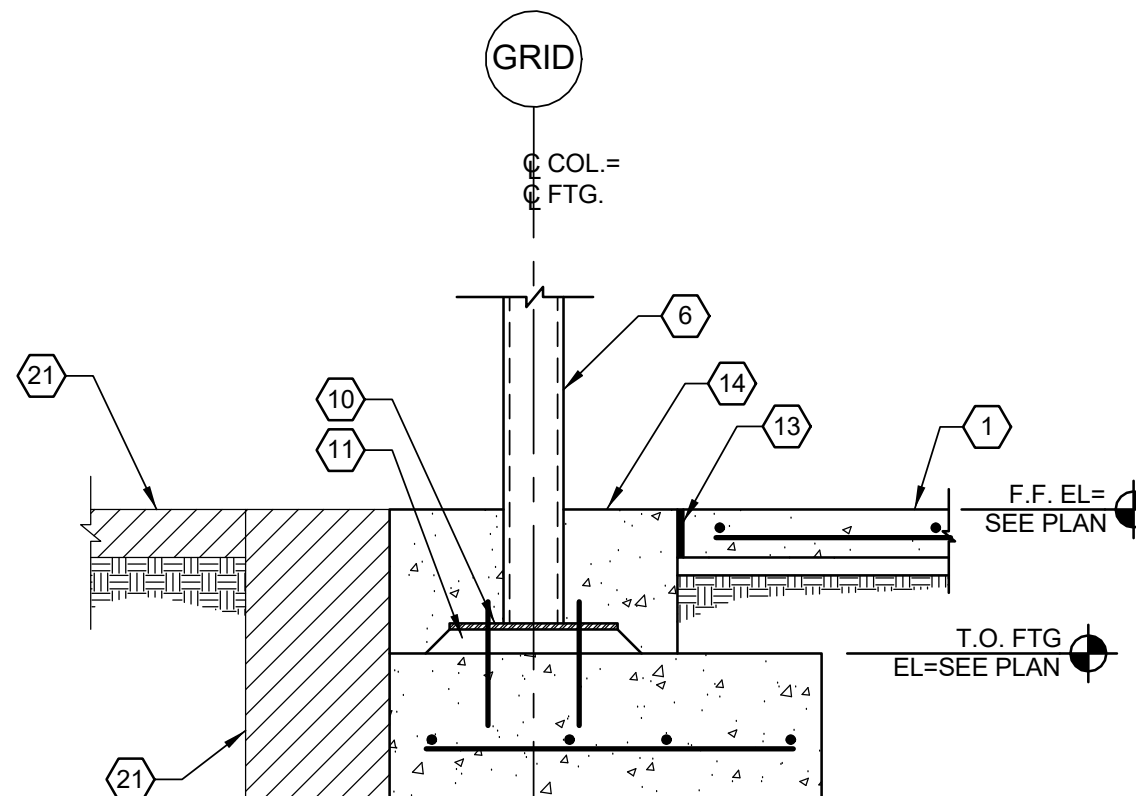
**A2** SECTION  
SCALE: 3/4\"=1'-0"



**A3** SECTION  
SCALE: 3/4\"=1'-0"



**A4** SECTION  
SCALE: 3/4\"=1'-0"



**A5** SECTION  
SCALE: 3/4\"=1'-0"

## KEYED NOTES

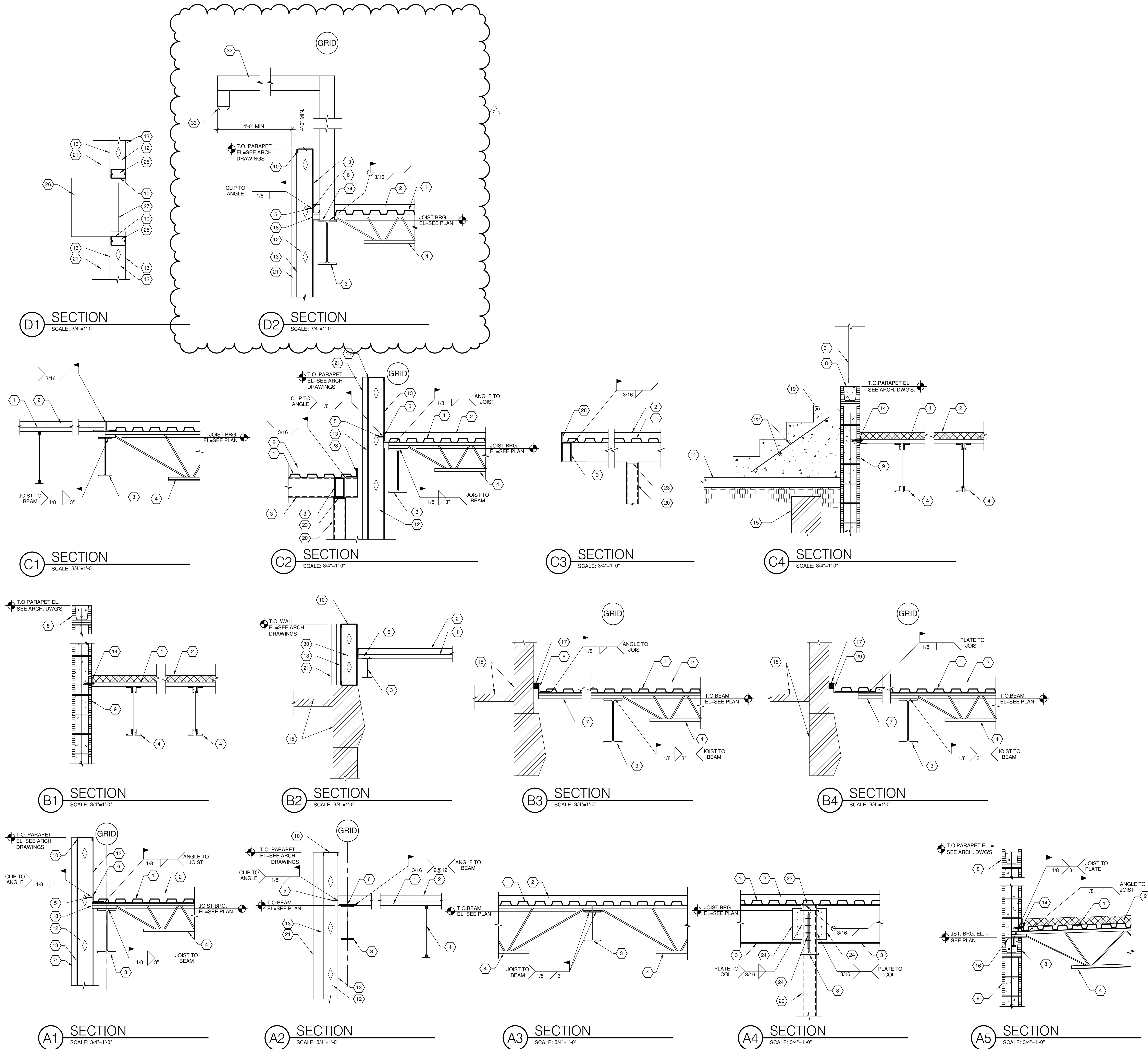
1. CONCRETE SLAB, SEE PLAN FOR REQUIREMENTS
2. FINISHED GRADE, ASPHALT OR EXTERIOR CONC. SLAB, SEE CIVIL DRAWINGS FOR REQUIREMENTS
3. #4 REINFORCING BARS @ 1'-0" O.C.
4. (3) #4 REINFORCING BARS CONTINUOUS
5. CONCRETE TURNDOWN, SEE SECTION 1/8401 FOR REQUIREMENTS
6. STEEL COLUMN, SEE PLAN FOR REQUIREMENTS
7. 1-5/8\"X6\"X20GA STEEL STUDS @ 16\" O.C.
8. STUCCO WALL FINISH, SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS
9. FOUNDATION REINFORCING, SEE SPOT FOOTING SCHEDULE ON SHEET S-2 FOR REQUIREMENTS
10. BASE PLATE AND ANCHOR BOLTS, SEE SPOT FOOTING SCHEDULE ON SHEET S-2 FOR REQUIREMENTS
11. 2\" NON-SHRINK LEVELING GROUT
12. PAINT ALL EXPOSED STEEL SURFACES WITH ASPHALTIC PAINT PRIOR TO POURING CONCRETE SURROUND AND/OR BACKFILLING.
13. 1/2\" EXPANSION JOINT MATERIAL
14. CONCRETE BLOCKOUT AROUND COLUMN
15. RIGID INSULATION, SEE ARCH
16. #4 BARS @ 12\" O.C.
17. WALL SHEATHING, SEE ARCHITECTURAL DRAWINGS FOR REQUIREMENTS
18. 3/4\" CHAMFER
19. OPTIONAL CONSTRUCTION JOINT
20. 8\" CONCRETE WALL
21. EXISTING STRUCTURE TO REMAIN
22. REINFORCING DOWEL CENTERED IN WALL TO MATCH VERTICAL WALL REINFORCING SIZE AND SPACING, SEE LEGEND ON PLAN FOR REQUIREMENTS
23. MASONRY WALL, SEE LEGEND ON PLAN FOR REQUIREMENTS
24. 16GA CONTINUOUS TRACK W/1/2\" DIA. A307 ANCHOR BOLTS @ 4'-0\" O.C. AND 1'-0\" FROM END OF WALL EMBEDDED 9\" INTO CONCRETE
25. FINISH GRADE OR EXTERIOR SLAB
26. #5 DOWELS @ 12\" O.C. ALT. HOOK
27. (3)#4 CONTINUOUS
28. #5 @ 12\" O.C.
29. #5 DOWELS @ 4'-0\" @ 12\" O.C.
30. #3 BAR TYPICAL @ EACH STAIR NOSING
31. #4 BARS @ 12\" O.C.
32. REMOVE STONE AS REQUIRED TO INSTALL NEW SLAB
33. #3 REINFORCING STIRRUPS @ 12\" O.C. (2\" MINIMUM)
34. #4 REINFORCING DOWEL, ONE IN EACH CORNER OF PEDESTAL 2\" CLEAR FROM FACE OF CONCRETE.
35. #5 BARS @ 12\" O.C. EACH WAY
36. FLAG POLE, SEE ARCH
37. STONE FINISH, SEE ARCH
38. (4)3/4\" DIA. F1554 GR. 36 ANCHOR BOLTS, EMBED 18\" INTO FOOTING

MARK	DATE	DESCRIPTION	ISSUE FOR CONSTRUCTION	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
	JULY 20, 2018							
STAMP								
INDIAN HEALTH SERVICE								
DEPARTMENT OF HEALTH AND HUMAN SERVICES								
INDIAN HEALTH SERVICE								
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING								
ALBUQUERQUE AREA OFFICE								
4101 Indian School Road NE Albuquerque, New Mexico 87110								
Mescalero Service Unit								
3118 Abalone Loop Mescalero, NM 86033 Otero County								
RENOVATION & ADDITION								
FOUNDATION SECTIONS								
DRWN BY RMR								
CHKD BY RSP								
SCALE 1/4\"=1'-0"								
DATE								
S-6								
PROJECT NUMBER HHS16120031 HHS16109267								
SHEET of								



C:\Users\rodriq\Documents\5135.01\_IHS\_MESCALERO\_STRUCT\_R2020\_rdriguez@qpec.org.rvt

E  
D  
C  
B  
A



KEYED NOTES

1. METAL DECK, SEE ROOF FRAMING PLAN
2. ROOFING SYSTEM SEE ARCHITECTURAL DRAWINGS
3. STEEL BEAM, SEE FRAMING PLAN
4. STEEL JOISTS, SEE FRAMING PLAN
5. PROVIDE VERTICAL SLIDE CLIP @ EACH STUD
6. L5x3x1/4 LLH CONTINUOUS
7. PROVIDE JOIST EXTENSION, SEE PLAN
8. KNOCK-OUT BOND BEAM W/ (2) #5 CONTINUOUS
9. CMU WALL, SEE FOUNDATION PLAN FOR REQUIREMENTS
10. 16GAGE CONTINUOUS TRACK
11. FINISHED GRADE, ASPHALT OR EXTERIOR CONC. SLAB, SEE CIVIL DRAWINGS FOR REQUIREMENTS
12. METAL STUDS, SEE PLAN FOR REQUIREMENTS
13. WALL SHEATHING SEE ARCHITECTURAL
14. L4x4x3/16 CONTINUOUS ANGLE W/ 5/8" DIA. THREADED RODS @ 32" O.C. EMBEDDED INTO SOLID GROUTED CELLS 4" MIN. USING SIMPSON AT EPOXY OR EQUAL
15. EXISTING STRUCTURE TO REMAIN
16. 3/8"x8"x0'-8" BEARING PLATE WITH (1) 1/2" DIA. x 6" H.A.S. PROVIDE 2" MAX. GROUT AS REQUIRED TO ACHIEVE BEARING ELEVATION
17. 2" EXPANSION JOINT
18. EXTEND JOIST TO EDGE OF BEAM FLANGE
19. #3 BAR TYPICAL @ EACH STAIR NOSING
20. STEEL COLUMN, SEE FOUNDATION PLAN
21. WALL FINISH, SEE ARCHITECTURAL FOR REQUIREMENTS
22. #4 BARS @ 12" O.C.
23. 3/8" CAP PLATE
24. 3/8" SHEAR PLATE WITH THE FOLLOWING REQUIREMENTS:

BEAM SIZE	ROLT SIZE	# REQUIRED
WB W10	3/4" DIA. A325N	2
W12-14	3/4" DIA. A325N	3
W16	3/4" DIA. A325N	4
W18	3/4" DIA. A325N	5
W21	3/4" DIA. A325N	6
W24	3/4" DIA. A325N	7
W27	3/4" DIA. A325N	8
W30	3/4" DIA. A325N	9
W33	3/4" DIA. A325N	10
W36	3/4" DIA. A325N	11
W40	3/4" DIA. A325N	12
25. (2) 1'-5/8"x6"x1/4 GAGE BEAM, PROVIDE VERTICAL SLIDE CLIP FROM BEAM AT EACH COLUMN
26. SUN SHADE, SEE ARCHITECTURAL. SCREW SHADE TO HEADER AND JAMB W/ (2) #10 TEK SCREWS @ 6" O.C.
27. GLAZING, SEE ARCHITECTURAL
28. L4x4x1/4 CONTINUOUS
29. BENT PLATE 1'-2"x3"x1/4" LLH CONTINUOUS
30. 5/8" DIA. STEEL STUDS @ 16" O.C. SEE ARCHITECTURAL
31. HUBBELL SWING BOOM OR APPROVED EQUAL WITH FLOOR MOUNT BASE PLATE (500 LB LIFTING CAPACITY). BASE PLATE WELDED TO ROOF BEAM, SEE D2/S7. THE BOOM SHALL ALLOW FOR 180 DEGREE SWING MINIMUM.
32. MANUAL HOIST PER OWNER
33. BOOM BASE PLATE TO BE WELDED TO BEAM

MARK	DATE	DESCRIPTION
2	09/24/21	AMENDMENT 002
2	10/14/21	

STAMP:

Consultant:

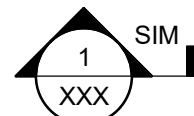
DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 86033 OTERO COUNTY  
RENOVATION & ADDITION  
ROOF FRAMING SECTIONS

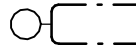
DRWN BY: RMR  
CHKD BY: RSP  
SCALE: 1/4" = 1'-0"  
DATE: 09/24/21  
S-7  
PROJECT NUMBER: HHS161200231  
HHS16120267  
SHEET of



## GENERAL SYMBOLS LEGEND



BUILDING SECTION /  
WALL SECTION



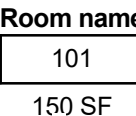
ENLARGED DETAIL DRAWING



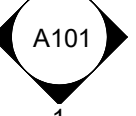
ELEVATION MARK



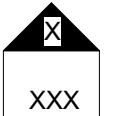
NORTH ARROW



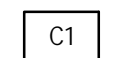
ROOM NAME, NUMBER,  
AND AREA



INTERIOR ELEVATIONS



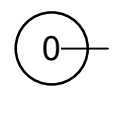
EXTERIOR ELEVATIONS



PARTITION ASSEMBLY TYPE



WINDOW TYPE



STRUCTURAL GRIDLINE



DOOR NUMBER

XXXX ELEVATION INDIC

A WINDOW INDIC

WALL TYPE INDIC

INDICATES SIDE OF GRID BLOCK WALL ALIGNMENT

(101) DOOR INDICATOR

ACCESSORY INDIC

CUBBIES;  
RE: INT ELEVS

CORNER GUARD

WALL FINISH INDIC.

FLOOR FINISH INDIC.

PLASTIC LAMINATE INDIC.

FLOOR MATERIAL  
TRANSITION INDIC.

PLAN

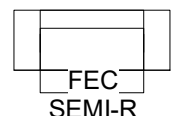
DRAWING TITLE

SECTION REFERENCE

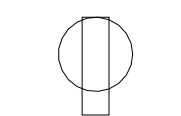
REVISION INDICATOR



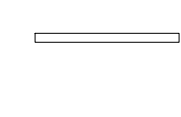
SURFACE MOUNTED  
FIRE  
EXTINGUISHER  
CABINET



SEMI-RECESSED  
FIRE EXTINGUISHER  
CABINET



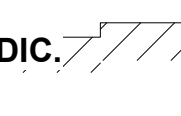
WALL MOUNTED  
FIRE EXTINGUISHER  
BRACKET



GYM EQUIPMENT:  
WALL PADS



MARKER OR  
TACKBOARD



RECESSED FLOOR  
SLAB

DETAIL LOCATION ON SHEET

DRAWING TITLE

1 1/2" = 1'-0"

DRAWING SCALE

SHEET WHERE REFERENCED

LOCATION ON SHEET WHERE DRAWN

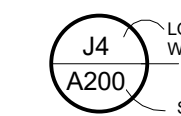
SHEET WHERE DRAWN

REVISION INDICATOR

LEVEL CHANGE INDICATOR



EXTERIOR  
ELEVATION  
REFERENCE



DETAIL  
REFERENCE



LEVEL  
CHANGE  
INDICATOR

REFER TO CONSTRUCTION SPECIFICATION  
INSTITUTE, UNIFORM DRAWING SYSTEM AND  
TO PROJECT SPECIFICATIONS FOR  
REFERENCE STANDARDS & ADDITIONAL  
ABBREVIATIONS



CENTER LINE



ANGLE



CHANNEL



DIAMETER



AT



PLATE



BY



AND



POUND OR NUMBER



FEET



PLUS OR MINUS



INCHES



QUANTITY

AB

AC

ACCT

ACQUST

ADA

ADJ

ADJT

AFF

ALUM

ALT

APC

APPROX

ARCH

ASPH

AUTO

AWI

BBF

BD

BITUM

BLDG

BLK

BLKG

BM

BO

B.O.

BRG

BSMT

CAB

CFA

CHNLS

CJ

CL

CLG

CLR

CMT

CMT-B

CMU

COL

CONC

CONT

CONSTR

COORD

CPT

CSWK

CSI

CTP

CUH

CWT

D

DBL

DEMO

DEPT

DF

DIA

DIM

DISP

DN

DR

DS

DW

DWG

(E)

EA

EIFS

EJ

ELEV

ELEV

ELEC

ENCL

ENGR

EPF

EQ

EQUIP

EQUIV

EX

EXH

EXP

EXP-JT

EXT

EW

EWC

FBLGL

FD

FDN

FE

FEC

FF

FF&E

FG

FHC

FIN

FIN-FLR

FKTURE

FLD

FLR

FLRG

FO

FOS

FR

FR

FRMG

FRP

FT

FTG

FURN

FUT

GAL

GAL

GL

GLU LAM

GMGU

GR

GRADE

GYP BD/GWB

HB

HOLLOW CORE

HC

HDBD

HDR

HDWR

HM

HORIZH

HPC

HRU

HTH

HTR

HVAC

IBC

ID

INDIC

INSUL

INT

JAN

JOINT

JST

JOIST

KD

KNOCK DOWN

ANCHOR BOLT

AIR CONDITIONING

ACCENT

ACOUSTICAL

AMERICANS WITH DISABILITIES ACT

ADJUSTABLE

ADJACENT

ABOVE FINISH FLOOR

ALUMINUM

ALTERNATE

ACRYLIC PLASTER CEILING SYSTEM

APPROXIMATE

ARCHITECT/ARCHITECTURAL

ASPHALT

AUTOMATIC

AMERICAN WOODWORKING INST.

STANDARD (XX) SMALL DRAWERS

OVER FILE DRAWER

BOARD

BITUMINOUS

BUILDING

BLOCK

BLOCKING

BENCH MARK

BEAM

BY OWNER

BOTTOM OF

BEARING

BASEMENT

CABINET

CEMENTITIOUS BACKER BOARD

COMPUTER FLOOR AREA

CHANNELS

CONTROL JOINT

CENTER LINE

CEILING

CLEAR

CERAMIC MOSAIC TILE

CERAMIC MOSAIC TILE BASE

CONCRETE MASONRY UNIT

COLUMN

CONCRETE

CONTINUOUS

CONSTRUCTION

COORDINATE

CARPET

CASEWORK

CONSTRUCTION SPECIFICATIONS

INSTITUTE

CERAMIC TILE PAVERS

CABINET UNIT HEATER

CERAMIC WALL TILE

DRYER (IN PLAN)

DOUBLE

DEMOLISH, DEMOLITION

DEPARTMENT

DRINKING FOUNTAIN

DIA

DIMENSION

DISPENSER

DOWN

DOOR

DOWN SPOUT

DETAIL

DISHWASHER

DRAWING

EXISTING

EACH

EXTERIOR INSULATION & FINISH

EXPANSION JOINT

ELEVATION

ELEVATOR

ELECTRICAL

ENCLOSURE

ENGINEERED

EPOXY POURED FLOOR

EQUAL

EQUIPMENT

EQUIVALENT

EXPOSED

EXHAUST

CONDITIONING CONTRACTOR

NATIONAL ASSOCIATION

EXPANSION JOINT

SPRKL

SPANDREL

SQUARE

SOLID SURFACE

STAINLESS STEEL

STAIN

STATION

SOUND TRANSMISSION CLASS

STANDARD

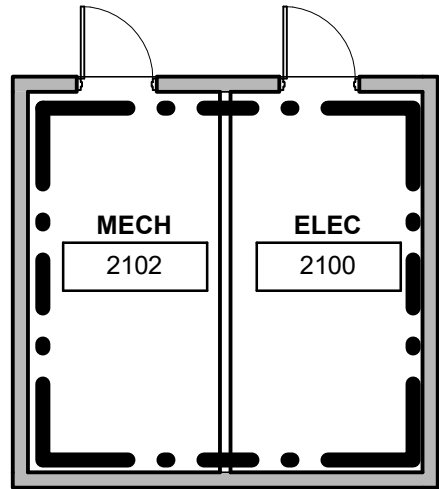
STEATHING

STEEL

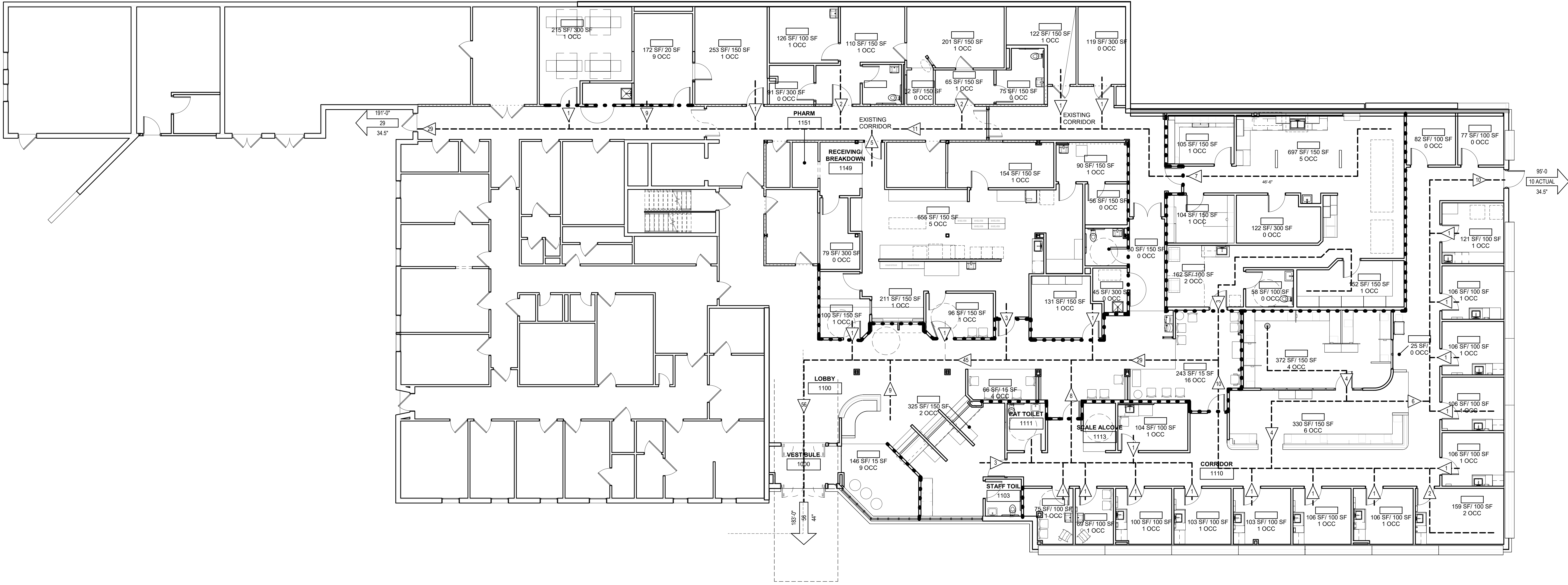
SUPPL



BIM 360://2021.002 Mescalero IHS Document Review/2021-01-29 Mescalero Indian Hospital.rvt



D1 MECH/ELEC ROOM CODE PLAN  
1/8" = 1'-0"



A1 FIRST FLOOR CODE PLAN  
1/8" = 1'-0"

## CODE SUMMARY

**A. APPLICABLE CODES:**  
2021 INTERNATIONAL BUILDING CODE (IBC)  
2018 INTERNATIONAL PLUMBING CODE (IPC)  
2018 INTERNATIONAL MECHANICAL CODE (IMC)  
2018 INTERNATIONAL FIRE CODE (IFC)  
2020 NATIONAL ELECTRICAL CODE (NEC)  
2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)  
ICC/ANSI A117.1 - 2003, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES  
2021 NFPA 101 LIFE SAFETY CODE

### B. OCCUPANCY CLASSIFICATION/SEPARATION:

OCCUPANCY GROUP - **B (Business)**

REQUIRED OCCUPANCY SEPARATIONS (SECTION 508.2.4): **NONE**  
(NOTE: ACCESSORY OCCUPANCY SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA PER SECTION 508.2.1)  
INCIDENTAL ACCESSORY OCCUPANCIES (508.2.5): **NONE**

### C. TYPE OF CONSTRUCTION (SECTION 602)

CONSTRUCTION CLASSIFICATION (SECTION 602.2): **TYPE 2B, FULLY**

#### SPRINKLED

FIRE RESISTANCE RATING FOR BUILDING ELEMENTS (TABLE 601)  
PRIMARY STRUCTURAL FRAME: 0HRS  
BEARING AND NONBEARING WALLS: 0HRS  
FLOOR AND ROOF CONSTRUCTION: 0HRS

FIRE-RESISTANCE RATING OF EXTERIOR WALLS BASED ON  
FIRE SEPARATION DISTANCE (TABLE 602)  
NORTH - SEPARATION DISTANCE >30 = 0HRS  
SOUTH - SEPARATION DISTANCE >30 = 0HRS  
EAST - SEPARATION DISTANCE >30 = 0HRS  
WEST - SEPARATION DISTANCE >30 = 0HRS

### D. ALLOWABLE HEIGHTS AND AREA (SECTION 503 & 504)

BASE ALLOWABLE HEIGHT (TABLE 504.3): 75 FT.  
TOTAL ALLOWABLE HEIGHT: 75 FT.  
ALLOWABLE STORIES (TABLE 504.4) SPRINKLER SYSTEM: 4  
TOTAL ALLOWABLE STORIES: 4  
ACTUAL MAXIMUM HEIGHT: 26 FT.  
BUILDING AREA (SECTION 506)  
BASE ALLOWABLE FLOOR AREA FACTOR IN SF (TABLE 506.2): 69,000 SF  
ACTUAL BUILDING AREA: 11,982 SF

#### ALLOWABLE AREA (SECTION 506.2)

BASED ON FRONTAGE INCREASE

$A_n = [A_0 + (NS \times L)] \times S_1$   
 $A_n = [69,000 + (23,000 \times 4.42)] \times 4$   
 $A_n = 69,000 + 9,660 \times 4$   
 $A_n = 78,660 \times 4$   
 $A_n = 314,000 SF$

ALLOWABLE AREA = 314,000 SF

ACTUAL BUILDING AREA = 11,982 SF < 314,000 SF

### F. MEANS OF EGRESS (SECTION 1004, 1006, 1016, 1017, & 1020)

OCCUPANT LOAD (TABLE 1004.5)

CALCULATED FOR MAXIMUM OCCUPANT LOAD

TOTAL OCCUPANT LOAD: **95**

#### EGRESS REQUIREMENTS:

1. MINIMUM NUMBER OF EXITS FOR A TOTAL OCCUPANT LOAD OF LESS THAN 500 IS 2 EXITS PER TABLE 1006.3.1. 3 TOTAL EXITS PROVIDED.  
2. TOTAL ALLOWABLE EXIT ACCESS LENGTH W/ SPRINKLER SYSTEM: PER TABLE 1017.2 IS **300 FT**.  
3. MAXIMUM OCCUPANT LOAD FOR SPACE WITH ONE EXIT IS 49 OCCUPANTS PER TABLE 1016.3.4(2).

### G. PLUMBING FIXTURE REQUIREMENTS (SECTION 2902, TABLE 2902.1)

#### OCCUPANT LOADS:

BUSINESS:

TOTAL:

PLUMBING FIXTURES REQUIRED:

PLUMBING FIXTURES PROVIDED:

	WC	LAV	DF	SS
TOTAL:	4	3	1	1
PLUMBING FIXTURES REQUIRED:	4	3	1	1
PLUMBING FIXTURES PROVIDED:	6	6	1	1

### E. HANDICAP PARKING (SECTION 1106, TABLE 1106.2)

NUMBER OF PARKING SPACES = **42**  
HANDICAP SPACES REQUIRED = **2** (26 - 50 SPACES)  
OF 6 HANDICAP SPACES, 1 IS DESIGNED TO BE VAN ACCESSIBLE, PER SECTION 1106.6

## GENERAL SHEET NOTES

- EXIT SIGNS WITH BATTERY BACK-UP ARE INDICATED ON ELECTRICAL SHEETS.
- EMERGENCY LIGHTING IS INDICATED ON ELECTRICAL SHEETS.
- SHOP DRAWINGS FOR FIRE PROTECTION SYSTEM SHALL BE SUBMITTED TO FIRE MARSHAL'S OFFICE FOR REVIEW PRIOR TO INSTALLATION.
- SHOP DRAWINGS FOR FIRE ALARM SYSTEM SHALL BE SUBMITTED TO FIRE MARSHAL'S OFFICE FOR REVIEW PRIOR TO INSTALLATION.
- SEE SHEET 01-102 FOR TYPICAL ACCESSIBLE MOUNTING HEIGHTS.
- LOCATIONS OF EXIT SIGNAGE AND EMERGENCY LIGHTING IS SUBJECT TO REVIEW BY FIRE MARSHAL AND CODE OFFICIAL PRIOR TO INSTALLATION.
- SHOP DRAWINGS FOR FIRE PROTECTION AND ALARM SYSTEMS SHALL INCLUDE: MANUAL ACTIVATION DEVICE LOCATIONS FOR HOODS INDICATED AT A MINIMUM OF 10" AND A MAXIMUM OF 20" FROM EACH SYSTEM, DUCT SMOKE DETECTION, SPRINKLER PROTECTION REQUIRED IN FREEZER AND COOLER.

## SHEET LEGEND

- ROOM NAME  
ROOM NUMBER  
AREA OF ROOM/SF PER OCCUPANT (IBC)  
OCCUPANT LOAD OF ROOM
- IBC OCCUPANT LOAD/DIRECTION OF EGRESS
- TRAVEL DISTANCE  
ACTUAL OCCUPANT LOAD FOR DOOR  
WIDTH OF DOOR (IN INCHES)
- FEB FIRE EXTINGUISHER BRACKET  
FEC FIRE EXTINGUISHER CABINET
- DIRECTION OF EXIT  
NUMBER OF OCCUPANTS EXITING
- SMOKE PARTITION  
1 HOUR SEPARATION  
2 HOUR SEPARATION

DESCRIPTION	DATE	MARK	STAMP	INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC 3737 Broadway Dr., NE Ste. 130 Albuquerque, NM 87110 Tel: 505.222.2555 Fax: 505.222.2566	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY RENOVATION & ADDITION CODE COMPLIANCE/REVIEW	DRWN BY CHKD BY SCALE 1/4" = 1'-0" DATE 01/18/18 G-3 PROJECT NUMBER 117043 SHEET of
ISSUE FOR CONSTRUCTION	JULY 20, 2018	1	APPROVED	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
INTERNAL REVIEW	APRIL 09, 2021	2	APPROVED	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
AMENDMENT 2	10/14/2021		APPROVED	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
ARCHITECTURAL				INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
MECHANICAL				INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
ELECTRICAL				INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	
PLUMBING				INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE	



**B1** FIRST FLOOR DEMOLITION PLAN  
1/4" = 1'-0"



**A5** EXISTING IT OFFICE DEMO PLAN  
1/4" = 1'-0"

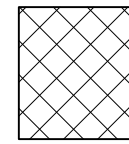
**A7** SECOND FLOOR DEMO  
1/4" = 1'-0"

**DEMOLITION NOTES**

- EXISTING FACILITY IS KNOWN TO CONTAIN HAZARDOUS MATERIAL. REFER TO ASBESTOS ABATEMENT REPORT FOR LOCATIONS AND RECOMMENDATIONS FOR REMOVAL.
- THIS BUILDING HAS HISTORICAL SIGNIFICANCE. THERE ARE ARCHITECTURAL FEATURES THAT ARE TO BE PRESERVED AND RELOCATED AS NOTED IN THE DOCUMENTS. ADDITIONALLY, OWNER SHALL HAVE FIRST RIGHT TO ALL SALVAGEABLE ITEMS ON SITE. SALVAGE ITEMS INCLUDE ALL SINKS, LIGHT FIXTURES, AND OTHER ACCESSORIES. OTHER ITEMS TO BE SALVAGED SHALL BE IDENTIFIED FOR THE CONTRACTOR DURING PRECONSTRUCTION WALK THROUGH.
- THE FACILITY WILL BE OPEN DURING CONSTRUCTION. ALL WORK IS TO BE CONDUCTED TO SAFEGUARD VISITORS AND STAFF ON THE PROPERTY. SECURE INDIVIDUAL WORK AREAS FOR SAFETY AND ADHERE TO SAFETY GUIDELINES FOR THE WORKPLACE.
- DURING CONSTRUCTION WHILE ADJACENT AREAS ARE IN USE, CONTRACTOR SHALL MAINTAIN SAFE AND CODE COMPLIANT ACCESS AND EGRESS TO AND FROM ALL OCCUPIED SPACES FOR THE ENTIRE DURATION OF THE PROJECT.
- DEMOLITION ACTIVITIES WHICH ARE NOISY AND WHICH DISRUPT ACTIVITIES IN ADJACENT AREA SHALL BE CONDUCTED ONLY AFTER COORDINATION WITH OWNER.
- CONTRACTOR SHALL PROTECT ALL EXISTING CONDITIONS TO REMAIN. ANY DAMAGE TO THESE AREAS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- INSPECT ALL BEAMS, FLOORS, WALLS, AND ROOF DECK FOR STRUCTURAL DAMAGE. NOTIFY OWNER AND ARCHITECT IMMEDIATELY OF ANY DAMAGE.
- ASBESTOS ABATEMENT IS REQUIRED.

**REFERENCE KEYNOTES**

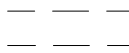
- 02-4100.A REMOVE WALL  
02-4100.A1 REMOVE LEAD SHIELDED WALL AND WINDOW  
02-4100.A2 REMOVE WALL AND WINDOWS  
02-4100.B REMOVE DOOR AND FRAME  
02-4100.C REMOVE CEILING  
02-4100.D REMOVE PLUMBING FIXTURE  
02-4100.G REMOVE WALL WITH MOSAIC TILE PATTERN AND PROTECT FOR REUSE  
02-4100.I REMOVE DUMBWAITER  
02-4100.J REMOVE COLUMN  
02-4100.K REMOVE CONCRETE SHADE STRUCTURE  
02-4100.M REMOVE DRAIN PIPE  
02-4100.N REMOVE STONE WALL, RESERVE STONE FOR REUSE  
02-4100.O EXISTING COLUMNS REMAIN  
02-4100.P EXISTING FOUNDATION REMAINS, REMOVE ALL STONE BELOW GRADE



REMOVE FLOOR FINISH AND CEILINGS



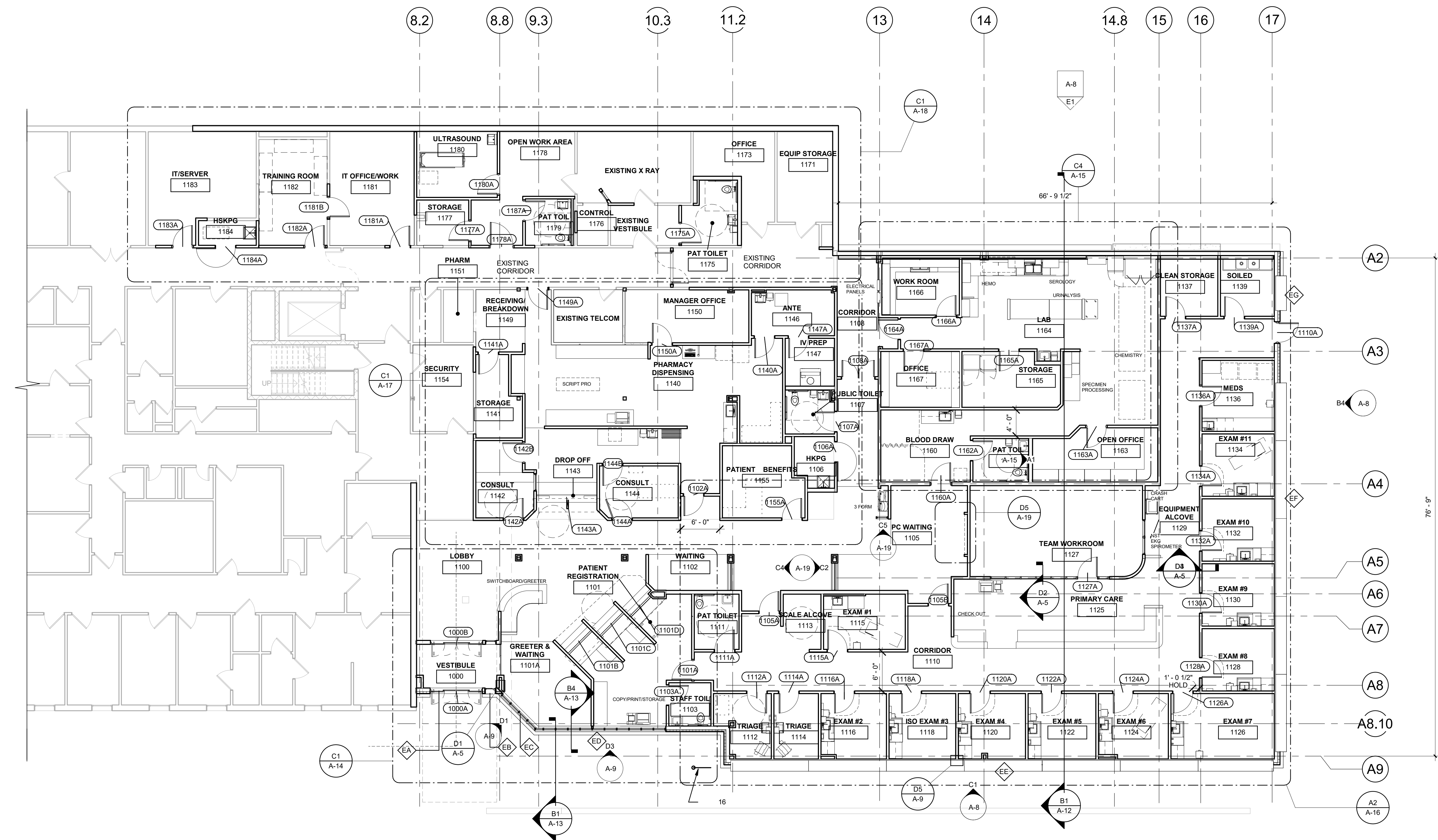
MOSAIC TILE WALL, REMOVE ENTIRE WALL AND PRESERVE FOR LOCATION IN NEW WAITING ROOM SEE SHEET A-1 FOR LOCATION



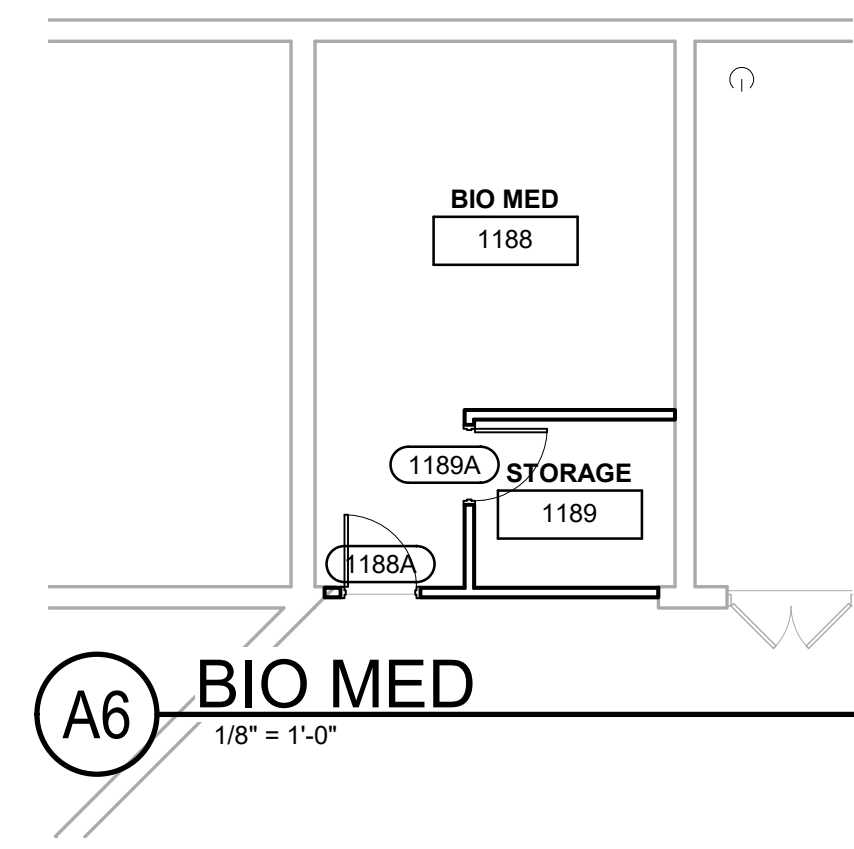
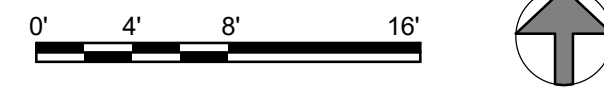
DASHED LINE INDICATES ITEM TO BE REMOVED

SHEET	of	PROJECT NUMBER 117043	DA-1	DATE 01/11/18	SCALE 1/4" = 1'-0"	CHKD BY	DRWN BY	MISCALERO SERVICE UNIT 318 ABALONE LOOP MISCALERO, NM 86303 OTERO COUNTY	ARCHITECTURAL - DEMOLITION PLAN	INDIAN HEALTH SERVICE PHS - 1955	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL AND ENGINEERING ALBUQUERQUE AREA OFFICE ALBUQUERQUE, NEW MEXICO 87110 4101 Indian School Road NE Albuquerque, New Mexico	INDIGENOUS DESIGN STUDIO - ARCHITECTURE LLC 3133 Princeton Dr., NE Ste. 130 Albuquerque, NM 87107 Tel: 505.223.2586 Fax: 505.223.2586	STATE OF NEW MEXICO TAMARA R. BERRY REGISTERED ARCHITECT 7/20/2001	STAMP	MARK	DESCRIPTION				
																1	JULY 26, 2018	ISSUE FOR CONSTRUCTION	2	APRIL 09, 2021





**B1 FLOOR PLAN**  
1/8" = 1'-0"





### GENERAL NOTES

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APURTANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION
7. FURNITURE IS SHOWN AS GUIDE.
8. ALL WALLS ARE TO BE TYPE A PARTITIONS UNLESS OTHERWISE NOTED.
9. REFERENCE REFLECTED CEILING PLAN FOR CEILING HEIGHTS.

## SHEET KEYNOTES

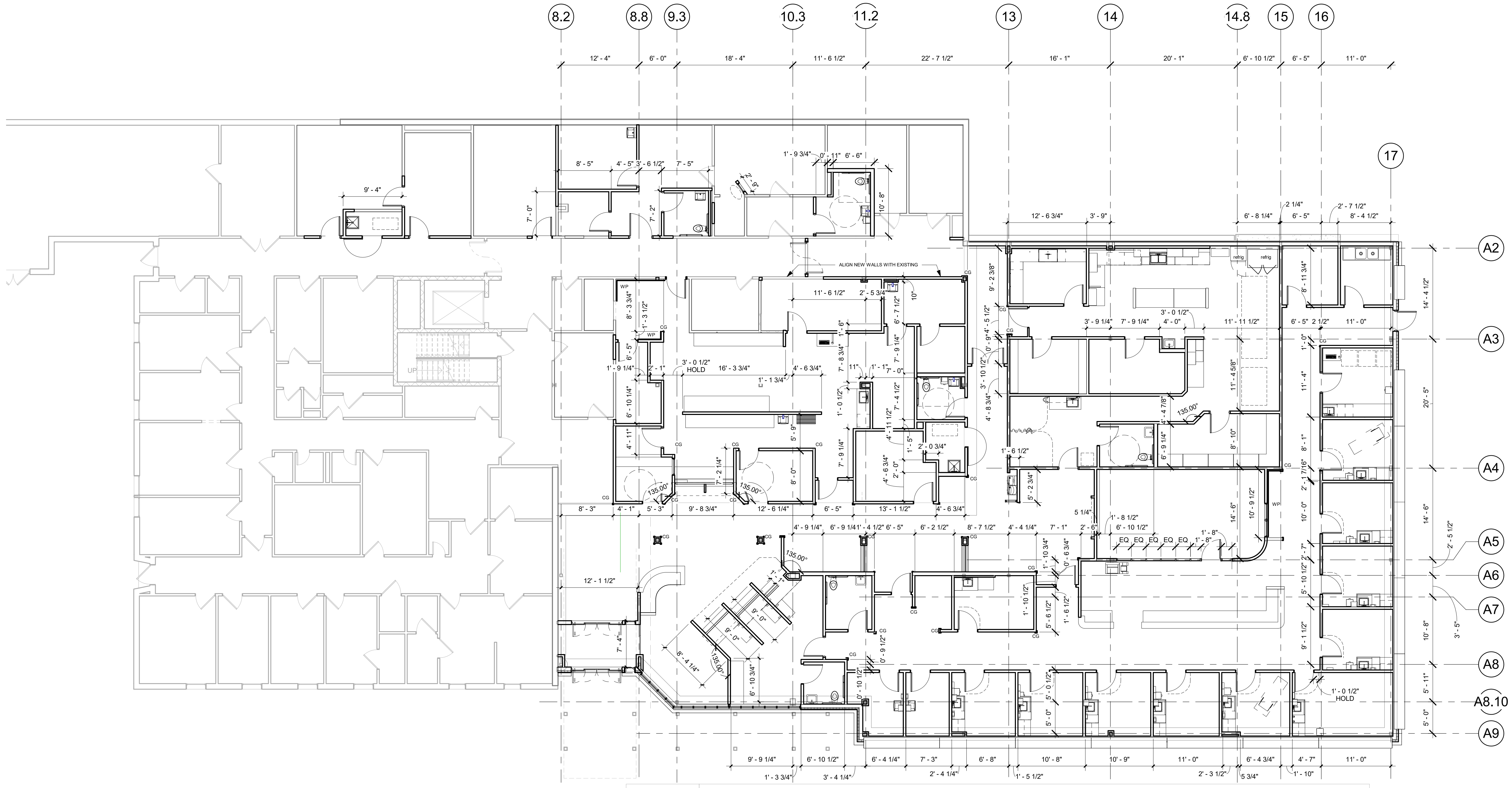
- 16      DOWNSPOUT DIRECTED TO DRAIN INTO RIP  
RAP SWALE

## REFERENCE KEYNOTES

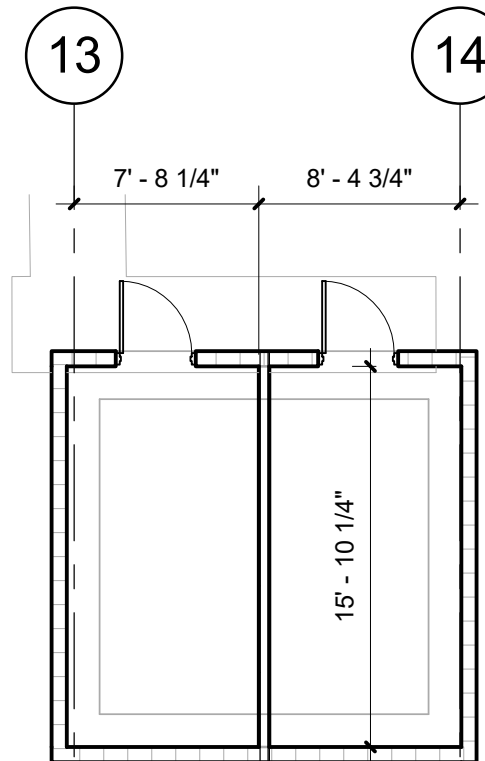
SHEET		of												
PROJECT NUMBER	117943													
DATE	12/13/17													
SCALE	1/4" = 1'-0"													
CHKD BY														
DRWN BY														
<p>MESCALERO SERVICE UNIT          318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY</p> <h1 style="text-align: center;">ARCHITECTURAL - FLOOR PLAN</h1> <h2 style="text-align: center;">RENOVATION &amp; ADDITION</h2>														
<p><b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b>  <b>INDIAN HEALTH SERVICE</b>  <b>OFFICE OF ELIABUQUE AREA ENGINEERING</b>  <b>ELIABUQUE AREA OFFICE</b>          4181 Indian School Road NE Albuquerque, New Mexico 87110</p> <div style="text-align: center;">  </div>														
<p><b>C</b></p> <div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: right;"> <p><b>INDIGENOUS DESIGN STUDIO - ARCHITECTURE LLC</b>              379 Pimlico Tr. NE Ste. 130              Albuquerque, NM 87107              Tel: 505-232-2556              Fax: 505-232-2556</p> </div> </div>														
<p><b>m</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>MARK</th><th>DATE</th><th>DESCRIPTION</th></tr> </thead> <tbody> <tr> <td>1</td><td>JULY 23, 2018</td><td>ISSUE FOR CONSTRUCTION</td></tr> <tr> <td></td><td>APRIL 03, 2021</td><td>INTERNAL REVIEW</td></tr> <tr> <td>2</td><td>10/14/2021</td><td>AMENDMENT 2</td></tr> </tbody> </table> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div> <p>STAMP</p> <p>APPROVED</p> </div> <div> <p>ARCHITECTURAL</p> <p>ELECTRICAL</p> <p>PLUMBING</p> </div> </div>			MARK	DATE	DESCRIPTION	1	JULY 23, 2018	ISSUE FOR CONSTRUCTION		APRIL 03, 2021	INTERNAL REVIEW	2	10/14/2021	AMENDMENT 2
MARK	DATE	DESCRIPTION												
1	JULY 23, 2018	ISSUE FOR CONSTRUCTION												
	APRIL 03, 2021	INTERNAL REVIEW												
2	10/14/2021	AMENDMENT 2												



BIM 360//2017.009 Mescalero Indian Hospital Renovation/IHS Mescalero Model option 1.2, approved v3\_rvt



**B2 FIRST FLOOR DIMENSION PLAN**  
1/8" = 1'-0"



**A6 MECH/ELEC ROOM DIMENSION PLAN**  
1/8" = 1'-0"

**GENERAL NOTES**

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

WP - WALL PROTECTION  
CG - CORNER GUARD

SHEET	of	PROJECT NUMBER 117043	A-2	DATE 05/23/18	SCALE 1/4" = 1'-0"	CHKD BY .	DRWN BY	DIMENSIONED PLAN & WALL PROTECTION	INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC 3237 Princeton Dr., NE, Ste. 120 Albuquerque, NM 87107 Tel: 505.226.2565 Fax: 505.226.2566		CONSULTANT	 DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	INDIAN HEALTH SERVICE 318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY RENOVATION & ADDITION	Mescalero Service Unit	JULY 20, 2018	ISSUE FOR CONSTRUCTION	APPROVED	ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	STAMP STATE OF NEW MEXICO INDIAN HEALTH SERVICE REGISTERED ARCHITECT 7/20/2018



1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

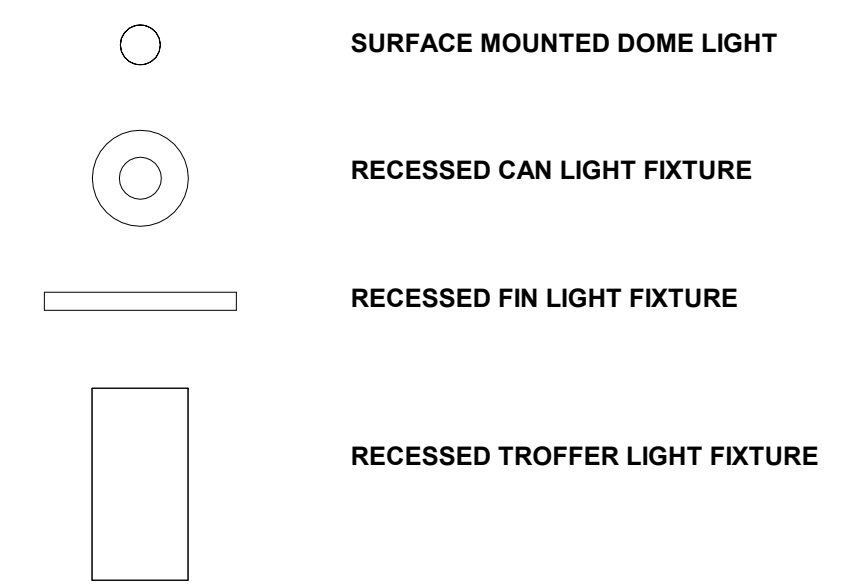
03-3000.D1	CONCRETE RETAINING WALL
07-5400.A	TPO MEMBRANE ROOFING 80 MIL.
07-5400.C	POLYSIO INSULATION BOARD, 5"
07-6200.C	METAL COPING, PREFABRICATED
07-6200.F2	DRAIN EXISTING ROOF TO ADDITION ROOF
07-6200.H	DOWNSPOUT
22-0000.D1	ROOF DRAIN
23-0000.C	MECHANICAL ROOF TOP UNIT

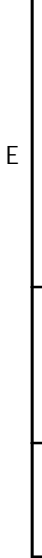
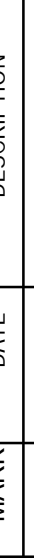
1/4" = 1'-0"

B2)  $1/4'' = 1'-0''$

SHEET	of	PROJECT NUMBER 117043	A-3	DATE 01/11/18	SCALE 1/4" = 1'-0"	CHKD BY	DRWN BY	<p>MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 85503 OTERO COUNTY</p> <p><b>RENOVATION &amp; ADDITION</b></p> <p><b>SECOND FLOOR PLAN / ARCHITECTURAL ROOF</b></p>
				<p>INDIAN HEALTH SERVICE 4151 Indian School Road NE Albuquerque, New Mexico 87110</p> <p><b>OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING</b> <b>ALBUQUERQUE AREA OFFICE</b></p> <p>INDIAN HEALTH SERVICE 3717 Princeton Dr., NE Ste. 130 Albuquerque, NM 87110 Tel: 505.276.2505 Fax: 505.276.2506</p>				
<p>CONSULTANT</p> <p>INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC</p> <p>3717 Princeton Dr., NE Ste. 130 Albuquerque, NM 87110 Tel: 505.276.2505 Fax: 505.276.2506</p>			<p>STAMP</p> <p>STATE OF NEW MEXICO REGISTERED ARCHITECT TAMARA H. H. WIGGOLD NO. 4188 7/26/2010</p>			<p>MARK</p> <p>DATE</p> <p>DESCRIPTION</p> <p>ISSUE FOR CONSTRUCTION</p> <p>APPROVED</p> <p>ARCHITECTURAL</p> <p>MECHANICAL</p> <p>ELECTRICAL</p> <p>PLUMBING</p>		





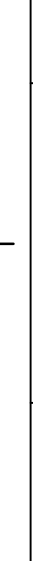
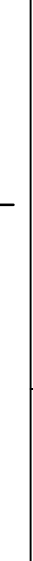
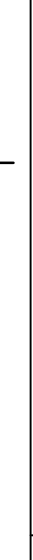
SHEET	of	PROJECT NUMBER 117043	A-4	DATE 01/11/18	SCALE 1/4" = 1'-0"	CHKD BY	DRWN BY	MISCALERO SERVICE UNIT 318 ABALONE LOOP MISCALERO, NM 86503 OTERO COUNTY RENOVATION & ADDITION ARCHITECTURAL - REFLECTED CEILING PLAN	 <p>DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110</p>	 <p>INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC 3373 Princeton Dr. NE Ste. 130 Albuquerque, NM 87107 Tel: 505.226.2566 Fax: 505.226.2566</p>	<p>Consultant</p>	<p>Stamp</p> <p>DATE OF NEW MEXICO TAMARA R. BERRY REGISTERED ARCHITECT 7/20/2016</p>	MARK	DATE	DESCRIPTION



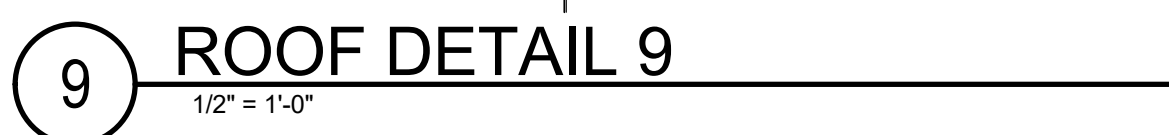


1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

08-5113.A	ALUMINUM WINDOW
09-2216.A	METAL STUD
09-2216.F3	METAL STUD, 2-1/2", 20 GAUGE 4'-0" OC
09-2216.F4	METAL STUD, 2-1/2", 20 GAUGE, BRACE AS REQUIRED
09-2216.G4	METAL HAT FURRING CHANNEL, 7/8", 16" OC
09-2216.G5	COLD ROLLED METAL CHANNEL, 1 1/2", 4'-0" OC
09-2900.A	GYPSUM BOARD, 5/8", TYPE X
09-2900.A2	GYPSUM BOARD, 3/8"
09-2900.C	GYPSUM BOARD, WATER RESISTANT
09-2900.J2	CASING BEAD
09-5113.B	ACOUSTICAL PANEL, 2x4
09-5113.C1	METAL EDGE TRIM, CONTINUOUS
09-5113.C2	METAL HANGER WIRES

SHEET	of	PROJECT NUMBER 117043	<div style="text-align: center; font-size: 2em; font-weight: bold;">A-5</div>	DATE 01/18/18	SCALE 1/4" = 1'-0"	CHKD BY	DRWN BY	<div style="text-align: center;"> <b>MESCALERO SERVICE UNIT</b>  <b>318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY</b>  <b>RENOVATION &amp; ADDITION</b>  <b>PARTITION TYPES &amp; RCP DETAILS</b> </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;"> <b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b>  <b>INDIAN HEALTH SERVICE</b>  <b>OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING</b>  <b>INDIAN ENVIRONMENTAL HEALTH SERVICE</b>  <b>4191 Indian School Road NE Albuquerque, New Mexico 87119</b> </div>	<div style="text-align: center;">  </div>	<div style="text-align: center;"> <b>INDIGENOUS DESIGN STUDIO + ARCHITECTURE LLC</b>  <b>2373 Princeton Dr. NE, Ste. 130</b>  <b>Albuquerque, NM 87107</b>  <b>TEL: 505.226.2666</b>  <b>FAX: 505.226.2666</b> </div>	<div style="text-align: center;">  </div>	<div style="display: flex; justify-content: space-between;"> <div> <b>STAMP</b>  <div style="border: 1px solid black; padding: 2px;"> <div style="display: flex; justify-content: space-between;"> <div> MARK DATE APPROVED </div> <div> DESCRIPTION ISSUE FOR CONSTRUCTION ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING </div> </div> </div> </div> </div>
														<div style="display: flex; justify-content: space-between;"> <div> MARK DATE APPROVED </div> <div> DESCRIPTION ISSUE FOR CONSTRUCTION ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING </div> </div>





16            DOWNSPOUT DIRECTED TO DRAIN INTO RIP RAP SWALE

[illegible]





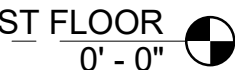
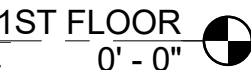
- Precast Concrete Wall System  
MT-03 Applied Stone Veneer to Exposed Face




$$1/8^{\circ} = 1'-0''$$

$$1/8^{\circ} = 1'-0''$$

$$1/8^{\circ} = 1'-0''$$

$$1/8'' = 1'-0''$$

$$1'' = 1' - 0''$$


(A3)


$$3^{\circ} = 1^{\circ} - 0^{\circ}$$

$$1\frac{1}{2}'' = 1'-0''$$


3/4" = 1'-0"


$$1/8" = 1'-0"$$

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

03-4500. A	PRECAST WALL PANEL
03-4500. B	APPLIED STONE VENEER
03-4500. C	PRECAST WALL CAP
03-4500. C1	PRECAST WALL TERMINATION
03-4500. D	MORTAR
03-4500. E	DRIP EDGE
05-1200. C	STEEL BEAM
05-3100. B	STEEL ROOF DECKING
05-4000. A	STRUCTURAL STUD FRAMING
05-4000. B	STRUCTURAL STUDS, 6"
07-2100. A	GLASS-FIBER BLANKET INSULATION
07-2400. E	RIGID FOAM INSULATION, SLOPE TO DRAIN
07-4213. A	METAL WALL PANELS
07-4213. B	7/8" HAT CHANNEL ATTACHED TO STRUCTURAL STUD SUPPORTS
07-5113.J A	CANT STRIP
07-5400. A	TPO MEMBRANE ROOFING 80 MIL.
07-6200. C	METAL COPING, PREFABRICATED
07-6200. E2	FASCIA - PAINTED ALUMINUM
07-9200. B	SEALANT AND BACKER ROD
08-4113. A	ALUMINUM STOREFRONT SYSTEM
08-4113. G1	ALUMINUM ACOUSTIC MULLION TRIM CAP WITH SNAP COVER
08-4113. G2	ACOUSTICAL FOAM
08-4113. G3	FOAM GASKET
08-8000. A2	INSULATING GLASS, LAMINATED
09-2216. G6	Z-SHAPED FURRING CHANNEL, 24" OC
09-2900. A	GYPSUM BOARD
09-2900. A	GYPSUM BOARD, 5/8", TYPE X
09-5460. A	LINEAR METAL PLANK CEILING
09-5460. B	UNIVERSAL PLANK CARRIER
09-5460. C	LINEAR METAL PLANK END CAP
09-5460. D	LINEAR METAL PLANK ATTACHMENTS PER MANUFACTURER REQUIREMENTS
09-5460. E	FIELD CUT LINEAR METAL PLANK
09-5460.F	INDEPENDENTLY SUPPORTED LIGHT FIXTURE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS

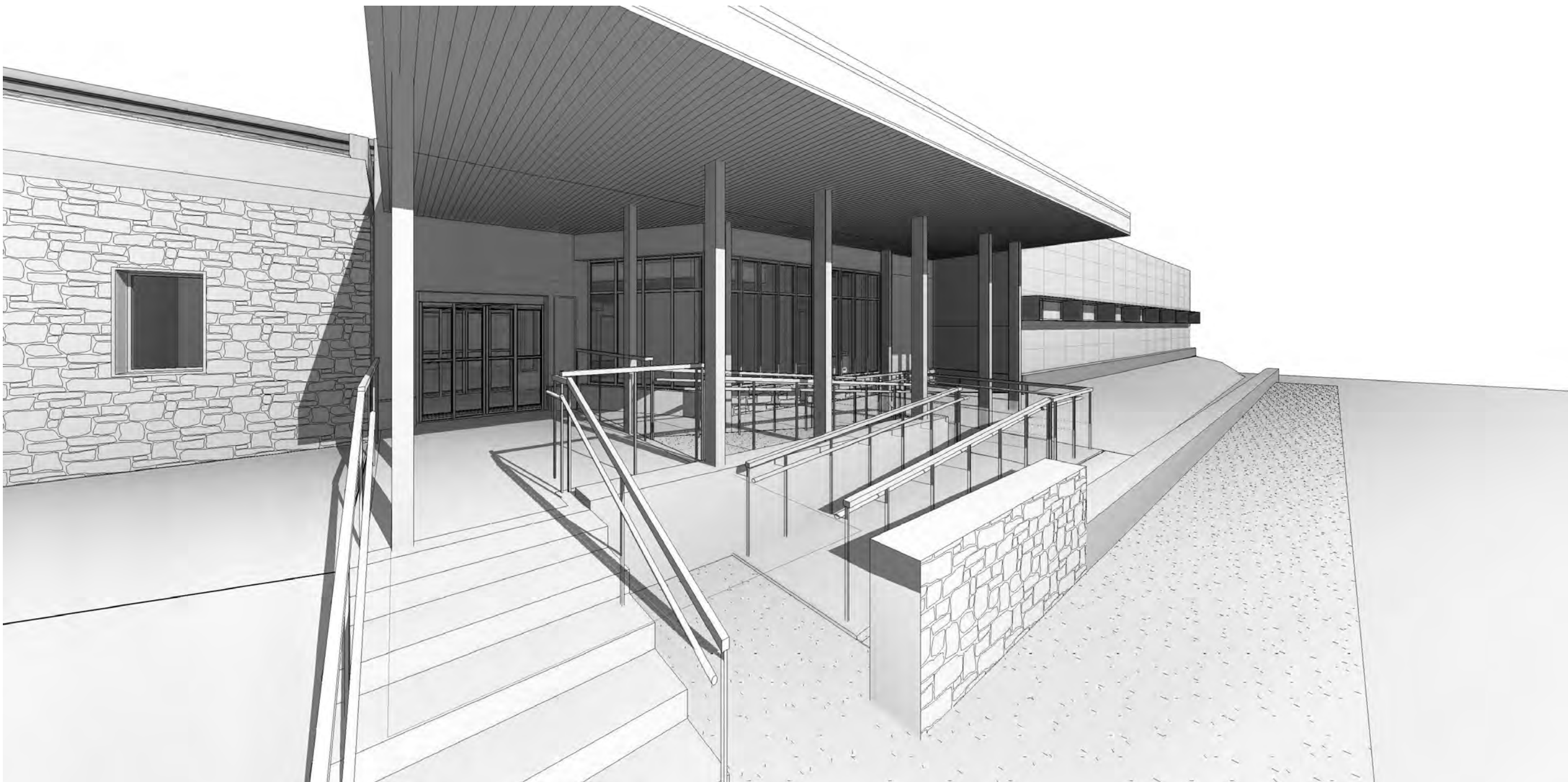
13 FINISH TO MATCH ALUMINUM STOREFRONT SYSTEM;  
INSTALL PER MANUFACTURER SPECIFICATIONS



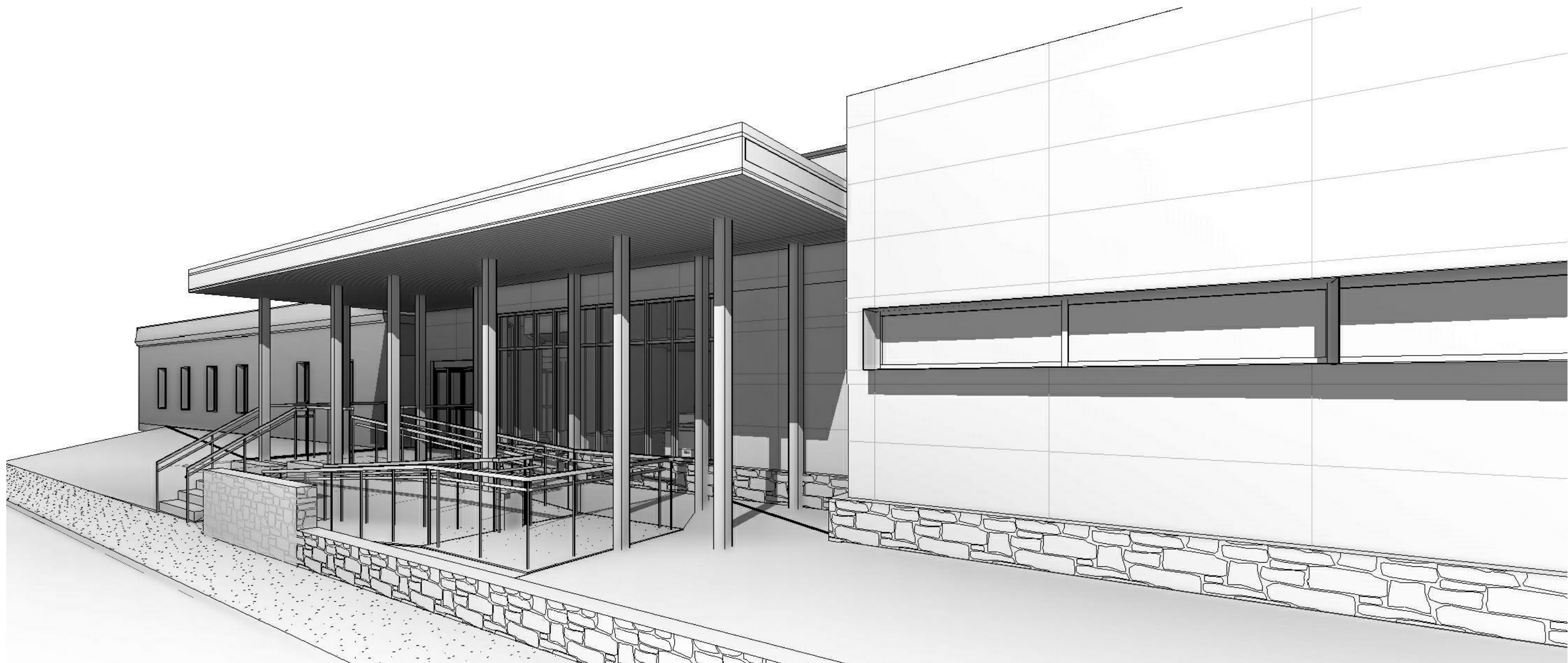




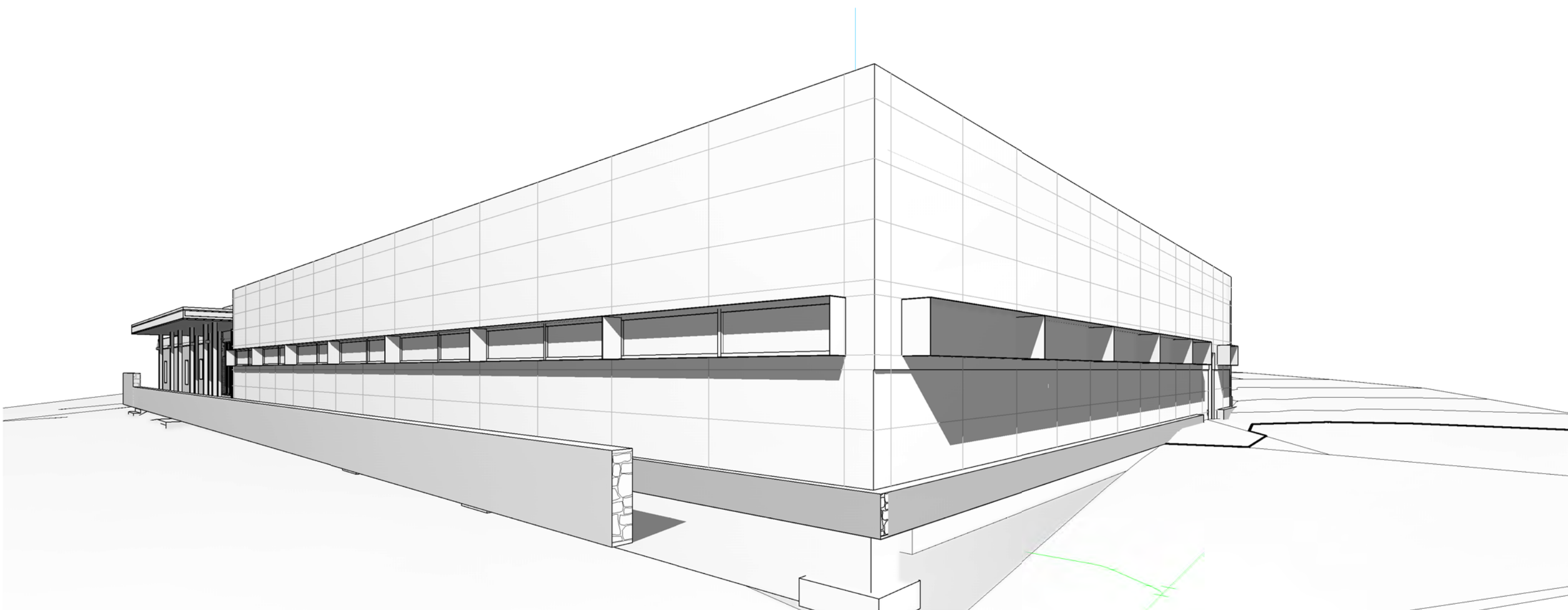
BIM 360://2017.009 Mescalero Indian Hospital Renovation/IHS Mescalero Model option 1.2\_approved v3\_rvt



C3 EXTERIOR PERSPECTIVE - ENTRY LOOKING NW  
NOT TO SCALE



B3 EXTERIOR PERSPECTIVE - ENTRY LOOKING NW  
NOT TO SCALE






A3 EXTERIOR PERSPECTIVE - LOOKING NW

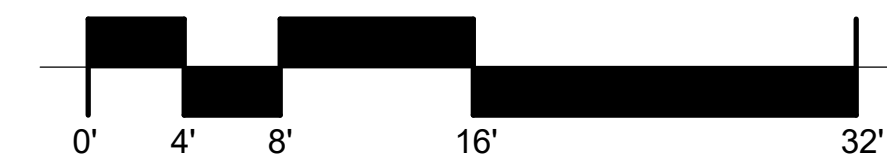
- GENERAL NOTES**
1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
  2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMENCING WORK
  3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
  4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
  5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
  6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

MARK	DATE	DESCRIPTION	PLUMBING
	JULY 20, 2018	ISSUE FOR CONSTRUCTION	
STAMP			
INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC 3737 Phelan Dr. NE, Ste. 100 Albuquerque, NM 87110 Tel: 505.226.2565 Fax: 505.226.2566			
INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110			
Mescalero Service Unit 318 Abalone Loop Mescalero, NM 86503 Otero County RENOVATION & ADDITION EXTERIOR PERSPECTIVES			
DRWN BY			
CHKD BY			
SCALE 1/4" = 1'-0"			
DATE 01/18/18			
A-11			
PROJECT NUMBER 117043			
SHEET of			

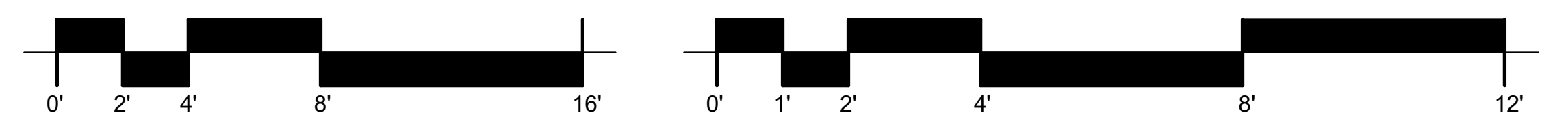




- |   |  |  |   |   |  |   |  |  |   |   |  |   |  |  |   |  |  |   |  |             |  |
|---|--|--|---|---|--|---|--|--|---|---|--|---|--|--|---|--|--|---|--|-------------|--|
| A | DRWN BY<br>CHKD BY   |  | B | MSCALERO SERVICE UNIT<br>318 ABALONE LOOP MSCALERO, NM 86503 OTERO COUNTY<br>RENOVATION & ADDITION<br>BUILDING SECTIONS |  | C | DEPARTMENT OF HEALTH AND HUMAN SERVICES<br>INDIAN HEALTH SERVICE<br>OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING<br>ALBUQUERQUE AREA OFFICE<br>4101 Indian School Road NE<br>Albuquerque, New Mexico 87110 |  | C |  INDIAN HEALTH SERVICE<br>IHS - 1965 |  | C | CONSULTANT<br> INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC<br>3737 Princeton Dr. Ste. 370<br>Albuquerque, NM 87107<br>M 505.225.2565<br>F 505.225.2568 |  | m | STAMP<br> |  | MARK<br>DATE<br>JULY 20, 2018<br>ISSUE FOR CONSTRUCTION |  | DESCRIPTION |  |
|   | SCALE<br>1/4" = 1'-0"<br>DATE<br>01/18/18<br>A-12<br>PROJECT NUMBER<br>117043<br>SHEET<br>of |  |   |   |  |   |  |  |   |   |  |   |  |  |   |  |  |   |  |             |  |







1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

03-4500. B	APPLIED STONE VENEER
05-1200. D	STEEL COLUMN
07-4213. A	METAL WALL PANELS
08-4113. A	ALUMINUM STOREFRONT SYSTEM
09-5460. A	LINEAR METAL PLANK CEILING
10-7100. A	STEEL PLATE SUNSHADE, PAINTED, RE:STRUCTURAL

<p>MISCALERO SERVICE UNIT</p> <p>318 ABALONE LOOP MISCALERO, NM 86503 OTERO COUNTY</p> <p><b>RENOVATION &amp; ADDITION</b></p> <p><b>WALL SECTIONS</b></p>		<p><b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b></p> <p><b>INDIAN HEALTH SERVICE</b></p> <p><b>OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING</b></p> <p><b>ALBUQUERQUE AREA OFFICE</b></p> <p>4101 Indian School Road NE Albuquerque, New Mexico 87110</p>		<p><b>INDIAN HEALTH SERVICE</b></p> <p>PHS • 1955</p>		<p><b>Consistent</b></p> <p><b>INDIGENOUS DESIGN STUDIO • ARCHITECTURE, LLC</b></p> <p>3737 Princeton Dr., NE Ste. 130 Albuquerque, NM 87110 Tel: 505.224.2565 Fax: 505.224.2566</p> <p><b>ID + SA</b></p>		<p><b>STAMP</b></p> <p>STATE OF NEW MEXICO TAMARA R. BEEGER REGISTERED ARCHITECT 7/20/2010</p>				<table border="1"> <thead> <tr> <th>MARK</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td></td> <td>JULY 20, 2018</td> <td>ISSUE FOR CONSTRUCTION</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="2">APPROVED</th> <th>ARCHITECTURAL</th> <th>MECHANICAL</th> <th>ELECTRICAL</th> <th>PLUMBING</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				MARK	DATE	DESCRIPTION		JULY 20, 2018	ISSUE FOR CONSTRUCTION	APPROVED		ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING						
MARK	DATE	DESCRIPTION																															
	JULY 20, 2018	ISSUE FOR CONSTRUCTION																															
APPROVED		ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING																												
<p><b>DRWN BY</b></p>		<p><b>CHKD BY</b></p>		<p><b>SCALE</b></p> <p>1/4" = 1'-0"</p>		<p><b>DATE</b></p> <p>01/18/18</p>		<p><b>A-13</b></p>																									
<p><b>PROJECT NUMBER</b></p> <p>117043</p>																																	
<p><b>SHEET</b></p>		<p><b>of</b></p>																															

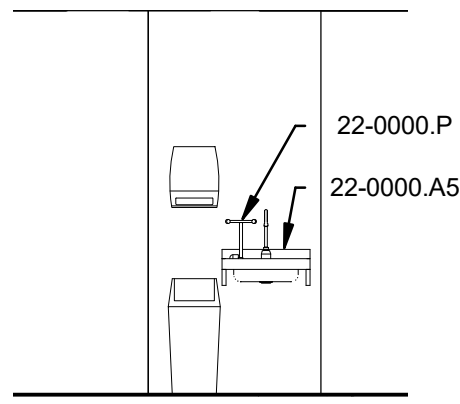




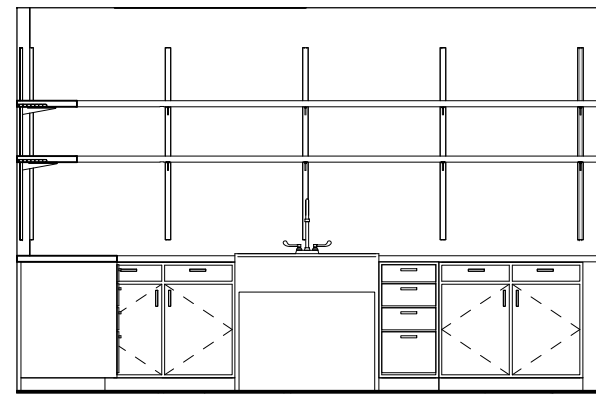
- ## REFERENCE KEYNOTES

- |            |   |
|------------|---|
| 06-4023.B  | BASE CABINET                            |
| 06-4023.D  | COUNTER TOP                             |
| 06-4023.D1 | COUNTER TOP, PLASTIC LAMINATE           |
| 06-4023.D2 | COUNTER TOP, SOLID SURFACE              |
| 08-3323.C  | COILING DOOR, COUNTER                   |
| 08-4113.A  | ALUMINUM STOREFRONT SYSTEM              |
| 08-5113.A  | ALUMINUM WINDOW                         |
| 09-8413.A  | ACCOUSTICAL WALL PANELS- FABRIC COVERED |
| 10-2800.A  | GRAB BAR                                |
| 10-2800.A3 | GRAB BAR, VERTICAL, 18"                 |
| 10-2800.M  | MIRROR, SIZE                            |
| 22-0000.A2 | WALL MOUNTED TOILET                     |
| 22-0000.A4 | WALL MOUNTED HAND WASH SINK             |

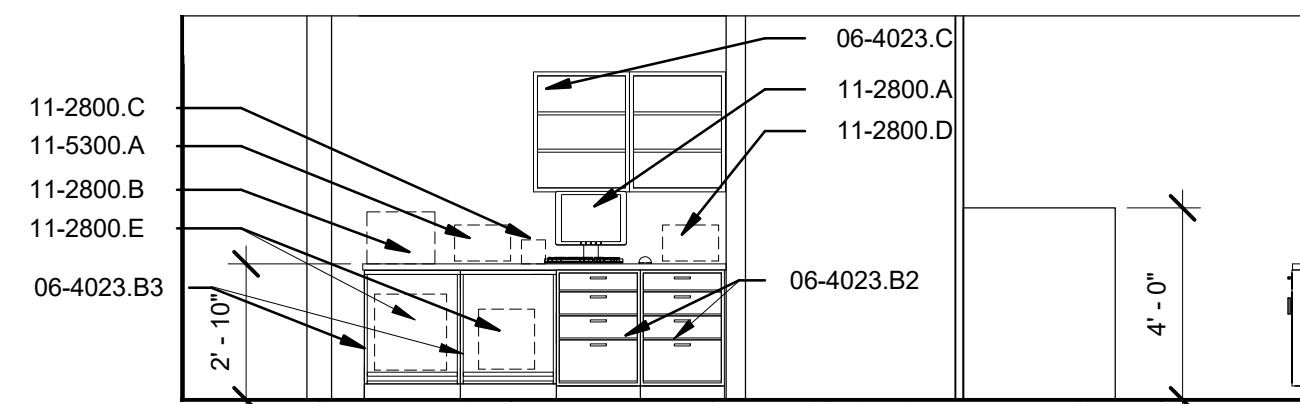




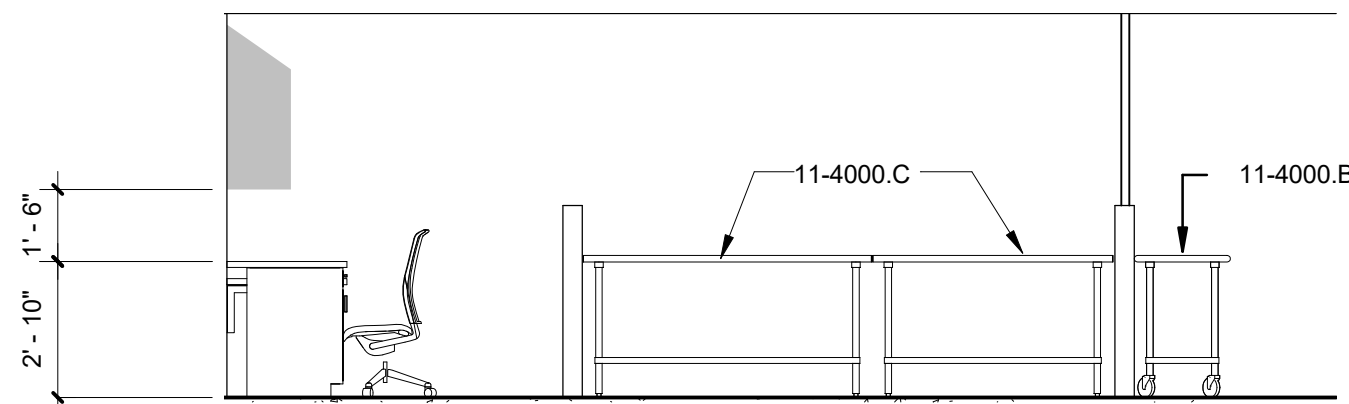
**E3** LAB SOUTH ELEVATION  
1/4" = 1'-0"



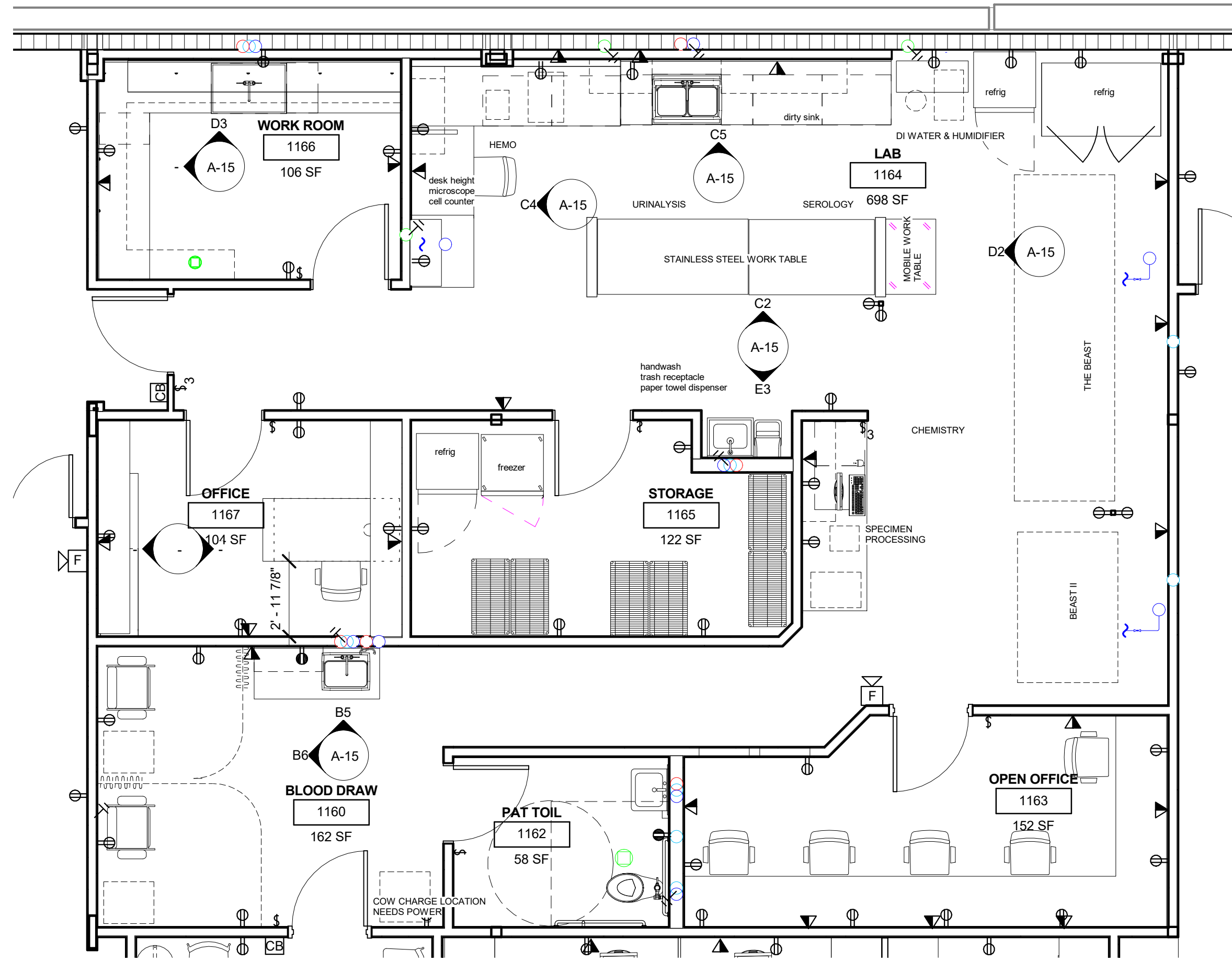
**D3 LAB WORK ROOM NORTH**  
1/4" = 1'-0"



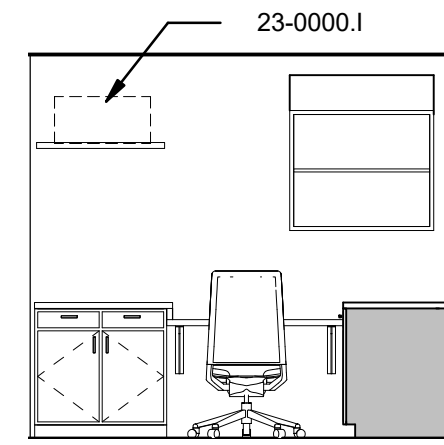
**(D2) SPECIMEN PROCESSING**  
1/4" = 1'-0"



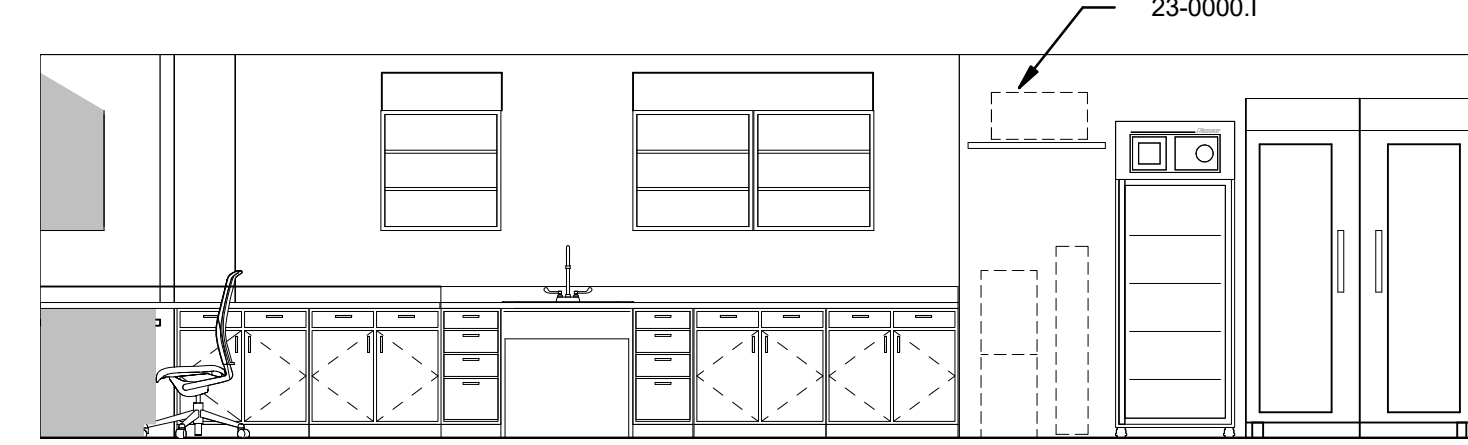
**C2 URINANALYSIS WORK BENCH**  
1/4" = 1'-0"



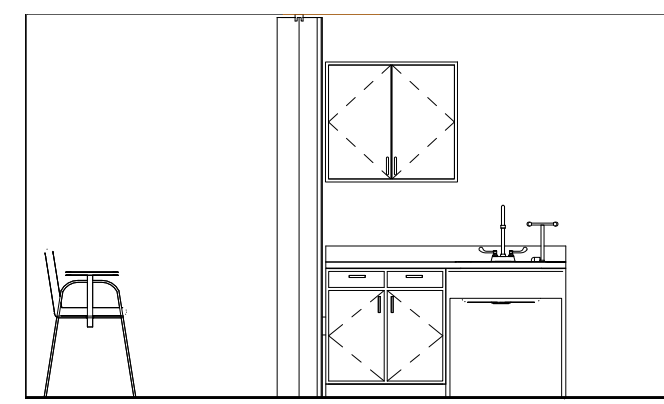
**D4 FLOOR PLAN - LABORATORY**  
1/4" = 1'-0"



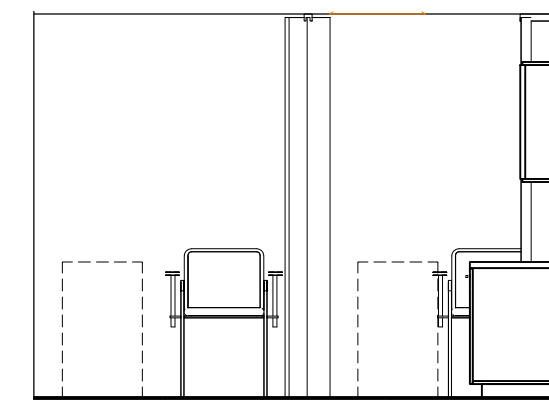
**C4** **HEMATOLOGY WEST**  
1/4" = 1'-0"



C5 HEMATOLOGY NORTH  
1/4" = 1'-0"



**B5** BLOOD DRAW AT SINK  
1/4" = 1'-0"



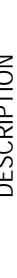



B6 BLOOD DRAW  
1/4" = 1'-0"

### GENERAL NOTES

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

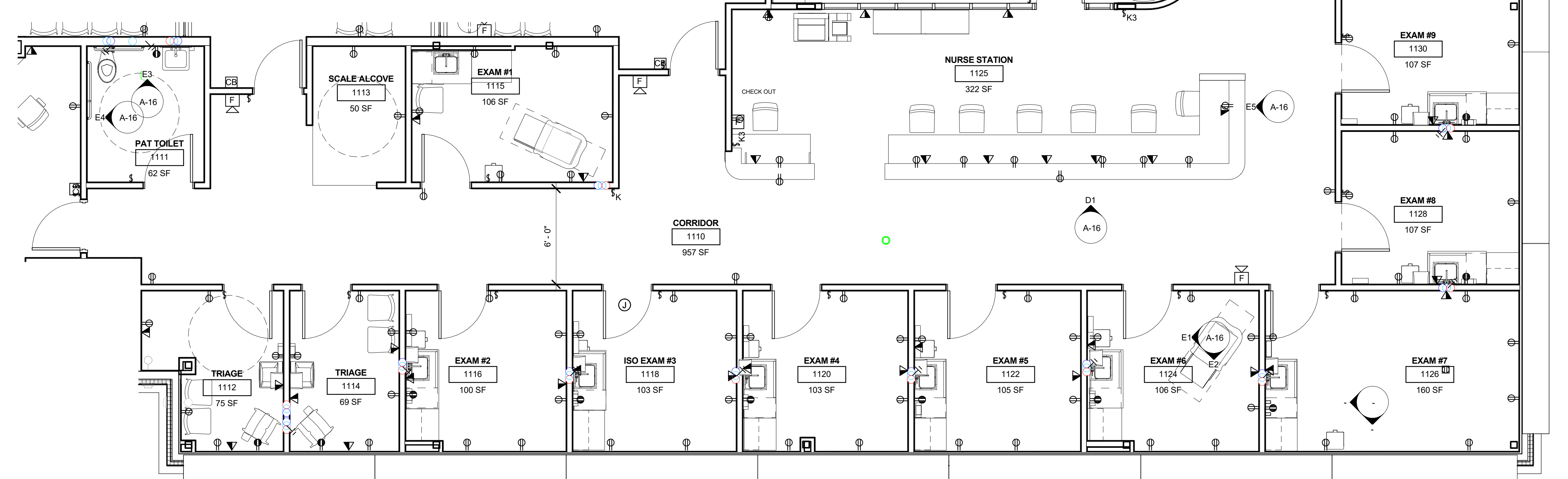
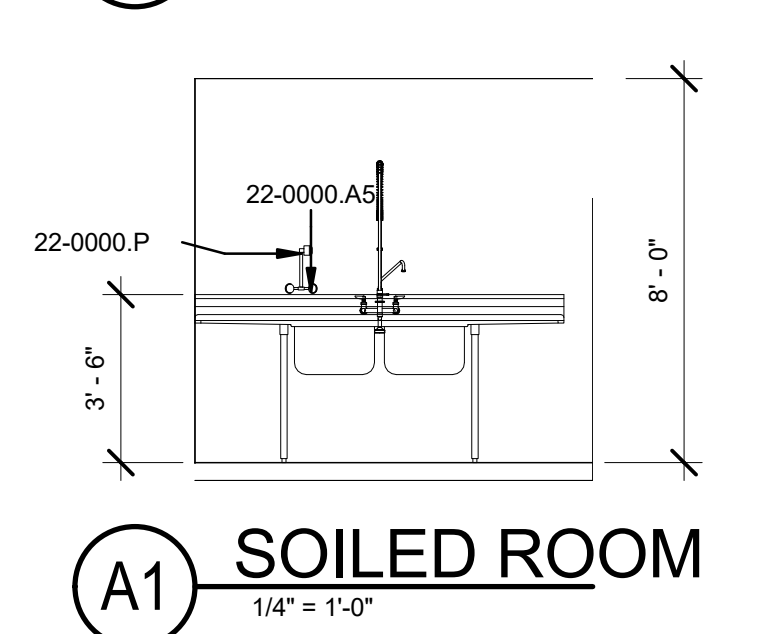
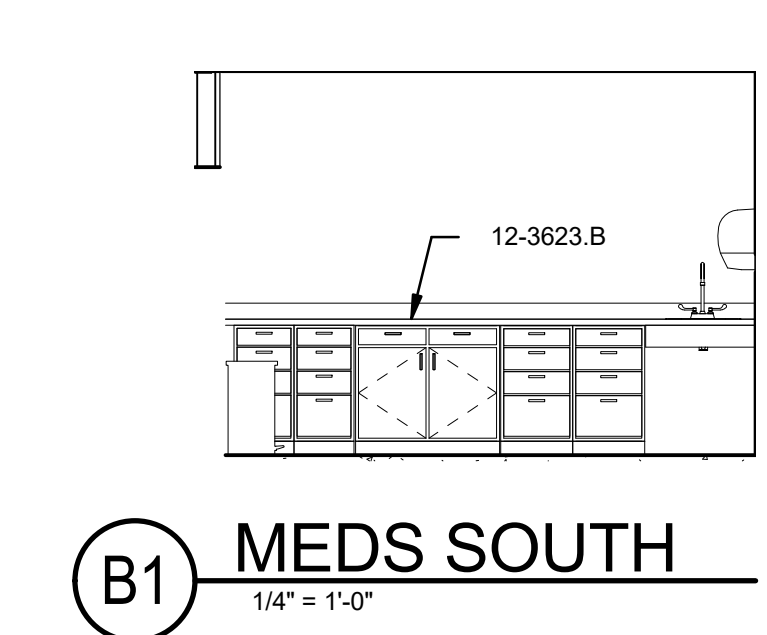
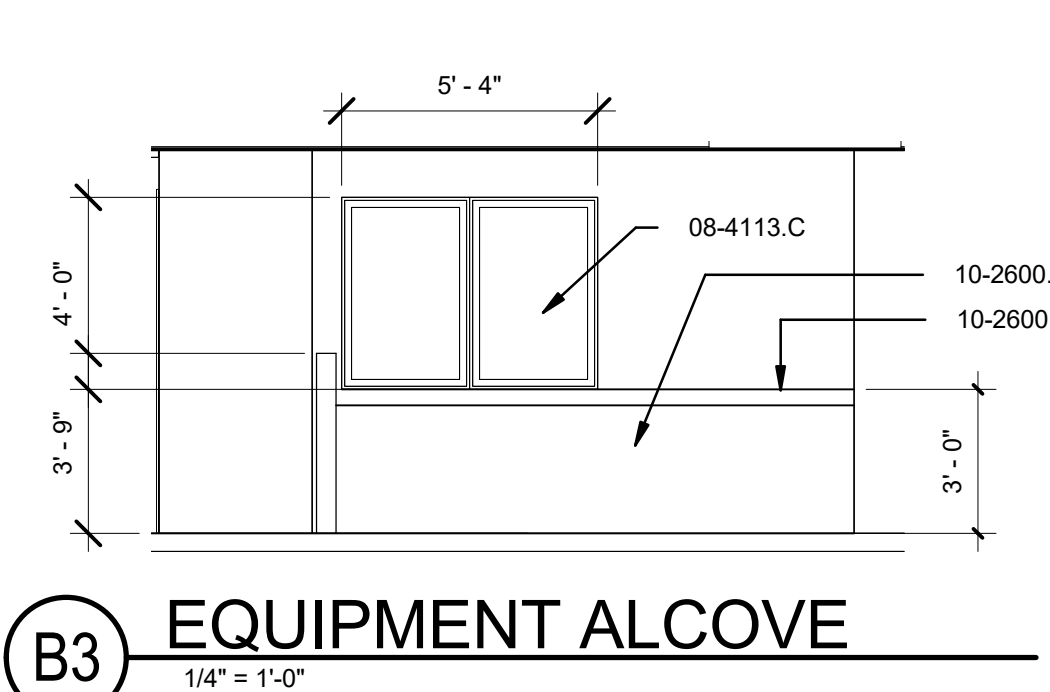
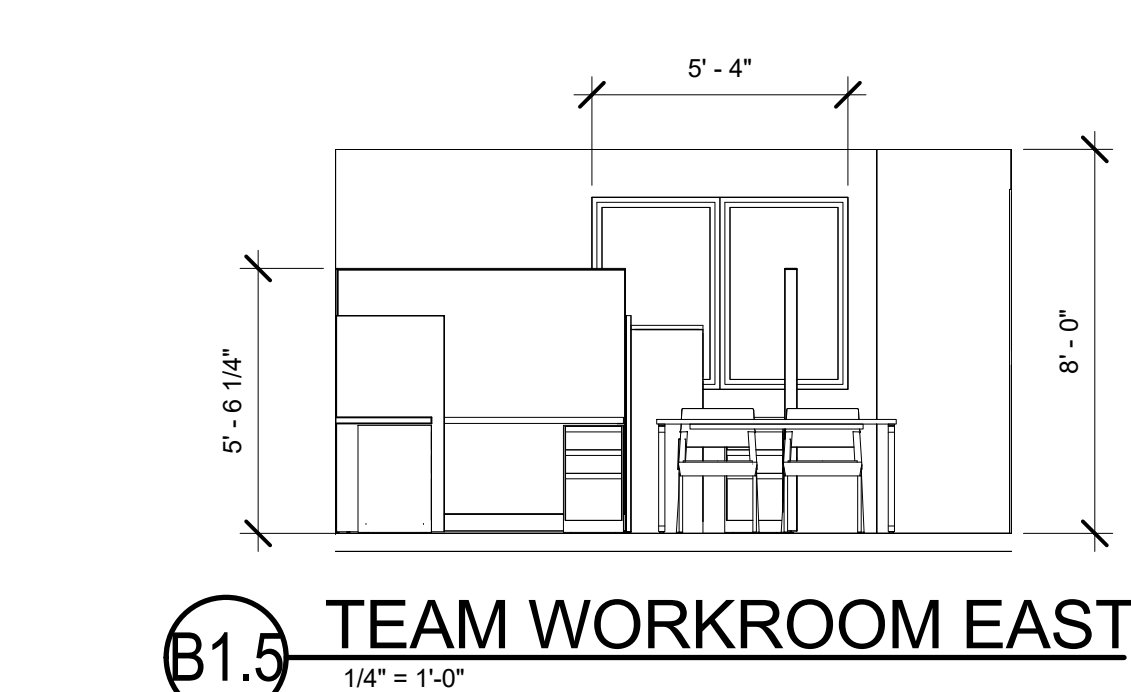
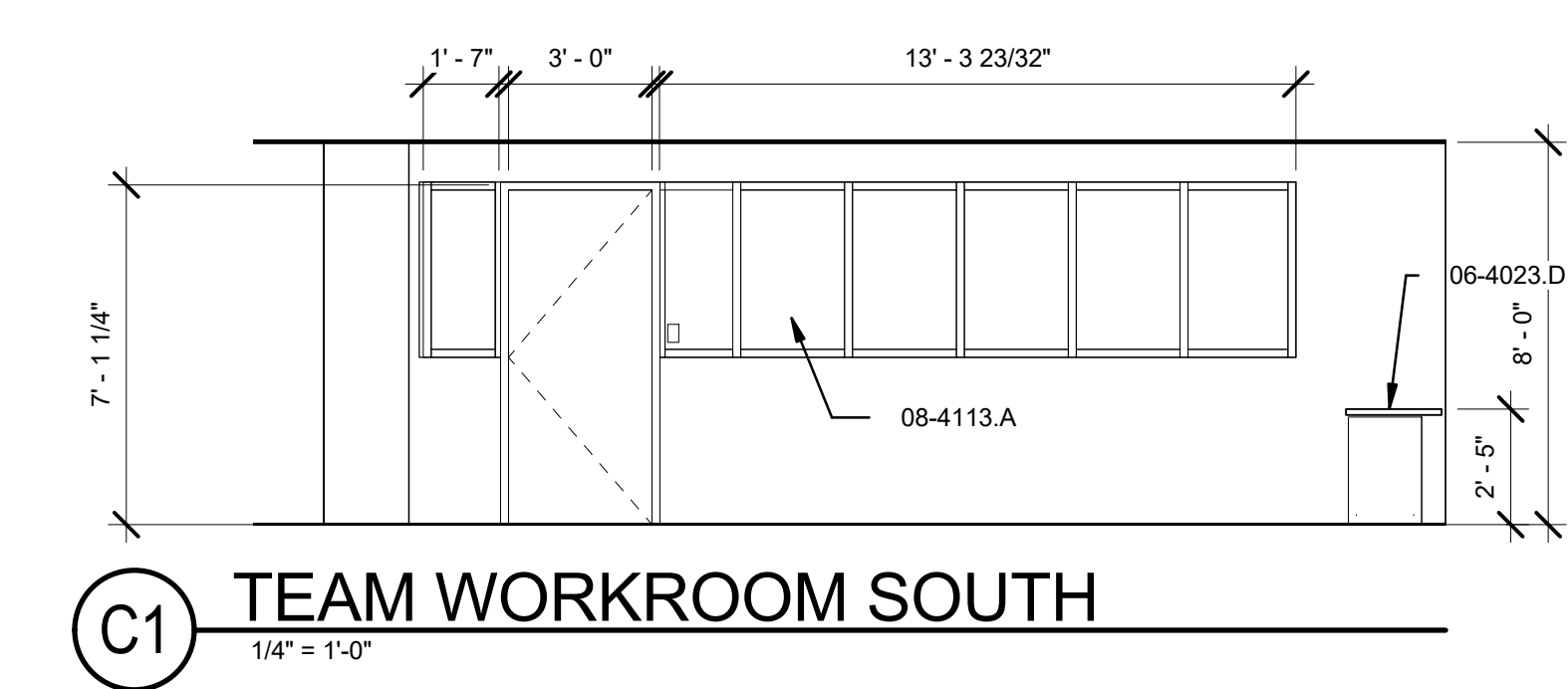
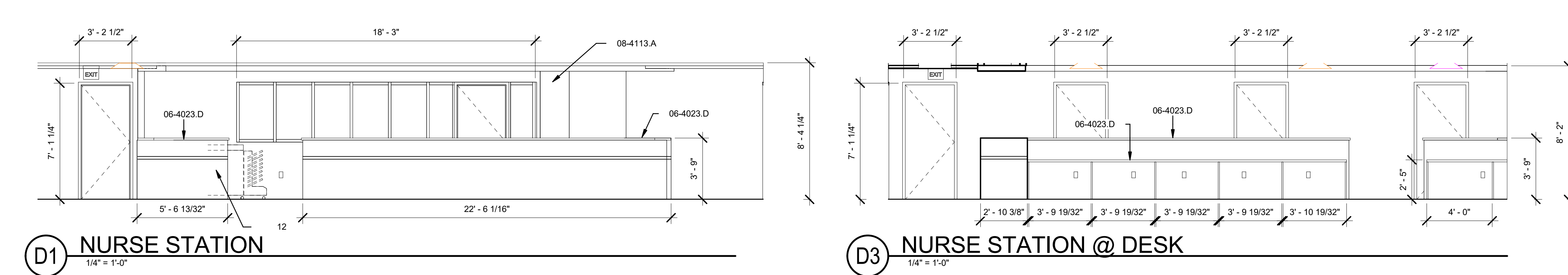
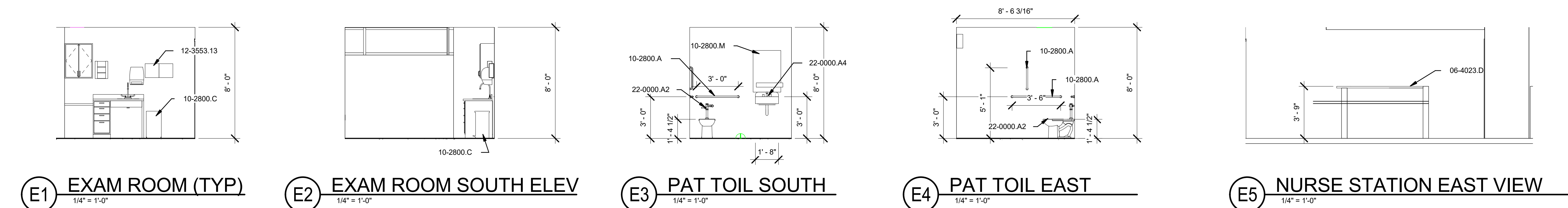
## REFERENCE KEYNOTES

- |            |  |
|------------|--|
| 06-4023.B2 | BASE CABINET DRAWERS                           |
| 06-4023.B3 | BASE CABINET OPEN W/ ROLLER SHELF              |
| 06-4023.C  | WALL CABINET                                   |
| 11-2800.A  | COMPUTER, MONITOR, AND MOUSE                   |
| 11-2800.B  | PRINTER OF/OI                                  |
| 11-2800.C  | LABEL PRINTER OF/OI                            |
| 11-2800.D  | FAX OF/OI                                      |
| 11-2800.E  | QUEST PRINTER OF/OI                            |
| 11-4000.B  | STAINLESS STEEL WORK TABLE 24" X 36"           |
| 11-4000.C  | STAINLESS STEEL WORK TABLE 36" X 60"           |
| 11-5300.A  | QUEST CENTRIFUGE OF/OI                         |
| 22-0000.A5 | WALL MOUNTED STAINLESS STEEL HAND<br>WASH SINK |
| 22-0000.P  | EYE WASH STATION                               |
| 23-0000.I  | HUMIDIFIER                                     |

SHEET	of	PROJECT NUMBER 117043	A-15	DATE 02/13/18	SCALE 1/4" = 1'-0"	CHKD BY	DRWN BY	<b>INTERIOR ELEVATIONS - LABORATORY</b>  <b>RENOVATION &amp; ADDITION</b>  318 ABALONE LOOP, MESCALERO, NM 86503 OTERO COUNTY MESCALERO SERVICE UNIT	 <b>INDIAN HEALTH SERVICE</b> OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	 <b>INDIAN HEALTH SERVICE</b> 5561	Consultant  <b>INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC</b> 3737 Princeton Dr., NE Ste. 130 Albuquerque, NM 87107 Tel: 505.224.2565 Fax: 505.224.2566		STAMP		APPROVED	ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	MARKS DATE JULY 20, 2018 ISSUED FOR CONSTRUCTION	DESCRIPTION



BIM 360//2017.009 Mescalero Indian Hospital Renovation/IHS Mescalero Model option 1.2\_approved v3\_rvt



- GENERAL NOTES**
- ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
  - CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMENCING WORK
  - CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
  - PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
  - CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
  - REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

**REFERENCE KEYNOTES**

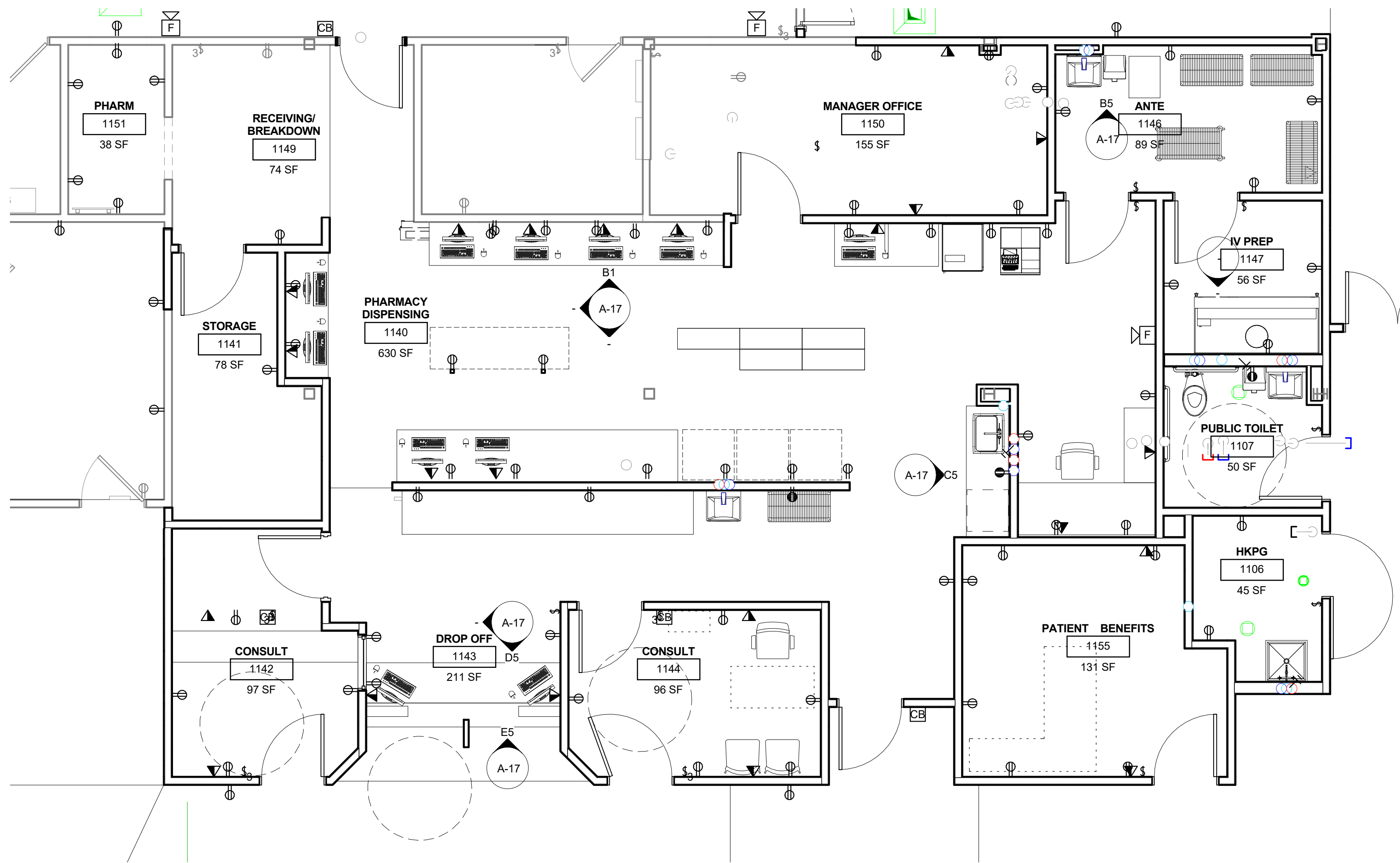
- |            |   |
|------------|---|
| 06-4023.D  | COUNTER TOP                                 |
| 08-4113.A  | ALUMINUM STOREFRONT SYSTEM                  |
| 08-4113.C  | ALUMINUM FRAME                              |
| 10-2600.C  | WALL PROTECTION                             |
| 10-2600.D  | WALL BUMPER                                 |
| 10-2800.A  | GRAB BAR                                    |
| 10-2800.M  | WASTE RECEPTACLE                            |
| 10-2800.M  | MIRROR, SIZE                                |
| 12-3553.13 | LABORATORY METAL CASEWORK 12-3553           |
| 12-3623.B  | STAINLESS STEEL COUNTERTOP                  |
| 22-0000.A2 | WALL MOUNTED TOILET                         |
| 22-0000.A4 | WALL MOUNTED HAND WASH SINK                 |
| 22-0000.A5 | WALL MOUNTED STAINLESS STEEL HAND WASH SINK |
| 22-0000.P  | EYE WASH STATION                            |



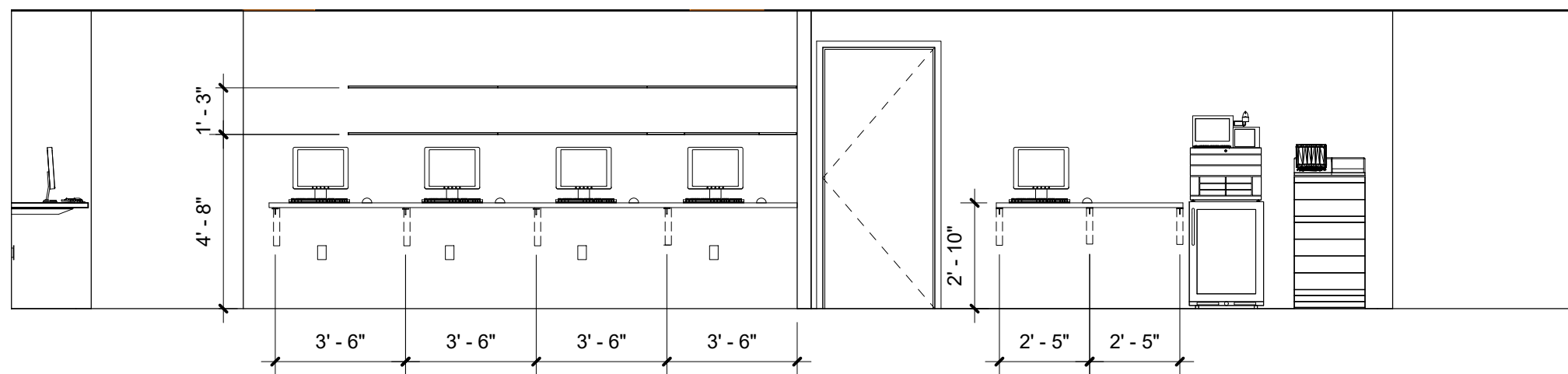
MARK	DATE	DESCRIPTION
	JULY 20, 2018	ISSUE FOR CONSTRUCTION
STAMP		
INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC		
3737 Princeton Dr. NE, Suite 100		
Albuquerque, NM 87110		
Tel: 505.226.2545		
Fax: 505.226.2546		
INDIAN HEALTH SERVICE		
DEPARTMENT OF HEALTH AND HUMAN SERVICES		
INDIAN HEALTH SERVICE		
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING		
ALBUQUERQUE AREA OFFICE		
4101 Indian School Road NE		
Albuquerque, New Mexico		
87110		
MESCALERO SERVICE UNIT		
318 ABALONE LOOP MESCALERO, NM 86503		
OTERO COUNTY		
RENOVATION & ADDITION		
INTERIOR ELEVATIONS - PRIMARY CARE		
DRWN BY		
CHKD BY		
SCALE		
1/4" = 1'-0"		
DATE		
01/16/18		
A-16		
PROJECT NUMBER		
117043		
SHEET		
of		



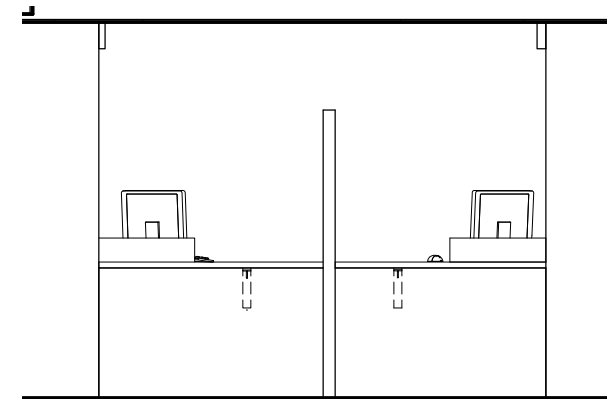
BIM 360://2017.009 Mescalero Indian Hospital Renovation/IHS Mescalero Model option 1.2\_approved v3\_rvt



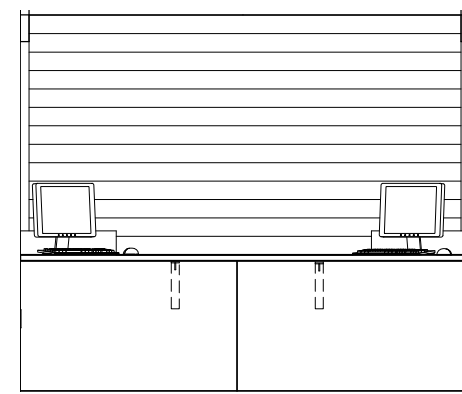
C1 FLOOR PLAN - PHARMACY  
1/4" = 1'-0"



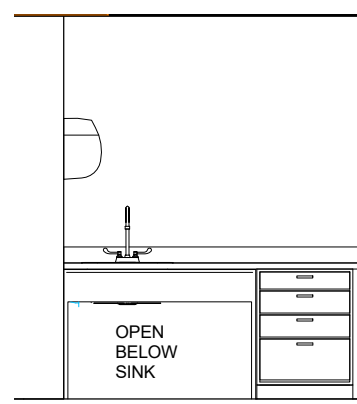
B1 PHARM DISPENSING NORTH  
1/4" = 1'-0"



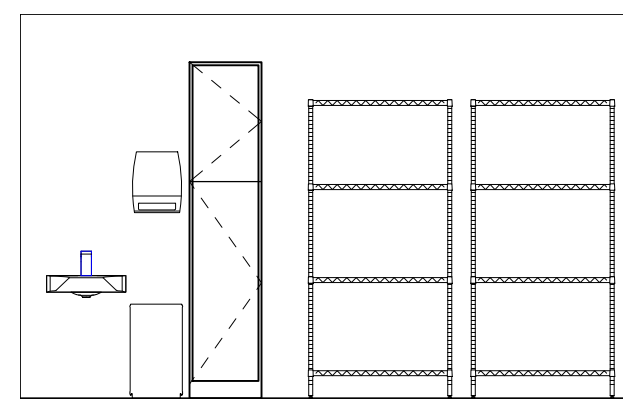
E5 PHARMACY DROP OFF CORRIDOR SIDE  
1/4" = 1'-0"



D5 PHARMACY DROP OFF  
1/4" = 1'-0"



C5 PHARMACY SUSPENSION  
1/4" = 1'-0"



B5 ANTE ROOM  
1/4" = 1'-0"


#### GENERAL NOTES

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

#### REFERENCE KEYNOTES

MARK	DATE	DESCRIPTION	STAMP
	JULY 20, 2018	ISSUE FOR CONSTRUCTION	
		APPROVED	
		ARCHITECTURAL	
		MECHANICAL	
		ELECTRICAL	
		PLUMBING	

INDIGENOUS DESIGN STUDIO - ARCHITECTURE, LLC  
3737 Princeton Dr., NE, Suite 100  
Albuquerque, NM 87110  
Tel: 505.224.2545  
Fax: 505.224.2546

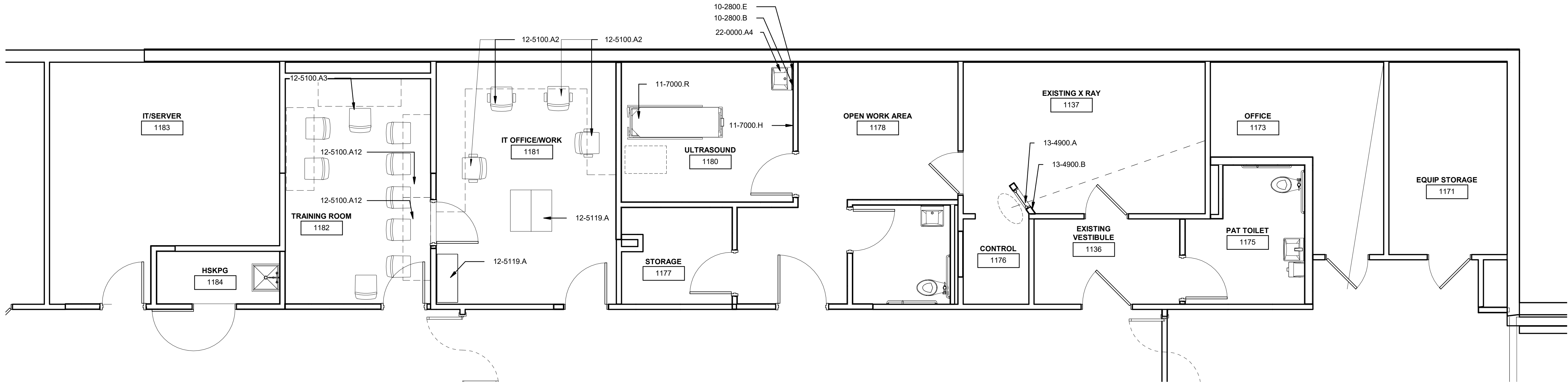
  
INDIAN HEALTH SERVICE  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY  
RENOVATION & ADDITION  
INTERIOR ELEVATIONS - PHARMACY

DRWN BY  
CHKD BY  
SCALE  
1/4" = 1'-0"  
DATE  
01/16/18  
A-17  
PROJECT NUMBER  
117043  
SHEET  
of





C1 BIO MED, IT RADIOLOGY  
1/4" = 1'-0"

GENERAL NOTES

1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMENCING WORK
3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF DISSIMILAR FINISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION
7. FURNITURE IS SHOWN AS GUIDE.
8. ALL WALLS ARE TO BE TYPE A PARTITIONS UNLESS OTHERWISE NOTED.
9. REFERENCE REFLECTED CEILING PLAN FOR CEILING HEIGHTS.

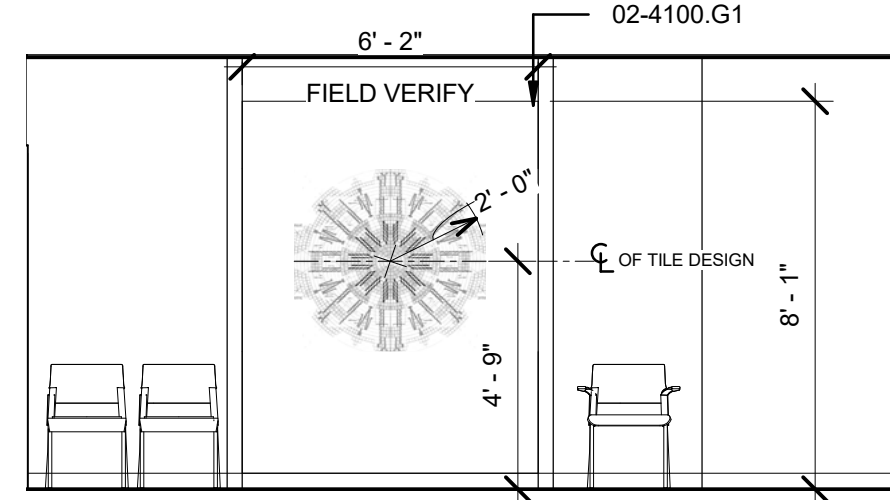
SHEET KEYNOTES

REFERENCE KEYNOTES

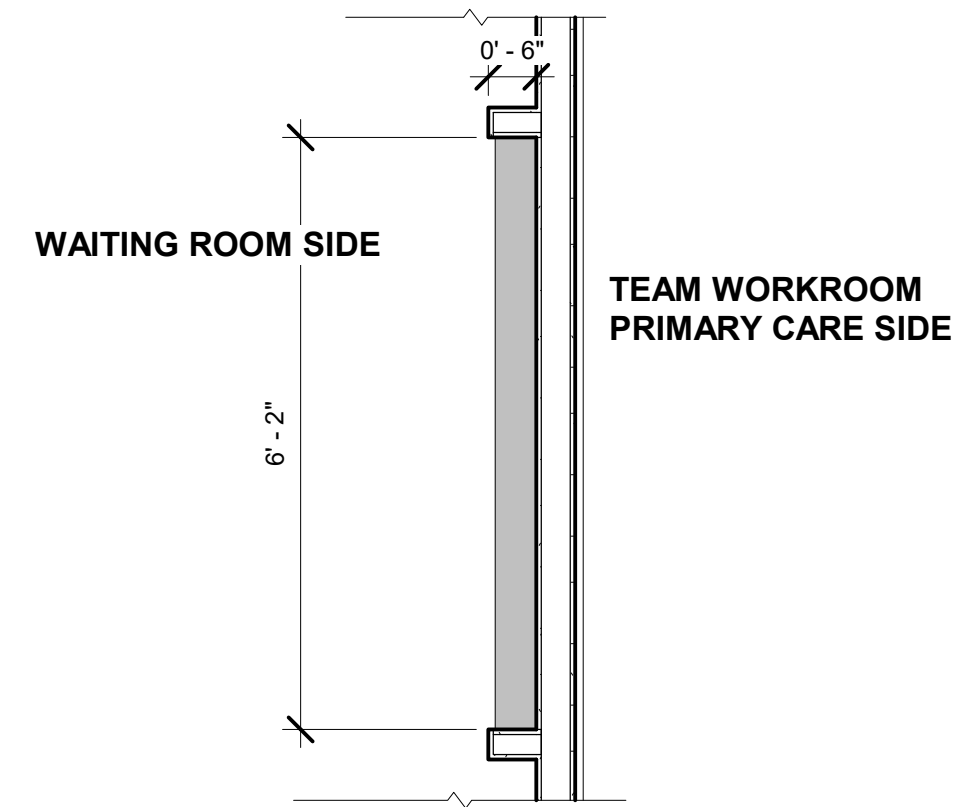
- |             |   |
|-------------|---|
| 10-2800.B   | PAPER TOWEL DISPENSER OFCI                            |
| 10-2800.E   | SOAP DISPENSER OFCI                                   |
| 11-7000.H   | GLOVE BOX DISPENSER OFCI                              |
| 11-7000.R   | STRETCHER,PATIENT                                     |
| 12-5100.A2  | CHAIR, TASK W/ARMS OFOI                               |
| 12-5100.A3  | CHAIR, TASK WO/ARMS OFOI                              |
| 12-5100.A12 | TABLE, TRAINING OFOI                                  |
| 12-5119.A   | FILING CABINETS, LATERAL OFOI                         |
| 13-4900.A   | RADIATION SHIELDING, GLAZING                          |
| 13-4900.B   | RADIATION SHIELDING, LEAD LAMINATED GYPSUM BOARD 5/8" |
| 22-0000.A4  | WALL MOUNTED CHINA HAND WASH SINK                     |

INDIGENOUS DESIGN STUDIO • ARCHITECTURE, LLC 3737 Providence Dr. NE, Suite 100 Albuquerque, NM 87117 Tel: 505.225.2555 Fax: 505.225.2556	INDIAN HEALTH SERVICE & ENGINEERING INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	Mescalero Service Unit 318 Abalone Loop Mescalero, NM 86503 RENOVATION & ADDITION IT, RADIOLOGY, BIO MED RENOVATION	DRWN BY CHKD BY SCALE 1/4" = 1'-0" DATE 02/22/18 A-18 PROJECT NUMBER 117043 SHEET of	DESCRIPTION ISSUE FOR CONSTRUCTION INTERNAL REVIEW AMENDMENT 2 ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	DATE JULY 20, 2018 APRIL 09, 2021 10/14/2021	MARK 1 2	STAMP STATE OF NEW MEXICO Professional Seal No. 118 7/22/2018 REGISTERED ARCHITECT
				APPROVED 4/9/2021			





**E5 MOSAIC TILE WALL ELEVATION**  
1/4" = 1'-0"

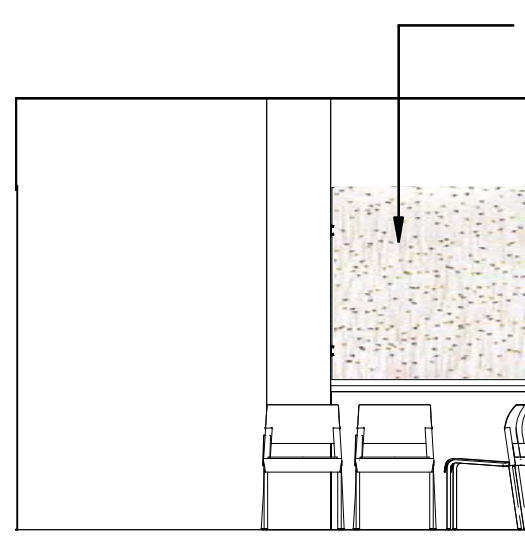


**E6** ENLARGED PLAN - MOSIAC TILE  
1/2" = 1'-0"

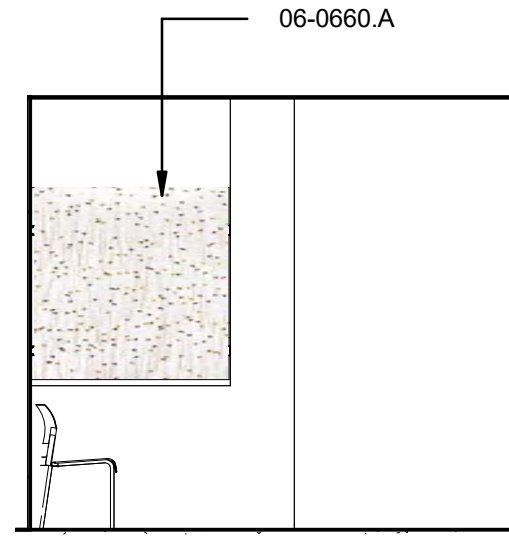
- ### GENERAL NOTES
1. ALL NOTES ARE TO THE FACE OF STUD OR MASONRY UNIT
  2. CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL INFORM THE OFFICE OF THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK
  3. CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS OF ATTACHEMENTS, WALL HUNG CABINETS, ACCESSORIES AND HARDWARE.
  4. PROVIDE CONTINUOUS CAULKING AT ALL JOINTS OF SIMILAR FISH AND MATERIAL AS REQUIRED FOR FIRE STOPPING
  5. CONTRACTOR SHALL PROVIDE FULL INSTALLATION OF EQUIPMENT AND APPLIANCES AS DEPICTED AND ALL APPURTENANCES NECESSARY FOR INSTALLATION UNLESS NOTED OTHERWISE
  6. REFER TO INTERIOR ELEVATIONS FOR CASEWORK, ACCESSORIES AND EQUIPMENT, AS OCCURS, FOR INSTALLATION

## REFERENCE KEYNOTES

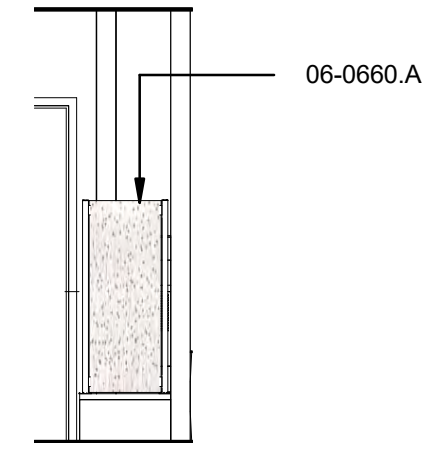
- 02-4100. RELOCATED WALL AND MOSIAC TILE  
G1  
06-0660. 3FORM DECORATIVE WALL PANEL  
A



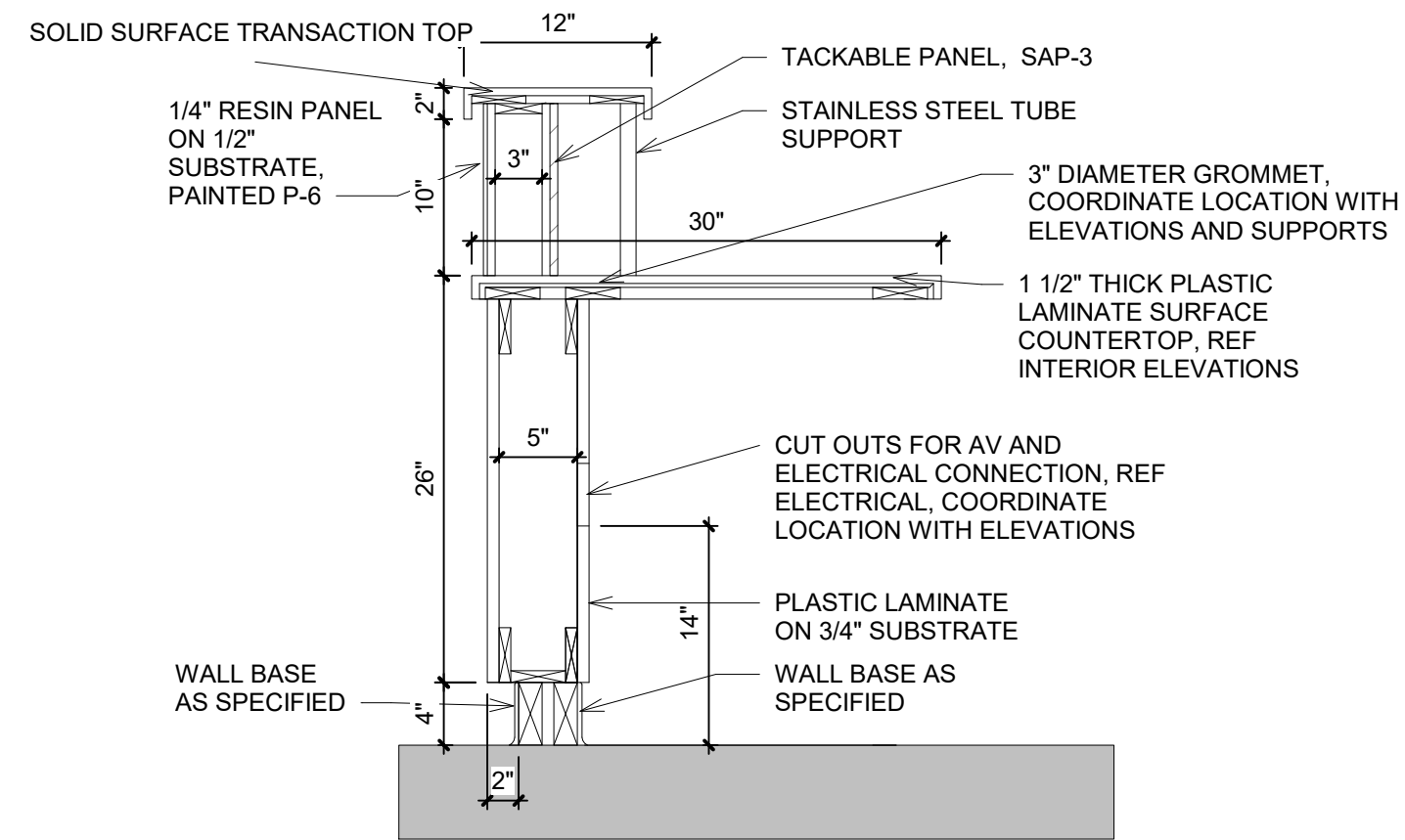
**D4** EAST WALL AT WAITING  
1/4" = 1'-0"



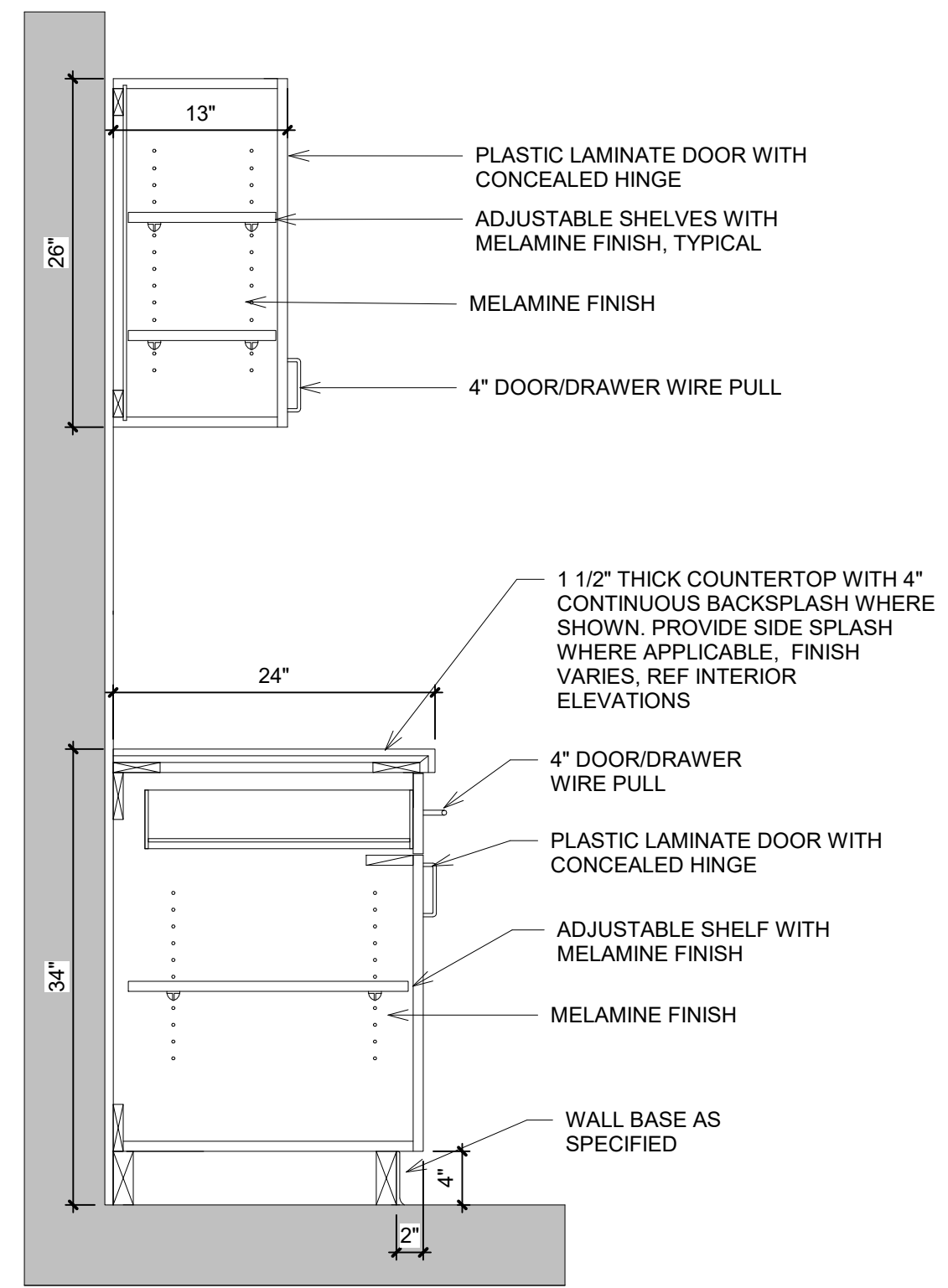
D5 WALL AT WAITING  
1/4" = 1'-0"



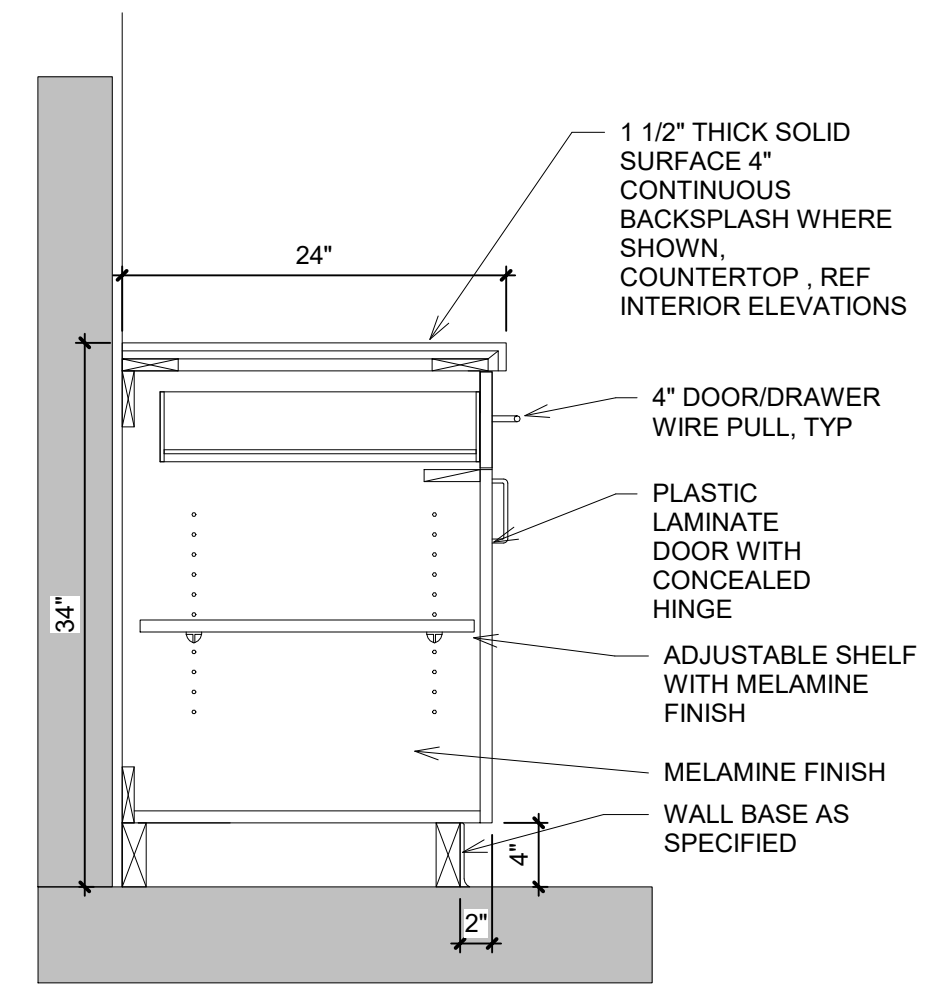
WALL AT WATER  
COOLER



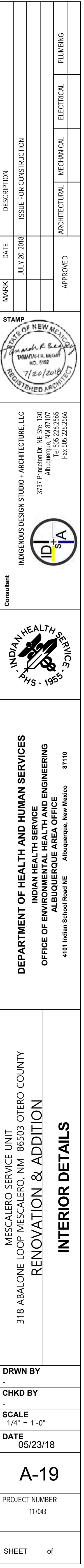
**B2** SECTION @ GREETER DESK  
1" = 1'-0"



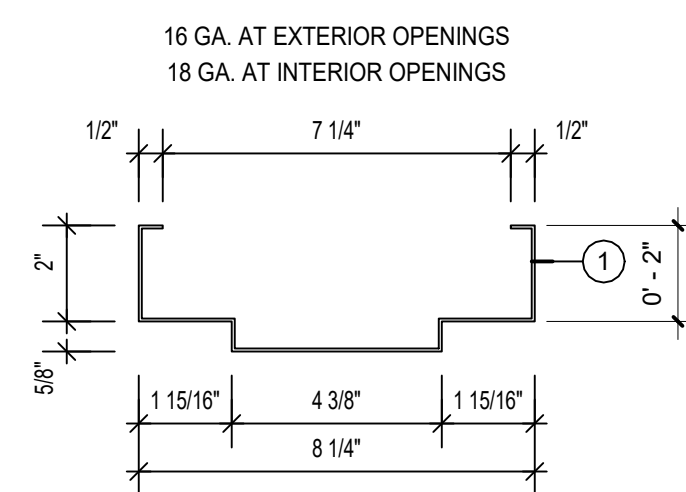
**B4** SECTION AT WALL & BASE CABINET  
1" = 1'-0"



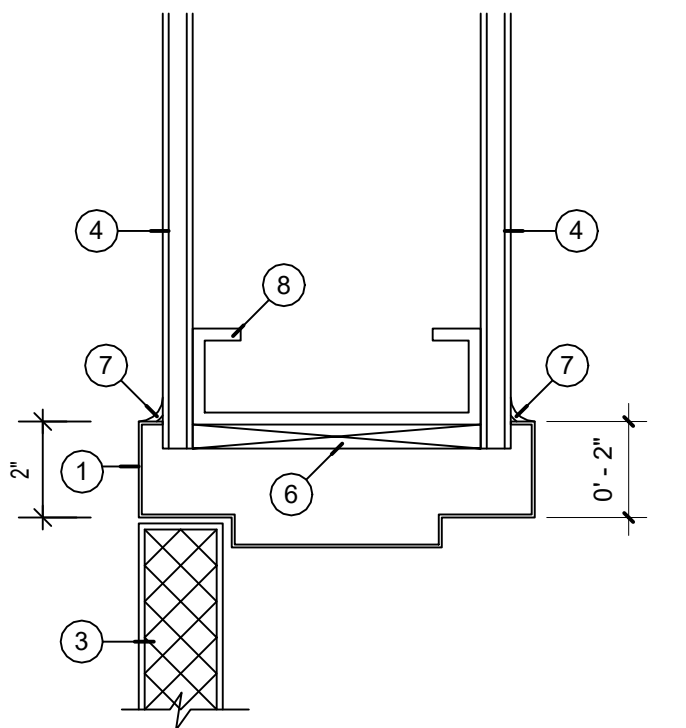
**B5** SECTION AT BASE CABINET  
1" = 1'-0"







E2 6" STUD FRAMED WALL



D2 HEAD / JAMB (INT.)  
Scale: 3"=1'-0"

- C1 DOOR DETAILS**  
3" = 1'-0"

The image contains architectural drawings of various door types, labeled TYPE A through TYPE G. The drawings include dimensions and labels for components like 'Fin. Floor', 'COUNTER FLOOR', and 'DOOR HEIGHT REFER TO SCHEDULE'.

**TYPE A:** SINGLE SLUSH DOOR. Dimensions: 0' - 2" (width), 7' - 0" (height).

**TYPE B:** NARROW LIGHT. Dimensions: 0' - 6" (width), 0' - 6" (height).

**TYPE C:** HALF GLASS. Dimensions: 0' - 6" (width), 0' - 6" (height).

**TYPE D:** DOUBLE SLUSH DOOR. Dimensions: 0' - 6" (width), 0' - 6" (height).

**TYPE E:** DOUBLE LIGHT. Dimensions: 0' - 6" (width), 0' - 6" (height).

**TYPE F:** Dimensions: 0' - 6" (width), 0' - 6" (height).

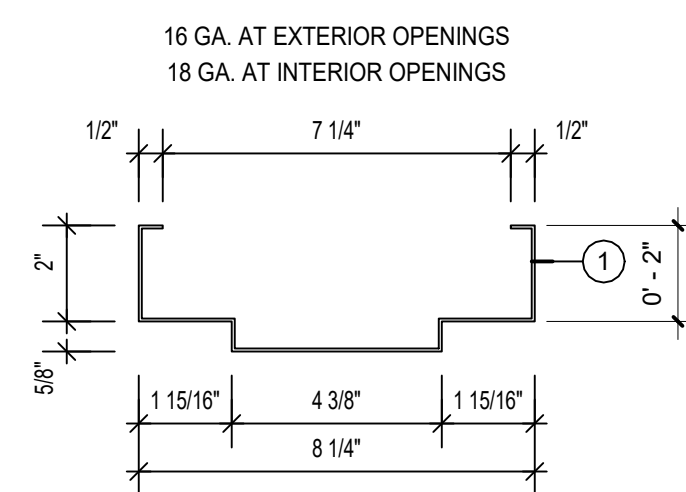
**TYPE G:** COUNTER DOOR. Dimensions: DOOR WIDTH (width), DOOR HEIGHT REFER TO SCHEDULE (height). Labels: COUNTER FLOOR, DOOR HEIGHT REFER TO SCHEDULE.

**TYPE FA:** Dimensions: 0' - 2" (width), 3' - 0" (width), 0' - 2" (width), 7' - 0" (height).

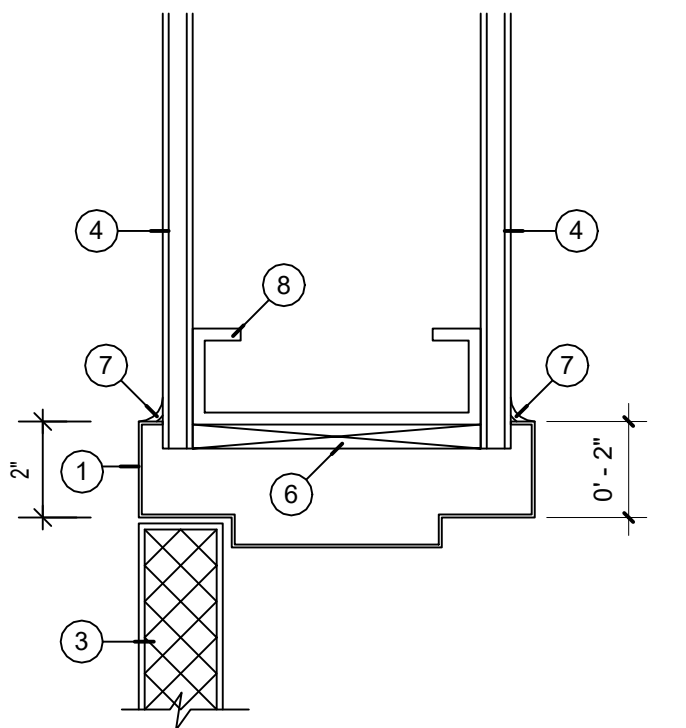
**TYPE FB:** Dimensions: 0' - 2" (width), 6' - 0" (width), 0' - 2" (width), 7' - 0" (height).

## REFERENCE KEYNOTES





E2 6" STUD FRAMED WALL



D2 HEAD / JAMB (INT.)  
Scale: 3"=1'-0"

- C1 DOOR DETAILS**  
3" = 1'-0"

The drawings illustrate seven door types (A-G) with their respective dimensions and features:

- TYPE A:** Narrow Elong Door. Dimensions: 0'-6" wide, 0'-5" high. Features a narrow vertical glass insert.
- TYPE B:** Narrow Light. Dimensions: 0'-6" wide, 0'-5" high. Features a narrow vertical glass insert.
- TYPE C:** Half Glass. Dimensions: 0'-6" wide, 0'-5" high. Features a large rectangular glass insert.
- TYPE D:** Double Elong Door. Dimensions: 0'-6" wide, 0'-5" high. Features a large rectangular glass insert.
- TYPE E:** Double Elong Door. Dimensions: 0'-6" wide, 0'-5" high. Features a large rectangular glass insert.
- TYPE F:** Double Elong Door. Dimensions: 0'-6" wide, 0'-5" high. Features a large rectangular glass insert.
- TYPE G:** Cooling Counter Door. Dimensions: 0'-6" wide, 0'-5" high. Features a large rectangular glass insert.

Additional dimensions and labels include:

- Door Width:** 0'-6" (indicated for Type G).
- Door Height:** 0'-5" (indicated for Type G).
- Fin. Floor:** Finished floor level (indicated for Type A).
- Counter Floor:** Counter floor level (indicated for Type G).
- Labels:** NARROW LIGHT, HALF GLASS, DOUBLE ELONG DOOR, COOLING COUNTER DOOR.

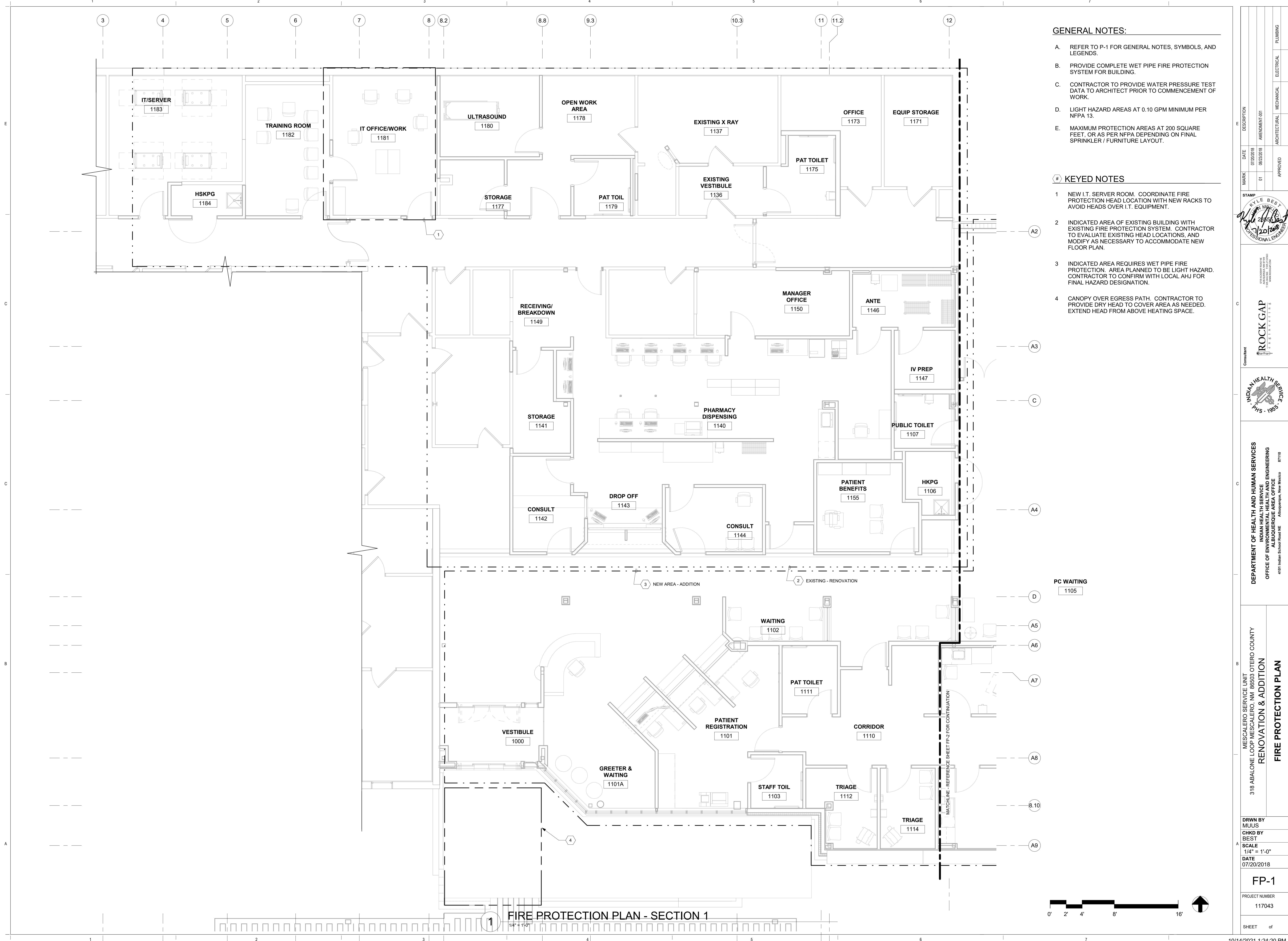
## REFERENCE KEYNOTES










\\gvm-fserver\users\sls\ahg\Documents\20-107 IHS Mescalero\_MEP\_v20\_islahg\MLF.rvt



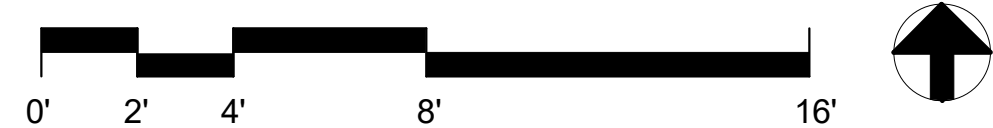
MARK	DATE	DESCRIPTION	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
STAMP							
							
Consultant							
 ROCK GAP ARCHITECTS P.C. 679 ACADEMY DRIVE NE ALBUQUERQUE, NM 87102-1043 TEL: 505.242.4600 FAX: 505.242.1044 WWW.ROCKGAP.COM							
 INDIAN HEALTH SERVICE S.H.S. • 1955							
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110							
MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY RENOVATION & ADDITION FIRE PROTECTION PLAN							
DRWN BY MUUS							
CHKD BY BEST							
SCALE 1/4" = 1'-0"							
DATE 07/20/2018							
FP-1							
PROJECT NUMBER 117043							
SHEET of							





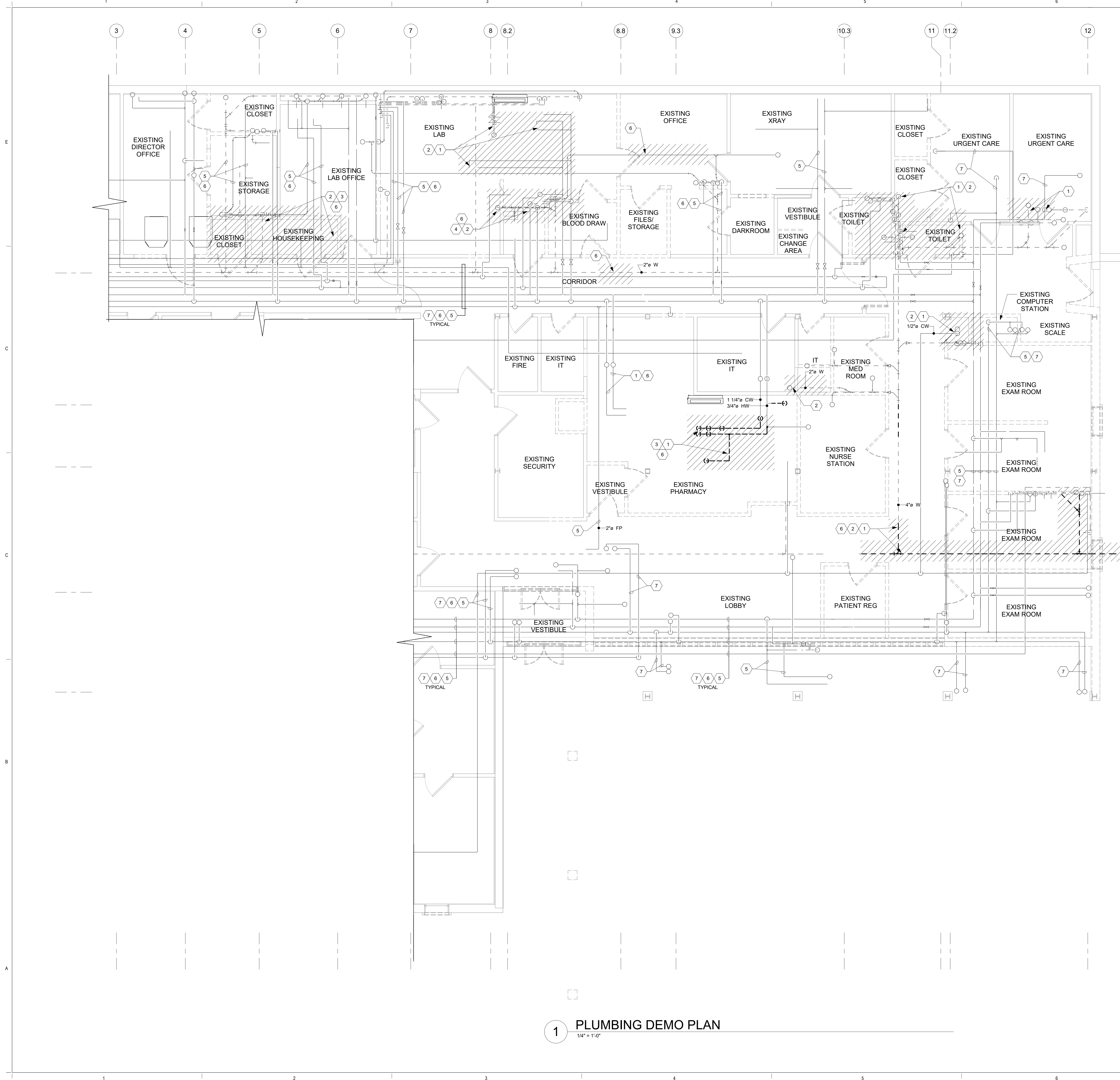
1/4" = 1'-0"

- ## # KEYED NOTES
- 1 FIRE PROTECTION SUPPLY PIPE DOWN FROM FIRE ENTRY IN MECHANICAL ROOM. REFER TO ROOM PLAN FOR CONTINUATION.
  - 2 INDICATED AREA REQUIRES WET PIPE FIRE PROTECTION. AREA PLANNED TO BE LIGHT HAZARD. CONTRACTOR TO CONFIRM WITH LOCAL AHJ FOR FINAL HAZARD DESIGNATION.
  - 3 INDICATED AREA OF EXISTING BUILDING WITH EXISTING FIRE PROTECTION SYSTEM. CONTRACTOR TO EVALUATE EXISTING HEAD LOCATIONS, AND MODIFY AS NECESSARY TO ACCOMMODATE NEW FLOOR PLAN. SEE SHEET FP-1 - SECTION 1 FOR CONTINUATION.
  - 4 FIRE PROTECTION PIPING ROUTED IN CEILING SPACE. REFER TO DESIGN-BUILD CONTRACTOR DRAWINGS FOR CONTINUATION.





\\vgm-fserver\users\sls\sls\Documents\20-107 IHS Mescalero\_MEP\_v20\_islaing\MLF.rvt



1 PLUMBING DEMO PLAN  
1/4" = 1'-0"

GENERAL NOTES:

- A. CONTRACTOR SHALL VERIFY LOCATION OF ALL PIPING, EQUIPMENT, ETC. SERVED BY EXISTING EQUIPMENT TO BE REMOVED. CONTRACTOR SHALL REMOVE SUCH ITEMS ONLY IF THEY DO NOT SERVE FIXTURES TO REMAIN. ALL PIPING SHALL BE CAPPED IN A CONCEALED LOCATION AND TO THE NEAREST SHUT-OFF VALVE.
- B. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING SURFACES (WALLS, FLOORS, CEILINGS) DAMAGED DURING REMOVAL OF EQUIPMENT AND PIPING UNLESS REMOVAL OR RENOVATION OF SURFACE IS COVERED UNDER ANOTHER SECTION OF THIS CONTRACT.
- C. CONTRACTOR SHALL RETURN ALL MECHANICAL UNITS, PIPING, ETC. TO OWNER IN ACCORDANCE WITH DIRECTION OF TENANT IMPROVEMENTS AND THE ARCHITECT. IF OWNER DOES NOT WANT THESE ITEMS, THEN CONTRACTOR SHALL DISPOSE OF ITEMS PROPERLY.
- D. PIPE ROUTING IS APPROXIMATE ONLY. EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING BUILDING CONDITIONS BEFORE SUBMITTING HIS BID. NO ALLOWANCE SHALL BE MADE AFTER CONTRACT IS AWARDED TO ALLOW FOR LACK OF PRE-BID INSPECTION OF BUILDING BY SUCCESSFUL BIDDER.
- E. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS AND "DOWN TIME".
- F. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED, VERIFY INTENT WITH THE ARCHITECT BEFORE PROCEEDING.
- G. MAINTAIN ALL MECHANICAL, ELECTRICAL, PLUMBING AND COMMUNICATION SERVICES TO OWNER'S OPERATIONAL AREAS WHILE PERFORMING WORK. PROVIDE ALL BYPASS, CROSS CONNECTS AND/OR TEMPORARY ROUTINGS AND CONNECTIONS AS REQUIRED TO INSURE FULL OPERATION OF ALL SERVICES TO ALL AREAS NOT UNDER CONSTRUCTION - AT NO ADDITIONAL COST.

KEYED NOTES

- 1 REMOVE EXISTING PLUMBING FIXTURES AND ASSOCIATED APPURTENANCES AS INDICATED WITH HATCHING. REMOVE CW, HW AND VENT PIPING AND CAP ABOVE CEILING. REMOVE WASTE PIPING BACK FROM SOURCE BELOW FLOOR, PLUG AND CAP. REPAIR CONCRETE FLOOR TO MATCH EXISTING. FIELD VERIFY EXISTING CONDITIONS PRIOR TO START OF WORK. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 2 REMOVE EXISTING PLUMBING FIXTURE(S), ASSOCIATED APPURTENANCES AND/OR PIPING AS INDICATED WITH HATCHING. RE-USE AS MUCH OF THE EXISTING PIPING IN NEW WORK AS POSSIBLE.
- 3 DISCONNECT PIPING AND REMOVE EXISTING PLUMBING FIXTURE. PIPING TO BE MODIFIED AND RE-USED IN NEW WORK. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 4 REMOVE EXISTING WALL CLEANOUT AND WASTE PIPING DOWN TO BELOW FLOOR, PLUG AND CAP. REPAIR CONCRETE FLOOR TO MATCH EXISTING. REFER TO NEW WORK PLANS FOR ADDITIONAL INFORMATION.
- 5 EXISTING PIPING TO REMAIN. FIELD VERIFY EXISTING PIPES TO AVOID DAMAGE PRIOR TO START OF WORK.
- 6 REFER TO NEW WORK FOR CONTINUATION.
- 7 EXISTING MED GAS LOCATED IN CEILING PLENUM. FIELD VERIFY IF PIPING SERVES SECOND FLOOR. SUBCONTRACTOR TO DEMO MED GAS PIPING BACK AND CAP IF NOT IN USE. COORDINATE WITH BIO-MED.



DRWN BY MUUS	PROJECT NUMBER 117043
CHKD BY BEST	SHEET of
SCALE 1/4" = 1'-0"	
DATE 07/20/2018	
DP-1	
Mescalero Service Unit 318 Abalone Loop Mescalero, NM 88603 Otero County RENOVATION & ADDITION DEMO PLUMBING PLAN	
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	
INDIAN HEALTH SERVICE SHEETS 1951	
CONSULTANT ROCK GAP ARCHITECTS P.C. 2000 10TH AVENUE N.E. ALBUQUERQUE, NM 87102	
STAMP KYLE BEST Professional Engineer 2655 7/20/2018	
APPROVED ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	
MARK DATE 07/20/2018	
DESCRIPTION	

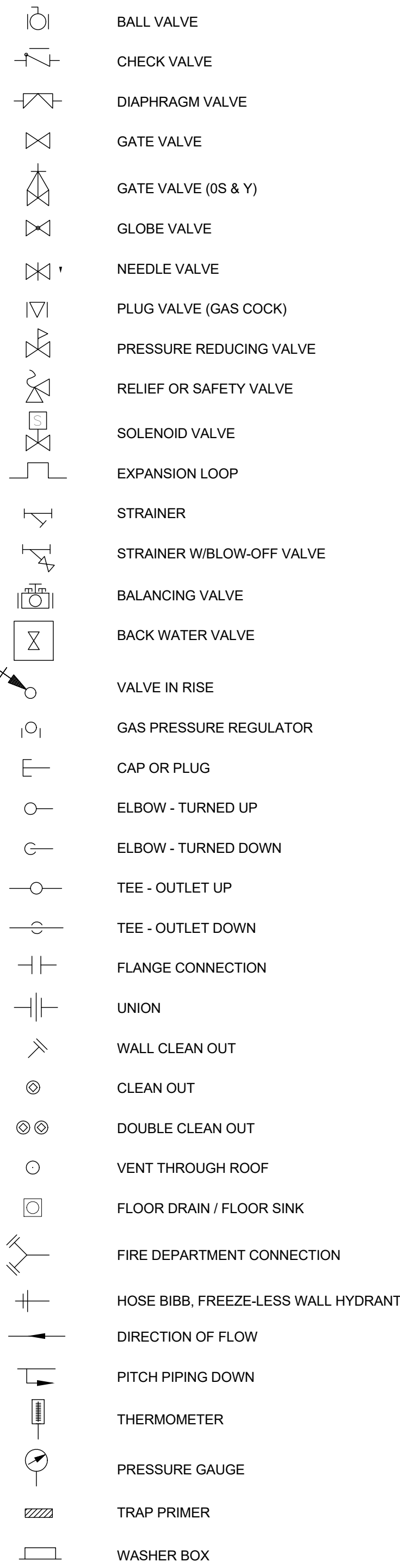


## GENERAL



_____	COLD WATER (CW)
_____	HOT WATER (HW)
_____	140° HOT WATER (140° HW)
_____	HOT WATER RECIRC (HWC)
_____ SS _____	SANITARY SEWER
_____ GW _____	GREASE WASTE
_____ V _____	VENT
_____ LPG _____	LIQUID PROPANE GAS
_____ D _____	CONDENSATE DRAIN
_____ FP _____	FIRE PROTECTION
_____	PIPE IN SLEEVE

## PIPING SYMBOLS



## ABBREVIATIONS

A		I	
AFF	ABOVE FINISHED FLOOR	IN	INCHES
AFG	ABOVE FINISHED GRADE	ID	INNER DIAMETER
A/C	AIR CONDITIONING	K	
AHU	AIR HANDLING UNIT	KW	KILOWATT
B		KWH	KILOWATT HOUR
BOP	BOTTOM OF PIPE	L	
BTUH	BTU PER HOUR	LP	LIQUID PROPANE
BP	BUILDING PRESSURE	M	
BV	BALANCING VALVE	MAX	MAXIMUM
BWW	BACKWATER VALVE	MIN	MINIMUM
C		N	
CO	CLEANOUT	NA	NOT APPLICABLE
COTG	CLEANOUT TO GRADE	NIC	NOT IN CONTRACT
CONT.	CONTINUATION	NO.	NUMBER (QUANTITY)
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	NPW	NON-POTABLE WATER
CW	COLD WATER	O	
CWS	COLD WATER SUPPLY	OC	ON CENTER
D		OD	OUTSIDE DIAMETER
D	DRAIN	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
DCO	DOUBLE CLEAN OUT	OFOI	OWNER FURNISHED, OWNER INSTALLED
DEMO	DEMOLITION	P	
DWH	DOMESTIC WATER HEATER	POC	POINT OF CONNECTION
E		PSI	POUNDS PER SQUARE INCH
EXH	EXHAUST	PRV	PRESSURE REDUCING VALVE
EXV	EXHAUST VENT	Q	
F		QTY	QUANTITY
FCO	FLOOR CLEANOUT	R	
FD	FLOOR DRAIN	RPBFP	REDUCE PRESSURE BACKFLOW PREVENTOR
FLEX	FLEXIBLE	RPM	REVOLUTIONS PER MINUTE
FLEX CONN	FLEXIBLE CONNECTOR	S	
FP	FEET PROTECTION	SS	SANITARY SEWER
FPM	FEET PER MINUTE	SST	STAINLESS STEEL
FS	FLOOR SINK	T	
FT	FEET	TBD	TO BE DETERMINED
G		TP	TRAP PRIMER
GALV	GALVANIZED	TYP	TYPICAL
GF/CI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED	U	
GF/GI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED	UNO	UNLESS NOTED OTHERWISE
GI	GREASE INTERCEPTOR	V	
GPH	GALLONS PER HOUR	V	VENT, VOLTS
GPM	GALLONS PER MINUTE	VAC	VACUUM
H		VTR	VENT THRU ROOF
HB	HOSE BIBB	W	
HD	HEAD	WCO	WALL CLEANOUT
HP	HORSEPOWER	WF	WALL FAUCET
HT	HEIGHT		
HW	HOT WATER		
140° HW	140° HOT WATER		
HWC	HOT WATER RECIRC.		
HYD	HYDRANT		
HZ	HERTZ		

A. CONTRACTOR SHALL VERIFY LOCATION OF ALL PIPING, EQUIPMENT, ETC. SERVED BY EXISTING EQUIPMENT TO BE REMOVED, AND SHALL REMOVE SUCH ITEMS ONLY IF THEY DO NOT SERVE FIXTURES TO REMAIN. ALL PIPING SHALL BE CAPPED IN A CONCEALED LOCATION AND TO THE NEAREST SHUT-OFF VALVE.

B. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND FINISHING SURFACES (WALLS, FLOORS, CEILING) DAMAGED DURING REMOVAL OF EXISTING PIPING AND EQUIPMENT. CONTRACTOR'S PROTECTION OF SURFACE IS COVERED UNDER ANOTHER SECTION OF THIS CONTRACT.

C. CONTRACTOR SHALL RETURN ALL PLUMBING FIXTURE UNITS, PIPING, ETC. TO OWNER IN ACCORDANCE WITH DIRECTION OF THE ARCHITECT. IF OWNER DOES NOT WANT THESE ITEMS, THEN CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL.

D. PIPE ROUTING IS APPROXIMATE ONLY. EACH BIDDER SHALL SATISFY HIMSELF AS TO EXISTING BUILDING CONDITIONS BEFORE SUBMITTING HIS BID. NO ALLOWANCE SHALL BE MADE AFTER CONTRACT IS AWARDED TO ALLOW FOR LACK OF PRE-BID INSPECTION OF BUILDING BY ANY OF THE BIDDERS.

E. COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS AND "DOWN TIME".

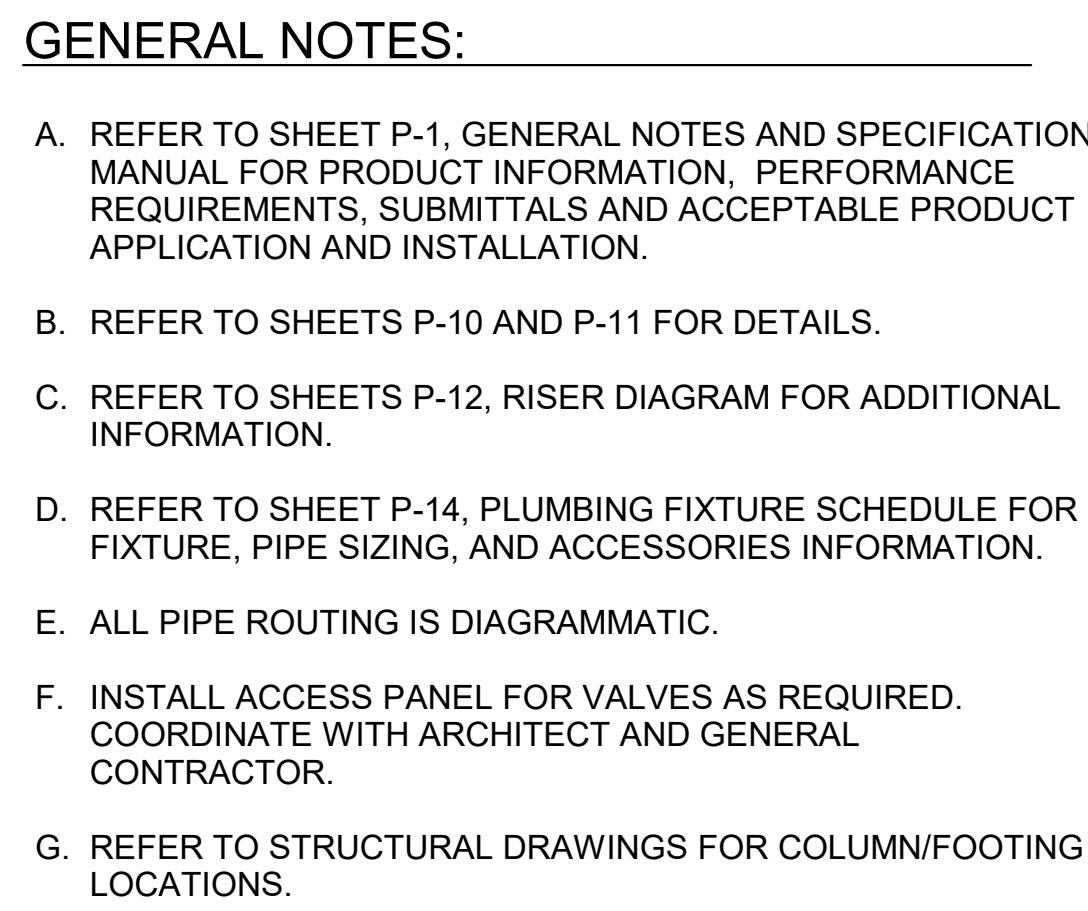
F. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO COMMENCEMENT OF WORK. SHOULD ANY DISCREPANCIES BE DISCOVERED, VERIFY INTENT WITH THE ARCHITECT BEFORE PROCEEDING.

G. MAINTAIN ALL MECHANICAL, ELECTRICAL, PLUMBING AND "COMMON" SERVICE LINES TO OWNERS' OPERATIONAL AREAS WHILE PERFORMING WORK. PROVIDE ALL BYPASS, CROSS CONNECTIONS AND TEMPORARY ROUTINGS AND CONNECTIONS AS REQUIRED TO MAINTAIN OPERATIONAL INTEGRITY OF ALL AREAS NOT UNDER CONSTRUCTION - AT NO ADDITIONAL COST.

- A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE SHALL BE INSTALLED IN A NEAT AND PROFESSIONAL MANNER.
- B. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN OTHERWISE. AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.
- C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNITS ADJACENT. ACCESS PANELS AND DOORS SHALL BE PROVIDED FOR GENERAL ACCESS TO PIPING FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.
- D. ALL PIPING SHALL PITCH TO DRAIN AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL PIPING PIPES AND ALL DRAINAGE POINTS.
- E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK ABOVE ELECTRICAL EQUIPMENT. PROVIDE HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING WITH OTHER DISCIPLINES. RELOCATION OF PIPING DUE TO CONFLICTS SHALL BE AT THE EXPENSE OF THIS CONTRACTOR.
- F. SECURE ALL PIPING TO WALLS TO A RIGID INSTALLATION WITH UNIDRIFT BRACKETS AND RUBBER NEOPRENE GASKETED PIPE CLAMPS.
- G. REFER TO WASTE AND WASTE RISER DIAGRAMS FOR MORE INFORMATION.
- H. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS OF ANY WALL MOUNTED PLUMBING FIXTURES.
- I. COORDINATE ROUTING OF WASTE PIPING BELOW SLAB WITHIN BUILDING WITH STRUCTURAL FOOTINGS.
- J. ALL SEWER PIPING AND SEWER VENT PIPING SHALL BE CAST IRON. MECHANICAL SYSTEM IS USING GELING PLENUM RETURN BACK TO UNITS WHICH WILL NOT ALLOW FOR INSTALLATION OF PVC PIPING ABOVE CEILING. REFER TO SPECIFICATIONS.
- K. DOMESTIC WATER PIPING SHALL BE ROUTED THROUGHOUT BUILDING ABOVE CEILING AND DOWN IN WALLS SERVING FIXTURES WITH THE EXCEPTION OF COPPER WATER SUPPLY PIPING. PROVIDE MANUFACTURER'S SUPPORT BENDS FOR ANY ELBOWS AND FITTINGS AS REQUIRED.
- L. DOMESTIC WATER PIPING SHALL BE LABELED PER SPECS.

10/14/2021 1:25:01 PM





- 1 EXISTING PIPING TO REMAIN UNLESS NOTED OTHERWISE. AVOID DAMAGING THESE LINES WHEN INSTALLING / ROUTING NEW PIPES. COORDINATE WORK WITH OTHER TRADES.
- 2 CONNECT NEW WATER SUPPLY LINE FROM EXISTING SUPPLY LINE TO NEW PLUMBING.
- 3 PROVIDE ISOLATION VALVES ON ALL NEW PIPES, TYPICAL.
- 4 EXISTING PIPES UP TO SECOND FLOOR TO REMAIN.
- 5 ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO THERMOSTATIC MIXING VALVE. EXTEND TEMPERED WATER LINE TO DECK OR WALL MOUNTED EYE WASH. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 6 INSTALL EXISTING/RELOCATED PHARMACY DI UNIT UNDER CABINET. ROUTE CW TO DI UNIT. PROVIDE DRAIN, SHUT-OFF VALVE AND SUPPORT BRACKETS.
- 7 EXISTING PIPING DOWN FROM FIXTURES ON SECOND FLOOR. ADJUST DROP AND OFFSET AS NECESSARY TO AVOID NEW STRUCTURE(S).
- 8 ROUTE REFRIGERANT LIQUID AND SUCTIONS LINES TO CRAC UNITS. PROVIDE TRAPS AT BASE OF RISER FROM CEILING SPACE ON EACH PIPE. REFER TO MANUFACTURER FOR CONNECTION DETAILS. SHOWN AS SINGLE LINE FOR CLARITY.
- 9 REFRIGERANT LIQUID AND SUCTION LINES TO CRAC UNITS. FIELD INSTALLED AND INSULATED PIPING INCLUDES TWO PIPES. SHOWN AS SINGLE LINE FOR CLARITY. HOT GAS PIPE 7/8" HORIZONTAL, 3/4" FOR VERTICAL RUNS, LIQUID PIPING 5/8".
- 10 CONDENSATE PIPING FROM PUMP IN A/C UNIT. REFER TO MANUFACTURER'S INSTRUCTIONS FOR CONNECTION LOCATION. FIELD COORDINATE CONDENSATE PIPING TO AVOID EQUIPMENT. PROVIDE DRIP-PAN AS NEEDED TO PROTECT IT EQUIPMENT.
- 11 ROUTE CONDENSATE PIPING TO MOP SINK IN HOUSEKEEPING CLOSET. TERMINATE WITH DOWN-TURNED ELBOW IN SINK PER CODE.
- 12 DISCONNECT WATER SUPPLY LINES FROM EXISTING UTILITY SINK AND CAP. PROVIDE NEW CONNECTION AND EXTEND CW & HW PIPING TO NEW JANITOR'S SINK. PROVIDE NEW SHUT-OFF VALVES. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- 13 SUPPLY PIPING TO EQUIPMENT REMOVED IN THIS ROOM SHALL BE DEMO'D BACK TO SOURCE PIPING AND CAPPED.
- 14 ROUTE CW AND HW SUPPLY LINES DOWN IN WALL. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING AND ADDITIONAL INFORMATION.
- 15 ROUTE STORM PIPING DOWN IN CHASE. TURN PIPES OUT TO EXTERIOR. PROVIDE LAMB TONGUE ON OUTLET. MOUNT OUTLET AT 18" A.F.G.
- 16 INSTALL ACCESS PANEL FOR VALVES AS REQUIRED. COORDINATE WITH ARCHITECT AND REFLECTED CEILING PLAN.
- 17 INSTALL BALL VALVE ABOVE CEILING ON HWC LINE. SET VALVE FOR 0.5 GPM (ADJ.).
- 18 REFRIGERANT LIQUID AND SUCTION LINES TO SPLIT-SYSTEM UNITS. FACTORY LINE SETS TWO PIPES. SHOWN AS SINGLE LINE FOR CLARITY.
- 19 ROUTE REFRIGERANT PIPING TO INDOOR UNIT ON WALL. REFER TO MANUFACTURER'S INSTALLATION FOR CONNECTION.

$$1/4'' = 1'-0''$$




\\gpm-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt

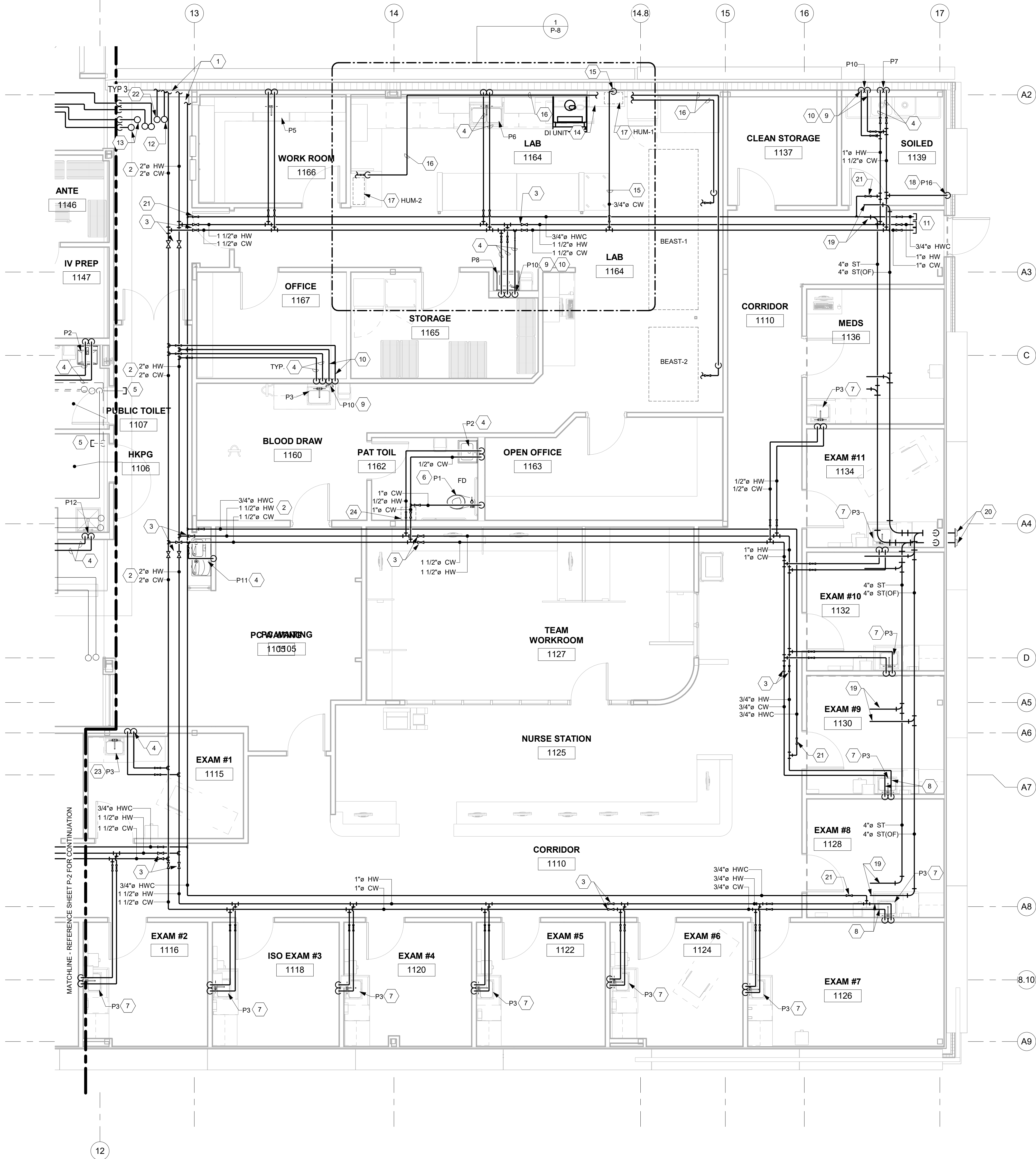
E

C

C

B

A



1

## PLUMBING WATER PLAN - SECTION 2

1/4" = 1'-0"

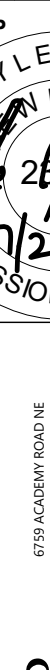

### GENERAL NOTES:

- REFER TO SHEET P-1, GENERAL NOTES AND SPECIFICATION MANUAL FOR PRODUCT INFORMATION, PERFORMANCE REQUIREMENTS, SUBMITTALS AND ACCEPTABLE PRODUCT APPLICATION AND INSTALLATION.
- REFER TO SHEETS P-10 AND P-11 FOR DETAILS.
- REFER TO SHEETS P-12, RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- REFER TO SHEET P-14, PLUMBING FIXTURE SCHEDULE FOR FIXTURE, PIPE SIZING, AND ACCESSORIES INFORMATION.
- ALL PIPE ROUTING IS DIAGRAMMATIC.
- INSTALL ACCESS PANEL FOR VALVES AS REQUIRED. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR.
- REFER TO STRUCTURAL DRAWINGS FOR COLUMN/FOOTING LOCATIONS.

### KEYED NOTES

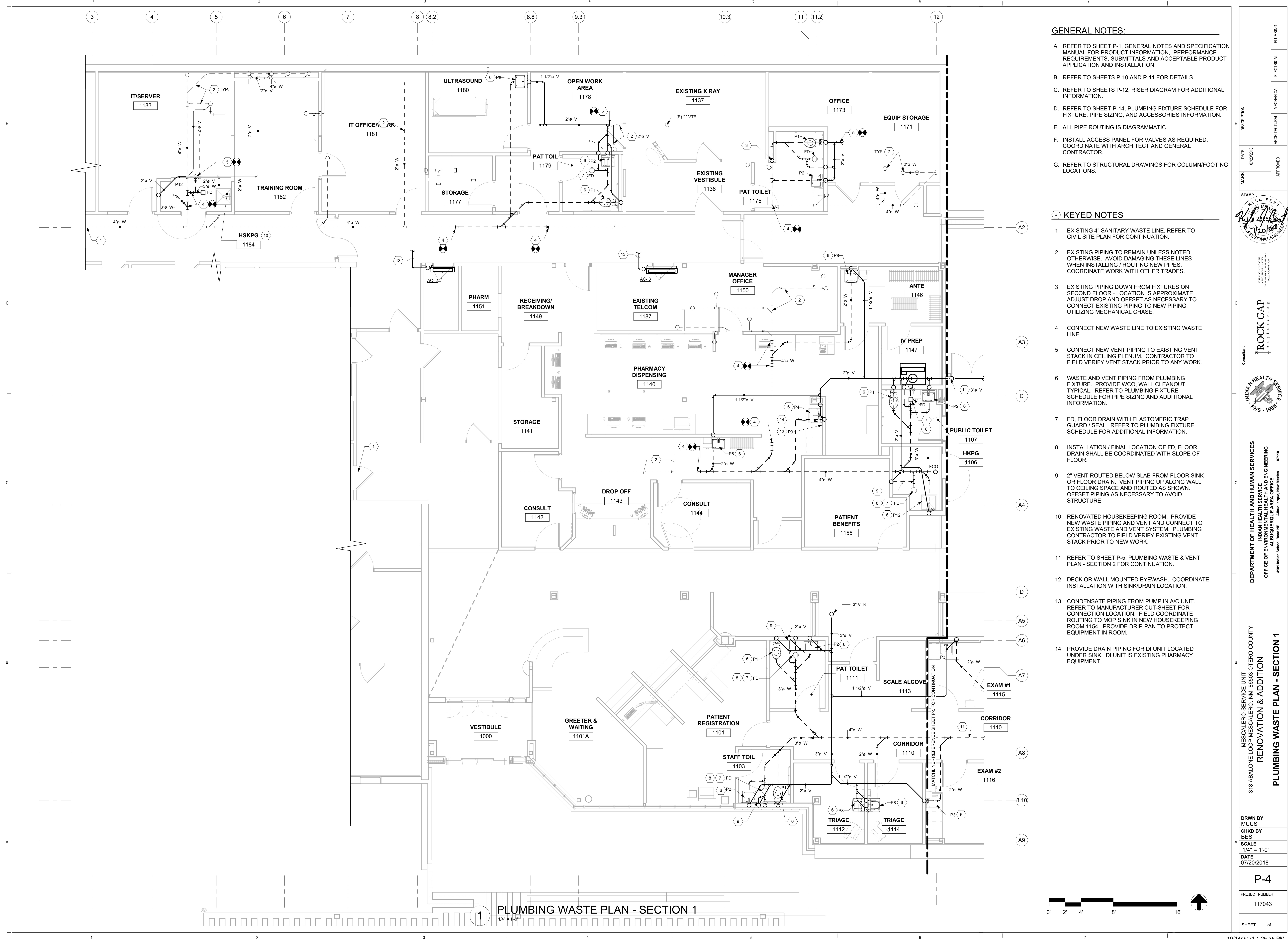
- WATER SUPPLY PIPING FROM MECHANICAL ROOM. REFER TO ENLARGED PLAN, SHEET P-8 FOR CONTINUATION.
- WATER SUPPLY LINES ROUTED IN CEILING PLENUM. COORDINATE WITH OTHER TRADES TO AVOID CONFLICT. PROVIDE INSULATION, LABELING AND DIRECTIONAL FLOW PER SPECIFICATION.
- PROVIDE ISOLATION VALVES, TYPICAL.
- ROUTE CW AND HW DOWN IN WALL TO FIXTURES. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING AND ADDITIONAL INFORMATION.
- EXISTING SUPPLY PIPE TO BE DEMO'D BACK TO SOURCE AND CAPPED.
- ROUTE 1" CW DOWN IN WALL TO WATER CLOSET, TYPICAL. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- ROUTE CW AND HW DOWN IN WALL TO EXAM ROOM SINK. PROVIDE TRUEBRO PIPE COVERS, TYPICAL. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING AND ADDITIONAL INFORMATION.
- REDUCE CW AND HW SUPPLY LINE. PROVIDE TRANSITION FITTINGS BEFORE DROP.
- DECK OR WALL MOUNTED EYE WASH. COORDINATE INSTALLATION WITH SINK/DRAIN LOCATION.
- ROUTE 1/2" CW AND 1/2" HW DOWN IN WALL TO THERMOSTATIC MIXING VALVE. EXTEND TEMPERED WATER LINE TO DECK OR WALL MOUNTED EYE WASH. INSTALL PER MANUFACTURER'S REQUIREMENTS. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- EXTEND WATER SUPPLY PIPING, CAP AND PROVIDE SHUT-OFF VALVES FOR FUTURE.
- ROUTE PROPANE GAS UP TO ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
- REFRIGERANT SUCTION AND LIQUID LINES DOWN FROM ROOF TO CRAC UNITS. FIELD INSTALLED AND INSULATED PIPING INCLUDES TWO PIPES EACH. SHOWN AS SINGLE LINE FOR CLARITY. HOT GAS PIPE 7/8" HORIZONTAL, 3/4" FOR VERTICAL RUNS. LIQUID PIPING 5/8". INSTALL PIPING TRAP AT BASE OF RISER TO ROOF ON EACH PIPE.
- NEW DI WATER UNIT, OWNER FURNISHED, CONTRACTOR INSTALLED.
- ROUTE CW SUPPLY. THEN DROP DOWN ALONG WALL TO DI UNIT. PROVIDE SHUT-OFF VALVE AND QUICK DISCONNECT. VERIFY / COORDINATE FITTINGS AND TERMINATION WITH MANUFACTURER
- DI WATER SUPPLY LINES FROM DI UNIT TO HUM-1, HUM-2, AND LAB EQUIPMENT - BEAST 1 AND BEAST 2. COORDINATE PIPE ROUTING WITH OWNER FOR ACCESSIBILITY AND MAINTENANCE. PROVIDE SHUT-OFF VALVE AND QUICK DISCONNECT.
- HUMIDIFIER LOCATED ON SHELF, ABOVE DI UNIT. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION REQUIREMENTS WITH VENDOR REPRESENTATIVE.
- EXTEND CW SUPPLY LINE DOWN IN WALL TO HOSE BIBB. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
- STORM PIPING UP TO ROOF DRAIN. REFER TO PLUMBING ROOF PLAN FOR CONTINUATION.
- ROUTE STORM PIPING DOWN IN CHASE. TURN PIPES OUT TO EXTERIOR. PROVIDE LAMB TONGUE ON OUTLET. MOUNT OUTLET AT 18" A.F.G.
- INSTALL BALL VALVE ABOVE CEILING ON HWC LINE. SET VALVE FOR 0.5 GPM (ADJ.).
- REFRIGERANT SUCTION AND LIQUID LINES DOWN FROM ROOF TO SPLIT SYSTEM COOLERS. FACTORY INSULATED LINE-SET. SHOWN AS SINGLE LINE FOR CLARITY. REFER TO MANUFACTURER INSTALLATION FOR SIZE AND ROUTING.
- PLUMBING CONNECTION FOR THIS FIXTURE NEED TO BE OFFSET TO AVOID STRUCTURAL POSTS AND FOOTING.
- INSTALL 18" x 18" ACCESS PANEL FOR VALVES AS REQUIRED. COORDINATE WITH ARCHITECT AND REFLECTED CEILING PLAN.



SHEET	of	PROJECT NUMBER	P-3	DATE 07/20/2018	SCALE 1/4" = 1'-0"	CHKD BY Swiderski	DRWN BY Martin	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86603 OTERO COUNTY RENOVATION & ADDITION PLUMBING WATER PLAN - SECTION 2	C	INDIAN HEALTH SERVICE P.H.S. • 1955  DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 405 Indian School Road NE Albuquerque, New Mexico 87110	CONSULTANT ROCK GAP CORPORATION 2655 1/2 STREET ALBUQUERQUE, NEW MEXICO 87102 WWW.ROCKGAP.COM	C		STAMP	MARK	DATE 07/20/2018	DESCRIPTION	m



\\gvm-fserver\users\slsah\G\Documents\20-107 IHS Mesalero MEP\_v20\_islahg\MLF.rvt



- GENERAL NOTES:**
- REFER TO SHEET P-1, GENERAL NOTES AND SPECIFICATION MANUAL FOR PRODUCT INFORMATION, PERFORMANCE REQUIREMENTS, SUBMITTALS AND ACCEPTABLE PRODUCT APPLICATION AND INSTALLATION.
  - REFER TO SHEETS P-10 AND P-11 FOR DETAILS.
  - REFER TO SHEETS P-12, RISER DIAGRAM FOR ADDITIONAL INFORMATION.
  - REFER TO SHEET P-14, PLUMBING FIXTURE SCHEDULE FOR FIXTURE, PIPE SIZING, AND ACCESSORIES INFORMATION.
  - ALL PIPE ROUTING IS DIAGRAMMATIC.
  - INSTALL ACCESS PANEL FOR VALVES AS REQUIRED. COORDINATE WITH ARCHITECT AND GENERAL CONTRACTOR.
  - REFER TO STRUCTURAL DRAWINGS FOR COLUMN/FOOTING LOCATIONS.

- # KEYED NOTES**
- EXISTING 4" SANITARY WASTE LINE. REFER TO CIVIL SITE PLAN FOR CONTINUATION.
  - EXISTING PIPING TO REMAIN UNLESS NOTED OTHERWISE. AVOID DAMAGING THESE LINES WHEN INSTALLING / ROUTING NEW PIPES. COORDINATE WORK WITH OTHER TRADES.
  - EXISTING PIPING DOWN FROM FIXTURES ON SECOND FLOOR - LOCATION IS APPROXIMATE. ADJUST DROP AND OFFSET AS NECESSARY TO CONNECT EXISTING PIPING TO NEW PIPING, UTILIZING MECHANICAL CHASE.
  - CONNECT NEW WASTE LINE TO EXISTING WASTE LINE.
  - CONNECT NEW VENT PIPING TO EXISTING VENT STACK IN CEILING PLENUM. CONTRACTOR TO FIELD VERIFY VENT STACK PRIOR TO ANY WORK.
  - WASTE AND VENT PIPING FROM PLUMBING FIXTURE. PROVIDE WCO, WALL CLEANOUT TYPICAL. REFER TO PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING AND ADDITIONAL INFORMATION.
  - FD, FLOOR DRAIN WITH ELASTOMERIC TRAP GUARD / SEAL. REFER TO PLUMBING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.
  - INSTALLATION / FINAL LOCATION OF FD, FLOOR DRAIN SHALL BE COORDINATED WITH SLOPE OF FLOOR.
  - 2" VENT ROUTED BELOW SLAB FROM FLOOR SINK OR FLOOR DRAIN. VENT PIPING UP ALONG WALL TO CEILING SPACE AND ROUTED AS SHOWN. OFFSET PIPING AS NECESSARY TO AVOID STRUCTURE
  - RENOVATED HOUSEKEEPING ROOM. PROVIDE NEW WASTE PIPING AND VENT AND CONNECT TO EXISTING WASTE AND VENT SYSTEM. PLUMBING CONTRACTOR TO FIELD VERIFY EXISTING VENT STACK PRIOR TO NEW WORK.
  - REFER TO SHEET P-5, PLUMBING WASTE & VENT PLAN - SECTION 2 FOR CONTINUATION.
  - DECK OR WALL MOUNTED EYEWASH. COORDINATE INSTALLATION WITH SINK/DRAIN LOCATION.
  - CONDENSATE PIPING FROM PUMP IN A/C UNIT. REFER TO MANUFACTURER CUT-SHEET FOR CONNECTION LOCATION. FIELD COORDINATE ROUTING TO MOP SINK IN NEW HOUSEKEEPING ROOM 1154. PROVIDE DRIP-PAN TO PROTECT EQUIPMENT IN ROOM.
  - PROVIDE DRAIN PIPING FOR DI UNIT LOCATED UNDER SINK. DI UNIT IS EXISTING PHARMACY EQUIPMENT.



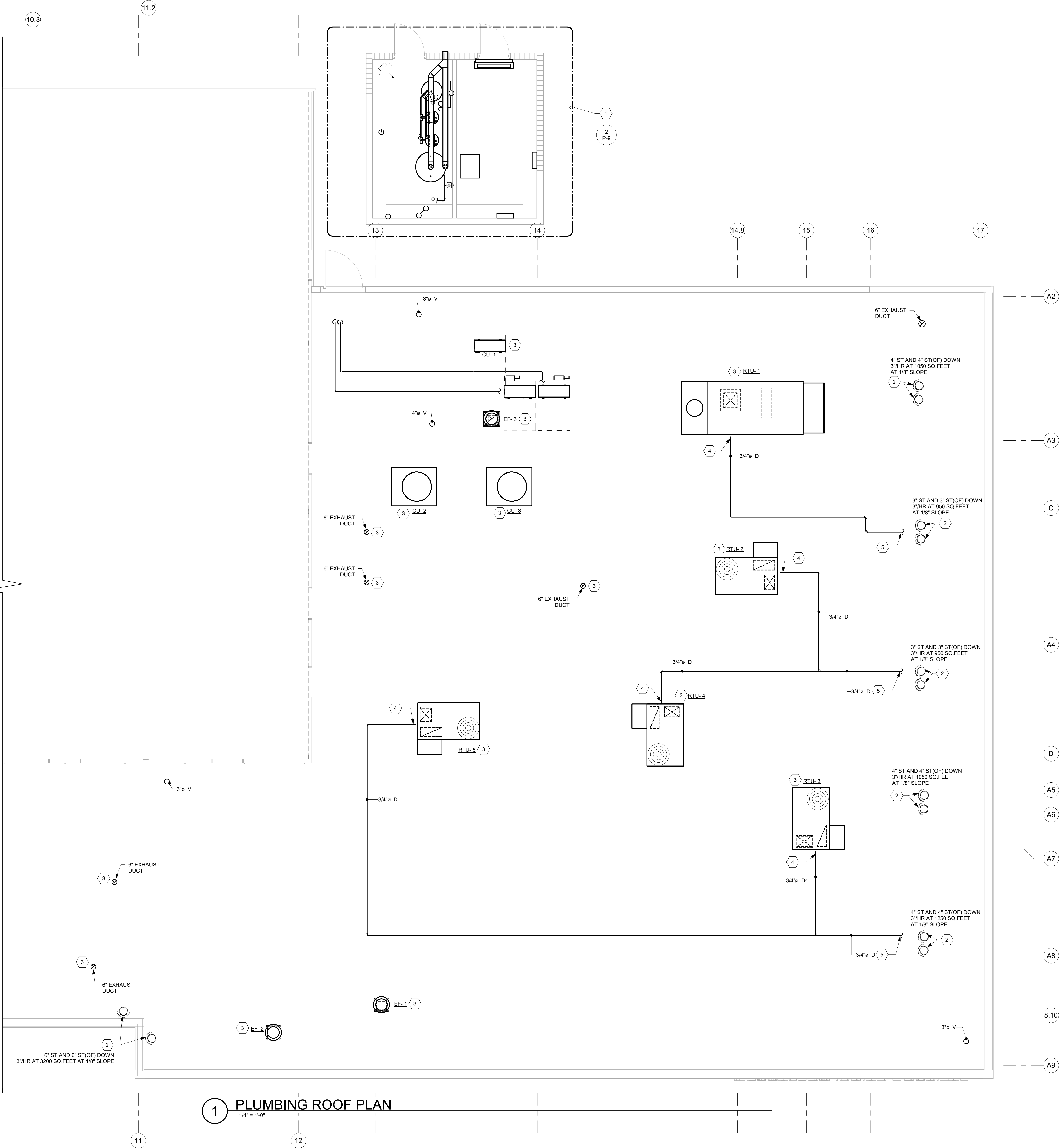
MARK	DATE	DESCRIPTION	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
	07/20/2018						
<b>STAMP</b> KYLE BEST 2018 PROFESSIONAL ENGINEER							
<b>CONSULTANT</b> ROCK GAP 2018 PROFESSIONAL ENGINEER							
<b>INDIAN HEALTH SERVICE</b> 415 Indian School Road NE Albuquerque, New Mexico 87110							
<b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 415 Indian School Road NE Albuquerque, New Mexico 87110							
<b>MESCALERO SERVICE UNIT</b> 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY <b>RENOVATION &amp; ADDITION</b> <b>PLUMBING WASTE PLAN - SECTION 1</b>							
DRWN BY MUJUS							
CHKD BY BEST							
SCALE 1/4" = 1'-0"							
DATE 07/20/2018							
P-4							
PROJECT NUMBER 117043							
SHEET of							







\\gym-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiag\MLF.rvt



- GENERAL NOTES:**
- A. REFER TO P-1, GENERAL NOTES FOR INFORMATION ON PIPE INSTALLATION, INSULATION, LABELING, AND DEMOLITION NOTES.
  - B. REFER TO P-10 AND P-11 FOR PLUMBING DETAILS
  - C. REFER TO P-12, RISER DIAGRAM FOR ADDITIONAL INFORMATION ON PIPE SIZING.
  - D. REFER TO P-14, PLUMBING FIXTURE SCHEDULE FOR FIXTURE, PIPE SIZING AND ACCESSORIES INFORMATION.
  - E. ALL PIPE ROUTING IS DIAGRAMMATIC.
  - F. MAINTAIN ALL REQUIRED CLEARANCES WITH OUTSIDE AIR INTAKES ON ROOF.

- # KEYED NOTES**
- 1 REFER TO SHEET P-9, DETAIL 2 ENLARGED PLUMBING PLAN.
  - 2 ROOF DRAIN WITH INTEGRAL PRIMARY AND OVERFLOW (OF). SIZE ROOF DRAIN PER NOTE ON PLAN.
  - 3 REFER TO MECHANICAL ROOF PLAN.
  - 4 ROUTE CONDENSATE PIPE FROM DISCHARGE ON UNIT. PROVIDE P-TRAP ON OUTLET PER MFG.
  - 5 ROUTE CONDENSATE PIPE DISCHARGE TO DRAIN.

MARK	DATE	DESCRIPTION
	07/20/2018	
APPROVED		
ARCHITECTURAL	MECHANICAL	ELECTRICAL
PLUMBING		

STAMP  
KYLE BEST  
2018  
PROFESSIONAL ENGINEER

CONSULTANT  
ROCK GAP  
ARCHITECTS  
P.C.  
1100 MAIN ST., SUITE 200  
ALBUQUERQUE, NM 87102

INDIAN HEALTH SERVICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

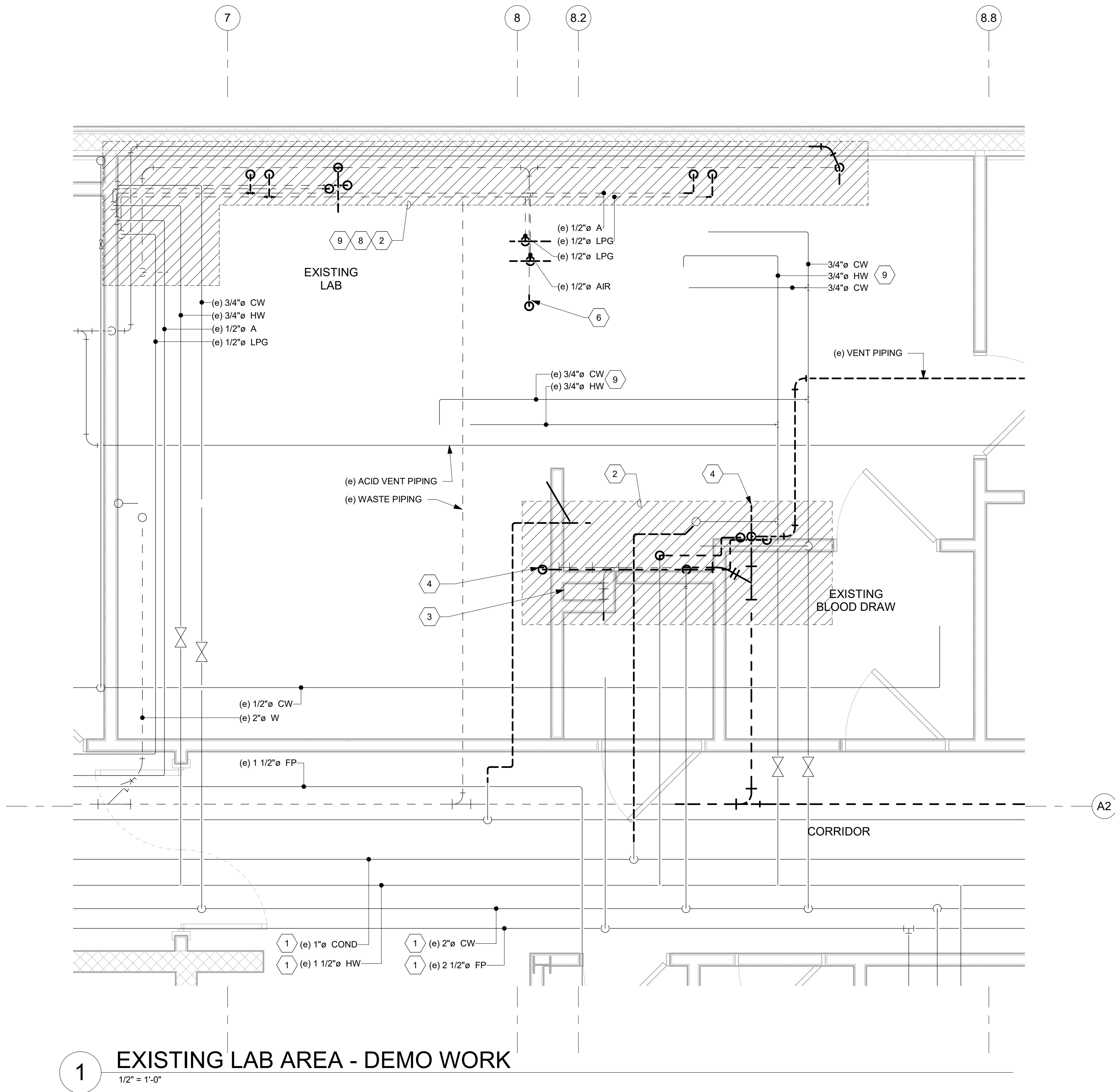
MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88503 OTERO COUNTY  
RENOVATION & ADDITION  
PLUMBING ROOF PLAN

DRWN BY  
MUJUS  
CHKD BY  
BEST  
SCALE  
1/4" = 1'-0"  
DATE  
07/20/2018

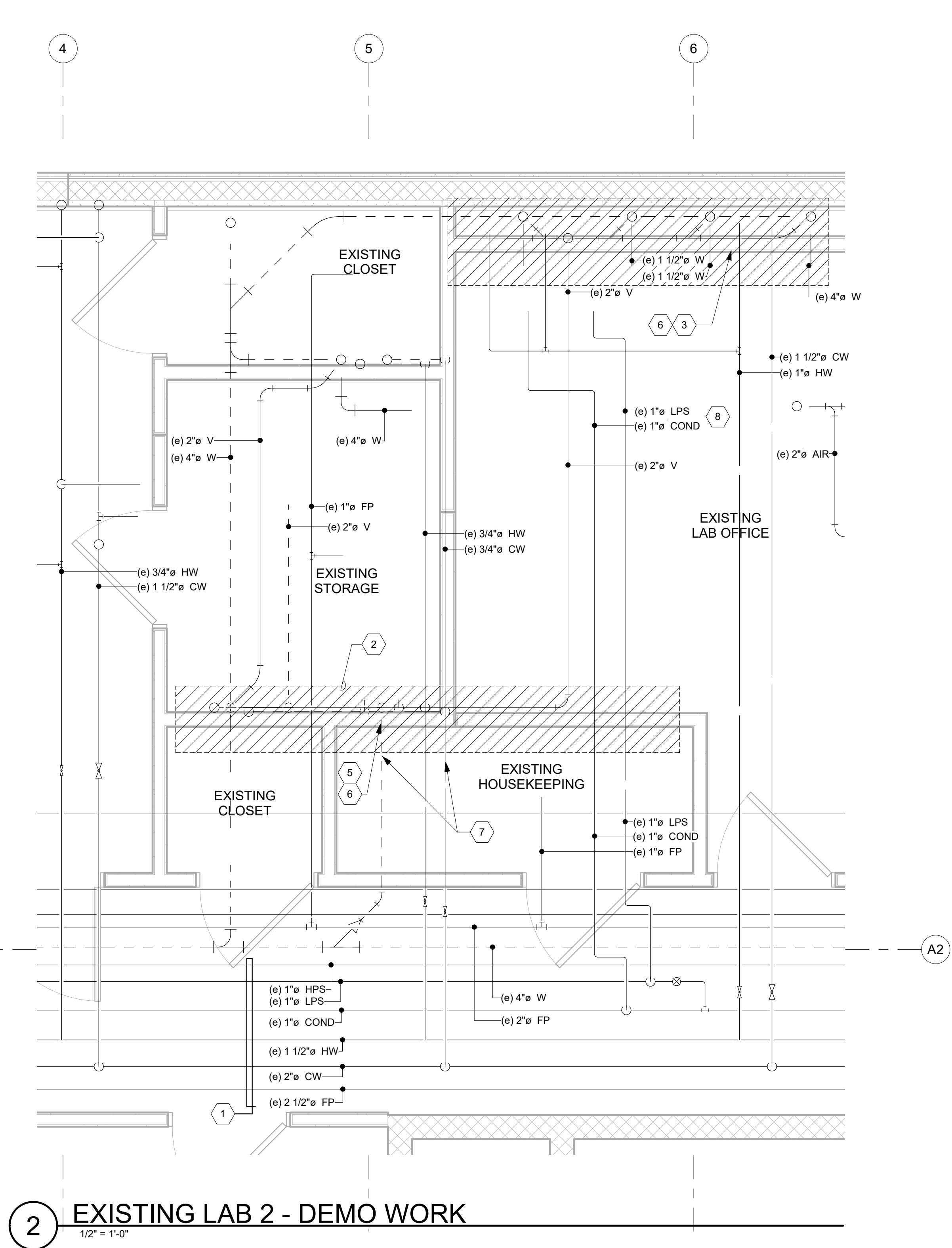
P-6  
PROJECT NUMBER  
117043  
SHEET of



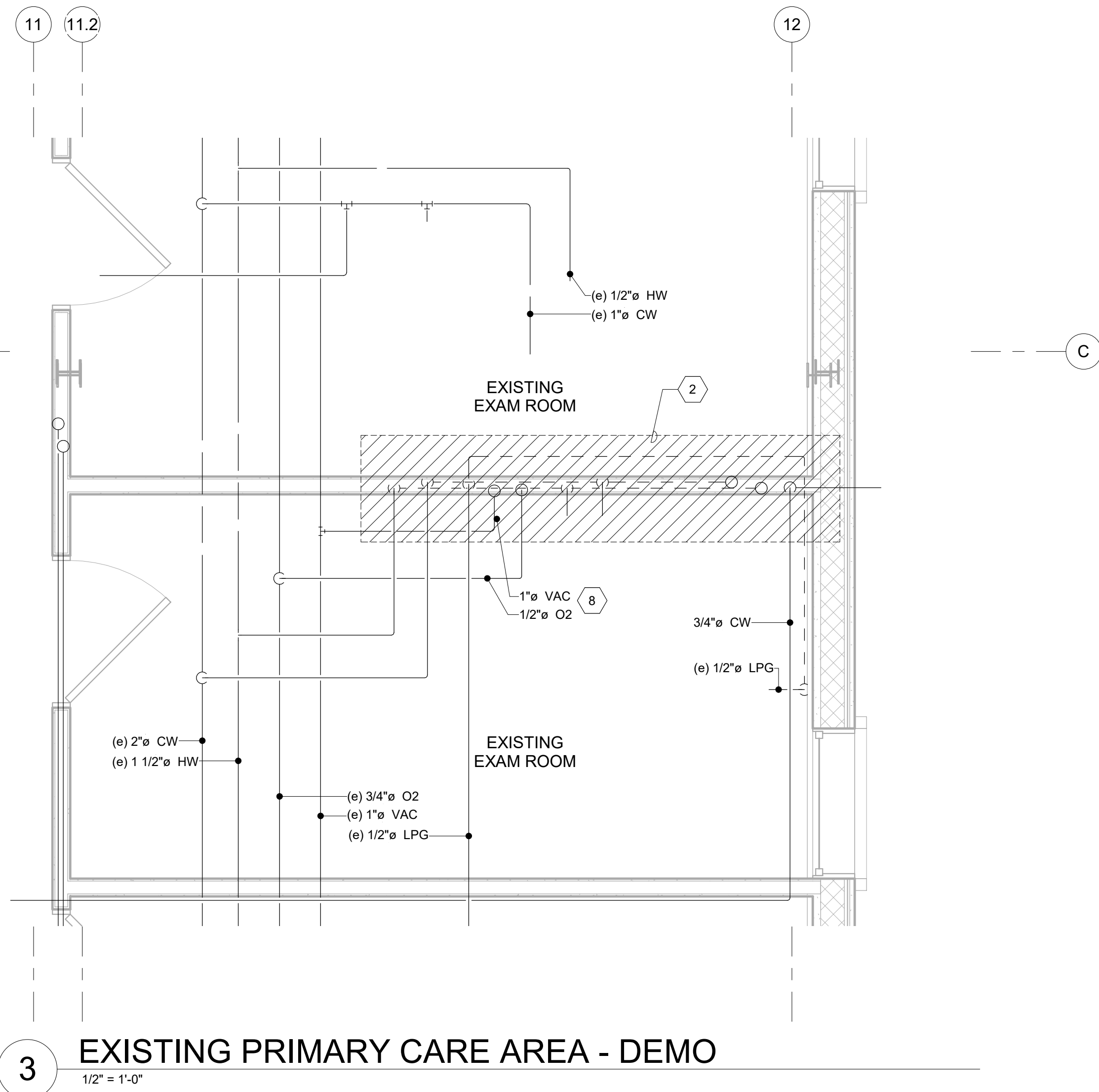
\\ngm-fserver\users\lisaiah\Documents\20-107 IHS Mescalero\_MEP\_v20\_isiaiah\MLF.rvt



1 EXISTING LAB AREA - DEMO WORK  
1/2" = 1'-0"



2 EXISTING LAB 2 - DEMO WORK  
1/2" = 1'-0"



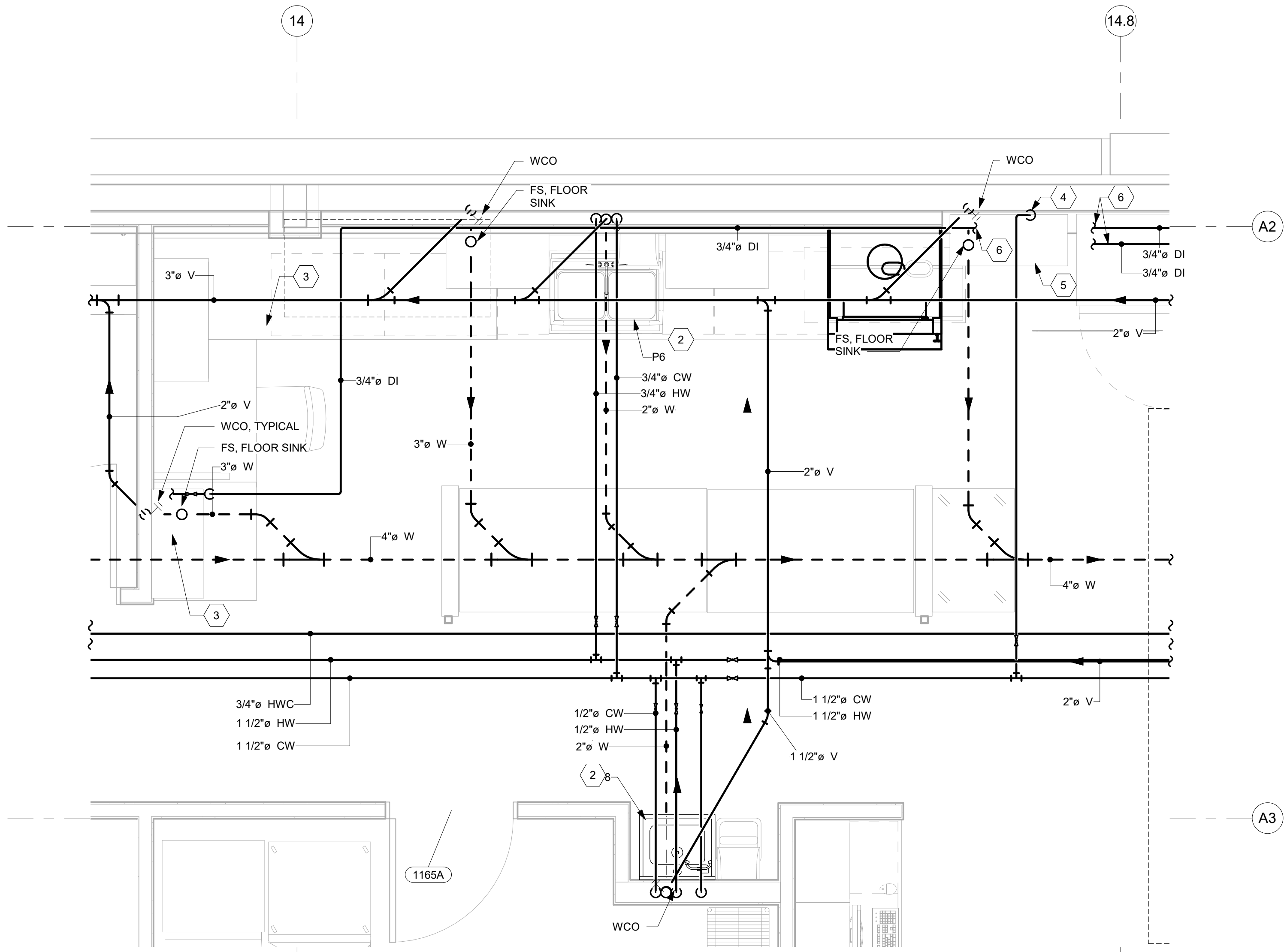
3 EXISTING PRIMARY CARE AREA - DEMO  
1/2" = 1'-0"

- # KEYED NOTES
- EXISTING PIPING IN CEILING PLENUM ABOVE CORRIDOR TO REMAIN, TYPICAL.
  - SUPPLY PIPING EXISTS ALONG THIS WALL. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITION PRIOR TO START OF ANY WORK.
  - EXISTING PIPE CHASE TO REMAIN.
  - FLOOR SINK, WATER SUPPLY AND SECTIONS OF WASTE PIPING TO BE DEMO'D BACK AND CAPPED. CONTRACTOR AND SUB TO FIELD VERIFY PRIOR TO DEMO. COORDINATE WITH NEW SCOPE OF WORK IN THIS AREA.
  - EXISTING VENT PIPING TO BE DEMO'D BACK. COORDINATE WITH NEW SCOPE OF WORK.
  - EXISTING WASTE PIPING TO BE DEMO'D BACK AND CAPPED. COORDINATE NEW WORK IN THIS AREA.
  - REMOVE AND DISCARD UTILITY SINK IN EXISTING HOUSEKEEPING. EXISTING WATER SUPPLY PIPING MAYBE REUSED IF PIPING AND SHUT-OFF VALVE(S) ARE IN GOOD CONDITION. EXISTING WASTE PIPING SHALL BE DEMO'D BACK AND CAPPED. REFER AND COORDINATE WITH NEW WORK.
  - EXISTING MED GAS PIPING IN CEILING PLENUM. IF MED GAS DOES NOT SUPPLY SECOND FLOOR EQUIPMENT, DEMO BACK AND CAP. COORDINATE THIS WORK WITH BIO-MED.
  - EXISTING SUPPLY PIPE TO BE DEMO'D BACK TO SOURCE AND CAPPED.

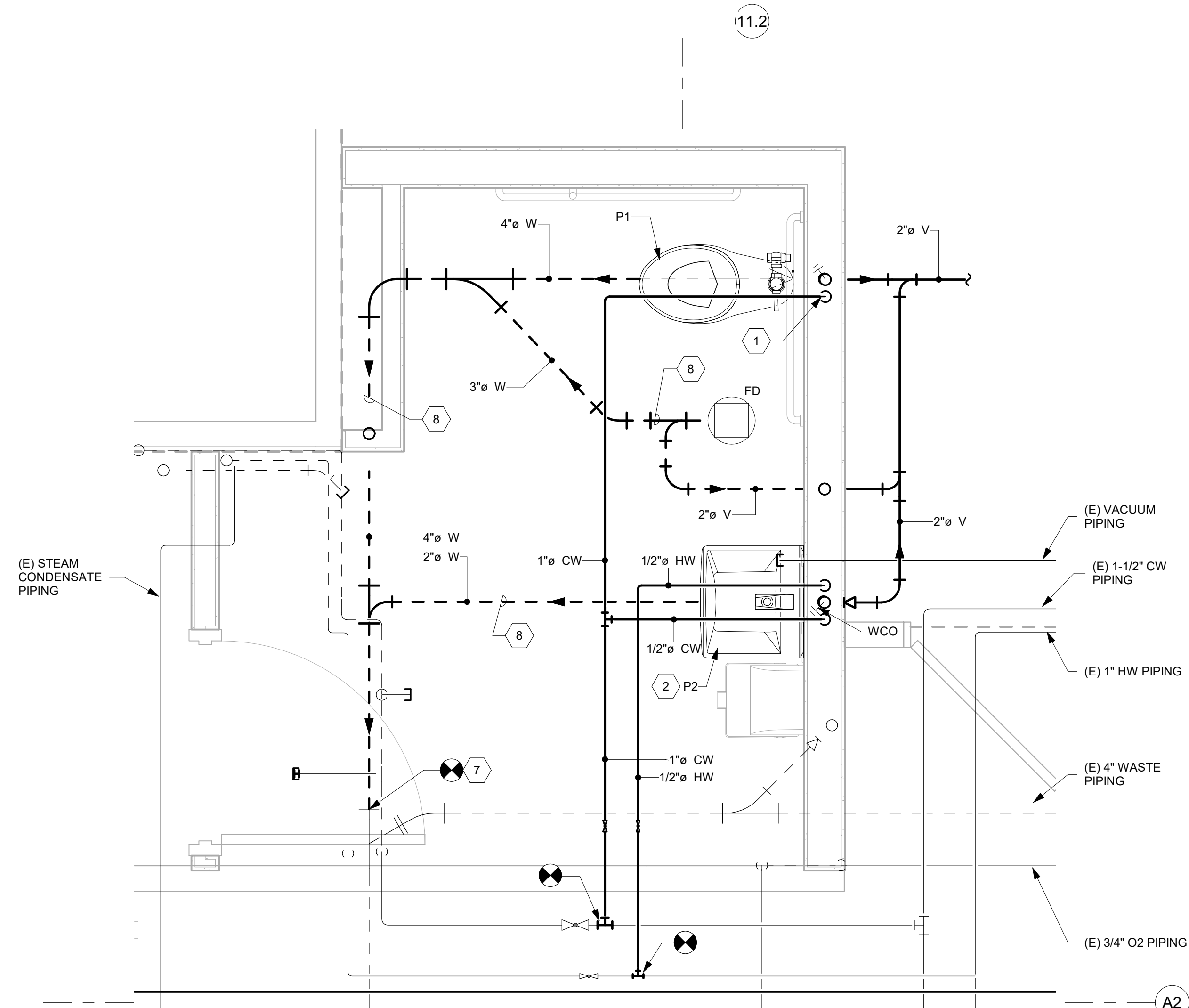
MARK	DATE	DESCRIPTION	PLUMBING
	07/20/2018		
STAMP			
KYLE BEST PROFESSIONAL ENGINEER STATE OF NEW MEXICO NO. 26553 EXPIRATION DATE 12/31/2024 112018			
CONSULTANT ROCK GAP ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING			
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110			
Mescalero Service Unit 318 Abalone Loop Mescalero, NM 88603 Otero County RENOVATION & ADDITION PLUMBING ENLARGED PLAN - DEMO WORK			
DRWN BY MUJUS CHKD BY BEST SCALE 1/2" = 1'-0" DATE 07/20/2018 P-7 PROJECT NUMBER 117043 SHEET of			



\\vgm-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



1 ENLARGED PLAN - NEW LAB DEPARTMENT  
1/2" = 1'-0"



3 X-RAY TOILET ROOM ENLARGED  
3/4" = 1'-0"

#### GENERAL NOTES:

- REFER TO SHEET P-1, GENERAL NOTES AND SPECIFICATION MANUAL FOR PRODUCT INFORMATION, PERFORMANCE REQUIREMENTS, SUBMITTALS AND ACCEPTABLE PRODUCT APPLICATION AND INSTALLATION.
- REFER TO SHEETS P-10 AND P-11, PLUMBING DETAILS.
- REFER TO SHEETS P-12 AND P-13, RISER DIAGRAMS.
- ALL PIPE ROUTING IS DIAGRAMMATIC.
- PROVIDE NEW ISOLATION VALVES AT ALL TAPS OFF OF CW AND HW MAINS.
- DI WATER TO BE PLUMBED IN.
- REFER TO SHEET P-14 FOR PLUMBING FIXTURE SCHEDULES.

#### KEYED NOTES

- ROUTE CW DOWN TO WATER CLOSET. PROVIDE WATER HAMMER ARRESTOR IN WALL WITH ACCESS PANEL.
- ROUTE HW, CW DOWN TO FAUCET. PROVIDE TRUEBRO PIPE COVERS AS REQUIRED BY CODE, TYPICAL.
- ROUTE DI WATER TO HUMIDIFIER LOCATED ON WALL/SHELF.
- ROUTE CW DOWN IN WALL TO DI WATER GENERATOR.
- OWNER FURNISHED, CONTRACTOR INSTALLED DI WATER GENERATOR.
- ROUTE DI WATER FROM GENERATOR TO EQUIPMENT. REFER TO FLOOR PLAN FOR CONTINUATION.
- CONNECT NEW WASTE PIPE INTO EXISTING. CONTRACTOR TO VERIFY INVERT PRIOR TO SAW-CUTTING FLOOR.
- NEW WASTE LINE BELOW FLOOR. SAW-CUT EXISTING SLAB AS NEEDED TO FACILITATE NEW WASTE ROUTING.

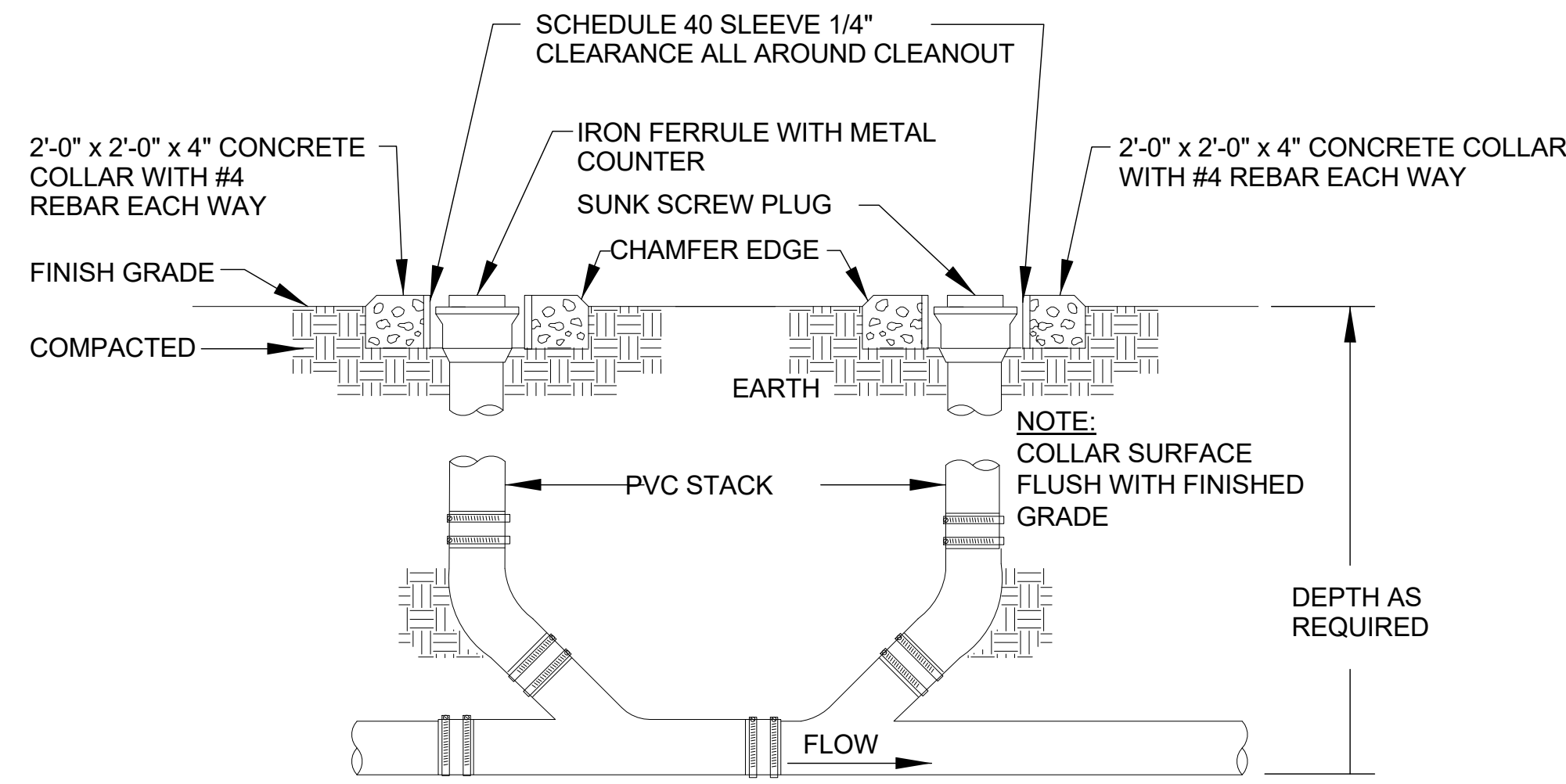
PROJECT NUMBER		117043	
SHEET		of	
DATE		07/20/2018	
SCALE		As indicated	
CHKD BY		BEST	
DRWN BY		MUUS	
Mescalero Service Unit 318 Abalone Loop Mescalero, NM 86803 OTERO COUNTY RENOVATION & ADDITION PLUMBING ENLARGED PLAN			
C			
INDIAN HEALTH SERVICE PHS - 1955			
Consultant			
ROCK GAP 2018 PROFESSIONAL ENGINEER			
C			
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110			
C			
MARK			
DATE			
DESCRIPTION			
PLUMBING			
ELECTRICAL			
MECHANICAL			
ARCHITECTURAL			
APPROVED			
STAMP			
KYLE BEST 2018 PROFESSIONAL ENGINEER			







\\ngm-fserver\users\isaiah\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiah\MLF.rvt

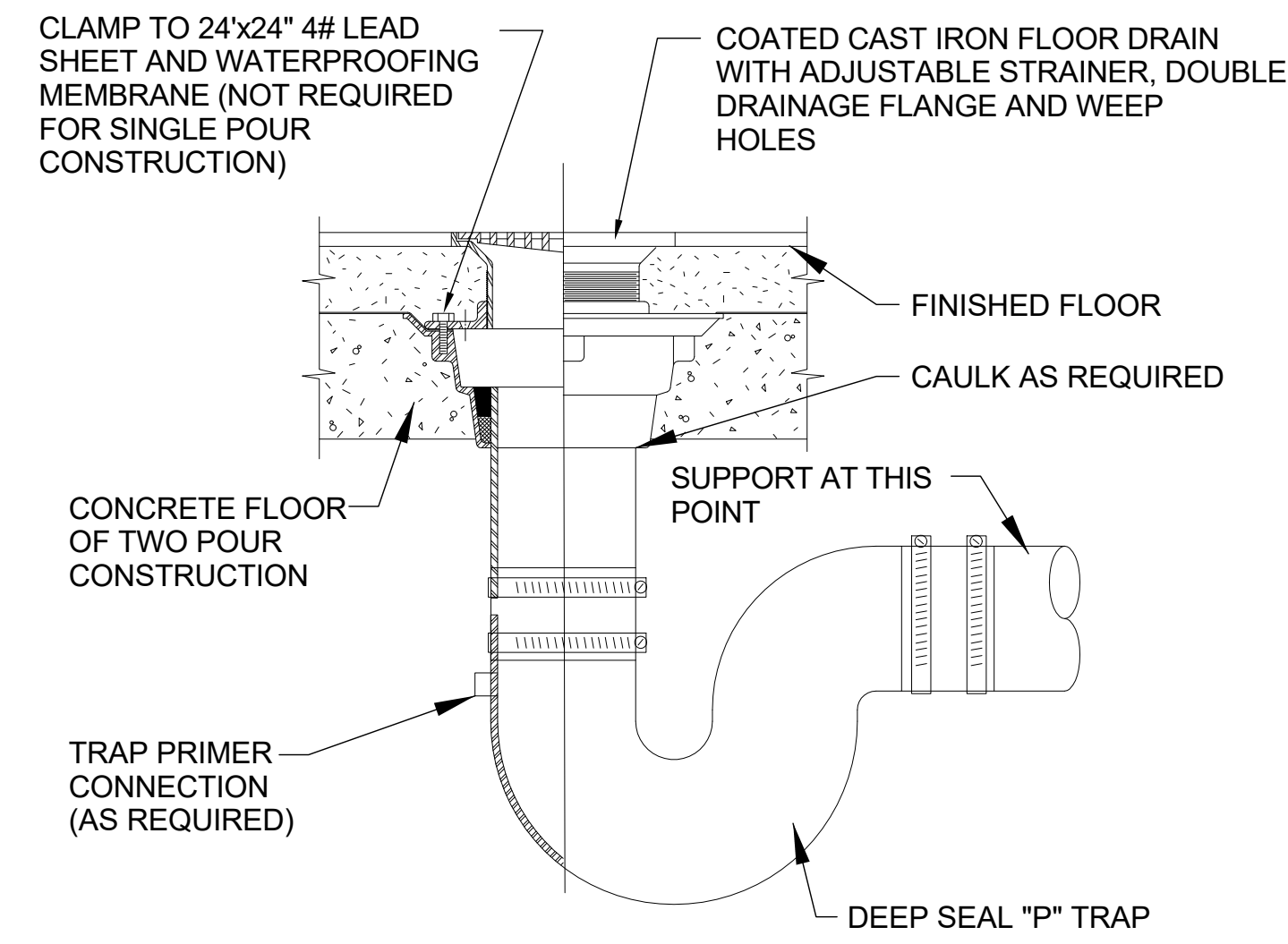


DOUBLE CLEANOUT TO GRADE DETAIL

SCALE: N.T.S.

1

P-10

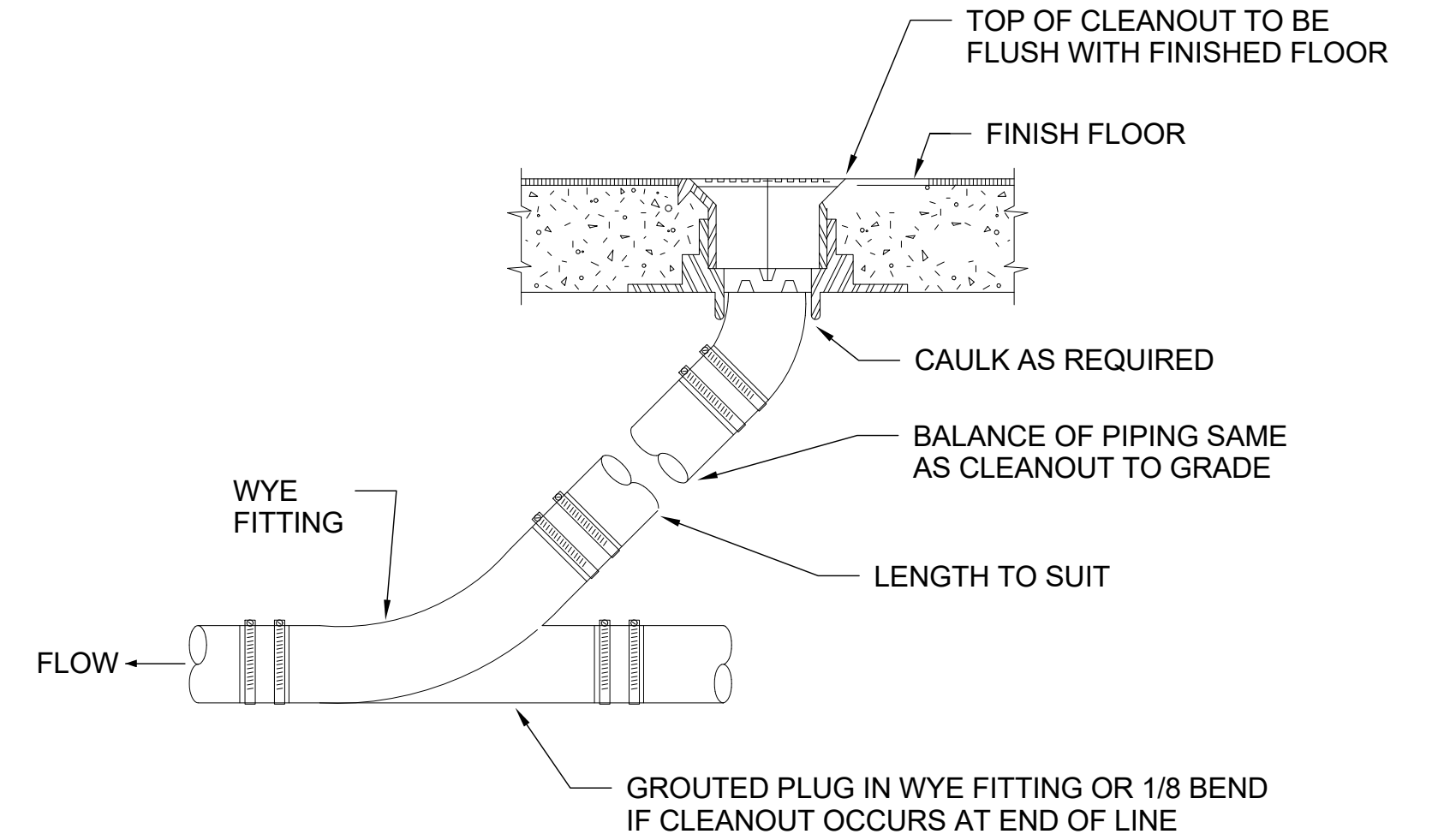


FLOOR DRAIN DETAIL

SCALE: N.T.S.

2

P-10

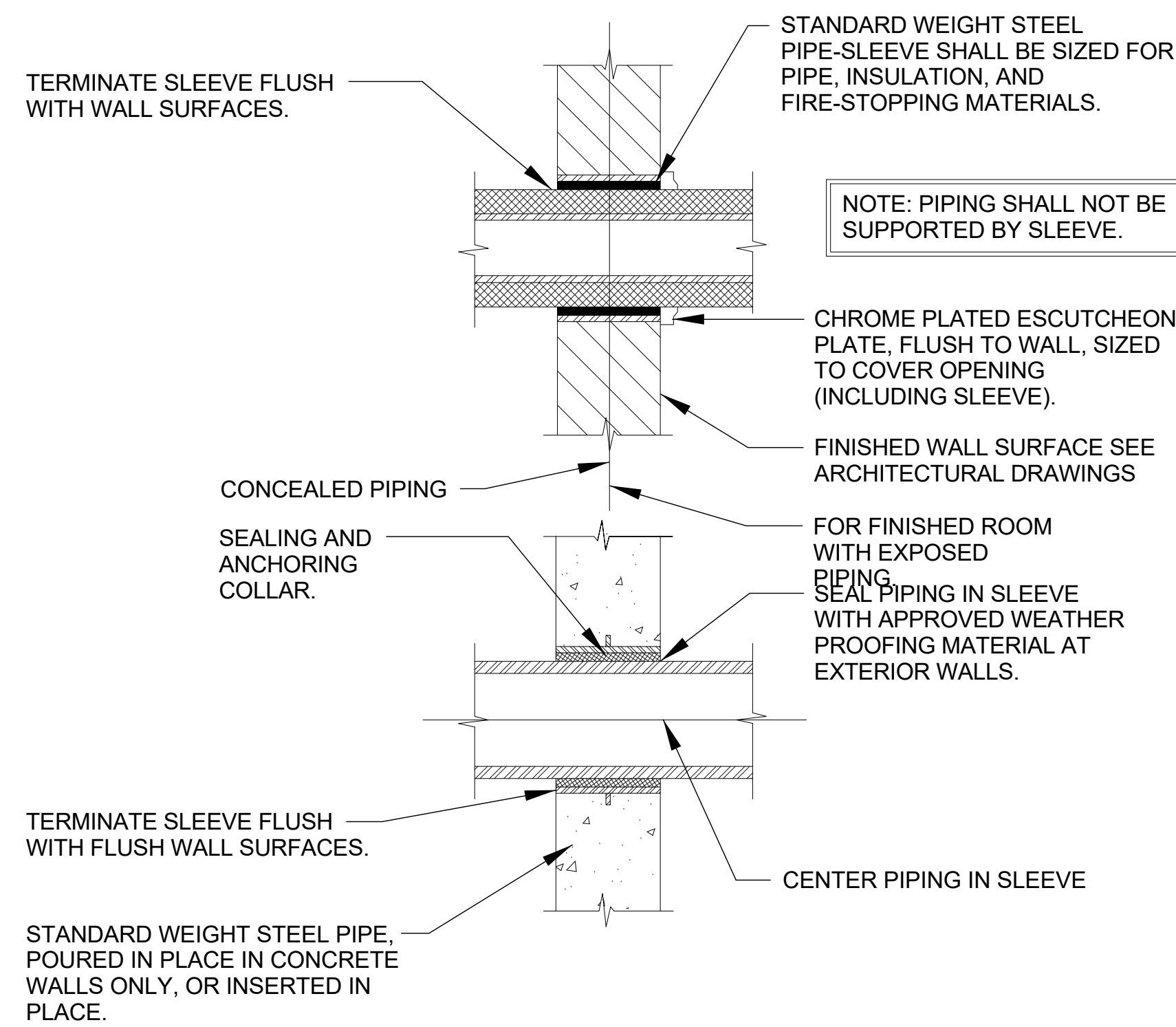


FLOOR CLEANOUT DETAIL

SCALE: N.T.S.

3

P-10

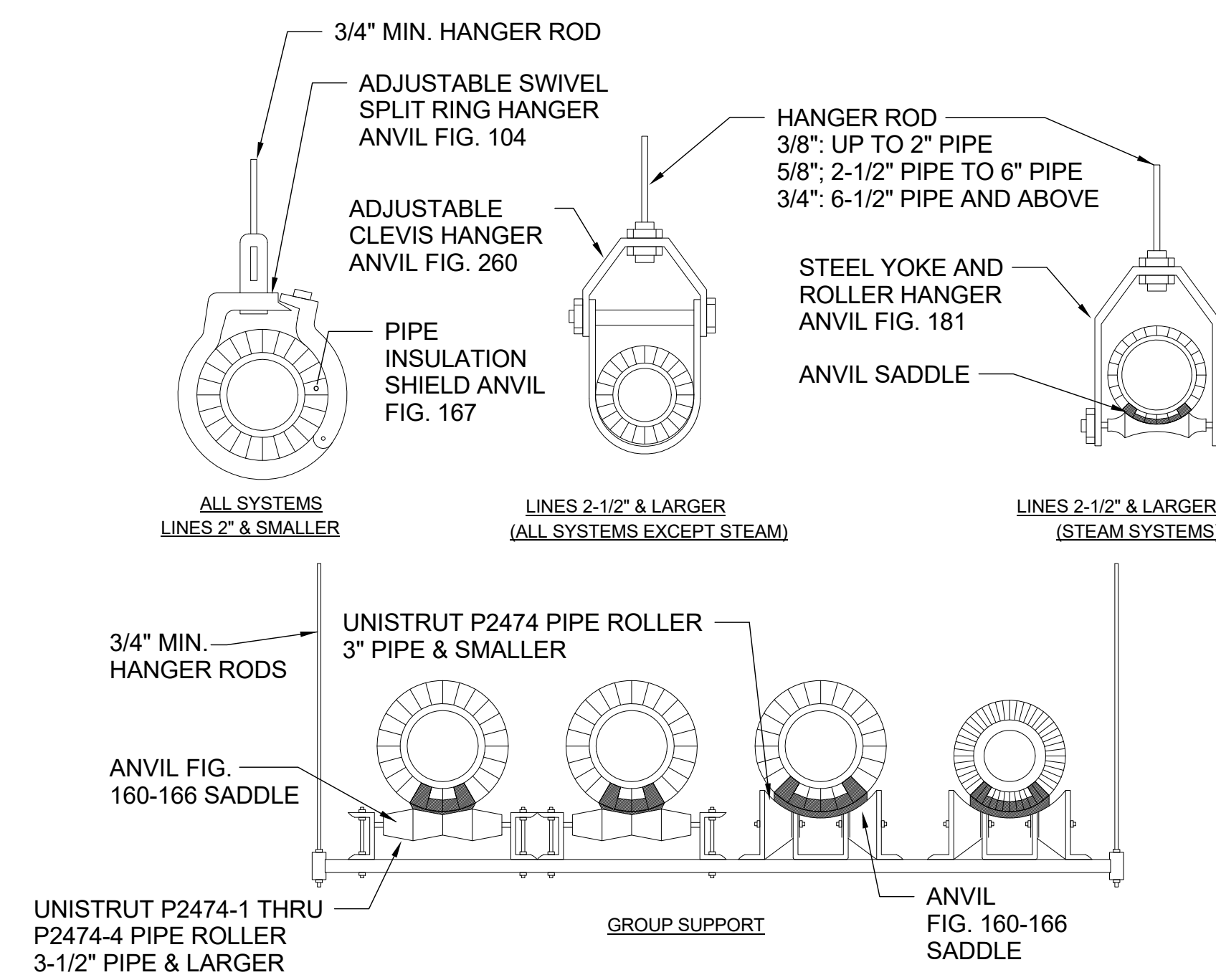


PIPE SLEEVE THROUGH WALL DETAIL

SCALE: N.T.S.

4

P-10

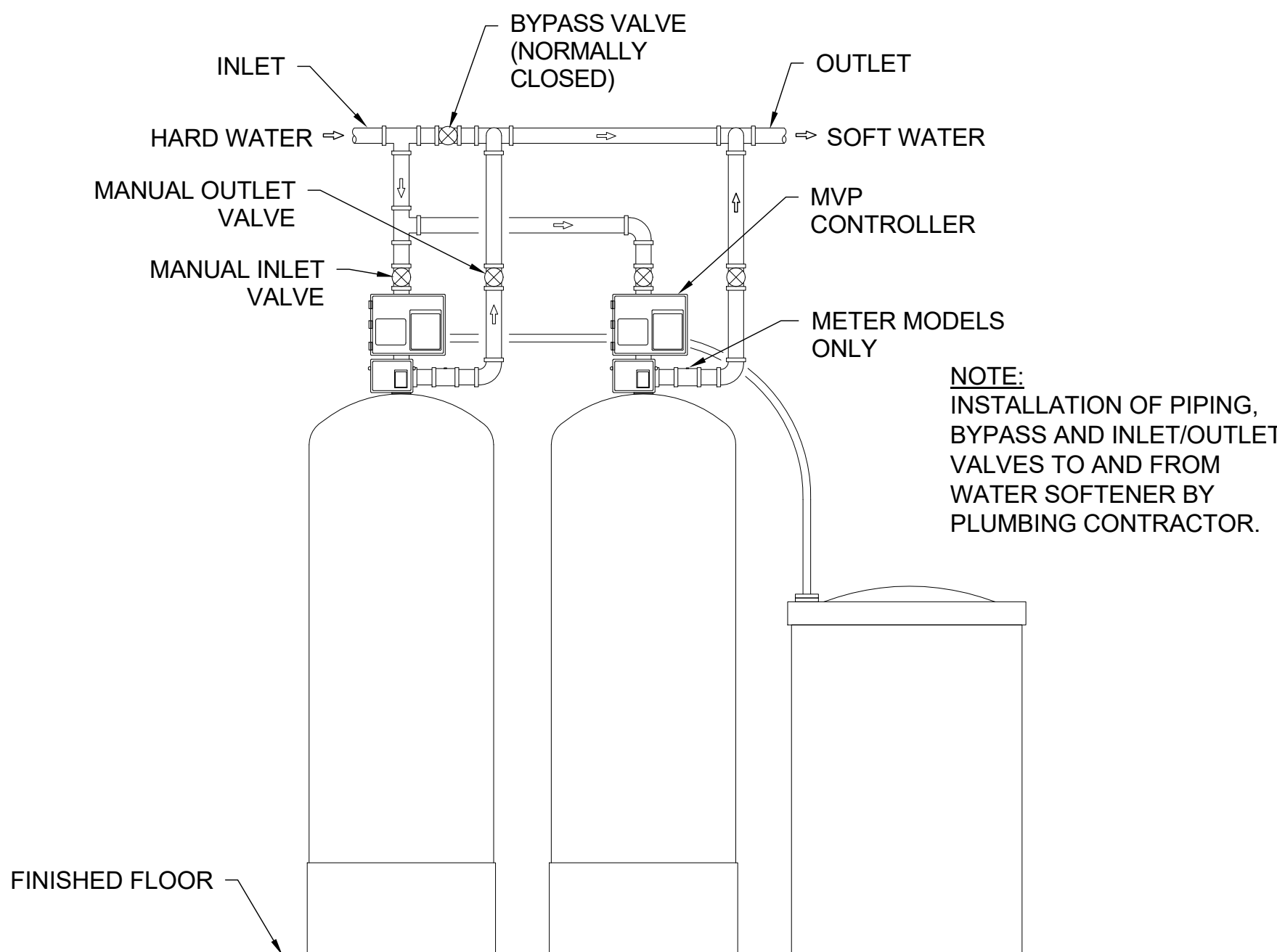


PIPE SUPPORTS DETAIL

SCALE: N.T.S.

5

P-10

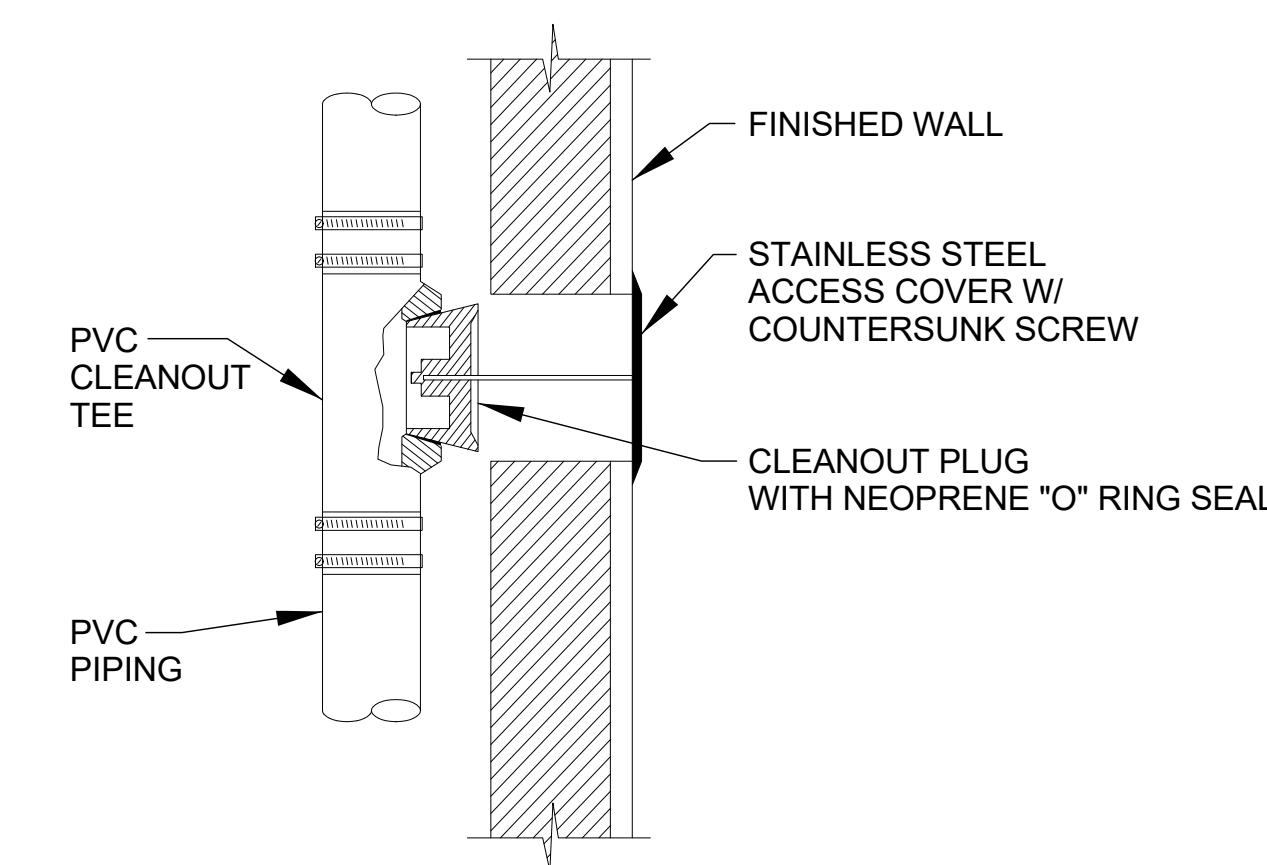


WATER SOFTENER DETAIL

SCALE: N.T.S.

6

P-10

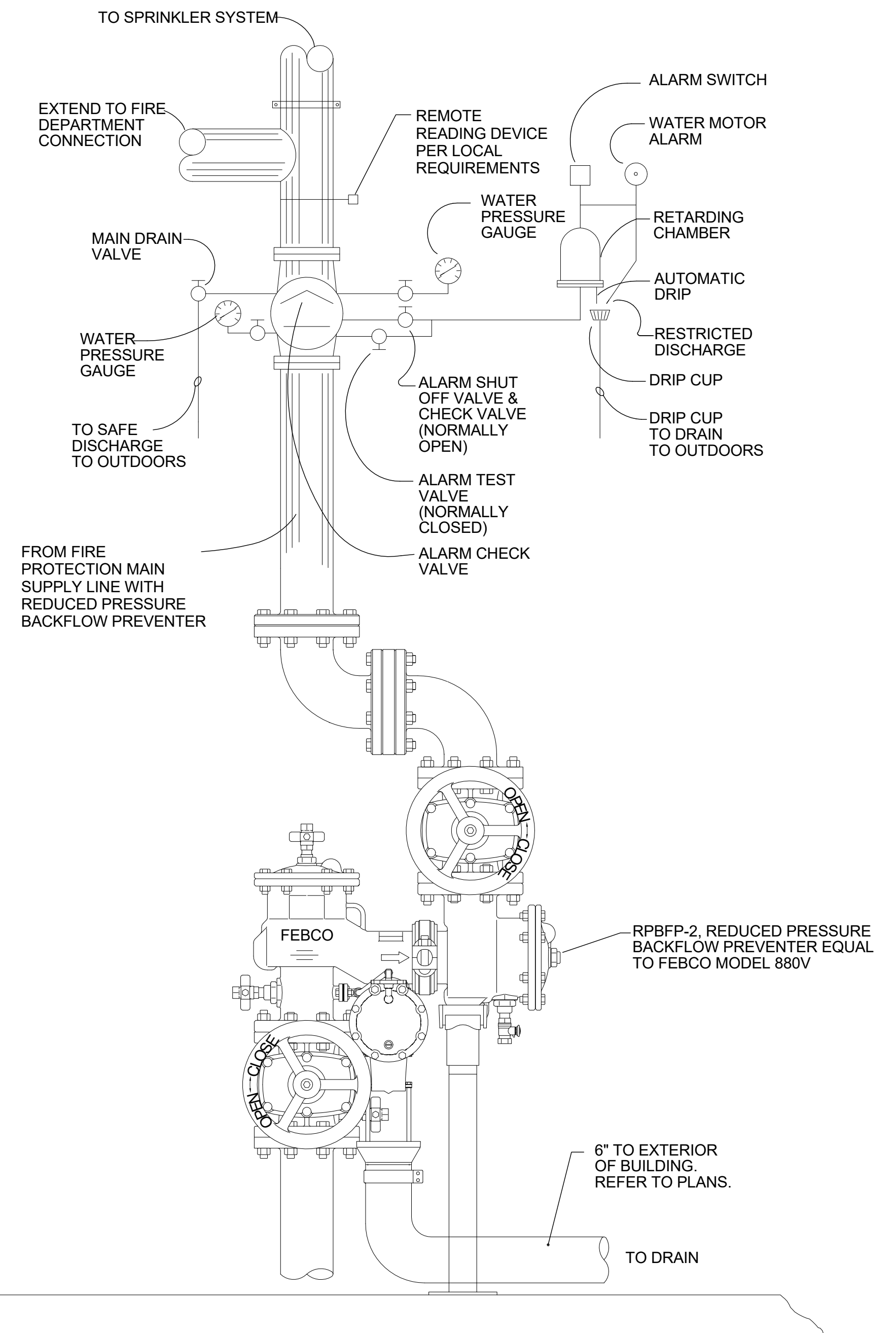


CLEANOUT THROUGH WALL DETAIL

SCALE: N.T.S.

7

P-10



FIRE WATER ENTRANCE DETAIL

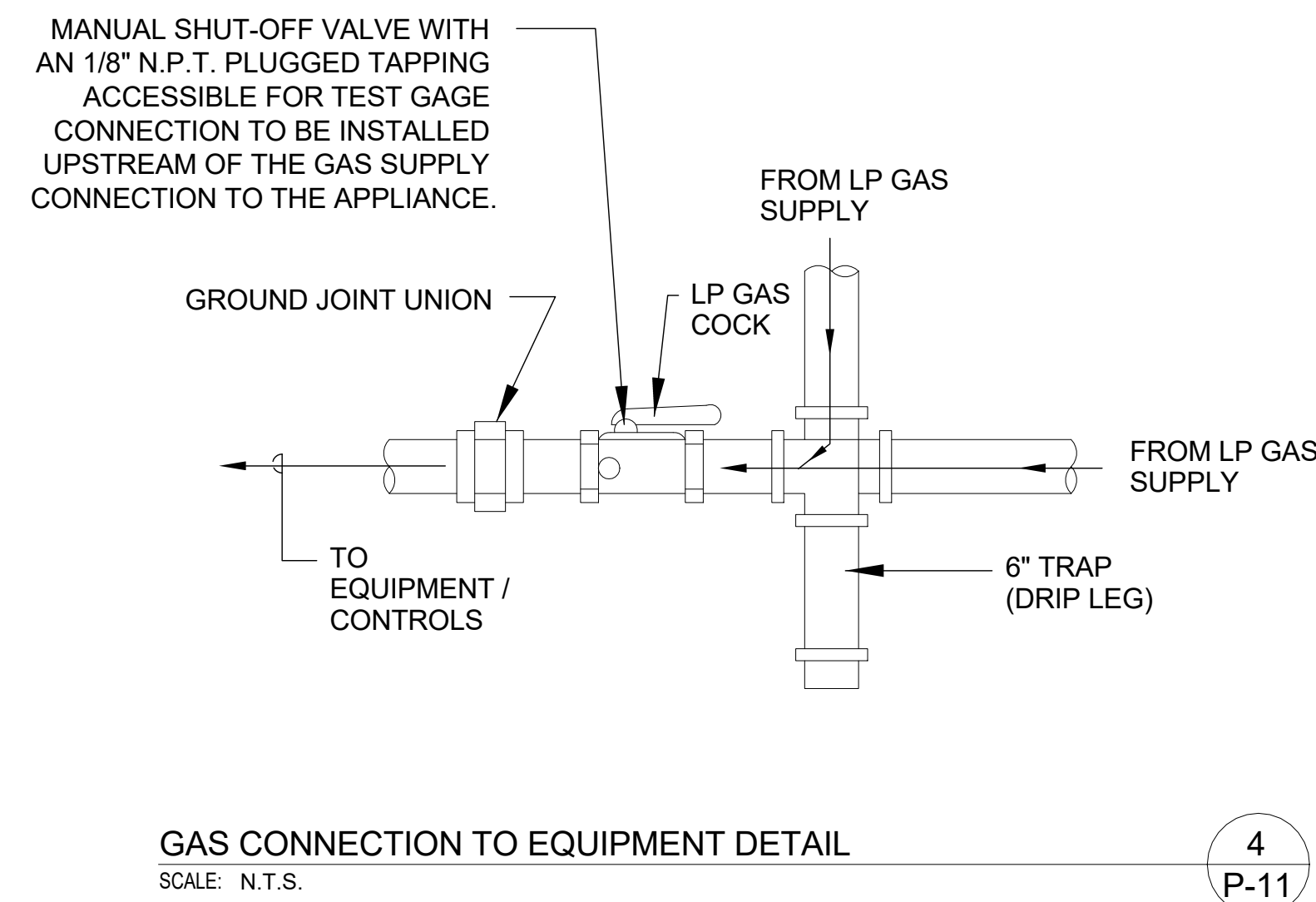
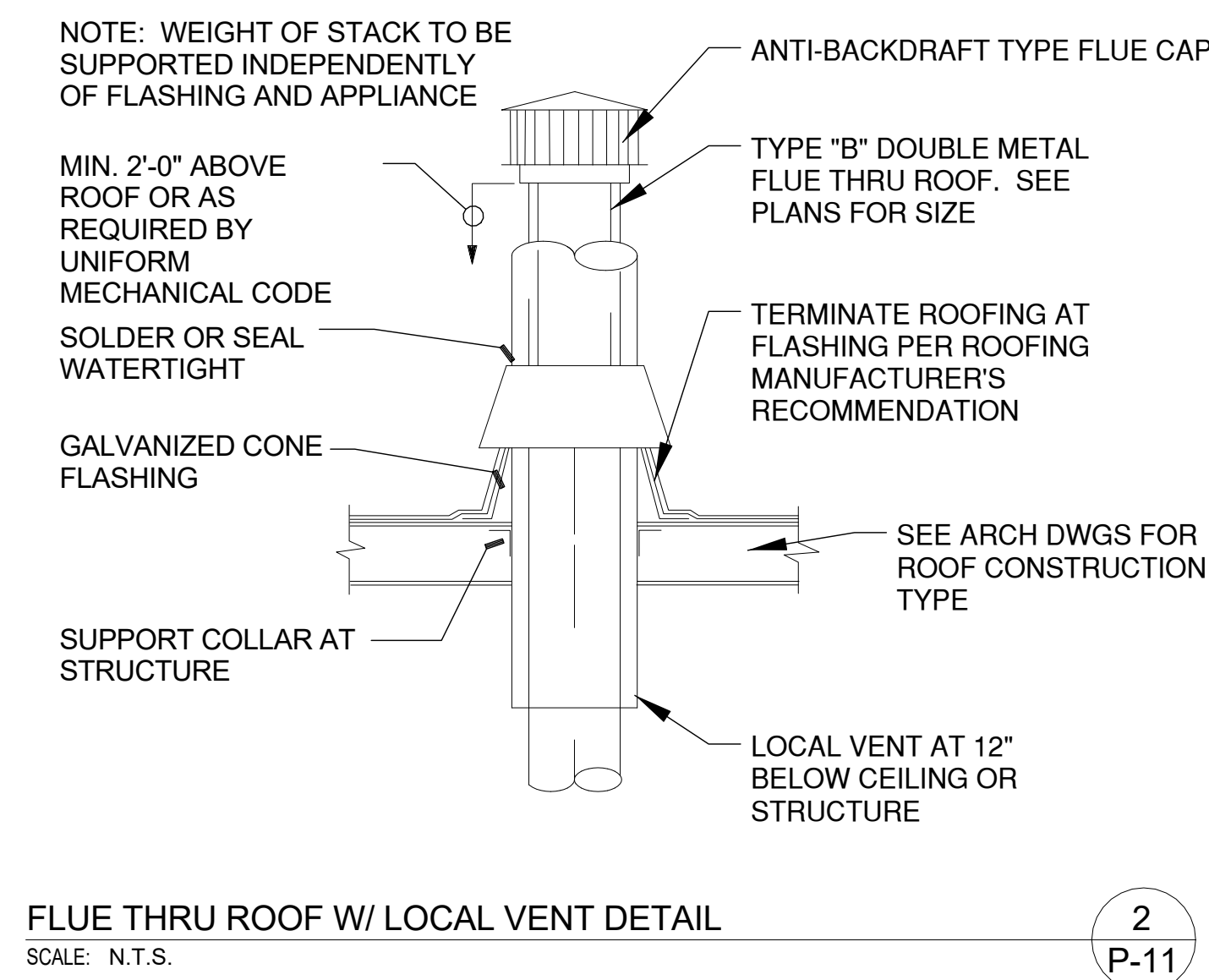
SCALE: N.T.S.

8

P-10

MARK	DATE	DESCRIPTION	PLUMBING
	07/20/2018		
APPROVED		ARCHITECTURAL	ELECTRICAL
		MECHANICAL	
STAMP			
KYLE BEST 2018 PROFESSIONAL ENGINEER			
CONSULTANT			
ROCK GAP P E N N S Y L V A N I A			
INDIAN HEALTH SERVICE 4551 Indian School Road NE Albuquerque, New Mexico 87110			
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE			
MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY RENOVATION & ADDITION PLUMBING DETAILS			
DRWN BY MUJUS			
CHKD BY BEST			
SCALE 1/8" = 1'-0"			
DATE 07/20/2018			
P-10			
PROJECT NUMBER 117043			
SHEET of			



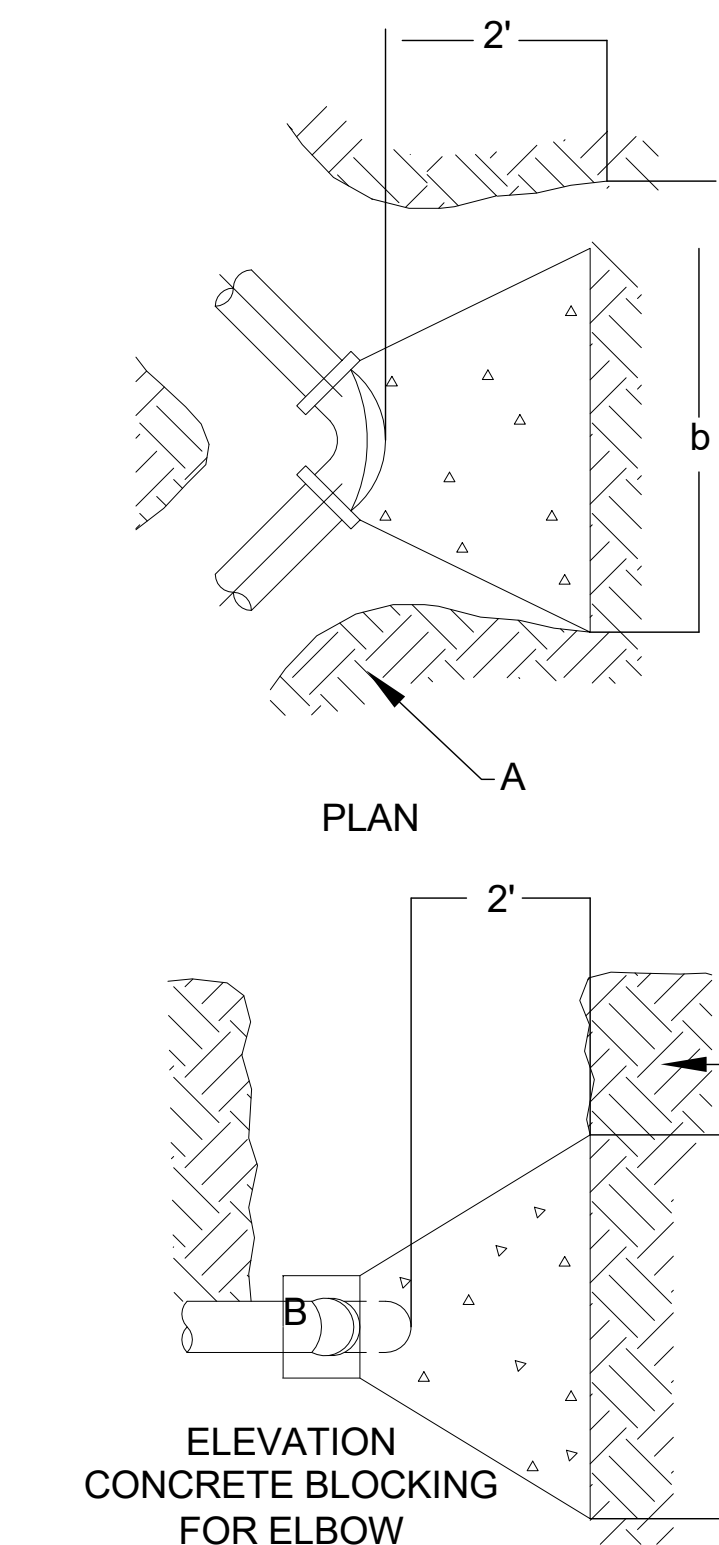


1. THE ENGINEER SHALL PROVIDE DESIGN FOR ALL JOINTS GREATER THAN 14".

PIPE SIZE	ELBOW ANGLE	ELBOW (b) DIM.	ELBOW (h) DIM.	TEE OR PLUG (b) DIM.	TEE OR PLUG (h) DIM.
4"				2'	1'
4"	90° 45°	2'	2'		
4"	22 1/2° 11 1/4°	2'	2'		
6"				2'	2'
6"	90° 45°	2'	2'		
6"	22 1/2° 11 1/4°	2'	2'		
8"				3'	3'
8"	90°	3'	3'		
8"	45°	2'	2'		
8"	22 1/2° 11 1/4°	2'	2'		

CONSTRUCTION NOTES:

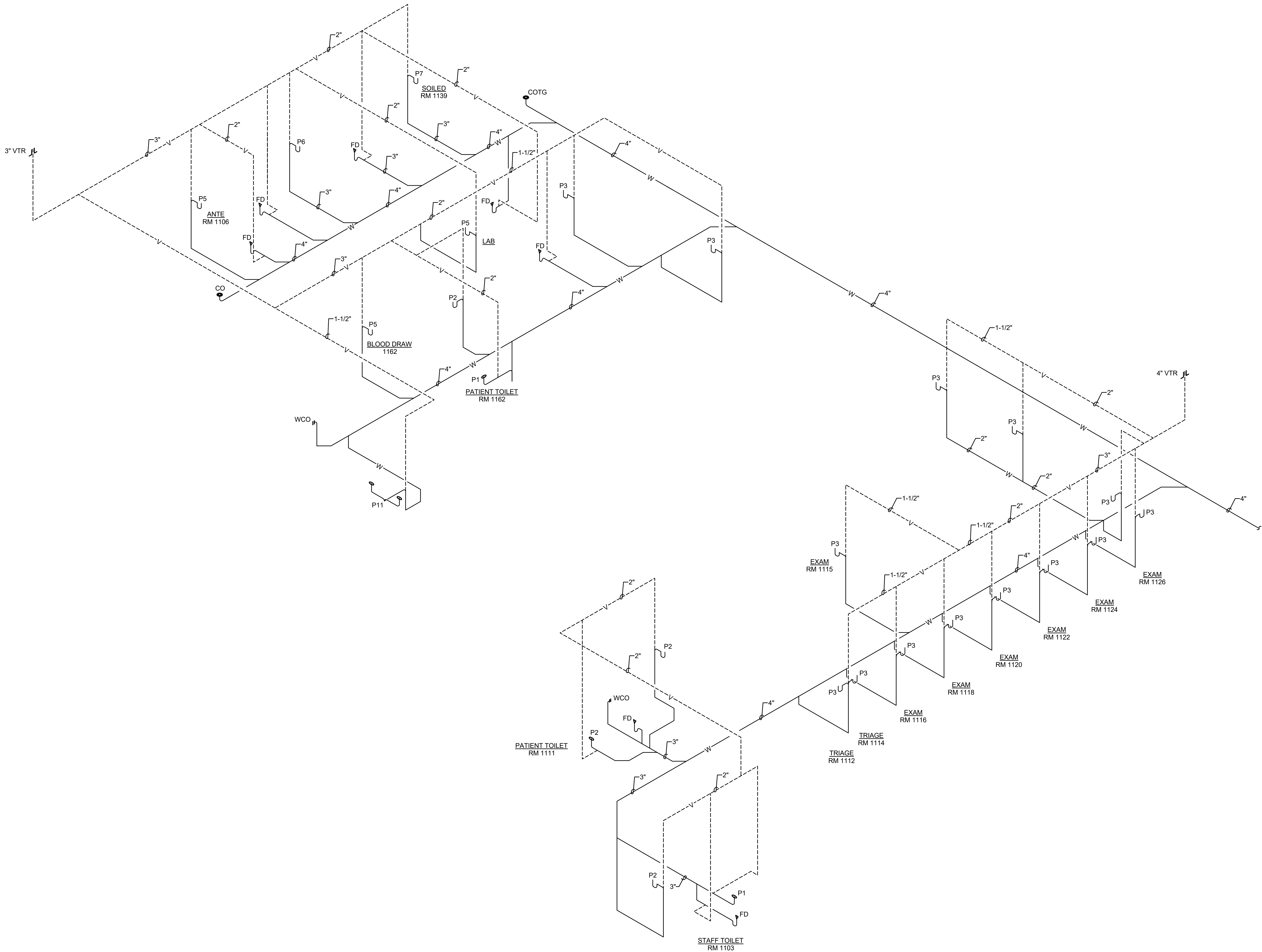
- A. UNDISTURBED EARTH.  
B. O.D. OF PIPE + 8".  
C. O.D. OF CAP OR PLUG, MIN. 12" X 12".



THRUST BLOCK DETAIL  
SCALE: N.T.S.



\\gpm-fserver\users\lisaiah\Documents\20-107 IHS Mesalero MEP\_v20\_lisaiah\MLF.rvt



PLUMBING WASTE & VENT RISER DIAGRAM - SECTION 2  
SCALE: N.T.S.

1  
P-12

MARK	DATE	DESCRIPTION
	07/20/2018	
APPROVED		
ARCHITECTURAL	MECHANICAL	ELECTRICAL
PLUMBING		

STAMP

KYLE BEST

2018

PROFESSIONAL ENGINEER

Consultant

ROCK GAP

2018

PROFESSIONAL ENGINEER

INDIAN HEALTH SERVICE

SHS

2018

PROFESSIONAL ENGINEER

DEPARTMENT OF HEALTH AND HUMAN SERVICES

INDIAN HEALTH SERVICE

OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING

ALBUQUERQUE AREA OFFICE

4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT

318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY

RENOVATION & ADDITION

PLUMBING WASTE & VENT RISER DIAGRAM

DRWN BY

MUUS

CHKD BY

BEST

SCALE

1/8" = 1'-0"

DATE

07/20/2018

P-12

PROJECT NUMBER

117043

SHEET

of







\\ngm-fsever\users\lisa\G\Documents\20-107 IHS Mescalero\_MEP\_v20\_isai\g\MLF.rvt

WATER HEATER SCHEDULE												
SYMBOL	MANUFACTURER AND MODEL	TYPE	SERVICE	TEMPERATURE RISE (°F)	OUTLET TEMP (°F)	TANK VOLUME (GALLON)	BTU INPUT (MBH)	BTU OUTPUT (MBH)	RECOVERY @ 90°F	VOLT / PH	MOCP	APPROX. WEIGHT (LBS.)
WH-1	A.O. SMITH BT-60	LIQUID PROPANE GAS STORAGE	DOMESTIC HOT WATER	85	140	55	60	54	58	120/1ø	15	185

- NOTES:  
1. POWERED DIRECT VENT WATER HEATER  
2. UNIT SELECTED FOR OPERATION AT 6700' ELEVATION  
3. PROVIDE STAINLESS STEEL VENTING KIT

MIXING VALVE SCHEDULE											
SYMBOL	MANUFACTURER AND MODEL	TYPE	SERVICE	LOCATION	OUTLET TEMP (°F)	INLET PIPE SIZE	OUTLET PIPE SIZE	RETURN PIPE SIZE	FLOW RATE	PRESSURE DROP	REMARKS
TMX-1	LEONARD MEGATRON 4NB-LF	BI-METALIC	DOMESTIC HOT WATER	MECHANICAL ROOM	120	1-1/4"	1-1/4"	3/4"	30 GPM	5 PSI	SEE NOTE 1

- NOTES:  
1. HIGH-LOW MIXER, PRE PIPED, FLOOR MOUNT, CIRCULATOR BY PLUMBING CONTRACTOR PER SCHEDULE, PIPING METHOD 5, DIAL THERMOSTAT ON DISCHARGE

DOMESTIC CIRCULATOR PUMP SCHEDULE											
MARK	LOCATION	SERVICE	GPM	HEAD PRESSURE (FT H2O)	MOTOR POWER (WATTS)	ELECTRICAL			WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
						VOLT / PH	MCA	MOCP			
CP-1	MECHANICAL ROOM	DOMESTIC WATER CIRCULATOR	5	25	370	120/1ø	3.5	15	17	GRUNDFOSS UPS25-100	SEE NOTE 1

- NOTES:  
1. MOUNT PUMP IN MIXING VALVE ASSEMBLY ON WALL. PROVIDE WITH T-STAT AND TIMER FOR CONTROL.

WATER SOFTENER SCHEDULE											
SYMBOL	DESCRIPTION	MANUFACTURER AND MODEL	ELECTRICAL			CONNECTIONS				NOTES	
			VOLT / PH	MCA	MOCP	CW	HW	WASTE	VENT		
WS-1	DUPLEX WATER SOFTENER SYSTEM	CULLIGAN CTM-90-PF MULTI-TANK SYSTEM	120/1	-	-	2"	-	1-1/2"	-	DUPLEX PROGRESSIVE FLOW COMMERCIAL WATER SOFTENER SYSTEM WITH GBE SMART CONTROLLER, 3 CUBIC FEET OF RESIN PER SOFTENER TANK AND 24" X 30" BRINE SYSTEM. (2) MINERAL TANKS, (2) VACUUM BREAKERS AND (2) 2" WATER METERS.	
BR	BRINE RECLAIM KIT	CULLIGAN								BRINE RECLAIM KIT WITH MVP ELECTRONIC CONTROLLER, PROVIDE WITH 120V TO 24V TRANSFORMER.	
ST	STORAGE TANK	CULLIGAN								(1) 100 GALLON STORAGE TANK	
RP	REPRESSURIZATION PUMP	CULLIGAN MQ3-45								(1) REPRESSURIZATION PUMP	

HUMIDIFIER											
MARK	LOCATION	SERVICE	NOMINAL OUTPUT CAPACITY	FAN CFM	ELECTRICAL			DIMENSIONS (L x D x H)	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
					VOLT / PH	VA	WATTS				
HUM-1	LAB	HUMIDIFIER	25 LB/Hr	180	120/1ø	700	35	29" x 16" x 13"	42	HUMIDIFIRST MP-25	OPTIONS INCLUDES SEE NOTE 1
HUM-2	LAB	HUMIDIFIER	25 LB/Hr	180	120/1ø	700	35	29" x 16" x 13"	42	HUMIDIFIRST MP-25	OPTIONS INCLUDES SEE NOTE 1

- NOTES:  
1. MASTER CONTROL PANEL  
2. DIGITAL HUMIDISTAT WITH CABLE  
3. WALL MOUNT STAINLESS STEEL MOUNTING SHELF WITH 3/4" fpt OVERFLOW DRAIN ATTACHMENT.  
4. 10' QUICK DISCONNECT CONTROL HARNESS BETWEEN MP & PANEL  
5. S2P SUPPLY WATER DEBRIS STRAINER  
6. ULTRA-PULSE TIME DELAY RELAY FOR ADJUSTABLE MIST DISCHARGE.  
7. MANUAL DRAIN VALVE WITH TUBING TO SHELF.

PLUMBING FIXTURE SCHEDULE											
SYMBOL	DESCRIPTION	ADA	MANUFACTURER AND MODEL	FAUCET MANUFACTURER AND MODEL NUMBER	ACCESSORIES	CONNECTIONS				REMARKS	LEED FLOW RATE
						CW	HW	WASTE	VENT		
P1	WATER CLOSET	NO	KOHLER, HIGHCLIFF ULTRA K-96057-SSL OR APPROVED EQUAL	KOHLER, K-13517 WC FLUSHOMETER MANUAL FLUSH VALVE AT 1.28	KOHLER, LUSTRA K-4670-SA ELONGATED OPEN FRONT WHITE SEAT LESS COVER	1-1/2"	-	4"	2"	VITREOUS CHINA, FLUSH VALVE, FLOOR MOUNTED, SIPHON JET, 1-1/2" TOP SPUD, CHINA BOLT CAPS, ELONGATED BOWL, 16-1/2" RIM. COLOR: WHITE	1.28 GPF
P2	WALL-HUNG LAVATORY	YES	KOHLER, GREENWICH K-2030 OR APPROVED EQUAL	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	1/2"	1/2"	2"	1-1/2"	21" X 18" VITREOUS CHINA, WALL MOUNTED LAVATORY WITH CONCEALED ARM CARRIER, (8" CENTERS), KOHLER K-7129-A GRID DRAIN WITH OVERFLOW, (2) ANGLE SUPPLY VALVE WITH STOP AND SUPPLY FLEXIBLE RISER, K-8996 P-TRAP, TRUBRO 103 E-Z LAV GUARD. SEE MANUFACTURE'S ROUGH-IN INSTRUCTIONS PRIOR TO ROUGH-IN FOR PROPER MOUNTING DETAILS. COLOR: WHITE	0.5 GPM
P3	EXAM ROOM SINK	YES	ELKAY, LRAD1720 TOP MOUNT OFF-CENTERED REAR DRAIN -OR- APPROVED EQUAL	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	1/2"	1/2"	2"	1-1/2"	OFF-CENTERED REAR DRAIN 17" x 20" x 6-1/2" DEEP 18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL, SINGLE COMPARTMENT SINK, SELF-RIMMING, AND COATED UNDERSIDE. SPECIFY SINK WITH 2-HOLES AT 4" CENTERS, GOOSENECK FAUCET.	0.5 GPM
P4	SINGLE COMPARTMENT SINK (PHARMACY)	YES	ELKAY, LR2521 TOP MOUNT OFF-CENTERED REAR DRAIN -OR- APPROVED EQUAL	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	1/2"	1/2"	2"	1-1/2"	OFF-CENTERED REAR DRAIN 26" x 21" x 7-1/2" DEEP 18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL, SINGLE COMPARTMENT SINK, SELF-RIMMING, AND COATED UNDERSIDE. SPECIFY SINK WITH 4-HOLES AT 4" CENTERS AND (2) ESCUTCHEON COVERS. DECK MOUNTED EYE-WASH WILL RESIDE IN THE 4TH HOLE.	-
P5	SINGLE COMPARTMENT SINK (LAB - CLEAN RM.)	YES	JUST MFG SLF-ADA-2131-A-GR OFF-CENTERED REAR DRAIN	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	1/2"	1/2"	2"	1-1/2"	31" x 21" x 6-1/2" DEEP 18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL, SINGLE COMPARTMENT SINK, SELF-RIMMING, AND COATED UNDERSIDE. SPECIFY SINK WITH 2-HOLES AT 4" CENTERS, GOOSENECK FAUCET.	-
P6	DOUBLE COMPARTMENT SINK (LAB - DIRTY SINK)	YES	JUST MFG DF-ADA-1933-1-GR OFF-CENTERED REAR DRAIN	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	1/2"	1/2"	2"	1-1/2"	OFF-CENTERED REAR DRAIN 33" x 19" x 6-1/2" DEEP, INTEGRAL-FLOW OVERFLOW SYSTEM.	-
P7	2-COMPARTMENT SINK WITH LEFT & RIGHT DRAINBOARDS (PRIMARY CARE)	NO	ELKAY FOOD SERVICE #14-2C18X24-2-18X 18" L x 24" W x 14" D	CHICAGO 116.427 AB.1 TOUCHLESS FAUCET AT 1.5 GPM, SINGLE HOLE, 5-1/4" GOOSENECK SPOUT	CHICAGO TRANSFORMER 243.259.00.1, CONNECTION WIRE 242.340.00.1, THERMOSTATIC MIXER 131-ABNF	3/4"	3/4"	3"	2"	ELKAY PART #14-2C18X24-2-18X, EAN #009490269594 16-GAUGE, 300 SERIES STAINLESS STEEL, DOUBLE COMPARTMENT SINK WITH DRAINBOARDS AT 18" L x 24" W x 14" D. HEIGHT 43.75", 74" LONG, 197 LBS. 9" BACKSPLASH WITH 8" CENTER FAUCET HOLES.	-
P8	WALL HUNG HAND SINK	YES	ELKAY, WCL1923SDC LAVATORY SINK & FAUCET KIT	FAUCET INCLUDED (ELKAY LK0232SBHSC)	ADA COMPLIANT, STAINLESS STEEL, ELKAY DRAIN INCLUDED, CARRIER WITH CONCEALED ARM SUPPORT, ANGLE SUPPLY VALVE WITH STOP, SUPPLY FLEXIBLE RISER AND P-TRAP, TRUBRO LAV GUARD	1/2"	1/2"	-	-	19" x 23" x 4" DEEP 18 GAUGE, TYPE 304 NICKEL BEARING STAINLESS STEEL, LAVATORY SINK KIT, AND COATED UNDERSIDE. REAR CENTER DRAIN, GOOSENECK FAUCET.	-
P9	DECK MOUNTED EYEWASH	YES	GUARDIAN GBF1849LH-R	-	ADA COMPLIANT, POLISHED CHROME PLATED BRASS, PLASTIC DUST COVER, G3600LF THERMOSTATIC MIXING VALVE WITH BOX	1/2"	1/2"	-	-	DECK MOUNTED, BARRIER FREE AUTOFLOW SWING DOWN EYEWASH, ADA COMPLIANT. TWO GS SPRAY HEADS WITH DUST COVER, INTERNAL FLOW CONTROL AND FILTER, PROVIDE MIXING VALVE, SET FOR 85°F OUTLET WATER TEMP.	-
P10	WALL MOUNTED EYEWASH	YES	GUARDIAN G1848LH-L	-	ADA COMPLIANT, POLISHED CHROME PLATED BRASS, PLASTIC DUST COVER, G3600LF THERMOSTATIC MIXING VALVE WITH BOX	1/2"	1/2"	-	-	WALL MOUNTED, BARRIER FREE AUTOFLOW SWING DOWN EYEWASH, ADA COMPLIANT. TWO GS SPRAY HEADS WITH DUST COVER, INTERNAL FLOW CONTROL AND FILTER, PROVIDE MIXING VALVE, SET FOR 85°F OUTLET WATER TEMP.	-
P11	ELECTRIC WATER COOLER DUAL-STATION, WITH BOTTLE FILL	YES	ELKAY MODEL LZSTL8GSC OR APPROVED EQUAL	-	P-TRAP AND SERVICE STOPS. ONE-PIECE VANDAL RESISTANT BUBBLERS AND FILTER	1/2"	-	1-1/2"	1-1/4"	ADA COMPLIANT, BARRIER-FREE ACCESS, LEAD FREE, SELF-CONTAINED, WALL HUNG ELECTRIC REFRIGERATED WATER COOLER WITH BARRIER FREE ACCESS, SELF-CLOSING EASY-TOUCH CONTROLS ON FRONT AND BOTH RIGHT AND LEFT SIDES. TWO-TONE GRAY ON UPPER SHROUD WITH TEXTURED GRAY LOWER SHROUD, INTEGRAL GRID DRAIN, FLEXI-GUARD SAFETY BUBBLER, 4.0 GPM BASE RATE, 370 WATTS, 4.0 FULL LOAD AMPS, MOTOR COMPRESSOR 115V, 60HZ SINGLE PHASE. PROVIDE P-TRAP AND LOOSE KEY SUPPLY AND STOP. INSTALL PER ADA AND MANUFACTURER'S REQUIREMENTS.	-
P12	JANITOR SINK	N/A	FIAT, TSB 100 OR APPROVED EQUAL	830-AA CHROME SERVICE FAUCET WITH VACUUM BREAKER, INTEGRAL STOPS	832-AA HOSE & HOOK, 889-CC HANGER AND CAST IRON P-TRAP	3/4"	3/4"	3"	2"	24" x 24" x 12" PRE-CAST TERRAZZO ONE PIECE MOP BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS, PROVIDE ADJUSTABLE WALL BRACE, PAL HOOK AND HOSE THREAD ON SPOUT. PROVIDE CONCRETE ANCHORS, BOLTS AND WASHERS AS REQUIRED FOR A SECURE INSTALLATION	-
P13	ROOF DRAIN	N/A	JAY R. SMITH MODEL 1015	-	-	-	-	-	-	UNDERDECK CLAMP, VANDAL PROOF CAST IRON DOME, SUMP RECEIVER, ADJUSTABLE EXTENSION SLEEVE WHERE REQUIRED, SIZE PER PLAN	-
P14	OVERFLOW ROOF DRAIN	N/A	JAY R. SMITH MODEL 1015	-	-	-	-	-	-	UNDERDECK CLAMP AND VANDAL PROOF CAST IRON DOME, ADJUSTABLE EXTENSION SLEEVE WHERE REQUIRED DUE TO ROOF CONSTRUCTION, PROVIDE 2" EXTERIOR WATER DAM, SIZE OF DRAIN NOTED ON PLANS.	-
P15	DOWNSPOUT NOZZLE & COVER	N/A	FROET LPS	-	-	-	-	-	-	ROUND FABRICATED ALUMINUM FRAME. SIZE PER PLANS. COORDINATE COLOR WITH ARCHITECT	-
P16	WALL HYDRANT	N/A	WOODFORD MODEL B65	-	-	3/4"	-	-	-	ANTI-SIPHON VACUUM BREAKER PROTECTED, FREEZE-LESS WALL HYDRANT HOUSED IN TAMPER RESISTANT BRASS BOX.	-
FD	FLOOR DRAIN	-	ZURN 415S	-	TRAP-SEAL (JR SMITH 2692), GRID STRAINER	-	-	2"	1-1/2"	FLOOR DRAIN WITH STRAINER AND ELASTOMERIC TRAP SEAL, SQUARE 6" x 6" INLET STRAINER	-
FS	FLOOR SINK	-	ZURN Z1902	-	TRAP-SEAL (JR SMITH 2692), INTERIOR DOME STRAINER, FULL GRATE UNLESS NOTED ON PLANS.	-	-	3	1-1/2"	FLOOR SINK WITH DOME STRAINER AND ELASTOMERIC TRAP SEAL. COORDINATE GRATE WITH PLANS.	-
ET	EXPANSION TANK	N/A	AMTROL, ST-S-C THERM-X-TROL	-	-	-	-	-	-	TOTAL VOLUME 2.1 GALLONS, MAXIMUM ACCEPTANCE 9.0 GALLONS, 3/4" NPT SYSTEM CONNECTION, 200' MAXIMUM OPERATING TEMPERATURE, 150 PSIG MAXIMUM WORKING PRESSURE, 55 PSIG FACTORY PRECHARGE.	-
HWCP	CIRCULATING PUMP	N/A	BELL & GOSSETT, NBF-12FL/W APPROVED EQUAL ARMSTRONG, TACO	-	-	-	-	-	-	MATERIAL - BRONZE, 3/4" FLANGE CONFIGURATION IN-LINE PUMP, CAPACITY: 17 GPM @ 12 FT. HEAD, 55W @ 2,800 RPM, 115V, 1 PH, 60 HZ. OPTIONS: AQUASTAT, AQ-34-P.	-
WHA	WATER HAMMER ARRESTOR	N/A	JAY R. SMITH, 5010 OR APPROVED EQUAL	-	-	-	-	-	-	WATER HAMMER ARRESTOR: STAINLESS STEEL CONSTRUCTION, PRE-CHARGED, PERMANENTLY SEALED, PIPE SIZE: 1", P.D.I. UNIT RATING: 12-32	-
RPBFP-1	REDUCE PRESSURE BACKFLOW PREVENTER	N/A	WATTS, SERIES 909	-	-	-	-	-	-	REDUCED PRESSURE ZONE ASSEMBLY WITH TWO IN-LINE CHECK VALVES. SIZE PER PLAN.	-
RPBFP-2	REDUCE PRESSURE BACKFLOW PREVENTER (FIRE RISER)	N/A	FEBCO 880V MASTER SERIES	-	-	-	-	-	-	REDUCED PRESSURE ZONE ASSEMBLY DUCTILE IRON BODY WITH OS&Y RESILIENT WEDGE GATE VALVES. SIZE PER FIRE PROTECTION HYDRAULIC CALCULATIONS.	-
BV	BALANCING VALVE	N/A	BELL, GOSSETT, CB-3/4S APPROVED EQUAL TACO FDI, MEPCO	-	-	-	-	-	-	POSITIVE SHUTOFF, MEMORY SETTINGS CONNECT: SOLDERED	-
TMV	THERMOSTATIC MIXING VALVE	N/A	LEONARD, TM-20-E OR APPROVED EQUAL	3/4"	3/4"	-	-	-	-	THERMOSTATIC WATER MIXING VALVE, 3/4" NPT INLET AND OUTLET, 1 GPM MINIMUM FLOW.	-
BFP-1	BACKFLOW PREVENTER	N/A	WATTS MODEL SD-2	-	-	-	-	-	-	LEAD-FREE BACKFLOW PREVENTER IS A DUAL CHECK VALVE. BODY AND ADAPTERS ARE OF 316 STAINLESS STEEL CONSTRUCTION AND ALL RUBBER COMPONENTS COMPLY WITH FDA REGULATIONS.	-
TP	TRAP PRIMER	N/A	PRECISION PLUMBING, GOV'T-50 OR APPROVED EQUAL	1/2"	-	-	-	-	-	MACHINED BRASS, 1/2" MALE NPT INLET, 1/2" FEMALE OUTLET. CONTINUOUS FLOW TYPE NOT ALLOWED.	-
WCO	WALL CLEANOUT	N/A	JAY R. SMITH, 4530S-U OR APPROVED EQUAL	-	-	-	-	-	-	DUCO CAST IRON CLEANOUT TEE AND COUNTERSUNK PLUG WITH STAINLESS STEEL ROUND COVER AND VANDAL PROOF SCREW. SAME SIZE AS SEWER LINE SERVED BY CLEANOUT.	-
FCO	FLOOR CLEANOUT	N/A	JAY R. SMITH, 4031L-U OR APPROVED EQUAL	-	-	-	-	-	-	DUCO CAST IRON CLEANOUT WITH ROUND ADJUSTABLE SCORATED SECURED NICKEL BRONZE TOP, GASKET SEAL - ABS PLUG, SPEED-SET OUTLET AND VANDAL PROOF TOP. SAME SIZE AS SEWER LINE SERVED BY CLEANOUT.	-
DCO	DOUBLE CLEANOUT EXTERIOR	N/A	JAY R. SMITH, 4250S-U OR APPROVED EQUAL	-	-	-	-	-	-	(2) DUCO CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORATED CAST IRON COVER WITH LIFTING DEVICE, NO-HUB OUTLET AND VANDAL PROOF TOP. SAME SIZE AS SEWER LINE SERVED BY CLEANOUT.	-
CO	CLEANOUT EXTERIOR	N/A	JAY R. SMITH, 4250S-U OR APPROVED EQUAL	-	-	-	-	-	-	DUCO CAST IRON CLEANOUT AND DOUBLE FLANGED HOUSING WITH HEAVY DUTY SECURED SCORATED CAST IRON COVER WITH LIFTING DEVICE, NO-HUB OUTLET AND VANDAL PROOF TOP. SAME SIZE AS SEWER LINE SERVED BY CLEANOUT.	-

DESCRIPTION

DATE

MARK

02

10/14/2021

AMENDMENT 002

APPROVED

STAMP

KYLE BEST

PROFESSIONAL ENGINEER

INDIAN HEALTH SERVICE

INDIAN HEALTH SERVICE

OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING

ALBUQUERQUE AREA OFFICE

4015 Indian School Road NE

Albuquerque, New Mexico

87110

DRWN BY

MARTIN

CHKD BY

SWIDERSKI

SCALE

1/8" = 1'-0"

DATE

07/20/2018

P-14

PROJECT NUMBER

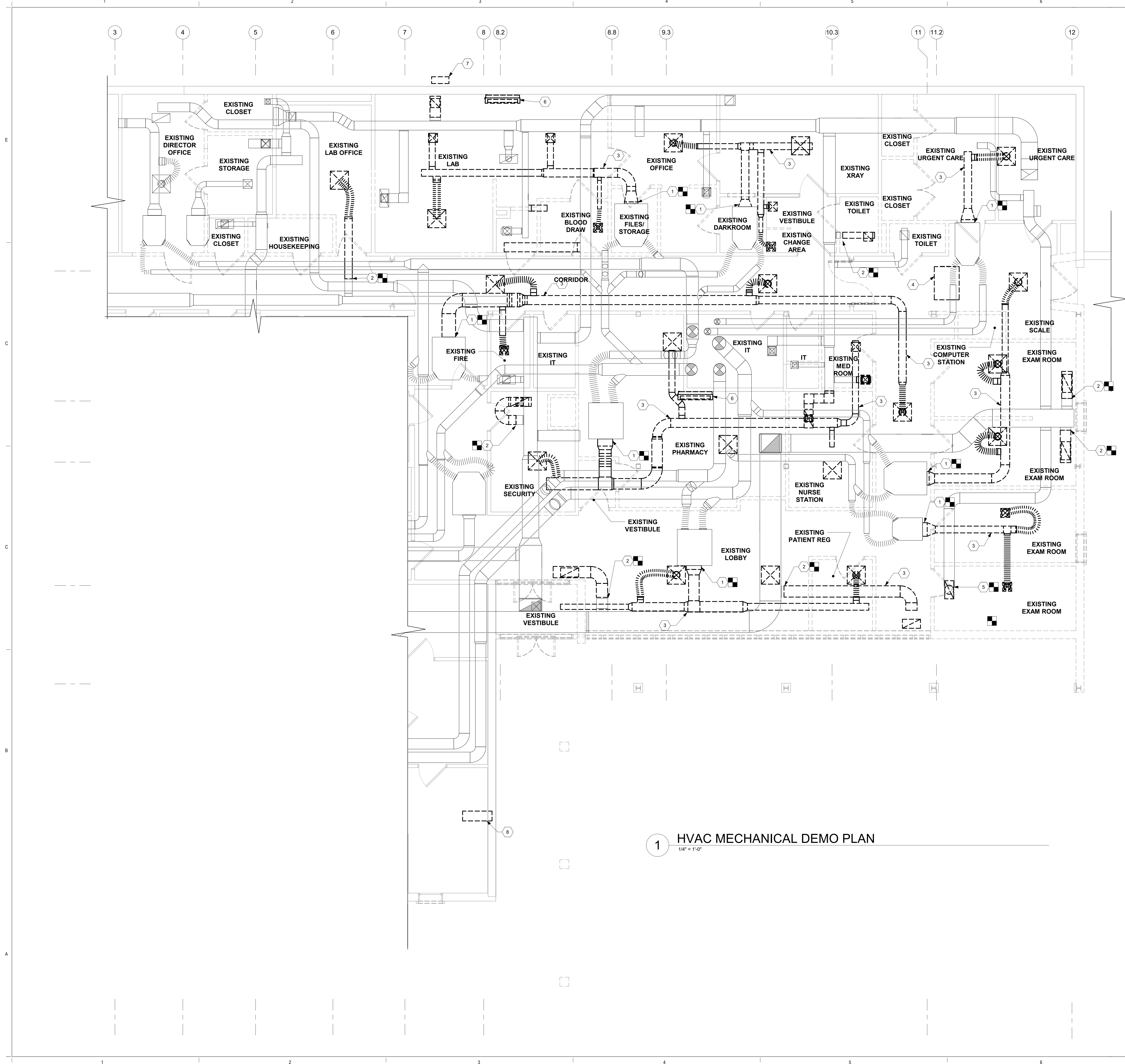
117043

SHEET

of



\\vgm-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



- GENERAL NOTES:
- A REFER TO M-1 FOR SYMBOLS AND LEGEND, AND M-2 FOR GENERAL NOTES.
  - B REFER TO M-7 FOR DETAILS.
  - C REFER TO M-8 FOR EQUIPMENT SCHEDULES.

- # KEYED NOTES
- 1 DISCONNECT OUTLET DUCTWORK FROM MIXING BOX ABOVE CEILING. BOX TO REMAIN FOR RE-USE IN NEW CONSTRUCTION. REMOVE OUTLET DUCTWORK AND DIFFUSERS COMPLETE
  - 2 DISCONNECT DUCTWORK FROM MAINS AS SHOWN. REFER TO NEW WORK FOR RECONNECTION OR CAPPING.
  - 3 REMOVE DUCTWORK AND HANGERS FROM ABOVE CEILING SPACE AS SHOWN.
  - 4 REMOVE EXISTING FAN COIL COMPLETE. DISCONNECT SUPPLY AND RETURN WATER PIPES, CAP AND SEAL. REMOVE ELECTRICAL CONNECTIONS. REFER TO ELECTRICAL FOR CIRCUIT DETAILS.
  - 5 REMOVE EXISTING RETURN GRILLE. REMOVE CONNECTION BACK TO MAIN DUCT. PATCH AND SEAL MAIN DUCT.
  - 6 EXISTING DX SPLIT SYSTEM ON WALL. REMOVE UNIT AND ASSOCIATED PIPING COMPLETE. REMOVE REFRIGERANT LINE-SET BETWEEN UNIT AND OUTDOOR UNIT.
  - 7 APPROXIMATE LOCATION OF LAB OUTDOOR SPLIT-SYSTEM. UNIT IS LOCATED AT GRADE NEAR THE SECOND FLOOR EMERGENCY ENTRANCE. CONTRACTOR TO REMOVE OUTDOOR UNIT DURING DEMO.
  - 8 APPROXIMATE LOCATION OF PHARMACY OUTDOOR SPLIT-SYSTEM. UNIT IS LOCATED ON THE ROOF OF THE FIRST FLOOR ABOVE THE ENTRY CANOPY. CONTRACTOR TO REMOVE OUTDOOR UNIT AND ASSOCIATED REFRIGERANT PIPING DURING DEMO.



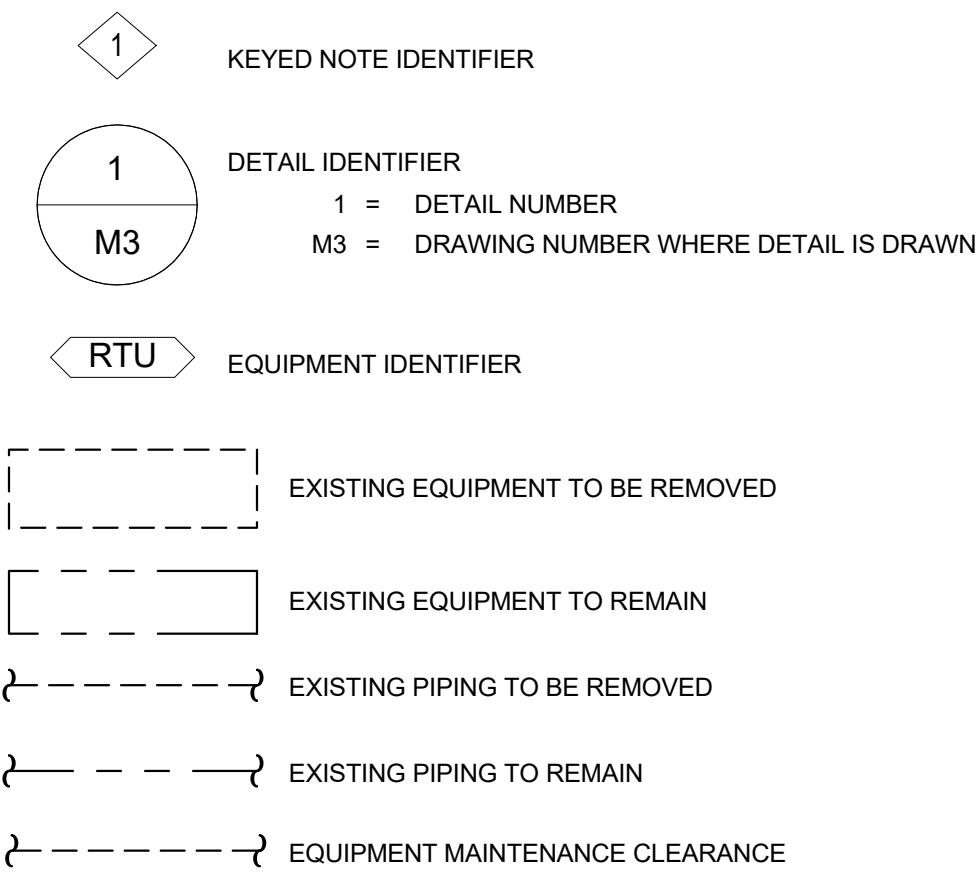
DATE 07/20/2018		DESCRIPTION MECHANICAL		PLUMBING	
MARK		APPROVED		ELECTRICAL	
STAMP KYLE BEST 2018 PROFESSIONAL ENGINEER		ARCHITECTURAL		MECHANICAL	
CONSULTANT ROCK GAP ARCHITECTS P.C.		INDIAN HEALTH SERVICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	
Mescalero Service Unit 318 Abalone Loop Mesalero, NM 88503		RENOVATION & ADDITION		MECHANICAL DEMO	
DRWN BY VICUNA		CHKD BY BEST		SCALE 1/4" = 1'-0"	
DATE 07/20/2018		PROJECT NUMBER 117043		SHEET of	
DM-1					



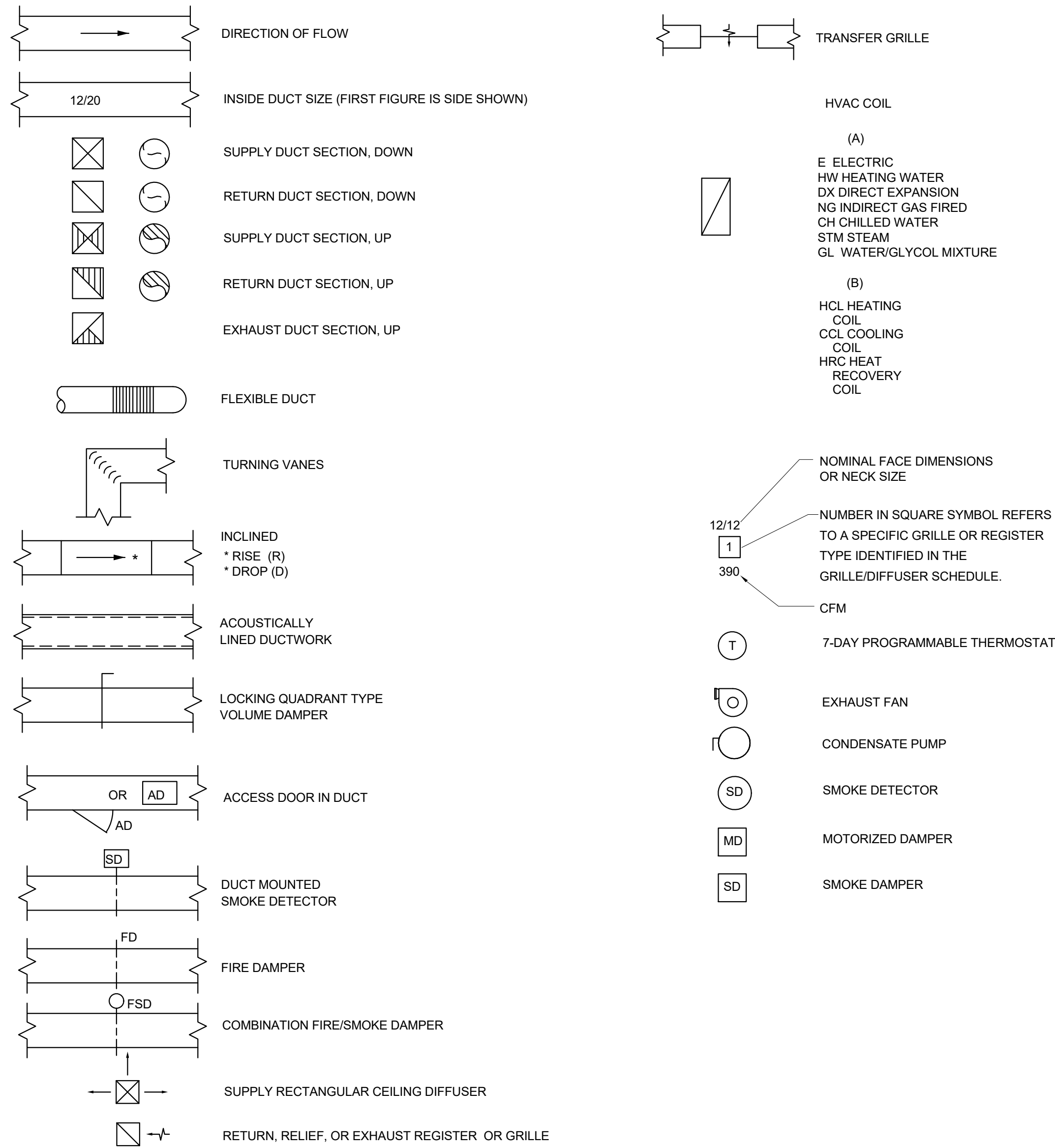
\\gdm-fserver\users\slsiah\G\Documents\20-107 IHS Mescalero\_MEP\_v20\_isiahg\MLF.rvt

## MECHANICAL SYMBOL LEGEND

### GENERAL



### DUCTWORK SYMBOLS



(SOME SYMBOLS AND ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)

### ABBREVIATIONS

A		IN	
AFF	ABOVE FINISHED FLOOR	ID	INNER DIAMETER
AFG	ABOVE FINISHED GRADE	K	
ACS DR	ACCESS DOOR	KW	KILOWATT
ACOUS LN	ACOUSTIC LINING	KWH	KILOWATT HOUR
A/C	AIR CONDITIONING	L	
AHU	AIR HANDLING UNIT	LX	LABORATORY EXHAUST AIR
B		M	
BOD	BOTTOM OF DUCT	MA	MIXED AIR
BOP	BOTTOM OF PIPE	MAX	MAXIMUM
BHP	BRAKE HORSEPOWER	MIN	MINIMUM
BTUH	BTU PER HOUR	N	
BMCS	BUILDING MANAGEMENT CONTROL SYSTEM	NA	NOT APPLICABLE
BP	BUILDING PRESSURE	NIC	NOT IN CONTRACT NUMBER (QUANTITY)
C		NPW	NON-POTABLE WATER
CO	CLEANOUT	O	
COTF	CLEANOUT TO FLOOR	OB	OPPOSED BLADE DAMPER
COTG	CLEANOUT TO GRADE	OA	OUTSIDE AIR
COTW	CLEANOUT TO WALL	OC	ON CENTER
CAM	CONTINUOUS AIR MONITORING	OD	OUTSIDE DIAMETER
CAV	CONSTANT AIR VOLUME	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
CONT.	CONTINUATION	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
CF/CI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
CFM	CUBIC FEET PER MINUTE	OF/CI	OWNER FURNISHED, CONTRACTOR INSTALLED
D		P	
DEMO	DEMOLISH, DEMOLITION	PCM	PROGRAMMABLE CONTROL MODULE
DR	DRAIN	PH	MEASURE OF ACIDITY OR ALKALINITY
DX	DIRECT EXPANSION	POC	POINT OF CONNECTION TO EXISTING
E		POR	POINT OF REMOVAL FROM EXISTING
EF	EXHAUST FAN	PSIG	POUNDS PER SQUARE INCH GAGE
EP	ELECTRIC-PNEUMATIC	PRV	PRESSURE REDUCING VALVE
EXH	EXHAUST	Q	
EXV	EXHAUST VENT	QTY	QUANTITY
F		R	
*F	DEGREES FAHRENHEIT	RLA	RELIEF AIR
FCO	FLOOR CLEANOUT	RA	RETURN AIR
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FH	FUME HOOD	RTU	ROOF TOP UNIT
FLEX	FLEXIBLE	S	
FLEX CONN	FLEXIBLE CONNECTOR	SA	SUPPLY AIR
FT	FEET	SD	SMOKE DETECTOR
FPM	FEET PER MINUTE	ST PR	STATIC PRESSURE (INCHES OF WATER)
G		SST	STAINLESS STEEL
GPH	GALLONS PER HOUR	T	
GPM	GALLONS PER MINUTE	3WAY CV	THREE WAY CONTROL VALVE
GF/CI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED	TA	TRANSFER AIR
GF/GI	GOVERNMENT INSTALLED, GOVERNMENT INSTALLED	TBD	TO BE DETERMINED
GA	GAGE	TYP	TYPICAL
GALV	GALVANIZED	U	
GEV	GLOVEBOX EXHAUST VALVE	UNO	UNLESS NOTED OTHERWISE
GL	GLYCOL	V	
H		VAC	VACUUM
HD	HEAD, HUB DRAIN, HEAT DETECTOR	VAV	VARIABLE AIR VOLUME
HEPA	HIGH EFFICIENCY PARTICULATE AIR	VD	VOLUME DAMPER
HOA	HAND-OFF-AUTOMATIC	VEL	VELOCITY
HC	HEATING COIL	VFD	VARIABLE FREQUENCY DRIVE
HP	HORSEPOWER	VTR	VENT THRU ROOF
HSTAT	HUMIDISTAT	V	VOLTS
HT	HEIGHT	W	
HTG	HEATING	WCO	WALL CLEANOUT
HTR	HEATER		
HVAC	HEATING, VENTILATING AND AIR CONDITIONING		
HW	HOT WATER		
HYD	HYDRANT		
HZ	HERTZ		

## GENERAL NOTES

- ALL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. INSTALL WORK AS HIGH AS POSSIBLE AND CAREFULLY COORDINATE ALL WORK WITH STRUCTURAL, ELECTRICAL, PLUMBING, ETC.
- ALL FLEXIBLE DUCT SHALL BE FULLY EXTENDED AND SUPPORTED, FREE OF KINKS, NO LONGER THAN 5'-0" AND SAME SIZE AS DIFFUSER NECK OR PROVIDE DUCT TRANSITION TO NECK SIZE AS REQUIRED.
- ALL DUCT SEAMS SHALL BE SEALED AIRTIGHT WITH HIGH PRESSURE DUCT SEALER OR HIGH VELOCITY TAPE.
- PROVIDE ALL NECESSARY FITTINGS FOR RISERS AND OFFSETS IN DUCTWORK AND PIPING REQUIRED FOR PROPER INSTALLATION WHETHER OR NOT SHOWN ON DRAWINGS.
- ALL DUCTWORK INSTALLED IN AREAS WITH CEILING TO BE ROUTED BETWEEN LIGHTS AS MUCH AS POSSIBLE AND INSTALLED AS HIGH AS POSSIBLE.
- ALL DUCT PENETRATIONS THROUGH THE ROOF SHALL BE CURBED, FLASHED AND COUNTERFLASHED TO ACHIEVE A WATERTIGHT CONSTRUCTION.
- COORDINATE ROOF PENETRATIONS TO AND FROM EQUIPMENT WITH STRUCTURAL DRAWING. ROOF OPENINGS SHALL BE LOCATED BETWEEN JOISTS. ANY ROOF PENETRATION 8/8 IN SIZE OR LARGER SHALL BE PROVIDED WITH SECURITY BARS.
- INSTALL "SPIN-IN" TYPE FITTINGS WITH BALANCING DAMPERS FOR ROUND BRANCH RUNOUTS TO EACH DIFFUSER AS INDICATED ON PLANS. BRANCH DUCTS TO DIFFUSERS SHALL BE OF EQUAL SIZE TO NECK DIAMETER.
- ALL 90-DEG. SQUARE ELBOWS SHALL BE PROVIDED WITH DOUBLE THICK TURNING VANES.
- ALL COMBINATION FIRE/SMOKE AND FIRE DAMPERS SHALL BE INSTALLED IN A U.L. APPROVED MANNER AND SHALL BE U.L. LISTED.
- ALL WALL MOUNTED THERMOSTATS SHALL BE MOUNTED UP 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- PROVIDE ACCESS DOORS IN FIXED CEILINGS, CHASES AND DUCTWORK TO ALL FIRE DAMPERS, BALANCING DAMPERS, VALVES OR OTHER MECHANICAL DEVICES REQUIRING SERVICE ACCESS.
- PROVIDE FLEXIBLE CONNECTIONS AT AIR HANDLING AND MAKE-UP AIR UNIT SUPPLY AND RETURN AIR DUCT CONNECTIONS.
- ALL DIFFUSERS AND GRILLES SMALLER THAN THE CEILING T-BAR SPACING SHALL BE INSTALLED CENTERED IN CEILING TILE AND INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE WITH CEILING TIE WIRES AND SHALL HAVE CONCEALED FASTENERS.
- ALL EXHAUST FANS, FLUES, AND PLUMBING VENTS SHALL BE LOCATED AT LEAST 10'-0" FROM ANY OUTSIDE AIR INTAKES.
- ALL LOW VOLTAGE CONTROL WIRING SHALL BE PROVIDED AND INSTALLED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE AND SHALL BE RATED FOR PLENUM INSTALLATION.
- LOCATION OF THERMOSTATS AND ACCESS DOORS SHALL BE VERIFIED WITH ARCHITECT BEFORE INSTALLATION.
- LINE ANY RETURN DUCTS DOWNSTREAM OF PACKAGED UNITS AS INDICATED ON PLANS WITH 1" INTERNAL INSULATION. LINE ANY TRANSFER DUCTS AS INDICATED ON PLANS WITH 1" INTERNAL INSULATION. ALL OTHER SUPPLY AND RETURN DUCTWORK SHALL BE WRAPPED WITH 1-1/2" EXTERNAL INSULATION. ALL OTHER TRANSFER AIR DUCTS SHALL BE UN-INSULATED. SUPPLY AND RETURN DUCTWORK OUTSIDE OF BUILDING SHALL BE WRAPPED WITH 1-1/2" EXTERNAL INSULATION AND 0.016" STUCCO EMBOSSED ALUMINUM JACKETING (IN ADDITION TO BEING LINED AS SPECIFIED ABOVE).
- COORDINATE LOCATION OF ALL DIFFUSERS, GRILLES AND REGISTERS TO BE SYMMETRICAL WITH RESPECT TO LIGHTS AND CEILING GRIDS. SEE REFLECTED CEILING PLAN AND LIGHTING PLAN.
- BEFORE CONTRACTOR ORDERS ANY GRILLES, REGISTERS OR DIFFUSERS, CONTRACTOR SHALL VERIFY THE CEILING CONSTRUCTION IN ALL AREAS OF THE PROJECT. IF GRILLES, REGISTERS OR DIFFUSERS SPECIFIED ARE NOT COMPATIBLE WITH THE TYPE OF CEILING CONSTRUCTION, THE CONTRACTOR SHALL ORDER PROPER TYPE OF GRILLE, REGISTER OR DIFFUSER TO BE COMPATIBLE WITH THE CEILING.
- PROVIDE FIRESTOP AT ALL PIPING PENETRATIONS OF FIRE RATED WALLS.
- THE SPACE ABOVE THE CEILING IS SERVING AS A RETURN AIR PLENUM. ALL AIR BEING SUPPLIED SHALL BE PROVIDED WITH RETURN AIR PATH BACK TO ITS ORIGIN. PROVIDE IN WALLS EXTENDING THROUGH CEILING AND UP TO STRUCTURE. RETURN AIR OPENINGS EQUAL TO 1 SQ. FT. PER 500 CFM OF AIR BEING RETURNED. UNLESS OTHERWISE NOTED, PROVIDE WITH FIRE DAMPER IN FIRE RATED WALL.
- COORDINATE THE LOCATIONS OF ALL DUCTWORK WITH ANY PLUMBING LINES AND ELECTRICAL CONDUIT. THE SPACE ABOVE THE CEILING IS LIMITED. IN THE EVENT THAT ANY DUCT CANNOT BE ROUTED AS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL MODIFY THE DUCT AS REQUIRED, MAINTAINING THE SAME NET FREE AREA AS THE DESIGNED DUCT. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT SHOWING THE PROPOSED CHANGES FOR APPROVAL. THIS SHALL BE DONE AT NO COST TO THE OWNER.
- CLEAR SPACE ALLOWANCE FOR ALL DUCTWORK IS VERY MINIMAL AND WILL REQUIRE CAREFUL COORDINATION WITH OTHER TRADES. VERIFY ALL DIMENSIONS BOTH ON THE DRAWINGS AND ON SITE BEFORE LAYING OUT, CUTTING, AND FABRICATING THE WORK. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHEET METAL WORK THAT IS CUT AND FABRICATED FROM THE CONTRACT DRAWINGS WITHOUT DIMENSIONAL VERIFICATION. MECHANICAL CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR ALL DUCT OFFSETS REQUIRED TO AVOID STRUCTURAL ELEMENTS AND CHANGES IN CEILING HEIGHTS.
- PROVIDE ALL EQUIPMENT WITH ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES (WHERE APPLICABLE) AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.
- MECHANICAL CONTRACTOR SHALL KEEP UPDATED AS-BUILT DRAWINGS ON SITE FOR REVIEW DURING CONSTRUCTION. PROVIDE AS-BUILT DRAWINGS TO OWNER AFTER CONSTRUCTION HAS BEEN COMPLETED.
- COORDINATE WORK WITH OTHER TRADES TO MINIMIZE CONFLICTS.

MARK	DATE	DESCRIPTION	APPROVED	ARCHITECTURAL	ELECTRICAL	MECHANICAL	PLUMBING
	07/20/2018						
<b>STAMP</b>							
<b>ROCK GAP</b> CONSULTANT P E T E R S E N							
<b>INDIAN HEALTH SERVICE</b> 4101 Indian School Road NE Albuquerque, New Mexico 87110							
<b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY RENOVATION & ADDITION MECHANICAL SYMBOLS & LEGEND							
DRWN BY VICUNA							
CHKD BY BEST							
SCALE 1/8" = 1'-0"							
DATE 07/20/2018							
M-1							
PROJECT NUMBER 117043							
SHEET of							



GENERAL NOTES

1. THESE DRAWING NOTES ACCOMPANY THE PUBLISHED CONSTRUCTION DOCUMENT SPECIFICATION BOOK (PROJECT MANUAL).
2. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS.
3. ALL SUBCONTRACTORS SHALL BE LICENSED, EXPERIENCED, AND THOROUGHLY KNOWLEDGEABLE IN THEIR RESPECTIVE AREAS OF THE CONSTRUCTION INDUSTRY AND SHALL PERFORM IN A RESPONSIBLE MANNER WITH ESTABLISHED CONSTRUCTION SEQUENCE, SHALL RECOGNIZE THE PRIORITY OF THE CONSTRUCTION DOCUMENTS, AND SHALL INFORM THE PRIME CONTRACTOR OF POTENTIAL PROBLEMS WHEN THE CONSTRUCTION DOCUMENTS ARE UNCLEAR OR INCONSISTENT.
4. SUBCONTRACTORS SHALL BE RESPONSIBLE TO NOTIFY THE PRIME CONTRACTOR OF DISCREPANCIES OR CONFLICTS IN THE CONSTRUCTION DOCUMENTS FOUND DURING BIDDING AND/OR PRIOR TO PERFORMING THE WORK.
5. EXAMINATION OF BIDDING DOCUMENTS.

A. EACH BIDDER SHALL EXAMINE THE BIDDING DOCUMENTS CAREFULLY, AND NOT LATER THAN SEVEN (7) DAYS PRIOR TO THE DATE OF RECEIPT OF BIDS, SHALL MAKE WRITTEN REQUEST TO THE ARCHITECT FOR INTERPRETATION OR CORRECTION OF ANY DISCREPANCIES, AMBIGUITIES, INCONSISTENCIES, OR ERRORS THEREIN WHICH HE MAY DISCOVER. THE ARCHITECT WILL ISSUE ANY INTERPRETATION OR CORRECTION AS AN ADDENDUM. ONLY A WRITTEN INTERPRETATION OR CORRECTION BY ADDENDUM SHALL BE BINDING. NO BIDDER SHALL RELY UPON INTERPRETATIONS OR CORRECTIONS GIVEN BY ANY OTHER METHOD. IF DISCREPANCIES AMBIGUITIES, INCONSISTENCIES, OR ERRORS ARE NOT COVERED BY ADDENDUM OR WRITTEN DIRECTIVE, CONTRACTOR SHALL INCLUDE IN HIS BID, LABOR MATERIALS AND METHODS OF CONSTRUCTION RESULTING IN HIGHER COST. AFTER AWARD OF CONTRACT, NO ALLOWANCE OR EXTRA COMPENSATION WILL BE MADE ON BEHALF OF THE CONTRACTOR DUE TO HIS FAILURE TO MAKE THE WRITTEN REQUESTS AS DESCRIBED ABOVE.

B. FAILURE TO REQUEST CLARIFICATION DURING THE BID PERIOD OF ANY INADEQUACY, OMISSION, OR CONFLICT WILL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES. THE SIGNING OF THE CONTRACT WILL BE CONSIDERED AS IMPLICITLY DENOTING THAT THE CONTRACTOR HAS A THOROUGH COMPREHENSION OF THE FULL INTENT AND SCOPE OF THE CONSTRUCTION CONTRACT DRAWINGS AND SPECIFICATIONS.
6. PROVIDE A BASE BID WHICH SHALL INCLUDE ONLY SPECIFIED EQUIPMENT OR EQUIPMENT LISTED AS EQUIVALENT. NO SUBSTITUTIONS FOR THE LISTED EQUIPMENT SHALL BE ALLOWED IN THE BASE BID.

A. THE MANUFACTURER OF EQUIPMENT OR MATERIALS FIRST NAMED ON THE DRAWINGS IS THE BASIS OF DESIGN. OTHER MANUFACTURERS LISTED ARE CONSIDERED GENERAL EQUIVALENTS ONLY.

B. COORDINATION OF GENERAL EQUIVALENTS AND SUBSTITUTIONS: WHERE CONTRACT DOCUMENTS PERMIT SELECTION FROM SEVERAL GENERAL EQUIVALENTS, OR WHERE SUBSTITUTIONS ARE AUTHORIZED, COORDINATE CLEARANCE AND OTHER INTERFACE REQUIREMENTS WITH MECHANICAL AND OTHER WORK.

1) PROVIDE NECESSARY ADDITIONAL ITEMS SO THAT SELECTED OR SUBSTITUTED ITEM OPERATES EQUIVALENT TO THE BASIS OF DESIGN AND PROPERLY FITS IN THE AVAILABLE SPACE ALLOCATED FOR THE BASIS OF DESIGN.

2) PROVIDE ALL FEATURES WHICH ARE STANDARD ON THE BASIS OF DESIGN PLUS ANY SPECIFIED OPTIONS.

3) BE RESPONSIBLE FOR ASSURING THAT PIPING, CONDUIT, DUCT, FLUE, AND OTHER SERVICE LOCATIONS FOR GENERAL EQUIVALENTS OR SUBSTITUTIONS FOR THE BASIS OF DESIGN, NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING THERMOSTAT INSTALLATION.
7. INASMUCH AS DESIGN FOR REMODEL AND/OR REHABILITATION REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE ENGINEER CANNOT ASSURE THE OWNER OR THE CONTRACTOR THAT THE PROFESSIONAL CONSULTING SERVICES HEREIN ENCOMPASS ALL CONTINGENCIES. FIELD COORDINATION DURING CONSTRUCTION IS IMPERATIVE. MAKE REASONABLE ALLOWANCES FOR UNSEEN CONDITIONS.
8. THE EXISTING BUILDING WILL BE OCCUPIED BY THE OWNER DURING CONSTRUCTION. CONTINUED OPERATION OF THE BUILDING SHALL NOT BE HINDERED BY THIS SYSTEM. ACCOUNT FOR ALL ADDITIONAL COSTS WHICH MAY BE INCURRED DUE TO THE DIFFICULTY OF WORKING OVER AND AROUND EMPLOYEES, FURNITURE, EQUIPMENT, ETC.; AND DUE TO THE HOURS OF THE DAY IN WHICH AN AREA MAY BE ACCESSIBLE WHEN COMPLYING HIS BID.
9. BE RESPONSIBLE TO FIELD VERIFY EXISTING EQUIPMENT OR DUCTWORK REMAINING TO BE CONNECTED TO NEW OR EXISTING SYSTEMS. PROVIDE DUCTWORK, PIPING, CONTROLS, DIFFUSERS, ETC., AS REQUIRED TO RESTORE CONTINUITY OF SYSTEM (S), OR TO MAKE NEW WORK MEET EXISTING CONDITIONS, WHETHER INDICATED OR NOT.
10. SUBCONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITY SERVICES AND COORDINATE AS REQUIRED BY THEIR RESPECTIVE AREA OF THE CONSTRUCTION, NOTIFYING THE PRIME CONTRACTOR OF VARIATIONS OR CONFLICTS.
11. IF NOT SPECIFICALLY DEFINED IN THESE CONSTRUCTION DOCUMENTS, MATERIALS AND/OR EQUIPMENT SHALL BE IDENTIFIED BY THE SUBCONTRACTOR WITH SUFFICIENT TIME TO ALLOW SELECTION, PURCHASE, AND DELIVERY TO MAINTAIN CONSTRUCTION SCHEDULE.
12. PROVIDE MECHANICAL DEMOLITION AS REQUIRED. REFER TO DEMOLITION DRAWINGS FOR LOCATION AND EXTENT OF DEMOLITION REQUIRED. VISIT SITE PRIOR TO BID TO DETERMINE EXTENT OF WORK INVOLVED. EXISTING FIXTURES, MECHANICAL EQUIPMENT, ETC., BEING REMOVED SHALL BE RETURNED TO THE OWNER. DISPOSE OF ALL REMOVED PIPING, DUCTWORK, ETC., UNLESS NOTED OTHERWISE. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED, UNLESS OTHERWISE NOTED.
13. ALL DUCTWORK, DIFFUSERS, PIPING, FIXTURES, AND EQUIPMENT SHOWN IN LIGHT LINE WEIGHT ARE EXISTING, NEW INDICATED BY HEAVIER LINE WEIGHT, EXCEPT WHERE NOTED. PIPES, DUCTWORK, EQUIPMENT, ETC. TO BE REMOVED, ARE SHOWN HATCHED.
14. OFFSET PIPING, DUCTWORK, ETC. AS NECESSARY TO ACCOMMODATE STRUCTURE, BEAMS, AND COLUMNS, AND EXISTING EQUIPMENT.
15. ALL EXISTING SUPPORT RODS AND STRAPS NOW SUPPORTING DUCTS, PIPES, AIR TUBING, ELECTRICAL, CONDUIT, ETC. THAT ARE REMOVED TO ALLOW ROOM FOR INSTALLATION OF NEW EQUIPMENT SHALL BE RELOCATED AND REINSTALLED, OR REPLACED IF DAMAGED.
16. ALL "CAPPED" SANITARY AND VENT LINES SHALL BE RECONNECTED OR RE-ROUTED AS NECESSARY TO PREVENT "DEAD-ENDS" IN THE PIPING. ALL PIPING SHALL DRAIN TO ACTIVE SANITARY WASTE LINES AND ALL BRANCHES WITH TRAPS SHALL BE ADEQUATELY VENTED.
17. CAP ALL DEMOLISHED AND ABANDONED DUCT TAKE-OFFS AT TRUNK DUCT.
18. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE ARCHITECT, OWNER, AND ENGINEER.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM HIS/HER WORK IN CONFORMANCE

- WITH ALL APPLICABLE CODES, ORDINANCES AND LIFE SAFETY FEATURES AS REQUIRED BY LOCAL, STATE, OR NATIONAL AUTHORITIES. THE CONTRACTOR SHALL VERIFY WITH THE ARCHITECT IF MODIFICATION OF HIS/HER WORK IS REQUIRED FOR COMPLIANCE.
20. SUBMIT RECORD DOCUMENTS TO ARCHITECT. DOCUMENTS SHALL INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, RE-ROUTINGS, ETC.
21. SYSTEMS SHALL BE COMPLETE, OPERABLE, AND READY FOR CONTINUOUS OPERATION PRIOR TO ACCEPTANCE BY THE OWNER.
22. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. PERFORM AT A MINIMUM ALL CODE REQUIRED TESTS OR SYSTEMS. IF TESTS OF WORK ARE DEFECTIVE, CONTRACTOR SHALL MAKE CORRECTIONS NECESSARY AT NO ADDITIONAL COST TO OWNER.
23. ALL MATERIALS AND/OR EQUIPMENT SHALL BE HANDLED AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
24. SUBMIT ALL MECHANICAL DIVISION SHOP DRAWING AND PRODUCT DATA AT ONE TIME. SUBMITTAL SHALL BE BOUND AND INDEXED IN A NEAT AND ORDERLY MANNER. PARTIAL SUBMITTALS WILL BE REJECTED.
25. FAILURE TO ORDER, OR RELEASE ORDER FOR MATERIALS AND/OR EQUIPMENT WILL NOT BE ACCEPTED AS A REASON TO SUBSTITUTE ALTERNATE MATERIALS, EQUIPMENT, OR INSTALLATION METHODS.
26. PROVIDE NECESSARY TRENCHING, BACKFILL, EXCAVATION, SUPPORTS, SAWCUTTING AND PATCHING, CONCRETE/PAVING, ETC., AS REQUIRED. BACKFILL TRENCHES IN 6" LAYERS AND TO 90% COMPACTION AND PATCH TO MATCH EXISTING GRADE.
27. REPAIR ALL ACCIDENTAL OR INTENTIONAL DAMAGE TO WATCH EXISTING CONSTRUCTION WITH NO NOTICEABLE DIFFERENCE IN CONTINUITY, APPEARANCE OR FUNCTION.
28. COORDINATE ALL PENETRATIONS OF THE FLOOR SLAB PRIOR TO COMMENCING WORK. UTILIZE X-RAY AND VISUAL INVESTIGATION OF EXISTING CONDITIONS AS REQUIRED PRIOR TO DRILLING OR CUTTING. COORDINATE ALL NEW PENETRATIONS WITH OTHER DIVISIONS OF THE WORK. ALL CONTRACTORS ARE INDIVIDUALLY RESPONSIBLE FOR ALL PENETRATIONS REQUIRED BY THEIR DIVISIONS.
29. PROVIDE 4" HIGH CONCRETE EQUIPMENT PADS BENEATH FLOOR MOUNTED MECHANICAL EQUIPMENT, IN ADDITION TO ANY BASE ASSEMBLIES REQUIRED OR RECOMMENDED BY THE MANUFACTURER.
30. FIRE STOPPING REQUIREMENT: PENETRATIONS THROUGH RATED WALLS AND FLOORS SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR FIRE STOPS ASTM-E-814. ACCEPTABLE MATERIALS INCLUDE: DOW CORNING RTV FIRE STOP FOAM FOR BARE PIPE, METAL CONDUIT, AND ELECTRICAL CABLE; 3M FIRE DAM 150 CAULK FOR BARE PIPE, METAL CONDUIT, AND BUILDING CONSTRUCTION GAPS; 3M CP-25 CAULK AND FS-195 INTUMESCENT STRIPS FOR INSULATED PIPES, PLASTIC PIPE OR CONDUIT, AND ELECTRICAL CABLE. SUBMIT UL LISTED APPLICATION DATA FOR EACH TYPE OF PENETRATION ENCOUNTERED.
31. ALL FLOOR DRAINS CONNECTED TO THE SEWER SYSTEM SHALL BE EQUIPPED WITH ELASTOMERIC TRAP GUARDS, JR. SMITH 2892 OR EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
32. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR ALL CEILING PENETRATIONS AND AIR DEVICE LOCATIONS.
33. CAREFULLY VERIFY ELECTRICAL SERVICE VOLTAGE AND PHASE AVAILABLE.
34. MOUNT ALL STATS AT 48" A.F.F., UNLESS NOTED OTHERWISE. COORDINATE LOCATION WITH WALL FINISH, AND TO AVOID CASEWORK, FURNITURE, DOOR SWINGS, HEAT SOURCES, AND EXTERIOR WALLS. NOTIFY ENGINEER OF ANY CONFLICTS PRIOR TO BEGINNING THERMOSTAT INSTALLATION.
35. SUBMIT A WRITTEN BALANCE REPORT BY A NEBB OR AABC CERTIFIED BALANCING CONTRACTOR. BALANCING PROCEDURES SHALL BE IN ACCORDANCE WITH NEBB OR AABC GUIDELINES FOR PROPORTIONAL BALANCE. SUBMIT REPORT ON STANDARD NEBB FORMS OR SUBMIT FORMS FOR REVIEW PRIOR TO BALANCING. MEASUREMENTS SHALL INCLUDE ALL MOTOR AMPERAGE AND VOLTAGE READINGS; MOTOR AND FAN RPM'S; STATIC PRESSURE AT INLET AND OUTLET OF ALL PACKAGED EQUIPMENT, FANS, COILS, AND FILTERS; PILOT TUBE MEASUREMENT OF SUPPLY, EXHAUST, RETURN, AND OUTSIDE AIR MAIN DUCTS, AT MINIMUM INSIDE AIR, AND 100% (ECONOMIZER) OUTSIDE AIR; VELOCITY DISTRIBUTION ACROSS THE FACE OF FILTERS; AIR INLET AND OUTLETS; WATER FLOW AT ALL FLOW MEASUREMENT STATIONS; INLET AND OUTLET PRESSURE AT PUMPS WITH FLOW CALCULATED FROM THE PUMP CURVE; WATER FLOW, TEMPERATURE DROP, AND PRESSURE DROP AT ALL COILS.

A. PROVIDE BELTS AND SHEAVES AS REQUIRED FOR DRIVE CHANGES TO ADJUST FAN SPEED.

B. ADJUST FLOWS TO WITHIN 10% OF REQUIRED QUANTITY. WHERE ROOM AIR PRESSURE RELATIONSHIP ARE REQUIRED TO BE MAINTAINED AS SHOWN BY A DIFFERENTIAL OF SUPPLY AND EXHAUST/RETURN OR BY NOTE, ADJUST SUPPLY TO WITHIN 10% AND THEN ADJUST EXHAUST/RETURN TO PROVIDE THE INDICATED ROOM PRESSURE. IF ACTUAL QUANTITY IS LESS THAN 90%, INVESTIGATE CAUSE, ATTEMPT TO RECTIFY AND NOTIFY ENGINEER. SUBMITTAL OF BALANCE REPORT WITH LESS THAN REQUIRED FLOWS WITHOUT EXPLANATION IS CAUSE FOR REJECTION OF REPORT.

C. SUBMIT THREE (3) COPIES OF ALL SUBMITTALS IN ADDITION TO ANY REQUIRED BY THE CONTRACTOR AND HIS SUPPLIERS. THESE COPIES SHALL BE RETAINED BY THE OWNER, ARCHITECT, AND ENGINEER.
36. DUCTWORK: (LOW VELOCITY)

A. FLEXIBLE DUCTWORK SHALL HAVE AN OUTER JACKET OF FIRE RETARDANT POLYETHYLENE VAPOR BARRIER MATERIAL, UNIFORM LAYER OF FIBERGLASS INSULATION, HIGH-STRENGTH GALVANIZED STEEL, HELIX ENCAPSULATED IN REINFORCED "RIP STOP" ALUMINUM LAMINATE, INTERIOR CORE, UL LISTED AND LABELED, CLASS 1 AIR DUCT, WORKING PRESSURE RATING, POS. 6", NEC. 4", FLEXMASTER TYPE 5 OR EQUIVALENT. SUBMIT SAMPLES TO DETERMINE EQUIVALENCE.

B. FLEXIBLE CONNECTION: EQUIVALENT TO VENTFAB, FIREPROOF GLASS CLOTH, 10" W.C. RATED.

C. ROUND DUCT: SPIRAL SEAM, GALVANIZED STEEL. DIE STAMPED OR 5 GORE ELBOWS, "SNAP-LOCK", LONGITUDINAL SEAM DUCT, OR ADJUSTABLE FITTINGS ARE ACCEPTABLE ON INDIVIDUAL, GRILLE/DIFFUSER RUNOUTS ONLY.

D. DUCTWORK: 560 GALVANIZED SHEET STEEL, LOCK FORMING QUALITY, CONSTRUCTED TO THE LATEST EDITION OF SMACNA "HVAC DUCT CONSTRUCTION STANDARDS"; +/- 1" W.C. PRESSURE CLASSIFICATION, SEAL CLASS "C", WITH GALVANIZED STEEL FASTENERS, ANCHORS, ANGLES, STRAPS, ETC.

E. SEAL ALL SEAMS (LONGITUDINAL AND TRANSVERSE) AIRTIGHT WITH UNITED MCGILL "UNI-GRIP" UL LISTED, WATER BASED, NON-HARDENING, ELASTIC SEALANT OR EQUIVALENT. TAPE NOT ALLOWED.
37. PROVIDE 1/2" GALVANIZED MESH SCREEN ON ALL COMBUSTION AIR DUCTS OR OPENINGS, AND ALL OPEN END RETURN AND EXHAUST DUCTS.

38. ALL DUCTWORK DIMENSIONS ARE INSIDE FREE AREA DIMENSIONS.
39. DUCTWORK NOTES:

A. DIFFUSER NECK SIZE IS SAME AS FLEXIBLE DUCT SIZE.

B. UNLESS OTHERWISE NOTED, ALL CHANGES IN DIRECTION SHALL BE MADE WITH RADIUS ELBOWS WITH RADIUS TO CENTERLINE EQUAL TO 1.5 DUCT WIDTH.

1) WHERE REQUIRED FOR SPACE CONSTRAINTS, PROVIDE SQUARE THROAT ELBOWS WITH SINGLE WIDTH (NON-AIRFOIL) TURNING VANES.

2) FOR DUCT DEPTHS OF 36" OR LESS, PROVIDE MANUFACTURED SINGLE WIDTH (NON-AIRFOIL) TURNING VANES, WITH SPACING IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STANDARDS FOR "STANDARD SPACING". USE DOUBLE THICKNESS BLADES FOR DUCT DEPTHS GREATER THAN 36". USE NO TRAILING EDGES.

C. ALL FLEXIBLE DUCTS SHALL NOT EXCEED EIGHT INCHES IN LENGTH.
40. SUPPORT PIPE WITH ROD AND CLEVIS, RING HANGERS, TRAPEZE, OR CLAMPS. NO PIPE TAPE OR STRAPPING ALLOWED. ALL HANGERS SHALL BE SIZED FOR OD OF INSULATION. IF ANY, PROTECT INSULATED LINES WITH 20 GA SHEET METAL SHIELDS FOR PIPING 1-1/2" AND LESS. PROVIDE CALCIUM SILICATE INSULATION INSERTS FOR ALL INSULATED PIPING 2" AND LARGER. MAINTAIN VAPOR BARRIER ON ALL COLD LINES. ISOLATE BARE COPPER LINES FROM HANGERS WITH VIBRASORB OR EQUIVALENT, COPPER COATED HANGERS ARE NOT SUFFICIENT. WRAPPING PIPE WITH TAPE NOT ACCEPTABLE.
41. PROVIDE SHOCK ARRESTERS AT ALL DOMESTIC HOT AND COLD WATER BRANCHES SERVING FIXTURES AND EQUIPMENT WITH QUICK CLOSING VALVES. SUCH FIXTURES AND EQUIPMENT INCLUDES FLUSH VALVE, WATER CLOSETS, ICE MACHINES, STERILIZER SUPPLY, AND CLINICAL SERVICE SINKS. SHOCK ARRESTERS SHALL BE CONSTRUCTED WITH A PISTON IN A SEALED COPPER TUBE CHAMBER, AND APPROVED FOR INSTALLATION WITHIN WALLS WITHOUT ACCESS PANELS. GLOUX CHIEF "HYDRARRESTER" OR EQUIVALENT, BELLOW TYPE NOT ACCEPTABLE. REFER TO PDI WH-201 FOR SIZING AND PLACEMENT.
42. COPPER PIPE VALVES AND SPECIALTIES

A. GATE VALVES - BRONZE, CLASS 125, 200 LB. W.O.G.

B. BALL VALVES - BRONZE, CLASS 125, 600 LB. W.O.G.

C. CHECK VALVES - BRONZE, CLASS 125, 200 LB. W.O.G.

D. BALANCING VALVES - 125 PSI W.P. FOR 250 DEGREE FARENHEIGHT SERVICE TIGHT SHUTOFF, TOUR AND ANDERSON STA, ARMSTRONG CBY, GERAND, OR FLOWSET, BELL AND GOSSETT CIRCUIT SETTER

E. DIRECT UNIONS: FURNISH AND INSTALL A DIELECTRIC UNION AT EACH CONNECTION BETWEEN DISSIMILAR METALS.
43. MATERIALS, SOIL, WASTE, AND VENT PIPING (INSIDE BUILDING)

F. LINES ABOVE GROUND--STANDARD WEIGHT, C.I. SOIL PIPE, AND FITTINGS. NO HUB WITH HEAVY DUTY CLAMPS. UP THROUGH 2-1/2" MAY BE STANDARD WEIGHT, GALVANIZED STEEL PIPE WITH BLACK, W.I. DRAIN FITTINGS, OR DWV COPPER TUBE WITH DWV FITTINGS AND 95-5 NO LEAD SOLDER.

G. CONDENSATE DRAIN LINES INSIDE BUILDING TO BE COPPER TUBE WITH 95-5 NO LEAD SOLDER.

H. CONDENSATE DRAIN LINES OUTSIDE BUILDING TO BE PVC WITH UV-PROTECTIVE COATING, LATEX PAINT OR EQUAL.
44. GAS PIPING--SCHEDULE 40 BLACK STEEL PIPE, WELDED FITTINGS WITH ALL PIPING COATED AND WRAPPED ON BURIED PIPE.
45. GAS VALVES--NON-LUBRICATED BALLSTYLE VALVE WITH RESILIENT SEATS, AND ADJUSTABLE GLAND PACKING NUT, AGA AND UL LISTED FOR NATURAL GAS SERVICE.
46. PROVIDE EXPANSION JOINTS OR LOOPS ON ALL CHILLED, AND HEATING WATER PIPING RUNS IN EXCESS OF 50 FEET AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
47. GRADE AND VALVE ALL HEATING, AND CHILLED WATER PIPING WITH 3/4" HOSE END VALVES TO PERMIT COMPLETE DRAINAGE OF THE SYSTEM. VENT ALL HIGH POINTS IN EQUIPMENT ROOMS AS NECESSARY WITH AUTOMATIC AIR VENTS PIPED TO CONVENIENT DRAIN. ALL HIGH POINTS IN SYSTEM OUTSIDE OF EQUIPMENT ROOMS WITH COMBINATION AUTOMATIC/MANUAL AIR VENTS AS REQUIRED TO RELIEVE AIR IN THE SYSTEM.
48. DRAIN PAN PIPING--NOT BURIED--TYPE "M" COPPER, WROUGHT COPPER FITTINGS, AND 95-5 SOLDER.
49. REFRIGERATION PIPING--TYPE "L", ACR GRADE COPPER, CLEANED, DEHYDRATED, AND CAPPED AT THE FACTORY. USE WROUGHT COPPER FITTINGS AND HARD SOLDER HAVING A MINIMUM MELTING POINT OF 1100 DEGREE F FOR BURIED LINES, 95-5 SOLDER FOR NON-BURIED LINES. VALVES AND SPECIALTIES SHALL BE STANDARD BRASS OR BRONZE VALVES FOR REFRIGERATION SERVICE.
50. SUPPORT EACH AIR OR REFRIGERATION COMPRESSOR, BASE MOUNTED PUMP, AIR HANDLING UNIT AND FAN BY MASON INDUSTRIES OR EQUIVALENT SPRING TYPE SEISMICALLY RESTRAINED VIBRATION ISOLATORS.
51. INSULATE ALL DOMESTIC HOT WATER, DOMESTIC HOT WATER RECIRCULATION, AND DOMESTIC COLD PIPING WITH U.I. APPROVED, WHITE, ALL SERVICE, GLASS FIBER, SNAP-ON, PIPE INSULATION. INSULATE FITTINGS WITH GLASS FIBER BLANKET INSULATION AND PREMOLDED P.V.C. COVERS. ALL MATERIALS SHALL HAVE A SMOKE DEVELOPED RATING OF 50 OR LESS AND A FLAME SPREAD RATING OF 25 OR LESS. INSULATION SHALL PASS UNINTERRUPTED THROUGH HANGERS. VAPOR BARRIERS SHALL BE CONTINUOUS, AND SEALED WITH "NON-BREATHING" MASTIC ON COLD PIPING. ALL RAW EDGES OF INSULATION SHALL BE NEATLY TRIMMED AND SEALED WITH MASTIC.

A. INSULATION THICKNESS:

1) REFER TO SPECIFICATIONS.
52. EQUIPMENT LABELS: LABEL ALL PIPING AND EQUIPMENT. PROVIDE FULL BAND OR STRIP TYPE MARKERS AND FLOW ARROWS ON PIPING. PROVIDE ENGRAVED PLASTIC VALVE TAGS WITH VALVE NUMBER AND ATTACH WITH STANDARD CHAIN OR S-HOOKS. PROVIDE ENGRAVED PLASTIC SIGN ON OR NEAR SPECIFIED EQUIPMENT.
54. FIRE PROTECTION DESIGN/BUILD REQUIREMENTS:

A. MODIFY THE EXISTING AUTOMATIC SPRINKLER SYSTEM AS NEEDED TO FULLY SPRINKLE REMODELED AREA OF BUILDING. COMPLETE DRAWINGS, SPECIFICATIONS, AND DETAILS SHALL BE SUBMITTED BY THE FIRE SPRINKLER DESIGN-BUILD CONTRACTOR.

B. THE FIRE SPRINKLER CONTRACTOR SHALL SERVE AS THE ENGINEER OF RECORD FOR ALL WORK PERFORMED UNDER THIS DIVISION. IF REQUIRED BY THE AUTHORITY HAVING JURISDICTION, (A.H.J.) SUBMIT COMPLETE FIRE SPRINKLER SYSTEM SHOP DRAWINGS AND HYDRAULIC CALCULATIONS, GENERATED BY CONTRACTOR. SHOP DRAWINGS SHALL BE A MINIMUM 1/8" SCALE, AND SHALL SHOW DEVICE AND APPLIANCE LOCATIONS, BUILDING BACKGROUND INFORMATION, ROOM OCCUPANCY DESCRIPTIONS, DOOR SWINGS, FIRE RATINGS AND FIRE PROTECTION SYSTEM LAYOUT AND DETAILS. SHOP DRAWINGS AND HYDRAULIC CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL

- ENGINEER REGISTERED IN THE STATE OF NEW MEXICO. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS TO THE BUILDING AND FIRE DEPARTMENTS AS A DEFERRED SUBMITTAL AND OBTAIN THEIR APPROVAL BEFORE SUBMISSION TO THE ARCHITECT.
- C. WHERE REQUIRED BY THE A.H.J., ALL NEW SPRINKLER HEADS SHOULD HAVE THE CONNECTING MAIN AND BRANCH PIPE SIZES SHOWN.

1) SHOW THE CONNECTING MAIN AND BRANCH PIPE SIZES FOR ALL NEW SPRINKLER HEADS.

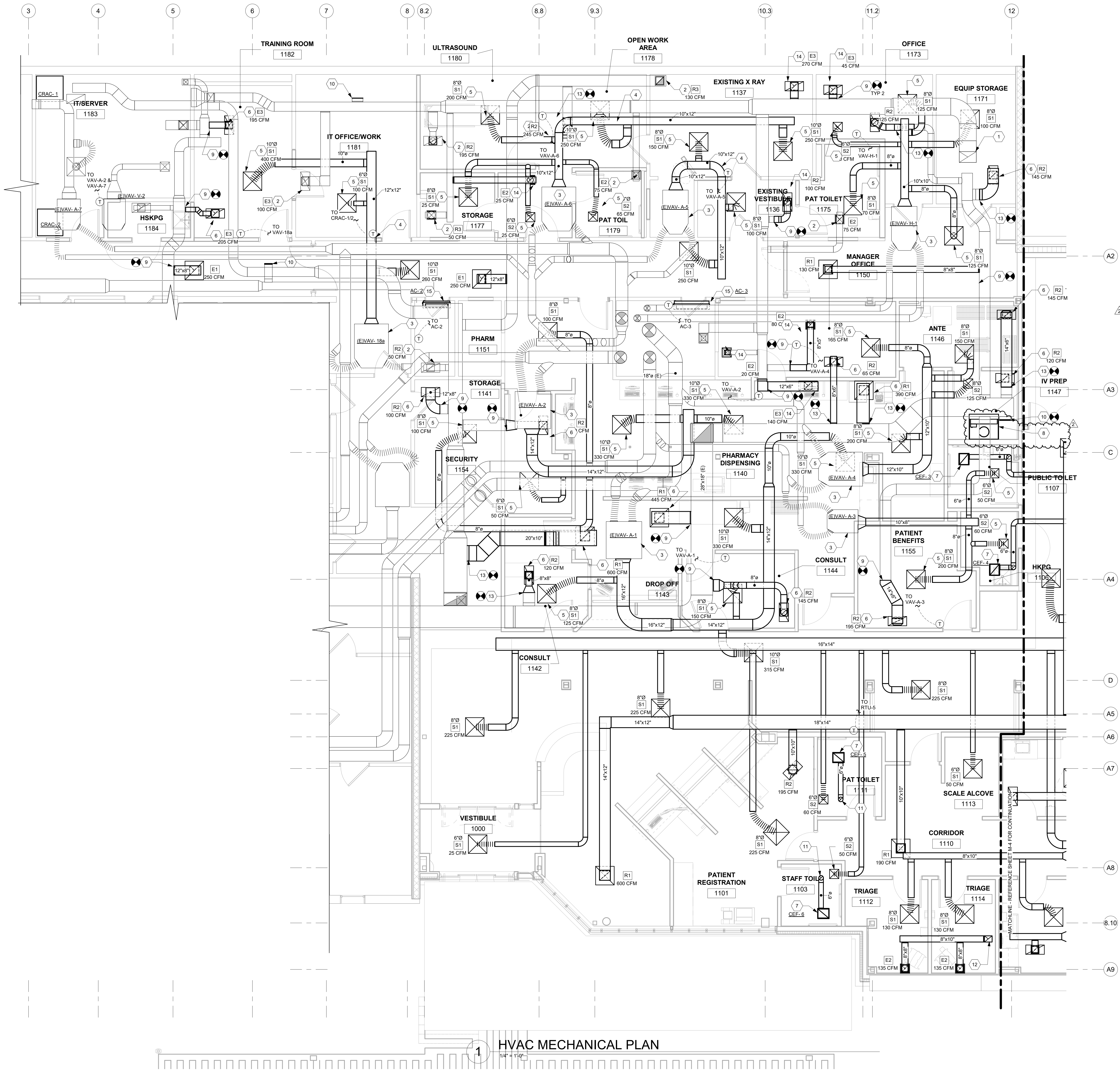
2) CONFORM TO LIGHT HAZARD OCCUPANCY REQUIREMENTS OF NFPA 13.

3) PROVIDE FLOW TEST INDICATING STATIC AND RESIDUAL PRESSURED DEVELOPED UNDER FIRE FLOW CONDITIONS AS REQUIRED BY A.H.J.
- D. EXTEND THE EXISTING SPRINKLER SYSTEM, AND ADD NEW SPRINKLER HEADS IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE CODES AND ORDINANCES AND PROJECT REQUIREMENTS TO COMPLETE THE NEW WORK.
- E. SYSTEM SHALL BE INSTALLED COMPLETE AND OPERATIONAL, INCLUDING WATER FLOW INDICATOR, CONNECTIONS TO EXISTING ALARM, DRAIN PIPING, IDENTIFICATION SIGNS, ETC.
- F. WORK SHALL BE PERFORMED BY A QUALIFIED FIRE SPRINKLER INSTALLER WITH A MINIMUM OF FIVE (5) YEARS EXPERIENCE IN SIMILAR INSTALLATIONS.
- G. COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO AND DURING INSTALLATION.
- H. PROVIDE AN EXTRA STOCK OF SIX (6) SPRINKLER HEADS, THREE (3) OF EACH TYPE, AND A SPRINKLER WRENCH. SPRINKLER HEADS SHALL MATCH EXISTING IN ADJACENT AREAS.

DRWN BY VICUNA		318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY		M	
CHKD BY BEST		RENOVATION & ADDITION		C	
SCALE 1/8" = 1'-0"		MECHANICAL GENERAL NOTES		C	
DATE 07/20/2018		M-2		C	
PROJECT NUMBER 117043		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
SHEET of		DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	
		CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110		C	



\\gdm-fs-server\users\sls\ahG\Documents\20-107 IHS Mesalero MEP\_v20\_isiang\MLF.rvt



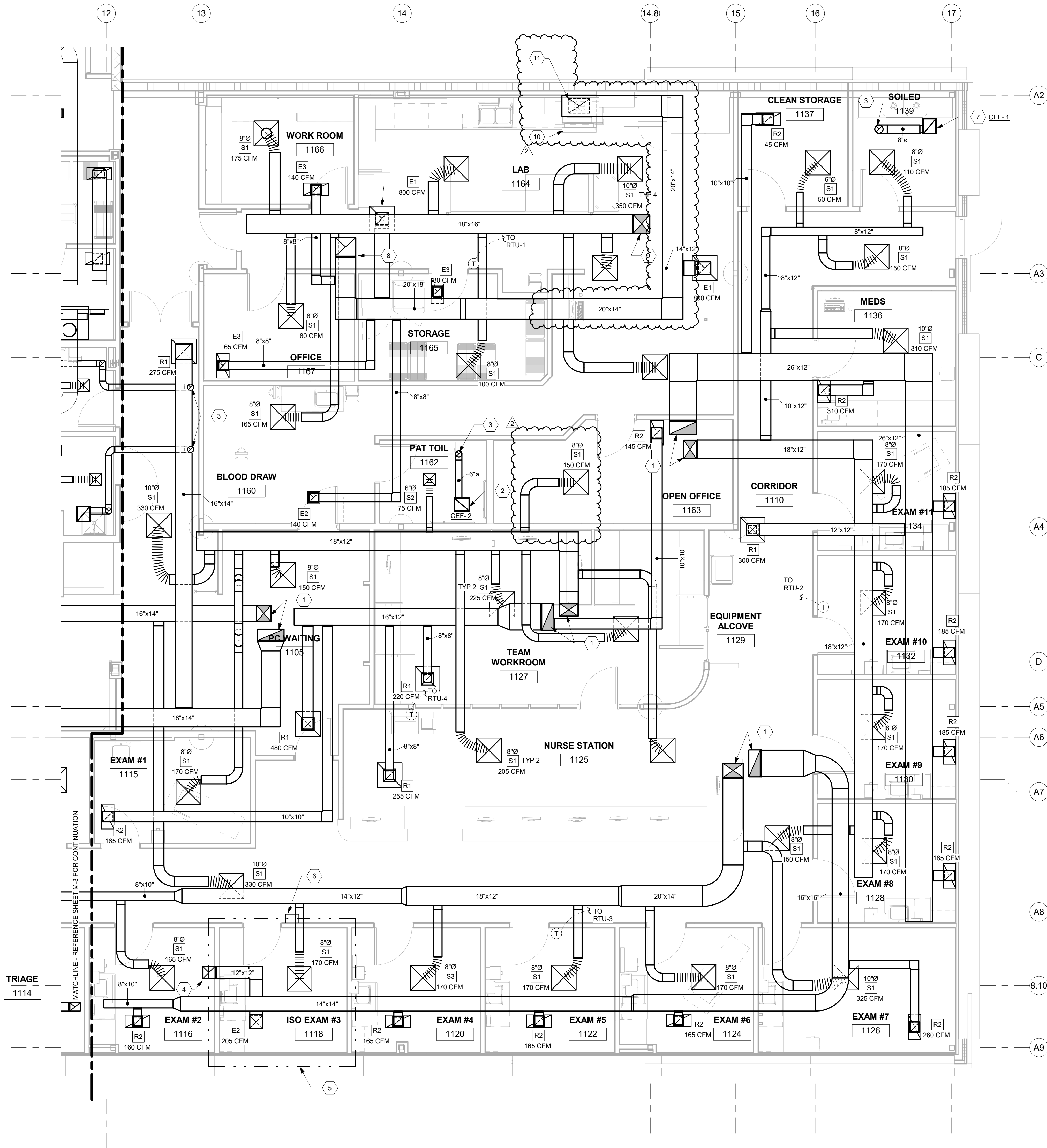
- GENERAL NOTES:**
- REFER TO M-1 FOR SYMBOLS AND LEGEND, AND M-2 FOR GENERAL NOTES.
  - REFER TO M-7 FOR DETAILS.
  - REFER TO M-8 FOR EQUIPMENT SCHEDULES.
  - ALL AIRFLOWS MEET THE REQUIREMENTS OF INDIAN HEALTH SERVICE VOLUME III HEALTH CARE FACILITIES DESIGN AND CONSTRUCTION CHAPTER 21.4 MECHANICAL GUIDELINES
- KEYED NOTES**
- EXISTING EXHAUST DUCT UP TO FAN IN PENTHOUSE.
  - REBALANCE EXISTING DIFFUSER TO AIRFLOW SHOWN.
  - EXISTING DUAL-DUCT MIXING BOX ABOVE CEILING. CONNECT NEW SUPPLY DUCT TO OUTLET OF EXISTING BOXES AS SHOWN.
  - NEW SUPPLY DUCTWORK ABOVE CEILING.
  - INSTALL NEW SUPPLY DIFFUSER. BALANCE TO AIRFLOW SHOWN.
  - INSTALL NEW RETURN GRILLE. BALANCE TO AIRFLOW SHOWN.
  - INSTALL NEW CEILING MOUNTED EXHAUST FAN. ROUTE EXHAUST DUCT TO ROOF OF NEW ADDITION.
  - OFOI RE-CIRCULATING FUME HOOD IN PHARMACY. AIREGARD MODEL NU-240-330.
  - POINT OF CONNECTION FROM EXISTING DUCT TO INSTALL NEW DUCT AND UNITS AS SHOWN ON PLAN.
  - CAP AND SEAL EXISTING EXHAUST DUCT AT TAP. AIR TIGHT FOR FUTURE CONNECTION.
  - ROUTE EXHAUST DUCT UP TO CAP ON ROOF.
  - ROUTE EXHAUST DUCT UP TO EXHAUST FAN ON ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
  - CONNECT NEW RETURN DUCT INTO EXISTING.
  - INSTALL NEW EXHAUST GRILLE. BALANCE TO AIRFLOW SHOWN.
  - DX SPLIT SYSTEM AIR CONDITIONER MOUNTED ON WALL ABOVE DOOR.

PC WAITING  
1105

MARK	DATE	DESCRIPTION	APPROVED	STAMP	PLUMBING					
02	10/14/2021	AMENDMENT 002		<div>Stamp: KYLE BEST 2025 12/20/2021 PROFESSIONAL ENGINEER Handwritten: Mike [Signature]</div>	ELECTRICAL					
ROCK GAP P E N N S Y L V A N I A										
INDIAN HEALTH SERVICE PHS - 1955										
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110										
MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 88503 OTERO COUNTY RENOVATION & ADDITION MECHANICAL PLAN - SECTION 1										
DRWN BY Martin										
CHKD BY Swiderski										
SCALE 1/4" = 1'-0"										
DATE 07/20/2018										
M-3										
PROJECT NUMBER 117043										
SHEET of										



\\gdm-fserver\users\isaiah\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiah\MLF.rvt



1 HVAC MECHANICAL PLAN - SECTION 2  
1/4" = 1'-0"

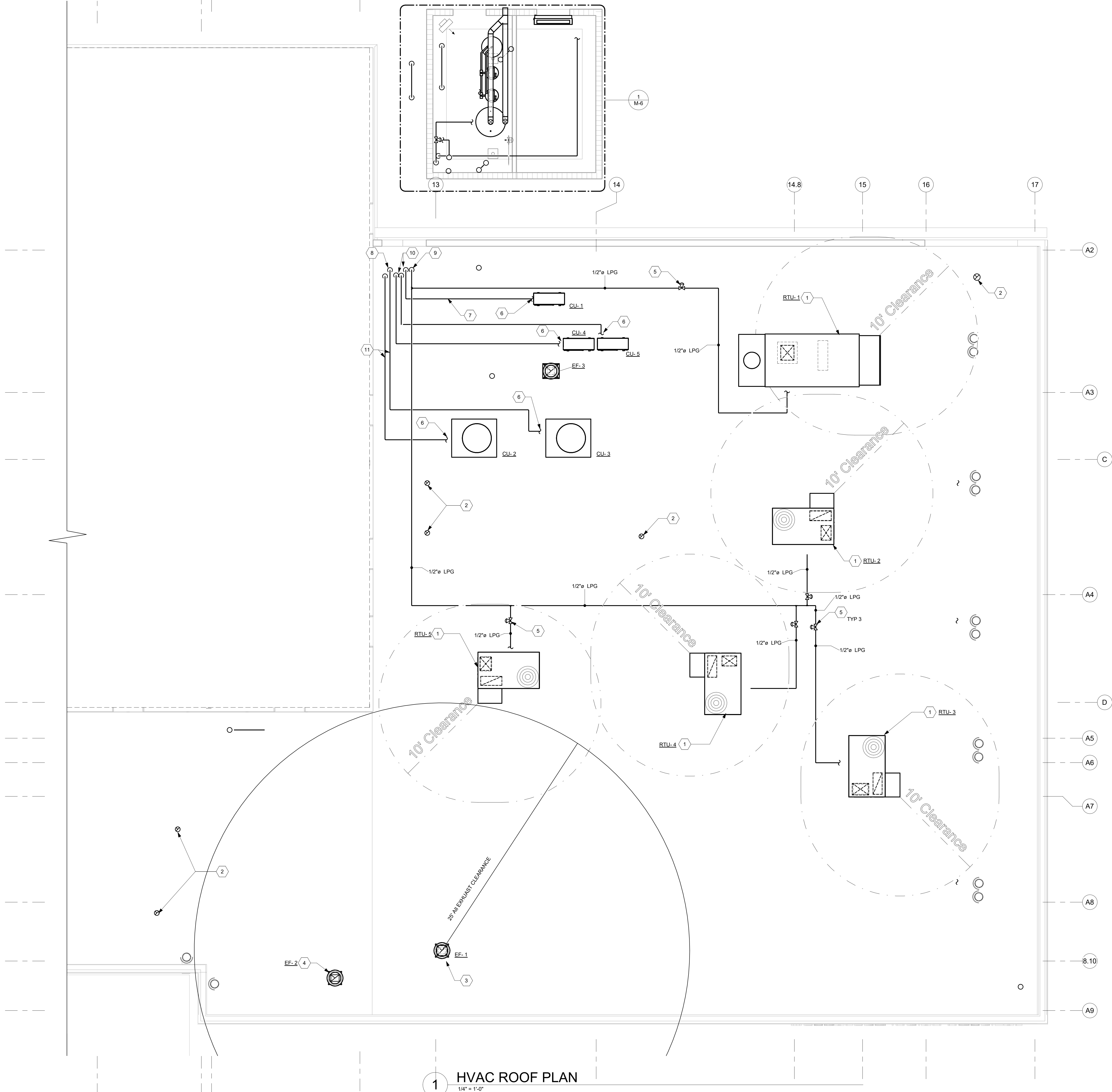
- GENERAL NOTES:**
- A REFER TO M-1 FOR SYMBOLS AND LEGEND, AND M-2 FOR GENERAL NOTES.
  - B REFER TO M-7 FOR DETAILS.
  - C REFER TO M-8 FOR EQUIPMENT SCHEDULES.
  - D ALL AIRFLOWS MEET THE REQUIREMENTS OF INDIAN HEALTH SERVICE VOLUME III HEALTH CARE FACILITIES DESIGN AND CONSTRUCTION CHAPTER 21.4 MECHANICAL GUIDELINES
- KEYED NOTES**
- 1 SUPPLY AND RETURN DUCTS DOWN FROM ROOF-TOP UNIT.
  - 2 CEILING MOUNTED EXHAUST FAN. UNIT CONTROLLED BY GRILLE MOUNTED MOTION SENSOR.
  - 3 EXHAUST DUCT UP TO CAP ON ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
  - 4 EXHAUST UP TO AII EXHAUST FAN ON ROOF. REFER TO ROOF PLAN FOR EQUIPMENT LOCATION.
  - 5 INDICATED ROOM IS AN AII AREA. PROVIDE ROOM PRESSURIZATION MONITOR AND CONTROLS.
  - 6 INSTALL ROOM PRESSURIZATION CONTROLLER AND MONITOR ON WALL. MONITOR TO BE TRIATEK FMS-1655. TIE INTO FMS FOR CONTROL OF EXHAUST FAN FLOW.
  - 7 CEILING MOUNTED EXHAUST FAN. FAN TO RUN CONTINUOUS.
  - 8 EXHAUST DUCT UP TO FAN ON ROOF. REFER TO ROOF PLAN FOR CONTINUATION.
  - 9 SUPPLY DUCT DOWN FROM ROOF-TOP UNIT.
  - 10 RELOCATED FLOOR MOUNTED BIOLOGICAL SAFETY CABINET, BAKER CO. MODEL SG-250.
  - 11 CAP 20" x 14" EXHAUST DUCT AIR TIGHT IN CEILING SPACE FOR FUTURE P.O.C.



MARK	DATE	DESCRIPTION	AMENDMENT 002	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
02	10/14/2021	07/20/2018					
<b>STAMP</b> KYLE BEST Professional Engineer No. 2655 7/20/2018							
<b>CONSULTANT</b> ROCK GAP P E T E R T E T T E ARCHITECTS							
<b>INDIAN HEALTH SERVICE</b> S H S 4151 Indian School Road NE Albuquerque, New Mexico 87110							
<b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4151 Indian School Road NE Albuquerque, New Mexico 87110							
<b>MESCALERO SERVICE UNIT</b> 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY <b>RENOVATION &amp; ADDITION</b> <b>MECHANICAL PLAN - SECTION 2</b>							
DRWN BY Martin							
CHKD BY Swiderski							
SCALE 1/4" = 1'-0"							
DATE 07/20/2018							
M-4							
PROJECT NUMBER 117043							
SHEET of							



\\gpm-fserver\users\isaiahg\Documents\20-107 IHS Mescalero MEP\_v20\_isaiahg\MLF.rvt



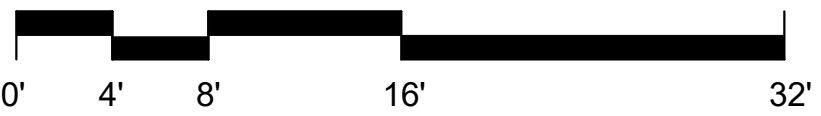
1 HVAC ROOF PLAN  
1/4" = 1'-0"

GENERAL NOTES:

- A REFER TO M-1 FOR SYMBOLS AND LEGEND, AND M-2 FOR GENERAL NOTES.
- B REFER TO M-7 FOR DETAILS.
- C REFER TO M-8 FOR EQUIPMENT SCHEDULES.
- D ALL AIRFLOWS MEET THE REQUIREMENTS OF INDIAN HEALTH SERVICE VOLUME III HEALTH CARE FACILITIES DESIGN AND CONSTRUCTION CHAPTER 21.4 MECHANICAL GUIDELINES

KEYED NOTES

- 1 PACKAGED ROOFTOP UNIT. PROVIDE UNIT WITH PROPANE. ROUTE CONDENSATE FROM UNIT TO NEAREST ROOF DRAIN. REFER TO PLUMBING ROOF PLAN FOR DETAILS. LOCATE UNIT TO MAINTAIN REQUIRED OSA CLEARANCES.
- 2 EXHAUST UP FROM FANS BELOW. INSTALL RAIN PROOF CAP ON DISCHARGE. FIELD COORDINATE FINAL PENETRATION LOCATIONS TO MAINTAIN CODE REQUIRED OSA SEPARATION DISTANCES.
- 3 EXHAUST FAN FROM ALL ROOM BELOW. FIELD COORDINATE EQUIPMENT LOCATION TO MAINTAIN CODE REQUIRED OSA SEPARATION DISTANCES.
- 4 EXHAUST FAN FROM TRIAGE ROOMS BELOW. FIELD COORDINATE EQUIPMENT LOCATION TO MAINTAIN CODE REQUIRED OSA SEPARATION DISTANCES.
- 5 PRESSURE REDUCTION VALVE (15PSIG to 11 in. W.C.) ON PROPANE GAS LINE. PROVIDE ISOLATION VALVES AND UNION FOR EACH VALVE. SHOWN AS SINGLE VALVE FOR CLARITY. ENSURE CODE REQUIRED CLEARANCE BETWEEN FRESH AIR INTAKE AND PRV.
- 6 ROUTE REFRIGERANT PIPING TO CONDENSING UNIT ON ROOF. REFER TO MANUFACTURER'S INSTALLATION MANUAL FOR SPECIFIC CONNECTION DETAILS.
- 7 REFRIGERANT LIQUID AND SUCTION LINE-SET FROM CONDENSING UNIT ON ROOF TO AIR CONDITIONER UNITS BELOW. FACTORY LINE-SETS SIZED AND INSULATED PER MANUFACTURER. SHOWN AS SINGLE LINE FOR CLARITY.
- 8 ROUTE REFRIGERANT LIQUID AND SUCTION LINES DOWN THROUGH ROOF. REFER TO FLOOR PLANS FOR CONTINUATION. PROVIDE SIDE ENTRY 'DOG-HOUSE' FOR PIPE PENETRATIONS. MULTIPLE PIPES TO USE THE SAME ENTRY LOCATION.
- 9 ROUTE PROPANE GAS PIPE UP FROM BELOW. REFER TO FLOOR PLAN FOR CONTINUATION. PROVIDE SIDE ENTRY 'DOG-HOUSE' FOR PIPE PENETRATIONS. MULTIPLE PIPES TO USE THE SAME ENTRY LOCATION.
- 10 ROUTE REFRIGERANT LINES DOWN. REFER TO FLOOR PLAN FOR CONTINUATION. INDOOR UNITS LOCATED IN STAND-ALONE ELECTRICAL ROOM, EXISTING IT CLOSET AND EXISTING TELEPHONE ROOM. REFER TO M-3 AND M-6 FOR LOCATION.
- 11 REFRIGERANT SUCTION AND LIQUID PIPING FROM CONDENSING UNITS ON ROOF TO AIR CONDITIONER UNITS IN COMPUTER SERVER ROOM. FIELD INSTALLED AND INSULATED PIPING INCLUDES TWO PIPES PER CIRCUIT. HOT GAS PIPE TO BE 7/8" FOR HORIZONTAL PIPE, 3/4" FOR VERTICAL RUNS. LIQUID PIPING 5/8" FOR ALL PIPE. INSTALL TRAP AT BASE OF RISER ON EACH PIPE. SHOWN AS SINGLE LINE FOR CLARITY.



MARK	DATE	DESCRIPTION
	07/20/2018	
APPROVED		
ARCHITECTURAL		
MECHANICAL		
ELECTRICAL		
PLUMBING		

STAMP

KYLE BEST  
2018  
PROFESSIONAL ENGINEER

CONSULTANT

ROCK GAP  
P E N E T R A T I N G

INDIAN HEALTH SERVICE  
4151 Indian School Road NE  
Albuquerque, New Mexico 87110

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY  
RENOVATION & ADDITION  
MECHANICAL ROOF PLAN

DRWN BY  
VICUNA  
CHKD BY  
BEST  
SCALE  
1/4" = 1'-0"  
DATE  
07/20/2018

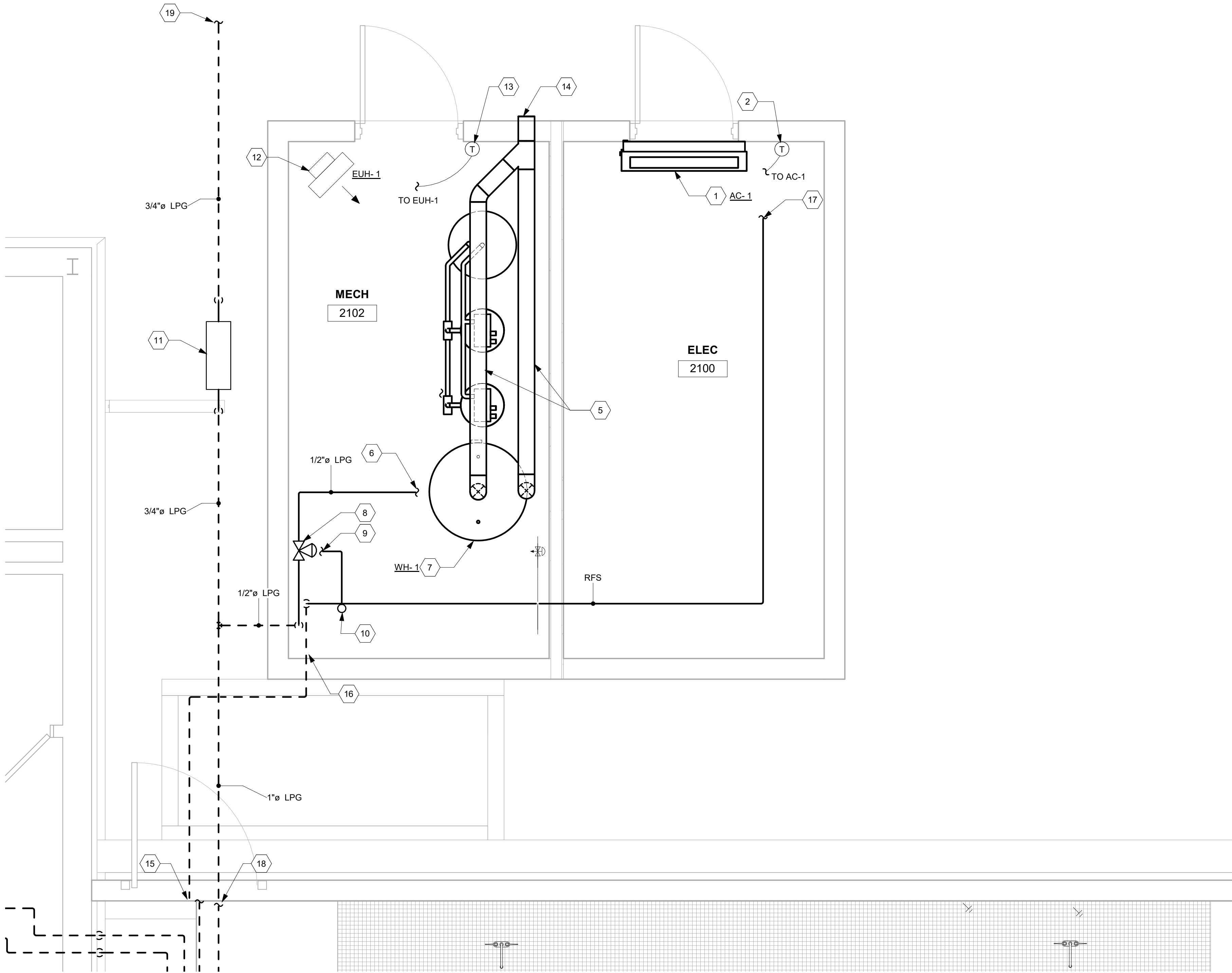
M-5

PROJECT NUMBER  
117043

SHEET of



\\vgm-fserver\users\lisaahG\Documents\20-107 IHS Mescalero\_MEP\_v20\_lisaahG\MLF.rvt



1 M-6 Enlarged Mechanical  
1/2" = 1'-0"

- GENERAL NOTES:**
- A REFER TO M-1 FOR SYMBOLS AND LEGEND, AND M-2 FOR GENERAL NOTES.
  - B REFER TO M-7 FOR DETAILS.
  - C REFER TO M-8 FOR EQUIPMENT SCHEDULES.
  - D ALL AIRFLOWS MEET THE REQUIREMENTS OF INDIAN HEALTH SERVICE VOLUME III HEALTH CARE FACILITIES DESIGN AND CONSTRUCTION CHAPTER 21.4 MECHANICAL GUIDELINES
- # KEYED NOTES**

- 1 DX SPLIT SYSTEM AIR CONDITIONER MOUNTED ON WALL ABOVE DOOR.
- 2 THERMOSTAT FOR AIR CONDITIONER MOUNTED ON WALL. FIELD COORDINATE FINAL LOCATION.
- 5 COMBUSTION AIR AND FLUE DUCTS FROM WATER HEATER. REFER TO MANUFACTURER FOR DUCT SIZING REQUIREMENTS. SUPPORT DUCT FROM STRUCTURE.
- 6 ROUTE PROPANE GAS TO WATER HEATER. REFER TO WATER HEATER DIAGRAM FOR ACCESSORIES AND CONNECTION.
- 7 SEALED COMBUSTION WATER HEATER.
- 8 INSTALL PRESSURE REDUCTION VALVE (15 PSIG TO 11 IN. W.C.) ON PROPANE LINE. VALVE LOCATED IN CEILING SPACE ABOVE WATER ENTRY. FIELD COORDINATE FINAL LOCATION.
- 9 ROUTE VENT FROM PRESSURE REDUCTION VALVE UP TO ROOF.
- 10 PROPANE REGULATOR VENT UP THROUGH ROOF. FIELD COORDINATE FINAL LOCATION WITH VENT AND OUTSIDE AIR INTAKES.
- 11 PROPANE GAS METER ON SIDE OF BUILDING. FIELD COORDINATE FINAL LOCATION WITH OWNER. METER TO PROVIDE PULSED OUTPUT COMPATIBLE WITH DDC CONTROL SYSTEM. REFER TO CONTROLS FOR SIGNAL.
- 12 ELECTRIC UNIT HEATER FOR FREEZE PROTECTION MOUNTED ABOVE FLOOR.
- 13 THERMOSTAT FOR ELECTRIC UNIT HEATER MOUNTED ON WALL. SET T-STAT FOR 45°F (ADJ.).
- 14 CONCENTRIC VENT KIT FOR COMBUSTION AIR AND FLUE FROM WATER HEATER. COORDINATE LOCATION WITH DOOR AND FINAL WALL PENETRATION. REFER TO WATER HEATER INSTALLATION INSTRUCTIONS FOR CLEARANCE ENVELOPE.
- 15 REFRIGERANT LINE-SET FROM CEILING SPACE OF NEW AREA. REFER TO FLOOR PLAN FOR CONTINUATION.
- 16 ROUTE REFRIGERANT PIPING LINE-SET UP FROM BELOW GRADE TO CEILING SPACE IN MECHANICAL ROOM. ROUTE TO INDOOR UNIT IN ELECTRICAL ROOM AS SHOWN. SHOWN AS SINGLE LINE FOR CLARITY.
- 17 ROUTE REFRIGERANT PIPING TO INDOOR UNIT ON WALL. REFER TO MANUFACTURER'S INSTALLATION FOR CONNECTION.
- 18 ROUTE PROPANE PIPE INTO CEILING SPACE. REFER TO PLUMBING PLANS FOR CONTINUATION. SLEEVE PENETRATION THROUGH WALL.
- 19 MEDIUM PRESSURE (15 PSIG) PROPANE FROM STORAGE TANK AND VAPORIZER ON SITE. REFER TO CIVIL FOR PIPE ROUTING FROM TANK.

MARK	DATE	DESCRIPTION
	07/20/2018	
APPROVED		
ARCHITECTURAL	MECHANICAL	ELECTRICAL
PLUMBING		

STAMP

KYLE BEST  
2018  
PROFESSIONAL ENGINEER

CONSULTANT

ROCK GAP  
ARCHITECTS  
P.C.

INDIAN HEALTH SERVICE  
SHS

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

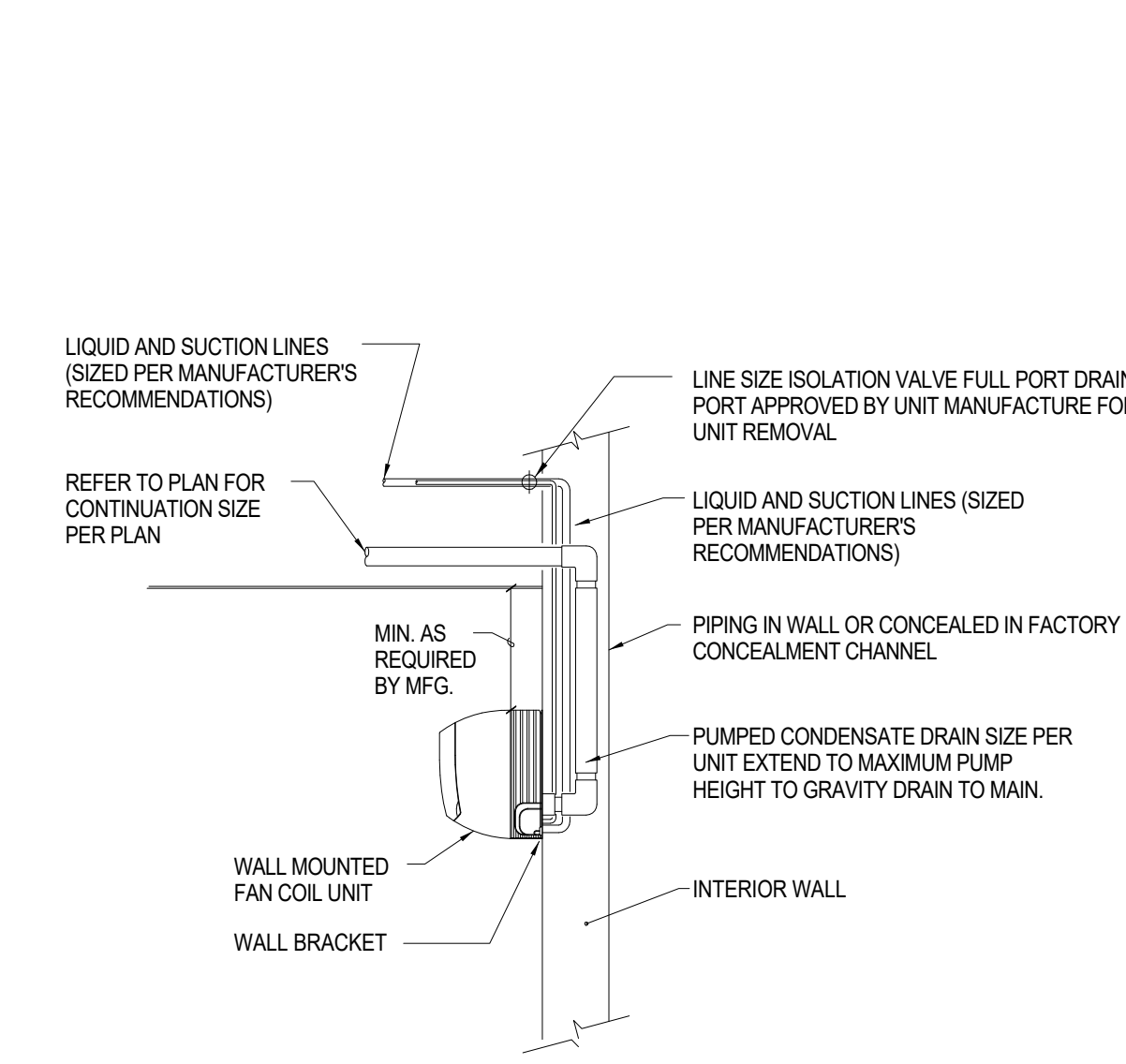
MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY  
RENOVATION & ADDITION  
MECHANICAL ENLARGED PLAN

DRWN BY  
VICUNA  
CHKD BY  
BEST  
SCALE  
1/2" = 1'-0"  
DATE  
07/20/2018

M-6  
PROJECT NUMBER  
117043  
SHEET of

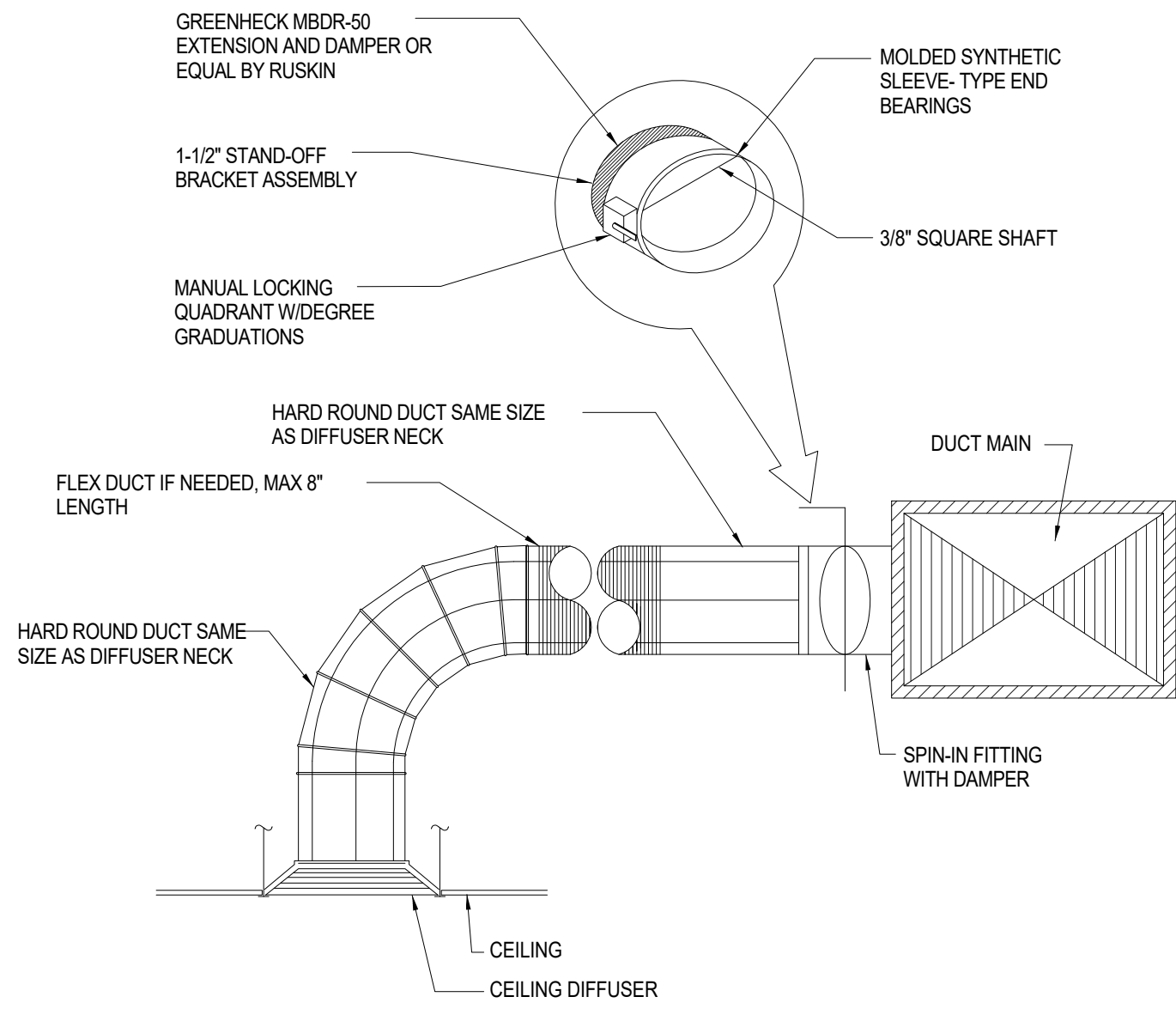


\\ngm-fs-server\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



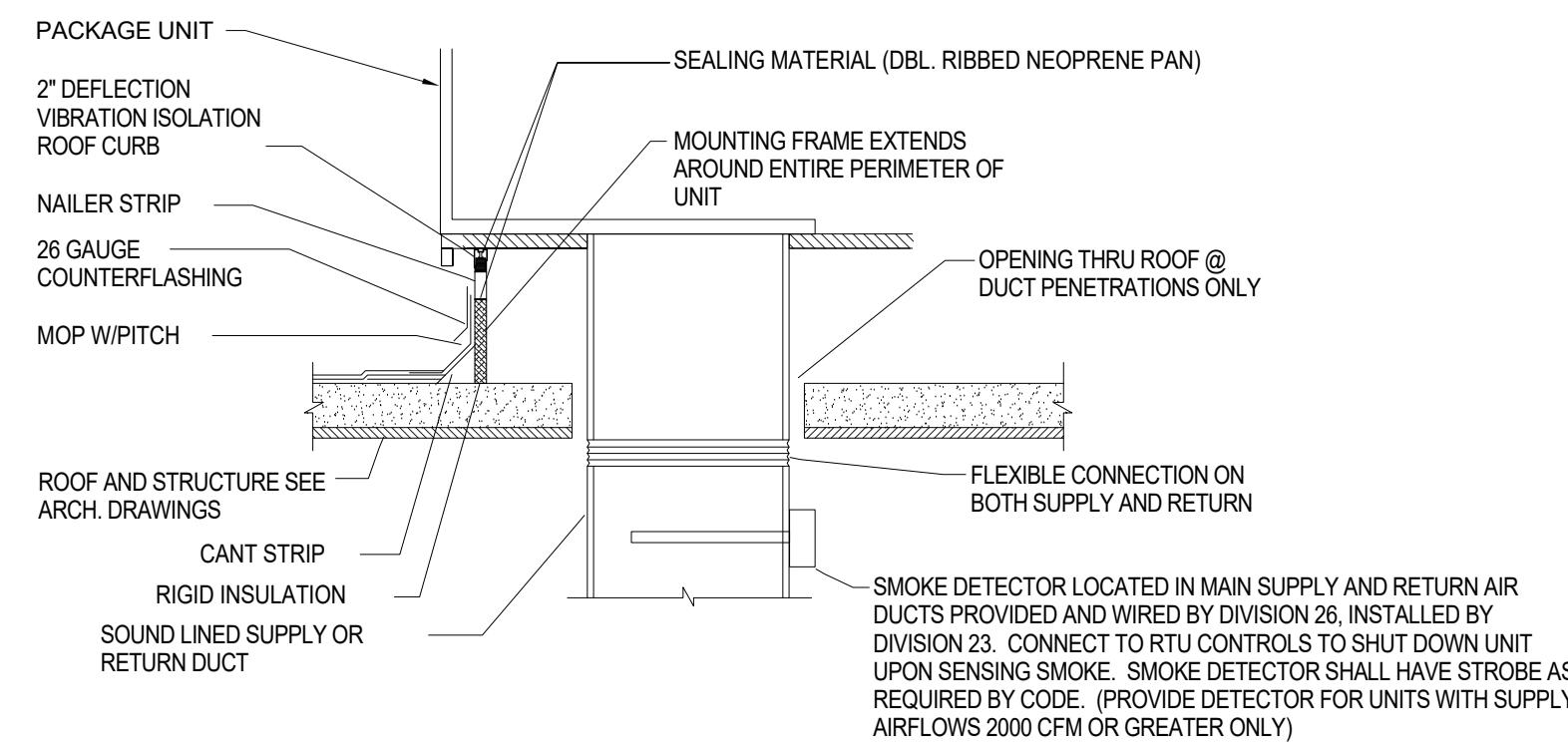
WALL MOUNTED FAN COIL UNIT DETAIL  
SCALE: N.T.S.

1  
M-7



SUPPLY DIFFUSER CONNECTION AND TAKE-OFF  
SCALE: N.T.S.

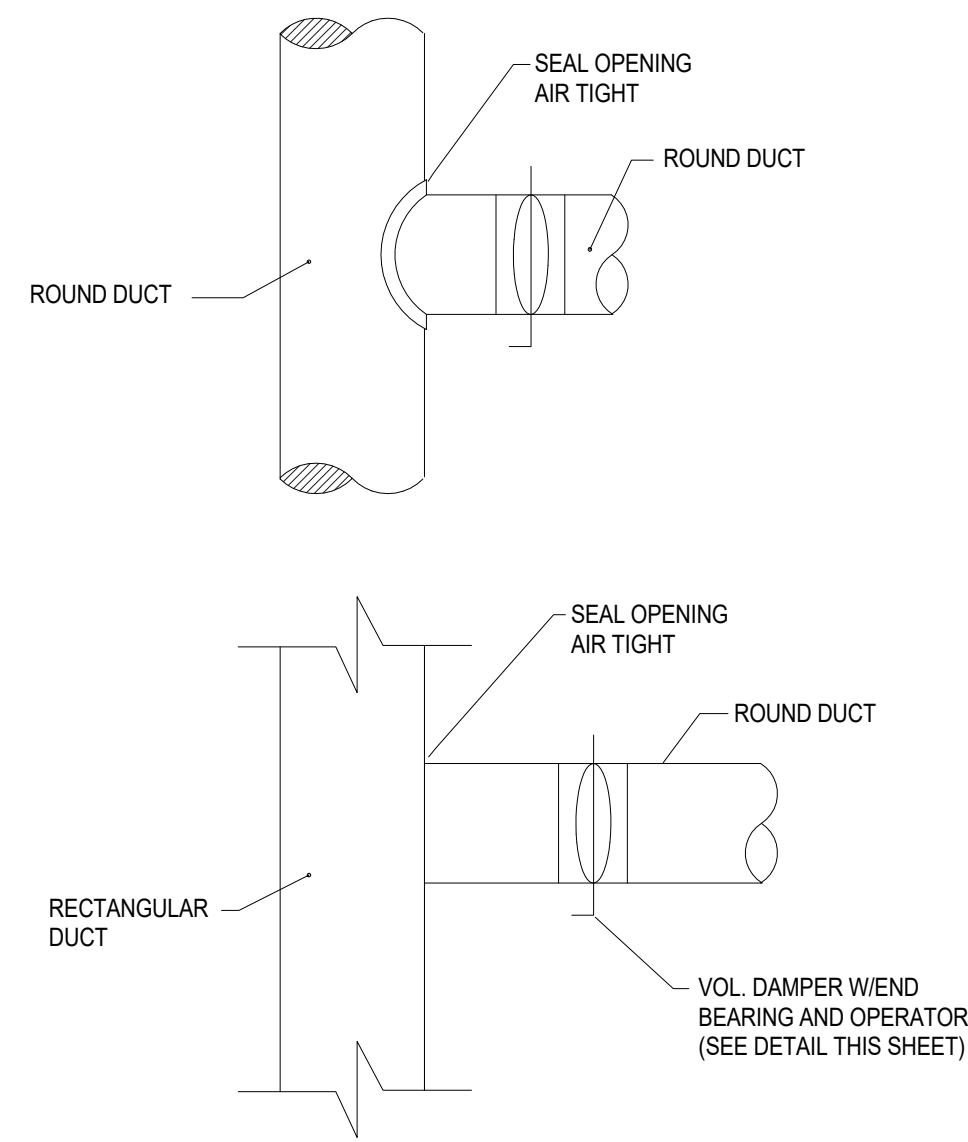
2  
M-7



NOTE: LOCATE SMOKE DETECTOR ABOVE LAY-IN CEILING OR PROVIDE ACCESS HATCH THROUGH HARD CEILING.

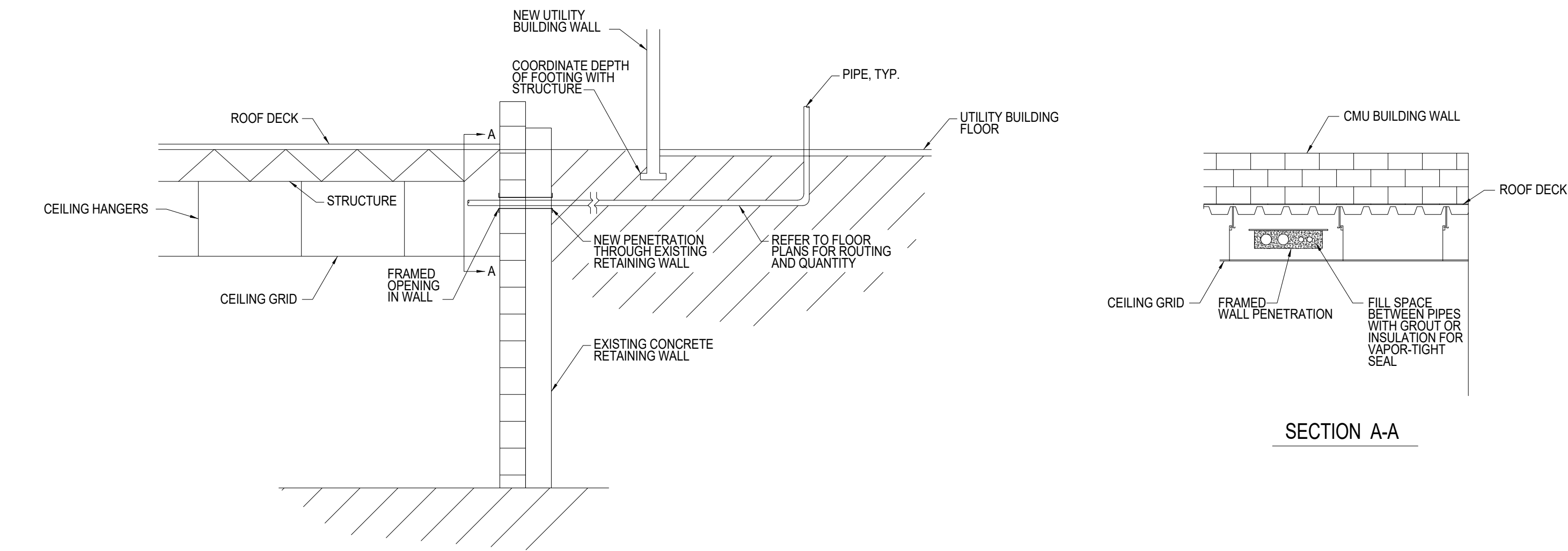
ROOF TOP UNIT MOUNTING DETAIL  
SCALE: N.T.S.

3  
M-7



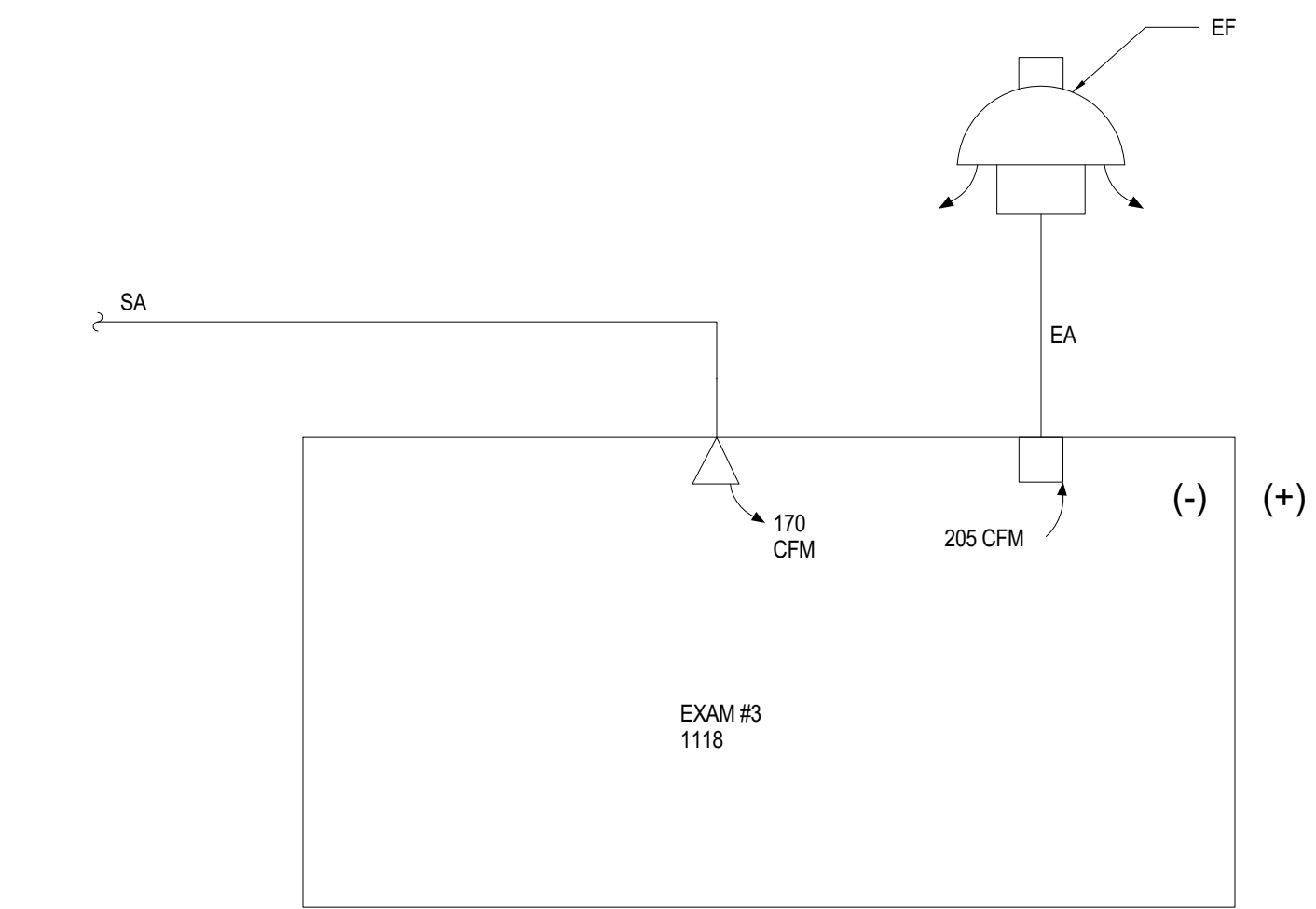
DUCT TAKE-OFFS  
SCALE: N.T.S.

4  
M-7



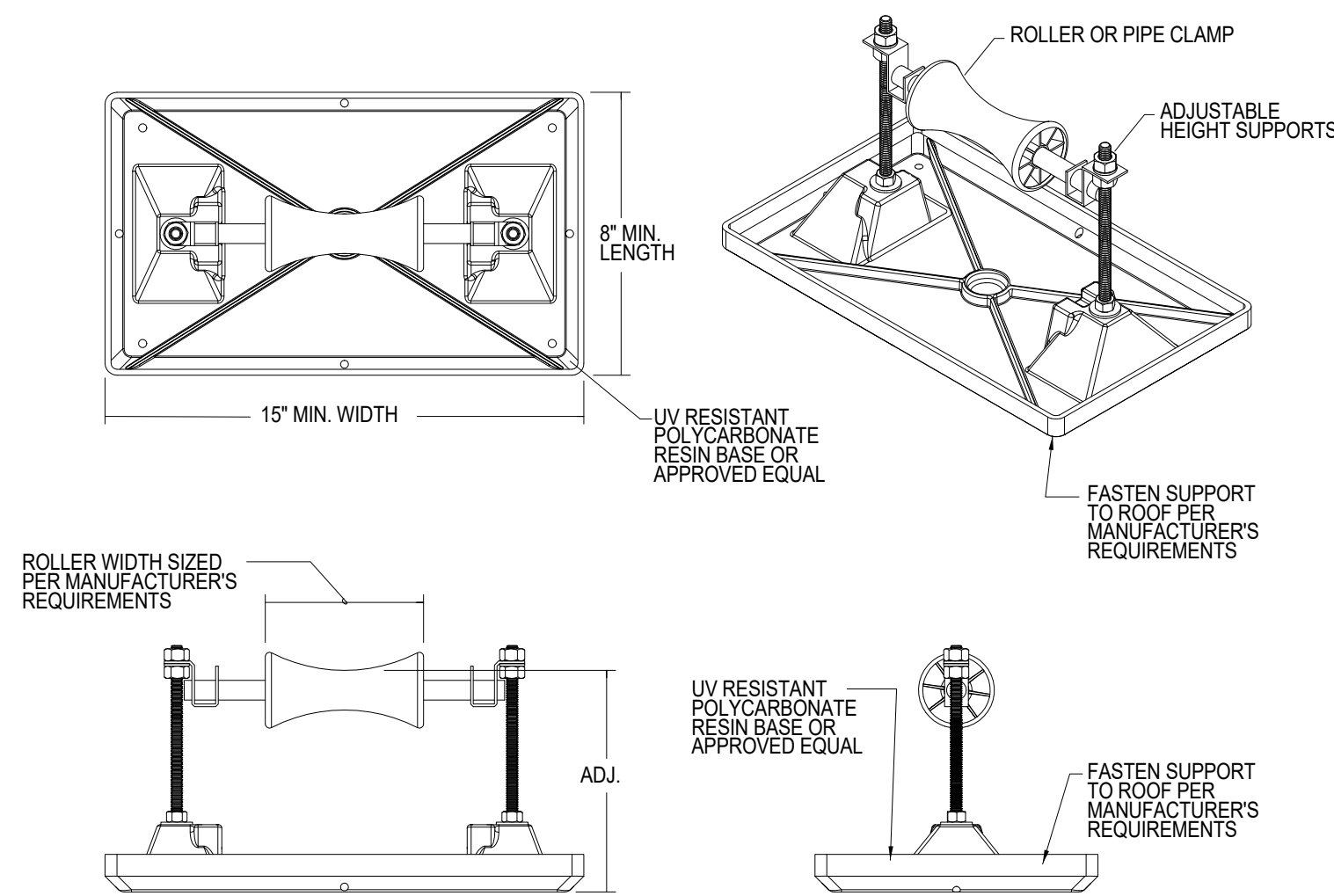
UTILITY/WALL PENETRATION DETAIL  
SCALE: N.T.S.

8  
M-7



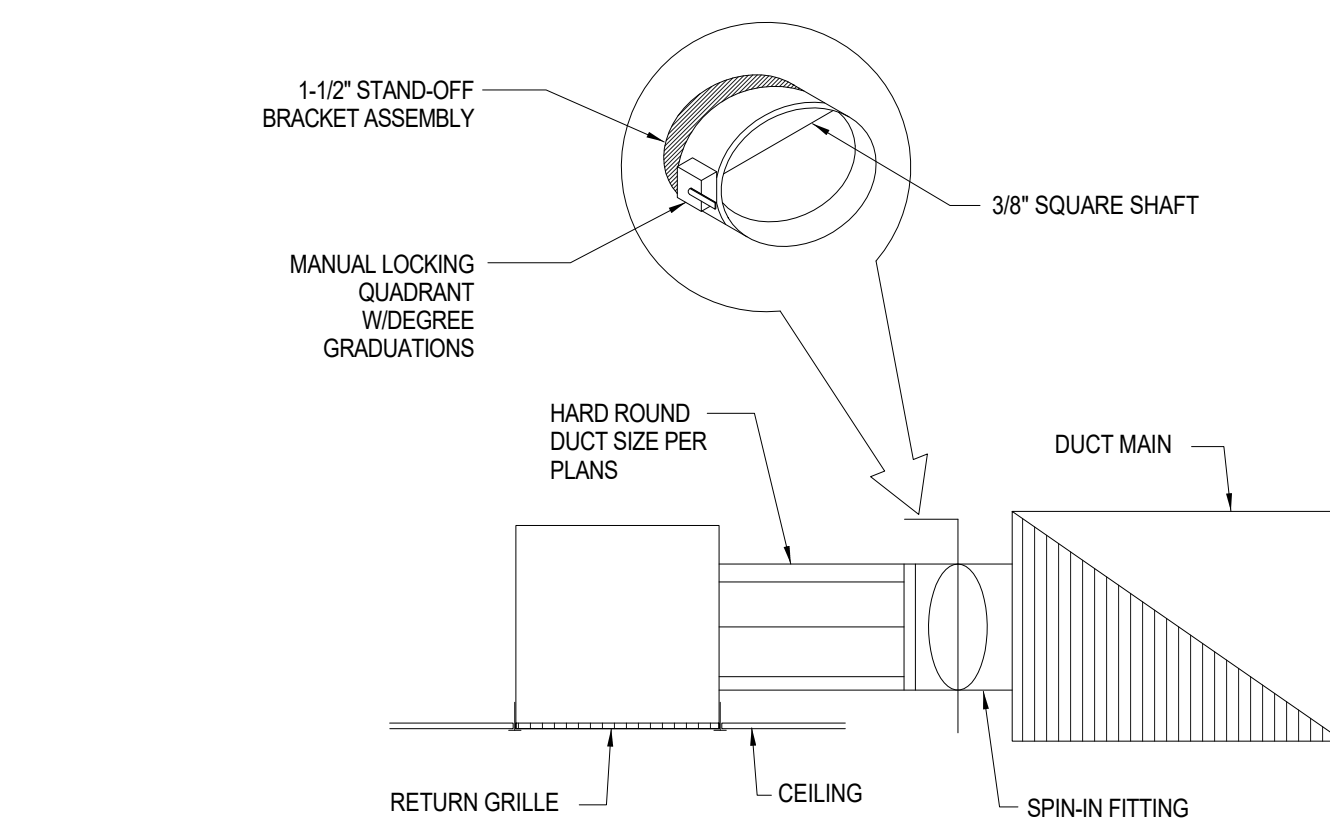
AIR BALANCE - ALL ROOM  
SCALE: N.T.S.

6  
M-7



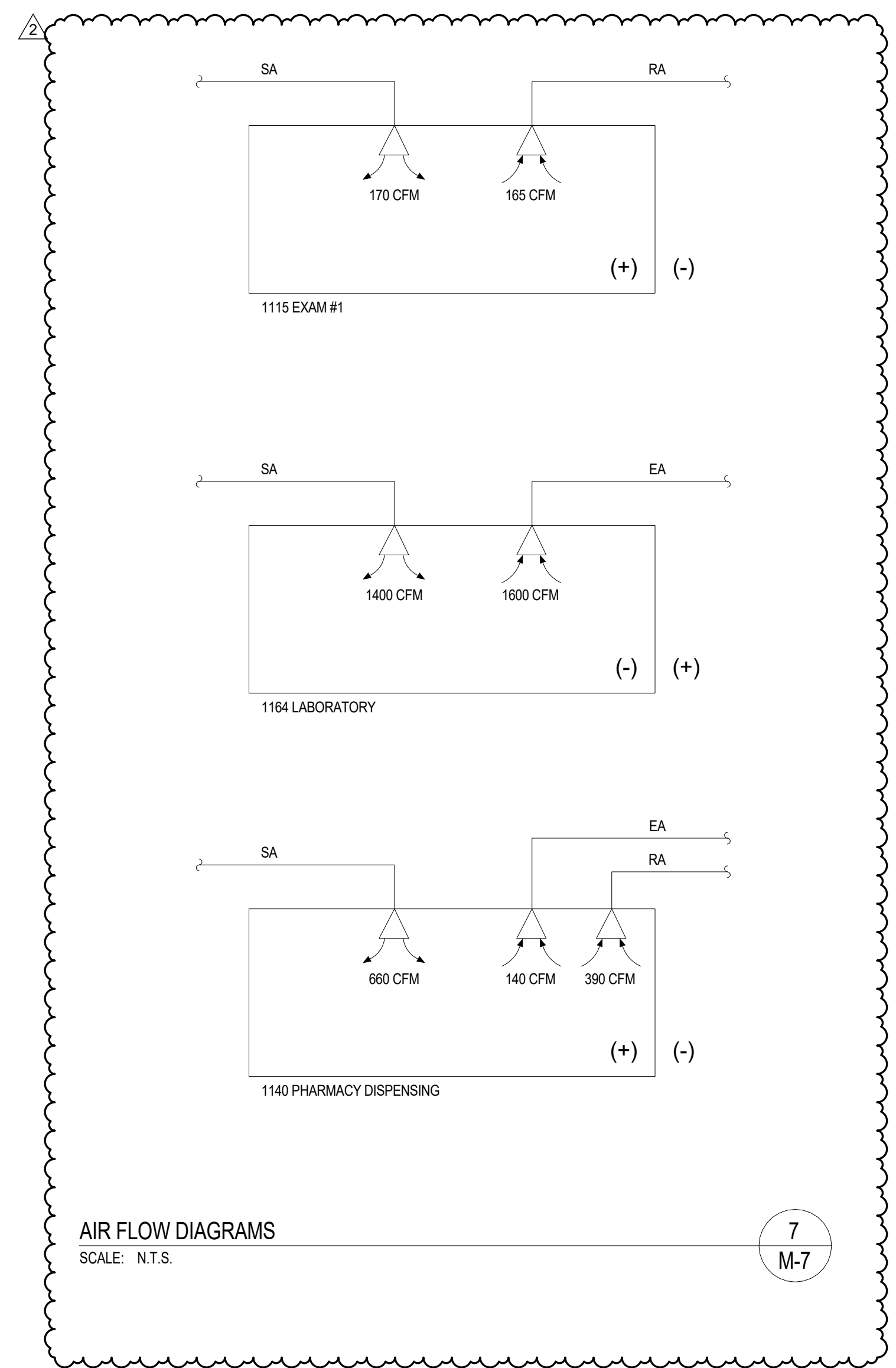
ROOF PIPING SUPPORT  
SCALE: N.T.S.

7  
M-7



EXHAUST DUCT CONNECTION  
SCALE: N.T.S.

5  
M-7



AIR FLOW DIAGRAMS  
SCALE: N.T.S.

7  
M-7

DESCRIPTION	DATE	07/20/2018	AMENDMENT 002	ARCHITECTURAL	ELECTRICAL	PLUMBING
MARK	02	10/14/2021	APPROVED			
<b>STAMP</b> KYLE BEST Professional Engineer No. 2655 2/20/2018						
CONSULTANT <b>INDIAN HEALTH SERVICE</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110						
DRWN BY Martin CHKD BY Swiderski SCALE 1/8" = 1'-0" DATE 07/20/2018 <b>M-7</b> PROJECT NUMBER 117043 SHEET of						



\\gvm-bsever\users\isaiahG\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiah\MLMF.rvt

COMPUTER ROOM CONDENSING UNIT SCHEDULE										
MARK	INDOOR UNIT CONNECTION	O/A SUMMER TEMP °F	O/A WINTER TEMP °F	TOTAL COOLING CAPACITY (MBH)	ELECTRICAL			WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
					VOLTPH	MCA	MOCP			
CU-2	CRAC-1	95	0	80	460/3	1.4	15	250	LIEBERT MCM040	SEE NOTES 1-7
CU-3	CRAC-2	95	0	80	460/3	1.4	15	250	LIEBERT MCM040	SEE NOTES 1-7

- NOTES:
- SIZE AND INSTALL REFRIGERANT PIPING BETWEEN HEAT PUMP UNIT AND ASSOCIATED FAN COIL UNITS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. PIPING SHALL NOT EXCEED LENGTH RECOMMENDED BY MANUFACTURER.
  - ACCESSORIES: LOW AMBIENT COOLING TO 0°F, AND ALL CONTROLS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
  - UNIT SELECTED AT AN ELEVATION OF 6,800 FT ABOVE SEA LEVEL.
  - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED.
  - MOUNT UNIT LEVEL ON EQUIPMENT SUPPORTS. CONTRACTOR SHALL PROVIDE SHORTEST ROUTING OF REFRIGERANT LINES TO ASSOCIATED INDOOR UNITS.
  - MECHANICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH, INSTALLED BY ELECTRICAL.

EQUIVALENT MANUFACTURES:

- PRIOR APPROVAL REQ'D.

COMPUTER ROOM A/C UNIT SCHEDULE													
MARK	LOCATION	CFM	OSA	COOLING CAPACITY			ELECTRICAL			FILTER	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
				ENT. AIR DBWB	TOTAL MBH	SENSIBLE MBH	VOLT / PH	MCA	MOCP				
CRAC-1	IT SERVER ROOM	3500	-	75/60	79.3	63.5	460/3	18.1	35	MERV 8	700	LIEBERT PX023	SEE NOTES 1-5
CRAC-2	IT SERVER ROOM	3500	-	75/60	79.3	63.5	460/3	18.1	35	MERV 8	700	LIEBERT PX023	SEE NOTES 1-5

ACCESSORIES:

LOW AMBIENT COOLING KIT, CONDENSATE PUMP, DISCONNECT SWITCH, 1 SET EXTRA FILTERS, DUCT COLLAR PLENUM, SMOKE DETECTOR.

- NOTES:
- UNIT SELECTED AT ELEVATION OF 6,700 FT ABOVE SEA LEVEL.
  - POWER CONDENSATE PUMP THROUGH UNIT. SHUTDOWN UNIT ON PUMP OVERFLOW.
  - PROVIDE ALL VALVES, FITTINGS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
  - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
  - UNIT WITH UP-FLOW CONFIGURATION. FIELD COORDINATE OUTLET DUCT FITTINGS.

EQUIVALENT MANUFACTURES:

- PRIOR APPROVAL REQ'D.

INDOOR FAN COIL UNIT SCHEDULE													
MARK	LOCATION	CFM	OSA	COOLING CAPACITY			ELECTRICAL			FILTER	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
				ENT. AIR DBWB	TOTAL MBH	SENSIBLE MBH	VOLT/ PH	MCA	MOCP				
AC-1	ELECTRICAL EQUIPMENT ROOM	705	-	78/63	24	17	SEE NOTE4			WASHABLE	50	MITSUBISHI PKA-A24	SEE NOTES 1-5
AC-2	FIRST FLOOR IT CLOSET	425	-	78/63	12	12	SEE NOTE4			WASHABLE	50	MITSUBISHI PKA-A12	SEE NOTES 1-5
AC-3	FIRST FLOOR TELEPHONE CLOSET	705	-	78/63	24	17	SEE NOTE4			WASHABLE	50	MITSUBISHI PKA-A24	SEE NOTES 1-5

ACCESSORIES:

FURNISH UNIT WITH HARD-WIRED MANUFACTURER'S 7-DAY PROGRAMMABLE CONTROLLER, LOW AMBIENT COOLING KIT, CONDENSATE PUMP.

- NOTES:
- UNIT SELECTED AT ELEVATION OF 6,700 FT ABOVE SEA LEVEL.
  - POWER CONDENSATE PUMP THROUGH UNIT. SHUTDOWN UNIT ON PUMP OVERFLOW.
  - PROVIDE ALL VALVES, FITTINGS AND ACCESSORIES FOR A COMPLETE AND OPERATIONAL SYSTEM.
  - PROVIDE ALL SERVICE AND OPERATIONAL CLEARANCES AS REQUIRED. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
  - ELECTRICITY TO POWER INDOOR UNITS FED FROM EXTERIOR UNIT. REFER TO EXTERIOR CONDENSING UNIT SCHEDULE FOR VOLTAGE AND DISCONNECT INFORMATION.

EQUIVALENT MANUFACTURES:

- L.G. DAIKEN, LENNOX.

EXHAUST FAN SCHEDULE												
MARK	MANUFACTURER AND MODEL	TYPE	SERVICE	INTERLOCK WITH	CFM	FAN STATIC (IN. W.C.)	VOLT / PH	MOTOR SIZE (HP)	APPROX. WEIGHT (LBS.)			
EF-1	GREENHECK CUE-80-VG	UP-BLAST CENTRIFUGAL	ALL ROOM	ROOM PRESSURE CONTROLLER	200	0.375	120V/1	1/10	100			
EF-2	GREENHECK G-80-VG	DOWN-BLAST CENTRIFUGAL	TRIAGE ROOMS	OCCUPANCY	300	0.375	120V/1	1/10	100			
EF-3	GREENHECK CUE-131-VG	UP-BLAST CENTRIFUGAL	LAB	RTU-1	2025	0.375	208V/1	3/4	100			

- NOTES:
- PROVIDE MOTORIZED BACKDRAFT DAMPER INTERLOCKED WITH FAN.
  - HIGH EFFICIENCY BRUSHLESS MOTOR WITH ELECTRIC SPEED CONTROLLER. ELECTRICAL DISCONNECT PROVIDED BY MECHANICAL, INSTALLED BY ELECTRICAL.
  - INTERLOCK EF-3 WITH RTU-1 OPERATION.
  - EF-1 TO HAVE 0-10V CONTROL SIGNAL FOR FAN CONTROL. INTERFACE SIGNAL WITH DDC SYSTEM AND ROOM PRESSURIZATION CONTROLLER.

EQUIVALENT MANUFACTURES:

- TWIN CITY FAN, PENNBARRY, COOK.

AIR DISTRIBUTION DEVICE SCHEDULE						
MARK	DESCRIPTION	MANUFACTURER AND MODEL	TYPE	MATERIAL	FINISH	REMARKS
S1	SUPPLY DIFFUSER	PRICE SCD	SQUARE CONE DIFFUSER	ALUMINUM	BAKED ENAMEL, WHITE	24x24 RECTANGULAR SUPPLY DIFFUSER, LAY-IN FRAME
S2	SUPPLY DIFFUSER	PRICE SCD	SQUARE CONE DIFFUSER	ALUMINUM	BAKED ENAMEL, WHITE	12x12 RECTANGULAR SUPPLY DIFFUSER, HARD CEILING FRAME
S3	SUPPLY DIFFUSER	PRICE AMDC	LOUVERED FACE DIRECTIONAL DIFFUSER WITH HIGH EFFICIENCY FILTER	ALUMINUM	BAKED ENAMEL, WHITE	24x24 RECTANGULAR SUPPLY DIFFUSER, LAY-IN FRAME, MERV 14 FILTER MEDIA, 1/2" THICK FOAM BAKED INSULATION, DAMPER WITH CABLE OPERATOR, PROVIDE 2 SETS OF FILTER MEDIA WITH UNIT (1 INSTALLED, 1 SPARE).
R1	RETURN GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	24x24 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED RETURN BOOT
R2	RETURN GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	12x12 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED RETURN BOOT
R3	RETURN GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	24x12 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED RETURN BOOT
E1	EXHAUST GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	24x24 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED EXHAUST BOOT
E2	EXHAUST GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	12x12 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED EXHAUST BOOT
E3	EXHAUST GRILLE	PRICE 80	EGG CRATE RETURN	ALUMINUM	BAKED ENAMEL, WHITE	24x12 RECTANGULAR RETURN GRILL, 1/2" EGG CRATE GRILL, LAY-IN FRAME, FIELD FABRICATED EXHAUST BOOT

EQUIVALENT MANUFACTURES:

- TITUS, KRUEGER, NAILOR

VAV BOX SCHEDULE (REFERENCE)									
MARK	LOCATION	AIR FLOW			INLET (°Ø)	AIR P.D. (IN)	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
		COOLING	HEATING	TOTAL					
VAV-A-1	PHARMACY	1170	930	1250	12	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-2	PHARMACY	830	640	910	10	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-3	PHARMACY	300	270	310	6	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-4	PHARMACY	600	460	640	8	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-5	RADIOLOGY	460	350	500	7	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-6	RADIOLOGY	550	420	600	8	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-7	IT TRAINING	290	220	320	6	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-A-18a	IT TRAINING	700	330	760	8	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-H-1	OFFICES	470	330	470	7	0.9	-	CARNES SCE	SEE NOTE 1.2
VAV-V-2	BIO-MED	180	130	180	5	0.9	-	CARNES SCE	SEE NOTE 1.2

- NOTES:
- SCHEDULE PROVIDED FOR REFERENCE ONLY.
  - EXISTING CONSTANT VOLUME DUAL DUCT MIXING BOXES.
  - EXISTING DDC CONTROLS ON EACH MIXING BOX.

ELECTRIC UNIT HEATER SCHEDULE											
MARK	MANUFACTURER AND MODEL	SERVICE	CFM	TEMP RISE	KW	STAGES	VOLT / PH	FAN MOTOR HP	MCA	WEIGHT (LBS.)	NOTES
EUH-1	BERKO HUHA348	MECHANICAL ROOM	350	45°F	3	1	480/3	1/100	3.6	24	SEE NOTE 1,2,3,4

- NOTES:
- PROVIDE UNIT WITH 24-VOLT CONTROL TRANSFORMER, ADJUSTABLE HORIZONTAL LOUVERS, WALL MOUNTING KIT, FACTORY PROVIDED SINGLE-STAGE ADJUSTABLE THERMOSTAT (WITH CONTACTOR IF NECESSARY TO CARRY THE HEATER LOAD) FOR INSTALLATION ON WALL.
  - FURNISH UNIT WITH FACTORY POWER DISCONNECT SWITCH KIT FOR FIELD INSTALLATION BY ELECTRICAL CONTRACTOR. COORDINATE WITH ELECTRICAL CONTRACTOR.
  - VERIFY EXACT LOCATION AND MOUNTING HEIGHT OF UNIT PRIOR TO INSTALLATION. INSTALL PER MANUFACTURER'S REQUIREMENTS.
  - PROVIDE ALL REQUIRED SERVICE AND OPERATIONAL CLEARANCES, INCLUDING ALL REQUIRED CLEARANCES TO COMBUSTIBLES AND ALL CLEARANCES REQUIRED BY NEC ARTICLE 110.

ROOF-TOP UNIT SCHEDULE																				
MARK	LOCATION	CFM	OSA	SUPPLY FAN		COOLING CAPACITY				HEATING CAPACITY				ELECTRICAL			FILTER	WEIGHT (LBS.)	MANUFACTURER AND MODEL	NOTES
				ESP (n. WC)	FAN HP	ENT. AIR DBWB	DIS. AIR DBWB	TOTAL MBH	SENSIBLE MBH	ENT. AIR DB	DIS. AIR DB	SITE INPUT MBH	SITE OUTPUT MBH	VOLT / PH	MCA	MOCP				
RTU-1	LAB	1920	1920	0.75	0.9	68/63	52/52	52.2	28.2	5	82	200	128	460/3	20	25	MERV 14	2600	CARRIER 62KK06	SEE NOTE 1-7
RTU-2	EXAM ROOMS	1450	275	0.75	0.7	82/55	55/54	31.26	31	50	102	79.2	63.4	460/3	10	15	MERV 13	750	CARRIER 48GCRM04	SEE NOTE 1-6
RTU-3	EXAM ROOMS	1450	475	0.75	0.7	82/55	55/54	31.26	31	50	102	79.2	63.7	460/3	10	15	MERV 13	750	CARRIER 48GCRM04	SEE NOTE 1-6
RTU-4	NURSES STATION	1650	275	0.75	2	76/61	55/54	41	34	58	106	79.2	63.4	460/3	12	15	MERV 13	800	CARRIER 48GCRM05	SEE NOTE 1-6
RTU-5	WAITING ROOM	1415	320	0.75	0.7	82/55	55/54	31	31	50	105	79.2	63.4	460/3	10	15	MERV 13	750	CARRIER 48GCRM04	SEE NOTE 1-6

- NOTES:
- UNITS ARE MOUNTED ON 16" HIGH ROOF CURB.
  - UNITS TO BE PROVIDED WITH OUTDOOR AIR INTAKE OPENINGS, WITH LOCKABLE VOLUME DAMPERS ON INLET, SET TO OSA VOLUME SHOWN IN SCHEDULE ABOVE.
  - INDOOR FAN SHALL BE DIRECT DRIVE ECM AND SHALL RUN CONTINUOUSLY DURING OCCUPIED HOURS.
  - EXTERNAL STATIC PRESSURE DOES NOT INCLUDE ANY PRESSURE DROP ASSOCIATED WITH ROOFTOP UNIT ACCESSORIES.
  - ENSURE ALL SERVICE AND OPERATIONAL CLEARANCES ARE MAINTAINED.
  - UNIT SELECTED AT ELEVATION OF 6,700 FT ABOVE SEA LEVEL.
  - 100% OUTSIDE AIR UNIT FOR LAB SPACE. UNIT TO RUN CONTINUOUS. PROVIDE SMOKE DETECTOR FOR MOUNTING BY MECHANICAL IN SUPPLY DUCT. DETECTOR WIRED BY ELECTRICAL CONTRACTOR.

ACCESSORIES:

- FACTORY MOUNTED DISCONNECT, DDC CONTROLS INTERFACE TO EXISTING HOSPITAL SYSTEM, FULLY MODULATING DRY-BULB ECONOMIZER.
- BAROMETRIC RELIEF DAMPERS, STAINLESS STEEL HEAT EXCHANGER, ELECTRICAL PHASE MONITOR, HINGED ACCESS DOORS, ONE (1) SET OF REPLACEMENT FILTERS, HAIL GUARDS.

EQUIVALENT MANUFACTURES:

- TRANE, MCQUAY, LENNOX.

MARK	DATE	DESCRIPTION	APPROVED	STAMP
02	10/14/2021	AMENDMENT 002		
CONSULTANT <b>INDIAN HEALTH SERVICE</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4015 Indian School Road NE Albuquerque, New Mexico 87110				
DRWN BY Martin				
CHKD BY Swiderski				
SCALE 1/8" = 1'-0"				
DATE 07/20/2018				
PROJECT NUMBER 117043				
SHEET of				

318 ABALONE LOOP MESCALERO, NM 88603 OTTERO COUNTY  
RENOVATION & ADDITION  
MECHANICAL SCHEDULES



\\gmn-fs-server\users\slsiah\G\Documents\20-107 IHS Mescalero MEP\_v20\_isiahg\MLF.rvt

EXHAUST FAN - ON/OFF (EF-1, EF-3, LEF-1)

RUN CONDITIONS - SCHEDULED:  
THE FAN SHALL RUN ACCORDING TO A USER DEFINABLE SCHEDULE.  
FAN:  
THE FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.  
EXHAUST AIR DAMPER:  
THE EXHAUST AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS  
AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR  
DAMPER SHALL CLOSE 30 SEC (ADJ.) AFTER THE FAN STOPS.  
ALARMS SHALL BE PROVIDED AS FOLLOWS:

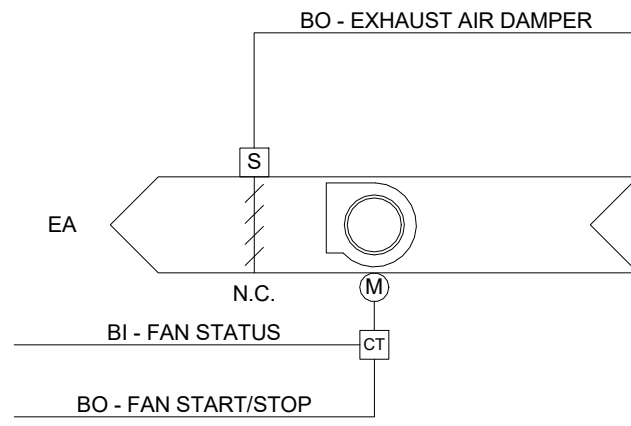
- DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

#### EXHAUST FAN

SCALE: N.T.S.

FAN STATUS:  
THE CONTROLLER SHALL MONITOR THE FAN STATUS.  
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

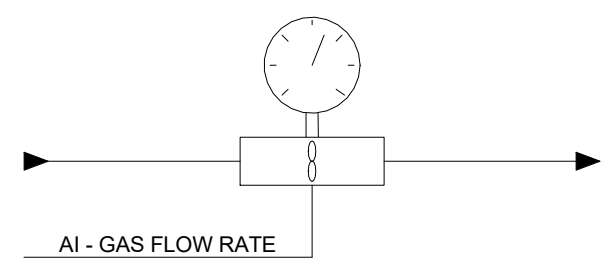


1  
M-9

RUN CONDITIONS - TEMPERATURE:  
THE UNIT SHALL CYCLE BASED ON USER DEFINED TEMPERATURE SET POINT:  
THE UNIT SHALL MAINTAIN A 70°F (ADJ.) COOLING SETPOINT  
ZONE SETPOINT ADJUST:  
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.  
SUPPLY FAN:  
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A FACTORY DEFINED MINIMUM RUNTIME.

#### IT CLOSET COOLING UNIT

SCALE: N.T.S.



3  
M-9

GAS METER (TYPICAL OF 1)

GAS METER:  
THE CONTROLLER SHALL MONITOR THE GAS METER FOR GAS CONSUMPTION ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.

ALARM SHALL BE GENERATED AS FOLLOWS:

- METER FAILURE: SENSOR READING INDICATES A LOSS OF PULSE OUTPUT FROM THE GAS METER.

PEAK DEMAND HISTORY:  
THE CONTROLLER SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE GAS METER. PEAK READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR TO DATE BASIS.

USAGE HISTORY:  
THE CONTROLLER SHALL MONITOR AND RECORD GAS METER READINGS SO AS TO PROVIDE A GAS CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

#### GAS METER

SCALE: N.T.S.

4  
M-9

WATER FLOW METER (TYPICAL OF 1)

WATER METER:  
THE CONTROLLER SHALL MONITOR THE WATER METER FOR WATER CONSUMPTION ON A CONTINUAL BASIS. THESE VALUES SHALL BE MADE AVAILABLE TO THE SYSTEM AT ALL TIMES.

ALARM SHALL BE GENERATED AS FOLLOWS:

- METER FAILURE: SENSOR READING INDICATES A LOSS OF PULSE OUTPUT FROM THE WATER METER.

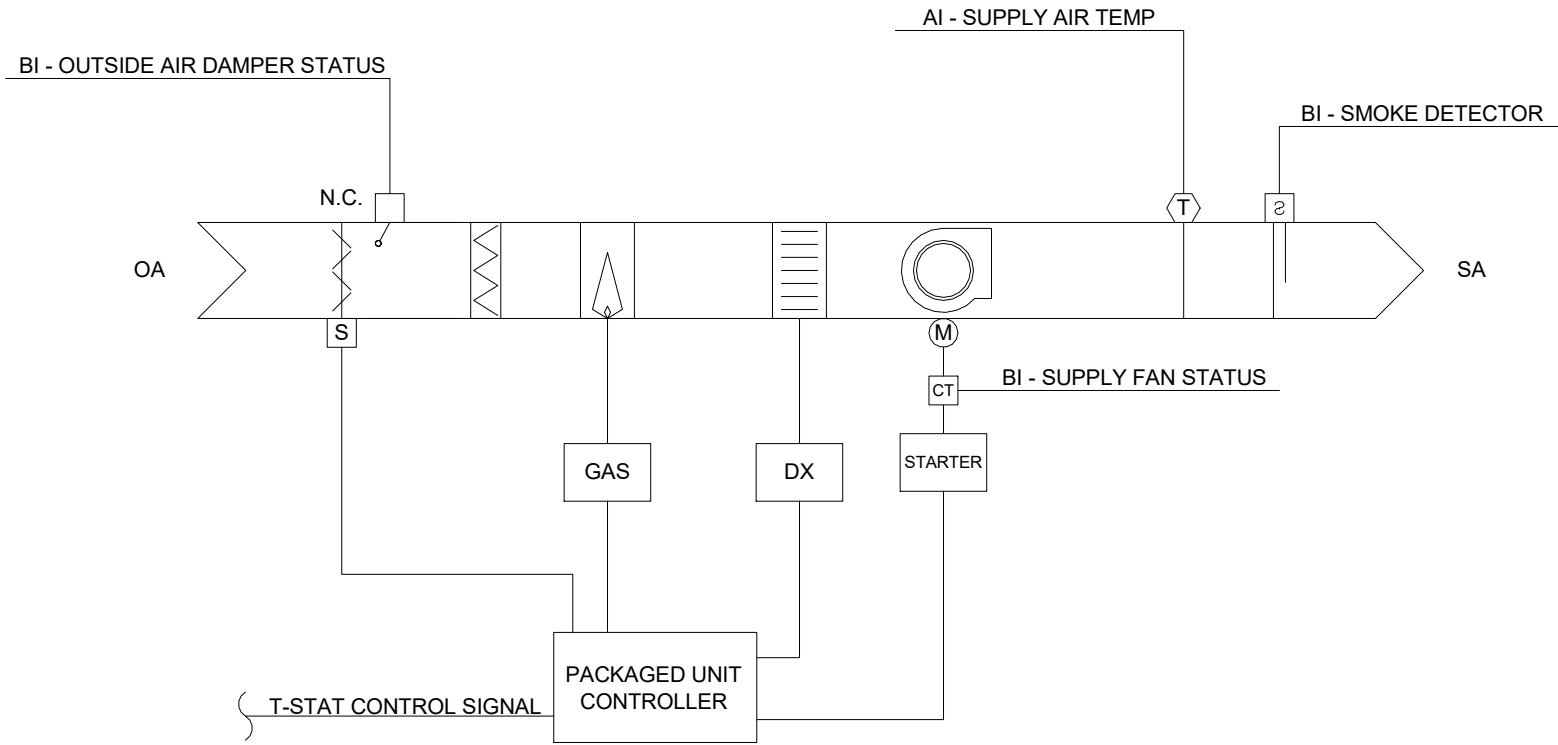
PEAK DEMAND HISTORY:  
THE CONTROLLER SHALL MONITOR AND RECORD THE PEAK (HIGH AND LOW) DEMAND READINGS FROM THE WATER METER. THESE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

USAGE HISTORY:  
THE CONTROLLER SHALL MONITOR AND RECORD WATER METER READINGS SO AS TO PROVIDE A WATER CONSUMPTION HISTORY. USAGE READINGS SHALL BE RECORDED ON A DAILY, MONTH-TO-DATE, AND YEAR-TO-DATE BASIS.

#### WATER METER

SCALE: N.T.S.

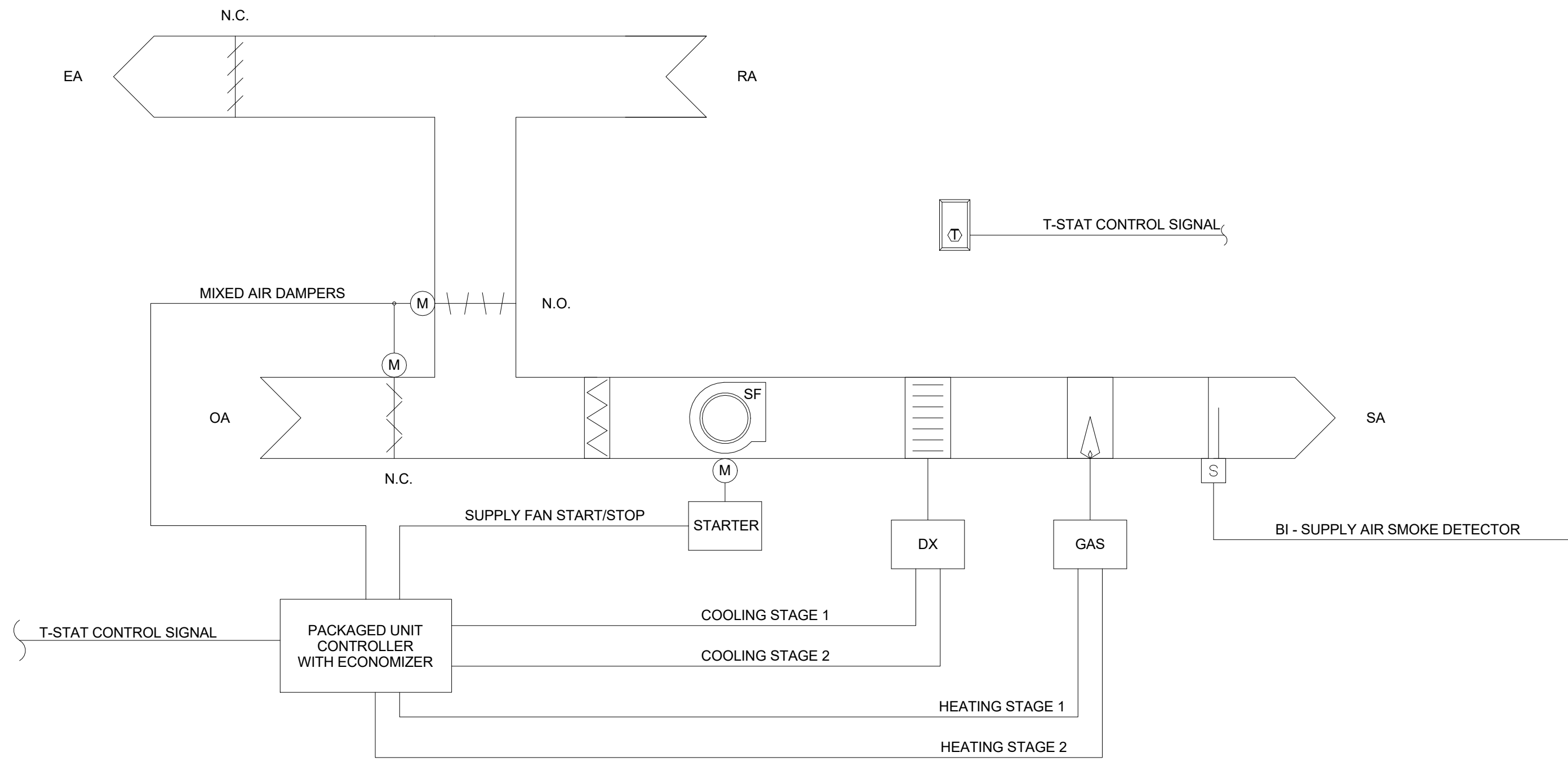
5  
M-9



#### MAKE-UP AIR UNIT

SCALE: N.T.S.

2  
M-9



RUN CONDITIONS - SCHEDULED:  
THE UNIT SHALL RUN ACCORDING TO A USER DEFINABLE TIME SCHEDULE IN THE FOLLOWING MODES:

OCCUPIED MODE: THE UNIT SHALL MAINTAIN A 74°F (ADJ.) COOLING SETPOINT  
A 68°F (ADJ.) HEATING SETPOINT.  
UNOCCUPIED MODE (NIGHT SETBACK): THE UNIT SHALL MAINTAIN A 78°F (ADJ.) COOLING SETPOINT.  
A 60°F (ADJ.) HEATING SETPOINT.

ZONE SETPOINT ADJUST:  
THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE HEATING AND COOLING SETPOINTS AT THE ZONE SENSOR.

ZONE UNOCCUPIED OVERRIDE:  
A TIMED LOCAL OVERRIDE CONTROL SHALL ALLOW AN OCCUPANT TO OVERRIDE THE SCHEDULE AND PLACE THE UNIT INTO AN OCCUPIED MODE FOR AN ADJUSTABLE PERIOD OF TIME. AT THE EXPIRATION OF THIS TIME, CONTROL OF THE UNIT SHALL AUTOMATICALLY RETURN TO THE SCHEDULE.

SUPPLY AIR SMOKE DETECTION:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SUPPLY AIR SMOKE DETECTOR STATUS.

SUPPLY FAN:  
THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A FACTORY DEFINED MINIMUM RUNTIME.

COOLING STAGE:  
THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THE STAGE SHALL HAVE A FACTORY DEFINED MINIMUM RUNTIME.

MAKEUP AIR UNIT - SUPPLY AIR TEMP (TYPICAL OF 1)

RUN CONDITIONS - INTERLOCKED:  
THE UNIT MAU — SHALL BE INTERLOCKED TO RUN WHENEVER AIR HANDLING UNIT — RUNS UNLESS SHUTDOWN ON SAFETIES.  
FREEZE PROTECTION:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A FREEZESTAT STATUS.

SMOKE DETECTION:  
THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE DETECTOR STATUS.

OUTSIDE AIR DAMPER:  
THE OUTSIDE AIR DAMPER SHALL OPEN ANYTIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE SUPPLY FAN SHALL START ONLY AFTER THE DAMPER STATUS HAS PROVEN THE DAMPER IS OPEN. THE OUTSIDE AIR DAMPER SHALL CLOSE 4SEC (ADJ.) AFTER THE SUPPLY FAN STOPS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- OUTSIDE AIR DAMPER FAILURE: COMMANDED OPEN, BUT THE STATUS IS CLOSED.
- OUTSIDE AIR DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

SUPPLY FAN:

THE SUPPLY FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN. TO PREVENT SHORT CYCLING, THE SUPPLY FAN SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME, UNLESS SHUTDOWN ON SAFETIES.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- SUPPLY FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- SUPPLY FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- SUPPLY FAN RUNTIME EXCEEDED: STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

SUPPLY AIR TEMPERATURE SETPOINT - FIXED:

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE AND SHALL MAINTAIN A FIXED SUPPLY AIR TEMPERATURE SETPOINT OF 55°F (ADJ.).

COOLING STAGES:  
THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS GREATER THAN 60°F (ADJ.).
- AND THE SUPPLY AIR TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE FAN STATUS IS ON.

GAS HEATING STAGES:

THE CONTROLLER SHALL MEASURE THE SUPPLY AIR TEMPERATURE AND STAGE THE HEATING TO MAINTAIN ITS HEATING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN STAGES, AND EACH STAGE SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE HEATING SHALL BE ENABLED WHENEVER:

- OUTSIDE AIR TEMPERATURE IS LESS THAN 65°F (ADJ.).
- AND THE SUPPLY AIR TEMPERATURE IS BELOW HEATING SETPOINT.
- AND THE FAN STATUS IS ON.

SUPPLY AIR TEMPERATURE:

THE CONTROLLER SHALL MONITOR THE SUPPLY AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW SUPPLY AIR TEMP: IF THE SUPPLY AIR TEMPERATURE IS LESS THAN 45°F (ADJ.).

**NOTE:** NEW MECHANICAL EQUIPMENT SHALL BE INTEGRATED WITH THE EXISTING AUTOMATED LOGIC DIRECT DIGITAL CONTROL (DDC) SYSTEM CURRENTLY INSTALLED AT MESCALERO SERVICE UNIT UNDER THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR SYSTEM INTEGRATION AND PROGRAMMING UNDER THIS SCOPE OF WORK. REFERENCE SECTION 23 09 23 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

#### ROOF-TOP PACKAGED HVAC UNIT

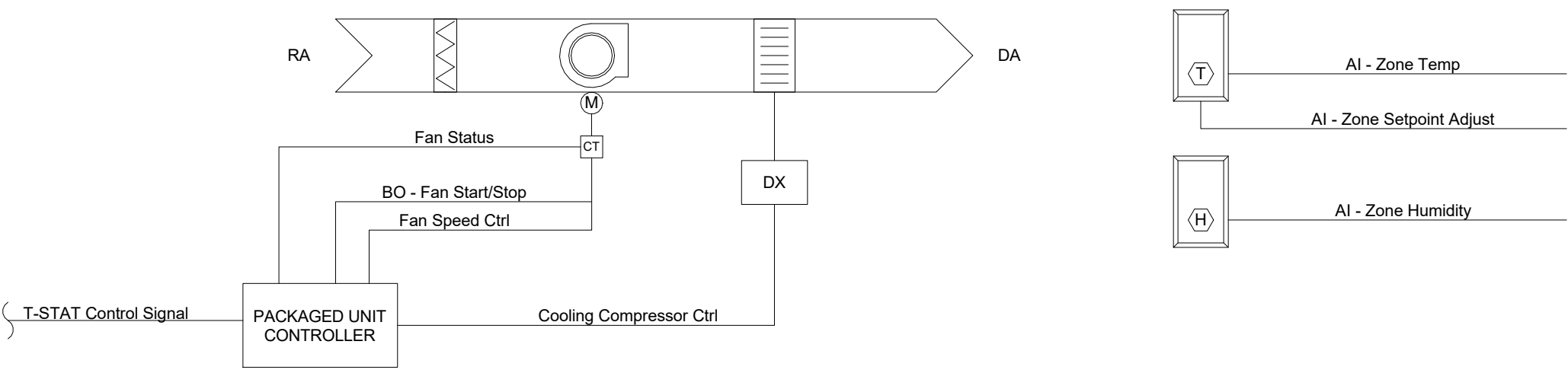
SCALE: N.T.S.

6  
M-9

m	DESCRIPTION	DATE	07/20/2018
	AMENDMENT 002	10/14/2021	
	ARCHITECTURAL	MECHANICAL	ELECTRICAL
	PLUMBING		
C	MARK	02	APPROVED
	STAMP	KYLE BEST 2018 PROFESSIONAL ENGINEER	
	CONSULTANT	ROCK GAP P E N N S Y L V A N I A	
	INDIAN HEALTH SERVICE	INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	
B	MESCALERO SERVICE UNIT	318 ABALONE LOOP MESCALERO, NM 88503	
	RENOVATION & ADDITION		
	MECHANICAL CONTROLS		
	DRWN BY	VICUNA	
A	CHKD BY	BEST	
	SCALE	12" = 1'-0"	
	DATE	07/20/2018	
	M-9		
SHEET	PROJECT NUMBER	117043	
	of		



\\gym-fserver\users\slalahG\Documents\20-107 IHS Mescalero\_MEP\_v20\_islahg\MLF.rvt



RUN CONDITIONS - CONTINUOUS:  
THE UNIT SHALL RUN CONTINUOUSLY AND SHALL MAINTAIN:

- A 75°F (ADJ.) COOLING SETPOINT.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE TEMP: IF THE ZONE TEMPERATURE IS GREATER THAN THE COOLING SETPOINT BY A USER DEFINABLE AMOUNT (ADJ.).

ZONE SETPOINT ADJUST:

THE OCCUPANT SHALL BE ABLE TO ADJUST THE ZONE TEMPERATURE COOLING SETPOINT FROM THE DDC OPERATOR'S CONTROL PANEL.

EMERGENCY SHUTDOWN:

THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING AN EMERGENCY SHUTDOWN SIGNAL.

SMOKE DETECTION:

THE UNIT SHALL SHUT DOWN AND GENERATE AN ALARM UPON RECEIVING A SMOKE DETECTOR STATUS.

FAN:

THE FAN SHALL RUN ANYTIME THE UNIT IS COMMANDED TO RUN, UNLESS SHUTDOWN ON SAFETIES.

COOLING STAGES:

THE CONTROLLER SHALL MEASURE THE ZONE TEMPERATURE AND MODULATE THE COOLING TO MAINTAIN ITS COOLING SETPOINT. TO PREVENT SHORT CYCLING, THERE SHALL BE A USER DEFINABLE (ADJ.) DELAY BETWEEN MODULATION, AND THE COMPRESSOR SHALL HAVE A USER DEFINABLE (ADJ.) MINIMUM RUNTIME.

THE COOLING SHALL BE ENABLED WHENEVER:

- THE ZONE TEMPERATURE IS ABOVE COOLING SETPOINT.
- AND THE FAN IS ON.

DISCHARGE AIR TEMPERATURE:

THE CONTROLLER SHALL MONITOR THE DISCHARGE AIR TEMPERATURE.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS GREATER THAN 120°F (ADJ.).
- LOW DISCHARGE AIR TEMP: IF THE DISCHARGE AIR TEMPERATURE IS LESS THAN 40°F (ADJ.).

FAN STATUS:

THE CONTROLLER SHALL MONITOR THE FAN STATUS.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- FAN FAILURE: COMMANDED ON, BUT THE STATUS IS OFF.
- FAN IN HAND: COMMANDED OFF, BUT THE STATUS IS ON.
- FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ZONE HUMIDITY:

THE CONTROLLER SHALL MONITOR THE ZONE HUMIDITY.

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH ZONE HUMIDITY: IF THE ZONE HUMIDITY IS GREATER THAN 70% (ADJ.).
- LOW ZONE HUMIDITY: IF THE ZONE HUMIDITY IS LESS THAN 35% (ADJ.).

#### COMPUTER ROOM AC -- CONTINUOUS

SCALE: N.T.S.

1

M-10

#### EXHAUST FAN - ROOM PRESSURIZATION CONTROL (EF-2)

RUN CONDITIONS - OCCUPIED:

THE FAN SHALL RUN ACCORDING TO AN OCCUPANCY SIGNAL FROM A ROOM MOUNTED PRESSURIZATION MONITOR.

CONTROL - BUILDING STATIC PRESSURE:

THE EXHAUST FAN SHALL RUN WHEN COMMANDED ON.

THE CONTROLLER SHALL MEASURE ROOM STATIC PRESSURE AND MODULATE THE

EXHAUST FAN SPEED TO MAINTAIN A ROOM STATIC PRESSURE SETPOINT OF

-0.01 IN H<sub>2</sub>O (ADJ. MIN.). THE EXHAUST FAN SPEED SHALL NOT DROP BELOW 20% (ADJ.).

ALARMS SHALL BE PROVIDED AS FOLLOWS:

- HIGH BUILDING STATIC PRESSURE: IF THE BUILDING STATIC PRESSURE IS 25% (ADJ.) GREATER THAN SETPOINT.
- LOW BUILDING STATIC PRESSURE: IF THE BUILDING STATIC PRESSURE IS 25% (ADJ.) LESS THAN SETPOINT.

EXHAUST AIR DAMPER:

THE EXHAUST AIR DAMPER SHALL OPEN ANY TIME THE UNIT RUNS AND SHALL CLOSE ANYTIME THE UNIT STOPS. THE EXHAUST AIR DAMPER SHALL CLOSE 30 SEC. (ADJ.) AFTER THE FAN STOPS.

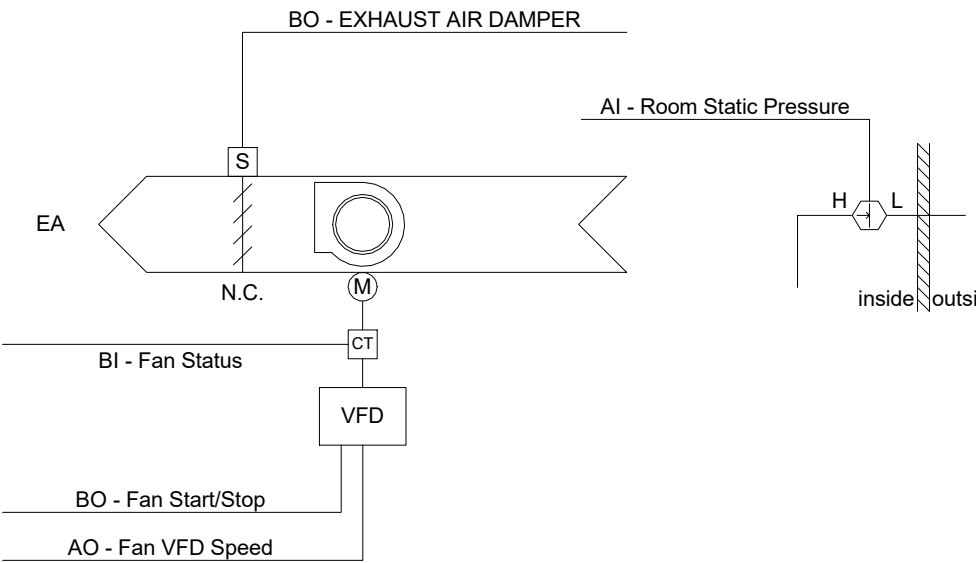
ALARMS SHALL BE PROVIDED AS FOLLOWS:

- DAMPER FAILURE: COMMANDED OPEN BUT THE STATUS IS CLOSED
- DAMPER IN HAND: COMMANDED CLOSED, BUT THE STATUS IS OPEN.

FAN STATUS:  
THE CONTROLLER SHALL MONITOR THE FAN STATUS.  
ALARMS SHALL BE PROVIDED AS FOLLOWS:  
FAN FAILURE: COMMANDED ON BUT STATUS IS OFF.  
FAN IN HAND: COMMANDED OFF BUT STATUS IS ON.  
FAN RUNTIME EXCEEDED: FAN STATUS RUNTIME EXCEEDS A USER DEFINABLE LIMIT (ADJ.).

ROOM PRESSURIZATION STATUS:  
THE CONTROLLER SHALL MONITOR THE OUTPUT FROM THE ROOM LEVEL PRESSURE CONTROL UNIT (TRIATEK FMS-1655).

ALARMS SHALL BE PROVIDED AS FOLLOWS:  
ROOM PRESSURE OUT OF BOUNDS: CONTROLLER ISSUES ROOM PRESSURE ALARM



#### EXHAUST FAN -- AIR PRESSURIZATION CONTROL

SCALE: N.T.S.

1

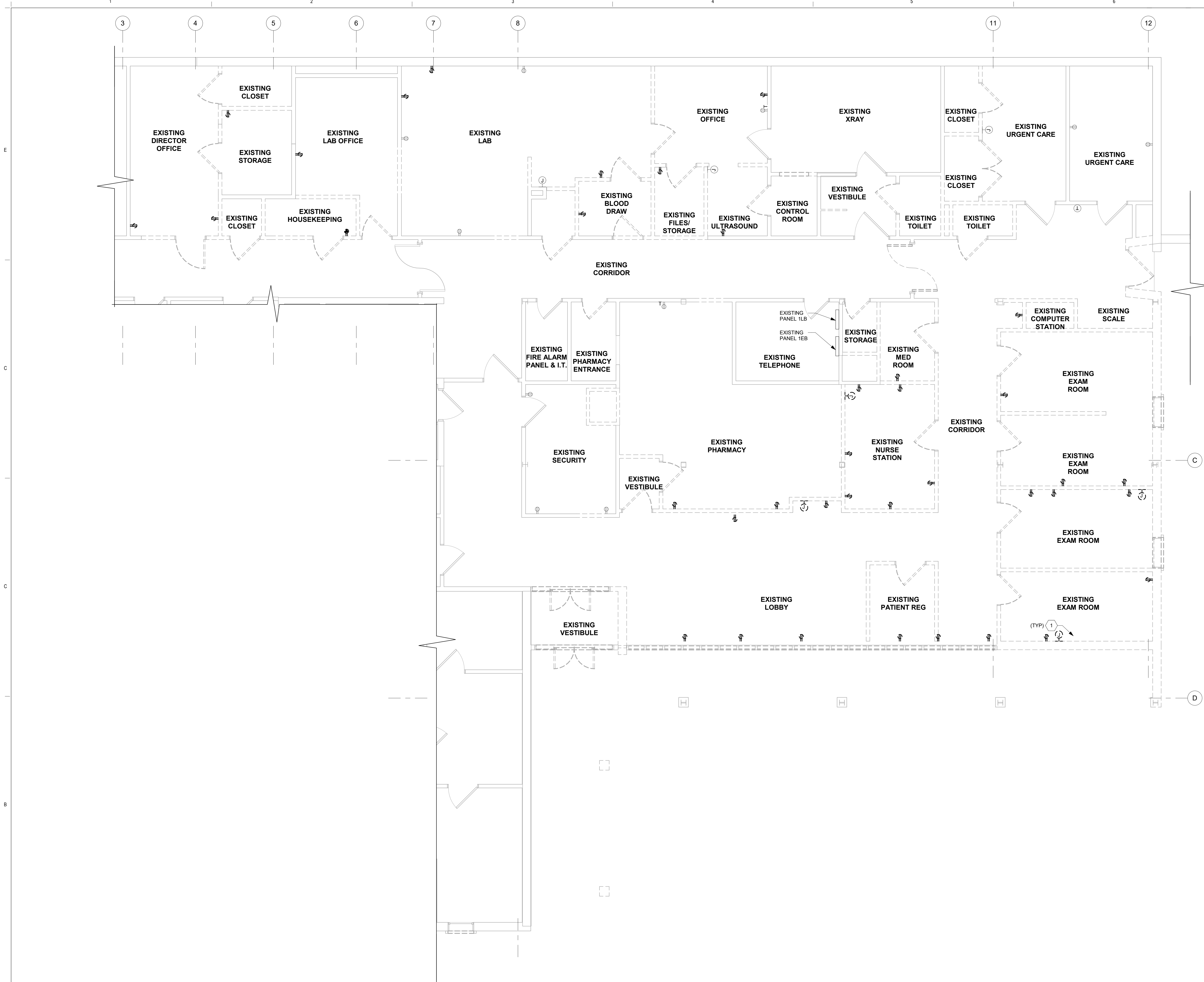
M-10

**NOTE:** NEW MECHANICAL EQUIPMENT SHALL BE INTEGRATED WITH THE EXISTING AUTOMATED LOGIC DIRECT DIGITAL CONTROL (DDC) SYSTEM CURRENTLY INSTALLED AT MESCALERO SERVICE UNIT UNDER THIS CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR SYSTEM INTEGRATION AND PROGRAMMING UNDER THIS SCOPE OF WORK. REFERENCE SECTION 23 09 23 OF THE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

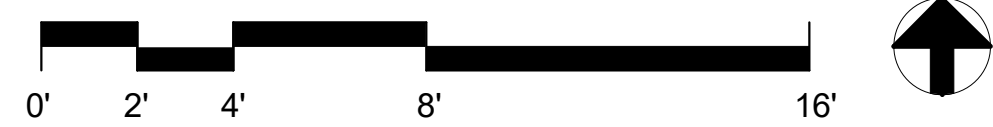
MARK	DATE	DESCRIPTION	MARK	DATE	DESCRIPTION
02	07/20/2018	AMENDMENT 002	02	10/14/2021	AMENDMENT 002
APPROVED		ARCHITECTURAL	APPROVED		MECHANICAL
		ELECTRICAL			PLUMBING
<b>STAMP</b>					
<b>CONSULTANT</b>					
<b>INDIAN HEALTH SERVICE</b>					
<b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b>					
<b>INDIAN HEALTH SERVICE</b>					
<b>OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING</b>					
<b>ALBUQUERQUE AREA OFFICE</b>					
4101 Indian School Road NE Albuquerque, New Mexico 87110					
<b>MESCALERO SERVICE UNIT</b>					
<b>318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY</b>					
<b>RENOVATION &amp; ADDITION</b>					
<b>MECHANICAL CONTROLS</b>					
<b>DRWN BY</b>					
<b>Author</b>					
<b>CHKD BY</b>					
<b>Checker</b>					
<b>SCALE</b>					
<b>12" = 1'-0"</b>					
<b>DATE</b>					
<b>07/20/2018</b>					
<b>M-10</b>					
<b>PROJECT NUMBER</b>					
<b>117043</b>					
<b>SHEET</b>					
<b>of</b>					



\\ngm-fserver\users\sls\sls\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiag\MLF.rvt



1 RECEPTACLE DEMO PLAN  
1/4" = 1'-0"

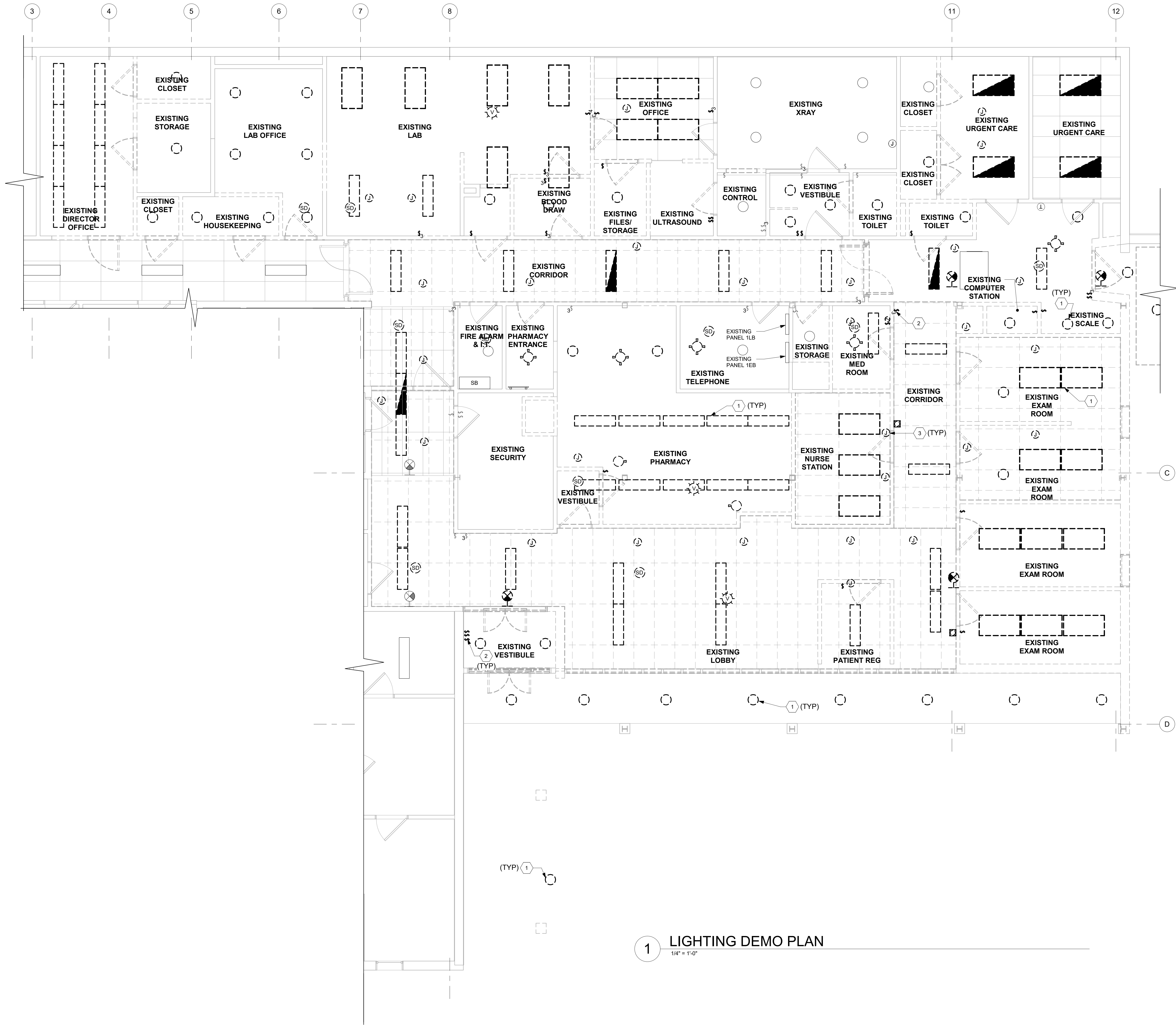


- GENERAL NOTES:**
- A CONTRACTOR TO REMOVE RECEPTACLES, J-BOXES CONDUIT, AND CONDUCTORS IN WALL INDICATED TO BE DEMOLISHED IN REMODEL AREA. CIRCUITS THAT FEED THROUGH AN AREA WHERE WALLS REMOVED WILL REQUIRE CIRCUIT ROUTED AROUND AREA TO MAINTAIN SERVICE OUTSIDE THE AREA.
  - B CONTRACTOR TO COORDINATE WITH HOSPITAL MANAGER 1 WEEK IN WRITING FOR OUTAGE TO REROUTE CIRCUITS IN REMODEL AREA.
  - C CONTRACTOR TO COORDINATE REMODEL AREA WITH THE ARCHITECTURAL PLANS.
  - D TELEPHONE LINES WILL BE DEMOLISHED BY IHS/MSU I.T. DEPARTMENT
- KEYED NOTES**
- 1 REMOVE EXISTING RECEPTACLES. TYPICAL.

MARK	DATE	DESCRIPTION	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
	07/20/2018						
<b>STAMP</b> JOSE H. KRAYER REGISTERED PROFESSIONAL ENGINEER NO. 5026 7/20/18 ALBUQUERQUE, NM							
<b>CONSULTANT</b> ROCK GAP ARCHITECTS P.C. 1000 N. 10TH ST., SUITE 100 ALBUQUERQUE, NM 87102							
<b>INDIAN HEALTH SERVICE</b> SHS 5501 ALBUQUERQUE, NM 87110							
<b>DEPARTMENT OF HEALTH AND HUMAN SERVICES</b> INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110							
<b>MESCALERO SERVICE UNIT</b> 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY <b>RENOVATION &amp; ADDITION</b> <b>RECEPTACLE DEMO PLAN</b>							
<b>DRWN BY</b> VICUNA <b>CHKD BY</b> KRAYER <b>SCALE</b> 1/4" = 1'-0" <b>DATE</b> 07/20/2018							
<b>DE-1</b>							
<b>PROJECT NUMBER</b> 117043							
<b>SHEET</b> of							

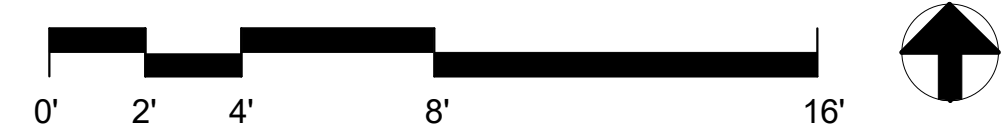


\\ngm-fserver\users\isaiah\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiah\MLF.rvt



1 LIGHTING DEMO PLAN  
1/4" = 1'-0"

- GENERAL NOTES:**
- A. CONTRACTOR TO REMOVE LIGHT FIXTURES AND SALVAGE AS DIRECTED BY OWNER.
  - B. CONTRACTOR TO COORDINATE REMODEL AREA WITH THE ARCHITECTURAL PLANS.
  - C. TELEPHONE LINES WILL BE DEMOLISHED BY IHS/MSU I.T. DEPARTMENT
- # KEYED NOTES**
- 1 EXISTING LIGHT FIXTURE TO BE REMOVED. TYPICAL.
  - 2 EXISTING LIGHT SWITCHES TO BE REMOVED. TYPICAL.
  - 3 CONTRACTOR TO REMOVE LIGHTING CIRCUITS (CONDUIT, CONDUCTORS, J-BOXES) BACK TO PANELS 1LB & 1EB WITHIN REMODEL AREA. THERE IS ONE EMERGENCY CIRCUIT THAT PASSES THROUGH THE AREA TO EMERGENCY LIGHTS OUTSIDE THE AREA. REMOVE EMERGENCY LIGHTS WITHIN AREA AND CIRCUIT TO REMAIN IN PLACE.

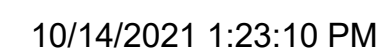


DESCRIPTION	DATE	MARK	STAMP	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
	07/20/2018							
<b>ROCK GAP</b> CONSULTANTS ARCHITECTS ENGINEERS PLANNERS INTERIORS LANDSCAPE ARCHITECTS								
<b>INDIAN HEALTH SERVICE</b> DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110								
<b>MESCALERO SERVICE UNIT</b> 318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY <b>RENOVATION &amp; ADDITION</b> <b>LIGHTING DEMO PLAN</b>								
DRWN BY VICUNA CHKD BY KRAYER SCALE 1/4" = 1'-0" DATE 07/20/2018								
DE-2								
PROJECT NUMBER 117043								
SHEET of								





- 1 REMOVE EXISTING DATA DROPS.
- 2 REMOVE AND HOLD CAMERAS FOR RE-INSTALLATION.

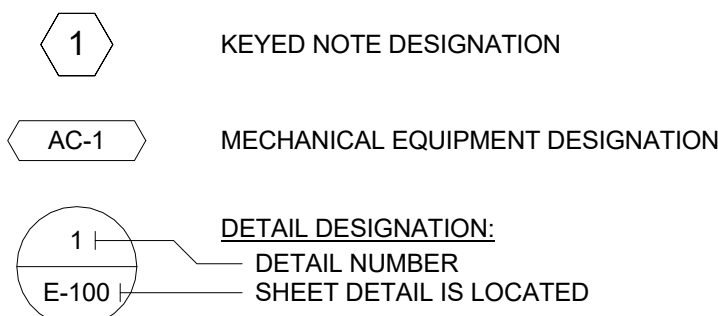




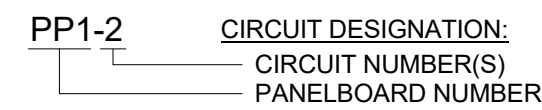
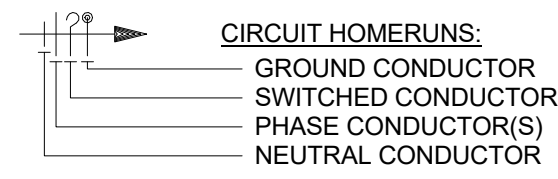
\\vgm-fs-server\users\lisaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isiaihg\MLF.rvt

## ELECTRICAL SYMBOL LEGEND

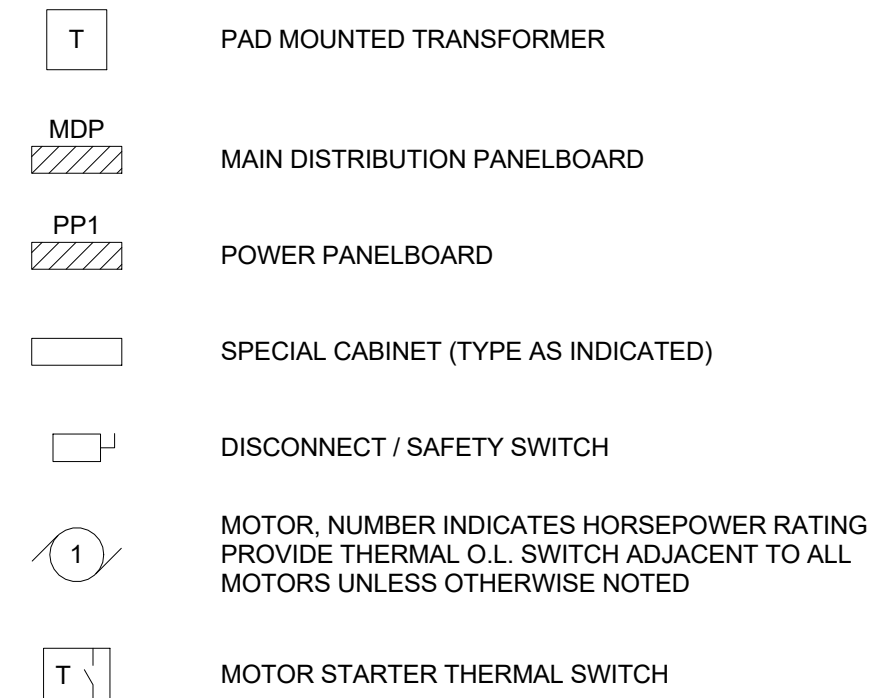
### GENERAL



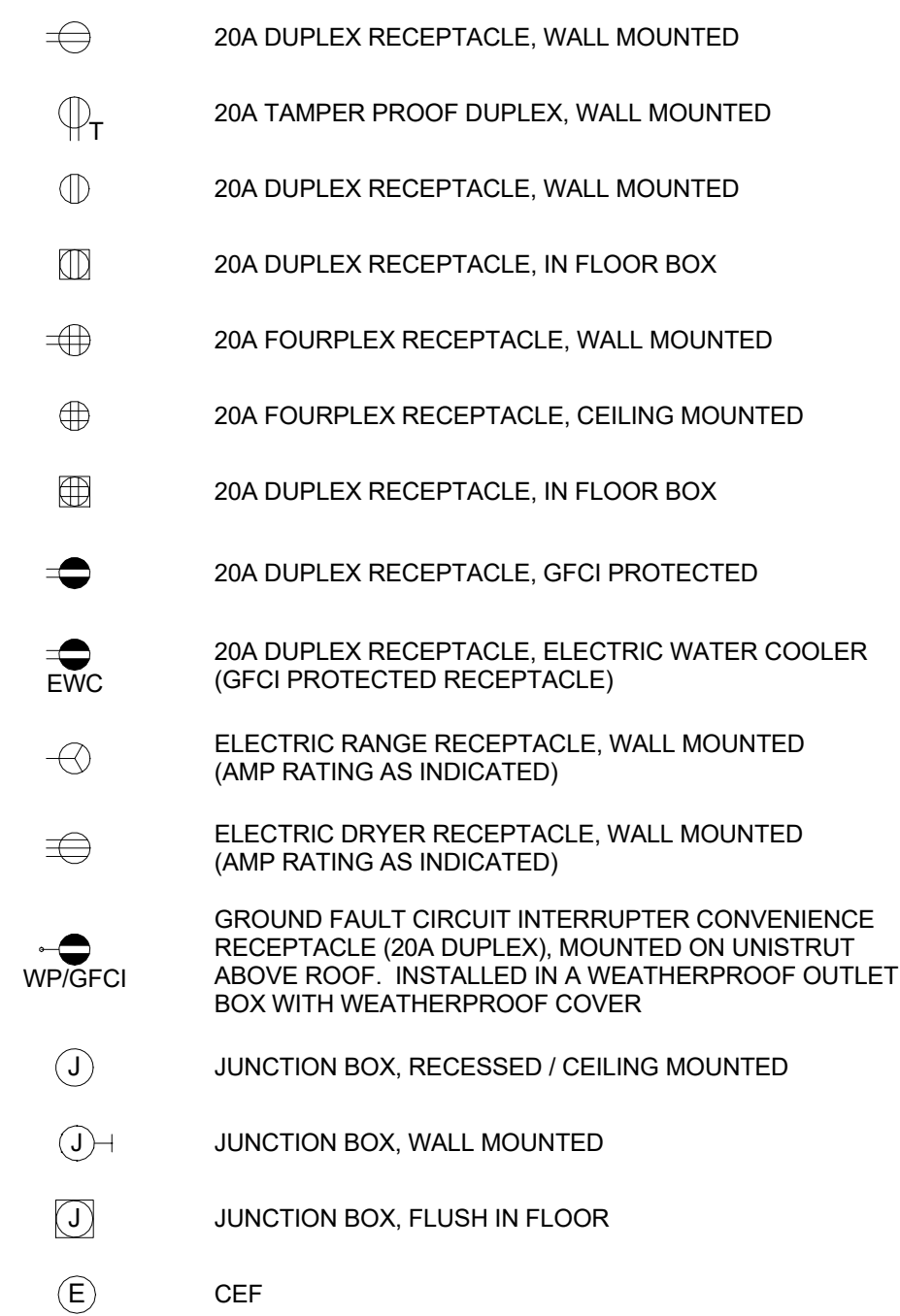
### CIRCUITING / RACEWAYS



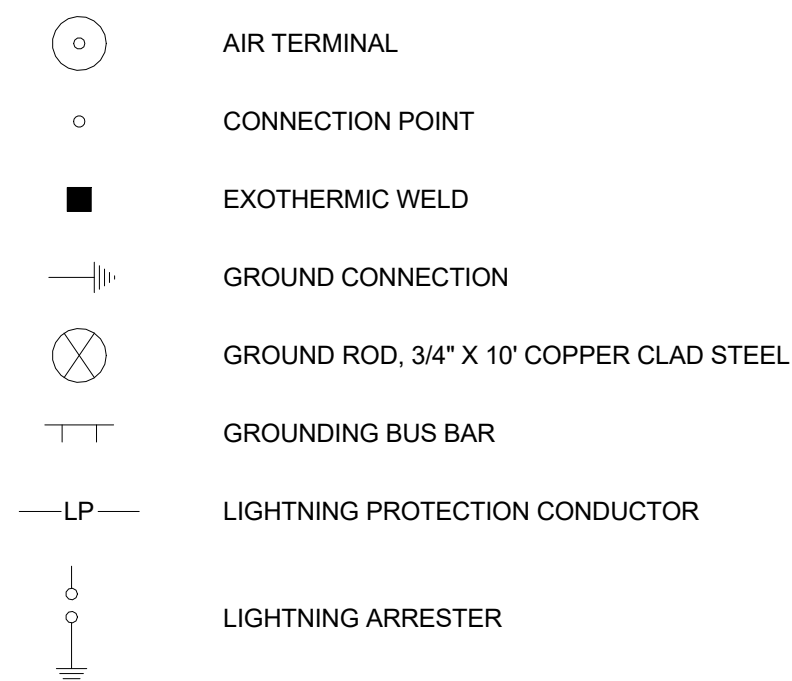
### PANELBOARDS / EQUIPMENT



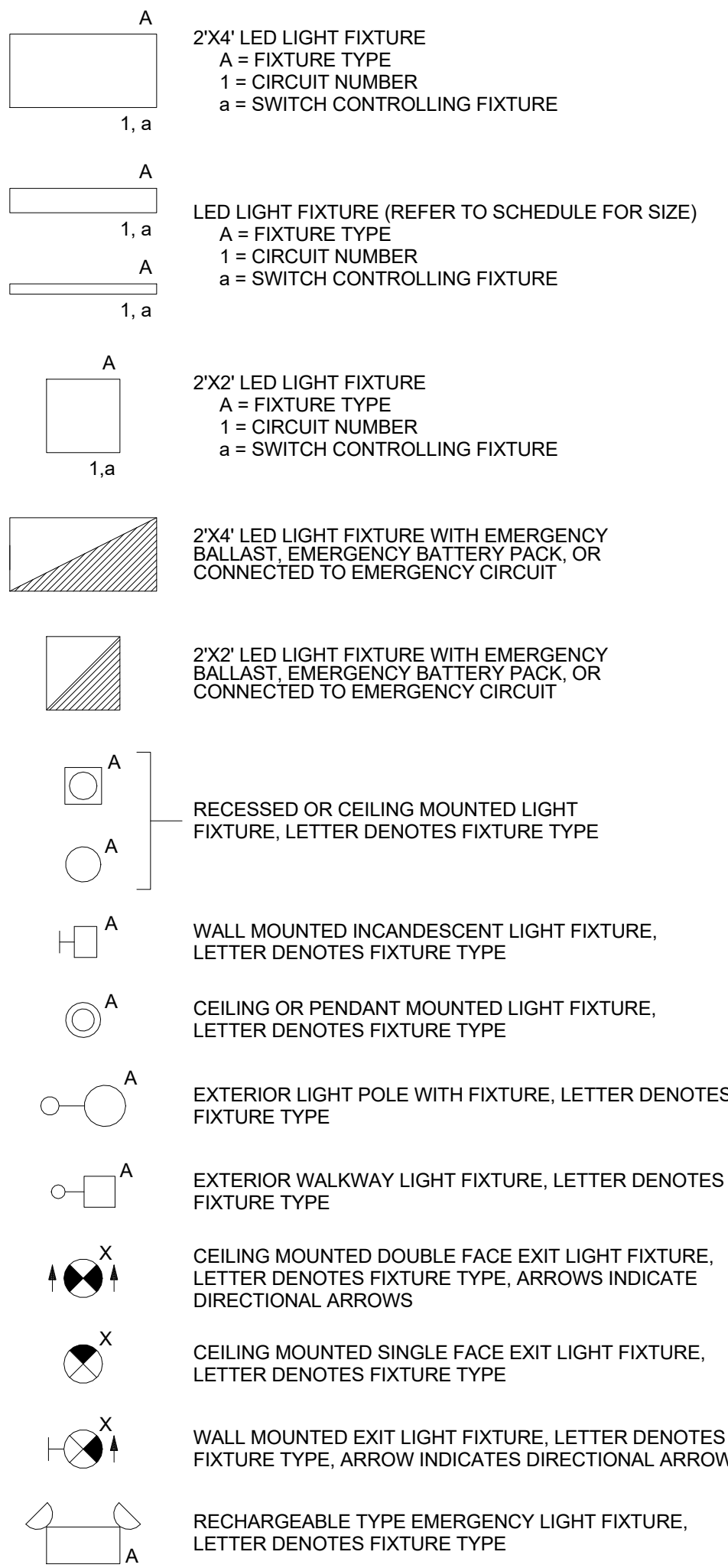
### RECEPTACLES / JUNCTION BOXES



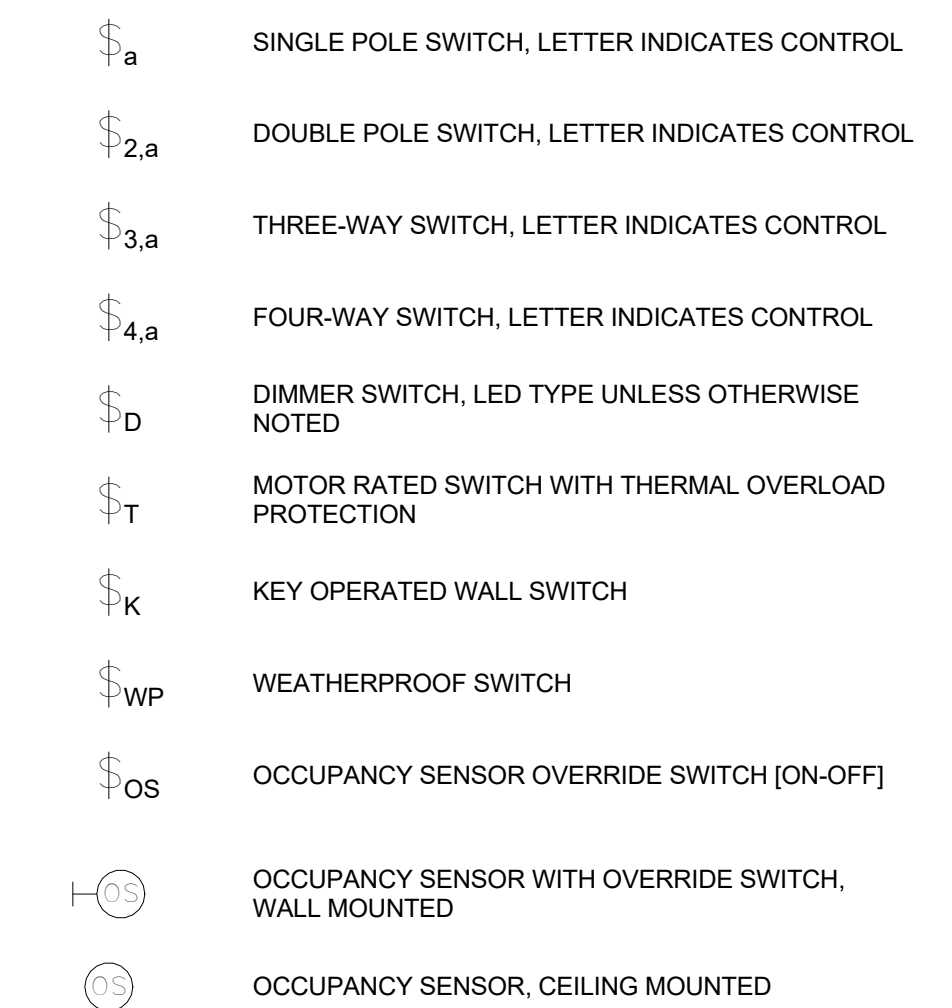
### GROUNDING / LIGHTNING PROTECTION



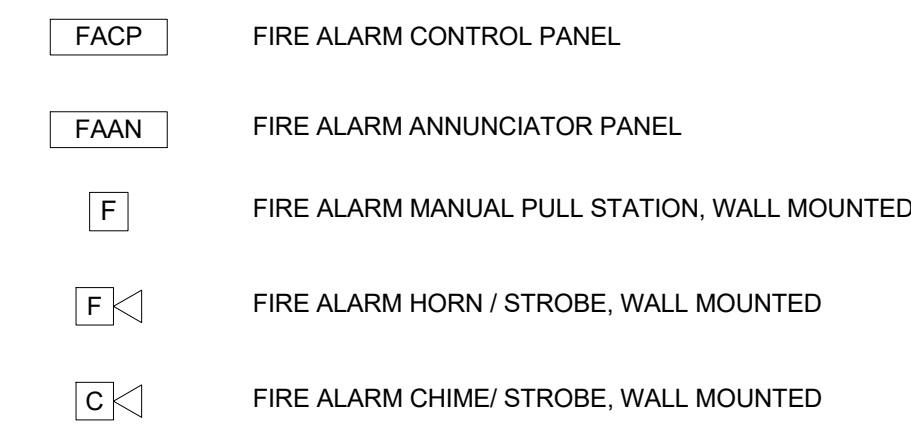
### LIGHTING



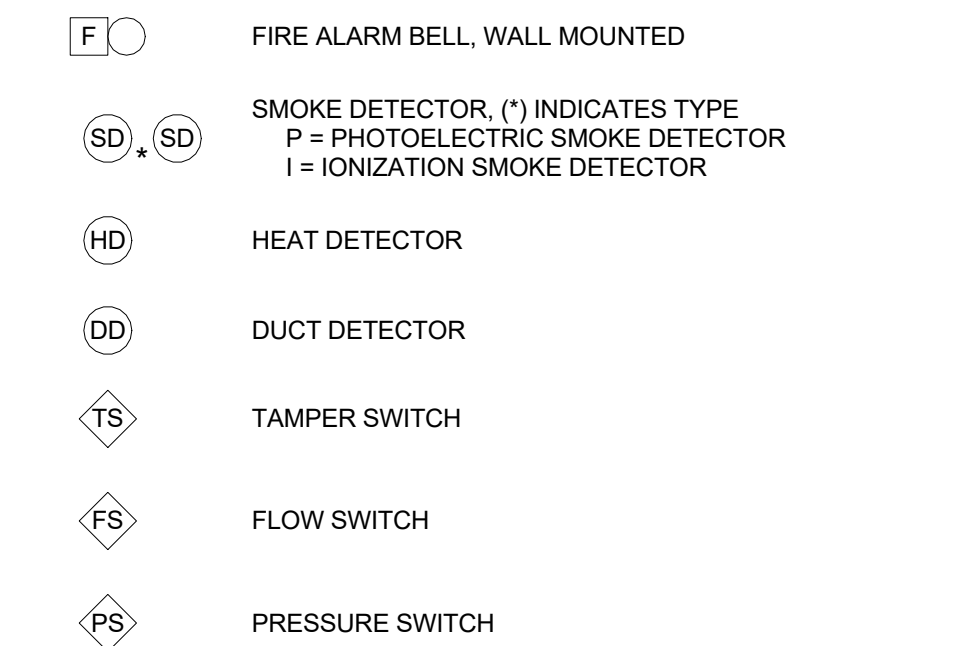
### SWITCHES



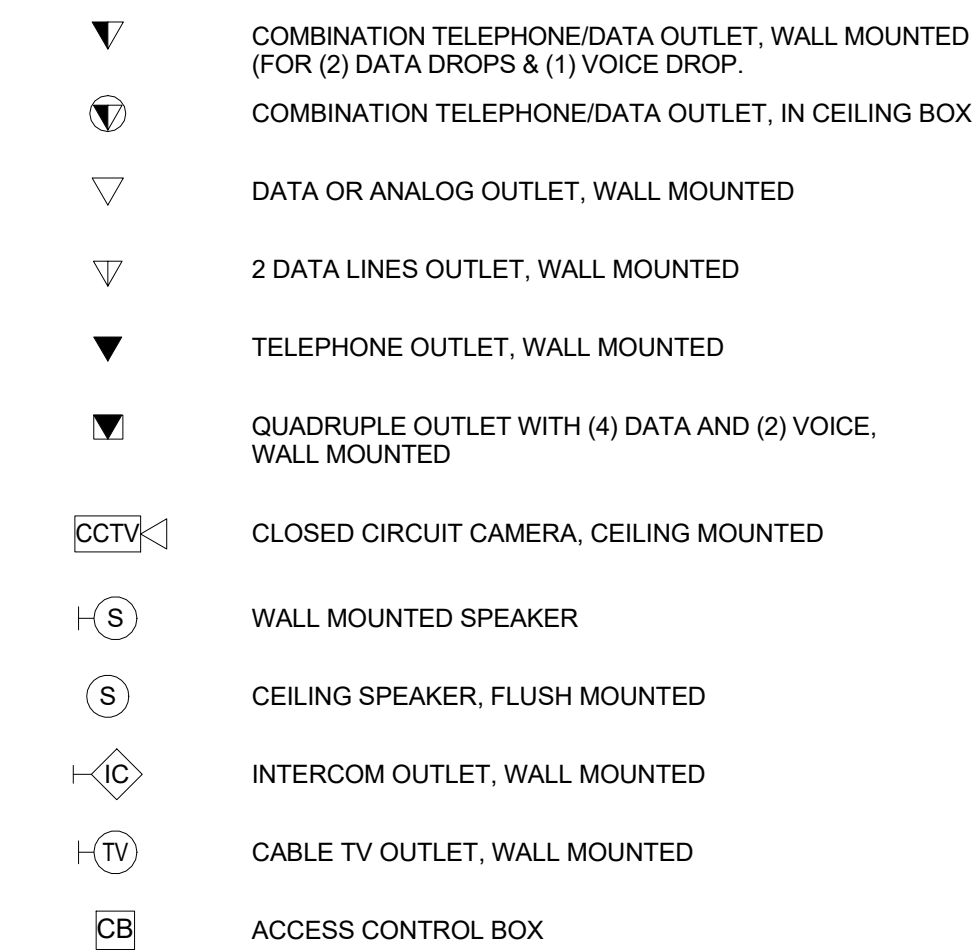
### FIRE ALARM SYSTEM



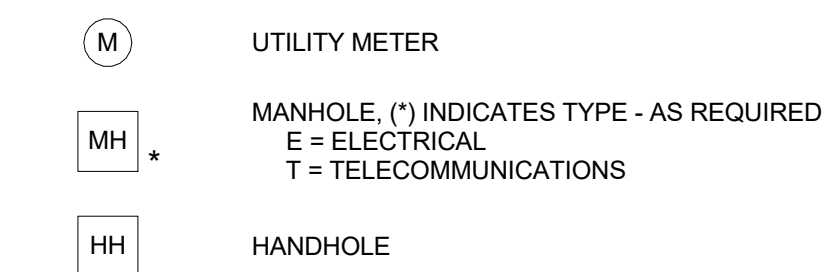
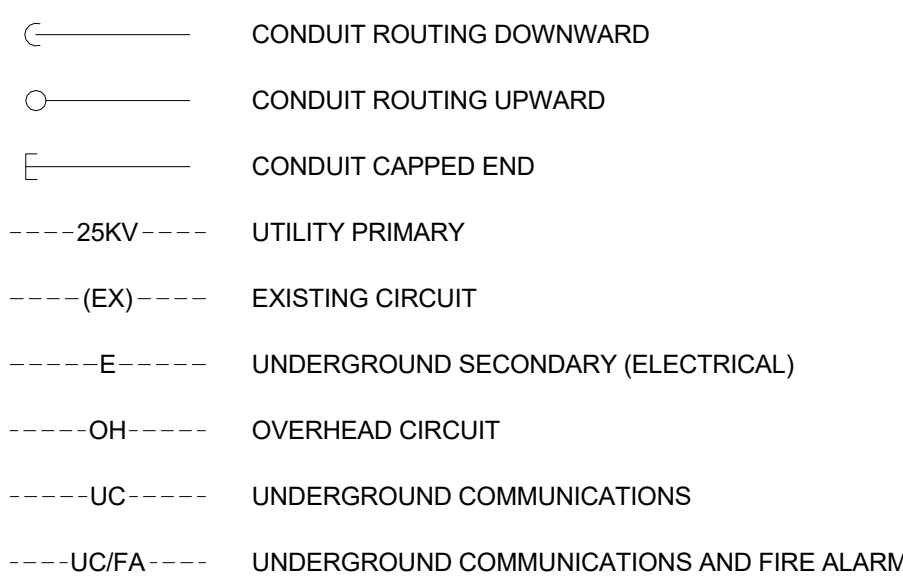
(NOT ALL SYMBOLS AND/OR ABBREVIATIONS SHOWN IN THIS LEGEND WILL BE USED IN THIS CONTRACT)



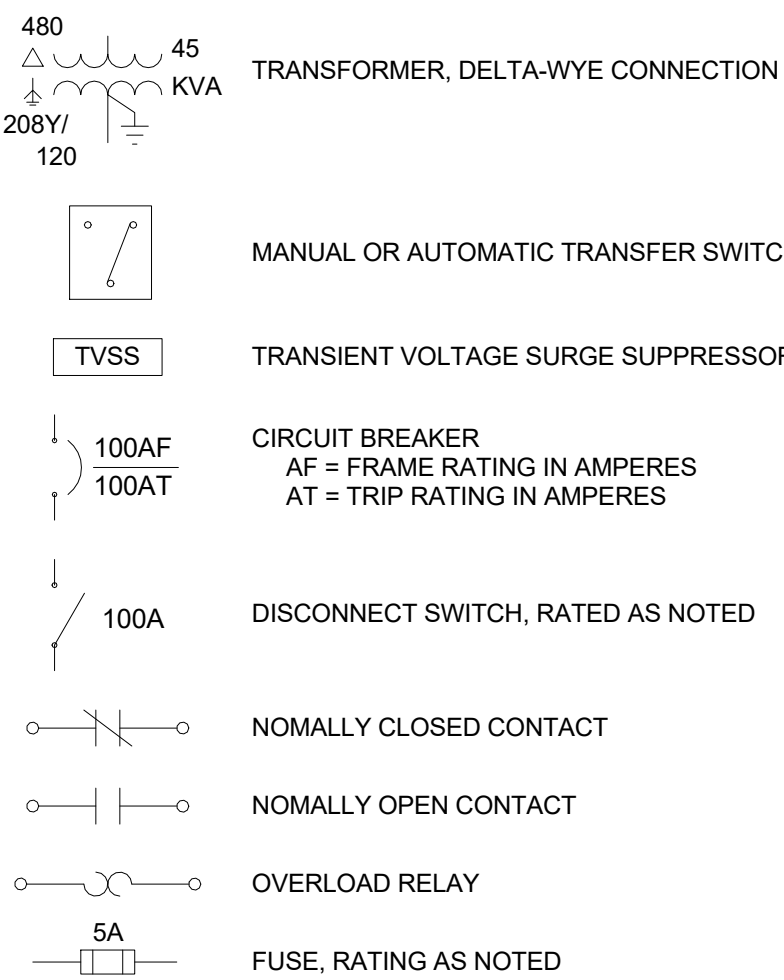
### COMMUNICATIONS / SPECIAL SYSTEMS



### DISTRIBUTION



### ONE-LINE DIAGRAM



## ABBREVIATIONS

A, AMP	AMPERE	SCR	SHORT CIRCUIT RATING
AC	ALTERNATING CURRENT	SHLD	SHIELDED
AC	ABOVE COUNTER	SQ	SQUARE
A.F.F.	ABOVE FINISH FLOOR	SW	SWITCH
A.F.G.	ABOVE FINISH GRADE	SWB	SWITCHBOARD
AIC	AMPERES INTERRUPTING CURRENT	SWGR	SWITCHGEAR
APPROX.	APPROXIMATELY	SYM	SYMMETRICAL
ATS	AUTOMATIC TRANSFER SWITCH		
AWG.	AMERICAN WIRE GAUGE	T	TRANSFORMER
		TC	TERMINAL CABINET
BC	BARE COPPER	TB	TELEPHONE EQUIPMENT BOARD
BFG	BELOW FINISHED GRADE	TELE	TELEPHONE
		TTB	TELEPHONE TERMINAL BOARD
C	CONDUIT	TV	TELEVISION
CB	CIRCUIT BREAKER	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
CCTV	CLOSED CIRCUIT TELEVISION	TYP.	TYPICAL
CKT	CIRCUIT		
CLG	CEILING	UH	UNIT HEATER
COMM	COMMUNICATIONS	UG	UNDERGROUND
CONC	CONCRETE	UL	UNDERWRITERS LABORATORIES
CU	COPPER	UON	UNLESS OTHERWISE NOTED
		V	VOLT
DC	DIRECT CURRENT	VA	VOLT AMPERE
DISC.	DISCONNECT		
DN	DOWN	W	WATT OR WIRE
DWG	DRAWING	W/	WITH
		W/O	WITHOUT
(E), (EX)	EXISTING	WP	WEATHERPROOF
EF	EXHAUST FAN	XFMR	TRANSFORMER
EMH	ELECTRICAL MANHOLE		
ELEC	ELECTRICAL		
EMT	ELECTRICAL METALLIC TUBING		
EOLD	END OF LINE DEVICE		
EOP	EQUIPMENT		
EWC	ELECTRIC WATER COOLER		
FA	FIRE ALARM		
FACP	FIRE ALARM CONTROL PANEL		
FLA	FULL LOAD AMPERES		
FLEX	FLEXIBLE METAL CONDUIT		
FLR	FLOOR		
FO	FIBER OPTICS		
FT	FEET		
G, GND.	GROUND		
GFCI	GROUND FAULT CIRCUIT INTERRUPTER		
HH	HAND HOLE		
HID	HIGH INTENSITY DISCHARGE		
HOA	HAND-OFF-AUTOMATIC		
HP	HORSEPOWER		
HPS	HIGH PRESSURE SODIUM		
IG	ISOLATED GROUND		
IMC	INTERMEDIATE METAL CONDUIT		
IN	INCHES		
INC	INCANDESCENT		
JB	JUNCTION BOX		
KCMIL	THOUSAND CIRCULAR MILS		
KV	KILOVOLT		
KVA	KILOVOLT-AMPERE		
KW	KILOWATT		
KH	KILOWATT HOUR		
LAN	LOCAL AREA NETWORK		
LP	LIGHTING PANEL		
LT	LIQUID TIGHT		
LTG	LIGHTING		
MAX	MAXIMUM		
MCC	MOTOR CONTROL CENTER		
MDP	MAIN DISTRIBUTION PANELBOARD		
M	METER		
MH	MANHOLE OR METAL HALIDE		
MIN	MINIMUM		
MLO	MAIN LUGS ONLY		
MTD	MOUNTED		
N/A	NOT APPLICABLE		
NC	NORMALLY CLOSED		
NEC	NATIONAL ELECTRICAL CODE		
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION		
NIC	NOT IN CONTRACT		
NO	NORMALLY OPEN		
NL	NIGHT LIGHT		
NTS	NOT TO SCALE		
OC	ON CENTER		
OHP	OVERHEAD POWER		
OIP	OUTPUT		
PA	PUBLIC ADDRESS		
PB	PULL BOX		
PH	PHASE		
PNL	PANELBOARD		
PP	POWER PANEL		
PP	POWER POLE		
PSI	POUNDS PER SQUARE INCH		
PT	POTENTIAL TRANSFORMER		
PVC	POLYVINYL CHLORIDE		
PWR	POWER		
QTY	QUANTITY		
RCPT	RECEPTACLE		
RGS	RIGID GALVANIZED STEEL		
RM	ROOM		
RMC	RIGID METAL CONDUIT		
RMS	ROOT MEAN SQUARE		

## GENERAL NOTES:

- A IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE THEMSELVES WITH THE ENTIRE PROJECT PRIOR TO BID. THIS IS TO ALLOW FOR A COMPLETE AND ACCURATE BID PERTAINING TO SCOPE INDICATED ON THE DESIGN DRAWINGS & SPECIFICATIONS. ANY QUESTIONS THAT MAY ARISE IN REGARDS TO THE SCOPE OF WORK INDICATED, WHAT THE CONTRACTOR'S FUNCTIONS ARE OR ANY OTHER ISSUE RELATED TO THE PROJECT ITSELF SHALL BE IDENTIFIED DURING THE BID PERIOD AND COMMUNICATED TO THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.
- B IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE IN THEIR BID THE COSTS FOR INSTALLATION OF JUNCTION BOXES, CONDUIT SUPPORTS, OUTLET COVER PLATES, COORDINATION WITH OTHER TRADES, AND OTHER MISCELLANEOUS ITEMS THAT PERTAIN TO THE SCOPE OF WORK INDICATED.
- C ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) OR THE NATIONAL ELECTRICAL SAFETY CODE (NESC).
- D REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CEILING TYPE, HEIGHT, AND GENERAL BUILDING INFORMATION.
- E SEAL ALL CONDUIT PENETRATIONS WITH APPROVED FIRE RATED MATERIALS AS TO MAINTAIN FIREWALL RATINGS. REFER TO ARCHITECTURAL DRAWINGS FOR THE LOCATIONS OF ALL FIRE RATED WALLS.
- F IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY WALLS, CEILINGS, ETC. THAT HAS BEEN DAMAGED DURING THE CONSTRUCTION. REPAIR UTILIZING MATCHING MATERIALS, AND WORK SHALL BE DONE IN A PROFESSIONAL MANNER.
- G LOCATIONS OF ELECTRICAL EQUIPMENT AND ALL OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR EXACT LOCATION OF OTHER EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS.
- H ALL CONDUIT ROUTINGS SHOWN ON THE PLAN DRAWINGS ARE APPROXIMATE. EXACT ROUTINGS AND LOCATION OF CONDUITS SHALL BE COORDINATED IN THE FIELD AND INSTALLED AS FIELD CONDITIONS ALLOW.
- I ALL CONDUIT SHALL BE CONCEALED WITHIN NEW WALLS OR ABOVE THE NEW CEILING WHEN POSSIBLE.
- J ALL HOME RUN CIRCUITING SHALL BE 1/2" EMT CONDUIT, WITH #12 THHN COPPER WIRING (MINIMUM), UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER.
- K CONTRACTOR SHALL INSTALL NEW PULL BOXES AND JUNCTION BOXES AS NEEDED OR WHEREVER IT IS REQUIRED BY N.E.C. ALL NEW WIRING SHALL BE IDENTIFIED AND TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS.
- L THE MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OTHER TRADES AND REFERENCE THE ARCHITECTURAL INFORMATION FOR EXACT HEIGHTS OF DEVICES PRIOR TO ELECTRICAL ROUGH-IN, UNLESS OTHERWISE NOTED. THIS ALSO PERTAINS TO LOCATIONS OF WALL BOXES, SENSORS, T-STATS, SWITCHES, ETC.
- M SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION INDICATED ON THE DRAWINGS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER FOR CLARIFICATION AND DIRECTION PRIOR TO COMMENCING WORK.
- N WHEREVER REQUIRED, THE CONTRACTOR SHALL FURNISH AND INSTALL UNISTRUT CHANNELS, ANGLE IRON, THREADED ROD OR ANY ADDITIONAL SUPPORTS REQUIRED TO ACCOMMODATE THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND MATERIALS.
- O UPON COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL CHANGES THAT HAVE BEEN MADE AS PART OF THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN SCHEDULES FOR ALL PANELS AND LABEL ALL PANELS AND EQUIPMENT AS REQUIRED.
- P FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT PLUS 18" FROM FLOOR TO CENTERLINE DIMENSION EXCEPT WHERE NOTED OTHERWISE
- Q FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR TO CENTER LINE DIMENSION.
- R ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL COMPLY WITH ASTM E814.
- S CONNECTION FOR ELECTRIC WATER COOLER (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE DIRECTLY BELOW AND CENTERED. CONTRACTOR TO VERIFY WHAT TYPE OF WATER COOLER TO BE INSTALLED.
- T MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR TO CENTERLINE DIMENSION UNLESS NOTED OTHERWISE.
- U MOUNT ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT +90" ABOVE FINISHED FLOOR OR 6" BELOW CEILING WHICHEVER IS LOWER EXCEPT WHERE OTHERWISE NOTED.
- V CONTRACTOR SHALL COORDINATE ALL CEILING MOUNTED DEVICES WITH LUMINAIRES, SPRINKLER HEADS AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILL.
- W CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION.
- X ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF OPERATION AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATION EQUIPMENT ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE.
- Y CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE PREPARED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
- Z CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.

DESCRIPTION	DATE	MARK	STAMP	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
AMENMENT 002	07/20/2018	02	JOSEPH H. KRAYER Professional Engineer No. 5026					
PROJECT	318 ABALONE LOOP MESCALERO, NM 88603	PROJECT NUMBER	117043					
SHEET	of							

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE  
Albuquerque, New Mexico 87110

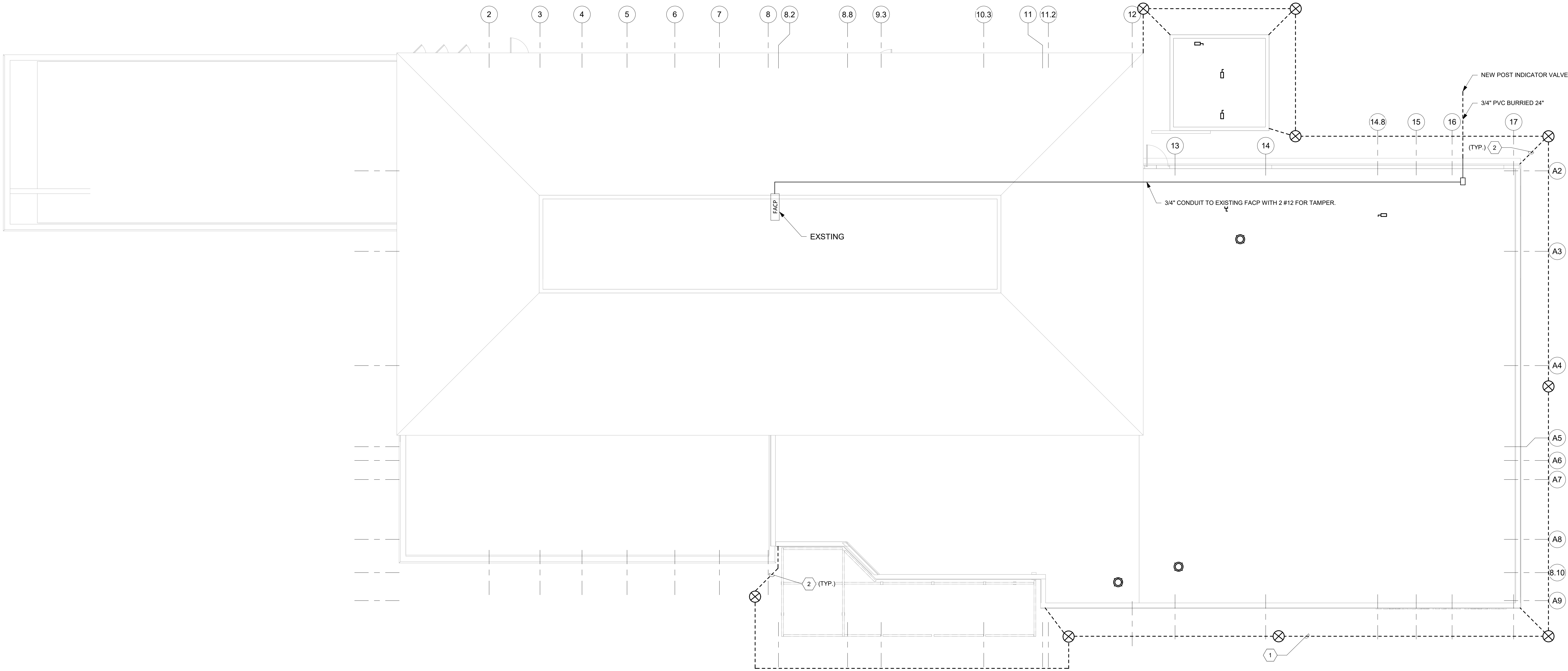
MESCALERO SERVICE UNIT  
RENOVATION & ADDITION  
ELECTRICAL SYMBOLS LEGENDS & GENERAL NOTES

DRWN BY  
VICUNA  
CHKD BY  
KRAYER  
SCALE  
12" = 1'-0"  
DATE  
07/20/2018

E-1  
PROJECT NUMBER  
117043



\\gym-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiag\MLF.rvt



1 PARTIAL ELECTRICAL SITE PLAN  
1/8" = 1'-0"

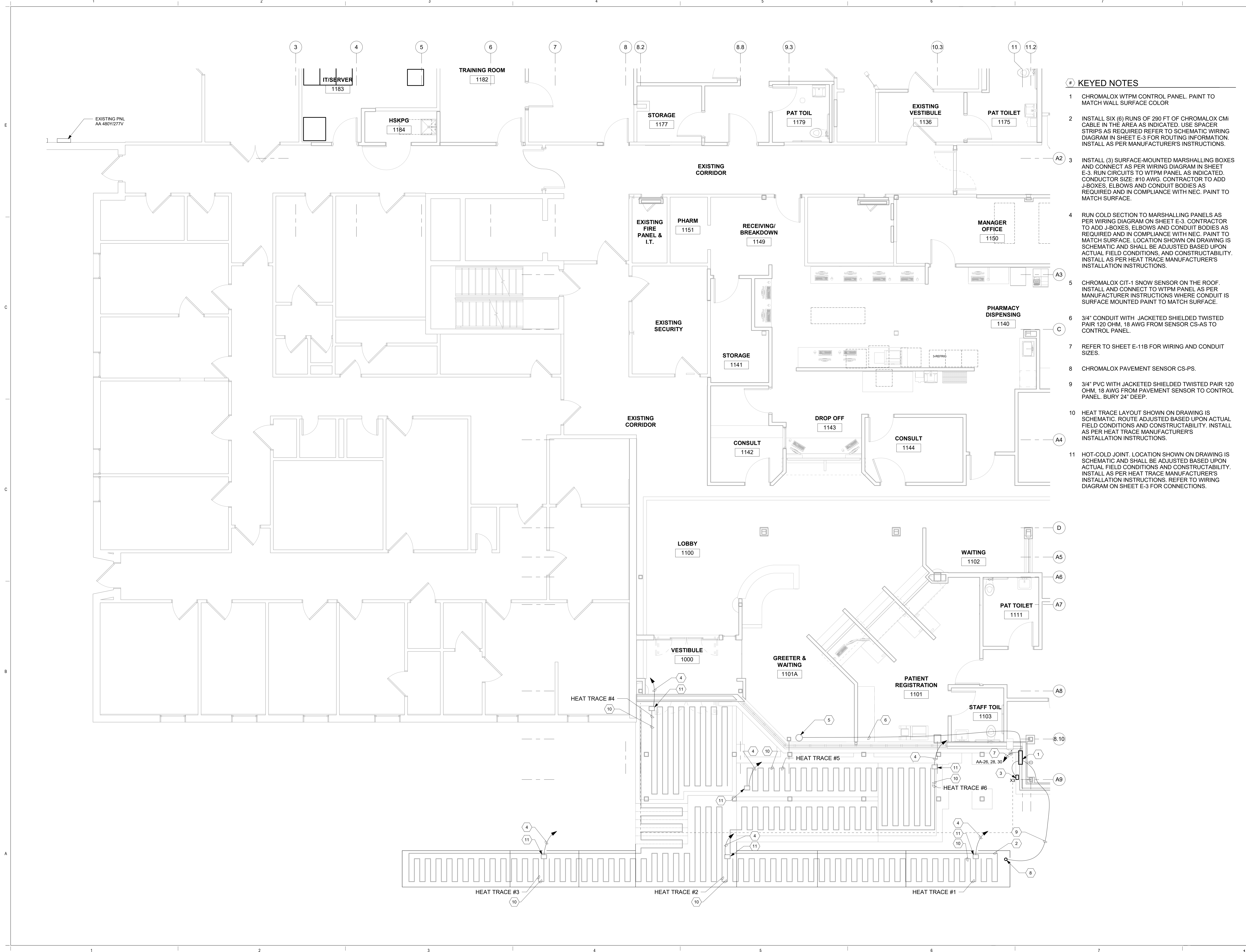
- GENERAL NOTES:**
- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
  - B REFER TO LP-1 FOR LIGHTNING PROTECTION SYSTEM.
- KEYED NOTES**
- 1 4/0 BARE CU COUNTERPOISE BURIED 24" DEEP 5'-0" FROM BUILDING. COORDINATE WITH SHEET LP-1 AND CIVIL SITE PLAN.
  - 2 COUNTERPOISE CONNECTION TO DOWN CONDUCTOR.



STAMP	MARK	DATE	DESCRIPTION
	02	07/20/2018	AMENDMENT 002
	02	10/14/2021	AMENDMENT 002
	APPROVED		
STAMP	ARCHITECTURAL	MECHANICAL	ELECTRICAL
	PLUMBING		
CONSULTANT			
INDIAN HEALTH SERVICE			
DEPARTMENT OF HEALTH AND HUMAN SERVICES			
INDIAN HEALTH SERVICE			
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING			
ALBUQUERQUE AREA OFFICE			
4101 Indian School Road NE Albuquerque, New Mexico 87110			
Mescalero Service Unit			
318 Abalone Loop Mescalero, NM 88603 Otero County			
RENOVATION & ADDITION			
PARTIAL ELECTRICAL SITE PLAN			
DRWN BY VICUNA			
CHKD BY KRAYER			
SCALE 1/8" = 1'-0"			
DATE 07/20/2018			
E-2			
PROJECT NUMBER 117043			
SHEET of			



\\ngm-fserver\users\sls\sls\Documents\20-107 IHS Mescalero\_MEP\_v20\_islaing\MLF.rvt



- # KEYED NOTES
- 1 CHROMALOX WTPM CONTROL PANEL. PAINT TO MATCH WALL SURFACE COLOR
  - 2 INSTALL SIX (6) RUNS OF 290 FT OF CHROMALOX CMI CABLE IN THE AREA AS INDICATED. USE SPACER STRIPS AS REQUIRED REFER TO SCHEMATIC WIRING DIAGRAM IN SHEET E-3 FOR ROUTING INFORMATION. INSTALL AS PER MANUFACTURER'S INSTRUCTIONS.
  - 3 INSTALL (3) SURFACE-MOUNTED MARSHALLING BOXES AND CONNECT AS PER WIRING DIAGRAM IN SHEET E-3. RUN CIRCUITS TO WTPM PANEL AS INDICATED. CONDUCTOR SIZE: #10 AWG. CONTRACTOR TO ADD J-BOXES, ELBOWS AND CONDUIT BODIES AS REQUIRED AND IN COMPLIANCE WITH NEC. PAINT TO MATCH SURFACE.
  - 4 RUN COLD SECTION TO MARSHALLING PANELS AS PER WIRING DIAGRAM ON SHEET E-3. CONTRACTOR TO ADD J-BOXES, ELBOWS AND CONDUIT BODIES AS REQUIRED AND IN COMPLIANCE WITH NEC. PAINT TO MATCH SURFACE. LOCATION SHOWN ON DRAWING IS SCHEMATIC AND SHALL BE ADJUSTED BASED UPON ACTUAL FIELD CONDITIONS, AND CONSTRUCTABILITY. INSTALL AS PER HEAT TRACE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 5 CHROMALOX CIT-1 SNOW SENSOR ON THE ROOF. INSTALL AND CONNECT TO WTPM PANEL AS PER MANUFACTURER INSTRUCTIONS WHERE CONDUIT IS SURFACE MOUNTED PAINT TO MATCH SURFACE.
  - 6 3/4" CONDUIT WITH JACKETED SHIELDED TWISTED PAIR 120 OHM, 18 AWG FROM SENSOR CS-AS TO CONTROL PANEL.
  - 7 REFER TO SHEET E-11B FOR WIRING AND CONDUIT SIZES.
  - 8 CHROMALOX PAVEMENT SENSOR CS-PS.
  - 9 3/4" PVC WITH JACKETED SHIELDED TWISTED PAIR 120 OHM, 18 AWG FROM PAVEMENT SENSOR TO CONTROL PANEL. BURY 24" DEEP.
  - 10 HEAT TRACE LAYOUT SHOWN ON DRAWING IS SCHEMATIC. ROUTE ADJUSTED BASED UPON ACTUAL FIELD CONDITIONS AND CONSTRUCTABILITY. INSTALL AS PER HEAT TRACE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
  - 11 HOT-COLD JOINT. LOCATION SHOWN ON DRAWING IS SCHEMATIC AND SHALL BE ADJUSTED BASED UPON ACTUAL FIELD CONDITIONS AND CONSTRUCTABILITY. INSTALL AS PER HEAT TRACE MANUFACTURER'S INSTALLATION INSTRUCTIONS. REFER TO WIRING DIAGRAM ON SHEET E-3 FOR CONNECTIONS.

MARK	DESCRIPTION	DATE	APPROVED	STAMP
02	AMENDMENT 002	10/02/2021		
ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING	

Consultant

**ROCK GAP**  
P E N N S Y L V A N I A

**INDIAN HEALTH SERVICE**  
S H S - 5551

**DEPARTMENT OF HEALTH AND HUMAN SERVICES**  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY  
**RENOVATION & ADDITION**  
**HEAT TRACE PLAN**

DRWN BY IG  
CHKD BY AA  
SCALE 1/4" = 1'-0"  
DATE 07/20/2018

**E-2A**

PROJECT NUMBER 117043

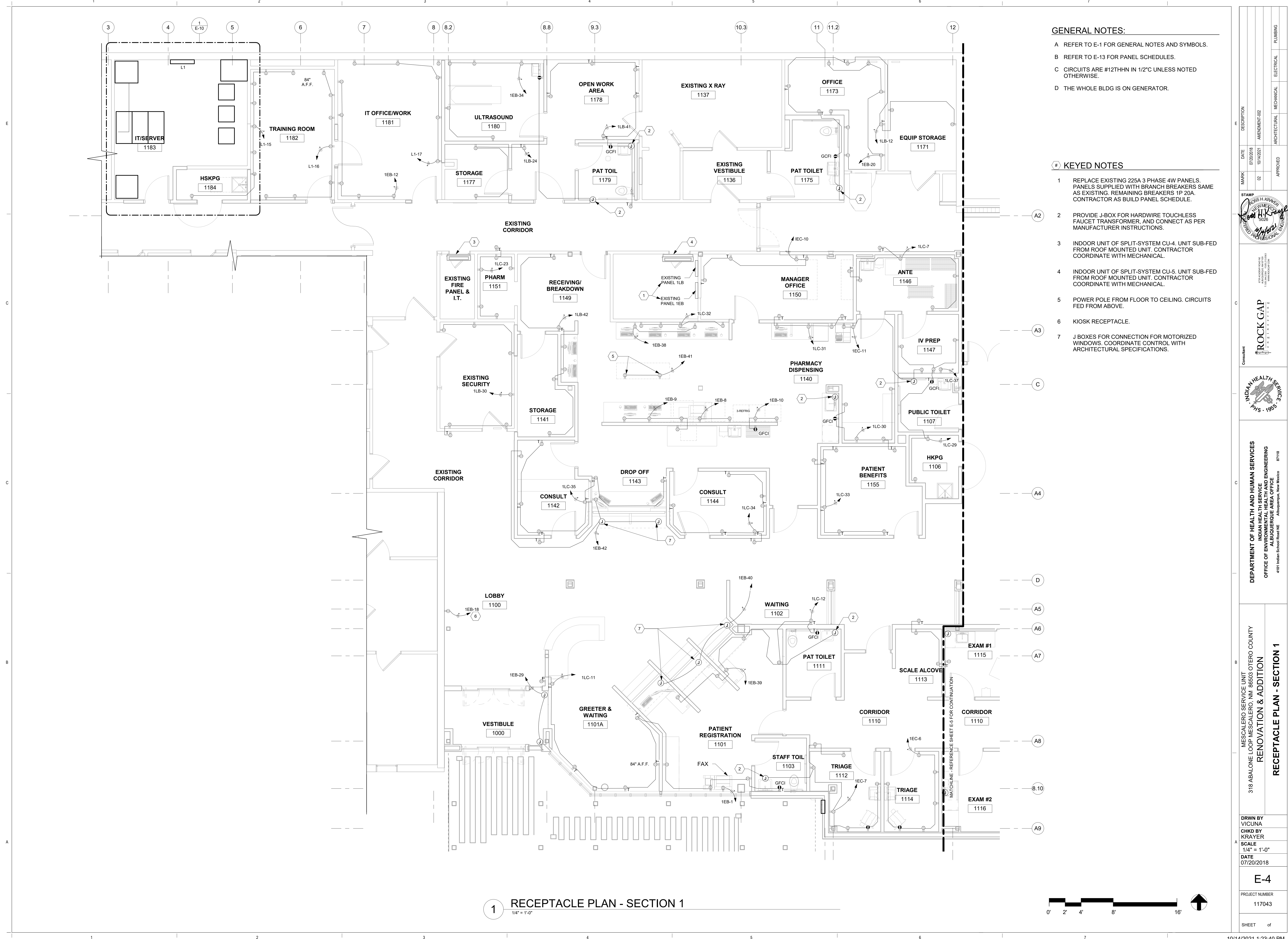
SHEET of







\\gdm-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



GENERAL NOTES:

- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.  
B REFER TO E-13 FOR PANEL SCHEDULES.  
C CIRCUITS ARE #12THHN IN 1/2" C UNLESS NOTED OTHERWISE.  
D THE WHOLE BLDG IS ON GENERATOR.

# KEYED NOTES

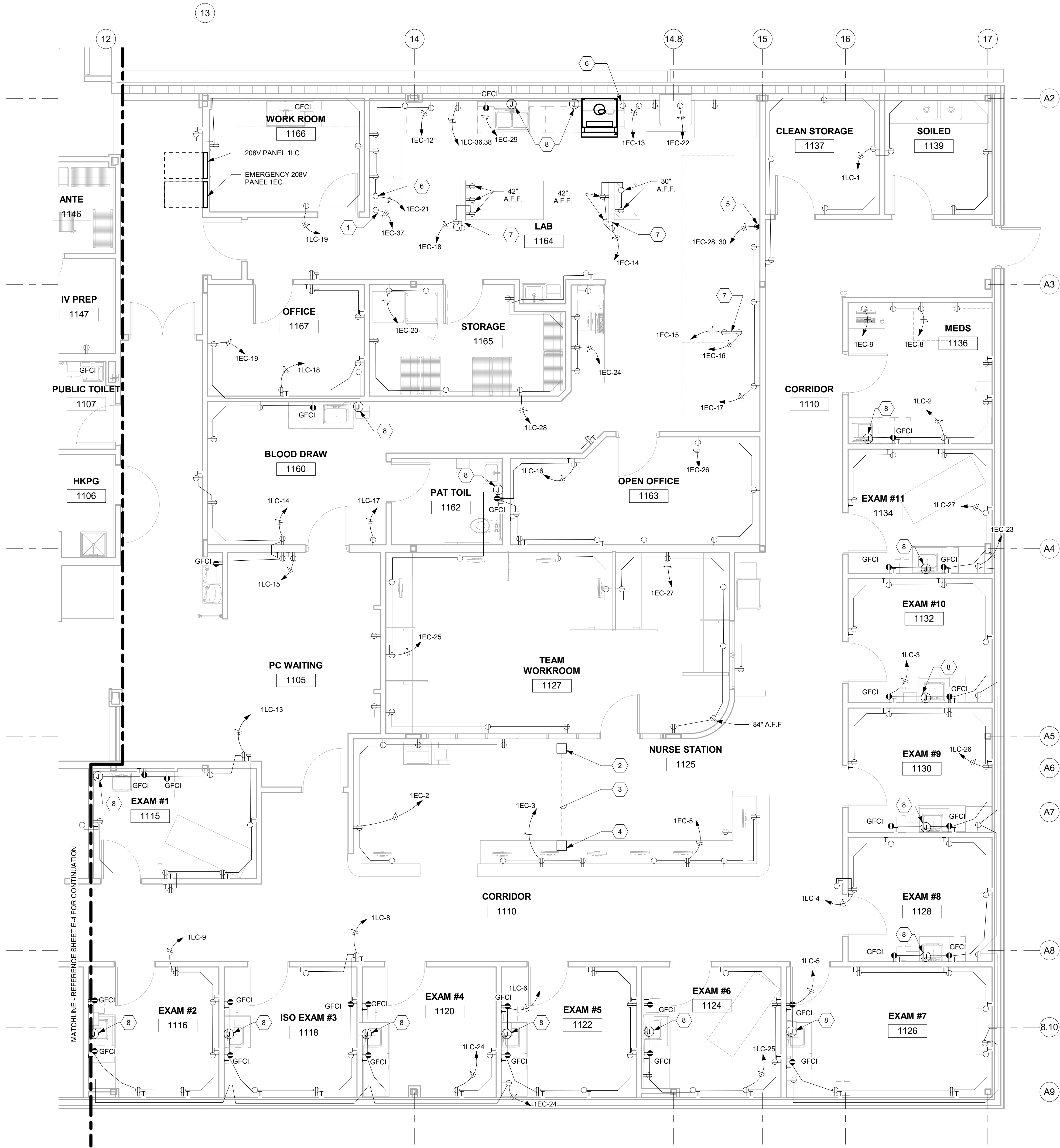
- 1 REPLACE EXISTING 225A 3 PHASE 4W PANELS. PANELS SUPPLIED WITH BRANCH BREAKERS SAME AS EXISTING. REMAINING BREAKERS 1P 20A. CONTRACTOR AS BUILD PANEL SCHEDULE.  
2 PROVIDE J-BOX FOR HARDWIRE TOUCHLESS FAUCET TRANSFORMER, AND CONNECT AS PER MANUFACTURER INSTRUCTIONS.  
3 INDOOR UNIT OF SPLIT-SYSTEM CU-4. UNIT SUB-FED FROM ROOF MOUNTED UNIT. CONTRACTOR COORDINATE WITH MECHANICAL.  
4 INDOOR UNIT OF SPLIT-SYSTEM CU-5. UNIT SUB-FED FROM ROOF MOUNTED UNIT. CONTRACTOR COORDINATE WITH MECHANICAL.  
5 POWER POLE FROM FLOOR TO CEILING. CIRCUITS FED FROM ABOVE.  
6 KIOSK RECEPTACLE.  
7 J BOXES FOR CONNECTION FOR MOTORIZED WINDOWS. COORDINATE CONTROL WITH ARCHITECTURAL SPECIFICATIONS.



PROJECT NUMBER	117043
SHEET	of
DATE	07/20/2018
SCALE	1/4" = 1'-0"
CHKD BY	KRAYER
DRWN BY	VICUNA
RECEPTACLE PLAN - SECTION 1	
318 ABALONE LOOP MESCALERO, NM 88503 OTERO COUNTY	
Mescalero Service Unit	
INDIAN HEALTH SERVICE	
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING	
ALBUQUERQUE AREA OFFICE	
4101 Indian School Road NE Albuquerque, New Mexico 87110	
INDIAN HEALTH SERVICE	
CONSULTANT	
ROCK GAP	
ARCHITECTURAL MECHANICAL ELECTRICAL PLUMBING	
APPROVED	
AMENDMENT 002	
DATE	07/20/2018
DESCRIPTION	



\\ngm-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



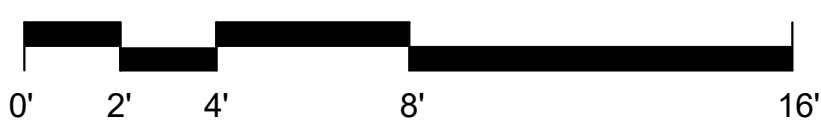
1 RECEPTACLE PLAN - SECTION 2  
1/4" = 1'-0"

#### GENERAL NOTES:

- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
- B REFER TO E-13 FOR PANEL SCHEDULES.
- C CIRCUITS ARE #12THHN IN 1/2" C UNLESS NOTED OTHERWISE.
- D WHOLE BUILDING ON GENERATOR.

#### # KEYED NOTES

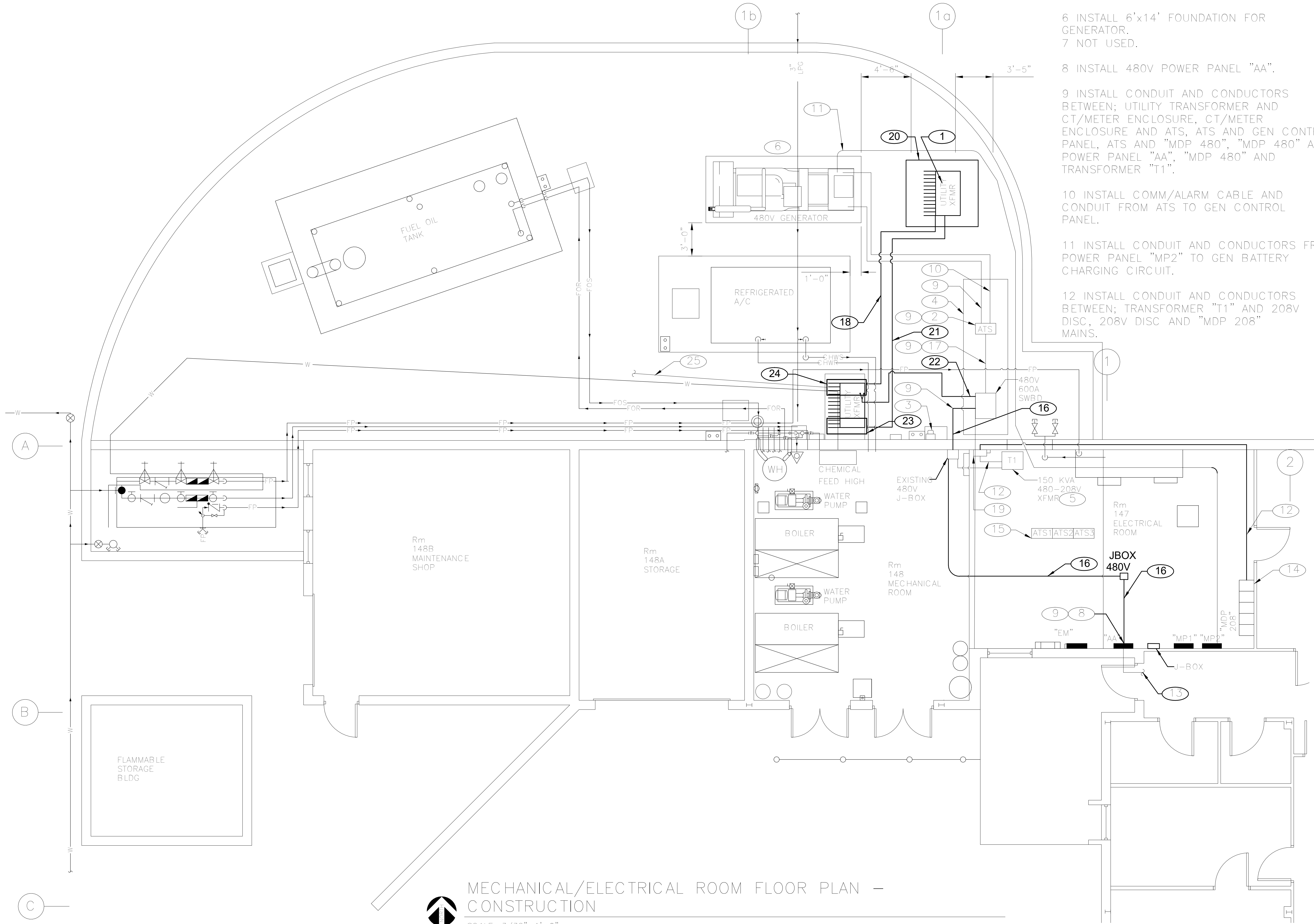
- 1 PROVIDE HOSPITAL GRADE RECEPTACLE FOR MICROSCOPE MODULE UPS.
- 2 4" SQ. BOX 6" A.F.F.
- 3 2- 3/4" CONDUIT UNDER SLAB.
- 4 4" SQ. FLOOR BOX.
- 5 NEMA L6-30R; CONTRACTOR TO VERIFY THE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN. 2" - #10 AWG (G) IN 0.75" C.
- 6 RECEPTACLE MOUNTED 48" A.F.F. ADJACENT TO HUMIDIFIER CONTROL PANEL.
- 7 POWER POLE FROM FLOOR TO CEILING. CIRCUITS FED FROM ABOVE.
- 8 PROVIDE J-BOX FOR HARDWIRE TOUCHLESS FAUCET TRANSFORMER, AND CONNECT AS PER MANUFACTURER INSTRUCTIONS.



MARK	DESCRIPTION	DATE	AMENDMENT	APPROVED	PLUMBING
		07/20/2018	02		
		10/14/2021			
STAMP					
ROCK GAP					
INDIAN HEALTH SERVICE					
DEPARTMENT OF HEALTH AND HUMAN SERVICES					
INDIAN HEALTH SERVICE					
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING					
ALBUQUERQUE AREA OFFICE					
4101 Indian School Road NE Albuquerque, New Mexico 87110					
Mescalero Service Unit					
318 Abalone Loop Mescalero, NM 88603 Otero County					
RENOVATION & ADDITION					
RECEPTACLE PLAN - SECTION 2					
DRWN BY VICUNA					
CHKD BY KRAYER					
SCALE 1/4" = 1'-0"					
DATE 07/20/2018					
E-5					
PROJECT NUMBER 117043					
SHEET of					



\\gpm-fserver\users\lisaahG\Documents\20-107 IHS Mescalero\_MEP\_v20\_isaiahG\MLF.rvt



MECHANICAL/ELECTRICAL ROOM FLOOR PLAN -  
CONSTRUCTION  
SCALE: 3/32"=1'-0"

## GENERAL NOTES

A. HEAVY WEIGHT LINES NEW WORK.

## KEYED NOTES

1 UTILITY INSTALL 300KVA XFMR ON NEW CONCRETE PAD PER OTERO ELECTRIC STANDARDS. REFER TO E-12 DETAIL ONE.

2 INSTALL UNISTRUT UTILITY RACK ON EQUIPMENT PAD W/ 480V ATS AND 480V MAIN DISTRIBUTION PANEL "MDP 480".

3 INSTALL OTERO ELECTRIC APPROVED UTILITY METER IN CT ENCLOSURE ON EXISTING UTILITY RACK.

4 INSTALL 4'x14' CONCRETE PAD FOR OUTDOOR EQUIPMENT.

5 INSTALL 480V-208V STEPDOWN TRANSFORMER "T1" IN RM 147.

6 INSTALL 6'x14' FOUNDATION FOR GENERATOR.  
7 NOT USED.

8 INSTALL 480V POWER PANEL "AA".

9 INSTALL CONDUIT AND CONDUCTORS BETWEEN; UTILITY TRANSFORMER AND CT/METER ENCLOSURE, CT/METER ENCLOSURE AND ATS, ATS AND GEN CONTROL PANEL, ATS AND "MDP 480", "MDP 480" AND POWER PANEL "AA", "MDP 480" AND TRANSFORMER "T1".

10 INSTALL COMM/ALARM CABLE AND CONDUIT FROM ATS TO GEN CONTROL PANEL.

11 INSTALL CONDUIT AND CONDUCTORS FROM POWER PANEL "MP2" TO GEN BATTERY CHARGING CIRCUIT.

12 INSTALL CONDUIT AND CONDUCTORS BETWEEN; TRANSFORMER "T1" AND 208V DISC, 208V DISC AND "MDP 208" MAINS.

13 INSTALL CONDUIT AND CONDUCTORS FROM POWER PANEL "AA" IN MECHANICAL ROOM AND POWER PANEL "AB" IN THE PENTHOUSE.

14 INSTALL MAIN LUGS ONLY KIT IN PLACE OF MAIN BREAKER IN EXISTING "MDP 208".  
15 INSTALL INSULATED BUSS IN ATS1, ATS2 & ATS3 TO CONNECT LINE AND LOAD CONDUCTORS. REMOVE ENCLOSURE LABELS.

16 INSTALL 2 - 2 1/2" C. EACH WITH 4 250 KCMIL AND 1 #3 GD FROM LOAD SIDE OF 400A BREAKER TO PULL BOX IN CEILING OF RM 147 AND THEN TO PANEL 'AA'

17 2 - 2 1/2" C. EACH WITH 4 - 350 KCMIL.

18 2 3" EACH WITH 4 350 KCMIL.

19 INSTALL 400A 240V FUSED DISCONNECT IN RM 147.

20 CONTRACTOR POUR NEW CONCRETE PAD FOR NEW 300KVA TRANSFORMER. REFER TO DETAIL ONE SHEET E-12. CONTRACTOR COORDINATE LOCATION OF PAD WITH LANCE WRIGHT OTERO COOP ENGINEER PRIOR TO ROUGH IN. FRONT OF TRANSFORMER FACES EAST. PAD POURED AT LEAST 7 DAYS PRIOR TO SCHEDULE OUTAGE TO SET NEW TRANSFORMER. CONTRACTOR TO COORDINATE WITH OTERO ENGINEERING LANCE WRIGHT.

21 INSTALL 1 - 4" C FOR 3 - 15KV CABLES. CABLES INSTALLED BY OTERO COOP.

22 480V CKT FROM 100A 3P BREAKER IN 480 SWBD AND 208V SINGLE PHASE FROM PANEL EM CKT 34,36

23 METAL ENCLOSURE BY OTERO TO SPLICE PRIMARY CABLES TO NEW TRANSFORMER.

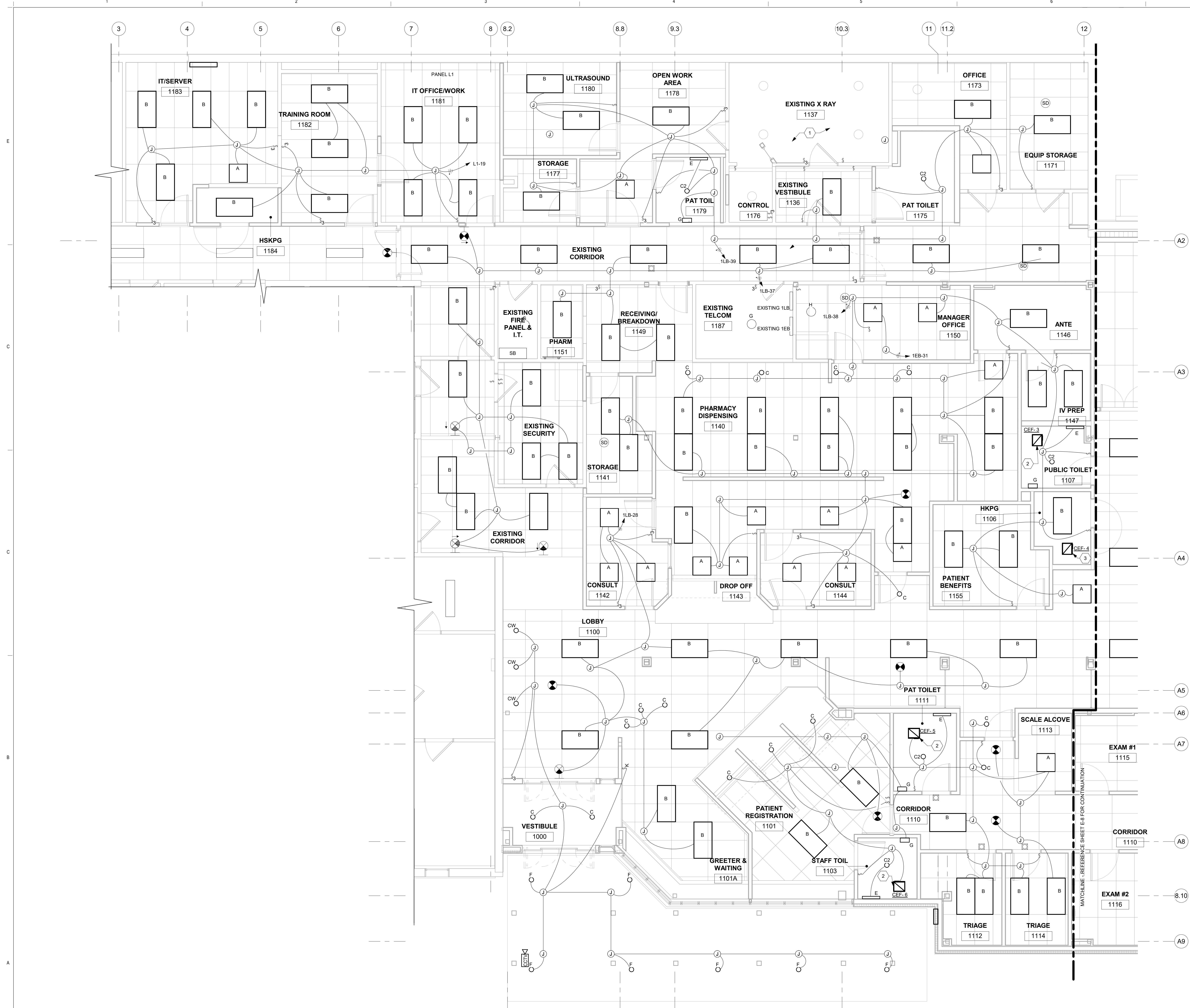
24 INSTALL METAL ENCLOSURE 24" X 36" X 36"H TO COVER SECONDARY CABLES IN SECONDARY COMPARTMENT. ANCHOR IN 4 PLACES.

25 EXISTING 208V FEEDER TO MAINTENANCE BLDG AND EXISTING 480V FEEDER TO BLUE ADMIN BLDG.

MARK	DATE	DESCRIPTION	APPROVED	ARCHITECTURAL	MECHANICAL	ELECTRICAL	PLUMBING
02	07/20/2018 10/14/2021	AMENDMENT 002					
STAMP							
ROCK GAP							
INDIAN HEALTH SERVICE							
DEPARTMENT OF HEALTH AND HUMAN SERVICES							
INDIAN HEALTH SERVICE							
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING							
ALBUQUERQUE AREA OFFICE							
4101 Indian School Road NE Albuquerque, New Mexico 87110							
Mescalero Service Unit							
318 Abalone Loop Mescalero, NM 88603 Otero County							
RENOVATION & ADDITION							
MECHANICAL/ELECTRICAL FLOOR PLAN							
DRWN BY Author							
CHKD BY Checker							
SCALE 1/4" = 1'-0"							
DATE 07/20/2018							
E-6							
PROJECT NUMBER 117043							
SHEET of							



\\ngm-fserver\users\sls\sls\Documents\20-107 IHS Mesalero MEP\_v20\_islaing\MLF.rvt



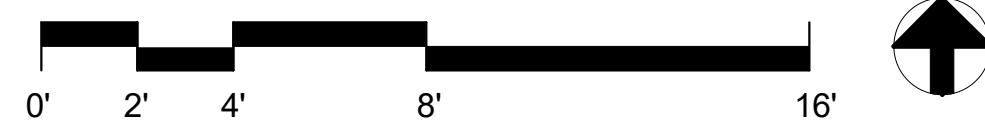


\\vgm-fserver\users\lisaiah\Documents\20-107 IHS Mescalero\_MEP\_v20\_lisaiah\MLF.rvt



1 LIGHTING FLOOR PLAN - SECTION 2  
1/4" = 1'-0"

- GENERAL NOTES:**
- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
  - B REFER TO E-13 FOR PANEL AND LIGHT FIXTURE SCHEDULES.
  - C WHOLE BUILDING ON GENERATOR.
- # KEYED NOTES**
- 1 CONTROLLED BY MOTION SENSOR ON FAN.
  - 2 CEF-1 TO RUN CONTINUOUS.




MARK	DATE	DESCRIPTION	PLUMBING
02	07/20/2018	AMENDMENT 002	
APPROVED			
STAMP			
CONSULTANT INDIAN HEALTH SERVICE INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110			
DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110			
Mescalero Service Unit 318 Abalone Loop Mescalero, NM 88603 Otero County RENOVATION & ADDITION LIGHTING PLAN - SECTION 2			
DRWN BY VICUNA CHKD BY KRAYER SCALE 1/4" = 1'-0" DATE 07/20/2018			
E-8			
PROJECT NUMBER 117043			
SHEET of			





## KEYED NOTES

- |   |  |               |  |               |  |
|---|--|---------------|--|---------------|--|
| STAMP   |  | DATE          |  | DESCRIPTION   |  |
|  |  | 07/20/2018    |  |               |  |
|   |  | 02            |  | AMENDMENT-002 |  |
|   |  | 10/14/2021    |  |               |  |
| APPROVED  |  | MECHANICAL    |  | ELECTRICAL    |  |
|   |  | ARCHITECTURAL |  | PLUMBING      |  |

**ROCK GAP**  
c o n c e r t i n g

0709-242-0046 (FOLIO)  
443-530-0726 (NIGHT)  
T: 505.344.2466 F: 505.231.0563  
WWW.ROCKGAP.COM



**DEPARTMENT OF HEALTH AND HUMAN SERVICES**  
**INDIAN HEALTH SERVICE**  
**OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING**  
**ALBUQUERQUE AREA OFFICE**  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
LINE LOOP MESCALERO, NM 86503 OTERO COUNTY  
RENOVATION & ADDITION  
HVAC ROOF POWER PLAN

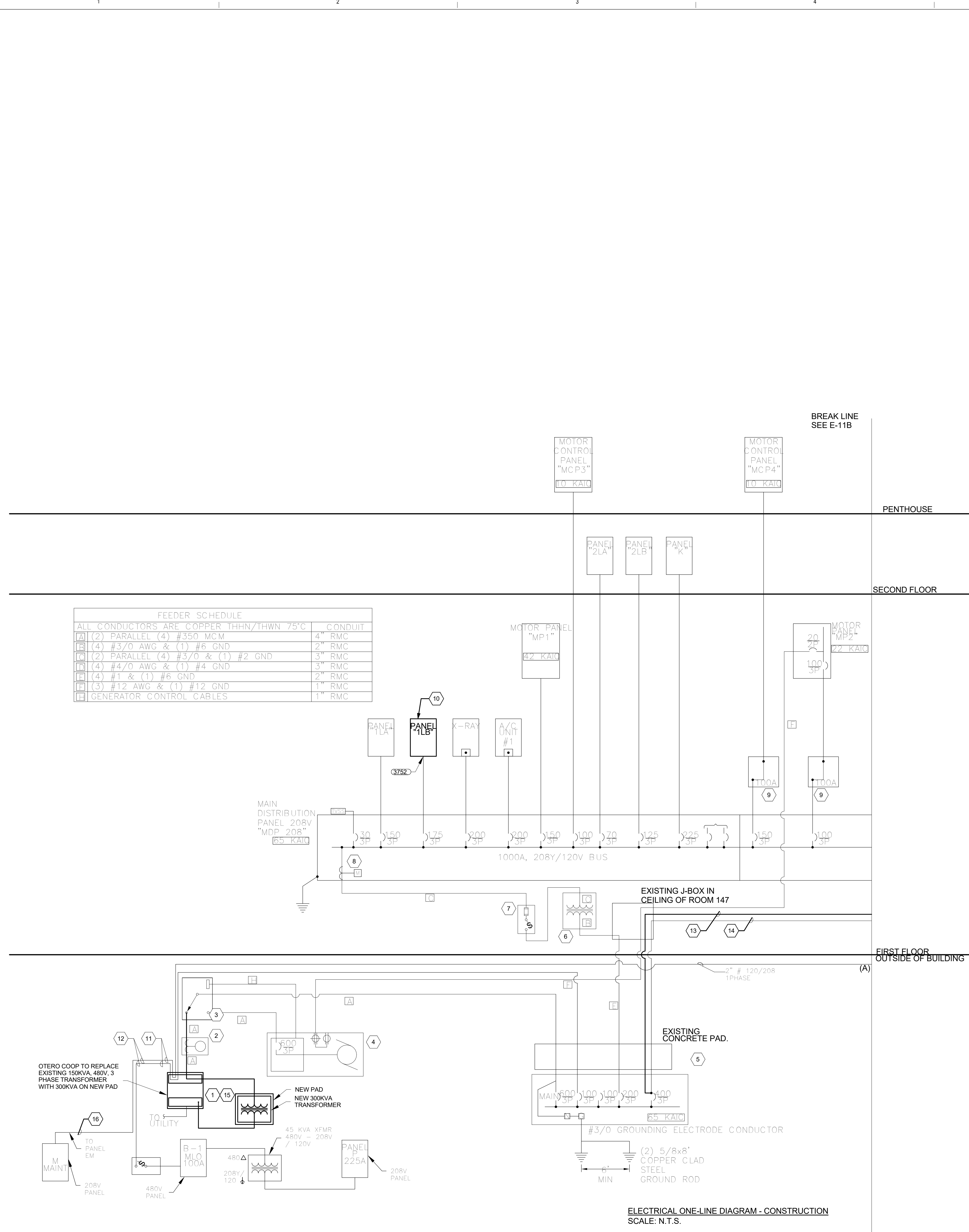
A	DRWN BY VICUNA
	CHKD BY KRAYER
	SCALE 1/8" = 1'-0"
	DATE 07/20/2018
	E-9
	PROJECT NUMBER 117043
	SHEET      of





A	SCALE As indicated	DATE 07/20/2018	DRAWN BY VICUNA	CHKD BY KRAYER	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503	OTERO COUNTY	B	ENLARGED ELECTRICAL PLANS	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	C	INDIAN HEALTH SERVICE PHS • 1955	CONSULTANT ROCK GAP ENGINEERS	C	CONSULTANT ROCK GAP ENGINEERS 4700 KADAWA ROAD NE SUITE 100 ALBUQUERQUE, NEW MEXICO 87113 PHONE (505) 261-7000 WWW.ROCKGAP.COM	STAMP ROSS H. KRAYER NEW MEXICO 0026 Professional Engineer 07/20/2018	MARK	DATE 07/20/2018	DESCRIPTION AMENDMENT 002	m	SHEET	of	PROJECT NUMBER 117043	E-10	DATE 07/20/2018	SCALE As indicated	CHKD BY KRAYER	DRAWN BY VICUNA	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503	OTERO COUNTY	B	ENLARGED ELECTRICAL PLANS	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	C	INDIAN HEALTH SERVICE PHS • 1955	CONSULTANT ROCK GAP ENGINEERS	C	CONSULTANT ROCK GAP ENGINEERS 4700 KADAWA ROAD NE SUITE 100 ALBUQUERQUE, NEW MEXICO 87113 PHONE (505) 261-7000 WWW.ROCKGAP.COM	STAMP ROSS H. KRAYER NEW MEXICO 0026 Professional Engineer 07/20/2018	MARK	DATE 07/20/2018	DESCRIPTION AMENDMENT 002	m	SHEET	of	PROJECT NUMBER 117043	E-10	DATE 07/20/2018	SCALE As indicated	CHKD BY KRAYER	DRAWN BY VICUNA	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503	OTERO COUNTY	B	ENLARGED ELECTRICAL PLANS	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	C	INDIAN HEALTH SERVICE PHS • 1955	CONSULTANT ROCK GAP ENGINEERS	C	CONSULTANT ROCK GAP ENGINEERS 4700 KADAWA ROAD NE SUITE 100 ALBUQUERQUE, NEW MEXICO 87113 PHONE (505) 261-7000 WWW.ROCKGAP.COM	STAMP ROSS H. KRAYER NEW MEXICO 0026 Professional Engineer 07/20/2018	MARK	DATE 07/20/2018	DESCRIPTION AMENDMENT 002	m	SHEET	of	PROJECT NUMBER 117043	E-10	DATE 07/20/2018	SCALE As indicated	CHKD BY KRAYER	DRAWN BY VICUNA	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503	OTERO COUNTY	B	ENLARGED ELECTRICAL PLANS	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	C	INDIAN HEALTH SERVICE PHS • 1955	CONSULTANT ROCK GAP ENGINEERS	C	CONSULTANT ROCK GAP ENGINEERS 4700 KADAWA ROAD NE SUITE 100 ALBUQUERQUE, NEW MEXICO 87113 PHONE (505) 261-7000 WWW.ROCKGAP.COM	STAMP ROSS H. KRAYER NEW MEXICO 0026 Professional Engineer 07/20/2018	MARK	DATE 07/20/2018	DESCRIPTION AMENDMENT 002	m	SHEET	of	PROJECT NUMBER 117043	E-10	DATE 07/20/2018	SCALE As indicated	CHKD BY KRAYER	DRAWN BY VICUNA	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86503	OTERO COUNTY	B	ENLARGED ELECTRICAL PLANS	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	C	INDIAN HEALTH SERVICE PHS • 1955	CONSULTANT 
---	-----------------------	--------------------	--------------------	-------------------	--	--------------	---	---------------------------	---	---	-------------------------------------	-------------------------------------	---	--	--	------	--------------------	------------------------------	---	-------	----	--------------------------	------	--------------------	-----------------------	-------------------	--------------------	--	--------------	---	---------------------------	---	---	-------------------------------------	-------------------------------------	---	--	--	------	--------------------	------------------------------	---	-------	----	--------------------------	------	--------------------	-----------------------	-------------------	--------------------	--	--------------	---	---------------------------	---	---	-------------------------------------	-------------------------------------	---	--	--	------	--------------------	------------------------------	---	-------	----	--------------------------	------	--------------------	-----------------------	-------------------	--------------------	--	--------------	---	---------------------------	---	---	-------------------------------------	-------------------------------------	---	--	--	------	--------------------	------------------------------	---	-------	----	--------------------------	------	--------------------	-----------------------	-------------------	--------------------	--	--------------	---	---------------------------	---	---	-------------------------------------	----------------



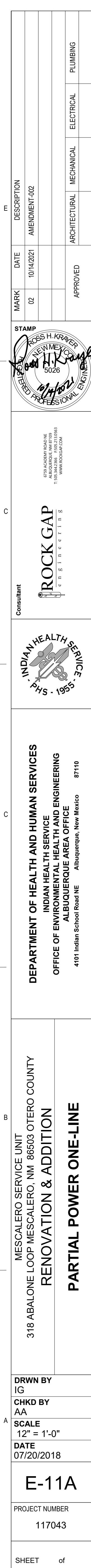


ELECTRICAL LOAD SUMMARY					
	VA			VA	TOTALS
<u>LIGHTING</u>					
LTG (VA X 1.25)	12,502.1	X	1.25	15,628	15,628
<u>RECEPTACLES</u>					
1ST 10 KVA @ 100%	10,000.0	X	1	10,000	
> 10 KVA @ 50%	51,020.0	X	0.5	25,510	
TOTAL RECEPTACLE (VA)				35,510	35,510
<u>I.T. ROOM</u>					
UPS 45 KVA	45,000.0	X	1	45,000	
CRAC UNITS (2 X 18.78 KVA EACH)	37,560.0	X	1	37,560	
CRAC CONDENSERS (2)(1.4AX480VX1.73)	2,327.8	X	1	2,328	
TOTAL I.T. (VA)				84,888	84,888
<u>HVAC</u>					
RTU-1; 16A	13,286.4	X	1.25	16,608	
RTU-2; 12A	9,964.8	X	1	9,965	
CU-1, 4, 5	12,470.0	X	1	12,470	
CU-2, 3	1,993.0	X	1	1,993	
EUH	3,000.0	X	1	3,000	
RTU-3; 12A	9,964.8	X	1	9,965	
RTU-4; 12A	9,964.8	X	1	9,965	
RTU-5; 12A	9,964.8	X	1	9,965	
TOTAL HVAC (VA)				73,930	73,930
<u>MEDICAL EQUIPMENT (VA)</u>	10,000.0	X	1	10,000	10,000
<u>HEAT TRACE</u>					
# HEAT TRACE CABLES (EA)	6.0				
WATT /CABLE	6,610.0				
TOTAL HEAT TRACE WATTS	39,660.0	X	1.25	49,575	49,575
SUB-TOTAL (VA)					269,531
FUTURE 20% (VA)					53,906
TOTAL (KVA)					323
ESTIMATED DEMAND (KVA)					
NEW (323 KVA X 0.7)					226
OLD (107 KVA X 0.9)					96
TOTAL DEMAND (KVA)					323

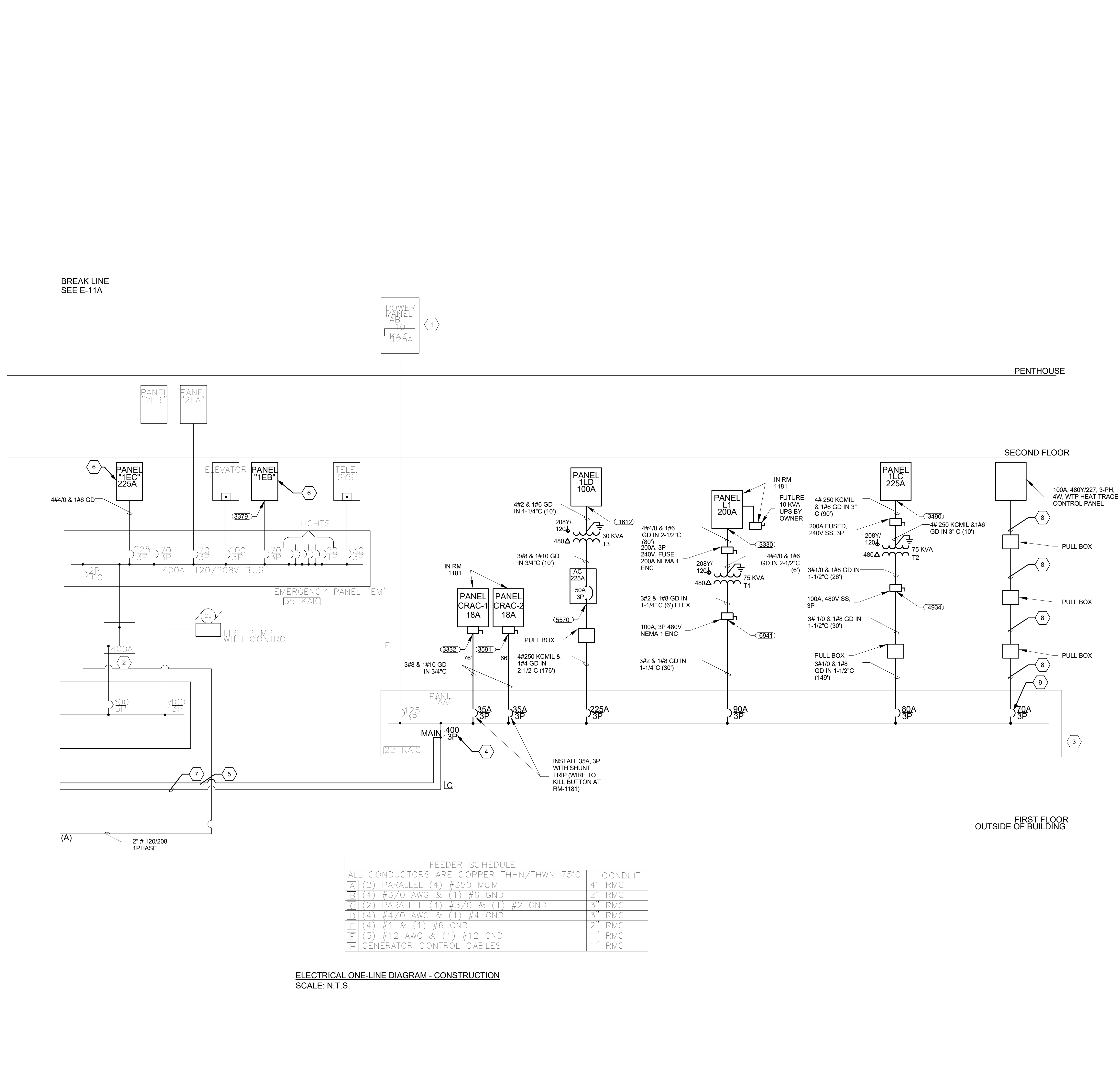
A THE GENERATOR SERVES THE TOTAL LOAD OF THE FACILITY.

B NEW WORK THIS PROJECT IS HEAVY WEIGHT.

1. OTERO ELECTRIC SHALL REPLACE THE EXISTING UTILITY TRANSFORMER WITH A 7200/12470-277/480Y, 3 PH, 300VA. TRANSFORMER.
2. INSTALL OTERO ELECTRIC APPROVED UTILITY METER, 277/480V.
3. INSTALL AUTOMATIC TRANSFER SWITCH (ATS), 600A, 480V, 3 PH.
4. INSTALL GENERATOR IN MARINE ENCLOSURE, 500KVA, 8PF, 480V, 3 PH, STAND-BY, DIESEL FUELED.
5. INSTALL MAIN DISTRIBUTION PANEL "MDP 480", 600A, 480V, 3 PH, 4 CKT MINIMUM, 600A MAIN W/ (1) 200A BREAKER AND (1) 400A BREAKER AND 2-100A BREAKERS.
6. INSTALL TRANSFORMER "T1", 150KVA, 480Y-120/208Y, 3 PH.
7. INSTALL FUSED DISCONNECT SWITCH, 400A, 208V, 3PH, SOLID NEUTRAL W/400A FUSES.
8. INSTALL EQUIPMENT FOR MAIN LUGS ONLY.
9. INSTALL INSULATED BUSS IN ATS1,ATS2 & ATS3 TO CONNECT LINE AND LOAD CONDUCTORS. REMOVE ENCLOSURE LABELS.
10. REPLACE EXISTIN PANEL 1LB WITH 225A PANEL.
  1. 2 - 2" EACH WITH 3 - AND 1# GND.
12. TO BLUE ADMIN AND MAIN.
13. INSTALL 2 - 2 1/2" C. EACH WITH 4 - 250 KCMIL CONDUCTORS AND 1 #3 GROUND FROM 400A BREAKER IN 480V SWBD TO PANEL "AA".
14. ABANDON EXISTING 4 - 3/0 AND 1 #3 GND IN 2" C.
15. CONTRACTOR REFER TO SPECIFICATION 26-0001. FOR XFMR CHANGE.
16. CONTRACTOR TO ADD SIGN ON FEEDER CONDUIT ON BLUE ADMIN BUILDING NEXT TO DISCONNECT TO BLUE ADMIN SERVICE THAT READS TO DISCONNECT FEED TO PANEL "M" OPEN ZP BREAKER EM 34, 36 IN ROOM 147." SIGN TO BE RED LETTERS ON WHITE BACKGROUND AND TEXT BLOCK LETTERS "1" HIGH.



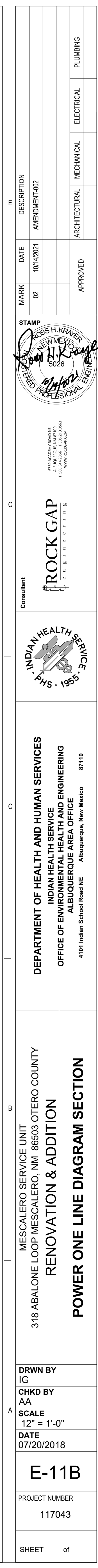


[illegible]

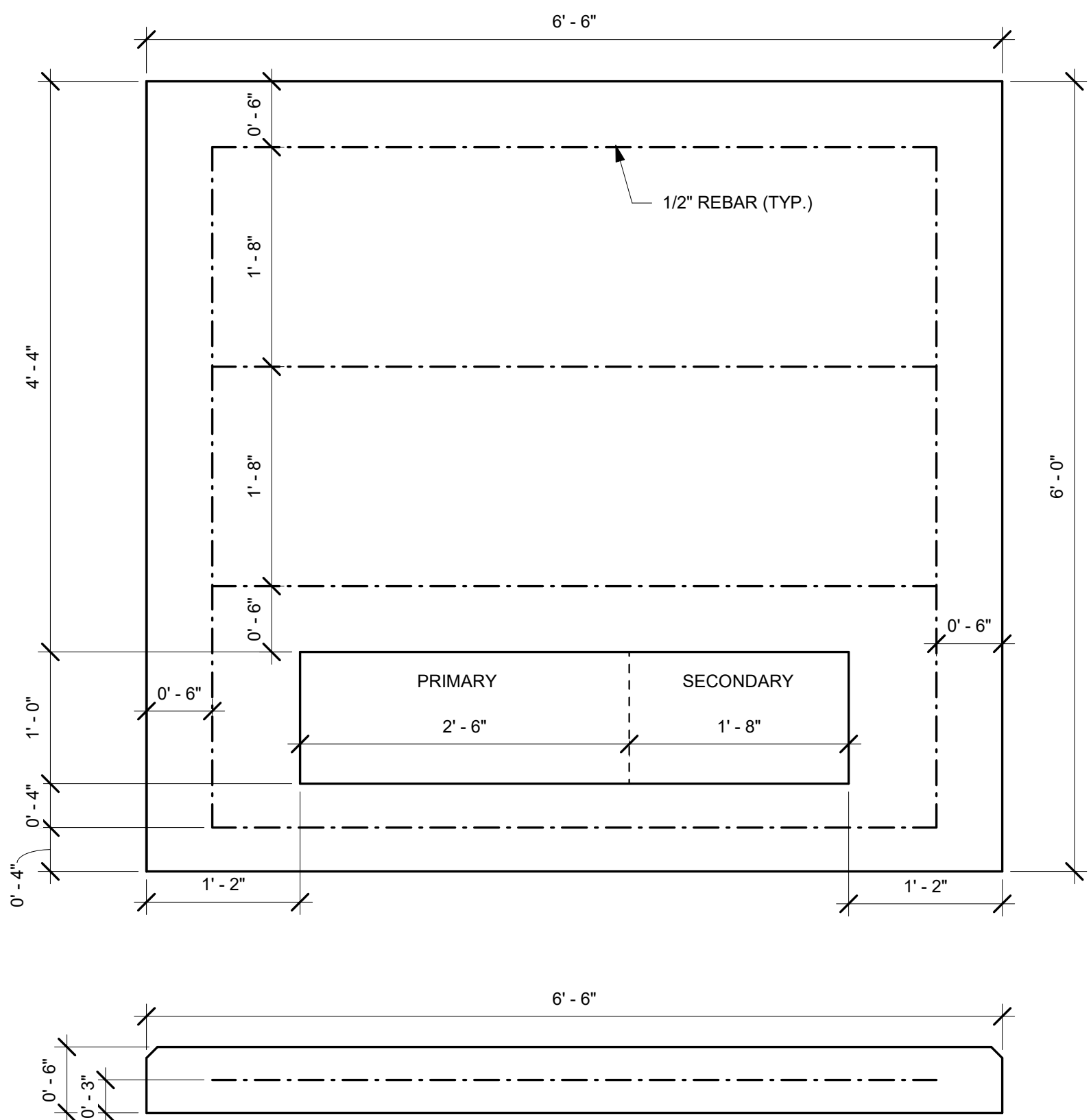
- INSTALL POWER PANEL "AB", 125A, 277/480V, 3  
H, 4W, 42CKT W/ 125A MAIN.
- INSTALL INSULATED BUSS IN ATS1.ATS2 & ATS3  
O CONNECT LINE AND LOAD CONDUCTORS.  
REMOVE ENCLOSURE LABELS.
- INSTALL POWER PANEL "AA", 400A, 277/480V, 3  
H, 4W, 42CKT W/ 200A MAIN.
- REPLACE 200A 3P MAIN BREAKER WITH 400 3P MAIN  
BREAKER
- INSTALL 2 - 2 - 1/2" C. EACH WITH 4 - 250 KCMIL  
CONDUCTORS AND 1 #3 GROUND FROM 400A BREAKER  
N 480V SWBD TO PANEL "AA".
- REPLACE EXISTING PANEL 1EC AND 1EB WITH 225A  
ANEL
- REMOVE EXISTING 3/0 AND 1# GND IN 2" C.
- #6 AWG, THHN; 1-#6 AWG (N); 1-#6 AWG (G); 1.25 C.
- INSTALL 70A, 3P, 480V, BREAKER IN PANEL "AA".

### INSTALL POWER PANEL "A"

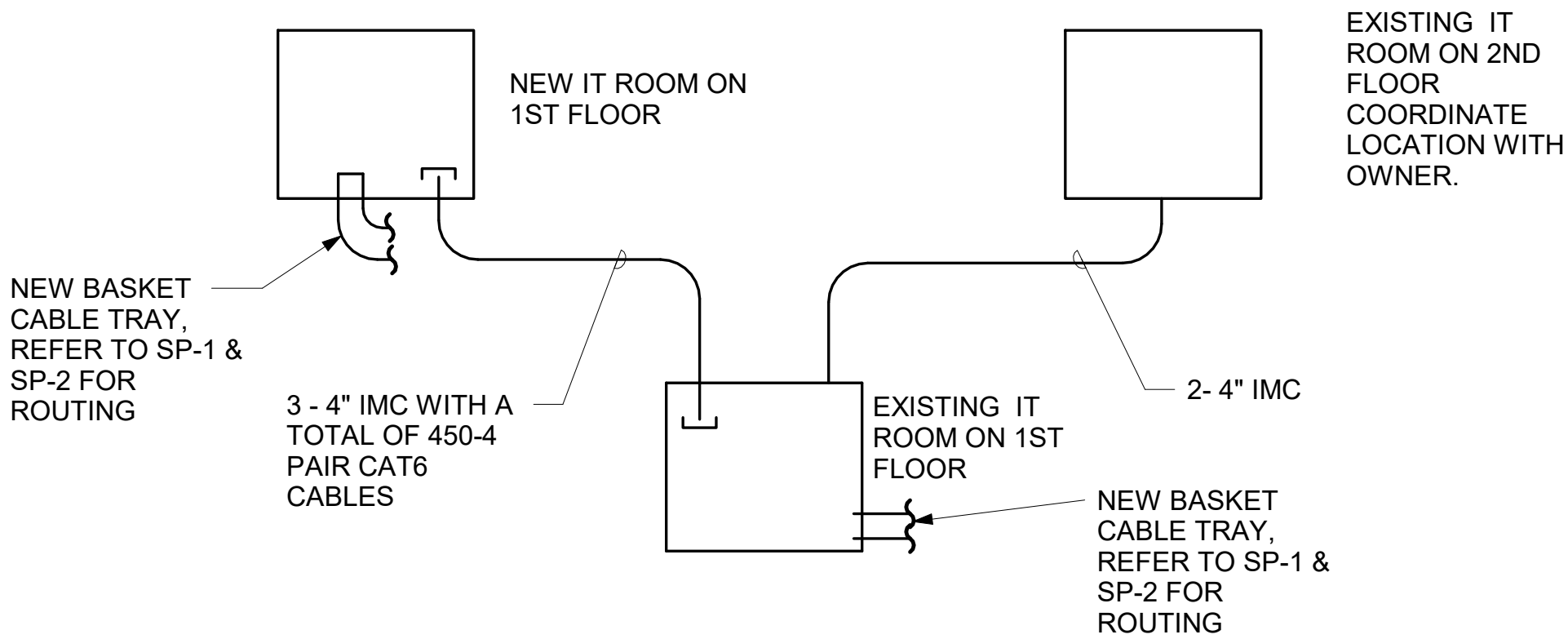
1. INSTALL POWER PANEL "AB", 125A, 277/480V, 3 PH 4W, 42CKT, W/ 125A MAIN.
2. INSTALL INSULATED BUSS IN ATS1,ATS2 & ATS3 TO CONNECT LINE AND LOAD CONDUCTORS, REMOVE ENCLOSURE LABELS.
3. INSTALL POWER PANEL "AA", 400A, 277/480V, 3 PH, 4W, 42CKT W/ 200A MAIN.
4. REPLACE 200A 3P MAIN BREAKER WITH 400 3P MAIN BREAKER
5. INSTALL 2 - 2 1/2" C. EACH WITH 4 - 250 KCMIL CONDUCTORS AND 1 #3 GROUND FROM 400A BREAKER IN 480V SWBD TO PANEL "AA".
6. REPLACE EXISTING PANEL 1EC AND 1EB WITH 225A PANEL
7. REMOVE EXISTING 3/0 AND 1# GND IN 2" C.
8. 3-#6 AWG, THHN ; 1-#6 AWG (N); 1-#6 AWG (G); 1.25 C.
9. INSTALL 70A, 3P, 480V, BREAKER IN PANEL "AA".



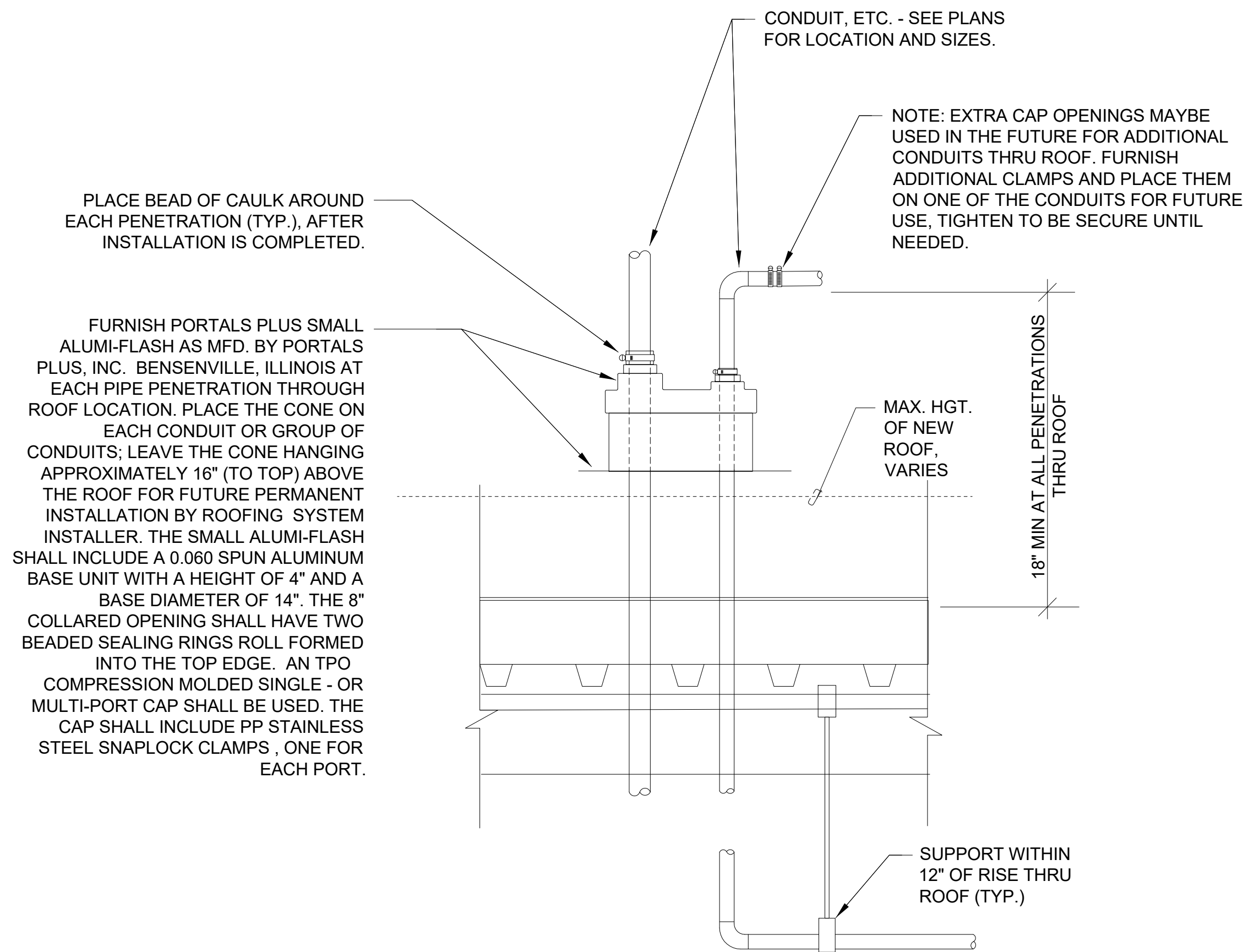




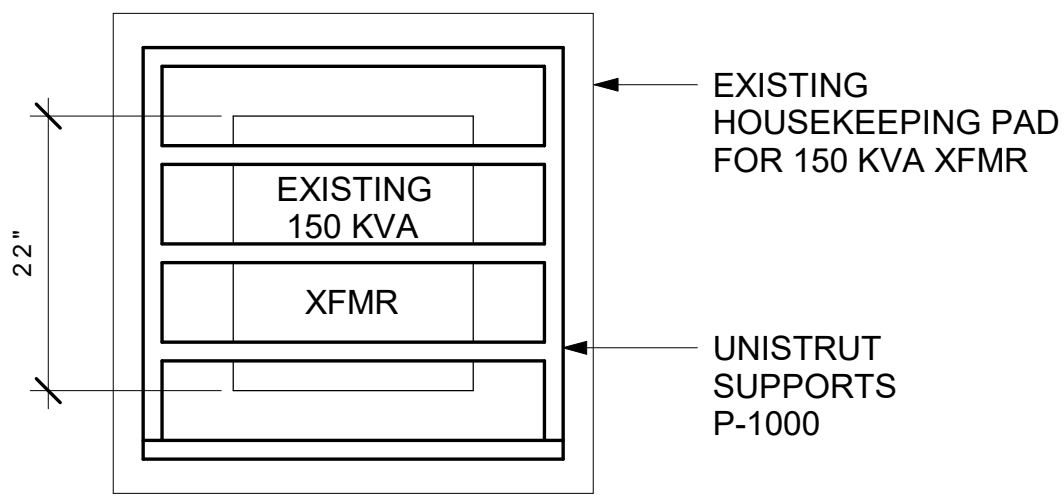
1 UTILITY PAD FOR 300KVA XFMR  
NOT TO SCALE



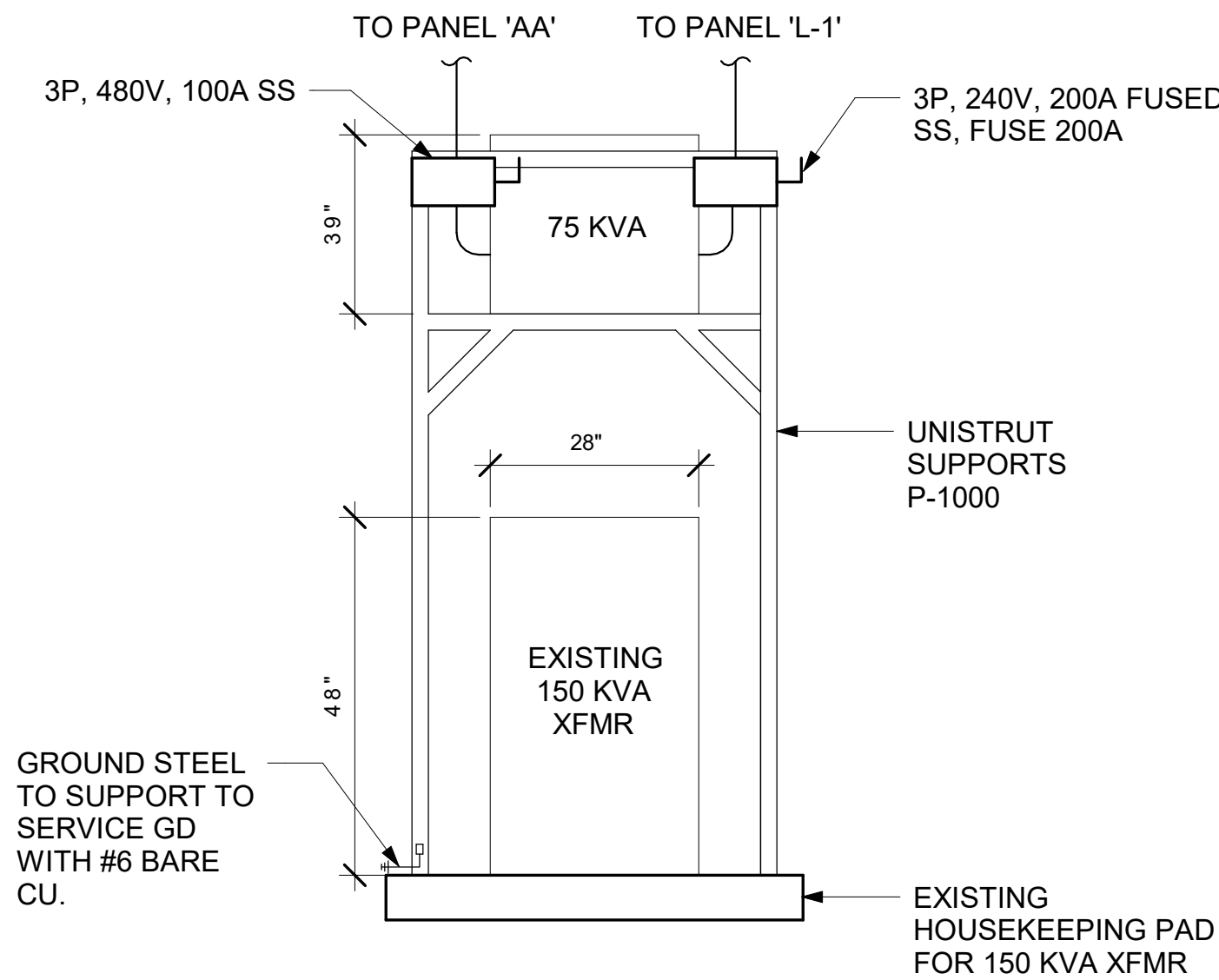
2 BLOCK DIAGRAM  
NOT TO SCALE



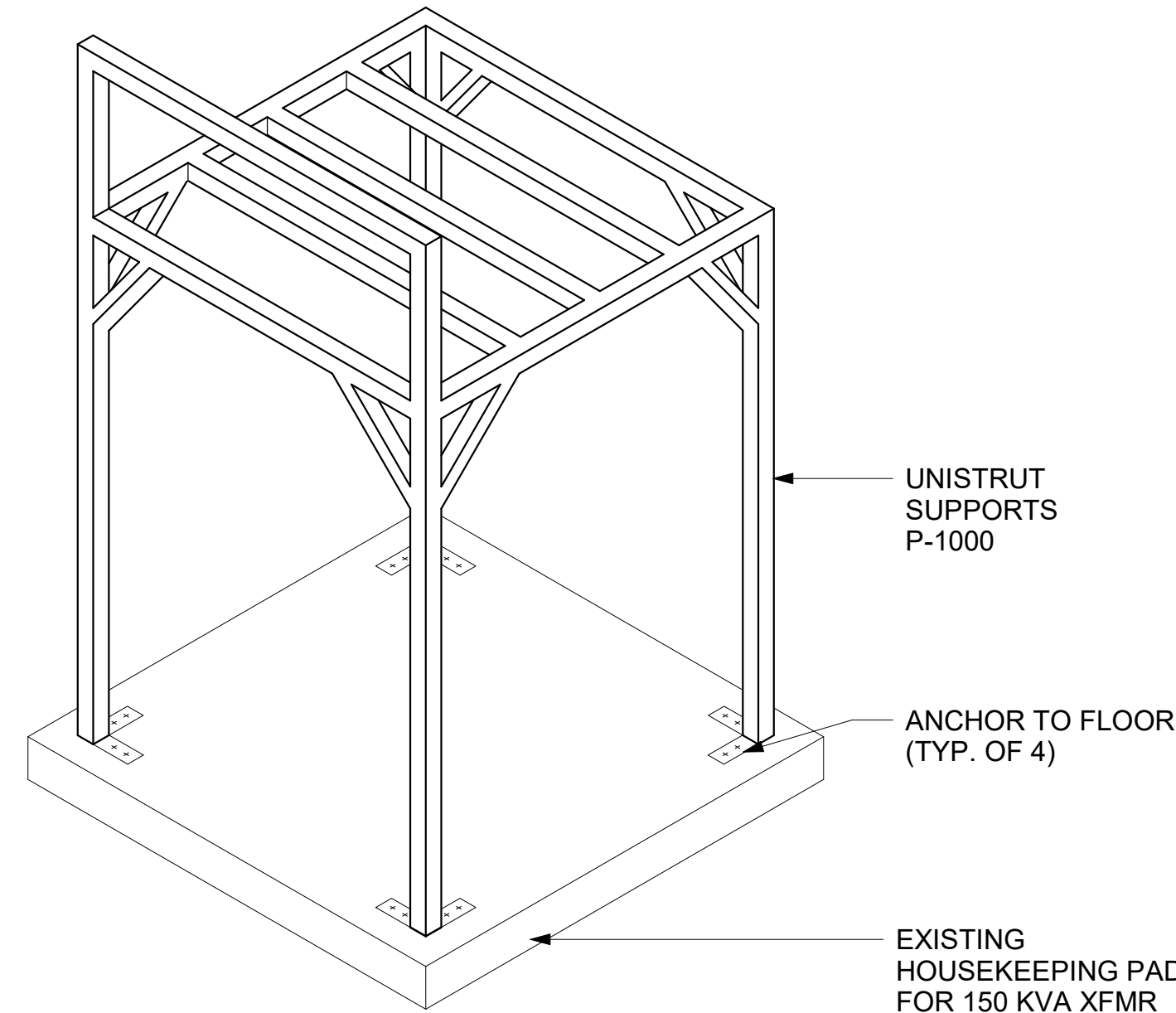
4 CONDUIT PENETRATION THRU ROOF DETAIL  
SCALE: NONE



TOP VIEW

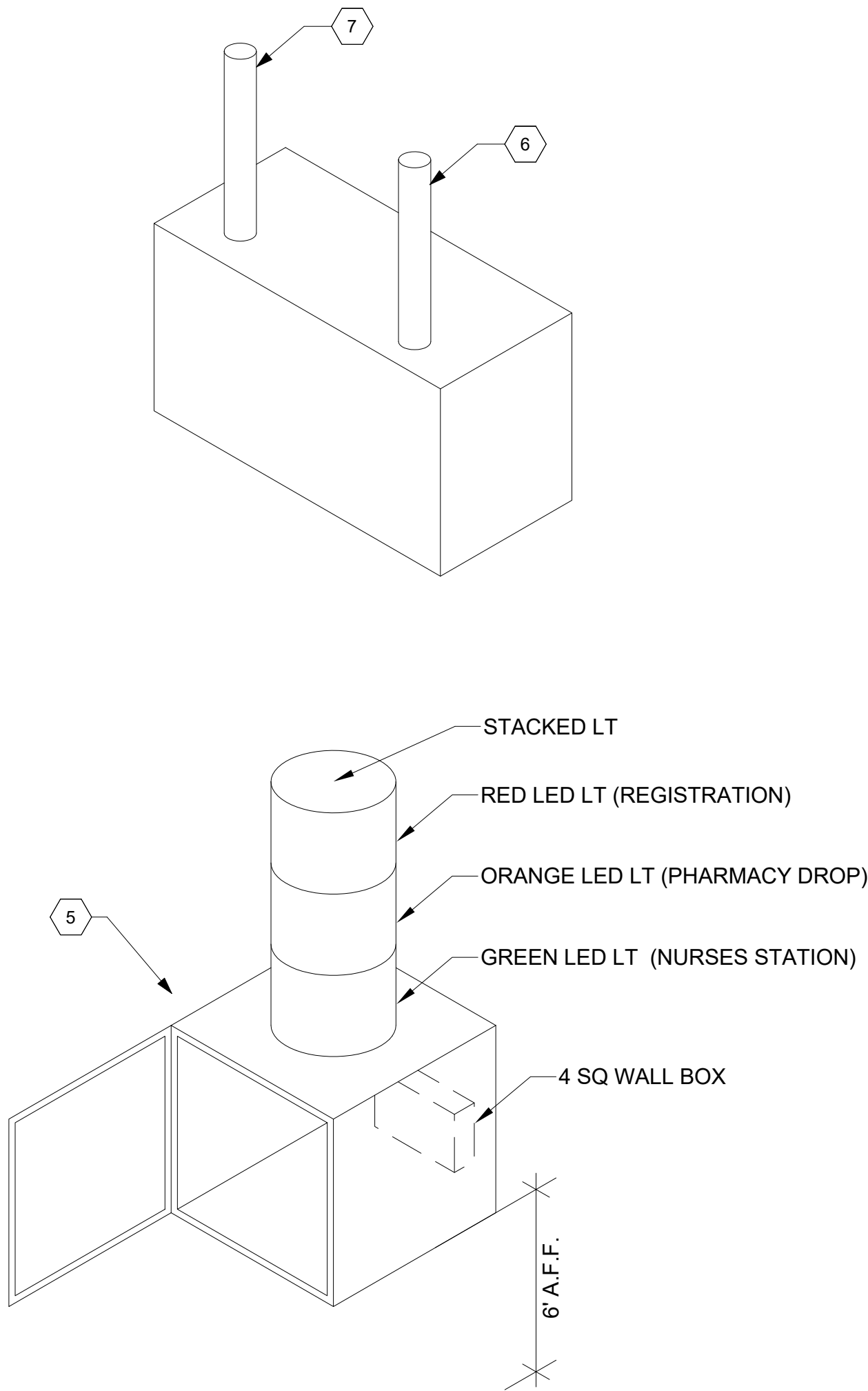


FRONT VIEW

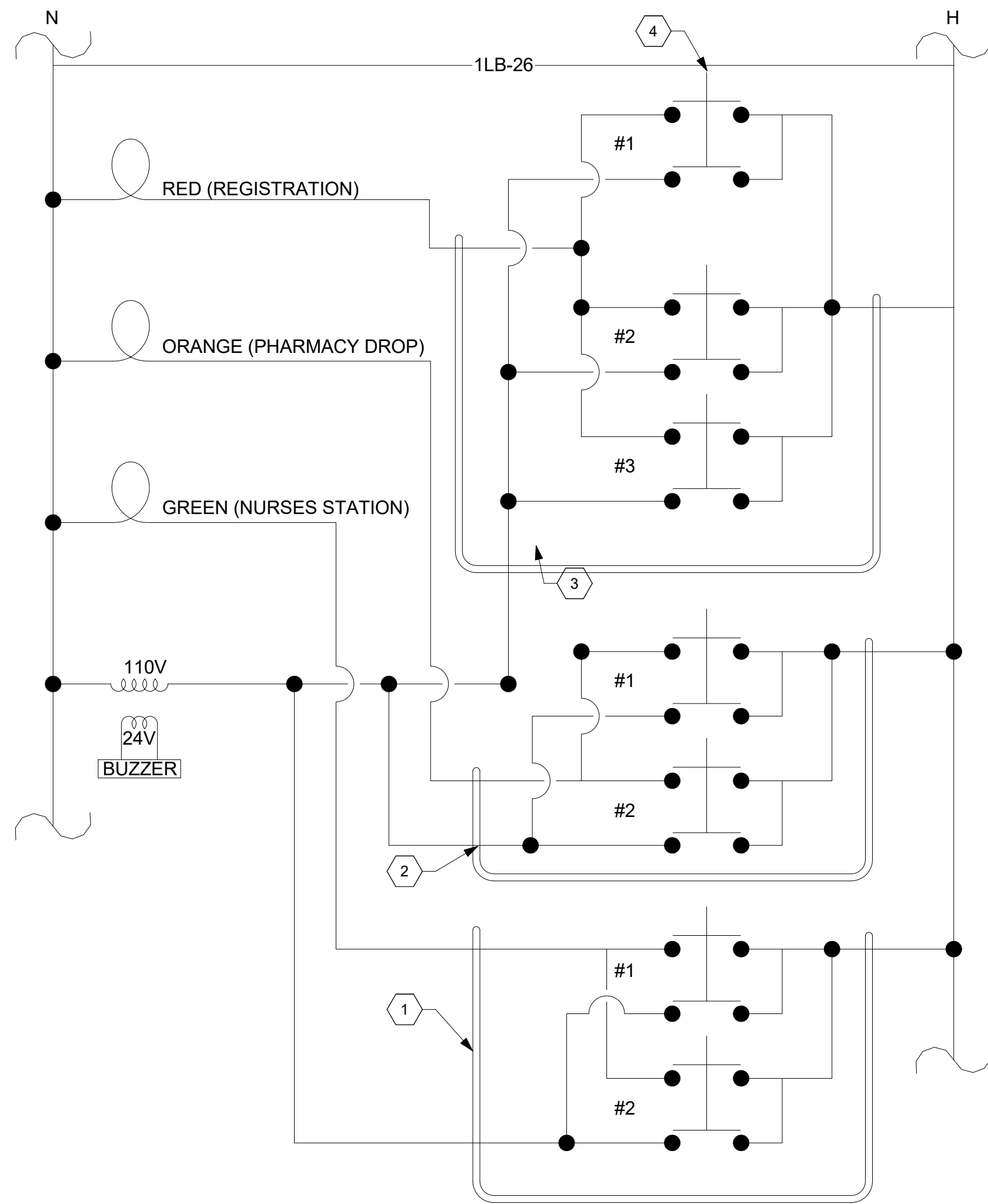


ISOMETRIC VIEW

3 UNISTRUT SUPPORT  
NOT TO SCALE



5 DURESS BUZZER / LIGHT DIAGRAM / ISOMETRIC  
SCALE: NONE



# KEYED NOTES

- 1 FLD WIRING TO NURSES STATION 1/2" C. WITH 3 #12
- 2 FLD WIRING TO PHARMACY DROP OFF 1/2" C. WITH 3 #12
- 3 FLD WIRING TO REGISTRATION 1/2" C. WITH 3 #12
- 4 DURESS BUTTON MAINTAINED CONTACT WITH SHLD TYP.
- 5 6"x6"x6" METAL ENCLOSURE WITH HINGED DOOR MOUNT 120/24V AC XFMR AND BUZZER INSIDE.
- 6 3/4" C. WITH 9 #12 TO BOX IN CEILING SPACE. THEN 3 1/2" C. EACH WITH 3 #12 TO REGISTRATION, PHARMACY DROP OFF AND TO NURSES STATION.
- 7 1/2" C. WITH HOT, NUTRAL, GROUND.



\\gvm-fsenv\fservers\users\lisa\g\Documents\20-107 HS Mesalero MEP\_v20\_isaimg\MLF.rvt

PANEL: "AC"				MAIN C.B.: 225A				LOCATION: ELEC. RM 147				PHASE 3			
VOLTAGE: 480Y/277V				ENCLOSURE: NEMA 1				FED FROM: PANEL "AA"				WIRE: 4			
BUS (A): (225A)				MOUNTING: SURFACE								KAIC: 10 KA			
BREAKER SIZE	NOTES	DESCRIPTION	LOAD (VA)	CKT NO.	PHASE LOAD			CKT NO.	LOAD (VA)	DESCRIPTION	NOTES	BREAKER SIZE			
					A	B	C								
25A/3P		RTU-1 (LAB)	3,658	1	3717			2	59						
			3,658	3		6706		4	3,048	RTU-2 (EXAM ROOMS)			15A/3P		
			3,658	5			6706	6	3,048						
15A/3P		RTU-3 (EXAM ROOMS)	3,048	7	7348			8	4,300						
			3,048	9		7348		10	4,300	RTU-4 NURSE STATION			15A/3P		
			3,048	11			7348	12	4,300						
15A/3P		RTU-5 (WAITING ROOM)	3,325	13	4323			14	998						
			3,325	15		4323		16	998	EUH-1			20A/3P		
			3,325	17			4323	18	998						
15A/3P		CU-2	388	19	1388			20	1,000						
			388	21		1388		22	1,000	CU-3			15A/3P		
			388	23			1388	24	1,000						
50A/3P		30 KVA XFMR (SERVING PANEL 1LD)	7,915	25	7915			26	0	SPARE			20A/1P		
			3,760	27		3760		28	0	SPARE			20A/1P		
			3,911	29			3911	30	0	SPARE			20A/1P		
		SPACE	0	31				32	0	SPACE					
		SPACE	0	33				34	0	SPACE					
		SPACE	0	35				36	0	SPACE					
		SPACE	0	37				38	0	SPACE					
		SPACE	0	39				40	0	SPACE					
		SPACE	0	41				42	0	SPACE					
TOTAL CONNECT VA			TOTAL CONNECTED AMPS:			86.5			NOTES:						
PHASE A: 24.692			TOTAL CONNECTED KVA:			71.9			1) PROVIDE NEUTRAL BAR & GROUND BAR						
PHASE B: 23.526									2) PROVIDE C.B. "LOCK-ON" DEVICE						
PHASE C: 23.677									3) DOOR-IN-DOOR TRIM, 42 TOTAL POSITIONS						
TOTAL = 71,894															

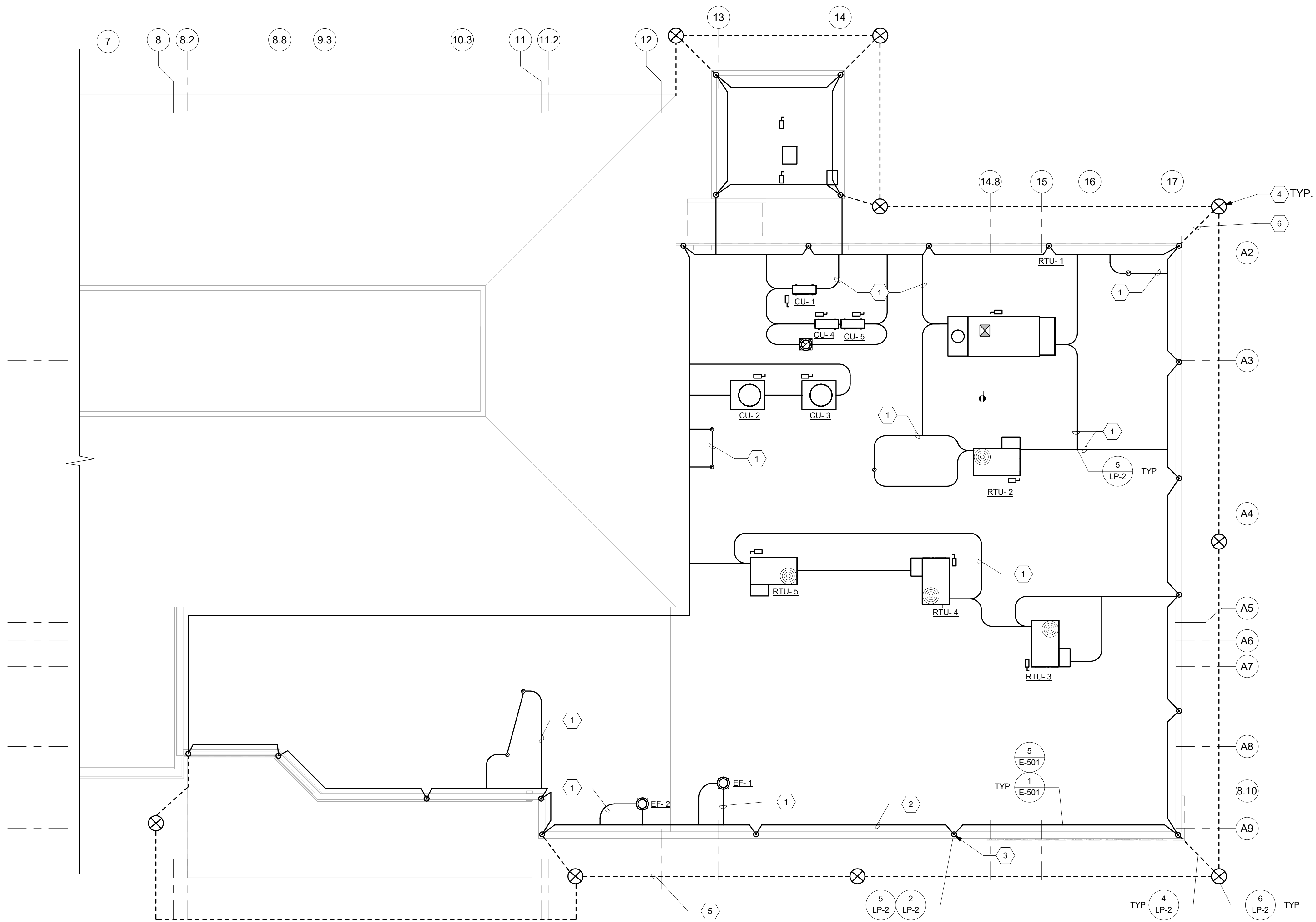
PANEL: "L1"				MAIN C.B. : (200A) SHUNT TRIP				LOCATION: IT ROOM (RM-1181)				PHASE 3			
VOLTAGE: 208Y/120V				ENCLOSURE: NEMA 1				FED FROM: PANEL AA				WIRE: 4			
BUS (A): (225A)				MOUNTING: SURFACE				THRU 75 KVA XFMR				KAIC: 10			
BREAKER SIZE	NOTES	DESCRIPTION	LOAD (VA)	CKT NO.	PHASE LOAD			CKT NO.	LOAD (VA)	DESCRIPTION	NOTES	BREAKER SIZE			
					A	B	C								
20A/1P		RM - 1181 SECURITY ACCESS RACK	180	1	360			2	180	RM - 1181 PHONE RACK		20A/1P			
20A/1P		RM - 1181 NETWORK RACK	180	3		2,180		4	2,000	RM - 1181 SERVER CABINET #1		30A/1P			
30A/1P		RM - 1181 SERVER CABINET #2	2,000	5			4,000	6	2,000	RM - 1181 SERVER CABINET #3		30A/1P			
20A/1P		RM - 1181 WORK TAB	180	7	360			8	180	RM - 1181 WORK TABLE		20A/1P			
20A/1P		RM - 1181 NORTH WALL	180	9		360		10	180	RM - 1181 NORTH WALL		20A/1P			
20A/1P		RM - 1181 WEST WALL	180	11			360	12	180	RM - 1181 WEST WALL		20A/1P			
20A/1P		RM - 1181 WEST WALL	180	13	360			14	180	RM - 1181 WEST WALL		20A/1P			
20A/1P		RECEPTS RM1182 WEST WALL	900	15		1,800		16	1,080	RECEPTS RM1182 EAST WALL		20A/1P			
20A/1P		RECEPTS RM 1183	720	17			1,440	18	720	RECEPTS RM1183		20A/1P			
20A/1P		LTG IT (1181,1182,1183)	875	19	5,675			20	5,000			50A/2P			
40A/2P		RACK 1 UPS	3,328	21		8,328		22	5,000	10 KVA UPS					
			3,328	23			9,984	24	6,656						
40A/2P		RACK 2 UPS	3,328	25	9,984			26	6,656	RACK 3 UPS		80/2P			
			3,328	27		3,328		28							
20A/1P		BACKBO IT RM		29			0	30		SPARE		20A/1P			
20A/1P		SPARE		31	0			32		SPARE		20A/1P			
20A/1P		SPARE		33		0		34		SPARE		20A/1P			
20A/1P		SPARE		35			0	36		SPARE		20A/1P			
20A/1P		SPARE		37	0			38		SPARE		20A/1P			
20A/1P		SPARE		39			0	40		SPARE		20A/1P			
20A/1P		SPARE		41			0	42		SPARE		20A/1P			
TOTAL CONNECT VA			TOTAL CONNECTED AMPS:			135.7			NOTES:						
PHASE A: 16,939			TOTAL CONNECTED KVA:			48.9			1) PROVIDE NEUTRAL BAR & GROUND BAR						
PHASE B: 16,176									2) PROVIDE C.B. "LOCK-ON" DEVICE						
PHASE C: 15,784									3) DOOR-IN-DOOR TRIM, 42 TOTAL POSITIONS						
TOTAL = 48,899															

PANEL: AB (EXISTING)				MAIN C.B.: MLO				LOCATION: PENTHOUSE				PHASE: 3			
VOLTAGE: 208Y/120V				ENCLOSURE: NEMA 1				FED FROM: PANEL AA				WIRE: 4			
BUS (A): 125A				MOUNTING: SURFACE								KAIC: 10			
BREAKER SIZE	NOTES	DESCRIPTION	LOAD (VA)	CKT NO.	PHASE LOAD			CKT NO.	LOAD (VA)	DESCRIPTION	NOTES	BREAKER SIZE			
					A	B	C								
20A/3P		M45	942	1	2,272			2	1,330	M46		20A/3P			
	942				2,272		1,330								
	942					2,272			1,330						
20A/3P		M50	3,047	3	3,629			4	582	M47		20A/3P			
	3,047				3,629		582								
	3,047					3,629			582						
40A/3P		M44	942	5	3,047			6	2,105	M48		20A/3P			
	942				3,047		2,105								
	942					3,047			2,105						
40A/3P		M31	942	7	3,047			8	2,105	M52		40A/3P			
	942				3,047		2,105								
	942					3,047			2,105						
		SPACE			3,878			10	3,878	M54		45A/3P			
		SPACE				3,878			3,878						
		SPACE					3,878				3,878				
		SPACE			0					SPACE					
		SPACE				0				SPACE					
		SPACE					0			SPACE					
		SPACE				0				SPACE					
		SPACE						0		SPACE					
		SPACE						0		SPACE					
TOTAL CONNECT VA			TOTAL CONNECTED AMPS:			57.3			NOTES:						
PHASE A: 15.873			TOTAL CONNECTED KVA:			47.6			1) PROVIDE NEUTRAL BAR & GROUND BAR						
PHASE B: 15.873									2) PROVIDE C.B. "BOLT-ON" DEVICE						
PHASE C: 15.873									3) DOOR-IN-DOOR TRIM, 42 TOTAL POSITIONS						
TOTAL = 47,619															

PANEL: "1LC"				MAIN C.B.: (225A)				LOCATION: RM1166 (W.WALL)				PHASE 3			
VOLTAGE: 208Y/120V				ENCLOSURE: NEMA 1				FED FROM: AA THRU 75 KVA				WIRE: 4			
BUS (A): (225A)				MOUNTING: SURFACE								KAIC: 10			
BREAKER SIZE	NOTES	DESCRIPTION	LOAD (VA)	CKT NO.	PHASE LOAD			CKT NO.	LOAD (VA)	DESCRIPTION	NOTES	BREAKER SIZE			
					A	B	C								
20A/1P		RECEPTS RM1137, 1139, 1110	1440	1	2160			2	720	RECEPTS RM1136		5	20A/1P		
20A/1P	5	RECEPTS RM1132	1280	3		2520		4	1280	RECEPTS RMS 1110, 1128		5	20A/1P		
20A/1P	5	RECEPTS RM1126	1440	5			2700	6	1280	RCPTS RM1122		5	20A/1P		
20A/1P		RECEPTS RM1146, EX. CORR.	1080	7	2520			8	1440	RECEPTS RM1110, 1118			20A/1P		
20A/1P		RECEPTS RM1116	1280	9			1280	10	0	SPARE			20A/1P		
20A/1P		RECEPTS RM1000, 1101A, 1103	1800	11				2340	12	540	RECEPTS RM1101, 1102, 1111		20A/1P		
20A/1P		RECEPTS RMS1106, 1110, 1113, 1115	1800	13	2840			14	1040	RM 1160			20A/1P		
20A/1P	180	RM 1105	180	15		1260		16	1030	REPTS RMS1127, 1162, 1163			20A/1P		
20A/1P		RMS- 1103, 1160	180	17			540	18	360	RECEPTS RM1167, EX. CORR			20A/1P		
20A/1P		RMS- 1164, 1166, EX. CORR	720	19	1548			20	630	LTG NO 15 OF NEW AREA			20A/1P		
20A/1P		LTG EAST- 12 OF NEW AREA	1176	21			2378	22	1020	LTG 90 CTRL. OF NEW AREA			20A/1P		
20A/1P		RECEPTS RM1151	1080	23				1800	24	720	RECEPTS RM1130	5	20A/1P		
20A/1P		RECEPTS RM1124	1440	25	2700			26	1280	RECEPTS RM1125	5	20A/1P			
20A/1P	5	RECEPTS RM1134	1280	27		1980		28	720	RECEPTS RM1185			20A/1P		
20A/1P		RECEPTS RM1107, 1107, 1147	900	29			1980	30	1080	RECEPTS RM1140			20A/1P		
20A/1P		RECEPTS RM1140, 1150	900	31	1620			32	720	RECEPTS RM1140			20A/1P		
20A/1P		RECEPTS RM1140, 1155	1080	33		2340		34	1260	RECEPTS RM1144			20A/1P		
20A/1P		RECEPTS RM1142	1080	35			1185	36	105				20A/1P		
20A/1P		PH-1 PHARMACY HOOD-1	126	37	231			38	105	SYNEX ANALYZER RM-1154	4		20A/2P		
20A/1P		SPARE		39					40				20A/1P		
20A/1P		SPARE		41					42				20A/1P		
TOTAL CONNECT VA			TOTAL CONNECTED AMPS:			99.7		NOTES							
PHASE A: 13,617			TOTAL CONNECTED KVA:			35.9		1) PROVIDE NEUTRAL BAR AND TOTAL BARS							
PHASE B: 11,738									2) PROVIDE C.B. "LOCK-ON" DEVICE						
PHASE C: 10,545									3) DOOR-IN-DOOR TRIM, 42 TOTAL POSITIONS						
TOTAL = 35,900									4) REPLACE 2-1P/20A BREAKERS WITH A 2P/20A BREAKER						
						5) MONITOR DIAGNOSTIC SET & PUMP INFUSION									



\\ngm-fserver\users\slsah\GDocuments\20-107 IHS Mescalero\_MEP\_v20\_isiahg\MLF.rvt



**1 LIGHTNING PROTECTION**  
1/8" = 1'-0"

- GENERAL NOTES:**
- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
  - B REFER TO E-13 FOR PANEL SCHEDULES.
  - C REFERENCE SHEET LP-2 FOR DETAILS.

- # KEYED NOTES**
- 1 BONDING CONDUCTORS.
  - 2 ROOF CONDUCTOR.
  - 3 AIR TERMINAL.
  - 4 GROUND ROD 3/4"x10'-0" TYPICAL.
  - 5 4/0 BARE CU COUNTER POISE 24" DEEP 5'-0" FROM BUILDING.
  - 6 DOWN CONDUCTOR.



MARK		DATE	DESCRIPTION
02		07/20/2018	AMENDMENT 002
APPROVED		10/14/2021	AMENDMENT 002
ARCHITECTURAL		MECHANICAL	ELECTRICAL
PLUMBING			

STAMP

ROSS H. KRAYER  
REGISTERED PROFESSIONAL ENGINEER  
NO. 5026

CONSULTANT

**ROCK GAP**  
ARCHITECTS & ENGINEERS  
P.C.

INDIAN HEALTH SERVICE  
S.H.S.

DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY  
RENOVATION & ADDITION  
LIGHTNING PROTECTION PLAN

DRWN BY  
VICUNA

CHKD BY  
KRAYER

SCALE  
1/8" = 1'-0"

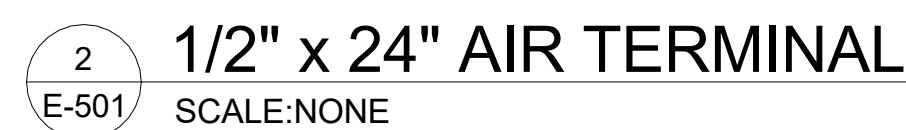
DATE  
07/20/2018

**LP-1**

PROJECT NUMBER  
117043

SHEET of

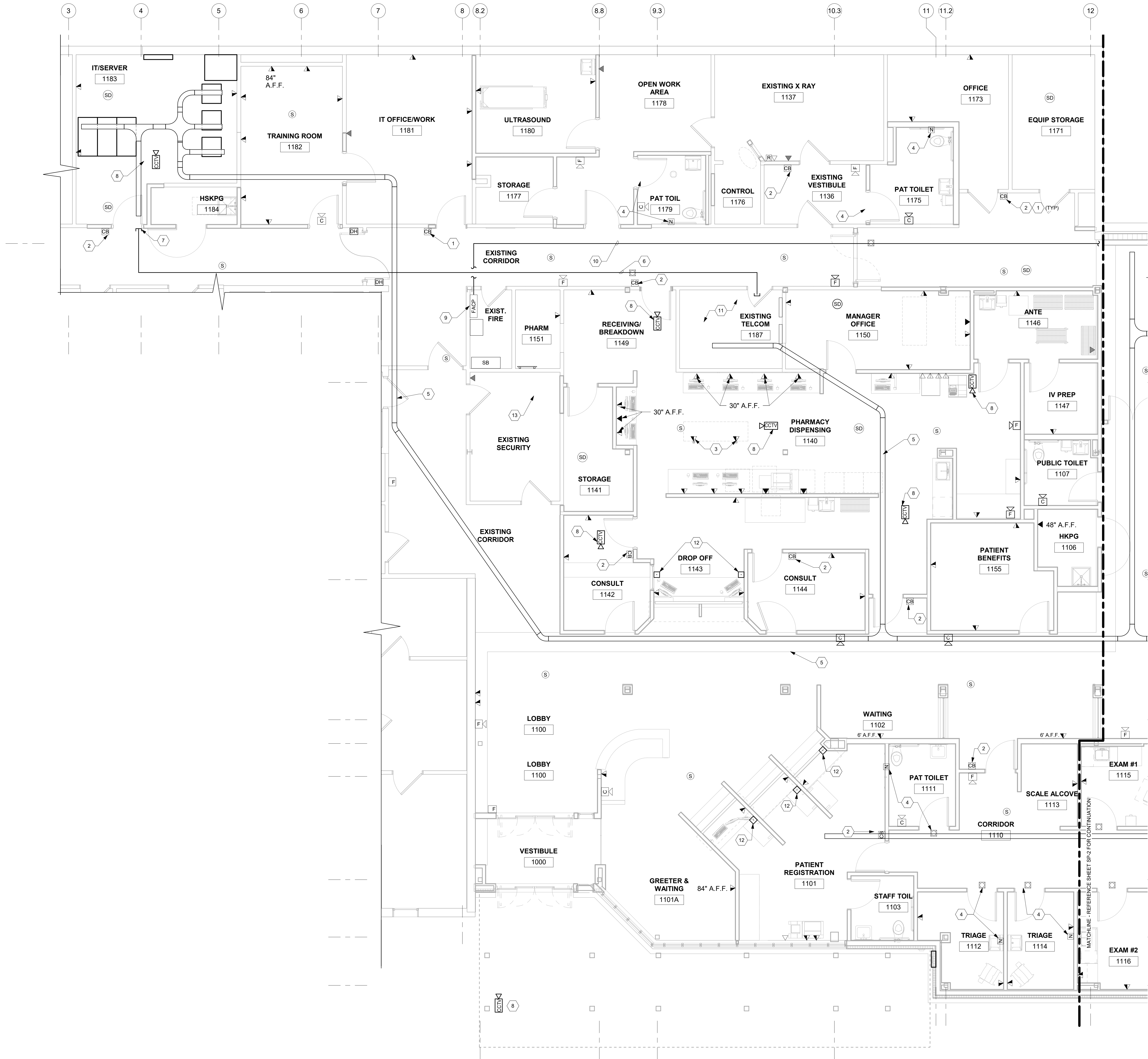




1. TYPICAL BODIES OF CONDUCTANCE AS NOTED BELOW. USE FULL SIZE CONDUCTORS AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
2. (PLUMBING STACK) REQUIRES BONDING WITH MAIN SIZE CABLE ONLY IF WITHIN 6'-0" OF LIGHTNING PROTECTION SYSTEM.
3. TYPICAL BODIES OF INDUCTANCE AS NOTED BELOW. USE SECONDARY SIZE (SMALLER) CONDUCTOR AND APPROPRIATE FITTING SHOWN FOR CONNECTION.
4. BONDING CONNECTIONS AND FITTINGS SHOWN ARE TYPICAL EXAMPLES. MAKE ALL CONNECTIONS REQUIRED TO MEET CODES AS NOTED. ADJUST FITTING TYPE AS REQUIRED TO SUIT FIELD CONDITIONS.



\\gdm-fserver\users\sls\ahG\Documents\20-107 IHS Mesalero MEP\_v20\_islaing\MLF.rvt



- GENERAL NOTES:**
- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
  - B REFER TO E-13 FOR PANEL AND LIGHT FIXTURE SCHEDULES.
  - C REFER TO SPECIFICATION 271500 AND 270001 FOR I.T. REQUIREMENTS SUMMARIZED BELOW:
    - CAT 6 (DATA/VOICE)
      - ALL NETWORK CABLES SHALL BE HOME RUN TO EACH IDENTIFIED LOCATION AND TERMINATE ON NETWORK RACK, PATCH PANEL.
      - ALL VOICE CABLES SHALL BE HOME RUN TO EACH IDENTIFIED LOCATION AND TERMINATE ON VOICE RACK, PATCH PANEL.
      - ALL CABLE LOCATION INSTALL SHALL BE 2 DATA/ 1 VOICE, UNLESS SPECIFIED OTHERWISE.
      - ALL PATCH PANELS AND NETWORK JACKS SHALL MATCH CAT6 CABLE SPECIFICATIONS.
      - ALL PATCH PANELS SHALL BE SECURED TO RESPECTIVE RACKS AND SHALL BE 48 PORT (24 PORT AS REQUIRED) AND SHALL BE RATED FOR CAT 6 CABLE.
      - ALL PATCH PANELS SHALL UTILIZE CABLE MANAGEMENT ON BACK OF PATCH PANEL (DRESS CABLING TO CABLE MANAGEMENT).
      - ALL CABLES SHALL BE PROPERLY LABELED AND IDENTIFIED WITH MACHINE GENERATED LABELS.
    - CAT 6 - FAX LINES
      - ALL FAX LINE CABLES SHALL BE HOME RUN FROM EACH IDENTIFIED LOCATION AND TERMINATE IN TELCO ROOM (ROOM 1187).
      - ALL FAX LINE CABLES IN TELCO ROOM SHALL BE TERMINATED ON 66 PHONE BLOCKS IN DESIGNATED LOCATION.
      - ALL FAX LINE CABLES SHALL BE PROPERLY LABELED AND IDENTIFIED WITH MACHINE GENERATED LOCATIONS.
  - D REFER TO SPECIFICATION 270536 FOR CABLE TRAYS.
  - E REFER TO SPECIFICATION 275116 FOR PUBLIC ADDRESS.
  - F REFER TO SPECIFICATION 275223 FOR NURSE CALL SYSTEM .
  - G REFER TO SPECIFICATION 281321 FOR ACCESS CONTROL
  - H REFER TO SPECIFICATION 283110 FOR FIRE ALARM

- KEYED NOTES**
- ACCESS CONTROL BOX ROUGH-IN CONDUIT FROM BOX TO HIRSCH CONTROL PANEL IN ROOM 1187.
  - DOOR CONTROL BOX ROUGH-IN FOR FLUSH MOUNTED KEYPAD WITH CONDUIT AND PULL WIRE HIRSCH CONTROL PANEL IN ROOM 1187.
  - 2 DATA OUTLETS AT 30" AND 48" ABOVE FINISH ON TEL/POWER POLE FED FROM ABOVE.
  - NURSE CALL PULL CORD/BUTTON AND ALARM LIGHT OVER DOOR.
  - BASKET CABLE TRAY, 6"W X 6"D.
  - CONTRACTOR TO INSTALL 450-4 PAIR CAT6 CABLES ON J OR V HOOKS.
  - REFER TO E-10 DETAIL1, ENLARGED PLAN.
  - INSTALL NEW CCTV CAMERA.
  - EXISTING FACP.
  - 3/4" C. WITH 2 #12 TO NEW PIV.
  - REFER TO 27-0001 FOR WORK IN THIS ROOM.
  - DURESS BUTTON BELOW COUNTER.
  - DURESS BUZZER & LIGHT MOUNTED 6' A.F.F. CONTRACTOR COORDINATE WITH SECURITY FOR LOCATION. RED LIGHT - REGISTRATION ORANGE LIGHT - PHARMACY AND GREEN LIGHT - NURSES STATION. REFER TO E-12 FOR WIRING DIAGRAM.

1 SPECIAL SYSTEMS PLAN - SECTION 1



MARK	DATE	DESCRIPTION
01	07/20/2018	AMENDMENT-001
02	10/14/2021	AMENDMENT-002
APPROVED		ARCHITECTURAL
		MECHANICAL
		ELECTRICAL
		PLUMBING

STAMP: JOSH H. KRAYER, P.E., 5026

Consultant: ROCK GAP, P.C., 1000 N. 10TH ST., SUITE 100, ALBUQUERQUE, NM 87102

INDIAN HEALTH SERVICE, 4101 Indian School Road NE, Albuquerque, New Mexico 87110

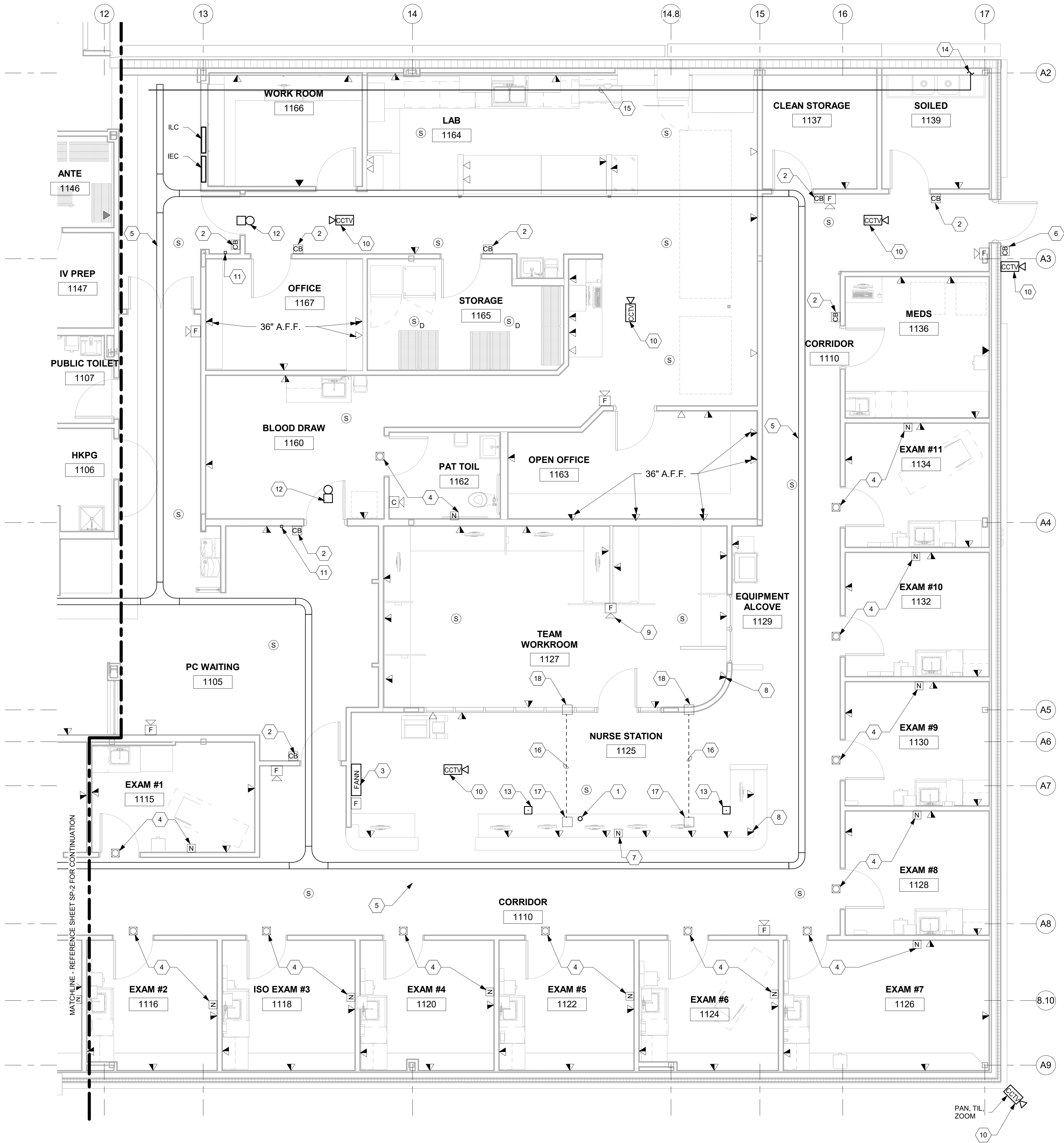
DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88503 OTERO COUNTY  
RENOVATION & ADDITION  
SPECIAL SYSTEMS PLAN - SECTION 1

DRWN BY VICUNA  
CHKD BY KRAYER  
SCALE 1/4" = 1'-0"  
DATE 07/20/2018  
SP-1  
PROJECT NUMBER 117043  
SHEET of



\\gmn-fserver\users\isaiah\Documents\20-107 IHS Mesalero MEP\_v20\_isaiah\MLF.rvt



## 1 SPECIAL SYSTEMS PLAN - SECTION 2

1/4" = 1'-0"

### GENERAL NOTES:

- A REFER TO E-1 FOR GENERAL NOTES AND SYMBOLS.
- B REFER TO E-13 FOR PANEL AND LIGHT FIXTURE SCHEDULES.
- C REFER TO SPECIFICATION 271500 AND 270001 FOR I.T. REQUIREMENTS SUMMARIZED BELOW:

#### CAT 6 (DATA/VOICE)

- ALL NETWORK CABLES SHALL BE HOME RUN TO EACH IDENTIFIED LOCATION AND TERMINATE ON NETWORK RACK, PATCH PANEL.
- ALL VOICE CABLES SHALL BE HOME RUN TO EACH IDENTIFIED LOCATION AND TERMINATE ON VOICE RACK, PATCH PANEL.
- ALL CABLE LOCATION INSTALL SHALL BE 2 DATA/ 1 VOICE, UNLESS SPECIFIED OTHERWISE.
- ALL PATCH PANELS AND NETWORK JACKS SHALL MATCH CAT6 CABLE SPECIFICATIONS.
- ALL PATCH PANELS SHALL BE SECURED TO RESPECTIVE RACKS AND SHALL BE 48 PORT (24 PORT AS REQUIRED) AND SHALL BE RATED FOR CAT 6 CABLE.
- ALL PATCH PANELS SHALL UTILIZE CABLE MANAGEMENT ON BACK OF PATCH PANEL (DRESS CABLING TO CABLE MANAGEMENT).
- ALL CABLES SHALL BE PROPERLY LABELED AND IDENTIFIED WITH MACHINE GENERATED LABELS.

#### CAT 6 - FAX LINES

- ALL FAX LINE CABLES SHALL BE HOME RUN FROM EACH IDENTIFIED LOCATION AND TERMINATE IN TELCO ROOM (ROOM 1187).
- ALL FAX LINE CABLES IN TELCO ROOM SHALL BE TERMINATED ON 66 PHONE BLOCKS IN DESIGNATED LOCATION.
- ALL FAX LINE CABLES SHALL BE PROPERLY LABELED AND IDENTIFIED WITH MACHINE GENERATED LOCATIONS.

D REFER TO SPECIFICATION 270536 FOR CABLE TRAYS.

E REFER TO SPECIFICATION 275116 FOR PUBLIC ADDRESS.

F REFER TO SPECIFICATION 275223 FOR NURSE CALL SYSTEM .

G REFER TO SPECIFICATION 281321 FOR ACCESS CONTROL




H REFER TO SPECIFICATION 283110 FOR FIRE ALARM

### # KEYED NOTES

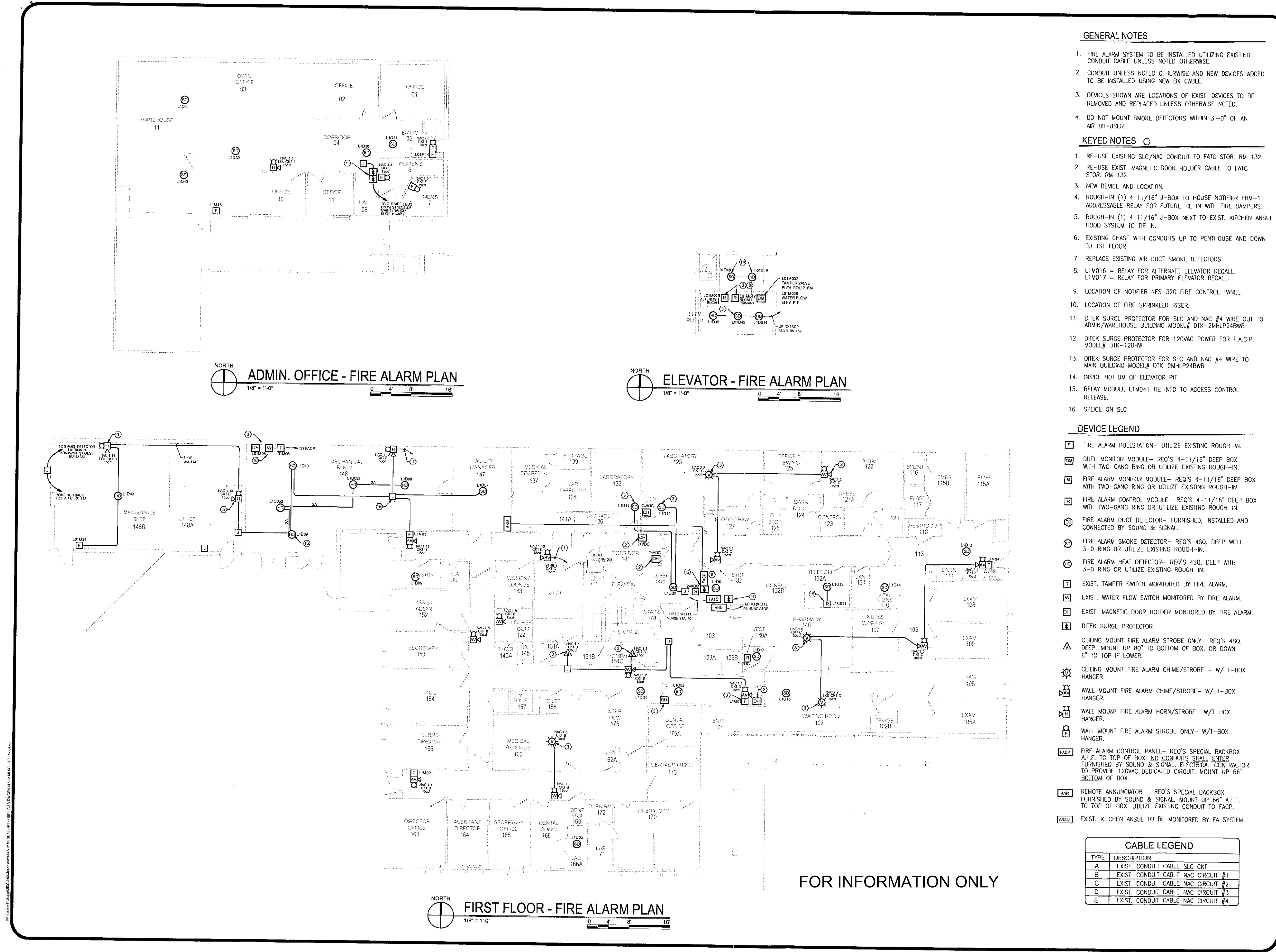
- INSTALL DURESS BUTTON BELOW COUNTER. COORDINATE LOCATION WITH USER. BUTTON WIRED TO AV DEVICE IN SECURITY OFFICE.
- DOOR CONTROL BOX ROUGH-IN FOR FLUSH MOUNTED KEYPAD WITH CONDUIT AND PULL WIRE HIRSCH CONTROL PANEL IN ROOM 1187.
- FIRE ALARM REMOTE ANNUNCIATOR.
- NURSE CALL PULL CORD/BUTTON AND ALARM LIGHT OVER DOOR.
- BASKET CABLE TRAY, 6"W X 6"D.
- NEMA 3R DOOR CONTROL BOX ROUGH-IN FOR FLUSH MOUNTED KEYPAD WITH CONDUIT AND PULL WIRE TO HIRSCH CONTROL PANEL IN ROOM 1187.
- NURSE CALL NURSE STATION.
- OUTLET IN SOFFIT FOR TV MONITOR AT 84" A.F.F.
- CHIME STROBE.
- REINSTALL CCTV CAMERA REMOVED ON SHEET DSP-1.
- DOOR BELL BUTTON MOUNT 48" A.F.F.
- DOOR BELL WITH STEP DOWN (120/24V) TRANSFORMER. FEED 120V FROM NEAREST RECEPTACLE CIRCUIT, MOUNT 6" BELOW CEILING ABOVE DOOR.
- DURESS BUTTON BELOW COUNTER. BUTTON WIRED TO AV DEVICE IN SECURITY OFFICE.
- TO NEW PIV REFER TO E-2 FOR CONTINUATION.
- 3/4" C. WITH 2 #12 FOR TAMPER SWITCH AT NEW PIV.
- 2- 3/8" C. UNDER FLOOR.
- 4" SQ FLOOR BOX.
- 4" SQ BOX 6" A.F.F.

0' 2' 4' 8' 16'



SHEET		of	
PROJECT NUMBER		117043	
SP-2			
DATE		07/20/2018	
SCALE		1/4" = 1'-0"	
CHKD BY		KRAYER	
DRWN BY		VICUNA	
MESCALERO SERVICE UNIT			
318 ABALONE LOOP MESCALERO, NM 86503 OTERO COUNTY			
RENOVATION & ADDITION			
SPECIAL SYSTEMS PLAN - SECTION 2			
DEPARTMENT OF HEALTH AND HUMAN SERVICES			
INDIAN HEALTH SERVICE			
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING			
ALBUQUERQUE AREA OFFICE			
4101 Indian School Road NE			
Albuquerque, New Mexico 87110			
			
CONSULTANT			
			
STAMP			
			
MARK		DATE	
01		08/23/2018	
02		10/14/2021	
APPROVED		ARCHITECTURAL	
		MECHANICAL	
		ELECTRICAL	
		PLUMBING	





Sound & Signal Systems  
of NEW MEXICO, Inc.  
7131 WASHINGTON ST. NW  
ALBUQUERQUE, NM 87109  
WWW.SOUNDANDSIGNALNM.COM  
(505) 884-1217

INDIAN HEALTH SERVICES  
ALBUQUERQUE, NM 87104

MESCALERO HOSPITAL  
MESCALERO, NM

GROUP 'B' OCCUPANCY  
APPROX. AREA= 19,000 SQ. FT.

DESIGNER:	BRYAN BUNDRANT
NICET SUB FIELD	FIRE ALARM SYSTEMS
NICET LEVEL	IV
CERTIFICATION NUMBER	117035
CERT. EXPIRATION DATE	JULY 1, 2015
ADDRESS: SOUND & SIGNAL SYSTEMS 3033 STANFORD DR. NE ALBUQUERQUE, NM 87107	
SIGNATURE	DATE

DATE	DESCRIPTION
7/9/12/19	MECH. RM 148
8/24/18	FIRE ALARM AS-BUILTS
10/20/17	ACCESS CONTROL TIE IN
04/27/15	ELEVATOR UPGRD AS-BUILTS
09/16/14	REVISED FIRE ALARM AS-BUILTS
01/03/14	REVISED FIRE ALARM AS-BUILTS
11/27/13	FIRE ALARM AS-BUILTS
08/19/13	FIRE ALARM PLANS

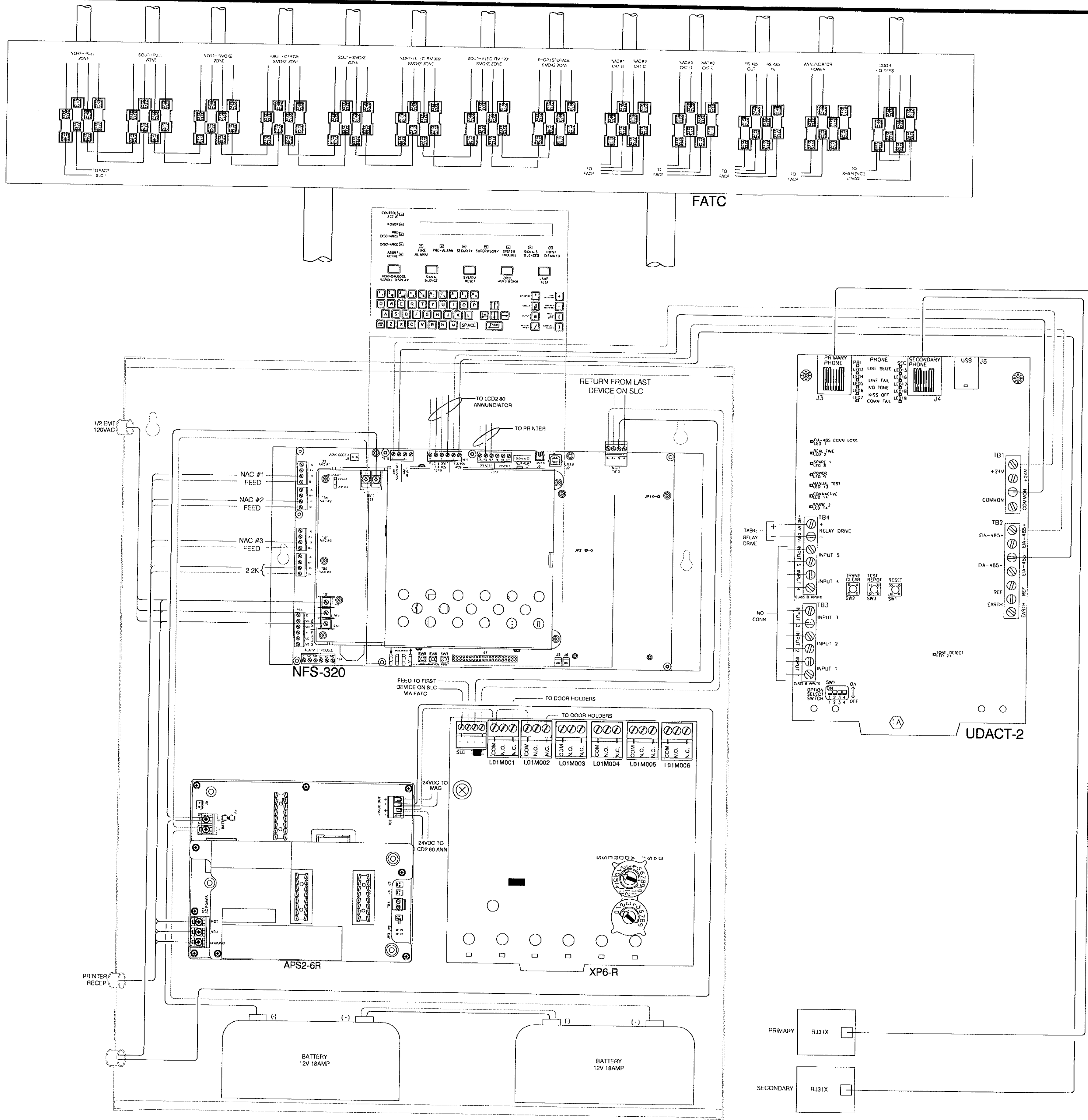
CHECKED BY: BRYAN BUNDRANT  
DRAWN BY: FRB  
FILE NAME: 9347-12 MESO HSP FA-1  
SCALE: 1/8" = 1'-0"

SHEET TITLE:  
ADMIN. OFFICE /  
BSMNT. / FIRST FLOOR  
FIRE ALARM PLAN

FA-1  
PAGE: 2 OF 5



\\ngm-fserver\users\slsah\Documents\20-107 IHS Mescalero\_MEP\_v20\_islahg\MLF.rvt



FIRE ALARM CONTROL PANEL DETAIL  
NOT TO SCALE

FOR INFORMATION ONLY

Sound & Signal Systems  
of NEW MEXICO, Inc.  
7131 WASHINGTON ST. NW  
ALBUQUERQUE, NM 87109  
WWW.SOUNDANDSIGNALNM.COM  
(505) 884-1217

INDIAN HEALTH SERVICES  
ALBUQUERQUE, NM 87104  
MESCALERO HOSPITAL  
MESCALERO, NM

NO.	DATE	DESCRIPTION
6	8/24/18	FIRE ALARM AS-BUILTS
5	10/20/17	ACCESS CONTROL TIE IN
4	04/27/15	ELEVATOR UPGRADE - AS-BUILTS
3	09/16/14	REVISED FIRE ALARM AS-BUILTS
2	01/03/14	REVISED FIRE ALARM AS-BUILTS
1	11/27/13	FIRE ALARM AS-BUILTS
0	08/19/13	FIRE ALARM PLANS

CHECKED BY: BRYAN BUNDRANT  
DRAWN BY: RRB  
FILE NAME: 9347-12 MESC HSP DETAILS FA-3  
SCALE: 1/8" = 1'-0"  
SHEET TITLE:

FACP DETAILS

FA-3

PAGE: 4 OF 5

MARK: 02  
DATE: 10/10/21  
DESCRIPTION: AMENDMENT 002

APPROVED: [Signature]  
ELECTRICAL  
MECHANICAL  
ARCHITECTURAL  
PLUMBING

STAMP

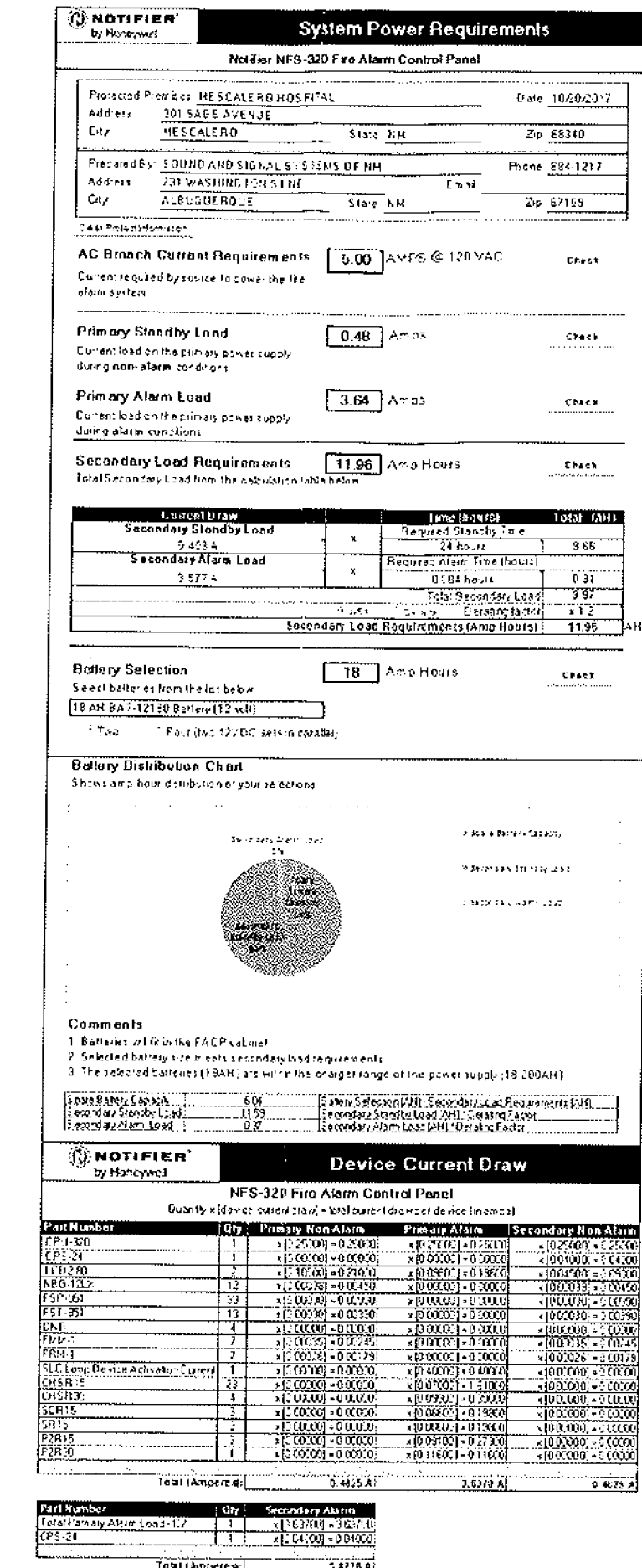
ROCK GAP  
CONSULTANT  
ARCHITECTURAL  
MECHANICAL  
ELECTRICAL  
PLUMBING

INDIAN HEALTH SERVICE  
SHS  
DEPARTMENT OF HEALTH AND HUMAN SERVICES  
INDIAN HEALTH SERVICE  
OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING  
ALBUQUERQUE AREA OFFICE  
4101 Indian School Road NE Albuquerque, New Mexico 87110

MESCALERO SERVICE UNIT  
318 ABALONE LOOP MESCALERO, NM 88603 OTERO COUNTY  
RENOVATION & ADDITION  
FACP DETAILS

DRWN BY: Author  
CHKD BY: Checker  
SCALE: 1/4" = 1'-0"  
DATE: 07/20/2018  
SP-4  
PROJECT NUMBER: 117043  
SHEET: of





CAUSE	FACILITY				CITY				STATE				NATION			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SMITZGER WATER FLOW																
MANUAL FIRE ALARM STATION																
SMOKE DETECTOR																
SMOKE DETECTOR IN TELLER WORK AREA																
SMOKE DETECTOR IN TELLER CONTROL ROOM																
DUST SMOKE DETECTOR IN SERVING AREA																
HEAT DETECTOR																
SUPPLY VENTILATION																
THIEFABLE CONTAINER																
TOTAL OF POINTS TO VALUE																

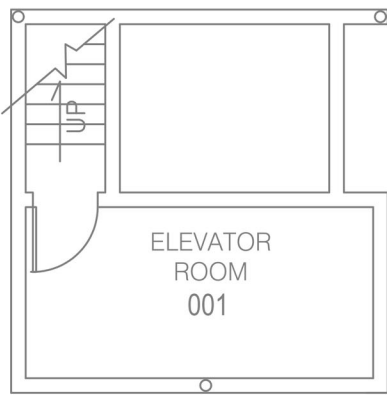
FOR INFORMATION ONLY

SHEET	of	PROJECT NUMBER	117043	SP-5	DATE 07/20/2018	SCALE 1/4" = 1'-0"	CHKD BY Checker	DRWN BY Author	MESCALERO SERVICE UNIT 318 ABALONE LOOP MESCALERO, NM 86803 OTERO COUNTY	BATTERY CALCS / VOLTAGE DROPS / RISER DIAGRAM	DEPARTMENT OF HEALTH AND HUMAN SERVICES INDIAN HEALTH SERVICE OFFICE OF ENVIRONMENTAL HEALTH AND ENGINEERING ALBUQUERQUE AREA OFFICE 4101 Indian School Road NE Albuquerque, New Mexico 87110	INDIAN HEALTH SERVICE S.H.S. 1965	CONSULTANT ROCK GAP C O N S U L T I N G 10000 UNIVERSITY BLVD. N.E. ALBUQUERQUE, NM 87111 TEL: 505.833.0421 FAX: 505.833.0422 WWW.ROCKGAP.COM	STAMP	MARK	DATE	DESCRIPTION
																02	10/14/2021

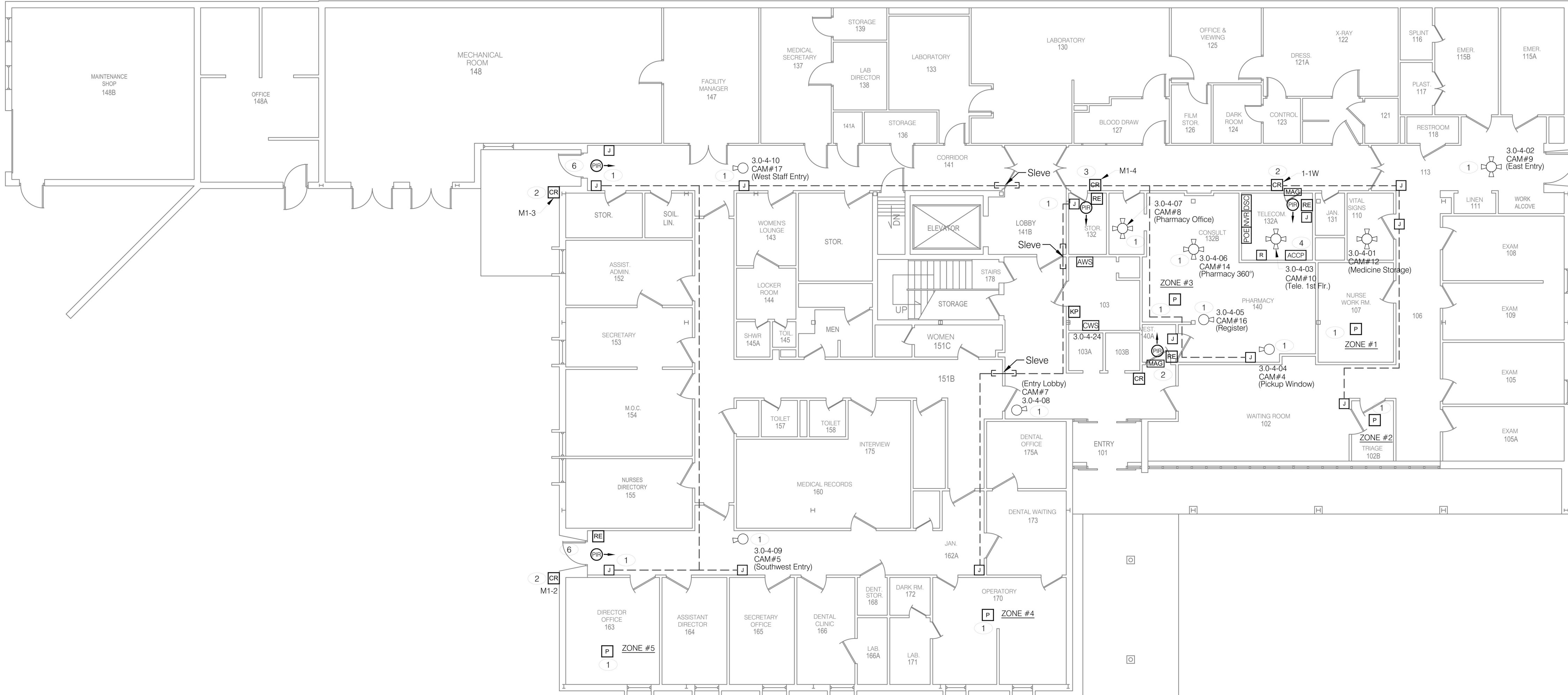




**ADMIN. OFFICE - ACCESS / SECURITY PLAN**



**ELEVATOR RM. - ACCESS / SECURITY PLAN**



**FIRST FLOOR PLAN - ACCESS / SECURITY PLAN**

0 4' 8' 16'

FOR INFORMATION ONLY

TYPE	DESCRIPTION
PANIC BUTTON	20 AWG / 2 CONDUCTOR, PURPLE CMP CABLE
DSC KEYPAD	18 AWG / 4 CONDUCTOR, PURPLE CMP CABLE
CAMERAS	CAT-6, PURPLE CMP CABLE
ACCESS CONTROL	COMPOSITE MULTI - CONDUCTOR, PLENUM CABLE
SECURITY COMMBUS	20 AWG / 4 CONDUCTOR, PURPLE PLENUM OR AQUA SEAL OSP CABLE.
CCTV BACKBONE	FIBER SINGLE MODE 4 STRAND 50 MICRON

#### GENERAL NOTES

- EXTERIOR WALL ABATEMENT AND COORING OF EXTERIOR WALLS FOR CARD READERS AND CAMERAS WILL BE DONE BY GRANCOR.
- ALL ELECTRICAL 120V POWER TO BE INSTALLED BY SOUND AND SIGNAL OR ELECTRICAL SUBCONTRACTOR.
- ACCESS CONTROL HEAD-END EQUIPMENT: CAMERA HEADEND EQUIPMENT AND COMPUTER WORKSTATION TO BE INSTALLED BY SOUND AND SIGNAL SYSTEMS.
- ELECTRICAL POWER SUPPLIES FOR EACH DOOR LOCATION, WILL BE LOCATED IN DATA ROOMS. THESE POWER SUPPLIES SHALL REQUIRE 120VAC INSTALLED BY SOUND AND SIGNAL SYSTEMS OR ELECTRICAL SUBCONTRACTOR.
- ALL FIELD INQUIRES TO BE COORDINATED WITH SOUND AND SIGNAL SYSTEMS.
- ALL CAMERA CABLE TO BE PURPLE CAT-6 WITH JACK AND PLATE TERMINATION AT EACH CAMERA LOCATION.
- ALL CAMERA NETWORK P.O.E. SWITCHES AND SECURITY WORK STATIONS SHALL BE CONNECTED TO A U.P.S.
- ALL SECURITY HEADEND EQUIPMENT SHALL BE HARDWIRED TO 120VAC SURGE PROTECTORS.
- OUTDOOR CARD READERS SHALL BE A COMBO PROXIMITY SCRAMBLE PADS. REQUIRES SPECIAL BACKBOX MB-9. PROVIDED BY SOUND AND SIGNAL.
- PLENUM RATED WEST PENN COMPOSITE PART #12H15073 ROUTED FROM EACH DOOR BACK TO ACCESS CONTROL HEAD-END EQUIPMENT. INSTALLED BY SOUND AND SIGNAL.
- IHS / FACILITY TO PROVIDE (1) ANALOG PHONE LINE FOR CONNECTION TO PANIC ALARM DSC PANEL IN ROOM 132A.
- IHS / FACILITY TO PROVIDE NETWORK PORT FOR ACCESS CONTROL PANEL IN ROOM 152A AND ROOM 153.

#### KEY NOTES

- ROUTE CABLE TO TELECOM RM 132A.
- SCRAMBLE / PROXIMITY READER WITH MB-8 BACKBOX FOR INTERIOR LOCATION OR MB-9 BACKBOX FOR EXTERIOR LOCATIONS.
- PROXIMITY READER ONLY.
- NETWORK CABLE TO NEW HRHSC MX 8 CONTROLLER. EXTEND RS-485 4 CONDUCTOR CABLE TO OTHER MX CONTROLLER ON 2ND FLOOR.
- GRANCOR TO MODIFY EXISTING AUTOMATIC DOOR OPERATOR AND UPGRADE FOR SECURITY INTERFACE.
- GRANCOR TO MODIFY EXISTING DOOR TO INCLUDE POWER SUPPLY FOR PANIC HARDWARE LATCH RETRACTION.

#### DEVICE LEGEND

- ACCESS CONTROL/SECURITY CABINET - 18X15.25 WALL MOUNTED CABINET AND POWER SUPPLY FOR THE DOORS. PROVIDED BY SOUND AND SIGNAL. REQS 120VAC. TO BE TIED TO BUILDINGS IT NETWORK. SEE DETAIL 1 ON SHEET TY-4.
- CEILING MOUNTED REQUEST TO EXIT MOTION DETECTOR PROVIDED AND INSTALLED BY SOUND AND SIGNAL. SEE DETAIL 2 OR 3 ON SHEET TY-4.
- FIXED SAMSUNG IP CAMERA SEE DETAIL 4 ON SHEET TY-4.
- FIXED SAMSUNG OUTDOOR IP CAMERA.
- OUTDOOR SAMSUNG IP PANTILT ZOOM CAMERA. SEE DETAIL 5 ON SHEET TY-4.
- INDOOR SAMSUNG FISHEYE CAMERA.
- DSC LCD SECURITY KEYPAD DISPLAY FOR PANIC ALARMS.
- DOOR CONTACT.
- ELECTRIC DOOR STRIKE.
- CARD READER - PROVIDED AND INSTALLED BY SOUND AND SIGNAL. SEE DETAIL 2 OR 3 ON SHEET TY-4.
- 6" x 6" x 4" J-BOX FOR ALL CABLING CONNECTIONS AS WELL AS TO HOUSE MELM 2 INPUT MODULES.
- SECURITY PANIC BUTTON HARDWIRED TO DSC SECURITY PANEL.
- LOCATION OF NEW ADDRESSABLE FIRE ALARM RELAY TO BE CONNECTED TO THE ACCESS CONTROL SYSTEM WHICH WILL RELEASE ALL LOCKING HARDWARE UPON ACTIVATION OF FIRE ALARM SYSTEM. SEE DETAIL 1 ON SHEET TY-4.
- ACCESS HRISH COMPUTER WORKSTATION WITH ENROLLMENT READER, CAMERA AND PRINTER.
- SAMSUNG CAMERA WORKSTATION.
- CCTV NETWORK POWER OVER ETHERNET SWITCHES WITH U.P.S. AND DATA PATCH PANEL.
- DSC 16 ZONE SECURITY PANEL SEE DETAIL 5 ON SHEET TY-4.
- REQUEST TO EXIT BUTTON TO BE TIED TO MAGNETIC LOCK. SEE DETAIL 2 OR 3 ON SHEET TY-4.
- ELECTRIC MAGNETIC DOOR LOCK WITH BUILT IN DOOR SENSOR PROVIDED AND INSTALLED BY SOUND AND SIGNAL. SEE DETAIL 2 OR 3 ON SHEET TY-4.
- NETWORK VIDEO RECORDER.
- AIRPHONE INTERCOM SYSTEM.

**Sound & Signal Systems**  
of NEW MEXICO, Inc.  
7131 WASHINGTON ST. N.E.  
ALBUQUERQUE, NM 87109  
WWW.SOUNDANDSIGNALNM.COM  
(505) 884-1217

**INDIAN HEALTH SERVICE**

MESCALERO HOSPITAL  
MESCALERO, NM 88340

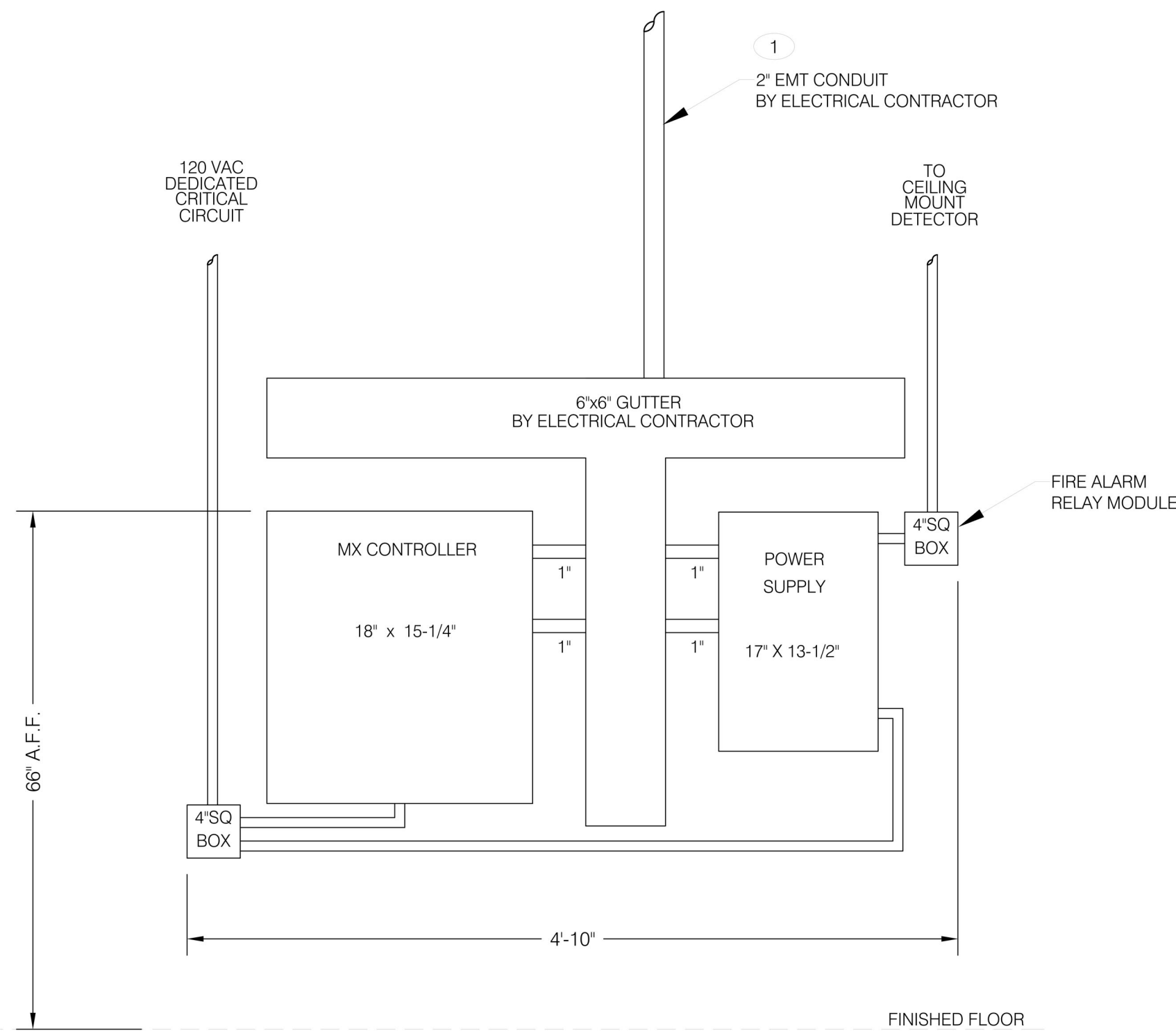
1 8/24/18 As-builts  
0 6/20/17 SHOP DRAWING  
DATE: DESCRIPTION:

SHEET TITLE:  
**ADMIN. / ELEV. RM  
FIRST FLOOR  
ACCESS/SEC. PLAN**

TY-1

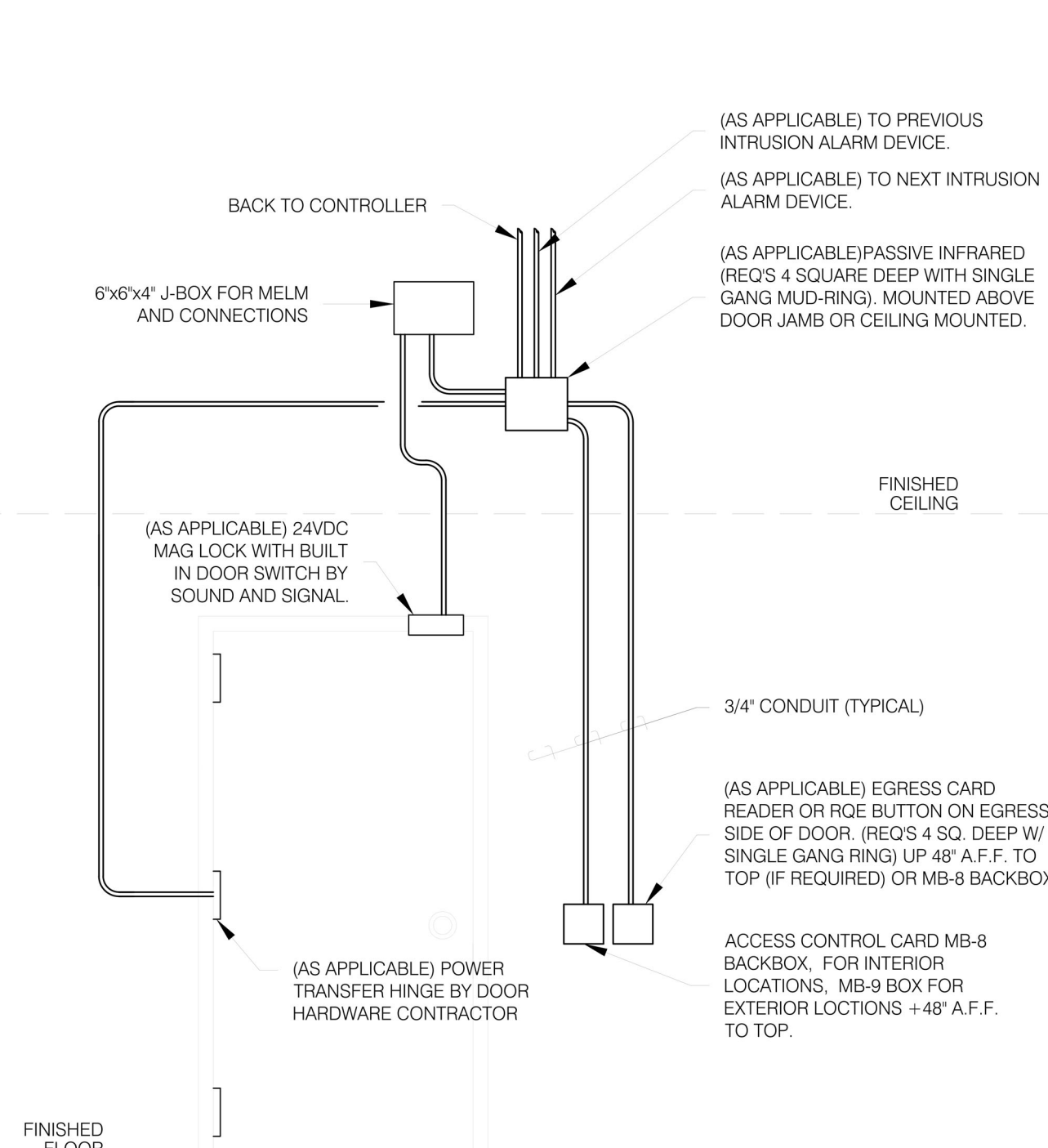
PAGE: 1 OF 4





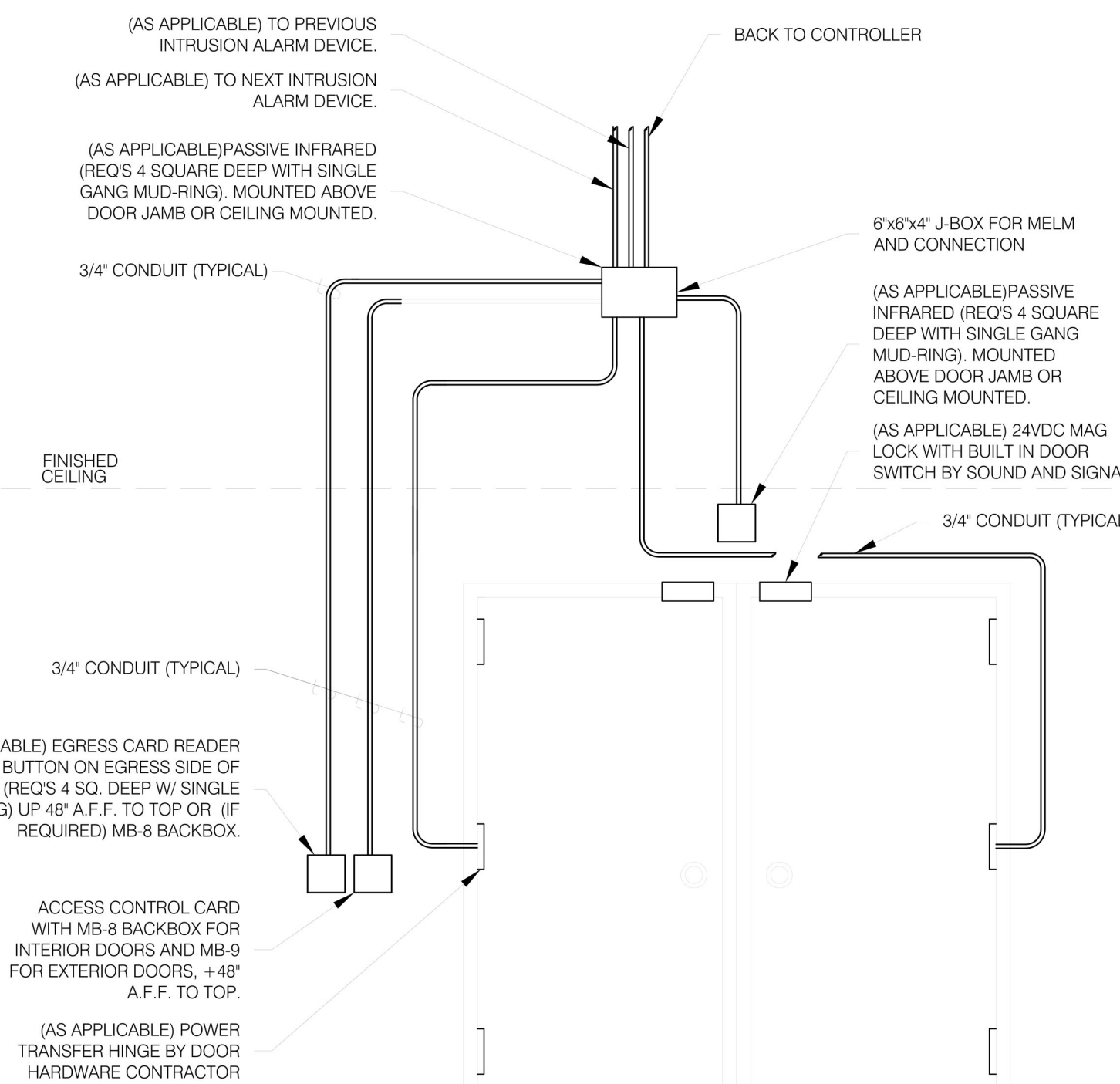
**HEAD-END EQUIPMENT MOUNTING DETAIL**  
**RM 3100 AND IT RM 4104**

1 NOT TO SCALE



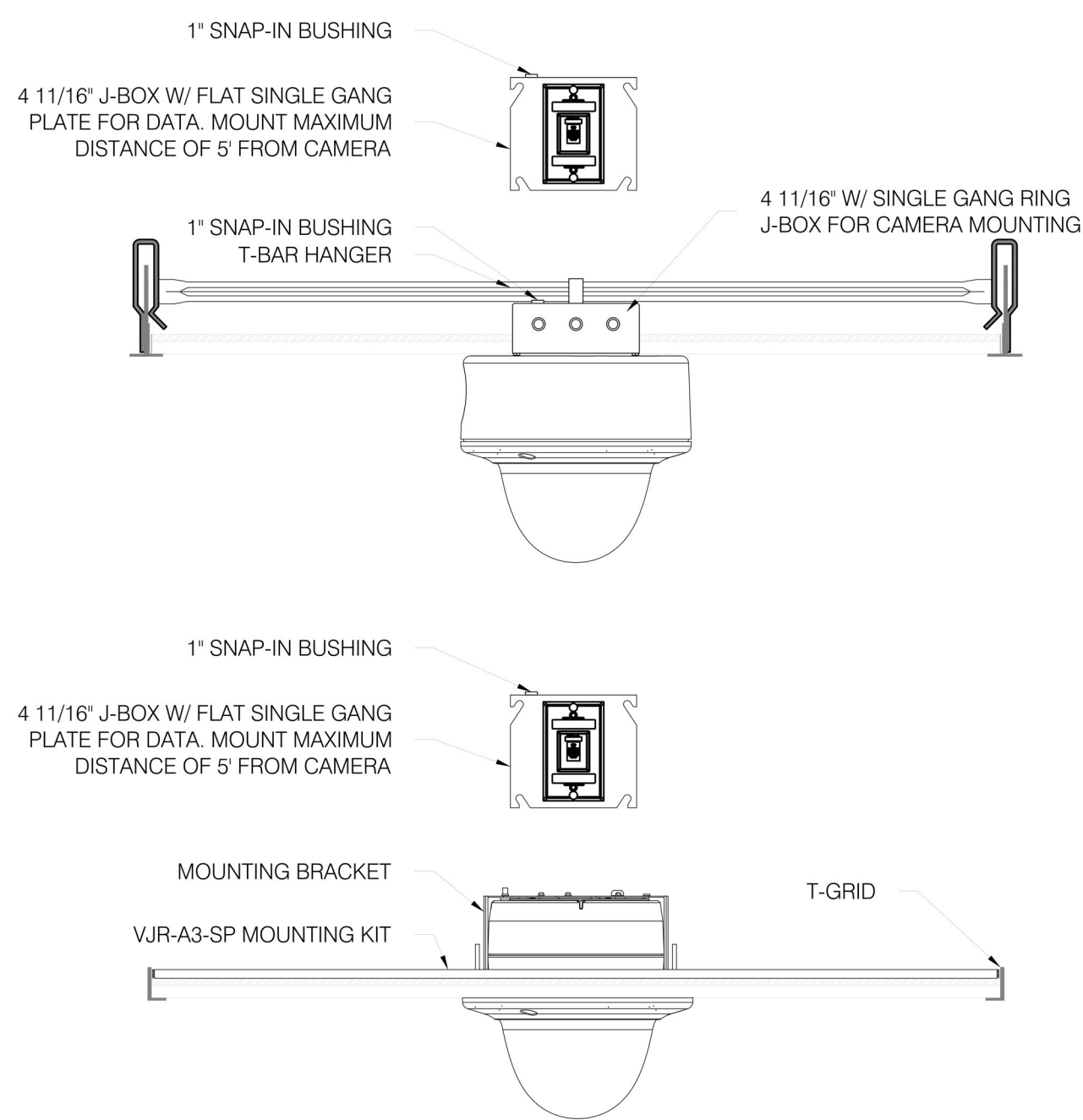
**SINGLE DOOR ACCESS / SECURITY DETAIL**

2 NOT TO SCALE



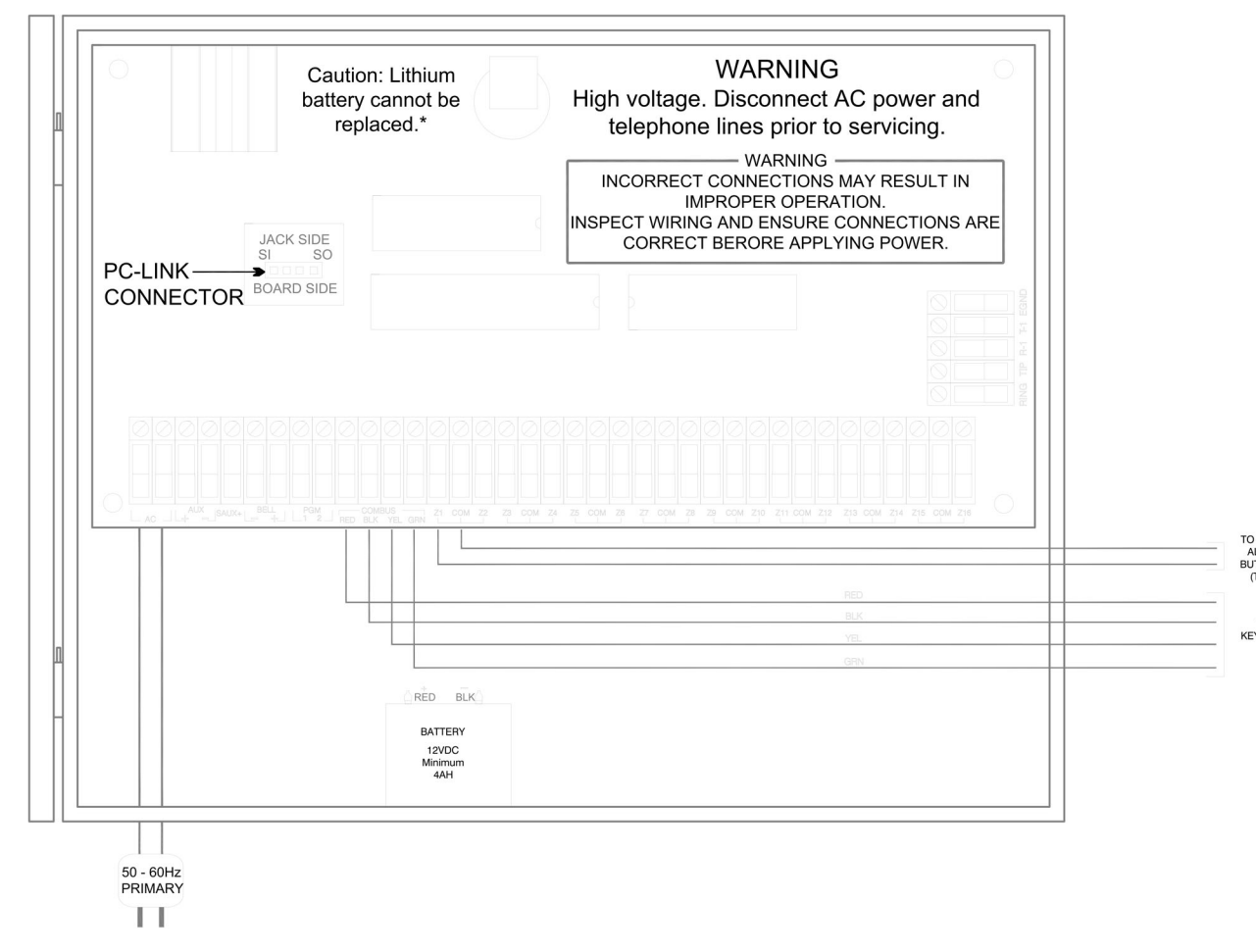
**DOUBLE DOOR ACCESS / SECURITY DETAIL**

3 NOT TO SCALE



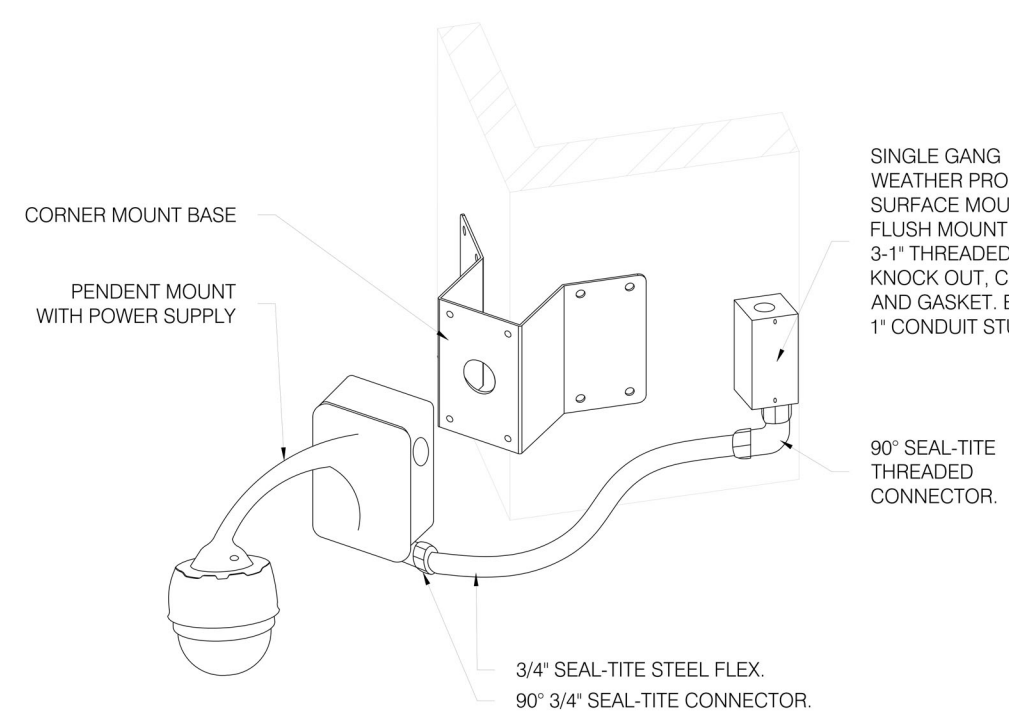
**INTERIOR CCTV CAMERA**  
**FLUSH & RECESSED CEILING MOUNTED**

4 NOT TO SCALE



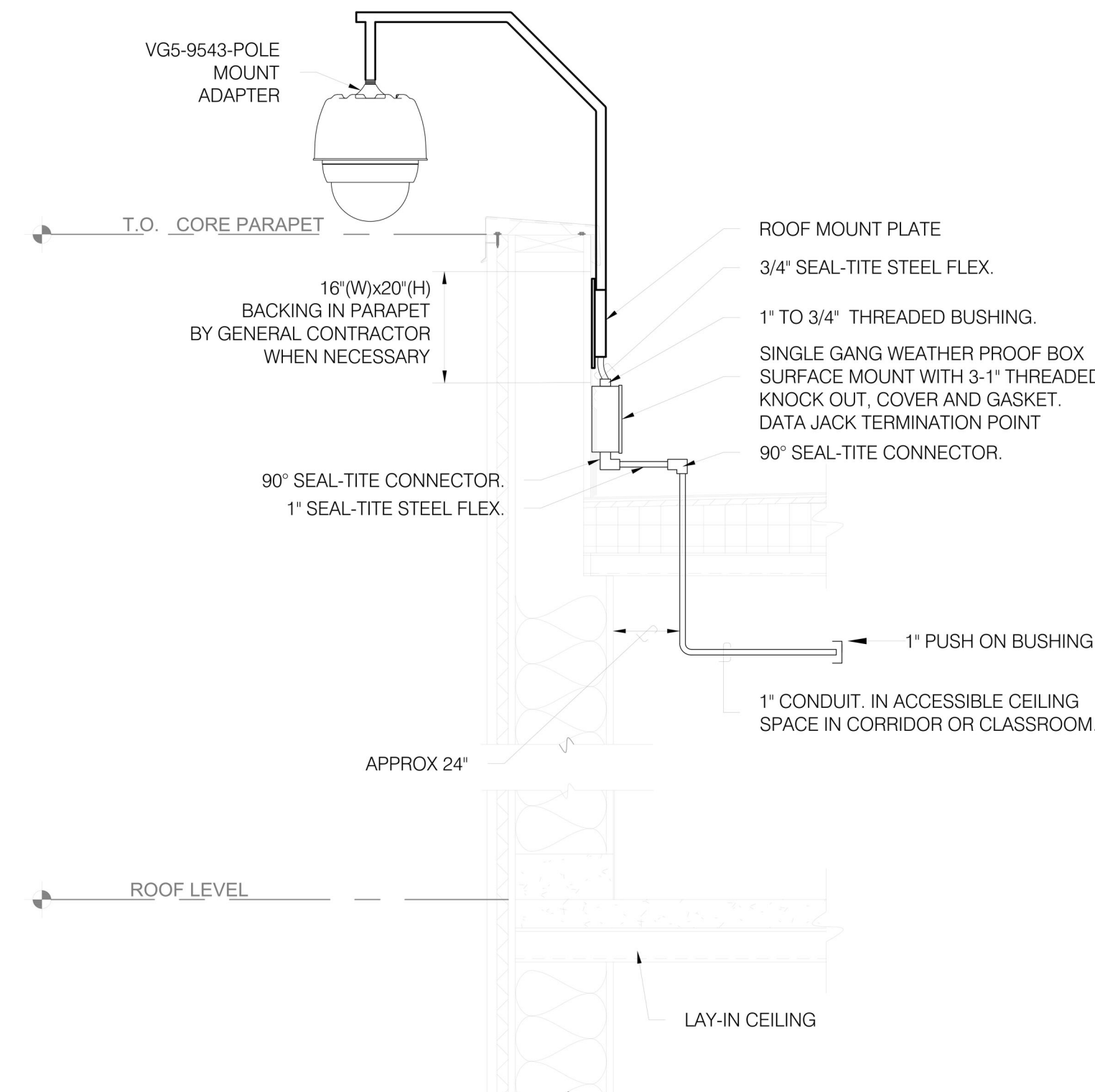
**DSC16 ZONE**  
**SECURITY PANEL RM 121D**

5 NOT TO SCALE



**EXTERIOR CCTV CAMERA**  
**CORNER MOUNTED**

6 NOT TO SCALE



**EXTERIOR CCTV CAMERA**  
**PARAPET MOUNTED**

7 NOT TO SCALE

FOR INFORMATION ONLY

**Sound & Signal Systems**  
of NEW MEXICO, Inc.  
7131 WASHINGTON ST. N.E.  
ALBUQUERQUE, NM 87109  
WWW.SOUNDANDSIGNALNM.COM  
(505) 884-1217

**INDIAN HEALTH**  
**SERVICE**

MESCALERO HOSPITAL  
MESCALERO, NM 88340

1 8/24/18 As-builts  
0 6/20/17 SHOP DRAWING  
DATE: DESCRIPTION:

CHECKED BY: Ted Aragon  
DRAWN BY: RRB  
FILE NAME: 10791-C150 Mesq Hosp-TY-1  
SCALE: 1/8" = 1'-0"  
SHEET TITLE:

**ACCESS / SEC.**  
**DETAILS**

TY-4  
PAGE: 4 OF 4