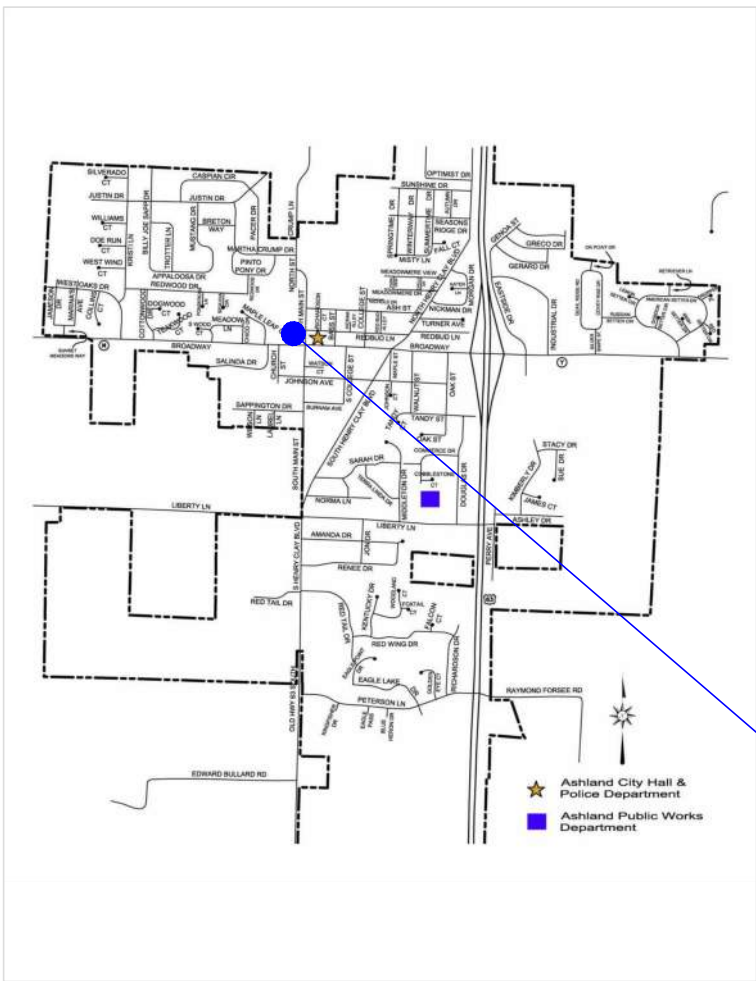


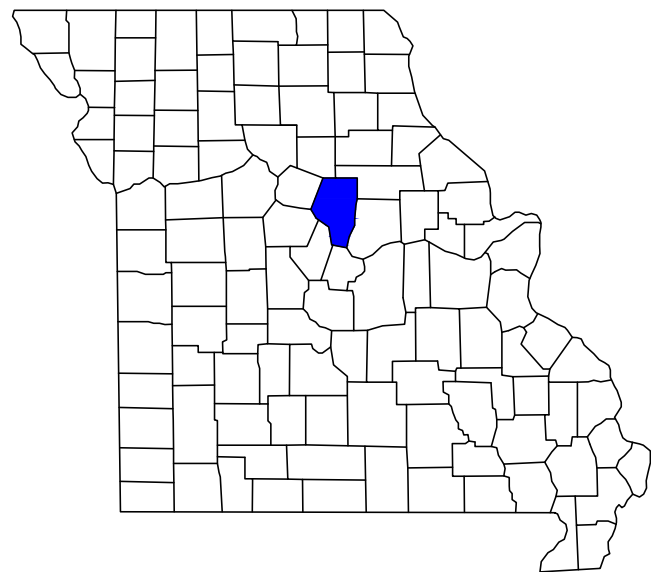
Proposed Remodeling for:

ASHLAND CITY HALL

101 West Broadway
Ashland, Boone County, Missouri 65010



City of ASHLAND



BOONE COUNTY, MO

PROJECT SCOPE:

REMODELING AND RELATED IMPROVEMENTS TO PORTIONS OF AN EXISTING BUILDING PREVIOUSLY OCCUPIED BY THE YMCA. EXISTING SUITE "A" REMAINS OCCUPIED BY THE CALLAWAY BANK. THE EXISTING BUILDING IS TWO STORY - APPROX. 9,100 S.F. ON MAIN LEVEL AND 620 S.F. ON THE UPPER LEVEL. THE NEW OCCUPANT WILL BE THE CITY HALL FOR THE CITY OF ASHLAND. OCCUPANCY IS MIXED USE CONTAINING PRIMARILY B (BUSINESS) USE AND A SMALL A-3 (ASSEMBLY) USE GROUP. THE TYPE OF CONSTRUCTION WILL BE CLASSIFIED AS VB. THE BUILDING IS NOT SPRINKLERED AND WILL REMAIN NOT SPRINKLERED UNDER THESE IMPROVEMENTS.

NOTE THAT THIS SET OF PLANS IS FOR BIDDING PURPOSES AS WELL AS PERMITTING.

BUILDING CODES IN EFFECT:

IBC/2012, NEC/2014, IFG/2012, IMC/2012, IFMC/2012, IFGC/2012, IECC/2012, IEBC/2012, IFG/2012 ICC/ANSI A117.1-2011 ACCESSIBILITY CODE AS AMENDED AND ADOPTED BY THE CITY OF COLUMBIA, MISSOURI

DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE:

JAY D. BERENDZEN, ARCHITECT
PORTER, BERENDZEN & ASSOCIATES, P.C.

DEFERRED SUBMITTALS:

1. FIRE ALARM SHOP DRAWINGS

BIDDING INFORMATION:

BASE BID - SEE PLANS - ALL WORK NOT INDICATE AS AN ALTERNATE.
ALTERNATE NO. 1: SECURE PARKING AREA WITH FENCE.
ALTERNATE NO. 2: GENERATOR AND PAD
ALTERNATE NO. 3: UPGRADE LIGHTING IN SOUTH AREA OF BUILDING

OWNER:
The City of Ashland, Missouri



Current Address:
Ashland City Hall
109 East Broadway
Ashland, Missouri 65010
573-657-2091

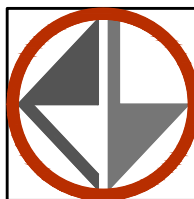
GENERAL CONTRACTOR:
To Be Determined - Public Bid



XXXX
XXXX, Missouri XXXX
XXX.XXX.XXXX cell phone

XXXX XXXXXX
XXXX@XXXXXX.com

ARCHITECT:
PORTER, BERENDZEN & ASSOCIATES, P.C.



200 South Henry Clay Blvd.
Ashland, Missouri 65010
573.657.2022 phone
pba-architecture.com

Jay D. Berendzen, AIA
jay@pba-architecture.com
Jon D. Berendzen, AIA
jon@pba-architecture.com

CIVIL ENGINEER:
NONE



STRUCTURAL ENGINEER:
NONE



MECHANICAL-ELECTRICAL-PLUMBING ENGINEERING:
MIDWEST ENGINEERING & DESIGN



3100 Brown Station Rd., Suite C
Columbia, Missouri 65202
573.875.0045 phone
moengineering.com

Jim Dove, PE
jdove@moengineering.com

SHEET INDEX

General		
G001	-	COVER SHEET
G201	-	CODE PLAN
Civil	-	NONE
Structural	-	NONE
Architectural		
A100	-	SITE PLAN
A101	-	FLOOR PLAN - EXISTING
A102	-	FLOOR PLAN - DEMOLITION
A103	-	FLOOR PLAN - REMODEL
A104	-	REFLECTED CEILING PLAN
A201	-	EXTERIOR ELEVATIONS
A301	-	SECTIONS & DETAILS
A401	-	INTERIOR ELEVATIONS
A501	-	SCHEDULES
MEP		
P101	-	PLUMBING DEMOLITION PLAN
P102	-	PLUMBING RENOVATION PLAN
P601	-	PLUMBING SCHEDULES AND DETAILS
M101	-	MECHANICAL HVAC DEMOLITION PLAN
M102	-	MECHANICAL HVAC PLAN
M103	-	MECHANICAL HVAC ROOF PLAN
M601	-	MECHANICAL HVAC DETAILS AND DEVICE SCHEDULES
E100	-	ELECTRICAL SITE PLAN
E101	-	ELECTRICAL DEMOLITION PLAN
E102	-	ELECTRICAL LIGHTING PLAN
E103	-	ELECTRICAL POWER PLAN
E104	-	SECURITY PLAN
E501	-	ELECTRICAL RISER DETAILS
E502	-	EMERGENCY GENERATOR DETAILS
E601	-	ELECTRICAL PANEL SCHEDULES



GENERAL NOTES

IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND EACH OF HIS SUBCONTRACTORS TO REVIEW THE DRAWINGS TO ASSURE COORDINATION OF ALL WORK AFFECTING EACH TRADE. FAILURE TO REVIEW ALL CONTRACT DOCUMENTS FOR APPLICABLE ITEMS OF WORK SHALL NOT RELIEVE THE RESPONSIBLE PARTY FROM PERFORMING ALL WORK REQUIRED.

- CIVIL, STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING - NOTIFY THE DESIGN TEAM OF ALL CONFLICTS WITHIN THE WORK.
- DRAWINGS - THESE DRAWINGS SHALL NOT BE SCALED. REFER TO DIMENSIONS INDICATED. ACTUAL SIZES OF CONSTRUCTION ITEMS, OR OTHER METHODS OF LOCATING CONSTRUCTION. WHERE NO DIMENSION OR METHOD OF DETERMINING A LOCATION IS GIVEN, VERIFY CORRECT LOCATION WITH THE DESIGN TEAM PRIOR TO INSTALLATION.
- DIMENSIONS - DIMENSIONS ON PLANS ARE FROM FACE OF CONCRETE, MASONRY, OR FRAMING UNLESS OTHERWISE NOTED. DIMENSIONS INDICATED AS "CLEAR" SHALL BE A MINIMUM DIMENSION, (FACE TO FACE) OF FINISH MATERIALS.
- COORDINATION - GENERAL CONTRACTOR SHALL COORDINATE REQUIREMENTS OF ALL TRADES TO ALLOW FOR TIMELY INCLUSION IN THE WORK SO AS NOT TO DELAY THE WORK OR THE WORK OF ANY SUBCONTRACTOR.
- EQUIPMENT - REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY ANY REQUIREMENTS FOR ROUGH-IN OR CONNECTION PRIOR TO CONSTRUCTION TO ASSURE CORRECT INSTALLATION, OPENINGS, ELECTRICAL, MECHANICAL, BLOCKING, ETC.
- DUCTS, PIPE, CONDUIT, ETC. - ALL VERTICAL AND HORIZONTAL DUCTS, PIPES, CONDUIT, ETC. (WHETHER SHOWN OR NOT) IN FINISHED ROOMS SHALL BE LOCATED WITHIN WALLS OR ABOVE FINISHED CEILINGS. ITEMS THAT CANNOT BE LOCATED WITHIN WALLS OR CEILINGS SHALL BE FURRED IN AND FINISHED TO MATCH ADJACENT SURFACES AND ANY REQUIRED WALL OR CEILING RATINGS. VERIFY ACCEPTABILITY WITH THE DESIGN TEAM PRIOR TO CONCEALMENT.
- FIXTURES - LAVATORIES AND SINKS SHALL BE INSTALLED A MINIMUM OF 4" FROM FINISHED SIDE WALLS. FAUCETS SHALL BE INSTALLED WITH A MINIMUM OF 5" FROM THE OUTLET TO THE FLOOD RIM OF SINKS. INCLUDING THOSE EQUIPPED WITH VACUUM BREAKERS. WATER CLOSETS SHALL BE INSTALLED A MINIMUM OF 16" FROM FINISHED SIDE WALLS TO CENTERLINE OF FIXTURES.
- BLOCKING - BLOCKING OUTSIDE THE BUILDING ENVELOPE OR SUBJECT TO MOIST OR HUMID CONDITIONS SHALL BE PRESSURE TREATED AND USE CORROSION RESISTANT FASTENERS.
- ACCESS DOORS - FURNISH AND INSTALL ACCESS DOORS IN WALLS AND NON-ACCESSIBLE TYPE CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL, FIRE PROTECTION, PLUMBING, ELECTRICAL, OR OTHER EQUIPMENT IS REQUIRED. WHERE WALL OR CEILING IS REQUIRED TO BE RATED, PROVIDE ACCESS DOORS OF FIRE RATING EQUAL TO THE ASSEMBLY IN WHICH THEY OCCUR.
- EXISTING CONDITIONS - THE EXISTING CONDITIONS SHOWN ON THESE DRAWINGS ARE BASED ON INFORMATION PROVIDED TO THE DESIGN TEAM. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON THE JOB SITE, AND NOTIFY THE DESIGN TEAM OF DEVIATIONS FROM THESE DRAWINGS PRIOR TO FABRICATION AND INSTALLATION OF THE WORK.
- PRECAUTIONS - IF UNFORESEEN CONDITIONS ARE DISCOVERED WHICH COULD RESULT IN DAMAGE TO THE STRUCTURE OR INJURY TO ITS OCCUPANTS, REPORT ANY SUCH CONDITION IMMEDIATELY TO THE DESIGN TEAM. TAKE PRECAUTIONS TO PROPERLY SUPPORT THE STRUCTURE.
- HAZARDOUS MATERIALS - CONTRACTOR SHALL IMMEDIATELY REPORT THE DISCOVERY OF ANY HAZARDOUS MATERIALS TO THE DESIGN TEAM.
- SITE USAGE - USE OF THE SITE FOR ANY CONSTRUCTION STAGING OR OTHER OPERATIONS SHALL BE COORDINATED WITH THE DESIGN TEAM & OWNER. TAKE CARE NOT TO BLOCK OR ADVERSELY AFFECT ANY PUBLIC OR ADJACENT OWNER AREAS.
- EXIT ACCESS - MAINTAIN FREE, SAFE, AND APPROVED MEANS OF EGRESS IN AND OUT OF PROJECT LOCATION IN ACCORDANCE WITH REQUIREMENTS OF APPLICABLE REGULATORY AGENCIES.

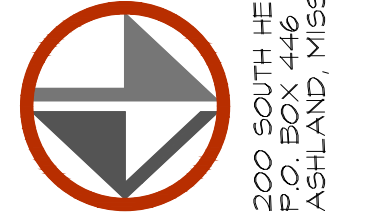


EXPIRATION DATE 12-31-22
JAY D. BERENDZEN, ARCHITECT

The Professional Architects seal affixed to this sheet applies only to the materials and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan, drawings or documents not exhibiting this seal.

MISSOURI ARC-000588
EXP. 12/31/21

PORTER, BERENDZEN & ASSOCIATES, P.C.
ARCHITECTS
200 SOUTH HENRY CLAY BLVD.
PO BOX 446
ASHLAND, MISSOURI 65010
573.657.2022 PHONE
jaye@pba-architecture.com



DO NOT SCALE THIS DRAWING. SOME DEVIATION FROM SCALE MAY OCCUR FROM REPRODUCTION. DRAWINGS ARE THE PROPERTY OF PORTER, BERENDZEN & ASSOCIATES, P.C. AND MAY NOT BE COPIED OR USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF PORTER, BERENDZEN & ASSOCIATES, P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

ISSUE		
ID	DESCRIPTION	DATE
1	Permit Set	06/1/2021

PROJECT NO.
pba-2108

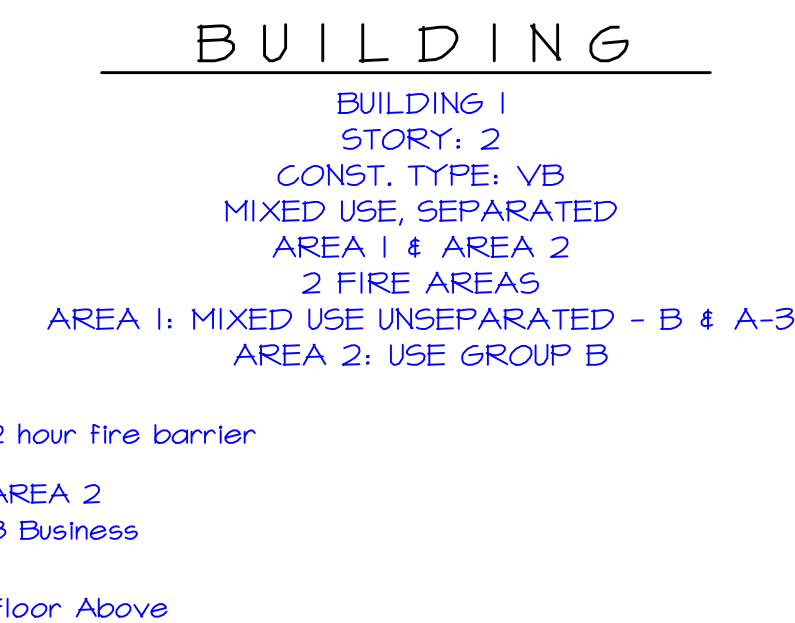
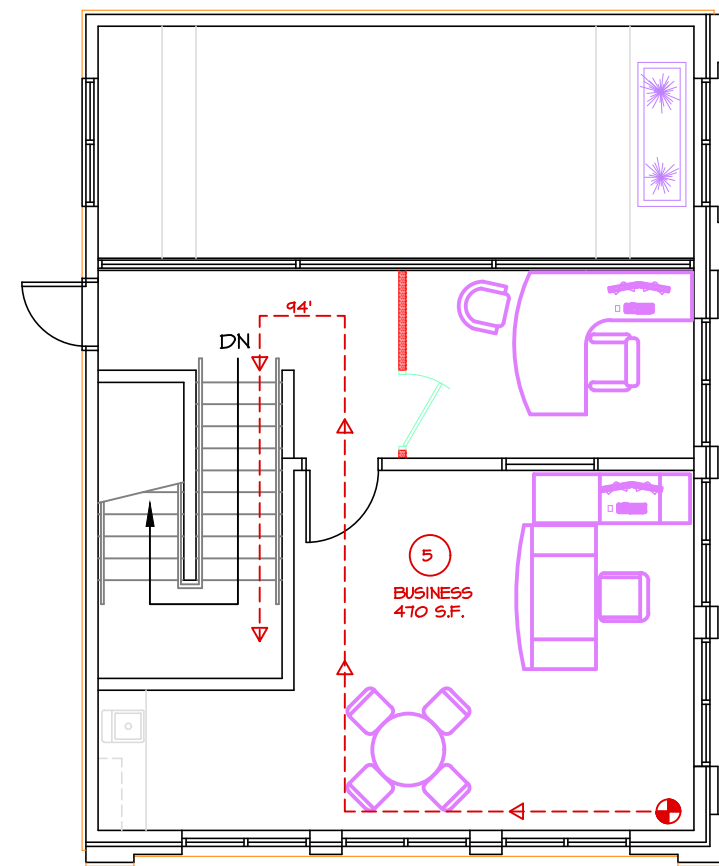
PROJECT DATE
JUNE 2021

SHEET TITLE

COVER SHEET

SHEET NUMBER

G001



CODE ANALYSIS SUMMARY - CITY HALL ASHLAND, MISSOURI				
CODE DATA				JOB NO. 2108
BUILDING CODE	2012 INTERNATIONAL BUILDING CODE			PROJECT DESCRIPTION:
EXISTING BUILDING CODE	2012 INTERNATIONAL EXISTING BUILDING CODE			EXISTING BUILDING - CITY HALL (New Tenant)
PLUMBING CODE	2012 INTERNATIONAL PLUMBING CODE			ORIGINALLY CONSTRUCTED UNDER BOCA 1996
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE			
ELECTRICAL CODE	2012 NATIONAL ELECTRIC CODE			
FIRE CODE	2012 INTERNATIONAL FIRE CODE			
ENERGY CONSERVATION CODE	2012 INTERNATIONAL ENERGY CONSERVATION CODE			
ACCESSIBILITY CODE	ICC/ANSI A117.1 - 2011			
BUILDING AREA	BUILDING 1	1ST - exist.	2nd - exist.	TOTAL
		4,310 S.F.	650 S.F.	4,960 S.F. (1st floor + 2nd floor)
USE GROUP(S) B BUSINESS	Building analysis based on MIXED USE, SEPARATED AREA 1 is separated from Area 2 via 2 hour fire barrier. AREA 1 is use group B / AREA 2 is mixed use (B 3 A-3) Non-Separated			Chapter 3 503.0
FIRE SUPPRESSION SYSTEM	Assembly Area Thresholds: NOT REQ'D - fire areas < 12,000 s.f. and occupancy load < 300			903.0
FIRE ALARM SYSTEM	Assembly Area Thresholds: NOT REQ'D - occupancy load < 300			901.2.1 901.2.2 901.9
PORTABLE FIRE EXTINGUISHERS	STANDARD FOR PORTABLE FIRE EXTINGUISHERS - NFPA 10 Class A Light Hazard - Min. 2-A rated extinguisher Max. 3500' s.f. per unit of A up to 11,250 s.f. per extinguisher Max. 15' travel distance			906.1
CONSTRUCTION TYPE	VB		VB	
	AREA 1	AREA 2		602.0
USE GROUP(S) - (Per Floor)	A-3 / B	B		
TABULAR AREA LIMITATION	6,000 S.F.	9,000 S.F.		503.1
AREA INCREASE (FRONTAGE)	3/400 S.F. (65%)	5/850 S.F. (65%)		506.2
AREA INCREASE (SPRINKLER)	NONE	NONE		506.3
AREA DETERMINATION	0 S.F. (0%)	0 S.F. (0%)		506.4
BLDG. AREA (ACTUAL/ALLOW)	8,160 S.F. / 9,400 S.F.	910 S.F. / 14,850 S.F.		
RATIO - ACTUAL/ALLOW	0.88	0.06		
SUM OF THE RATIOS (unity formula)	0.94			
TABULAR HEIGHT LIMITATION	1 STORY 40'	2 STORY 40'		503.1
HEIGHT INCREASE (SPR.)	NONE	NONE		504.2
BLDG. HGT. ACTUAL/ALLOW	1 STY. 15' / 1 STY. 40'	2 STY. 25' / 2 STY. 40'		
TRAVEL LENGTH (MAX)				1016.1
DEAD END CORRIDOR	20' MAX. OR 25:1 RATIO (width:length)			1018.4
OCCUPANT LOAD	Mixed Use Building			1004
				1004.1.1
business - 100 gross assembly - 15 net assembly - 1 net	Assembly 1200 s.f. / (1200 s.f.) 1200 s.f. / 2 s.f. (net)	= 170 occs.		2 Required 1004.1.4
	Business - PD (2500 s.f.) Main Floor: 2500 s.f. / 100 (gross) Mezzanine: 514 s.f. / 100 (gross)	= 25 occs. = 6 occs.		1 Required
TOTAL OCCUPANT LOAD	Total Occupant Load = 283 occupants			

PLUMBING FIXTURE REQUIREMENTS per 2012 IPC, TABLE 403.1											
ENTIRE BUILDING	OCCUPANCY	WATER CLOSETS				LAVATORIES			DF RATIO	DRINKING FOUNTAINS	SERVICE SINK
	ROOM AND USE	LOAD	RATIO	MALE	FEMALE	RATIO	MALE	FEMALE			
	BUSINESS (north) (B)	40	1:25 / 1:50	0.80	0.80	1:40 / 1:80	0.50	0.50	1:100	0.40	1 REQ'D
	ASSEMBLY (north)(A-3)	100	1:125 / 1:63	0.80	0.78	1:200	0.25	0.25	1:500	0.20	1 REQ'D
	BUSINESS (south) (B)	62	1:25 / 1:50	1.24	1.24	1:40 / 1:80	0.78	0.78	1:100	0.62	1 REQ'D
	REQUIRED TOTALS by ratio			2.44	2.82		1.53	1.53		1.22	1 REQ'D
	TOTAL PROVIDED			3+	3+		3	3		2	1
* NOTE: FOR BUSINESS OCCUPANCY, WATER CLOSETS: 1 PER 25 FOR THE FIRST 50 OCCUPANTS AND 1 PER 50 FOR THE REMAINDER OF OCCUPANTS EXCEEDING 50. LAVATORIES: 1 PER 40 FOR THE FIRST 80 OCCUPANTS AND 1 PER 80 FOR THE REMAINDER OF OCCUPANTS EXCEEDING 80. * NOTE: FOR ASSEMBLY (A-3) OCCUPANCY, WATER CLOSETS: 1 PER 125 FOR MALE / 1 PER 63 FOR FEMALE LAVATORIES: 1 PER 200 FOR MALE / 1 PER 100 FOR FEMALE											

OCCUPANT LOAD/EGRESS LEGEND		
SYMBOL	DESCRIPTION	REMARKS
	EXIT ACCESS TRAVEL DISTANCE LENGTH / DIRECTION OF EGRESS	TRAVEL DISTANCE & ASSUMED PATH
	EXIT ACCESS TRAVEL DISTANCE POINT OF BEGINNING	TRAVEL DISTANCE MOST REMOTE POINT
	OCCUPANT LOAD	BASED ON ROOM OCCUPANCY
	AREA WITH COMMON EGRESS TOTAL OCCUPANT LOAD	BASED ON ROOMS COMMON EGRESS
	BUILDING/FIRE AREA TOTAL OCCUPANT LOAD	BASED ON BUILDING FIRE AREA LOADS
	ACTUAL OCCUPANT LOAD ALLOWABLE OCCUPANT LOAD	DOOR EGRESS
	ACTUAL OCCUPANT LOAD ALLOWABLE OCCUPANT LOAD	CORRIDOR EGRESS
	ACTUAL OCCUPANT LOAD ALLOWABLE OCCUPANT LOAD	STAIR EGRESS
	FIRE EXTINGUISHER IN CABINET LOCATIONS SHOWN ON PLAN AND MARKED "FE". SEE PROJECT MANUAL INSTALL W/ TOP OF CABINET @ +5'-0"	
EGRESS WIDTH BASED ON: IBC Table 1004.5 0.3 inches per occupant for stairways / 0.2 inches for all other components (Sprinklered Building) LOADS BASED ON: Main Use Group B business - 100 gross assembly - 15 net assembly - 7 net		



MISSOURI ARC-000588



**PORTER, BERENDZEN
& ASSOCIATES, P.C.**

A R C H I T E C T S

200 SOUTH HENRY CLAY BLVD. 5TH FLOOR PHONE
P.O. BOX 446
ASHLAND, MISSOURI 65010
jay@pba-architecture.com

PROJECT _____

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

ISSUE		
ID	DESCRIPTION	DATE
1	Permit Set	6/1/2021

PROJECT NO.
pba-2108

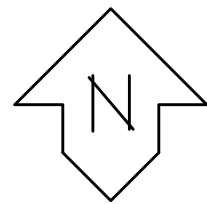
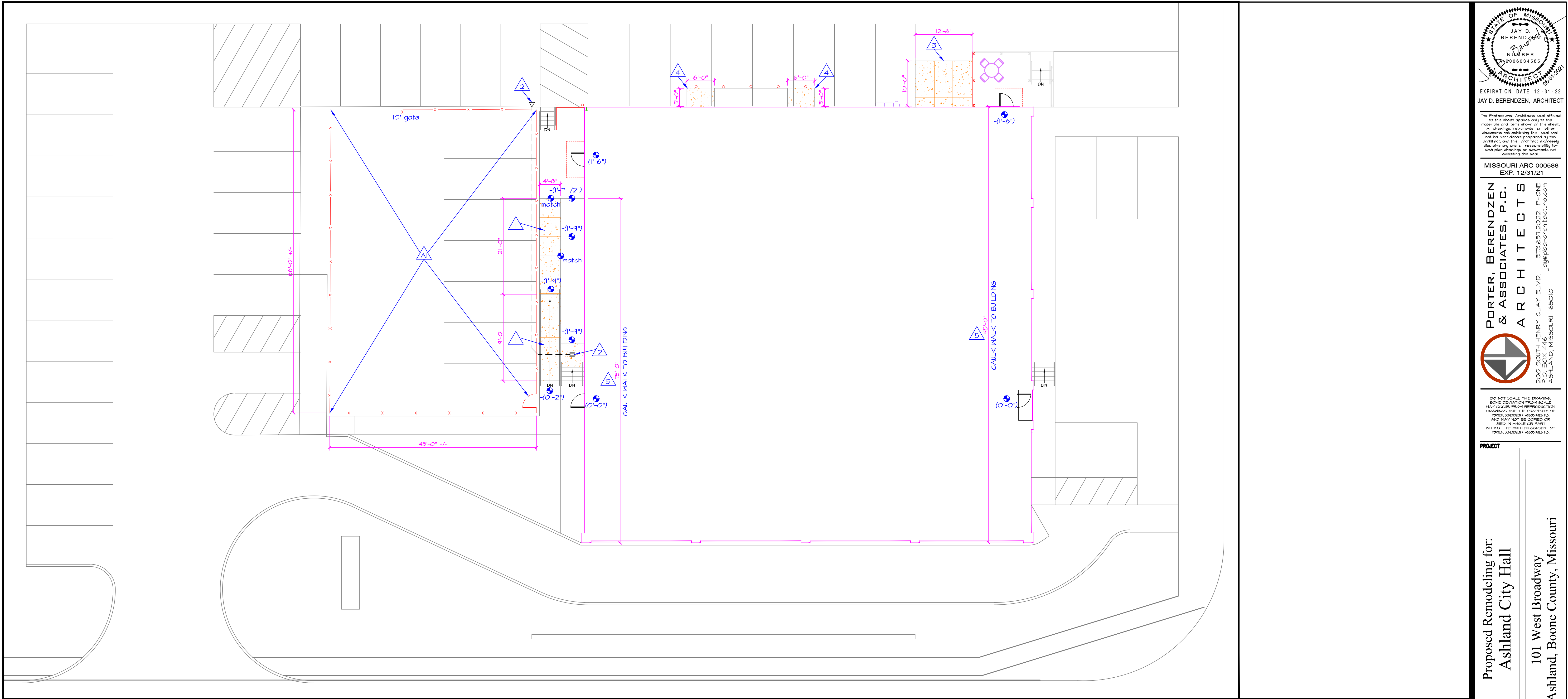
PROJECT DATE
JUNE 2021

SHEET TITLE

CODE PLAN

SHEET NUMBER

G201



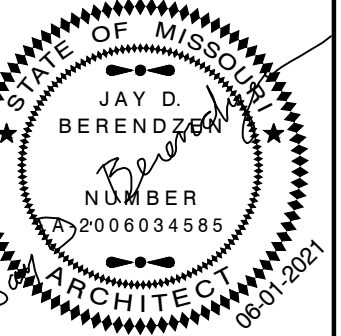
SITE PLAN

SCALE: 1" = 10'-0"

NOTES

NOTES - ARCHITECTURAL SITE PLAN

- NEW WALKS AND PAVING LAYOUT SHOWN ON THIS PLAN. SEE THIS PLAN FOR SAVED JOINTS (SINGLE LINE DASHED) AND EXPANSION JOINTS (DOUBLE LINE & LABELED E.J.). EXPANSION JOINTS ALSO TO BE PROVIDED WHERE WALKS AND DRIVE PAVING ABUTS BUILDING CONCRETE.
- INSTALL NEW EXTERIOR CONCRETE WALK, RAMP AND HANDRAILS. SEE DETAILS ON SITE PLAN, SHEET A201. INSTALL NEW 12" NYLOPLAST INLINE GRATE DRAIN AT BASE OF EXISTING STAIR - DISCHARGE AT NORTH END OF SECURE PARKING AREA. DRAIN LINE TO BE 4" PVC.
- GENERATOR PAD - LOCATE AT BACK (NORTH) SIDE OF BUILDING. SEE PLAN, THIS SHEET FOR LOCATION AND SIZE. ACTUAL SIZE TO BE ADJUSTED AS REQUIRED TO ACCOMMODATE UNIT AND CLEARANCES. PAD TO BE 5" THICK CONCRETE W/ #4 REBAR @ 12" O.C.
- CONDENSER PAD - LOCATE AT BACK (NORTH) SIDE OF BUILDING. SEE PLAN, THIS SHEET FOR LOCATION AND SIZE. ACTUAL SIZE TO BE ADJUSTED AS REQUIRED TO ACCOMMODATE UNITS AND CLEARANCES. PAD TO BE 4" THICK CONCRETE W/ #4 REBAR @ 12" O.C.
- EXISTING CONCRETE WALK ADJACENT TO BUILDING - CAULK $\frac{1}{2}$ " GAP AT WALK TO WALL WITH SELF LEVELING CAULK. INSTALL BACKER ROD AS NECESSARY. APPROXIMATELY 170 L.F. REQUIRED.
- ALTERNATE NO. 1 - CREATE NEW SECURE PARKING AREA. REMOVE 8" OF SOIL AND INSTALL 3" THICK LAYER OF 1" MINUS ROCK OVER 5" OF 2" BASE ROCK. PROOF ROLL FOR COMPACTION. NEW FINISHED GRADE TO GENERALLY FOLLOW EXISTING GRADES SURROUNDING THE AREA. AREA IS ROUGHLY 48' X 68' = 3,264 S.F. INSTALL NEW FENCE - SEE DETAILS ON SITE PLAN. RUN POWER/DATA IN CONDUIT TO GATE LOCATIONS - SEE MEP PLANS.
EXTERIOR FENCING (PROVIDE UNDER ALTERNATE NO. 1).
PRIVACY FENCING - PROVIDE AND INSTALL 6' HIGH CHAIN LINK PRIVACY FENCE SYSTEM AROUND PERIMETER OF SECURE PARKING AREA. POSTS TO BE GENERALLY 6'-0" O.C. (OR AS RECOMMENDED BY MANUFACTURER). SET POSTS IN MIN. 6" DIAMETER PIERS. FENCE TO BE A MINIMUM OF 72" HIGH WITH TOP BOTTOM AND MID RAIL. FABRIC IS TO BE VINYL COATED AND INCLUDE PRIVACY SLATS. PROVIDE (1) 3' WIDE WALK-THRU GATE WITH LOCKABLE LATCH. PROVIDE (1) 10' WIDE HORIZONTAL SLIDE LOCKABLE GATE. APPROXIMATELY 260 LINEAR FEET OF FENCE - SEE PLAN THIS SHEET.
NOTE THAT GRADE IS SLOPING FROM SOUTH TO NORTH APPROXIMATELY 30'.



JAY D. BERENDZEN, ARCHITECT

The Professional Architects seal affixed to this sheet applies only to the materials and items shown on this sheet. All drawings, instruments, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan drawings or documents not exhibiting this seal.

MISSOURI ARC-000588
EXP. 12/31/21

**PORTER, BERENDZEN
& ASSOCIATES, P.C.
ARCHITECTS**
200 SOUTH HENRY CLAY BLVD. SUITE 200
P.O. BOX 446
ASHLAND, MISSOURI 65010
573.657.2023
jag@pbaarchitects.com

DO NOT SCALE THIS DRAWING.
SOME DEVIATION FROM SCALE
MAY OCCUR FROM REPRODUCTION.
DRAWINGS ARE THE PROPERTY OF
PORTER, BERENDZEN & ASSOCIATES P.C.
AND MAY NOT BE COPIED OR
USED IN WHOLE OR PART
WITHOUT THE WRITTEN CONSENT OF
PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

ISSUE

ID	DESCRIPTION	DATE
1	Permit Set	06/01/2021

PROJECT NO.

pba-2108

PROJECT DATE

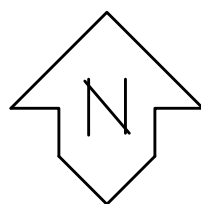
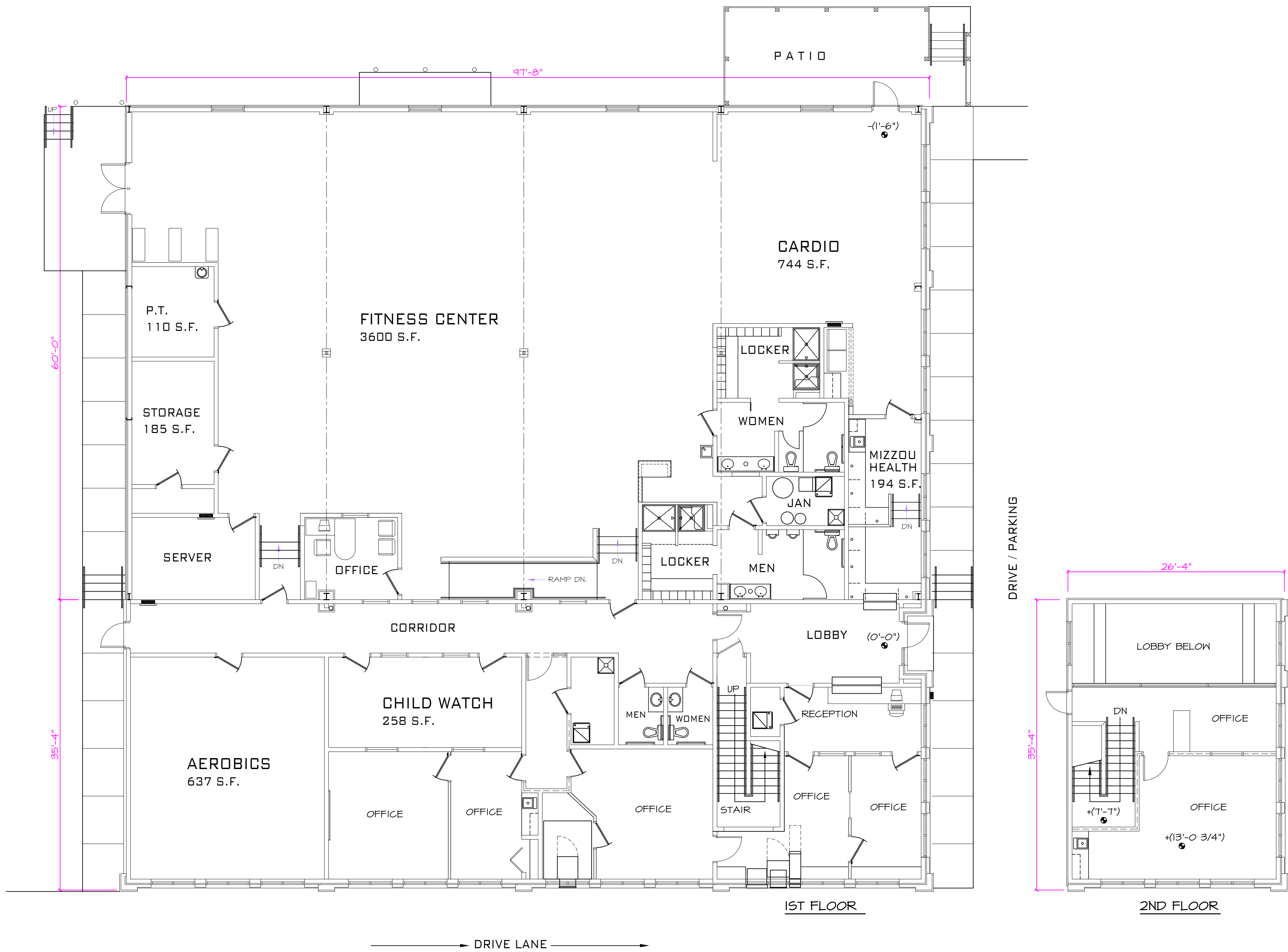
JUNE 2021

SHEET TITLE

SITE PLAN

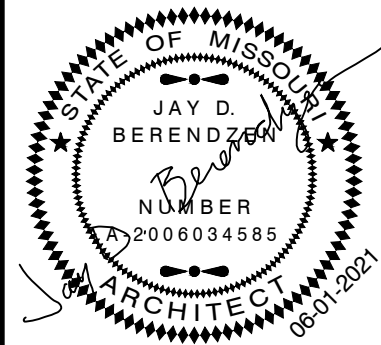
SHEET NUMBER

A100



FLOOR PLAN - EXISTING

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



The Professional Architects seal affixed to this sheet applies only to the materials and items shown on this sheet. All drawings, documents, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan drawings or documents not exhibiting this seal.

MISSOURI ARC-000588
EXP. 12/31/21

PORTER, BERENDZEN
& ASSOCIATES, P.C.
ARCHITECTS

200 SOUTH HENRY CLAY BLVD. SUITE 400
P.O. BOX 446
ASHLAND, MISSOURI 65010

573.657.2023
jag@pbaarchitects.com

DO NOT SCALE THIS DRAWING. SOME DEVIATION FROM SCALE MAY OCCUR FROM REPRODUCTION. DRAWINGS ARE THE PROPERTY OF PORTER, BERENDZEN & ASSOCIATES P.C. AND MAY NOT BE COPIED OR USED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall

101 West Broadway
Ashland, Boone County, Missouri

ISSUE		
ID	DESCRIPTION	DATE
1	Permit Set	06/01/2021

PROJECT NO.
pba-2108

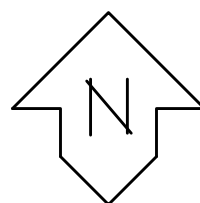
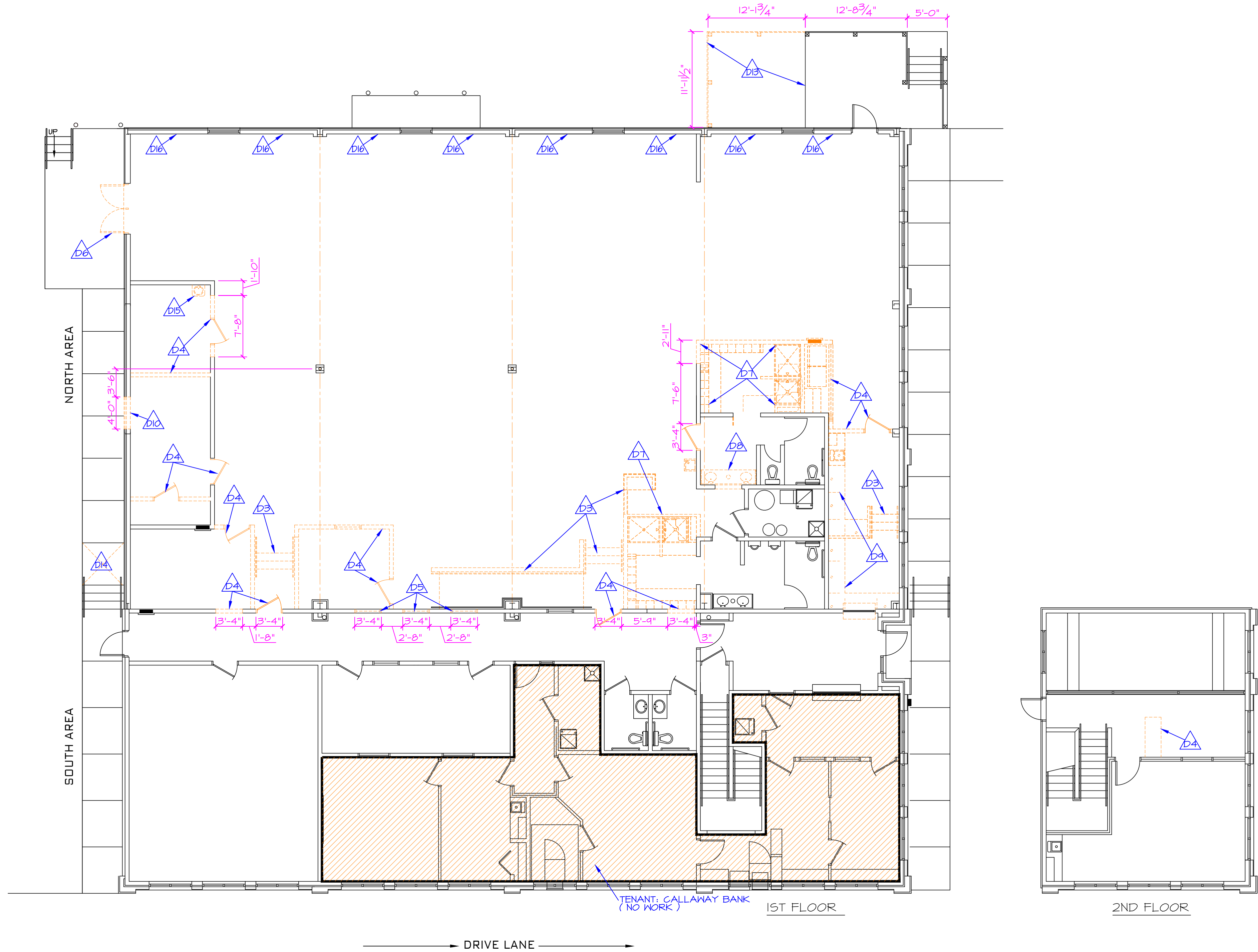
PROJECT DATE
JUNE 2021

SHEET TITLE

FLOOR PLAN
EXISTING

SHEET NUMBER

A101



FLOOR PLAN - DEMO

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

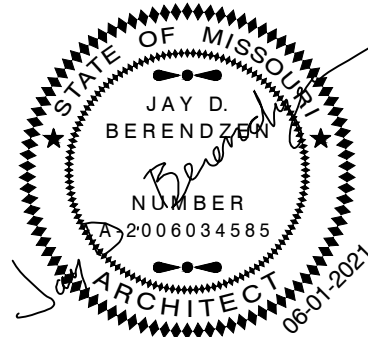
NOTES

GENERAL NOTES - DEMOLITION PLANS

- D1** THE DEMOLITION CONSISTS OF DEMOLITION OF THE INTERIOR WALLS, CEILINGS, FLOORING, CASEWORK, POWER, LIGHTING, HVAC, PLUMBING, ETC. AS NOTED. THE FOLLOWING NOTES ADDRESS SPECIFIC ITEMS THAT ARE TO BE REMOVED OR REMAIN IN PLACE.
HAZARDOUS MATERIALS - TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO ASBESTOS CONTAINING MATERIALS IN THE BUILDING. IF ANY MATERIALS ARE ENCOUNTERED DURING DEMOLITION THAT THE CONTRACTOR SUSPECTS COULD CONTAIN ASBESTOS, THE CONTRACTOR IS TO STOP WORK IMMEDIATELY AND IS TO CONTACT THE OWNER/ARCHITECT. ANY REQUIRED ABATEMENT WILL BE THE RESPONSIBILITY OF THE OWNER AND IS TO BE REMOVED BY AN APPROVED ABATEMENT SPECIALIST CONFORMING TO ALL STATE AND FEDERAL REGULATIONS.
SEE THE DEMOLITION PLAN ON THIS SHEET AND THE NOTES BELOW FOR FURTHER DETAIL.
- D2** THE MAJORITY OF WORK IS LIMITED TO THE AREA TO THE NORTH OF THE MAIN EAST-WEST RUNNING CORRIDOR. WORK IN THE E-W CORRIDOR AND THE AREA TO THE SOUTH IS LIMITED. THE CALLAWAY BANK IS CURRENTLY OCCUPYING THE AREAS HATCHED ON THE PLAN. THEY WILL REMAIN IN SERVICE DURING CONSTRUCTION AND WILL NEED TO BE ACCOMMODATED.
NORTH AREA - REMOVE ALL FLOORING (EXCEPT CERAMIC TILE IN RESTROOMS) AND CEILING GRID (EXCEPT IN RESTROOMS). SEE MEP PLANS FOR REQUIRED DEMOLITION OF PLUMBING, HVAC, AND ELECTRICAL SYSTEMS.
SEE DOOR SCHEDULE AND ROOM FINISH SCHEDULE FOR WORK REQUIRED IN THESE AREAS.
- D3** REMOVE EXISTING INTERIOR STAIRS AND RAMP (WOOD FRAME) TO ALLOW FOR NEW LAYOUT. THE EXISTING HANDRAILS MAY BE RE-USED IF PRACTICAL.
- D4** REMOVE EXISTING WALLS, DOORS, CEILINGS, ETC. TO ALLOW FOR NEW LAYOUT. SEE DETAILS FOR WALL CONSTRUCTION. NOTE THAT SOME DOORS' FRAMES WILL BE RE-USED IN NEW LOCATIONS. SEE SCHEDULES. SEE STRUCTURAL PLANS.
- D5** REMOVE EXISTING WINDOWS TO ALLOW FOR NEW LAYOUT. NOTE THAT SOME WINDOWS WILL BE RE-USED IN NEW LOCATIONS. SEE SCHEDULES.
- D6** REMOVE EXISTING STEEL EXTERIOR PAIR OF DOORS AND FRAME TO ALLOW FOR INSTALLATION OF NEW DOOR AND FRAME.
- D7** REMOVE EXISTING LOCKER AND SHOWER AREAS. NOTE THAT LOCKERS ARE TO BE RE-USED IN THE SQUAD ROOM. TURN OVER ANY EXTRA UNITS TO THE OWNER.
- D8** REMOVE EXISTING LAVATORY COUNTER AND TURN OVER TO OWNER. NEW COUNTER TO BE INSTALLED. SEE PROPOSED FLOOR PLAN FOR NEW LOCATION.
- D9** REMOVE EXISTING WORK COUNTERS AND SINK. SEE PROPOSED FLOOR PLAN FOR NEW LAYOUT.
- D10** REMOVE SECTION OF WALL TO ALLOW FOR NEW WINDOW IN CHIEFS' OFFICE. NOTE THAT THERE IS A CABLE BRACE IN CLOSE PROXIMITY. SEE EXTERIOR ELEVATIONS.
- D11** SEE CIVIL AND MEP SHEETS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- D12** ALSO SEE ROOF PLAN AND ARCHITECTURAL SITE PLAN FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- D13** EXTERIOR WOOD FRAMED DECK - REMOVE PORTION OF DECK TO ALLOW SPACE FOR NEW GENERATOR. RE-FRAME AND RE-BUILD PER DRAWINGS - SEE ELEVATIONS. SEE DRAWINGS FOR ADDITIONAL INFORMATION.
- D14** REMOVE SECTION OF SIDEWALK AT BASE OF EXTERIOR STAIR TO ALLOW FOR DRAIN. SEE FLOOR PLAN AND SITE PLAN.
- D15** REMOVE EXISTING WALL HUNG LAVATORY. TO BE RE-USED IN NEW LOCATION. SEE MEP PLANS.
- D16** REMOVE DRYWALL FROM EXISTING NORTH EXTERIOR WALL TO PROVIDE ACCESS FOR NEW ELECTRICAL/DATA/ETC. INSTALL NEW 5/8" DRYWALL, FINISH & PAINT.
- D17** EXTERIOR SIDEWALKS AND PAVING - SEE ARCHITECTURAL SITE PLAN FOR AREAS REQUIRING WORK.

DEMOLITION LEGEND

DRAWING	DESCRIPTION
	EXISTING (MATERIAL TO REMAIN)
	EXISTING (MATERIALS TO BE REMOVED)



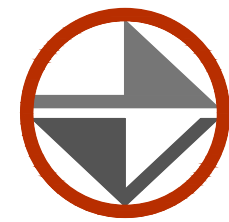
JAY D. BERENDZEN, ARCHITECT

The Professional Architects seal affixed to this sheet applies only to the materials and items shown on this sheet. All drawings, documents, or other documents not existing this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan drawings or documents not existing this seal.

MISSOURI ARC-000588

EXP. 12/31/21

PORTER, BERENDZEN & ASSOCIATES, P.C.
ARCHITECTS
200 SOUTH HENRY CLAY BLVD., SUITE 200
P.O. BOX 446
ASHLAND, MISSOURI 65010
573.687.2023
jaye@pbaarchitects.com



DO NOT SCALE THIS DRAWING. SOME DEVIATION FROM SCALE MAY OCCUR FROM REPRODUCTION. DRAWINGS ARE THE PROPERTY OF PORTER, BERENDZEN & ASSOCIATES P.C. AND MAY NOT BE COPIED OR USED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

ISSUE

ID	DESCRIPTION	DATE
1	Permit Set	06/01/2021

PROJECT NO.

pba-2108

PROJECT DATE

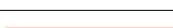
JUNE 2021

SHEET TITLE

FLOOR PLAN
DEMOLITION

SHEET NUMBER

A102

DRAWING	DESCRIPTION
	CONCRETE
	CONCRETE MASONRY UNIT
	STUD WALL
	HALF HIGH WALL
	MASONRY - BRICK/STONE
	FIRE BARRIER / PARTITION SEE WALL TYPE DETAILS
	BULKHEAD / HEADER - SEE FLOOR PLAN
	FLOOR FINISH TRANSITION
	RECESSED FIRE EXTINGUISHER CABINET
	FUTURE WALLS / LAYOUT

ALL WALLS TO EXTEND TO BOTTOM OF ROOF TRUSS/FLOOR STRUCTURE
UNLESS NOTED OTHERWISE.

GENERAL NOTES - DEMOLITION PLANS

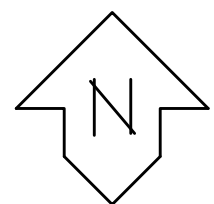
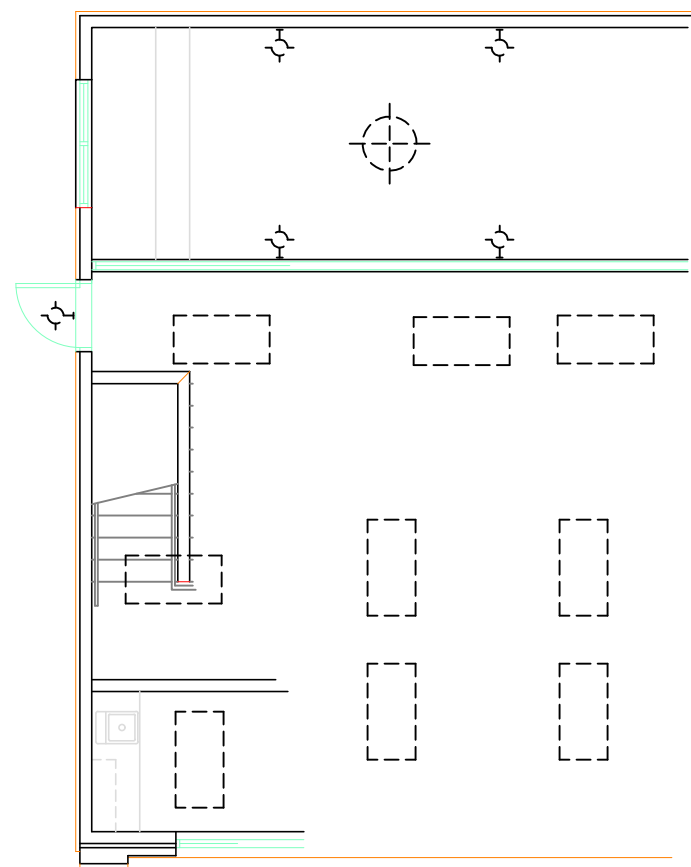
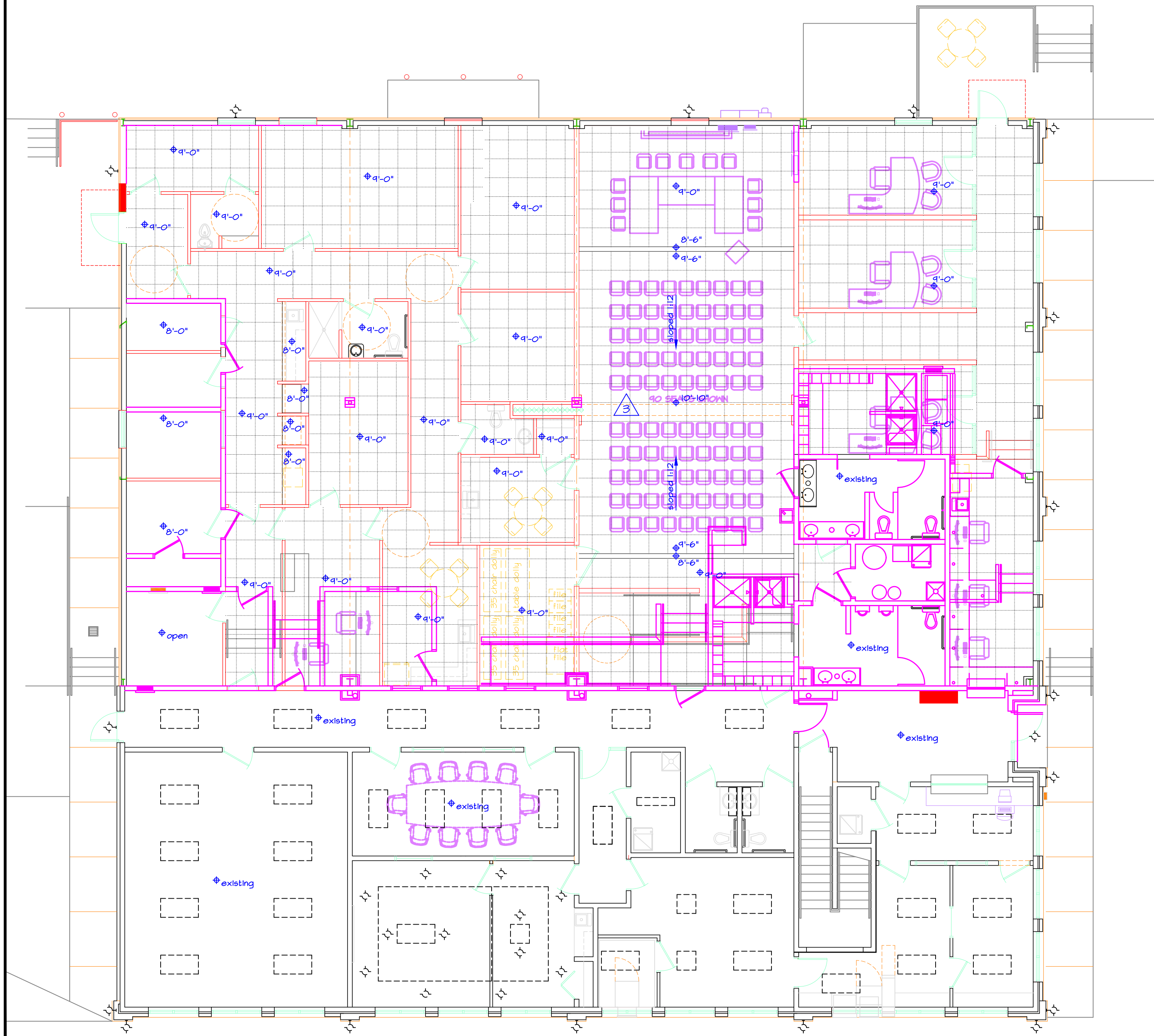
-
- Floor plan of the lobby below, showing dimensions and room layouts. The plan includes a central hallway (202) with a staircase (DN) and a rest area (201). To the right are two offices (200 and 201) with desks and chairs. The overall dimensions are 24'-10" wide by 11'-8" deep. Specific dimensions include 13'-0" for the staircase area, 12'-0" for the office area, 7'-11" for the rest area, 8'-2" for the central area, and 16'-8" for the office area. The plan also shows a door (N) and a window (W).



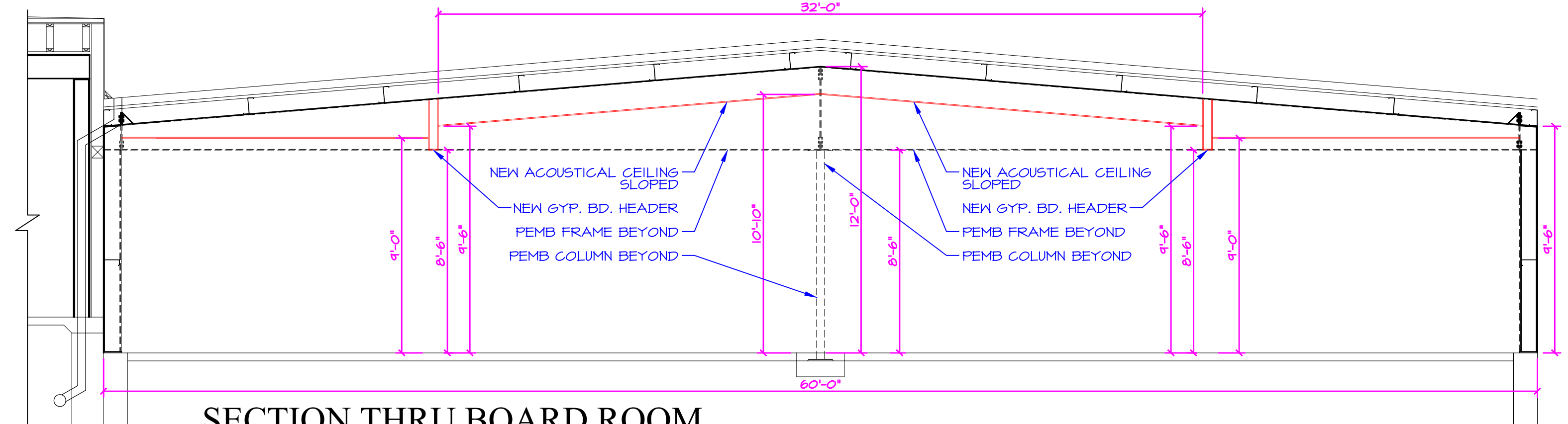
A103

FLOOR PLAN - REMODEL

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



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



SECTION THRU BOARD ROOM
SCALE: 1/4" = 1'-0"

NOTES

NOTES - REFLECTED CEILING PLANS

1

CEILINGS - NEW CEILINGS TO BE 2'x2' ACOUSTICAL GRID AND TILE. SEE REFLECTED CEILING PLAN, THIS SHEET FOR GENERAL LAYOUT. ALSO SEE MEP PLANS.

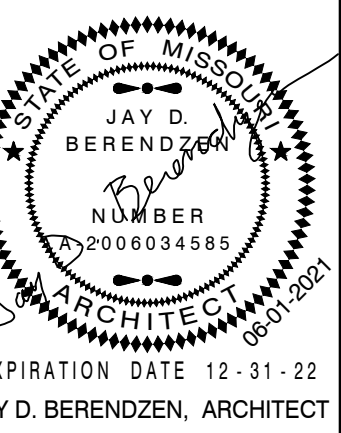
2

INTERIOR SOFFITS/HEADERS - FRAME WITH STUD AND GYP. BD. SEE INTERIOR ELEVATIONS FOR SIZES AND HEIGHTS. BOTTOM AS NOTED ON REFLECTED CEILING PLAN, THIS SHEET. ALSO SEE MEP PLANS.

3

CEILINGS - NEW CEILINGS IN BOARD ROOM TO BE 2'x2' ACOUSTICAL GRID AND TEGULAR TILE. SEE REFLECTED CEILING PLAN, THIS SHEET FOR GENERAL LAYOUT. ALSO SEE MEP PLANS.

CEILING SCHEDULE	
DRAWING	DESCRIPTION
	SOFFIT / HEADER SEE PLAN FOR DISTANCE TO BOTTOM
	ACOUSTICAL CEILING SEE FINISH SCHEDULE
	PAINTED GYPSUM CEILING SEE FINISH SCHEDULE
	EXTERIOR METAL SOFFIT SEE FINISH SCHEDULE
9'-0"	CEILING HEIGHT INDICATION ABOVE FINISHED FLOOR
SEE FINISH SCHEDULES FOR CEILING HEIGHTS	
SEE ELECTRICAL PLANS FOR COMPLETE FIXTURE INFORMATION	



MISSOURI ARC-000588
EXP. 12/31/21

PORTER, BERENDZEN
& ASSOCIATES, P.C.
ARCHITECTS
200 SOUTHERN CLAY BLVD. SUITE 200
P.O. BOX 446
ASHLAND, MISSOURI 65010
573.657.2023
jag@pbaarchitects.com

DO NOT SCALE THIS DRAWING.
SOME DEVIATION FROM SCALE
MAY OCCUR FROM REPRODUCTION.
DRAWINGS ARE THE PROPERTY OF
PORTER, BERENDZEN & ASSOCIATES P.C.
AND MAY NOT BE COPIED OR
USED IN WHOLE OR PART
WITHOUT THE WRITTEN CONSENT OF
PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

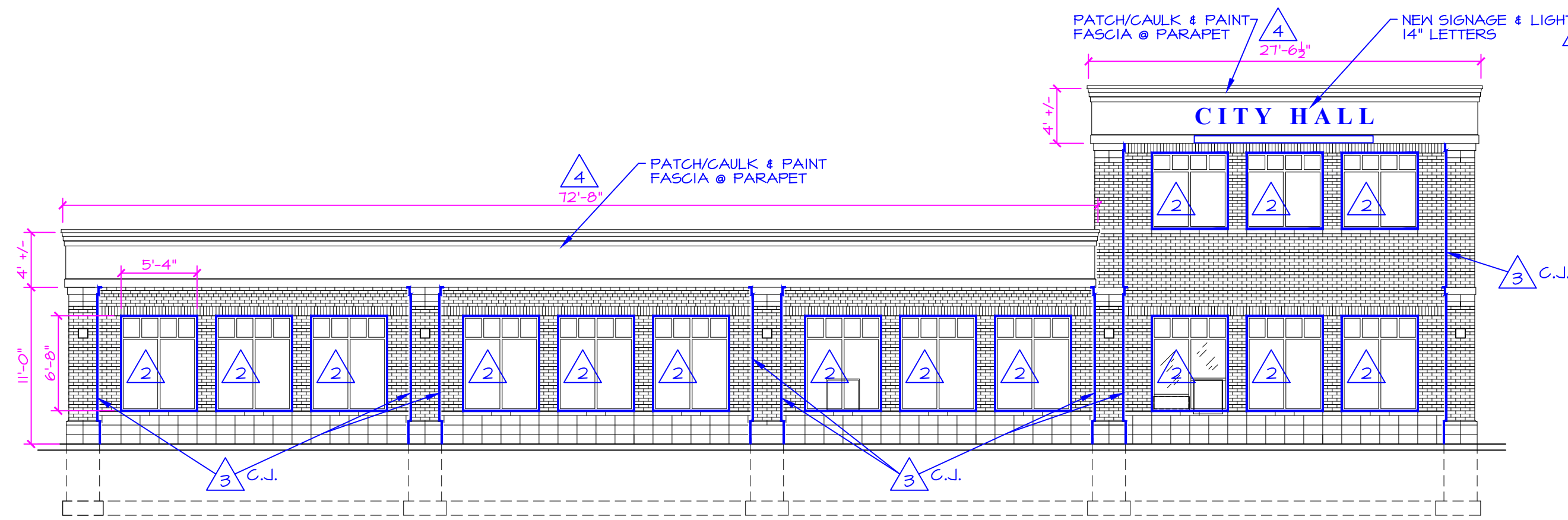
ID	DESCRIPTION	DATE
1	Permit Set	06/01/2021

PROJECT NO.
pba-2108
PROJECT DATE
JUNE 2021
SHEET TITLE

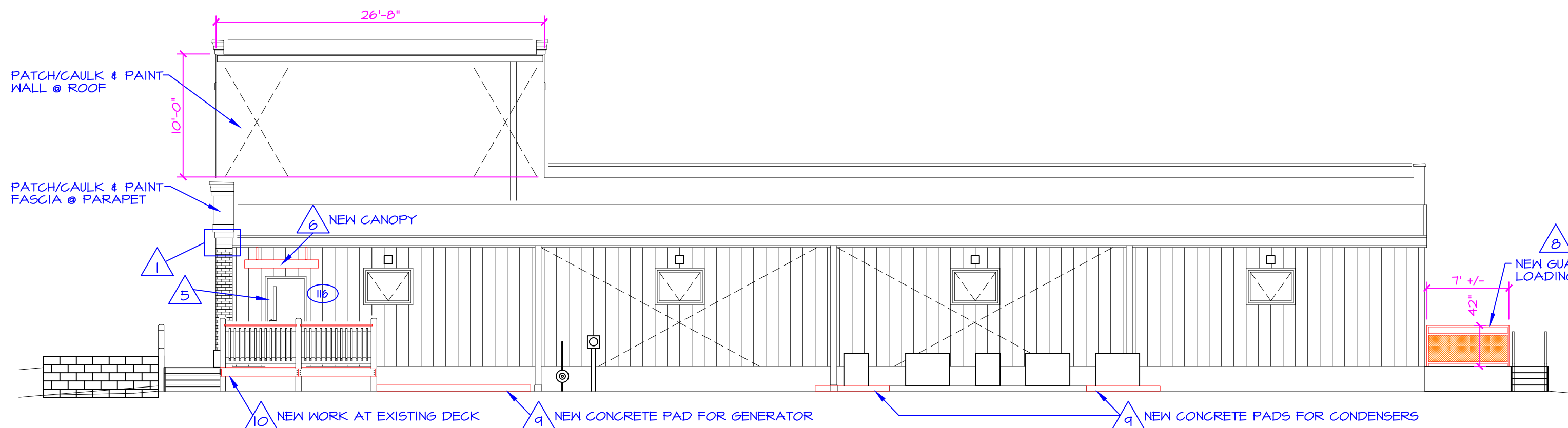
REFLECTED
CEILING PLAN

SHEET NUMBER

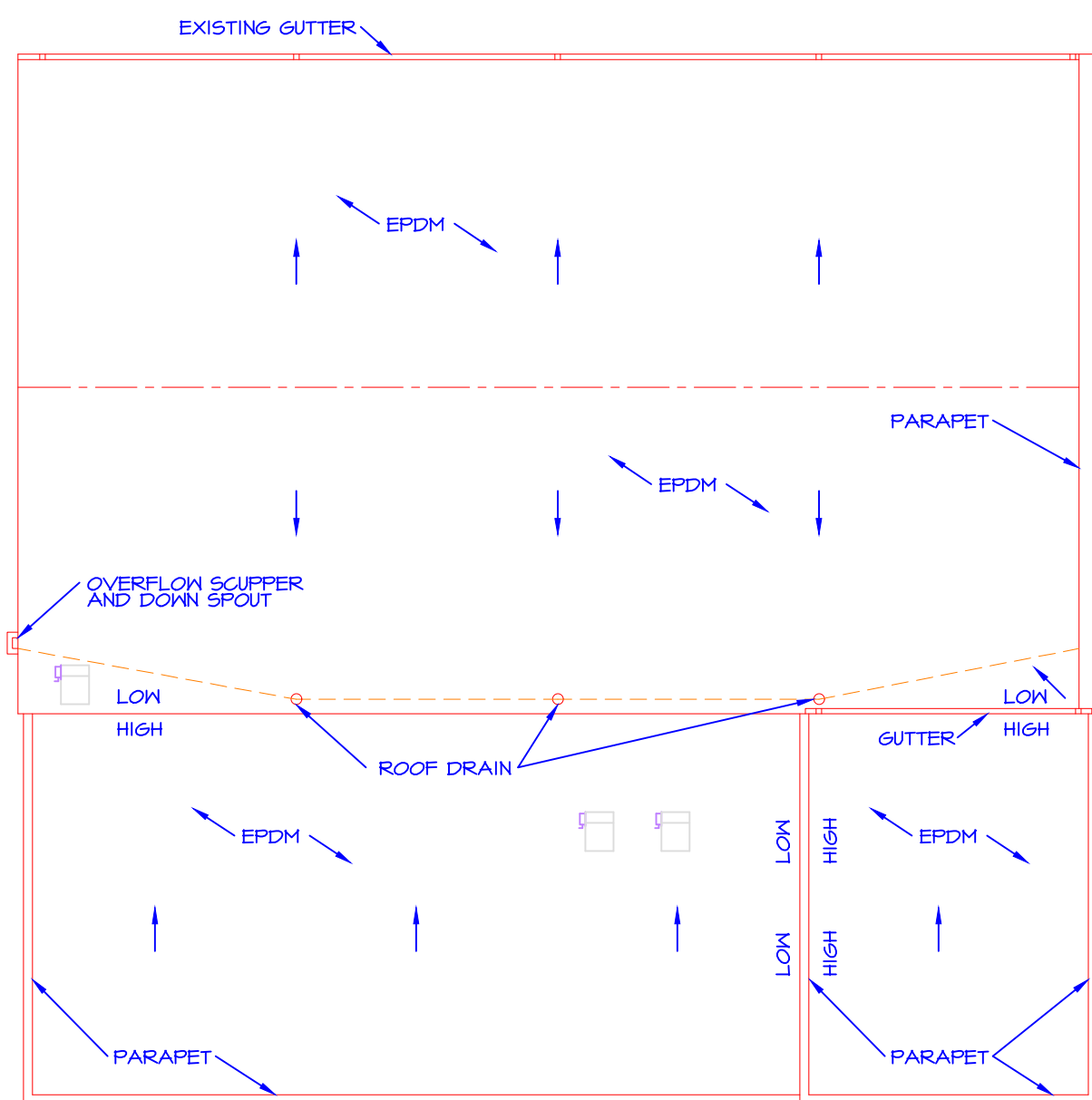
A104



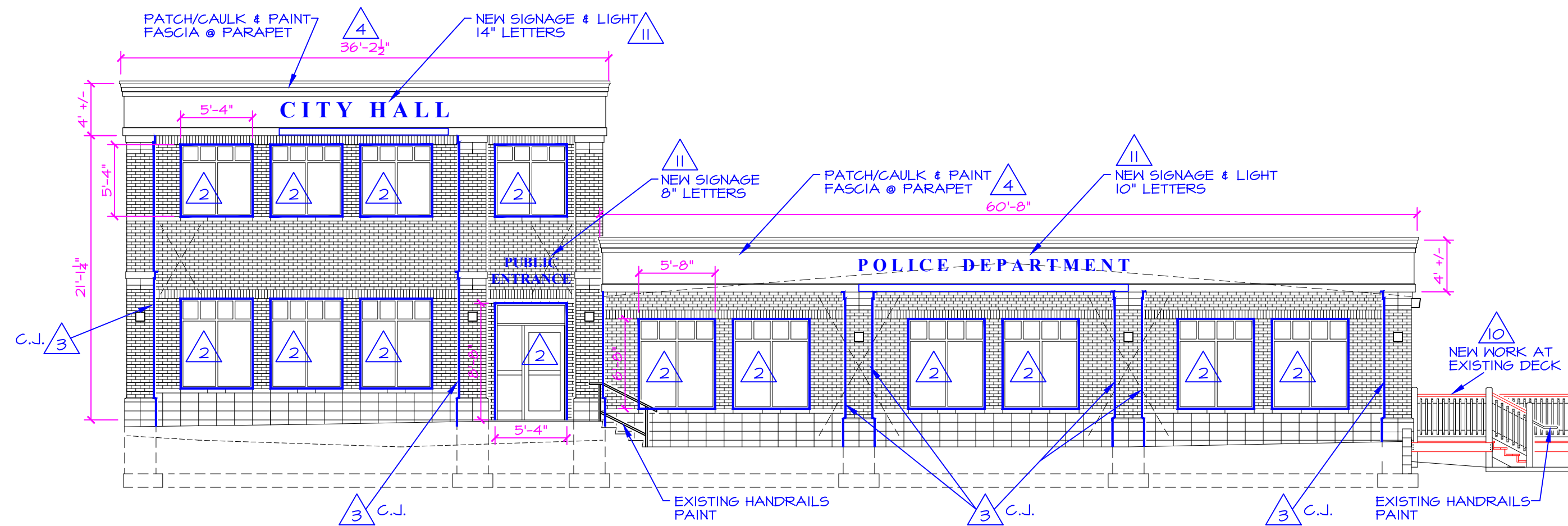
1 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



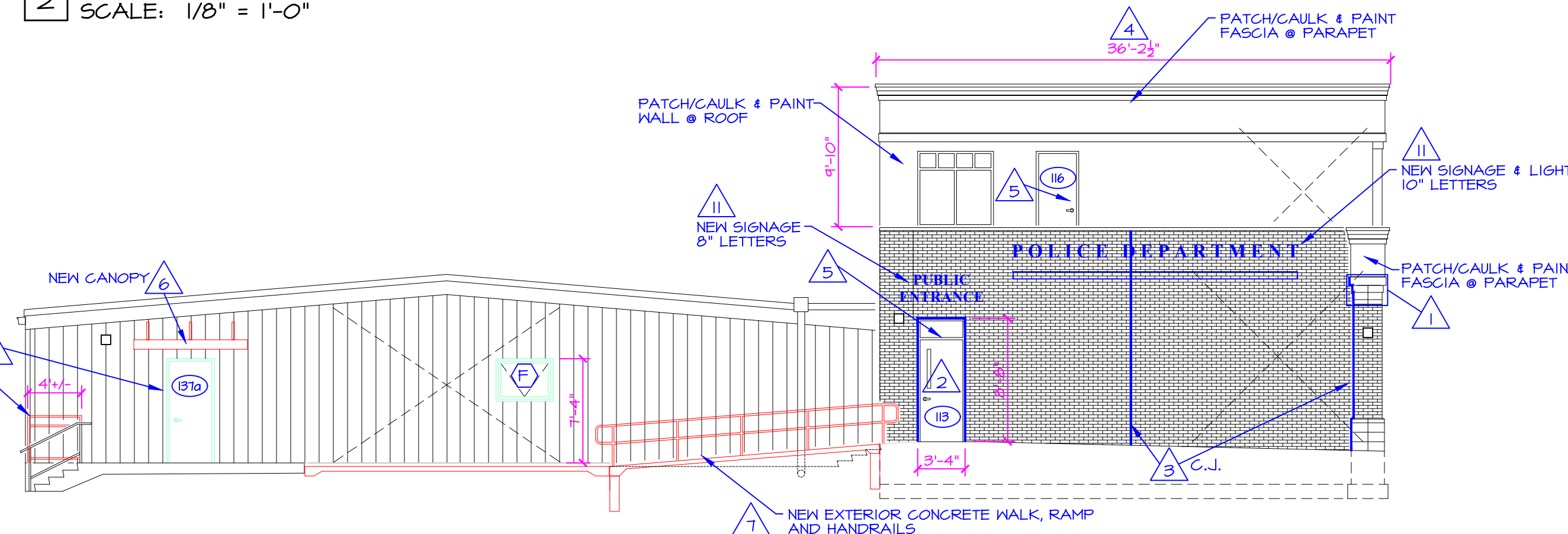
3 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



ROOF PLAN
SCALE: 1/16" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"

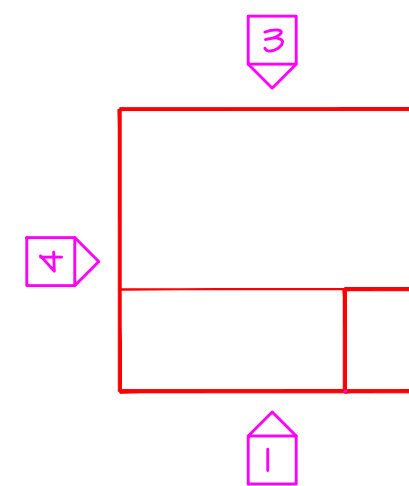


4 WEST ELEVATION
SCALE: 1/8" = 1'-0"

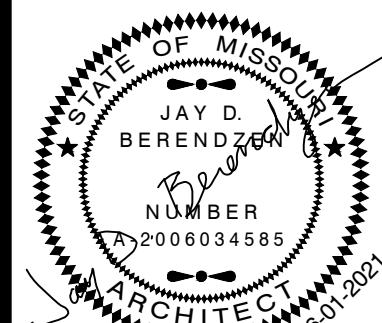
NOTES

GENERAL NOTES - ELEVATIONS

- EXISTING BRICK/STONE VENEER - ASSUME 50 S.F. OF TUCK POINTING REQUIRED - SOME AREAS SHOWN ON ELEVATIONS. EVALUATE PRIOR TO WORK BEING STARTED.
- EXISTING ALUMINUM STOREFRONT OPENINGS - REMOVE ALL EXISTING CAULKING AT WINDOW PERIMETERS AND RE-CAULK. MATCH FRAME COLOR. ALSO CAULK HORIZONTAL FACE OF ALL STONE MORTAR JOINTS AT STONE WINDOW SILLS. REMOVE EXISTING CAULK/MORTAR AS REQUIRED. FOUR JOINTS AT EACH WINDOW. MATCH MORTAR COLOR.
- EXISTING MASONRY CONTROL JOINTS - REMOVE EXISTING CAULKING. INSTALL NEW BACKER ROD AND RE-CAULK ALL CONTROL JOINTS. CAULK TO MATCH MORTAR JOINT.
- EXISTING PARAPETS - PATCH AND CAULK ALL PARAPETS AND RE-PAINT. COLOR TO BE DETERMINED BY OWNER.
- EXTERIOR STEEL DOORS AND FRAMES - PAINT ALL NEW AND EXISTING METAL EXTERIOR DOORS AND FRAMES. PATCH, SAND AND PAINT EXISTING DOORS AND FRAMES. COLOR TO BE SELECTED BY OWNER.
- EXTERIOR CANOPIES - PRE-FAB OVERHEAD WALL SUPPORTED FLAT CANOPY. ADD SUPPORT IN EXISTING FRAMED WALL, AS NEEDED FOR CONNECTIONS. SEE DETAILS.
- NEW EXTERIOR WALK, RAMP AND STEEL HANDRAILS. SEE DETAILS ON SHEET A100. PROVIDE PAINTED STEEL HANDRAILS ON EACH SIDE OF RAMP. TIE RAIL INTO EXISTING RAILS AT STAIR. PAINT EXISTING STAIR RAILS AS WELL.
- NEW STEEL GUARD AT EXISTING LOADING DOCK. SEE DETAILS ON SHEET A100. PROVIDE PAINTED STEEL RAILS AND MESH OR BALUSTER INFILL. TIE NEW GUARD INTO EXISTING RAILS AT STAIR. PAINT EXISTING STAIR RAILS AS WELL.
- INSTALL NEW CONCRETE PAD FOR GENERATOR AND CONDENSERS. COORDINATE EXACT SIZE AND ROUGH IN REQUIREMENTS PRIOR TO POURING PAD.
- EXISTING DECK - REMOVE PORTION OF EXISTING DECK TO ALLOW FOR GENERATOR PAD. INSTALL NEW DECKING, RAILS, ETC. ON PORTION OF DECK THAT REMAINS. MAIN STRUCTURE OF DECK IS TO REMAIN. PAINT EXISTING HANDRAILS. SEE DETAILS FOR EXACT REQUIREMENTS.
- NEW BUILDING MOUNTED SIGNAGE - PROVIDE AND INSTALL NEW SIGNAGE AND LIGHTING AS SHOWN ON THE ELEVATIONS ON THIS SHEET. SEE MEP PLANS FOR NEW SIGN LIGHTING. SEE NOTES ON THIS SHEET FOR APPROXIMATE LETTER SIZE. EXACT SIZE, FONT AND COLOR TO BE DETERMINED BY OWNER.



KEY PLAN
NO SCALE

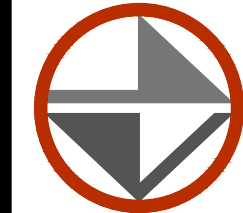


EXPIRATION DATE 12-31-22
JAY D. BERENDZEN, ARCHITECT

The Professional Architects seal affixed to this sheet applies only to the materials and items shown on this sheet. All drawings, reports, or other documents not exhibiting this seal shall not be considered prepared by this architect, and this architect expressly disclaims any and all responsibility for such plan drawings or documents not exhibiting this seal.

MISSOURI ARC-000588
EXP. 12/31/21

PORTER, BERENDZEN & ASSOCIATES, P.C.
ARCHITECTS
200 SOUTH HENRY CLAY BLVD., SUITE 100
P.O. BOX 446
ASHLAND, MISSOURI 65010
573.687.2025
info@pbaarchitects.com



DO NOT SCALE THIS DRAWING. SOME DEVIATION FROM SCALE MAY OCCUR FROM REPRODUCTION. DRAWINGS ARE THE PROPERTY OF PORTER, BERENDZEN & ASSOCIATES P.C. AND MAY NOT BE COPIED OR USED IN WHOLE OR PART WITHOUT THE WRITTEN CONSENT OF PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall

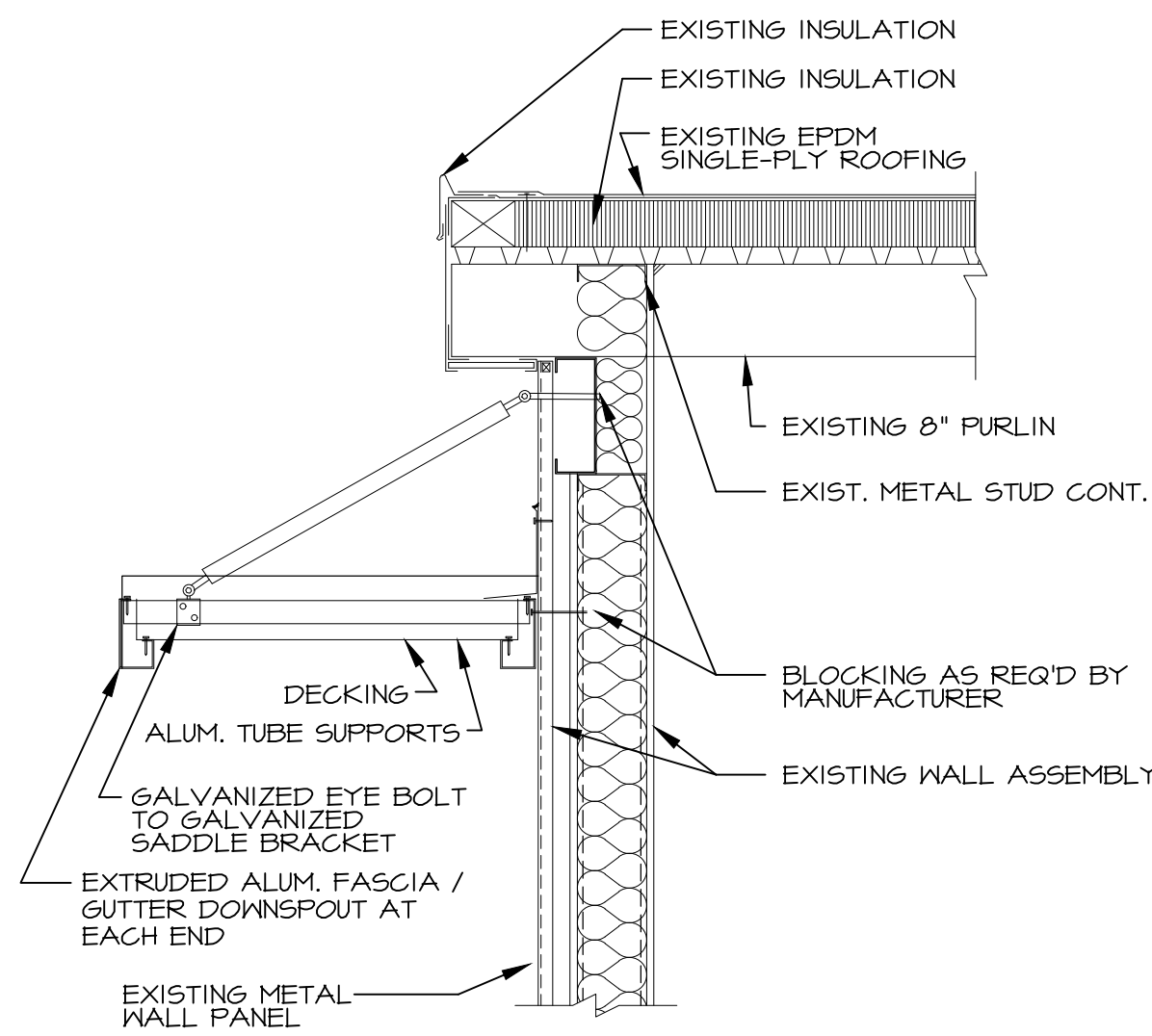
101 West Broadway
Ashland, Boone County, Missouri

ISSUE	ID	DESCRIPTION	DATE
	1	Permit Set	06/01/2021

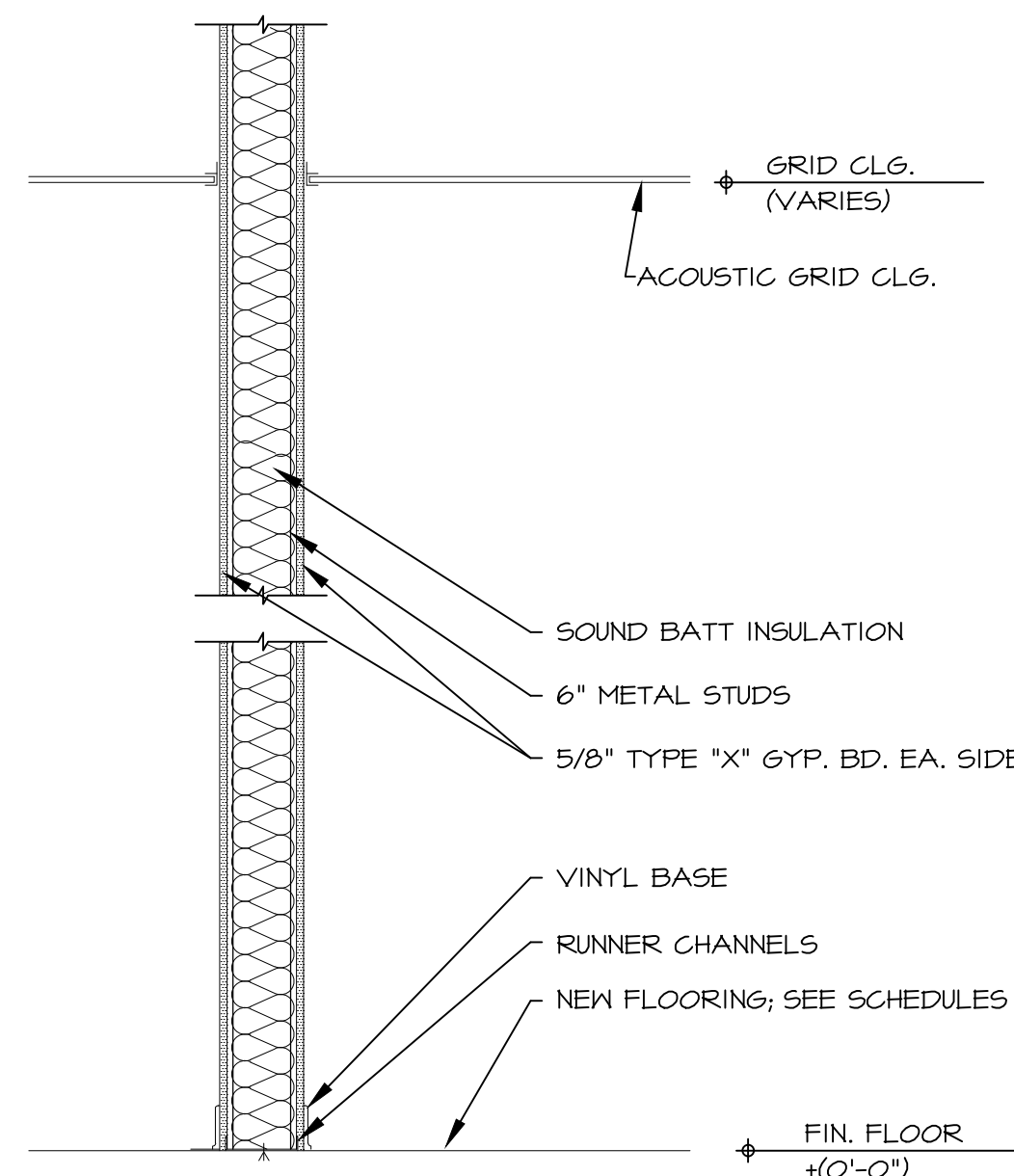
PROJECT NO.
pba-2108
PROJECT DATE
JUNE 2021
SHEET TITLE
EXTERIOR ELEVATIONS

SHEET NUMBER

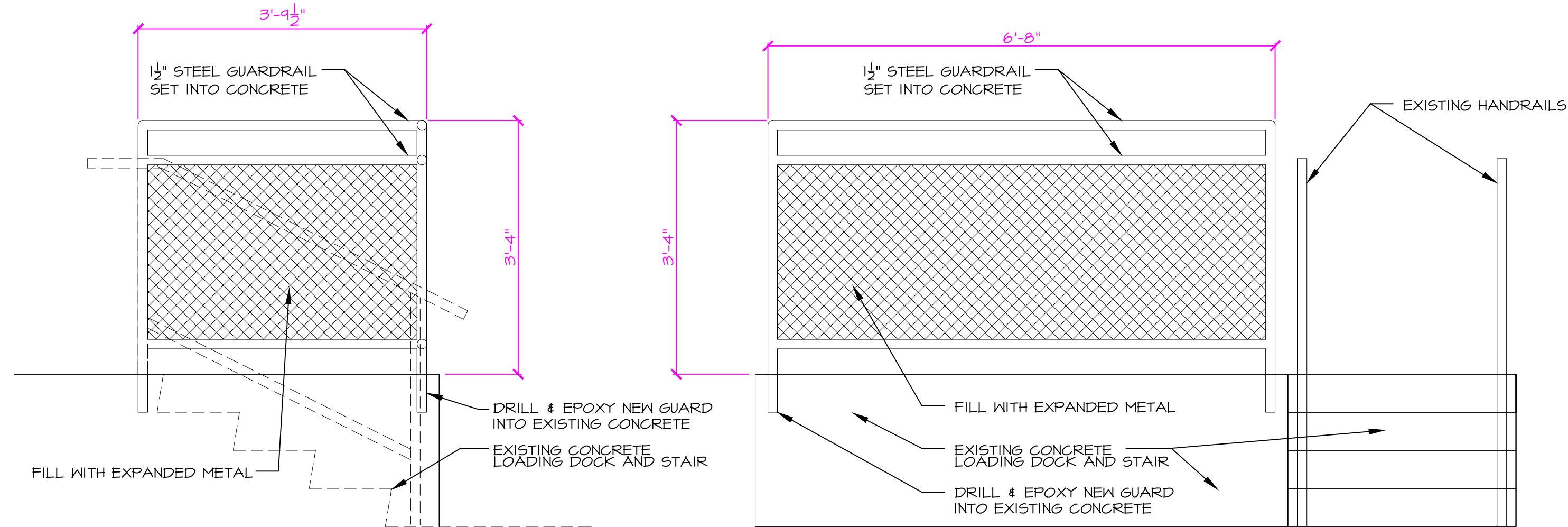
A201



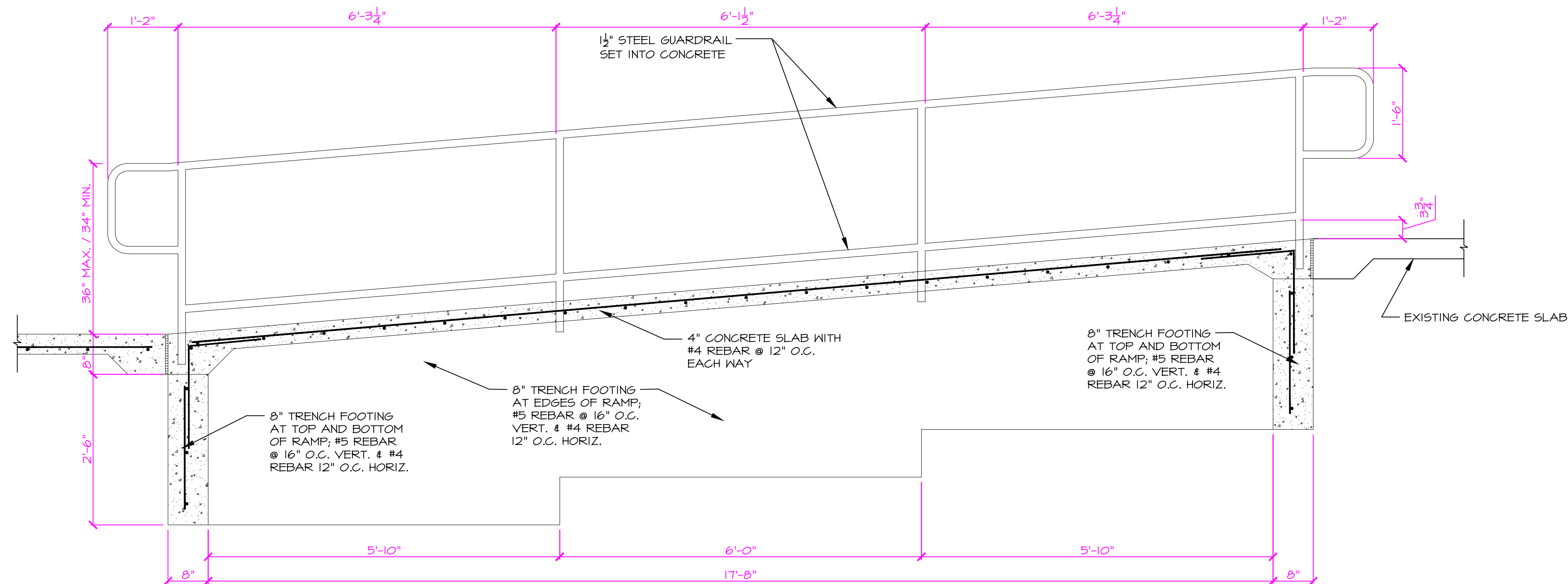
5 SECTION AT NEW CANOPY
A301 SCALE: 3/4" = 1'-0"



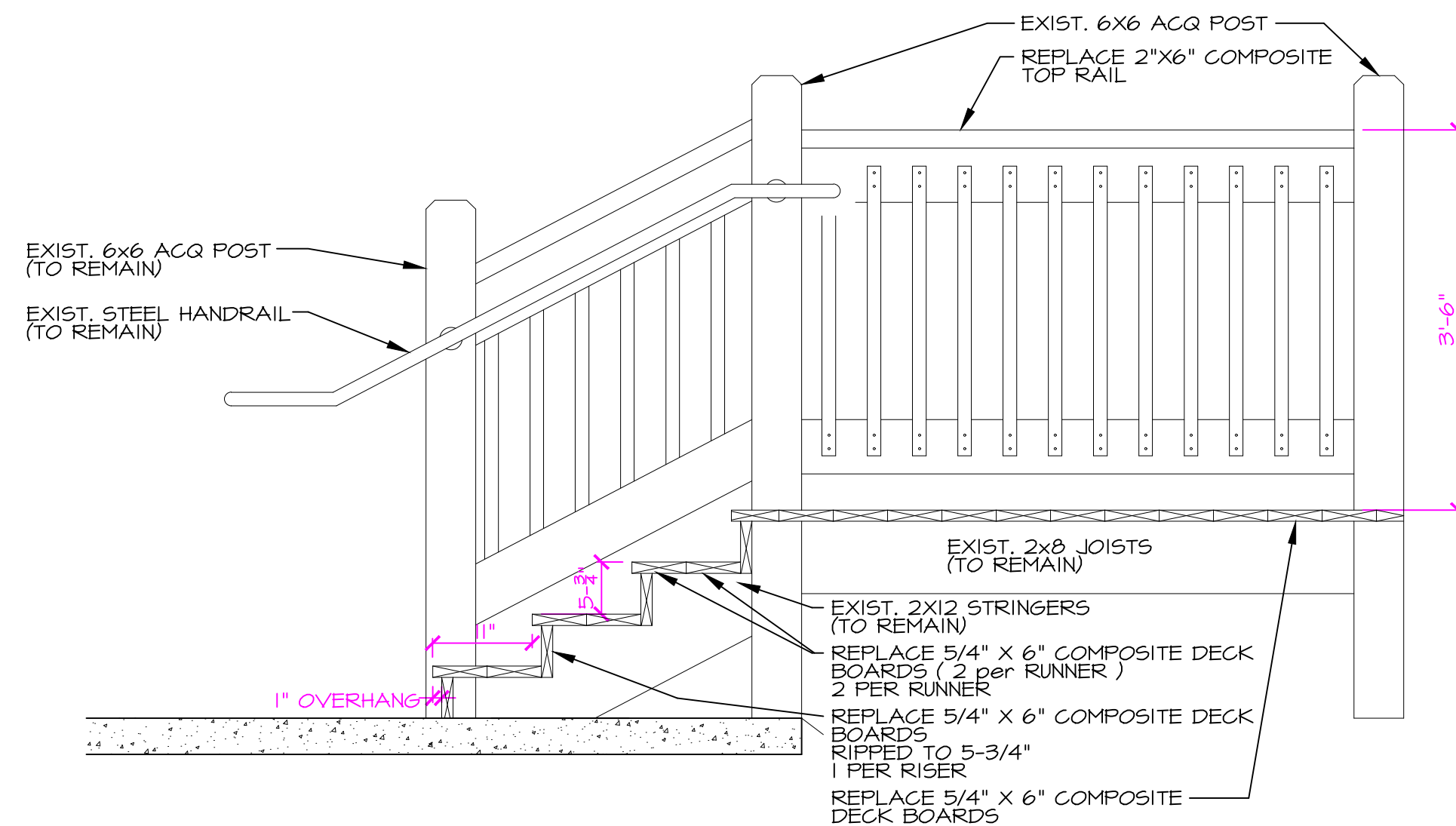
3 SECTION THRU INTERIOR WALL
A301 SCALE: 3/4" = 1'-0"



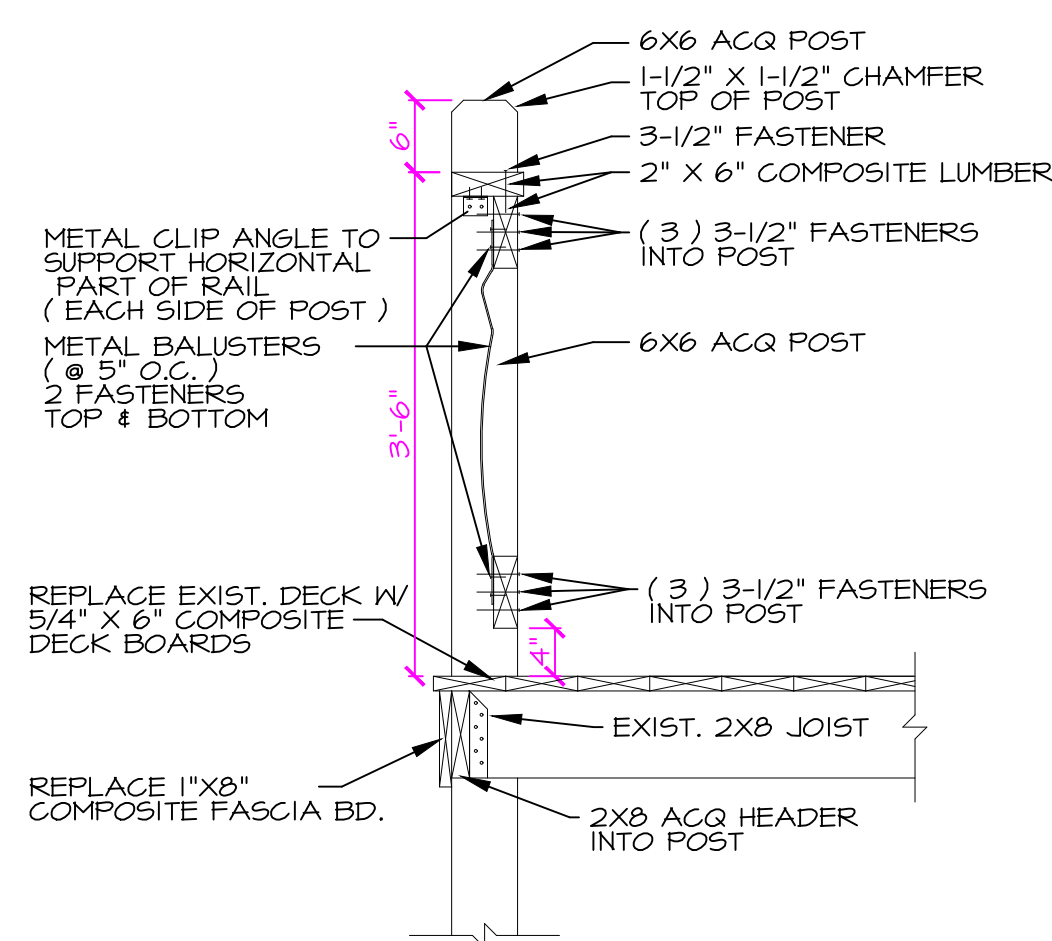
6 DETAIL AT NEW GUARD RAIL
A301 SCALE: 3/4" = 1'-0"



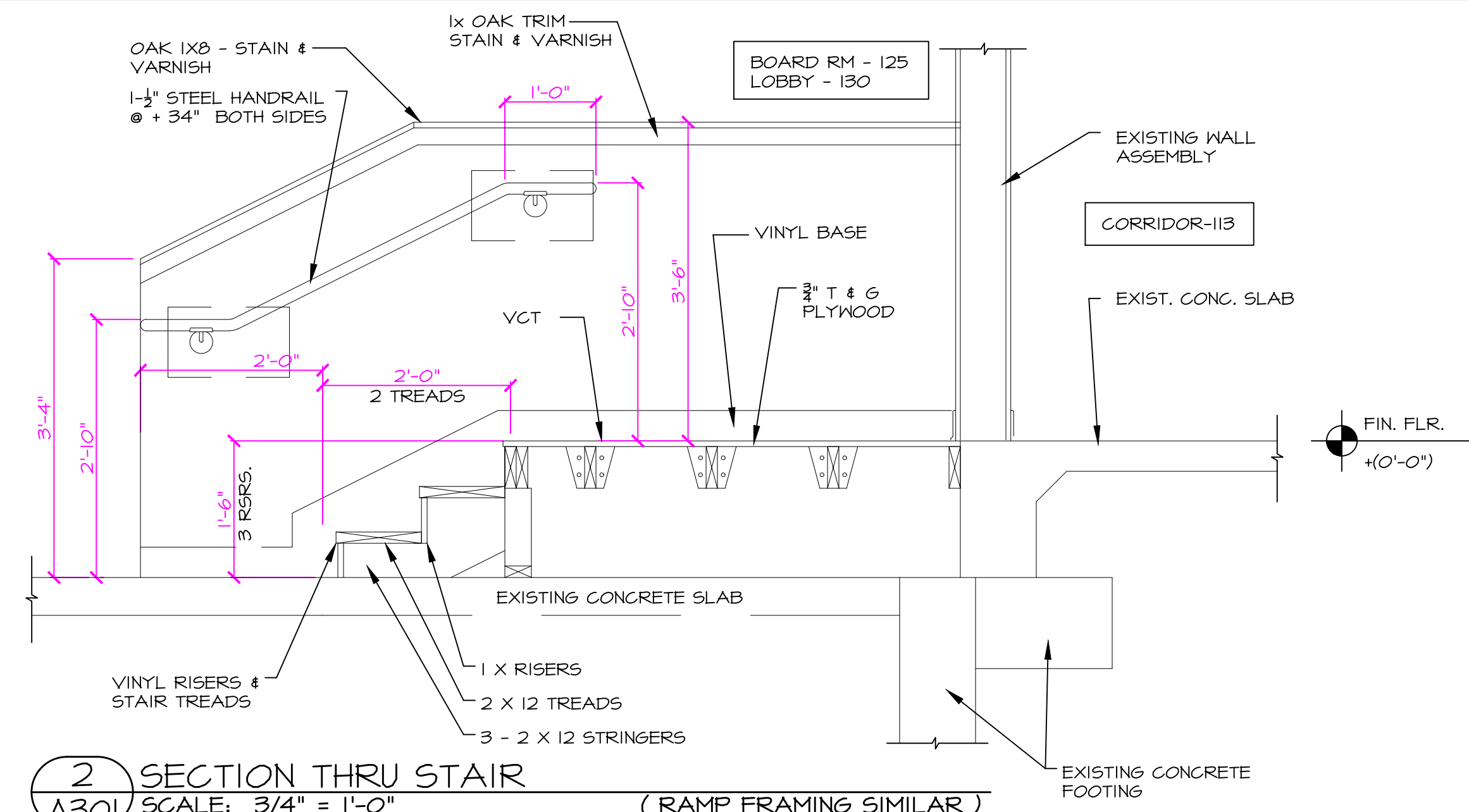
4 SECTION THRU EXTERIOR RAMP
A301 SCALE: 3/4" = 1'-0"



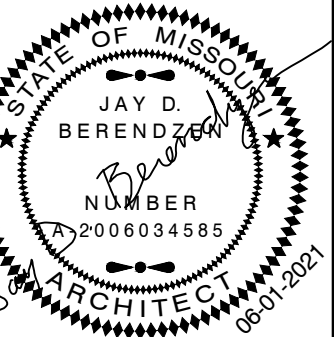
1 DECK STAIR DETAIL
A301 SCALE: 3/4" = 1'-0"



2 DECKING DETAIL
A301 SCALE: 3/4" = 1'-0"

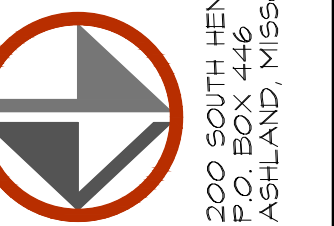


2 SECTION THRU STAIR
A301 SCALE: 3/4" = 1'-0" (RAMP FRAMING SIMILAR)



MISSOURI ARC-000588
EXP. 12/31/21

PORTER, BERENDZEN
& ASSOCIATES, P.C.
ARCHITECTS
200 SOUTH HENRY CLAY BLVD.
P.O. BOX 446
ASHLAND, MISSOURI 65010



DO NOT SCALE THIS DRAWING.
SOME DEVIATION FROM SCALE
MAY OCCUR FROM REPRODUCTION.
DRAWINGS ARE THE PROPERTY OF
PORTER, BERENDZEN & ASSOCIATES, P.C.
AND MAY NOT BE COPIED OR
USED IN WHOLE OR PART
WITHOUT THE WRITTEN CONSENT OF
PORTER, BERENDZEN & ASSOCIATES, P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

ISSUE	ID	DESCRIPTION	DATE
	1	Permit Set	06/01/2021

PROJECT NO.

pba-2108

PROJECT DATE

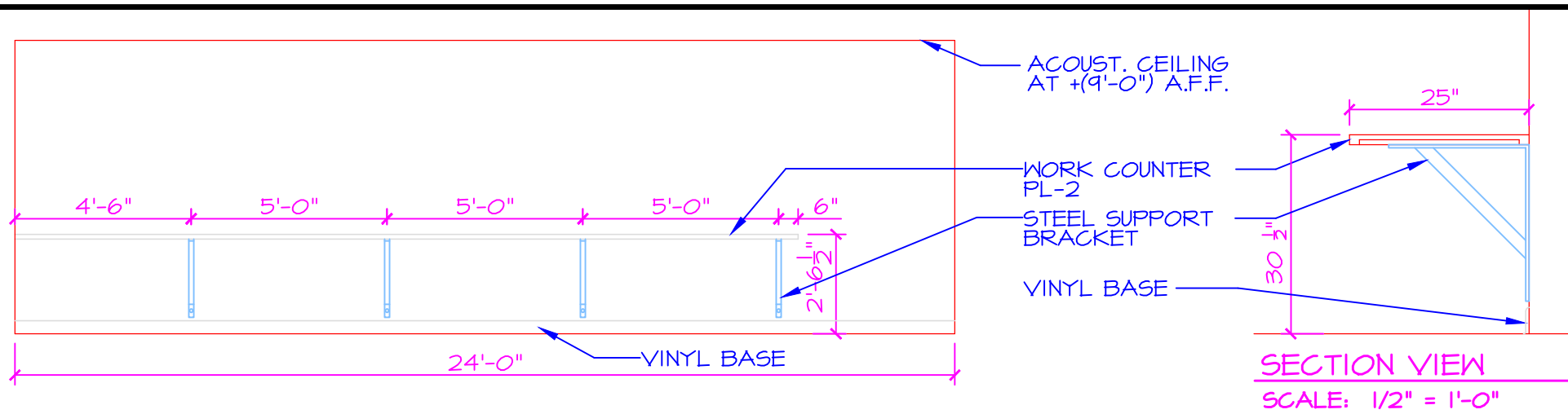
JUNE 2021

SHEET TITLE

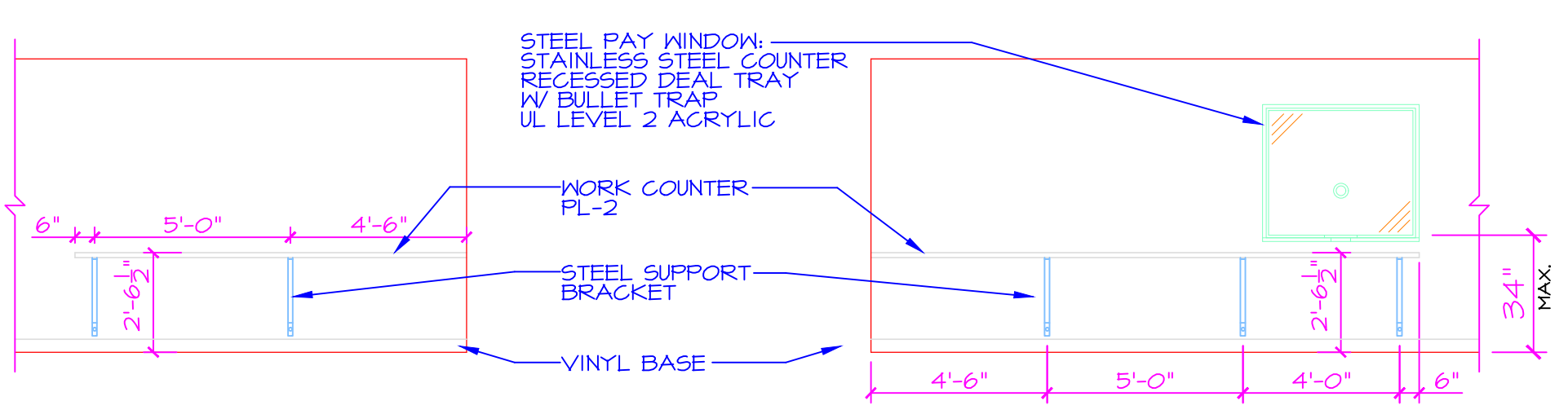
SECTIONS & DETAILS

SHEET NUMBER

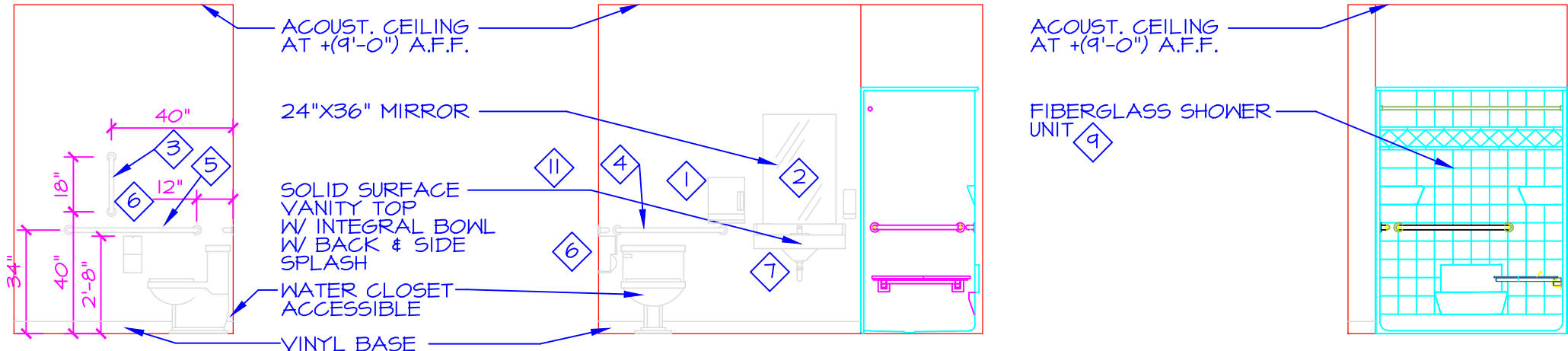
A301



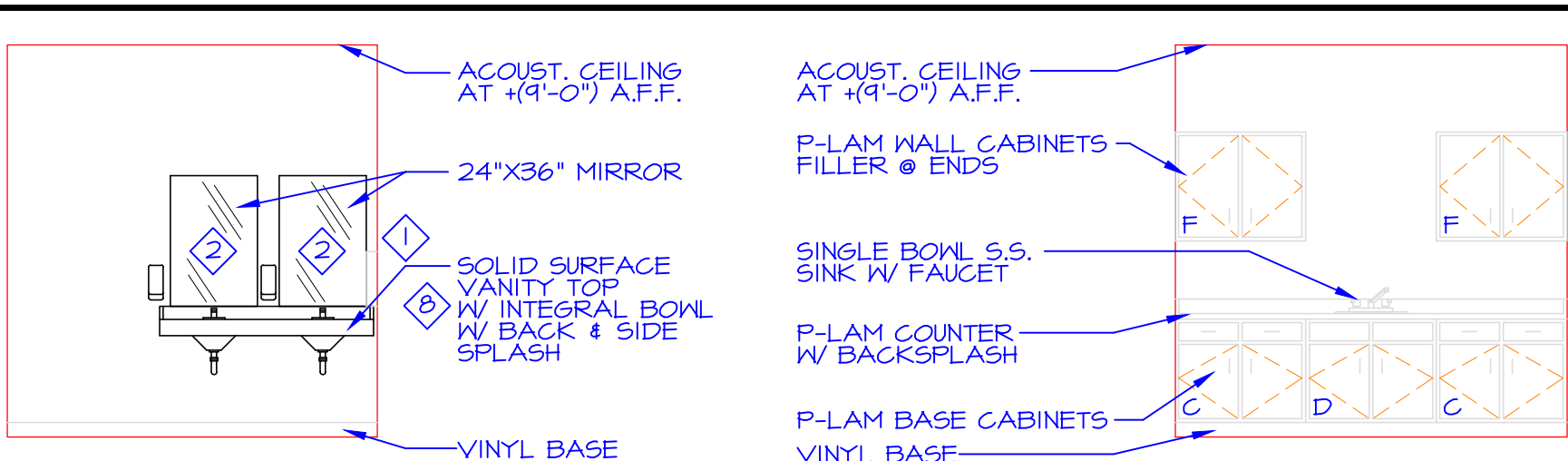
UTILITIES 121
SCALE: 1/4" = 1'-0"



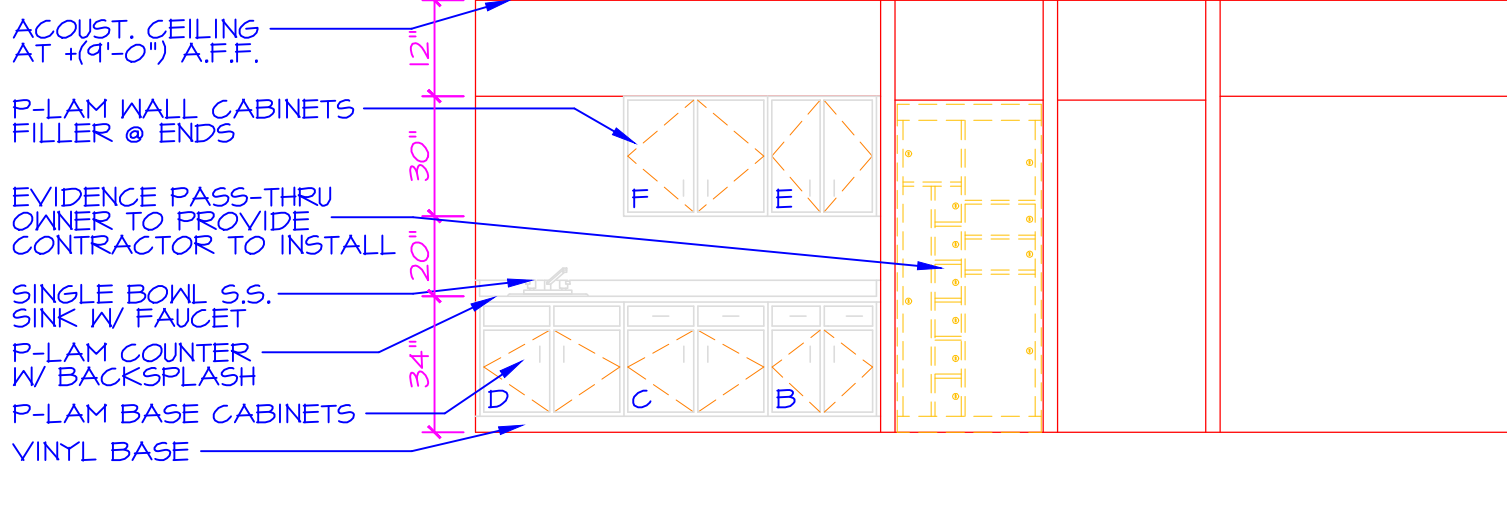
RECEPTION 129
SCALE: 1/4" = 1'-0"



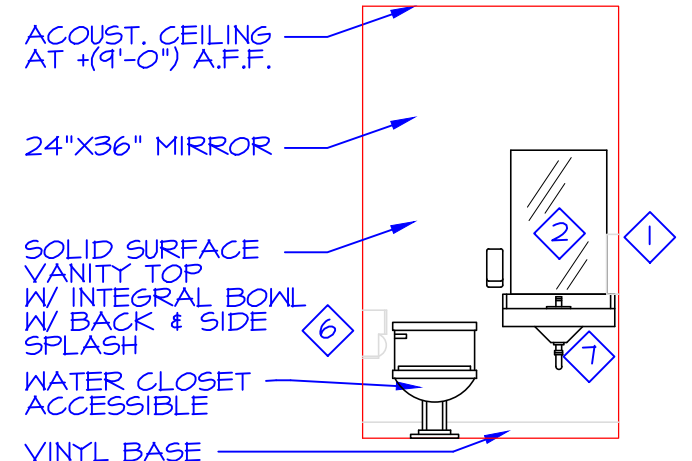
TOILET 143
SCALE: 1/4" = 1'-0"



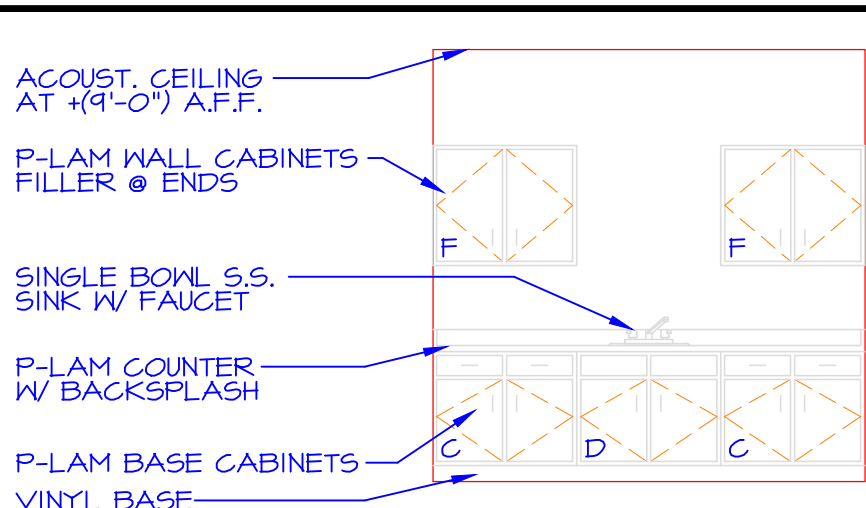
WOMEN 123
SCALE: 1/4" = 1'-0"



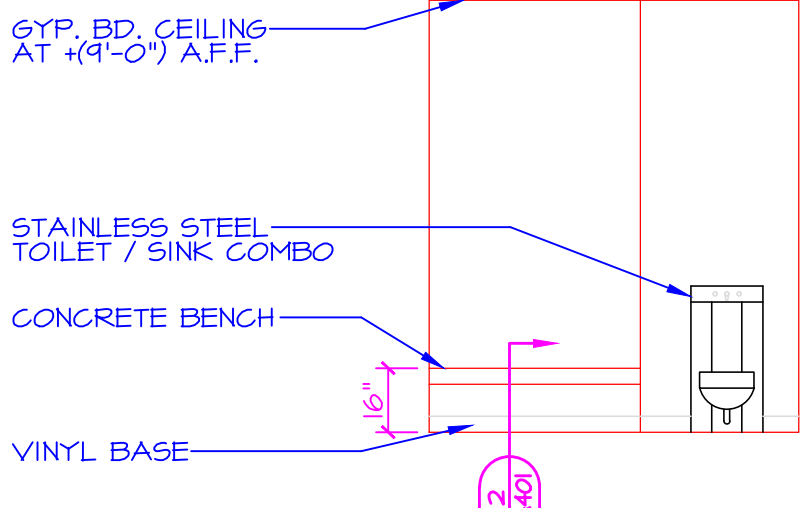
CORRIDOR 135
SCALE: 1/4" = 1'-0"



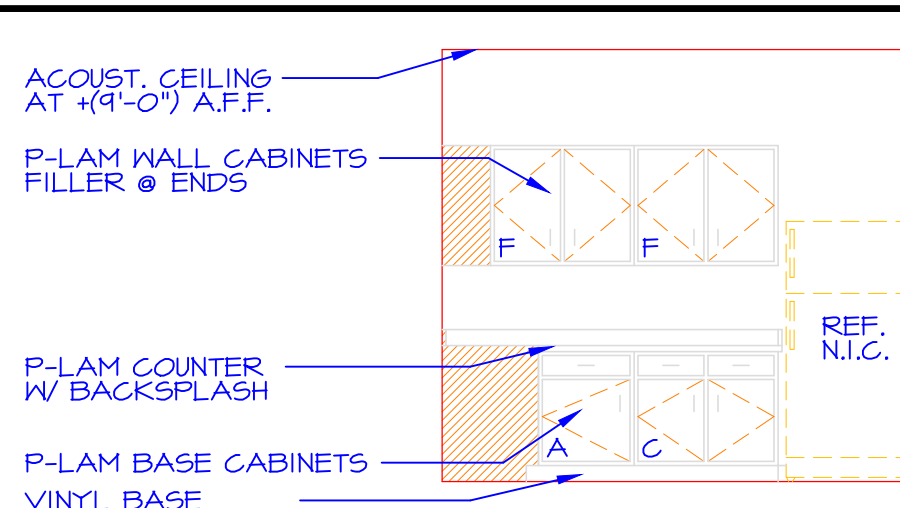
TOILET 145
SCALE: 1/4" = 1'-0"



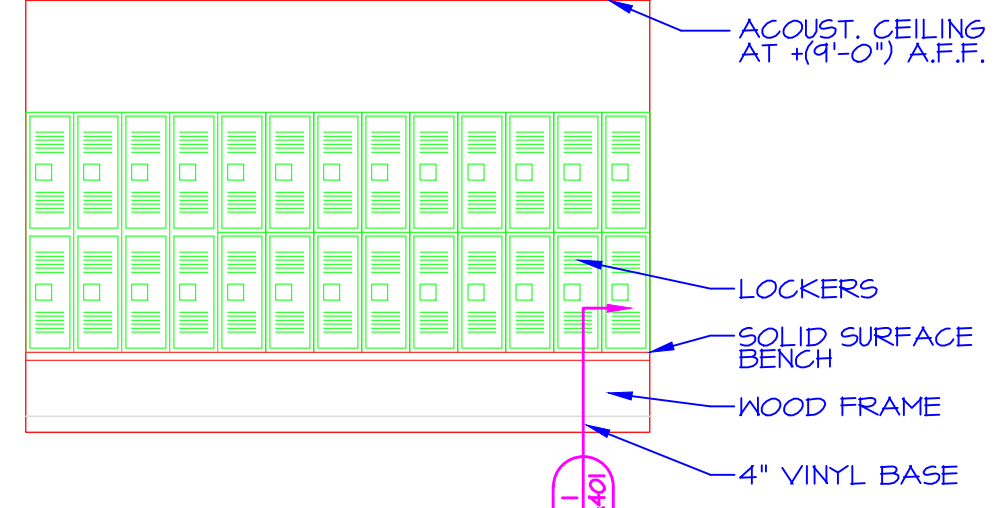
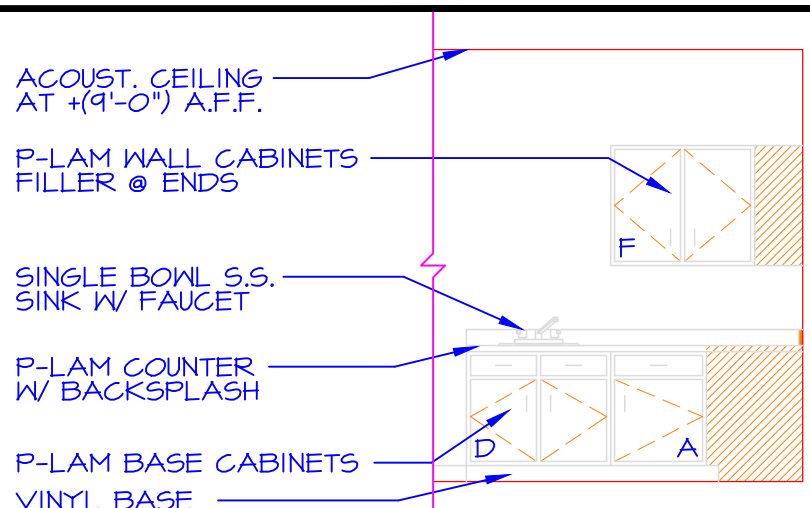
BREAK 126
SCALE: 1/4" = 1'-0"



HOLDING 139
SCALE: 1/4" = 1'-0"



BREAK 128
SCALE: 1/4" = 1'-0"

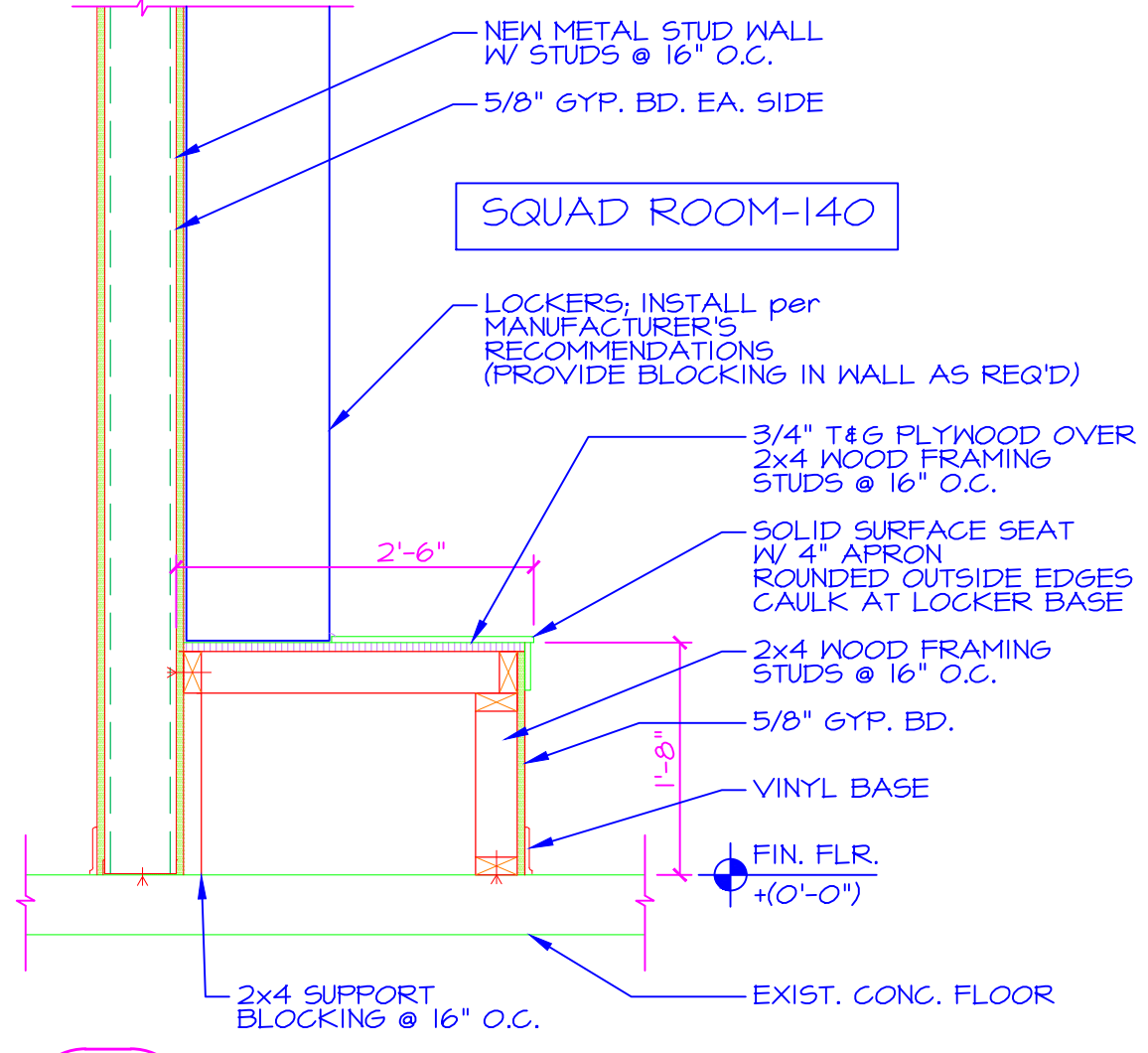


SQUAD ROOM 140
SCALE: 1/4" = 1'-0"

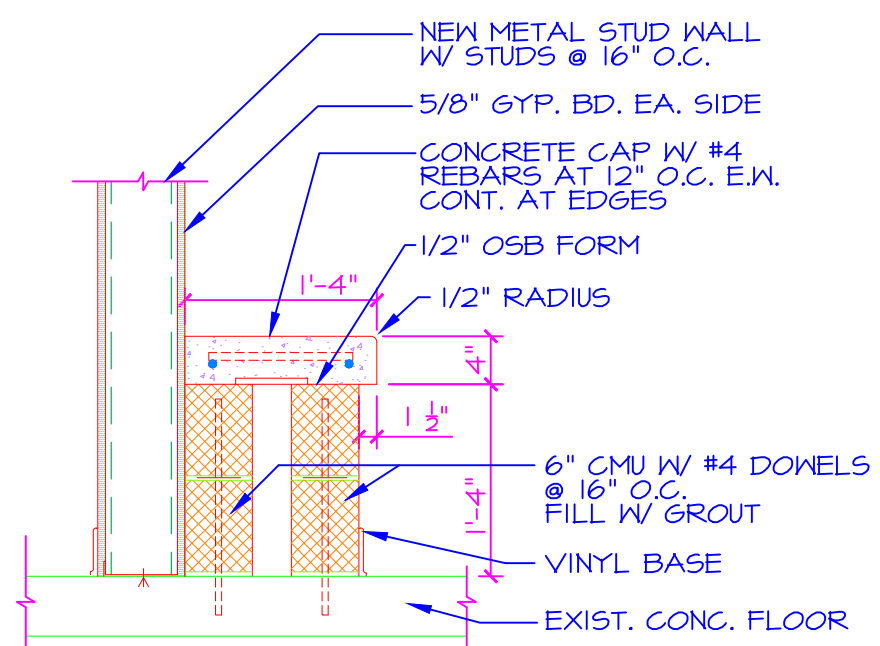
revise and coordinate with spec.

TOILET ACCESSORY SCHEDULE	
KEY	DESCRIPTION
1	PAPER TOWEL DISPENSER - BOBRICK B-262 OR EQUAL
2	MIRROR - BOBRICK B-165 OR EQUAL - 24" x 36"
3	GRAB BAR - 18" VERT. - BOBRICK B-6806x18 OR EQUAL
4	GRAB BAR - 36" - BOBRICK B-6806x36 OR EQUAL
5	GRAB BAR - 42" - BOBRICK B-6806x42 OR EQUAL
6	SINGLE ROLL TOILET PAPER DISPENSER - 1 @ EA. WC BOBRICK B-2130 OR EQUAL
7	VANITY TOP - SWAN - SWANSTONE CV-2237 OR EQUAL SOLID SURFACE TOP WITH INTEGRAL BOWL OWNER TO SELECT FROM AGGREGATE COLORS. (BY CABINET CONTRACTOR) TOILET 143 / TOILET 145
8	VANITY TOP - SWAN - SWANSTONE CV-2260 OR EQUAL SOLID SURFACE TOP WITH (2) INTEGRAL BOWLS OWNER TO SELECT FROM AGGREGATE COLORS. (BY CABINET CONTRACTOR) TOILET 143 / TOILET 145
9	PRE-FAB SHOWER UNIT - SEE MEP PLANS (BY PLUMBING CONTRACTOR) TOILET 143

CABINET SCHEDULE		
KEY	DESCRIPTION	REMARKS
BREAK/WORK GENERAL		
A	24" w x 24" d x 36" h BASE CABINET	ACCESSIBLE
B	21" w x 24" d x 36" h BASE CABINET	ACCESSIBLE
C	36" w x 24" d x 34" h BASE CABINET	ACCESSIBLE
D	36" w x 24" d x 34" h SINK BASE	ACCESSIBLE W/ REMOVABLE FRONT
E	21" w x 12" d x 30" h WALL CABINET	
F	36" w x 12" d x 30" h WALL CABINET	
SEE ELEVATIONS, THIS SHEET FOR CABINET HEIGHTS WOOD/P-LAM CUSTOM CASEWORK P-LAM COUNTERS TO BE FROM PREMIUM SELECTIONS SOLID SURFACE COUNTERS TO BE FROM STANDARD SELECTIONS ALL P-LAM TO HAVE MATCHING EDGE BANDING SOME CABINETS TO HAVE LOCKS - SEE SCHEDULE SEE TOILET ACCESSORY SCHEDULE FOR VANITY TOPS		

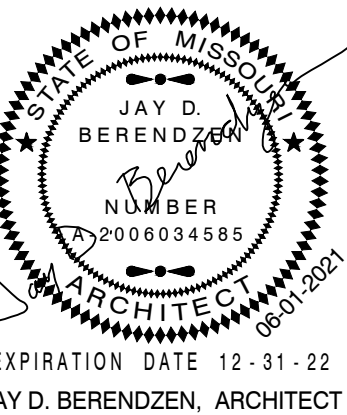


1 A401 SEAT DETAIL - SQUAD ROOM-140
SCALE: 3/4"=1'-0"



2 A401 SEAT DETAIL - HOLDING-139
SCALE: 3/4"=1'-0"

GENERAL FIXTURE MOUNTING HEIGHTS - ALSO SEE INTERIOR ELEVATIONS					
DRINKING FOUNTAIN ACCESSIBLE	DRINKING FOUNTAIN ACCESSIBLE	LAVATORY ACCESSIBLE	URINAL STANDARD	URINAL ACCESSIBLE	URINAL ACCESSIBLE
DRINKING FOUNTAIN STANDARD	DRINKING FOUNTAIN ACCESSIBLE	LAVATORY ACCESSIBLE	TISSUE HOLDER MOUNTING HEIGHT	WATER CLOSET ACCESSIBLE	WATER CLOSET STANDARD
DRINKING FOUNTAIN ACCESSIBLE	DRINKING FOUNTAIN ACCESSIBLE	LAVATORY STANDARD	GRAB BARS IN ACCESSIBLE STALL	WATER CLOSET IN OPEN TOILET ROOM	ACCESSIBLE WATER CLOSET FOR CHILDREN'S USE
MIRROR - MOUNTING HEIGHT ACCESSIBLE	HAND DRYER MOUNTING HEIGHT	FIRE EXTINGUISHER MOUNTING HEIGHT			



MISSOURI ARC-000588
EXP. 12/31/21
JAY D. BERENDZEN, ARCHITECT

PORTER, BERENDZEN & ASSOCIATES, P.C.
ARCHITECTS
200 SOUTH HENRY CLAY BLVD., SUITE 400
ASHLAND, MISSOURI 65010
573.657.2025
jag@pbaarchitects.com

DO NOT SCALE THIS DRAWING. SOME DEVIATION FROM SCALE MAY OCCUR FROM REPRODUCTION. DRAWINGS ARE THE PROPERTY OF PORTER, BERENDZEN & ASSOCIATES P.C. AND MAY NOT BE COPIED OR USED IN WHOLE OR IN PART WITHOUT THE WRITTEN CONSENT OF PORTER, BERENDZEN & ASSOCIATES P.C.

PROJECT

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri

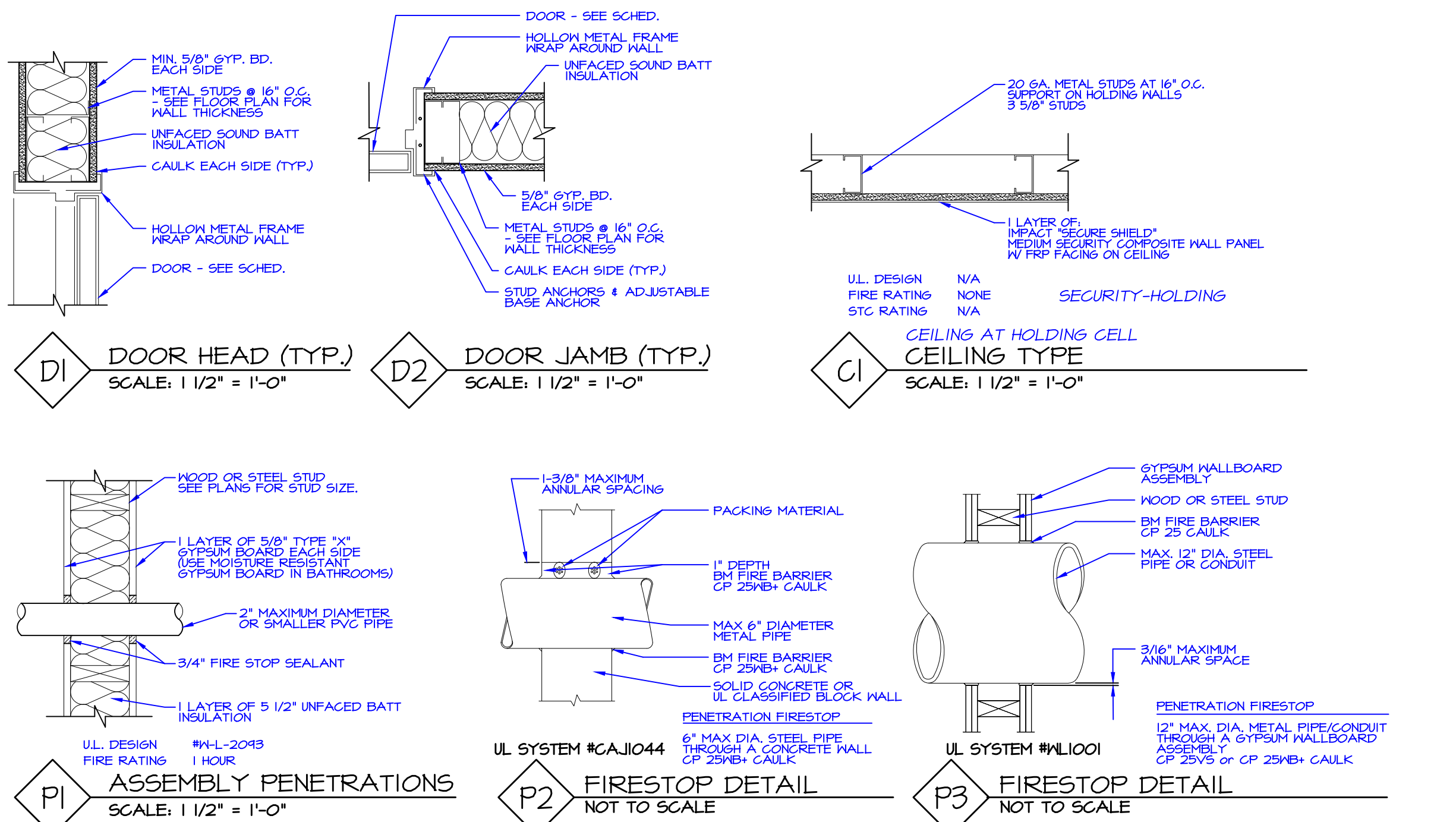
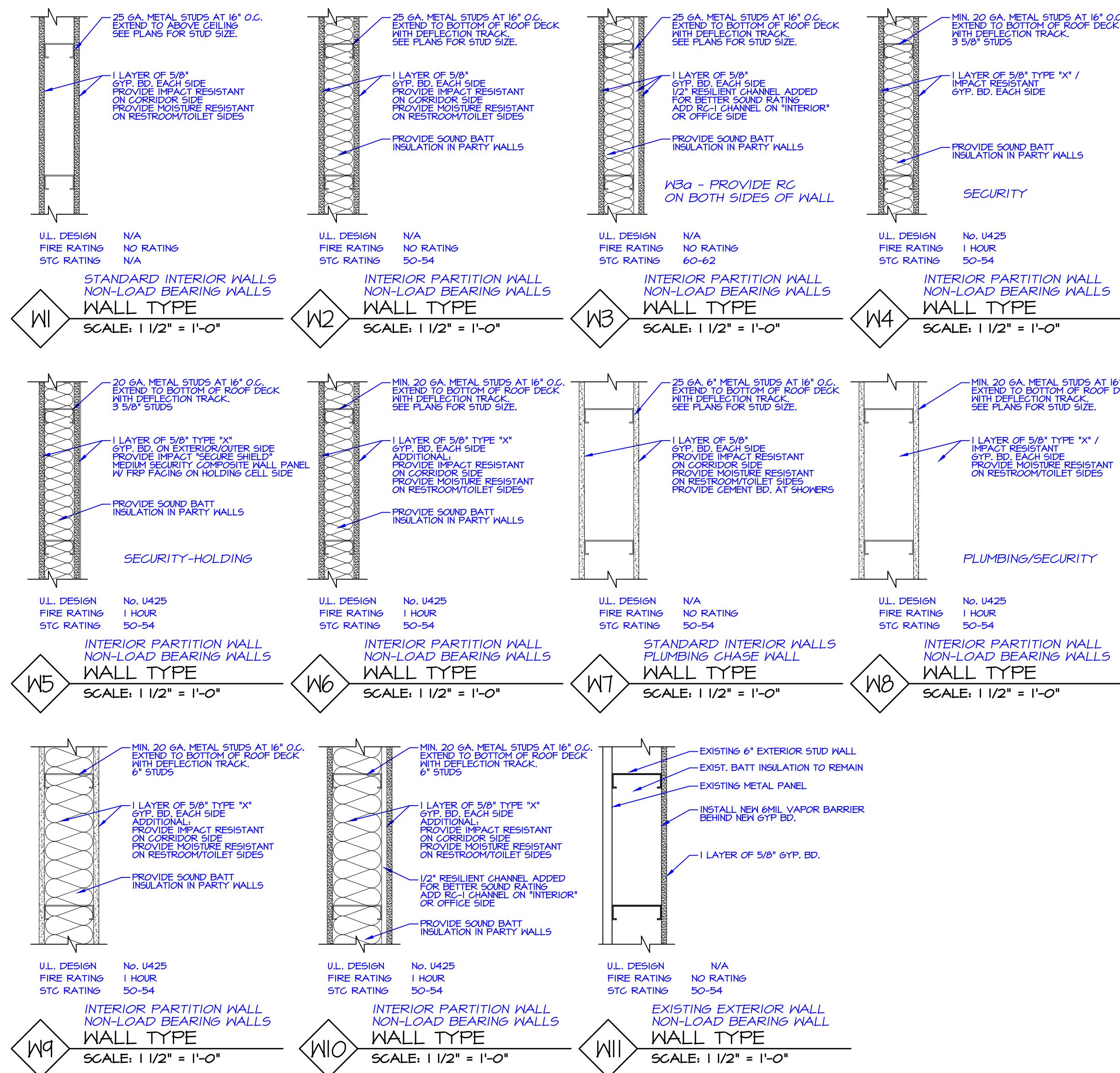
ID	DESCRIPTION	DATE
1	Permit Set	06/01/2021

PROJECT NO.
pba-2108
PROJECT DATE
JUNE 2021
SHEET TITLE

INTERIOR ELEVATIONS

SHEET NUMBER

A401



ROOM FINISH SCHEDULE										
RM. #	ROOM NAME	FLOOR	BASE	WALLS				CEILING	CLG. HGMT.	REMARKS
				NORTH	SOUTH	EAST	WEST			
100	LOBBY	EXISTING	EXISTING	GYP. BD. PAINT	GYP. BD. PAINT	GYP. BD. PAINT	GYP. BD. PAINT	EXISTING	EXISTING 12'-4"	PATCH & PAINT ALL WALLS
101	RECEPTION	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
102	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
103	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
104	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
105	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
106	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
107	OFFICE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
108	HALL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
109	MECH.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
110	MENS RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
111	WOMENS RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
112	STAIR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PATCH & PAINT ALL WALLS
113	CORRIDOR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
114	CONFERENCE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
115	CONFERENCE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
116	CORRIDOR	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
117	CORRIDOR	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
118	OFFICE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
119	OFFICE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
120	OFFICE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
121	UTILITIES	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
122	JAN.	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	NO WORK THIS SPACE
123	WOMENS RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PATCH & PAINT EXIST. WALLS
124	MENS RESTROOM	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	PATCH & PAINT EXIST. WALLS
125	BOARD ROOM	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202-TEGLAR	VARIES	PATCH & PAINT EXIST. WALLS
126	BREAK	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
127	MECHANICAL	CONCRETE	VINTL	GYP. BD. PAINT	GYP. BD. PAINT	GYP. BD. PAINT	GYP. BD. PAINT	EXPOSED	OPEN	PATCH & PAINT EXIST. WALLS
128	STORAGE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
129	BREAK	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
130	RECEPTION	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
131	LOBBY	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
132	SERVER	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	OPEN	PATCH & PAINT EXIST. WALLS
133	INTERVIEW	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	EXIST. GYP. PAINT	8'-0"	PATCH & PAINT EXIST. WALLS + CLG.
134	GHEIF	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	EXIST. GYP. PAINT	8'-0"	PATCH & PAINT EXIST. WALLS + CLG.
135	STORAGE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	EXIST. GYP. PAINT	8'-0"	PATCH & PAINT EXIST. WALLS
136	CORRIDOR	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
137	ENTRY	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
138	BOOKING	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
139	HOLDING	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	SECURE ROOM - SPECIAL WALL SURFACING SEE WALL TYPE SCHEDULE
140	SQUAD ROOM	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
141	APP STORAGE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
142	RECORDS	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
143	TOILET	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
144	CORRIDOR	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
145	EVIDENCE STORAGE	LVT	VB-1	EXISTING	EXISTING	EXISTING	EXISTING	ACCOUSTICAL 202	4'-0"	PATCH & PAINT EXIST. WALLS
200	OFFICE	EXISTING	VINTL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	8'-4"	PATCH & PAINT EXIST. WALLS CUT EXIST. CLG./FLOOR AT NEH WALL
201	OFFICE	EXISTING	VINTL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	8'-4"	PATCH & PAINT EXIST. WALLS CUT EXIST. CLG./FLOOR AT NEH WALL
202	HALL	EXISTING	VINTL	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	8'-4"	PATCH & PAINT EXIST. WALLS CUT EXIST. CLG./FLOOR AT NEH WALL

WINDOW SCHEDULE								
	NO.	ROUGH OPENING		FRAME MATERIAL	OPERATION	GLAZING	LOCATION	REMARKS
		WIDTH	HEIGHT					
WINDOW	A	9'-6"	7'-2"	ALUMINUM	FIXED	66	OFFICE	
	B	9'-6"	7'-2"	ALUMINUM	FIXED	66	OFFICE	
	C	4'-0"	3'-6"	STEEL	FIXED	UL ELVEL 2	LOBBY	STEEL PAY WINDOW
	D	3'-4"	3'-4"	STEEL	FIXED	WIRE GLASS	OFFICE	RE-USE EXISTING WINDOW
	E	4'-0"	3'-0"	ALUMINUM	PROJECTED	66 / INSUL. PANEL	EXTERIOR	MATCH EXISTING WINDOWS

WINDOW SCHEDULE NOTES:

- ① SEE ELEVATIONS, THIS SHEET FOR ACTUAL SHAPES AND DIMENSIONS
- ② SEE FLOOR PLAN FOR NUMBER OF WINDOWS PER EACH WINDOW TYPE
- ③ WINDOWS TO BE DARK BRONZE ANODIZED TO MATCH EXISTING.

WINDOW ELEVATIONS

9'-6"

3'-3" 3'-0" 3'-3"

7'-2"

A

9'-6"

3'-2" 3'-0" 3'-2"

7'-2"

B

4'-0"

3'-6"

STEEL PAY WINDOW
STAINLESS STEEL COUNTER
RE-GLAZED TRAY
W/ BULLET TRAP
UL LEVEL 2 ACRYLIC

4'-0"

3'-6"

C

3'-4"

3'-4"

D

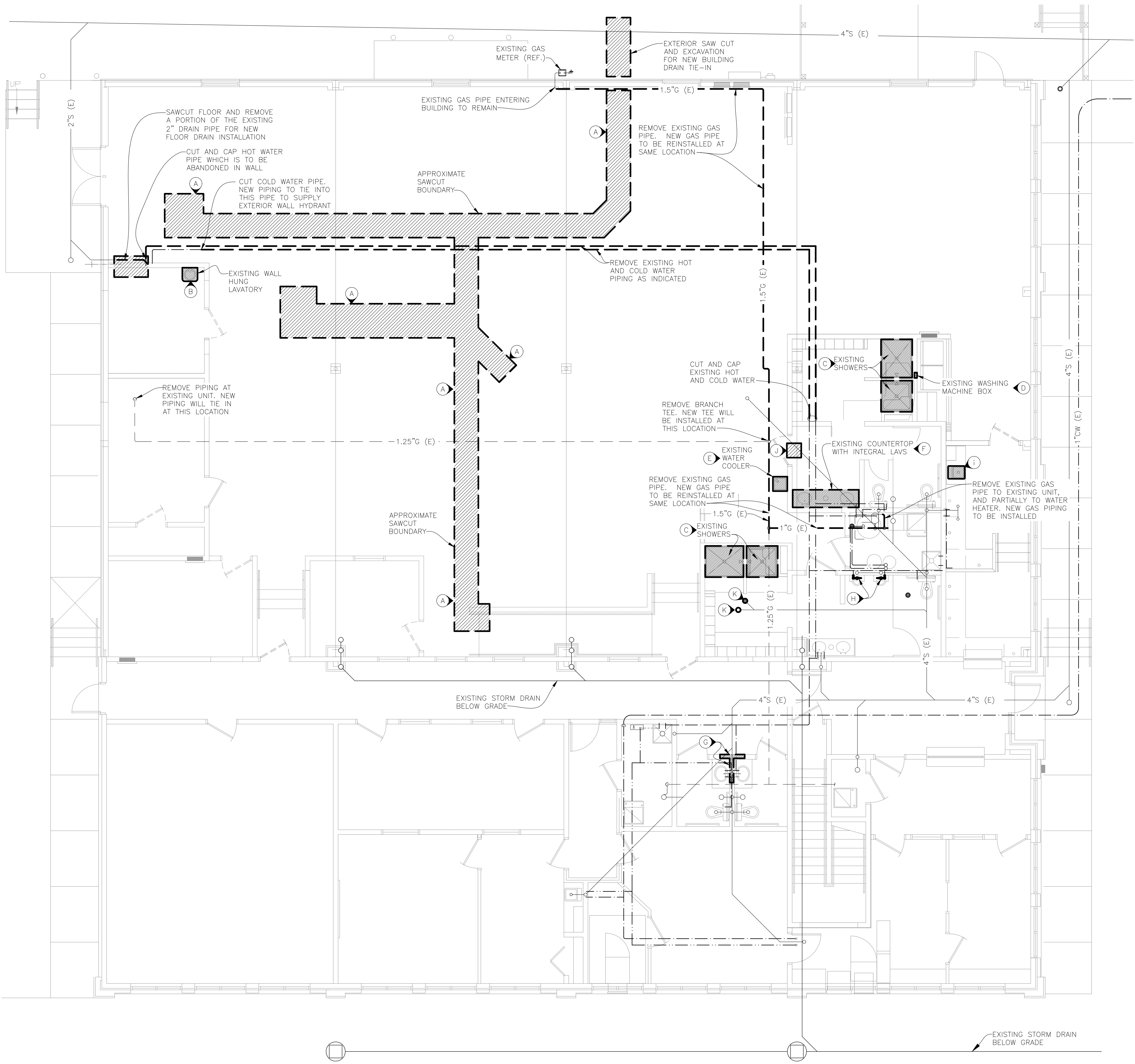
4'-0"

3'-0"

E

DOOR SCHEDULE										
ALL EXISTING DOORS/FRAMES/ROUGH OPENING SIZES/WIDTHS ARE TO BE FIELD VERIFIED PRIOR TO ORDERING										
NO.	SIZE	DOOR		FRAME		GLAZ.	GLAZ. TYPE	FIRE RATING	HARDWARE	REMARKS
		TYPE	MATERIAL	TYPE	MATERIAL					
100a	3'-0" x 7'-0" x 1 3/4"	---	EXIST. ALUM.	---	EXIST. ALUM.	---	---	---	---	EXISTING - See New Hardware Req'd
100b	3'-0" x 7'-0" x 1 3/4"	---	EXIST. WOOD	---	EXIST. WOOD	---	---	---	---	EXISTING - See New Hardware Req'd
101a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
101b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
102	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
103a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
103b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
104a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
104b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
105	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
106a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
106b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
107	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
108	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
109	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
110	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
111	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
112	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
113	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
114a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
114b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
115	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
116	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
118	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
119	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
120	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING - See New Hardware Req'd
121	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
122	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
123	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
124	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
125a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
125b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
126a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
126b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
127	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
128	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
129	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
130	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
131	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
132	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
133	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
134	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
135	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
136	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
137a	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
137b	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
138	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
139	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
140	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
141	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
142	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
143	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
144	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
145	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
146	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	RE-USE EXISTING DOOR & FRAME
200	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
201	3'-0" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING
202	2'-8" x 7'-0" x 1 3/4"	---	---	---	---	---	---	---	---	EXISTING

DOOR TYPES



1 FIRST FLOOR PLUMBING DEMOLITION PLAN
SCALE: 3/16"=1'-0"

GENERAL PLUMBING NOTES

- 1 PLUMBING LAYOUTS ARE SCHEMATIC ONLY. THE EXACT LOCATION AND SIZE OF ALL EXISTING DOMESTIC WATER, SANITARY WASTE AND VENT PIPES HAVE NOT BEEN VERIFIED. MUCH OF THE EXISTING PLUMBING INDICATED IS BASED ON EXISTING BUILDING DRAWINGS. COORDINATE WITH EXISTING SYSTEMS AND PLUMBING FIXTURES WHICH ARE TO REMAIN AFTER DEMOLITION. RELOCATE AND REROUTE NEW OR EXISTING PIPE TO ACCOMMODATE A COMPLETE AND WORKING SYSTEM.
- 2 PIPE SIZES ARE MARKED ALONG THE LENGTH OF RUNS ON THE PLAN. IF THE PIPE SIZE CHANGES ON EITHER SIDE OF A FITTING, A REDUCER FITTING IS IMPLIED. PLUMBING PIPE LAYOUTS ARE DRAWN FOR DESIGN INTENT AND CLARITY. CONTRACTOR SHALL MINIMIZE THE NUMBER OF TURNS AND FITTINGS WHEREVER POSSIBLE WHILE MAINTAINING DESIGN INTENT.
- 3 FABRICATION, INSTALLATION AND TESTING OF ALL PLUMBING SYSTEMS SHALL BE IN ACCORDANCE WITH ALL STATE AND LOCAL PLUMBING CODES.
- 4 COORDINATE ALL CASE WORK, MILL WORK, FREE STANDING PLUMBING FIXTURES, FLOOR, WALL FINISHES AND EQUIPMENT WITH ARCHITECTURAL DRAWINGS.
- 5 PROVIDE SUITABLE SUPPORTS FOR STABILITY OF ALL PLUMBING FIXTURES AND PIPE.
- 6 COORDINATE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES.
- 7 PROVIDE PROTECTIVE ADA INSULATION UNDER ALL NEW EXPOSED LAVATORIES AND SINKS. INSULATION SHALL BE TRUE-BRO, OR EQUIVALENT MANUFACTURED ADA INSULATION, AND IS TO BE INSTALLED ON ALL EXPOSED DRAIN AND WATER SUPPLY PIPES.
- 8 SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS BEYOND THOSE INDICATED ON THE DRAWINGS. SUBMITTALS ARE TO CONTAIN ONLY PROJECT SPECIFIC PRODUCT DATA. SUBMITTALS CONTAINING PRODUCTS NOT FOUND ON THE PROJECT WILL BE REJECTED. PIPE SUBMITTALS SHALL CONTAIN PIPE MATERIALS AND JOB SPECIFIC FITTINGS ONLY. DO NOT SUBMIT ON HANGER INFORMATION, ALLTHREAD, ANCHORS, CLIPS, NUTS, BOLTS, MASTICS, SOLDER, FLUX, PVC CEMENT, PVC PRIMER, OR FIRE CAULK/FIRE PENETRATION PRODUCTS OR DETAILS. DO NOT SUBMIT CATALOG PAGES OF FITTING DIMENSIONS. DO NOT SUBMIT CHEMICAL RESISTANCE INFORMATION, MSDS SHEETS, TOXICOLOGY, ECOLOGICAL, OR LEED INFORMATION. DO NOT SUBMIT INSTALLATION INSTRUCTIONS UNLESS SPECIFICALLY REQUESTED. ALL PROPOSED ITEMS IN SUBMITTALS SHOULD BE HIGHLIGHTED OR MARKED. SUBMITTALS THAT CONTAIN EXCESSIVE ITEMS LISTED ABOVE, OR NON-HIGHLIGHTED/MARKED ITEMS WILL BE REJECTED.

GENERAL PLUMBING DEMOLITION NOTES

- 9 COVER ALL OPENINGS INTO THE BUILDING FROM THE WORK AREA. INSURE DEBRIS IS REMOVED FROM THE CONSTRUCTION AND DEMOLITION AREA AND AIR BORN DEBRIS IS NOT ALLOWED TO TRAVEL TO THE REMAINDER OF THE BUILDING.
- 10 INSTALL TEMPORARY CAPS AT TERMINATION POINTS OF EXISTING PIPING, ETC. TO REMAIN DURING DEMOLITION PHASES.
- 11 COORDINATE WITH EXISTING SYSTEMS WHICH SHALL REMAIN IN OPERATION DURING DEMOLITION AND CONSTRUCTION PHASES.
- 12 AFTER DEMOLITION; THE EXISTING WASTE, VENT, HOT AND COLD WATER PIPE SERVING EXISTING FIXTURES TO REMAIN SHALL BE RECONNECTED AND/OR REROUTED AS REQUIRED TO PROVIDE SERVICE TO THESE AND NEW FIXTURES.
- 13 REMOVE ALL UNUSED PIPES AND FITTINGS EXCEPT AS NOTED.

KEYED PLUMBING DEMOLITION NOTES

- (A) CONTRACTOR TO SAW-CUT THE CONCRETE AND EXCAVATE EARTH WHERE SPECIFIED IN ORDER TO EXTEND EXISTING SANITARY SEWER FOR NEW TOILET INSTALLATIONS. CONTRACTOR TO REMOVE AND DISPOSE OF ALL CONCRETE DEBRIS.
- (B) REMOVE EXISTING WALL HUNG LAVATORY. LAVATORY WILL BE RE-USED IN TLT 143 ROOM AS INDICATED ON DRAWING P102. REMOVE EXISTING P-TRAP AND DRAIN FOR REUSE. CAP SANITARY TEE IN WALL. REMOVE WATER SUPPLY PIPES BACK INTO WALL AND CAP. WATER SUPPLY STOPS ARE NOT TO BE REUSED. REMOVE AND REUSE ADA INSULATION IF POSSIBLE.
- (C) REMOVE EXISTING SHOWER ENCLOSURES. REMOVE DRAIN DOWN BELOW FLOOR AND CAP. REMOVE IN-WALL VENTS TO ABOVE CEILING AND CAP. REMOVE WATER SUPPLY PIPE UP TO ABOVE NEW CEILING AND CAP.
- (D) REMOVE EXISTING WASHING MACHINE BOX. REMOVE DRAIN PIPING TO BELOW FLOOR AND CAP. REMOVE VENT PIPE TO ABOVE CEILING AND CAP. REMOVE WATER PIPING TO ABOVE CEILING AND CAP.
- (E) REMOVE EXISTING ELECTRIC WATER COOLER. DEMO P-TRAP AND DRAIN BACK INTO WALL AND CAP. REMOVE WATER SUPPLY STOPS AND CAP WATER PIPING BACK IN WALL. ELECTRIC WATER COOLER WILL BE RELOCATED AS INDICATED ON SHEET P102.
- (F) REMOVE EXISTING DOUBLE LAVATORY COUNTERTOP. REMOVE DRAIN PIPING BACK INTO WALL AND CAP. REMOVE WATER SUPPLY PIPING AND STOPS, AND CUT PIPING BACK INTO WALL AND CAP.
- (G) COORDINATE WITH GC TO REMOVE PART OF THE CORRIDOR WALL, AND UNDER LAVATORY SHEETROCK IN MEN 110 RESTROOM TO GAIN ACCESS TO EXISTING DRAIN AND VENT PIPE. RELOCATED ELECTRIC WATER COOLER WILL BE INSTALLED IN THE CORRIDOR AT THIS LOCATION AND NEW DRAIN AND WATER PIPING IS TO BE ROUTED IN THESE LOCATIONS.
- (H) REMOVE EXISTING URINAL FLUSH VALVES AND REPLACE WITH NEW PISTON TYPE FLUSH VALVES AS INDICATED ON SHEET P102.
- (I) REMOVE EXISTING SINK. REMOVE EXISTING P-TRAP AND DRAIN. CAP SANITARY TEE IN WALL. REMOVE WATER SUPPLY PIPES BACK INTO WALL AND CAP.
- (J) SAWCUT FLOOR TO ADD NEW LAVATORY DRAIN.
- (K) REMOVE EXISTING FLOOR CLEANOUT, AND FLOOR DRAIN. CAP BRANCH BELOW FLOOR LEVEL.

PLUMBING LEGEND

---	PIPE BREAK (CONTINUES ON)	---	SANITARY DRAIN OR WASTE (S)
(1)	KEYED NOTE SPECIFIC TO LOCATION ON PLAN	---	STORM DRAIN (ST)
(E)	EXISTING PIPE	---	PLUMBING VENT (V)
VTR	VENT THROUGH ROOF	---	POTABLE COLD WATER LINE (CW)
CO	CLEAN OUT PLUG	---	POTABLE HOT WATER LINE (HW)
○ ○ ◁	PIPE UP, PIPE DOWN, PIPE REDUCER	---	NATURAL GAS LINE (G)
Φ	BALL VALVE	■	REMOVE EQUIPMENT OR FIXTURES
→	DIRECTION OF FLOW	---	REMOVE PIPING



THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: GES
Drawn By: GES
Checked By: JLD

Revision	Date	No.

Scale: 3/16" = 1'-0"

PLUMBING DEMOLITION PLAN

Date: 20210601

P101



GENERAL PLUMBING NOTES

1 SEE SHEET P101 FOR GENERAL PLUMBING NOTES.

KEYED NOTES

- (A) ROUTE 1/2" CW AND HW TO SINK OR LAVATORY
- (B) ROUTE 1/2" CW TO WATER CLOSET.
- (C) MOVE AND INSTALL EXISTING WALL HUNG LAVATORY AND FAUCET. PROVIDE NEW WATER STOPS, AND WATER SUPPLY TUBING. RE-INSTALL EXISTING P-TRAP, DRAIN, AND ADA UNDERSINK INSULATION.
- (D) EXISTING 1/2" CW TO BE TIED INTO NEW 3/4" CW TO SUPPLY EXTERIOR WALL HYDRANT.
- (E) 1/2" CW AND HW TO SHOWER VALVE.
- (F) REINSTALL EXISTING WALL HUNG ELECTRIC WATER COOLER AT NEW LOCATION. TIE IN NEW WASTE AND VENT PIPING AS INDICATED ON SHEET P601.
- (G) PROVIDE 1" BYPASS AROUND BOOSTER PUMP BP-1.
- (H) COORDINATE WITH GAS UTILITY REGARDING NEW BUILDING GAS LOAD, AND ANY CHANGES TO EQUIPMENT IT MAY REQUIRE.

PLUMBING LEGEND

	CONNECTION TO EXISTING SYSTEM
	PIPE BREAK (CONTINUES ON)
	DEVICE SCHEDULE TAG
	PIPE SIZE (IN INCHES) (AND TYPE)
	KEYED NOTE SPECIFIC TO LOCATION ON PLAN
	EXISTING PIPE
	VENT THROUGH ROOF
	CLEAN OUT PLUG
	PIPE UP, PIPE DOWN, PIPE REDUCER
	BALL VALVE
	CALIBRATED BALANCE VALVE
	SWING CHECK VALVE
	SPRING CHECK VALVE
	UNION
	Y-STRAINER
	SANITARY DRAIN OR WASTE (S)
	PLUMBING VENT (V)
	POTABLE COLD WATER LINE (CW)
	POTABLE HOT WATER LINE (HW)
	POTABLE HOT WATER RETURN LINE (HWR)
	NATURAL GAS LINE (G)
	DETAIL CALL REFERENCE, NUMBER/SHEET

Design By: GES

Drawn By: GES

Checked By: JLD

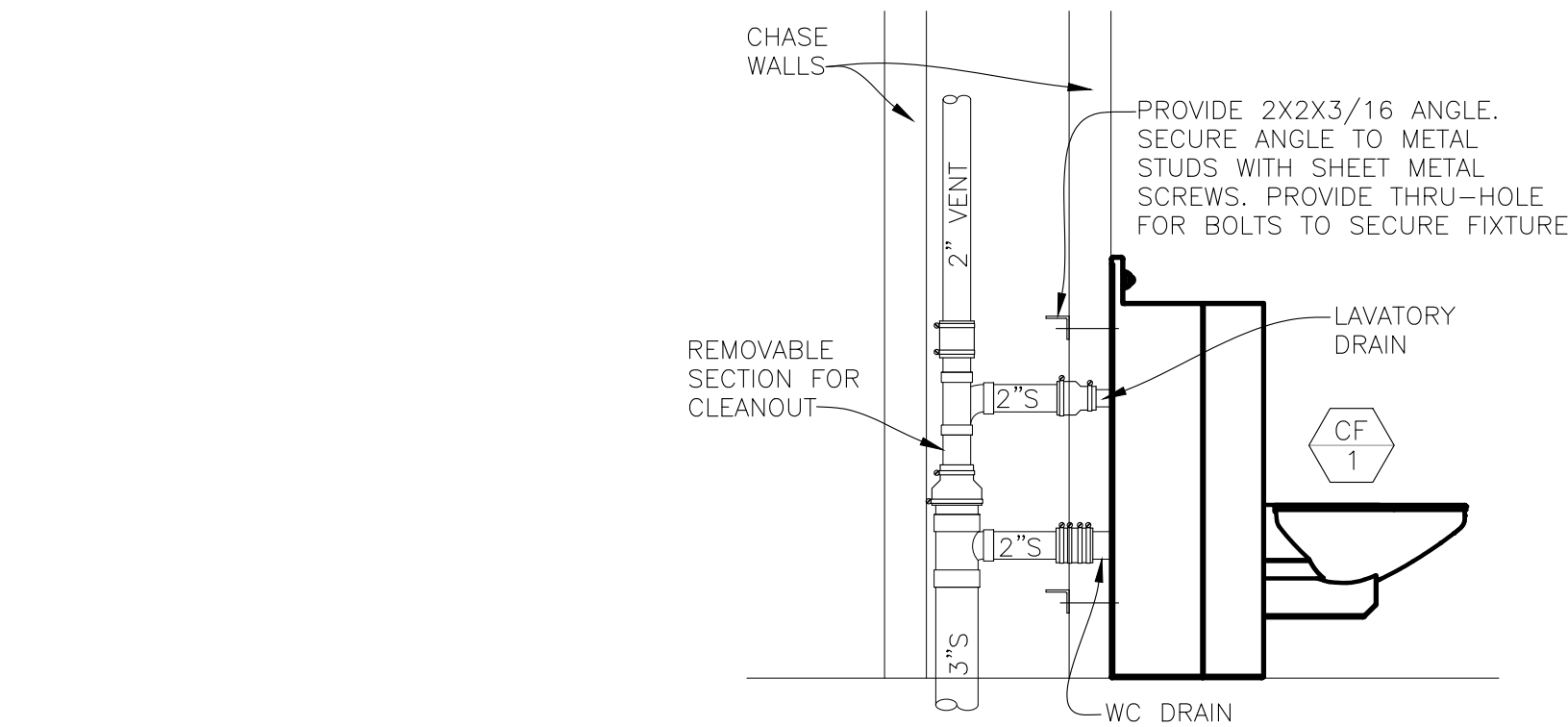
Revision	Date	No.

Scale: 3/16" = 1'-0"

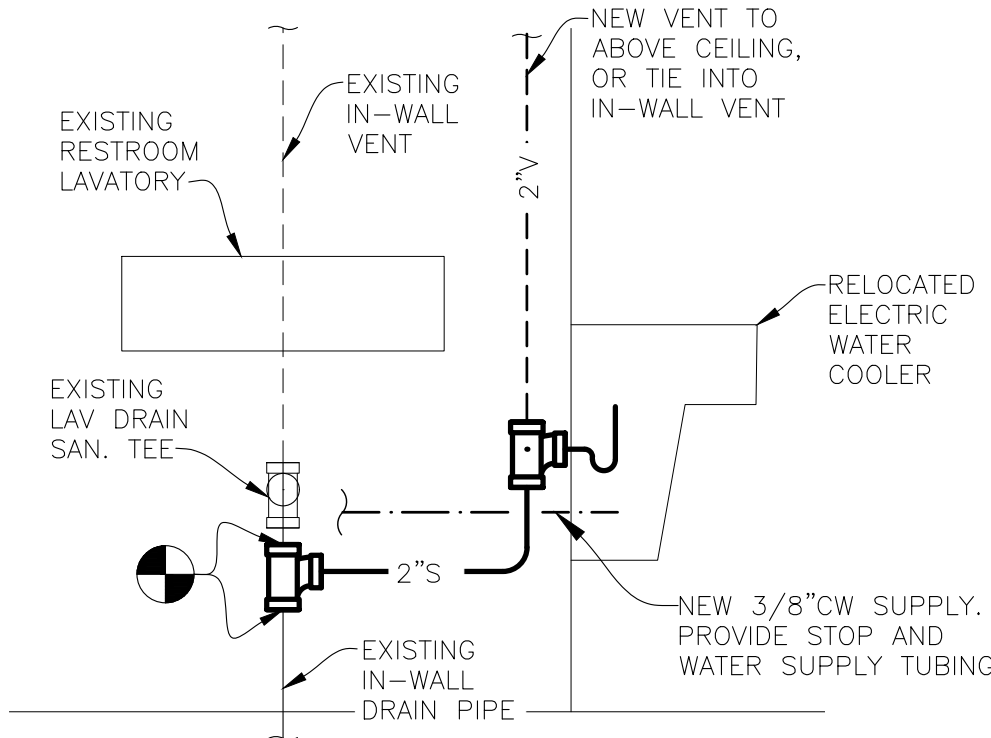
PLUMBING
RENOVATION
PLAN

Date: 20210601

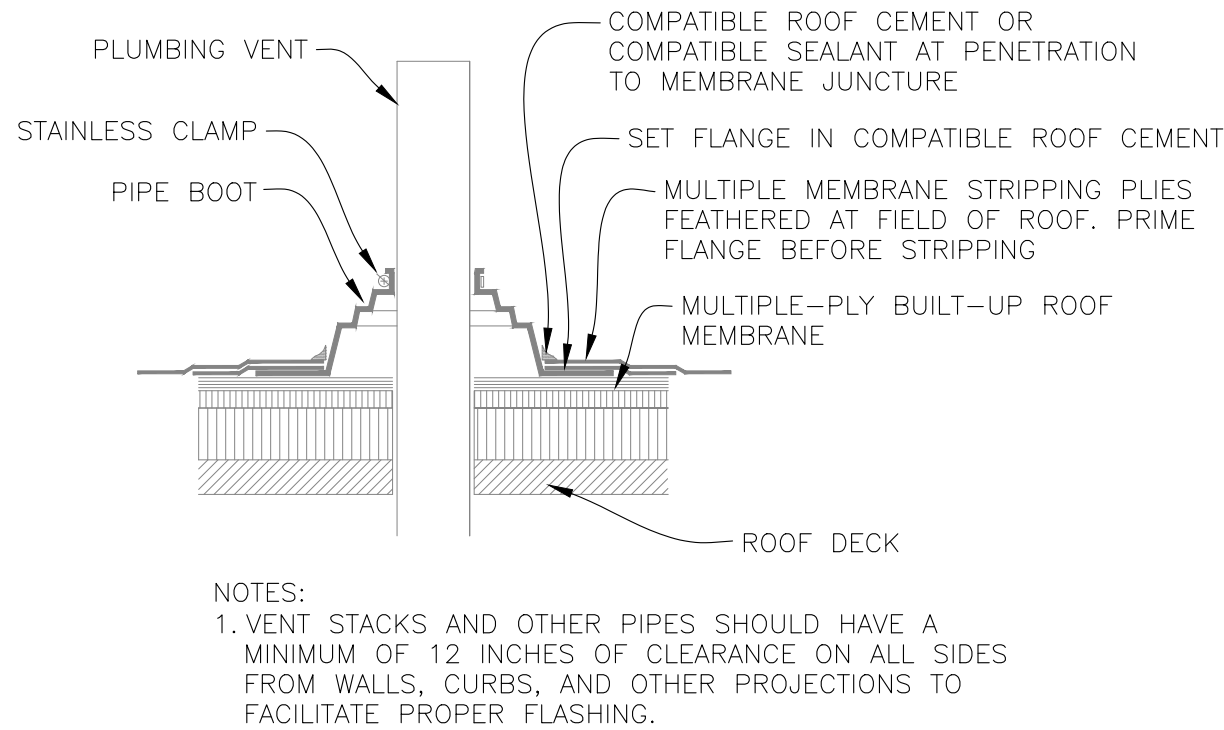
P102



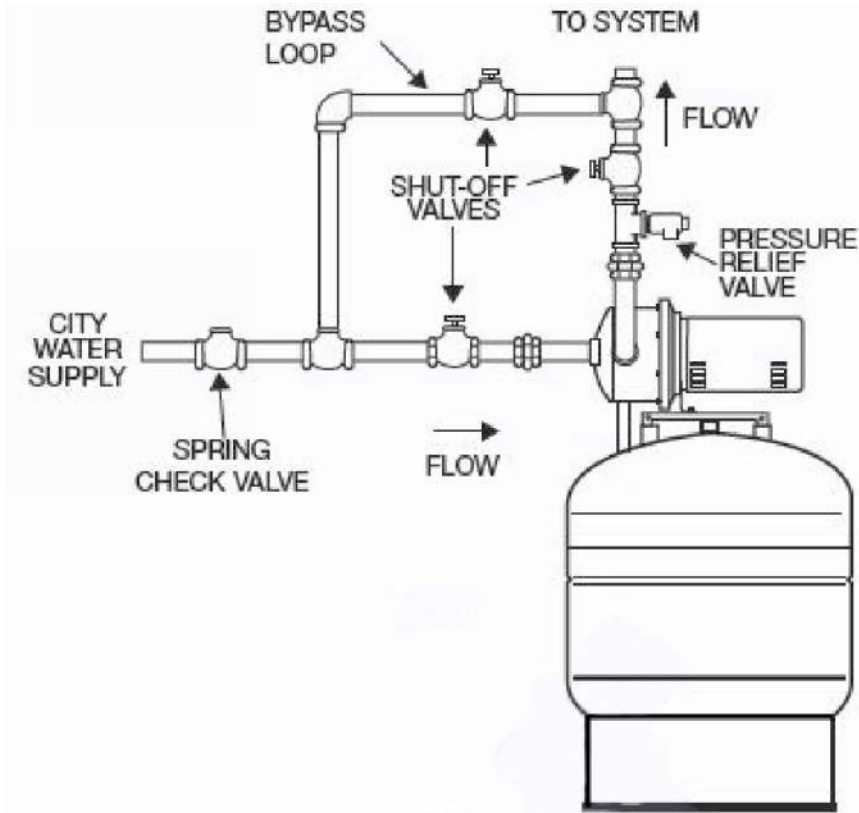
1 COMBINATION FIXTURE INSTALLATION DETAIL
NO SCALE



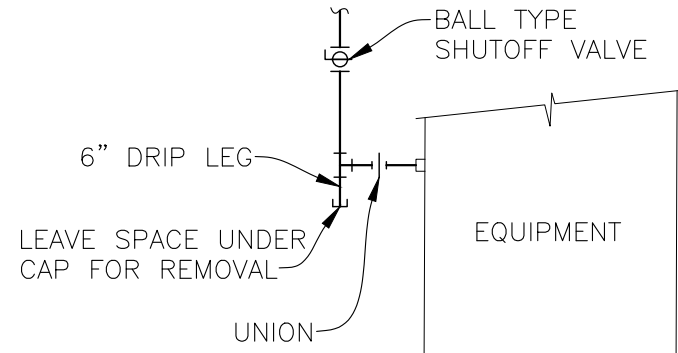
2 RELOCATED WATER COOLER DETAIL
NO SCALE



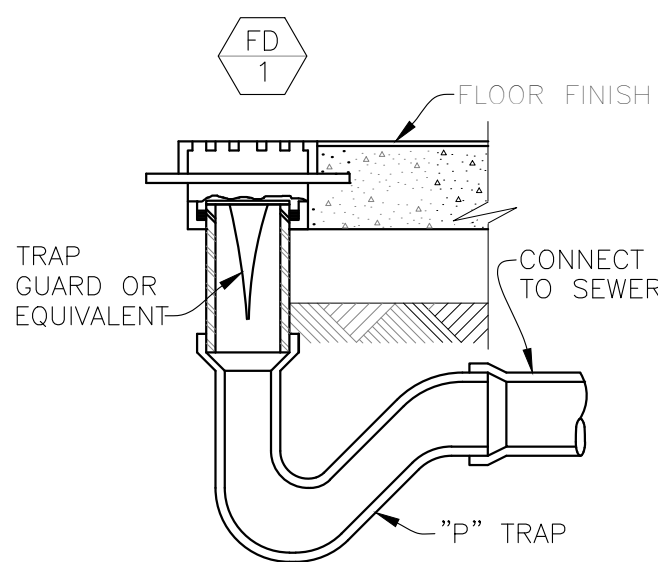
3 PLUMBING VENT ROOF TERMINATION DETAIL
NO SCALE



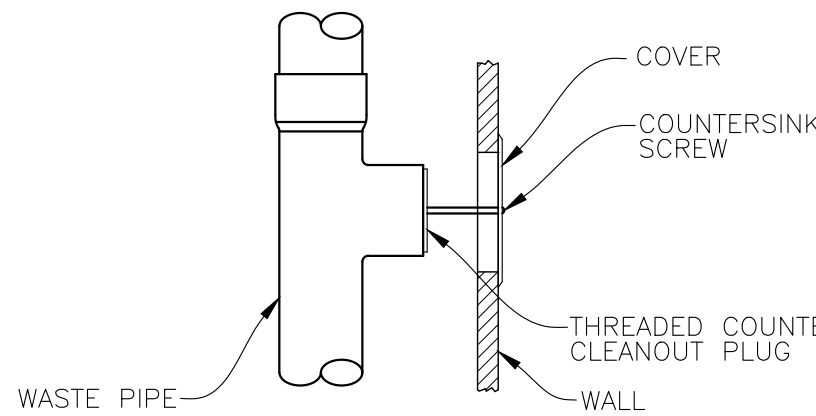
4 BOOSTER PUMP PIPING DIAGRAM
FROM AMTROL MANUAL



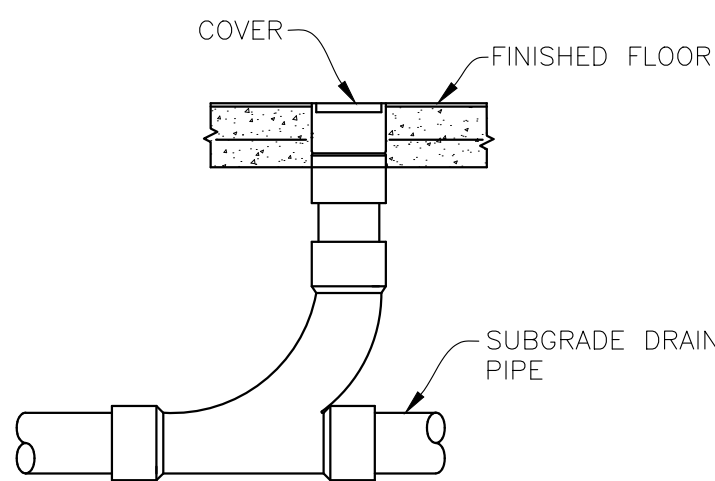
5 GAS CONNECTION DETAIL
NO SCALE



6 FLOOR DRAIN DETAIL
NO SCALE



7 WALL CLEANOUT DETAIL
NO SCALE



8 FLOOR CLEANOUT DETAIL
NO SCALE

TOILET SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
WC 1	ZURN Z5552-K NON-ADA	WATER CLOSET W/TANK	3 INCH WASTE 0.5 INCH SUPPLY	SIPHON JET TOILET, 1.6 GPF, ELONGATED 3" TANK TYPE FLUSH VALVE,	1,2,3
WC 2	ZURN Z5551-K ADA	WATER CLOSET W/TANK	3 INCH WASTE 0.5 INCH SUPPLY	SIPHON JET TOILET, 1.6 GPF, ELONGATED 3" TANK TYPE FLUSH VALVE,	1,2,3
NOTES	1 Z5955-SS-EL-AM TOILET SEAT SS BOLTS TO TOILET MFG: ZURN, OPEN FRONT ELONGATED, STANDARD WHITE, LESS COVER, W/SS CHECK HINGE, ANTI-MICROBIAL PROTECTION.				
2	PROVIDE: CLOSET BOLTS, WAX RING, BRAIDED SUPPLY, 1/4 TURN STOP VALVE				
3	ANY SUBSTITUTION SHALL REQUIRE SIPHON-JET TYPE FLUSH DESIGN				

COMBINATION FIXTURE (WC & LAV) SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
CF 1	WILLOUGHBY ECW-1846FA	LAV-TOILET COMBINATION FIXTURE		WALL OUTLET, (ON) ON-FLOOR, (C) CENTERED, 1,2,3,4 (BPH) LIGATURE-RESISTANT BUBBLER/FILLER, 1.6 GPF, SEE NOTES BELOW FOR ADDITIONAL REQUIREMENTS	
NOTES	MODEL	DESCRIPTION	CONNECTIONS	REMARK	
1	(PBH) LIGATURE-RESISTANT PNEUMATIC PUSH BUTTONS, (RPT) REMOVABLE P-TRAP 1.5"				
2	(TWE) TOILET WASTE EXTENSION, (TWC3P) - 3" PVC CONNECT, (T4) MANUAL RESET OVERFLOW PREVENTER				
3	(FV) HYDRAULIC FLUSH VALVE WITH PUSH BUTTON, (RTH) RECESSED TISSUE HOLDER-RIGHT SIDE				
4	(HPS) HIGH POLISH SEAT, (TSC) TOILET SHIPPING COVER				

URINAL FLUSHVALVE SCHEDULE					
TAG	MFG/MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
UFV 1	ZURN Z6203 -WS1	PISTON FLUSH VALVE	3/4" WATER 3/4" OUTLET	CHROME PLATED, LEVER HANDLE, PISTON TYPE 1.0 GPF	

LAVATORY SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
L 1	INTEGRAL TO COUNTERTOP BY OTHERS	PROVIDE TRIM AND FAUCET (1 FAUCET)	1.25 INCH WASTE 4 INCH CENTER SET	SEE NOTES FOR TRIM AND FAUCET	1,2,3
L 2	INTEGRAL TO COUNTERTOP BY OTHERS	PROVIDE TRIM AND FAUCET (2 FAUCETS)	1.25 INCH WASTE 4 INCH CENTER SET	SEE NOTES FOR TRIM AND FAUCET	1,2,3
NOTES	MODEL	DESCRIPTION	CONNECTIONS	REMARK	
1	ZURN Z81104-XL	FAUCET, LOW SPOUT WRIST BLADE	0.5 INCH COLD/HOT WATER	WITH 0.5 GPM MALE OUTLET, 1-1/4" OFFSET HANDICAP GRID DRAIN, CERAMIC DISK CARTRIDGE CHROME FINISH, 4" WRIST BLADE HANDLES	
2	PROVIDE: Z8400-PC PTRAP, W/CLEAN-OUT				
3	ZURN Z8946-3	PIPE PROTECTOR	PVC STRAP	COMBINATION KIT: (1) TRAP, (2) STOP SUPPLY PROTECTORS AND (1) OFFSET DRAIN PROTECTOR	

SINK SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
S 1	ELKAY LR2222	SINGLE BOWL SINK	22"Lx22"D OVERALL 3-1/2" DRAIN 7 1/2" DEEP	#18 GAUGE 304 STAINLESS STEEL THREE HOLE, 8 INCH CENTER SET WITH STRAINER	1,2,
S 2	ELKAY LR1720	SINGLE BOWL SINK	17"L x 20"D OVERALL 3 -1/2" DRAIN 7-5/8" DEEP	#18 GAUGE STAINLESS STEEL THREE HOLE, 8 INCH CENTER SET WITH STRAINER	1,2
NOTES	MODEL	DESCRIPTION	CONNECTIONS	REMARK	
1	B1310LF	FAUCET, SINK	0.5 INCH COLD/HOT WATER	MFG: DELTA, SINGLE HANDLE CHROME FINISH	
2	PROVIDE: Z8743 DRAIN, Z8400-PC PTRAP, W/CLEAN-OUT				

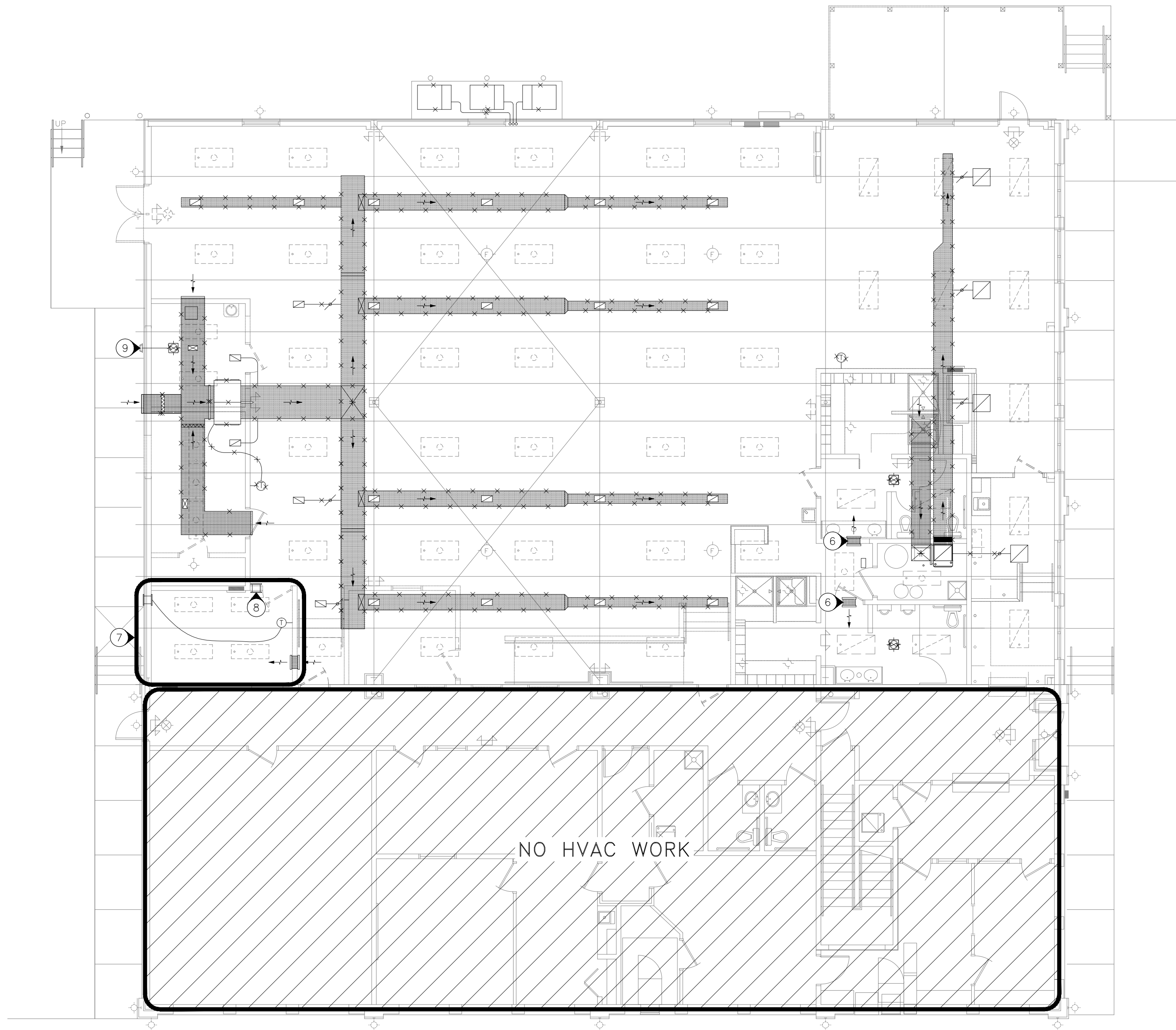
SHOWER FIXTURE SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	NOTES
SH 1	FREEDOM SHOWERS APF6238BF5P	ADA SHOWER 5 PIECE CENTER DRAIN	2" CONNECTION	GELCOAT/FIBERGLASS WITH PLYWOOD BACKING WHITE FINISH, 62.625"L X 38.25"W X 79"H	1,2,3 4,5,6
NOTES	MODEL	DESCRIPTION	CONNECTIONS	REMARK	
1	8370	SHOWER VALVE	0.5 INCH WATER CONNECTIONS	MANUFACTURER: MOEN SINGLE HANDLE PRESSURE BALANCE	
2	USES CARTRIDGE PART NUMBER: 1222, POSI-TEMP, INCLUDES: 0.5 INCH CC CONNECTIONS ADJUSTABLE TEMPERATURE LIMIT STOP TO RESTRICT THE HANDLE TRAVEL, VANDAL RESISTANT SCREWS				
3	INCLUDES: INTEGRAL STOPS, CHROME PLATED ESCUTCHEON, PRESSURE BALANCED MIXING VALVE,				
4	PROVIDE WITH MOEN 3669EP HANDSHOWER, HOSE AND SLIDE BAR, INCLUDE CHROME DROP ELL				
5	PROVIDE WITH (2) GRAB BARS, CURTAIN AND ROD AND BRASS DRAIN				
6	INSTALL CONTROL VALVE AT 45 INCHES ABOVE FINISHED SHOWER FLOOR TO CENTER OF VALVE HANDLE				

VALVE SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARK	
WHA 1	SIoux CHIEF 652-AS	WATER HAMMER ARRESTER	VARIOUS 1/2"-2" SWEAT	WATER HAMMER ARRESTOR (AIR CUSHION)	
IMB 1	SIoux CHIEF 696-1010MF	VALVE, ICE MAKER OUTLET BOX	0.5" MPT-FSWT	VALVE: ICE MAKER OUTLET BOX WITH BALL VALVE AND AIR CUSHION HAMMER ARRESTER.	

DRAIN WASTE AND VENT SCHEDULE					
TAG	MODEL	DESCRIPTION	CONNECTIONS	REMARKS	NOTES
FD 1	JAY R SMITH 2005Y-A	CAST IRON FLOOR DRAIN	SEE PLANS FOR PIPE SIZE	PROVIDE WITH NO-HUB CONNECTION ROUND NICKEL-BRONZE STRAINER TOP	1
WCO 1	JAY R SMITH 4472T	WALL C.O. PLUG AND S.S. COVER		ROUND STAINLESS STEEL WALL ACCESS COVER WITH SECURING SCREW AND BRONZE SLOT PLUG	
FCO 1	JAY R SMITH 4020S	FLOOR CLEANOUT	SEE PLANS FOR PIPE SIZE	CAST IRON BODY, NICKEL BRONZE TOP (ROUND), NO-HUB CONNECTION, ABS PLUG, CAST IRON BODY FLANGE AS REQUIRED.	
NOTES	1 PROVIDE WITH PROVENT TRAP GUARD, OR EQUIVALENT				

HOT WATER CIRCULATION PUMP SCHEDULE					
TAG	MFG/MODEL	DESCRIPTION	CONNECTIONS	REMARK	
CP 1	NBF-12U	CIRC. PUMP	UNION	MFG: BELL & GOSSETT PROVIDE WITH TC-1 AUTOMATIC TIMER KIT	

WATER PRESSURE BOOSTER PACKAGE SCHEDULE					
TAG	MFG/MODEL	DESCRIPTION	CONNECTIONS	REMARK	
PB 1	AMTROL RP-10	PUMP AND STORAGE TANK	1.25" INLET 1" OUTLET 1/2 HP, 115VAC	SEE SHEET P601 PIPING DETAIL AND REFERENCE MANUFACTURER'S INSTALLATION INSTRUCTIONS	



1

MECHANICAL HVAC DEMOLITION PLAN

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

HVAC LEGEND

- EXISTING HVAC MATERIALS TO BE REMOVED
——— EXISTING TO REMAIN

NOTES

INDICATES KEYED NOTES

1 REFERENCE SHEET M102 FOR GENERAL NOTES.

DEMOLITION NOTES

INDICATES KEYED NOTES

- 2 DEMOLITION DRAWINGS AND PLANS ARE FROM FIELD TAKE-OFF AND ORIGINAL DRAWINGS. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY PRIOR TO BIDDING AND CONSTRUCTION.
- 3 COVER ALL OPENINGS INTO THE BUILDING FROM THE WORK AREA. INSURE DEBRIS IS REMOVED FROM THE CONSTRUCTION AND DEMOLITION AREA AND AIR BORN DEBRIS IS NOT ALLOWED TO TRAVEL TO THE REMAINDER OF THE BUILDING. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL DEMOLISHED MATERIAL.
- 4 COORDINATE WITH EXISTING SYSTEMS WHICH SHALL REMAIN IN OPERATION DURING DEMOLITION AND CONSTRUCTION PHASES. INSTALL TEMPORARY CAPS AT TERMINATION POINTS OF EXISTING DUCTWORK TO REMAIN DURING DEMOLITION PHASES.
- 5 REMOVE AND DISPOSE OF ALL EQUIPMENT, DUCTWORK, AIR DEVICES, PIPES AND CONTROLS EXCEPT AS NOTED.
- 6 REMOVE TRANSFER GRILLES AND RETAIN FOR USE IN NEW CONSTRUCTION. CLEAN GRILLES AND TRANSFER DUCT PRIOR TO REINSTALLING.
- 7 EQUIPMENT IN THIS ROOM TO REMAIN FOR USE IN NEW CONSTRUCTION. VERIFY EQUIPMENT IS OPERATING CORRECTLY PRIOR TO DEMOLITION ACTIVITIES. COVER ALL MATERIALS TO PROTECT FROM CONSTRUCTION DUST AND DEBRIS. CLEAN AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE AND VERIFY EQUIPMENT IS OPERATING CORRECTLY.
- 8 REMOVE AND DISPOSE OF EXHAUST FAN AND ALL ASSOCIATED CONTROLS.
- 9 REMOVE AND DISPOSE OF EXHAUST FAN AND DUCT. RETAIN WALL CAP FOR USE IN NEW CONSTRUCTION.

Midwest Engineering & Design
3100 Brown Station Rd, Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
Missouri State Certificate of Authority #201002467

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: TLS
Drawn By: TLS
Checked By: JLD

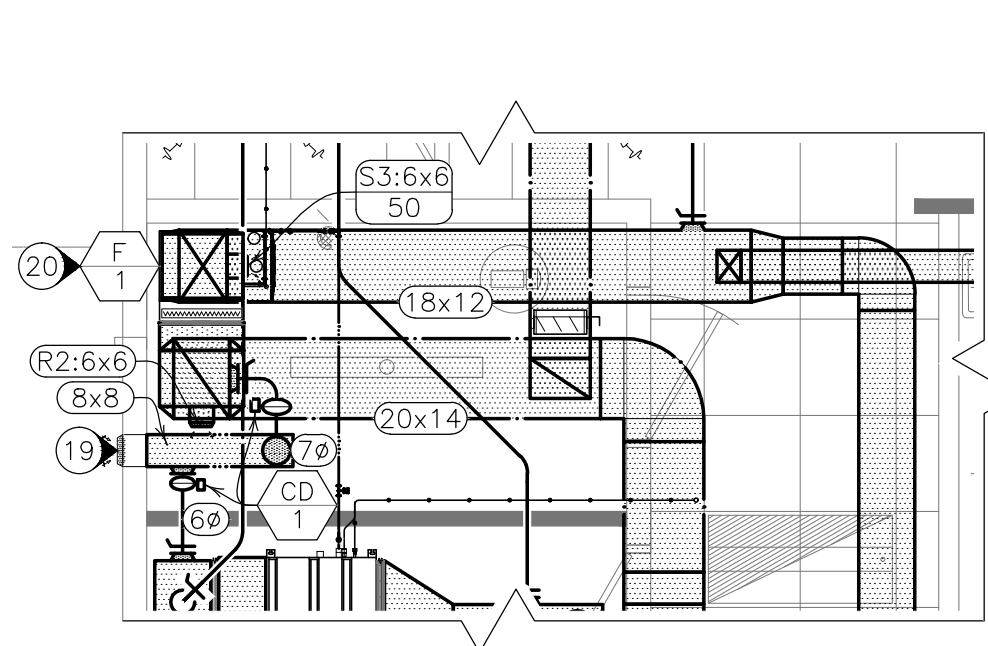
Revision	Date	No.

Scale: 3/16" = 1'-0"

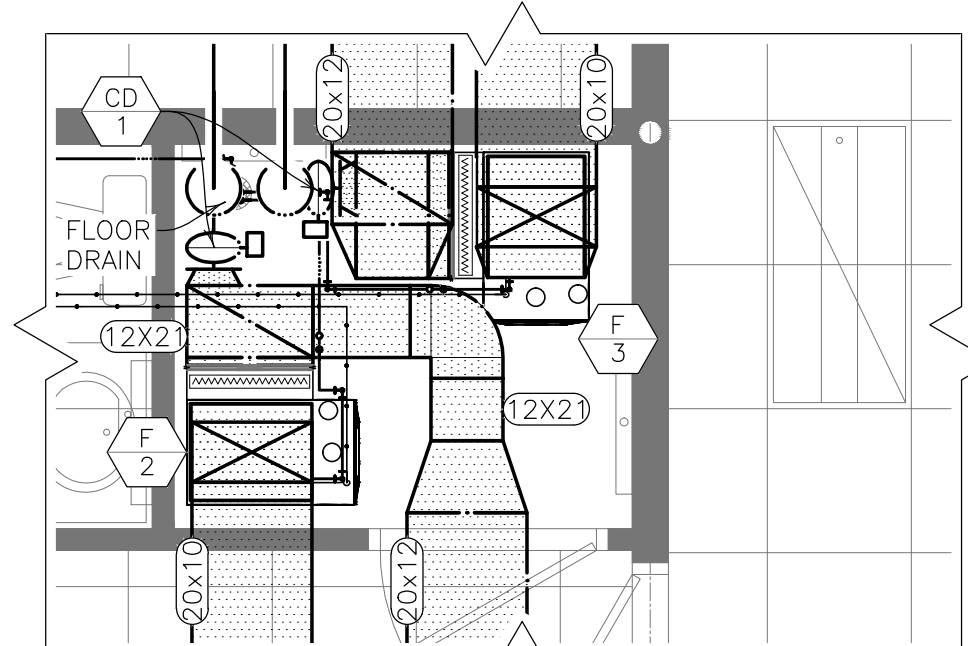
MECHANICAL
HVAC
DEMOLITION
PLAN

Date: 2021.06.01

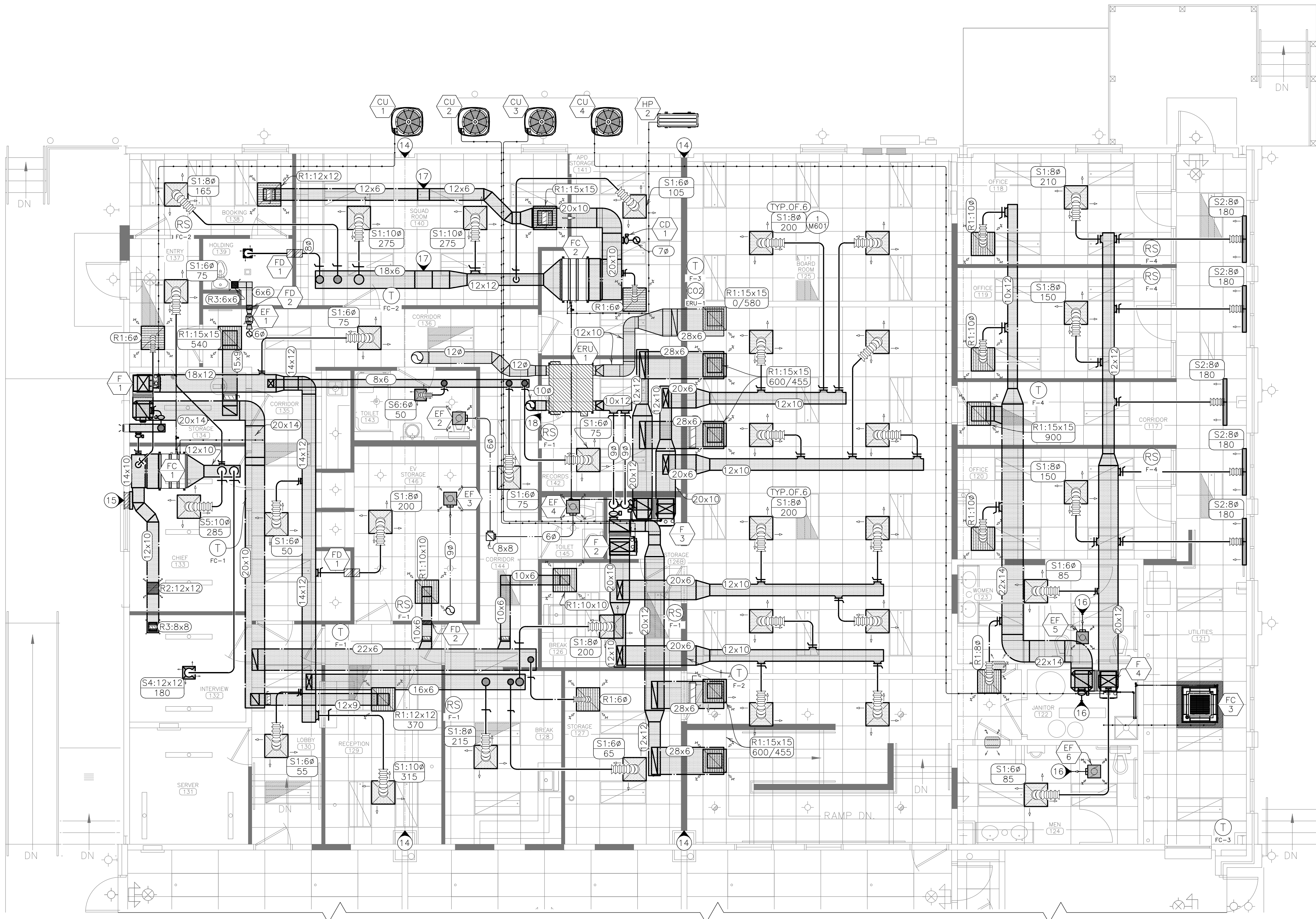
M101



1 STORAGE 134 PLAN
SCALE: 1/4"=1'-0"



2 STORAGE 126B PLAN
SCALE: 1/4"=1'-0"



3 MECHANICAL HVAC PLAN
SCALE: 3/16"=1'-0"

NOTES

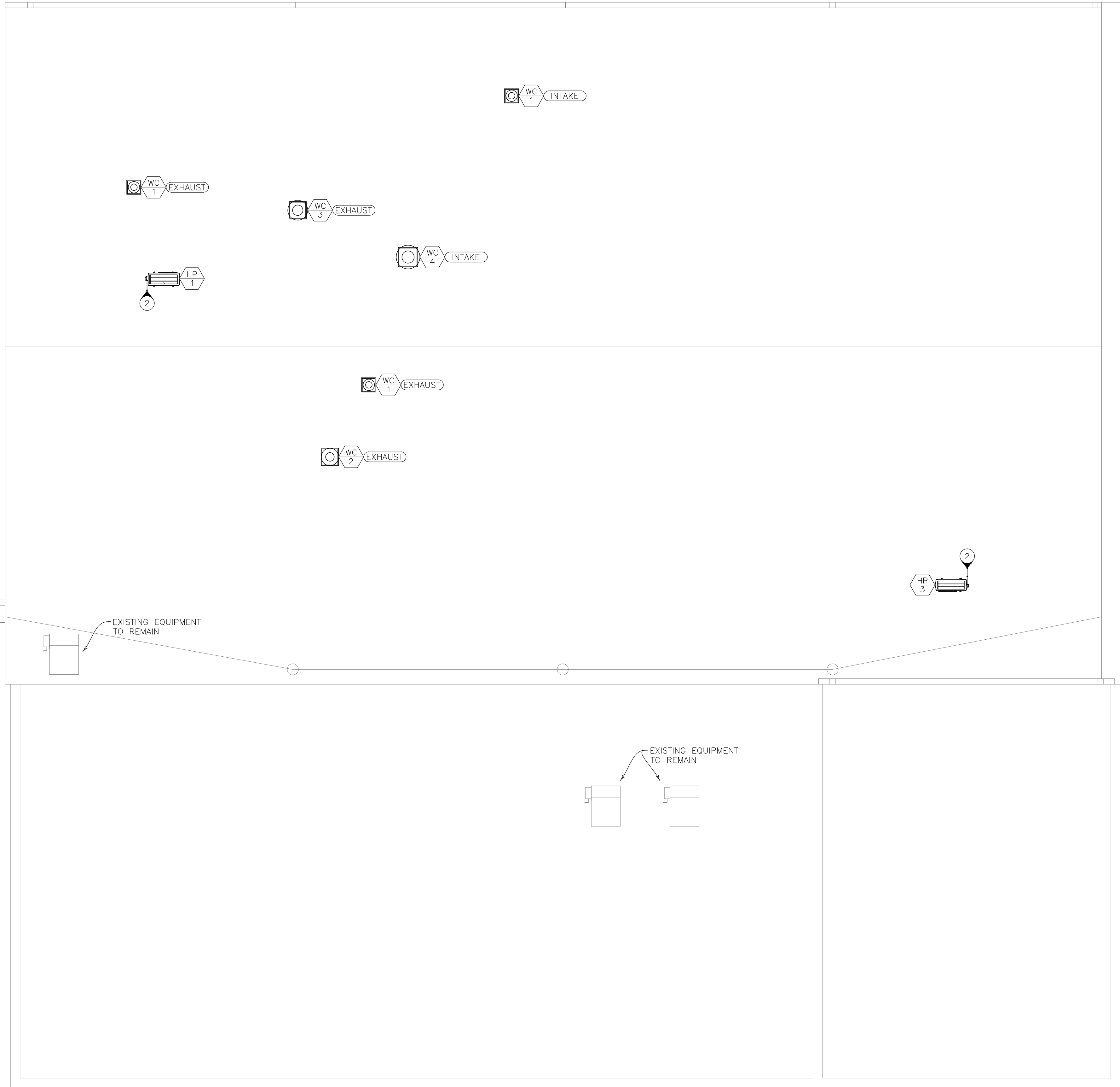
N INDICATES KEYED NOTES

- FABRICATION, INSTALLATION AND TESTING OF ALL HVAC SYSTEMS SHALL BE IN ACCORDANCE WITH THE 2012 INTERNATIONAL MECHANICAL CODE, ALL STATE AND LOCAL CODES, AND ALL MANUFACTURER INSTALLATION GUIDELINES.
- ALL METALLIC AND FLEXIBLE DUCTS SHALL BE CONSTRUCTED AND INSTALLED AS SPECIFIED IN THE IMC AND SMACNA HVAC DUCT CONSTRUCTION STANDARDS.
- DUCT HAS BEEN DESIGNED TO FIT IN THE SPACE AVAILABLE AND TO AVOID CONFLICTS. CONTRACTOR SHALL FIELD VERIFY FOR ANY UNFORESEEN CONFLICTS PRIOR TO FABRICATING DUCT. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO ENSURE ADEQUATE SPACE IS AVAILABLE FOR DUCT. IF DUCT IS ROUTED ABOVE OTHER DUCT, COORDINATE ELEVATION OF EACH DUCT PRIOR TO INSTALLATION TO ENSURE IT WILL FIT IN THE SPACE AVAILABLE. DESIGN INSULATION THICKNESS IS 1.5 INCH EXCEPT WHERE DUCT ROUTES ABOVE STRUCTURE WHERE IT IS 1 INCH THICK.
- COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL LINE VOLTAGE WIRING AND CONDUIT. MECHANICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING FOR MECHANICAL SYSTEMS. COORDINATE WITH ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUIT FOR LOW VOLTAGE WIRING.
- TEST ALL EQUIPMENT FOR PROPER OPERATION. PROVIDE OPERATION MANUALS AND AS-BUILT DRAWINGS TO OWNER WITHIN 45 DAYS OF SYSTEM ACCEPTANCE.
- THIRD PARTY, AABC OR NEBB CERTIFIED TESTING, ADJUSTING, AND BALANCING CONTRACTOR SHALL TEST AND BALANCE ALL SYSTEMS TO SPECIFIED VALUES AND PREPARE A BALANCE REPORT. REPORT SHALL BE SENT TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL COMPLETION. BALANCE DAMPERS ARE REQUIRED ON ALL SUPPLY AIR DEVICES. IF DEVICE DOES NOT HAVE DAMPER MOUNTED IN NECK PER DEVICE SCHEDULE, PROVIDE DAMPER BD-1 OR BD-2 AT BRANCH TAKE-OFF IN ACCESSIBLE LOCATION. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- ALL DUCTWORK WITH TWO DIMENSION <WxD> INDICATES RECTANGULAR DUCT. ALL <DØ> INDICATES ROUND DUCT. DIMENSIONS ARE INCHES MEASURED INSIDE. DUCT JOINTS SHALL BE CONNECTED USING DUCTMATE '25'/'35'/'45' DUCT CONNECTOR OR EQUAL. PROVIDE STANDARD TURNING VANES OR CURVED ELBOW WITH SQUARE THROAT ON RECTANGULAR DUCTS. ROUND DUCT SHALL MAINTAIN A CENTERLINE TURNING RADIUS OF 1.5 X DUCT DIAMETER. FLEXIBLE DUCT SHALL BE 5 FEET MAXIMUM LENGTH AND BE SUPPORTED TO MINIMIZE STATIC PRESSURE DROP.
- ALL INSULATION SHALL MEET THE ASTM E 84 FLAME/SMOKE SPREAD INDEX OF 25/50 MAXIMUM. DUCT SEAMS SHALL BE SEALED. INSULATION THICKNESS BELOW ARE INSTALLED VALUES:
 - SUPPLY, RETURN, AND OUTSIDE AIR DUCT LOCATED ABOVE THE CEILING: EXTERNAL INSULATION; 1.5 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R6) WITH VAPOR BARRIER.
 - SUPPLY AND RETURN DUCT ROUTED ABOVE BUILDING STRUCTURE: EXTERNAL INSULATION; 1 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R6) WITH VAPOR BARRIER. SEE ALSO NOTE 14 THIS SHEET.
 - EXHAUST DUCT: EXTERNAL INSULATION; 1 INCH THICK WITH MINIMUM THERMAL CONDUCTIVITY OF 0.25 BTU-IN/HR/SF/F (R4) WITH VAPOR BARRIER.
- PROVIDE SUITABLE SUPPORTS FOR STABILITY OF ALL HVAC DEVICES AND DUCT. AIR HANDLING EQUIPMENT SHALL BE PROVIDED WITH FLEXIBLE SUPPLY AND RETURN AIR DUCT CONNECTORS AT UNITS. HORIZONTAL UNITS SHALL BE SUPPORTED FROM THE STRUCTURE ABOVE THE UNIT.
- PROVIDE A TRAPPED CONDENSATE DRAIN PIPE FOR EVAPORATORS THAT DO NOT HAVE A CONDENSATE PUMP. CONDENSATE PIPE SHALL BE 0.75 INCH INSIDE DIAMETER SCHEDULE 40 PVC. PROVIDE 0.5 INCH THICK INSULATION PER NOTE 11 FOR ANY CONDENSATE PIPE LOCATED ABOVE THE CEILING. SLOPE IN THE DIRECTION OF DISCHARGE A MINIMUM OF 1/8" PER FOOT. COORDINATE CONDENSATE DRAIN DISCHARGE LOCATION WITH PLUMBING CONTRACTOR. SEE DETAIL 2 SHEET M601. PROVIDE CLEANOUTS WHERE NOTED ON PLANS FOR LONG CONDENSATE PIPE LENGTHS.
- INSULATE ALL REFRIGERANT PIPES WITH 0.75 INCH THICK FLEXIBLE ELASTOMERIC CELLULAR INSULATION THAT COMPLIES WITH ASTM C534 GRADE 1. THE REFRIGERANT PIPES SHALL BE SUPPORTED WITH A MAXIMUM SPAN BETWEEN HANGERS OF 5 FEET. SLOPE HORIZONTAL SECTION LINES 1 INCH PER 20 FEET TOWARD THE OUTDOOR UNIT. ALL HORIZONTAL VAPOR LINES SHALL BE LEVEL FOR HEAT PUMPS. USE LONG RADIUS ELBOWS WHEREVER POSSIBLE.
- WEATHER SEAL OUTSIDE WALL REFRIGERANT PIPE PENETRATIONS. INSTALL ALUMINUM JACKET TO ANY EXTERIOR REFRIGERATE PIPE THAT IS EXPOSED TO OUTDOOR CONDITIONS.
- ANY EXHAUST AIR DISCHARGE SHALL BE 3 FEET HIGHER THAN ANY INTAKE OPENING WITHIN 10 HORIZONTAL FEET.
- ROUTE DUCT ABOVE BEAM THAT SPANS NORTH-SOUTH ACROSS SPACE. DUCT ROUTED ABOVE STRUCTURE SHALL BE INSULATED PER NOTE 8 ONLY WHEN SPACE IS LIMITED DUE TO STRUCTURAL ELEMENTS. TRANSITION BETWEEN 1.5 INCH TO 1 INCH INSULATION SHALL BE SEALED. LIMIT USE OF 1 INCH INSULATION TO 4 INCHES BEFORE AND 4 INCHES AFTER BEAM.
- PROVIDE INSULATED SHEET METAL COVER FOR EXISTING LOUVER. INSTALL SHEET METAL ON INSIDE FACE OF LOUVER AND COVER WITH INSULATED BOX. INSULATION SHALL BE R19 FIBERGLASS BATT WITH VAPOR BARRIER. COORDINATE WITH GENERAL CONTRACTOR.
- ROUTE NEW DUCT TO EXISTING ROOF PENETRATION. USE EXISTING ROOF CAP. CLEAN CAP AND ANY EXISTING DUCT USED FOR NEW CONSTRUCTION.
- TRANSITION DUCT UP TO ROUTE ABOVE STRUCTURE. PROVIDE 30-45° TRANSITION ANGLE.
- COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE A 1 INCH DOOR UNDERCUT FOR RETURN.
- USE EXISTING WALL CAP FOR OUTDOOR AIR INTAKE. CLEAN WALL CAP AND ALL ASSOCIATED COMPONENTS. REPLACE PEST SCREEN IF NEEDED. RELOCATE OR REPLACE BACKDRAFT DAMPER FOR USE IN INTAKE APPLICATION.
- ROUTE SUPPLY AND RETURN DUCT THROUGH MEZZANINE FLOOR. SUPPLY AND RETURN GRILLES SHALL BE INSTALLED ON VERTICAL DUCT LOCATED INSIDE STORAGE 134.

HVAC LEGEND

	THERMOSTAT WITH EQUIPMENT LABEL
	REMOTE SENSOR WITH EQUIPMENT LABEL
	DIRECTION OF FLOW
	DEVICE SCHEDULE TAG
	DETAIL REFERENCE, NUMBER/SHEET
	SUPPLY AIR DEVICE: SIZE (INCHES)/CFM
	RETURN AIR DEVICE: SIZE (INCHES)
	DUCT SIZE-RECTANGULAR (INCHES X INCHES)
	DUCT SIZE-ROUND (INCHES DIAMETER)
	AIR FLOW (CUBIC FEET PER MINUTE)

	TYPICAL OF 2 LIKE DEVICES THIS GROUP
	HVAC EQUIPMENT
	SUPPLY AIR
	RETURN AIR
	EXHAUST AIR
	OUTSIDE AIR
	REFRIGERANT PIPE
	CONDENSATE DRAIN PIPE
	EXISTING TO REMAIN
	DUCT TAKEOFF AND CONTROL DAMPER
	DUCT TAKEOFF AND BALANCE DAMPER
	RECTANGULAR BALANCE DAMPER



1 MECHANICAL HVAC ROOF PLAN
SCALE: 3/16"=1'-0"

NOTES

N INDICATES KEYED NOTES

- 1 REFERENCE SHEET M102 FOR GENERAL NOTES.
- 2 PENETRATE ROOF NEAR HEAT PUMP TO MINIMIZED EXPOSED PIPE ON THE ROOF. PROVIDE EPDM OR SILICONE MULTIPORT PIPE ROOF FLASHING TO SEAL ROOF PENETRATION.
- 3 ROUTE FURNACE FLUE AND COMBUSTION PIPE TO ROOF. INSTALL CONCENTRIC VENT TERMINATION KIT PROVIDED BY MANUFACTURER.

HVAC LEGEND		
	DEVICE SCHEDULE TAG	
	HVAC EQUIPMENT	
	REFRIGERANT PIPE	

Midwest Engineering & Design
3100 Brown Station Rd, Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
Missouri State Certificate of Authority #2010032467

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: **TLB**
Drawn By: **TLB**
Checked By: **JLD**

Revision	Date	No.

Scale: 3/16" = 1'-0"

**MECHANICAL
HVAC ROOF
PLAN**

Date: 2021.06.01

M103

ABBREVIATION LEGEND	
TC	TOTAL CAPACITY
SC	SENSIBLE CAPACITY
ESP	EXTERNAL STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE
SHF	SENSIBLE HEAT FACTOR
OA	OUTDOOR AIR

SEQUENCE OF OPERATION

- FORCED AIR HVAC EQUIPMENT SHALL OPERATE CONTINUOUSLY DURING OCCUPIED TIME PERIODS DELIVERING THE SPECIFIED OUTSIDE AIR FLOW WHILE MAINTAINING ROOM TEMPERATURE SETPOINT. THE UNITS SHALL RUN INTERMITTENTLY TO MAINTAIN THE UNOCCUPIED TIME PERIOD ROOM TEMPERATURE SETPOINT. OUTDOOR AIR DAMPERS ARE TO BE CLOSED DURING UNOCCUPIED TIME PERIODS UNLESS A CALL TO OVERRIDE.
- OUTDOOR AIR DAMPERS SHALL BE CONTROLLED BY A 24 VAC SIGNAL FROM THE THERMOSTAT CONTROLLING THE ASSOCIATED FURNACE OR FAN COIL UNIT.
- ENERGY RECOVERY UNIT ERU-1 SHALL OPERATE THROUGH A WALL MOUNTED CONTROLLER FOR SCHEDULING PURPOSES. IF ERU-1 IS SCHEDULED TO OPERATE, A WALL MOUNTED CO2 SENSOR SHALL SEND A 0-10 VDC SIGNAL TO CHANGE FAN SPEED BASED ON CO2 LEVELS IN THE SPACE. OUTDOOR AIR DAMPERS FOR FURNACES F-2 AND F-3 SHALL OPEN WHEN ERU-1 IS OPERATING.
- REFERENCE SCHEDULE FOR EXHAUST FAN CONTROL REQUIREMENTS. COORDINATE WITH ELECTRICAL CONTRACTOR.
- TEST AND PROGRAM ALL THERMOSTATS FOR PROPER OPERATION. PROVIDE LABEL TO INDICATE EQUIPMENT CONTROLLED BY THERMOSTAT. INSTRUCT OWNER IN THE PROPER USE OF THERMOSTATS AND REMOTE CONTROL OPTIONS THROUGH WEB BROWSER INTERFACE.

AIR DEVICE SCHEDULE					
TAG	MODEL	DESC.	STYLE	REMARK	NOTES
S1	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 24x24 MODULE; 24x24 FACE LAY-IN MOUNT	1,2 7
S2	TBD13100	SUPPLY	EXTRUDED ALUMINUM LINEAR SLOT DIFFUSER	COATED STEEL PLENUM; 2 SLOT 1" WIDTH; 2 ADJUSTABLE PATTERN CONTROLLERS; LAY-IN MOUNT	1,3 7
S3	520D	SUPPLY W/DAMPER	STEEL LOUVERED GRILLE	DOUBLE DEFLECTION; FRONT BLADES PARALLEL TO SHORT DIMENSION; SURFACE MOUNT	1,4 7
S4	MSRRCD	SUPPLY MAX SECURITY	STEEL, WHITE, SQUARE LOUVERED DIFFUSER	DIRECTIONAL PATTERN; 12 GAUGE STEEL FACE & SLEEVE; 35° DEFLECTION; SURFACE MOUNT	1,5 7
S5	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 24x24 MODULE; 24x24 FACE SURFACE MOUNT	1,6 7
S6	SPD	SUPPLY	STEEL, WHITE, SQUARE PLAQUE DIFFUSER	RADIAL PATTERN; 12x12 MODULE; 12x12 FACE SURFACE MOUNT	1,6 7
R1	PDDR	RETURN	STEEL, WHITE PERFORATED GRILLE	FLUSH FACE; 24x24 MODULE; 24x24 FACE LAY-IN MOUNT	7 7
R2	535D	RETURN W/DAMPER	STEEL, WHITE LOUVERED GRILLE	FIXED BLADES; 45° DEFLECTION; 1/2" BLADE SPACING; SURFACE MOUNT	1,4 7
R3	MSBL	RETURN SECURITY	STEEL, WHITE LOUVERED GRILLE	14 GAUGE FIXED BLADES; 45° DEFLECTION; 3/8" BLADE SPACING; SURFACE MOUNT	1,5 7
WC1	WCC06	7 INCH INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, BACKDRAFT DAMPER, INSULATED 12" CURB	8
WC2	WCC08	9 INCH INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, BACKDRAFT DAMPER, INSULATED 12" CURB	8
WC3	WCC10	11 IN INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, BACKDRAFT DAMPER, INSULATED 12" CURB	8
WC4	WCC12	13 IN INLET DIAMETER	WEATHER CAP INTAKE OR EXHAUST	ROOF MOUNTED, SPUN ALUMINUM. PROVIDE INSECT SCREEN, BACKDRAFT DAMPER, INSULATED 12" CURB	8
NOTES					
1 MANUFACTURER: PRICE, SEE PLAN FOR SIZE					
2 PROVIDE INSULATED BACKPAN: 1/2 INCH FIBERGLASS WITH VAPOR BARRIER					
3 PROVIDE CENTER NOTCH TO STRADDLE TEE GRID & INSULATED PLENUM					
4 PROVIDE OPPOSED BLADE DAMPER THAT IS OPERABLE FROM GRILLE FACE					
5 PROVIDE COUNTERSUNK HOLES WITH TAMPER-PROOF SCREWS					
6 PROVIDE SURFACE MOUNT ADAPTOR FRAME SPF					
7 PROVIDE BALANCE DAMPER BD-1 OR BD-2 AT BRANCH TAKE OFF TO DIFFUSER. SEE DAMPER SCHEDULE.					
8 MANUFACTURER: PENNBARRY; REFERENCE PLANS FOR INTAKE OR EXHAUST APPLICATION					

DAMPER SCHEDULE					
TAG	MFG/MODEL	DIMENSIONS	DESCRIPTION	SPECIFICATION	NOTES
BD 1	POTTORFF CD-10R	SEE PLANS FOR DUCT SIZE	BALANCE DAMPER ROUND	6 INCH WIDE, 22 GA GALVANIZED STEEL FRAME; SINGLE 22 GA GALVANIZED BLADE WITH CONTROL SHAFT & MANUAL LOCKING QUADRANT	1
BD 2	POTTORFF CD-10	SEE PLANS FOR DUCT SIZE	BALANCE DAMPER RECTANGULAR	2 INCH WIDE, 22 GA GALVANIZED STEEL FRAME; SINGLE 22 GA GALVANIZED BLADE WITH CONTROL SHAFT & MANUAL LOCKING QUADRANT	1
CD 1	POTTORFF CD-25R	SEE PLANS FOR DUCT SIZE	CONTROL DAMPER WITH FRAME	FRAME: 12"x20" GAGE GALVANIZED STEEL; BLADES: 14 GAGE; BLADE SEALS: POLYETHYLENE; BEARINGS: SYNTHETIC. CONCEALED LINKAGE	2 3
NOTES					
1 PROVIDE QUADRANT STANDOFF BRACKET FOR 1.5 INCH INSULATION					
2 PROVIDE ACTUATOR STANDOFF BRACKET FOR 1.5 INCH INSULATION					
3 PROVIDE BELIMO TF24-US ACTUATOR: ON/OFF, SPRING RETURN FAILSAFE, 24V; POWER OPEN/SPRING CLOSE					

FIRE DAMPER SCHEDULE				
TAG	MFG/MODEL	DESCRIPTION	SPECIFICATION	NOTES
FD 1	POTTORFF FD-125R	1.5 HR STATIC FIRE DAMPER ROUND BLADE SIZE TO MATCH DUCT	INTEGRAL 16 INCH X 20 GAUGE GALVANIZED STEEL 1 SLEEVE; INSTALLED VERTICAL OR HORIZONTAL; 14 GAUGE BLADE; FUSIBLE LINK 165°F	1
FD 2	POTTORFF VFD-10D-B	1.5 HR DYNAMIC FIRE DAMPER CURTAIN STYLE BLADE SIZE TO MATCH DUCT	OUT OF AIRSTREAM CURTAIN; INSTALLED VERTICAL OR HORIZONTAL; GALVANIZED STEEL 22 GAUGE FRAME & 24 GAUGE BLADE; FUSIBLE LINK 165°F	2
NOTES				
1 PROVIDE MOUNTING PLATE				
2 PROVIDE RETAINING ANGLE SYSTEM (20 GAUGE)				

HVAC CONTROLS SCHEDULE					
TAG	MFG/MODEL	DESC.	CONNECTIONS	SPECIFICATION	NOTES
T	HONEYWELL TH8321	7-DAY PROGRAMMABLE COMMERCIAL THERMOSTAT WITH HUMIDITY SENSOR TOUCHSCREEN		CONVENTIONAL OR HEAT PUMP. PROVIDES OCCUPIED/UNOCCUPIED SCHEDULES, STAGES 3 HEAT/2 COOL, OA DAMPER CONTROL	1,2 3,4 5
NOTES					
1 INSTALL 60 INCHES ABOVE FINISH FLOOR					
2 PROVIDE REMOTE SENSORS FOR AVERAGING. LOCATE AS SHOWN ON PLANS.					
3 PROVIDE FOR F-1, F-2, F-3, AND F-4. REFERENCE MINI-SPLIT SCHEDULE FOR FC CONTROLLER					
4 PROGRAM TO PROVIDE DEHUMIDIFICATION CONTROL WITH LOW FAN SPEED					
5 COORDINATE WITH OWNER FOR REMOTE CONNECTIVITY AND CONTROL					

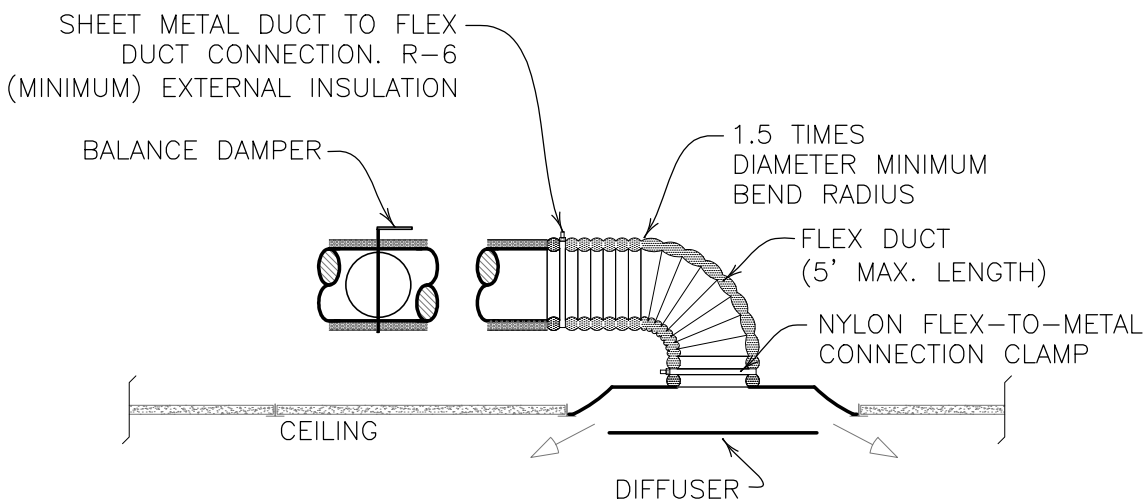
	CONDENSING UNIT SCHEDULE							
TAG	MFG/MODEL	DESCRIPTION	SEER/EER	NET COOLING CAPACITY	ELECTRICAL REQUIREMENTS	REFRIGERANT LINE SIZE	WEIGHT	NOTES
CU 1	TRANE 4TTR7048B1	4 TON 2 STAGE	16 SEER 12.5 EER	TC: 44.75 MBh SC: 33.04 MBh EAT: 74/62°F	240/60/1 28 MCA 45 MOP	7/8" GAS LINE 3/8" LIQUID LINE	308 LBS	1 2
CU 2	TRANE 4TTR7036A1	3 TON 2 STAGE	16.5 SEER 12.5 EER	TC: 33.62 MBh SC: 26.25 MBh EAT: 74/62°F	240/60/1 24 MCA 35 MOP	3/4" GAS LINE 3/8" LIQUID LINE	283 LBS	1 2
CU 3	TRANE 4TTR7036A1	3 TON 2 STAGE	16.5 SEER 12.5 EER	TC: 33.62 MBh SC: 26.25 MBh EAT: 74/62°F	240/60/1 24 MCA 35 MOP	3/4" GAS LINE 3/8" LIQUID LINE	283 LBS	1 2
CU 4	TRANE 4TTR7048B1	4 TON 2 STAGE	16 SEER 12.5 EER	TC: 45.5 MBh SC: 35.02 MBh EAT: 74/62°F	240/60/1 28 MCA 45 MOP	7/8" GAS LINE 3/8" LIQUID LINE	308 LBS	1 2
NOTES								
1	PROVIDE LIQUID LINE DRYER, SIGHT GLASS, INSULATED SUCTION LINE, LOW AMBIENT CONTROLS, LOUVERED COIL GUARD							
2	PROVIDE COMPRESSOR START TIMER TO ENSURE COMPRESSORS FOR ALL SYSTEMS DO NOT START AT THE SAME TIME							

FURNACE SCHEDULE								
TAG	MFG/ MODEL	DESCRIPTION	SUPPLY/OUTSIDE AIRFLOW	HEATING CAPACITY	ELECTRICAL REQUIREMENTS	NATURAL GAS REQUIREMENTS	EVAPORATOR	NOTES
F 1	TRANE S9V2B080 U4PSB	96% AFUE 2 STAGE GAS	SUPPLY: 1425 CFM ESP: 0.75 IN WG OA: 120 CFM	LOW HEAT: 50.44 MBh HIGH HEAT: 77.6 MBh EAT: 65°F	120/60/1 10.8 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU48BS3 UPFLOW	1 2
F 2	TRANE S9V2B040 U3PS	97.6% AFUE 2 STAGE GAS	SUPPLY: 1200 CFM ESP: 0.75 IN WG OA: 290 CFM	LOW HEAT: 25.22 MBh HIGH HEAT: 38.8 MBh EAT: 65°F	120/60/1 7.9 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU42BS3 UPFLOW	1 2
F 3	TRANE S9V2B040 U3PS	97.6% AFUE 2 STAGE GAS	SUPPLY: 1200 CFM ESP: 0.75 IN WG OA: 290 CFM	LOW HEAT: 25.22 MBh HIGH HEAT: 38.8 MBh EAT: 65°F	120/60/1 7.9 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU42BS3 UPFLOW	1 2
F 4	TRANE S9V2B080 U4PSB	96% AFUE 2 STAGE GAS	SUPPLY: 1580 CFM ESP: 0.75 IN WG OA: 150 CFM	LOW HEAT: 50.44 MBh HIGH HEAT: 77.6 MBh EAT: 65°F	120/60/1 10.8 MCA 15 MOP	1-5/8" NPT 3" DIA. VENT	4PXCBU48BS3 UPFLOW	1 2
NOTES								
1	PROVIDE FACTORY FABRICATED EXTERNAL FILTER RACK WITH 2 INCH MERV 13 FILTERS; CONCENTRIC VENT TERMINATION KIT							
2	PROVIDE AUTO CLEANING NEEDLEPOINT BIPOLAR IONIZATION SYSTEM WITH OPERATION STATUS LED & BAS ALARM CONTACTS, MUST BE UL 867 COMPLIANT							

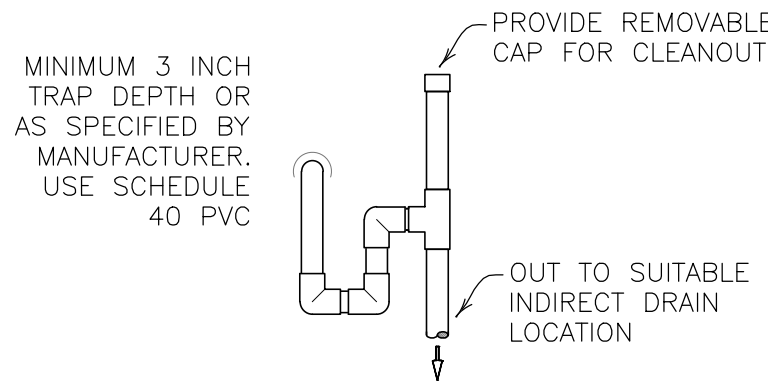
	MINI SPLIT SCHEDULE							
TAG	MFG/ MODEL	DESCRIPTION	AIRFLOW (CFM) EFFICIENCY	COOLING CAPACITY HEATING CAPACITY	ELECTRICAL REQUIREMENTS	REFRIGERANT LINE SIZE	SOUND PRESSURE LEVEL WEIGHT	NOTES
FC 1	MITSUBISHI PEAD— A18AA7	INDOOR UNIT DUCTED	DRY:600-512-424 CFM WET:540-461-382 CFM 18.9 SEER/12.8 EER	COOL: 9.32-18 MBH SHF: 0.78 ESP: 0.6 IN WG	POWER PROVIDED BY OUTDOOR UNIT FIELD-SUPPLIED WIRING	1/2" SUCTION LINE 1/4" LIQUID LINE	37-33-30 dB(A) 62 LBS	1 3 5,6
HP 1	MITSUBISHI SUZ— KA18NAHZ	OUTDOOR UNIT	3.3COP @ 47F 2.48 COP @ 17F 10.8 HSPF	HEAT: 21.6 MBH @ 47F HEAT: 21.6 MBH @ 17F HEAT: 21.6 MBH @ 5F	208/230V 1 PHASE 17 MCA 31 MOP	1/2" SUCTION LINE 1/4" LIQUID LINE	55 dB(A) 131 LBS	2 7
FC 2	MITSUBISHI PEAD— A30AA7	INDOOR UNIT DUCTED	DRY:618-742-883 CFM WET:578-702-843 CFM 18 SEER/12.5 EER	COOL: 18-30 MBH SHF: 0.67 ESP: 0.6 IN WG	POWER PROVIDED BY OUTDOOR UNIT FIELD-SUPPLIED WIRING	5/8" GAS LINE 3/8" LIQUID LINE	30-34-39 dB(A) 69 LBS	1 3 5,6
HP 2	MITSUBISHI PUZ— HA30NKA	OUTDOOR UNIT	3.4 COP @ 47F 2.1 COP @ 17F 9.6 HSPF	HEAT: 34 MBH @ 47F HEAT: 32 MBH @ 17F HEAT: 32 MBH @ 5F	208/230V 1 PHASE 24 MCA 40 MOP	5/8" GAS LINE 3/8" LIQUID LINE	53 dB(A) 261 LBS	2 7
FC 3	MITSUBISHI PLA— A18EA7	INDOOR UNIT CEILING CASSETTE	DRY:460-570-600 CFM WET:420-530-560 CFM 24.6 SEER/14.4 EER	COOL: 8-18 MBH SHF: 0.85	POWER PROVIDED BY OUTDOOR UNIT FIELD-SUPPLIED WIRING	1/2" SUCTION LINE 1/4" LIQUID LINE	29-31-32 dB(A) 68 LBS	1 4 5,6
HP 3	MITSUBISHI PUZ— A18NKA7	OUTDOOR UNIT	4.28 COP @ 47F 2.47 COP @ 17F 11 HSPF	HEAT: 19 MBH @ 47F HEAT: 11 MBH @ 17F 28 MOP	208/230V 1 PHASE 11 MCA 28 MOP	1/2" SUCTION LINE 1/4" LIQUID LINE	46 dB(A) 112 LBS	2 7
NOTES								
1	PROVIDE PAR-40MAAU PROGRAMMABLE REMOTE CONTROLLER							
2	PROVIDE FIX-IT-FOOT ROOFTOP MOUNTING RAILS BY RECTORSEAL OR EQUAL; ADVANCED WIND BAFFLES FOR LOW AMBIENT OPERATION							
3	INCLUDES CONDENSATE PUMP; PROVIDE DRAIN PAN OVERFLOW SWITCH & FILTER BOX WITH MERV 13 FILTERS							
4	PROVIDE INSTALLATION TRIM PANEL; INCLUDES CONDENSATE PUMP							
5	PROVIDE AUTO CLEANING NEEDLEPOINT BIPOLAR IONIZATION SYSTEM WITH OPERATION STATUS LED & BAS ALARM CONTACTS, MUST BE UL 867 COMPLIANT							
6	PROVIDE DISCONNECT ACCESSORY							
7	PROVIDE COMPRESSOR START TIMER TO ENSURE COMPRESSORS FOR ALL SYSTEMS DO NOT START AT THE SAME TIME							

ENERGY RECOVERY UNIT							
TAG	MFG/MODEL/ DESCRIPTION	AIRFLOW; EXTERNAL STATIC PRESSURE	COOLING CONDITIONS	HEATING CONDITIONS	ELECTRICAL REQUIREMENTS	WEIGHT	NOTES
ERU 1	MITSUBISHI TLGHF060	SUPPLY: 580 CFM; 0.66 IN WG EXHAUST: 580 CFM; 0.66 IN WG STATIC PLATE ENTHALPY TRANSFER	OUTSIDE: 95/76°F EXHAUST: 75/62°F SUPPLY: 83.4/69.4°F	OUTSIDE: 7/51°F EXHAUST: 70/54°F SUPPLY: 45.1°F	240/60/1 3.3 MCA 15 MOP	123 LBS	1 2
NOTES							
1 TOTAL EFFECTIVENESS: 50% SUMMER, 64% WINTER; SENSIBLE EFFECTIVENESS: 67% SUMMER, 67% WINTER							
2 PROVIDE PZ-61DR-E CONTROLLER; FACTORY MOUNTED DISCONNECT, MERV 13 FILTERS, SUPPLY AND EXHAUST MOTORIZED DAMPERS							

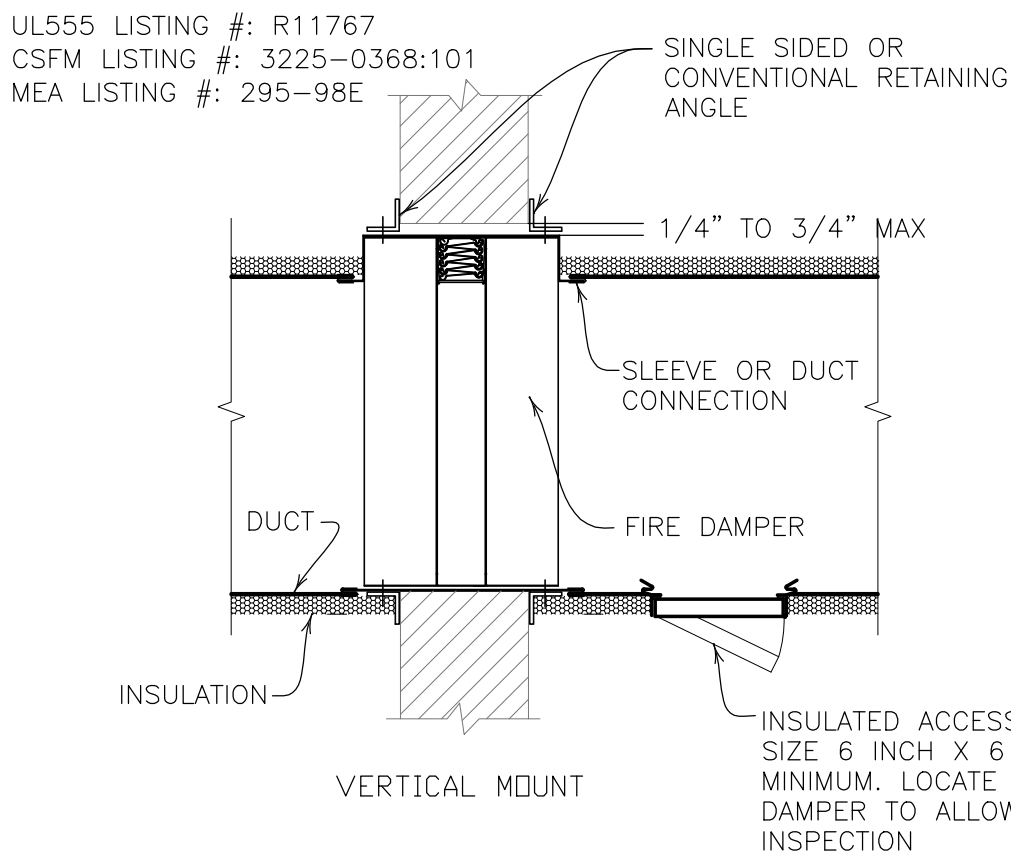
EXHAUST FAN SCHEDULE					
TAG	MFG/MODEL	DESC.	CONNECTIONS	SPECIFICATION	NOTES
EF 1	JENCO TD-100X1	INLINE DUCT EXHAUST FAN	70 CFM ESP: 0.3 IN WG 120/60/1 29 W	MOTOR: DIRECT DRIVE; FAN: ABS FAN BLADES; CASING: POLYPROPYLENE HOUSING; THERMAL OVERLOAD PROTECTION; SEALED BALL BEARINGS; AMCA SEAL; UL LISTED	1
EF 2	S&P PC110XP	CEILING MOUNTED EXHAUST FAN	90 CFM @ 0.25 IN WG SP 120/60/1 0.25 AMP/30 WATTS	STEEL HOUSING WITH WHITE POLYMERIC GRILLE; THERMALLY PROTECTED MOTOR; BUILT-IN BACKDRAFT DAMPER; 6 INCH DUCT CONNECTION; ETL LISTED; AMCA SEAL; HVI CERTIFIED	2
EF 3	PENNBARRY Z10S	CEILING MOUNTED EXHAUST FAN	240 CFM @ 0.25 IN WG SP 120/1/60 0.025 BHP	MOTOR: DIRECT DRIVE; FAN: FORWARD CURVED CENTRIFUGAL; CASING: 20 GAUGE GALVANIZED STEEL WITH WHITE POLYMERIC GRILLE; AMCA SEAL; UL LISTING	3
EF 4	S&P PC80XP	CEILING MOUNTED EXHAUST FAN	70 CFM @ 0.25 IN WG SP 120/60/1 0.25 AMP/30 WATTS	STEEL HOUSING WITH WHITE POLYMERIC GRILLE; THERMALLY PROTECTED MOTOR; BUILT-IN BACKDRAFT DAMPER; 6 INCH DUCT CONNECTION; ETL LISTED; AMCA SEAL; HVI CERTIFIED	2
EF 5	PENNBARRY Z6H	CEILING MOUNTED EXHAUST FAN	140 CFM @ 0.25 IN WG SP 120/1/60 0.022 BHP	MOTOR: DIRECT DRIVE; FAN: FORWARD CURVED CENTRIFUGAL; CASING: 20 GAUGE GALVANIZED STEEL WITH WHITE POLYMERIC GRILLE; AMCA SEAL; UL LISTING	4
EF 6	PENNBARRY Z81S	CEILING MOUNTED EXHAUST FAN	210 CFM @ 0.25 IN WG SP 120/1/60 0.024 BHP	MOTOR: DIRECT DRIVE; FAN: FORWARD CURVED CENTRIFUGAL; CASING: 20 GAUGE GALVANIZED STEEL WITH WHITE POLYMERIC GRILLE; AMCA SEAL; UL LISTING	4
NOTES					
1 PROVIDE SPEED CONTROLLER; CONTRACTOR SHALL PROVIDE VIBRATION ISOLATION MOUNTING; ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT; ENERGIZE WITH LIGHTS					
2 PROVIDE 6 INCH DUCT CONNECTOR WITH BACKDRAFT DAMPER, SPEED CONTROLLER, METAL GRILLE KIT, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT; ENERGIZE WITH LIGHTS					
3 INCLUDES BACKDRAFT DAMPER; PROVIDE SQUARE TO ROUND DUCT CONNECTOR; SPEED CONTROLLER, METAL GRILLE KIT, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT; ENERGIZE WITH WALL MOUNTED SWITCH					
4 INCLUDES BACKDRAFT DAMPER; PROVIDE SQUARE TO ROUND DUCT CONNECTOR; SPEED CONTROLLER, METAL GRILLE KIT, ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT; ENERGIZE WITH LIGHTS					



1 BRANCH DUCT AND DIFFUSER
NO SCALE



2 EVAPORATOR CONDENSATE TRAP
NO SCALE

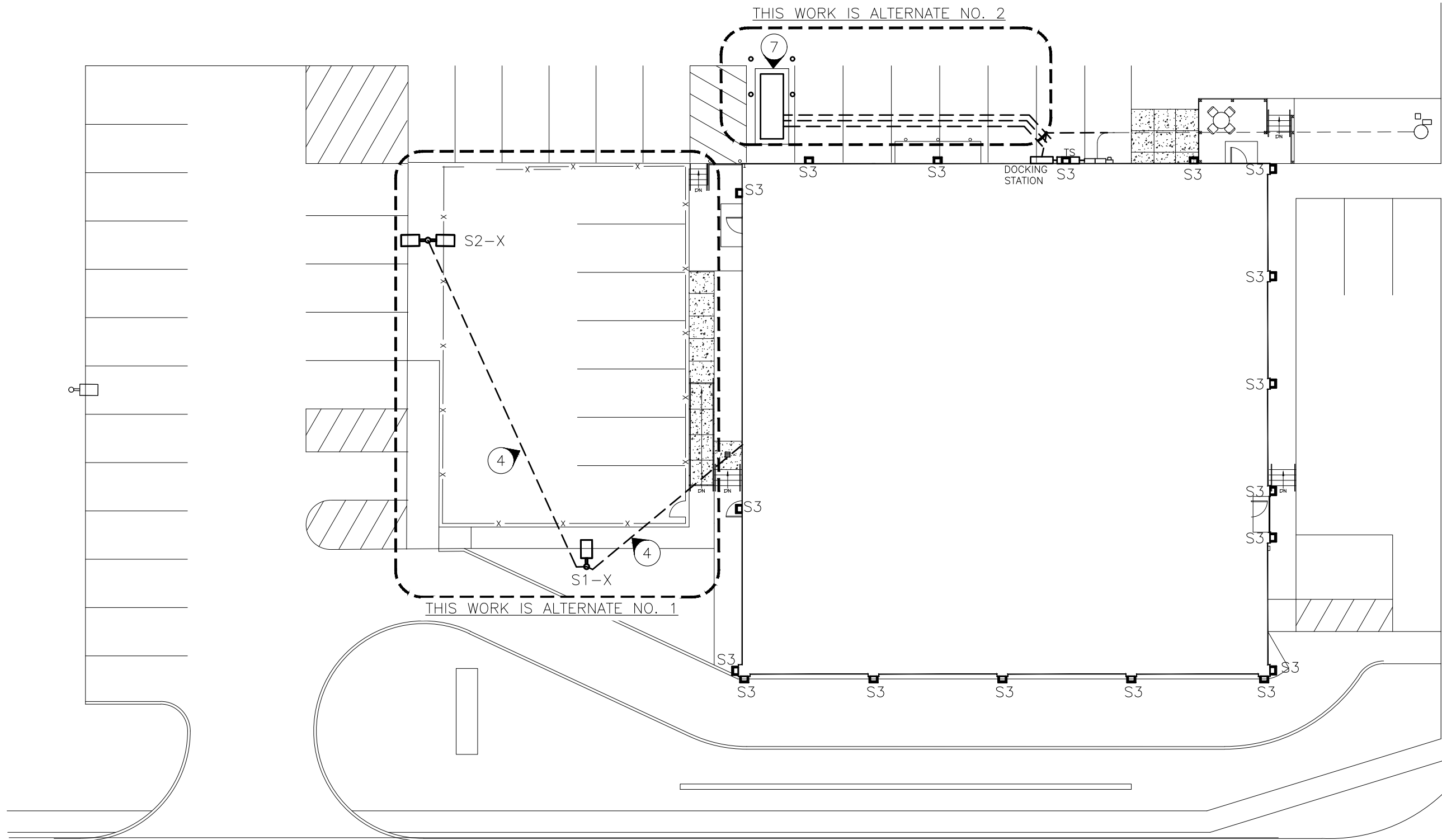


5 TYPICAL FIRE DAMPER INSTALLATION
NO SCALE

LIGHTING FIXTURE SCHEDULE										
FIXTURE DATA						LAMP DATA			REMARK	
	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MTG ①	VOLTS VA	LAMP QTY	WATTS TYPE ②		
	S1	KAD LED AREA LUMINAIRE	LITHONIA LIGHTING	KAD LED 40C 1000 40K R4 MVOLT SPD 04 DDBXD	P	120 141	1	141W LED	OR APPROVED EQUAL. (25' 4" SQUARE STEEL POLE DARK BRONZE)	
	S2	KAD LED AREA LUMINAIRE	LITHONIA LIGHTING	KAD LED 40C 1000 40K R4 MVOLT SPD 04 DDBXD	P	120 141	2	282W LED	OR APPROVED EQUAL. (25' 4" SQUARE STEEL POLE DARK BRONZE)	
	S3	TWH LED WALL LUMINAIRE	LITHONIA LIGHTING	TWH LED 10C 1000 40K T3M MVOLT DDBXD	W	120 39	1	39W LED	OR APPROVED EQUAL. REPLACE WALL LIGHTS ONE FOR ONE-SEE ARCH PLANS	
NOTE: ① MOUNTING STYLE		AC - AIRCRAFT CABLE C - COVE CH - CHAIN HUNG	G - GROUND P - PENDANT MOUNT	R - RECESSED S - SURFACE SC - SURFACE CEILING	ST - STEM U - WALL UN - UNIVERSAL					
NOTE: ② LAMP TYPE		CF - COMPACT FLUORESCENT FL - FLUORESCENT H - HALOGEN	PS - PULSE START MH - METAL HALIDE MV - MERCURY VAPOR	HPS - HIGH PRESSURE SODIUM IN - INCANDESCENT LED - LIGHT EMITTING DIODE						

FIXTURES IN SCHEDULE ARE TO BE FROM THAT MANUFACTURER OR APPROVED EQUAL

THIS WORK IS ALTERNATE NO. 1

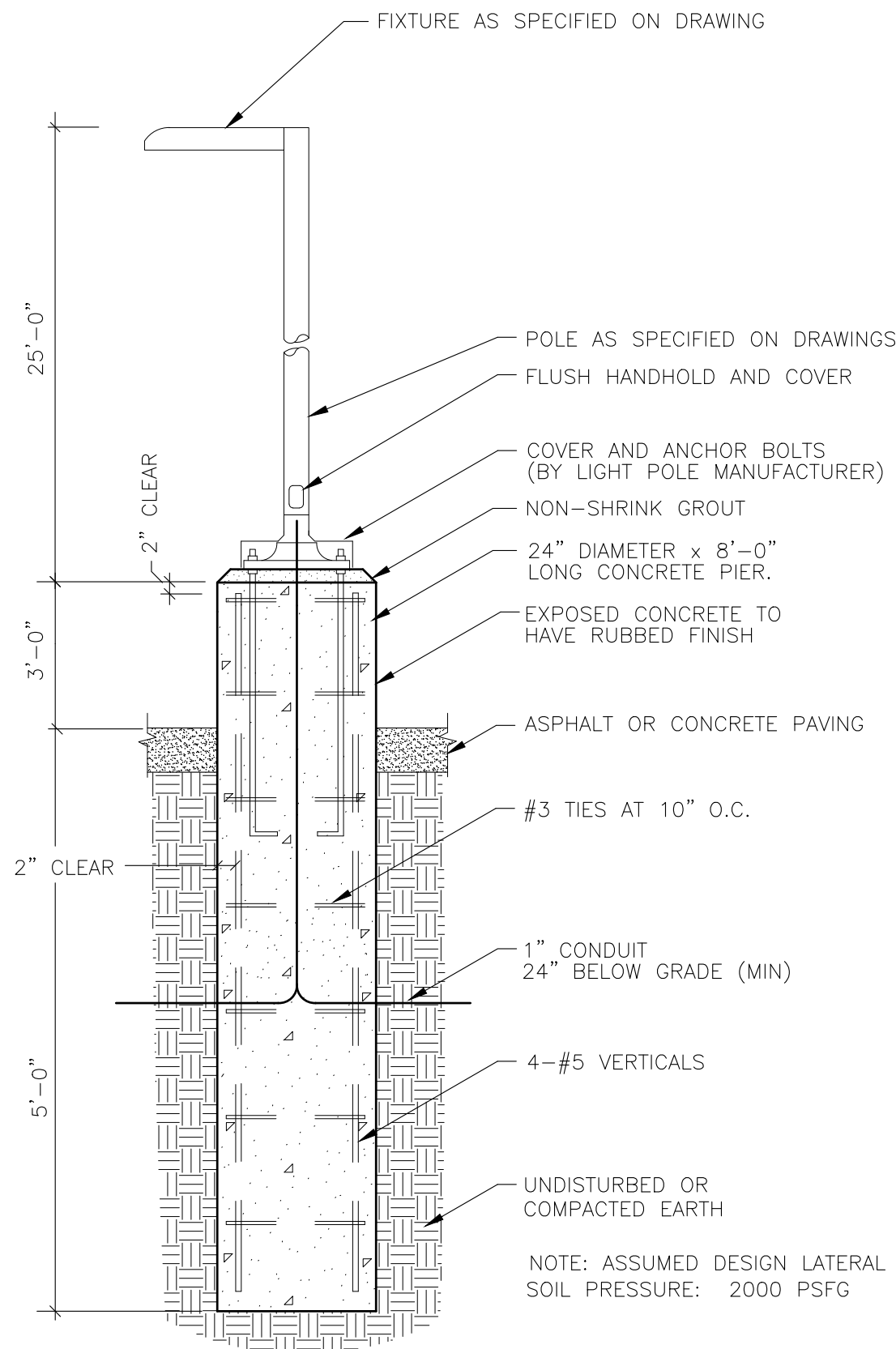


1 ELECTRICAL SITE LIGHTING PLAN
SCALE: 1"=20'-0"

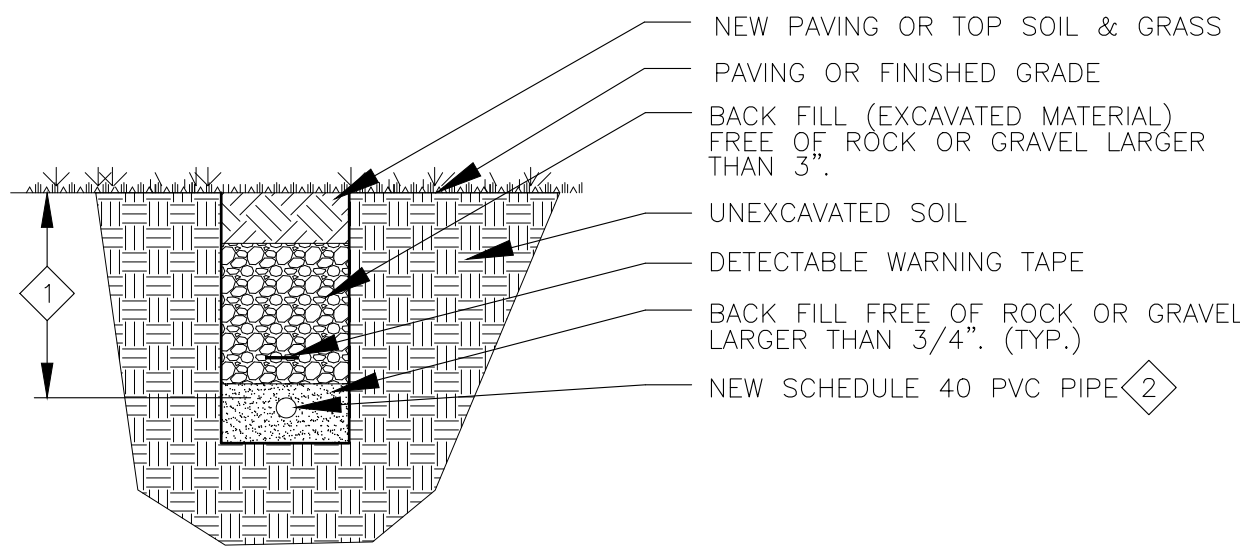
NOTE

N INDICATES KEYED NOTES

- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES AND REGULATIONS AND CURRENT NEC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ELECTRICAL PERMITTING FEES AND COORDINATION WITH LOCAL AUTHORITY ON INSTALLATION INSPECTIONS.
- GUARANTEE ALL WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE UNLESS OTHERWISE STATED IN CONSTRUCTION SPECIFICATIONS.
- COORDINATE TRENCHING WITH OTHER SITE UTILITIES.
- INSTALL (2)-#12 CU THWN & (1)-#12 CU THWN GRND IN (1)-1" SCHEDULE 40 PVC CONDUIT.
- EXTERIOR PARKING LOT LIGHTS TO BE CONTROLLED BY EXISTING CONTACTOR IN BANK MECHANICAL CLOSET AND PHOTOCELL NEAR EAST MAIN ENTRANCE. CIRCUIT TO WALLPACK LIGHTING. ELC TO VERIFY LOADING.
- TYPE S3 WALL PACKS ARE TO BE MOUNTED ON EXISTING BOXES. EACH FACE OF BUILDING HAS THE LIGHTS AT A DIFFERENT HEIGHT. ELECTRICAL CONTRACTOR OR ELC TO REPLACE WALL LIGHTS ONE FOR ONE.
- IF BID ALTERNATE NO. 2 IS SELECTED, ELC TO PROVIDE 150KW DIESEL GENERATOR, GENERATOR PAD AND BOLLARDS TO PROTECT THE GENERATOR. COORDINATE EXACT LOCATION OF GENERATOR AND PAD WITH OWNER. INSTALL ALL UNDERGROUND CONDUIT AND WIRE ALONG WITH CHANGE THE MANUAL TRANSFER SWITCHES FROM THE BASE BID TO AUTO TRANSFER SWITCHES. COORDINATE WITH GENERAL TO CUT/REPAIR PAVEMENT.**
- ALL WORK SHOWN IS FOR THE BASE BID EXCEPT FOR THE 3 ALTERNATES. ALTERNATE NO. 1 IS FOR THE SECURE PARKING LOT WITH FENCE AND LIGHTING. ALTERNATE NO. 2 IS FOR THE GENERATOR AND GENERATOR PAD WITH REMOTE ANNUNCIATOR AND EMERGENCY STOP BUTTON. ALTERNATE NO. 3 IS FOR THE INTERIOR LIGHTS FOR THE BANK TO BE UPGRADED TO LED WITH THE MAIN ENTRY REMAINING AS IS.



2 LIGHT POLE PIER DETAIL FOR TYPE S1/S2 FIXTURES
SCALE: NONE



- 24" MINIMUM BENEATH STREETS, ALLEYS, AND PARKING. 18" UNDER GRASS.
- CONDUIT CHASE FOR ELECTRIC.

3 UTILITY TRENCH DETAIL
SCALE: NONE

Scale: 1"=20'-0"

ELECTRICAL SITE LIGHTING PLAN

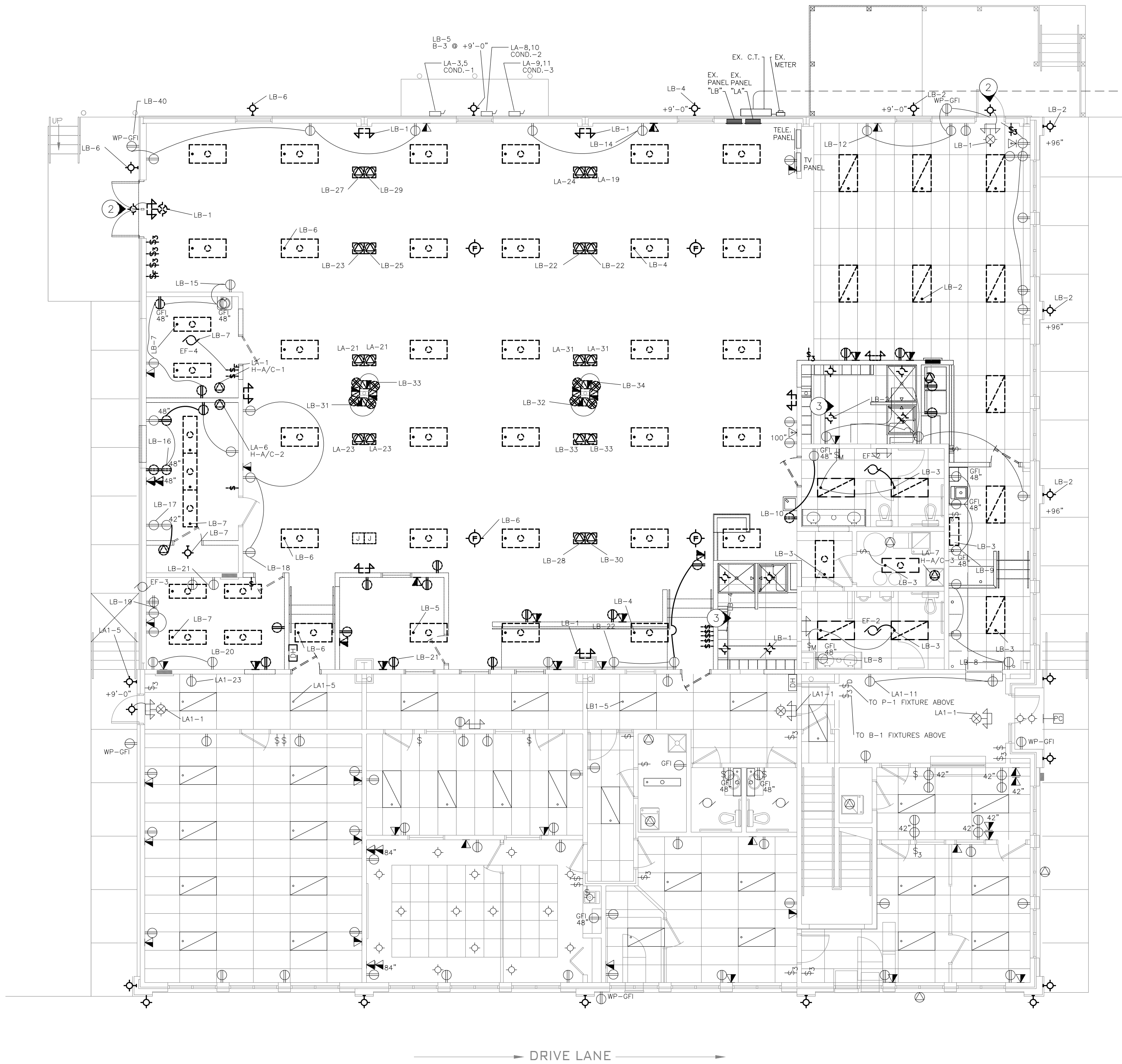
Date: 2021.06.01

E100

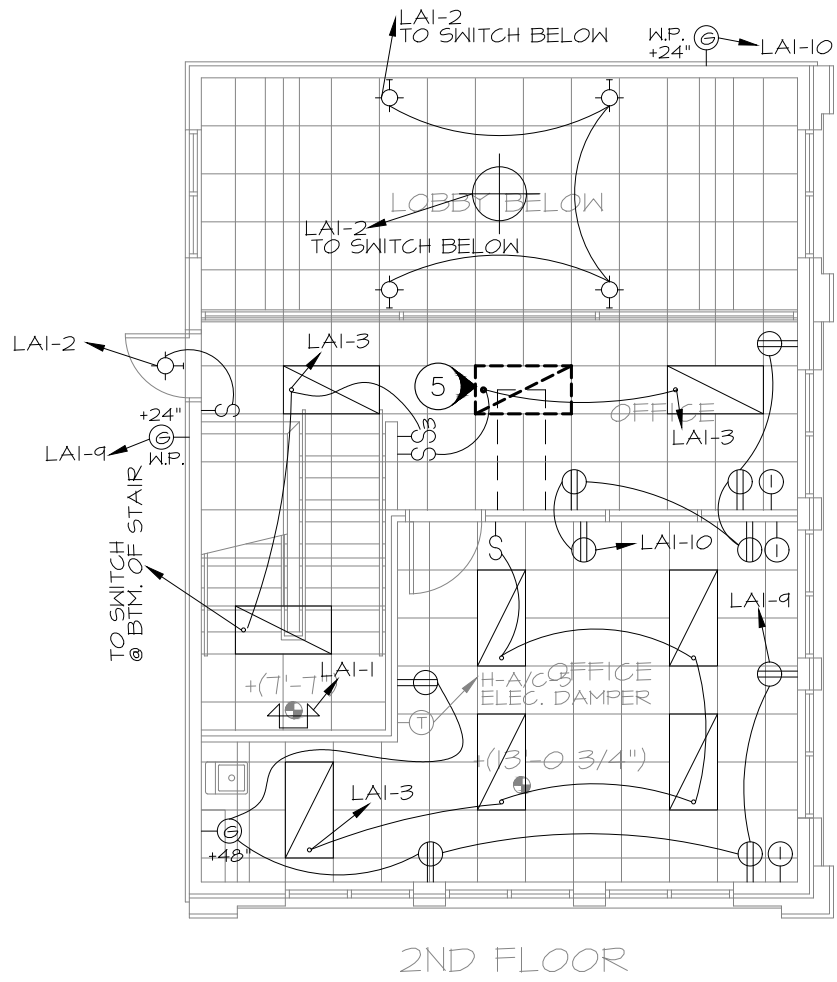
NOTES

N INDICATES KEYED NOTES

- 1 ALL ELECTRICAL DEVICES SHOWN TO BE REMOVED (DARK HIDDEN LINE) OR ON WALLS BEING REMOVED ARE TO BE REMOVED ALONG WITH THE WIRING BACK TO NEAREST ACTIVE OUTLET, JUNCTION BOX OR ELECTRICAL PANEL.
- 2 RELOCATE EXISTING EXIT/EMERGENCY COMBO ALONG WITH THE EXTERIOR REMOTE LIGHT TO LINE UP WITH THE NEW DOOR AND TO AVOID THE NEW CANOPY. SEE ARCHITECTURAL DRAWINGS AND SHEET E102.
- 3 REMOVE EXISTING OCCUPANCY SENSORS IN SHOWER ROOMS AND PUT IN RESTROOM CEILING. EXTEND WIRE AS NEEDED.
- 4 ALL EXTERIOR WALLPACK LIGHTS ARE TO BE REPLACED WITH LED. SEE E100 SITE PLAN.
- 5 REMOVE THIS FIXTURE AND SET ASIDE FOR THE NEW CONSTRUCTION. TO BE PLACED BACK IN CEILING IN A SHIFTED LOCATION. CLEAN FIXTURE PRIOR TO REINSTALLING.
- 6 EXISTING ELECTRICAL DEVICES SHOWN IN MAIN CORRIDOR AND SOUTH PART OF THE BUILDING ARE TO REMAIN UNLESS NOTED.



1 FIRST FLOOR ELECTRICAL DEMOLITION PLAN
SCALE: 1/8"=1'-0"



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

ELECTRICAL LEGEND

	EX. LIGHT FIXTURE (TO BE REMOVED)
	EXISTING EXHAUST FAN (TO REMAIN)
	EXISTING ELECTRIC PANELBOARD
	EX. NON FUSED DISC. SWITCH
	EXISTING EXIT/EMERGENCY (TO REMAIN)
	EXISTING EXIT/EMERGENCY (TO BE REMOVED)
	EXISTING RECESSED CAN LIGHT (TO REMAIN)
	EX. RECESSED CAN LIGHT (TO BE REMOVED)
	EXISTING QUAD OUTLET (TO BE REMOVED)
	EXISTING DUPLEX OUTLET (TO REMAIN)
	EXISTING DUPLEX OUTLET (REMOVE)
	EXISTING LIGHT SWITCH (TO REMAIN)
	EXISTING LIGHT SWITCH (TO BE REMOVED)
	EXISTING DATA OUTLET (TO REMAIN)
	EXISTING DATA OUTLET (TO BE REMOVED)
	EXISTING PHONE/DATA OUTLET (TO REMAIN)
	EMERGENCY LIGHT FIXTURE (TO REMAIN)
	EXISTING ELECTRICAL WIRE (TO REMAIN)
	EXISTING ELECTRICAL WIRE (TO BE REMOVED)



3100 Brown Station Rd. Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
Midwest Engineering & Design
Missouri State Certificate of Authority #2010032467

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



THE PROFESSIONAL ENGINEER'S SEAL AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN.

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: JLD/MDS
Drawn By: MDS
Checked By: JLD

Revision	Date	No.

Scale: 1/8"=1'-0"
ELECTRICAL
DEMOLITION PLAN

Date: 202106.01

E101

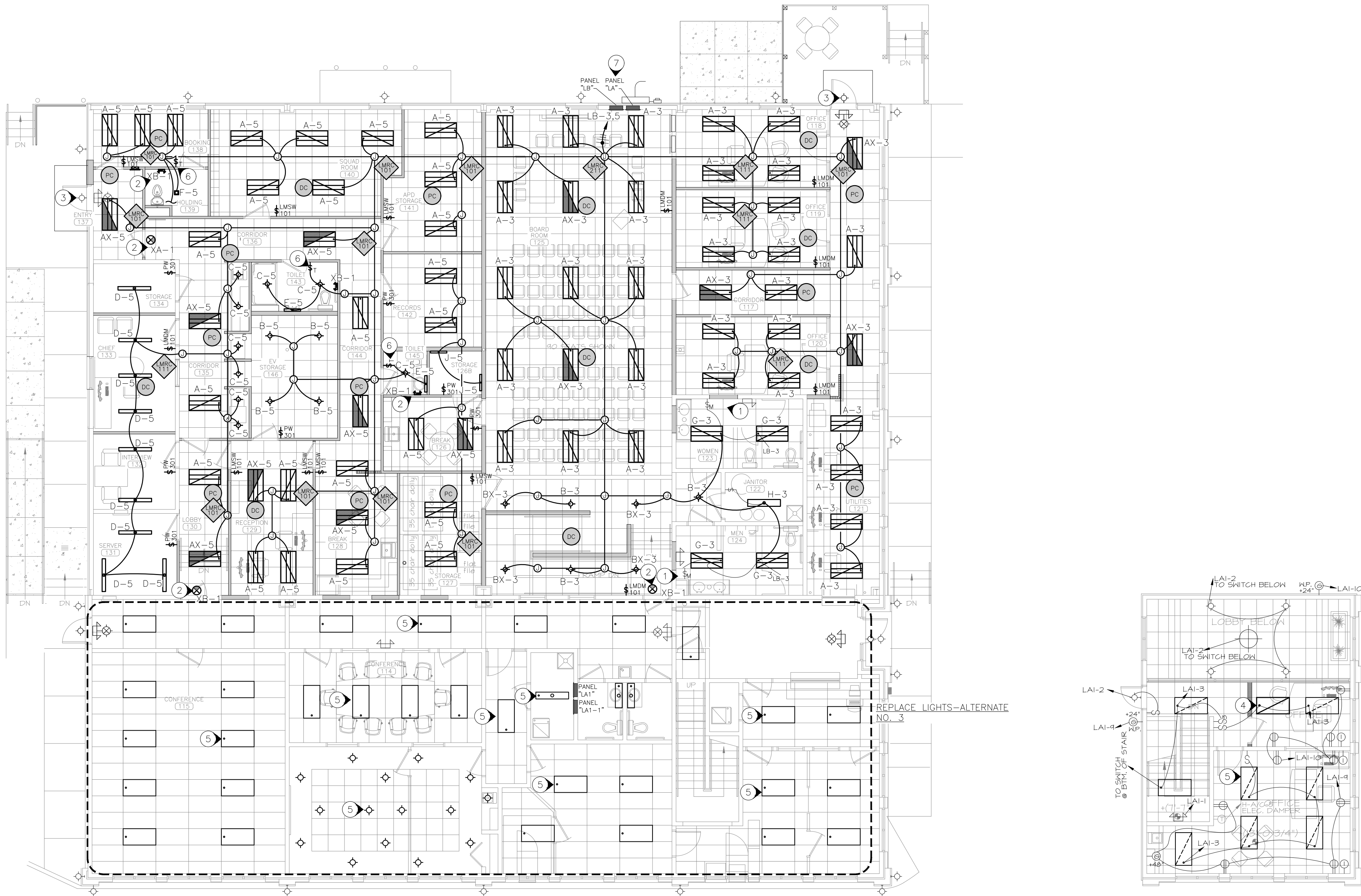
LIGHTING FIXTURE SCHEDULE									
FIXTURE DATA					LAMP DATA				
	TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MTG	VOLTS	LAMP QTY	WATTS	REMARK
	A	2BLT4 2x4 LED RECESSED BASKET	LITHONIA LIGHTING	2BLT4 48LHE ADP 120 E21 LP835	R	120	34	1	34W LED
	AX	2BLT LED EMERGENCY RECESSED BASKET	LITHONIA LIGHTING	2BLT4 48LHE ADP 120 E21 LP835 EL14L	R	120	34	1	34W LED
	B	6" OPEN NON-IC LED DOWNLIGHT	LITHONIA LIGHTING	LDN6 35/20 L06AR LSS MVOLT E210	R	120	23	1	23W LED
	BX	6" OPEN NON-IC EMERGENCY DOWNLIGHT	LITHONIA LIGHTING	LDN6 35/20 L06AR LSS MVOLT E210 EL	R	120	23	1	23W LED
	C	WF6 LED 6" LED MODULE DOWNLIGHT	LITHONIA LIGHTING	WF6 LED 27K30K35K 90CRI MW	R	120	14	1	14W LED
	D	ZL1N LED STRIPLIGHT	LITHONIA LIGHTING	ZL1N L48 5000LM FST MVOLT 35K 80CRI WH	SC	120	35	1	35W LED
	E	TRADITIONAL SQUARE VANITY LED	LITHONIA LIGHTING	FMVSL 24IN MVOLT 30K 90CRI BN	W	120	18	1	18W LED
	F	INCITO VANDAL/RESIST. RESISTANT DOWNLIGHT	GOIHAM	ICO25QVR 35/15 SOL 45D 120 UGZ DWH	SC	120	20	1	20W LED
	G	2BLT4 VOLUMETRIC 2x4 LIGHT	LITHONIA LIGHTING	2BLT4 30L ADP E21 LP835	R	120	30	1	30W LED
	H	LINEAR LED WRAP	LITHONIA LIGHTING	FML4W 48 5000LM 840 ZT MVOLT	SC	120	54	1	54W LED
	J	LOW PROFILE LED WRAPAROUND	LITHONIA LIGHTING	BLWP2 33LHE ADP E21 840	W	120	33	1	33W LED
	X	QUANTUM LED EXIT LIGHT	LITHONIA LIGHTING	EXRG EL M6 (RED LETTERS)	SC	120	2	1	2W LED
	XD	ELM2L QUANTUM LED EMERGENCY LIGHT	LITHONIA LIGHTING	ELM2L M12	W	120	2W	1	2W LED
NOTE: ①					AC - AIRCRAFT CABLE	G - GROUND	R - RECESSED	ST - STEM	-
MOUNTING STYLE					CH - CHAIN HUNG	P - POLE	S - SURFACE	W - WALL	-
NOTE: ②					CF - COMPACT FLUORESCENT	FM - PENDANT MOUNT	SC - SURFACE CEILING	W - UNIVERSAL	-
LAMP TYPE					FL - FLUORESCENT	PS - PULSE START	HPS - HIGH PRESSURE SODIUM	-	-
					H - HALOGEN	MH - METAL HALIDE	IN - INCANDESCENT	-	-
						MV - MERCURY VAPOR	LED - LIGHT EMITTING DIODE	-	-
LIGHT FIXTURES SHOWN ARE TO BE AS DESIGNED OR APPROVED EQUAL									

GENERAL NOTES

- ALL EXPOSED LINE VOLTAGE WIRING SHALL BE PULLED IN PROPERLY SIZED CONDUIT (EMT) WITH APPROVED FITTINGS. ALL WIRE IS TO BE COPPER. ALL CONDUIT IS TO BE RUN NEATLY AND PARALLEL TO BUILDING LINES. INSTALL PULL BOXES ON ANY RUNS THAT REQUIRE MORE THAN 360° WORTH OF BENDS. USE OF MC CABLE IN CONCEALED AREAS, (WALLS AND HARD CEILINGS ONLY), OF THE BUILDING IS ALLOWED BUT MUST BE SUPPORTED PER NEC REQUIREMENTS. EMT AND JUNCTION BOXES WITH AN MC WHIP OF 6 FEET OR LESS FOR ALL EXPOSED CEILINGS AND ALL LAY-IN CEILINGS.
- ALL LINE VOLTAGE WIRE SHALL BE TYPE THHN OR THWN, #12 COPPER OR LARGER, UNLESS OTHERWISE NOTED. ANY 20A LOADS FED FURTHER THAN 55' SHALL BE INCREASED TO A #10 COPPER CONDUCTOR.
- ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE LOCAL BUILDING CODES AND REGULATIONS AND CURRENT NEC. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ELECTRICAL PERMITTING FEES AND COORDINATION WITH LOCAL AUTHORITY ON INSTALLATION INSPECTIONS.
- A GREEN INSULATED GROUNDING CONDUCTOR SHALL BE INSTALLED TO ALL ELECTRICAL DEVICES AND SOLIDLY CONNECTED TO THE METAL FRAME OF THE DEVICE.
- SWITCHES SHOWN TO REMAIN WILL RECEIVE NEW DEVICE AND COVER.
- COVER PLATES IN ALL AREAS SHALL BE STAINLESS STEEL. ALL DEVICES SHALL BE SPECIFICATION GRADE AND WHITE IN COLOR. DIMENSIONS GIVEN AS (XX") IS TO CENTERLINE OF DEVICE. ALL LIGHT SWITCHES ARE AT 48" AFF TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
- ALL MOTOR CONNECTIONS ARE TO BE WITH FLEXIBLE CONDUIT, NOT TO EXCEED 6' IN LENGTH.
- GARANTEE ALL WORKMANSHIP AND MATERIALS FOR A MINIMUM OF ONE YEAR FROM FINAL ACCEPTANCE UNLESS OTHERWISE STATED IN CONSTRUCTION SPECIFICATIONS.
- ELC MAY REUSE EXISTING CONDUIT IF IT IS FEASIBLE. IF NOT FEASIBLE, ELC TO RUN NEW EMT AND MC WHIPS (MAX. 6') TO FIXTURES.
- EXHAUST FAN ABOVE CEILING OF NEW BATHROOM TO BE CIRCUITED WITH THE BATHROOM LIGHTS AND SHALL BE CONNECTED TO FAN DELAY TIMED SWITCH. LIGHTS GO OFF BUT FAN STAYS RUNNING FOR PRESET TIME. SET TIME DELAY TO 10 MINUTES. SWITCH TO BE EFI FAN DELAY TIMER OR EQUIVALENT.

NOTES

- THIS RESTROOM HAS A MOTION SENSOR SWITCH TO TURN LIGHTS ON. ADD NEW LED LIGHT FIXTURE. EMERGENCY LIGHT FIXTURE TO REMAIN. MOVE MOTION SENSOR TO AN APPROPRIATE LOCATION AS NEEDED. PLACE SALVAGED OCCUPANCY SENSORS IN NEW CEILING IN APPROPRIATE LOCATION. EXTEND WIRE AS NEEDED.
- WIRE NEW EXIT AND EMERGENCY LIGHTS TO LB-1. ELC TO VERIFY LOADING AND CIRCUIT NUMBER.
- EXISTING REMOTE EMERGENCY FIXTURE LOCATION TO BE COORDINATED WITH ARCHITECTURAL DRAWINGS FOR NEW AWNING ABOVE. AWNING TO BE LOCATED SO BOTTOM OF AWNING IS AT 8'-0" AFF. LIGHT IS TO BE OFFSET TO THE OPENING SIDE OF THE DOOR AS HIGH AS POSSIBLE. COORDINATE WITH GENERAL TO PATCH ANY EXISTING WALL PENETRATIONS TO A WATER TIGHT CONDITION.
- EXISTING LIGHT REMOVED AND CLEANED DURING DEMOLITION TO BE INSTALLED AT THIS LOCATION. EXTEND ALL CONDUIT AND WIRING AS NEEDED. SWITCHING TO REMAIN AS IS.
- ALTERNATE NO. 1 IS TO REPLACE ALL THE EXISTING LIGHTS ON THE BANK SIDE AND THE SECOND FLOOR WITH NEW LED LIGHTING. FIXTURES TO MATCH LIGHT FIXTURE SCHEDULE. ALL FIXTURES ARE FED FROM BANK PANEL LA1. FIXTURE LOCATIONS ARE TO REMAIN.
- ELC TO PROVIDE AND INSTALL EFI FAN DELAY TIMER SWITCH. CONNECT FAN TO LIGHT CIRCUIT. LIGHTS GO ON WITH FAN. LIGHTS GO OFF AND FAN RUNS 10 MINUTES. SEE POWER SHEET FOR FAN.
- THIS ELECTRIC PANEL IS TO BE REMOVED AND REPLACED WITH ANOTHER SIMILAR PANEL WITH MORE SPACES. SEE ELECTRICAL RISER DETAILS ON SHEET ES01.



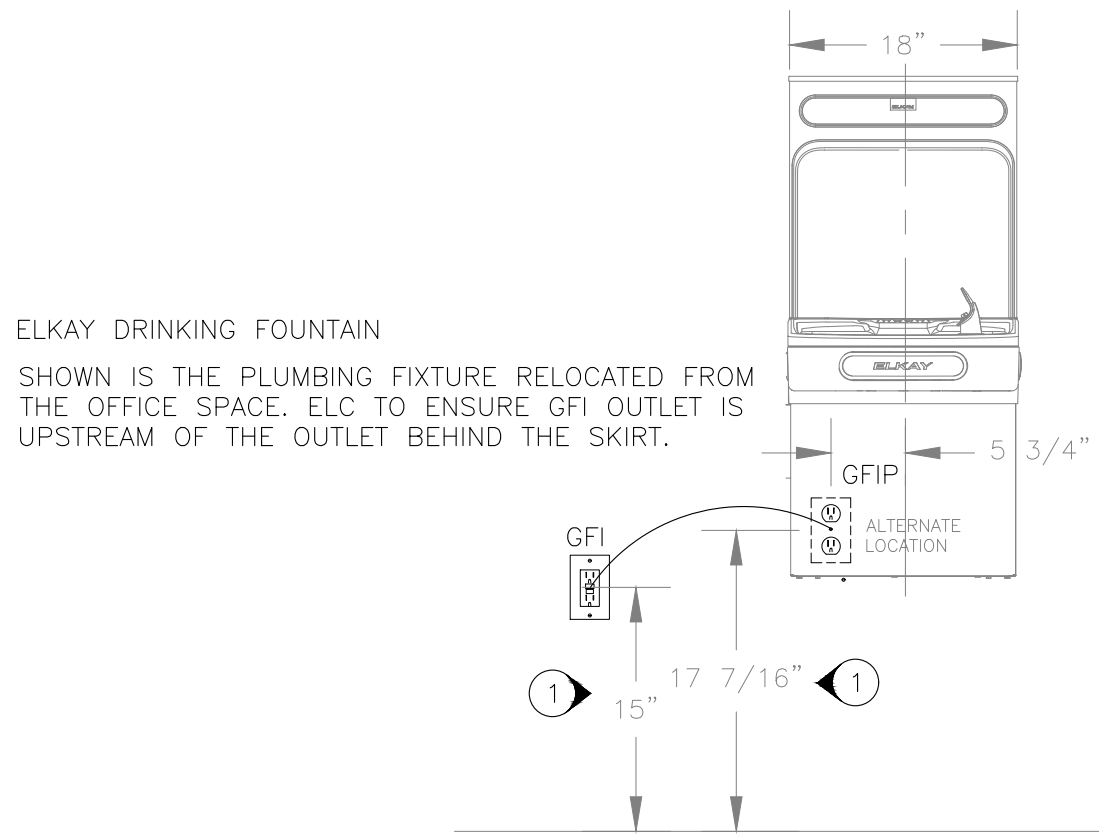
ELECTRICAL LEGEND

FIXTURE TYPE	SWITCH DESIGNATION	CIRCUIT NUMBER
RECESSED LIGHT FIXTURE		
SURFACE MTD EMERGENCY LED LIGHT FIXTURE		
SURFACE MOUNTED LED LIGHT FIXTURE		
RECESSED-CAN TYPE DOWNLIGHT FIXTURE		
EXIT SIGN-SHADED AREA DENOTES LIT SURFACE, ARROW DENOTES EXIT DIRECTION		
COMBO EMERGENCY AND EXIT LIGHT		
EMERGENCY LIGHT OR REMOTE HEAD		
SWITCHES-SINGLE POLE, 3 WAY, 4 WAY		
STANDARD MOUNTING HEIGHT 48" AFF		
DELAY TIMER SWITCH, STANDARD 48" AFF		
JUNCTION BOX		
HOME RUN-SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE INDICATE NEUTRAL, LONG WITH DOT INDICATE GROUND		

LIGHT CONTROL DEVICES ARE TO BE WATTSTOPPER OR AN APPROVED EQUAL. LOW VOLTAGE WIRE IS NOT SHOWN.

LIGHT CONTROL LEGEND

LMDC-100; DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR	
LMPC-100; PIR CEILING MOUNT OCCUPANCY SENSOR	
LMRC-101; SINGLE RELAY ROOM CONTROLLER	
LMRC-111; LOW VOLTAGE DIMMING SINGLE RELAY ROOM CONTROLLER	
LMRC-211; LOW VOLTAGE DIMMING SINGLE RELAY ROOM CONTROLLER	
LMSW-102-W; 1-BUTTON LOW VOLTAGE WALL SWITCH (WHITE)	
PW-301-W; PASSIVE INFRARED WALL SWITCH OCCUPANCY SENSOR (WHITE)	
LMDM-101-W; ONE BUTTON DIMMING WALL SWITCH	



1 BOTTLE FILLER DRINKING FOUNTAIN ELECTRICAL DETAIL
SCALE: NONE

GENERAL NOTES

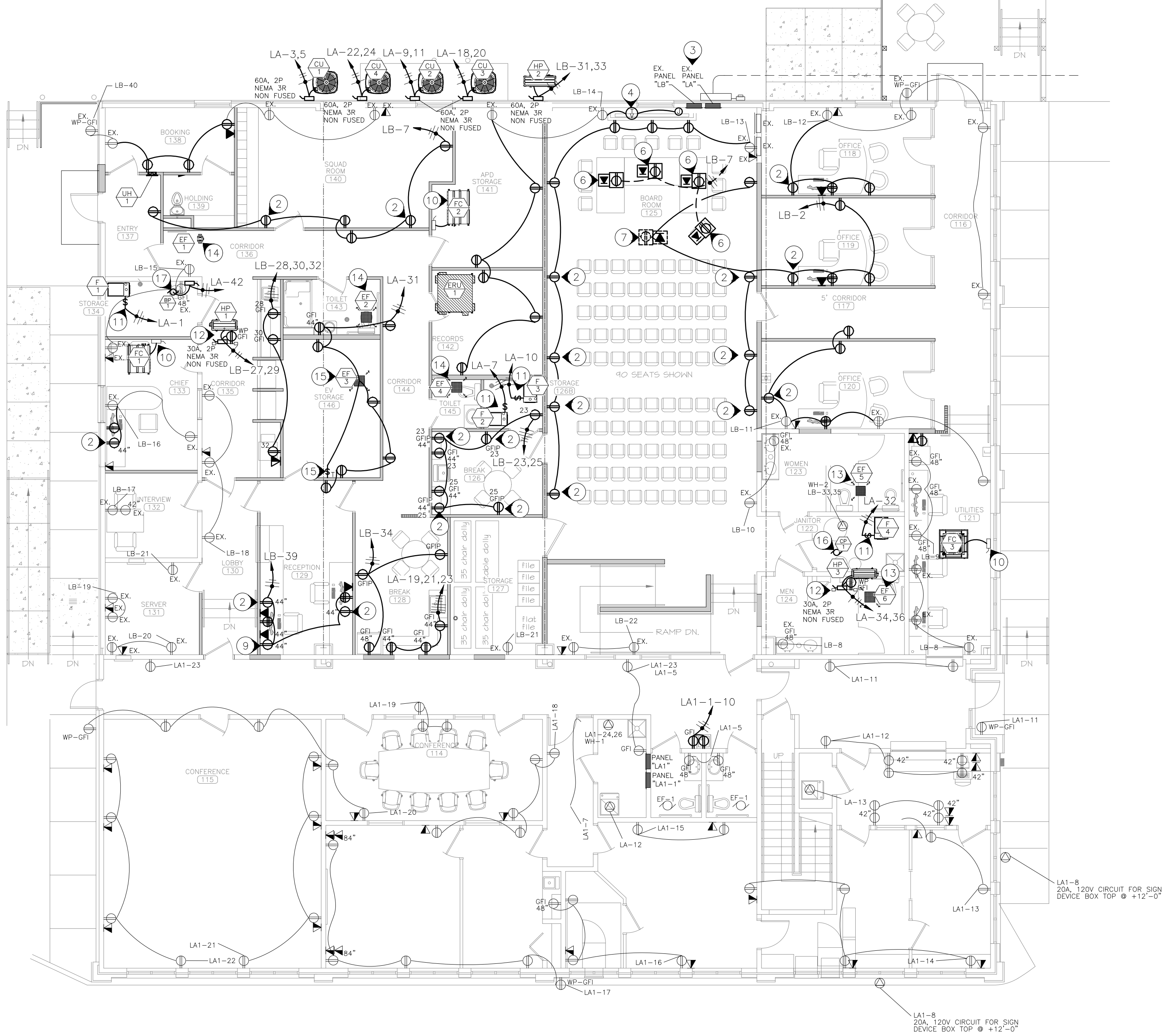
- DRAWINGS PROVIDED FOR EXISTING CONDITIONS COULD NOT BE ENTIRELY VERIFIED. ELC TO VERIFY CIRCUITING AND REPORT ANY LARGE DISCREPANCIES TO ENGINEER AS SOON AS POSSIBLE. ALL DEVICES MAY NOT BE SHOWN. FIELD VERIFY.
- ALL GENERAL PURPOSE RECEPTACLES SHALL BE 2 POLE 3 WIRE GROUNDING TYPE 5-20R RATED FOR 20 AMPERE. RECEPTACLES IN THE WEST AND EAST WALL OF THE BOARD ROOM ARE TO BE TAMPER RESISTANT. RUN SEPARATE NEUTRAL WIRE FOR ALL CIRCUITS WITH GFI OUTLETS.
- ELECTRICAL CONTRACTOR (ELC) IS TO SUPPLY AND INSTALL ALL CONDUIT AND ALL LINE VOLTAGE WIRING. COORDINATE WITH MECHANICAL CONTRACTOR TO SUPPLY AND RUN CONDUIT FOR MECHANICAL SYSTEM LOW VOLTAGE WIRING. COORDINATE WITH OTHER DISCIPLINES TO RUN CONDUIT FOR OTHER LOW VOLTAGE WIRING.
- FURNISH AND INSTALL ALL FUSES, BREAKERS, RECEPTACLE, PLATES, ETC. TO COMPLETE THE BRANCH CIRCUITS INDICATED. ALL ELECTRICAL PANELS ARE TO HAVE COPPER BUSSING.
- COVER PLATES IN ALL AREAS SHALL BE STAINLESS STEEL. ALL DEVICES NEW AND EXISTING SHALL BE SPECIFICATION GRADE AND WHITE IN COLOR. COORDINATE ALL MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- INSTALL 4 SQUARE W/SINGLE GANG MUD RING 18" AFF. (UNLESS NOTED OTHERWISE). AT EACH PHONE/DATA LOCATION. RUN ONE 3/4" CONDUIT FROM 4 SQUARE TO NEAREST ACCESSIBLE CEILING SPACE. ELC PROVIDES ALL DATA (CAT6) AND PHONE DEVICES. CONDUIT FROM EACH TO ABOVE CEILING. OWNER TO PROVIDE DATA SWITCH AND DATA PATCH PANEL AND DO FINAL PUNCH DOWNS. ELC TO ROUTE DATA HOME RUNS TO SERVER ROOM.
- IF ANY MECHANICAL, PLUMBING OR ELECTRICAL EQUIPMENT SPECIFIED IN THE DRAWINGS IS SUBSTITUTED BY A CONTRACTOR, THAT CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE EQUIPMENT'S ELECTRICAL PROTECTION PER THE MANUFACTURER'S NAMEPLATE, AND THE CURRENT NEC, ALONG WITH ALL EXPENSES INCURRED DUE TO SAID SUBSTITUTION. THE CONTRACTOR WHO IS PROVIDING THE SUBSTITUTION SHALL COORDINATE WITH ALL DISCIPLINES AFFECTED BY THIS CHANGE.
- DISCONNECTS SHOWN LIGHT WITHOUT SPECIFIC INFORMATION ARE PROVIDED AND INSTALLED BY THE FACTORY. DISCONNECTS SHOWN HEAVY WITH SIZE RATINGS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. SEE MECHANICAL SCHEDULES.
- NEW GFI OUTLET TO PROTECT THE OUTLET BEHIND THE NEW DRINKING FOUNTAIN SKIRT. MOUNT GFI OUTLET BEHIND SKIRT AT MANUFACTURER'S SUGGESTED HEIGHT. USE NEW GFI OUTLET TO RESET CIRCUIT. SEE DETAIL 1 THIS SHEET.
- OUTLET AND LIGHT SWITCH DIMENSIONS ARE TO CENTER OF BOX.
- ELC TO MARK ALL DEVICE COVERS WITH PANEL AND CIRCUIT INFORMATION FOR "LA" AND "LB" USING A LABEL MAKER, BLACK NUMBERS ON WHITE BACKGROUND. ALL BREAKERS THAT HAVE NO LOAD ARE TO BE IDENTIFIED AS A SPARE AND MARKED IN PANEL AS SUCH. TURN BREAKER OFF.
- WHERE AN EXISTING OUTLET/DATA/PHONE IS SHOWN TO STAY, ELC TO REPLACE THE DEVICE AND COVER PLATE. CIRCUITING TO REMAIN AS SHOWN OR AS ELC VERIFIED.

(N) INDICATES KEYED NOTES

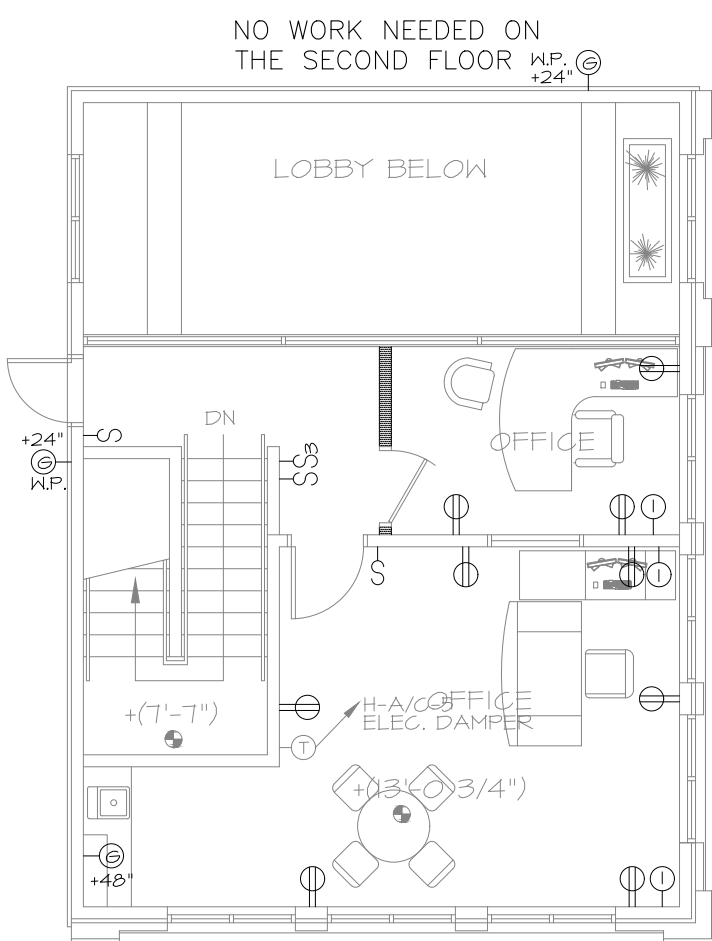
NOTES

- OUTLET AND LIGHT SWITCH DIMENSIONS ARE TO CENTER OF BOX-TYPICAL.
- THIS RECEPTACLE IS TO HAVE (2) USB CHARGING PORTS (1-TYPE A AND 1-TYPE C) (LEVITON DECORA OR EQUAL). HEIGHT TO BE 18" AFF UNLESS NOTED OTHERWISE.
- THIS EXISTING PANEL TO BE REPLACED WITH NEW 54 SPACE 400A 1P 3W MAIN BREAKER PANEL. SEE RISER DETAILS ON SHEET E501.
- ELC TO PROVIDE RECESSED FLAT TV CONNECTION KIT, (LEGRAND HT2102-WH-V1 OR EQUAL), WITH 1 DUPLEX OUTLET AND 1 CABLE/DATA. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR HEIGHT.
- SAW CUT EXISTING CONCRETE TO ALLOW FOR THE INSTALLATION OF POWER TO FLOOR BOXES SHOWN. COORDINATE WITH PLUMBING CONTRACTOR.
- ELC TO PROVIDE AND INSTALL THOMAS & BETTS STEEL CITY 668-S SERIES ULTRA SHALLOW FLOOR BOX (BLACK) WITH DUPLEX OUTLET AND (6) DATA JACKS (668S-6RJ) OR EQUAL. PROVIDE APPROPRIATE TRIM RING TO MATCH FLOOR FINISH. COORDINATE WITH OWNER FOR EXACT PLACEMENT. RUN (1) 1/2" EMT FROM DEVICE UNDER FLOOR AND UP WALL TO ACCESSIBLE CEILING SPACE FOR POWER, (1) 1" EMT FROM DEVICE UNDER FLOOR AND UP WALL TO ACCESSIBLE CEILING SPACE FOR FUTURE SOUND BY OTHERS AND (1) 1" EMT UNDER FLOOR UP WALL TO ACCESSIBLE CEILING SPACE FOR DATA. COORDINATE WITH OWNER.
- ELC TO PROVIDE AND INSTALL POWER AND DATA IN THE CEILING AT THIS LOCATION. VERIFY EXACT LOCATION WITH ARCHITECTURAL PLANS. INSTALL (2) 1/2" CONDUITS IN CEILING TO PROJECTOR LOCATION FOR POWER AND DATA. COORDINATE WITH OWNER FOR AUDIO WIRE.
- ELC TO USE CIRCUIT LB-14 TO POWER UP THE PROJECTOR SCREEN. COORDINATE WITH MANUFACTURER'S INSTRUCTIONS.
- ELC TO PROVIDE A 120V OUTLET AND DATA OUTLET ABOVE THE DESK AT THIS GENERAL LOCATION FOR DOOR SECURITY SYSTEM. COORDINATE EXACT LOCATION WITH SECURITY PROVIDER. CAT 5 CABLE FROM DEVICE TO SERVER ROOM. SEE E104.
- INDOOR UNIT (MINI SPLIT) GETS IT'S POWER FROM THE OUTSIDE UNIT. ELC TO CONNECT POWER TO INDOOR UNIT THROUGH THE FACTORY SUPPLIED DISCONNECT SWITCH. MOUNT HIGH ON WALL.
- CONTRACTOR TO PROVIDE AND INSTALL BUSSMANN SSU FUSED DISCONNECT. SIZE PER MANUFACTURER'S NAME PLATE DATA. MOUNT TO SIDE OF UNIT IN HANDY BOX.
- ELC TO PROVIDE AND INSTALL ROOF MOUNTED UNISTRUT RACK FOR ELC PROVIDED WP-GFI AND EQUIPMENT DISCONNECT. SEAL ALL ROOF PENETRATIONS TO A WATER TIGHT CONDITION. SEE NOTE 10 ABOVE.
- EXISTING FANS WERE CONTROLLED BY THE LIGHTS AND WERE REMOVED IN DEMOLITION BUT LIGHT CONTROLS REMAINED. ELC TO CONNECT THIS NEW EXHAUST FAN TO LIGHT CIRCUIT SO THE FAN COMES ON WITH THE LIGHTS AND RUNS FOR A SET TIME AFTER THE LIGHTS GO OFF. COORDINATE WITH OWNER ON TIME LIMIT.
- CONNECT THIS EXHAUST FAN TO LIGHT CIRCUIT. SEE LIGHTING SHEET. CONTROLLED BY TIMED SWITCH.
- CONNECT THIS EXHAUST FAN TO THE RECEPTACLE CIRCUIT. SUPPLY AND INSTALL A TIMED SWITCH TO RUN FAN. SWITCH TO BE GE IN-WALL DIGITAL COUNTDOWN TIMER OR EQUAL. MOUNT SWITCH PER OWNER DIRECTION.
- CIRCULATION PUMP (CP-1) REQUIRES 120V POWER AND HAS AN ELECTRIC TIMER. TIMER IS TO BE MOUNTED TO PUMP AND 120V RUN TO TIMER PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. POWER FROM LIGHTING CIRCUIT.
- BOOSTER PUMP (BP-1) TO HAVE A DISCONNECT FOR THE 1/2 HP 120V MOTOR. ELC TO PROVIDE AND CONNECT TO A DEDICATED CIRCUIT PER MANUFACTURER'S INSTALL INSTRUCTIONS. PLACE AT 48" AFF. COORDINATE WITH OTHER EQUIPMENT BEING ADDED.

(N) INDICATES KEYED NOTES



2 FIRST FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"



3 SECOND FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL LEGEND

	DUPLEX RECEPT.- 120V GROUNDING TYPE STANDARD MOUNTING HEIGHT 18" AFF
	DUPLEX RECEPT.- 120V GROUND FAULT TYPE
	DUPLEX RECEPT.- 120V GFI: WEATHER PROOF
	DUPLEX RECEPT.- 120V GROUND FAULT TYPE
	QUAD RECEPT.- 120V GROUNDING TYPE
	FLOOR MOUNTED DEVICE - OR
	CEILING MOUNTED - SEE SHEET NOTES
	JUNCTION BOX
	HOME RUN-SHORT STROKES INDICATE PHASE OR SWITCHED WIRES, LONG STROKE INDICATE NEUTRAL, LONG WITH DOT INDICATE GROUND
	MOTOR- SEE EQUIPMENT DATA SCHEDULE
	EXISTING FLUSH MOUNTED PANEL
	NON FUSED DISCONNECT SWITCH
	ELECTRIC HEATING EQUIPMENT
	DATA OUTLET- 18" AFF UNLESS NOTED
	PHONE/DATA OUTLET-18" AFF UNLESS NOTED
	CABLE TV - POWER/DATA/AUDIO

UNIT HEATER SCHEDULE

MARK	MODEL	DESCRIPTION	SPECIFICATION	REMARK
QMARK	CWH1101DSAF	WALL MOUNTED	1000 WATTS 120V/1-8.4A	HEAVY DUTY HEATING ELEMENT FAN DELAY
ARCHITECTURAL	FAN-FORCED	ELECTRIC HEATER	65 CFM= 3,413 BTU/HR BRONZE	WALL BOX FOR 2x4 WALL PROVIDED DIMENSIONS - 12 1/8"H x 9 1/4"W x 4"D



THE PROFESSIONAL ENGINEER'S SEAL, AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN.

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: MDS
Drawn By: MDS
Checked By: JLD

Revision	Date	No.

Scale: VARIES

**SECURITY
PLAN**

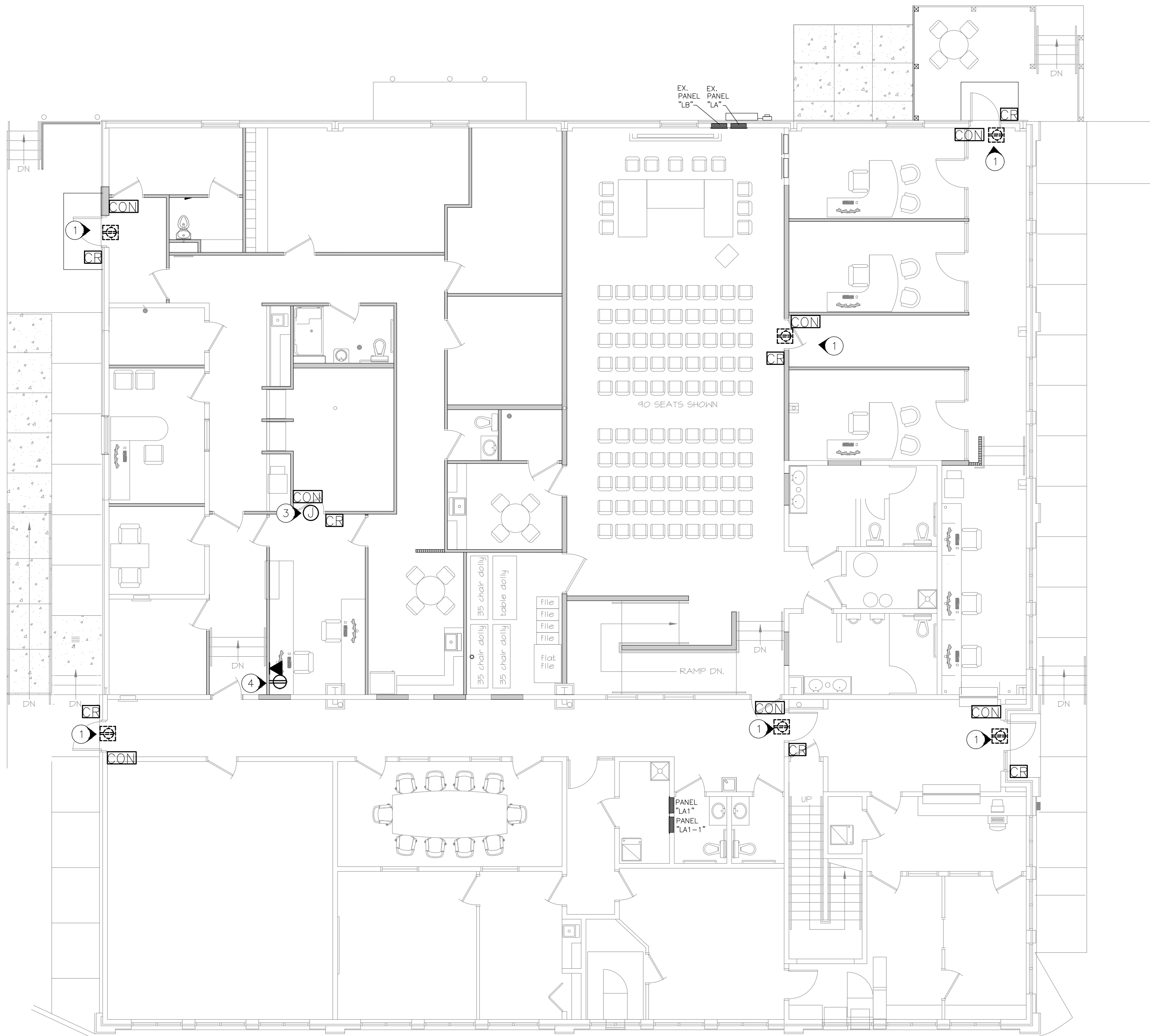
Date: 202106.01

E104

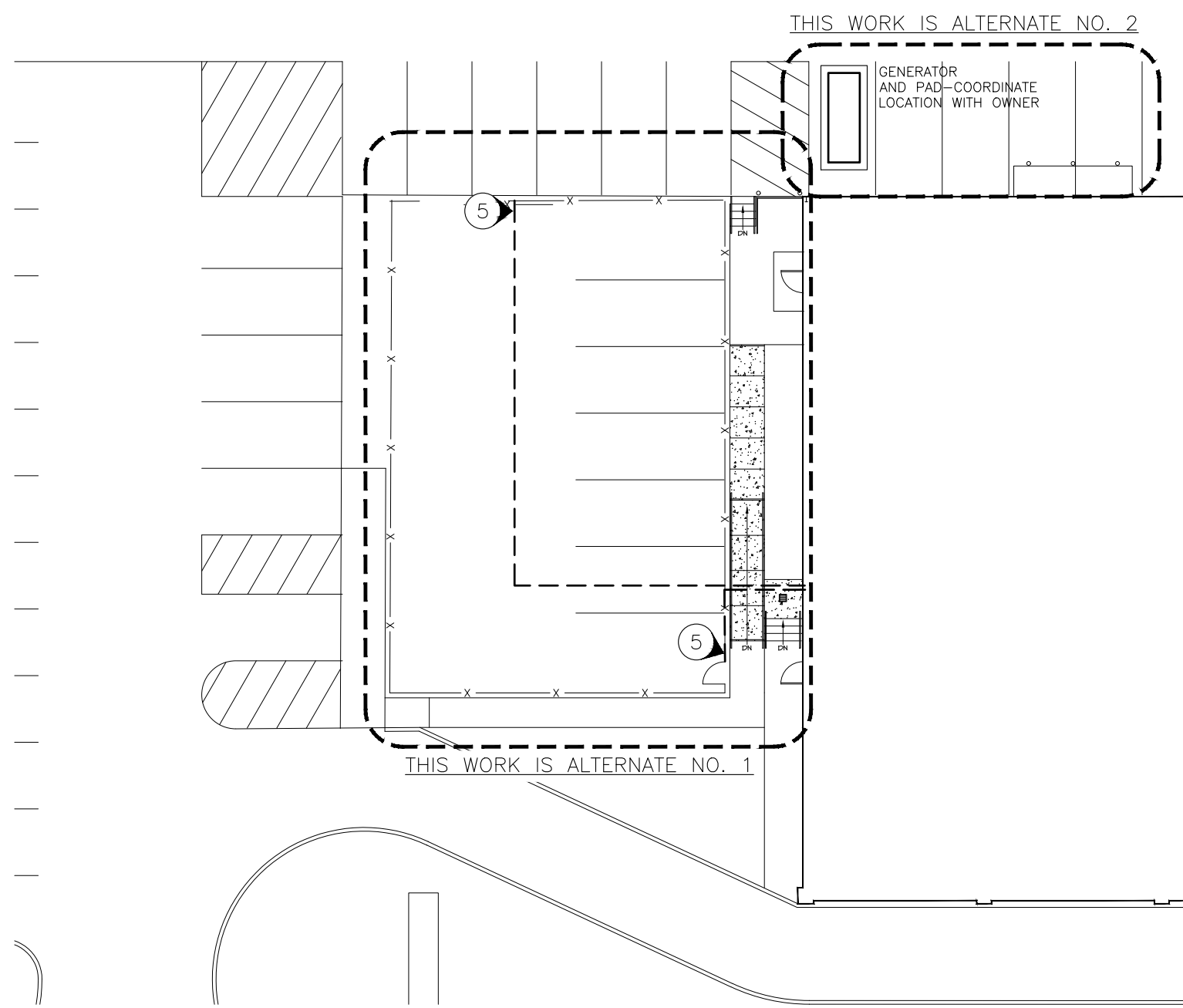
NOTES

INDICATES KEYED NOTES

- 1 AT THIS LOCATION ELC IS TO PROVIDE A ROUGH IN FOR A SECURITY KEY PAD AND CONTROLLER. INSTALL RECESSED SINGLE GANG BOX AT 44" AFF WITHIN 18" OF THE DOOR KNOB AND 3/4" CONDUIT TO ABOVE CEILING WITH CAT5 CABLE. PLACE CAT 5 CABLE IN BOX WITH 24" OF EXTRA CABLE AND RUN A HOME RUN TO THE SERVER ROOM. INSTALL A 3-GANG RECESSED BOX MOUNTED ON OPPOSITE SIDE OF DOOR FOR CONTROLLER IN ACCESSIBLE SPACE ABOVE DOOR WITH 12" OF EXTRA CAT 5 CABLE IN THE BOX AND A HOME RUN TO THE SERVER ROOM. PLACE A 120V RECEPTACLE ABOVE THE CEILING FOR POWER SUPPLY TO RETRACT THE DEVICE. BOTH ENDS OF ALL CAT 5 TO HAVE RJ45 ENDS ATTACHED. LABEL EACH END OF CAT 5 CABLES. COORDINATE WITH SECURITY PROVIDER MATT BUYDOS WITH ELLIOT SYSTEMS AT 636-386-8400.
- 2 CONTROLLERS, CARD READERS, DOOR LOCKS, LOW VOLTAGE WIRE, SWITCHES AND MASTER CONTROL STATIONS BY OTHERS. ELC TO PROVIDE ROUGH INS FOR THE SECURITY DOOR SYSTEM ALONG WITH CAT5 CABLE WITH RJ45 ENDS, EXTRA CABLE AT DEVICES AND HOME RUNS TO SERVER ROOM. COORDINATE WITH MATT BUYDOS.
- 3 AT THIS LOCATION ELC IS TO PROVIDE A ROUGH IN FOR A SECURITY KEY PAD AND CONTROLLER. INSTALL RECESSED SINGLE GANG BOX AT 44" AFF WITHIN 18" OF THE DOOR KNOB AND 3/4" CONDUIT TO ABOVE CEILING WITH CAT5 CABLE. PLACE CAT 5 CABLE IN BOX WITH 24" OF EXTRA CABLE AND RUN A HOME RUN TO THE SERVER ROOM. INSTALL A 3-GANG RECESSED BOX MOUNTED ON OPPOSITE SIDE OF DOOR FOR CONTROLLER IN ACCESSIBLE SPACE ABOVE DOOR WITH 12" OF EXTRA CAT 5 CABLE IN THE BOX AND A HOME RUN TO THE SERVER ROOM. PLACE A JUNCTION BOX WITH 120V POWER FROM LIGHTING CIRCUIT ABOVE THE CEILING FOR LOW VOLTAGE POWER. TRANSFORMER BY OTHERS. BOTH ENDS OF ALL CAT 5 TO HAVE RJ45 ENDS ATTACHED. LABEL EACH END OF CAT 5 CABLES. COORDINATE WITH SECURITY PROVIDER MATT BUYDOS WITH ELLIOT SYSTEMS AT 636-386-8400.
- 4 PROVIDE POWER AND DATA OUTLETS FOR SYSTEM CONTROLLER NEAR THIS LOCATION. COORDINATE WITH OWNER AND MATT BUYDOS.
- 5 ELC TO PROVIDE AND INSTALL 2" PVC CONDUIT UNDERGROUND WITH CAT5 CABLE AND RJ45 ENDS FROM SERVER ROOM TO GATE FOR SECURITY. PROVIDE 120V POWER FOR LOW VOLTAGE TRANSFORMER BY OTHERS. RUN CONDUIT UP AT THE DESIGNATED LOCATION TO ABOVE GROUND AND CAP FOR SECURITY DEVICE CONNECTIONS. COORDINATE WITH MATT BUYDOS. THIS WORK IS TO BE BID AS ALTERNATE NO. 1.

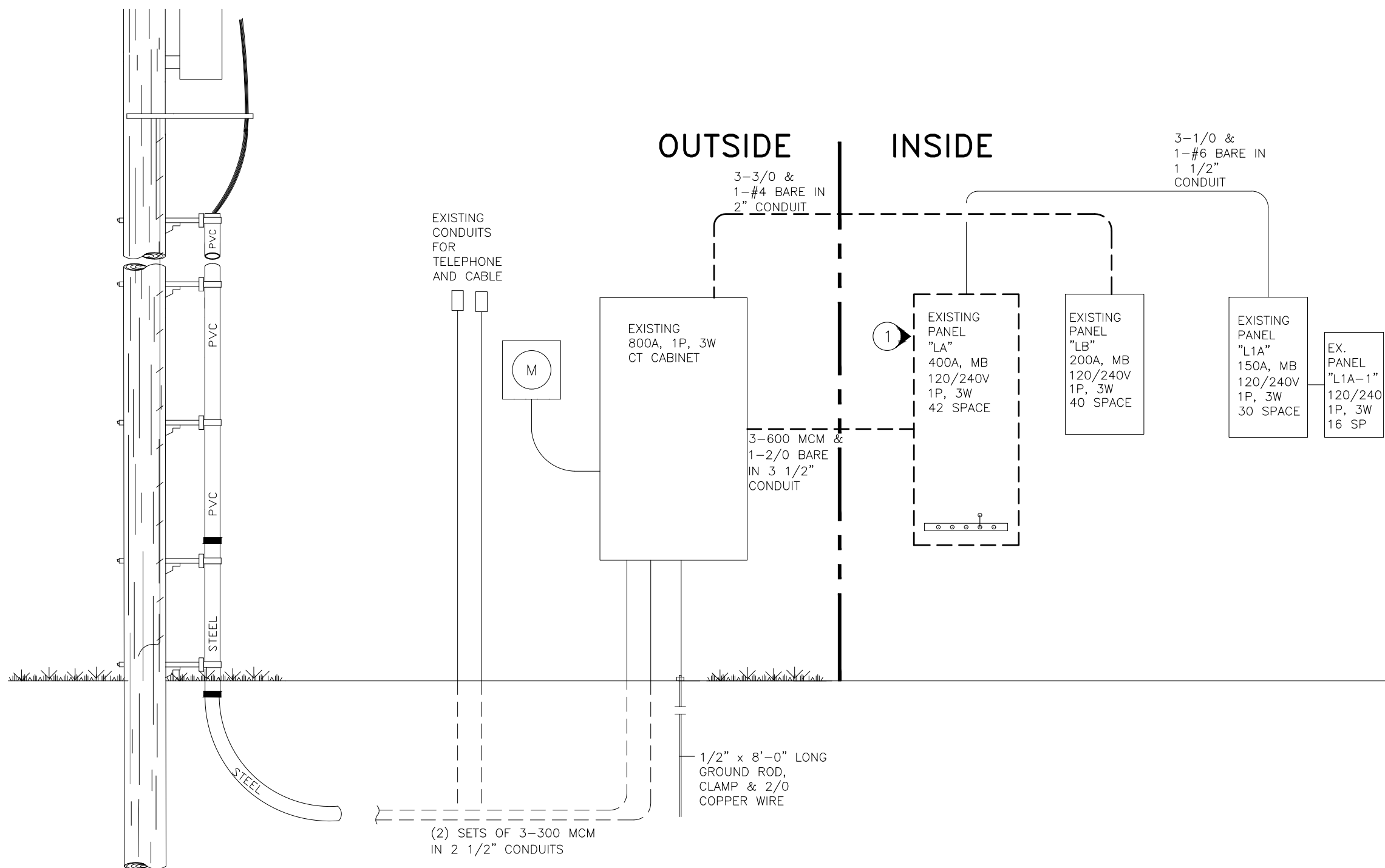


1 FIRST FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

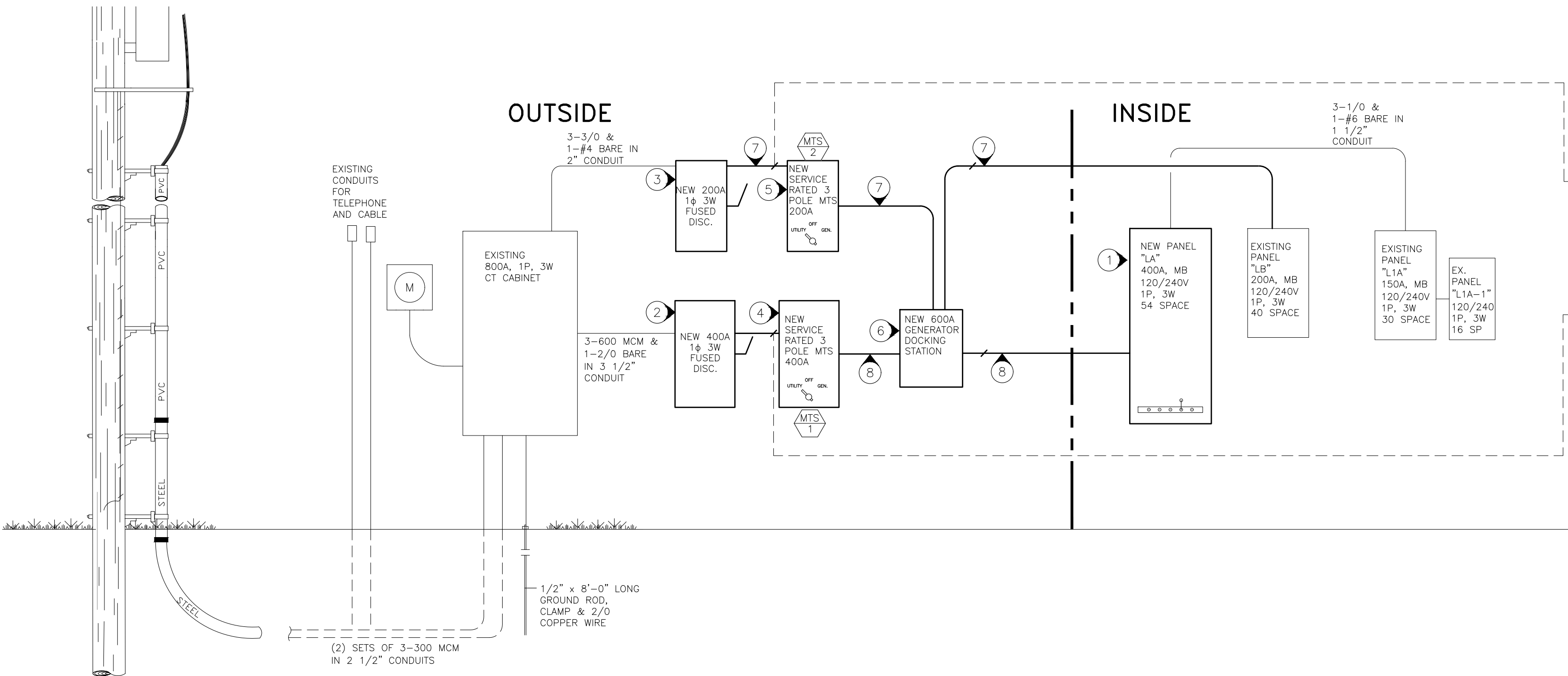


2 SECOND FLOOR ELECTRICAL POWER PLAN
SCALE: 1/8"=1'-0"

ELECTRICAL LEGEND	
	JUNCTION BOX WITH 120V. POWER
	DUPLEX RECEP.- 120V GROUNDING TYPE MOUNT ABOVE DESK-COORD. WITH SECURITY
	SECURITY CARD READER
	DATA OUTLET- ABOVE DESK
	SECURITY DOOR CONTROLLER
	NEW RECEPTACLE ABOVE CEILING



1 EXISTING ELECTRICAL RISER DETAIL
NO SCALE



2 NEW ELECTRICAL RISER DETAIL
NO SCALE

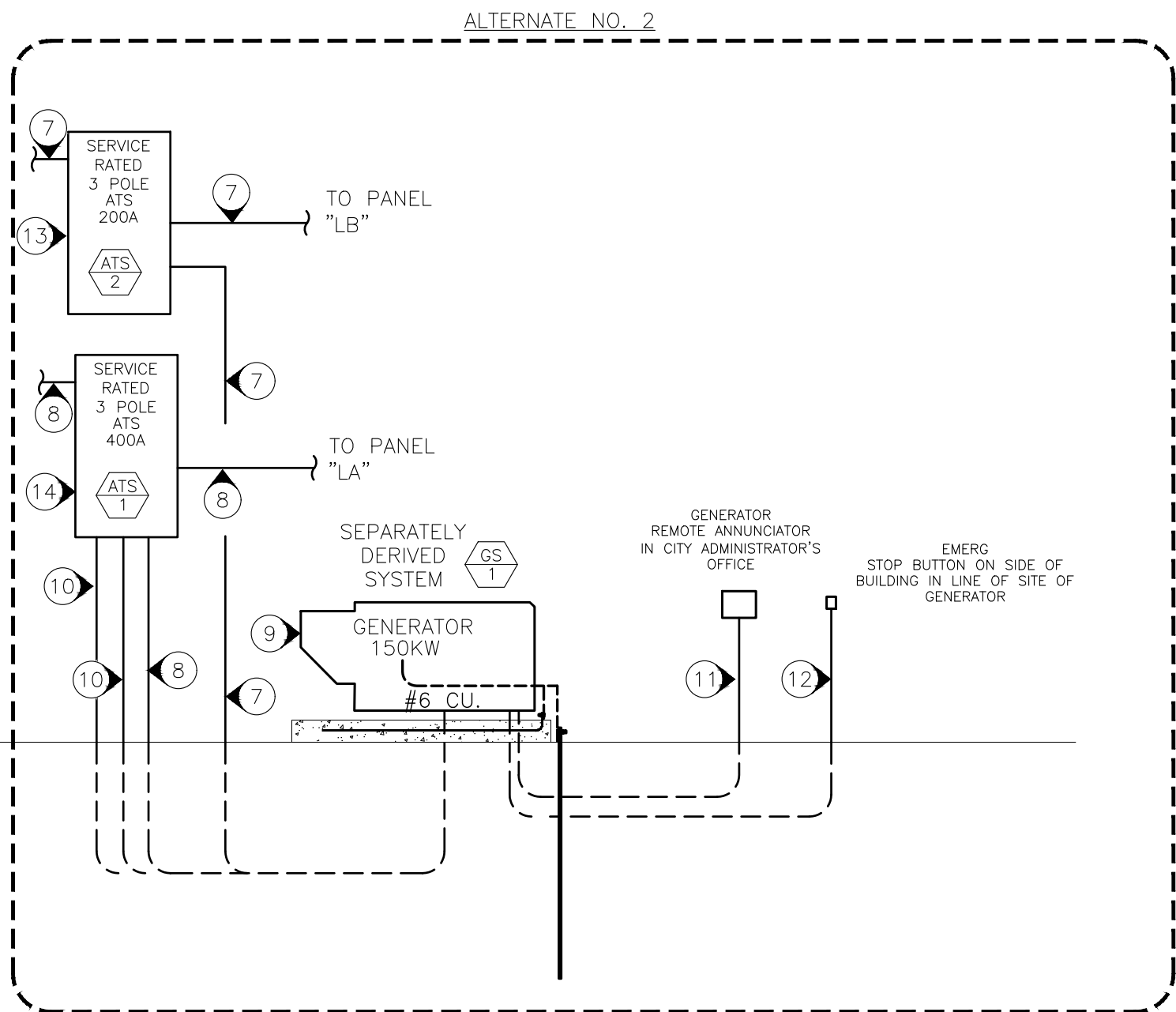
BASE BID

ALTERNATE
NO. 2

NOTES

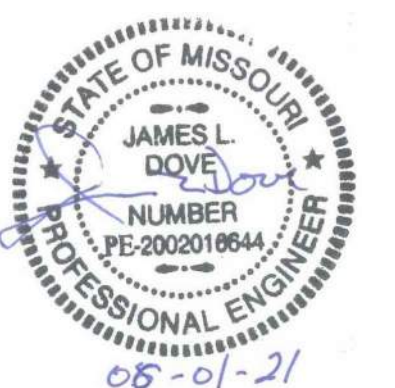
(N) INDICATES KEYED NOTES

- 1 REMOVE/REPLACE EXISTING 400A PANEL. NEW PANEL TO BE 120/240V, 400A, MAIN BREAKER, SERVICE ENTRANCE RATED, 54 SPACE, COPPER BUS, RECESSED (SCHNEIDER ELECTRIC NQ OR EQUAL). REUSE AS MANY OF THE EXISTING CIRCUIT BREAKERS AS POSSIBLE. ENSURE NEW PANEL CAN ACCEPT THE EXISTING BREAKERS BEFORE ORDERING. SUPPLY WITH BREAKERS SHOWN IN PANEL SCHEDULE.
- 2 SUPPLY AND INSTALL NEW 400A 120/240V, NEMA 3R, 3 POLE FUSED DISCONNECT (SCHNEIDER ELECTRIC OR EQUAL).
- 3 SUPPLY AND INSTALL NEW 200A 120/240V, NEMA 3R, 3 POLE FUSED DISCONNECT (SCHNEIDER ELECTRIC OR EQUAL).
- 4 SUPPLY AND INSTALL NEW SERVICE RATED, 400A, 3 POLE MANUAL TRANSFER SWITCH. SEE NOTE 7 SHEET E502
- 5 SUPPLY AND INSTALL NEW SERVICE RATED, 200A, 3 POLE MANUAL TRANSFER SWITCH. SEE NOTE 7 SHEET E502
- 6 SUPPLY AND INSTALL NEW 600A, 120/240V NEMA 3R DOCKING STATION (TRYSTAR OR EQUAL).
- 7 (3) 3/0 CU THWN AND (1) #4 CU GRND IN (1) 2" CONDUIT.
- 8 (3) 600 MCM CU THWN AND (1) #2/0 CU GRND IN (1) 3 1/2" CONDUIT.
- 9 150KW GENERATOR. BOND THE GROUND AND NEUTRAL TOGETHER AT THE GENERATOR.
- 10 RUN 1" PVC CONDUIT FROM NEW PANEL "LA" TO GENERATOR. PROVIDE (1) 120V 20A CIRCUIT FOR BATTERY CHARGER AND (1) 240V 20A CIRCUIT FOR BLOCK HEATER. INSTALL 2-#8 THWN, AND 1 #10 GRND WIRE FOR BATTERY CHARGER AND (1) SET OF 2-#10 THWN AND 1-#10 GRND WIRE FOR BLOCK HEATER.
- 11 RUN 1" PVC FROM REMOTE ANNUNCIATOR IN ADMINISTRATOR'S OFFICE TO GENERATOR. INSTALL (1) BELDEN 9841 SHIELDED TWISTED PAIR, 2-#14 AWG CONDUCTOR FOR GENERATOR.
- 12 INSTALL GENERATOR REMOTE EMERGENCY STOP ON EXTERIOR OF BUILDING WITHIN SIGHT OF THE GENERATOR. INSTALL (1) SET OF 2-#14 WIRE BACK TO GENERATOR CONTROL PANEL. UTILIZE 1" PVC CONDUIT RUN FOR REMOTE ANNUNCIATOR.
- 13 SUPPLY AND INSTALL NEW SERVICE RATED, 400A, 3 POLE AUTOMATIC TRANSFER SWITCH.
- 14 SUPPLY AND INSTALL NEW SERVICE RATED, 200A, 3 POLE AUTOMATIC TRANSFER SWITCH.



3100 Brown Station Rd. Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
Missouri State Certificate of Authority #201002467

Proposed Remodeling for:
Ashland City Hall
101 West Broadway
Ashland, Boone County, Missouri



THE PROFESSIONAL ENGINEER'S SEAL, AFFIXED TO THIS SHEET APPLIES ONLY TO THE MATERIAL AND ITEMS SHOWN ON THIS SHEET. ALL DRAWINGS, INSTRUMENTS OR OTHER DOCUMENTS NOT EXHIBITING THIS SEAL, SHALL NOT BE CONSIDERED PREPARED BY THIS ENGINEER, AND THIS ENGINEER EXPRESSLY DISCLAIMS ANY AND ALL RESPONSIBILITY FOR SUCH PLANS, DRAWINGS OR DOCUMENTS NOT EXHIBITING THIS SEAL.

THIS DRAWING AND THE DETAILS ON IT ARE THE SOLE PROPERTY OF THE ENGINEER AND MAY BE USED FOR THIS SPECIFIC PROJECT ONLY. IT SHALL NOT BE LOANED, COPIED OR REPRODUCED, IN WHOLE OR IN PART, OR FOR ANY OTHER PURPOSE OR PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. COPYRIGHT © 2010 BY MIDWEST ENGINEERING & DESIGN

DRAWINGS SHALL NOT BE SCALED. QUESTIONS ON DIMENSIONS SHALL BE REFERRED TO THE ENGINEER'S OFFICE. CONTRACTORS SHALL VERIFY AND COORDINATE ALL DIMENSIONS, DETAILS, AND JOB CONDITIONS.

Design By: MDS

Drawn By: MDS

Checked By: JLD

Revision	Date	No.

Scale: NONE

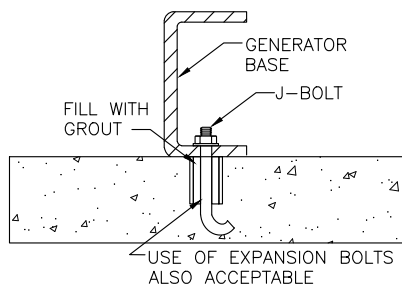
ELECTRICAL
RISER
DETAILS

Date: 20210601

E501

ELECTRICAL DEVICE SCHEDULE				
TAG	MFG	DESCRIPTION	MODEL NUMBER	REMARK
② GS 1	KOHLER	GENERATOR SET	150REOZJF 4T13X ALTERNATOR	150KW, 120/240V, 60 HZ, 1 PHASE, 3 WIRE DIESEL FUEL
③ ATS 1	KOHLER	AUTO TRANSFER SWITCH	KSS-400 STANDARD RATED 3 POLE	WITH STEEL WEATHER/SOUND ENCLOSURE SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.
③ ATS 2	KOHLER	AUTO TRANSFER SWITCH	KSS-200 STANDARD RATED 3 POLE	SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.
⑦ MTS 1	KOHLER	MANUAL TRANSFER SWITCH	KSSM-400 SERIES STANDARD RATED 3 POLE	SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.
⑦ MTS 2	KOHLER	MANUAL TRANSFER SWITCH	KSSM-200 SERIES STANDARD RATED 3 POLE	SERIES KSS AUTO TRANSFER SWITCH, NEMA 3R, W/ PROGRAMMABLE ENGINE EXERCISER.

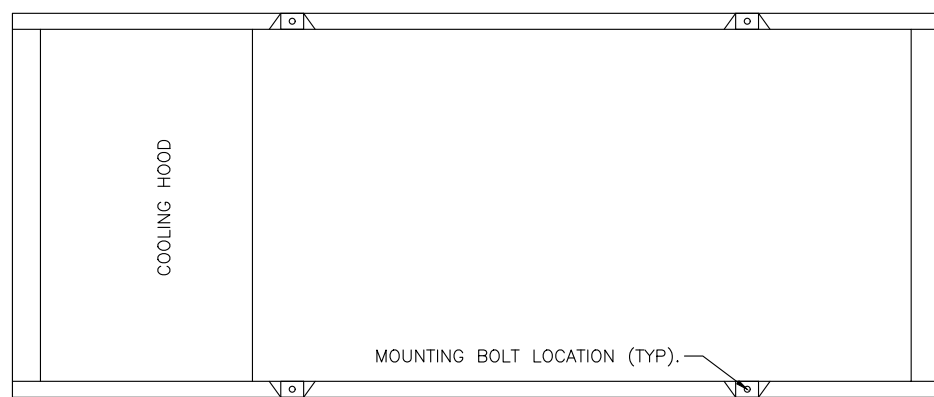
ALTERNATE NO. 2



THE SIZE OF THE BOLTS HOLDING THE SUB-BASE TO THE FOUNDATION SHOULD BE SIZED TO FIT THE MOUNTING HOLES SHOWN ON THE INSTALLATION DIAGRAM.

THREE-INCH IRON PIPE SLEEVES SHOULD BE PLACED AROUND THE BOLTS IN THE FOUNDATION TO ALLOW FOR ANY MIS-LOCATION OF THE BOLTS AFTER THE FOUNDATION HARDENS. "F" OR "C" TYPE BOLTS ARE RECOMMENDED FOR THE FOUNDATION BOLTS. AFTER THE FOUNDATION IS CURED AND THE GENERATOR IS LOCATED, THE SLEEVES ARE FILLED WITH GROUT.

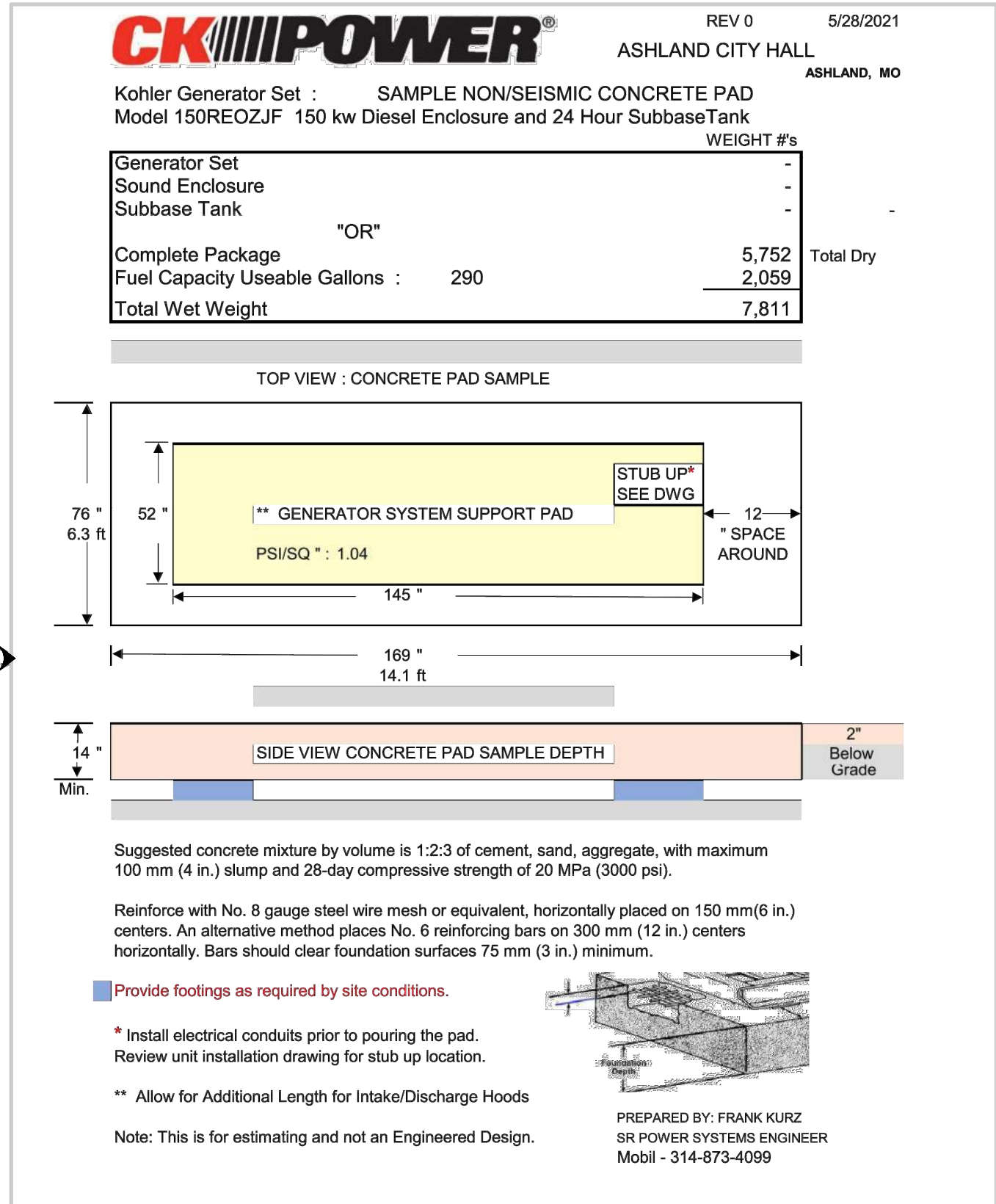
COORDINATE WITH INSTALLATION MANUAL ON MOUNTING BOLT LOCATIONS.



1 GENERATOR ANCHORING DETAIL

NONE

BID ALTERNATE NO. 2



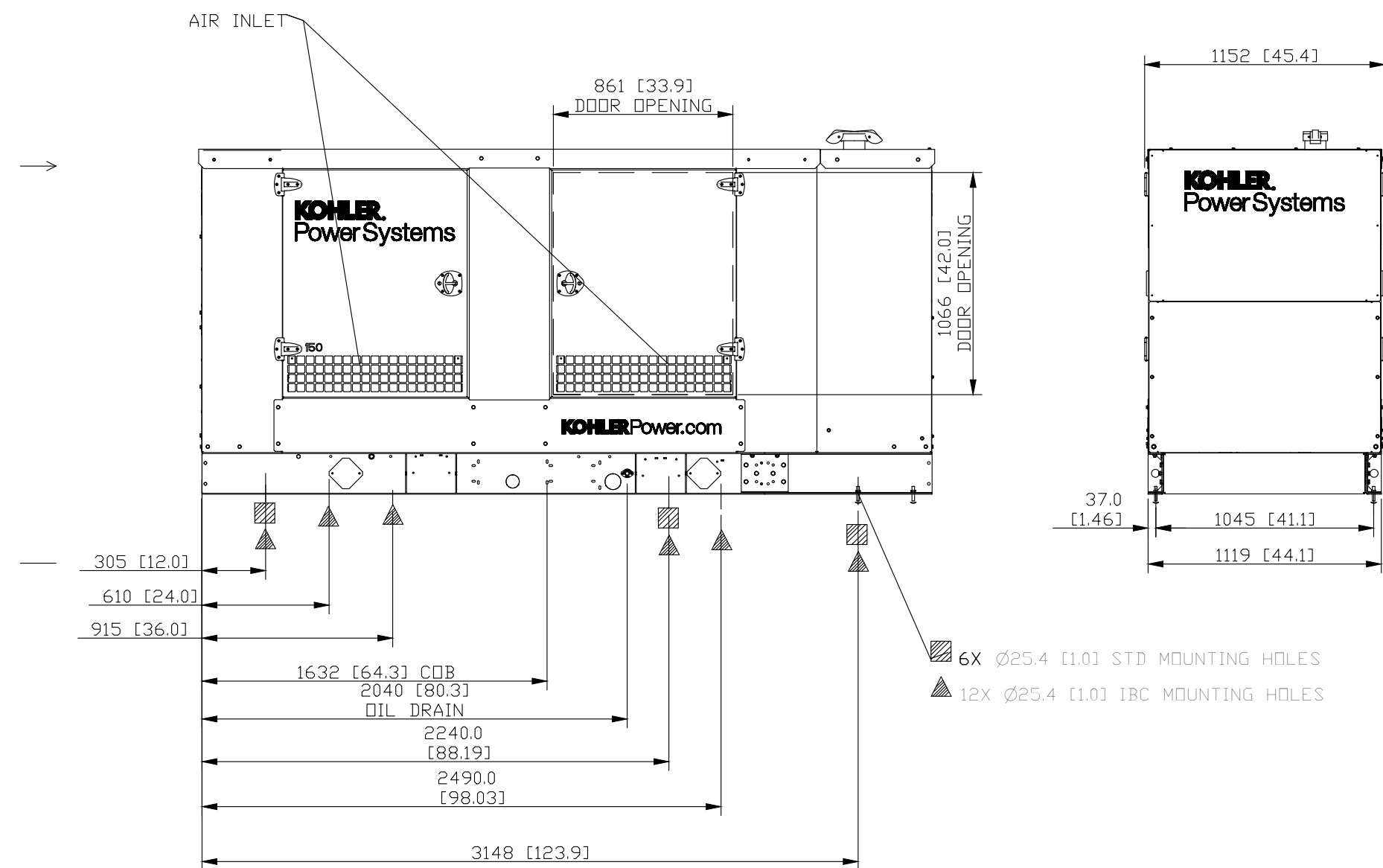
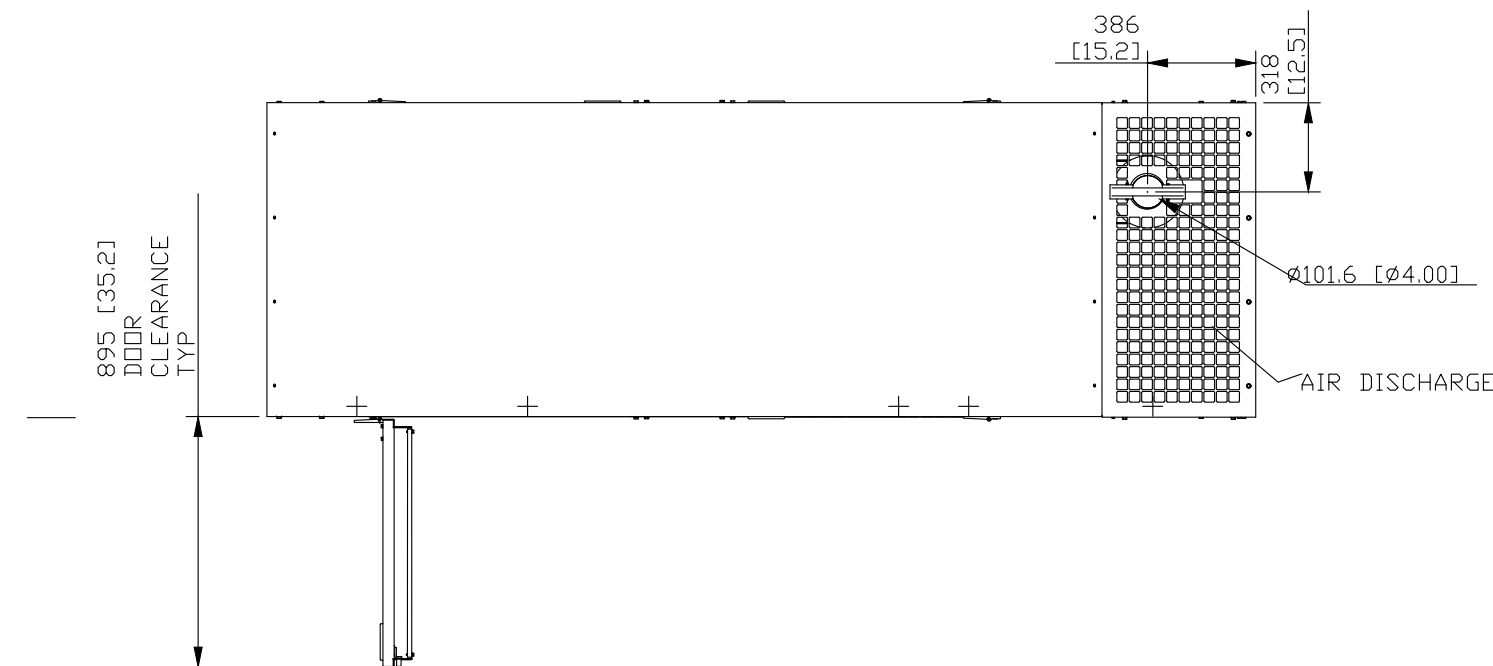
2 CONCRETE PAD FOR GENERATOR

NONE

BID ALTERNATE NO. 2

MODEL	ENCLOSURE WEIGHT KG (LBS)
STEEL WEATHER	340 (750)
STEEL SOUND	363 (800)
ALUMINUM SOUND	227 (500)

NOTE:
1. TANK (IF ORDERED) MOUNTS BELOW SKID
2. TANK MAY EXTEND BEYOND ENCLOSURE (DISCHARGE END ONLY)



3 GENERATOR ENCLOSURE DETAILS

NONE

BID ALTERNATE NO. 2

NOTES

N INDICATES KEYED NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING GENERATOR AND ASSOCIATED EQUIPMENT OR AN EQUIVALENT PRODUCT TO THE GENERATOR AND TRANSFER SWITCHES SPECIFIED BELOW. THE DIMENSIONS SHOWN ARE FOR THE SPECIFIED GENERATOR AND/OR TRANSFER SWITCHES. SUBSTITUTING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DIMENSIONAL CHANGES/COSTS DUE TO SUBSTITUTIONS.
- THE 150KW GENERATOR SHALL BE CONFIGURED AS A SEPARATELY DERIVED SYSTEM - SEE SPECIFICATIONS. THIS IS BID ALTERNATE NO. 2
- THE AUTO TRANSFER SWITCHES FOR THE GENERATOR ARE DESIGNED AROUND KOHLER KSS SERIES STANDARD ATS 400 AMP AND 200A, 3 POLE, NEMA 3R. SEE SPECIFICATIONS. THESE ARE TO BE BID ALTERNATE NO. 2.
- PROVIDE A CONCRETE GENERATOR PAD AS SHOWN WITH 12" OF CLEARANCE ALL AROUND. COORDINATE CONDUIT STUB UP LOCATIONS WITH MANUFACTURERS LAYOUT. BID ALTERNATE NO. 2
- ALL ELECTRICAL BOXES ON FIRE RATED WALLS TO RECEIVE 3M FIRE PUTTY. COORDINATE WITH ARCHITECTURAL FIRE PENETRATION DETAILS.
- PROVIDE (4) CONCRETE PIPE BOLLARDS AROUND THE PAD TO PREVENT VEHICLE TRAFFIC FROM REACH THE GENERATORS. SEE SITE PLAN E100. BID ALTERNATE NO. 2
- BASE BID: PROVIDE A 400 AND 200 AMP MANUAL TRANSFER SWITCH, ELECTRICALLY OPERATED IN A NEMA 3R ENCLOSURE, MODEL KOHLER KSS-M OR ASCO 300-M. INCLUDE A 400 AMP AND 200 AMP, MALE CAM LOCK BOX WITH PERSONNEL DOOR AND CABLE DOOR IN A NEMA 3R ENCLOSURE.

Scale: VARIES

EMERGENCY GENERATOR DETAILS

Date: 20210601

E502

NEW PANEL WITH NEW/EXISTING CIRCUITING

PANEL DESIGNATION: "LA"		PANEL LOCATION: WORKOUT ROOM NORTH WALL				TOTAL VOLTAMPS THIS PANEL				90296	
VOLTAGE: 240 1 PHASE 3 WIRE		MOUNTING: RECESSED PANEL SPACES: 42				TOTAL CONNECTED LOAD (AMPS)				376	
CIRCUIT DESIGNATION		WIRE	TRIP	CONNECTED LOAD		CKT. NO.	CONNECTED LOAD		TRIP	WIRE	CIRCUIT DESIGNATION
				A	B		A	B			
F-1 (STORAGE 134)	#12	20A1/P		1296		1 2	18250			150A2/P	PANEL "LA-1"
CU-1 (OUTSIDE NORTH)	#10	45A2/P			2664	3 4		17430			
	#10			2664		5 6				150A2/P	
F-2 (STORAGE ROOM)	#12	15A1/P			948	7 8					
CU-2 (OUTSIDE NORTH)	#10	35A2/P		2129		9 10	948			20A1/P	F-3 (STORAGE ROOM)
	#10				2129	11 12		1200		20A1/P	H-A/C-4
H-A/C-5		20A1/P		1200		13 14	2500			60A2/P	CONDENSER 4 (5 TON)
CONDENSER 5 (5 TON)		60A2/P			2500	15 16		2500			
				2500		17 18	2129			35A2/P	CU-3 (OUTSIDE NORTH)
BREAK RM DED. OUTLET	#10	20A1/P			1200	19 20		2129			#10
BREAK RM DED. OUTLET	#10	20A1/P		1200		21 22	2664			45A2/P	CU-4 (OUTSIDE NORTH)
BREAK RM DED. OUTLET	#10	20A1/P			1200	23 24		2664			#10
RECEPT. SERVER SOUTH		20A1/P		400		25 26	300			30A1/P	TWISTLOCK-SERVER SOUTH
RECEPT. SERVER WEST		20A1/P			400	27 28		800		30A1/P	TWISTLOCK-SERVER WEST
RECEPT. SERVER NORTH		20A1/P		400		29 30	300			30A1/P	TWISTLOCK-SERVER NORTH
EV STORAGE RECEPTACLE	#12	20A1/P			1260	31 32		1296		20A1/P	#12 F-4 (JANITOR 122)
UNKNOWN BREAKER IS ON		20A1/P		500		33 34	941			25A2/P	#12 F-3 (OUTSIDE ROOF)
UNKNOWN BREAKER IS ON		20A1/P			1200	35 36		941			#12
SPARE (BREAKER IS ON)?		20A1/P		850		37 38	250			15A2/P	ERU-1 (RECORDS 142)
SPARE (BREAKER IS ON)?		20A1/P			800	39 40		250			#12
SPARE (BREAKER IS ON)?		20A20A		1000		41 42	864			20A1/P	#12 BP-1 (STORAGE 134)
SPARE		20A1/P				43 44	1500			20A1/P	#12 GENERATOR BATT CHARGER
SPARE		20A1/P				45 46		1000		20A2/P	#10 GENERATOR BLOCK HEATER
SPARE		20A1/P				47 48	1000				#10
SPARE		20A1/P				49 50				20A1/P	SPARE
SPARE		20A1/P				51 52				20A1/P	SPARE
SPARE		20A1/P				53 54				20A1/P	SPACE
				14139				31646			PHASE A 45785
					14301				30210		PHASE B 44511

EXISTING PANELS WITH NEW CIRCUITING												
PANEL DESIGNATION: "LB"		PANEL LOCATION: WORKOUT ROOM NORTH WALL				TOTAL VOLTAGPS THIS PANEL		47268				
VOLTAGE:240 1PHASE 3WIRE		MOUNTING:		RECESSED		PANEL SPACES:40		TOTAL CONNECTED LOAD (AMPS)		197		
MAINS: 200 A MAIN BREAKER		CONNECTED LOAD				CIRCUIT DESIGNATION						
CIRCUIT DESIGNATION		WIRE	TRIP	A	B	CKT. NO.	A	B	TRIP	WIRE	CIRCUIT DESIGNATION	
EMERGENCY LIGHTS				500		1 2	1800			20A/1P	#12	RECEPTACLES RM 119, 125
EAST HALF LIGHTS		#12	20A/1P		1740	3 4		500		20A/1P		LIGHTS
WEST HALF LIGHTS		#10	20A/1P	1790		5 6	500			20A/1P		LIGHTS
SQUAD ROOM RECEPTACLES		#12	20A/1P		1080	7 8		1260		20A/1P		RECEPT 014.021.022.024
RECEPTACLES			20A/1P	850		9 10	1000			20A/1P		RESTROOM RECEPTACLE
RECEPTACLES RM 117, 120		#12	20A/1P		1440	11 12		1200		20A/1P		RECEPTACLES
RECEPTACLES RM 125		#12	20A/1P	1620		13 14	1260			20A/1P	#12	RECEPTACLES RM 141, 142, 125
RECEPTACLES 018 019			20A/1P		1260	15 16		540		20A/1P	#10	RECEPTACLES CHIEF 133
RECEPTACLES RM 132			20A/1P	900		17 18	1200			20A/1P		RECEPTACLES
RECEPTACLES			20A/1P		900	19 20		850		20A/1P		RECEPTACLES
RECEPTACLES 014			20A/1P	900		21 22	850			20A/1P		RECEPTACLES 014
BREAK ROOM 126 RECEPTACLE		#12	20A/1P		1000	23 24		1200		20A/1P		RECEPTACLES
BREAK ROOM 126 RECEPTACLE		#12	20A/1P	1000		25 26	1200			20A/1P		RECEPTACLES
HP-1 (OUTSIDE ROOF)												
		#12	30A/2P		1842	27 28		1000		20A/1P	#12	DEDICATED RECEPTACLE
		#12		1842		29 30	1000			20A/1P	#12	DEDICATED RECEPTACLE
HP-2 (OUTSIDE NORTH)		#10	45A/2P		2422	31 32		1000		20A/1P	#10	COPY MACHINE RECEPTACLE
		#10		2422		33 34	1000			20A/1P	#10	BREAK RM REFR - RECEPTACLE
SOFTNER			20A/2P		1000	35 36		850		20A/1P		RECEPTACLES 019
				1000		37 38	850			20A/1P		RECEPTACLES
RECEPTION 129 RECEPTACLES		#10	20A/1P		1440	39 40		1260		20A/1P	#12	RECEPTACLES RM 138, 140
				12624			10660					
					14124			9660				
										PHASE A	23484	
										PHASE B	23784	

NO NEW PANEL "LA1" UPDATES TO SHOW.

ANAL DESIGNATION: "LA1-1"		PANEL LOCATION: BANK MECHANICAL ROOM				TOTAL VOLTAMPS THIS PANEL		10030			
VOLTAGE 240 1 PHASE 3 WIRE		MOUNTING: SURFACE				TOTAL CONNECTED LOAD (AMPS)		42			
MAINS: 125 A MAIN LUG ONLY		PANEL SPACES: 30									
		CONNECTED LOAD				CONNECTED LOAD					
CIRCUIT DESIGNATION		WIRE	TRIP	A	B	CKT. NO.	A	B	TRIP	WIRE	CIRCUIT DESIGNATION
NEW OFFICE OUTLETS		20A/1P		850		1 2	500		20A/1P		ATM LIGHTS
SPARE		20A/1P				3 4		500	20A/1P		OUTLET UNDER WINDOW-RIGHT
ATM POWER		20A/1P		650		5 6	360		20A/1P		OUTLET UNDER WINDOW-LEFT
TELLER DRIVE THROUGH		20A/1P			1000	7 8		1800	20A/1P		MICROWAVE-COFFEE POT
WH-1		20A/2P		2000		9 10	370		20A/1P	#12	NEW DRINKING FOUNTAIN
BLANK					2000	11 12			20A/1P		BLANK
BLANK						13 14			20A/1P		BLANK
BLANK						15 16			20A/1P		BLANK
				3500			1230				PHASE A 4730
					3000			2300			PHASE B 5300

 INDICATES KEYED NOTES

- 
- Midwest
Engineering
& Design**
- 3100 Brown Station Rd. Suite C
Columbia, MO. 65202
(573) 875-0045 Phone
(573) 875-0046 FAX
WWW.MOENGINEERING.COM
- Midwest Engineering & Design*
Missouri State Certificate of Authority #2010032467

DRAWINGS SHALL NOT BE SCALED.
QUESTIONS ON DIMENSIONS SHALL BE
REFERRED TO THE ENGINEER'S OFFICE.
CONTRACTORS SHALL VERIFY AND
COORDINATE ALL DIMENSIONS, DETAILS,
AND JOB CONDITIONS.

E601