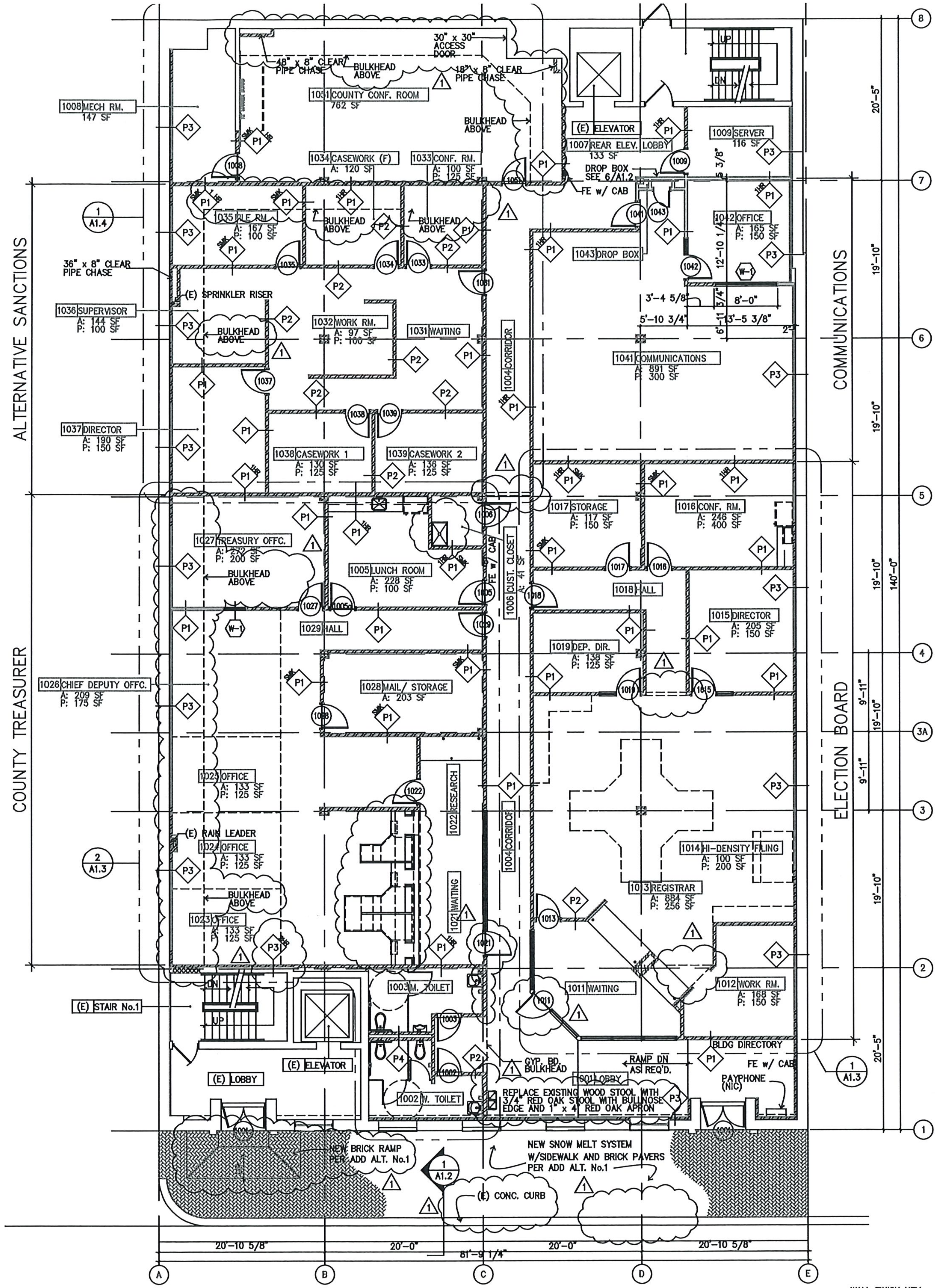
APPENDIX 2

Washington County Government – Floor Plans and Inventory Sheets

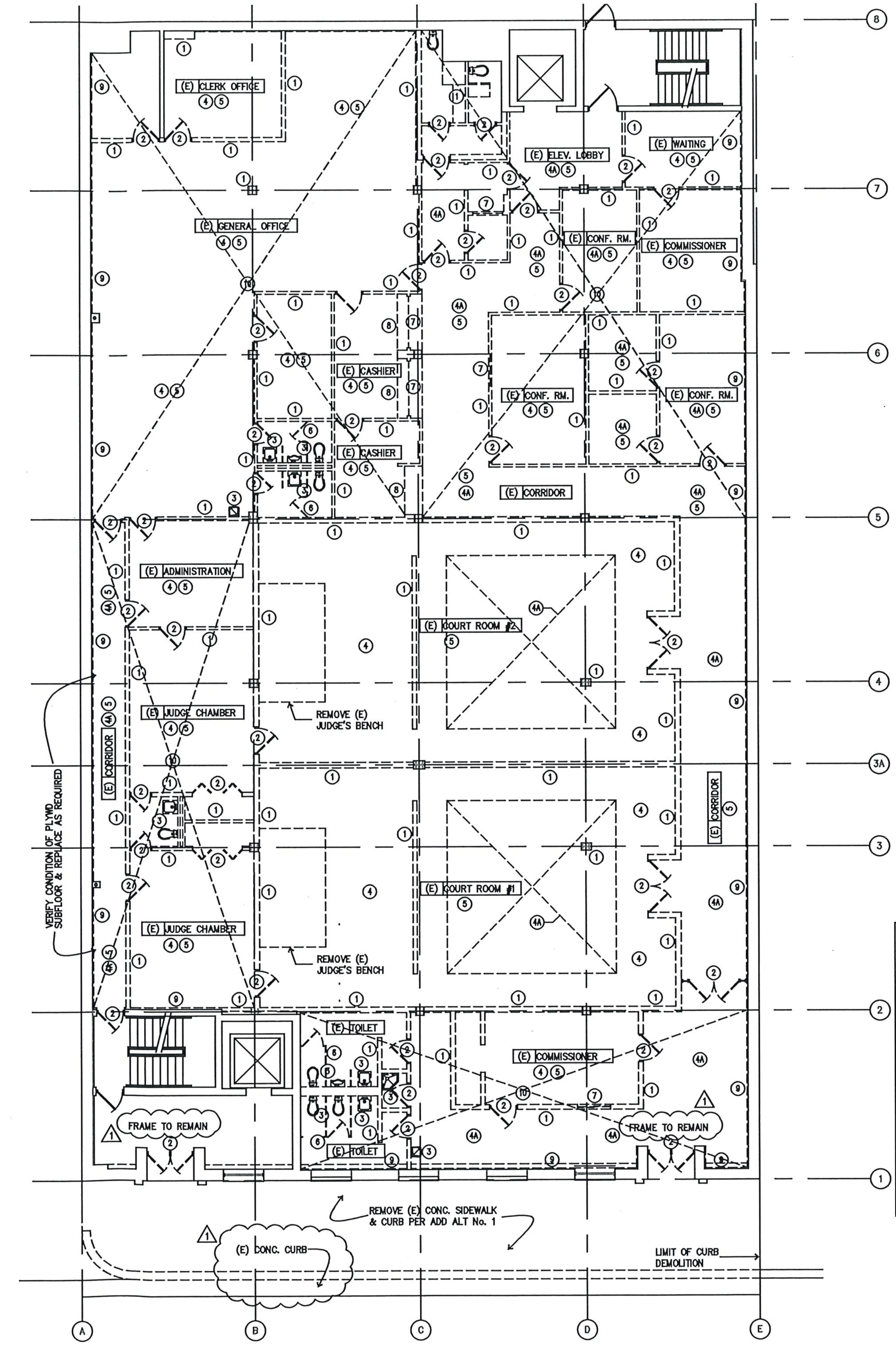


PROPOSED FLOOR PLAN

1/8" = 1'-0"

2 A1.1

WALL FINISH KEY



DEMOLITION PLAN

1/8" = 1'-0"

1 A1.1

DEMOLITION NOTES

1. REMOVE (E) WALL– PATCH & REPAIR ADJACENT WALLS & FLOOR
2. REMOVE (E) DOOR & FRAME– PATCH & REPAIR ADJACENT WALLS & FLOOR
3. REMOVE (E) PLUMBING FIXTURE – REFER TO MECHANICAL DRAWINGS
4. REMOVE (E) CARPET –PREPARE SLAB FOR NEW FINISH
4A. REMOVE (E) VINYL COMPOSITION TILE –PREPARE SLAB FOR NEW FINISH
5. REMOVE (E) CEILING FINISH– PATCH & REPAIR ADJACENT WALLS
6. REMOVE (E) TOILET PARTITION REPAIR ADJACENT WALLS
7. REMOVE (E) WINDOW & GLAZING REPAIR ADJACENT WALLS
8. REMOVE (E) CASEWORK– PATCH & REPAIR ADJACENT WALLS
9. REMOVE (E) FURRING & INSULATION PREPARE FOR NEW CONST.
10. REMOVE (E) PLASTER CEILING ABOVE LAY IN CEILING

1 5-3-02 UPDATE PER ADDENDI 1 & 2 AND AS BUILT

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DEMOLITION & PROPOSED PLA

A1.1

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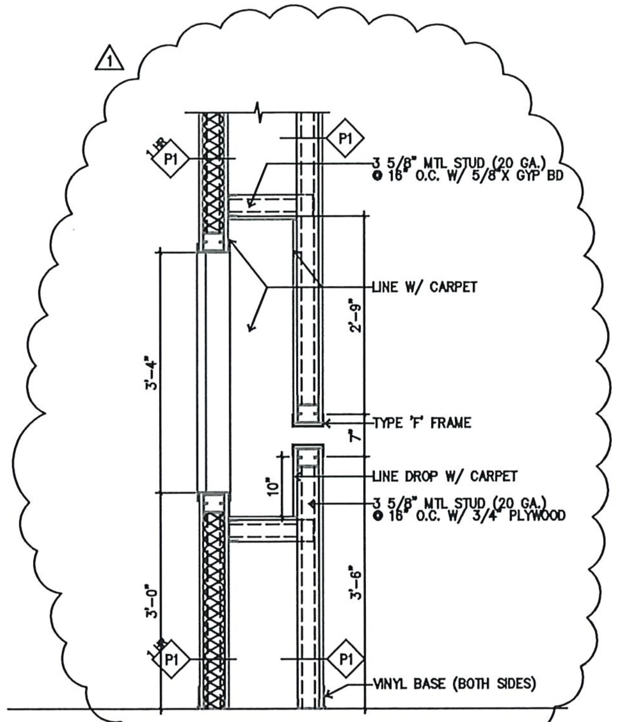
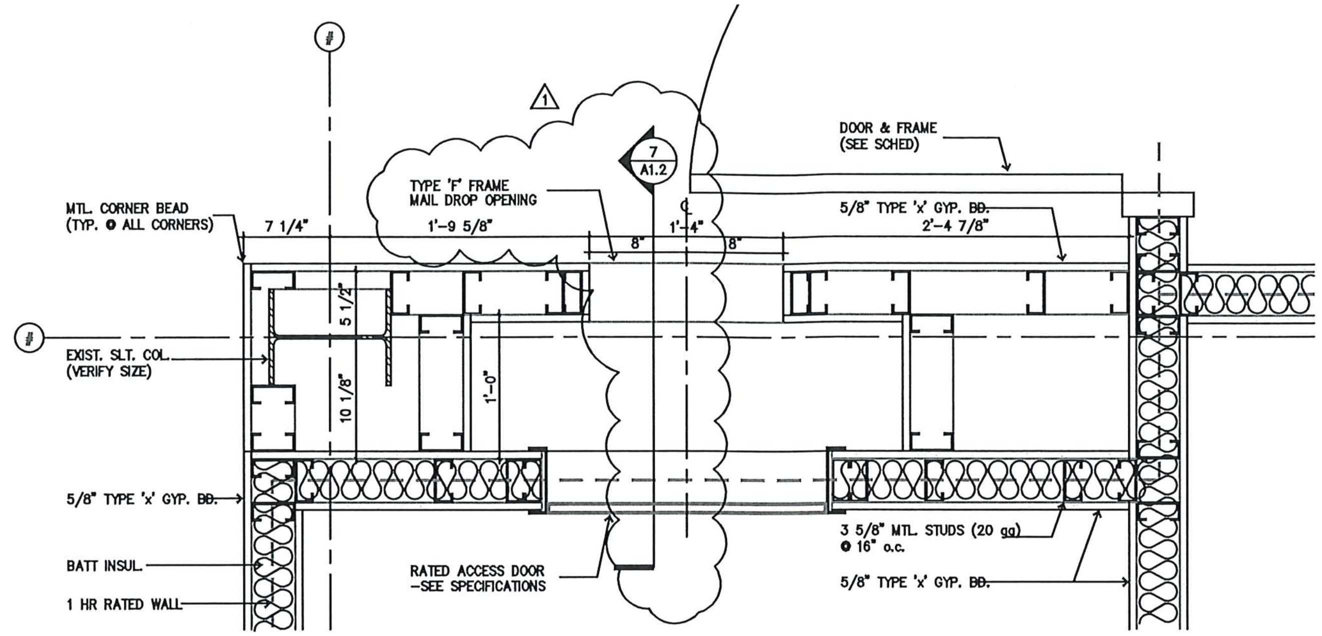
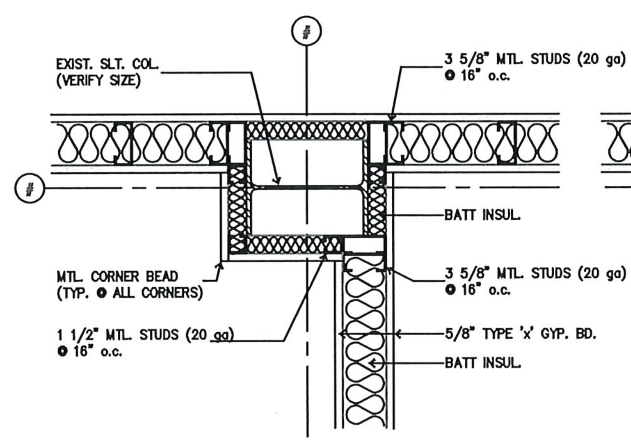


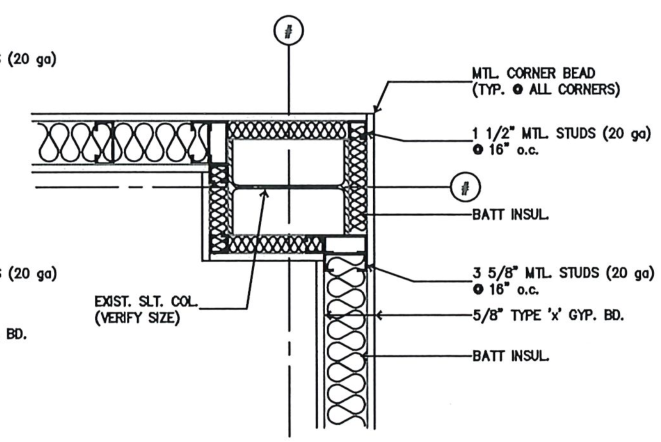
SECTION DETAIL @ MAIL DROP
1 1/2" = 1'-0"
7
A1.2



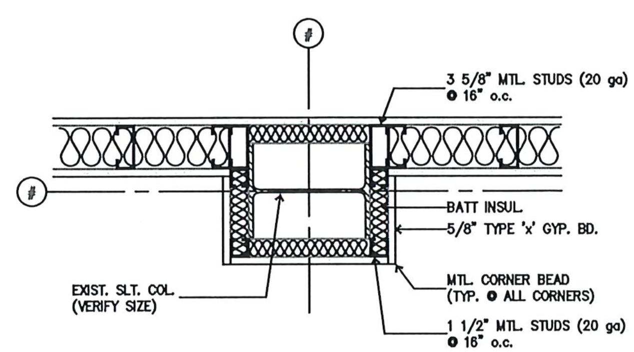
PLAN DETAIL @ MAIL DROP
1 1/2" = 1'-0"
6
A1.2



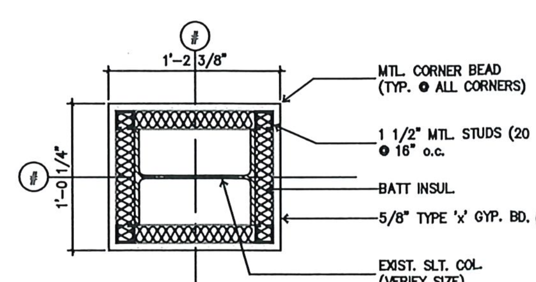
PLAN DETAIL @ COL.
1 1/2" = 1'-0"
5
A1.2



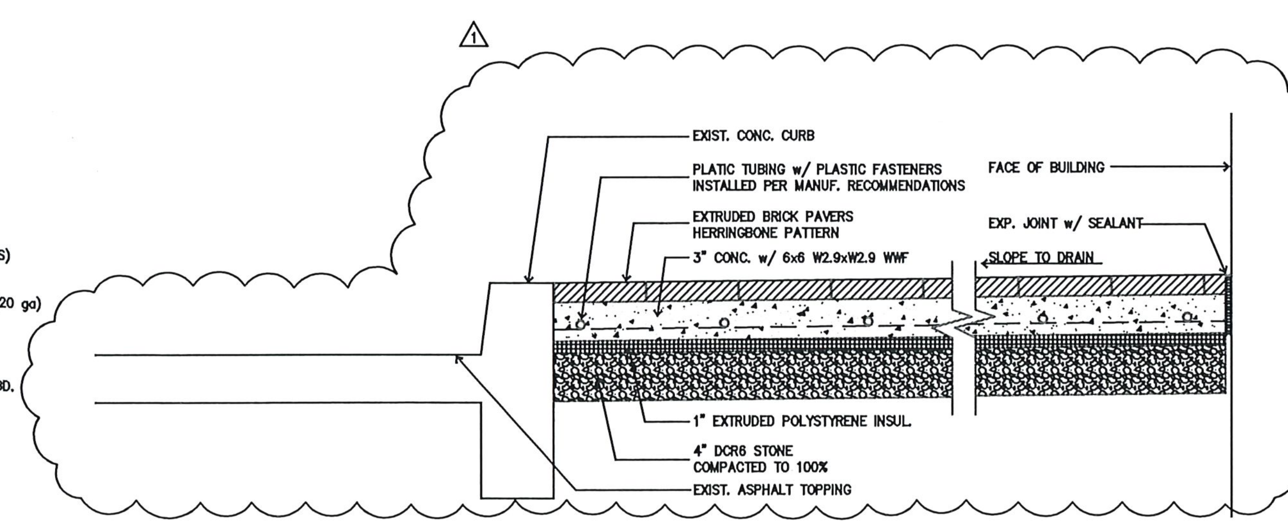
PLAN DETAIL @ COL.
1 1/2" = 1'-0"
4
A1.2



PLAN DETAIL @ COL.
1 1/2" = 1'-0"
3
A1.2



PLAN DETAIL @ COL.
1 1/2" = 1'-0"
2
A1.2



SECTION DETAIL @ SIDEWALK
1 1/2" = 1'-0"
1
A1.2

1 5-3-02
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1 & 2 AND AS BUILT

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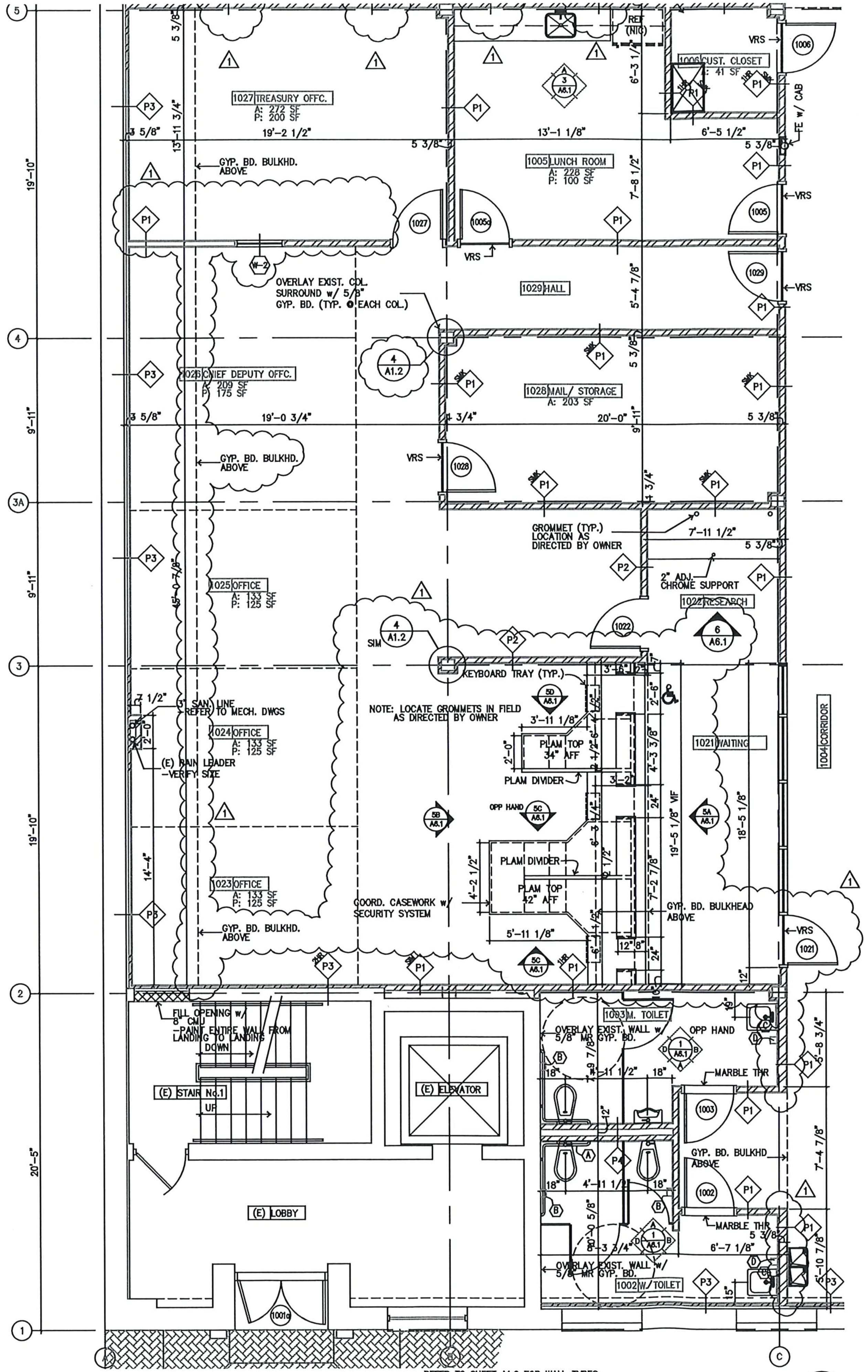
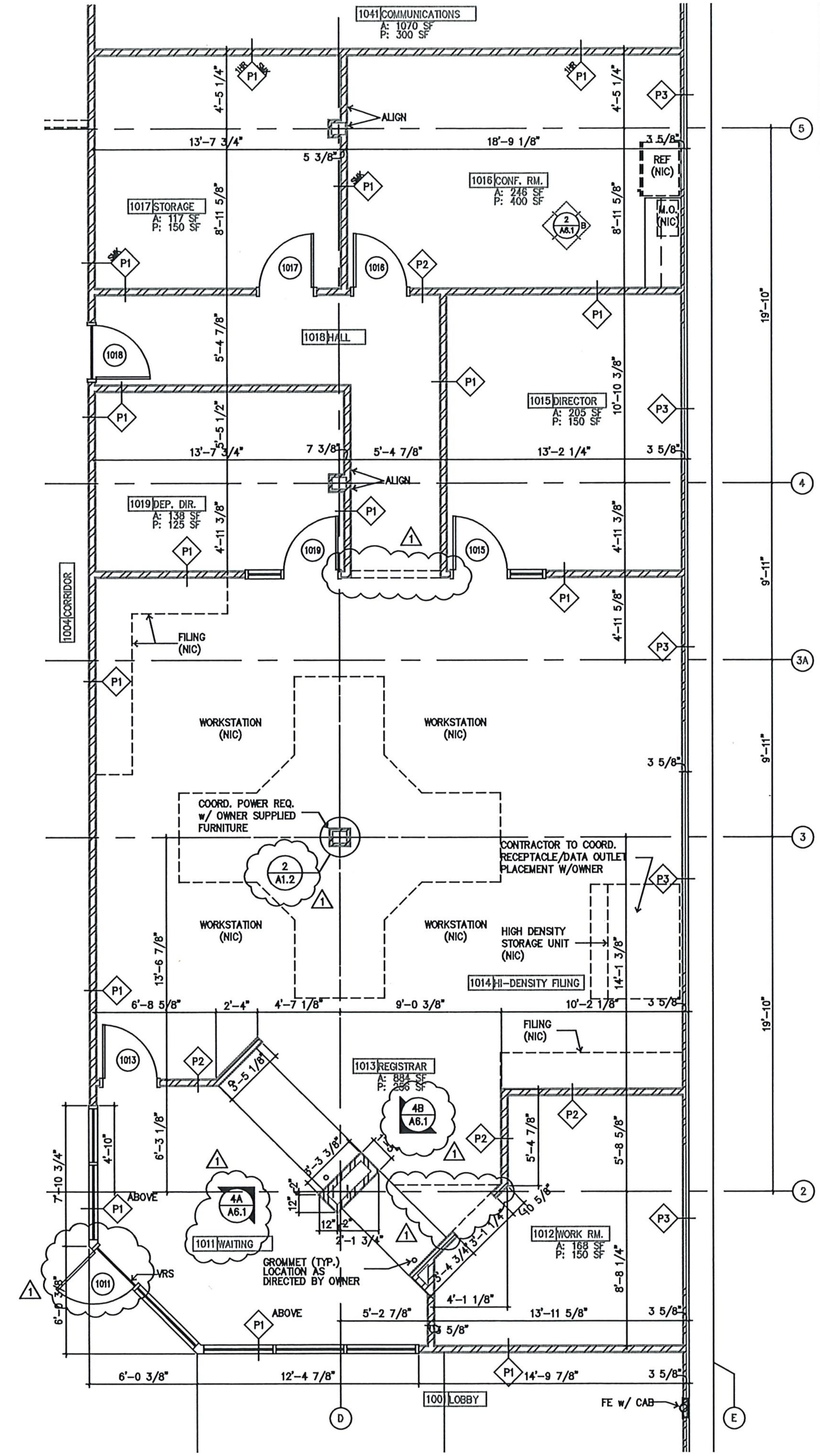
MISC DETAILS
A1.2



REFER TO SHEET A1.2 FOR WALL TYPES
PARTIAL FLOOR PLAN 2



REFER TO SHEET A1.2 FOR WALL TYPES
PARTIAL FLOOR PLAN 1
1/4" = 1'-0"

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ENLARGED FLOOR PLAN

A1.3

5 OF 26 SHEE

△1 5-3-02
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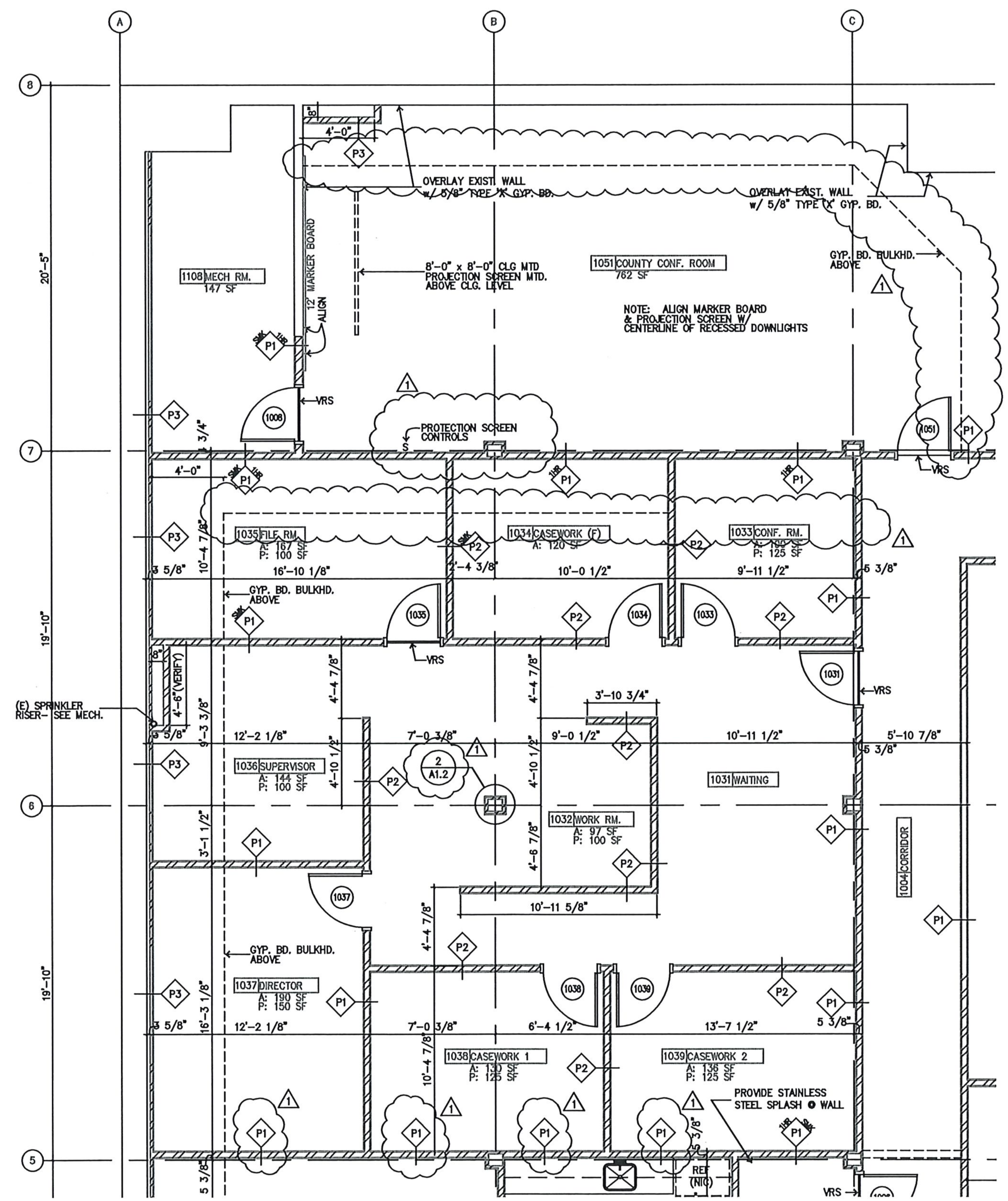
1 & 2 AND AS BUILT



REFER TO SHEET A1.2 FOR WALL TYPES

PARTIAL FLOOR PLAN

1/4" = 1'-0"

1 / A1.4

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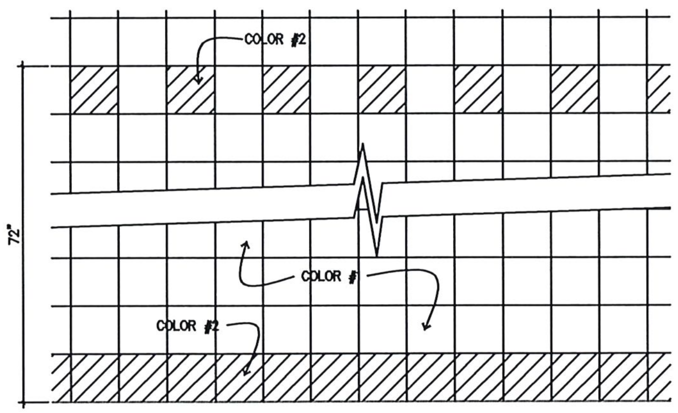
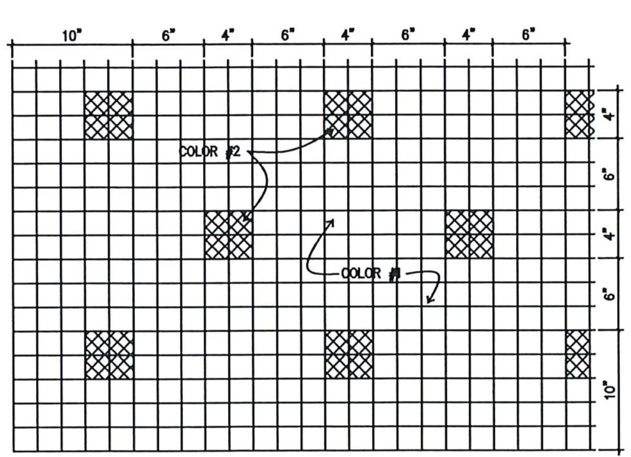
ENLARGED FLOOR PLAN

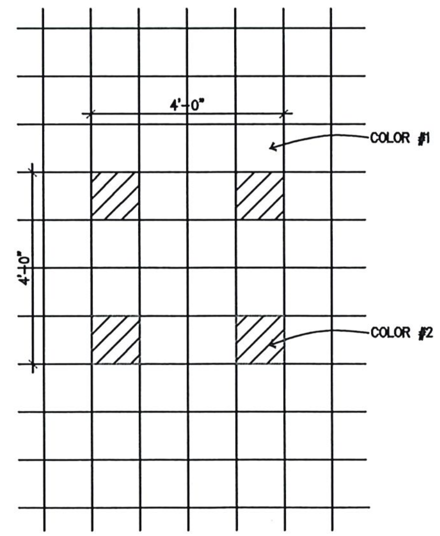
A1.4



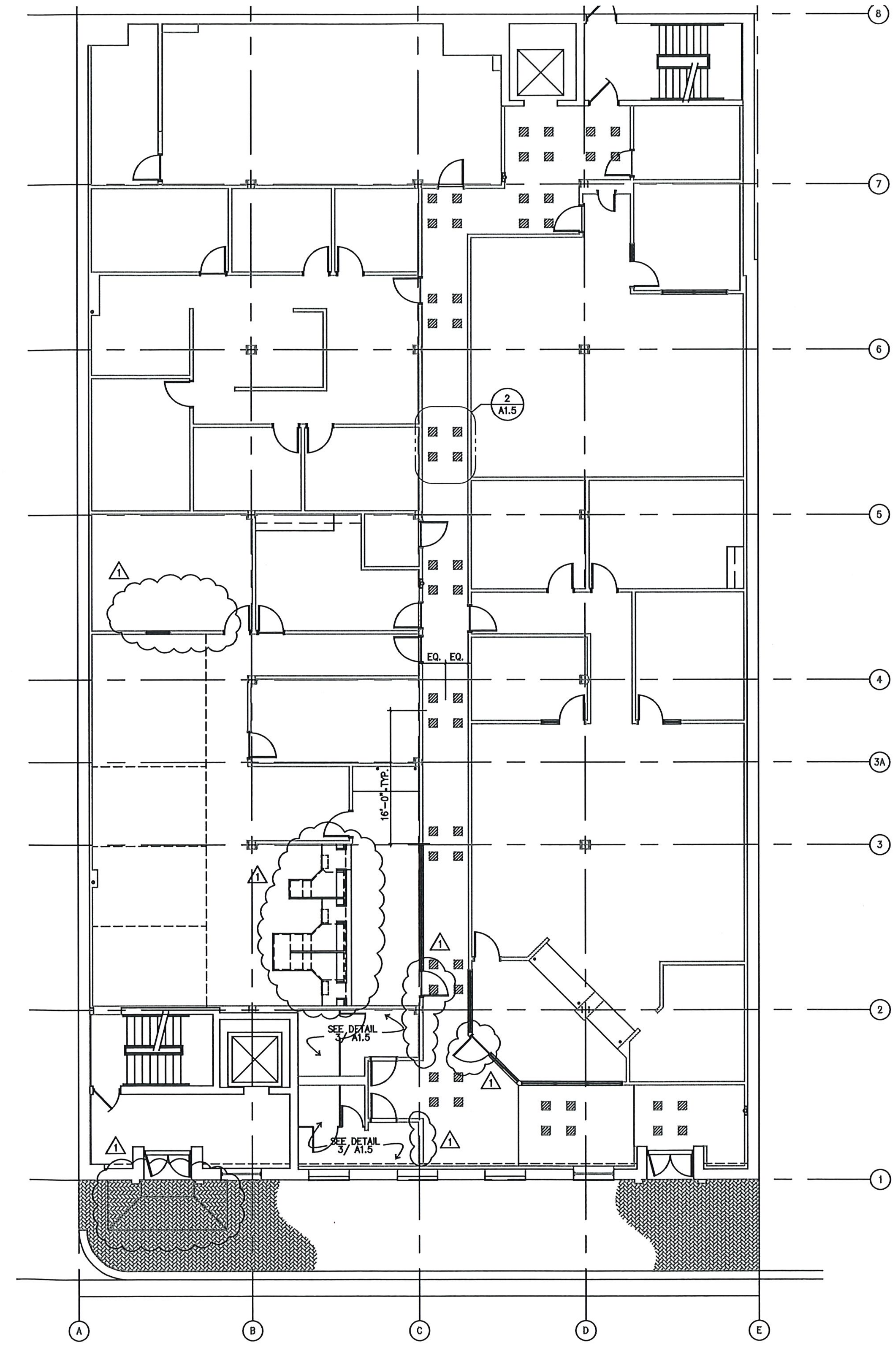
CERAMIC TILE PATTERN DETAIL– WALL
1 1/2" = 1'–0"
3
A1.5



CERAMIC TILE PATTERN DETAIL– FLOOR
1 1/2" = 1'–0"
3
A1.5



VCT PATTERN DETAIL
1/2" = 1'–0"
2
A1.5



FLOOR PATTERN PLAN
1/8" = 1'–0"
0 5 10 15 20
1
A1.5

1 5–3–02
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1 & 2 AND AS BUILT

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FLOOR PATTER
PLAN

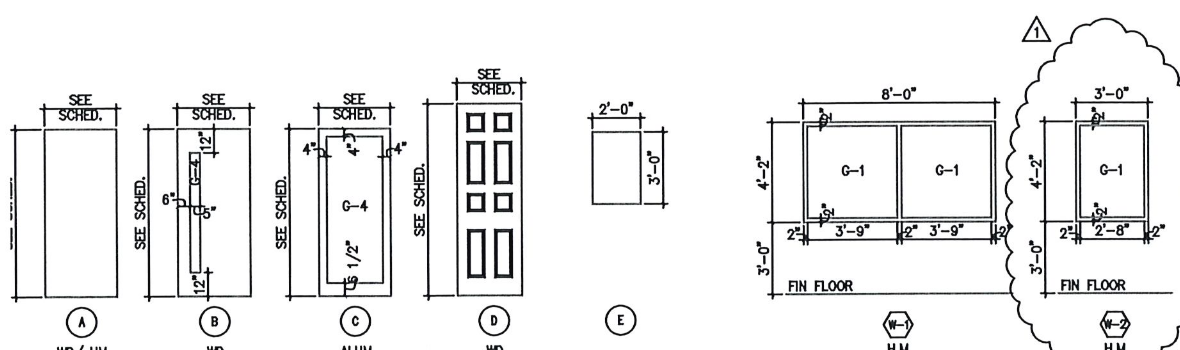
A1.5

DOOR SCHEDULE

NO	ROOM LOCATION	DOOR SIZE	DOOR TYPE	DOOR MAT'L.	DOOR GLAZ	FRAME TYPE	FRAME MAT'L.	FRAME WIDTH	FRAME GLAZ	DETAILS (REFER TO A2.2) JAMB	DETAILS HEAD	DETAILS THRS	HARD-WARE	SIGNAGE	LABEL	REMARKS
1001	LOBBY	(2) 2'-8"x8'-0"	D	WD	–	(E)	WD.	(E)	–	(E)	(E)	(E)	8		1	COORD. w/ ELEC.
1001a	ELEVATOR LOBBY	(2) 2'-8"x8'-0"	D	WD	–	(E)	WD.	(E)	–	(E)	(E)	(E)	8			COORD. w/ ELEC.
1002	WOMEN'S TOILET	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		7	WOMEN		
1003	MEN'S TOILET	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		7	MEN		
1005	LUNCH ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		1	STAFF ONLY		
1005a	LUNCH ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		5	LUNCH ROOM		KEYPAD IN LUNCH ROOM
1006	CUSTODIAL CLOSET	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		10	CUSTODIAL CLOSET	3/4 HR	
1008	MECHANICAL ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		6	MECHANICAL ROOM	3/4 HR	
1009	SERVER ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		5	STAFF ONLY	3/4 HR	
1011	WAITING	3'-0" x 7'-0"	C	ALUM.	–	B	ALUM.	4 1/2"	–	3	4		11	ELECTIONS		
1013	REGISTRAR	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		2	STAFF ONLY		
1015	DIRECTOR	3'-0" x 7'-0"	B	WD.		D	H.M.	5 3/4"	–	1	2		2	DIRECTOR		
1016	CONFERENCE ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		3	CONFERENCE ROOM		
1017	STORAGE	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		4	STORAGE	SMOKE	
1018	HALL	3'-0" x 7'-0"	B	WD.	–	A	H.M.	5 3/4"	–	1	2		1	STAFF ONLY		
1019	DEPUTY DIRECTOR	3'-0" x 7'-0"	B	WD.		D	H.M.	5 3/4"	–	1	2		2	DEPUTY DIRECTOR		
1021	WAITING	3'-0" x 7'-0"	C	ALUM.	–	C	ALUM.	4 1/2"	–	3	4		11	TREASURER		
1022	RESEARCH	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		2	STAFF ONLY		COORD. w/ ELEC.
1027	TREASURY OFFICE	3'-0" x 7'-0"	B	WD.		A	H.M.	5 3/4"	–	1	2		2	TREASURER		
1028	MAIL/ STORAGE	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		4	MAIL ROOM	SMOKE	
1029	HALL	3'-0" x 7'-0"	B	WD.	–	A	H.M.	5 3/4"	–	1	2		1	STAFF ONLY		
1031	WAITING	3'-0" x 7'-0"	B	WD.	–	A	H.M.	5 3/4"	–	1	2		1	ALTERNATIVE SANCTIONS		
1033	CONFERENCE ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		3	CONFERENCE ROOM		
1034	CASEWORK (FUTURE)	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		2			
1035	FILE ROOM	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		4		SMOKE	
1037	DIRECTOR	3'-0" x 7'-0"	B	WD.		A	H.M.	5 3/4"	–	1	2		2	DIRECTOR		
1038	CASEWORK 1	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		2	CASEWORK		
1039	CASEWORK 2	3'-0" x 7'-0"	A	WD.	–	A	H.M.	5 3/4"	–	1	2		2	CASEWORK		
1041	COMMUNICATIONS	3'-0" x 7'-0"	B	WD.	–	A	H.M.	5 3/4"	–	1	2		1	STAFF ONLY	3/4 HR	
1042	OFFICE	3'-0" x 7'-0"	C	WD.	–	D	H.M.	5 3/4"	–	1	2		2			
1043	DROP BOX	2'-0" x 3'-0"	E	HM	–	E	H.M.	5 3/4"	–	1	2		9			
1051	CONFERENCE ROOM	3'-0" x 7'-0"	B	WD.	–	A	H.M.	5 3/4"	–	1	2		1	CONFERENCE ROOM		

ROOM FINISH SCHEDULE

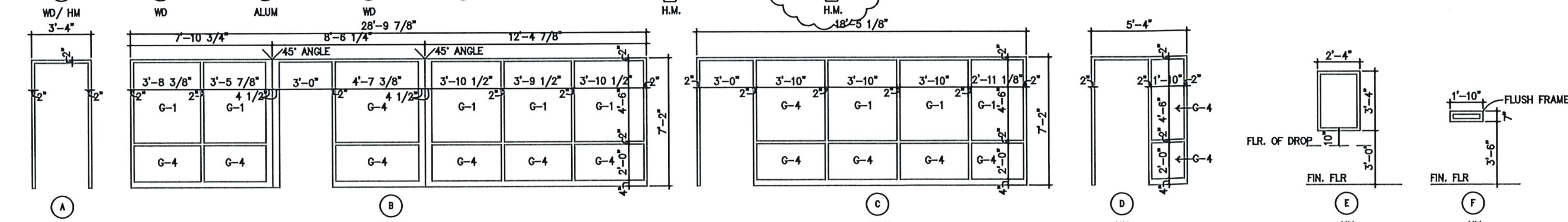
NO	NAME	FLOOR	BASE	WALL A	WALL B	WALL C	WALL D	CEILING MAT'L	CEILING HT	REMARKS
1001	LOBBY	F1	B1	W1	W1	W1	W1	C1	8'-0"	
1002	WOMEN'S TOILET	F3	B2	W3	W3	W3	W3	C1	8'-0"	
1003	MEN'S TOILET	F3	B2	W3	W3	W3	W3	C1	8'-0"	
1004	CORRIDOR	F1	B1	W1	W1	W1	W1	C1	8'-0"	
1005	LUNCH ROOM	F1	B1	W1	W1	W1	W1	C1	8'-0"	
1006	CUSTODIAL CLOSET	F1	B1	W1	W1	W1	W1	C2	8'-0"	
1007	REAR ELEVATOR LOBBY	F1	B1	W1	W1	W1	W1	C1	8'-0"	
1008	MECHANICAL ROOM	F1	B1	W1	W1	W1	W1	C2	8'-0"	
1009	SERVER ROOM	F1	B1	W1	W1	W1	W1	C3	(E)	
1011	WAITING ROOM	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1012	WORK ROOM	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1013	REGISTRAR	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1014	HI DENSITY FILING	F2	B1	W1	W1	W1	–	C1	9'-0"	
1015	DIRECTOR	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1016	CONFERENCE ROOM	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1017	STORAGE	F1	B1	W1	W1	W1	W1	C2	8'-0"	
1018	HALL	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1019	DEP. DIR	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1021	WAITING	F2	B1	–	W2	W1	–	C1	9'-0"	
1022	RESEARCH	F2	B1	W1	W1	–	W1	C1	9'-0"	
1023	OFFICE	F2	B1	–	–	W1	W1	C1	8'-0"	
1024	OFFICE	F2	B1	–	–	–	W1	C1	8'-0"	
1025	OFFICE	F2	B1	W1	–	–	W1	C1	8'-0"	
1026	CHIEF DEPUTY OFFICE	F2	B1	W1	–	–	W1	C1	8'-0"	
1027	TREASURY OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1028	MAIL/ STORAGE	F1	B1	W1	W1	W1	W1	C2	8'-0"	
1029	HALL	F2	B1	W1	W1	W1	W1	C1	8'-0"	
1031	WAITING	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1032	WORK ROOM	F2	B1	W1	W1	W1	–	C1	7'-6"	
1033	CONFERENCE ROOM	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1034	CASEWORK (FUTURE)	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1035	FILE ROOM	F1	B1	W1	W1	W1	W1	C2	7'-6"	
1036	SUPERVISOR	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1037	DIRECTOR	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1038	CASEWORK 1	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1039	CASEWORK 2	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1041	COMMUNICATIONS	F1	B1	W1	W1	W1	W1	C1	7'-6"	
1042	OFFICE	F2	B1	W1	W1	W1	W1	C1	7'-6"	
1043	DROP BOX	F2	B3	W4	W4	W4	W4	W1	4'-0"	
1051	COUNTY CONF. ROOM	F1	B1	W1	W1	W1	W1	C2	8'-0"	



GLAZING LEGEND

G-1 – 1/4" FLOAT GLASS, CLEAR

G-4 – 1/4" SAFETY GLASS, CLEAR



FINISH LEGEND

FLOORS
- F1- VINYL COMPOSITION TILE
- F2- CARPET
- F3- UNGLAZED CERAMIC MOSAIC TILE

BASE
- B1- VINYL BASE (4")
- B2- CERAMIC TILE BASE
- B3- CARPET

WALLS
- W1- PTD. GYP. BD.
- W2- ALUMINUM STOREFRONT
- W3- GLAZED CERAMIC TILE
- W4- CARPET

CEILING
- C1- 2'x2' ACOUSTICAL TILE & GRID
- C2- PTD. GYP. BD.

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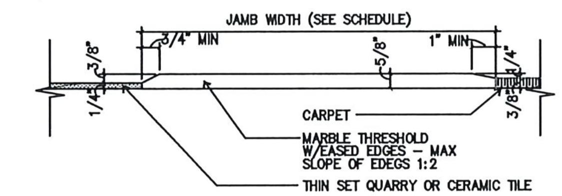
BFM# 00075 WASHINGTON COUNTY OFFICE BUILDING

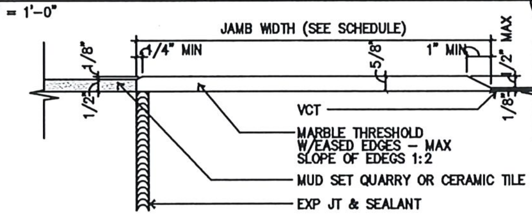
DOOR & ROOM SCHEDULE

A2.1



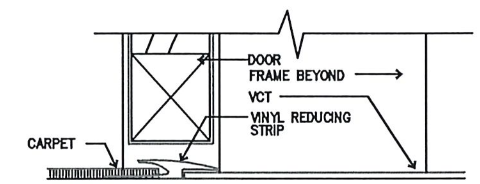
THRESHOLD DETAIL @ THINSET TILE & VCT 6 A2.2

3" = 1'-0"



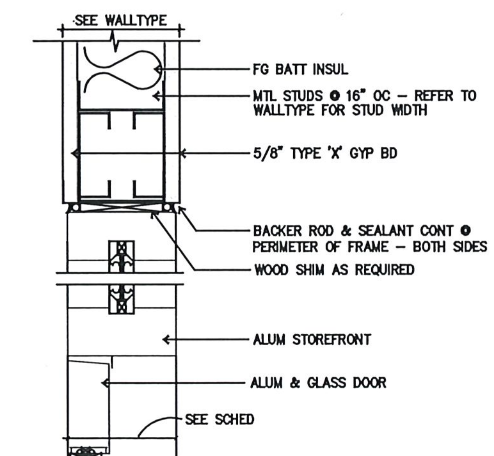
THRESHOLD DETAIL @ MUDSET TILE & VCT 5 A2.2

3" = 1'-0"



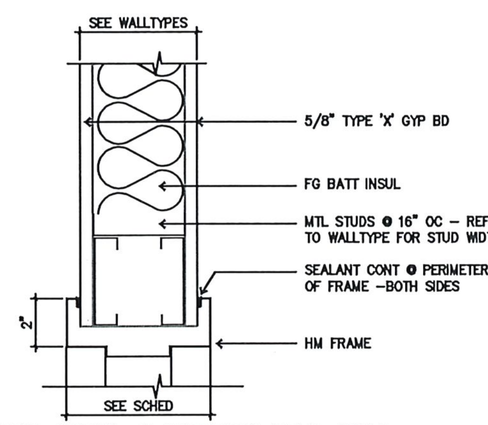
THRESHOLD DETAIL @ VRS 7 A2.2

6" = 1'-0"



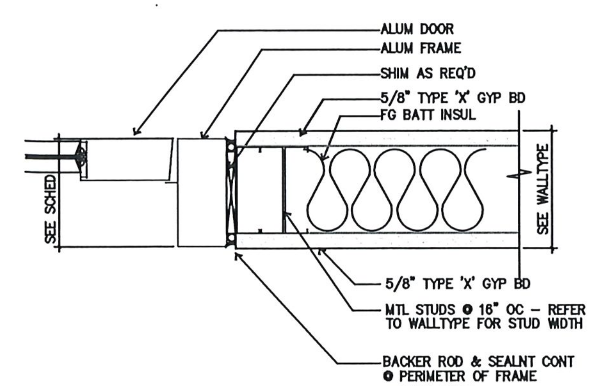
ALUM HEAD DETAIL @ INTERIOR STUD WALL 4 A2.5

3" = 1'-0"



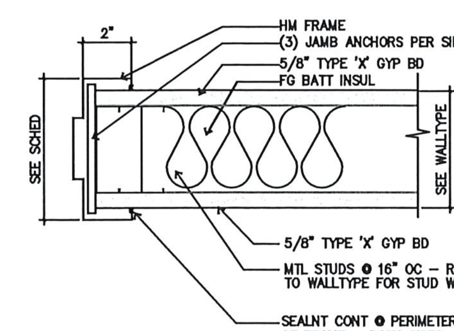
HM HEAD DETAIL @ INTERIOR STUD WALL 2 A2.2

3" = 1'-0"



ALUM JAMB DETAIL @ INTERIOR STUD WALL 3 A2.5

3" = 1'-0"



HM JAMB DETAIL @ INTERIOR STUD WALL 1 A2.2

3" = 1'-0"

1 5-3-02 AS BUILTS

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LICENSE No. 8278
EXPIRATION DATE

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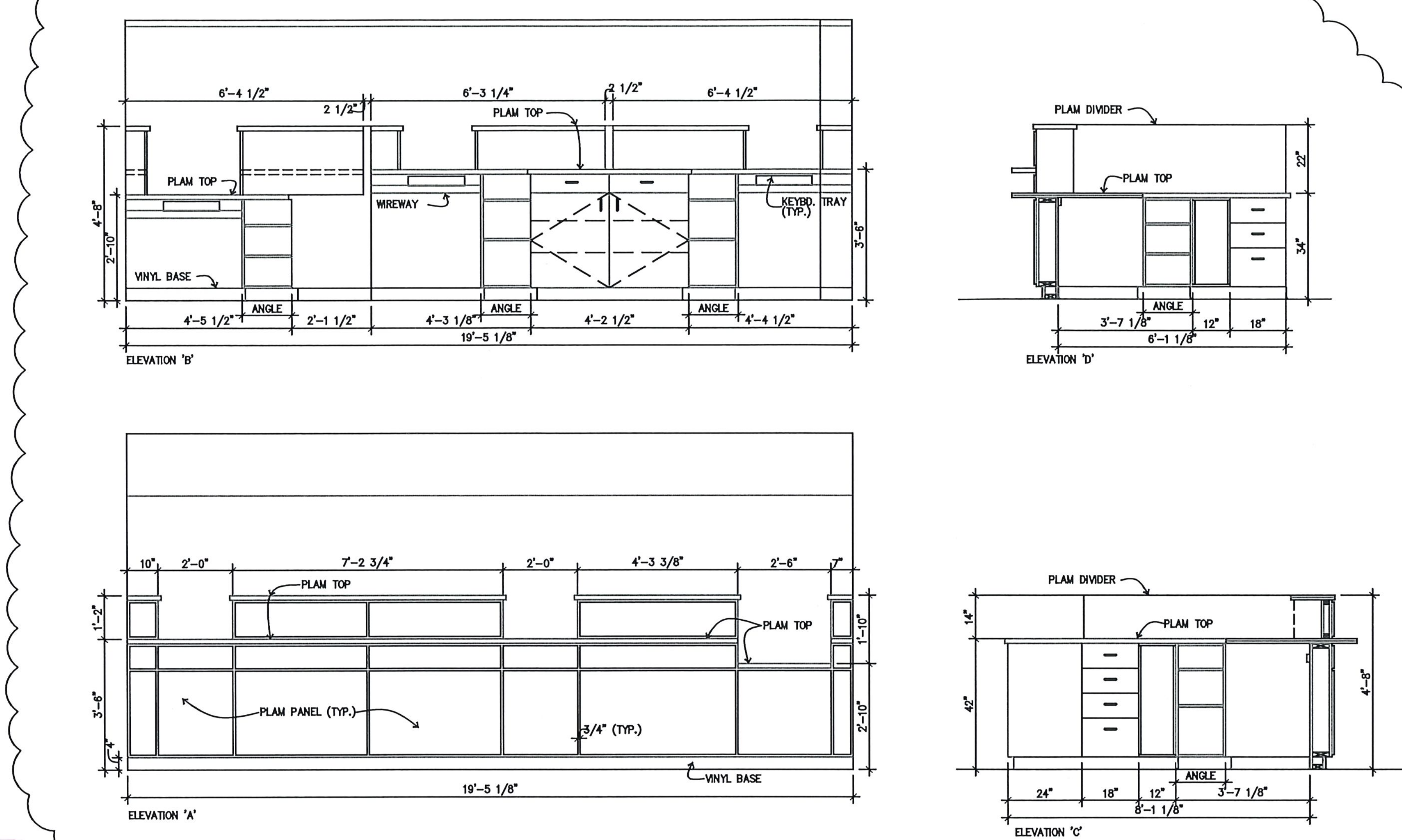
DOOR DETAILS

A2.2

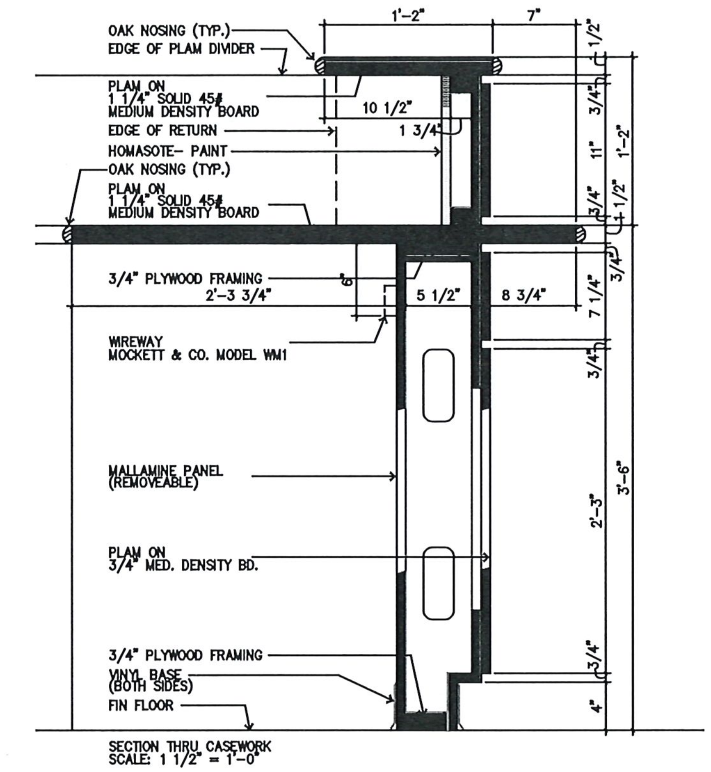
9 OF 26 SHEE

TOILET ACCESSORY LEGEND (SEE SPECIFICATIONS)	
A	GRAB BAR (36" x 54")
B	TOILET PAPER DISPENSER
C	TILT MIRROR (18" x 30")
D	LIQUID SOAP DISPENSER

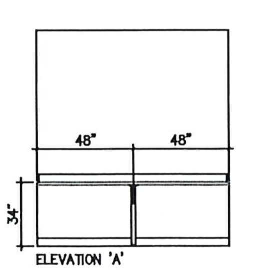
NOTE: CASEWORK ELEVATIONS ARE FOR ESTIMATING PURPOSES ONLY. EXACT CABINET CONFIGURATION MAY BE REVISED PRIOR TO INSTALLATION.



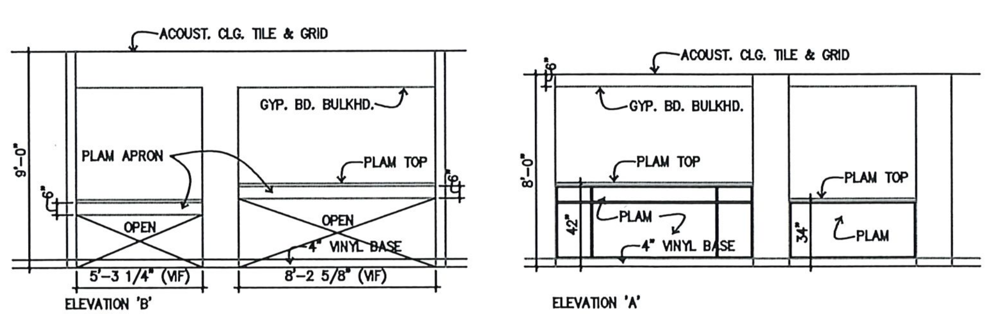
INTERIOR ELEVATIONS 5 A6.1
1/4" = 1'-0"



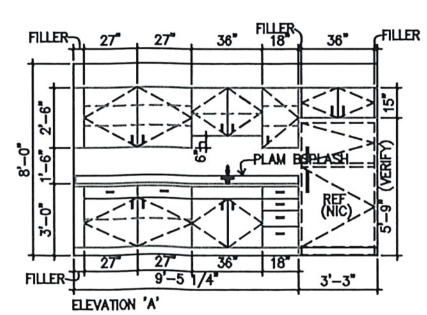
CASEWORK SECTION A6.1
1 1/2" = 1'-0"



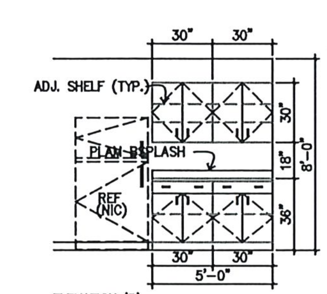
TERIOR ELEV 6 A6.1
1" = 1'-0"



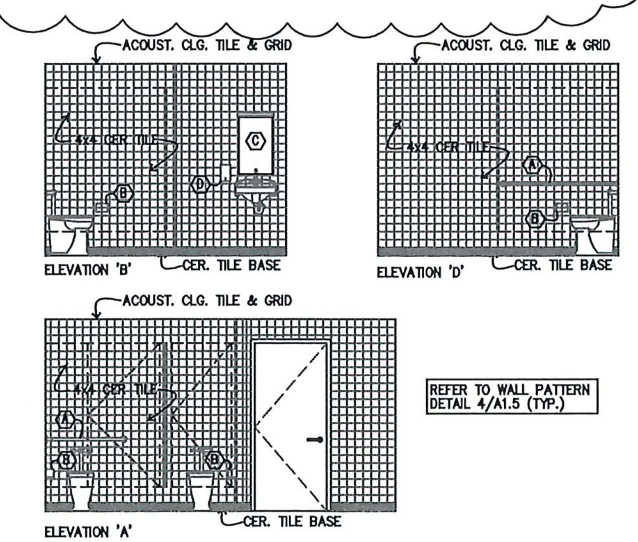
INTERIOR ELEVATIONS 4 A6.1
1/4" = 1'-0"



INTERIOR ELEV 3 A6.1
1/4" = 1'-0"



INTERIOR ELEV 2 A6.1
1/4" = 1'-0"



REFER TO WALL PATTERN DETAIL 4/A1.5 (TYP.)

INTERIOR ELEVATIONS 1 A6.1
1/4" = 1'-0"

1 5-3-02 UPDATE PER ADDENDA 1 & 2 AND AS BUILT

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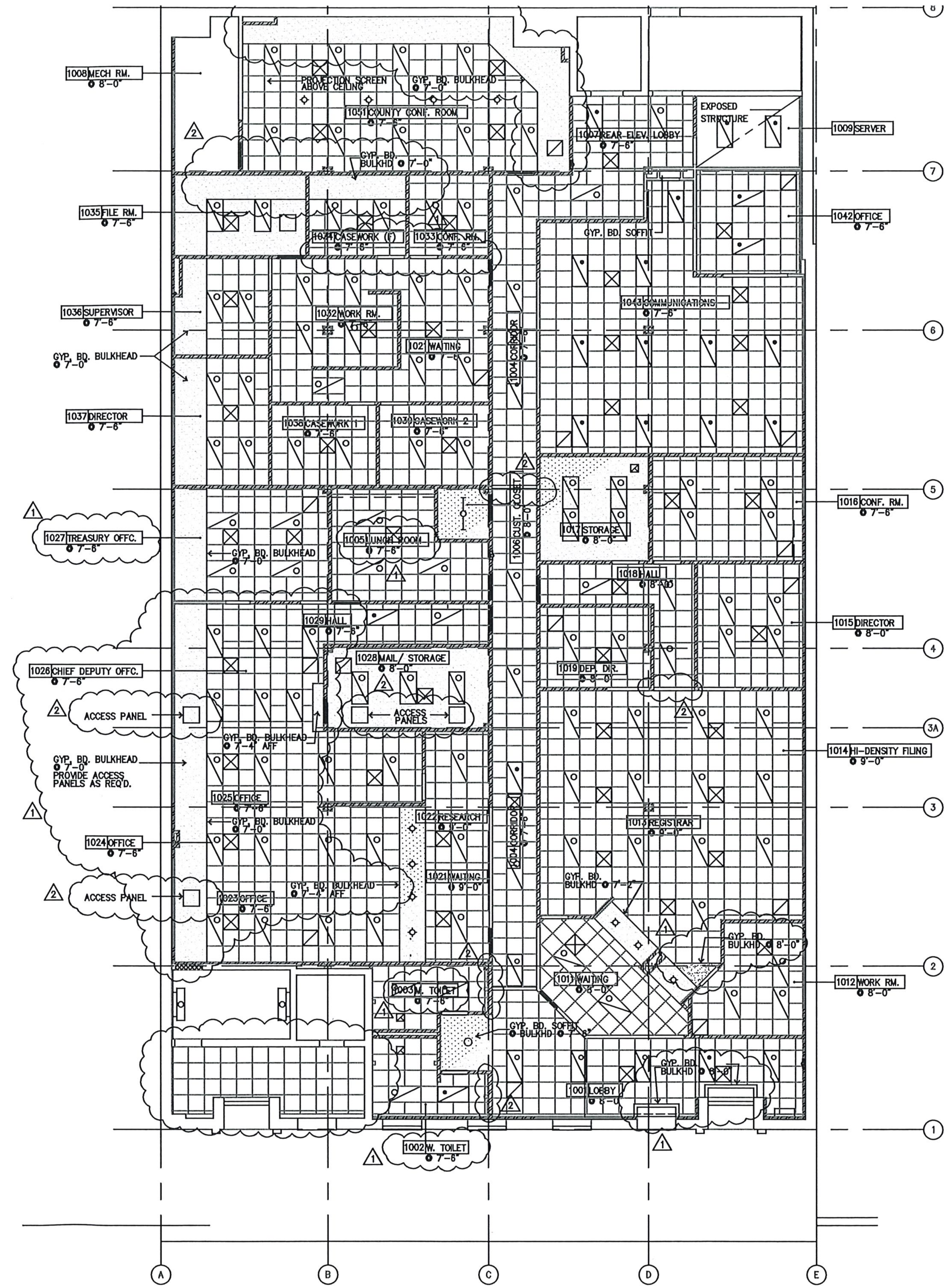
CASEWORK & INT. ELEVATION

A6.1

10 OF 26 SHEE



LIGHTING LEGEND

- 2'x 4' FLOURESCENT LIGHT FIXTURE
- 2'x 4' FLOURESCENT LIGHT FIXTURE (EMERGENCY)
- 1'x 4' FLOURESCENT LIGHT FIXTURE
- DOWN LIGHT
- WALL WASH LIGHT
- TRACK LIGHTING
- WALL-MOUNTED LIGHT
- EXIT SIGN – SINGLE SIDED
- EXIT SIGN – DOUBLE SIDED
- 2' x 4' ACOUSTICAL TILE GRID
- GYP. BD. CLG.

MECH. LEGEND

- SUPPLY
- RETURN
- EXHAUST
- SUPPLY GRILL

REFLECTED CEILING PLAN

1/8" = 1'-0"

1 / A8.1

1 8/3/01 FIELD DIRECTIVE No.2

2 5-3-02 AS BUILTS

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REFLECTED CEILING PLAN

A8.1

CODE REVIEW

BOILER & FURNACE ROOMS– 1 HOUR; OR AFSS w/ SMOKE PARTITION.

STORAGE ROOMS (50–100 SF)– 1 HOUR; OR AFSS w/ SMOKE PARTITION.
STORAGE ROOMS (100)– AFSS w/ SMOKE PARTITION.
PHYSICAL PLANT MAINTENANCE & WORKSHOP– 2 HOUR; OR 1HOUR & AFSS.

HEIGHT & AREA LIMITATIONS (TYPE 2C CONSTRUCTION)– 3 STORY; 40' ; 14,400 SF/ FLOOR: 504 HEIGHT MODIFICATIONS IF FULLY AUTO SPRINKLERED, THE LIMITATION SET BY TABLE 503 WILL ALLOW ONE ADDITONAL FLOOR.

FIRE RESISTANCE RATING OF STRUCTURAL ELEMENTS–
– REFER TO TABLE 602 BELOW

OCCUPANT LOAD (BUSINESS) 100GSF/ PERSON
11,480 GSF/ 100 = 115 OCCUPANTS

FIXTURE COUNT (115 OCCUPANTS)
BUSINESS:
WATER CLOSETS: 1 PER 25
LAVARATORIES: 1 PER 40
DRINKING FOUNTAIN: 1 PER 100
1 SERVICE SINK

TABLE 602

FIRE RESISTANCE RATINGS OF STRUCTURE ELEMENTS

STRUCTURE ELEMENT NOTE A		TYPE OF CONTSRUCTION SECTION 602.0 NON COMBUSTABLE TYPE 2 SECTION 603.0 UNPROTECTED 2C– FULLY SPRINKLERED
1. EXTERIOR WALLS	LOADBEARING	0
	NONLOADBEARING	NOT LESS THAN RATING REQ'D IN SEC 705.2
2. FIRE WALLS & PARTY WALLS (SECTION 707.0)		2 NOT LESS THAN RATING REQ'D IN TABLE 707.1
3. FIRE SEPERATION ASSEMBLIES (SECTION 709.0)	FIRE ENCLOSURE OF EXITS (SEC. 1014.11, 709.0 & NOTE B)	2
	SHAFTS (OTHER THAN EXITS) AND ELEVATOR HOISTWAYS (SECTIONS 709.0, 710.0 & NOTE B)	2
	MIXED USE AND FIRE AREA SEPERATIONS (SECTION 313.0)	NOT LESS THAN RATING REQUIRED IN TABLE 313.1.2
	OTHER SEPERATION ASSEMBLIES (NOTE I)	1 NOTE D
4. FIRE PARTITIONS (SECTION 711.0)	EXIT ACCESS CORRIDORS (NOTE G)	NOT LESS THAN RATING REQUIRED IN SECTION 1011.4– NOTE D
	TENANT SPACES SEPERATIONS (NOTE F)	0 NOTE D
5. DWELLING UNIT & GUEST ROOM SEPERATIONS (SECTIONS 711.0, 713.0, NOTES F & J)		N/A NOTE D
6. SMOKE BARRIERS (SECTIONS 712.0 AND NOTE G)		1
7. OTHER NON LOAD BEARING PARTITIONS		0 NOTE D
8. INT. LOADBEARING WALLS, PARTITIONS, COLUMNS, GIRDERS, TRUSSES (OTHER THAN ROOF TRUSSES AND FRAMING. (SECTION 716.0)	SUPPORTING MORE THAN ONE FLOOR	0
	SUPPORTING ONE FLOOR AND/ OR ROOF ONLY	0
9. STRUCTURAL MEMBERS SUPPORTING WALL (SECTION 716.0 AND NOTE G)		0 NOT LESS THAN RATING OF WALL SUPPORTED
10. FLOOR CONSTRUCTION INCLUDING BEAMS (SECTION 713.0 AND NOTE H)		0
11. ROOF CONSTRUCTION INCLUDING BEAMS, TRUSSES & FRAMING, ARCHES & ROOF DK. (SECTION 715.0, NOTES E & M)	15' OR LESS IN HEIGHT TO LOWEST MEMBER	0 NOTE D
	MORE THAN 15' BUT LESS THAN 20' IN HT. TO LOWEST MEMBER	0 NOTE D
	20' OR MORE IN HT. TO LOWEST MEMBER	0 NOTE D

NOTE A. FOR FIRE RESISTANCE RATING REQUIREMENTS FOR STRUCTURAL MEMBERS & ASSEMBLIES WHICH SUPPORT OTHER FIRERESISTANCE RATED MEMBERS OR ASSEMBLIES, SEE SECTION 716.1.

NOTE B. FOR REDUCTIONS IN THE REQUIRED FIRERESISTANCE RATING OF EXIT & SHAFT ENCLOSURES, SEE SECTIONS 1014.11 & 710.3

NOTE C. FOR SUBSTITUTION OF OTHER STRUCTURAL MATERIALS FOR TIMBER IN TYPE 4 CONSTRUCTION, SEE SECTION 2304.2.

NOTE D. FOR FIRE RETARDANT– TREATED WOOD PERMITTED IN ROOF CONSTRUCTION AND NONLOADBEARING WALLS WHERE THE REQUIRED FIRERESISTANCE RATING IS 1 HOUR OR LESS. SEE SECTIONS 603.2 & 2310.0.

NOTE E. FOR PERMITTED USES OF HEAVY TIMBER IN ROOF CONSTRUCTION IN BUILDINGS OF TYPES 1 & 2 CONSTRUCTION, SEE SECTION 715.4.

NOTE F. FOR REDUCTIONS IN REQUIRED FIRERESITANCE RATINGS OF TENANT SEPARATIONS AND DWELLING UNIT SEPARATIONS, SEE SECTIONS1011.4 & 1011.4.4.

NOTE G. FOR EXCEPTIONS TO THE REQUIRED FIRERESISTANCE RATING OF CONSTRUCTION SUPPORTING EXIT ACCESS CORRIDOR WALLS, TENANT SEPERATION WALLS IN COVERED MALL BUILDINGS, AND SMOKE BARRIERS, SEE SECTIONS 711.4 & 712.2.

NOTE H. FOR BUILDINGS HAVING HABITABLE OR OCCUPIABLE STORIES OR BASEMENTS BELOW GRADE, SEE SECTION 1006.3.1.

NOTE I. NOT LESS THAN THE RATING REQUIRED BY THIS CODE.

NOTE J. FOR USE GROUP R–3, SEE SECTION 310.5.

NOTE K. FIRERESISTANCE RATINGS ARE EXPRESSED IN HOURS.

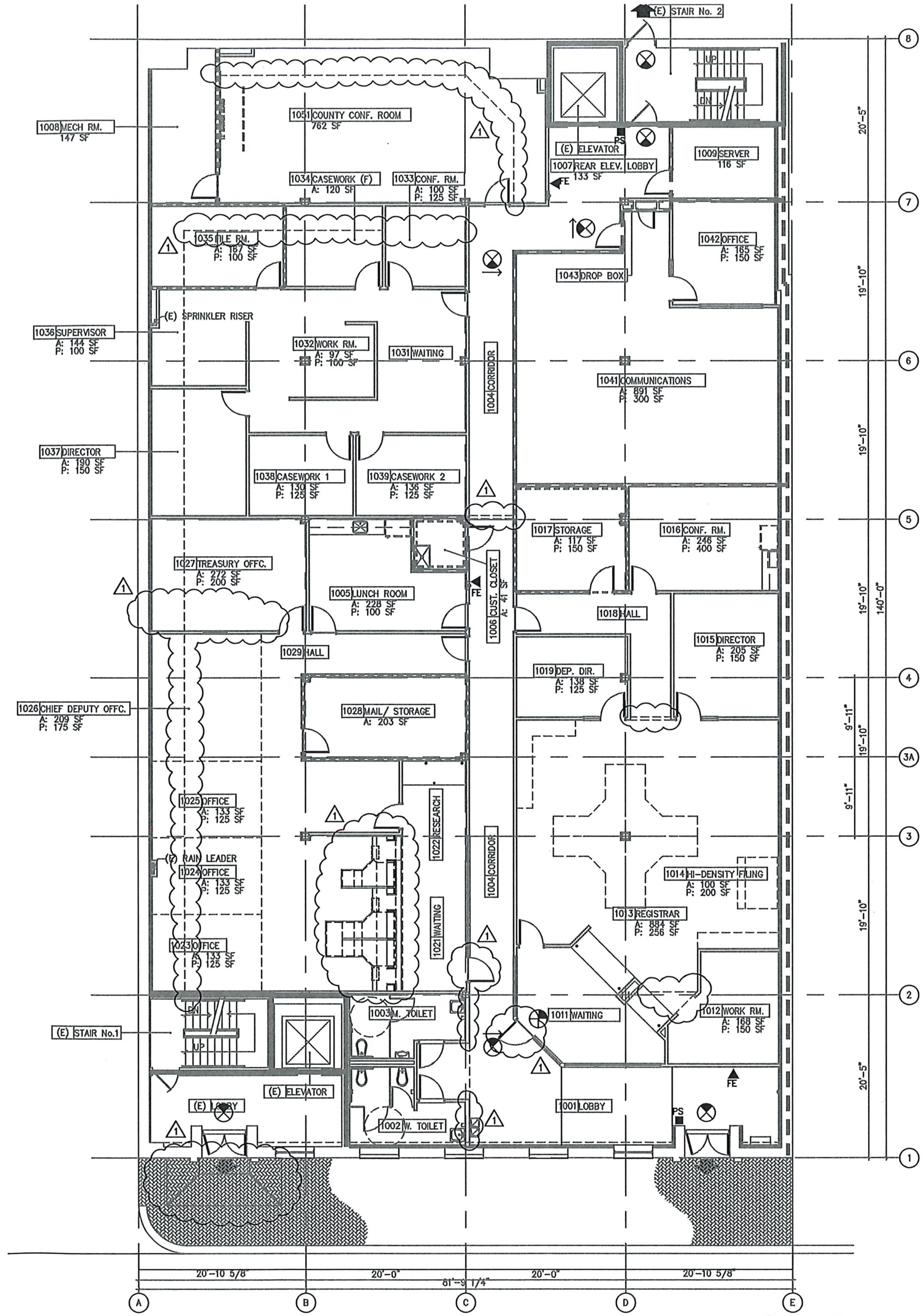
NOTE L. IN BUILDINGS WHICH ARE REQUIRED TO COMPLY WITH THE PROVISIONS OF SECTION 403.3, THE REQUIRED FIRERESISTANCE RATING FOR FLOOR CONSTRUCTION, INCLUDING BEAMS, SHALL BE 2 HOURS, SEE SECTION 403.3.3.1.

NOTE M. 1 FOOT = 304.8 mm

LEGEND

2 HOUR FIRE-RATED PARTITION W/ 1 1/2 HOUR FIRE-RATED DOORS
1 HOUR FIRE-RATED PARTITION W/ 3/4 HOUR FIRE-RATED DOORS
1 HOUR SMOKE PARTITION W/ 3/4 HOUR FIRE-RATED DOORS
NON-RATED SMOKE PARTITION
EXIT TO GRADE
FE FIRE EXTINGUISHER LOCATION
PS PULL STATION
EXIT SIGN

NOTE: CONTRACTOR SHALL VERIFY FIRE-RATING OF EXISTING WALLS AS SHOWN & REPAIR WALLS AS REQ'D TO ACHIEVE SPECIFIED FIRE-RATING



FIRE PROTECTION PLAN
1/8" = 1'-0"
1 FP1.1

5-3-02 AS BUILTS

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BFM# 00075 WASHINGTON COUNTY OFFICE BUILDING

FIRE PROTECTI
& CODE REVIE

FP1.1

WASHINGTON COUNTY ADMINISTRATION COMPLEX

100 WEST WASHINGTON STREET
HAGERSTOWN, MD 21740

CONFORMED SET

BFM PROJECT NO. 14028
AUGUST 15, 2014

ARCHITECTS

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TELECOMMUNICATIONS CONSULTANT
WRIGHT ENGINEERING
853 RIPPLE STREAM COURT
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WASHINGTON COUNTY MARYLAND 1776

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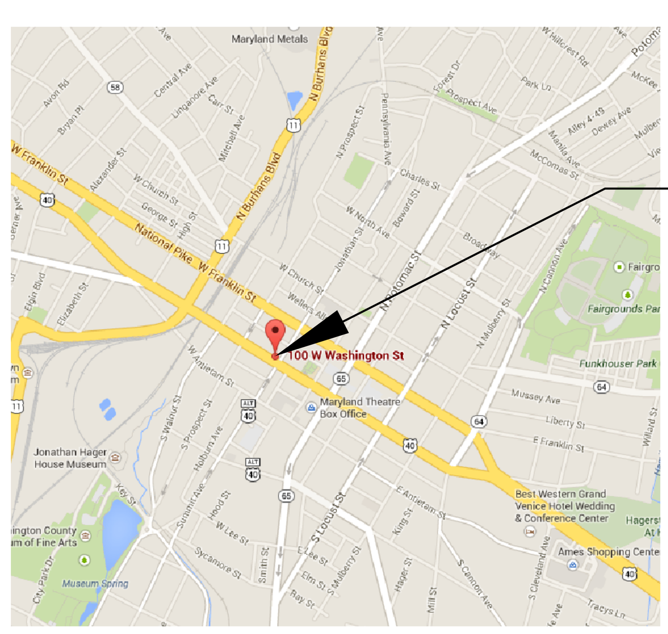
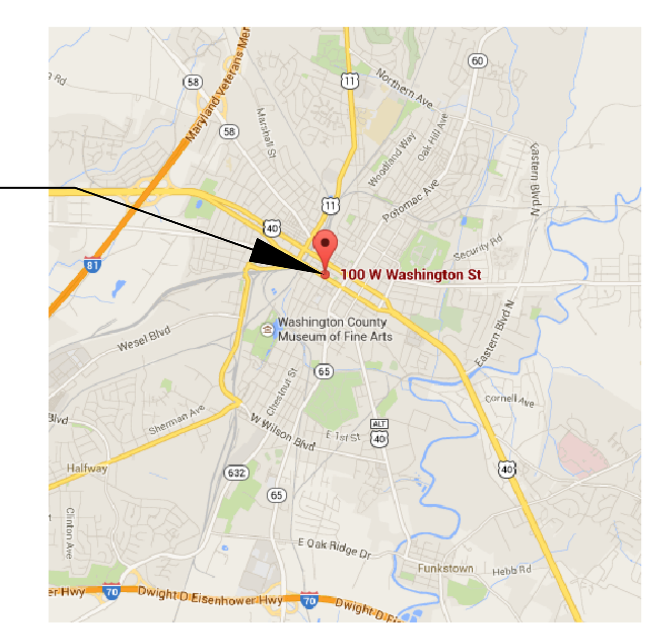
PROFESSIONAL CERTIFICATION

These contract documents for the Washington County Administration Complex – First Floor Renovation were prepared under my supervision and to the best of my knowledge, information and belief, they comply with the relevant building codes of the State of Maryland.

/s/ (date) __-__-14
Maryland Registration No. 8278 Expiration Date: 9-2-14



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

REVISIONS
5/30/18 AS-BUILTS

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AUGUST 15, 2014

WASHINGTON COUNTY ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS
HAGERSTOWN, MARYLAND

BFM # 14028

CONFORMED SET

AS-BUILTS

COVER SHEET

CS-1

SHEET 1 OF 4
DATE : 08.15.14

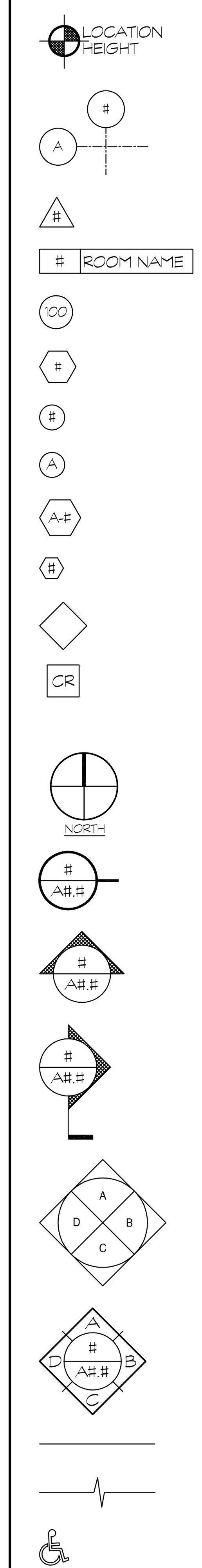
ABBREVIATIONS

A, AMP	AMPERE
AB	ANCHOR BOLT, AUGER BOLT
ABS	AIR BREAK SWITCH
AC	ASBESTOS CEMENT ASPHALTIC CONCRETE
ACB	AIR CIRCUIT BREAKER
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED
ACST	ACOUSTIC
AD	AREA DRAIN
ADJ	ADJUSTABLE, ADJUST ADJACENT
AFF	ABOVE FINISH FLOOR
ALUM	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ARR	ARRESTOR
ASPH	ASPHALT
AWG	AMERICAN WIRE GAGE
BTM	BOTTOM
BC	BOTTOM OF CURB
BCCMP	BITUMINOUS COATED CORRUGATED METAL PIPE
BD	BOARD
BIT	BITUMINOUS
BL	BASE LINE
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BSMT	BASEMENT
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
C, CND	CONDUIT
CAP	CAPACITY
CB	CHALKBOARD
CC	CENTER TO CENTER
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CIP	CAST IRON PIPE
CIR	CIRCULATING
CJ	CONTROL JOINT
CKT	CIRCUIT
CL	CENTERLINE
CL	CLEAR, CLEARANCE
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CMPA	CORRUGATED METAL PIPE ARCH
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
COND	CONDUCTOR
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTION
CONV	CONVERTER
COP, CU	COPPER
CP	NON-REINFORCED CONCRETE PIPE
CRS	COLD-ROLLED STEEL
CSK	COUNTER SUNK
CT	CERAMIC TILE, CURRENT TRANSFORMER
CTR	CENTER
CW	COLD WATER
CWB	CAPILLARY WATER BARRIER
D	DEPTH, DEEP, DEGREE OF CURVATURE, DRAIN
DB	DRY BULB, DECIBEL, DIRECT BURIAL
DET	DETAIL
DH	DRILL HOLE
DIA	DIAMETER
DIM	DIMENSION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
D PNL	DISTRIBUTION PANEL
DS	DOWNSPOUT
DWD	DRINKING WATER DISPENSER
DWG	DRAWING
E	EAST
EA	EACH
EC	EMPTY CONDUIT
EF	EACH FACE
EL, ELEV	ELEVATION
ELEC	ELECTRIC
EMER	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
(E), EXIST	EXISTING
EXP	EXPANSION, EXPOSED
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FAHRENHEIT, FIRE
FABX	FIRE ALARM BOX
FD	FLOOR DRAIN
FDN	FOUNDATION
FDR	FEEDER
FE	FIRE EXTINGUISHER, FINISHED END
FF	FINISHED FLOOR
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH

FJ	FELT JOINT
FL	FLOOR, FLASHING
FLUOR	FLUORESCENT
4 WAY	FOUR WAY
FPM	FEET PER MINUTE
FR	FRAME
FS	FULL SIZE
FT	FOOT, FEET
FTG	FOOTING
GA	GAGE
GALV	GALVANIZED
GL	GLASS
GOV'T	GOVERNMENT
GPM	GALLONS PER MINUTE
GR	GRADE
GRD	GROUND
GSU	GLAZED STRUCTURAL UNIT
GW	GROUND WATER
GYP	GYPSUM
HT, HGT	HEIGHT
HD	HARD DRAWN
HDW	HARDWARE
HGSW	HORN GAP SWITCH
HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HR	HOUR
HS	HIGH STRENGTH
HVY	HEAVY
HW	HOT WATER, HEADWALL
HWL	HIGH WATER LEVEL
HZ	HERTZ
I	INLET, MOMENT OF INERTIA
ID	INSIDE DIAMETER, INSIDE DIMENSION
IN	INCH
INSUL	INSULATION, INSULATED
INT	INTERIOR
INV	INVERT
JB	JUNCTION BOX
JC	JANITOR CLOSET
JCT	JUNCTION
JST	JOIST
JT	JOINT
K	KIPS (1000 LBS.)
KCP	KEENE'S CEMENT PLASTER
KO	KNOCK OUT
KV	KILOVOLT
KVA	KILOVOLT - AMPERE
KW	KILOWATT
L	LOUVER, LENGTH, LENGTH OF CURVE
LA	LIGHTING ARRESTOR
LAV	LAVATORY
LBS	POUNDS
LC	LEAD COVERED
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
MACH	MACHINE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MARKERBOARD
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MTL	METAL
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MP	MEDIUM PRESSURE
MPH	MILES PER HOUR
MTD	MOUNTED
MTG	MEETING,MOUNTING
MWP	MEMBRANE WATERPROOFING
N	NORTH
NC	NON-CORROSIVE
NDC	NOSE DOWN CURVE
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OC	ON CENTER
OCB	OIL CIRCUIT BREAKER
OD	OUTSIDE DIAMETER
OFD	OVERFLOW DRAIN
OH	OVERHANG
OPNG	OPENING
OPP	OPPOSITE
OVHD, OH	OVERHEAD
P	PIPE, PERSON
PB	PULL BOX
PC	POINT OF CURVE
PF	PROFILE
PI	POINT OF INTERSECTION
PIV	POST INDICATOR VALVE
PJF	PREFORMED JOINT FILLER
PL	PROPERTY LINE
PL	PLATE
PLAS	PLASTER
PLNJ	PAPER AND LEAD NEOPRENE JACKET
PLYWD	PLYWOOD
PNL	PANEL
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRIM	PRIMARY
PS	PULL SWITCH, PAPER STORAGE

PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT, POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE, POLY VINYL CHLORIDE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
QT	QUARRY TILE
R	RADIUS, RISER, RUBBER SHEATH
RAD	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN, ROAD
RECP	RECEPTACLE
RED	REDUCING
REG	REGULATOR, REGISTER
REINF	REINFORCEMENT
REL	RELOCATED
REM	REMOVED
REQ'D	REQUIRED
REV	REVISION, REVISED
RF	ROOF
RI	RUBBER INSULATED
RL	RAIN LEADER
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
R/W	RIGHT OF WAY
RX	REMOVE EXISTING
S	SOUTH, SECTION MODULUS
SAN	SANITARY SEWER
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SCH	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SVC, SERV	SERVICE
SH	SHEET
1 PH	SINGLE PHASE
SKCP	SUSPENDED KEENE'S CEMENT PLASTER
SL	SLOPE
SMH	SANITARY MANHOLE
SMK	SMOKE
SP	SINGLE POLE
SPC	SUSPENDED PLASTER CEILING
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SS, SST	STAINLESS STEEL
ST	STREAM, SINGLE THROW, STREET
STA	STATION
STD	STANDARD
STL	STEEL
STR	STRUCTURAL
SUP	SUPPORT
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
T	TILE, TOP, TANGENT
T & B	TOP & BOTTOM
TB	TACKBOARD
TC	TOP OF CURB
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
TF	TOP OF FOOTING
3/C	THREE CONDUCTOR
3/P	THREE POLE
3 WAY	THREE WAY
TH	TOTAL HEAD (PUMPS)
THRS	THRESHOLD
THRU	THROUGH
TP	TEST PIT
TS, TOS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB
TT	TOTE TRAY STORAGE
TW, TOW	TOP OF WALL, TEACHER'S WARDROBE
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
V	VENT, VOLT, VALVE, VELOCITY
VAC	VACUUM
V ASB	VINYL ASBESTOS
VB	VAPOR BARRIER
VC	VARNISH CAMRIC, VITRIFIED CLAY
VCP	VITRIFIED CLAY PIPE
VEH	VEHICLE
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VWR	VERTICAL WALL REINFORCING
W	WIDTH, WASTE, WATER, WATT, WEST
W/	WITH
W/O	WITHOUT
WB	WET BULB
WC	WATER CLOSET
WD	WIDTH, WINDOW DIMENSION
WL	WATER LEVEL
WP	WATERPROOF, WEATHERPROOF
WS	WASTE STACK, WATER SURFACE, WATERSTOP
WT	WEIGHT
WWM	WELDED WIRE MESH
XFRMR	TRANSFORMER
X-STR	EXTRA STRENGTH
YR	YEAR
1:2 SLOPE	1 VERTICAL TO 2 HORIZONTAL
1 ON 2 SLOPE	1 VERTICAL ON 2 HORIZONTAL

SYMBOLS



- ELEVATION
- COLUMN REFERENCE GRIDS
- REVISION NUMBER
- ROOM NUMBER
- DOOR NUMBER
- WINDOW NUMBER
- BORROWED LITE NUMBER
- DOOR TYPE
- FRAME TYPE
- CASEWORK NUMBER
- TOILET ACCESSORY NUMBER
- WALL TYPE
- CARD READER
- NORTH ARROW
- DETAIL REFERENCE
  #: DETAIL NUMBER
  A#.#: SHEET NUMBER
- ELEVATION REFERENCE
  #: DETAIL NUMBER
  A#.#: SHEET NUMBER
- SECTION REFERENCE
  #: DETAIL NUMBER
  A#.#: SHEET NUMBER
- WALL FINISH KEY
- INTERIOR ELEVATION REFERENCE
  #: DETAIL NUMBER
  A#.#: SHEET NUMBER
- HIDDEN LINES
- BREAK LINE
- HANDICAP ACCESSIBILITY

CONCRETE MASONRY UNIT (CMU)
BRICK VENEER
PRECAST CONCRETE
CONCRETE
GRANULAR FILL
RIGID INSULATION
BATT OR SOUND INSULATION
GYPSUM WALL BOARD
SPLIT FACED CMU
FINISHED WOOD
STEEL
PLYWOOD
MTL ROOF DECK
ROUGH LUMBER
CARPET
TILE

ARCHITECTURAL CATEGORIES

1 - FLOOR PLANS
2 - DOOR & WINDOW SCHEDULES & DETAILS
- FINISH SCHEDULES
3 - EXTERIOR ELEVATIONS
4 - (NOT USED)
5 - (NOT USED)
6 - INTERIOR & CASEWORK ELEVATIONS
7 - (NOT USED)
8 - REFLECTED CEILING PLANS
9 - (NOT USED)
10 - (NOT USED)

ARCH. DWG. N0. KEY

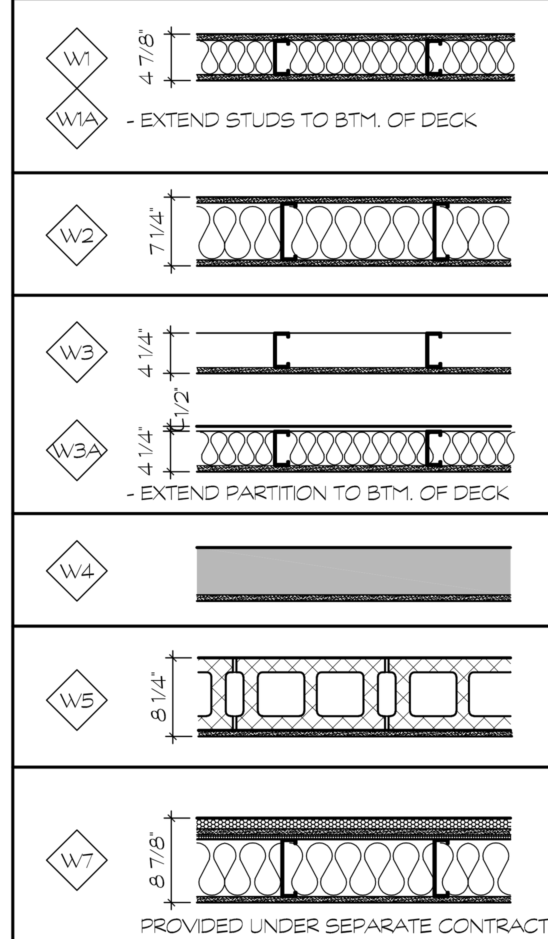
A	1.	2

ARCHITECTURAL
ARCHITECTURAL CATEGORY
DRAWING ORDER

WALLTYPES AND PARTITIONS

(SEE GENERAL NOTES BELOW FOR ALL WALL TYPES.)

ALL WALL TYPES ARE FROM SLAB TO UNDERSIDE OF DECK OR TRUSS UNLESS OTHERWISE NOTED.



W1
- 3-5/8" (20ga.) MTL. STUDS @ 16" O.C. (TO 6" ABV. FIN. CLG.)
- SOUND ATTENUATION BATTS
- 5/8" GYP BD. EACH SIDE

W1A - EXTEND STUDS TO BTM. OF DECK

W2
- 6" (18ga.) MTL. STUDS @ 16" O.C.
- SOUND ATTENUATION BATTS
- 5/8" GYP BD. EACH SIDE

W3
- 3-5/8" (20ga.) MTL. STUDS @ 16" O.C.
- 5/8" GYP BD. ONE SIDE

W3A
- 3-5/8" (20ga.) MTL. STUDS @ 16" O.C.
- SOUND ATTENUATION BATTS
- 5/8" GYP BD. ONE SIDE
- EXTEND PARTITION TO BTM. OF DECK

W4
- 5/8" GYP BD. ON (E) SUBSTRATE

W5
- 8" CMU W/GALV MASONRY TRUSS REINF @ 16" o.c.
- 5/8" GYP BD. - PAINT - SEE RM. FIN. SCHED.

W7
- 1 1/8" ALUM. COMPOSITE PANEL
- 5/8" GYP BD. - PAINT - SEE RM. FIN. SCHED.
- 1/2" RIGID INSULATION
- BATTEN INSULATION
- 6" (18ga.) MTL. STUDS @ 16" O.C.
- 5/8" GYP BD. - PAINT - SEE RM. FIN. SCHED.

PROVIDED UNDER SEPARATE CONTRACT

WALL TYPE NOTES:
1. ALL GYPSUM BOARD LAYERS SHALL BE RUN VERTICALLY
2. JOINTS IN GYPSUM BOARD SHALL OCCUR AT STUDS ONLY.
3. PROVIDE RESILIENT SEALANT ON BOTH SIDES OF GYP BD PARTITIONS AT ENTIRE PERIMITER.

DRAWING INDEX

REVISIONS

1	09.02.14	ADDENDUM #3
2	09.04.14	ADDENDUM #4
3	7/11/16	RFP #065
4	5/30/18	AS-BUILT

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS

CONFORMED SET

WALL TYPES & ABBREVIATIONS

CS-2

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLN1

CODE REVIEW

USE GROUP: B- BUSINESS, TYPE IIIB CONSTRUCTION

BUILDING FULLY SPRINKLERED WITH FIRE ALARM SYSTEM.
SPRINKLER SYSTEM TYPE: NFPA 13

2012 NFPA LIFE SAFETY

CHAPTER 39 EXISTING BUSINESS OCCUPANCIES

39.1.1 APPLICATION
39.1.1.1 THE REQUIREMENTS OF THIS CHAPTER SHALL APPLY TO EXISTING BUILDINGS OR PORTIONS THEREOF CURRENTLY USED AS BUSINESS OCCUPANCIES.
39.1.1.4 THE PROVISIONS OF THIS CHAPTER SHALL APPLY TO LIFE SAFETY REQUIREMENTS FOR EXISTING BUSINESS BUILDINGS.
39.1.2 CLASSIFICATION OF OCCUPANCY. BUSINESS OCCUPANCIES SHALL INCLUDE ALL BUILDINGS AND STRUCTURES OR PARTS THEREOF WITH OCCUPANCY AS DEFINED IN 6.1.11.
39.1.5 CLASSIFICATION OF HAZARD OF CONTENTS. THE CONTENTS OF BUSINESS OCCUPANCIES SHALL BE CLASSIFIED AS ORDINARY HAZARD IN ACCORDANCE WITH SECTION 6.2.
39.1.6 MINIMUM CONSTRUCTION REQUIREMENTS. (NO REQUIREMENTS)
39.1.7 OCCUPANT LOAD. THE OCCUPANT LOAD, IN NUMBER OF PERSONS FOR WHO, MEANS OF EGRESS AND OTHER PROVISIONS ARE REQUIRED, SHALL BE DETERMINED ON THE BASIS OF THE OCCUPANT LOAD FACTORS OF TABLE 7.3.1.2 THAT ARE CHARACTERISTIC OF THE USE OF THE SPACE, OR SHALL BE DETERMINED AS THE MAXIMUM PROBABLY POPULATION OF THE SPACE UNDER CONSIDERATION, WHICHEVER IS GREATER.
39.2 MEANS OF EGRESS REQUIREMENTS
39.2.1 GENERAL
39.2.1.1 ALL MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH CHAPTER 7 AND THIS CHAPTER.
39.2.3 CAPACITY OF MEANS OF EGRESS
39.2.3.2 THE CLEAR WIDTH OF ANY CORRIDOR OR PASSAGEWAY SERVING AN OCCUPANT LOAD OF 50 OR MORE SHALL BE NOT LESS THAN 44 IN.
39.2.4 NUMBER OF EXITS
39.2.4 EXITS SHALL COMPLY WITH THE FOLLOWING, EXCEPT AS OTHERWISE PERMITTED BY 39.2.4.2 THROUGH 39.2.4.6:
1) THE NUMBER OF MEANS OF EGRESS SHALL BE IN ACCORDANCE WITH SECTION 7.4.
2) NO LESS THAN TWO SEPARATE EXITS SHALL BE PROVIDED ON EVERY STORY.
3) NOT LESS THAN TWO SEPARATE EXITS SHALL BE ACCESSIBLE FROM EVERY PART OF EVERY STORY.
39.2.5.2 DEAD END CORRIDORS SHALL NOT EXCEED 50 FEET.
39.2.5.3.1 COMMON PATH OF TRAVEL SHALL NOT EXCEED 100 FT. ON A STORY PROTECTED THROUGHOUT BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 9.7.1.1.
39.2.6.2 THE TRAVEL DISTANCE SHALL NOT EXCEED 200 FT. FROM ANY POINT IN A BUILDING.
39.2.8 ILLUMINATION OF MEANS OF EGRESS. MEANS OF EGRESS SHALL BE ILLUMINATED IN ACCORDANCE WITH SECTION 7.8.
39.2.9 EMERGENCY LIGHTING
39.2.9.1 EMERGENCY LIGHTING SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 7.9 IN ANY BUILDING WHERE ANY ONE OF THE FOLLOWING CONDITIONS EXISTS:
1) THE BUILDING IS TWO OR MORE STORIES IN HEIGHT ABOVE THE LEVEL OF EXIT DISCHARGE.
2) THE OCCUPANCY IS SUBJECT TO 50 OR MORE OCCUPANTS ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE.
39.2.10 MARKING OF MEANS OF EGRESS. MEANS OF EGRESS SHALL HAVE SIGNS IN ACCORDANCE WITH SECTION 7.10.
39.3.2 PROTECTION FROM HAZARDS
39.3.2.1 GENERAL. HAZARDOUS AREAS INCLUDING, BUT NOT LIMITED TO, AREAS USED FOR GENERAL STORAGE, BOILER OR FURNACE ROOMS, AND MAINTENANCE SHOPS THAT INCLUDE WOODWORKING AND PAINTING AREAS SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 8.7.
39.3.3 INTERIOR FINISH
39.3.3.2 INTERIOR WALL AND CEILING FINISH
39.3.3.2.1 INTERIOR WALL AND CEILING FINISH MATERIAL COMPLYING WITH SECTION 10.2 SHALL BE CLASS A OR CLASS B IN EXITS AND IN EXIT ACCESS CORRIDORS.
39.3.3.2.2 INTERIOR WALL AND CEILING FINISHES SHALL BE CLASS A, CLASS B, OR CLASS C IN AREAS OTHER THAN THOSE SPECIFIED IN 39.3.3.2.1.
39.3.5 EXTINGUISHMENT REQUIREMENTS. PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED IN EVERY BUSINESS OCCUPANCY IN ACCORDANCE WITH 9.7.4.1.
39.3.6 CORRIDORS. (NO SPECIAL REQUIREMENTS)
39.3.7 SUBDIVISION OF BUILDING SPACES. (NO SPECIAL REQUIREMENTS)

CHAPTER 7 - MEANS OF EGRESS
7-3.3 EGRESS CAPACITY
STAIRWAYS 0.3 INCHES PER PERSON
LEVEL/RAMP 0.2 INCHES PER PERSON
7-3.3.1 EGRESS CAPACITY OF DOORS - EXAMPLE 1 HAND-BOOK: 36" DOOR = 34" CLEAR/0.2 = 170 PERSONS
7-3.3.2 CORRIDOR CAPACITY
OCCUPANT LOAD UTILIZING THE CORRIDOR DIVIDED BY THE REQUIRED NUMBER OF EXITS
7-4.1.2 MINIMUM NUMBER OF EXITS
OCCUPANT LOAD GREATER THAN 500 BUT LESS THAN 1,000 = 3
OCCUPANT LOAD GREATER THAN 1,000 = 4
7-5.1.4 EXITS REMOTELY LOCATED
LOCATIONS EQUAL TO OR GREATER THAN 1/2 LENGTH OF MAX OVERALL DIAGONAL DIMENSION OF BUILDING OR AREA TO BE SERVED; 1/3 DISTANCE IN SPRINKLED BLDGS.
CHAPTER 8 - FEATURES OF FIRE PROTECTION
8-2 CONSTRUCTION AND COMPARTMENTATION
8-2.1.3 (1) SEPARATE BUILDINGS, IF A 2-HOUR OR GREATER VERTICALLY ALIGNED FIRE BARRIER WALL IN ACCORDANCE WITH NFPA 221, STANDARD FOR FIRE WALLS.

2012 NATIONAL FIRE CODES

NFPA 221
CHAPTER 2- FIRE WALLS
2-2 STRUCTURAL STABILITY AND STRENGTH
2-2.1 FIRE WALLS SHALL BE DESIGNED AND CONSTRUCTED TO REMAIN STABLE AFTER THE COLLAPSE OF THE STRUCTURE DUE TO FIRE ON EITHER SIDE OF THE WALL. FIRE WALLS CONSTRUCTED IN COMPLIANCE WITH THE REQUIREMENTS OF SECTION 2.3, 2.4, OR 2.5 SHALL BE DEEMED TO PROVIDE THE REQUIRED STABILITY.

2012 INTERNATIONAL BUILDING CODE

USE GROUP: B- BUSINESS

TABLE 503 - ALLOWABLE HEIGHT & AREA
TYPE IIIB - 3 STORY 19,000 SF

BASE TABULAR FACTOR	1.0
FRONTAGE INCREASE	Not Incl.
SPRINKLER INCREASE	2.0
MULTIPLIER	3.0
	x 19,000
TOTAL ALLOWABLE (w/ MODIFICATIONS)	57,000
ACTUAL	19,680

OCCUPANT LOAD CALCULATIONS

2012 INTERNATIONAL BUILDING CODE- TABLE 1004.1.2

OCCUPANCY	FLOOR AREA/ OCCUPANT
ASSEMBLY (WITH FIXED SEATS) 1 PER SEAT PLUS REMAINDER @	100 GROSS
BUSINESS AREAS	100 GROSS
ACCESSORY STORAGE/ MECHANICAL ROOMS	300 GROSS

PLUMBING FIXTURE CALCULATIONS

2012 INTERNATIONAL BUILDING CODE- TABLE 2902.1

PLUMBING FIXTURE OCCUPANT LOAD

OCCUPANCY	TOTAL	MALE	FEMALE
B	226	113	113

PLUMBING FIXTURE REQUIREMENTS - TABLE 2902.1

OCCUPANCY B	WATER CLOSET		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
MIN. REQUIREMENTS	1 PER 25 [1]	1 PER 25 [1]	1 PER 40 [2]	1 PER 40 [2]	1 PER 100	1 SINK
FIRST FLOOR						
CALCULATION					226 / 100	1 SINK
REQ. PER OCCUPANT LOAD	3.26	3.26	2.41	2.41	2.26	1 SINK
REQUIRED	4	4	3	3	3	1 SINK
PROVIDED	7	7	5	5	2	1 SINK

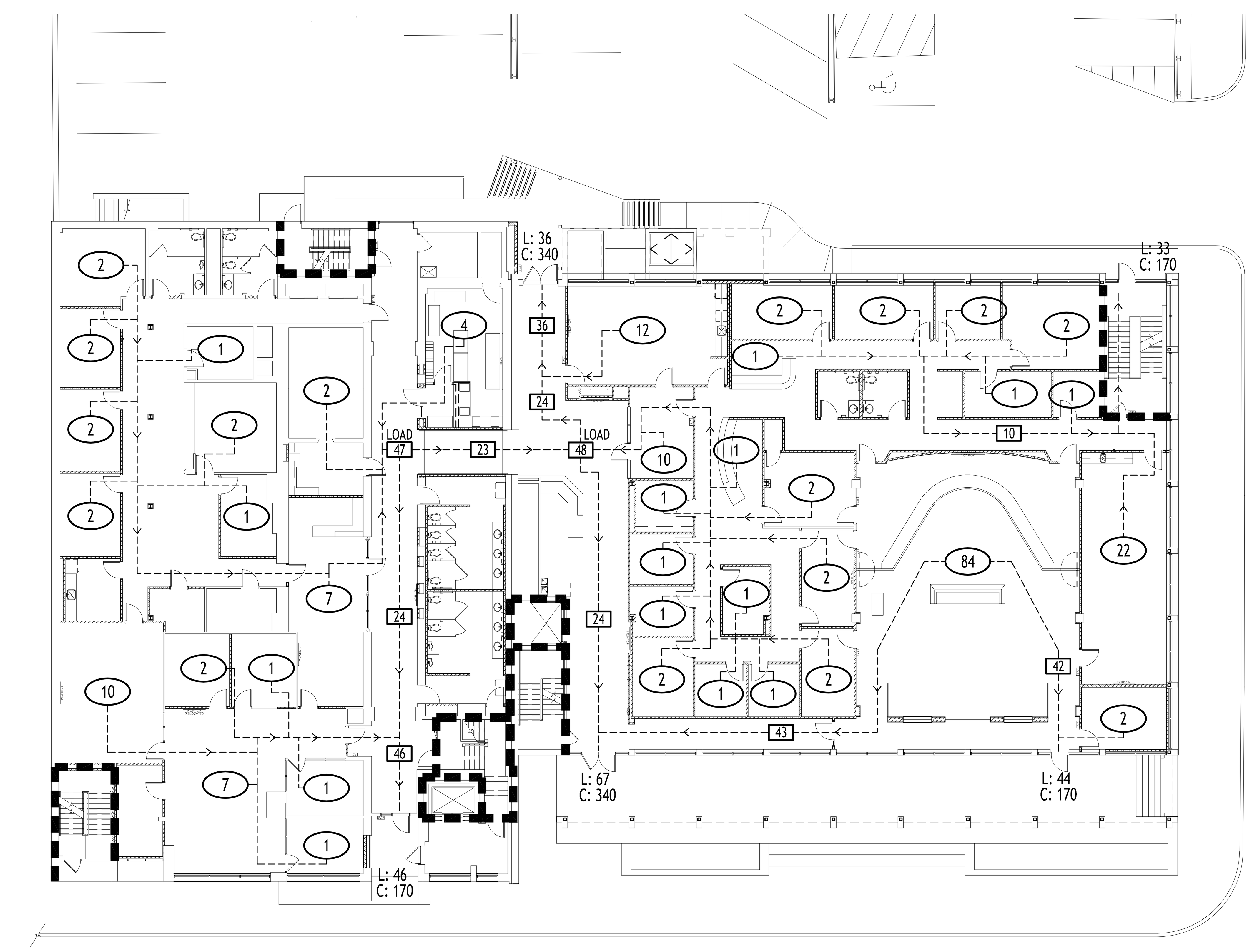
NOTES
1. 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50.
2. 1 PER 40 FOR THE FIRST 80 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 80.

FIRE PROTECTION PLAN NOTES

1. ALL THRU-WALL PENETRATIONS IN NON-RATED SMOKE PARTITIONS AND FIRE-RATED PARTITIONS SHALL BE APPROPRIATELY SEALED WITH APPROVED UL METHODS.
2. REFER TO SHEET CS-2 FOR WALLTYPE REQUIREMENETS AND FOR METHOD OF SEALING NON-RATED SMOKE PARTITIONS. REFER TO M/E DRAWINGS FOR METHOD OF SEALING FIRE RATED PARTITIONS.
3. ALL INSULATION SHALL BE FLAME SPREAD 25.
4. GLAZING IN NON-RATED SMOKE PARTITIONS SHALL RESIST THE PASSAGE OF SMOKE.
5. BUILDING CONTAINS A VOICE EVACUATION SYSTEM THROUGHOUT.
6. BUILDING IS FULLY SPRINKLERED.

LEGEND

1-HR FIRE-BARRIER WITH 1-HR RATED DOORS
OCCUPANT LOAD
TOTAL OCCUPANT LOAD MOVING IN DIRECTION OF EGRESS.
L: ### OCCUPANT LOAD THROUGH EGRESS DOOR
C: ### EGRESS CAPACITY OF DOORS



FLOOR PLAN FIRE PROTECTION PLAN 1 CS-3
1/16" = 1'-0"
1/16" = 1'-0" 5 0 10 20 30 40 SCALE FEET

REVISIONS
1 8/28/14 ADDENDUM #3
2 5/30/16 AS-BUILT

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CONFORMED SET

XREFS: TITLEBL; PLN1

FIRE PROTECTION PLAN & NOTES

CS-3

OF SHEETS

DATE : 12.06.16

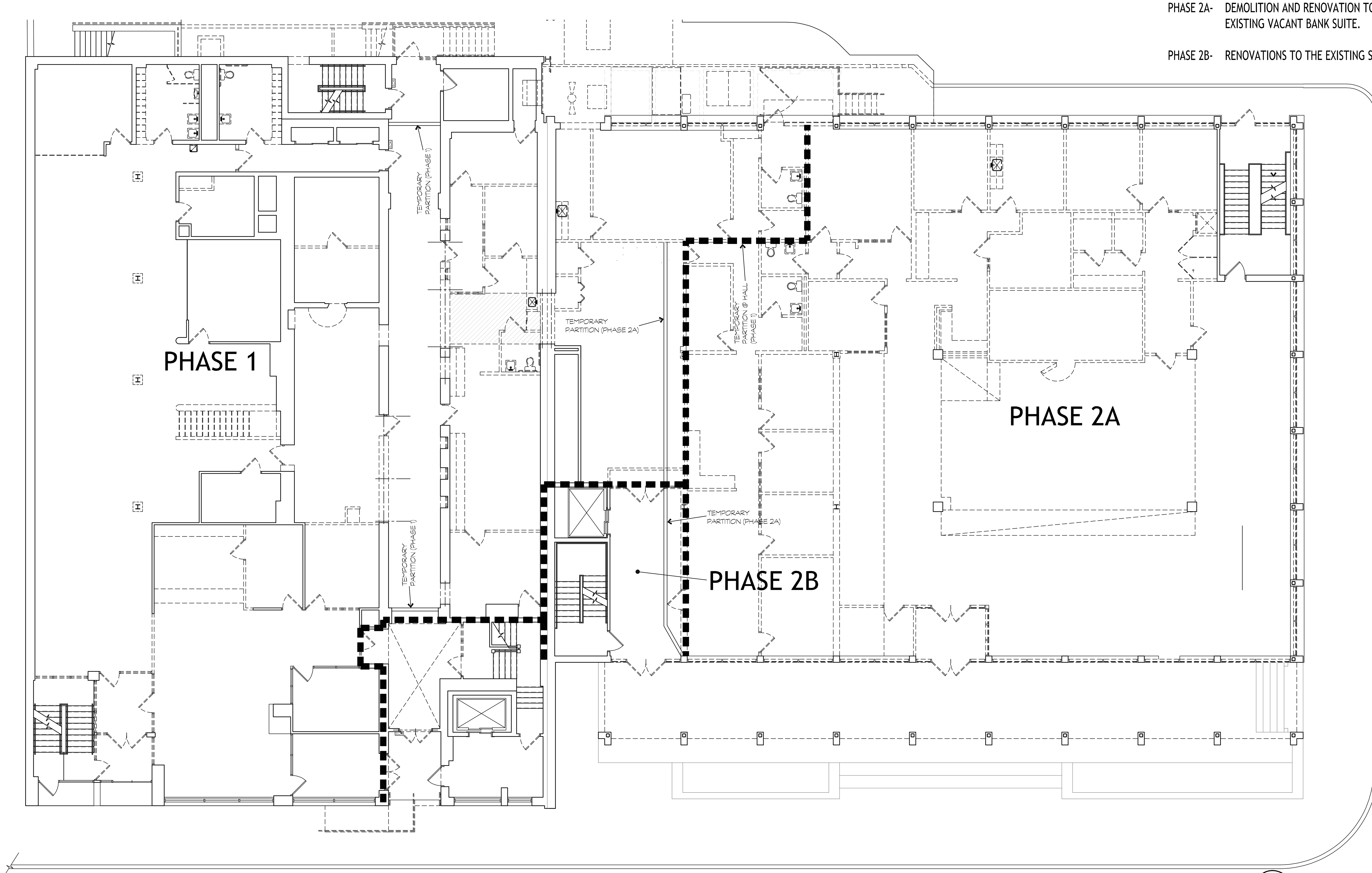
PHASING NOTES:

1. TEMPORARY PARTITIONS SHALL BE CONSTRUCTED OF 3 5/8" METAL STUDS w/ 1/2" GYP. BD. TAPE ALL JOINTS. SEAL PERIM. & ALL PENETRATIONS TO RESIST THE PASSAGE OF DUST.
2. MAINTAIN ALL COMPONENTS OF LIFE SAFETY & EGRESS FOR REMAINDER OF BUILDING.

PHASE 1- DEMOLITION AND RENOVATION TO THE EXISTING PUBLIC RELATIONS SUITE & MAILROOM.

PHASE 2A- DEMOLITION AND RENOVATION TO THE EXISTING VACANT BANK SUITE.

PHASE 2B- RENOVATIONS TO THE EXISTING SOUTH LOBBY.



PHASING PLAN (1/CS-4)

1/8" = 1'-0"

SCALE 5 0 5 10 15 20 FEET

REVISIONS

1 5/30/18 AS-BUILT

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CONFORMED SET

PHASING PLAN

CS-4

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLN1

DEMOLITION NOTES

1. REMOVE (E) STUD WALLS/DEMOUNTABLE PARTITION. PATCH & REPAIR ADJACENT WALLS & FLOOR AS REQUIRED.
2. SAWCUT & REMOVE (E) MASONRY WALL - PATCH & REPAIR ADJACENT WALLS & FLOOR AS REQUIRED. REMOVE TO MIN. 1 CMU COURSE BELOW FINISH SLAB.
3. REMOVE (E) PLYWD/ CEMENTITIOUS BD. FLOOR BUILD-UP DOWN TO CONC. SLAB. REFER TO STRUCTURAL DRAWINGS.
4. REMOVE (E) WINDOW FRAME, SILL, GLAZING, AND ASSOCIATED HARDWARE - PATCH & REPAIR ADJACENT WALLS AS REQUIRED
5. REMOVE (E) DOOR & FRAME AS SHOWN- PATCH & REPAIR ADJACENT WALLS & FLOOR AS REQUIRED.

5A. REMOVE (E) DOOR, (E) FRAME TO REMAIN

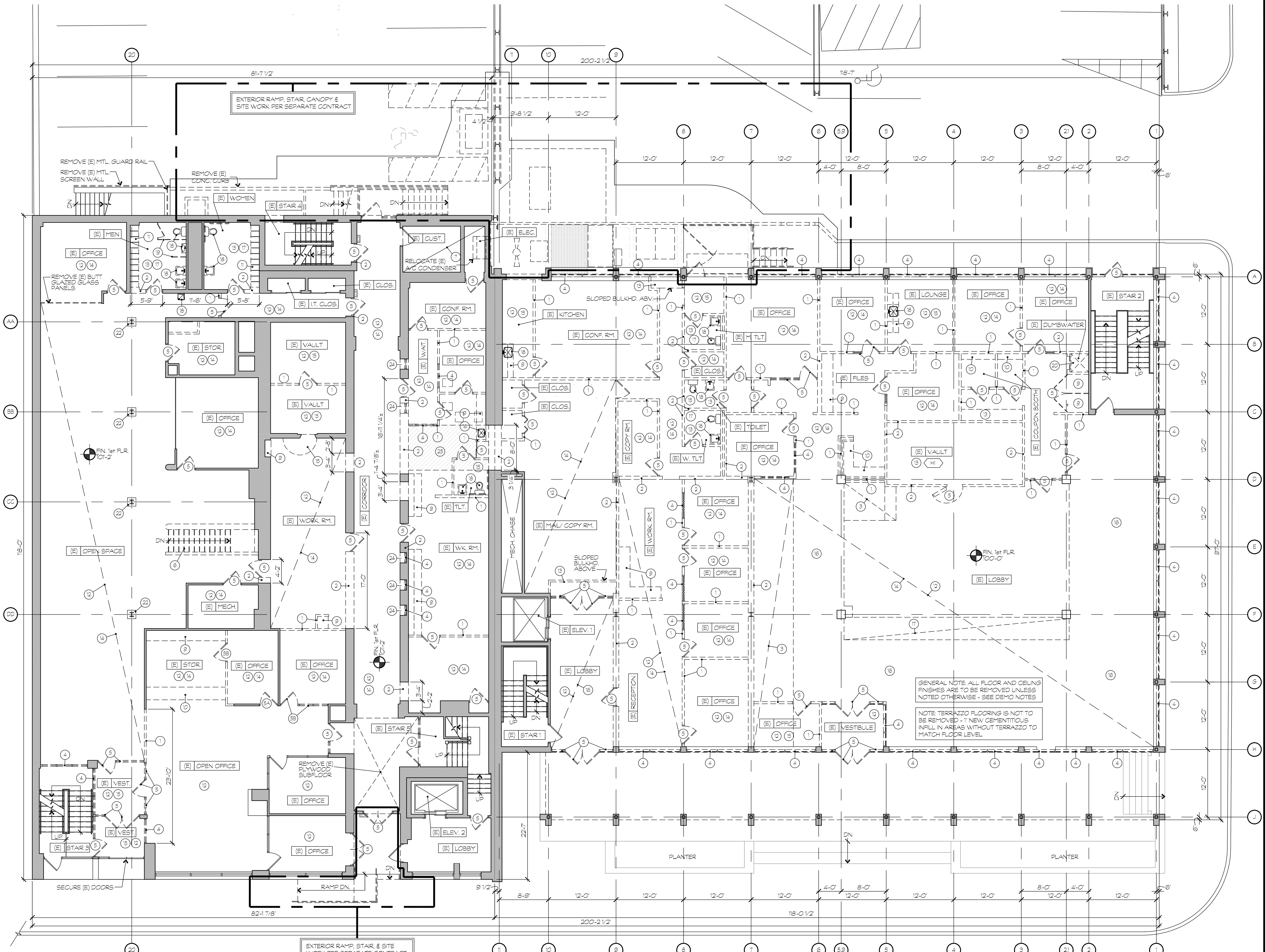
5B. REMOVE (E) DOOR, RELOCATE (E) FRAME

6. REMOVE (E) STL/CONC. OR WOOD STAIRS, HANDRAILS, SUPPORTS, & ANY SURROUNDING HALF WALLS - PATCH & REPAIR ADJACENT WALLS & INFILL FLOOR AS REQUIRED.
7. REMOVE (E) ROTTED WOOD FLOORING & ANY DAMAGED FLOOR FRAMING - PATCH & REPAIR ADJACENT WALLS AS REQUIRED
8. SAWCUT & REMOVE (E) CONC STAIR/ RAMP, & SIDEWALK. PATCH & REPAIR ADJACENT SURFACES AS REQUIRED. REFER TO CIVIL DRAWINGS FOR ADDITIONAL SITE WORK.
9. REMOVE (E) SHELVING/ CASEWORK & APPLIANCES - PATCH & REPAIR ADJACENT FINISHES AS REQUIRED.
10. REMOVE (E) DESK/COUNTERTOP & ASSOCIATED HARDWARE PATCH & REPAIR ADJACENT FINISHES AS REQUIRED
11. REMOVE (E) LOCKERS AS SHOWN. PATCH & REPAIR ADJACENT FINISHES AS REQUIRED.
12. REMOVE (E) SUSPENDED ACOUSTICAL TILE CEILING & GRID - PATCH & REPAIR ADJACENT WALLS AS REQUIRED.
13. REMOVE (E) GYP BD CEILING. PATCH & REPAIR ADJACENT SURFACES AS REQUIRED.
14. REMOVE (E) CARPET & BASE - PREPARE CONC. SLAB FOR NEW FLOOR FINISH.
15. REMOVE (E) VCT FLOORING & BASE - PREPARE CONC. SLAB FOR NEW FLOOR FINISH.
16. SCRAPE, CLEAN, & PREPARE (E) TERRAZZO FLOORING TO RECEIVE NEW FLOOR FINISH
17. REMOVE (E) MUD SET CERAMIC TILE AND SETTING BED AS SHOWN. PREPARE CONC. SLAB FOR NEW FLOOR FINISH.
18. REMOVE (E) PLUMBING FIXTURE- REFER TO PLUMBING DRAWINGS. PATCH & REPAIR ADJACENT FINISHES AS REQUIRED.
19. REMOVE (E) TOILET PARTITIONS, PARTITION DOORS AND/ OR ACCESSORIES. PATCH & REPAIR ADJACENT WALLS AND FLOOR AS REQUIRED.
20. REMOVE (E) DUMBWAITER CAB & ACCESSORIES. PATCH & REPAIR ADJACENT FINISHES AS REQUIRED.
21. REMOVE PORTION OF (E) PARKING DIVIDER AS SHOWN
22. REMOVE (E) MTL. FURRING/ GYP. BD. ENCLOSURE AROUND COLUMN
23. REMOVE (E) FLOOR FRAMING AS REQUIRED FOR NEW RAMP INSTALLATION (SEE NEW WORK)
24. REMOVE (E) PLANTERS. PATCH & REPAIR ADJACENT FINISHES AS REQUIRED

HAZMAT NOTES

H1. REMOVE (E) HAZMAT FLOOR MATERIAL. REFER TO HAZMAT SPECIFICATIONS.

H2. REFER TO HAZMAT SPECIFICATIONS FOR ADDITIONAL HAZMAT ABATEMENT MATERIALS & LOCATIONS.



FIRST FLOOR PLAN - DEMOLITION

1/8" = 1'-0"

REVISIONS

1	09.02.14 ADDENDUM #3
2	12/11/14 RFP #005
3	12/30/14 RFP #009
4	5/28/15 RFP #029
5	5/30/18 AS-BUILT

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LICENSE No. 8278

EXPIRATION DATE 09.02.14

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

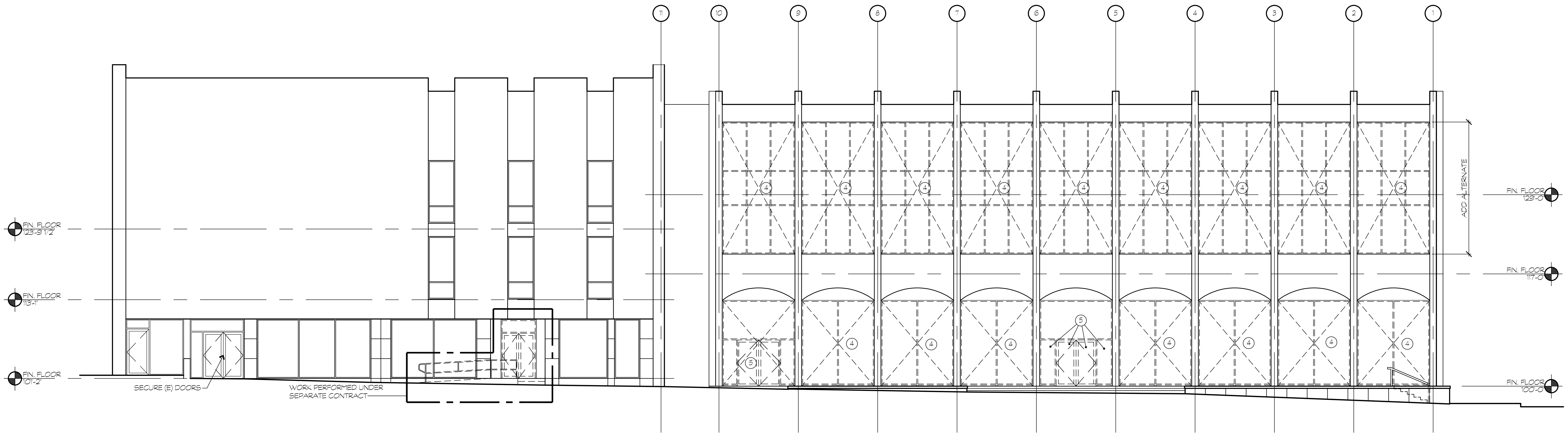
FIRST FLOOR PLAN - DEMO

D1.1

OF SHEETS

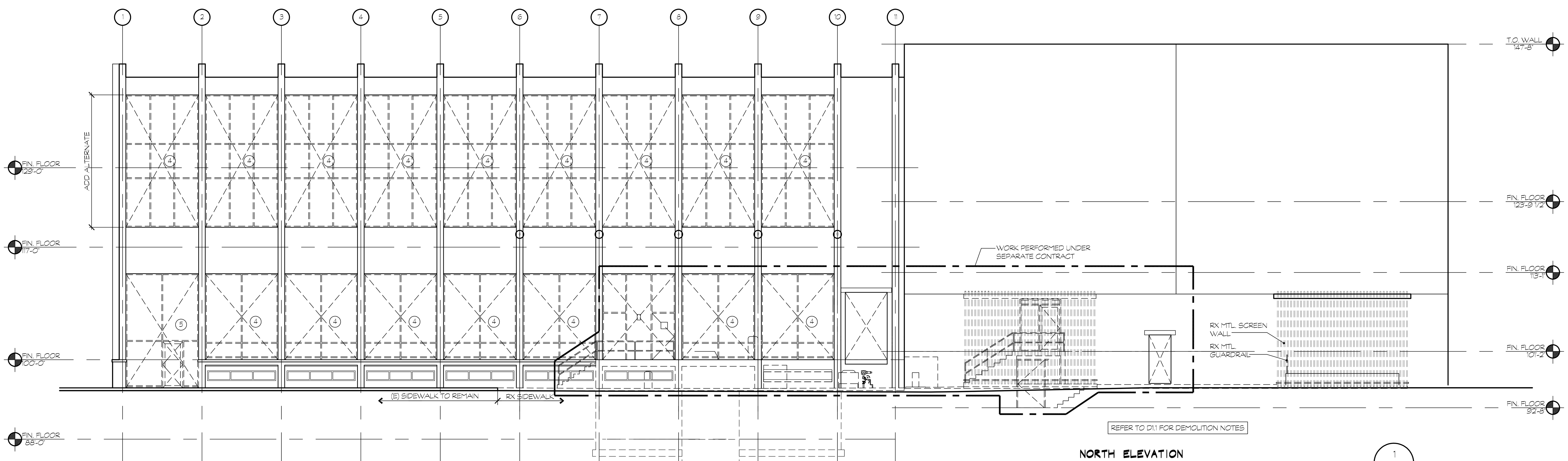
DATE : 12.06.16

XREFS: TITLEBL; PLN1



SOUTH ELEVATION 2 / A3.1

1/8" = 1'-0"



NORTH ELEVATION 1 / A3.1

1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

REVISIONS

1 5/30/18 AS-BUILT

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CONFORMED SET

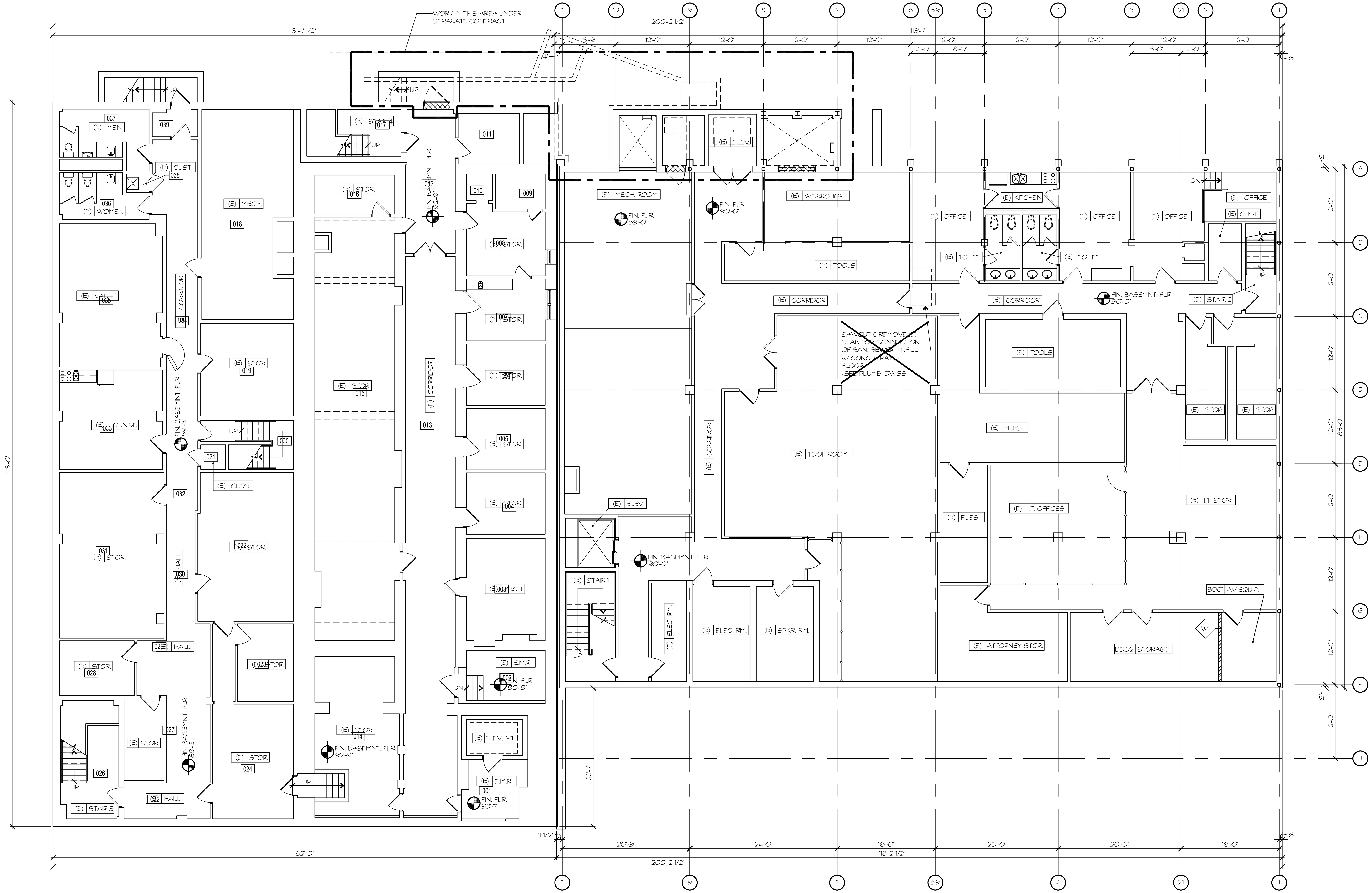
DEMO ELEVATIONS

D3.1

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; ELEV



BASEMENT PLAN

1/8" = 1'-0"

1 / A1.0

NORTH

REVISIONS

1. 09.02.14 ADDENDUM #3
2. 12/11/14 RFP #005
3. 5/30/16 AS-BUILT

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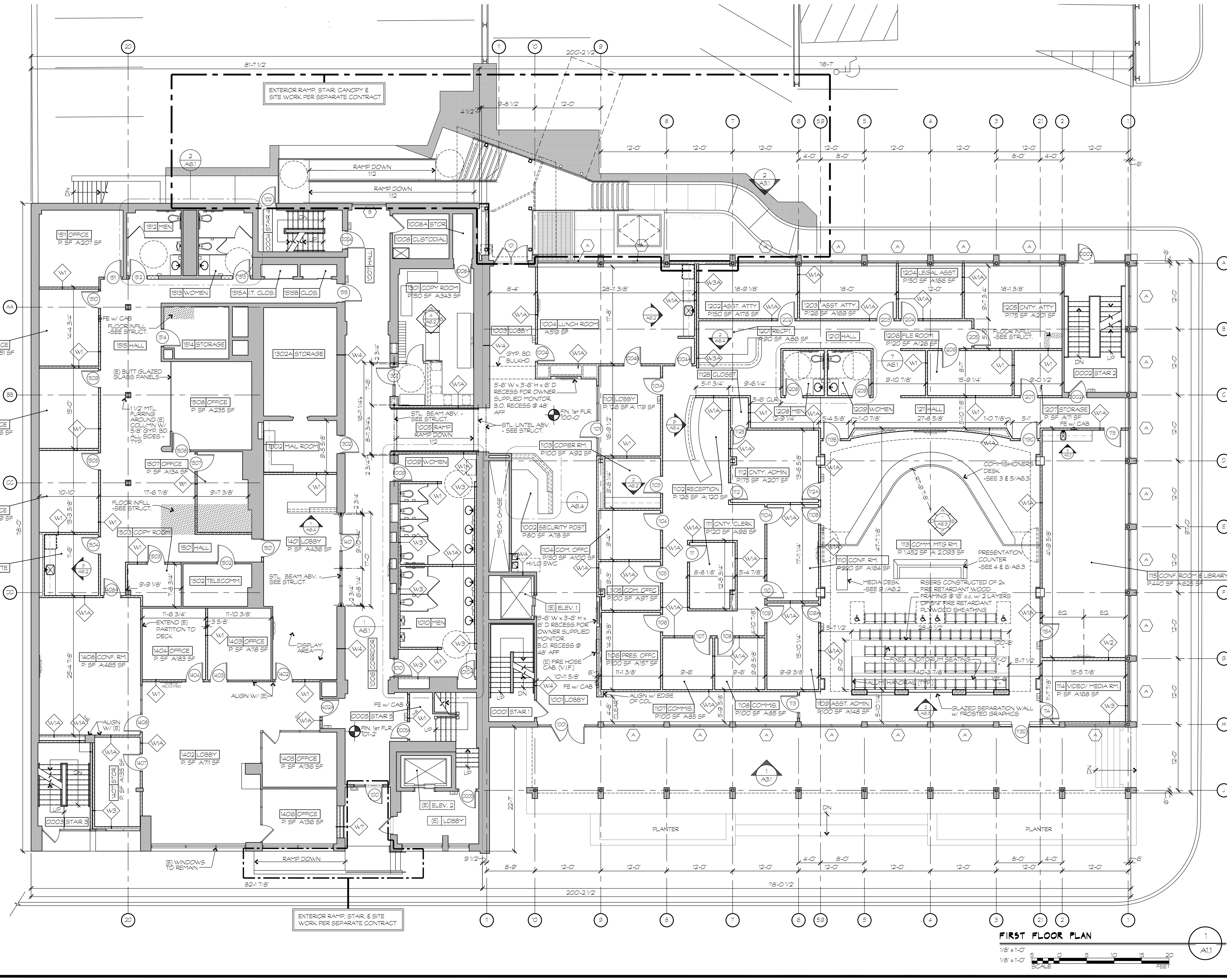
CONFORMED SET

BASEMENT PLAN

A1.0

OF SHEETS

DATE: 12.06.16



REVISIONS

- 8/28/14 ADDENDUM #3
- 11/20/14
- 12/11/14 RFP #001
- 12/30/14 RFP #005
- 12/30/14 RFP #009
- 5/28/15 RFP #023
- 5/28/15 RFP #029
- 6/2/15 RFP #030
- 1/8/16 RFP #027R1
- 3/14/16 RFP #027R3
- 4/15/16 RFP #051
- 5/6/16 DISCOVERED FIELD CONDITIONS
- 6/3/16 RFP #054
- 7/1/16 RFP #065
- 7/25/16 RFP #066
- 8/3/16 RFP #063
- 8/15/16 RFP #064
- 5/30/18 AS-BUILT

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CONFORMED SET

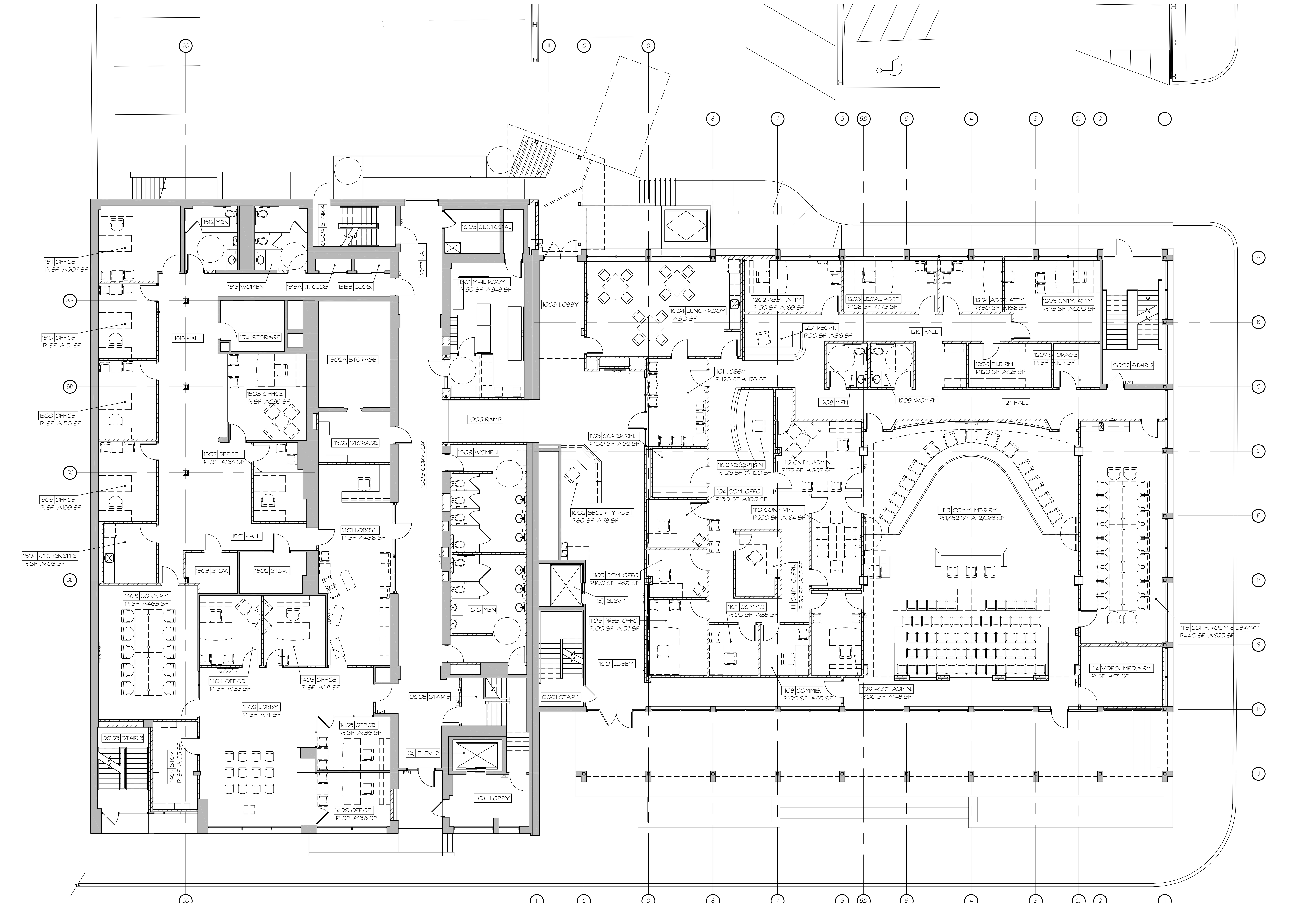
FIRST FLOOR PLAN

A1.1

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL_PLN



NOTE: THIS DRAWING FOR REFERENCE ONLY. ALL FURNITURE NOT IN CONTRACT (NIC) UNLESS NOTED OTHERWISE.

FIRST FLOOR FURNITURE PLAN

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

1
A1.2

NORTH

REVISIONS

1 5/30/18 AS-BUILT

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CONFORMED SET

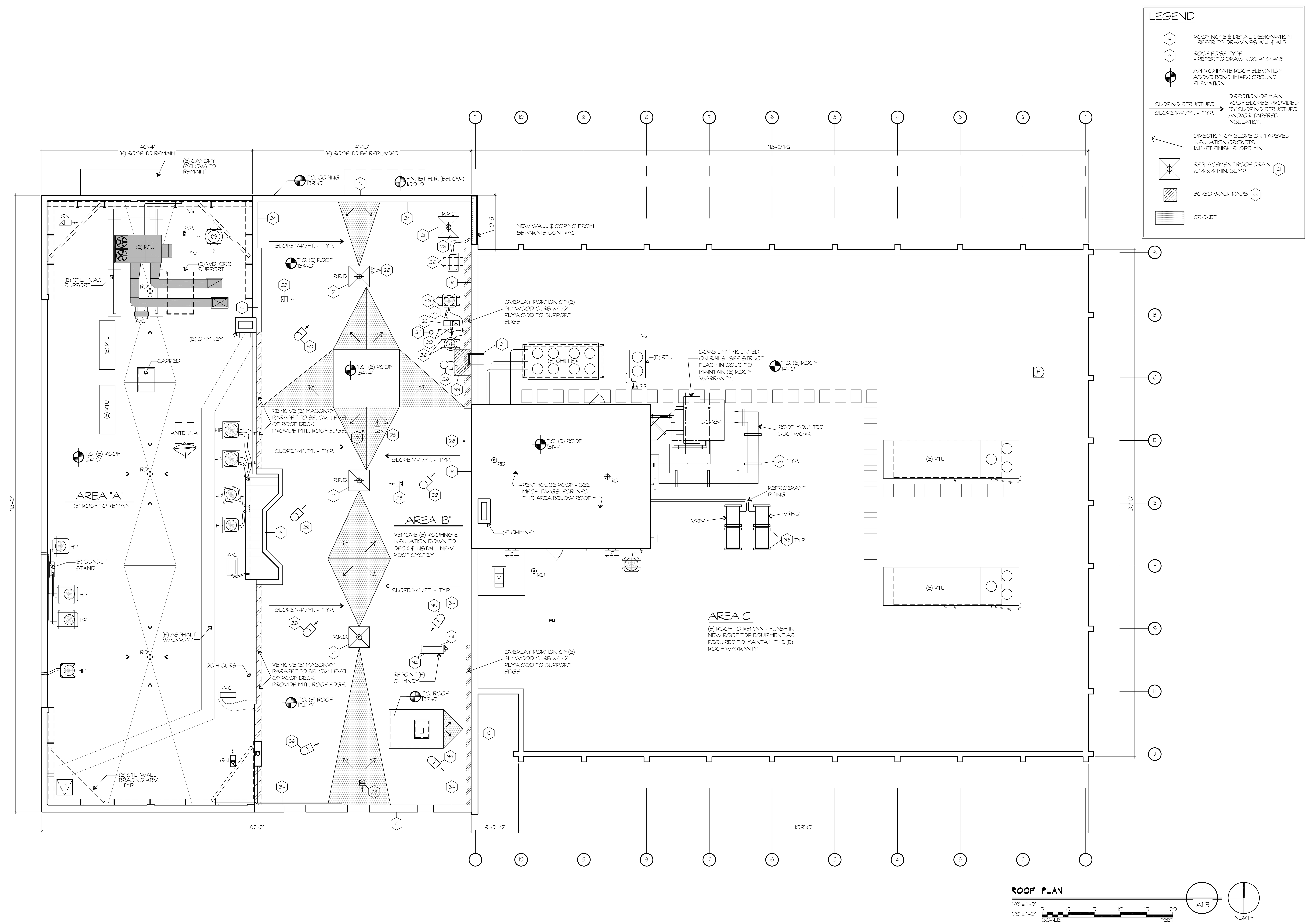
FIRST FLOOR FURNITURE PLAN

A1.2

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLN1



CONFORMED SET

REVISIONS

1. 9/3/14 ADDENDUM #4
2. 8/28/15 CCD #002 ROOF FIELD CONDITIONS
3. 1/18/16 ASI #005 ROOF LADDER LOCATION
4. 5/30/18 AS-BUILT

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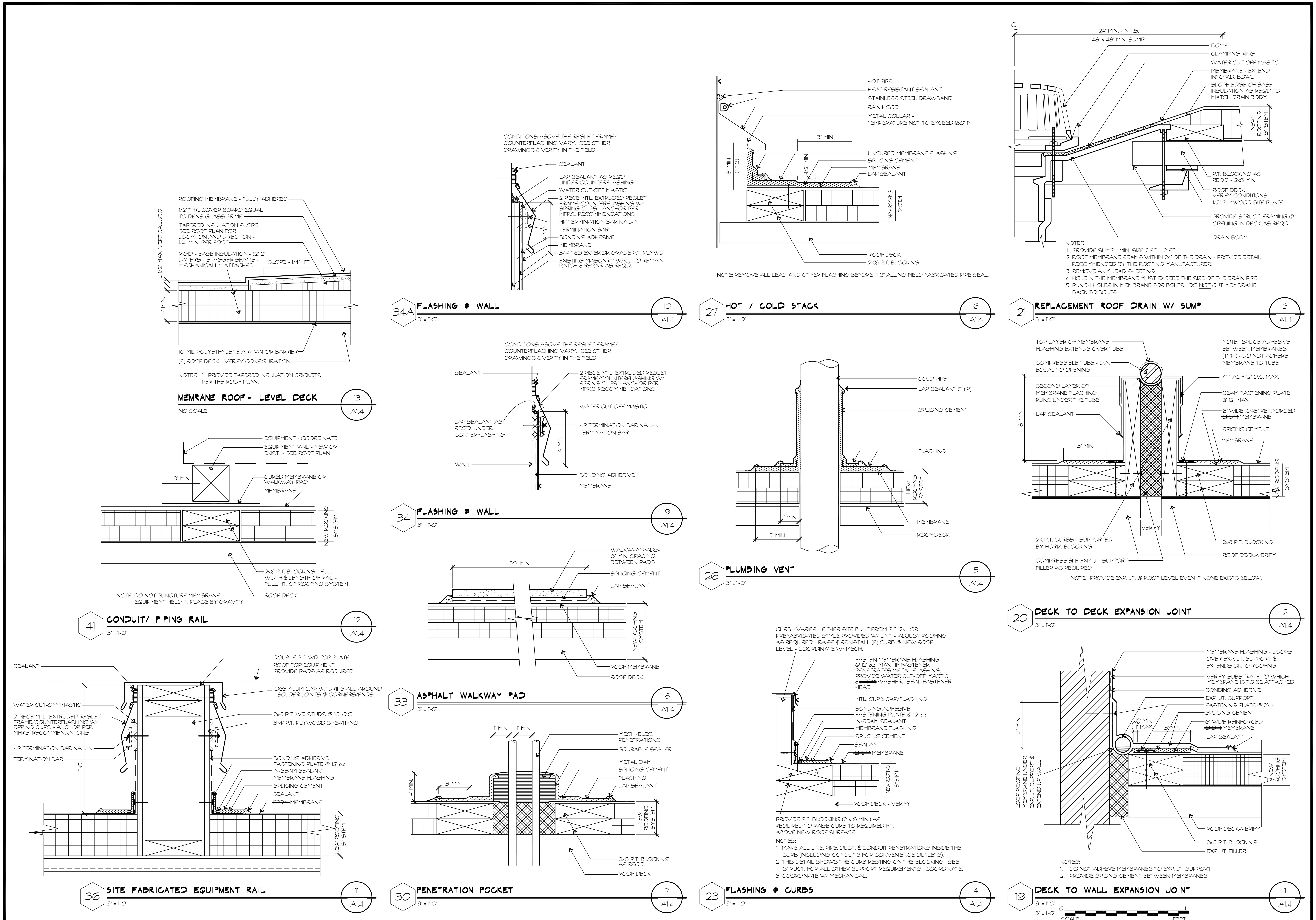
ROOF PLAN

A1.3

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL, PLN2



REVISIONS

1	09.04.14 ADDENDUM #4
2	5/30/16 AS-BUILT

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FIRST FLOOR RENOVATIONS

CONFORMED SET

ROOF DETAILS

A1.4

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL PLN

ROOFING NOTES - NOTES APPLY TO ALL ROOF PLANS & TO OTHER DRAWINGS AS NOTED.

A. VERIFY ALL CONDITIONS IN THE FIELD.

B. ROOF ELEVATIONS - ALL ELEVATIONS ABOVE BENCHMARK ARE APPROXIMATE. VERIFY ACTUAL CONDITIONS IN THE FIELD.

C. ALL WORK RELATED TO THE ROOFING SYSTEMS SHALL BE PERFORMED BY THE APPLICATOR OR BY PARTIES ACCEPTABLE TO THE ROOFING MANUFACTURERS AND QUALIFIED TO INSTALL ROOFING WITH THE SPECIFIED WARRANTIES.

D. COORDINATE ROOFING WITH OTHER WORK, ESPECIALLY MECHANICAL, PLUMBING, AND ELECTRICAL.

E. LOCATIONS OF ROOF TOP EQUIPMENT SHOWN ARE APPROXIMATE. COORDINATE WITH ACTUAL FIELD CONDITIONS. VERIFY IN THE FIELD. PROVIDE ROOFING AS REQUIRED TO ACCOMMODATE THE EQUIPMENT INSTALLED.

F. BLOCKING - PROVIDE ALL NEW PRESSURE TREATED - 2 x 6 MIN. BLOCKING, UNLESS NOTED OTHERWISE.

G. REMOVE EXISTING ROOF AND ALL ASSOCIATED FLASHING, BLOCKING, ETC... AND DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS.

H. PROVIDE A TEMPORARY ROOF CONSTRUCTED AS DETAILED ON ALL FLAT LIGHTWEGHT INSULATED OR TECTUM DECKS. PROVIDE ADEQUATE PROTECTION OF ALL ROOF DECKS DURING EXPOSURE.

I. NOT ALL ROOF NOTES LISTED BELOW APPLY TO THIS PROJECT. REFER TO ROOF PLANS AND SITE CONDITIONS FOR APPLICABLE NOTES & DETAILS.

NEW MEMBRANE ROOFING - AREAS OF ROOF REPLACEMENT -

7. THE ENTIRE NEW ROOFING SYSTEM (INCLUDING FLASHINGS, TRIM, & ROOF WORK RELATED TO MECHANICAL, PLUMBING, AND ELECTRICAL) SHALL BE COVERED BY THE APPLICABLE SPECIFIED WARRANTY.

8. EXISTING ROOF DECKS - VERIFY TYPES & CONDITION IN FIELD.

9. ROOF SLOPES - ARE A RESULT OF SLOPING ROOF DECK OR TAPERED INSULATION AND SHALL BE A MINIMUM OF ¼" PER FOOT, UNLESS OTHERWISE NOTED. ARROWS SHOW DIRECTION OF SLOPE. "JOINT LINES" ARE SHOWN WHEREVER THE DIRECTION OF SLOPE CHANGES (EVEN MINOR CHANGES). SEE NOTE #9 BELOW FOR CRICKETS.

10. NEW ROOFING SYSTEM
- EXISTING WOOD DECK
- BASE INSULATION (2) LAYERS 2" (4" TOTAL) MECHANICALLY ATTACHED - STAGGER JOINTS
- TAPERED INSULATION CRICKETS AS REQUIRED PER OTHER NOTES
- 1/2" THK. COVER BOARD EQUAL TO DENS GLASS PRIME
- ROOFING MEMBRANE - FULLY ADHERED

11. LEVEL DECK ROOFING SYSTEM (ROOF TYPE 1) - REFER TO DRAWING 13/A1.4. PROVIDE TAPERED INSULATION OVER BASE INSULATION FOR A MINIMUM 1/4 in. PER FT. SLOPE.

12. CRICKETS, BACK SLOPES, & SADDLES - PROVIDE TAPERED INSULATION CRICKETS WITH A MINIMUM BACK SLOPE TWICE MAIN SLOPE. CONFIGURE AS SHOWN ON THE ROOF PLAN TO DIRECT WATER TO THE ROOF DRAINS OR SCUPPERS. WHERE POSSIBLE, CRICKETS HAVE BEEN SIZED IN MODULES OF FOUR (4) FOOT WIDTHS. PROVIDE TAPERED EDGE STRIPS OF THE SAME SLOPE AS THE TAPERED INSULATION AS REQUIRED TO MAKE A SMOOTH TRANSITION FROM THE CRICKET TO THE ROOF SURFACE (NO VERTICAL JOGS).

13. BASE FLASHING FOR THIS PROJECT WILL BE SINGLE PLY MEMBRANE.
- VERIFY THAT THE SINGLE-PLY MEMBRANE IS SUITED FOR INSTALLATION IN CONTACT WITH ASPHALT BASED PRODUCTS.
- APPLY THE SINGLE-PLY MEMBRANE BASE FLASHING TO THE PARAPET SURFACE W/ THE WHITE SIDE OUT.
- STRIP OVER ALL SPLICES.
- MEMBRANE FLASHING ADHERED DIRECTLY TO MASONRY WALLS - VERIFY THIS IS ACCEPTABLE TO THE ROOFING MANUFACTURER FOR THE WARRANTY SPECIFIED. (IF NOT, NOTIFY THE ARCHITECT OF THE MANUFACTURER'S REQUIREMENTS.) CLEAN & SMOOTH THE MASONRY (ESP. @ THE JOINTS). SECURE & ADHERE THE MEMBRANE PER THE MANUFACTURER'S REQUIREMENTS.
- EXTEND THE SINGLE-PLY MEMBRANE BASE FLASHING ABOVE THE NEW CANT AS FAR AS ALLOWED BY THE ROOFING MANUFACTURER. IF THE HEIGHT OF THE BASE FLASHING MUST EXCEED THE FLASHING MANUFACTURER'S RECOMMENDED LIMITS, INTERRUPT THE FLASHING MEMBRANE & PROVIDE A TERMINATION BAR & SURFACE MOUNTED METAL APRON/COUNTER FLASHING. PROVIDE ADDITIONAL MEMBRANE ABOVE, LAPPING OVER THE COUNTER FLASHING, AND EXTENDING OVER THE PARAPET AS DESCRIBED BELOW. SECURE PER THE MANUFACTURER'S RECOMMENDATIONS.

14. MEMBRANE APPLIED TO VERTICAL WALLS - VERIFY THE VERTICAL SURFACES MEET THE MEMBRANE MANUFACTURER'S REQUIREMENTS FOR ATTACHMENT OF THE MEMBRANE. IF NOT PROVIDE EXTERIOR GRADE SHEATHING AS REQUIRED. PROVIDE ROOF MEMBRANE SECUREMENT & FLASHING @ THE BASE OF THE WALL. SEE OTHER NOTES FOR THE COPING & TERMINATION OF THE FLASHING

15. PARAPETS - INCLUDING METAL COPING W/ CONTINUOUS HOOK STRIPS/CLEATS ON BOTH SIDES. EXTEND MEMBRANE FLASHING OVER THE TOP OF THE BLOCKING & SEAL TO THE EXTERIOR FACE OF THE WALL. SEE THE WALL SECTIONS FOR ADJACENT CONSTRUCTION. SEE ROOF NOTE #11 FOR MEMBRANE APPLIED TO VERTICAL WALLS.

16. DECK TO WALL EXPANSION JOINTS - LOCATE WHERE INDICATED ON THE ROOF PLAN. VERIFY TOP OF SINGLE-PLY MEMBRANE BASE FLASHING IS 10" MIN. ABOVE THE ROOF SURFACE.

17. NOT USED

18. NOT USED

19. NOT USED

20. NOT USED

21. REPLACEMENT ROOF DRAIN AND SUMP - REDUCE THE INSULATION THICKNESS AS REQUIRED TO PROVIDE A 4' X 4' SUMP COMPOSED OF TAPERED INSULATION & TAPERED EDGE STRIPS. COORDINATE W/ PLUMBING.

22. HEIGHT ABOVE ROOF SURFACE FOR TERMINATION OF BASE FLASHING AT WALLS & AT CURB MOUNTED AND OTHER ROOFTOP EQUIPMENT SHALL BE 10" MINIMUM & AS REQUIRED FOR THE WARRANTY SPECIFIED FROM THE TOP OF THE NEW ROOF SURFACE TO THE TOP OF THE FLASHING. SET CURB HEIGHTS ACCORDINGLY. RAISE (E) CURBS AS REQUIRED.

23. CURB MOUNTED ROOF TOP EQUIPMENT - SEE NOTE # 22 ABOVE. COORDINATE WITH MECHANICAL. MAKE ALL LINE, PIPE, DUCT, & CONDUIT PENETRATIONS INSIDE THE CURB (INCLUDING CONDUITS FOR CONVENIENCE OUTLETS). IF THAT IS NOT POSSIBLE, PROVIDE DUCT CURBS, GOOSENECKS, AND PENETRATION POCKETS AS REQUIRED. (SEE OTHER ROOF NOTES.) ON THE UPHILL SIDE(S) OF THE CURB, PROVIDE CRICKETS WITH A MINIMUM BACK SLOPE TWICE THE MAIN SLOPE (EVEN IF NOT SHOWN). AT CONDENSATE LINES DRAINING ONTO THE ROOF SURFACE, PROVIDE CONC. SPLASH BLOCKS. COORDINATE W/ STRUCTURAL & MECHANICAL.

24. NOT USED

25. PAD MOUNTED ROOF TOP EQUIPMENT - PROVIDE P.T. BLOCKING AROUND THE PERIMETER OF THE EQUIPMENT PAD & FULL THICKNESS OF THE BASE INSULATION, TAPERED INSULATION (IF ANY), & PROTECTION BOARD. PROVIDE ADDITIONAL CAP SHEET UNDER THE ENTIRE EQUIPMENT PAD. AS REQUIRED, PROVIDE PENETRATION POCKET(S). VERIFY PADS SITTING ON TOP OF THE ROOF SURFACE WILL BE HELD IN PLACE BY THE WEIGHT OF THE EQUIPMENT SUPPORTED. DO NOT PUNCTURE THE ROOFING TO ATTACH THE PAD. PROVIDE GOOSENECKS, PENETRATION POCKETS AND DUCT CURBS AS REQUIRED.

26. COLD ROUND VENTS OR PIPES THROUGH THE ROOF - VERIFY TOP IS 10" MINIMUM ABOVE THE NEW ROOF SURFACE. EXTEND AS REQUIRED. SEAL LEAD FLASHING TO INSIDE OF PIPE.

27. REMOVE (E) PARAPET MOUNTED EQUIPMENT - RE-INSTALL UPON COMPLETION OF BASE FLASHING ON PARAPET.

28. GOOSENECKS - EXTEND A MINIMUM 12" ABOVE THE FINISHED SURFACE OF THE ROOF. MAKE ALL LINE, WIRE, CONDUIT, ETC... PENETRATIONS OUTSIDE OF CURBS THROUGH GOOSENECKS. COORDINATE w/ MECHANICAL & ELECTRICAL.

29. PIPE PORTALS & CURBS - FOR PIPE CONNECTIONS PROVIDE PIPE PORTALS (INCLUDING COVERS & CAPS) MOUNTED ON CURBS. COORDINATE WITH MECHANICAL AND PLUMBING.

30. PENETRATION POCKETS - ONLY WHERE GOOSENECKS OR PIPE PORTALS ARE IMPOSSIBLE, PROVIDE SEALER POCKETS W/ HOODS PER DETAILS. REVIEW THESE SITUATIONS WITH THE OWNER AND ARCHITECT.

31. ROOF LADDER - AT LOCATIONS AS SHOWN ON ROOF PLAN - PAINT. VERIFY EXISTING WALL & ROOF EDGE CONDITIONS FOR ATTACHMENT REQUIREMENTS.

32. NOT USED

33. WALK PADS - LOCATE PER ROOF PLAN. COORDINATE PADS WITH ROOF SLOPES AND CRICKETS. LOCATE PADS TO ALLOW FOR FLOW OF WATER DOWN SLOPE ESPECIALLY AT VALLEYS. INTERRUPT PADS ON AN ANGLE AT VALLEYS. NOTIFY ARCHITECT IF WALKWAY LAYOUT SHOWN IMPEDES WATER FLOW & MAKE ADJUSTMENTS AS REQUIRED. PROVIDE EXTRA PADS AT BOTH SIDES OF PARAPETS, @ ROOF LADDERS, & ROOF HATCHES AS SHOWN.

34. TERMINATION ALONG A VERTICAL EDGE - PROVIDE PER MANUFACTURER'S DETAIL. PROVIDE MTL. RECEIVER/COUNTERFLASHING (incl. BACKER ROD & SEALANT) TO COVER THE TERMINATION. INSULATION & COUNTERFLASHING SHALL NOT EXCEED HEIGHT OF EXISTING THRU WALL FLASHING. VERIFY & COORDINATE IN FIELD. MODIFY TAPERED INSULATION, CRICKET OR SLOPE ACCORDINGLY. NOTIFY OWNER/ARCHITECT OF POTENTIAL CONFLICTS.

35. NOTUSED

36. RAIL MOUNTED ROOF TOP EQUIPMENT ON CURB STYLE RAILS SITTING DIRECTLY ON THE ROOF DECK- PROVIDE ROOFING SIMILAR TO ROOF NOTE # 23. PROVIDE PENETRATION POCKETS AND DUCT CURBS AS REQUIRED. PROVIDE CONC. SPLASH BLOCKS AT CONDENSATE LINES DRAINING ONTO THE ROOF SURFACE.

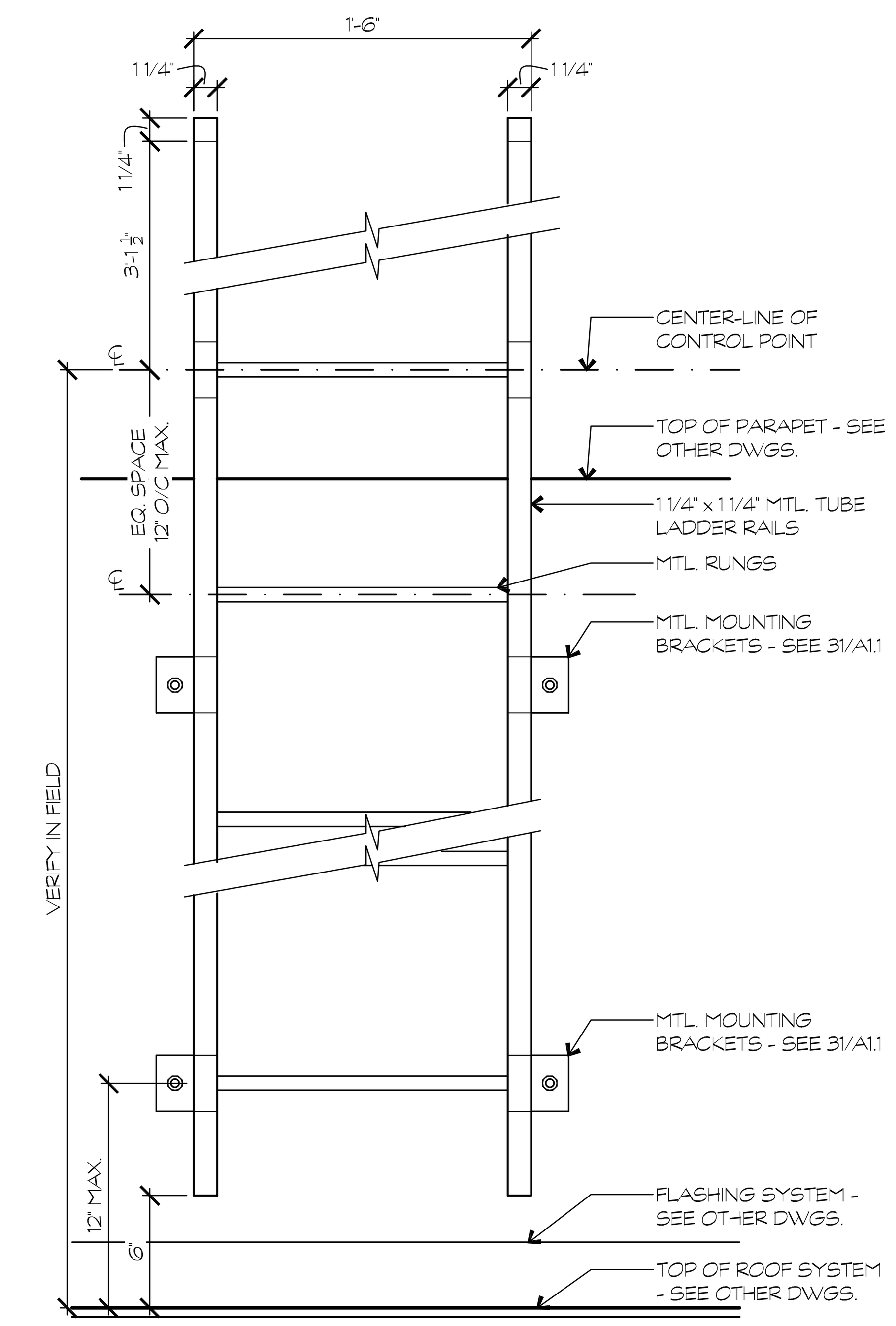
37. NOT USED

38. NOT USED

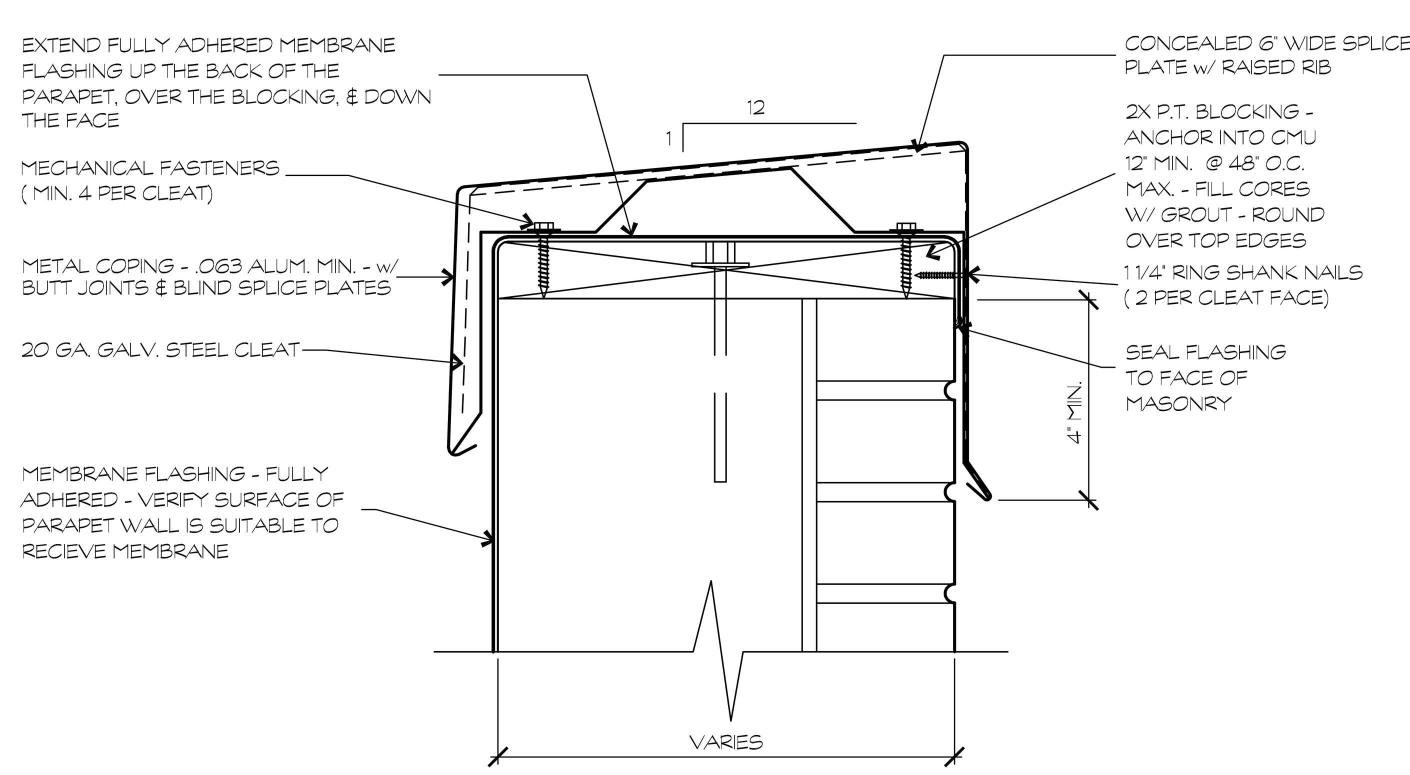
39. EXISTING GOOSENECK TO BE REMOVED - REMOVE (E) GOOSENECK AND ASSOCIATED DUCTWORK. INFILL (E) OPENING WITH METAL DECK AS REQUIRED. INSTALL NEW ROOF SYSTEM AS INDICATED ON THE DRAWINGS.

40. NOT USED -

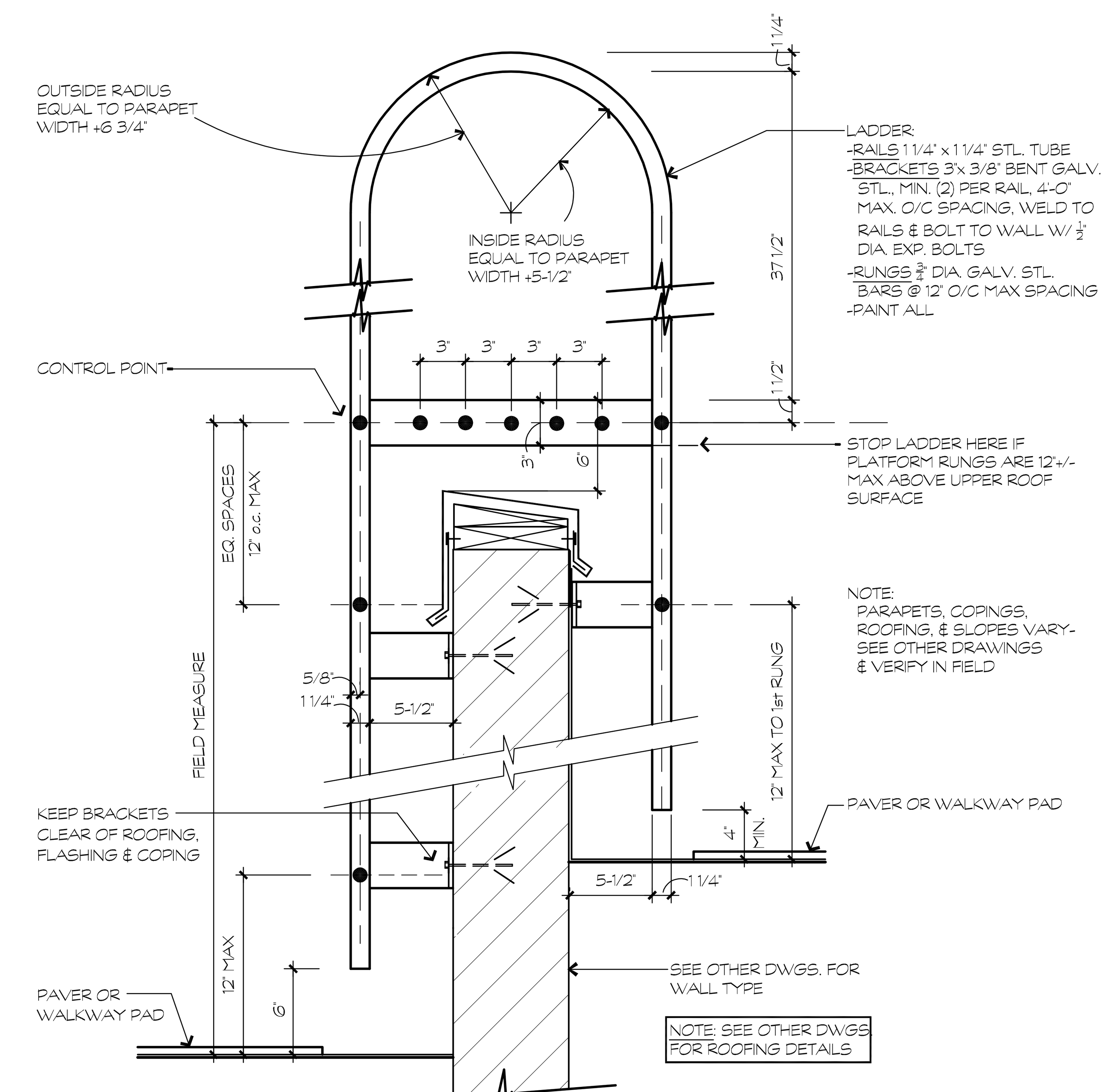
41. CONDUIT/ PIPING RAIL - PROVIDE PRESSURE TREATED 4" x 4" WOOD SLEEPER. SPACING AS REQUIRED BY MANUFACTURER TO SUPPORT CONDUIT & PIPING.



ROOF LADDER 31A / A1.5
1 1/2" = 1'-0"



C PARAPET COPING 1 / A1.5
3" = 1'-0"
3" = 1'-0" 0 1 SCALE FEET



31 ROOF LADDER 31 / A1.5
1 1/2" = 1'-0"
1 1/2" = 1'-0" 1 0 1 SCALE FEET

REVISIONS

1 5/30/18 AS-BUILT

DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK IS PARTLY DIAGRAMMATIC. IT SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR SERVE AS ERECTION SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND.

LICENSE No. 8278

EXPIRATION DATE 09.02.14

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BFM BUSHEY FEIGHT MORIN ARCHITECTS INC.
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301-733-5600 Fax 301-733-5612
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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

ROOF NOTES & DETAILS

A1.5

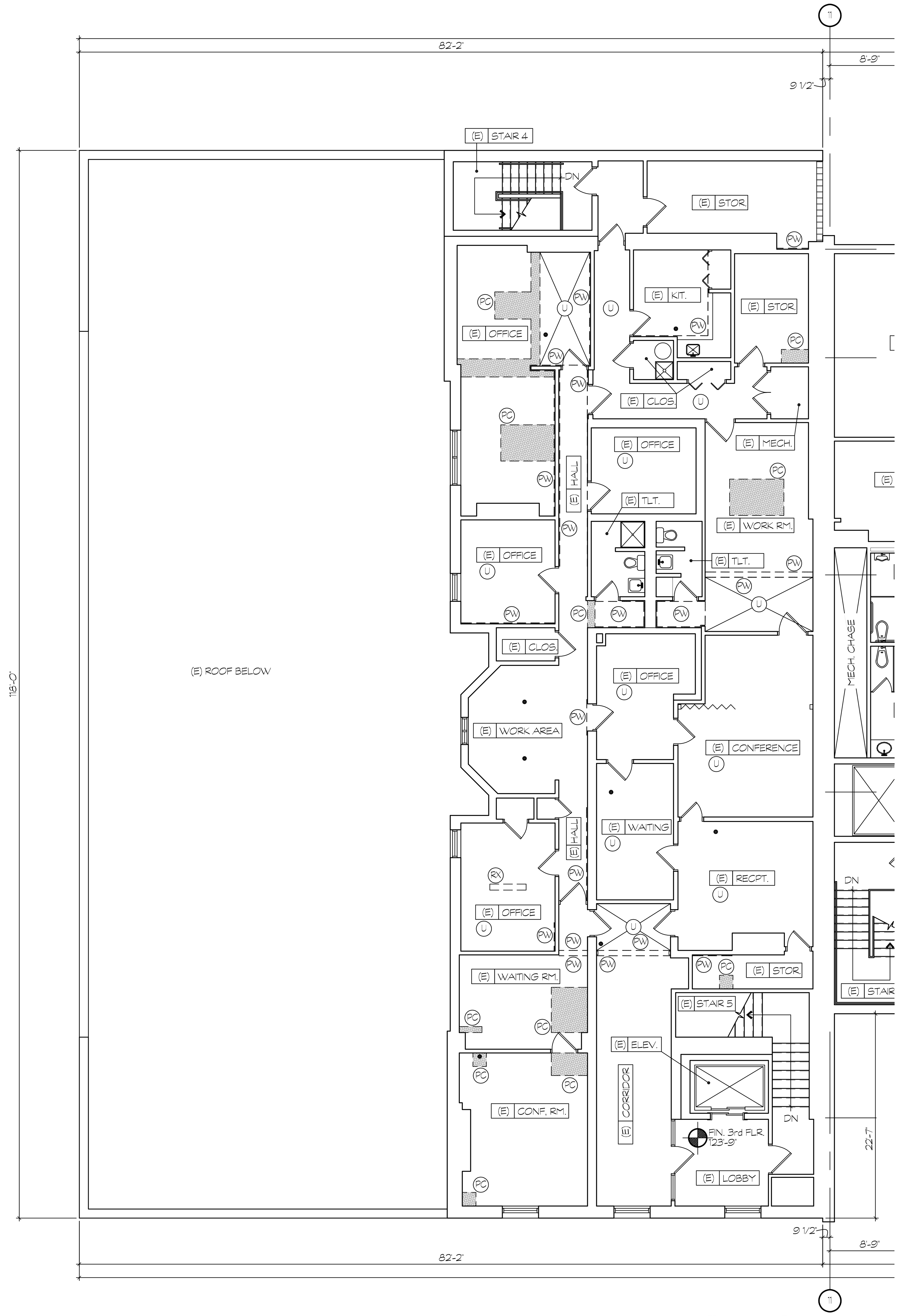
OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLN1

LEGEND

PW	PATCH (E) WALL ABOVE CLG./ EXTEND GYP. BD. TO PLASTER CLG.
RX	REMOVE (E) WALL PLASTER
U	TURN SPRINKLER HEADS UP ABOVE ACOUSTICAL CLG.
PC	PATCH (E) PLASTER CLG. - OVERLAY w/ 5/8" GYP. BD. & FIRE CAULK @ PERIM.
•	OPEN JUNCTION BOX (NOT IN CONTRACT)



THIRD FLOOR PLAN

1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

1 / A1.6

NORTH

REVISIONS

1 6/8/15 RFP #035 ENTIRE SHEET ADDED

2 5/30/16 AS-BUILT

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THIRD FLOOR PLAN

A1.6

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL_PLN

ROOM FINISH SCHEDULE

NO	NAME	FLOOR	BASE	WALL A	WALL B	WALL C	WALL D	CEILING MAT'L	CEILING HT	REMARKS
(E)	STAIR 1	-	-	-	-	-	-	-	-	NO WORK
(E)	STAIR 2	-	-	-	-	-	-	-	-	NO WORK
(E)	STAIR 3	-	-	-	-	-	-	-	-	NO WORK
(E)	STAIR 4	-	-	-	-	-	-	-	-	NO WORK
(E)	STAIR 5	-	-	-	-	-	-	-	-	NO WORK
(E)	ELEVATOR 1	F3	-	-	-	-	-	-	-	ADD ALTERNATE #2
(E)	ELEVATOR 2	-	-	-	-	-	-	-	-	NO WORK
1001	LOBBY	F3	B3	W1/ W3	W1/ W3	W1/ W3	W1/ W3	C1	10'-0"	W3 TO 3'-4" AFF
1002	SECURITY POST	F3	B3	-	-	W1/ W5	W1/ W5	C1	10'-0"	
1003	LOBBY	F3	B3	W1/ W3	W1/ W3	W1/ W3	W1/ W3	C1	10'-0"	W3 TO 3'-4" AFF
1004	LUNCH ROOM	F1	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1005	RAMP	F3	B3	W1	-	W1	-	C1	-	
1006	CORRIDOR	F3	B3	W1	W1	W1	W1	C1	8'-3"	
1007	HALL	F3	B3	W1	W1	W1	W1	C1	8'-6"	
1008	CUSTODIAL	F1	B1	W1	W1	W1	W1	C1	8'-6"	
1009	WOMEN'S TOILET	F3	B3	W4	W4	W4	W4	C1	8'-6"	
1010	MEN'S TOILET	F3	B3	W4	W4	W4	W4	C1	8'-6"	
1101	LOBBY	F2	B1	W1	W5	W1	W1/ W5	C1	9'-0"	
1102	RECEPTION	F2	B1	W1	W1	-	-	C1	10'-0"	
1103	COPIER ROOM	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1104	COMMISSIONER OFFICE	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1105	COMMISSIONER OFFICE	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1106	COMM. PRES. OFFICE	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1107	COMMISSIONER OFFICE	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1108	COMMISSIONER OFFICE	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1109	ASST. COUNTY ADMIN.	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1110	CONFERENCE ROOM	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1111	COUNTY CLERK	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1112	COUNTY ADMINISTRATOR	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1113	COMMISSIONER MTG. RM.	F2	B4	W1/ W3	W1/ W3	W1/ W3	W1/ W3	C2 / C3	13'-0"	SEE 1 & 2/A6.3
1114	VIDEO/ MEDIA ROOM	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1115	CONF. ROOM & LIBRARY	F2	B1	W1	W1	W1	W1	C1	9'-0"	
1201	RECEPTION	F2	B1	W1	-	-	W1	C1	10'-0"	
1202	ASSISTANT ATTORNEY	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1203	LEGAL ASSISTANT	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1204	ASSISTANT ATTORNEY	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1205	COUNTY ATTORNEY	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1206	FILE ROOM	F1	B1	W1	W1	W1	W1	C1	9'-0"	
1207	STORAGE	F1	B1	W1	W1	W1	W1	C1	9'-0"	
1208	MEN'S TOILET	F3	B3	W1	W1	W1	W1	C1	9'-0"	
1209	WOMEN'S TOILET	F3	B3	W1	W1	W1	W1	C1	9'-0"	
1210	HALL	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1211	HALL	F2	B1	W1/ W5	W1	W1	W1	C1	10'-0"	
1301	MAIL ROOM	F2	B1	W1/ W5	W1	W1	W1/ W5	C1	8'-6"	
1302	STORAGE	F1	B1	W1	W1	W1	W1	C1	8'-6"	

ROOM FINISH SCHEDULE

NO	NAME	FLOOR	BASE	WALL A	WALL B	WALL C	WALL D	CEILING MATL	CEILING HT	REMARKS
1302A	STORAGE	F1	B1	W1	W1	W1	W1	C1	8'-6"	
1401	LOBBY	F2	B1	W1	W1/ W5	W1	W1	C1	8'-2"	
1402	OPEN OFFICE	(E)	(E)	(E)	(E)	(E)	W1/ W5	C1	8'-6"	
1403	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1404	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1405	OFFICE	(E)	(E)	(E)	(E)	(E)	(E)	C1	9'-0"	
1406	OFFICE	(E)	(E)	(E)	(E)	(E)	(E)	C1	8'-6"	
1407	STORAGE	F1	B1	W1	W1	W1	W1	C1	8'-6"	
1408	CONFERENCE ROOM	F2	B1	W1	W1/ W5	W1	W1	C1	8'-6"	
1501	HALL	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1502	TELECOMM. ROOM	F1	B1	(E)	(E)	(E)	(E)	(E)	-	
1503	STORAGE	F1	B1	W1	W1	W1	W1	C1	8'-6"	
1504	KITCHENETTE	F1	B1	W1	W1	W1	W1	C1	8'-6"	
1505	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1507	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1508	OFFICE	F2	B1	W1	W1	W1	W1/ W5	C1	8'-6"	
1509	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1510	OFFICE	F2	B1	W1	W1	W1	W1	C1	8'-6"	
1511	OFFICE	F2	B1	W1	W1	W1/ W5	W1	C1	8'-6"	
1512	MEN'S TOILET	F3	B3	W2	W4	W2	W2	C1	8'-6"	
1513	WOMEN'S TOILET	F3	B3	W2	W2	W2	W4	C1	8'-6"	
1514	STORAGE	F1	B1	W1	W1	W1	W1	C1	8'-0"	
1515	HALL	F2	B1	W1	W1	W1	W1	C1	8'-2"	
1515A	I.T. CLOSET	F1	B1	(E)	(E)	(E)	(E)	-	-	
1515B	CLOSET	F1	B1	(E)	(E)	(E)	(E)	-	-	

LEGEND

FLOORS	WALLS
F1- VINYL COMPOSITION TILE (VCT)	W1- GYP. BOARD -PAINT
F2- CARPET TILE	W2- CMU -PAINT
F3- PORCELAIN TILE	W3- VENEERED WOOD PANEL
	W4- CERAMIC TILE
	W5- GLAZING & ALUM. FRAMES

BASE	CEILINGS
B1- VINYL COVE BASE	C1 - SUSPENDED ACOUSTICAL CLG. TILE (TYPE 1)
B2- CERAMIC TILE	C2 - SUSPENDED ACOUSTICAL CLG. TILE (TYPE 2)
B3- PORCELAIN TILE	C3 - GYP BD (PAINT)
B4- WOOD BASE	

NOTES

REVISIONS

1. 8/28/14 ADDENDUM #3
2. 9/3/14 ADDENDUM #4
3. RFP# ------
4. 5/30/18 AS-BUILT

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FIRST FLOOR RENOVATIONS

CONFORMED SET

ROOM FINISH SCHEDULE

A2.1

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLNB

DOOR SCHEDULE

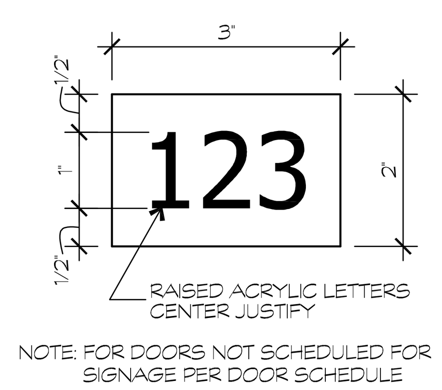
DOOR						FRAME				DETAILS SEE SHEET A2.3			HARD-WARE	SIGNAGE	LABEL	REMARKS
NO	ROOM LOCATION	SIZE	TYPE	MAT'L.	GLAZ	TYPE	MAT'L.	WIDTH	GLAZ	JAMB	HEAD	THRS				
0002	STAIR 2	3'-0" x 7-0"	D	ALUM.	G-5	M	ALUM.	7 1/2"	G-6/G-7	-	-	-	06	-	-	NOTE 5
0002A	STAIR 2	(E)	-	-	-	-	-	-	-	-	-	-	(E)	-	-	NOTE 5
0004	STAIR 4	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	-	-	-	6A	-	-	NOTE 6
0005	STAIR 5	3'-0" x 7-0"	B SIM.	WD.	G-4	A1	H.M.	5 7/8"	-	3 SIM	4 SIM	-		-	1 HR.	NOTE 5
0005A	STAIR 5	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3 SIM	4 SIM	-		-	1 HR.	NOTE 5
1001	LOBBY	(2) 3'-0" x 7-0"	D	ALUM.	G-5	L	ALUM.	7 1/2"	G-6/G-7	-	-	-	07	-	-	NOTE 7
1004	LUNCHROOM	3'-0" x 7-0"	A	WD.	-	A1	ALUM.	4 1/2"	G-4	3	4	12	08	STAFF ONLY	-	NOTE 5
1004A	LUNCHROOM	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	11	02	-	-	-
1004B	LUNCHROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	02	-	-	-
1007	HALL	NOT USED	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1009	WOMEN	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	7	8	-	03	WOMEN	-	HC SYM.
1010	MEN	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	7	8	-	03	MEN	-	HC SYM.
1010	MEN	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	7	8	-	03	MEN	-	HC SYM.
1101	LOBBY	3'-0" x 7-0"	C	ALUM.	G-4	J	ALUM.	4 1/2"	G-4	1	2	-	02	-	-	-
1101A	LOBBY	3'-0" x 7-0"	E	WD.	G-4	A1	H.M.	5 7/8"	-	1	2	-	09	-	-	NOTE 5 FROSTED GLAZING
1103	COPIER ROOM	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	11	02	WORK ROOM	-	-
1104	COMMISSONER'S OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4		01	COMMISSIONER	-	NOTE 8
1105	COMMISSONER'S OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	COMMISSIONER	-	NOTE 8
1106	PRESIDENT'S OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	PRESIDENT	-	NOTE 8
1107	COMMISSONER'S OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	COMMISSIONER	-	NOTE 8
1108	COMMISSONER'S OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	COMMISSIONER	-	NOTE 8
1109	ASSISTANT ADMIN.	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	ASST. ADMIN.	-	NOTE 8
1109A	ASSISTANT ADMIN.	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	09	-	-	NOTE 5,8
1110	CONFERENCE ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	CONFERENCE	-	NOTE 8
1110A	CONFERENCE ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	CONFERENCE	-	NOTE 8
1110B	CONFERENCE ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	09	-	-	NOTE 5 & 9
1111	COUNTY CLERK	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	COUNTY CLERK	-	NOTE 8
1112	COUNTY ADMINISTRATOR	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	01	ADMINISTRATOR	-	NOTE 8
1112A	COUNTY ADMINISTRATOR	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	09	-	-	NOTE 5 & 9
1113	COMM. MEETING ROOM	3'-0" x 7-0"	D	WD.	G-4	C	ALUM.	4 1/2"	G-4	1	2	-	12	-	-	-
1113B	COMM. MEETING ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	12	STAFF ONLY	-	-
1113C	COMM. MEETING ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	12	STAFF ONLY	-	-
1113D	COMM. MEETING ROOM	3'-0" x 7-0"	D	ALUM.	G-5	K	ALUM.	4 1/2"	G-5	-	-	-	06	-	-	-
1114	VIDEO/ MEDIA ROOM	3'-6" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	09	-	-	NOTE 5,8
1114A	VIDEO/ MEDIA ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	8 1/4"	-	3	4	-	01	-	-	NOTE 8
1115	CONF. RM/ LIBRARY	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	02	LIBRARY	-	-
1115A	CONF. RM./ LIBRARY	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	09	-	-	NOTE 5 & 9

DOOR SCHEDULE

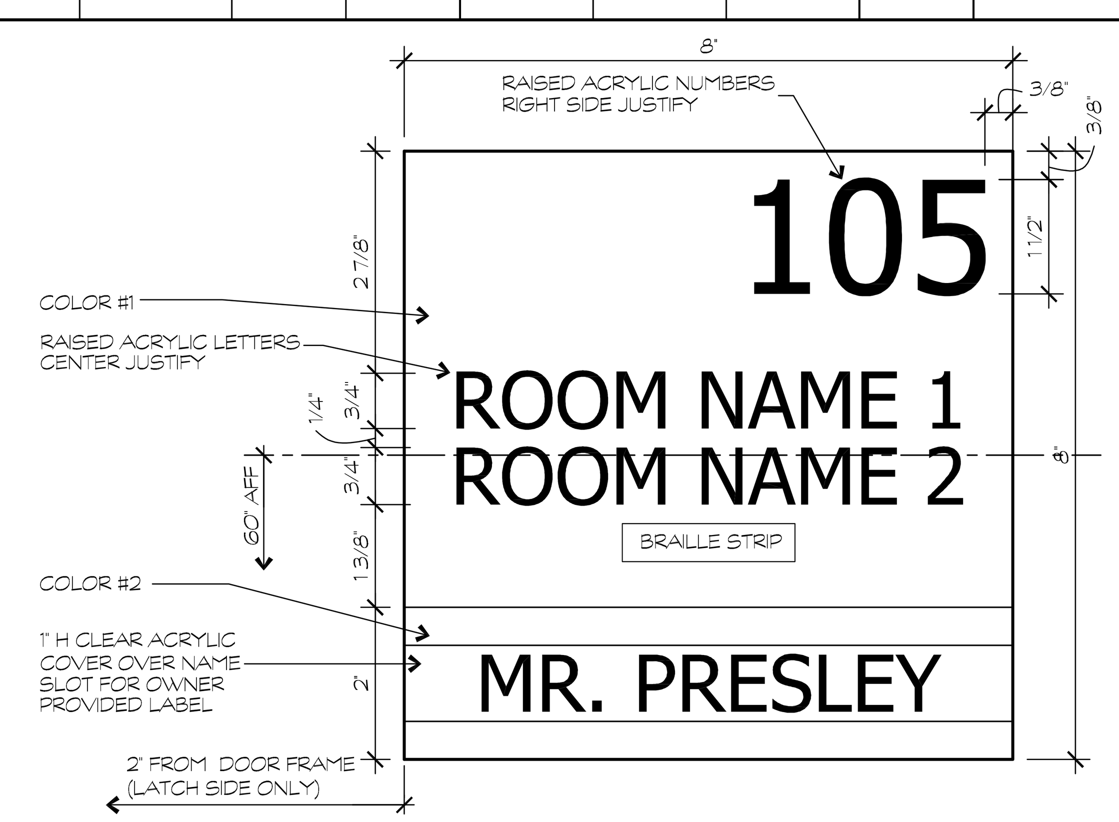
DOOR						FRAME				DETAILS SEE SHEET A2.3			HARD-WARE	SIGNAGE	LABEL	REMARKS
NO	ROOM LOCATION	SIZE	TYPE	MAT'L.	GLAZ	TYPE	MAT'L.	WIDTH	GLAZ	JAMB	HEAD	THRS				
1202	ASSISTANT ATTORNEY	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	ASST. ATTORNEY	-	-
1203	LEGAL ASSISTANT	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	LEGAL ASST.	-	-
1204	ASSISTANT ATTORNEY	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	ASST. ATTORNEY	-	-
1205	COUNTY ATTORNEY	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	ATTORNEY	-	-
1206	FILE ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	STAFF ONLY	-	-
1207	STORAGE	3'-0" x 7-0"	A	WD.		A1	H.M.	5 7/8"	-	3	4	11	02	STORAGE	-	-
1208	MEN	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	04	MEN	-	HC SYM.
1209	WOMEN	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	04	WOMEN	-	HC SYM.
1301	MAIL ROOM	3'-0" x 7-0"	C	ALUM.	G-4	E	ALUM.	4 1/2"	G-4	9	10	11	01	MAIL ROOM	-	-
1302	STORAGE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	-	-	-
1401	LOBBY	3'-0" x 7-0"	C	ALUM.	G-4	H	ALUM.	4 1/2"	G-1/G-4	9	10	11	02	BUSINESS DEVELOPMENT	-	-
1402	LOBBY	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	-	-	-
1402A	LOBBY	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3 SIM.	4 SIM.	-		-	-	NOTE 5
1403	OFFICE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	01	OFFICE	-	-
1404	OFFICE	3'-0" x 7-0"	A	WD.	-	A1	ALUM.	5 7/8"	-	1	2	11	01	OFFICE	-	RELOCATED FRAME
1407	STORAGE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	STORAGE	-	-
1408	CONFERENCE ROOM	3'-0" x 7-0"	D	WD.	G-4	D	ALUM.	(E)	(E)	1	2	-	02	CONFERENCE	-	RELOCATED FRAME
1408A	CONFERENCE ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	02	CONFERENCE	-	-
1501	HALL	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	-	02	-	-	-
1502	TELECOMM. ROOM	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	08	STAFF ONLY	-	-
1503	STORAGE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	STORAGE	-	-
1504	KITCHENETTE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	11	02	KITCHENETTE	-	-
1505	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1506	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1507	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1508	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1509	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1510	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1511	OFFICE	3'-0" x 7-0"	B	WD.	G-4	A1	H.M.	5 7/8"	-	3	4	-	01	OFFICE	-	-
1512	MEN	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	5	6	-	04	MEN	-	HC SYM.
1513	WOMEN	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	5	6	-	04	WOMEN	-	HC SYM.
1514	STORAGE	3'-0" x 7-0"	A	WD.	-	A1	H.M.	5 7/8"	-	3	4	11	02	-	-	-
1515	HALL	3'-0" x 7-0"	A	WD.	-	A2	H.M.	5 7/8"	-	3	4	11	08	-	-	NOTE 6

DOOR SCHEDULE LEGEND

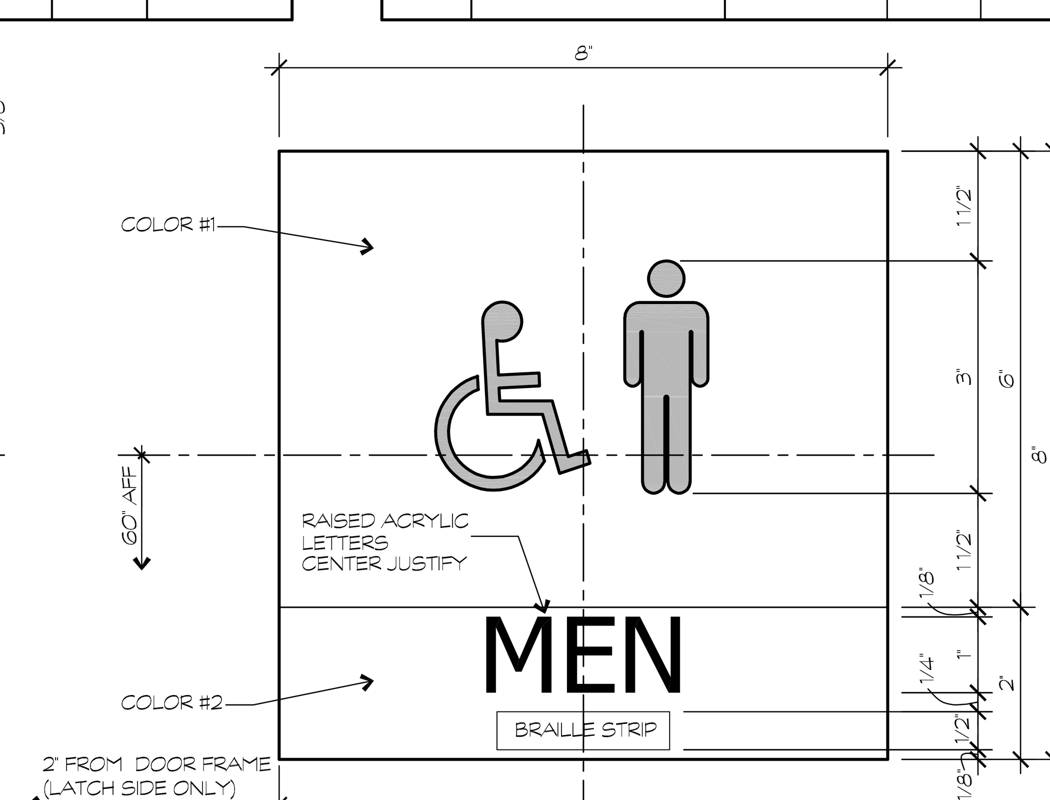
GLAZING	NOTES
G-1 - 1/4" FLOAT GLASS, CLEAR	NOTE 1 - COORDINATE AUTO OPERATOR. LOCATE PUSH BUTTON AS SHOWN ON PLANS
G-2 - 1/4" LAMINATED SAFETY GLASS, CLEAR	NOTE 2 - REMOVABLE MULLION
G-3 - 1/4" WIRED GLASS, CLEAR	NOTE 3 - INSULATED & GALVANIZED
G-4 - 1/4" SAFETY GLASS, CLEAR	NOTE 4 - THERMALLY BROKEN
G-5 - SAFETY GLASS, TINTED	NOTE 5 - CARD READER
G-6 - 1" INSULATED GLASS, TINTED	NOTE 6 - RELOCATE/ RE-INSTALL (E) CARD READER
G-7 - 1" TEMPERED INSULATED GLASS, TINTED	NOTE 7 - PROVIDE UNDER ADD ALTERNATE ONLY
G-8 - 1" TEMP. SAFETY GLASS w/ INTEGRAL BLINDS	NOTE 8 - PROVIDE SURFACE APPLIED ACOUSTICAL SEALS AT DOOR FRAME
	NOTE 9 - HIDDEN DOOR- REFER TO DRAWING A6.6



ELEV. DET. @ TYP. DOOR SIGN 3 A2.2
6" = 1'-0"



ELEV. DET. @ TYP. ROOM SIGN 2 A2.2
6" = 1'-0"



ELEV. DET. @ TYP. TOILET SIGN 1 A2.2
6" = 1'-0"
6" = 1'-0" SCALE INCHES

REVISIONS
1 8/28/14 ADDENDUM #3
2 5/28/15 RFP# 029
3 9/17/15 RFP# 037
4 5/30/18 AS-BUILT

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

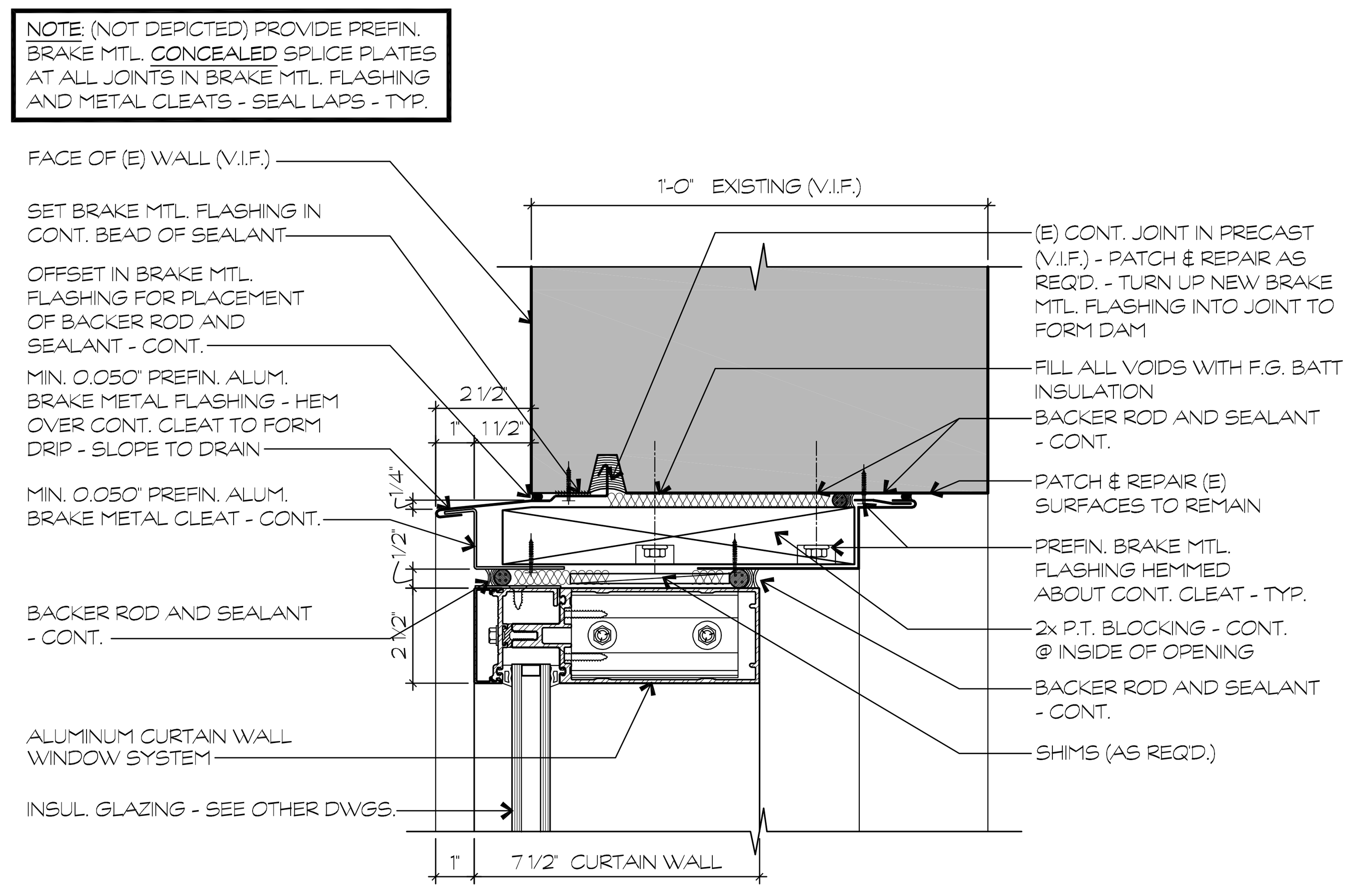
DOOR SCHEDULE

A2.2

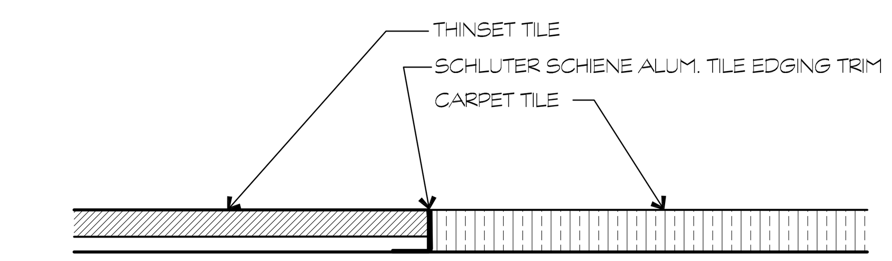
OF SHEETS

DATE : 12.06.16

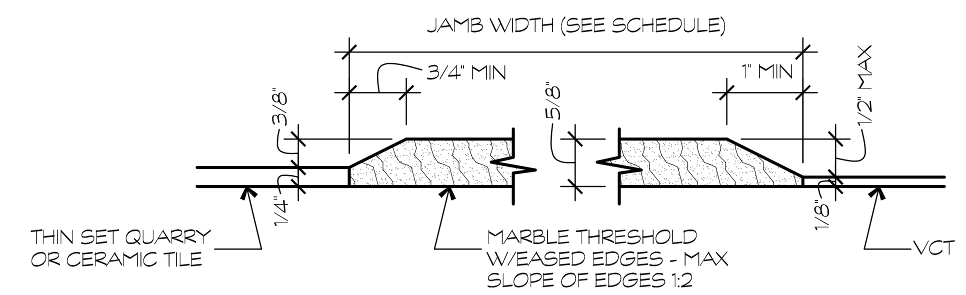
XREFS: TITLEBL_PLAN



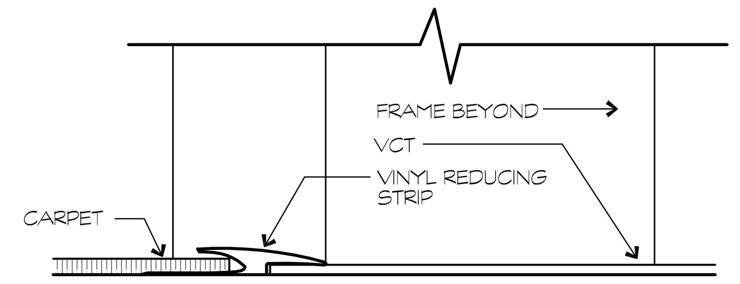
CURTAINWALL HEAD DETAIL
15 A2.3
3" = 1'-0"



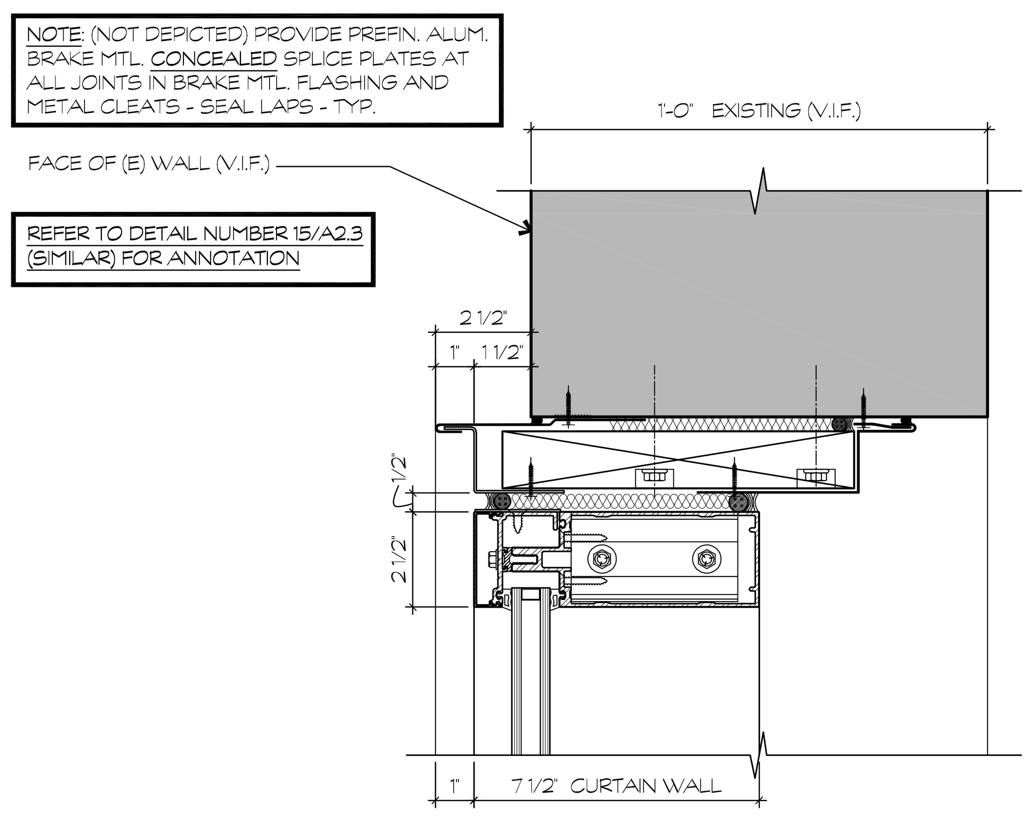
TRANSITION DETAIL @ THINSET TILE/ CARPET TILE
12A A2.3
NO SCALE



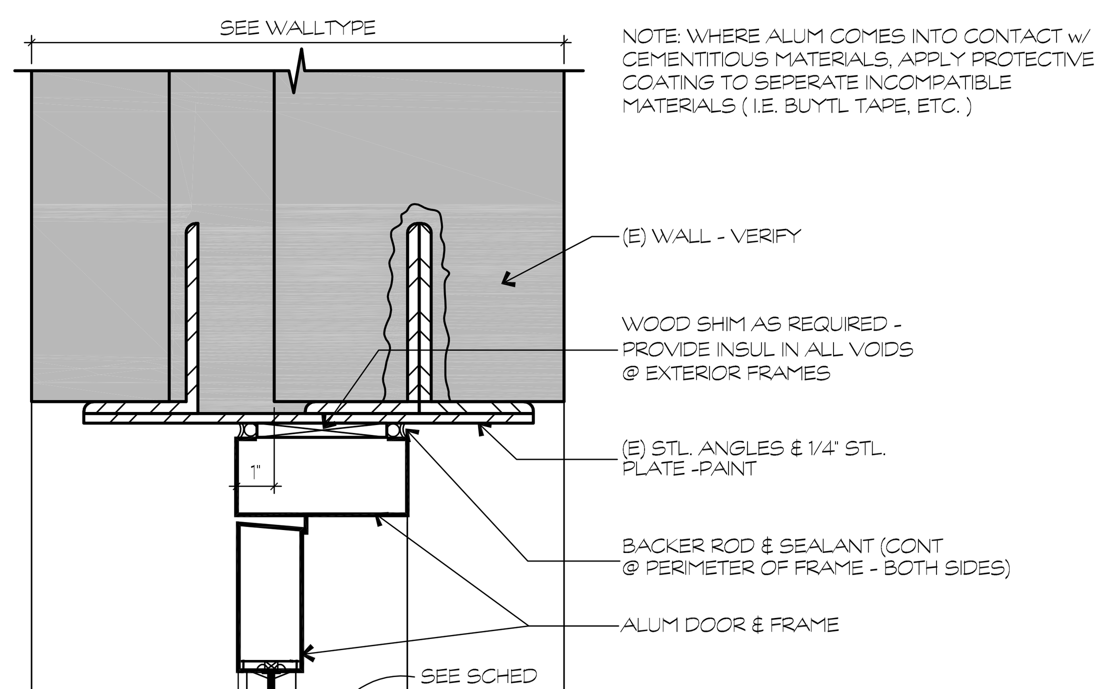
THRESHOLD DETAIL @ THINSET TILE + VCT
12 A2.3
NO SCALE



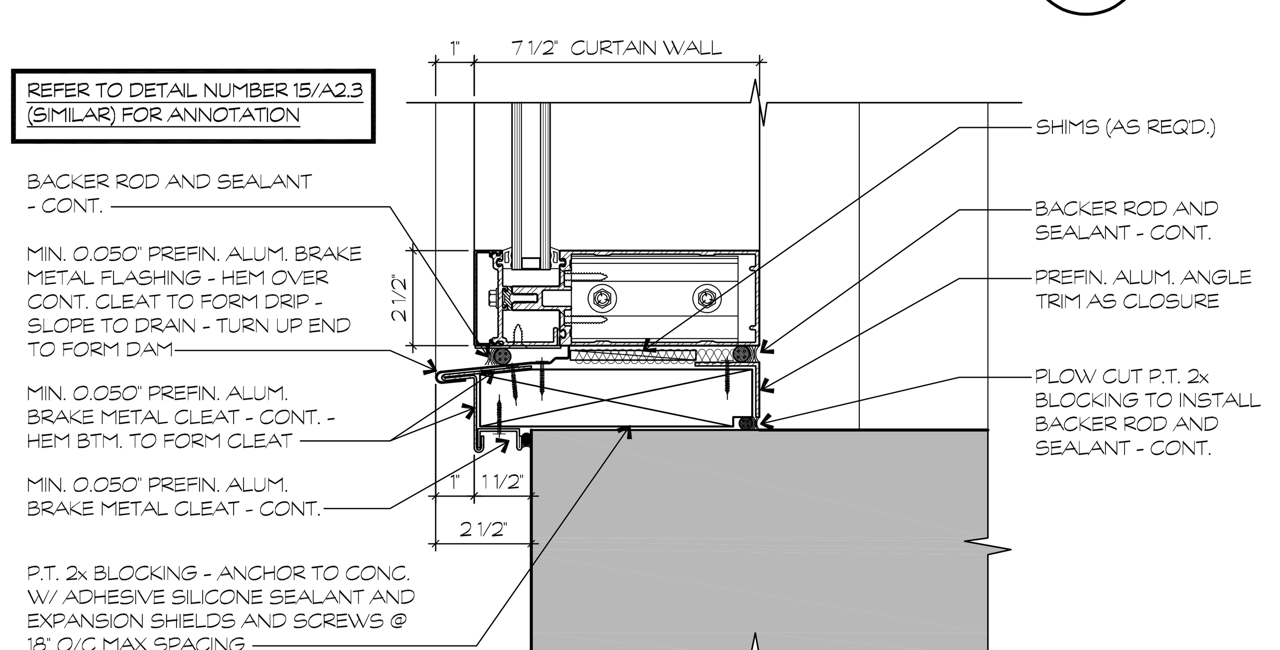
THRESHOLD DETAIL @ CARPET/ VCT
11 A2.3
NO SCALE



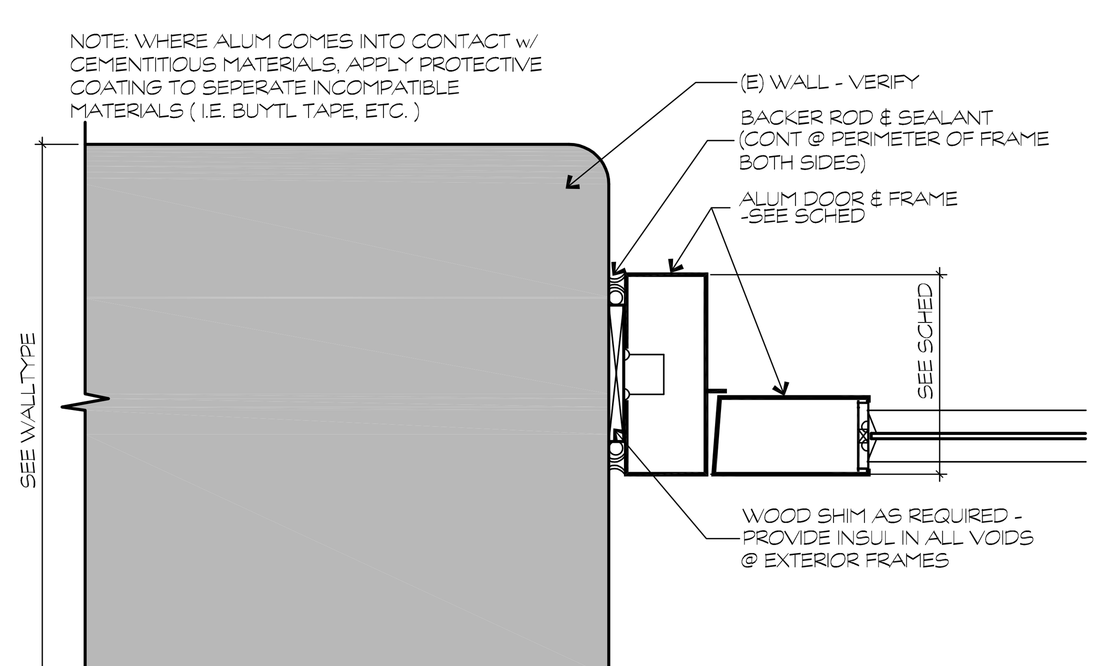
CURTAINWALL JAMB DETAIL
14 A2.3
3" = 1'-0"



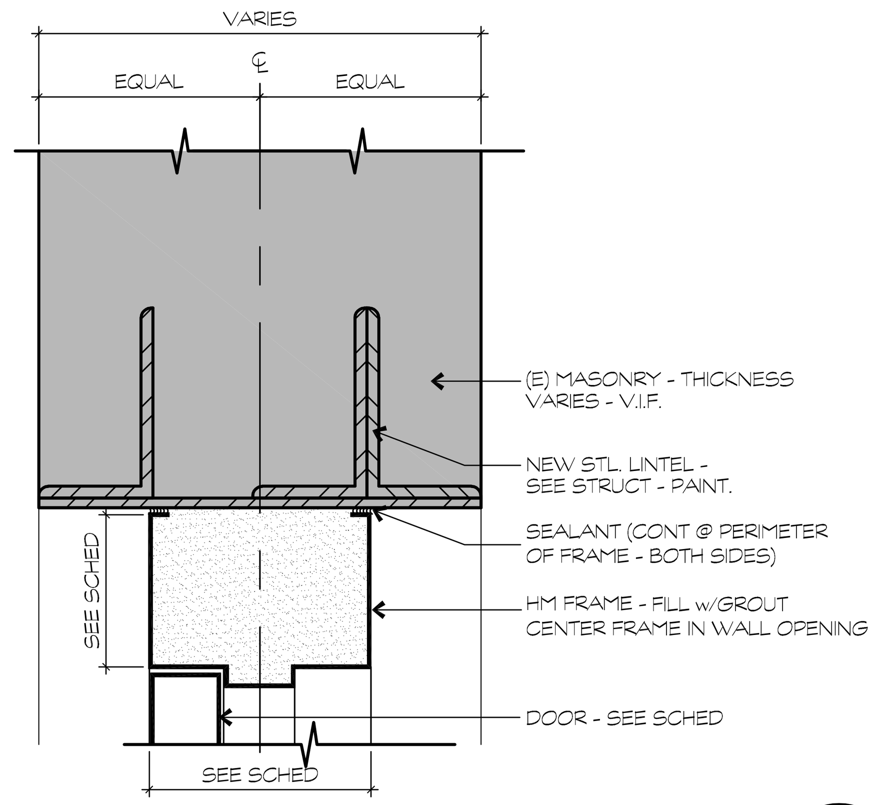
ALUM HEAD DTL. @ (E) EXTERIOR MASONRY OPNG.
10 A2.3
3" = 1'-0"



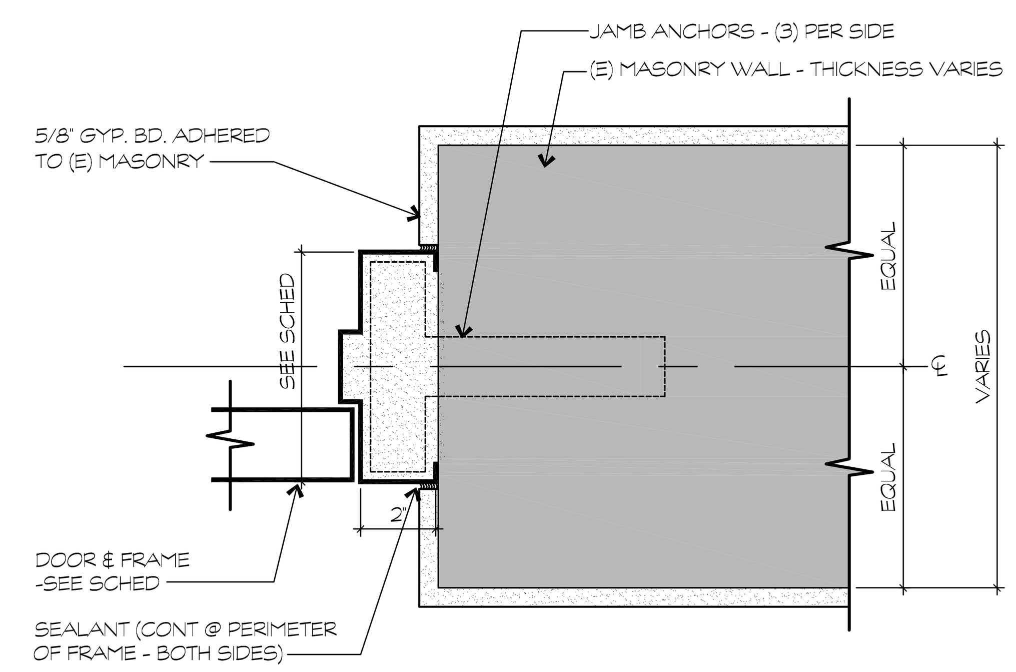
CURTAINWALL SILL DETAIL
13 A2.3
3" = 1'-0"



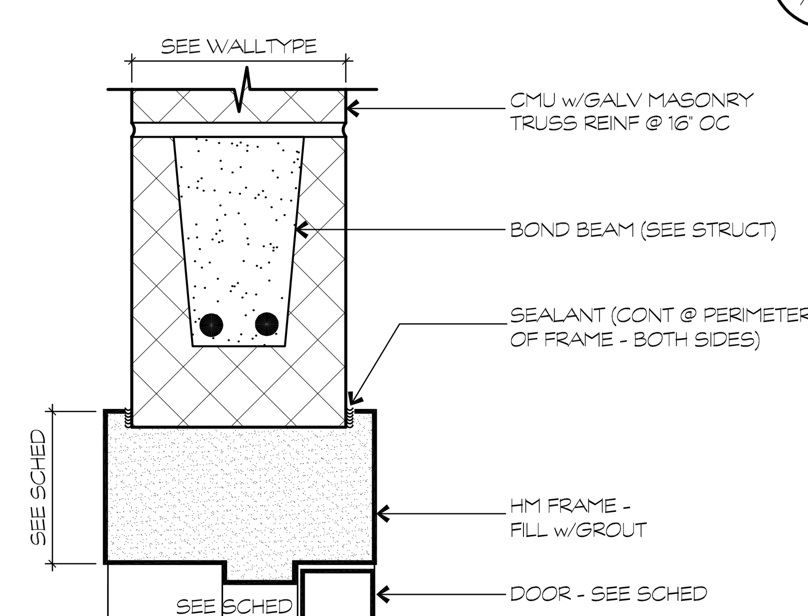
ALUM JAMB DTL. @ (E) EXTERIOR MASONRY OPNG
9 A2.3
3" = 1'-0"



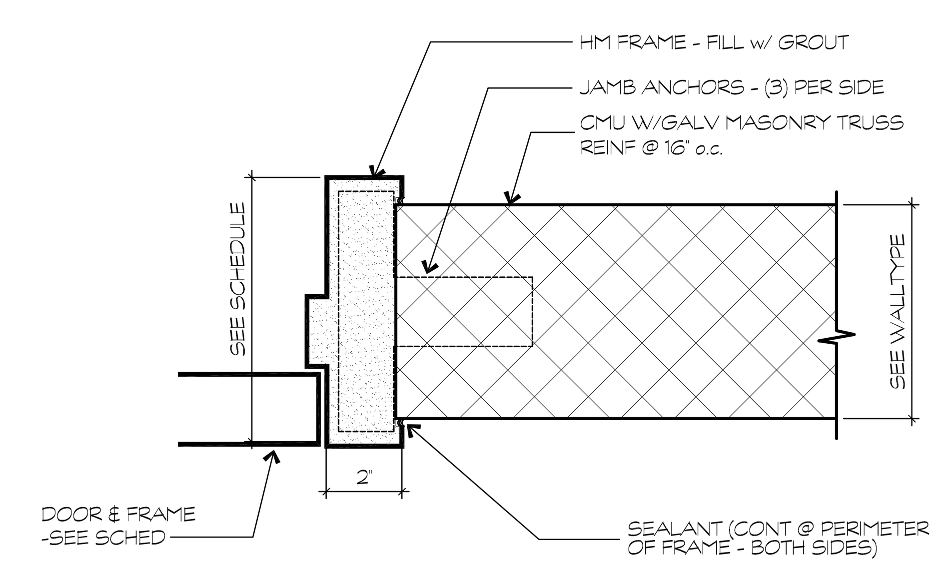
HM HEAD DETAIL @ INTERIOR WALL
8 A2.3
3" = 1'-0"



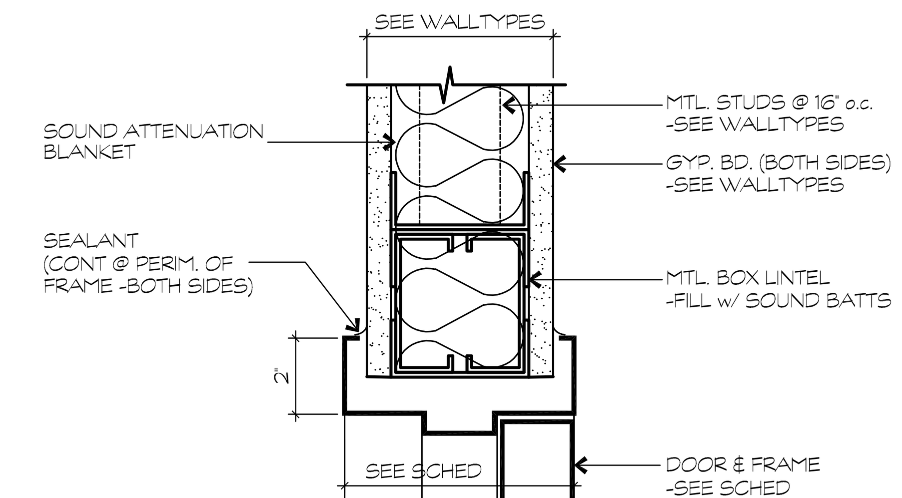
HM JAMB DETAIL @ INTERIOR WALL
7 A2.3
3" = 1'-0"



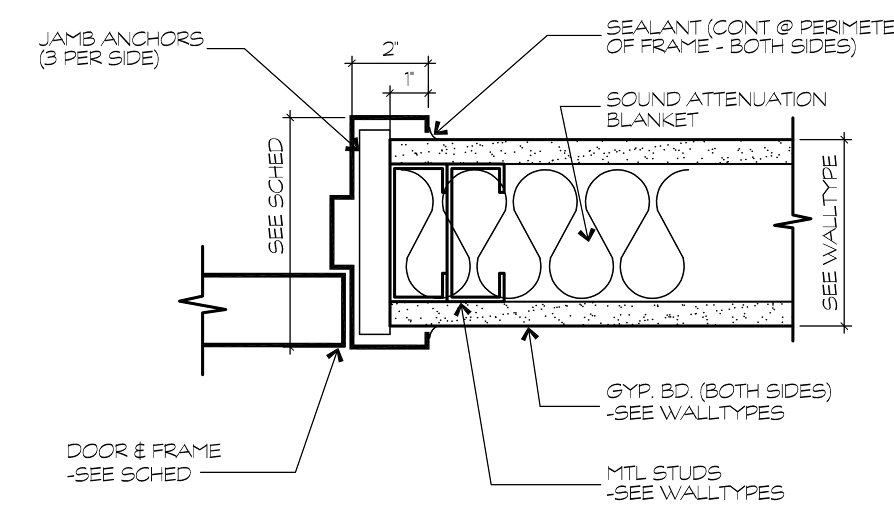
HM HEAD DETAIL @ INTERIOR WALL
6 A2.3
3" = 1'-0"



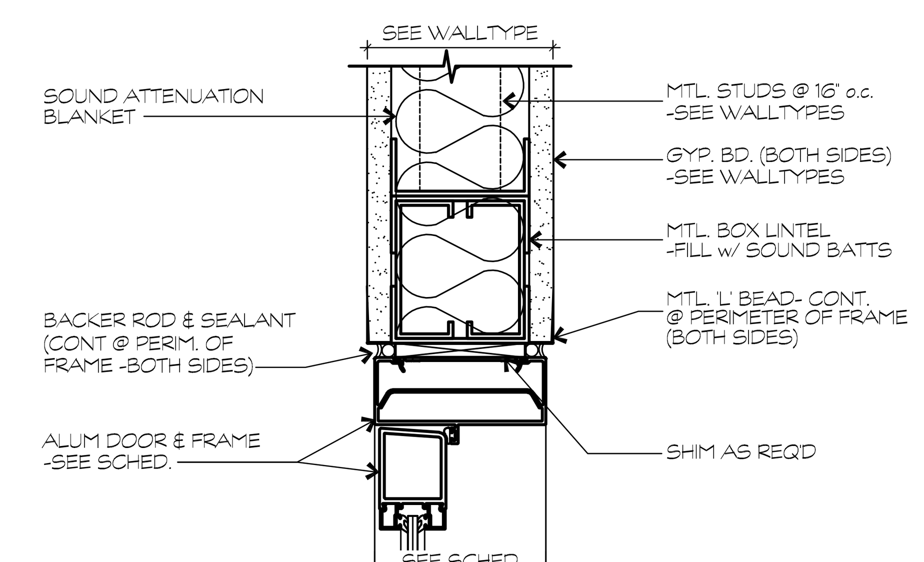
HM JAMB DETAIL @ INTERIOR WALL
5 A2.3
3" = 1'-0"



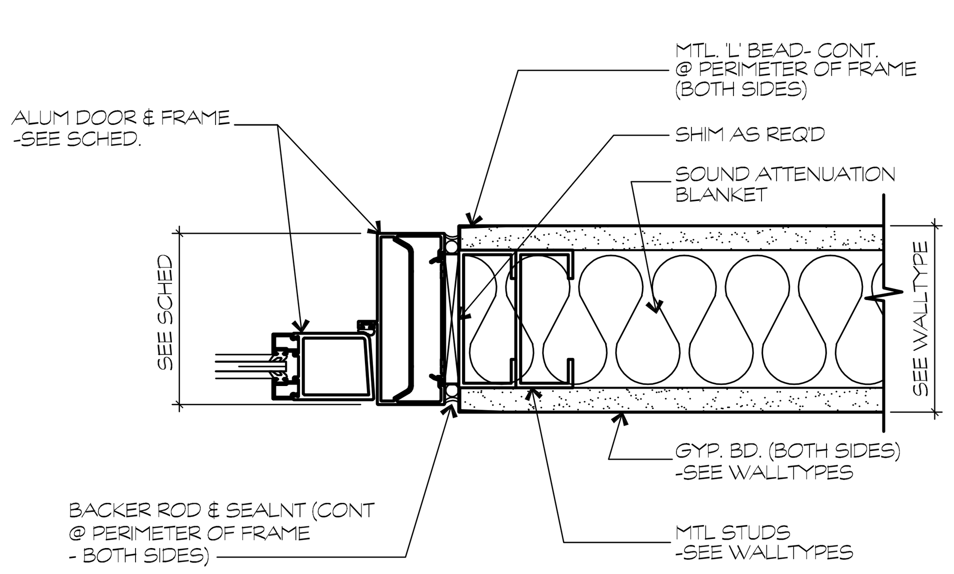
HM HEAD DETAIL @ INTERIOR GYP. BD. WALL
4 A2.3
3" = 1'-0"



HM JAMB DETAIL @ INTERIOR WALL
3 A2.3
3" = 1'-0"



ALUM HEAD DETAIL @ INTERIOR WALL
2 A2.3
3" = 1'-0"



ALUM JAMB DETAIL @ INTERIOR WALL
1 A2.3
3" = 1'-0"
3" = 1'-0" SCALE FEET

REVISIONS

1 04.08.15 RFI #042
2 05.30.18 AS-BUILT

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

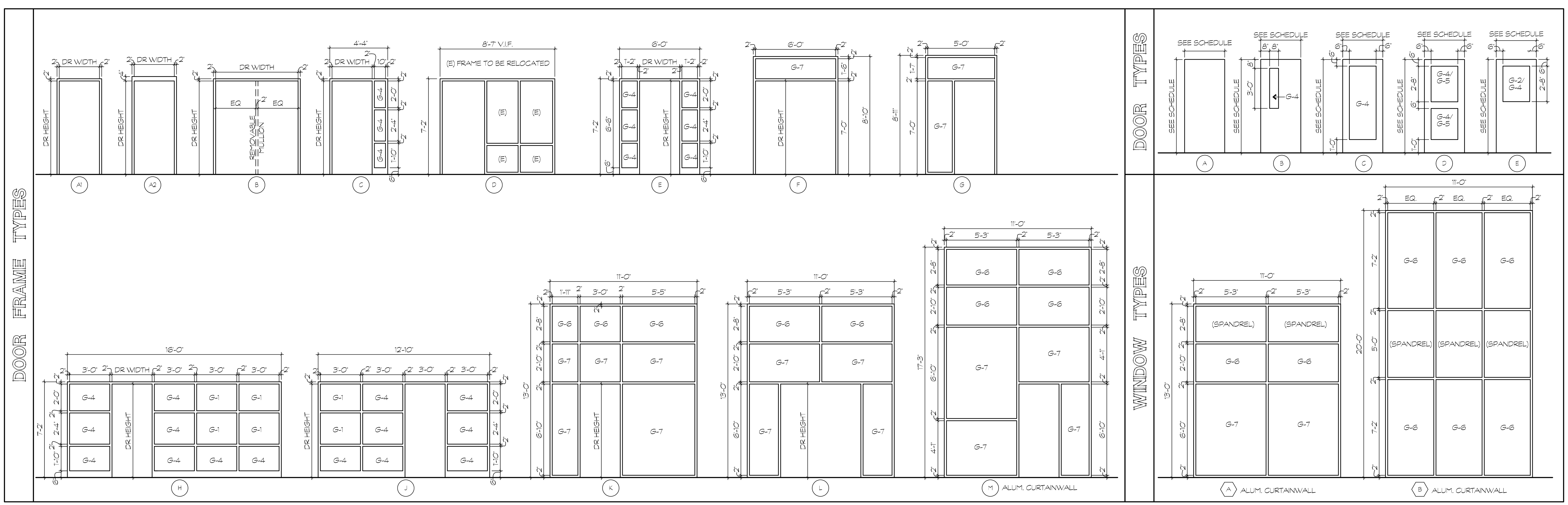
DOOR & WINDOW DETAILS

A2.3

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL, PLNB



REVISIONS

1. 09.02.14 ADDENDUM #3
2. 5/30/16 AS-BUILT

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CONFORMED SET

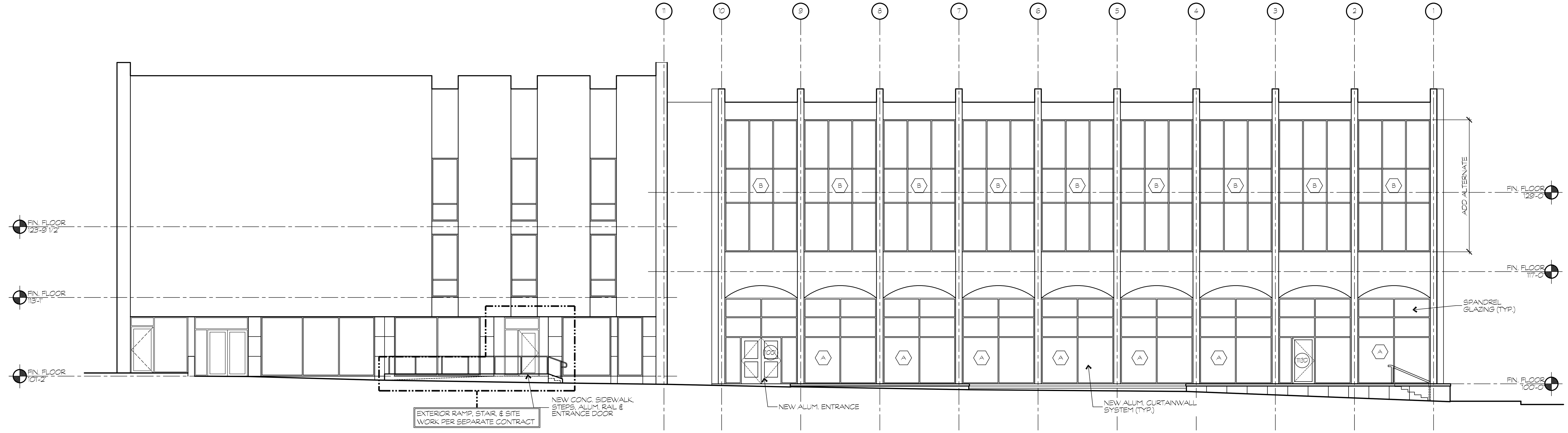
DOOR TYPES & FRAME ELEVS

A2.4

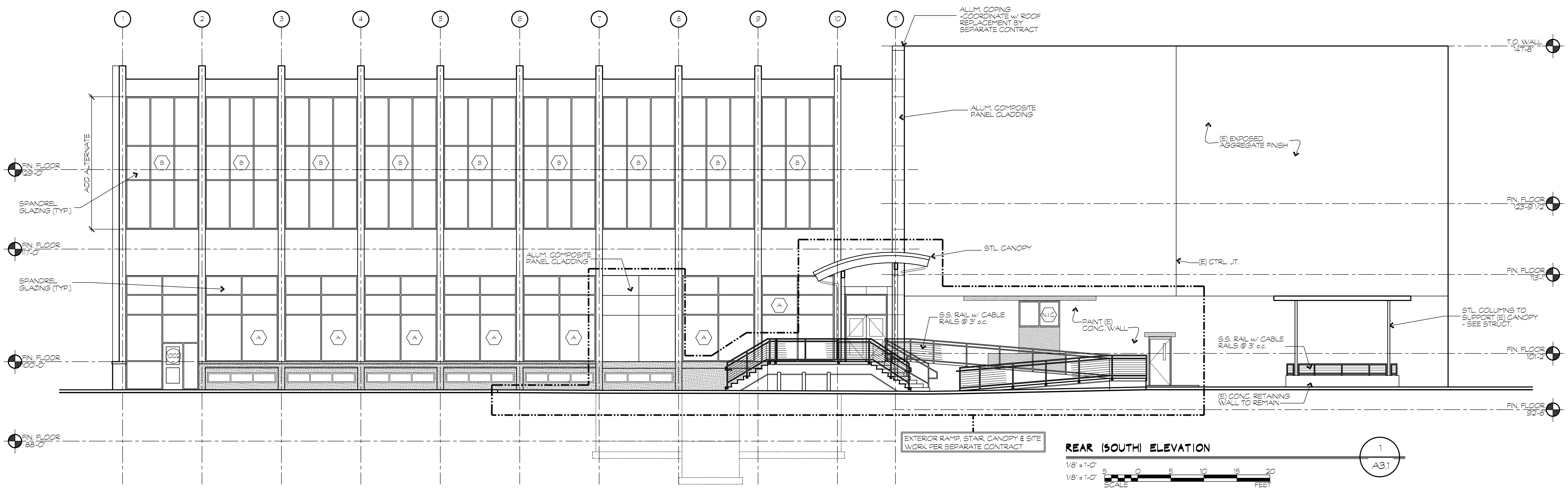
OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; PLNB



FRONT (NORTH) ELEVATION
1/8" = 1'-0"
2
A3.1



REAR (SOUTH) ELEVATION
1/8" = 1'-0"
1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET
1
A3.1

REVISIONS

5/30/16 AS-BUILT

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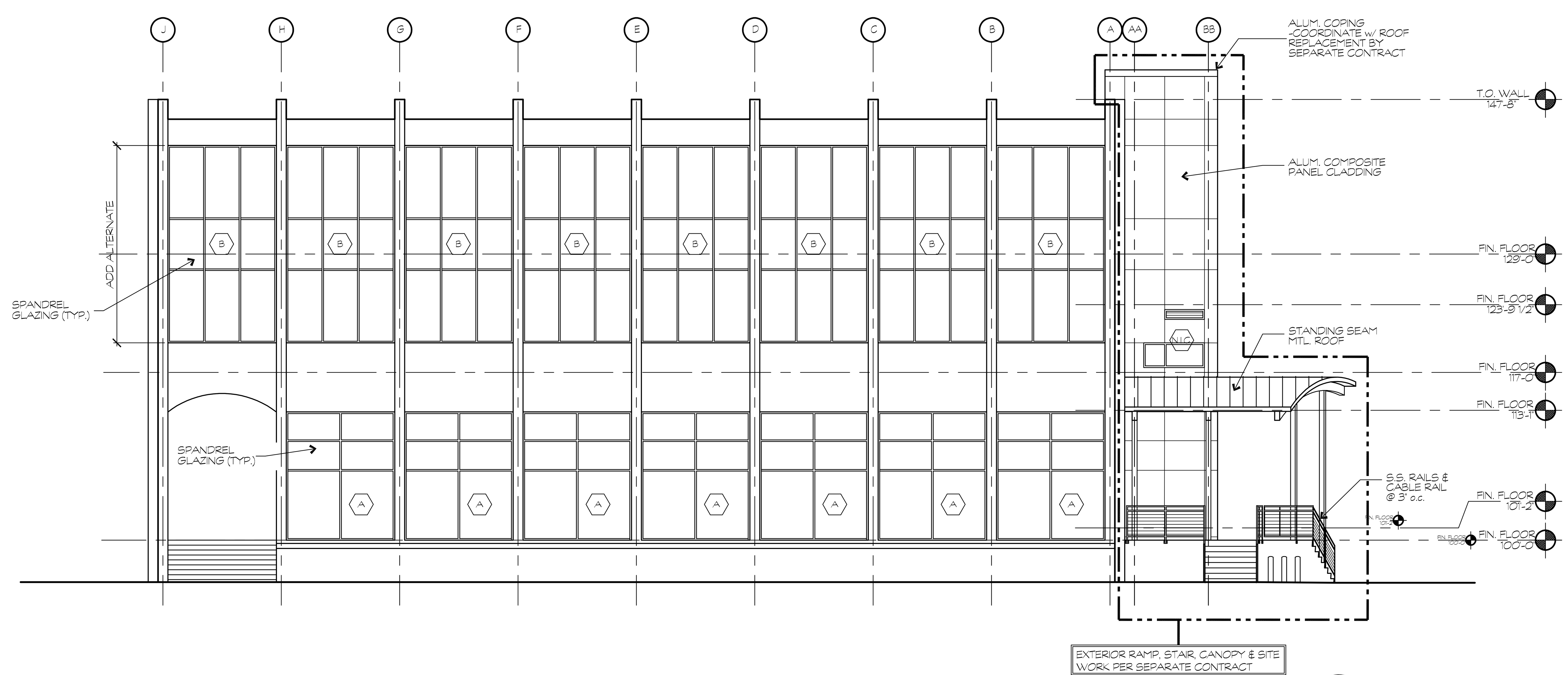
XREFS: TITLEBL; ELEV

BUILDING ELEVATIONS

A3.1

OF SHEETS

DATE : 12.06.16



EAST ELEVATION 1/A3.2

1/8" = 1'-0"

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

REVISIONS

5/30/16 AS-BUILT

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BUILDING ELEVATIONS

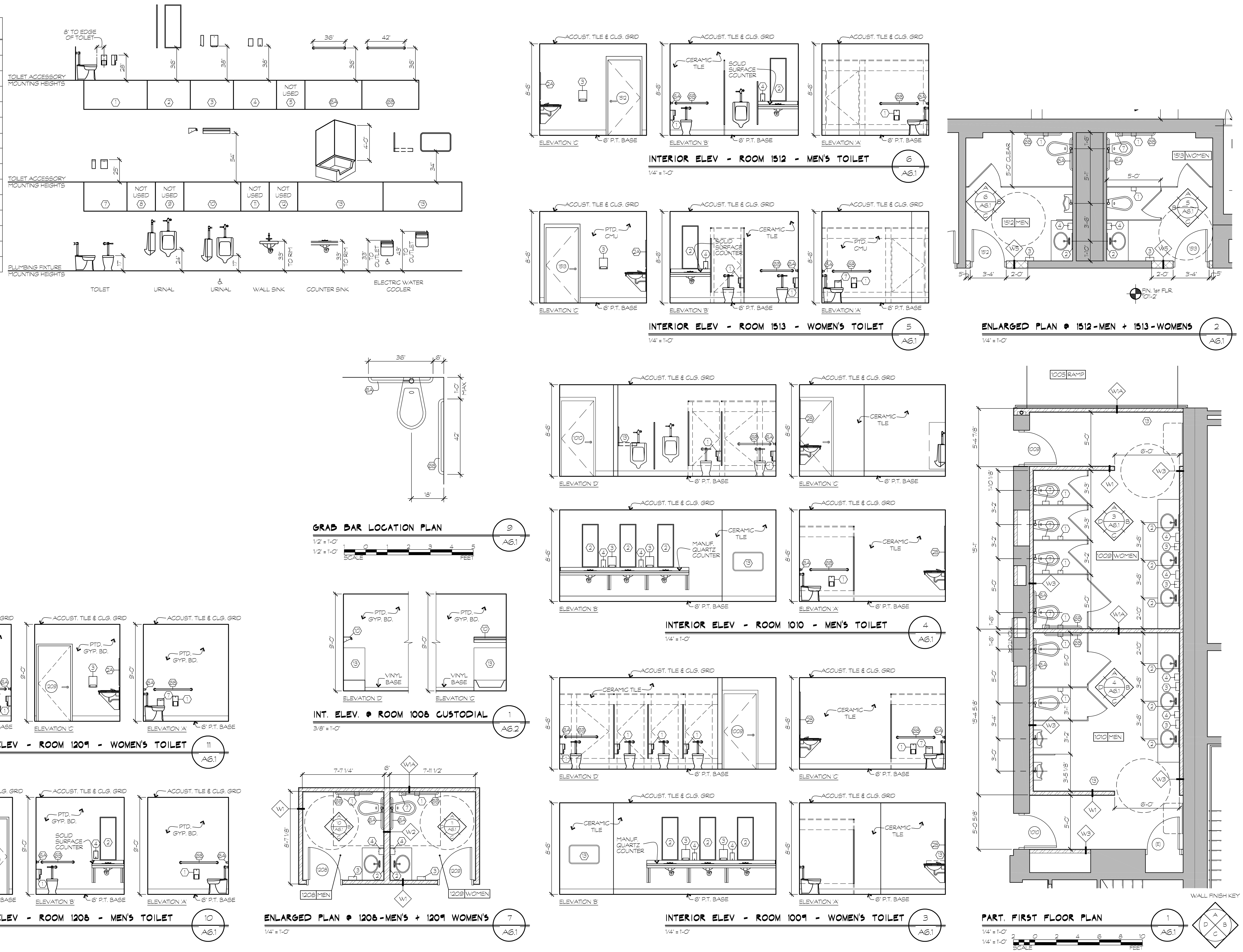
A3.2

OF SHEETS

DATE : 12.06.16

XREFS: TITLEBL; ELEV

TOILET ACCESSORY LEGEND (SEE SPECIFICATIONS)	
1	TOILET PAPER DISPENSER
2	MIRROR (18" x 48")
3	PAPER TOWEL DISPENSER
4	SOAP DISPENSER
5	NOT USED
6A	36" GRAB BAR (TOILET)
6B	42" GRAB BAR (TOILET)
7	SANITARY NAPKIN DISPOSAL
8	NOT USED
9	NOT USED
10	MOP RACK w/ SHELF
11	NOT USED
12	NOT USED
13	FRP PANEL 48" HIGH x WIDTH OF FIXTURE
14	BABY CHANGING STATION



REVISIONS

1 9/3/14 ADDENDUM #4

2 5/30/18 AS-BUILT

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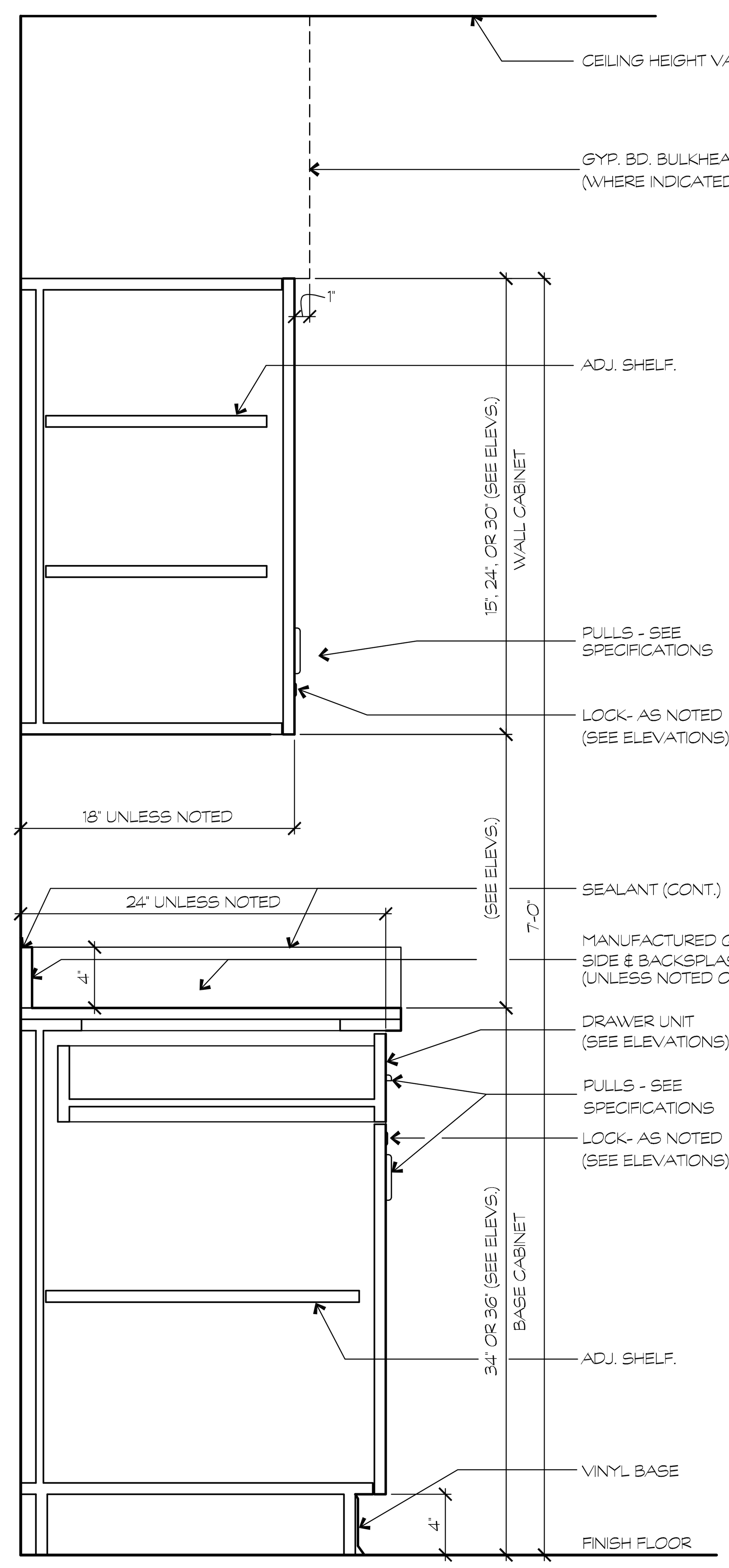
PART. PLANS & INTERIOR ELEVS.

A6.1

OF SHEETS

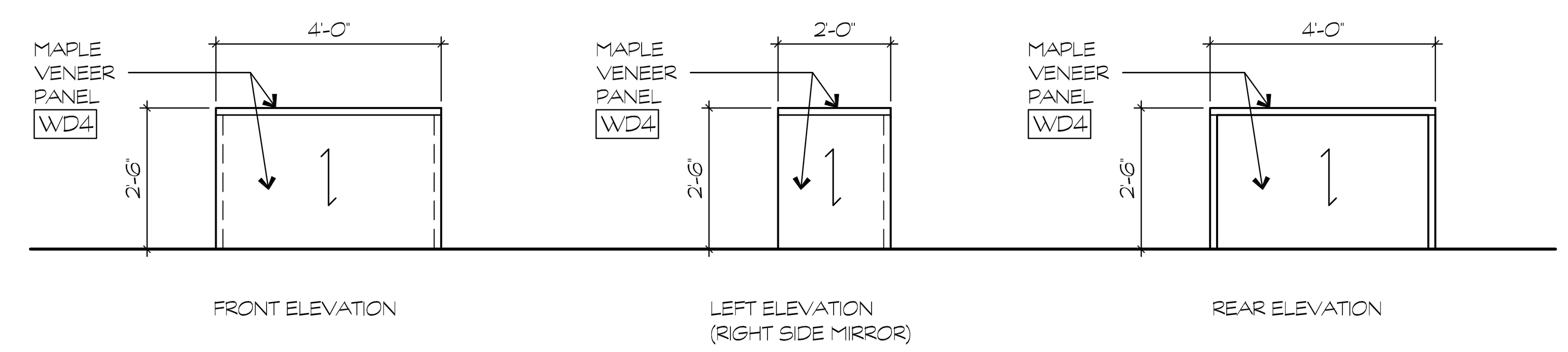
DATE: 12.06.16



REFER TO SECTION 11660

TYPICAL CASEWORK SECTION (8 / A6.2)

1 1/2" = 1'-0"



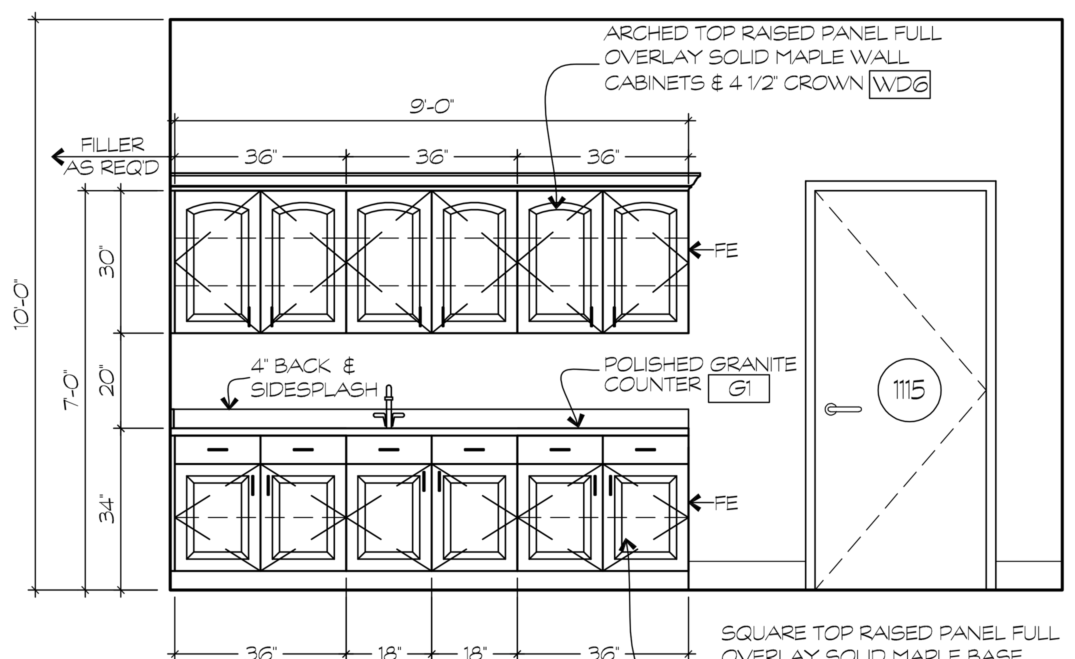
CASEWORK ELEVATIONS @ MEDIA DESK (9 / A6.2)

3/8" = 1'-0"

SYMBOL	ITEM	DIMENSIONS W x H x D	STEVENS MODEL # LH HINGE	STEVENS MODEL # RH HINGE	REMARKS
BD3030	30" H. BASE CAB.	30" x 30" x 24"	10432		
B2734	34" H. BASE CAB.	27" x 34" x 24"	10129		
BCS3634	34" H. BASE COMBO CAB.	36" x 34" x 24"	10765		
2D1836	36" H. DRAWER BASE	18" x 36" x 24"	10317		
BD2436	36" H. BASE CAB.	24" x 36" x 24"	10422	10421	
BD3636	36" H. BASE CAB.	36" x 36" x 24"	10432		
W3015	15" H. WALL CAB.	30" x 15" x 18"	16129		
W3624	24" H. WALL CAB.	36" x 24" x 18"	16129		
WC3030	30" H. 'L' SHAPED WALL CAB.	30" x 30" x 18"	15215		
W1530	30" H. WALL CAB.	15" x 30" x 18"	16121	16120	
W2130	30" H. WALL CAB.	21" x 30" x 18"	16121	16120	
W2430	30" H. WALL CAB.	24" x 30" x 18"	16121	16120	
W2730	30" H. WALL CAB.	27" x 30" x 18"	16129		
W3630	30" H. WALL CAB.	36" x 30" x 18"	16129		
W3930	30" H. WALL CAB.	39" x 30" x 18"	16129		
W4230	30" H. WALL CAB.	42" x 30" x 18"	16129		

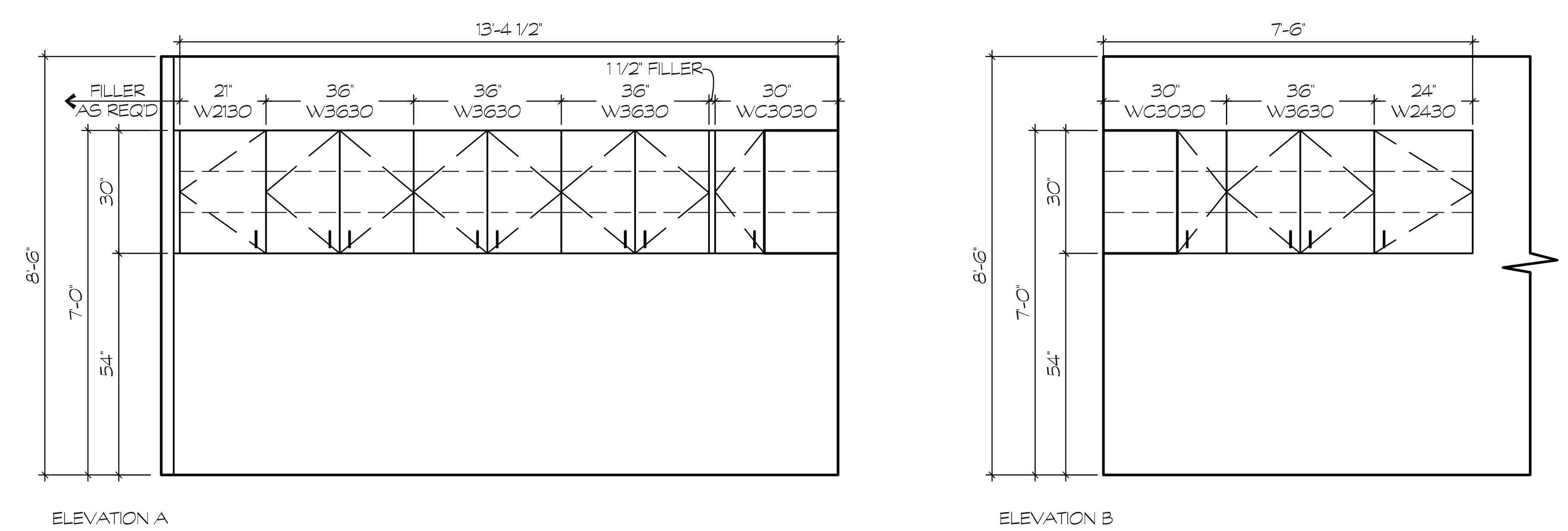
CASEWORK SCHEDULE - BASE CABINETS

REFERENCE SPEC. SECTION 11660



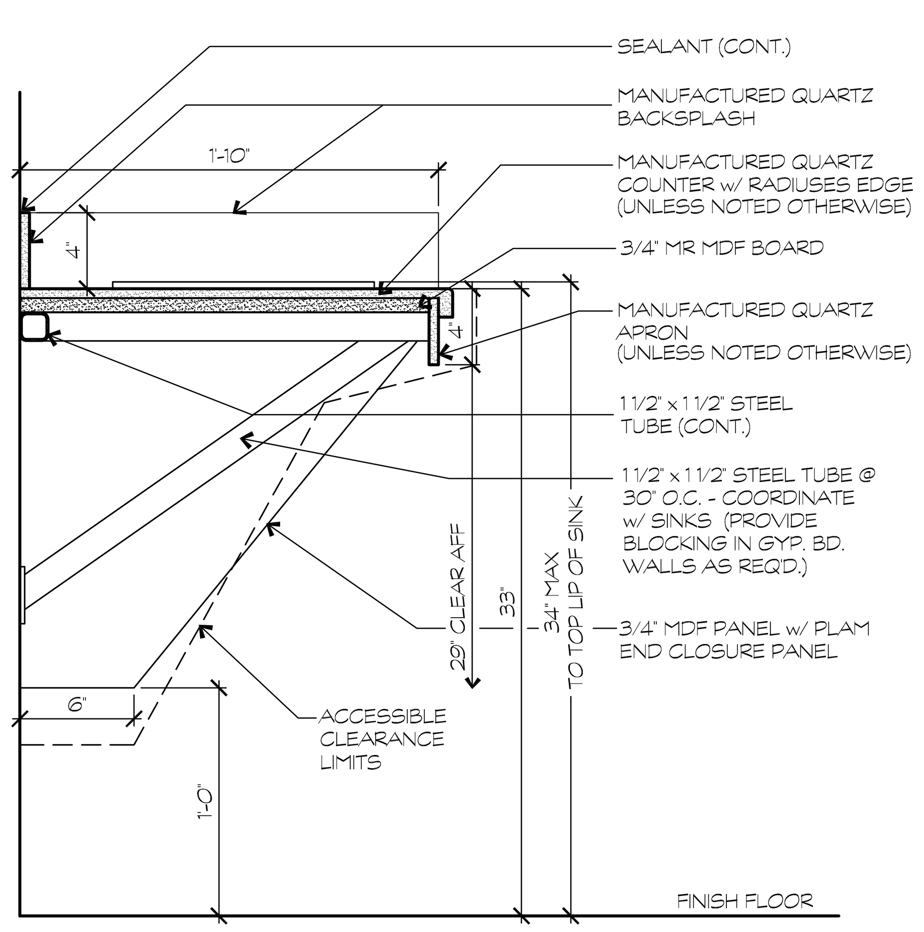
ROOM 1115 - CONF. RM. + LIBRARY (5 / A6.2)

3/8" = 1'-0"



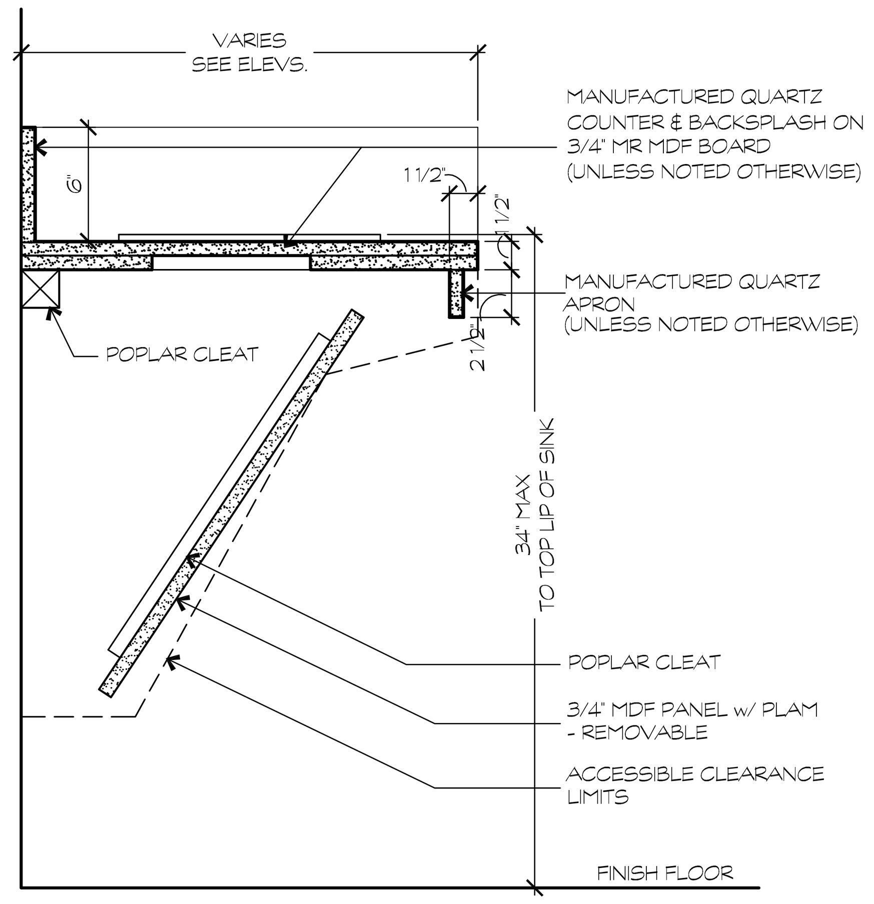
ROOM 1301 - MAIL ROOM (4 / A6.2)

3/8" = 1'-0"



TYP. SECTION @ TOILET ROOM COUNTER (7 / A6.2)

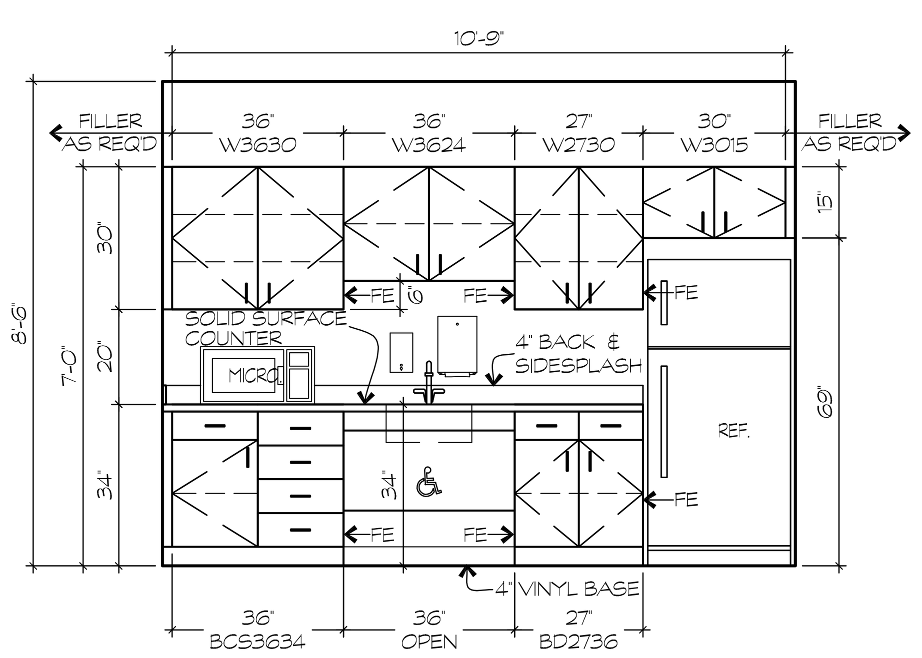
1 1/2" = 1'-0"



TYP. SECTION @ H.C. ACCESSIBLE SINK (6 / A6.2)

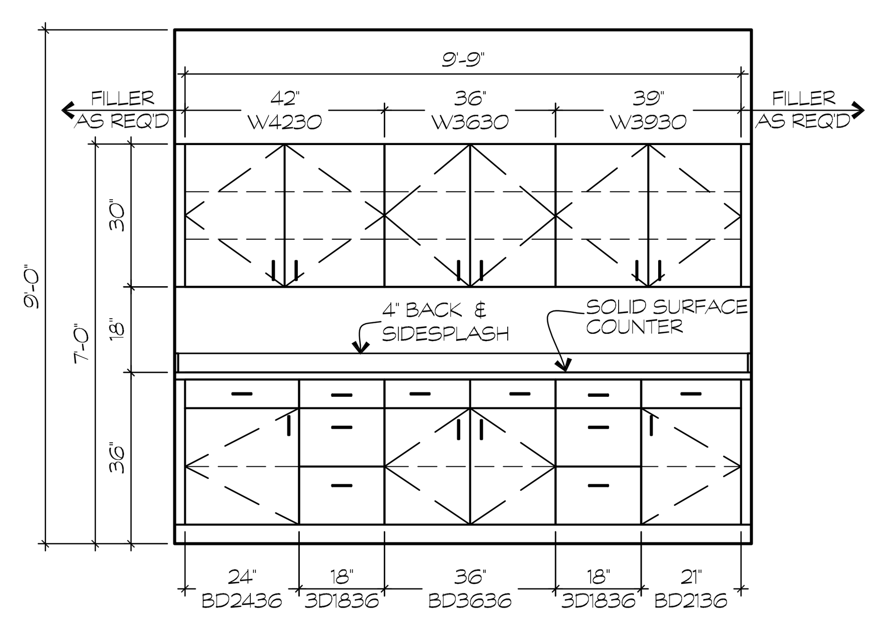
1 1/2" = 1'-0"

1 1/2" = 1'-0" SCALE 0 FEET



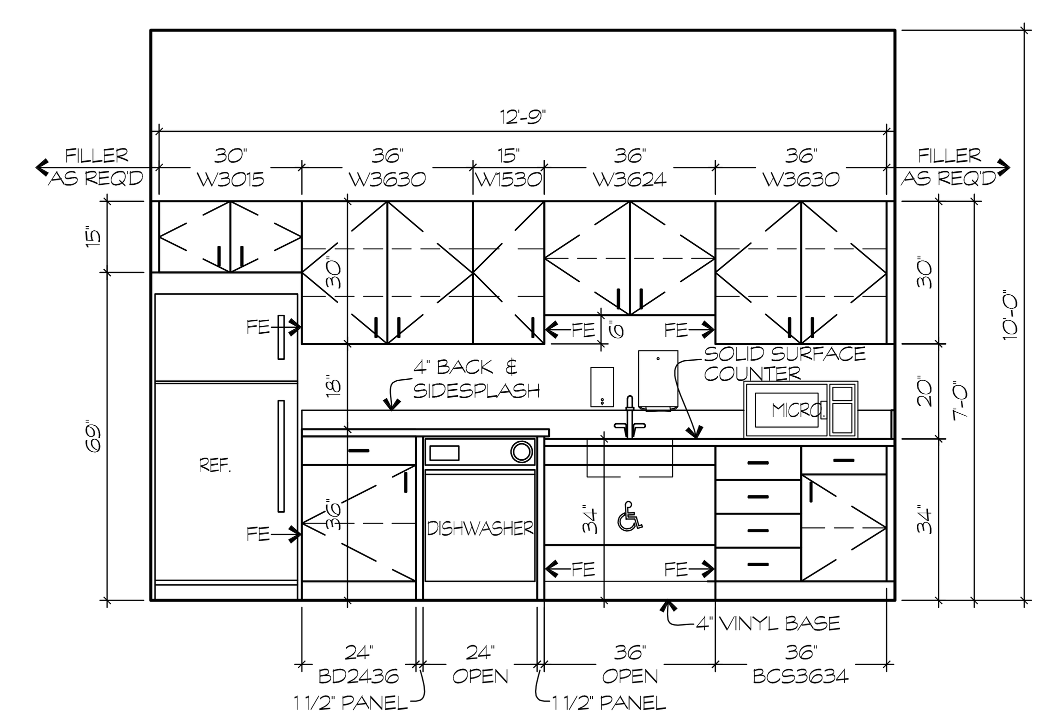
ROOM 1504 - KITCHENETTE (3 / A6.2)

3/8" = 1'-0"



ROOM 1103 - COPIER ROOM (2 / A6.2)

3/8" = 1'-0"



ROOM 1004 - LUNCH ROOM (1 / A6.2)

3/8" = 1'-0"

3/8" = 1'-0" SCALE 0 1 2 3 4 5 6 7 FEET

REVISIONS

1. 9/3/14 ADDENDUM #4
2. 5/25/16 RFP #046 CONF. RM. CASEWORK
3. 8/3/16 RFP #063 MEDIA DESK
4. 5/30/18 AS-BUILT

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LICENSE No. 8278

EXPIRATION DATE 09.02.14

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

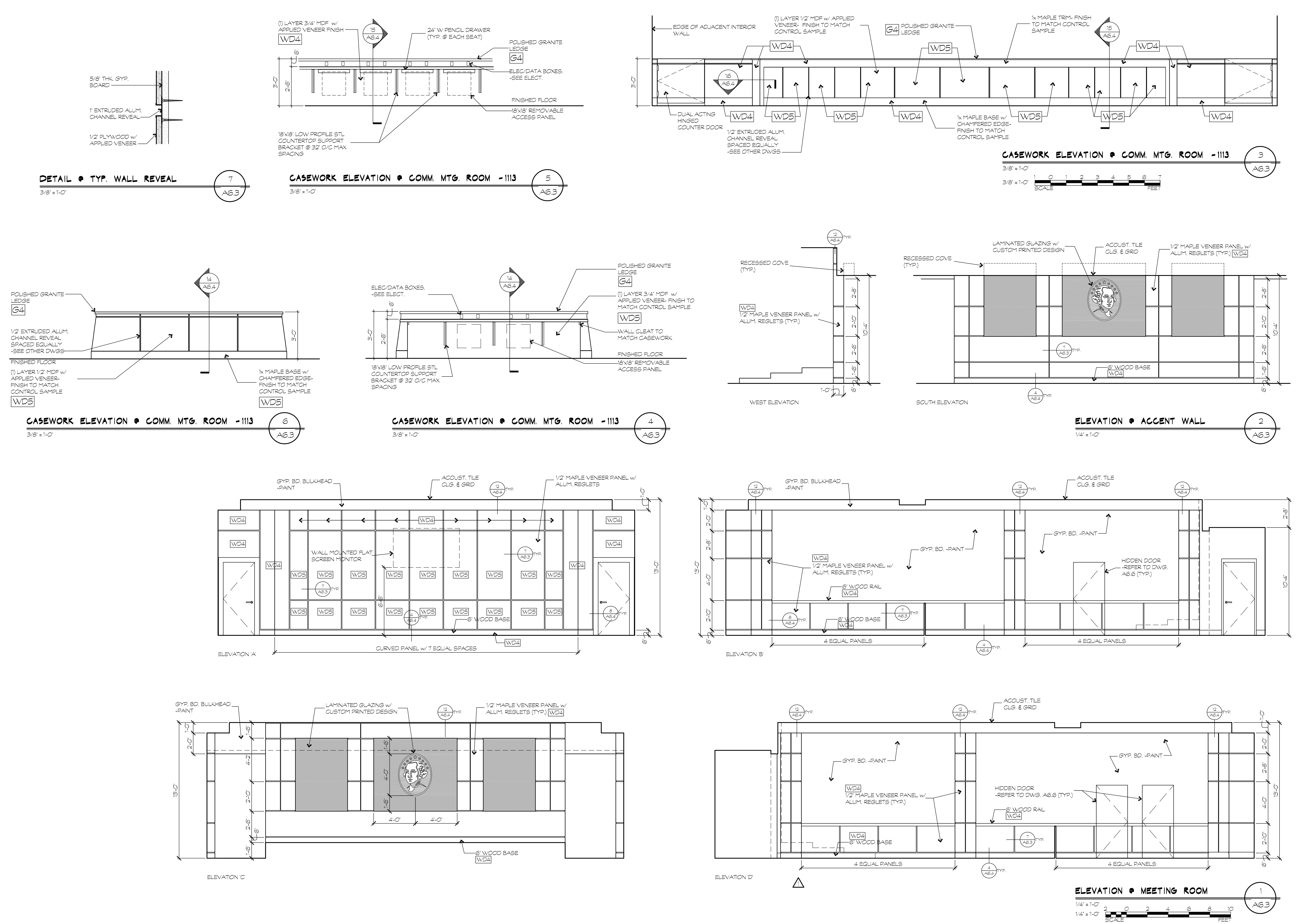
CASEWORK ELEVS & DETAILS

A6.2

OF SHEETS

DATE : 12.06.16

XREFS: ATTLEBL_PLN1



REVISIONS

1. 3/11/15 RFP #037
2. 11/2/15 ASI #003
3. 4/15/16 RFP #051 HIDDEN DOOR LOCATION
4. 5/25/16 RFP #050 COMM. RM. CASEWORK

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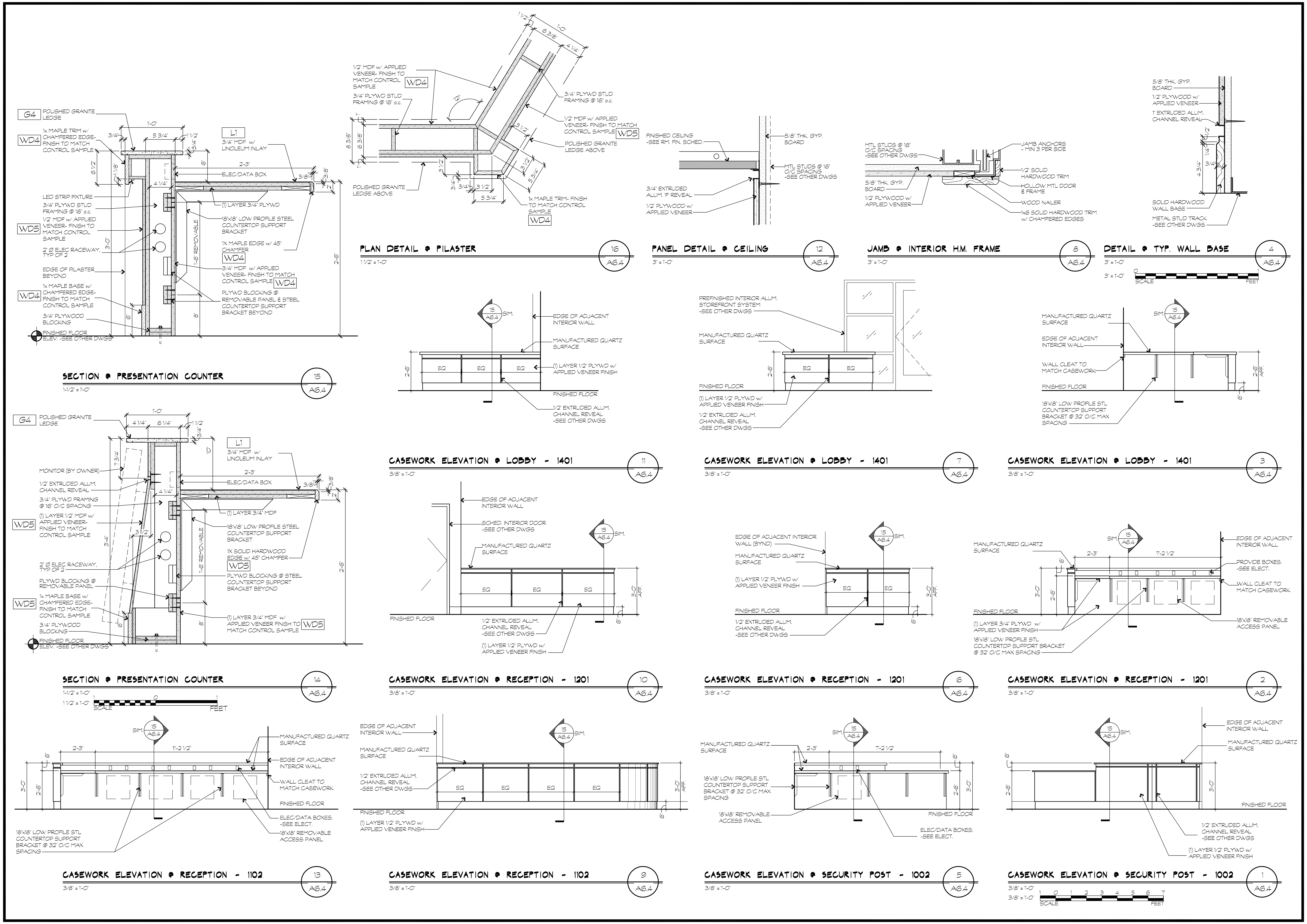
CONFORMED SET

INTERIOR ELEVATIONS

A6.3

OF SHEETS

DATE : 12.06.16



REVISIONS

1 5/25/16 RFP #050
2 5/30/18 AS-BUILT

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS

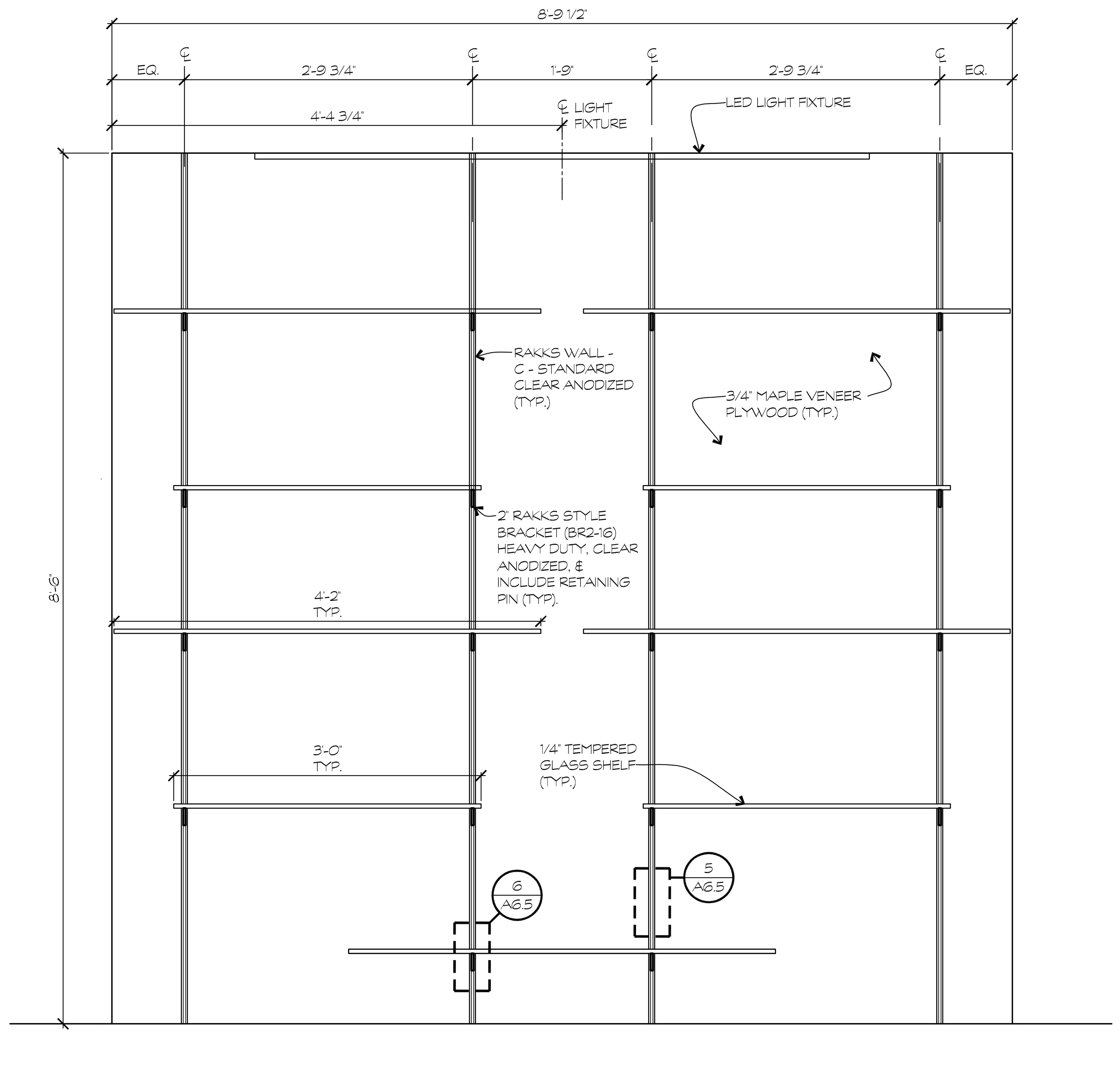
CONFORMED SET

INTERIOR ELEVATIONS

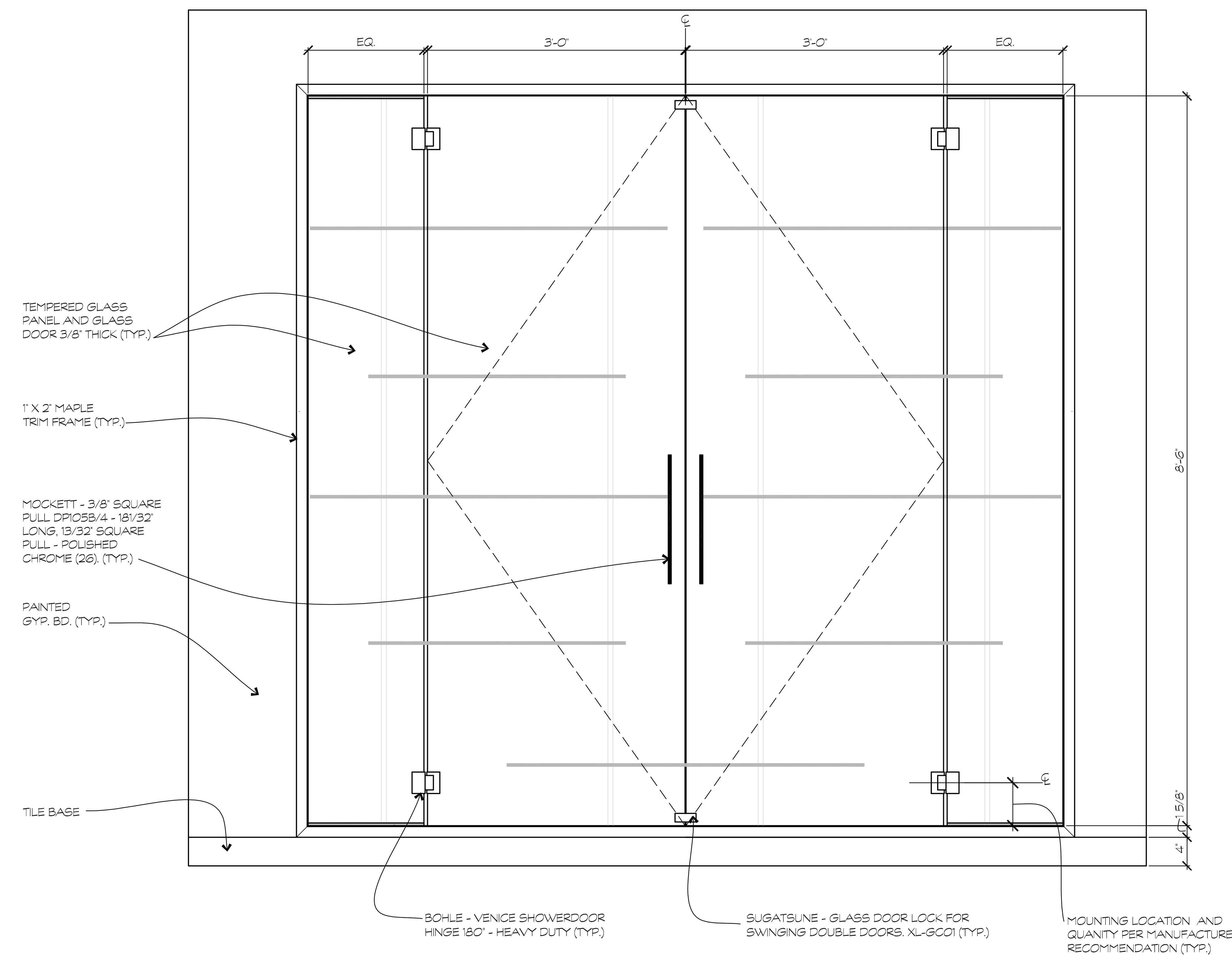
A6.4

OF SHEETS

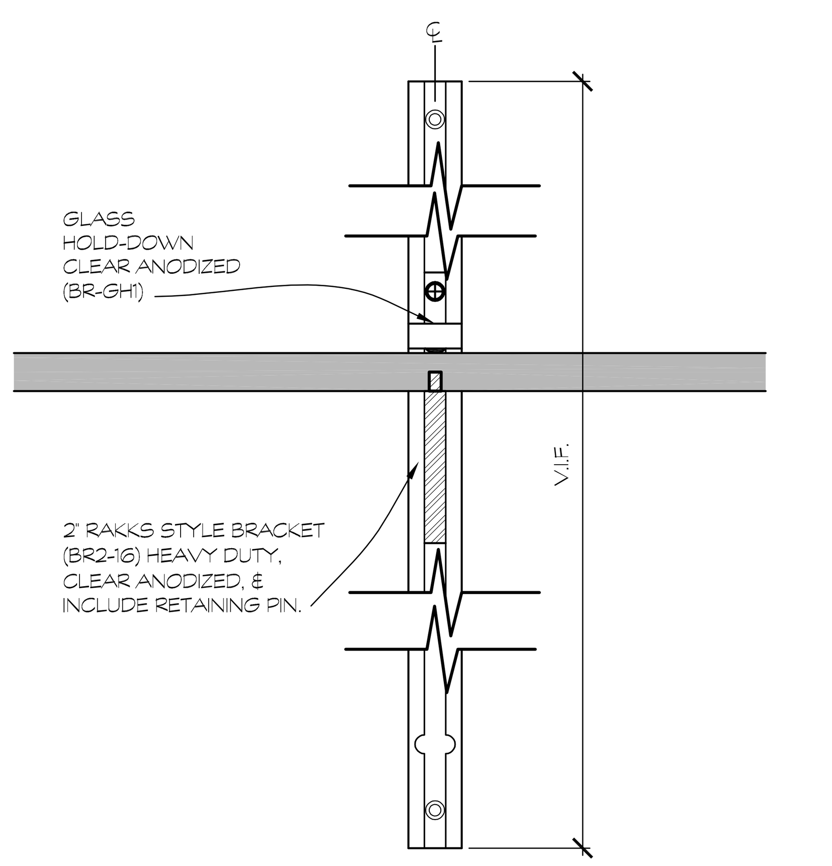
DATE : 12.06.16



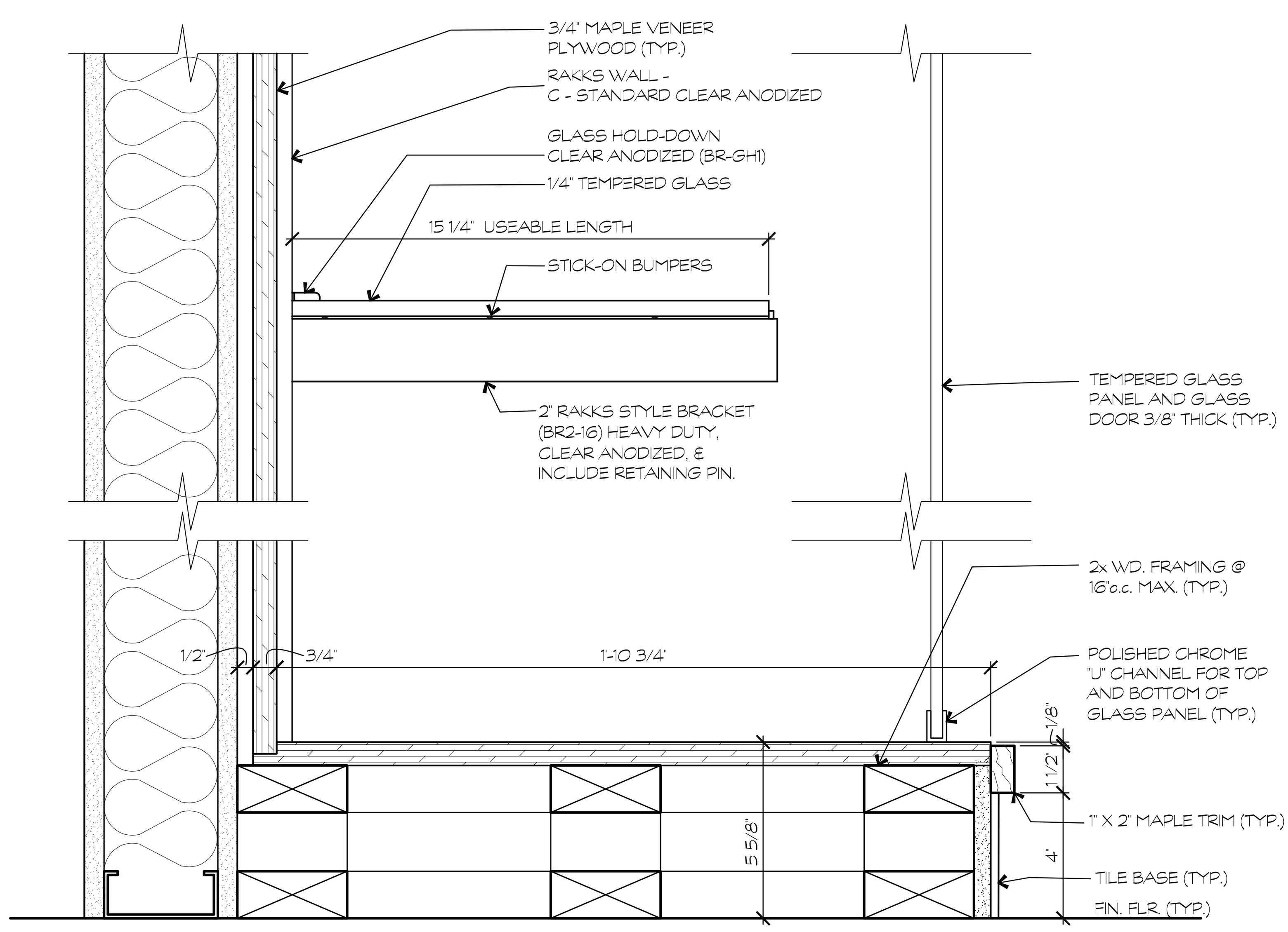
ELEVATION @ DISPLAY CASE — 4 / A6.5
1" = 1'-0"

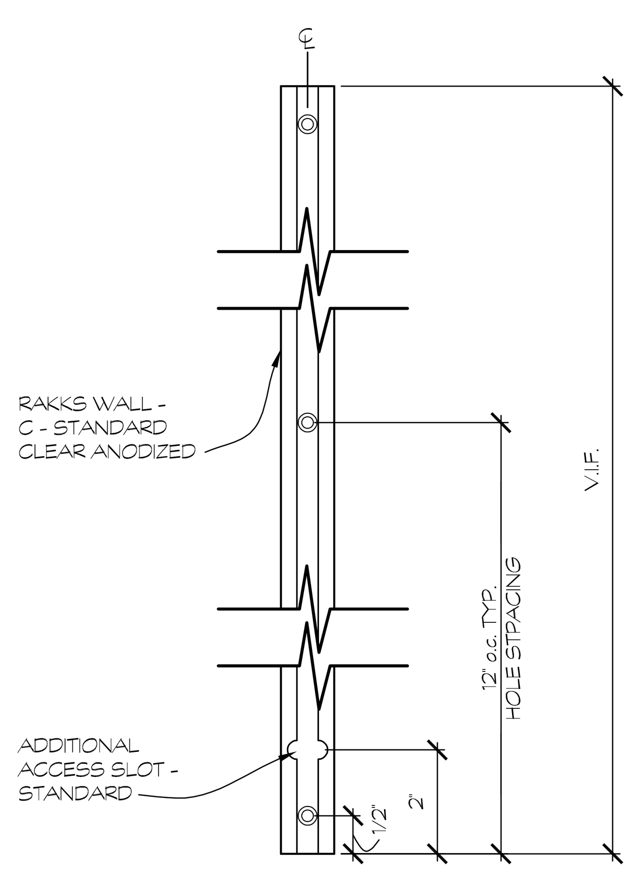


ELEVATION @ DISPLAY CASE — 2 / A6.5
1" = 1'-0"



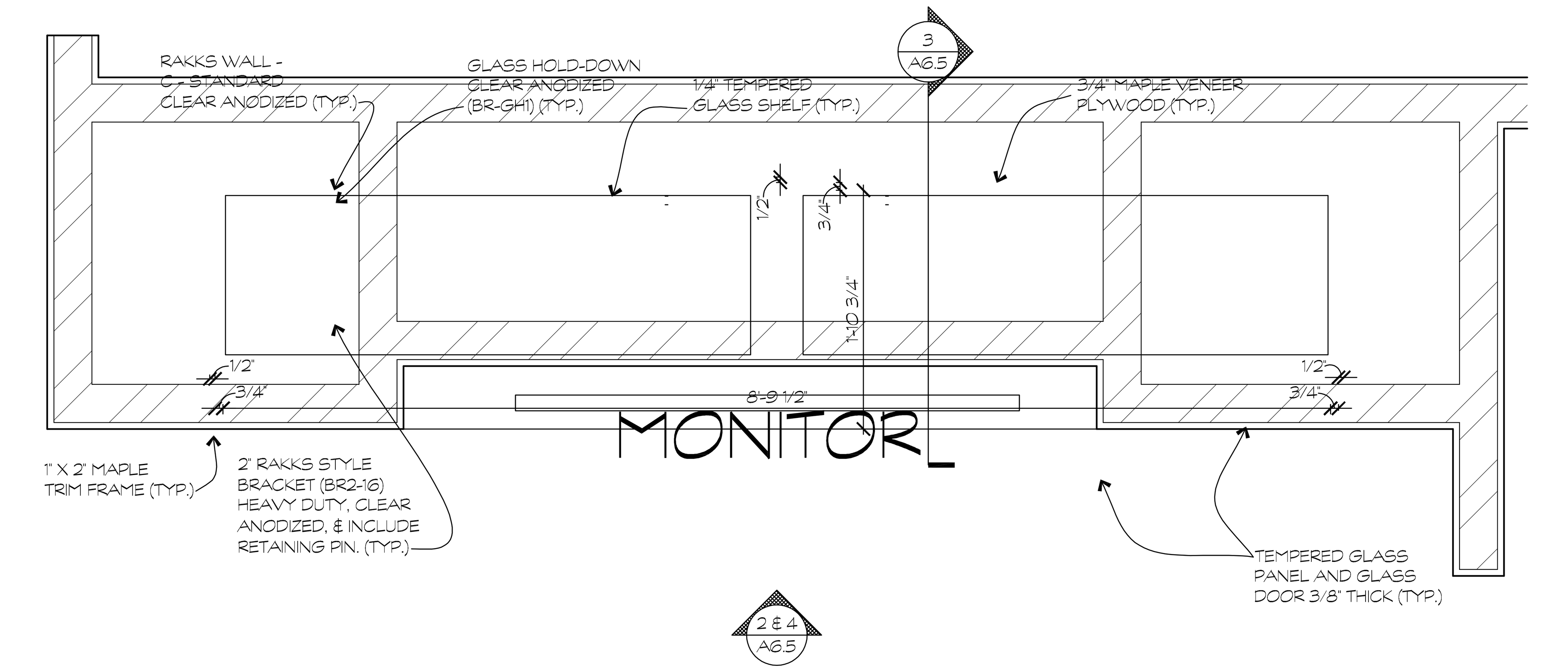
DETAIL @ WALL BRACKET W/ SHELF — 6 / A6.5
6" = 1'-0"





DETAIL@ WALL BRACKET — 5 / A6.5
6" = 1'-0"
6" = 1'-0" SCALE 0 6 INCHES

SECTION DETAIL @ DISPLAY CASE — 3 / A6.5
3" = 1'-0"
3" = 1'-0" SCALE 0 1 FEET



FLOOR PLAN @ DISPLAY CASE — 1 / A6.5
1" = 1'-0"
1" = 1'-0" SCALE 0 1 2 FEET

REVISIONS
1 — 10/21/15 RFP #027 ENTIRE SHEET ADDED
2 — 5/30/18 AS-BUILT

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FIRST FLOOR RENOVATIONS

CONFORMED SET

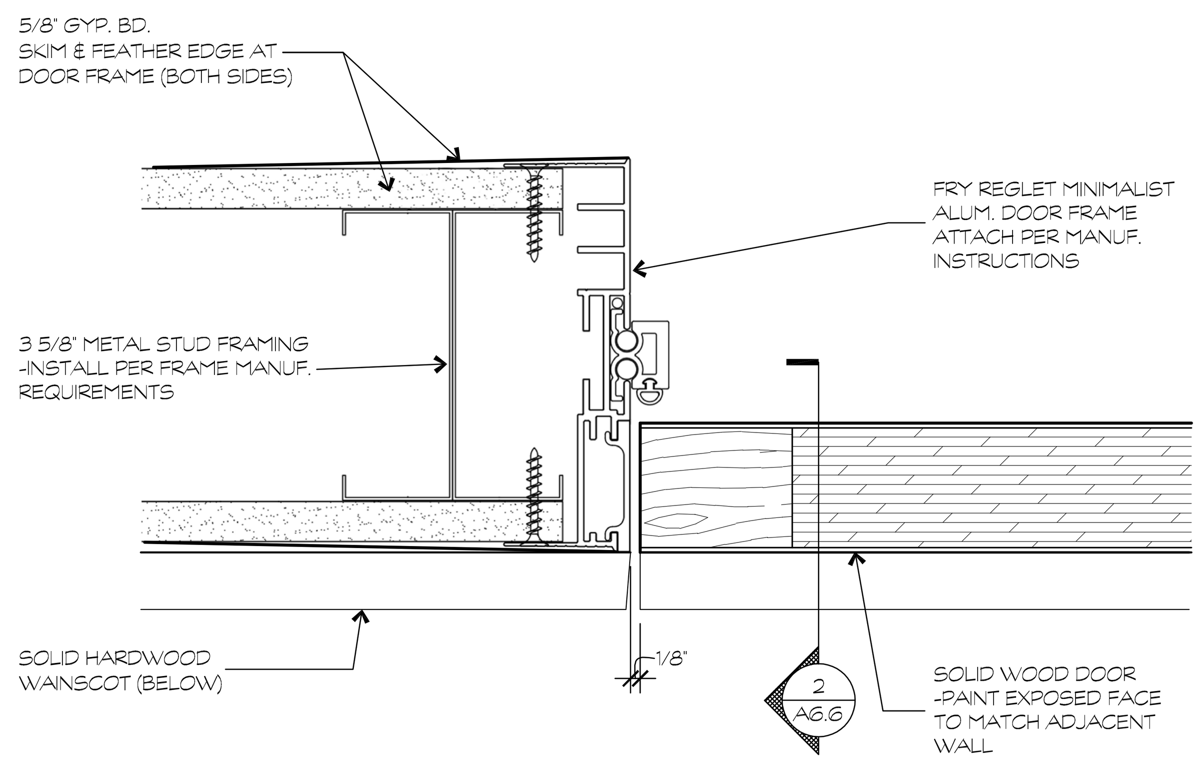
DISPLAY CASE PLAN

A6.5

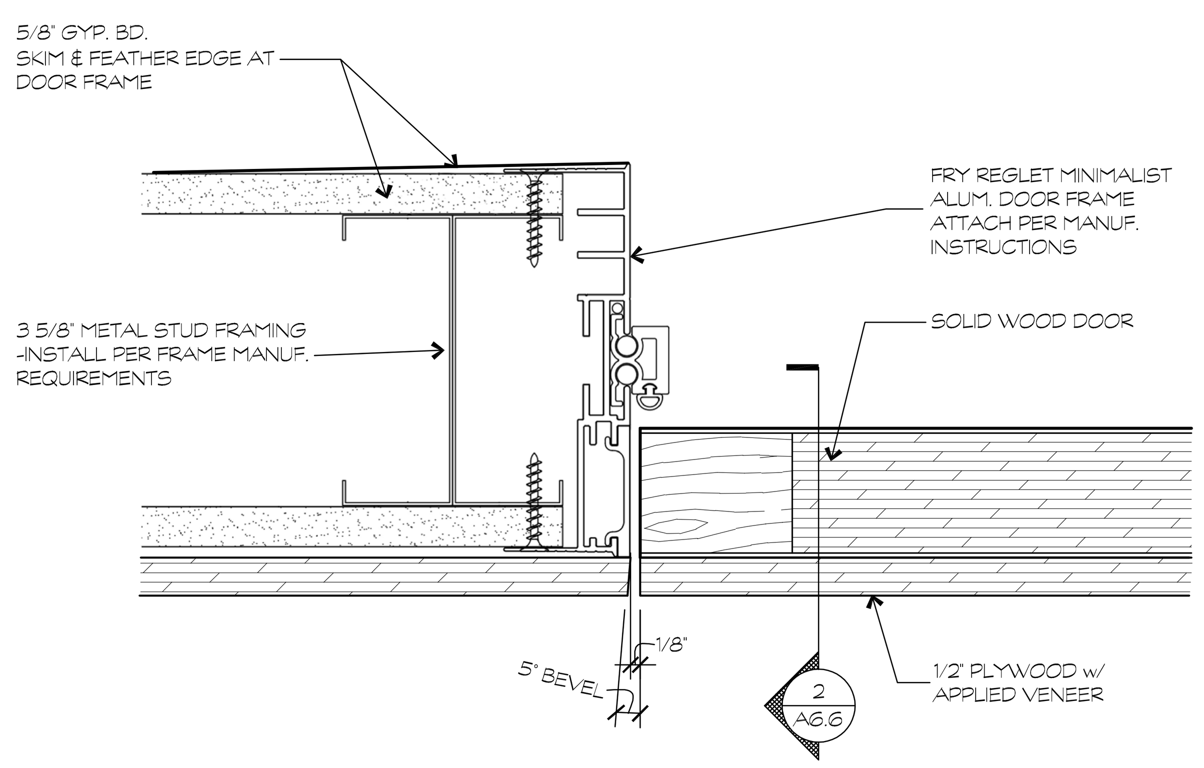
OF SHEETS

DATE : 12.06.16

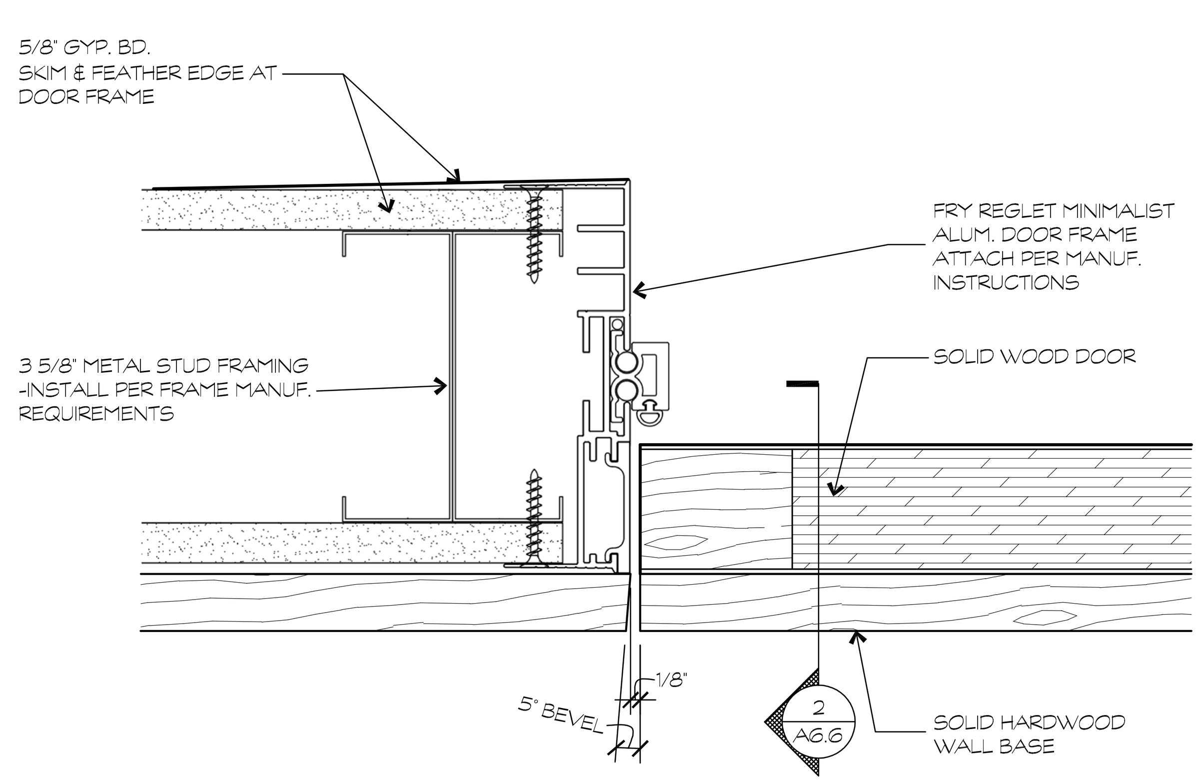
XREFS: TITLEBL_PLN1



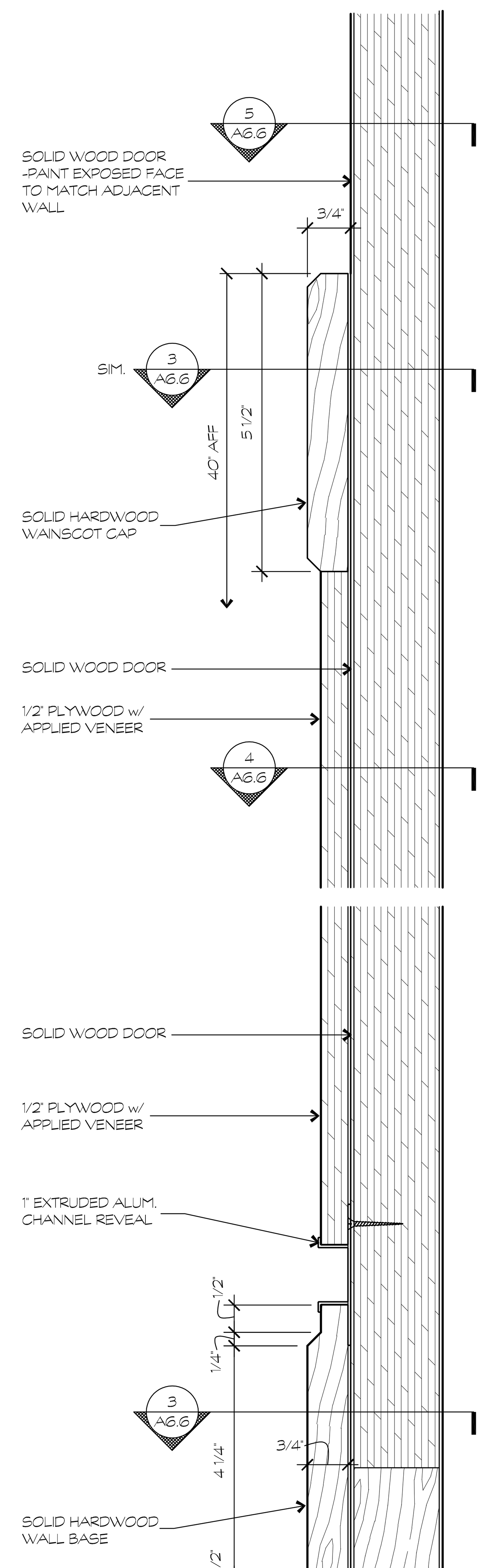
JAMB DETAIL @ GYP. BD.
6" = 1'-0"
5
A6.6



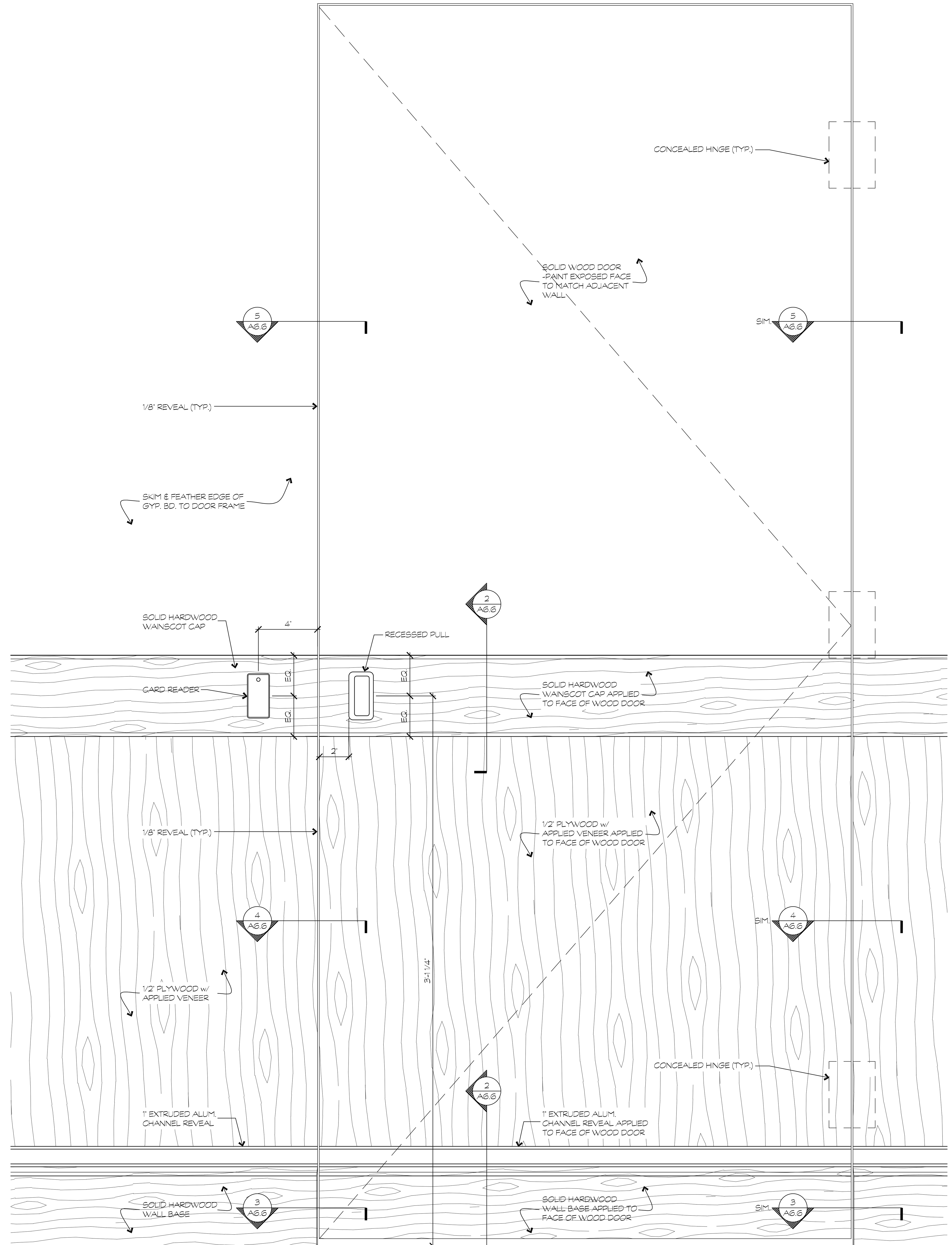
JAMB DETAIL @ WAINSCOT
6" = 1'-0"
4
A6.6



JAMB DETAIL @ WALL BASE
6" = 1'-0"
3
A6.6



HIDDEN DOOR SECTION
6" = 1'-0"
6" = 1'-0"
0 6
SCALE INCHES
2
A6.6



HIDDEN DOOR ELEVATION
3" = 1'-0"
3" = 1'-0"
0
SCALE FEET
1
A6.6

REVISIONS

1 9/17/15
RFP # 037
ENTIRE SHEET ADDED

2 5/30/18
AS-BUILT

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CONFORMED SET

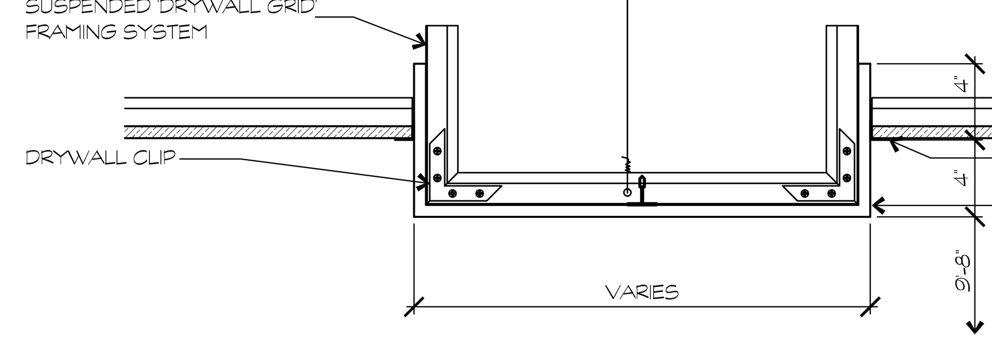
HIDDEN DOOR DETAILS

A6.6

OF SHEETS

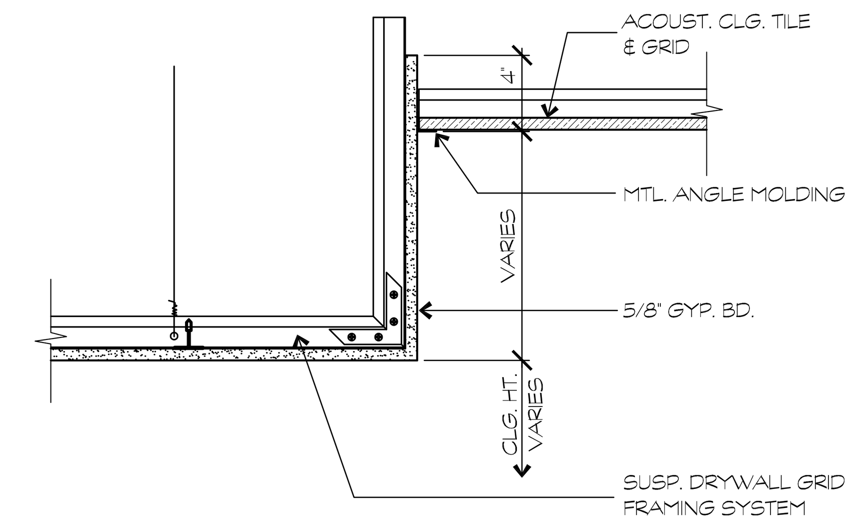
DATE : 12.06.16

XREFS: TITLEBL; PLN1



BULKHEAD DETAIL (4, A8.1)

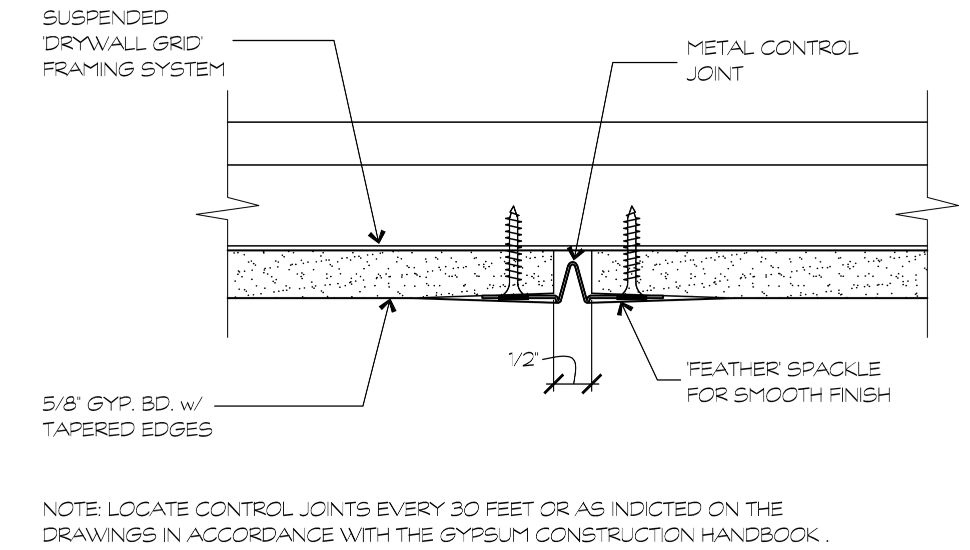
1 1/2" = 1'-0"



BULKHEAD DETAIL (3, A8.1)

1 1/2" = 1'-0"

1 1/2" = 1'-0" SCALE 0 1 FEET

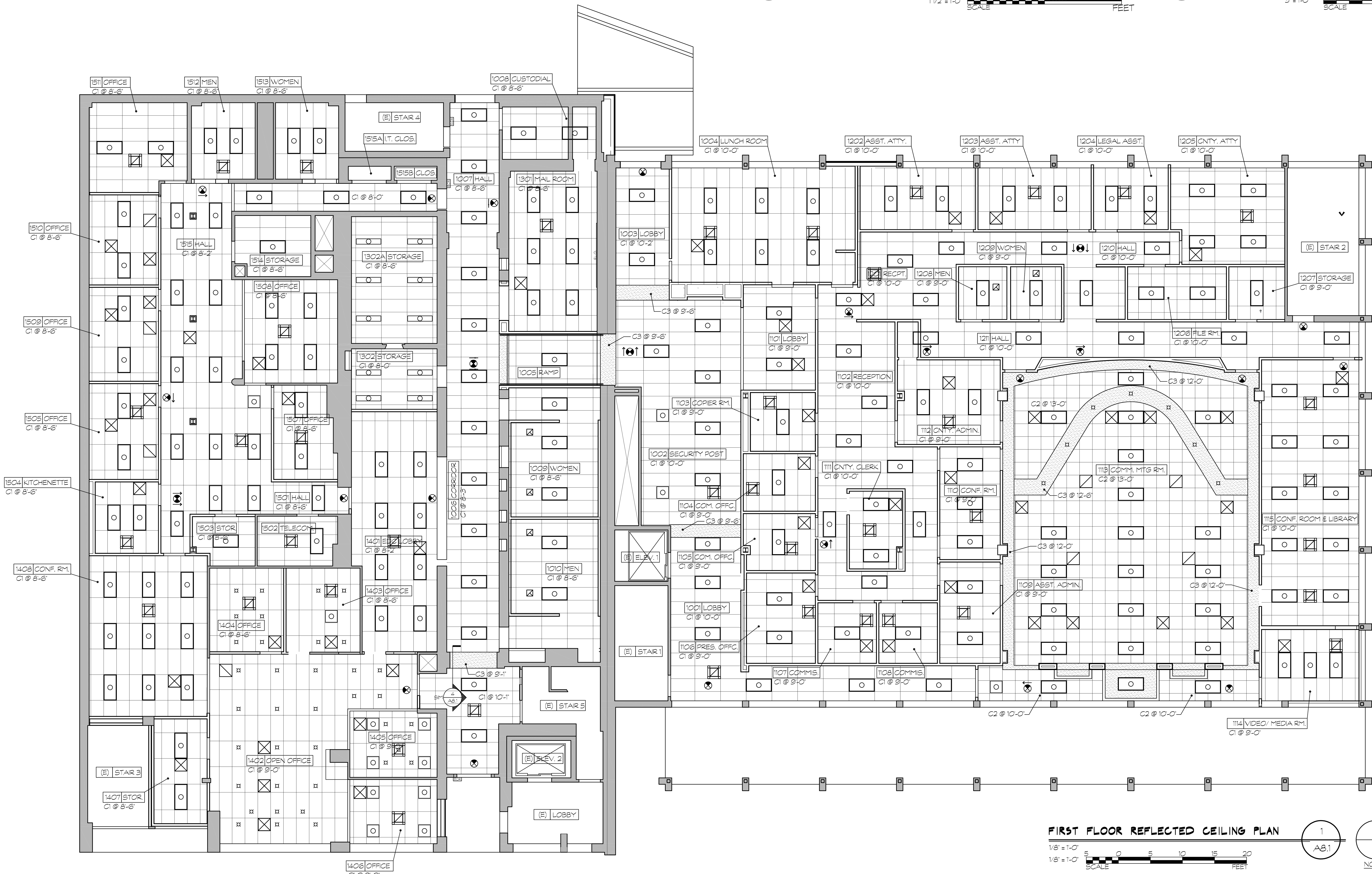


NOTE: LOCATE CONTROL JOINTS EVERY 30 FEET OR AS INDICTED ON THE DRAWINGS IN ACCORDANCE WITH THE GYPSUM CONSTRUCTION HANDBOOK.

CEILING CONTROL JT. DETAIL (2, A8.1)

3" = 1'-0"

3" = 1'-0" SCALE FEET



FIRST FLOOR REFLECTED CEILING PLAN (1, A8.1)

1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

NORTH

LEGEND

- # ROOM NAME — CEILING TYPE/ HEIGHT
- CJ - GYP. BOARD CONTROL JOINT

MISCELLANEOUS
- CEILING MOUNTED PROJECTOR (SEE ELEC.)

LIGHTING
- 2x 4 FLOURESCENT LIGHT FIXTURE
- 2x 4 FLOURESCENT LIGHT FIXTURE (EMERGENCY)
- 2x 2 FLOURESCENT LIGHT FIXTURE
- 2x 2 FLOURESCENT LIGHT FIXTURE (EMERGENCY)
- 1x 4 FLOURESCENT LIGHT FIXTURE
- DOWN LIGHT
- WALL WASH LIGHT
- TRACK LIGHTING
- WALL-MOUNTED LIGHT
- EXIT SIGN - SINGLE SIDED
- EXIT SIGN - DOUBLE SIDED
- 2 x 4' ACOUSTICAL TILE GRID
- GYP. BD. CLG.
- SOUND BATT INSUL. ABOVE CEILING

MECHANICAL
- SUPPLY
- RETURN
- EXHAUST

REVISIONS

1. 09.02.14 ADDENDUM #3
2. 03.16.15 RFP #021
3. 06.02.15 RFP #030
4. 6/3/16 RFP #054
5. 5/30/18 AS-BUILT

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX FIRST FLOOR RENOVATIONS

CONFORMED SET

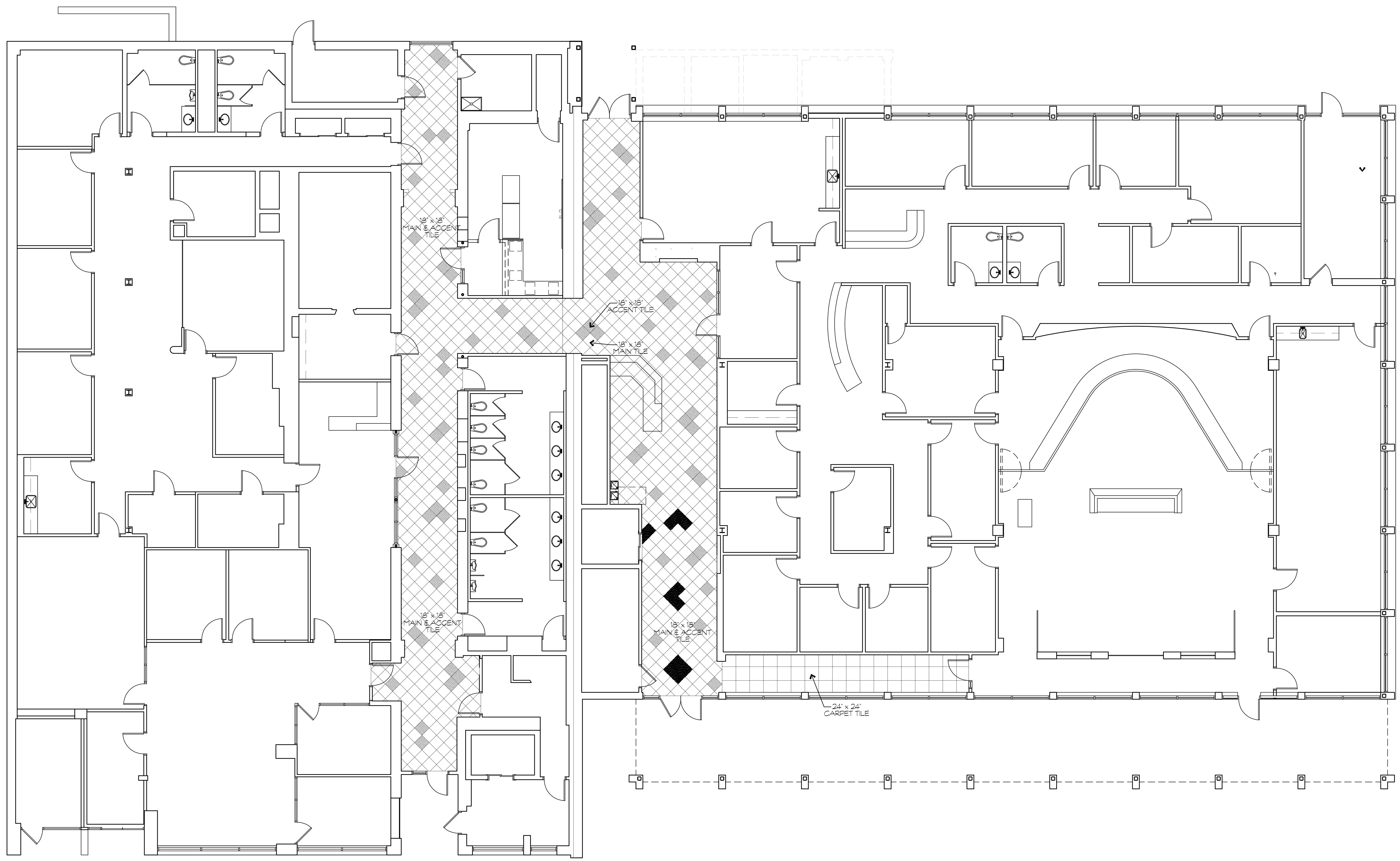
FIRST FLOOR REFL. CLG. PLAN

A8.1

OF SHEETS

DATE : 12.06.16

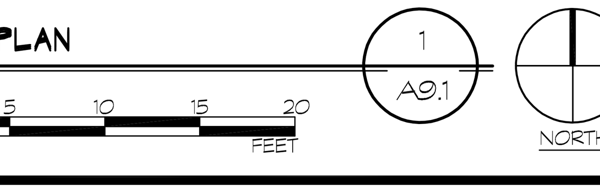
XREFS: TITLEBL; PLN1



FLOOR PATTERN PLAN

1/8" = 1'-0"

1/8" = 1'-0"



REVISIONS

1 8/28/14 ADDENDUM #3 SHEET ADDED

2 12/2/14 RFP #003

3 6/3/15 ASI# 002

4 12/06/16 ASI# 007

5 5/30/18 AS-BUILT

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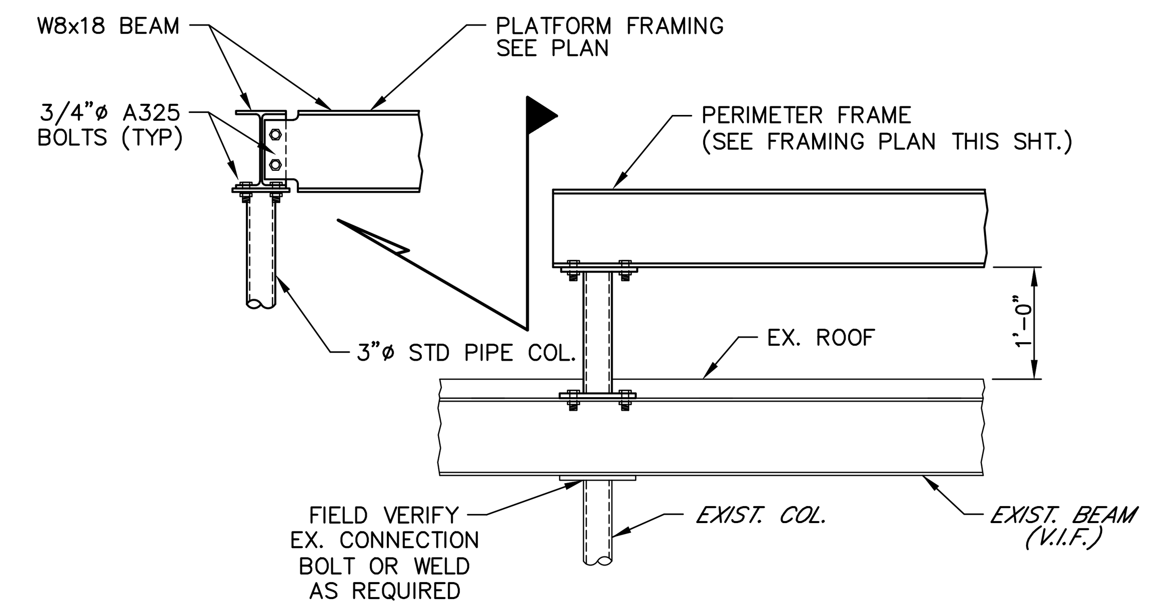
FLOOR PATTERN PLAN

A9.1

OF SHEETS

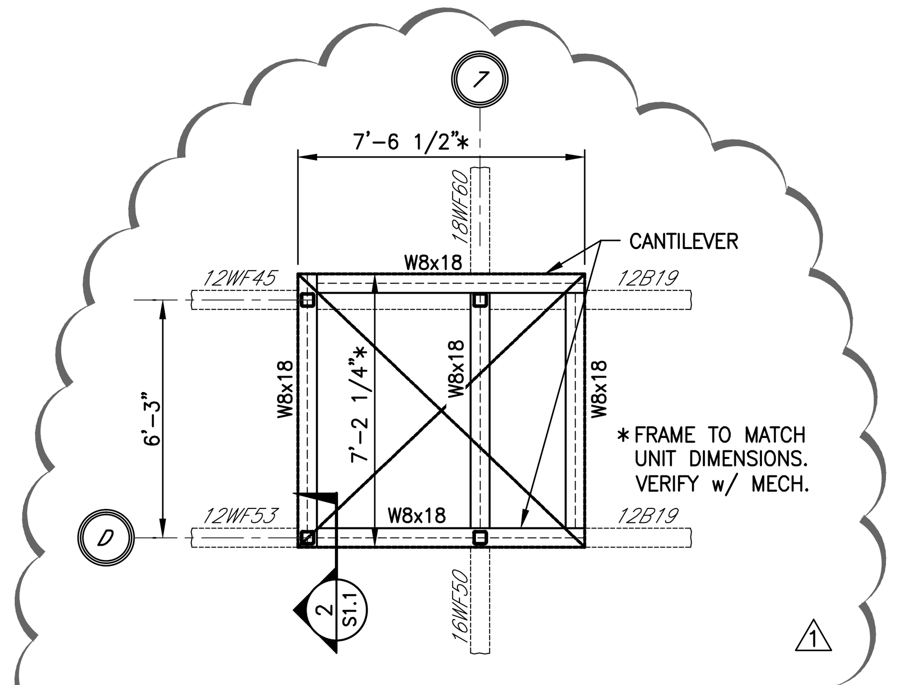
DATE : 12.06.16

XREFS: TITLEBL; PLN1



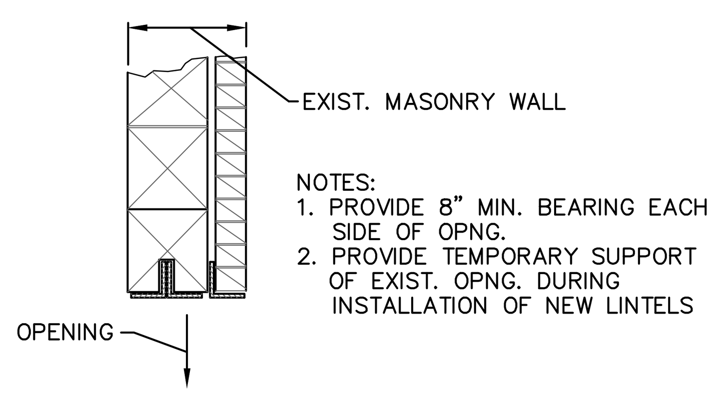
2/S-1 DETAIL – FRAME SUPPORT FOR MECH. UNIT ON ROOF

N.T.S.



1/S1.1 FRAMING PLAN – DOAS-1

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

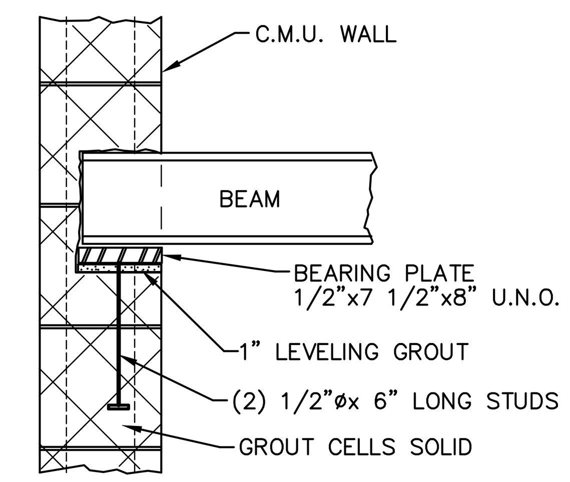


NOTES:
1. PROVIDE 8" MIN. BEARING EACH SIDE OF OPNG.
2. PROVIDE TEMPORARY SUPPORT OF EXIST. OPNG. DURING INSTALLATION OF NEW LINTELS

4'-0" CLEAR OR LESS – USE ∠4"x3 1/2"x5/16" PER 4" WIDTH OF WALL
4'-0" – 6'-0" CLEAR – USE ∠5"x3 1/2"x5/16" PER 4" WIDTH OF WALL
6'-0" – 8'-0" CLEAR – USE ∠6"x3 1/2"x5/16" PER 4" WIDTH OF WALL
FOR OPENINGS GREATER THAN 8'-0" – STEEL BEAM REQD. SEE SECTION 6

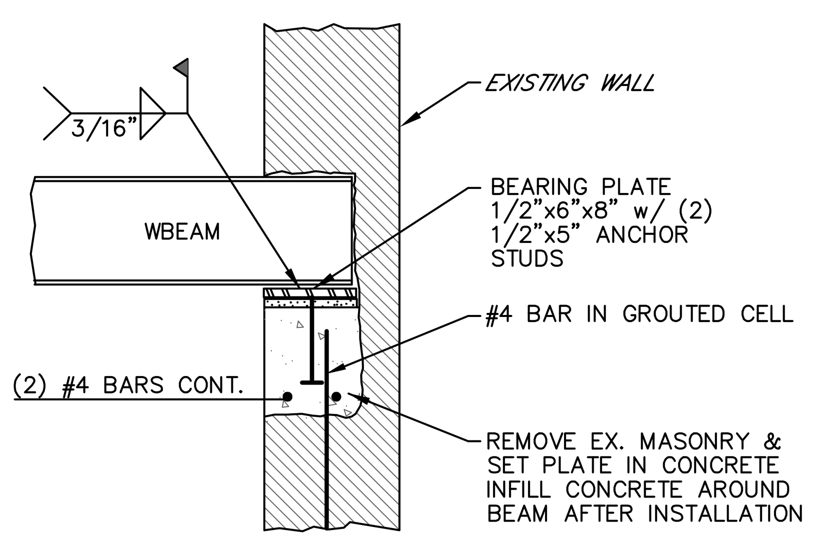
3/S1.1 SECTION – STEEL LINTEL (EXISTING WALL)

3/4"=1'-0"



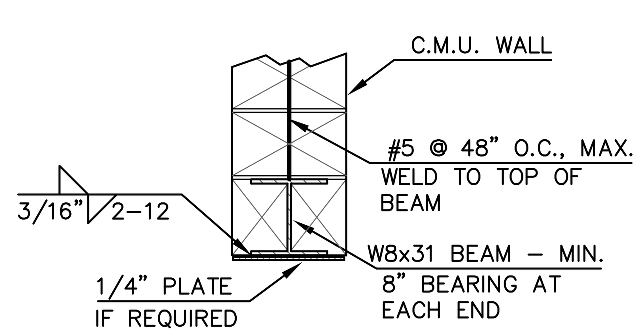
4/S1.1 SECTION – BEAM CONNECTION TO C.M.U. WALL

N.T.S.



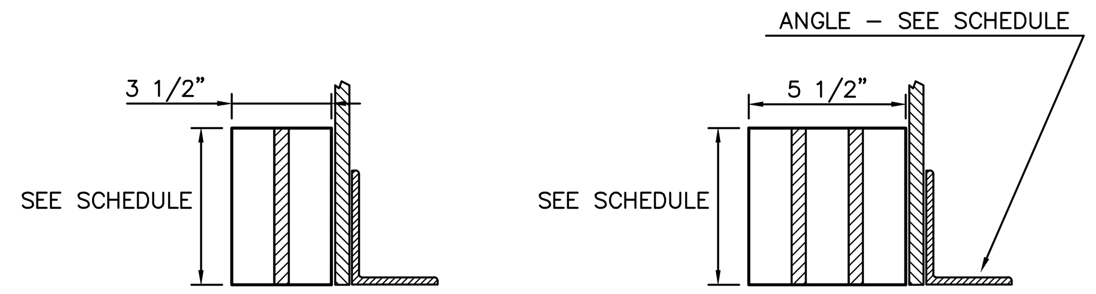
5/S1.1 SECTION – BEAM BEARING ON EXISTING CMU

3/4"=1'-0"



6/S1.1 SECTION – BEAM LINTEL

N.T.S.



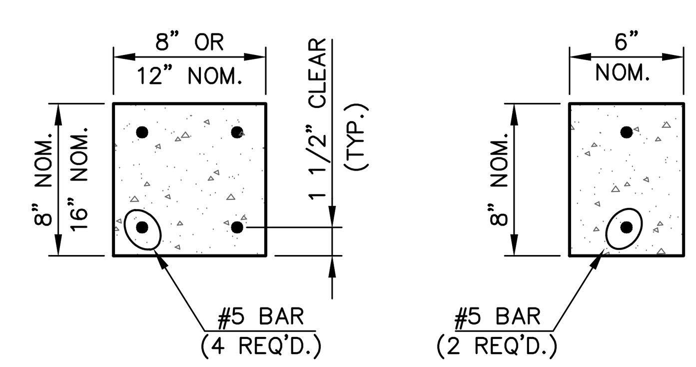
	OPENING	LINTEL
2"x4" WALL	0'– TO 4'-0"	(2) 2"x10" w/ 1/2" PLYWOOD
	4'-1" TO 6'-0"	(2) 2"x12" w/ 1/2" PLYWOOD
2"x6" WALL	0'–TO 4'-0"	(3) 2"x10" w/ (2) 1/2" PLYWOOD
	4'-1" TO 6'-0"	(3) 2"x12" w/ (2) 1/2" PLYWOOD
2"x4" & 2"x6" WALL	OVER 6'-0"	SEE PLAN (L.V.L. BEAM)

WOOD/STEEL LINTEL SCHEDULE

4'-0" CLEAR OR LESS – USE ∠4"x3 1/2"x5/16" PER 4" WIDTH OF BRICK
4'-0" – 6'-0" CLEAR – USE ∠5"x3 1/2"x5/16" PER 4" WIDTH OF BRICK
6'-0" – 8'-0" CLEAR – USE ∠6"x3 1/2"x5/16" PER 4" WIDTH OF BRICK
FOR OPENINGS GREATER THAN 8'-0" – USE 7"x4"x3/8" ANGLE PER WIDTH OF WALL & L.V.L. BEAM

A/S1.1 LINTEL SCHEDULE

N.T.S.



1) ALL BLOCK CELLS SHALL BE FULLY GROUTED BELOW LINTEL.

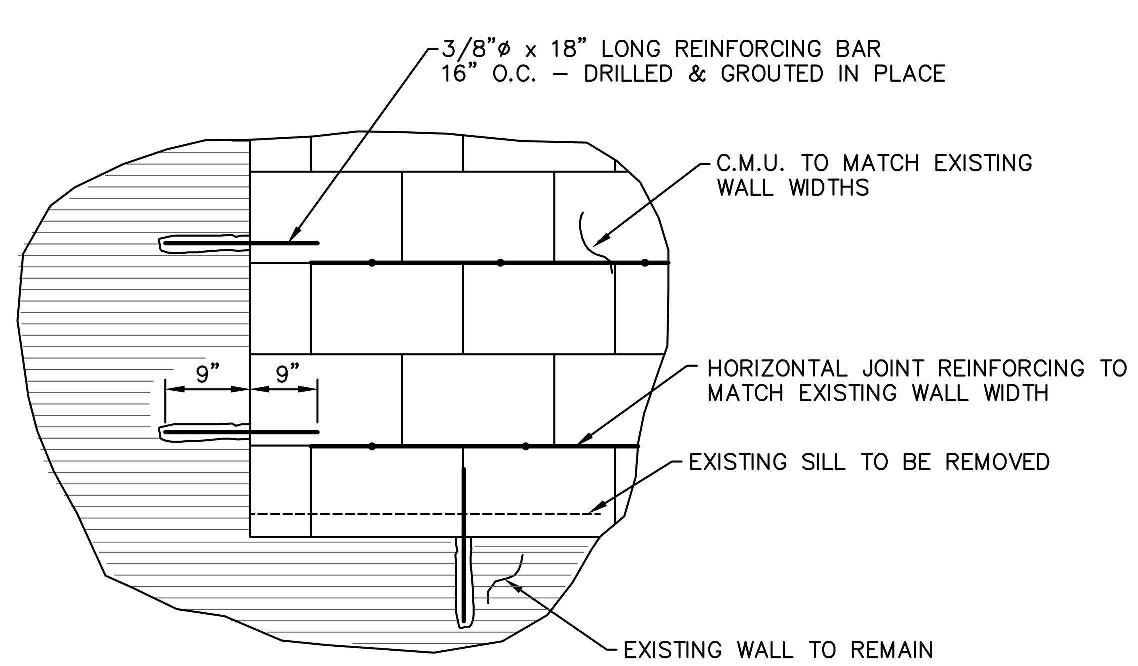
2) PRECAST LINTELS MAY BE USED WHEN THE LINTEL OCCURS IN A NON-LOAD BEARING WALL AND THE MASONRY OPENING IS LESS THAN OR EQUAL TO 6'-4".

3) MINIMUM END BEARING SHALL BE 8".

4) PRECAST LINTELS MAY BE USED IN BEARING WALLS IF STRUCTURE BEARING IS GREATER THAN 1/2 THE CLEAR SPAN ABOVE THE TOP OF THE LINTEL.

B/S1.1 DETAIL – PRECAST LINTELS

1 1/2"=1'-0"



C/S1.1 MASONRY – INFILL (EXISTING WALL)

N.T.S.

STRUCTURAL NOTES

GENERAL

1) THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

2) NOTES AND DIMENSIONS ON DRAWINGS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.

3) ALL WORK SHALL BE IN ACCORDANCE WITH THE MORE STRINGENT REQUIREMENTS OF THE MINIMUM STANDARDS LISTED IN THE GOVERNING CODE OR AS INDICATED HEREON. GOVERNING CODE SHALL BE I.B.C. 2012.

4) COORDINATE THESE DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS WITH REGARD TO DIMENSIONS, OPENINGS, LOCATION OF EQUIPMENT, ETC.

5) THE STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION, INCLUDING ALL BRACING AND SHORING REQUIRED TO RESIST THE ACTUAL CONSTRUCTION LOADS.

6) ASTM SPECIFICATIONS LISTED SHALL BE THE LATEST EDITION.

7) DESIGN LIVE LOADS:

ROOF LIVE LOAD 30 PSF NON-REDUCED	
ROOF LOAD BASED ON 40 PSF GROUND SNOW	
SLAB ON GRADE	125 PSF
WIND LOAD BASED ON 115 MPH (MIN. 15 PSF)	
ELEVATED SLABS	80PSF

CONCRETE

1) ALL CONCRETE SHALL CONFORM WITH THE REQUIREMENTS OF THE A.C.I. BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-08).

CONCRETE FOR FOOTINGS	3000 PSI
CONCRETE FOR SLABS, WALLS, PIERS	4000 PSI

2) CLEAR COVERAGE OVER OUTER REINFORCING BAR SHALL BE AS FOLLOWS:

CONCRETE POURED DIRECTLY AGAINST EARTH	3 INCHES
STRUCTURAL SLABS (TOP AND BOTTOM)	1 INCH
FORMED CONCRETE WITH EARTH BACKFILL	2 INCHES
BEAMS-CLEAR TO MAIN REINFORCING(AS NOTED)	2 INCHES
COLUMNS-CLEAR TO MAIN REINFORCING(AS NOTED)	2 INCHES

REBAR MUST BE SUPPORTED BY CHAIRS TO PREVENT DEFLECTION.

3) CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER.

4) PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE 1A IF CONCRETE IS IN CONTACT WITH SOIL OR SUBJECT TO FREEZING AND THAWING. TYPE 1 SHALL BE USED ELSEWHERE.

5) AGGREGATE FOR CONCRETE SHALL CONFORM TO ALL THE REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH THE PERMISSION OF THE STRUCTURAL ENGINEER.

6) GROUT SHALL BE PLACED USING LOW LIFT CONSTRUCTION; 4' MAX. FILL HEIGHT OR PRESSURE PUMPED FROM BOTTOM OF UNIT TO BE FILLED.– 8" MINIMUM SLUMP.

7) MAX. SLAB CONTROL JOINT PATTERN SHALL NOT EXCEED 400 SF OF AREA.

REINFORCING STEEL

1) REINFORCING STEEL SHALL CONFORM TO ASTM DESIGNATION A-615 GRADE 60. TIES AND STIRRUPS MAY BE GRADE 40.

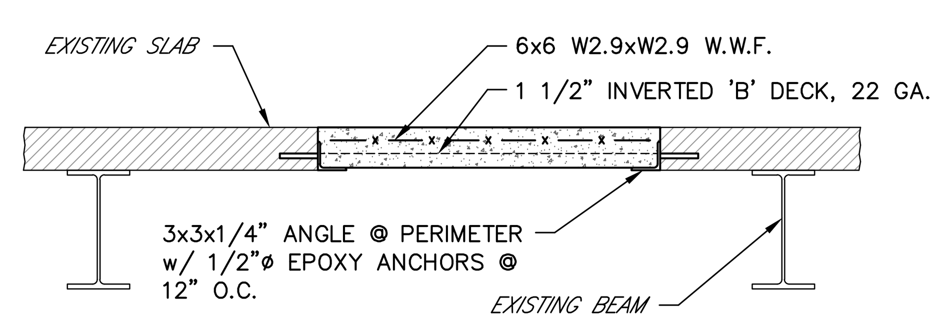
2) ALL REINFORCING SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE' (ACI LATEST APPROVED EDITION), AND THE 'MANUAL OF STANDARD PRACTICE FOR CONCRETE REINFORCEMENT' BY C.R.S.I.

3) ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

4) WELDED WIRE FABRIC SHALL CONFORM WITH ASTM A-185. FABRIC TO BE SUPPLIED IN FLAT SHEETS ONLY.

5) MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 6 INCHES OR ONE FULL MESH AND ONE HALF WHICHEVER IS GREATER.

6) DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME SIZE, GRADE, AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY.



NOTE: SEE MECH. PLANS FOR LOCATIONS

D/S-1 DETAIL – SLAB INFILL REINF.

N.T.S.

MASONRY

1) CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530.08 AND THE NCMA SPECIFICATION.

2) CONCRETE BLOCK SHALL BE HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO ASTM C90. USE OPEN END UNITS FOR BOND BEAM UNITS AT HORIZONTAL REINFORCING.

3) CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.

4) MORTAR SHALL BE TYPE S AND SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1800 P.S.I. AT 28 DAYS.

5) GROUT SHALL ATTAIN A COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS. USE SUFFICIENT WATER FOR GROUT TO FLOW INTO ALL MASONRY CELLS WITHOUT SEGREGATION. (SEE NOTE 6 UNDER CONCRETE)

6) PROVIDE A MINIMUM OF 1/2 IN. GROUT BETWEEN MAIN REINFORCING BARS AND MASONRY UNITS. LOW LIFT CONSTRUCTION SHALL BE FOLLOWED WITH A MAXIMUM POUR HEIGHT OF 4 FEET.

7) CELLS IN CONCRETE BLOCKS SHALL BE IN VERTICAL ALIGNMENT WITH THE FOOTING DOWELS PLACED TO MATCH THIS VERTICAL ALIGNMENT. FILL ALL CELLS SOLID BELOW FINISH FLOOR OR FINISH GRADE.

8) HORIZONTAL JOINT REINFORCING SHALL CONSIST OF TRUSS REINFORCING, 9 GAGE AT 16 INCHES ON CENTER VERTICALLY. DURO-EYE (2 PIECE)

9) PROVIDE CONTROL JOINTS AS SHOWN NOT TO EXCEED A MAXIMUM SPACING OF 24 FEET.

STRUCTURAL STEEL

1) STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (LATEST EDITION).

2) ALL STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A-992 , GRADE 50 FOR W SHAPES AND ASTM A-36 FOR MISC. STRUCTURAL SHAPES UNLESS OTHERWISE NOTED.

3) PIPE COLUMNS SHALL CONFORM TO ASTM DESIGNATION A-53 GRADE 'B'. ALL STEEL TUBES SHALL CONFORM TO ASTM DESIGNATION A-500 GRADE 'B' COLD FORMED TUBES WITH FY = 46 KSI.

4) BEAM CONNECTIONS SHALL BE LONGEST PERMITTED BY BEAM WEB DEPTH. ALL BOLTS SHALL BE A325-N EXCEPT AS NOTED. ALL WELDS SHALL BE MADE WITH 70KSI ELECTRODES. ALL WELDS SHALL BE SHOP PAINTED, FIELD WELDS SHALL BE PAINTED TO MATCH.

5) THE CONTRACTOR SHALL PROVIDE ALL NECESSARY TEMPORARY BRACING FOR NEW AND EXISTING STRUCTURAL STEEL. THE FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

6) BOLT HOLES SHALL BE 1/16 INCH LARGER DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNLESS OTHERWISE NOTED.

7) ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE SHALL BE LEFT UNPAINTED. PRIMER SHALL BE USED ELSEWHERE. SEE SPECIFICATIONS.

8) ALL WELDS SHALL BE IN CONFORMANCE WITH THE STRUCTURAL WELDING CODE (AWS D1.1) OF THE AMERICAN WELDING SOCIETY.

9) ALL BOLTED CONNECTIONS ARE DESIGNED FOR THE BEARING-TYPE CONDITION WITH THREADS INCLUDED IN THE SHEAR PLANE. BOLTS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION.

10) ALL NEW STEEL FRAMING MEMBERS EXPOSED TO THE WEATHER SHALL BE G90 HOT-DIPPED GALVANIZED. WELDED CONNECTIONS SHALL BE PAINTED WITH ZINC RICH PAINT.

TIMBER NOTES

1) TIMBER CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF 'MANUAL OF HOUSE FRAMING' AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION AND THE 'AMERICAN INSTITUTE OF TIMBER CONSTRUCTION' (LATEST EDITION).

2) STRUCTURAL FRAMING MEMBERS AND LIGHT FRAMING MEMBERS SHALL BE SPF No.2 .

3) ALL TIMBER FRAMING SHALL BE TEMPORARILY BRACED UNTIL ALL CONNECTING MEMBERS HAVE BEEN ERECTED AND FASTENED IN PLACE.

4) PSL BEAMS SHALL CONFORM WITH THE FOLLOWING MINIMUM DESIGN PROPERTY REQUIREMENTS:

MODULUS OF ELASTICITY	2,000,000 PSI
ALLOWABLE BENDING FIBER STRESS	2800 PSI
HORIZONTAL SHEAR STRESS	285 PSI
COMPRESSION STRESS PARALLEL TO GRAIN	2900 PSI

⚠ - REVISION - 8/28/14

REGAN-MATONAK & ASSOCIATES
STRUCTURAL ENGINEERS
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RMA JOB# 14-006

I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO. 11953, EXPIRATION DATE: 5-6-2016

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BFM# 14028
RHL# 13208

WASH. CO. ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS

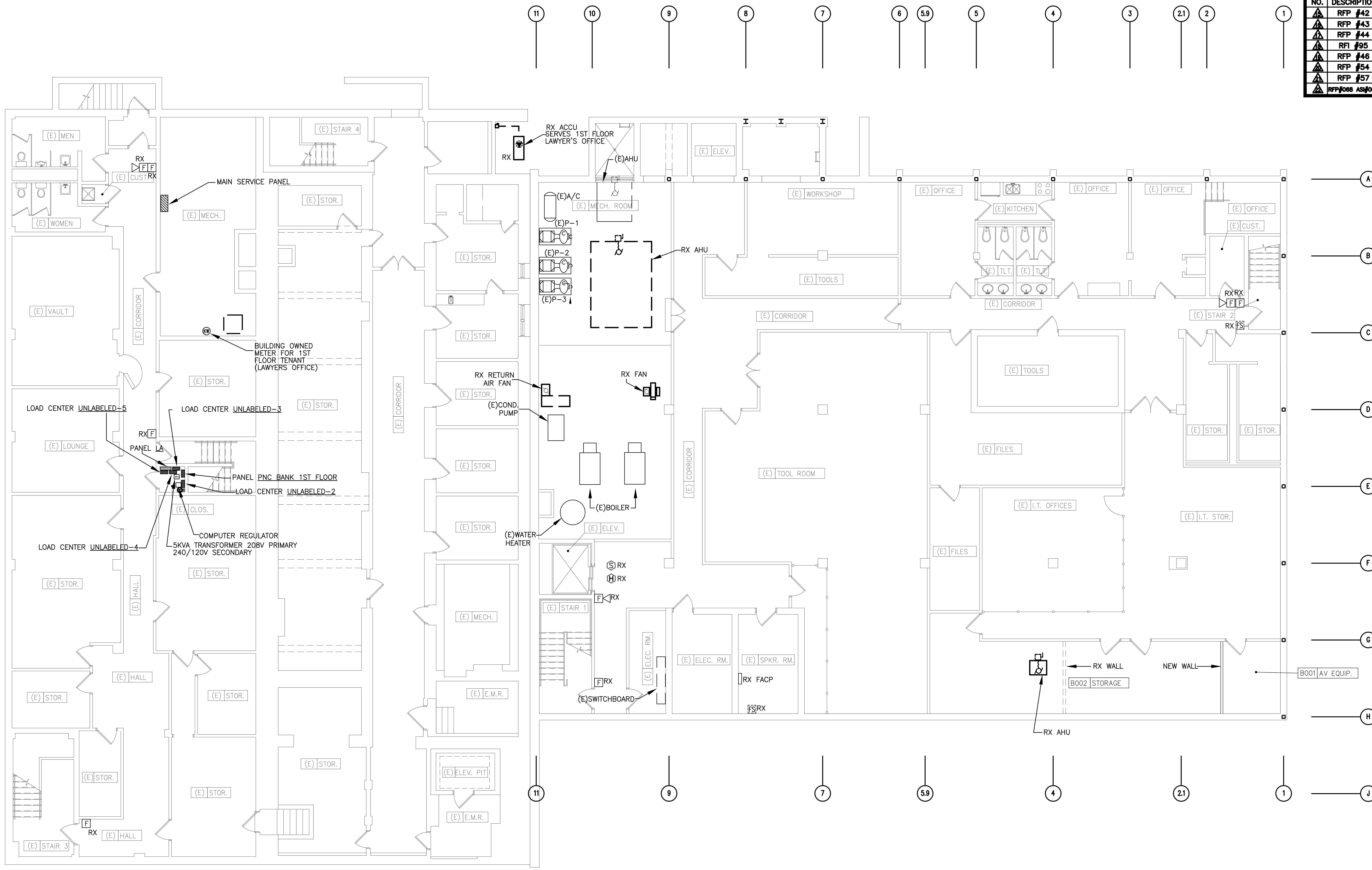
CONFORMED SET

TYPICAL STRUCTURAL NOTES & DETAILS

S1.1

OF 1 SHEETS

DATE: 08.15.14



BASEMENT FLOOR PLAN - ELECTRICAL DEMO

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

ELECTRICAL LEGEND AND ABBREVIATIONS

1. COORDINATE LOCATIONS AND SIZES WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
2. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS ARE TO CENTER LINE OF EQUIPMENT.
3. WHERE APPLICABLE, MOUNTING HEIGHTS SHALL CONFORM TO HANDICAPPED CODE.

FLEXIBLE METAL RACEWAY (GREENFIELD) OR SEALTIGHT WITH REQUIRED WIRING.

(1) DRAWING NOTE, NUMBER INDICATES NOTE NUMBER.

DUPLEX RECEPTACLE, SPEC GRADE, 1PH, 125V, 20A, NEMA 5-20, GROUNDING TYPE, MTD 18 INCHES AFF UNLESS OTHERWISE NOTED. HUBBELL #5362 OR APPROVED EQUAL.

C: DUPLEX RECEPTACLE, COUNTER HIGH, MOUNTED 8 INCHES ABOVE COUNTER HEIGHT AND SHALL CLEAR BACKSPLASH.

GFI: DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTING, SPEC GRADE, 125V, 20A, FEED THRU TYPE. MOUNTED 48 INCHES AFF UNLESS OTHERWISE NOTED. HUBBELL #GF-5362 OR APPROVED EQUAL.

DOUBLE DUPLEX RECEPTACLE, SPEC GRADE, 1PH, 125V, 20A, NEMA 5-20, GROUNDING TYPE, MTD. 18 INCHES AFF UNLESS OTHERWISE NOTED, HUBBELL #5362 OR APPROVED EQUAL.

RECEPTACLE, SPECIAL PURPOSE, GROUNDING TYPE, NEMA CONFIGURATION TO SUIT EQUIPMENT.

FLEXIBLE EQUIPMENT CONNECTION, HARD WIRED.

J J: JUNCTION BOX, OUTLET BOX, OR PULL BOX, SIZE AS REQUIRED.

MOTOR CONNECTION; NUMBER INDICATES H.P.

DISCONNECT SWITCH; SIZE PER NEC. MOUNT ADJACENT TO EQUIPMENT. INSTALL AND FUSE PER EQUIPMENT INSTALLATION RECOMMENDATION AND NEC.

AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT, COORDINATE OVERCURRENT DEVICE AND WIRE SIZES WITH MECHANICAL EQUIPMENT NAMEPLATE DATA.
(E)	EXISTING TO REMAIN.
RLX	RELOCATE EXISTING
RX	REMOVE EXISTING
WP	WEATHERPROOF, TO SUIT INTENDED USAGE.

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

THESE AS-BUILTS OR RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

1	06-04-18	AS-BUILTS

NORTH

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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1	ADDENDUM#3	08-28-14
2	ADDENDUM#4	09-03-14
3	SEWER COORD.	11-03-14
4	SEWER COORD.	12-16-14
5	EXHAUST REV.	01-06-15
6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

REVISION

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9	EA DUCT COORD.	02-17-15
10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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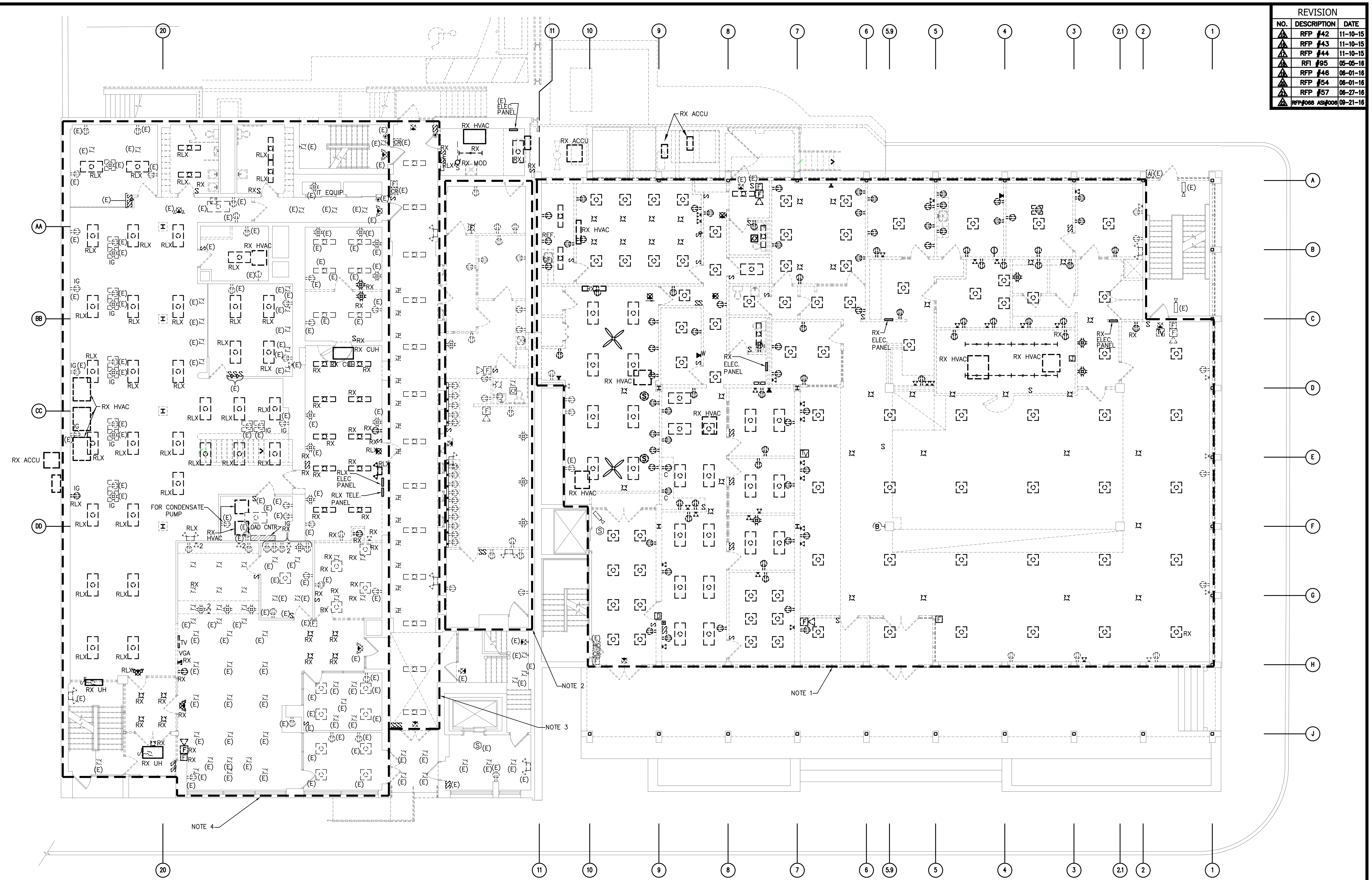
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN ELECTRICAL DEMO

E0.1

DATE : 08.15.14



DEMO NOTES:

1. ALL DEVICES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; RECEPTACLES, SWITCHES, PANELS, DATA AND TELEPHONE SHALL BE REMOVED IN THEIR ENTIRETY. REMOVE ALL BOXES AND CONDUIT IN THEIR ENTIRETY AND BACK TO THE SOURCES.

2. ALL DEVICES AND EQUIPMENT INCLUDING BUT NOT LIMITED TO; RECEPTACLES, SWITCHES, PANELS, FIRE ALARM, DATA AND TELEPHONE SHALL BE REMOVED IN THEIR ENTIRETY. REMOVE ALL BOXES AND CONDUIT IN THEIR ENTIRETY AND BACK TO THE SOURCES.

3. EXISTING CEILING TO BE REPLACED. REMOVE ALL LIGHT FIXTURES INCLUDING EXIT SIGNS. EXISTING CIRCUITS SHALL REMAIN FOR REUSE.

4. EXISTING CEILING TO BE REPLACED. NOTE FIXTURES TO BE RELOCATED AND EXISTING FIXTURES TO REMAIN. FIXTURES TO BE RELOCATED SHALL BE REMOVED AND STORED. FIXTURES TO REMAIN SHALL BE TEMPORARILY ATTACHED TO STRUCTURE FOR RE-INSTALLATION.

FIRST FLOOR PLAN - ELECTRICAL DEMO

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

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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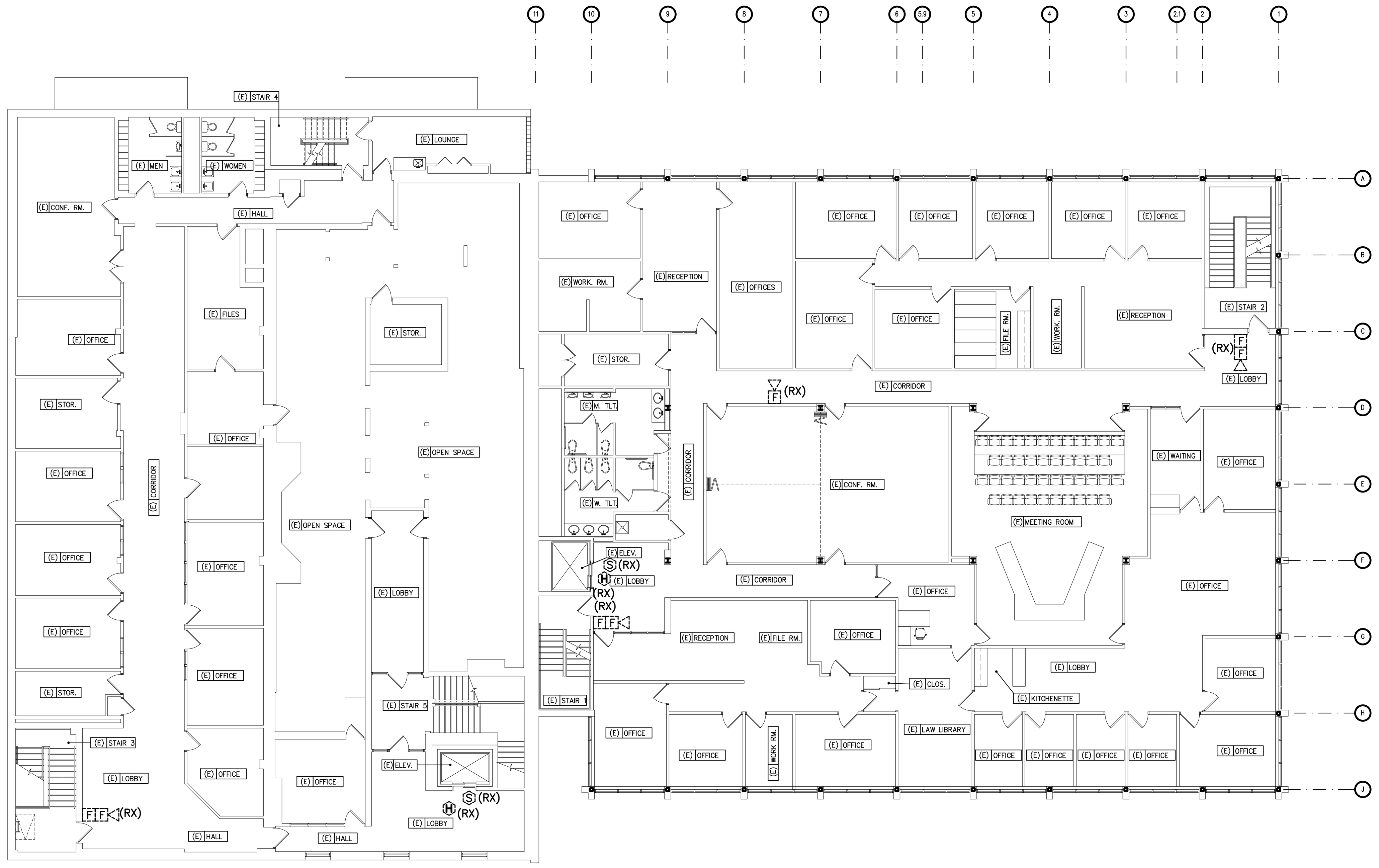
FIRST FLOOR PLAN
ELECTRICAL DEMO

E0.2

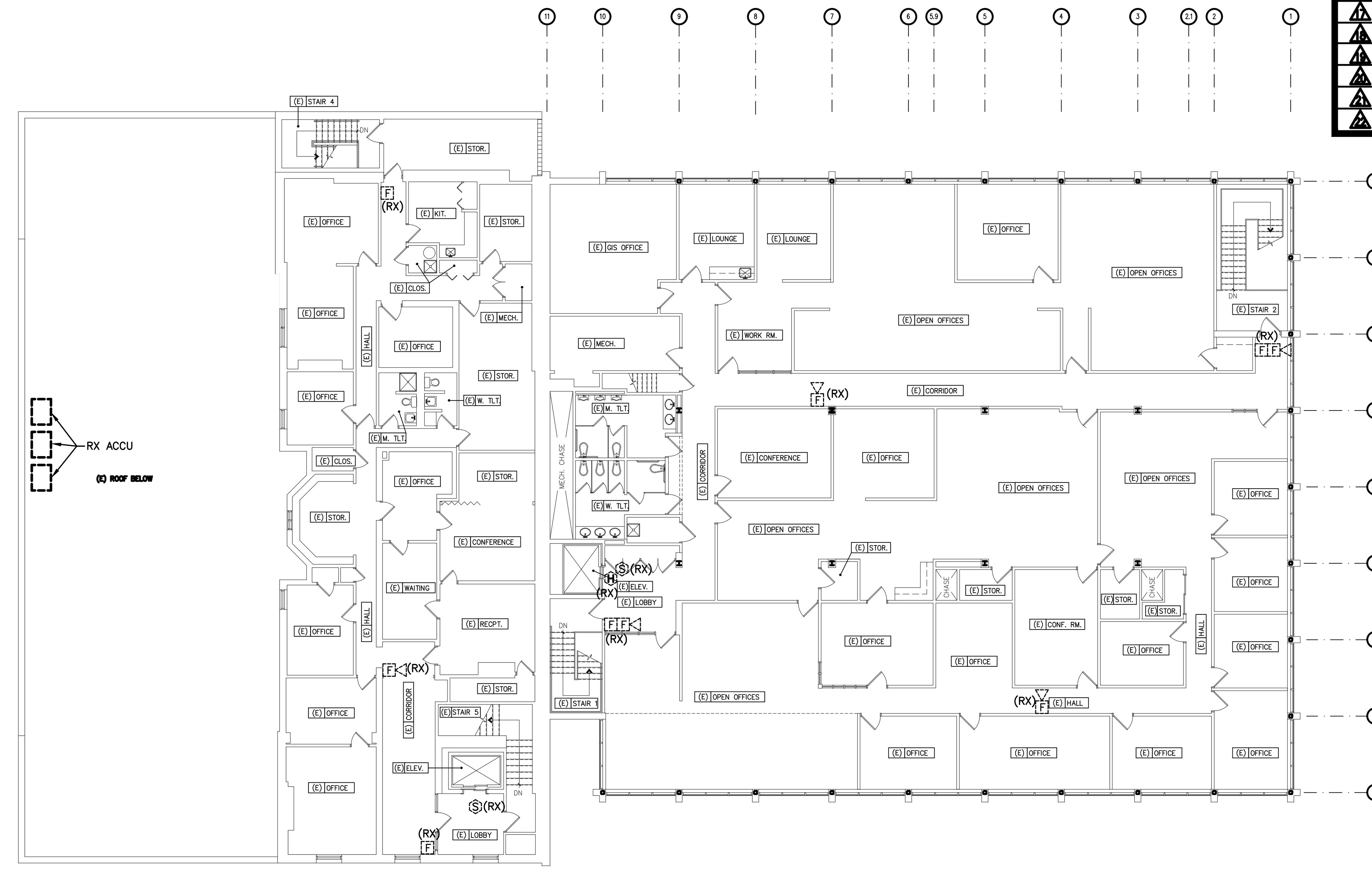
2 OF 14 SHEETS

DATE : 08.15.14



SECOND FLOOR PLAN - ELECTRICAL DEMO

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



THIRD FLOOR PLAN - ELECTRICAL DEMO

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

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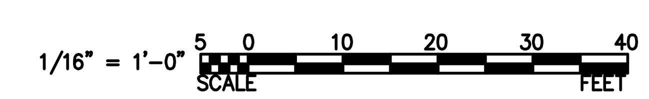

1	06-04-18	AS-BUILTS

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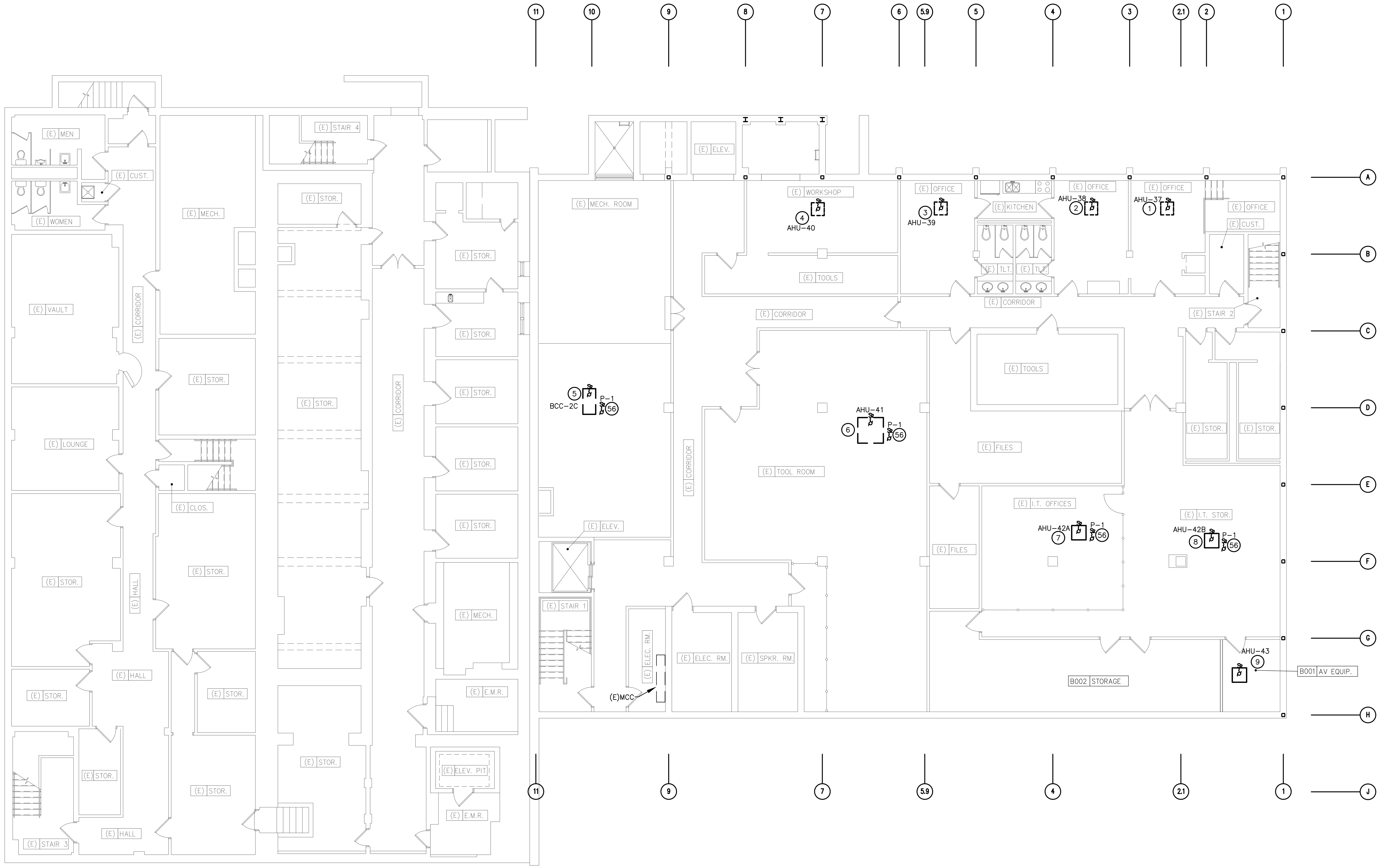
SECOND & THIRD FLOOR PLANS ELECTRICAL DEMO

E0.3

3 OF 14 SHEETS

DATE : 08.15.14



BASEMENT FLOOR PLAN - ELECTRICAL - NEW

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

EQUIPMENT SCHEDULE – ELECTRICAL (THIS SHEET ONLY) E1.1

NO.	ITEM	QTY.	VOLTS	PHASE	AMPS	CIRCUIT	CABLE/CONDUIT	DISCONNECT/RECEPTACLE	FUSE	REMARKS
1	AHU-37	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
2	AHU-38	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
3	AHU-39	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
4	AHU-40	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
5	BCC-2C	1	208	1	1.63	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
6	AHU-41	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
7	AHU-42A	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
8	AHU-42B	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
9	AHU-43	1	208	1	0.35	PP2-17,19	(2)#12,(1)#12 GRD-3/4"C	20A MOTOR SNAP SWITCH	N/A	.
	.	.	.	.	.	.	.	.	.	.

SHEET NOTES:

1. REFER TO "TELECOMMUNICATION" DRAWINGS FOR A/V, DATA AND SECURITY.

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1	06-04-18	AS-BUILTS

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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REVISION

NO.	DESCRIPTION	DATE
1	ADDENDUM#3	08-28-14
2	ADDENDUM#4	09-03-14
3	SEWER COORD.	11-03-14
4	SEWER COORD.	12-16-14
5	EXHAUST REV.	01-06-15
6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

REVISION

NO.	DESCRIPTION	DATE
8	RFP #16	02-17-15
9	EA DUCT COORD.	02-17-15
10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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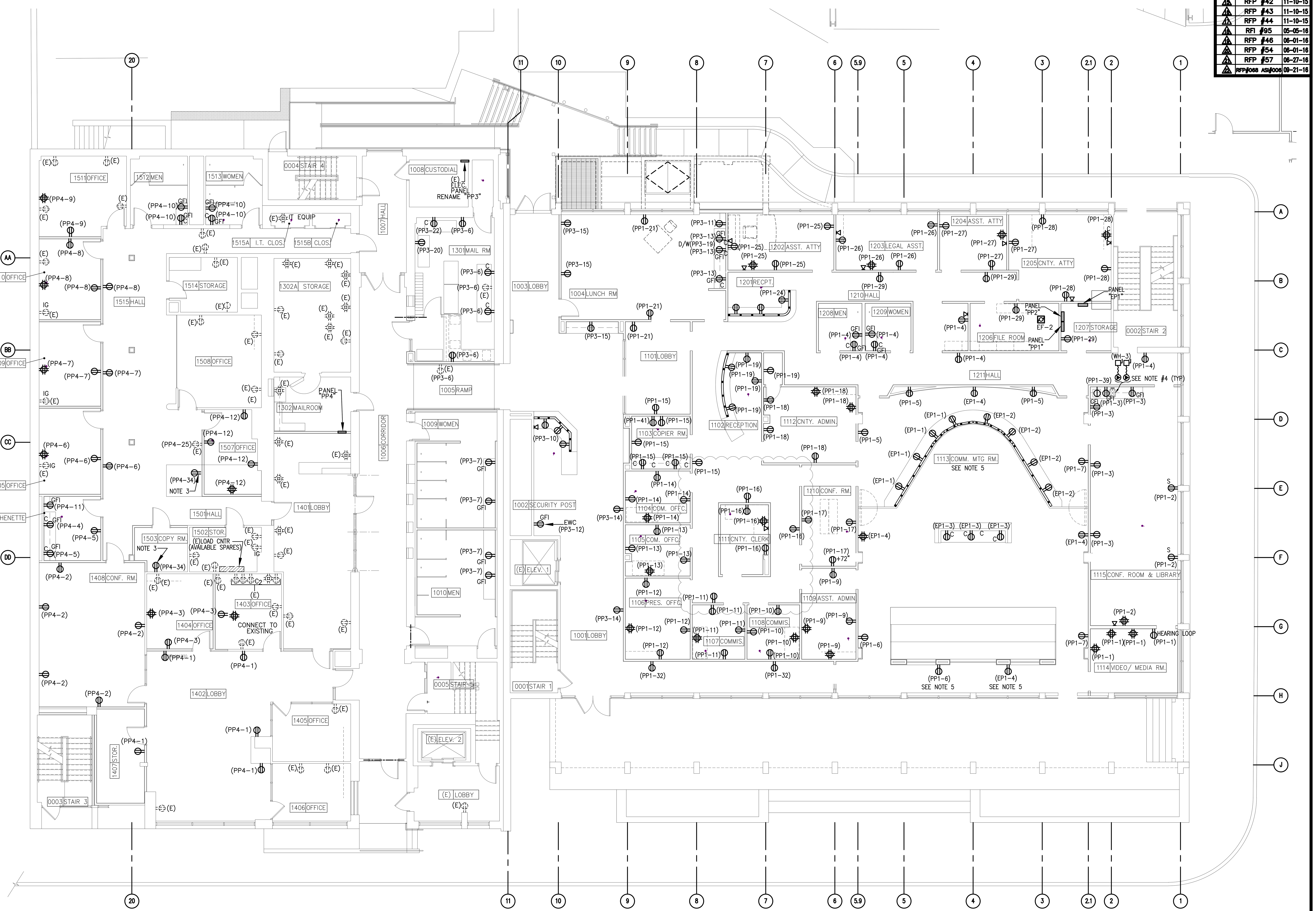
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN - ELECTRICAL-NEW

E1.1

4 OF 14 SHEETS

DATE : 08.15.14



SHEET NOTES:

1. FURNISH AND INSTALL 2 CHANNEL WIREMOLD UNDER COUNTER. INSTALL RECEPTACLES AS SHOWN.
2. REFER TO "TELECOMMUNICATION" DRAWINGS FOR A/V, DATA AND SECURITY. CONTRACTOR SHALL COORDINATE ADDITIONAL JUNCTION BOXES AND CONDUITS FOR A/V, DATA, AND SECURITY WITH THE "TELECOMMUNICATION" DRAWINGS.
3. CONTRACTOR SHALL COORDINATE LOCATION OF DEDICATED CIRCUIT WITH OWNER. ONLY ONE DEDICATED RECEPTACLE IS REQUIRED. FINAL LOCATION HAS NOT BEEN DETERMINED BY OWNER.
4. PROVIDE THE FOLLOWING FOR WH-3
   DISCONNECT :(2) HEAVY DUTY, 240V,60A, 2POLE, NEMA 12, NON-FUSED
   CABLE CONDUIT:(2) #8, (1) # 10 GRD – 3/4"C (2 SETS)
   CIRCUIT: PP2-16,18 AND PP2-20,22
   BREAKER: (2) 45A/2P
5. PROVIDE STAINLESS STEEL COVER PLATES IN THIS AREA.

FIRST FLOOR PLAN - GENERAL POWER - NEW

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

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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1	06-04-18	AS-BUILTS

NORTH

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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NO.	DESCRIPTION	DATE
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11	RFP #30	06-02-15
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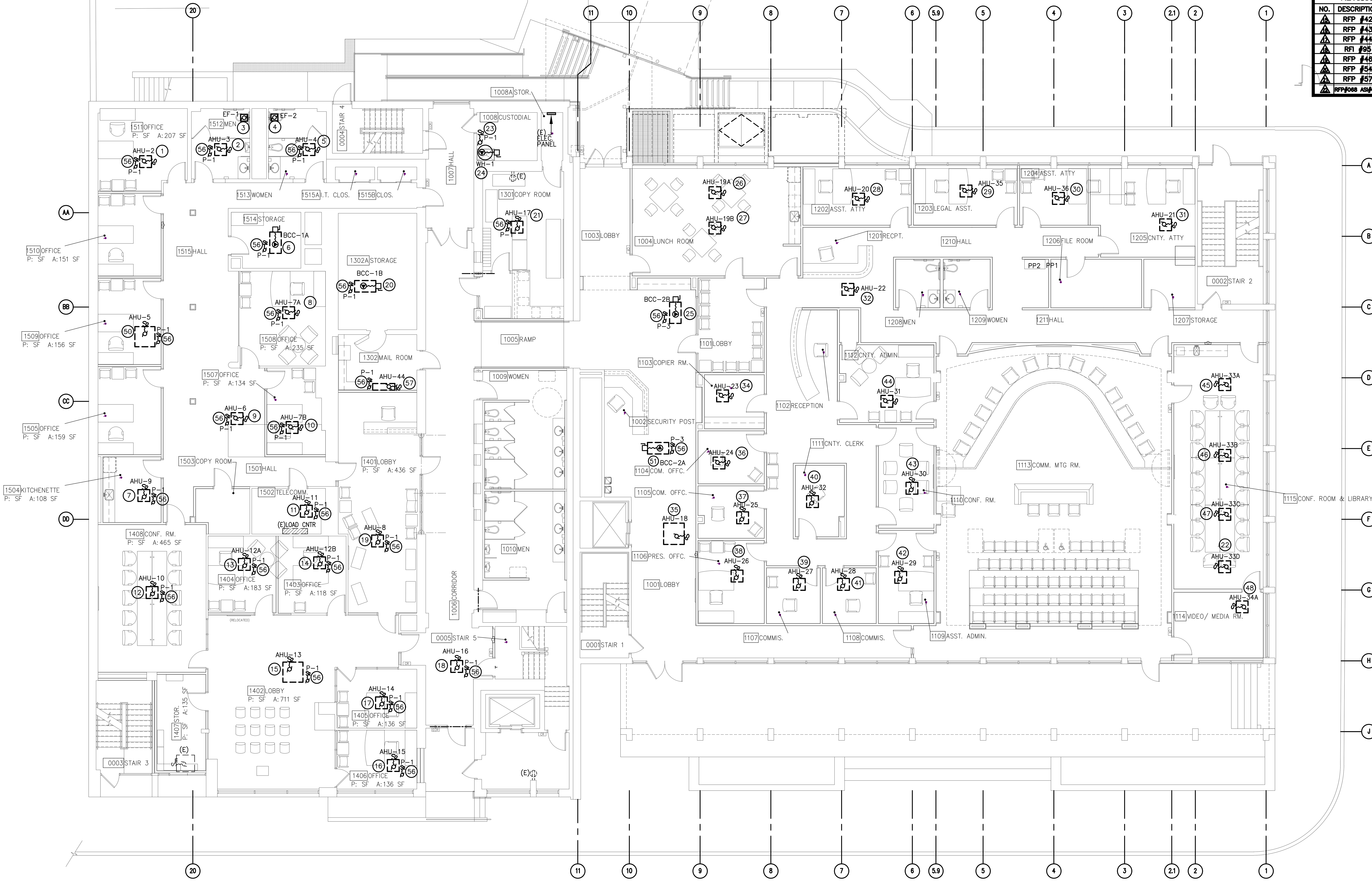
RHL No. 13208 FIRST FLOOR RENOVATIONS

FIRST FLOOR PLAN GENERAL POWER NEW

E1.2

5 OF 14 SHEETS

DATE : 08.15.14



FIRST FLOOR PLAN - POWER - NEW

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

SHEET NOTES:

1. REFER TO SHEET E1.4 FOR EQUIPMENT SCHEDULE
2. REFER TO SHEET E4.2 FOR PANEL SCHEDULES

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1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

	06-04-18	AS-BUILTS

NORTH

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
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RHL No. 13208 FIRST FLOOR RENOVATIONS

FIRST FLOOR PLAN - POWER - NEW

E1.3

6 OF 14 SHEETS

DATE : 08.15.14

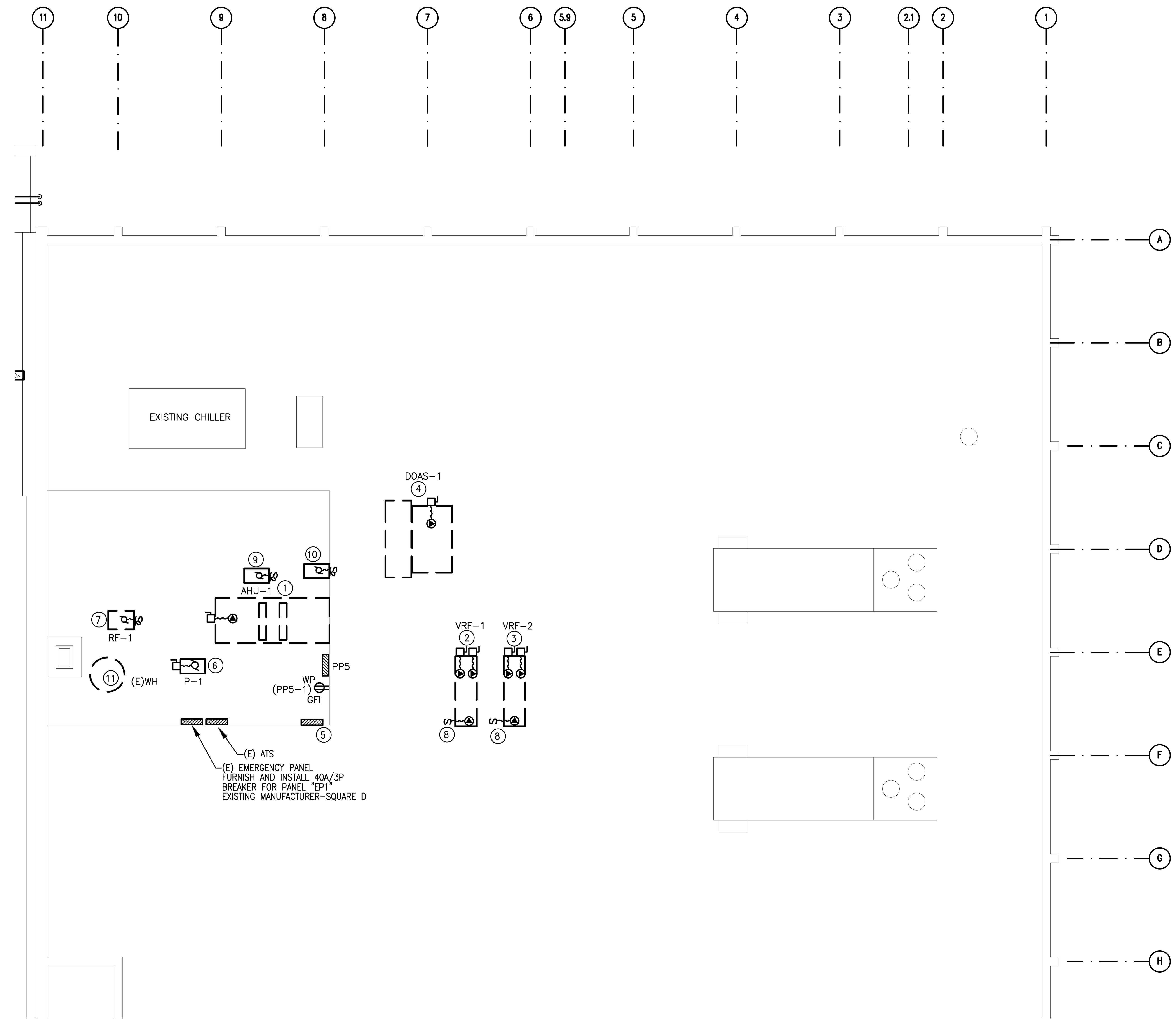
EQUIPMENT SCHEDULE – ELECTRICAL (SHEET E1.3 ONLY)

NO.	ITEM	QTY.	VOLTS	PHASE	AMPS	CIRCUIT	CABLE/CONDUIT	DISCONNECT/RECEPTACLE	FUSE	REMARKS
1	AHU–2	1	208	1	0.35	PP4–27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
2	AHU–3	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
3	EF–3	1	120	1	2.6	PP4– 31	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
4	EF–4	1	120	1	2.6	PP4– 31	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
5	AHU–4	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
6	BCC	1	208	1	1.63	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
7	AHU–9	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
8	AHU–7A	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
9	AHU–6	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
10	AHU–7B	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
11	AHU–11	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
12	AHU–10	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
13	AHU–12A	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
14	AHU–12B	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
15	AHU–13	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
16	AHU–15	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
17	AHU–14	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
18	AHU–16	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
19	AHU–8	1	208	1	0.35	PP4– 28,30	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
20	BCC–1B	1	120	1	.	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
21	AHU–17	1	208	1	0.35	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
22	AHU–33D	1	120	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
23	P–1	1	120	1	1	PP3–17	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
24	WH–1	1	208	1	27	PP3–16,18	(2)#8,(1)#10 GRD–3/4"C	HEAVY DUTY, 240V, 60A, 2 POLE, NEMA 1, NONFUSED	N/A	.
25	BCC	1	208	1	1.63	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
26	AHU–19A	1	208	1	0.35	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
27	AHU–19B	1	208	1	0.35	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
28	AHU–20	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
29	AHU–35	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
30	AHU–36	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
31	AHU–21	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
32	AHU–22	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
33	NOT USED	.	.	.	.		.	.	.	.
34	AHU–23	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
35	AHU–18	1	208	1	0.35	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
36	AHU–24	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
37	AHU–25	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
38	AHU–26	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
39	AHU–27	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
40	AHU–32	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
41	AHU–28	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
42	AHU–29	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
43	AHU–30	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
44	AHU–31	1	208	1	0.35	PP1– 35,37	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
45	AHU–33A	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
46	AHU–33B	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
47	AHU–33C	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
48	AHU–34A	1	208	1	0.35	PP1– 36,38	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
49	NOT USED	.	.	.	.	.	.	.	.	.
50	AHU–5	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
51	BCC–2A	1	208	1	1.63	PP3– 2,4	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
52	NOT USED									
53	HEAT TAPE	1	120	1	20	PP2– 9	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
54	WH–1	1	208	1	39	PP2– 9,11	(2)#8,(1)#10 GRD–3/4"C	HEAVY DUTY, 240V, 60A, 2 POLE, NEMA 1, NONFUSED	N/A	.
55	WH–1	1	208	1	39	PP2– 8,10	(2)#8,(1)#10 GRD–3/4"C	HEAVY DUTY, 240V, 60A, 2 POLE, NEMA 1, NONFUSED	N/A	.
56	P–1, P–3	23	120	1	FRAC.	*	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
57	AHU–44	1	208	1	0.35	PP4– 27,29	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.

* = REFER TO PANEL SCHEDULE SHEET E4.2 FOR CIRCUITS

EQUIPMENT SCHEDULE – ELECTRICAL (THIS SHEET ONLY) E1.4

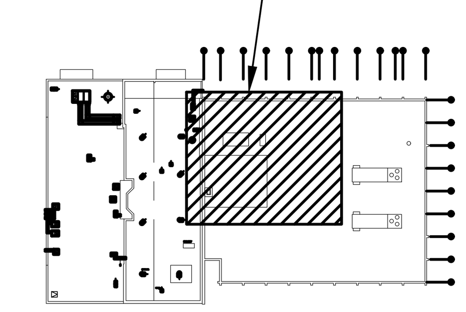
NO.	ITEM	QTY.	VOLTS	PHASE	AMPS	CIRCUIT	CABLE/CONDUIT	DISCONNECT/RECEPTACLE	FUSE	REMARKS
1	AHU–1	1	208	3	42.7	PP5–3,5,7	(3)#6,(1)#10 GRD–1"C	HEAVY DUTY, 240V, 60A, 3 POLE, NEMA 3R, FUSED	50A	.
2	VRF–1 –MOD 1	1	208	3	60	PP5–4,6,8	(3)#4,(1)#8 GRD–1 1/4"C	HEAVY DUTY, 240V, 100A, 3 POLE, NEMA 3R, FUSED	60A	.
	VRF–1 –MOD 2	1	208	3	54	PP5–9,11,13	(3)#4,(1)#8 GRD–1 1/4"C	HEAVY DUTY, 240V, 100A, 3 POLE, NEMA 3R, FUSED	60A	
3	VRF–2 – MOD 1	1	208	3	60	PP5–10,12,14	(3)#4,(1)#8 GRD–1 1/4"C	HEAVY DUTY, 240V, 100A, 3 POLE, NEMA 3R, FUSED	60A	.
	VRF–2 – MOD 2	1	208	3	54	PP5–15,17,19	(3)#4,(1)#8 GRD–1 1/4"C	HEAVY DUTY, 240V, 100A, 3 POLE, NEMA 3R, FUSED	60A	
4	DOAS–1	1	208	3	47	PP5–16,18,20	(3)#6,(1)#10 GRD–1"C	HEAVY DUTY, 240V, 60A, 3 POLE, NEMA 3R, FUSED	50A	
5	CONTROL PANEL	1	120	1	5	PP5–2	(2)#12,(1)#12 GRD–3/4"C	N/A	N/A	COORDINATE LOCATION WITH HVAC
6	P–1	1	208	1	6.9	PP5–21,23	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
7	RF–1	1	208	3	17	PP5–22,24,26	(2)#10,(1)#10 GRD–3/4"C	N/A	N/A	VFD PROVIDED WITH FAN
8	SNOW SENSOR	2	120	1	5	PP5–25	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	CONNECTED TO VRF–1, VRF–2
9	P–2	1	120	3	5.8	PP5–28	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
10	P–3	1	120	1	5.8	PP5–28	(2)#12,(1)#12 GRD–3/4"C	20A MOTOR SNAP SWITCH	N/A	.
11	(E) WH	1	208	1	20	PP5–27,29	(E) CIRCUIT	(E) FEEDER AND CIRCUIT	N/A	USE EXISTING FEEDER AND CIRCUIT



PART ROOF PLAN – POWER – NEW
SCALE: 1/8" = 1'–0"

SHEET NOTES:

1. REFER TO SHEET E4.2 FOR PANEL SCHEDULES



KEY PLAN
NO SCALE

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1	06–04–18	AS–BUILTS

NORTH

REVISION

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17	RFP #44	11–10–15
18	RFI #95	05–05–16
19	RFP #46	06–01–16
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7	RFP–13	01–21–15

REVISION

NO.	DESCRIPTION	DATE
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RHL No. 13208 FIRST FLOOR RENOVATIONS

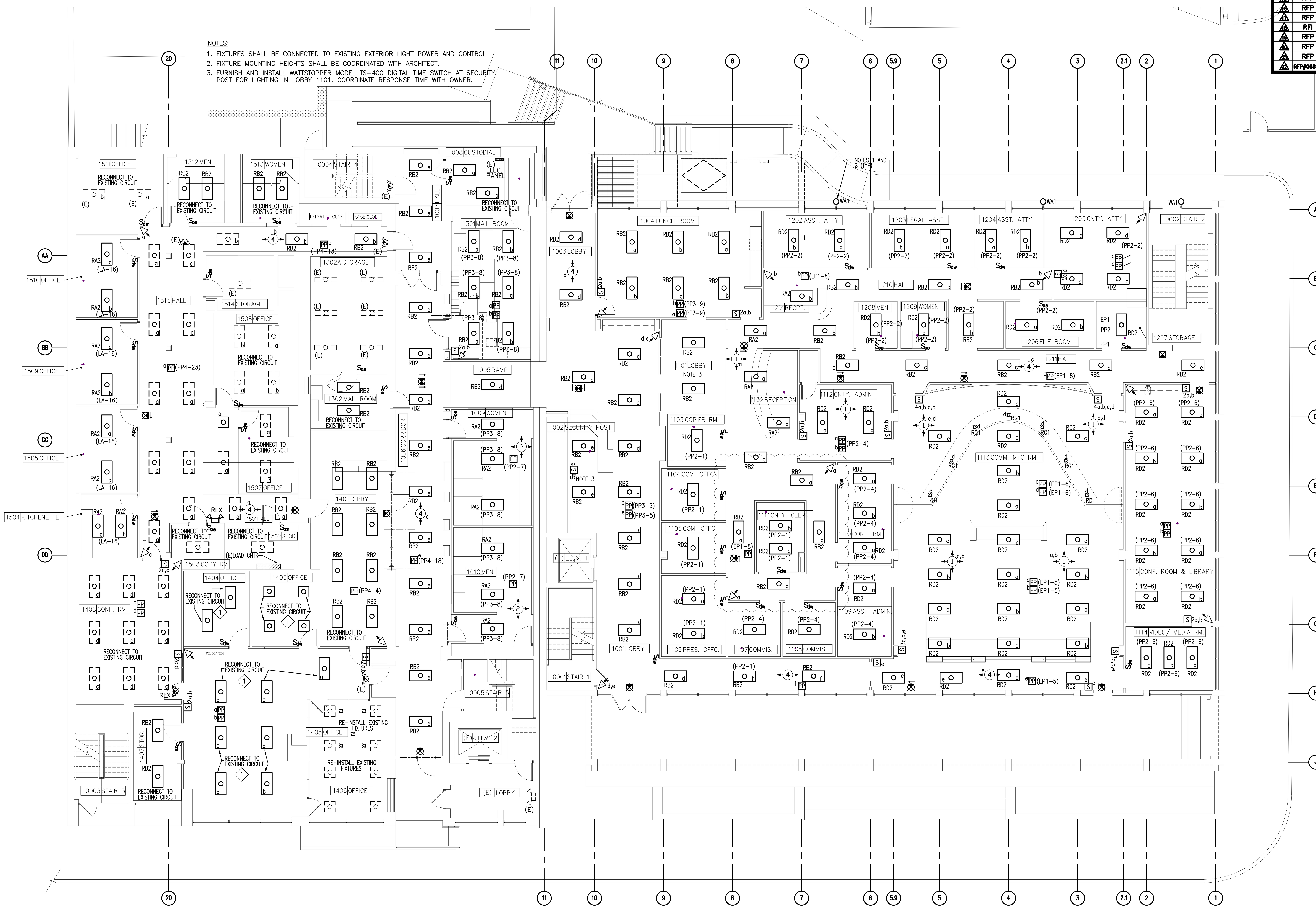
ROOF PLAN
POWER – NEW

E1.4

7 OF 14 SHEETS

DATE : 08.15.14

NOTES:
1. FIXTURES SHALL BE CONNECTED TO EXISTING EXTERIOR LIGHT POWER AND CONTROL
2. FIXTURE MOUNTING HEIGHTS SHALL BE COORDINATED WITH ARCHITECT.
3. FURNISH AND INSTALL WATTSTOPPER MODEL TS-400 DIGITAL TIME SWITCH AT SECURITY POST FOR LIGHTING IN LOBBY 1101. COORDINATE RESPONSE TIME WITH OWNER.



FIRST FLOOR PLAN - LIGHTING

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

DRAWING NOTES:

1. PROVIDE OWNER FURNISHED LIGHTING FIXTURE, INSTALLED BY CONTRACTOR. MAKE ALL FINAL CONNECTIONS.

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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1	06-04-18	AS-BUILTS

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20	RFP #54	06-01-16
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22	RFP#068 ASI#006	09-21-16

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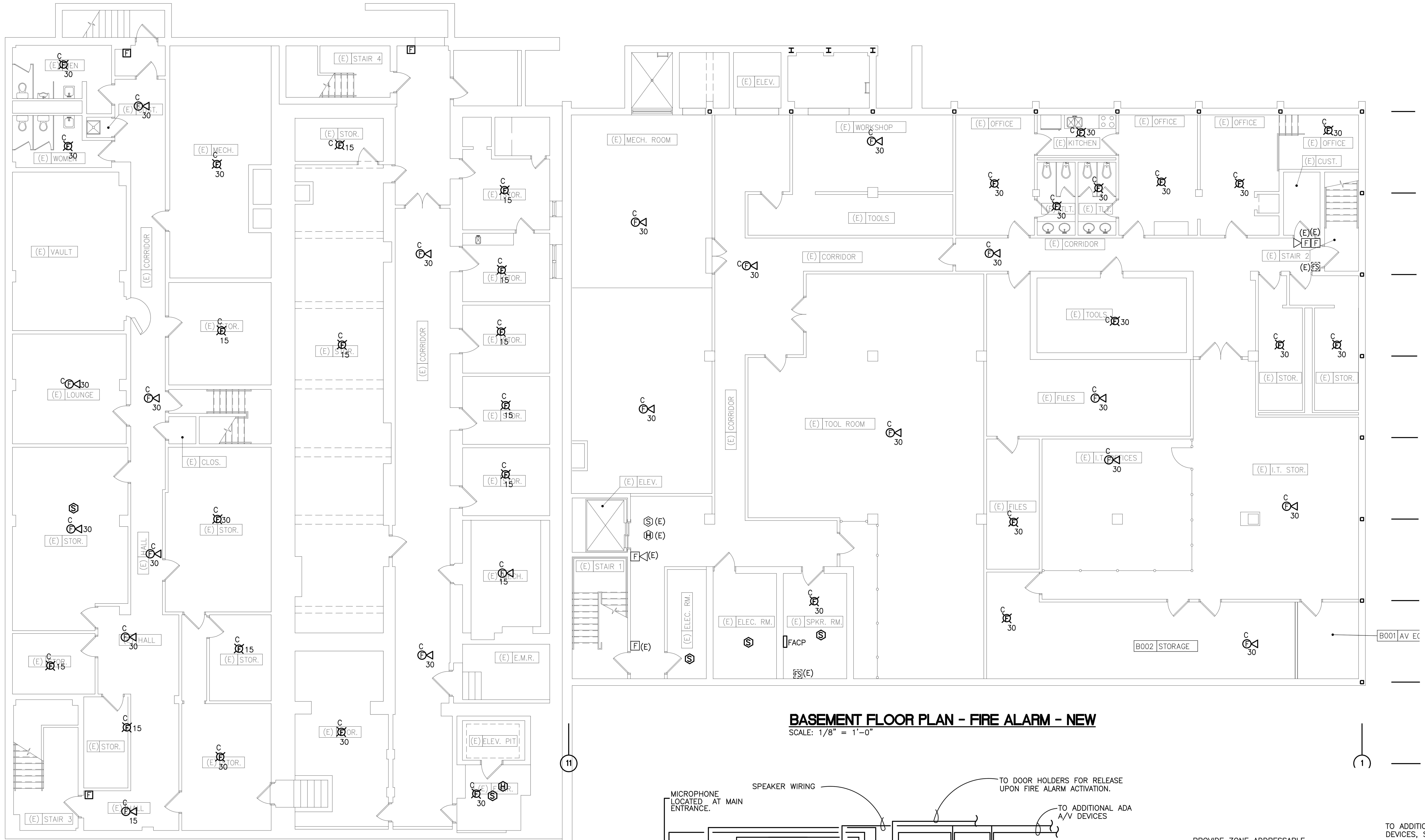
FIRST FLOOR PLAN - LIGHTING

E2.1

8 OF 14 SHEETS

DATE : 08.15.14



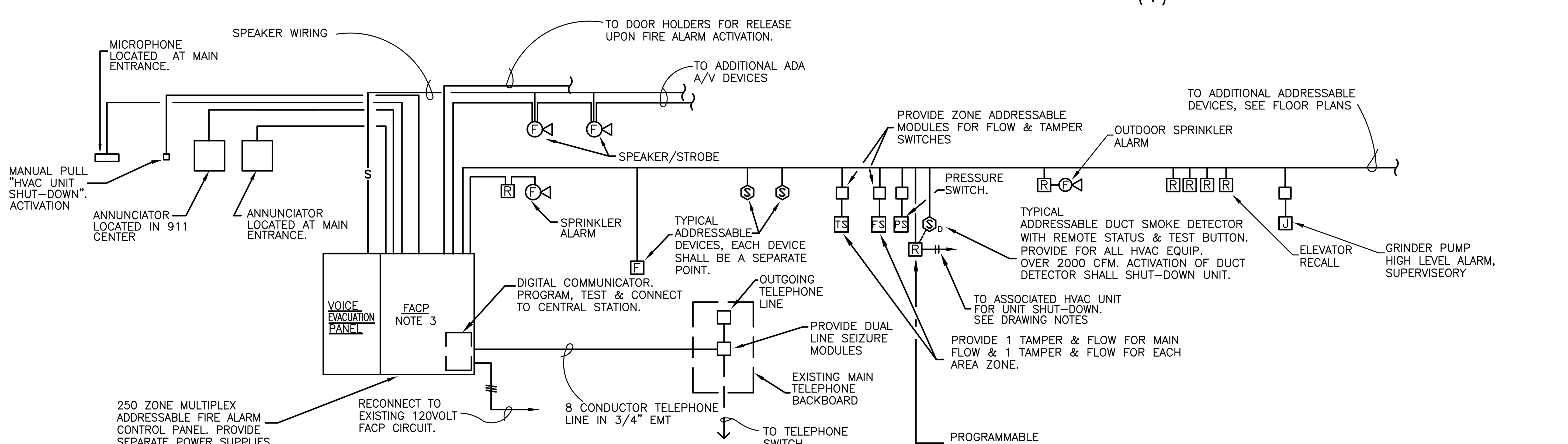
BASEMENT FLOOR PLAN - FIRE ALARM - NEW

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

FIRE ALARM LEGEND AND ABBREVIATIONS

1. COORDINATE LOCATIONS AND SIZES WITH EXISTING CONDITIONS.
2. UNLESS OTHERWISE NOTED, MOUNTING HEIGHTS ARE TO CENTER LINE OF EQUIPMENT.
3. WHERE APPLICABLE, MOUNTING HEIGHTS SHALL CONFORM TO HANDICAPPED CODE.

F	MANUAL PULL STATION, ADDRESSABLE, MOUNTED AT +48" AFF. (FIRE ALARM SYSTEM). LOCATE WITHIN 4' OF EXTERIOR DOORS.
TS	NEW CONTROL VALVE TAMPER SWITCH FOR SPRINKLER SUPERVISION SYSTEM PROVIDE A NEW TAMPER SWITCH FOR ALL EXISTING OS&Y AND SPRINKLER SYSTEM VALVES. (CONNECTED TO FIRE ALARM PANEL.)
FS	NEW FLOW SWITCH FOR SPRINKLER SUPERVISION SYSTEM (CONNECTED TO FIRE ALARM SYSTEM).
15 C F	COMBINATION SPEAKER AND ADA STROBE MOUNT 7'-0" AFF, ADJACENT NUMBER INDICATES MINIMUM STROBE INTENSITY (FIRE ALARM SYSTEM), AN ADJACENT "C" INDICATES CEILING MOUNTED.
15 C F	VISUAL ADA STROBE, MOUNT 7'-0" AFF (FIRE ALARM SYSTEM), AN ADJACENT "C" INDICATES CEILING MOUNTED.
H	HEAT DETECTOR, ADDRESSABLE.
S	SMOKE DETECTOR, PHOTOELECTRIC, ADDRESSABLE MOUNTED PER NFPA 72E (FIRE ALARM SYSTEM).
S_D	DUCT SMOKE DETECTOR, PHOTOELECTRIC, ADDRESSABLE FURNISHED & INSTALLED BY ELECTRICAL CONTRACTOR. (FIRE ALARM SYSTEM.)
D	NEW DOOR HOLDER, PROVIDE FLOOR OR WALL MOUNTED AS REQUIRED FOR SATISFACTORY OPERATION. (FIRE ALARM SYSTEM).
I	ADDRESSABLE MONITORING POINT
R	PROGRAMMABLE RELAY
F, F, S, H, F	EXISTING FIRE ALARM DEVICE, REMOVE AND REPLACE WITH NEW IN SAME LOCATION.
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
EC	EMPTY CONDUIT, PROVIDE PULL WIRE.
EMT	ELECTRICAL METALLIC TUBING
WP	WEATHERPROOF, TO SUIT INTENDED USAGE.
U.N.O.	UNLESS NOTED OTHERWISE



FIRE ALARM RISER

NO SCALE

NOTES:
1. ALL STROBES SHALL BE SYNCHRONIZED
2. CEILING MOUNTED STROBES SHALL HAVE A WHITE TRIM.
3. THE FIRE ALARM SYSTEM SHALL BE NON PROPRIETARY. WASHINGTON COUNTY SHALL RETAIN AND OWN THE CONTROL PANEL PROGRAMMING AND SHALL BE GIVEN ALL INFORMATION TO ALLOW THE CONTROL PANEL TO BE REPROGRAMMED BY WASHINGTON COUNTY MAINTENANCE DEPARTMENT. SYSTEMS THAT DO NOT MEET THIS REQUIREMENT ARE NOT ACCEPTABLE.

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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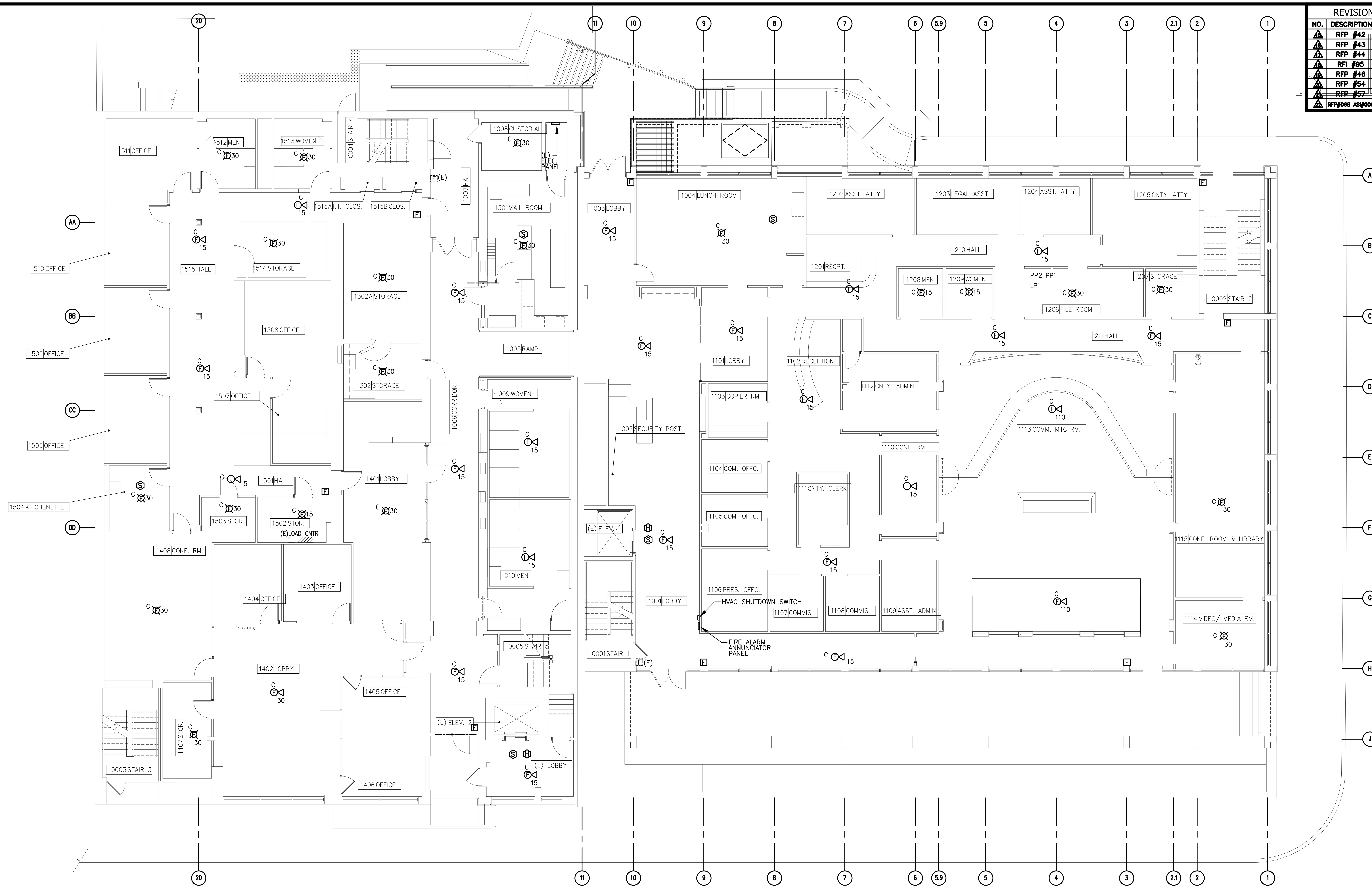
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN FIRE ALARM–NEW

E3.1

9 OF 14 SHEETS

DATE : 08.15.14



FIRST FLOOR PLAN - FIRE ALARM - NEW

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

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1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

△	06-04-18	AS-BUILTS

NORTH

FIRST FLOOR PLAN - FIRE ALARM-NEW

E3.2

10 OF 14 SHEETS

DATE : 08.15.14

SECOND FLOOR PLAN - FIRE ALARM - NEW

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

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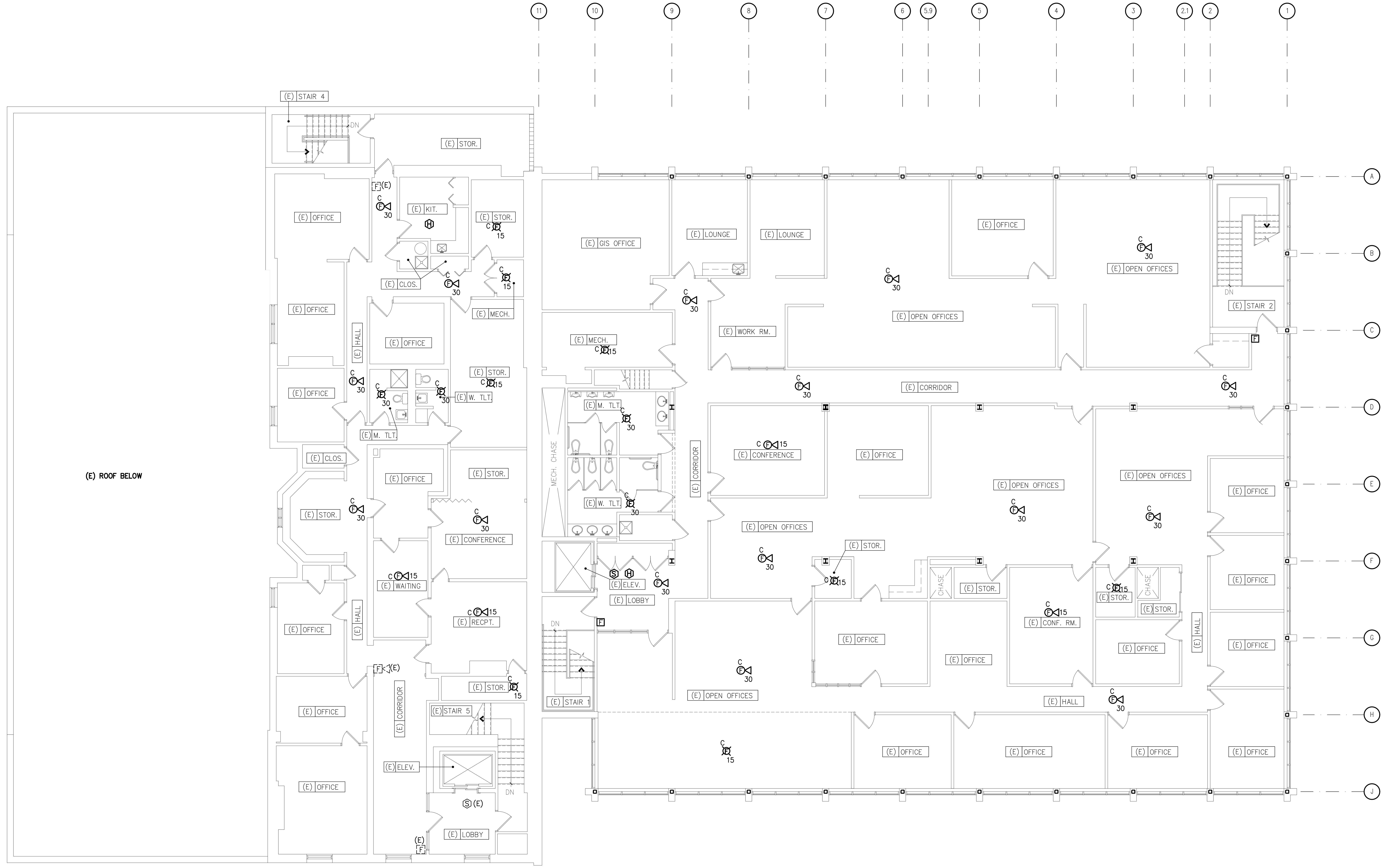
SECOND FLOOR PLAN
FIRE ALARM-NEW

E3.3

DATE : 08.15.14



THIRD FLOOR PLAN - FIRE ALARM - NEW

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

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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THIRD FLOOR PLAN
FIRE ALARM - NEW

E3.4

12 OF 14 SHEETS

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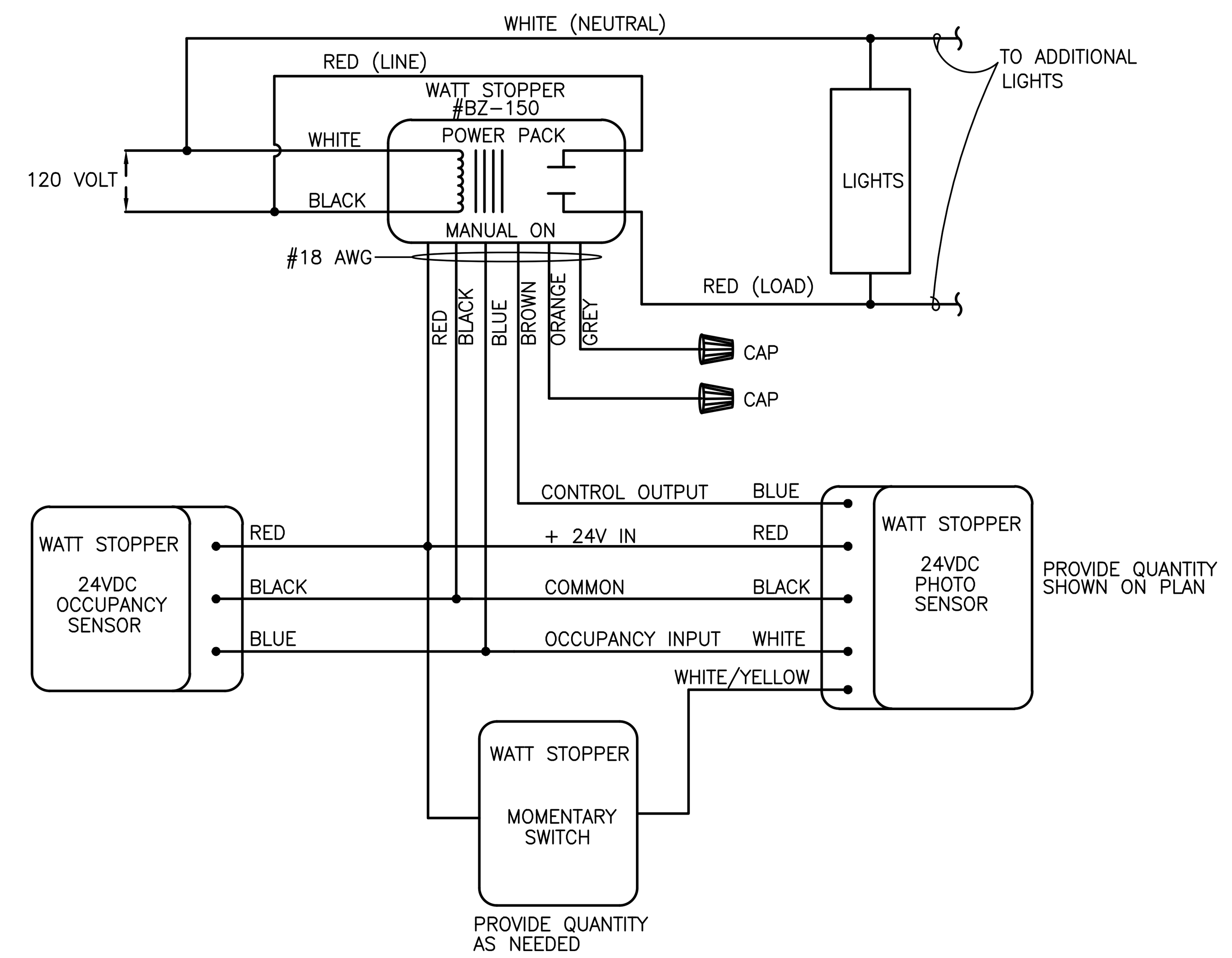
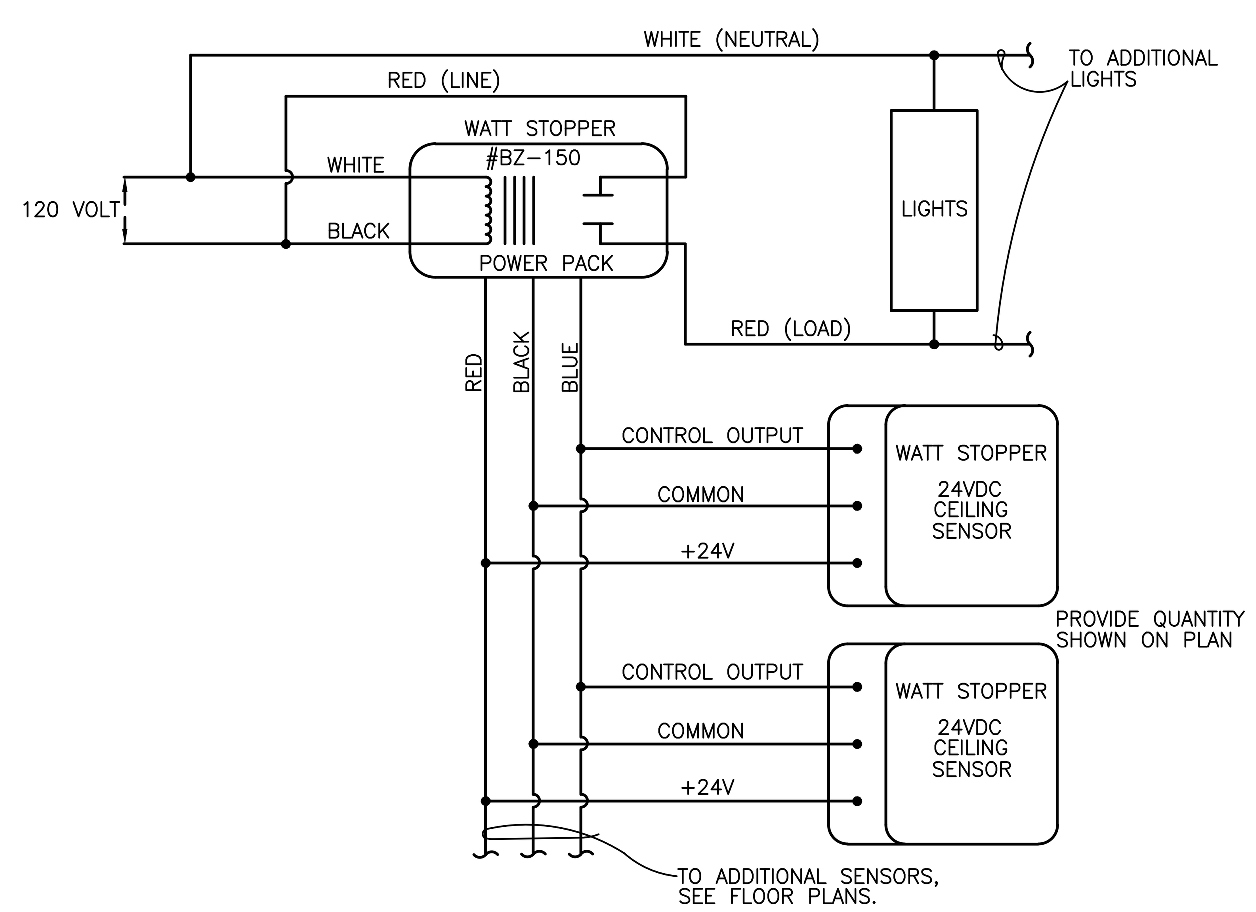


TYPICAL VACANCY/PHOTO SENSOR DIAGRAM

NO SCALE:



TYPICAL OCCUPANCY SENSOR DIAGRAM

NO SCALE:

NEW LIGHT FIXTURE SCHEDULE

R A 4
NUMBER OF LAMPS/FIXTURES
FIXTURE DESIGNATION
MOUNTING

R = RECESSED
S = SURFACE
P = PENDANT.CABLE
W = WALL
G = GROUND

TYPE	DESCRIPTION	MANUFACTURER	NAMED EQUAL	NOTES
RA2	2'x4' BLADE TROFFER	HE WILLIAMS BLG-D24-232-W28WW EB2-UNV	COLUMBIA LITHONIA	. . .
RB2	2'x4' GENERAL T8 TROFFER	HE WILLIAMS LPT-24-232U-S-A12125 -EB2-UNV	COLUMBIA LITHONIA	. . .
RC2	2'x2' GENERAL T8 TROFFER	HE WILLIAMS LPT-22-232-S-A12125 -EB2-UNV	COLUMBIA LITHONIA	. . .
RD2	2X4 LED TROFFER	HE WILLIAMS LT 24 L30835-AF- DIM-UNV	COLUMBIA LITHONIA	. . .
RF1	6" RECESSED HORIZONTAL LAMP DOWNLIGHT	HE WILLIAMS PH60-1-32T-CS-MB/ CGS-EB1-277	COLUMBIA LITHONIA	. . .
SA2	1X4 SURFACE WRAP FLUORESCENT	HE WILLIAMS 17-4-232-A-EB2-277 .	COLUMBIA LITHONIA	.
⊗	UNIVERSAL MOUNT EXIT SIGN	HE WILLIAMS . .	COLUMBIA LITHONIA	. . .
RA1	6" RECESSED DOWNLIGHT	HE WILLIAMS PH60-132T-CS-EB1-UNV .	COLUMBIA LITHONIA	
WA1	OUTDOOR WALL MOUNTED LED	COOPER INDUSTRIES EON 303-W1-LEDB1- 3000-UNV-T5X-BA	COLUMBIA LITHONIA	
RG1	6" LED DOWNLIGHT	HE WILLIAMS LED 60 0S15835 CS EDDOS-120	COLUMBIA LITHONIA	

LIGHTING CONTROL SCHEDULE

SYMBOL	MOUNTING	COVERAGE	SENSOR TYPE	VOLTAGE	MODEL NUMBER	TIME DELAY	REMARKS
2	CEILING	50'x40'	ULTRASONIC	24	WATT STOPPER W-2000A	30 MIN.	WALK TEST AND FIELD SET SENSITIVITY REQUIRES POWER PACK BZ-150 .
4	CEILING	60'x10'	ULTRASONIC	24	WATT STOPPER W-2000H	30 MIN.	WALK TEST AND FIELD SET SENSITIVITY REQUIRES POWER PACK BZ-150
	CEILING/WALL	CORNER, 50' RADIUS	PIR	24	WATT STOPPER CX-100	30 MIN.	WALK TEST AND FIELD SET SENSITIVITY REQUIRES POWER PACK BZ-150 .
S_{oc}	WALL SWITCH	18'Dx15'W MINOR MOTION 30'Dx30'W MAJOR MOTION	DUAL PIR/ ULTRASONIC	120V or 277V	WATT STOPPER DSW-100	30 MIN.	WALK TEST AND FIELD SET SENSITIVITY .
S_{dw}	WALL SWITCH	MINOR MOTION 30'Dx30'W MAJOR MOTION	DUAL PIR/ ULTRASONIC	120V or 277V	WATT STOPPER DW-200	30 MIN.	WALK TEST AND FIELD SET SENSITIVITY .
PP	JUNCTION BOX	N/A	N/A	120V or 277V	WATT STOPPER BZ-150	N/A	SET TO MANUAL ON FOR VACANCY 10 UNITS MAX CONNECTED
S^2	WALL SWITCH	N/A	N/A	24	WATT STOPPER DCC2	N/A	COORDINATE COLOR WITH ARCHITECT NUMBER INDICATES QUANTITY OF SWITCHES REQUIRED

NOTES:
1. OCCUPANCY SETTING FOR: RESTROOMS, STORAGE ROOMS, CORRIDORS
2. VACANCY SETTING FOR ALL OTHER ROOMS AS SHOWN.

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WASH. CO. ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS
BFM No. 14028
RHL No. 13208

ELECTRICAL SCHEDULES DETAILS & RISERS

E4.1

DATE : 08.15.14

PANELBOARD: "PP1"
BUS AMPACITY: 225
BRANCH BRKR. MTG. SPACE: 42 SPACE
MLO: MAIN BREAKER: 225
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: X RECESSED:
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE: 200A
ACCESSORIES:

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
RECEPS: RM: 1114	1	20/1	12	0.9	—	—	0.7	—	—	12	20/1	2	RECEPS: RM: 1115
RECEPS: RM: 1115	3	20/1	12	—	0.5	—	—	0.7	—	12	20/1	4	RECEPS: RM: 1208,1209,1211
RECEPS: RM: 1113	5	20/1	12	—	—	0.7	—	—	0.7	12	20/1	6	RECEPS: RM: 1113
RECEPS: RM: 1113	7	20/1	12	0.5	—	—		—	—		20/1	8	SPARE
RECEPS: RM: 1109	9	20/1	12	—	0.9	—	—	0.9	—	12	20/1	10	RECEPS: RM: 1108
RECEPS: RM: 1107,1111	11	20/1	12	—	—	1.1	—	—	0.9	12	20/1	12	RECEPS: RM: 1106
RECEPS: RM: 1105	13	20/1	12	0.9	—	—	0.9	—	—	12	20/1	14	RECEPS: RM: 1104
RECEPS: RM: 1102,1103	15	20/1	12	—	0.9	—	—	1.1	—	12	20/1	16	RECEPS: RM: 1111
RECEPS: RM: 1110	17	20/1	12	—	—	0.9	—	—	0.9	12	20/1	18	RECEPS: RM: 1112
RECEPS: RM: 1102	19	20/1	12	0.7	—	—		—	—			20	
RECEPS: RM: 1004	21	20/1	12	—	0.7	—	—		—			22	
SPARE	23	20/1		—	—		—	—	0.5	12	20/1	24	RECEPS: RM: 1201
RECEPS: RM: 1202	25	20/1	12	0.9	—	—	0.9	—	—	12	20/1	26	RECEPS: RM: 1203
RECEPS: RM: 1204	27	20/1	12	—	0.9	—	—	0.9	—	12	20/1	28	RECEPS: RM: 1205
RECEPS: RM: 1206,1207,1210	29	20/1	12	—	—	0.9	—	—				30	
SPARE	31	20/1			—	—	0.7	—	—	12	20/1	32	RECEPS: RM: 1001/1113A
SPARE	33	20/1		—		—	—		—		20/1	34	SPARE
AHU-18, 23-31/BCC	35	20/2	12	—	—	0.3	—	—	0.3	12	20/2	36	AHU-17,19-22,33-36/BCC
	37			0.3	—	—	0.3	—	—			38	
RECEPS: RM: 115 COFFEE MAKER	39	20/1	12	—	0.5	—	—		—		20/1	40	A/V RACK
DATA COPIER	41	20/1	12	—	—		—	—			20/1	42	A/V MONITORS
	43				—	—		—	—			44	
	45			—		—	—		—		20/1	46	LIBRARY DATA
	47			—	—		—	—			20/1	48	LIBRARY DATA
	49				—	—		—	—			50	
	51			—		—	—		—			52	
	53			—	—		—					54	
SUBTOTAL / PHASE				5.3	5.1	4.4	4.5	5.2	3.8				
TOTAL / PHASE				9.8	10.3	8.2							

PANEL SHALL BE FED FROM EXISTING SWITCHBOARD IN BASEMENT – CIRCUIT SHALL BE (4)#3/0, (1)#6 GRD-2"C

PANELBOARD: "PP2"
BUS AMPACITY: 225
BRANCH BRKR. MTG. SPACE: 42 SPACE
MLO: MAIN BREAKER: X
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: X RECESSED:
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE: 200A
ACCESSORIES:

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
LTG: RM: 1001,1002,1003,1101,1103,1104,1105,1106,1113A	1	20/1	12	1.3	—	—	1.3	—	—	12	20/1	2	LTG: RM: 1004,1202,1203,1204,1205,1206,1207,1208,1209
SPARE	3	20/1		—		—	—	1.3	—	12	20/1	4	LTG: RM: 1107,1108,1109,1110,1112,1113
SPARE	5	20/1		—	—		—	—	0.8	12	20/1	6	LTG: RM: 1113 "A"
SPARE	7	20/1			—	—	3.3	—	—	8	50/2	8	WH-1 RM1209
SPARE	9	20/1		—		—	—	3.3	—			10	
WH-1 RM 1208	11	50/2	8	—	—	3.3	—	—	1.0	12	20/1	12	SPARE
	13			3.3	—	—		—	—			14	
SPARE	15	20/1		—		—	—		—	8	20/2	16	STAIR HEATER, N.E. SIDE
AHU'S/BCC BASEMENT	17	20/2	12	—	—	.	—	—				18	
	19			.	—	—		—	—	12	20/1	20	LTS: N.E. STAIRS
	21			—	.	—	—		—			22	
	23			—	—	.	—	—	.			24	
	25			.	—	—	.	—	—			26	
	27			—	.	—	—	.	—			28	
	29			—	—	.	—	—	.			30	
	31			.	—	—	.	—	—			32	
	33			—	.	—	—	.	—			34	
	35			—	—	.	—	—	.			36	
	37			.	—	—	.	—	—			38	
	39			—	.	—	—	.	—			40	
	41			—	—	.	—	—	.			42	
SUBTOTAL / PHASE				5.6	3.2	4.3	7.9	7.9	5.1				
TOTAL / PHASE				13.5	11.1	9.4							

PANEL SHALL BE FED FROM EXISTING SWITCHBOARD IN BASEMENT – CIRCUIT SHALL BE (4)#3/0, (1)#6 GRD-2"C

PANELBOARD: "EP1"
BUS AMPACITY: 40
BRANCH BRKR. MTG. SPACE: 12 SPACE
MLO: MAIN BREAKER: X
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: X RECESSED:
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE:
ACCESSORIES:

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
RECEPS: 1113	1	20/1	12	0.7	—	—	0.7	—	—	12	20/1	2	RECEPS: 1113
RECEPS: 1113	3	20/1	12	—	0.5	—	—	0.7	—	12	20/1	4	RECEPS: 1113
LIGHTING: 1113	5	20/1	12	—	—	1.0	—	—	1.0	12	20/1	6	LIGHTING: 1113
LIGHTING: 1003, 1006	7	20/1	12	1.0	—	—	1.0	—	—	12	20/1	8	LIGHTING: 1111, 1210, 1211
LIGHTING: 1003, 1006	9	20/1	12	—	.	—	—	.	—	12	20/1	10	SPARE
SPARE	11	20/1	12	—	—	.	—	—	.	12	20/1	12	SPARE
SUBTOTAL / PHASE				1.7	0.5	1.0	1.7	0.7	1.0				
TOTAL / PHASE				3.4	1.2	2.0							

*PANEL SHALL BE FED FROM EXISTING EMERGENCY PANEL IN PENTHOUSE (4) #6, (1)#10 GRD-1"C

PANELBOARD: EXISTING RENAME "PP3"
BUS AMPACITY: XX
BRANCH BRKR. MTG. SPACE: 42 SPACE
MLO: X MAIN BREAKER:
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: X RECESSED: X
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE:
ACCESSORIES:

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
LTS: RM 1008	1	20/1	12	.	—	—	.	—	—	12	20/2	2	AHUS-17, 18,19A,19B, BCC 2A, 2B
LTS: RM 1008	3	35/2	8	—		—	—		—			4	
LTS: RM 1001,1002,1003	5			—	—		—	—		12	20/1	6	RECEPS: MAIL ROOM
RECEPS: 1009, 1010	7	20/1	12		—	—		—	—	12	20/1	8	LTS: MAILROOM, 1009, 1010
LTS: 1004	9	20/1	12	—		—	—		—	12	20/1	10	RECEPS: DEST 1002
FRIDGE	11	20/1	12	—	—		—	—	.	12	20/1	12	EWC
RM 1004 KIT RECEPS	13	20/1	12	.	—	—	.	—	—	12	20/1	14	RECEPS: RM 1002
RECEP: RM 1004	15	20/1	12	—	.	—	—	.	—	12	20/2	16	WH-1
P-1 RECIRC PUMP	17	20/1	12	—	—	.	—	—	.			18	.
DISHWASHER RM 1004	19	20/1	12	.	—	—	.	—	—	12	20/1	20	COPIER
.	21	20/1		—	.	—	—	.	—	12	20/1	22	COPIER
.	23	20/1		—	—	.	—	—	.		20/1	24	.
.	25	20/1		.	—	—	.	—	—		20/1	26	.
.	27	.	.	—	.	—	—	.	—	.	.	28	.
.	29	.	.	—	—	.	—	—	.	.	.	30	.
.	31	.	.	.	—	—	.	—	—	.	.	32	.
.	33	.	.	—	.	—	—	.	—	.	.	34	.
.	35	.	.	—	—	.	—	—	.	.	.	36	.
.	37	.	.	.	—	—	.	—	—	.	.	38	.
.	39	.	.	—	.	—	—	.	—	.	.	40	.
.	41	.	.	—	—	.	—	—	.	.	.	42	.
SUBTOTAL / PHASE													
TOTAL / PHASE													

PANELBOARD: "PP4"
BUS AMPACITY: 200
BRANCH BRKR. MTG. SPACE: 42 SPACE
MLO: MAIN BREAKER: X
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: RECESSED: X
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE: 200A
ACCESSORIES:

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
RECEPS: LOBBY	1	20/1	12	0.9	—	—	0.9	—	—	12	20/1	2	RECEPS: CONF 1408
RECEPS: OFFICE 1404	3	20/1	12	—	0.7	—	—	0.2	—	12	20/1	4	RECEPS: KITCHEN
RECEPS: KITCHEN	5	20/1	12	—	—	0.4	—	—	0.7	12	20/1	6	RECEPS: OFFICE 1505
RECEPS: OFFICE 1509	7	20/1	12	0.7	—	—	0.7	—	—	12	20/1	8	RECEPS: OFFICE 1510
RECEPS: OFFICE 1511	9	20/1	12	—	0.5	—	—	0.4	—	12	20/1	10	RECEPS: RESTROOMS
RECEPS: KITCHEN FRIDGE	11	20/1	12	—	—	0.5	—	—	0.9	12	20/1	12	RECEPS: OFFICE 1507
RELOCATED EXISTING LOADS	13	20/1	12	.	—	—	.	—	—	12	20/1	14	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	15	20/1	12	—	.	—	—	.	—	12	20/1	16	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	17	20/1	12	—	—	.	—	—	.	12	20/1	18	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	19	20/1	12	.	—	—	.	—	—	12	20/1	20	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	21	20/1	12	—	.	—	—	.	—	12	20/1	22	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	23	20/1	12	—	—	.	—	—	.	12	20/1	24	RELOCATED EXISTING LOADS
RELOCATED EXISTING LOADS	25	20/1	12	.	—	—	.	—	—	12	20/1	26	RELOCATED EXISTING LOADS
AHU'S-2,3,4,7A,6,7B,5	27	20/2	12	—	0.3	—	—	0.3	—	12	20/2	28	AHU'S-9,11,10,12A,12B,13,15,14,6,8
BCC'S – 1A/1B	29			—	—	0.3	—	—	0.3			30	
EF-3/4	31	20/1	12	0.3	—	—	0.7	—	—	12	20/1	32	RECEPT: COPIER – 1302 STORAGE
.	33	.	.	—	.	—	—	0.7	—	12	20/1	34	RECEPT: COPIER – 1501 HALL
.	35	.	.	—	—	.	—	—	.	.	.	36	.
.	37	.	.	.	—	—	.	—	—	.	.	38	.
.	39	.	.	—	.	—	—	.	—	.	.	40	.
.	41	.	.	—	—	.	—	—	.	.	.	42	.
SUBTOTAL / PHASE				2.1	1.5	1.2	2.3	1.6	1.9				
TOTAL / PHASE				4.4	3.1	3.1							

PANEL SHALL BE FED FROM EXISTING PANELBOARD CIRCUIT REMOVED FROM DEMOLITION IN BASEMENT – CIRCUIT SHALL BE (4)#3/0, (1)#6 GRD-2"C

PANELBOARD: "PP5"
BUS AMPACITY: 400
BRANCH BRKR. MTG. SPACE: 30 SPACE
MLO: MAIN BREAKER: X
PANEL MANUFACTURER: SQUARE-D
ISOLATED GROUND BAR:

VOLTAGE/PHASE: 120/208V, 3ø-4W
EQUIPMENT GROUND BAR: X
SURFACE MOUNTED: X RECESSED:
INTERRUPT CAPACITY: 10,000 AIC
FEEDER BREAKER SIZE:
ACCESSORIES: NEMA 3R

LOAD	CKT NO.	BKR A/P	WIRE SIZE	KW/PHASE A	KW/PHASE B	KW/PHASE C	KW/PHASE A	KW/PHASE B	KW/PHASE C	WIRE SIZE	BKR A/P	CKT NO.	LOAD
RECEPTACLE	1	20/1	12	0.2	—	—	0.5	—	—	12	20/1	2	CONTROL PANEL
	3			—	4.1	—	—	5.8	—			4	
AHU-1 SUPPLY FAN	5	60/3	6	—	—	4.1	—	—	5.8	4	80/3	6	VRF-1, MOD 1
	7			4.1	—	—	5.8	—	—			8	
	9			—	5.2	—	—	5.8	—			10	
VRF-1, MOD 2	11	80/3	4	—	—	5.2	—	—	5.8	4	80/3	12	VRF-2, MOD 1
	13			5.2	—	—	5.8	—	—			14	
	15			—	5.2	—	—	4.5	—			16	
VRF-2, MOD 2	17	80/3	4	—	—	5.2	—	—	4.5	6	50/3	18	DOAS-1
	19			5.2	—	—	4.5	—	—			20	
P-1	21	20/2	12	—	1.4	—	—	1.6	—			22	
	23			—	—	1.4	—	—	1.6	10	25/3	24	RF-1
SNOW SENSORS	25	20/1	12	1.0	—	—	1.6	—	—			26	
(E) WH	27	30/2	10	—	1.8	—	—	1.1	—	12	20/1	28	P-2/P-3
	29			—	—	1.8	—	—	.			30	
SUBTOTAL / PHASE				15.7	17.7	17.7	18.2	18.8	17.7				
TOTAL / PHASE				33.9	36.5	35.4							

*PANEL SHALL BE FED FROM EXISTING SWITCHBOARD IN BASEMENT (4)500 MCM, (1)#2 GRD-4"C

REVISION		
NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

RHL

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511 Expiration Date: 06/03/2016

REVISION		
NO.	DESCRIPTION	DATE
1	ADDENDUM#3	08-28-14
2	ADDENDUM#4	09-03-14
3	SEWER COORD.	11-03-14
4	SEWER COORD.	12-16-14
5	EXHAUST REV.	01-06-15
6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

REVISION		
NO.	DESCRIPTION	DATE
8	RFP #16	02-17-15
9	EA DUCT COORD.	02-17-15
10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

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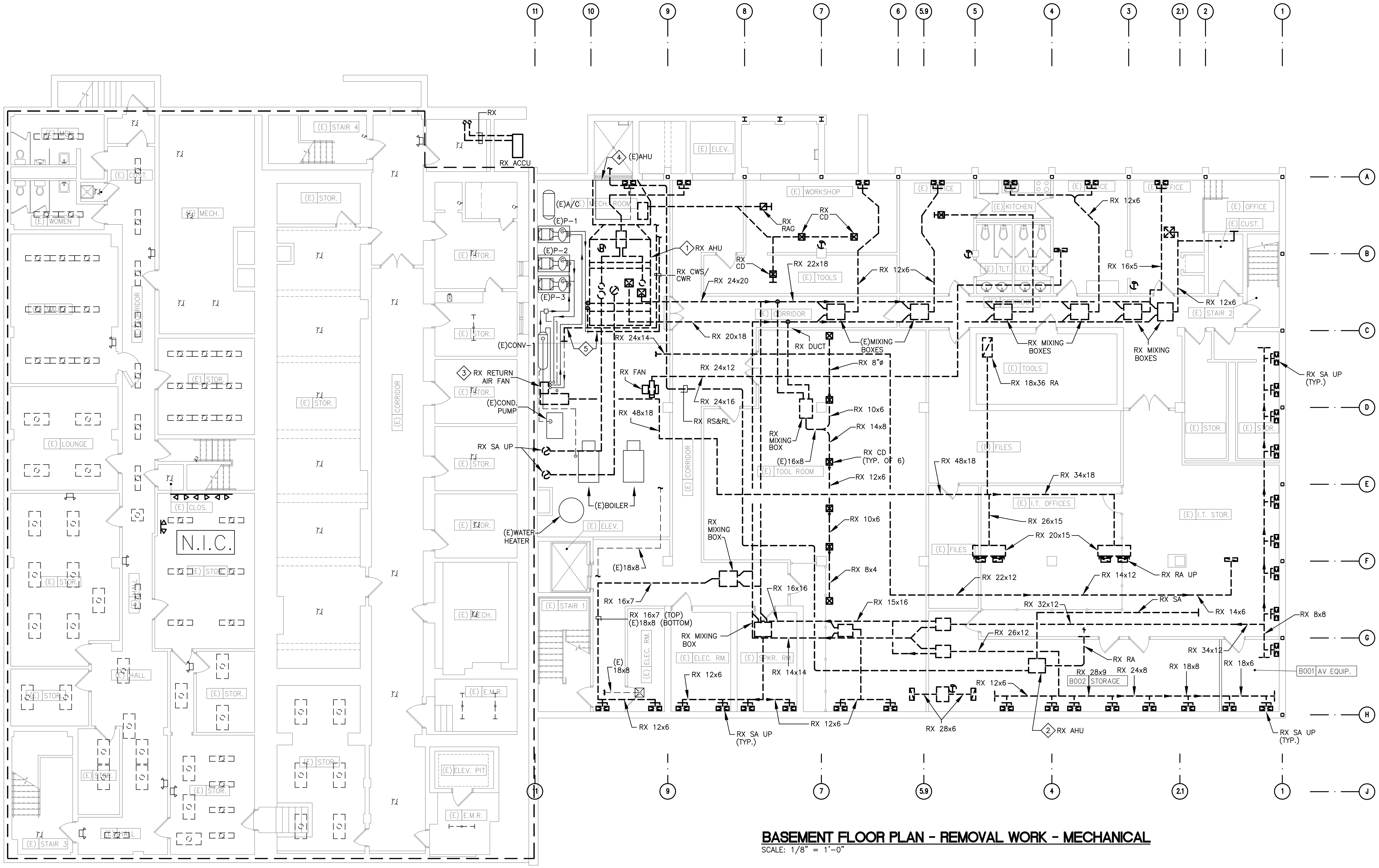
△	06-04-18	AS-BUILTS

NORTH

PANELBOARDS

E4.2

DATE : 08.15.14



BASEMENT FLOOR PLAN - REMOVAL WORK - MECHANICAL

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

DRAWING NOTES:

1. REMOVE EXISTING DUAL DUCT AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, VALVES, INSULATION, CONTROL TUBING, AND SUPPORTS.
2. REMOVE EXISTING SPLIT SYSTEM VERTICAL AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, FITTINGS, VALVES, INSULATION, CONTROL AND POWER WIRING, AND SUPPORTS.
3. REMOVE EXISTING RETURN AIR FAN AND ALL ASSOCIATED DUCTWORK, FITTINGS, INSULATION, CONTROLS, AND SUPPORTS.
4. EXISTING H&V UNIT MOUNTED IN CEILING TO REMAIN.
5. REMOVE EXISTING CHILLED WATER PIPING TO THE EXTENT INDICATED. PIPING WILL BE REUSED FOR NEW UNIT LOCATED IN PENTHOUSE.

THESE AS-BUILTS OR RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

	06-04-18	AS-BUILTS

NORTH

REVISION		
NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#088 ASI#006	09-21-16

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511 Expiration Date: 06/03/2016

REVISION		
NO.	DESCRIPTION	DATE
1	ADDENDUM#3	08-28-14
2	ADDENDUM#4	09-03-14
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10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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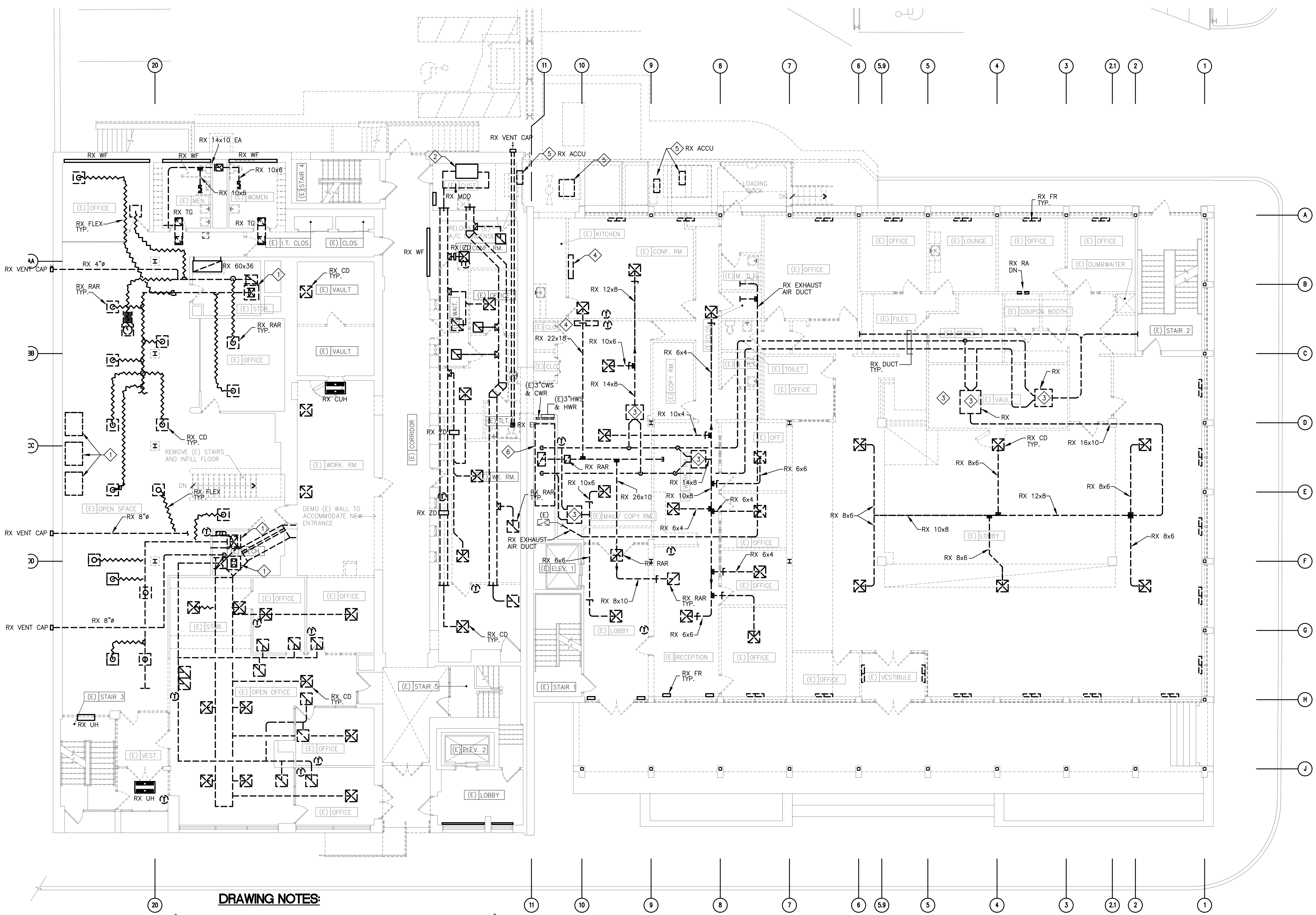
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN-REMOVAL WORK-MECHANICAL

M0.1

1 OF 12 SHEETS

DATE : 08.15.14



DRAWING NOTES:

1. REMOVE EXISTING VERTICAL SPLIT SYSTEM AIR HANDLING UNIT AND ASSOCIATED DUCTWORK, FITTINGS, INSULATION, PIPING, CONTROL WIRING AND SUPPORTS. REMOVE EXISTING REFRIGERANT PIPING FROM INDOOR UNIT UP TO OUTDOOR UNIT ON ROOF. REMOVE ASSOCIATED CONDENSING UNIT ON ROOF.
2. REMOVE EXISTING GAS FIRED FURNACE AND SPLIT SYSTEM COOLING COIL. REMOVE ALL ASSOCIATED DUCTWORK FITTINGS, INSULATION, PIPING, CONTROL WIRING AND SUPPORTS. REMOVE ASSOCIATED CONDENSING UNIT LOCATED ON GRADE.
3. REMOVE EXISTING DUAL DUCT TERMINAL UNIT AND ALL ASSOCIATED DUCTWORK, FITTINGS, INSULATION, CONTROLS, AND SUPPORTS.
4. REMOVE EXISTING SPLIT SYSTEM AIR CONDITIONING UNIT AND ALL ASSOCIATED PIPING, INSULATION, FITTINGS, CONTROLS, AND SUPPORTS. REMOVE ALL PIPING BETWEEN INDOOR UNIT AND OUTDOOR UNIT. REMOVAL OF ASSOCIATED AIR COOLED CONDENSING UNIT ON GRADE IS PERFORMED UNDER A SEPARATE CONTRACT.
5. REMOVE EXISTING AIR COOLED CONDENSING UNIT. AIR COOLED CONDENSING UNIT MAY BE IN AN ALTERNATE LOCATION DUE TO RELOCATION UNDER A SEPARATE CONTRACT. VERIFY OUTDOOR UNIT IS ASSOCIATED WITH AN INDOOR UNIT REMOVED UNDER THIS CONTRACT PRIOR TO REMOVAL.
6. REMOVE ALL ABANDONED DUCTWORK IN THE MECAHNICAL SHAFT FROM FIRST FLOOR, SECOND FLOOR, AND THIRD FLOOR UP TO PENTHOUSE.

FIRST FLOOR PLAN - REMOVAL WORK - MECHANICAL

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

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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	06-04-18	AS-BUILTS

NORTH

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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4	SEWER COORD.	12-16-14
5	EXHAUST REV.	01-06-15
6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

REVISION

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10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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WASH. CO. ADMINISTRATION COMPLEX
FIRST FLOOR RENOVATIONS

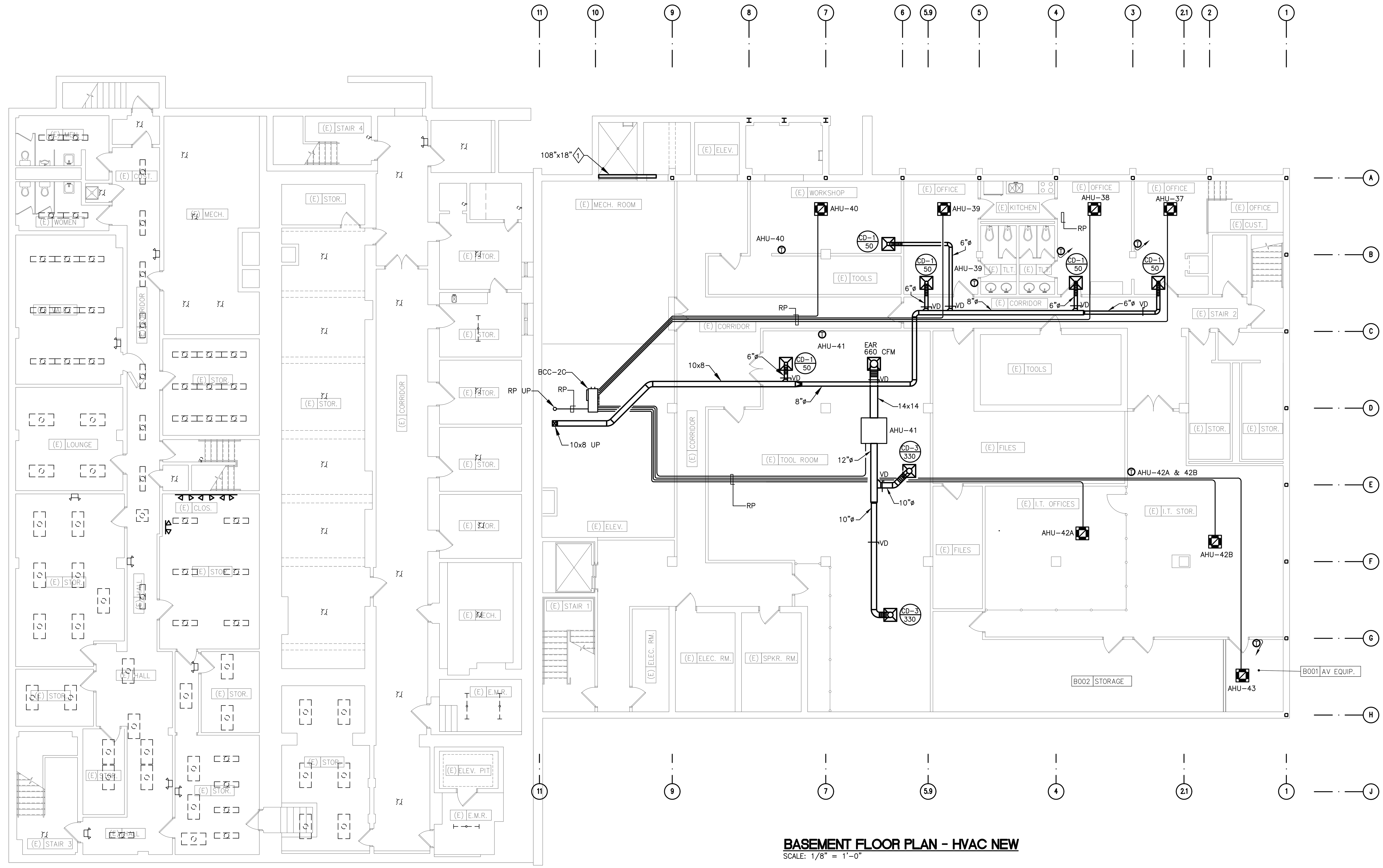
BFM No. 14028
RHL No. 13208

FIRST FLOOR PLAN REMOVAL WORK - MECHANICAL

M0.2

2 OF 12 SHEETS

DATE : 08.15.14



BASEMENT FLOOR PLAN - HVAC NEW

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

GENERAL NOTE:

G1. ALL REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER REQUIREMENTS.

DRAWING NOTES:

1 REMOVE AND REPLACE EXISTING LOUVER. PROVIDE NEW LOUVER AT THE SIZE INDICATED. PROVIDE RUSKIN MODEL: ELF6375DXH, OR APPROVED EQUAL. CONTRACTOR SHALL VERIFY EXISTING LOUVER FREE AREA IN FIELD. NEW LOUVER SHALL BE SELECTED AND SIZED TO MATCH THE EXISTING FREE AREA.

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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1	06-04-18	AS-BUILTS

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REVISION

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15	RFP #42	11-10-15
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17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
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22	RFP#068 ASI#006	09-21-16

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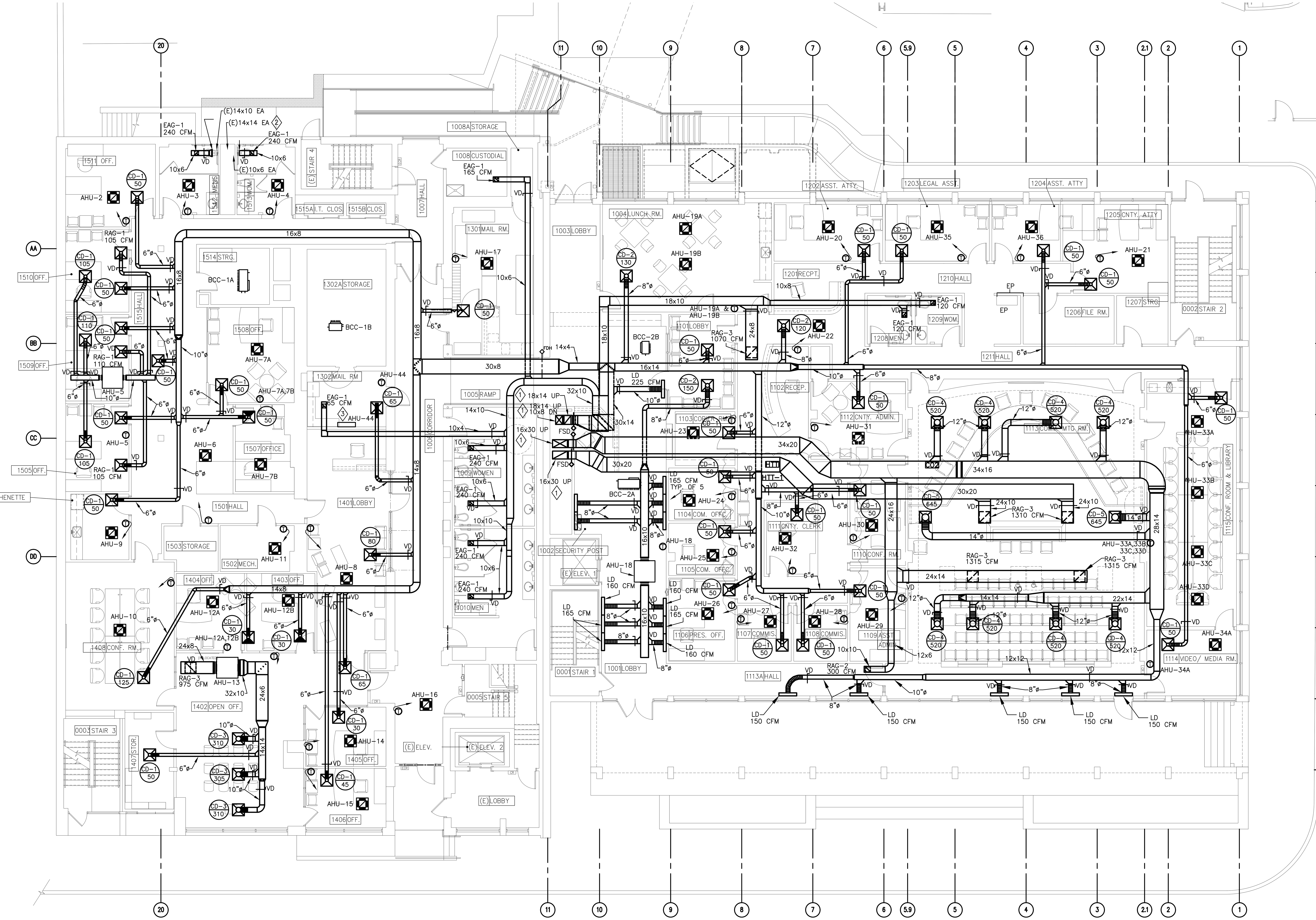
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN-HVAC NEW

M1.1

3 OF 12 SHEETS

DATE : 08.15.14



FIRST FLOOR PLAN - HVAC NEW

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

DRAWING NOTES:

1. DUCTWORK UP TO PENTHOUSE. INSTALL IN SPACE OF EXISTING REMOVED ABANDONED DUCTWORK. PROVIDE COMBINATION FIRE SMOKE DAMPER AT SHAFT. REFER TO DRAWING M1.3 FOR CONTINUATION.
2. PROVIDE TESTING OF EXISTING EXHAUST FAN ON SECOND FLOOR ROOF, AND OF ALL EXISTING AIR DEVICES SERVED BY EXHAUST FAN. CONNECT NEW DUCTWORK IN FIRST FLOOR CEILING TO EXISTING EXHAUST AIR DUCT UP IN CHASE.
3. CONTRACTOR SHALL COORDINATE EXACT LOCATION IN FIELD WITH OWNER AND ARCHITECT.

1/8" = 1'-0" 5 0 5 10 15 20 SCALE FEET

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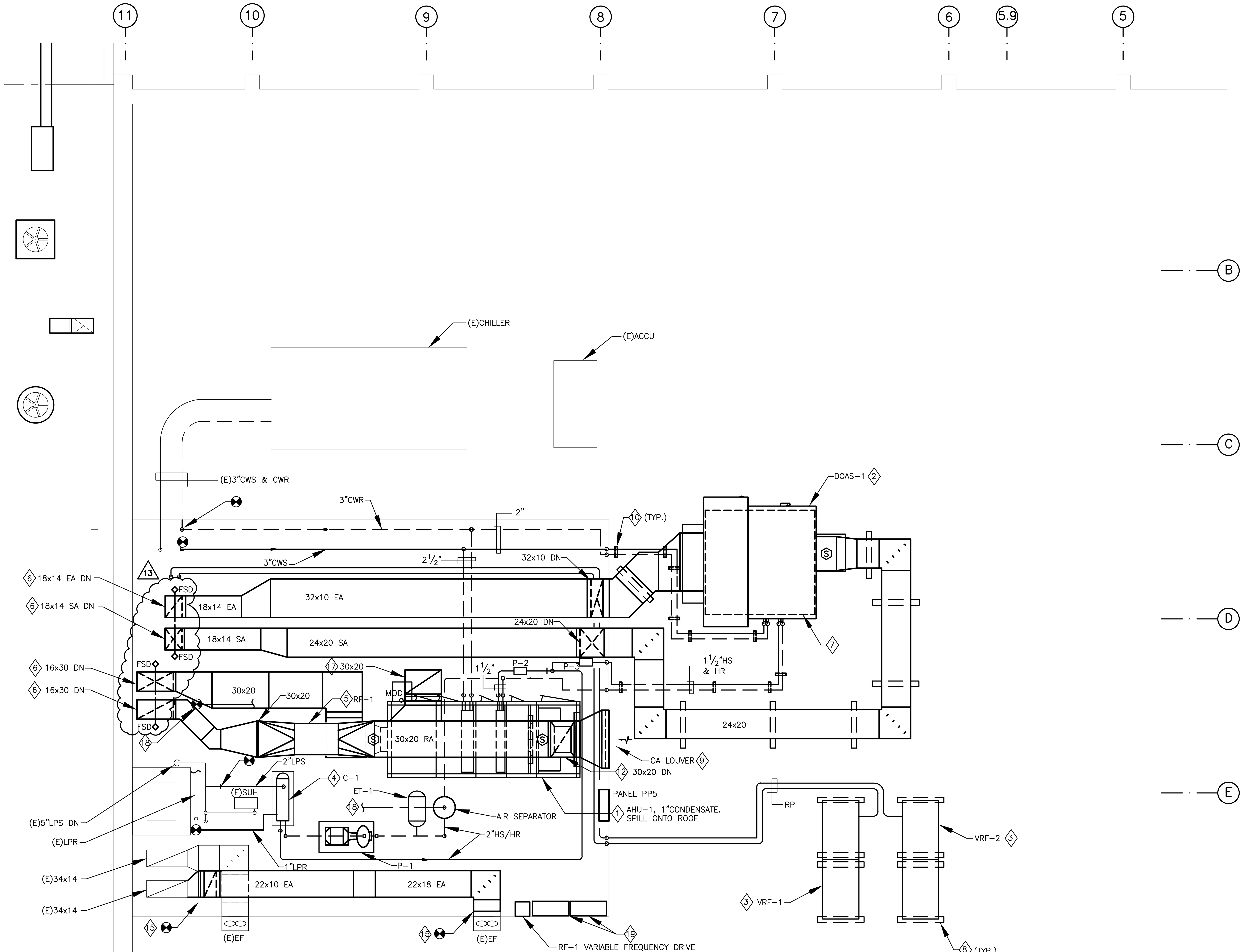
RHL No. 13208 FIRST FLOOR RENOVATIONS

FIRST FLOOR PLAN-HVAC NEW

M1.2

4 OF 12 SHEETS

DATE : 08.15.14



PART ROOF PLAN - MECHANICAL NEW

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

DRAWING NOTES:

1. PROVIDE MODULAR AIR HANDLING UNIT. PROVIDE 4" HIGH HOUSEKEEPING PAD UNDER EQUIPMENT. EXTEND THE PAD A MINIMUM OF 4" LARGER THAN THE EQUIPMENT SIZE.
2. PROVIDE ENERGY RECOVERY DEDICATED OUTDOOR AIR UNIT MOUNTED ON STRUCTURAL STEEL SUPPORT. INSTALL PER MANUFACTURER'S REQUIREMENTS.
3. PROVIDE VARIABLE REFRIGERANT FLOW HEAT PUMP. PROVIDE EQUIPMENT SUPPORT CURBS. INSTALL PER MANUFACTURER'S REQUIREMENTS.
4. PROVIDE STEAM-TO-WATER CONVERTER. PROVIDE 4"HIGH HOUSEKEEPING PAD UNDER EQUIPMENT. INSTALL PER MANUFACTURER'S REQUIREMENTS.
5. PROVIDE INLINE RETURN AIR FAN. INSTALL PER MANUFACTURER REQUIREMENTS. FAN SHALL INTEGRATE WITH AIR HANDLING UNIT (AHU-1) CONTROLS.
6. 13 EXTEND DUCTWORK DOWN IN CHASE TO FIRST FLOOR IN SPACE PROVIDED BY REMOVED ABANDONED DUCTWORK. PROVIDE COMBINATION FIRE SMOKE DAMPER AT SHAFT.
7. STEEL SUPPORT. REFER TO STRUCTURAL DIVISION FOR ADDITIONAL INFORMATION.
8. PROVIDE EQUIPMENT SUPPORT CURBS.
9. PROVIDE 48"x36" OUTDOOR AIR LOUVER.(RUSKIN MODEL: ELF6375DX, OR APPROVED EQUAL) TRANSITION FROM UNIT INTAKE OPENING TO LOUVER SIZE.
10. PROVIDE NON-PENETRATING PIPE SUPPORT. PROVIDE ALL HARDWARE REQUIRED TO SUPPORT PIPING. ERICO CADDY, OR APPROVED EQUAL.
11. PROVIDE NON-PENETRATING DUCT ROOF SUPPORT AND ALL REQUIRED HARDWARE TO SUPPORT DUCT. ERICO CADDY, OR APPROVED EQUAL.
12. TRANSITION RETURN AIR DUCT DOWN AND CONNECT TO AIR HANDLING UNIT RETURN AIR CONNECTION.(APPROX. 46"x16")
13. REMOVE EXISTING ABANDONED ELECTRICAL EQUIPMENT AND ALL ASSOCIATED CABLE TRAYS, WIRING, SWITCHES, PANELS AND SUPPORTS.
14. REMOVE EXISTING ABANDONED VERTICAL AIR HANDLING UNIT AND ALL ASSOCIATED DUCTWORK, PIPING, INSULATION, CONTROL WIRING, POWER WIRING, AND SUPPORTS. REMOVE ASSOCIATED OUTDOOR UNIT.
15. INSTALL DUCT AS HIGH AS POSSIBLE, AND CONNECT TO EXISTING MAIN DUCT, AND TO EXISTING EXHAUST FAN. COORDINATE EXACT ROUTE IN FIELD TO ACCOMMODATE EXISTING PANEL CLEARANCES. BALANCE TO PRE-DEMOLITION AIRFLOW DATA.
16. PROVIDE PRE-DEMOLITION TESTING OF EXISTING EXHAUST AIR FAN.
17. EXTEND RELIEF AIR DUCT UP THROUGH ROOF AND TERMINATE WITH GOOSENECK.
18. EXTEND DOMESTIC COLD WATER FROM EXISTING 2" RISER TO MAKE-UP WATER CONNECTION.
19. PROVIDE AUTOMATIC CONTROL PANEL.

GENERAL NOTES:

G1. HEAT TRACE ALL PIPING EXPOSED OUTSIDE OF PENTHOUSE. HEAT TRACING SHALL BE PROVIDED UNDER ELECTRICAL DIVISION.

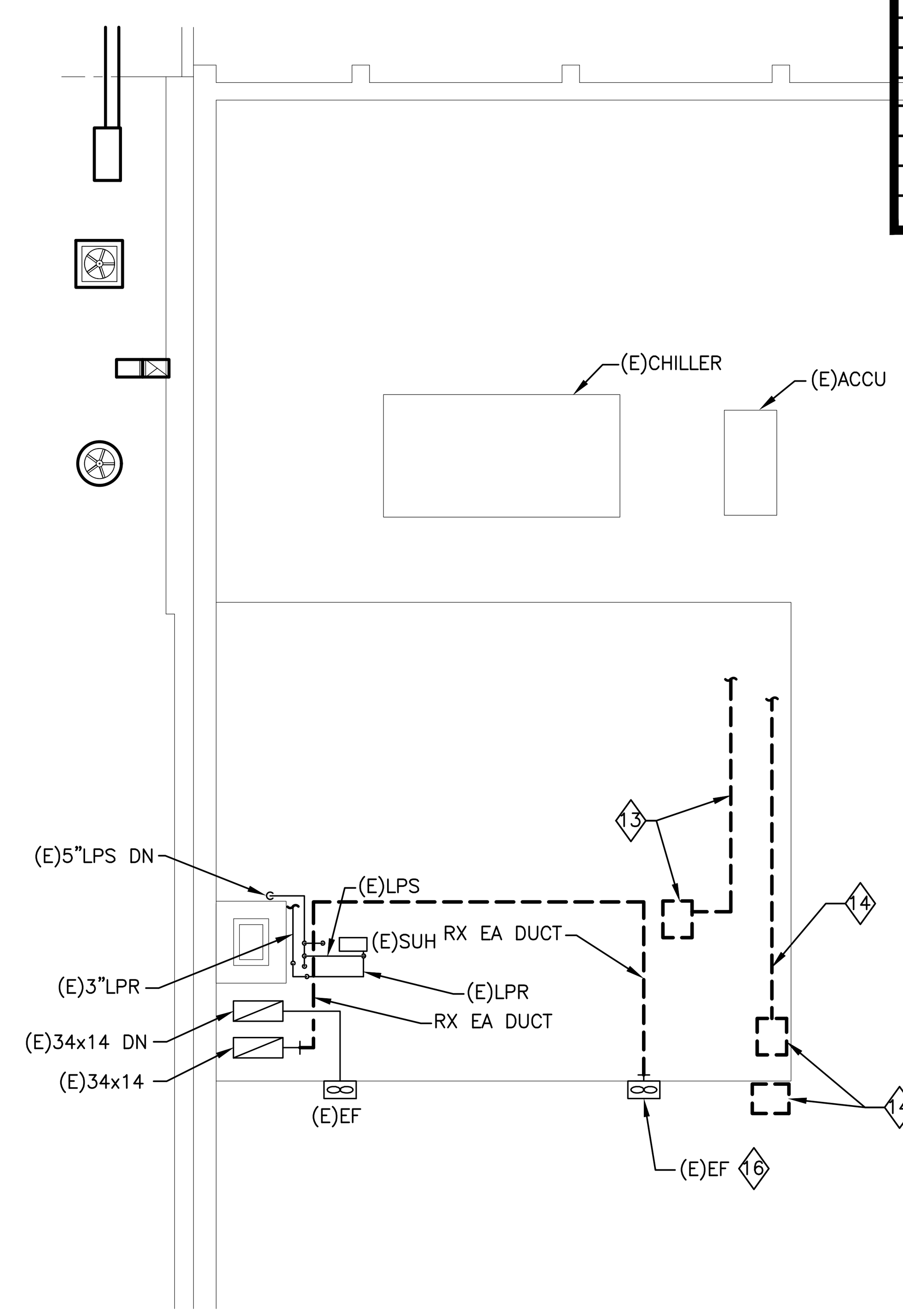
G2. ALL REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S REQUIREMENTS.

G3. REFER TO SCHEDULES, DETAILS, AND AUTOMATIC TEMPERATURE CONTROL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

G4. PROVIDE ALL EQUIPMENT CLEARANCES PER MANUFACTURER'S REQUIREMENTS.

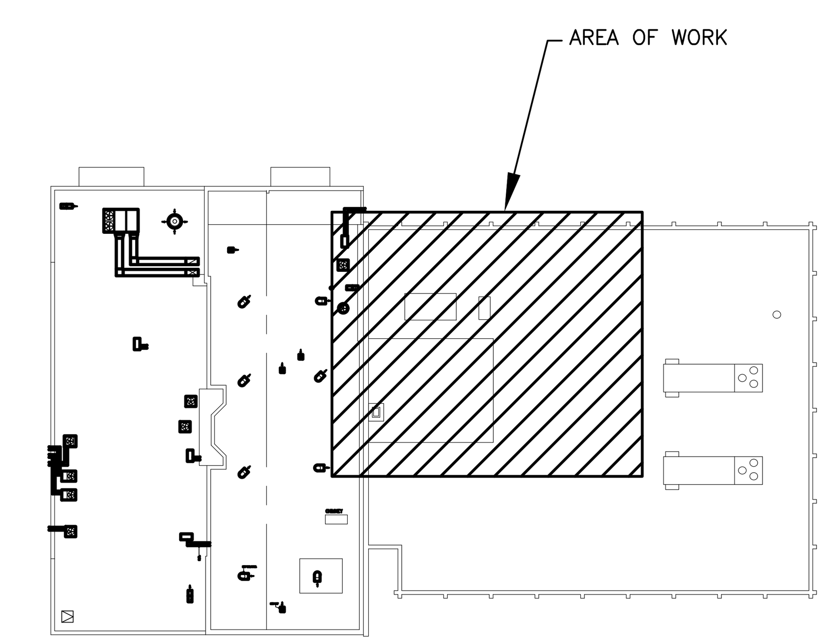
G5. INSTALL ALL PIPING AND DUCTWORK AS HIGH AS POSSIBLE.

1/4" = 1'-0" 2 0 2 4 6 8 10 SCALE FEET



PART ROOF PLAN - MECHANICAL DEMO

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



KEY PLAN

NO SCALE

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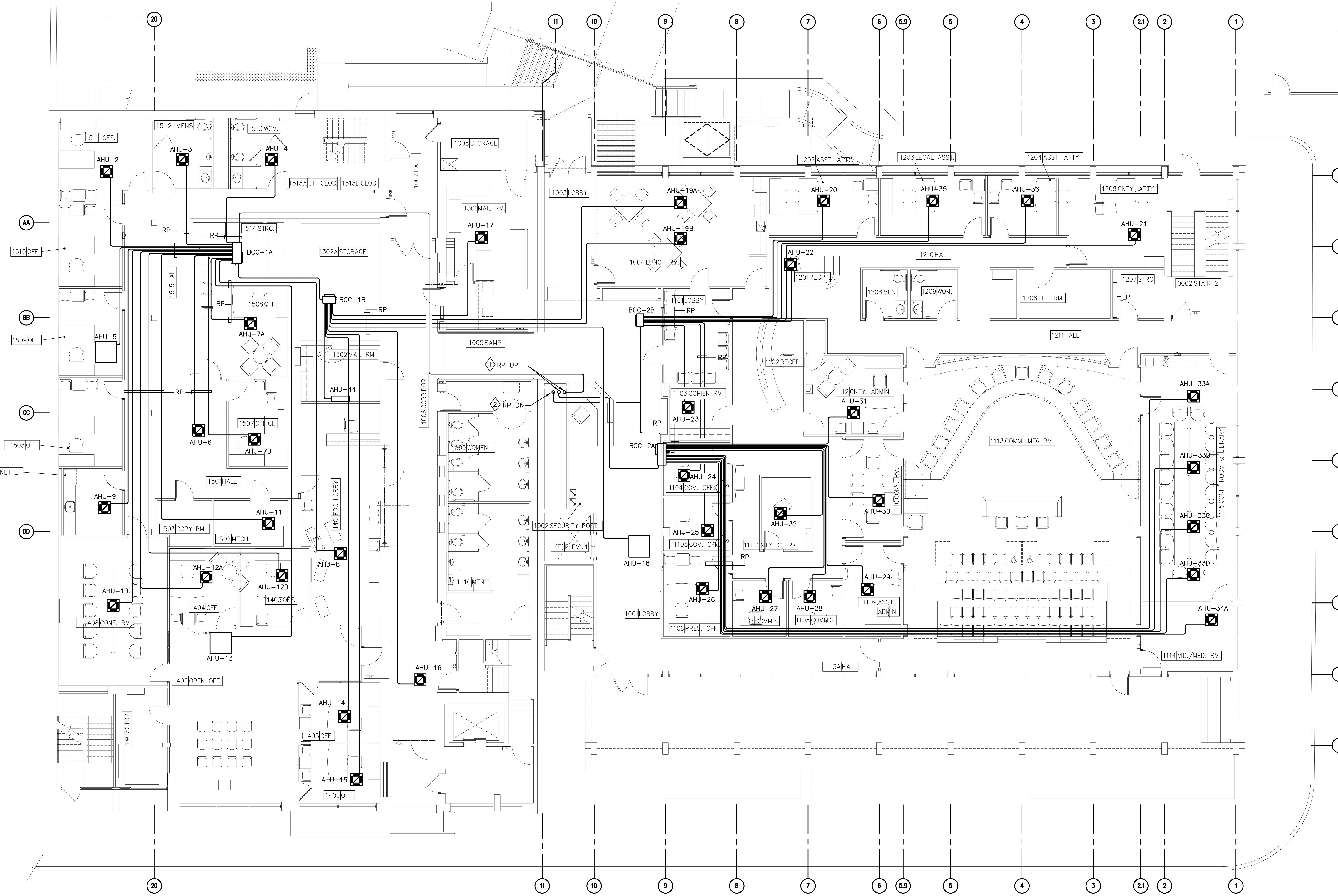
PART ROOF PLAN MECHANICAL- DEMO & NEW

M1.3

5 OF 12 SHEETS

DATE : 08.15.14



FIRST FLOOR PLAN - REFRIGERANT PIPING

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

1. REFRIGERANT PIPING UP IN CHASE TO VARIABLE REFRIGERANT FLOW HEAT PUMPS ON THIRD FLOOR ROOF. REFER TO M1.3 FOR CONTINUATION.
2. REFRIGERANT PIPING DOWN IN CHASE TO BASEMENT LEVEL. REFER TO M1.1 FOR CONTINUATION.

GENERAL NOTES:

G1. ALL REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S REQUIREMENTS.

G2. PROVIDE ALL REQUIRED CLEARANCES PER MANUFACTURER'S REQUIREMENTS.

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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FIRST FLOOR REFR. PIPING

M1.4

6 OF 12 SHEETS

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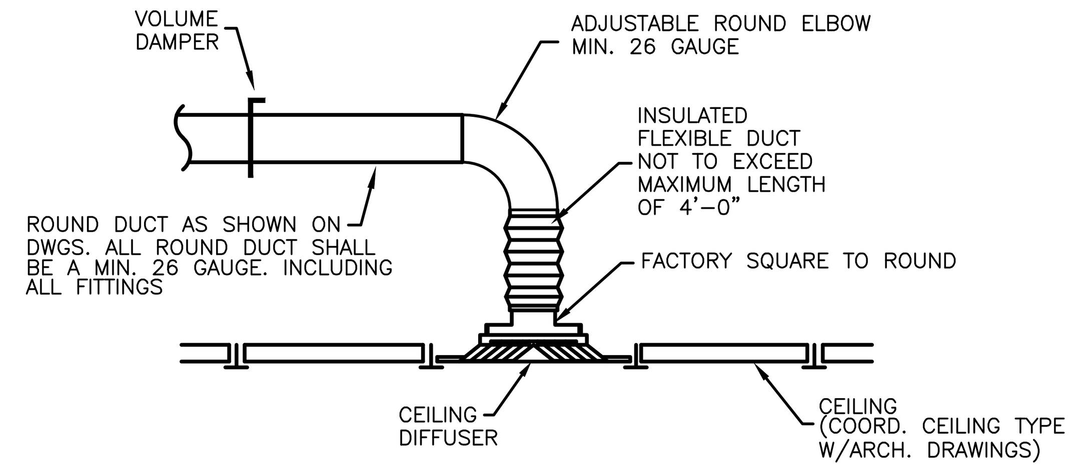
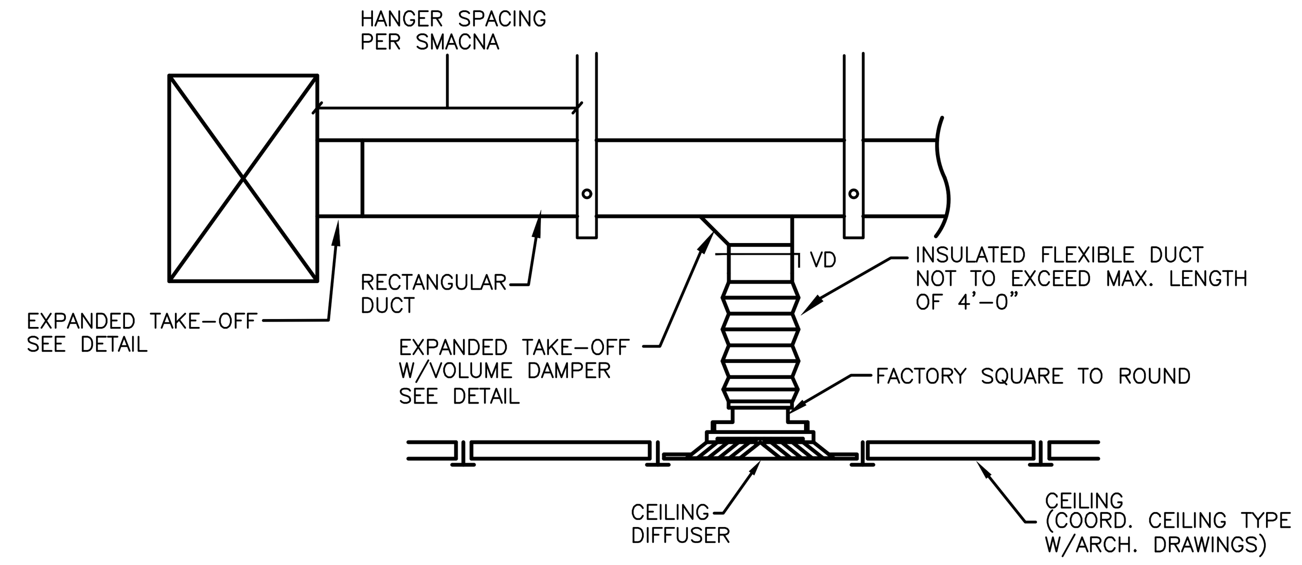
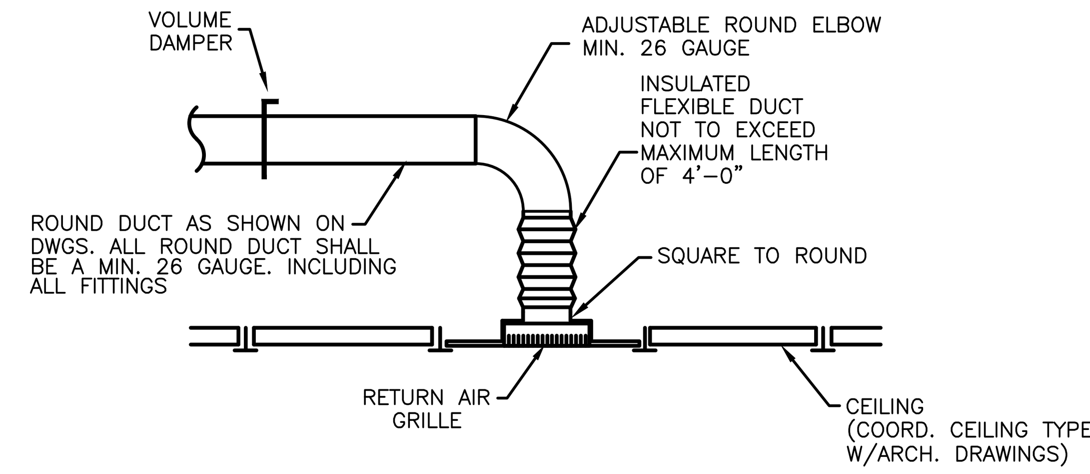


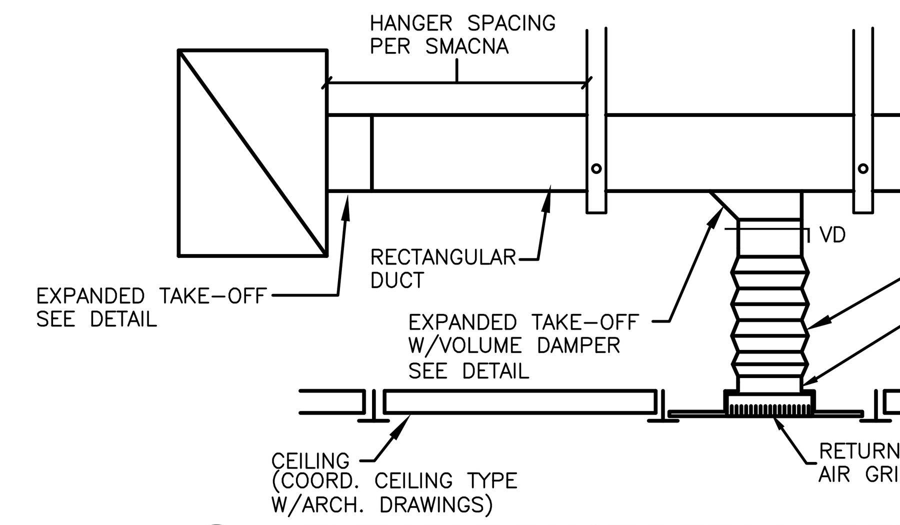
1 M2.1 FLEXIBLE DUCT DETAIL - SUPPLY
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



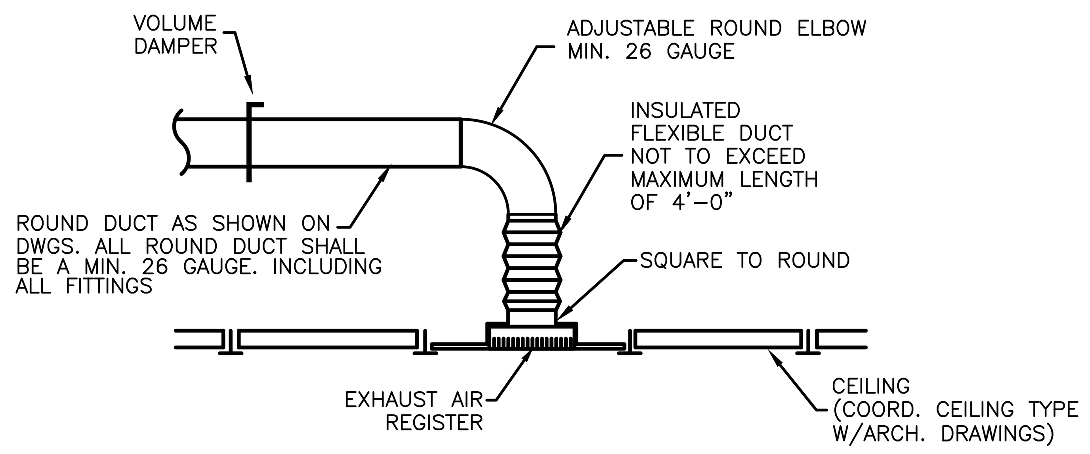
2 M2.1 FLEXIBLE DUCT DETAIL - SUPPLY
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



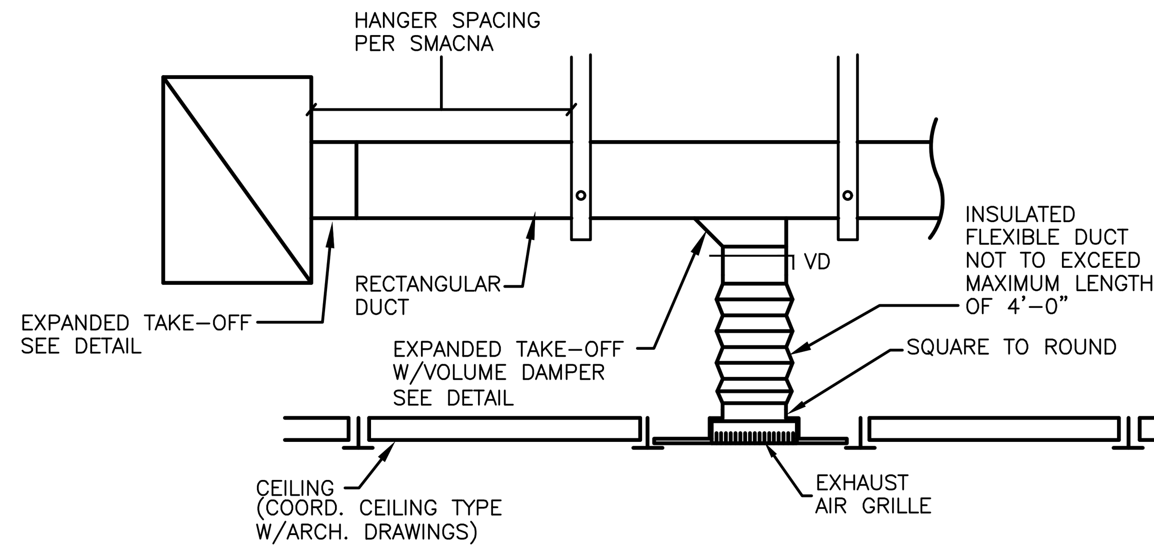
3 M2.1 FLEXIBLE DUCT DETAIL - RETURN
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



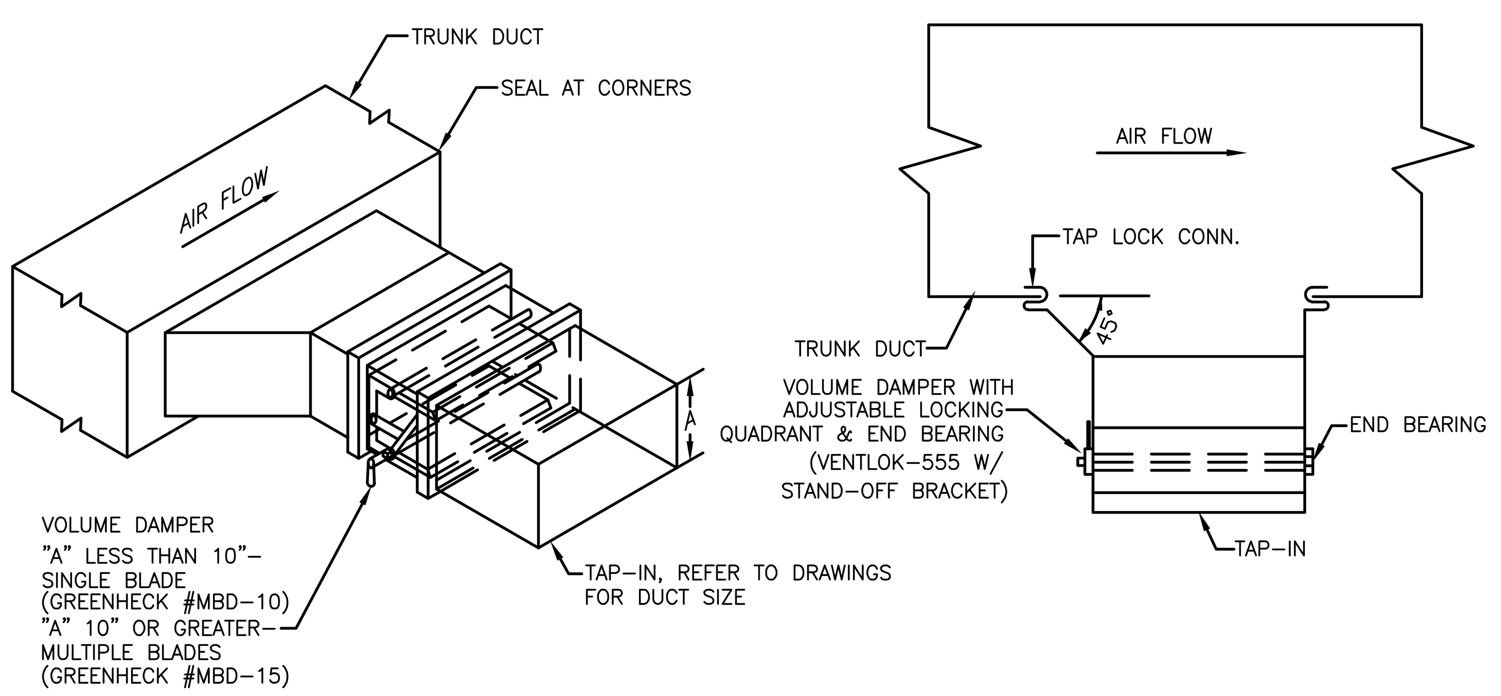
4 M2.1 FLEXIBLE DUCT DETAIL - RETURN
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



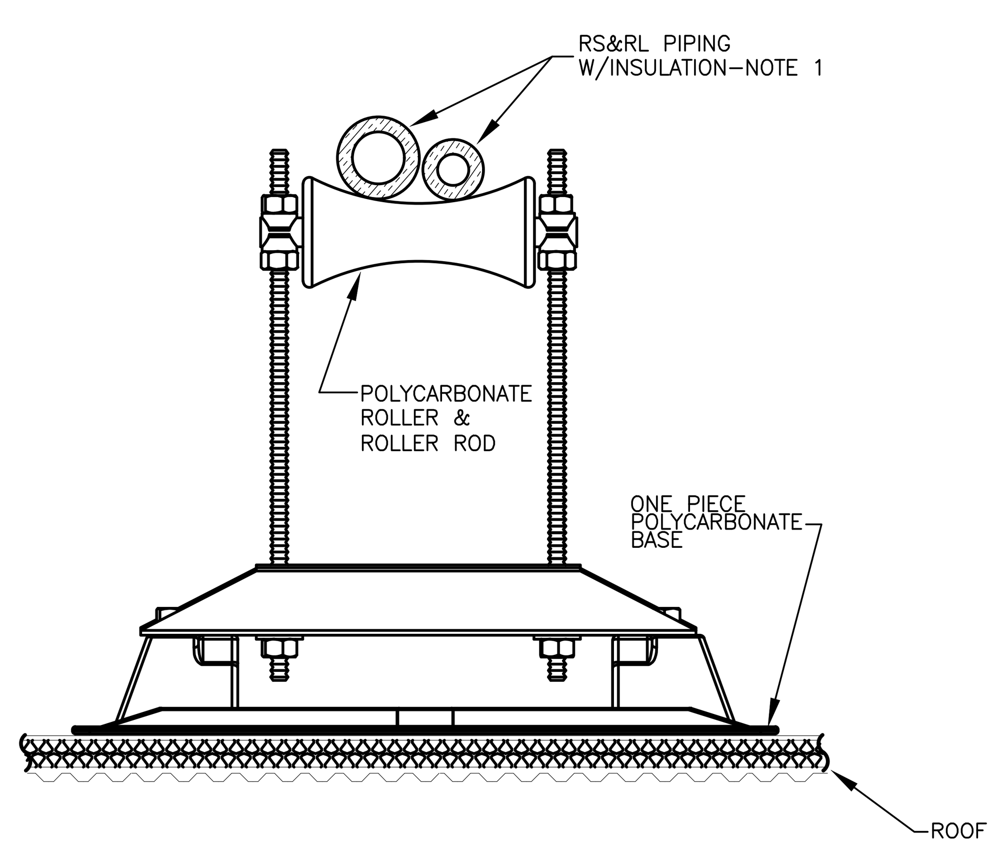
5 M2.1 FLEXIBLE DUCT DETAIL - EXHAUST
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



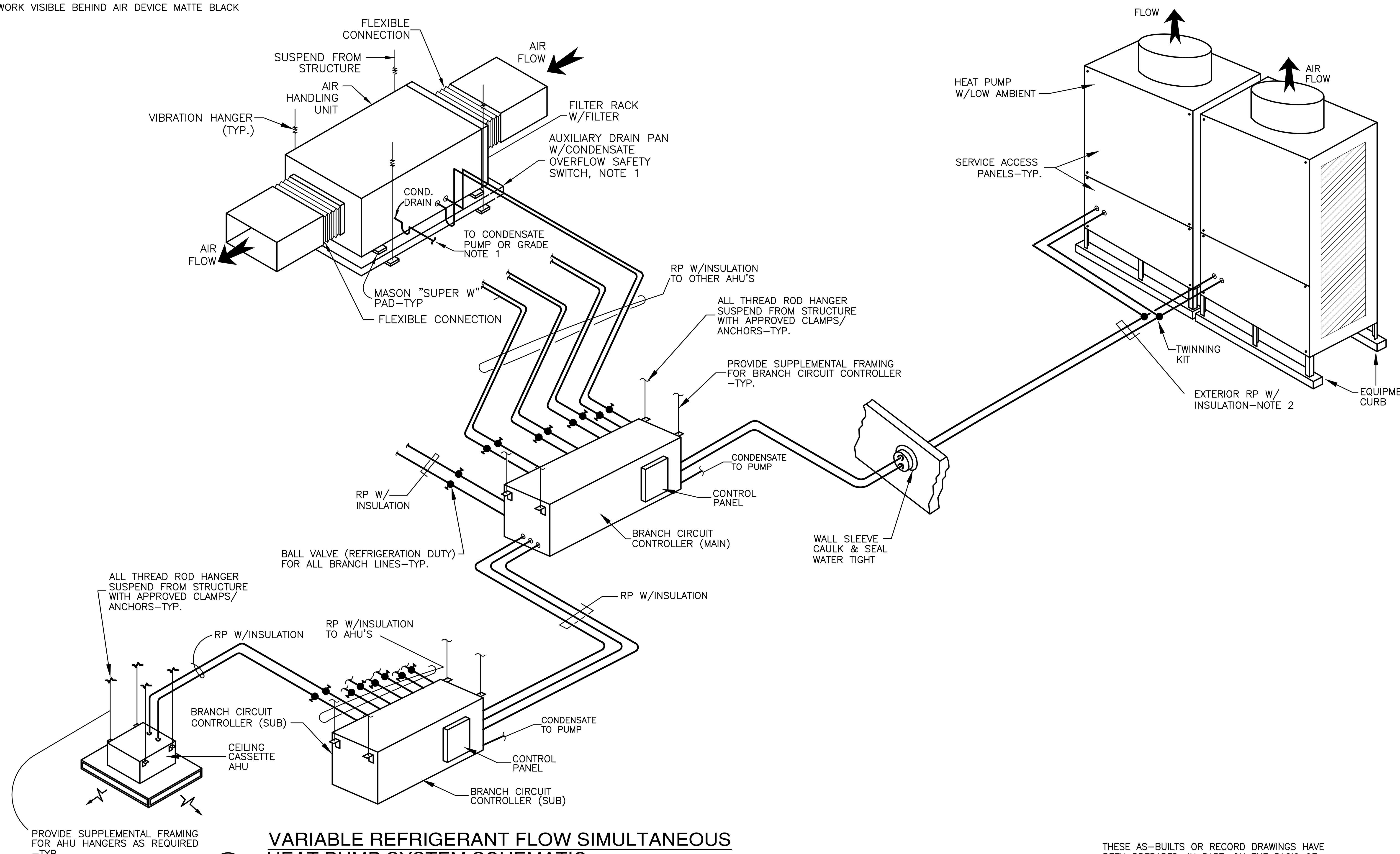
6 M2.1 FLEXIBLE DUCT DETAIL - EXHAUST
NO SCALE
NOTE: 1. PAINT ALL DUCTWORK VISIBLE BEHIND AIR DEVICE MATTE BLACK



7 M2.1 TYPICAL RECTANGULAR EXPANDED TAKE-OFF DETAIL
NO SCALE
GENERAL NOTE: A. ALL TAKE-OFFS SHALL BE THE EXPANDED TYPE AS DETAILED. SEE DRAWINGS FOR VOLUME DAMPER LOCATIONS.



9 M2.1 REFRIGERANT PIPE SUPPORT
NO SCALE
GENERAL NOTE: A. ALL METAL PARTS SHALL BE CONSTRUCTED FROM STAINLESS STEEL.
B. MIRO INDUSTRIES-"RAH-12" SERIES OR APPROVED EQUAL.
DRAWING NOTE: 1. ALL EXTERIOR RP SHALL BE COVERED WITH VENTURE CLAD VENTURE CLAD 1577CW JACKETING SYSTEM OR APPROVED EQUAL.



8 M2.1 VARIABLE REFRIGERANT FLOW SIMULTANEOUS HEAT PUMP SYSTEM SCHEMATIC
NO SCALE
NOTE 1: PROVIDE LITTLE GIANT MODEL #LC-310 THAT SHALL SHUT-OFF UNIT AND SIGNAL AUDIBLE/VISUAL ALARM.
2. ALL EXTERIOR RP SHALL BE COVERED WITH VENTURE CLAD 1577CW JACKETING SYSTEM BY VENTURE TAPE OR APPROVED EQUAL.

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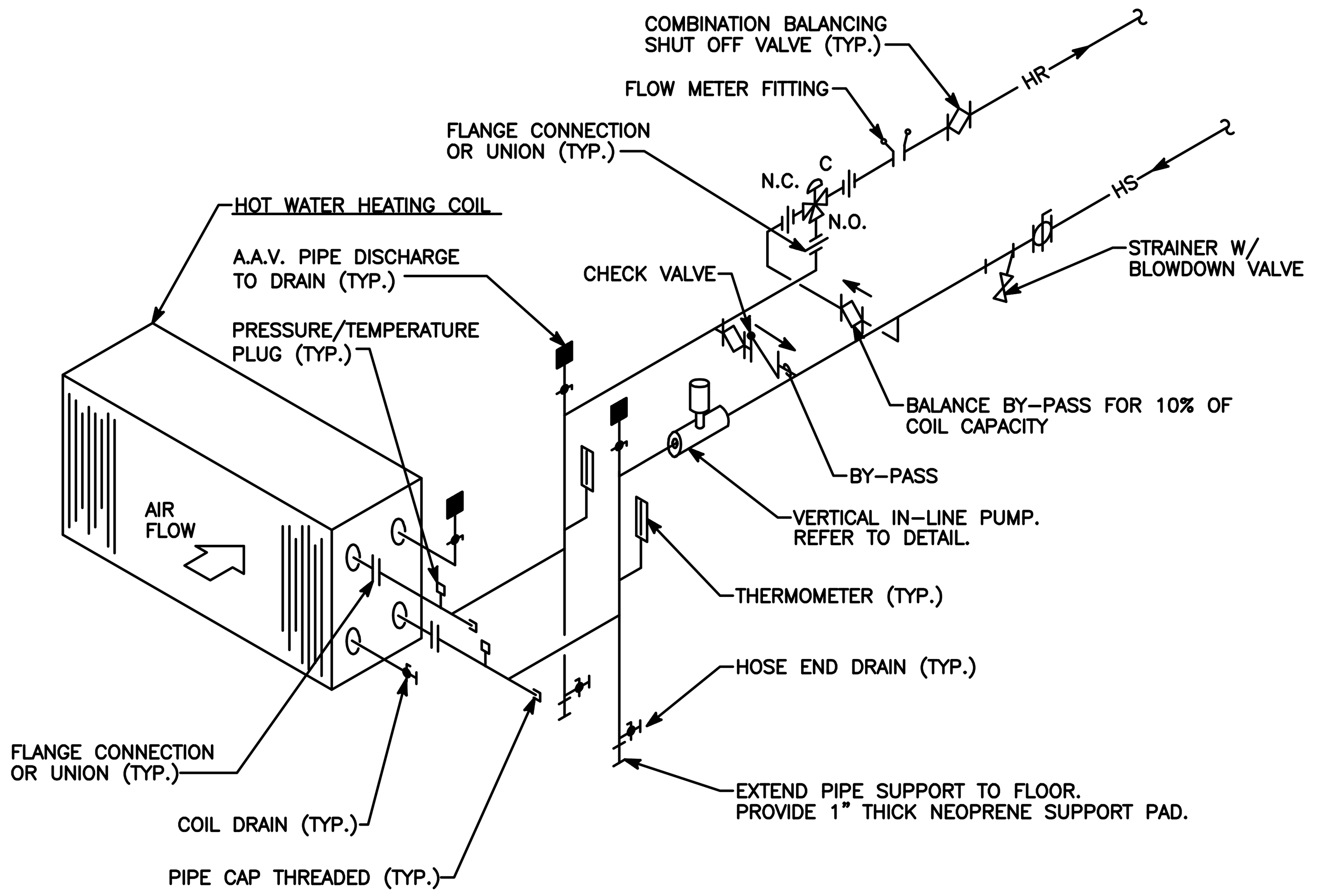
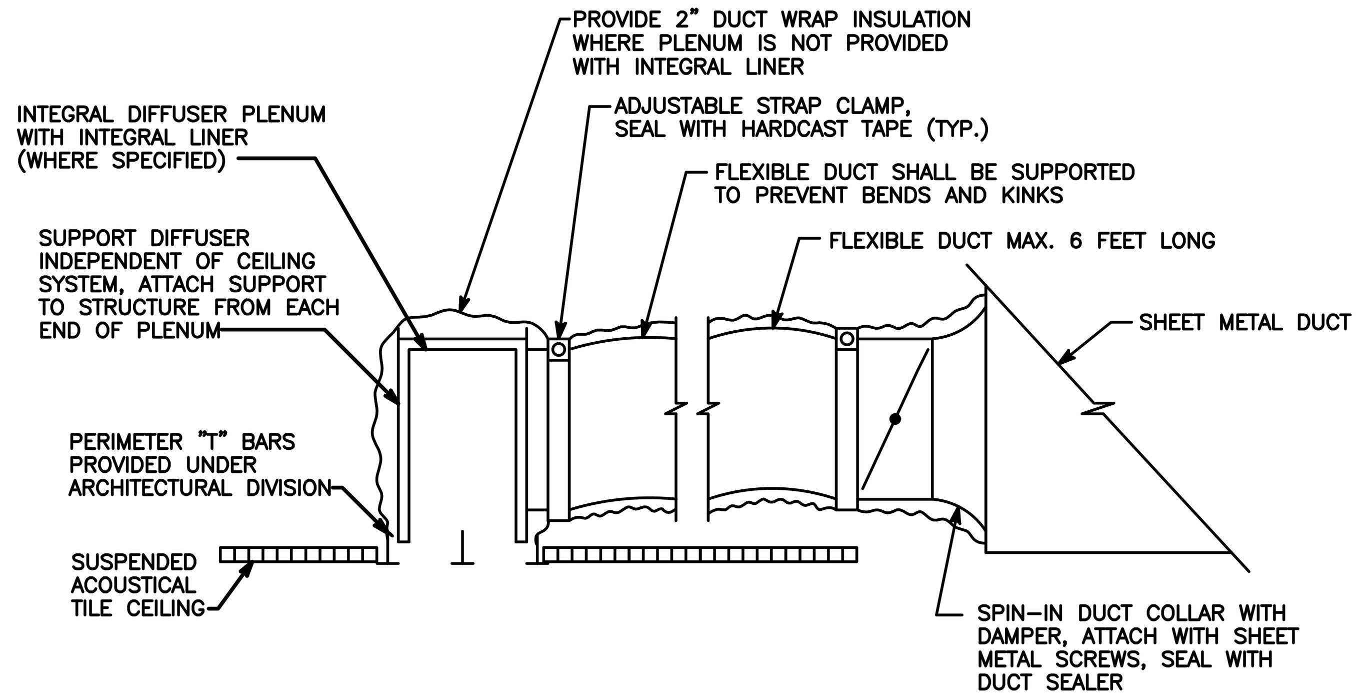
DETAILS-HVAC
M2.1
7 OF 12 SHEETS
DATE : 08.15.14



1 / M2.2 PIPING DETAIL - PREHEAT COIL

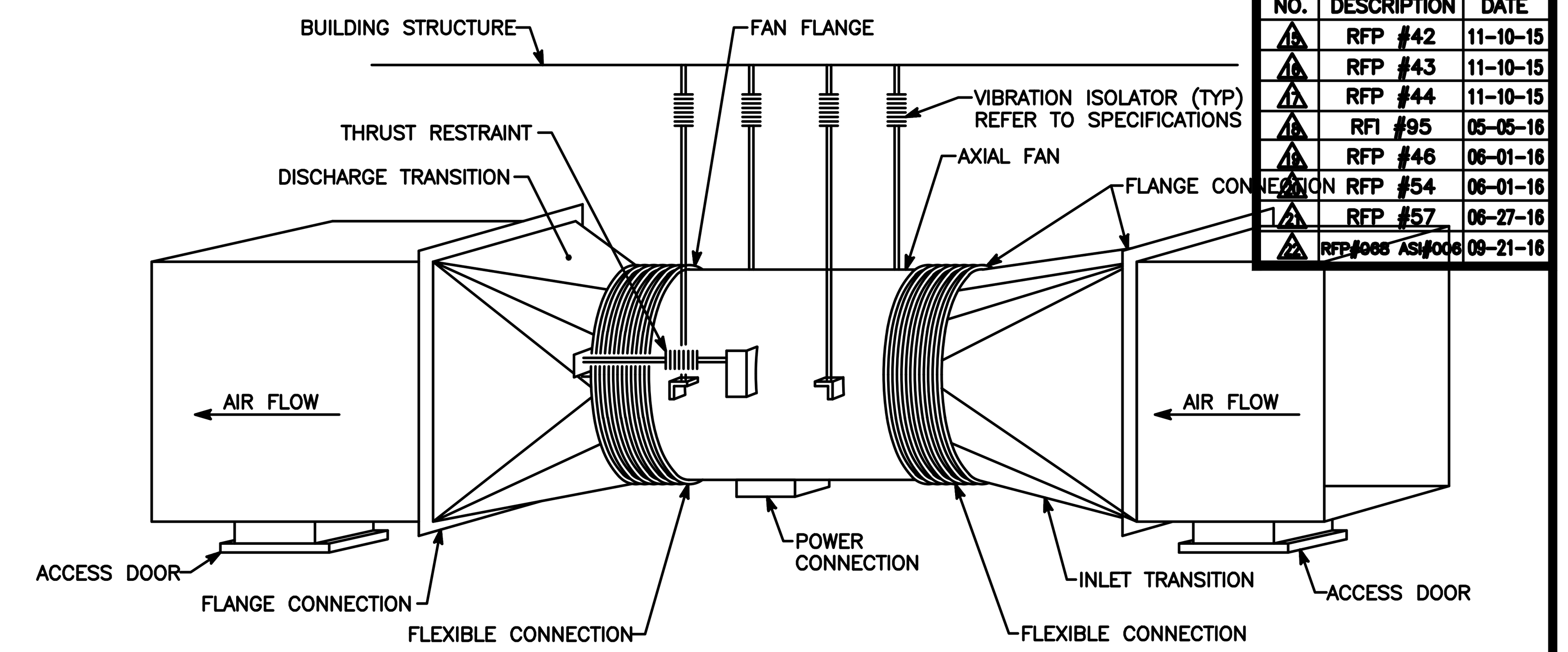
NOT TO SCALE

NOTES:
1. ARRANGE PIPING AND UNIONS TO ENABLE COIL REMOVAL.
2. REFER TO SPECIFICATIONS FOR VALVE OPTIONS.
3. COORDINATE CONTROL VALVE INSTALLATION WITH A.T.C. CONTRACTOR.



2 / M2.2 DETAIL - SLOT DIFFUSER SECTION

NOT TO SCALE



3 / M2.2 DETAIL - INLINE AXIAL FAN SUPPORT - ARRANGEMENT 4

NOT TO SCALE

DESIGN GUIDE NOTES:

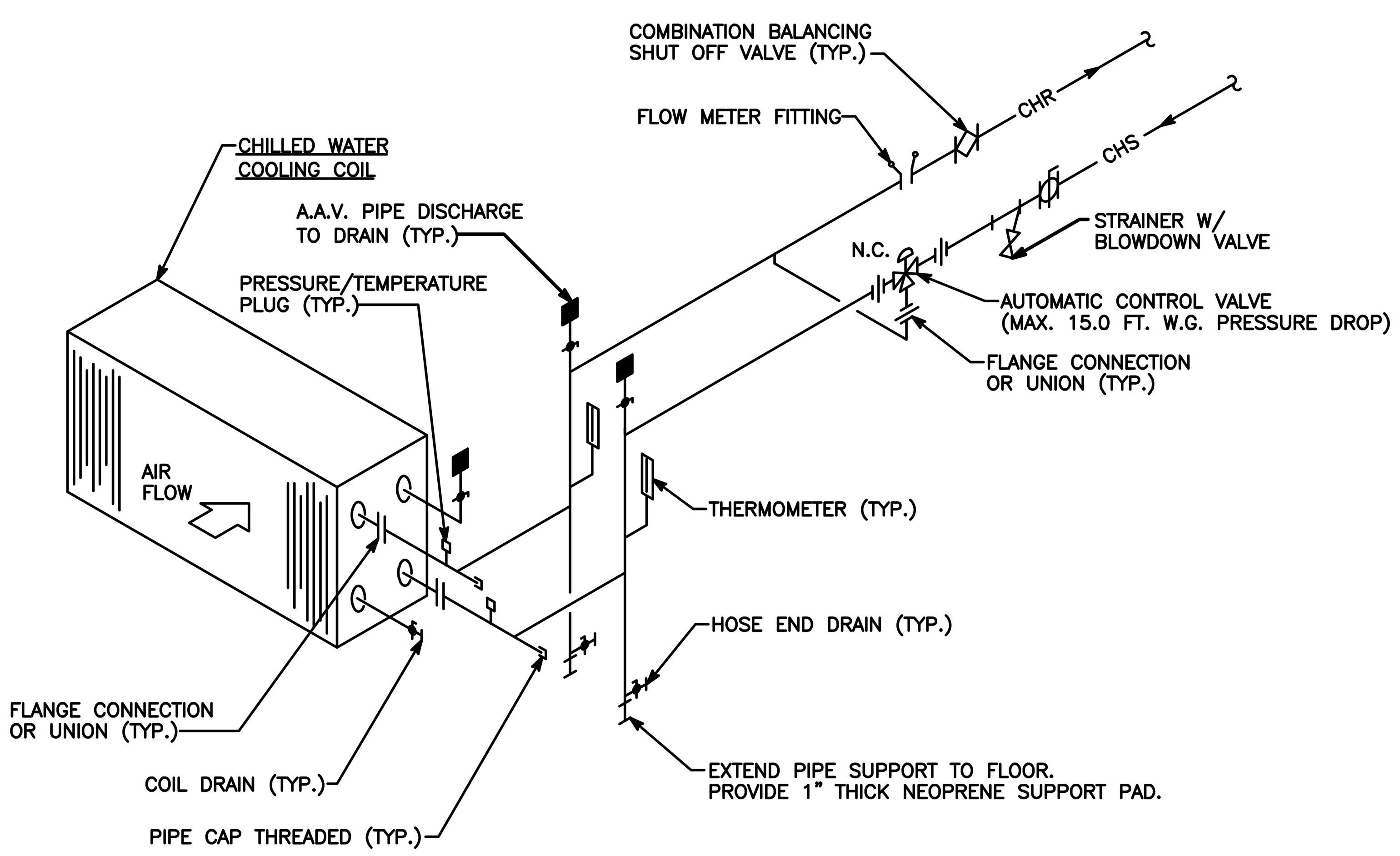
(1) IF VOLUPROBES ARE REQUIRED, YOU MUST USE AN INLET BELL, THIS MAKES THE DUCTED ARRANGEMENT DIFFICULT.

(2) WHEN ROUND DUCTWORK IS USED, INLET AND DISCHARGE CONES WOULD BE USED IN LIEU OF THE TRANSITIONS. REFER TO THAT DETAIL.

(3) DURING DESIGN, MAKE SURE THAT THE FAN CAN BE LOWERED FOR FUTURE MOTOR REPLACEMENT.

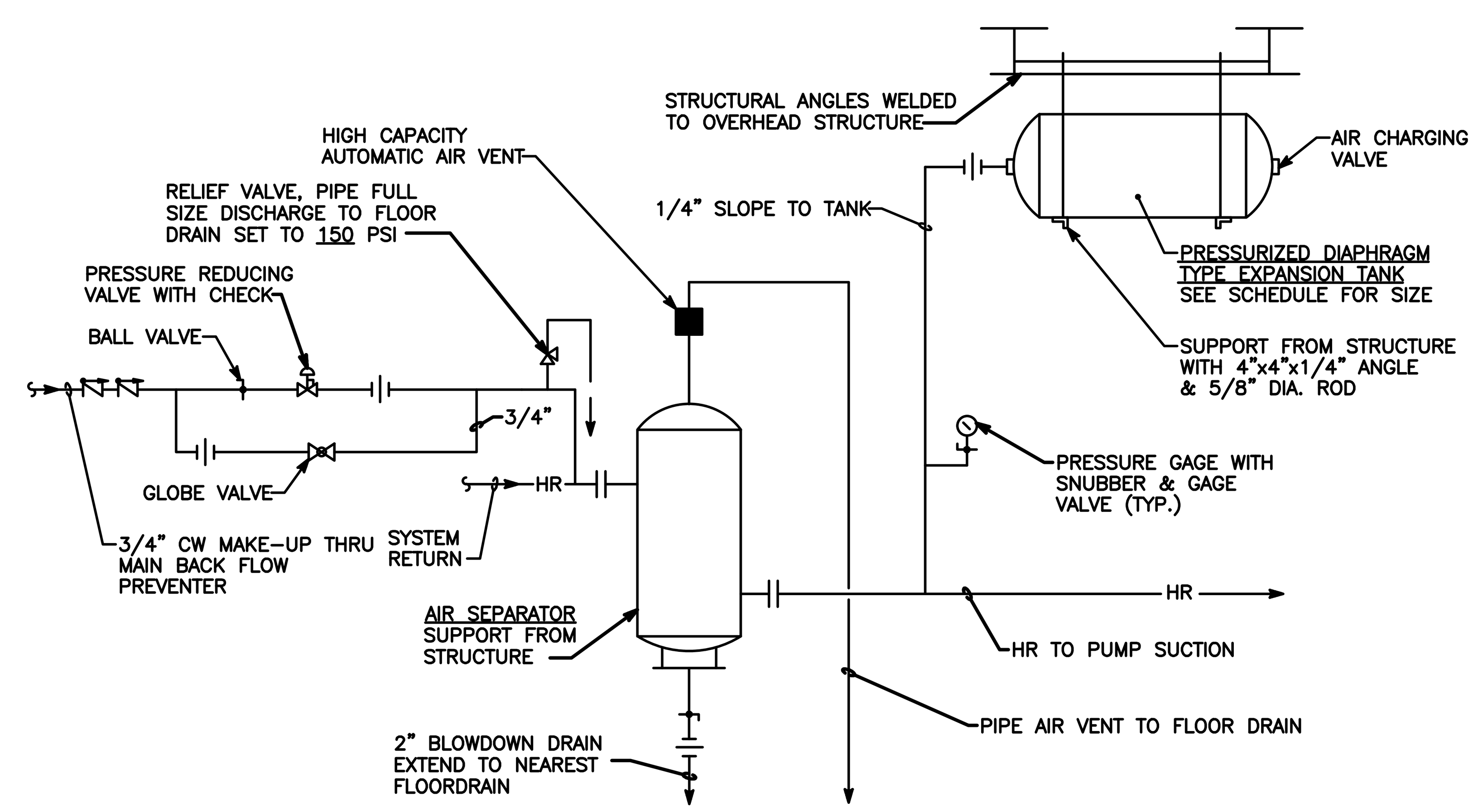
(4) FOR LARGE FANS HAVE STEEL SUPPORT SIZED BY PROJECT STRUCTURAL ENGINEERS.

(5) ROUTE POWER CONDUIT TO MOTOR CONNECTION WITH "SEAL TIGHT" FLEXIBLE CONDUIT. ROUTE CONDUIT TO ENABLE FUTURE FAN REMOVAL.



4 / M2.2 PIPING DETAIL - CHILLED WATER COOLING COIL - SINGLE COIL

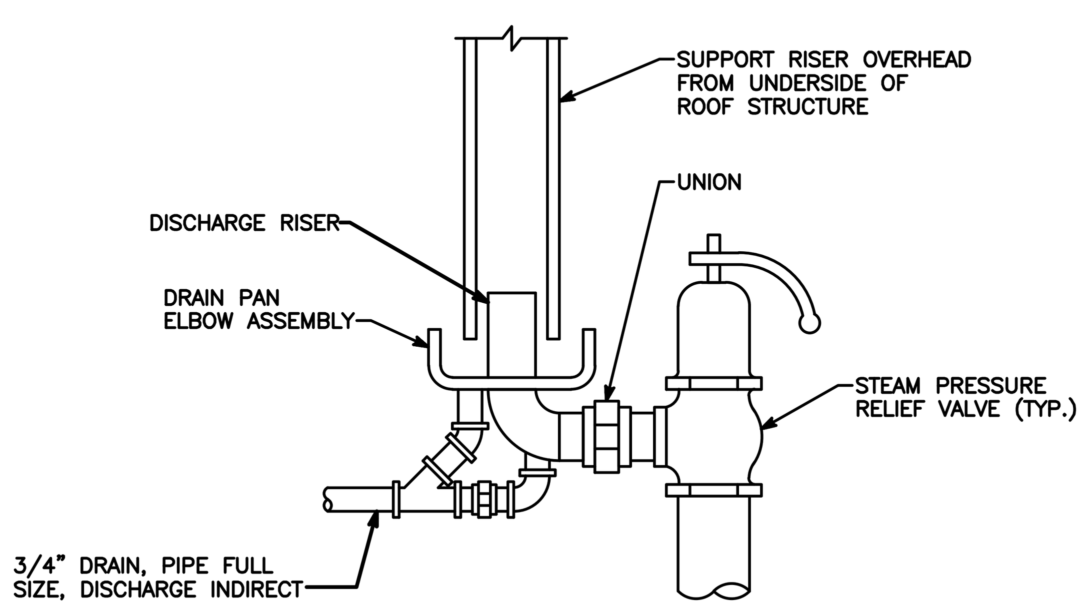
NOT TO SCALE



5 / M2.2 PIPING DETAIL - EXPANSION TANK HOT WATER HEATING SYSTEM

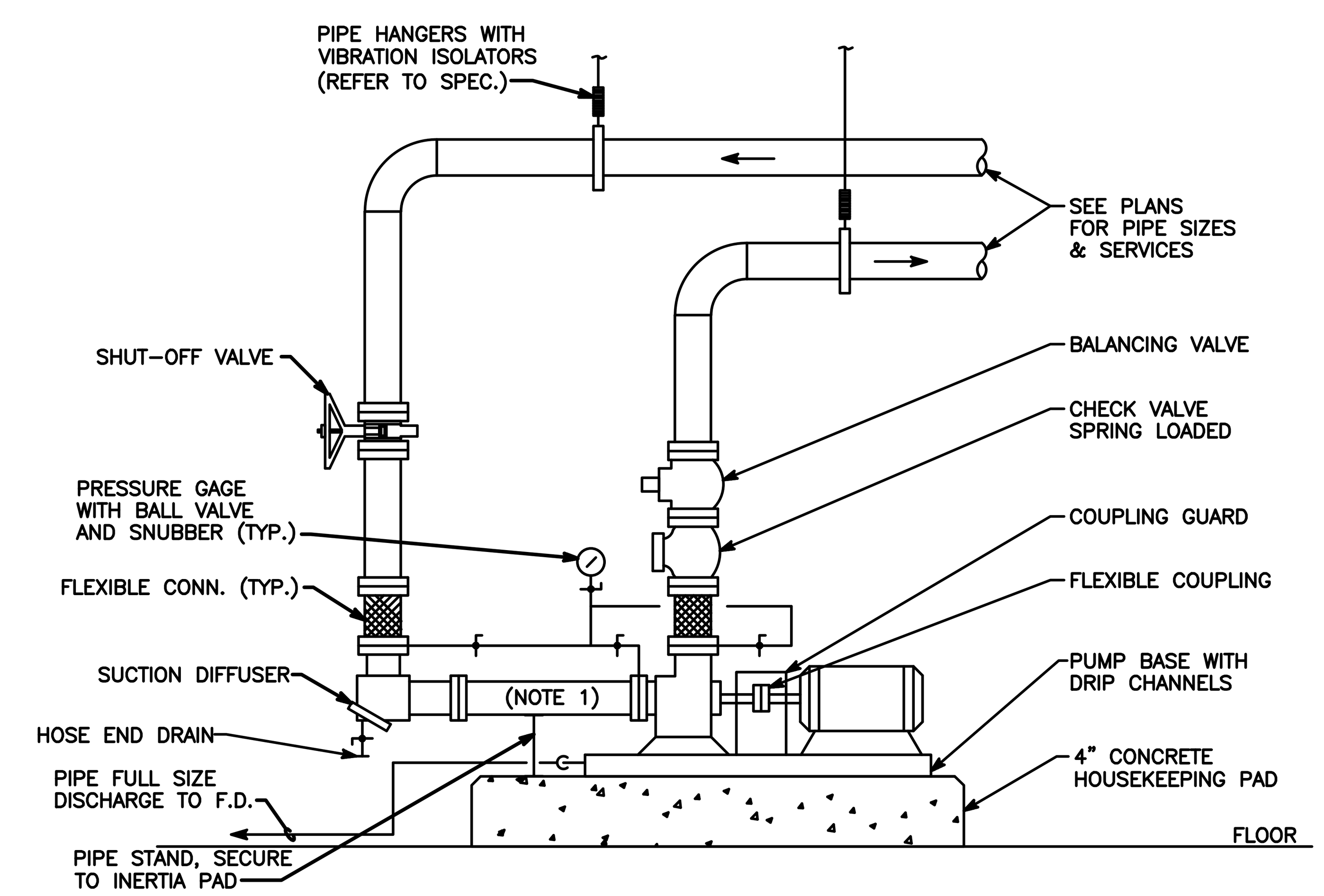
NOT TO SCALE

NOTES: 1. AT CONTRACTORS OPTION THE DIAPHRAGM EXPANSION TANK CAN BE FLOOR MOUNTED.



6 / M2.2 PIPING DETAIL - DRIP PAN ELBOW

NOT TO SCALE



7 / M2.2 DETAIL - BASE MOUNTED END SUCTION PUMP

NOT TO SCALE

NOTES: 1. AT CONTRATORS OPTION PROVIDE STRAIGHT INLET OF PIPING, MINIMUM 5 PIPE DIAMETER, TO PUMP SUCTION IN LIEU OF SUCTION DIFFUSER.

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△	06-04-18	AS-BUILTS

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland. License No:45511 Expiration Date: 06/03/2016

REVISION

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2	ADDENDUM#4	09-03-14
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4	SEWER COORD.	12-16-14
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6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

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12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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RHL No. 13208 FIRST FLOOR RENOVATIONS

DETAILS-HVAC

M2.2

DATE : 08.15.14

HVAC LEGEND AND ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	RAG	RETURN AIR GRILLE
AD	ACCESS DOOR	RAR	RETURN AIR REGISTER
AFF	ABOVE FINISHED FLOOR	RECT.	RECTANGULAR
AHU	AIR HANDLING UNIT	RH	RELATIVE HUMIDITY
ALUM.	ALUMINUM	RL	REFRIGERANT LIQUID
APD	AIR PRESSURE DROP	RLX	RELOCATE EXISTING
ARCH.	ARCHITECT	RPM	REVOLUTIONS PER MINUTE
BD	BYPASS DAMPER	RS	REFRIGERANT SUCTION
BDD	BACKDRAFT DAMPER	RTU	ROOFTOP UNIT
B.I.	BUILT-IN	RX	REMOVE EXISTING
BTO	BOTTOM TAKEOFF	SA	SUPPLY AIR
BTU	BRITISH THERMAL UNITS	SAG	SUPPLY AIR GRILLE
CO2	CARBON DIOXIDE SENSOR	SAR	SUPPLY AIR REGISTER
CD	CEILING DIFFUSER	SEER	SEASONAL ENERGY EFFICIENCY RATING
CFM	CUBIC FEET PER MINUTE	SF	SUPPLY FAN
COORD.	COORDINATE	SFR	SUPPLY FLOOR REGISTER
CW	CHILLED WATER COIL	SP	STATIC PRESSURE
DB	DRY BULB	TC	TOTAL CAPACITY
DX	DIRECT EXPANSION COOLING COIL	TG	TRANSFER GRILLE
(E)	EXISTING	TSC	TOTAL SENSIBLE CAPACITY
EA	EXHAUST AIR	TSP	TOTAL STATIC PRESSURE
EAG	EXHAUST AIR GRILLE	TTO	TOP TAKEOFF
EAT	ENTERING AIR TEMPERATURE	TYP.	TYPICAL
EC	ELECTRICAL CONTRACTOR	UL	UNDERWRITER'S LABORATORY LISTED
EER	ENERGY EFFICIENCY RATING	UNO	UNLESS NOTED OTHERWISE
EF	EXHAUST FAN	VAV	VARIABLE AIR VOLUME
EP	ELECTRICAL PANEL	VD	VOLUME DAMPER
ERV	ENERGY RECOVERY VENTILATOR	V	VOLT
ESP	EXTERNAL STATIC PRESSURE	W	WATTS
EWH	ELECTRIC WALL HEATER	W/	WITH
EWT	ENTERING WATER TEMPERATURE	WB	WET BULB
°F	DEGREE IN FAHRENHEIT	WG	WATER GAUGE
FA	FRESH AIR	WPD	WATER PRESSURE DROP
FCU	FAN COIL UNIT		CONNECT TO EXISTING
FOB	FLAT ON BOTTOM	Ø	DIAMETER
FOT	FLAT ON TOP	Ⓣ	THERMOSTAT OR TEMPERATURE SENSOR
FRAC.	FRACTIONAL	Ⓗ	HUMIDISTAT
FSC	FAN SPEED CONTROL	Ⓒ	CO2 SENSOR
FT	FEET		RETURN AIR DUCT
GC	GENERAL CONTRACTOR		SUPPLY AIR DUCT
GPM	GALLONS PER MINUTE		EXHAUST AIR DUCT
HC	HEATING COIL		DUCT UP
HP	HEAT PUMP		DUCT DOWN
HP	HORSEPOWER	VD	VOLUME DAMPER
HR	HOUR		FLEXIBLE CONNECTION
HSPF	HEATING SEASON PERFORMANCE FACTOR	FDH	FIRE DAMPER HORIZONTAL
HTT	HUMIDITY/TEMP. TRANSMITTER	FDV	FIRE DAMPER VERTICAL
HZ	HERTZ	Ⓢ	SMOKE DETECTOR
IN.	INCHES	MOD	MOTORIZED DAMPER
KW	KILOWATTS		TOP TAKEOFF
LA	LOW AMBIENT		BOTTOM TAKEOFF
LAT	LEAVING AIR TEMPERATURE		EXPANDED SIDE TAKEOFF
LWT	LEAVING WATER TEMPERATURE		ELBOW W/TURNING VANES
LD	LINEAR DIFFUSER		RADIUS ELBOW
LR	LINEAR RETURN	R	INCLINED RISE W/RESPECT TO AIRFLOW
MANUF.	MANUFACTURER	D	INCLINED DROP W/RESPECT TO AIRFLOW
MAX.	MAXIMUM		4-WAY THROW DIFFUSER
MBH	THOUSAND BTU PER HOUR		3-WAY THROW DIFFUSER
MC	MECHANICAL CONTRACTOR		2-WAY THROW DIFFUSER
MCA	MINIMUM CIRCUIT AMPACITY		1-WAY THROW DIFFUSER
MIN.	MINIMUM	———	NEW
MNT.	MOUNT	— — —	EXISTING
MOCP	MAXIMUM OVER CURRENT PROTECTION	- - - -	EXISTING TO BE REMOVED
MOD	MOTORIZED DAMPER		AIRFLOW DIRECTION
MUA	MAKE-UP AIR		
NTS	NOT TO SCALE		
OA	OUTSIDE AIR		
PCF	POUND PER CUBIC FOOT		
PH	PHASE		
PREP.	PREPARE		
RA	RETURN AIR		

MECHANICAL DRAWING NOTES

A. THE FOLLOWING NOTES ARE GENERAL IN NATURE AND APPLY TO THE WHOLE PROJECT. WHERE THERE ARE ALTERATIONS, OR ADDITIONS TO THE GENERAL NOTES THEY ARE NOTED ON THE DRAWING SPECIFICALLY WHERE THEY OCCUR.

B. CONTRACTOR SHALL BE RESPONSIBLE TO MEET ALL STATE & LOCAL CODES REQUIRED FOR THIS PROJECT.

C. PRIOR TO THE BEGINNING OF WORK, SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT, DUCTWORK, ETC... IN ACCORDANCE WITH PROJECT SPECIFICATIONS FOR ARCHITECT ENGINEERS REVIEW AND APPROVAL.

D. ALL CONCEALED DUCTWORK AND PIPING SHALL RUN AS HIGH AS POSSIBLE ABOVE SCHEDULED HEIGHT OF FINISHED CEILINGS UNLESS OTHERWISE NOTED.

E. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, CLEARANCES, & EXISTING CONDITIONS PRIOR TO ANY TYPE OF WORK. ALL WORK SHALL BE IN THIS DIVISION SHALL BE COORDINATED WITH ALL OTHER DIVISIONS.

F. CONTRACTOR TO MAINTAIN ALL SERVICE CLEARANCES REQUIRED FOR EXISTING & NEW EQUIPMENT.

G. CONTRACTOR SHALL SEAL ALL HOLES & PENETRATIONS IN ALL WALLS FOR THEIR WORK.

H. DO NOT SCALE DRAWING – ALL DIMENSIONS SHALL BE CHECKED AND VERIFIED BY THIS CONTRACTOR. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DEVIATIONS THAT ARE FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS

I. CONTRACTOR SHALL REPORT ALL DISCREPANCIES FOUND IN THE DRAWINGS AND/OR IN THE SPECIFICATIONS DURING THE BIDDING PROCESS FOR CLARIFICATION.

J. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW ONLY THE GENERAL ARRANGEMENT OF ALL DUCTWORK, PIPING AND EQUIPMENT LAYOUT. BECAUSE OF THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW OR INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO AVOID EXISTING/NEW PIPING OR STRUCTURAL FEATURES THEREFORE THE CONTRACTOR SHALL PROVIDE WHAT IS REQUIRED TO INSTALL A COMPLETE SYSTEM. EXACT LOCATION OF ALL COMPONENTS SHALL BE DETERMINED AND COORDINATED IN THE FIELD.

K. CONTRACTOR TO COORDINATE LOCATION OF WALL MOUNTED THERMOSTATS, HUMIDISTATS & CO2 SENSORS WITH OWNER & ARCHITECT PRIOR TO ROUGH-IN. ALL WALL MOUNTED THERMOSTATS, HUMIDISTATS & CO2 SENSORS SHALL BE MOUNTED 4'-0" AFF UNLESS NOTED OTHERWISE.

L. NO DUCT OR PIPING SHALL BE INSTALLED ABOVE ANY ELECTRICAL PANEL.

M. CONTRACTOR TO MAINTAIN THE MINIMUM SEPARATION BETWEEN EA OUTLETS & OA INTAKES/OPENINGS AS REQUIRED BY CODE.

N. ALL DUCTWORK SHALL BE SEALED WITH "MASTIC" TYPE DUCT SEALER. TAPE WILL NOT BE ACCEPTED AS A METHOD TO SEAL DUCT.

O. ALL CONCEALED SUPPLY, RETURN & OUTSIDE AIR DUCTWORK LOCATED WITHIN THE BUILDING INSULATION SHALL BE INSULATED WITH 2" THICK 1.0 PCF DUCT WRAP WITH A MINIMUM INSTALLED R-6.0 VALUE. ALL EXPOSED SUPPLY, RETURN & OUTSIDE AIR DUCTWORK LOCATED WITHIN THE BUILDING INSULATION SHALL BE INSULATED WITH 1.5" THICK DUCT BOARD WITH A MINIMUM INSTALLED R-6.5 VALUE. ALL SUPPLY, RETURN & OUTSIDE AIR LOCATED OUTSIDE THE BUILDING INSULATION SHALL BE INSULATED WITH 3" THICK 0.75 PCF DUCT WRAP WITH A MINIMUM INSTALLED R-8.0 VALUE. ALL SUPPLY & RETURN DUCTWORK LOCATED OUTSIDE THE BUILDING SHALL BE INSULATED WITH 2" THICK DUCT BOARD WITH A MINIMUM INSTALLED R-8.7 VALUE & SHALL BE COVERED WITH EPDM ROOFING AND SHALL BE WATER TIGHT. ALL TRANSFER DUCTWORK SHALL BE INSULATED WITH 1/2" THICK 2.0 PCF ACOUSTICAL FIBERGLASS DUCTLINER WITH A MINIMUM INSTALLED R-2.1 VALUE.

P. ALL VISIBLE DUCTWORK THROUGH A GRILLE, REGISTER OR DIFFUSER SHALL BE PAINTED FLAT BLACK.

Q. ALL DUCTWORK SIZES NOTED ARE FREE AREA SIZES. ALL DUCTWORK SHALL BE CONSTRUCTED PER SMACNA REQUIREMENTS (LATEST EDITION).

R. ALL ROUND DUCT SHALL BE A MIN. 26 GAUGE INCLUDING ALL FITTINGS.

S. ALL TAKE-OFFS SHALL BE EXPANDED TYPE TAKEOFFS AS DETAILED.

T. VOLUME DAMPERS LESS THAN 10" IN HEIGHT SHALL BE SINGLE BLADE (GREENHECK #MBD-10). VOLUME DAMPERS 10" AND GREATER IN HEIGHT SHALL BE MULTIPLE OPPOSED BLADE (GREENHECK #MBD-15). ROUND VOLUME DAMPERS SHALL BE SINGLE BLADE (GREENHECK #MBDR-50). ALL DAMPERS SHALL BE BY GREENHECK AS LISTED OR APPROVED EQUAL BY RUSKIN, AIR BALANCE OR AMERICAN WARMING & VENTILATING. ALL VOLUME DAMPERS SHALL HAVE ADJUSTABLE LOCKING QUADRANT AND END BEARING. A STANDOFF BRACKET SHALL BE PROVIDED FOR ALL VOLUME DAMPERS INSTALLED ON DUCT WITH EXTERNAL INSULATION. VOLUME DAMPER HARDWARE SHALL BE VENTLOK-555 OR APPROVED EQUAL.

U. ALL MOTORIZED DAMPERS SHALL BE LOW LEAKAGE TYPE WITH BLADE EDGE SEALS AND JAMB SEALS. COORDINATE ACTUATOR VOLTAGE WITH ATC AND ELECTRICAL. MODULATING DAMPERS SHALL BE OPPOSED BLADE AND TWO POSITION SHALL BE PARALLEL BLADE TYPE. DAMPERS SHALL BE RUSKIN CD60 OR APPROVED EQUAL BY GREENHECK, UNITED ENERTECH, LOUVERS & DAMPERS, OR NATIONAL CONTROLLED AIR.

V. ALL FIRE DAMPERS SHALL BE DYNAMIC TYPE WITH "B" STYLE FRAME UNO. DAMPERS SHALL BE UL555 LABELED MULTI-BLADE TYPE WITH U.L. APPROVED 165°F FUSIBLE LINKS. EACH DAMPER SHALL BE PROVIDED WITH A TIGHTLY FITTED ACCESS PANEL OF SUFFICIENT SIZE TO MAKE DAMPER ACCESSIBLE FOR INSPECTION, MAINTENANCE AND RESETTING. DAMPER SHALL BE RATED PER FIRE RATINGS AS SHOWN ON ARCHITECTURAL DRAWINGS UNO. DAMPERS SHALL BE RUSKIN OR APPROVED EQUAL BY GREENHECK, PERFCO, UNITED ENERTECH, OR NATIONAL CONTROLLED AIR.

W. LOUVERS SHALL BE 6" DEEP. EXTRUDED ALUMINUM WITH DRAINABLE BLADES POSITIONED AT 37.5' ANGLE AND SPACED APPROXIMATELY 6" ON CENTER. LOUVERS SHALL BE PROVIDED WITH INSECT SCREENS & EXTENDED SILLS. ARCHITECT TO SELECT FINISH & COLOR. LOUVERS SHALL BE RUSKIN ELF6375DX OR APPROVED EQUAL BY GREENHECK, LOUVERS & DAMPERS, NCA, UNITED ENERTECH OR AMERICAN WARMING & VENTILATING. BRICK VENTS SHALL BE 4" DEEP. EXTRUDED ALUMINUM WITH DRAINABLE BLADES POSITIONED AT 45' ANGLE. BRICK VENT SHALL BE PROVIDED WITH INSECT SCREEN. ARCHITECT TO SELECT FINISH & COLOR. BRICK VENT SHALL BE SUN VENT EX OR APPROVED EQUAL.

X. ALL FANS SHALL BE CONNECTED TO DUCTWORK WITH FLEXIBLE CONNECTIONS. FLEXIBLE CONNECTIONS SHALL BE NEOPRENE COATED 30 OUNCE/SQUARE YARD CANVAS. DURODYNE MODEL MF6N4 OR APPROVED EQUAL BY VENTFABRICS OR DUCTMATE INDUSTRIES.

Y. ALL ROOF WORK SHALL BE DONE IN COMPLIANCE WITH THE ROOF WARRANTY.

Z. AT THE COMPLETION OF THE JOB THE CONTRACTOR SHALL FURNISH 3 SETS OF OPERATION & MAINTENANCE MANUALS IN LOOSE LEAF BINDERS FOR ALL HVAC EQUIPMENT TO THE OWNER. THE MANUAL SHALL INCLUDE AT A MINIMUM: TABLE OF CONTENTS, DESCRIPTIVE BROCHURES ON ALL EQUIPMENT, MAINTENANCE INSTRUCTIONS, LUBRICATION SCHEDULE, PARTS LIST FOR ALL EQUIPMENT, NAME & SERVICE PHONE NUMBER OF INSTALLING CONTRACTOR, AND ATC DIAGRAMS.

AA. ALL EQUIPMENT, PIPING AND DUCTWORK SHALL BE SUPPORTED FROM BLDG. STRUCTURE SO TO PROVIDE A VIBRATION FREE INSTALLATION. NOTIFY ARCHITECT AND STRUCTURAL ENGINEER OF ALL WEIGHTS AND METHODS OF SUPPORT.

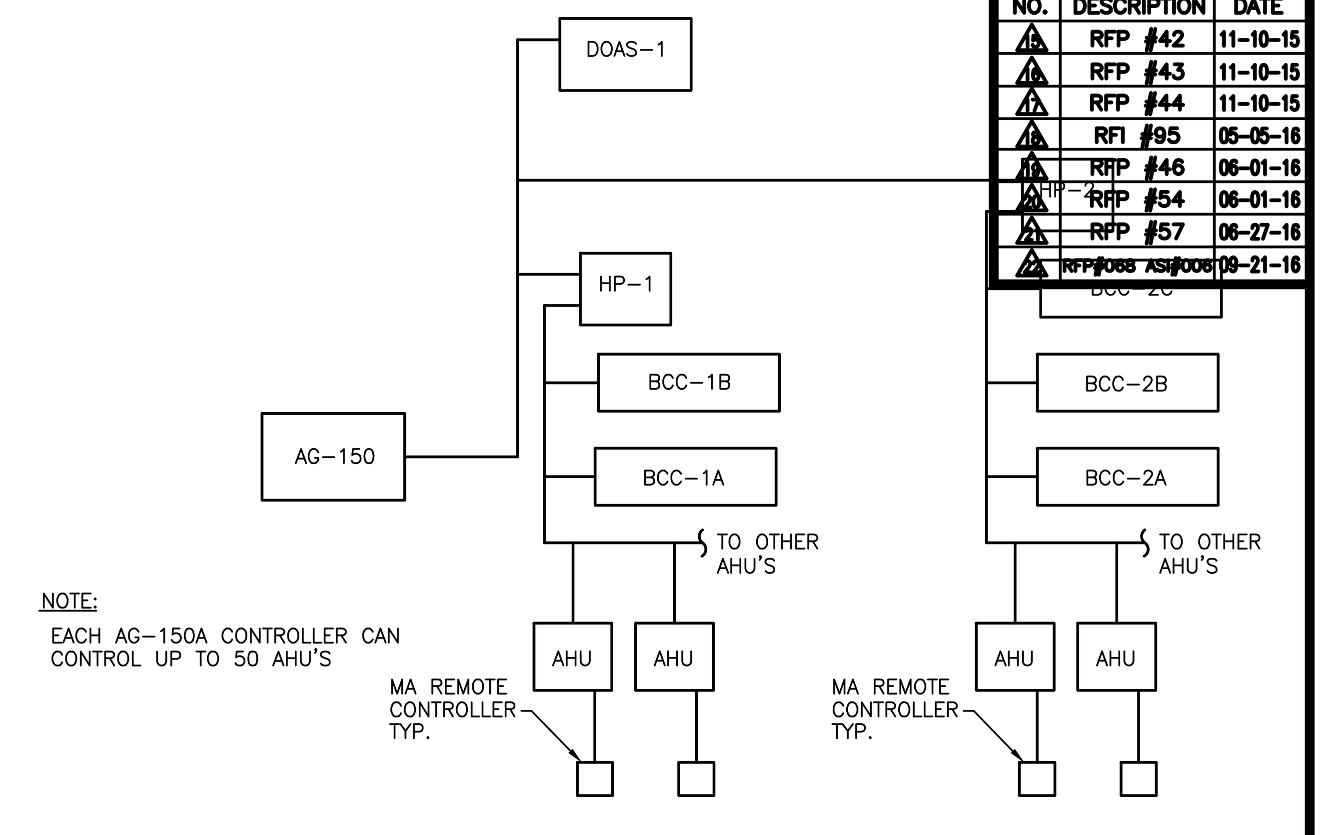
BB. ALL CONTROL WIRING LOCATED IN CONCEALED CEILINGS & WALLS SHALL BE PLENUM RATED CABLE. ALL EXPOSED CONTROL WIRING & CONTROL WIRING LOCATED IN MECHANICAL/ELECTRICAL ROOM & UNFINISHED AREAS SHALL BE RUN IN CONDUIT. ALL CONTROL WIRE AND CONDUIT FOR CONTROL WIRE SHALL COMPLY WITH NEC AND DIVISION 16 OF SPECIFICATIONS.

CC. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED TO THE FIRE ALARM SYSTEM BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL MOUNT THE DETECTORS IN DUCTWORK, WHERE REQUIRED BY CODE. THE MECHANICAL CONTRACTOR SHALL PROVIDE THE CONTROL WIRING FROM FIRE ALARM CONTACT TO THE HVAC EQUIPMENT. UPON ACTIVATION OF THE DUCT MOUNTED SMOKE DETECTOR AND/OR THE HVAC SHUT DOWN SWITCH THE HVAC FANS AND ASSOCIATED COMPRESSORS SHALL BE SHUT DOWN.

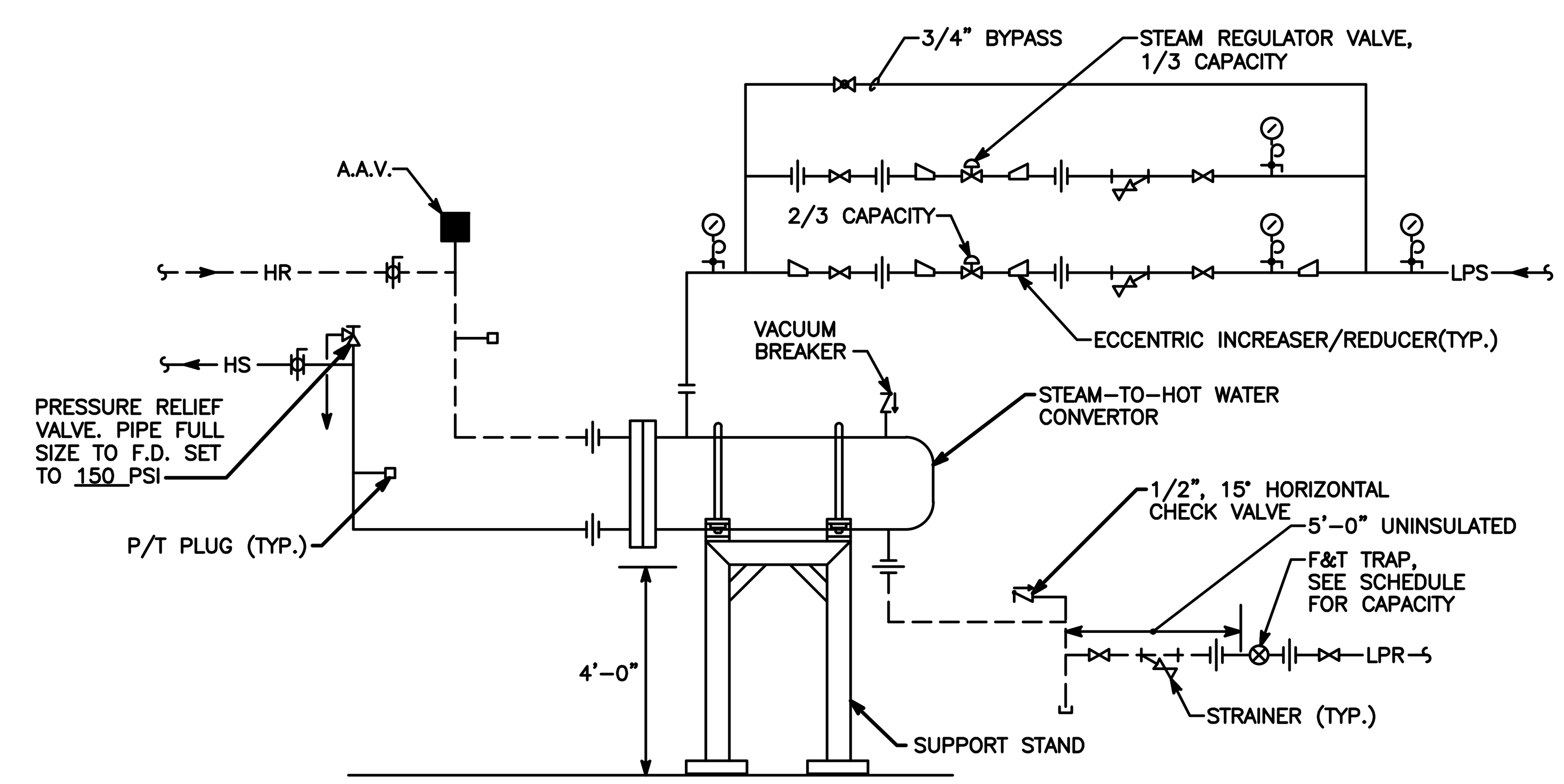
DD. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS PANELS IN ALL INACCESSIBLE CEILINGS TO CLEAN & SERVICE COILS, DAMPERS, HEATERS, VALVES AND ALL MECHANICAL EQUIPMENT. ACCESS PANEL SHALL BE CLEANED AND PREPARED FOR FIELD PAINTING.

EE. ALL EXTERIOR RS & RL PIPING INSULATION SHALL BE COVERED WITH VENTURECLADD 1577CW JACKETING SYSTEM OR APPROVED EQUAL.

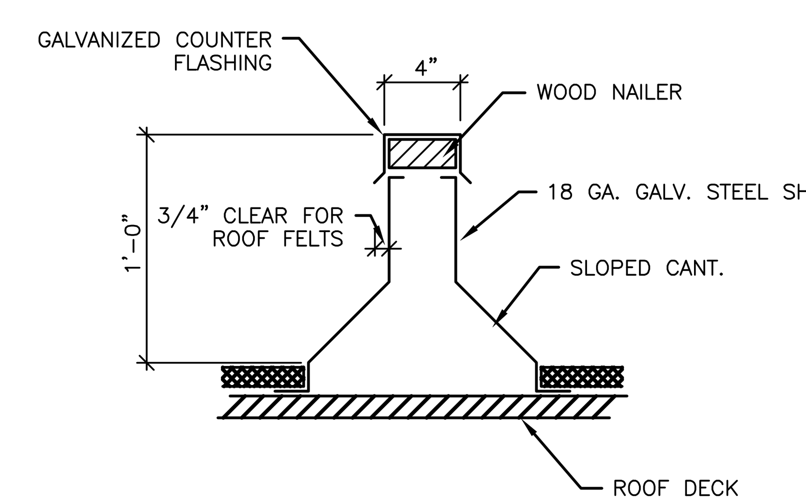
FF. FLEXIBLE AIR DUCT SHALL BE MINIMUM 4' & A MAXIMUM OF 6'. ALL FLEXIBLE AIR DUCTS SHALL HAVE 2" FIBERGLASS BLANKET (R=6.0) WITH FLAME RESISTANT VAPOR BARRIER AND SHALL BE ATCO #076 OR APPROVED EQUAL BY GENFLEX OR HART & COOLEY.



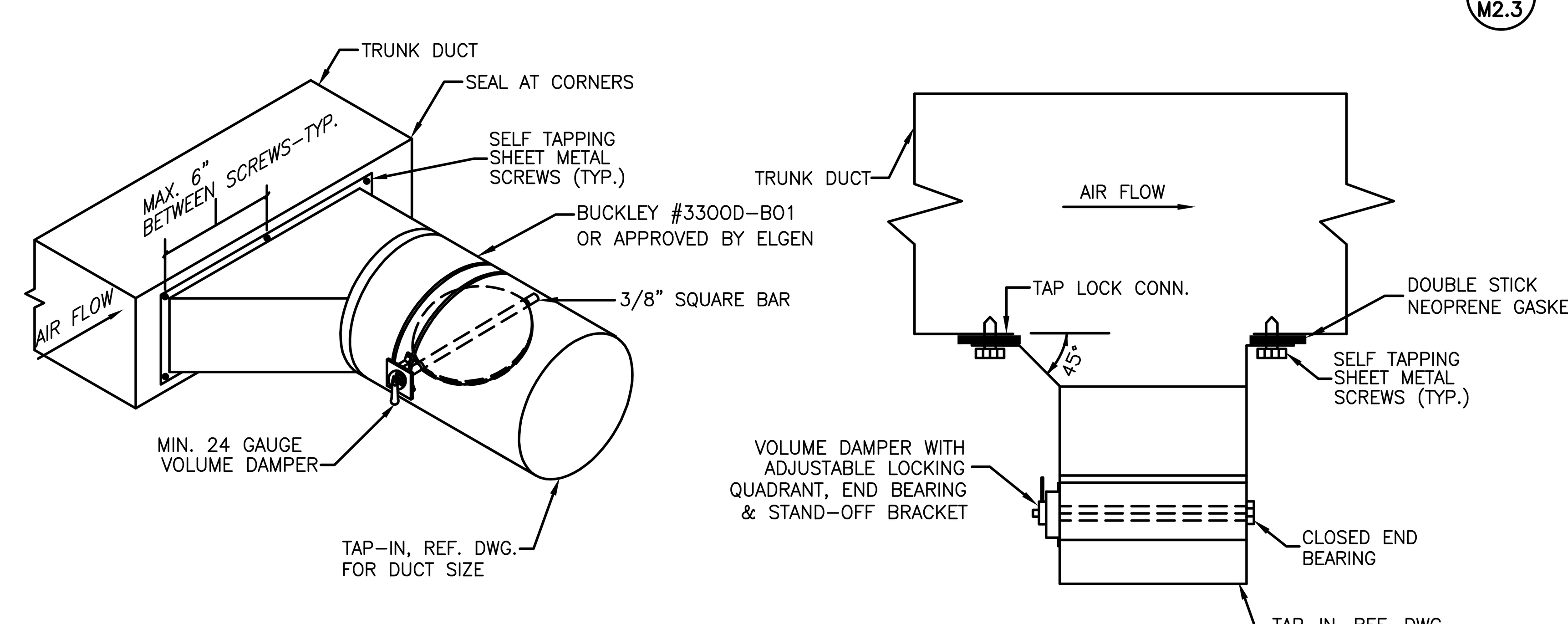
1 M2.3 CITY MULTI-CONTROL WIRING SCHEMATIC
NO SCALE



2 M2.3 PIPING DETAIL - STEAM-TO-WATER CONVERTOR
NO SCALE



3 M2.3 EQUIPMENT CURB
NO SCALE



4 M2.3 TYPICAL ROUND EXPANDED TAKE-OFF DETAIL
NO SCALE
GENERAL NOTE: ALL TAKE-OFFS SHALL BE THE EXPANDED TYPE AS DETAILED. SEE DRAWINGS FOR VOLUME DAMPER LOCATIONS.
ALL ROUND TAKE-OFFS SHALL BE BUCKLEY @3300D-B01 OR APPROVED EQUAL BY ELGEN.

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RHL No. 13208 FIRST FLOOR RENOVATIONS

SCHEDULES, NOTES & LEGEND HVAC

M2.3

DATE : 08.15.14

AIR HANDLING UNIT SCHEDULE

DESIG.	LOCATION	SERVICE	GENERAL: TOTAL CFM MAX	TOTAL CFM MIN	MIN. OA (CFM)	EXT./TOTAL STATIC PRESSURE (IN. W.G.)	FANS (SEE FAN SCHEDULE FOR DUTIES)	COOLING COIL (NOTE 1): TOTAL/ SENS. CAP. (MBH)	MIN. ROWS/ MAX. FINS PER IN.	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	APPROX. SIZE (SQ. FT.)	MAX FACE VEL. (FPM)	MAX. AIR PD (IN W.G.)	EWT (°F)	LWT (°F)	GPM PER COIL/ TOTAL	MAX. WPD (FT. W.G.)
AHU-1	PENTHOUSE	FIRST FLOOR	6200	1900	750	1.25 / 3.13	SF-1, RF-1	286 / 194	6 / 12	81	67	51.9	51.2	12.4	500	1.01	45	55	57.2	12.4

DESIG.	HEATING COIL (NOTE 2): CFM	DUTY	SIZE	TOTAL CAP. (MBH)	MIN. ROWS/ MAX FINS PER IN.	EAT DB (°F)	EAT WB (°F)	LAT DB (°F)	LAT WB (°F)	FACE VEL. (FPM)	MAX AIR PD (IN W.G.)	EWT (°F)	LWT (°F)	GPM PER COIL/ TOTAL	MAX. WPD (FT. W.G.)	REMARKS
AHU-1	6200	PREHEAT	12.4	270.5	1 / 12	48.5	-	87.4	-	500	0.07	180	160	28.4	13.4	YORK - SOLUTION

NOTES:
1. CHILLED WATER COOLING COIL BANK CONSISTS OF ONE(1) COIL, (51" WIDE x 35" HIGH).
2. HEATING COIL BANK CONSISTS OF ONE (1) COIL, (51" WIDE x 35" HIGH). PROVIDE 30% PROPYLENE GLYCOL HEATING HOT WATER.
3. REFER TO AUTOMATIC TEMPERATURE CONTROL DIAGRAMS FOR ALL ADDITIONAL REQUIREMENTS.
4. PROVIDE MIXING BOX, FILTER SECTION, AIR BLENDER, HEATING HOT WATER PREHEAT COIL, CHILLED WATER COOLING COIL, AND SUPPLY AIR FAN SECTION.

DEDICATED OUTDOOR AIR UNIT WITH ENERGY RECOVERY SCHEDULE

DESIG.	DESIGN CONDITIONS	SUPPLY: CFM	ESP	HP	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	COOLING AND HEATING COIL: GPM	EWT °F	LWT °F	EAT °F DB	EAT °F WB	LAT °F DB	LAT °F WB	EXHAUST: CFM	ESP	HP	EAT °F	RH %	LOAD TRANSFER BTU/HR	ELECTRICAL V/PH/HZ	MCA	MOCP	MAX UNIT WEIGHT (LBS)	MANUFACTURER
DOAS-1	SUMMER	2500	1.25	5	95	76	80	68	30	45	55	80.3	-	55.2	-	2500	1.25	5	75	50	72,450	208/1/60	42	50	2172	RENEWAIRE - RD4XRT
	WINTER				8	5	54	43	12.3	180	160	8	-	73	-				70	35	157,500					

NOTES:
1. PROVIDE INTEGRATION WITH VARIABLE REFRIGERANT FLOW SYSTEM.
2. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.
3. REFER TO DETAILS FOR ADDITIONAL REQUIREMENTS. PROVIDE ALL APPURTENANCES FOR THE CHILLED WATER COOILING COIL AND HEATING HOT WATER PREHEAT COIL WITHIN THE PENTHOU

IMC Ventilation Table

System AHU-1 (Single Zone System)

Room	Description	Area Ft2 AZ	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz	Occupant Load Rate Per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C * F/1000 PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Occupant Outdoor Air RpPz	Breathing Zone Outdoor Air Vbz= RpPz + RaAz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz=Vbz/ Ez	Supply Air Design Vpz	Outdoor Air Fraction Zp=Voz/ Vpz
MEETING	Meeting Room	2400	0.06	144	50	120	5	600	744	1	744	6200	0.12
Totals		2400		144		120			744		744	6200	

System Ventilation Efficiency: 1 — Max Zp= 0.12
(IMC 2012 Table 403.3.2.3.2)

Total Required Outdoor Air: 744.00
Total Outdoor Air Provided: 750.00
Percentage of outdoor Air: 12.0%
Percentage of outdoor Air: 12.1%

VARIABLE REFRIGERANT FLOW AIR HANDLING UNIT SCHEDULE

DESIG.	COOLING MBH TC	COOLING MBH SC	HEATING MBH @ 0°F	SF KW CONSUMP.	STYLE	ELECTRICAL V/PH/HZ	ELECTRICAL MCA	CONNECTED TO HP	CONNECTED TO BCC	REMARKS	MANUFACTURER	MODEL
AHU-2	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-3	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-4	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-5	12	9	9	0.2	DUCTED	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PEFY-P12NMAU-E
AHU-6	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-7A	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,5	MITSUBISHI	PLFY-P08NCMU-E
AHU-7B	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,5	MITSUBISHI	PLFY-P08NCMU-E
AHU-8	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-9	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-10	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-11	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-12A	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,6	MITSUBISHI	PLFY-P08NCMU-E
AHU-12B	8	6	6	0.2	CEILING	208/1/60	1	1	1A	1,2,3,4,6	MITSUBISHI	PLFY-P08NCMU-E
AHU-13	30	22	22	0.2	DUCTED	208/1/60	1	1	1A	1,2,3,4	MITSUBISHI	PEFY-P30NMHU-E
AHU-14	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-15	15	11	11	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P15NCMU-E
AHU-16	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-17	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-18	36	27	27	0.2	DUCTED	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PEFY-P36NMHU-E
AHU-19A	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4,7	MITSUBISHI	PLFY-P08NCMU-E
AHU-19B	8	6	6	0.2	CEILING	208/1/60	1	1	1B	1,2,3,4,7	MITSUBISHI	PLFY-P08NCMU-E
AHU-20	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-21	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-22	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-23	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-24	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-25	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-26	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-27	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-28	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-29	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-30	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-31	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-32	8	6	6	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-33A	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-33B	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-33C	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P12NCMU-E
AHU-33D	15	11	11	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,8	MITSUBISHI	PLFY-P15NCMU-E
AHU-34A	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,9	MITSUBISHI	PLFY-P12NCMU-E
AHU-34B	12	9	9	0.2	CEILING	208/1/60	1	2	2A	1,2,3,4,9	MITSUBISHI	PLFY-P12NCMU-E
AHU-35	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-36	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-37	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-38	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-39	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-40	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P08NCMU-E
AHU-41	15	11	11	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P15NCMU-E
AHU-42A	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4,10	MITSUBISHI	PLFY-P08NCMU-E
AHU-42B	8	6	6	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4,10	MITSUBISHI	PLFY-P08NCMU-E
AHU-43	12	9	9	0.2	CEILING	208/1/60	1	2	2B	1,2,3,4	MITSUBISHI	PLFY-P12NCMU-E
AHU-44	12	9	9	0.03	WALL	208/1/60	1	1	1B	1,2,3,4	MITSUBISHI	PKFY-P12NHMU-E

NOTES:
1. U.L. LISTED
2. WALL MNT. T'STAT
3. WASHABLE FILTER
4. B.I. CONDENSATE PUMP
5. WALL MNT. T'STAT - 7A & 7B ARE CONTROLLED BY THE SAME T'STAT
6. WALL MNT. T'STAT - 12A & 12B ARE CONTROLLED BY THE SAME T'STAT
7. WALL MNT. T'STAT - 19A & 19B ARE CONTROLLED BY THE SAME T'STAT
8. WALL MNT. T'STAT - 33A, 33B, 33C, & 33D ARE CONTROLLED BY THE SAME T'STAT
9. WALL MNT. T'STAT - 34A & 34B ARE CONTROLLED BY THE SAME T'STAT
10. WALL MNT. T'STAT - 42A & 42B ARE CONTROLLED BY THE SAME T'STAT

VARIABLE REFRIGERANT FLOW HEAT PUMP OUTDOOR UNIT SCHEDULE

DESIG.	COOLING TC MBH @ 95°F	HEATING TC MBH @ 47°F	HEATING TC MBH @ 0°F	ELECTRICAL V/PH/HZ	MCA	MOCP	APPROX. UNIT WEIGHT (lbs)	REMARKS	MANUFACTURER	MODEL
VRF-1	192	215	215	208/3/60	60/54	80/80	1105	1,2,3,4	MITSUBISHI	PURY-HP192TSKMU-A-H
VRF-2	192	215	215	208/3/60	60/54	80/80	1105	1,2,3,4	MITSUBISHI	PURY-HP192TSKMU-A-H

NOTES:
1. UL LISTED
2. SNOW SENSOR
3. DUAL SOURCE POWER
4. LOW AMBIENT CONTROL TO 0°F

IMC Ventilation Table

System DOAS-1 (Dedicated Outdoor Air Unit for VRF Zones)

Room	Description	Area Ft2 AZ	Area Outdoor Air Rate Per IMC Table 403.3 RA	Area Outdoor RaAz	Occupant Load Rate Per IMC Table 403.3 (People/ 1000 ft2)	Occupancy C * F/1000 PZ	Occupant Outdoor Air Rate Per Table 403.3 Rp	Occupant Outdoor Air RpPz	Breathing Zone Outdoor Air Vbz= RpPz + RaAz	Zone Air Distribution Effectiveness Ez	Zone Outdoor Air Voz=Vbz/ Ez	Supply Air Design Vpz
LOBBY	Lobby	177	0.06	10.62	10	1.77	5	8.85	19.47	1	19.47	50
CONF RM	Conference	165	0.06	9.9	5	0.825	5	4.125	14.025	1	14.025	50
RECEPTION	Reception	550	0.06	33	30	16.5	5	82.5	115.5	1	115.5	120
VIDEO MEDIA	Office	180	0.06	10.8	5	0.9	5	4.5	15.3	1	15.3	50
LUNCH ROOM	Break Room	525	0.12	63	25	13.125	5	65.625	128.625	1	128.625	130
COMMIS	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
COMMIS	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
COMMIS PRES	Office	160	0.06	9.6	5	0.8	5	4	13.6	1	13.6	50
COMMIS	Office	85	0.06	5.1	5	0.425	5	2.125	7.225	1	7.225	50
COMMIS	Office	85	0.06	5.1	5	0.425	5	2.125	7.225	1	7.225	50
CNTY ADMIN	Office	220	0.06	13.2	5	1.1	5	5.5	18.7	1	18.7	50
ASST ADMIN	Office	130	0.06	7.8	5	0.65	5	3.25	11.05	1	11.05	50
CNTY CLERK	Office	420	0.06	25.2	5	2.1	5	10.5	35.7	1	35.7	50
COPIER RM	Office	100	0.06	6	5	0.5	5	2.5	8.5	1	8.5	50
LAW LIBRARY	Office	640	0.06	38.4	5	3.2	5	16	54.4	1	54.4	55
CNTY ATTY	Office	200	0.06	12	5	1	5	5	17	1	17	50
DPTY ATTY	Office	170	0.06	10.2	5	0.85	5	4.25	14.45	1	14.45	50
ASST ATTY	Office	170	0.06	10.2	5	0.85	5	4.25	14.45	1	14.45	50
LEGAL ASST	Office	175	0.06	10.5	5	0.875	5	4.375	14.875	1	14.875	50
SECURITY POST	Reception	1000	0.06	60	30	30	5	150	210	1	210	225
MAIL ROOM	Office	345	0.06	20.7	5	1.725	5	8.625	29.325	1	29.325	50
CORRIDOR	Corridor	800	0.06	48	0	0	0	0	48	1	48	50
LOBBY	Lobby	700	0.06	42	10	7	5	35	77	1	77	80
OFFICE	Office	110	0.06	6.6	5	0.55	5	2.75	9.35	1	9.35	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OFFICE	Office	235	0.06	14.1	5	1.175	5	5.875	19.975	1	19.975	50
OFFICE	Office	150	0.06	9	5	0.75	5	3.75	12.75	1	12.75	50
OFFICE	Office	200	0.06	12	5	1	5	5	17	1	17	50
OFFICE	Office	150	0.06	9	5	0.75	5	3.75	12.75	1	12.75	50
OFFICE	Office	160	0.06	9.6	5	0.8	5	4	13.6	1	13.6	50
KITCHENETTE	Break Room	110	0.06	6.6	50	5.5	5	27.5	34.1	1	34.1	50
CONF RM	Conference	400	0.06	24	50	20	5	100	124	1	124	125
OFFICE	Office	190	0.06	11.4	5	0.95	5	4.75	16.15	1	16.15	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OFFICE	Office	135	0.06	8.1	5	0.675	5	3.375	11.475	1	11.475	50
OPEN OFFICE	Office	720	0.06	43.2	5	3.6	5	18	61.2	1	61.2	65
BASEMENT OFFICES	Office	2600	0.06	156	5	13	5	65	221	1	221	250
Totals		12627		789.12		135.72			1467.72		1467.72	2500

System Ventilation Efficiency: 1 — Max Zp= 1
(IMC 2012 Table 403.3.2.3.2)

Total Required Outdoor Air: 1,467.72
Total Outdoor Air Provided: 2,500.00
Percentage of Outdoor Air: 58.7%
Percentage of Outdoor Air: 100.0%

FAN SCHEDULE

DESIG.	SERVICE	AIR FLOW (CFM) MAX.	AIR FLOW (CFM) MIN.	E.S.P. (INCHES W.G.)	FAN RPM	DRIVE TYPE	HP / WATTS	VOLT/PHASE HZ	NOTES	MANUFACTUER
SF-1	AHU-1 SUPPLY AIR	6200	1900	1.25	2250	BELT	7.5 HP	208V/3Ø/60HZ	1	YORK - DWDI - AF- 15x15
RF-1	AHU-1 RETURN AIR	5450	1150	1.25	3500	DIRECT	5 HP	208V/3Ø/60HZ	2	GREENHECK - AX-47-190
EF-1	1512 MEN	240	240	0.375	1150	DIRECT	166 W	120V/1Ø/60HZ	3,4,5	SOLER & PALAU - FF250
EF-2	1513 WOMEN	240	240	0.375	1150	DIRECT	166 W	120V/1Ø/60HZ	3,4,5	SOLER & PALAU - FF250

NOTES:
1. FAN SUPPLIED WITH AIR HANDLING UNIT AND VFD.
2. INTEGRATE INLINE RETURN FAN WITH AHU-1 CONTROLS. PROVIDE VFD FOR FAN (ABB MODEL: ACH550, WITH BYPASS AND INTEGRAL DISCONNECT).
3. PROVIDE BACKDRAFT DAMPER.
4. PROVIDE ISOLATION KIT.
5. PROVIDE FAN SPEED CONTROL.

PUMP SCHEDULE

DESIG.	LOCATION	SERVICE	CAPACITY (GPM)	HEAD (FT. W.G.)	MOTOR HP	VOLT/PHASE HZ	REMARKS
P-1	PENTHOUSE	HEATING HOT WATER	55	40	1.5	208V/1Ø/60HZ	BELL & GOSSETT SERIES 1510
P-2	PENTHOUSE	AHU-1 PREHEAT	30	20	0.25	208V/1Ø/60HZ	BELL & GOSSETT SERIES 60
P-3	PENTHOUSE	DOAS-1 PREHEAT	25	25	0.25	208V/1Ø/60HZ	BELL & GOSSETT SERIES 60

NOTES:
1. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.

EXPANSION TANK

DESIG.	LOCATION	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	FILL PRESSURE (PSIG)	RELIEF VALVE SETTING (IN)	REMARKS
ET-1	PENTHOUSE	HEATING HOT WATER	8	5	40	150	TACO - PAX-30

STEAM - TO - WATER CONVERTER SCHEDULE

DESIG.	SERVICE	HEATING CAPACITY MBH	GPM	EWT (°F)	LWT (°F)	CONTROL VALVE (LBS/HR)	TRAP (LBS/HR)	STEAM PRESSURE ENTERING SHELL (PSIG)	REMARKS
C-1	HEATING HOT WATER	460	55.0	160	180	550	1650	5.0	TACO - E10206S

NOTES:
1. HEATING HOT WATER SHALL BE 30% PROPYLENE GLYCOL.

BRANCH CIRCUIT CONTROLLER SCHEDULE

DESIG.	BRANCH NUMBERS	VOLTAGE	MCA	MOCP	APPROX. UNIT WEIGHT (LBS)	REMARKS	MANUFACTURER	MODEL
BCC-1A	16	208V/1Ø/60HZ	2	15	180	U.L., MAIN	MITSUBISHI	CMB-P1016NU-GA
BCC-1B	8	208V/1Ø/60HZ	1	15	100	U.L., SUB	MITSUBISHI	CMB-P108NU-GB
BCC-2A	16	208V/1Ø/60HZ	2	15	180	U.L., MAIN	MITSUBISHI	CMB-P1016NU-GA
BCC-2B	8	208V/1Ø/60HZ	1	15	100	U.L., SUB	MITSUBISHI	CMB-P108NU-GB
BCC-2C	16	208V/1Ø/60HZ	2	15	180	U.L., SUB	MITSUBISHI	CMB-P1016NU-HB

AIR DEVICE SCHEDULE

DESIG.	SERVICE	DESCRIPTION	NOMINAL SIZE (INCHES)	# OF SLOTS/ WIDTH (INCHES)	INLET NECK SIZE (INCHES)	MAX N.C. LEVEL	FINISH	REMARKS
RAG-1	RETURN	RETURN GRILLE	22"x22"	-	6"Ø	20	#26 FINISH	50F
RAG-2	RETURN	RETURN GRILLE	10"x10"	-	10"x10"	20	#26 FINISH	350 RL TYPE 1
RAG-3	RETURN	RETURN GRILLE	22"x22"	-	22"x22"	20	#26 FINISH	350 RL TYPE 1
EAG-1	EXHAUST	EXHASUT GRILLE	8"x8"	-	8"x8"	20	#26 FINISH	350 RL TYPE 1
LD	SUPPLY/RETURN	LINEAR DIFFUSER	48"x4"	2 / 3/4"	8"ø	24	#26 FINISH	TBD-30
CD-1	SUPPLY	LOUVERED CEILING DIFFUSER	18"x18"	-	6"ø	24	#26 FINISH	TDC, TYPE 3, 24"x24" MODULE
CD-2	SUPPLY	LOUVERED CEILING DIFFUSER	18"x18"	-	8"ø	24	#26 FINISH	TDC, TYPE 3, 24"x24" MODULE
CD-3	SUPPLY	LOUVERED CEILING DIFFUSER	18"x18"	-	10"ø	24	#26 FINISH	TDC, TYPE 3, 24"x24" MODULE
CD-4	SUPPLY	LOUVERED CEILING DIFFUSER	18"x18"	-	12"ø	24	#26 FINISH	TDC, TYPE 3, 24"x24" MODULE
CD-5	SUPPLY	LOUVERED CEILING DIFFUSER	18"x18"	-	14"ø	24	#26 FINISH	TDC, TYPE 3, 24"x24" MODULE

NOTES:
1. ALL LISTED AIR DEVICE MODEL INFORMATION IS BASED ON TITUS.

THESE AS-BUILTS OR RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE ARCHITECT/ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

1	06-04-18	AS-BUILTS

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
16	RFP #43	11-10-15
17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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REVISION

NO.	DESCRIPTION	DATE
1	ADDENDUM#3	08-28-14
2	ADDENDUM#4	09-03-14
3	SEWER COORD.	11-03-14
4	SEWER COORD.	12-16-14
5	EXHAUST REV.	01-06-15
6	RFP-4R1	01-21-15
7	RFP-13	01-21-15

REVISION

NO.	DESCRIPTION	DATE
8	RFP #16	02-17-15
9	EA DUCT COORD.	02-17-15
10	RFP #26	04-14-15
11	RFP #30	06-02-15
12	RFP #32R2	08-25-15
13	RFP #24	07-31-15
14	RFP #63	08-10-15

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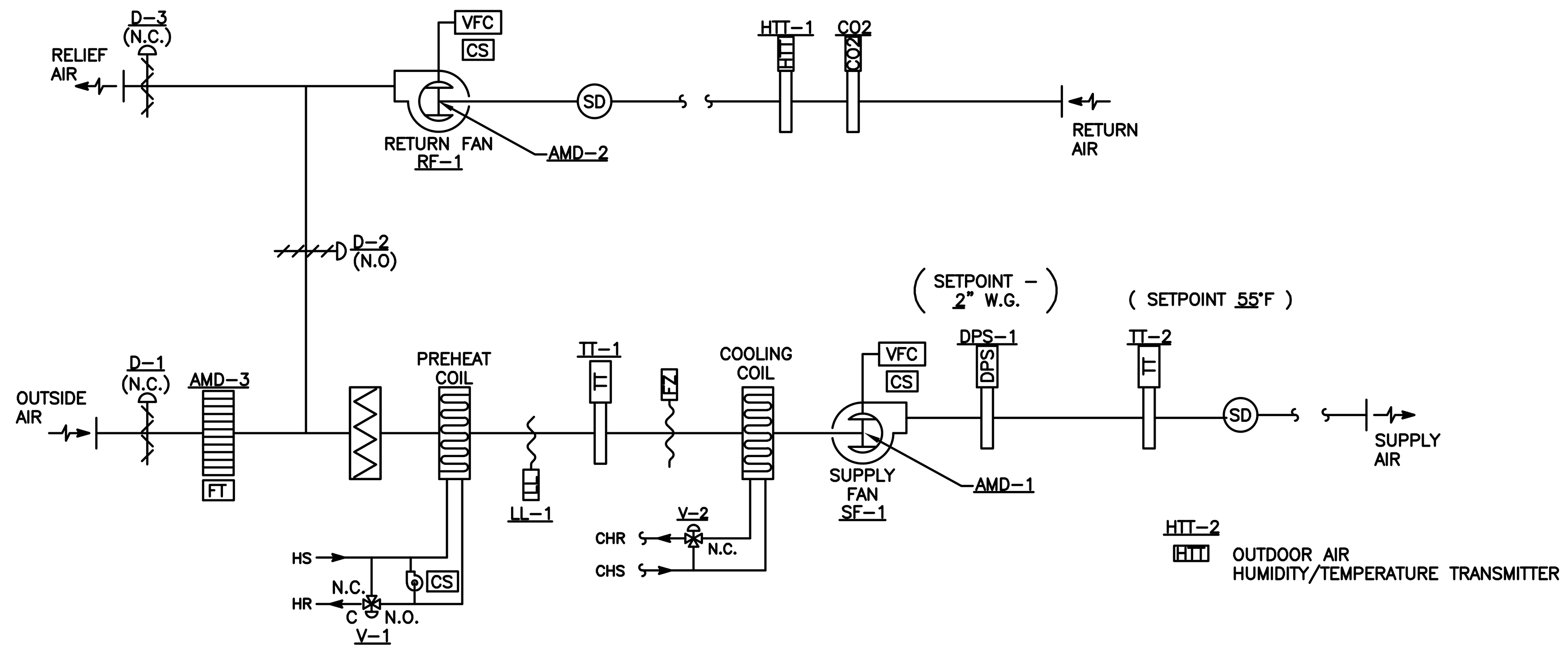
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

SCHEDULES - HVAC

M2.4

DATE : 08.15.14



SINGLE ZONE AIR HANDLING UNIT (AHU-1)

INPUT/OUTPUT SUMMARY

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	INPUTS – ANALOG – MEASURED											INPUTS – ANALOG – CALCULATED								
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	DEW POINT	VACUUM					KWH	ENTHALPY		EFFICIENCY	FLOW	TONS	WETBULB		
NON CRITICAL ZONE AIR HANDLING UNIT																				
SUPPLY AIR	X	X																		
SF-1					X															
COOLING COIL	X																			
PREHEAT COIL	X																			
COIL CIRCULATOR																				
OA D-1					X															
D-2, D-3																				
RETURN AIR	X		X																	
RETURN FAN					X															

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	INPUTS – BINARY										OUTPUTS – DIGITAL							OUTPUTS – ANALOG				
	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER	RUN TIME	DP SWITCH	CURR SWITCH	END SWITCH	OFF-ON	OFF-AUTO-ON	OFF-HI-LOW	OPEN-CLOSE				DAMPER POS	VALVE POS	SET POINT ADJ	AO-E	AO-P
NON CRITICAL ZONE AIR HANDLING UNIT																						
SUPPLY AIR			X																			
SF-1	X								X		X										X	
COOLING COIL				X															X	X		X
PREHEAT COIL																						X
COIL CIRCULATOR	X								X		X											
OA D-1																		X				X
D-2, D-3																		X				X
RETURN AIR			X																			
RETURN FAN	X								X		X											

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	SYSTEM FEATURES – ALARMS										SYSTEM FEATURES – PROGRAMS												GENERAL					SUPPLEMENTARY NOTES
	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	SMOKE	DRIVE FAIL	HIGH STATIC	FAILURE	CRITICAL	TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/START OPT.	ENTHALPY OPT.	SMOKE CONTROL	TREND	ALARM INSTRUCTION	MAIN. WORK ORDER	LEAD/LAG	TOTALIZER	DDC	COLOR GRAPHIC	MANUAL OVERRIDE				
NON CRITICAL ZONE AIR HANDLING UNIT																												
SUPPLY AIR					X	X		X							X								X					
SF-1							X															X						DPS-1, AMD-1
COOLING COIL	X																					X		X				TT-2 & V-2
PREHEAT COIL		X																										TT-1 & V-1
COIL CIRCULATOR																												
OA D-1															X							X						AMD-3, HTT-2
D-2, D-3															X							X						
RETURN AIR						X		X														X						HTT-1
RETURN FAN							X																					AMD-2

MEETING ROOM AIR HANDLING UNIT (AHU-1):

THE AIR HANDLING UNITS SHALL BE CONTROLLED BY THE FACILITY MANAGEMENT CONTROL SYSTEM (FMCS). OCCUPIED/UNOCCUPIED MODES OF OPERATION SHALL BE DETERMINED BY THE FMCS. ALL SAFETY INTERLOCKS SHALL BE HARD WIRED THROUGH THE FAN CONTROLLERS TO BE OPERABLE WHENEVER THE FAN IS IN EITHER "AUTO", "HAND", OF "BYPASS" POSITIONS.

WITH VFD APPLICATIONS THE SAME SHALL APPLY. THE SAFETY DEVICES SHALL BE HARD WIRED.

SMOKE DETECTORS SHALL BE HARD WIRED. WHEN PRODUCTS OF COMBUSTION ARE DETECTED, BOTH THE SUPPLY AND RETURN FANS SHALL BE DE-ENERGIZED. AN ALARM CONDITION SHALL BE SENT TO THE CCMS AND THE FIRE ALARM SYSTEM.

WHEN THE UNIT IS IN THE "STOP" POSITION, THE PREHEAT COIL CONTROL SHALL BE ACTIVE.

"START-STOP" FUNCTION:

"START-STOP" FUNCTION SHALL BE THROUGH THE DDC LOGIC CONTROLLER. WHEN IN THE "STOP" CONDITION, THE SYSTEM IS OFF AND THE CONTROLS ARE IN THEIR NORMAL POSITION. WHEN IN THE "START" CONDITION, RETURN FAN RF-1 SHALL BE ENERGIZED 15 SECONDS (ADJUSTABLE) PRIOR TO ENERGIZING THE SUPPLY FAN.

OUTSIDE AIR DAMPER D-1 SHALL OPEN TO THE MINIMUM POSITION WHENEVER THE SYSTEM IS IN THE "START" POSITION. MINIMUM OUTSIDE AIR SHALL BE MONITORED BY AMD-3.

MORNING WARMP-UP:

WHEN INDEXED TO THE OCCUPIED MODE BY THE TIME SCHEDULE OF THE FMCS, THE SUPPLY AIR FAN SHALL BE ENERGIZED AND RUN CONTINUOUSLY. AN AIR MEASURING DEVICE LOCATED IN THE SUPPLY AIR SHALL MODULATE THE SUPPLY FAN THROUGH THE VARIABLE FREQUENCY DRIVE (VFD) TO MAINTAIN THE SUPPLY AIRFLOW SETPOINT. A DISCHARGE AIR TEMPERATURE SENSOR SHALL MODULATE THE HEATING COIL CONTROL VALVE TO MAINTAIN THE MORNING WARM-UP DISCHARGE AIR TEMPERATURE SETPOINT OF 70 DEGREES F. MORNING WARM-UP MODE SHALL CONTINUE AS LONG AS THE RETURN AIR TEMPERATURE AS SENSED BY HTT-1 IS BELOW 68 DEGREES F. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED, AND THE RETURN AIR DAMPER SHALL BE OPEN. THE COOLING COIL CONTROL VALVE SHALL BE CLOSED. WHEN THE RETURN AIR TEMPERATURE REACHES 68 DEGREES F THE MORNING WARM-UP SEQUENCE SHALL BE COMPLETED AND THE AIR HANDLING UNIT SHALL FUNCTION IN THE OCCUPIED MODE.

OCCUPIED MODE:

WHEN THE MORNING WARM-UP SEQUENCE IS COMPLETE THE OUTDOOR AIR DAMPER SHALL OPEN TO THE MINIMUM POSITION AND THE RETURN AIR DAMPER SHALL CLOSE PROPORTIONALLY. THE AIR MEASURING DEVICE SHALL MODULATE THE SUPPLY FAN THROUGH THE VARIABLE FREQUENCY DRIVE (VFD) TO MAINTAIN SPAACE TEMPERATURE SETPOINT.

UPON A FALL IN SPACE TEMPERATURE, AS SENSED BY HTT-1, BELOW SETPOINT (ADJUSTABLE), THE SUPPLY AIRFLOW SETPOINT SHALL BE REDUCED PROPORTIONATELY TOWARDS THE ADJUSTABLE MINIMUM AIRFLOW SETPOINT. UPON A FURTHER FALL IN SPACE TEMPERATURE THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE INCREASED BY 1 DEGREE F. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL NOT EXCEED 65 DEGREES F.

UPON A RISE IN SPACE TEMPERATURE, AS SENSED BY HTT-1, ABOVE SETPOINT (ADJUSTABLE), THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE REDUCED BY 1 DEGREE F. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL NOT FALL BELOW 55 DEGREES F. UPON A FURTHER RISE IN SPACE TEMPERATURE THE SUPPLY AIRFLOW SETPOINT SHALL BE PROPORTIONATELY INCREASED TO THE MAXIMUM AIRFLOW SETPOINT.

DEHUMIDIFICATION OVERRIDE:

UPON A RISE IN SPACE HUMIDITY, AS SENSED BY HTT-1, ABOVE SETPOINT (ADJUSTABLE), THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL BE REDUCED BY 1 DEGREE F. THE DISCHARGE AIR TEMPERATURE SETPOINT SHALL NOT FALL BELOW 55 DEGREES F.

ENTHALPY COOLING COIL CONTROL:

DISCHARGE TEMPERATURE TRANSMITTER TT-2 SHALL, THROUGH THE DDC LOGIC CONTROLLER, CONTROL THE CHILLED WATER VALVE V-2 TO MAINTAIN ITS ADJUSTABLE SETPOINT. THE CHILLED WATER VALVE SHALL HAVE A SEPARATE CONTROL LOOP.

TEMPERATURE TRANSMITTER TT-1 SHALL, THROUGH THE DDC LOGIC CONTROLLER AND ENTHALPY LOGIC, CONTROL THE OUTSIDE AIR DAMPER D-1, RETURN AIR DAMPER D-2, AND RELIEF AIR DAMPER D-3 TO MAINTAIN ITS ADJUSTABLE SETPOINT. THE SETPOINT OF TT-1 SHALL BY INPUT FROM DISCHARGE TEMPERATURE TRANSMITTER TT-2. THE DAMPERS SHALL HAVE A SEPARATE CONTROL LOOP.

THE ENTHALPY CONTROL INPUT SHALL BE FROM THE CENTRAL OUTSIDE AIR HUMIDITY/TEMPERATURE TRANSMITTER HTT-2 (NEW) AND RETURN AIR HTT-1 LOCATED WITHIN THE RETURN AIR DUCTWORK.

THE CONTROL OF OUTSIDE AND RETURN AIR DAMPERS SHALL BE THROUGH THE ELECTRONIC LOW LIMIT LL-1. IF THE SETPOINT OF LL-1 (40°F ADJUSTABLE) IS EXCEEDED THE OUTSIDE AIR DAMPER SHALL MODULATE TO THE MINIMUM POSITION.

PREHEAT COIL CONTROL:

TEMPERATURE TRANSMITTER TT-1 SHALL, THROUGH THE DDC LOGIC CONTROLLER, CONTROL PREHEAT COIL VALVE V-1 TO MAINTAIN ITS ADJUSTABLE SETPOINT. THE PREHEAT COIL CIRCULATOR PUMP SHALL OPERATE CONTINUOUSLY WHENEVER THE OUTSIDE AIR TEMPERATURE IS BELOW 35°F (ADJUSTABLE).

FAN CONTROL:

THE DDC LOGIC CONTROLLER SHALL CONTROL BOTH THE SUPPLY AND RETURN FANS. THE SUPPLY FAN SPEED, THROUGH THE VARIABLE FREQUENCY CONTROLLER, SHALL BE CONTROLLED FROM INPUT FROM THE AIR MONITORING DEVICE AMD-1 AND SPACE HUMIDITY TEMPERATURE TRANSMITTER HTT-3.

THE RETURN FAN SPEED SHALL BE CONTROLLED THROUGH THE DDC LOGIC CONTROLLER TO MAINTAIN THE ADJUSTABLE DIFFERENTIAL BETWEEN THE SUPPLY AND RETURN. THE DIFFERENTIAL SHALL BE ADJUSTABLE THROUGH THE NETWORK.

INPUT SHALL BE FROM AIR MEASUREMENT DEVICES, LOCATED WITHIN THE SUPPLY AND RETURN FAN INLETS, AND VELOCITY TRANSMITTERS.

DIFFERENTIAL PRESSURE SWITCH, DPS-1, SHALL DE-ENERGIZED SUPPLY FAN, SF-1, AND AN ALARM SHALL SOUND. THIS DEVICE SHALL BE MANUALLY RESET.

UNOCCUPIED MODDE:

WHEN INDEXED TO THE UNOCCUPIED MODE BY THE TIME SCHEDULE OF THE FMCS, THE SUPPLY AIR FAN SHALL BE PLACED UNDER CONTROL OF THE UNOCCUPIED ZONE SENSOR. THIS SENSOR SHALL CYCLE THE SUPPLY AIR FAN TO MAINTAIN THE UNOCCUPIED SETPOINT. THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND THE RETURN AIR DAMPER SHALL REMAIN OPEN. COOLING COIL CONTROL VALVE SHALL REMAIN CLOSED. SAFETY AND EMERGENCY CONTROLS SHALL FUNCTION DURING THE UNOCCUPIED SEQUENCE THE SAME AS DURING THE OCCUPIED SEQUENCE.

MINIMUM OUTDOOR AIR SETPOINT:

MINIMUM OUTDOOR AIR SETPOINT = SUPPLY AIR FLOW SETPOINT X 12%

RETURN AIR SETPOINT:

RETURN AIR FLOW SETPOINT = SUPPLY AIR FLOW X 88%

CO2 OVERRIDE:

UPON A RISE IN CO2 LEVELS AS SENSED BY CO2 SENSOR MOUNTED IN RETURN AIR DUCTWORK, ABOVE SETPOINT (ADJUSTABLE) THE MINIMUM OUTDOOR AIR SETPOINT SHALL BE INCREASED BY 25%.

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1	06-04-18	AS-BUILTS

REVISION

NO.	DESCRIPTION	DATE
15	RFP #42	11-10-15
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17	RFP #44	11-10-15
18	RFI #95	05-05-16
19	RFP #46	06-01-16
20	RFP #54	06-01-16
21	RFP #57	06-27-16
22	RFP#068 ASI#006	09-21-16

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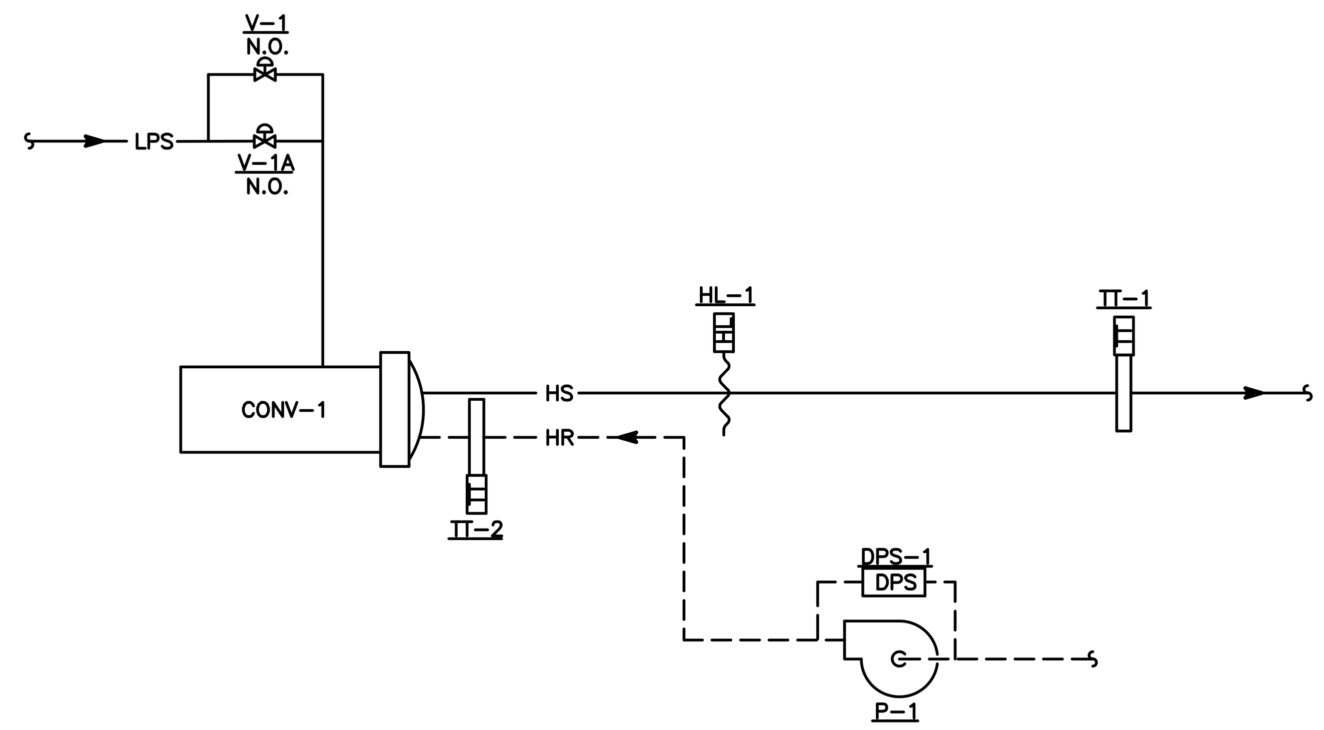
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

AUTOMATIC TEMP. CONTROL

M3.1

11 OF 12 SHEETS

DATE : 08.15.14



STEAM/HOT WATER CONVERTOR CONTROL

STEAM/HOT WATER CONVERTOR:

TEMPERATURE TRANSMITTER TT-1 SHALL MODULATE, THROUGH THE DDC LOGIC CONTROLLER, STEAM VALVES V-1 AND V-1A IN SEQUENCE TO MAINTAIN THE SCHEDULED SETPOINT. PNEUMATIC HIGH LIMIT HL-1 SHALL OVERRIDE THE CONTROL OF STEAM VALVES V-1 AND V-1A IF THE SUPPLY WATER TEMPERATURE EXCEEDS SETPOINT 200°F (ADJUSTABLE).

TEMPERATURE TRANSMITTER TT-2 SHALL PROVIDE INPUT FOR THE RETURN WATER TEMPERATURE.

DIFFERENTIAL PRESSURE SWITCH DPS-1 SHALL PROVIDE INPUT FOR PUMP STATUS. CONTROLLER. DIFFERENTIAL PRESSURE

INPUT/OUTPUT SUMMARY

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	INPUTS: ANALOG: MEASURED											CALCULATED								
	TEMPERATURE	PRESSURE	RH	KW	AIR FLOW	DEW POINT	VACUUM					KWH	ENTHALPY		EFFICIENCY	FLOW	TONS	WETBULB		
HOT WATER HEATING SYSTEM																				
SYSTEM																				
PUMP																				
CONVERTOR	X																			

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	INPUTS: BINARY										OUTPUTS: DIGITAL							OUTPUTS: ANALOG				
	STATUS	FILTER	SMOKE	FREEZE	AIR FLOW	METER	RUN TIME	DP SWITCH	CURR SWITCH	END SWITCH	OFF-ON	OFF-AUTO-ON	OFF-HI-LOW	OPEN-CLOSE				DAMPER POS	VALVE POS	SET POINT ADJ	AO-E	AO-P
HOT WATER HEATING SYSTEM																						
SYSTEM																						
PUMP	X							X			X											
CONVERTOR																						X

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	SYSTEM FEATURES: ALARMS										PROGRAMS											
	HI ANALOG	LOW ANALOG	HI BINARY	LOW BINARY	PROOF	SMOKE	DRIVE FAIL	HIGH STATIC	FAILURE	CRITICAL	TIME SCHEDULING	DEMAND LIMITING	DUTY CYCLE	START/START OPT.	ENTHALPY OPT.	SMOKE CONTROL	TREND	ALARM INSTRUCTION	MAIN. WORK ORDER	LEAD/LAG	TOTALIZER	DDC
HOT WATER HEATING SYSTEM																						
SYSTEM																						X
PUMP																				X	X	X
CONVERTOR			X																			X

SYSTEM APPARATUS OR AREA POINT DESCRIPTION	GENERAL					SUPPLEMENTARY NOTES
	COLOR GRAPHIC	MANUAL OVERRIDE				
HOT WATER HEATING SYSTEM						
SYSTEM	X					
PUMP						P-1
CONVERTOR		X				V-1, V-1A, TT-1, TT-2

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⚠	06-04-18	AS-BUILTS

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AUTOMATIC TEMP. CONTROLS

M3.2

DATE : 08.15.14

REVISION		
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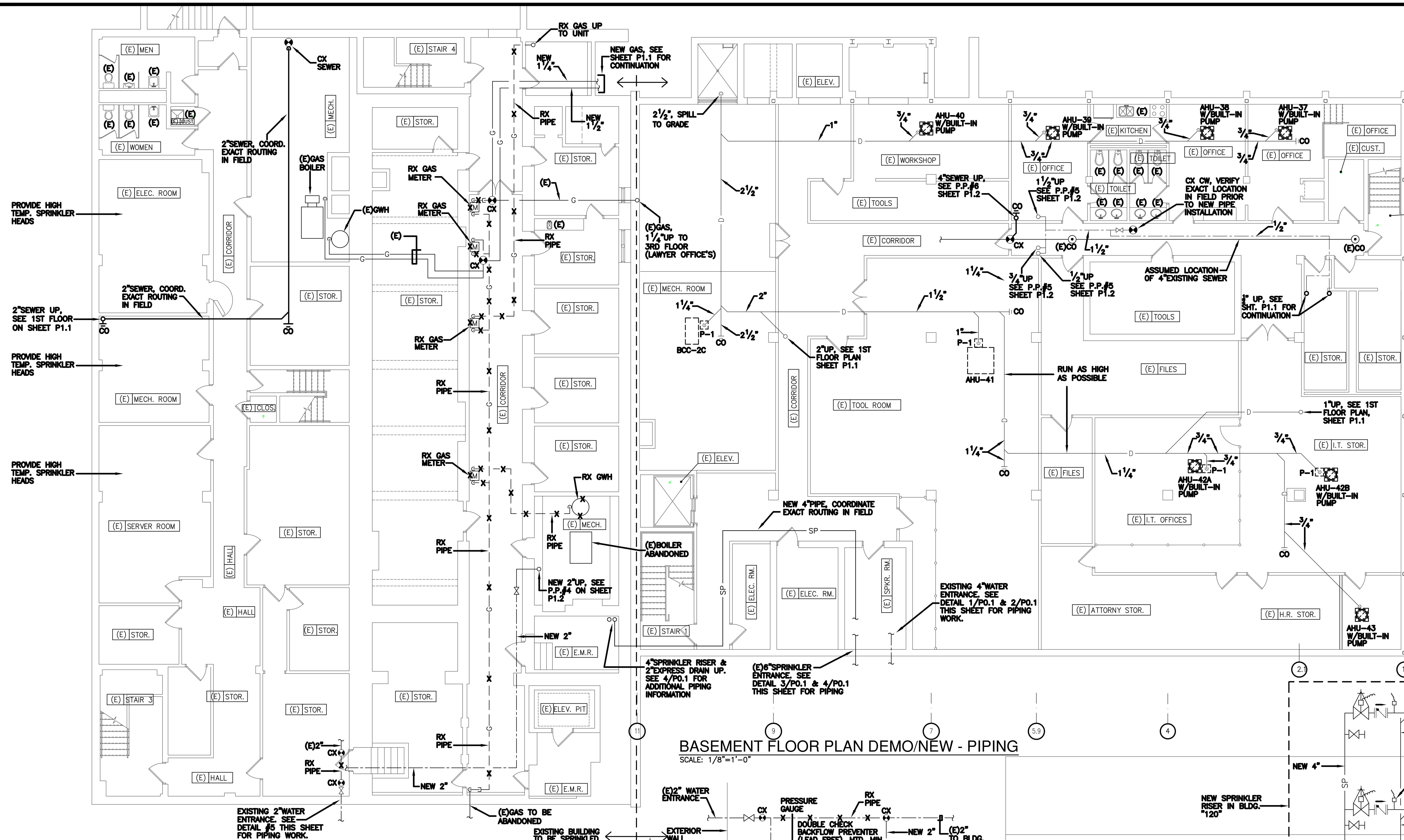
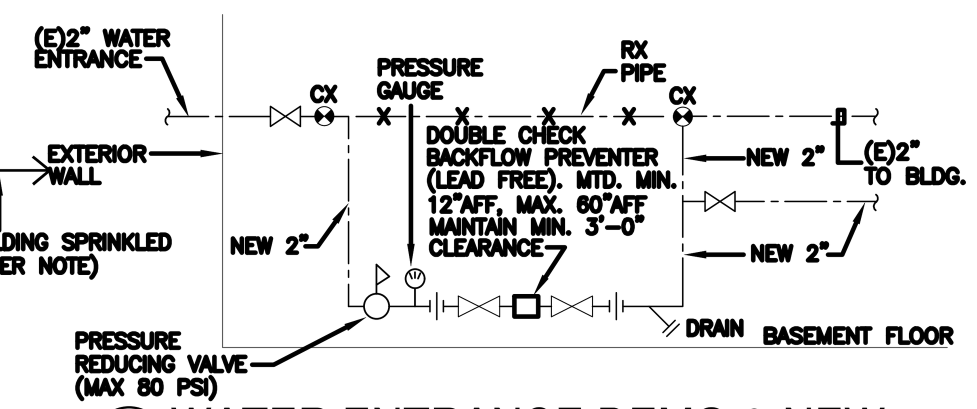
	RFP#068 ASI#006	09-21-16



BASEMENT FLOOR PLAN DEMO/NEW - PIPING

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

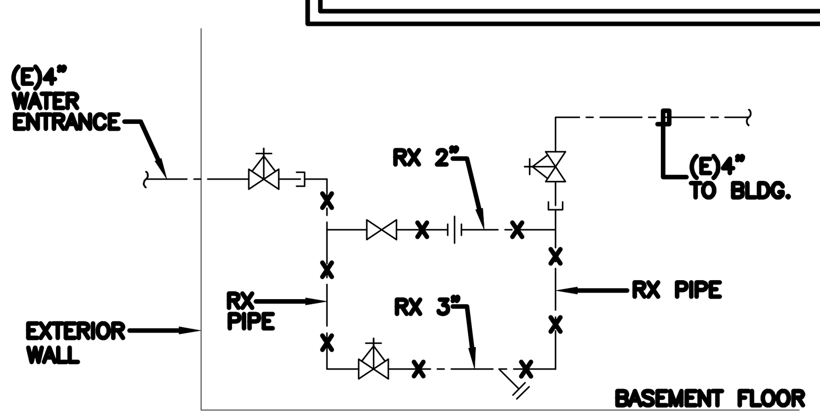


5/P0.1 WATER ENTRANCE DEMO & NEW

NO SCALE

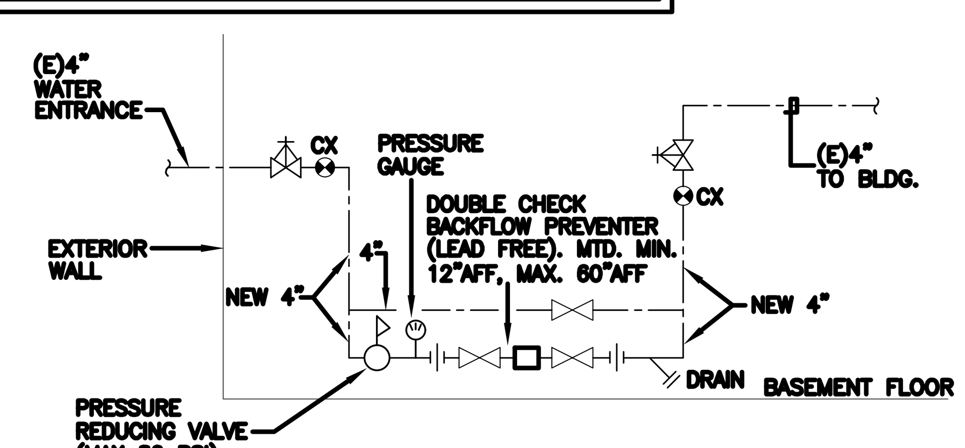
SPRINKLER SYSTEM NOTE

NOTE: REVISE/EXTEND EXISTING SPRINKLER PIPE SYSTEM, MODIFY, RELOCATE PIPE, ADD HEADS AS NECESSARY TO ACCOMMODATE NEW TENANT WALL LAYOUT AS REQUIRED. PROVIDE SPRINKLER DRAWING TO FIRE MARSHAL, INSTALL PER NFPA 13 AND COORDINATE INSTALLATION WITH LOCAL FIRE MARSHAL. BLDG 120 TO RECEIVE NEW SPRINKLER ZONE FOR ALL FLOORS, BLDG 100 IS EXISTING TO BE MODIFIED.



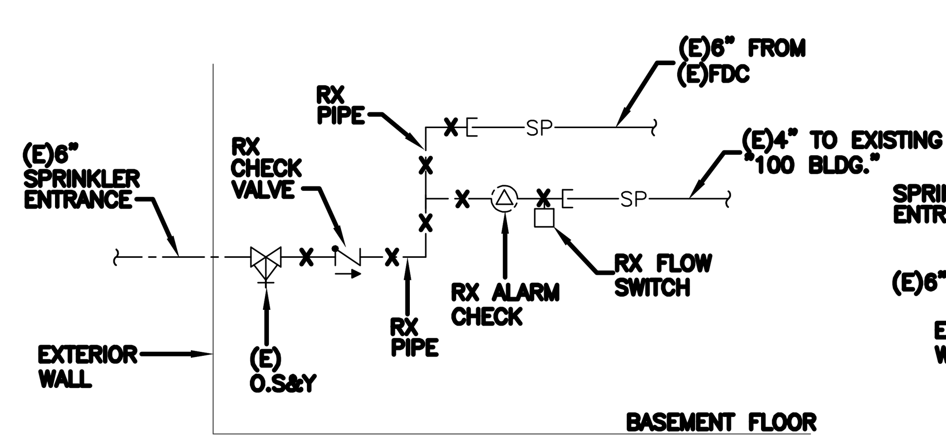
1/P0.1 WATER ENTRANCE DEMO

NO SCALE



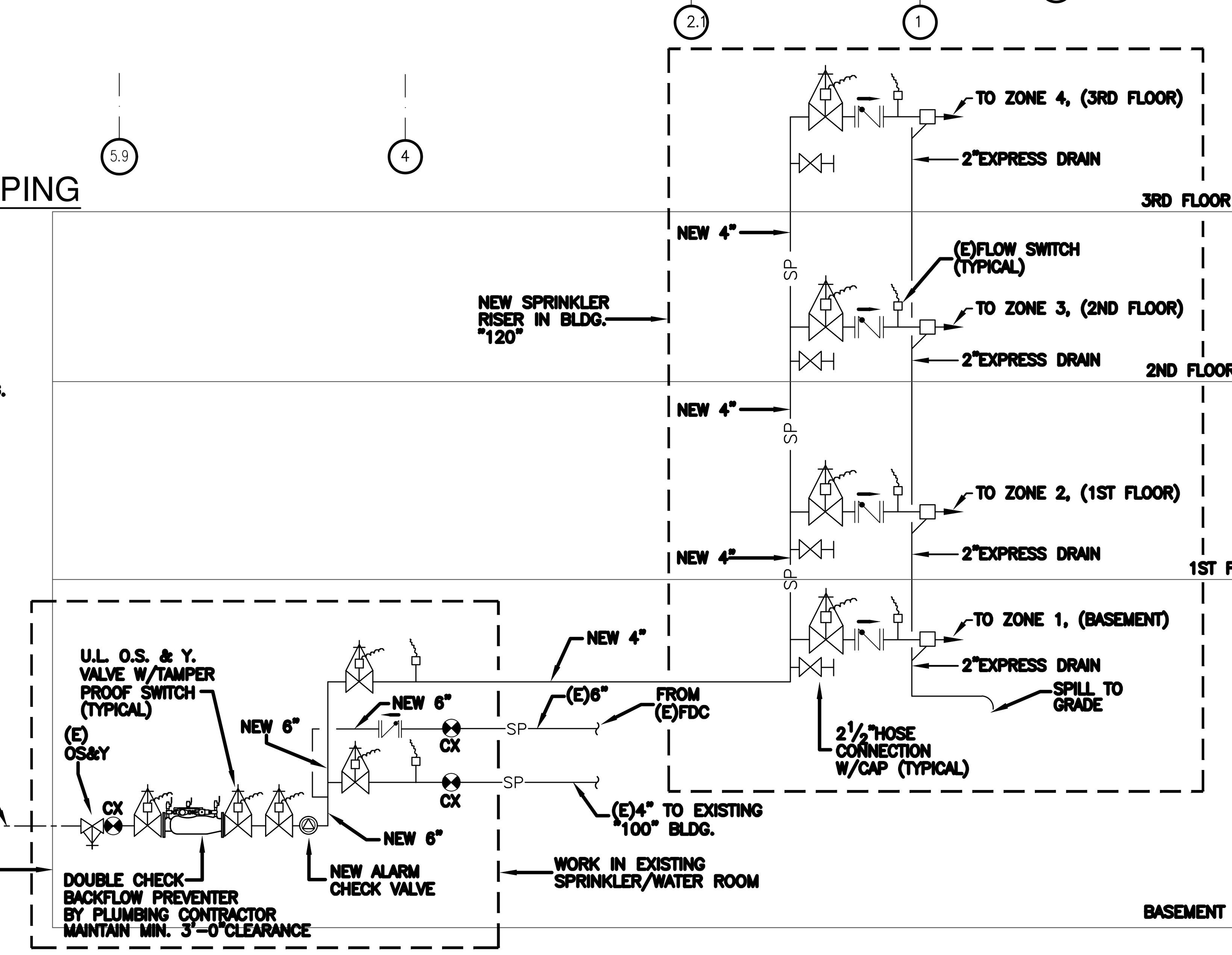
2/P0.1 WATER ENTRANCE NEW

NO SCALE



3/P0.1 SPRINKLER ENTRANCE DEMO

NO SCALE



4/P0.1 SPRINKLER ENTRANCE NEW

NO SCALE

SPRINKLER FLOW DATA (EXISTING PLACARD)

STATIC: 65
RESIDUAL: 60

1/8"=1'-0" 5 0 5 10 15 20 SCALE FEET

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	06-04-18	AS-BUILTS

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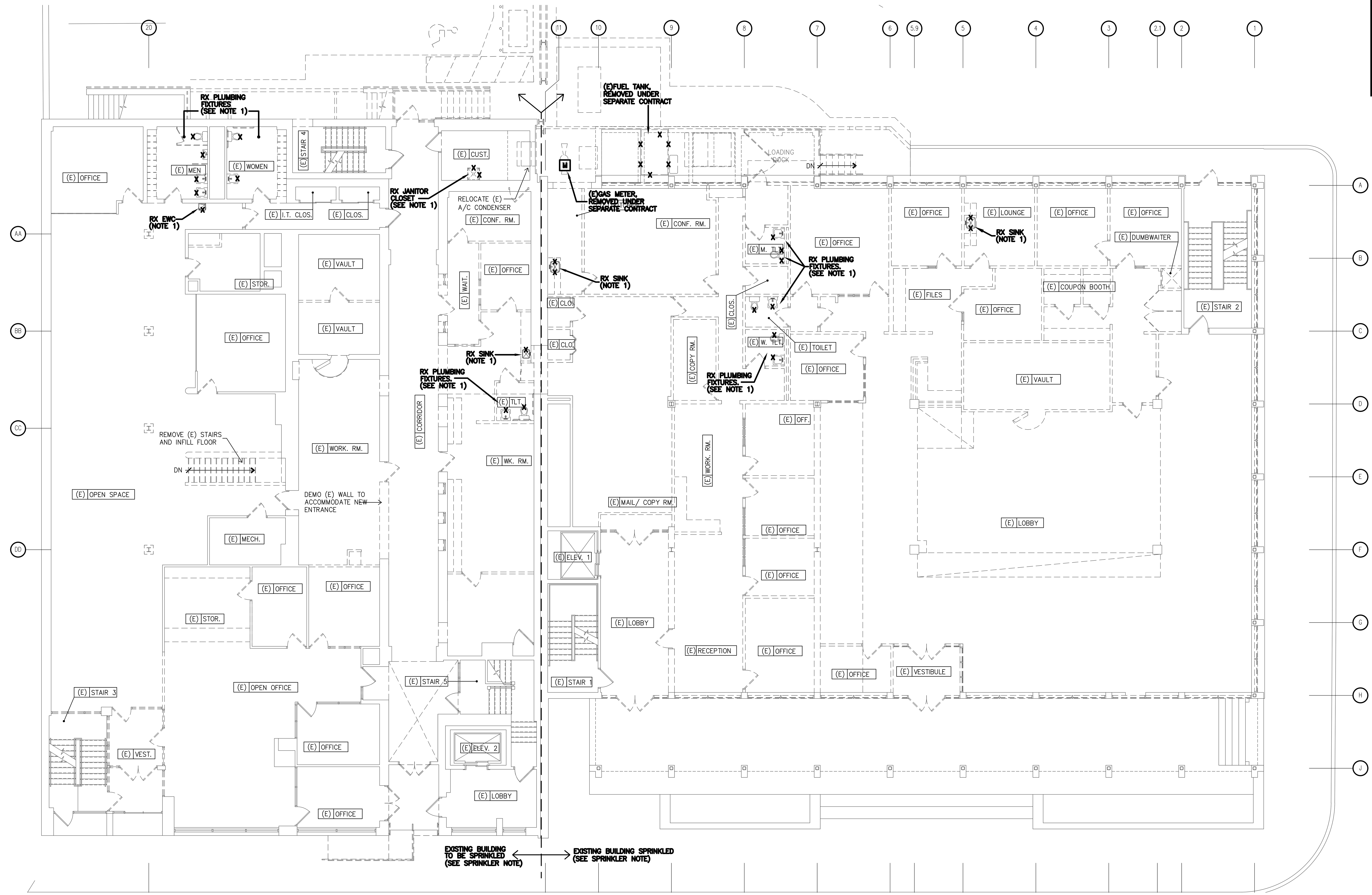
RHL No. 13208 FIRST FLOOR RENOVATIONS

BASEMENT FLOOR PLAN–DEMO/NEW

P0.1

DATE : 08.15.14



FIRST FLOOR PLAN DEMO - PIPING

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

NOTE 1: RX PLUMBING FIXTURES AND ALL ASSOCIATED PIPING. CAP PIPING ABOVE CEILING, BELOW FLOOR OR FLUSH WITH WALL TO ACCOMMODATE NEW ARCH. LAYOUT.

SPRINKLER SYSTEM NOTE

NOTE: REVISE/EXTEND EXISTING SPRINKLER PIPE SYSTEM, MODIFY, RELOCATE PIPE, ADD HEADS AS NECESSARY TO ACCOMMODATE NEW TENANT WALL LAYOUT AS REQUIRED. PROVIDE SPRINKLER DRAWING TO FIRE MARSHAL, INSTALL PER NFPA 13 AND COORDINATE INSTALLATION WITH LOCAL FIRE MARSHAL. BLDG 120 TO RECEIVE NEW SPRINKLER ZONE FOR ALL FLOORS, BLDG 100 IS EXISTING TO BE MODIFIED.

1/8"=1'-0" 5 0 5 10 15 20 SCALE FEET

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NORTH

REVISION

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21	RFP #57	06-27-16
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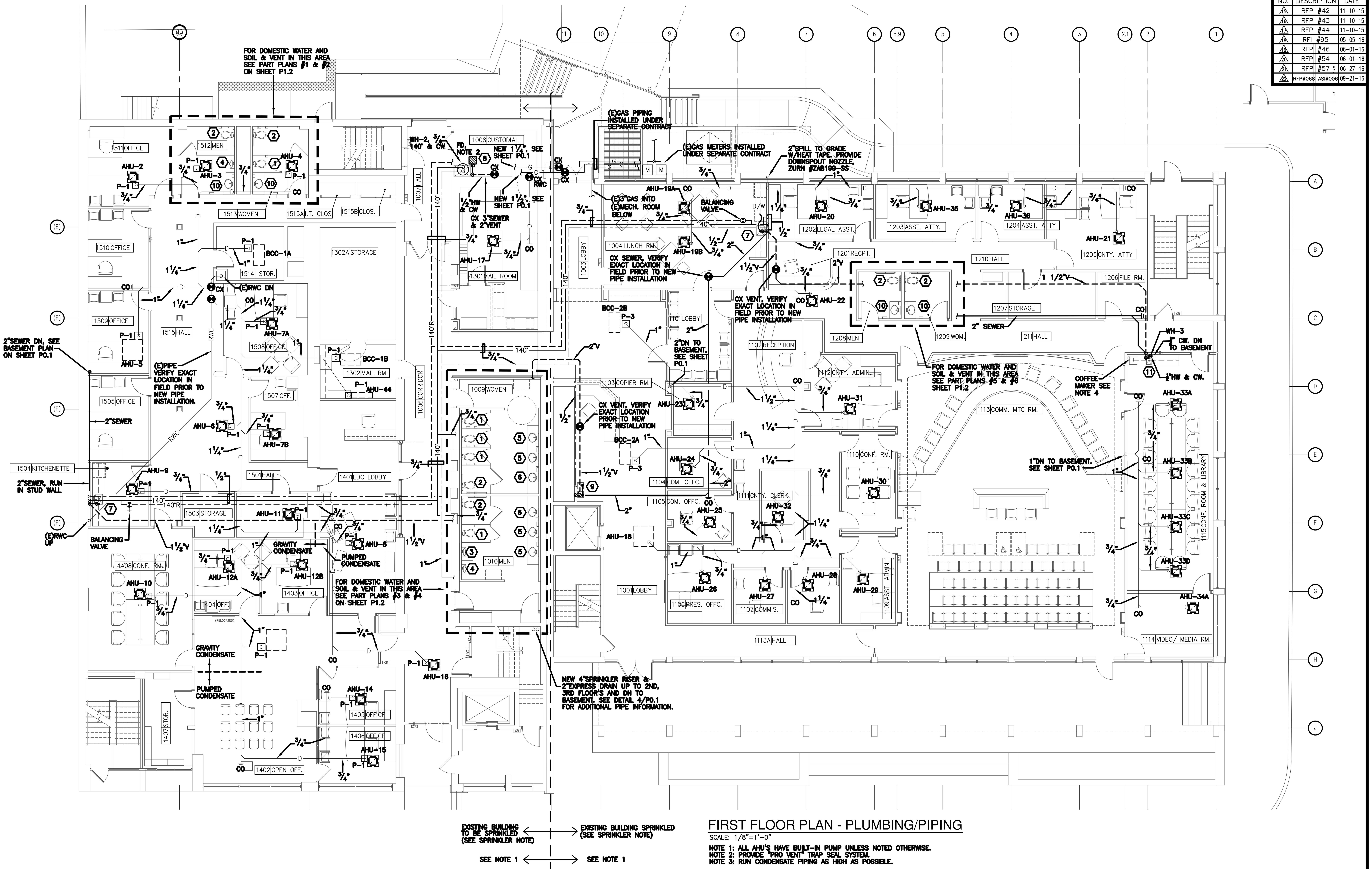
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

FIRST FLOOR PLAN - DEMO

P0.2

DATE : 08.15.14



FIRST FLOOR PLAN - PLUMBING/PIPING

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

NOTE 1: ALL AHU'S HAVE BUILT-IN PUMP UNLESS NOTED OTHERWISE.
NOTE 2: PROVIDE "PRO VENT" TRAP SEAL SYSTEM.
NOTE 3: RUN CONDENSATE PIPING AS HIGH AS POSSIBLE.

NOTE 4: 1/2" CW. PROVIDE BFP, SHUTOFF AND WATER FILTER. COORDINATE LOCATION OF WATER FEED W/OWNER.

SPRINKLER SYSTEM NOTE

NOTE: REVISE/EXTEND EXISTING SPRINKLER PIPE SYSTEM, MODIFY, RELOCATE PIPE, ADD HEADS AS NECESSARY TO ACCOMMODATE NEW TENANT WALL LAYOUT AS REQUIRED. PROVIDE SPRINKLER DRAWING TO FIRE MARSHAL, INSTALL PER NFPA 13 AND COORDINATE INSTALLATION WITH LOCAL FIRE MARSHAL. BLDG 120 TO RECEIVE NEW SPRINKLER ZONE FOR ALL FLOORS, BLDG 100 IS EXISTING TO BE MODIFIED.

1/8"=1'-0" SCALE 5 0 5 10 15 20 FEET

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1	06-04-18	AS-BUILTS

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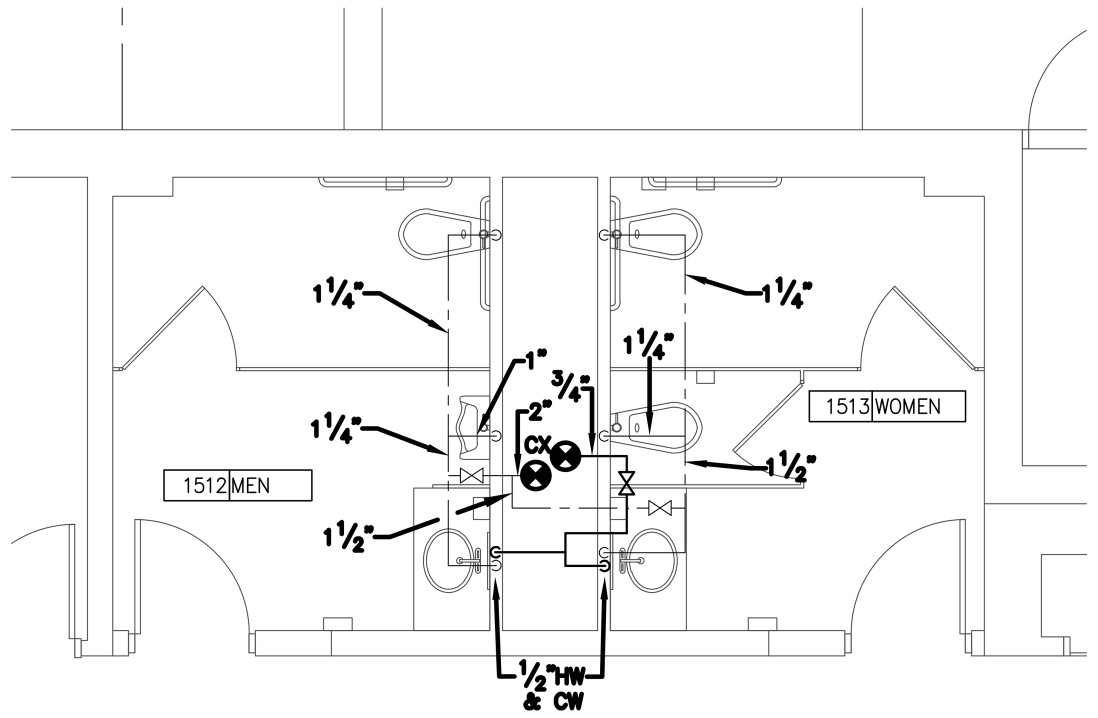
FIRST FLOOR PLAN - NEW

P1.1

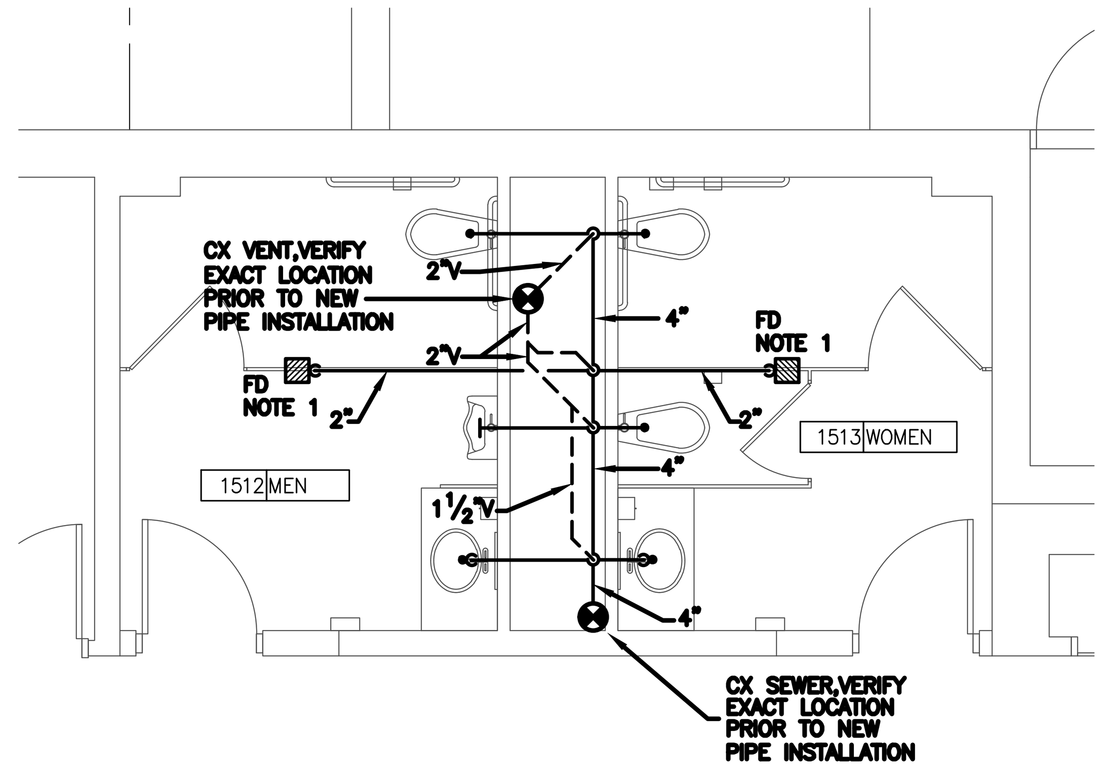
DATE : 08.15.14



PART FLOOR PLAN #1 - DOMESTIC WATER

SCALE: 1/4"=1'-0" (FIRST FLOOR)

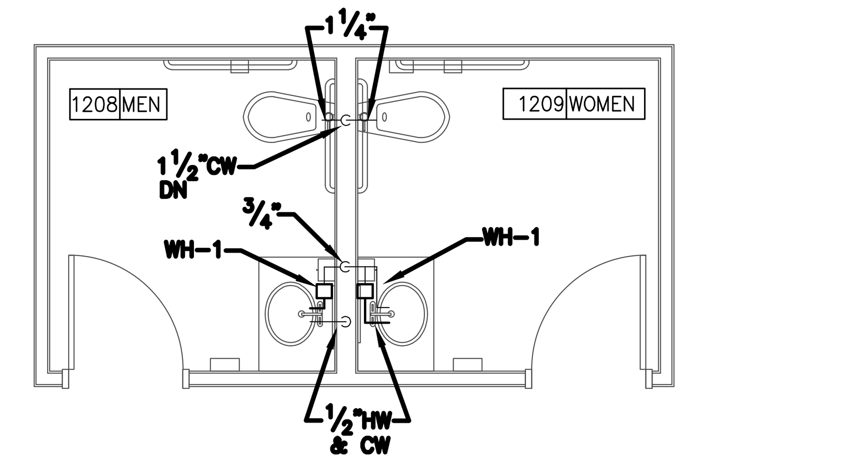
NOTE 1: PROVIDE ACCESS PANELS FOR SHUTOFF VALVES ABOVE DRYWALL CEILINGS.



PART FLOOR PLAN #2 - SOIL AND VENT

SCALE: 1/8"=1'-0" (FIRST FLOOR)

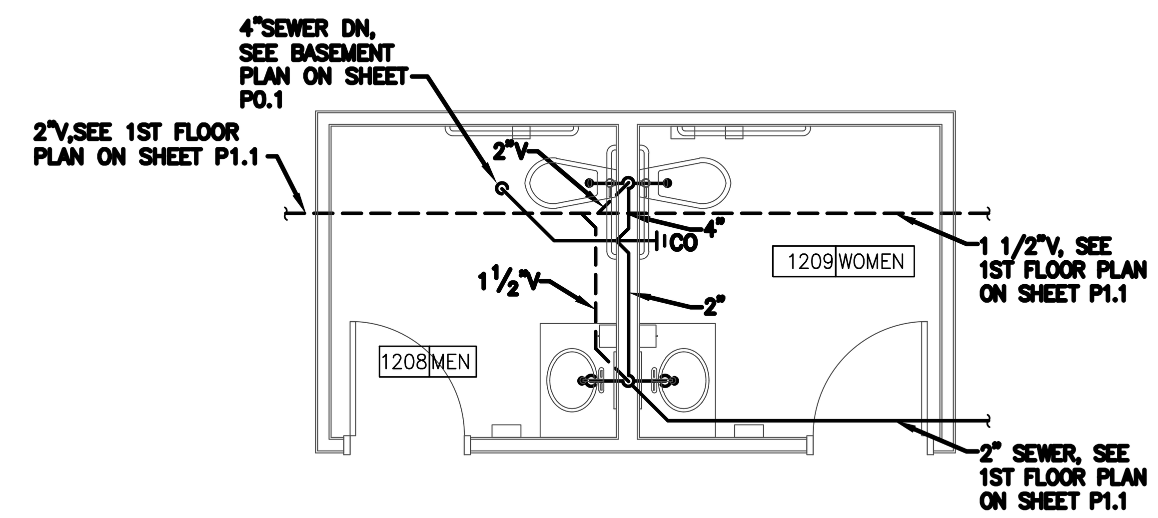
NOTE 1: PROVIDE "PRO VENT" TRAP SEAL SYSTEM.
NOTE 2: SEE SOIL & VENT RISER #1, THIS SHEET.



PART FLOOR PLAN #5 - DOMESTIC WATER

SCALE: 1/4"=1'-0" (FIRST FLOOR)

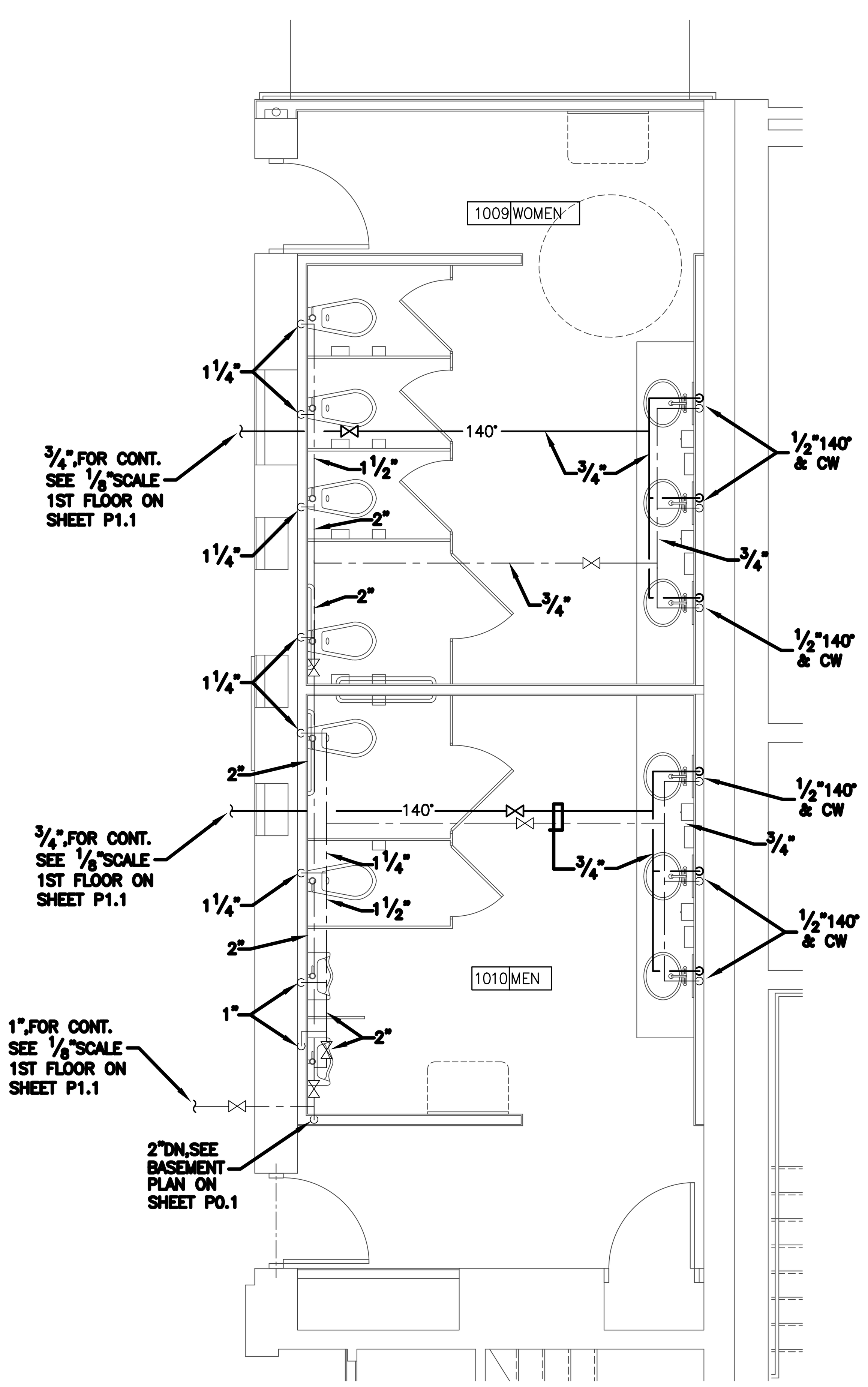
NOTE: COLD WATER PIPES DN, SEE BASEMENT PLAN ON SHEET P0.1.



PART FLOOR PLAN #6 - SOIL AND VENT

SCALE: 1/4"=1'-0" (FIRST FLOOR)

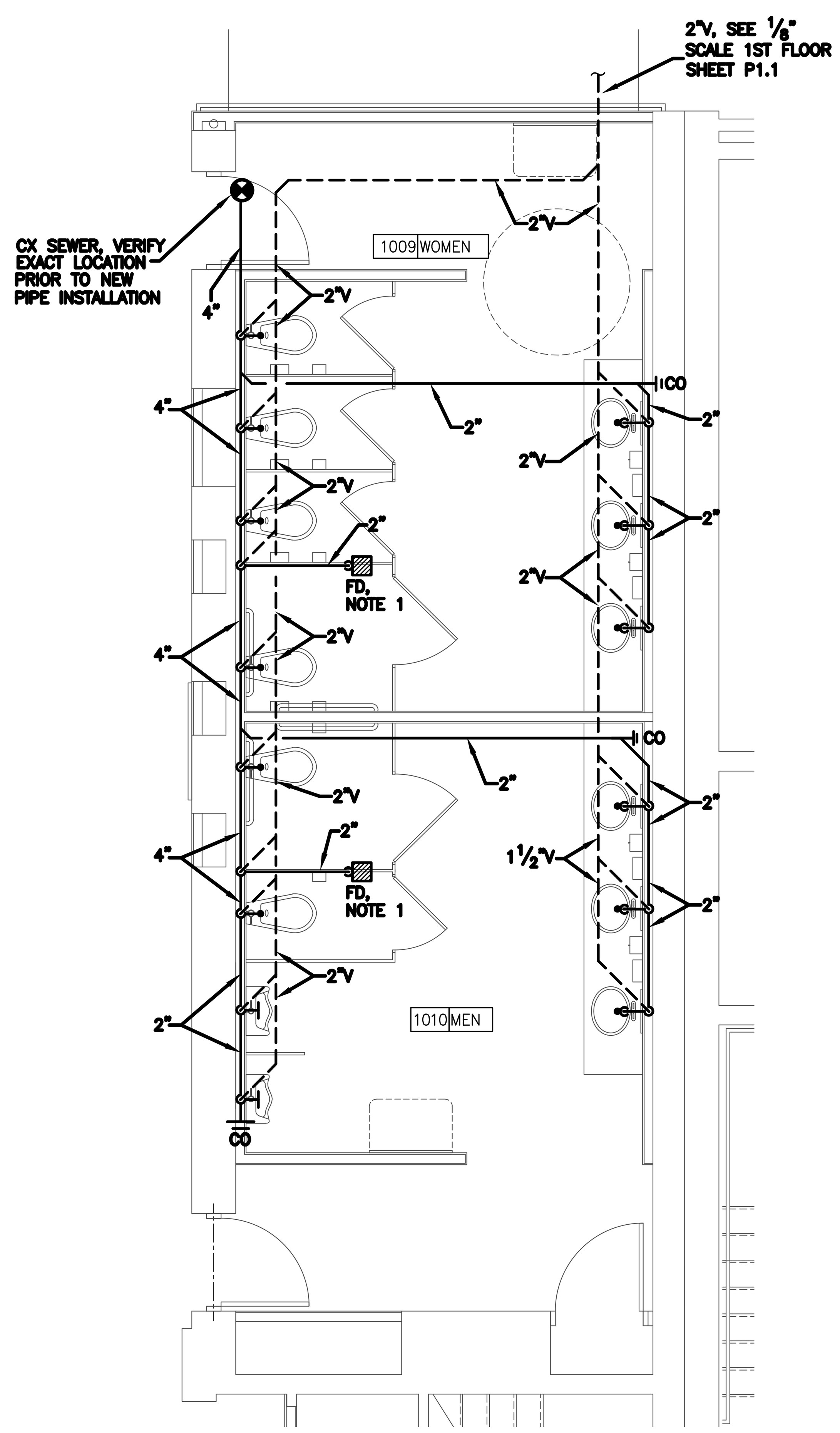
NOTE 1: SEE SOIL & VENT RISER #3, THIS SHEET.



PART FLOOR PLAN #3 - DOMESTIC WATER

SCALE: 1/4"=1'-0" (FIRST FLOOR)

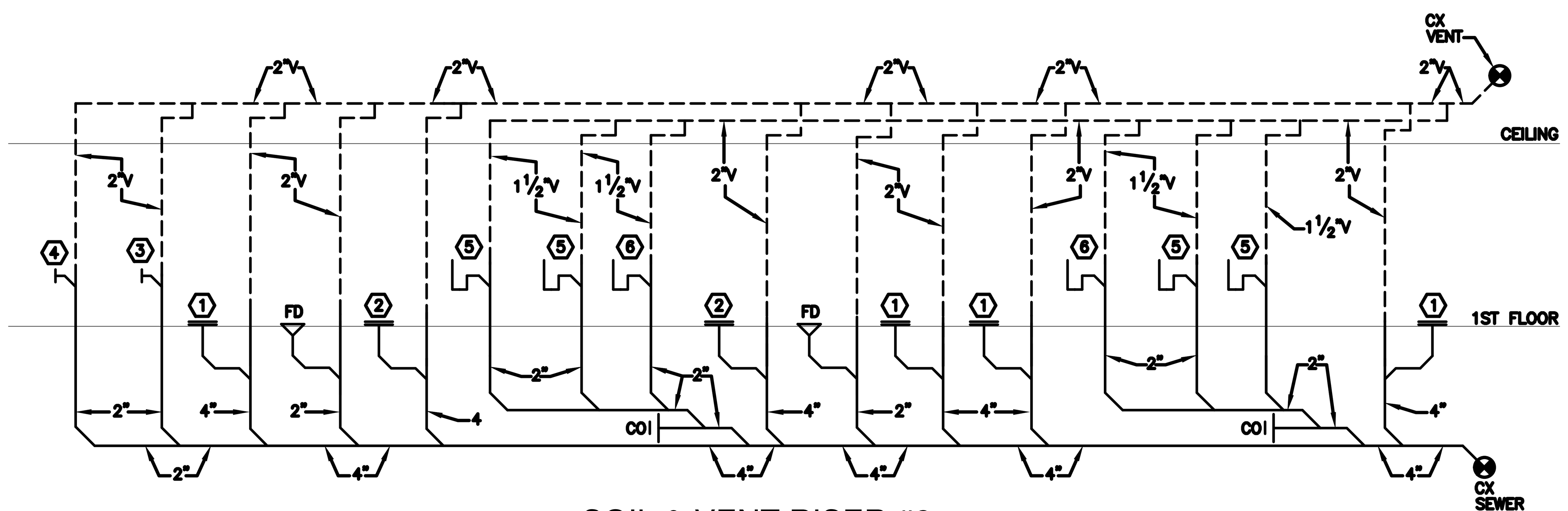
NOTE 1: PROVIDE ACCESS PANELS FOR SHUTOFF VALVES ABOVE DRYWALL CEILINGS.



PART FLOOR PLAN #4 - SOIL AND VENT

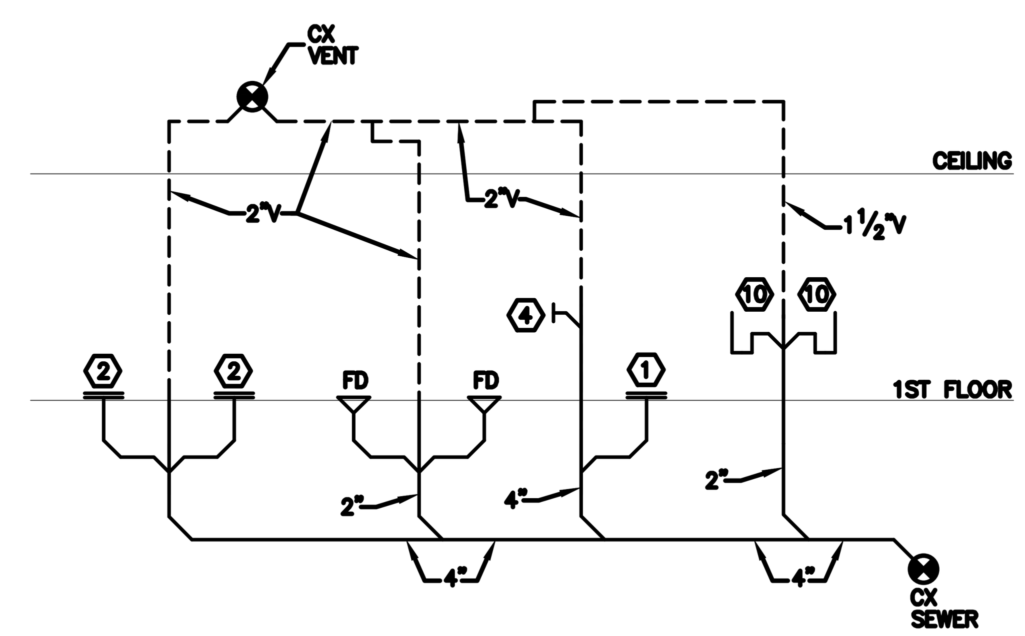
SCALE: 1/4"=1'-0" (FIRST FLOOR)

NOTE 1: PROVIDE "PRO VENT" TRAP SEAL SYSTEM.
NOTE 2: SEE SOIL & VENT RISER #2, THIS SHEET.



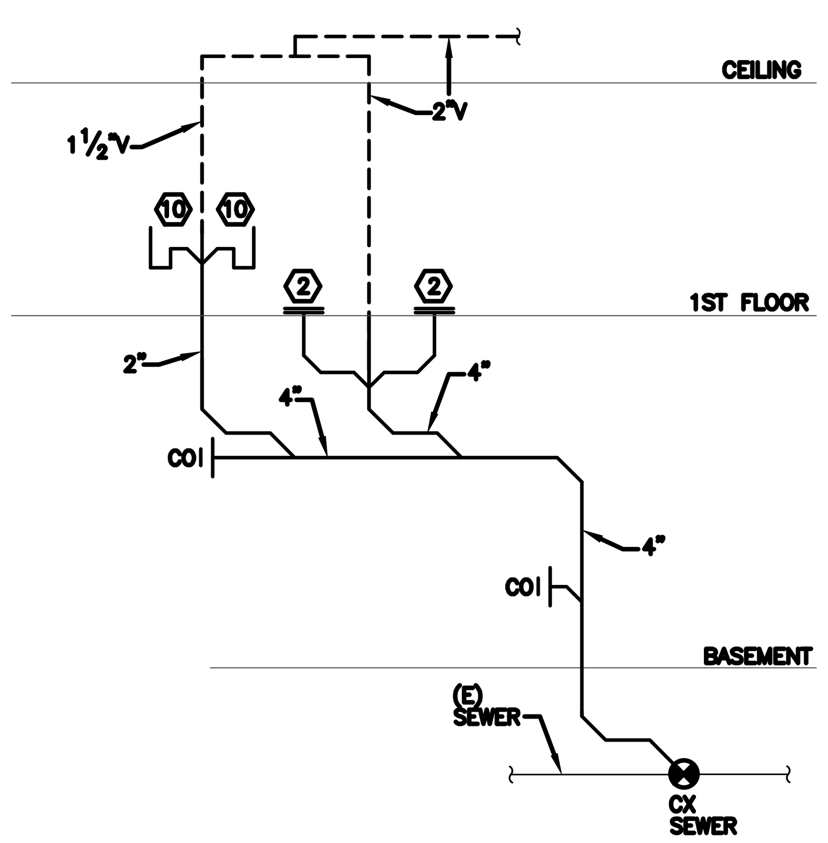
SOIL & VENT RISER #2

NO SCALE



SOIL & VENT RISER #1

NO SCALE



SOIL & VENT RISER #3

NO SCALE

1/8"=1'-0" 5 0 5 10 15 20 SCALE FEET

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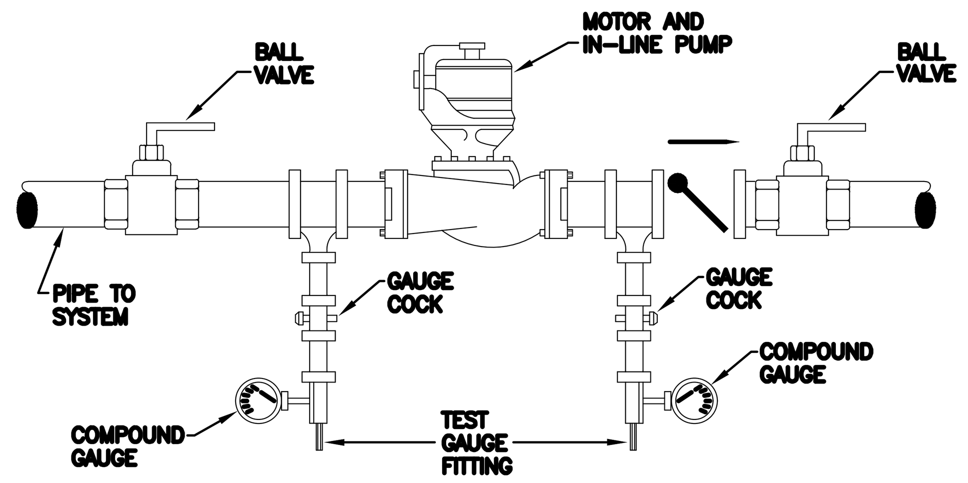
BFM No. 14028 WASH. CO. ADMINISTRATION COMPLEX
RHL No. 13208 FIRST FLOOR RENOVATIONS

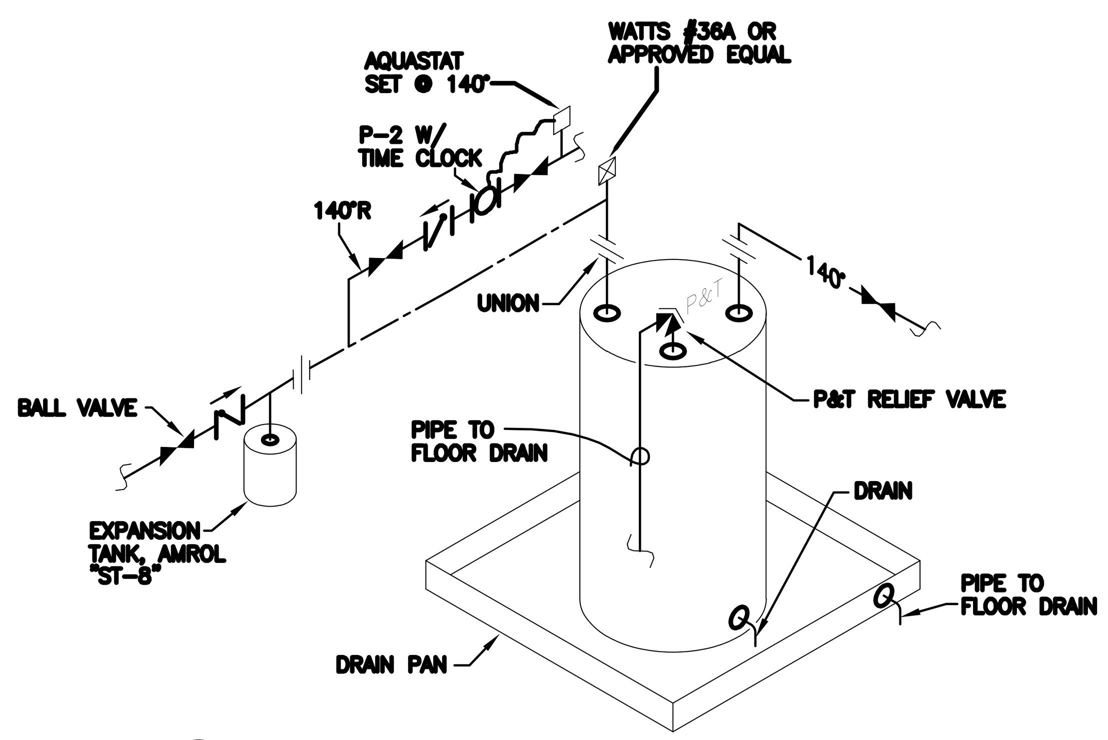
PART FIRST FLOOR PLANS - NEW

P1.2

DATE : 08.15.14



5 / P2.1 IN-LINE PUMP CONNECTIONS
NO SCALE



1 / P2.1 ELECTRIC WATER HEATER SCHEMATIC
NO SCALE
WH-2

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	TRAP	WASTE	CW	HW	MOUNT	MANUF	MODEL	TRIM
1	WATER CLOSET	INTEGRAL	4"	1¼"	—	FLOOR	AMERICAN STANDARD	3453.001	CHURCH SEAT, SLOAN "ECOS" VALVE 8111-1.28
2	WATER CLOSET HANDICAPPED	INTEGRAL	4"	1¼"	—	FLOOR	AMERICAN STANDARD	3463.001	CHURCH SEAT, SLOAN "ECOS" VALVE 8111-1.28
3	URINAL	INTEGRAL	2"	¾"	—	WALL	AMERICAN STANDARD	6590.001	SLOAN "ECOS" VALVE 8186-0.5
4	URINAL HANDICAPPED	INTEGRAL	2"	¾"	—	WALL	AMERICAN STANDARD	6590.001	SLOAN "ECOS" VALVE 8186-0.5
5	LAVATORY	1¼" X 1½"	1½"	½"	½"	WALL	AMERICAN STANDARD	0124.024	SLOAN FAUCET ETF-880-4-BDT-EFT223, POWER MIXING VALVE #LFLM495, TRAP, GRID STRAINER, SUPPLIES AND STOPS ◇◇
6	LAVATORY HANDICAPPED	1¼" X 1½"	1½"	½"	½"	WALL	AMERICAN STANDARD	0124.024	SLOAN FAUCET ETF-880-4-BDT-EFT223, POWER MIXING VALVE #LFLM495, TRAP, GRID STRAINER, SUPPLIES AND STOPS ◇◇ △*
7	ADA SINK	1½"	1½"	½"	½"	COUNTER	ELKAY	LRAD2219-55-3	DELTA 100LF-HDF FAUCET (1.5 GPM), CUP STRAINER, OFFSET TRAP, SUPPLIES & STOPS. POWERS MIXING VALVE #LFLM495 OO * ◇◇
8	MOP BASIN	3"	3"	¾"	¾"	FLOOR	FIAT	MSB 2424	AMERICAN STANDARD 8344.112 FAUCET
9	EWC HANDICAPPED	1¼" X 1½"	1½"	½"	—	WALL	ELKAY	EZSTL8C	SUPPLY AND STOPS, PROVIDE ADA APRON
10	LAVATORY HANDICAPPED	1¼" X 1½"	1½"	½"	½"	COUNTER	AMERICAN STANDARD	0476.028	SLOAN FAUCET ETF-880-4-BDT-EFT223, POWER MIXING VALVE #LFLM495, TRAP, GRID STRAINER, SUPPLIES AND STOPS ◇◇ △*
11	ADA SINK	1½"	1½"	½"	½"	UNDER COUNTER	ELKAY	ELUHAD141855PD	AMERICAN STANDARD FAUCET #4285.410.F15(1.5 GPM), STAINLESS STEEL, CUP STRAINER, OFFSET TRAP, SUPPLIES & STOPS. * ◇◇

◇◇ PROVIDE LEAD FREE PIPING, FITTINGS AND FIXTURES INTENDED TO DISPENSE WATER FOR HUMAN CONSUMPTION.
* PROVIDE INSULATION KIT (ASTM E84-01), ON SUPPLIES & TRAP.
△ GRID STRAINER
OO GARBAGE DISPOSAL

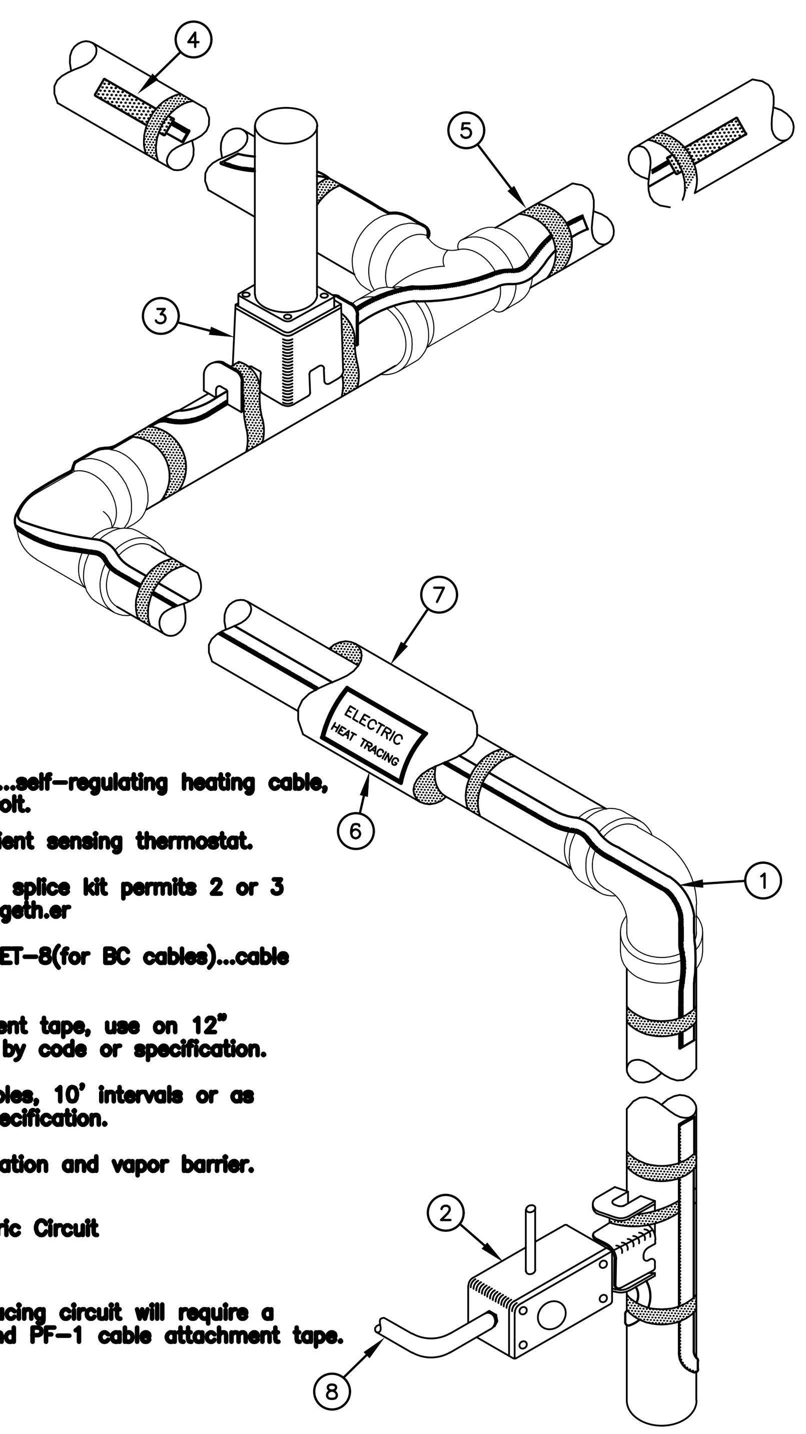
PUMP SCHEDULE

MARK	SYSTEM	GPM	FT. HD	HP	RPM	VOLTAGE	REMARKS	MANUF	MODEL
P-1	CONDENSATE	1	8'	FRAC	1750	120V/1ø	U.L., W/BASIN *	LITTLE GIANT	VCC-20ULS
P-2	RECIRC. PUMP (140°)	8	15'	FRAC	1750	120V/1ø	ALL BRONZE - "IN-LINE"	B & G	PR SERIES
P-3	CONDENSATE	1	8'	FRAC	1750	120V/1ø	U.L., W/BASIN *	HARTELL	A2X-1965

* PROVIDE OVERFLOW SAFETY SWITCH AND CHECK VALVE

ELECTRIC WATER HEATER SCHEDULE

MARK	GALLONS	KW	VOLTAGE	REMARKS	MANUF	MODEL
WH-1	INSTANTANEOUS	6.5	208V/1ø	U.L., ASHRAE 90-80	EEMAX	SP65
WH-2	50	4.5	208V/1ø	U.L., ASHRAE 90-80 W/DRAIN PAN	A.O. SMITH	ECRT-52
WH-3	INSTANTANEOUS	14	208V/1ø	U.L., ASHRAE 90-80	EEMAX	EX190T2

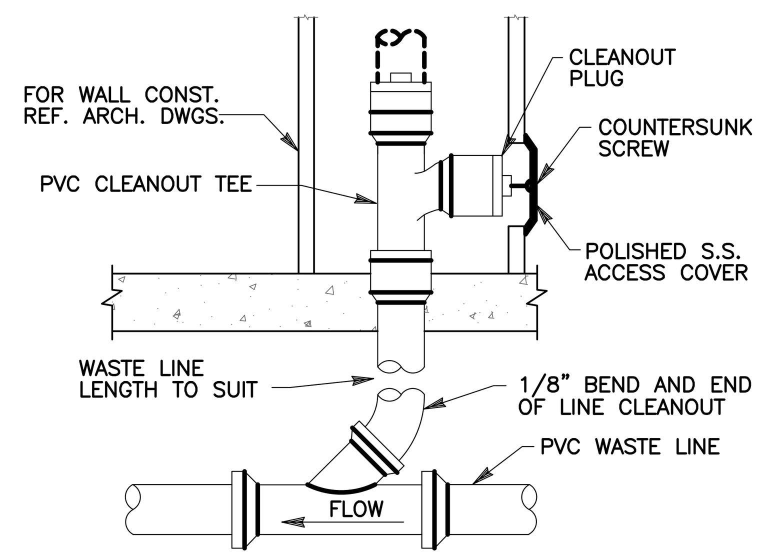


1. Thermon FLX BC or OJ...self-regulating heating cable, 5 watt/per foot, 120 volt.
2. B4X-1...Adjustable ambient sensing thermostat.
3. PCS-COM..."tee"/in-line splice kit permits 2 or 3 cables to be spliced togeth.er
4. ET-6(for OJ cable) or ET-8(for BC cables)...cable end termination.
5. Polyester fiber attachment tape, use on 12" centers or as required by code or specification.
6. Electrc Heat Tracing lables, 10' intervals or as required by code or specification.
7. Fiberglass thermal insulation and vapor barrier.
8. 120 Volt 20 Amp Electric Circuit

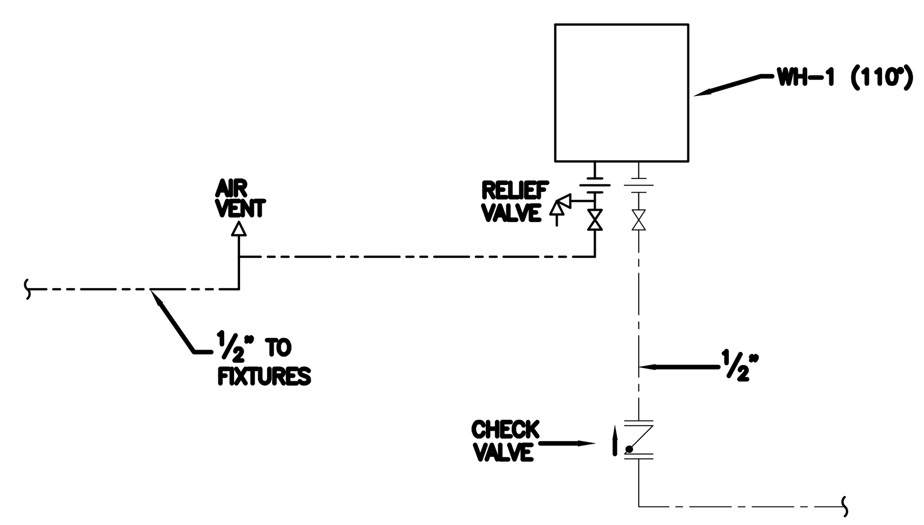
As a minimum, each FLX heat tracing circuit will require a PCA-COM circuit fabrication kit and PF-1 cable attachment tape.

4 / P2.1 FREEZE PROTECTION SCHEMATIC
N.T.S.

NOTE: PROVIDE HEAT TAPE ON PIPING IN AREAS THAT ARE SUSCEPTIBLE OF FREEZING.



2 / P2.1 WALL CLEANOUT
NO SCALE



3 / P2.1 INSTANTANEOUS ELECTRIC WATER HEATER SCHEMATIC
NO SCALE (WH-1 & 3)
NOTE: PROVIDE LEAD FREE PIPING, FITTINGS, VALVES ETC.

PLUMBING LEGEND AND ABBREVIATIONS

	DOMESTIC COLD WATER		CAP ON END OF PIPE
—140°—	140° DOMESTIC HOT WATER	FS	FLOW SWITCH
	VENT PIPE		CHECK VALVE
	SOIL PIPE	FD	FLOOR DRAIN
VTR	VENT THRU ROOF		PIPE UP
V	VENT		PIPE DOWN
1	INDICATES FIXTURE NUMBER	CO	CLEANOUT
BFP	BACKFLOW PREVENTER		GATE/BALL VALVE
	PRESSURE REDUCING VALVE	—D—	CONDENSATE DRAIN
	VALVE IN RISER	FDC	FIRE DEPARTMENT CONNECTION
—G—	NATURAL GAS PIPE	CX	CONNECT TO EXISTING
	GAS STOP	—140°R—	140° DOMESTIC HOT WATER RECIRC.
—SP—	SPRINKLER PIPE	P.P.	PART PLAN
GWH	GAS WATER HEATER		

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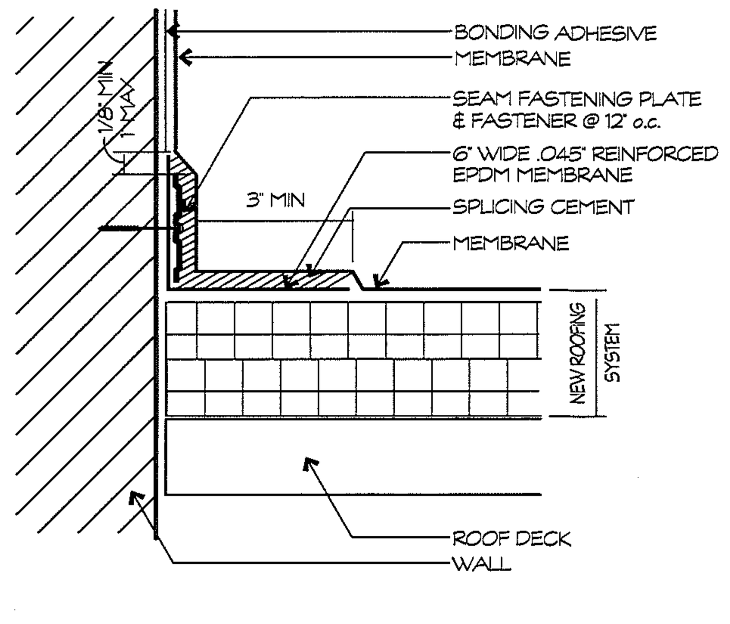
RHL No. 13208 FIRST FLOOR RENOVATIONS

PLUMBING/PIPING SCHEDULES/DETAILS

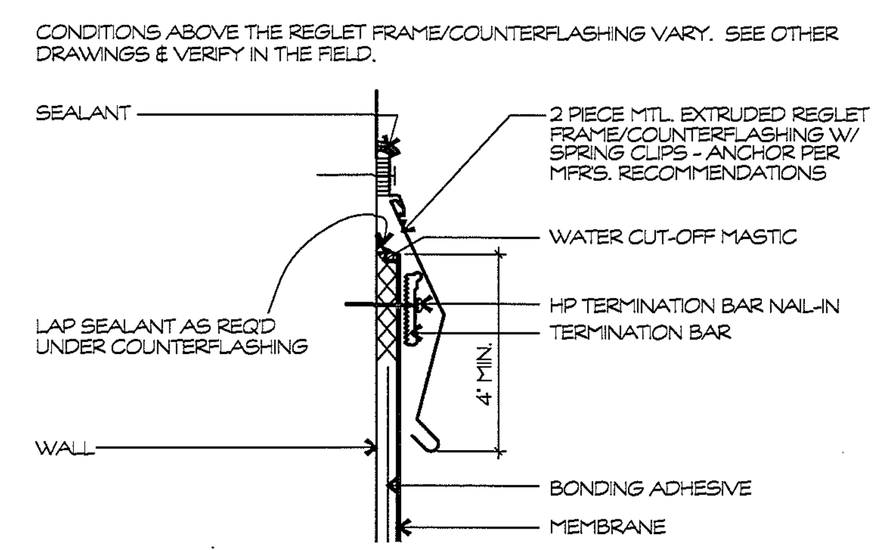
P2.1

DATE : 08.15.14



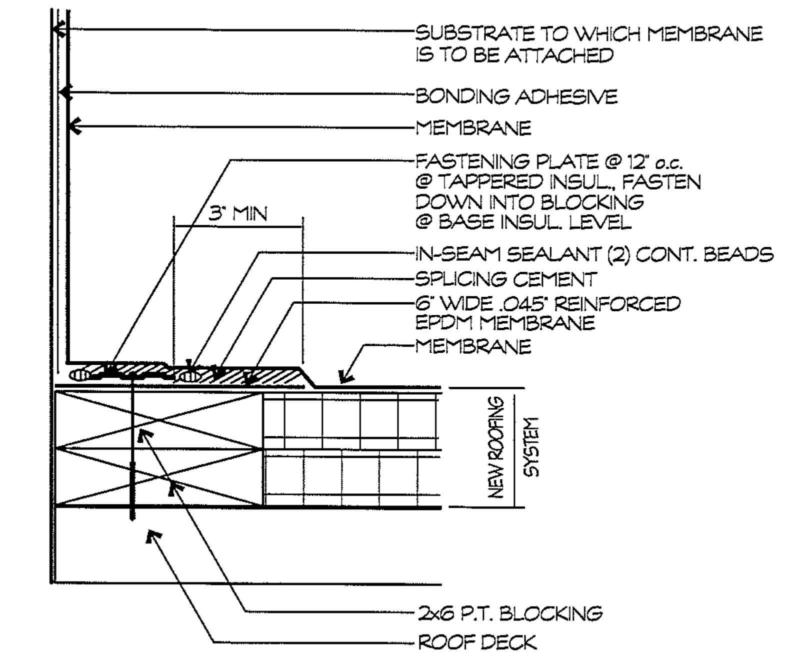
VERT. MEMBRANE SECUREMENT — 10 / A1.5

3" = 1'-0"



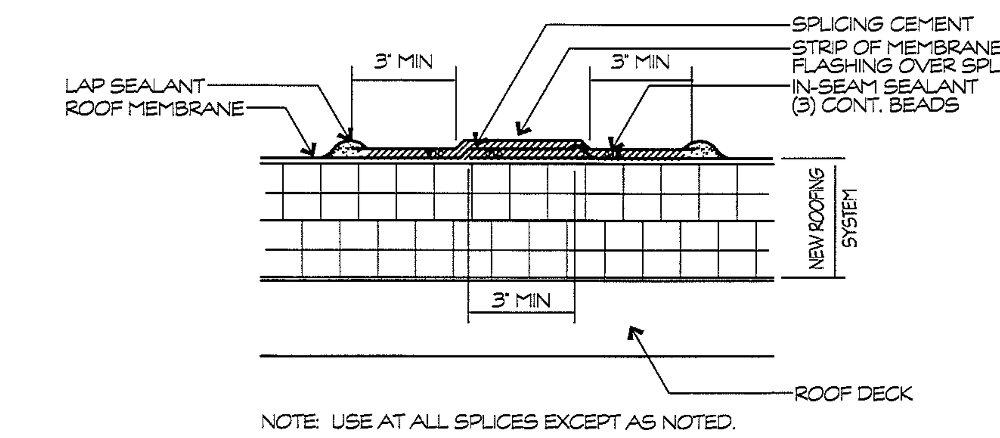
VERT. TERM. @ REGLET/COUNTERFLASHING — 6 / A1.5

3" = 1'-0"



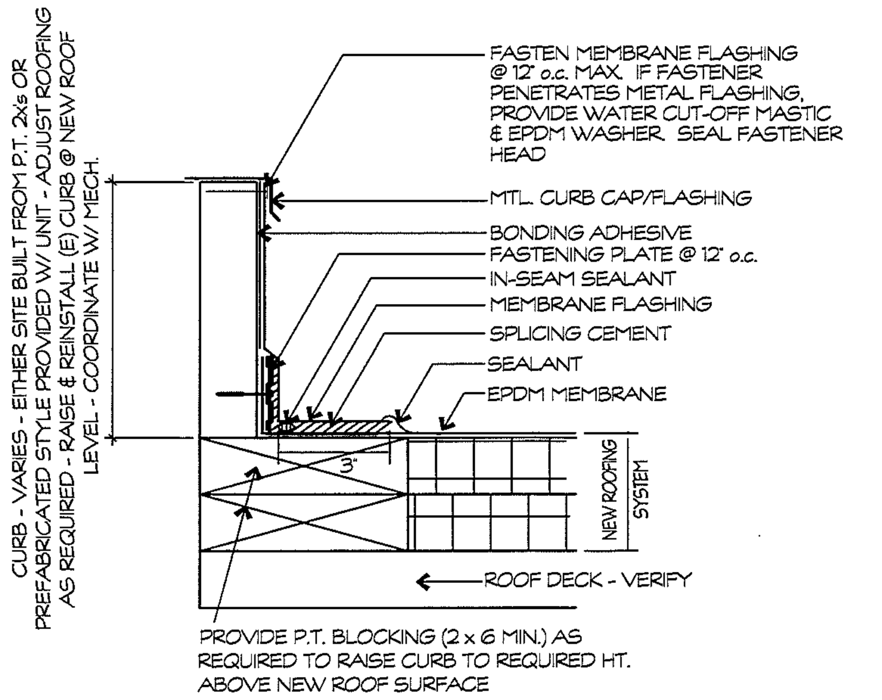
HORIZ. MEMBRANE SECUREMENT — 3 / A1.5

3" = 1'-0"



MEMBRANE SPLICE (TYP.) — 2 / A1.5

3" = 1'-0"

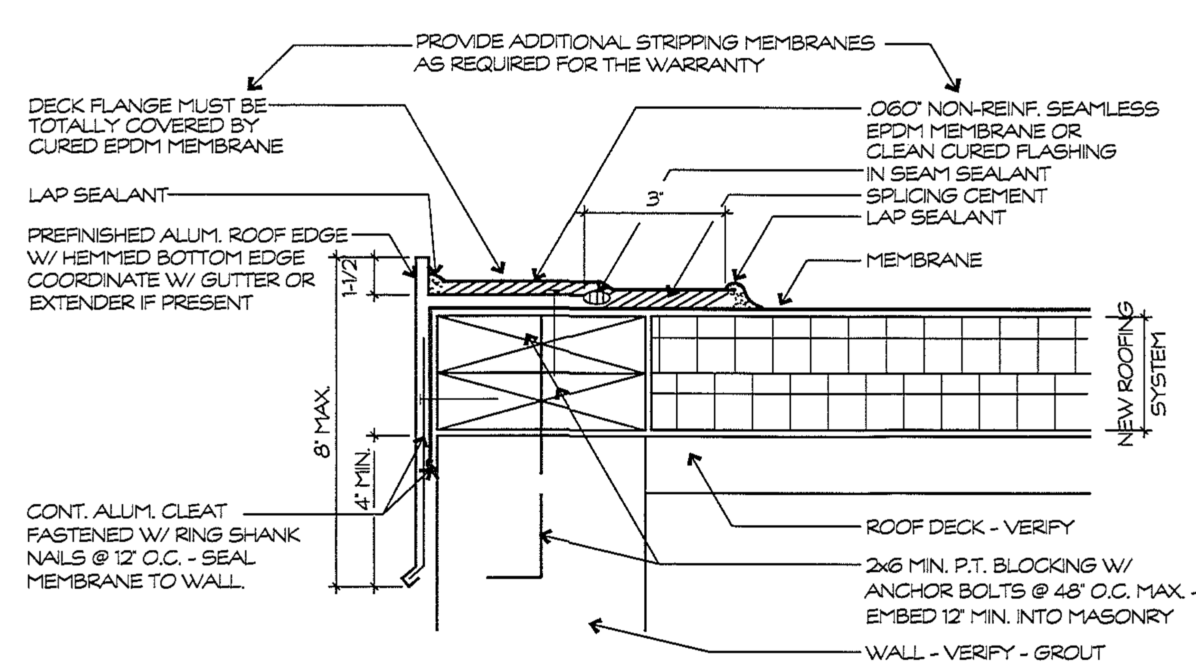


NOTES:

1. MAKE ALL LINE, PIPE, DUCT, & CONDUIT PENETRATIONS INSIDE THE CURB (INCLUDING CONDUITS FOR CONVENIENCE OUTLETS).
2. THIS DETAIL SHOWS THE CURB RESTING ON THE BLOCKING. SEE STRUCT. FOR ALL OTHER SUPPORT REQUIREMENTS. COORDINATE.
3. COORDINATE W/ MECHANICAL.

TYP. ROOF CURB. DETAIL — 9 / A1.5

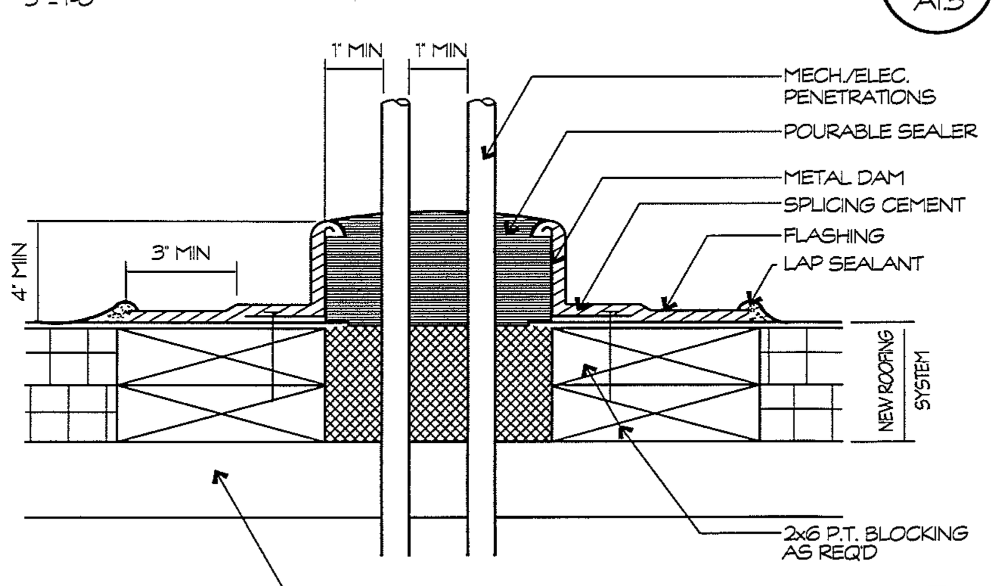
3" = 1'-0"



NOTE:
THIS GENERAL DETAIL SHOWS THE ROOFING - SEE OTHER ROOF DETAILS & WALL SECTIONS FOR CONFIGURATION OF DRIP EDGE & SURROUNDING CONDITIONS (ESP BLOCKING, & METAL EXTENDER/COUNTER FLASHING IF PRESENT).

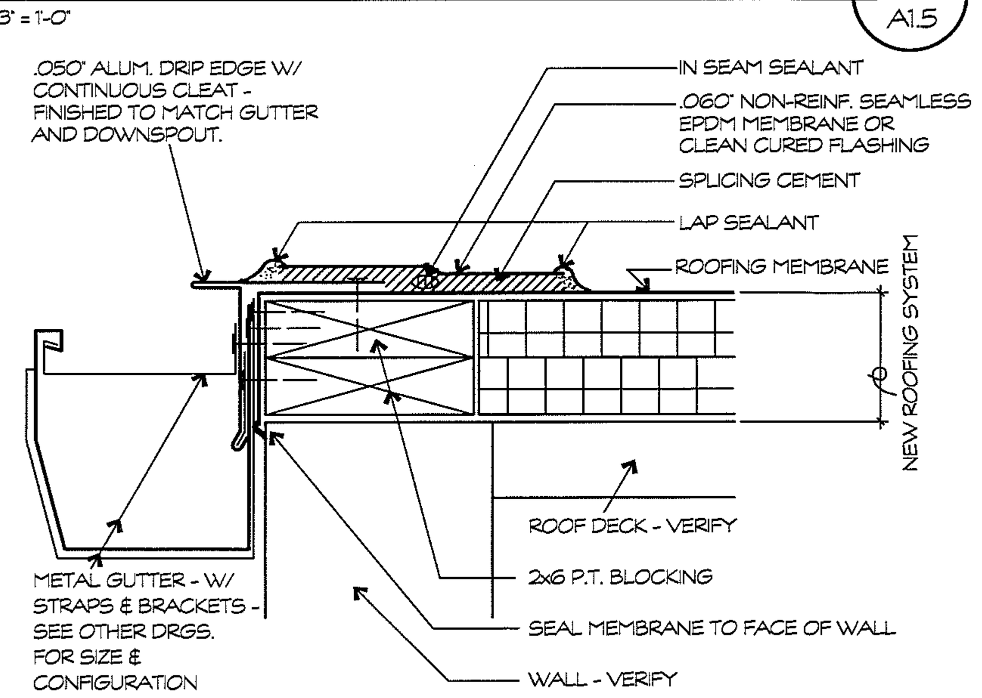
ROOF EDGE DETAIL — 5 / A1.5

3" = 1'-0"



SEALER POCKET — 8 / A1.5

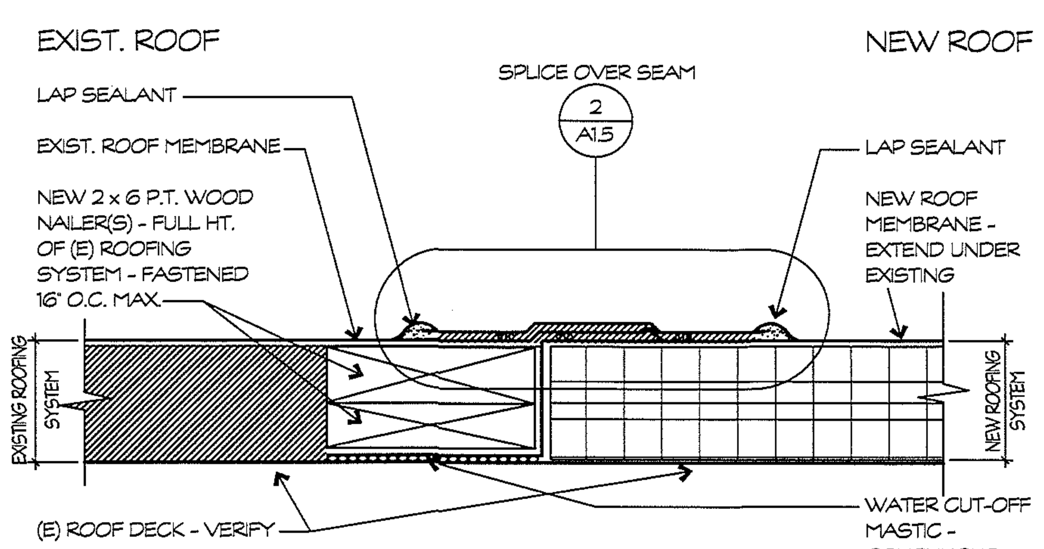
3" = 1'-0"



NOTE: REMOVE EXISTING ROOFING & METAL ROOF EDGE WHERE PRESENT.

METAL DRIP EDGE W/ GUTTER — 7 / A1.5

3" = 1'-0"

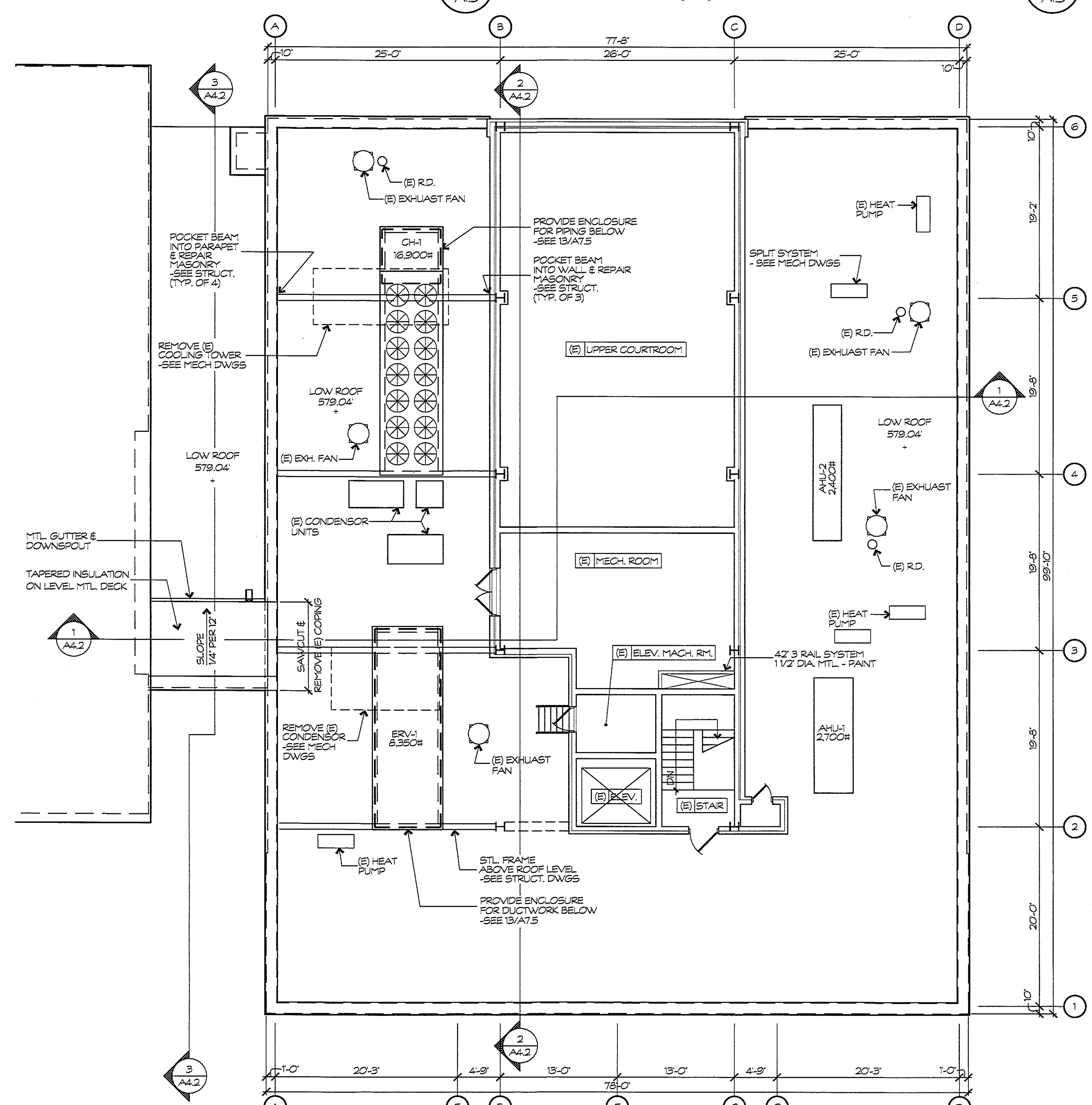


NOTES:

1. THIS DETAIL SHOWS ONE STYLE OF TIE-IN. ADJUST AS REQUIRED BY THE ROOFING MANUFACTURER FOR THE WARRANTY SPECIFIED. SUBMIT ALTERNATIVE DETAIL FOR THE ARCHITECT'S REVIEW.
2. LIFT & READHERE (E) MEMBRANE AS REQUIRED.
3. NEW INSULATION (BASE & TAPERED IF REQUIRED) SHALL BE THE SAME THICKNESS & TAPER AS THE EXISTING. VERIFY THE NEW CONFIGURATION SLOPES TOWARD ROOF DRAINS, SCUPPERS, OR GUTTERS.
4. CONFIGURE & SECURE THE NEW MEMBRANE AS REQUIRED BY THE ROOFING MANUFACTURER.
5. STRIP OVER THE TIE-IN SPLICE AS SHOWN UNLESS PROHIBITED BY THE ROOFING MANUFACTURER. NOTIFY THE ARCHITECT.

EPDM TO EPDM TIE-IN — 4 / A1.5

3" = 1'-0"
3" = 1'-0" SCALE FEET



ROOF PLAN - ANNEX — 1 / A1.5

1/8" = 1'-0"
1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

REVISIONS

1 10.19.10 AS-BUILTS

DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK. IS PARTLY DIAGRAMMATIC. IT SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR SERVE AS ERECTION SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS.

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED BY ME, AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE No. 8378 EXPIRATION DATE 9/2/04

BFM BUSHEY FEIGHT MORIN ARCHITECTS INC.
473 North Potomac Street, Hagerstown, Md 21740
301-733-5600 Fax 301-733-5612
E-mail: BFM@BFMArchitects.com

BFM# 02074 WCDPW- CIRCUIT COURTHOUSE ANNEX RENOVATION

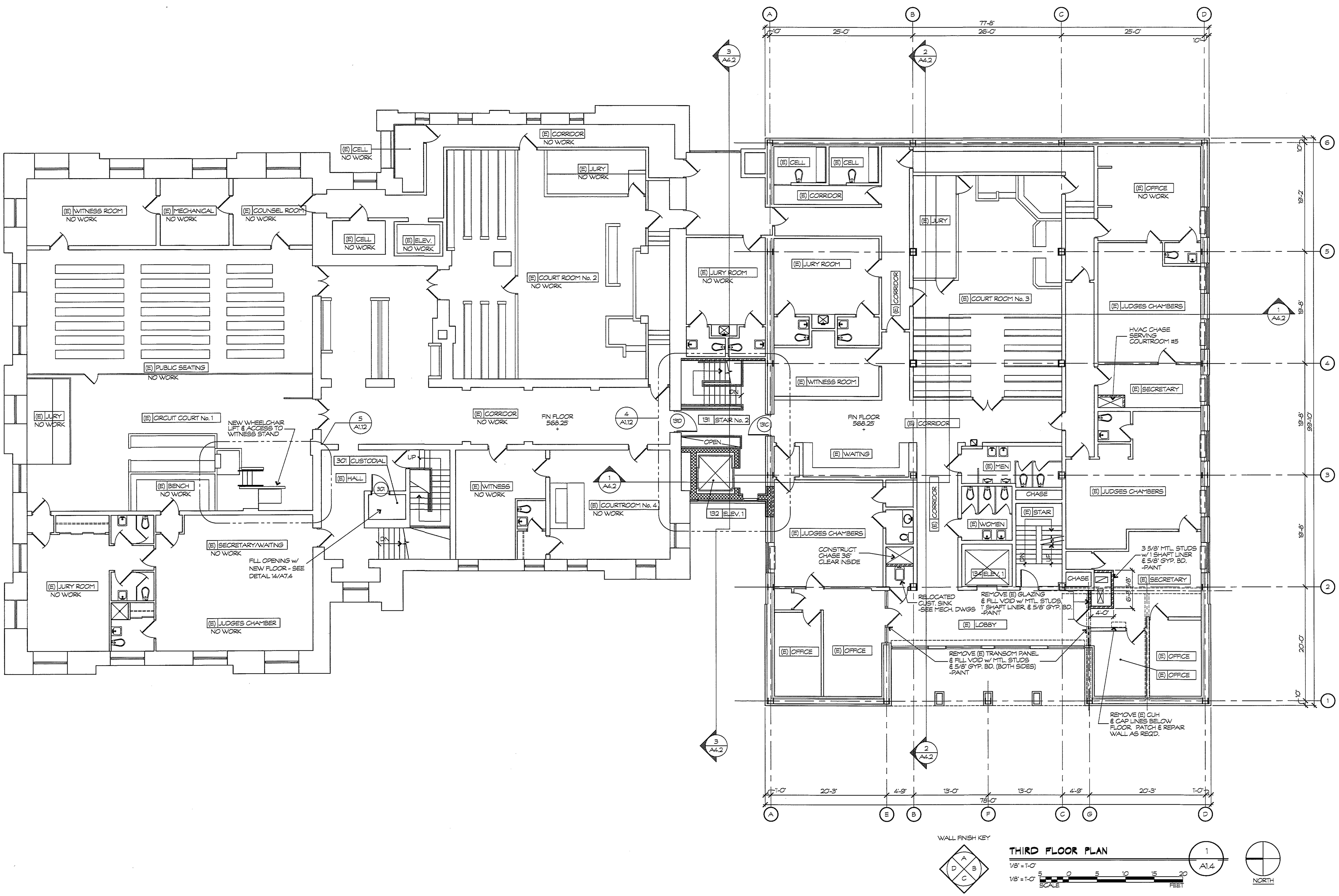
ROOF PLAN

A1.5

OF SHEETS

DATE : 05/25/04

XREFS: TITLEBL



REVISIONS

1 10.19.10 AS-BUILTS

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EXPIRATION DATE 9/2/04

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BFM# 02074

WCDPW- CIRCUIT COURTHOUSE ANNEX RENOVATION

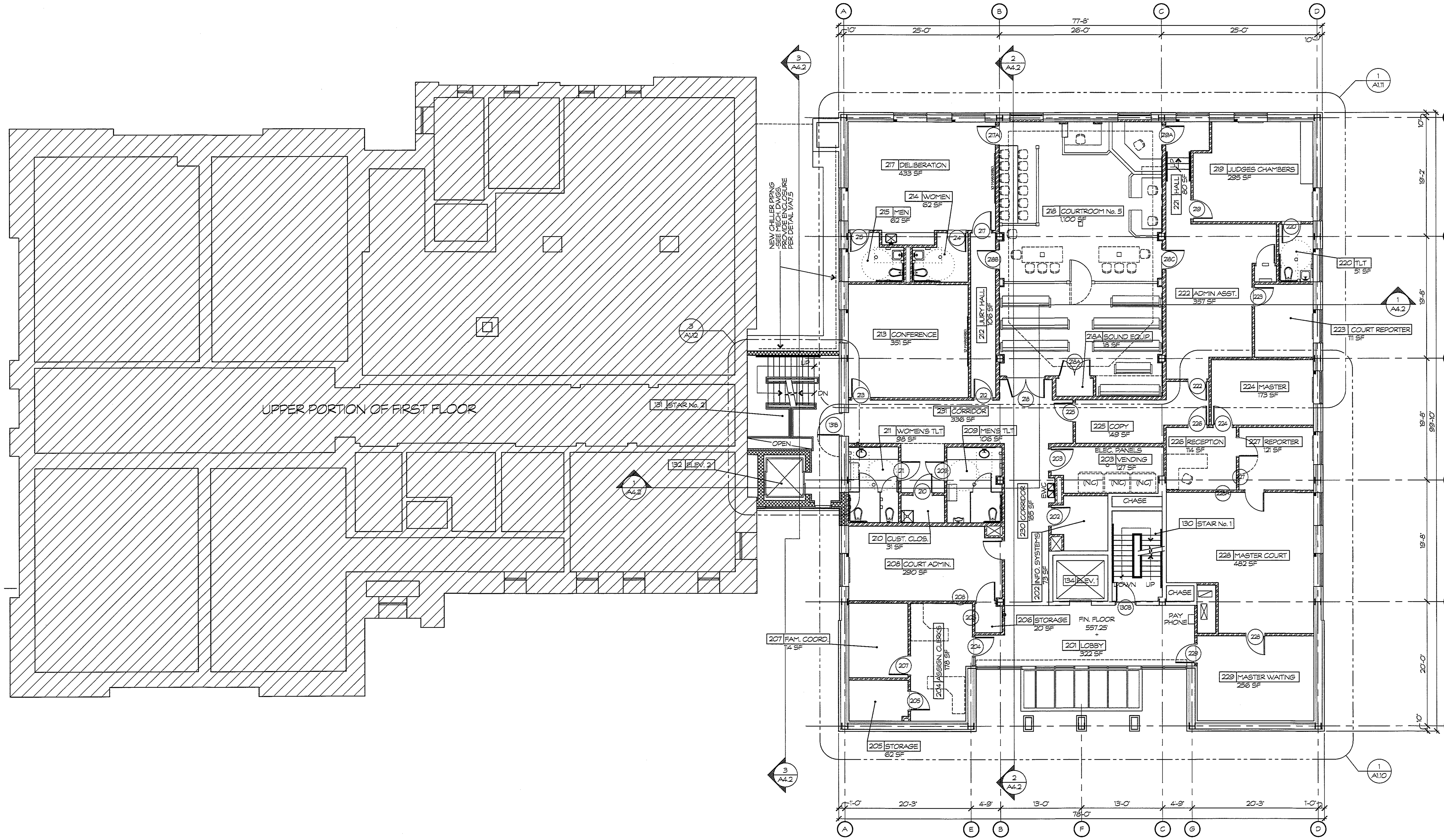
THIRD FLOOR PLAN

A1.4

OF SHEETS

DATE : 05/25/04

XREFS: TITLEBL



WALL FINISH KEY

SECOND FLOOR PLAN 1/A1.3

1/8" = 1'-0"

NORTH

REVISIONS

1. 2/3/05 OWNER REQUESTED DEPT. REVISIONS
2. 10/13/10 AS-BUILTS

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BFM# 02074

WCDPW- CIRCUIT COURTHOUSE ANNEX RENOVATION

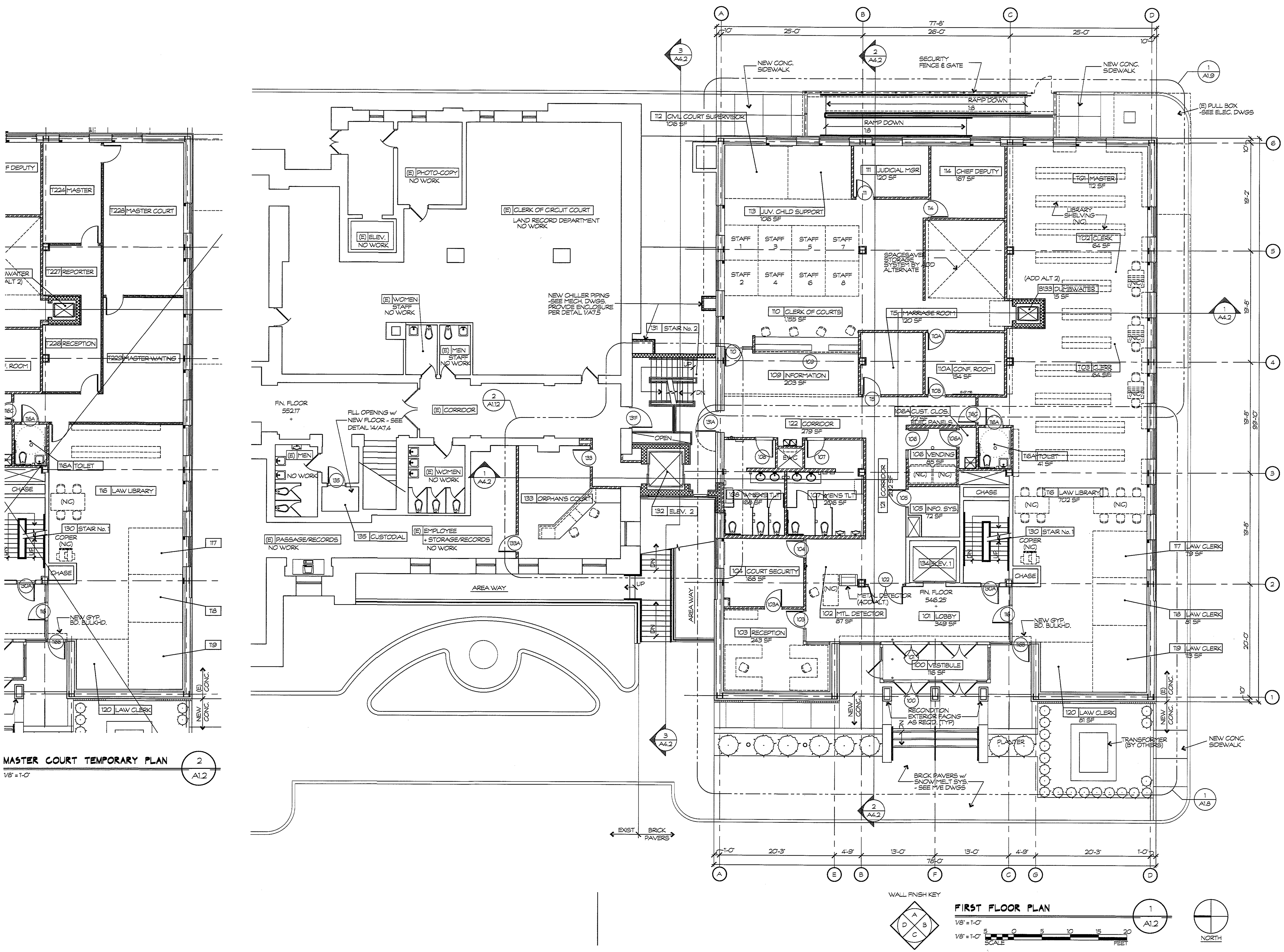
SECOND FLOOR PLAN

A1.3

OF SHEETS

DATE: 05/25/04

XREFS: TITLEBL



MASTER COURT TEMPORARY PLAN 2/A1.2

1/8" = 1'-0"

FIRST FLOOR PLAN 1/A1.2

1/8" = 1'-0"

SCALE 0 5 10 15 20 FEET

REVISIONS

1. 2/3/05 OWNER REQUESTED DEPT. REVISIONS & SECURITY RAMP REVISIONS
2. 10.19.10 AS-BUILTS

DRAWING INTENT IS TO INDICATE GENERAL ARRANGEMENT, DESIGN AND INTENT OF WORK, IS PARTLY DIAGRAMMATIC, IT SHALL NOT BE SCALED FOR ROUGH-IN MEASUREMENTS OR SERVE AS ERECTION SHOP DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF DIMENSIONS

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E-mail: BFM@BFMArchitects.com

BFM# 02074 WCDPW- CIRCUIT COURTHOUSE ANNEX RENOVATION

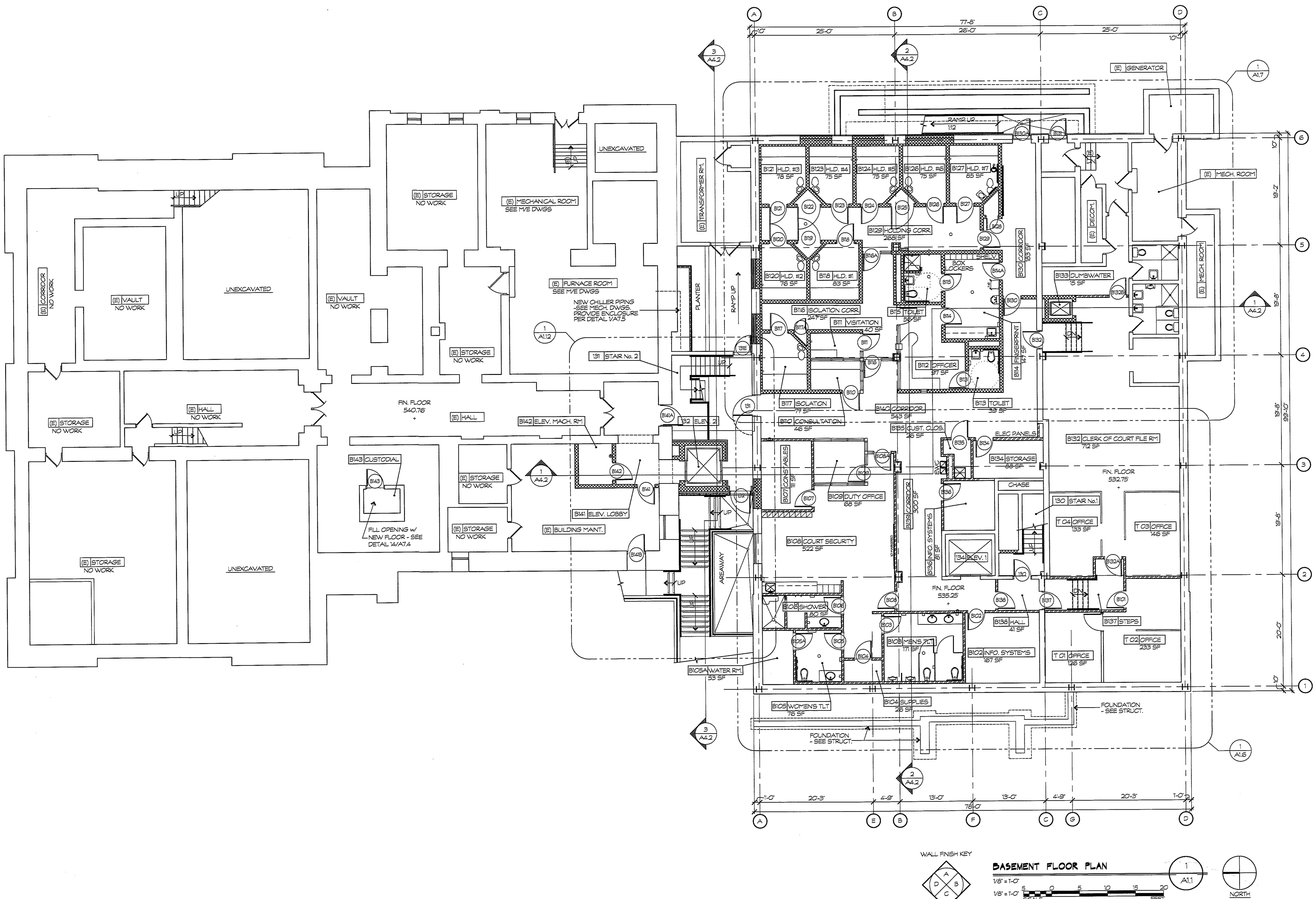
FIRST FLOOR PLAN

A1.2

OF SHEETS

DATE: 05/25/04

XREFS: TITLEBL



BASEMENT FLOOR PLAN 1/A1.1

1/8" = 1'-0"

SCALE 5 0 5 10 15 20 FEET

REVISIONS

1 12/22/04 OWNER REQUESTED DEPT. REVISIONS

2 10.19.10 AS-BUILTS

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LICENSE No. 8278
EXPIRATION DATE 9/2/04

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BFM# 02074
WCDPW- CIRCUIT COURTHOUSE ANNEX RENOVATION

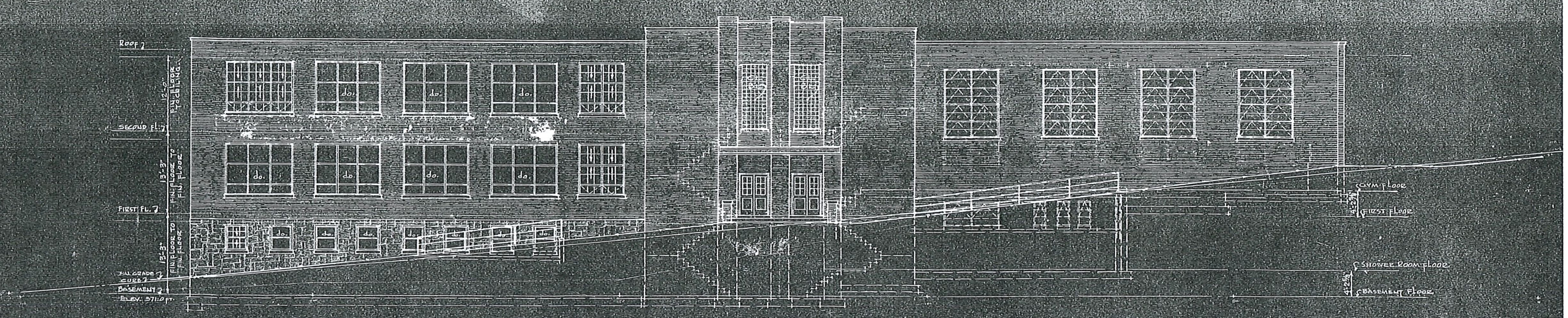
BASEMENT FLOOR PLAN

A1.1

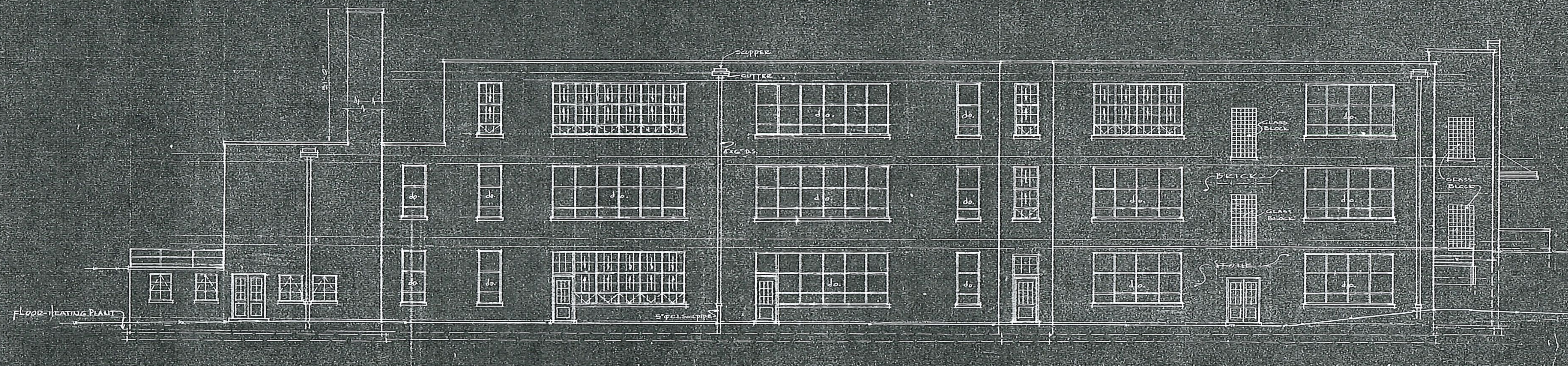
OF SHEETS

DATE: 05/25/04

XREFS: TITLEBL

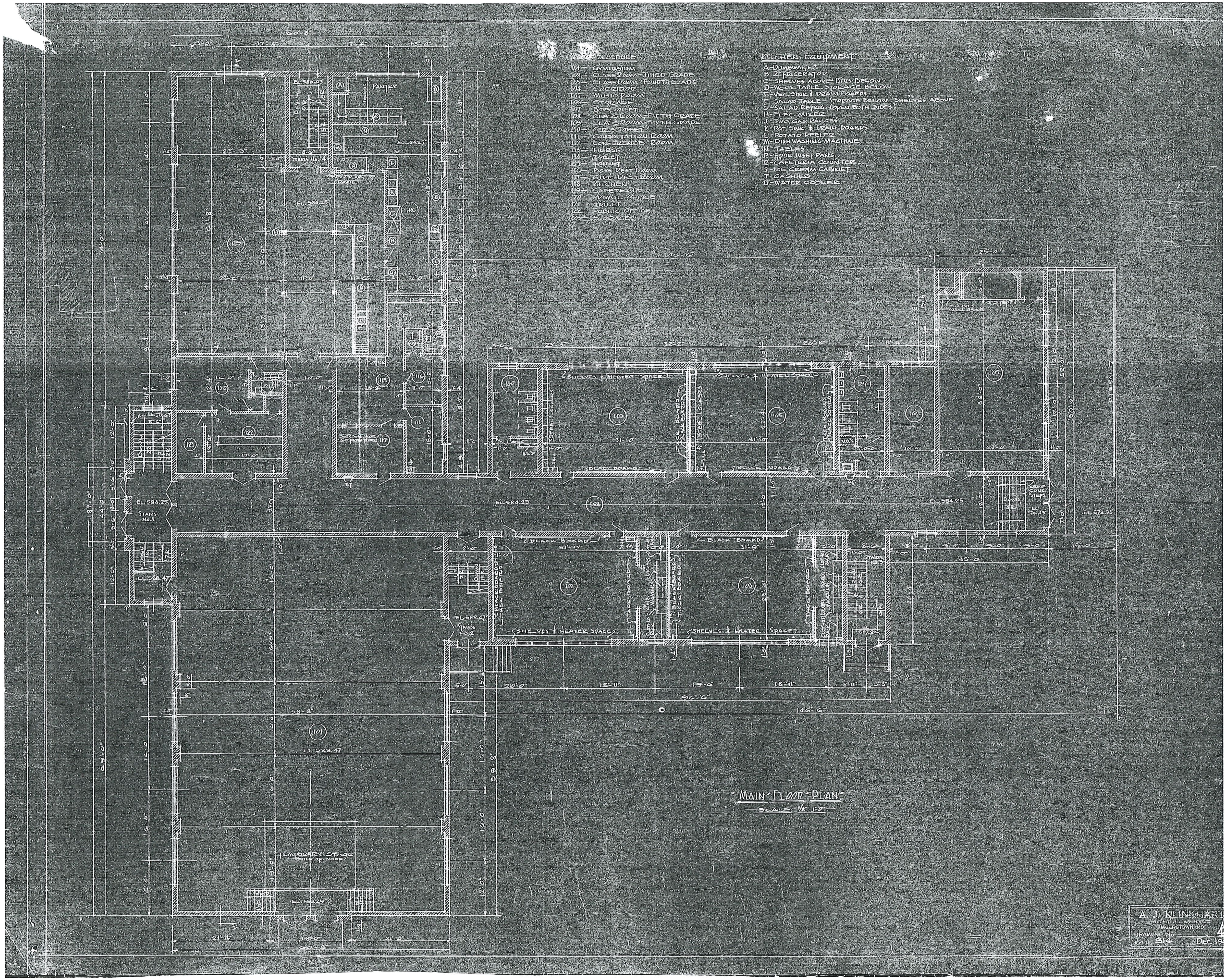


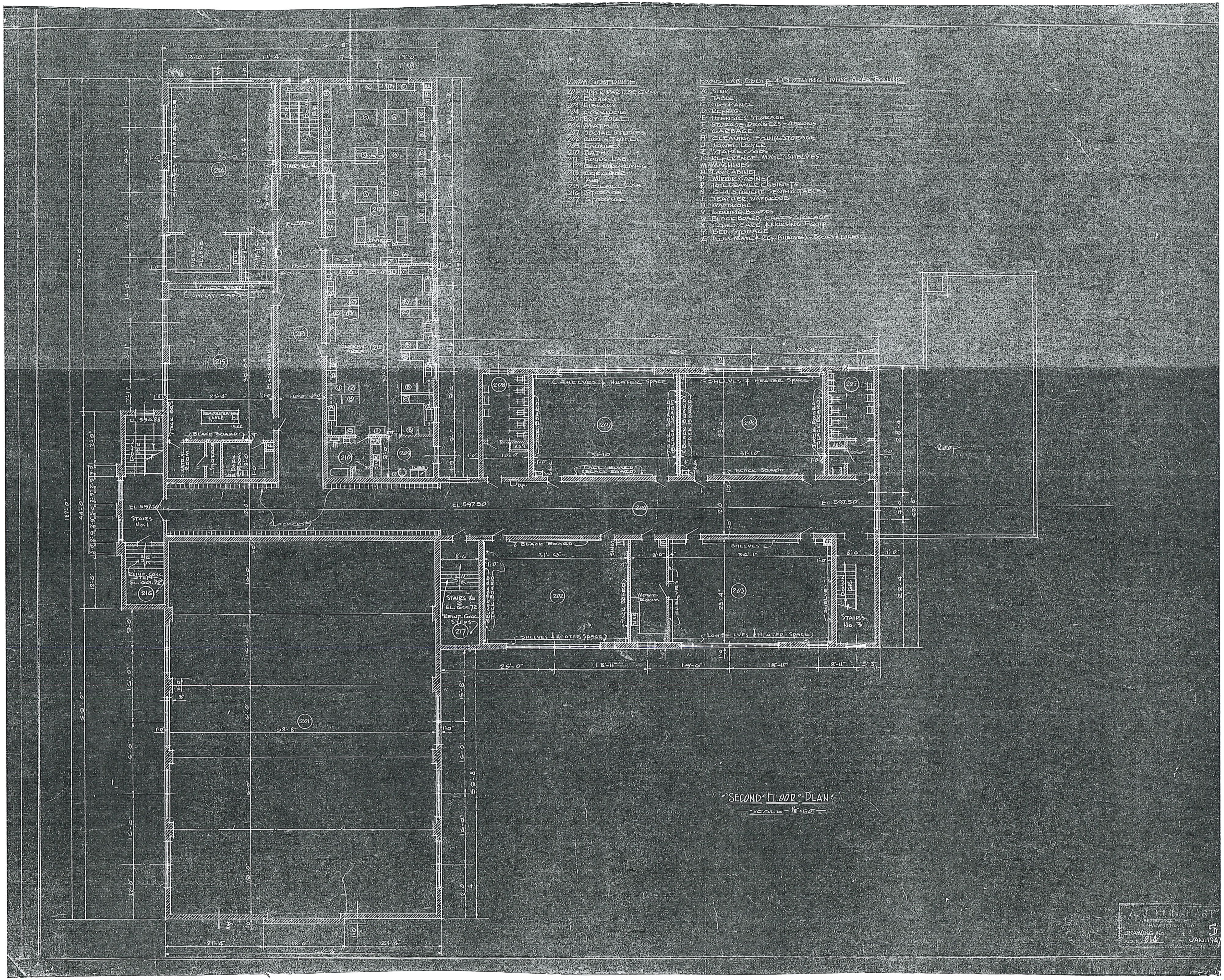
NORTH · ELEVATION
SCALE 1/8" = 1'-0"

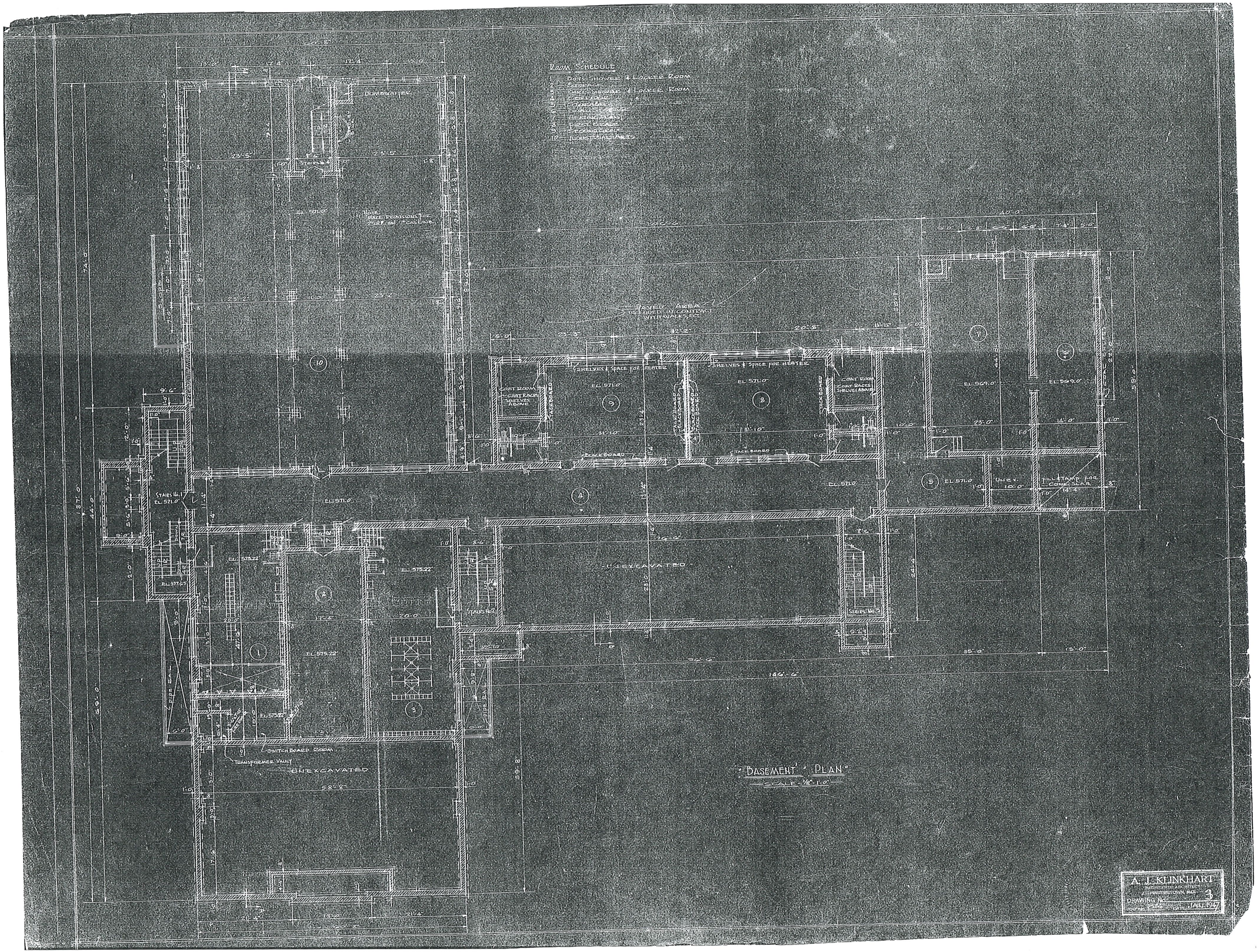


EAST · ELEVATION
SCALE 1/8" = 1'-0"

A. J. KLINKHART
REGISTERED ARCHITECT
HAGERSTOWN, MD.
DRAWING No. 7
JOB No. 814 DATE DEC. 194


SCHEDULE
101— GYMNASIUM
102— CLASS ROOM - THIRD GRADE
103— CLASS ROOM - FOURTH GRADE
104— CORRIDOR
105— MUSIC ROOM
106— STORAGE
107— BOYS TOILET
108— CLASS ROOM - FIFTH GRADE
109— CLASS ROOM - SIXTH GRADE
110— GIRLS TOILET
111— CONSULTATION ROOM
112— CONFERENCE ROOM
113— NURSE
114— TOILET
115— TOILET
116— BOYS REST ROOM
117— GIRLS REST ROOM
118— KITCHEN
119— CAFETERIA
120— PRIVATE OFFICE
121— TOILET
122— PUBLIC OFFICE
123— STORAGE
KITCHEN EQUIPMENT
A-DUMBWAITER
B-REFRIGERATOR
C-SHELVES ABOVE - BINS BELOW
D-WORK TABLE - STORAGE BELOW
E-VEG. SINK & DRAIN BOARDS
F-SALAD TABLE - STORAGE BELOW - SHELVES ABOVE
G-SALAD REFRIG. (OPEN BOTH SIDES)
H-ELEC. MIXER
J-TWO GAS RANGES
K-POT SINK & DRAIN BOARDS
L-POTATO PEELER
M-DISH WASHING MACHINE
N-TABLES
P-FOUR INSET PANS
R-CAFETERIA COUNTER
S-ICE CREAM CABINET
T-CASHIER
U-WATER COOLER
MAIN FLOOR PLAN
SCALE 1/8" = 1'-0"
TEMPORARY STAGE
A. J. KLINKHART
REGISTERED ARCHITECT
HAGERSTOWN, MD.
DRAWING No. 4
JOB No. 814
Dec. 19


ROOM SCHEDULE
201 UPPER PART OF GYM.
202 ENGLISH
203 LIBRARY
204 CORRIDOR
205 BOYS TOILET
206 MATH.
207 SOCIAL STUDIES
208 GIRLS TOILET
209 LAUNDRY
210 BATH
211 FOODS LAB.
212 CLOTHING-LIVING
213 CORRIDOR
214 ART
215 SCIENCE LAB.
216 STORAGE
217 STORAGE
FOODS LAB. EQUIP & CLOTHING LIVING AREA EQUIP.
A SINK
B TABLE
C GAS RANGE
D REFRIG.
E UTENSILS STORAGE
F STORAGE DRAWERS - APRONS
G GARBAGE
H CLEANING EQUIP. STORAGE
J TOWEL DRYER
K STAPLE GOODS
L REFERENCE MAT'L SHELVES
M MACHINES
N LAV. CABINET
P MIRROR CABINET
R TOTE DRAWER CABINETS
S 6 - 4 STUDENT SEWING TABLES
T TEACHER WARDROBE
U WARDROBE
V IRONING BOARDS
W BLACK BOARD, CHARTS, STORAGE
X CHILD CARE & NURSING EQUIP.
Y BED STORAGE
Z ILLUS. MAT'L & REF. (SHELVES) - BOOKS & FILES
SHELVES & HEATER SPACE
BLACK BOARD
TACK BOARD
EL. 597.50'
STAIRS No. 1
STAIRS No. 2
STAIRS No. 3
LOCKERS
WORK ROOM
ROOF
SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"
DRAWING No.
814
5
JAN. 1947


ROOM SCHEDULE
BOYS SHOWERS & LOCKER ROOM
GIRLS SHOWERS & LOCKER ROOM
PAVED AREA
SHELVES & SPACE FOR HEATER
COAT ROOM
UNEXCAVATED
SWITCHBOARD ROOM
TRANSFORMER VAULT
BASEMENT PLAN
SCALE 1/8" = 1'-0"
A. J. KLINKHART
REGISTERED ARCHITECT
HAGERSTOWN, MD.
DRAWING No. 3
JOB No. 814
DATE JAN 1947

WASHINGTON COUNTY GOVERNMENT

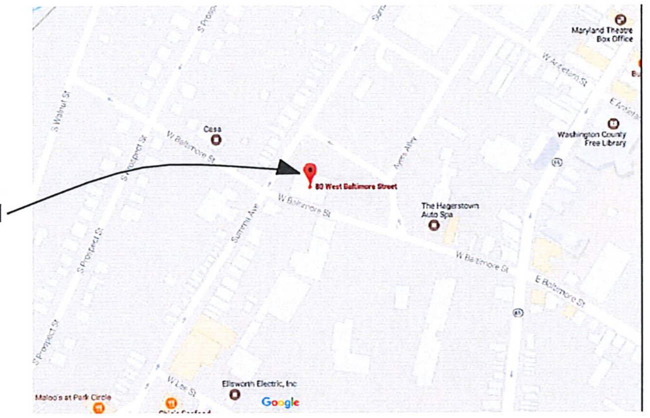
80 W. BALTIMORE STREET
HAGERSTOWN, MD

BUILDING CORE
MECHANICAL/ELECTRICAL UPGRADES

DESIGNER OF RECORD (DOR) STATEMENT

THE ORIGONAL CONCEPT DOCUMENTS FOR THIS PROJECT WERE PROVIDED BY THE OWNER FOR USE BY THE DOR. THE DOR HAS COMPLETED AND SEALED THE DOCUMENTS FOR BIDDING/PERMIT.

SITE LOCATION



VICINITY MAP

NOT TO SCALE

PROJECT DESCRIPTION AND SCOPE OF WORK (SOW) SUMMARY

THE FOLLOWING IS A SUMMARY OF THE NATURE AND INTENT OF THE WORK. IT INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

1. REMOVAL OF EXISTING HVAC SYSTEMS AS INDICATED ON THE PLANS.
2. REMOVAL/ REWORK OF EXISTING DUCTWORK AIR DISTRIBUTION SYSTEM AS INDICATED ON THE PLANS.
3. INSTALLATION OF NEW HVAC EQUIP,ENT AS INDICATED ON THE PLANS.
4. REWORK EXISTING ELECTRICAL POWER SYSTEMS TO ACCOMMODATE NEW EQUIPMENT.
5. MISC. DEMOLITION CUTTING PATCHING ETC. AS NECESSARY YO ACCOMMODATE THE NEW/ REPLACEMENT HVAC SYSTEMS.

DRAWING LIST

Leslie S. Grim, P.E.

Digitally signed by Leslie Grim, PE
DN: cn=Leslie Grim, PE, o=L.S. Grim Inc., ou, email=lsgrim@lsgrim.com, c=US
Date: 2017.06.27 14:15:24 -04'00'

Leslie S. Grim, P.E.

STATE OF MARYLAND
LESLIE SCOTT GRIM
REGISTERED 14401
PROFESSIONAL ENGINEER

16-071

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Consulting Engineers
MAIN OFFICE
19922 JEFFERSON BLVD., HAGERSTOWN, MD 21742-4367
PHONE: 301.797.1702 FAX: 301.797.4931
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DC METRO OFFICE
2275 RESEARCH BLVD., SUITE 500, ROCKVILLE, MD 20850

WASHINGTON COUNTY GOVERNMENT
BUILDING CORE MECH UPGRADE
80 W. BALTIMORE ST HVAC

MEP PROJECT COVER SHEET

Professional Certification

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland
License Number: 14401
Expiration Date: 4/21/2017

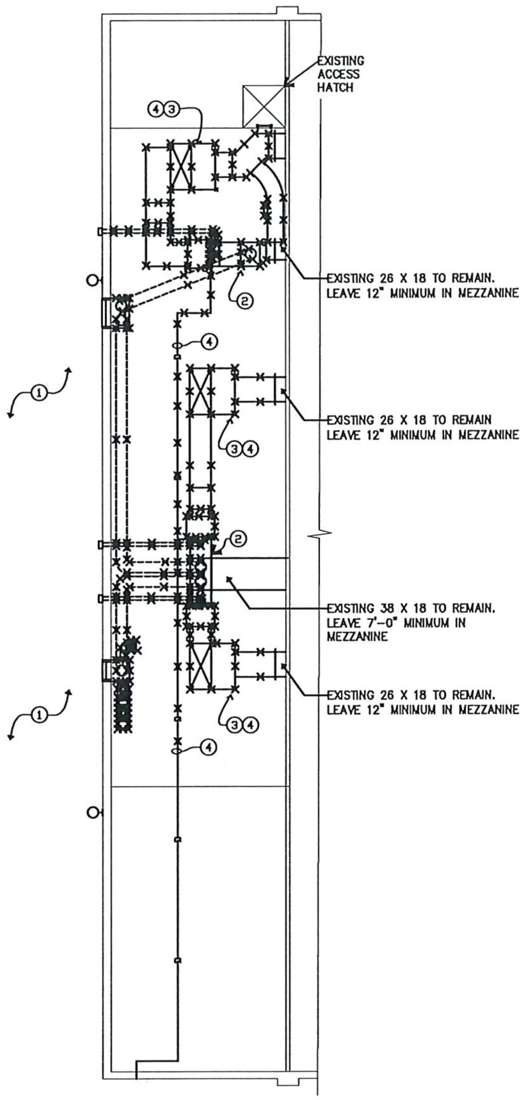
LESLIE SCOTT GRIM, P.E.

CO PROF. ENG. NO. PE0050461
DC PROF. ENG. NO. PE901201
DE PROF. ENG. NO. 11513
GA PROF. ENG. NO. PE032582
HI PROF. ENG. NO. PE13943
MD PROF. ENG. NO. 14401
NC PROF. ENG. NO. 033364
NJ PROF. ENG. NO. 39497
NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032636E
VA PROF. ENG. NO. 023240
WV PROF. ENG. NO. 19764

REV.	DATE	COMMENT
A	6-10-17	FOR PERMIT
B	6-26-17	PLAN REVIEW COMMENTS
C		
D		
E		
F		
G		
H		

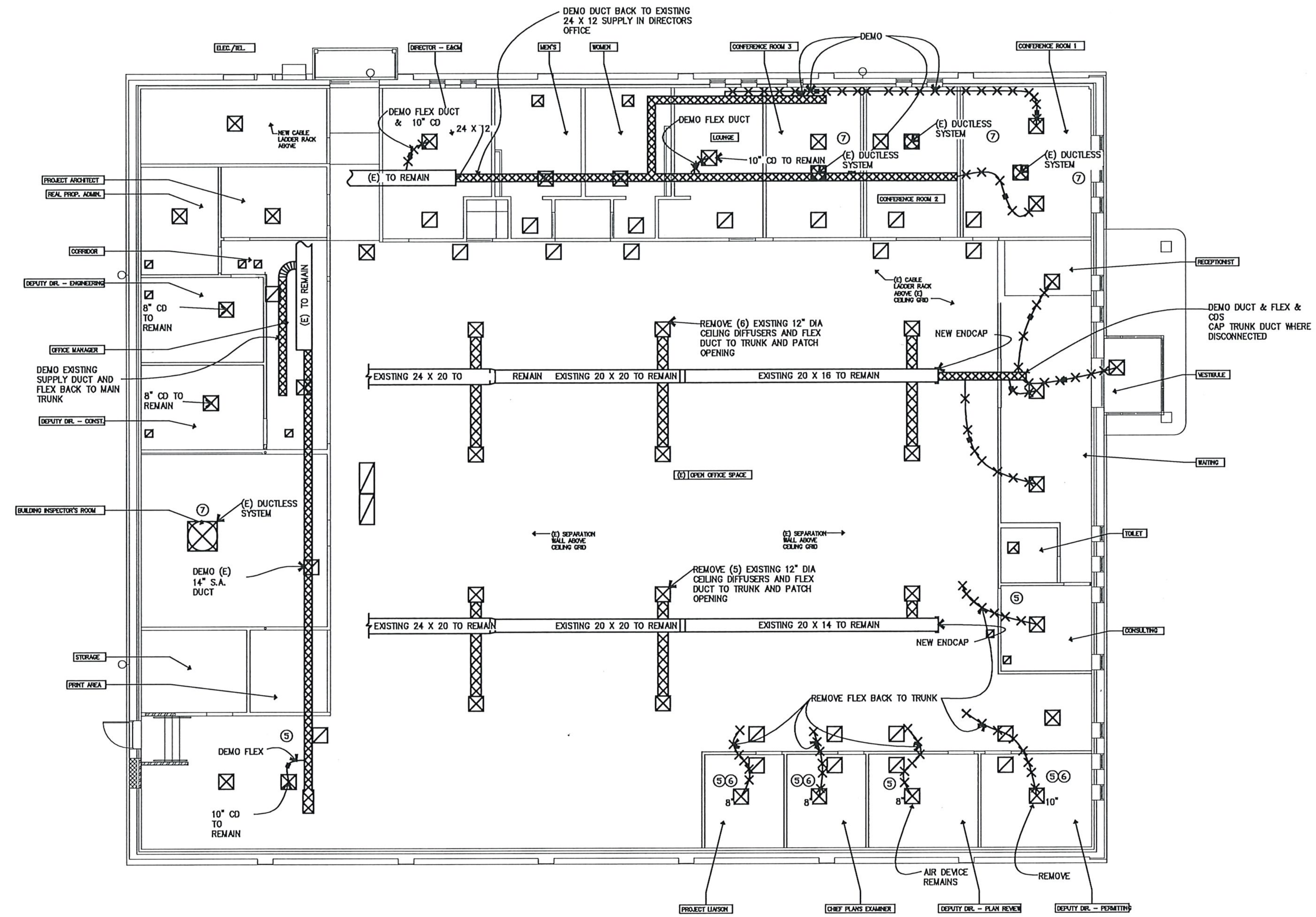
DRAWN BY: JOSHUA A. HAYNES

C-0.0
OF 1 SHEETS
DATE: JUNE 10, 2017



DEMO MECHANICAL/ELECTRICAL MEZZANINE PLAN

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



DEMO MECHANICAL/ELECTRICAL PLAN

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

KEYED MECHANICAL/ELECTRICAL NOTES:

1. REMOVE EXISTING CONDENSING UNITS, ETC IN ENTIRETY.
2. REMOVE EXISTING GAS FIRED DUCT FURNACES AND AIR HANDLERS.
3. REMOVE ALL MEZZANINE DUCTWORK.
4. REMOVE EXISTING GAS PIPING TO GAS FURNACES.
5. REMOVE EXISTING FLEX DUCT BACK TO TRUNK.
6. REMOVE EXISTING AIR DEVICE.
7. EXISTING DUCTLESS SPLIT SYSTEM TO REMAIN.

GENERAL MECHANICAL/ELECTRICAL NOTES:

1) DISCONNECT ALL ELECTRICAL FEEDERS SERVING REMOVED HVAC UNITS. REMOVE BACK TO PANEL ANY ITEM NOT REUSED FOR NEW EQUIPMENT.

2) BUILDING WILL BE OCCUPIED FOR THE ENTIRE PROJECT, PHASE WORK TO MINIMIZE DISTURBANCE TO OCCUPANTS.

3) CAP & SEAL WITH SHEET METAL AND OPENING IN TRUNK DUCTS DUE TO DEMOLITIONS.

Leslie S. Grim, P.E.

Digitally signed by Leslie Grim, PE
DN: cn=Leslie Grim, PE, o=L.S. Grim Inc, ou, email=lsgrim@lsgrim.com, c=US
Date: 2017.06.27 14:16:41 -04'00'

16-071

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Consulting Engineers
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PHONE: 301.797.1702 FAX: 301.797.4951
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DC METRO OFFICE
2275 RESEARCH BLVD., SUITE 500, ROCKVILLE, MD 20850

WASHINGTON COUNTY GOVERNMENT
BUILDING CORE MECH UPGRADE
80 W. BALTIMORE ST HVAC

MECHANICAL/ELECTRICAL DEMO PLAN

Professional Certification

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 14401

Expiration Date: 4/21/2017

LESLIE SCOTT GRIM, P.E.

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GA PROF. ENG. NO. PE032582
HI PROF. ENG. NO. PE13943
MD PROF. ENG. NO. 14401
NC PROF. ENG. NO. 033364
NJ PROF. ENG. NO. 39497
NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032636E
VA PROF. ENG. NO. 023240
~~WV PROF. ENG. NO. 18764~~

REV.	DATE	COMMENT
1	6-10-17	FOR PERMIT
2	6-28-17	PLAN REVIEW COMMENTS

DRAWN BY: NAME

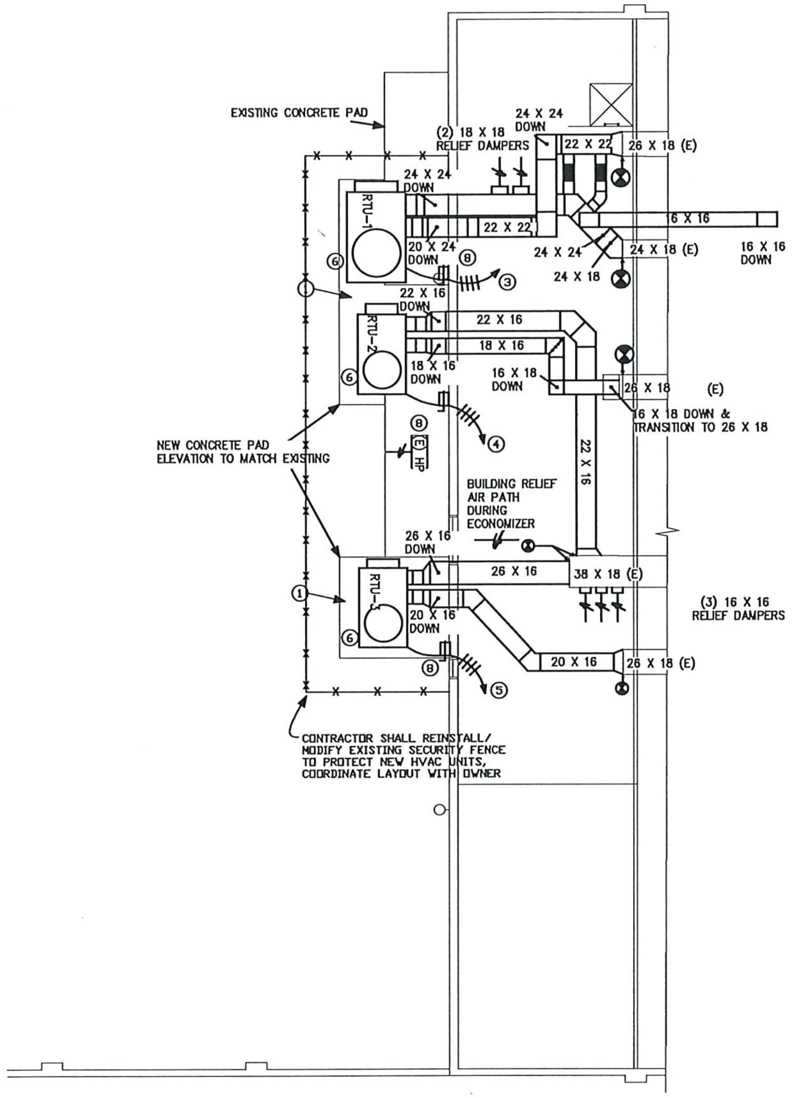
Leslie S. Grim, P.E.

STATE OF MARYLAND LESLIE SCOTT GRIM REGISTERED 14401 PROFESSIONAL ENGINEER

ME-1

OF 3 SHEETS

DATE: JUNE 10, 2017

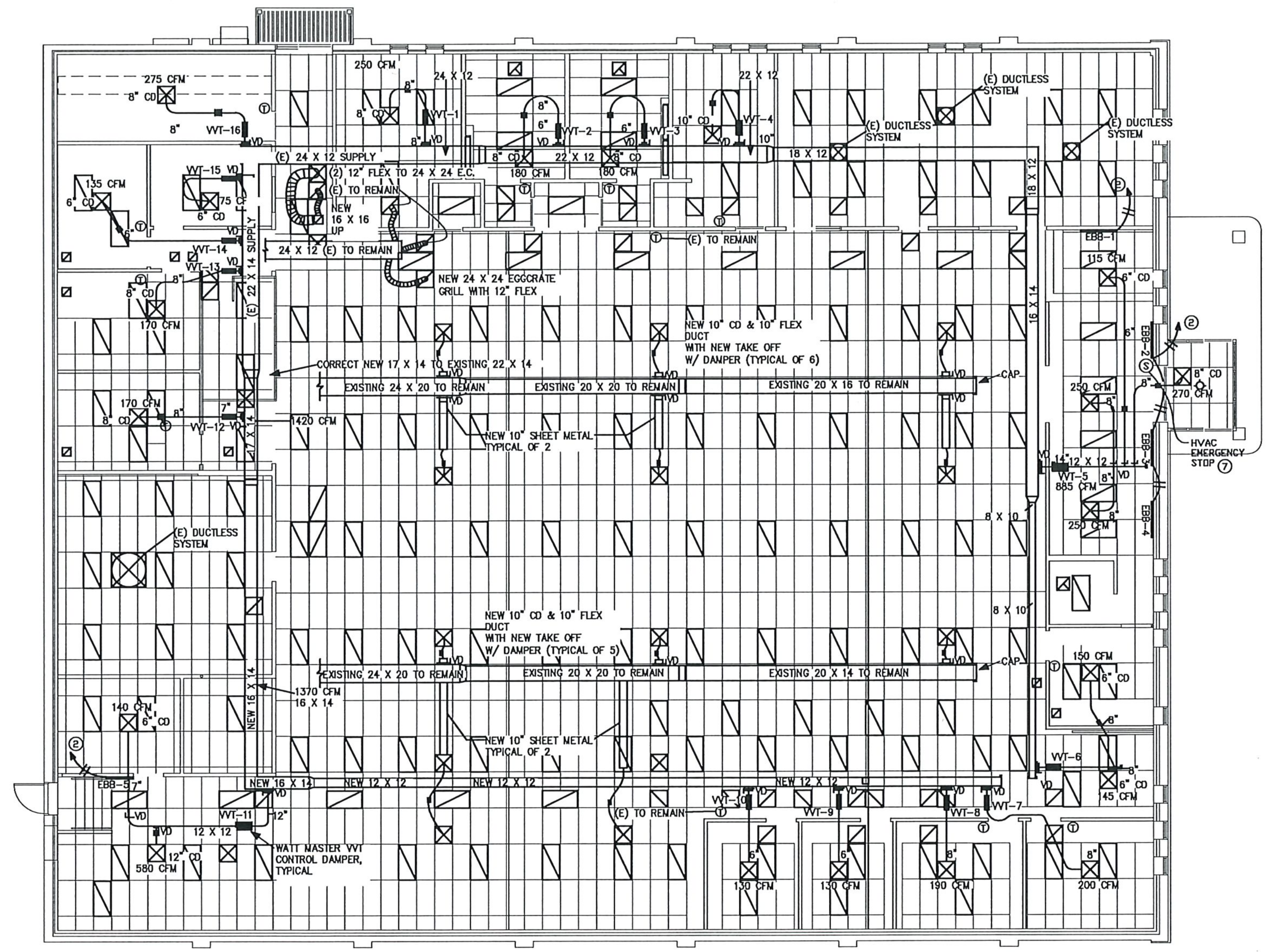


MECHANICAL/ ELECTRICAL NEW WORK MEZZANINE PLAN

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

GENERAL NOTES:

1) CONTRACTOR SHALL INSTALL SMOKE DETECTORS AND INTERLOCKS ON THE RETURN OF UNITS RTU-1,2,3. INTERLOCK WITH BUILDING FIRE ALARM SYSTEM, PROVIDE RESET.



MECHANICAL/ ELECTRICAL NEW WORK PLAN

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

KEYED MECHANICAL/ ELECTRICAL NOTES:

1. PROVIDE NEW 4' CONCRETE HOUSE KEEPING PAD.
2. PROVIDE 20A 208V CIRCUIT BACK TO EXISTING PANEL, PROVIDE 20A 2 POLE DEVICE IN PANEL.
3. PROVIDE 60A 208V 3Ø CIRCUIT BACK TO EX. PANEL, PROVIDE 60A 3 POLE DEVICE.
4. PROVIDE 45A 208V 3Ø CIRCUIT BACK TO EX. PANEL, PROVIDE 45A 3 POLE DEVICE.
5. PROVIDE 50A 208V 3Ø CIRCUIT BACK TO EX. PANEL, PROVIDE 50A 3 POLE DEVICE.
6. CONTRACT SHALL REUSE EXISTING SERVICE OUT TO ACCOMMODATE NEW UNITS, IF EXISTING OUTLETS ARE NOT CODE COMPLIANT ADD ADDITIONAL SERVICE OUTLETS AS REQUIRED.
7. CONTRACT SHALL PROVIDE AN EMERGENCY 'STOP BUTTON' WITH ACCESS COVER NEAR MAIN ENTRANCE. STOP BUTTON SHALL DE-ENERGIZE ALL GAS FIRED HVAC UNITS.
8. EQUIPMENT DISCONNECT GRAPHICALLY SHOWN ON WALL, CONTRACTOR MOUNT DISCONNECTS TO PROVIDE CODE REQUIRED CLEARANCE, SHIFT AS REQUIRED.

Leslie S. Grim, P.E.

Digitally signed by Leslie Grim, PE
DN: cn=Leslie Grim, PE, o=L.S. Grim Inc., ou, email=lsgrim@lsgrim.com, c=US
Date: 2017.06.27 14:17:30 -04'00'

Leslie S. Grim, P.E.

STATE OF MARYLAND · LESLIE SCOTT GRIM · REGISTERED 14401 · PROFESSIONAL ENGINEER

16-071

L.S. GRIM, INC.
Consulting Engineers
MAIN OFFICE
19922 JEFFERSON BLVD., HAGERSTOWN, MD 21742-4367
PHONE: 301.797.1702 FAX: 301.797.4931
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DC METRO OFFICE
2275 RESEARCH BLVD., SUITE 500, ROCKVILLE, MD 20850

WASHINGTON COUNTY GOVERNMENT
BUILDING CORE MECH UPGRADE
80 W. BALTIMORE ST HVAC

MECH/ELECTRICAL NEW WORK PLAN

Professional Certification

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 14401
Expiration Date: 4/21/2017

LESLIE SCOTT GRIM, P.E.

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NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032636E
VA PROF. ENG. NO. 023240
~~WV PROF. ENG. NO. 10764~~

REV.	DATE	COMMENT
A	6-10-17	FOR PERMIT
B	6-26-17	PLAN REVIEW COMMENTS
C		
D		
E		
F		
G		
H		

DRAWN BY: NAME

ME-2
OF 3 SHEETS
DATE: JUNE 10, 2017

Slab Mounted Rooftop Unit Schedule												
Tag	Area Served	Cooling Capacity (Btuh)	CFM	Heating Output Capacity (Btuh)	AFUE %	SEER	MCA	Max Fuse	V-0-Nz	Trane Model Number	Supply Fan	Stages
RTU-1	Perimeter	119,000	4,000	160,000	80	12.4	50	60	208-3-60	YHC120F3EYA00E1C100000200000	High Static Drive	2*
RTU-2	Interior	61,000	2,000	49,000	80	15.0	32	45	208-3-60	YHC060F3EXA00E0C100000200000	Standard Drive	1
RTU-3	Interior + perimeter	64,800	2,400	64,800	81	13.1	37	50	208-3-60	YHC074F3EXA00E0C100000200000	Standard Drive	1

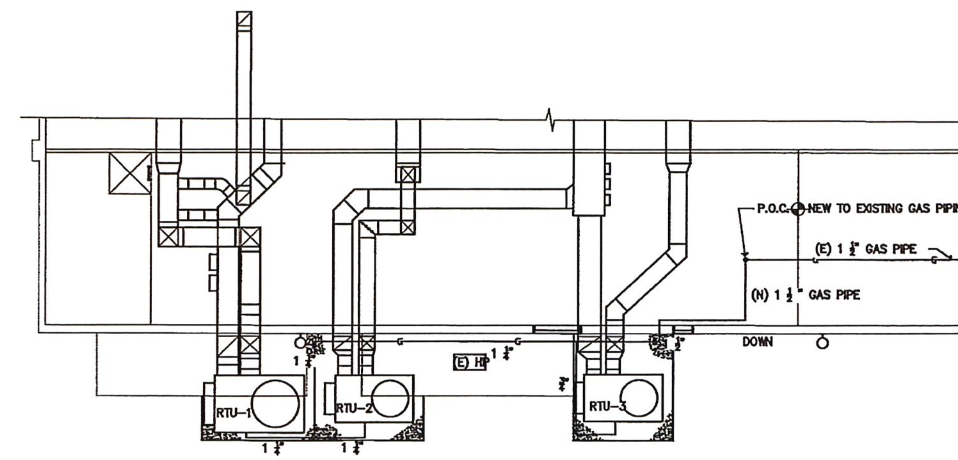
*RTU-1 shall have two independent refrigeration circuits with the second stage able to operate if stage one fails

Electric Baseboard Schedule					
Tag	Area Served	Length	Watts	V-0-Hz	Control
EBB-1	Receptionist	4'-0"	1,000	208-1-60	Integral in EBB
EBB-2	Waiting	4'-0"	1,000	208-1-60	Zone 5 Aux Heat
EBB-3	Waiting	4'-0"	1,000	208-1-60	Zone 5 Aux Heat
EBB-4	Waiting	4'-0"	1,000	208-1-60	Zone 5 Aux Heat
EBB-5	Exit Steps/Survey	3'-0"	750	208-1-60	Zone II Aux Heat

VVT BOX SCHEDULE				
Tag	Area Served	Size (DIA X LENGTH)	CFM	Take-off size
1	DIRECTOR	6" X 19" L	250	8"
2	MEN'S ROOM	6" X 19" L	180	6"
3	WOMEN'S ROOM	6" X 19" L	180	6"
4	LOUNGE	8" X 19" L	345	10"
5	WAITING/RECPTIONIST	12" X 21" L	885	14"
6	CONSULTING	8" X 19" L	295	10"
7	D.D. - PERMITTING	6" X 19" L	200	8"
8	D.D. PLAN REVIEW	6" X 19" L	190	8"
9	CHIEF PLAN EXAMINER	6" X 19" L	130	6"
10	PROJECT LIASON	6" X 19" L	130	6"
11	SURVEY/STORAGE	10" X 21" L	720	12"
12	DD - CONSTRUCTION	6" X 19" L	170	6"
13	DD - ENGINEERING	6" X 19" L	170	6"
14	REAL PROP ADMIN	6" X 19" L	135	6"
15	PROJECT LIASON	6" X 19" L	75	6"
16	Elect. / Tel.	6" X 19" L	275	6"
			4330	

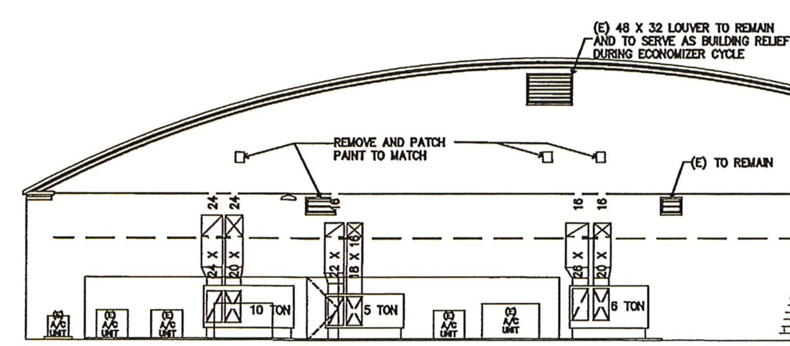
Bypass Damper Schedule			
Tag	Size	CFM @ Full Bypass	% of AHU Total
1	12" DIA	1538	71
2	12" DIA	1538	

Note: Bypass dampers will work in parallel



FUEL GAS PIPING PLAN

NO SCALE



REAR ELEVATION @ NEW EQUIPMENT

NO SCALE

System Description

RTU – 1

Controls shall be the Auto–Zone Plus System manufactured by Watt Master Controls. Pressure dependent zone controllers shall serve (16) offices/areas. Bypass dampers shall be located on the mezzanine. The System Manager shall be located in the Electrical/Telephone room. Volume damper shall be installed at the take off serving each zone controller. Where zone dampers are smaller than the take off duct and supply flex feeding the ceiling diffuser, there shall be prefabricated reducers and expanders attached directly to the zone controller. Zone #5 controller shall have an auxiliary heat relay to energize EBB–2, –3 & –4 when the room temperature falls 0.5F below set point. This will allow the waiting area to attempt to satisfy its own heating need before creating a heating demand at the Zone Manager. The electric baseboard serving the Receptionist shall have an integral thermostat in the baseboard for the totally independent control. Zone # 11 controller shall have an auxiliary heat relay to energize EBB–5 when the room temperature falls 0.5 F below set point. This will allow the Exit Stepe/Survey Area to attempt to satisfy its own heating need before creating a heating demand at the zone manager.

The Auto Zone System shall include the following and also have any hardware required by the manufacturer not necessarily mentioned here: Outside air temperature sensor, supply air temperature sensor, return air temperature sensor, bypass dampers, zone air damper, static pressure sensor, system manager, room sensor, zone controller, auxiliary heat relay (2 Zones) and zone manager.

RTU–2 & –3

These two system shall be constant volume, single zone systems.

General Notes/ Phasing

1. RTU–3 shall be installed first since it can be set in its new slab and duct run up the wall and into the mezzanine without interferring with the existing equipment. This system shall be tied into the existing ductwork and made operational while keeping the other two existing system operational.
2. RTU–2 shall follow RTU–1
3. RTU–3 shall follow RTU–2
4. New concrete pads shall be poured and fencing removed.
5. Exposed duct shall be covered with 2" thick fiberglass FSK board with stick pins and covered with MFM Flex Clad.
6. Sheet metal sizes are clear inside dimensions.
7. Inside of building ducts shall be wrapped with 2" fiberglass

Leslie S. Grim, P.E.

Digitally signed by Leslie Grim, PE
DN: cn=Leslie Grim, PE, o=L.S. Grim Inc., ou, email=lsgrim@lsgrim.com, c=US
Date: 2017.06.27 14:16:10 -04'00'

Leslie S. Grim, P.E.

STATE OF MARYLAND LESLIE SCOTT GRIM REGISTERED 14401 PROFESSIONAL ENGINEER

16-071

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WASHINGTON COUNTY GOVERNMENT
BUILDING CORE MECH UPGRADE
80 W. BALTIMORE ST HVAC

DETAILS/NOTES/SCHEDULES

Professional Certification

I certify that these documents were prepared or approved by me, and that I am a duly licensed engineer under the laws of the State of Maryland

License Number: 14401

Expiration Date: 4/21/2017

LESLIE SCOTT GRIM, P.E.

CO PROF. ENG. NO. PE0050461
DC PROF. ENG. NO. PE901201
DE PROF. ENG. NO. 9513
GA PROF. ENG. NO. PE032562
HI PROF. ENG. NO. PE13943
MD PROF. ENG. NO. 14401
NC PROF. ENG. NO. 033364
NJ PROF. ENG. NO. 39497
NY PROF. ENG. NO. 075414
PA PROF. ENG. NO. PE032636E
VA PROF. ENG. NO. 023240
~~WV PROF. ENG. NO. 10764~~

REV.	DATE	COMMENT
A	6–10–17	FOR PERMIT
B	6–26–17	PLAN REVIEW COMMENTS
C		
D		
E		
F		
G		
H		

DRAWN BY: NAME

ME–3

OF 3 SHEETS

DATE: JUNE 10, 2017