### CAMDEN COUNTY

### RENOVATION & MODERNIZATION REGAN BUILDING

508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012 CAMDEN COUNTY, NEW JERSEY

### BACH Associates, PC ENGINEERS • ARCHITECTS • PLANNERS

### **Code Review Data: Index of Drawings:** APPLICABLE BUILDING CODES & GUIDELINES **COVER SHEET AND INDEX OF DRAWINGS** 2018 INTERNATIONAL BUILDING CODE - NEW JERSEY EDITION ADA GUIDELINES 2018 INTERNATIONAL MECHANICAL CODE 2018 INTERNATIONAL FUEL GAS CODE BASEMENT FLOOR DEMOLITION PLAN 2017 NATIONAL ELECTRIC CODE 2018 NATIONAL STANDARD PLUMBING CODE FIRST FLOOR DEMOLITION PLAN 2009 ICC/ANSI A117.1 **SECOND FLOOR DEMOLITION PLAN** USE GROUP CLASSIFICATION (304.1) BASEMENT AND FIRST FLOOR PLANS **A-1** R-2**A-2** SECOND FLOOR PLAN AND DETAILS TYPE OF CONSTRUCTION (CHAPTER 6) REFLECTED CEILING PLANS **BUILDING SECTION A-3** HEIGHT AND AREA LIMITATIONS (TABLE 503) **TOILET ROOM FLOOR PLANS AND ELEVATIONS** R2, SM, 3 STORY 55', 21,00 SF- (5B CONSTRUCTION) TOILET ROOM FLOOR PLANS AND ELEVATIONS AREA OF FLOOR PLAN: TOILET ROOM FLOOR PLANS AND ELEVATIONS R2: BASEMENT GROSS SQUARE FOOTAGE: 4,416 SF (SPRINKLED) **TOILET ROOM FLOOR PLANS AND ELEVATIONS A-7** R2: 1ST FLOOR GROSS SQUARE FOOTAGE: 4.714 SF (SPRINKLED) R2: 2ND FLOOR GROSS SQUARE FOOTAGE: 4,714 SF (SPRINKLED) TOILET ROOM FLOOR PLANS AND ELEVATIONS **COUNTER DETAILS DOOR SCHEDULE AND DETAILS ROOM SCHEDULE AND DETAILS** BASEMENT DIMENSIONS PLAN FIRST FLOOR DIMENSIONS PLAN SECOND FLOOR DIMENSIONS PLAN GENERAL NOTES AND DETAILS FOUNDATION AND FIRST FLOOR FRAMING PLANS FLOOR AND ROOF FRAMING PLANS

ECS	ELECTRICAL COVER SHEET
E-1.0	BASEMENT PLAN, LIGHTING, POWER AND SYSTEMS
E-1.1	FIRST FLOOR PLAN, LIGHTING, POWER AND SYSTEMS
E-1.2	SECOND FLOOR PLAN, LIGHTING, POWER AND SYSTEMS
E-2.0	SINGLE LINE DIAGRAM AND DETAILS
E-2.1	PANEL SCHEDULES
E-2.2	DETAILS
M-1.0	MECHANICAL COVER SHEET
M-2.0	MECHANICAL FLOOR PLANS
<b>M-2.1</b>	MECHANICAL FLOOR PLAN
<b>M-3.0</b>	MECHANICAL SCHEDULE AND NOTES
<b>M-4.0</b>	MECHANICAL DETAILS
P-1.0	PLUMBING COVER SHEET
<b>P-2.0</b>	PLUMBING FLOOR PLANS, WASTE AND VENT
P-2.1	PLUMBING FLOOR PLANS, WASTE AND VENT
<b>P-2.2</b>	PLUMBING FLOOR PLANS, WATER AND GAS
P-2.3	PLUMBING FLOOR PLANS, WATER AND GAS
P-3.0	SANITARY RISER DIAGRAMS
P-3.1	DOMESTIC WATER GAS PIPING RISER DIAGRAMS
<b>P-4.0</b>	PLUMBING DETAILS, WATER AND GAS

UPON RECEIPT OF SIGNED AND SEALED PLANS. IT IS THE RESPONSIBILITY OF THE OWNER / CONTRACTOR TO VERIFY THAT ALL DESIGN ISSUES AND REQUIREMENTS HAVE BEEN MET AND ALL PARTIES INVOLVED HAVE REVIEWED THE PLANS AND EXISTING SITE CONDITIONS FULLY. ANY QUESTIONS OR DISCREPANCIES REGARDING THE PLANS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT **BEFORE** CONSTRUCTION BEGINS. FAILURE TO NOTIFY THE ARCHITECT OF DISCREPANCIES AND/OR UNSATISFACTORY CONDITIONS WILL BE CONSTRUED AS ACCEPTANCE OF THE CONDITIONS TO PROPERLY PERFORM ALL REQUIRED WORK.

**Notes:** 

THESE DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ARCHITECTURE, DESIGN CONCEPT OF THE BUILDING AND ANY MAJOR ARCHITECTURAL ELEMENTS OR MAJOR TYPES OF MEP, FIRE PROTECT AND STRUCTURAL ELEMENTS. THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK FOR FULL PERFORMANCE AND COMPLETION OF THE SCOPE INDICATED, DESCRIBED, OR IMPLIED. THE GENERAL CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND TIMELY COMPLETION OF THIS PROJECT.

THE GENERAL CONTRACTOR SHALL DISTRIBUTE FULL SETS OF CONSTRUCTION DOCUMENTS TO ALL SUB-CONTRACTORS. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DIVIDE AND COORDINATE WORK OF ALL TRADES.

ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND NATIONAL STANDARDS.

SOME NOTES AND DETAILS WITHIN THIS PLAN SET MAY NOT APPLY, BUT STILL SHOULD BE REVIEWED IN ITS ENTIRETY.

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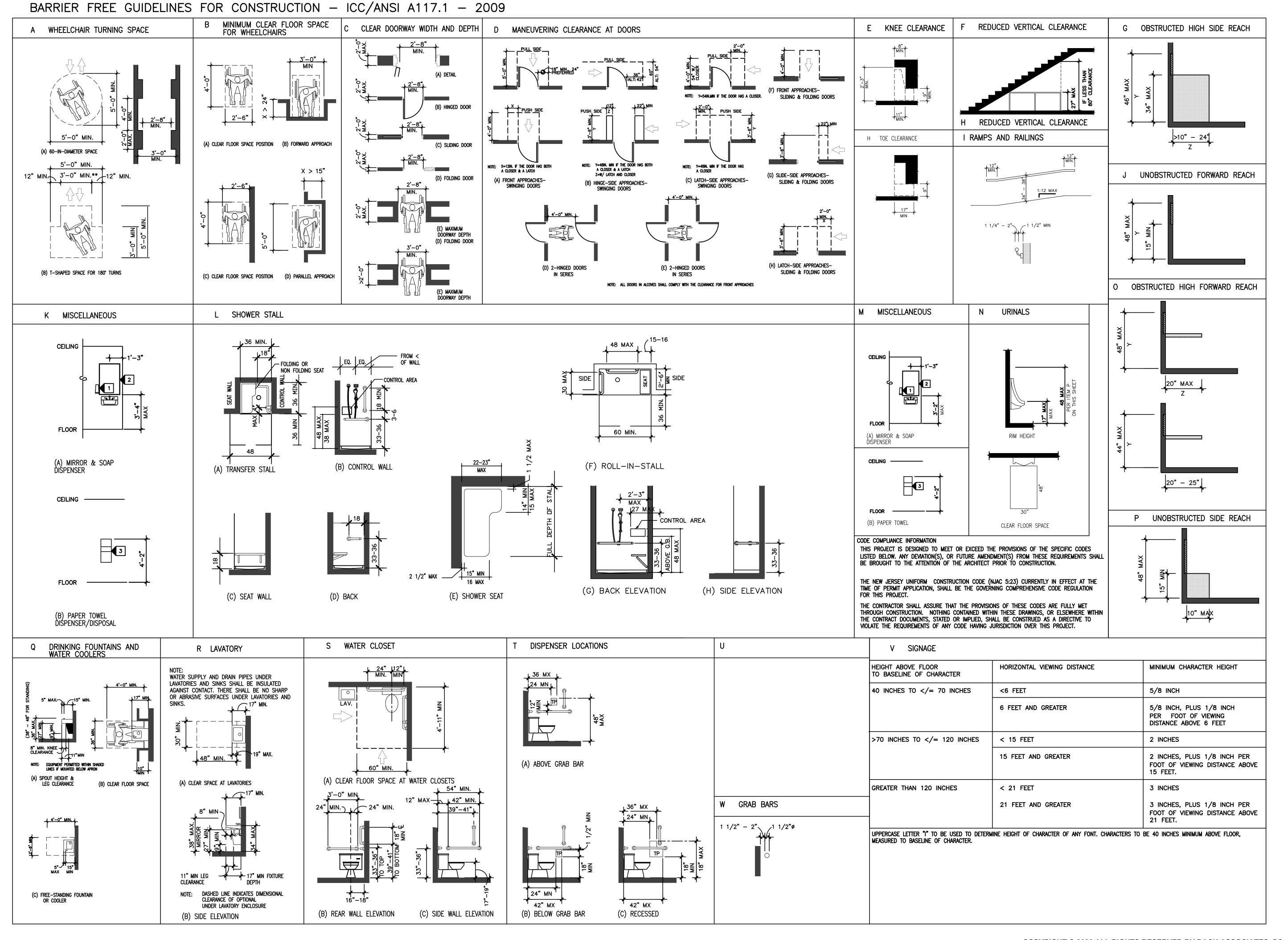
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AWING TITLE: **COVER SHEET AND INDEX OF DRAWINGS** 

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	SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW
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**C-1** 

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### **DIRK MUITS III, AIA**

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### **ADA GUIDELINES**

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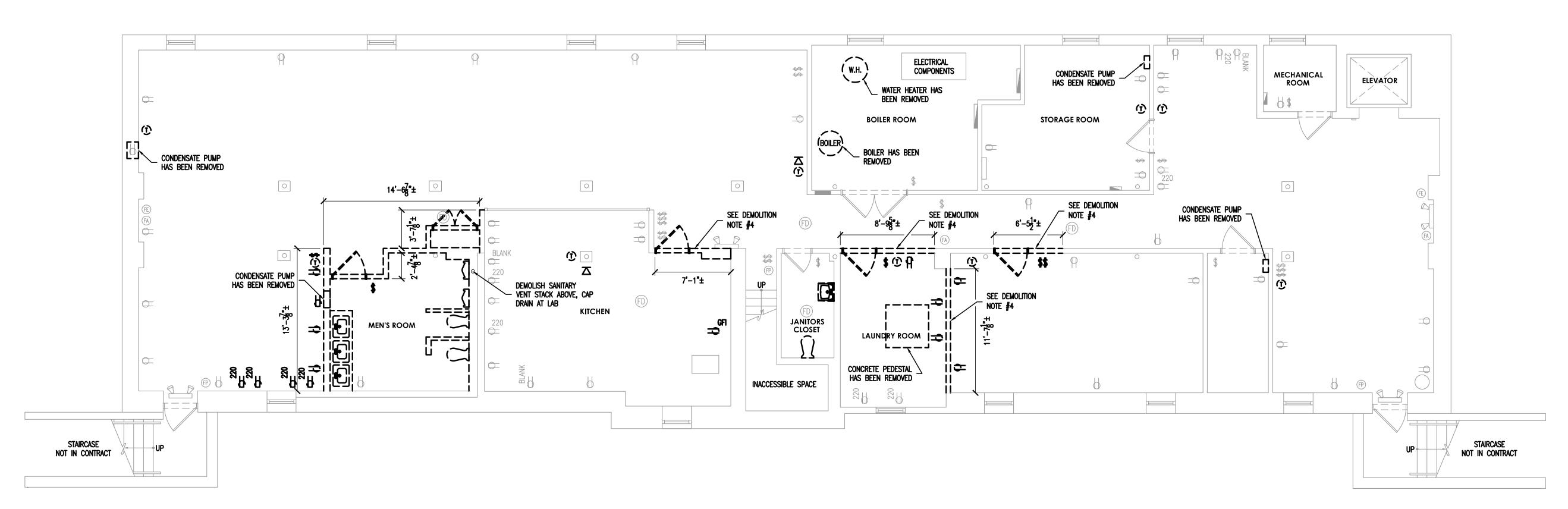
### DEMOLITION NOTES:

1. ALL PLUMBING FIXTURES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)

2. ALL DOORS AND FRAMES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)

3. ALL WALLS LABELED FOR DEMOLITION HAVE BEEN REMOVED UNLESS OTHER WISE NOTED (SHOWN FOR INFORMATION ONLY)

4. CONTRACTOR TO DEMOLISH WALL(S)



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



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CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
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### BASEMENT FLOOR DEMOLITION PLAN

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**D-1** 

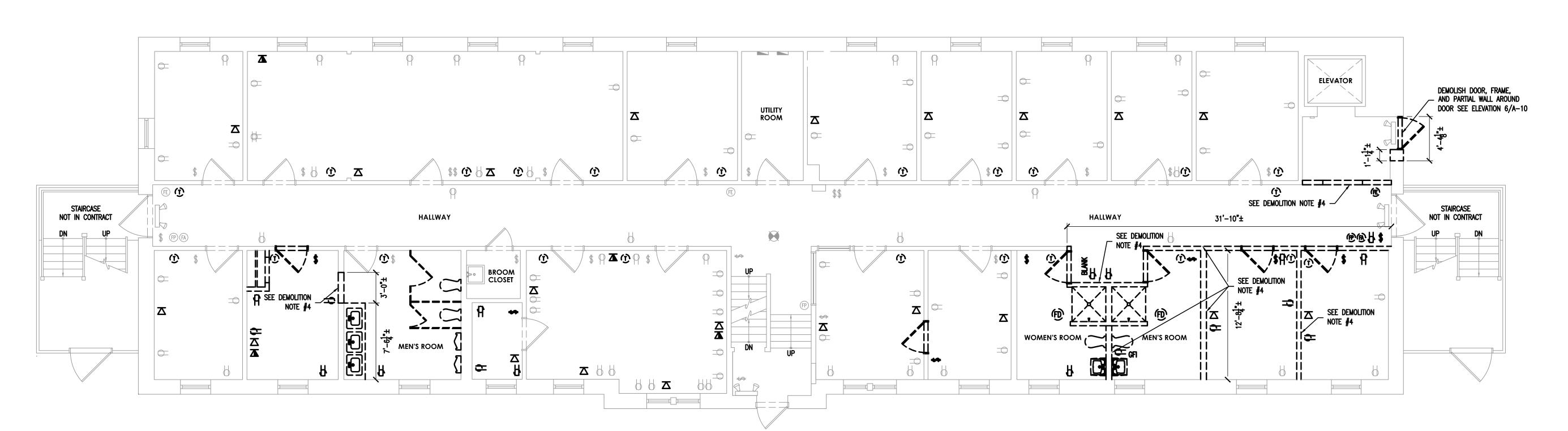
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4. CONTRACTOR TO DEMOLISH WALL(S)



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



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FIRST FLOOR DEMOLITION PLAN

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**D-2** 

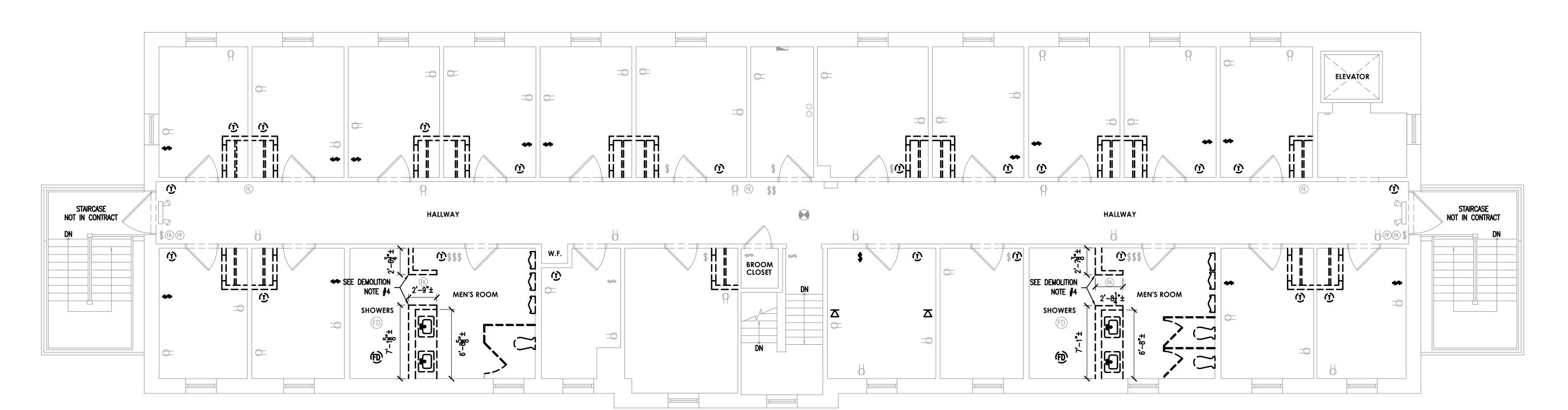
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2. ALL DOORS AND FRAMES HAVE BEEN REMOVED (SHOWN FOR INFORMATION ONLY)

3. ALL WALLS LABELED FOR DEMOLITION HAVE BEEN REMOVED UNLESS OTHER WISE NOTED (SHOWN FOR INFORMATION ONLY)

4. CONTRACTOR TO DEMOLISH WALL(S)



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

CAUTION:
CONTRACTOR TO TEMPORARILY BRACE ALL EXISTING
STRUCTURAL MEMBERS INCLUDING FOUNDATIONS, COLUMNS,
BEAMS, JOISTS, WALLS, FLOORS AND CEILINGS, ETC.
AS NECESSARY PRIOR TO DEMOLITION & CONSTRUCTION!

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SECOND FLOOR DEMOLITION PLAN

JOB NO:
CCIA2020-02

DATE:
OCTOBER 19, 2020

SCALE:
AS NOTED

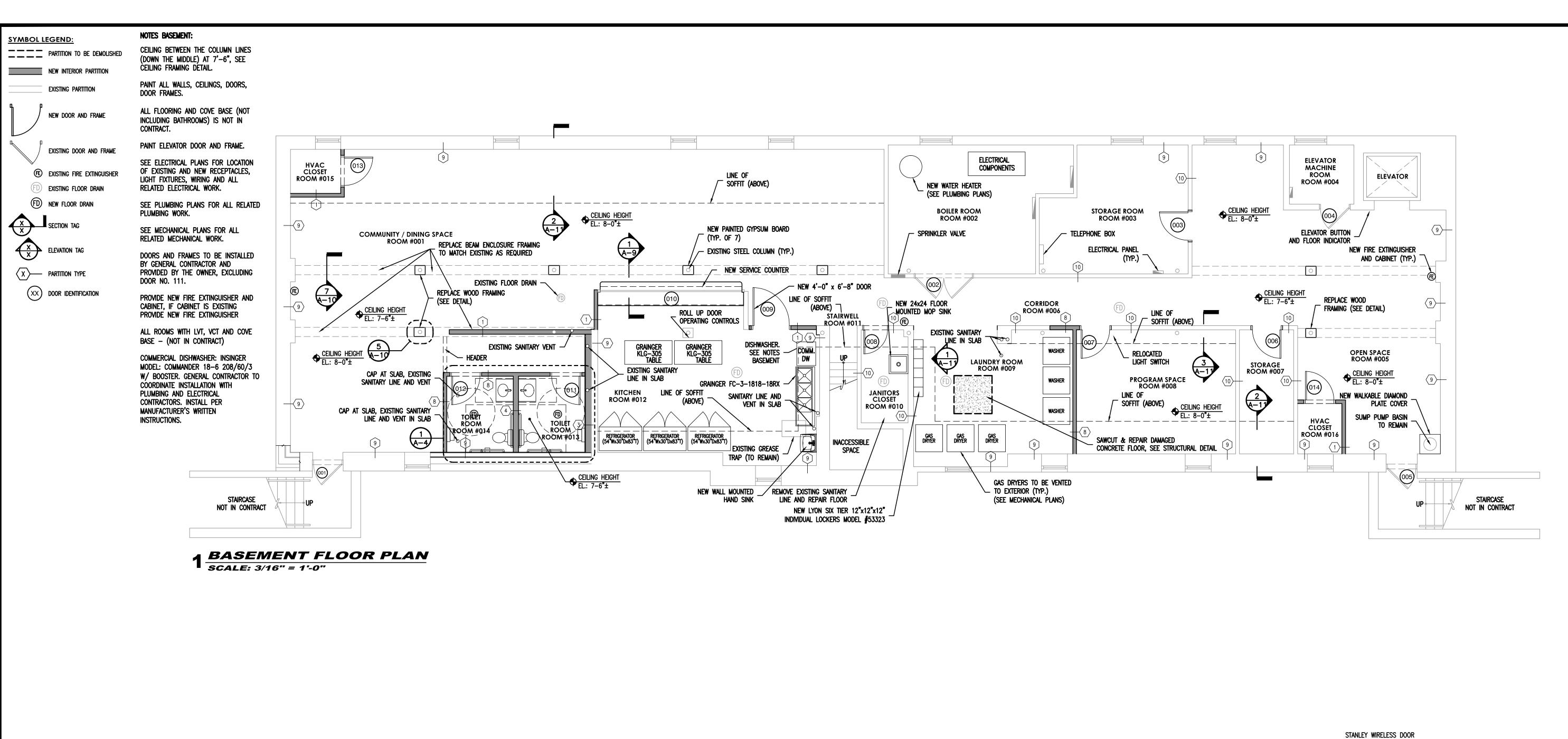
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SMB/DM3/AAW

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**D-3** 



NOTES FIRST FLOOR:

FRAMING DETAIL.

DOOR FRAMES.

ELECTRICAL WORK.

PLUMBING WORK.

ALL CEILINGS AT 8'-0", SEE CEILING

PAINT ALL WALLS, CEILINGS, DOORS,

ALL FLOORING AND COVE BASE (NOT

INCLUDING BATHROOMS) IS NOT IN

PAINT ELEVATOR DOOR AND FRAME.

SEE ELECTRICAL PLANS FOR LOCATION OF

SEE PLUMBING PLANS FOR ALL RELATED

SEE MECHANICAL PLANS FOR ALL

DOORS AND FRAMES TO BE INSTALLED BY GENERAL CONTRACTOR AND PROVIDED

BY THE OWNER, EXCLUDING DOOR NO.

PROVIDE NEW FIRE EXTINGUISHER AND CABINET, IF CABINET IS EXISTING PROVIDE

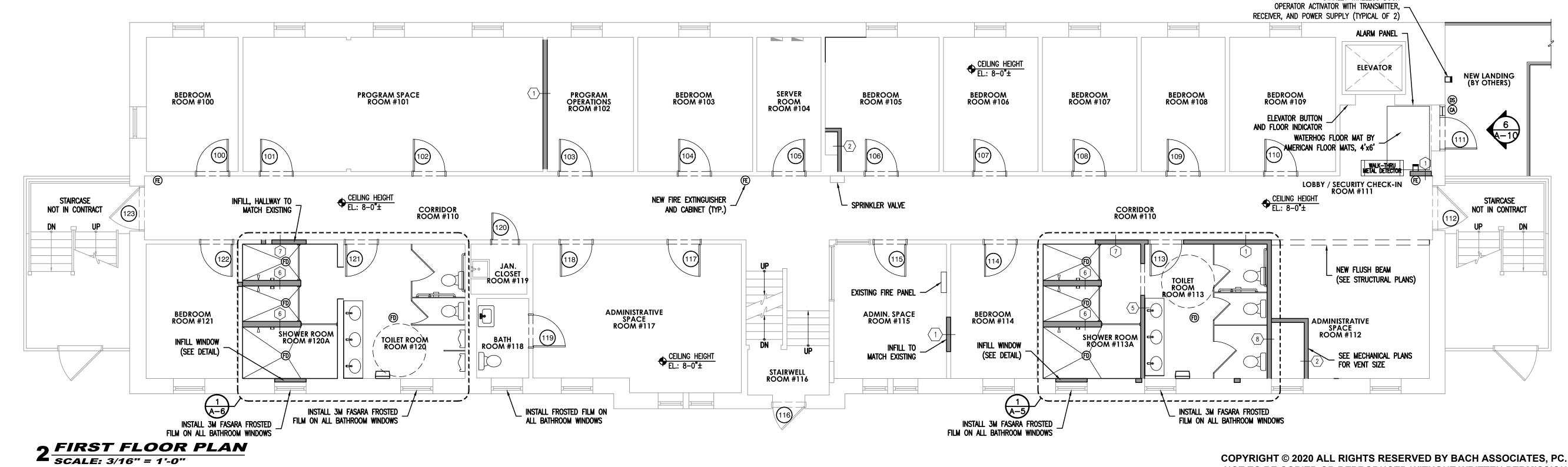
ALL ROOMS WITH LVT, VCT AND COVE

RELATED MECHANICAL WORK.

NEW FIRE EXTINGUISHER.

BASE - (NOT IN CONTRACT)

EXISTING AND NEW RECEPTACLES, LIGHT FIXTURES, WIRING AND ALL RELATED



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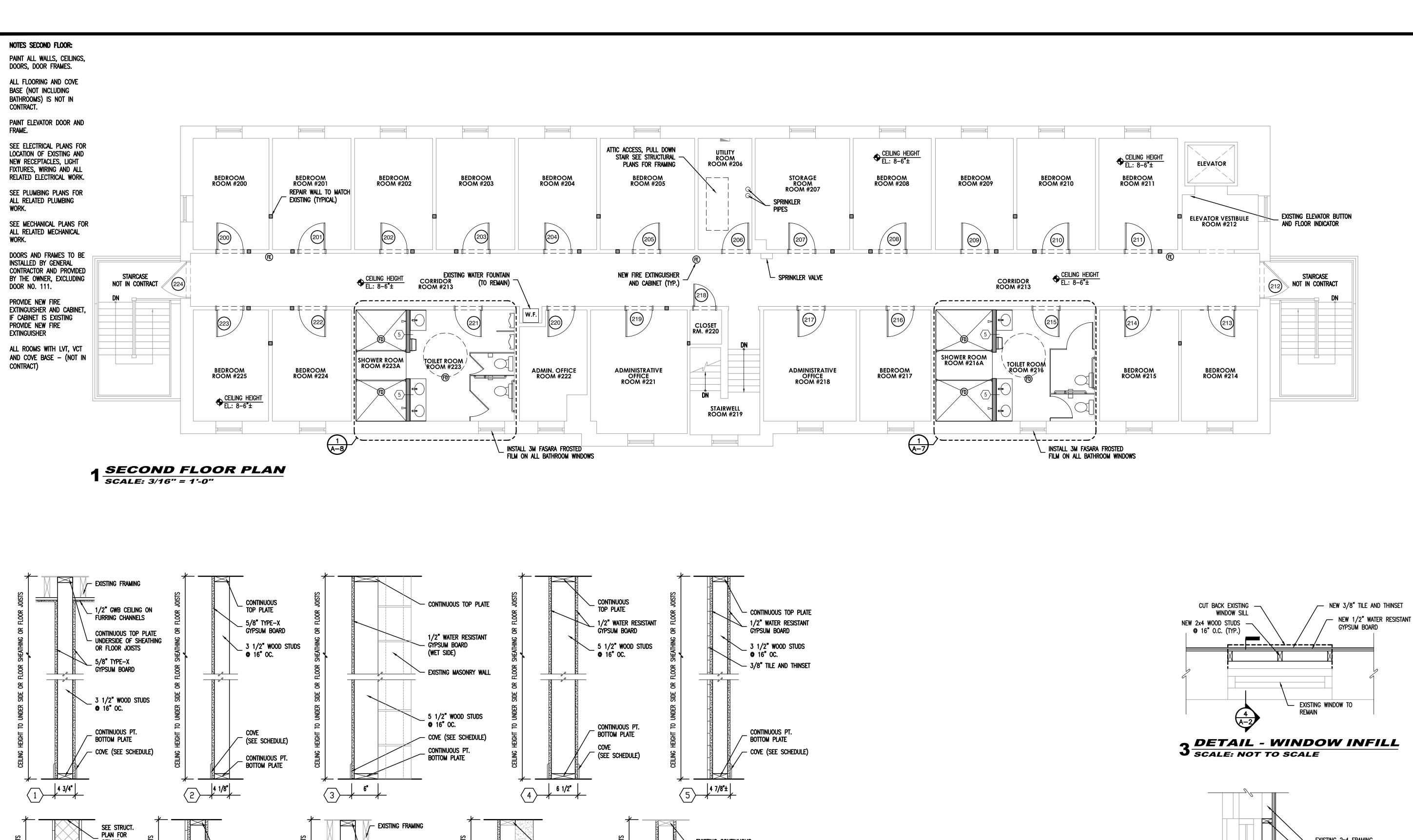
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DESCRIPTION

### **BASEMENT AND** FIRST FLOOR **PLANS**

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**EXISTING CONTINUOUS** 

─ 1/2" GYPSUM BOARD

- 1/2" GYPSUM BOARD

- EXISTING WOOD STUDS

BOTTOM PLATE

EXISTING CONTINUOUS PT.

COVE (SEE SCHEDULE)

TOP PLATE

EXISTING CONTINUOUS

EXISTING WOOD STUDS

EXISTING MASONRY

COVE (SEE SCHEDULE)

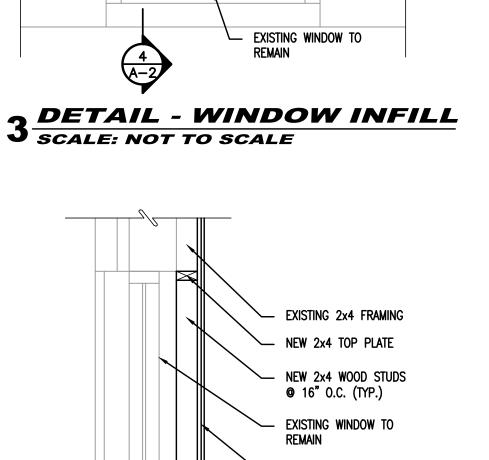
EXISTING CONTINUOUS

PT. BOTTOM PLATE

TOP PLATE

5/8" TYPE-X

GYPSUM BOARD



**DETAIL - WINDOW INFILL** 

─ NEW 1/2" WATER RESISTANT

NEW 2x4 BOTTOM PLATE

CUT BACK EXISTING

EXISTING 2x4 FRAMING

GYPSUM BOARD

─ NEW 3/8" TILE AND

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SCALE: NOT TO SCALE

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DESCRIPTION

**SECOND FLOOR PLAN AND DETAILS** 

DESIGNED BY: DM3/AAW/RH/BMG CCIA2020-02 OCTOBER 19, 2020 SMB/DM3/AAW AS NOTED RAWING NUMBER:

**A-2** 

SCALE: NOT TO SCALE NOTE: USE WONDER BOARD AT ALL WET LOCATIONS

7 5°±

CONTINUOUS TOP PLATE

1/2" WATER RESISTANT

3 1/2" WOOD STUDS

3/8" TILE AND THINSET

GYPSUM BOARD

**9** 16" OC.

5/8" TYPE-X

GYPSUM BOARD

CONTINUOUS PT.

BOTTOM PLATE

COVE (SEE SCHEDULE)

1/2" GWB CEILING ON

CONTINUOUS TOP PLATE

1/2" WATER RESISTANT

or floor joists

- GYPSUM BOARD

1/2" TYPE-X

GYPSUM BOARD

CONTINUOUS PT.

BOTTOM PLATE

3 1/2" WOOD STUDS

COVE (SEE SCHEDULE)

(wet side)

**9** 16" OC.

· UNDERSIDE OF SHEATHING

CEILING

CONNECTION

and thinset

BLOCK WALL

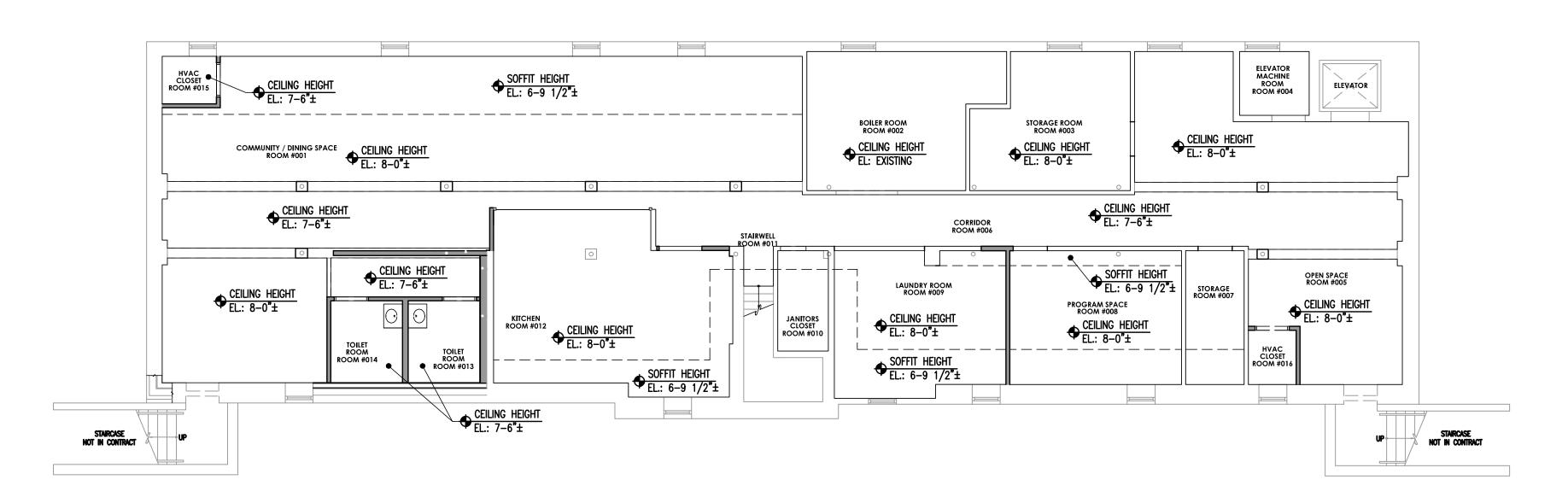
PARTITION TYPES

6 6° 3/8°±

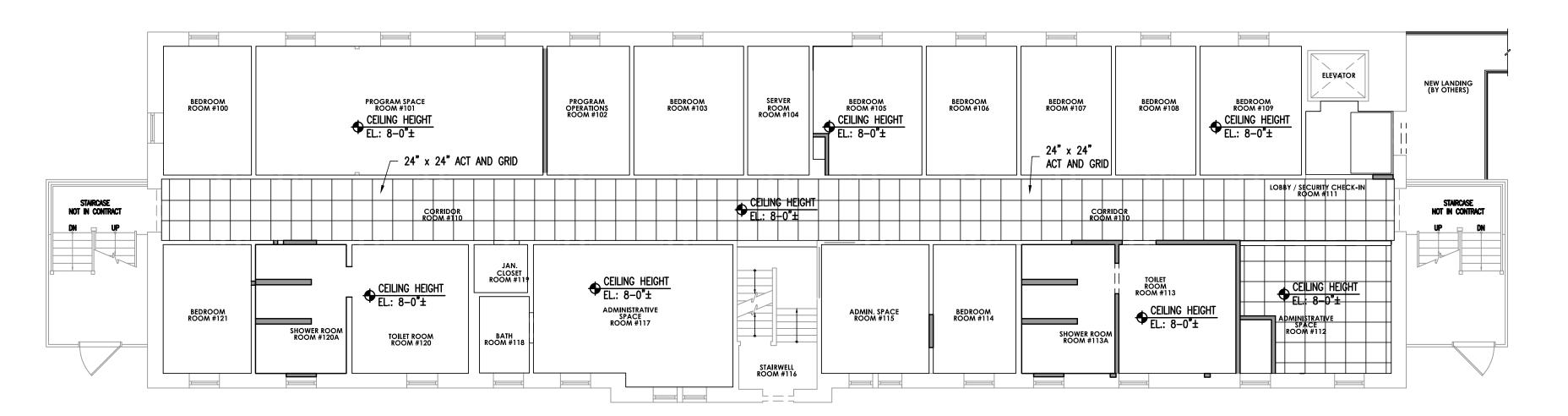
NOTES BASEMENT AND FIRST FLOOR:

ALL NEW GYPSUM CEILINGS.
PAINT ALL WALLS, CEILINGS,
DOORS, DOOR FRAMES.

SECOND FLOOR: EXISTING
GYPSUM CEILINGS.



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



### 2 FIRST FLOOR REFLECTED CEILING PLAN SCALE: 1/8" = 1'-0"



### 3 SECOND FLOOR REFLECTED CEILING PLAN SCALE: 1/8" = 1'-0"



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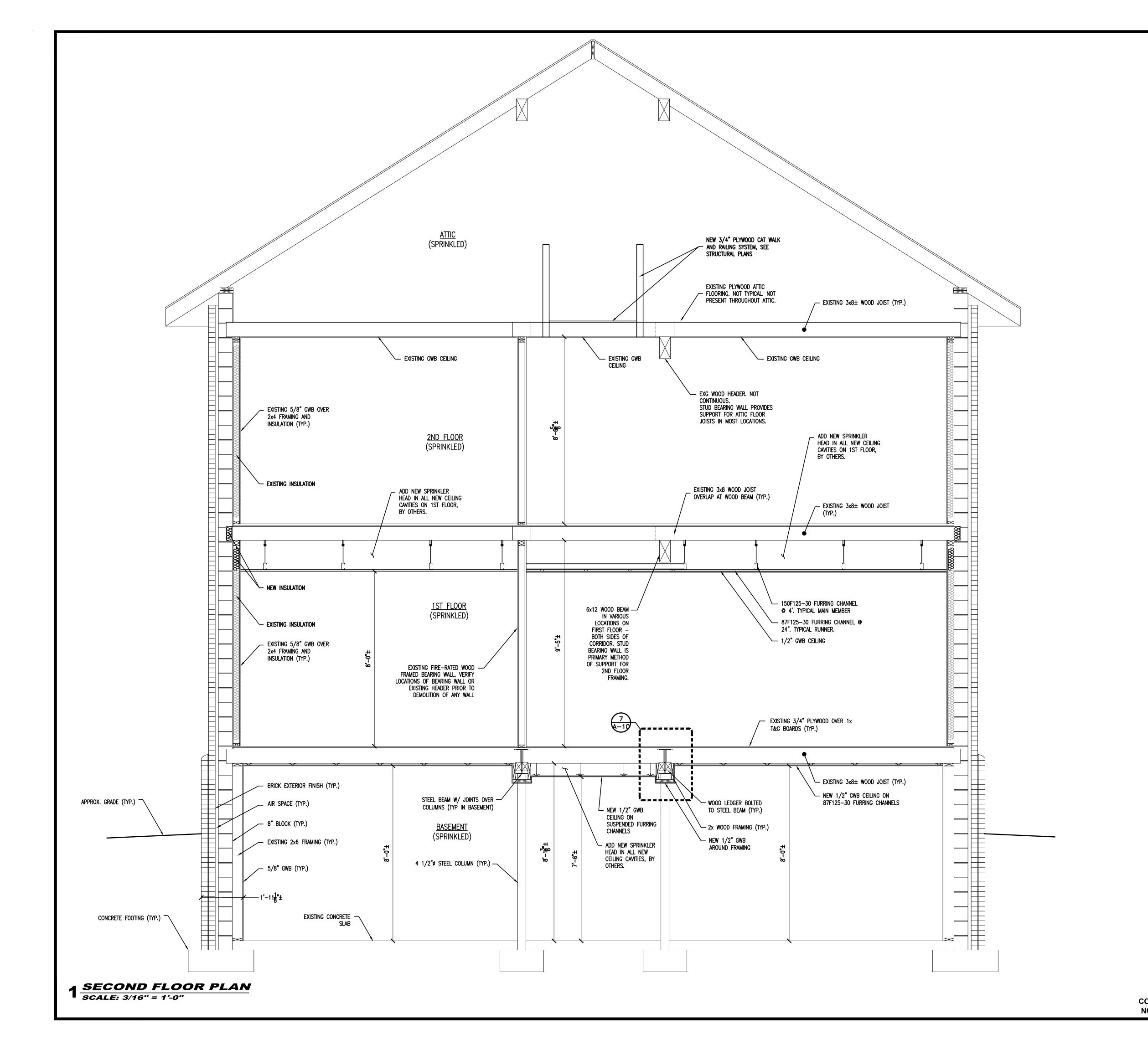
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REFLECTED CEILING PLANS

JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM
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CEALC:

### **DIRK MUITS III, AIA**

NJ REGISTERED ARCHITECT No. AI 15840
PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

# CAMDEN COUNTY RENOVATION & MODERNIZATION REGAN BUILDING

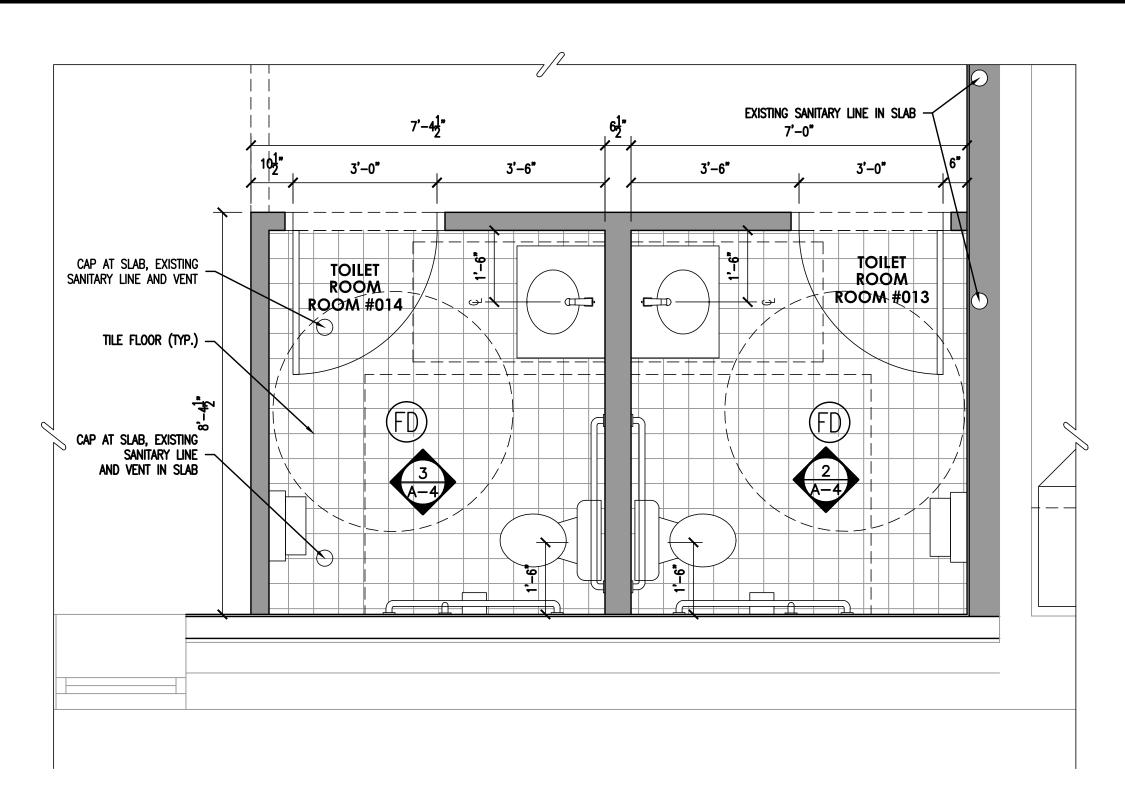
508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012 CAMDEN COUNTY, NEW JERSEY

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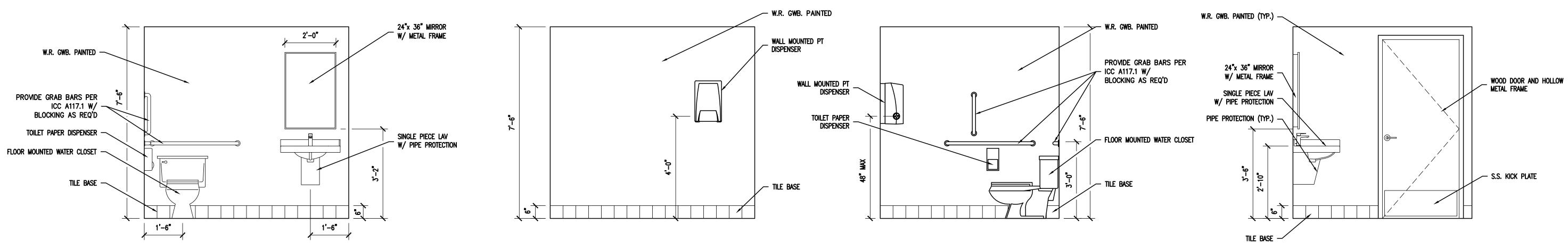
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NO.	DESCRIPTION	DATE
DRAWING TITLE.		

BUILDING SECTION

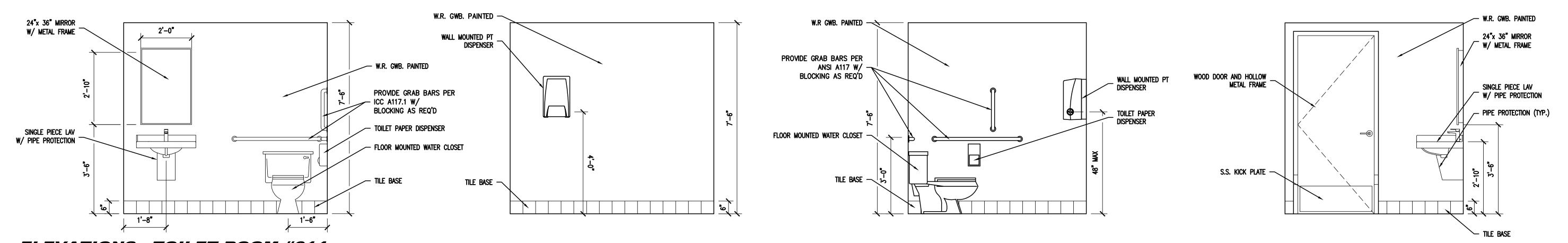
JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG
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### 1 FLOOR PLAN - TOILET ROOM #013 & #014 SCALE: 1/2" = 1'-0"



### 2 ELEVATIONS - TOILET ROOM #013 SCALE: 1/2" = 1'-0"



3 ELEVATIONS - TOILET ROOM #014 SCALE: 1/2" = 1'-0"

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### DIRK MUITS III, AIA

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PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068

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DC REGISTERED ARCHITECT No. ARC10237

ROJECT:

# CAMDEN COUNTY ENOVATION & MODERNIZATION REGAN BUILDING

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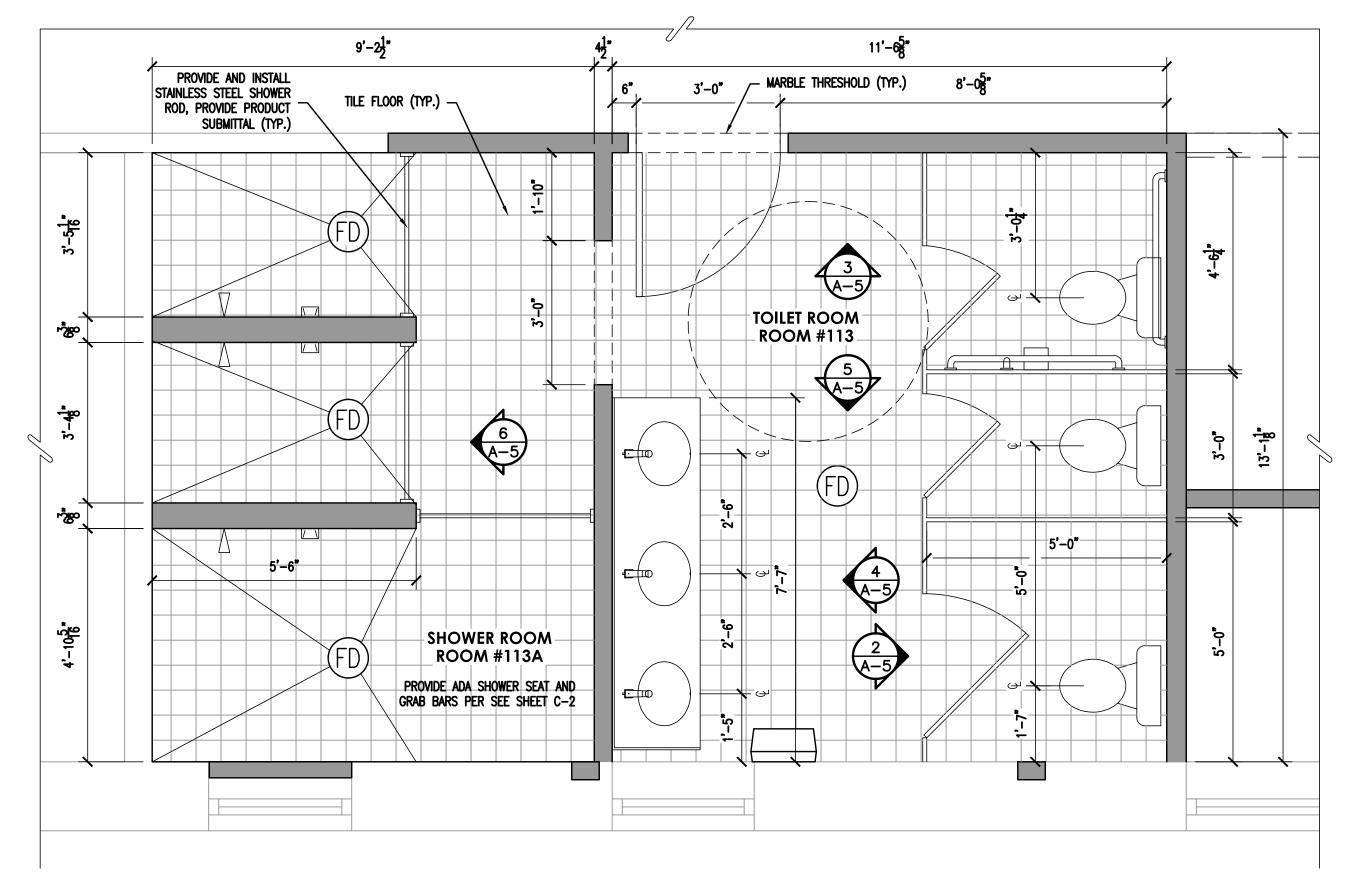
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TOILET ROOM FLOOR PLANS AND ELEVATIONS ROOMS 013 & 014

	JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG	
	DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM	
	SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW	

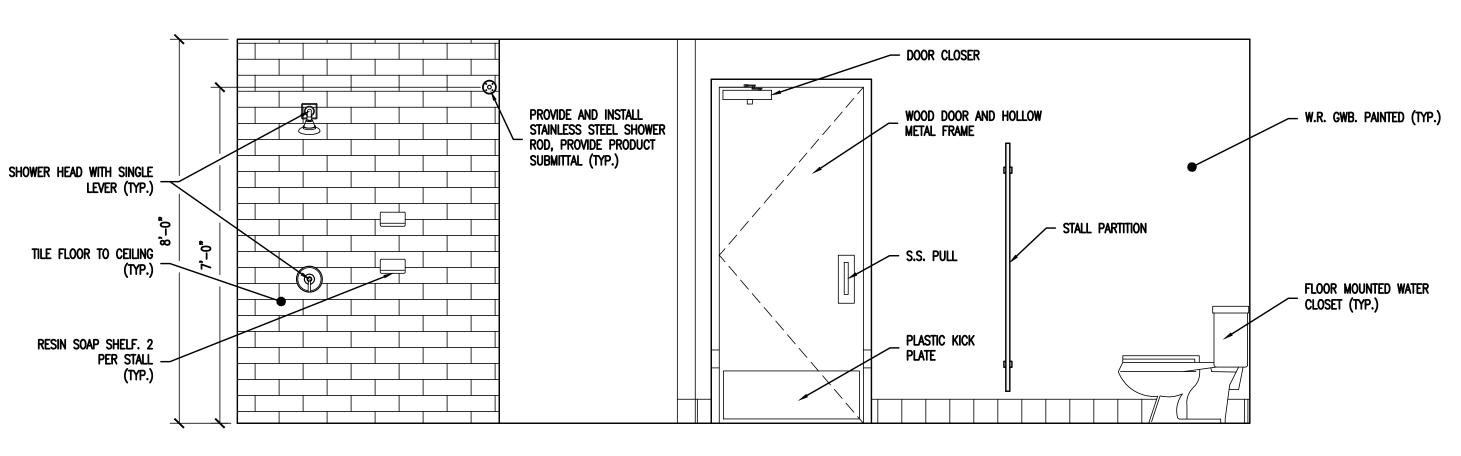
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DRAWING NUMBER:

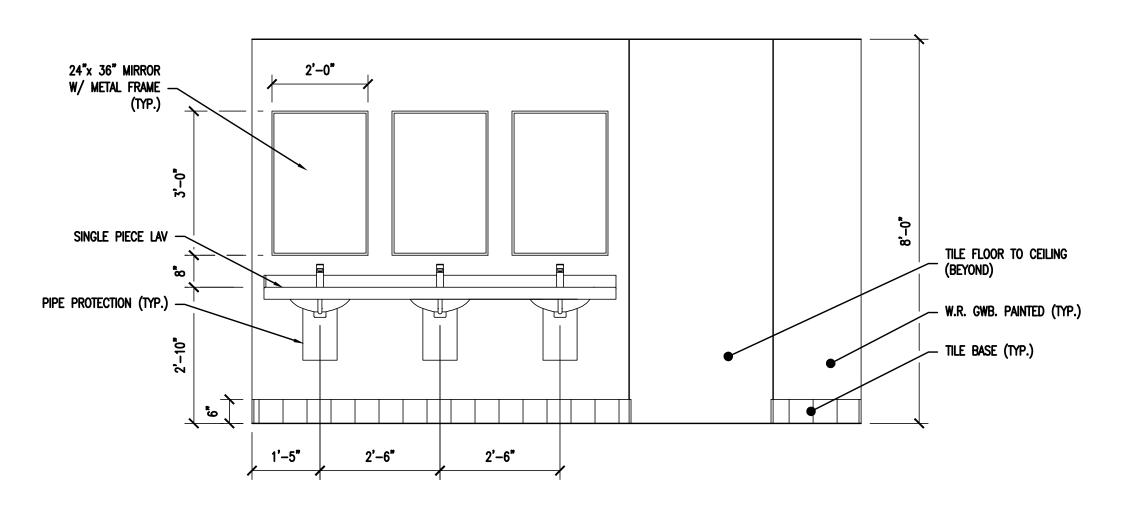


# W.R. GWB. PAINTED (TYP.) TOILET PAPER DISPENSER (TYP.) STALL PARTITION (TYP.) PROVIDE GRAB BARS PER ICC A117.1 W/ BLOCKING AS REQ'D TILE BASE 3'-01' 3'-1"

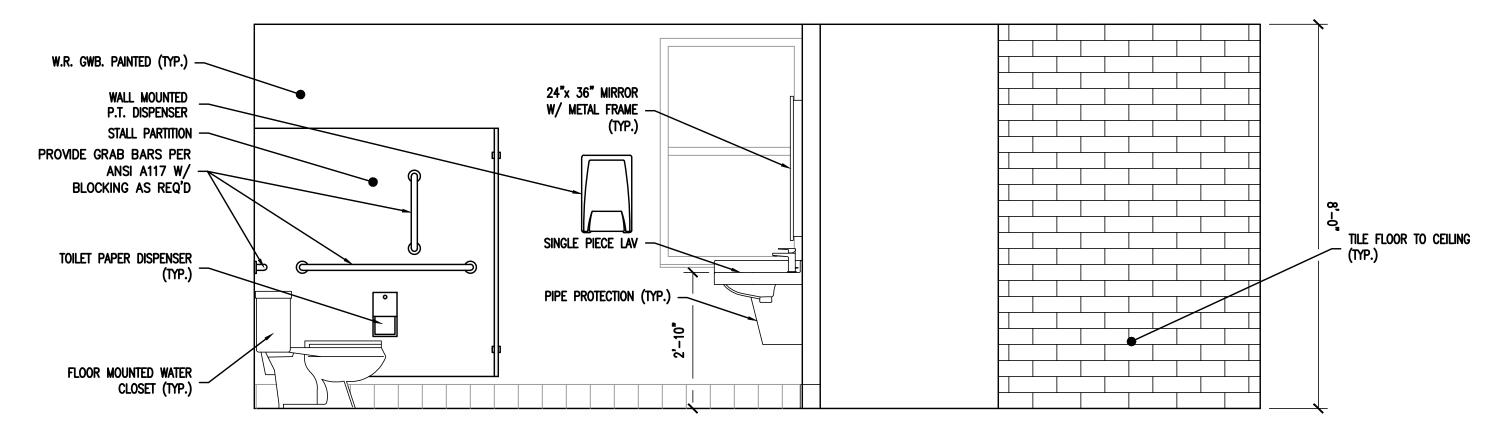
### 1 FLOOR PLAN - TOILET ROOM #113 & #113A scale: 1/2" = 1'-0"





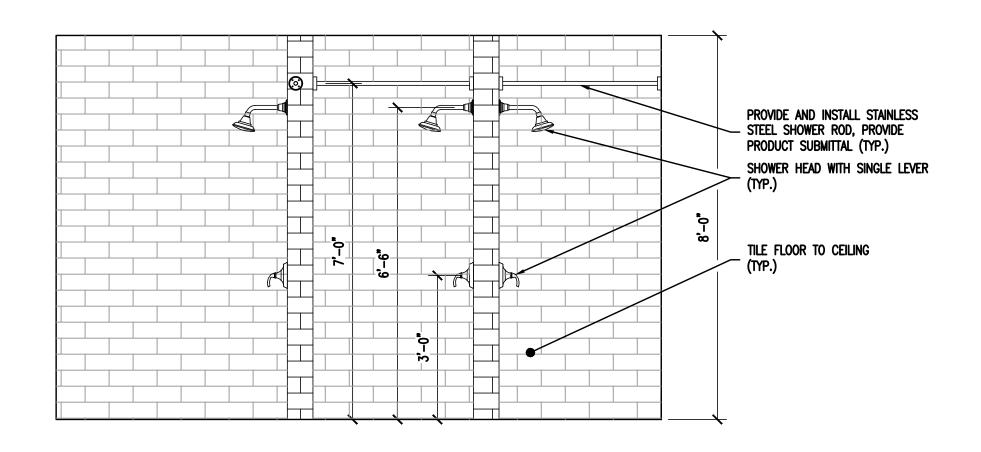


### 3 ELEVATIONS - TOILET ROOM #113 SCALE: 1/2" = 1'-0"



ELEVATIONS - TOILET ROOM #113

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



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

6 ELEVATIONS - TOILET ROOM #113

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NY REGISTERED ARCHITECT No. 029608-1
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MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102379

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PROJECT:

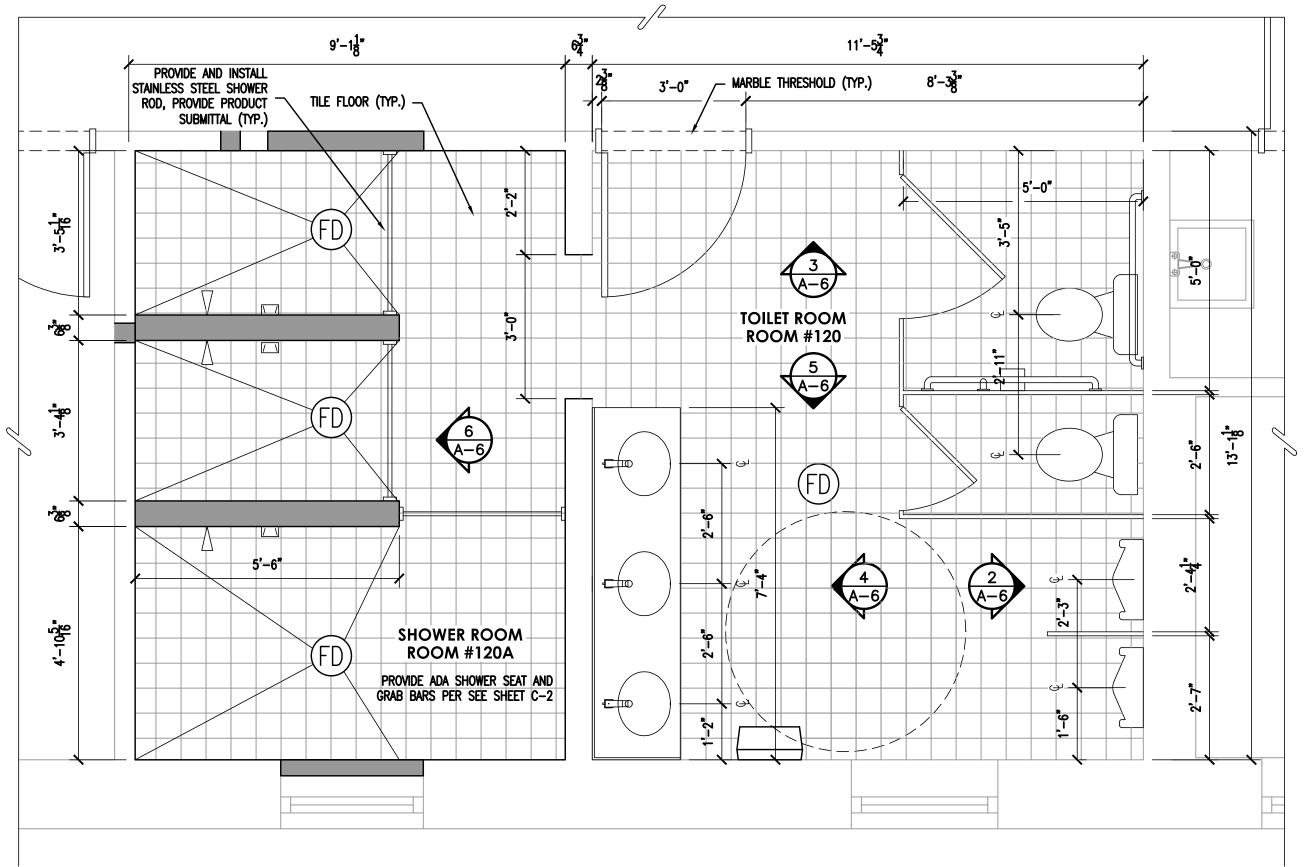
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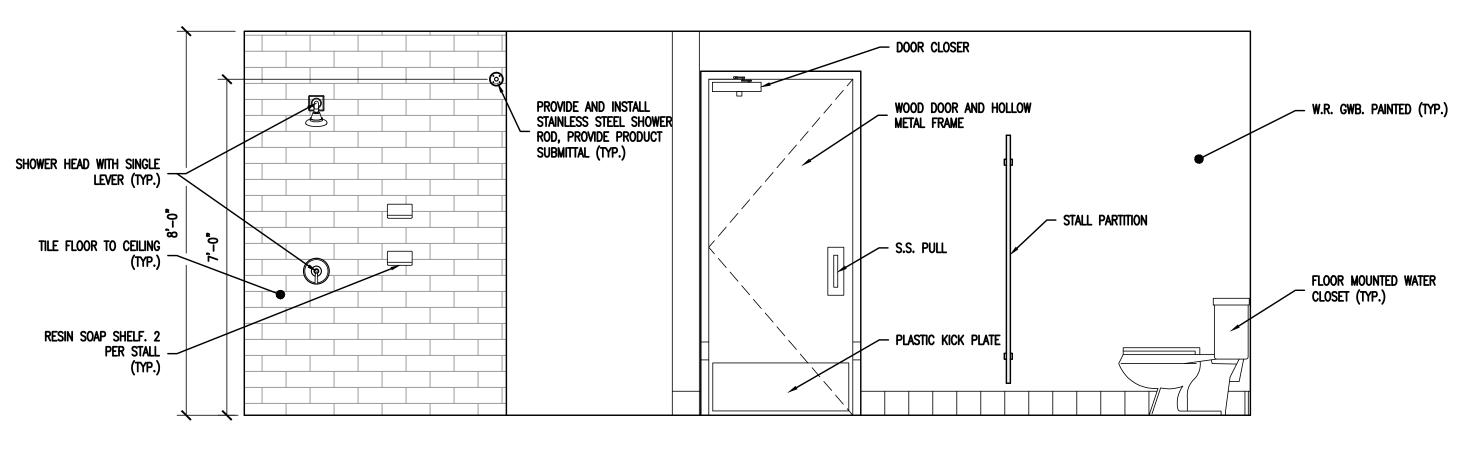
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NO.	DESCRIPTION	DATE	

TOILET ROOM
FLOOR PLANS
AND ELEVATIONS
ROOMS 113 & 113A

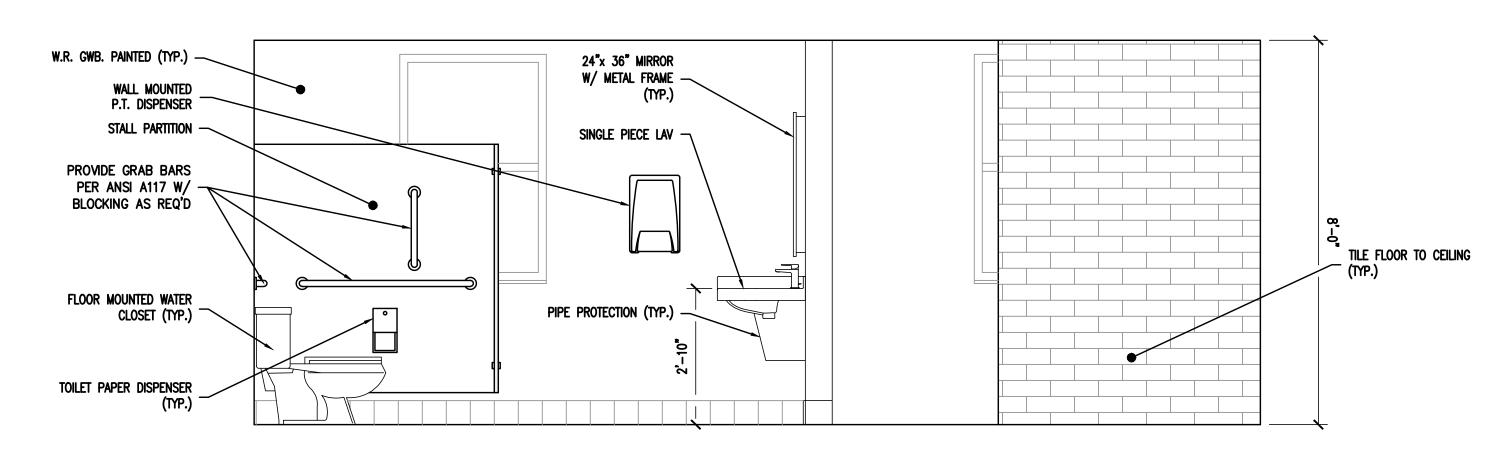
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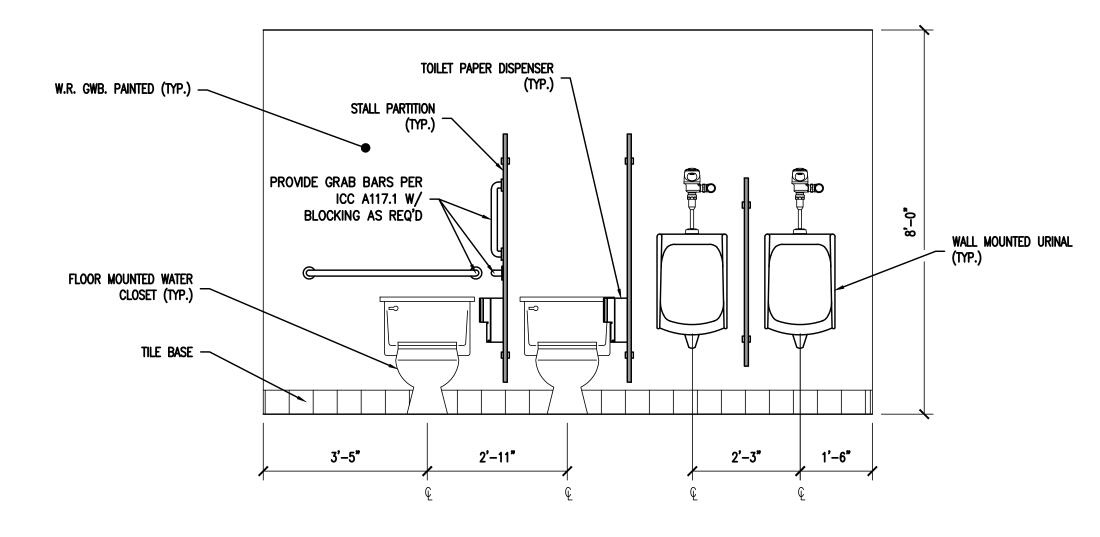
### 1 FLOOR PLAN - TOILET ROOM #120 & #120A scale: 1/2" = 1'-0"



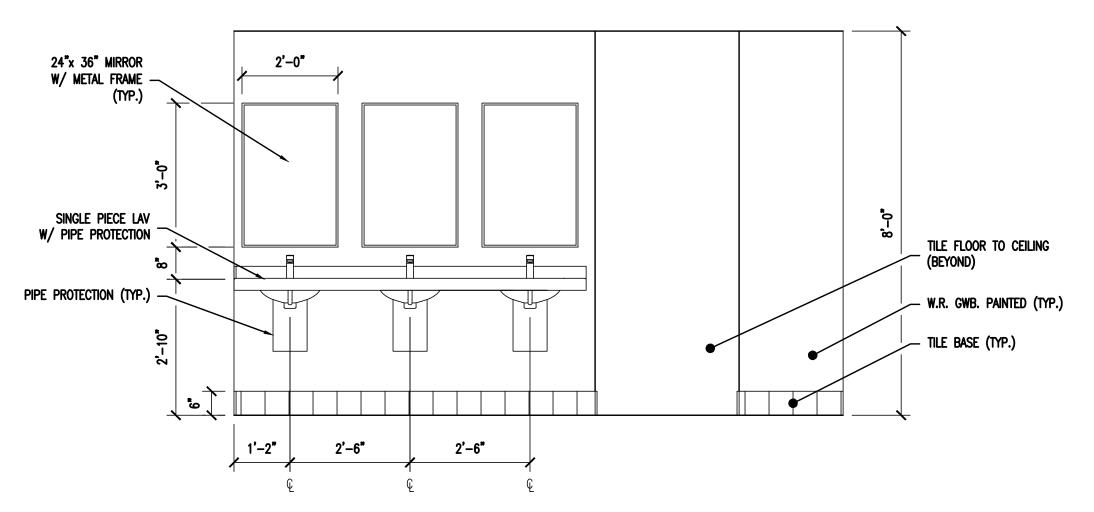
### 3 ELEVATIONS - TOILET ROOM #120 SCALE: 1/2" = 1'-0"



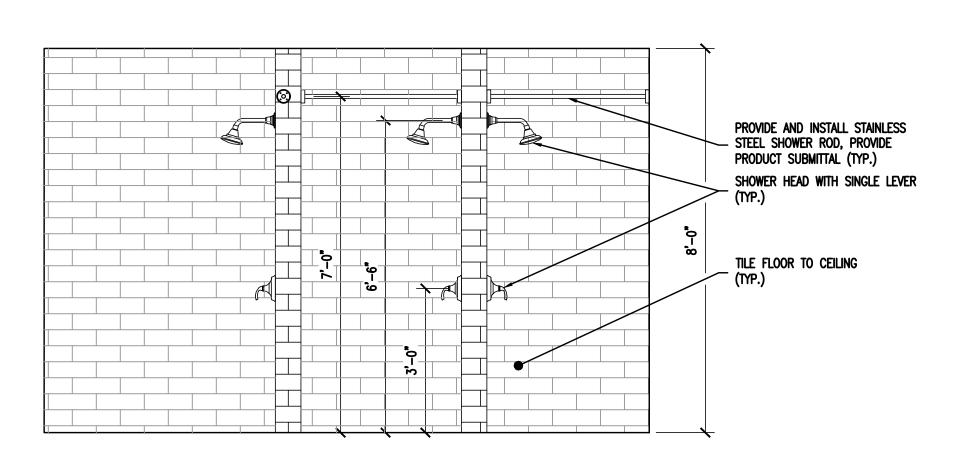
SCALE: 1/2" = 1'-0"



2 ELEVATIONS - TOILET ROOM #120 SCALE: 1/2" = 1'-0"



ELEVATIONS - TOILET ROOM #120 scale: 1/2" = 1'-0"



6 ELEVATIONS - TOILET ROOM #120 SCALE: 1/2" = 1'-0"

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**DIRK MUITS III, AIA** 

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PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. 55-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102375

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PROJECT:

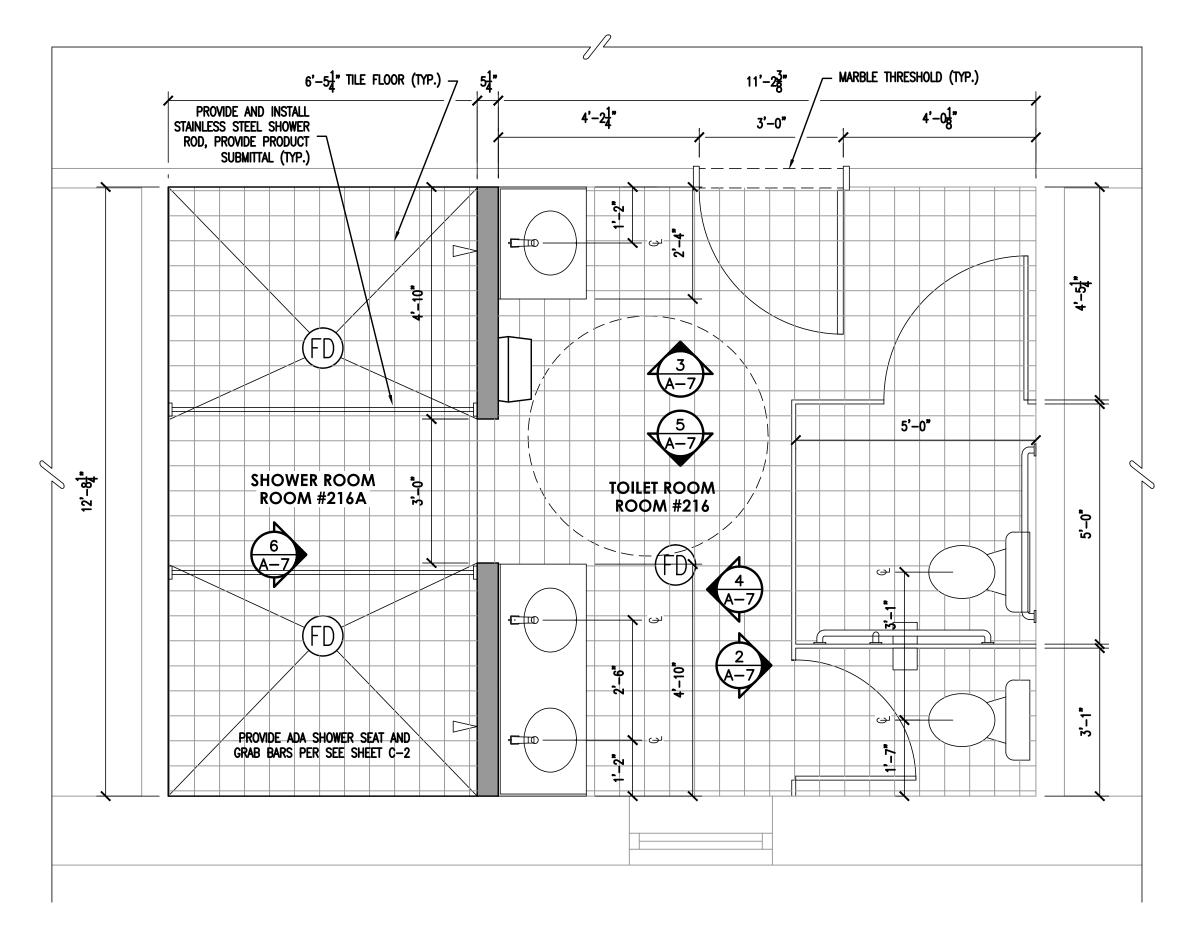
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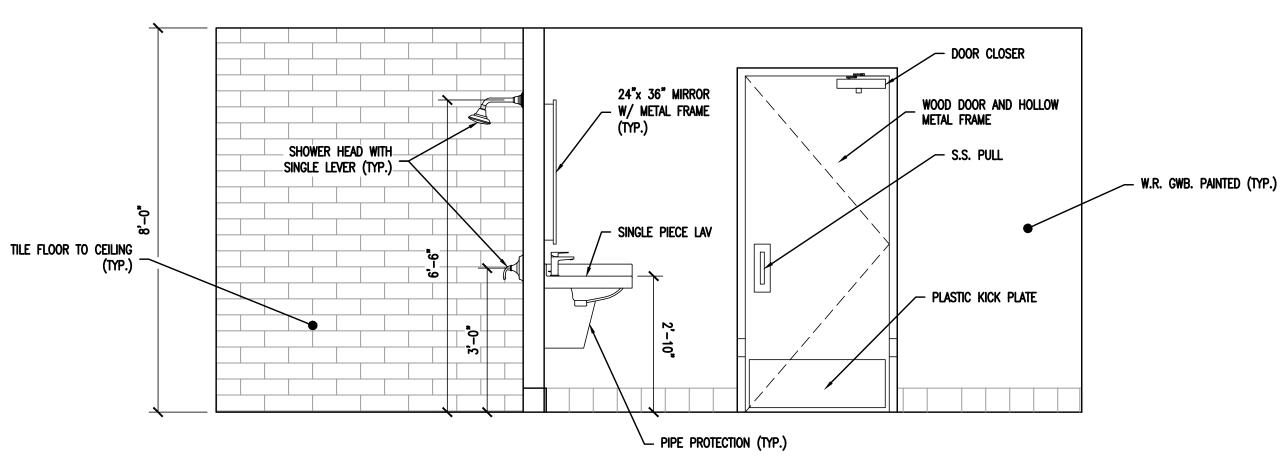
REVISIONS		
NO.	DESCRIPTION	DATE

TOILET ROOM
FLOOR PLANS
AND ELEVATIONS
ROOMS 120 & 120A

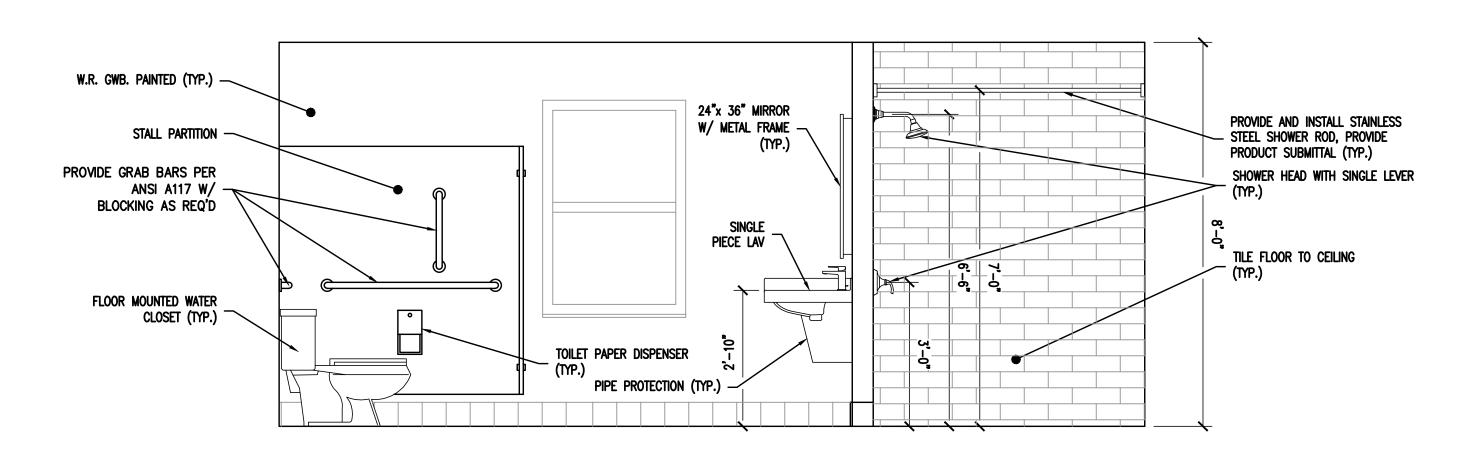
JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG
DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM
SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW
DRAWING NUMBER:	



### 1 FLOOR PLAN - TOILET ROOM #216 & #216A

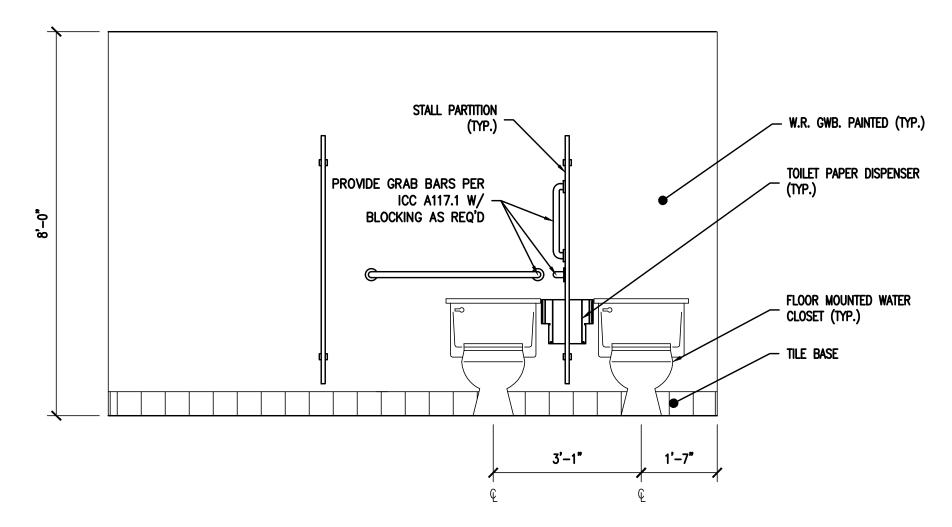


### 3 ELEVATIONS - TOILET ROOM #216 SCALE: 1/2" = 1'-0"

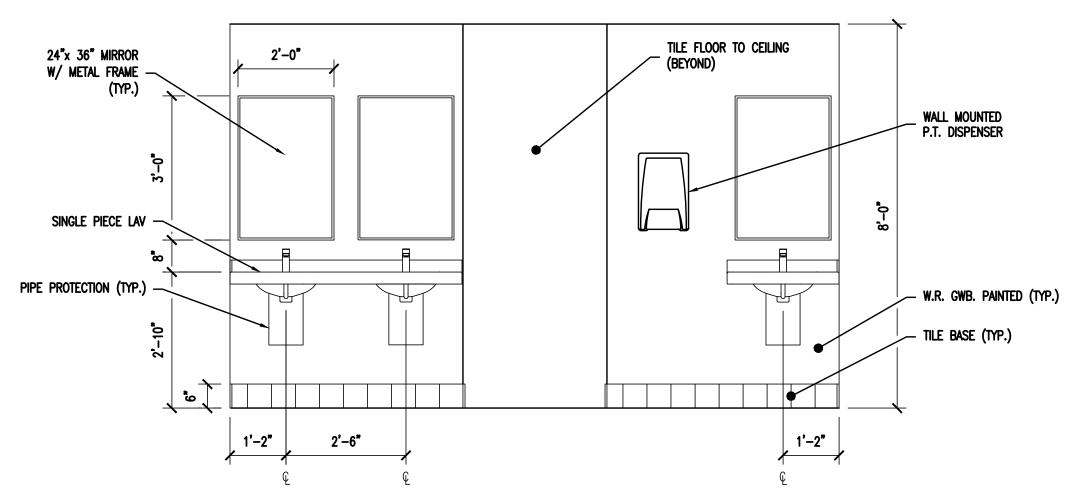


ELEVATIONS - TOILET ROOM #216

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

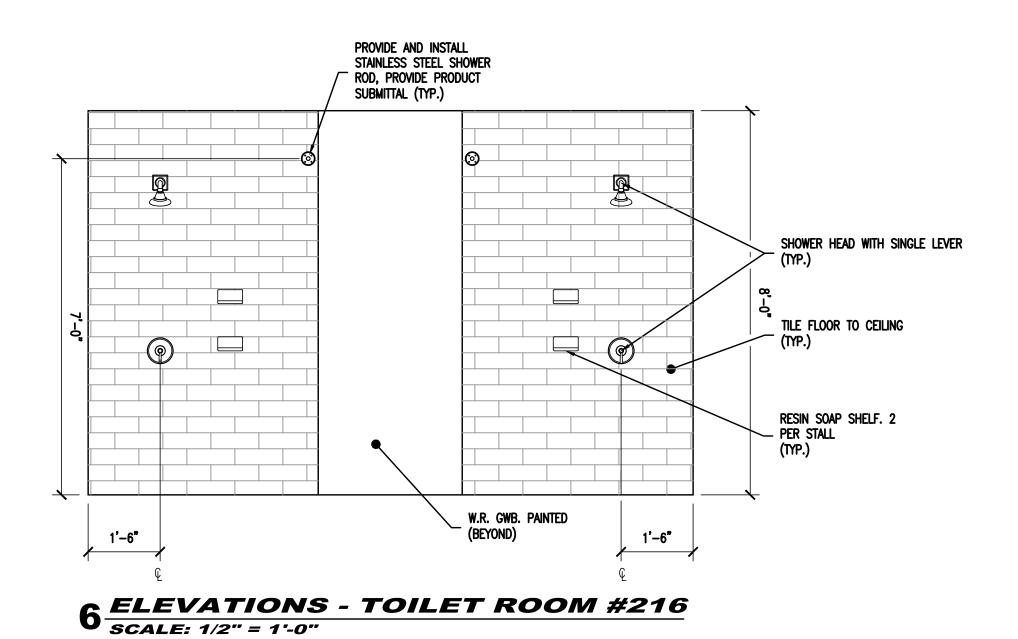


### 2 ELEVATIONS - TOILET ROOM #216 SCALE: 1/2" = 1'-0"



ELEVATIONS - TOILET ROOM #216

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



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### **DIRK MUITS III, AIA**

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CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

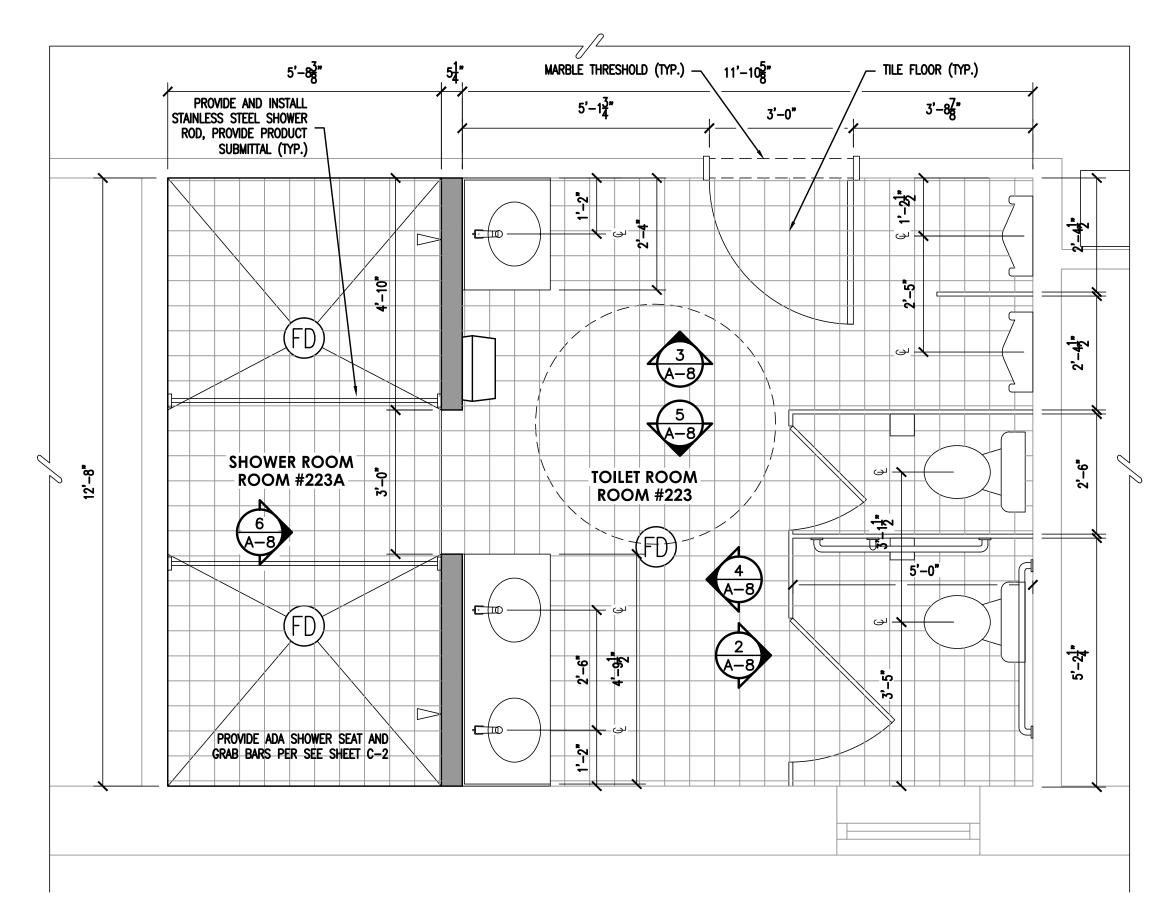
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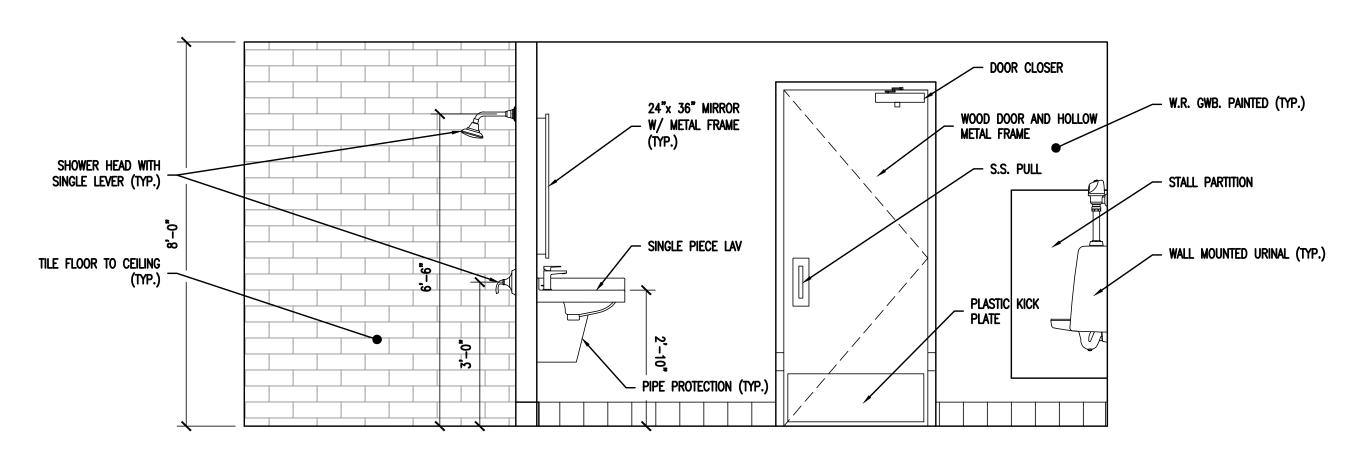
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NO.	DESCRIPTION	DATE

TOILET ROOM
FLOOR PLANS
AND ELEVATIONS
ROOMS 216 & 216A

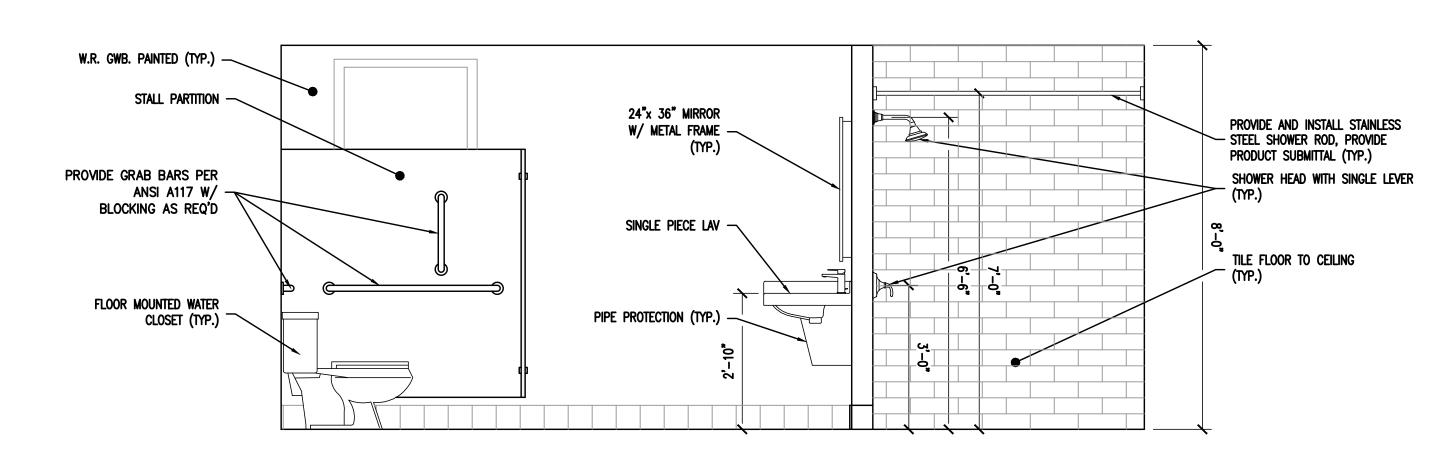
JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG
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### 1 FLOOR PLAN - TOILET ROOM #223 & #223A SCALE: 1/2" = 1'-0"

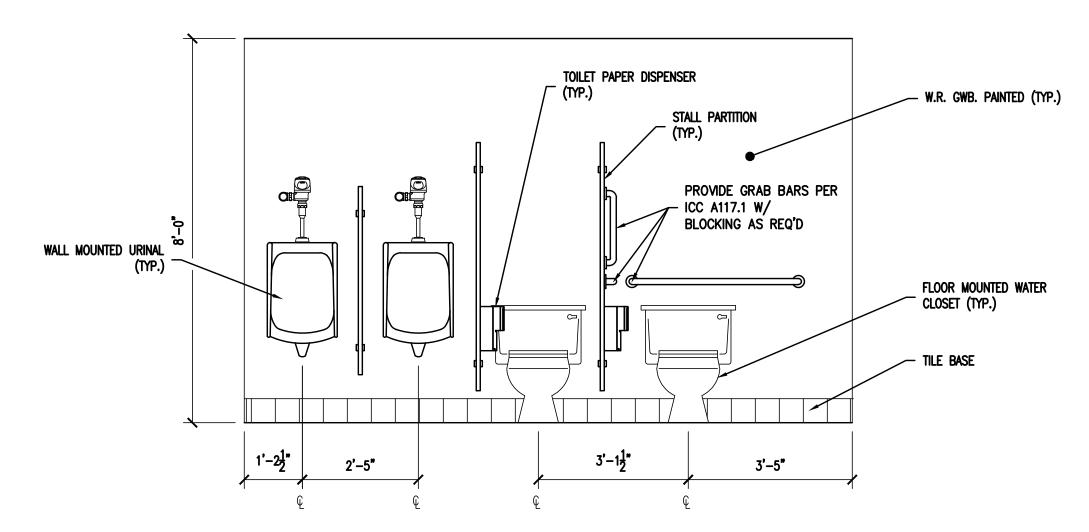


### 3 ELEVATIONS - TOILET ROOM #223 SCALE: 1/2" = 1'-0"

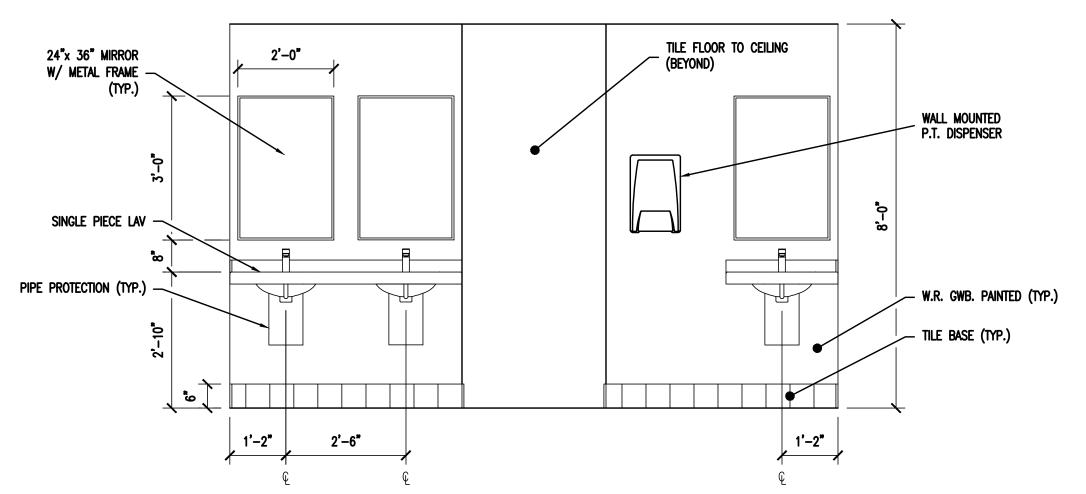


ELEVATIONS - TOILET ROOM #223

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

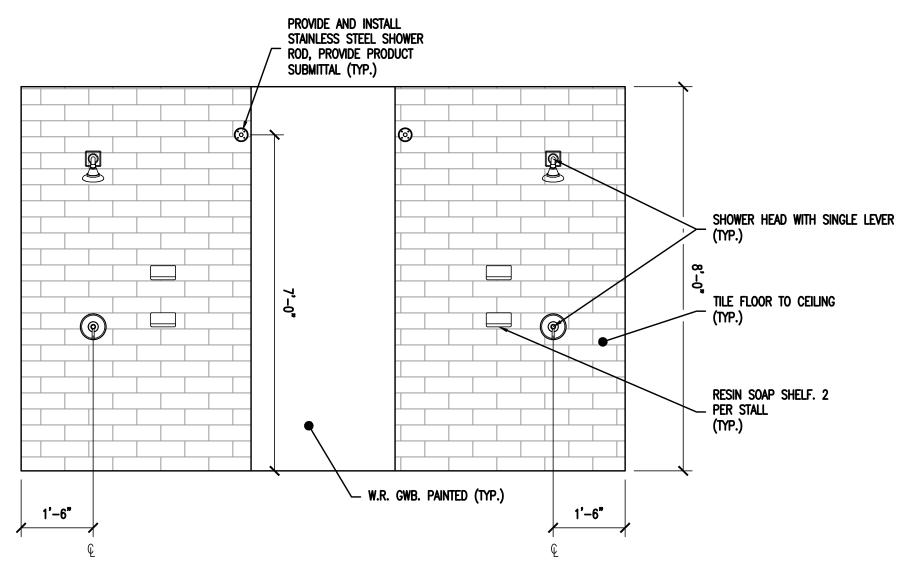


### 2 ELEVATIONS - TOILET ROOM #223 SCALE: 1/2" = 1'-0"



ELEVATIONS - TOILET ROOM #223

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



6 ELEVATIONS - TOILET ROOM #223

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PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. 55-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102379

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PROJECT:

CAMD

EN COUNTY

MODERNIZATION
BUILDING

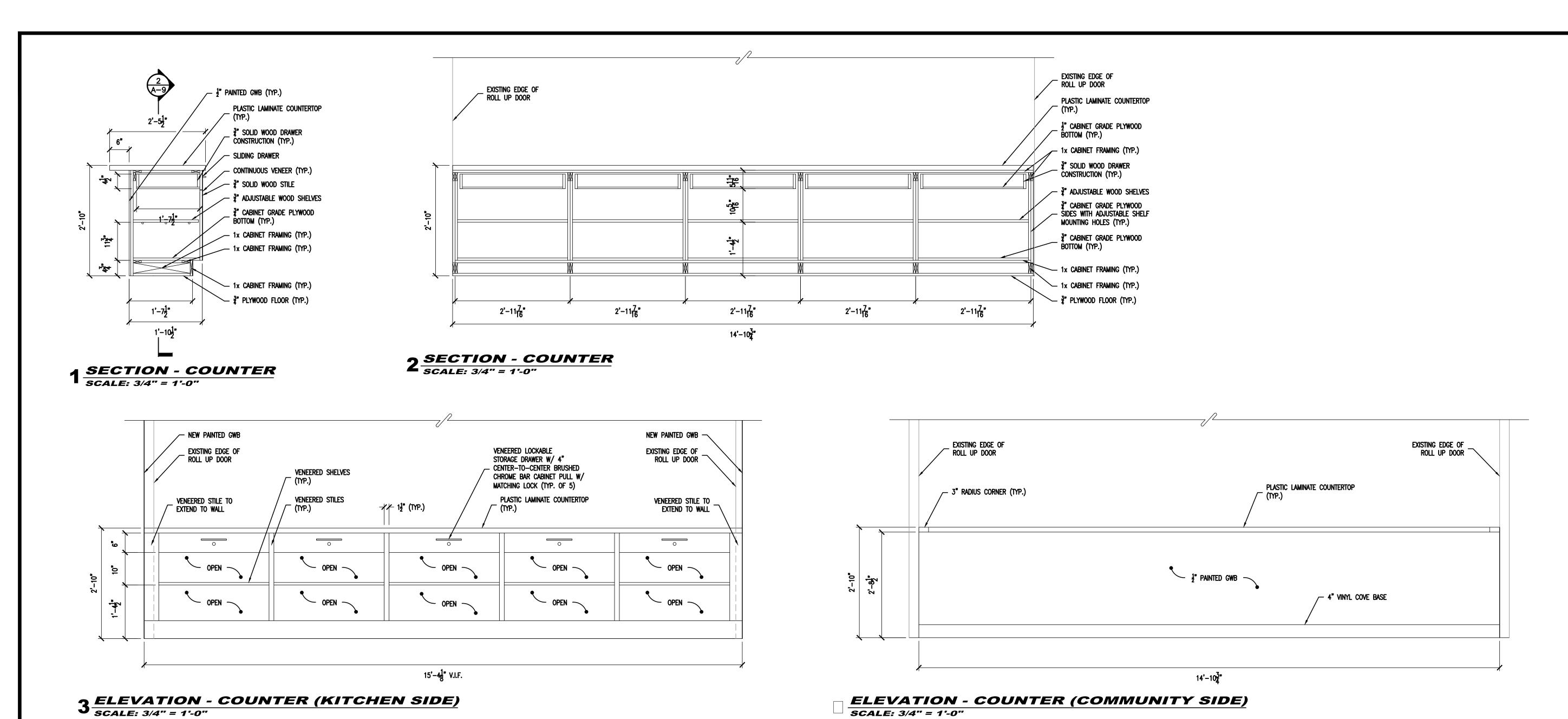
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AND EX	PENSES ARISING OUT OF OR RESULTING T	HEREFROM
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NO.	DESCRIPTION	DATE

TOILET ROOM
FLOOR PLANS
AND ELEVATIONS
ROOMS 223 & 223A

	JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG
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NY REGISTERED ARCHITECT No. 029608-1 CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068

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DC REGISTERED ARCHITECT No. ARC102373

PROJECT:

### CAMDEN COUNTY /ATION & MODERNIZATION REGAN BUILDING

508 LAKELAND ROAD BLACKWOOD, NEW JERSEY CAMDEN COUNTY, NEW JERSEY

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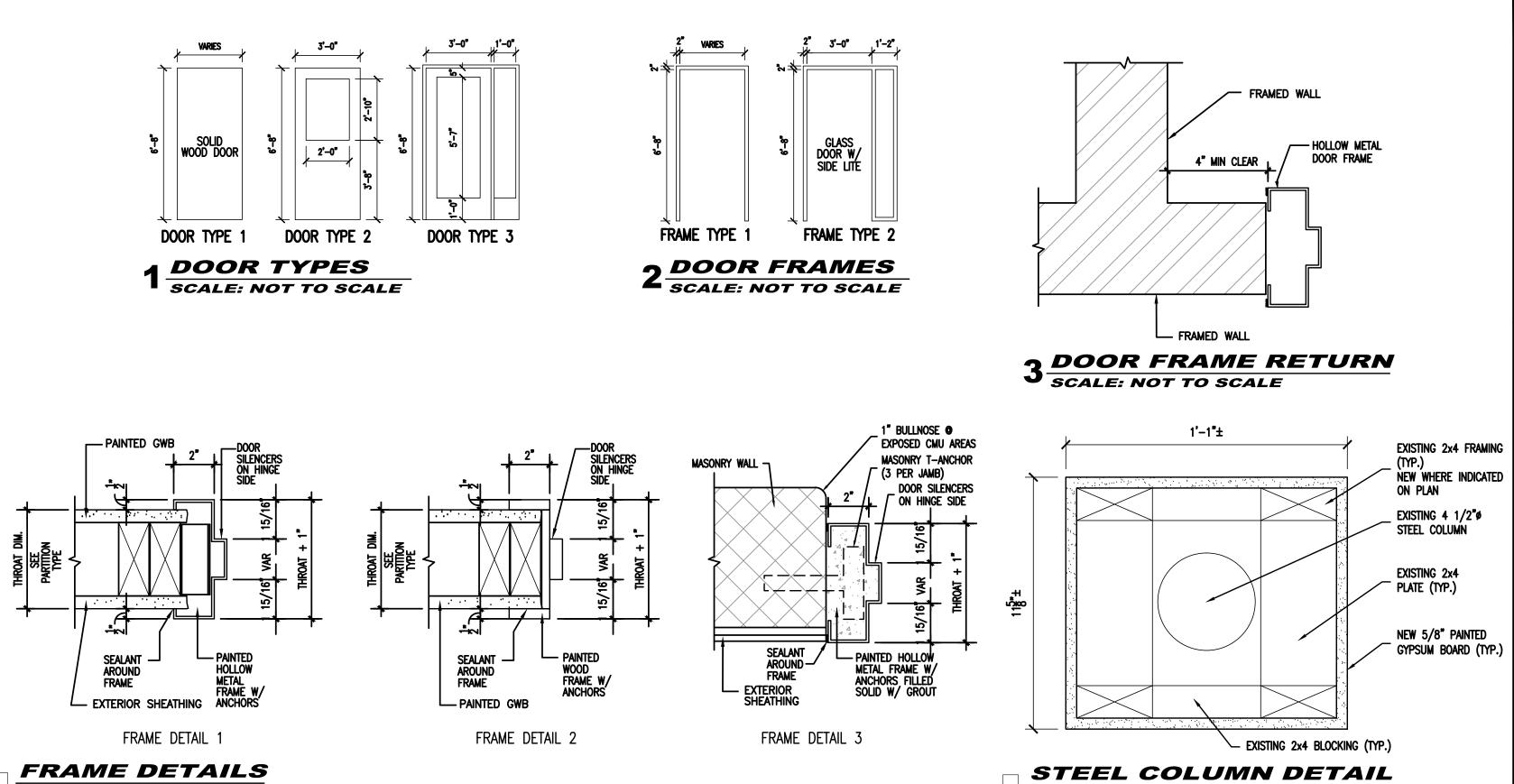
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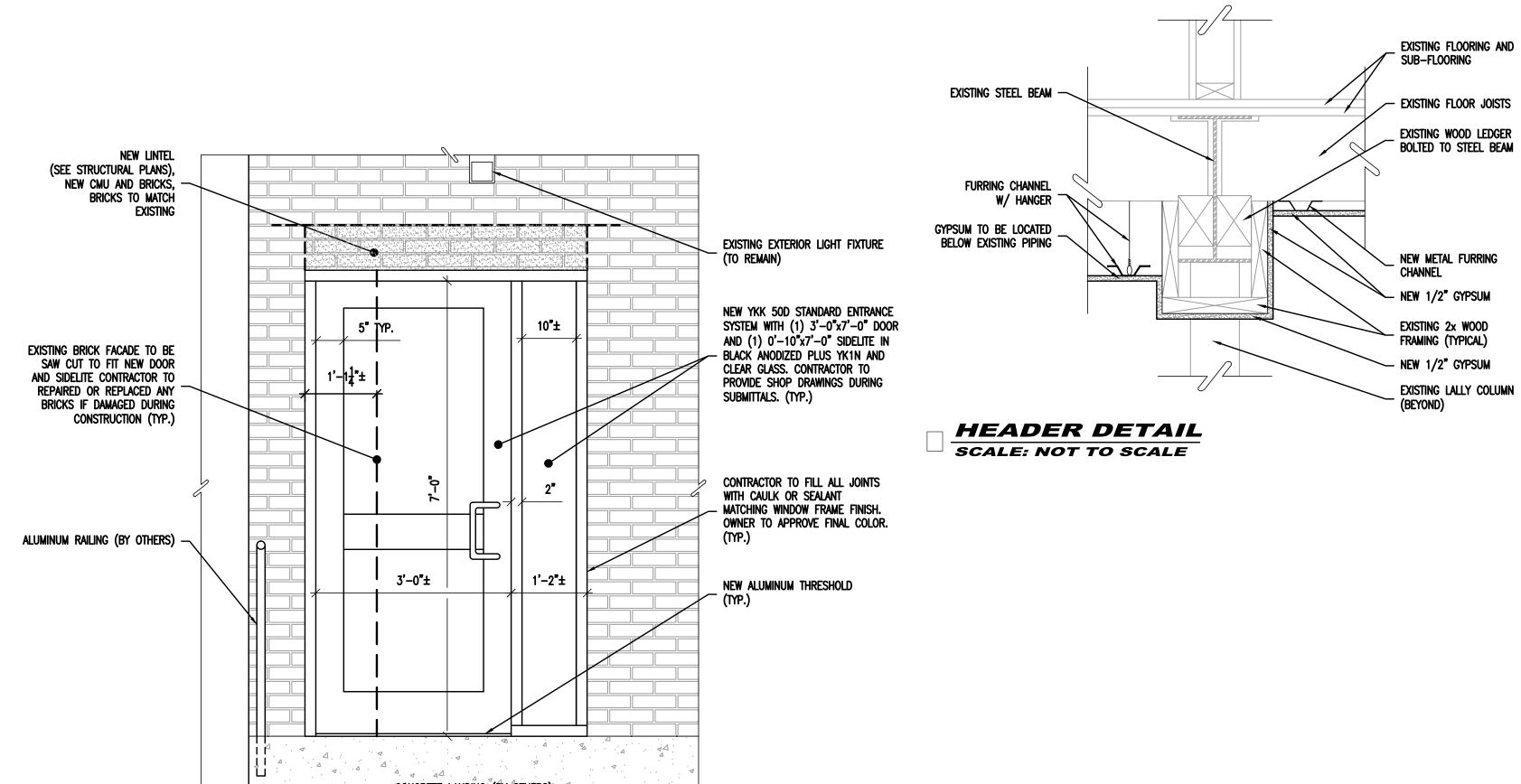
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	SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW				
	DRAWING NUMBER:					

OOR	DOOR				FRAME			EDAME HARRING	DOOD	FIRE		VARIES 3'-0" 1'-0"
	SIZE	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	FRAME HARDWARE DETAIL SET	DOOR THRESHOLD	RATING	REMARKS	
SEM	ENT											
	EXISTING TO REMAIN	_	STL	Р	-	-	PM	- 001	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	SOLID WOOD DOOR 22-0" To be a second of the
2	EXISTING TO REMAIN	-	STL	P	-	-	PM	- 002	_	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	
3 4	3'-0" x 6'-8"  EXISTING TO REMAIN	¹   _	WD STL	P	_	HM _	PM PM	1 003 - 004	-  -	<del> -</del>	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTE 6, READ NOTES IN THERE ENTIRETY	
; ;	EXISTING TO REMAIN	-	STL	P	_	-	PM	- 005	_	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	DOOR TYPE 1 DOOR TYPE 2 DOOR TYPE 3
3	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 006	_	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	1 DOOR TYPES
7	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 007		20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3 )	2'-6" x 6'-8" 4'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 008	<del>-</del>	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
)	EXISTING TO REMAIN		STL	P	_		PM	- 010		-	EXISTING STEEL OVERHEAD DOOR	
	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 011	AL	_	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
2	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 012	AL	-	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
5 1	3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 013 1 014	<del>-</del>  -	<del>-</del>	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	7
	3'-0" x 6'-8" LOOR	<u>'</u>	<b>W</b> D		'	ПМ	PM	1   014	-	<u>                                     </u>	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETT	PAINTED GWB  L 2" L SILENCERS L 2'  1 1 0N HINGE
)	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 100	_	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	TI I II CINC
	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 101	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
2	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 102	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
5 1	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD WD	P P	1	HM	PM PM	1 103 1 104	-	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
5	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 105	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
5	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 106	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
<u>'</u>	3'-0" x 6'-8"	1	WD	P	1	HM	PM PM	1 107	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	(
9	3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 108 1 109	-	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	/ AROUND HOLLOW   AROUND
)	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 110	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	FRAME W/ EXTERIOR SHEATHING ANCHORS PAINTED GWB
1	3'-0" x 7'-0"	3	AL/GLASS	FF	2	AL	FF	3 111	AL	<u> </u> -	YKK STOREFRONT ENTRANCE, NOTES 1 , 4	T TRAME DETAIL 1 FRAME DI
2	EXISTING TO REMAIN	_	STL	Р	-	-	PM	- 112	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	
<b>5</b>	3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 113 1 114	AL _	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	<b>-</b>
<u> </u>	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 115	<del>-</del>  -	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3	EXISTING TO REMAIN	-	STL	Р	-	-	PM	- 116	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	
7	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 117	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 118	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
)	3'-0" x 6'-8" 2'-6" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 119 1 120	<del>-</del>  -	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
1	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 121	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
2	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 122	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3 CON	EXISTING TO REMAIN  D FLOOR	_	STL	P	-	-	PM	- 123	-	<u> </u>	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	_
		1	WD	Р	1	НМ	PM	1 201	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	NEW LINTEL
2	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 202	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3	3'-0" x 6'-8"	1	WD	Р	1	HM	PM	1 203	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	- EXISTING
} j	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 204 1 205	<del>-</del>  -	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
<u>,                                     </u>	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 206	_	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
7	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 207	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
}	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 208	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	-
)	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 209 1 210	<del>-</del>	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	EXISTING BRICK FACADE TO BE
) 	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 211	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	AND SIDELITE CONTRACTOR TO
2	EXISTING TO REMAIN	_	STL	Р	-	-	PM	- 212	-	-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	REPAIRED OR REPLACED ANY BRICKS IF DAMAGED DURING
	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 213	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	-
<u>,</u>	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 214 1 215	AL	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	-
) 3	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 216	AL _	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	-
,	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 217	_	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
3	2'-6" x 6'-8"	1	WD	P	1	НМ	PM	1 218	-	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	-  ALUMINUM RAILING (BY OTHERS)
)	3'-0" x 6'-8"	1	WD	Р	1	HM	PM PM	1 219	-	20 MIN 20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
)	3'-0" x 6'-8" 3'-0" x 6'-8"	1	WD WD	P	1	HM	PM PM	1 220 1 221	AL	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY  SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	<b>⊣</b>
2	3'-0" x 6'-8"	1	WD	P	1	HM	PM	1 222	<u> </u> -	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
	3'-0" x 6'-8"	1	WD	Р	1	НМ	PM	1 223	Ţ <b>-</b>	20 MIN	SEE NOTES 6 & 7, READ NOTES IN THERE ENTIRETY	
	EXISTING TO REMAIN	-	STL	Р	-	-	PM	- 224		-	SEE NOTE 6, READ NOTES IN THERE ENTIRETY	
	ALUMINUM ) WOOD C MATCH EXISTING	PM EX	CLEAR ANODIZ PAINTED META EXISTING	<b>AL</b>	RES RESCUE CL CLASSRO PAS PASSAGE	DOM LOCKET E LATCH	STL STE	ACY LOCKET FF	R: MARBLE FACTORY FI ALL FIBERG	ELASS	RUB: RUBBER PC: POWDER COAT FG: ALL FIBERGLASS	
PC TES:	OLY STAINED	НМ	HOLLOW MET	AL :	SI STORE F	ROOM LOCKET	P PAIN	II FR	P: Fiber Rein	FURCED PLAS	STIC FRP: FIBER REINFORCED PLASTIC	
ALL GL WHERE	AZING FOR DOOR AND N	TO BE	APPLIED TO E	OTH DOOR	AND FRAME CO	ONSTRUCTION - /	ALL DOORS.					CONCRETE LANDING (BY OTHERS)
GENER KEYLES	AL CONTRACTOR TO SUB SS ENTRY SYSTEM INCLU	BMIT ALL IDES HAR	DOOR FRAME DWIRED ELECT	& HARDWAF RIC STRIKE	re for Archit And Required	ECT REVIEW AND  POWER SUPPLY	APPROVAL WITH COMPAT	IBLE EXIT DEVICE, HA	RDWIRED CARD I	READER (COU	NTY KERI SYSTEM) WITH REQUIRED	
POWER COMPL	R SUPPLY TO ACTIVATE S LETE OPERATION OF LOC	Strike, P K.	ANIC EXIT HAF	RDWARE, EN	TRY HARDWARE	, CYLINDER FOR	MANUAL RETRA	ACTION OF LATCH, AL	REQUIRED POW	/ER AND LOW	VOLTAGE WIRING TO ALLOW FOR	
	OOR SPECIFICATION FOR		ARDWARE - A	LL DOORS								6 MAIN ENTRANCE DOOR - ELEVATI







BACH Associates, PC ENGINEERS • ARCHITECTS • PLANNERS

304 White Horse Pike

Haddon Heights, New Jersey 08035 Tel: 856-546-8611 Fax: 856-546-8612

www.BachDesignGroup.com

### DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840 PA REGISTERED ARCHITECT No. 402435 DE REGISTERED ARCHITECT No. S5-000752 NY REGISTERED ARCHITECT No. 029608-CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068 DC REGISTERED ARCHITECT No. ARC10237

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012 CAMDEN COUNTY, NEW JERSEY MODERNIZA BUILDING COUNTY CAMD ATION

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DESCRIPTION

### DOOR SCHEDULE **AND DETAILS**

	JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG			
	DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM			
	SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW			
	DRAWING NUMBER:				

**A-10** 

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SCALE: NOT TO SCALE

OOM #:	ROOM NAME:	FLOOR:	BASE:	WALLS:	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT:	REMARKS:
ASEM	<u> </u> ENT	PLOOK:	BASE:	NORTH	EASI	S00 IH	WEST		<u> </u>	
01	COMMUNITY / DINING SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
002	BOILER ROOM	EXISTING	_	PAINT	PAINT	PAINT	PAINT	PAINT	EXISTING	SEE NOTES
003	STORAGE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
004	ELEVATOR MACHINE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTES
005	OPEN SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
006	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
007	STORAGE ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
008 009	PROGRAM SPACE LAUNDRY ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
010	JANITORS CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0" 8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
) ) ) )	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	VARIES	SEE NOTE 6, READ NOTES IN THERE ENTIRETY SEE NOTE 6, READ NOTES IN THERE ENTIRETY
012	KITCHEN	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
013	TOILET ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
014	TOILET ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	7'-6"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
015	HVAC CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8-'0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
016	HVAC CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8-'0"	SEE NOTE 6, READ NOTES IN THERE ENTIRETY
IRST F	LOOR	·			·	·	·			
00	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
01	PROGRAM SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
102	PROGRAM OPERATIONS SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
103	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
04	SERVER ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
105	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
106	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
07	BEDROOM BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0" 8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
109	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
1109	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
111	LOBBY / SECURITY CHECK IN	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY SEE NOTE 7, READ NOTES IN THERE ENTIRETY
112	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
13	TOILET ROOM	PT/GWB	PT/GWB	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
13A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
14	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
115	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
116	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
117	ADMINISTRATIVE SPACE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
118	BATH ROOM	PT	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
119	JANITORS CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
120	TOILET ROOM	PT/GWB	PT/GWB	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
120A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
121	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-0"	SEE NOTE 7, READ NOTES IN THERE ENTIRETY
SECON	D FLOOR			1	1			_	_	
200	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
201	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
202	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
203	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
204	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
205	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
206	UTILITY ROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6" 8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
207 208	STORAGE ROOM BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
208 209	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
209 210	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY SEE NOTE 8, READ NOTES IN THERE ENTIRETY
211	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
212	ELEVATOR VESTIBULE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
213	CORRIDOR	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
214	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
215	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
216	TOILET ROOM	PT/GWB	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
216A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
217	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
218	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
219	STAIRWELL	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
220	CLOSET	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
221	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
222	ADMINISTRATIVE OFFICE	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
223	TOILET ROOM	PT/GWB	PT	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
223A	SHOWER ROOM	PT	PT	PT	PT	PT	PT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
224	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
25	BEDROOM	LVT	COVE	PAINT	PAINT	PAINT	PAINT	PAINT	8'-6"	SEE NOTE 8, READ NOTES IN THERE ENTIRETY
LEGEND:		DUSTICAL CEILING T		Γ CARPET TILE		VINYL COVE BASE	_			

8. EXISTING GYPSUM ON WALLS AND CEILINGS.

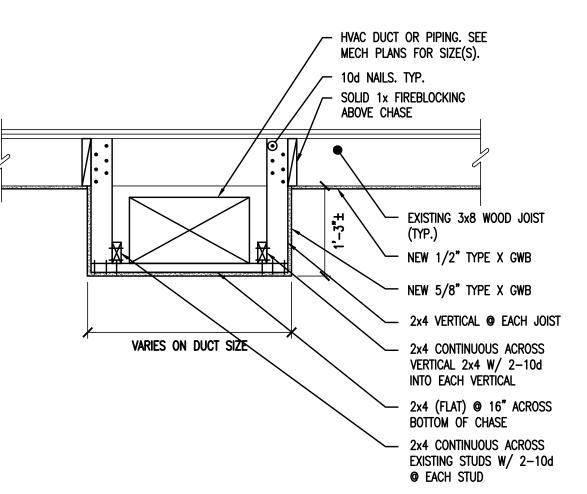
ALL ROOMS WITH LVT, VCT AND COVE BASE - NOT IN CONTRACT)

1 LOCK SCALE:

SECTION - HVAC SOFFIT

2 @ EXTERIOR WALL

SCALE: NOT TO SCALE



SECTION - HVAC SOFFIT

@ INTERIOR CEILING

SCALE: NOT TO SCALE

6'-0" XXXX XXX XXXX XXXX LYON SIX TIER 12"x12"x12" INDIVIDUAL LOCKERS, MODEL #53323, - WITH NUMBER PLATES MODEL #5829, COLOR DETERMINED BY OWNER, CONTRACTOR TO ANCHOR LOCKERS TO WALL XXXX LYON FRONT AND SIDE CLOSED BASES

- VAC DUCT. SEE MECH

- SOLID 1x FIREBLOCKING

VARIES ON DUCT SIZE 2x4 VERTICAL @ EACH JOIST

2x4 CONTINUOUS ACROSS

VERTICAL 2x4 W/ 2-10d

2x4 (FLAT) @ 16" ACROSS

2x4 CONTINUOUS ACROSS

EXISTING STUDS W/ 2-10d

@ EACH STUD (TYPICAL)

EXTERIOR WALL. EXISTING

OR NEW GWB ON WOOD

STUD. 2x6 @ 16" W/ \{\}"
TYPE X GWB IF NEW.

INTO EACH VERTICAL

BOTTOM OF CHASE

PLANS FOR SIZE.

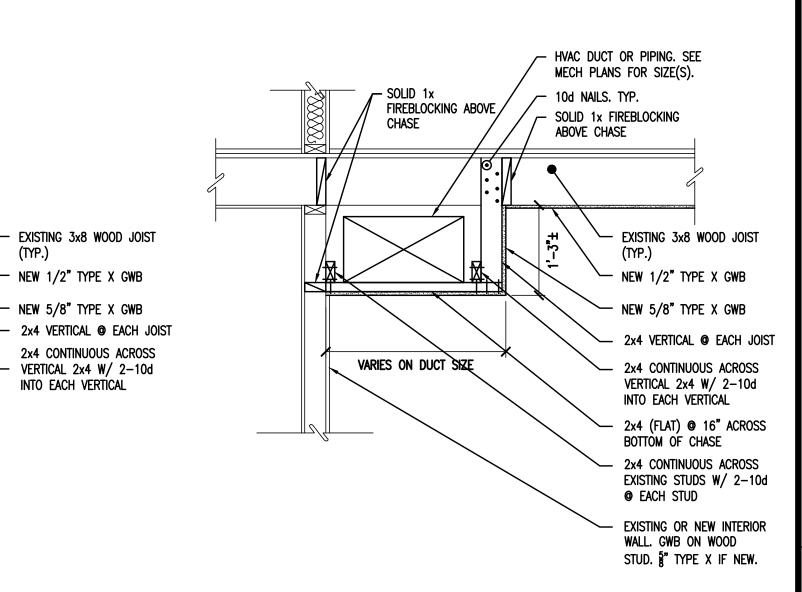
ABOVE CHASE

← 6−10d NAILS

1 LOCKER ELEVATION SCALE: NOT TO SCALE

\_ SOLID 1x

FIREBLOCKING BEHIND /



SECTION - HVAC SOFFIT

3 @ INTERIOR PARTITION

SCALE: NOT TO SCALE



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DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840
PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DC REGISTERED ARCHITECT No. ARC102373

DJECT:

CAMDEN COUNTY
RENOVATION & MODERNIZATION
REGAN BUILDING

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NO. DESCRIPTION DATE

### ROOM SCHEDULE AND DETAILS

JOB NO:
CCIA2020-02

DATE:
OCTOBER 19, 2020

SCALE:
AS NOTED

DESIGNED BY:
DM3/AAW/RH/BMG

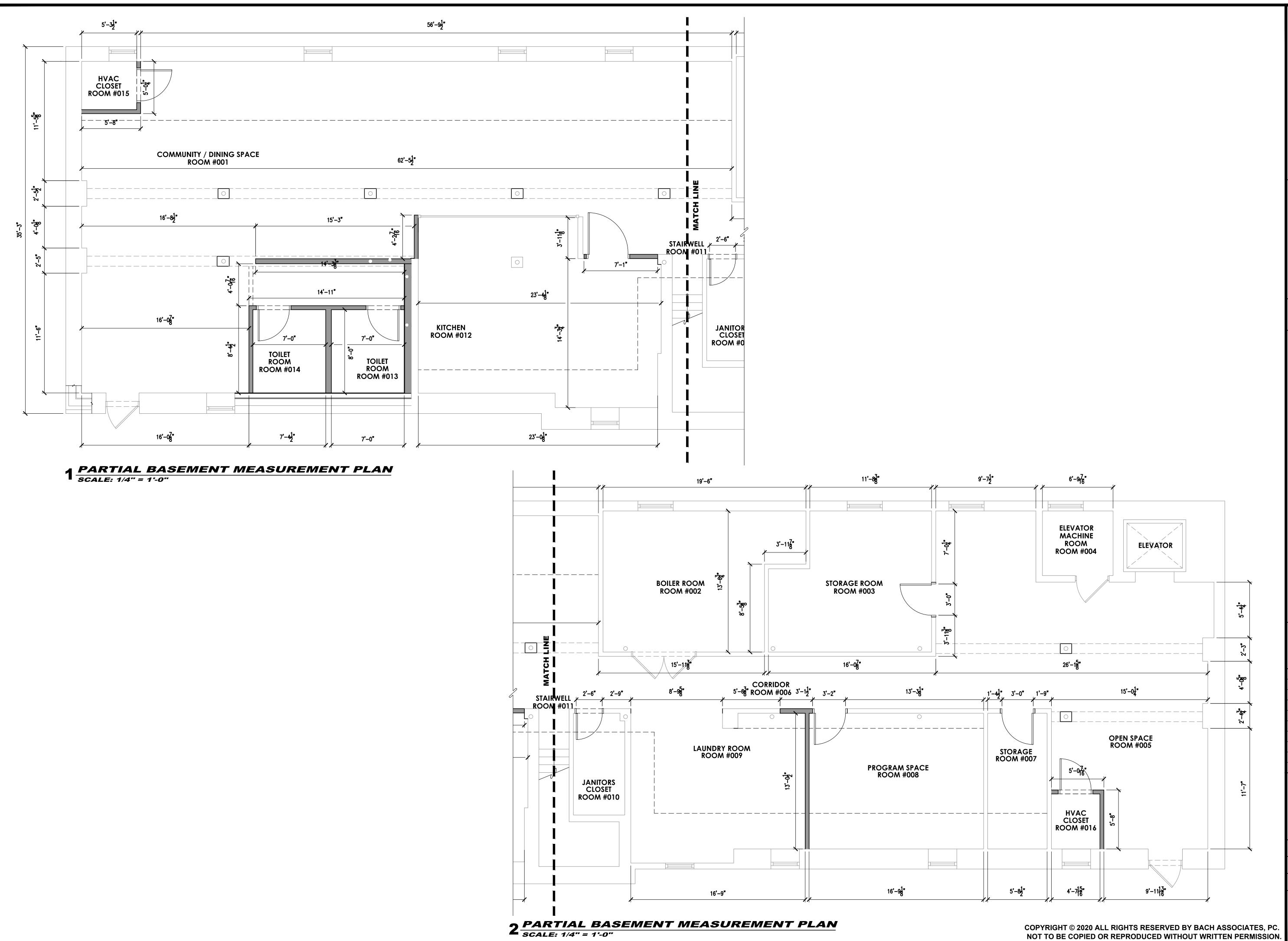
DRAWN BY:
DM3/AAW/AM

CHECKED BY:
SMB/DM3/AAW

DRAWING NUMBER:

**A-11** 

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### DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840 PA REGISTERED ARCHITECT No. 402435 DE REGISTERED ARCHITECT No. S5-0007528 NY REGISTERED ARCHITECT No. 029608-CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068 DC REGISTERED ARCHITECT No. ARC10237

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

### MODERNIZA BUILDING COUNTY

∞ <del>Z</del>

CAMD

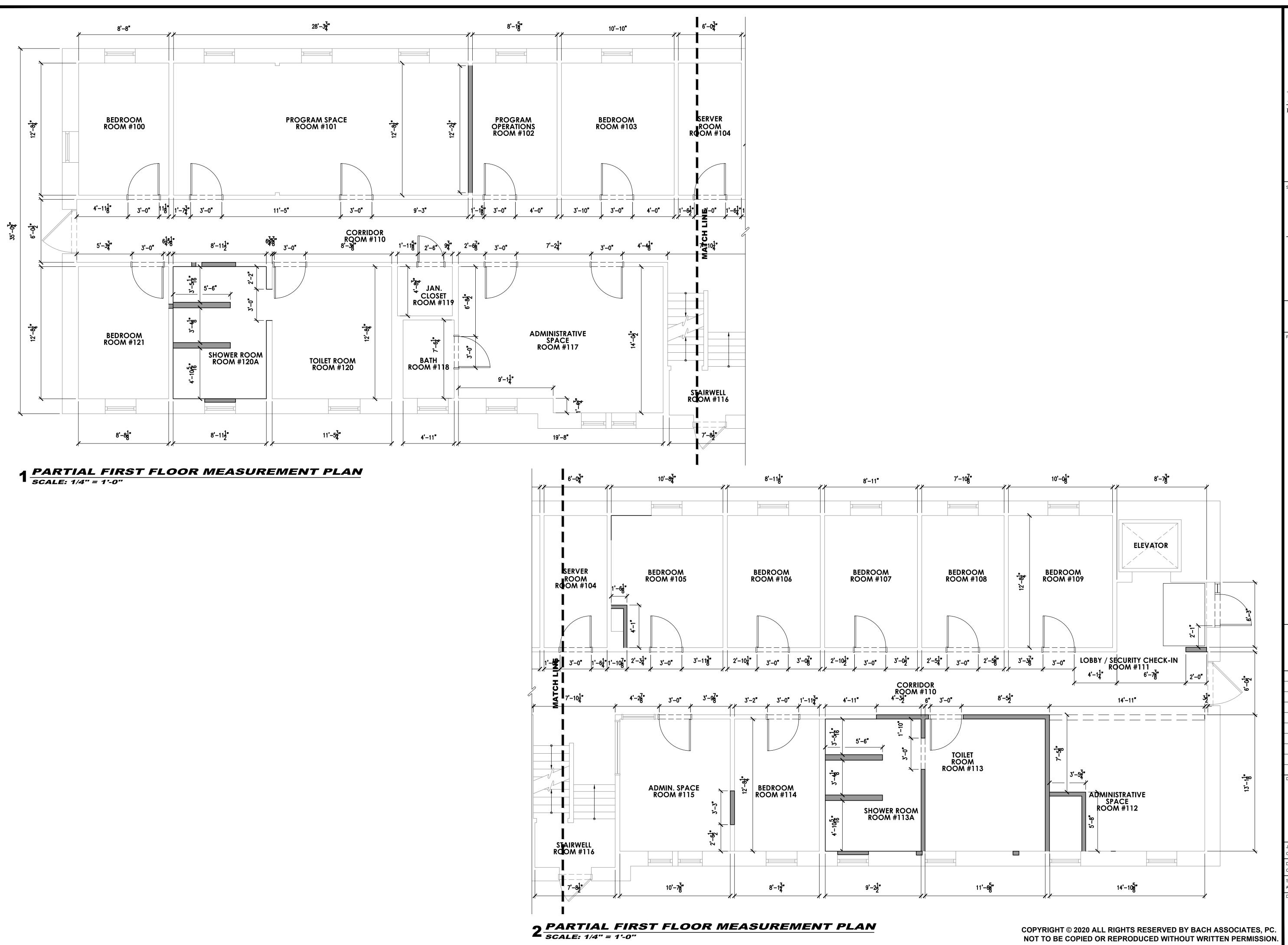
508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012 CAMDEN COUNTY, NEW JERSEY 'ATION &

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	REVISIONS				
NO.	DESCRIPTION	DATE			

BASEMENT DIMENSIONS **PLAN** 

	JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG			
	DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM			
	SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW			
	DRAWING NUMBER:				



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### DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840
PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC10237

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PROJECT:

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### COUNTY

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508 LAKELAND ROAD
BLACKWOOD, NEW JERSEY 08012
CAMDEN COUNTY, NEW JERSEY

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NO. DESCRIPTION DATE

### FIRST FLOOR DIMENSIONS PLAN

JOB NO:	DESIGNED BY:
CCIA2020-02	DM3/AAW/RH/BMG
DATE:	DRAWN BY:
OCTOBER 19, 2020	DM3/AAW/AM
SCALE:	CHECKED BY:
AS NOTED	SMB/DM3/AAW
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DESCRIPTION

### **SECOND FLOOR DIMENSIONS PLAN**

JOB NO: CCIA2020-02	DESIGNED BY: DM3/AAW/RH/BMG			
DATE: OCTOBER 19, 2020	DRAWN BY: DM3/AAW/AM			
SCALE: AS NOTED	CHECKED BY: SMB/DM3/AAW			
DRAWING NUMBER:				

### GENERAL

- 1. STRUCTURAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. FOR INCONSISTENCIES BETWEEN STRUCTURAL DRAWINGS, THE SPECIFICATIONS, AND ANY CODE OF STANDARD PRACTICE, THE STRICTER REQUIREMENT SHALL APPLY, AND THE ENGINEER SHALL BE NOTIFIED PRIOR TO PROCEEDING WITH THE
- AFFECTED PORTION OF THE WORK. 2. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED WITH OTHER CONSTRUCTION DOCUMENTS, INCLUDING ARCHITECTURAL, M/E/P, AND SITE DOCUMENTS. COORDINATE WITH THESE DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF OPENINGS, CHASES, INSERTS, REGLETS, SLEEVES, DEPRESSIONS, ETC., NOT INDICATED ON THE STRUCTURAL DOCUMENTS. ALL DIMENSIONS AND CONDITIONS, EXISTING AND NEW, SHALL BE FIELD VERIFIED. THE ENGINEER SHALL BE NOTIFIED OF DISCREPANCIES PRIOR TO PROCEEDING WITH THE AFFECTED PORTION OF THE WORK.
- 3. THE STRUCTURE IS DESIGNED TO BE SELF SUPPORTING AFTER THE BUILDING IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE STABILITY AND SAFETY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF SHEETING, SHORING, TEMPORARY BRACING, GUYS, AND TIEDOWNS. THE CONTRACTOR SHALL PROVIDE SHORING AND BRACING NECESSARY TO PROTECT EXISTING AND ADJACENT STRUCTURES.
- 4. SECTIONS AND DETAILS SHOWN ON ANY STRUCTURAL DOCUMENTS SHALL BE CONSIDERED TYPICAL FOR SIMILAR CONDITIONS THAT DO NOT HAVE A SPECIFIC SECTION INDICATED, AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- 5. APPLICABLE FEDERAL, STATE AND MUNICIPAL REGULATIONS SHALL BE FOLLOWED, INCLUDING THE FEDERAL DEPARTMENT OF LABOR OSHA.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED ON THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE SPECIFIED DESIGN LIVE LOADS. CONCRETE SLABS AND TOPPINGS SHALL NOT BE LOADED UNTIL THE CONCRETE HAS REACHED AT LEAST 15% OF THE SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- 7. IN THE ABSENCE OF SPECIFIC INSTRUCTIONS TO THE CONTRARY IN THE CONTRACT DOCUMENTS, THE TRADE PRACTICES THAT ARE DEFINED IN ANY CODE OF STANDARD PRACTICE SHALL GOVERN.

### STRUCTURAL DESIGN CRITERIA

- DESIGN LOADS ARE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE/2015, NEW JERSEY EDITION.
- BUILDING OCCUPANCY CATEGORY 2. LIVE LOADS ARE AS FOLLOWS. LIVE LOAD REDUCTIONS HAVE BEEN TAKEN WHERE APPLICABLE, UNO.

/	
ROOF LIVE LOAD	30 PSF
STAIRS	100 PSF
CORRIDORS	80 PSF
STAIRS	100 PSF
BEDROOMS	40 PSF
CAT WALK	60 PSF

CONCRETE SHALL BE NORMAL WEIGHT HAVING A MINIMUM 28 DAY DESIGN COMPRESSIVE STRENGTH AS FOLLOWS:

SLAB-ON-GRADE (INTERIOR) 3500 PSI SLUMP 3" +/- 1"

### CONCRETE MASONRY

- 1. CONCRETE MASONRY CONSTRUCTION SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES", ACI 530-05, AND "SPECIFICATIONS FOR MASONRY STRUCTURES", ACI 530.1-05.
- 2. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY, F'M, SHALL BE 1500 PSI. (MIN NET AREA COMPRESSIVE STRENGTH OF UNIT = 1900 PSI.)
- CONCRETE MASONRY SHALL CONFORM TO ASTM C90. 4. CONCRETE MASONRY REINFORCING SHALL BE DEFORMED BARS CONFORMING TO
- ASTM A615, 6RADE 60. 5. GROUT SHALL CONFORM TO ASTM C476, AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. PROVIDE FINE AND COARSE GROUTS APPROPRIATE FOR SIZE OF VOID BEING FILLED. GROUT SHALL HAVE A MINIMUM

SLUMP OF 8 INCHES PROVIDED BY SUFFICIENT WATER CONTENT. WATER-

- REDUCING ADMIXTURES ARE NOT PERMITTED. 6. MORTAR SHALL CONFORM TO ASTM C270, TYPE M OR S, PCL OR MORTAR CEMENT
- MASONRY CEMENT NOT PERMITTED. 7. REINFORCED VOIDS, AND NON-REINFORCED VOIDS SPECIFIED TO BE GROUTED, IN CONCRETE MASONRY SHALL BE FILLED SOLID WITH GROUT IN 5 FT. MAXIMUM LIFTS. STOP POURS 1-1/2 INCHES BELOW THE BED JOINT TO FORM A KEY AT POUR
- JOINTS. 8. REINFORCING BARS SHALL BE TIED TO DOWELS AND HELD IN THE PROPER POSITION
- BY MECHANICAL TIES DESIGNED FOR THAT PURPOSE. 9. REINFORCING SHALL NOT BE PLUNGED INTO WET GROUT.
- 10. LAP DEFORMED BARS 48 DIA., UNO.
- 11. CONCRETE MASONRY SHALL BE LAID IN RUNNING BOND, UNO. BE BONDED, UNO.
- 12. PROVIDE HORIZONTAL LADDER-TYPE WALL REINFORCEMENT, HOT-DIP GALVANIZED OR STAINLESS STEEL, WITH 9 6A. SIDE RODS AND 9 6A. CROSS RODS AS FOLLOWS: 16 IN C/C MAX, UNO.
- 13. ALL CMU WALLS SHALL HAVE #4048 VERTICAL AND DOWELED TO SLABS WITH MINIMUM #4 @ 48 AND 4" EMBEDMENT
- 14. THE TOPS OF ALL NON-LOAD BEARING CMU WALLS SHALL BE BRACED ACCORDING TO SPECIFIC SECTIONS.

- STRUCTURAL LUMBER SHALL CONFORM TO ANSI/ANC NDS-18, "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", WITH 2018 SUPPLEMENT "DESIGN
- VALUES FOR WOOD CONSTRUCTION". 2. STRUCTURAL LUMBER SHALL BE NO. 2 HEM FIR, VISUALLY GRADED, OR BETTER.
- 3. HEADERS AT NON LOAD BEARING CONDITIONS SHALL BE AS FOLLOW: 2X4 WALLS:

OPENINGS UP TO 4'-0"	(2) 2X8 + 1/2" PLYWOOD
OPENINGS > 4'-0" TO 6'-0"	(2) 2×10 + 1/2" PLYWOOD
<i>OPE</i> NIN65 > 6'-0" TO 9'-0"	(2) 2×12 + 1/2" PLYWOOD
2X6 WALLS	
OPENINGS UP TO 4'-0"	(3) 2X8 + 1/2" PLYWOOD (2 LAYERS)
OPENINGS > 4'-0" TO 6'-0"	(3) 2x10 + 1/2" PLYWOOD (2 LAYERS)
OPENINGS > 6'-0" TO 9'-0"	(3) 2x12 + 1/2" PLYWOOD (2 LAYERS)

4. PRESSURE PRESERVATIVE TREATED LUMBER SHALL BE USED IN THE BASEMENT AREA.

### STRUCTURAL STEEL

- 1. STRUCTURAL STEEL FABRICATION, ERECTION AND CONNECTION DESIGN SHALL CONFORM TO AISC'S "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS,
- 2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING DESIGNATIONS: STRUCTURAL STEEL WE SHAPES ASTM A992 OTHER STRUCTURAL STEEL SHAPES ASTM A36, UNO STEEL BARS, ANGLES AND PLATES ASTM A36, UNO STIFF PLATES IN MOMENT CONNECTIONS ASTM A572, GRADE 50 ROUND PIPE ASTM A53, TYPE E OR S
- 3. BOLTS SHALL BE MINIMUM 3/4 IN. DIA. AND SHALL CONFORM TO THE FOLLOWING DESIGNATIONS, UNO: HIGH STRENGTH BOLTS ASTM A325 [ A490]
- 4. BOLTED CONNECTIONS SHALL CONFORM TO RCSC'S "SPECIFICATIONS FOR
- STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." WELDING, WELDING ELECTRODES, AND FLUXES SHALL CONFORM TO AWS D1.1-11 "STRUCTURAL WELDING CODE - STEEL". ELECTRODES SHALL HAVE A MINIMUM TENSILE STRENGTH OF 70 KSI.
- 6. HIGH STRENGTH BOLTED CONNECTIONS SHALL BE TIGHTENED TO THE SNUG-TIGHT CONDITION, UNO.
- 7. WEB STIFFENERS SHALL BE PROVIDED IN WE SHAPES AS FOLLOWS:

BEAM WEBS: WHERE BEAM BEARS ON COLUMN, SAME THICKNESS AND STRENGTH AS COLUMN FLANGES. BEAM WEBS: WHERE COLUMN BEARS ON BEAM, SAME THICKNESS AND STRENGTH AS

COLUMN FLANGES. 8. PRIOR TO DETAILING CONNECTIONS FOR STRUCTURAL STEEL, THE STEEL FABRICATOR SHALL SUBMIT FOR APPROVAL REPRESENTATIVE DETAILS FOR EACH TYPE OF PROPOSED STRUCTURAL CONNECTION. SUCH DETAILS SHALL INDICATE DESIGN CAPACITIES. AFTER APPROVAL, THE CONNECTIONS SHALL BE INCORPORATED INTO SHOP DRAWINGS.

### \_ MODIFY ENDS OF EXISTING 3X TO (E) BM-(E)BRNG WALL-ACCEPT JOIST HANGERS — (E) SHEATHING SIMPSON HANGER 36 --(E) SHEATHING FIRST FLOOR EL +8'-10 3/4" SECOND FLOOR FL +19'-0 3/4" (E) 3x8 @ 16" o/c (E) 3x8 @ 16" o/c -BLOCKING -(E) BLOCKING (E) BRNG WALL # BOLTS TO BE REMOVED 1 DIA @ 32 O.C. BEAM PER PLAN. TYPICAL SECTION @ EXISTING FLOOR

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

(E) SLAB ON GRADE

EL =0'-0"

1" & KWIK BOLT

(E) SLAB ON GRADE -

EL =0'-0"

DRILL & GROUT #3 X -

6"/ 3" INTO EXISTING

SLAB @ 18" O.C.

BASEMENT

\ 51.1*/* 

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

TYPICAL SLAB REPAIR DETAIL

EXTENT & LOCATION TO BE DETERMINED IN THE FIELD IF DIRECTED

SECTION AT WALL REPLACEMENT

— SAW CUT

- EPOXY BONDING AGENT

- 4"COMPACTED

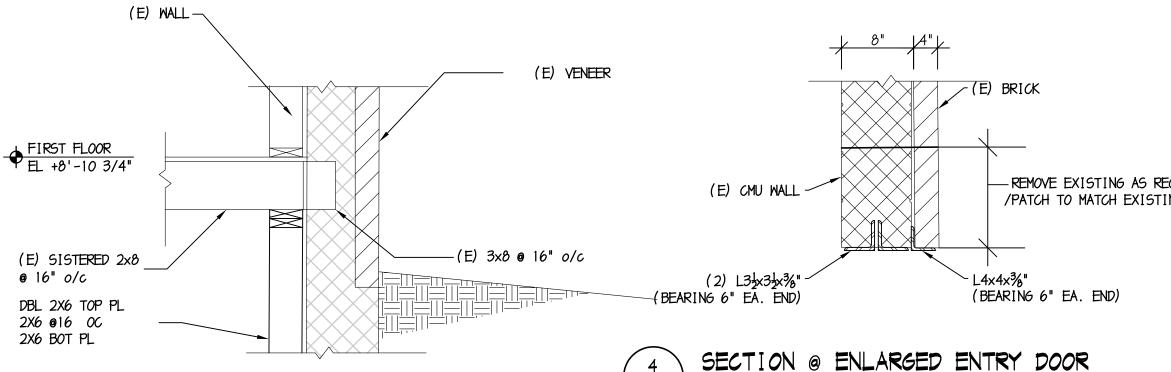
GRAVEL BASE

- REFER TO ARCH'L DWGS

FOR E

-66-W2.9X2.9 WWF

**@4**'-0 0.C.



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

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

SECTION

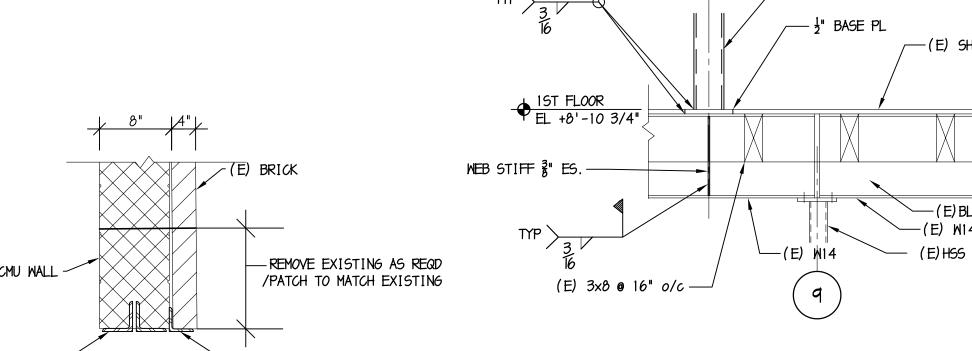
SCALE: 3/4" = 1'-0"

4X4 @ 4'+/- O.C.

◆ ATTIC EL +28'-4"

(E) 3x8 @ 16" o/c-

(E) BRNG WALL



-(E) 4x4 @ 12'± o/c

- 2×4 V & 2×6 H/CONT

— CATWALK ⅓" SHEATHING

-(2)2×4 H(*CO*NT)

`½"Φ LAG BOLTS

(TO ROOF RAFTER)

SECTION

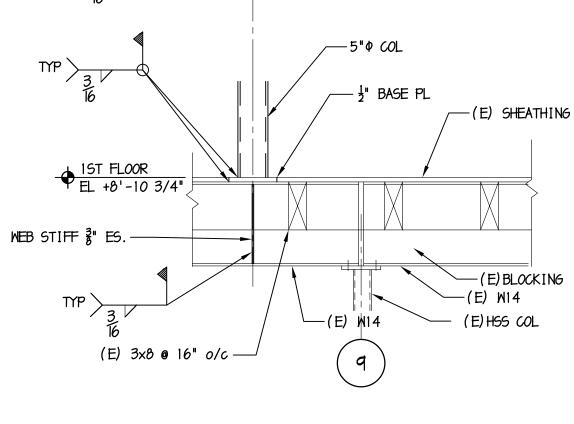
SCALE: 3/4" = 1'-0"

引 WEB STIFF/ES —

 $\frac{1}{2}$ " PL W/ 4-  $\frac{1}{2}$ "  $\phi$  BOLTS

2ND FLOOR EL +19-0 3/4"

(E) 3x8 @ 16" o/c



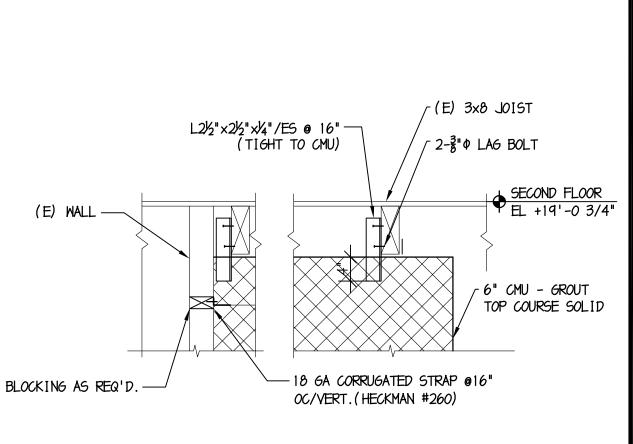
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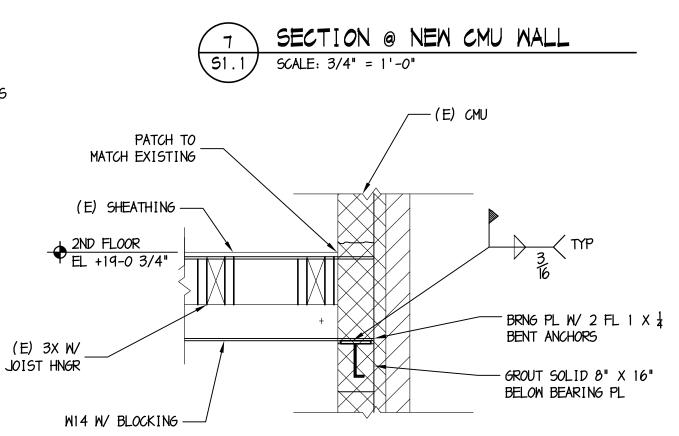
\_\_\_ 5"Φ COL

— (E) SHEATHING

W14 W/ BLOCKING/ES

½"Φ THRU BOLTS @ 24"









NJ CERT. OF AUTHORIZATION #24GA28010400

fax: (856) 310-1829 ANTHONY M. ERCOLE, PE NEW JERSEY PE #GE024913



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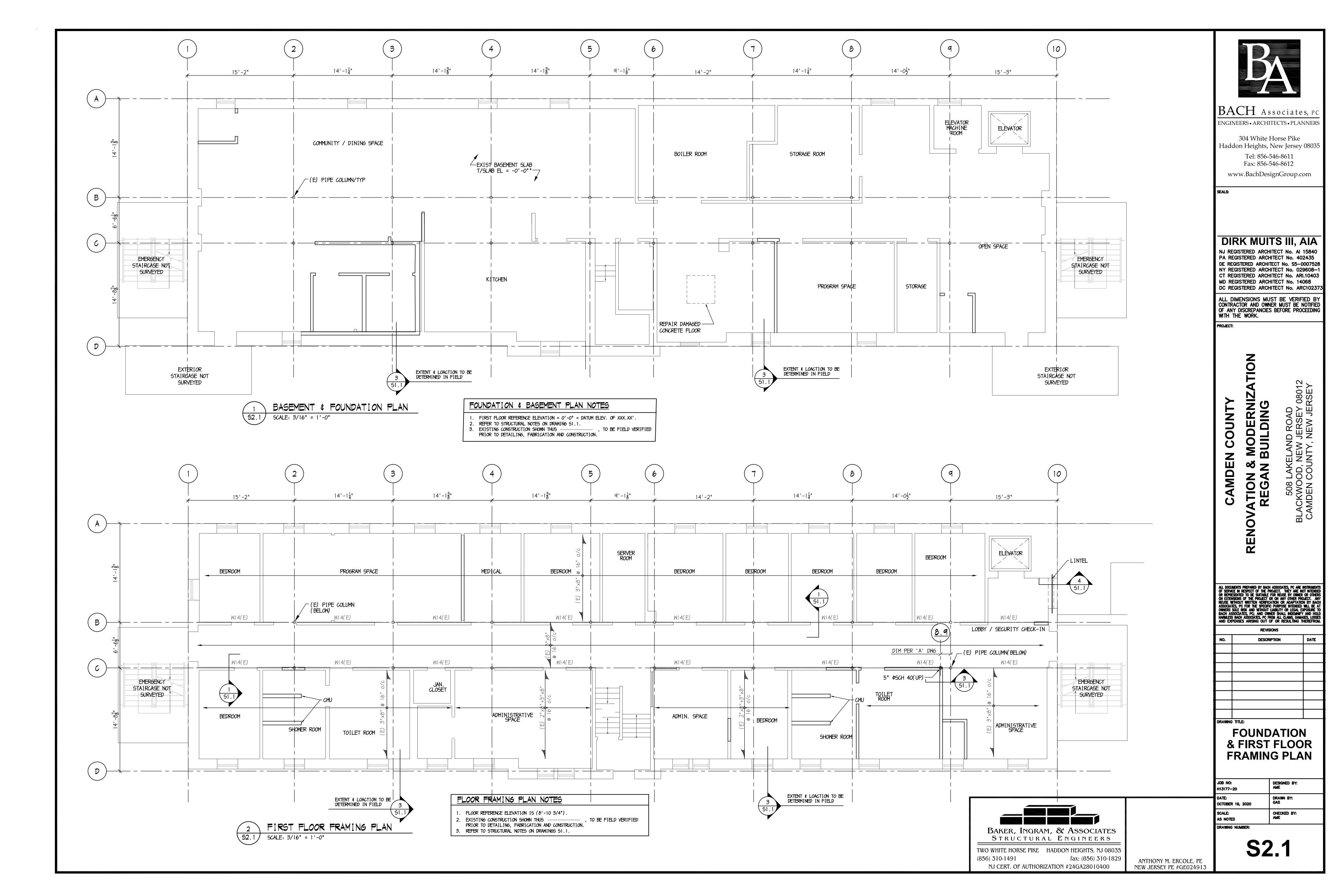
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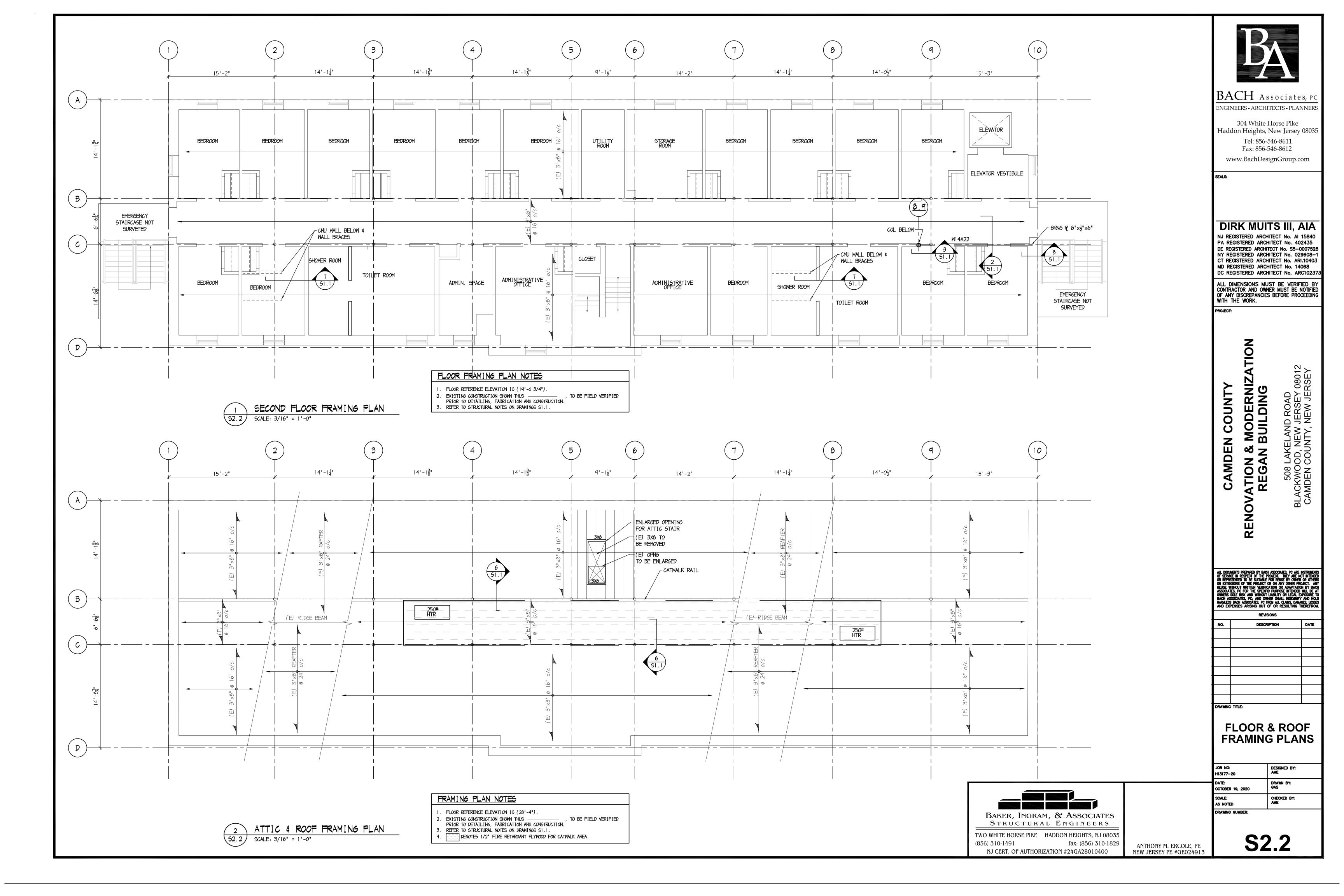
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	REVISION	s				
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DRAWING TITL	E:					
	CENEDAL NOTES					

GENERAL NOTES & DETAILS

DESIGNED BY: H13177-20 DRAWN BY: OCTOBER 19, 2020 SCALE: CHECKED BY: AS NOTED DRAWING NUMBER:

**S1.1** 





### ELECTRICAL ABBREVIATIONS

CONVEN	ST OF ABBREVIATIONS IS PROVIDED FO IIENCE ONLY. ITEMS LISTED HERE MAY OT BE USED ON THIS PROJECT.	OR OR	
1/C A/C ABV AC AFF AFG AHU ATS ALT	SINGLE CONDUCTOR  AIR CONDITIONER  AMPS  ABOVE  ALTERNATING CURRENT  ABOVE FINISHED FLOOR  ABOVE FINISHED GRADE  AIR HANDLING UNIT  AUTOMATIC TRANSFER SWITCH  ALTERNATE	INCL INST INSUL JB JC JT KVA KW LTG LV	INCLUDE INSTANTANEOUS INSULATION JUNCTION BOX JANITOR'S CLOSET JOINT KILOVOLT AMPERE KILOWATT  LIGHTING LOW VOLTAGE
ARCH AUTO AVG BKR BLDG BLW	ARCHITECTURAL AUTOMATIC AVERAGE  BREAKER BUILDING BELOW	LVR  MAX  MC  MCB  MCC	LOUVER  MAXIMUM  MECHANICAL CONTRACTOF  MAIN CIRCUIT BREAKER  MOTOR CONTROL CENTER
BTM  C CT CAP CFM CIRC CKT	BOTTOM  CONDUIT CURRENT TRANSFORMER CAPACITY CUBIC FEET/MINUTE CIRCULATING CIRCUIT	MECH MFR MH MIN MISC MLO MTD MTG	MECHANICAL MANUFACTURER MANHOLE MINIMUM MISCELLANEOUS MAIN LUGS ONLY MOUNTED MOUNTING
CLG CONC CONN CONST CONT CONTR CPU CU	CEILING CONCRETE CONNECTION CONSTRUCTION CONTINUOUS CONTRACTOR CENTRAL PROCESSING UNIT COPPER	NIC NO NTS OC OH OPNG	NOT IN CONTRACT NUMBER NOT TO SCALE ON CENTER OVERHEAD OPENING
DED DET DIAM DIM DISC DIV DN DPR DWG	DEDICATED DETAIL DIAMETER DIMENSION DISCONNECT DIVISION DOWN DAMPER DRAWING	PC PEND PLBG PNL PRESS SW PS PT	PLUMBING CONTRACTOR PENDANT PLUMBING PANEL PRESSURE SWITCH PULL SWITCH POTENTIAL TRANSFORMER
EA EC ELEC ELEV	EACH ELECTRICAL CONTRACTOR ELECTRICAL ELEVATOR	REC, REC'S RECEPT REQD RM	RECESSED RECEPTACLES RECEPTACLE REQUIRED ROOM
EM GEN EM GEN ENCL EQUIP EWC EXH EXIST EXT	EMERGENCY ONLY EMERGENCY GENERATOR ENCLOSURE EQUIOMENT ELECTRIC WATER COOLER EXHAUST EXISTING EXTERIOR	SECT SIM SQ FT STD STL STOR STRUCT SURF SUSP CLG	SECTION SIMILAR SQUARE FEET STANDARD STEEL STORAGE STRUCTURAL SURFACE SUSPENDED CEILING
F & I FACP FBO FP FPC FIN FIXT FLR FLUOR	FURNISHED & INSTALLED FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS FIRE PROTECTION FIRE PROTECTION CONTRACTOR FINISH FIXTURE FLOOR FLUORESCENT FILISE	TELE TEMP TERM T-STAT TV TYP	TELEPHONE TEMPERATURE TERMINAL THERMOSTAT TELEVISON TYPICAL

### MOUNTING HEIGHTS ELEVATION

GAUGE GENERAL CONTRACTOR GROUND FAULT INTERRUPTER GROUND

HORIZONTAL HORSEPOWER HEIGHT HEATING

HIGH VOLTAGE HOT WATER HEATER HERTZ

HORIZ HP HT HTG HV HWH HZ UNDERGROUND UNIT HEATER UNIT VENTILATOR

WEATHERPROOF WEIGHT

TRANSFORMER

VOLUME

VISUAL DISPLAY TERMINAL

REMOTE RELEASE

ELECTRIC HINGE

ELECTRIC STRIKE

KEY SWITCH

GLASS BREAK

1	
6" ABOVE FIRE HOSE CABINET	RED SIGNAL LIGHT
10'-0"	BATTERY LIGHTING UNITS & REMOTE WALL MOUNTED LIGHT HEADS (OR 1'-0" BELOW FINISHED CEILING TO TOP OF UNIT)
8'-6"	PENDANT HUNG & INDUSTRIAL STRIP FIXTURES
CENTERED ABV. WINDOW	WARNING & SIGNALING FIXTURES.
OR DOOR OPENING 6'-8"	OR 6" BELOW FINISHED CEILING, WHICHEVER IS LOWER, FIRE ALARM SIGNAL DEVICES & ILLUMINATED FIRE SIGNALS.
6'-6"	TOP OF FLUSH & SURFACE MOUNTED ELECTRICAL LIGHTING OR POWER PANELBOARDS & TELEPHONE CABINETS.
6'-3"	TOP OF BACK-MOUNTED WALL EXIT FIXTURES. (NOT MOUNTED ABV. DOORS)
6'-0'	TOP OF HIGHEST ELECTRICAL SAFETY DISCONNECT SWITCHES, MAGNETI STARTERS, & CONTACTORS.
4'-6"	WALL MOUNTED INTERCOM, NURSE CALL STATIONS, CLOCK CONTROL PANEL, WALL MOUNTED TELEPHONE & PAY STATIONS. (3'-6" AT HANDICAP LOCATIONS—VERIFY EXACT HEIGHT PRIOR TO ROUGH—IN)
4'-0"	WALL MOUNTED WIREMOLD, LIGHTING SWITCHES, MANUAL MOTOR STARTERS, THERMOSTATS, FIRE ALARM PULL STATIONS & G.F.I. RECEPTACLES IN TOILET ROOMS OR FOR SEPARATE SINKS NOT IN CASEWORK.
3'-6"	MANUAL FIRE ALARMS
2'-0"	ELECTRICAL RECEPTACLES WITHIN MECHANICAL SPACES, ELECTRICAL & ELEVATOR ROOMS.
18"	ELECTRICAL RECEPTACLES, TELEPHONE OUTLETS COMPUTER OUTLETS, INTERCOM OUTLETS FOR DESKS
0'-0"	FINISHED FLOOR

MOUNTING HEIGHT NOTES:

OR SPECIFICATIONS.

& CASEWORK CONTRACTOR.

MOUNTING HEIGHTS TO CENTER OF OUTLETS UNLESS OTHERWISE NOTED. IN MASONRY CONSTRUCTION, HEIGHTS SHALL

THE ABOVE MOUNTING HEIGHTS SHALL BE ADHERED TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE ON THE DRAWINGS

BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSING.

A + BESIDE A DEVICE INDICATES THAT A DEVICE IS MOUNTED ABOVE A COUNTER OR CASEWORK. COORDINATE WITH ARCHITECTURAL DWGS.

### ELECTRICAL SYMBOLS SCHEDULE

THIS IS A COMPLETE LIST OF ELECTRICAL SYMBOLS FOR REFERENCE ONLY.	POWER DISTRIB.	COMMUN	IICATIONS	ELECTRIC	CAL DEVICES
SYMBOLS FOR REFERENCE ONLY. SYMBOLS SHOWN HERE MAY OR MAY NOT BE USED ON THIS PROJECT.	SURFACE MTD PANELBOARD	H	TELEPHONE OUTLET	\$ \$ <sub>2</sub> \$ <sub>3</sub> \$ <sub>4</sub>	SINGLE-POLE DOUBLE-POLE 3-WAY AND 4-WAY SWITCHES
	FLUSH MTD PANELBOARD	<b>⋈</b> w	WALL MTD TELE OUTLET	\$ <sub>WP</sub>	SINGLE POLE SWITCH — WEATHERPROOF
GENERAL SYMBOLS		<b>"</b> M	DATA OUTLET	\$ <sub>1</sub> \$ <sub>0</sub>	DUAL LEVEL SWITCHING INSIDE/OUTSIDE LAMP CONTROI
6 KEY NOTE INDICATOR	120/208V PANEL	×	COMBINATION TELE/DATA OUTLET	\$ <sub>K</sub>	KEY-LOCK SWITCH
5 EQUIPMENT INDICATOR	(M) MOTOR CONNECTION	⊌ <sub>PF</sub>	COMBINATION TELE/DATA OUTLET AT MOVABLE PARTITION	\$ <u></u>	LIGHTED-HANDLE SWITCH
2 SCHEDULED ITEM INDICATOR	☐ DISCONNECT SWITCH	M <sub>FF</sub>	TELE/DATA OUTLET FLUSH FLOOR MOUNTED	<b>\$</b> co	CENTER-OFF DOUBLE-POLE SWITCH
DRAWING REVISION INDICATOR	MAGNETIC STARTER	<b>V</b> ⊕	COMBINATION POWER & TELE/DATA OUTLET	\$ <sub>EXP</sub>	EXPLOSION-PROOF SWITCH
	COMBINATION STARTER/DISCONNECT		FLUSH FLOOR MOUNTED	\$	LOCAL WALL DIMMER SWITCH
CONDUIT AND WIRING	POWER COMPANY METER	<u>^</u>	TELE/DATA CONDUIT STUB-UP	\$ <sub>LV</sub>	LOW-VOLTAGE SWITCH
BRANCH CIRCUIT RUN CONCEALED	© T C. T. CABINET	WA	WIFI ACCESS POINT	\$ <sub>T</sub>	MANUAL, TOGGLE, SWITCH
BRANCH CIRCUIT RUN UNDER FLOOR		FIRE ALA	ARM SYSTEM	E	EMERGENCY POWER-OFF SWITCH
UP BRANCH CIRCUIT UP OR DOWN	<ul><li>JUNCTION BOX — CEILING MOUNTED</li><li>JUNCTION BOX — FLOOR MOUNTED</li></ul>		MANUAL PULL STATION	T	TIMECLOCK
				PC	
EM.	POWER SYSTEMS		HORN AND FLASHING LIGHT	R	
NI.	T TRANSFORMER		CHIME AND FLASHING LIGHT		
IV	ATS AUTOMATIC TRANSFER SWITCH	×22.	FIRE ALARM BELL	φ	SINGLE RECEPTACLE
LOW VOLTAGE CINCOTT	EM GEN EMERGENCY GENERATOR	$\square$	FLASHING LIGHT	Ф	
——SMR—— SURFACE METAL RACEWAY SIZED FOR NO. OF CONDUCTORS TO BE INSTALLED	PDU POWER DISTRIBUTION UNIT	(FS)	FIRE ALARM SPEAKER — CEILING MTD	#	DOUBLE DUPLEX RECEPTACLE
— CT — CABLE TRAY	UPS UNINTERRUPTABLE POWER SOURCE	<b>®</b>	FIRE ALARM SPEAKER — WALL MTD	•	DUPLEX SPLIT WIRED WITH BOTTOM OUTLET ON WALL SWITCH
INDICATES CONNECTION TO EXISTING		© —	COMBINATION SPEAKER/FLASHING LIGHT		SAFETY TYPE DUPLEX RECEPTACLE
		D ED	IONIZATION TYPE SMOKE DETECTOR	$\bigoplus_{IG}$	
	ATC AUTOMATIC TEMPERATURE CONTROL		THERMAL TYPE DETECTOR	₽IG/SP	
SOUND SYSTEM	GROUNDING AND LIGHTNING PROTECTION		IONIZATION TYPE MTD TO DUCT	$\Phi_{\sf EWC}$	DUAL LEVEL SWITCHING INSIDE/OUTSIDE LAMP CONTROL  KEY-LOCK SWITCH  LIGHTED-HANDLE SWITCH  CENTER-OFF DOUBLE-POLE SWITCH  EXPLOSION-PROOF SWITCH  LOCAL WALL DIMMER SWITCH  LOW-VOLTAGE SWITCH  MANUAL TOGGLE SWITCH WITH THERMAL OVERLOAD  EMERGENCY POWER-OFF SWITCH  TIMECLOCK  PHOTOCELL  RELAY W/ NUMBER AND TYPE OF POLES AS INDICATED  SINGLE RECEPTACLE  DUPLEX RECEPTACLE  DUPLEX SPLIT WIRED WITH BOTTOM OUTLET ON WALL SWITCH
	G CROUND CONDUCTOR BUIN CONCEALED		IONIZATION TYPE MTD IN PLENUM	P	GFI DUPLEX RECEPTACLE
S SPEAKER - CEILING MTD FLUSH	GROUND CONDUCTOR RON CONCEALED	TD <sub>D</sub>	THERMAL TYPE MTD TO DUCT	$\bigoplus_{WP}$	RECEPTACLE WITH WEATHERPROOF COVER
S) <sub>S</sub> SPEAKER — CEILING MTD SURFACE	GROUND CONDUCTOR ROW ONDER 1 LOOK	RI	REMOTE TEST SWITCH	<b>⊖</b> EXP	EXPLOSION-PROOF RECEPTACLE
	—G—□ THERMITE WELD TO BLDG OR EQUIP	PD <sub>R</sub>	PHOTOELECTRIC TYPE W/ RELAY	<b>⊜</b> FF	FLUSH-FLOOR MTD RECEPTACLE
	-G-B-G- THERMITE WELD OF GROUND CONDUCTORS	FS	FLOW SWITCH	<b>⊜</b> FP	PEDESTAL-FLOOR MTD RECEPTACLE
AUTOMATIC DOOR	——————————————————————————————————————	TS	TAMPER SWITCH	⊜ CP	PEDESTAL-COUNTER MTD RECEPTACLE
△ MOTION DETECTOR	——— ——— CONNECTION TO AIR TERMINAL FOR LIGHTNING PROTECTION	PS	PRESSURE SWITCH FOR DRY TYPE SYSTEM	<b>⇔</b> CL	CEILING MTD RECEPTACLE
MOTION DETECTOR H-HEAD MTD C-CEILING MTD	-GO THERMITE WELD TO GROUND ROD	TBO	REMOTE TROUBLE BELL	Фс	
PUSH PLATE	-G-≪G GROUND ROD TRIODE	SH	ELECTROMAGNETIC SHUTTER HOLDER	11 -	
KEY SWITCH	LICHTING	DH	ELECTROMAGNETIC DOOR HOLDER		
POWER RESET	LIGHTING  A	DC	FIRE ALARM SYSTEM ACTIVATED DOOR CLOSER	0	DROP CORD
DOOR MOUNTED SAFETY INTERLOCK	FIXTURE DESIG.—'A' FIXTURE TYPE 2A-2 'a' SWITCH NO. '2A-2' PANEL 2A CKT no.2	FT	FIREMANS TELEPHONE JACK	O <sub>PF</sub>	POWER FEED AT MOVABLE PARTITION
ELECTRIC STRIKE	2X4 FIXTURE	CZ	CONTROL ZAM	1	INDICATES OUTLET TO BE MOUNTED 8" ABOVE COUNTER HEIGHT. TYPICAL UNLESS
PUSH BUTTON	2X2 FIXTURE	MZ	MONITOR ZAM		
	1X4 FIXTURE	FACP	FIRE ALARM CONTROL PANEL	■□	
SECURITY SYSTEM	FLUORESCENT STRIPLIGHT	FACO	FIRE ALARM COMMAND CENTER	C	COSSITATO I SERSON CEILING MICCINTED
CARD ACCESS STATION	PENDANT TUBE FIXTURE	FAA	FIRE ALARM ANNUNCIATOR		1011 / 1/1050 01/0751
CARD ACCESS STATION	O RECESSED DOWNLIGHT	FTR	FIRE ALARM PUNCH TAPE RECORDER	TELEVIS	ION / VIDEO SYSTEM
KEY PAD	WALL WASHER	FDGP	FIRE ALARM DATA GATHERING PANEL	$ar{\mathbb{V}}$	TELEVISION OUTLET
	Ю WALL MTD FIXTURE	FSCP	FIRE SUPPRESSION CONTROL PANEL	<b>©</b> 0	
SECURITY CHIME	•☐ POLE MTD FIXTURE	<u>-</u> ◆	FIRE, SMOKE OR FIRE/SMOKE DAMPER	<b>©</b> 0	,
\$KBP KEY BY-PASS SW. FOR DOOR POSITION SW.		<b>9</b> 0	,	<b>90</b>	, · · · · · · · · · · · · · · · · · · ·
MD SECURITY SYSTEM MOTION DETECTOR		PD PD	120V HOUSEHOLD SMOKE DETECTOR W/ 9V BATT BACK UP PHOTOELECTRIC TYPE SMOKE DETECTOR		
SECURITY TV CAMERA	₩ WALL MTD EXIT SIGN W/ ARROWS AS INDICATED	<u> 1</u>	. HOTOLLEGING THE GWORL BETEGION		
SEC SECURITY SYSTEM CONSOLE	OF FIXTURES AS INDICATED ON PLAN.				
ELECTROMAGNETIC LOCK	NL INDICATES NIGHT LIGHT				
_	← EMERGENCY BATTERY PACK W/ NUMBER OF HEADS				

EMERGENCY BATTERY PACK W/ NUMBER OF HEADS AS INDICATED.

EMERGENCY LIGHTING REMOTE HEADS

EMERGENCY BATTERY PACK



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ALS:

RONALD E. HEIGLER, JR. PE

DIRK MUTTS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840
PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

CAMDEN COUNTY
ATION & MODERNIZATION
REGAN BUILDING

8 LAKELAND ROAD OOD, NEW JERSEY 08012 I COUNTY, NEW JERSEY

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NO. DESCRIPTION DAT

ELECTRICAL COVER SHEET

CCIA2020-02

DM3/AAW/RH/BMG

DATE:

OCTOBER 19, 2020

SCALE:

AS NOTED

DRAWN BY:

DM3/AAW/AM

CHECKED BY:

SMB/DM3/AAW

DRAWING NUMBER:

**ECS** 

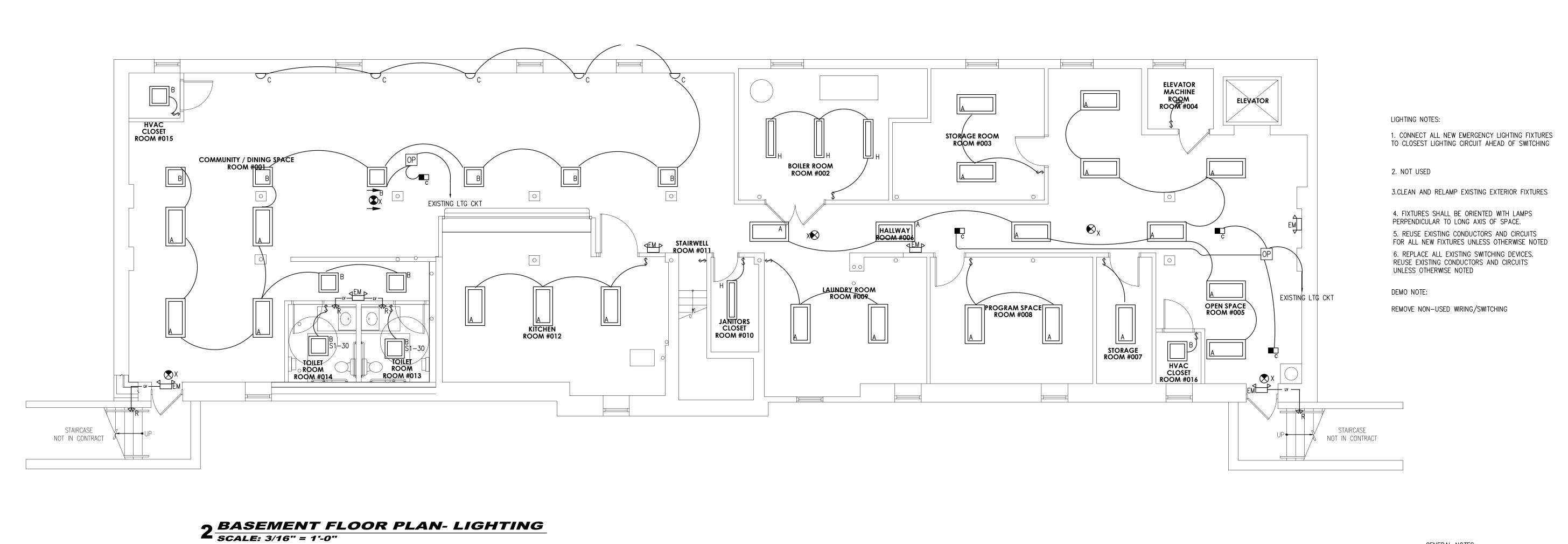
BHG CONSULTING ENGINEERS, INC.

1812 S. 22ND STREET

PHILADELPHIA, PA 19145

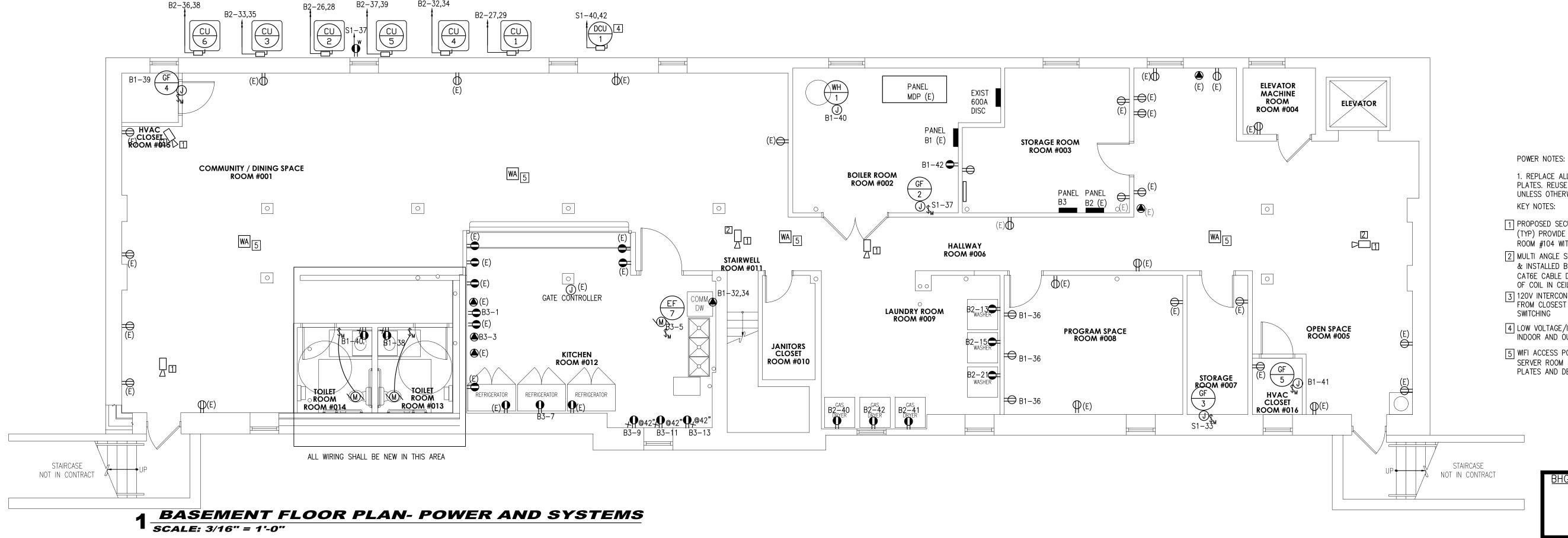
PHONE: (215) 755-9318

FAX: (215) 755-9319



GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN



- 1. REPLACE ALL EXISTING RECEPTACLE DEVICES AND PLATES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED
- 1 PROPOSED SECURITY CAMERAS. FINAL LOCATIONS TBD (TYP) PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING
- 2 MULTI ANGLE SECURITY CAMERAS-CAMERAS PROVIDED & INSTALLED BY OWNER. FOR EACH ANGLE, PROVIDE (1) CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6 OF COIL IN CEILING. VERIFY QUANTITY PRIÖR TO BIDDING 3 120V INTERCONNECTED SMOKE DETECTOR SHALL BE FED FROM CLOSEST AVAILABLE LIGHTING CIRCUIT AHEAD OF
- 4 LOW VOLTAGE/INTERCONNECTION WIRING BETWEEN THE INDOOR AND OUTDOOR UNITS SHALL BE BY OTHERS
- 5 WIFI ACCESS POINT: PROVIDE CAT6E CABLE DROP FROM SERVER ROOM #104 WITH 6' OF COIL IN CEILING. PLATES AND DEVICES BY OTHERS

BHG CONSULTING ENGINEERS, INC 1812 S. 22ND STREET PHILADELPHIA, PA 19145 PHONE: (215) 755-9318 FAX: (215) 755-9319

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### N.J. LIC. GE-44485 DIRK MUITS III, AIA

NJ REGISTERED ARCHITECT No. AI 15840 PA REGISTERED ARCHITECT No. 402435 DE REGISTERED ARCHITECT No. S5-0007528 NY REGISTERED ARCHITECT No. 029608-CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

, 08012 RSEY

DC REGISTERED ARCHITECT No. ARC102373

PROJECT:

MOIL MODERNIZ/ BUILDING Z W CAMD ATION

REN

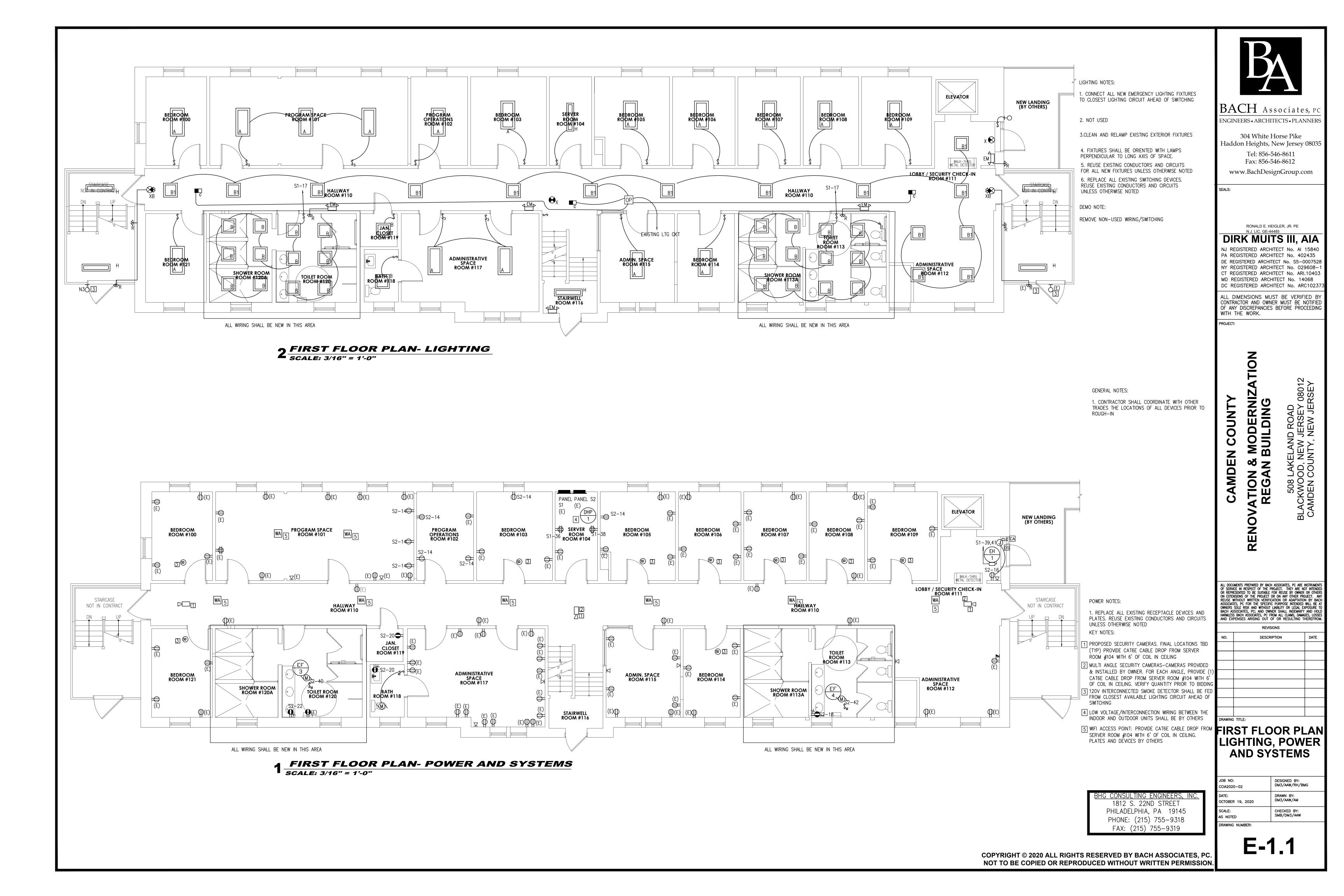
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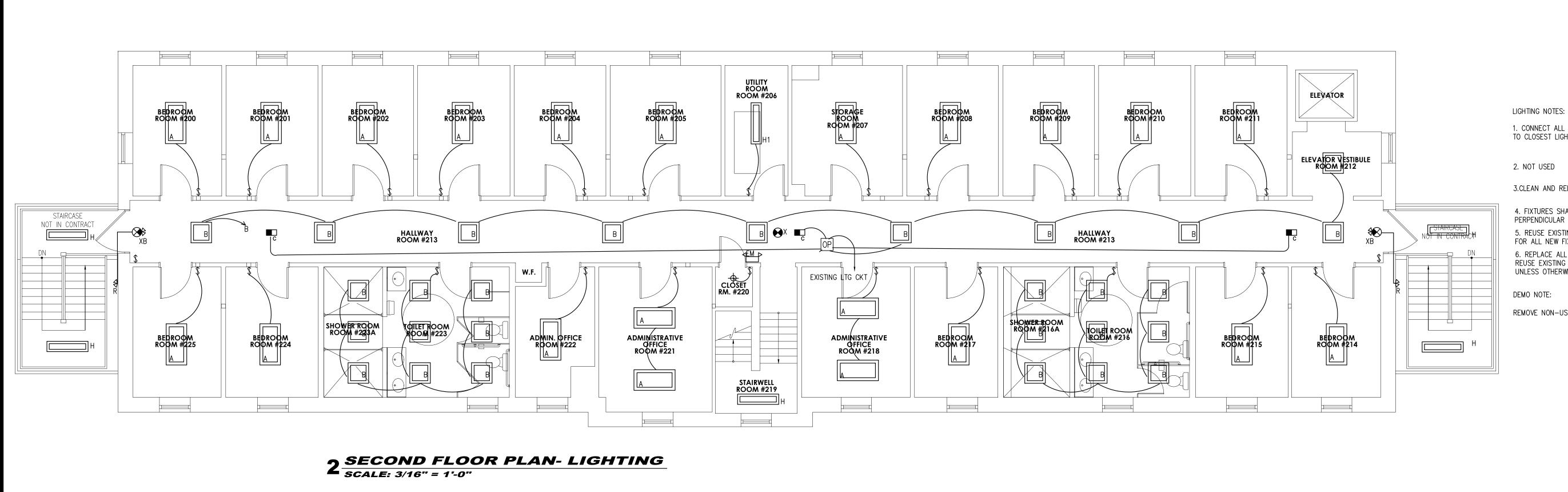
	REVISIONS	
NO.	DESCRIPTION	DATE

**BASEMENT PLAN** LIGHTING, POWER **AND SYSTEMS** 

DESIGNED BY: DM3/AAW/RH/BMG CCIA2020-02 DM3/AAW/AM OCTOBER 19, 2020 CHECKED BY: AS NOTED

DRAWING NUMBER:





1. CONNECT ALL NEW EMERGENCY LIGHTING FIXTURES TO CLOSEST LIGHTING CIRCUIT AHEAD OF SWITCHING

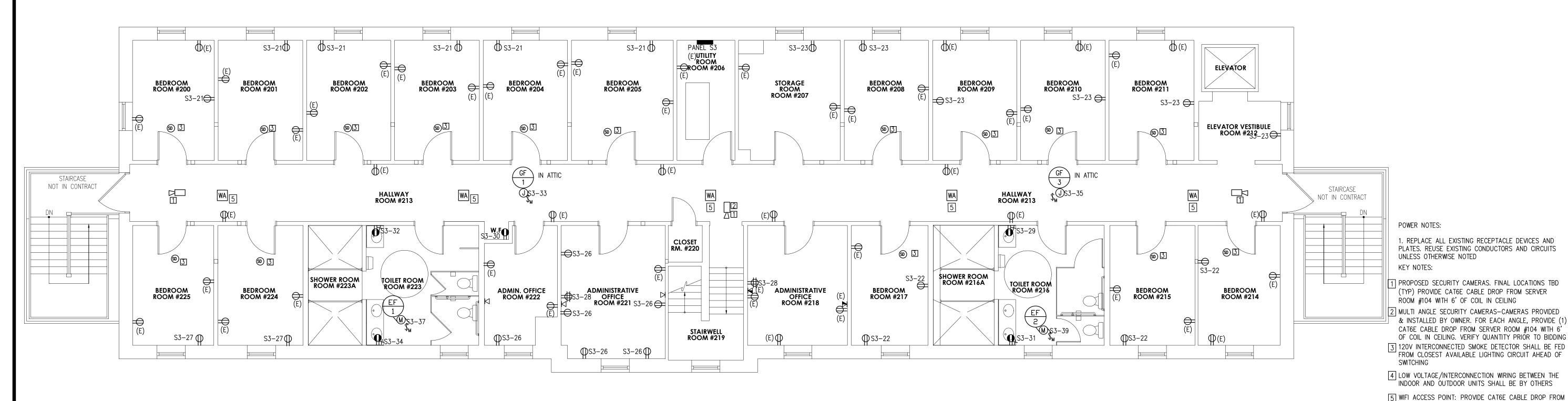
3.CLEAN AND RELAMP EXISTING EXTERIOR FIXTURES

4. FIXTURES SHALL BE ORIENTED WITH LAMPS PERPENDICULAR TO LONG AXIS OF SPACE. 5. REUSE EXISTING CONDUCTORS AND CIRCUITS FOR ALL NEW FIXTURES UNLESS OTHERWISE NOTED 6. REPLACE ALL EXISTING SWITCHING DEVICES. REUSE EXISTING CONDUCTORS AND CIRCUITS UNLESS OTHERWISE NOTED

REMOVE NON-USED WIRING/SWITCHING

1. CONTRACTOR SHALL COORDINATE WITH OTHER TRADES THE LOCATIONS OF ALL DEVICES PRIOR TO ROUGH-IN

GENERAL NOTES:



SECOND FLOOR PLAN- POWER AND SYSTEMS SCALE: 3/16" = 1'-0"

> BHG CONSULTING ENGINEERS, INC 1812 S. 22ND STREET PHILADELPHIA, PA 19145 PHONE: (215) 755-9318 FAX: (215) 755-9319

SERVER ROOM #104 WITH 6' OF COIL IN CEILING.

PLATES AND DEVICES BY OTHERS

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RONALD E. HEIGLER, JR. PE N.J. LIC. GE-44485 **DIRK MUITS III, AIA** 

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DC REGISTERED ARCHITECT No. ARC102373

PROJECT:

MOIL MODERNIZ/ BUILDING COUNTY Z W ∞ > CAMD ATION

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DESCRIPTION

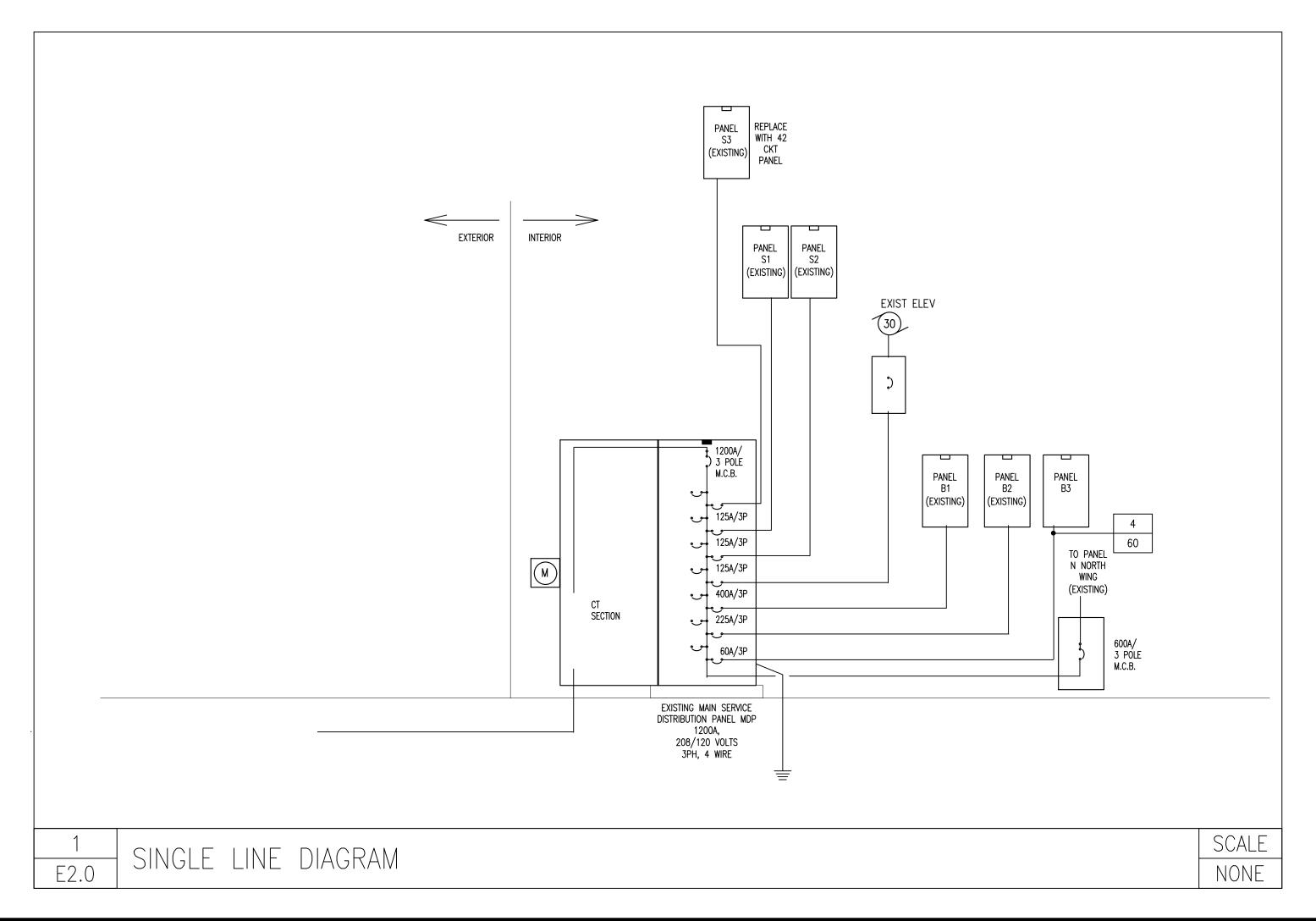
SECOND FL PLAN LIGHTING, POWER **AND SYSTEMS** 

DESIGNED BY: DM3/AAW/RH/BMG JOB NO: CCIA2020-02 DM3/AAW/AM OCTOBER 19, 2020 SCALE: CHECKED BY: -AS NOTED

DRAWING NUMBER:

			COPPER FEED	ER SCHEDULE	
_			ΤΥ	PE	
L	4	1	2	3	4
	225	1PH, 2W, +G	1PH, 3W, +G	3PH, 3W, +G	3PH, 4W, +G
	10	(2) #12 & #12G - 3/4 " C	(3) #12 & (1) #12G - 3/4 " C	(3) #12 & (1) #12G - 3/4 " C	(4) #12 & (1) #12G - 3/4 " C
	15	(2) #12 & #12G - 3/4 " C	(3) #12 & (1) #12G - 3/4 ° C	(3) #12 & (1) #12G - 3/4 " C	(4) #12 & (1) #12G - 3/4 " C
	20	(2) #12 & #12G - 3/4 " C	(3) #12 & (1) #12G - 3/4 " C	(3) #12 & (1) #12G - 3/4 " C	(4) #12 & (1) #12G - 3/4 " C
	25	(2) #10 & (1) #10G - 3/4 ° C	(3) #10 & (1) #10G - 3/4 ° C	(3) #10 & (1) #10G - 3/4 " C	(4) #10 & (1) #10G - 3/4 " C
	30	(2) #10 & (1) #10G - 3/4 " C	(3) #10 & (1) #10G - 3/4 " C	(3) #10 & (1) #10G - 3/4 " C	(4) #10 & (1) #10G - 3/4 " C
	35	(2) #8 & (1) #10G - 3/4 " C	(3) #8 & (1) #10G - 3/4 " C	(3) #8 & (1) #10G - 3/4 " C	(4) #8 & (1) #10G - 3/4 " C
	40	(2) #8 & (1) #10G - 3/4 " C	(3) #8 & (1) #10G - 3/4 " C	(3) #8 & (1) #10G - 3/4 " C	(4) #8 & (1) #10G - 3/4 " C
	45	(2) #6 & (1) #10G - 3/4 " C	(3) #6 & (1) #10G - 3/4 " C	(3) #6 & (1) #10G - 3/4 " C	(4) #6 & (1) #10G - 3/4 " C
	50	(2) #6 & (1) #10G - 3/4 " C	(3) #6 & (1) #10G - 3/4 " C	(3) #6 & (1) #10G - 3/4 " C	(4) #6 & (1) #10G - 3/4 " C
	60	(2) #4 & (1) #10G - 1" C	(3) #4 & (1) #10G - 1" C	(3) #4 & (1) #10G - 1" C	(4) #4 & (1) #10G - 1 1/4 " C
	70	(2) #4 & (1) #8G - 1" C	(3) #4 & (1) #8G - 1 1/4 " C	(3) #4 & (1) #8G - 1 1/4 " C	(4) #4 & (1) #8G - 1 1/4 " C
	80	(2) #3 & (1) #8G - 1" C	(3) #3 & (1) #8G - 1 1/4 "C	(3) #3 & (1) #8G - 1 1/4 "C	(4) #3 & (1) #8G - 1 1/4 " C
	90	(2) #2 & (1) #8G - 1" C	(3) #2 & (1) #8G - 1 1/4 " C	(3) #2 & (1) #8G - 1 1/4 " C	(4) #3 & (1) #8G - 1 1/2 " C
	100	(2) #1 & (1) #8G - 1 1/4 " C	(3) #1 & (1) #8G - 1 1/2 "C	(3) #1 & (1) #8G - 1 1/2 "C	(4) #1 & (1) #8G - 1 1/2 " C
	125	(2) #1 & (1) #6G - 1 1/4 " C	(3) #1 & (1) #6G - 1 1/2 " C	(3) #1 & (1) #6G - 1 1/2 "C	(4) #1 & (1) #6G - 1 1/2 "C
	150	(2) #1/0 & (1) #6G - 1 1/4 °C	(3) #1/0 & (1) #6G - 1 1/2 °C	(3) #1/0 & (1) #6G - 1 1/2 °C	(4) #1/0 & (1) #6G - 2°C
	175	(2) #2/0 & (1) #6G - 1 1/2 °C	(3) #2/0 & (1) #6G - 2°C	(3) #2/0 & (1) #6G - 2°C	(4) #2/0 & (1) #6G - 2"C
	200	(2) #3/0 & (1) #6G - 1 1/2 °C	(3) #3/0 & (1) #6G - 2°C	(3) #3/0 & (1) #6G - 2°C	(4) #3/0 & (1) #6G - 2"C
	225	(2) #4/0 & (1) #4G - 2°C	(3) #4/0 & (1) #4G - 2°C	(3) #4/0 & (1) #4G - 2°C	(4) #4/0 & (1) #4G - 2 1/2 °C
	250	(2) 250 kCmil & (1) #4G - 2*C	(3) 250 kCmil & (1) #4G - 2 1/2 "C	(3) 250 kCmil & (1) #4G - 2 1/2 "C	(4) 250 kCmil & (1) #4G - 3"C
	300	(2) 350 kCmil & (1) #4G - 2°C		(3) 350 kCmil & (1) #4G - 2 1/2 "C	(4) 350 kCmil & (1) #4G - 3"C
	350	(2) 500 kCmil & (1) #3G - 2 1/2 "C	(3) 500 kCmil & (1) #3G - 3"C	(3) 500 kCmil & (1) #3G - 3°C	(4) 500 kCmil & (1) #3G - 3 1/2 °C
	400	(2) 500 kCmil & (1) #3G - 2 1/2 "C	(3) 500 kCmil & (1) #3G - 3"C	(3) 500 kCmil & (1) #3G - 3*C	(4) 500 kCmil & (1) #3G - 3 1/2 °C
SIZE	450	(2) 2°C EACH WITH (2) #4/0 & (1) #2G	(2) 2°C EACH WITH (3) #4/0 & (1) #2G	(2) 2°C EACH WITH (3) #4/0 & (1) #2G	(2) 2 1/2 "C EACH WITH (4) #4/0 & (1) #2G
	500	(2) 2" C EACH WITH (2) 250 kCmil & (1) #2G	(2) 2 1/2 " C EACH WITH (3) 250 kCmil & (1) #2G	(2) 2 1/2 " C EACH WITH (3) 250 kCmil & (1) #2G	(2) 3" C EACH WITH (4) 250 kCmil & (1) #2G
	600	(2) 2 1/2 " C EACH WITH (2) 350 kCmil & (1) #1G	(2) 2 1/2 " C EACH WITH (3) 350 kCmil & (1) #1G	(2) 2 1/2 " C EACH WITH (3) 350 kCmil & (1) #1G	(2) 3" C EACH WITH (4) 350 kCmil & (1) #1G
	800	(2) 2 1/2 " C EACH WITH (2) 500 kCmil & (1) #1/0G	(2) 3" C EACH WITH (3) 500 kCmil & (1) #1/0G	(2) 3" C EACH WITH (3) 500 kCmil & (1) #1/0G	(2) 3 1/2 " C EACH WITH (4) 500 kCmil & (1) #1/0G
	900	(3) 2 1/2 " C EACH WITH (2) 350 kCmil & (1) #2/0G	(3) 3" C EACH WITH (3) 350 kCmil & (1) #2/0G	(3) 3" C EACH WITH (3) 350 kCmil & (1) #2/0G	(3) 3" C EACH WITH (4) 350 kCmil & (1) #2/0G
	1000	(3) 2 1/2 " C EACH WITH (2) 500 kCmil & (1) #2/0G	(3) 3" C EACH WITH (3) 500 kCmil & (1) #2/0G	(3) 3" C EACH WITH (3) 500 kCmil & (1) #2/0G	(3) 3 1/2 " C EACH WITH (4) 500 kCmil & (1) #2/0G
	1200	(4) 2 1/2 " C EACH WITH (2) 350 kCmil & (1) #3/0G	(4) 3" C EACH WITH (3) 350 kCmil & (1) #3/0G	(4) 3" C EACH WITH (3) 350 kCmil & (1) #3/0G	(4) 3" C EACH WITH (4) 350 kCmil & (1) #3/0G
	1600	(5) 3" C EACH WITH (2) 500 kCmil & (1) #4/0G	(5) 3" C EACH WITH (3) 500 kCmil & (1) #4/0G	(5) 3" C EACH WITH (3) 500 kCmil & (1) #4/0G	(5) 3 1/2 " C EACH WITH (4) 500 kCmil & (1) #4/0G
	2000	(6) 3" C EACH WITH (2) 500 kCmil & (1) 250kCmil G	(6) 3" C EACH WITH (3) 500 kCmil & (1) 250kCmil G	(6) 3" C EACH WITH (3) 500 kCmil & (1) 250kCmil G	(6) 3 1/2 " C EACH WITH (4) 500 kCmil & (1) 250kCmil G
	2500	(7) 3" C EACH WITH (2) 500 kCmil & (1) 350kCmil G	(7) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 350kCmil G	(7) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 350kCmil G	(7) 3 1/2 " C EACH WITH (4) 500 kCmil & (1) 350kCmil G
	3000	(8) 3" C EACH WITH (2) 500 kCmil & (1) 500kCmil G	(8) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(8) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(8) 4" C EACH WITH (4) 500 kCmil & (1) 500kCmil G
	3500	(10) 3" C EACH WITH (2) 500 kCmil & (1) 500kCmil G	(10) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(10) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(10) 4" C EACH WITH (4) 500 kCmil & (1) 500kCmil G
	4000	(11) 3" C EACH WITH (2) 500 kCmil & (1) 500kCmil G	(11) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(11) 3 1/2 " C EACH WITH (3) 500 kCmil & (1) 500kCmil G	(11) 4" C EACH WITH (4) 500 kCmil & (1) 500kCmil G

		Т	ALUMINUM FEEI		
Г	4		ΤΥ		
-:	225	1	2 OR 3	4	4N
_		1PH, 2W, +G	1PH, 3W, +G OR 3PH, 3W,+G	3PH, 4W, +G	3PH,4W,+G AND 200% N
	100	(2) #1 & (1) #6G - 1 1/4°C	(3) #1 & (1)#6G - 1 1/2°C	(4) #1& (1) #6G - 1 1/2°C	(5) #2/0 & (1) #4G - 2°C
	125	(2)#1/0 & (1) #4G-1 1/4°C	(3) #2/0 & (1) #4G - 1 1/2°C	(4) #2/0 & (1) #4G-2°C	(5) #3/0 & (1) #4G - 2 1/2°C
ļ	150	(2) #3/0 & (1) #4G - 1 1/2 °C	(3) #3/0 & (1) #4G - 1 1/2:"C	(4) #3/0 & (1) #4G - 2°C	(5) #4/0 & (1) #4G - 3°C
	175	(2) #4/0 & (1) #4G - 2°C	(3) #4/0 & (1) #4G - 2"C	(4) #4/0 & (1) #4G - 2 1/2°C	(5) 350 kCmil & (1) #2G - 3°C
ļ	200	(2) 250 kCmil & (1) #4G - 2"C	(3) 250 kCmil & (1) #4G - 2 1/2"C	(4) 250 kCmil & (1) #4G - 2 1/2°C	(5) 350 kCmil & (1) #2G - 3"C
ļ	225	(2) 350 kCmil & (1) #2G - 2°C	(3) 350 kCmil & (1) #2G - 2 1/2"C	(4) 350 kCmil & (1) #2G - 3"C	(5) 500 kCmil & (1) #2G - 3 1/2"C
ŀ	250	(2) 350 kCmil & (1) #2G - 2 "C	(3) 350 kCmil & (1) #2G - 2 1/2"C	(4) 350 kCmil & (1) #2G - 3"C	(5) 500 kCmil & (1) #2G - 4°C
ļ	300	(2) 500 kCmil & (1) #2G - 2 1/2°C	(3) 500 kCmil & (1) #2G - 3°C	(4) 500 kCmil & (1) #2G - 3 1/2°C	(5) 750 kCmil & (1) #1G - 5"C
	350	(2) 750 kCmil & (1) #1G -3°C	(3) 750 kCmil & (1) #1G -3 1/2" C	(4) 750 kCmil & (1) #1G -4°C	(2) 3" C EACH WITH (5) 350 kCmil & (1) #1/0G
OLE L	400	(2) 2" C EACH WITH (2) 250 kCmil & (1) #1G	(2) 2 1/2" C EACH WITH (3) 250 kCmil & (1) #1G	(2) 3" C EACH WITH (4) 250 kCmil & (1) #1G	(2) 3" C EACH WITH (5) 350 kCmil & (1) #1/0G
	450	(2) 2" C EACH WITH (2) 350 kCmil & (1) #1/0G	(2) 2 1/2" C EACH WITH (3) 350 kCmil & (1) #1/0G	(2) 3" C EACH WITH (4) 350 kCmil & (1) #1/0G	(2) 3 1/2" C EACH WITH (5) 500 kCmil & (1) #2/0G
	500	(2) 2" C EACH WITH (2) 350 kCmil & (1) #1/0G	(2) 2 1/2" C EACH WITH (3) 350 kCmil & (1) #1/0G	(2) 3" C EACH WITH (4) 350 kCmil & (1) #1/0G	(2) 4" C EACH WITH (5) 500 kCmil & (1) #3/0G
	600	(2) 2 1/2" C EACH WITH (2) 500 kCmil & (1) #2/0G	(2) 3" C EACH WITH (3) 500 kCmil & (1) #2/0G	(2) 3 1/2" C EACH WITH (4) 500 kCmil & (1) #2/0G	(2) 5" C EACH WITH (5) 750 kCmil & (1) #3/0G
	800	(3) 2 1/2" C EACH WITH (2) 350 kCmil & (1) #3/0G	(3) 3" C EACH WITH (3) 350 kCmil & (1) #3/0G	(3) 3" C EACH WITH (4) 350 kCmil & (1) #3/0G	(3) 4" C EACH WITH (5) 500 kCmil & (1) #4/0G
	900	(3) 2 1/2" C EACH WITH (2) 500 kCmil & (1) #4/0G	(3) 3" C EACH WITH (3) 500 kCmil & (1) #4/0G	(3) 3 1/2" C EACH WITH (4) 500 kCmil & (1) #4/0G	(3) 5" C EACH WITH (5) 750 kCmil & (1) 250 kCmil G
	1000	(3) 3" C EACH WITH (2) 500 kCmil & (1) #4/0G	(3) 3" C EACH WITH (3) 500 kCmil & (1) #4/0G	(3) 3 1/2" C EACH WITH (4) 500 kCmil & (1) #4/0G	(4) 5" C EACH WITH (5) 750 kCmil & (1) 350 kCmil G
•	1200	(4) 2 1/2" C EACH WITH (2) 500 kCmil & (1) 250 kCmil G	(4) 3" C EACH WITH (3) 500 kCmil & (1) 250 kCmil G	(4) 3 1/2" C EACH WITH (4) 500 kCmil & (1) 250 kCmil G	(4) 5" C EACH WITH (5) 750 kCmil & (1) 350 kCmil (
	1600	(4) 3" C EACH WITH (2) 750 kCmil & (1) 350 kCmil G	(4) 3 1/2" C EACH WITH (3) 750 kCmil & (1) 350 kCmil G	(4) 4" C EACH WITH (4) 750 kCmil & (1) 350 kCmil G	(6) 5" C EACH WITH (5) 750 kCmil & (1) 500 kCmil (
	2000	(6) 3" C EACH WITH (2) 750 kCmil & (1) 500 kCmil G	(6) 4" C EACH WITH (3) 750 kCmil & (1) 500 kCmil G	(6) 4" C EACH WITH (4) 750 kCmil & (1) 500 kCmil G	(6) 4" C EACH WITH (5) 750 kCmil & (1) 500 kCmil (
	2500	(7) 3 1/2" C EACH WITH (2) 750 kCmil & (1) 750 kCmil G	(7) 4" C EACH WITH (3) 750 kCmil & (1) 750 kCmil G	(7) 5" C EACH WITH (4) 750 kCmil & (1) 750 kCmil G	(9) 5" C EACH WITH (5) 750 kCmil & (1) 750 kCmil (
	3000	(8) 3 1/2" C EACH WITH (2) 750 kCmil & (1) 750 kCmil G	(8) 4" C EACH WITH (3) 750 kCmil & (1) 750 kCmil G	(8) 5" C EACH WITH (4) 750 kCmil & (1) 750 kCmil G	(10) 5" C EACH WITH (5) 750 kCmil & (1) 750 kCmil (
	4000	(11) 3 1/2" C EACH WITH (2) 750 kCmil & (1) 750 kCmil G	(11) 4" C EACH WITH (3) 750 kCmil & (1) 750 kCmil G	(11) 5" C EACH WITH (4) 750 kCmil & (1) 750 kCmil G	(13) 5" C EACH WITH (5) 750 kCmil & (1) 750 kCmil (



### GENERAL REQUIREMENTS FOR ELECTRICAL WORK

1. CONTRACTOR SHALL PROVIDE LABOR, MATERIAL, EQUIPMENT AND SERVICES FOR THE PROPER INSTALLATION AND OPERATION OF THE ELECTRICAL WORK AS INDICATED ON THE DRAWINGS AND AS SPECIFIED.

2. LABOR, MATERIAL, EQUIPMENT AND SERVICE OBVIOUSLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ELECTRICAL SYSTEMS, ALTHOUGH NOT SPECIFICALLY MENTIONED OR SHOWN, SHALL BE PROVIDED.

3. ELECTRICAL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE <u>NATIONAL ELECTRIC CODE</u> AND <u>APPLICABLE LAWS</u>, <u>CODES AND REGULATIONS OF MUNICIPAL</u>, <u>COUNTY</u>, <u>STATE</u>, <u>FEDERAL AUTHORITIES</u>, <u>UTILITY COMPANIES</u>, <u>INSURANCE AGENCIES</u> AND OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.

CONTRACTOR AND ALL EMPLOYEES SHALL FAMILIARIZE THEMSELVES WITH OWNERS, STATE, LOCAL AND FEDERAL CONSTRUCTION SAFETY GUIDELINES PRIOR TO THE COMMENCEMENT OF WORK.

4. OBTAIN, PAY FOR AND DELIVER PERMITS AND CERTIFICATES OF INSPECTION AS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. DELIVER CERTIFICATES TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. AN ELECTRICAL INSPECTION CERTIFICATE, FOR EACH CLASS OF WORK REQUIRING INSPECTION, MUST BE SUBMITTED PRIOR TO OR WITH THE FINAL PAYMENT INVOICE. CONTRACTOR MUST MAKE APPLICATION FOR THE INSPECTION, COORDINATE SAME, AND PAY THE REQUIRED INSPECTION FEE.

5. BEFORE SUBMITTING HIS BID, TRADE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD. FAILURE TO DO SO SHALL NOT RELIEVE TRADE CONTRACTOR OF HIS OBLIGATION TO PAY FOR COSTS THAT MAY BE INCURRED DUE TO CONDITIONS THAT MAY AFFECT THE COST OF INSTALLING HIS WORK.

6. DRAWINGS ARE DIAGRAMMATIC, SMALL SCALE AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED. HOWEVER, CERTAIN RACEWAYS, BENDS, FITTINGS, BOXES, SYSTEM COMPONENTS, APPURTENANCES AND RELATED SPECIALTIES ARE NOT SHOWN, BUT SHALL BE PROVIDED TO INSURE A COMPLETE INSTALLATION.

7. CONSULT THE DRAWINGS FOR EXACT LOCATION OF FIXTURES AND EQUIPMENT. WHERE SAME ARE NOT DEFINITELY LOCATED, OBTAIN THIS INFORMATION FROM THE ARCHITECT/ENGINEER.

8. INCIDENTAL ACCESSORIES NECESSARY TO MAKE THE WORK COMPLETE AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED OR SHOWN, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT MANIFESTLY NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF THE VARIOUS SYSTEMS, SHALL BE INCLUDED IN THE WORK, THE SAME AS IF SPECIFIED OR SHOWN ON THE DRAWINGS. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN REVIEW.

9. NO CONSIDERATION OR ALLOWANCE SHALL BE GRANTED FOR ALLEGED MISUNDERSTANDING OF MATERIALS AND EQUIPMENT TO BE FURNISHED FOR WORK TO BE ACCOMPLISHED.

10. WORK FURNISHED UNDER THE CONTRACT SHALL BE WARRANTED AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR, OR AS OTHERWISE SPECIFIED, FROM THE DATE OF FINAL ACCEPTANCE

11. MATERIAL AND EQUIPMENT IN THE WORK SHALL BE NEW, FIRST GRADE, FIRST CLASS, THE BEST OF THEIR RESPECTIVE KINDS, APPROPRIATE FOR THE APPLICATION AND ENVIRONMENT.

12. EQUIPMENT OR APPARATUS FOR ANY ONE SYSTEM SHALL BE THE PRODUCT OF ONE MANUFACTURER. THE TERM "MANUFACTURER" SHALL BE UNDERSTOOD AS APPLYING TO A COMPANY OF ESTABLISHED REPUTATION IN THE MANUFACTURE OF A PARTICULAR PIECE OF EQUIPMENT OR APPARATUS FROM PRODUCTS OF HIS OWN MAKE OR OTHERS, AND WHO ASSUMES FULL RESPONSIBILITY FOR PRODUCTS USED IN SUCH EQUIPMENT OR APPARATUS. THE MANUFACTURER MUST SUBMIT EVIDENCE OF FIVE (5) YEARS OR MORE MANUFACTURING EXPERIENCE IN THE PRODUCTION OF THESE PRODUCTS.

13. MATERIAL OR EQUIPMENT SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE, OR CATALOG NUMBER ARE DESIGNED TO ESTABLISH STANDARDS OF DESIRED QUALITY, STYLE, PERFORMANCE, ELECTRICAL, MECHANICAL AND PHYSICAL CHARACTERISTICS, AND DIMENSIONS.

14. WHERE CABLE PASSES THROUGH FIRE RATED STRUCTURES PROVIDE FIREPROOF FITTINGS.

15. RACEWAYS SHALL BE CONCEALED IN THE CONSTRUCTION EXCEPT AS OTHERWISE SPECIFIED OR SHOWN.

16. WHERE CONDUIT TERMINATES IN A CABINET, BOX OR AUXILIARY GUTTER, THE CONDUCTORS SHALL BE PROTECTED BY AN INSULATING BUSHING. LOCKNUTS SHALL BE PROVIDED BOTH INSIDE AND OUTSIDE THE ENCLOSURE.

17. A PULL WIRE SHALL BE INSTALLED IN EMPTY RACEWAYS. PULL WIRE SHALL BE 200 POUND TEST NYLON. BOTH ENDS SHALL BE IDENTIFIED BY MEANS OF LABELS OR TAGS, READING "PULL WIRE" AND GIVING THE ORIGINATION AND TERMINATION POINTS.

18. GENERALLY, WIRING (OTHER THAN EMERGENCY) SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT). CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.

EMERGENCY WIRING SHALL BE DONE WITH INSULATED COPPER CONDUCTORS IN CONTINUOUSLY GROUNDED METAL CONDUIT (EMT), SEPARATE FROM ALL OTHER WIRING AND RACEWAYS. CONDUCTORS AND RACEWAYS SHALL BE FIRST GRADE, INSTALLED CONCEALED IN THE CONSTRUCTION EXCEPT IN MECHANICAL OR ELECTRICAL SPACES, OPEN CONSTRUCTION AREAS OR WHERE SHOWN ON THE DRAWINGS.

19. MC CABLING MAY BE USED FOR CONCEALED BRANCH CIRCUIT WIRING ABOVE SUSPENDED CEILING AND INSIDE INTERIOR HOLLOW WALLS AND PARTITIONS. ALL HOME RUNS SHALL BE INSTALLED IN METAL CONDUIT (EMT) FROM CIRCUIT BREAKER PANELS TO EACH AREA.

20. RACEWAYS SHALL BE SUPPORTED TO COMPLY WITH NEC.

21. WHERE TELE/DATA OUTLETS ARE SHOWN, PROVIDE A SINGLE GANG BOX WITH BLANK PLATE AND CONDUIT (1" DIA. MINIMUM) WITH (2)CAT6E CABLES TO SERVER ROOM #104

22. NO "THROUGH-WALL" BOXES SHALL BE PERMITTED. WHERE DRAWINGS INDICATE BOXES BACK-TO-BACK, OR

SIMILAR LOCATIONS, SUCH BOXES SHALL BE INSTALLED SEPARATELY, SPACED MINIMUM SIX INCHES APART HORIZONTALLY.

23. FOR CONDUITS OR CABLES THAT PENETRATE FIRE RATED WALLS, FLOORS, PARTITIONS, OR SLABS, FILL AND SEAL SPACES BETWEEN THE CONDUITS OR CABLES AND THE SLEEVE WITH 2—PART INTUMESCENT FOAM SEALANT CREATING

SPACES BETWEEN THE CONDUITS OR CABLES AND THE SLEEVE WITH 2—PART INTUMESCENT FOAM SEALANT CREATING A FIRE STOP EQUAL TO OR EXCEEDING FIRE RATING OF CONSTRUCTION MATERIAL BEING PENETRATED. FIRE SEALANT SHALL PREVENT SPREAD OF FLAME, SMOKE, AIR AND WATER THROUGH THE SLEEVE AND SHALL PASS 3 HOUR TEST PER ASTMA E814 AND UL 1479. FIRE SEALANT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.

24. ALL CONDUITS AND FLEXIBLE METAL CONDUIT SHALL CONTAIN A GROUNDING CONDUCTOR. CONDUITS ARE NOT TO BE USED AS A GROUNDING CONDUCTOR.

25. ALL BRANCH CIRCUIT WIRING SUPPLYING NEW RECEPTACLES AND LIGHTING BEING INSTALLED SHALL BE #12 COPPER CONDUCTORS MINIMUM.

26. ALL NEW DEVICES AND RACEWAYS SHALL BE SPECIFICATION GRADE. NEW RECEPTACLE, SWITCH AND OTHER DEVICES AND COVER PLATES COLORS SHALL BE DETERMINED BY ARCHITECT. EMERGENCY RECEPTACLES SHALL BE RED WITH RED COVER PLATE, PERMANENTLY LABELED WITH PANEL BOARD AND BRANCH CIRCUIT NUMBER SUPPLYING RECEPTACLE. I.G. RECEPTACLES SHALL BE GREY.

27. IF REQUIRED, CONTRACTOR SHALL SUPPLY AND INSTALL ADDITIONAL BRANCH CIRCUITS (BREAKERS, RACEWAYS, WIRING, ETC...) AS REQUIRED TO COMPLETE THE PROJECT. CIRCUITS SHALL BE FED FROM EXISTING PANEL.

28. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED TO COMPLY WITH OSHA AND ANSI/ASME A13.1-2007 STANDARDS FOR THE IDENTIFICATION OF SYSTEMS. THE MARKINGS MUST IDENTIFY THE EQUIPMENT, IT'S ORIGIN AND VOLTAGE OF THE CONTENTS. ALL EQUIPMENT SHALL BE IDENTIFIED USING PHENOLIC NAMEPLATES AND LABELED IN ACCORDANCE WITH THE NOMENCLATURE USED ON THE DRAWINGS AND MUST BE COMPATIBLE WITH THE MIMS SYSTEM.

29. CONTRACTOR SHALL PROVIDE TO OWNER A DETAILED AS-BUILT DRAWING OF THE WORK PERFORMED. THIS PLAN SHALL INDICATE THE BRANCH CIRCUITS SUPPLYING EACH LIGHT AND DEVICE ASSOCIATED WITH THE WORK PERFORMED ON THIS PROJECT.

30. ALL SYSTEMS WIRING INCLUDING LOW VOLTAGE CONTROLS, FIRE ALARM, NURSE CALL, CCTV AND TELE/DATA SHALL BE INSTALLED IN CONDUIT AND/OR CABLE TRAY/DUCT SYSTEM AND SHALL BE SUPPORTED TO COMPLY WITH THE N.E.C.

31. CONTRACTOR SHALL PROVIDE AND AFFIX ARC FLASH WARNING LABELS (PER N.E.C. 110.16) AND AVAILABLE FAULT CURRENT LABELS (PER N.E.C. 110.24) TO ALL PANEL BOARDS.

32. SEE ARCHITECTURAL PLANS FOR LIGHTING FIXTURE NOT SPECIFIED IN THESE PLANS

33. FIRE ALARM SYSTEM IS NOT IN THE SCOPE OF THIS CONTRACT

WORKING	SPACE	CLEARANCES	AROUND	ELECTRICAL
		EQUIPMEN <sup>T</sup>	Τ	

NOMINAL VOLTAGE TO GROUND	MINIMUM CLEAR DISTANCE								
NOMINAL VOLTAGE TO GROUND	CONDITION 1	CONDITION 2	CONDITION 3						
0-150 VOLTS	914mm (3'-0")	914mm (3'-0")	914mm (3'-0")						
151-600 VOLTS	914mm (3'-0")	1.07m (3'-6")	1.22m (4'-0")						
601-2500 VOLTS	914mm (3'-0")	1.2m (4'-0")	1.5m (5'-0")						
2501-9000 VOLTS	1.2m (4'-0")	1.5m (5'-0")	1.8m (6'-0")						
9000-25000 VOLTS	1.5m (5'-0")	1.8m (6'-0")	2.8m (9'-0")						
_									

CONDITION 1 : EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE, OR EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE THAT ARE EFFECTIVELY GUARDED

BY INSULATING MATERIALS.

WHERE THE FOLLOWING CONDITIONS ARE AS FOLLOWS:

CONDITION 2 : EXPOSED LIVE PARTS ON ONE SIDE OF THE WORKING SPACE AND GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. CONCRETE, BRICK, OR TILE WALLS SHALL BE CONSIDERED AS GROUNDED.

CONDITION 3: EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORKING SPACE.

ENTRANCE TO AND EGRESS FROM WORKING SPACE:

PER N.E.C. 110.26 (C)(1) & (2):

1. MINIMUM REQUIRED: AT LEAST ONE ENTRANCE OF SUFFICIENT AREA SHALL BE PROVIDED TO GIVE ACCESS TO AND EGRESS FROM WORKING SPACE ABOUT ELECTRICAL EQUIPMENT.

2. LARGE EQUIPMENT: FOR EQUIPMENT RATED AT 1200 AMPERES OR MORE OVER 1.8m (6'-0") WIDE THAT CONTAINS OVERCURRENT DEVICES, SWITCHING DEVICES OR CONTROL DEVICES, THERE SHALL BE ONE ENTRANCE TO AND EGRESS FROM THE REQUIRED WORKING SPACE NOT LESS THAN 610mm (24") WIDE AND 2.0m (6'-6") HIGH AT EACH END OF THE WORKING SPACE. A SINGLE ENTRANCE TO AND EGRESS FROM THE REQUIRED WORKING SPACE SHALL BE PERMITTED WHERE EITHER OF THE FOLLOWING CONDITIONS ARE MET:

a.) WHERE THE LOCATION PERMITS A CONTINUOUS AND UNOBSTRUCTED WAY OF EGRESS TRAVEL, A SINGLE ENTRANCE TO THE WORKING SPACE SHALL BE PERMITTED.

b.) EXTRA WORKING SPACE. WHERE THE DEPTH OF THE WORKING SPACE IS TWICE THAT REQUIRED, A SINGLE ENTRANCE SHALL BE PERMITTED.

GENERAL ELECTRICAL NOTES:

1. ALL ELECTRICAL MATERIALS AND EQUIPMENT FOR THIS PROJECT SHALL BE NEW AND APPROVED BY UNDERWRITERS LABORATORY (U.L.) OR ANY OTHER NATIONALLY RECOGNIZED TESTING AGENCY.

2. UPON COMPLETION OF THE WORK, THE ENTIRE WIRING SYSTEM SHALL BE FREE FROM GROUNDS, SHORT CIRCUITS, OPENS, OVERLOADS, AND IMPROPER VOLTAGE.

3. LIGHTING AND POWER BRANCH CIRCUIT PANEL BOARDS SHALL BE BOLT—ON CIRCUIT BREAKER TYPE EQUIPPED WITH QUICK—MAKE, QUICK—BREAK, TRIP INDICATING, MOLDED CASE, THERMAL MAGNETIC CIRCUIT BREAKERS.

4. TWO OR THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP TYPE. SINGLE POLE BREAKER WITH YOKED HANDLE WILL NOT BE PERMITTED.

5. ALL LIGHTING AND POWER PANELS SHALL HAVE THEIR TOP AT 6'-6" ABOVE FINISHED FLOOR.

6. PANEL BOARDS SHALL BE SUITABLE FOR FLUSH MOUNTING OR SURFACE MOUNTED INSTALLATION AS REQUIRED.

7.PANEL BOARDS SHALL BE DEAD-FRONT, SAFETY-TYPE AND SHALL CONTAIN MAIN CIRCUIT BREAKERS, MAIN LUGS RATINGS, BRANCH CIRCUIT BREAKERS, SPACE AND BUSSES AS INDICATED ON DRAWINGS.

8. THE FOLLOWING CONVENTION SHALL BE USED:

FEEDER TYPE
200 FEEDER SIZE

9. WHERE SHORT CIRCUIT RATINGS ARE NOT INDICATED, PROVIDE 65 KAIC MINIMUM. AS ACTUAL FEEDER ROUTING MAY VARY, THE SHORT CIRCUIT RATING OF ANY LOAD CENTER MAY BE REDUCED TO 10 KAIC IF THE FEEDER LENGTH FROM THE UTILITY TRANSFORMER TO THE LOAD CENTER EXCEEDS 70

10. CONTRACTOR SHALL PROVIDE A NEATLY, TYPEWRITTEN PANEL SCHEDULE FOR ALL PANELS ASSOCIATED WITH HIS WORK. PANEL SCHEDULES SHALL CLEARLY NOTE LOADS SERVED, EXISTING CIRCUITS AND SPARES. AFFIX SCHEDULE TO BACK SIDE OF PANEL DOOR.

### BA

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NJ REGISTERED ARCHITECT No. AI 15840

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DE REGISTERED ARCHITECT No. S5-0007528 NY REGISTERED ARCHITECT No. 029608-1 CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

08012 RSEY

DC REGISTERED ARCHITECT No. ARC102373

PROJECT:

CAMDEN COUNTY
ATION & MODERNIZATION
REGAN BUILDING

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NO.	DESCRIPTION	DATE
DRAWING	TITLE:	

SINGLE LINE DIA
AND DETAILS

JOB NO:
CCIA2020-02

DATE:
OCTOBER 19, 2020

SCALE:
-AS NOTED

DESIGNED BY:
DM3/AAW/RH/BMG

DRAWN BY:
DM3/AAW/AM

CHECKED BY:
SMB/DM3/AAW

DRAWING NUMBER:

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			N	EUTRAL B	JS: 100%		V	OLTAGE:		208Y/120V, 3PH, 4W & G					NE	UTRAL BUS:	100%		1	OLTAGE:	20	08Y/120V , 3PH, 4W & G
PANEL NO.				GROUND B				MAINS:		225A		PANEL NO.				ROUND BUS:				MAINS:	22	25A
B1 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE	=	IS	OLATED (	GROUND B	IS: NO NG: FLUSH			IR. BKR.: RATING:	)	MLO		S2 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDULE	!	ISC	LATED GF	ROUND BUS: MOUNTING				CIR. BKR.: CRATING:	M	LO
CIR.	WIRE	BREAKER						BREAKER	WIRE		Ont.	CIR. NO. DESCRIPTION	WIRE	BREAKER AMPS	POLES		B (VA)	C (VA)		BREAKER AMPS	WIRE SIZE	DESCRIPTION
NO. DESCRIPTION  1 USED	SIZE #12	AMPS 20	1	900 2496		C (VA)	POLES 1	AMPS 20	SIZE #12	DESCRIPTION USED	NO. 2	1 USED	#12	20	1	A (VA) 720 720	D (VA)	C (VA)	1	20	#12	USED
3 USED	#12	20	1	2400	900 2496		1	20	#12	USED	4	3 USED	#12	20	1		720 720	700	1	20	#12	USED
5 USED	#12	20	1	720		900 360	1	20	#12	USED	6	5 USED	#12	20	1	720		720 720	1	20	#12	USED
7 USED 9 USED	#12	20	1	1500	720		1	20	#12 #12	USED	10	7 USED 9 USED	#12	20	1	500	0		1	20	#12 #12	USED
11 USED	#12	20	1		1500	900 1500	1	20	#12	USED	12	11 USED	#12	20	1		700	700 700	1	20	#12	USED
13 USED	#12	20	1	9000 1500		1500	1	20	#12	USED	14	13 USED	#12	20	1	700 1080		100	1	20	#12	RECS: ROOMS #101, #102 & #103
15 USED	#12	20	1		900 600	000	1	20	#12	USED	16	15 SPARE	#12	20	1		0 1080	0	1	20	#12	RECS: ROOMS #111 & #112
17 USED	#12	20	1	500		900 600	1	20	#12	USED	18	17 SPARE 19 SPARE	#12	20	1	0		360	1	20	#12 #12	RECS: BATHROOM #113  RECS: BATHROOM #118 & #119
19 USED 21 USED	#12	20	1	600			1	20	#12 #12	USED	20	21 SPARE	#12	20	1	360	0		1	20	#12	RECS: BATHROOM #120
23 USED	#12	20	1		600	900	1	20	#12	USED	24	23 SPARE	#12	20	1		360	0	1	20	#12	SPARE
25 USED	#12	20	1	900 600		000	1	20	#12	USED	26	25 SPARE	#12	20	1	0			1	20	#12	SPARE
27 USED	#12	20	1		900	900	1	20	#12	USED	28	27 SPARE	#12	20	1		0	0	1	20	#12	SPARE
29 USED 31 USED	#12	20	1	1500		0	1	20	#12 #12	USED	30	29 SPARE 31 SPARE	#12	20	1	0		Ö	1	20	#12	SPARE SPARE
33 GF-3	#12	20	1	4160	1200 4160		1	20	#12	USED	34	33 SPARE	#12	20	1	0	0		1	20	#12	SPARE
35 USED	#12	20	1		4100	0 720	1	20	#12	REC: RM#008	36	35 SPARE	#12	20	1		0	0	1	20	#12	SPARE
37 GF-2	#12	20	1	1200 360			1	20	#12	RECS: BATHROOM #013, #014	38	37 SPARE	#12	20	1	0	n		1	20	#12	SPARE
39 GF-4	#12	20	1		1200 200	1200	1	20	#12	GAS WATER HEATER		39 SPARE 41 SPARE	#12	20	1		700	0	1	20	#12	EF-3
41 GF-5 SUB TOTA	#12 .L	20	1	25936	16176	360	1	20	#12	REC: RM#002	42	SUB TOTAL				4800	4280	700 3900	1	20		EF-4 UB TOTAL
LEGEND: ** 6mA GROUND FAULT CIRCUIT  * 30mA GROUND FAULT CIRCUIT	BREAKER			ECTED LOAD	D 51.95	52 KVA .9 KVA		REMARKS:				LEGEND: ** 6mA GROUND FAULT CIRCUIT  * ARC FAULT COMBINATION CIRC				ND LOAD	12.98 13.0	KVA		REMARKS:		
# LOCK-ON CIRCUIT BREAKER H				IN AMPS		10 AMPS 3 PH						# LOCK-ON CIRCUIT BREAKER HA	ANDLE		MIN	I AMPS	38	AMPS 3 PH.				
				IEUTRAL B			١	OLTAGE:		208Y/120V, 3PH, 4W & G					NE	UTRAL BUS:	100%		,	OLTAGE:	2	08Y/120V, 3PH, 4W & G
PANEL NO. B2 (EXISTING)		IS		GROUND B GROUND B			MAIN	MAINS: CIR. BKR.:		225A MLO		PANEL NO. S3 (EXISTING)		ISC		ROUND BUS: ROUND BUS:			MAIN	MAINS: CIR. BKR.:		25A ILO
LIGHTING AND RECEPTACLE PANEL SCHEDULE	1	DDEAKE	<b>.</b> .	MOUNT	NG: FLUSH			RATING:	WIDE		CID	LIGHTING AND RECEPTACLE PANEL SCHEDULE				MOUNTING				C RATING:		
CIR. NO. DESCRIPTION	SIZE	BREAKE AMPS			,	C (VA)	POLES	BREAKER AMPS	SIZE	DESCRIPTION	CIR. NO.	CIR. NO. DESCRIPTION	WIRE	BREAKER AMPS	POLES	A (VA)	B (VA)	C (VA)	POLES	BREAKER AMPS	WIRE SIZE	DESCRIPTION
1 USED	#12	20	1	720 700	720		1	20	#12	USED	2	1 USED	#12	20	1	720 720			1	20	#12	USED
3 USED 5 USED	#12 #12	20	1		700	900 360	1	20	#12 #12	USED	6	3 USED	#12	20	1		720 720	720	1	20	#12	USED
7 USED	#12	20	1	900		360	1	20	#12	USED	8	5 USED 7 USED	#12 #12	20	1	720 720		720 720	1	20	#12 #12	USED
9 USED	#12	20	1	300	700 900		1	20	#12	USED	10	9 USED	#12	20	1	720	0 4		1	20	#12	USED
11 USED	#12	20	1	1200		700 360	1	20	#12	USED	12	11 USED	#12	20	1		300	700	1	20	#12	USED
13 WASHER 15 WASHER	#12	20	1	900			1	20	#12	USED	14	13 USED	#12	20	1	0	700		1	20	#12	USED
17 USED	#12 #12	20	1		1200 900	2500	1	20	#12 #12	USED	18	15 USED	#12	20	1		700 700	700	1	20	#12	USED
19 USED	#12	20	1	2500 2500		2500	- 1	20	#12	USED	20	17 USED 19 USED	#12	20	1	1000 <b>&lt;</b>		700	1	20	#12 #12	USED
21 WASHER	#12	20	1		1200 2500	0500	1	20	#12	USED	22	*21 RECS: BEDROOM #200,201,202,203,204,205		20	1	700	0 1080		1	20	#12	RECS: BEDROOM #214, 215 & #217
23 USED	#12	20	1	2500		2500 2500	1	20	#12	USED		*23 RECS: BEDROOM #207,208,209,210,211,212	#12	20	1			0	1	20	#12	SPARE
25 USED 27	#12	20	1	2500 3318	2070		2	40	#8	CU-4(4TON	26	*25 RECS: BEDROOMS #214,215 & 215	#12	20	1	720	0		1	20	#12	RECS: ROOMS #218 & #221
29 CU-1 (3 TON)	#8	40	2		3318	2070	1	20	#12	USED	30	*27 RECS: BEDROOMS#224 & #225 *29 RECS: BATHROOM #216	#12	20	1		1500	0	1	20	#12 #12	RECS: COMPUTERS #218& #221  RECS: WATER FOUNTAIN
31 USED	#12	20	1	0 3900			2	40	#8	CU-5(5 TON)	32	*31 RECS: BATHROOM #216	#12	20	1	0 360		500	1	20	#12	RECS: BATHROOM #223
CU-2 (3 TON)	#8	40	2		2070 3900	2070			110	33-3(3 1311)	34	33 GF-1	#12	20	1	300	1200 <b>3</b> 60		1	20	#12	RECS: BATHROOM #223
35				3318		3900	2	40	#8	CU-5(5 TON)	36	35 GF-3	#12		1	700		1200	1	20	#12	SPARE
39 CU-3(4 TON)	#8	40	2	3900	3318 1200		1	20	#12	GAS DRYER	40	37 EF-1 39 EF-2	#12	20	1	700	700		1	20	#12	SPARE SPARE
41 GAS DRYER					1200	1200 1200	1	20	#12	GAS DRYER	42	41 SPARE	#12	20	1		0	0	1	20	#12 #12	SPARE
SUB TOTA  LEGEND: ** 6ma ground fault circuit			CONN	2725 ECTED LO		22760 12 KVA		REMARKS		SUB TOTAL		SUB TOTAL			201115	6360	8180	5240		1,000	s	UB TOTAL
* 30mA GROUND FAULT CIRCUI # LOCK-ON CIRCUIT BREAKER H	T BREAKER		DEN	MAND LOAD	61	1.6 KVA 72 AMPS 3 PH						LEGEND: ** 6mA GROUND FAULT CIRCUIT  * ARC FAULT COMBINATION CIR	CUIT BRE		DEMA	ND LOAD	19.4	KVA KVA		REMARKS		REPLACE EXISTING 24 CKT PANEL WIT
# <b>3</b> 331 311 311 311 311 311 311 311 311 31				NEUTRAL E		727111110011		VOLTAGE:		208Y/120V, 3PH, 4W & G		# LOCK-ON CIRCUIT BREAKER H.	ANDLE		1	N AMPS UTRAL BUS:		AMPS 3 PH.		/OLTAGE:	2	08Y/120V, 3PH, 4W & G
PANEL NO.				GROUND E				MAINS:		225A		PANEL NO.				ROUND BUS:			,	MAINS:		00A
S1 (EXISTING) LIGHTING AND RECEPTACLE PANEL SCHEDUL	.E	Į:	SOLATED	GROUND E	US: NO Ing: Flush			CIR. BKR.: C RATING:		MLO		B3 LIGHTING AND RECEPTACLE PANEL SCHEDULE	:	ISC	DLATED GI	ROUND BUS: MOUNTING	10000			CIR. BKR.: CRATING:	M	ILO
CIR. NO. DESCRIPTION	WIRE SIZE	BREAKE		S A (V	) B (VA)	C (VA)	POLES	BREAKER	WIRE	DESCRIPTION	NO	CIR.	WIRE	BREAKER	1					BREAKER		
1 USED	#12	20	1	720 720		C (VA)	1	20	#12	USED	2	NO. DESCRIPTION  1 COFFEE MAKER	SIZE #12	AMPS 20	POLES 1	A (V A) 1000	B (VA)	C (VA)	POLES 1	AMPS 20	SIZE #12	DESCRIPTION
3 USED	#12	20	1		720 720	700	1	20	#12	USED	4	3 CRESCOR	#10	30	1	U	2000		1	20	#12	
5 USED	#12	20	1	720		720 720	1	20	#12	USED	6	5 EF-7	#12	20	1	000		700 0	1	20	#12	
7 USED 9 USED	#12	20	1	120	1200		1	20	#12 #12	USED	10	7 REFIGERATOR 9 KITCHEN RECEPTACIE	#12	20	1	800	1500		1	20	#12	
11 USED	#12	20	1		0	700 0	1	20	#12	USED	12	9 KITCHEN RECEPTACLE  11 KITCHEN RECEPTACLE	#12	20	1		0	1500	1	20	#12 #12	
13 USED	#12	20	1	700 700			1	20	#12	USED	14	13 KITCHEN RECEPTACLE	#12	20	1	1500 0		U	1	20	#12	
15 USED	#12	20	1		700 0	600	1	20	#12	SPARE	16	15 SPARE	#12	20	1		0		1	20	#12	
17* LIGHTING: #113,#113A	#12 #12	20	1	0		0	1	20	#12 #12	SPARE SPARE	20	17 SPARE	#12	20	1	0		0	1	20	#12	
21	#12	20	1	0	0		1	20	#12	SPARE	22	19 SPARE 21 SPARE	#12 #12	20	1	0	0		1	20	#12 #12	
23 SPARE	#12	20	1		U	0	1	20	#12	SPARE	24	23 SPARE	#12	20	1		0	0	1	20	#12	SPARE
25 SPARE	#12	20	1	0	•		1	20	#12	SPARE	26	25 SPARE	#12	20	1	0			1	20	#12	SPARE
27 SPARE	#12	20	1		0	0	1	20	#12	SPARE	28	27 SPARE	#12	20	1		0	0	1	20	#12	SPARE
29 SPARE 31 SPARE	#12	20	1	0		500	1	20	#12 #12	LIGHTING BATHROOM  SPARE	30*	29 SPARE	#12	20	1	0		0	1	20	#12	SPARE
33 SPARE	#12	20	1	0	0		1	20	#12	SPARE	34	31 SPARE 33 SPARE	#12 #12	20	1	0	0		1	20	#12 #12	SPARE SPARE
35 SPARE	#12	20	1			0 500	1	20	#12	SERVER	36	35 SPARE	#12	20	1		U	0	1	20	#12	SPARE
37 SPARE	#12	20	1	0 500	2000		1	20	#12	SERVER	38	37 SPARE	#12	20	1	0			1	20	#12	SPARE
39 41	#10	30	2		1508	2000	2	30	#10	DCU/DHP-1 (2 TON)	40	39 SPARE	#12	20	1		0	0	1	20	#12	
SUB TOTA				526		1508 7248				SUB TOTAL	72	41 SPARE SUB TOTAL	L			3300	3500	0 2200	1	20	#12 S	UB TOTAL
	T BREAKER		CON	VECTED LO	AD 19.3	356 KV A	T	REMARKS	<b>i:</b>		11	LEGEND: ** 6mA GROUND FAULT CIRCUIT	DDEALIE		CONNE	CTEDIOAD		KVA		REMARKS:		
LEGEND: ** 6mA GROUND FAULT CIRCUI'  * ARC FAULT COMBO CIRCUIT I  # LOCK-ON CIRCUIT BREAKER I	BREAKER			MAND LOA		9.4 KVA 56 AMPS 3 PI						* 30mA GROUND FAULT CIRCUIT				ND LOAD		KVA		KEWAKKS.		

	LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MOUNTING	QTY.	LAMPS  LAMP DESIGNATION	MANUFACTURER'S CATALOG NUMBER	WATTS	VOLTS	REMARKS				
В	NEW 2' X 2' SURFACE L.E.D. LIGHT FIXTURE WITH DIFFUSE MATTE ACRYLIC DIFFUSER	SURFACE	1	43W L.E.D.	H.E. WILLIAMS INC #ATS2-22-L30-835-D-DIM-UNV	43	120	-				
B1	NEW 2' X 2' RECESSED L.E.D. LIGHT FIXTURE WITH DIFFUSE MATTE ACRYLIC DIFFUSER	RECESSED	1	43W L.E.D.	H.E. WILLIAMS INC #AT2-22-L30-835-D-DIM-UNV	43	120					
A	NEW 2' X 4' SURFACE L.E.D. LIGHT FIXTURE WITH DIFFUSE MATTE ACRYLIC DIFFUSER	SURFACE	1	78W L.E.D.	H.E. WILLIAMS INC #ATS2-24-L55-835-D-DIM-UNV	78	120	-				
С	WALL LIGHT	SURFACE	1	8.2W L.E.D	EGLO GRAFIK #94598A	8.2	120					
Н	1' X 4' LED STRIP	SURFACE	1	13W L.E.D.	H.E. WILLIAMS INC #75S-4-L50/835-QS-DIM-UNV	13	120	_				
ЕМВ	EMERG BATTERY UNIT	WALL	1	(2)9W PAR36	LIGHT ALARMS 2-PG1/ELF3-LD1-M	18	120	-				
XA	WALL MOUNTED SINGLE FACE EXIT SIGN	WALL	1	L.E.D. INCLUDED	H.E. WILLIAMS #EXIT/EL-SF-R-MP-AN-EM-SDT	5	120	EXIT SIGN WITH INTEGRAL BATTERY AND SELF DIAGNOSTIC TESTING. PROVIDE CHEVRONS AS NOTED ON PLANS.				
ХВ	CEILING MOUNTED SINGLE FACE EXIT SIGN	CEILING	1	L.E.D. INCLUDED	H.E. WILLIAMS #EXIT/EL-SF-R-MP-AN-EM-SDT (SAME AS XA EXCEPT CEILING MOUNTED)	5	120	EXIT SIGN WITH INTEGRAL BATTERY AND SELF DIAGNOSTIC TESTING. PROVIDE CHEVRONS AS NOTED ON PLANS.				
хс	CEILING MOUNTED DOUBLE FACE EXIT SIGN	CEILING	1	L.E.D. INCLUDED	H.E. WILLIAMS #EXIT/EL-DF-R-MP-AN-EM-SDT	5	120	EXIT SIGN WITH INTEGRAL BATTERY AND SELF DIAGNOSTIC TESTING. PROVIDE CHEVRONS AS NOTED ON PLANS.				

NOTES: ELECTRICAL CONTRACTOR SHALL COORDINATE FIXTURES WITH CEILING TYPES AND PROVIDE MOUNTING HARDWARE AS REQUIRED. ALL EMERGENCY FIXTURES AND BATTERY UNITS SHALL BE CONNECTED AHEAD OF SWITCH LEG.

### GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

1. ALL FIXTURES SHALL BE PROVIDED BY OWNER AND INSTALLED BY EC.

2. PROVIDE ALL FIXTURES COMPLETE WITH LAMPS. ALL 4' FLUORESCENT LAMPS SHALL BE T8, RAPID START, 3500K, MINIMUM 2850 INITIAL LUMENS, UNLESS OTHERWISE NOTED.

3. PROVIDE ALL FLUORESCENT FIXTURES WILL FULL ELECTRONIC BALLASTS, ADVANCE OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

4. COORDINATE ALL LIGHT FIXTURES WITH CEILING, SOFFIT AND WALL CONSTRUCTION DETAILS AND VERIFY EXACT FIXTURE AND LAMP REQUIREMENTS PRIOR TO ORDERING FIXTURES. PRIOR TO ORDERING, FIELD VERIFY FIXTURE INSTALLATION REQUIREMENTS WITH ACTUAL CONSTRUCTION TO ENSURE FIXTURES WILL FIT IN SPACE(S) AS INDICATED ON THE DRAWINGS WITH ADEQUATE ACCESS FOR MAINTENANCE, LAMP REPLACEMENT AND EMERGENCY BATTERY PACK FOR FIXTURES SO EQUIPPED.

5. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF LIGHT FIXTURES ON EXTERIOR BUILDING ELEVATIONS. COORDINATE THE EXACT LOCATION OF LIGHT FIXTURES IN EQUIPMENT ROOMS TO AVOID INTERFERENCE WITH PIPING, DUCTWORK, EQUIPMENT, ETC.

6. LIGHT FIXTURES IN LAY-IN CEILINGS SHALL BE SUPPORTED INDEPENDENT OF CEILING GRID. SUPPORT TO BUILDING STRUCTURE ABOVE USING HANGING WIRE AND HARDENED STEEL CLIPS TO STRUCTURAL STEEL.

7. WALL MOUNTED FIXTURES SHALL COMPLY WITH ADA, ANSI A1176.1, SECTION 4.4 FOR PROTRUDING OBJECTS. VERIFY LOCAL CODE REQUIREMENTS WITH BUILDING OFFICIAL. 9 ALL EMERGENCY EM(B) LIGHTING BALLASTS SHALL BE BODINE BAC40EM6 OR EQUAL AND BE ABLE TO BE SWITCHED WHILE MAINTAINING CHARGING 8. CHARGON FIXTURE INDICATES NIGHT LIGHT. CONNECT TO CIRCUIT AHEAD OF SWITCH TO ALLOW CONTINUOUS OPERATION.



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RONALD E. HEIGLER, JR. PE

**DIRK MUITS III, AIA** 

NJ REGISTERED ARCHITECT No. AI 15840 PA REGISTERED ARCHITECT No. 402435 DE REGISTERED ARCHITECT No. S5-0007528

NY REGISTERED ARCHITECT No. 029608-1 CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068 DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

PROJECT:

MOL MODERNIZ BUILDING COUNTY Z W ATION CAMD

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10.	DESCRIPTION	DATE

**PANEL** 

DRAWING TITLE:

DRAWING NUMBER:

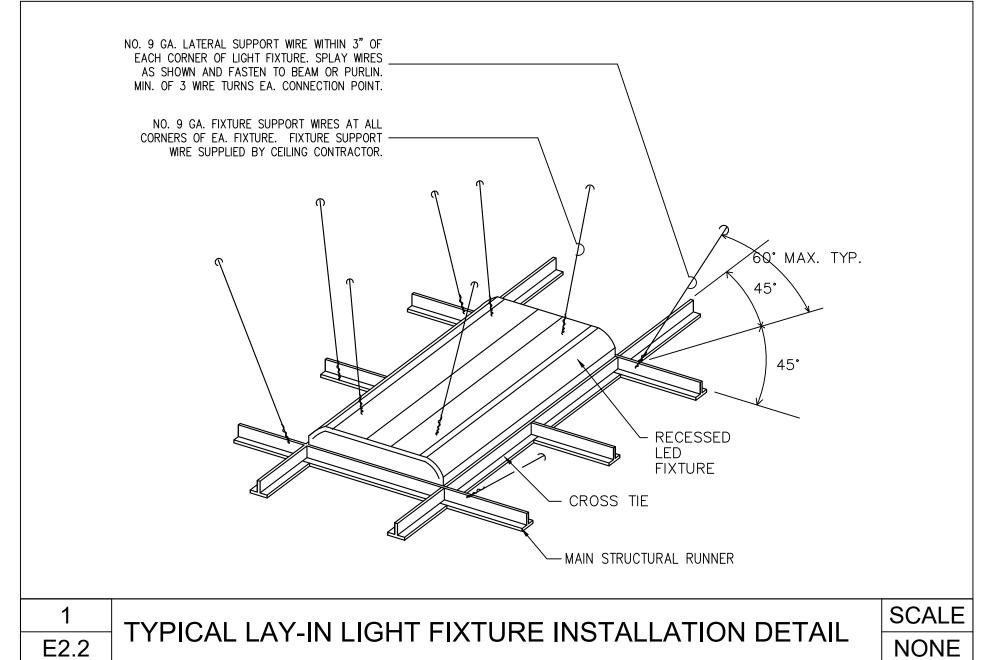
DESIGNED BY: DM3/AAW/RH/BMG CCIA2020-02 DM3/AAW/AM OCTOBER 19, 2020 CHECKED BY: SMB/DM3/AAW AS NOTED

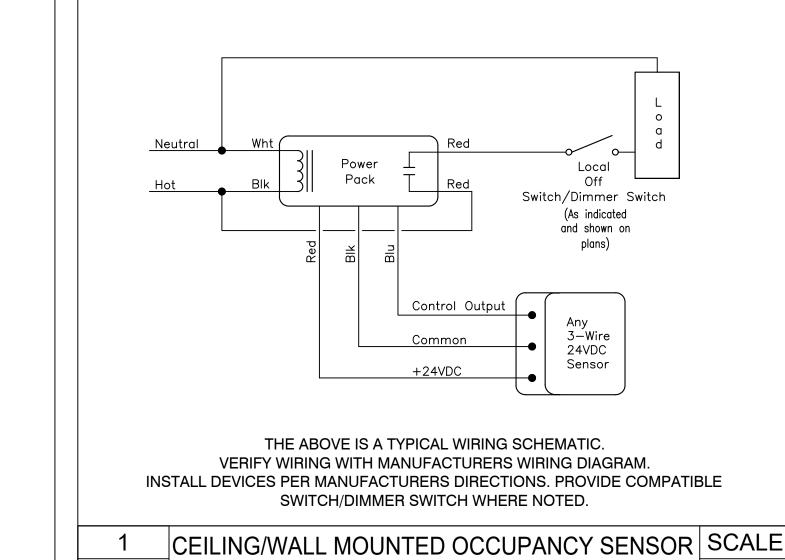
**SCHEDULES** 

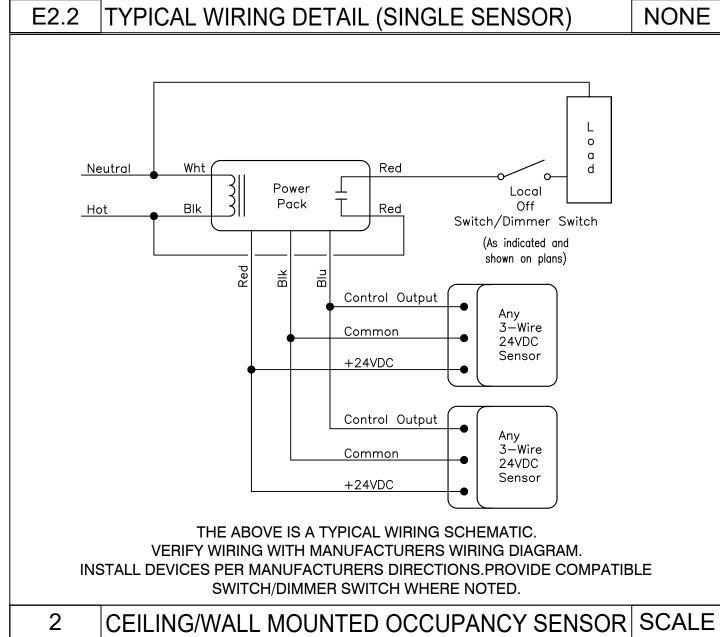
E-2.1

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LOAD CALCULA	TION PER	R N.E.C. F	REQUIRE	MENTS			
LOAD TYPE - LOADS ARE SHOWN IN VA EXCEPT WHERE NOTED	PANEL B1(E)	PANEL B2(E)	PANEL B3	PANEL S1(E)	PANEL S2(E)	PANEL S3(E)	TOTAL
CONTINUOUS LOAD: 25% OF CONTINUOUS LOAD: TOTAL CONTINUOUS LOAD:	2700 675 3375	1400 350 1750	0 0 0	3900 975 4875	2800 700 3500	5200 1300 6500	16000 4000 20000
NON CONTINUOUS LOAD: FIRST 10KW @ 100%: REMAINING KW AT 50%: TOTAL NON CONTINUOUS LOAD:	36132 10000 13066 23066	36160 10000 13080 23080	4500 0 0 4500	8440 0 0 8440	8780 0 0 8780	10780 10000 390 10390	104792 10000 47396 57396
MISCELLANEOUS LOAD:  HVAC LOAD:	0 13120	0 37152	3800 700	7016	0	0 3800	3800 63188
25% OF LARGEST HVAC MOTOR: TOTAL HVAC LOAD:	300 13420	1945 39097	300 1000	300 7316	300 1700	300 4100	300 63488
ADDITIONAL MISC EXISITNG LOADS	39861	63927	9300	0	13980	0	204723
MINIMUM REQUIRED FEEDER AMPACITY @208 VOLTS, 3 PHASE, 4 WIRE:	110.6	177.4	25.8	57.3	38.8	58.3	969.9







E2.2 TYPICAL WIRING DETAIL (MULTIPLE SENSORS) NONE



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### **DIRK MUITS III, AIA**

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CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068 DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

### AKELAND ROAD D, NEW JERSEY 08012 OUNTY, NEW JERSEY \* MODERNIZA BUILDING COUNTY Z W ATION & CAMD RENOV

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NO.	DESCRIPTION	DATE

**DETAILS** 

DESIGNED BY: DM3/AAW/RH/BMG CCIA2020-02 DRAWN BY: DM3/AAW/AM OCTOBER 19, 2020 AS NOTED

CHECKED BY: SMB/DM3/AAW DRAWING NUMBER: E-2.2

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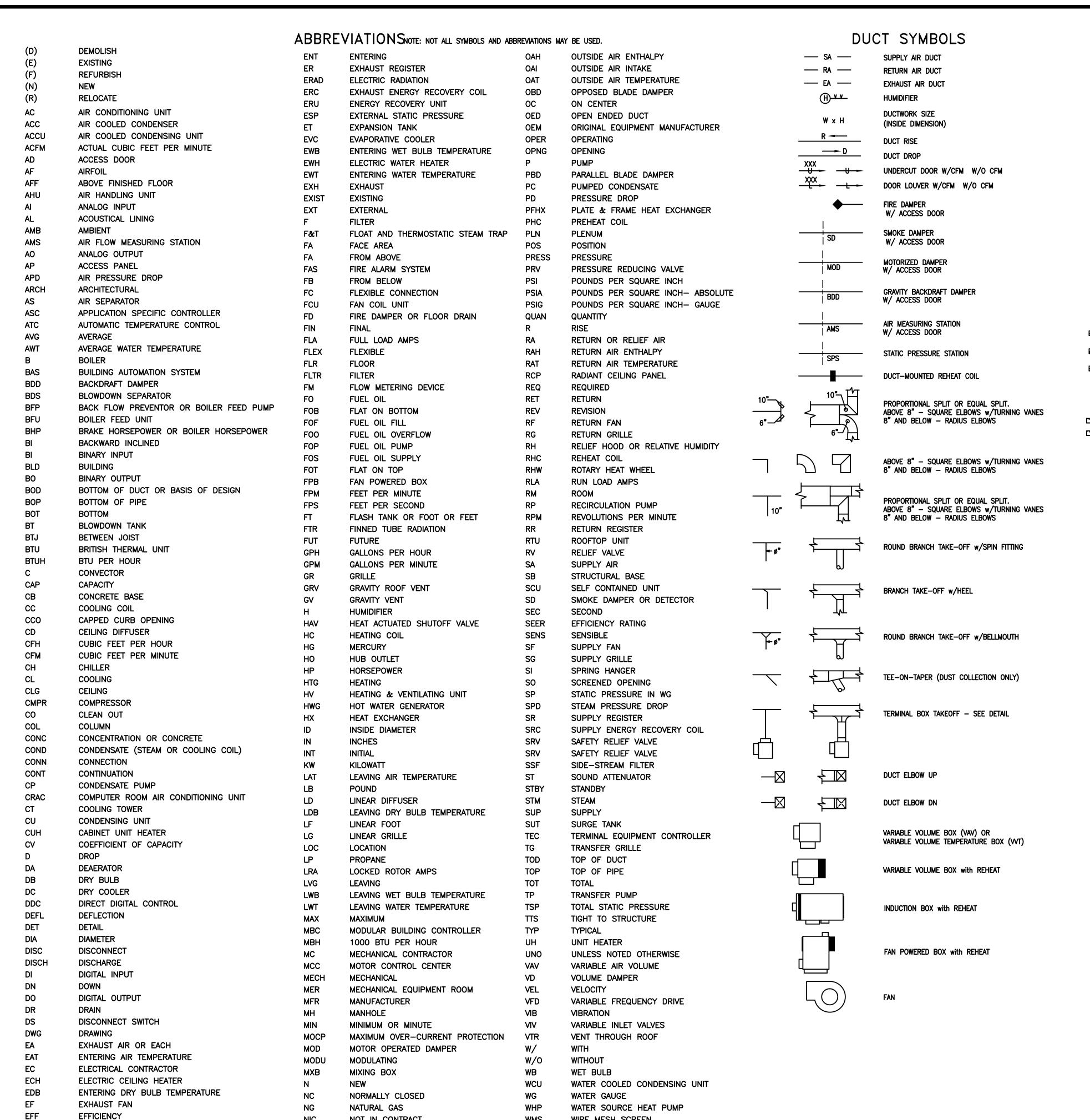
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1812 S. 22ND STREET PHILADELPHIA, PA 19145

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FAX: (215) 755-9319



WMS

WIRE MESH SCREEN

WATER PRESSURE DROP

NOT IN CONTRACT

NOT TO SCALE

OUTSIDE AIR

NTS

OA

NORMALLY OPEN OR NUMBER

**EFFICIENCY** 

**ELECTRIC** 

**ELEVATION** 

**EMERGENCY** 

EXHAUST GRILLE

EXPANSION JOINT

EQUIPMENT MANUFACTURER

EG

EJ

**ELEC** 

**ELEV** 

**EMER** 

EM

SUPPLY AIR CEILING DEVICE RETURN AIR CEILING DEVICE EXHAUST AIR CEILING DEVICE 3 WAY BLOW 2 WAY BLOW 1 WAY BLOW N CONCENTRIC DIFFUSER C CIRCULAR DIFFUSER D DRUM DIFFUSER F LINEAR SLOT FLOOR DIFFUSER G GRILLE J JET DIFFUSER L LOUVERED FACE DIFFUSER M LAMINAR FLOW DIFFUSER P PERFORATED DIFFUSER R REGISTER S LINEAR SLOT CEILING DIFFUSER W LINEAR SLOT WALL DIFFUSER LINEAR SLOT SUPPLY DIFFUSER (2 WAY BLOW) LINEAR SLOT SUPPLY DIFFUSER (1 WAY BLOW) LINEAR SLOT RETURN DIFFUSER SUPPLY REGISTER/GRILLE WALL MOUNTED RETURN REGISTER/GRILLE WALL MOUNTED LINEAR SLOT FLOOR SUPPLY DIFFUSER LINEAR SLOT FLOOR RETURN DIFFUSER MAIR DEVICE TYPE (CEILING DIFFUSER) 24X24 

AIR DEVICE LEGEND

### PIPE SYMBOLS BACK FLOW PREVENTOR ASSEMBLY DUPLEX STRAINER FIXED ORIFICE FLOW ELEMENT FLANGED SPOOL PIECE FLEXIBLE PIPING CONNECTOR FLOW CONTROL DEVICE \_\_\_\_FM FLOW METER (GAL) PIPE ANCHOR PIPE CAP, DUCT CAP, OR BLIND FLANGE PIPE GUIDE PIPE RISER UP AND DOWN OR PIPE RISER UP PIPE ELBOW DOWN OR BRANCH OFF TOP OF PIPE PIPE BRANCH CONNECTION OFF BOTTOM OF PIPE PRESSURE GAUGE W/ SNUBBER AND NEEDLE VALVE PRESSURE GAUGE W/

NJ REGISTERED ARCHITECT No. AI 15840 PA REGISTERED ARCHITECT No. 402435 DE REGISTERED ARCHITECT No. S5-0007528 NY REGISTERED ARCHITECT No. 029608-CT REGISTERED ARCHITECT No. ARI.10403 MD REGISTERED ARCHITECT No. 14068 DC REGISTERED ARCHITECT No. ARC10237

ALL DIMENSIONS MUST BE VERIFIED B Contractor and owner must be notified OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

INVERTED BUCKET STEAM TRAP

SIPHON AND NEEDLE VALVE

PUMP SUCTION DIFFUSER

CROWN OR INVERT AS SHOWN

STEAM TRAP ASSEMBLY, SEE DETAIL

NEEDLE VALVE

PUMP

AIR PURGER

STEAM TRAP

 $\longrightarrow$ 

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**—** 

CAPPED PRESSURE GAUGE TAP W/

PRESSURE/TEMPERATURE TEST PLUG

REDUCER OR INCREASER, CONCENTRIC

REDUCER OR INCREASER, ECCENTRIC STRAIGHT

THERMOMETER

UNION OR PAIR OF FLANGES VACUUM BREAKER

SHUTOFF VALVE AND CAP

AUTOMATIC AIR VENT W/

1/2" MANUAL AIR VENT 2 WAY CONTROL VALVE

3 WAY CONTROL VALVE

2 WAY CONTROL VALVE STATION 3 WAY CONTROL VALVE STATION

BALANCING VALVE

BOILER QUICK OPEN BLOWDOWN VALVE CHECK VALVE

GLOBE VALVE  $\longrightarrow$ 

DRAIN VALVE W/ CAPPED HOSE END

LOCK SHIELD SHUTOFF VALVE NEEDLE VALVE

PRESSURE REDUCING VALVE SAFETY RELIEF VALVE

SAFETY RELIEF VALVE W/ DRIP PAN ELBOW; SEE DETAILS SHUTOFF VALVE

HEAT ACTUATED SHUTOFF VALVE SOLENOID VALVE

> STOP CHECK VALVE Y-TYPE STRAINER

Y-TYPE STRAINER W/ TAPPING SIZE SHUTOFF VALVE TO 1" W/ CAPPED HOSE END OR NIPPLE

PIPE PITCHING DOWNWARD 1/8 INCH PER FT IN DIRECTION OF ARROW

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**DIRK MUITS III, AIA** 

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08012 RSEY

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508 LAK BLACKWOOD, CAMDEN COU

PROJECT:

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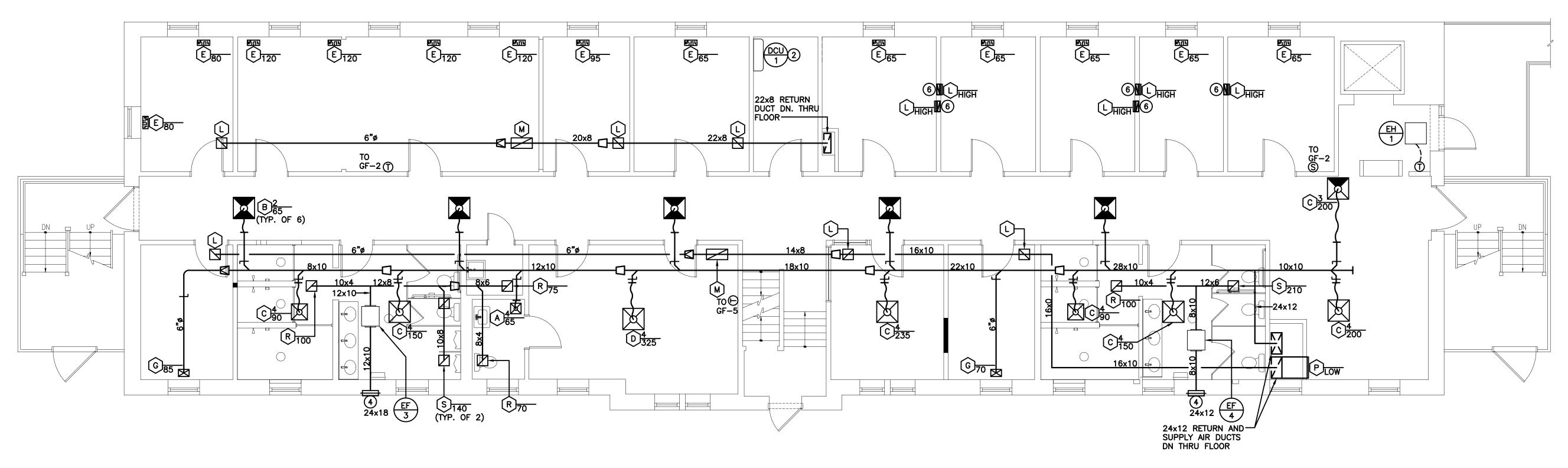
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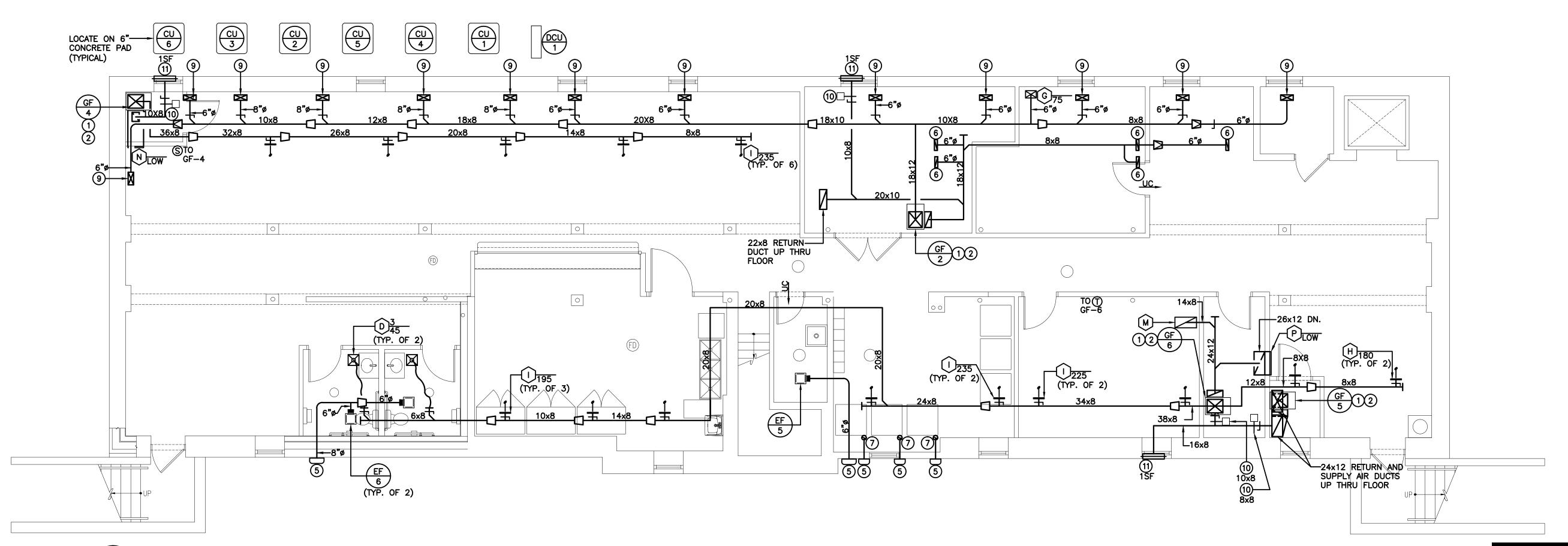
**COVER** SHEET

CCIA2020-02 OCTOBER 19, 2020 as noted DRAWING NUMBER:

M-1.0



1 FIRST FLOOR MECHANICAL PLAN
M-2.0 SCALE: 3/16"=1'-0"



BASEMENT MECHANICAL PLAN

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

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DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

## CAMDEN COUNTY OVATION & MODERNIZATION REGAN BUILDING 508 LAKELAND ROAD BLACKWOOD, NEW JERSEY 08012 CAMDEN COUNTY, NEW JERSEY

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MECHANICAL FLOOR PLANS

JOB NO:
CCIA2020-02

DATE:
OCTOBER 19, 2020

SCALE:
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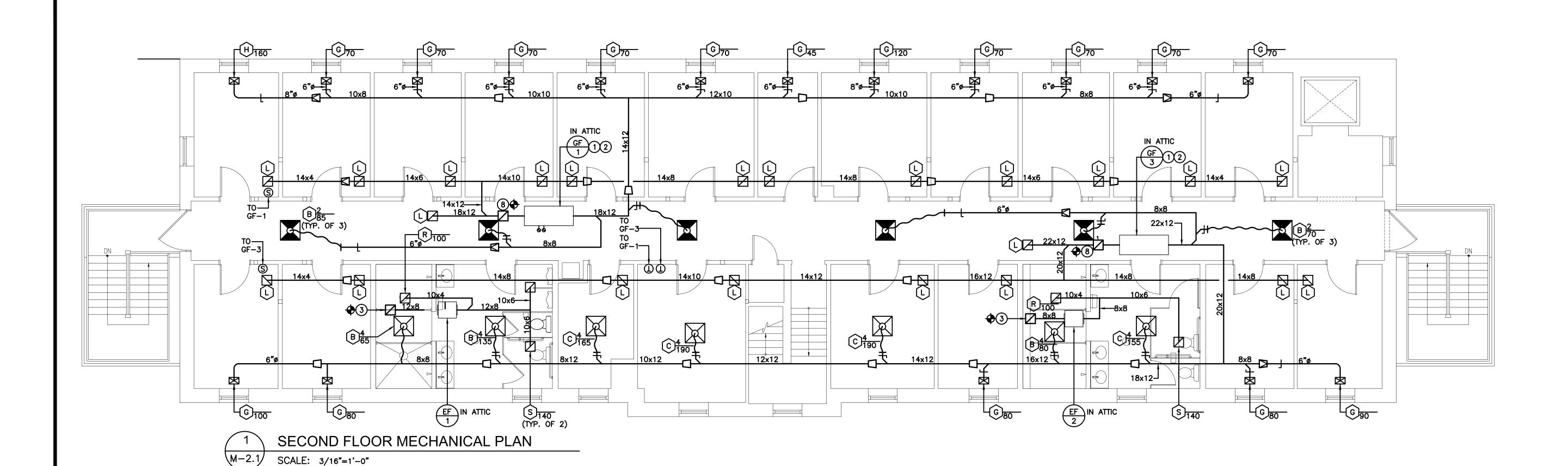
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DM3/AAW/AM

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### MECHANICAL SHEET NOTES:

- 1 VENT AND AIR INTAKE UP THRU ROOF WITH FACTORY SUPPLIED CONCENTRIC TERMINATION KIT. MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURES REQUIREMENTS (CONTRACTOR MAY RUN VENT AND INTAKE PIPES UP EXTERIOR AS PERMITTED BY ARCHITECT AND OWNER). PIPING IN ATTIC TO BE INSULATED TO PREVENT FREEZING.
- 2 CONDENSATE LINE FROM UNIT TO DRAIN. LINE TO BE FULL SIZE OF UNIT OPENING. DISCHARGE TO GRADE WITH SPLASH BLOCK WHERE DRAIN IS NOT PROVIDED.
- 3 CONNECT NEW EXHAUST DUCT TO EXISTING 10x8 ROOF OPENING. PROVIDE NEW ROOF CAP.
- (4) NEW LOUVER WITH SCREEN COVERING THRU EXISTING WALL. CONTRACTOR SHALL CUT, PATCH AND REPAIR EXISTING WAS AS REQUIRED TO MATCH ADJACENT AREA. SIZE AS SHOWN ON PLAN.
- 5 NEW WALL CAP THRU EXISTING WALL. CONTRACTOR SHALL CUT, PATCH AND REPAIR EXISTING AS REQUIRED TO MATCH ADJACENT AREA. SIZE AS SHOWN ON PLAN.
- 6 14x34" RETURN AIR DUCT THRU FLOOR, LOCATE BETWEEN EXISTING STUDS.
- (7) CONNECT VENT TO DRYER PER MANUFACTURES REQUIREMENTS.
- 8 CONNECT NEW OUTSIDE AIR DUCT TO EXISTING 10x10 ROOF OPENING. PROVIDE NEW ROOF CAP.
- 9 DUCT UP THRU FLOOR TO FLOOR REGISTER, DUCT TO BE FULL SIZE OF FLOOR REGISTER.
- (10) CONNECT OUTSIDE AIR DUCT TO RETURN AIR DUCT WITH MANUAL AND AUTOMATIC DAMPERS. INTERLOCK AUTOMATIC DAMPER WITH UNIT.
- 11) INSTALL NEW OUTSIDE AIR INTAKE LOUVER WITH SCREEN COVERING IN EXISTING WINDOW OPENING. CONTRACTOR SHALL REMOVE WINDOW, INSTALL NEW LOUVER AND PROVIDE NEW SHEETMETAL PANEL IN EXTERIOR AND INTERIOR OF UNUSED PORTION OF OPENING WITH R-19 BATT INSULATION. PAINT PANELS COLOR AS SELECTED BY ARCHITECT. MINIMUM FREE AREA OF LOUVER AS SHOWN ON PLAN.

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## CAMDEN COUNTY OVATION & MODERNIZATION REGAN BUILDING

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MECHANICAL FLOOR PLAN

JOB NO:
CCIA2020-02

DATE:
OCTOBER 19, 2020

SCALE:
AS NOTED

DRAWN BY:
DM3/AAW/AM

CHECKED BY:
SMB/DM3/AAW

DRAWING NUMBER:

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	HEATING		ELEC	TRICAL		MANUFACTURER	
NO.	CAPACITY KW	TYPE	VOLTS	PHASE	HERTZ	MODEL NUMBER	REMARKS
1	4.0	CLG. HEATER	208	3	60	QMARK SERIES FFCH	①

				AIR DEV	ICE SCH	HEDULE
NO.	NECK SIZE	FACE SIZE	CFM RANGE	TYPE	MANUFACTURER MODEL NUMBER	REMARKS
<u>A</u>	6 <b>"</b> ø	12x12	0-137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
<b>B</b>	6 <b>*ø</b>	24x24	0-137	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
©	8 <b>*</b> ø	24x24	138-244	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
<b>(a)</b>	10 <b>"</b> ø	24x24	245-327	SUPPLY AIR DIFFUSER	PRICE OR EQUAL	
Ē	10x4	10x4	0-135	SUPPLY AIR FLOOR REGISTER	PRICE OR EQUAL	
<b>F</b>						
<u>G</u>	10x6	10x6	0-145	SUPPLY AIR REGISTER	PRICE OR EQUAL	
<del>H</del>	1 <b>4</b> x6	1 <b>4</b> X6	146-190	SUPPLY AIR REGISTER	PRICE OR EQUAL	
①	16x6	16x6	191–260	SUPPLY AIR REGISTER	PRICE OR EQUAL	
Û	12x12	24x48	0-365	RETURN AIR GRILLE	PRICE OR EQUAL	
(M)	24x12	2 <b>4</b> x12	366-720	RETURN AIR GRILLE	PRICE OR EQUAL	
$\widehat{\mathbb{N}}$	24x24	24x24	721-1440	RETURN AIR GRILLE	PRICE OR EQUAL	
P	24x48	24x48	1441-2800	RETURN AIR GRILLE	PRICE OR EQUAL	
R	8x6	8x6	91–130	EXHAUST REGISTER	PRICE OR EQUAL	
(S)	10x8	10x8	131-230	EXHAUST REGISTER	PRICE OR EQUAL	

			Sl	JPPL'	Y/EXHA	UST FA	AN S	SCHE	EDUI	LE	SYMBOL EF SF
							ELEC	TRICAL	_	MANUFACTURER	NOTES
NO.	CFM	S.P.	RPM	H.P.	TYPE	DRIVE	VOLTS	PHASE	HERTZ	MODEL NUMBER	NOILS
1	380	0.50"	1541	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	123
2	240	0.50"	1398	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	123
3	525	0.50"	1784	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	123
4	310	0.50"	1451	1/4	INLINE CENTRIFUGAL	BELT	115	1	60	GREENHECK BCF-106-4	123
5	75	0.50"	750	21 WATTS	CLG. MTD. CENTRIFUGAL	DIRECT	115	1	60	GREENHECK SP-A390-VG	234
6	70	0.50"	744	21 WATTS	CLG. MTD. CENTRIFUGAL	DIRECT	115	1	60	GREENHECK SP-A390-VG	234

4 Interlock with light switch

2 REFRIGERANT PIPING (MAXIMUM LENGTH AND MINIMUM SIZE PER MANUFACTURES REQUIREMENTS)

(5) CONTRACTOR IS RESPONSIBLE FOR LOW VOLTAGE WIRING BETWEEN THE INDOOR AND OUTSIDE UNITS

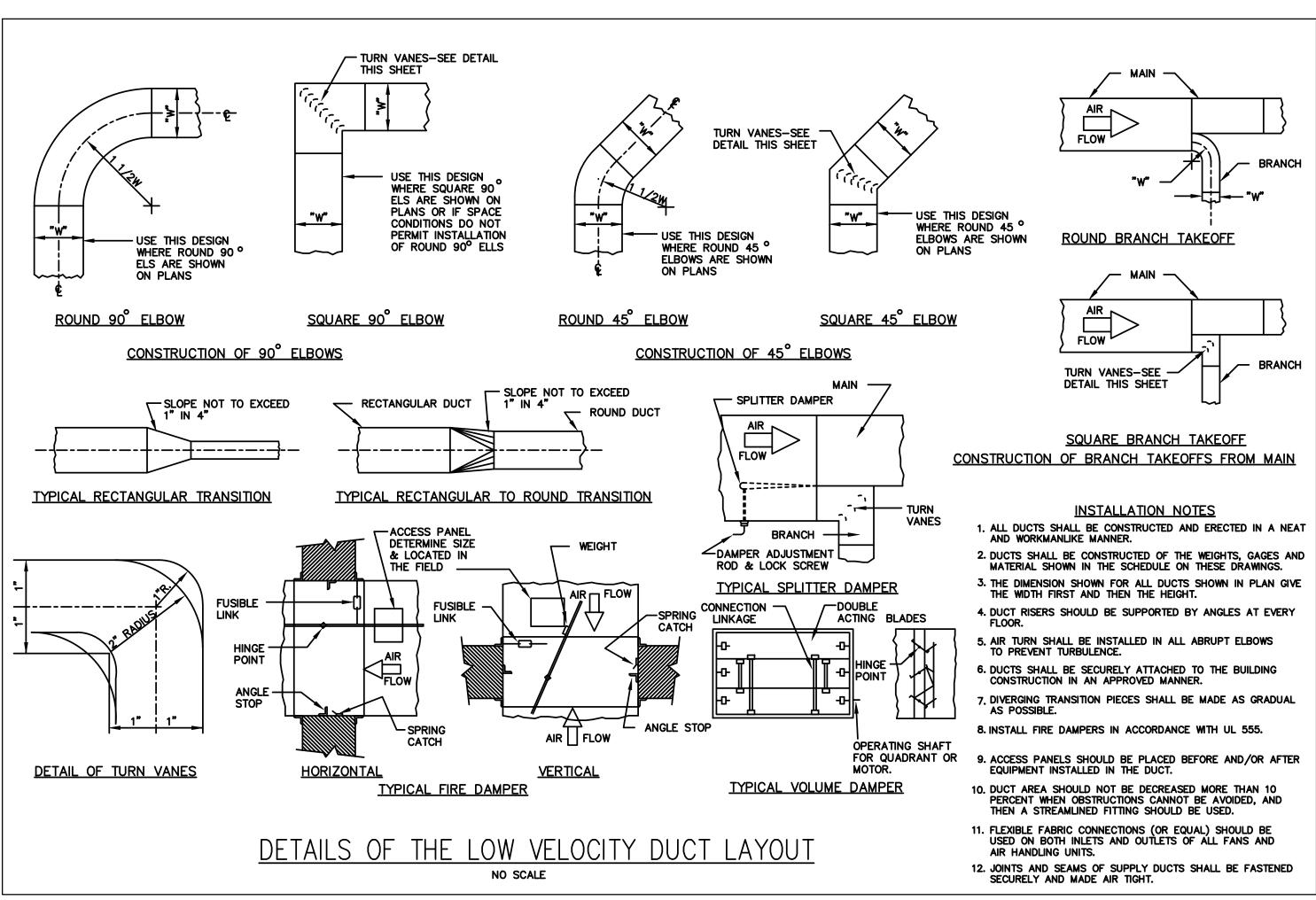
1 FAN TO RUN CONTINUOUS IN THE OCCUPIED MODE

(2) WITH SOLID STATE CONTROL FOR BALANCING

(3) WITH BACKDRAFT DAMPER

DU	JCTLES	SS SP	LIT	SY	STEN	M Al	R CONDITIONII	NG UNIT SCHEDULE	SYMBOL DAC DCU
	COOLING	HEATING		ELEC	CTRICAL		MANUFACTURER		
NO.	CAPY. BTUH	CAPY. BTUH	CFM	VOLTS	PHASE	HERTZ	MODEL NUMBER	NOTES	
DAC-1 DUC-1	24000	NA	705	208	1	60	MITSUBISHI INDOOR-PKA-A24KA7 OUTDOOR-PUY-A24NHA7	12345	
NOTES:		RAMMABLE T	 HERMO	STAT	(3)	PROVIDE	MATCHING CONDENSING UNIT	_	

	COOLING				HEA	TING	0.4	ELEC	CTRICAL		MANUFACTURER		
NO.	CAP'Y TONS	CFM	EXT. S.P.	FAN H.P.	INPUT CFH	OUTPUT MBH	O.A. CFM	VOLTS	PHASE	HERTZ	MODEL NUMBER	NOTES	
1	3.0	1200	0.50	3/4	39.0	37.8 58.3	190	115	1	60	TRANE INDOOR-S9X2B060 OUTDOOR-4TTA7036	12345	
2	3.0	1200	0.50	3/4	39.0 60.0	37.8 58.3	265	115	1	60	TRANE INDOOR-S9X2B060 OUTDOOR-4TTA7036	12345	
3	4.0	1600	0.50	3/4	52.0 80.0	50.4 77.2	155	115	1	60	TRANE INDOOR-S9X2B080 OUTDOOR-4TTA7048	12345	
4	4.0	1400	0.50	3/4	52.0 80.0	50.4 77.2	265	115	1	60	TRANE INDOOR-S9X2B080 OUTDOOR-4TTA7048	12345	
5	5.0	2000	0.50	1	52.0 80.0	50.4 77.2	195	115	1	60	TRANE INDOOR-S9X2C080 OUTDOOR-4TTA7060	12345	
6	5.0	2000	0.50	1	52.0 80.0	50.4 77.2	275	115	1	60	TRANE INDOOR-S9X2C080 OUTDOOR-4TTA7060	12345	
NOTE	S /ITH PROGRAM	MADIE T	HEDMO	CTAT W	TU DEMO	TE SENSO		) WITH	MATCHIA	IC CON	DENSING UNIT (208–	<b>3</b> 60)	



DUCT CON	STRUCT	ON MINIMUM SHEE	ET METAL THICKI	NESSES	
RECTANGULAR	DUCTS				
MAXIMUM SIZ (INCHES)	ĽE	STEEL (MINIMUM THICKN			
THROUGH 1 13 THROUGH 31 THROUGH 55 THROUGH OVER 84	30 54	0.022 INCH (26 0.028 INCH (24 0.034 INCH (22 0.040 INCH (20 0.052 INCH (18	GAGE, GALV.) GAGE, GALV.) GAGE, GALV.)		
ROUND DUCT	rs	0.0020 (			
	SPI	RAL SEAM DUCT	LONGITUDINAL SEA	M DUCT	FITTINGS
MAXIMUM SIZE (INCHES)	(MINIMUN	STEEL M THICKNESS, NOMINAL)	STEEL (MINIMUM THICKNESS	S, NOMINAL)	STEEL (MINIMUM THICKNESS, NOMINAL)
THROUGH 12 13 THROUGH 18 19 THROUGH 28 29 THROUGH 36 37 THROUGH 52	0.022 0.028 0.034	INCH (28 GAGE, GALV.) INCH (26 GAGE, GALV.) INCH (24 GAGE, GALV.) INCH (22 GAGE, GALV.) INCH (20 GAGE, GALV.)	0.034 INCH (22 G/	AGE, GALV.) AGE, GALV.) AGE, GALV.)	0.022 INCH (26 GAGE, GALV.) 0.028 INCH (24 GAGE, GALV.) 0.034 INCH (22 GAGE, GALV.) 0.040 INCH (20 GAGE, GALV.) 0.052 INCH (18 GAGE, GALV.)

		CLASS	DUCT MATERIAL	JOINING METHOD	INSUL TYPE & THICKNESS
PLY	+ 1 INCH	С	GALV. STL.	DUCTMATE	1.5" BATT
URN	- 1 INCH	С	GALV. STL.	DUCTMATE	1.5" BATT
ERAL EXHAUST	- 1 INCH	С	GALV. STL.	DUCTMATE	
ERAL EXHAUST  E: EXISTING DUCTWORK PROPERLY IN ACCOIPRESSURE RATING.	K REQUIRING DEM	OLITION SHALL BB	TERMINATED	DUCTMATE	

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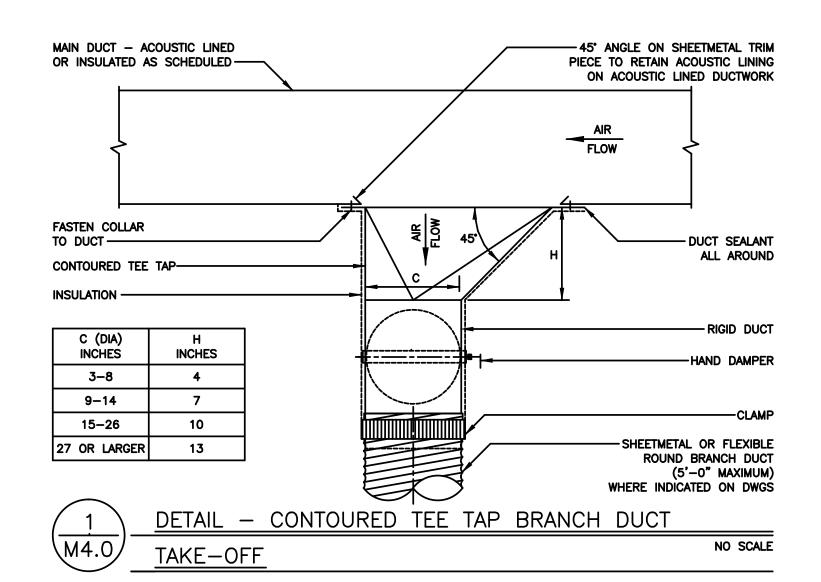
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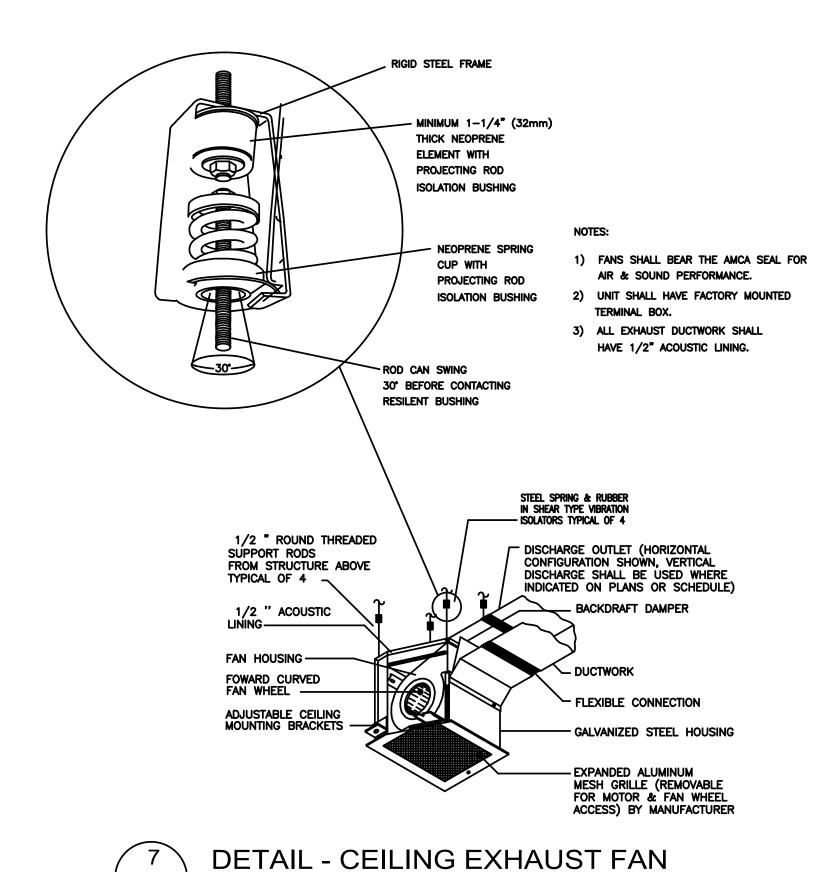
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DRAWING	DRAWING TITLE:			

MECHANICAL SCHEDULES AND NOTES

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CCIA2020-02	DM3/AAW/RH/BMG
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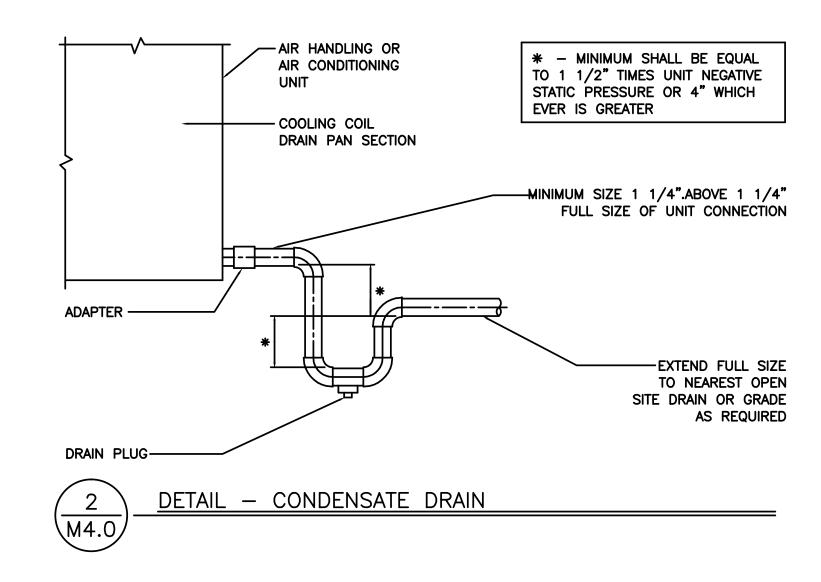
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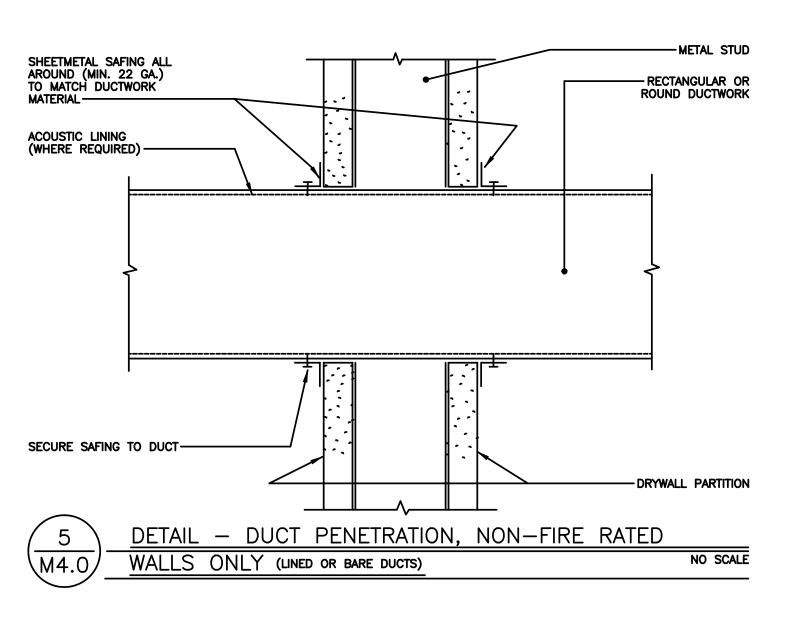


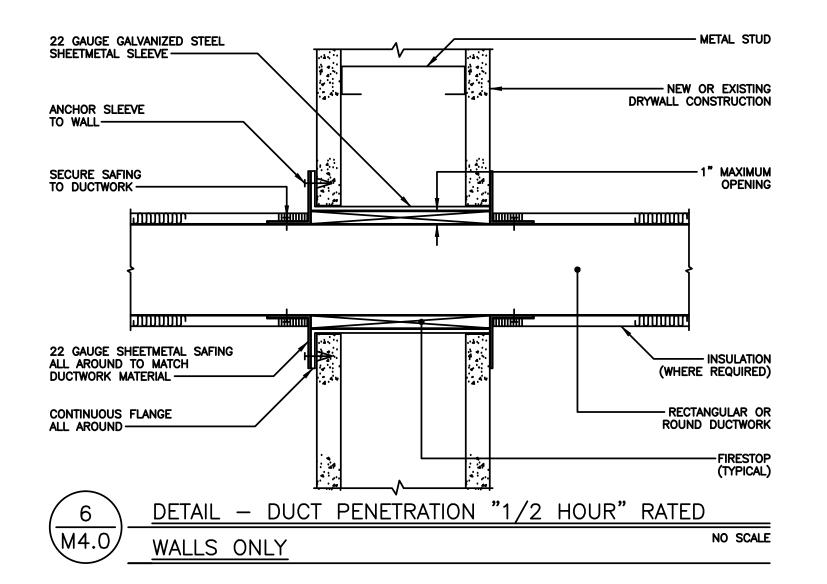


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SCALE: NONE









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KELAND ROAD , NEW JERSEY 08012 UNTY, NEW JERSEY

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PROJECT:

# CAMDEN COUNTY RENOVATION & MODERNIZATION REGAN BUILDING

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MECHANICAL DETAILS

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BHG CONSULTING ENGINEERS, INC.

1812 S. 22ND STREET
PHILADELPHIA, PA 19145
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	ABBREVIATIONS			PLUMBING	LEGEND
ACD A	ACCESS DOOR AIR	INV	INVERT		
ACL	ABOVE CEILING LEVEL	IWH	INSTANTANEOUS WATER HEATER	1 1 1	BUTTERFLY VALVE
AD	AREA DRAIN (EXPOSED TO RAIN)	JP	JOCKEY PUMP	<b>−1</b> 22-1	ANGLE GLOBE VALVE
AFF	ABOVE FINISHED FLOOR	2KS	KITCHEN SINK (2 COMPARTMENT)	,#	CAFETY OR RELIEF VALVE
AFR	ABOVE FIXTURE RIM	KS OR K	KITCHEN SINK	- 孝	SAFETY OR RELIEF VALVE
ARL	ABOVE ROOF LEVEL	LAV OR L	LAVATORY	$\bowtie$	GATE VALVE OR VALVE IN GENERAL
BCL	BELOW CEILING LEVEL	LP	LOW PRESSURE	ф	BALL VALVE
BCT .	BELOW COUNTER TOP	LS	LEVEL SENSOR	•	
BFL	BELOW FLOOR LEVEL	LWM	LAUNDRY WASHER MACHINE	$\bowtie$	GLOBE VALVE
BFP	BACKFLOW PREVENTER	M	METER	$\not \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	DALANCING MALVE
BLJ	BELOW JOISTS	MECH	MECHANICAL	Q	BALANCING VALVE
BP	BOOSTER PUMP	MH	MANHOLE	$\sim$	PRESSURE REDUCING VALVE
BWJ	BETWEEN JOISTS	MP	MEDIUM PRESSURE	$\bowtie$	(SPRING LOADED)
BLR	BOILER (STEAM ONLY)	MR	MOP RECEPTOR		PRESSURE REDUCING VALVE
BWV	BACKWATER VALVE	MV	MIXING VALVE	$\bowtie$	(PILOT TYPE)
C OR COND	CONDENSATE	N	NORTH	$\nabla$	FLOOR/DECK OR AREA DRAIN
CD	CONDENSATE DRAIN	NG	NATURAL GAS	ı	resory bear on Andre bruit
CF	CHEMICAL FEED	0	OXYGEN	₹	FUNNEL DRAIN
CHWS/R	CHILLED WATER SUPPLY/RETURN	O/H	OVERHEAD	$\Phi$	ROOF DRAIN
CP	CIRCULATOR PUMP	OVF	OVERFLOW  DESCRIPTION AND CONTROL OF THE PROPERTY OF THE PROPE	Υ	
S	CLINIC SINK	PI	PRESSURE INDICATOR	<del>c</del>	90 DEG. ELBOW FAR FLOW
DCW/HW	DOMESTIC COLD WATER/HOT WATER (POTABLE)	PRV	PRESSURE REDUCING VALVE	0-	90 DEG. ELBOW NEAR FLOW
HWS/R	DOMESTIC HOT WATER SUPPLY/RETURN	PW	PURE WATER	0-	
)D	DECK DRAIN	RD	ROOF DRAIN	-0-	TEE NEAR FLOW
)F	DRINKING FOUNTAIN	RH	RADIANT HEATER	<del>-</del>	TEE FAR FLOW
DFU	DRAIN FIXTURE UNIT	RM	ROOM	4	
DP	DUPLEX PUMP	RO	REVERSE OSMOSIS	$\bigvee$	PLUG VALVE
OR	DOOR	RTC	RUNNING TRAP WITH CLEANOUT	NI	
DSTP	DRY STANDPIPE	RV	RELIEF VALVE	Ŋ	BACKFLOW PREVENTER
V	DRY VENT	RWC	RAIN WATER CONDUCTOR		GARDEN HOSE/WASHDOWN
OVC	DRY VENT CONNECTION (ABOVE FIXTURE RIM LEVEL)	S	SOUTH OR STEAM	—	OR FIRE DEP. HOSE CONNECTION
DWH	DOMESTIC WATER HEATER	SAN	SANITARY/WASTE		— COLD WATER
D140.4	(POTABLE)	SF	SQUARE FOOT		
DWM -	DISH WASHER MACHINE	SFU	SUPPLY FIXTURE UNIT		— DOMESTIC HOT WATER
<u>-</u> /=\	EAST	SH OR S	SHOWER	——140°F——	- 140°F DOMESTIC HOT WATER
(E) -	EXISTING	SLV	SOLENOID VALVE		THE DOMESTIC HOT WHILK
EL -w	ELEVATION (STRUCTURAL HEIGHT)	SP	SUMP PUMP OR SEWAGE PUMP		<ul> <li>SANITARY SEWER – UNDER GROUND/SLAB/FLO</li> </ul>
EWC	EYE WASH ELECTRIC WATER COOLER	SS ST	SERVICE SINK OR LAUNDRY SINK OR STAINLESS STEEL STORM WATER	_	
EXP	EXPANSION TANK	STK	STACK	<u> </u>	— STORM WATER
FAI	FRESH AIR INTAKE	STM	STEAM		- VENT PIPING
-CO	FLOOR CLEANOUT	SV	SAFETY VALVE	_	
FCW	FILTERED COLD WATER	TD	TRENCH DRAIN OR THERMO DYNAMIC	—— F ——	— FIRE PROTECTION PIPE
FD	FLOOR DRAIN (NOT EXPOSED TO RAIN)	TEA	THERMAL EXPANSION ABSORBER	—— G ——	— GAS PIPE
THC	FIRE HOSE CONNECTION	TI	TEMPERATURE INDICATOR		
FND	FUNNEL DRAIN	TP	TRAP PRIMER	<b></b>	PIPE CLEANOUT (HORIZONTAL OR WALL)
FP	FIRE PUMP	TS	TEMPERATURE SENSOR		DIDE CLEANOLIT (CDADE OD ELOOD)
FS	FLOOR SINK	T	TUB OR TRAP	<del></del>	PIPE CLEANOUT (GRADE OR FLOOR)
-W	FIRE WATER	U/G	UNDERGROUND	<u> </u>	FUNNEL DRAIN
FWG	FOOD WASTE GRINDER	UR	URINAL	•	
т Т	FLOAT & THERMOSTATIC	V	VACUUM		REDUCER
-U	FIXTURE UNIT	VB	VACUUM BREAKER		NEDOCEN
SHC	GARDEN HOSE CONNECTION	VBD	VALVE BOX AND DRAIN	0	FLOOR DRAIN, AREA DRAIN OR FLOOR SINK
31 31	GREASE INTERCEPTOR	VR	VENT RISER (DRY VENT)		
SD	GUTTER DRAIN	VST	VENT STACK	П	TEMPERATURE INDICATOR
SWM	GLASS WASHER MACHINE	VT	VENT	Ψ	
ICO	HORIZONTAL CLEANOUT	VTR	VENT THROUGH ROOF	$\oslash$	PRESSURE INDICATOR
 	HAIR INTERCEPTOR	W	WEST	I	<del></del>
Р	HIGH PRESSURE	WBP	WATER BOOSTER PUMP		VALVE BOY AND DOARS
s S	HAND SINK	WC OR W	WATER CLOSET		VALVE BOX AND DRAIN
IWG	HOT WATER GENERATOR	WCO	WALL CLEANOUT		
-	(HYDRONIC SYSTEM)	WHA	WATER HAMMER ARRESTOR	<u>-</u>	VITOUEN ONLY WELL BIOLOGICAL
IWS/R	HOT WATER SUPPLY/RETURN	WP	WHIRLPOOL	$\neg$ $\vdash$	KITCHEN SINK WITH DISHWASHER MACHINE
_	(HYDRONIC SYSTEM)	WTSP	WET STANDPIPE	O	
В	INVERTED BUCKET	YV	YOKE VENT		
PS	IRON PIPE SIZE	YVR	YOKE VENT RISER		TARGET POINTING TO CONNECTION BETWEEN EXISTING AND NEW OR TO
140					
KS W	ISLAND KITCHEN SINK INDIRECT WASTE	ZV	ZONE VALVE		THE EXTENT OF DEMOLITION

SYMBOL

STORAGE

CAPACITY

GALLONS

100

GAS FIRED TANKLESS DOMESTIC WATER HEATER SCHEDULE

GAS

HEATING CAPY.

MANUFACTURE

BRADFORD WHITE EF-100T-300E-3N(A)

REMARKKS

AND MODEL

NUMBER

RECOVERY

AT 100°F

**GALLONS** 

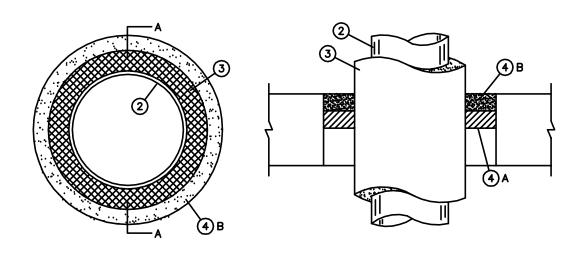
1 WITH P AND T REIELF VALVE, PIPE TO FLOOR DRAIN

2 AIR INTAKE AND VENT PER MANUFACTURES REQUIREMENTS

### PLUMBING NOTES

- 1. THE PRIORITY OF ILLUSTRATED PIPING ON PLANS IS TO SHOW CLEARLY THE SERVICE FROM ONE POINT TO ANOTHER WITH MINIMUM OR NO OBSTRUCTION BY THE BACKGROUND. PHYSICALLY THE PIPE RUNS ARE INSTALLED INSIDE WALLS, ABOVE CEILING OR WITHIN PIPE CHASES. ARCHITECT SHALL REVIEW AND APPROVE THE FINAL LOCATION OF PLUMBING COMPONENTS WHERE THEY AFFECT ARCHITECTURAL FINISHES.
- 2. UNLESS THE INSTALLATION IS DIMENSIONED, DRAWINGS ARE DIAGRAMMATIC AND INDICATING THE GENERAL ARRANGEMENT OF PIPING NETWORK TO BE PERFORMED. ALL MINOR DETAILS ARE NOT SHOWN ON PLANS OR SPECIFIED, BUT NECESSARY FOR THE PROPER INSTALLATION AND OPERATION OF ALL SYSTEMS, SHALL BE PROVIDED BY THE CONTRACTOR WITH NO ADDITIONAL CHARGES TO THE OWNER.
- 3. DOMESTIC WATER SERVICE TO FAUCETS OR EQUIPMENT (COLD AND HOT) SHALL BE 1/2" PIPE SIZE UNLESS NOTED OTHERWISE. ALL FIXTURES AND EQUIPMENT SHALL HAVE ONE FULL PORT AND PIPE SIZE SHUTOFF VALVE PER PIPE CONNECTION FOR MAINTENANCE PURPOSE. ALL DOMESTIC SERVICES SHALL BE INSULATED.
- 4. PLUMBING CONTRACTOR SHALL CHECK AND VERIFY ALL MEASUREMENTS, ILLUSTRATED PIPING LOCATIONS AND AREAS AFFECTED BY STRUCTURAL, MECHANICAL AND ELECTRICAL CONDITIONS PRIOR TO PRECEDING WITH DEMOLITION AND/OR NEW WORK. ANY CONFLICT OR DISCREPANCY BETWEEN SUBMITTED DRAWINGS AND FIELD CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEERS WITHOUT DELAY.
- 5. AVOID INSTALLING WATER SERVICE PIPE IN EXTERNAL WALL DUE TO FREEZING CONDITION. (ELECTRICAL HEAT TRACE FOR PIPING IS EXPENSIVE AND NOT RELIABLE, SHALL BE CONSIDERED ONLY AS A LAST RESOURCE.)
- 6. INSULATION ON WATER PIPE DOES NOT PREVENT FREEZING, IT ONLY EXTENDS THE SOLIDIFICATION TIME. WHERE WATER SERVICE IS NEAR EXTERIOR WALL, PROVIDE STUDDED PARTITION FLUSH TO THE EXTERIOR WALL. APPLY INSULATION ON THE EXTERIOR WALL SIDE OF THE PARTITION WITH NO INSULATION ON THE ROOM SIDE.
- 7. ALL SANITARY PIPING LAID BELOW SURFACE OF FREEZING TEMPERATURE SHALL HAVE MINIMUM 3'-0" COVER.

SYSTEM No. CAJ5001 F RATINGS -1-1/2, 2 AND 3 Hr (SEE ITEM 4) T RATINGS - 0, 1/2, 3/4, AND 1 Hr (SEE ITEM 4)



2. STEEL PIPE - NOM. 12 IN. DIAM. (OR SMALLER) SCHEDULE 10 (OR HEAVIRE) STEEL PIPE CENTERED IN THE OPENING AND RIGIDLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.

3. PIPE COVERING\* - NOM 1 OR 2 IN. THICK HOLLOW CYLINDRICAL HEAVY DENSITY (MIN.3.5 pcf) GLASS FIBER UNITS JACKETED ON THE OUTSIDE WITH AN ALL SERVICE JACKET. LONGITUDINAL JOINTS SEALED WITH METAL FASTENERS OF FACTORY — APPLIED SELF — SEALING LAP TAPE. TRANSVERSE JOINTS SECURED WITH METAL FASTENERS OR WITH BUTT STRIP TAPE SUPPLIED WITH THE PRODUCT. SEE PIPE AND EQUIPMENT COVERING — MATERIAL\* (BRGU) CATEGORY IN BUILDING MATERIAL FOR NAMES OF MANUFACTURERS. ANY PIPE COVERING MATERIAL MEETING THE SPECIFICATION AND BEARING THE UL CLASSIFICATION MARKING WITH A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKE DEVELOPED INDEX OF 50 OR LESS MAY BE USED.

4. FIRESTOP SYSTEM — THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:

A. PACKING MATERIAL — MIN. 1 IN. THICKNESS OF FIRMLY PACKED MINERAL WOOL BATT INSULATION USED AS A PERMANENT FORM. PACKING MATERIAL TO BE RECESSED FROM TOP SURFACE OF FLOOR OR FROM BOTH SURFACES OF WALL AS REQUIRED TO ACCOMMODATE THE REQUIRED THICKNESS OF CAULK FILL

MATERIAL (ITEM B). B. FILL, VOID OR CAVITY MATERIALS\* — CAULK — APPLIED TO FILL THE ANNULAR SPACE FLUSH WITH THE TOP SURFACE OF THE FLOOR OR FLUSH WITH BOTH SURFACES OF WALL. WHEN NOM. PIPE COVERING THICKNESS IS 2 IN., MIN. THICKNESS OF CAULK FILL MATERIAL IS 1 IN. THE HOURLY F AND T RATINGS OF THE FIREST SYSTEM ARE DEPENDENT UPON THE THICKNESS OF THE FLOOR OR WALL. THE THICKNESS OF PIPE COVERING MATERIAL, THE SIZE OF THE ANNULAR SPACE (BETWEEN THE PIPE COVERING MATERIAL) AND THE EDGE OF THE CIRCULAR THROUGH OPENING AND THE FILL MATERIAL TYPE, AS SHOWN IN THE FOLLOWING TABLES.

MIN. FLOOR OR WALL THICKNESS, IN.	MAXIMUM PIPE DIAMETER. IN.	NOM. PIPE COVERING THICKNESS. IN.	ANNULAR SPACE. IN.	CAULK FILL MATERIAL TYPE	F — RATING <u>HOUR</u>	T — RATING <u>Hour</u>
2-1/2*	4"	1"	5/8 TO 7/8	CP-25 N/S CP-25 S/L OR CP-25 WB	2	1
4-1/2"	4"	1"	3/4 TO 1	CP-25 N/S CP-25 S/L	3	1
4-1/2*	4"	2*	1-1/2 TO 2	CP-25 N/S CP-25 S/L OR CP-25 WB	2	1-1/2
2-1/2*	12 <b>"</b>	1*	5/8 TO 1	CP-25 N/S CP-25 S/L	2	0
2-1/2"	12 <b>"</b>	1"	1/2 TO 1-1/2	CP-25 WB+	2	1/2
4-1/2"	12 <b>"</b>	1*	1 TO 1-1/2	CP-25 N/S OR CP-25 S/L	2	1/2
4-1/2*	12*	1"	1 TO 1-1/2	CP-25 WB	1-1/2	3/4

MINNESOTA MINING & MFG. CO. - TYPE CP-25 N/S, CP-25 WB+ BEARING THE UL CLASSIFICATION MARKING.



### PLUMBING SHEET NOTES:

- (1) EXISTING DOMESTIC WATER LINES TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- (2) CONNECT EXISTING HOT AND COLD WATER LINES TO NEW DOMESTIC WATER HEATER. VERIFY EXACT LOCATION OF EXISTING WATER LINES IN FIELD AND PROTECT DURING CONSTRUCTION.
- (3) EXISTING PLUMBING FIXTURE TO REMAIN. PROTECT DURING CONSTRUCTION.
- (4) EXISTING SANITARY LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- 5 EXISTING VENT LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- (6) EXISTING GREASE INTERCEPTOR TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- (7) EXISTING NATURAL GAS LINE TO REMAIN. VERIFY EXACT LOCATION IN FIELD AND PROTECT DURING CONSTRUCTION.
- (8) GAS LINE TO GAS FIRED HEATING APPLIANCE WITH 6" SEDIMENT LEG AND GAS SHUT OFF VALVE.
- 9 PROVIDE "TRAP GUARDS" AS MANUFACTURED BY PROVENT ON ALL FLOOR DRAINS, UNLESS NOTED OTHERWISE.
- (10) PROVIDE A 3-WAY THERMOSTATIC VALVE WITH A DISCHARGE HOT WATER TEMPERATURE OF 120 DEG. F. (ADJUSTABLE).

### PLUMBING GENERAL NOTES:

- 1. CONTRACTOR SHALL SAWCUT EXISTING SLAB AS REQUIRED TO INSTALL NEW SANITARY BELOW SLAB. CONTRACTOR TO REPAIR SLAB PER DETAIL ON STRUCTURAL PLANS.
- 2. WHEREVER POSSIBLE, RUN NEW SANITARY LINES BETWEEN JOIST IN CAVITY.

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### DIRK MUITS III, AIA

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ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

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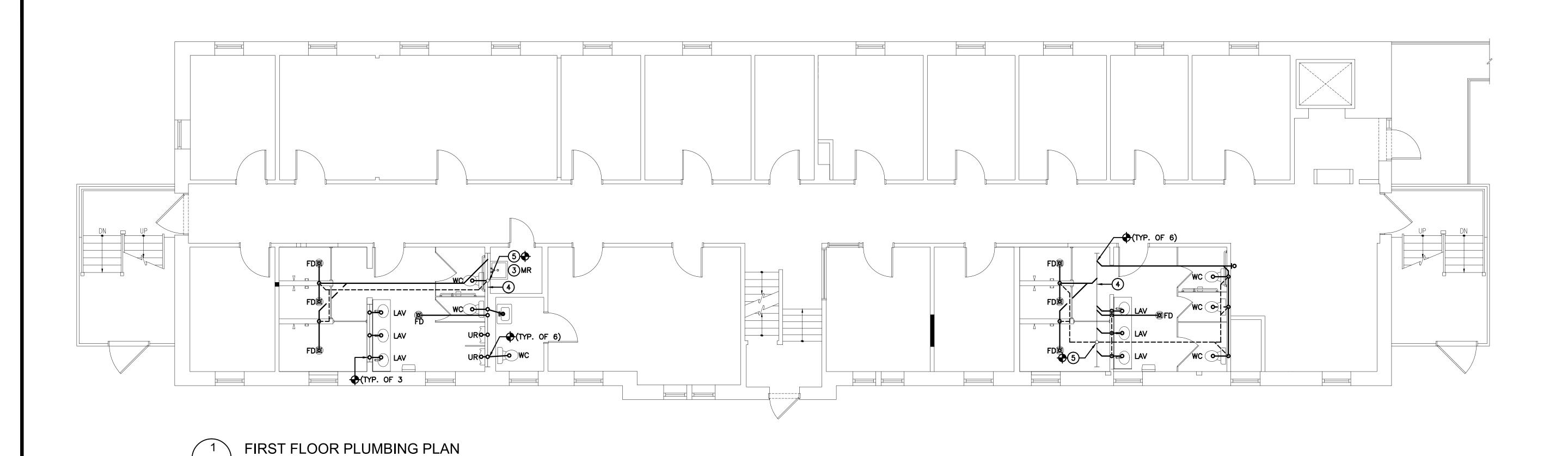
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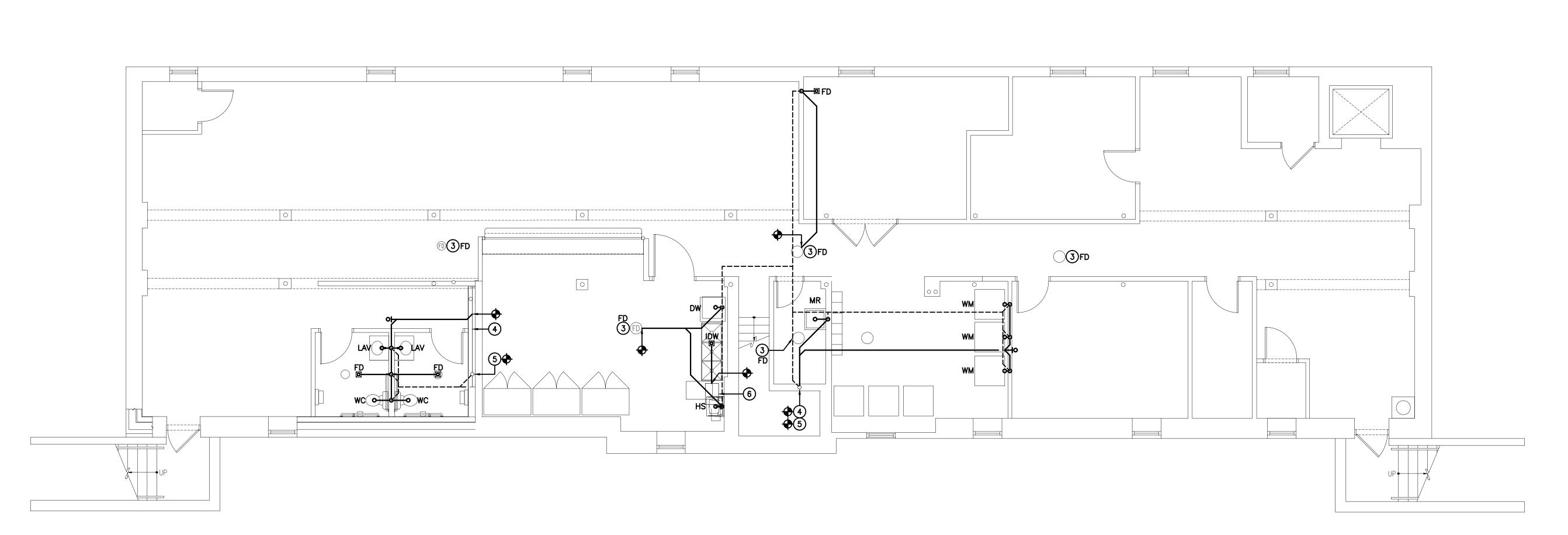
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**PLUMBING** COVER SHEET

CCIA2020-02 OCTOBER 19, 2020 as noted

DRAWING NUMBER:





BASEMENT PLUMBING PLAN

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

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

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NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
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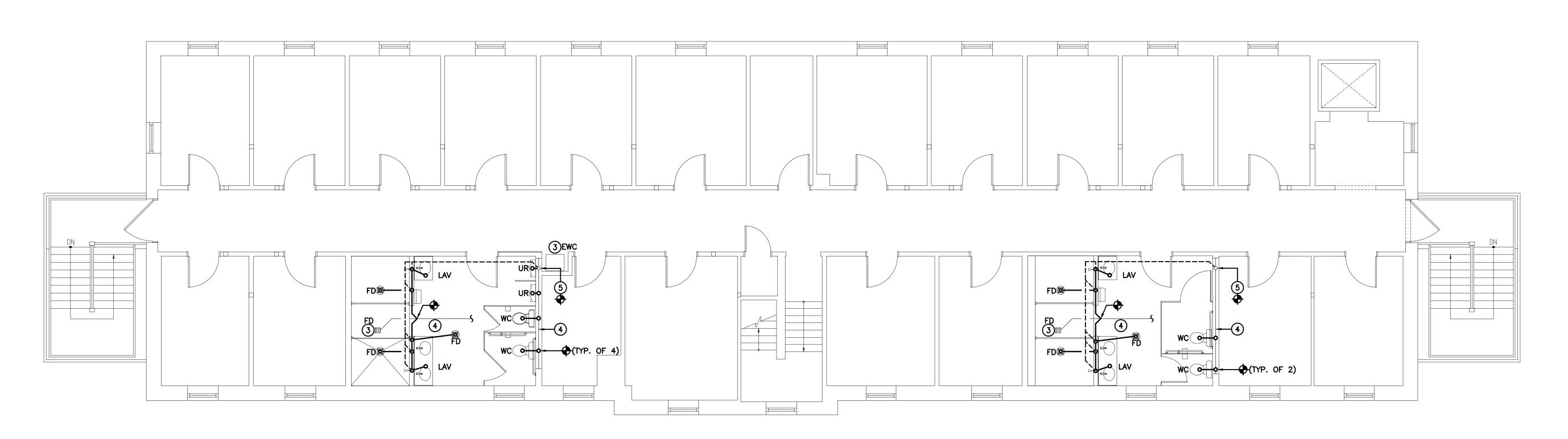
## CAMDEN COUNTY

DESCRIPTION

PLUMBING FLOOR PLANS WASTE & VENT

DATE: OCTOBER 19, 2020 SCALE: AS NOTED

P-2.0



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SECOND FLOOR PLUMBING PLAN

2.0 SCALE: 3/16"=1'-0"

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SEALS

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PROJECT:

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OCTOBER 19, 2020

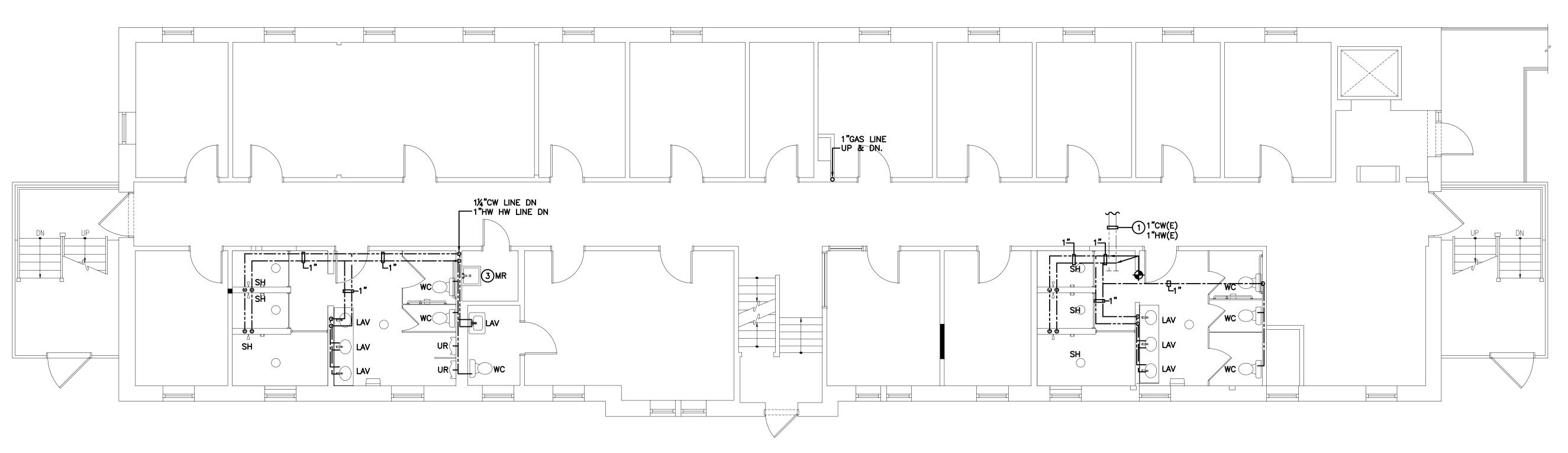
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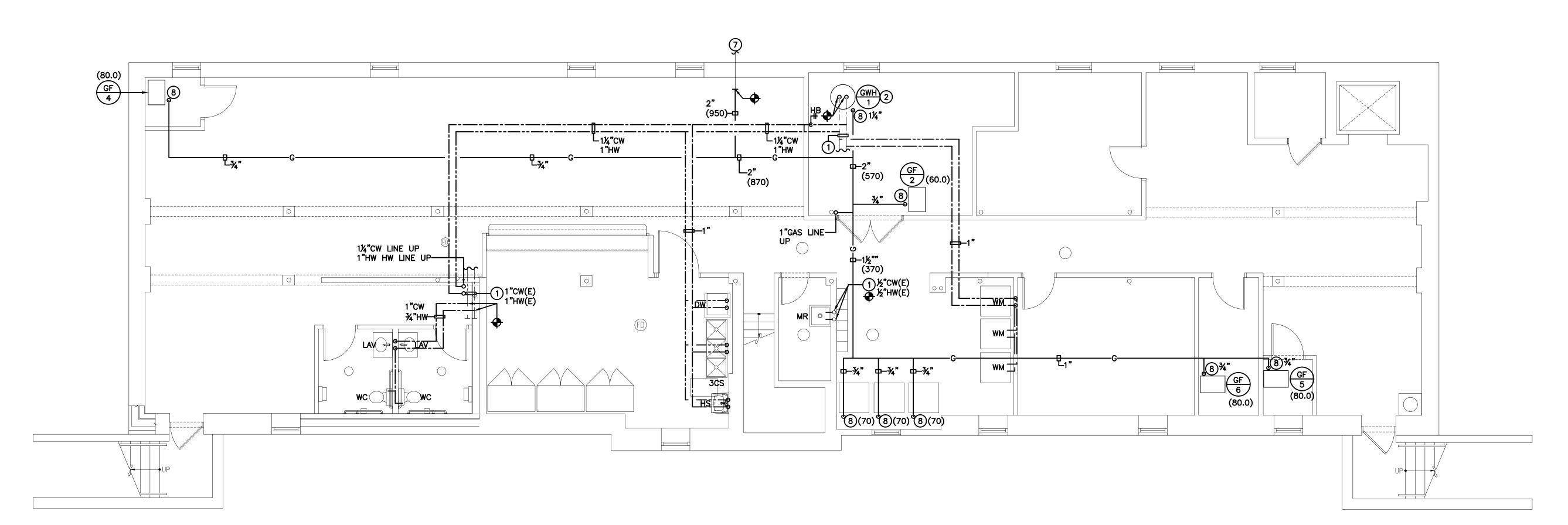
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FIRST FLOOR PLUMBING PLAN SCALE: 3/16"=1'-0"



BASEMENT PLUMBING PLAN

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

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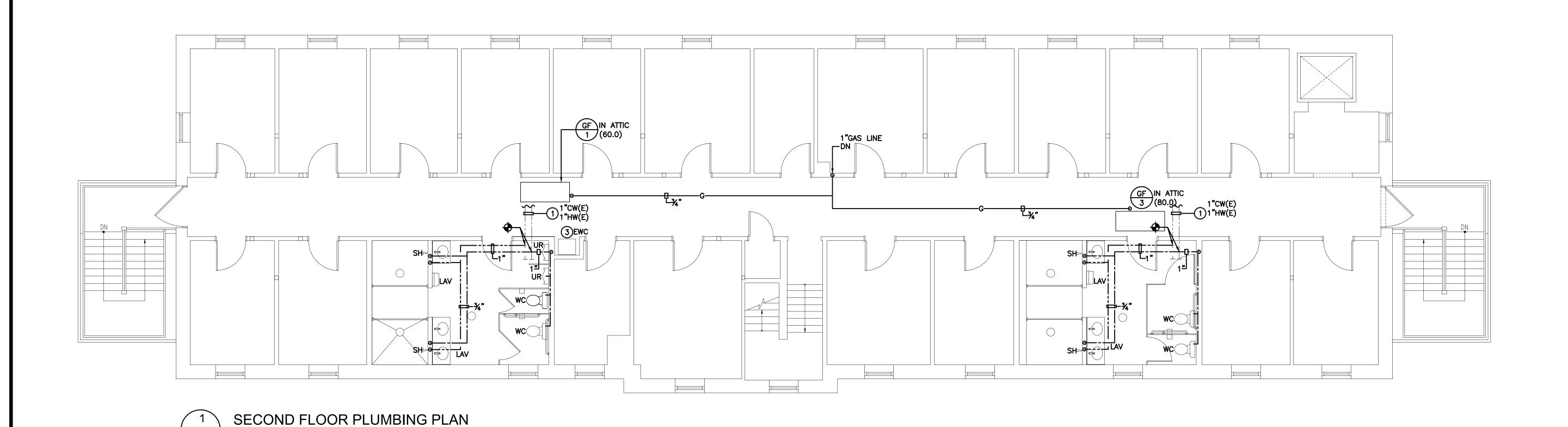
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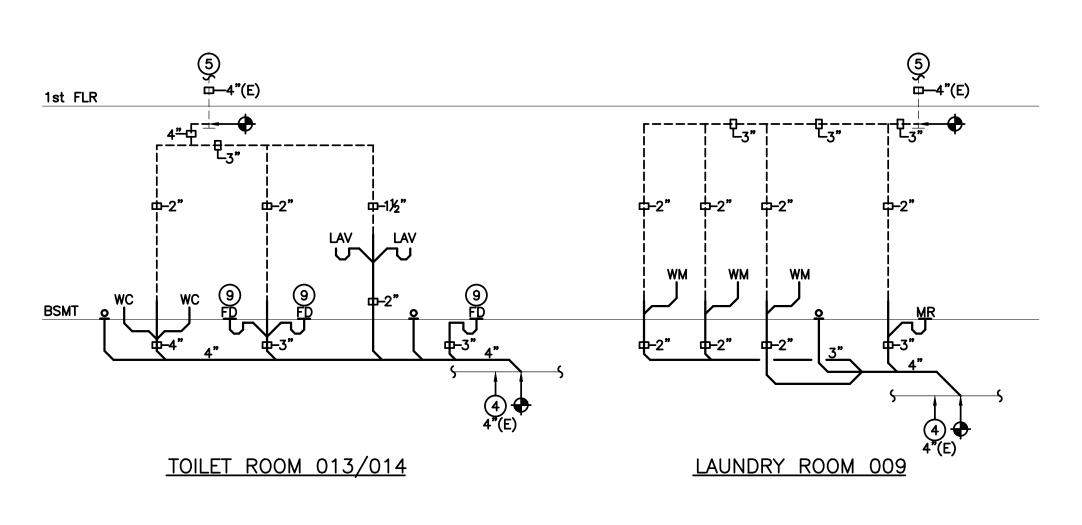
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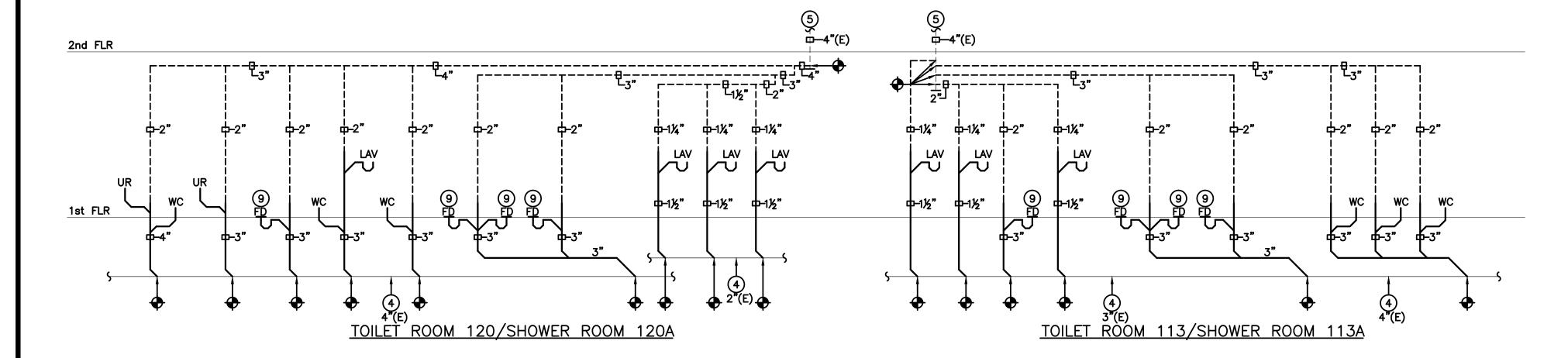
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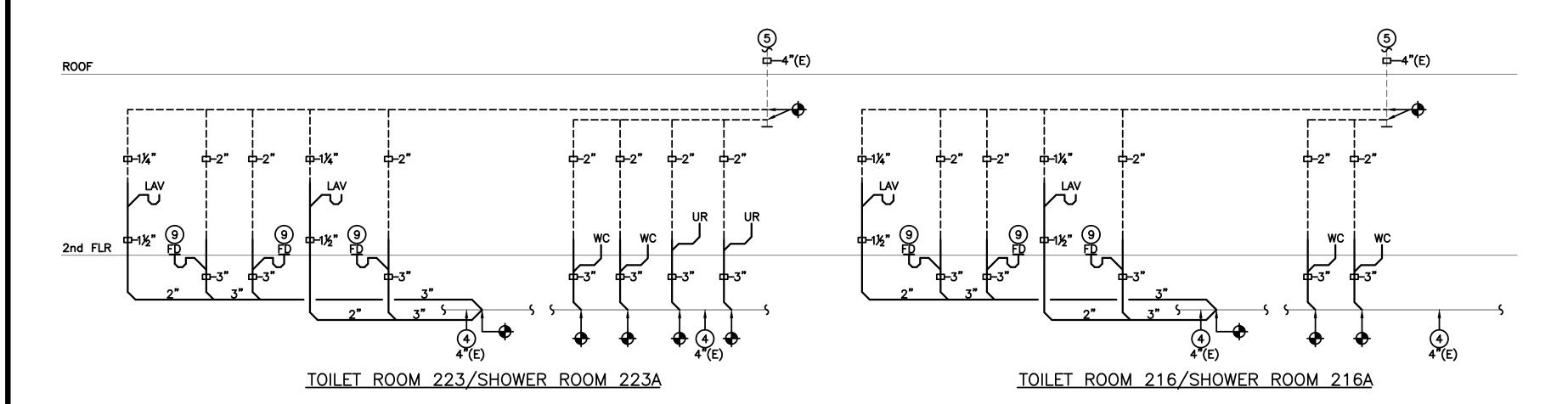


### SANITARY RISER DIAGRAMS

SCALE: NTS



### SANITARY RISER DIAGRAMS P-3.0SCALE: NTS





### SANITARY RISER DIAGRAMS

SCALE: NTS

BACH Associates, PC

ENGINEERS • ARCHITECTS • PLANNERS 304 White Horse Pike

Haddon Heights, New Jersey 08035 Tel: 856-546-8611 Fax: 856-546-8612 www.BachDesignGroup.com

### **DIRK MUITS III, AIA**

NJ REGISTERED ARCHITECT No. AI 15840
PA REGISTERED ARCHITECT No. 402435
DE REGISTERED ARCHITECT No. S5-0007528
NY REGISTERED ARCHITECT No. 029608-1
CT REGISTERED ARCHITECT No. ARI.10403
MD REGISTERED ARCHITECT No. 14068
DC REGISTERED ARCHITECT No. ARC102373

ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR AND OWNER MUST BE NOTIFIED OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

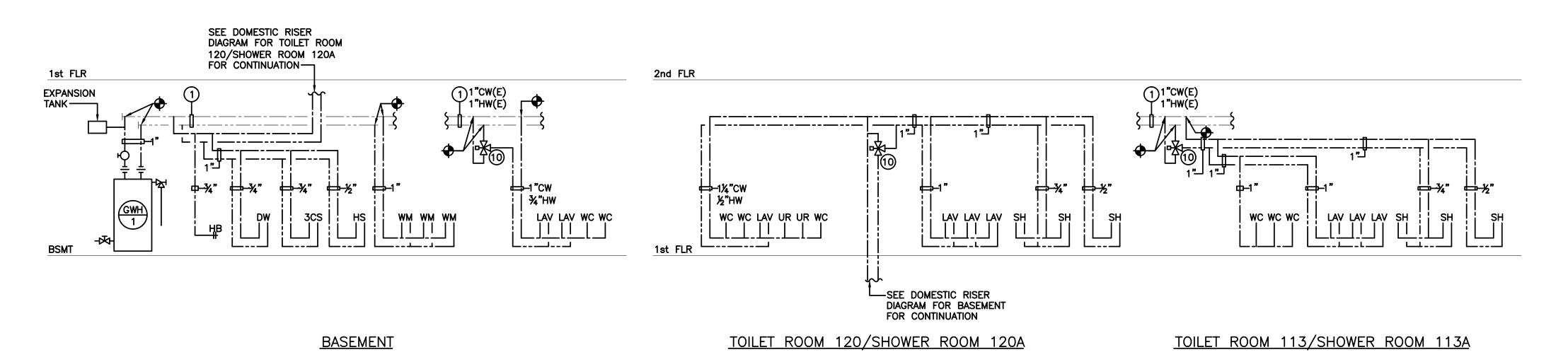
AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM					
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SANHARY **RISER DIAGRAMS** 

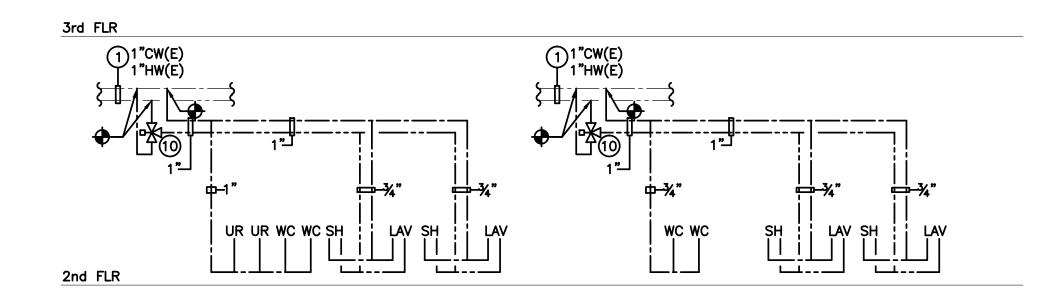
JOB NO: CCIA2020-02

OCTOBER 19, 2020 1812 S. 22ND STREET PHILADELPHIA, PA 19145 SCALE: as noted PHONE: (215) 755-9318 FAX: (215) 755-9319

P-3.0



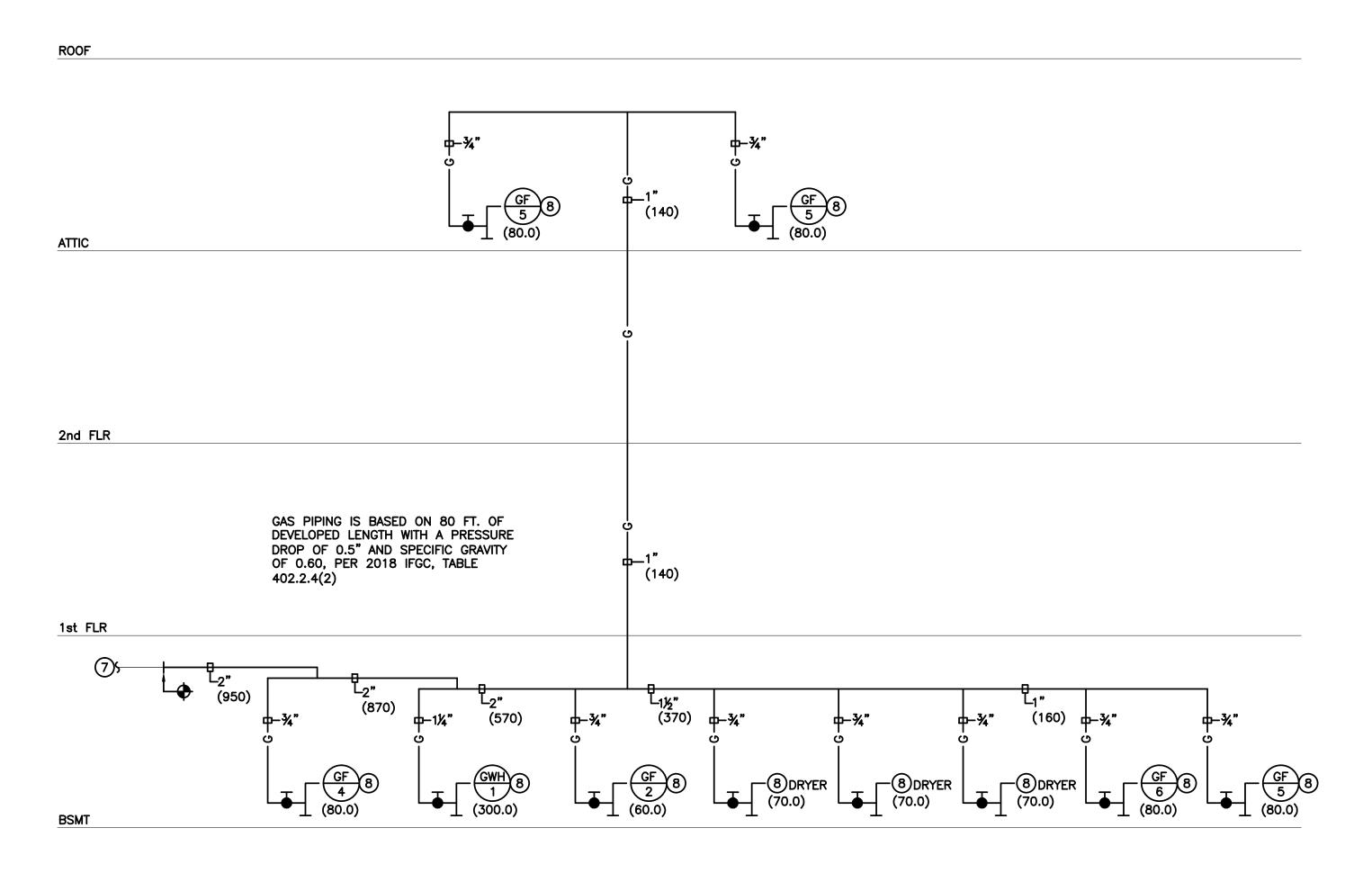
DOMESTIC WATER RISER DIAGRAMS \P-3.1 SCALE: NTS



TOILET ROOM 223/SHOWER ROOM 223A

TOILET ROOM 216/SHOWER ROOM 216A

DOMESTIC WATER RISER DIAGRAMS P-3.1/ SCALE: NTS



GAS PIPING RISER DIAGRAMS SCALE: NTS

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DC REGISTERED ARCHITECT No. ARC102373

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PROJECT:

### **ATION** MODERNIZ/ BUILDING CAMDEN COUNTY VATION 8 RENO

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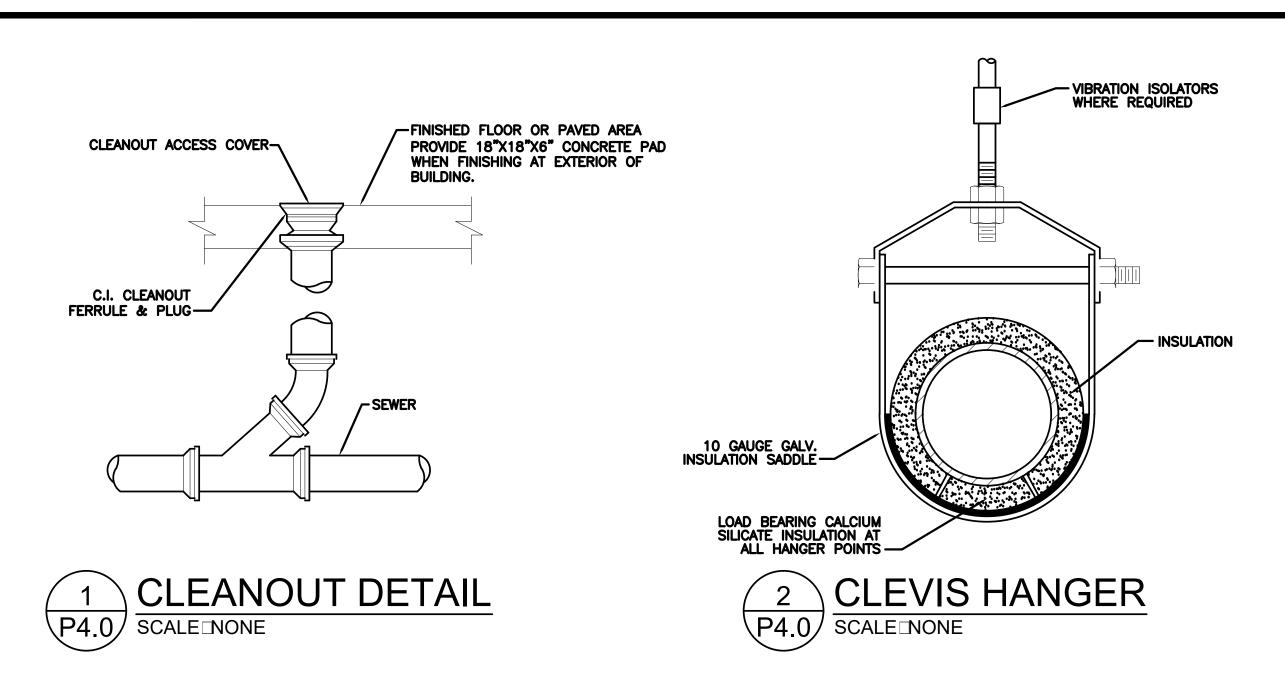
AND EXPENSES ARISING OUT OF OR RESULTING THEREFRO					
	REVISIONS				
NO.	DESCRIPTION	DATE			
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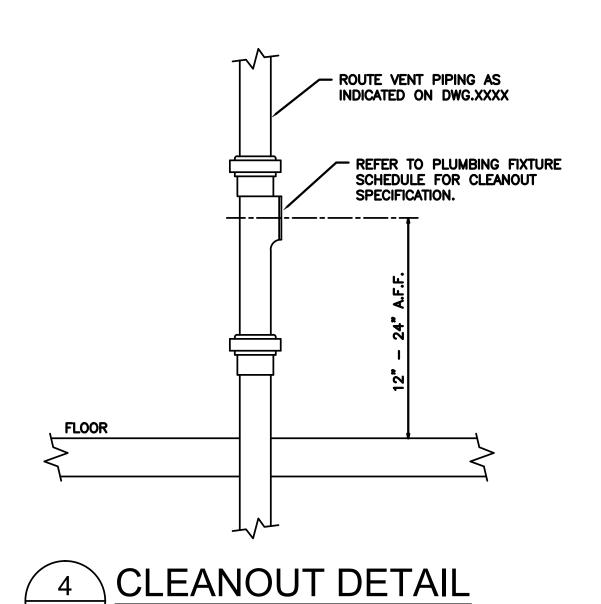
DOMESTIC WATER **GAS PIPING RISER DIAGRAMS** 

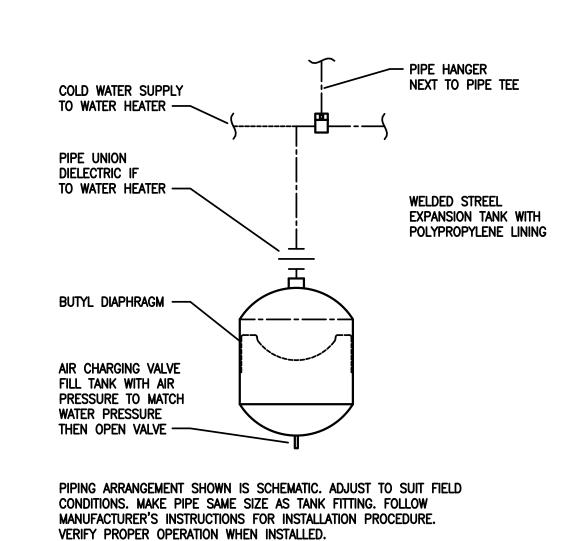
CCIA2020-02 OCTOBER 19, 2020 SCALE: as noted

P-3.1

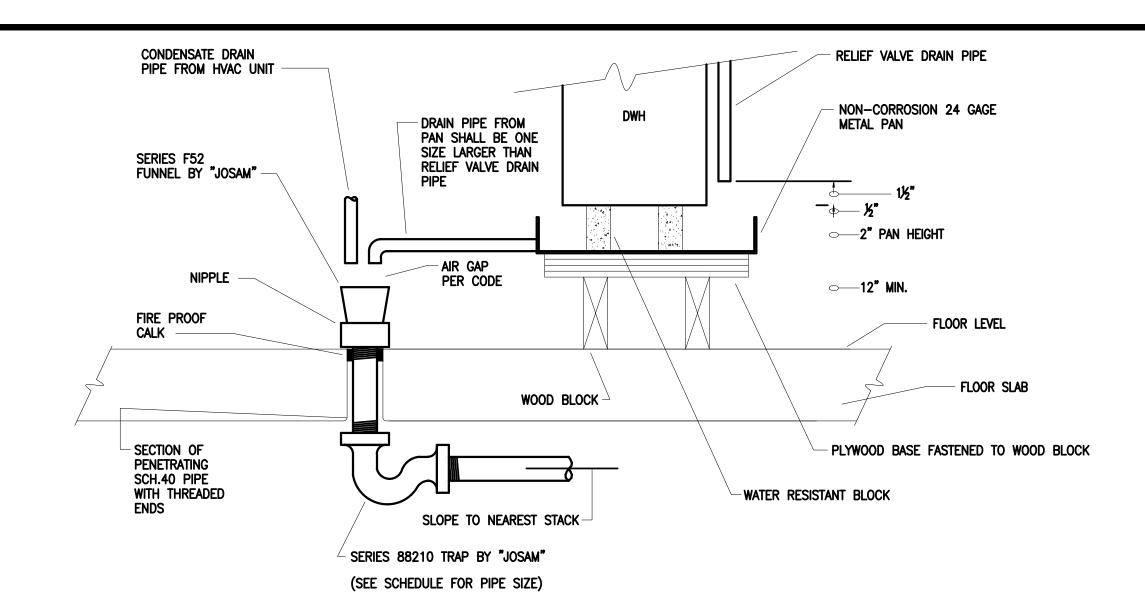
DRAWING NUMBER:











GWH PAN DISCHARGE TO FUNNEL DRAIN
SCALE\_NONE



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PROJECT:

## CAMDEN COUNTY VATION & MODERNIZATION REGAN BUILDING

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REVISIONS

NO. DESCRIPTION DATE

DATE

DATE

DRAWING TITLE:

PLUMBING DETAILS WATER & GAS

CCIA2020-02

DM3/AAW/RH/BMG

DATE:
OCTOBER 19, 2020

SCALE:
AS NOTED

DM3/AAW/AM

CHECKED BY:
SMB/DM3/AAW

DRAWING NUMBER:

P-4.0

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