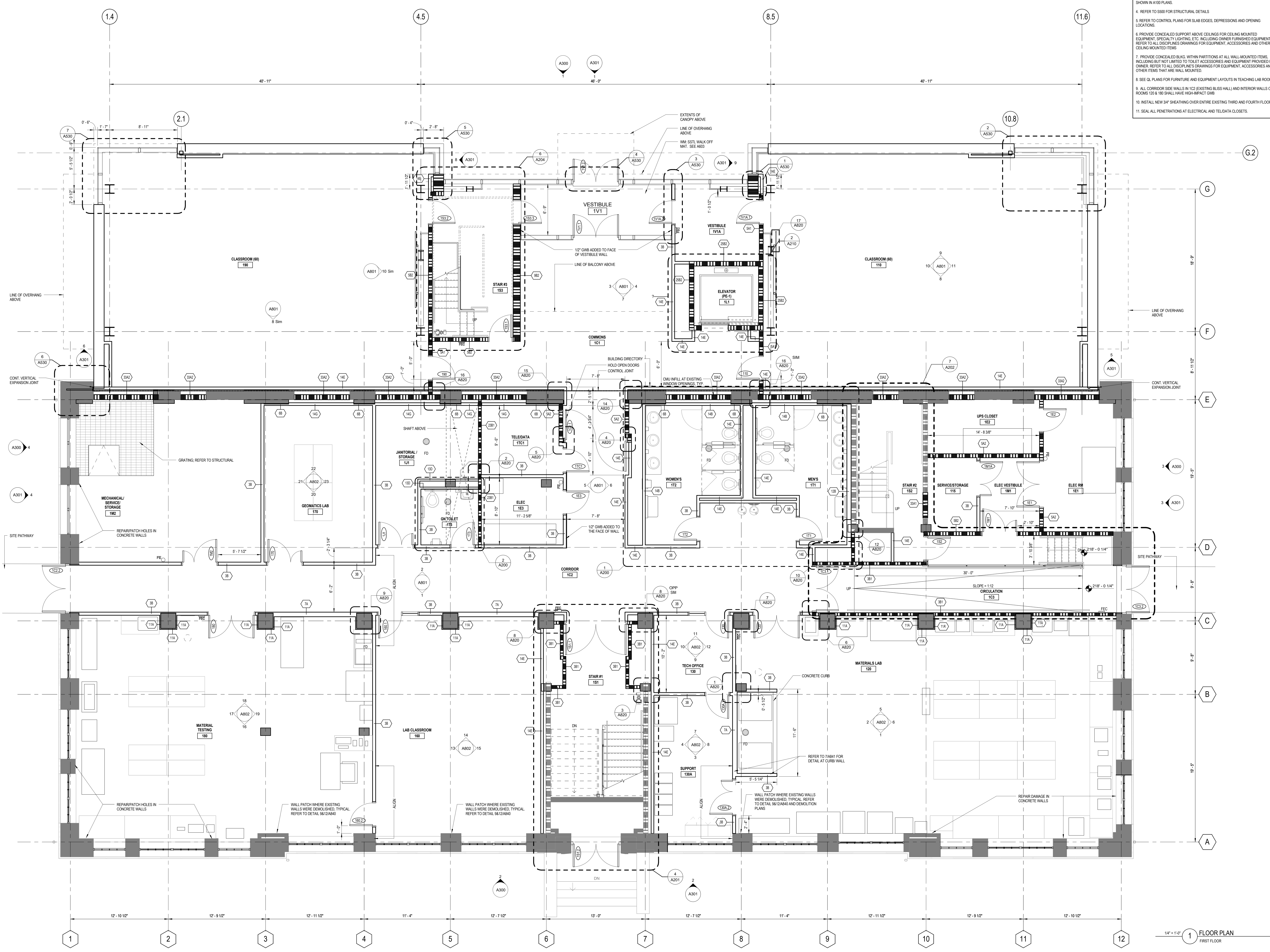


FLOOR PLAN GENERAL NOTES

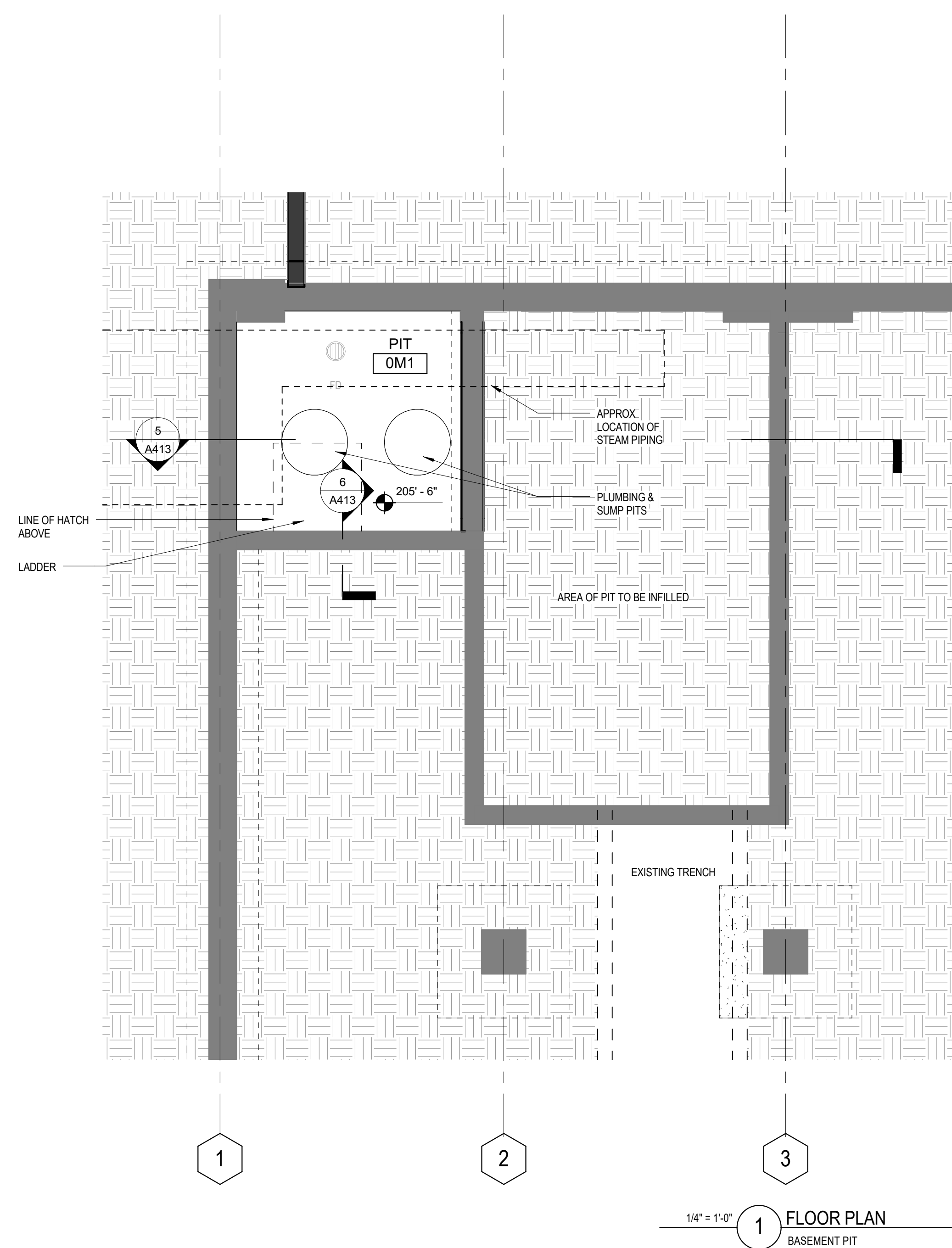
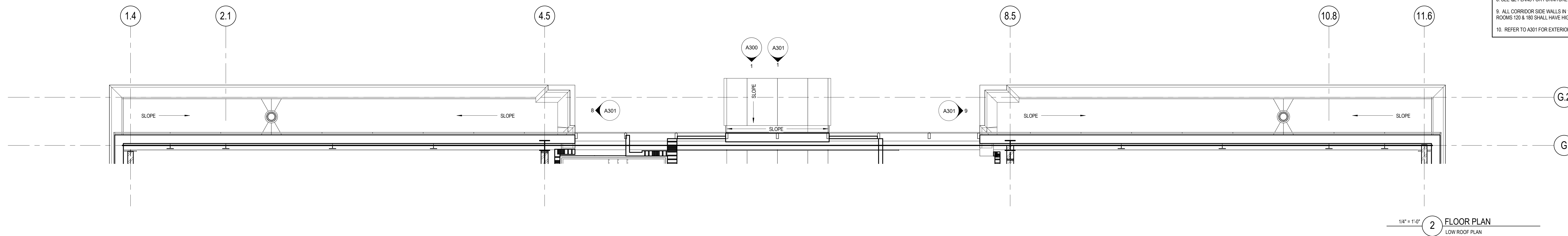
1. REFER TO A300 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A302 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS.
4. REFER TO S500 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS.
6. PROVIDE CONCEALED SUPPORT ABOVE CEILING FOR CEILING MOUNTED EQUIPMENT, SPECIALTY LIGHTING, ETC. INCLUDING OWNER FURNISHED EQUIPMENT. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS.
7. PROVIDE CONCEALED BLDG. WITHIN PARTITIONS AT ALL WALL-MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OWNER. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED.
8. SEE Q.L. PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C2 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 108 & 109 SHALL HAVE HIGH IMPACT CABS
10. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
11. SEAL ALL PENETRATIONS AT ELECTRICAL AND TEL/DATA CLOSETS.



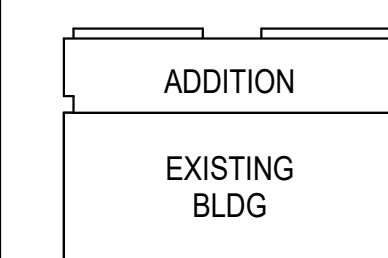
1" = 1'-0" 1 FLOOR PLAN
FIRST FLOOR

FLOOR PLAN GENERAL NOTES

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS.
4. REFER TO S600 FOR STRUCTURAL DETAILS
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8. SEE QJ PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN R22 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 10 & 101 SHALL HAVE FIRM IMPACT CURBS
10. REFER TO A301 FOR EXTERIOR SYSTEM ABBREVIATION DESCRIPTIONS



KEYPLAN:



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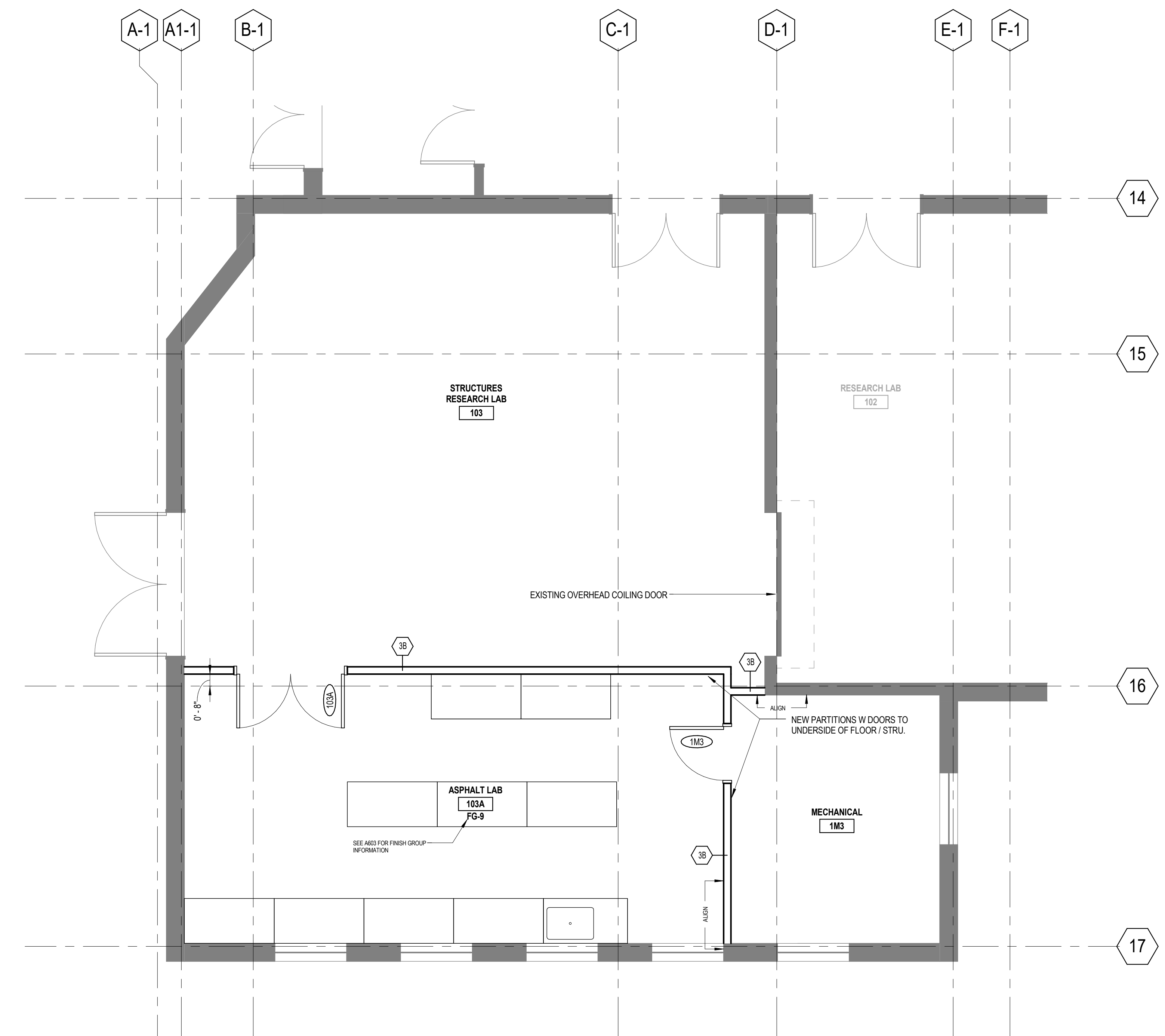
PROJECT: 15085.11
SCALE: As indicated
ARCHITECTURE

TITLE:
BASEMENT PIT & LOW ROOF FLOOR PLAN

NUMBER:
A101.1

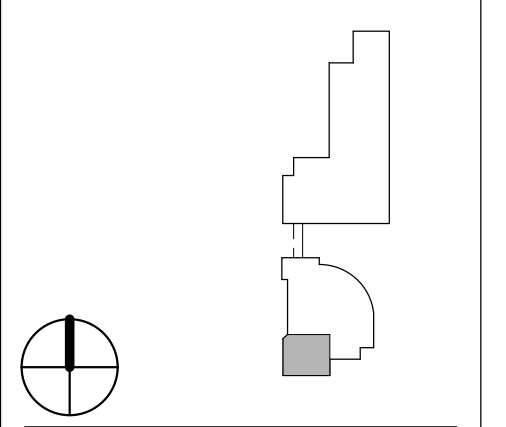
**FLOOR PLAN
GENERAL NOTES**

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS.
4. REFER TO S300 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS
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8. SEE CL PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C2 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH IMPACT GWB
10. REFER TO A301 FOR EXTERIOR SYSTEM ABBREVIATION DESCRIPTIONS



1/4" = 1'-0" **1** FLOOR PLAN
ASPHALT LAB - FIRST FLOOR PLAN

KEYPLAN:



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PROJECT: 15085.11
SCALE: As indicated

ARCHITECTURE

TITLE:

FIRST FLOOR PLAN
(KIRK)

NUMBER:

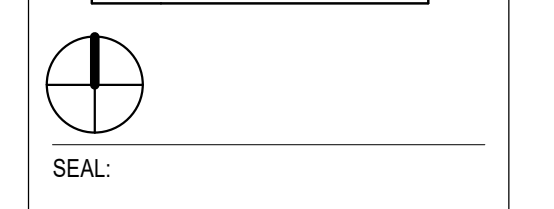
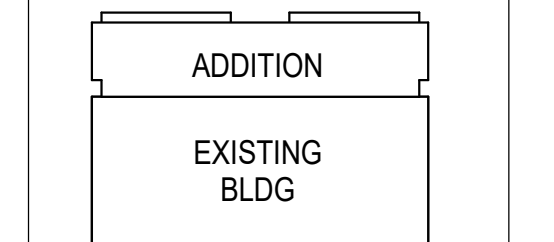
A101.2

FLOOR PLAN GENERAL NOTES

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS.
4. REFER TO S600 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS.
6. PROVIDE CONCEALED SUPPORT ABOVE CEILING FOR CEILING MOUNTED EQUIPMENT, SPECIAL TY LIGHTING, ETC. INCLUDING OWNER FURNISHED EQUIPMENT. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS.
7. PROVIDE CONCEALED BLANK WITH PARTITIONS AT ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OWNER. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED.
8. SEE CL PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 101 EXISTING BLISS HALL AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH IMPACT GWB
10. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
11. SEAL ALL PENETRATIONS AT ELECTRICAL AND TEL/DATA CLOSETS.



KEYPLAN:



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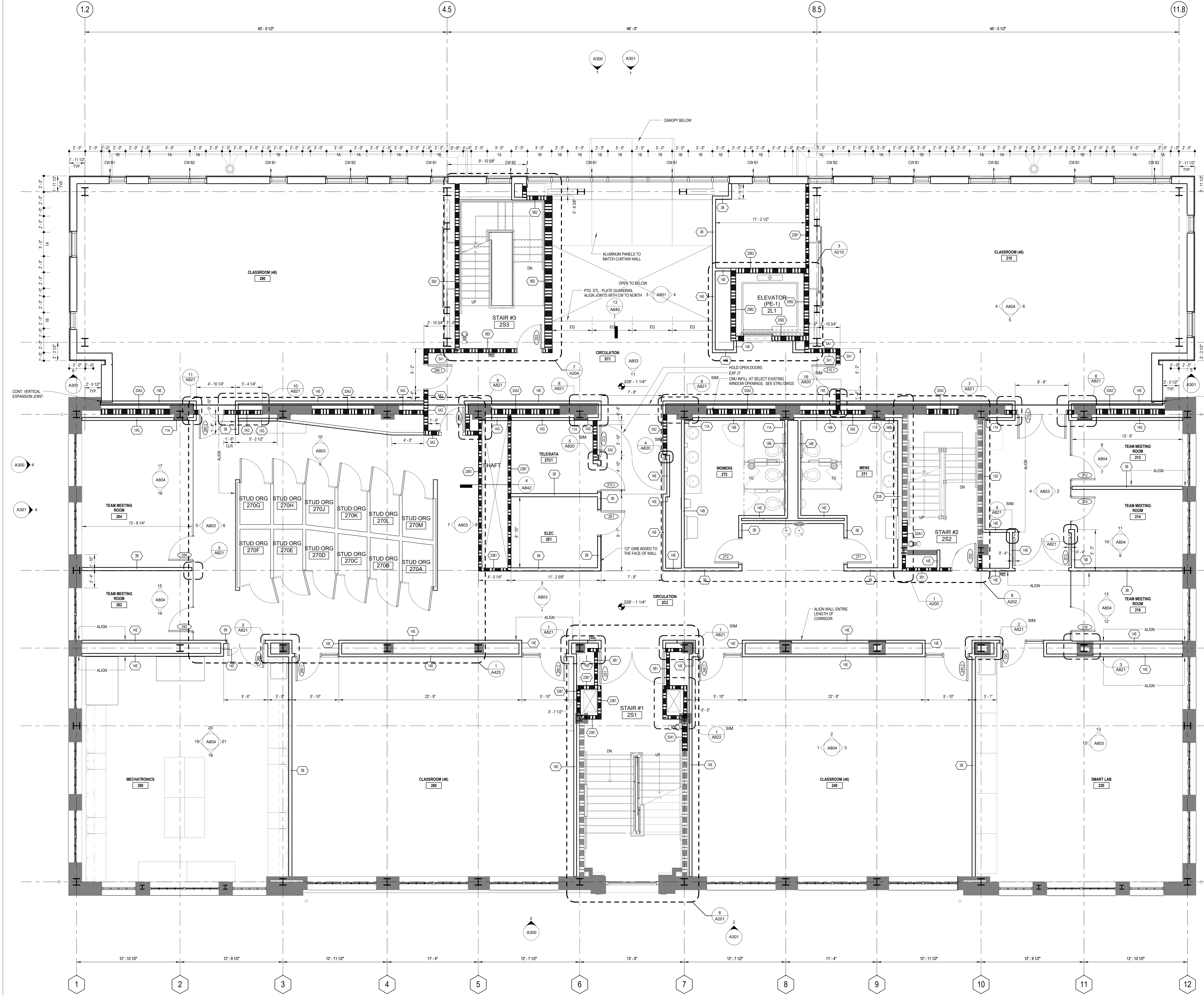
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DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated
ARCHITECTURE

SECOND FLOOR PLAN

NUMBER:

A102



1" = 1'-0" 1 FLOOR PLAN
SECOND FLOOR

FLOOR PLAN GENERAL NOTES

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS
4. REFER TO S500 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS
6. PROVIDE CONCEALED SUPPORT ABOVE CEILING FOR CEILING MOUNTED EQUIPMENT, SPECIALTY LIGHTING, ETC. INCLUDING CHIMNEY FURNISHED EQUIPMENT. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS
7. PROVIDE CONCEALED BUNG WITH PARTITIONS AT ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OWNER. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED
8. SEE QJ PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C3 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH-IMPACT GWB
10. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS
11. SEAL ALL PENETRATIONS AT ELECTRICAL AND TEL/DATA CLOSETS

THE UNIVERSITY OF RHODE ISLAND

BLISS HALL ADDITION AND RENOVATION

PROJECT NO. KC.G.ENG.R.2017.001

BALLINGER

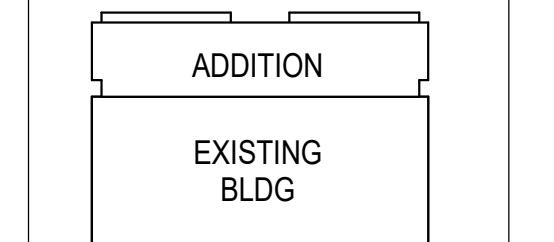
833 CHESTNUT ST., SUITE 1400
PHILADELPHIA, PA 19107
T 215 446 0900
F 215 446 0901
BALLINGER.COM

CONSULTANTS:

**BREWSTER
THORNTON
GROUP
ARCHITECTS**
LLP

150 Chestnut Street
Providence, RI
02903
Tel 401.861.1600
Fax 401.861.5588

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PROJECT: 15085.11

SCALE: As indicated

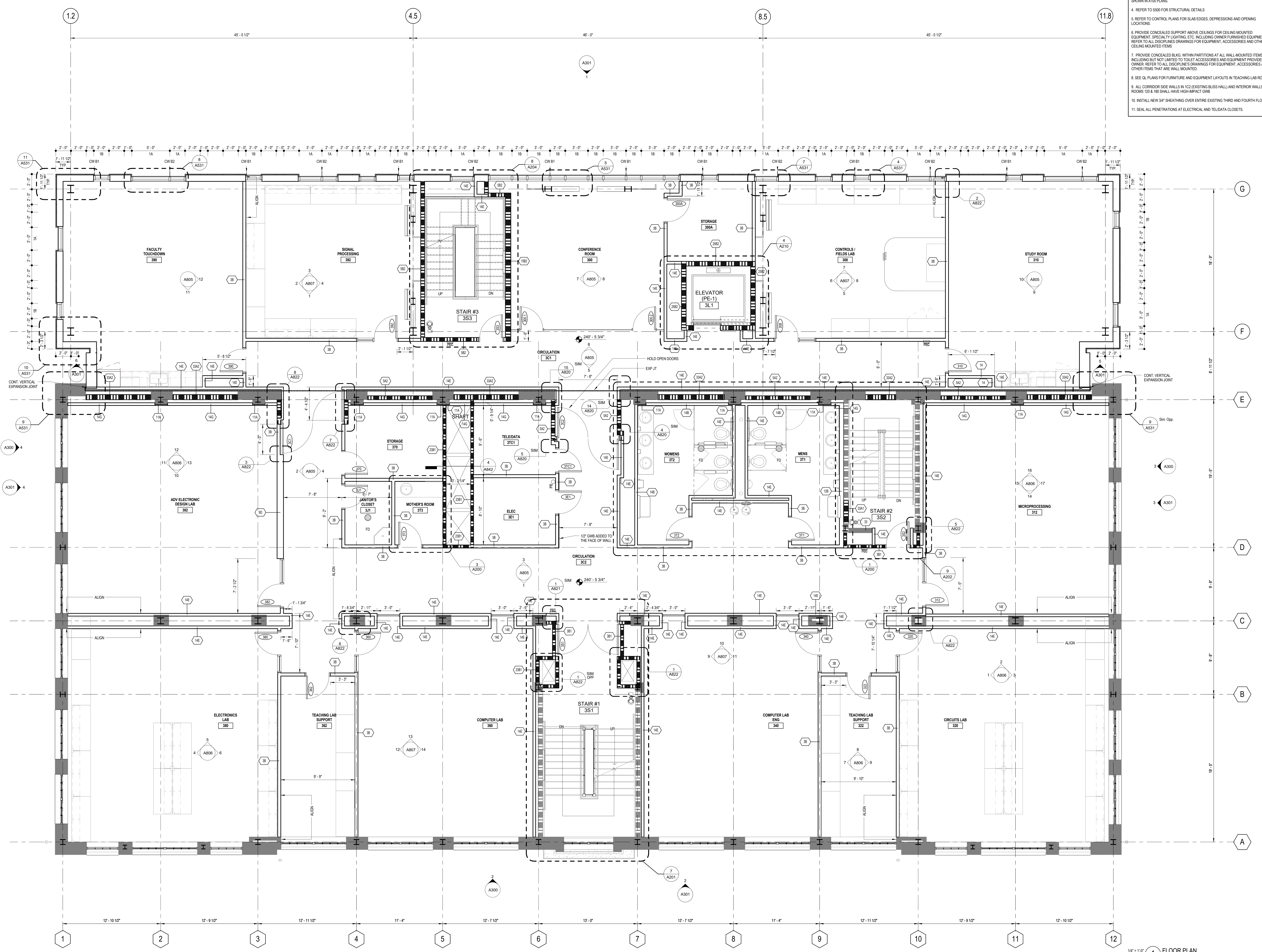
ARCHITECTURE

TITLE:

THIRD FLOOR PLAN

NUMBER:

A103



1/4" = 1'-0" **1** FLOOR PLAN
THIRD FLOOR

FLOOR PLAN GENERAL NOTES

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS
4. REFER TO S500 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS
6. PROVIDE CONCEALED SUPPORT ABOVE CEILING FOR CEILING MOUNTED EQUIPMENT, SPECIALTY LIGHTING, ETC. INCLUDING CONCRETE FURNISHED EQUIPMENT. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS
7. PROVIDE CONCEALED DRWG. WITH PARTITIONS AT ALL WALL MOUNTED ITEMS, INCLUDING BUT NOT LIMITED TO TOILET ACCESSORIES AND EQUIPMENT PROVIDED BY OWNER. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER ITEMS THAT ARE WALL MOUNTED.
8. SEE QI PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING/LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C3 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH-IMPACT GWB
10. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS
11. SEAL ALL PENETRATIONS AT ELECTRICAL AND TEL/DATA CLOSETS

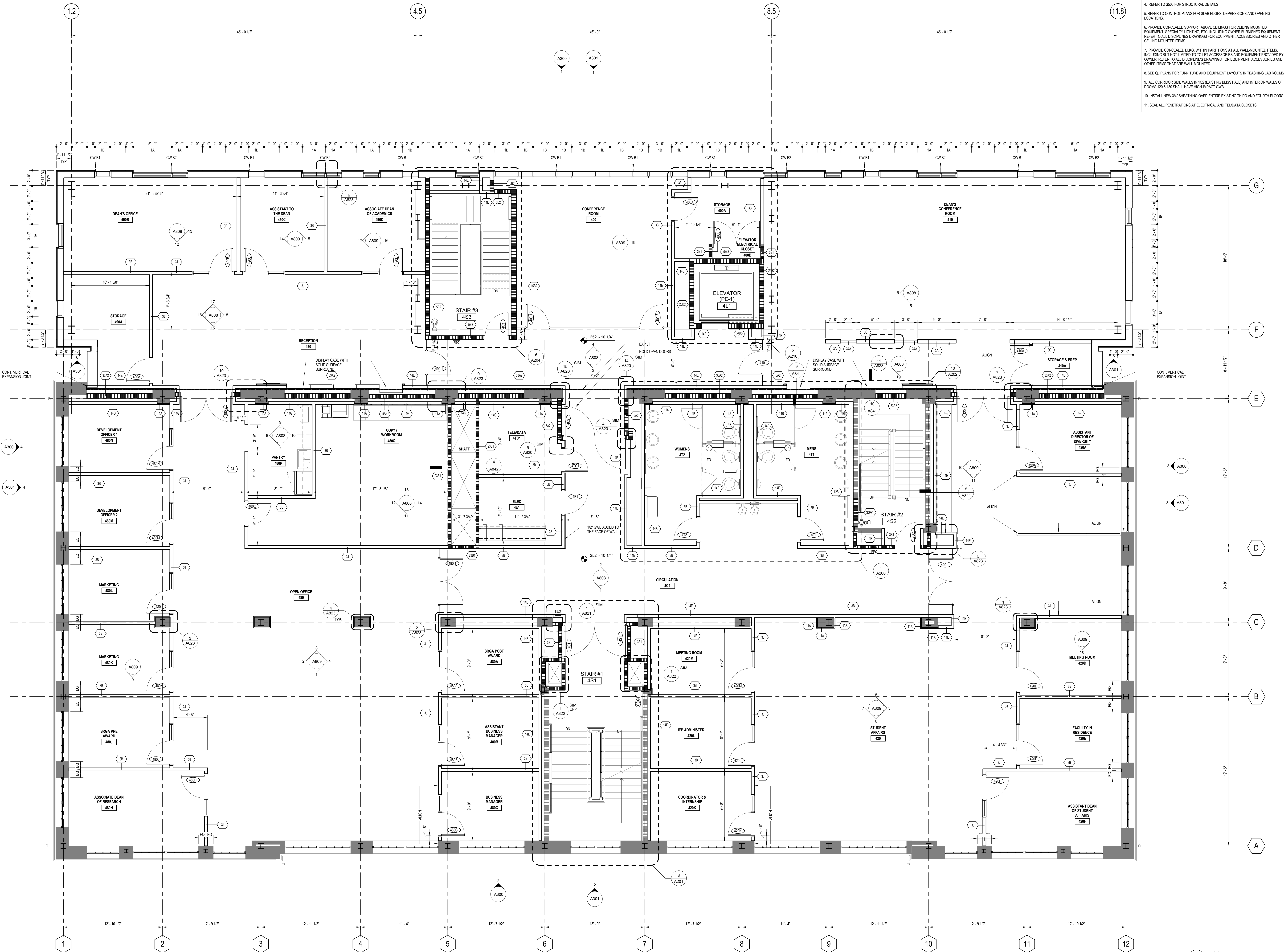


KEYPLAN:

ADDITION
EXISTING BLDG



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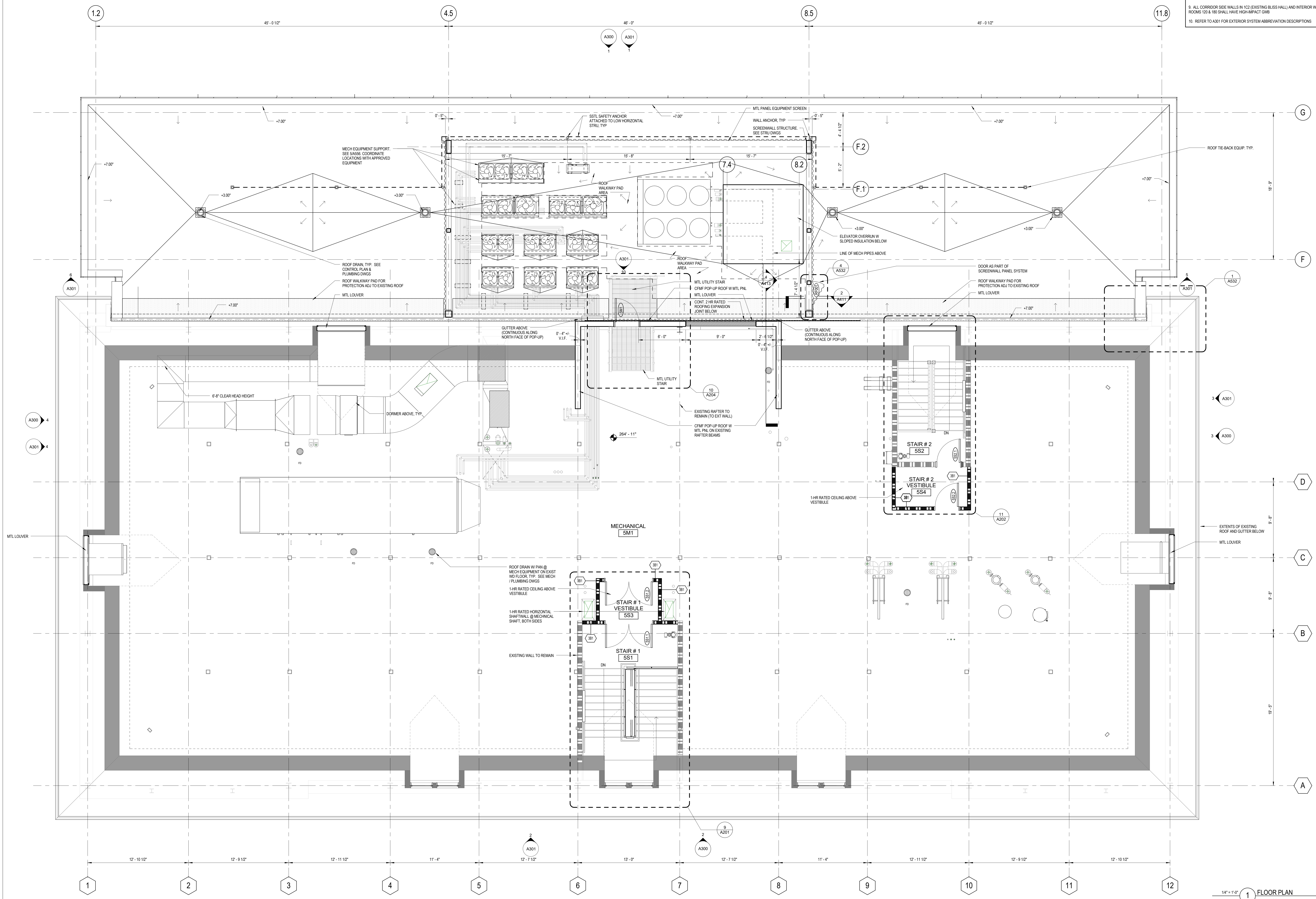
1" = 1'-0" 1 FLOOR PLAN
FOURTH FLOOR

FLOOR PLAN GENERAL NOTES

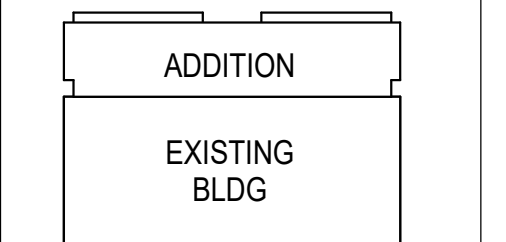
1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS
4. REFER TO S500 FOR STRUCTURAL DETAILS
5. REFER TO CONTROL PLANS FOR SLAB EDGES, DEPRESSIONS AND OPENING LOCATIONS
6. PROVIDE CONCEALED SUPPORT ABOVE CEILINGS FOR CEILING MOUNTED EQUIPMENT, SPECIALTY LIGHTING, ETC. INCLUDING OWNER FINISHED EQUIPMENT. REFER TO ALL DISCIPLINE DRAWINGS FOR EQUIPMENT, ACCESSORIES AND OTHER CEILING MOUNTED ITEMS
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8. SEE QI PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING/LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C3 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH-IMPACT GWB
10. REFER TO A301 FOR EXTERIOR SYSTEM ABBREVIATION DESCRIPTIONS

ROOF LEGEND:

	ROOF DRAIN
	ROOF TIE-BACK EQUIPMENT, TYP.
	WALL ANCHOR TIE-BACK EQUIPMENT, TYP.
	TAPERED INSULATION THICKNESS
	DIRECTION OF WATER FLOW SLOPE 1/4" PER FOOT, MIN.
	24" WALKWAY PAD W/ PROTECTIVE MEMBRANE UNDERLAYMENT



KEYPLAN:



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THIS DOCUMENT IS TO BE USED BY THE USER UNDER CONTRACTOR'S SUPERVISION. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DOCUMENTS. THE USER SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE DOCUMENTS.

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PROJECT: 15085.11
SCALE: As indicated

ARCHITECTURE

FIFTH FLOOR PLAN

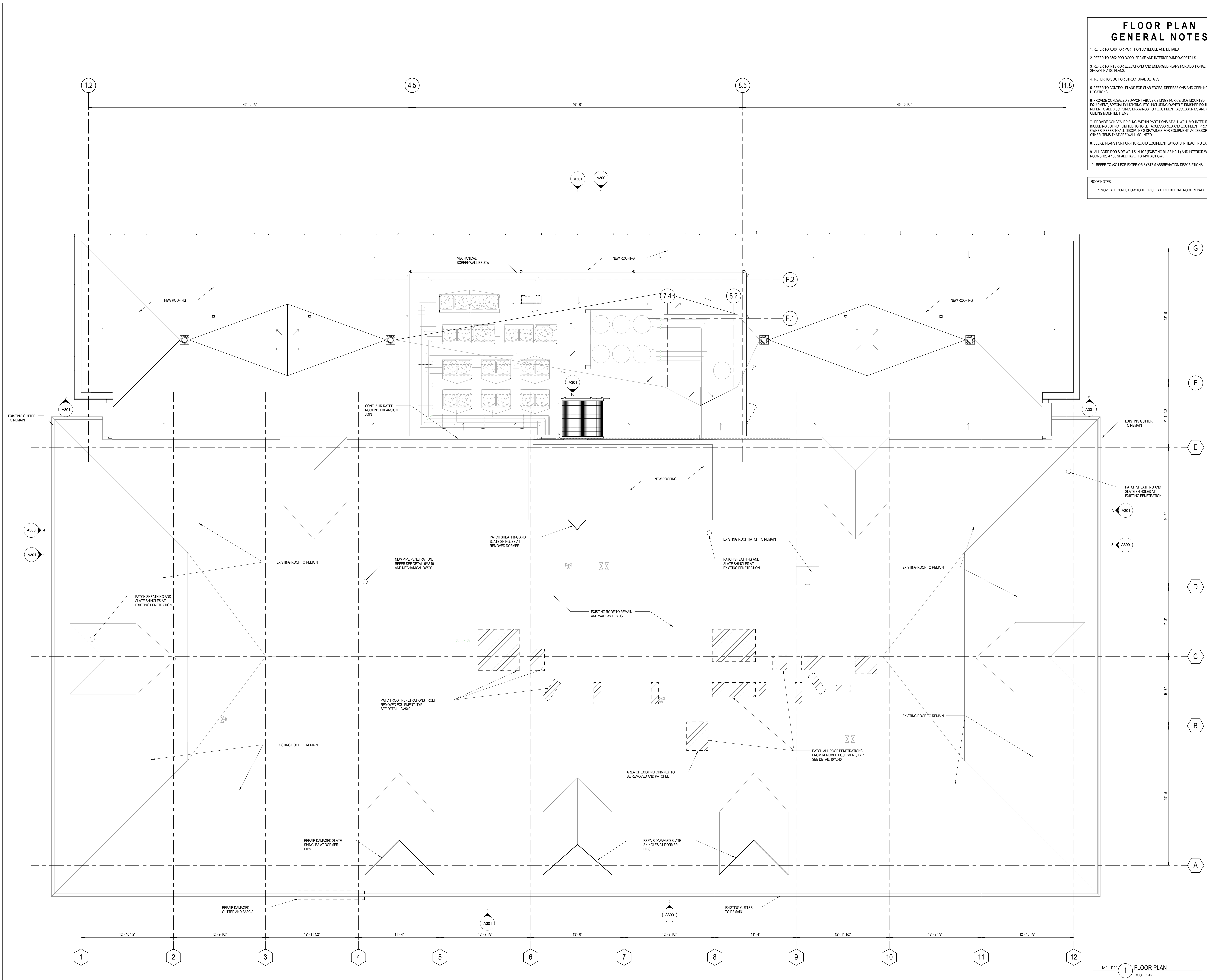
NUMBER:
A105

1/4" = 1'-0" 1 FLOOR PLAN
FIFTH FLOOR

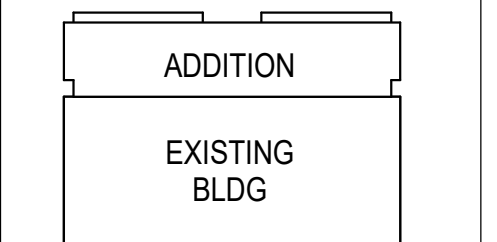
**FLOOR PLAN
GENERAL NOTES**

1. REFER TO A600 FOR PARTITION SCHEDULE AND DETAILS
2. REFER TO A602 FOR DOOR, FRAME AND INTERIOR WINDOW DETAILS
3. REFER TO INTERIOR ELEVATIONS AND ENLARGED PLANS FOR ADDITIONAL TAGS NOT SHOWN IN A100 PLANS
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8. SEE QJ PLANS FOR FURNITURE AND EQUIPMENT LAYOUTS IN TEACHING/LAB ROOMS
9. ALL CORRIDOR SIDE WALLS IN 1C1 (EXISTING BLISS HALL) AND INTERIOR WALLS OF ROOMS 120 & 180 SHALL HAVE HIGH-IMPACT GWB
10. REFER TO A301 FOR EXTERIOR SYSTEM ABBREVIATION DESCRIPTIONS

ROOF NOTES:
REMOVE ALL CURBS DOWN TO THEIR SHEATHING BEFORE ROOF REPAIR



KEYPLAN:



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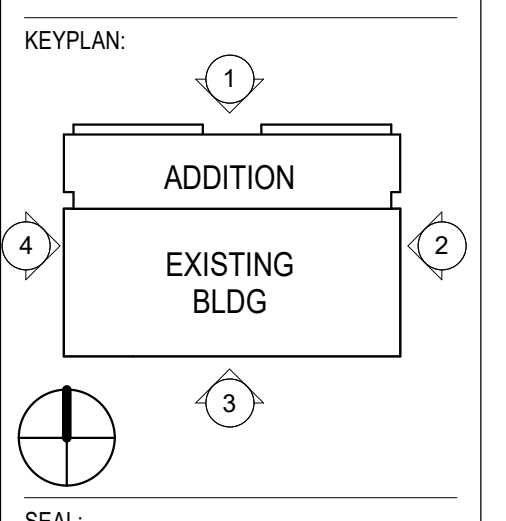
PROJECT: 15085.11
SCALE: As indicated
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TITLE:

ROOF PLAN

NUMBER:

A106



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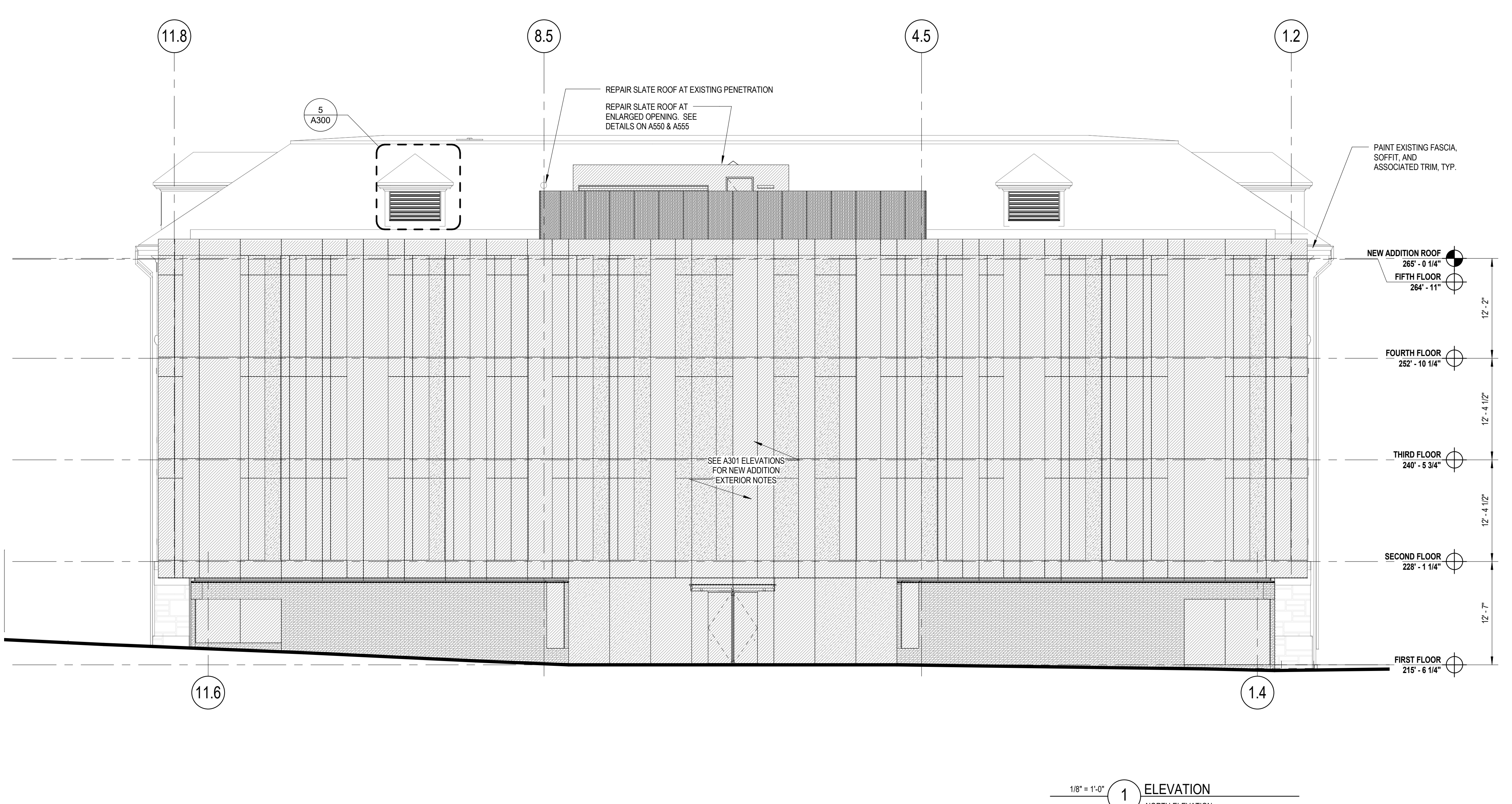
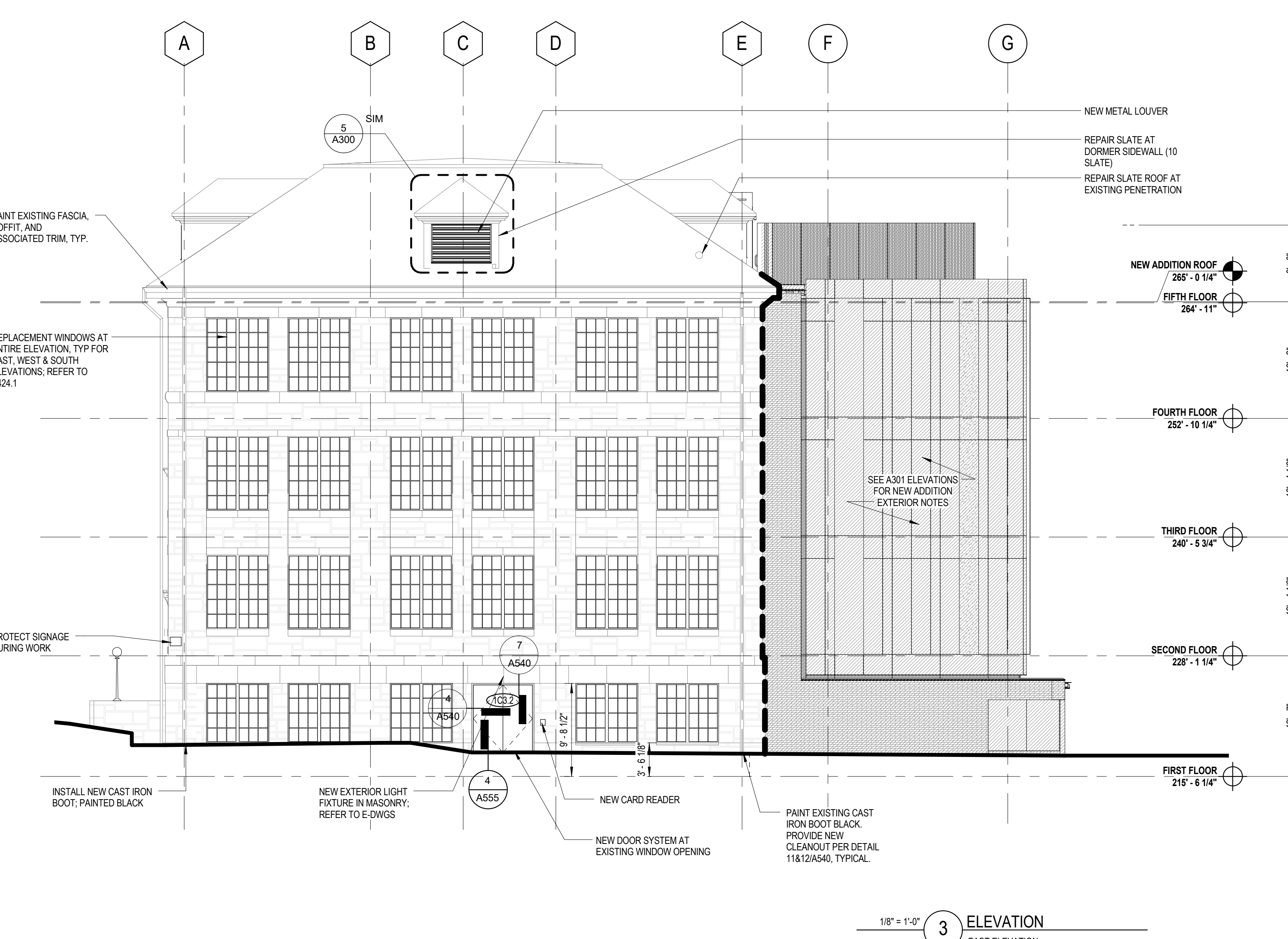
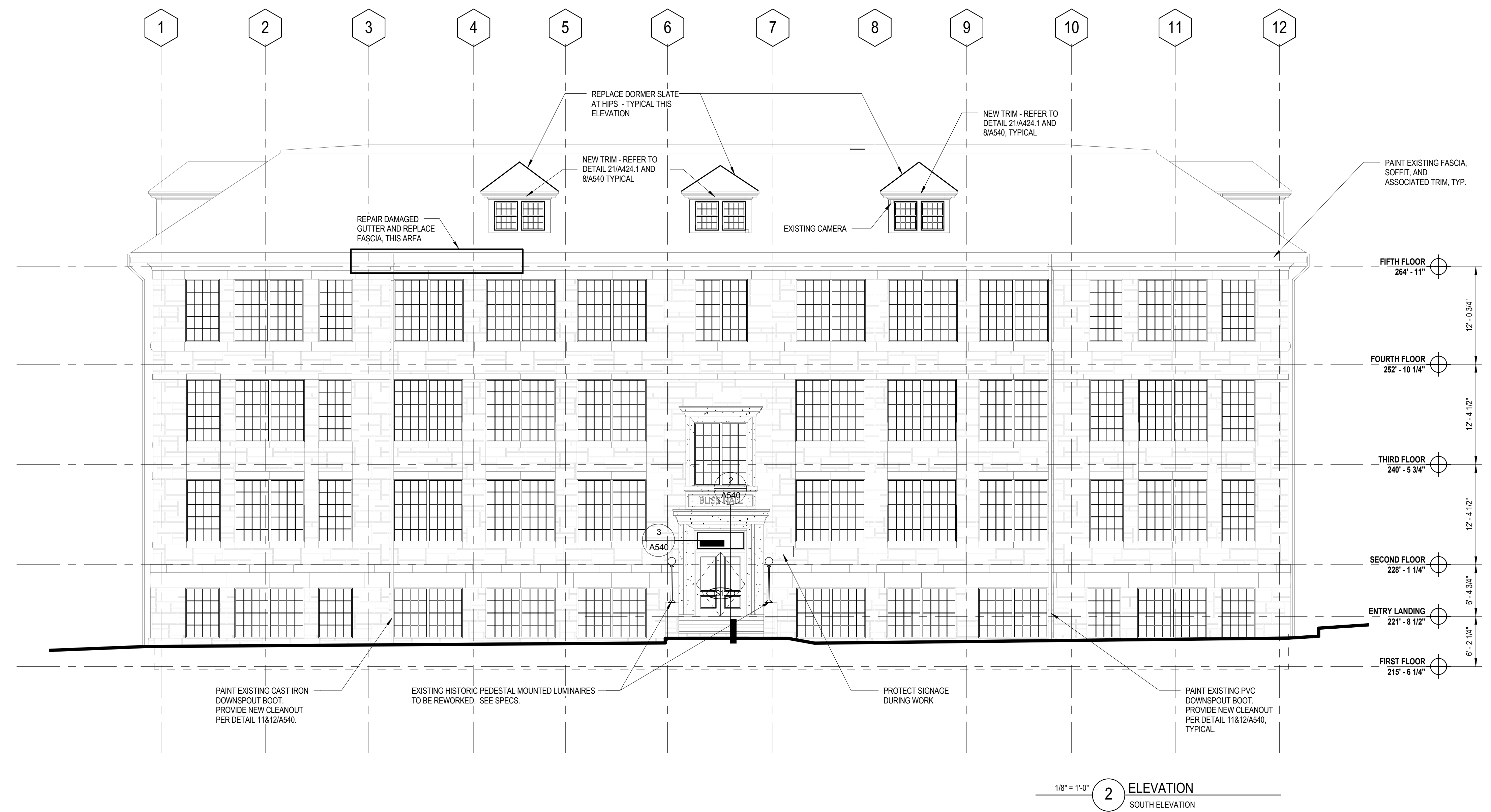
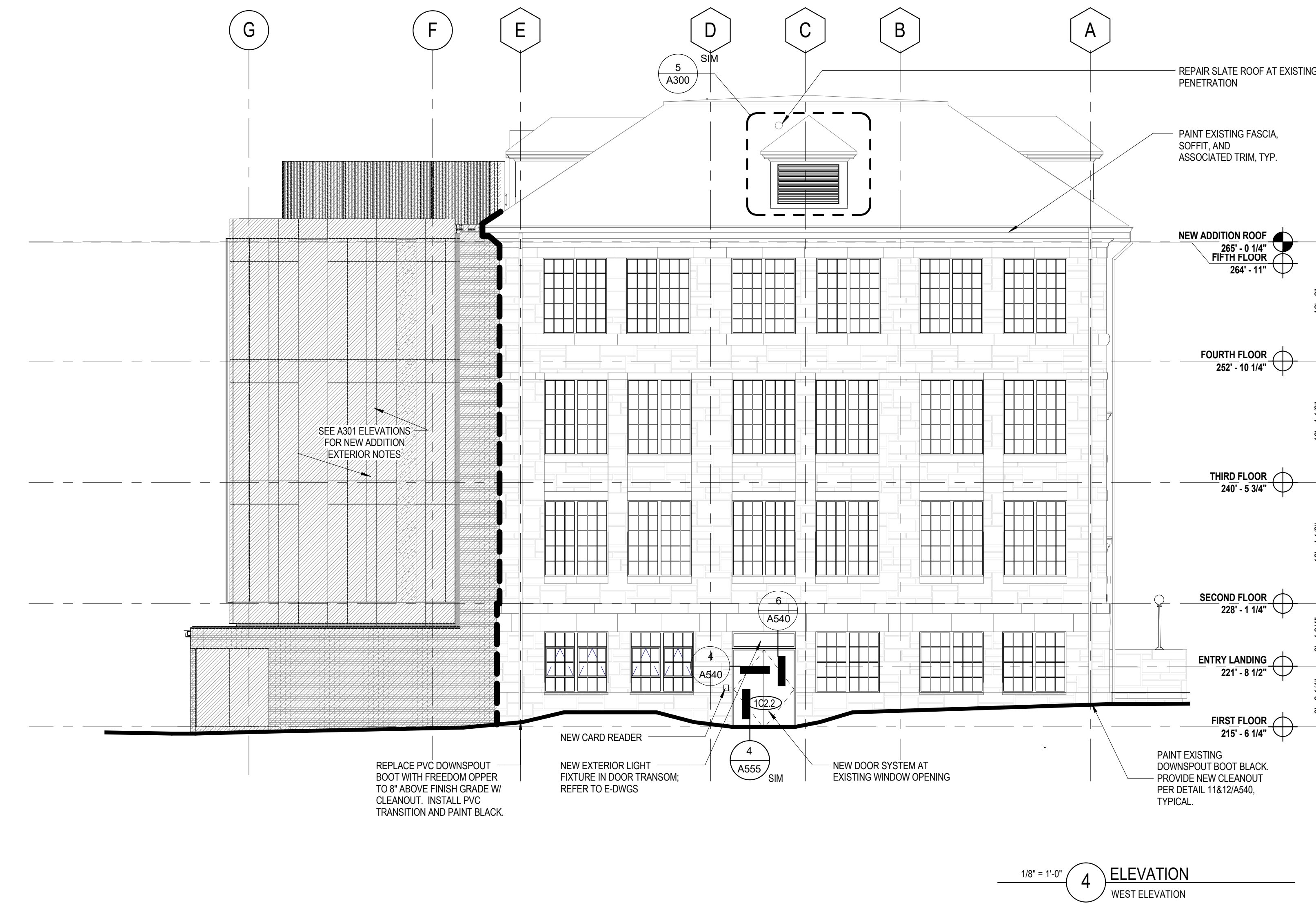
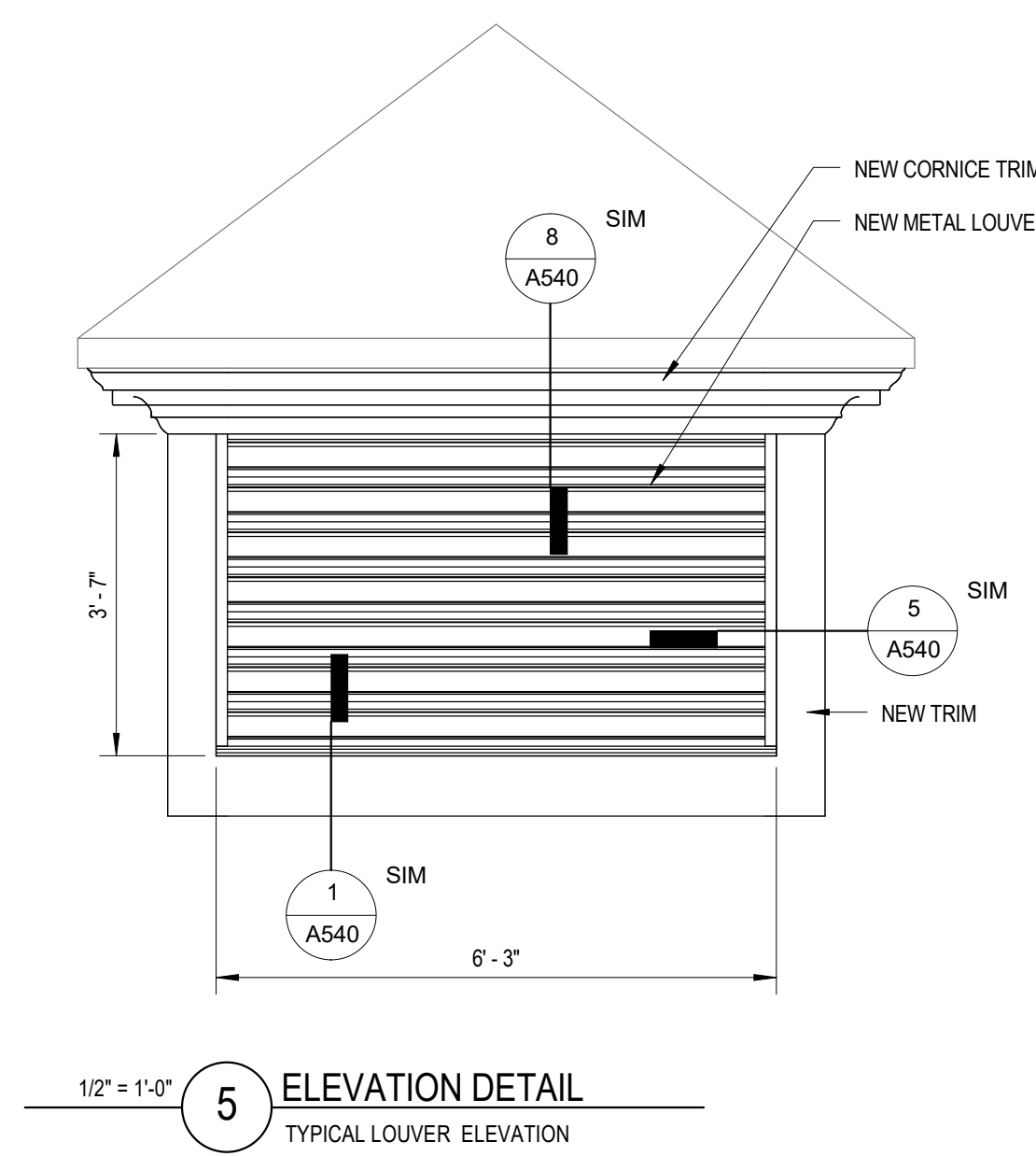
ELEVATIONS - EXISTING BUILDING

NUMBER:

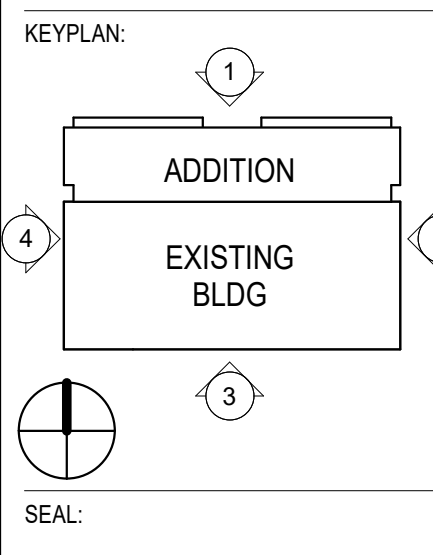
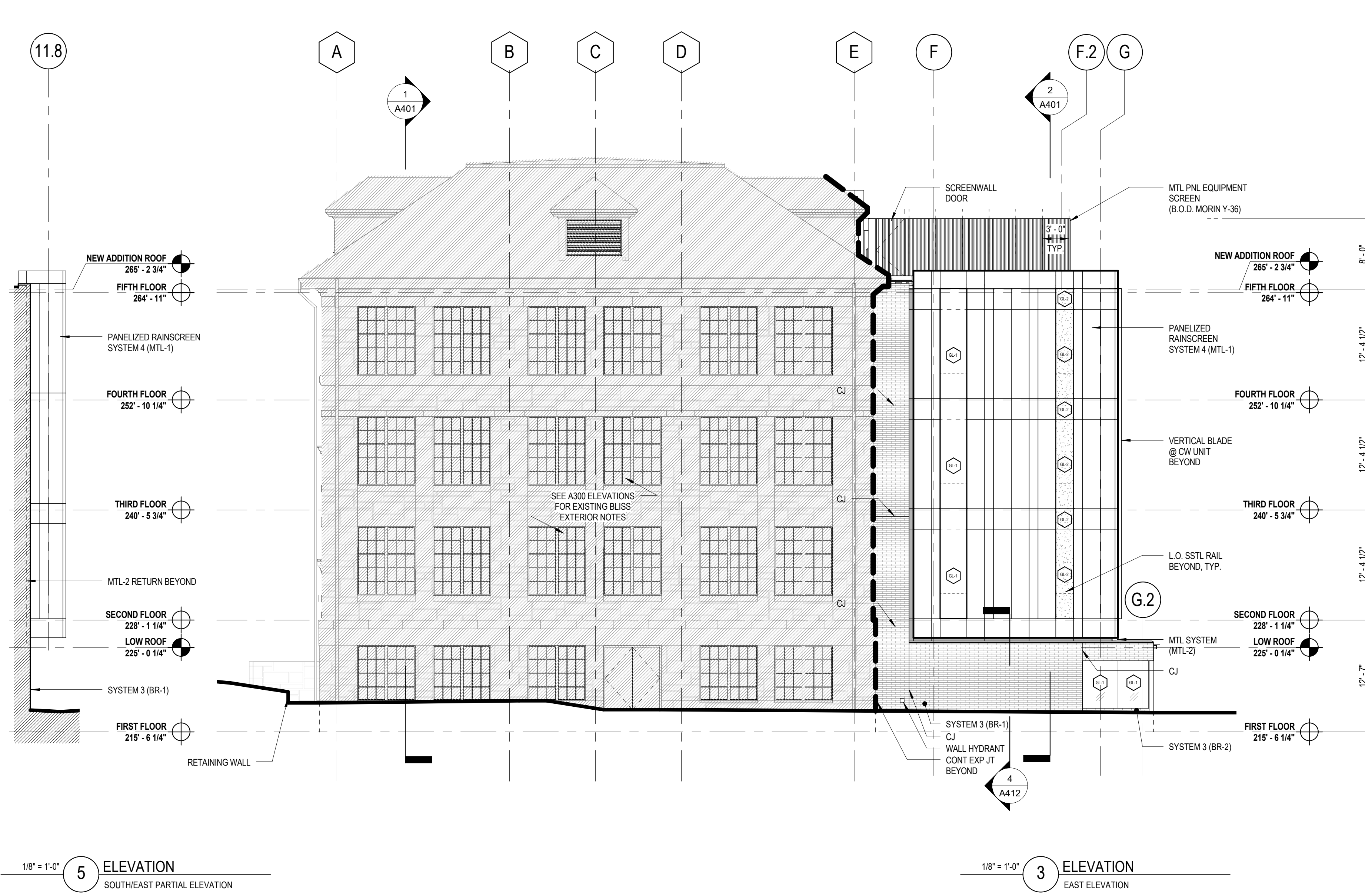
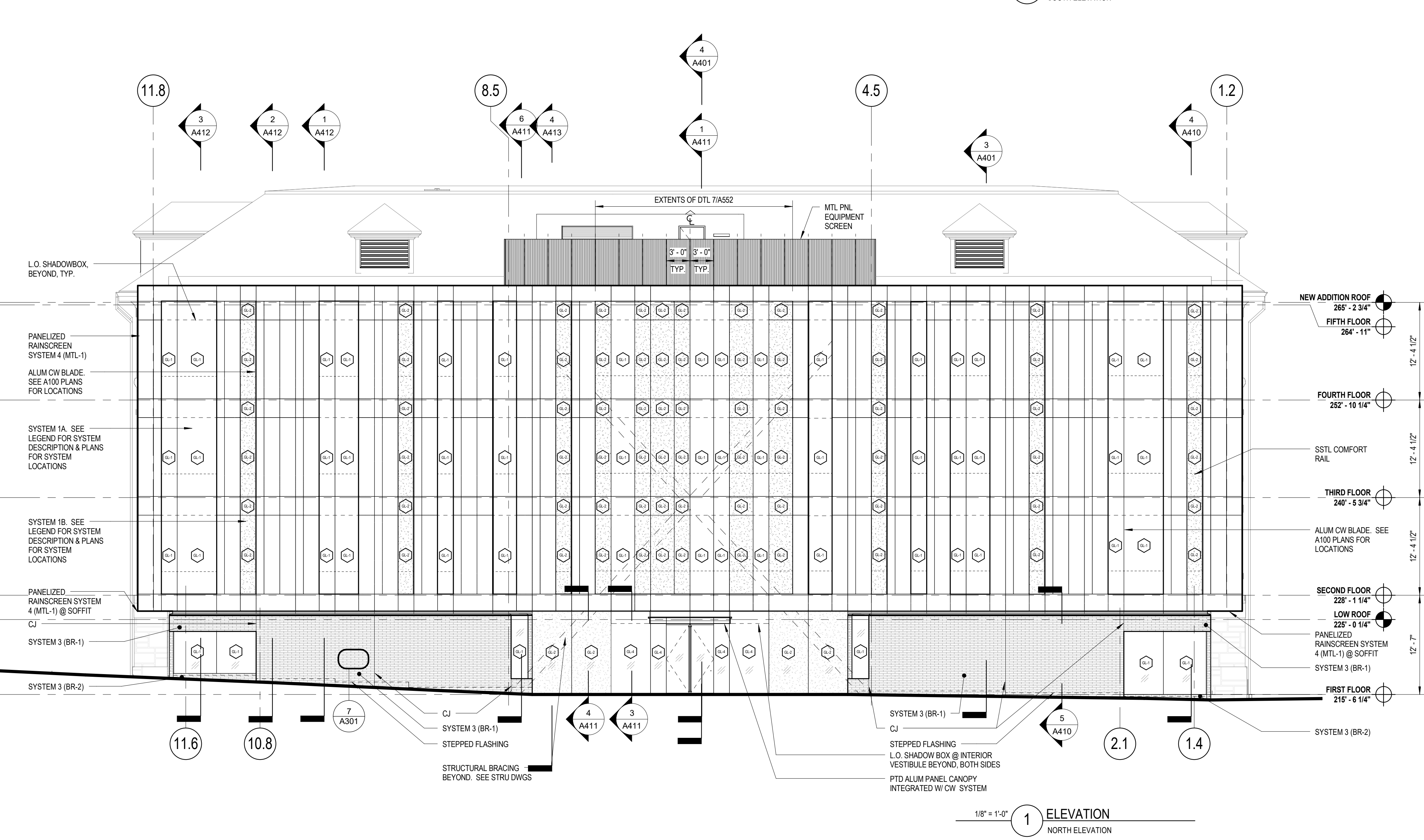
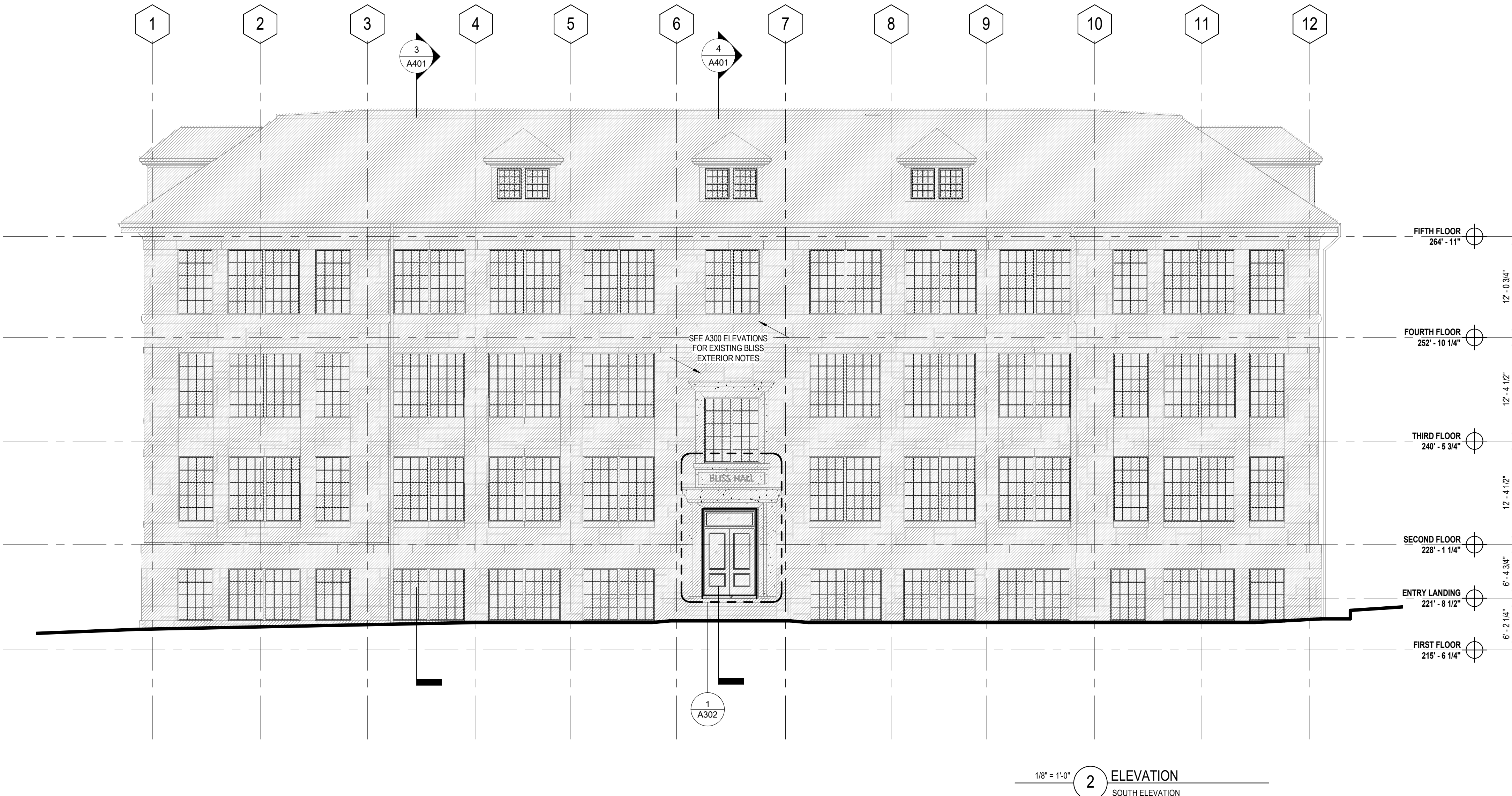
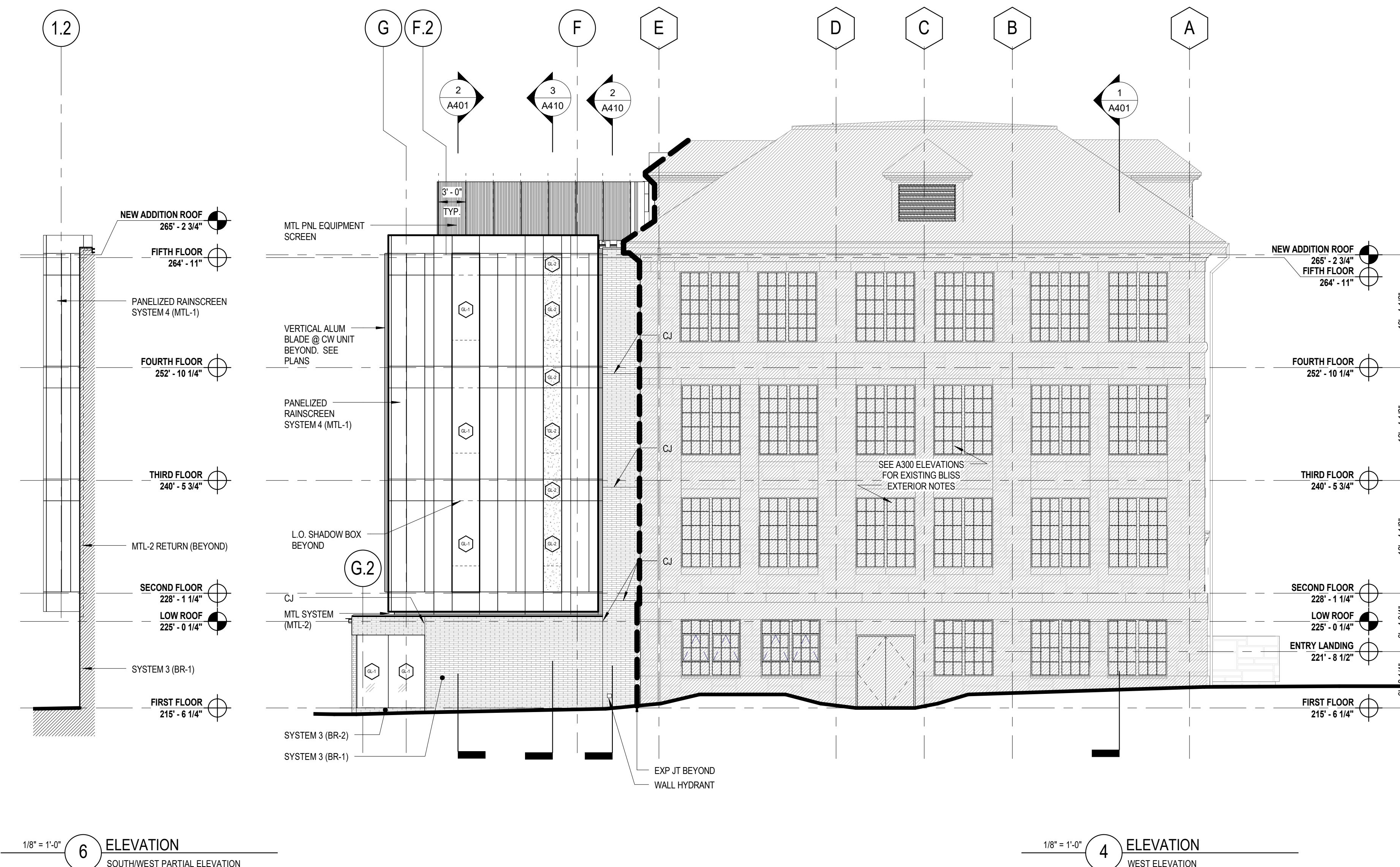
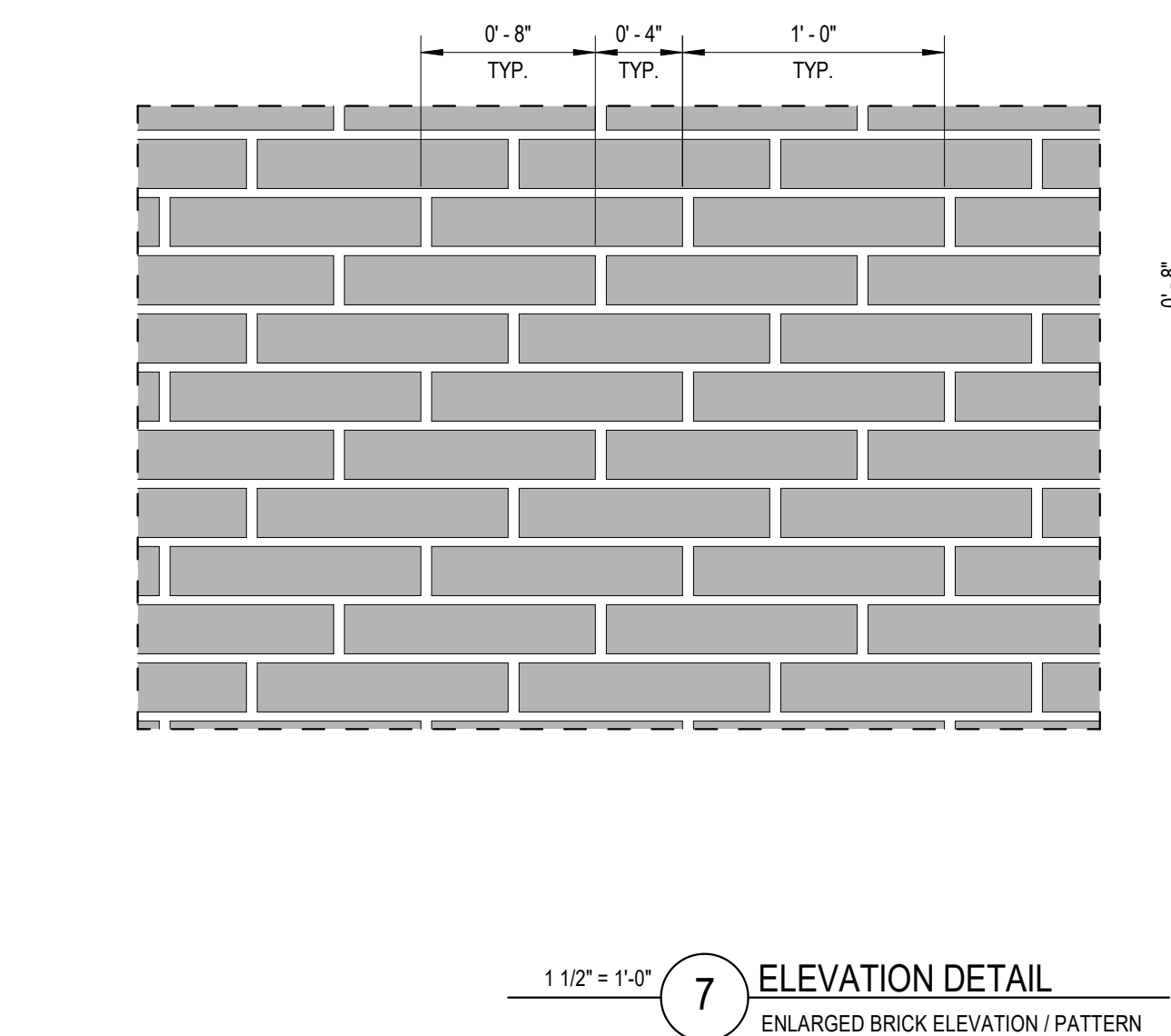
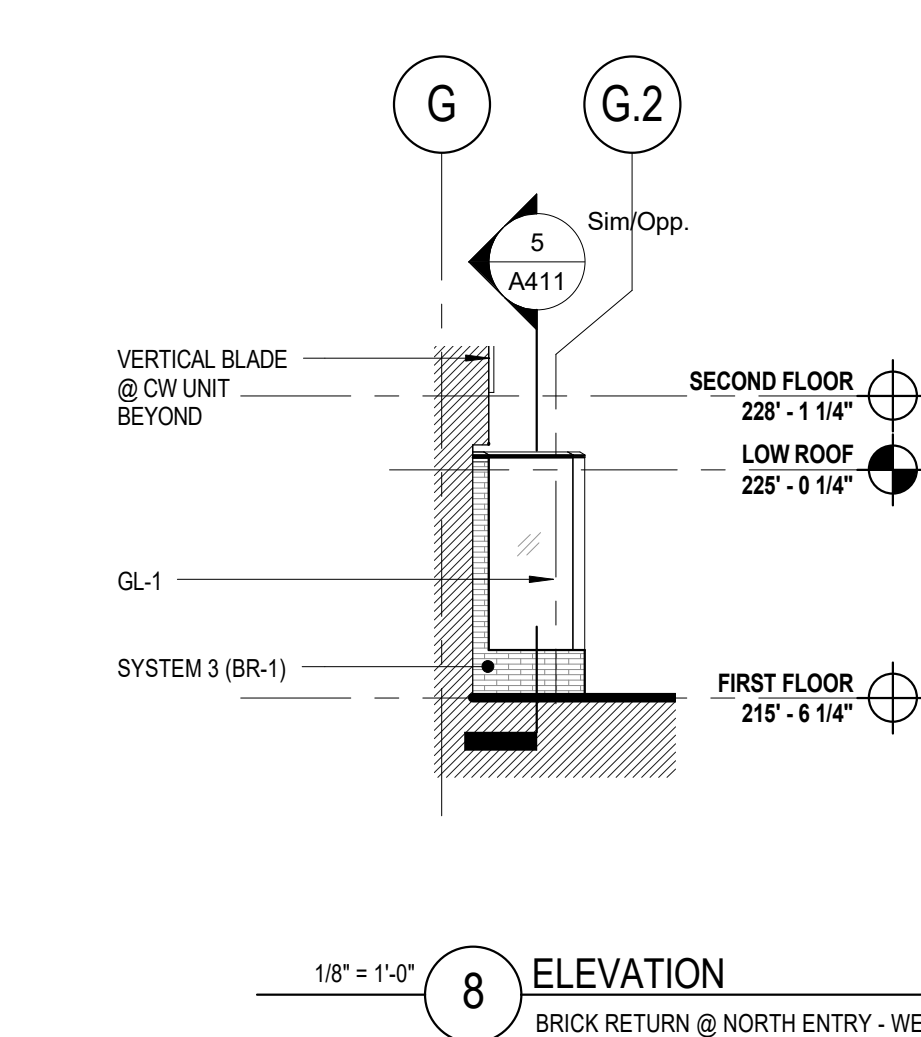
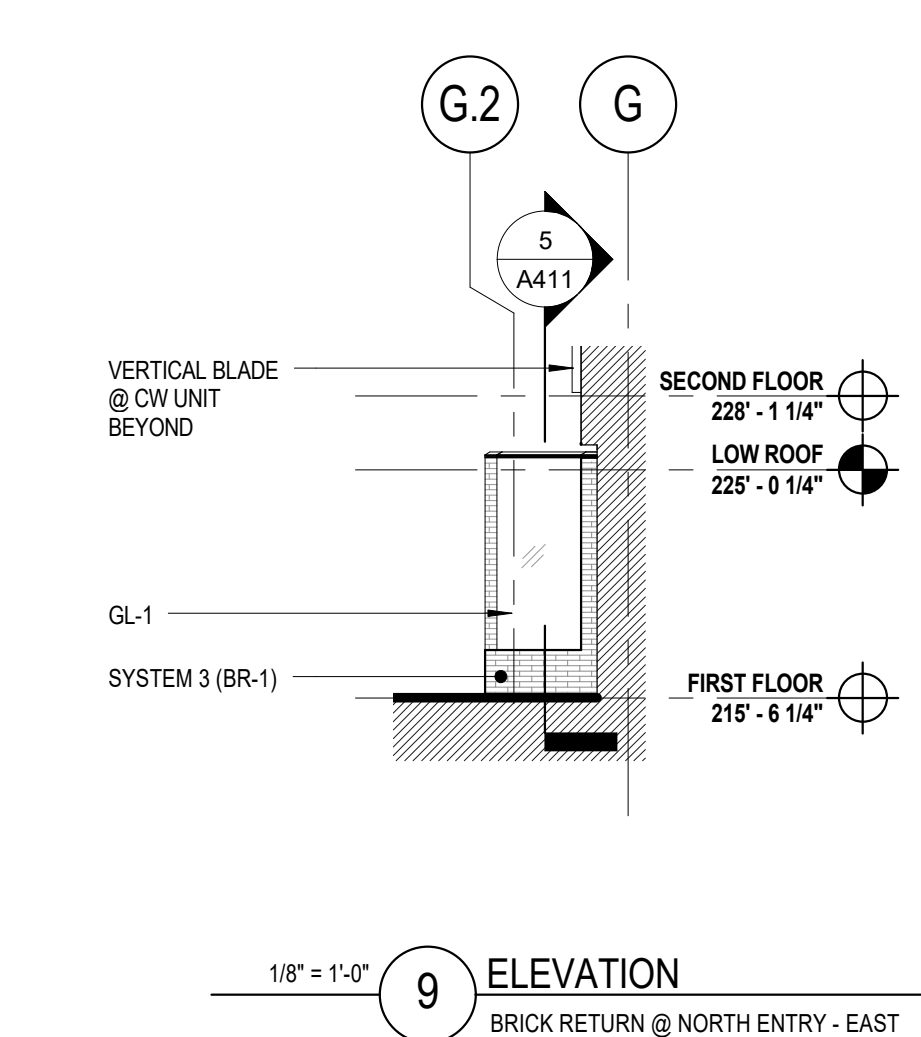
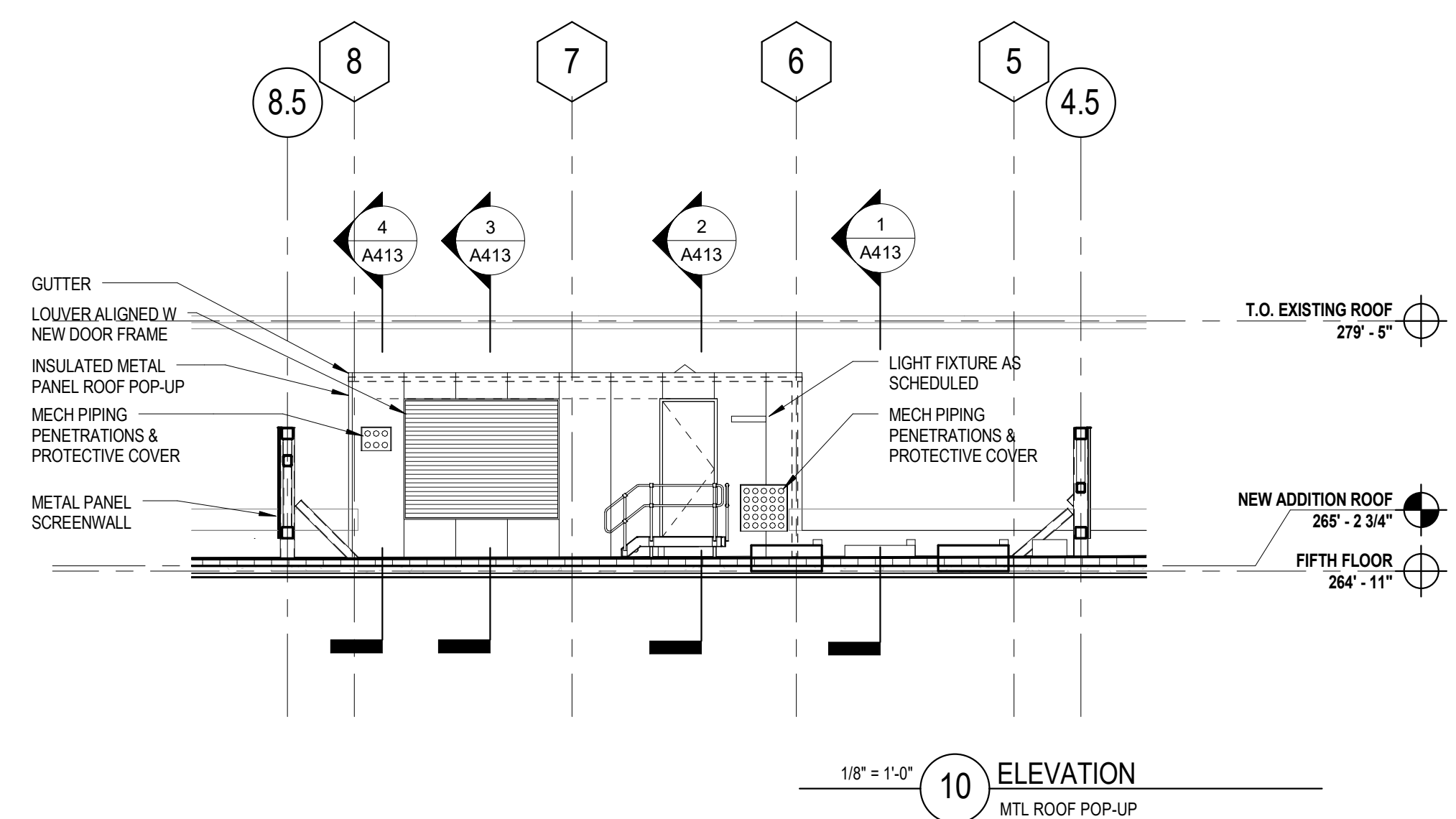
A300

NOTES

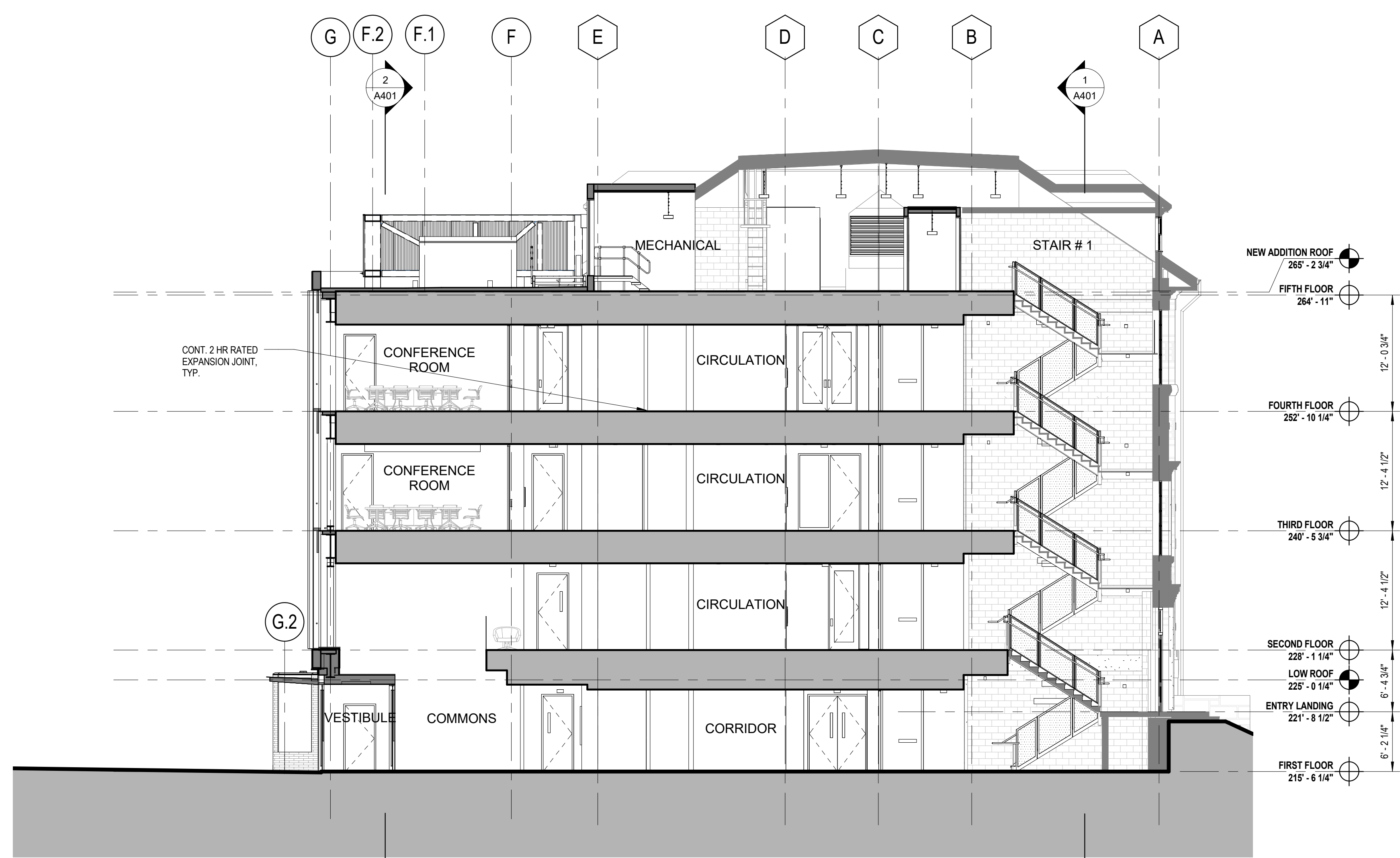
1. REFER TO WINDOW REPLACEMENT PACKAGE (SHEET A424.1) FOR WINDOW SCOPE.
2. REFER TO MASONRY REPAIR PACKAGE (SHEETS A424.2, A424.3, A424.4) FOR MASONRY SCOPE.
3. COORDINATE ALL EXTERIOR SCOPE. SEE A301.
4. SEE SLATE SHINGLE REPAIR AND EXTERIOR FINISH CARPETRY SPECS FOR MISC. REPAIR QUANTITIES.



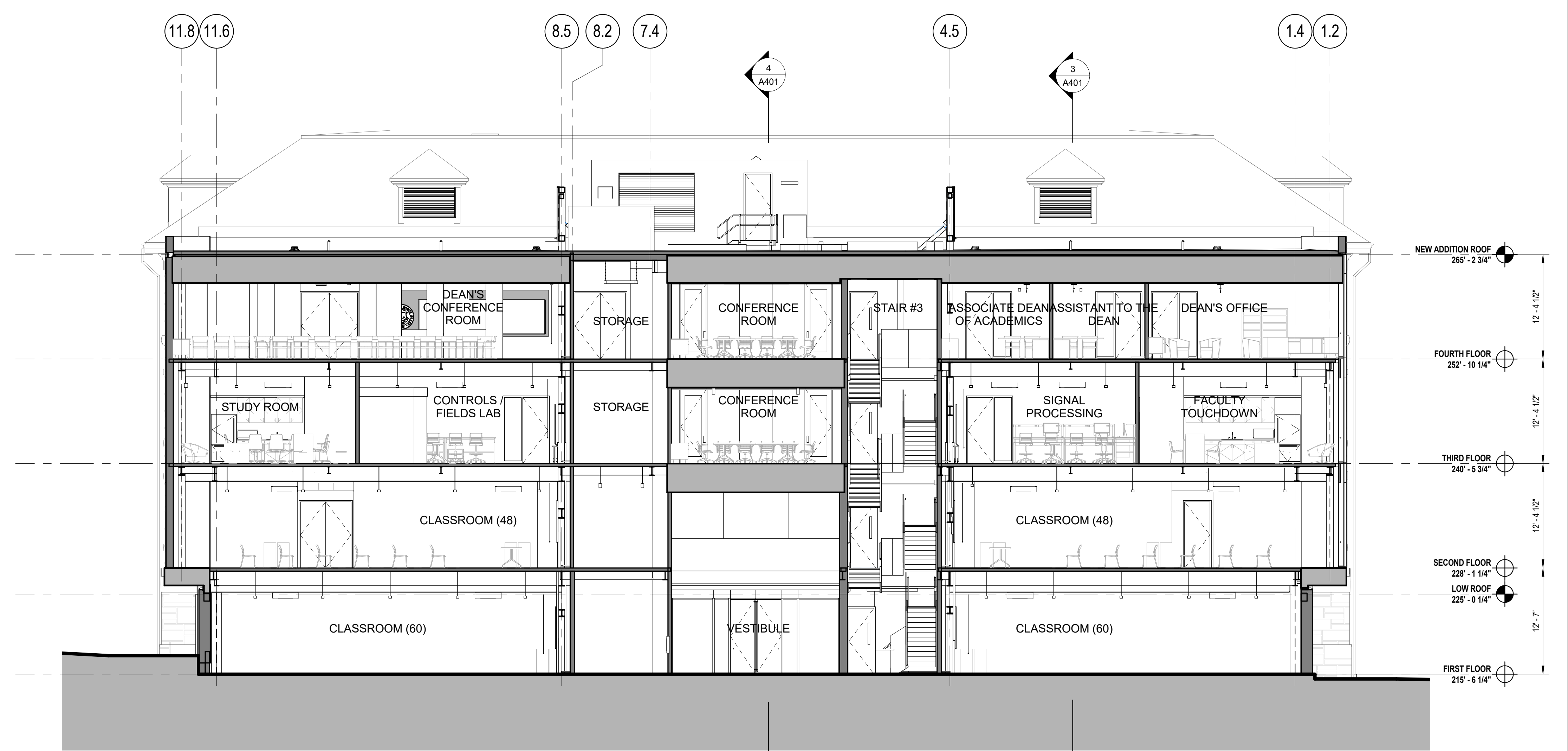
EXTERIOR SYSTEMS (NEW ADDITION) - SEE PLANS FOR LOCATIONS	
SYSTEM 1A:	CURTAINMALL W/ HORIZONTAL MULLION TRIM AT FLOOR LINE
SYSTEM 1B:	CURTAINMALL W/ NO EXTERIOR EXPOSED TRIM
SYSTEM 3:	BRICK WALL SYSTEM BR-1 BRICK TYPE 1 BR-2 BRICK TYPE 2
SYSTEM 4:	PANELIZED ALUMINUM RAINSCREEN (SEE A300 PLANS FOR VERT. MODULE LOCATIONS)
CW B1:	4" CURTAINMALL BLADE 1 (SEE PLANS & A431 FOR DETAIL)
CW B2:	8" CURTAINMALL BLADE 2 (SEE PLANS & A431 FOR DETAIL)
SB 1:	CW SHADOW BOX FINISHED ON TWO SIDES (FRONT & BOTTOM)
SB 2:	CW SHADOW BOX FINISHED ON THREE SIDES (FRONT, BOTTOM & BACK); SB 2 IS TYPICAL U.N.O.
EXTERIOR GLASS TYPES (NEW ADDITION)	
GL-1	1" V1-LOW INSULATING H-SHS 1/4" (6mm) CLEAR H-S VE-2M H-Z 12" (13.2mm) AIRSPACE BLACK 1/4" (6mm) CLEAR H-S
GL-2	1" V1-LOW INSULATING H-SHS 1/4" (6mm) CLEAR H-S 12" (13.2mm) AIRSPACE BLACK 1/4" (6mm) CLEAR H-S V175 HIGH OPACITY WHITE VIRASIPAN H3
GL-3	1/4" (6mm) OPTI-WHITE VE4-2M H-Z 12" (13.2mm) AIRSPACE 1/4" (6mm) OPTI-WHITE
GL-4	1/4" (6mm) OPTI-WHITE VE4-2M H-Z 12" (13.2mm) AIRSPACE 1/4" (6mm) OPTI-WHITE



CONDITION OF USE
DRAWING ISSUE
PROJECT: 15085.11
SCALE: As indicated
ARCHITECTURE
ELEVATIONS - NEW ADDITION
NUMBER: A301



1/8" = 1'-0" 4 BUILDING SECTION
CROSS SECTION @ STAIR 1



1/8" = 1'-0" 2 BUILDING SECTION
SECTION @ ADDITION LOOKING SOUTH

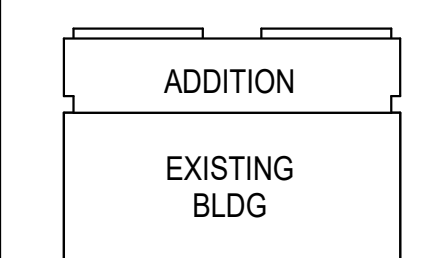


1/8" = 1'-0" 3 BUILDING SECTION
CROSS SECTION LOOKING EAST



1/8" = 1'-0" 1 BUILDING SECTION
SECTION @ EXISTING BUILDING LOOKING NORTH

KEYPLAN:



SEAL:

CONDITION OF USE
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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15088.11

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

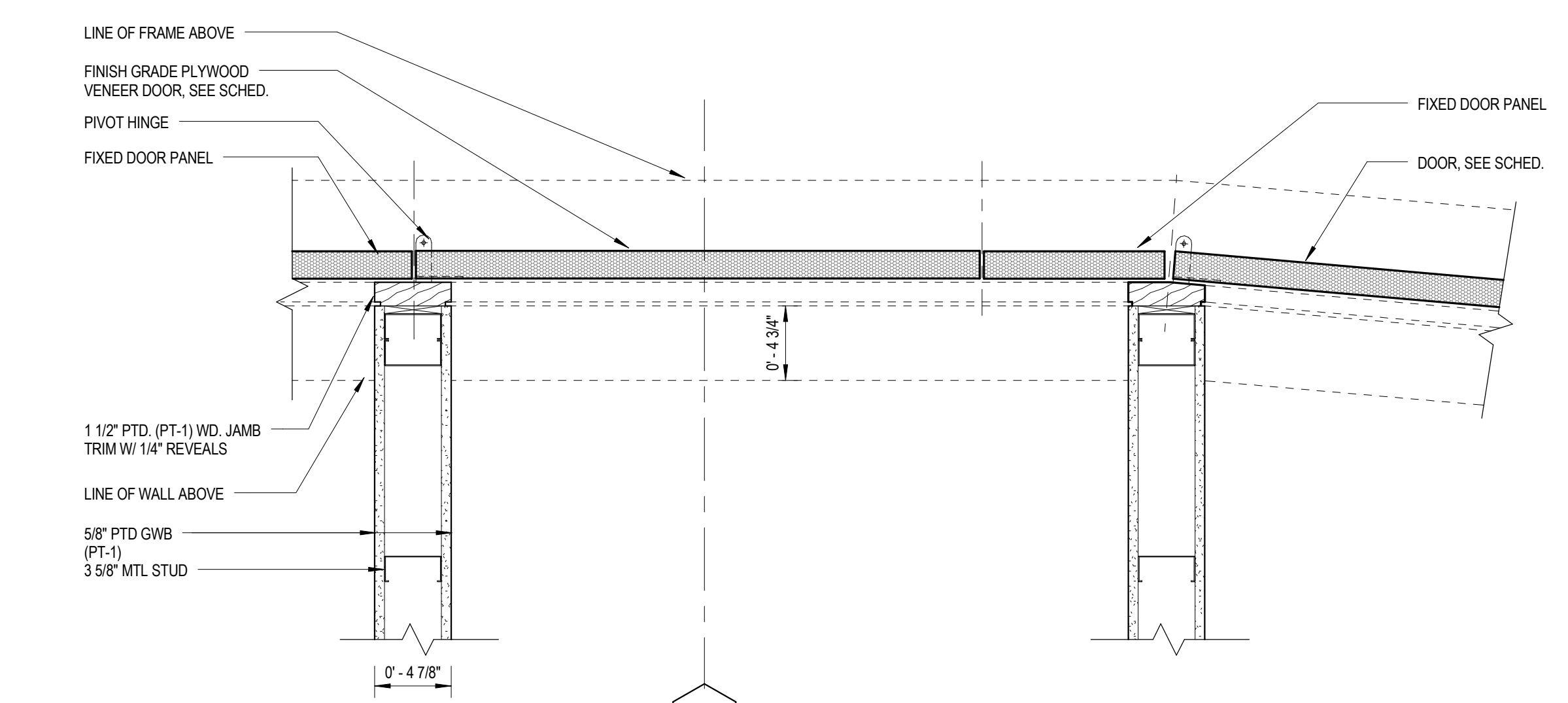
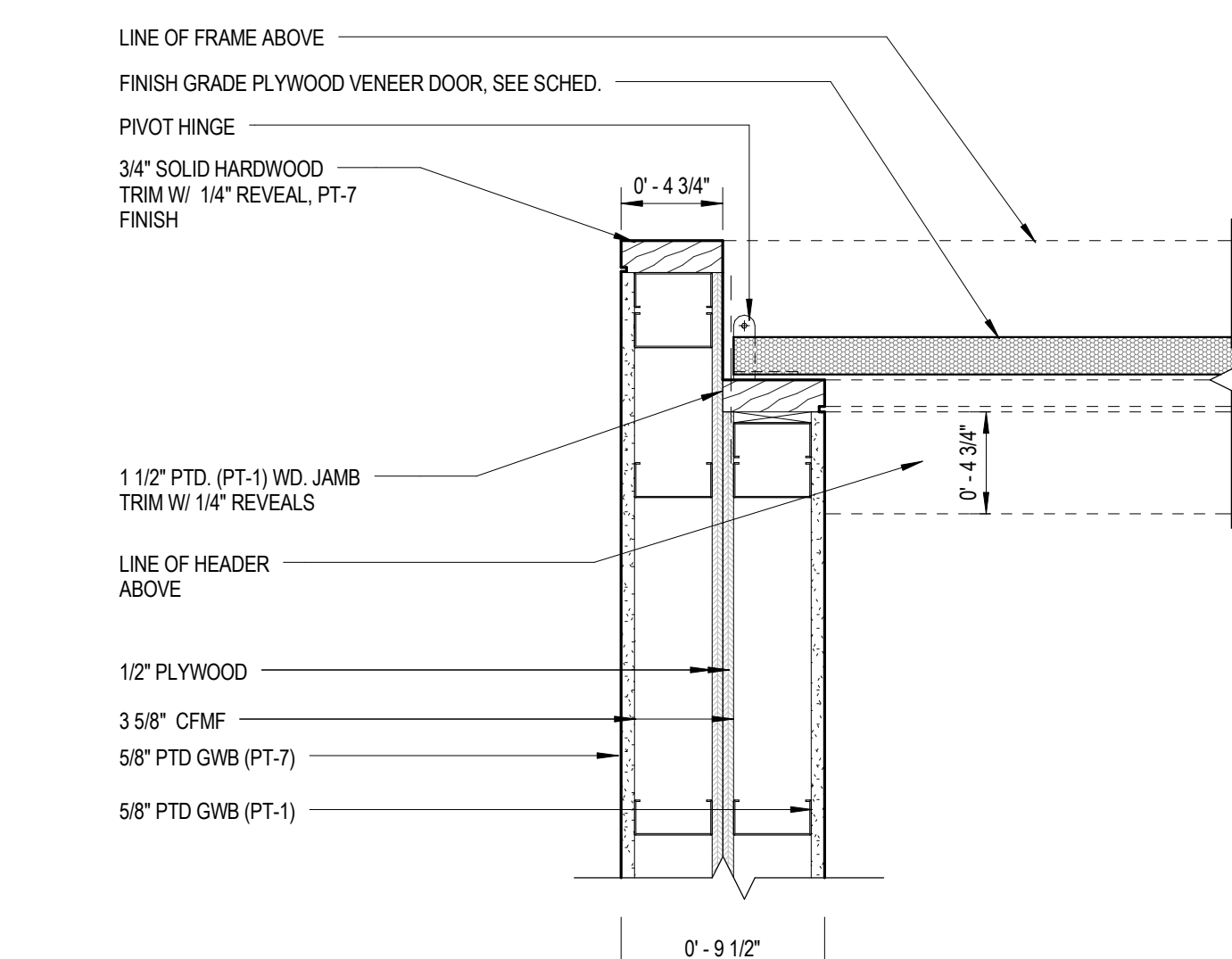
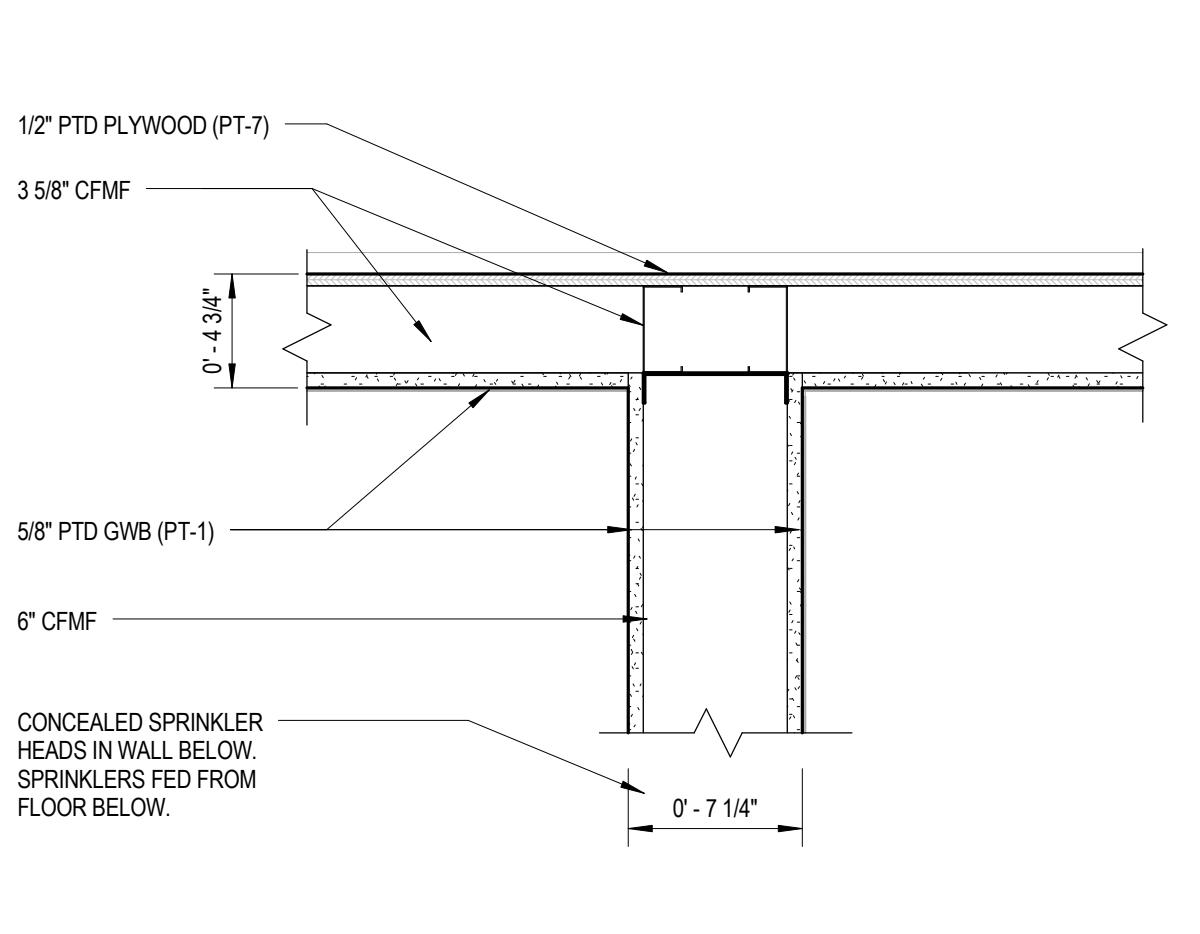
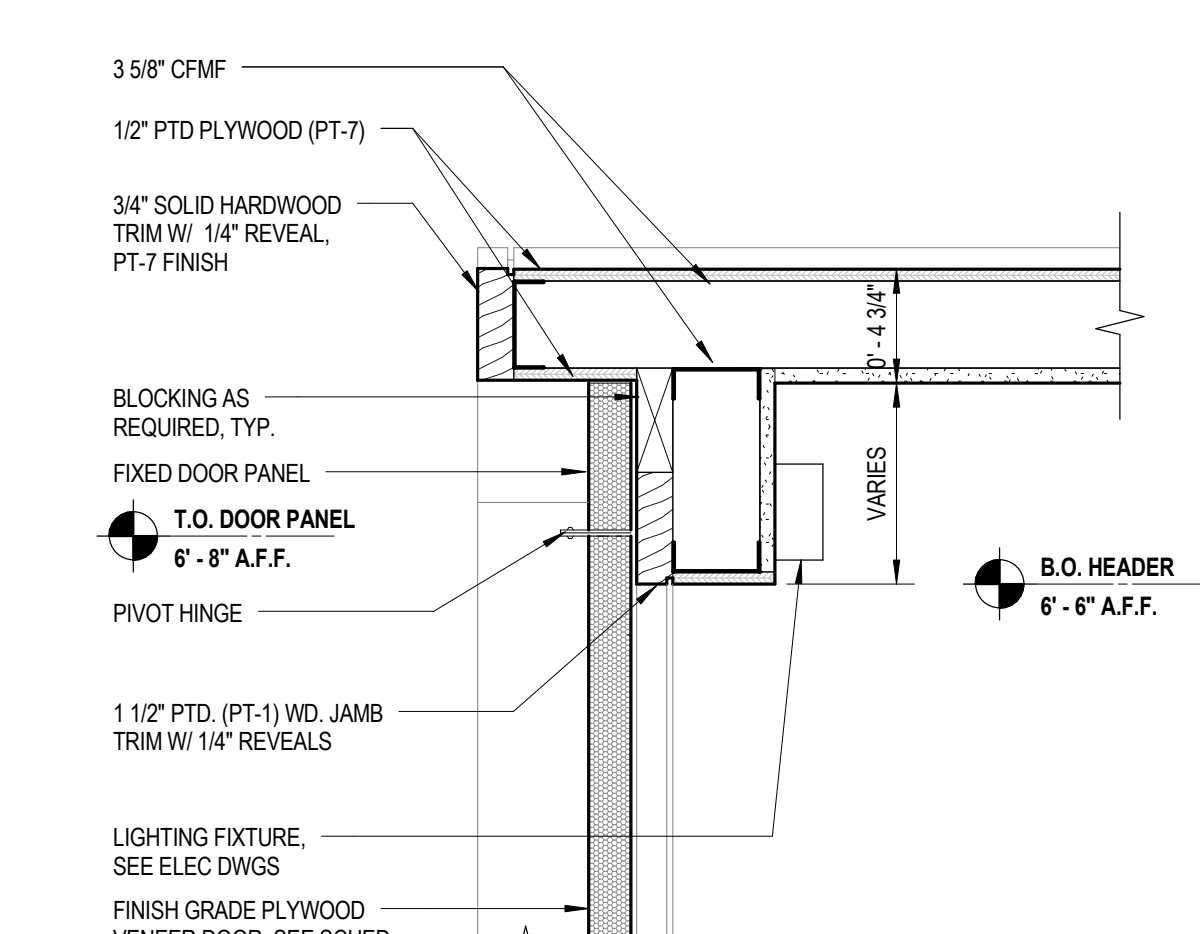
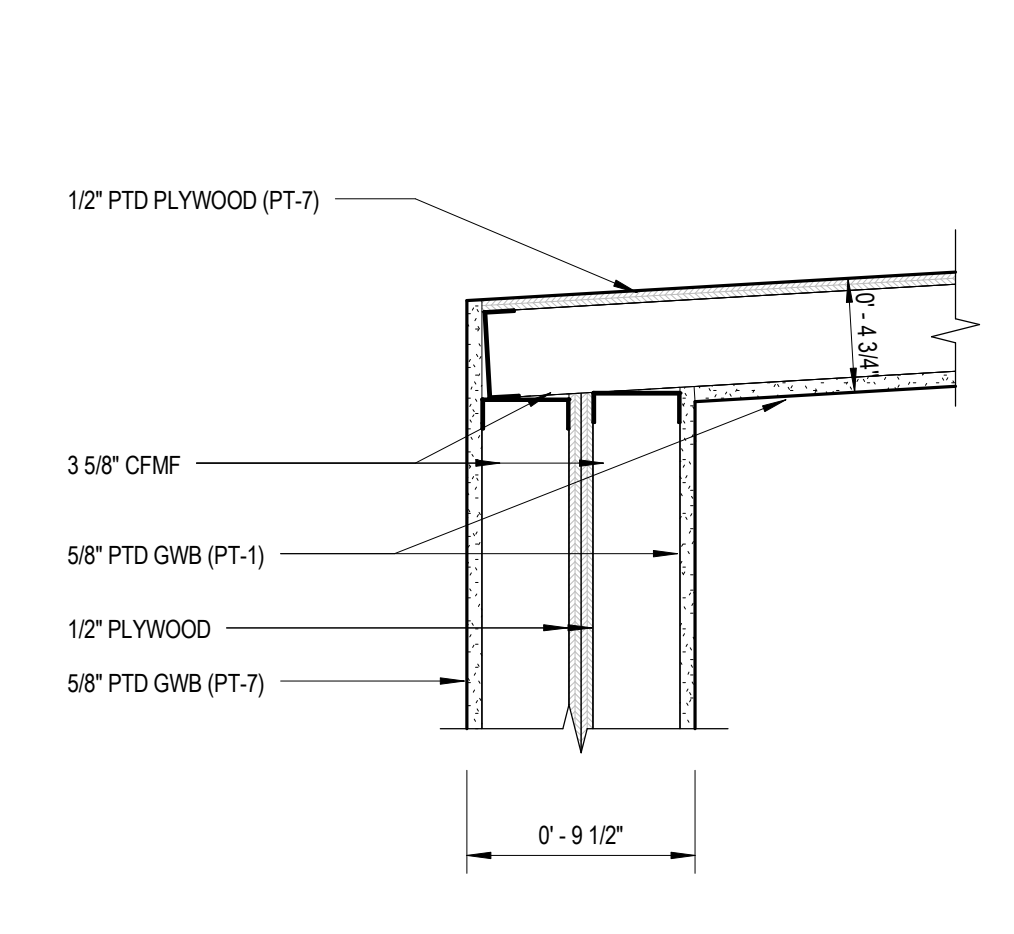
ARCHITECTURE

TITLE:

BUILDING SECTIONS

NUMBER:

A401



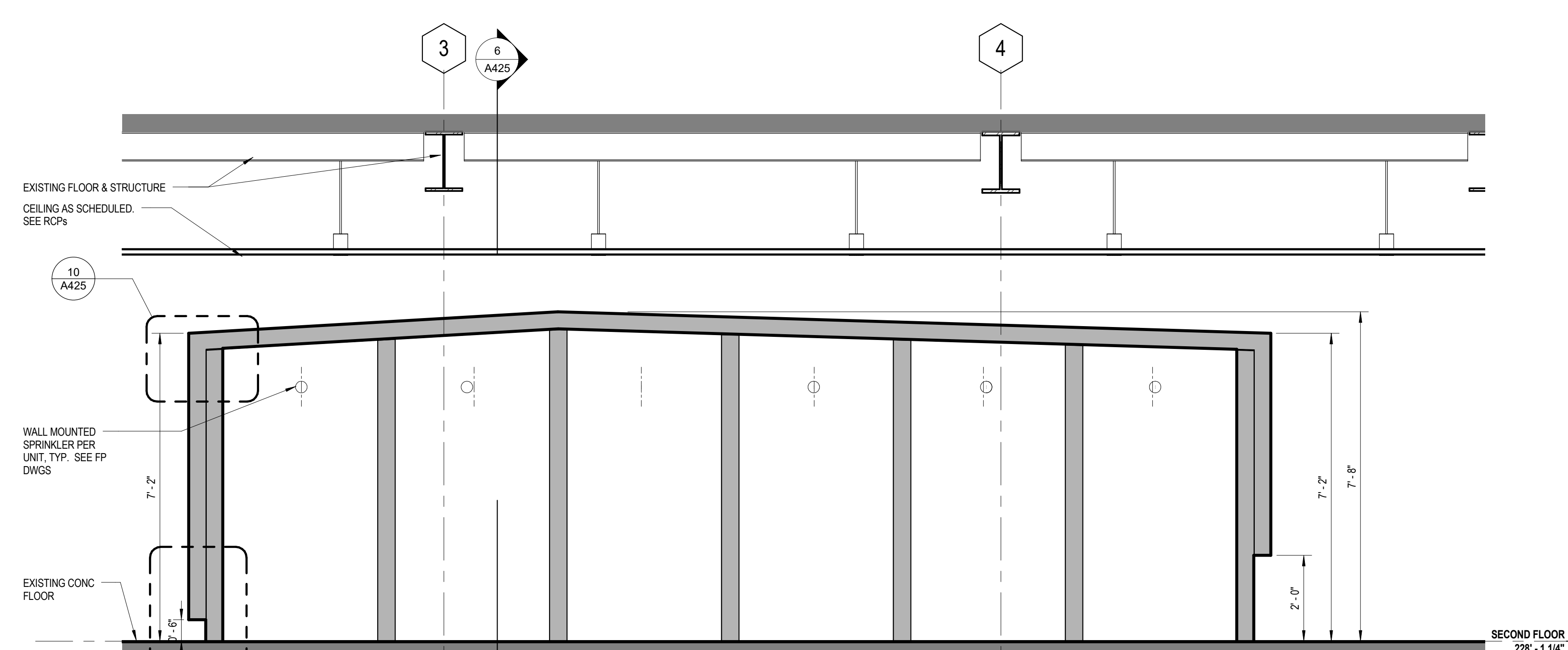
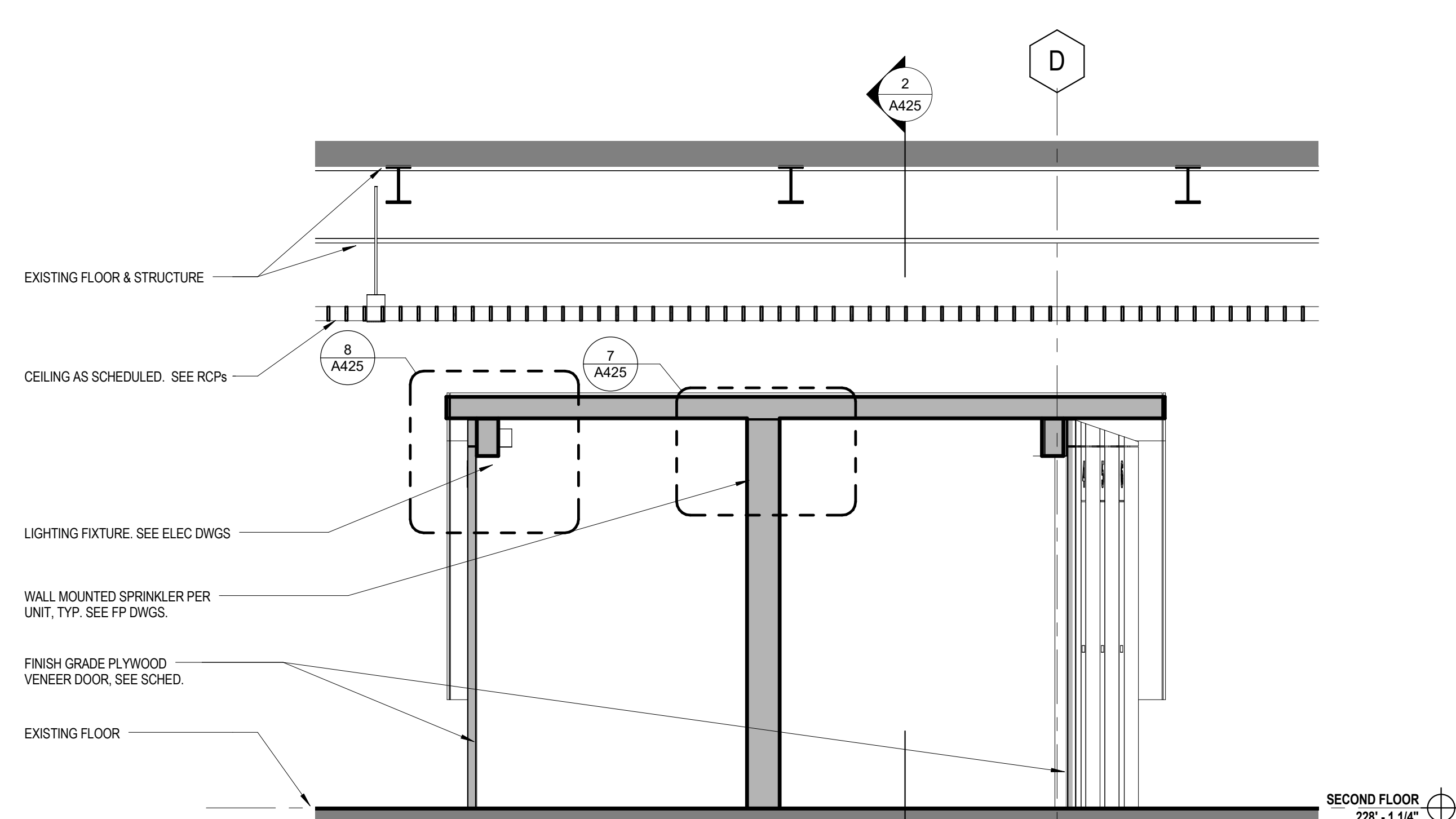
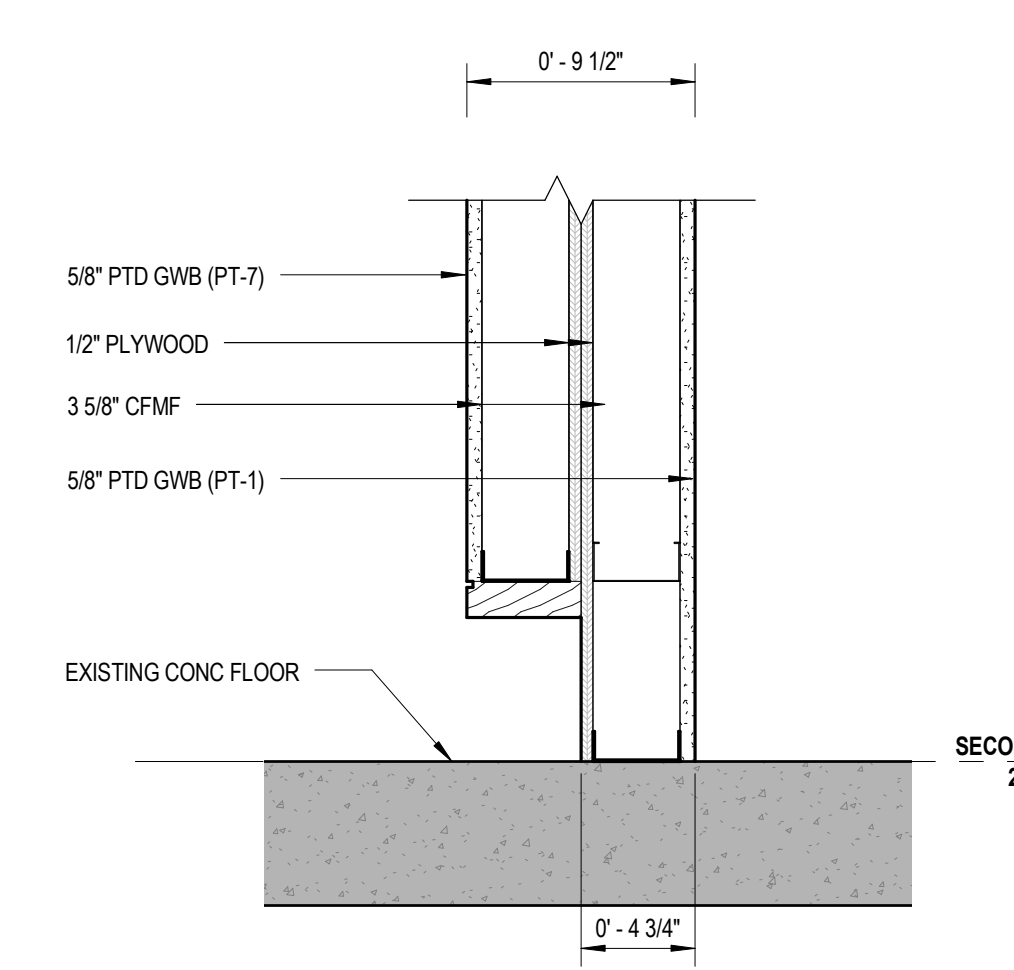
1 1/2" x 1/2" SECTION DETAIL
STUDENT ORG CLOSETS EXTERIOR WALL @ HEAD

1 1/2" x 1/2" SECTION DETAIL
STUDENT ORG CLOSET DOORS @ HEAD

1 1/2" x 1/2" SECTION DETAIL
STUDENT ORG CLOSETS @ CENTER WALL

1 1/2" x 1/2" PLAN DETAIL
STUDENT ORG CLOSETS @ CORNER

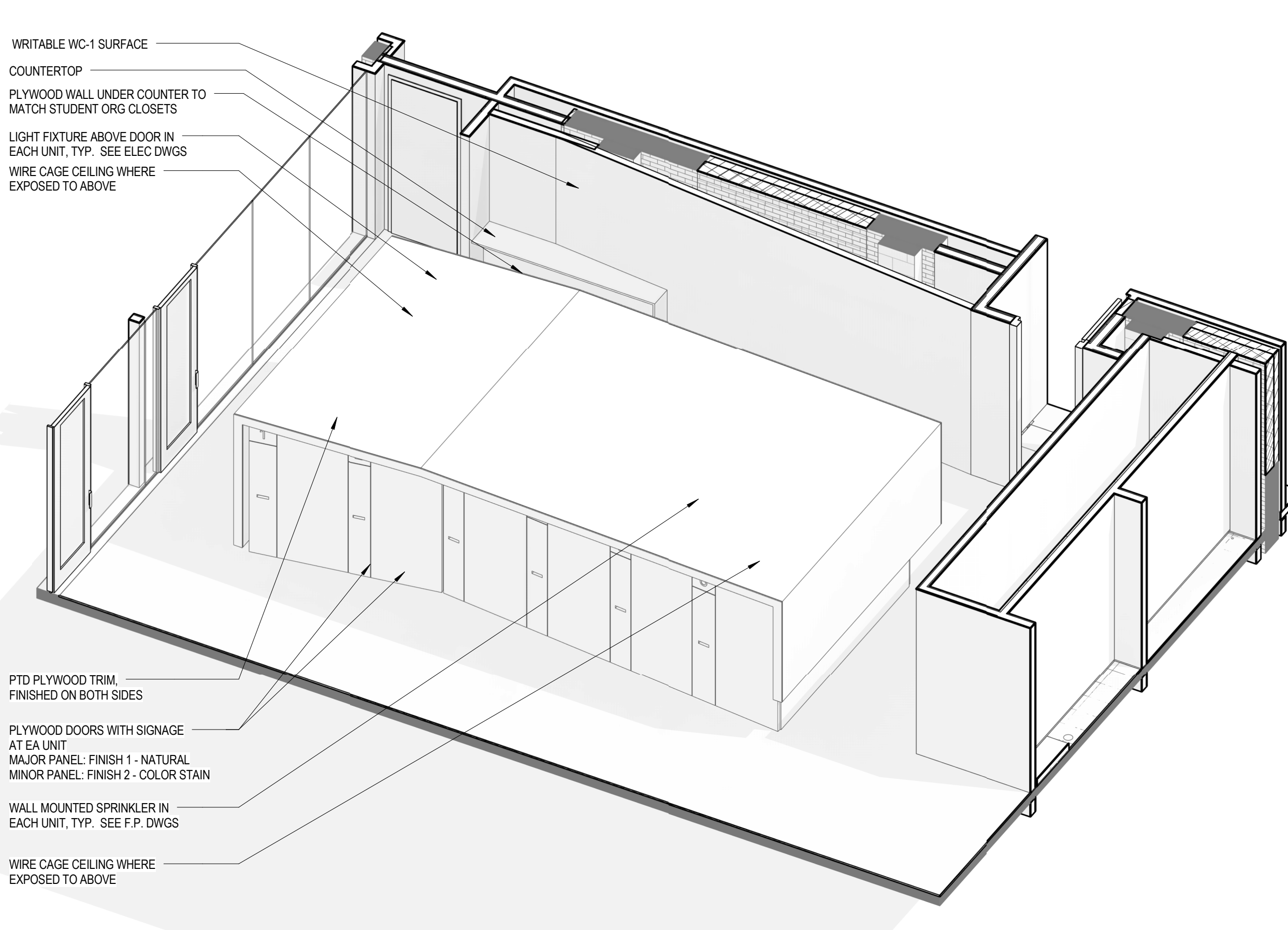
1 1/2" x 1/2" PLAN DETAIL
STUDENT ORG CLOSET DOORS @ HINGE



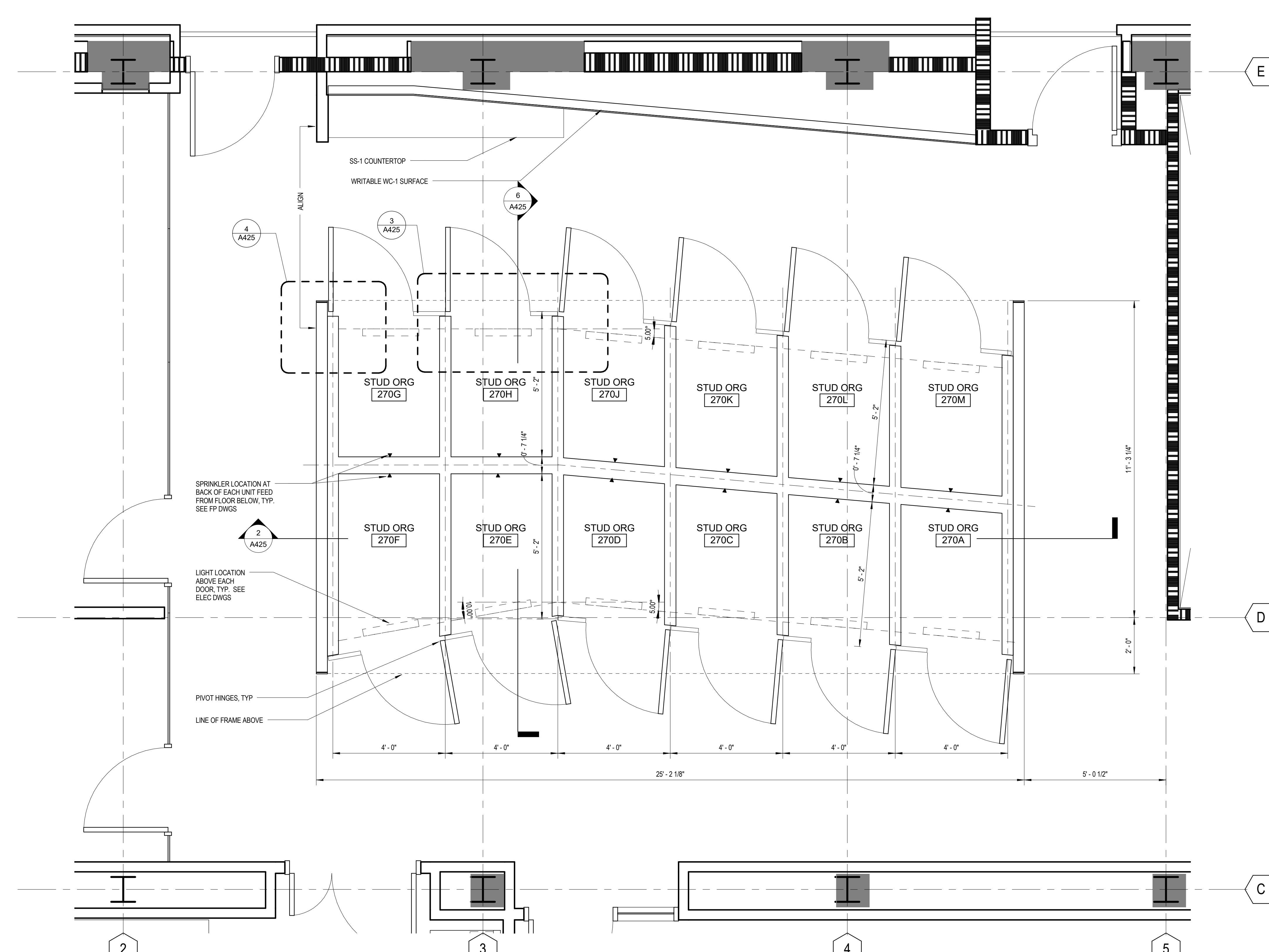
1 1/2" x 1/2" SECTION DETAIL
STUDENT ORG CLOSETS EXTERIOR WALL @ BASE

1/2" x 1/2" SECTION DETAIL
STUDENT ORG CLOSET CROSS SECTION

1/2" x 1/2" SECTION
STUDENT ORG CLOSET SECTION

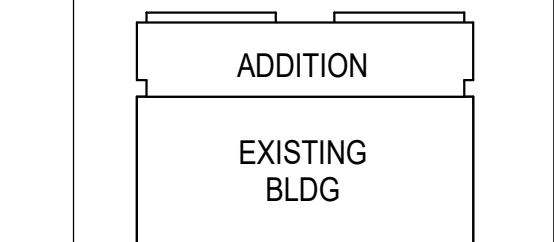


5 PERSPECTIVE
STUDENT ORG CLOSETS



1/2" x 1/2" FLOOR PLAN
STUDENT ORG CLOSET PLAN

KEYPLAN:



SEAL:

CONDITION OF USE
THIS DOCUMENT IS TO BE USED BY THE USER UNDER CONTRACTOR'S RESPONSIBILITY. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.

07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated

ARCHITECTURE

TITLE:

STUDENT ORG CLOSETS

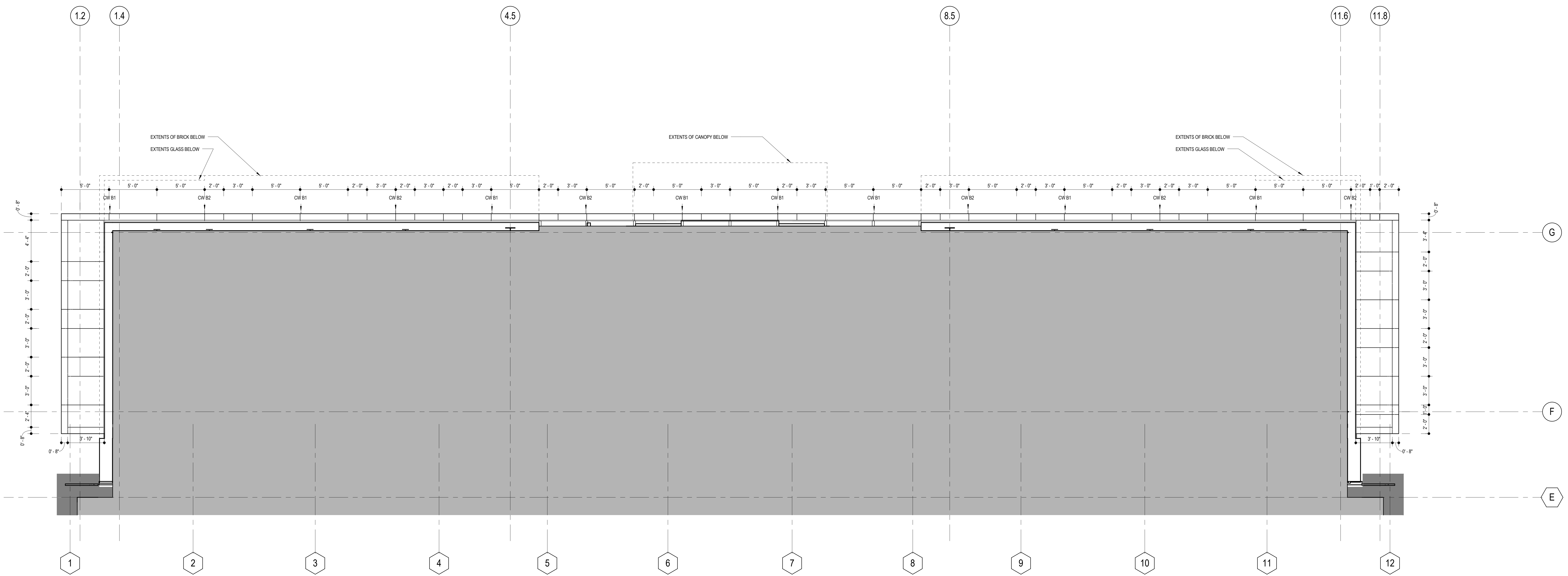
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A425

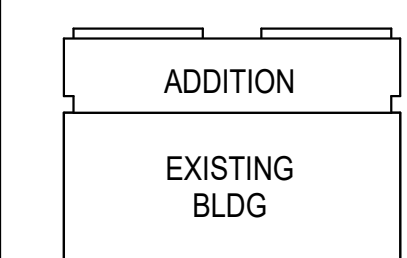
DOOR & FRAME NOTES

1. ALL DOOR GLASS TYPES ARE G-01, UNLESS NOTED OTHERWISE
2. ALL DEMOUNTABLE PARTITION FRAMES TO HAVE CUSTOM COLOR/ FINISH TO MATCH CURTAIN WALL
3. SEE DOOR SCHEDULE FOR DOORS WITH LARGER THAN TYPICAL UNDERCUTS
4. ALL ALUM FRAMES PART OF DEMOUNTABLE PARTITION SYSTEM

		Door Schedule												
Door Number	Room	Door Panel Type	Door Panel Type (Minor)	Door Glass Type	Door Panel Material	Panel Width	Panel Width (Minor)	Panel Height	Door Panel Finish	Door Frame Type	Door Frame Material	Door Fire Rating	Door Hardware	Comments
FIRST FLOOR														
1C2.1	CORRIDOR	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F7	HM	90 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
1C2.2	CORRIDOR	B	B	G-01	HM	3'-1"	3'-1"	7'-10 1/2"	PTD	F1	HM		02	CR, FULL-LENGTH/CONTINUOUS ROTON HINGE
1C3.1	CORRIDOR	B	B	GR-01	HM	2'-11"	2'-11"	7'-10 1/2"	PTD	F1	HM	45 MIN.	03	CR, FULL-LENGTH/CONTINUOUS ROTON HINGE
1C3.2	CORRIDOR	B	B	G-01	HM	3'-1"	3'-1"	7'-10 1/2"	PTD	F1	HM		02	CR, FULL-LENGTH/CONTINUOUS ROTON HINGE
1E1	ELEC RM	A	A		HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	04	LHR ACTIVE, RHM INACTIVE WITH 180° SWING
1E2	UPS CLOSET	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	05	
1E3	ELEC	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
1J1	JANITORIAL / STORAGE	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		07	
1M1	ELEC VESTIBULE	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM	90 MIN.	08	
1M2	MECHANICAL/ SERVICE/ STORAGE	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		09	
1S1.1	STAIR #1	A	A		HM	4'-0"	4'-0"	8'-6"	PTD		HM	45 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
1S2	STAIR #2	B		GR-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F2	HM	45 MIN.	10	
1S3.1	STAIR #3	B		GR-02	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	11	
1S3.2	STAIR #3	A			HM	3'-0"	3'-0"	6'-10 1/2"	PTD	F1	HM	90 MIN.	12	
1S3.3	STAIR #3	A			HM	3'-0"	3'-0"	6'-10 1/2"	PTD	F1	HM	90 MIN.	13	
1T1	MEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
1T2	WOMEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
1T3	GN TOILET	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		15	
1TCL	TELE/DATA	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
1V1.1	VESTIBULE	D	D		GL	3'-0"	3'-0"	9'-0"			ALUM		16	CR, ONE LEAF AUTOMATIC
1V1.2	VESTIBULE	D	D		GL	3'-0"	3'-0"	9'-0"			ALUM		17	ONE LEAF AUTOMATIC
1V1A.1	VESTIBULE	A			HM	3'-0"	3'-0"	6'-10 1/2"	PTD	F1	HM	45 MIN.	18	
1V1A.2	VESTIBULE	A			HM	3'-0"	3'-0"	6'-10 1/2"	PTD	F1	HM	90 MIN.	19	
110	CLASSROOM (60)	B		GR-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	45 MIN.	20	CR
115	SERVICE/ STORAGE	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		21	
120	MATERIALS LAB	B	B	G-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		22	CR
130	TECH OFFICE	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		23	CR, 1" DOOR UNDERCUT
130A.1	SUPPORT	HM			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		24	
130A.2	MATERIALS LAB	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		34	
160.1	LAB CLASSROOM	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		25	CR
160.2	LAB CLASSROOM	B			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		25	
170	GEOMATICS LAB	A	A		HM	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		26	CR
180	MATERIAL TESTING	B	B	G-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	45 MIN.	20	CR
190	CLASSROOM (60)	B		GR-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		20	CR
ENTRY LANDING														
1S1.2	STAIR #1	*	*		WD/GL	3'-1 1/4"	3'-1 1/4"	8'-0"	PTD		WD		27	WHITE BRONZE PULLS, 2 1/4" DOOR PANEL THICKNESS, FULL-LENGTH/CONTINUOUS ROTON HINGE, * SEE ELEVATION ON A302
KIRK HALL - FIRST FLOOR														
103A	ASPHALT LAB	B	B	G-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		22	CR
103B	MECHANICAL	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		35	
SECOND FLOOR														
2C1	CIRCULATION	H	H		HM	3'-0"	3'-0"	9'-0"	PTD	F9	HM	90 MIN.	28	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
2C2	CIRCULATION	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F7	HM	90 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
2C3	CIRCULATION	H	H		HM	3'-6"	3'-6"	9'-0"	PTD	F8	HM	90 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
2E1	ELEC	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
2S1	STAIR #1	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F8	HM	45 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
2S2	STAIR #2	B		GR-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	45 MIN.	11	
2S3	STAIR #3	B		GR-02	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	11	
2T1	MEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
2T2	WOMEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
2TCL	TELE/DATA	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
210.1	CLASSROOM (48)	B		GR-02	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	36	CR
210.2	CLASSROOM (48)	A	A		HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	54	CR
212	TEAM ROOM MEETING	G-01	ALUM/GL		ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR, 1" DOOR UNDERCUT
214	TEAM ROOM MEETING	C		G-01	ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR, 1" DOOR UNDERCUT
216	TEAM ROOM MEETING	C		G-01	ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR, 1" DOOR UNDERCUT
220	SMART LAB	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		30	CR
240.1	CLASSROOM (48)	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		23	CR
240.2	CLASSROOM (48)	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		23	
260.1	CLASSROOM (48)	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		23	
260.2	CLASSROOM (48)	A			WD	3'-0"	3'-0"	7'-10 1/2"	PTD	F5	HM		23	CR
270A	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		31	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270B	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270C	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270D	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270E	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270F	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		33	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270G	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		31	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270H	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270I	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270J	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270K	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270L	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		32	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
270M	STUD ORG	A			PLYWD	3'-0"	3'-0"	6'-8"	PTD		PLYWD		33	FINISH GRADE PLYWOOD DOOR W/ PIVOT HINGES AND SURFACE MOUNTED BOLTS
280	MECHANICS	B	B	G-01	WD	3'-0"	1'-6"	7'-10 1/2"	PTD	F1	HM		38	CR
282	TEAM MEETING ROOM	C		G-01	ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR, 1" DOOR UNDERCUT
284	TEAM MEETING ROOM	C		G-01	ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR
290.1	CLASSROOM (48)	B		GR-02	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	36	CR
290.2	CLASSROOM (48)	HM			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	37	CR
THIRD FLOOR														
3C1	CIRCULATION	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F7	HM	90 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
3C2	CIRCULATION	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F7	HM	90 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
3E1	ELEC	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
3J1	CIRCULATION	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		39	
3S1	STAIR #1	H	H		HM	4'-0"	4'-0"	9'-0"	PTD	F8	HM	45 MIN.	01	PROVIDE HOLD-OPEN HARDWARE AND WIRING AND INTEGRATED, FLUSH PANIC BARS
3S2	STAIR #2	B		GR-01	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	45 MIN.	11	
3S3	STAIR #3	B		GR-02	HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	11	
3T1	MEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
3T2	WOMEN'S	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		14	
3T3	MOTHERS ROOM	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM		15	
3TCL	TELE/DATA	A			HM	3'-0"	3'-0"	7'-10 1/2"	PTD	F1	HM	90 MIN.	06	
300.1	CONFERENCE ROOM	C		G-01	ALUM/GL	3'-0"	3'-0"	8'-10 1/2"	PTD	F6	ALUM		29	CR
300.2	CONFERENCE ROOM	C		G-01										



KEYPLAN:



SEAL:

CONDITION OF USE
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07/05/18 ISSUE 5
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: 1/4" = 1'-0"
 ARCHITECTURE

TITLE:
 LOW ROOF REFLECTED CEILING PLAN

NUMBER:
 A701.1

REFLECTED CEILING PLAN LEGEND		REFLECTED CEILING PLAN NOTES	
	GWB-1 CEILING		RECESSED DOWNLIGHTS
	OPEN CELL CEILING		RECESSED WALL WASHERS
	ACP CEILING		GANGED LIGHT FIXTURE
	FIELD OUT OVERSIZED ACP TILE AREA INDICATED BY HATCH PATTERN		RECESSED LINEAR LIGHT FIXTURE
	EX-1 (EXPOSED) EXPOSED STRUCTURE. SERVICES UNDERGROUND OF FLOOR AND WALLS ARE TO BE PAINTED ABOVE 9'-0" AFF		PENDANT LIGHT FIXTURE
			LINEAR SCORCE
			CEILING GRID WORK POINT
			FA FIRE ALARM
			FP FIRE ALARM PULL
			CEILING SERVICE PANEL (CSP)
			CAMERA
			EXT SIGN
			SMOKE DETECTOR
			FIRE ALARM STROBE
			FIRE ALARM SPEAKER
			MICROPHONE
			SPEAKER
			ACCESS PANEL
			SPRINKLER - WALL MOUNTED
			SPRINKLER
			MANUAL WINDOW ROLLER SHADE (ORCLE REPRESENTS SHADE PULL)
			SEE A603 FOR ADDITIONAL INFO
			CEILING CASSETTE. SEE M-DWGS

- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.
- SEE A603 FOR CEILING FINISH SCHEDULE.
- ALL SPRINKLERS, RECESSED LIGHT FIXTURES, SPEAKERS, DETECTORS AND GRILLES ARE TO BE CENTERED IN CEILING TILE IN BOTH DIRECTIONS UNLESS OTHERWISE NOTED.
- ALL CEILING HEIGHTS MEASURED TO FACE OF FINISHED CEILING.
- PROVIDE UNDERCABINET TASK LIGHTS AT ALL UPPER CABINETS AND SHELVES UNLESS OTHERWISE NOTED.
- AT CEILING JOINTS PROVIDE REGULAR CUT AND FINISHED REGULAR EDGES FOR PANELS ADJACENT TO 6" NOMINAL LINEAR LIGHT FIXTURES.
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL FIXTURES AND TYPES.
- SEE MECHANICAL DRAWINGS FOR MEP COORDINATION SECTION.
- PROVIDE GYP. BD. SOFFIT ABOVE ALL WALL CABINETS.
- SEE MECHANICAL ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT AND FIXTURE LOCATIONS IN THE MECHANICAL PENTHOUSE.
- SEE MECHANICAL DRAWINGS FOR MEP COORDINATION SECTION.
- PATCH DAMAGED FLOOR JOISTS AND BEAMS PRIOR TO INSTALLATION OF NEW FINISHES. REVIEW LOCATIONS WITH DESIGN AGENT AFTER DEMOLITION.
- MEP SYSTEMS TO BE INSTALLED ABOVE PAINT DATUM LINE. PAINT ALL HANGERS P-2.
- PROVIDE OVERSIZED FLOOR TRIMMED ACoustICAL CEILING PANELS. CUT ROUTE TEGULAR EDGE TO MATCH AND LOCATE THAT EDGE TO THE ADJACENT WALL SIDE.
- ALL ACT PERIMETERS AT PARTITIONS ARE C-1, UNLESS NOTED OR DETAILED OTHERWISE.
- SEE A603 FINISH SCHEDULE FOR ADDITIONAL INFORMATION ON ROLLER SHADES RS-1 & RS-2. SHADE POCKETS ARE CONTINUOUS WHERE NOTED, BUT ROLLER SHADES ARE OMITTED AT SECTIONS WHERE DOOR OPENINGS OCCUR.
- NEW ROLLER SHADES INSTALLED IN EXISTING BUILDING ARE TO OVERLAP WINDOW OPENINGS. ALIGN W/ BLDG EDGES +1-1/2" EACH SIDE.



1/4" = 1'-0" REFLECTED CEILING PLAN
THIRD FLOOR REFLECTED CEILING PLAN

REFLECTED CEILING PLAN LEGEND

GWB-1 CEILING	RECESSED DOWNLIGHTS	RECESSED WALL WASHERS	SUPPLY DIFFUSER	CAMERA	PROJECTION & SCREEN
OPEN CELL CEILING	GANGED LIGHT FIXTURE	RECESSED LINEAR LIGHT FIXTURE	RETURN/EXHAUST DIFFUSER	SMOKE DETECTOR	MANUAL WINDOW ROLLER SHADE (CIRCLE REPRESENTS SHADE PULL)
ACP CEILING	PENDANT LIGHT FIXTURE	LINEAR SCIENCE	LINEAR DIFFUSER	FIRE ALARM STROBE	SEE A803 FOR ADDITIONAL INFO
FIELD CUT OVERSIZED ACP TILE AREA INDICATED BY HATCH PATTERN	CEILING GRID WORK POINT	CEILING SERVICE PANEL (CSP)	FA FIRE ALARM	SPEAKER	SEE A803 FOR ADDITIONAL INFO
EX-1 (EXPOSED) EXPOSED STRUCTURE SERVICES UNDERSIDE OF FLOOR AND WALLS ARE TO BE PAINTED ABOVE 9'-0" AFF			FP FIRE ALARM PULL	ACCESS PANEL	SEE A803 FOR ADDITIONAL INFO
				SPRINKLER - WALL MOUNTED	SEE A803 FOR ADDITIONAL INFO
				SPRINKLER	SEE A803 FOR ADDITIONAL INFO

REFLECTED CEILING PLAN NOTES

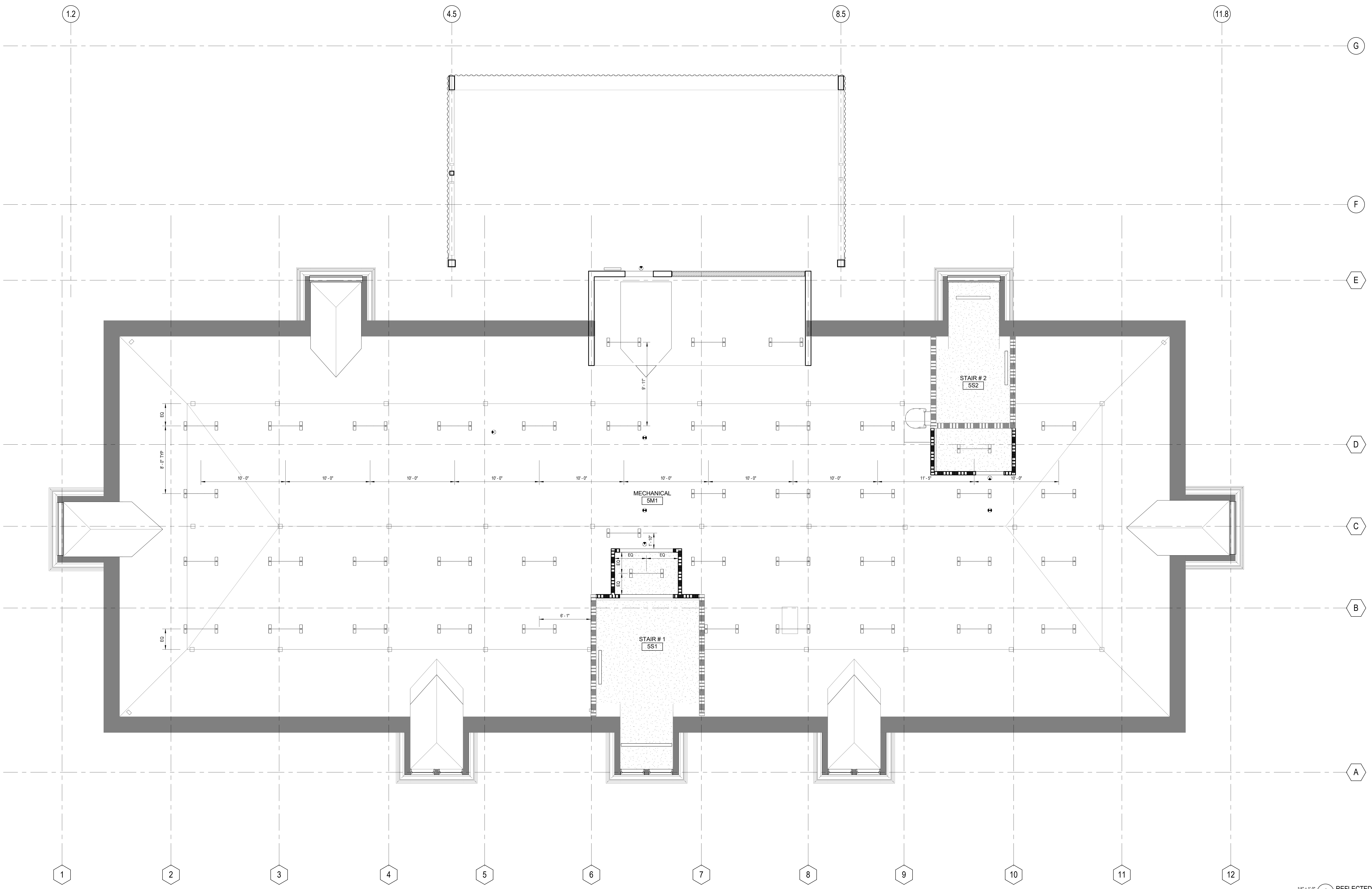
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.
- SEE A803 FOR CEILING FINISH SCHEDULE.
- ALL SPRINKLERS, RECESSED LIGHT FIXTURES, SPEAKERS, DETECTORS AND GRILLES ARE TO BE CENTERED IN CEILING TILE IN BOTH DIRECTIONS UNLESS OTHERWISE NOTED.
- ALL CEILING HEIGHTS MEASURED TO FACE OF FINISHED CEILING.
- PROVIDE UNDERCABINET TASK LIT. AT ALL UPPER CABINETS AND SHELVES UNLESS OTHERWISE NOTED.
- AT CEILING WITH REGULAR ACT PROVIDE FACTORY CUT AND FINISHED REGULAR EDGES FOR PANELS ADJACENT TO 6" NOMINAL LINEAR LIGHT FIXTURES.
- SEE ELECTRICAL DRAWINGS FOR ADDITIONAL FIXTURES AND TYPES.
- PROVIDE GYP. BD. SOFFIT ABOVE ALL WALL CABINETS.
- SEE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT AND FIXTURE LOCATIONS IN THE MECHANICAL PENTHOUSE.
- SEE MECHANICAL DRAWINGS FOR MEP COORDINATION SECTION.
- PATCH DAMAGED FLOORING/CEILING AND BEAMS PRIOR TO INSTALLATION OF NEW FINISHES. REVIEW LOCATIONS WITH DESIGN AGENT AFTER DEMOLITION.
- MEP SYSTEMS TO BE INSTALLED ABOVE PART DATUM LINE. PAINT ALL HANGERS P-2.
- PROVIDE OVERSIZED FIELD-FRAMED ACoustICAL CEILING PANELS. CUT TO FIT REGULAR EDGE TO MATCH AND LOCATE THAT EDGE TO THE ADJACENT WALL SIDE.
- ALL ACT PERIMETERS AT PARTITIONS ARE CFT-1 UNLESS NOTED OR DETAILED OTHERWISE.
- SEE A803 FINISH SCHEDULE FOR ADDITIONAL INFORMATION ON ROLLER SHADES. RS-1 SHADE POCKETS ARE CONTINUOUS WHERE NOTED, BUT ROLLER SHADES ARE OMITTED AT SECTIONS WHERE DOOR OPENINGS OCCUR.
- NEW ROLLER SHADES INSTALLED IN EXISTING BUILDING ARE TO OVERLAP WINDOW OPENINGS, ALIGN W/ SILL EDGES @ 1-1/2" EACH SIDE.



1/8" = 1'-0" 1 REFLECTED CEILING PLAN
FOURTH FLOOR REFLECTED CEILING PLAN

REFLECTED CEILING PLAN LEGEND			
	GWB-1 CEILING		RECESSED DOWNLIGHTS
	OPEN CELL CEILING		RECESSED WALL WASHERS
	ADP CEILING		CHANGED LIGHT FIXTURE
	FIELD CUT OVERSIZED ADP TILE AREA INDICATED BY HATCH PATTERN		RECESSED LINEAR LIGHT FIXTURE
	EX-1 (EXPOSED) EXPOSED STRUCTURE, SERVICES, UNDERSIDE OF FLOOR AND WALLS ARE TO BE PAINTED ABOVE 9'-0" AFF		PENDANT LIGHT FIXTURE
			LINEAR SCOOPE
			CEILING GRID WORK POINT
			CEILING SERVICE PANEL (CSP)
			SUPPLY DIFFUSER
			RETURN/EXHAUST DIFFUSER
			LINEAR DIFFUSER
			FA FIRE ALARM
			FP FIRE ALARM PULL
			CAMERA
			EXIT SIGN
			SMOKE DETECTOR
			FIRE ALARM STROBE
			FIRE ALARM SPEAKER
			MICROPHONE
			SPEAKER
			ACCESS PANEL
			SPRINKLER - WALL MOUNTED
			SPRINKLER
			PROJECTION & SCREEN
			MANUAL WINDOW ROLLER SHADE (CIRCLE REPRESENTS SHADE PULL)
			CEILING CASSETTE; SEE M.DWG.S

- REFLECTED CEILING PLAN NOTES**
- REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.
 - SEE A603 FOR CEILING FINISH SCHEDULE.
 - ALL SPRINKLERS, RECESSED LIGHT FIXTURES, SPEAKERS, DETECTORS AND GRILLES ARE TO BE CENTERED IN CEILING TILE IN BOTH DIRECTIONS UNLESS OTHERWISE NOTED.
 - ALL CEILING HEIGHTS MEASURED TO FACE OF FINISHED CEILING.
 - PROVIDE UNDERCABINET TASK LIGHTS AT ALL UPPER CABINETS AND SHELVES UNLESS OTHERWISE NOTED.
 - AT CEILINGS WITH REGULAR ACT PROVIDE FACTORY CUT AND FINISHED REGULAR EDGES FOR PANELS ADJACENT TO 6" NOMINAL LINEAR LIGHT FIXTURES.
 - SEE ELECTRICAL DRAWINGS FOR ADDITIONAL FIXTURES AND TYPES.
 - PROVIDE GYP. BD. SOFFIT ABOVE ALL WALL CABINETS.
 - SEE MECHANICAL ELECTRICAL PLUMBING AND FIRE PROTECTION DRAWINGS FOR EXACT EQUIPMENT AND FIXTURE LOCATIONS IN THE MECHANICAL PENTHOUSE.
 - SEE MECHANICAL DRAWINGS FOR MEP COORDINATION SECTION.
 - PATCH DAMAGED FLOORING/Ceilings AND BEAMS PRIOR TO INSTALLATION OF NEW FINISHES. REVIEW LOCATIONS WITH DESIGN AGENT AFTER DEMOLITION.
 - MEP SYSTEMS TO BE INSTALLED ABOVE PAINT DATUM LINE. PAINT ALL HANGERS P-2.
 - PROVIDE OVERSIZED FILED TRIMMED ACOUSTICAL CEILING PANELS. CUT PROTECTE REGULAR EDGE TO MATCH AND LOCATE THAT EDGE TO THE ADJACENT WALL SIDE.
 - ALL ACT PERIMETERS AT PARTITIONS ARE C.E.T.1. UNLESS NOTED OR DETAILED OTHERWISE.
 - SEE A603 FINISH SCHEDULE FOR ADDITIONAL INFORMATION ON ROLLERSHADES RS-1 & RS-2. SHADE POCKETS ARE CONTINUOUS WHERE NOTED. BUT ROLLER SHADES ARE LIMITED AT SECTIONS WHERE DOOR OPENINGS OCCUR.
 - NEW ROLLER SHADES INSTALLED IN EXISTING BUILDING ARE TO OVERLAP WINDOW OPENINGS. ALIGN W/ SILL EDGES +/- 1-1/2" EACH SIDE.



THE UNIVERSITY OF RHODE ISLAND

BLISS HALL ADDITION AND RENOVATION

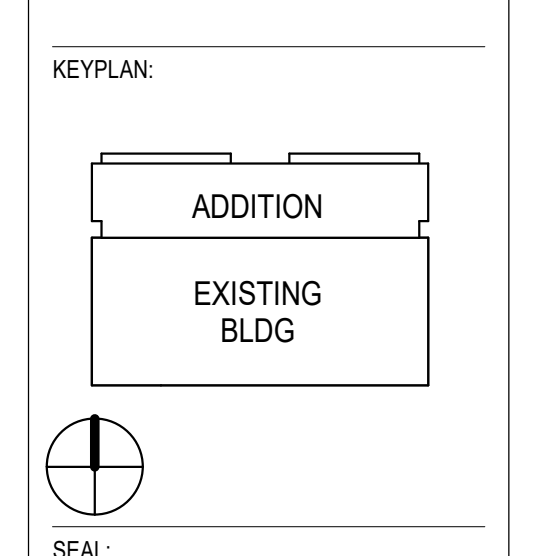
PROJECT NO. KG.G.ENG.R 2017.011

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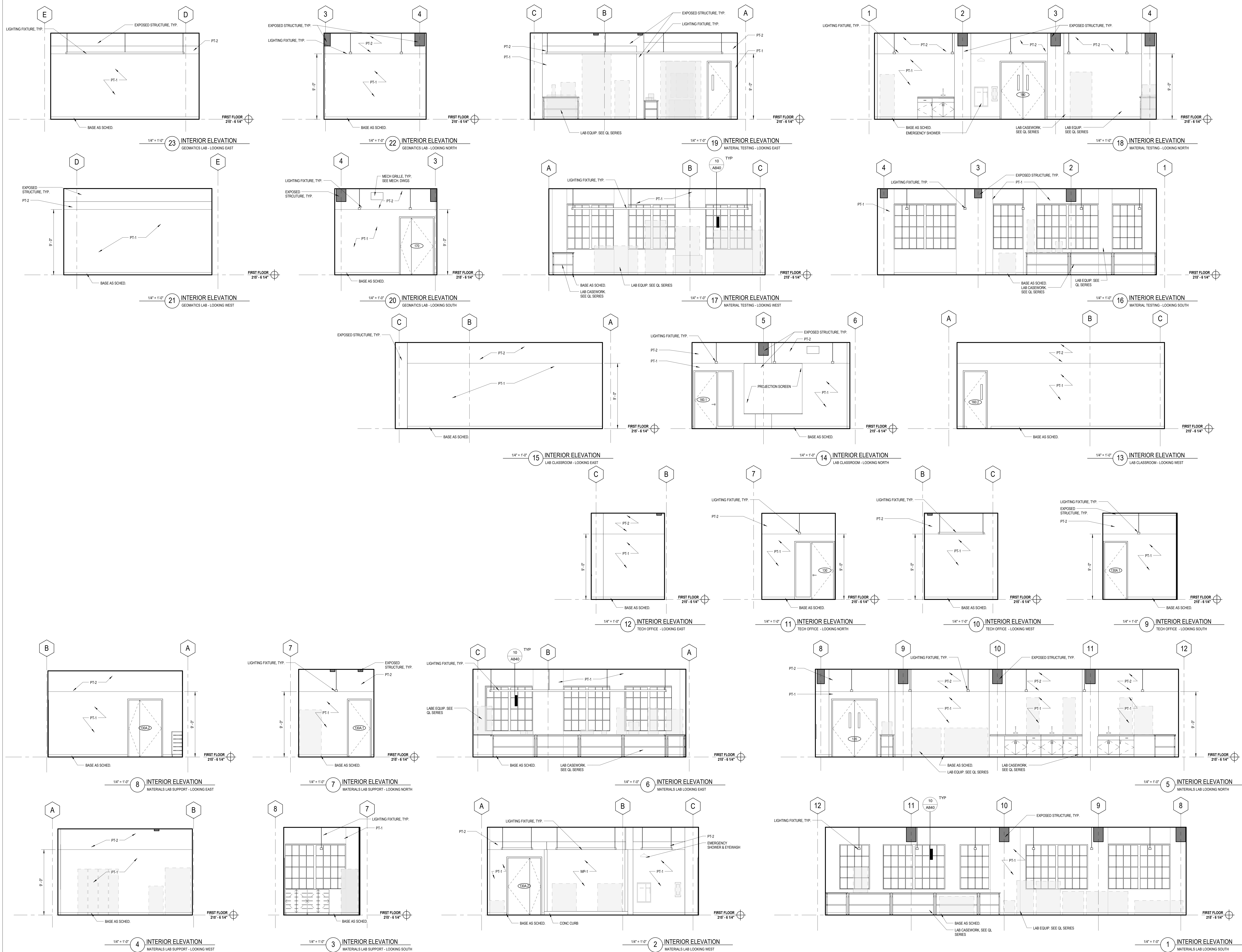
07/05/18 ISSUE 5
DRAWING ISSUE

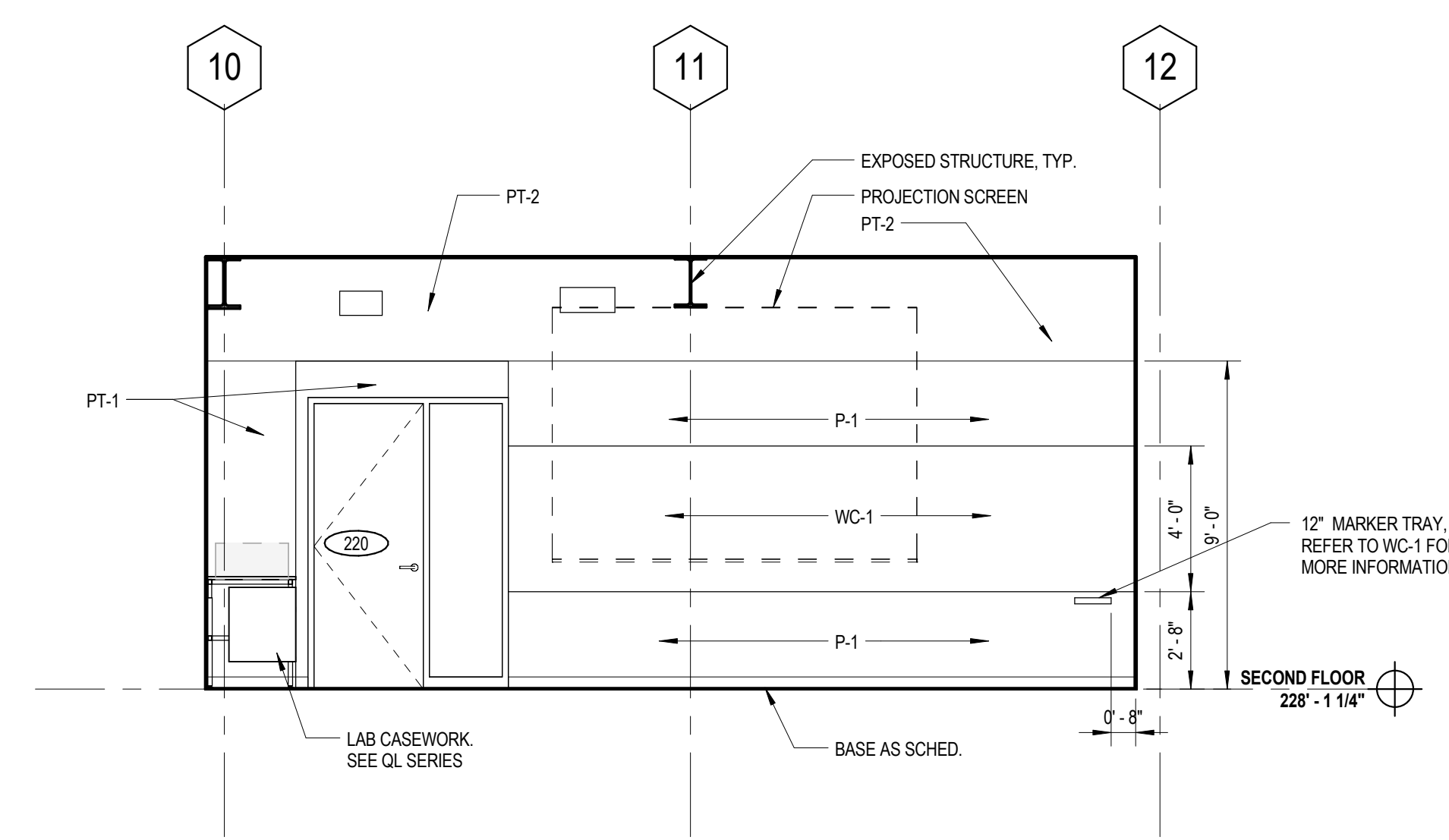
PROJECT: 15085.11
SCALE: As indicated
ARCHITECTURE

FIFTH FLOOR REFLECTED CEILING PLAN

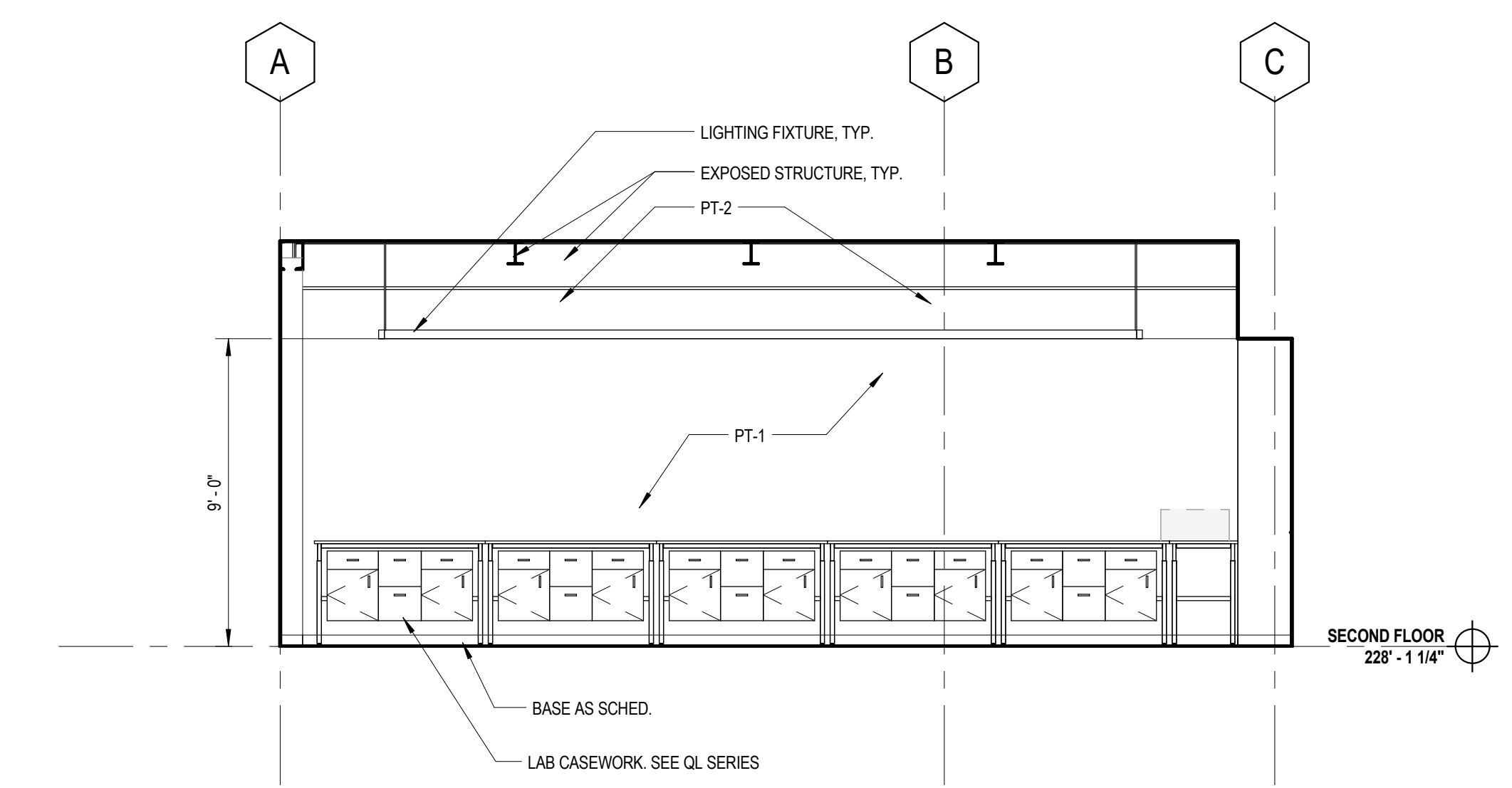
1/4" = 1'-0" 1 REFLECTED CEILING PLAN
FIFTH FLOOR REFLECTED CEILING PLAN

NUMBER: **A705**

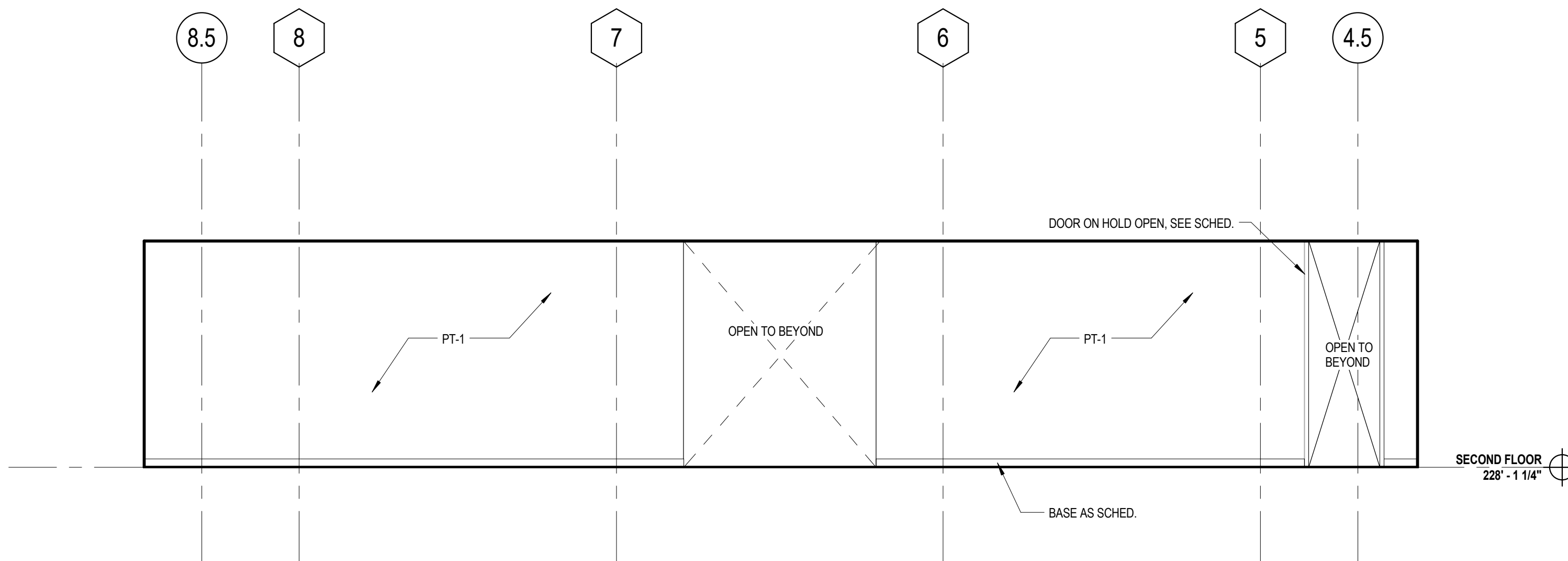




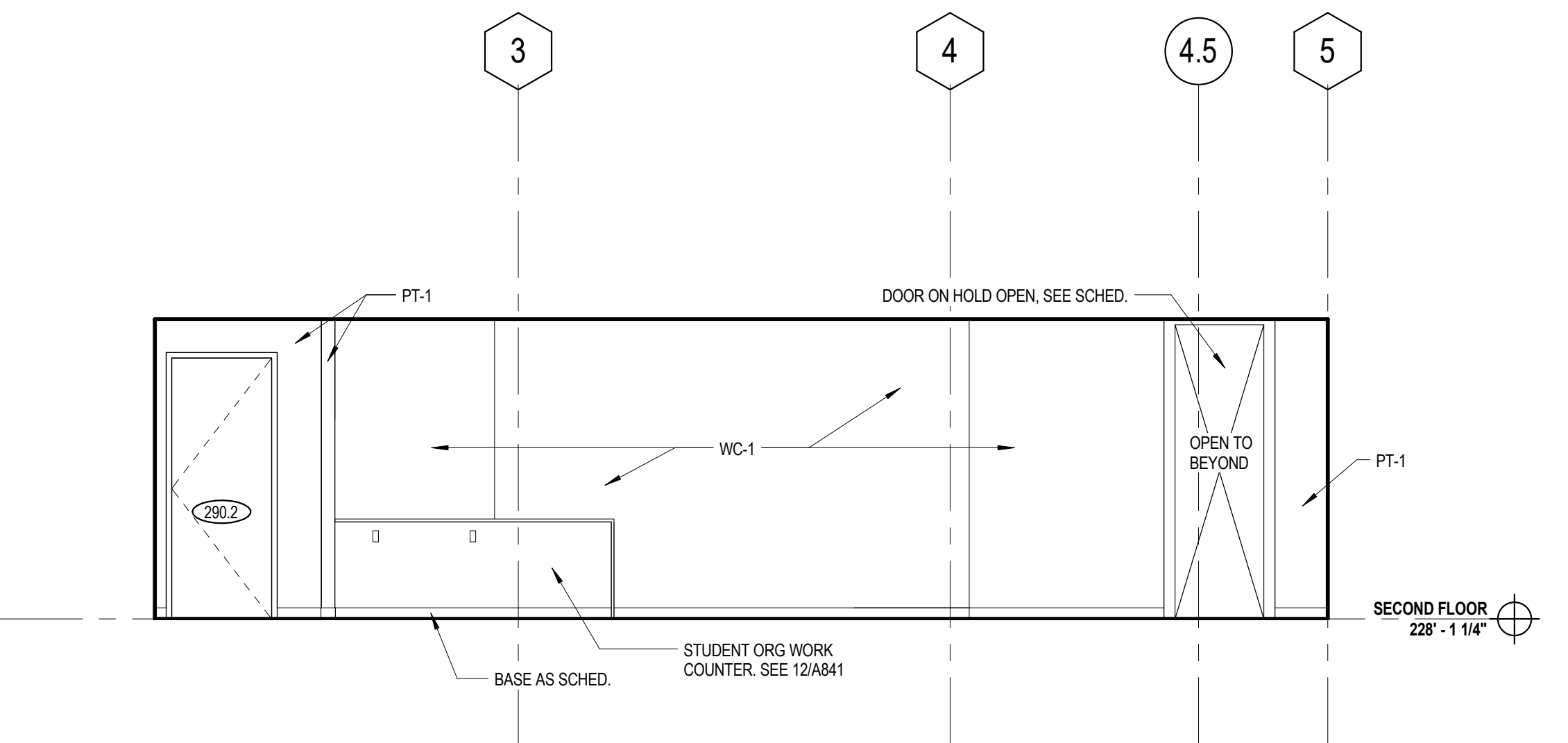
13 INTERIOR ELEVATION
SMART LAB - LOOKING NORTH



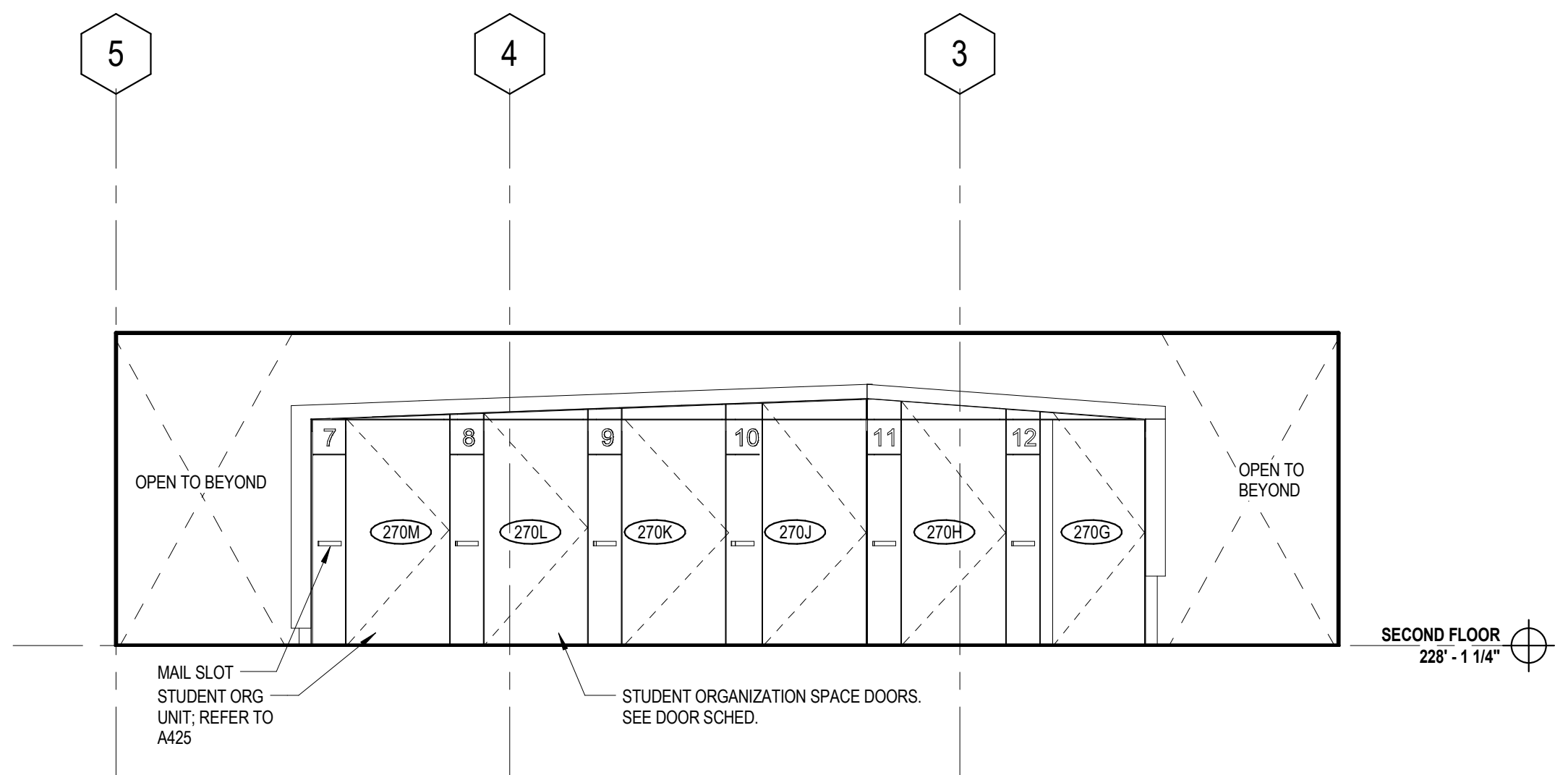
12 INTERIOR ELEVATION
SMART LAB - LOOKING WEST



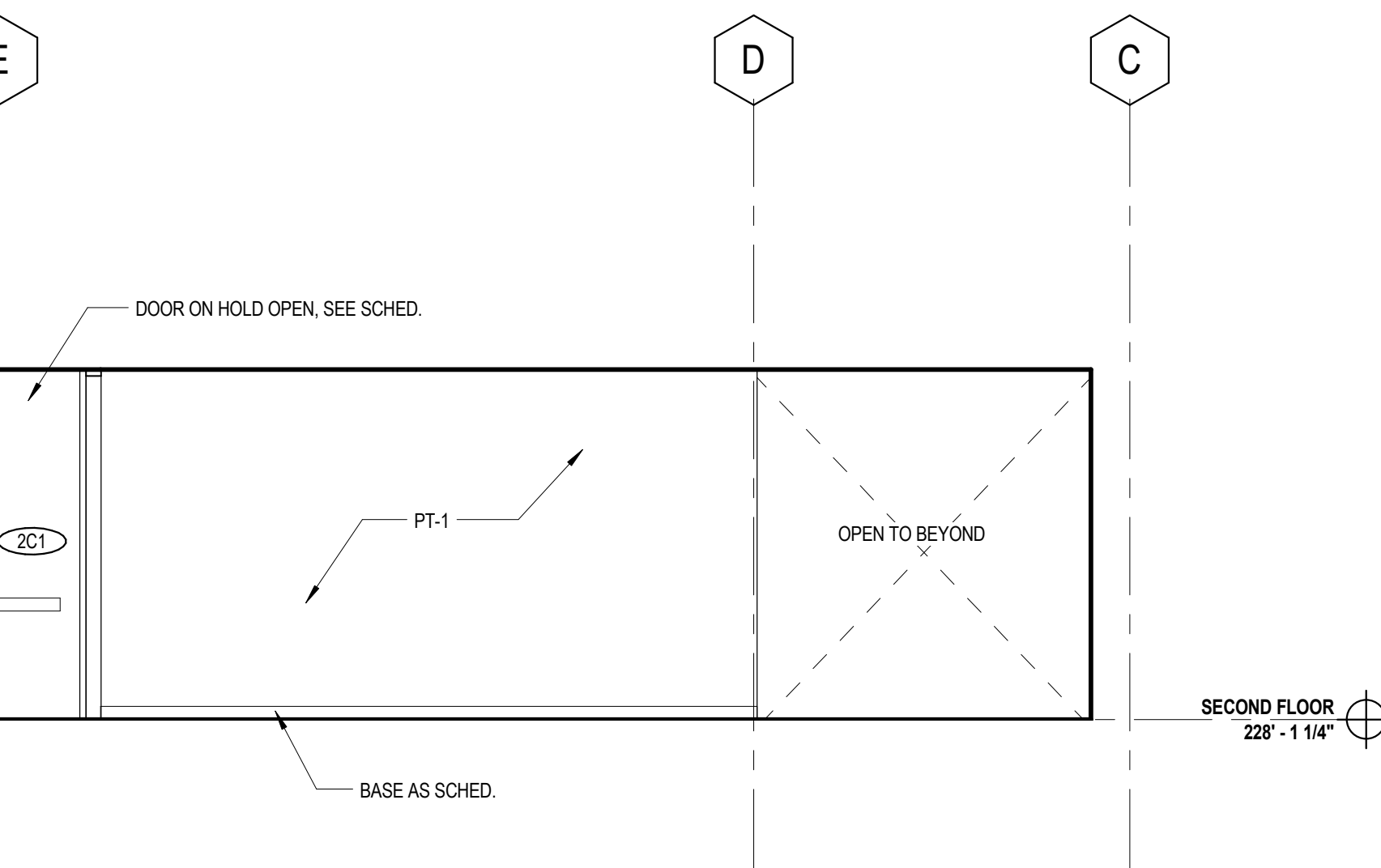
11 INTERIOR ELEVATION
SECOND FLOOR CORRIDOR - ADDITION - LOOKING SOUTH



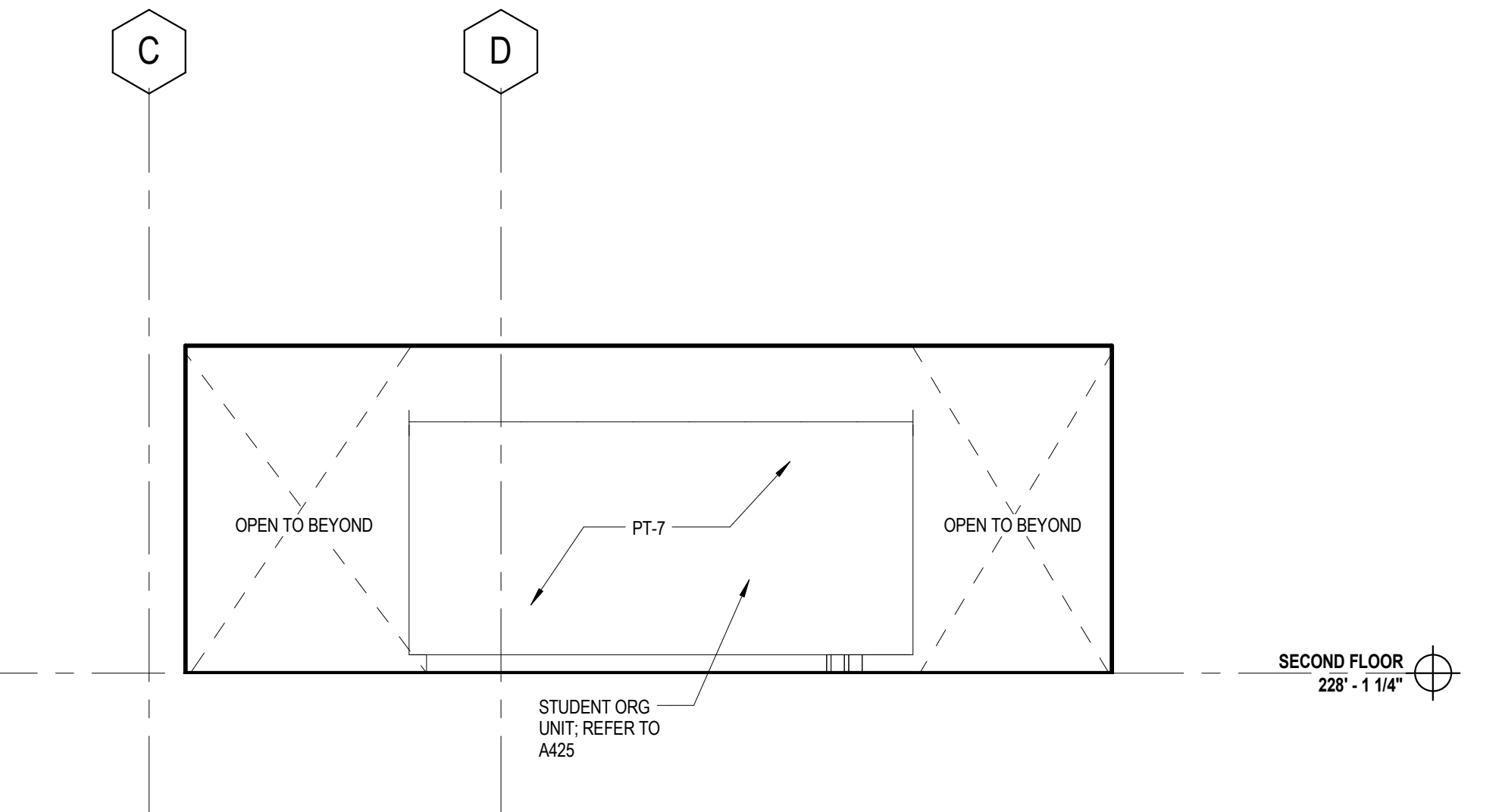
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STUDENT ORG SPACE NORTH - LOOKING NORTH



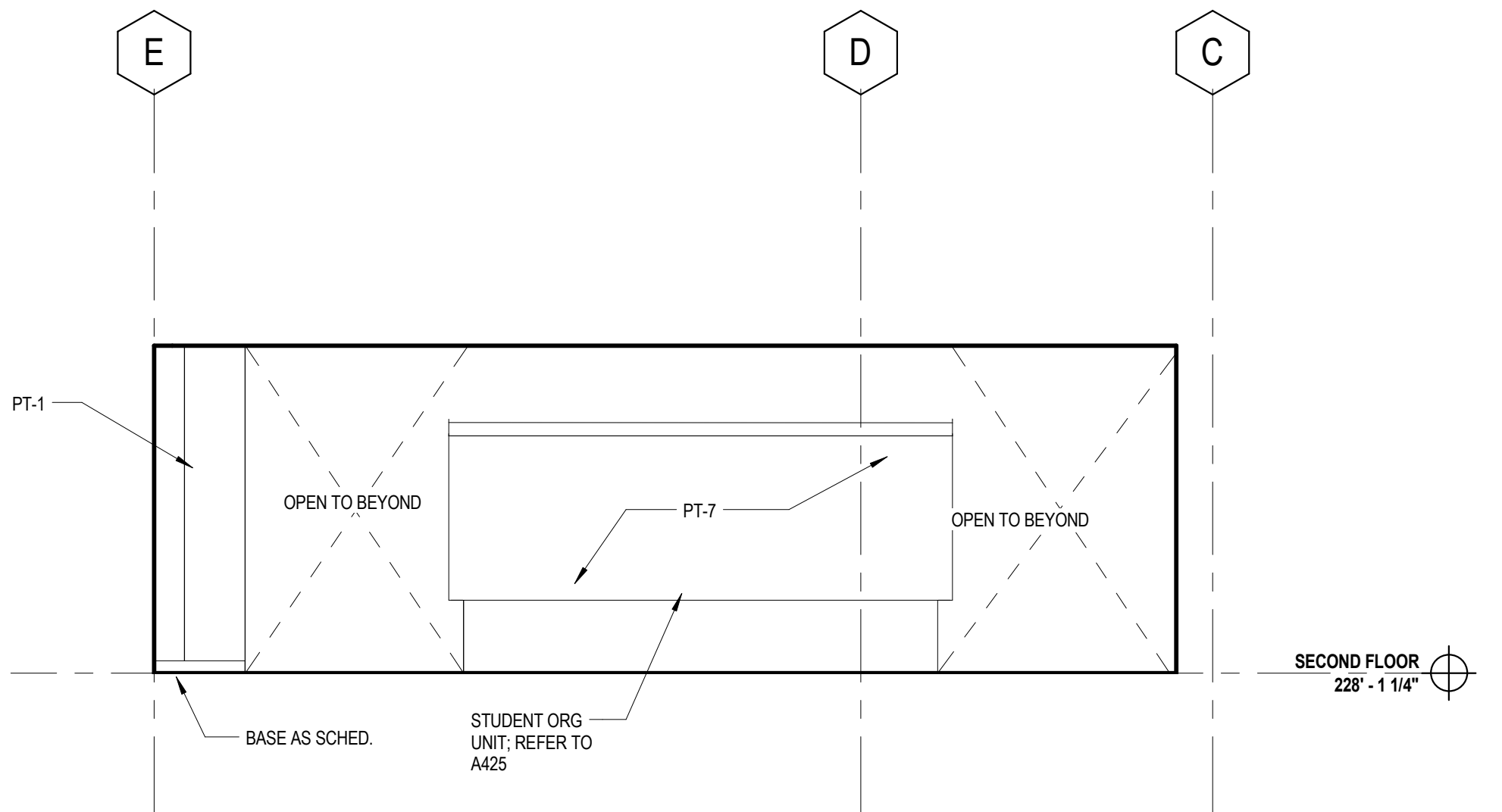
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STUDENT ORG SPACE NORTH - LOOKING SOUTH



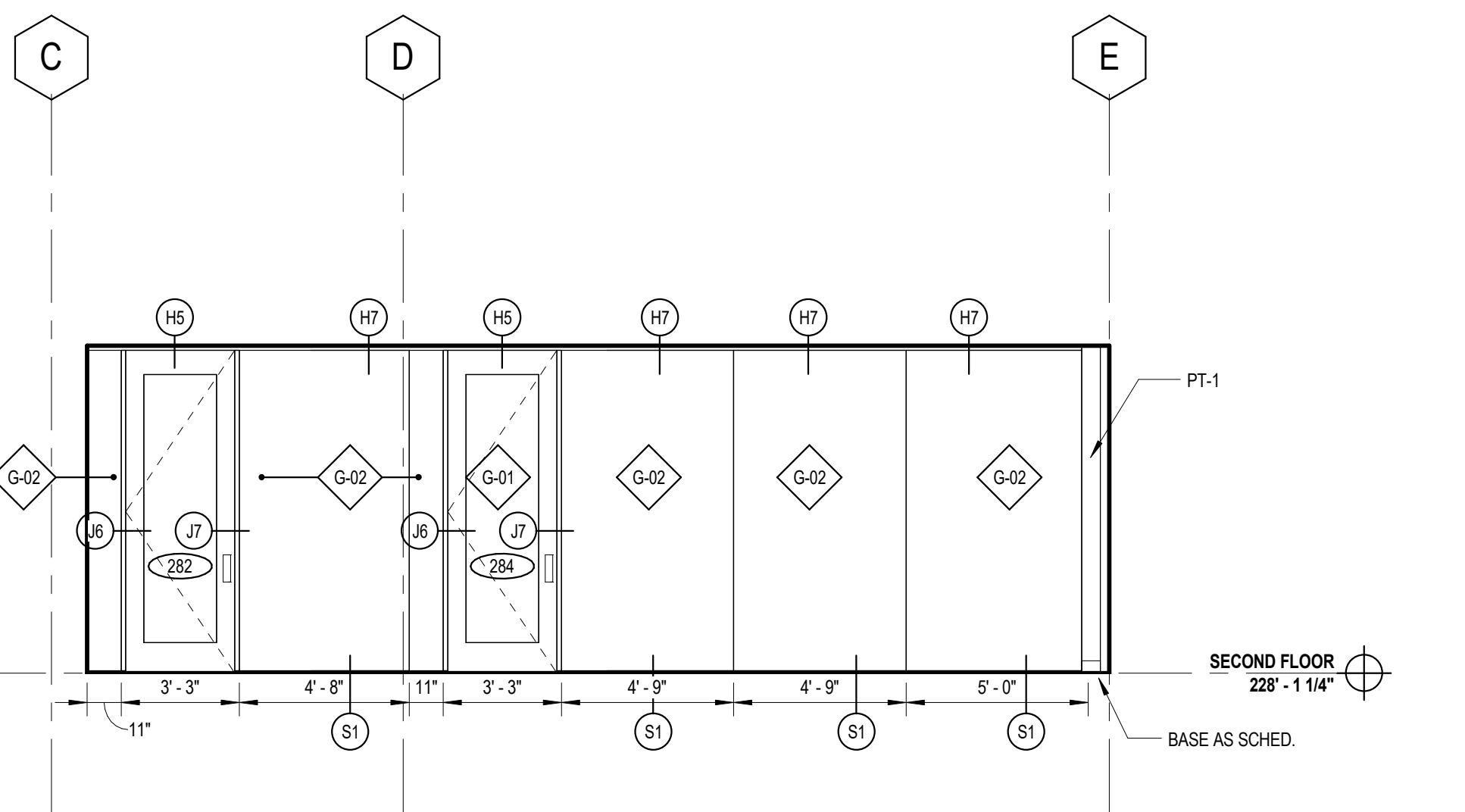
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STUDENT ORG SPACE EAST - LOOKING EAST



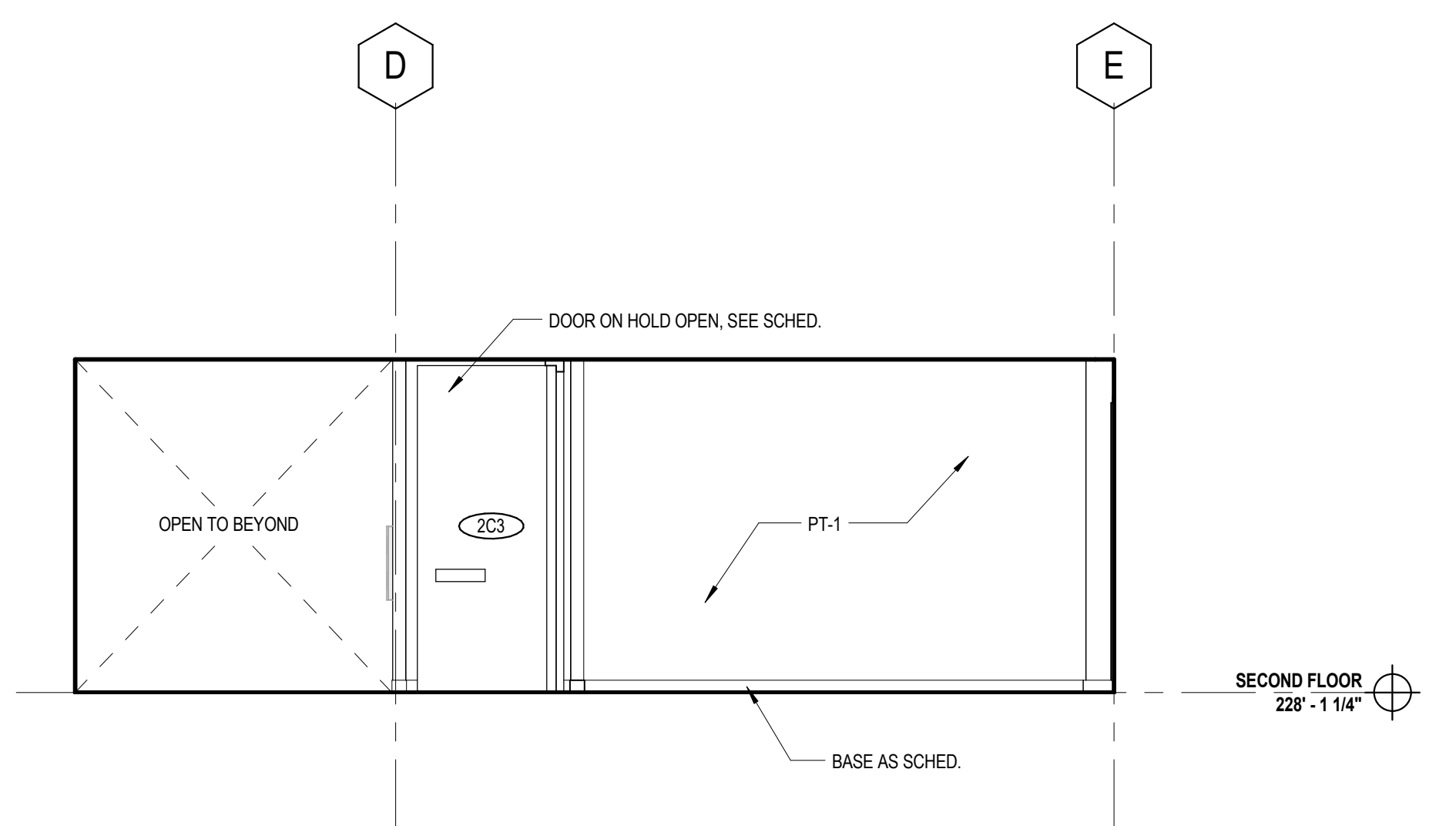
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STUDENT ORG SPACE EAST - LOOKING WEST



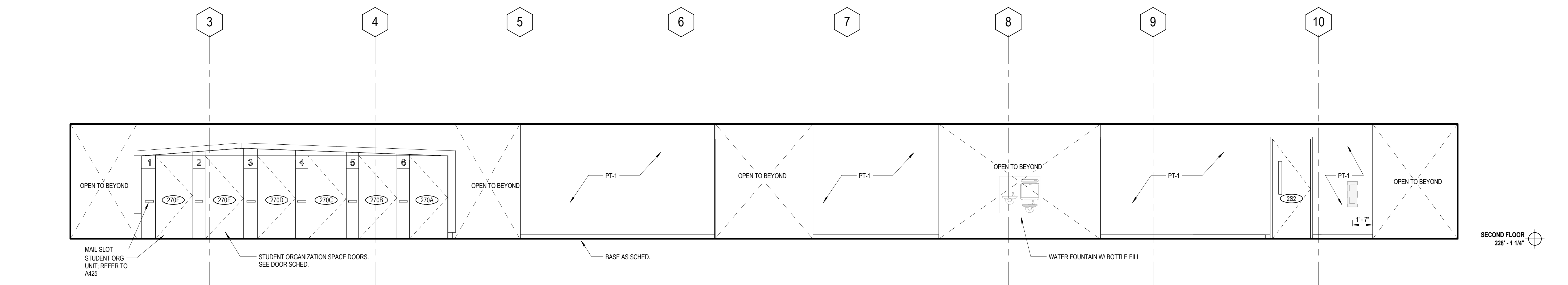
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STUDENT ORG SPACE WEST - LOOKING EAST



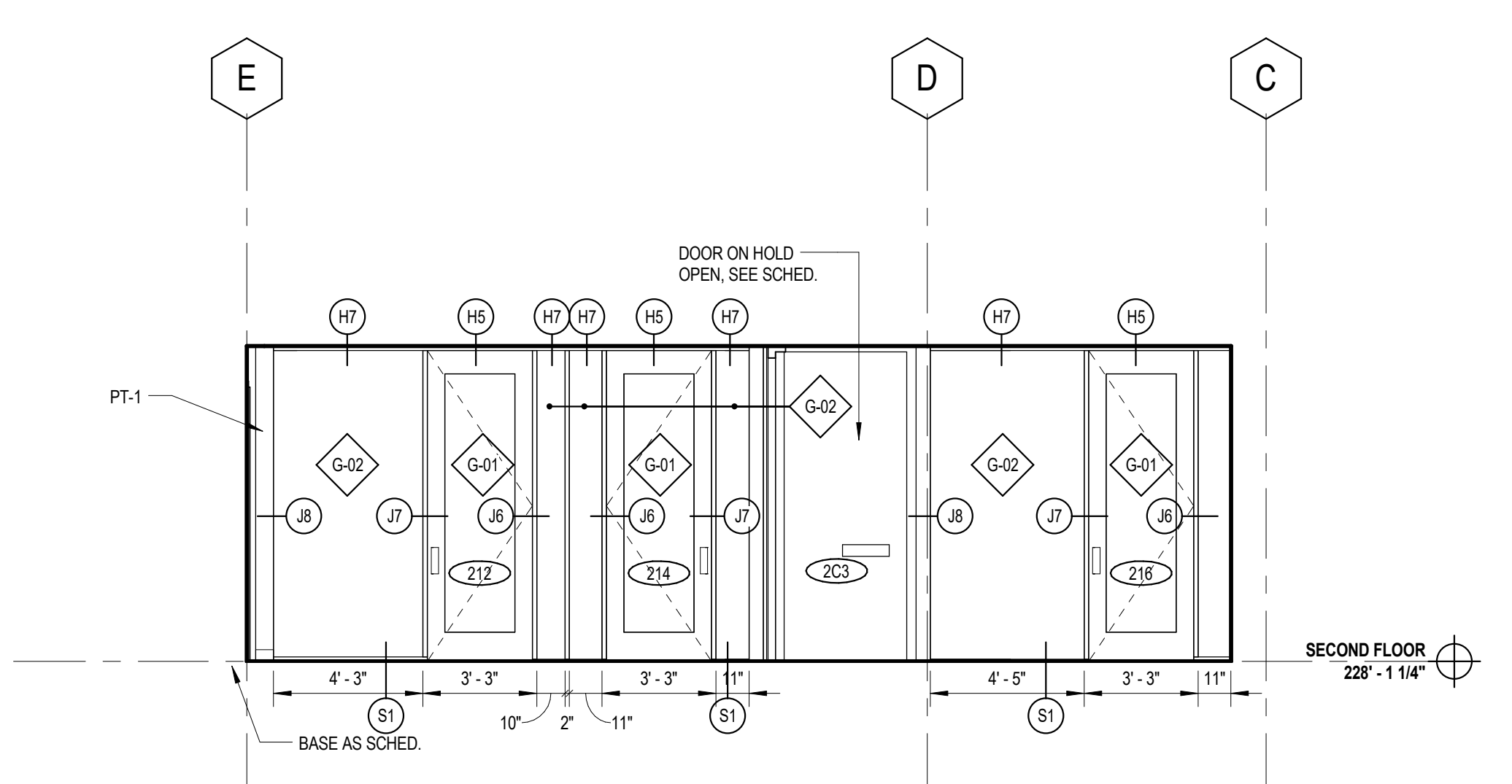
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STUDENT ORG SPACE WEST - LOOKING WEST



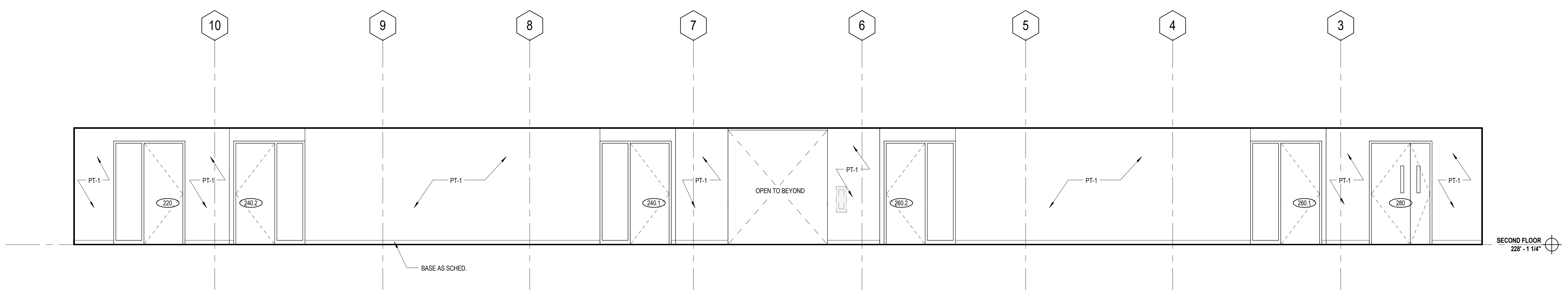
4 INTERIOR ELEVATION
SECOND FLOOR CORRIDOR EAST - LOOKING WEST



3 INTERIOR ELEVATION
SECOND FLOOR CORRIDOR - LOOKING NORTH

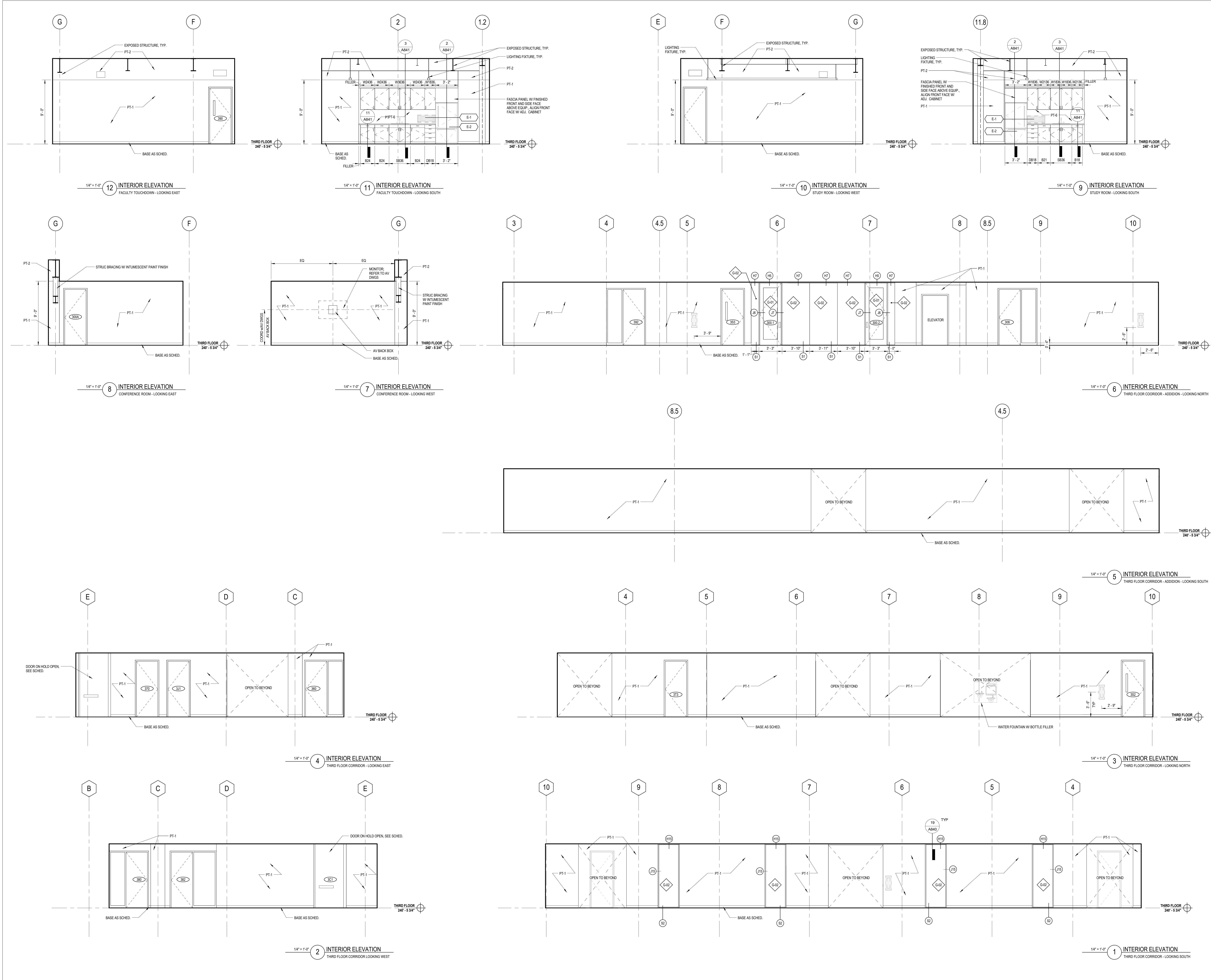


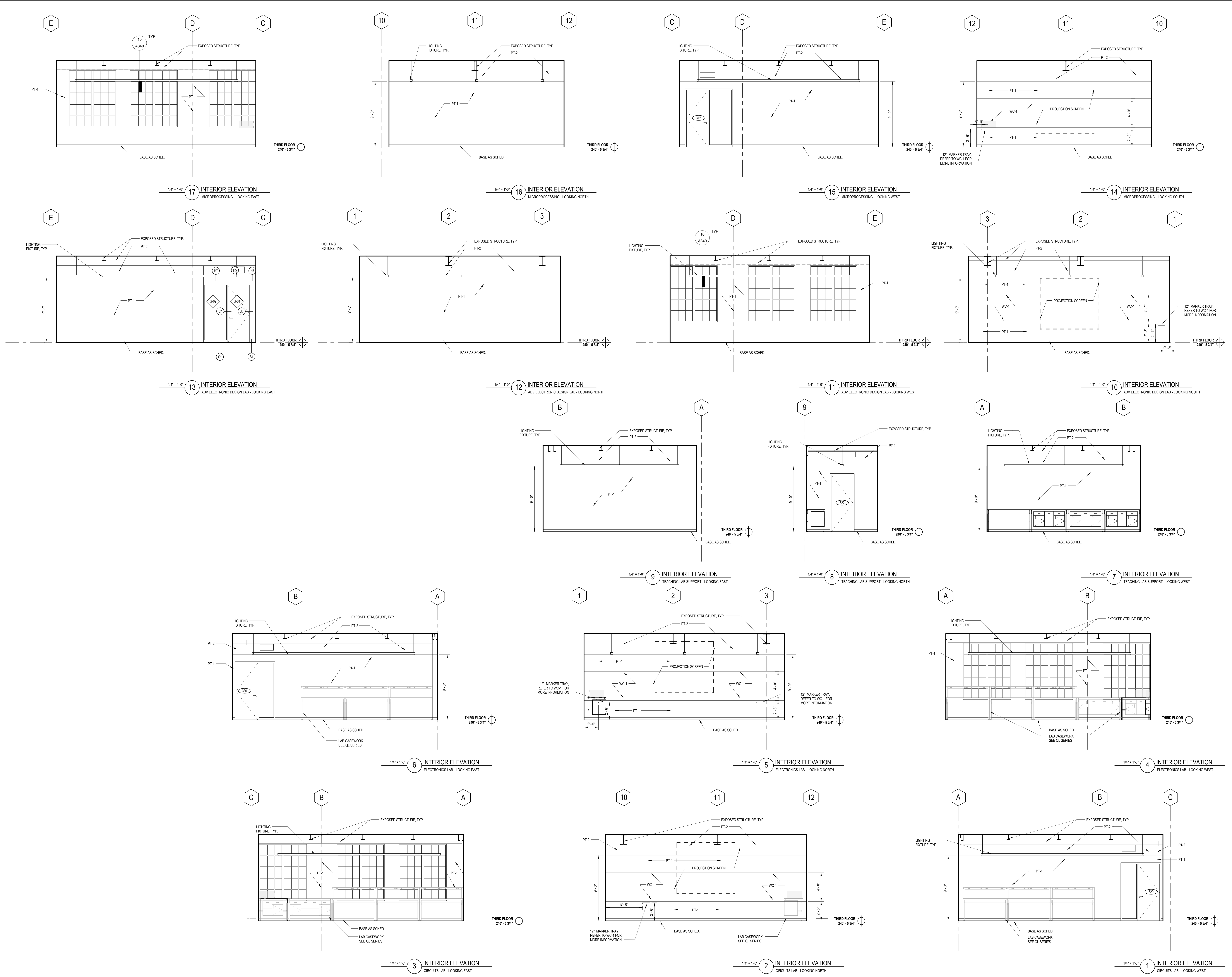
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SECOND FLOOR CORRIDOR EAST - LOOKING EAST

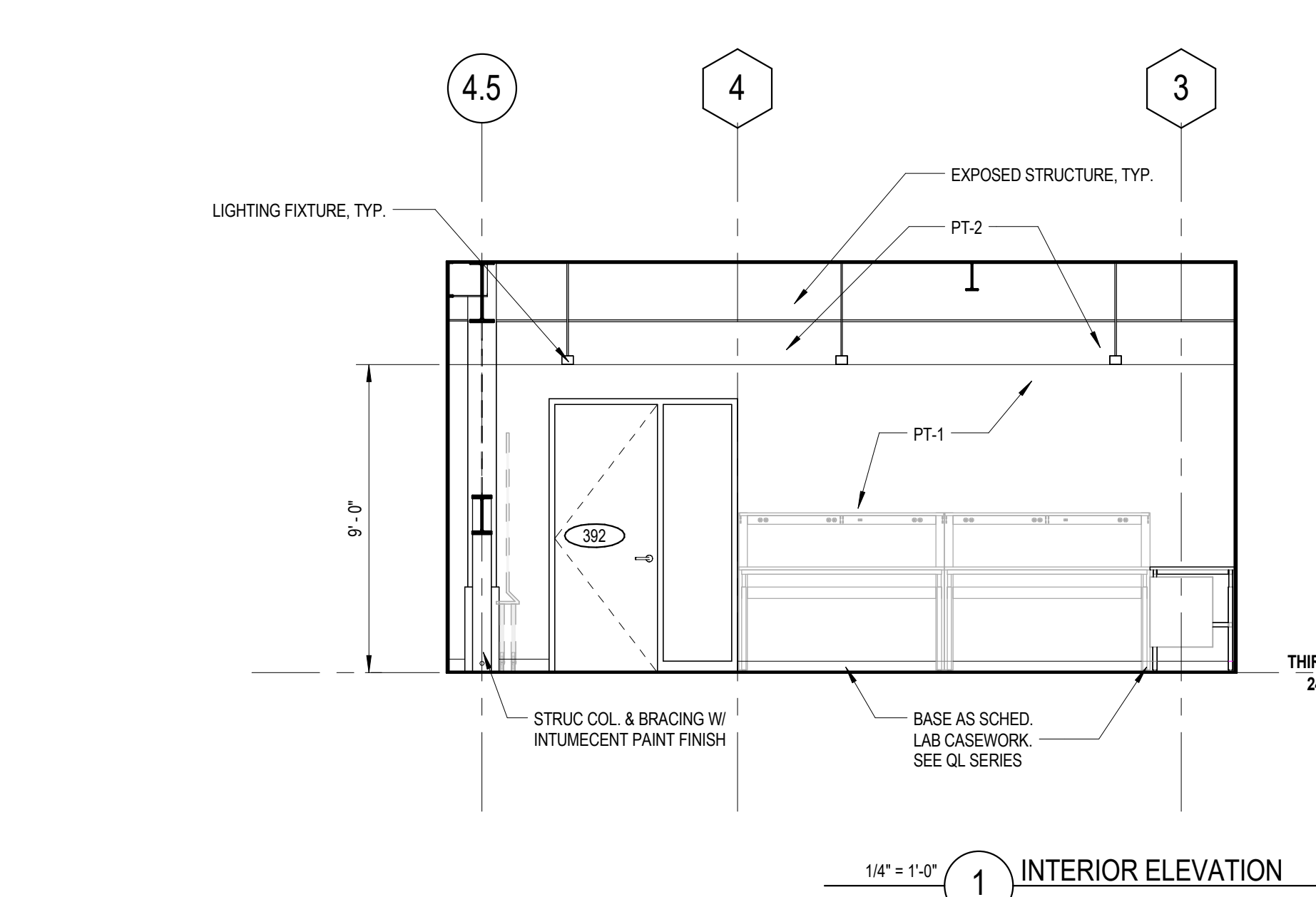
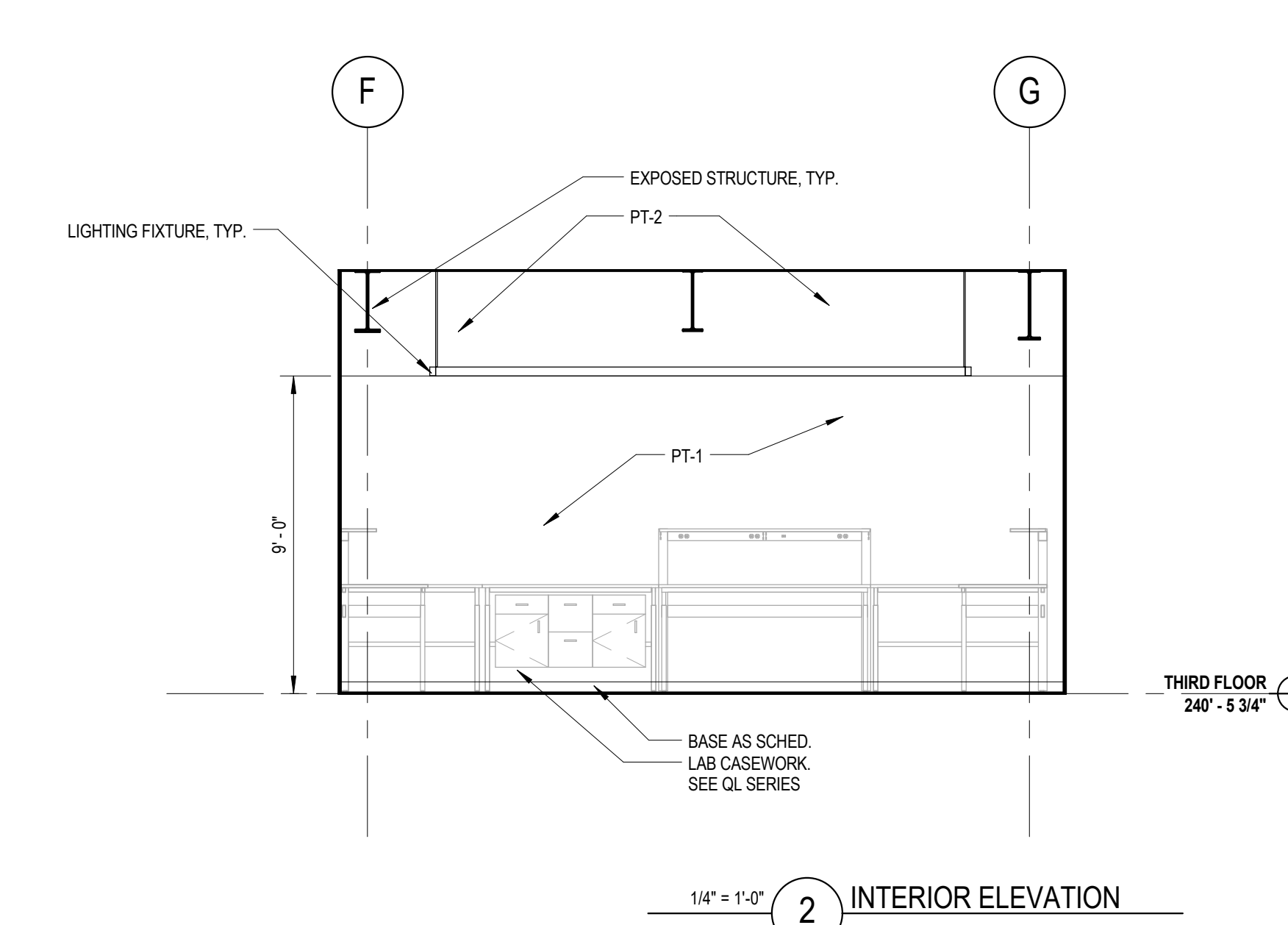
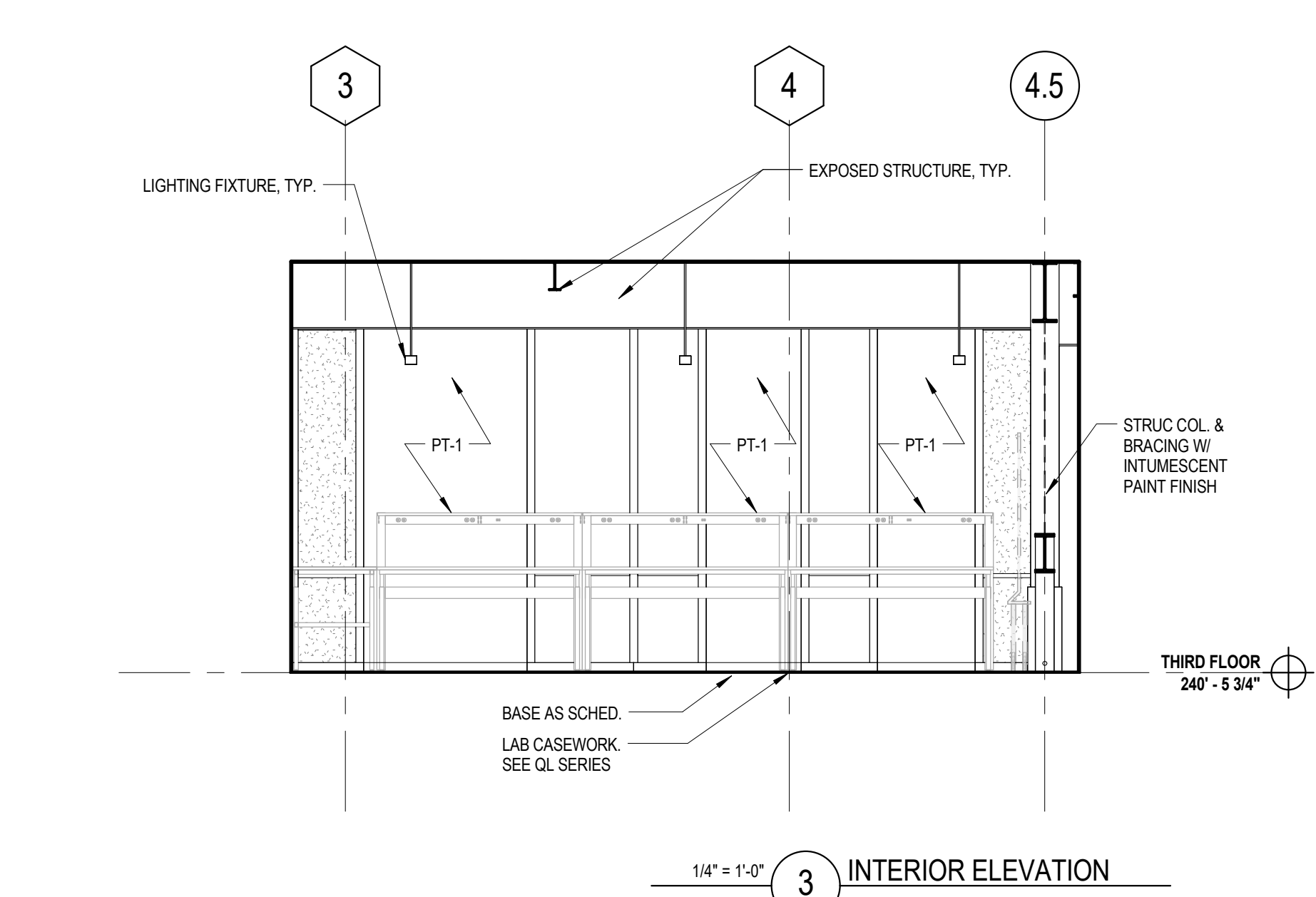
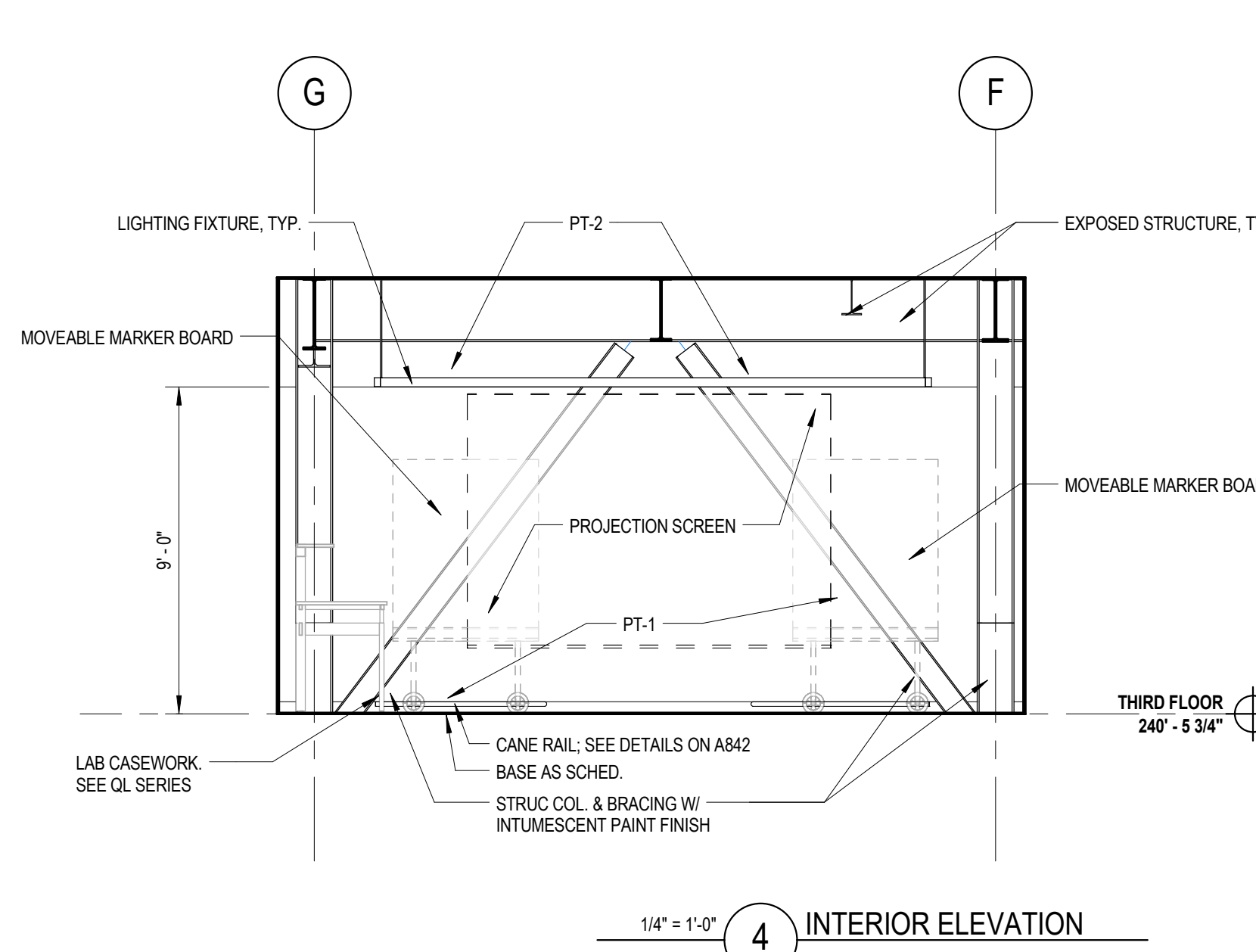
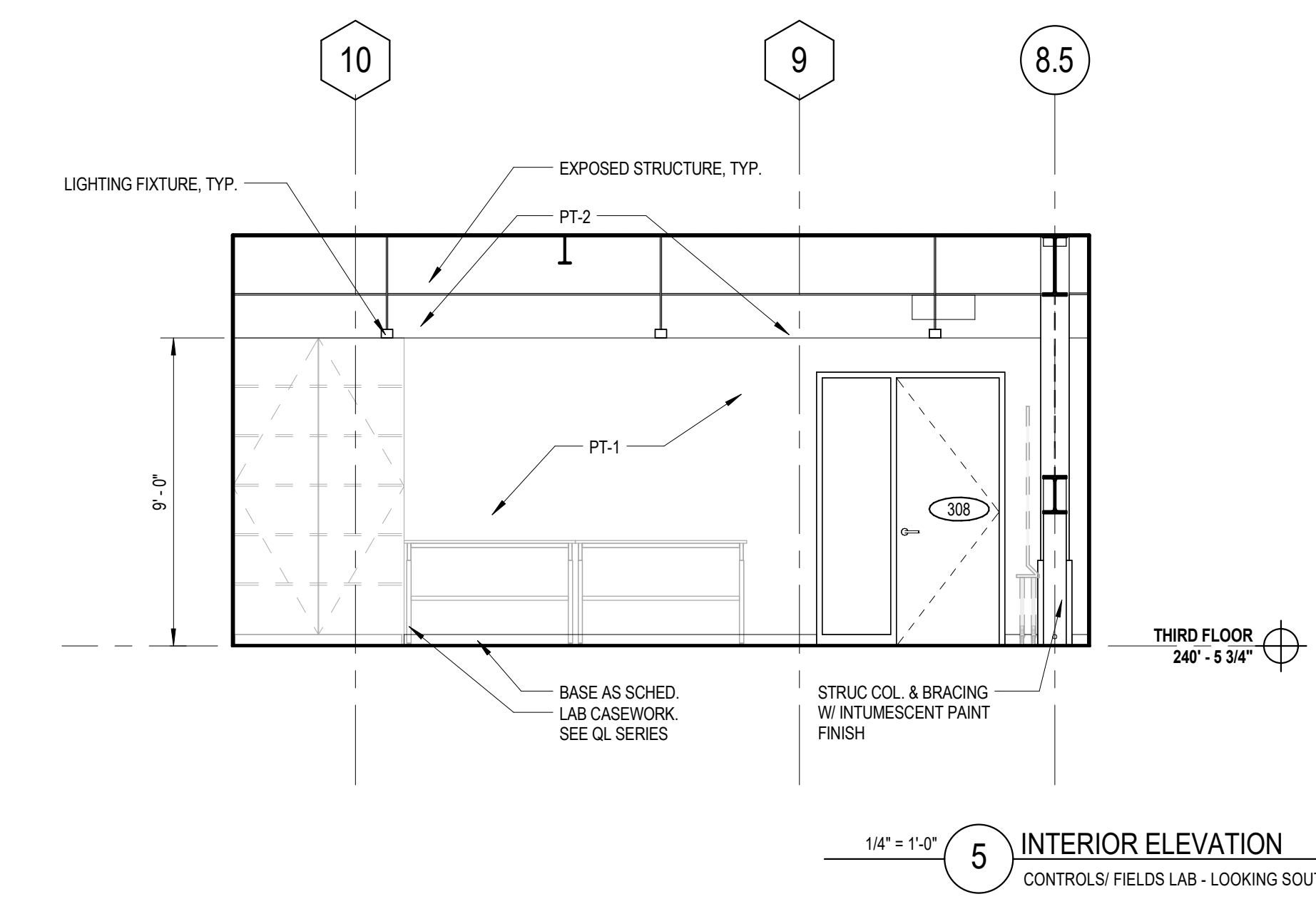
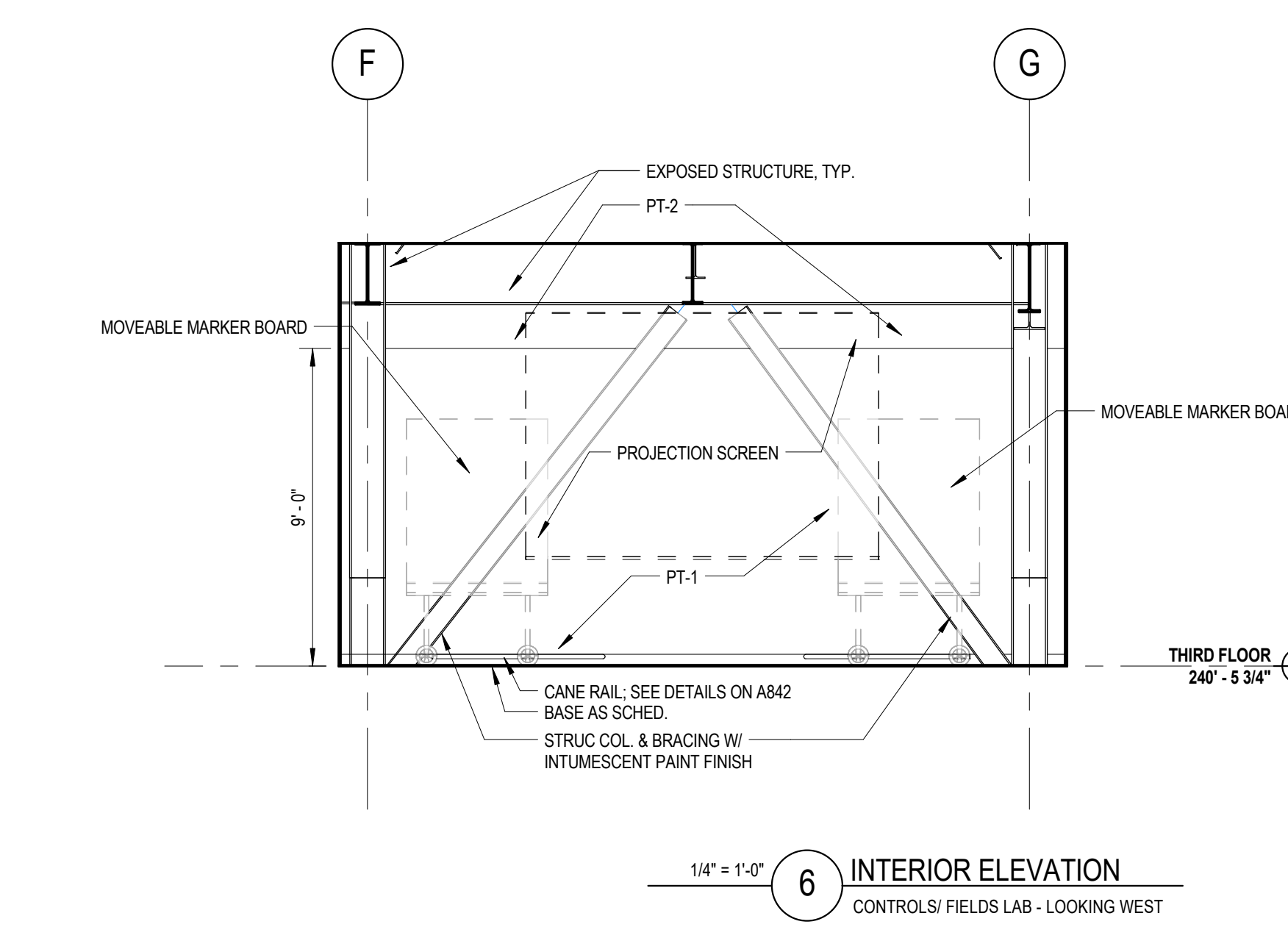
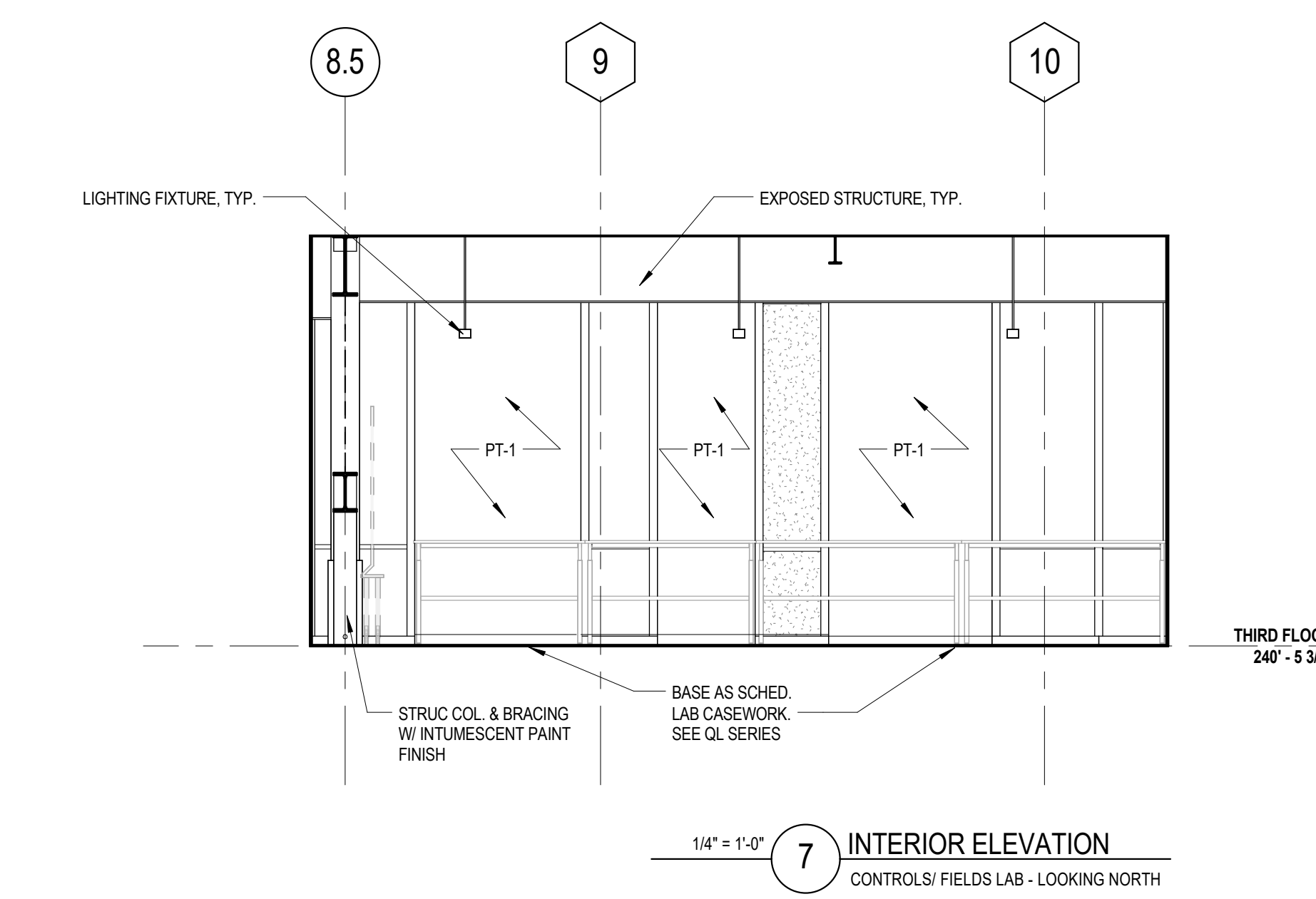
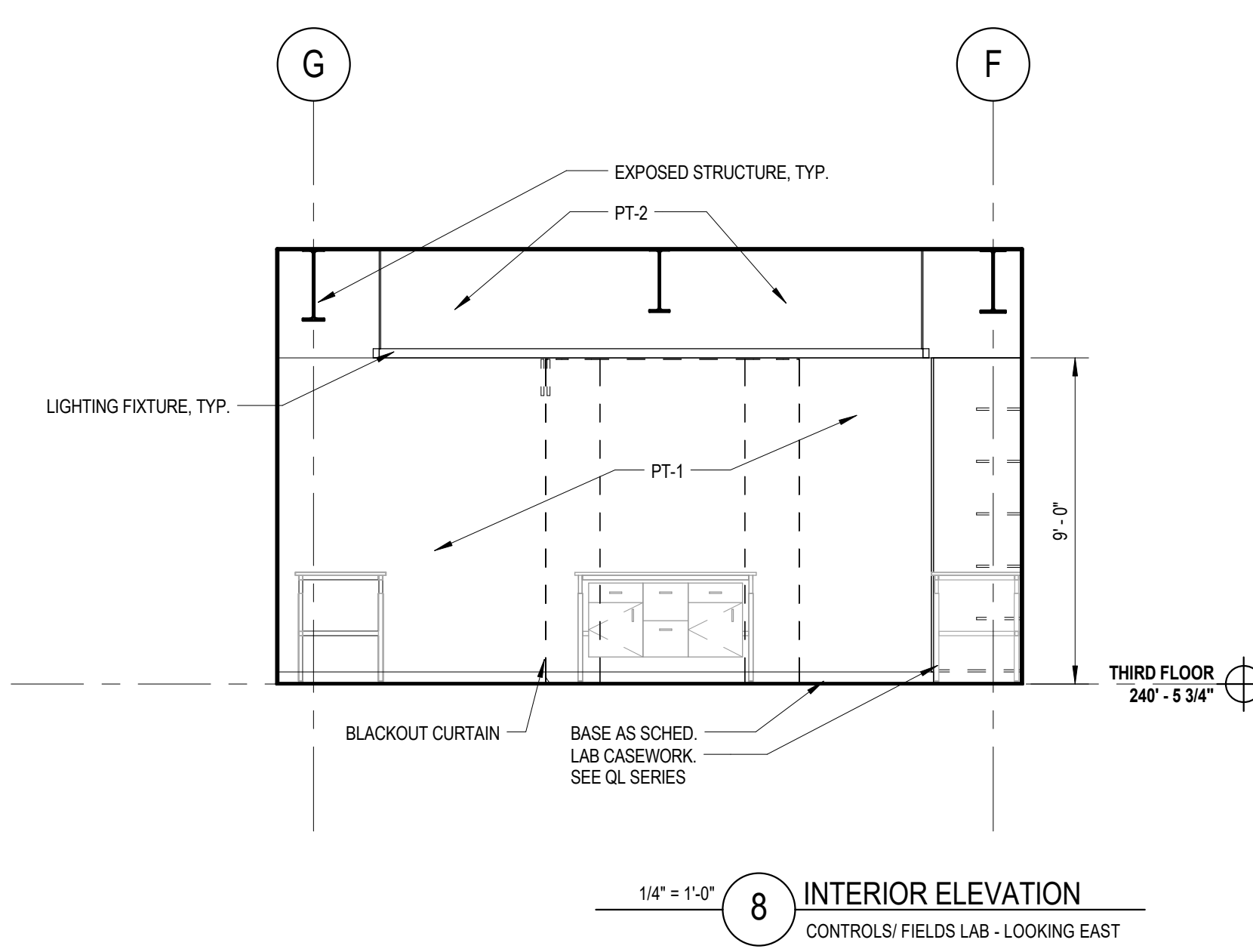
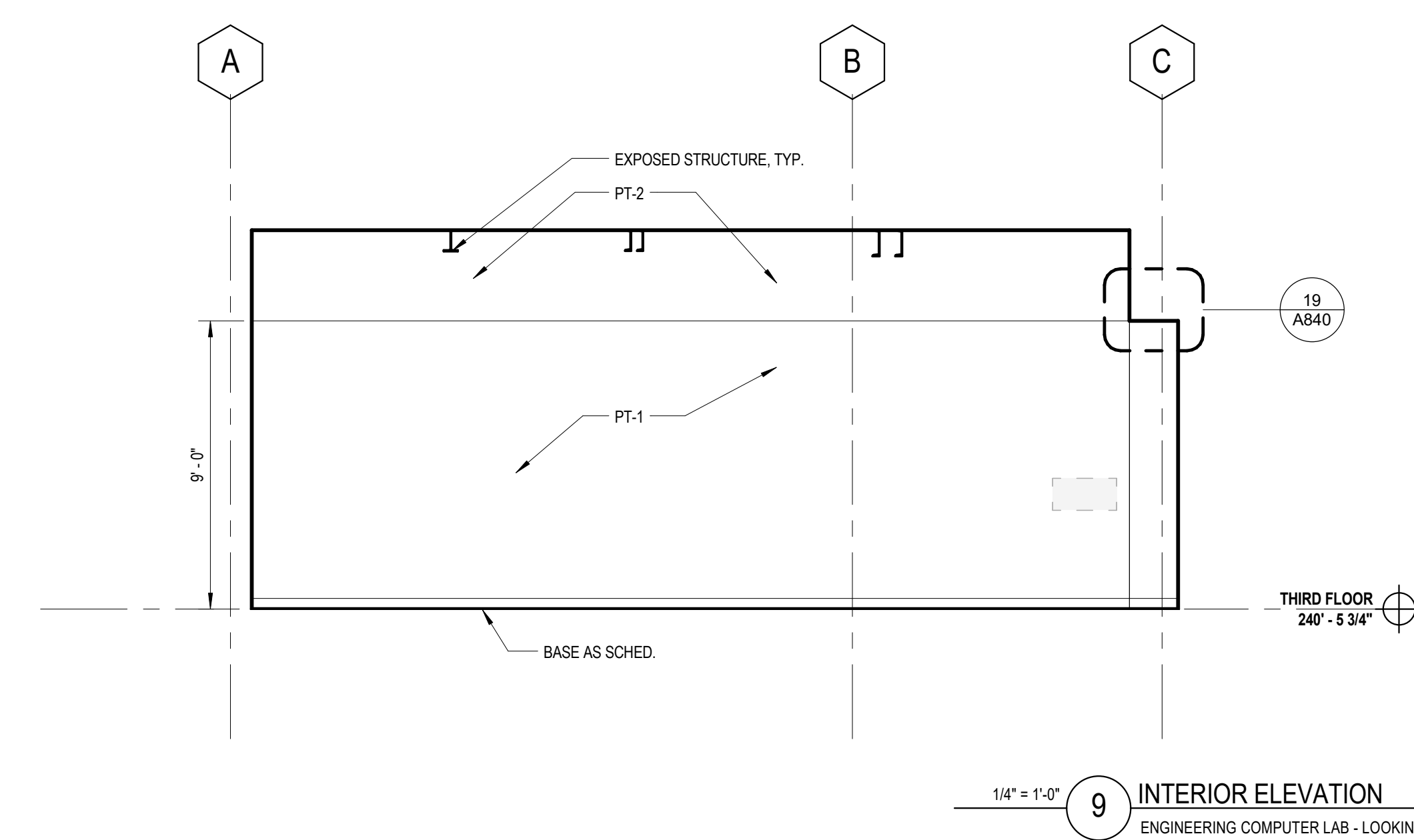
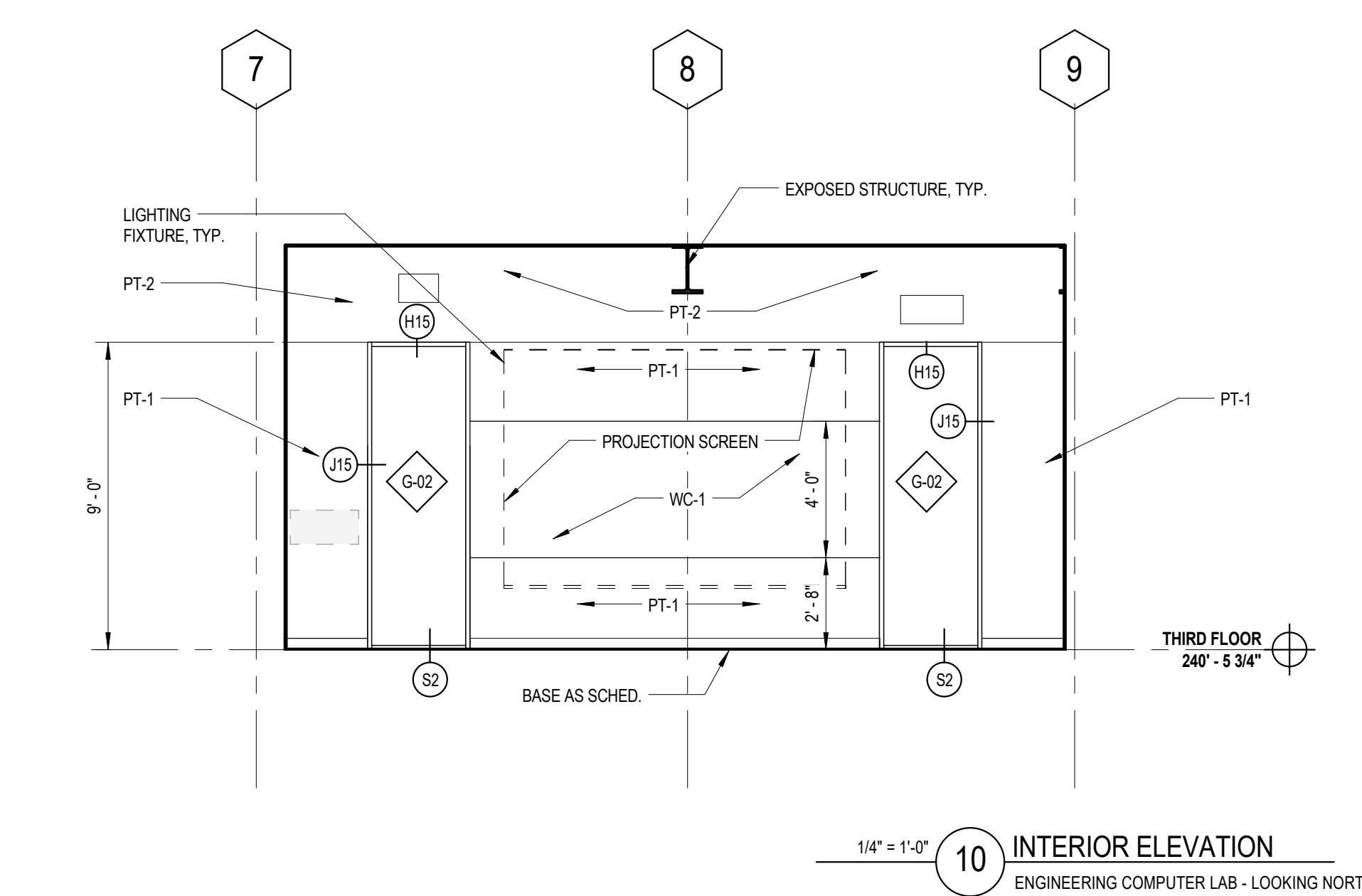
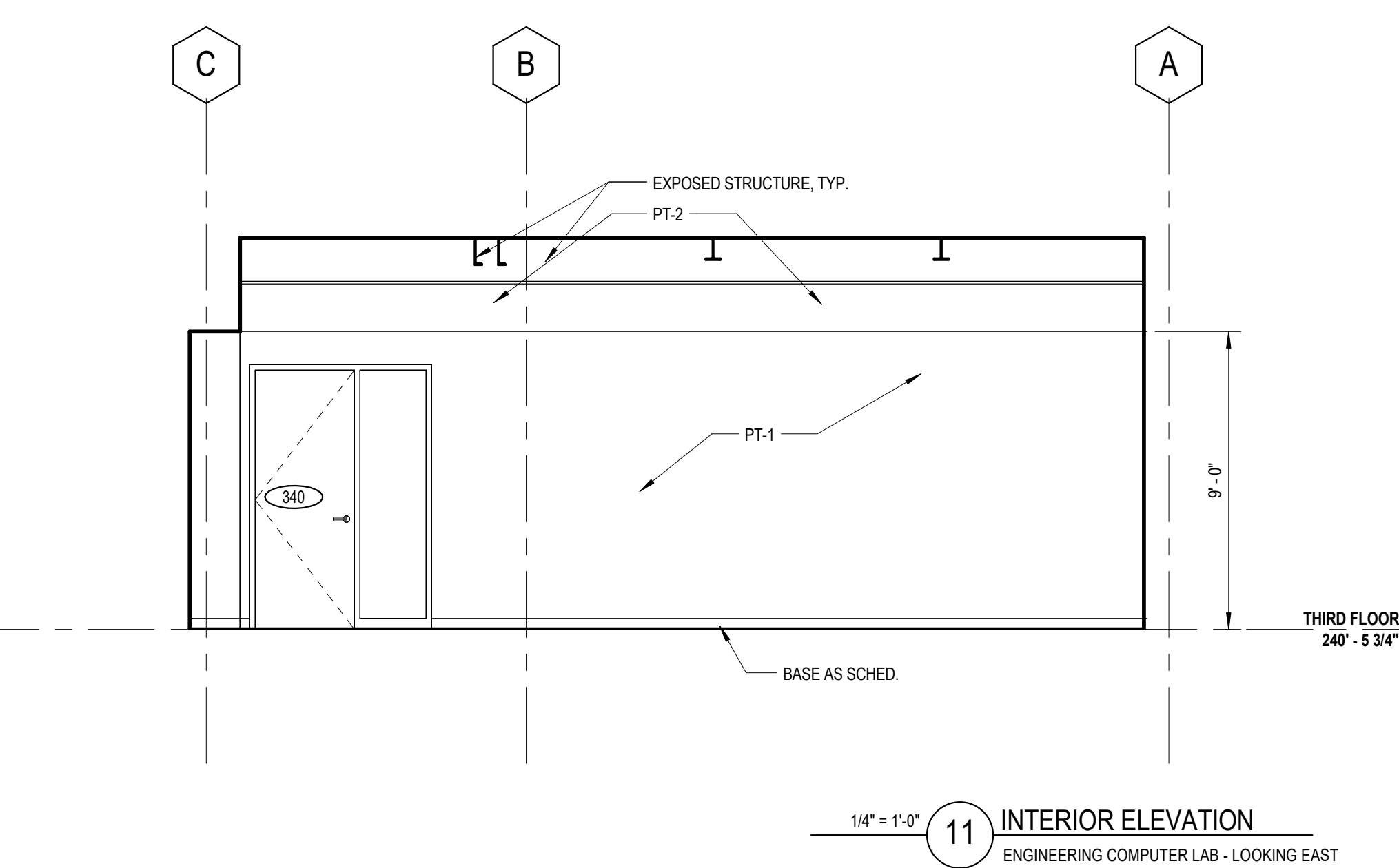
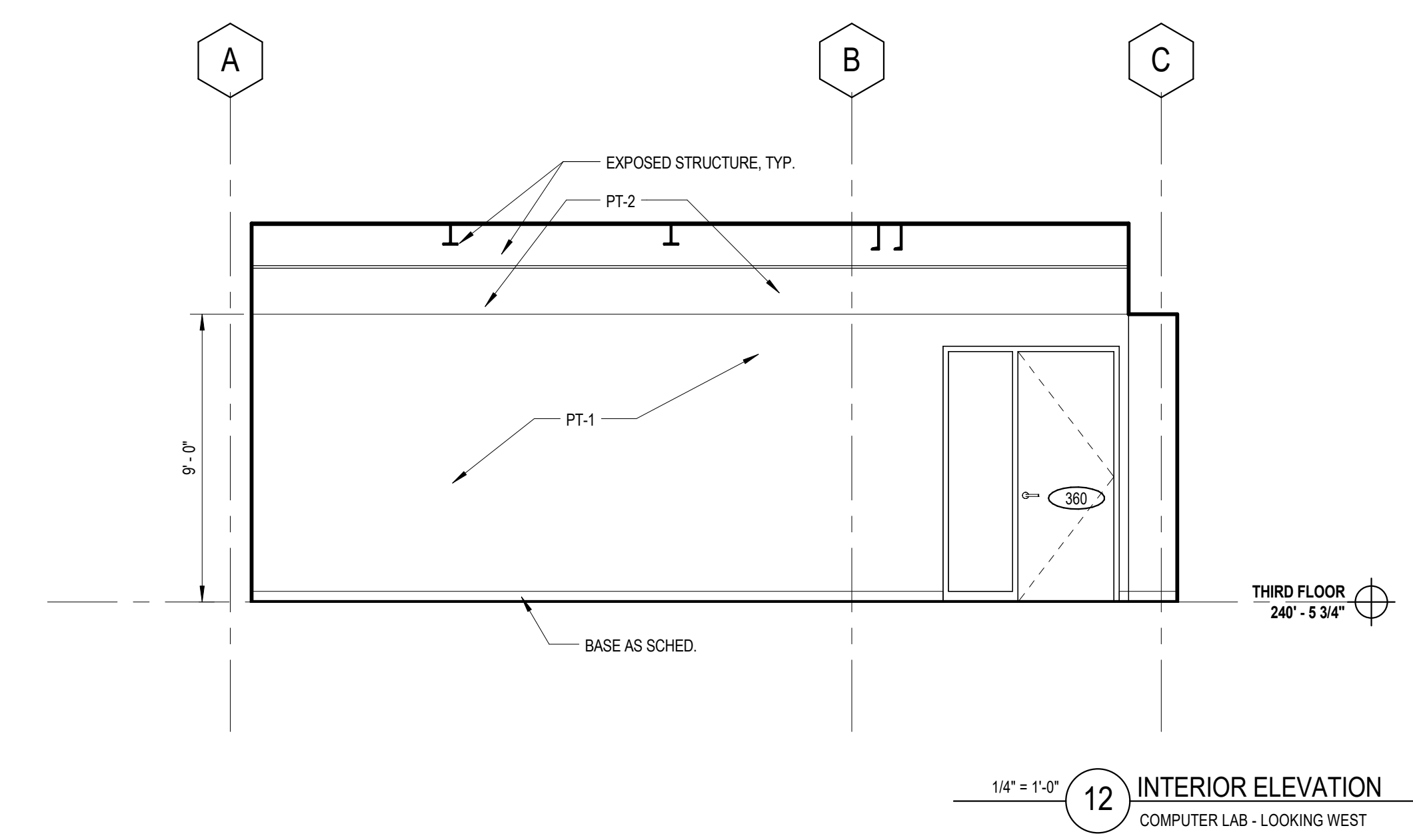
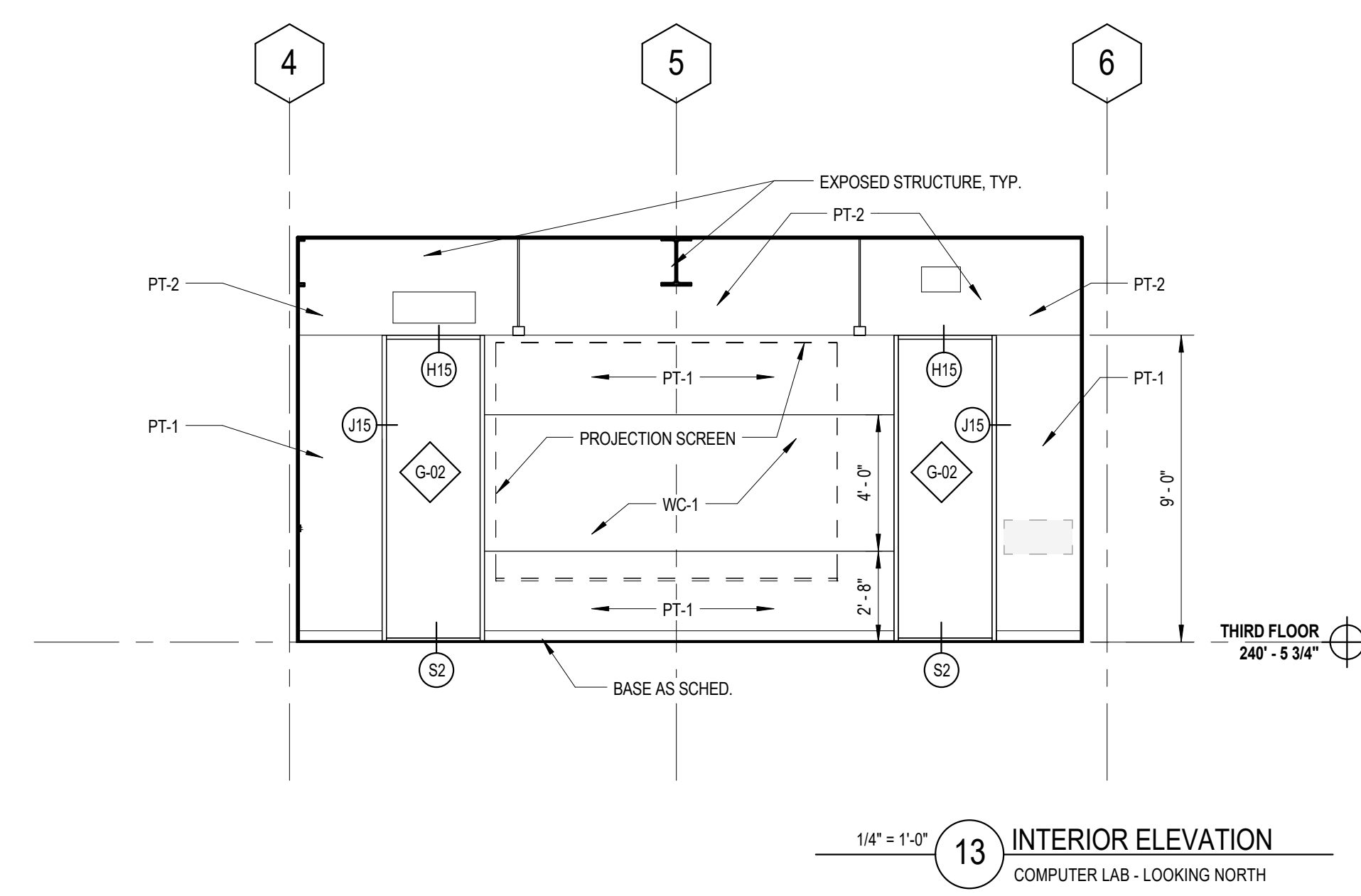
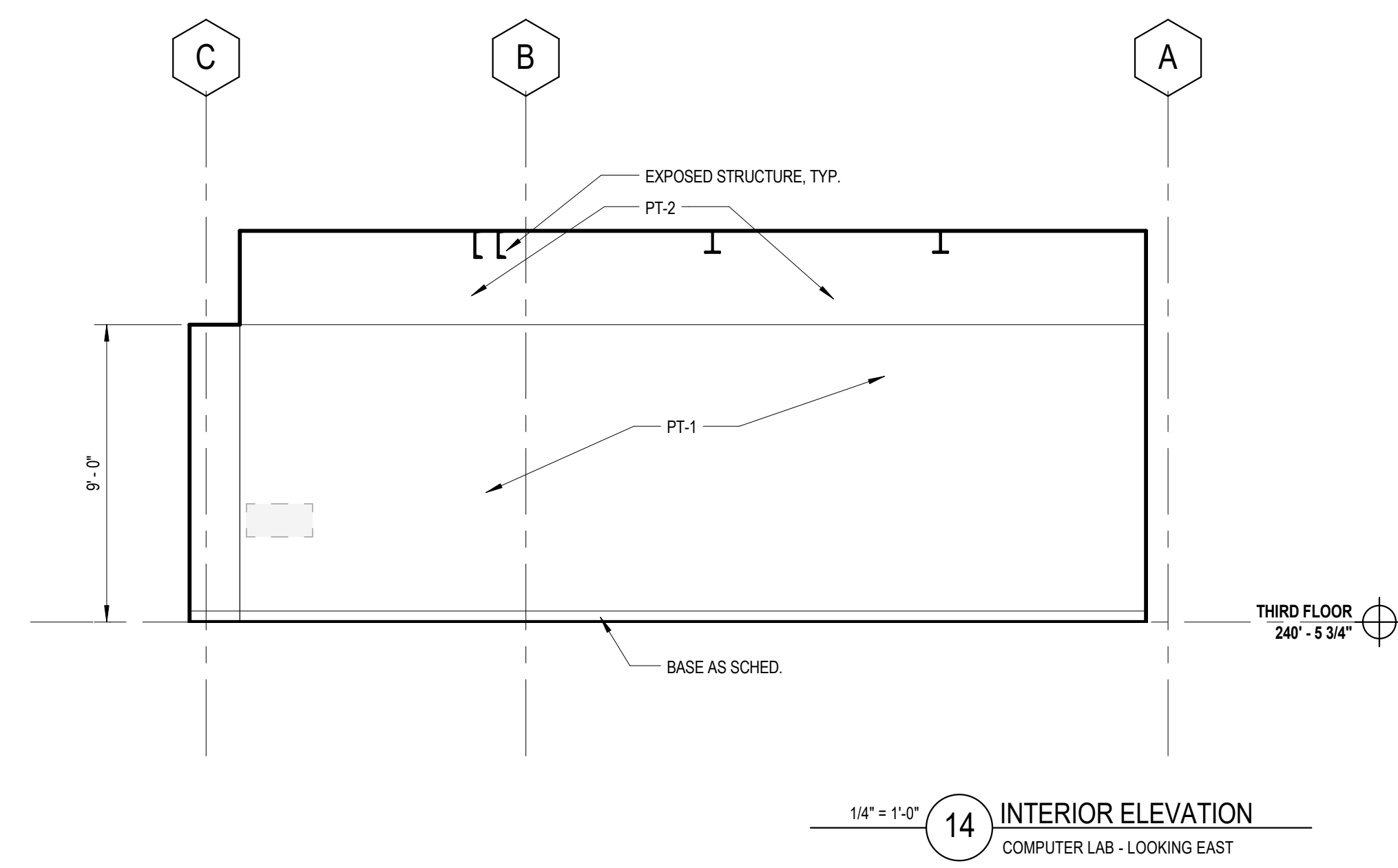


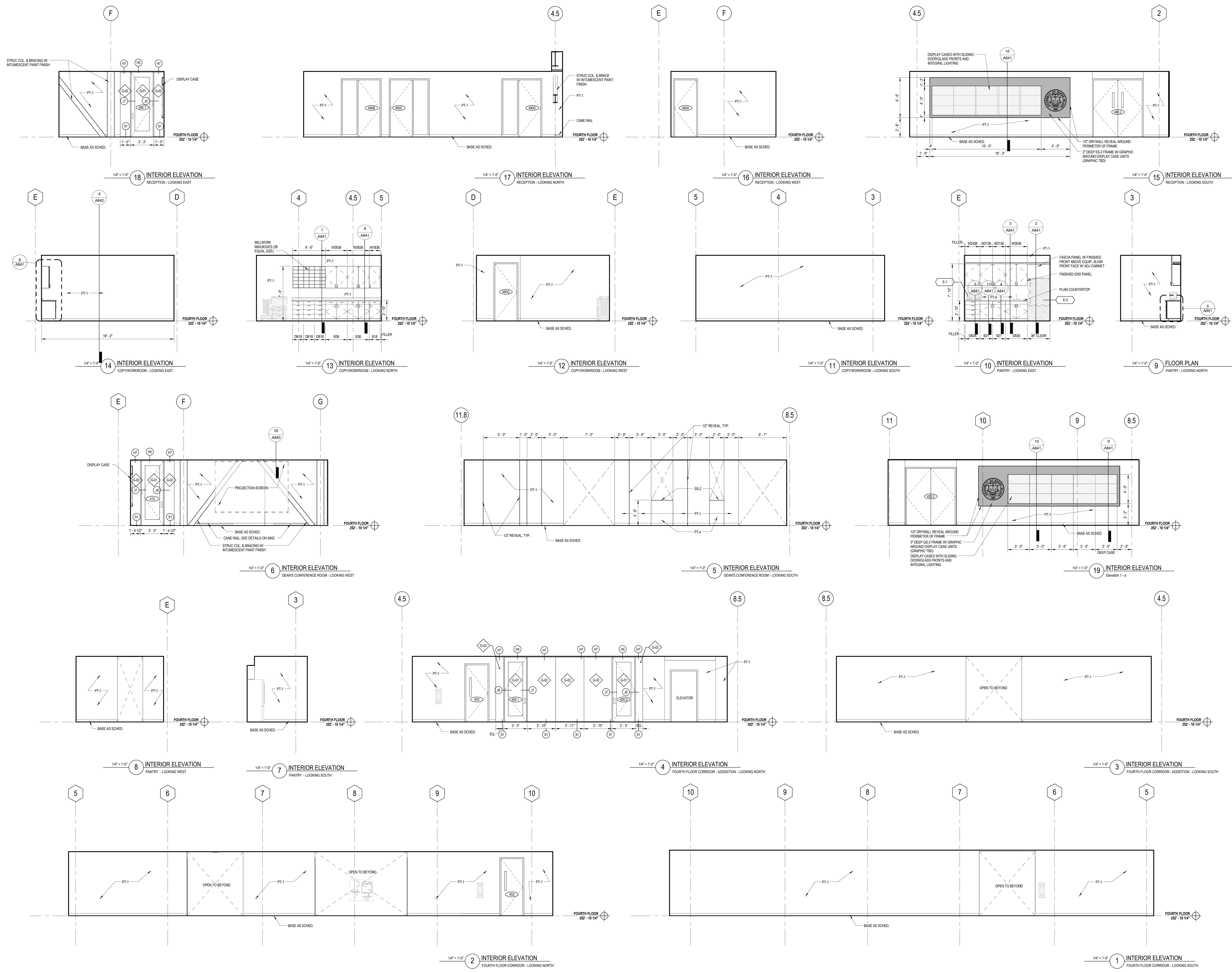
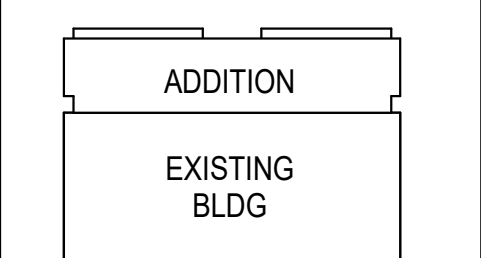
1 INTERIOR ELEVATION
SECOND FLOOR CORRIDOR - LOOKING SOUTH

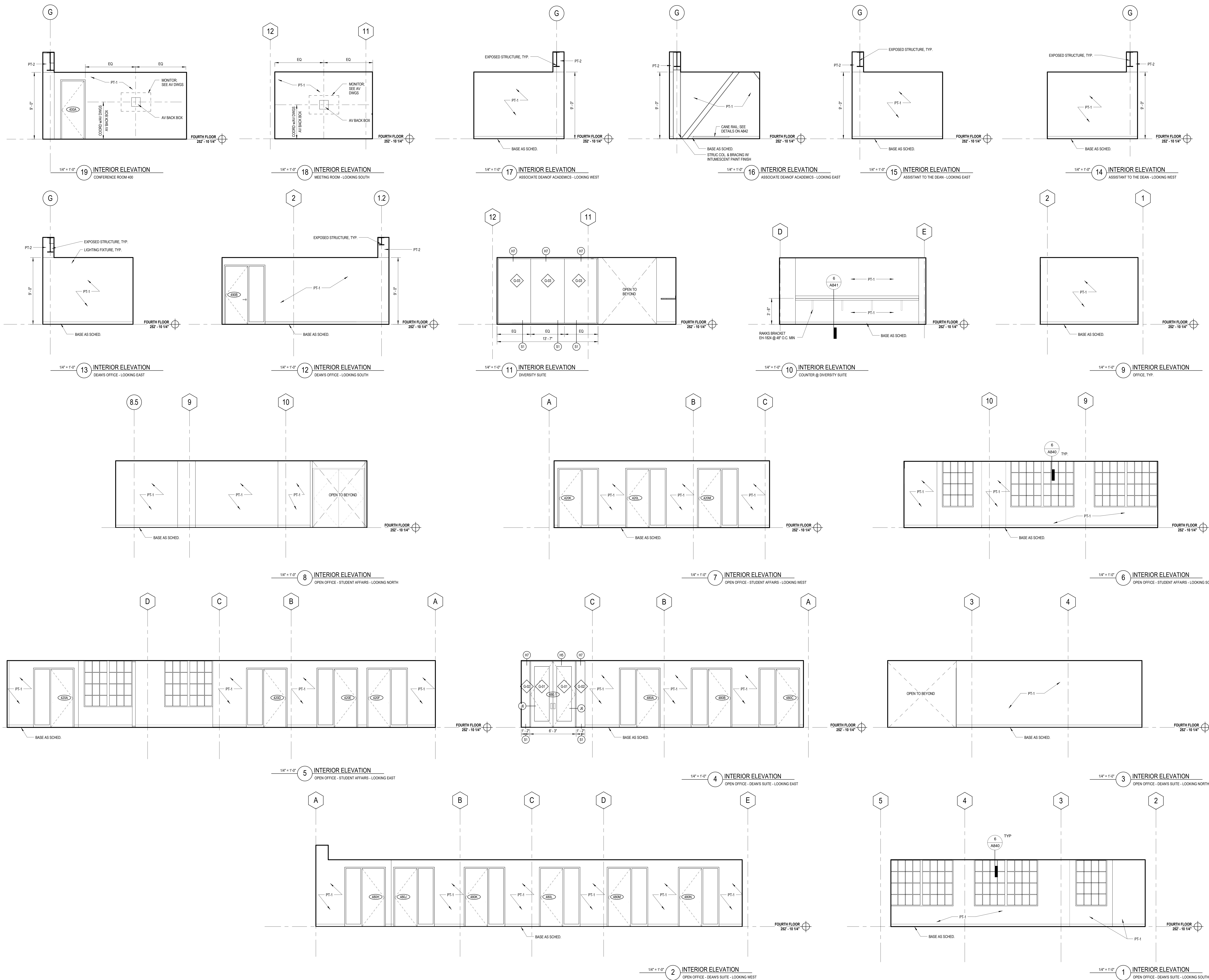












FINISH PLAN GENERAL NOTES

1. CENTER PATTERNS IN ROOMS.
2. PROVIDE SEALANT AT TRANSITION BETWEEN VCT AND CONCRETE CURBS, TYP.
3. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
4. PREPARE EXISTING CONCRETE SLABS/DECKS TO RECEIVE NEW FINISHES.

THE
UNIVERSITY
OF RHODE ISLAND

BLISS HALL ADDITION AND
RENOVATION
PROVIDENCE, RI
PROJECT NO. KC.G.ENG.R.2017.001

BALLINGER

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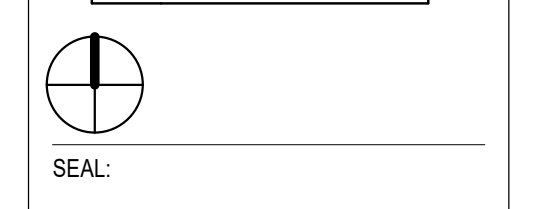
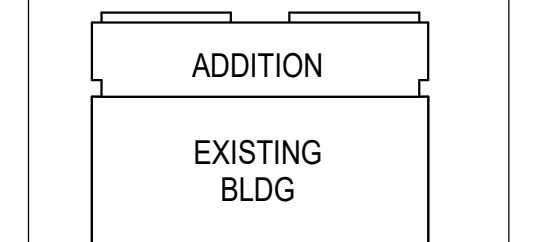
CONSULTANTS:



150 Chestnut Street
Providence, RI
02903
Tel: 401.861.1600
Fax: 401.861.5588



KEYPLAN:



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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated
ARCHITECTURE

TITLE:
SECOND FLOOR
FINISH PLAN

NUMBER:

A902

FINISH PLAN GENERAL NOTES

1. CENTER PATTERNS IN ROOMS.
2. PROVIDE SEALANT AT TRANSITION BETWEEN VCT AND CONCRETE CURBS, TYP.
3. INSTALL NEW 3/4" SHEATHING OVER ENTIRE EXISTING THIRD AND FOURTH FLOORS.
4. PREPARE EXISTING CONCRETE SLAB DECKS TO RECEIVE NEW FINISHES.

THE
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BLISS HALL ADDITION AND
RENOVATION

PROJECT NO. KG.G.ENR.2017.001

BALLINGER

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BALLINGER.COM

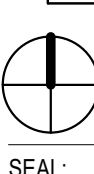
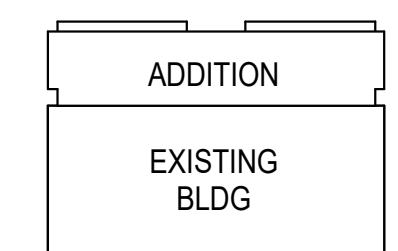
CONSULTANTS:

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KEYPLAN:



SEAL:

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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated

ARCHITECTURE

TITLE:

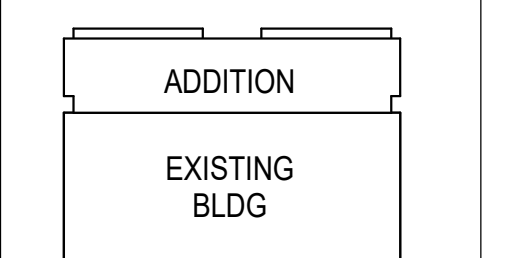
FOURTH FLOOR
FINISH PLAN

NUMBER:

A904



KEYPLAN:



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07/05/18 ISSUE 5
DRAWING ISSUE

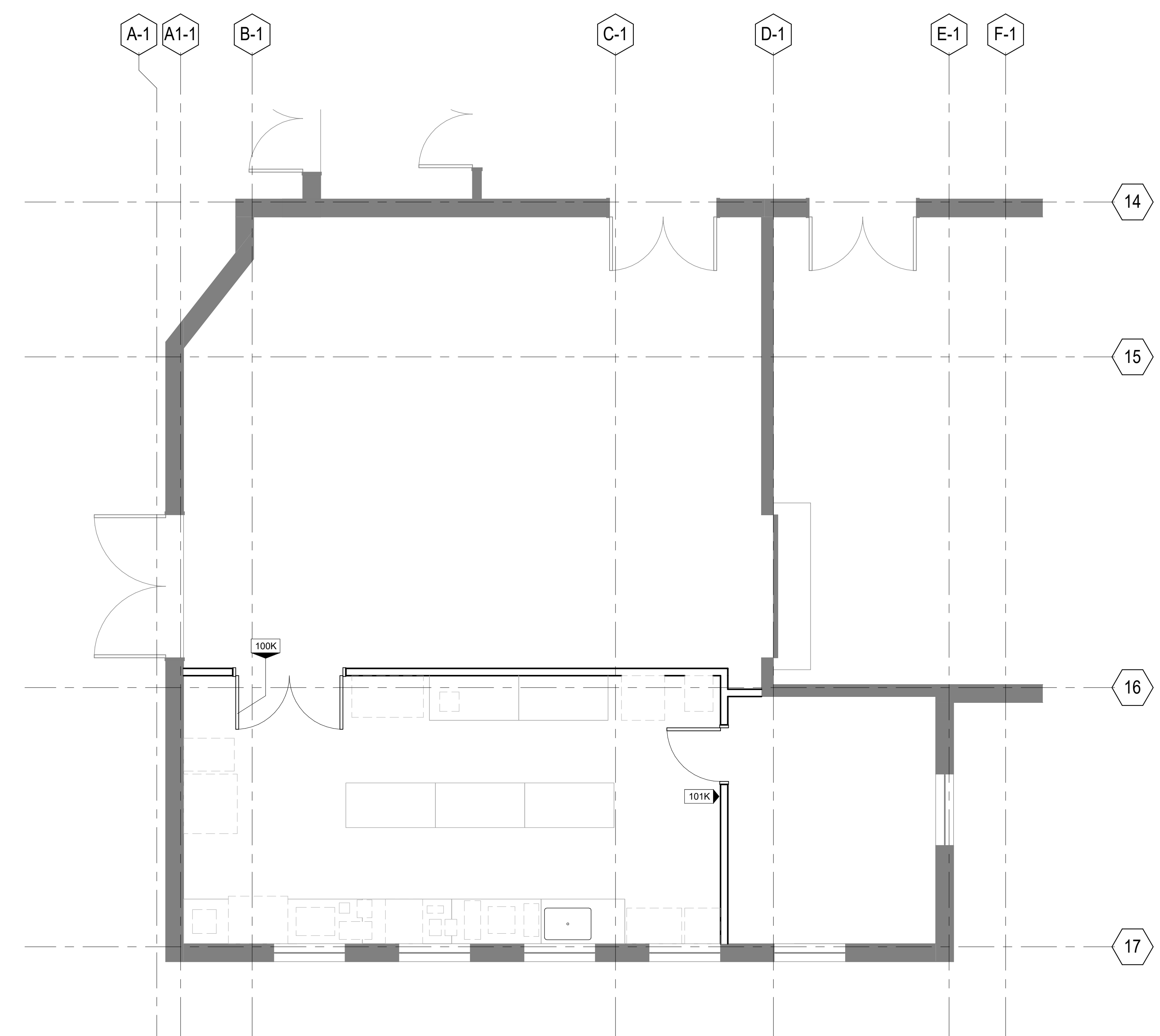
PROJECT: 15085.11
SCALE: 1/4" = 1'-0"

ARCHITECTURE

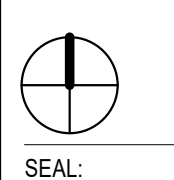
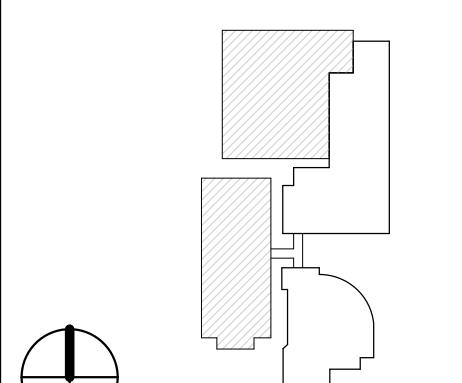
TITLE:
FIRST FLOOR SIGNAGE PLAN

NUMBER:

A910



KEYPLAN:



SEAL:

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DRAWING ISSUE

PROJECT: 15085.11

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

ARCHITECTURE

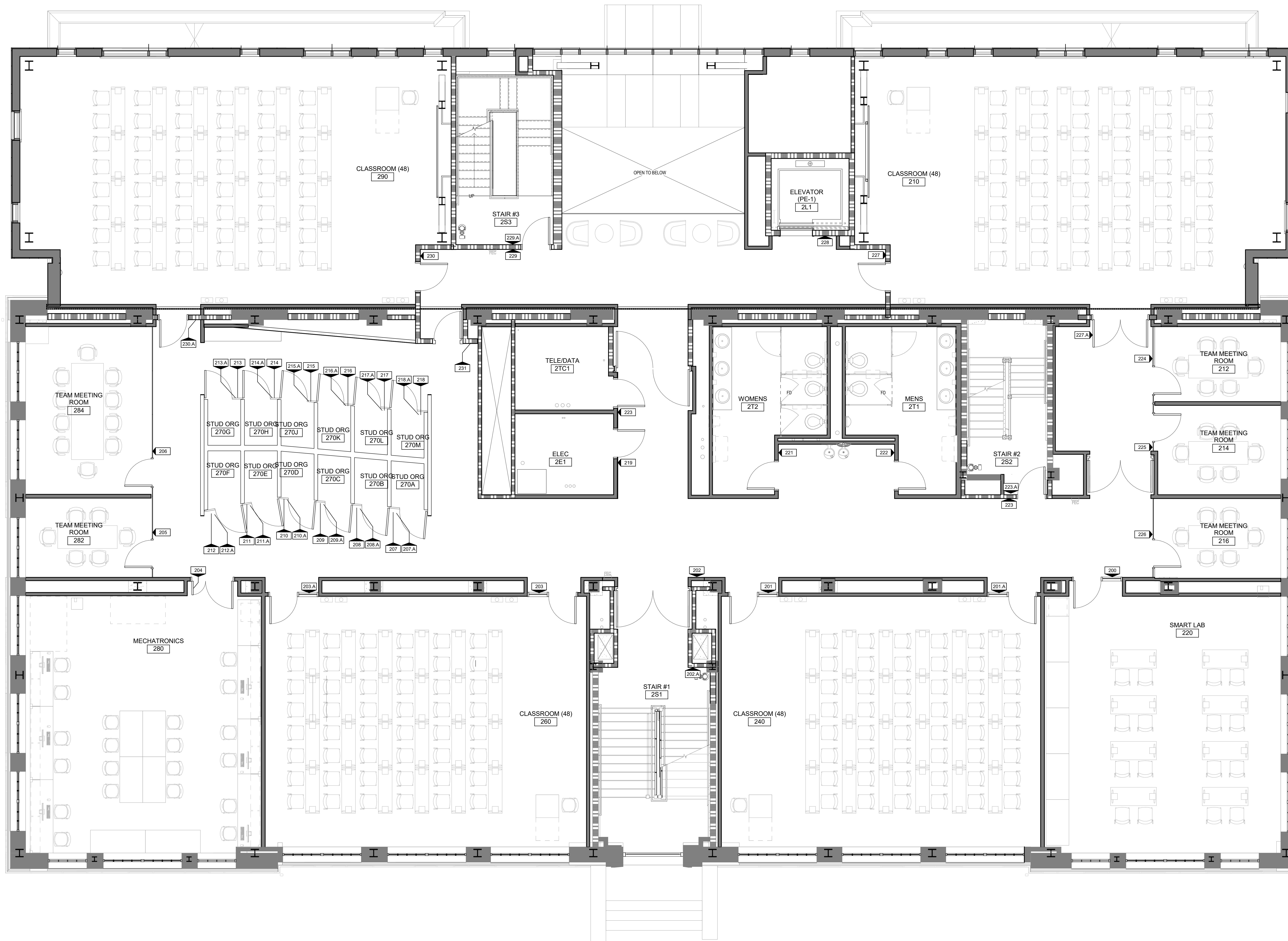
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FIRST FLOOR SIGNAGE PLAN (KIRK)

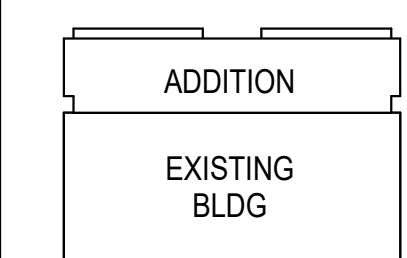
NUMBER:

A910.1

1/4" = 1'-0" 1 SIGNAGE PLAN
ASPHALT LAB - FIRST FLOOR PLAN SIGNAGE PLAN



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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ARCHITECTURE

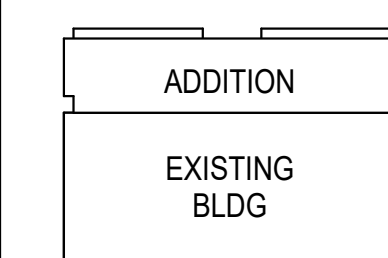
TITLE:
SECOND FLOOR SIGNAGE PLAN

NUMBER:

A911



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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11

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

ARCHITECTURE

TITLE:

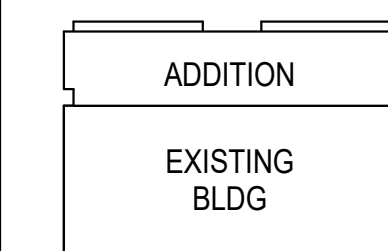
THIRD FLOOR SIGNAGE PLAN

NUMBER:

A912



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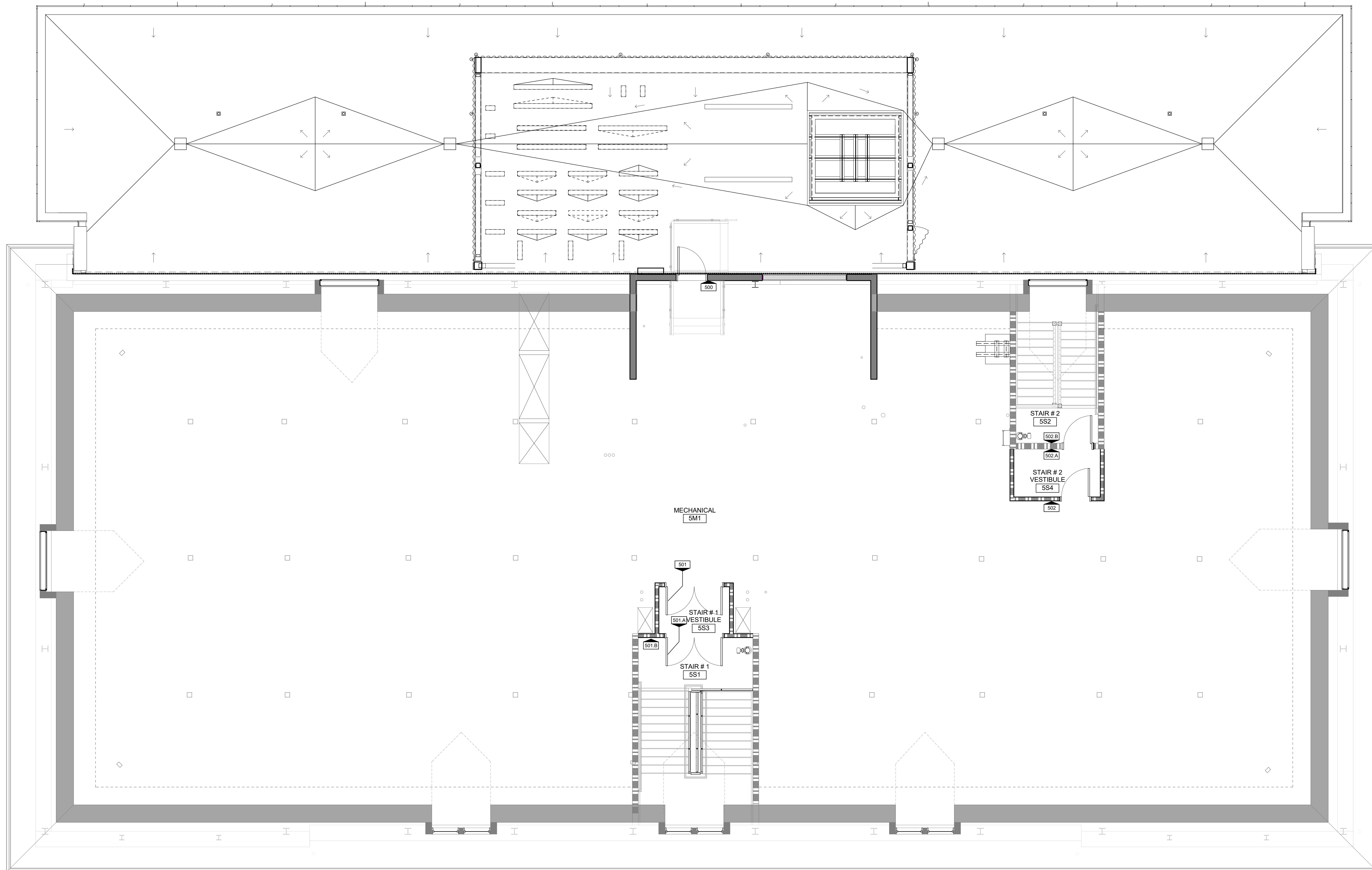
07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
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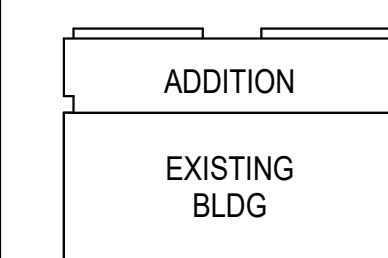
TITLE:
FOURTH FLOOR
SIGNAGE PLAN

NUMBER:

A913



KEYPLAN:



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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ARCHITECTURE

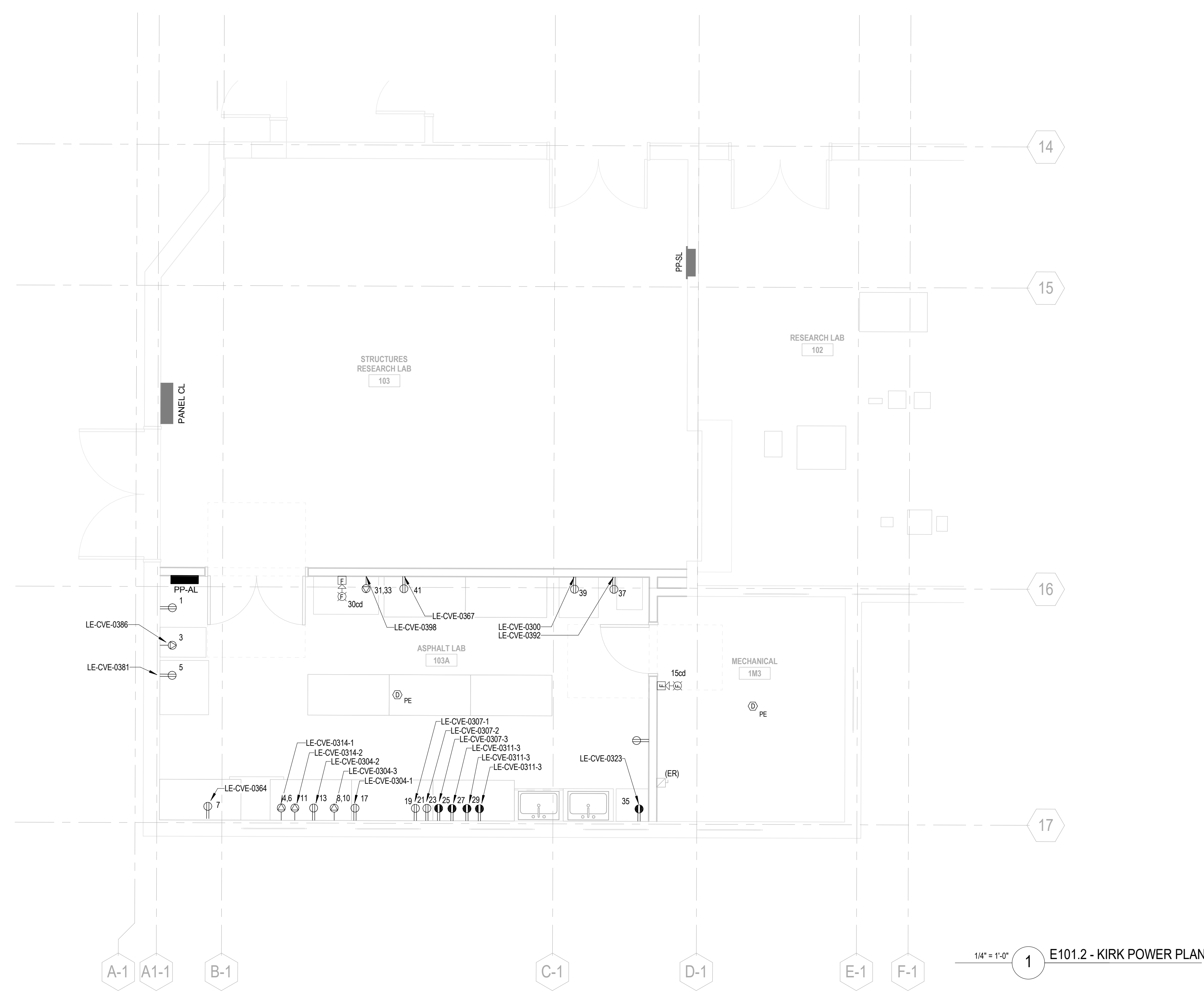
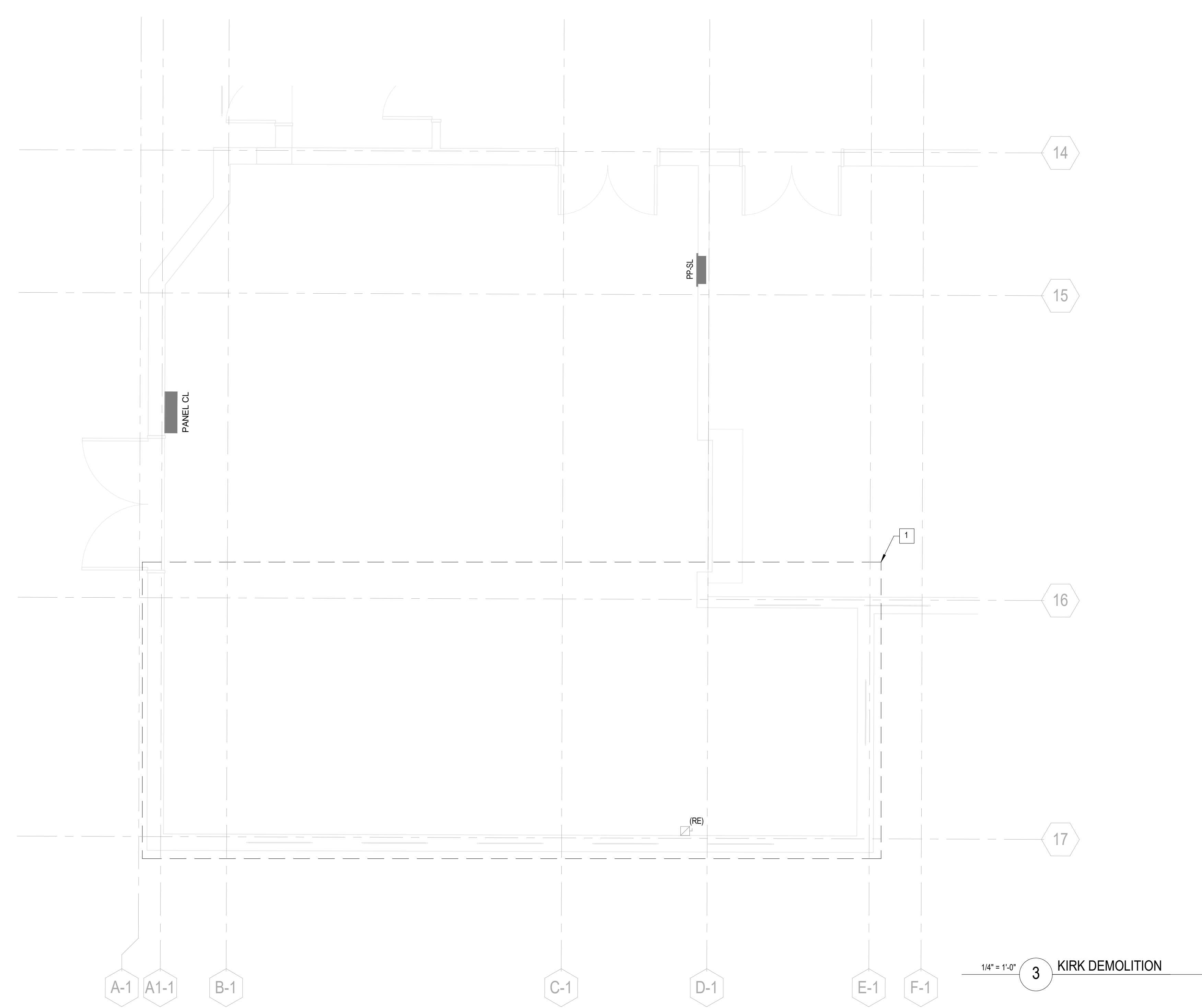
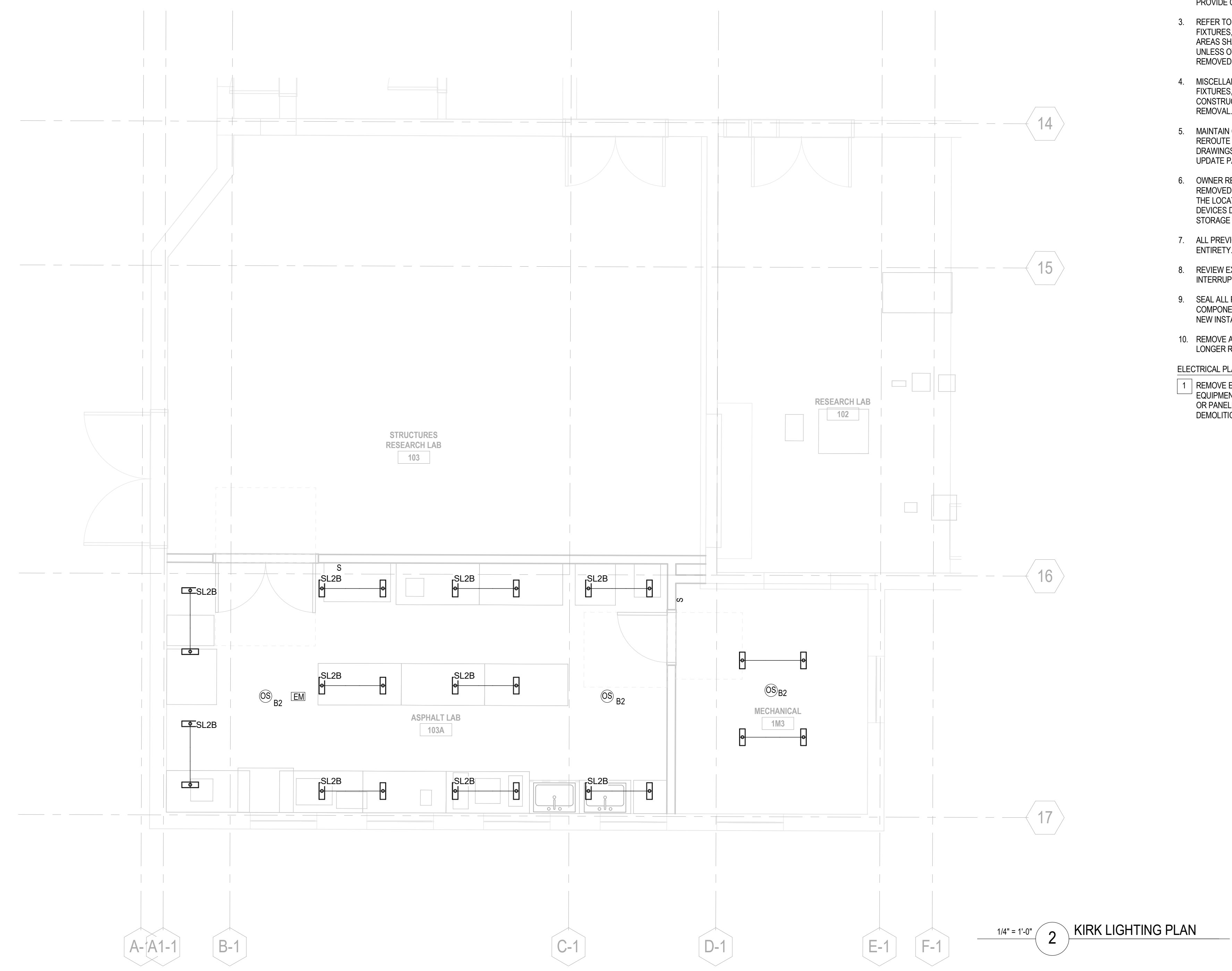
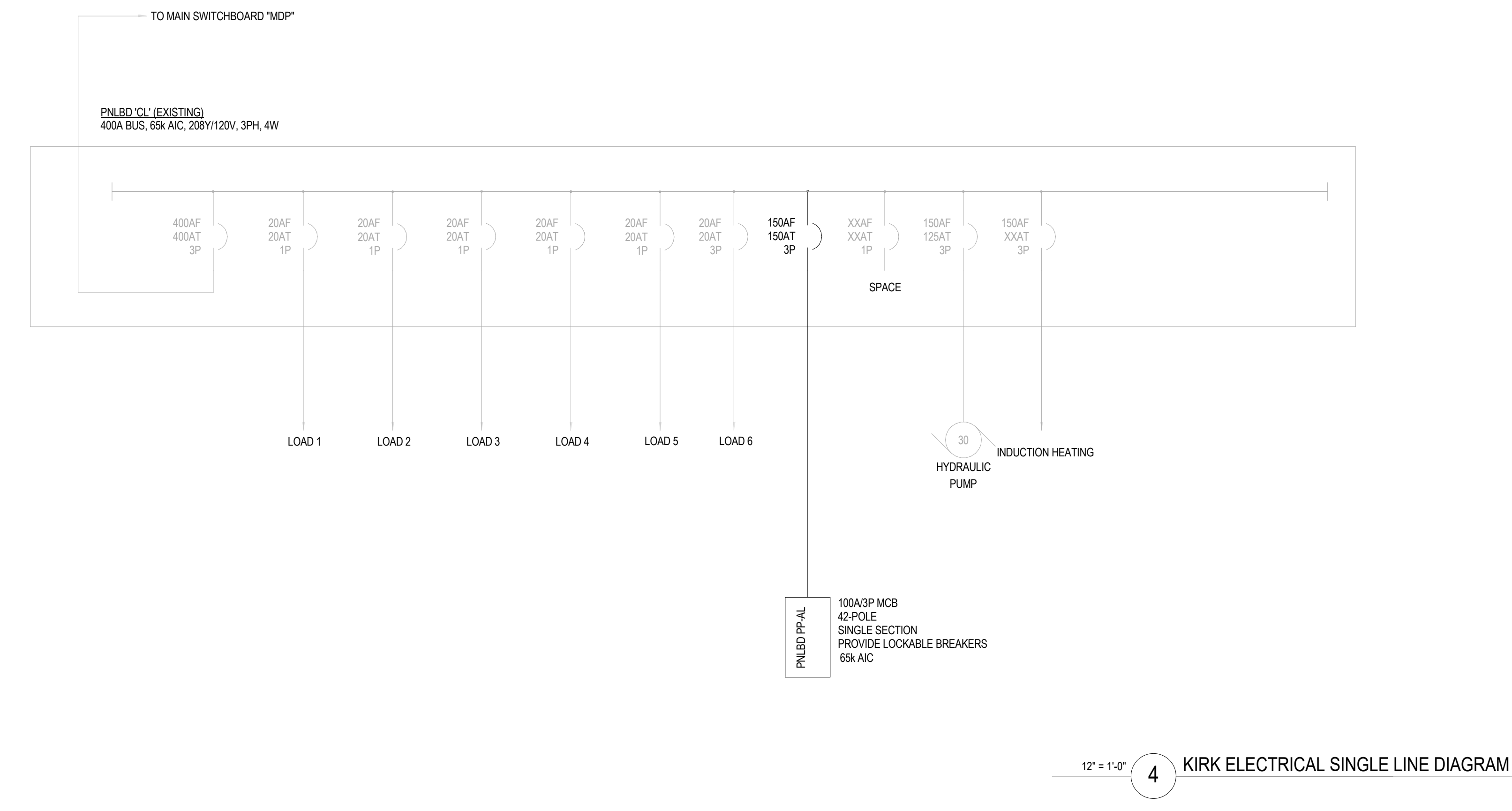
TITLE:
FIFTH FLOOR SIGNAGE PLAN

NUMBER:
A914

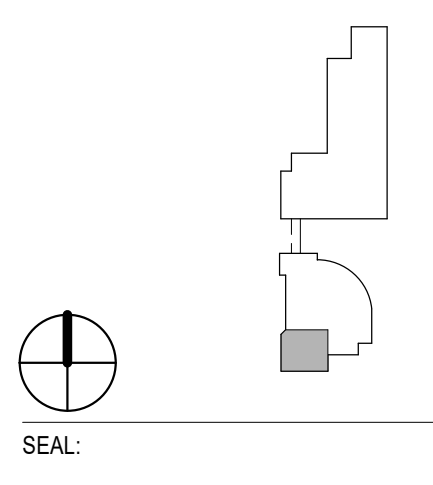
- GENERAL ELECTRICAL PLAN NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 - FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E100.

- GENERAL DEMOLITION NOTES:
- COORDINATE DEMOLITION AND NEW WORK WITH ALL DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - PERFORM ALL WORK IN ACCORDANCE WITH THE ELECTRICAL CODE, O.S.H.A., PERTINENT NFPA CODES, THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTIONS, AND ALL STANDARDS APPLIED BY THE BUILDING MANAGEMENT. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION.
 - REFER TO ARCHITECTURAL DRAWINGS FOR AREAS OF DEMOLITION. EXISTING LIGHTING FIXTURES, EXIT SIGNS, AND OTHER CEILING MOUNTED DEVICES TO BE REMOVED IN THESE AREAS SHALL BE DISCONNECTED FROM THEIR EXISTING SOURCES TO ALLOW FOR REMOVAL UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS. WIRING AND CONDUIT SHALL BE REMOVED BACK TO SOURCE PANEL.
 - MISCELLANEOUS WIRING DEVICES, TELECOMMUNICATION DEVICES, EXIT LIGHTS, LIGHTING FIXTURES, ETC. MOUNTED ON PARTITIONS TO BE REMOVED OR CONCEALED BY NEW CONSTRUCTION SHALL BE DISCONNECTED FROM THEIR SERVICE SOURCE TO ALLOW FOR REMOVAL.
 - MAINTAIN CONTINUITY OF ALL ACTIVE LIGHTING & POWER CIRCUITS. INTERRUPT WIRING AND REROUTE WHERE REQUIRED TO POWER EXISTING DEVICES TO REMAIN. PROVIDE AS-BUILT DRAWINGS INDICATING ALL RELOCATIONS AND CIRCUIT ADJUSTMENTS IN PANELBOARDS. UPDATE PANELBOARD CIRCUIT DIRECTORIES FOR ALL PANELBOARDS AFFECTED BY THE WORK.
 - OWNER RETAINS RIGHTS OF SALVAGE FOR ELECTRICAL EQUIPMENT AND LIGHT FIXTURES TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT AND FIXTURES TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT, FIXTURES AND DEVICES DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
 - ALL PREVIOUSLY ABANDONED OR OBSOLETE CONDUIT AND WIRING SHALL BE REMOVED IN ITS ENTIRETY.
 - REVIEW EXISTING CONDITIONS PRIOR TO START OF DEMOLITION AND COORDINATE ANY POWER INTERRUPTIONS WITH OWNER'S REPRESENTATIVE.
 - SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILINGS, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS.
 - REMOVE ALL EXISTING ELECTRICAL EQUIPMENT, FIXTURES, SYSTEMS, CONDUIT AND WIRING NO LONGER REQUIRED AFTER PROJECT COMPLETION.

- ELECTRICAL PLAN KEYED NOTES:
- REMOVE EXISTING LIGHTING FIXTURES, LIGHTING CONTROLS, FIRE ALARM ELECTRICAL EQUIPMENT AND DEVICES WITHIN THIS AREA (NOT SHOWN) BACK TO ORIGINATING JUNCTION BOX OR PANELBOARD. ALL SPARE CIRCUIT BREAKERS SHALL BE TURNED OFF AND LABELED "SPARE". DEMOLITION SHALL NOT AFFECT ACTIVE CIRCUITS.



KEYPLAN



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DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated
ELECTRICAL

TITLE:
FIRST FLOOR (KIRK)
ELECTRICAL PLAN

NUMBER:

E101.2

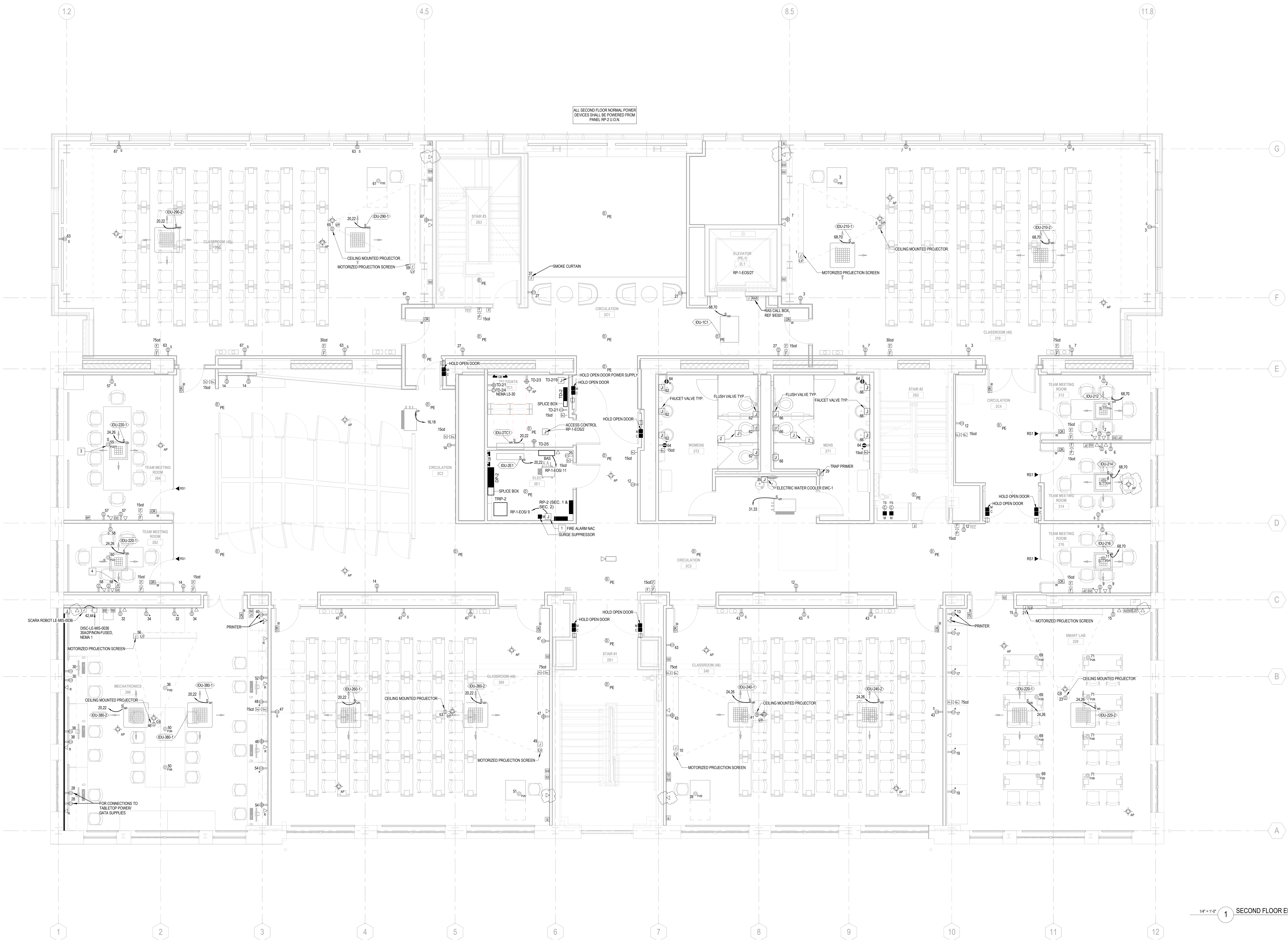
ELECTRICAL PLAN KEYED NOTES:

- 1 PROVIDE EXTERNALLY MOUNTED 60-MINUTE BATTERY BACKUP AND DTK-100SRD SURGE SUPPRESSOR WITH MONITOR MODULE. REFER TO DIV 28 SPECIFICATIONS.
- 2 PROVIDE (1) LINE VOLTAGE TRANSFORMER TO FEED ALL FLUSH VALVES IN RESTROOMS.
- 3 PROVIDE 1-1/4" CONDUIT FROM POKE-THRU TO WALL MOUNTED "D2" TV BACK BOX.
- 4 MOUNT "D2" 18" BELOW "D2" AND PROVIDE 1-1/4" CONDUIT BETWEEN THE BOXES.

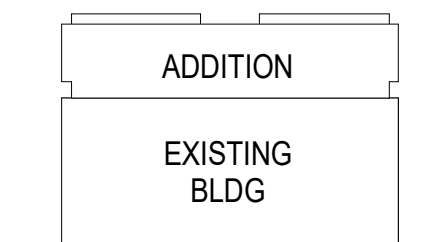
GENERAL ELECTRICAL PLAN NOTES:

1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
2. FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E101.

ALL SECOND FLOOR NORMAL POWER DEVICES SHALL BE POWERED FROM PANEL RP-2 U.O.N.



KEY PLAN:



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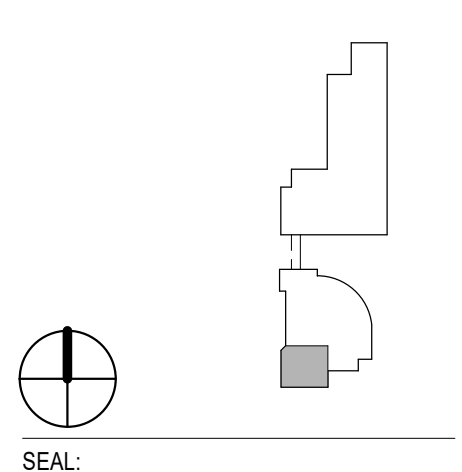
07/05/18 ISSUE 5
07/17/18 ISSUE 6
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ELECTRICAL

TITLE:
SECOND FLOOR ELECTRICAL PLAN

NUMBER:
E102

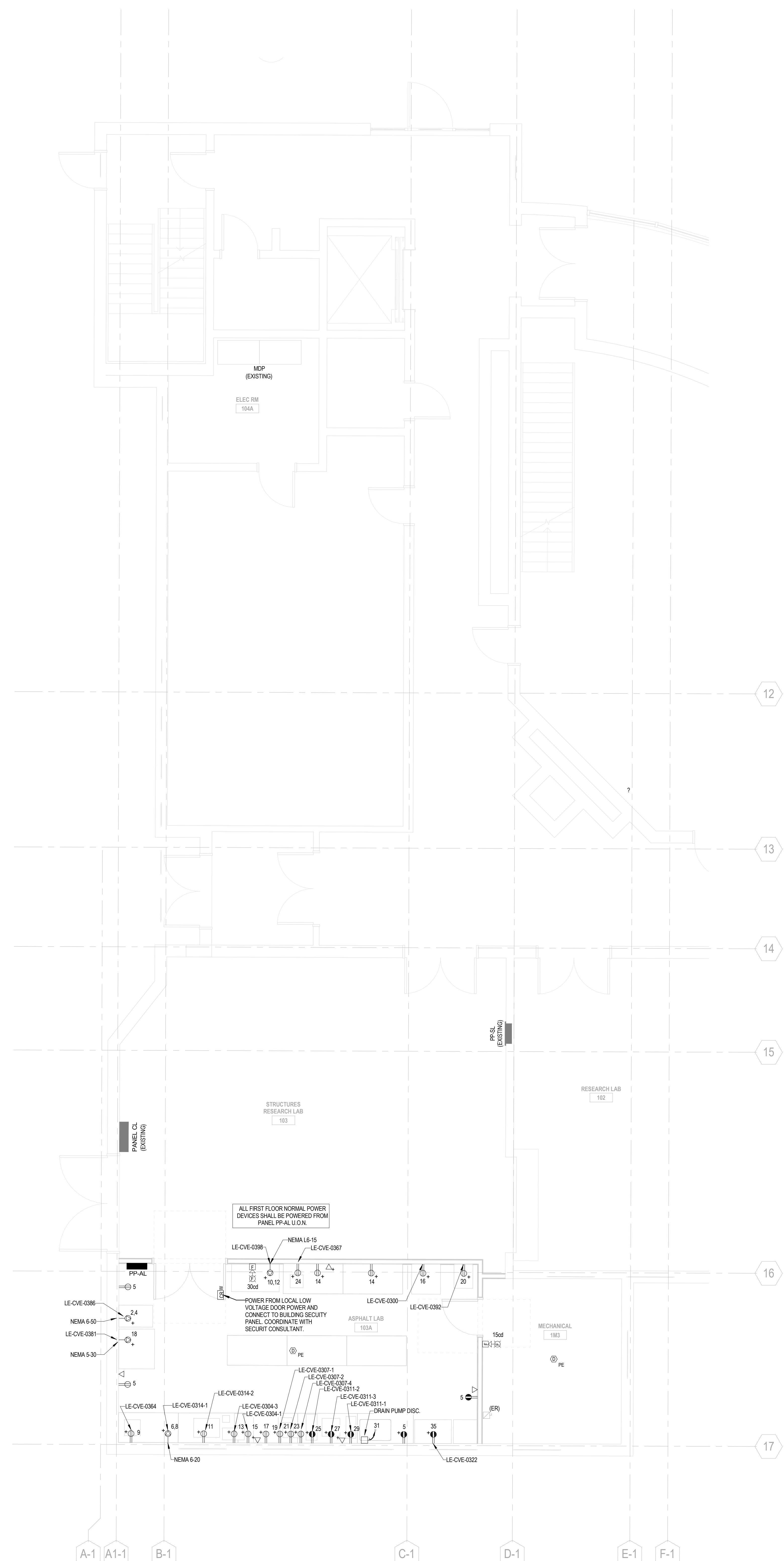
1/4" = 1'-0" 1 SECOND FLOOR ELECTRICAL PLAN



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1/4" = 1'-0" 2 KIRK ELECTRICAL PLAN - ROOF



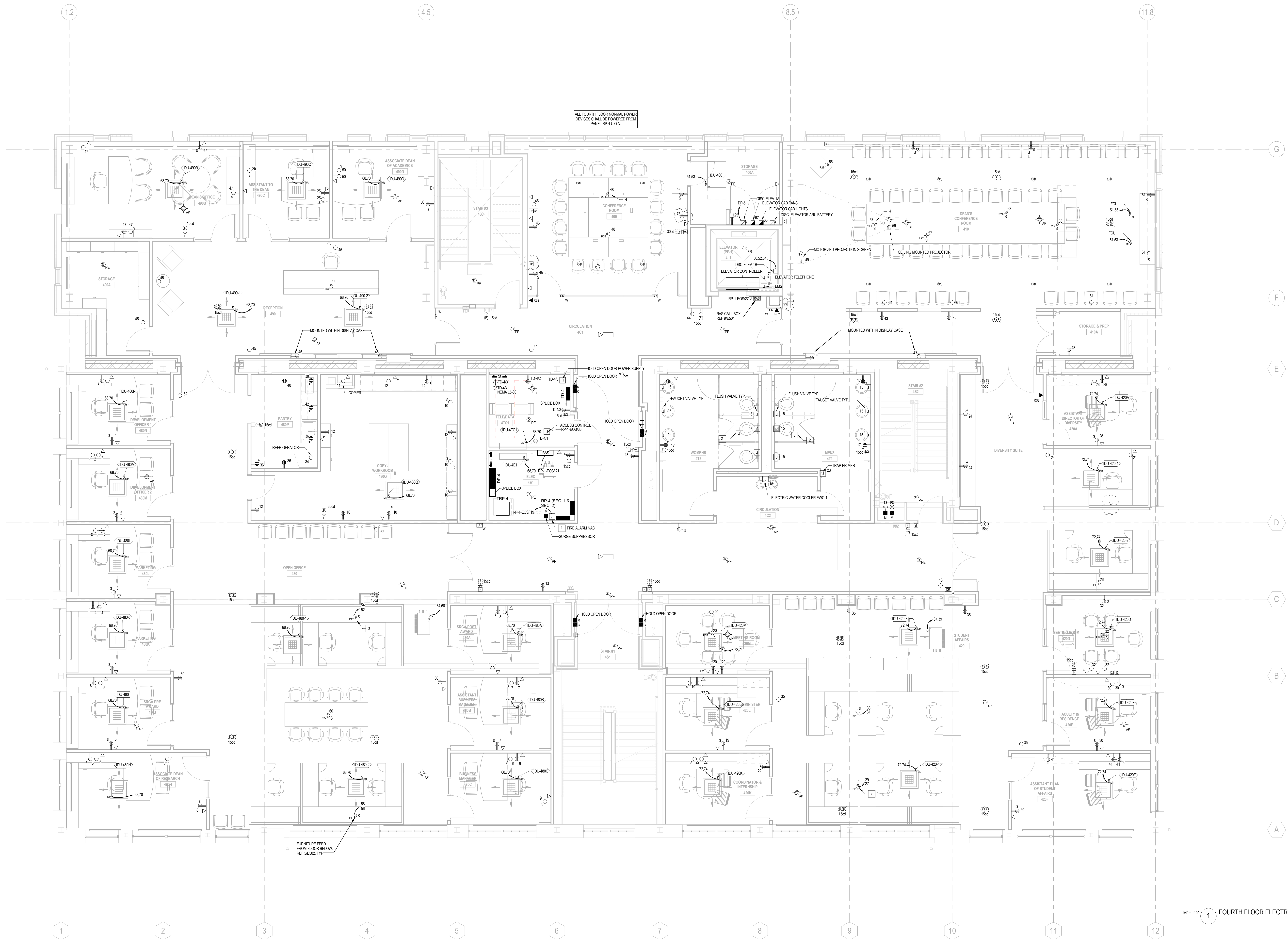
1/4" = 1'-0" 1 KIRK ELECTRICAL PLAN - FIRST FLOOR

ELECTRICAL PLAN KEYED NOTES:

- 1 PROVIDE EXTERNALLY MOUNTED 60-MINUTE BATTERY BACKUP AND DTK-1000 SURGE SUPPRESSOR WITH MONITOR MODULE. REFER TO DIV 28 SPECIFICATIONS.
- 2 PROVIDE (1) LINE VOLTAGE TRANSFORMER TO FEED ALL FLUSH VALVES IN RESTROOMS.
- 3 SWITCH 50% OF BRANCH CIRCUIT FEEDERS FOR MODULAR FURNITURE (TYP.)
- 4 PROVIDE 1-1/2" CONDUIT FROM POKE-THRU TO PODIUM. STUB UP BENEATH PODIUM. COORDINATE WITH AV DRAWINGS. TYP.
- 5 PROVIDE 1-1/2" CONDUIT FROM POKE-THRU TO AV CREDENSA.

GENERAL ELECTRICAL PLAN NOTES:

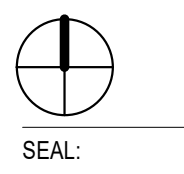
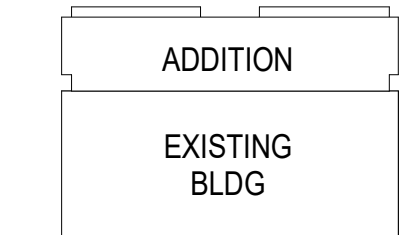
- 1 FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
- 2 FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E101.



ALL FOURTH FLOOR NORMAL POWER DEVICES SHALL BE POWERED FROM PANEL RP-4 U.O.N.

FURNITURE FEED FROM FLOOR BELOW, REF 54502, TYP.

KEY PLAN



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07/05/18 ISSUE 5
07/17/18 ISSUE 6
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"

ELECTRICAL

TITLE:

FOURTH FLOOR ELECTRICAL PLAN

NUMBER:

E104

1/4" = 1'-0" 1 FOURTH FLOOR ELECTRICAL PLAN

ELECTRICAL PLAN KEYED NOTES:

- 1 PROVIDE EXTERNALLY MOUNTED 60-HOUR BATTERY BACKUP AND DTK-100R0 SURGE SUPPRESSOR WITH MONITOR MODULE. REFER TO DIV 25 SPECIFICATIONS.
- 2 PROVIDE POWER CONNECTION FROM DPS AND DISCONNECT SWITCH ON DIVISION 23 EQUIPMENT SIZED AS SHOWN ON SINGLE LINE DIAGRAM.

GENERAL ELECTRICAL PLAN NOTES:

1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
2. FOR ADDITIONAL GENERAL POWER PLAN NOTES, REFER TO SHEET E101.

ALL FIFTH FLOOR NORMAL POWER DEVICES SHALL BE POWERED FROM PANEL RP-5 U.O.A.



1/4" = 1'-0" 1 FIFTH FLOOR ELECTRICAL PLAN

CHANNEL	DESCRIPTION
CH-1	TOTAL ELECTRICAL ENERGY
CH-2	HVAC SYSTEMS
CH-3	LIGHTING
CH-4	RECECTACLE CIRCUITS

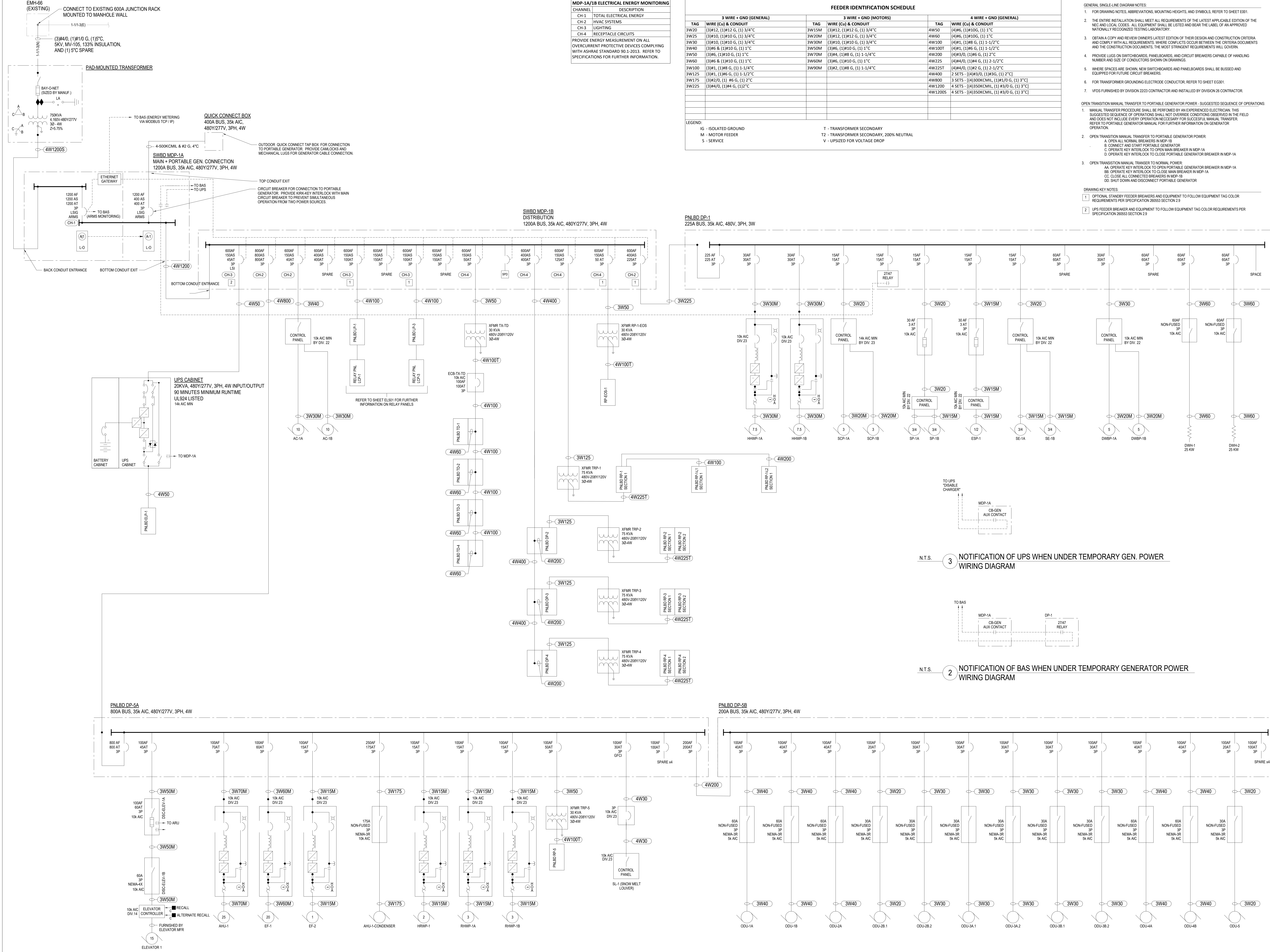
PROVIDE ENERGY MEASUREMENT ON ALL OVERCURRENT PROTECTIVE DEVICES COMPLYING WITH ASHRAE STANDARD 90.1-2013. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

FEEDER IDENTIFICATION SCHEDULE

3 WIRE + GND (GENERAL)			3 WIRE + GND (MOTORS)			4 WIRE + GND (GENERAL)		
TAG	WIRE (Cu) & CONDUIT		TAG	WIRE (Cu) & CONDUIT		TAG	WIRE (Cu) & CONDUIT	
3W20	(3) #12, (1) #12 G, (1) 3/4" C		3W15M	(3) #12, (1) #12 G, (1) 3/4" C		4W50	(4) #6, (1) #10G, (1) 1" C	
3W25	(3) #10, (1) #10 G, (1) 3/4" C		3W20M	(3) #12, (1) #12 G, (1) 3/4" C		4W60	(4) #6, (1) #10G, (1) 1" C	
3W30	(3) #10, (1) #10 G, (1) 3/4" C		3W30M	(3) #10, (1) #10 G, (1) 3/4" C		4W100	(4) #6, (1) #10 G, (1) 1-1/2" C	
3W40	(3) #6, (1) #10 G, (1) 1" C		3W50M	(3) #6, (1) #10 G, (1) 1" C		4W100T	(4) #6, (1) #10 G, (1) 1-1/2" C	
3W50	(3) #6, (1) #10 G, (1) 1" C		3W70M	(3) #4, (1) #8 G, (1) 1-1/4" C		4W200	(4) #3/0, (1) #6 G, (1) 2" C	
3W60	(3) #6, (1) #10 G, (1) 1" C		3W60M	(3) #6, (1) #10 G, (1) 1" C		4W225	(4) #4/0, (1) #4 G, (1) 2-1/2" C	
3W100	(3) #1, (1) #8 G, (1) 1-1/4" C		3W90M	(3) #2, (1) #8 G, (1) 1-1/4" C		4W225T	(4) #4/0, (1) #2 G, (1) 2-1/2" C	
3W125	(3) #1, (1) #6 G, (1) 1-1/2" C					4W400	2 SETS - (1) #6/0, (1) #6G, (1) 2" C	
3W175	(3) #2/0, (1) #6 G, (1) 2" C					4W800	3 SETS - (1) #300CMIL, (1) #1/0 G, (1) 3" C	
3W225	(3) #4/0, (1) #4 G, (1) 2" C					4W1200	4 SETS - (1) #350CMIL, (1) #3/0 G, (1) 3" C	
						4W1200S	4 SETS - (1) #350CMIL, (1) #3/0 G, (1) 3" C	

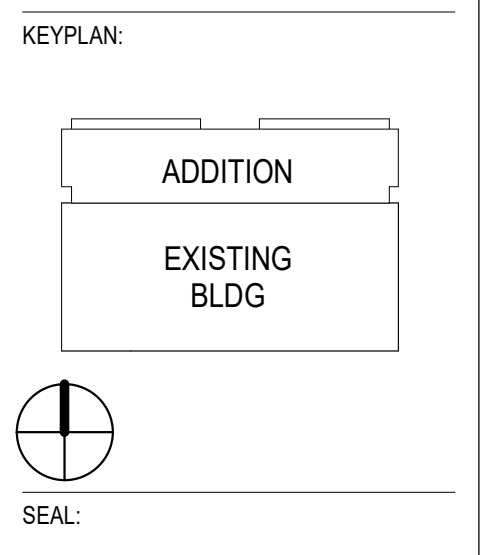
LEGEND:
IG - ISOLATED GROUND
M - MOTOR FEEDER
S - SERVICE
T - TRANSFORMER SECONDARY
T2 - TRANSFORMER SECONDARY, 200% NEUTRAL
V - UPSIZED FOR VOLTAGE DROP

- GENERAL SINGLE-LINE DIAGRAM NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET 6001.
 - THE ENTIRE INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE LATEST APPLICABLE EDITION OF THE NEC AND LOCAL CODES. ALL EQUIPMENT SHALL BE LISTED AND BEAR THE LABEL OF AN APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY.
 - OBTAIN A COPY AND REVIEW OWNER'S LATEST EDITION OF THEIR DESIGN AND CONSTRUCTION CRITERIA AND COMPLY WITH ALL REQUIREMENTS. WHERE CONFLICTS OCCUR BETWEEN THE CRITERIA DOCUMENTS AND THE CONSTRUCTION DOCUMENTS, THE MOST STRINGENT REQUIREMENTS WILL GOVERN.
 - PROVIDE LUGS ON SWITCHBOARDS, PANELBOARDS, AND CIRCUIT BREAKERS CAPABLE OF HANDLING NUMBER AND SIZE OF CONDUCTORS SHOWN ON DRAWINGS.
 - WHERE SPACES ARE SHOWN NEW SWITCHBOARDS AND PANELBOARDS SHALL BE BUSSED AND EQUIPPED FOR FUTURE CIRCUIT BREAKERS.
 - FOR TRANSFORMER GROUNDING ELECTRODE CONDUCTOR, REFER TO SHEET 6001.
 - VFD'S FURNISHED BY DIVISION 2223 CONTRACTOR AND INSTALLED BY DIVISION 26 CONTRACTOR.
- OPEN TRANSFER/MANUAL TRANSFER TO PORTABLE GENERATOR POWER - SUGGESTED SEQUENCE OF OPERATIONS:
- MANUAL TRANSFER PROCEDURE SHALL BE PERFORMED BY AN EXPERIENCED ELECTRICAL. THIS SUGGESTED SEQUENCE OF OPERATIONS SHALL NOT OVERRIDE CONDITIONS OBSERVED IN THE FIELD AND DOES NOT INCLUDE EVERY OPERATION NECESSARY FOR SUCCESSFUL MANUAL TRANSFER. REFER TO PORTABLE GENERATOR MANUAL FOR FURTHER INFORMATION ON GENERATOR OPERATION.
 - OPEN TRANSITION/MANUAL TRANSFER TO PORTABLE GENERATOR POWER:
 - OPEN ALL NORMAL BREAKERS IN MDP-1B
 - CONNECT AND START PORTABLE GENERATOR
 - OPERATE KEY INTERLOCK TO OPEN MAIN BREAKER IN MDP-1A
 - OPERATE KEY INTERLOCK TO CLOSE PORTABLE GENERATOR BREAKER IN MDP-1A
 - OPEN TRANSITION/MANUAL TRANSFER TO NORMAL POWER:
 - OPERATE KEY INTERLOCK TO OPEN PORTABLE GENERATOR BREAKER IN MDP-1A
 - OPERATE KEY INTERLOCK TO CLOSE MAIN BREAKER IN MDP-1A
 - CLOSE ALL CONNECTED BREAKERS IN MDP-1B
 - SHUT DOWN AND DISCONNECT PORTABLE GENERATOR
- DRAWING KEY NOTES:
- OPTIONAL STANDBY FEEDER BREAKERS AND EQUIPMENT TO FOLLOW EQUIPMENT TAG COLOR REQUIREMENTS PER SPECIFICATION 26553 SECTION 2.3
 - UPS FEEDER BREAKER AND EQUIPMENT TO FOLLOW EQUIPMENT TAG COLOR REQUIREMENTS PER SPECIFICATION 26553 SECTION 2.3



N.T.S. 3 NOTIFICATION OF UPS WHEN UNDER TEMPORARY GEN. POWER WIRING DIAGRAM

N.T.S. 2 NOTIFICATION OF BAS WHEN UNDER TEMPORARY GENERATOR POWER WIRING DIAGRAM



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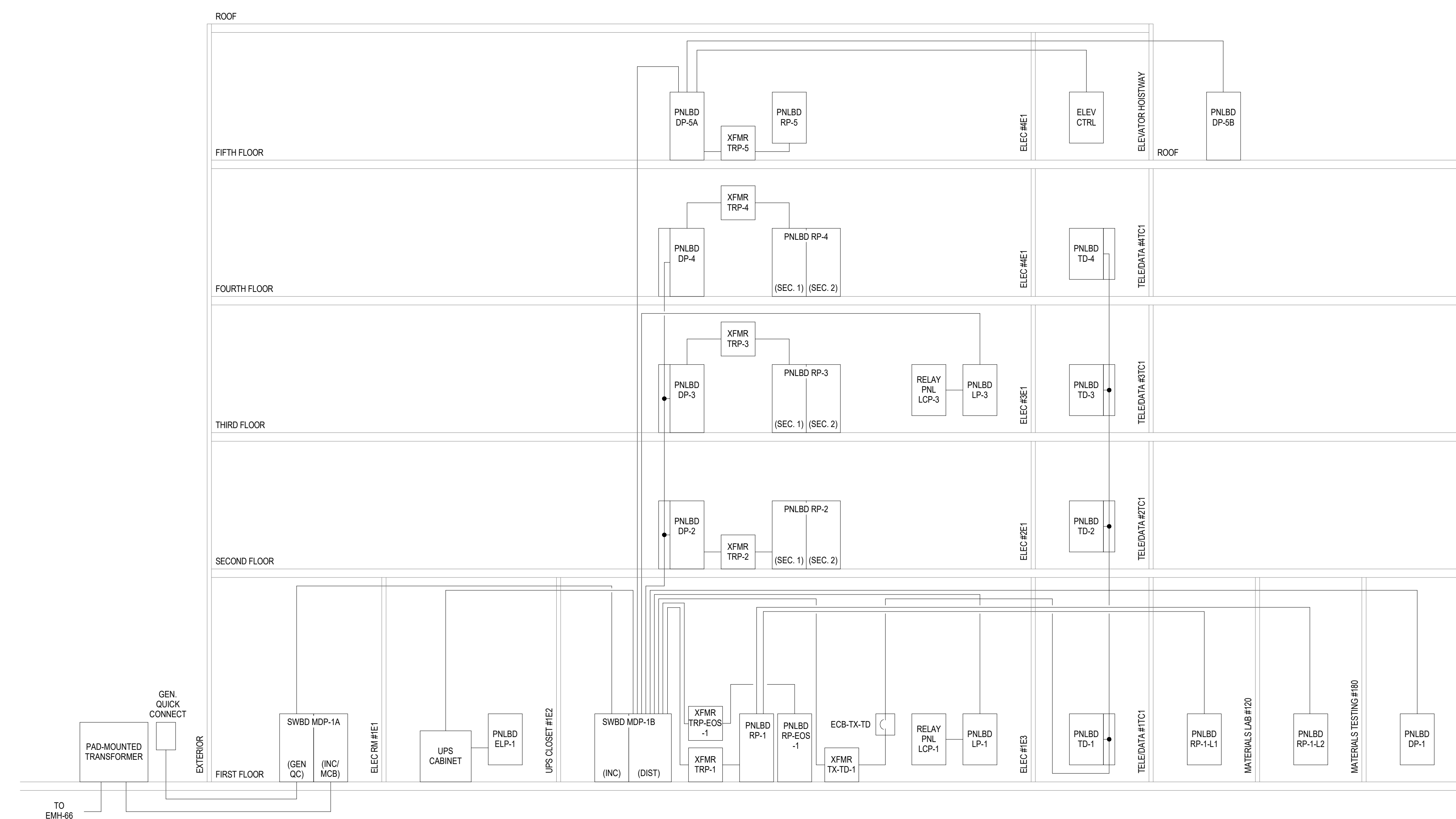
070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: N.T.S.
ELECTRICAL

TITLE:
ELECTRICAL SINGLE LINE DIAGRAM

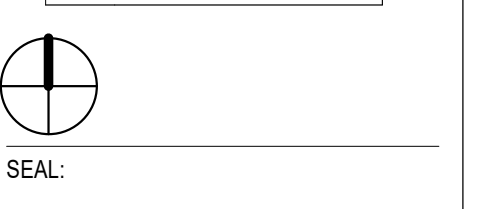
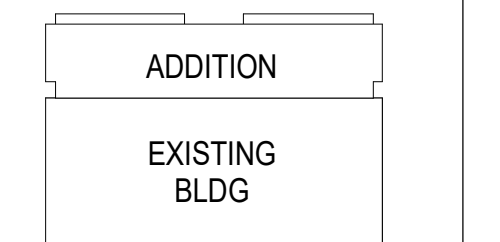
NUMBER:
E301

GENERAL DISTRIBUTION RISER DIAGRAM PLAN NOTES:
 1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 2. FOR EXACT LOCATION OF EQUIPMENT, REFER TO SHEET E101 AND E100 SERIES.
 3. E.C. SHALL COORDINATE EXACT ROUTING AND CONDUIT ENTRIES INTO EQUIPMENT WITH OTHER TRADES AND MANUFACTURER(S) PRIOR TO INSTALLATION.
 4. NOT ALL ELECTRICAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION EQUIPMENT MAY NECESSARILY BE SHOWN ON THE DISTRIBUTION RISER DIAGRAM, REFER TO SHEET E100 AND E100 SERIES FOR ADDITIONAL INFORMATION.



N.T.S. 1 DISTRIBUTION RISER DIAGRAM

KEYPLAN:



SEAL:

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070518 ISSUE 5
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: As indicated
 ELECTRICAL

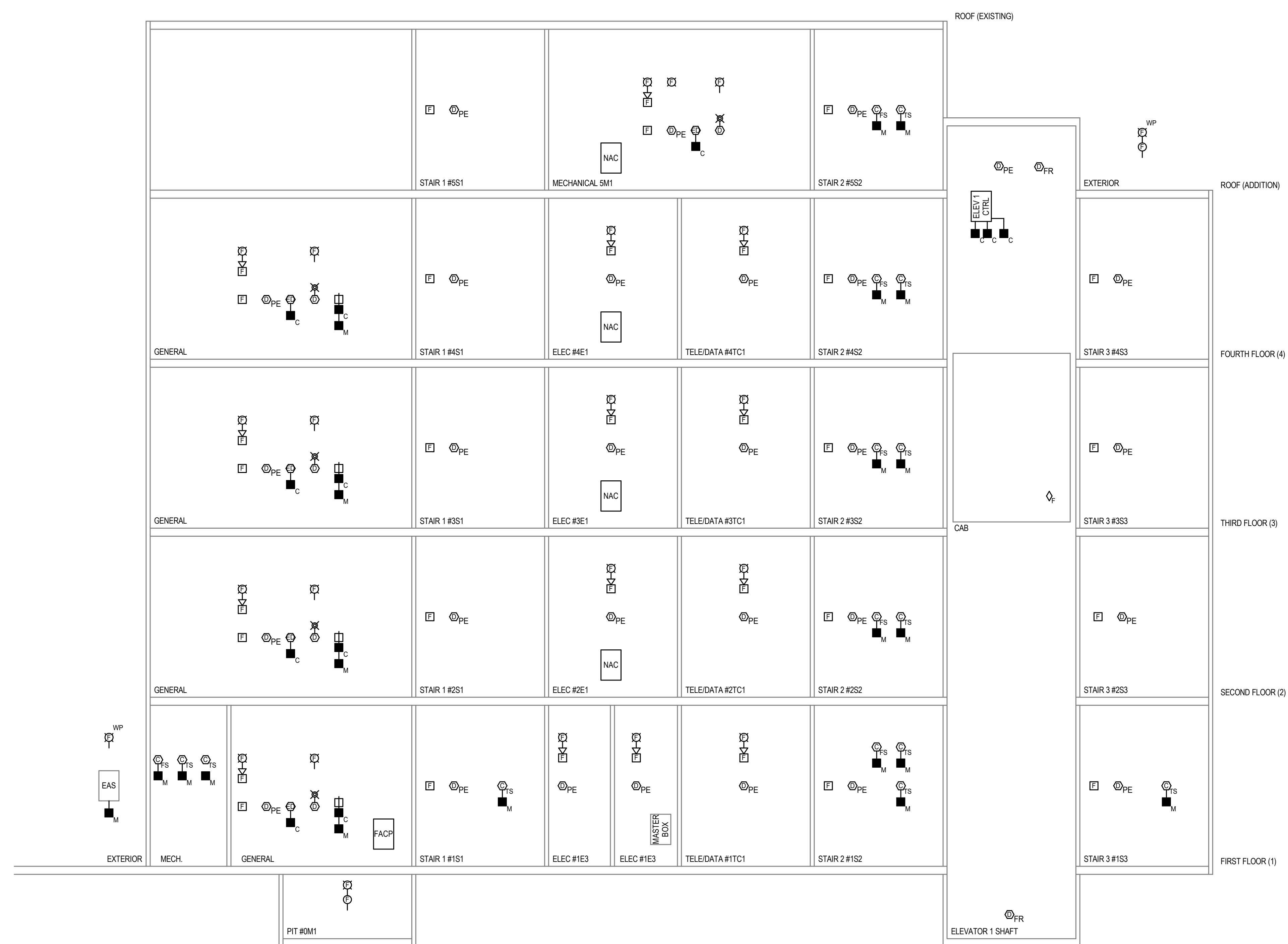
TITLE:
 DISTRIBUTION RISER DIAGRAM

NUMBER:
 E302

SYSTEM INPUTS	SYSTEM OUTPUTS													
	REPORT TO FIRE ALARM CONTROL PANEL (FACP)	AUDIO/VISUAL ALARM SIGNAL AT FACP	AUDIO/VISUAL SUPERSONIC SIGNAL AT FACP	ACTIVATE INTERIOR NOTIFICATION	ACTIVATE EXTERIOR AUDIO/VISUAL NOTIFICATION	SILENCE IN SYSTEM BACKS	RECORD EVENT IN MEMORY	ELEVATOR DESIGNATED FLOOR RECALL	ELEVATOR ALTERNATE FLOOR RECALL	SHUT DOWN AIR HANDLING UNIT AHU-1	CLOSE ASSOCIATED SMOKE DAMPER	AUDIBLE AND VISUAL TROUBLE SIGNAL	DISPLAY EXACT LOCATION OF DEVICE ON ANNUNCIATOR	RELEASE ELECTRICALLY HELD OPEN DOORS
MANUAL PULL STATION	X	X	-	X	X	X	X	X	-	-	-	-	X	X
SMOKE DETECTOR - GENERAL	X	X	-	X	X	X	X	X	-	-	-	-	X	X
SMOKE DETECTOR - SUPPLY & RETURN DUCT	X	-	X	-	X	X	X	X	-	-	X	-	X	-
SMOKE DETECTOR - AIR HANDLING UNIT	X	-	X	-	X	X	X	X	-	X	X	-	X	-
SMOKE DETECTOR - DESIGNATED FLOOR ELEVATOR LOBBY	X	X	-	X	X	X	X	-	X	-	-	-	X	X
SMOKE DETECTOR - ALL NON-DESIGNATED FLOOR ELEVATOR LOBBIES	X	X	-	X	X	X	X	X	-	-	-	-	X	X
SMOKE DETECTOR - ELEVATOR ELECTRICAL ROOM	X	X	-	X	X	X	X	X	-	-	-	-	X	-
HEAT DETECTOR - ELEVATOR HOISTWAY	X	X	-	X	X	X	X	X	-	-	-	-	X	-
HEAT DETECTOR - ELEVATOR PIT *	X	X	-	X	X	X	X	X	-	-	-	-	X	-
WATER FLOW SWITCH	X	-	-	X	X	X	X	X	-	-	-	-	X	X
VALVE TAMPER SWITCH	X	-	X	-	-	-	X	-	-	-	-	-	X	-
FIRE SUPPRESSION SYSTEM DISCHARGE SIGNAL	X	X	-	X	X	X	X	-	-	-	-	-	X	X
FIRE SUPPRESSION SYSTEM TROUBLE SIGNAL	X	X	-	-	-	-	X	-	-	-	-	X	X	-
ANY CIRCUIT OR DEVICE TROUBLE SIGNAL	X	X	-	-	-	-	X	-	-	-	-	X	X	-

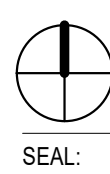
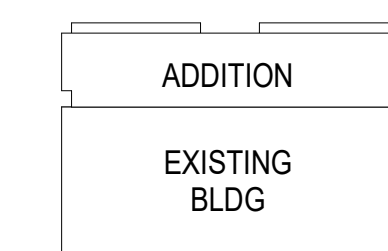
* NOTE: UPON HEAT DETECTION IN ELEVATOR PIT, ELEVATOR SHALL NOT RETURN TO FIRST FLOOR

N.T.S. 2 FIRE ALARM INPUT/OUTPUT MATRIX



N.T.S. 1 FIRE ALARM RISER DIAGRAM

KEYPLAN



SEAL:

CONDITION OF USE

THIS DOCUMENT IS PREPARED BY THE CONSULTANT AS A SERVICE TO THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT. THE CONSULTANT SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED IN THIS DOCUMENT.

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DRAWING ISSUE

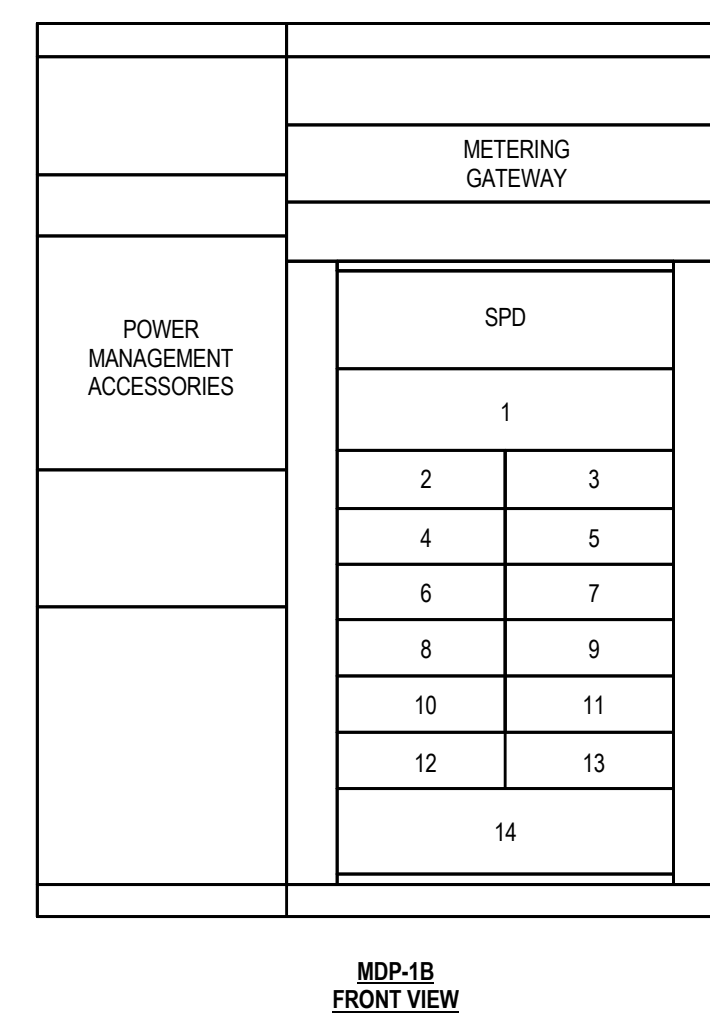
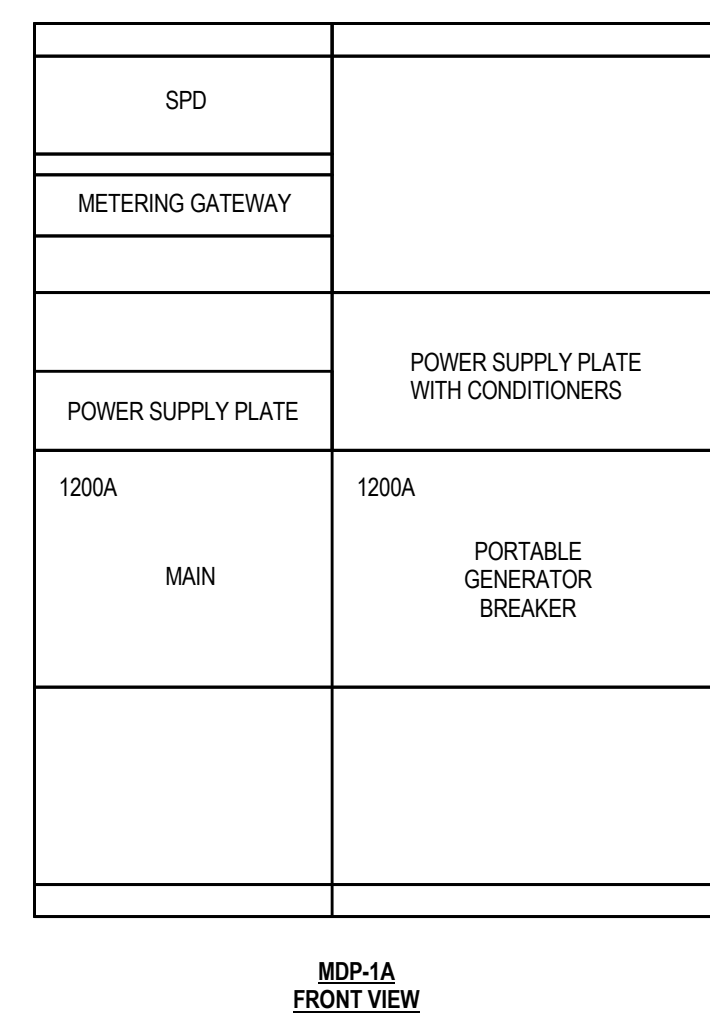
PROJECT: 15085.11
SCALE:

ELECTRICAL

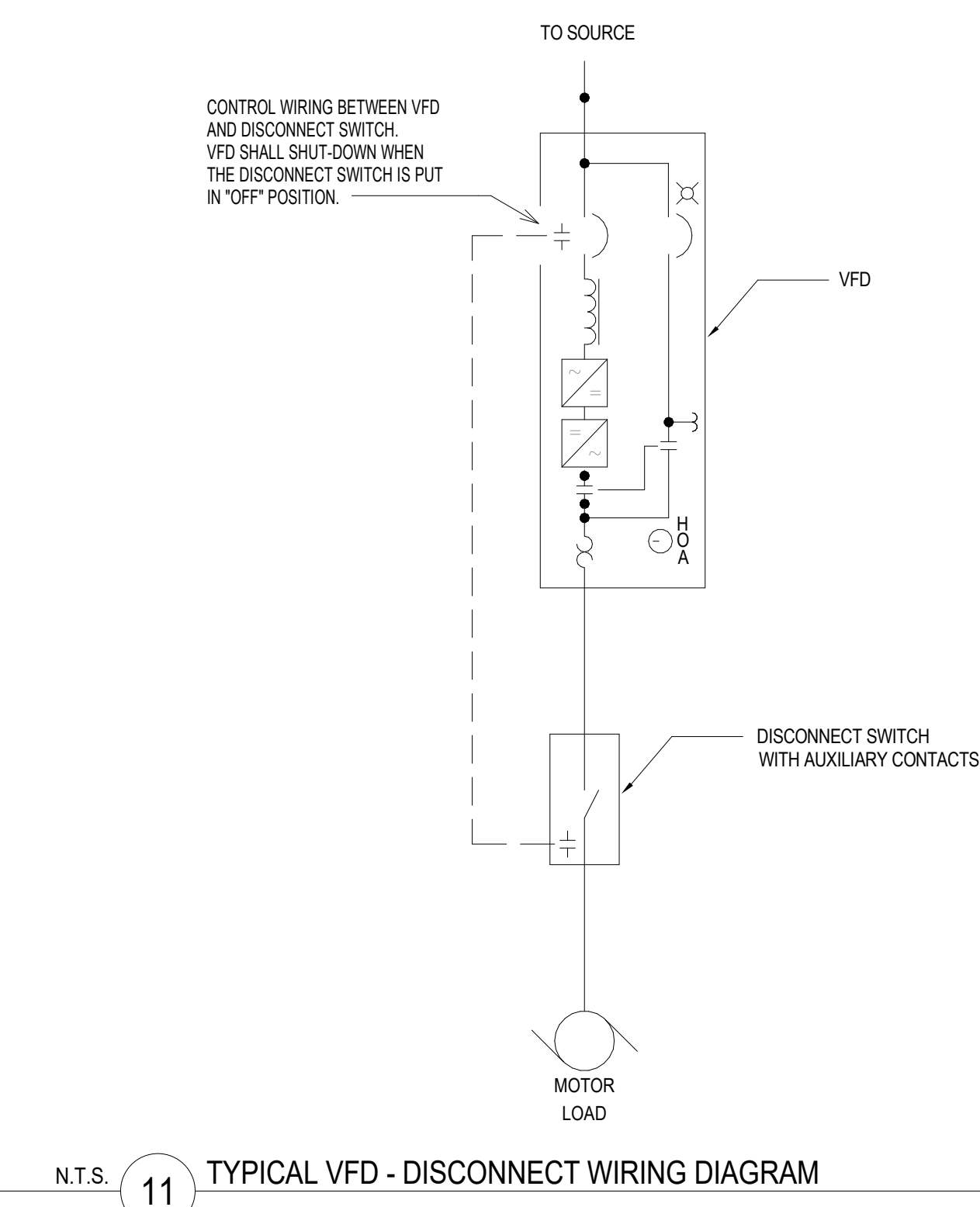
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FIRE ALARM RISER
DIAGRAM & I/O MATRIX

NUMBER:

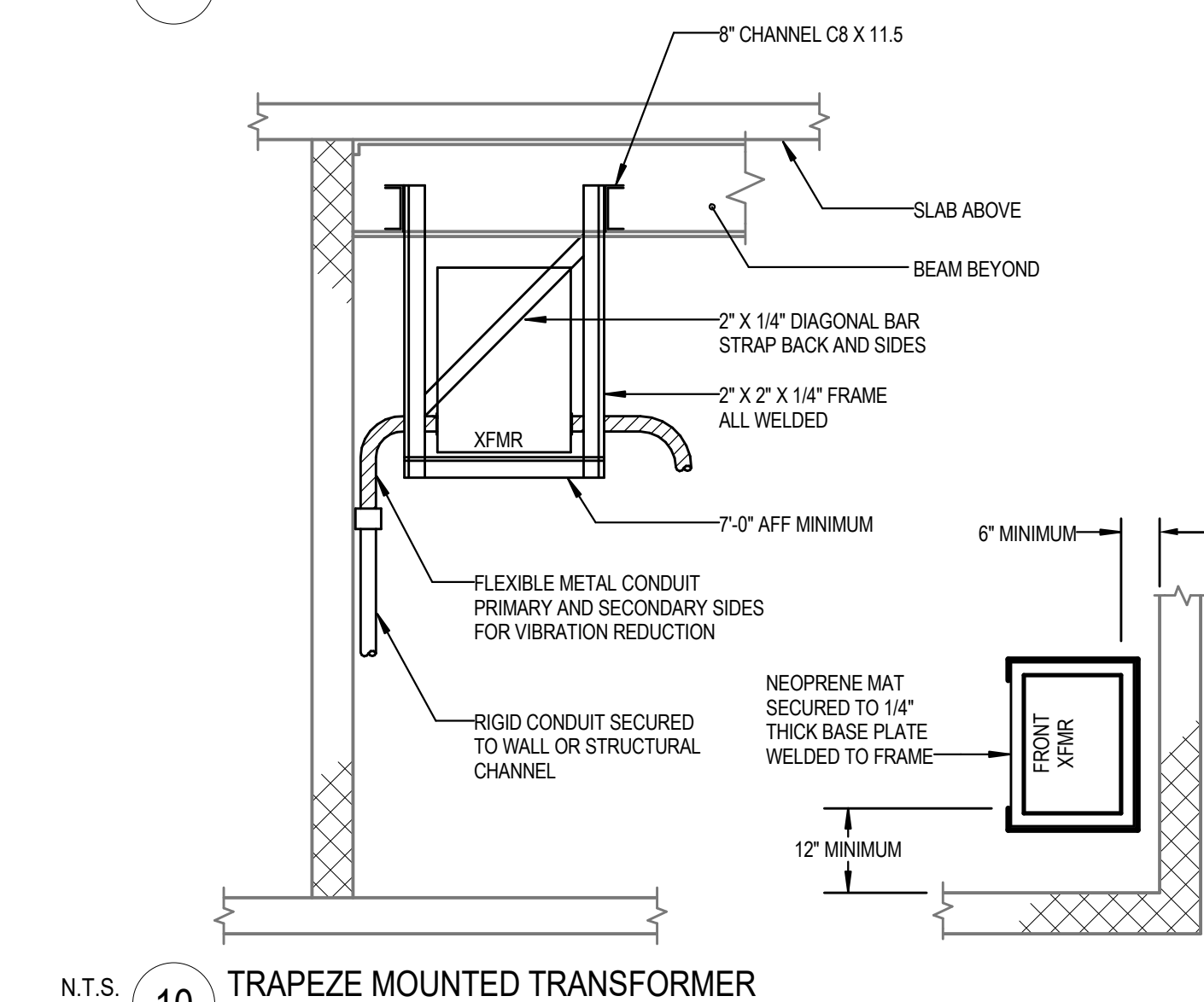
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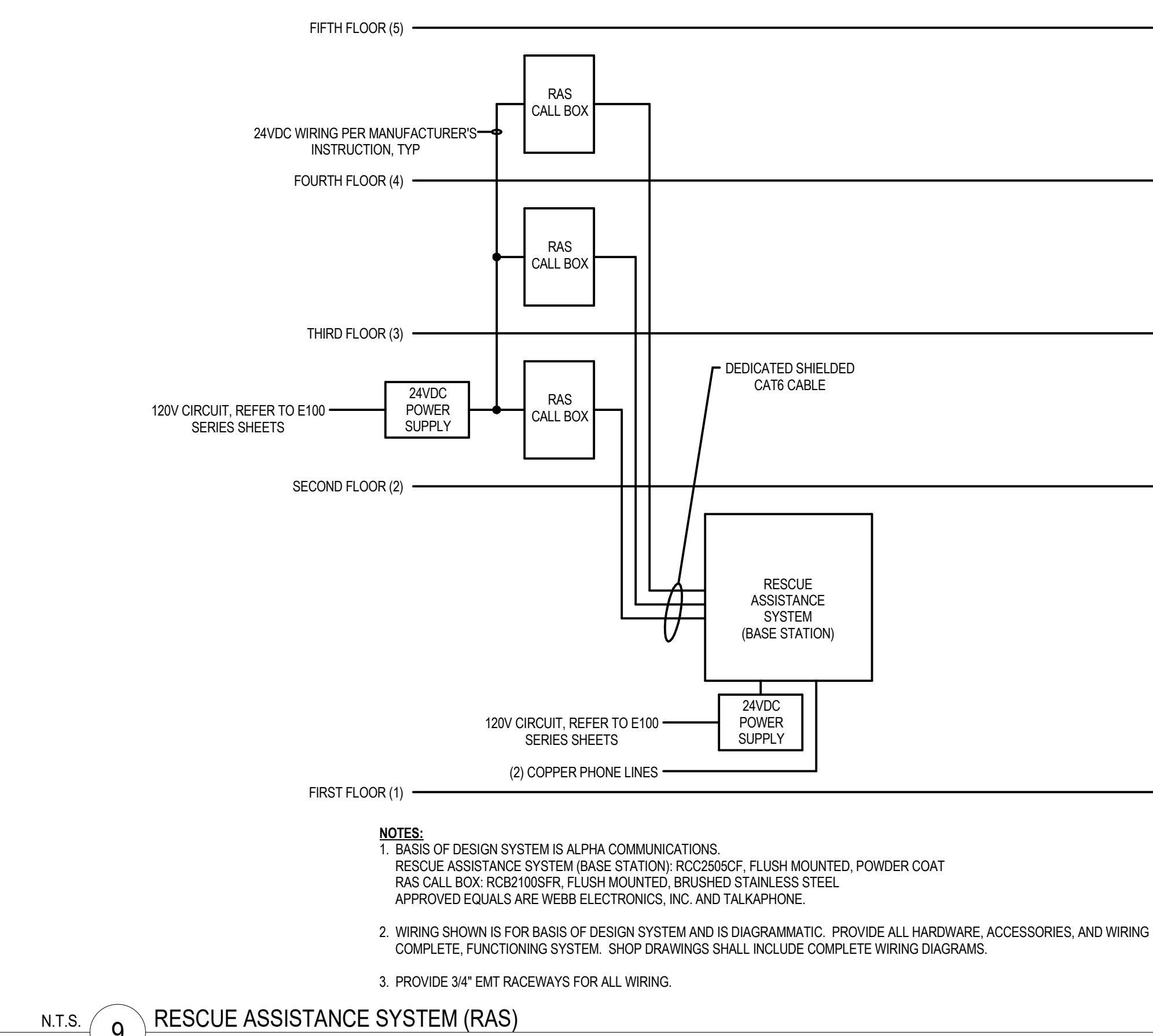
N.T.S. 12 SWITCHBOARD ELEVATIONS



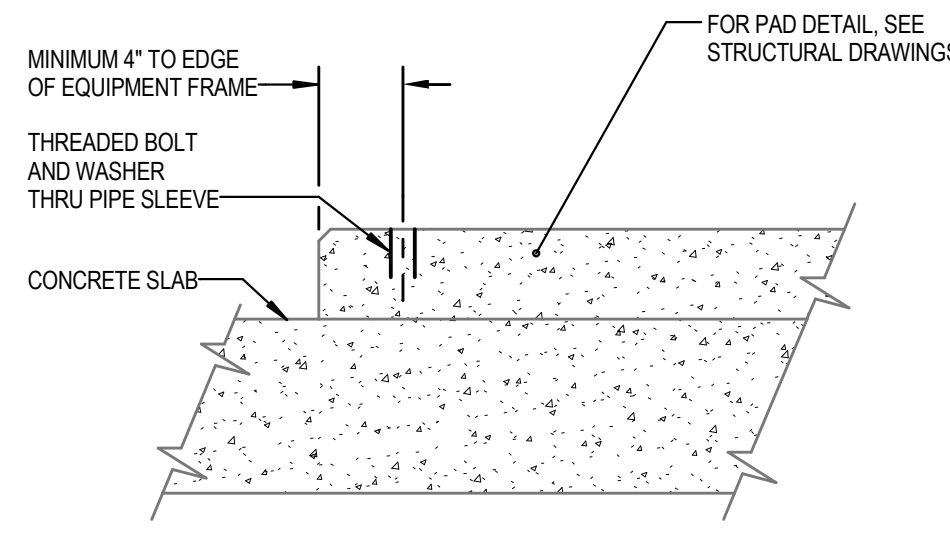
N.T.S. 11 TYPICAL VFD - DISCONNECT WIRING DIAGRAM



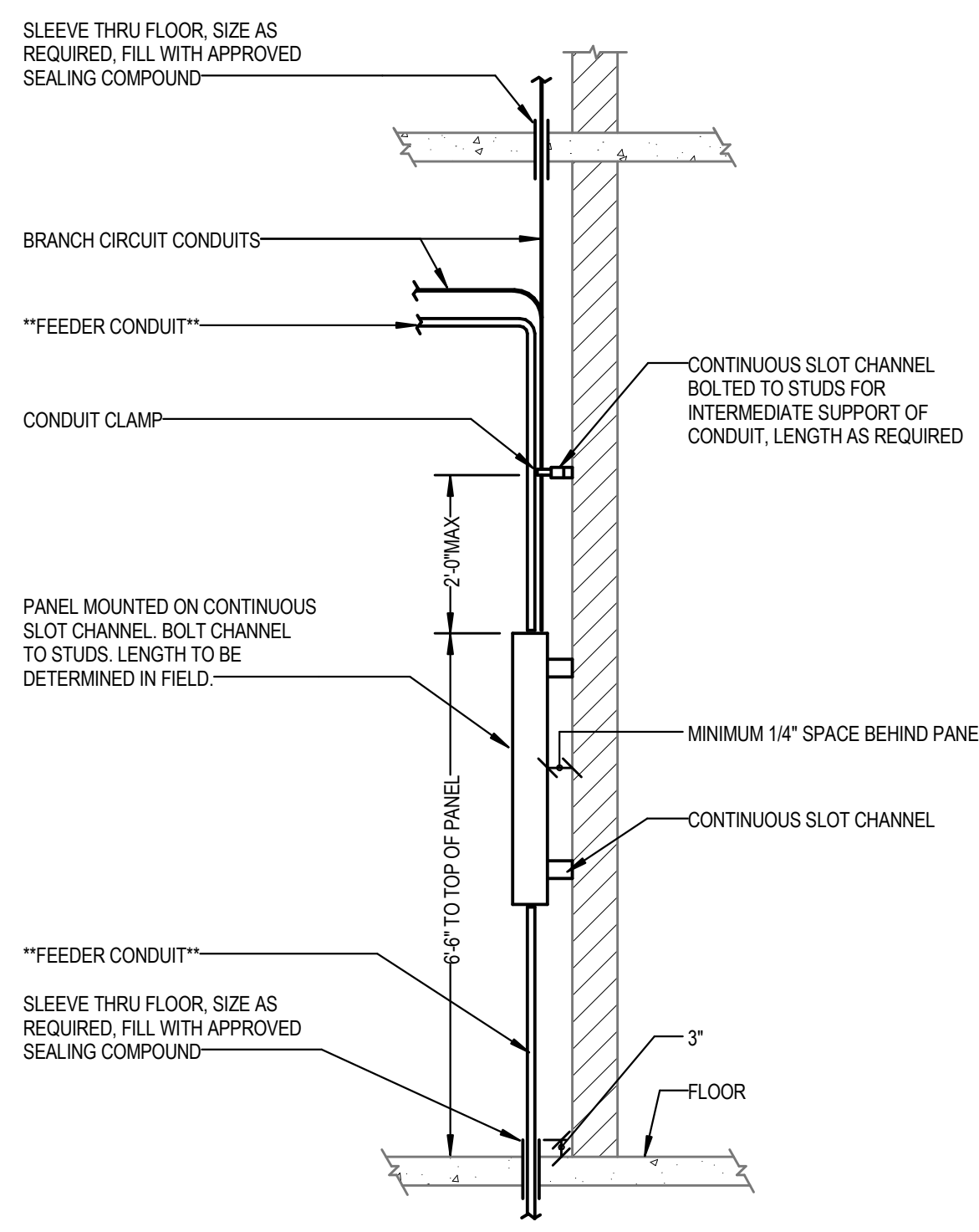
N.T.S. 10 TRAPEZE MOUNTED TRANSFORMER



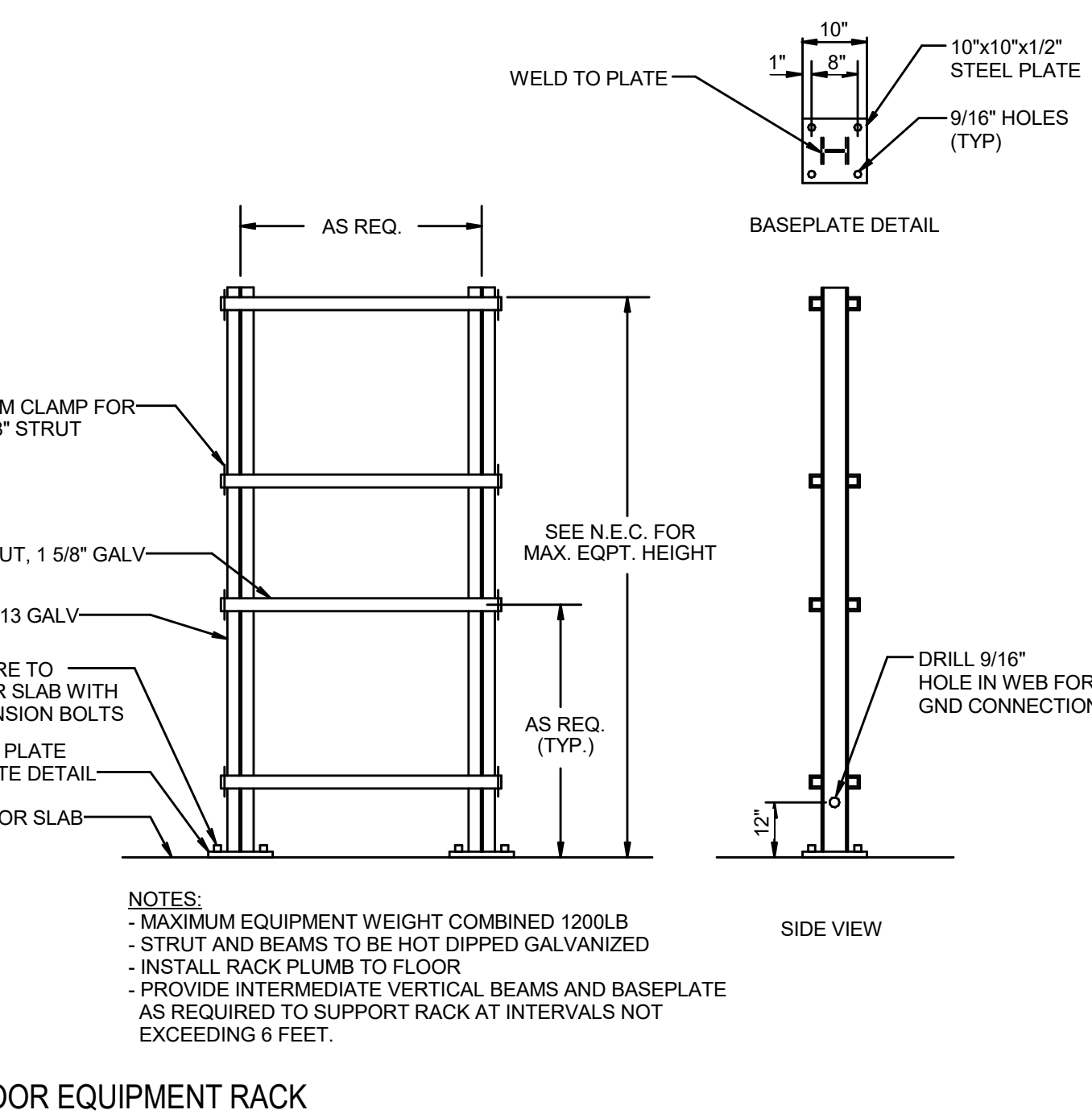
N.T.S. 9 RESCUE ASSISTANCE SYSTEM (RAS)



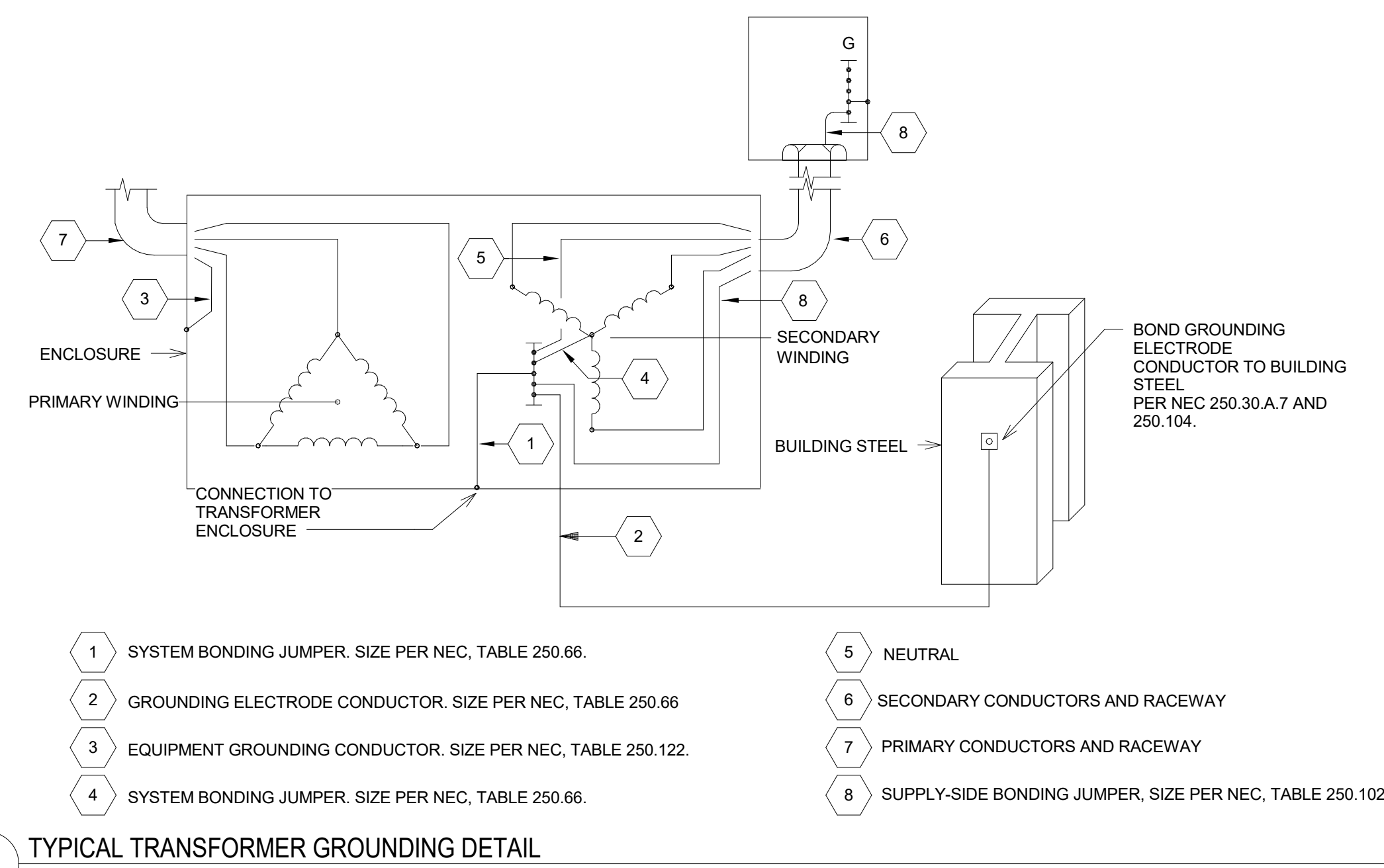
N.T.S. 8 HOUSEKEEPING PAD (NEW SLAB)



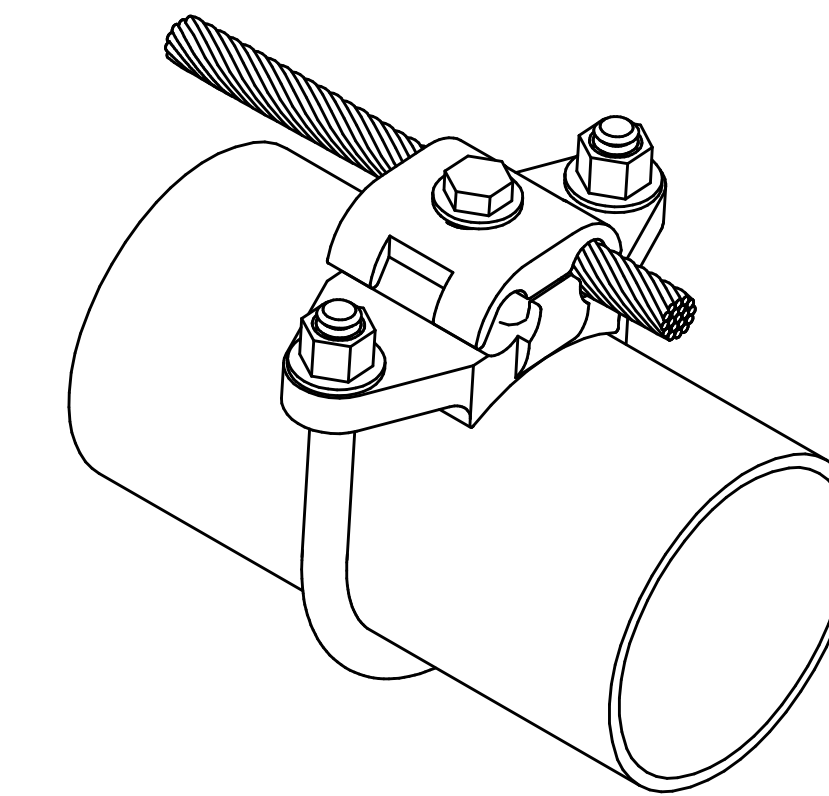
N.T.S. 7 TYPICAL PANELBOARD MOUNTING IN ELECTRICAL CLOSETS



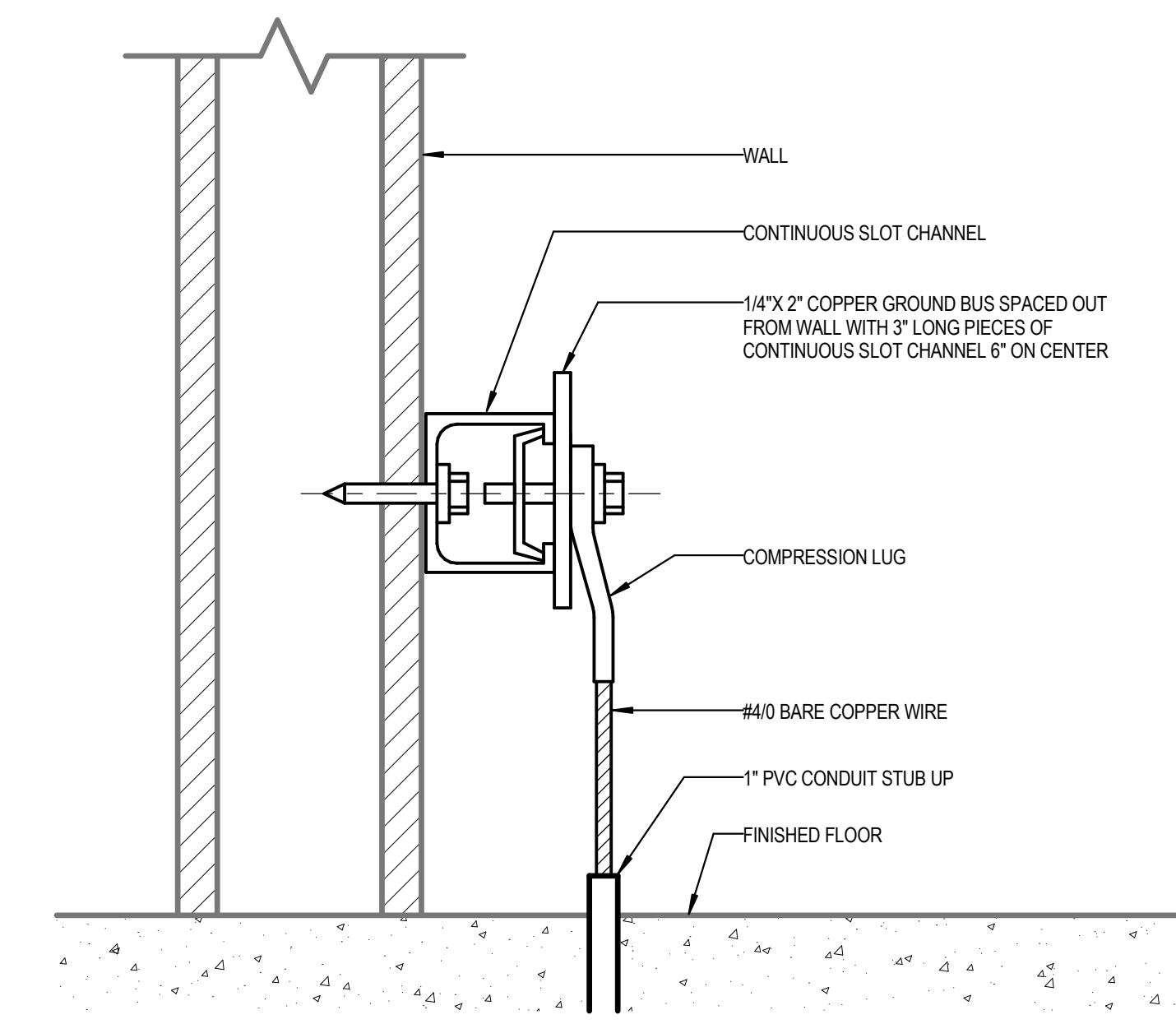
N.T.S. 6 INDOOR EQUIPMENT RACK



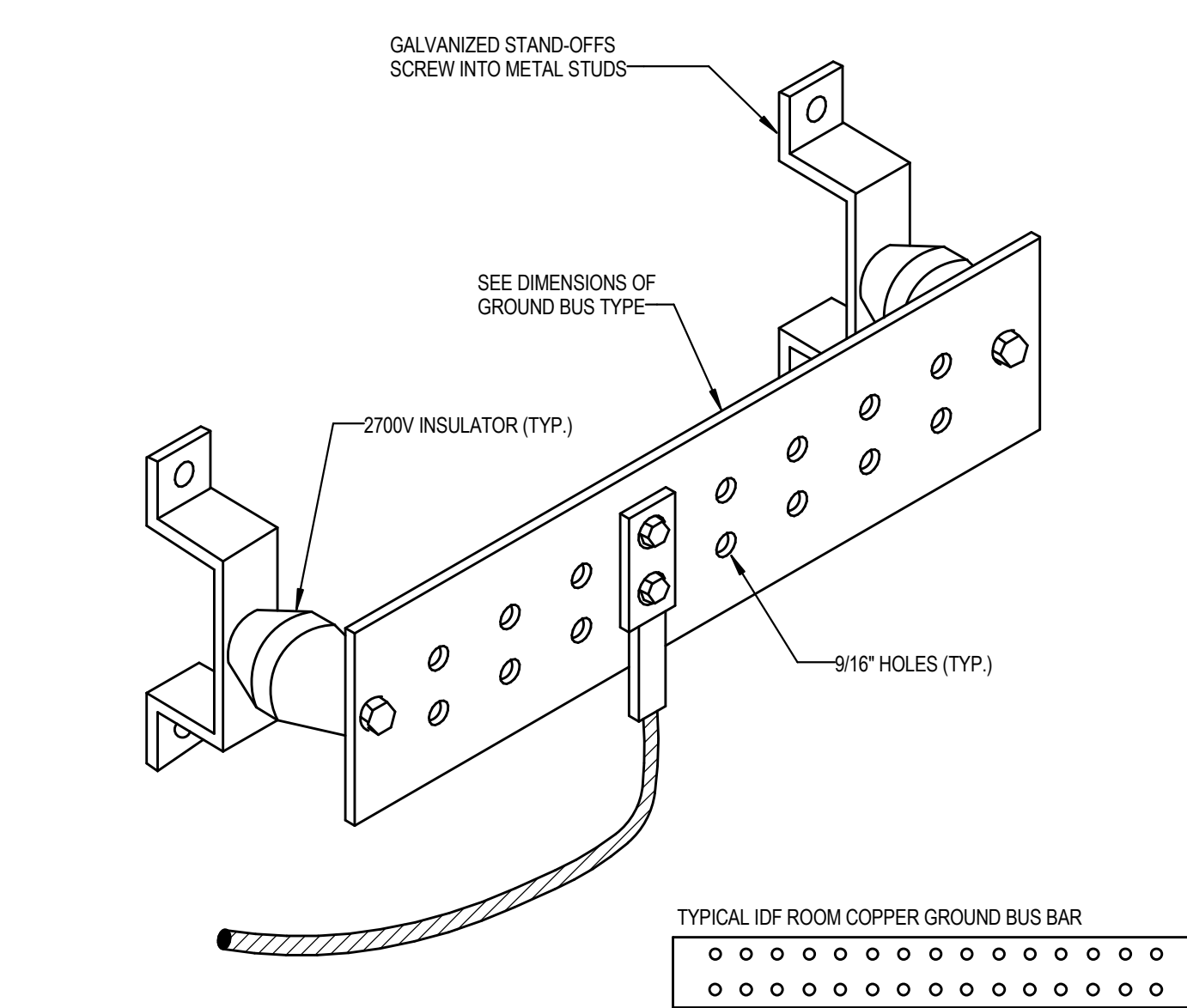
N.T.S. 5 TYPICAL TRANSFORMER GROUNDING DETAIL



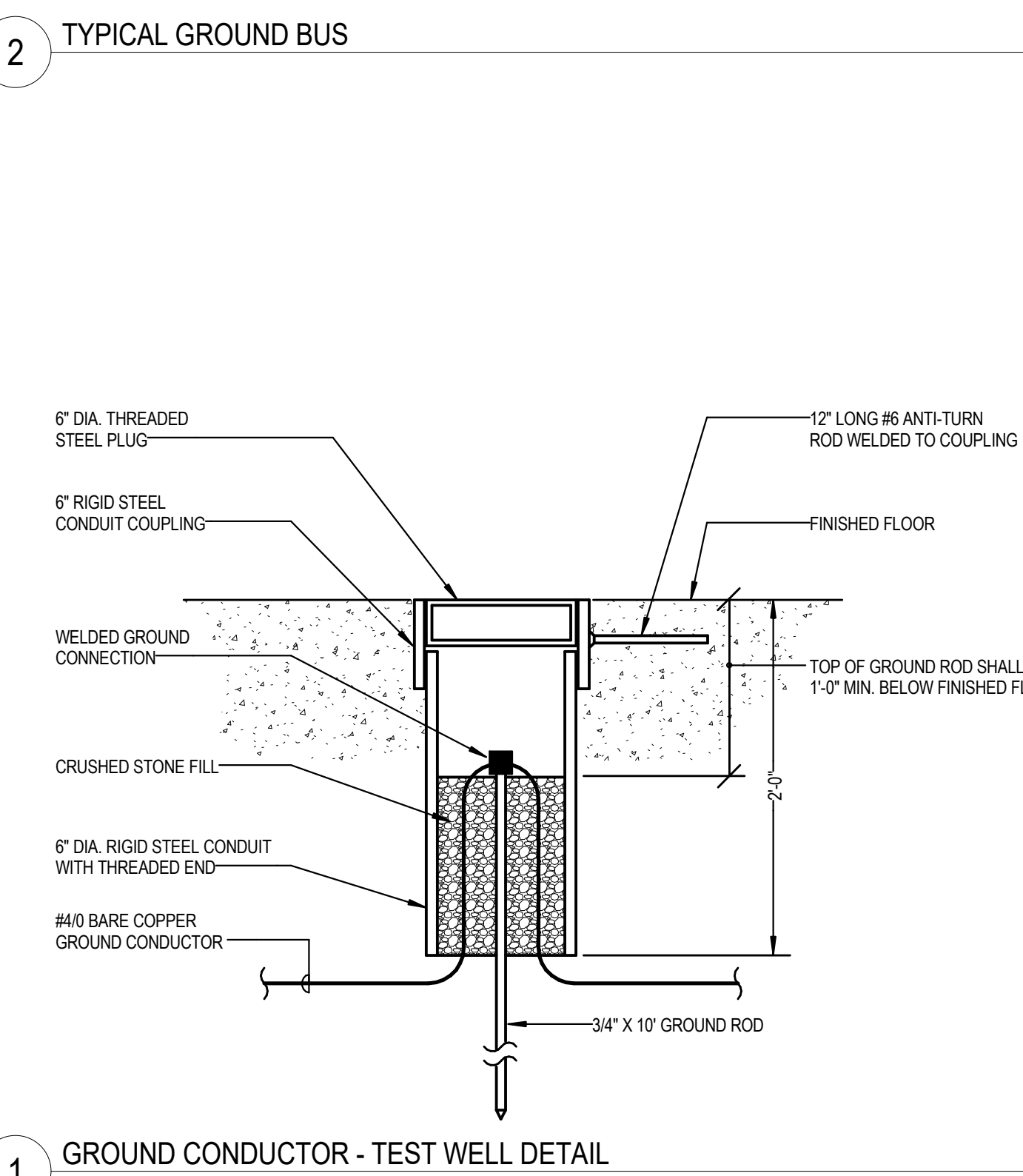
N.T.S. 4 U-BOLT CLAMP GROUNDING DETAIL



N.T.S. 3 G-09 TYPICAL GROUND BUS MOUNTING DETAIL

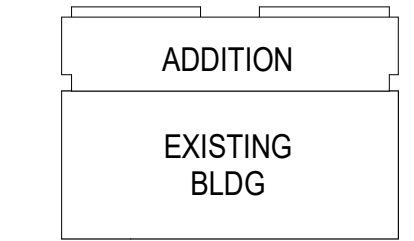


N.T.S. 2 TYPICAL GROUND BUS



N.T.S. 1 GROUND CONDUCTOR - TEST WELL DETAIL

KEYPLAN



SCALE:

CONDITION OF USE

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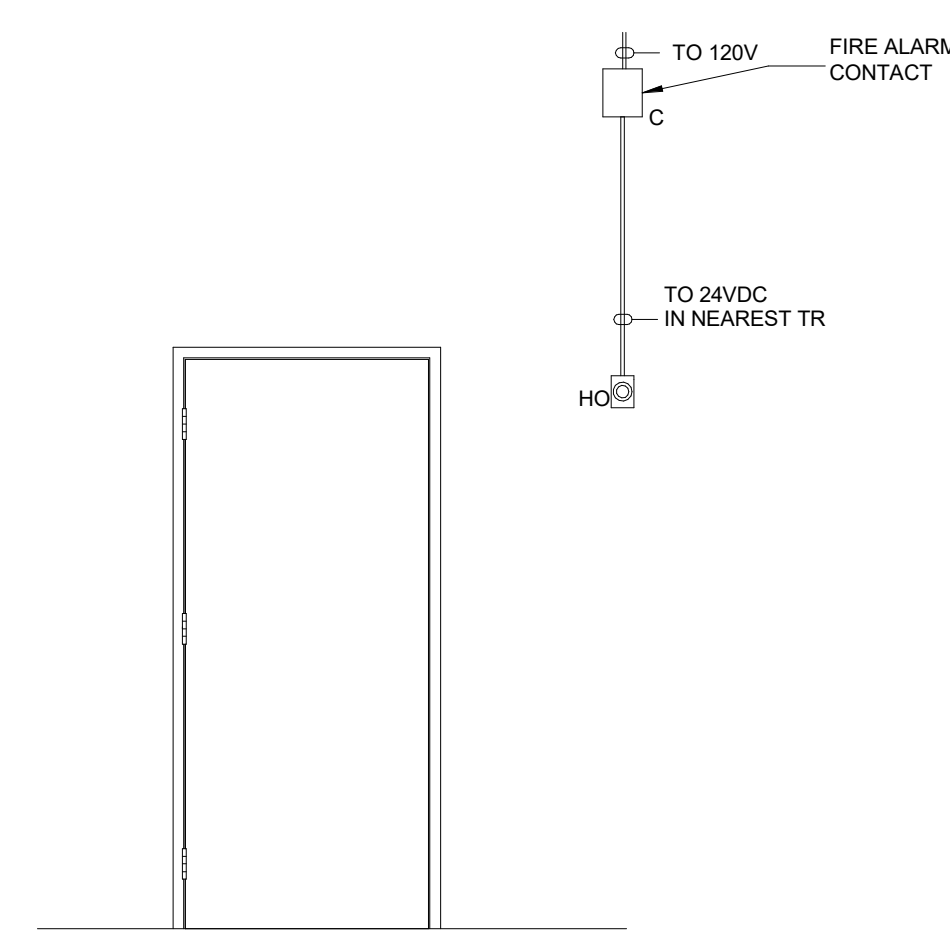
07/05/18 ISSUE 5
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PROJECT: 15085.11
SCALE: As indicated
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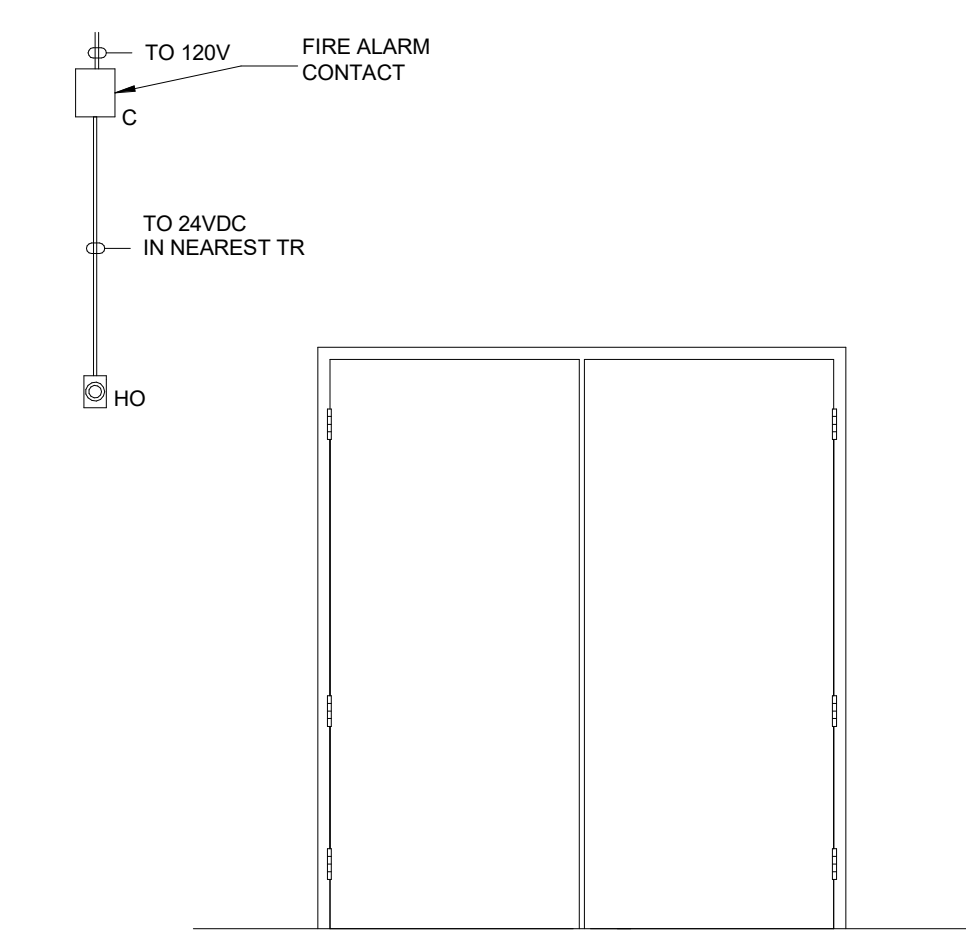
ELECTRICAL DETAILS

NUMBER

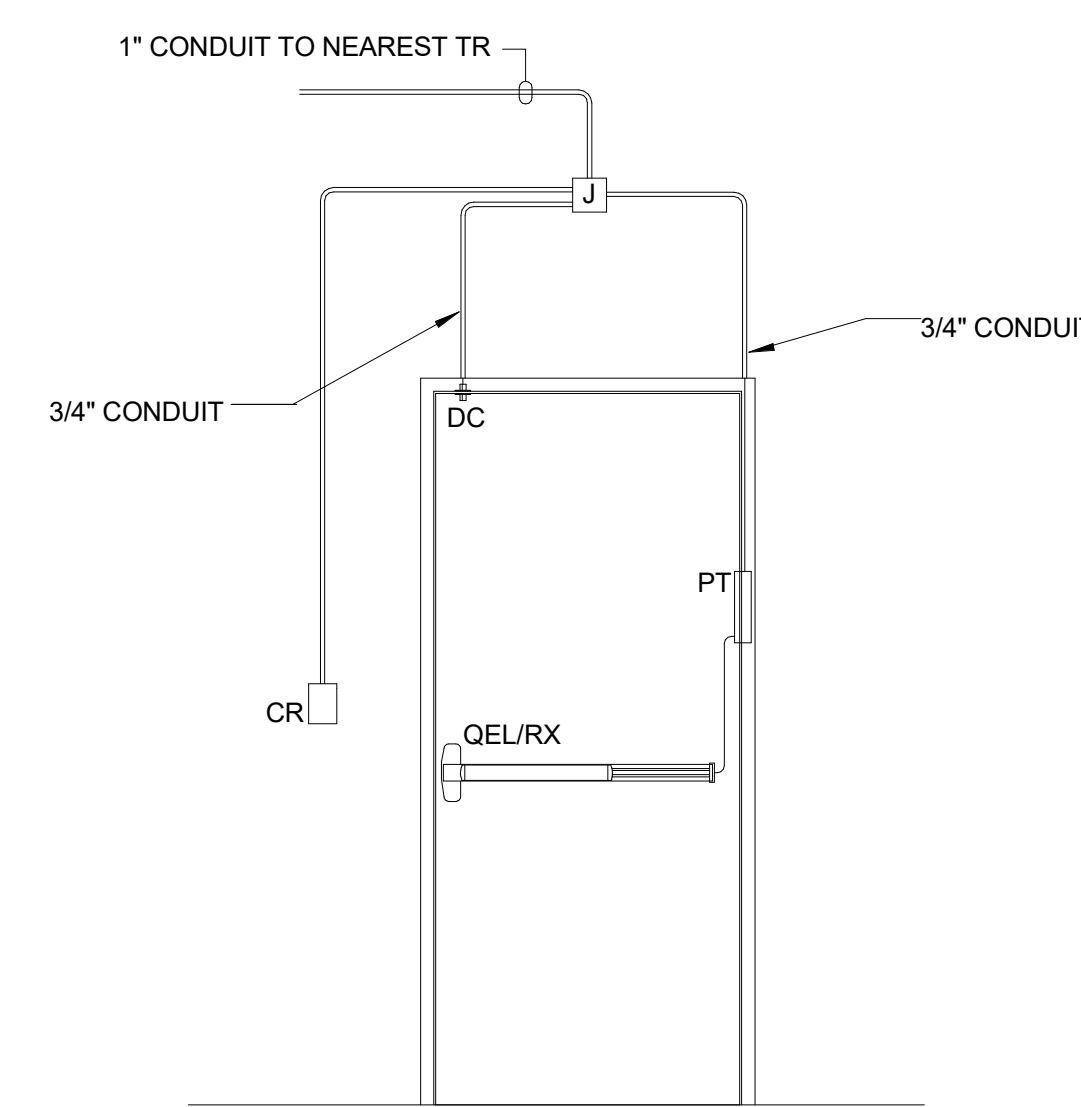
E501



N.T.S. 12 DOOR DETAILS HOLD OPEN SIGLE LEAF

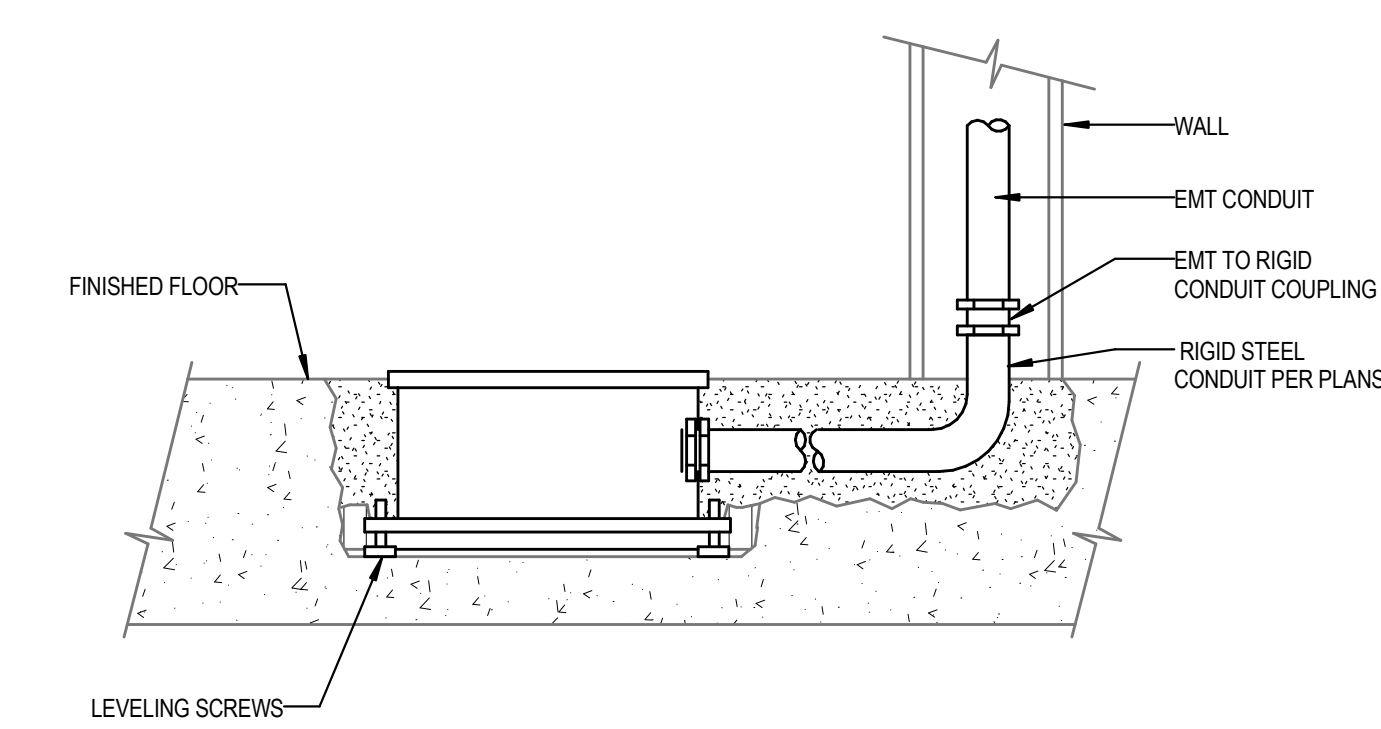


N.T.S. 11 DOOR DETAIL HOLD OPEN DOUBLE LEAF

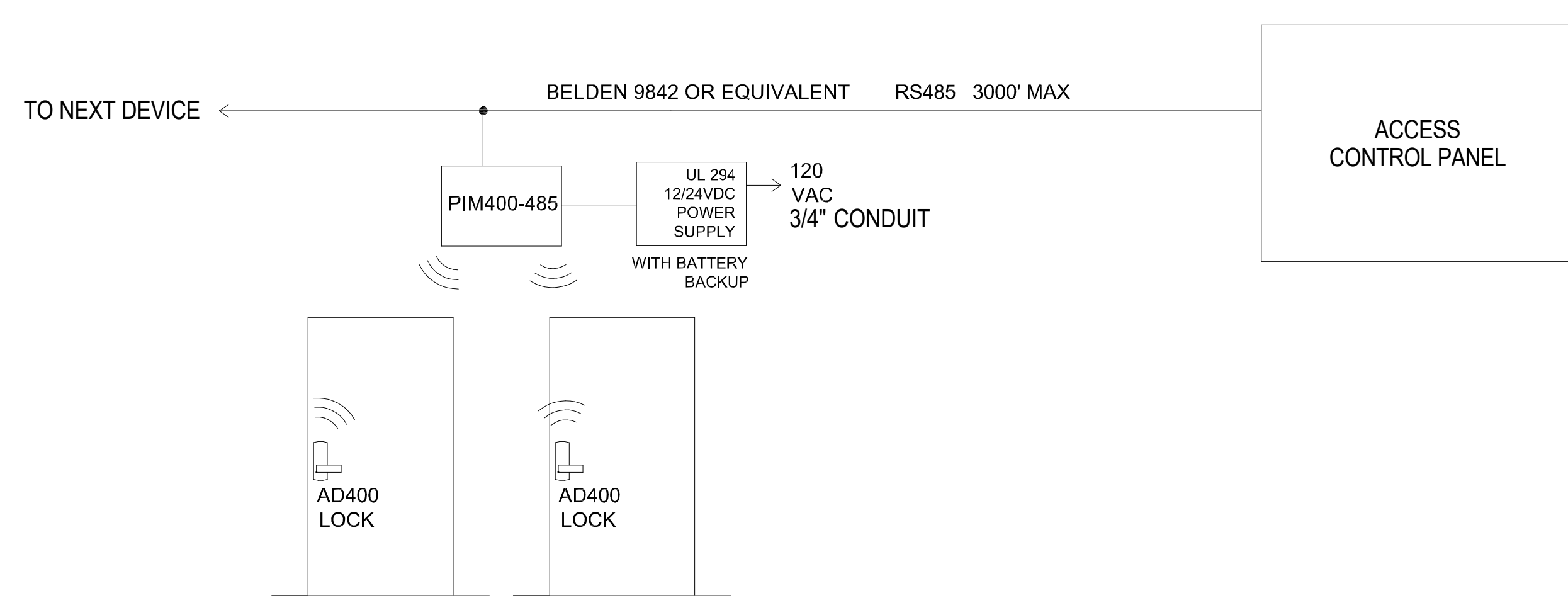


EXTERIOR SINGLE DOOR SECURED BY FAIL SECURE ELECTRIC LATCH.
WHEN THE DOOR IS LOCKED, A VALID CARD PRESENTED AT THE CARD READER WILL UNLOCK THE DOOR ALLOWING ENTRY. FORCE OR PROP OPEN WILL SEND ALARM TO SECURITY OFFICE.
EXIT IS ALWAYS ALLOWED VIA INSIDE EXIT DEVICE. SIGNAL SWITCH IN LOCKSET WILL SHUNT CONTACT ON EGRESS. DOOR WILL REMAIN LOCKED ON POWER LOSS.
24VDC LOCK POWER BY ACCESS CONTROL VENDOR.

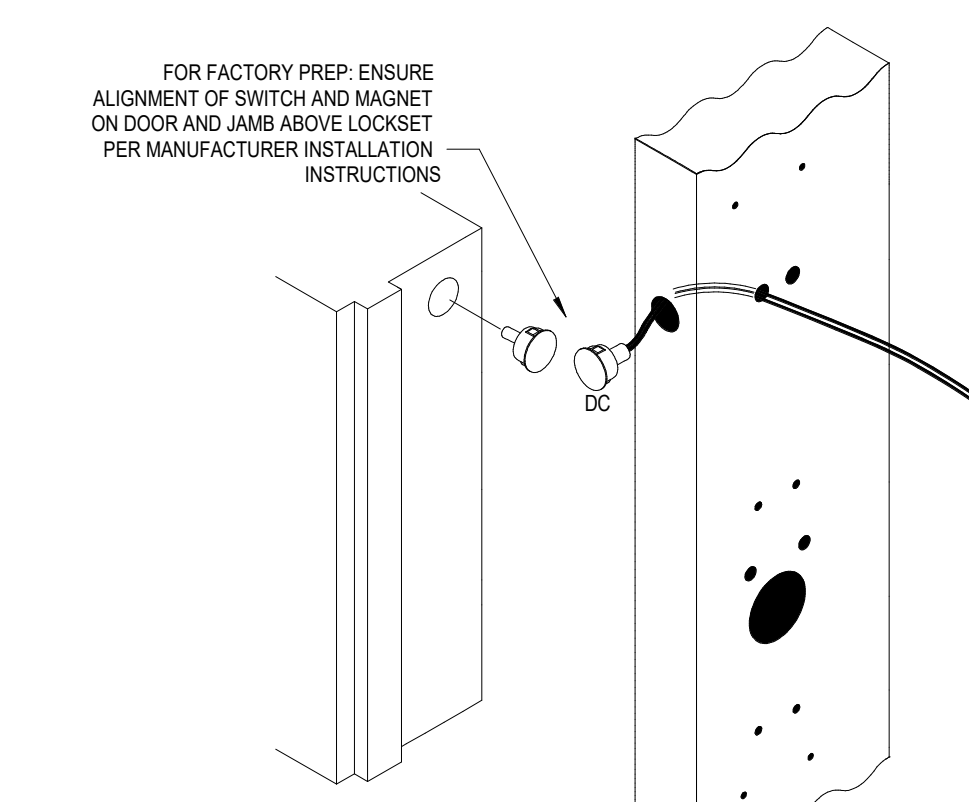
N.T.S. 10 DOOR DETAIL - QEL 98



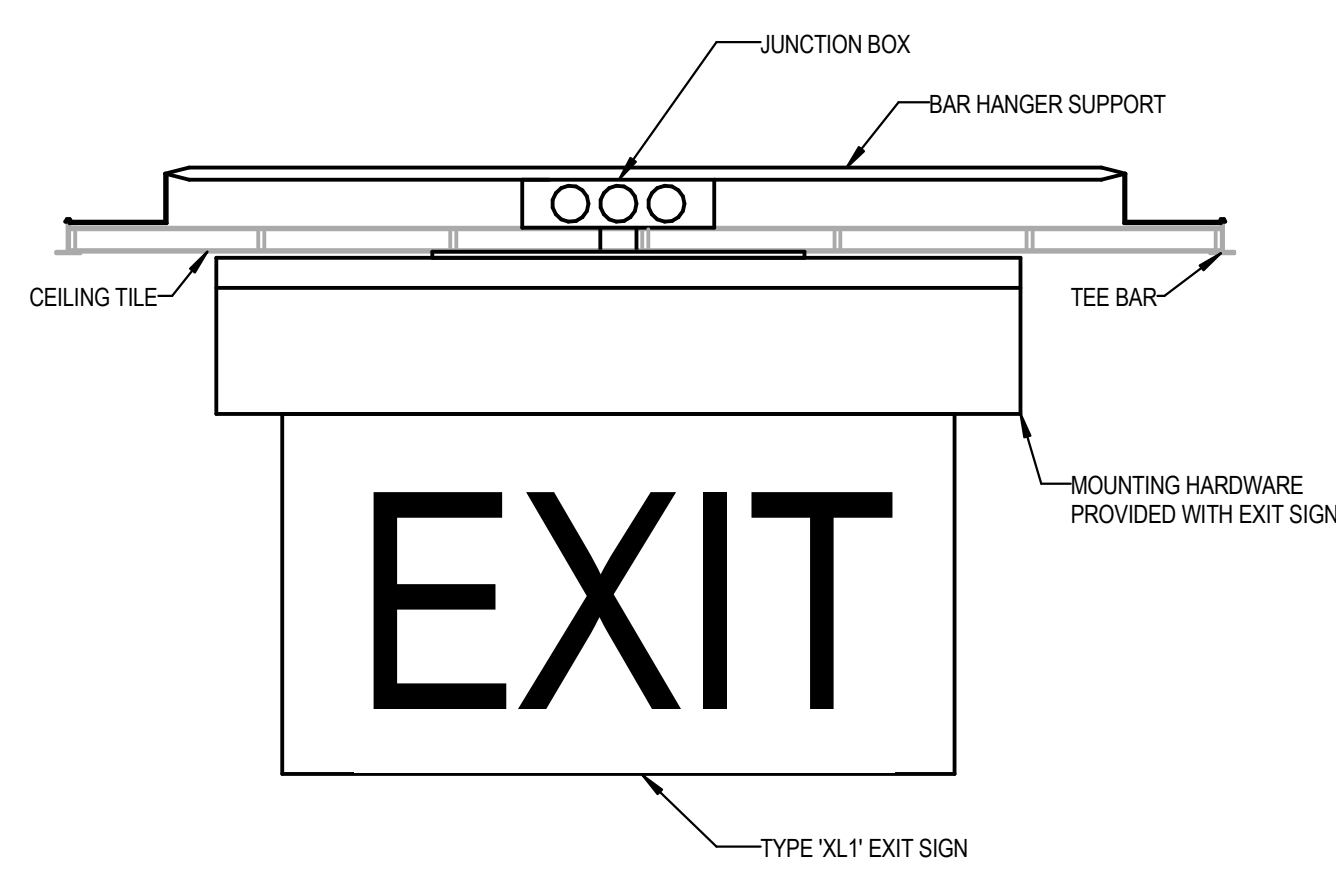
N.T.S. 3 FLUSH FLOOR BOX FOR POWER AND COMMUNICATION (TYP.)



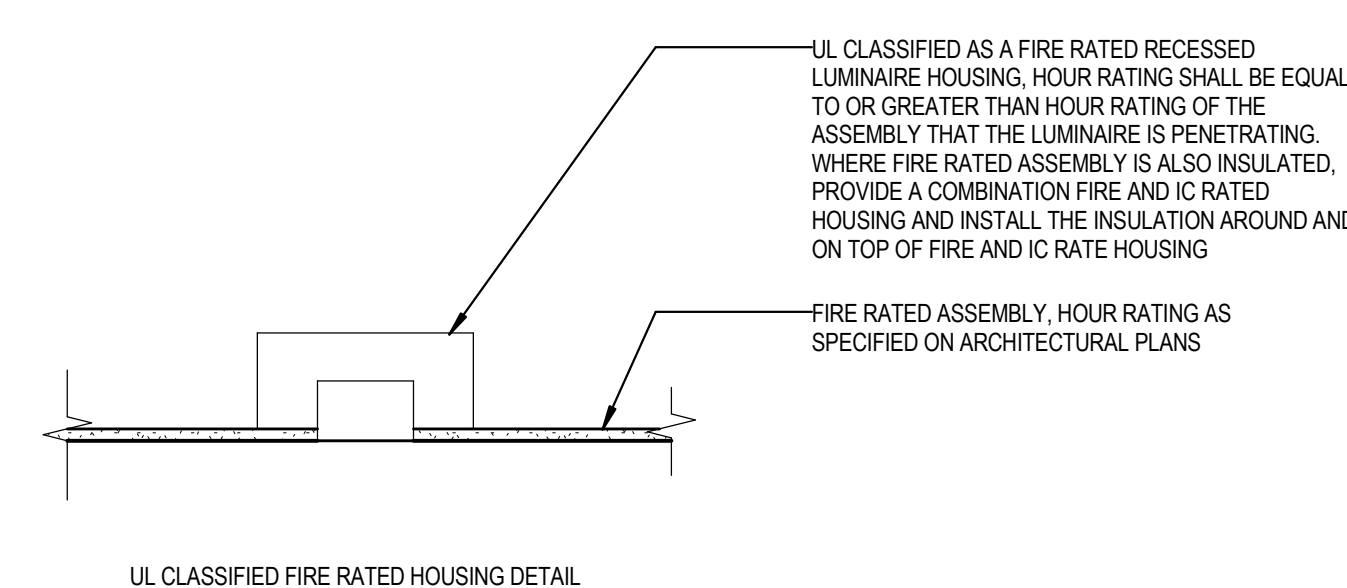
N.T.S. 9 DOOR DETAIL - AD400 SYSTEM DIAGRAM



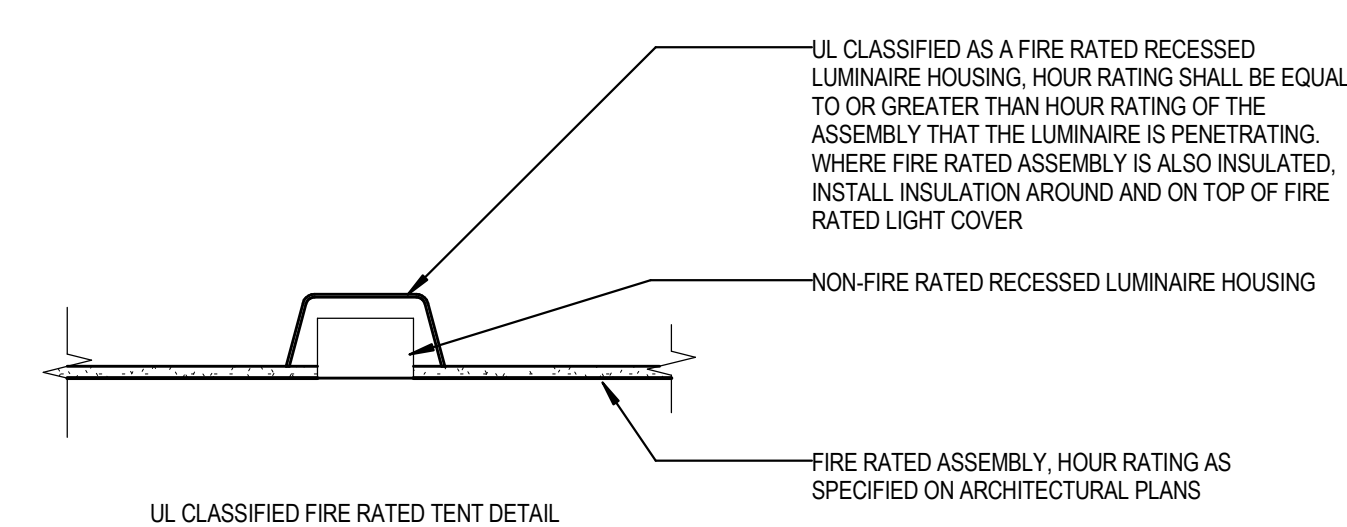
N.T.S. 8 DOOR DETAIL - AD400 DOOR CONTACT



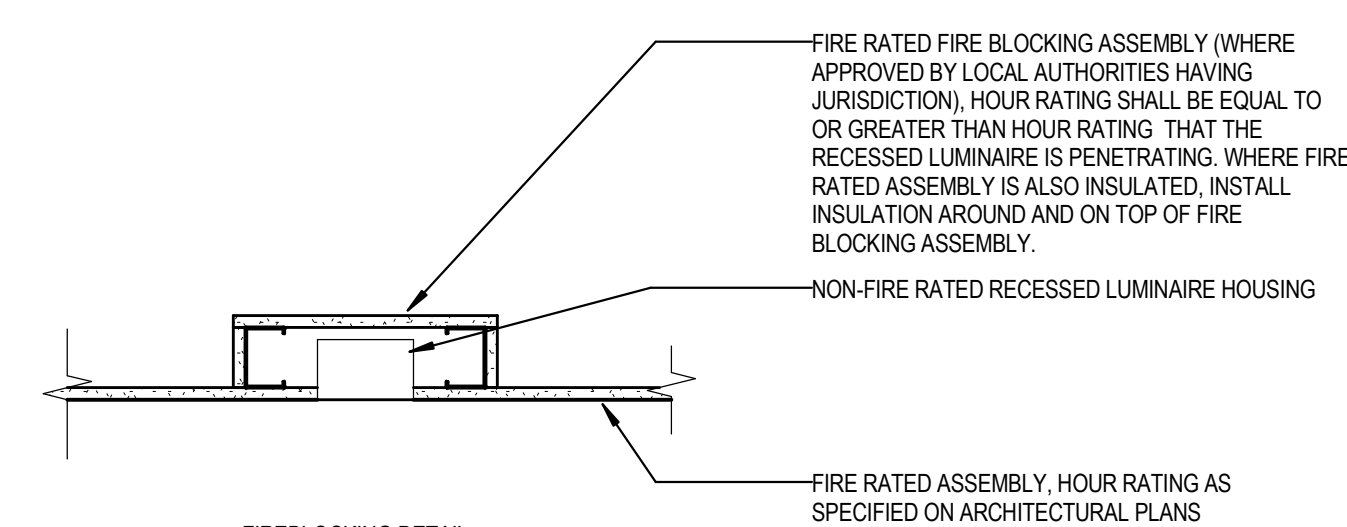
N.T.S. 7 OPEN CELL SYSTEM EXIT SIGN MOUNTING



UL CLASSIFIED FIRE RATED HOUSING DETAIL

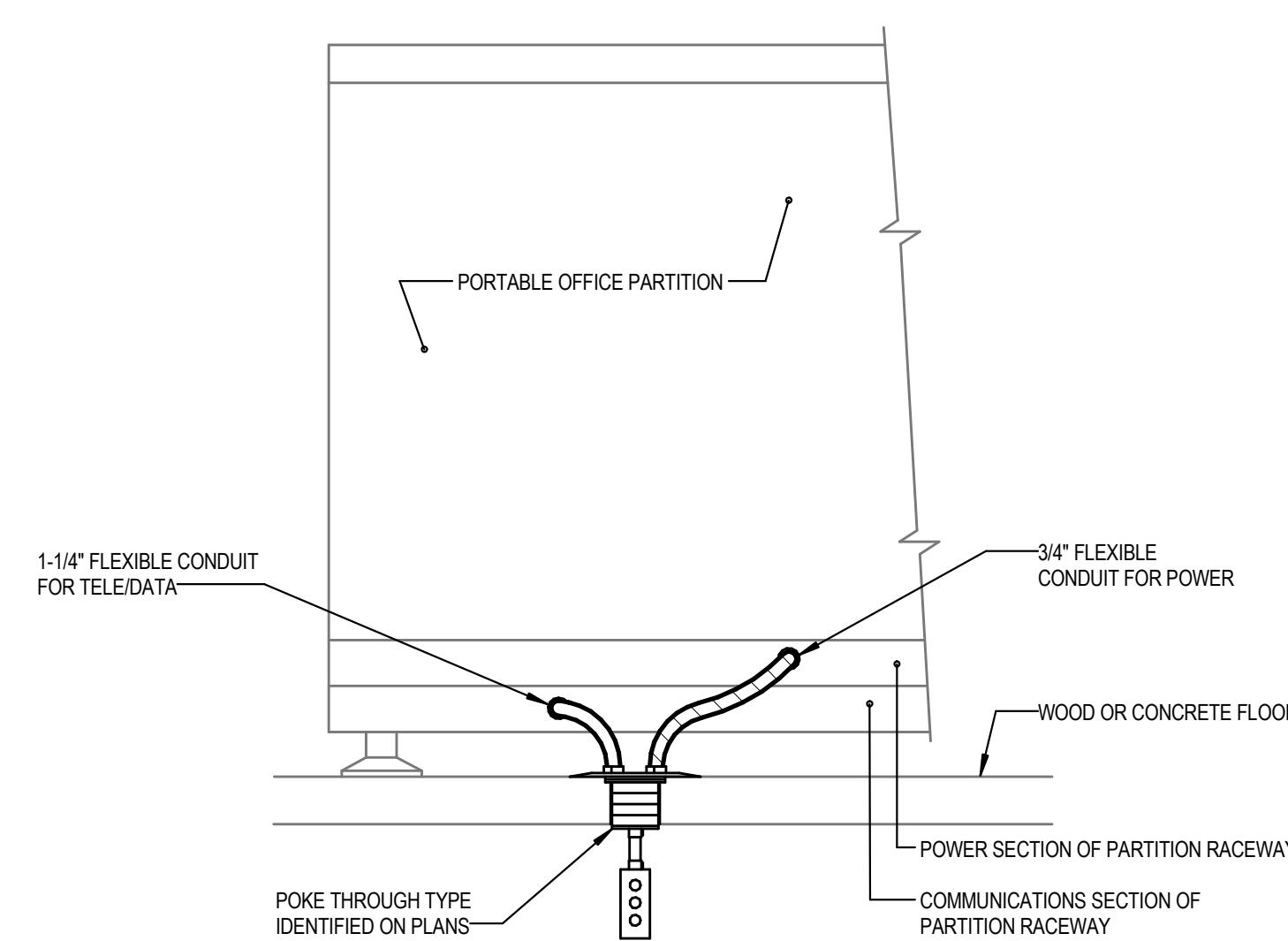


UL CLASSIFIED FIRE RATED TENT DETAIL

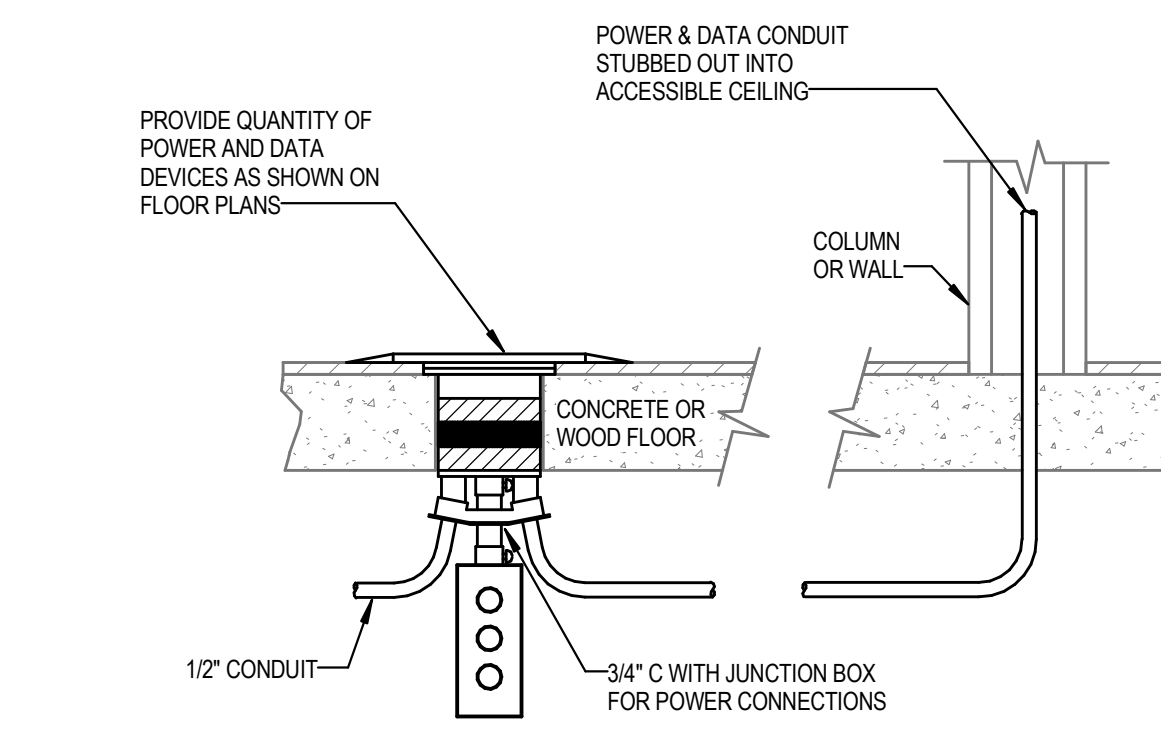


N.T.S. 6 FIRE RATED CEILING LIGHT DETAILS

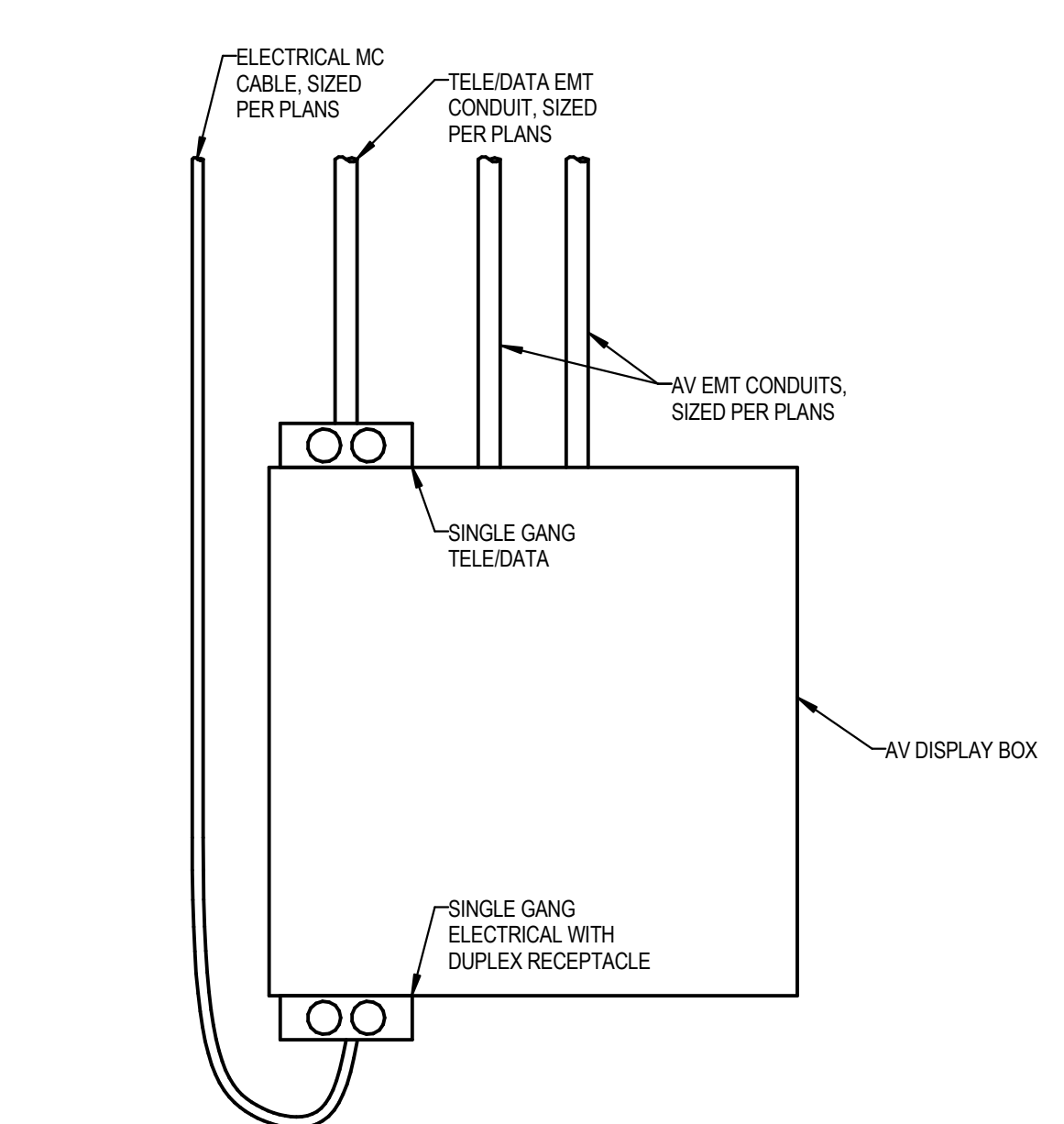
NOTE:
RECESSED LUMINAIRES IN FIRE-RESISTANCE RATED HORIZONTAL ASSEMBLIES ARE MEMBRANE PENETRATIONS AND MUST COMPLY WITH 713A.1.1.1 OR 713A.1.1.2 OF THE 2009 IBC CODE. RECESSED LUMINAIRES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED.



N.T.S. 5 TYPICAL CONNECTIONS TO PORTABLE PARTITIONS FROM FLOOR



N.T.S. 2 TELE/DATA AND POWER TABLE FEED POKE THRU (TYP.)



N.T.S. 1 D1/D2 AV DISPLAY BOX

PANELBOARD NOTES:
 FA - RED LOCK ON CLAMP
 GP1 - GFI BREAKER 30A
 GP2 - GFI BREAKER 30A
 LC - LOCK ON CLAMP
 LK - LOCK OFF CLAMP

Branch Panel: TD-1														
Location: TELEDATA 1TC1			Mounting: Surface			Voltage: 120/208 Wye			Bus Rating: 100 A			Aux Gutter: Y		
Supply From: TX-1D			Sections: 1			Phases: 3			MLO/NCB MCB			Ground Bus: Y		
Enclosure: TYPE 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 60 A			Neutral Rating: 100%		
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 Recept TELEDATA 1TC1	20	1	Recept		540	0				1	20	Spare		
3 Recept TELEDATA 1TC1	20	1	Recept			300	0			1	20	Spare		
5 Recept TELEDATA 1TC1	20	1	Recept				360	3600		1	20	Recept TELEDATA 1TC1		
7 HOLD OPEN DOOR POWER SUPPLY TELEDATA 1TC1	20	1	Equip		500	0				1	20	Spare		
9 Spare	20	1	--			0	0			2	20	Spare		
11 Spare	20	2	--			0	0			--	--	10		
13 --	--	--	--		0	0				1	20	Spare		
15 Spare	20	2	--			0	0			1	20	Spare		
17 --	--	--	--				0	0		1	20	Spare		
19 Spare	20	1	--		0	0				1	20	Spare		
21 Spare	20	1	--			0	0			1	20	Spare		
23 Spare	20	1	--				0	0		1	20	Spare		
25 Spare	20	1	--		0	0				1	20	Spare		
27 Spare	20	1	--			0	0			1	20	Spare		
29 Spare	20	1	--				0	0		1	20	Spare		
31 Spare	20	1	--		0	0				1	20	Spare		
33 Spare	20	1	--			0	0			1	20	Spare		
35 Spare	20	1	--				0	0		1	20	Spare		
37 Spare	20	1	--		0	0				1	20	Spare		
39 Spare	20	1	--			0	0			1	20	Spare		
41 Spare	20	1	--				0	0		1	20	Spare		
Total Load:					1040 VA	360 VA	3960 VA							
Total Amps:					10 A	3 A	34 A							

Branch Panel: RP-1-L1														
Location: MATERIALS LAB 120			Mounting: Recession			Voltage: 120/208 Wye			Bus Rating: 100 A			Aux Gutter: N		
Supply From: RP-1			Sections: 1			Phases: 3			MLO/NCB MCB			Ground Bus: Y		
Enclosure: NEMA 4X			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 100 A			Neutral Rating: 100%		
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 (2)LE-CVE-0024 - SUPPORT 130A	20	1	Recept		1152	540				1	20	RECEPT - MATERIALS LAB 120 (EAST)		
3 (2)LE-CVE-0024 - SUPPORT 130A	20	1	Recept			1152	540			1	20	RECEPT - MATERIALS LAB 120 (SOUTH)		
5 LV-CVE-0050 - SUPPORT 130A	20	1	Recept				1200	1200		1	20	RECEPT - MATERIALS LAB 120 (NORTH)		
7 LE-CVE-0049 - SUPPORT 130A	20	1	Recept		816	1200				1	20	LE-CVE-0014 - MATERIALS LAB 120		
9 RECEPT TRAP PRIMER - SUPPORT 130A	20	1	Recept Equip			720	1500			1	20	LE-CVE-0005 - MATERIALS LAB 120		
11 Spare	20	1	--				0	1500		1	20	Spare		
13 Spare	20	1	--		0	1200				1	20	Spare		
15 Spare	20	1	--			0	1200			1	20	Spare		
17 Spare	20	1	--				0	540		1	20	Spare		
19 Spare	20	1	--		0	744				1	20	Spare		
21 Spare	20	1	--			0	744			1	20	Spare		
23 Spare	20	1	--				0	1500		1	20	Spare		
25 Spare	20	1	--		0	528				1	20	Spare		
27 Spare	20	1	--			0	0			1	20	Spare		
29 Spare	20	1	--				0	720		1	20	Spare		
31 Spare	20	1	--		0	720				1	20	Spare		
33 Spare	20	1	--			0	0			1	20	Spare		
35 Spare	20	1	--				0	0		1	20	Spare		
37 Spare	20	1	--		0	0				1	20	Spare		
39 Spare	20	1	--			0	0			1	20	Spare		
41 Spare	20	1	--				0	180	LK	Equip	1	20	VEHICLE TRAFFIC GATE - LPPRTD RD	
Total Load:					6900 VA	5856 VA	6900 VA							
Total Amps:					59 A	49 A	59 A							

Branch Panel: RP-1-L2														
Location: MATERIAL TESTING 180			Mounting: Recession			Voltage: 120/208 Wye			Bus Rating: 200 A			Aux Gutter: N		
Supply From: RP-1			Sections: 1			Phases: 3			MLO/NCB MCB			Ground Bus: Y		
Enclosure: NEMA 4X			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 200 A			Neutral Rating: 100%		
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 LE-CVE-0407-1 - MATERIAL TESTING 180	60	3	Equip		3699	4160				2	60	LE-CVE-0408 - MATERIAL TESTING 180		
3 --	--	--	--			3699	4160			2	--	4		
5 --	--	--	--				3699	1352		2	--	6		
7 LE-CVE-0420-2 - MATERIAL TESTING 180	20	3	Equip		2882	1352				--	--	8		
9 --	--	--	--			2882	360			1	20	LE-CVE-0420-7 - MATERIAL TESTING 180		
11 --	--	--	--				2882	360		1	20	LE-CVE-0420-8 - MATERIAL TESTING 180		
13 LE-CVE-0068 - MATERIAL TESTING 180	20	1	Equip		624	360				1	20	CORD REEL RECEPT - MATERIAL TESTING 180		
15 CORD REEL RECEPT - MATERIAL TESTING 180	20	1	Equip			360	1584			1	20	LE-CVE-0007 - MATERIAL TESTING 180		
17 LE-CVE-0420-1 - MATERIAL TESTING 180	25	1	Recept				1400	1560		1	20	LE-CVE-0004 - MATERIAL TESTING 180		
19 Spare	20	1	--			0	180			1	20	Spare		
21 RECEPT - MATERIAL TESTING 180 (SOUTH)	20	1	Recept			540	0			1	20	Spare		
23 TORBION - MATERIAL TESTING 180	20	1	Equip				1200	600		1	20	RECEPT - MATERIALS TESTING 180		
25 Spare	20	1	--		0	0				1	20	Spare		
27 Spare	20	1	--			0	0			1	20	Spare		
29 Spare	20	1	--				0	0		1	20	Spare		
31 Spare	20	1	--		0	0				1	20	Spare		
33 Spare	20	1	--			0	0			1	20	Spare		
35 Spare	20	1	--				0	0		1	20	Spare		
37 Spare	20	1	--		0	0				1	20	Spare		
39 Spare	20	1	--			0	0			1	20	Spare		
41 Spare	20	1	--				0	0		1	20	Spare		
Total Load:					13257 VA	13585 VA	13353 VA							
Total Amps:					110 A	113 A	111 A							

Branch Panel: LP-1														
Location: ELEC 1E3			Mounting: Surface			Voltage: 480/277 Wye			Bus Rating: 100 A			Aux Gutter: N		
Supply From: MCB-1B			Sections: 1			Phases: 3			MLO/NCB MCB			Ground Bus: Y		
Enclosure: TYPE 1			ISC Rating: 14 KAIC			Wires: 4			MCB Rating: 100 A			Neutral Rating: 100%		
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 1st Floor - Corridors	20	1	Light		822	2029				1	20	1st Floor - Rooms North		
3 1st Floor - Rooms South	20	1	Light			2760	1267			1	20	2nd Floor - Corridors		
5 2nd Floor - Rooms	20	1	Light				3669	90		1	20	PRIM Lights		
7 Spare	20	1	--		0	0				1	20	Spare		
9 Spare	20	1	--			0	0			1	20	Spare		
11 Spare	20	1	--				0	0		1	20	Spare		
13 Spare	20	1	--		0	0				1	20	Spare		
15 Spare	20	1	--				0	0		1	20	Spare		
17 Spare	20	1	--				0	0		1	20	Spare		
19 Spare	20	1	--		0	0				1	20	Spare		
21 Spare	20	1	--				0	0		1	20	Spare		
23 Spare	20	1	--				0	0		1	20	Spare		
25 Spare	20	1	--		0	0				1	20	Spare		
27 Spare	20	1	--			0	0			1	20	Spare		
29 Spare	20	1	--				0	0		1	20	Spare		
31 Spare	20	1	--		0	0				1	20	Spare		
33 Spare	20	1	--			0	0			1	20	Spare		
35 Spare	20	1	--				0	0		1	20	Spare		
37 Spare	20	1	--		0	0				1	20	Spare		
39 Spare	20	1	--			0	0			1	20	Spare		
41 Spare	20	1	--				0	0		1	20	Spare		
Total Load:					2851 VA	4027 VA	3759 VA							
Total Amps:					10 A	15 A	14 A							

Branch Panel: RP-1-EOS														
Location: ELEC 1E3			Mounting: Surface			Voltage: 120/208 Wye			Bus Rating: 100 A			Aux Gutter: N		
Supply From: TRP-1-EOS			Sections: 1			Phases: 3			MLO/NCB MCB			Ground Bus: Y		
Enclosure: Type 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 100 A			Neutral Rating: 100%		
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 1ST FLOOR BAS PANEL - ELEC 1E3	20	1	Equip		FA	500	500			1	20	ACCESS CONTROL PANEL TELEDATA 1TC1		
3 1ST FLOOR LCP-1 - ELEC 1E3	20	1	Equip		FA		500	900		1	20	1ST FLOOR RECEPTS - ELEC 1E1, UPS ROOM 1E2		
5 1ST FLOOR FACP - CORRIDOR 1C2	20	1	Equip		FA			500	168			1ST FLOOR LH-1M2 - MECHANICAL 1M2		
7 RESCUE ASSISTANCE SYSTEM (BASE STATION) - CORRIDOR 1C2	20	1	Equip		FA	100	500			1	20	ACCESS CONTROL PANEL 1TC1		
9 2ND FLOOR NAC - ELEC 2E1	20	1	Equip		FA		500	0		--	--	10		
11 2ND FLOOR BAS PANEL - ELEC 2E1	20	1	Equip					500	1008			HVAC 1		
13 3RD FLOOR NAC - ELEC 3E1	20	1	Equip			500	336			1	15	UH-120-10 - MATERIALS LAB 120		
15 3RD FLOOR LCP-3 - ELEC 3E1	20	1	Equip				500	0		--	--	16		
17 3RD FLOOR BAS PANEL - ELEC 3E1	20	1	Equip					500	0	--	--	18		
19 4TH FLOOR NAC - ELEC 4E1	20	1	Equip			500	0			--	--	20		
21 4TH FLOOR BAS PANEL - ELEC 4E1	20	1	Equip				500	0		--	--	22		
23 5TH FLOOR NAC - MECHANICAL 5M1														

PANELBOARD NOTES:
 FA- RED LOCK ON CLAMP
 G1- GFIBREWEAR 30A
 G2- GFIBREWEAR 30A
 G3- GFIBREWEAR 30A
 LK- LOCK ON CLAMP

Branch Panel: TD-2		Location: TELEDATA 2TC1		Voltage: 120/208 Wye		Bus Rating: 100 A		Aux Gutter: Y		Neutral Bus: Y		Neutral Rating: 100%		
Supply From: TX-TD		Mounting: Surface		Phases: 3		MLO/MSB MCB		Double Lugged: N		Ground Bus: Y		Isolated Grn Bus: N		
Enclosure: TYPE 1		ISC Rating: 10 KAIC		Wires: 4		MCB Rating: 60 A		Feed Thru Lug: N		Isolated Grn Bus: N				
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 Recept TELEDATA 2TC1	20	1	Recept Equip		540	0				1	20	Spare	2	
3 Recept TELEDATA 2TC1	20	1	Recept			300	3000			1	20	Recept TELEDATA 2TC1	4	
5 Recept TELEDATA 2TC1	20	1	Recept					360	0		20	Spare	6	
7 Spare	20	1	--		0	0					--	--	8	
9 Spare	20	1	--			0	0				2	20	Spare	10
11 Spare	20	2	--				0	0			--	--	12	
13 --	--	--	--		0	0					1	20	Spare	14
15 Spare	20	2	--				0	0			1	20	Spare	16
17 --	--	--	--					0	0		--	--	18	
19 HULL OPEN DOOR POWER SUPPLY TELEDATA 2TC1	20	1	Equip		900	0					1	20	Spare	20
21 Spare	20	1	--				0				1	20	Spare	22
23 Spare	20	1	--					0	0		1	20	Spare	24
25 Spare	20	1	--		0	0					1	20	Spare	26
27 Spare	20	1	--				0	0			1	20	Spare	28
29 Spare	20	1	--					0	0		1	20	Spare	30
31 Spare	20	1	--		0	0					1	20	Spare	32
33 Spare	20	1	--				0	0			1	20	Spare	34
35 Spare	20	1	--					0	0		1	20	Spare	36
37 Spare	20	1	--		0	0					1	20	Spare	38
39 Spare	20	1	--				0	0			1	20	Spare	40
41 Spare	20	1	--					0	0		1	20	Spare	42
Total Load:					1040 VA	3960 VA	360 VA							
Total Amps:					10 A	34 A	3 A							
Comments														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 13860 VA										
Light	0 VA	0.00%	0 VA	Total Est. Demand: 3376 VA										
Recept	900 VA	100.00%	900 VA	Total Conn. Current: 15 A										
Equip	4460 VA	60.00%	2676 VA	Total Est. Demand Current: 10 A										

Branch Panel: DP-2		Location: ELEC 2E1		Voltage: 480/277 Wye		Bus Rating: 225 A		Aux Gutter: Y		Neutral Bus: Y		Neutral Rating: 100%		
Supply From: MDR-1B		Mounting: Surface		Phases: 3		MLO/MSB MCB		Double Lugged: N		Ground Bus: Y		Isolated Grn Bus: N		
Enclosure: TYPE 1		ISC Rating: 14 KAIC		Wires: 4		MCB Rating: 200 A		Feed Thru Lug: N		Isolated Grn Bus: N				
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 PANEL RP-2 VIA XFRM TRP-2	125	3	HVAC Other Recept Equip		17461	0				3	20	Spare	2	
3 --	--	--	--			16566	0				--	--	4	
5 --	--	--	--				19828	0			--	--	6	
7 Spare	20	3	--		0	0					1	20	Spare	8
9 --	--	--	--			0	0				1	20	Spare	10
11 --	--	--	--				0	0			1	20	Spare	12
13 Spare	20	1	--		0	0					1	20	Spare	14
15 Spare	20	1	--				0	0			1	20	Spare	16
17 Spare	20	1	--					0	0		--	--	18	
19 Spare	--	--	--		0	0					--	--	20	
21 Spare	--	--	--				0	0			--	--	22	
23 Spare	--	--	--					0	0		--	--	24	
25 Spare	--	--	--		0	0					--	--	26	
27 Spare	--	--	--				0	0			--	--	28	
29 Spare	--	--	--					0	0		--	--	30	
31 Spare	--	--	--		0	0					--	--	32	
33 Spare	--	--	--				0	0			--	--	34	
35 Spare	--	--	--					0	0		--	--	36	
37 Spare	--	--	--		0	0					--	--	38	
39 Spare	--	--	--					0	0		--	--	40	
41 Spare	--	--	--						0	0	--	--	42	
Total Load:					17461 VA	16566 VA	19828 VA							
Total Amps:					64 A	60 A	72 A							
Comments														
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals										
HVAC	11268 VA	85.00%	9576 VA	Total Conn. Load: 13855 VA										
Light	0 VA	0.00%	0 VA	Total Est. Demand: 37498 VA										
Recept	28480 VA	67.56%	19240 VA	Total Conn. Current: 65 A										
Equip	13567 VA	60.00%	8140 VA	Total Est. Demand Current: 45 A										

Branch Panel: RP-2 (SEC. 1 & SEC. 2)		Location: ELEC 2E1		Voltage: 120/208 Wye		Bus Rating: 225 A		Aux Gutter: N		Neutral Bus: Y		Neutral Rating: 100%					
Supply From: TRP-2		Mounting: Surface		Phases: 3		MLO/MSB MCB		Double Lugged: N		Ground Bus: Y		Isolated Grn Bus: N					
Enclosure: TYPE 1		ISC Rating: 10 KAIC		Wires: 4		MCB Rating: 225 A		Feed Thru Lug: Y		Isolated Grn Bus: N							
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description					
1 MOTORIZED PROJECTION SCREEN - CLASSROOM 210	20	1	Equip		360	540				1	20	RECEPT - TEAM MEETING ROOM 212	2				
3 RECEPT - POKETHRU - CLASSROOM 210	20	1	Recept				720	360			1	20	POKETHRU - TEAM MEETING ROOM 214	4			
5 CEILING MOUNTED PROJECTOR - CLASSROOM 210	20	1	Equip						1600	540		1	20	RECEPT - TEAM MEETING ROOM 212	6		
7 RECEPT - CLASSROOM 210	20	1	Recept		900	360					1	20	POKETHRU - TEAM MEETING ROOM 214	8			
9 RECEPT - TEAM MEETING ROOM 216	20	1	Recept				640	360			1	20	MOTORIZED PROJECTION SCREEN - CLASSROOM 240	10			
11 POKETHRU - TEAM MEETING ROOM 216	20	1	Recept						360	720		1	20	RECEPT - CIRCULATION 2C2, 2C4	12		
13 Printer - SMART LAB 220	20	1	Recept		1020	900						1	20	RECEPT - CIRCULATION 2C2	14		
15 RECEPT - SMART LAB 220	20	1	Recept						360	707		2	15	REFRIGERANT DISTRIBUTOR - CIRCULATION 2C2 WEST	16		
17 RECEPT - SMART LAB 220	20	1	Recept							540	707		--	--	18		
19 RECEPT - SMART LAB 220	20	1	Recept		360	1830						2	20	CEILING/SIDEWALL CASSETTES - FLOOR WEST	20		
21 MOTORIZED PROJECTION SCREEN - SMART LAB 220	20	1	Equip				360	1830			--	--	--	22			
23 CEILING MOUNTED PROJECTOR - SMART LAB 220	20	1	Equip						1600	1768		2	20	CEILING CASSETTES - 2ND FLOOR EAST	24		
25 RECEPT - ELEG 2E1	20	1	Recept		180	1768					--	--	--	26			
27 RECEPT - CIRCULATION 2C1	20	1	Recept				720	360				1	20	RECEPT FOR TABLETOP POWER CONN MECHANICS 280	28		
29 TRAP PRIMER - MENS 2T1	20	1	Equip						180	360		1	20	RECEPT FOR TABLETOP POWER CONN MECHANICS 280	30		
31 REFRIGERANT DISTRIBUTOR - CIRCULATION 2C2 EAST	15	2	HVAC		707	360						1	20	RECEPT - MECHANICS 280	32		
33 --	--	--	--						707	360		1	20	RECEPT - MECHANICS 280	34		
35 WATER COOLER EWC-1 - CIRCULATION 2C2	20	1	Equip								360	360		1	20	POKETHRU - MECHANICS 280	36
37 SINKIE CURTAIN MOTOR - CIRCULATION 2C1	20	1	Other		540	360						1	20	RECEPT FOR TABLETOP POWER CONN MECHANICS 280	38		
39 POKETHRU - CLASSROOM 240	20	1	Recept				360	1920				1	20	PRINTER - MECHANICS 280	40		
41 CEILING MOUNTED PROJECTOR - CLASSROOM 240	20	1	Equip						1600	354		2	15	SCARA ROBOT MECHANICS 280	42		
43 RECEPT - CLASSROOM 240	20	1	Recept		1080	954					--	--	--	44			
45 Spare	20	1	--				0	1600				1	20	CEILING MOUNTED PROJECTOR - MECHANICS 280	46		
47 RECEPT - CLASSROOM 260	20	1	Recept						1260	540		1	20	RECEPT - MECHANICS 280	48		
49 MOTORIZED PROJECTION SCREEN - CLASSROOM 260	20	1	Equip		360	1080						1	20	UNDER TABLE POKETHRUS - MECHANICS 280	50		
51 POKETHRU - CLASSROOM 260	20	1	Recept				360	360				1	20	RECEPT - MECHANICS 280	52		
53 CEILING MOUNTED PROJECTOR - CLASSROOM 260	20	1	Equip						1600	540		1	20	RECEPT - MECHANICS 280	54		
55 POKETHRU - TEAM MEETING ROOM 284	20	1	Recept		360	360						1	20	MOTORIZED PROJECTION SCREEN - MECHANICS 280	56		
57 RECEPT - TEAM MEETING ROOM 284	20	1	Recept				540	540				1	20	RECEPT - TEAM MEETING ROOM 282	58		
59 MOTORIZED PROJECTION SCREEN - CLASSROOM 290	20	1	Equip						360	360		1	20	POKETHRU - TEAM MEETING ROOM 282	60		
61 POKETHRU - CLASSROOM 290	20	1	Recept		360	1080						1	20	FLUSHFAUCET VALVE - WOMENS 2T2	62		
63 RECEPT - CLASSROOM 290	20	1	Recept				720	720				1	20	RECEPT - MENS 2T1, WOMENS 2T2	64		
65 CEILING MOUNTED PROJECTOR - CLASSROOM 290	20	1	Equip						1600	1080		1	20	FLUSHFAUCET VALVE - MENS 2T1	66		
67 RECEPT - CLASSROOM 290	20	1	Recept		720	622					2	20	CEILING CASSETTES - 2ND FLOOR EAST	68			
69 POKETHRU SMART LAB 220	20	1	Recept				1440	622			--	--	--	70			
71 POKETHRU SMART LAB 220	20	1	Recept						1440	0		1	20	Spare	72		
73 Spare	20	1	--		0	0					--	--	1	20	Spare	74	
75 Spare	20	1	--				0	0			--	--	1	20	Spare	76	
77 Spare	20	1	--						0	0		--	--	1	20	Spare	78
79 Spare	20	1	--		0	0					--	--	1	20	Spare	80	
81 Spare	20	1	--				0	0			--	--	1	20	Spare	82	
83 Spare	20	1	--						0	0		--	--	1</			

PANELBOARD NOTES:
 FA- RED LOCK-ON CLAMP
 GF1- GFI BREAKER 30MA
 QP- OFF BREAKER 30MA
 LC- LOCK-ON CLAMP
 LX- LOCK-OFF CLAMP

Branch Panel: TD-3																	
Location: TELEDATA 3TC1			Voltage: 120/208 Wye			Bus Rating: 100 A			Aux Gutter: Y			Neutral Bus: Y			Neutral Rating: 100%		
Supply From: TX-TD			Phases: 3			MLO/NCB: MCB			Double Lugged: N			Ground Bus: Y			Feeder Lug: N		
Enclosure: TYPE 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 60 A			Isolated Gm Bus: N					
Circuit Description	Trip Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Trip Rating	Circuit Description					
1 Recept TELEDATA 3TC1	20	1	Recept Equip		540	3600				1	20	Recept TELEDATA 3TC1	2				
3 Recept TELEDATA 3TC1	20	1	Recept			360	0			1	20	Spare	4				
5 Recept TELEDATA 3TC1	20	1	Recept				360	0		2	20	Spare	6				
7 Spare	20	1	--		0	0				--	--	Spare	8				
9 Spare	20	1	--			0	0			2	20	Spare	10				
11 Spare	20	2	--				0	0		--	--	Spare	12				
13 --	--	--	--		0	0				1	20	Spare	14				
15 Spare	20	2	--			0	0			1	20	Spare	16				
17 --	--	--	--				0	0		1	20	Spare	18				
19 HUB AREA DOOR POWER SUPPLY TELEDATA 3TC1	20	1	Equip		900	0				1	20	Spare	20				
21 Spare	20	1	--			0	0			1	20	Spare	22				
23 Spare	20	1	--				0	0		1	20	Spare	24				
25 Spare	20	1	--		0	0				1	20	Spare	26				
27 Spare	20	1	--			0	0			1	20	Spare	28				
29 Spare	20	1	--				0	0		1	20	Spare	30				
31 Spare	20	1	--		0	0				1	20	Spare	32				
33 Spare	20	1	--			0	0			1	20	Spare	34				
35 Spare	20	1	--				0	0		1	20	Spare	36				
37 Spare	20	1	--		0	0				1	20	Spare	38				
39 Spare	20	1	--			0	0			1	20	Spare	40				
41 Spare	20	1	--				0	0		1	20	Spare	42				
Total Load:					4640 VA	360 VA	360 VA										
Total Amps:					39 A	3 A	3 A										

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 1360 VA
Light	0 VA	0.00%	0 VA	Total Est. Demand: 3576 VA
Recept	900 VA	100.00%	900 VA	Total Conn. Current: 15 A
Equip	4460 VA	60.00%	2676 VA	Total Est. Demand Current: 10 A

Branch Panel: DP-3																	
Location: ELEC 3E1			Voltage: 480/277 Wye			Bus Rating: 225 A			Aux Gutter: Y			Neutral Bus: Y			Neutral Rating: 100%		
Supply From: MDR-1B			Phases: 3			MLO/NCB: MCB			Double Lugged: N			Ground Bus: Y			Feeder Lug: N		
Enclosure: TYPE 1			ISC Rating: 14 KAIC			Wires: 4			MCB Rating: 200 A			Isolated Gm Bus: N					
Circuit Description	Trip Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Trip Rating	Circuit Description					
1 PANEL RP-3 VIA XFMR TRP-3	125	3	Regt. Light Equip		30824	0				3	20	Spare	2				
3 --	--	--	--			32411	0			--	--	Spare	4				
5 --	--	--	--				31836	0		--	--	Spare	6				
7 Spare	20	1	--		0	0				1	20	Spare	8				
9 Spare	20	1	--			0	0			1	20	Spare	10				
11 Spare	20	1	--				0	0		1	20	Spare	12				
13 Spare	20	1	--		0	0				1	20	Spare	14				
15 Spare	20	1	--				0	0		1	20	Spare	16				
17 Spare	20	1	--				0	0		1	20	Spare	18				
19 Spare	20	1	--		0	0				1	20	Spare	20				
21 Spare	20	1	--			0	0			1	20	Spare	22				
23 Spare	20	1	--				0	0		1	20	Spare	24				
25 Spare	20	1	--		0	0				1	20	Spare	26				
27 Spare	20	1	--			0	0			1	20	Spare	28				
29 Spare	20	1	--				0	0		1	20	Spare	30				
31 Spare	20	1	--		0	0				1	20	Spare	32				
33 Spare	20	1	--			0	0			1	20	Spare	34				
35 SPARE	20	1	--				0	0		1	20	Spare	36				
37 Spare	20	1	--		0	0				1	20	Spare	38				
39 Spare	20	1	--			0	0			1	20	Spare	40				
41 Spare	20	1	--				0	0		1	20	Spare	42				
Total Load:					30824 VA	32411 VA	31836 VA										
Total Amps:					111 A	118 A	115 A										

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 15081 VA
Light	90 VA	125.00%	113 VA	Total Est. Demand: 15085 VA
Recept	70220 VA	57.12%	40110 VA	Total Conn. Current: 114 A
Equip	24771 VA	60.00%	14862 VA	Total Est. Demand Current: 96 A

Branch Panel: LP-3																	
Location: ELEC 3E1			Voltage: 480/277 Wye			Bus Rating: 100 A			Aux Gutter: N			Neutral Bus: Y			Neutral Rating: 100%		
Supply From: MDR-1B			Phases: 3			MLO/NCB: MCB			Double Lugged: N			Ground Bus: Y			Feeder Lug: N		
Enclosure: TYPE 1			ISC Rating: 14 KAIC			Wires: 4			MCB Rating: 100 A			Isolated Gm Bus: N					
Circuit Description	Trip Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Trip Rating	Circuit Description					
1 3RD FLOOR - CORRIDORS	20	1	Light		852	2589				1	20	3RD FLOOR - ROOMS	2				
3 3RD FLOOR - ROOMS	20	1	Light			1629	2110		Other: Light	1	20	4TH FLOOR - CORRIDORS, OPEN OFFICE	4				
5 4TH FLOOR - ROOMS	20	1	Light				2866	3170	Light	1	20	5TH FLOOR - LIGHTING	6				
7 Spare	20	1	--		0	0				1	20	Spare	8				
9 Spare	20	1	--			0	0			1	20	Spare	10				
11 Spare	20	1	--				0	0		1	20	Spare	12				
13 Spare	20	1	--		0	0				1	20	Spare	14				
15 Spare	20	1	--				0	0		1	20	Spare	16				
17 Spare	20	1	--				0	0		1	20	Spare	18				
19 Spare	20	1	--		0	0				1	20	Spare	20				
21 Spare	20	1	--			0	0			1	20	Spare	22				
23 Spare	20	1	--				0	0		1	20	Spare	24				
25 Spare	20	1	--		0	0				1	20	Spare	26				
27 Spare	20	1	--		0	0				1	20	Spare	28				
29 Spare	20	1	--				0	0		1	20	Spare	30				
31 Spare	20	1	--		0	0				1	20	Spare	32				
33 Spare	20	1	--			0	0			1	20	Spare	34				
35 Spare	20	1	--				0	0		1	20	Spare	36				
37 Spare	20	1	--		0	0				1	20	Spare	38				
39 Spare	20	1	--			0	0			1	20	Spare	40				
41 Spare	20	1	--				0	0		1	20	Spare	42				
Total Load:					3440 VA	3739 VA	4036 VA										
Total Amps:					12 A	14 A	15 A										

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 11254 VA
Light	11200 VA	125.00%	14000 VA	Total Est. Demand: 14054 VA
Recept	0 VA	0.00%	0 VA	Total Conn. Current: 14 A
Equip	0 VA	0.00%	0 VA	Total Est. Demand Current: 17 A

Branch Panel: RP-3 (SEC. 1 & SEC. 2)																	
Location: ELEC 3E1			Voltage: 120/208 Wye			Bus Rating: 225 A			Aux Gutter: N			Neutral Bus: Y			Neutral Rating: 100%		
Supply From: TRP-3			Phases: 3			MLO/NCB: MCB			Double Lugged: N			Ground Bus: Y			Feeder Lug: N		
Enclosure: TYPE 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 225 A			Isolated Gm Bus: N					
Circuit Description	Trip Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Trip Rating	Circuit Description					
1 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept			720	360			1	20	RECEPT - ELECTRONICS LAB 360	2				
3 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept				720	1600		1	20	CEILING MOUNTED PROJECTOR - ELECTRONICS LAB 360	4				
5 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept					720	360	1	20	MOTORIZED PROJECTION SCREEN - ELECTRONICS LAB 360	6				
7 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept		360	360				1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	8				
9 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Equip				1600	360		1	20	RECEPT - ELECTRONICS LAB 360	10				
11 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept					360	1080	1	20	RECEPT - ELECTRONICS LAB 360	12				
13 POKETHRU - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept		180	360				1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	14				
15 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept				720	360		1	20	UNDER TABLE POKETHRUS - ELECTRONICS LAB 360	16				
17 RECEPT - ADV ELECTRONIC DESIGN LAB 360	20	1	Recept					720	360	1	20	RECEPT - ELECTRONICS LAB 360	18				
19 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept		360	360				1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	20				
21 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept				720	360		1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	22				
23 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept					360	360	1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	24				
25 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept		360	360				1	20	RECEPT FOR TABLETOP POWER CONN ELECTRONICS LAB 360	26				
27 RECEPT FOR TABLETOP POWER CONN ADV ELECTRONIC DESIGN LAB 360	20	1	Recept				360	720		1	20	RECEPT - SIGNAL PROCESSING 362	28				
29 RECEPT - CONFERENCE ROOM 300	20	1	Recept					500	1080	1	20	RECEPT - SIGNAL PROCESSING 362	30				
31 UNDER TABLE POKETHRUS - CONFERENCE ROOM 300	20	1	Recept		540	720				1	20	RECEPT - SIGNAL PROCESSING 362	32				
33 SPARE	20	1	--				0	360		1	20	RECEPT - SIGNAL PROCESSING 362	34				
35 SPARE	20	1	--					0	180	1	20	POKETHRU - SIGNAL PROCESSING 362	36				
37 MOTORIZED PROJECTION SCREEN - CONTROLS / FIELDS LAB 308	20	1	Equip		360	720				1							

PANELBOARD NOTES:
 FA - RED LOCK-ON CLAMP
 GF1 - GFI BREAKER 50A
 GF2 - GFI BREAKER 300A
 LD - LOCK-ON CLAMP
 LC - LOCK-OFF CLAMP

Branch Panel: TD-4														
Location: TELEDATA 4TC1			Voltage: 120/208 Wye			Bus Rating: 100 A			Aux Gutter: Y			Neutral Rating: 100%		
Supply From: TX-TD			Phases: 3			MLO/NCB MCB			Double Lugged: N			Ground Bus: Y		
Enclosure: TYPE 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 60 A			Feed Thru Lug: N		
Isolated Grn Bus: N														
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 RECP TELEDATA 4TC1	20	1	Recept		360	360			Recept	1	20	Recept TELEDATA 4TC1		
3 RECP TELEDATA 4TC1	20	1	Recept Equip			540	360		Equip	1	20	Recept TELEDATA 4TC1		
5 HOLD OPEN DOOR POWER SUPPLY TELEDATA 4TC1	20	1	Equip				500	0		1	20	Spare		
7 Spare	20	1			0	0				2	20	Spare		
9 Spare	20	2			0	0								
11 Spare	20	1					0	0		2	20	Spare		
13 Spare	20	1			0	0								
15 Spare	20	1					0	0		1	20	Spare		
17 Spare	20	1					0	0		1	20	Spare		
19 Spare	20	1			0	0				1	20	Spare		
21 Spare	20	1				0	0			1	20	Spare		
23 Spare	20	1					0	0		1	20	Spare		
25 Spare	20	1			0	0				1	20	Spare		
27 Spare	20	1				0	0			1	20	Spare		
29 Spare	20	1					0	0		1	20	Spare		
31 Spare	20	1			0	0				1	20	Spare		
33 Spare	20	1				0	0			1	20	Spare		
35 Spare	20	1					0	0		1	20	Spare		
37 Spare	20	1			0	0				1	20	Spare		
39 Spare	20	1				0	0			1	20	Spare		
41 Spare	20	1					0	0		1	20	Spare		
Total Load:					720 VA	4140 VA	500 VA							
Total Amps:					6 A	35 A	4 A							

Branch Panel: PP-AL														
Location: ASPHALT LAB 103A			Voltage: 120/208 Wye			Bus Rating: 200 A			Aux Gutter: N			Neutral Rating: 100%		
Supply From: PANEL CL			Phases: 3			MLO/NCB MCB			Double Lugged: N			Ground Bus: Y		
Enclosure: Type 1			ISC Rating: 65KAIC			Wires: 4			MCB Rating: 150 A			Feed Thru Lug: N		
Isolated Grn Bus: N														
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 Spare	20	1			0	4160			Equip	2	50	LE-CVE-0386 - ASPHALT LAB 103A		
3 Spare	20	1				0	4160							
5 RECP - ASPHALT LAB 103A	20	1	Recept				720	998	Equip	2	20	LE-CVE-0314 - ASPHALT LAB 103A		
7 Spare	20	1			0	988								
9 LE-CVE-0364 - ASPHALT LAB 103A	20	1	Equip			1500	720		Equip	2	15	LE-CVE-0398 - ASPHALT LAB 103A		
11 LE-CVE-0314-2 - ASPHALT LAB 103A	20	1	Recept				160	720						
13 LE-CVE-0304-3 - ASPHALT LAB 103A	20	1	Equip		220	360			Recept	1	20	RECP ABOVE CTR - ASPHALT LAB 103A (NORTH)		
15 LE-CVE-0304-1 - ASPHALT LAB 103A	20	1	Equip			180	720		Equip	1	20	LE-CVE-0300 - ASPHALT LAB 103A		
17 RECP ABOVE CTR - ASPHALT LAB 103A (SOUTH)	20	1	Recept				180	2400	Equip	1	20	LE-CVE-0381 - ASPHALT LAB 103A		
19 LE-CVE-0307-1 - ASPHALT LAB 103A	20	1	Equip	GF1	240	720			Equip	1	20	LE-CVE-0392 - ASPHALT LAB 103A		
21 LE-CVE-0307-2 - ASPHALT LAB 103A	20	1	Equip	GF1	240	180			Recept	1	20	RTU-2 RECP		
23 LE-CVE-0307-2 - ASPHALT LAB 103A	20	1	Equip	GF1			420	1200	Equip	1	20	LE-CVE-0307 - ASPHALT LAB 103A		
25 LE-CVE-0311-3 - ASPHALT LAB 103A	20	1	Equip	GF1	1400	0								
27 LE-CVE-0311-3 - ASPHALT LAB 103A	20	1	Equip	GF1		840	0			1	20	Spare		
29 LE-CVE-0311-3 - ASPHALT LAB 103A	20	1	Equip	GF1			1200	0		1	20	Spare		
31 DRAIN PUMP ASPHALT LAB	20	1	Equip		500	0				1	20	Spare		
33 Spare	20	1				0	0			1	20	Spare		
35 LE-CVE-0321 - ASPHALT LAB 103A	20	1	Equip	GF1			180	0		1	20	Spare		
37 Spare	20	1			0	0				1	20	Spare		
39 Spare	20	1				0	0			1	20	Spare		
41 Spare	20	1					0	0		1	20	Spare		
Total Load:					6588 VA	8540 VA	8188 VA							
Total Amps:					72 A	72 A	68 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 25316 VA
Light	0 VA	0.00%	0 VA	Total Est. Demand: 15838 VA
Recept	1620 VA	100.00%	1620 VA	Total Conn. Current: 70 A
Equip	23668 VA	60.00%	14218 VA	Total Est. Demand Current: 48 A

Branch Panel: DP-4														
Location: ELEC 4E1			Voltage: 480/277 Wye			Bus Rating: 225 A			Aux Gutter: Y			Neutral Rating: 100%		
Supply From: MDR-1B			Phases: 3			MLO/NCB MCB			Double Lugged: N			Ground Bus: Y		
Enclosure: TYPE 1			ISC Rating: 14 KAIC			Wires: 4			MCB Rating: 220 A			Feed Thru Lug: N		
Isolated Grn Bus: N														
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 PANEL RP-4 VIA XFMR TRP-4	125	3	Recept Equip		17917	0				3	20	Spare		
3 -	-	-	-			18300	0							
5 -	-	-	-				18095	0						
7 Spare	20	3			0	0				1	20	Spare		
9 -	-	-	-			0	0			1	20	Spare		
11 -	-	-	-				0	0		1	20	Spare		
13 Spare	20	1			0	0								
15 Spare	20	1					0	0						
17 Spare	20	1					0	0						
19 Spare	20	1				0	0							
21 Spare	20	1					0	0						
23 Spare	20	1					0	0						
25 Spare	20	1				0	0							
27 Spare	20	1					0	0						
29 Spare	20	1					0	0						
31 Spare	20	1				0	0							
33 Spare	20	1					0	0						
35 Spare	20	1					0	0						
37 Spare	20	1				0	0							
39 Spare	20	1					0	0						
41 Spare	20	1					0	0						
Total Load:					17917 VA	18300 VA	18095 VA							
Total Amps:					65 A	66 A	65 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 14312 VA
Light	0 VA	0.00%	0 VA	Total Est. Demand: 13091 VA
Recept	44860 VA	61.12%	27480 VA	Total Conn. Current: 65 A
Equip	9352 VA	60.00%	5611 VA	Total Est. Demand Current: 40 A

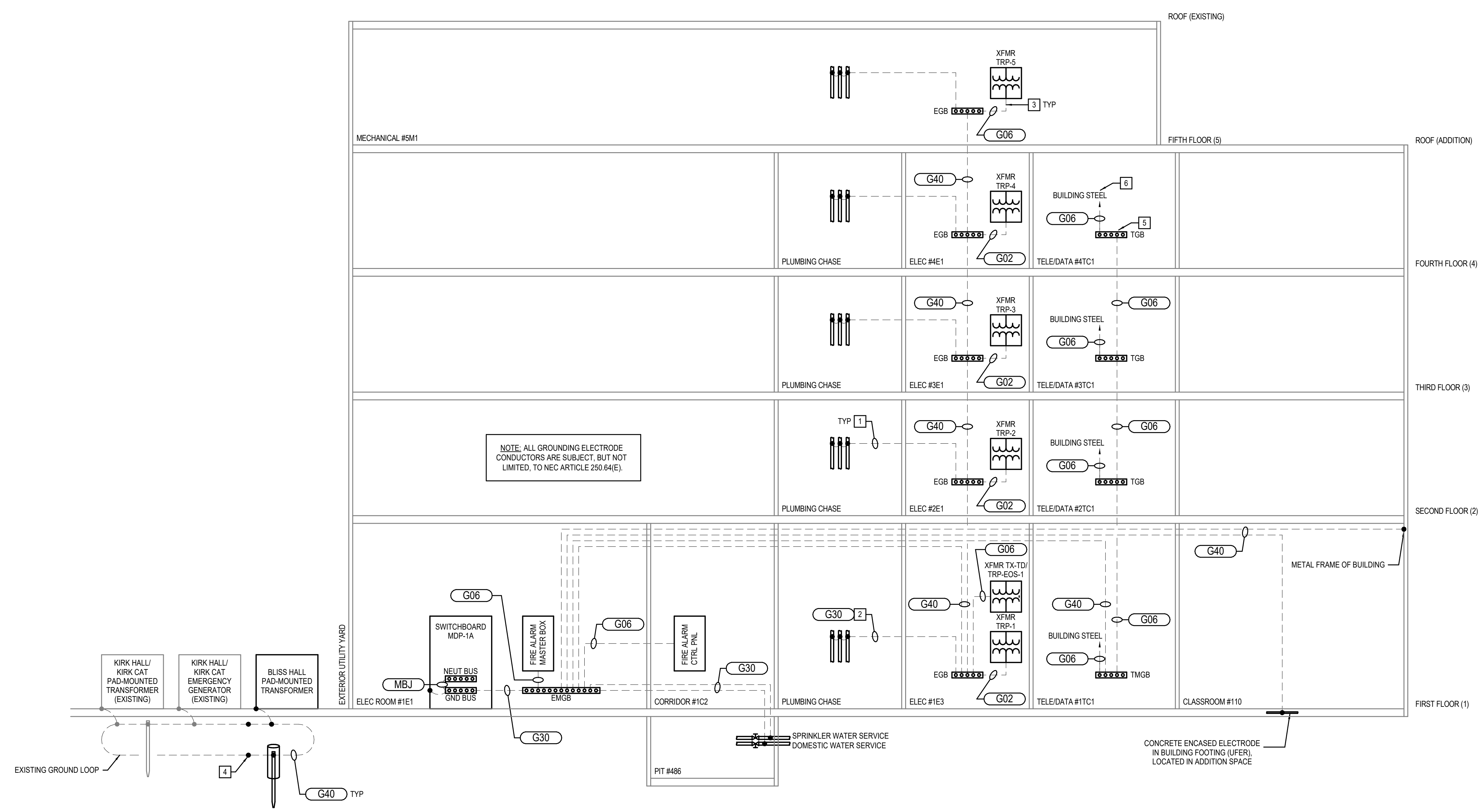
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC	0 VA	0.00%	0 VA	Total Conn. Load: 5144 VA
Light	540 VA	125.00%	675 VA	Total Est. Demand: 4645 VA
Recept	3020 VA	100.00%	3020 VA	Total Conn. Current: 14 A
Equip	1584 VA	60.00%	950 VA	Total Est. Demand Current: 13 A

Branch Panel: RP-4 (SEC. 1 & SEC. 2)														
Location: ELEC 4E1			Voltage: 120/208 Wye			Bus Rating: 225 A			Aux Gutter: N			Neutral Rating: 100%		
Supply From: TRP-4			Phases: 3			MLO/NCB MCB			Double Lugged: N			Ground Bus: Y		
Enclosure: TYPE 1			ISC Rating: 10 KAIC			Wires: 4			MCB Rating: 225 A			Feed Thru Lug: Y		
Isolated Grn Bus: N														
Circuit Description	Tripp Rating	Poles	Load Class	Notes	A	B	C	Notes	Load Class	Poles	Tripp Rating	Circuit Description		
1 RECP - DEVELOPMENT OFFICER 1 480N	20	1	Recept		720	720			Recept	1	20	RECP - DEVELOPMENT OFFICER 2 480N		
3 RECP - MARKETING 480L	20	1	Recept			720	720		Recept	1	20	RECP - MARKETING 480K		
5 RECP - SRGA POST AWARD 480U	20	1	Recept				720	900	Recept	1	20	RECP - ASSOCIATE DEAN OF RESEARCH 480H		
7 RECP - ASSISTANT BUSINESS MANAGER 480B	20	1	Recept			720	720		Recept	1	20	RECP - SRGA POST AWARD 480A		
9 RECP - BUSINESS MANAGER 480C	20	1	Recept				720	900	Recept	1	20	RECP - COPY / WORKROOM 480Q		
11 RECP - COPY/WORKROOM	20	1	Recept					180	900	Recept	1	20	RECP - COPY/WORKROOM 480Q	
13 RECP - CIRCULATION 4C2	20	1	Recept		720	180			Recept	1	20	RECP - ELEC 4E1		
15 FAUCET/FLUSH VALVE - MENS 4T1	20	1	Recept				1080	1080	Recept	1	20	RECP - FAUCET/FLUSH VALVE - WOMENS 4T2		
17 RECP - MENS 4T1/WOMENS 4T2	20	1	Recept				720	360	GF1	Recept	1	20	ELECTRIC WATER COOLER - CIRCULATION 4C2	
19 RECP - IEP ADMINISTER 420L	20	1	Recept		720	900			Recept	1	20	RECP - MEETING ROOM 420M		
21 RECP - DIVERSITY SUITE #	20	1	Recept				360	720	Recept	1	20	RECP - COORDINATOR & INTERNSHIP 420K		
23 TRAP PRIMER - MENS 4T1	20	1	Equip				180	540	Recept	1	20	RECP - DIVERSITY SUITE #		
25 RECP - ASSISTANT TO THE DEAN 480C	20	1	Recept		720	900			Recept	1	20	RECP - DIVERSITY SUITE #		
27 POKETHRU - STUDENT AFFAIRS 420	20	1	Recept				900	720	Recept	1	20	RECP - ASSISTANT DIRECTOR OF DIVERSITY 425A		
29 POKETHRU - STUDENT AFFAIRS 420	20	1	Recept				900	720	Recept	1	20	RECP - FACULTY IN RESIDENCE 420E		
31 POKETHRU - STUDENT AFFAIRS 420	20	1	Recept		900	720			Recept	1	20	RECP - MEETING ROOM 420D		
33 POKETHRU - STUDENT AFFAIRS 420	20	1	Recept				900	180	GF1	Recept	1	20	REFRIGERATOR - PANTRY 480P	
35 RECP - STUDENT AFFAIRS 420	20	1	Recept					720	540	Recept	1	20	RECP - PANTRY 480P	
37 RECP - REFRIGERANT DISTRIBUTOR - STUDENT AFFAIRS 420	15	2	Equip		707	1200			Recept	1	20	RECP - PANTRY 480P		
39 -	-	-	-				707	180	Recept	1	20	RECP - PANTRY 480P		
41 RECP - ASSISTANT DEAN OF STUDENT AFFAIRS 420F	20	1	Recept					900	1200	Recept	1	20	RECP - PANTRY 480P	
43 RECP - DEANS CONFERENCE ROOM 410 STORAGE & PREP 410A	20	1	Recept		900	3								

GROUNDING CONDUCTOR IDENTIFICATION SCHEDULE	
TAG	WIRE (C) & CONDUIT
G08	(1) #6, (1) 3/4" C
G04	(1) #4, (1) 3/4" C
G02	(1) #2, (1) 3/4" C
G10	(1) #2/0, (1) 1" C
G20	(1) #2/0, (1) 1" C
G30	(1) #3/0, (1) 1" C
G40	(1) #4/0, (1) 1" C
MBI	(1) #250 KCMIL

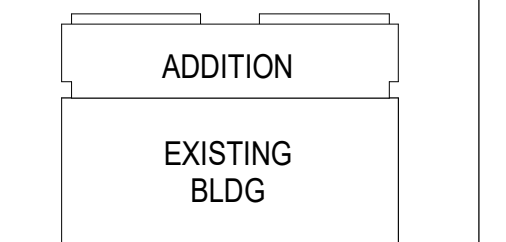
GROUNDING BUSBAR SCHEDULE	
TAG	SIZE
EMGB	1/4" x 4" x 24"
EGB	1/4" x 4" x 12"
TMGB	1/4" x 4" x 24"
TGB	1/4" x 2" x 24"

- GENERAL GROUNDING RISER DIAGRAM NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET EG01.
- GROUNDING RISER DIAGRAM KEY NOTES:
- BOND ALL METAL PIPING TO THE GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 250.104(B) AND 250.104(D).
 - NOT USED.
 - BOND ALL SEPARATELY DERIVED SYSTEMS TO THE GROUNDING ELECTRODE SYSTEM IN ACCORDANCE WITH THE REQUIREMENTS OF 250.104(D).
 - EXTEND EXISTING GROUND LOOP TO NEW TRANSFORMER PAD AND CONNECT AS REQUIRED.
 - CABLE TRAY AND RACK BONDING BY TELECOM CONTRACTOR.
 - CAWELD CONNECTION TO BUILDING STEEL.



N.T.S. 1 GROUNDING RISER DIAGRAM

KEYPLAN



SEAL:

CONDITION OF USE
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070518 ISSUE 5
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: As indicated

ELECTRICAL

TITLE:
 GROUNDING RISER DIAGRAM

NUMBER:
 EG301

LIGHTING PLAN KEY NOTES:

- 1 LIGHTING FIXTURES IN PRIMARY AND SECONDARY SIDELIGHTED AREAS WILL BE DIMMED SEPARATELY. (TYP) LIGHTING FIXTURES IN SIDELIGHTED AREAS FACING DIFFERENT CARDINAL DIRECTIONS WILL BE DIMMED SEPARATELY (TYP).

GENERAL LIGHTING PLAN NOTES:

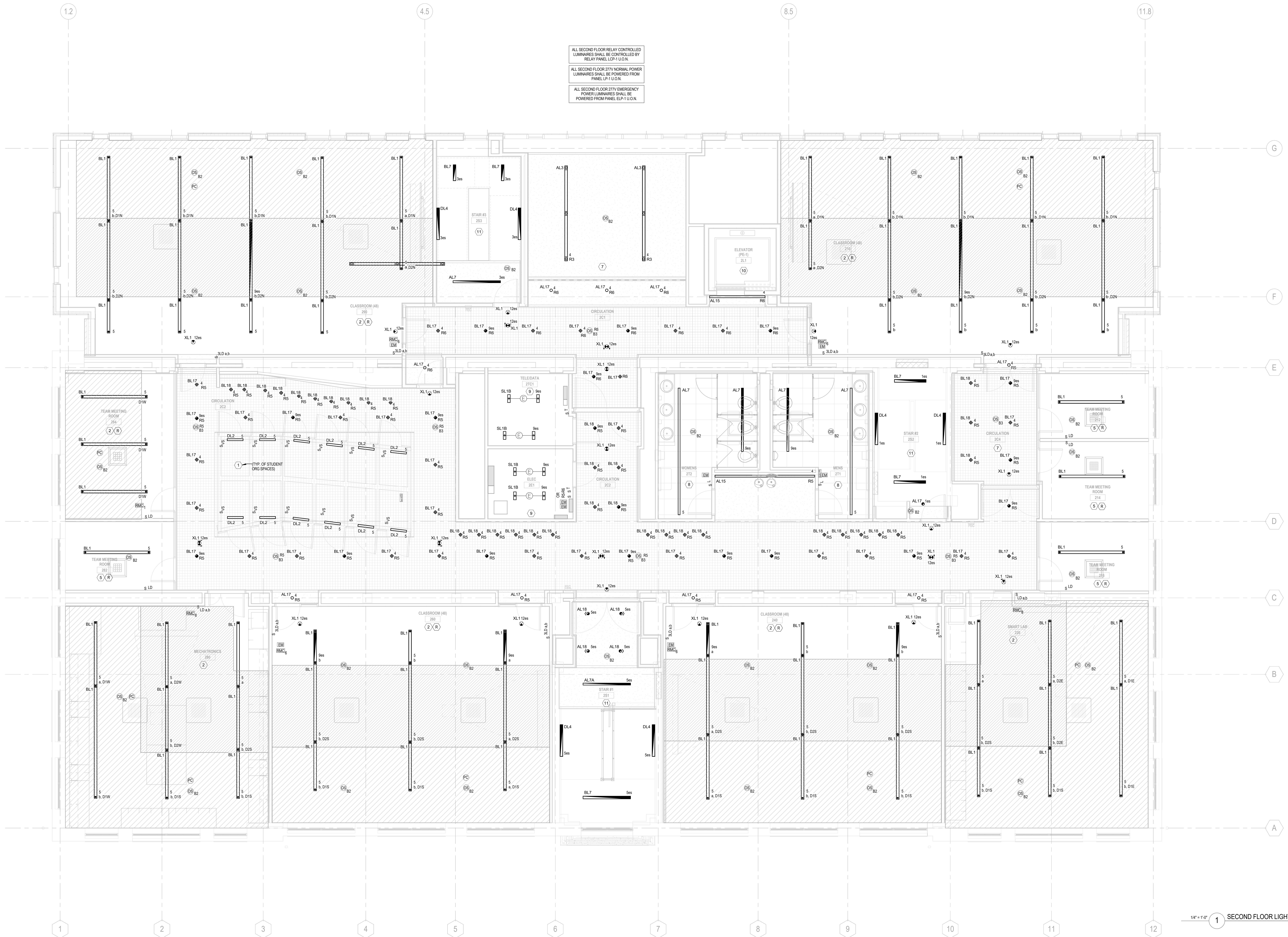
- 1 FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
- 2 FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET EL101.

- # REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE EL101

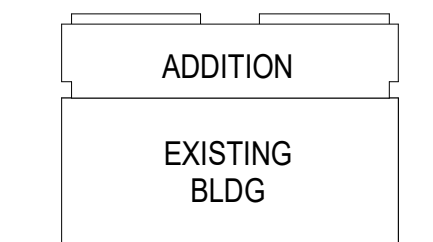
ALL SECOND FLOOR RELAY CONTROLLED LUMINAIRES SHALL BE CONTROLLED BY RELAY PANEL LCR-1 U.O.N.

ALL SECOND FLOOR 277V NORMAL POWER LUMINAIRES SHALL BE POWERED FROM PANEL LP-1 U.O.N.

ALL SECOND FLOOR 277V EMERGENCY POWER LUMINAIRES SHALL BE POWERED FROM PANEL EP-1 U.O.N.



KEYPLAN:



SEAL:

CONDITION OF USE

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"

ELECTRICAL

TITLE:

SECOND FLOOR LIGHTING PLAN

NUMBER:

EL102

1/4" = 1'-0" 1 SECOND FLOOR LIGHTING PLAN

LIGHTING PLAN KEYED NOTES:

- 1 LIGHTING FIXTURES IN PRIMARY AND SECONDARY SIDELIGHTED AREAS WILL BE DIMMED SEPARATELY. LIGHTING FIXTURES IN SIDELIGHTED AREAS FACING DIFFERENT CARDINAL DIRECTIONS WILL BE DIMMED SEPARATELY (TYP).

- 2 REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE ELS01

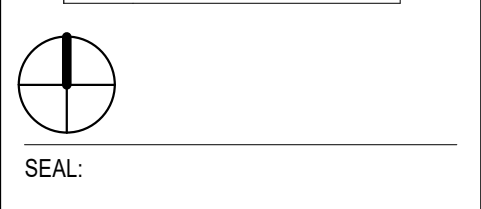
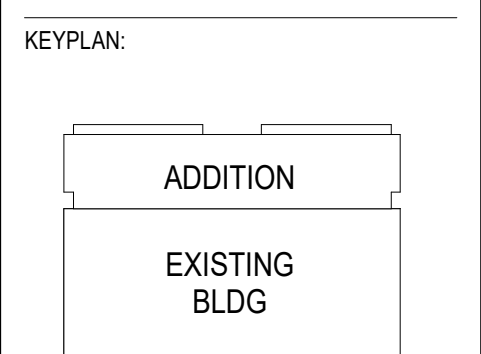
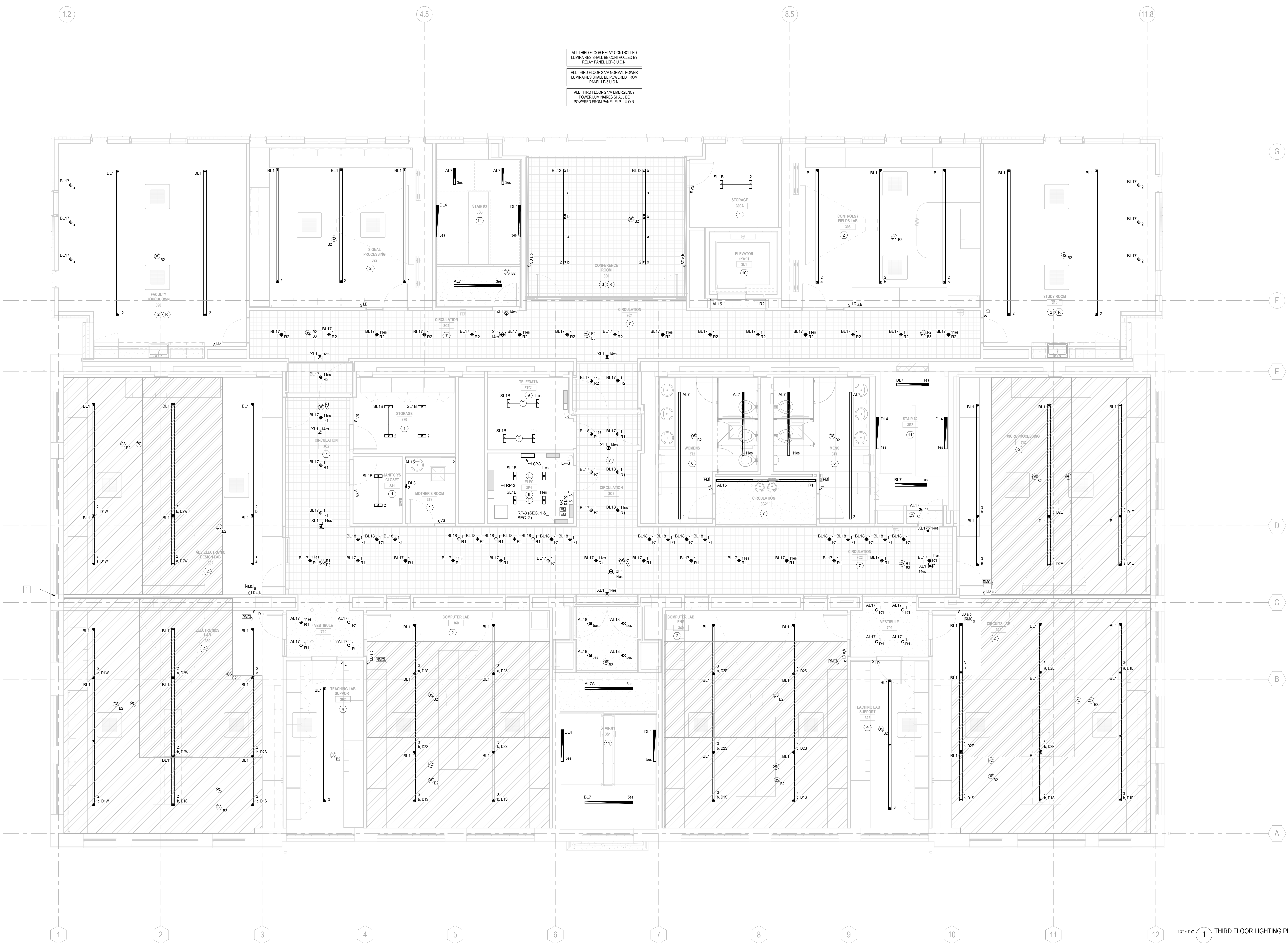
GENERAL LIGHTING PLAN NOTES:

- 1 FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET ELS01.
- 2 FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET ELS01.

ALL THIRD FLOOR RELAY CONTROLLED LUMINAIRES SHALL BE CONTROLLED BY RELAY PANEL LOP-3 U.O.N.

ALL THIRD FLOOR 277V NORMAL POWER LUMINAIRES SHALL BE POWERED FROM PANEL LP-3 U.O.N.

ALL THIRD FLOOR 277V EMERGENCY POWER LUMINAIRES SHALL BE POWERED FROM PANEL ELP-1 U.O.N.



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07/05/18 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"

ELECTRICAL

THIRD FLOOR LIGHTING PLAN

NUMBER:
EL103

LIGHTING PLAN KEYED NOTES:

- 1 LIGHTING FIXTURES IN PRIMARY AND SECONDARY SIDELIGHTED AREAS WILL BE DIMMED SEPARATELY. (TYP) LIGHTING FIXTURES IN SIDELIGHTED AREAS FACING DIFFERENT CARDINAL DIRECTIONS WILL BE DIMMED SEPARATELY (TYP).

- 2 REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE ELS01

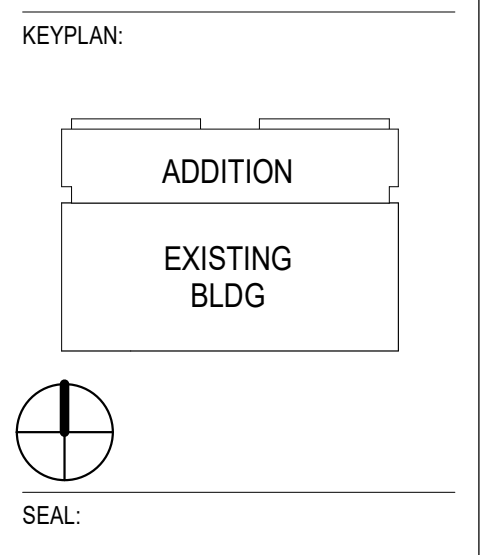
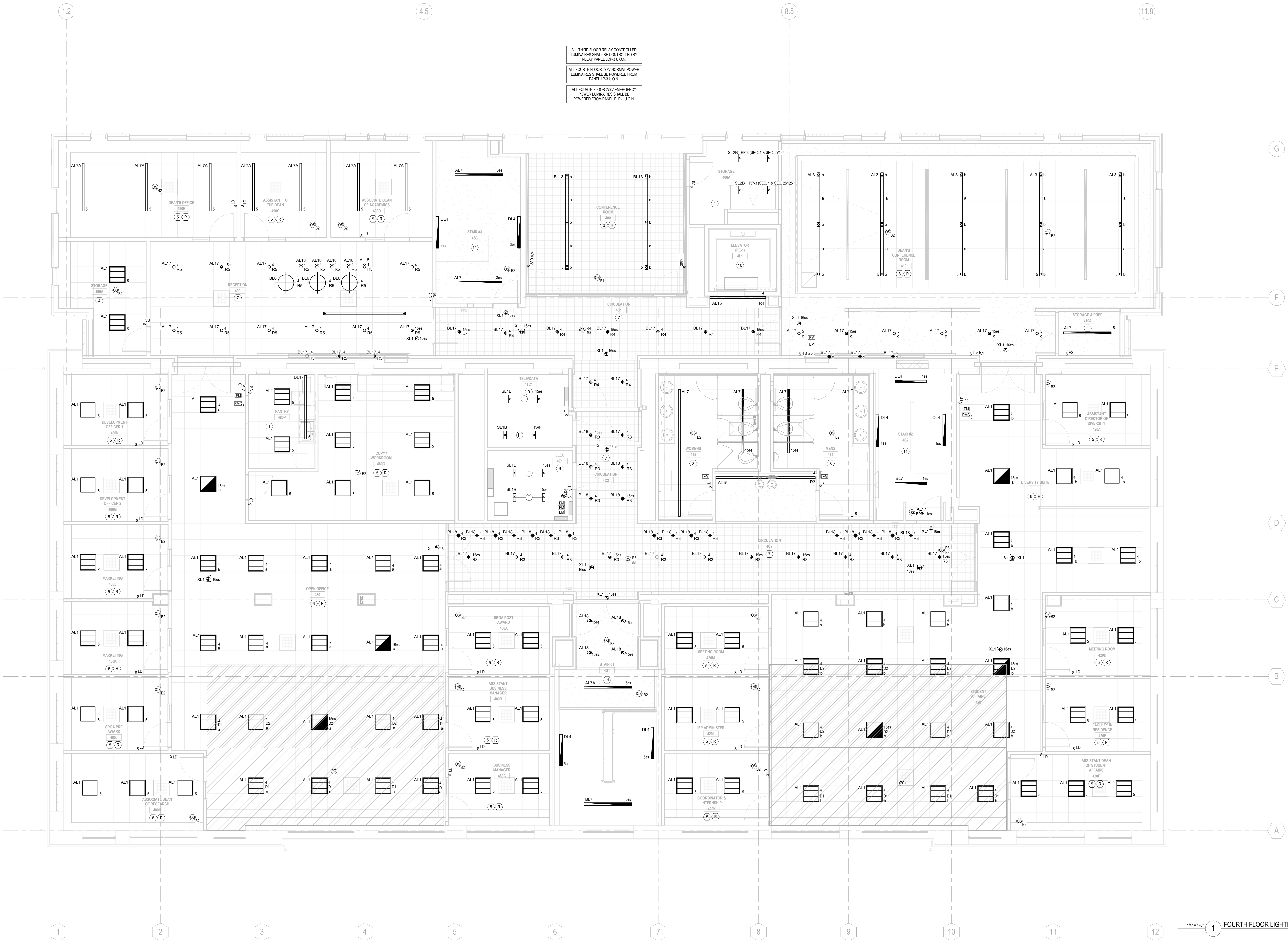
GENERAL LIGHTING PLAN NOTES:

- 1 FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET ELS01.
- 2 FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET ELS01.

ALL THIRD FLOOR RELAY CONTROLLED LUMINAIRES SHALL BE CONTROLLED BY RELAY PANEL LCP-3 U.O.N.

ALL FOURTH FLOOR 277V NORMAL POWER LUMINAIRES SHALL BE POWERED FROM PANEL LP-3 U.O.N.

ALL FOURTH FLOOR 277V EMERGENCY POWER LUMINAIRES SHALL BE POWERED FROM PANEL EP-1 U.O.N.



CONDITION OF USE

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ELECTRICAL

TITLE:
FOURTH FLOOR LIGHTING PLAN

NUMBER:
EL104

1/4" = 1'-0" 1 FOURTH FLOOR LIGHTING PLAN

LIGHTING PLAN KEYED NOTES:

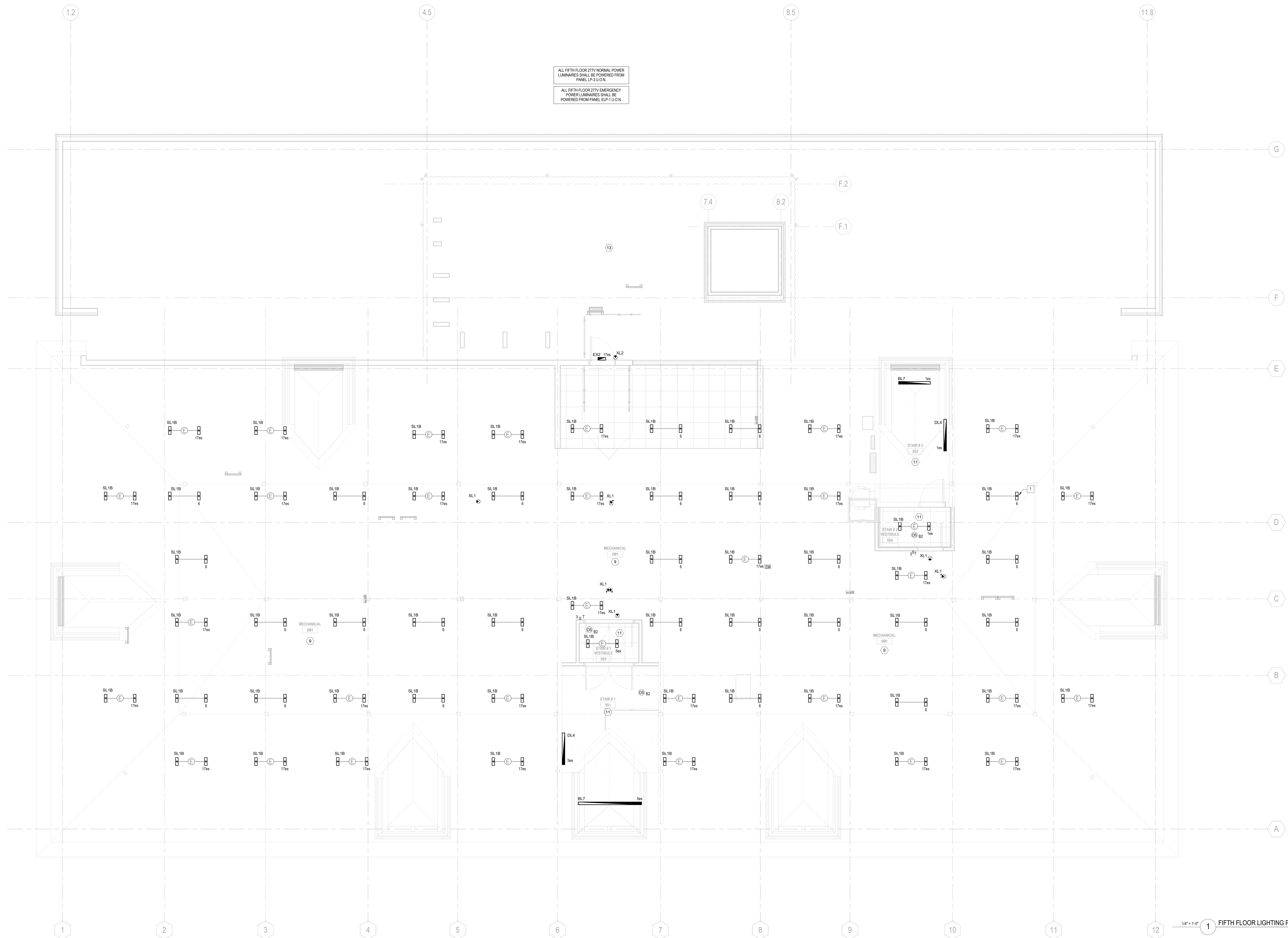
- BACK OF HOUSE LIGHT FIXTURE SL1B TO BE MOUNTED @ 15' A.F.F. CONTRACTOR TO COORDINATE LIGHT FIXTURE LOCATIONS AND MOUNTING HEIGHT WITH OTHER TRADES TO PROVIDE UNIFORM LIGHT LEVEL. PROVIDE ADDITIONAL FIXTURES WHERE NECESSARY IF DARK SPOTS OCCUR DUE TO OTHER TRADES EQUIPMENT OBSTRUCTING LIGHT OUTPUT.
 - ON PERIMETER SLOPED ROOF, SURFACE MOUNT LIGHT FIXTURES TO UNDERSIDE OF ROOF ON STRUCTURE.
- # - REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE EL501

GENERAL LIGHTING PLAN NOTES:

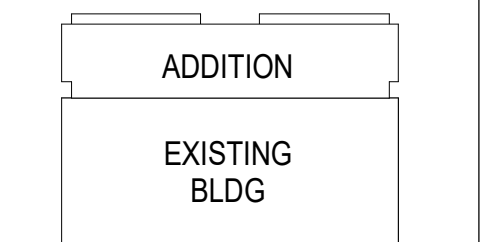
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
- FOR ADDITIONAL GENERAL LIGHTING PLAN NOTES, REFER TO SHEET EL101.

ALL FIFTH FLOOR 277V NORMAL POWER LUMINAIRES SHALL BE POWERED FROM PANEL LP-3 U.O.N.

ALL FIFTH FLOOR 277V EMERGENCY POWER LUMINAIRES SHALL BE POWERED FROM PANEL ELP-1 U.O.N.



KEYPLAN:



SCALE:

CONDITION OF USE

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11

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

ELECTRICAL

TITLE:

FIFTH FLOOR LIGHTING PLAN

NUMBER:

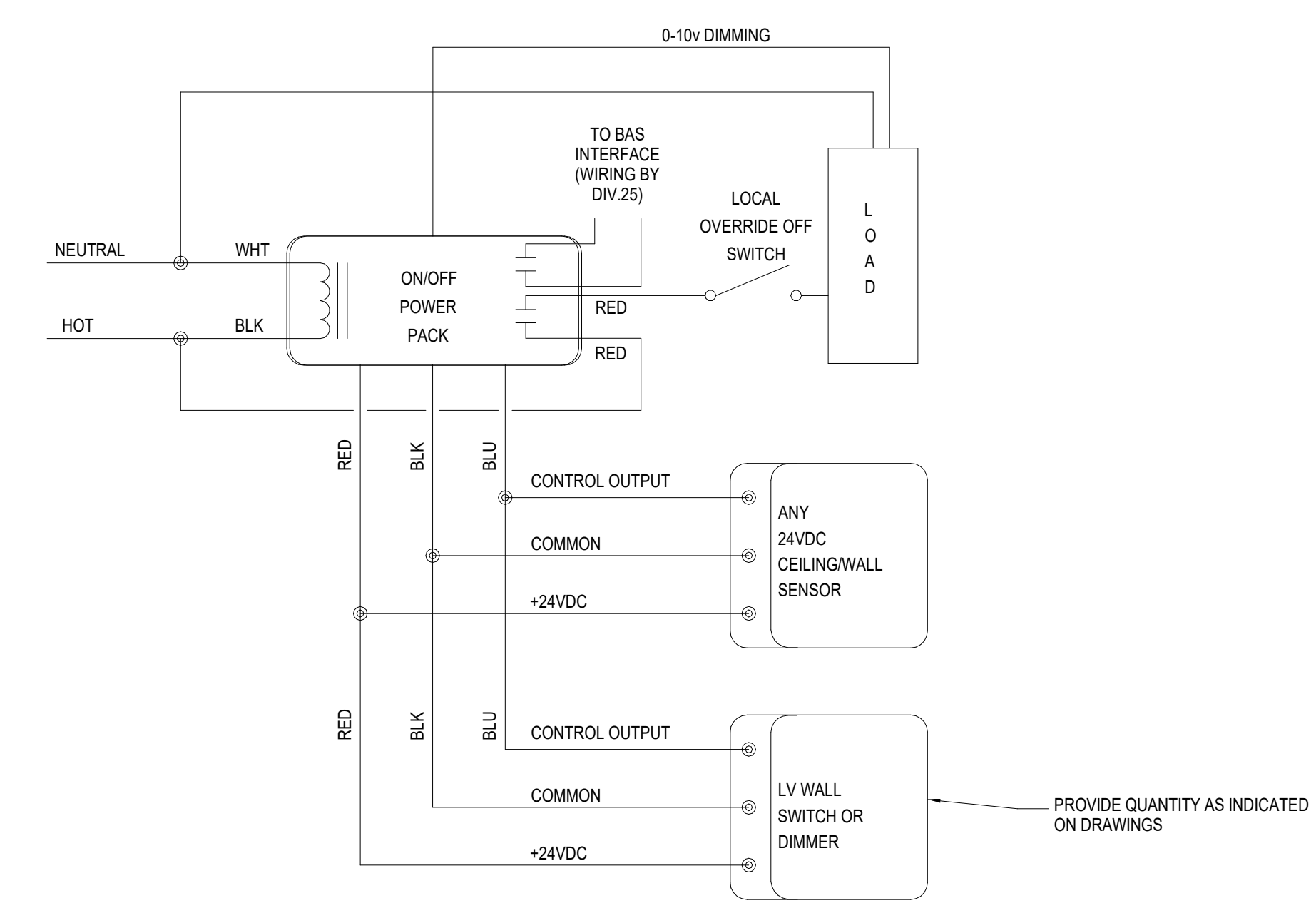
EL105

1/4" = 1'-0" 1 FIFTH FLOOR LIGHTING PLAN

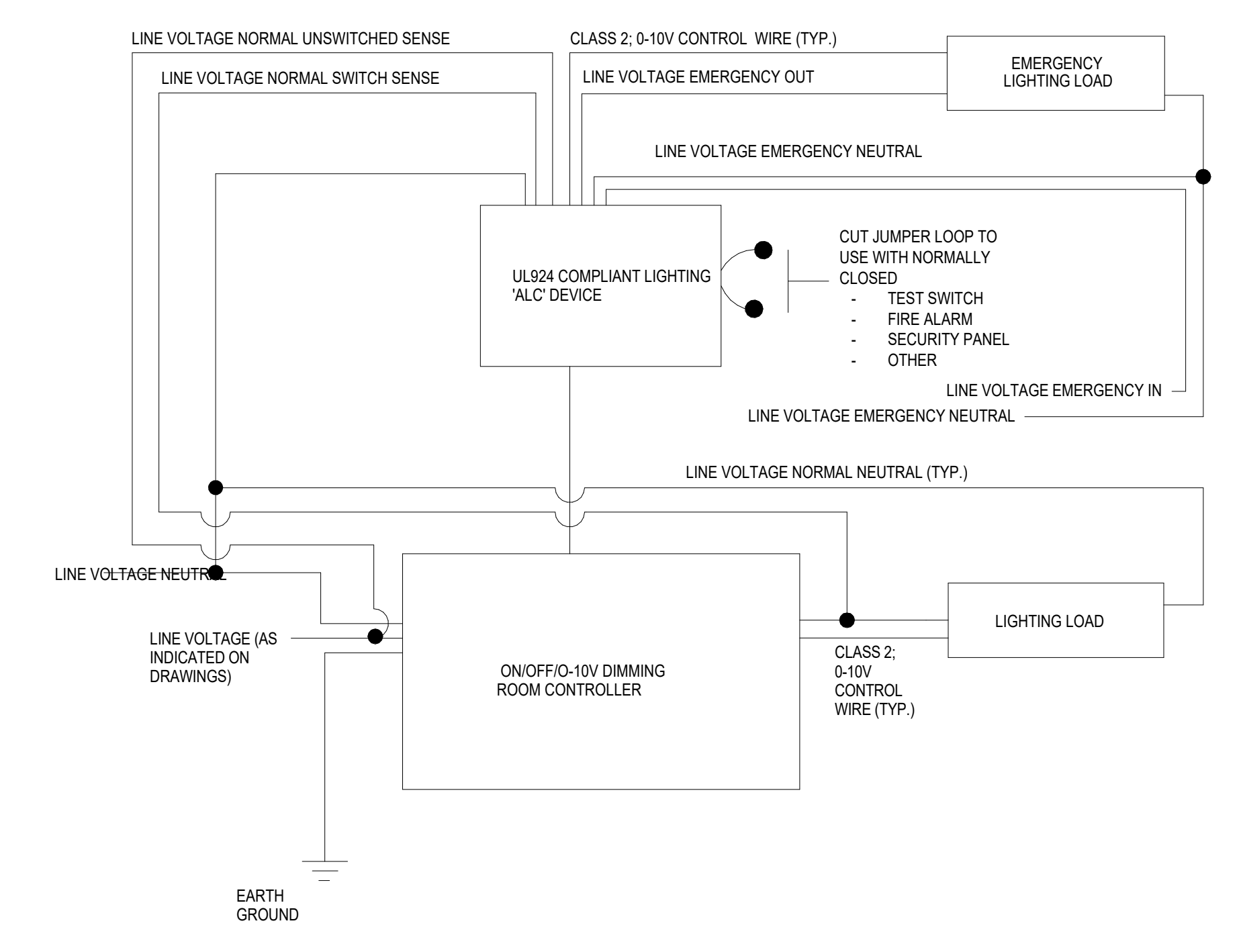
LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE						
SOO #	AREAS CONTROLLED	CONTROL DESCRIPTION	DAYTIME (OPERATING HOURS)	NIGHTTIME/ WEEKENDS (OFF-PEAK HOURS)	DIMMING	NOTES
1	SMALL STORAGE/ANITOR/ SMALL RESTROOM	VACANCY SENSOR SWITCH	ON/OFF- MANUAL VIA WALL SWITCH or OFF - AUTOMATICALLY BY VACANCY SENSOR WITHIN 20 MINUTES	SAME AS DAYTIME	-	1
2	CLASSROOM / LAB / COMPUTER ROOM / CONFERENCE	VACANCY SENSOR WITH DIMMING & DAYLIGHT DIMMING	ON/OFF- MANUAL VIA WALL SWITCH or OFF - AUTOMATICALLY BY VACANCY SENSOR WITHIN 20 MINUTES	SAME AS DAYTIME	LOW VOLTAGE DIGITAL SWITCH WITH RAISE/LOWER BUTTONS FOR EACH CONTROL ZONE.	1,2,3
3	CONFERENCE	VACANCY SENSOR WITH SCENE DIMMING & DAYLIGHT DIMMING WHERE SHOWN ON RCP'S	ON/OFF- MANUAL VIA WALL SWITCH or OFF - AUTOMATICALLY BY VACANCY SENSOR WITHIN 20 MINUTES	SAME AS DAYTIME	SCENE DIMMING SWITCH WITH RAISE/LOWER (TOUCHSCREEN WHERE SPECIFIED ON RCP)	1,2,3
4	COPY ROOM/STORAGE	VACANCY SENSOR (DIMMING WHERE SHOWN ON RCP)	ON/OFF- MANUAL VIA WALL SWITCH or OFF - AUTOMATICALLY BY VACANCY SENSOR WITHIN 20 MINUTES	SAME AS DAYTIME	LOW VOLTAGE SWITCH	-
5	ENCLOSED OFFICE	VACANCY SENSOR WITH DIMMING	ON/OFF- MANUAL VIA WALL SWITCH or OFF - AUTOMATICALLY BY VACANCY SENSOR WITHIN 20 MINUTES	SAME AS DAYTIME	LOW VOLTAGE SWITCH	1
6	OPEN OFFICE	TIME CLOCK WITH LOCAL OVERRIDE, PROVIDE DAYLIGHT DIMMING	ON - TIMECLOCK OFF - TIMECLOCK DIMMING: LOCAL LOW VOLTAGE DIMMING SWITCH IN ROOM	ON - VIA LOCAL DIMMING SWITCH FOR DURATION OF TIME NOT EXCEEDING 2HRS. OFF - NORMALLY OFF	LOW VOLTAGE DIGITAL RAISE/LOWER SWITCH IN ROOM	1,2,3
7	GENERAL CIRCULATION	TIME CLOCK WITH OCC. SENSOR AND/OR SWITCH OVERRIDE	ON - TIMECLOCK OFF - TIMECLOCK	ON - VIA OCC. SENSORS FOR DURATION OF TIME NOT EXCEEDING 20 MIN. OR VIA OVERRIDE SWITCH FOR DURATION OF TIME NOT EXCEEDING 2HR. OFF - NORMALLY OFF	SWITCH OVERRIDE LOCATED IN ELECTRICAL CLOSET EXCEPT IN RECEPTION 490 WHERE IT IS LOCATED LOCALLY.	1,3,4
8	MEN'S/WOMEN'S RESTROOMS	OCCUPANCY SENSOR WITH LOCAL OVERRIDE	ON - AUTOMATICALLY OFF - AUTOMATICALLY IN 15 MIN. OR BY WALL SWITCH	SAME AS DAYTIME	-	1
9	MECHANICAL/ELECTRICAL ROOMS	WALL TIMER SWITCH	ON - MANUAL VIA WALL SWITCH OFF - AUTOMATICALLY. LIGHTS OFF AFTER SELECTED DURATION OF TIME	SAME AS DAYTIME	-	1
10	ELEVATOR PIT/SHAFT	LINE VOLTAGE WALL SWITCH	ON - MANUAL VIA SWITCH OFF - MANUAL VIA SWITCH	SAME AS DAYTIME	-	-
11	STAIRWELL	INTEGRAL FIXTURE OCCUPANCY SENSOR AND/OR CEILING MOUNTED OCCUPANCY SENSOR	OCCUPIED - AUTOMATICALLY TO 100% OUTPUT NOT OCCUPIED - AUTOMATICALLY TO 50% OUTPUT	SAME AS DAYTIME	AUTOMATIC VIA OCCUPANCY SENSOR	-
12	BUILDING MOUNTED EXTERIOR LIGHTING	TIMECLOCK	ON/OFF - AUTOMATICALLY VIA PROGRAMMED SCHEDULE THROUGH BLISS RELAY PANEL. SCHEDULE SHALL COMPLY WITH ASHRAE 90.1 2013.	OFF - AUTOMATICALLY VIA PROGRAMMED SCHEDULE THROUGH BLISS RELAY PANEL.	-	4
13	BUILDING MOUNTED ROOF WELL LIGHTING	INTEGRAL FIXTURE PHOTOCELL & OCCUPANCY SENSOR	ON/OFF - AUTOMATICALLY VIA PHOTOCELL AND OCC. SENSOR.	SAME AS DAYTIME	-	-
R		OCCUPANCY CONTROLLED RECEPTACLES AS INDICATED ON POWER & SYSTEMS DRAWINGS				

NOTES:
 1 WHERE INDICATED ON DRAWINGS, PROVIDE UL 924 LISTED AUTOMATIC LOAD CONTROL RELAY (ALC) TO BYPASS CONTROLS AND PROVIDE 100% OUTPUT VIA EMERGENCY CIRCUIT INDICATED.
 2 PROVIDE AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS FOR SIDELIGHTING (PER ASHRAE 90.1 2013 EDITION) WHERE INDICATED ON DRAWINGS. REFER TO SPECIFICATION SECTION - 260936 MODULAR DIMMING CONTROLS
 3 CEILING SENSOR(S) SHALL PROVIDE OVERALL CONTROL FOR ALL ZONES WITHIN AREA. PROVIDE A SEPARATE SWITCH FOR EACH USER CONTROLLED ZONE AS INDICATED ON DRAWINGS.
 4 LIGHTING CONTROLLED BY BUILDING RELAY PANEL SYSTEM.

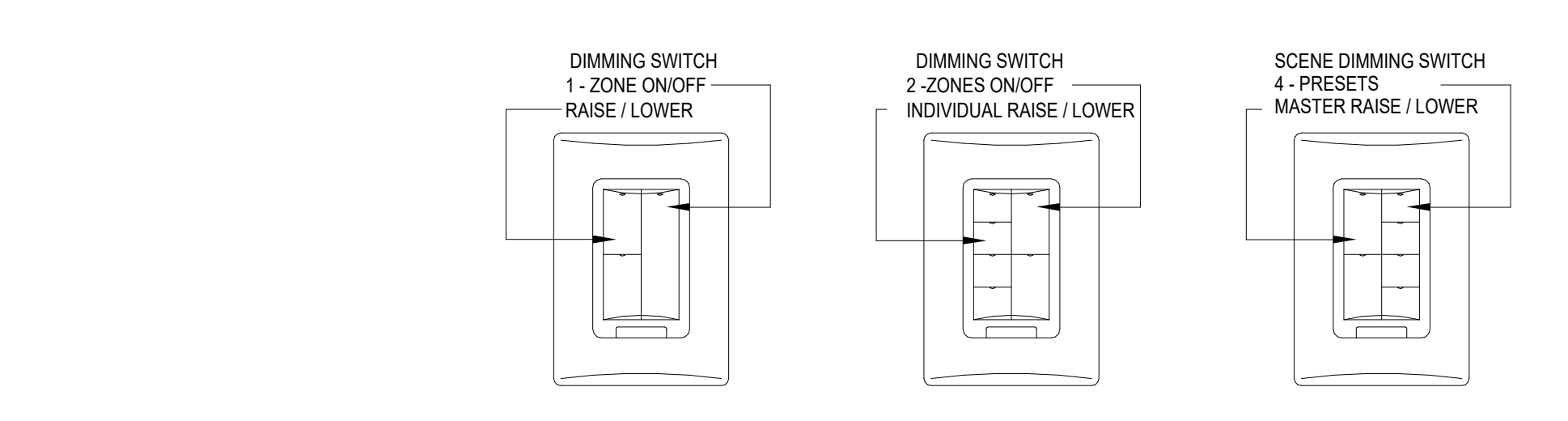
- REFER TO LIGHTING CONTROL SEQUENCE OF OPERATIONS SCHEDULE



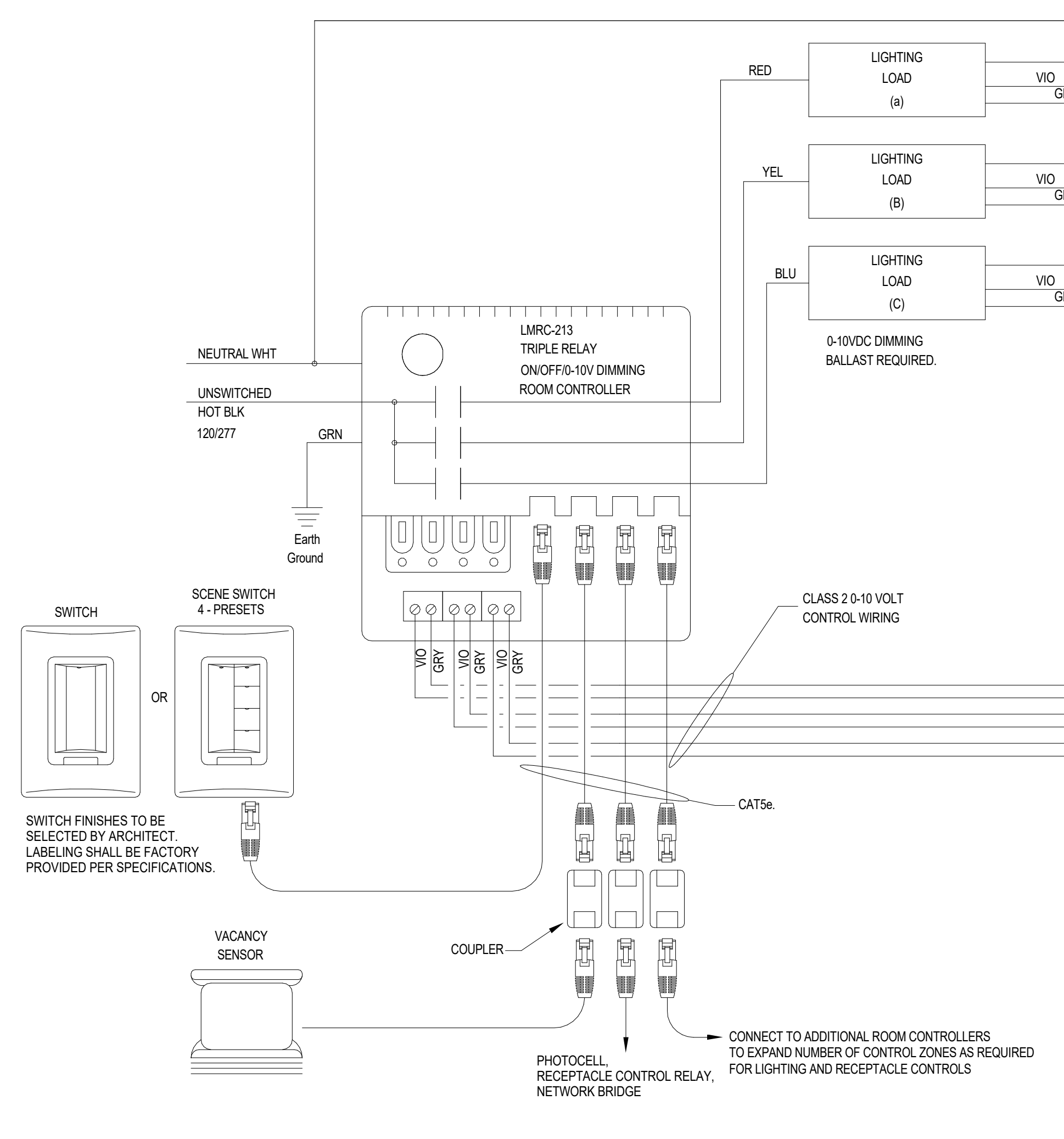
7 TYP. WIRING DIAGRAM FOR ON/OFF AND 0-10V DIMMING POWER PACK



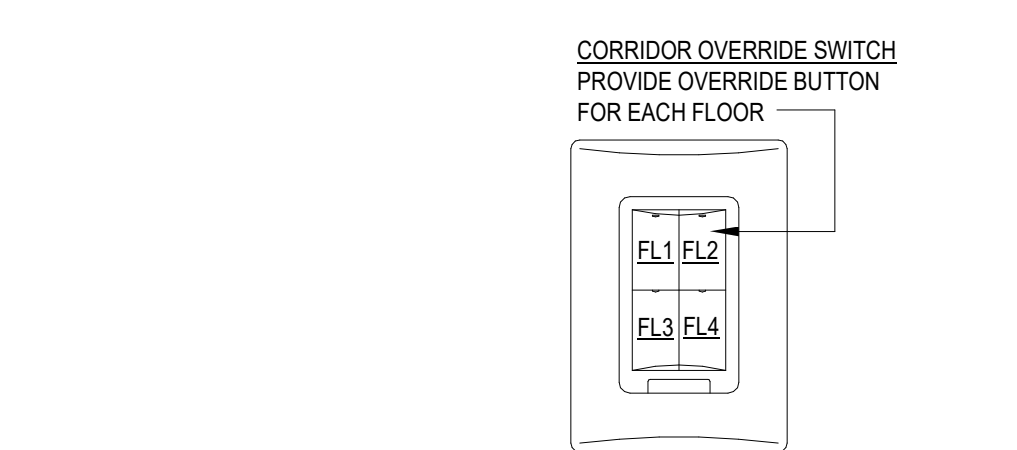
6 TYP. WIRING DIAGRAM FOR UL924 AUTOMATIC LOAD CONTROL 'ALC' DEVICE



8 TYP. DIMMING SWITCHES SEQUENCE OF OPERATIONS #2,3,4,5,6,8



5 ROOM CONTROLLER WIRING DIAGRAM



9 TYP. OVERRIDE SWITCH SEQUENCE OF OPERATIONS # 7

RELAY LCP-3 SCHEDULE			
RELAY #	PANEL	DESCRIPTION	SOO*
R1	LP-1	CORRIDOR 3C2	7
R2	LP-1	BUILDING MOUNTED EXTERIOR	13
R3	LP-1	COMMONS 1C1	7
R4	LP-1	VESTIBULE 1V1	7
R5	LP-1	CIRCULATION 2C2	7
R6	LP-1	CIRCULATION 2C1	7
R7	LP-1	SPARE	6
R8	LP-1	SPARE	6

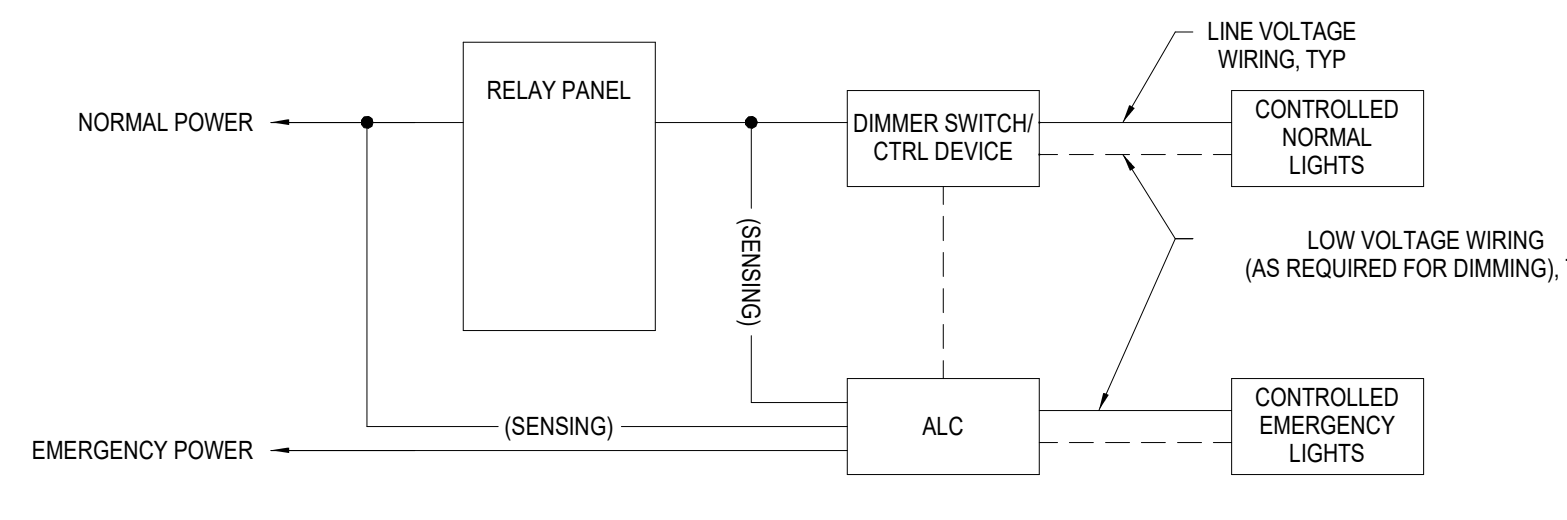
*SEQUENCE OF OPERATIONS (SOO)

RELAY LCP-3 SCHEDULE			
RELAY #	PANEL	DESCRIPTION	SOO
R1	LP-3	CIRCULATION 3C2	7
R2	LP-3	CIRCULATION 3C1	7
R3	LP-3	CIRCULATION 4C2	6
R4	LP-3	CIRCULATION 4C1	6
R5	LP-3	RECEPTION 490	6
R6	LP-3	SPARE	6
R7	LP-3	SPARE	6
R8	LP-3	SPARE	6

SEQUENCE OF OPERATIONS (SOO)

2 RELAY PANEL SCHEDULES

ALC RELAY DETAIL NOTES:
 1 PROVIDE ALC RELAY FOR EMERGENCY CIRCUITS THAT ARE CONNECTED TO A CONTROL DEVICE. MANUFACTURER (BASIS OF DESIGN) WATTSTOPPER ELCU SERIES.
 2 REFER TO MANUFACTURER'S REQUIREMENTS AND PUBLISHED WIRING DIAGRAMS/CONTROL SUBMITTAL FOR FULL SCOPE OF WORK.
 3 AN ALC USED ON DIMMABLE FIXTURES SHALL BYPASS DIMMING CONTROLS AND PROVIDE 100% OUTPUT DURING EMERGENCY MODE.



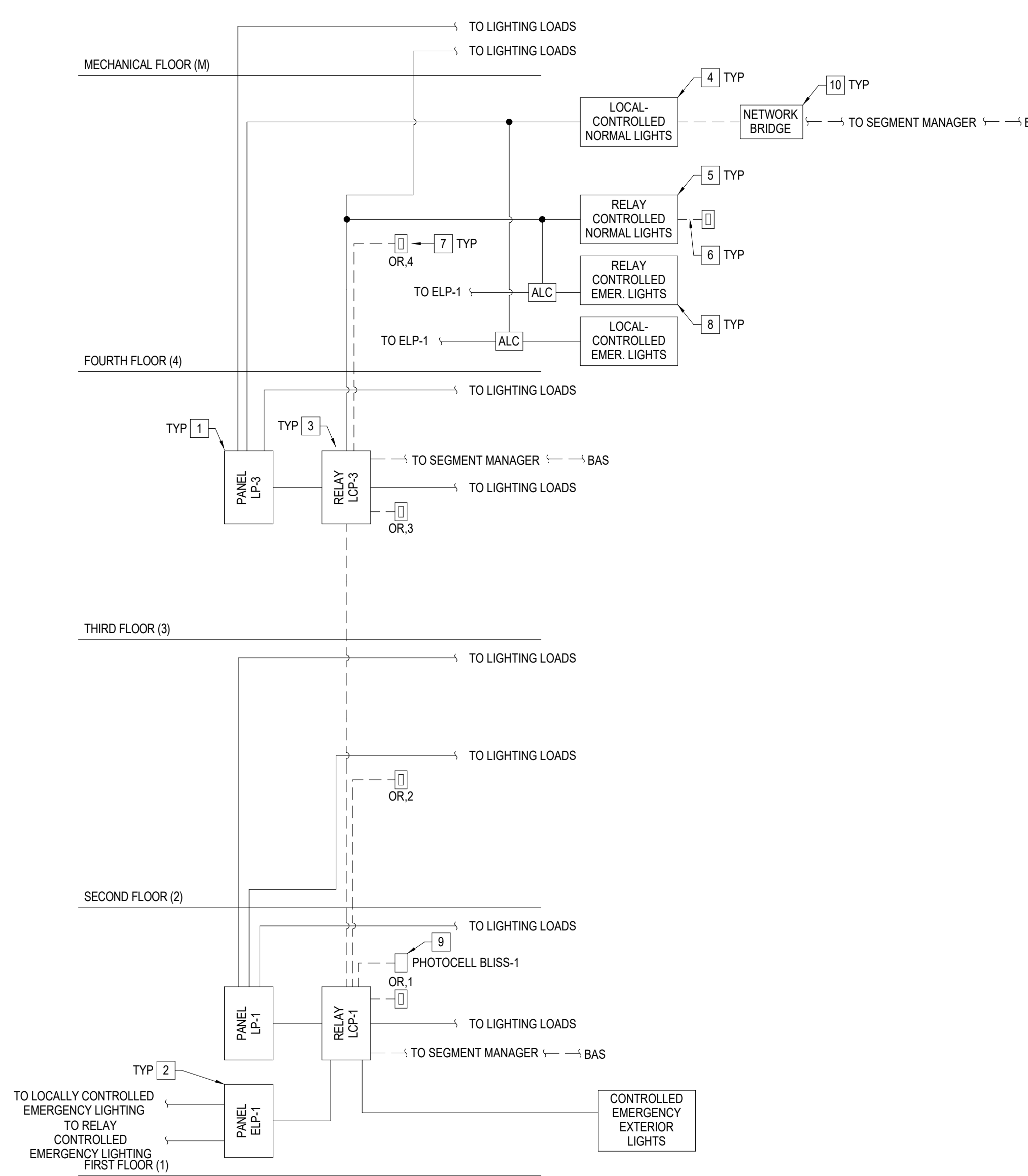
3 AUTOMATIC LOAD CONTROL (ALC) RELAY DETAIL

GENERAL LIGHTING CONTROL DIAGRAM NOTES:

- LIGHTING CONTROL DIAGRAM IS DIAGNOSTIC AND REPRESENTS THE GENERAL CONTROL INTENT USING WATTSTOPPER AS BASIS OF DESIGN. REFER TO MANUFACTURER'S REQUIREMENTS AND PUBLISHED WIRING DIAGRAMS/CONTROL SUBMITTAL FOR ENTIRE SCOPE OF WORK. PROVIDE ALL PARTS REQUIRED FOR A FULLY FUNCTION SYSTEM.
- THE RELAY LIGHTING CONTROL PANEL'S TIME CLOCK SHALL BE AUTONOMIC AND PROGRAMMABLE WITH 965 DAY/HOLIDAY SCHEDULING AND 24 HOUR BATTERY BACKUP. RELAYS SHALL BE NORMALLY CLOSED, MECHANICALLY HELD, SINGLE POLE, RATED 20AMPS.
- PROVIDE ADEQUATE NUMBER OF NETWORK BRIDGES AND OTHER NETWORKING DEVICES TO CREATE A FULLY NETWORKED LIGHTING CONTROL SYSTEM CAPABLE OF INTEGRATION WITH BAS FOR PROGRAMMING AND MONITORING LIGHTING.

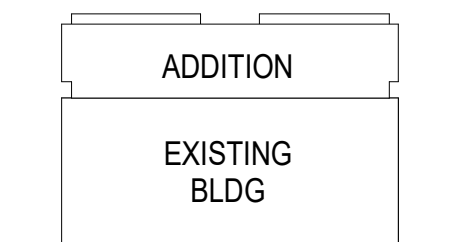
KEYED NOTES:

- NORMAL LIGHTING PANELBOARD.
- EMERGENCY LIGHTING PANELBOARD.
- NETWORKABLE RELAY LIGHTING CONTROL PANEL BY WATTSTOPPER, LOMP SERIES, OR EQUIVALENT. REFER TO RELAY PANEL SCHEDULES ON SHEET ELO02.
- PROVIDE LOCAL-CONTROLLED BRANCH CIRCUITS PER PANELBOARD SCHEDULES.
- PROVIDE RELAY CONTROLLED BRANCH CIRCUITS PER PANELBOARD AND RELAY LIGHTING CONTROL PANEL SCHEDULES.
- PROVIDE LOW VOLTAGE WIRING (AS REQUIRED FOR DIMMING) TO CONTROL DEVICES.
- OVERRIDE SWITCH (DIGITAL LIGHTING CONTROL SWITCHES). REFER TO SHEET EEL501 FOR FURTHER INFORMATION.
- FOR ADDITIONAL WIRING REQUIREMENTS, REFER TO DETAIL 3 ON THIS SHEET.
- PHOTOCELL FOR ON/OFF CONTROL OF EXTERIOR LIGHT FIXTURES.
- NETWORK BRIDGE CONNECTS WIRELESSLY TO ROUTER AND SEGMENT MANAGER.



1 LIGHTING RELAY CONTROL DIAGRAM

KEYPLAN



SEAL:

CONDITION OF USE

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070518 ISSUE 5

D R A W I N G I S S U E

PROJECT: 15085 11

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

ELECTRICAL

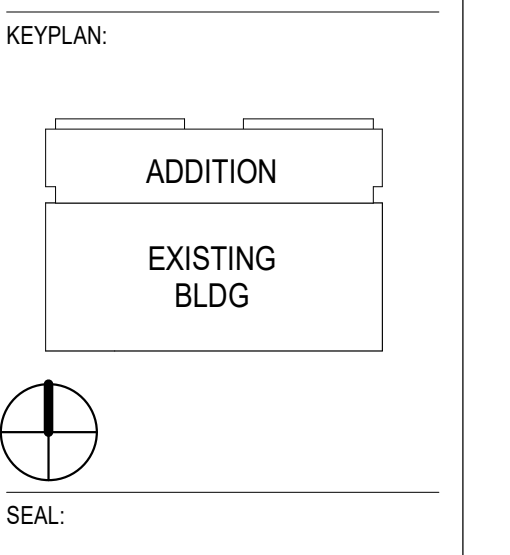
TITLE: LIGHTING SCHEDULES AND DETAILS

NUMBER:

EL501

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS		WATTAGE	INPUT VOLTAGE	ALTERNATE MANUFACTURERS	MOUNTING	REMARKS
				QUANTITY	TYPE					
AL1	LED 2 X 2 VOLUMETRIC TROFFER, 2-1/2 INCH RECESS DEPTH, CURVED RIBBED ACRYLIC CENTER LENS WITH ANGLED STEEL SIDE REFLECTOR, HIGH-REFLECTANCE WHITE PAINTED HOUSING, PROVIDE INTEGRAL OCCUPANCY SENSOR WITH PHOTOCCELL, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 3300 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, ESTIMATED 50,000 HOURS TO L70, 5-YEAR WARRANTY.	LITHONIA	2BLT2-33L-ADPT-EZ-1-LP835-MSDPDT7ADCX	-	LEDS BY MANUFACTURER	20	277	METALUX - OVATION SERIES COLUMBIA - LCAT SERIES	RECESSED	
AL3	LINEAR LED SLOT LIGHT WITH INTEGRAL DOWNLIGHTS, NOMINAL 3 INCH WIDE X 12 FOOT LONG X 5 INCH DEEP FORMED STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, FLUSH WHITE ACRYLIC LENS, LINEAR LIGHT SOURCE TO HAVE BATWING OPTICAL DISTRIBUTION, THREE (3) DOWNLIGHT MODULES LOCATED AT START, CENTER, AND END OF FIXTURE LENGTH WITH 40 DEGREE BEAM SPREAD OPTIC, PROVIDE (2) INTEGRAL 0-10V LED DRIVERS CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT, LINEAR LIGHT SOURCE AND DOWNLIGHT MODULES TO BE ON SEPARATE CIRCUITS. LED REQUIREMENTS FOR LINEAR SOURCE: NOMINAL 600 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY. LED REQUIREMENTS FOR DOWNLIGHT MODULE: NOMINAL 600 INITIAL DELIVERED LUMENS, 800 CENTERBEAM CANDLEPOWER, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	3901-L-B-G-Q-S-(CEILING)-12-(MOD TO 2-CIRCUIT)-2-E-(MOD WITH 3 INTEGRAL DOWNLIGHTS, 40 DEGREE, 800 LUMENS)	-	LEDS BY MANUFACTURER	LINEARS: 50 W DOWNLIGHTS: 45 W	277	CORONET - LSR3 MR SERIES	RECESSED	PRIOR TO RELEASE OF ORDER, CONTRACTOR TO PROVIDE THE FOLLOWING WITH THEIR SHOP DRAWINGS, SCALED PLANS AND SECTION DETAILS SHOWING LOCATION AND QUANTITY OF LAMPS, DETAILS SHOWING METHOD OF INSTALLATION, AND A COMPLETE BILL OF MATERIALS FOR REVIEW BY DESIGN PROFESSIONAL.
AL7	LINEAR LED SLOT LIGHT, NOMINAL 4 INCH WIDE X 6-1/2 INCH DEEP FORMED STEEL HOUSING WITH EXTRUDED ALUMINUM TRIM, PROVIDE LENGTHS AS SHOWN ON ARCHITECTURAL DRAWINGS, SATIN ACRYLIC LENS WITH 1 INCH REGRESS, INTEGRAL 0-10V LED DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 500 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	3900-L-B-G-L-S-(CEILING)-LENGTH]-7-2-E	-	LEDS BY MANUFACTURER	5W / FT.	277	CORONET - RAY4-R SERIES	RECESSED	
AL7A	SAME AS TYPE AL7, EXCEPT PROVIDE 700 INITIAL DELIVERED LUMENS PER FOOT.	LEDALITE	3900-L-B-E-L-S-(CEILING)-LENGTH]-7-2-E	-	LEDS BY MANUFACTURER	7W / FT.	277	CORONET - RAY4-R SERIES	RECESSED	
AL15	RECESSED LED PERIMETER SLOT LIGHT, NOMINAL 4 INCH APERTURE X 7-1/4 INCH MAXIMUM RECESS DEPTH EXTRUDED ALUMINUM HOUSING AND TRIM FLANGE, PROVIDE LENGTH OF LUMINAIRE FOR CONTINUOUS RUNS AS SHOWN ON DRAWINGS, PROVIDE TELESCOPING ENDS FOR WALL-TO-WALL RUN LENGTHS, SNAP-IN FROSTED ACRYLIC LENS WITH 4 INCH REGRESS, HIGH REFLECTANCE WHITE PAINTED REFLECTOR, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 500 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	4908-L-B-G-Q-S-(CEILING)-LENGTH]-7-2-E	-	LEDS BY MANUFACTURER	7W / FT.	277	MARK - SPR SERIES CORONET - PG4 SERIES	RECESSED	PRIOR TO RELEASE OF ORDER, CONTRACTOR TO PROVIDE THE FOLLOWING WITH THEIR SHOP DRAWINGS, SCALED PLANS AND SECTION DETAILS SHOWING LOCATION AND QUANTITY OF LAMPS, DETAILS SHOWING METHOD OF INSTALLATION, AND A COMPLETE BILL OF MATERIALS FOR REVIEW BY DESIGN PROFESSIONAL.
AL17	RECESSED 4 INCH DIAMETER LED DOWNLIGHT, NOMINAL 13 INCH WIDE X 4-1/2 INCH DEEP STEEL HOUSING, HIGH-TRANSMISSION OPAL LENS, CLEAR SEMI-SPECULAR ALUMINUM REFLECTOR AND TRIM FLANGE, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LIGHTOLIER	P4R-D-10-N-Z10-U-VB + P4R-D-8-35-VB + P4R-D-CC-P	-	LEDS BY MANUFACTURER	11	277	GOTHAM - EVO SERIES EDISON PRICE LIGHTING - FOUR XTM SERIES	RECESSED	
AL17A	SAME AS TYPE AL17, EXCEPT PROVIDE FIRE-RATED ENCLOSURE.	LIGHTOLIER	FIXTURE: P4R-D-10-N-Z10-U-VB + P4R-D-8-35-VB + P4R-D-CC-P FIRE-RATED ENCLOSURE: FN-Z-12-20-9	-	LEDS BY MANUFACTURER	11	277	GOTHAM - EVO SERIES EDISON PRICE LIGHTING - FOUR XTM SERIES	RECESSED	CONTRACTOR TO PROVIDE FIRE RATED ENCLOSURE WITH MINIMUM OF 3 INCHES OF CLEARANCE ON ALL SIDES OF FIXTURE HOUSING.
AL18	RECESSED 4 INCH DIAMETER LED LENSED WALLWASHER, NOMINAL 13 INCH WIDE X 4-1/2 INCH DEEP STEEL HOUSING, HIGH-TRANSMISSION OPAL LENS, CLEAR SEMI-SPECULAR ALUMINUM KICKER REFLECTOR AND TRIM FLANGE, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LIGHTOLIER	P4R-D-10-N-Z10-U-VB + P4R-D-8-35-VB + P4R-LW-CC-P	-	LEDS BY MANUFACTURER	11	277	GOTHAM - EVO SERIES EDISON PRICE LIGHTING - FOUR XTM WL SERIES	RECESSED	
BL1	LINEAR LED PENDANT, NOMINAL 3 INCH WIDE X 5 INCH TALL X LENGTHS AS INDICATED ON ARCHITECTURAL DRAWINGS, EXTRUDED ALUMINUM HOUSING, FLUSH WHITE ACRYLIC LENS, BATWING OPTICAL DISTRIBUTION, PROVIDE 48 INCH ADJUSTABLE AIRCRAFT CABLE, OVERALL FINISH TO BE SELECTED BY DESIGN PROFESSIONAL, PROVIDE INTEGRAL OCCUPANCY SENSOR AND PHOTOCCELL, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 800 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	2901-L-B-E-G-N-(LENGTH]-7-2-E-(FINISH]-SZ	-	LEDS BY MANUFACTURER	6W / FT.	277	CORONET - LS3 SERIES	PENDANT	BOTTOM OF PENDANT SUSPENDED 9'-0" ABOVE FINISHED FLOOR
BL6	LED PENDANT, NOMINAL 12 INCH DIAMETER X 8 INCH HIGH, CURVED ALUMINUM SHADE WITH OVERALL MATTE WHITE FINISH ON INTERIOR AND EXTERIOR, ROUND CANOPY WITH CHROME FINISH, FIXTURE MOUNTING HEIGHT TO BE COORDINATED WITH DESIGN PROFESSIONAL, PROVIDE 60 INCH ADJUSTABLE AIRCRAFT CABLE, INTEGRAL 0-10V DIMMING DRIVER CAPABLE OF DIMMING TO 10% LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 600 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR LIMITED WARRANTY.	EUREKA	4256-12-LED-35-277-DV-AC-60-RCA-CHR-WHM-WHM	-	LEDS BY MANUFACTURER	16	277	TECH LIGHTING LBL LIGHTING	PENDANT	
BL7	LINEAR LED SURFACE MOUNTED LUMINAIRE, NOMINAL 2 INCH WIDE X 4 INCH TALL X LENGTHS AS INDICATED ON ARCHITECTURAL DRAWINGS, EXTRUDED ALUMINUM HOUSING, FLUSH WHITE ACRYLIC LENS, OVERALL FINISH TO BE SELECTED BY DESIGN PROFESSIONAL, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 600 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	2211-L-B-G-L-N-(LENGTH]-7-2-E-(FINISH]	-	LEDS BY MANUFACTURER	6W / FT.	277	AXIS - BEAM 2 SERIES	SURFACE	
BL13	LINEAR LED SURFACE MOUNT WITH INTEGRAL DOWNLIGHTS, NOMINAL 3 INCH WIDE X 12 FOOT LONG X 5 INCH DEEP EXTRUDED ALUMINUM HOUSING, FLUSH WHITE ACRYLIC LENS, LINEAR LIGHT SOURCE TO HAVE BATWING OPTICAL DISTRIBUTION, THREE (3) DOWNLIGHT MODULES LOCATED AT START, CENTER, AND END OF FIXTURE LENGTH WITH 40 DEGREE BEAM SPREAD OPTIC, OVERALL FINISH TO BE SELECTED BY DESIGN PROFESSIONAL, PROVIDE (2) INTEGRAL 0-10V LED DRIVERS CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT, LINEAR LIGHT SOURCE AND DOWNLIGHT MODULES TO BE ON SEPARATE CIRCUITS. LED REQUIREMENTS FOR LINEAR SOURCE: NOMINAL 600 INITIAL DELIVERED LUMENS PER LINEAR FOOT, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY. LED REQUIREMENTS FOR DOWNLIGHT MODULE: NOMINAL 600 INITIAL DELIVERED LUMENS, 800 CENTERBEAM CANDLEPOWER, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LEDALITE	2911-L-B-G-Q-N-12-(MOD TO 2 DIMMING CIRCUITS)-2-E-(FINISH)-(MOD WITH 3 INTEGRAL DOWNLIGHTS WITH 40 DEGREE BEAM AND 800 LUMENS)	-	LEDS BY MANUFACTURER	LINEARS: 60 W DOWNLIGHTS: 45 W	277	CORONET - LS3 MR SERIES	PENDANT	PRIOR TO RELEASE OF ORDER, CONTRACTOR TO PROVIDE THE FOLLOWING WITH THEIR SHOP DRAWINGS, SCALED PLANS AND SECTION DETAILS SHOWING LOCATION AND QUANTITY OF LAMPS, DETAILS SHOWING METHOD OF INSTALLATION, AND A COMPLETE BILL OF MATERIALS FOR REVIEW BY DESIGN PROFESSIONAL.



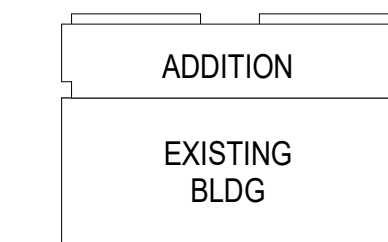
CONDITION OF USE
WHEN THIS DOCUMENT IS ISSUED TO THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED THEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED THEREIN AND FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED THEREIN AND FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE INFORMATION CONTAINED THEREIN AND FOR THE COMPLETION OF THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

070518 ISSUE 5
DRAWING ISSUE
PROJECT: 15085 11
SCALE:
ELECTRICAL

TITLE:
LIGHTING FIXTURE SCHEDULE

NUMBER:
EL601

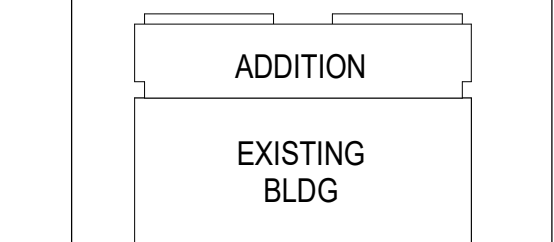
BL17	LED CYLINDER PENDANT, NOMINAL 2 INCH DIAMETER APERTURE, MAXIMUM 3-1/8 INCH DIAMETER X NOMINAL 5-1/2 INCH HIGH ALUMINUM HOUSING, PROVIDE LENGTH OF RIGID STEM AS REQUIRED FOR MOUNTING FIXTURE WITHIN OPEN CELL CEILING SYSTEM, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, 55° BEAM SPREAD OPTICS, FIXTURE HOUSING TO HAVE MATTE WHITE PAINT FINISH, PROVIDE WHITE OR GREY CORD, PROVIDE SURFACE-MOUNTED GEAR BOX PAINTED CHARCOAL GREY, INTEGRAL 0-10V LED DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 1,000 INITIAL DELIVERED LUMENS, 1,000 CENTERBEAM CANDLEPOWER, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	GOTHAM	ICO CYL-35/10-2AR-LSS-55D-MVOLT-UGZ-PMSG-DWHG + CYKS XXFT	-	LEDS BY MANUFACTURER	13	277	LUCIFER - CY2 SERIES	PENDANT	BOTTOM OF PENDANT TO ALIGN WITH BOTTOM OF CEILING
BL18	LED CYLINDER WALLWASH PENDANT, NOMINAL 2 INCH DIAMETER APERTURE, MAXIMUM 3-1/8 INCH DIAMETER X NOMINAL 5-1/2 INCH HIGH ALUMINUM HOUSING, PROVIDE LENGTH OF RIGID STEM AS REQUIRED FOR MOUNTING FIXTURE WITHIN OPEN CELL CEILING SYSTEM, SEMI-SPECULAR CLEAR ALZAK REFLECTOR, FIXTURE HOUSING TO HAVE MATTE WHITE PAINT FINISH, PROVIDE WHITE OR GREY CORD, PROVIDE SURFACE-MOUNTED GEAR BOX PAINTED CHARCOAL GREY, INTEGRAL 0-10V LED DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	GOTHAM	ICO CYLLW-35/10-2AR-LSS-MVOLT-UGZ-PMSG-DWHG + CYKS XXFT	-	LEDS BY MANUFACTURER	13	277	LUCIFER - CY2 SERIES	PENDANT	BOTTOM OF PENDANT TO ALIGN WITH BOTTOM OF CEILING
DL2	LED LINEAR SURFACE MOUNTED LUMINAIRE, NOMINAL 5 INCH WIDE X 2 FOOT LONG X 3-1/2 INCH DEEP STEEL HOUSING, RIBBED ACRYLIC LENS, INTEGRAL OCCUPANCY SENSOR, OVERALL WHITE PAINT FINISH, INTEGRAL DRIVER CAPABLE OF DIMMING TO 1% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 2,100 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LITHONIA	WL2-22L-EZ1-LP835-MSD7	-	LEDS BY MANUFACTURER	21	277	COLUMBIA - LBLI SERIES H.E. WILLIAMS - SLF SERIES	WALL	
DL3	DECORATIVE WALL MOUNTED ADA-COMPLIANT SCONCE, NOMINAL 5 INCHES WIDE X 24 INCHES TALL X 2-1/2 INCH DEEP CAST ALUMINUM FRAME, EDGE-LIT MATTE POLYCARBONATE DIFFUSER, WALL BACKLIGHT, FULLY GASKETED, OVERALL FINISH AND DECORATIVE OUTER LENS TO BE SELECTED BY DESIGN PROFESSIONAL, INTEGRAL 0-10V DRIVER CAPABLE OF DIMMING TO 5% OF LIGHT OUTPUT. LED REQUIREMENTS: NOMINAL 900 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	KENALL	LPSS-V-(OUTER LENS)-(FINISH)-18L35K-OCC-DV	-	LEDS BY MANUFACTURER	23	277	SHAPER - 60S SERIES	WALL	
DL4	LED LENSED STRIPLIGHT, NOMINAL 5 INCH DEEP X 3-1/2 INCH DEEP X 4-FOOT LONG EXTRUDED ALUMINUM HOUSING, FLAT END CAPS, NOMINAL 0.156" THICK HIGH-IMPACT FROSTED POLYCARBONATE LENS, LENS FULLY GASKETED TO LUMINAIRE HOUSING, PROVIDE TAMPER-RESISTANT CAPTIVE DIFFUSER FASTENERS, OVERALL WHITE PAINTED FINISH, PROVIDE INTEGRAL MOTION SENSOR WITH STEP DIMMING TO 30% OF LIGHT OUTPUT WHEN NO OCCUPANCY IS DETECTED. LED REQUIREMENTS: NOMINAL 4,700 INITIAL DELIVERED LUMENS, 3500K CCT, 80+ CRI, 50,000 HOUR LIFE TO L70, 5-YEAR WARRANTY.	KENALL	MLHAS-48-F-(FINISH)-PP-45L35K-OCC-1-DV-(MS DIM TO 30%)	-	LEDS BY MANUFACTURER	45	277	COLUMBIA - LBLI SERIES H.E. WILLIAMS - SLF SERIES	WALL	
DL17	LINEAR LED UNDERCABINET LIGHT, 1-1/2 INCH TALL X 4-1/2 INCH WIDE, LENGTHS AS SHOWN ON DRAWINGS, ACRYLIC LENS, OVERALL WHITE PAINT FINISH, INTEGRAL OCCUPANCY SENSOR, INTEGRAL LED DRIVER. LED REQUIREMENTS: NOMINAL 400 INITIAL DELIVERED LUMENS PER FOOT, 3500K CCT, 80+ CRI, 50,000 HOUR LIFE TO L70, 5-YEAR WARRANTY.	KENALL	AUCLED-S-MW-XX35K-(LENGTH)-277-MS	-	LEDS BY MANUFACTURER	5W / FT.	277	TECH LIGHTING - UNILUME SLIMLINE SERIES H.E. WILLIAMS - 1SF SERIES	UNDERCABINET	
EX1	EXISTING GLOBE FIXTURE WITH NEW LED LAMPING, CONTRACTOR TO PROVIDE LAMP TYPE COMPATIBLE WITH EXISTING LAMP BASE. LED REQUIREMENTS: NOMINAL 500 INITIAL DELIVERED LUMENS, 3000K CCT, 80+ CRI.	-	-	-	TBD	-	-	-	-	VERIFY VOLTAGE OF EXISTING LAMP SOCKETS AND WIRING, IF NECESSARY, REPLACE WITH COMPONENTS RATED FOR 277V OPERATION.
EX2	SURFACE MOUNTED EXTERIOR WALL SCONCE	LITHONIA	WST LED P1 40K VW 277 PIR1FC3V	-	LEDS BY MANUFACTURER	13	277	COOPER	SURFACE	
LL2	LED LINEAR ACCENT LIGHT, MAXIMUM 1-1/2 INCH WIDE X 1-1/2 INCH TALL X 3 FOOT LONG EXTRUDED ALUMINUM HOUSING, UV-PROTECTED OPAL ACRYLIC LENS, IMPACT-RESISTANT MARINE-GRADE HOUSING, OVERALL FINISH TO BE SILVER, PROVIDE CABLE FEED THROUGH END CAPS, REMOTE 0-10V LED POWER SUPPLY TO BE MOUNTED IN CONCEALED, ACCESSIBLE AND VENTILATED LOCATION, PROVIDE POWER LEADS AND CONNECTING LEADS AS REQUIRED FOR FULLY-OPERATIONAL AND CODE-COMPLIANT INSTALLATION, U.L. WET-LOCATION LISTED. LED REQUIREMENTS: NOMINAL 1,000 INITIAL DELIVERED LUMENS, 3500K CCT, MINIMUM 80 CRI, 50,000 HOURS TO L70, 5 YEAR WARRANTY.	LED LINEAR	XOOLUM HYD-HD25-W8-27-36-S-NA-FS-IP67	-	LEDS BY MANUFACTURER	23	277	NO APPROVED EQUALS	SURFACE	
LL4	LED WALL-MOUNTED FLOODLIGHT, DOUBLE HEADED, NOMINAL 2 INCH DIAMETER X 4-1/2 INCH LONG ALUMINUM HOUSING WITH 1 INCH REGRESSED SOFT FOCUS GLASS LENS AND 20-DEGREE BEAM OPTICS, PROVIDE HONEYCOMB LOUVER, MOUNT TO NOMINAL 2 INCH DIAMETER X 3 INCH HIGH ANCHOR BASE, OVERALL FINISH TO BE SELECTED BY DESIGN PROFESSIONAL, REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT INFORMATION, U.L. WET LOCATION LISTED, TRANSFORMER IS INTEGRAL TO FIXTURE HOUSING LED REQUIREMENTS: NOMINAL 900 INITIAL DELIVERED LUMENS, 3000K CCT, 2,500 CENTERBEAM CANDLEPOWER, 80+ CRI, 50,000 HOURS TO L70, 5...	BK LIGHTING	LUMINAIRE-AR-LED-RA-X63-SP-(PREMIUM FINISH)-12-B-3 POWER SUPPLY, INTEGRAL WITH FIXTURE	-	LEDS BY MANUFACTURER	10	277	NO APPROVED EQUALS	WALL	FIXTURE HAS TWO LUMINAIRE HEADS MOUNTED ON FIXTURE BACK BOX.
SL1B	PENDANT LINEAR LED	LITHONIA	SBL4 4800LM 80CRI 40K NO DIM MVOLT	-	LEDS BY MANUFACTURER	40.5	277		PENDANT	
SL1BE	PENDANT LINEAR LED W/LOCAL BATTERY BACKUP	LITHONIA	SBL4 4800LM 80CRI 40K NO DIM MVOLT EL14L	-	LEDS BY MANUFACTURER	40.5	277		PENDANT	PROVIDE EMERGENCY BATTERY BALLAST BACKUP
SL2B	SURFACE MOUNT LINEAR LED	LITHONIA	SBL4 4800LM 80CRI 40K NO DIM MVOLT	-	LEDS BY MANUFACTURER	40.5	120/277		SURFACE	
XL1	CLEAR PLASTIC LED EXIT SIGN, PROVIDE MOUNTING, ARROWS, AND FACES AS INDICATED ON DRAWINGS	SURE-LIGHTS	ES6 - [AS INDICATED ON DRAWINGS] -WH	-	LEDS BY MANUFACTURER	4.5	277		AS INDICATED ON DRAWINGS	
XL2	EXTERIOR LED EXIT SIGN, BACKMOUNT	LIGHTING SERVICES INC.	LV-S-W-1-R-277	-	LEDS BY MANUFACTURER	4.5	277		SURFACE MOUNT	



GENERAL NOTES

- 1 ALL LIGHTING FIXTURES, LAMPS AND RELATED DEVICES FURNISHED UNDER THIS CONTRACT SHALL CARRY THE APPROVAL LABEL OF UL OR ETL FOR THE SPECIFIC APPLICATION IN WHICH THEY ARE USED.
- 2 THE STATEMENT "FINISH TO BE SELECTED BY DESIGN PROFESSIONAL" SHALL BE INTERPRETED TO MEAN THAT THE FINISH OF THE LUMINAIRE SHALL MATCH THE APPEARANCE OF A PAINT CHIP, COLOR NUMBER, OR METAL SWATCH FURNISHED BY THE DESIGN PROFESSIONAL DURING THE SUBMITTAL REVIEW PROCESS.
- 3 WHITE L.E.D.'S SHALL MEET, AT A MINIMUM, CHROMATICITY STANDARDS SET BY ANSINEMAJANSLG C79.377-2015. L.E.D. LUMEN MAINTENANCE SHALL BE MEASURED IN ACCORDANCE WITH IESNA LM-80 STANDARDS. PHOTOMETRIC TESTING FOR SOLID STATE LUMINAIRES SHALL BE IN ACCORDANCE WITH IESNA LM-79 STANDARDS.
- 4 CONTRACTOR SHALL CONFIRM FIXTURE VOLTAGES, CEILING TRIMS, AND MOUNTING HARDWARE ARE COMPATIBLE WITH THEIR APPLICATION AS DETERMINED BY THE DESIGN PROFESSIONAL PRIOR TO ORDERING FIXTURES.
- 5 CONTRACTOR SHALL SELECT, FURNISH AND INSTALL THE CORRECT SIZE OF SECONDARY WIRING FROM REMOTE TRANSFORMERS AND/OR REMOTE BALLASTS AS REQUIRED TO KEEP VOLTAGE DROP IN THE SECONDARY WIRING BELOW 3% OF RATED VOLTAGE.
- 6 ALL DIMMABLE L.E.D. LAMPS SHALL BE BURNED CONTINUOUSLY FOR 100 HOURS PRIOR TO FOCUSING OF FIXTURES AND COMMISSIONING OF CONTROL SYSTEMS.
- 7 CONTRACTOR SHALL PROVIDE LABOR AND EQUIPMENT FOR FOCUSING OF ADJUSTABLE FIXTURES AND PRESETTING OF LIGHTING CONTROL SYSTEMS. FOCUSING AND PRESETTING SHALL BE DONE IN THE PRESENCE OF THE DESIGN PROFESSIONAL. CONTRACTOR SHALL FOCUS LIGHTING AFTER DARK IF DIRECTED BY THE OWNER'S REPRESENTATIVE. UNLESS OTHERWISE NOTED, CONTRACTOR SHALL PROVIDE AT LEAST ONE DAY OF A FACTORY-TRAINED AND CERTIFIED TECHNICIAN TO PROVIDE WARRANTY START UP AND PROGRAMMING FOR ALL LIGHTING CONTROL SYSTEMS AND PROGRAMMABLE LIGHTING FIXTURES.
- 8 CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH THEIR BID:
 - A. THE UNIT PRICE, WITHOUT LAMP, FOR EACH LIGHTING FIXTURE TYPE LISTED WITHIN THE LIGHTING FIXTURE SCHEDULE. THE UNIT PRICE SHALL BE FOR ONE OF THE LISTED MANUFACTURER'S FOR THAT PARTICULAR FIXTURE. THE MANUFACTURER SHALL BE IDENTIFIED. SUBSTITUTIONS FOR FIXTURES PROVIDED BY MANUFACTURERS NOT LISTED IN THE SCHEDULE ARE NOT ACCEPTABLE. SEE BELOW FOR REQUIREMENTS ASSOCIATED WITH SUBMITTING LIGHTING FIXTURE SUBSTITUTIONS.
 - B. THE TOTAL QUANTITY OF EACH FIXTURE TYPE WITH THE EXTENDED COST FOR THAT QUANTITY.
 - C. THE UNIT PRICE, TYPE, AND QUANTITY OF LAMPS.
- 9 WITHIN 21 DAYS OF CONTRACT AWARD, THE CONTRACTOR SHALL FURNISH SUBMITTALS FOR ALL SPECIFIED LIGHTING FIXTURES FOR REVIEW BY THE DESIGN PROFESSIONAL. THE SUBMITTALS SHALL INCLUDE LUMINAIRE CATALOG CUTS, SUBMITTAL SHEETS, OR MANUFACTURERS SHOP DRAWINGS INDICATING THE FOLLOWING:
 - A. MANUFACTURER'S NAME AND COMPLETE CATALOG NUMBER
 - B. FIXTURE TYPE, DIMENSIONS AND FINISHES
 - C. FIXTURE PHOTOMETRIC TEST DATA FROM AN INDEPENDENT TEST LABORATORY
 - D. FIXTURE ACCESSORIES, COMPONENTS, AND HARDWARE WHEN SPECIFIED
 - E. LAMP TYPE, QUANTITY, WATTAGE, LUMEN OUTPUT, RATED LIFE, COLOR TEMPERATURE, COLOR RENDERING INDEX AND BEAM SPREAD AS APPLICABLE
 - F. BALLAST TYPE AND FIXTURE VOLTAGESUBMITTALS FOR LIGHTING FIXTURES MOUNTED WITHIN ARCHITECTURAL COVES OR CASEWORK, VARIABLE LENGTH FIXTURES, AND FOR NON-STANDARD, OR CUSTOM FIXTURES, SHALL ALSO INCLUDE SCALED DRAWINGS SHOWING THE LAYOUT AND DIMENSIONS OF ALL FIXTURE COMPONENTS AND ACCESSORIES, THE METHOD OF INSTALLATION, AND A COMPLETE BILL OF MATERIALS.
- 10 LIGHTING FIXTURE SUBSTITUTION REQUESTS MUST BE SENT TO AND RECEIVED BY THE LIGHTING DESIGNER FOR REVIEW 14 DAYS PRIOR TO BID DATE. FAILURE TO SUBMIT WITHIN THIS DEADLINE SHALL CONSTITUTE A GUARANTEE THAT THE SPECIFIED FIXTURES WILL BE SUPPLIED. THE SUBMITTAL SHALL INCLUDE THE FOLLOWING:
 - A. SIX HARD COPIES OF THE SUBMITTALS REQUIRED ABOVE FOR BOTH THE SPECIFIED FIXTURE AND THE PROPOSED SUBSTITUTION.
 - B. ONE NON-RETURNABLE WORKING SAMPLE OF THE PROPOSED SUBSTITUTE FIXTURE WITH CORD & PLUG CONNECTION FOR 120 VOLT OPERATION, AND SPECIFIED LAMP(S).
 - C. CONTRACTOR'S STATEMENT INDICATING THE EFFECT OF THE SUBSTITUTION ON THE CONSTRUCTION SCHEDULE COMPARED TO THE SCHEDULE WITHOUT THE APPROVAL OF THE PROPOSED SUBSTITUTION.
 - D. CONTRACTOR'S CERTIFICATION STATING THAT THE PROPOSED SUBSTITUTION CONFORMS TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS IN EVERY RESPECT AND IS APPROPRIATE FOR THE APPLICATIONS INDICATED IN THE DOCUMENTS.
 - E. CONTRACTOR'S CERTIFICATION STATING THAT ANY MODIFICATIONS TO ANY BUILDING SYSTEM OR EQUIPMENT THAT MAY RESULT FROM THE PROPOSED LIGHTING FIXTURE SUBSTITUTION WILL BE DESIGNED AND CONSTRUCTED AT THE CONTRACTOR'S EXPENSE.
 - F. CONTRACTOR'S WAIVER OF RIGHTS TO ADDITIONAL PAYMENT OR TIME THAT MAY BECOME NECESSARY SHOULD THE PROPOSED SUBSTITUTION FAIL TO PERFORM IN A MANNER THAT MATCHES THE SPECIFIED FIXTURE.
 - G. CONTRACTOR-NET UNIT PRICE FOR THE SPECIFIED FIXTURE AND FOR THE PROPOSED SUBSTITUTE FIXTURE.

KEYPLAN



SEAL:

CONDITION OF USE

WHEN THIS DOCUMENT IS SUPPLIED TO OTHER MEMBERS OF CONTRACTOR, ARCHITECT OR ENGINEER FROM THE SUBMITTAL SET OF THE INFORMATION CONTAINED IN THIS DOCUMENT IS SUBJECT TO THE CONDITIONS OF THE AGREEMENT BETWEEN THE CONTRACTOR AND ARCHITECT AND ENGINEER. CONTRACTOR MAY MAKE ELECTRONIC FILED OF THE DOCUMENT AVAILABLE TO SUBMITTALS TO THE GOVERNMENT FOR THE PROJECT.

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE:

ELECTRICAL

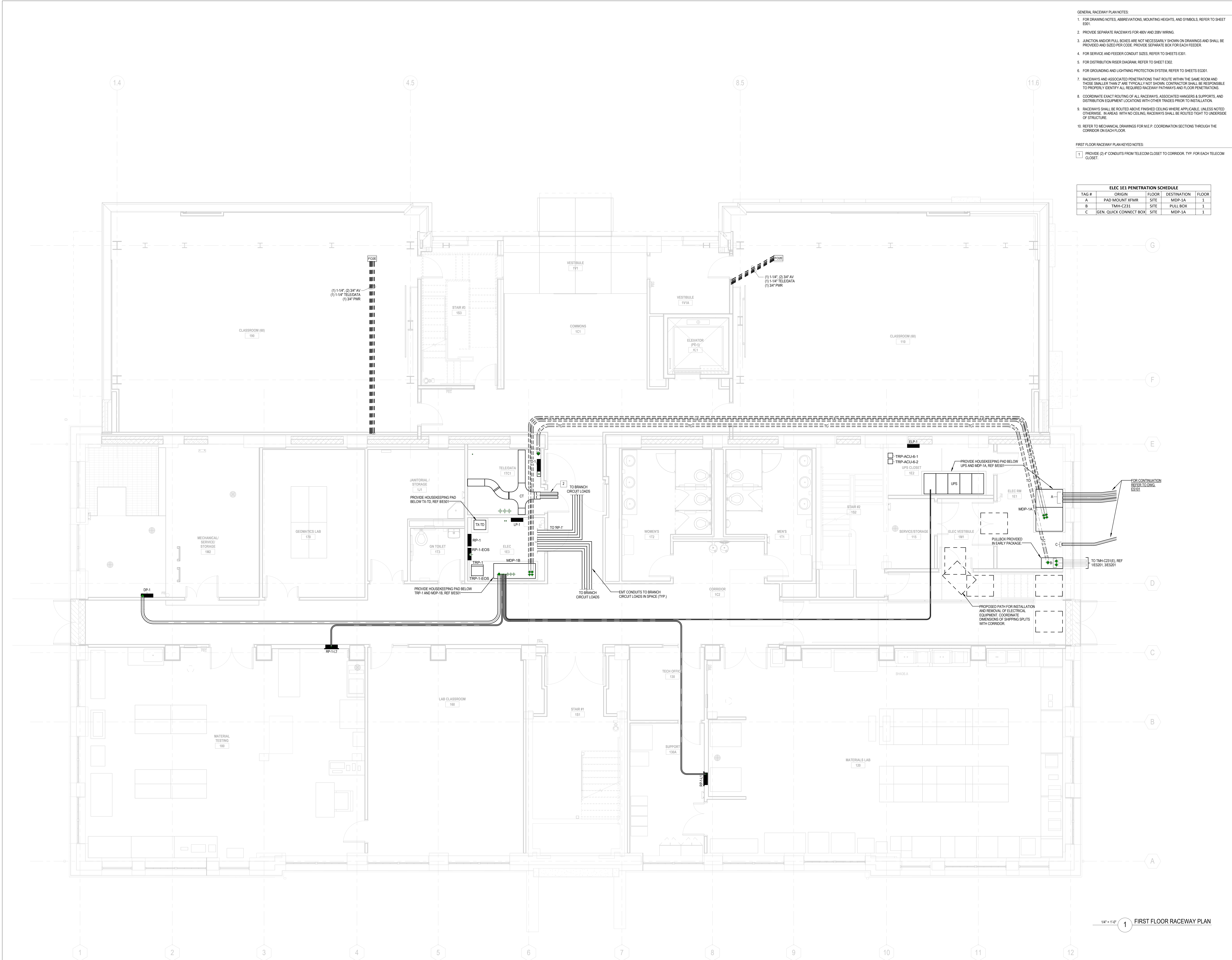
TITLE:
LIGHTING FIXTURE SCHEDULE

NUMBER:
EL603

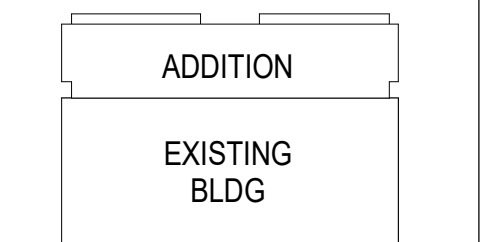
- GENERAL RACEWAY PLAN NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 - PROVIDE SEPARATE RACEWAYS FOR 480V AND 208V WIRING.
 - JUNCTION AND/OR PULL BOXES ARE NOT NECESSARILY SHOWN ON DRAWINGS AND SHALL BE PROVIDED AND SIZED PER CODE. PROVIDE SEPARATE BOX FOR EACH FEEDER.
 - FOR SERVICE AND FEEDER CONDUIT SIZES, REFER TO SHEETS E301.
 - FOR DISTRIBUTION RISER DIAGRAM, REFER TO SHEET E302.
 - FOR GROUNDING AND LIGHTNING PROTECTION SYSTEM, REFER TO SHEETS E031.
 - RACEWAYS AND ASSOCIATED PENETRATIONS THAT ROUTE WITHIN THE SAME ROOM AND THOSE SMALLER THAN 2" ARE TYPICALLY NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE TO PROPERLY IDENTIFY ALL REQUIRED RACEWAY PATHWAYS AND FLOOR PENETRATIONS.
 - COORDINATE EXACT ROUTING OF ALL RACEWAYS, ASSOCIATED HANGERS & SUPPORTS, AND DISTRIBUTION EQUIPMENT LOCATIONS WITH OTHER TRADES PRIOR TO INSTALLATION.
 - RACEWAYS SHALL BE ROUTED ABOVE FINISHED CEILING WHERE APPLICABLE. UNLESS NOTED OTHERWISE, IN AREAS WITH NO CEILING, RACEWAYS SHALL BE ROUTED TIGHT TO UNDERSIDE OF STRUCTURE.
 - REFER TO MECHANICAL DRAWINGS FOR M.E.P. COORDINATION SECTIONS THROUGH THE CORRIDOR ON EACH FLOOR.

- FIRST FLOOR RACEWAY PLAN KEYED NOTES:
- PROVIDE (2) 4" CONDUITS FROM TELECOM CLOSET TO CORRIDOR. TYP. FOR EACH TELECOM CLOSET.

ELEC 1E1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	PAD MOUNT XFMR	SITE	MDP-1A	1
B	TMH-C231	SITE	PULL BOX	1
C	GEN. QUICK CONNECT BOX	SITE	MDP-1A	1



KEYPLAN:



SEAL:

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11

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

ELECTRICAL

TITLE:

FIRST FLOOR RACEWAY PLAN

NUMBER:

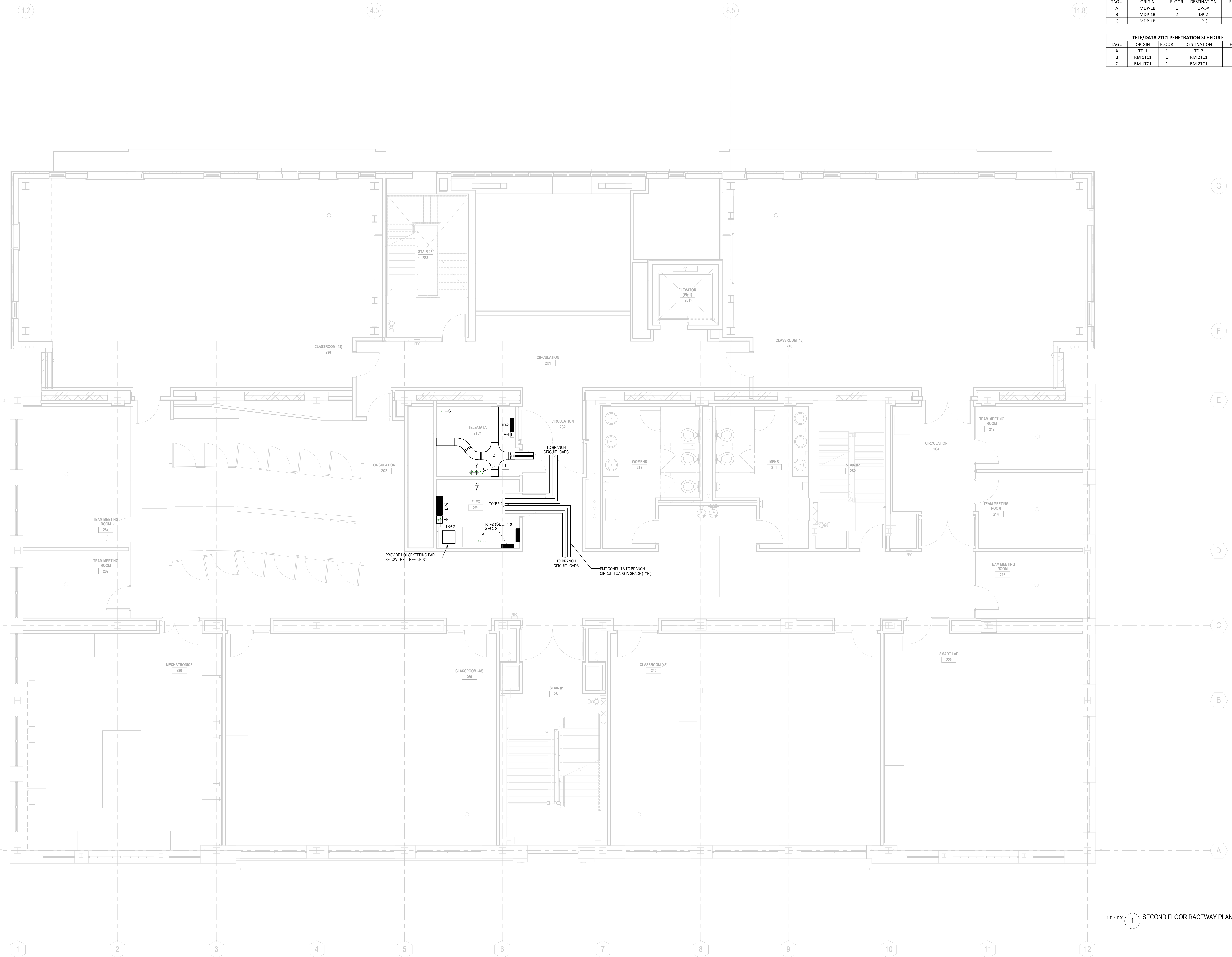
ER101

1/4" = 1'-0" 1 FIRST FLOOR RACEWAY PLAN

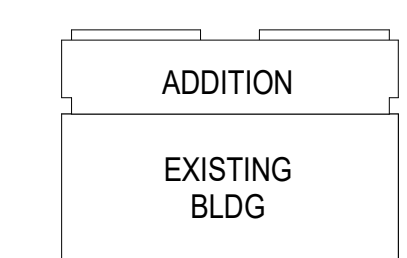
- GENERAL RACEWAY PLAN NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 - FOR ADDITIONAL GENERAL RACEWAY PLAN NOTES, REFER TO SHEET ER101.
- SECOND FLOOR RACEWAY PLAN KEYED NOTES:
- PROVIDE (3) 4" SLEEVES THROUGHOUT FLOOR ABOVE FOR TELEDATA, STUB UP CONDUIT 4" ABOVE AND BELOW FINISHED FLOOR. PROVIDE BUSHING ON END OF CONDUITS.

ELEC 2E1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	MDP-1B	1	DP-5A	5
B	MDP-1B	2	DP-2	2
C	MDP-1B	1	LP-3	3

TELE/DATA 2TC1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	TD-1	1	TD-2	2
B	RM 2TC1	1	RM 2TC1	2
C	RM 2TC1	1	RM 2TC1	2



KEYPLAN:



SEAL:

CONDITION OF USE

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ELECTRICAL

TITLE:
SECOND FLOOR RACEWAY PLAN

NUMBER:
ER102

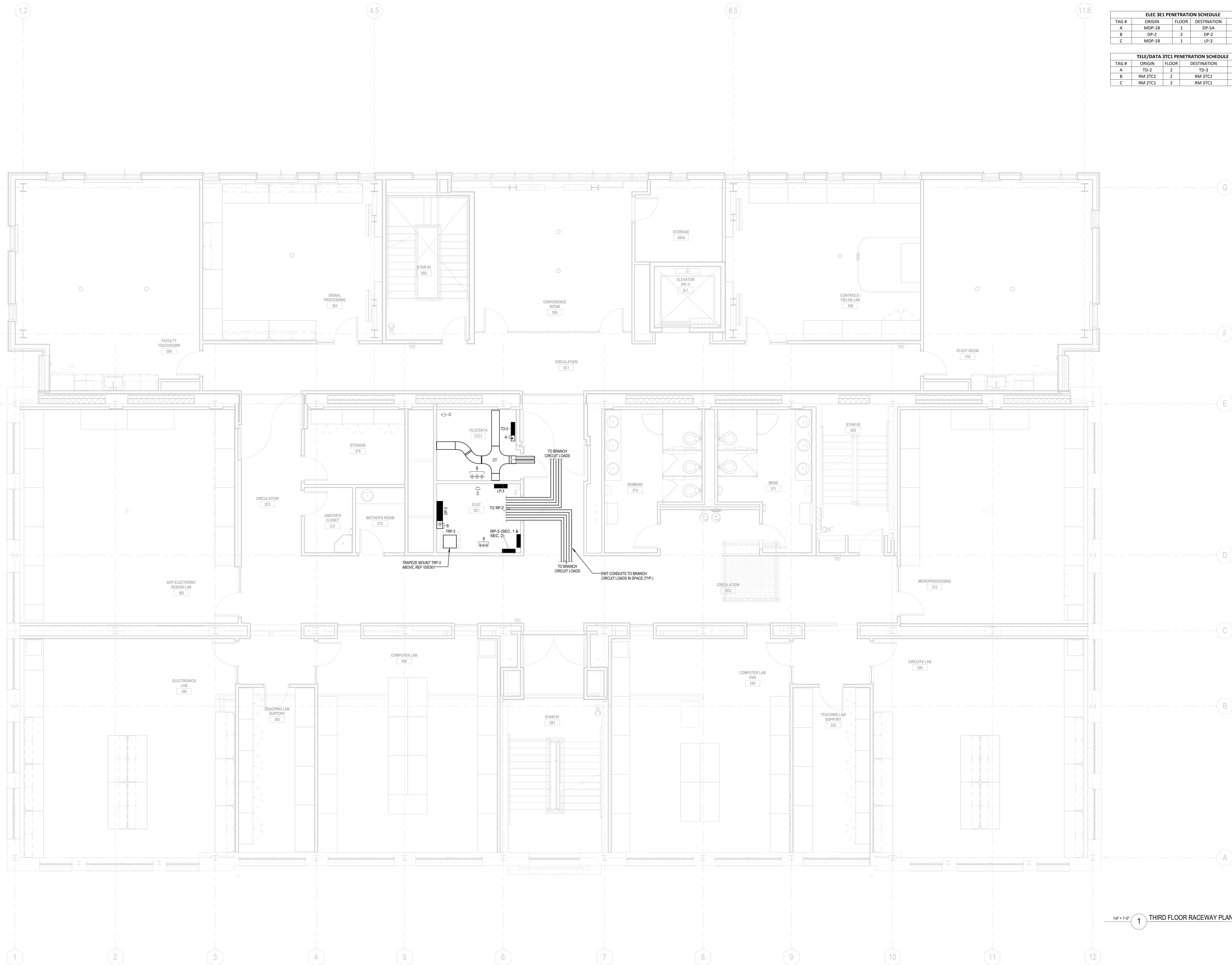
1/4" = 1'-0" 1 SECOND FLOOR RACEWAY PLAN

GENERAL RACEWAY PLAN NOTES:
1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
2. FOR ADDITIONAL GENERAL RACEWAY PLAN NOTES, REFER TO SHEET ER101.

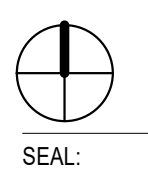
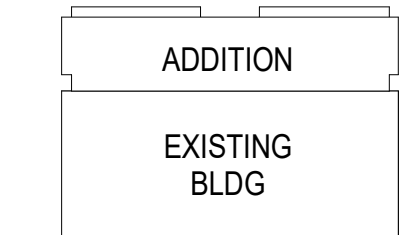
THIRD FLOOR RACEWAY PLAN KEYED NOTES:
1. PROVIDE (3) 4" SLEEVES THROUGHOUT FLOOR ABOVE FOR TELEDATA, STUB-UP CONDUIT 4" ABOVE AND BELOW FINISHED FLOOR, PROVIDE BUSHING ON END OF CONDUITS.

ELEC 3E1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	MDP-1B	1	DP-5A	5
B	DP-2	2	DP-2	3
C	MDP-1B	1	LP-3	3

TELE/DATA 3TC1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	TD-2	2	TD-3	3
B	RM 2TC1	2	RM 3TC1	3
C	RM 2TC1	2	RM 3TC1	3



KEYPLAN:



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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/4" = 1'-0"
ELECTRICAL

TITLE:
THIRD FLOOR RACEWAY PLAN

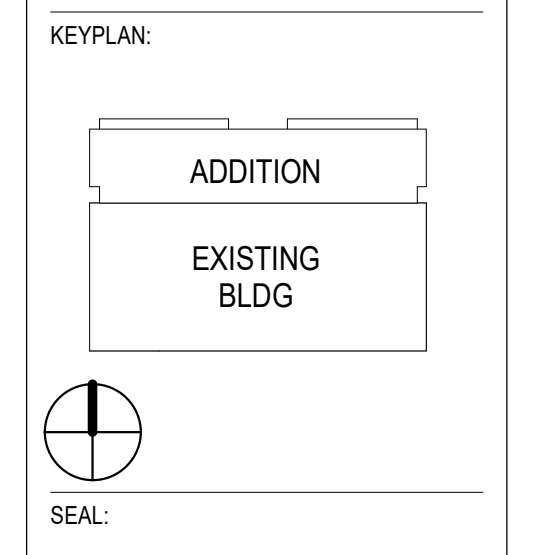
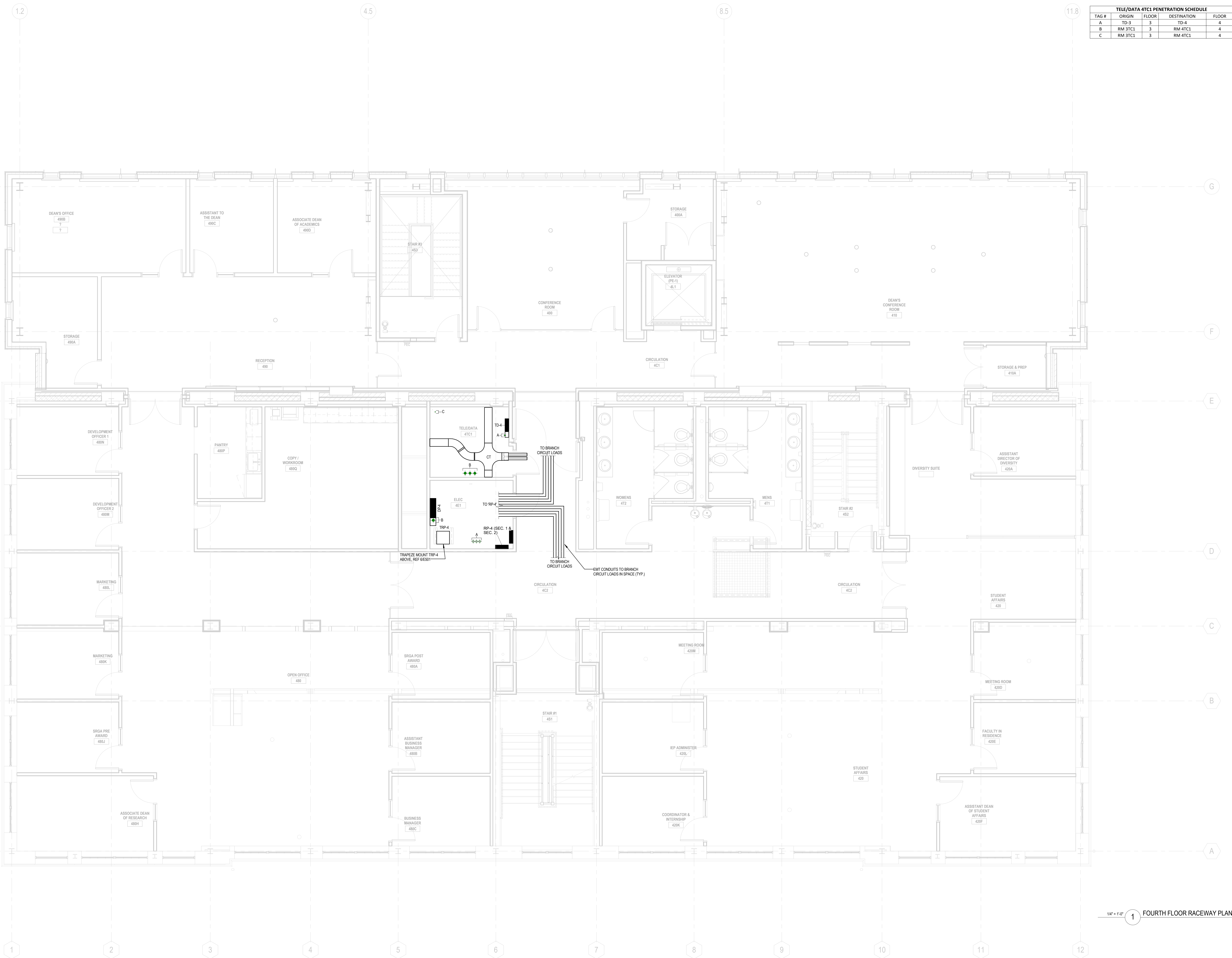
NUMBER:
ER103

1/4" = 1'-0" 1 THIRD FLOOR RACEWAY PLAN

GENERAL RACEWAY PLAN NOTES:
 1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 2. FOR ADDITIONAL GENERAL RACEWAY PLAN NOTES, REFER TO SHEET ER101.

ELEC 4E1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	MDP-1B	3	DP-5A	5
B	DP-3	3	DP-4	4

TELE/DATA 4TC1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	TD-3	3	TD-4	4
B	RM 3TC1	3	RM 4TC1	4
C	RM 3TC1	3	RM 4TC1	4



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070518 ISSUE 5
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: 1/4" = 1'-0"
 ELECTRICAL

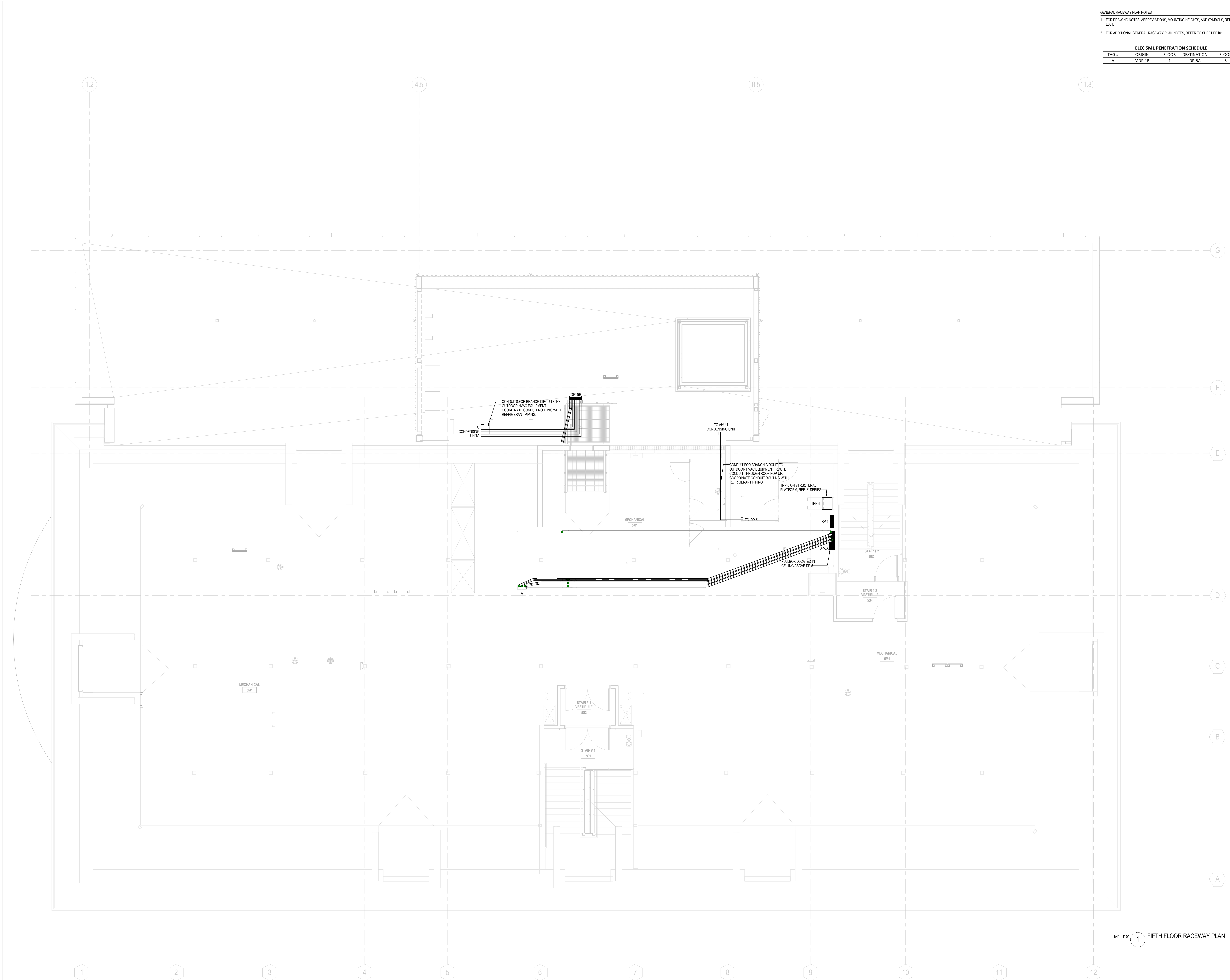
TITLE:
 FOURTH FLOOR RACEWAY PLAN

NUMBER:
 ER104

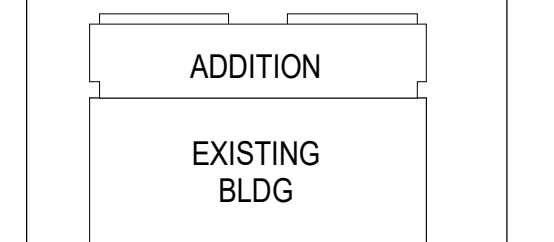
1/4" = 1'-0" 1 FOURTH FLOOR RACEWAY PLAN

GENERAL RACEWAY PLAN NOTES:
 1. FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO SHEET E001.
 2. FOR ADDITIONAL GENERAL RACEWAY PLAN NOTES, REFER TO SHEET ER101.

ELEC SM1 PENETRATION SCHEDULE				
TAG #	ORIGIN	FLOOR	DESTINATION	FLOOR
A	MDP-1B	1	DP-SA	5



KEYPLAN



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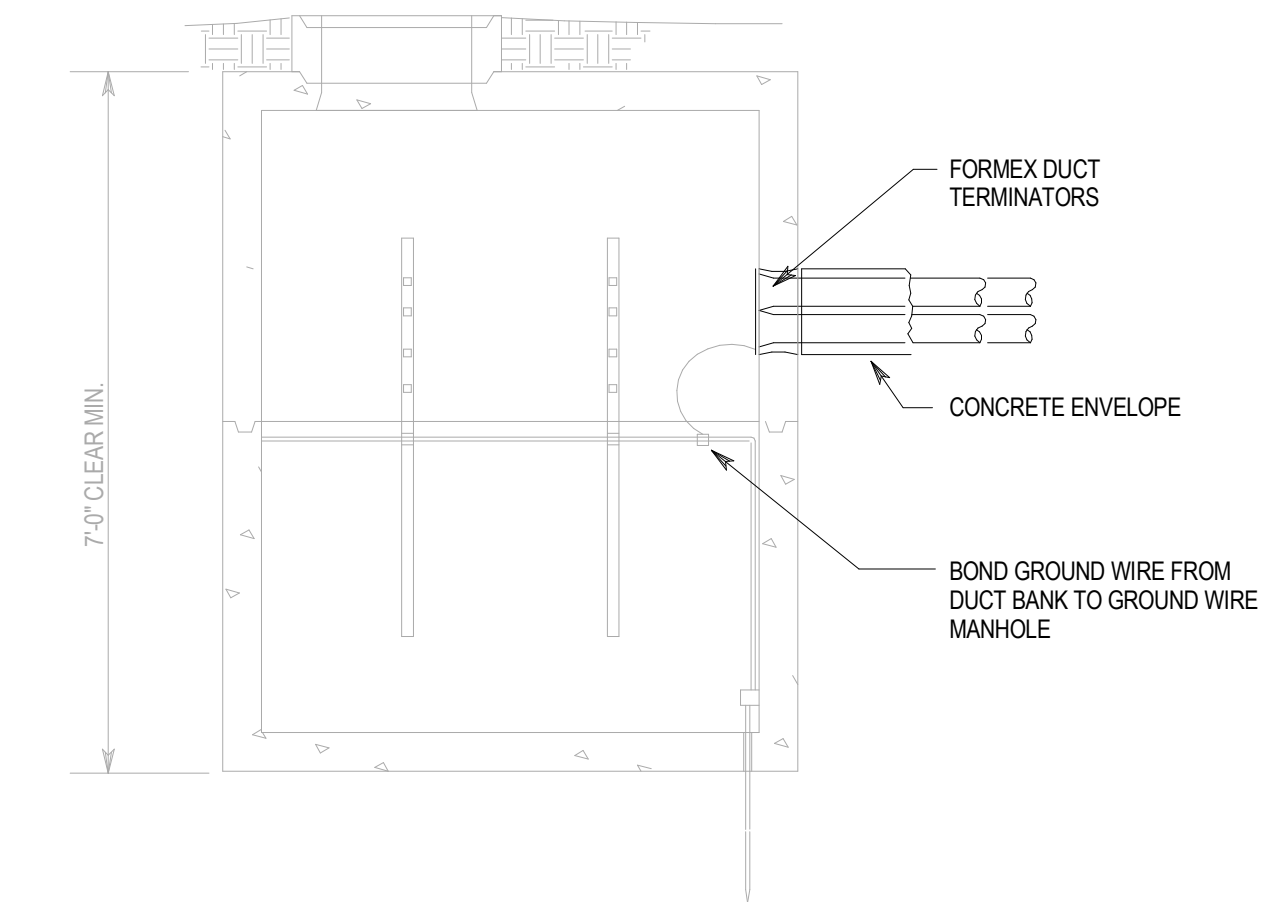
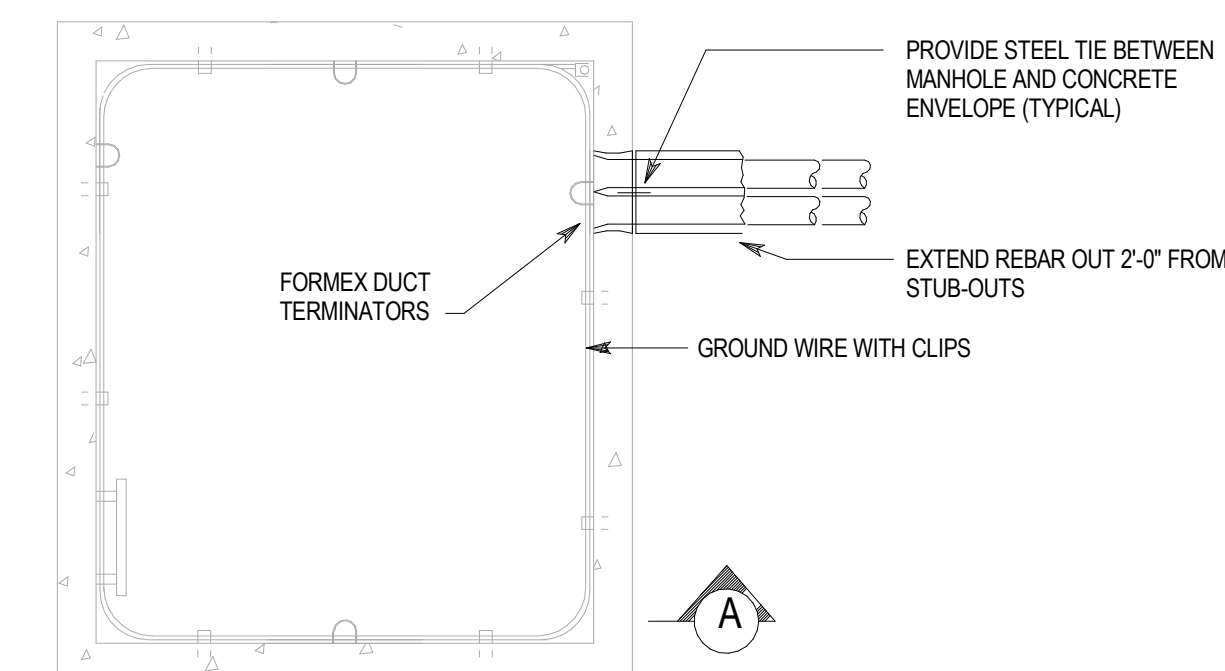
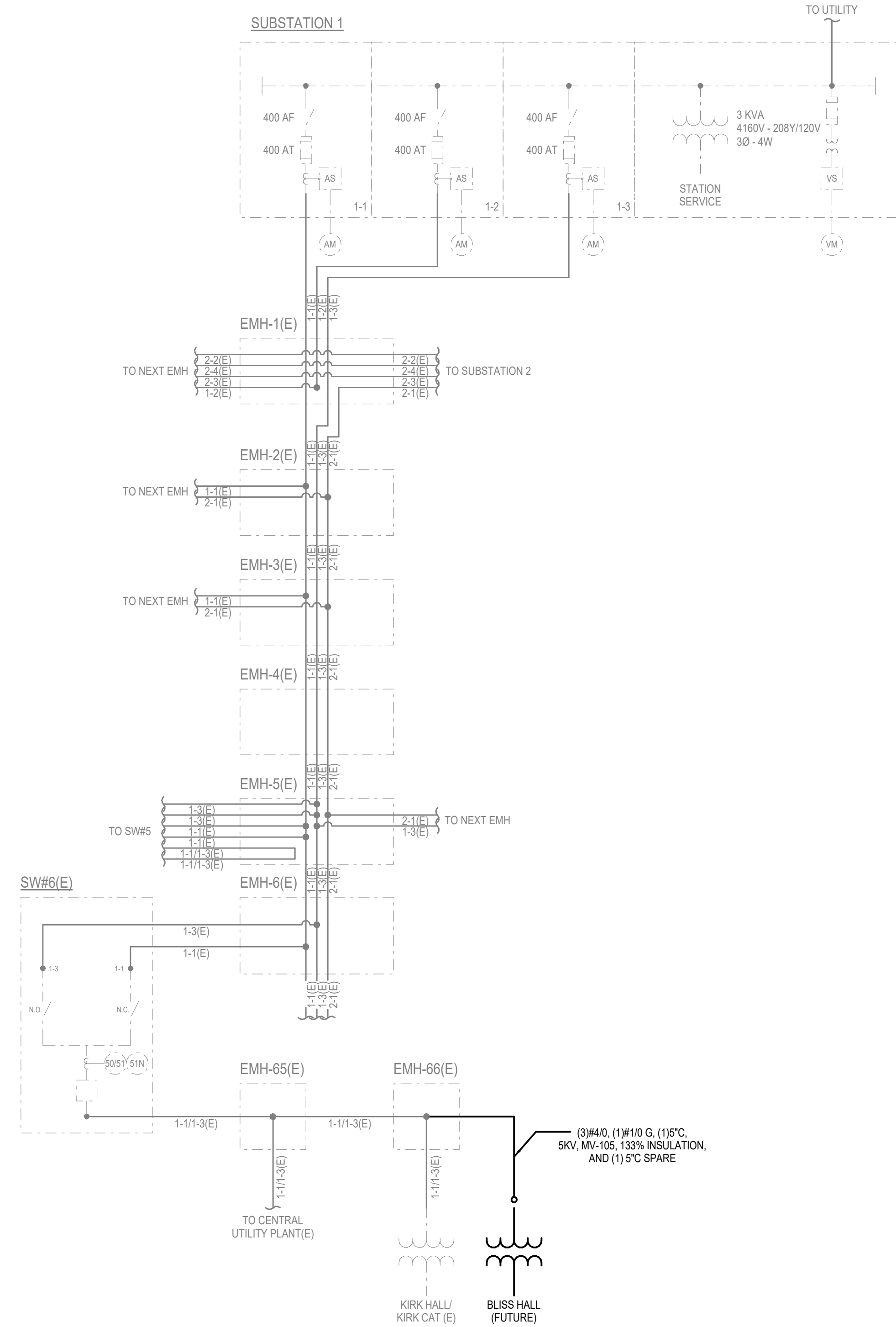
070518 ISSUE 5
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: 1/4" = 1'-0"
 ELECTRICAL

TITLE:
 FIFTH FLOOR RACEWAY PLAN

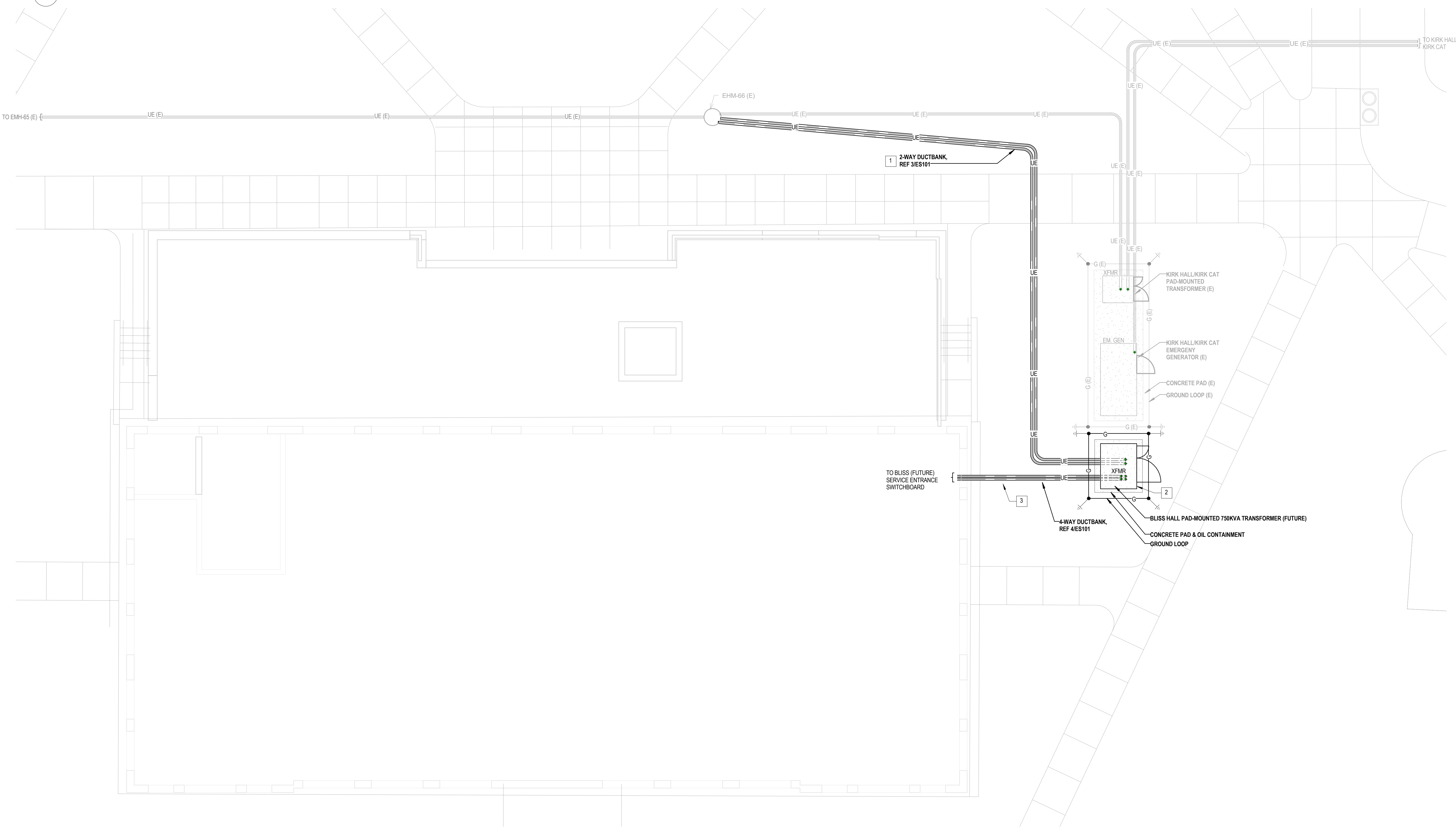
NUMBER:
 ER105

1/4" = 1'-0" 1 FIFTH FLOOR RACEWAY PLAN

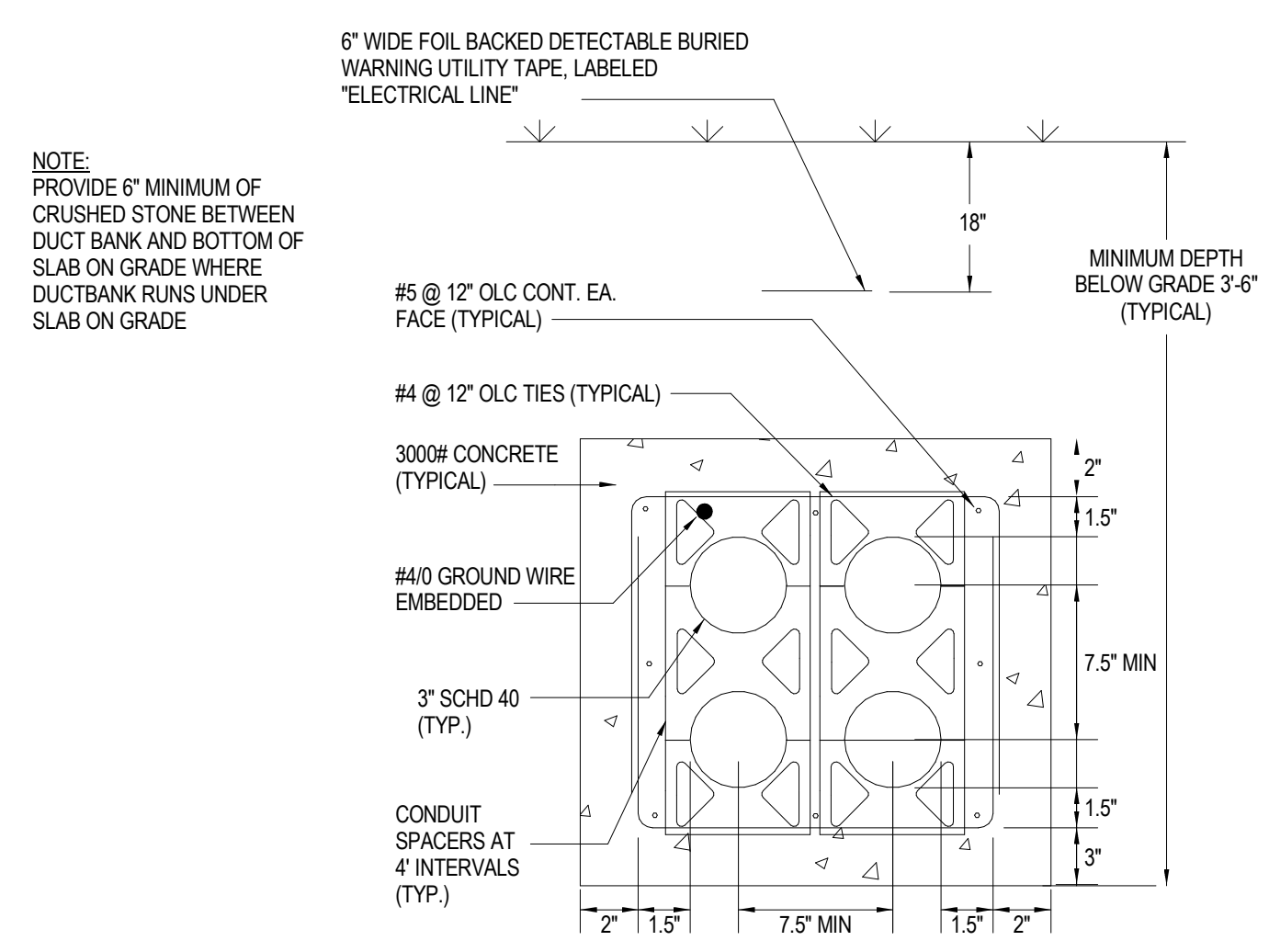


SECTION A
N.T.S. 5 MANHOLE DETAIL

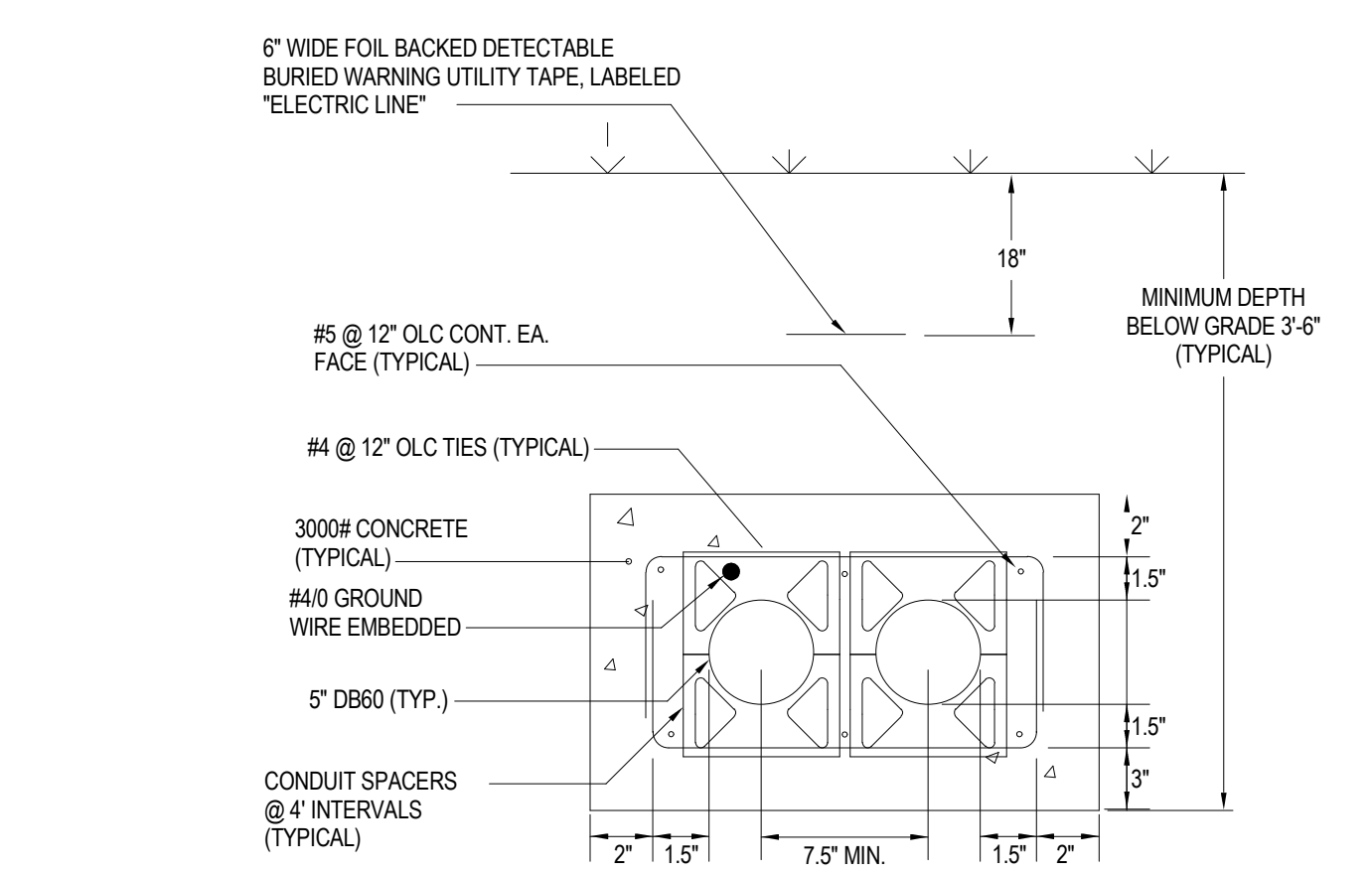
N.T.S. 2 MEDIUM VOLTAGE SINGLE LINE DIAGRAM



18" = 1'-0" 1 ELECTRICAL SITE PLAN



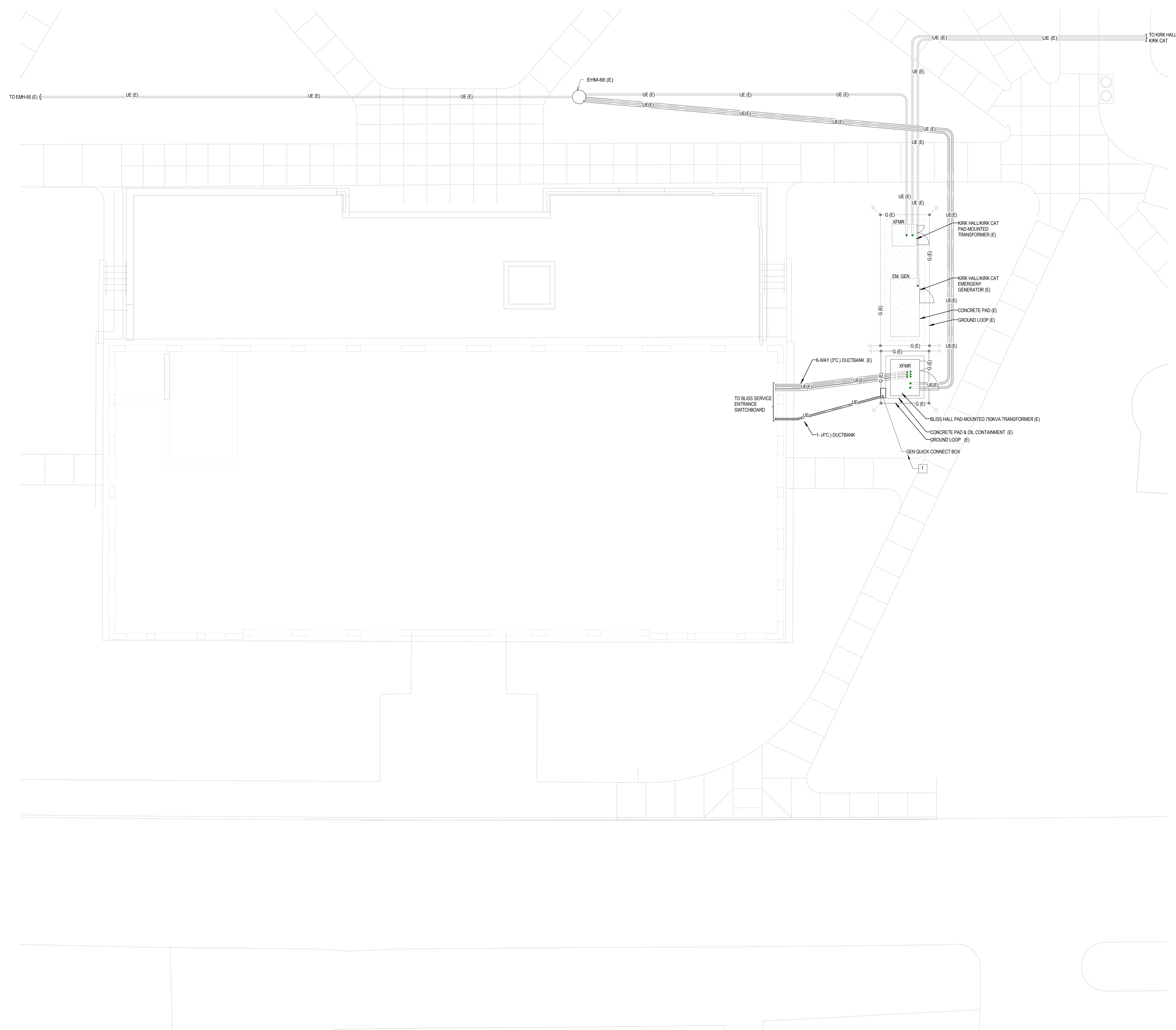
N.T.S. 4 4-WAY DUCTBANK 3'



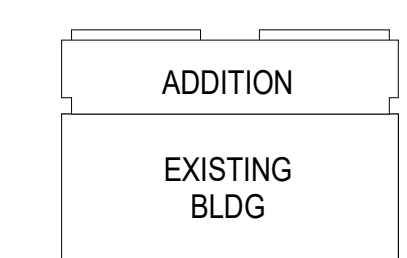
N.T.S. 3 2-WAY DUCTBANK 5'

- GENERAL SITE PLAN NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, AND SYMBOLS, REFER TO DRAWING E001.
 - FOR ADDITIONAL GENERAL SITE PLAN NOTES, REFER TO DRAWING ESD101.
 - ALL WIRING SHALL BE TERMINATED AND LABELED.

- SITE PLAN KEYED NOTES:
- GENERATOR QUICK CONNECT MOUNTED TO UNISTRUT FRAMING. UNISTRUT FRAMING MAY BE ANCHORED TO SIDE OF TRANSFORMER CONCRETE FOUNDATION SLAB USING DRILL & GROUT EXPANSION ANCHORS AS REQUIRED. TOP OF UNISTRUT NOT TO EXCEED HEIGHT OF ADJACENT TRANSFORMER.



KEYPLAN



SEAL:

CONDITION OF USE

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070518 ISSUE 5
DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated

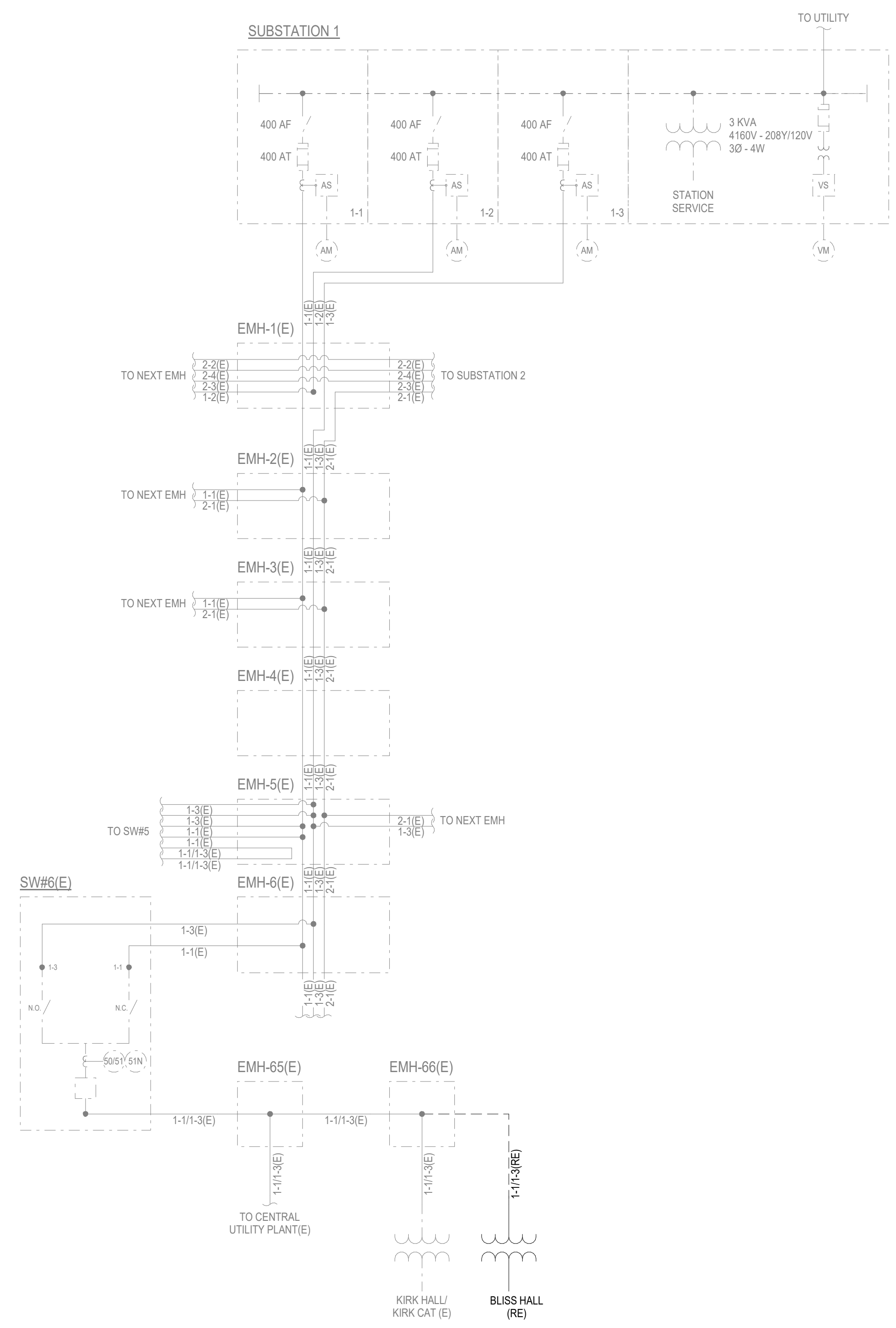
ELECTRICAL

TITLE:
ELECTRICAL SITE PLAN

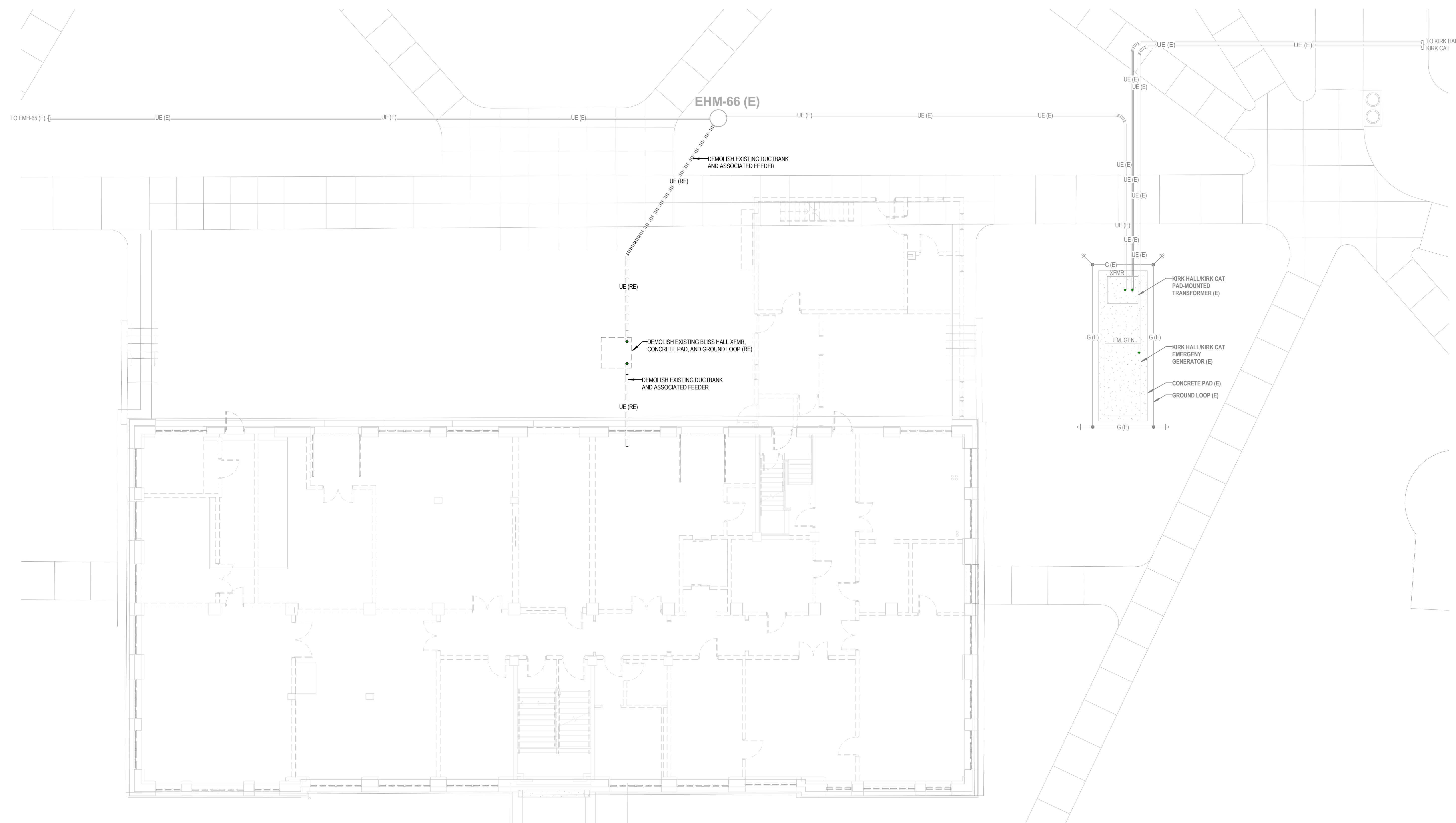
NUMBER:

ES102

- GENERAL SITE PLAN DEMOLITION NOTES:
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO DRAWING E01.
 - COORDINATE DEMOLITION AND NEW WORK WITH ALL DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
 - PERFORM ALL WORK IN ACCORDANCE WITH THE ELECTRICAL CODE, D.S.H.A., PERTINENT NFPA CODES, THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTIONS, AND ALL STANDARDS APPLIED BY THE BUILDING MANAGEMENT. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION IN ADDITION TO ALL LAWS AND CODES OF THE STATE OF RHODE ISLAND. ALL WORK SHALL BE INSPECTED BY UR'S COORDINATOR OF ALARMS AS NEEDED PRIOR TO BACKFILL.
 - OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
 - SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS.
 - ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL SCOPE OF WORK. SIZES AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF EQUIPMENT SHALL BE AS APPROVED BY THE CONSTRUCTION MANAGER.
 - SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK. FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTORS.
 - CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
 - FIELD COORDINATE ALL TRENCHING/EXCAVATION LOCATIONS AND DEPTHS TO ENSURE THAT ANY EXISTING SITE UTILITIES ARE NOT DAMAGED DURING WORK. ANY DAMAGE INCURRED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
 - PHASED DEMOLITION AND NEW WORK TO BE PERFORMED IN AN OPERATIONAL CAMPUS SITE. CLOSELY COORDINATE AND SCHEDULE ALL WORK WITH ALL DISCIPLINES, EXISTING CONDITIONS, AND CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL VERIFY SEQUENCE OF WORK IS FEASIBLE TO PROJECT CONDITIONS AND SCHEDULE AND SHALL PROPOSE CHANGES FOR ENGINEER'S REVIEW AS THEY SEE FIT. FAILURE OF CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PERTAINING TO EXISTING ELECTRICAL EQUIPMENT WILL NOT BE CONSIDERED JUSTIFICATION FOR CHANGE ORDERS OR SCHEDULE DELAYS.
 - THE ENTIRE INSTALLATION SHALL MEET ALL REQUIREMENTS OF THE LATEST APPLICABLE EDITION OF THE NEC AND LOCAL CODES. ALL EQUIPMENT SHALL BE LISTED AND BEAR THE LABEL OF AN APPROVED NATIONALLY RECOGNIZED TESTING LABORATORY.
 - ALL FEEDER DESIGNATIONS, IE "1-3" ARE BASED ON ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL FEEDER DESIGNATIONS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
 - FEEDER DESIGNATIONS NOTED AS "1-11-3" FOR EXAMPLE, ARE SINGLE FEEDERS WITH SELECTOR SWITCH UPSTREAM.

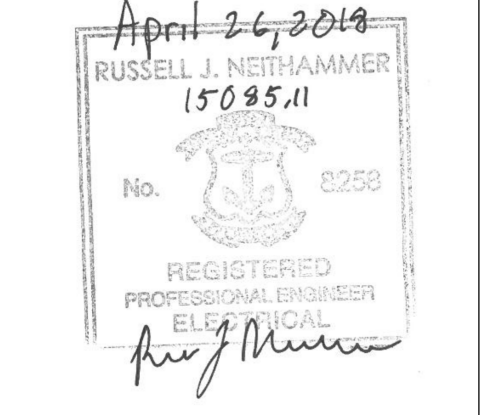
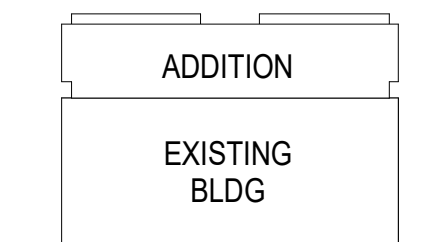


NTS 2 MEDIUM VOLTAGE DEMOLITION SINGLE LINE DIAGRAM



108' x 142' 1 ELECTRICAL SITE PLAN DEMOLITION

KEYPLAN:



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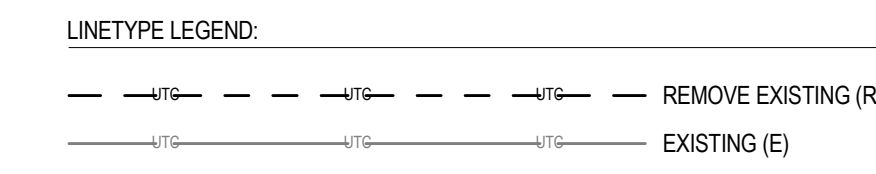
03/14/18 ISSUED FOR BID
04/27/2018 ISSUE 4 - PERMIT
DRAWING ISSUE

PROJECT: 15085.11
SCALE: As indicated
ELECTRICAL

TITLE:
ELECTRICAL SITE PLAN DEMOLITION

NUMBER:
ESD101

NOTE: NEW LIPPITT HALL FIRE ALARM CABLING WORK MUST BE COMPLETED, FIELD TESTED, AND RETURNED TO OPERABILITY - PRIOR TO DEMOLITION OF ANY EXISTING CABLING AT BLISS HALL.

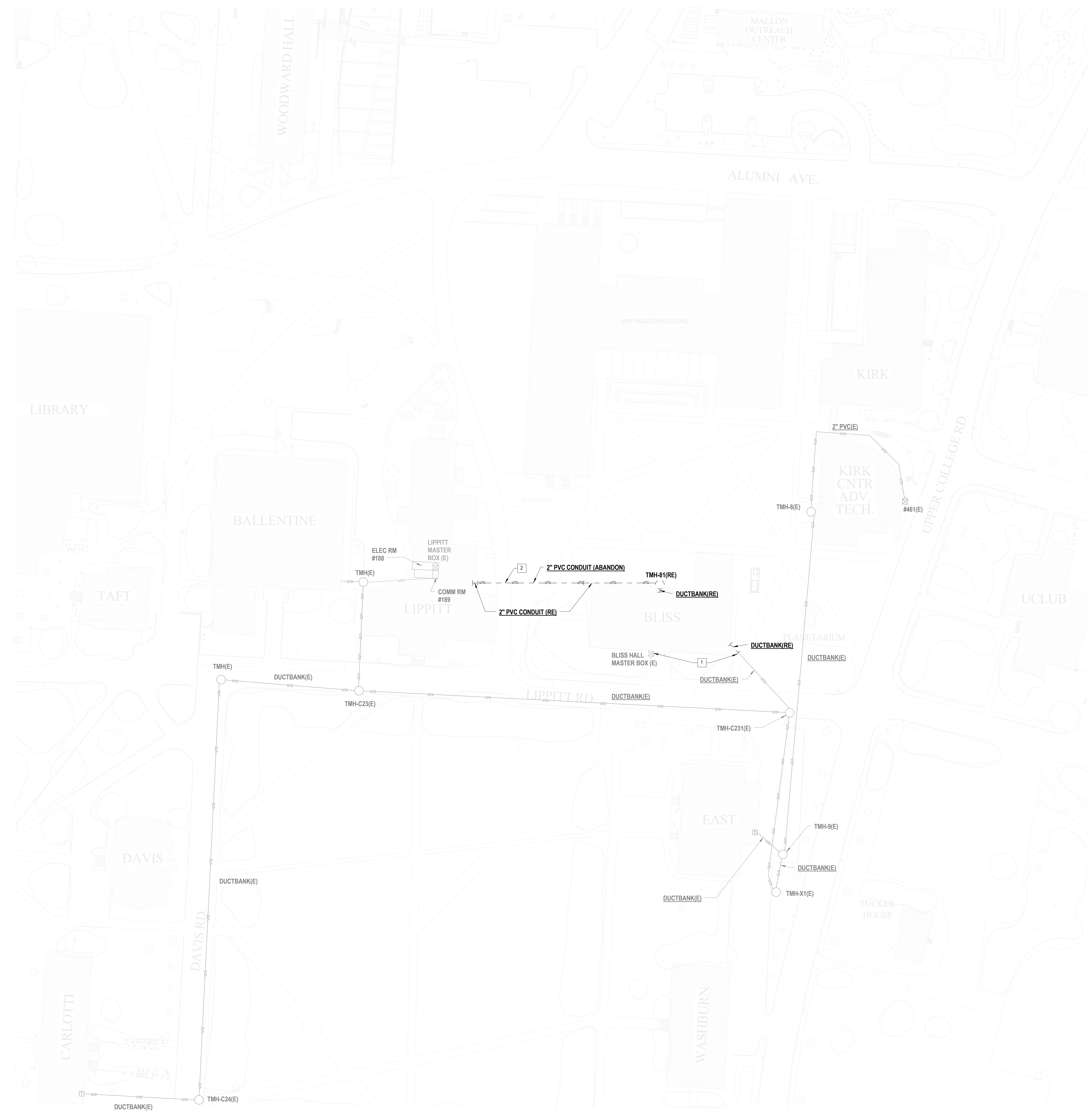


GENERAL FIRE ALARM SITE PLAN DEMOLITION NOTES:

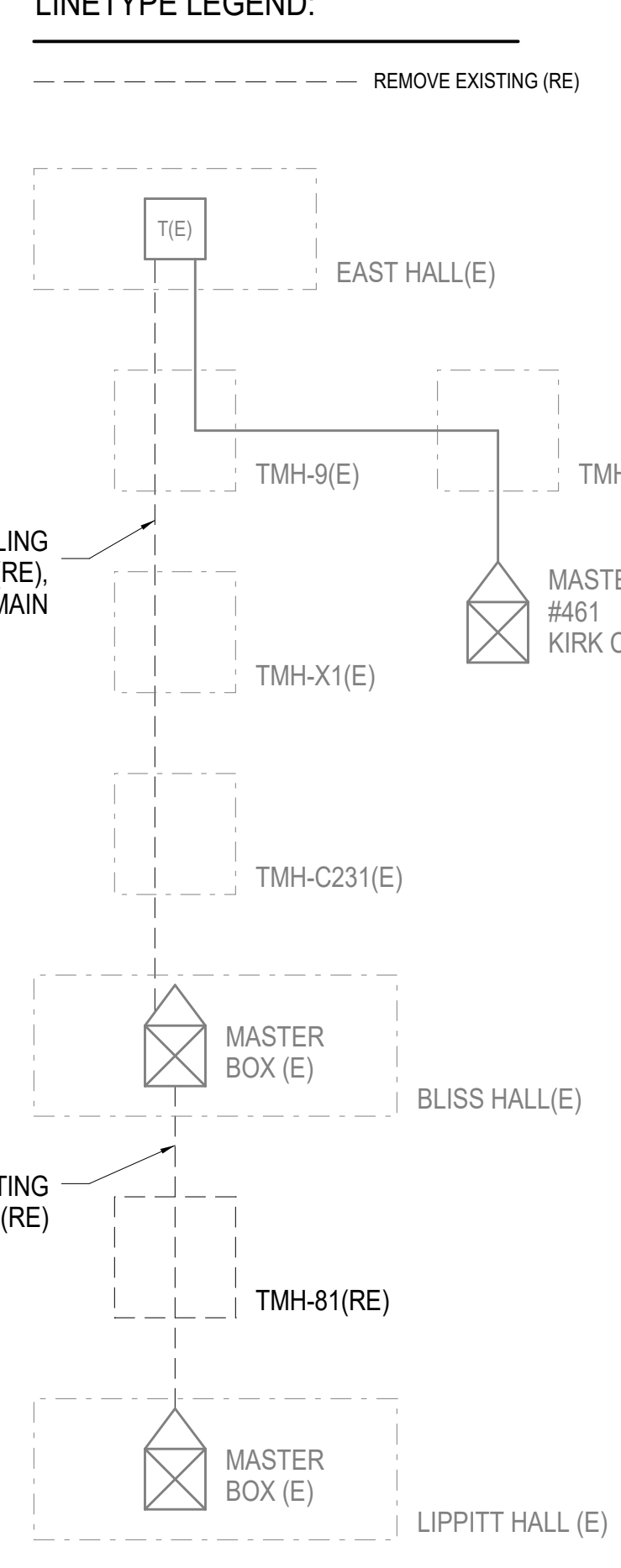
- FOR DRAWING NOTES, ABBREVIATIONS, MOUNTING HEIGHTS, AND SYMBOLS, REFER TO DRAWING E001.
- COORDINATE DEMOLITION AND NEW WORK WITH ALL DISCIPLINES AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION.
- PERFORM ALL WORK IN ACCORDANCE WITH THE ELECTRICAL CODE, O.S.H.A., PERTINENT NFPA CODES, THE RULES AND REGULATIONS OF ALL LOCAL, STATE AND FEDERAL AUTHORITIES HAVING JURISDICTIONS, AND ALL STANDARDS APPLIED BY THE BUILDING MANAGEMENT. PROVIDE OWNER WITH CERTIFICATES OF INSPECTION IN ADDITION TO ALL LAWS AND CODES OF THE STATE OF RHODE ISLAND. ALL WORK SHALL BE INSPECTED BY LIFE'S COORDINATOR OF ALARMS AS NEEDED PRIOR TO INSTALL.
- MAINTAIN CONTINUITY OF ALL ACTIVE FIRE ALARM CIRCUITS.
- OWNER RETAINS RIGHTS OF SALVAGE FOR EQUIPMENT TO BE REMOVED. COORDINATE WITH OWNER THE EQUIPMENT TO BE SALVAGED AND THE LOCATION FOR STORAGE. AVOID DAMAGE TO SALVAGED EQUIPMENT DURING DEMOLITION WORK AND DURING TRANSPORT TO OWNER'S DESIGNATED STORAGE LOCATION.
- SEAL ALL PENETRATIONS THROUGH FLOORS, WALLS, CEILING, AND ROOF WHERE ELECTRICAL COMPONENTS ARE REMOVED AND WHERE THE EXISTING PENETRATION IS NOT USED FOR THE NEW INSTALLATION. REPAIR DAMAGED SURFACES TO MATCH ADJACENT AREAS.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC AND REPRESENT THE GENERAL SCOPE OF WORK. SIZES AND LOCATION OF EQUIPMENT ARE SHOWN TO SCALE WHERE POSSIBLE, BUT MAY BE DISTORTED FOR CLARITY ON THE DRAWINGS. FINAL LOCATION OF EQUIPMENT SHALL BE AS APPROVED BY THE CONSTRUCTION MANAGER.
- EXISTING CONDITIONS WERE TAKEN FROM ORIGINAL DRAWINGS AND SITE VISITS AND MAY NOT REFLECT EXACT "AS-BUILT" CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING FINAL BIDS. CAREFULLY COORDINATE NEW WORK AND DEMOLITION WITH ALL OTHER DISCIPLINES, EXISTING CONDITIONS, AND CONSTRUCTION MANAGER.
- SECURE AND PAY FOR ALL PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK. FURNISH TO THE ARCHITECT A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTORS.
- CONTRACTOR SHALL PERFORM ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE OF THE SAME MATERIALS, WORKMANSHIP AND FINISH, AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK.
- FIELD COORDINATE ALL TRENCH/EXCAVATION LOCATIONS AND DEPTHS TO ENSURE THAT ANY EXISTING SITE UTILITIES ARE NOT DAMAGED DURING WORK. ANY DAMAGE INCURRED SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- PHASED DEMOLITION AND NEW WORK TO BE PERFORMED IN ACCORDANCE WITH THE GENERAL SCOPE OF WORK. COORDINATE AND SCHEDULE ALL WORK WITH ALL DISCIPLINES. EXISTING CONDITIONS, AND CONSTRUCTION MANAGER PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL VERIFY SEQUENCE OF WORK IS FEASIBLE TO PROJECT CONDITIONS AND SCHEDULE AND SHALL PROPOSE CHANGES FOR ENGINEER'S REVIEW AS THEY SEE FIT. FAILURE OF CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PERTAINING TO EXISTING ELECTRICAL EQUIPMENT WILL NOT BE CONSIDERED JUSTIFICATION FOR CHANGE ORDERS OR SCHEDULE DELAYS.

FIRE ALARM SITE PLAN DEMOLITION KEYED NOTES:

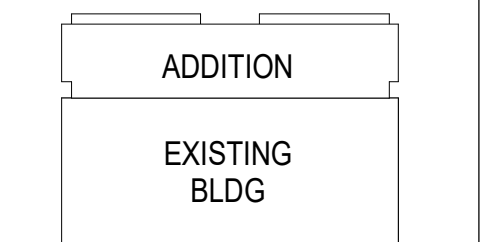
- DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLING FROM BLISS HALL TO EAST HALL. DEMOLISH EXISTING 2" PVC DUCTBANK TO A MINIMUM OF 5'-0" FROM BUILDING PERIMETER AND CAP WITH MECHANICAL PLUG ON BOTH ENDS.
- DISCONNECT AND REMOVE EXISTING FIRE ALARM CABLING FROM LIPPITT HALL TO BLISS HALL. DEMOLISH/ABANDON EXISTING CONDUIT WHERE NOTED AND DEMOLISH EXISTING MANHOLE TMH-81 IN ITS ENTIRETY. EXTENT OF CONDUIT DEMOLITION SHALL EXTEND A MINIMUM 5'-0" FROM POINT OF SITE EXCAVATION FOR BLISS HALL EXPANSION. EXISTING LIPPITT HALL FIRE ALARM MASTER BOX TO REMAIN.



SINGLE LINE DIAGRAM LINE TYPE LEGEND:



KEYPLAN:



SEAL:
 APR 26 2019
 RUSSELL A. VICKI (PAV) 15085.11
 REGISTERED PROFESSIONAL ENGINEER
 ELEC

CONDITION OF USE
 WHEN THIS DOCUMENT IS SUBMITTED TO OTHER PERSONS OR CONTRACTORS, IT CONVEYS POWER OR AUTHORITY FROM THE CONTRACTOR TO THE PERSONS TO WHOM IT IS SUBMITTED TO ACCEPT RESPONSIBILITY FOR THE WORK AND TO MAINTAIN THE DOCUMENT AS A RECORD OF THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DOCUMENT'S ACCURACY AND FOR THE DOCUMENT'S USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DOCUMENT'S USE AS A REFERENCE TO THE WORK AND FOR THE DOCUMENT'S USE AS A REFERENCE TO THE WORK AND FOR THE DOCUMENT'S USE AS A REFERENCE TO THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DOCUMENT'S USE AS A REFERENCE TO THE WORK AND FOR THE DOCUMENT'S USE AS A REFERENCE TO THE WORK.

03/14/18 ISSUED FOR BID
 04/27/2018 ISSUE 4 - PERMIT
 DRAWING ISSUE

PROJECT: 15085.11
 SCALE: As indicated
 ELECTRICAL

TITLE:
 FIRE ALARM SITE PLAN
 DEMOLITION

NUMBER:
 ESD201

SYMBOL	DESCRIPTION	NOTES
TELECOMMUNICATIONS SYMBOLS		
	STANDARD WALL MOUNTED TELECOMM 2-DATA OUTLET W/ (2) TWO CAT 6A JACKS, UNLESS OTHERWISE NOTED 'X' INDICATED NUMBER OF DATA JACKS	1- DESIGNATES 1-DATA OUTLET 2- DESIGNATES 2-DATA OUTLETS 3- DESIGNATES 3-DATA OUTLETS 4- DESIGNATES 4-DATA OUTLETS
	STANDARD WALL MOUNTED TELECOMM 'WALLPHONE' OUTLET W/ (1) ONE CAT 6A JACK	1- DESIGNATES 1-DATA OUTLET 2- DESIGNATES 2-DATA OUTLETS OUTLET MOUNTED 36" AFF
	STANDARD TELECOMM FLOOR MOUNTED (2) TWO DATA OUTLET W/ (2) TWO CAT 6A JACKS, UNLESS OTHERWISE NOTED 'X' INDICATED NUMBER OF DATA JACKS	E.C. TO PROVIDE 1 1/4" CONDUIT FROM THE FLOOR BOX TO THE NEAREST ACCESSIBLE CEILING.
	STANDARD CEILING MOUNTED TELECOMM 2-DATA OUTLET W/ (1) ONE CAT 6A JACKS FOR WIRELESS ACCESS POINTS	WM = WALL MOUNTED OUTLET 18" BELOW FINISHED CEILING BUT NOT HIGHER THAN 90" AFF. CM = CEILING MOUNTED
	STANDARD CEILING MOUNTED TELECOMM 1-DATA OUTLET W/ (1) ONE CAT 6A JACK FOR CEILING CONTROL PANEL	CEILING MOUNTED DATA OUTLET FOR AV PROJECTOR
	TELECOMMUNICATIONS LADDER RACK SUPPORT SYSTEM	
	ROUTING OF MULTIPLE OR INDIVIDUAL TELECOMM CABLES TO WORKSTATION OUTLETS ON THIS FLOOR	
	ROUTING OF MULTIPLE OR INDIVIDUAL TELECOMM CABLES IN THE CEILING OF FLOOR BELOW	
	FLOOR MOUNTED 2' TELECOMM POKE-THRU	
	POWER POLES	

AV SYMBOLS	DESCRIPTION	NOTES
	(2) CAT6A DATA JACKS, FOR AV USE	FIELD COORDINATE MOUNTING HEIGHT WITH AV CONTRACTOR AND EC
	(1) CAT6A DATA JACK FOR ROOM SCHEDULING PANEL ON GLAZING	TO USE A DIRECT ATTACH RJ45 PLUG AT THE ROOM SCHEDULER END. FIELD COORDINATE EXACT MOUNTING HEIGHTS AND CABLE ROUTING WITH ARCHITECT, GC AND AV CONTRACTOR PRIOR TO INSTALLATION.
	(1) CAT6A DATA JACK FOR ROOM SCHEDULING PANEL ON WALL	
	(2) CAT 6A MOUNTED BEHIND THE TV	FIELD COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS WITH ARCHITECT AND AV CONTRACTOR

ELECTRICAL SYMBOLS	
	PULL BOX OR JUNCTION BOX WALL MOUNTED
	PULL BOX OR JUNCTION BOX MOUNTED AT CEILING
	PLUG MOLD OUTLET STRIP
	PULL BOX OR JUNCTION BOX LARGE CUSTOM FABRICATED TYPE
	CONDUIT BANK
	CONDUIT BANK STUBBED UP
	CONDUIT BANK STUBBED DOWN
	CONDUIT BANK OFFSET WITHIN SAME LEVEL
	CONDUIT BANK TERMINATED
	CONDUIT TURNED DOWN
	CONDUIT TURNED UP
	CONDUIT ROUTED IN FLOOR
	CONDUIT THROUGH WALL WITH BUSHED ENDS
	SLEEVE THROUGH WALL WITH BUSHED ENDS

TAG SYMBOLS	
	TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG
	UNIQUE JACK IDENTIFIER
	STANDARD DETAIL NO. DESIGNATION
	STANDARD REVISION TAG
	STANDARD REVISION BUBBLE
	INDEXING SYMBOL
	ELEV. TAG

SYMBOL	DESCRIPTION	NOTES
GENERAL WORK NOTES FOR TELECOMM ROOM		
1.	CONTRACTOR TO FIRESTOP AND SEAL AROUND WALL PENETRATIONS AND INSIDE CONDUIT TO MAINTAIN FIRE RATINGS AND PREVENT AIR FLOW (TYP.)	
2.	MAINTAIN A MINIMUM OF 12" CLEARANCE ABOVE THE EQUIPMENT RACKS.	
3.	ALL ELECTRICAL RECEPTACLES, CONDUITS, AND SLEEVES ARE TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR.	
4.	NO NON-TELECOMMUNICATIONS RELATED EQUIPMENT SHALL BE LOCATED IN THE TELECOMMUNICATIONS ROOMS (TR). ANY OTHER SYSTEMS EQUIPMENT THAT IS PLANNED TO BE LOCATED IN THESE SPACES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE URI TELECOMMUNICATIONS REPRESENTATIVE.	
5.	REFER TO TC-SERIES PART PLAN FOR ADDITIONAL INFORMATION.	

HORIZONTAL CABLING NOTES	
1.	VOICE HORIZONTAL CABLES INTENDED FOR FAXES, BLUE LIGHTS, MECHANICAL ROOMS AND ELEVATORS SHALL BE TERMINATED ON SEPARATE PATCH PANEL IN THE MCF AND LABELED ACCORDINGLY. ALL VOICE CABLES INTENDED FOR PHONES SHALL BE TERMINATED ON 48 PORT PATCH PANELS, SEPARATE PATCH PANELS FROM THE DATA CABLES. CONFIRM THE INTENDED PURPOSE FOR ALL VOICE DROPS WITH URI TELECOMMUNICATION REPRESENTATIVE PRIOR TO INSTALLATION.
2.	ALL CABLES SHALL BE LABELED AT BOTH ENDS, 6" FROM THE POINT OF TERMINATION.
3.	T.C. TO PROVIDE 12" OF CABLE SLACK FOR EACH TELECOMM CABLE AT THE WORKSTATION END.
4.	ALL VOICE AND DATA HORIZONTAL CABLES SHALL BE PLENUM RATED.
5.	DATA CABLES SHALL NOT BE PAINTED. TC TO PROVIDE BLACK CLOTH MESH TO WRAP CABLES IN AREAS WHERE CEILING ARE OPEN. FIELD COORDINATE AREAS WITH GC AND ARCHITECT.
6.	T.C. TO REFER TO SECURITY DRAWINGS FOR CAMERA LOCATIONS. T.C. TO RUN DATA CABLE FOR CCTV CAMERAS. PROVIDE GREEN DATA JACKS WITH BLUE DATA CABLE

JUNCTION BOX AND CONDUIT NOTES	
1.	A PULL BOX SHALL BE PROVIDED WHERE THE SUM OF THE BENDS EXCEEDS 180° AND OR 100' IN LENGTH.
2.	THE BEND RADIUS FOR TELECOMMUNICATIONS CONDUITS SHALL BE 10 TO 15 TIMES THE DIAMETER OF THE CONDUIT.
3.	JUNCTION BOXES FOR TELECOMMUNICATIONS CABLING SHALL HAVE TAMPER PROOF SCREWS.
4.	INCLUDE ALL REQUIRED JUNCTION AND PULL BOXES REGARDLESS OF THE INDICATIONS ON THE DRAWINGS (WHICH DUE TO SYMBOLIC METHODS OF NOTATION, MAY OMIT TO SHOW SOME OF THEM).
5.	PULL BOX AND JUNCTION BOXES SIZE SHOWN FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR TO SIZE THE PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH THE FIELD CONDITIONS AND APPROVED STANDARDS (USE ANSIEIA/ITA-569A SECTION 5.2.3 GUIDELINES).
6.	ALL EMPTY CONDUITS ARE TO BE PROVIDED WITH A MINIMUM OF (2) NYLON DRAG CORDS, AND FITTED WITH BUSHED ENDS.
7.	ALL PULL BOXES AND JUNCTION BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
8.	PROVIDE (1) 1 1/4" CONDUIT FROM EACH TELECOMM OUTLET TO THE NEAREST ACCESSIBLE CEILING OR CABLE TRAY. PROVIDE A DOUBLE GANG BACK BOX WITH A SINGLE GANG REDUCER BRACKET FOR EACH TELECOMM OUTLET LOCATION. FOR EACH WAP PROVIDE 2 PORT SURFACE MOUNTED BISCUIT BOX.

SPECIAL SYMBOLS	
CERTAIN SYMBOLS SHOWN IN THE SYMBOL LIST DO NOT APPEAR ELSEWHERE IN THE DRAWINGS (SUCH SYMBOLS ARE INCLUDED TO PERMIT INTERPRETATIONS TO BE MADE IN THE EVENT OF DESIGN CHANGES). FOR THIS REASON THE SCOPE OF THE WORK IS TO BE DETERMINED ONLY FROM DRAWINGS OTHER THAN THE SYMBOL LIST.	

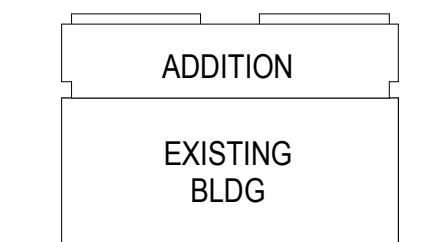
GENERAL NOTES	
1.	ALL LOCATIONS IDENTIFIED WITH A TELECOMMUNICATIONS OUTLET IDENTIFICATION TAG SHALL BE PROVIDED WITH THE APPROPRIATE CABLING AS INDICATED.
2.	CABLES ROUTED IN THE CEILING SPACES MUST UTILIZE S-HOOKS, BE BUNDLED AND TIE-WRAPPED USING APPROVED VELCRO TIE-WRAP AS PER SPECIFICATION SECTION 271000. NON-VELCRO TIE WRAPS ARE UNACCEPTABLE.
3.	WORKSTATION CABLING SHALL BE RUN FROM OUTLETS IN 1 1/2" CONDUITS TO ACCESSIBLE CEILING SPACE. EACH CONDUIT SHALL BE FITTED WITH A PLASTIC BUSHING.
4.	FLOOR BOXES CONDUITS USED TO FEED TELECOMM WORKSTATIONS IN INACCESSIBLE CEILING AREAS SHALL BE EXTENDED TO THE ACCESSIBLE CEILING SPACE ON THE SAME FLOOR.
5.	REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES.
6.	ALL CONDUITS, SLEEVES, BACKBOXES, ETC. FOR THE COMMUNICATIONS WORK SHALL BE PROVIDED BY AND COORDINATED WITH ELECTRICAL CONTRACTOR.
7.	ALL EMPTY CONDUITS ARE TO BE PROVIDED WITH A MINIMUM OF (2) NYLON DRAG CORDS, AND FITTED WITH BUSHED ENDS
8.	THE CONTRACTOR SHALL INFORM THE ENGINEER OF ANY DISCREPANCIES THAT ARISE DURING THE SITE VISIT AND SHALL REQUEST CLARIFICATION, IF NECESSARY.
9.	THE DRAWINGS FOR COMMUNICATIONS WORK UTILIZE SYMBOLS AND SCHEMATIC DIAGRAMS WHICH HAVE NO DIMENSIONAL SIGNIFICANCE. THE WORK SHALL THEREFORE BE INSTALLED TO FULLY FILL THE DIAGRAMMATIC INTENT EXPRESSED ON THE COMMUNICATIONS DRAWINGS, BUT IN CONFORMITY WITH THE DIMENSIONS INDICATED ON THE FINAL WORKING DRAWINGS, FIELD LAYOUTS AND SHOP DRAWINGS OF ALL TRADES.
10.	CERTAIN DETAILS APPEAR ON THE DRAWINGS FOR COMMUNICATIONS WORK WHICH ARE SPECIFIC WITH REGARD TO THE DIMENSIONING AND POSITIONING OF THE WORK. THESE ARE INTENDED ONLY FOR GENERAL INFORMATION PURPOSES. THEY DO NOT OBLVATE FIELD COORDINATION FOR INDIVIDUAL ITEMS OF THE INDICATED WORK.
11.	IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE OPERATING COMMUNICATIONS SYSTEM. ALL DRAWINGS ARE CONSIDERED DIAGRAMMATIC AND THE T.C. IS RESPONSIBLE FOR ALL QUANTITIES INCLUDING FUTURE GROWTH. ALL WORK NECESSARY TO PROVIDE SUCH A SYSTEM SHALL BE PERFORMED. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION.
12.	ALL VOICE, VIDEO, AND DATA SYSTEMS ASSOCIATED WITH THIS PROJECT SHALL REMAIN OPERATIONAL AT ALL TIMES AND WILL NOT BE TAKEN OFF-LINE. ANY DISRUPTION OF THESE SERVICES SHALL BE BROUGHT TO THE ATTENTION OF THE URI TELECOMMUNICATIONS DEPARTMENT, ENGINEER, AND GENERAL CONTRACTOR PRIOR TO THE WORK BEING PERFORMED.
13.	T.C. TO REFER TO ELECTRICAL AND AV DRAWINGS FOR ADDITIONAL INFORMATION AND COORDINATION.
14.	REGARDLESS OF THE INDICATION OF THE DRAWINGS THE CONTRACTOR SHALL PROVIDE ONE WALL MOUNTED TELEPHONE OUTLET FOR EACH ELEVATOR MACHINE ROOM (EMR). IN ADDITION, ONE OUTLET SHALL BE PROVIDED FOR EACH ELEVATOR SERVED BY THAT PARTICULATE EMR. THE CABLING SHALL RUN TO THE CLOSEST IDF CLOSET.
15.	REGARDLESS OF THE INDICATION OF THE DRAWINGS THE CONTRACTOR SHALL PROVIDE ONE WALL MOUNTED TELEPHONE OUTLET FOR EACH FIRE ALARM CLOSET.
16.	REGARDLESS OF THE INDICATION OF THE DRAWINGS THE CONTRACTOR SHALL PROVIDE ONE WALL MOUNTED OUTLET FOR EACH ELECTRICAL, MECHANICAL, AND PLUMBING METER. (2) TWO DATA DROPS FOR THE BMS SYSTEM. THE CABLING SHALL BE RUN TO THE NEAREST IDF CLOSET.

DEMO NOTES	

OUTLET TYPE DESCRIPTION	

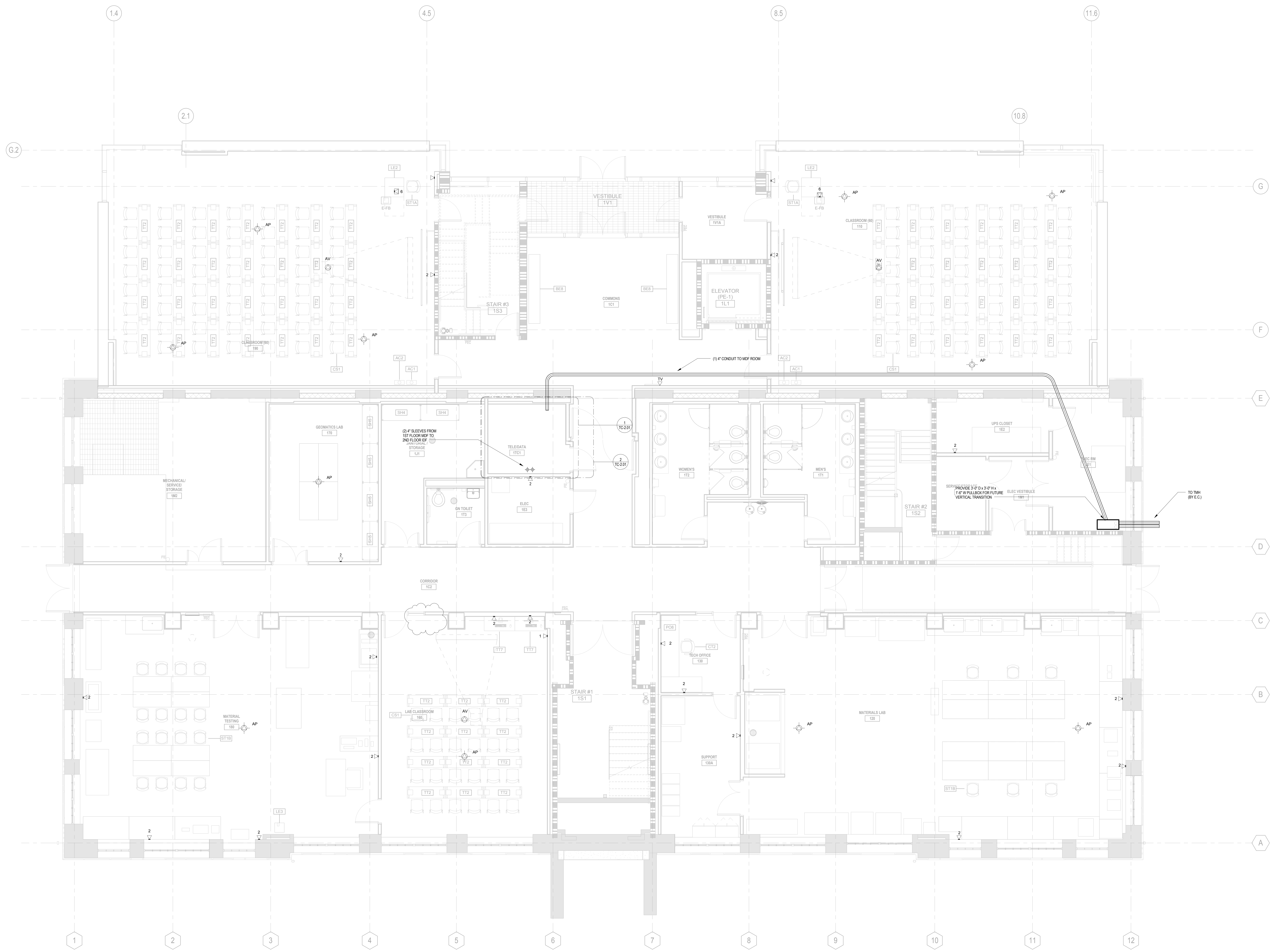
ABBREVIATIONS			
(THIS LIST OF ABBREVIATIONS DOES NOT APPLY TO ANY LETTERS USED IN CONJUNCTION WITH SYMBOLS)			
A	AMPS	ISP	INTERNET SERVICE PROVIDER
AC	ALTERNATING CURRENT	JBOX	JUNCTION BOX
ADJ	ADJACENT	LEC	LOCAL EXCHANGE CARRIER
AFF	ABOVE FINISHED FLOOR	LS	LOUDSPEAKER
AFO	ABOVE FINISHED GRADE	LTO	LIGHTING
AIR COND	AIR CONDITIONING	MA	MILLIAMPS
ARCH	ARCHITECTURAL	MAX	MAXIMUM
ASYM	ASYMMETRICAL	MC	MAIN CROSS-CONNECT
AUTO	AUTOMATIC	MDF	MAIN DISTRIBUTION FRAME
AV	AUDIOVISUAL	MECH	MECHANICAL
AVG	AVERAGE	MEP	MECHANICAL/ELECTRICAL/PLUMBING
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BL	BLANK	MISC	MISCELLANEOUS
BLDG	BUILDING	MIC	MICROPHONE
C	CENTER LINE	MTS	NOT TO SCALE
CAT	CATEGORY	OD	OUTSIDE DIAMETER
CATV	CABLE TELEVISION	OD	OUTSIDE DIAMETER
CCTV	CLOSED CIRCUIT TELEVISION	PEB	PERMANENT BRANCH EXCHANGE
CKT	CIRCUIT	PCU	POWER CONDITIONING UNIT
CLG	CEILING	PDU	POWER DISTRIBUTION UNIT
CLOS	CLOSET	PK	PACKING
CM	CIRCULAR MIL	PH	PHASE
COAX	COAXIAL CABLE	PLB	PLUMBING
COL	COLUMN	PNL	PANEL
CONC	CONCRETE	PWR	POWER
COND	CONDUIT	RECP	RECEPTACLE
CONST	CONSTRUCTION	REQ	REQUIRED
CONT	CONTINUOUS	RM	ROOM
CONV	CONVENIENCE	RMS	RACK MOUNT SPACES
CU	CUBIC	SEC	SECURITY
DC	DIRECT CURRENT	SEP	SEPARATE
DA	DIAMETER	SO	SOUTH
DN	DOWN	SPECS	SPECIFICATIONS
DTL	DETAIL	SPKR	SPEAKER
DWG	DRAWING	STA	STATION
EA	EACH	STD	STANDARD
EC	ELECTRICAL CONTRACTOR	STP	SHIELDED TWISTED PAIR
EF	ENTRANCE FACILITY	SURF	SURFACE
EIA/ITA	ELECTRONIC INDUSTRIES ASSOCIATION/TELECOMMUNICATIONS INDUSTRIES ASSOCIATION	SYM	SYMMETRICAL
ELEV	ELEVATION	TC	TELECOMM CONTRACTOR
EM	ELEVATOR	TEL	TELEPHONE
EM	ON EMERGENCY CIRCUIT	TERM	TERMINATION
EQ	EQUAL	TELECO	TELEPHONE CO.
EQUIP	EQUIPMENT	TV	TELEVISION
EXIST	EXISTING	TYP	TYPICAL
F	FLOOR	UFD	UNDER FLOOR DUCT
FA	FIRE ALARM	UN	UNINTERRUPTIBLE POWER SUPPLY
FIN	FINISH	UTP	UNSHIELDED TWISTED PAIR
F.O.	FIBER OPTIC	VA	VOLTS
FT	FEET	VAMP	VOLT AMPERES
GA	GAUGE	VENT	VENTILATING
GC	GENERAL CONTRACTOR	VERT	VERTICAL
GD	GROUND	W	WITH
HC	HUNG CEILING	W/O	WITHOUT
HGT	HEIGHT	WE	WEST
HOR	HORIZONTAL	WKSTA	WORKSTATION
HTL	HEATING	YD	YARD
HVAC	HEATING VENTILATING AND AIR CONDITIONING		
ID	INSIDE DIAMETER		
IC	INTERMEDIATE CROSS-CONNECT		
ID	IDENTIFICATION		
IDF	INTERMEDIATE DISTRIBUTION FRAME		
IN	INCHES		
INT	INTERCOM		

DRAWING LIST	
DWG No	DRAWING NAME
TC001	SYMBOL LIST TELECOMM PLAN
TC101	FIRST FLOOR TELECOMM PLAN
TC102	SECOND FLOOR TELECOMM PLAN
TC103	THIRD FLOOR TELECOMM PLAN
TC104	FOURTH FLOOR TELECOMM PLAN
TC105	FIFTH FLOOR TELECOMM PLAN
TC201	PARTS TELECOMM PLAN
TC301	DETAILS TELECOMM PLAN
TC401	RISER DIAGRAM TELECOMM PLAN

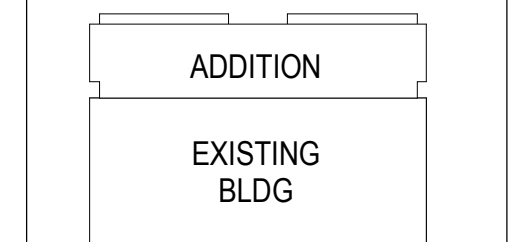


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NOTES
 1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATIONS AND HEIGHTS.
 2. REFER TO EC RACEWAY DRAWINGS FOR ADDITIONAL INFO.



KEYPLAN:



SCALE:

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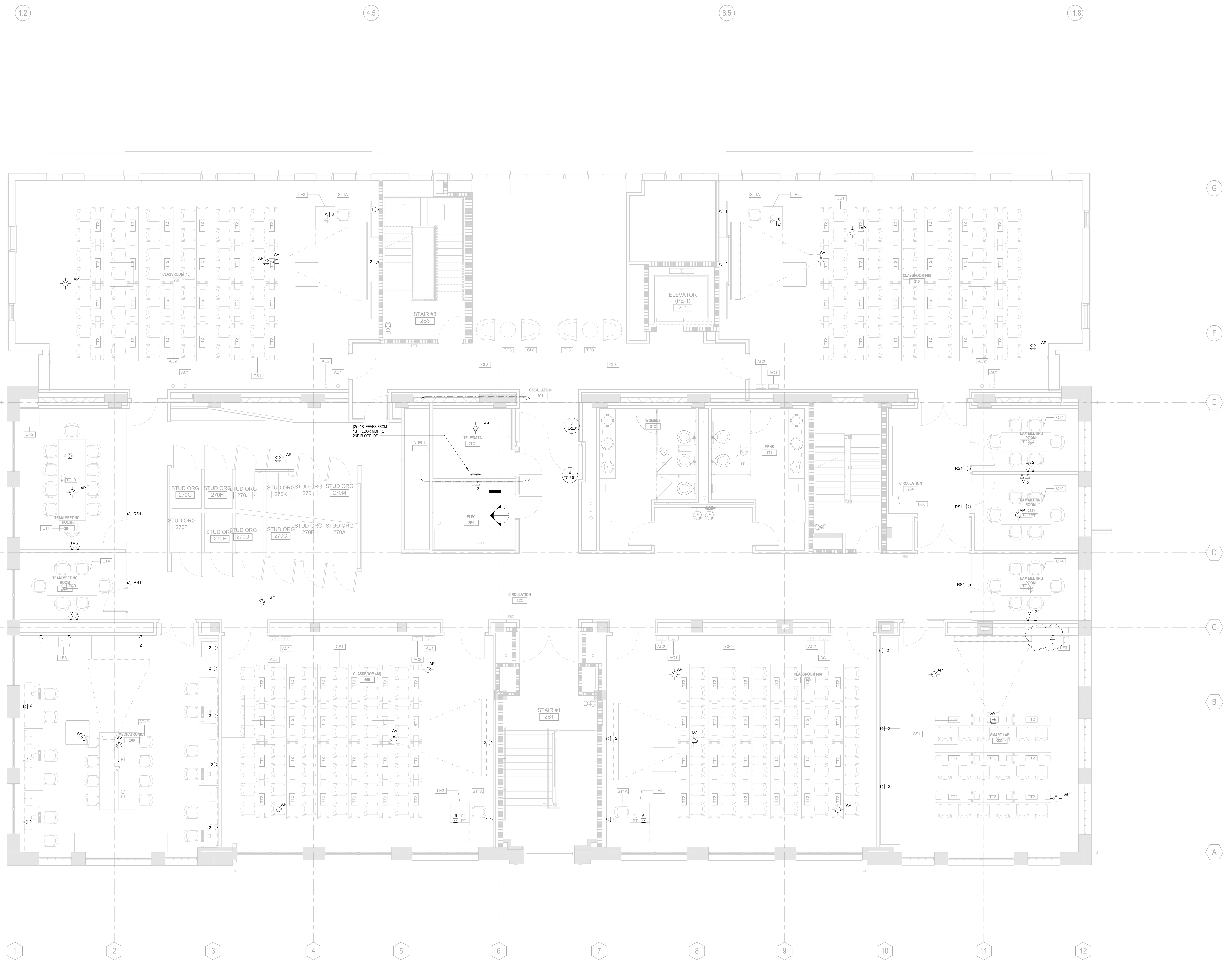
07/17/18 ISSUE 6
 08/17/18 ISSUE 9
 DRAWING ISSUE

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

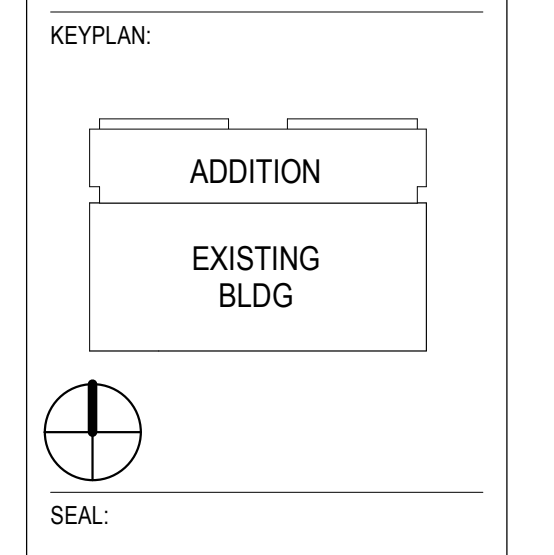
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 FIRST FLOOR
 TELECOMM PLAN

NUMBER:
 TC-1.01

NOTES
1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING LOCATIONS AND HEIGHTS.



1 TELECOMM LEVEL 2 FLOOR PLAN
1/4" = 1'-0"



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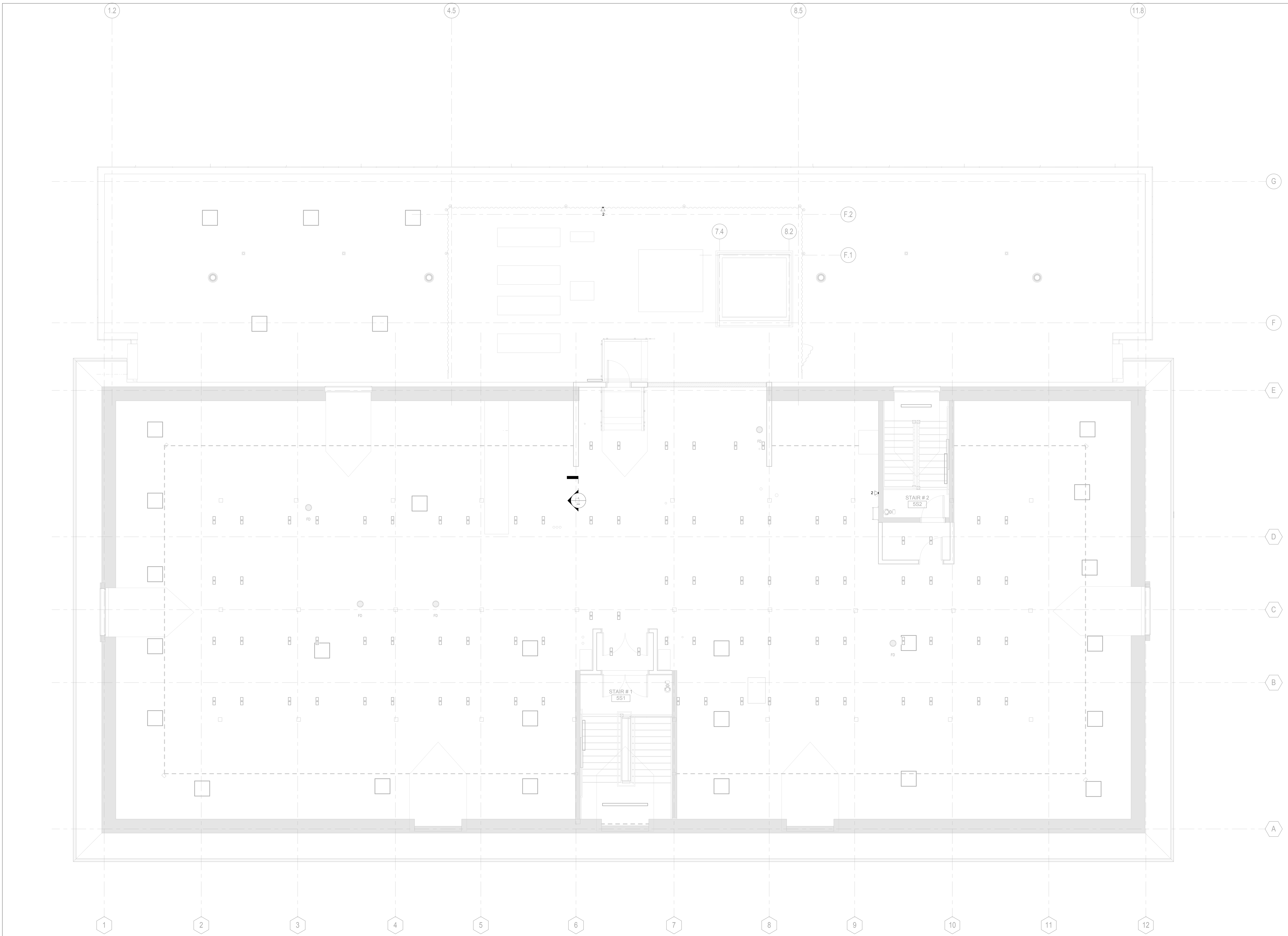
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07/17/18 ISSUE 6
08/17/18 ISSUE 9
DRAWING ISSUE

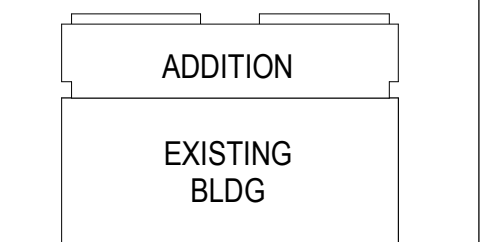
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TELECOMM

TITLE:
SECOND FLOOR
TELECOMM PLAN

NUMBER:
TC-1.02



KEYPLAN:



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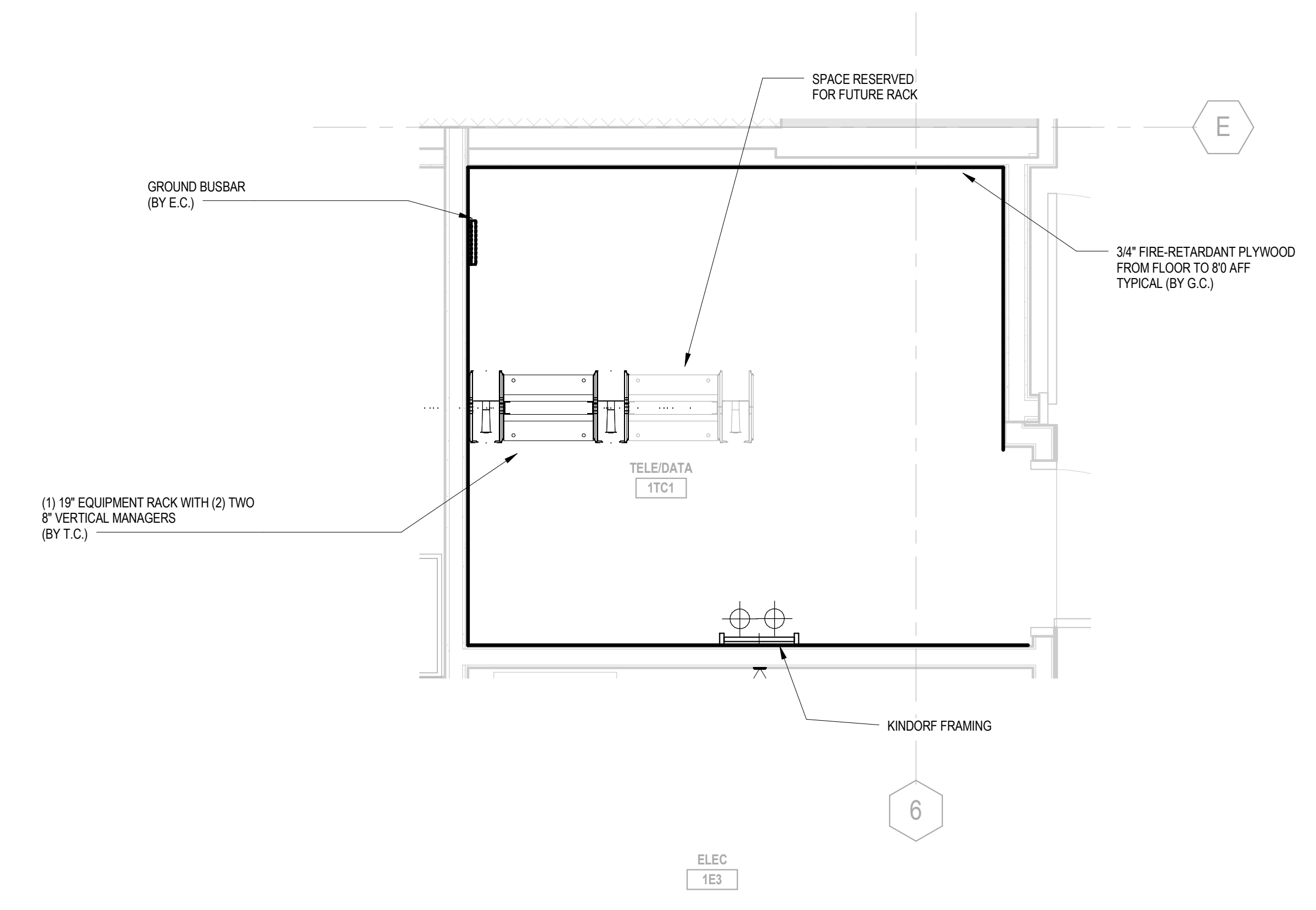
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SCALE: 1/4" = 1'-0"
TELECOMM

TITLE:
FIFTH FLOOR
TELECOMM PLAN

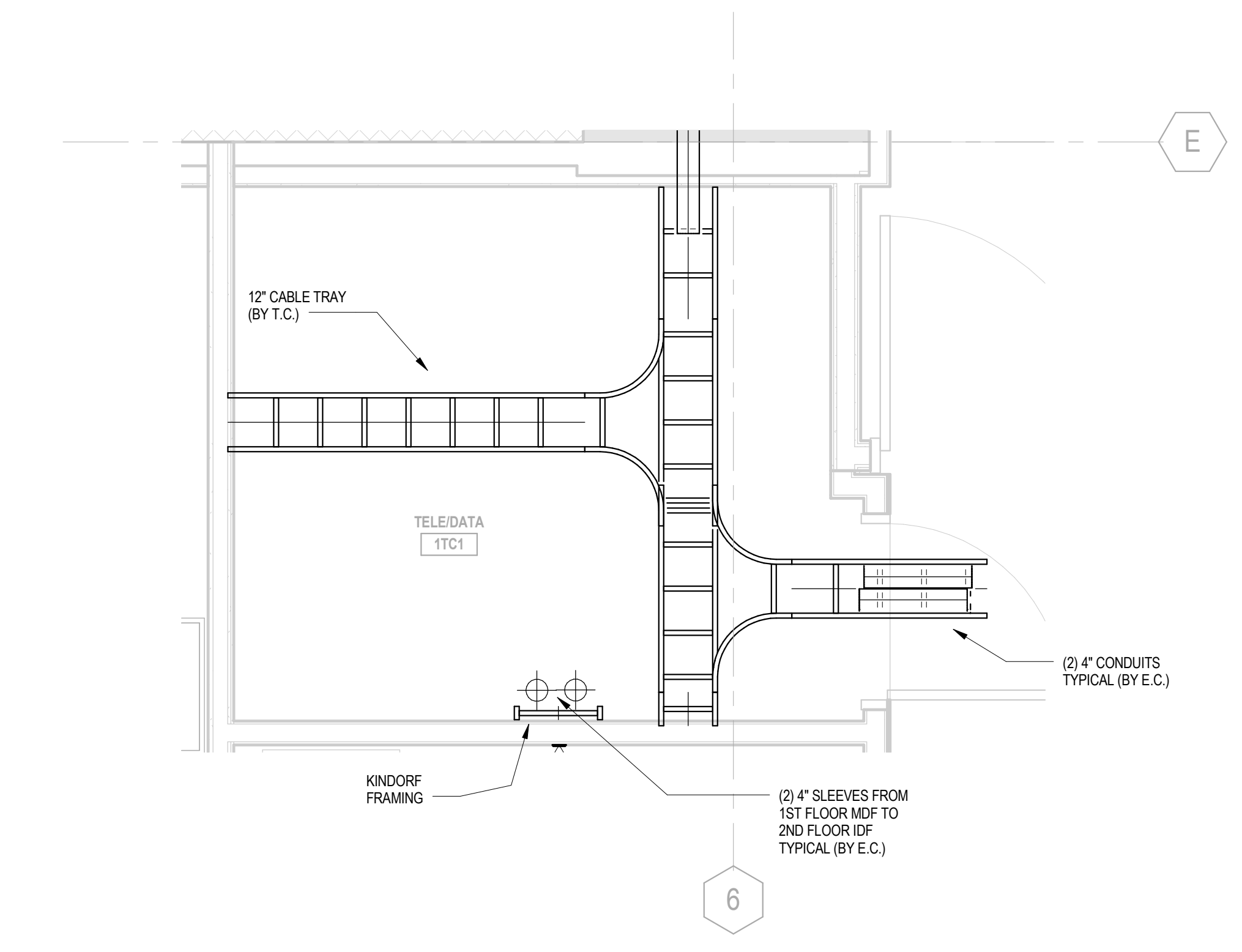
NUMBER:
TC-1.05

1 TELECOMM LEVEL 5 FLOOR PLAN
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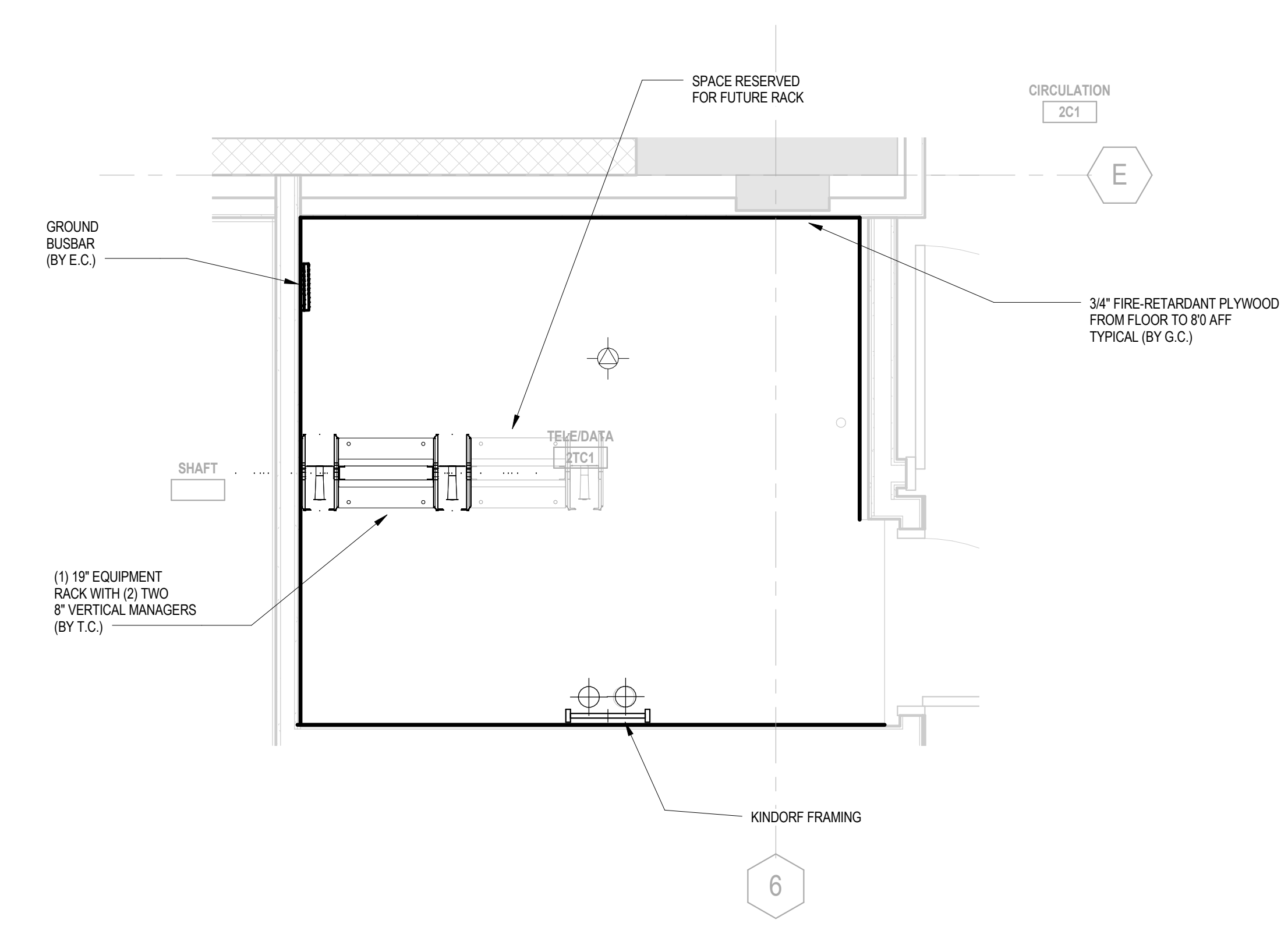
NOTES
1. REFER TO ELECTRICAL DRAWINGS FOR POWER RECEPTACLE AND TYPES.



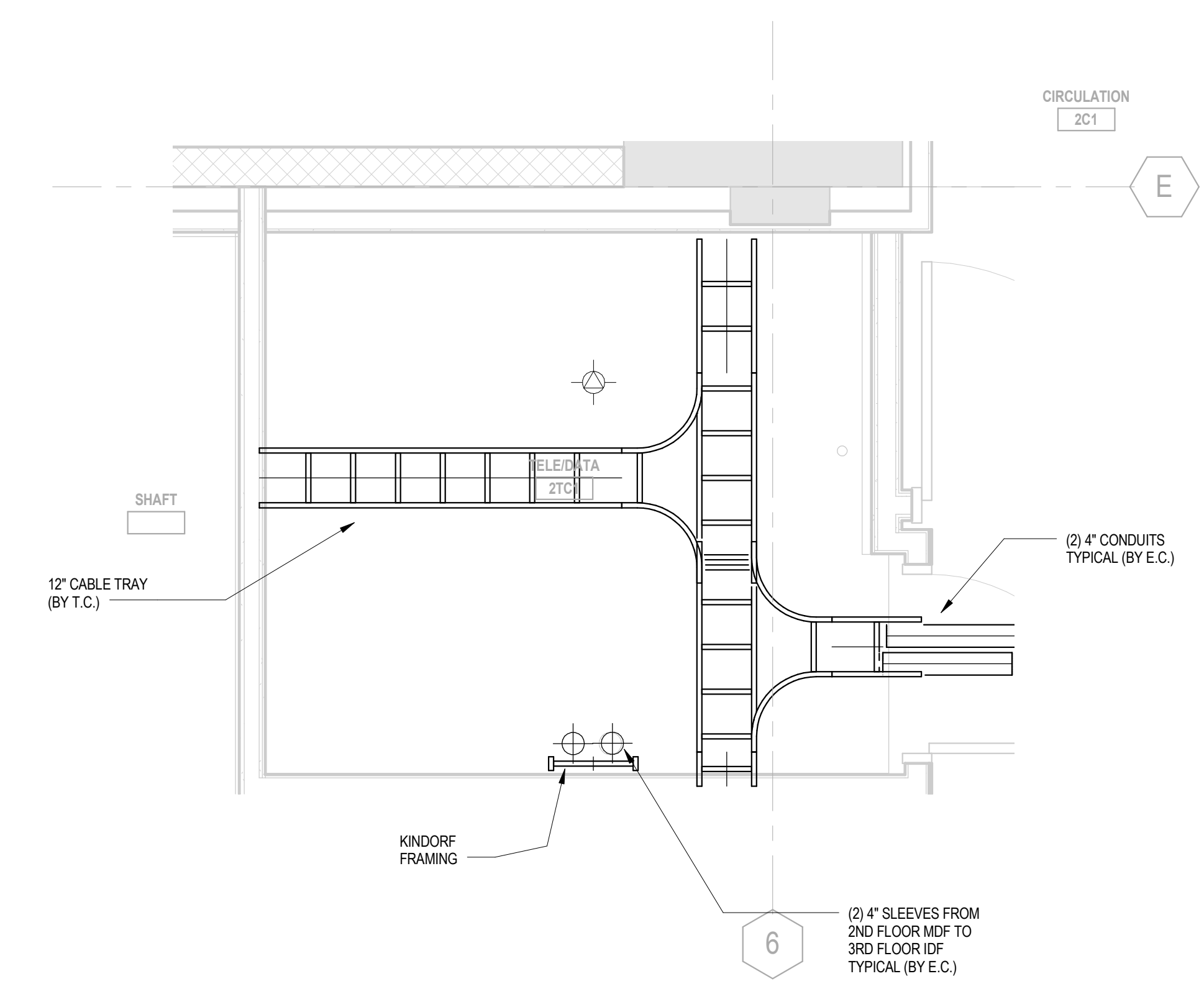
1 TELECOMM LEVEL 1 - MDF PLAN
1/2" = 1'-0"



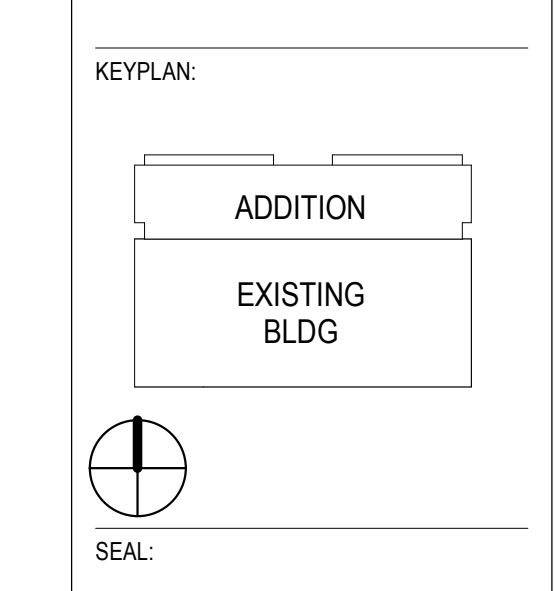
2 TELECOMM LEVEL 1 - MDF RCP PLAN
1/2" = 1'-0"



3 TELECOMM LEVEL 2,3,4 - IDF PLAN (TYPICAL)
1/2" = 1'-0"



4 TELECOMM LEVEL 2,3,4 - IDF RCP PLAN (TYPICAL)
1/2" = 1'-0"



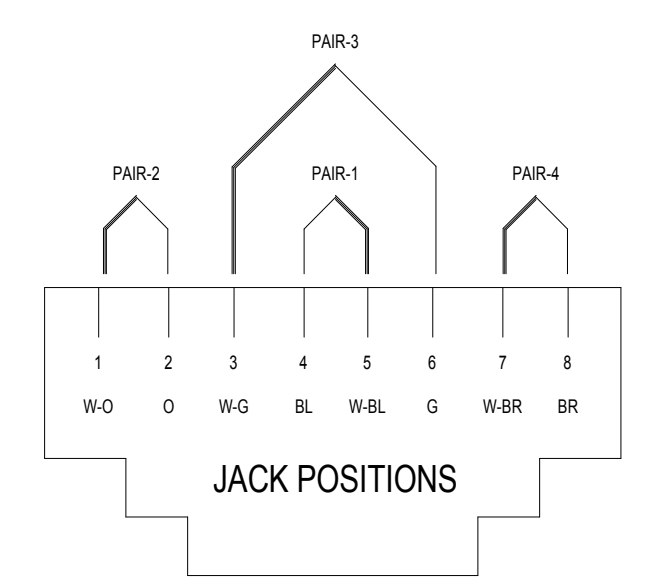
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DRAWING ISSUE

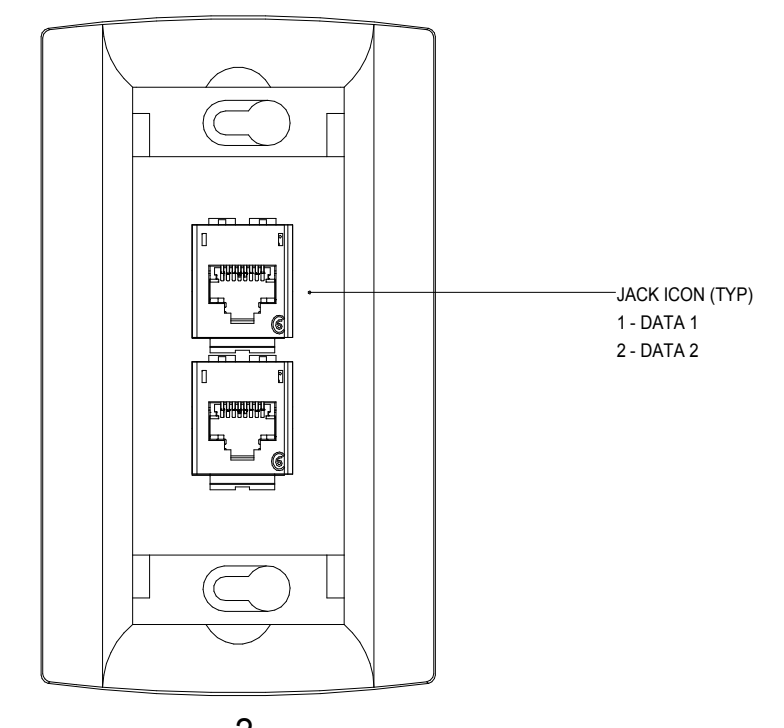
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TELECOMM

TITLE:
PARTS TELECOMM PLAN

NUMBER:
TC-2.01

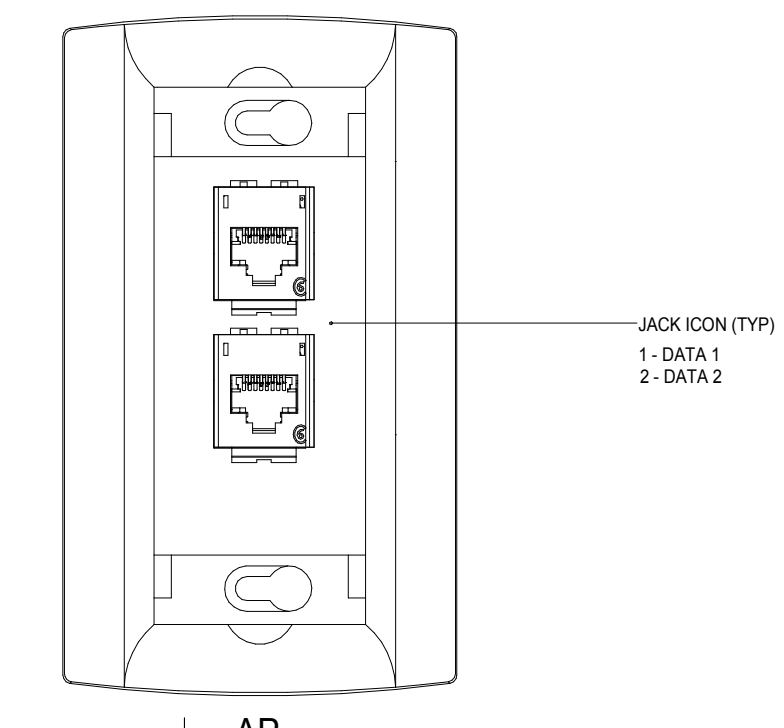


1 8 POSITION JACK PIN/PAIR ASSIGNMENTS (DESIGNATION T568B)
NO SCALE



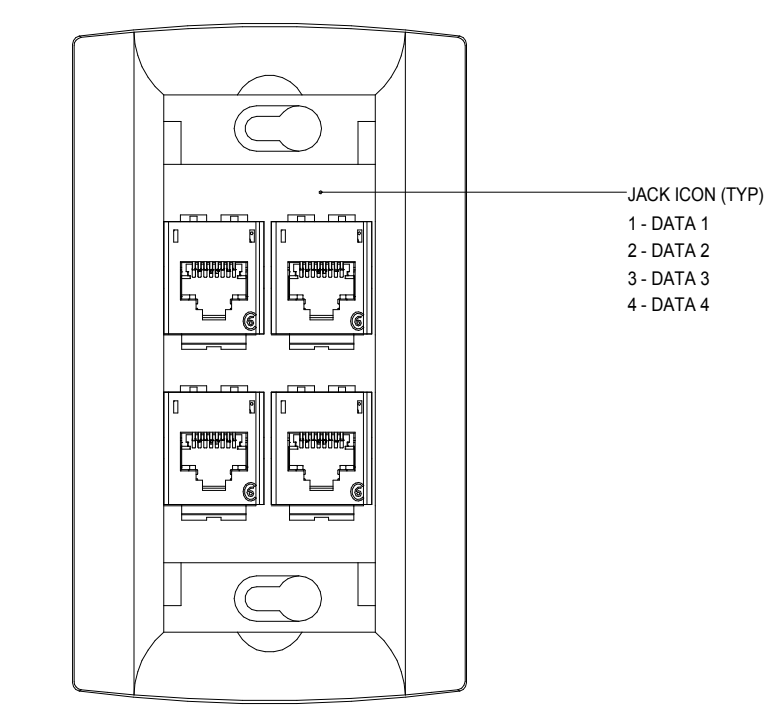
2 STANDARD, FLOOR MOUNTED, DATA OUTLET

- COMPONENT
(1) SINGLE GANG 2-PORT FACEPLATE
(2) 8PFC RJ45 CATEGORY 6A JACK



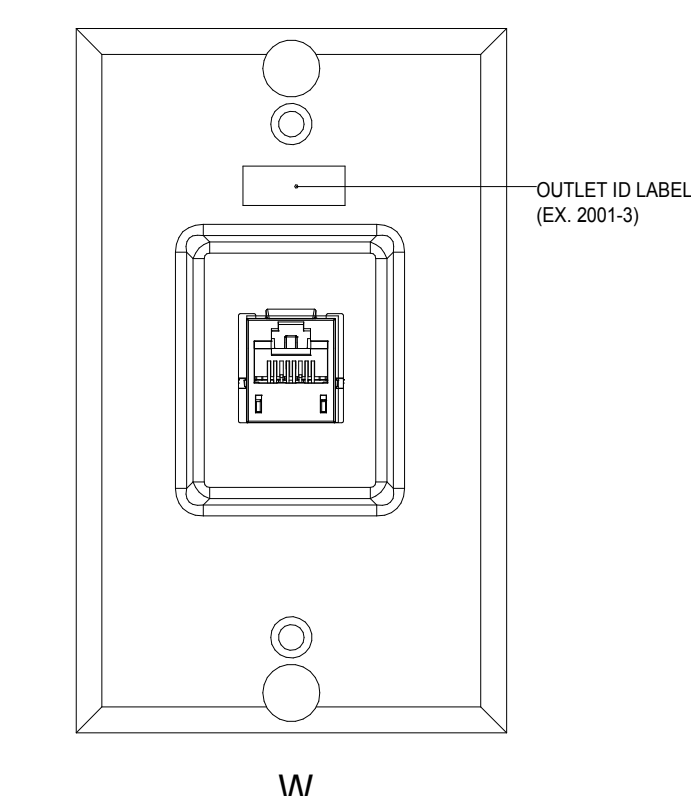
3 STANDARD, CEILING MOUNTED, DATA OUTLET

- COMPONENT
(1) SINGLE GANG 2-PORT FACEPLATE
(2) 8PFC RJ45 CATEGORY 6A JACK



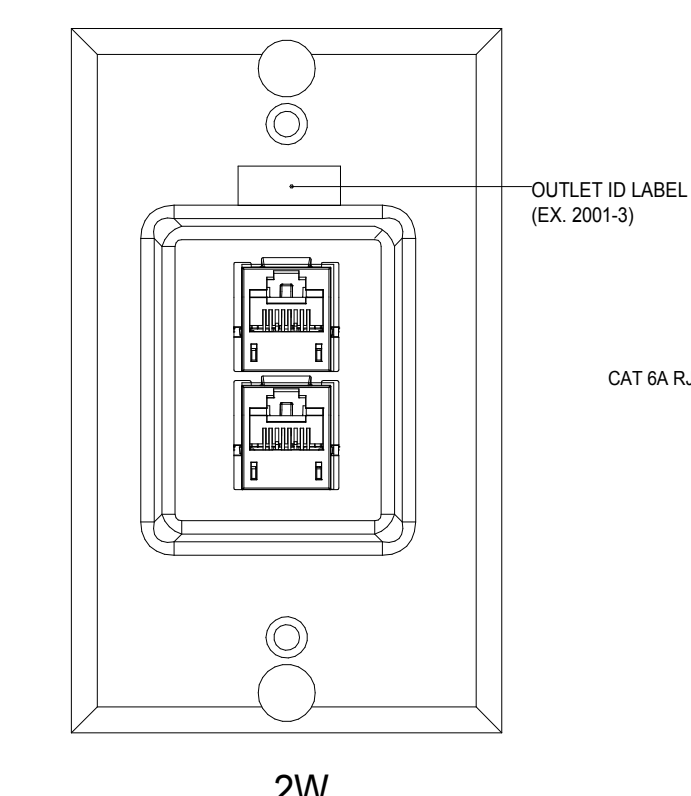
4 WALL MOUNTED, VOICE/DATA OUTLET

- COMPONENT
(1) SINGLE GANG 2-PORT FACEPLATE
(2) 8PFC RJ45 CATEGORY 6A JACK



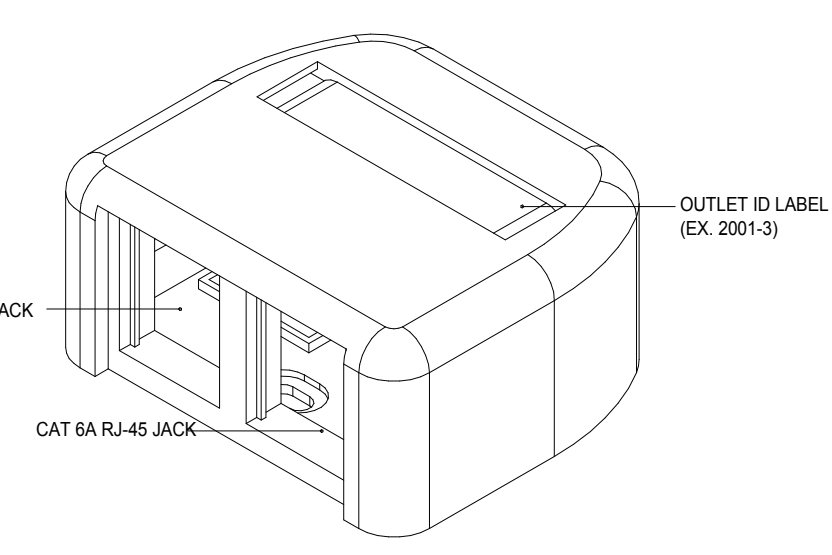
5 STANDARD, WALL MOUNTED, WALL PHONE OUTLET

- COMPONENT
(1) WALL PHONE FACEPLATE
(2) 8PFC RJ45 CATEGORY 6A JACK



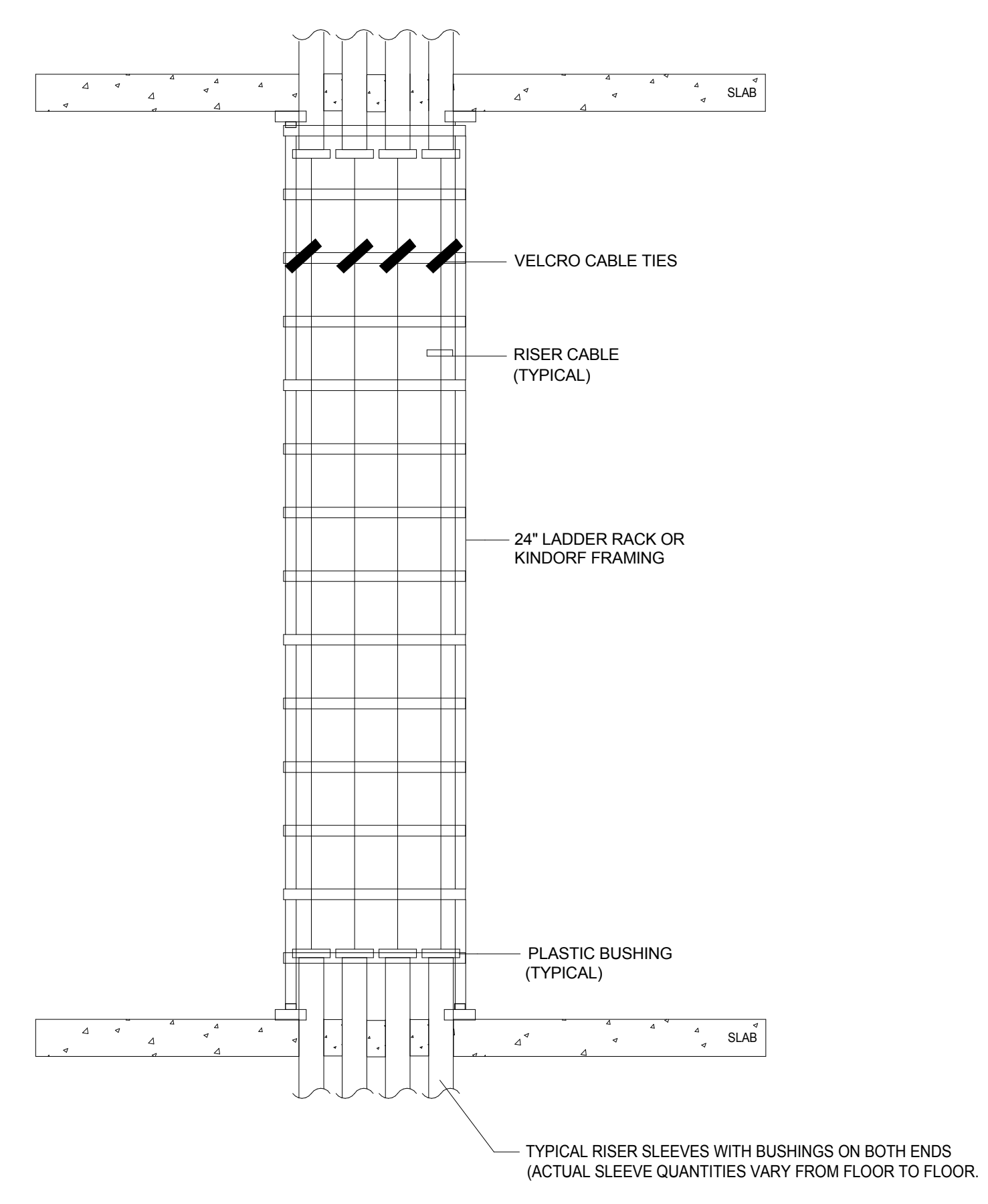
6 STANDARD, WALL MOUNTED, WALL PHONE OUTLET

- COMPONENT
(1) WALL PHONE FACEPLATE
(2) CAT 6A JACKS

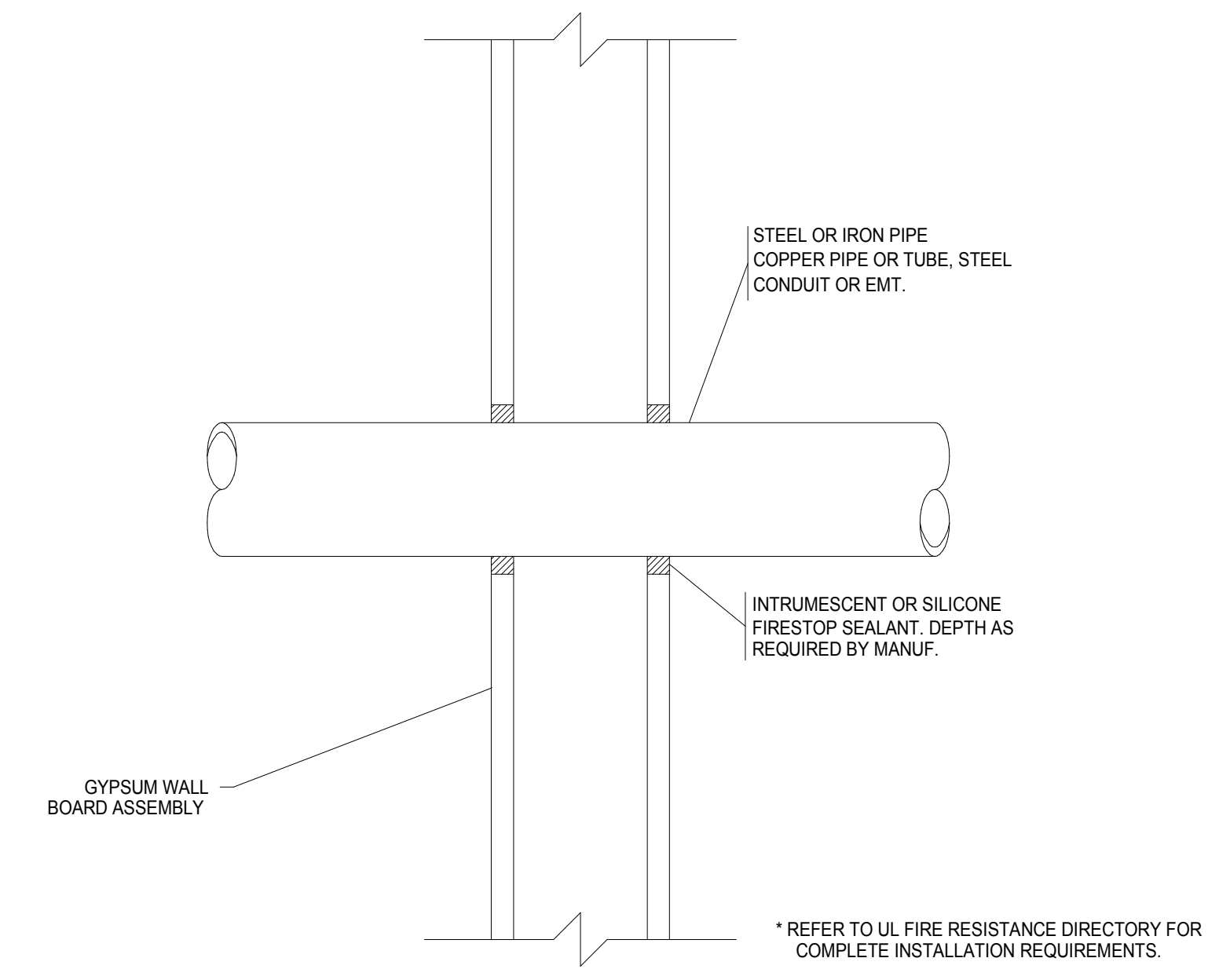


7 STANDARD, CEILING MOUNTED, 2-DATA OUTLETS

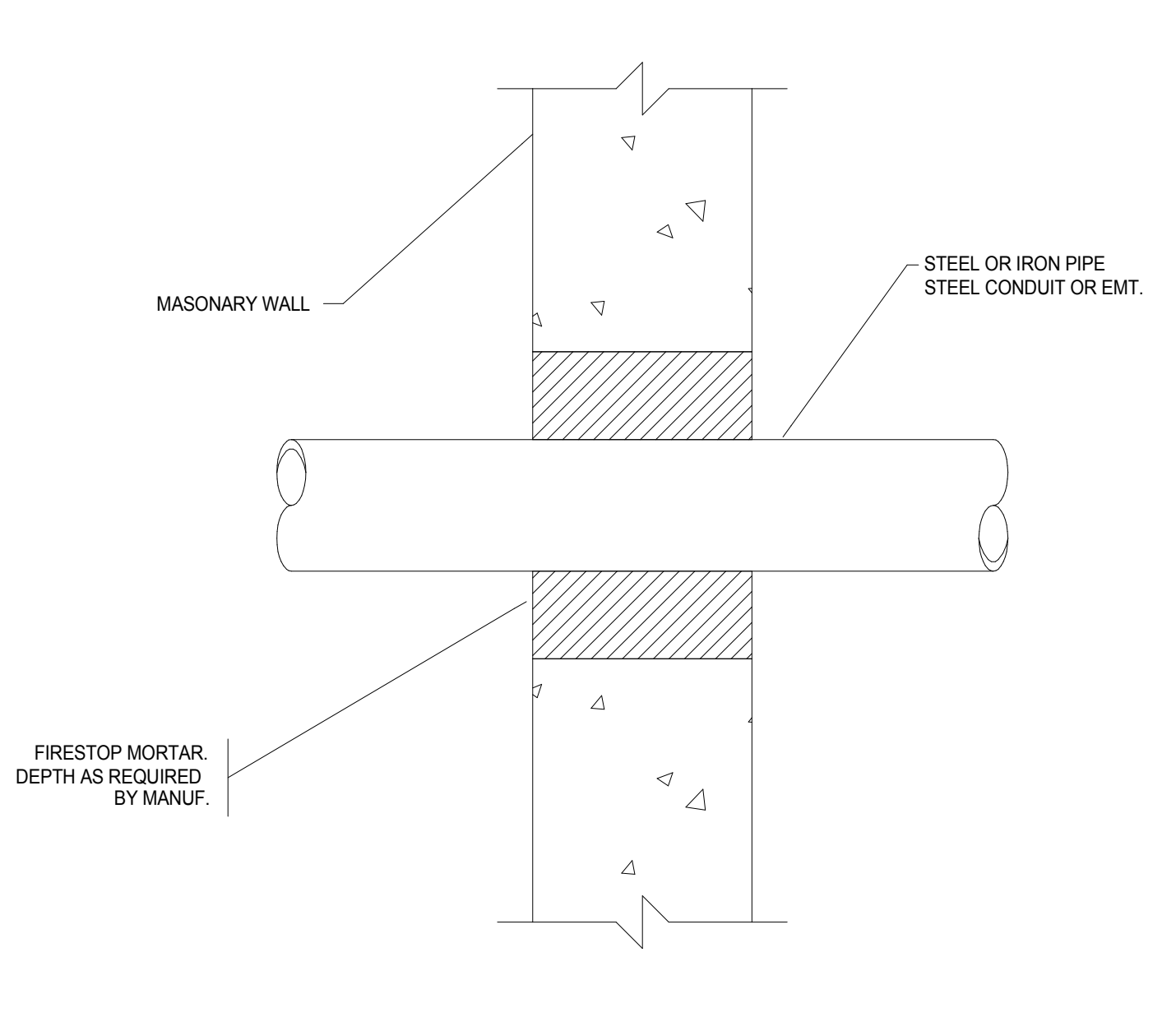
- COMPONENT
(1) 2-PORT SURFACE MTD RISER/OUT
(2) CAT 6A JACKS
(3) COLOR CODED CON
(4) CLEAR LABEL HOLDERS



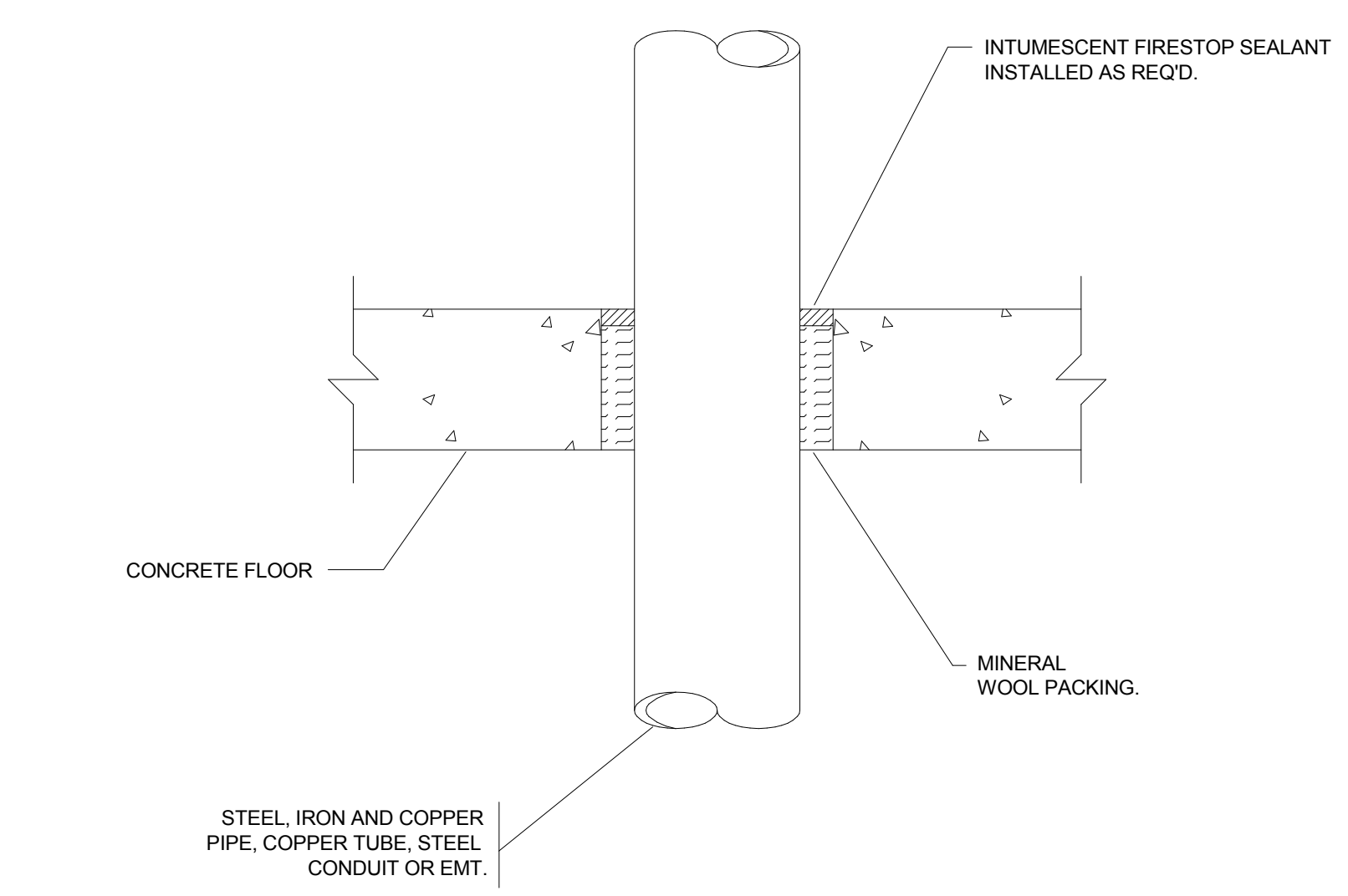
6 TYPICAL RISER CABLE SUPPORT DETAIL



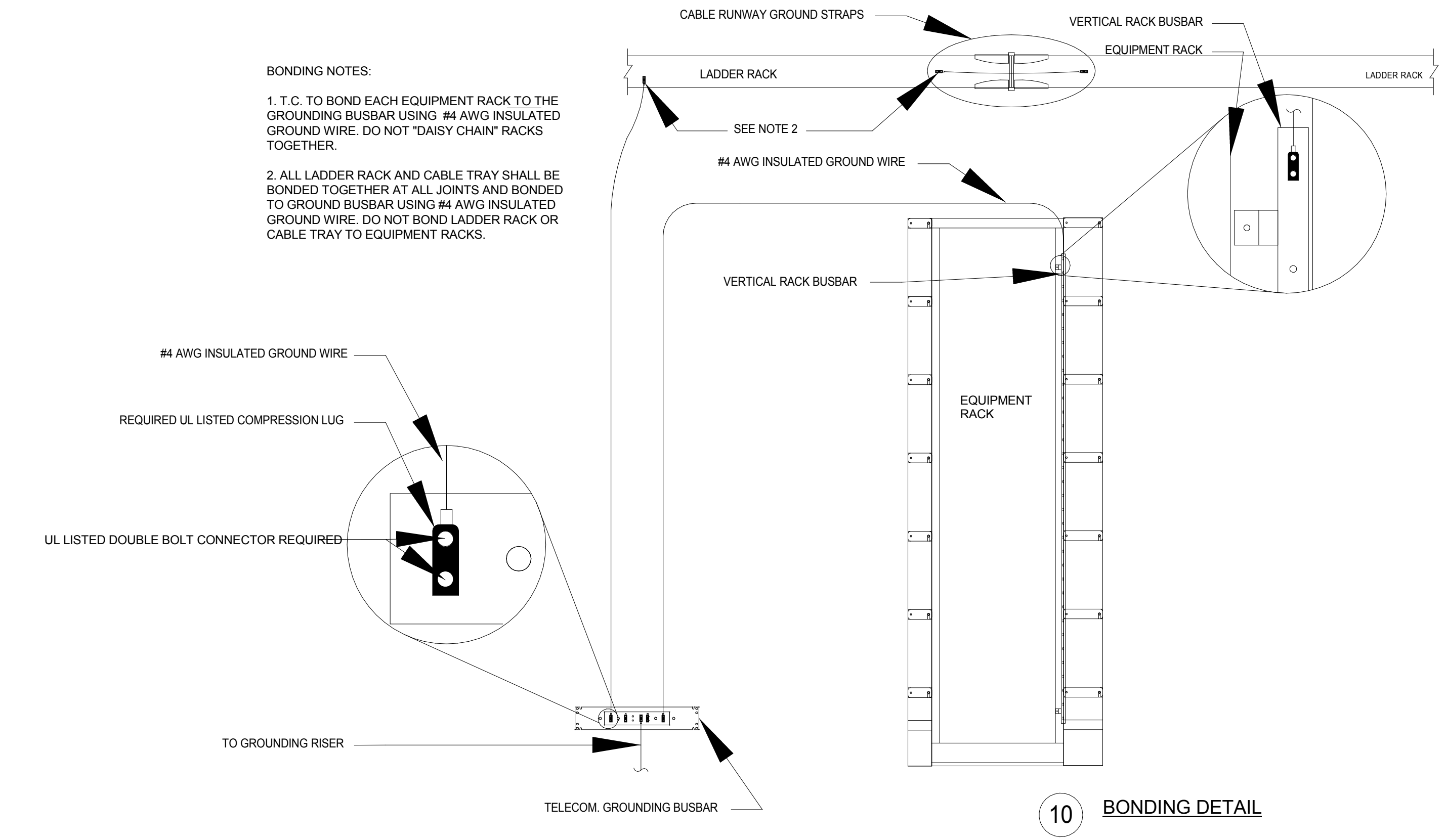
7 METALLIC PIPE THROUGH GYPSUM WALL BOARD WITH FIRE RATED SEALANT



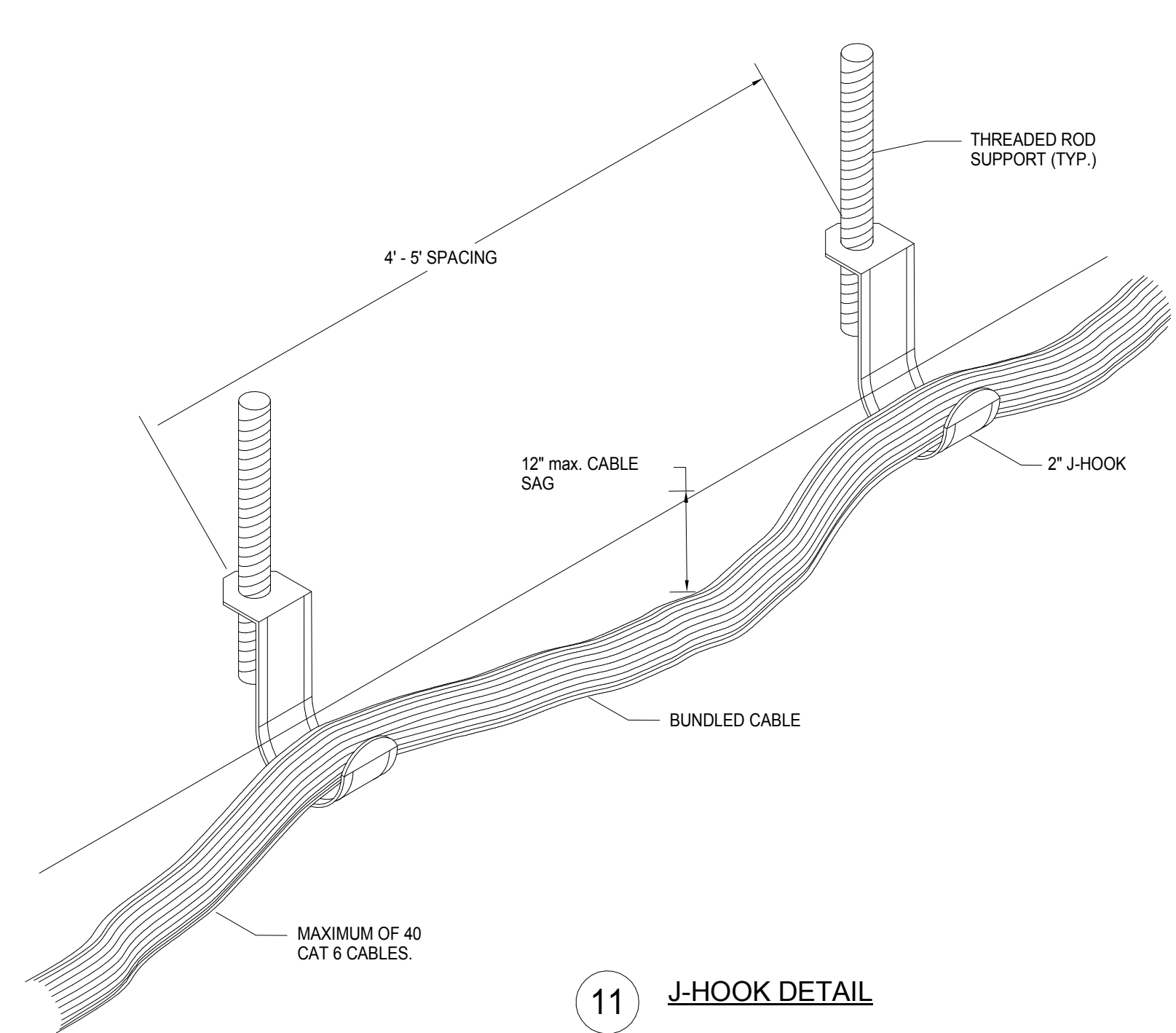
8 METALLIC PIPE THROUGH CONCRETE WALL WITH FIRE RATED SEALANT



9 METALLIC PIPE THROUGH CONCRETE FLOOR WITH FIRE RATED SEALANT

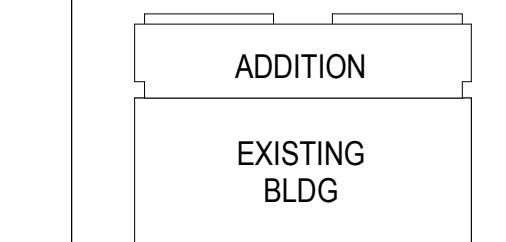


10 TELECOMM DETAILS
1/2" = 1'-0"



11 J-HOOK DETAIL

KEYPLAN:



SEAL:

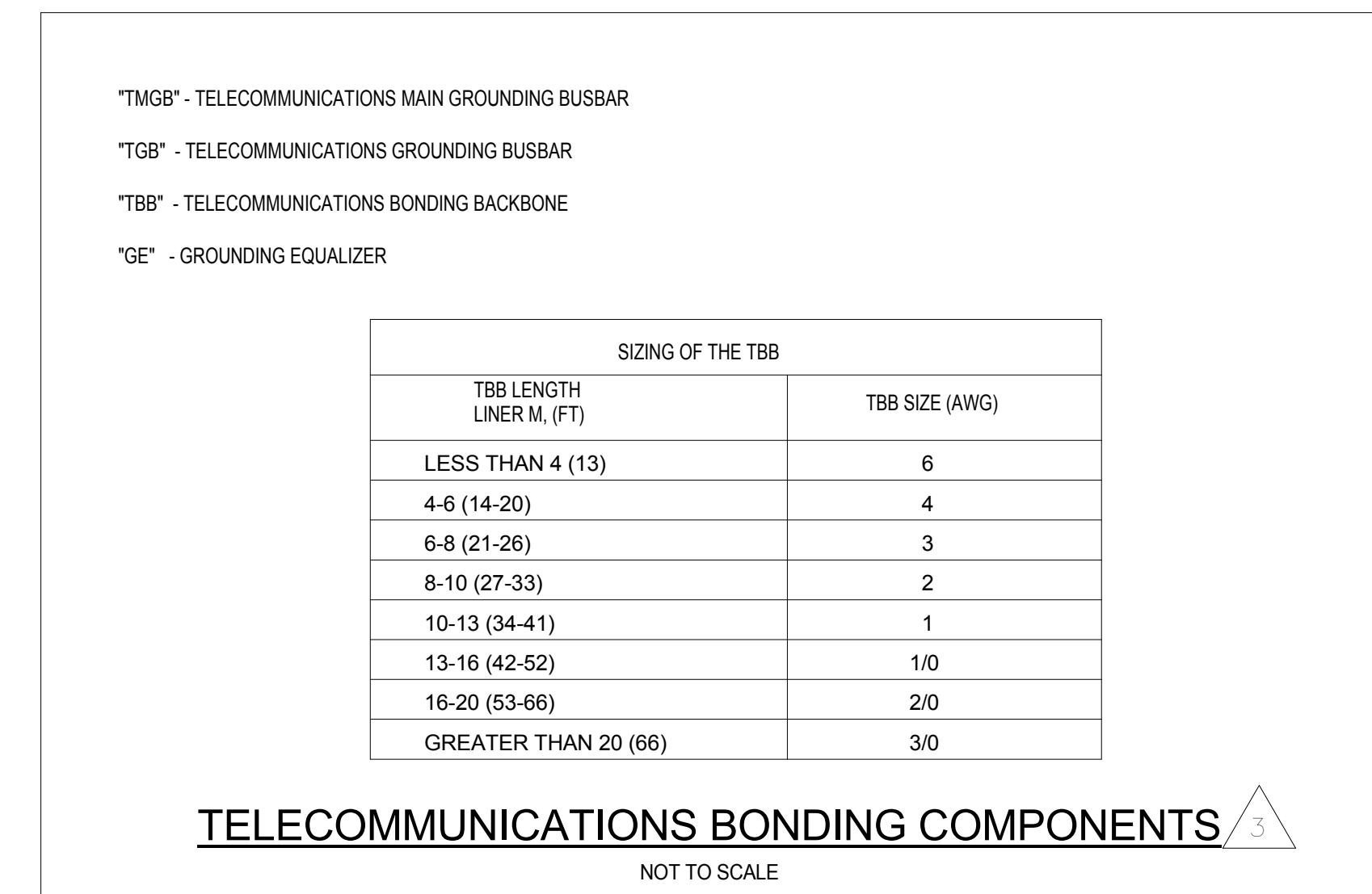
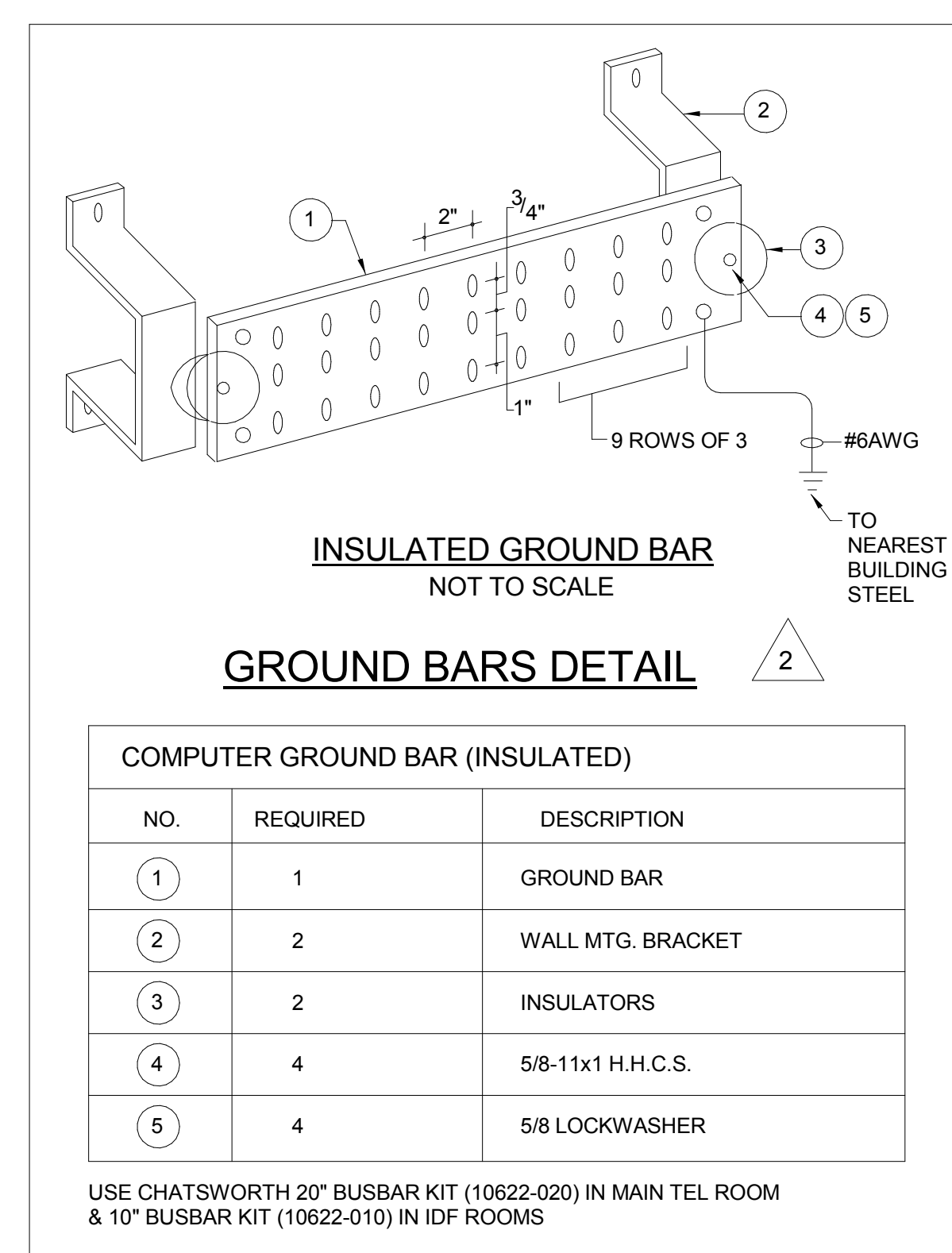
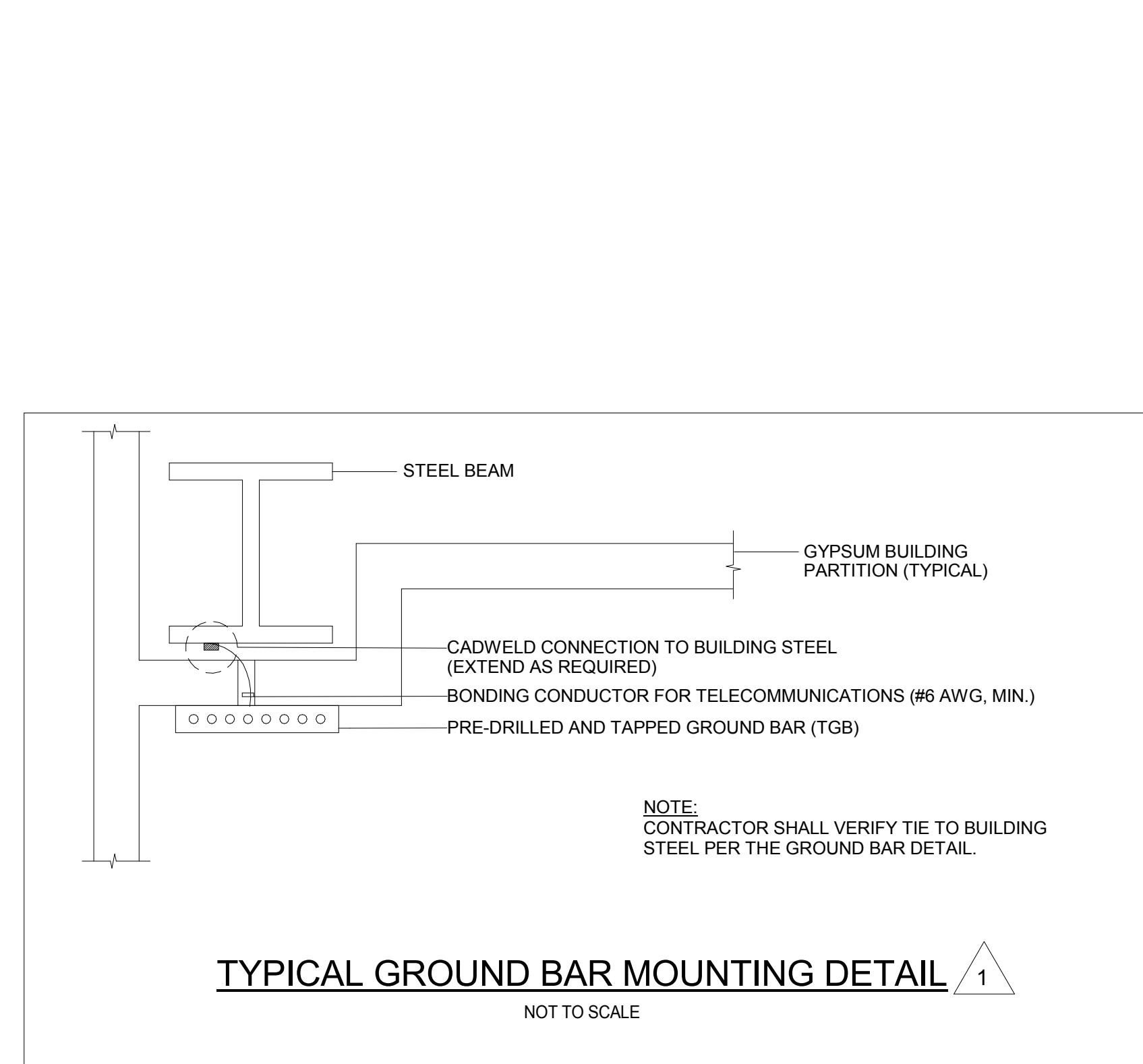
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07/17/18 ISSUE 6
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/2" = 1'-0"
TELECOMM

TITLE:
DETAILS TELECOMM PLAN

NUMBER:
TC-3.01



GENERAL NOTES

1. ALL CONDUIT RACEWAYS AND PULL BOXES SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COMMUNICATIONS WIRING SHALL BE PROVIDED BY THE COMMUNICATIONS WIRING CONTRACTOR.
2. ELECTRICAL BASIC MATERIAL, INSTALLATION METHODS AND GENERAL CONDITIONS SHALL BE THE SAME AS THE ELECTRICAL SPECIFICATION, UNLESS OTHERWISE NOTED.
3. CONDUIT REQUIREMENTS SHOWN ON THE DRAWING ARE FOR COMMUNICATIONS USE. RADIUS OF EACH CONDUIT BEND SHALL NOT BE LESS THAN TEN TIMES THE DIAMETER OF THE CONDUIT. IN ADDITION, PULL BOX IS REQUIRED FOR EACH SECTION OF CONDUIT THAT EXCEEDS A TOTAL OF 100' BEND OR 100 FEET. PULL BOXES SHALL NOT BE USED FOR A CHANGE IN DIRECTION OF THE CABLE.
4. SEE PULL BOXES ACCORDING TO ANSI/NECA-IBEW SECTION 2.2.2 GUIDELINES.
5. EACH CONDUIT SLEEVE SHALL HAVE BURNING BRES AND ONE FULL STRONG MINIMUM INSTALLED. NOTE: THE CONTRACTOR SHALL PULL ANOTHER FULL STRONG ALONG WITH THE CABLING WHEN IT IS PLACED.

RISER SUMMARY

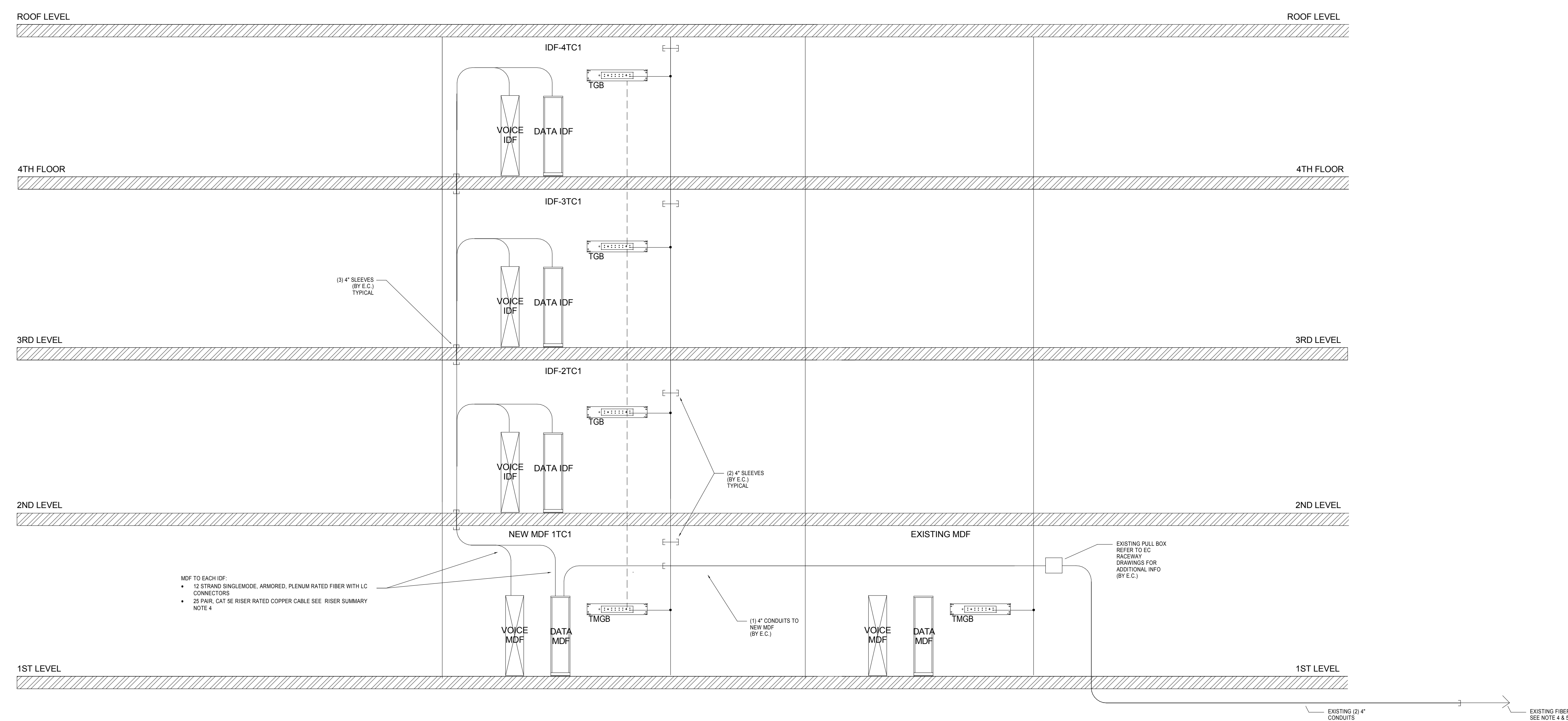
1. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE (1) 25 PAIR CAT6 COOPER CABLE FROM MDF ROOM TO EACH IDF ROOM THROUGHOUT THE BUILDING. COORDINATE WITH THE TELECOM DEPT ON WHERE TO TERMINATE CABLES.
2. THE COMMUNICATIONS CONTRACTOR SHALL PROVIDE (1) 10 STRAND 6.375 INCH BUNDLE, ARMORED FIBER OPTIC CABLE FROM THE 4TH FLOOR TO EACH IDF ROOM THROUGHOUT THE BUILDING.
3. T.C. TO TERMINATE 25 PAIR CAT 6E CABLE ON PORT ANKLED PATCH PANELS.

RISER NOTES

1. VOICE AND DATA RISER CABLES SHALL ALL BE RUN IN SEPARATE CONDUIT SLEEVES.
2. LABEL CONDUITS BASED UPON INTENTED USAGE (i.e., VOICE, DATA, CATV, FUTURE, etc.)
3. PROVIDE FIRE PROOFING FOR ALL CONDUITS AND SLEEVES.
4. PRIOR TO EXISTING WOF DEMOLITION, T.C. TO PULL BACK EXISTING FIBER AND COPPER TO THE TELECOM MANHOLE AND PROTECT CABLES.
5. AFTER EXISTING WOF DEMOLITION, T.C. TO PULL EXISTING FIBER TO THE NEW WOF ONCE THE ROOMS HAVE BEEN FINISHED AND RACKS/WIRE BEING INSTALLED.

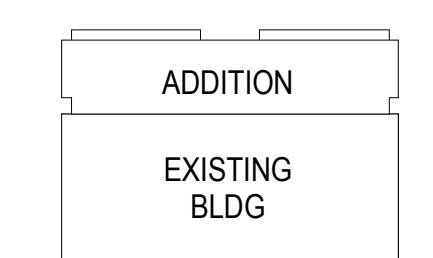
GROUNDING NOTES

1. ALL GROUND WIRE FOR TELECOMMUNICATIONS GROUNDING & BONDING SYSTEM TO BE RUN IN A SEPARATE 1" CONDUIT.
2. ALL GROUND BARS, WIRE, ASSOCIATED CONDUIT & MATERIALS TO BE PROVIDED BY ELECTRICAL CONTRACTOR. LOCATION OF GROUND BARS TO BE COORDINATED WITH TELECOMMUNICATIONS DRAWINGS.
3. GROUNDING OF ALL TELECOMMUNICATIONS COMPONENTS TO BE PERFORMED BY TELECOMMUNICATIONS CONTRACTOR.
4. ALL TELECOM ROOMS SHALL BE TIED BACK TO THE MAIN TELECOM ROOM (MDF) WITH A #4 AWG GROUND WIRE OR MAIN ELECTRICAL GROUND.



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

KEYPLAN:



SEAL:

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07/17/18 ISSUE 6
DRAWING ISSUE

PROJECT: 15085.11
SCALE: 1/8" = 1'-0"
TELECOMM

TITLE:
RISER DIAGRAM
TELECOMM PLAN

NUMBER:
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