

Review Comments

Project: Brighton Recovery Campus-Building E From: Jason Worthen
Project No: 20160686 Date: February 24,2017

DISCIPLINES
Mechanical Engineering
Electrical Engineering
Technology Design
Acoustical Engineering
Lighting Design
Theatre Design
Fire Protection Engineering
Building Commissioning

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Houses of Worship Special Projects

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BUILDING E RESPONSES

E1. IBC 907.2.11.5 requires that all smoke detectors be interconnected such that when one is activated it will activate all alarms.

Response: Added the following note regarding the residential smoke detectors: "All residential smoke detectors and carbon monoxide detectors will be interconnected, will connect to a 120 volt building circuit and have battery backup. When one smoke detector is activated, all residential smoke detectors shall sound". Circuiting has been added to FA11E.

E2. IBC 907.2.11.6 requires that smoke detectors receive their primary power from building wiring and that they are provided with battery backup.

Response: Residential smoke detectors will receive power from building 120 volt circuit (Added circuiting on FA11E). Added general note to provide battery backup with detector.

E3. As amended by the State of Utah carbon monoxide detectors shall receive their primary power supply from the building and be provided with battery backup. Where multiple detectors are provided, they are required to be interconnected such that all will sound when any one is activated.

Response: Added carbon monoxide detectors in common areas. Added note calling for all carbon monoxide detectors be provided with battery backup and be circuited/interconnected with residential smoke detectors such that all will sound when any one is activated.

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E4. Please note that tamper resistant receptacles are required. NEC 410.12A

Response: Added a general note that all receptacles are to be tamper resistant to sheets EP11E and EP401.

E5. Please note that Arc-Fault Circuit interrupters are required in guest suites. NEC 210-12 Response: General note on sheet EP11E and EP401 requires that all circuits feeding 15 amp or 20 amp receptacles must be protected by an AFCI type circuit breaker.

E6. Sheet EP401: Please address the following: Receptacle outlet spacing in guest, rooms, guest suites, and similar occupancies shall conform to NEC Article 210.60A.

Response: Details 1,3&4: Relocated one receptacle and added one receptacle in order to meet spacing requirements. Details 2: Relocated one receptacle and added two receptacles in order to meet spacing requirements.

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E7. Please address the following.

A. Locations of main disconnect panel.

I. Please Provide information showing how the electrical meters will be supported and secured.

Response: Added keyed note to provide backing and mount Meter/CT and main service disconnect to building exterior wall.

E8. Sheet EP601: Please note and verify location of the concrete encased grounding electrode.

Response: Modified grounding electrode circuiting on one-line diagram (EP601) instructing the contractor to connect the new services ground bus to the building existing grounding electrode system.

If there is an existing UFER system, the new service will be connected to it. However, a new UFER grounding electrode will not be installed.

E9. Please note on electrical roof top plan WP GFCI for RTU units per NEC 210.63.

Response: Provided 120 volt circuit to all rooftop units for GFI WP receptacle that will be provided with unit.

E10. Please provide complete and detailed available fault current calculations (in accordance with NEC 110.9 and 110.10) and show the following on the plans:

I. Specify the KVA rating and impedance of the utility transformer. If this information cannot be obtained from the power company, please base the calculations off of the worst case scenario per the infinite bus method using the largest KVA rated transformer required for the service and figure such transformer with an impedance of 2% or less.

Response: Added impedance of the utility transformer to one-line diagram. KVA rating is already shown.

II. Show lengths and types of all conductors in the calculations and specify the resistance of such.

Response: Conductor types are shown on the one-line diagram. Refer to attached table for lengths and resistances.

III. Specify the amount of available fault current that could be provided to each panel and each piece of electrical equipment based on the calculations.

Response: This information is shown in the fault current table on EP601.

- IV. Show the fault current rating of each switchgear and each panelboard.

 Response: Added the AIC rating for each panel to the panel schedules.
- V. Specify on the plans the short circuit ratings of all overcurrent protection devices, or add a note on the plans that all overcurrent protective devices will have the same fault current rating as the rating of the panel or switchgear they are located within.

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Response: Added general note to EP601 calling for all overcurrent protective devices to have the same AIC rating as the panel or gear they are located within.

VI. Please indicate on the plans that the calculated available fault current that could be provided to each equipment will be field marked as required by NEC110.24(A).

Response: Added a general note to EP601 requiring that all electrical equipment be field marked with the calculated available fault current.

E11. Sheet EP11E: Please address the following:

A. Receptacles shall be located for use on kitchen island.

Response: Added two duplex receptacles to each kitchen island.

B. Receptacle outlets within kitchen shall be GFCI protected.

Response: Changed receptacles in the kitchen to GFCI receptacles.

C. Dishwasher shall be GFCI protected.

Response: Changed electrical connections for dishwasher and garbage disposal to be GFCI duplex receptacles.

E12. Please coordinate with the Architect for the hood requirements for the range. There seems to be none addressed.

Response: Added circuiting for range hood.

N2. B. Sheet EL601: Recessed lighting shall be IC rated and airtight if penetrating the air or thermal barriers per IECC C402.5.8.

Response: Modified all can lights to be IC rated.

N2. F. Per IECC C405.2.2, for lighting which is not provided with an occupancy sensor control please provide time-switch controls to automatically shut off lighting.

Response: Lighting is provided with occupancy sensors.

N2. G. Please provide a lighting power analysis for the interior lighting in accordance with IECC C405.4.

Response: See attached ComCheck report.

N2. H. Please clarify how the exterior lighting for this project will be controlled. Verify that lighting controls will meet the requirements of IECC C405.2.5.

Response: Per sheet EP603 exterior lighting will be controlled via a lighting control panel based on input from exterior photo cells.

N2. I. Please provide a lighting power analysis for the exterior lighting in accordance with IECC C405.5.1.

Response: See attached ComCheck report.

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BUILDING E DRAWINGS

EP11E (see attached sheet)

- 1. Added a general note requiring all receptacles to be tamper resistant.
- 2. Changed two duplex receptacles in the kitchen to be GFCI receptacles.
- 3. Added a 120V circuit for range hood.
- 4. Added one 120V circuit for receptacles provided with roof top units and modified key note #1.
 - 5. Added two duplex receptacles to each kitchen island.
- 6. Changed the electrical connections for the garbage disposal and the dishwasher to be dedicated GFCI receptacles.
 - 7. Added a GFCI receptacle in custodian closet by the gathering area.
 - 8. Added a GFCI receptacle in Men's Toilet.
 - 9. Relocated serving center outlets to new serving center location.
 - 10. Added a drinking fountain receptacle.
 - 11. Added panel LE2.
 - 12. Moved circuits for the gathering area to new panel LE2.

EP401 (see attached sheet)

- 1. Added a general note requiring all receptacles to be tamper resistant.
- 2. Detail 1:
 - a. Moved duplex receptacle near closet door to the outer wall.
 - b. Added a duplex receptacle on the bottom wall.
- 3. Detail 2:
 - a. Added one duplex receptacle on the top wall.
 - b. Relocated duplex receptacle on the wall shared with the closet to the left wall.
- 4. Detail 4:

bed.

- a. Moved duplex receptacle on the left wall at the foot of the bed closer to the
 - b. Added a duplex receptacle on the bottom wall.

EP601 (see attached sheet)

- 1. Added impedance for the transformer that was used for fault current calculations.
- 2. Added general note calling for all overcurrent protective devices to have the same AIC rating as the panel or gear they are located within.
- 3. Added a general note requiring that all electrical equipment be field marked with the calculated available fault current.
 - 4. Changed one-line diagram to shown the grounding electrodes as existing.
- 5. Changed all branch circuit panels from main lugs only to main circuit breaker panels.
 - 6. Added panel LE2.

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EP602 (see attached sheet)

- 1. Added panel AIC ratings to panel schedules.
- 2. Changed branch panels to have main circuit breakers.
- 3. Updated panel schedules.

DISCIPLINES EP6

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EP603 (see attached sheet)

- 1. Added panel AIC ratings to panel schedules.
- 2. Changed branch panels to have main circuit breakers.
- 3. Updated panel schedules.
- 4. Added panel schedule for panel LE2.

EL11E (see attached sheet)

- 1. Added keynote next to occupancy sensors in gathering/learning area requiring that the occupancy sensors not turn on the lights to more than 50%.
- 2. Deleted general note requiring occupancy sensors to turn lights on to not more than 50%.
 - 3. Added general note calling for photocells to be set to 30 foot candles.
 - 4. Deleted one W-2 fixtures in the gathering area.
 - 5. Shifted W-3 and switch to line up with new storage room location.
 - 6. Added a TX-4 fixture in custodian's closet.
- 7. Added a WS-2 fixture, DX-2 fixture and a wall mounted occupancy sensor in new Men's Toilet.

EL601 (see attached sheet)

1. Changed the acceptable fixture types for DX-1, DX-2 and DX-4 fixtures.

FA11E (see attached sheet)

1. Added a camera covering on entrance into the common area.

FA11E (see attached sheet)

- 1. Added a general note calling for all smoke detectors and carbon monoxide detectors to be interconnected, connected to a 120V circuit and have battery backup.
 - 2. Added carbon monoxide detectors, one in each common area.
- 3. Added circuiting for residential smoke detectors and carbon monoxide detectors.
 - 4. Added a strobe in new Men's Toilet.

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Component Name	Length (ft)	Rpos (Ohms/1000 ft)	Xpos (Ohms/1000 ft)	Rzero (Ohms/1000 ft)	Rzero (Ohms/1000 ft)
MDP - LA	5	0.064	0.0497	0.2017	0.1224
MDP - LB	82	0.064	0.0497	0.2017	0.1224
MDP - LC	120	0.0805	0.0519	0.2537	0.1278
MDP - LD	138	0.0552	0.0495	0.1739	0.1219
MDP - LE	155	0.0552	0.0495	0.1739	0.1219
MDP - LF	100	0.064	0.0497	0.2017	0.1224
METER/CT - MDP	5	0.0356	0.049	0.1122	0.1206
XFMR - METER/CT	75	0.0356	0.049	0.1122	0.1206

COMcheck Software Version 4.0.5.2



Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: Brighton Recovery Campus Bulding E

Project Type: **New Construction**

Construction Site: Owner/Agent: Designer/Contractor:

4931 South 900 East

Additional Efficiency Package

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Electrical/Mechanical	75	0.85	64
2-Common Space Types:Storage	80	0.57	46
3-Common Space Types:Classroom/Lecture/Training	1310	1.12	1467
1-Common Space Types:Electrical/Mechanical 2-Common Space Types:Storage	50	0.88	44
		Total Allowed Watts =	= 1621

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Common Space Types:Electrical/Mechanical W-3 copy 1: W-3: LINEAR SURFACE MOUNT: Other:	1	2	48	96
2-Common Space Types:Storage W-3: W-3: LINEAR SURFACE MOUNT: Other:	1	2	48	96
3-Common Space Types:Classroom/Lecture/Training W-2: W-2: LINEAR SURFACE MOUNT: Other:	1	16	57	912
4-Common Space Types:Restrooms WS-2: WS-2: 36" VANITY LIGHT: LED Other Fixture Unit 36W: DX-2: DX-2: 7" LED DOWNLIGHT: LED Other Fixture Unit 50W:	1	1	19 54	19 54
DA 2. DA 2. 1 LED DOWNLIGHT. LED GHIGH HALDIC GHILDOW.	'	Total Propos		1177

Interior Lighting PASSES: Design 27% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jason Worthen - Professional Engineering Intern

Name - Title

2/21/2016 Date

Project Title: Brighton Recovery Campus Bulding E Report date: 02/21/17

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COMcheck Software Version 4.0.5.2



Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC

Project Title: Brighton Recovery Campus Bulding E

Project Type: New Construction

Exterior Lighting Zone 2 (Residential mixed use area)

Construction Site: Owner/Agent: Designer/Contractor:

4931 South 900 East

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Parking area	41175 ft2	0.06	Tradable Wattage Allowed Watts Wattage (B X C) Yes 2470 Yes 1260 Yes 1378 Ie Watts (a) = 5108 owed Watts = 5108	
Plaza area	9000 ft2	0.14	Yes	1260
Entry canopy	5511 ft2	5511 ft2 0.25 Yes		1378
		Total Tradab	ole Watts (a) =	5108
		Total All	lowed Watts =	5108
	Total All	owed Supplement	tal Watts (b) =	600

⁽a) Wattage tradeoffs are only allowed between tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	(C X D)
Parking area (41175 ft2): Tradable Wattage	4	40	0.4	240
OC-32 copy 1: OC-32: LED WALL PACK: LED Other Fixture Unit 50W: ZX-2: ZX-2: Other:	1	10 4	24 72	240 288
ZX-4: ZX-4: Other:	1	8	72	576
Plaza area (9000 ft2): Tradable Wattage OC-32: OC-32: LED WALL PACK: LED Other Fixture Unit 50W:	1	7	24	168
Entry canopy (5511 ft2): Tradable Wattage HG-1: HG-1: CANOPY LIGHT: Other:	1	85	50	4250
	Total Tra	dable Propos	ed Watts =	5522

Exterior Lighting PASSES: Design 3% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.0.5.2 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jason Worthen - Professional Engineering Intern

Name - Title

2/21/2016 Date

Project Title: Brighton Recovery Campus Bulding E Report date: 02/21/17

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⁽b) A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

COMcheck Software Version 4.0.5.2 Inspection Checklist

Energy Code: 2015 IECC

Requirements: 0.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C103.2 [PR8] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	□Complies □Does Not □Not Observable □Not Applicable	
C406 [PR9] ¹	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

	1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.1 [EL15] ¹	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1 [EL18] ¹	Occupancy sensors installed in required spaces.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.1, C405.2.2. 3 [EL23] ²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.2. 1 [EL22] ²	Automatic controls to shut off all building lighting installed in all buildings.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3 [EL16] ²	Daylight zones provided with individual controls that control the lights independent of general area lighting.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 2 [EL20] ¹	Primary sidelighted areas are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.3, C405.2.3. 1, C405.2.3. 3 [EL21] ¹	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL4] ¹	Separate lighting control devices for specific uses installed per approved lighting plans.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.4 [EL8] ¹	allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	□Complies □Does Not □Not Observable □Not Applicable	
C405.2.5 [EL25] ^{null}	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	□Does Not □Not Observable □Not Applicable	
C405.3 [EL6] ¹	Exit signs do not exceed 5 watts per face.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

1	High Impact (Tier 1)	2	Medium Impact (Tier 2)	3	Low Impact (Tier 3)
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1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5. 2 [FI17] ³	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4.1 [FI18] ¹	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Interior Lighting fixture schedule for values.
C405.5.1 [FI19] ¹	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	□Complies □Does Not □Not Observable □Not Applicable	See the Exterior Lighting fixture schedule for values.
C408.2.5. 1 [FI16] ³	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	
C408.3 [FI33] ¹	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	□Complies □Does Not □Not Observable □Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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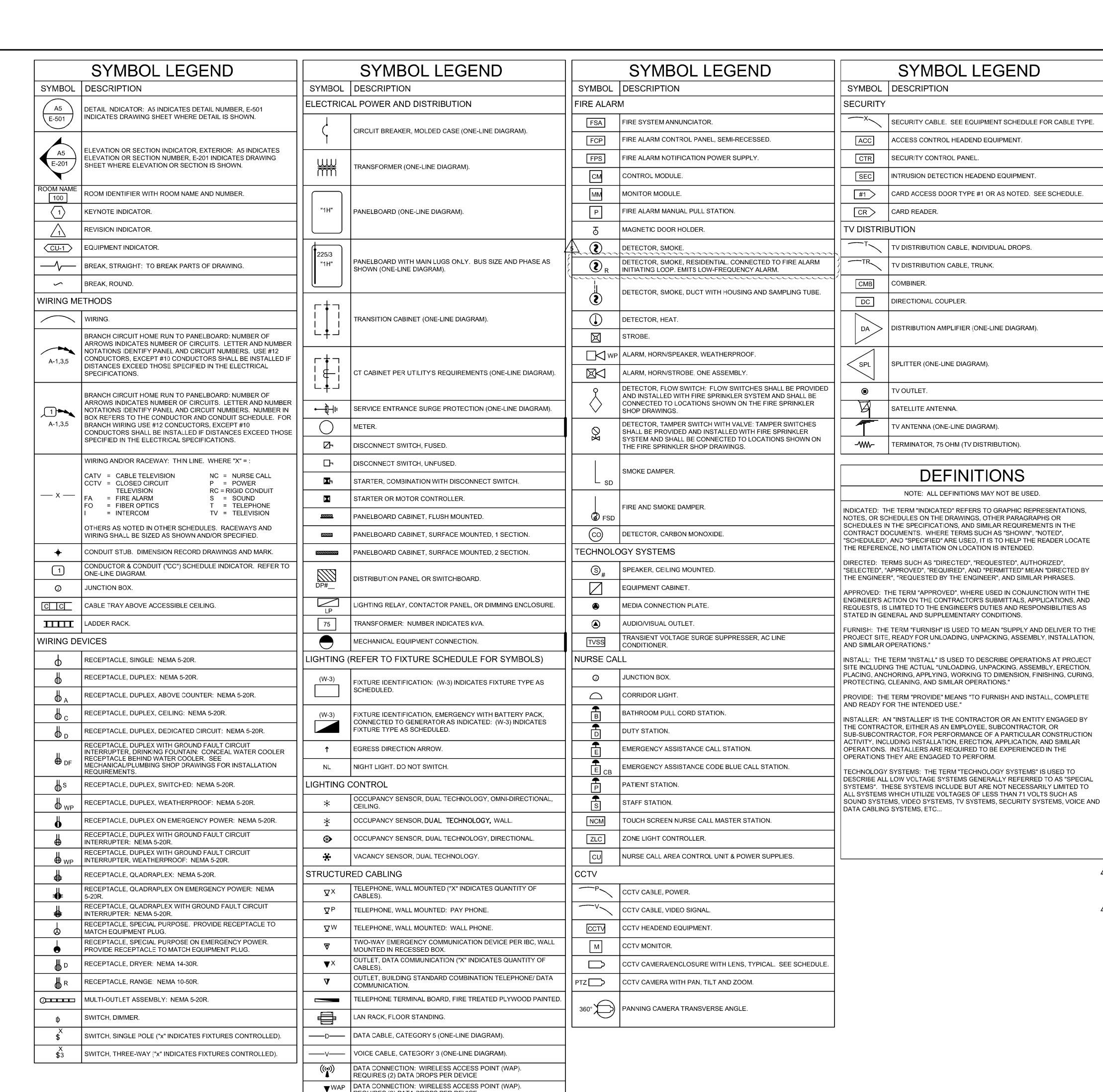
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REQUIRES (2) DATA DROPS PER DEVICE

GENERAL ELECTRICAL NOTES

SYMBOL LEGEND

ACCESS CONTROL HEADEND EQUIPMENT.

INTRUSION DETECTION HEADEND EQUIPMENT

TV DISTRIBUTION CABLE, INDIVIDUAL DROPS

DISTRIBUTION AMPLIFIER (ONE-LINE DIAGRAM)

TV DISTRIBUTION CABLE, TRUNK.

DIRECTIONAL COUPLER.

SPLITTER (ONE-LINE DIAGRAM)

TV ANTENNA (ONE-LINE DIAGRAM).

TERMINATOR, 75 OHM (TV DISTRIBUTION).

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED

SECURITY CONTROL PANEL.

CARD READER.

COMBINER.

TV OUTLET.

SATELLITE ANTENNA

SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.

CARD ACCESS DOOR TYPE #1 OR AS NOTED. SEE SCHEDULE.

FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.

B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES. AND THE DELIVERY OF

AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL

OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE

MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER. C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING

EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND

SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE

REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

ELECTRICAL SHEET INDEX

SHEET NO	SHEET TITLE
EE001	SYMBOL SCHEDULE, SHEET INDEX
ES101	ELECTRICAL SITE PLAN
EP11E	POWER PLAN - BUILDING 'E'
EP401	TYPICAL POWER PLANS
EP501	DETAILS
EP502	DETAILS
EP503	DETAILS
EP601	ONE LINE DIAGRAM
EP602	PANEL SCHEDULES
EP603	PANEL SCHEDULES
EL11E	LIGHTING PLAN - BUILDING 'E'
EL601	LIGHTING FIXTURE SCHEDULE
EY11E	AUXILIARY PLAN - BUILDING 'E'
EY601	AUXILIARY RISER DIAGRAMS
EY602	AUXILIARY RISER DIAGRAMS
EY603	AUXILIARY RISER DIAGRAMS
FA11E	FIRE ALARM PLAN - BUILDING 'E'
FA601	FIRE ALARM RISER DIAGRAM

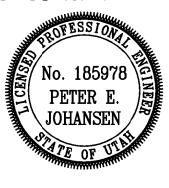
Welch

Architect Donald

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for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

January 04, 2017

revisions

PERMIT SET-December 28, 2016 **1**ADDENDUM #1−January 04, 2017 ADDENDUM #2-January 06, 2017 **31** ADDENDUM #3—January 11, 2017 4 ADDENDUM #4—January 17, 2017 **5** ADDENDUM #5-January 19, 2017 ADDENDUM #7-March 20, 2017

drawn by: checked by:

SCHEDULE SHEET INDEX

GENERAL SHEET NOTES

○ SHEET KEYNOTES

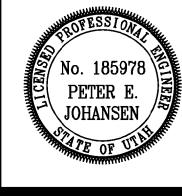
 EXISTING ROCKY MOUNTAIN TRANSFORMER. COORDINATE WITH ROCKY MOUNTAIN POWER TO DETERMINE IF THE EXISTING TRANSFORMER NEEDS TO BE REPLACED.

THE EXISTING ELECTRICAL ROOM IS LOCATED IN NORTHEAST CORNER OF BUILDING A. ALL OF THE ELECTRICAL EQUIPMENT IN THIS ROOM IS TO BE DEMOLISHED, INCLUDING THE ELECTRICAL PANEL AND METER CENTER. REMOVE ALL ASSOCIATED WIRING BACK TO THE UTILITY TRANSFORMER.

THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, GRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT BE COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH ARCHITECT

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Tenant Finish
for New
Brighton
Recovery
Campus
4905, 4911, 4915, 4925,
4931, & 4953 South 900

Salt Lake County, Utah

date

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ADDENDUM #5-January 19, 2017
ADDENDUM #7-March 20, 2017

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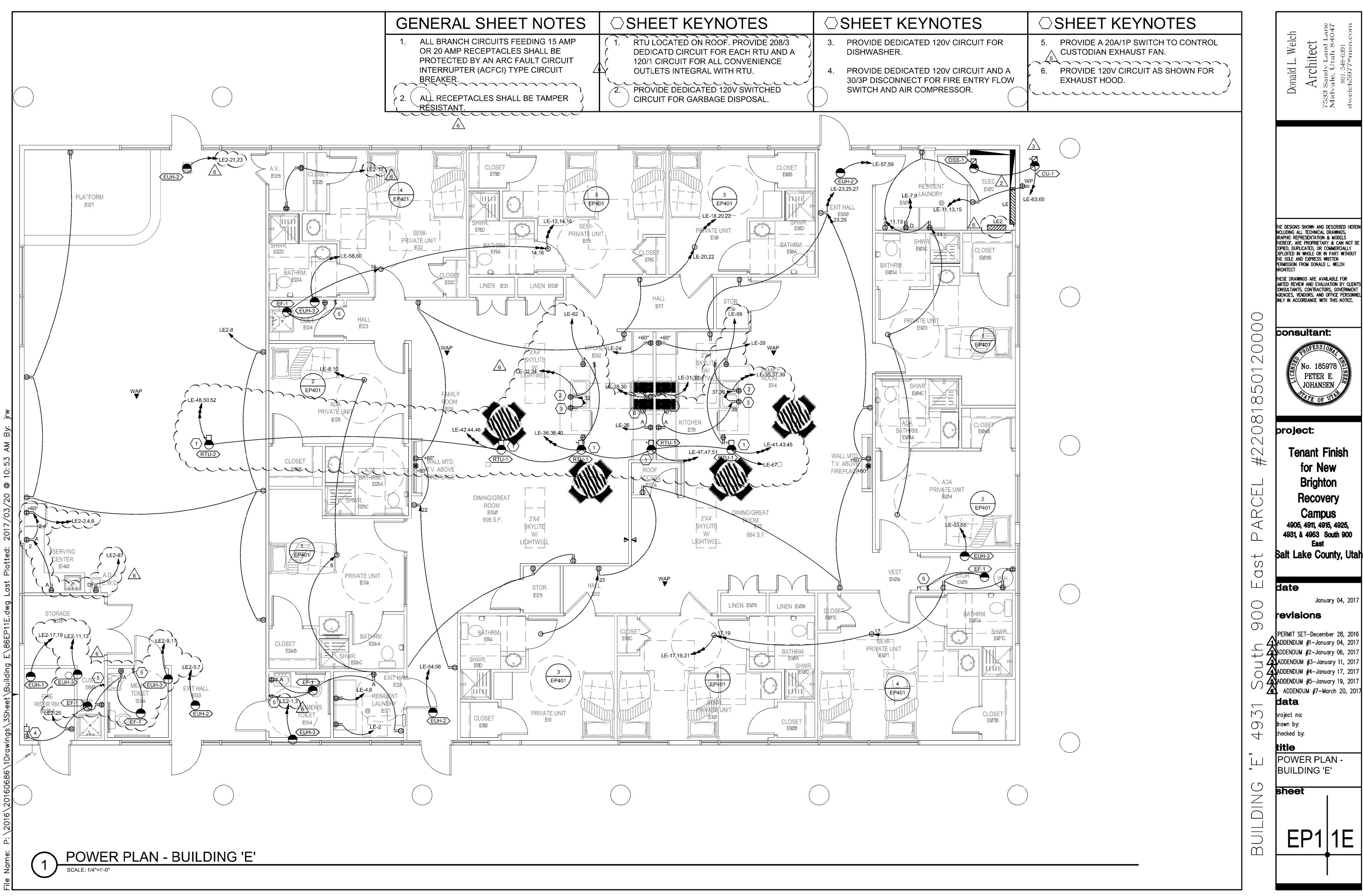
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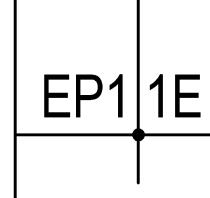
ELECTRICAL SITE PLAN

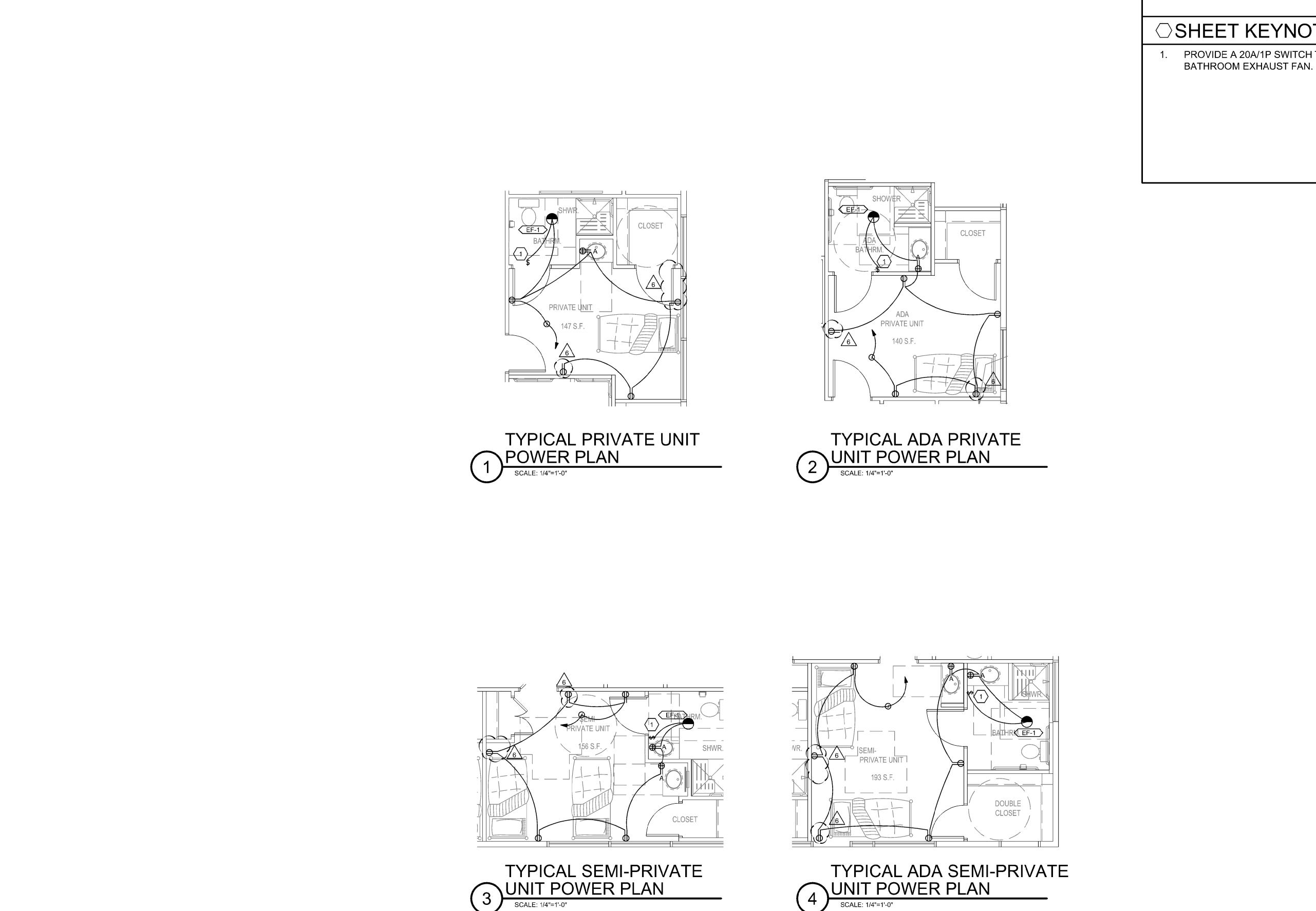
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ES1 01

1) ELECTRICAL SITE PLAN







GENERAL SHEET NOTES

ALL BRANCH CIRCUITS FEEDING 15 AMP OR 20 AMP RECEPTACLES SHALL BE PROTECTED BY AN ARC FAULT CIRCUIT INTERRUPTER (ACFCI) TYPE CIRCUIT BREAKER.

2. ALL RECEPTACLES SHALL BE TAMPER RESISTANT.

○SHEET KEYNOTES

PROVIDE A 20A/1P SWITCH TO CONTROL

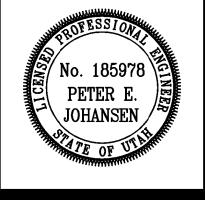
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Donald L. Welch

Architect

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for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

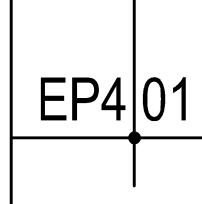
January 04, 2017

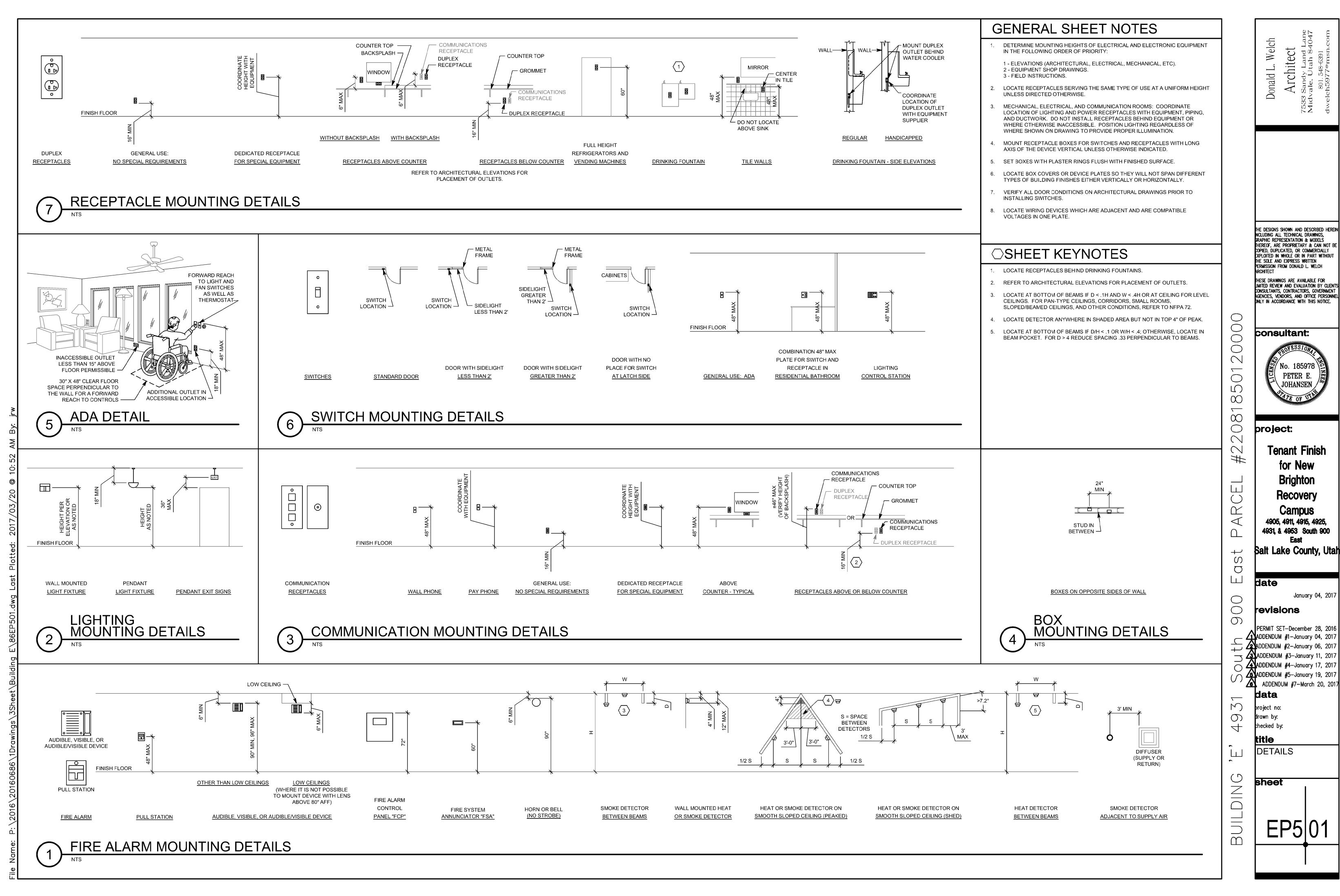
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TYPICAL POWER PLANS



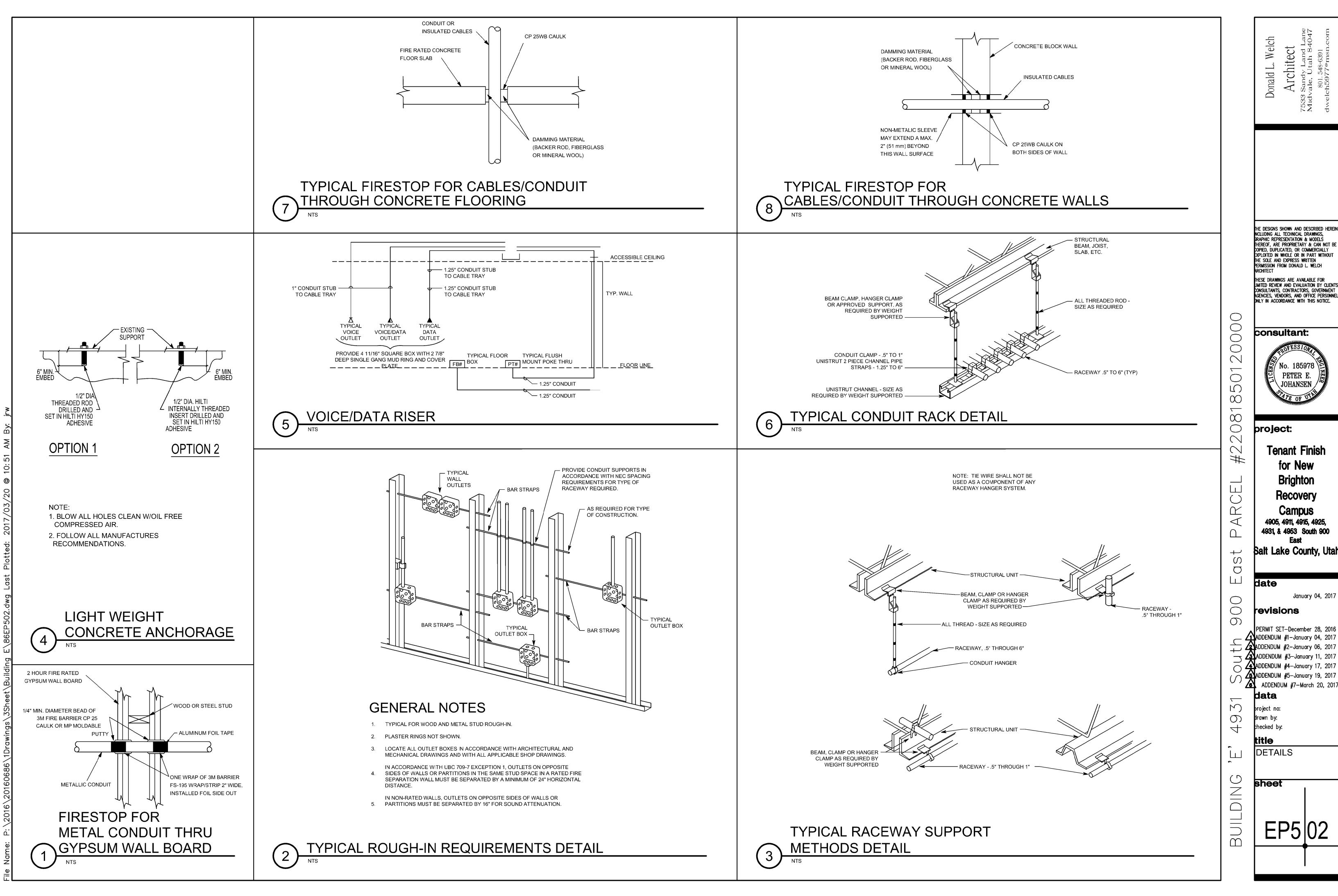


he designs shown and described herei

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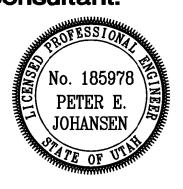


Donald L. Welch Architect

he designs shown and described herei NCLUDING ALL TECHNICAL DRAWINGS, PRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOU THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH

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project:

for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925,

4931, & 4953 South 900 **Salt Lake County, Utah**

date

January 04, 2017

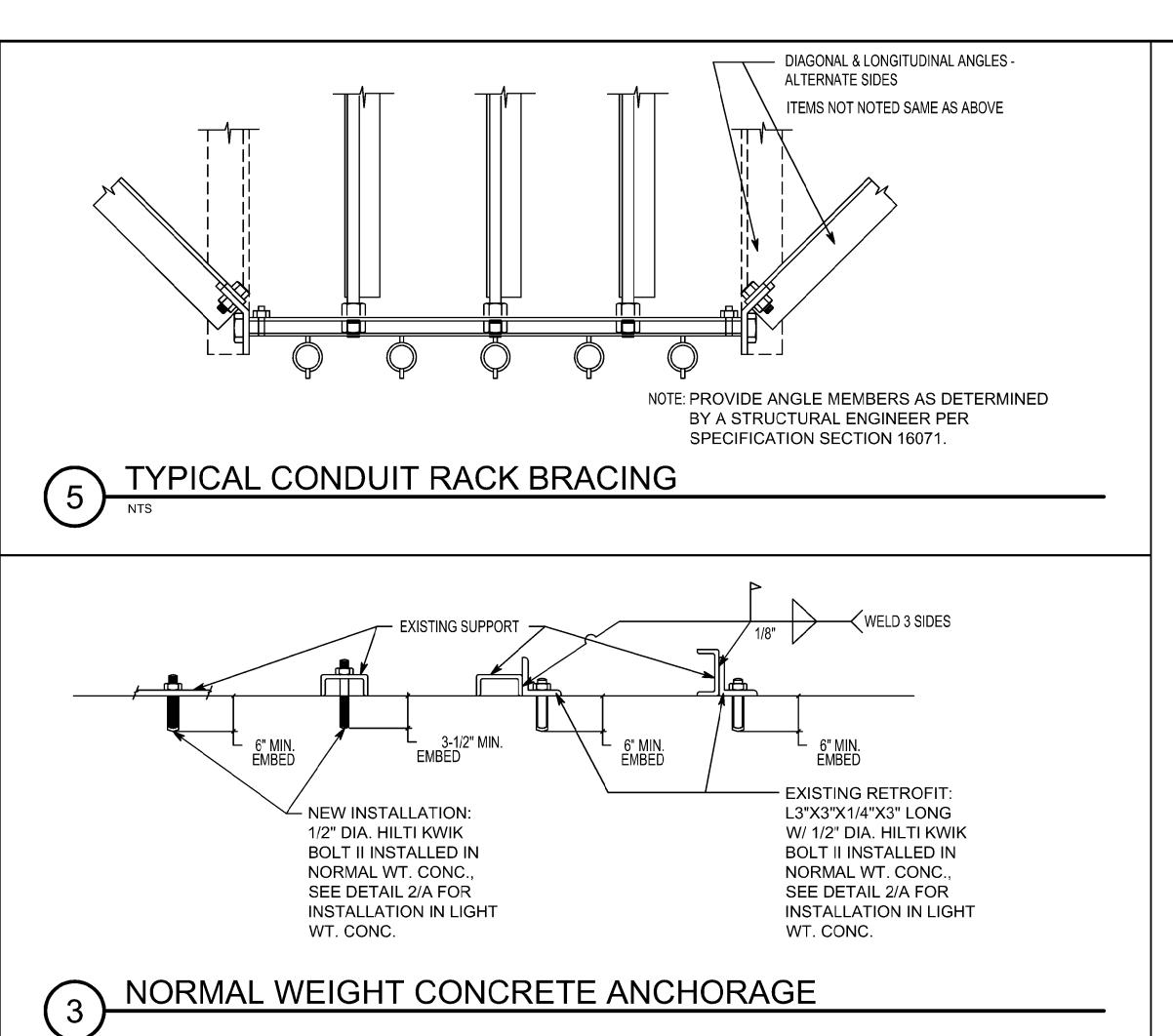
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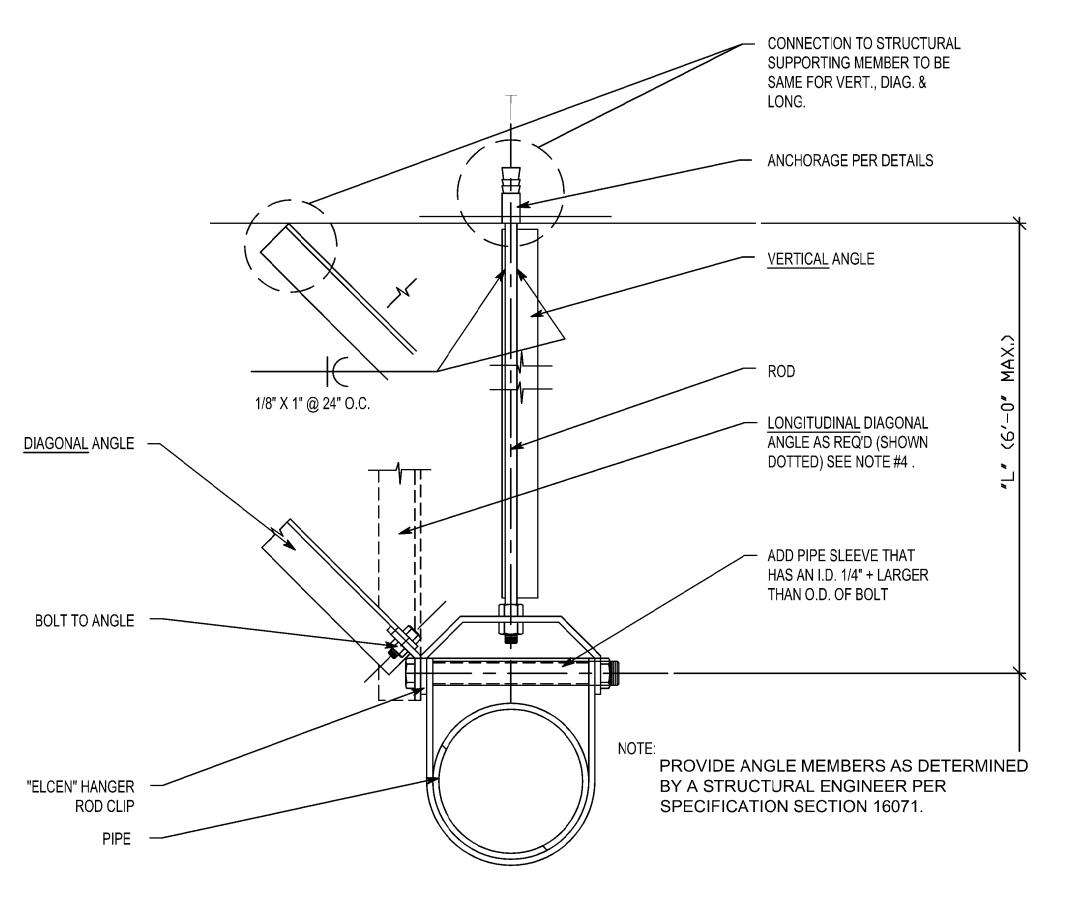
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drawn by: checked by:

DETAILS

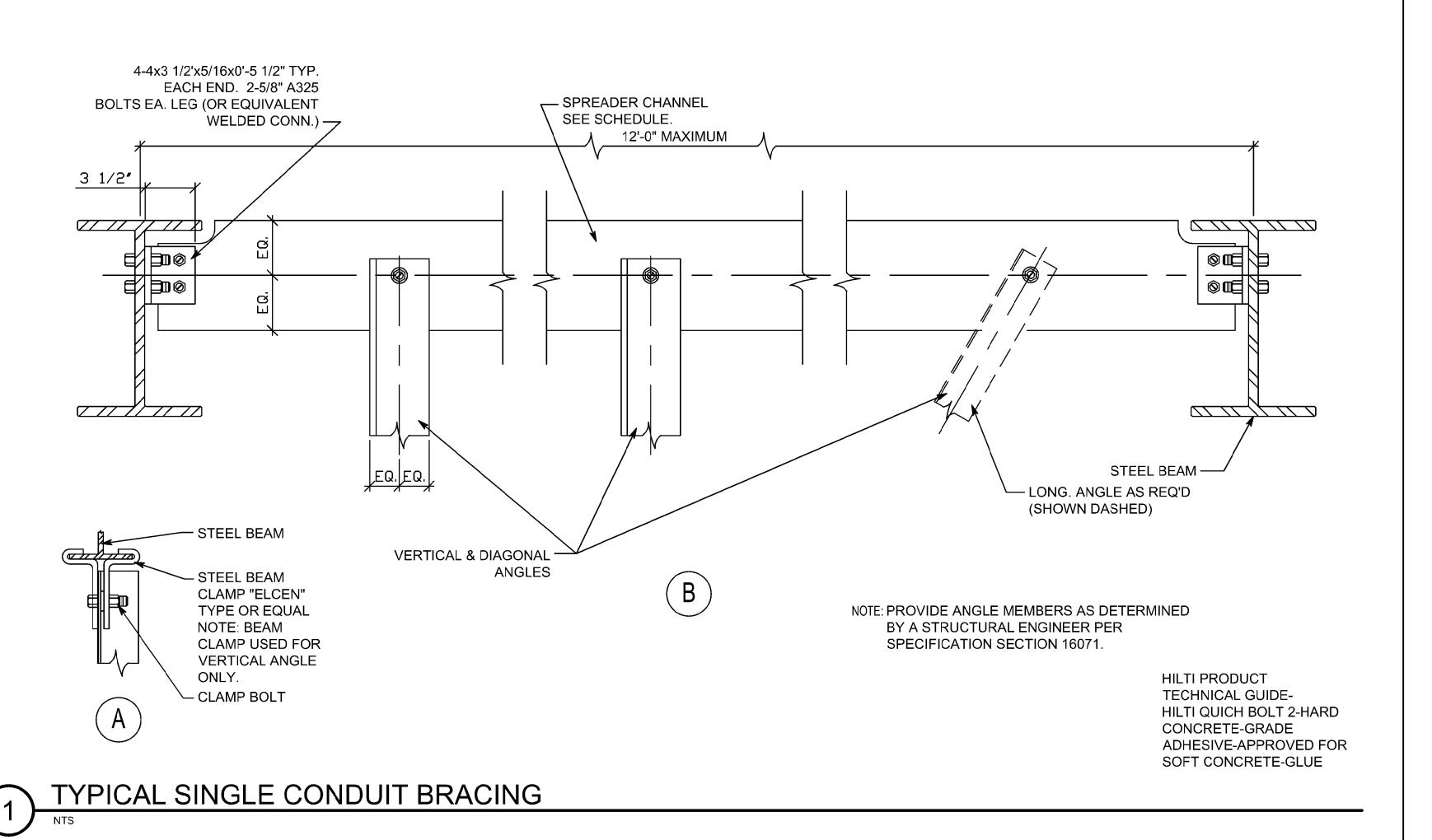


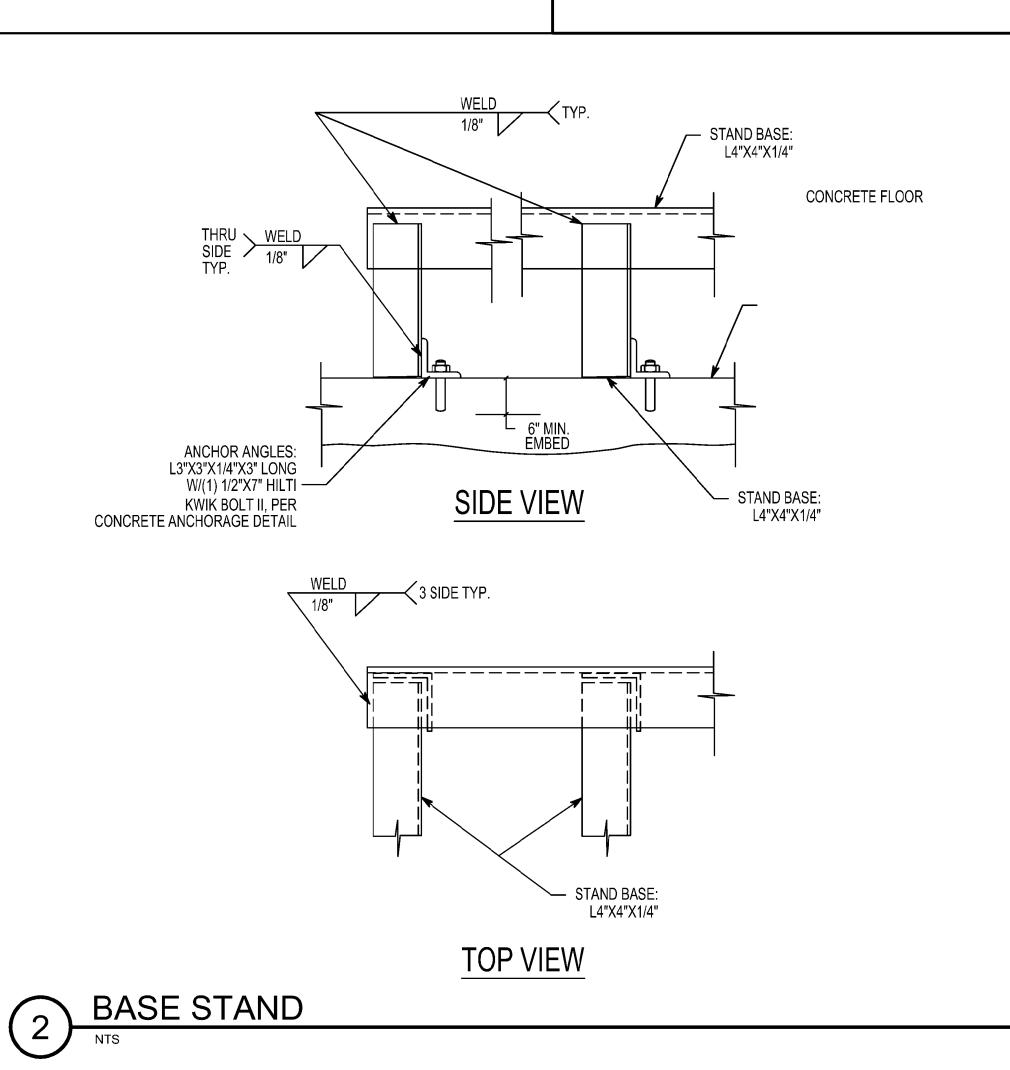


TYPICAL SINGLE CONDUIT BRACING

SEISMIC BRACING GENERAL NOTES

- 1. BRACE ALL CONDUIT WITH 2 1/2" I.D. AND LARGER, AND ALL BUSWAY, CABLE TRAY AND CONDUIT RACKS.
- 2. DETAILS SHOWN PROVIDE A LATERAL BRACING SYSTEM. A TYPICAL VERTICAL SUPPORT SYSTEM MUST ALSO BE USED. HOWEVER, WHERE BRACE OCCURS THE VERTICAL ANGLE SHOWN MAY REPLACE A TYPICAL VERTICAL SUPPORT.
- TRANSVERSE BRACING AT 30'-0" O.C. MAX.
- 4. LONGITUDINAL BRACINGS AT 60'-0" O.C. MAX.
- TRANSVERSE BRACING FOR ONE CONDUIT OR BUSWAY SECTION MAY ALSO ACT AS LONGITUDINAL BRACING FOR THE CONDUIT OR BUSWAY SECTION CONNECTED PERPENDICULAR TO IT, IF THE BRACING IS INSTALLED WITHIN 24" OF THE ELBOW OR TEE AND SIMILAR SIZE.
- 6. DO NOT USE BRANCH LINES TO BRACE MAIN LINES.
- PROVIDE FLEXIBILITY IN JOINTS WHERE PIPES PASS THROUGH BUILDING SEISMIC OR EXPANSION JOINTS, OR WHERE RIGIDLY SUPPORTED PIPES CONNECT TO EQUIPMENT WITH VIBRATION ISOLATORS.
- AT VERTICAL CONDUIT AND BUSWAY RISERS, WHEREVER POSSIBLE, SUPPORT OF WEIGHT OF THE RISER AT A POINT OR POINTS ABOVE THE CENTER OF GRAVITY OF THE RISER. PROVIDE LATERAL GUIDES AT THE TOP AND BOTTOM OF THE RISER, AND AT INTERMEDIATE POINTS NOT TO EXCEED 30'-0" ON CENTER.
- PROVIDE LARGE ENOUGH CONDUIT SLEEVES THROUGH WALLS OR FLOORS TO ALLOW FOR ANTICIPATED DIFFERENTIAL MOVEMENTS.
- 10. DO NOT FASTEN ONE RIGID CONDUIT OR BUSWAY SYSTEM TO TWO DISSIMILAR PARTS OF A BUILDING THAT MAY RESPOND IN A DIFFERENT MODE DURING AN EARTHQUAKE: FOR EXAMPLE, A WALL AND A ROOF.
- 11. REFER TO SPECIFICATIONS AND MANUFACTURER'S LITERATURE FOR ADDITIONAL REQUIREMENTS.





Donald L. Welch Architect HE DESIGNS SHOWN AND DESCRIBED HEREI NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT E COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH THESE DRAWINGS ARE AVAILABLE FOR IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL DNLY IN ACCORDANCE WITH THIS NOTICE. consultant: \ JOHANSEN] for New **Brighton**

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project: Tenant Finish

Recovery Campus

Salt Lake County, Utah

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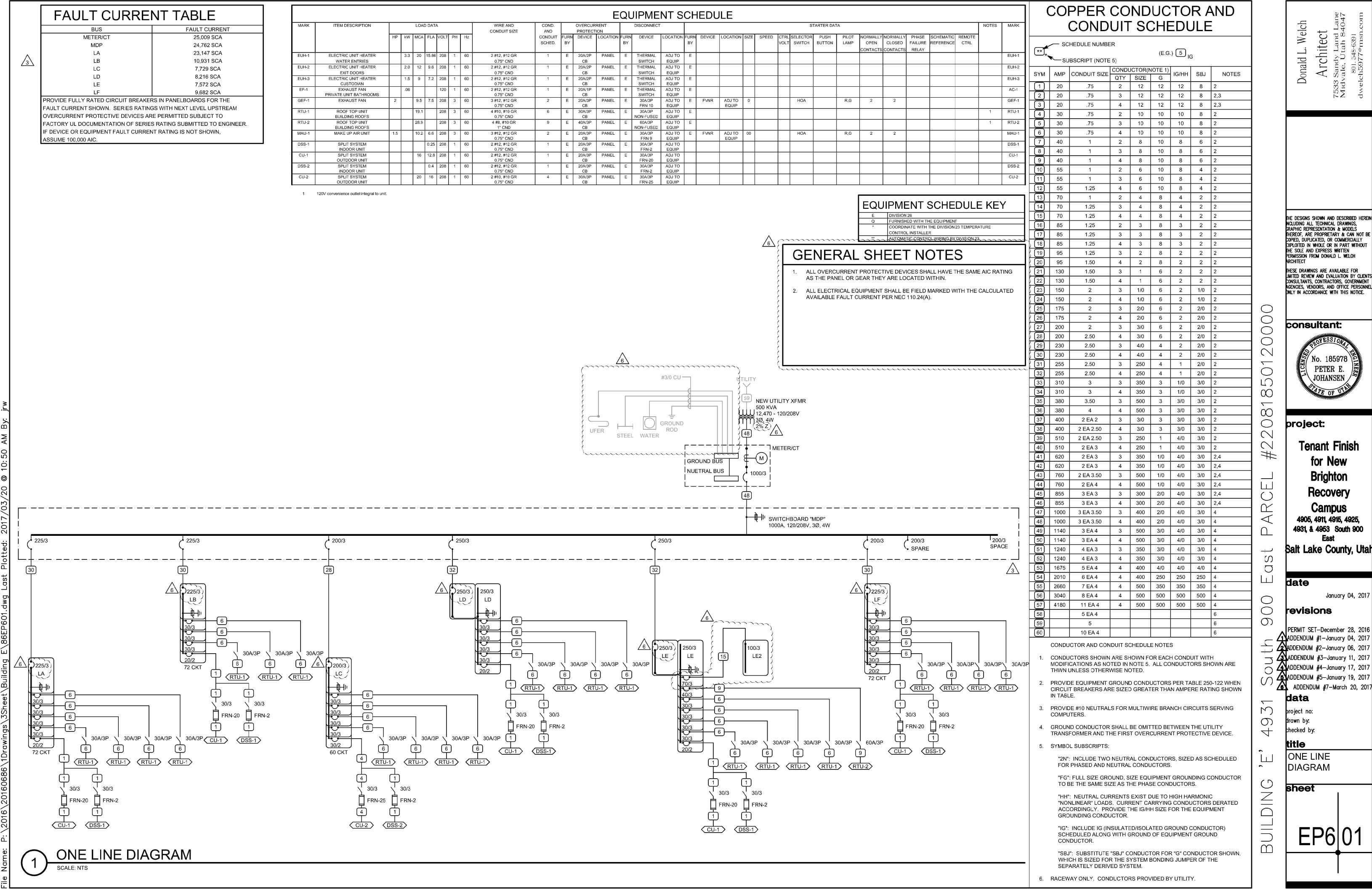
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VOLT	S/PHAS	SE/WIF	.₹E:			MAIN SIZE & TYPE:	LOCA	ATION:		نبنين	<u> </u>	AIC RATING: NOTES:						
120/2	.08 V, 3 I	PH 4 V	NIRE			1000 AMP MAIN LUGS	BUILF	DING A			,	30,000 AIC						J
ACCF	ESSORII	ES:	IDEN	TIFICA	TION,	GROUNDING BAR, INSULATED GROU	JND BA	ιR										
СКТ	ОСР		Lſ	OAD (k\	VA)	PANEL / EQUIPMENT	LCL	PH	ASE LC	JAD	LCL	PANEL / EQUIPMENT	LC	DAD (kV	/A)	OCP	,	CKT
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	co	PWR	AMP	POLE	NO
1 '	200	3	1.6	7.7	17.3	LA	27.0				33.7	LD	2.9	10.9	19.2	200	3	2
<u></u> '	<u> </u>	<u>-</u> -'	1.5	7.9	18.5	-	28.2	<u> </u>	54.4	<u> </u>	27.3	-	2.9	10.1	13.6		<u> </u>	ل
'	<u> </u> -	<u> </u>	0.0	4.8	20.8	-	25.6		— —'	58.7	33.9	-	3.0	9.6	20.5		<u> </u>	ل
3	200	3	1.3	5.9	16.9	LB	24.4	+	⊥′		34.1	LE	1.7	9.8	22.2	200	3	4
'	<u> -</u>	<u> </u>	1.6	6.2	14.6	-	22.8	_	60.3	<u> </u>	38.3	-	1.5	10.2	26.2		-	
<u></u> '	<u> </u>	<u> </u>	0.0	6.2	20.6	-	26.8		Д′	61.0	34.5	-	1.0	7.9	25.3		<u> </u>	
5	200	3	1.5	9.2	10.9	LC	22.0		↓′		27.2	LF	1.8	6.2	18.7	200	3	6
<u> </u>	<u> -</u>	<u> </u>	1.2	6.6	13.4	-	21.5		48.4	<u> </u>	27.6	-	1.6	6.5	19.1		-	
<u> </u>	<u> - </u>	<u> </u>	1.4	6.8	11.7	-	20.3	+ +	Д′	46.3	26.4	-	0.0	7.5	18.9		-	!
7 '	200	3			'	SPARE	0.0	0.0	↓ ′		0.0	SPACE	<u> </u>	<u> </u>		-	3	8
'	<u> - </u>	 '			<u> </u>	-	0.0	 '	0.0		0.0	-	 '	 '	 '		 -	-
'	<u>ı -</u> J	'				<u>-</u>	0.0	<u> </u>	'	0.0	0.0	-	<u> </u>	<u> </u>			<u> </u>	
TOTAI	LS:					CONNECTED kVA PER F			163	166					D TOTA			
						CONNECTED AMPS PER F	PHASE	1381	1360	1383		CONNECTED AVE	RAGE	AMPS	PER P	HASE	1375	
NEC I					ULATIO													
i				kVA @1						DS @10					IFIED TO			436
i ,	RECEP			_			25°	% OF L	ARGE	ST MOT	ror =	0 kVA	AVER/	AGE AN	MPS PE	ER PH/	ASE =	1212
	REM/	AINDE	ス 130k	kVA @	, 50% =	65 kVA												

120/2	S/PHAS 08 V, 3 SSORI	PH 4 V	VIRE	L DIRE	CTOR	PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON Y, IDENTIFICATION, GROUNDING BA	225 A	SIZE 8 MP MA JLATE	IN CB		AR	LOCATION:	AIC R 42,000	ATING 0 AIC	:	NOTE	S:	
CKT	ОСР		LC	AD (kV	′A)	DESCRIPTION	LCL	PH	ASE LC)AD	LCL	DESCRIPTION	LC	AD (k∖	/A)	OCP		СКТ
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	cò	PWR	AMP	POLE	NO
1	20	1	1.3			LIGHTING	1.6	2.3			1.0	WASHER LAUNDY A127		1.0		20	1	2
3	20	1	1.5			LIGHTING	1.9		1.9		0.4	CO LAUNDRY A127		0.4		20	1	4
5	30	2			1.3	DRYER LAUNDRY A101	1.3			2.6	1.3	DRYER LAUNDRY A127			1.3	30	2	6
7	-	-			1.3	-	1.3	2.6			1.3	-			1.3	-	-	8
9	20	1		1.0		WASHER LAUNDY A101	1.0		2.6		1.6	ROOMS A126, A125		1.4	0.2	20	1	10
11	20	1		1.4	0.2	ROOMS A103, A104	1.6			1.9	0.3	CUSTODIAN		0.2	0.1	20	1	12
13	20	1		8.0		CO ROOMS A101, A102	0.8	2.0			1.2	RM A122		1.1	0.1	20	1	14
15	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2		2.4		1.2	RM A119		1.1	0.1	20	1	16
17	20	1		1.1	0.1	RM A107	1.2			1.8	0.6	CO STORAGE/DINING A130		0.6		20	1	18
19	20	1		1.1	0.1	RM A110	1.2	2.1			0.9	CO FAMILY ROOM A131		0.9		20	1	20
21	20	1		1.1	0.1	RM A111	1.2		2.4		1.2	RM A118		1.1	0.1	20	1	22
23	20	1		0.9		CO RF ACCS, DINING A113	0.9			3.3	2.4	RANGE KITCHEN A132			2.4	50	2	24
25	20	1		0.6		CO FAMILY ROOM/STOR.	0.6	3.0			2.4	-			2.4	-	ı	26
27	50	2			2.4	RANGE KITCHEN A115	2.4		3.4		1.0	REFRIGERATOR A132		1.0		20	τ-	28
29	-	-			2.4	ı	2.4			2.6	0.2	CO KITCHEN A132		0.2		20	1	30
31	20	1		1.0		REFRIGERATOR A115	1.0	2.0			1.0	DISWASHER A132			1.0	20	τ-	32
33	20	1		0.2		CO KITCHEN A115	0.2		1.2		1.0	GARBAGE DISP. A132			1.0	20	1	34
35	20	1			1.0	DISHWASHER A115	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1			1.0	GARBAGE DISP. A115	1.0	2.9			1.9	-			1.9	-	-	38
39	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	40
41	-	-			1.9	-	1.9			3.8	1.9	RTU-1			1.9	30	3	42
43	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	44
45	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	•	46
47	-	-			1.9	-	1.9			2.7	0.8	EUH-3			8.0	20	2	48
49	-	-			1.9	-	1.9	2.7			0.8	-			0.8	-	•	50
51	20	1			1.0	EUH-2	1.0		2.0		1.0	EUH-2			1.0	20	2	52
53	20	1			1.0	-	1.0			2.0	1.0	-			1.0	-	-	54
55	20	1			1.7	EUH-1	1.7	2.0			0.4	EGRESS LIGHTING	0.3			20	1	56
57	20	1			1.7	-	1.7		3.4		1.7	CU-1/DSS-1			1.7	20	2	58
59	20	1		0.4		KITCHEN ISLAND CO	0.4			2.1	1.7	-			1.7	-	-	60
61	20	1		8.0		RTU CO's	0.8	1.2			0.4	KITCHEN ISLAND CO		0.4		20	1	62
63	20	1			1.0	SMOKE DETECTORS	1.0		1.0		0.0	SPARE				20	1	64
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	66
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	68
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	70
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	72
TOTA	LS:					CONNECTED kVA PER			28	26			CONN					
				O 4 + = :	: -	CONNECTED AMPS PER	PHASE	221	232	213		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	222	
1EC	DIVERS						_											_
			ING 3k	_		4 kVA		OTHE		_		57 kVA		VERSI				77
	RECEF	PTACLE	ES 10k'	√A @10	00% = 50% =	10 kVA 5 kVA	25°	% OF L	ARGES	ST MO	TOR =	2 kVA	AVER/	AGE AN	MPS PE	R PHA	SE =	2

	S/PHAS					PANEL SIZE & TYPE:		SIZE 8 MP MA		:		LOCATION:		ATING	i:	NOTE	S:	
	8 V, 3 I SSORIE			DIDE	CTOD	_22" W x 6" D, BOLT-ON Y, IDENTIFICATION, GROUNDING B				I IND D	VD 61	 	22,00	U AIC		<u> </u>		-
CKT	OCP	_3.		AD (k\		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION	Τ	DAD (k\	/ / /	OCP		-
	AMP	DOLE		CO (K)	PWR	DESCRIPTION	kVA	A A	B	С	kVA	DESCRIPTION	LTG		PWR	AMP		_
1	20	1	1.3	- 00	FVVI	LIGHTING	1.6	2.6			1.3	DRYER LAUNDRY B125	LIG		1.3	30		_
3	20	1	1.3			LIGHTING	1.6	2.0	2.6		1.3	DRIER LAUNDRI B123			1.3	30	2	-
5	30	2	1.3		1.3	DRYER LAUNDRY B101	1.3		2.0	1.7	0.4	CO LAUNDRY B125		0.4	1.3	20	1	-
7					1.3	DITTER EAGNDRY BIOT	1.3	2.3		1.7	1.0	WASHER B125		1.0		20	1	-
9	20	1		1.4	0.2	ROOMS B104, B105	1.6	2.0	3.2		1.6	ROOMS B12, B123		1.4	0.2	20	1	-
11	20	1		1.0	0.2	WASHER LAUNDRY B101	1.0		0.2	2.3	1.3	WH/PUMP/FIRE COMP		1.3	0.2	20	1	-
13	20	1		0.8		CO ROOMS B101, B102	0.8	2.0		2.0	1.2	ROOM B119		1.1	0.1	20	1	-
15	20	1		0.2	0.1	CO & EF-1 CUST B106	0.3	2.0	1.5		1.2	ROOM B117		1.1	0.1	20	1	-
17	20	1		1.1	0.1	ROOM B108	1.2		1.0	2.2	1.0	REFRIGERATOR B129		1.0	0.1	20	1	-
19	20	1		1.1	0.1	ROOM B111	1.2	1.7			0.5	CO DINING B127		0.5		20	1	-
21	20	1		0.5	• • • • • • • • • • • • • • • • • • • •	CO FAMILY RM B114	0.5		1.3		0.8	CO FAMILY/STOR. B128,B121		0.8		20	1	-
23	20	1		0.8		CO DINING RM B113	0.8			3.2	2.4	RANGE B129		0.0	2.4	50	2	-
25	20	1		1.0		REFRIGERATOR B115	1.0	3.4			2.4	-			2.4	-		-
27	50	2			2.4	RANGE B115	2.4		3.4		1.0	GARBAGE DISP.			1.0	20	1	-
29	- 1	-			2.4	-	2.4			3.4	1.0	DISHWASHER B129			1.0	20	1	-
31	20	1		0.2		CO KITCHEN B115	0.2	0.4		-	0.2	CO KITCHEN B129		0.2		20	1	-
33	20	1			1.0	DISHWASHER B115	1.0		2.9		1.9	RTU-1			1.9	30	3	
35	20	1			1.0	GARBAGE DISP. B115	1.0			2.9	1.9	-			1.9	-	-	-
37	30	3			1.9	RTU-1	1.9	3.8			1.9	-			1.9	-	-	
39	-	-			1.9	-	1.9		2.9		1.0	EUH-2			1.0	20	2	
41	-	-			1.9	-	1.9			2.9	1.0	-			1.0	-	-	
43	30	3			1.9	RTU-1	1.9	2.7			0.8	EUH-3			0.8	20	2	
45	-	-			1.9	-	1.9		2.7		0.8	-			0.8	-	-	
47	-	-			1.9	-	1.9			3.6	1.7	EUH-1			1.7	20	-	_
49	20	2			0.8	EUH-3	0.8	2.5			1.7	-			1.7	-	-	
51	-	-			0.8	-	0.8		1.1		0.4	EGRESS LIGHTING	0.3			20	1	_
53	20	2			1.0	EUH-2	1.0			2.7	1.7	CU-1/DSS-1			1.7	20	2	_
55	_	-			1.0	-	1.0	2.7			1.7	-			1.7	-	-	
57	20	1		0.4		KITCHEN ISLAND CO	0.4		0.8		0.4	KITCHEN ISLAND CO		0.4		20	1	_
59	20	1		0.6		RTU CO'S	0.6			1.6	1.0	SMOKE DETECTORS			1.0	20	1	
61	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	
63	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	_
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	_
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	_
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	_
TOTAI	_S:					CONNECTED KVA PER CONNECTED AMPS PER			22 187	26 221		CONNECTED AV			PER P		73 203	;
NEC D	IVERS	IFIED	LOAD (CALCL	JLATIO		110102	201	101			CONNECTED A		7		117102		

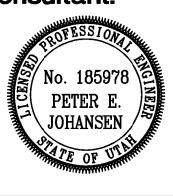
						\wedge		N				<u>/3\</u>						
						<u>/6\</u>	7 \ L \	<u> </u>				<u>/2</u> \						
VOLT	S/PHAS	SE/WIR	E:			PANEL SIZE & TYPE:	MAIN	SIZE &	TYPE:			LOCATION:	AIC R	ATING	:	NOTE	S:	
120/20	08 V, 3	PH 4 W	/IRE			22" W x 6" D, BOLT-ON	200 A	MP MA	IN CB				10,000	O AIC				
ACCE	SSORI	ES:	PANEI	DIRE	CTOR	r, IDENTIFICATION, GROUNDING E	BAR, INSI	JLATEI	GRO	UND B	AR, SU	BFEED LUGS						
СКТ	OCP		LO	AD (kV	′A)	DESCRIPTION	LCL	PHA	ASE LC)AD	LCL	DESCRIPTION	LC	AD (k\	/A)	OCP		CŁ
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	N
1	20	1	1.5			LIGHTING	1.9	2.3			0.8	CO FIRE RM/FIRE COMP		0.2	0.6	20	1	2
3	20	1	1.2			LIGHTING	1.5		2.0		8.0	GROUP ROOM C127		0.8		20	1	4
5	20	1	1.0			LIGHTING	1.3			1.8	0.8	GROUP ROOM C126		0.8		20	1	6
7	20	1		8.0		CO RECPTION C122	0.8	2.0			1.2	GROUP ROOM C130,128		1.2		20	1	8
9	20	1		1.6		CO OFFICES C117, C116	1.6		2.4		0.8	GROUP ROOM C131		0.8		20	1	1
11	20	1		1.4		CO OFFICES C115, C114	1.4			2.4	1.0	WH/PUMP/CO CUST C133		0.2	0.8	20	1	1
13	20	1		8.0		CO CUBICLES	0.8	1.6			0.8	CO CUBICLES		0.8		20	1	1
15	20	1		8.0		CO OFFICE C106	0.8		1.8		1.0	COPIER COPY C121		1.0		20	1	1
17	20	1		1.4		CO OFFICES C107, C108	1.4			2.8	1.4	CO C129, C125, C132		1.2	0.2	20	1	1
19	20	1		1.0		REFRIGERATOR C113	1.0	2.4			1.4	CO CORR C118, 109, 102		1.4		20	1	2
21	20	1		0.2		CO BREAK ROOM C113	0.2		2.1		1.9	RTU-1			1.9	30	3	2
23	20	1		0.2		CO BREAK ROOM C113	0.2			2.1	1.9	-			1.9	-	-	2
25	20	1		1.0		CO MEDS C112	1.0	2.9			1.9	-			1.9	-	-	2
27	20	1		0.4		CO MEDS C112	0.4		2.3		1.9	RTU-1			1.9	30	3	2
29	20	1		8.0		CO BREAK ROOM C113	0.8			2.7	1.9	-			1.9	-	-	3
31	20	1		0.4		CO LAB C111	0.4	2.3			1.9	-			1.9	-	-	3
33	20	1		0.2		CO LAB C111	0.2		1.2		1.0	EUH-2			1.0	20	2	3
35	20	1		1.0		REFRIGERATOR C111	1.0			2.0	1.0	-			1.0	-	-	3
37	30	3			1.9	RTU-1	1.9	3.6			1.7	EUH-1			1.7	20	2	3
39	-	-			1.9	-	1.9		3.6		1.7	-			1.7	-	-	4
41	-	-			1.9	-	1.9			2.3	0.5	EGRESS LIGHTING	0.4			20	1	4
43	30	3			1.9	RTU-1	1.9	2.5			0.6	CO ELEC C115A		0.6		20	1	4
45	-	-			1.9	-	1.9		4.0		2.1	CU-2/DSS-2			2.1	30	2	4
47	-	-			1.9	-	1.9			4.0	2.1	-			2.1	-	-	4
49	20	2			1.0	EUH-2	1.0	1.6			0.6	RTU CO'S		0.6		20	1	5
51	-	-			1.0	-	1.0		2.4		1.4	CO CUBICLES		1.4		20	1	5
53	20	1				SPARE	0.0			1.4	1.4	CO CUBICLES		1.4		20	1	5
55	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	5
57	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	5
59	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	6
TOTA	LS:		•			CONNECTED kVA PER	PHASE	21	22	21			CONN	ECTE	TOTA	L kVA	64	
						CONNECTED AMPS PER	PHASE	177	182	179	ARC	CONNECTED AV	ERAGE	AMPS	PER P	HASE	179	
NEC [DIVERS	SIFIED I	LOAD (CALCU	ILATIO	NS												
		LIGHTI	NG 4k\	/A @12	25% =	5 kVA	ALL	OTHE	R LOAE	OS @1	00% =	36 kVA	DI	VERSI	FIED T	OTAL F	(VA =	5
ı	RECEF	TACLE	S 10k\	/A ത1	വ% =	10 kVA	250	% OF L	ADGE	ET MO	TOD -	0 kVA	AVER/	AGE AI	ADS DE	D DH	SE -	16

THESE DRAWINGS ARE AVAILABLE FOR LIMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNEL DNLY IN ACCORDANCE WITH THIS NOTICE. project: date data checked by:

Donald L. Welch Architect Sandy Land L vale, Utan 840

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consultant:



2081

#2

ARCEL

Edst

4931

BUILDING

for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

January 04, 2017

revisions

PERMIT SET-December 28, 2016
ADDENDUM #1-January 04, 2017
ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017
ADDENDUM #4-January 17, 2017
ADDENDUM #5-January 19, 2017
ADDENDUM #7-March 20, 2017

drawn by:

PANEL SCHEDULES

						700	PA	\mathcal{L}			<u> </u>		1			1		
	S/PHAS					PANEL SIZE & TYPE:		SIZE 8				LOCATION:	AIC R		3 :	NOTE	S:	
	08 V, 3					22" W x 6" D, BOLT-ON		MP MA					10,000	0 AIC				
	SSORI					Y, IDENTIFICATION, GROUNDING B												
CKT	OCP			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION		OAD (k'		OCP		CKT
NO	AMP		LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	co	PWR		POLE	NO
1	20	2			8.0	EUH-3	8.0	1.0			0.2	CO SERVING E140		0.2		20	1	2
3	-	-			8.0	-	0.8		1.0		0.2	CO SERVING E140		0.2		20	1	4
5	20	2			1.0	EUH-2	1.0			2.0	1.0	REFRIGERATOR E140		1.0		20	1	6
7	-	-			1.0	-	1.0	2.1			1.1	GATHERING/LEARN E136		1.1		20	1	8
9	20	2			8.0	EUH-3	0.8		1.6		0.8	CO A/V E139		0.8		20	1	10
11	-	-			8.0	-	0.8			0.8	0.0	SPARE				20	1	12
13	20	2			8.0	EUH-3	0.8	0.8			0.0	SPARE	_			20	1	14
15	-	-			8.0	-	0.8		0.8		0.0	SPARE				20	1	16
17	20	2			1.7	EUH-1	1.7			1.7	0.0	SPARE				20	1	18
19	-	-			1.7	-	1.7	1.7			0.0	SPARE				20	1	20
21	20	2			1.0	EUH-2	1.0		1.0		0.0	SPARE				20	1	22
23	-	-			1.0	-	1.0			1.0	0.0	SPARE				20	1	24
25	20	1		0.2	0.6	CO FIRE E135/FIRE COMP.	0.8	0.8			0.0	SPARE				20	1	26
27	20	1		1.0		DRINKING FOUNTAIN	1.0		1.0		0.0	SPARE				20	1	28
29	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	30
31	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	32
33	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	34
35	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	36
TOTA	LS:					CONNECTED kVA PER	PHASE	6	5	6			CONN	ECTE	D TOTA	L kVA	17	
						CONNECTED AMPS PER	PHASE	53	45	46		CONNECTED AV	ERAGE	AMPS	PER P	HASE	48	
NEC I	DIVERS						A	OTUE	D 1 O A 1	70.64	200/	40 1444	D.		IEIED T	·	۸/۸ -	47
			NG 0k\	/A @17 /A @10		0 kVA 5 kVA		OTHE % OF L		_		13 kVA	וט		IFIED T MPS PE			17

LX										
			AUTO	MATI¢ CONTROL			OVERRIDE CONT	ROL 0	THER	
RELAY	CIRCUIT	VOLTS	LOAD DESCRIPTION	ON	OFF	SCHEDULE	ON	OFF	CONTROLS	REMARKS
1	LD	120	BLDG A & B CANOPY LTG	EPC	EPC				EPC	
2	LD	120	BLDG E & F CANOPY LTG	EPC	EPC				EPC	
3	LD	120	BLDG C & D CANOPY LTG	EPC	EPC				EPC	
4	LD	120	PARKING LOT LIGHTING	EPC	EPC				EPC	
5		120	SPARE							
6	_	120	SPARE							

REMAINDER 0kVA @ 50% =

BH = BUSINESS HOURS PER SCHEDULE (EXAMPLE SCHEDULE 1: ON AT 6:00 AM / OFF AT 8:00 PM) - UP TO 6 SCHEDULES PER PANEL AVAILABLE AS SELECTED BY OWNER

SCHEDULE BH-1: LIGHTS ON 7:00 AM / LIGHTS OFF 9:00 PM/MONDAY - FRIDAY EXCLUDING HOLIDAYS

SCHEDULE BH-2: LIGHTS ON 7:00 AM / LIGHTS OFF 10:00 PM / MONDAY - FRIDAY EXCLUDING HOLIDAYS SCHEDULE BH-3: LIGHTS ON 7:00 AM/LIGHTS OFF 11:PM / 7 DAYS/WEEK

SCHEDULE BH-4: ON CONTROL BY EPC / OFF 11:00 PM

SCHEDULE BH-5: LIGHT ON 7:00 AM CONTROLLED BY IPC OFF 7:00 PM SCHEDULE BH-6: NOT USED

EPC = EXTERIOR PHOTO CELL

IPC(XXX) = INTERIOR PHOTO CELL. PROVIDE DIMMING CONTROL

LC - OVERRIDE CONTROL WALL SWITCH CONTROL; PUSH ON TURNS CIRCUIT ON FOR AUTO OFF AFTER 30 MINUTES

VOLT	S/PHA	SE/WIR	 RE:			PANEL SIZE & TYPE:	<u>, </u>	SIZE 8	\sim	<u>"L</u>	<u> </u>	LOCATION:	AIC R	ATING	<u> </u>	NOTE	S:	
		PH 4 V				22" W x 6" D, BOLT-ON		MP MA				200,111011.	10,000		.	11012	.0.	
	SSOR			l DIRF		Y, IDENTIFICATION, GROUNDING BA				UND B	AR. SU	I IBFFFD I UGS	1.0,000	7 110				
СКТ	OCF			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION	Tio	AD (kV	(A)	OCP)	СК
NO		POLE		co		DESSIAN FIGH	kVA	A	В	C	kVA	D ESSIM TISK	LTG				POLE	NO
1	20	1	1.2		. ,,,,	LIGHTING	1.5	2.2			1.0	WASHER LAUNDRY E127	1210	1.0	. ,,,,	20	1	2
3	20	1	1.5			LIGHTING	1.9	2.2	2.8		1.3	DRYER LAUNDRY E127		1.0	1.3	30	2	4
5	20	1	1.0			LIGHTING	1.3		2.0	2.3	1.3	-			1.3			6
7	30	2	1.0		1.3	DRYER LAUNDRY E101	1.3	2.0		2.5	0.7	CO E134, E127		0.6	0.1	20	1	8
9	30				1.3	DRIER LAUNDRI E 101	1.3	2.0	2.9		1.6	ROOMS E125,E126		1.4	0.1	20	1	10
-	20	- 1		1 1		- - - -	1.6		2.9	2.8		·					1	
11		1		1.4	0.2	ROOMS E103, E104	 	0.0		2.8	1.2	ROOM E119		1.1	0.1	20		12
13	20	1		1.0		WASHER LAUNDRY E101	1.0	2.2	0.0		1.2	ROOM E122		1.1	0.1	20	1	14
15	20	1		0.6		CO ROOMS E101,E102	0.6		0.9		0.3	CO/EF-1 CUSTODIAN E124		0.2	0.1	20	1	16
17	20	1		0.2	0.8	WH/PUMP/CO STORAGE	1.0			2.2	1.2	ROOM E118		1.1	0.1	20	1	18
19	20	1		1.1	0.1	ROOM E107	1.2	2.1			0.9	CO FAMILY ROOM E131		0.9		20	1	20
21	20	1		1.1	0.1	ROOM E110	1.2		1.8		0.6	CO DINING ROOM E130		0.6		20	1	22
23	20	1		1.1	0.1	ROOM E111	1.2			2.2	1.0	REFRIGERATOR E132		1.0		20	1	24
25	20	1		1.0		CO DINING E113	1.0	1.2			0.2	CO KITCHEN E132		0.2		20	1	26
27	20	1		0.6		CO FAMILY E114	0.6		3.0		2.4	RANGE E132			2.4	50	2	28
29	20	1		1.0		REFRIGERATOR E115	1.0			3.4	2.4	-			2.4	-		30
31	50	2			2.4	RANGE E115	2.4	3.4			1.0	DISHWASHER E132			1.0	20	1	32
33	-	-			2.4	-	2.4		3.4		1.0	GARBAGE DISP E132			1.0	20	1	34
35	20	1			1.0	GARBAGE DISPOSAL	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1			1.0	DISWASHER E115	1.0	2.9			1.9	-			1.9	-	-	38
39	20	1		0.2		CO KITCHEN E115	0.2		2.1		1.9	-			1.9	-	-	40
41	30	3			1.9	RTU-1	1.9			3.8	1.9	RTU-1			1.9	30	3	42
43	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	44
45	_	_			1.9	-	1.9		3.8		1.9	-			1.9	_	_	46
47	30	3			1.9	RTU-1	1.9			3.8	1.9	RTU-2			1.9	40	3	48
49	-	_			1.9		1.9	3.8			1.9	-			1.9	-	_	50
51	_	_			1.9		1.9	5.5	3.8		1.9	_			1.9		_	52
53	20	2			0.8	EUH-3	0.8		0.0	1.8	1.0	EUH-2			1.0	20	2	54
55		_			0.8	-	0.8	1.8		1.0	1.0	_			1.0			56
57	20	2			1.0	 EUH-2	1.0	1.0	1.8		0.8	EUH-3			0.8	20	2	58
59	20				1.0	LOI I-Z	1.0		1.0	1.8	0.8	L011-3	+		0.8	20		60
	20	-	0.5		1.0	EGRESS LIGHTS	0.6	0.9		1.0	0.8	- KITCHEN ISLAND CO	+	0.4	0.0	20	1	62
61		1	0.0		1.7		1.7	0.9	2.7				+	0.4	1.0		1	
63	20	2				CU-1/DSS-1			2.1	17	1.0	SMOKE DETECTORS	+		1.0	20		64
65	-	-		4.0	1.7	- DTI LOGIC	1.7	4.0		1.7	0.0	SPARE	+			20	1	66
67	20	1		1.0		RTU CO'S	1.0	1.0	0.4		0.0	SPARE	+			20	1	68
69	20	1		0.4		KITCHEN ISLAND CO	0.4		0.4	0.0	0.0	SPARE	+			20	1 1	70
71	20	1				SPARE	0.0	0.0		0.0	0.0	SPARE	+			20	1	72
73	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	74
75	20	1				SPARE	1.7		0.0		0.0	SPARE	\perp			20	1	76
77	20	1				SPARE	1.7			0.0	0.0	SPARE				20	1	78
79	20	1				SPARE	0.0	6.4			6.4	LE2	\perp	1.5	4.9	70	3	80
81	20	1				SPARE	0.0		8.5		8.5	-		5.1	3.4	-		82
83	20	1				SPARE	0.0			5.5	5.5	-		1	4.5	-	-	84
ТОТА	LS:					CONNECTED kVA PER F			38	34			CONN	ECTED	TOTA	L kVA	106	
						CONNECTED AMPS PER F	PHASE	281	316	285		CONNECTED AV	'ERAGE	<u>AMPS</u>	PER P	HASE	294	
NEC [DIVER	SIFIED	LOAD (CALCU	LATIO	NS												
		LIGHTI	NG 4k\	/A @12	25% =	5 kVA	ALL	OTHE	R LOAE	OS @10	00% =	74 kVA	DI	VERSI	FIED T	OTAL I	kVA =	98
		PTACLE		_		10 kVA		% OF L		_		0 kVA	AVER/	AGE AN	/IPS PE	R PH	ASE =	27
I		/AINDE		-		9 kVA												

	S/PHA					PANEL SIZE & TYPE:		SIZE &	TYPE:		F" }	LOCATION:		ATING	:	NOTE	S:	
	08 V, 3					22" W x 6" D, BOLT-ON		MP MA					10,000	0 AIC				
	SSORI					Y, IDENTIFICATION, GROUNDING B.						DESCRIPTION .	T	NAD (1)	(0)	000		
CKT	OCP			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION		AD (k\		OCP		C
NO	 	POLE		CO	PWR	LIGHTING	kVA	Α	В	С	kVA	DDVED LAUNDDV E407	LTG	co	PWR	30	POLE	N
1 3	20	1	1.5 1.6			LIGHTING	1.9 2.0	2.8	2.9		1.3	DRYER LAUNDRY F127	1		1.3 1.3	30	2	- 1
<u> </u>	30	2	1.0		1.3	DRYER LAUNDRY F101	1.3		2.9	2.9	1.6	- ROOMS F125,F126		1.4	0.2	20	-	
	30				1.3	DRIER LAUNDRI FIUI	1.3	2.3		2.9	1.0	WASHER LAUNDRY F127	1	1.4	0.2	20	1	
9	20	1		1.4	0.2	- ROOMS F103,F104	1.6	2.3	2.0		0.4	CO LAUNDRY F127		0.4		20	1	<u>`</u>
9 11	20	1		1.0	0.2	WASHER LAUNDRY F101	1.0		2.0	2.2	1.2	ROOM F119		1.1	0.1	20	1	<u>'</u> 1
13	20	1		0.6		CO ROOMS F101,F102	0.6	1.8		2.2	1.2	ROOM F122		1.1	0.1	20	1	<u>'</u> 1
15	20	1		1.1	0.1	ROOM F110	1.2	1.0	1.5		0.3	CO/EF-1 CUST. F124	1	0.2	0.1	20	1	<u>'</u> 1
17	20	1		1.1	0.1	ROOM F107	1.2		1.5	2.1	0.9	CO DINING F130	1	0.2	0.1	20	1	1
19	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2	1.8		۷.۱	0.6	CO FAMILY F131		0.6		20	1	
21	20	1		1.1	0.1	ROOM F111	1.2	1.0	2.4		1.2	ROOM F118	1	1.1	0.1	20	1	2
23	20	1		0.6	0.1	CO DINING F113	0.6		2.7	1.6	1.0	REFRIGERATOR F132		1.0	0.1	20	1	
25	20	1		0.9		CO FAMILY F114	0.9	3.3		1.0	2.4	RANGE F132		1.0	2.4	50	2	
27	20	1		1.0		REFRIGERATOR F115	1.0	0.0	3.4		2.4	-			2.4	-		
29	50	2			2.4	RANGE F115	2.4		0.1	3.4	1.0	GARBAGE DISP. F132			1.0	20	1	3
31	-				2.4	-	2.4	3.4			1.0	DISHWASHER F132			1.0	20	1	3
33	20	1			1.0	GARBAGE DISP. F115	1.0	0.1	1.2		0.2	KITCHEN CO F132		0.2	1.0	20	1	3
35	20	1			1.0	DISHWASHER F115	1.0			2.9	1.9	RTU-1		<u> </u>	1.9	30	3	3
37	20	1		0.2		CO KITCHEN F115	0.2	2.1			1.9	-			1.9	-	-	3
39	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	_	4
41	-	-			1.9	-	1.9			3.8	1.9	RTU-1			1.9	30	3	4
43	-	-			1.9	-	1.9	3.8			1.9	-			1.9	-	-	4
45	30	3			1.9	RTU-1	1.9		3.8		1.9	-			1.9	-	-	4
47	-	-			1.9	-	1.9			2.9	1.0	EUH-2			1.0	20	2	4
49	-	-			1.9	-	1.9	2.9			1.0	-			1.0	-	-	5
51	20	2			1.7	EUH-1	1.7		2.5		0.8	EUH-3			0.8	20	2	5
53	-	-			1.7	-	1.7			2.5	0.8	-			0.8	-	-	5
55	20	2			1.0	EUH-2	1.0	1.3			0.4	EGRESS LIGHTS	0.3			20	1	5
57	-	-			1.0	-	1.0		2.7		1.7	CU-1/DSS-1			1.7	20	2	5
59	20	1		0.4		KITCHEN ISLAND CO	0.4			2.1	1.7	-			1.7	-	-	6
61	20	1		8.0		RTU CO'S	0.8	1.2			0.4	KITCHEN ISLAND CO		0.4		20	1	6
63	20	1				SPARE	0.0		1.0		1.0	SMOKE DETECTORS			1.0	20	1	6
65	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	6
67	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	6
69	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	7
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	7
TOTA	LS:					CONNECTED kVA PER	PHASE	27	27 226	26			CONN	ECTEI AMPS	O TOTA	L kVA	80	

25% OF LARGEST MOTOR =

0 kVA

RECEPTACLES 10kVA @100% =

REMAINDER 10kVA @ 50% =

10 kVA

5 kVA

Donald L. Welch Architect THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, PRAPHIC REPRESENTATION & MODELS THEREOF, ARE PROPRIETARY & CAN NOT B COPIED, DUPLICATED, OR COMMERCIALLY EXPLOITED IN WHOLE OR IN PART WITHOUT THE SOLE AND EXPRESS WRITTEN PERMISSION FROM DONALD L. WELCH THESE DRAWINGS ARE AVAILABLE FOR IMITED REVIEW AND EVALUATION BY CLIENTS CONSULTANTS, CONTRACTORS, GOVERNMENT AGENCIES, VENDORS, AND OFFICE PERSONNE NLY IN ACCORDANCE WITH THIS NOTICE. consultant: **∖JOHANSEN**

project: \sim

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AVERAGE AMPS PER PHASE = 21

for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

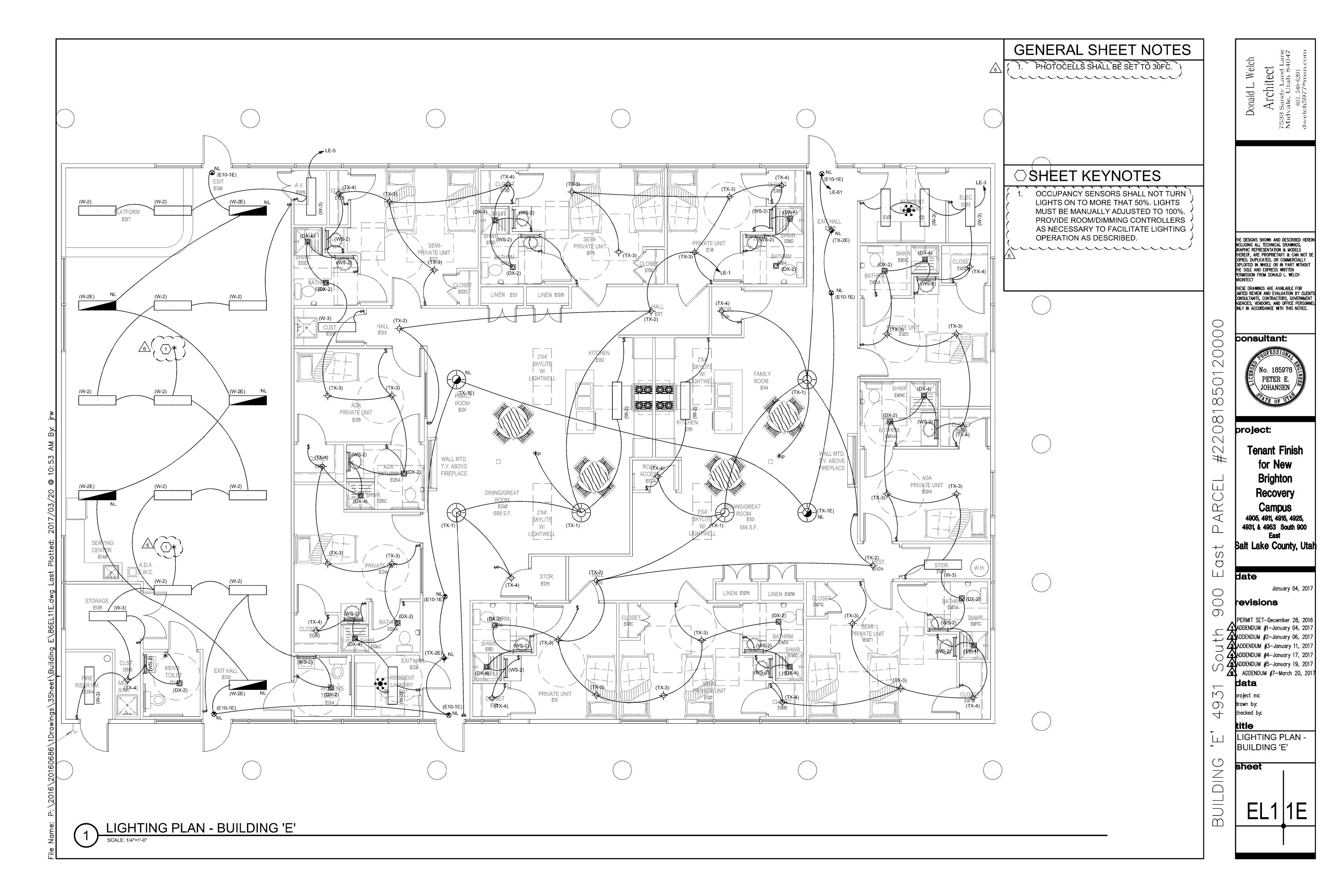
January 04, 2017

revisions

PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017
ADDENDUM #7-March 20, 2017

checked by:

SCHEDULES



LIGHTING FIXTURE SCHEDULE

NOTE TO BIDDERS: COMPLY WITH THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277)

	BALLAST	rs required	UNLESS NOTED OTHERWISE. DIMENSION	SEQUENCE =	= (LENGTH)	X WIDTH X D	EPTH) IN INCHES.	,	
			FIXTURE CHARACTERISTICS						
			BODY / AIR / MOUNTING / DOOR						
	SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
		DX	LED DOWNLIGHT; THERMALLY PROTECT	TED HOUSING	G: TO ACCO	MMODATE M	ULTIPLE TRIMS AND	REFLECTOR ASSEMBLIES	
			FOR LAMPS AS LISTED BELOW; ELECTRO	ONIC BALLAS	TS; LOW IR	IDESCENT R	EFLECTOR FINISH (E	VEN IF NOT SHOWN IN CATALOG #);	
6	~~~~	~~~~	~SELF.FLANGING JRIM-UNLESS NOTED.~	~~~~	~~~~	~~~~	*****	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
$\setminus \setminus$		DX-1	RECESSED DOWNLIGHT; VERTICAL,	1500 LU	27W	120/277V	PEACHTREE	6BLRD-IC-18-35K-80-SH-TRW-120	}
<u>6 X</u>			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	Ź
}			6"						}
ξ.			3500 K						\$
5			DIMMALE 0-10V						}
{									į
7)
{									į
ζ.		DX-2	RECESSED DOWNLIGHT; VERTICAL,	2000 LI	54W	120/277V	PEACHTREE	6BLRD-IC-20-35K-80-SH-RCA-120	3

DX-2	RECESSED DOWNLIGHT; VERTICAL,	2000 LI	54W	120/277V	PEACHTREE	6BLRD-IC-20-35K-80-SH-RCA-120
	FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT
	6"					
	3500K, 90 CRI					
	2000 LUMENS					
	DIMMABLE 0-10V					
	DAMP LOCATION					
DX-4	RECESSED DOWNLIGHT; LED	1250 L	27W	120/277V	PEACHTREE	6BLRD-IC-13-35K-80-SH-RCA-WL-120
	6" SHOWER LIGHT	3500k			EATON	SLD612-80-35-WH WITH H7ICAT HOUSING
	4000k					OR EQUIVALENT
E	E SUFFIX INDICATES THAT FIXTURE IS P	ROVIDED WI	TH AN EME	ERGENCY BAT	TERY PACK TO PR	OVIDE POWER LED LAMPS,

E10-1E	EMERGENCY BATTERY PACK. self testing ballasts EXIT SIGN: METAL HOUSING; CEILING MOULENS; GREEN LETTERS ON CLEAR BACKS MOUNT MODELS. CONTRACTOR TO PROVINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE: WITH EMERGENCY BATTERY PACK	ROUND. M	UST MEET N	RROWS PEF FPA ILLUMIN VEL WALL M	NATION STANDARDS. NOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	UNITS SHOWN ARE CEILING
E10-1E	EXIT SIGN: METAL HOUSING; CEILING MOULENS; GREEN LETTERS ON CLEAR BACKGE MOUNT MODELS. CONTRACTOR TO PROVINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	BROUND. M /IDE MATCH LED	UST MEET N HING LOW LE 2W	FPA ILLUMIN VEL WALL N 120/277V	LITHONIA EMERGI LITE EVENLINT R PLANS; LED LAMPS NATION STANDARDS. MOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	PS1400QD SD FPDL/U BAL1400 S; EDGE LIGHTED CLEAR UNITS SHOWN ARE CEILING RE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-1E	LENS; GREEN LETTERS ON CLEAR BACKG MOUNT MODELS. CONTRACTOR TO PROV SINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	BROUND. M /IDE MATCH LED	UST MEET N HING LOW LE 2W	FPA ILLUMIN VEL WALL N 120/277V	EMERGI LITE EVENLINT R PLANS; LED LAMPS NATION STANDARDS. MOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	FPDL/U BAL1400 E; EDGE LIGHTED CLEAR UNITS SHOWN ARE CEILING ERE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-1E	LENS; GREEN LETTERS ON CLEAR BACKG MOUNT MODELS. CONTRACTOR TO PROV SINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	BROUND. M /IDE MATCH LED	UST MEET N HING LOW LE 2W	FPA ILLUMIN VEL WALL N 120/277V	EVENLINT R PLANS; LED LAMPS NATION STANDARDS. NOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	BAL1400 G; EDGE LIGHTED CLEAR UNITS SHOWN ARE CEILING RE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-1E	LENS; GREEN LETTERS ON CLEAR BACKG MOUNT MODELS. CONTRACTOR TO PROV SINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	BROUND. M /IDE MATCH LED	UST MEET N HING LOW LE 2W	FPA ILLUMIN VEL WALL N 120/277V	R PLANS; LED LAMPS NATION STANDARDS. NOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP	E; EDGE LIGHTED CLEAR UNITS SHOWN ARE CEILING RE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-1E	LENS; GREEN LETTERS ON CLEAR BACKG MOUNT MODELS. CONTRACTOR TO PROV SINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	BROUND. M /IDE MATCH LED	UST MEET N HING LOW LE 2W	FPA ILLUMIN VEL WALL N 120/277V	NATION STANDARDS. NOUNTED UNITS WHE DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	UNITS SHOWN ARE CEILING RE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
	MOUNT MODELS. CONTRACTOR TO PROVINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	IDE MATCH	HING LOW LE	VEL WALL N 120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	RE REQUIRED. LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
	SINGLE FACE: WITH EMERGENCY BATTERY PACK DUAL FACE:	LED	2W	120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	LECSGWA 45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
	WITH EMERGENCY BATTERY PACK DUAL FACE:				MCPHILBEN EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	45VL-1-GC-XX EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E	DUAL FACE:	LED	2W	120/277V	EELP LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	EDG 1 GC W EM LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	LITHONIA EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	LRP W 1 GC XX 120/277 SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	EVENLITE ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	SOV-AC-G-1M WH XX UC EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	ISOLITE CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	EDGL-S-S-G-BK (BLACK HOUSING) STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	CHLORIDE LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	STDLX-X-1-GC-X LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	LIGHTOLIER DUAL-LITE MCPHILBEN EELP LITHONIA	LEAC1GCX LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	DUAL-LITE MCPHILBEN EELP LITHONIA	LECDGWA 45VL-2-GM-XX EDG 2 GC W EM
E10-2E		LED	2W	120/277V	MCPHILBEN EELP LITHONIA	45VL-2-GM-XX EDG 2 GC W EM
					MCPHILBEN EELP LITHONIA	45VL-2-GM-XX EDG 2 GC W EM
					EELP LITHONIA	EDG 2 GC W EM
					LITHONIA	
					EVENLITE	SOV AC G 2M WH XX UC
					ISOLITE	EDGL-D-S-G-BK (BLACK HOUSING)
						,
					CHLORIDE	STDLX-X-2-GC-X
HG	EXTERIOR CANOPY FIXTURES				LIGHTOLIER	LEAC2GC7
HG-1	RECESSED SQUARE LED CANOPY LIGHT,	LED	50W	120/277V	MCGRAW EDISON	LRC-B16-1-LED-E1-WST
	BRONZE FINISH, WIDE DISTRIBUTION	3000K	3800 LU			
DC .	WALL MOUNTED TRAPEZOIDAL WALL PAC	CK, WET LO	CATION			
				40010==14		
OC-32	LED WALL PACK, TYPE IV OPTICS	LED	24W	120/277V	LITHONIA	WST-LED-1-10A700-35K-SR4-MVOLT
	BRONZE FINISH	3500K	1600 LU			
X	SPECIAL FIXTURES AS INDICATED. MEET	ALL REQUII	REMENTS OF	F SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND
	FINISH APPROVAL REQUIRED.					
TX-1	Surface Mounted Drum	LED	100W	120/277V	SHAPER	122-36-L7-UNV-SN
	36" Diameter	3500K			SPI	AIC11866-L100.4WDML-PT04-120-277V-3500K-FB0
-X-2	Surface Mounted Drum	LED	37W	120/277V	SHAPER	122-24-L5-UNV-SN
	24" Diameter	3500K			SPI	AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01
X-3	Surface Mounted	LED	24W	120/277V	BETACALCO	FIERO-60 1200-3500K-PC-SN
	Bedroom Light	3500K				
-X-4	Surface Mounted	LED	22W	120/277v	METALUX	FM-15-W-R-30-R
	Closet Light	3000K				
-X-5	PENDANT	LED	21W	120/277V	SPI	SIP11783-2F21-120-F-AC1

W	LOW PROFILE WRAPAROUND: SURFACE ACRYLIC PRISMATIC DIFFUSER; WHITE E					
W-2	NARROW BODY WRAPAROUND; APPROX; 3" X 12" X 48" X 48". 5500 LUMENS	LED 3500K	57W	277/120V	EATON	DSI-WD-3-L35-1-D-UNV-SU-JB-4-STD-FC-W
W-3	NARROW BODY WRAPAROUND; APPROX; 3" X 10" X 48" X 48". 4800 LUMENS	LED 3500K	48W	277/120V	LITHONIA COLUMBIA METALUX DAYBRITE	LBL4 LP840 LWC4 40 ML EU WNLED LD1 41 1 UNV L835 CD1 U OWL450L835UNV
ws	WALL MOUNTED LED LOCATED ABOVE W	/ALL ELEME	ENT (MIRRORA	/WHITEBOAF	RD, ETC.): AS INDIC	CATED ON DRAWINGS;
WS-2	36" LED VANITY LIGHT SATIN CHROM FINISH 2.25" WIDE	LED 3500K	19W	120/277V	EDGE LIGHT EUREKA LBL	TW12 S11 1RE 36" 30k CH 3541 35 LED 17.40 120/277 SC WH LW496 OP XX LED 277
ZX	OUTDOOR AREA LIGHT. SINGLE HEAD PI BELOW; RATED 100 MPH WITH 1.3 GUST		S SHOWN ON	DRAWINGS	. WET LABEL. LEC	D LIGHT ENGINE, OPTICS AND DRIVERS ACCESSIBLE FROM
ZX-2	LED POLE MOUNTED AREA LIGHT, TYPE II OPTICS, BRONZE FINISH HOUSE SIDE SHIELD 9' SSS POLE, FINISH TO MATCH FIXTURE	LED 3500K	72W 3500 LU	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T2M-MVOLT-HS
ZX-4	LED POLE MOUNTED AREA LIGHT, TYPE IV OPTICS, BRONZE FINISH HOUSE SIDE SHIELD	LED 3500K	72W 3500 LU	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T4M-MVOLT-HS

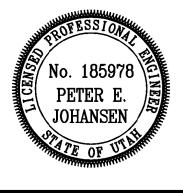
9' SSS POLE, FINISH TO MATCH FIXTURE

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Donald L. Welch

consultant:



project:

Brighton 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

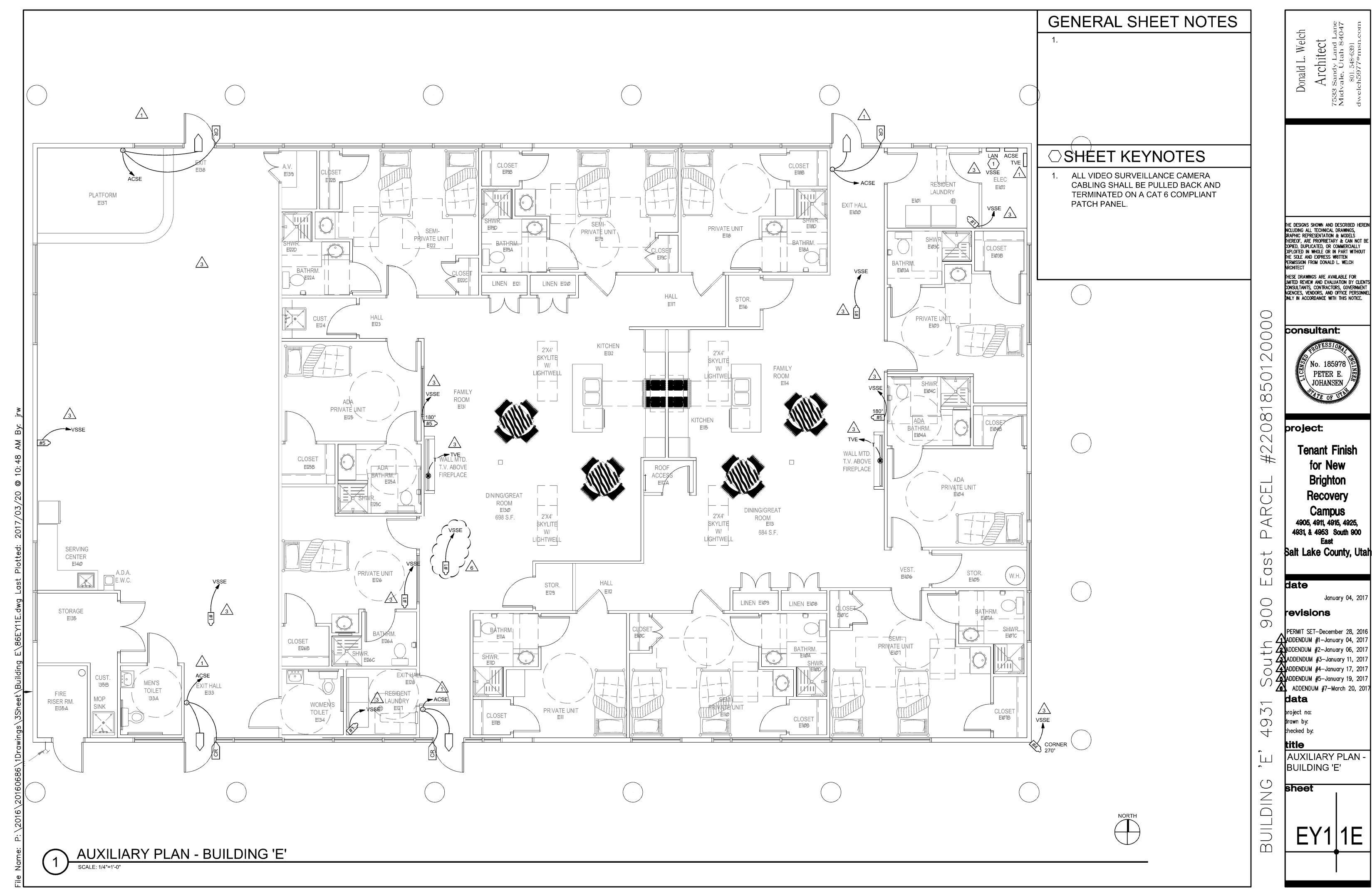
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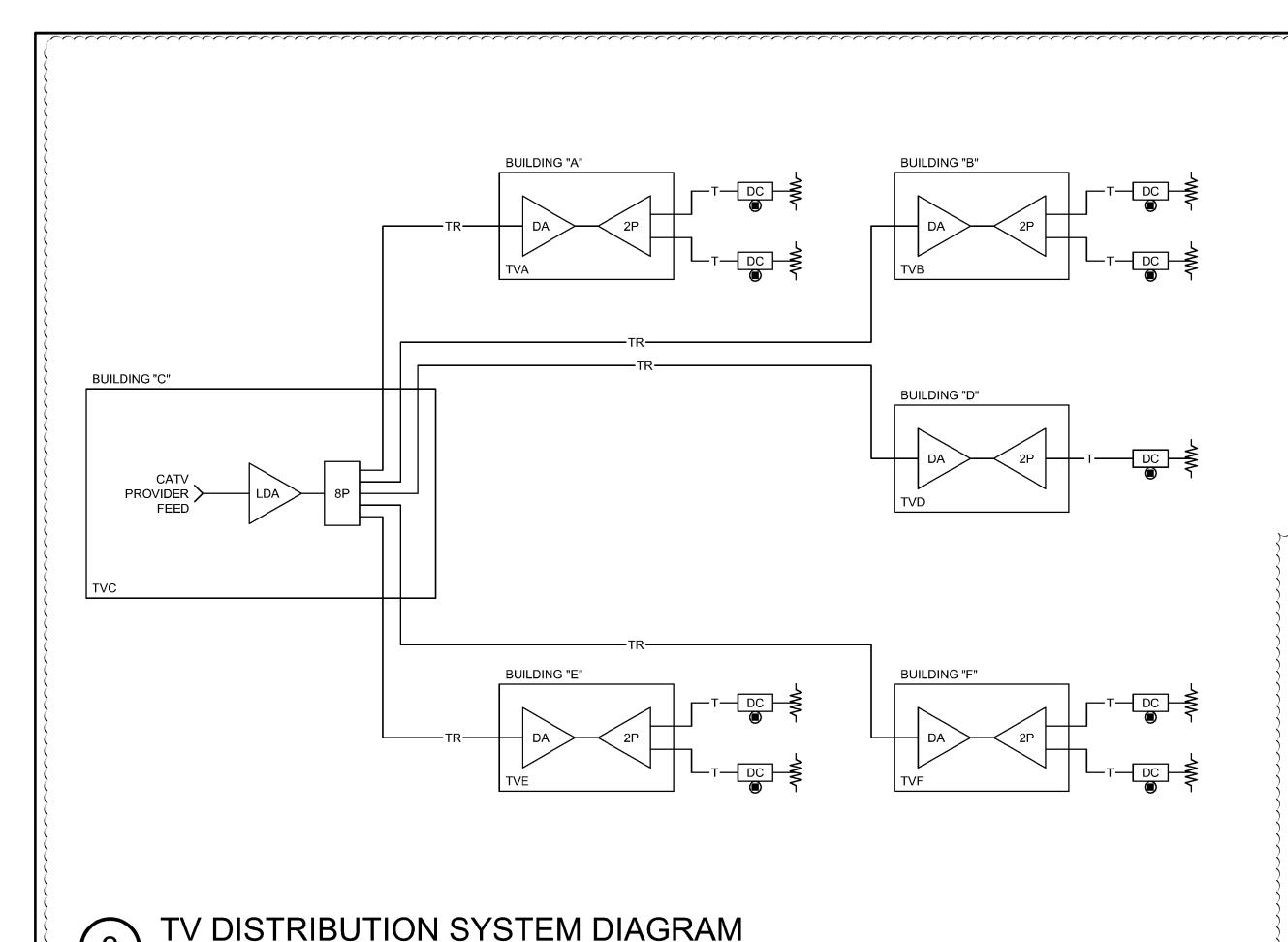
PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017 ADDENDUM #2-January 06, 2017 ADDENDUM #7-March 20, 2017

FIXTURE SCHEDULE

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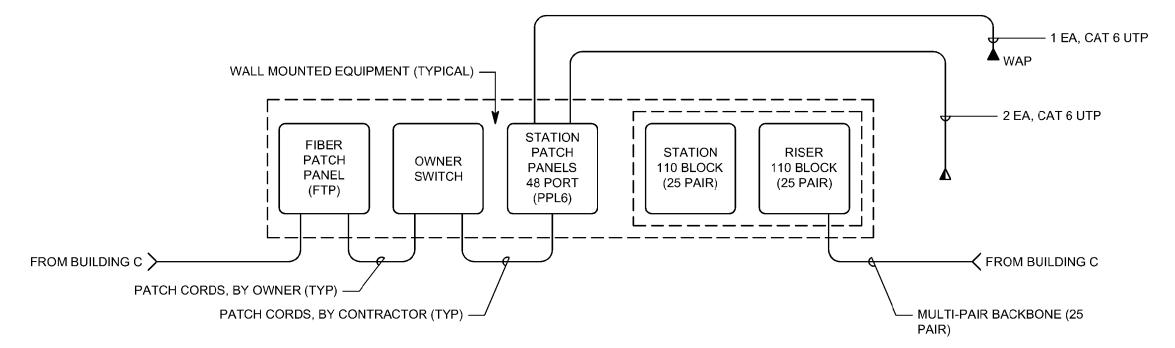
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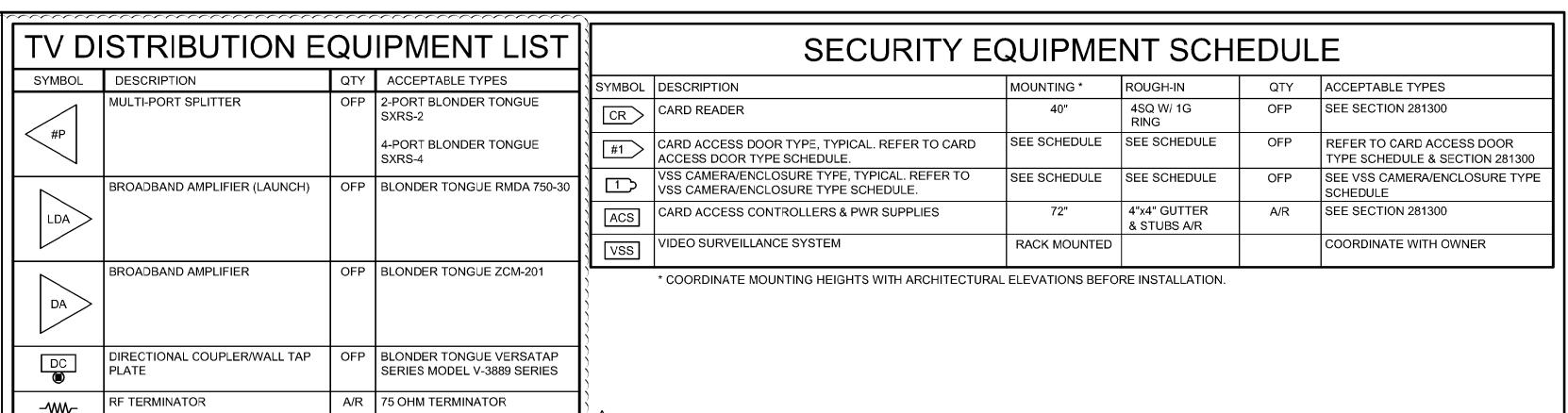
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STRUCTURED CABLING SYSTEM NOTES

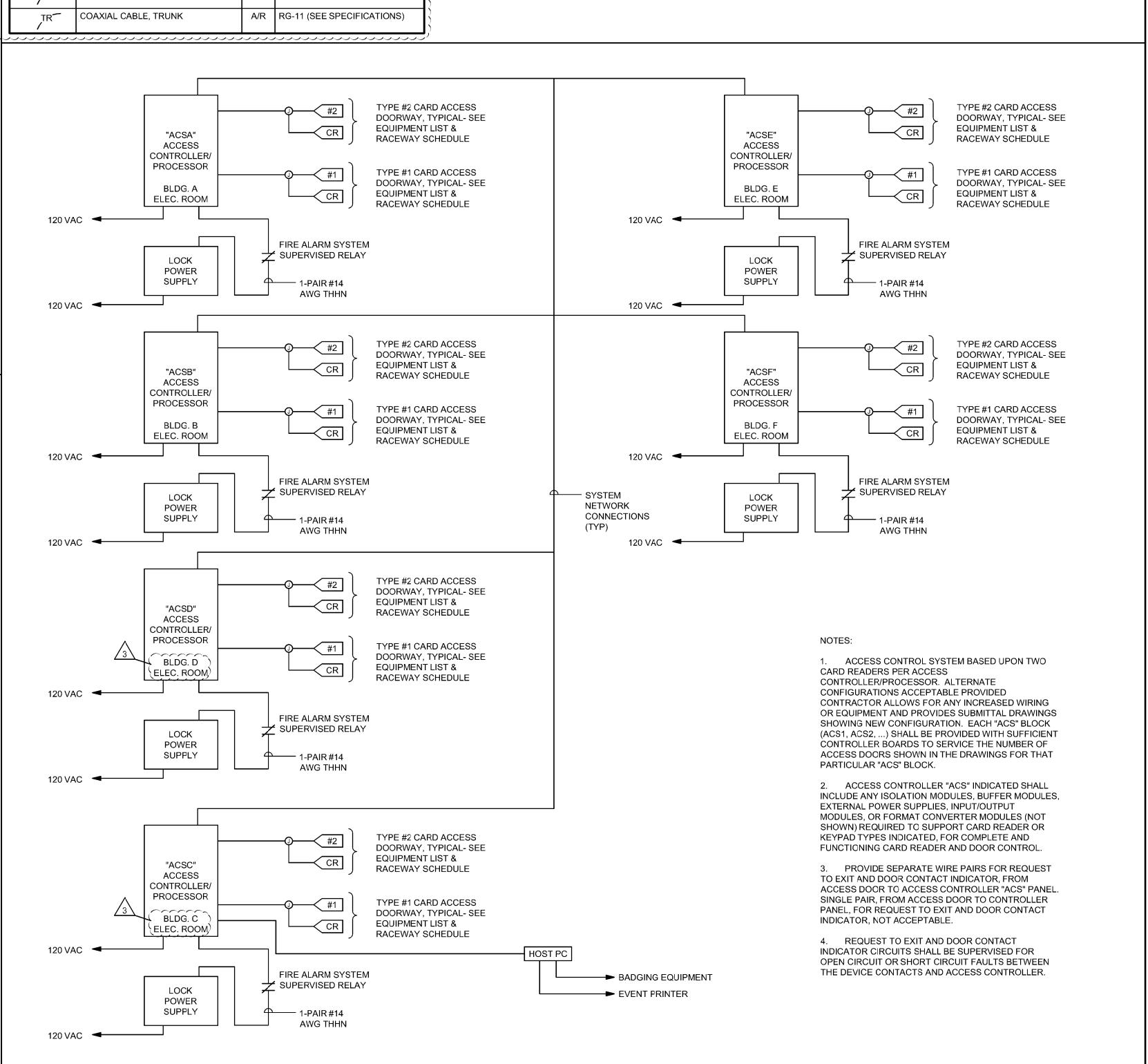
- 1. REFER TO EP SERIES SHEETS FOR VOICE/DATA OUTLET QUANTITIES AND LOCATIONS.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- 3. ALL CABLE, REGARDLESS OF LENGTH, INSTALLED UNDER THIS CONTRACT ARE TO BE LABELED.
- 4. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDIE" CLIPS INSTALLED ABOVE ACCESSIBLE CEILINGS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDIE" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- 5. GROUND ALL EQUIPMENT AS DETAILED. COORDINATE GROUNDING WITH ELECTRICAL CONTRACTOR.
- 6. ALL CABLE, FIBER, AND UTP TO TERMINATED ON BOTH ENDS.
- 7. ALL VOICE/DATA SYSTEMS CABLE IS TO BE INSTALLED INSIDE MINIMUM 1" CONDUIT. STUB CONDUIT FROM JUNCTION BOX LOCATION TO CABLE MANAGEMENT SYSTEM SPECIFIED FOR ACCESSIBLE CEILING.
- 8. INSTALL ALL ELECTRONIC SYSTEMS EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM BUILDING STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.



HORIZONTAL WALL MOUNT DIAGRAM (TYP. FOR BUILDINGS A, B, D, E, & F)



COAXIAL CABLE, HORIZONTAL DROP | A/R | RG-6 (SEE SPECIFICATIONS)



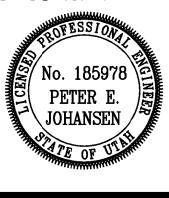
ACCESS CARD SYSTEM (ACS) RISER DIAGRAM

Donald L. Welch
Architect
533 Sandy Land Lane
Aidvale, Utah 84047
801.548-6391

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Tenant Finish for New Brighton Recovery Campus 4905, 4911, 4915, 4925,

East alt Lake County, Utah

4931, & 4953 South 900

date

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revisions

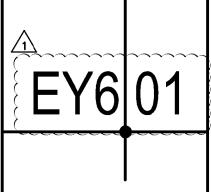
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ADDENDUM #7—March 20, 2017 **Jata**

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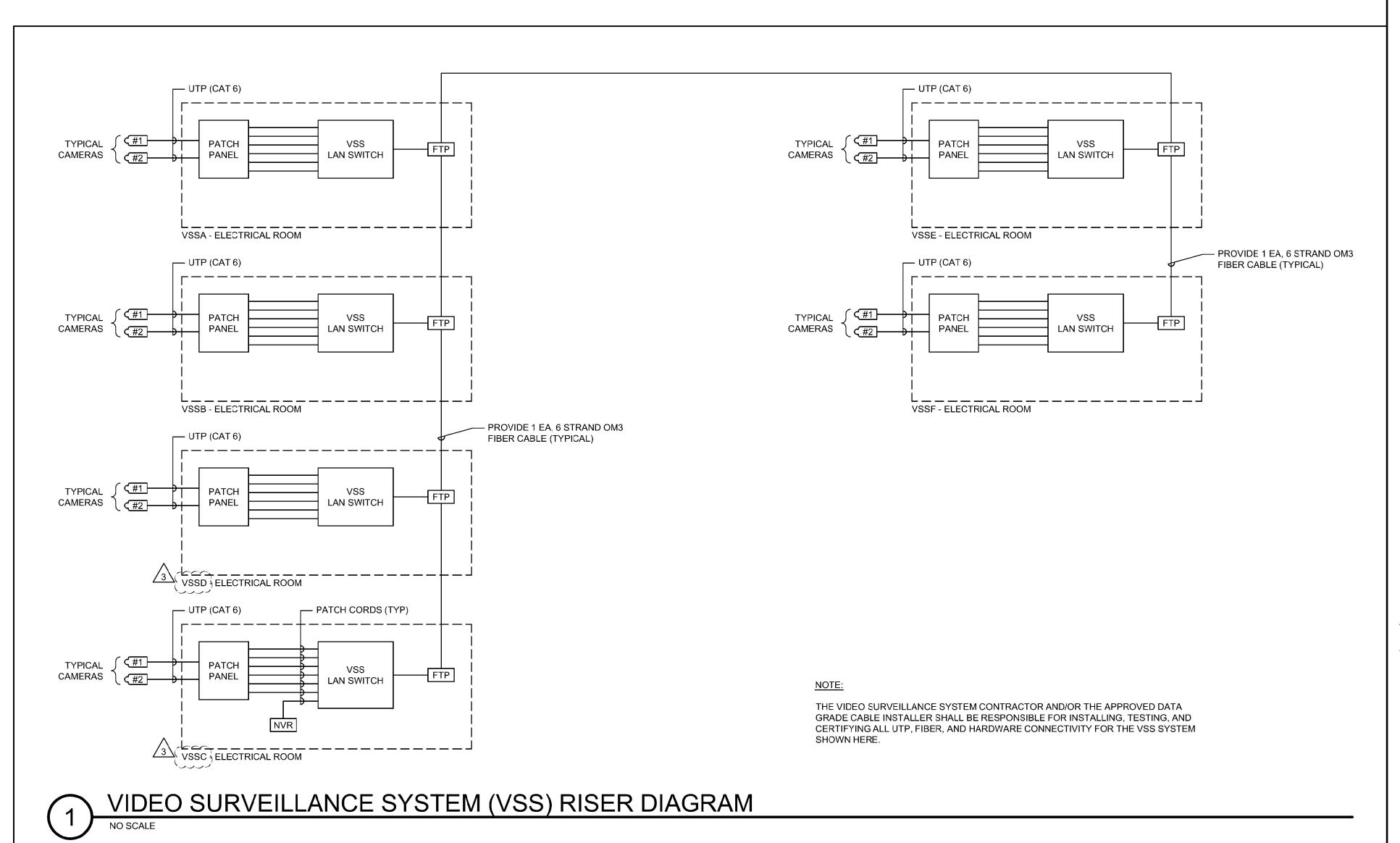
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AUXILIARY RISER DIAGRAMS



	VSS C	AMERA/ENCLOSUR	E TYPE SCHEDULE
CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES
TYPE 1	#1	INTERIOR CAMERA - FIXED DOME (CEILING MOUNTED UNLESS J-BOX SHOWN)	* CAMERA/ENCLOSURE-FLUSH MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND * POE
	vss		PROVIDE AVIGILON 1.0C-H4A-DC1 OR APPROVED EQUAL.
YPE 2	#2	INTERIOR CAMERA - FIXED DOME (WALL MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * WALL MOUNT HARDWARE
	vss		PROVIDE AVIGILON 1.0C-H4A-D1 OR APPROVED EQUAL.
ГҮРЕ 3	#3 VSS	EXTERIOR CAMERA - MULTI SENSOR (WALL PENDANT MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * ENVIRONMENTAL ASSEMBLY * 180°
			PROVIDE AVIGILON 9W-H3-3MH-DP1 OR APPROVED EQUAL. WALL MOUNT - AVIGILON MNT-PEND-WALL CORNER MOUNT - AVIGILON MNT-AD-CORNER
YPE 4	#4 VSS	EXTERIOR CAMERA - MULTI-SENSOR (CORNER PENDANT MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * ENVIRONMENTAL ASSEMBLY * 270°
			PROVIDE AVIGILON 9W-H3-3MH-DP1 OR APPROVED EQUAL. WALL MOUNT - AVIGILON MNT-PEND-WALL CORNER MOUNT - AVIGILON MNT-AD-CORNER
YPE 5	#5	INTERIOR CAMERA - MULTI-SENSOR (CEILING MOUNTED)	* CAMERA/ENCLOSURE-FLUSH MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * 180° - 270°
	VSS		PROVIDE AVIGILON 9W-H3-3MH-DC1 OR APPROVED EQUAL.
TYPE 6	#6	EXTERIOR CAMERA - FIXED BULLET (WALL MOUNTED)	* CAMERA/ENCLOSURE-SURFACE MOUNTED * CAT6 SIGNAL CABLE AS INDICATED TO HEADEND (VSS) * POE * ENVIRONMENTAL ASSEMBLY
	vss		PROVIDE AVIGILON 2.0C-H4A-B02-IR OR APPROVED EQUAL.

	VIDEO SURVEILLANCE EQUIPMENT SCHEDULE									
	SYMBOL	DESCRIPTION	ACCEPTABLE TYPES							
	POE	POE NETWORK SWITCH	NETGEAR							
\wedge	NVR	NETWORK VIDEO RECORDER	SEE SPECIFICATION 282300							
<u>/</u> 3\	[#1)	VIDEO CAMERA	SEE VSS CAMERA SCHEDULE							
	CABLE	4 PAIR, CAT 6, UTP PLENUM	SEE SPECIFICATIONS							
	OFP = OBTAIN FROM PLANS; A/R = AS REQUIRED									



 \sim ARCEL O S 0 4 BUILDING

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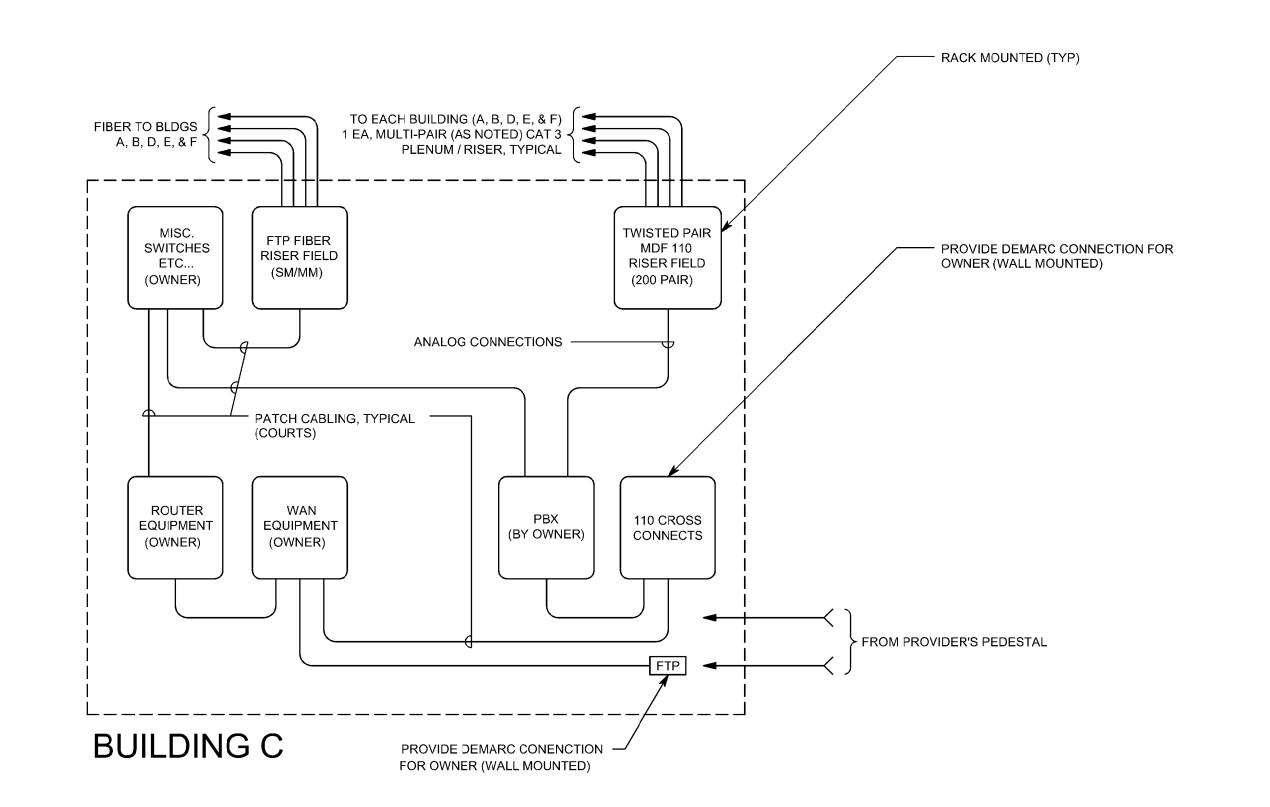
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AUXILIARY RISER DIAGRAMS

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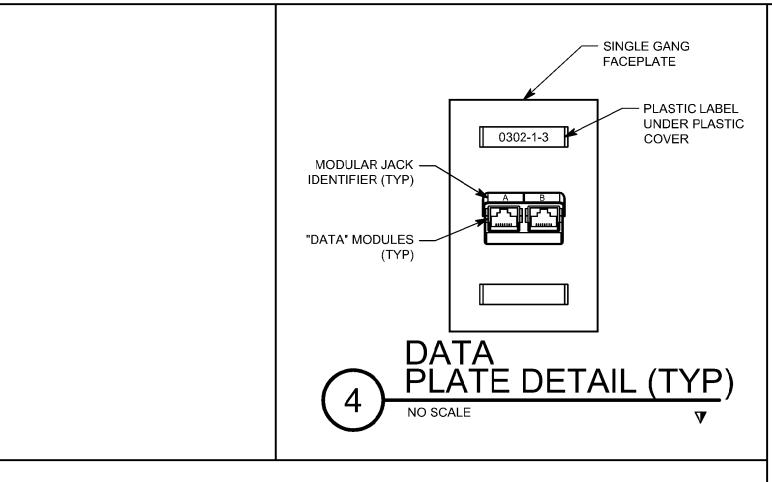
VOICE/DATA EQUIPMENT/CABLE LIST

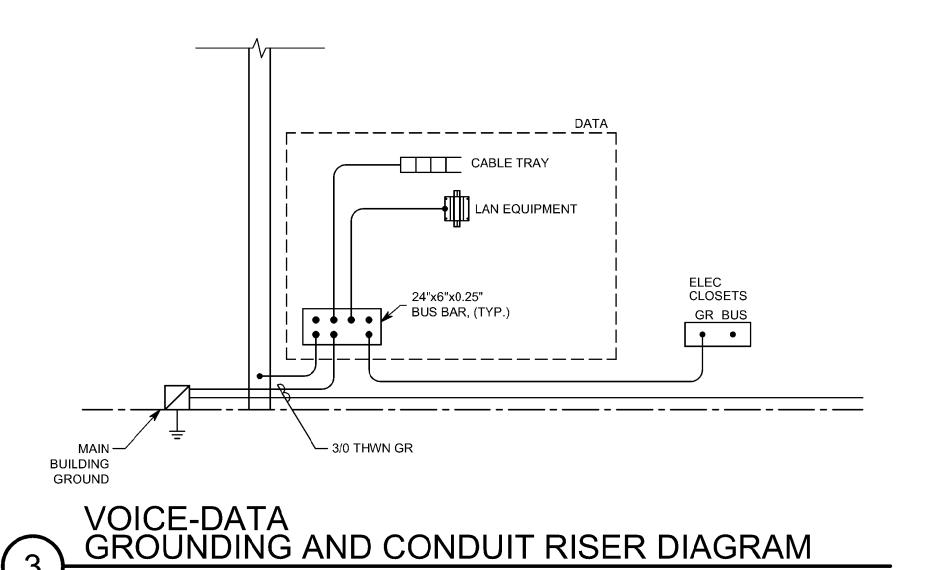
GENERAL NOTE:
THIS REPRESENTS ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHILE THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". FURNISH ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTION AND PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SECTION 16741 FOR ADDITIONAL INFORMATION. NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID AND PROVIDE COMPLETE SUBMITTAL FOR APPROVAL

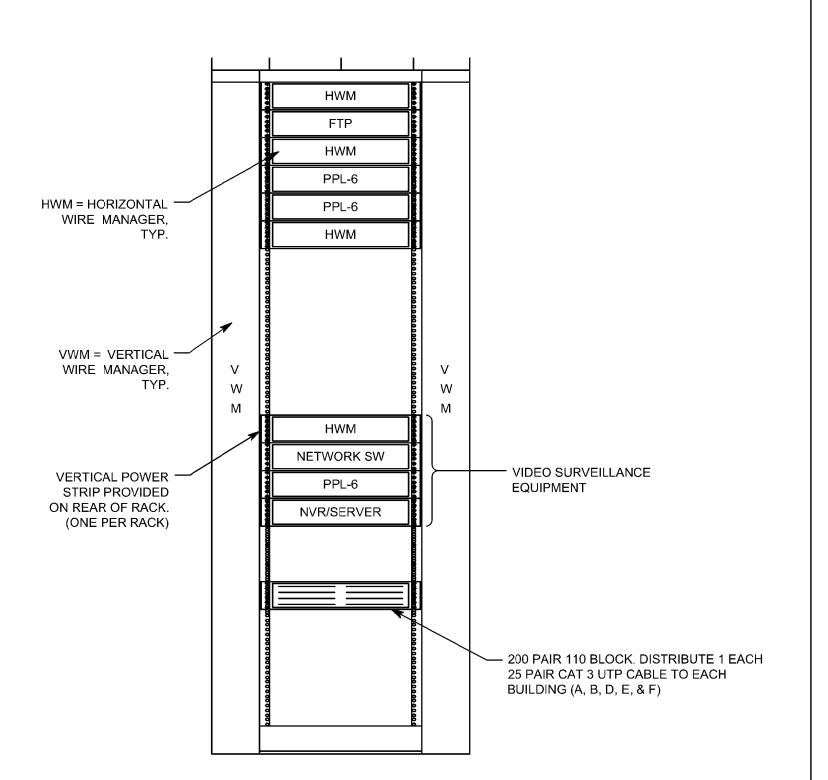
SYMBOL	ITEM DESCRIPTION	COMMENTS				
	4 PAIR 24 GAUGE CAT 6 UTP, PLENUM CABLE	SEE SPECIFICATIONS				
	6 STRAND FIBER PLENUM CABLE, MULTI-MODE (OM3)	SEE SPECIFICATIONS				
PPL6-48	48-PORT PATCH PANEL WITH CAT 6 RJ45 JACKS; MOUNTED IN RACK.	PROVIDE FOR QUANTITY OF PORTS SHOWN ON DRAWINGS, PLUS 20%				
FTP	SC TYPE CONNECTOR PANEL - PORTS AS REQUIRED	PROVIDE MODULAR TYPE WITH ADAPTOR PLATES.				
	DATA RACK, FLOOR MOUNTED	OPEN RACK, STANDARD 19", PROVIDE RACKS AS SHOWN IN ROOM LAYOUT DETAILS. SEE SPECIFICATIONS.				
▼ ▼ WAP	DATA JACK, 2 CAT 6 CABLES EACH	PROVIDE WITH CAT 6 COMPLIANT RJ45 MODULAR CONNECTORS. SEE DETAIL.				
PATCH CORDS	PATCH CORDS, CAT 6	PROVIDE 1 EACH FOR EVERY CABLE TERMINATED FROM HORIZONTAL CABLING OUTLETS.				
	110 STYLE PUNCHDOWN BLOCKS (DUAL SIDED - 1 SIDE STATION, 1 SIDE RISER)	PROVIDE QUANTITY OF PAIRS NEEDED. A 100 PAIR CABLE WOULD NEED 100 PAIR FOR EACH SIDE OF THE BLOCK				

NIC = NOT IN CONTRACT

MAIN NETWORK ROOM SINGLE LINE DIAGRAM W/UTILITY DEMARC INFORMATION

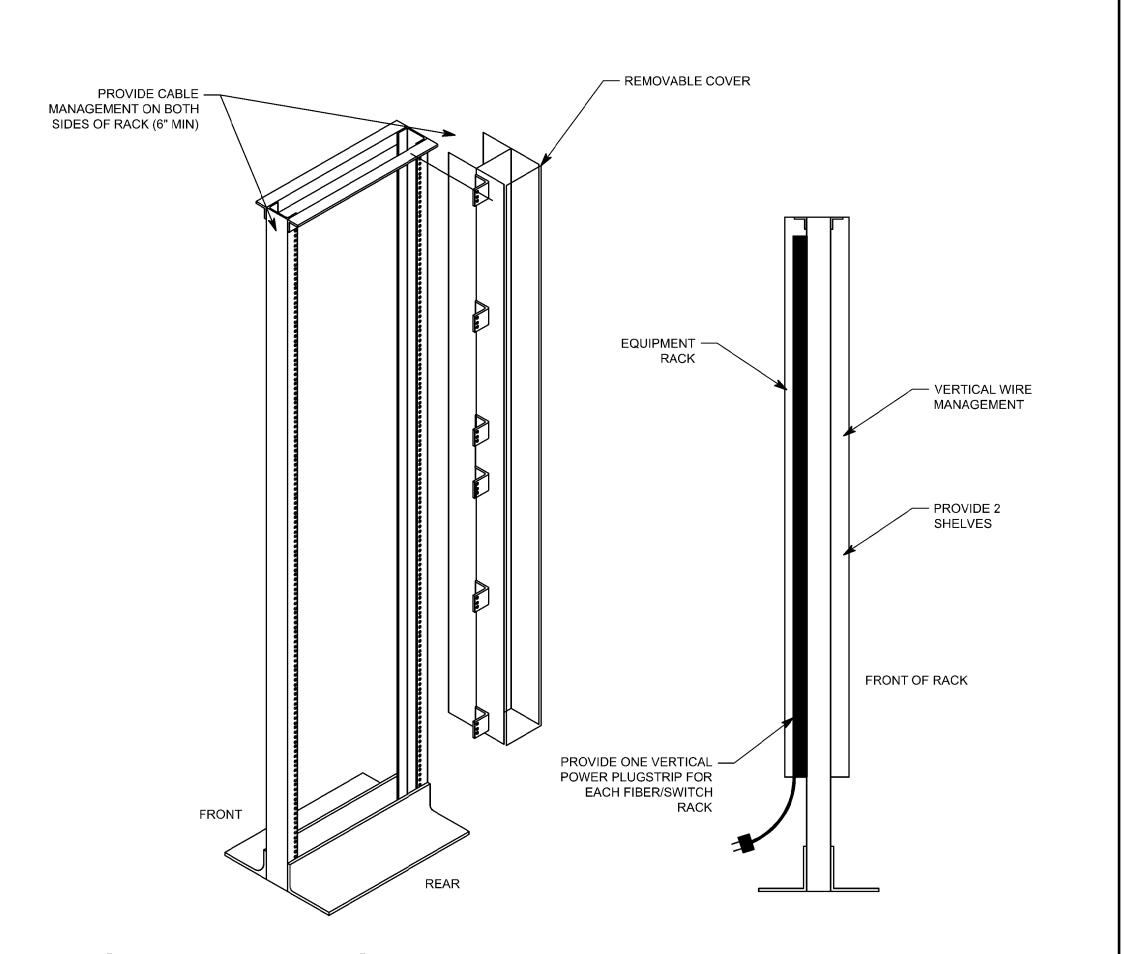






- RACK LAYOUTS ARE FOR COORDINATION PURPOSES. ALL FINAL RACK LAYOUTS ARE TO BE COORDINATED WITH OWNER PERSONNEL.
- 2. PROVIDE ALL WIRE MANAGEMENT ACCESSORIES SHOWN.

HORIZONTAL TERMINATION RACK ELEVATION - BUILDING C



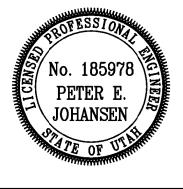
OPEN FRAME EQUIPMENT RACK/RACEWAY MOUNTING DETAILS

Donald L. Welch Architect

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for New **Brighton** Recovery Campus 4905, 4911, 4915, 4925, 4931, & 4953 South 900

Salt Lake County, Utah

January 04, 2017

revisions PERMIT SET-December 28, 2016

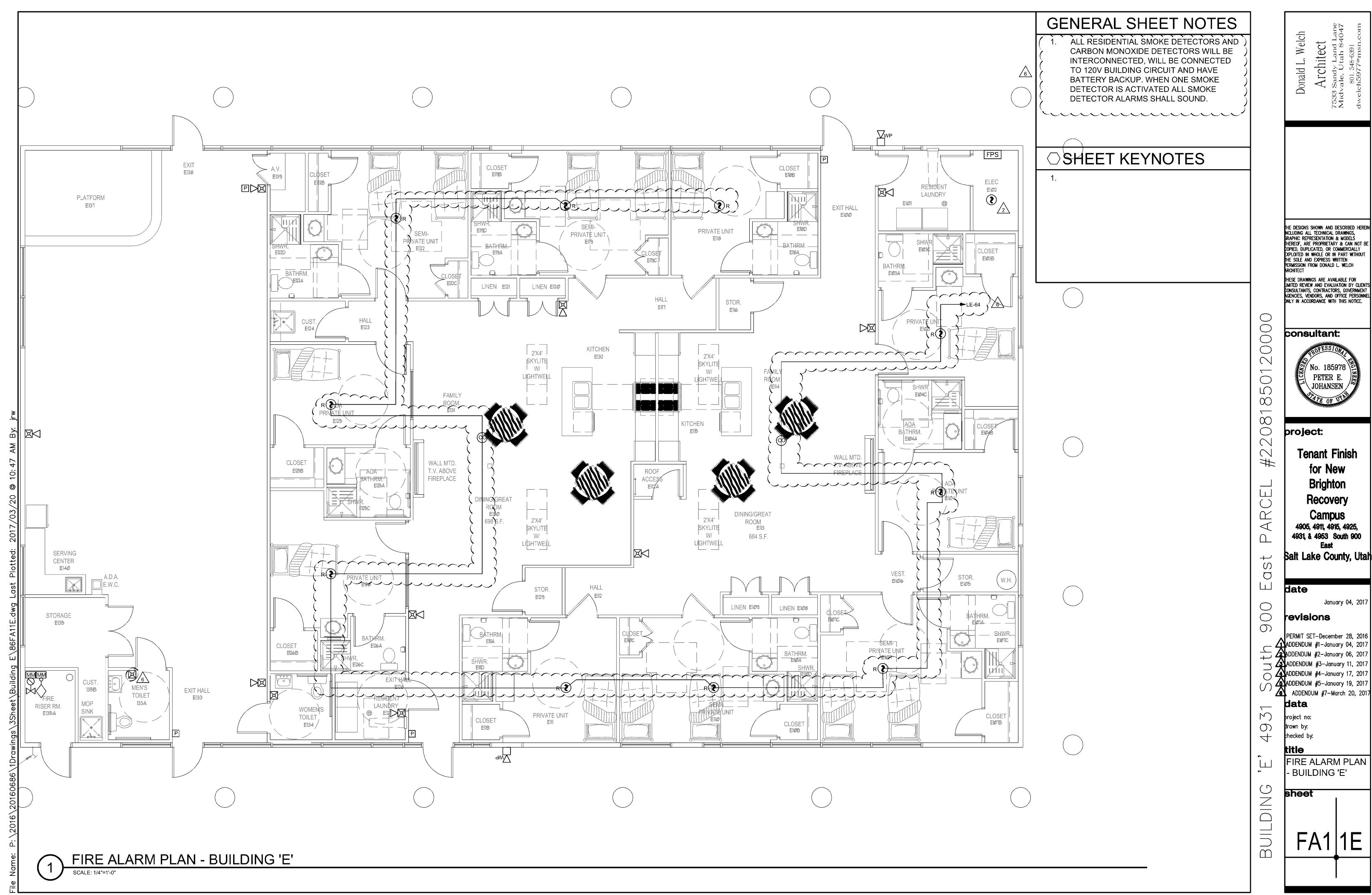
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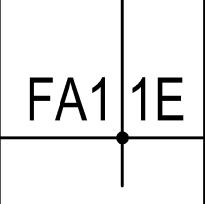
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AUXILIARY RISER

DIAGRAMS

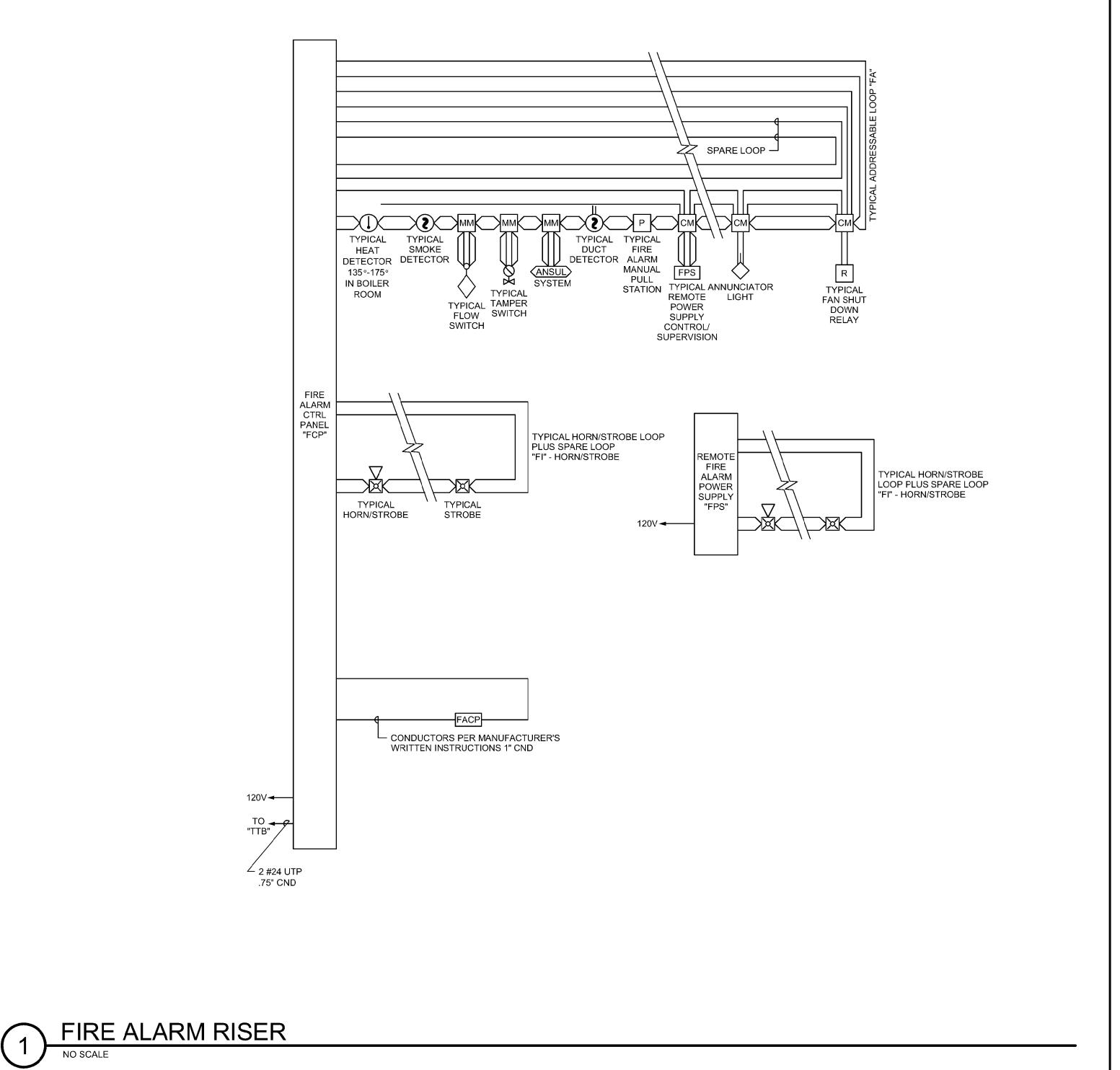
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WIRING SCHEDULE									
FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'					
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP					
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN					
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN					
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN					
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN							
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP					

				OUTPUT DEVICES									
FIRE ALARM INPUT/OUTPUT MATRIX			GENERAL ALARM BLDG 'A'	GENERAL ALARM BLDG 'B'	GENERAL ALARM BLDG 'C'	GENERAL ALARM BLDG 'D'	GENERAL ALARM BLDG 'E'	GENERAL ALARM BLDG 'F'	TROUBLE ALARM	SUPERVISORY ALARM	FAN SHUTDOWN	FIRE DAMPER	NOTES
	1	RISER BLDG 'A' FLOW		35	35	35	35	5			FA	臣	
	<u> </u>	RISER BLDG 'A' TAMPER							•	•			
	2	RISER BLDG 'B' FLOW									•		
	3	RISER BLDG 'B' TAMPER		•					•	•			
	4	RISER BLDG 'C' FLOW									•		
	5				•				•	•			
CES	6	RISER BLDG 'C' TAMPER									•		
DEVICE	7	RISER BLDG 'D' FLOW				•			•	•			
IING	8	RISER BLDG 'D' TAMPER									•		
INITIATIN	9	RISER BLDG 'E' FLOW					•		•	•			
≧	10	RISER BLDG 'E' TAMPER									•		
	11	RISER BLDG 'F' FLOW						•	•	•			
	12	RISER BLDG 'F' TAMPER									•		
	13	BLDG 'A' INITIATING LOOP	•						•	•			
	14	BLDG 'B' INITIATING LOOP		•					•	•			
	15	BLDG 'C' INITIATING LOOP			•				•	•			
	16	BLDG 'D' INITIATING LOOP				•			•	•			
	17	BLDG 'E' INITIATING LOOP					•		•	•			
	18	BLDG 'F' INITIATING LOOP						•	•	•			
	19	CIRCUIT TROUBLE							•				
	20	AC POWER LOSS							•				
	21	LOW BATTERY POWER							•				
	22	SYSTEM TROUBLE							•				
	23	REMOTE POWER SUPPLY TROUBLE											



GENERAL SHEET NOTES

- 1. PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.
- 2. PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.
- 3. FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.
- 4. BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.
- 5. VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.
- 6. RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.
- 7. PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM.
- 8. PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.
- 9. PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.
- 10. LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.
- 11. PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.
- 12. INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.
- 13. ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.
- 14. HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.
- 15. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL

DUCT ARRANGEMENT.

Donald L. Welch

Architect

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FIRE ALARM RISER DIAGRAM