

Review Comments #2

Project:Brighton Recovery Campus-Building CFrom:Jason WorthenProject No:20160686Date:April 12,2017

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

CENTERS OF
ENGINEERING EXCELLENCE
Healthcare
Higher Education
K-12 Education
Government

Houses of Worship

Special Projects

BUILDING C RESPONSES

E5. Sheet EP601: Please address the following:

C. Per NEC 250.32 a separate grounding electrode is required to be provided for each of the buildings supplied by the feeders from building A. Please clarify how this grounding electrode is to be provided. Where no grounding electrode is available please provide grounding electrode per NEC 250.50.

I. Please specify the size of the grounding electrode conductor to be provided to the grounding electrode per NEC 25.032(E) and NEC 250.66.

Response: Updated one-line diagram to show grounding electrodes and grounding electrode conductors for each building.

BUILDING C DRAWINGS

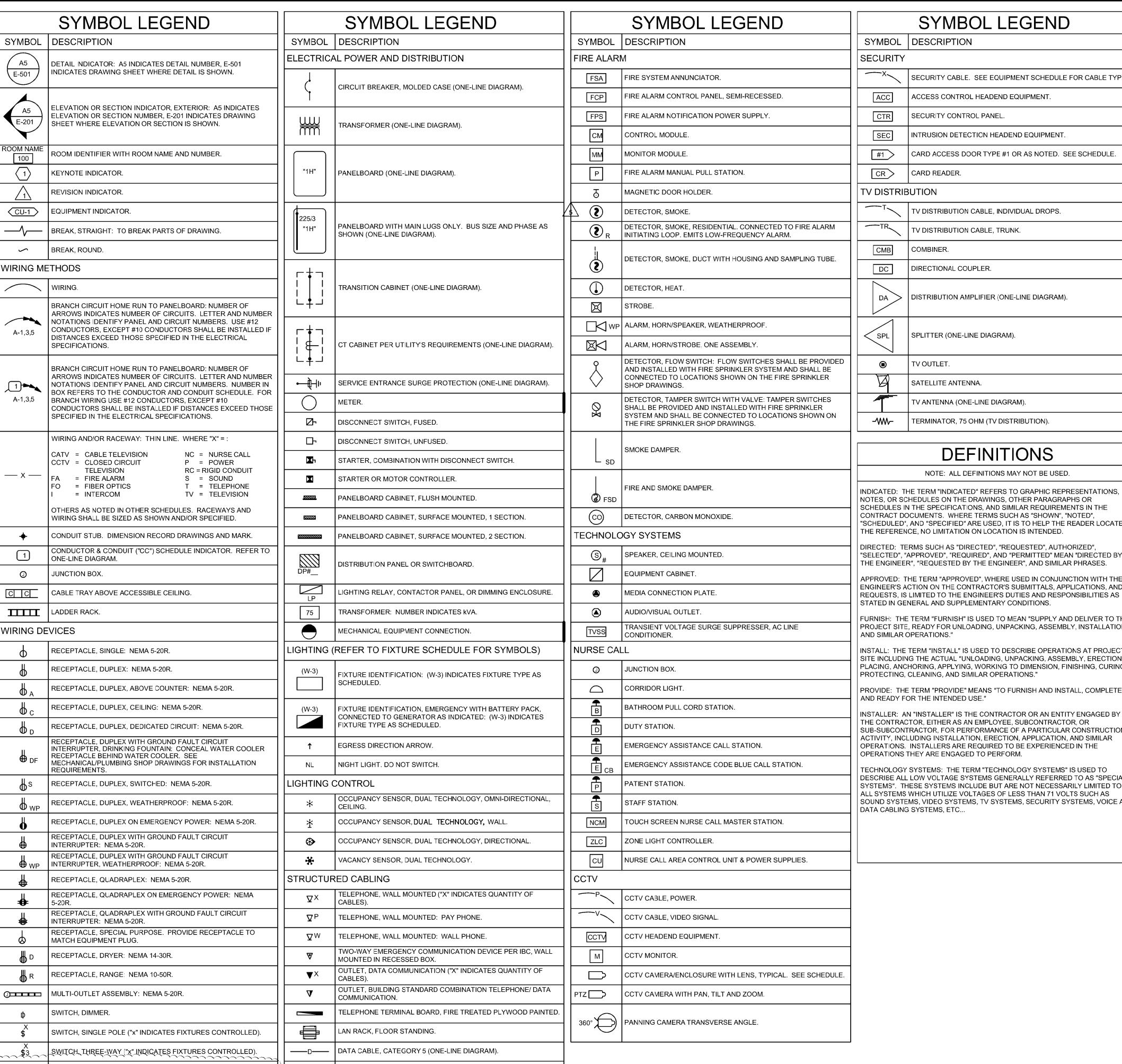
EP601 (see attached sheet)

- 1. Changed one-line diagram to shown the grounding electrode conductors for Building A as new.
- 2. Added grounding electrodes and grounding electrode conductors for the panels in buildings B, C, D, E and F.

SALT LAKE CITY 324 S. State Street Suite 400 Salt Lake City, UT 84111 phone: 801-328-5151 fax: 801-328-5155

PHOENIX 1501 W. Fountainhead Parkway Suite 340 Tempe, AZ 85282 phone: 480-621-3444 fax: 480-621-3445

www.spectrum-engineers.com 800-678-7077



VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).

REQUIRES (2) DATA DROPS PER DEVICE

WAP DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE

DATA CONNECTION: WIRELESS ACCESS POINT (WAP).

POWER POLE. REFER TO KEYED NOTE AND WIRING DEVICES

SPECIFICATIONS FOR CONFIGURATION AND DEVICES.

GENERAL ELECTRICAL NOTES

CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL 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.

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 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 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 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.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND 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.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- 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

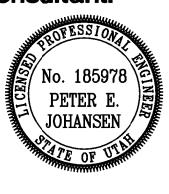
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SHEET NO	SHEET TITLE
EE001	SYMBOL SCHEDULE, SHEET INDEX
ES101	ELECTRICAL SITE PLAN
EP11C	POWER PLAN - BUILDING 'C'
EP401	TYPICAL POWER PLANS
EP501	DETAILS
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EP603	PANEL SCHEDULES
EL11C	LIGHTING PLAN - BUILDING 'C'
EL601	LIGHTING FIXTURE SCHEDULE
EY11C	AUXILIARY PLAN - BUILDING 'C'
EY601	AUXILIARY RISER DIAGRAMS
EY602	AUXILIARY RISER DIAGRAMS
EY603	AUXILIARY RISER DIAGRAMS
FA11C	FIRE ALARM PLAN - BUILDING 'C'
FA601	FIRE ALARM RISER DIAGRAM

Welch Architect Donald

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

Salt Lake County, Utah

January 04, 2017

revisions

PERMIT SET-December 28, 2016 **11** ADDENDUM #1-January 04, 2017 42 ADDENDUM #2-January 06, 2017 ADDENDUM #3-January 11, 2017 △ **△** ADDENDUM #4-January 17, 2017 ADDENDUM #5-January 19, 2017 ADDENDUM #7-March 31, 2017

drawn by: checked by:

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SCHEDULE

SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

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

CR

СМВ

SPL

SECURITY CABLE. SEE EQUIPMENT SCHEDULE FOR CABLE TYPE.

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

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

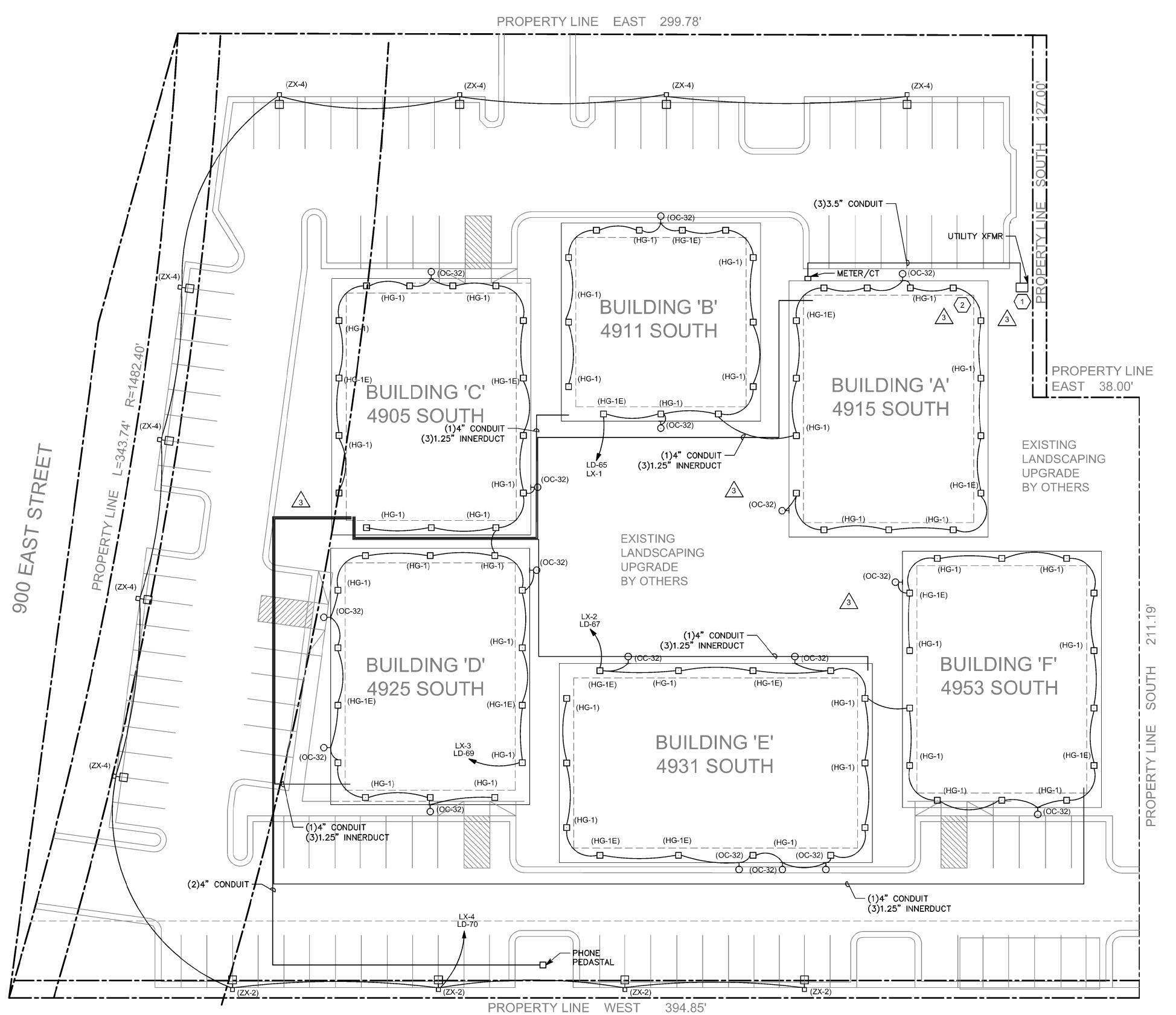
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION,

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...



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.

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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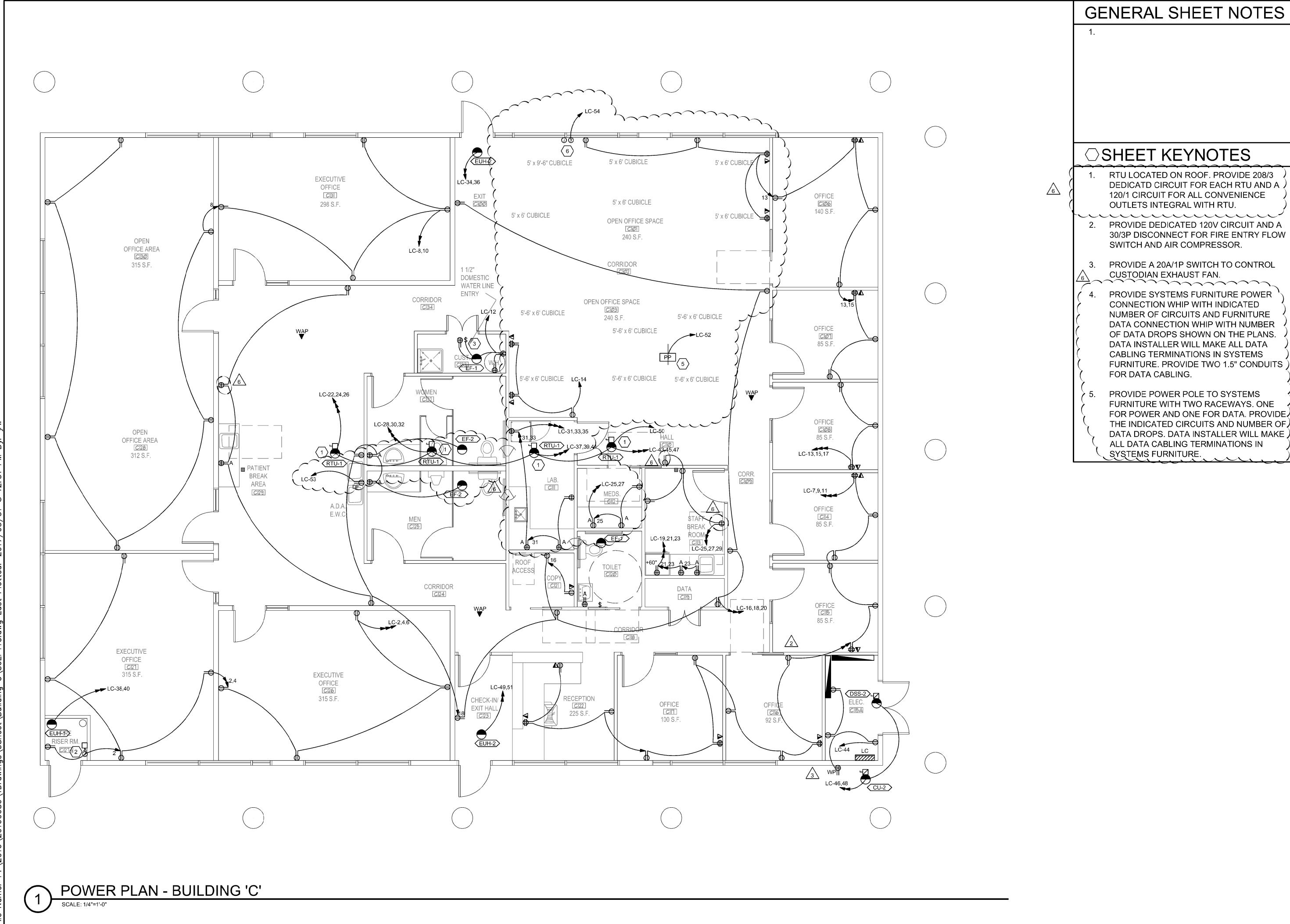
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ELECTRICAL SITE PLAN

ES1₀₁

1) ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"



PROVIDE DEDICATED 120V CIRCUIT AND A 30/3P DISCONNECT FOR FIRE ENTRY FLOW

FOR POWER AND ONE FOR DATA. PROVIDE THE INDICATED CIRCUITS AND NUMBER OF DATA DROPS. DATA INSTALLER WILL MAKE)

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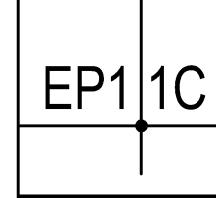
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data

POWER PLAN -BUILDING 'C'

sheet

DING



PRIVATE UNIT TYPICAL PRIVATE UNIT POWER PLAN

SCALE: 1/4"=1'-0" ___|SEMI-PRIVATE UNIT | 193 S.F. CLOSET

TYPICAL SEMI-PRIVATE

3 UNIT POWER PLAN

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

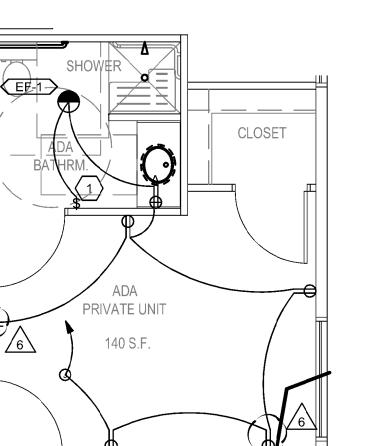
GENERAL SHEET NOTES

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 BATHROOM EXHAUST FAN.



TYPICAL ADA PRIVATE UNIT POWER PLAN

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

DOUBLE

CLOSET

TYPICAL ADA SEMI-PRIVATE

4 UNIT POWER PLAN

SCALE: 1/4"-41 O"

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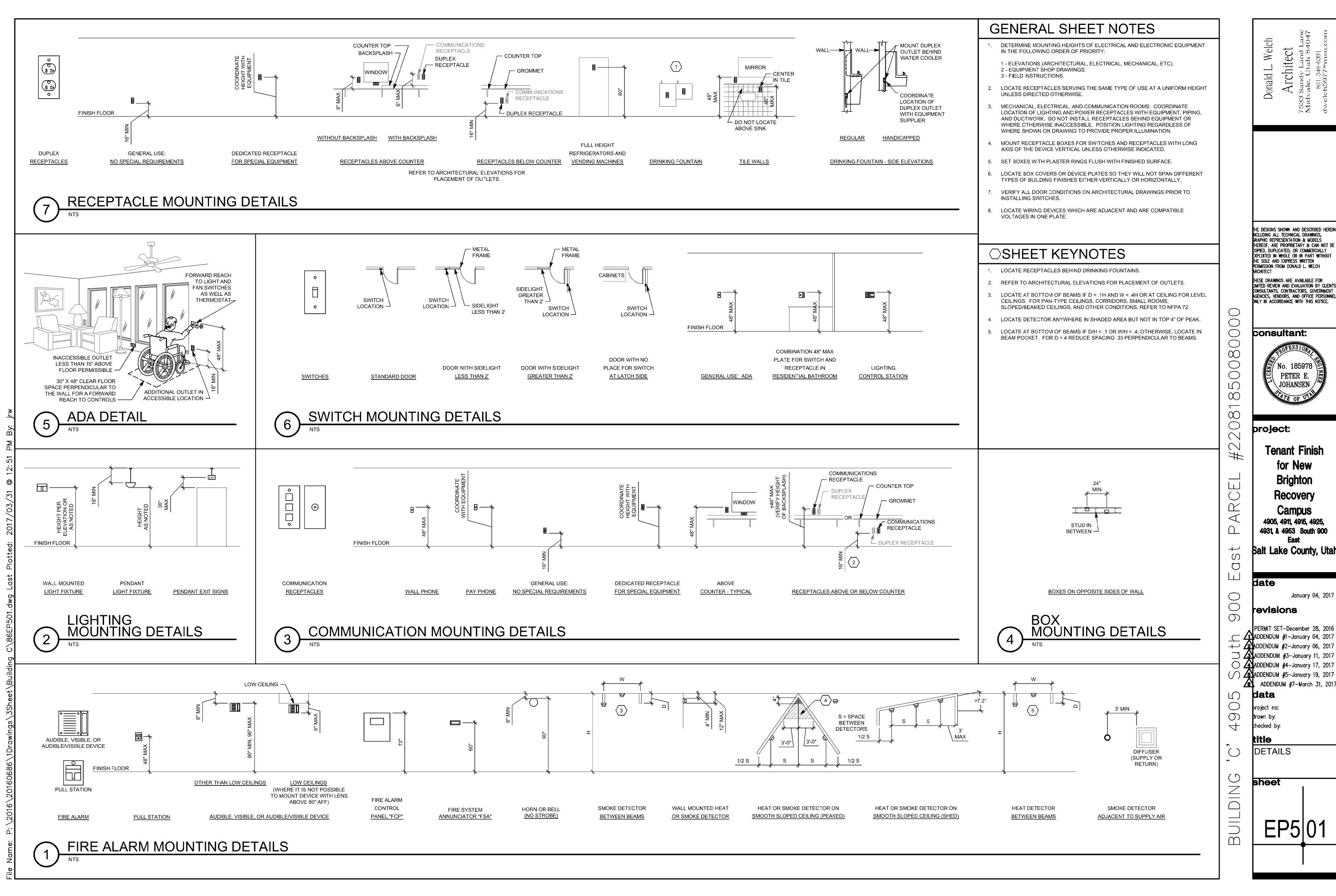
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BUILDING

TYPICAL POWER PLANS

sheet

EP4|01



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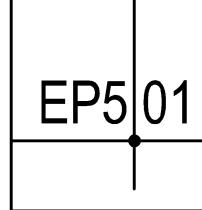
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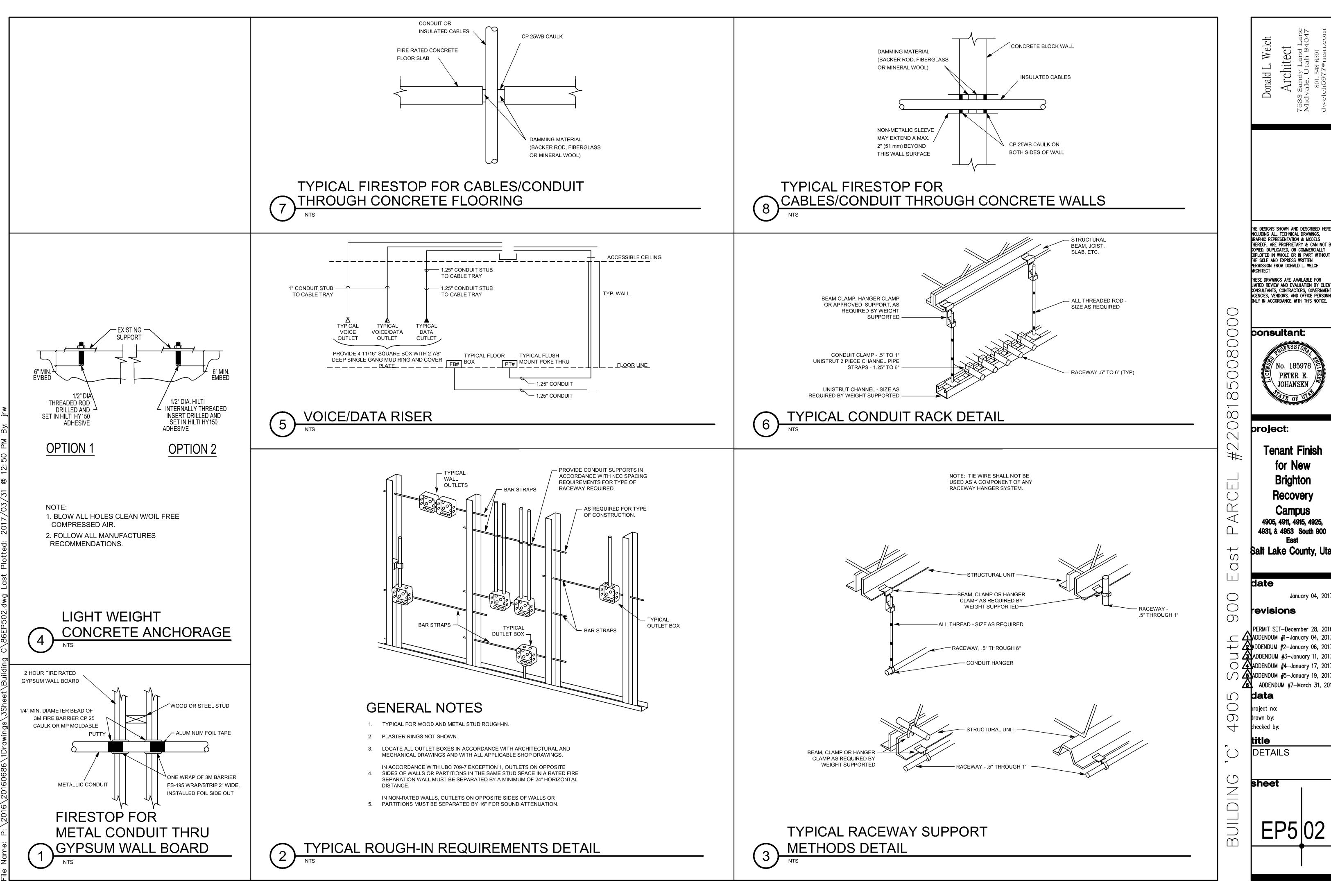


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Donald L. Welch Architect

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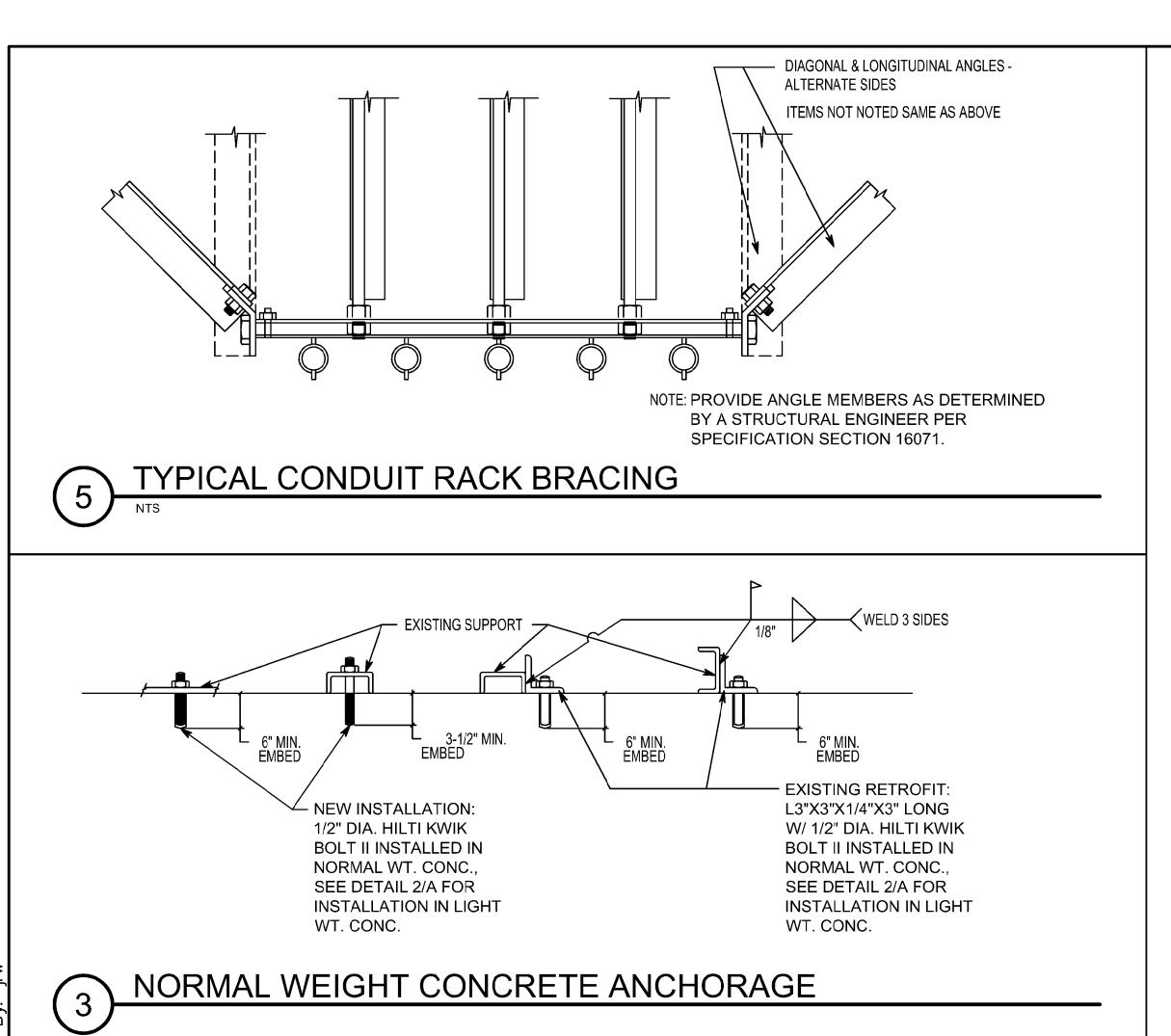
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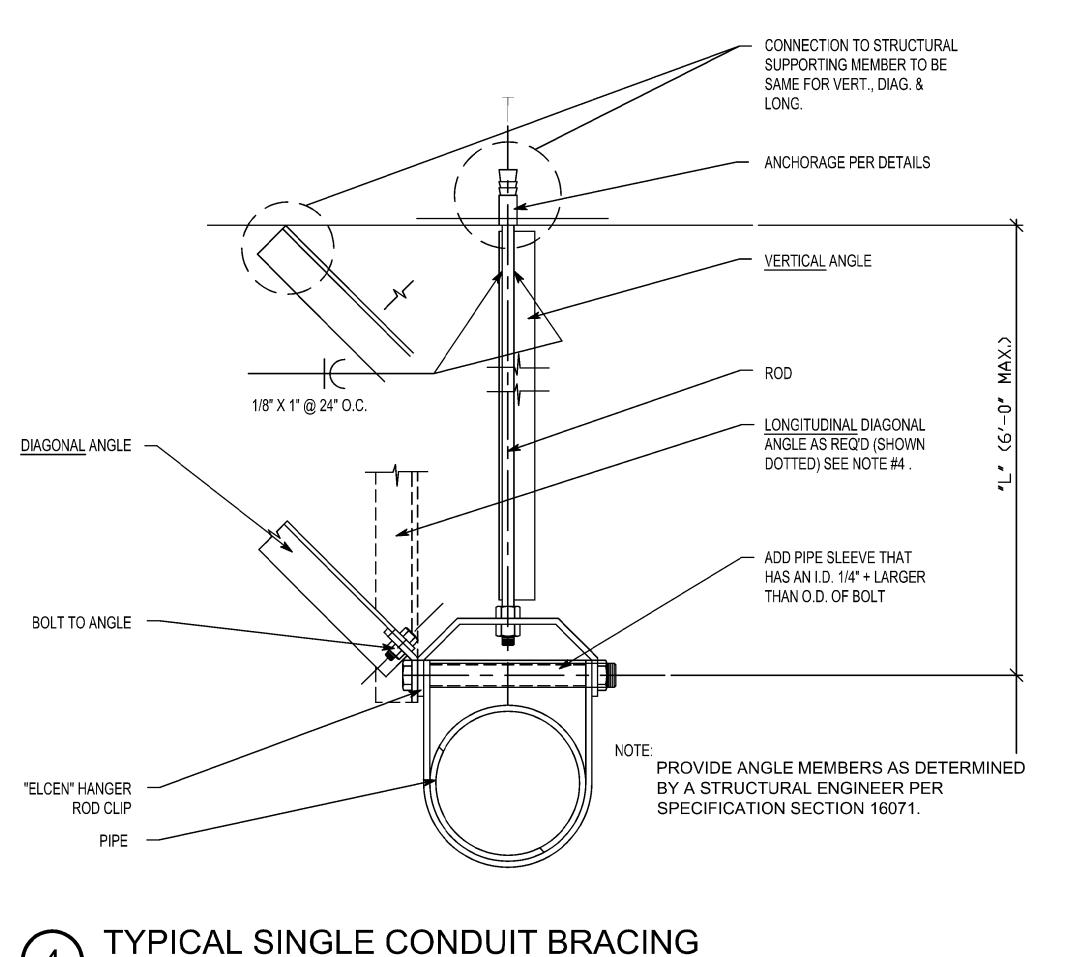
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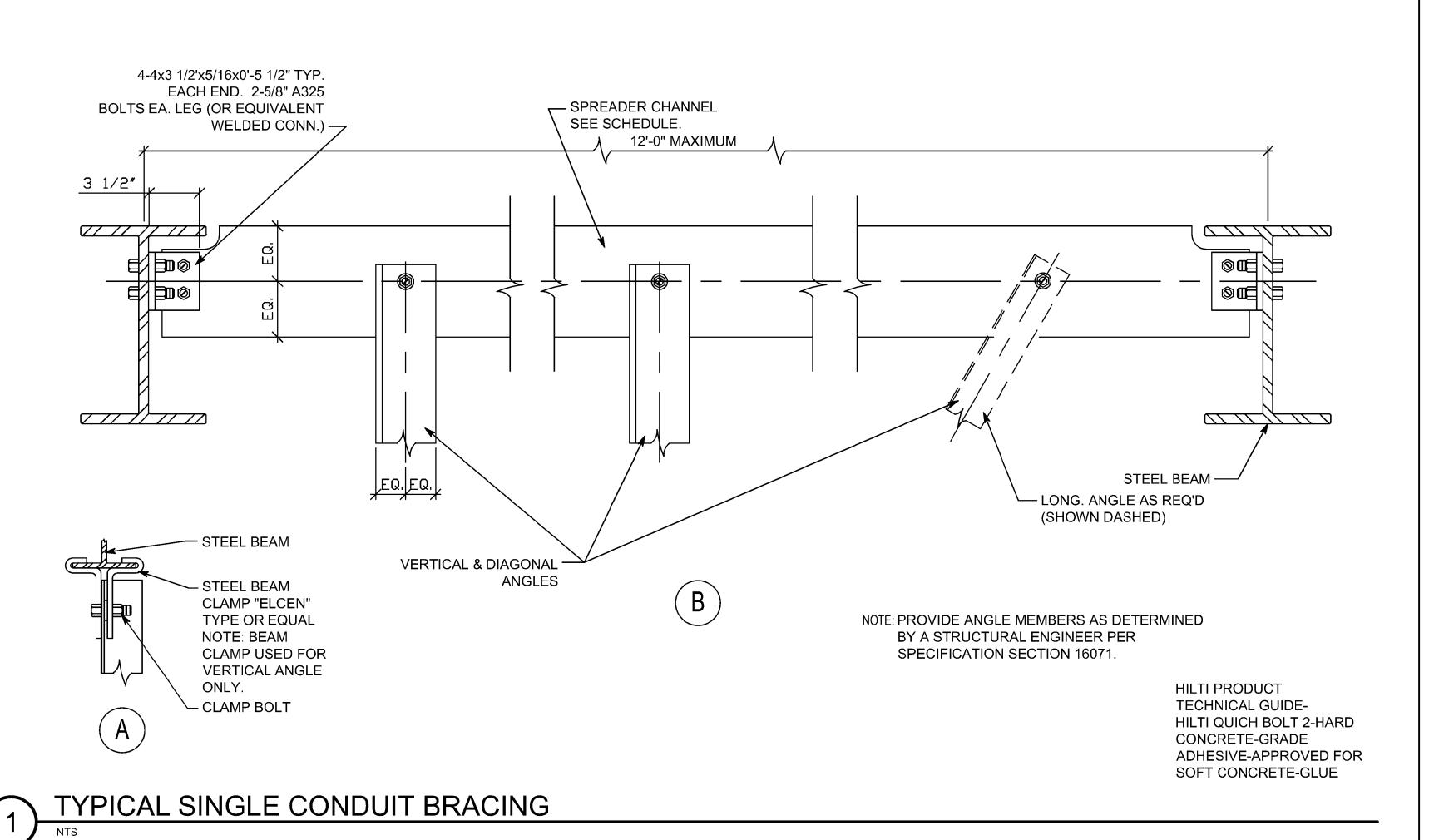
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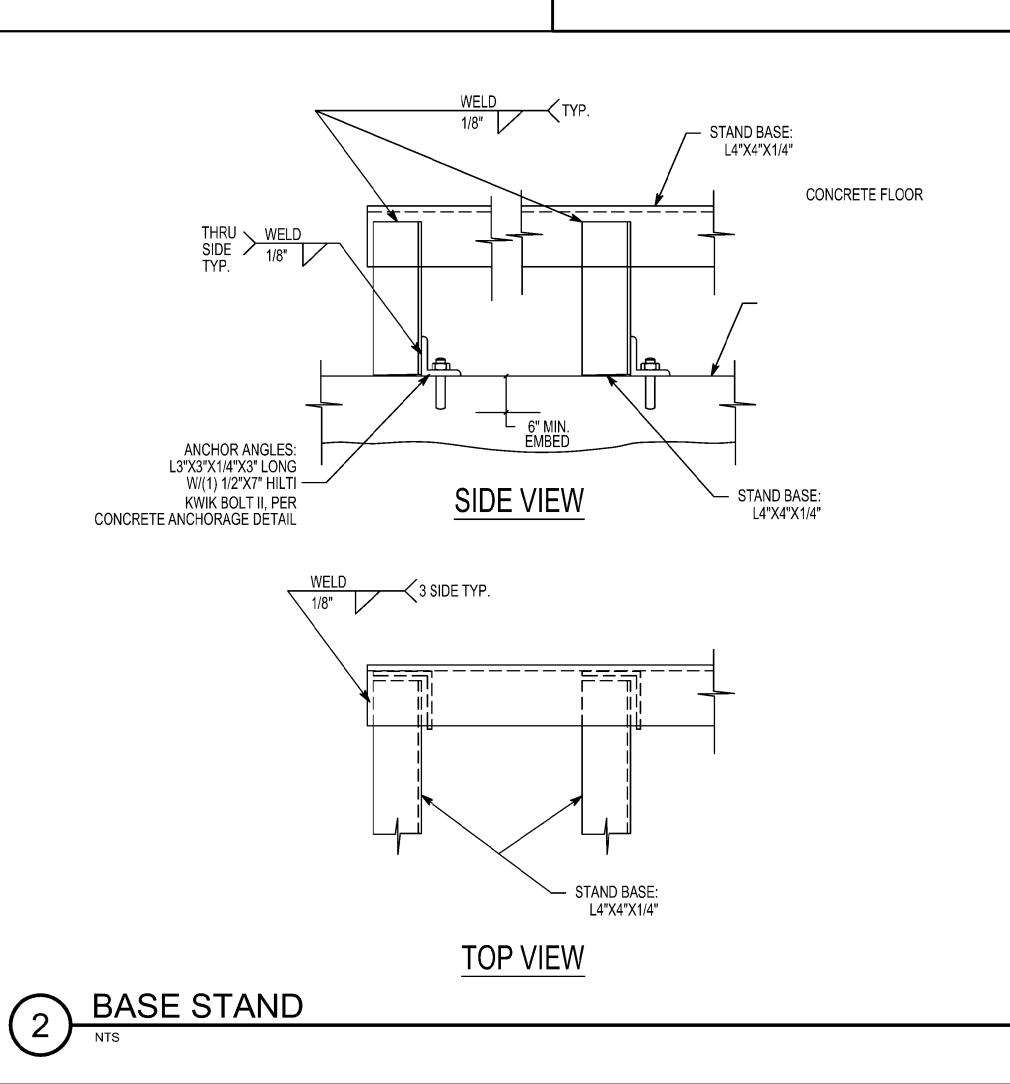




SEISMIC BRACING GENERAL NOTES

- 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.





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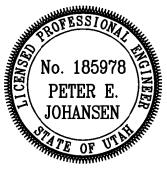
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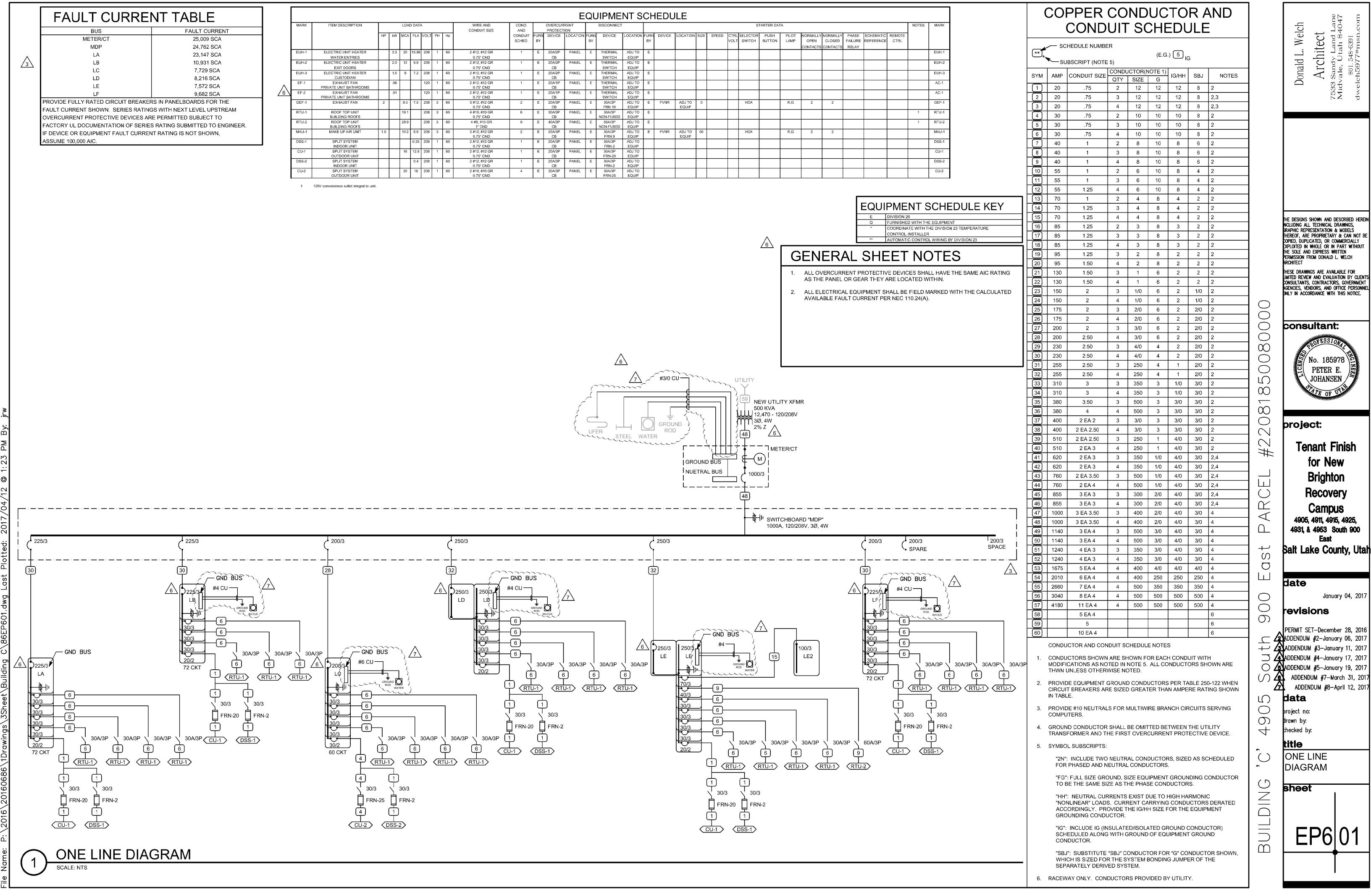
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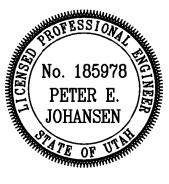
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DETAILS





PERMIT SET-December 28, 2016

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		SE/WIR				MAIN SIZE & TYPE:	LOCA	TION:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			AIC RATING:	NOTES:						
	SSORI	PH 4 V		TIFICA	TION (│1000 AMP MAIN LUGS GROUNDING BAR, INSULATED GROU		DING A				30,000 AIC							
CKT	OCP			DAD (k'		PANEL / EQUIPMENT	LCL	1	ASE LO	ΊΔΠ	LCL	PANEL / EQUIPM	ENT	10	AD (k\	/Δ\	OCP	,	CKT
NO		POLE	LTG		PWR	. TANGE / EQUI MENT	kVA	A	В	С	kVA	17/MEE/EQUITIV		LTG		PWR		POLE	NO
1	200	3	1.6	7.7	17.3	LA	27.0	<u> </u>			33.7	LD		2.9	10.9	19.2	200	3	2
	-		1.5	7.9	18.5	-	28.2	00.0	54.4		27.3	-		2.9	10.1	13.6	-	-	
_	_		0.0	4.8	20.8	_	25.6		•	58.7	33.9	_		3.0	9.6	20.5	_	-	_
3	200	3	1.3	5.9	16.9	LB	24.4	57.8			34.1	LE		1.7	9.8	22.2	200	3	4
-	-	_	1.6	6.2	14.6	-	22.8		60.3		38.3	-		1.5	10.2	26.2	-	-	-
-	-	-	0.0	6.2	20.6	-	26.8			61.0	34.5	-		1.0	7.9	25.3	-	-	-
5	200	3	1.5	9.2	10.9	LC	22.0	48.3			27.2	LF		1.8	6.2	18.7	200	3	6
-	-	-	1.2	6.6	13.4	-	21.5		48.4		27.6	-		1.6	6.5	19.1	-	-	-
-	-	-	1.4	6.8	11.7	-	20.3			46.3	26.4	-		0.0	7.5	18.9	-	-	-
7	200	3				SPARE	0.0	0.0			0.0	SPACE					-	3	8
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-	-	-				-	0.0			0.0	0.0	-					-	-	-
TOTA	LS:					CONNECTED kVA PER F	PHASE	166	163	166				CONN	ECTE	ATOT (L kVA	495	
						CONNECTED AMPS PER F	PHASE	1381	1360	1383		CONN	IECTED AVE	RAGE	AMPS	PER P	HASE	1375	
NEC I					ULATIO			OTUE	D I O 4	DC @4	000/ -	220 14/4		D	VEDO		OTAL	A/A -	436
				_	125% =			OTHE		_		328 kVA				FIED T			
				_	100% = 50% =		∠5%	% OF L	AKGE	ST MO	IUK =	0 kVA		AVERA	AGE AI	VIPS PE	K PHA	42F =	1212

VOI T	S/PHAS	SE/WIR	E:			PANEL SIZE & TYPE:	MAIN	SIZF 8	TYPE	:	\sim	LOCATION:	AIC R	ATING	: 1	NOTE	:S:	
	08 V. 3					22" W x 6" D, BOLT-ON		MP MA		-		200/Mon.	42,000			11012	.0.	
	SSORI			l DIRE	CTOR	Y, IDENTIFICATION, GROUNDING B.				UND B	AR		12,00	7.110				
CKT	OCP			AD (kV		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION	10	AD (k\	/A)	OCP		СКТ
NO		POLE	LTG	CO	PWR	22001111 11011	kVA	A	В	С	kVA	2200 11011	LTG	CO	PWR		POLE	-
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	-	-	26
27	50	2			2.4	RANGE KITCHEN A115	2.4		3.4		1.0	REFRIGERATOR A132		1.0		20	1	28
29	-	-			2.4	-	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	1	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			0.8	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
OTA	LS:					CONNECTED kVA PER	PHASE	27	28	26			CONN	ECTE	TOTA	L kVA	80	
						CONNECTED AMPS PER	PHASE	221	232	213		CONNECTED AV	VERAGE	AMPS	PER P	HASE	222	
EC	DIVERS	SIFIED	LOAD	CALCU	JLATIO	NS												
		LIGHTI	NG 3k\	/A @1:	25% =	4 kVA	ALL	OTHE	R LOAI	OS @1	00% =	57 kVA	DI	VERSI	FIED T	OTAL I	«VA =	77
	RECEF			_		10 kVA			ARGES	_		2 kVA	AVER/					215
		/AINDE		_		5 kVA		· · · -			-			•			-	

VOLT	S/PHA	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE &	TYPE	<u> </u>	<u> </u>	LOCATION:	AIC R	ATING	:	NOTE	S:	
120/2	08 V, 3	PH 4 V	VIRE			22" W x 6" D, BOLT-ON	225 A	МР МА	IN CB				22,00	O AIC				
ACCE	SSOR	IES:	PANE	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA	AR, INSI	JLATEI) GRO	UND B	AR, SU	BFEED LUGS	•					
CKT	OCF)	LO	AD (k√	/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	СО	PWR	AMP	POLE	NO
1	20	1	1.3			LIGHTING	1.6	2.6			1.3	DRYER LAUNDRY B125			1.3	30	2	2
3	20	1	1.3			LIGHTING	1.6		2.6		1.3	-			1.3	-	-	4
5	30	2			1.3	DRYER LAUNDRY B101	1.3			1.7	0.4	CO LAUNDRY B125		0.4		20	1	6
7	-	-			1.3	-	1.3	2.3			1.0	WASHER B125		1.0		20	1	8
9	20	1		1.4	0.2	ROOMS B104, B105	1.6		3.2		1.6	ROOMS B12, B123		1.4	0.2	20	1	10
11	20	1		1.0		WASHER LAUNDRY B101	1.0			2.3	1.3	WH/PUMP/FIRE COMP		1.3		20	1	12
13	20	1		8.0		CO ROOMS B101, B102	0.8	2.0			1.2	ROOM B119		1.1	0.1	20	1	14
15	20	1		0.2	0.1	CO & EF-1 CUST B106	0.3		1.5		1.2	ROOM B117		1.1	0.1	20	1	16
17	20	1		1.1	0.1	ROOM B108	1.2			2.2	1.0	REFRIGERATOR B129		1.0		20	1	18
19	20	1		1.1	0.1	ROOM B111	1.2	1.7			0.5	CO DINING B127		0.5		20	1	20
21	20	1		0.5		CO FAMILY RM B114	0.5		1.3		0.8	CO FAMILY/STOR. B128,B121		0.8		20	1	22
23	20	1		8.0		CO DINING RM B113	0.8			3.2	2.4	RANGE B129			2.4	50	2	24
25	20	1		1.0		REFRIGERATOR B115	1.0	3.4			2.4	-			2.4	-	-	26
27	50	2			2.4	RANGE B115	2.4		3.4		1.0	GARBAGE DISP.			1.0	20	1	28
29	-	-			2.4	-	2.4			3.4	1.0	DISHWASHER B129			1.0	20	1	30
31	20	1		0.2		CO KITCHEN B115	0.2	0.4			0.2	CO KITCHEN B129		0.2		20	1	32
33	20	1			1.0	DISHWASHER B115	1.0		2.9		1.9	RTU-1			1.9	30	3	34
35	20	1			1.0	GARBAGE DISP. B115	1.0			2.9	1.9	-			1.9	-	-	36
37	30	3			1.9	RTU-1	1.9	3.8			1.9	-			1.9	-	-	38
39	-	-			1.9	-	1.9		2.9		1.0	EUH-2			1.0	20	2	40
41	-	-			1.9	-	1.9			2.9	1.0	-			1.0	-	-	42
43	30	3			1.9	RTU-1	1.9	2.7			0.8	EUH-3			8.0	20	2	44
45	-	-			1.9	-	1.9		2.7		0.8	-			0.8	-	-	46
47	-	-			1.9	-	1.9			3.6	1.7	EUH-1			1.7	20	-	48
49	20	2			0.8	EUH-3	0.8	2.5			1.7	-			1.7	-	-	50
51	-	-			0.8	-	0.8		1.1		0.4	EGRESS LIGHTING	0.3			20	1	52
53	20	2			1.0	EUH-2	1.0			2.7	1.7	CU-1/DSS-1			1.7	20	2	54
55		-			1.0	-	1.0	2.7			1.7	<u>-</u>			1.7	-	-	56
57	20	1		0.4		KITCHEN ISLAND CO	0.4		8.0		0.4	KITCHEN ISLAND CO	1	0.4		20	1	58
59	20	1		0.6		RTU CO'S	0.6			1.6	1.0	SMOKE DETECTORS			1.0	20	1	60
61	20	1				SPARE	0.0	0.0			0.0	SPARE	1			20	1	62
63	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	64
65	20	1				SPARE	0.0			0.0	0.0	SPARE	1			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		24	22	26						L kVA		
						CONNECTED AMPS PER	PHASE	201	187	221		CONNECTED AV	ERAGE	AMPS	PER P	HASE	203	
NEC	DIVER		LOAD															
			ING 3k\	_		4 kVA		OTHE		_		52 kVA				OTAL k		71
			ES 10k\	~		10 kVA	25	% OF L	ARGES	ST MO	TOR =	2 kVA	AVER	AGE AN	/IPS PE	ER PHA	SE =	198
1	RE	MAINE)FR 8k\	√A @ 5	50% =	4 kVA												

NO 1 3 5 7 9 11	SSORI OCP AMP 20 20 20 20		LO.	DIRE		22" W x 6" D, BOLT-ON	200 A	МР МА	TYPE				10,00	0 AIC				
NO 1 3 5 7 9 11	OCP AMP 20 20 20		LO.		CTOR	Y, IDENTIFICATION, GROUNDING E	BAR, INSU	JLATEI	D GRO	UND B	AR, SU	BFEED LUGS	,					
1 3 5 7 9 11	20 20 20	POLE 1		AD (kV		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION	LC)AD (k\	/A)	OCP		СКТ
5 7 9 11 13	20 20	1	LTG I	cò		4	l _{kVA}	A	В	С	kVA		LTG	· · ·	PWR	AMP		
5 7 9 11 13	20		1.5			LIGHTING	1.9	2.3			0.8	CO FIRE RM/FIRE COMP		0.2	0.6	20	1	2
7 9 11 13	20	1	1.2			LIGHTING	1.5		2.0		0.8	GROUP ROOM C127		0.8		20	1	4
11 13	20	1	1.0			LIGHTING	1.3			1.8	0.8	GROUP ROOM C126		0.8		20	1	6
11 13		1		8.0		CO RECPTION C122	0.8	2.0			1.2	GROUP ROOM C130,128		1.2		20	1	8
13	20	1		1.6		CO OFFICES C117, C116	1.6		2.4		0.8	GROUP ROOM C131		0.8		20	1	10
	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	12
	20	1		8.0		CO CUBICLES	0.8	1.6			0.8	CO CUBICLES		0.8		20	1	14
15	20	1		0.8		CO OFFICE C106	0.8		1.8		1.0	COPIER COPY C121		1.0		20	1	16
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	18
19	20	1		1.0		REFRIGERATOR C113	1.0	2.4			1.4	CO CORR C118, 109, 102		1.4		20	1	20
21	20	1		0.2		CO BREAK ROOM C113	0.2		2.1		1.9	RTU-1			1.9	30	3	22
23	20	1		0.2		CO BREAK ROOM C113	0.2			2.1	1.9	-			1.9	-	_	24
25	20	1		1.0		CO MEDS C112	1.0	2.9			1.9	-			1.9	_	_	26
27	20	1		0.4		CO MEDS C112	0.4		2.3		1.9	RTU-1			1.9	30	3	28
29	20	1		8.0		CO BREAK ROOM C113	0.8			2.7	1.9	-			1.9	-	_	30
31	20	1		0.4		CO LAB C111	0.4	2.3			1.9	-			1.9	-	_	32
33	20	1		0.2		CO LAB C111	0.2		1.2		1.0	EUH-2			1.0	20	2	34
35	20	1		1.0		REFRIGERATOR C111	1.0			2.0	1.0	-			1.0	-	_	36
37	30	3			1.9	RTU-1	1.9	3.6			1.7	EUH-1			1.7	20	2	38
39	_	_			1.9	-	1.9		3.6		1.7	-			1.7	_	_	40
41	-	-			1.9	-	1.9			2.3	0.5	EGRESS LIGHTING	0.4			20	1	42
43	30	3			1.9	RTU-1	1.9	2.5			0.6	CO ELEC C115A		0.6		20	1	44
45	-	-			1.9	-	1.9		4.0		2.1	CU-2/DSS-2			2.1	30	2	46
47	-	-			1.9	-	1.9			4.0	2.1	-			2.1	-	-	48
49	20	2			1.0	EUH-2	1.0	1.6			0.6	RTU CO'S		0.6		20	1	50
51	-	-			1.0	-	1.0		2.4		1.4	CO CUBICLES		1.4		20	1	52
53	20	1				DRINKING FOUNTAIN	0.0			1.4	1.4	CO CUBICLES		1.4		20	1	54
55	20	1				SPARE	0.0	0.0			0.0	SPARE				20	1	56
57	20	1				SPARE	0.0		0.0		0.0	SPARE				20	1	58
59	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	60
OTA						CONNECTED kVA PER		21	22	21			CONN	ECTE	TOTA		64	
						CONNECTED AMPS PER				179	ARC	CONNECTED AV						
EC [IVERS	IFIED	LOAD (CALCU	LATIO		-					· · · · · · · · · · · · · · · · · ·	· - -					

Architect THE DESIGNS SHOWN AND DESCRIBED HEREIN NCLUDING ALL TECHNICAL DRAWINGS, RAPHIC 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 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. consultant:

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

January 04, 2017

revisions

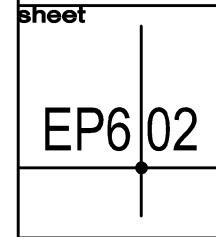
PERMIT SET—December 28, 2016
ADDENDUM #1—January 04, 2017
ADDENDUM #2—January 06, 2017
ADDENDUM #3—January 11, 2017
ADDENDUM #4—January 17, 2017
ADDENDUM #5—January 19, 2017
ADDENDUM #7—March 31, 2017

data

drawn by: checked by:

BUILDING

title PANEL SCHEDULES



						6	(P/	ŶÑ	ÊĹ	ĨĨĹ	D "}	<u></u>						
VOLT	S/PHAS	SE/WIF	RE:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE	:		LOCATION:		ATING	:	NOTE	S:	
		PH 4 V				22" W x 6" D, BOLT-ON		MP MA					10,000	O AIC				
	SSORI					Y, IDENTIFICATION, GROUNDING BA							1					
CKT	OCP			AD (k\		DESCRIPTION	LCL		ASE LO		LCL	DESCRIPTION)AD (k\		OCP		CKT
NO		POLE		CO	PWR		kVA	A	В	С	kVA		LTG	co	PWR		POLE	
1	20	1	1.4			LIGHTING	1.8	2.8			1.4	CO DINING D103		1.4		20	_1_	2
3	20	1	1.2			LIGHTING	1.5		2.4		1.2	CO COMMON AREA D112		1.2		20	1	4
5	20	1	0.6			LIGHTING	0.8			1.6	1.0	FB WORKOUT RM D113		1.0		20	1	6
7	20	1		0.9		CO RECEPTION D109	0.9	1.9			1.0	FB WORKOUT RM D113		1.0		20	1	8
9	20	1		0.7		WH/PUMP	0.7		1.7		1.0	FB WORKOUT RM D113		1.0		20	1	10
11	20	1		0.9	0.3	CO D108A, D108, D107, D106	1.2			2.2	1.0	CO WORKOUT RM D113		1.0		20	1	12
13	20	1		0.6		CO PNTRY/SERV. D104,105	0.6	1.6			1.0	CO WORKOUT RM D113		1.0		20	1	14
15	20	1		1.0		REFRIGERATOR D105	1.0		2.0		1.0	DRINKING FOUNTAIN		1.0		20	1	16
17	20	1		1.3		FREEZER D105	1.3			2.3	1.0	CO WORKOUT RM D113		1.0		20	1	18
19	20	1			1.5	KITCHEN HOOD	1.5	2.5			1.0	CO WORKOUT RM D113		1.0		20	1	20
21	30	2			1.7	SOFT SERVE MACHINE	1.7		2.3		0.6	CO WORKOUT RM D113		0.6		20	1	22
23	1	-			1.7	-	1.7			2.5	8.0	FIRE CO/FIRE COMP D114A		0.2	0.6	20	1	24
25	20	1		0.6		CO KITCHEN D101	0.6	1.4			8.0	CO OFFICE/STOR D115		0.8		20	1	26
27	20	1		1.0		CO KITCHEN D101	1.0		1.8		8.0	CO YOGA STUDIO D114		0.8		20	1	28
29	50	2			4.0	DISHWASHER	4.0			5.0	1.0	CO OFFICE D118		1.0		20	1	30
31	-	-			4.0	-	4.0	4.8			0.8	CO MUSIC ROOM D117		0.8		20	1	32
33	20	1		0.6		SANDWICH/SALAD FRIDGE.	0.6		1.4		0.8	CO ART ROOM D116		0.8		20	1	34
35	20	1		1.0		CO KITCHEN D101	1.0			1.4	0.4	CO COMPUTER LAB D119		0.4		20	1	36
37	20	1		1.8		ESPRESSO MACHINE	1.8	2.2			0.4	CO COMPUTER LAB D119		0.4		20	1	38
39	20	1		1.0		CO KITCHEN D101	1.0		1.4		0.4	CO COMPUTER LAB D119		0.4		20	1	40
41	20	3			0.5	GEF-1	0.5			2.4	1.9	RTU-1			1.9	30	3	42
43	-	-			0.5	-	0.5	2.4			1.9	-			1.9	-	_	44
45	-	-			0.5	-	0.5		2.4		1.9	-			1.9	-	_	46
47	20	3			0.4	MAU-1	0.4			2.3	1.9	RTU-1			1.9	30	3	48
49	_	_			0.4	-	0.4	2.3			1.9	-			1.9	_	_	50
51	-	-			0.4	-	0.4		2.3		1.9	-			1.9	-	_	52
53	30	3			1.9	RTU-1	1.9			2.9	1.0	EUH-2			1.0	20	2	54
55	-	-			1.9	-	1.9	2.9			1.0	-			1.0	-		56
57	_	-			1.9	<u>-</u>	1.9		3.8		1.9	RTU-1			1.9	30	3	58
59	20	1		1.8		ICE MAKER	1.8			3.7	1.9	-			1.9	-		60
61	20	1			1.5	ANSUL FIRE PANEL	1.5	3.4			1.9	-			1.9	_	_	62
63	20	1	0.2			EGRESS LIGHTING	0.3		1.9		1.7	EUH-1			1.7	20	2	64
65	20	1	1.5			BLDG A & B CANOPY LTG	1.9			3.2	1.7	-			1.7	-		66
67	20	1	1.5			BLDG E & F CANOPY LTG	1.9	2.5			1.0	EUH-2			1.0	20	2	68
69	20	1	1.5			BLDG C & D CANOPY LTG	1.9		2.5		1.0	-			1.0		<u> </u>	70
71	20	1	0.9			PARKING LOT LTG	1.1			2.6	1.7	CU-1/DSS-1			1.7	20	2	72
73	20	1	0.0	0.6		RTU CO'S	0.6	2.3		2.0	1.7	-			1.7	_		74
75	20	2		0.0	0.8	EUH-3	0.8	2.0	1.8		1.0	EUH-2			1.0	20	1	76
77					0.8	-	0.8		1.0	1.8	1.0	_			1.0	20	$\frac{1}{1}$	78
79	20	1			0.0	SPARE	0.0	0.0		1.0	0.0	SPARE			1.0	20	$\overline{}$	80
81	20	1				SPARE	0.0	0.0	0.0		0.0	SPARE				20	1	82
83	20	1				SPARE	0.0		0.0	0.0	0.0	SPARE				20	-	84
TOTA		ı				CONNECTED kVA PER F		1 33	L 28	34	0.0	OI AILE	CONN	L ECTEI	L		l 95	
	LS.					CONNECTED AMPS PER F			231	282		CONNECTED AV					263	
NEC [SIFIED		CAI CI	ΔΤΙΟ		HAGE	210	ZU I	۷۵۷		CONNECTED AV		AIVIT 3	· LIVE	IIAGE	200	
		LIGHTI				11 kVA	ΔΙΙ	OTHE	B I O A I	<u>നട കൂ</u>	10% –	55 kVA	וח	\/EDQI	EIED T	OTAL k	Δ\/A -	86
		PTACLE		_		10 kVA		% OF L		_		0 kVA	AVERA					240
		/AINDE		_		10 kVA 10 kVA	20	/0 UF L	ANGE	טועו וכ	I OR -	O KVA	AVERA	NGE AI	VIF 3 P	-17 5 11/2	.JE -	∠40
	INEIN	ייעוואטנ	_IX	vr W	JU /0 —	IO KVA												

							\sim	~~~	~~~	<u> </u>	<i></i>							
						6	PA	$^{\prime}$ NE	ΞL	"LE	Ξ2∜							
VOLT:	S/PHA	SE/WIF	 RE:			PANEL SIZE & TYPE:	$\overline{\mathcal{L}}$	\sim	TYPE			LOCATION:	AIC R	ATING	: :	NOTE	S:	-
120/20	08 V, 3	PH 4 V	VIRE			22" W x 6" D, BOLT-ON	100 A	МР МА	IN LUG	SS			10,000	O AIC				
	SSORI			L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA					AR, SU	JBFEED LUGS	,					
СКТ	OCP		LC	AD (k\	/A)	DESCRIPTION	LCL	PH/	ASE LC)AD	LCL	DESCRIPTION	LC	AD (k\	/A)	OCP		CKT
NO	AMP	POLE	LTG	CO	PWR		kVA	Α	В	С	kVA		LTG	CO	PWR	AMP	POLE	NO
1	20	2			0.8	EUH-3	0.8	1.0			0.2	CO SERVING E140		0.2		20	1	2
3	-	-			0.8	-	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			0.8	EUH-3	0.8		1.6		0.8	CO A/V E139		0.8		20	1	10
11	-	-			0.8	-	0.8			0.8	0.0	SPARE				20	1	12
13	20	2			0.8	EUH-3	0.8	0.8			0.0	SPARE				20	1	14
15	ı	-			0.8	-	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 I	PHASE	6	5	6			CONN	ECTE	ATOT C	L kVA	17	
						CONNECTED AMPS PER I	PHASE	53	45	46		CONNECTED AV	ERAGE	AMPS	PER P	HASE	48	
NEC [DIVERS	SIFIED	LOAD	CALC	JLATIC	NS												
		LIGHTI	ING 0k	VA @1	25% =	0 kVA	ALL	OTHE	R LOAI	OS @1	00% =	13 kVA	DI	VERSI	IFIED T	OTAL I	(VA =	17
	RECE	PTACL	_ES 5k	VA @1	00% =	5 kVA	259	% OF L	ARGES	ST MO	TOR =	0 kVA	AVERA	AGE AI	MPS P	ER PHA	ASE =	48
ı	RE	MAINE	ER 0k	VA @	50% =	0 kVA												

				LIGHTING	CONTROL PANEL	SCHEDULE				
LX										
			AUTOM	ATI¢ CONTROL			OVERRIDE CONT	ROL O	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							
•									•	

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/WIF	 RE:			PANEL SIZE & TYPE:	MAIN	SIZE 8	TYPE:	<u> </u>	<u> </u>	LOCATION:	AIC R	ATING		NOTE	.S:	
	08 V, 3					22" W x 6" D, BOLT-ON		MP MA					10,000					
ACCE	SSORI	ES:	PANEI	L DIRE	CTOR	Y, IDENTIFICATION, GROUNDING BA	R, INSI	JLATEI	O GRO	UND B	AR, SU	BFEED LUGS	,					
CKT	ОСР			AD (kV		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION	LC	AD (k\	/A)	ОСР		Ск
NO	AMP	POLE		cò			kVA	A	В	С	kVA		LTG	_ •	 	AMP		_
1	20	1	1.2			LIGHTING	1.5	2.2			1.0	WASHER LAUNDRY E127		1.0		20	1	2
3	20	1	1.5			LIGHTING	1.9		2.8		1.3	DRYER LAUNDRY E127			1.3	30	2	4
5	20	1	1.0			LIGHTING	1.3			2.3	1.3	-			1.3			6
7	30	2			1.3	DRYER LAUNDRY E101	1.3	2.0			0.7	CO E134, E127		0.6	0.1	20	1	8
9	_				1.3	-	1.3	2.0	2.9		1.6	ROOMS E125,E126		1.4	0.2	20	1	1
11	20	1		1.4	0.2	ROOMS E103, E104	1.6			2.8	1.2	ROOM E119		1.1	0.1	20	1	1
13	20	1		1.0	0.2	WASHER LAUNDRY E101	1.0	2.2		2.0	1.2	ROOM E122		1.1	0.1	20	1	1
15	20	1		0.6		CO ROOMS E101,E102	0.6	2.2	0.9		0.3	CO/EF-1 CUSTODIAN E124		0.2	0.1	20	1	1
17	20	1		0.0	0.8	WH/PUMP/CO STORAGE	1.0		0.9	2.2	1.2	ROOM E118		1.1	0.1	20	<u> </u>	1
19	20	1		1.1	0.0	ROOM E107	1.2	2.1		۷.۷	0.9	CO FAMILY ROOM E131		0.9	0.1	20	 	2
21	20	1		1.1	0.1	ROOM E107	1.2	2.1	1.8		0.9	CO PAMILY ROOM E131		0.9		20	1	2
	20	1			0.1	ROOM E110 ROOM E111	1.2		1.0	2.2	-			1.0	 	20	1	2
23	 	1		1.1	U. I		+	1.2		2.2	1.0 0.2	REFRIGERATOR E132		0.2	 	20	1	_
25	20	1				CO DINING E113	1.0	1.2	2.0		-	CO KITCHEN E132		0.2		_		2
27	20	1		0.6		CO FAMILY E114	0.6		3.0	0.4	2.4	RANGE E132			2.4	50	2	2
29	20	1		1.0	0.4	REFRIGERATOR E115	1.0	2.4		3.4	2.4	-			2.4	-	-	3
31	50	2			2.4	RANGE E115	2.4	3.4			1.0	DISHWASHER E132			1.0	20	1	3
33	-	-			2.4	<u>-</u>	2.4		3.4		1.0	GARBAGE DISP E132			1.0	20		3
35	20	1			1.0	GARBAGE DISPOSAL	1.0			2.9	1.9	RTU-1			1.9	30	3	3
37	20	1			1.0	DISWASHER E115	1.0	2.9			1.9	-			1.9	-		3
39	20	1		0.2		CO KITCHEN E115	0.2		2.1		1.9	-			1.9			4
41	30	3			1.9	RTU-1	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	-	-			1.9	-	1.9		3.8		1.9	-			1.9			4
47	30	3			1.9	RTU-1	1.9			3.8	1.9	RTU-2			1.9	40	3	4
49	-	-			1.9	ı	1.9	3.8			1.9	-			1.9	_	-	5
51	-	-			1.9	•	1.9		3.8		1.9	-			1.9	_	-	5
53	20	2			0.8	EUH-3	0.8			1.8	1.0	EUH-2			1.0	20	2	5
55	-	-			0.8	-	0.8	1.8			1.0	-			1.0	-	-	5
57	20	2			1.0	EUH-2	1.0		1.8		0.8	EUH-3			0.8	20	2	5
59	-	-			1.0	-	1.0			1.8	0.8	-			0.8	-	-	6
61	20	1	0.5			EGRESS LIGHTS	0.6	0.9			0.4	KITCHEN ISLAND CO		0.4		20	1	6
63	20	2			1.7	CU-1/DSS-1	1.7		2.7		1.0	SMOKE DETECTORS			1.0	20	1	6
65	<u> </u>	_			1.7	<u>-</u>	1.7			1.7	0.0	SPARE				20	1	6
67	20	1		1.0		RTU CO'S	1.0	1.0			0.0	SPARE				20	1	6
69	20	1		0.4		KITCHEN ISLAND CO	0.4	-	0.4		0.0	SPARE				20	1	7
71	20	1				SPARE	0.0		2.1	0.0	0.0	SPARE				20	1	7
73	20	1				SPARE	0.0	0.0		0.0	0.0	SPARE			\vdash	20	1	7
75	20	1				SPARE	1.7	3.0	0.0		0.0	SPARE				20	1	7
77	20	1				SPARE	1.7		0.0	0.0	0.0	SPARE				20	<u> </u>	\ \frac{7}{7}
79	20	1				SPARE	0.0	6.4		0.0	6.4	LE2		1.5	4.9	70	3	8
81	20	1				SPARE	0.0	0.4	8.5		8.5	-		5.1	3.4	- 10		8
83	20	1				SPARE	0.0		0.0	5.5	5.5			1	4.5	\vdash		8
	l	ı						34	20	34	ა.ა	-	CONN				106	
TOTA	rr9:					CONNECTED AMPS DER I			38			CONNECTED A				AL kVA		
	>\\ /===		1015	241.611	u a T : C	CONNECTED AMPS PER F	MASE	281	316	285		CONNECTED AV	/ERAGE	AMPS	PER P	HASE	294	
NEC			LOAD					~=::=	D 1 2 : -		0001	74			.e.ee -			
			NG 4k\	_		5 kVA		OTHE		_		74 kVA				OTAL K		9
			ES 10k\			10 kVA	25	% OF L	ARGES	ST MO	TOR =	0 kVA	AVERA	AGE AI	MPS PI	ER PHA	SE =	2
	REN	1AINDE	R 18k\	/A @ 5	50% =	9 kVA												

120/2	S/PHA9	PH 4 V	VIRE			PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON	225 A	SIZE 8	IN CB			LOCATION: 6	AIC R	ATING 0 AIC	:	NOTE	:S:	
	SSORI					Y, IDENTIFICATION, GROUNDING B							1					
CKT	OCP			AD (kV/		DESCRIPTION	LCL		ASE LC		LCL	DESCRIPTION		AD (k\		OCP		Ck
NO	_	POLE		CO I	WR		kVA	A	В	С	kVA		LTG	CO			POLE	N
1	20	1	1.5			LIGHTING	1.9	2.8			1.3	DRYER LAUNDRY F127			1.3	30	2	
3	20	1	1.6			LIGHTING	2.0		2.9		1.3	-			1.3	-	-	4
5	30	2			1.3	DRYER LAUNDRY F101	1.3			2.9	1.6	ROOMS F125,F126		1.4	0.2	20	1	- 6
7	-	-			1.3	-	1.3	2.3			1.0	WASHER LAUNDRY F127		1.0		20	1	8
9	20	1			0.2	ROOMS F103,F104	1.6		2.0		0.4	CO LAUNDRY F127		0.4		20	1	10
11	20	1		1.0		WASHER LAUNDRY F101	1.0			2.2	1.2	ROOM F119		1.1	0.1	20	1	12
13	20	1		0.6		CO ROOMS F101,F102	0.6	1.8			1.2	ROOM F122		1.1	0.1	20	1	14
15	20	1			0.1	ROOM F110	1.2		1.5		0.3	CO/EF-1 CUST. F124		0.2	0.1	20	1	10
17	20	1			0.1	ROOM F107	1.2			2.1	0.9	CO DINING F130		0.9		20	1	18
19	20	1		0.6	0.6	WH/PUMP/FIRE COMP.	1.2	1.8			0.6	CO FAMILY F131		0.6		20	1	2
21	20	1		1.1	0.1	ROOM F111	1.2		2.4		1.2	ROOM F118		1.1	0.1	20	1	2:
23	20	1		0.6		CO DINING F113	0.6			1.6	1.0	REFRIGERATOR F132		1.0		20	1	2
25	20	1		0.9		CO FAMILY F114	0.9	3.3			2.4	RANGE F132			2.4	50	2	20
27	20	1		1.0		REFRIGERATOR F115	1.0		3.4		2.4	-			2.4	-	-	2
29	50	2			2.4	RANGE F115	2.4			3.4	1.0	GARBAGE DISP. F132			1.0	20	1	30
31	-	-			2.4	-	2.4	3.4			1.0	DISHWASHER F132			1.0	20	1	32
33	20	1			1.0	GARBAGE DISP. F115	1.0		1.2		0.2	KITCHEN CO F132		0.2		20	1	34
35	20	1			1.0	DISHWASHER F115	1.0			2.9	1.9	RTU-1			1.9	30	3	36
37	20	1		0.2		CO KITCHEN F115	0.2	2.1			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			2.9	1.0	EUH-2			1.0	20	2	48
49	-	-			1.9	-	1.9	2.9			1.0	-			1.0	-	-	50
51	20	2			1.7	EUH-1	1.7		2.5		0.8	EUH-3			0.8	20	2	52
53	-	-			1.7	-	1.7			2.5	0.8	-			0.8	-	-	54
55	20	2			1.0	EUH-2	1.0	1.3			0.4	EGRESS LIGHTS	0.3			20	1	56
57	-	-			1.0	-	1.0		2.7		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	-	-	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	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	7
71	20	1				SPARE	0.0			0.0	0.0	SPARE				20	1	7:
TOTA						CONNECTED KVA PER		27	27	26	· · ·		CONN	ECTE	TOTA		80	
						CONNECTED AMPS PER				220		CONNECTED AVI						

25% OF LARGEST MOTOR =

0 kVA

RECEPTACLES 10kVA @100% =

REMAINDER 10kVA @ 50% =

10 kVA

5 kVA

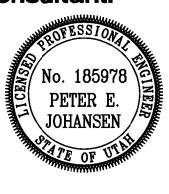
Architect

Donald L. Welch

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consultant:



project:

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

Salt Lake County, Utah

January 04, 2017

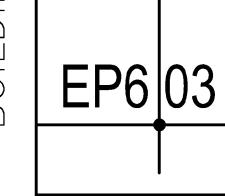
PERMIT SET-December 28, 2016 ADDENDUM #1-January 04, 2017
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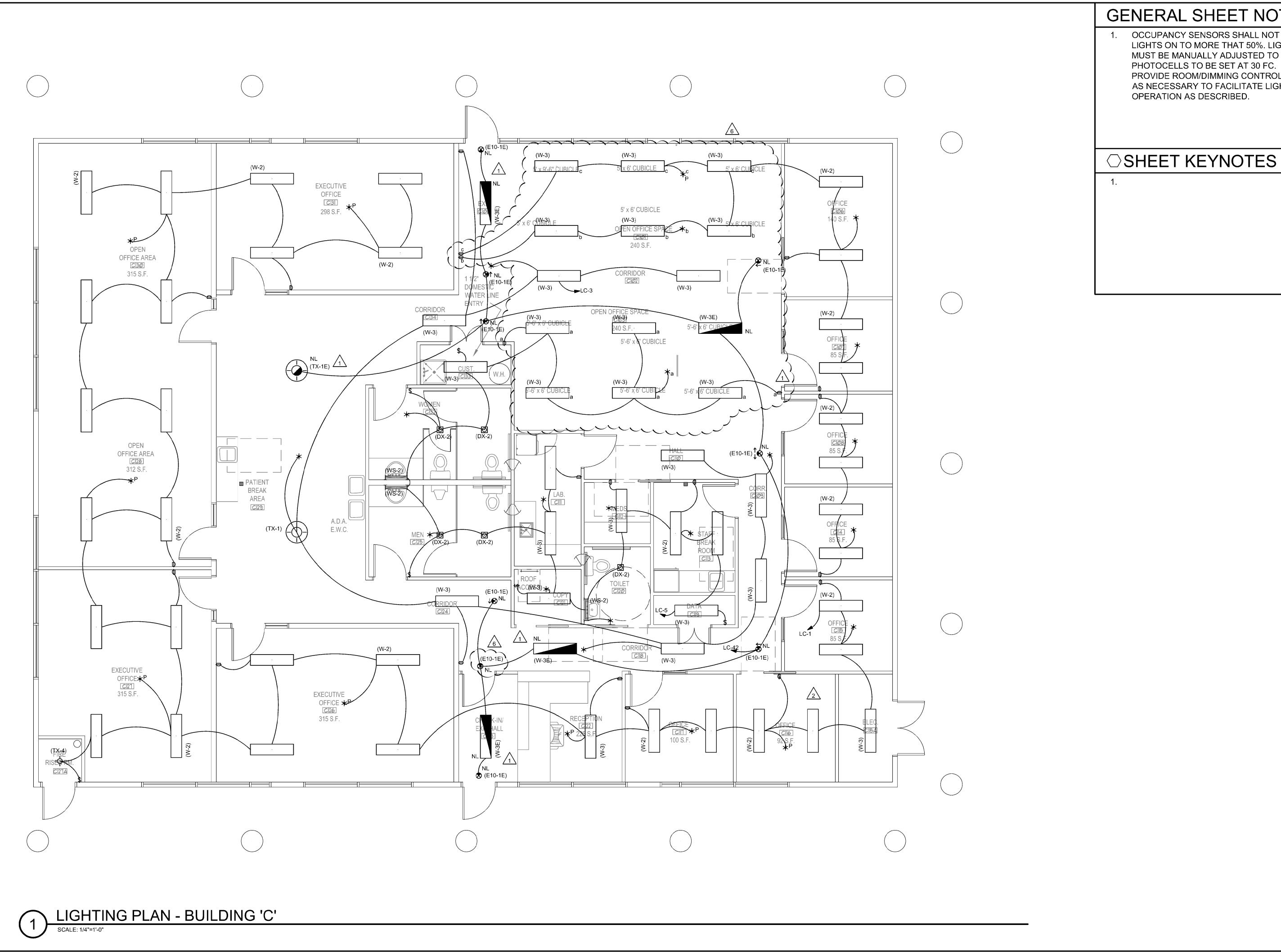
PANEL SCHEDULES

sheet

AVERAGE AMPS PER PHASE = 211



208 #2 ARCEL revisions \bigcirc 4



GENERAL SHEET NOTES

OCCUPANCY SENSORS SHALL NOT TURN LIGHTS ON TO MORE THAT 50%. LIGHTS MUST BE MANUALLY ADJUSTED TO 100%. PHOTOCELLS TO BE SET AT 30 FC. PROVIDE ROOM/DIMMING CONTROLLERS AS NECESSARY TO FACILITATE LIGHTING

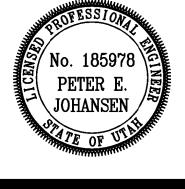
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Donald L. Welch

Architect Sandy Land L vale, Utah 840 801. 548-6391 Ich5977@msn.c

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

Salt Lake County, Utah

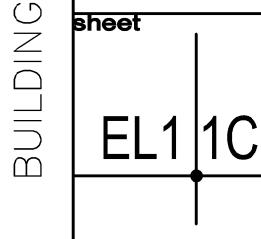
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LIGHTING PLAN -BUILDING 'C'



LIGHTING FIXTURE SCHEDULE

BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.

3500k

6" SHOWER LIGHT

Surface Mounted Drum

24" Diameter

Bedroom Light

Surface Mounted

Closet Light

PENDANT

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)

			FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR						
	SYMBOL	MARK	LENS/LOUVER/REFLECTOR/OTHER	LAMP	WATTS	VOLTS	MANUFACTURER	CATALOG NUMBER	NOTES
		DX	LED DOWNLIGHT; THERMALLY PROTECT	ED HOUSING	: TO ACCO	MMODATE M	IULTIPLE TRIMS AND	REFLECTOR ASSEMBLIES	
			FOR LAMPS AS LISTED BELOW; ELECTRO	NIC BALLAS	rs; Low iri	DESCENT R	EFLECTOR FINISH (E	VEN IF NOT SHOWN IN CATALOG #);	
6	~~~~	~~~~	SELF. FLANGING JRIM-UNLESS NOTED.	~~~~	· · · · · · · · · · · · · · · · · · ·	~~~~	******	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~~~~~
\		DX-1	RECESSED DOWNLIGHT; VERTICAL,	1500 LU	2 7 W	120/277V	PEACHTREE	6BLRD-IC-18-35K-80-SH-TRW-120	}
λ			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	3
8			6")
ξ.			3500 K						5
7			DIMMALE 0-10V						3
{									į
7)
{)
Ç		DX-2	RECESSED DOWNLIGHT; VERTICAL,	2000 LI	54W	120/277V	PEACHTREE	6BLRD-IC-20-35K-80-SH-RCA-120	3
- {-			FULL ON AT 0 VOLTS CONTROL INPUT	3500k				OR EQUIVALENT	\
Ì			6"						3
}			3500K, 90 CRI)
Ç			2000 LUMENS						3
~			DIMMABLE 0-10V						₹
Ç			DAMP LOCATION)
{		DX-4	RECESSED DOWNLIGHT; LED	1250 L	27W	120/277V	PEACHTREE	6BLRD-IC-13-35K-80-SH-RCA-WL-120)

EATON

SLD612-80-35-WH WITH H7ICAT HOUSING

OR EQUIVALENT

122-24-L5-UNV-SN

FM-15-W-R-30-R

FIERO-60 1200-3500K-PC-SN

SIP11783-2F21-120-F-AC1

AIC11865-L46.6WDML-PT04-120-277V-3500K-FB01

	TO PROVIDE 90 MINUTES OF EMERGENCY BE 1100 LUMENS OR HIGHER;UNIVERSAL TEST SWITCH AND AC "ON" INDICATOR; 10	TRANSFOR	RMER FOR 12	20 OR 277 V	DLTS; LOW VOLTAGE	PROTECTION, COMBINATION
	NO DISASSEMBLY FOR TESTING.					
E	EMERGENCY BATTERY PACK.		3W	120/277V	DUAL-LITE	UFO 6WI
	self testing ballasts				BODINE	REDITEST
					LITHONIA	PS1400QD SD
					EMERGI LITE	FPDL/U
					EVENLINT	BAL1400
E10	EXIT SIGN: METAL HOUSING; CEILING MO	UNT, SEE C	RAWINGS; A	RROWS PER	R PLANS; LED LAMPS	; EDGE LIGHTED CLEAR
	LENS; GREEN LETTERS ON CLEAR BACKS	ROUND. M	IUST MEET N	FPA ILLUMIN	NATION STANDARDS.	UNITS SHOWN ARE CEILING
	MOUNT MODELS. CONTRACTOR TO PROV	IDE MATCH	HING LOW LE	VEL WALL N	OUNTED UNITS WHE	RE REQUIRED.
E10-1E	SINGLE FACE:	LED	2W	120/277V	DUAL-LITE	LECSGWA
	WITH EMERGENCY BATTERY PACK				MCPHILBEN	45VL-1-GC-XX
					EELP	EDG 1 GC W EM
					LITHONIA	LRP W 1 GC XX 120/277
					EVENLITE	SOV-AC-G-1M WH XX UC
					ISOLITE	EDGL-S-S-G-BK (BLACK HOUSING)
					CHLORIDE	STDLX-X-1-GC-X
					LIGHTOLIER	LEAC1GCX
E10-2E	DUAL FACE:	LED	2W	120/277V	DUAL-LITE	LECDGWA
	WITH EMERGENCY BATTERY PACK				MCPHILBEN	45VL-2-GM-XX
					EELP	EDG 2 GC W EM
					LITHONIA	LRP W 2 GMR XX 120/277
					EVENLITE	SOV AC G 2M WH XX UC
					ISOLITE	EDGL-D-S-G-BK (BLACK HOUSING)
					CHLORIDE	STDLX-X-2-GC-X
					LIGHTOLIER	LEAC2GC7
HG	EXTERIOR CANOPY FIXTURES					
HG-1	RECESSED SQUARE LED CANOPY LIGHT,		50W	120/277V	MCGRAW EDISON	LRC-B16-1-LED-E1-WST
	BRONZE FINISH, WIDE DISTRIBUTION	3000K	3800 LU			
OC OC	WALL MOUNTED TRAPEZOIDAL WALL PAC	K WETLO	CATION			
	VIVLE MOON ED TIVIL ELOIDAE TAXEET AG	, , , , , L	0,111011			
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			
TX	SPECIAL FIXTURES AS INDICATED. MEET	ALL REQUI	REMENTS OF	SPECIFICA	TIONS AND FIXTURE	SCHEDULE. VISUAL AND
	FINISH APPROVAL REQUIRED.					
		LED	100W	120/277V	SHAPER	122-36-L7-UNV-SN
TX-1	Surface Mounted Drum	LED	10000	120/2/17	OTIVAL ETC	122 00 21 0111 011

120/277V SHAPER

120/277V BETACALCO

120/277v METALUX

21W 120/277V SPI

3500K

LED

LED

LED 3500K

3000K

3500K

W	LOW PROFILE WRAPAROUND: SURFACE MOUNTED SUITABLE FOR MOUNTING ON LOW DENSITY CEILINGS WRAPAROUND ACRYLIC PRISMATIC DIFFUSER; WHITE ENAMEL ENDPLATES; MINIMUM CU OF 70 @ 80/50/20 AND RCR=1;									
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;	LED	48W	277/120V	LITHONIA	LBL4 LP840				
	APPROX; 3" X 10" X 48"	3500K			COLUMBIA	LWC4 40 ML EU				
	X 48".	METALUX WNLED LD1 41 1 UNV L835 CD1 U								
	4800 LUMENS				DAYBRITE	OWL450L835UNV				
WS	WALL MOUNTED LED LOCATED ABOVE WALL ELEMENT (MIRROR/WHITEBOARD, ETC.): AS INDICATED ON DRAWINGS;									
WS-2	36" LED VANITY LIGHT	LED	19W	120/277V	EDGE LIGHT	TW12 S11 1RE 36" 30k CH				
	SATIN CHROM FINISH	3500K			EUREKA	3541 35 LED 17.40 120/277 SC WH				
	2.25" WIDE				LBL	LBL LW496 OP XX LED 277				
ZX	OUTDOOR AREA LIGHT. SINGLE HEAD PER POLE AS SHOWN ON DRAWINGS. WET LABEL. LED LIGHT ENGINE, OPTICS AND DRIVE BELOW; RATED 100 MPH WITH 1.3 GUST FACTOR				D LIGHT ENGINE, OPTICS AND DRIVERS ACCESSIBLE FROM					
ZX-2	LED POLE MOUNTED AREA LIGHT,	LED	72W	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T2M-MVOLT-HS				
	TYPE II OPTICS, BRONZE FINISH	3500K	3500 LU							
	HOUSE SIDE SHIELD									
	9' SSS POLE, FINISH TO MATCH FIXTURE									
ZX-4	LED POLE MOUNTED AREA LIGHT,	LED	72W	120/277V	LITHONIA	DSX0-LED-20C-1000-35K-T4M-MVOLT-HS				
	TYPE IV OPTICS, BRONZE FINISH	3500K	3500 LU							
	HOUSE SIDE SHIELD									

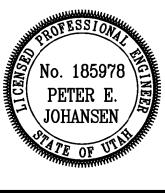
9' SSS POLE, FINISH TO MATCH FIXTURE

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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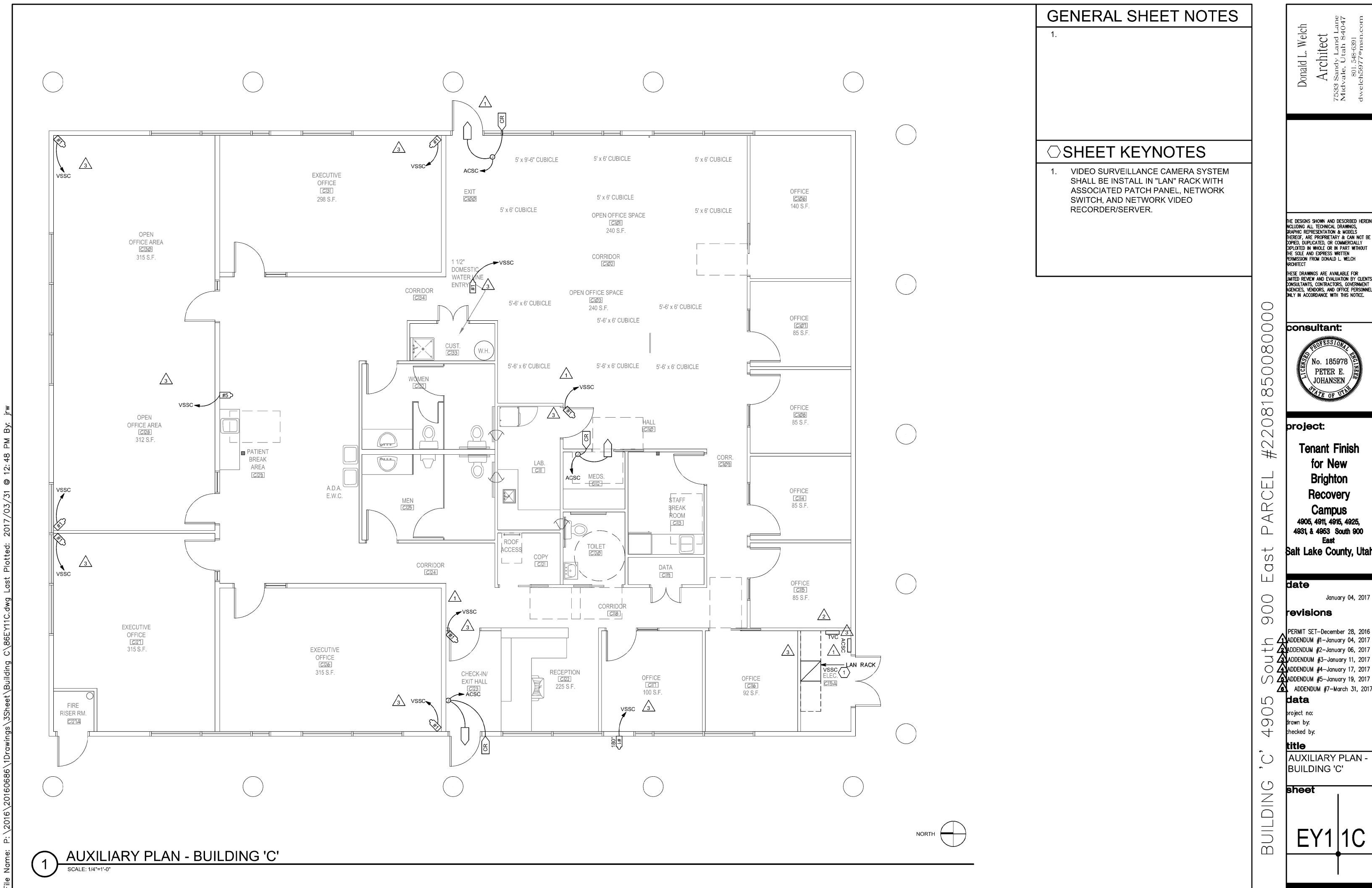
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LIGHTING FIXTURE SCHEDULE

sheet

EL6 01



Donald L. Welch

Architect Sandy Land L vale, Utah 84

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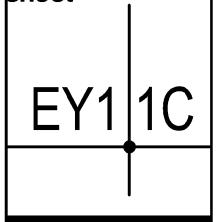
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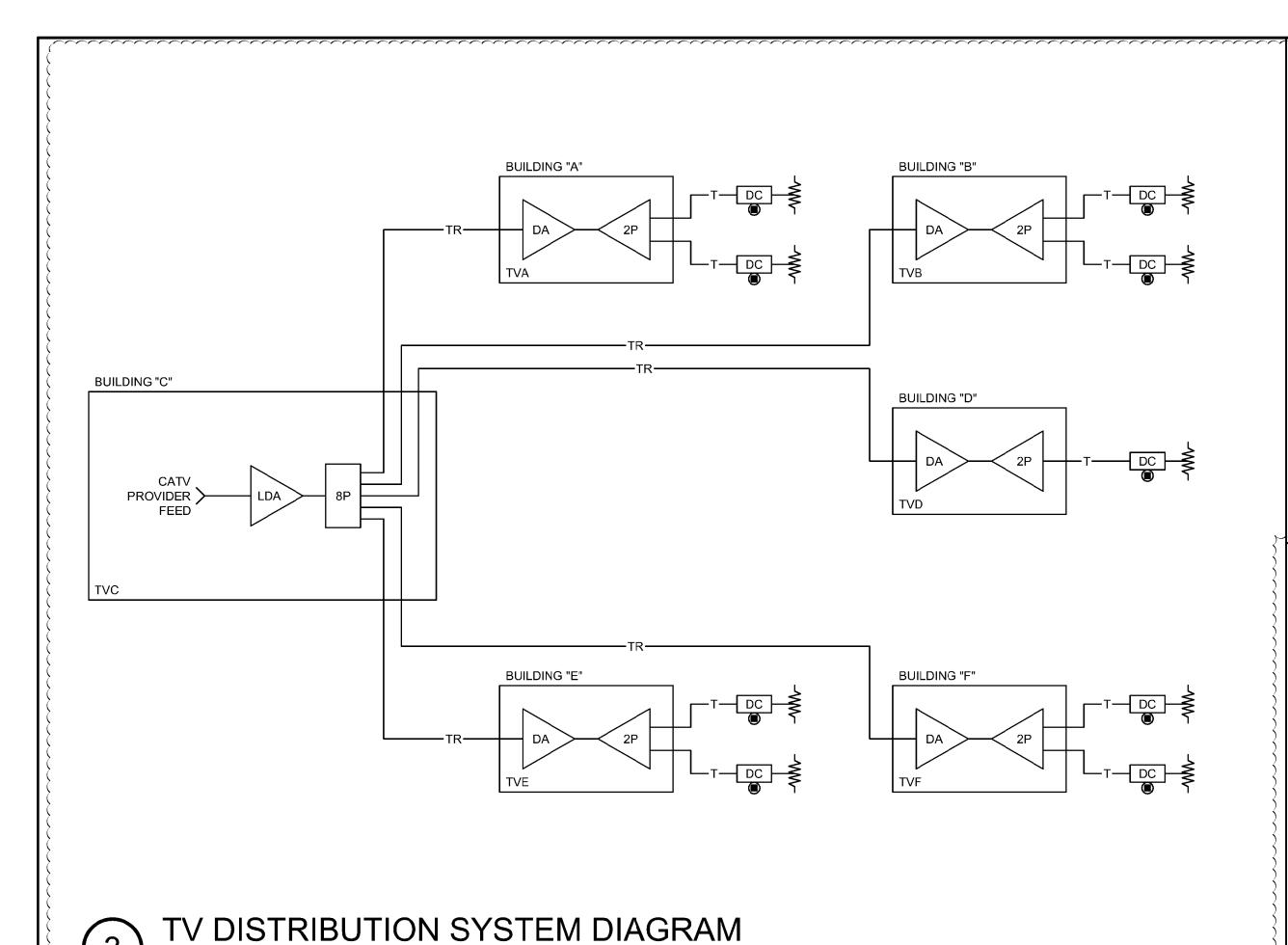
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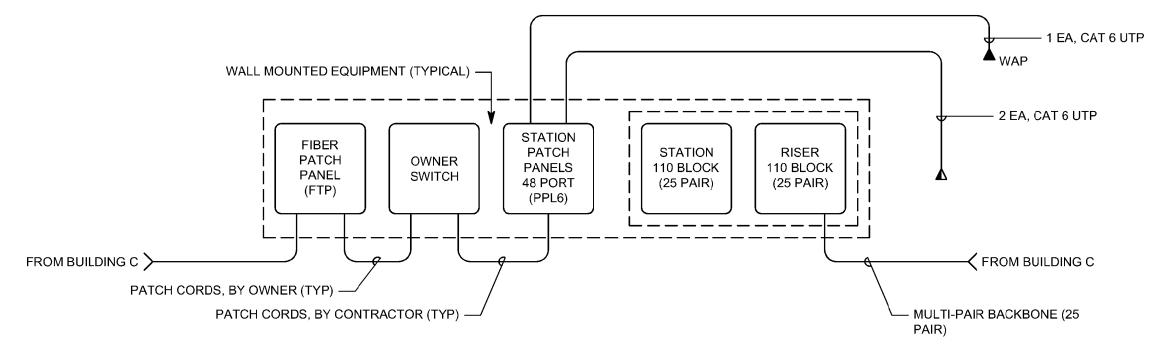
AUXILIARY PLAN -BUILDING 'C'



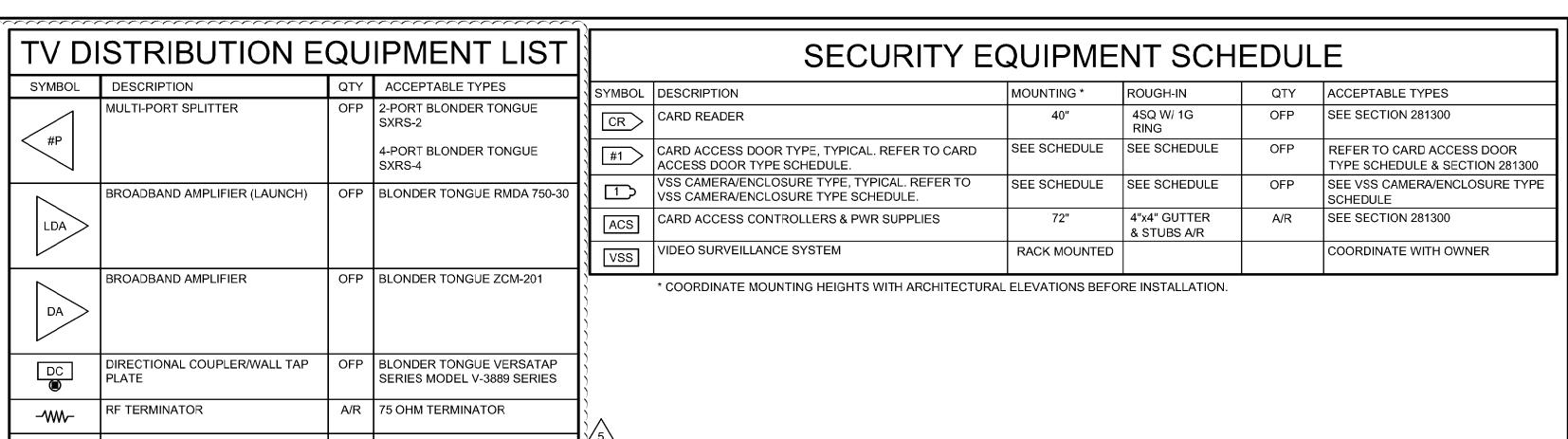


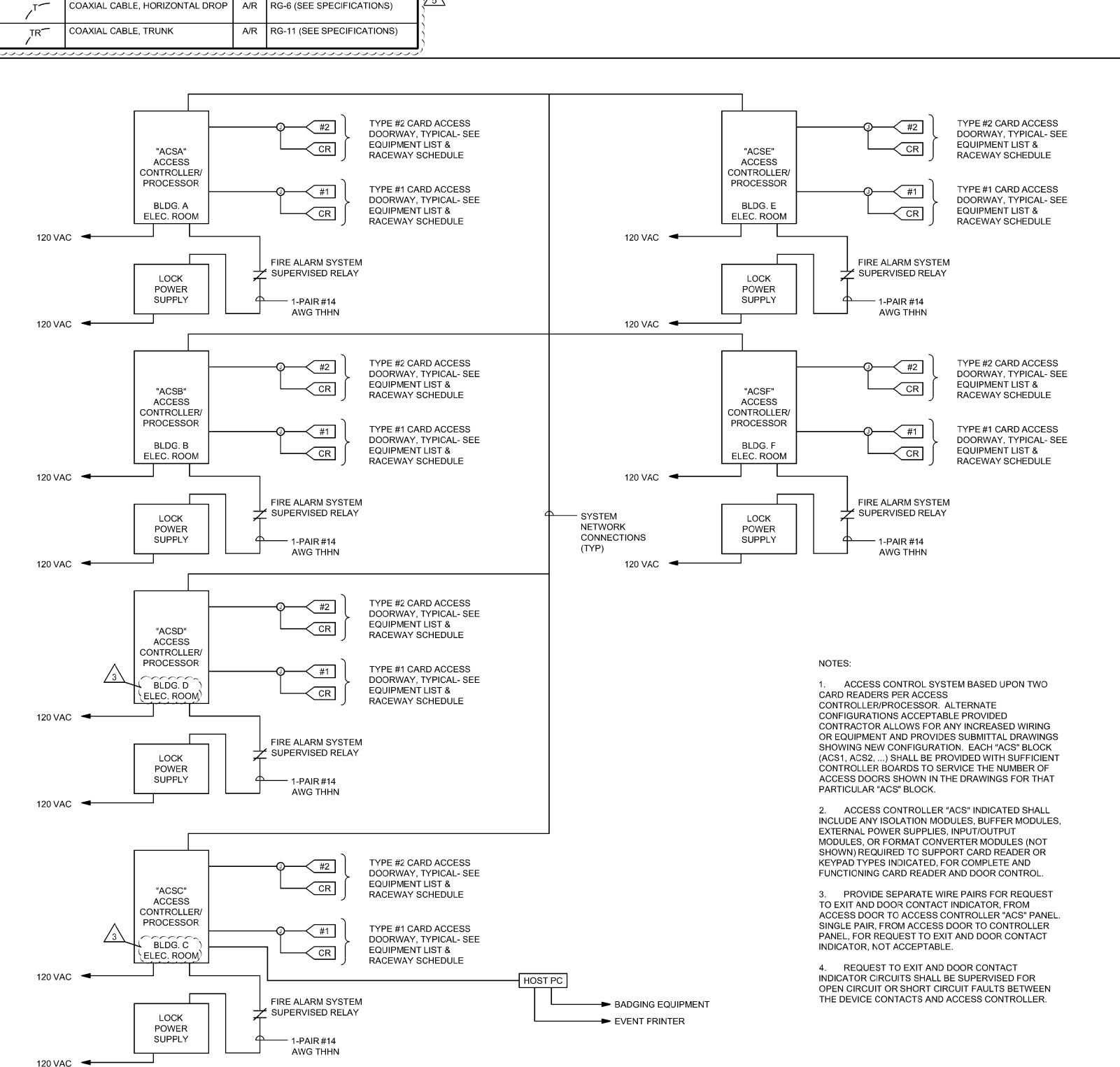
STRUCTURED CABLING SYSTEM NOTES

- 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)
NO SCALE





ACCESS CARD SYSTEM (ACS) RISER DIAGRAM

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dwelch5977@msn.con

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4931, & 4953 South 900

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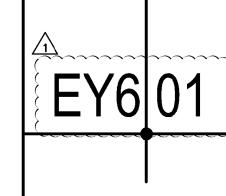
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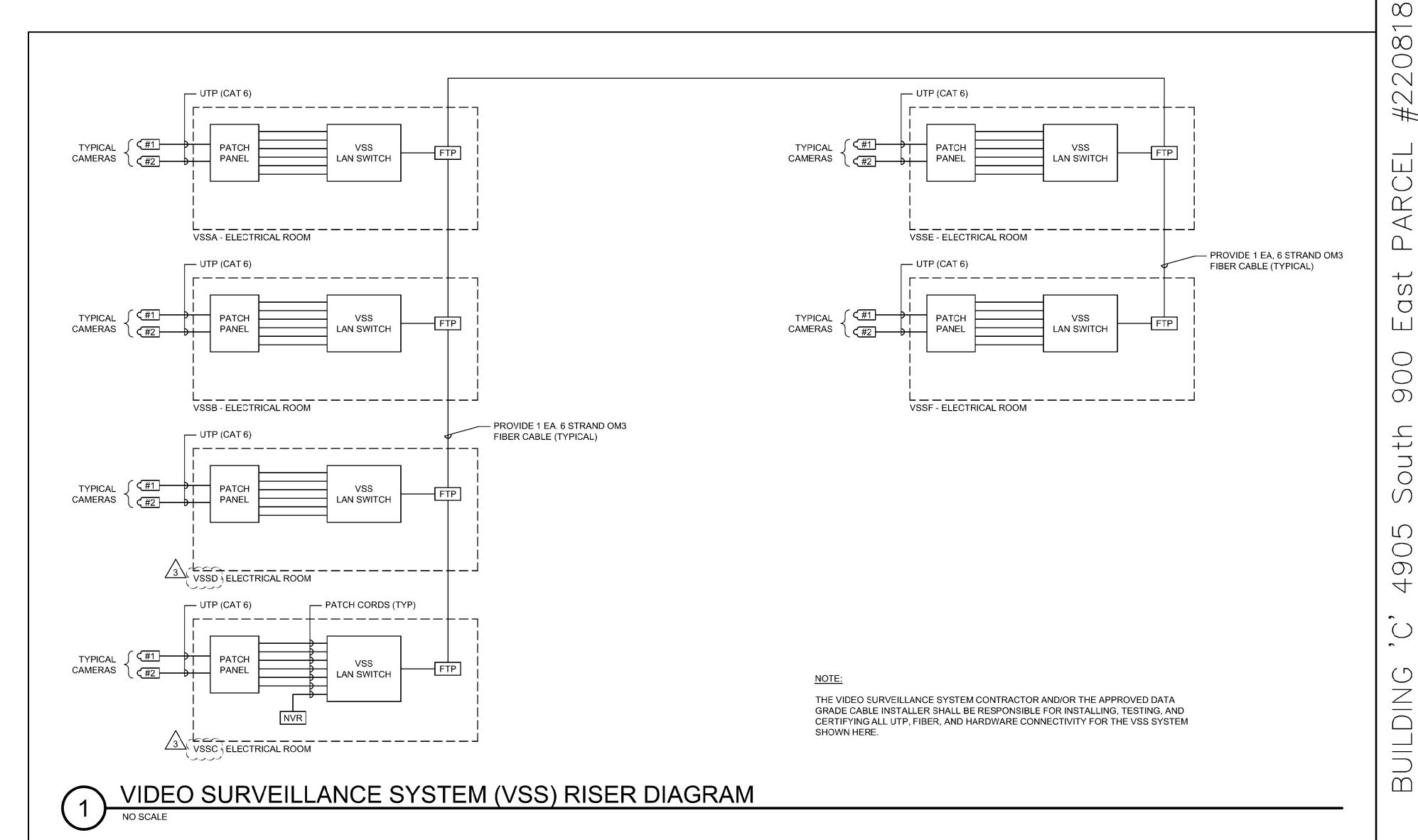
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DIAGRAMS



VSS CAMERA/ENCLOSURE 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.					
TYPE 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.					
TYPE 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					
TYPE 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					
TYPE 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.					

OL DESCRIPTION POE NETWORK SWITCH	ACCEPTABLE TYPES NETGEAR
POE NETWORK SWITCH	NETGEAR
NETWORK VIDEO RECORDER	SEE SPECIFICATION 282300
VIDEO CAMERA	SEE VSS CAMERA SCHEDULE
4 PAIR, CAT 6, UTP PLENUM .E	SEE SPECIFICATIONS
	VIDEO CAMERA 4 PAIR, CAT 6. UTP PLENUM

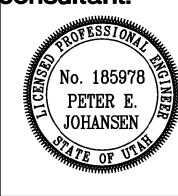


4931, & 4953 South 900 ADDENDUM #7-March 31, 2017

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Brighton Recovery Campus 4905, 4911, 4915, 4925,

Salt Lake County, Utah

January 04, 2017

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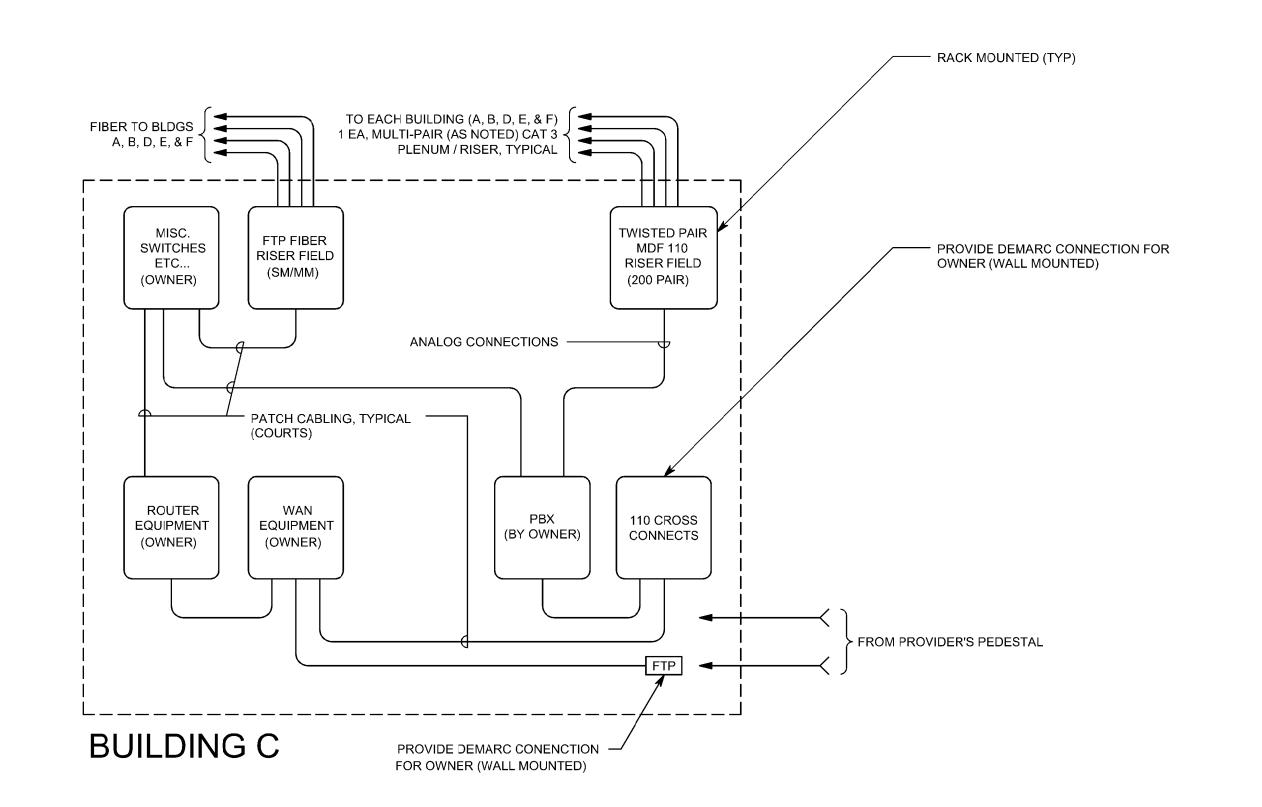
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drawn by: checked by:

AUXILIARY RISER DIAGRAMS



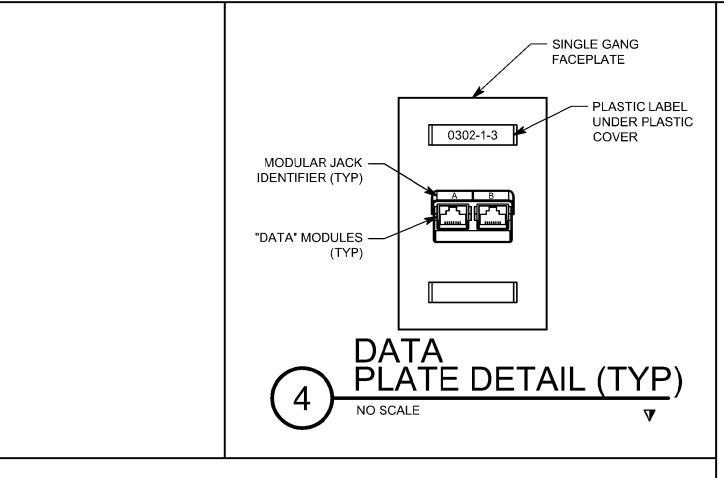
VOICE/DATA EQUIPMENT/CABLE LIST

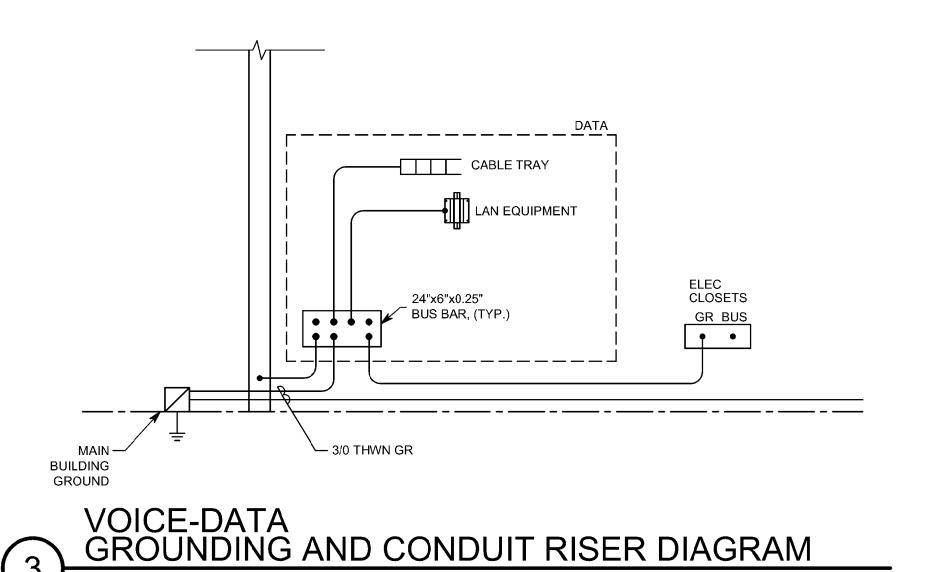
GENERAL NOTE:
THIS REPRESENTS ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION, WHILE THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". FURNISH ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE FOR A COMPLETE INSTALLATION. COMPARE CATALOG 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

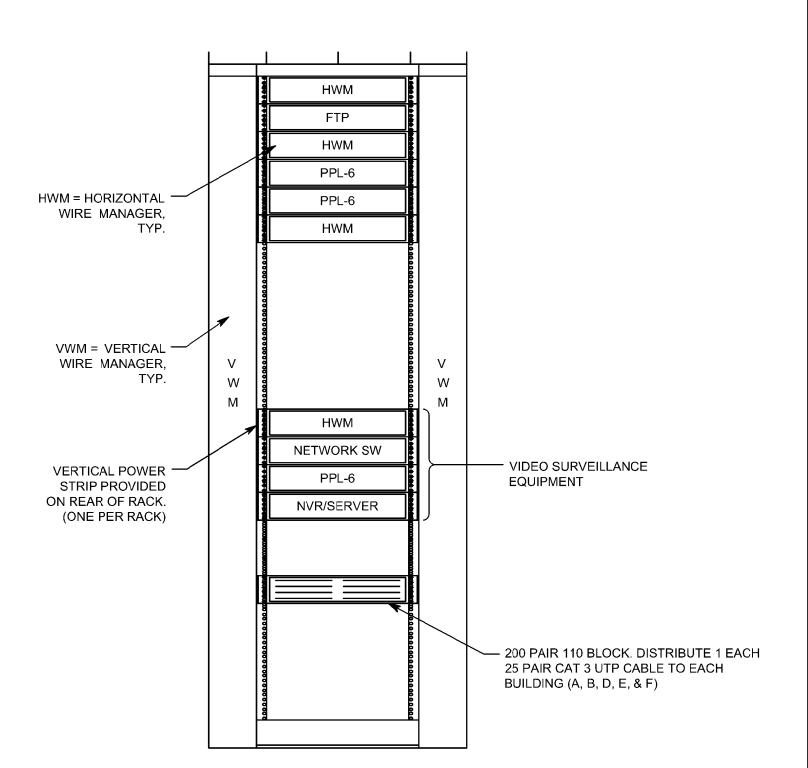
SYMBOL	ITEM DESCRIPTION	COMMENTS
	4 PAIR 24 GAUGE CAT 6 UTP, PLENUM CABLE	SEE SPECIFICATIONS
	6 STRAND FIBER PLENUM CABLE, MULTI-MODE (OM3)	SEE SPECIFICATIONS
PPL6-48	48-PORT PATCH PANEL WITH CAT 6 RJ45 JACKS; MOUNTED IN RACK.	PROVIDE FOR QUANTITY OF PORTS SHOWN ON DRAWINGS, PLUS 20%
FTP	SC TYPE CONNECTOR 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

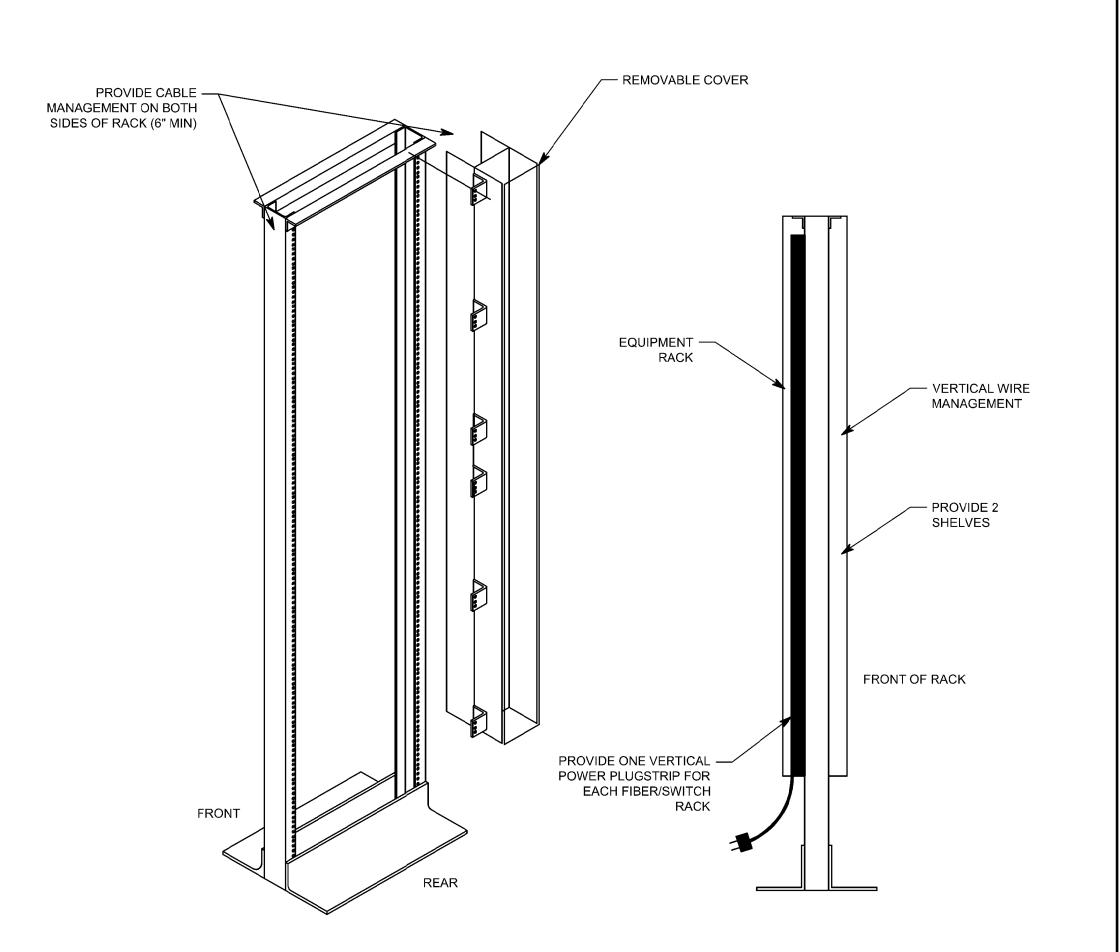






- RACK LAYOUTS ARE FOR COORDINATION PURPOSES. ALL FINAL RACK LAYOUTS ARE TO BE COORDINATED WITH OWNER PERSONNEL.
- 2. PROVIDE ALL WIRE MANAGEMENT ACCESSORIES SHOWN.

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

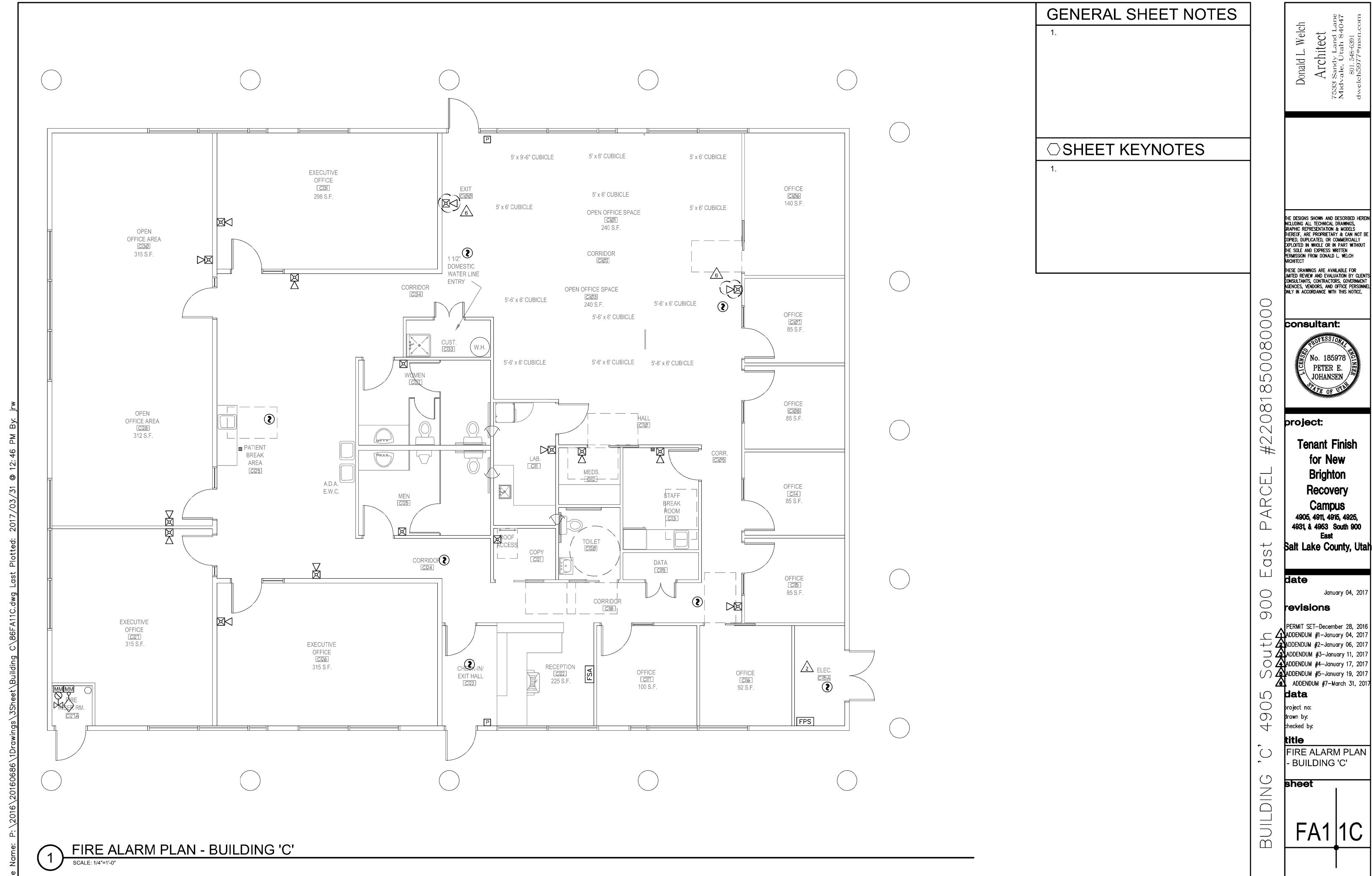
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ADDENDUM #7-March 31, 2017 data

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AUXILIARY RISER DIAGRAMS

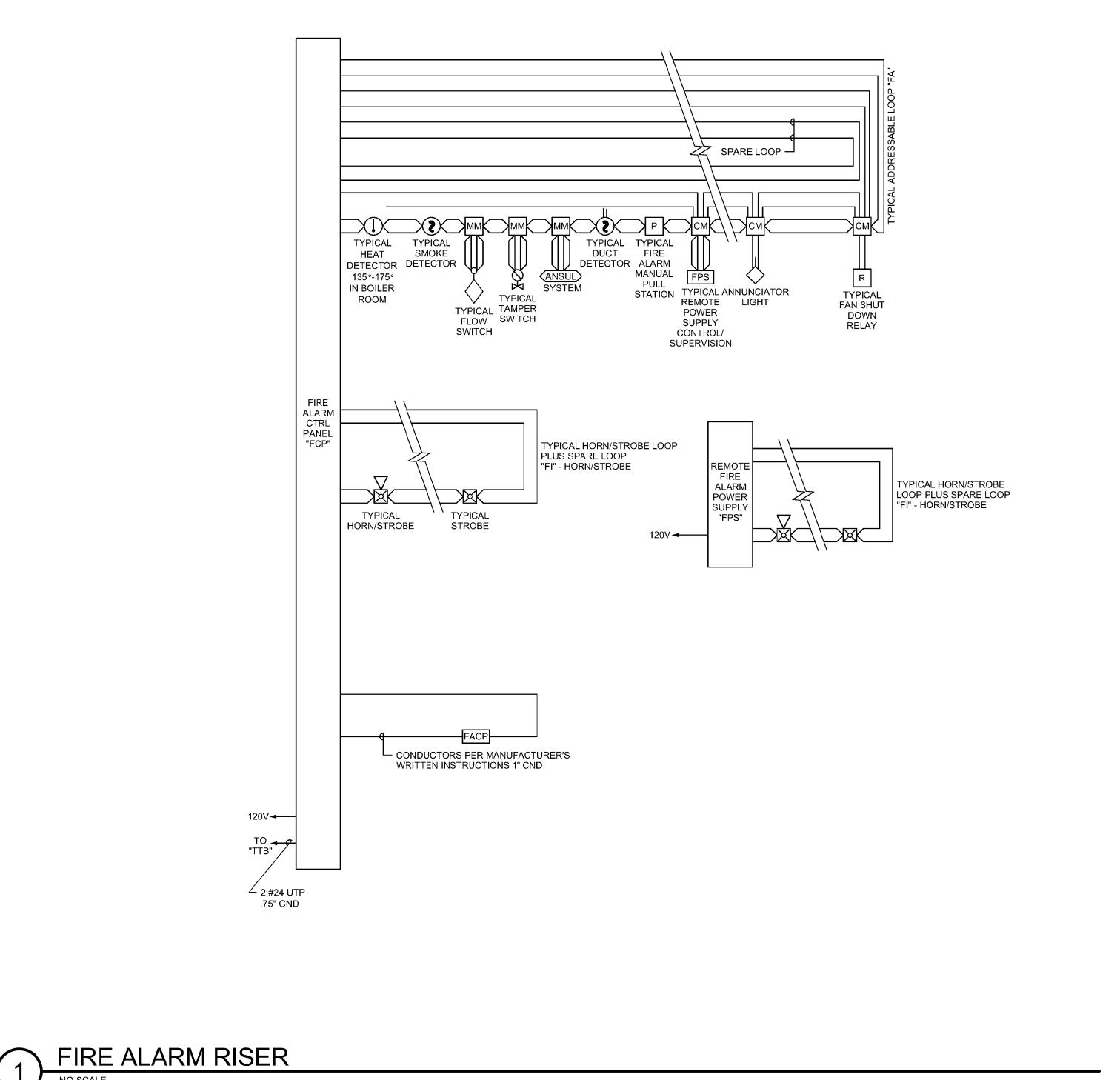
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WIRING SCHEDULE										
FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'						
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP						
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN						
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN						
STROBE HORNS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

FIRE ALARM INPUT/OUTPUT MATRIX		OUTPUT DEVICES											
		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	•						•	•			
	2	RISER BLDG 'A' TAMPER									•		
	3	RISER BLDG 'B' FLOW		•					•	•			
	4	RISER BLDG 'B' TAMPER									•		
	5	RISER BLDG 'C' FLOW			•				•	•			
ES	6	RISER BLDG 'C' TAMPER									•		
DEVICES	7	RISER BLDG 'D' FLOW				•			•	•			
	8	RISER BLDG 'D' TAMPER									•		
INITIATING	9	RISER BLDG 'E' FLOW					•		•	•			
Z	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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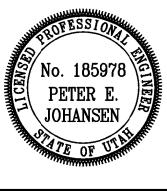
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FIRE ALARM RISER DIAGRAM