GENERAL NOTES

1. CONTRACTOR TO VERIFY WITH UTILITIES EXACT LOCATION OF EXISTING UNDERGROUND SERVICES. CONTACT CALL BEFORE YOU DIG AT: (811)

- 2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THESE DRAWINGS, THE SPECIFICATIONS, AND THE CURRENT EDITIONS OF THE IBC, IMC, IPC, IFC, NEC, IECC, NFPA 13, NFPA 72, NFPA 24, NFPA 25, AND ALL CITY OF WALLA WALLA REGULATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND PROVIDING ALL REQUIRED DOCUMENTATION FOR ISSUANCE OF PERMITS, INCLUDING ANY AND ALL ENGINEERING, STAMPED AND SIGNED BY REGISTERED PROFESSIONAL ENGINEERS IN THE STATE OF WASHINGTON APPROPRIATE TO THE DISCIPLINE.
- 3. THE CONTRACTOR AGREES TO ASSUME SAFE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE DURING THE COURSE OF THE PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND. INDEMNIFY AND HOLD THE ARCHITECT AND OWNER HARMLESS FROM ANY AND ALL LIABILITY. REAL OR ALLEGED. IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ARCHITECT, OR THIRD PARTY IN VIOLATION OF THE LAW OR IN TRESPASS. THE CONTRACTOR SHALL PRACTICE SAFETY AT ALL TIMES AND SHALL FURNISH, ERECT, AND MAINTAIN SUCH FENCES, BARRICADES, LIGHTS, AND SIGNS NECESSARY TO GIVE ADEQUATE PROTECTION TO THE PUBLIC AT ALL TIMES. THE ARCHITECT MAKES NO WARRANTY THAT THE CONSTRUCTION-PHASE FENCES, ETC., ARE ADEQUATE TO ENSURE SAFETY DURING CONSTRUCTION OPERATIONS.
- 4. ALL EXISTING CONDITIONS ARE TO BE FIELD VERIFIED TO CONFIRM COMPLIANCE WITH THE PLANS. IF DISCREPANCIES ARE FOUND NOTIFY THE ARCHITECT TO CONFIRM HOW TO PROCEED.
- 5. CONTRACTOR SHALL COORDINATE AND COMPLETE ALL NECESSARY CUTTING, PATCHING, DRILLING AND SIMILAR WORK. ANY CONNECTIONS, OR PENETRATIONS REQUIRED TO ACCOMPLISH THE SCOPE OF FINISHED WORK REFLECTED IN THE DOCUMENTS ARE A PART OF THE CONTRACT. CONTRACTOR SHALL PROTECT EXISTING FINISHES AND UTILITIES DURING CUTTING AND DRILLING WORK, AND SHALL REPAIR ANY DAMAGE TO EXISTING BUILDING AND RETURN TO LIKE-NEW CONDITION WITHOUT ADDITIONAL COST TO THE OWNER.
- 6. THE CONTRACTOR SHALL ACCOMPLISH CONSTRUCTION ACTIVITIES TO NOT INTERFERE WITH EMERGENCY EGRESS, AND DISABLED ACCESSIBLE PATHWAYS. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR PUTTING IN PLACE TEMPORARY FACILITIES (RAMPS, PATHWAYS, BARRICADES, TUNNELS, SIGNAGE ETC.,) TO ASSURE THAT ALL LIFE/SAFETY EGRESS ROUTES AND ACCESSIBLE PATHWAYS ARE AVAILABLE IF THE WORK OF THIS PROJECT OBSTRUCTS EGRESS OR DISABLED ACCESSIBLE ROUTES.
- 7. THE EXISTING SUBSTRATES IN THE PROJECT AREA ARE ANTICIPATED TO BE IRREGULAR IN NATURE AND CONDITION. THE WORK OF THIS CONTRACT WILL INCLUDE THE PATCHING OF EXISTING HOLES AND PENETRATIONS TO THESE SURFACES, THE GRINDING AND FILLING OF SURFACES TO ATTAIN SUITABLE SUBSTRATES FOR FINISHES. THROUGHOUT THE PROJECT AREA. THE ASSIGNMENT OF THIS SUBSTRATE IMPROVEMENT TO INDIVIDUAL TRADES IS ENTIRELY THE GENERAL CONTRACTOR'S RESPONSIBILITY. IT IS UNDERSTOOD THAT BY SUBMITTING A BID ON THIS PROJECT THE CONTRACTOR (AND THEIR SUB-CONTRACTORS AND SUPPLIERS) HAVE VISITED THE SITE, OBSERVED THE EXISTING CONDITIONS AND HAVE INCLUDED ALL WORK NECESSARY FOR A FINISHED INSTALLATION IN THEIR BID
- 8. THE PROJECT IS BEING ACCOMPLISHED IN A FULLY OCCUPIED BUILDING: ALL WORK SHALL BE COORDINATED TO MINIMIZE THE DISRUPTION TO THE OWNER'S ACTIVITIES. DISRUPTIVE WORK, INCLUDING BUT NOT LIMITED TO MATERIAL DELIVERY, LOUD NOISE OR VIBRATION CAUSING WORK WILL NEED TO BE COORDINATED WITH THE OWNER. ALL UTILITY SHUT DOWNS MUST BE SCHEDULED IN ADVANCE, AS DEFINED IN THE CONTRACT DOCUMENTS. ANY PREMIUM COSTS TO ACCOMPLISH THIS SHALL BE A PART OF THE BID.
- 9. THE FINISHES OF THE EXISTING BUILDING SHALL BE PROTECTED AND MAINTAINED THROUGHOUT THE COURSE OF CONSTRUCTION. ANY DAMAGE CAUSED BY THE WORK OF THIS PROJECT SHALL BE REPAIRED AND RETURNED TO LIKE-NEW CONDITION WITHOUT ADDITIONAL COST TO THE OWNER. FINISHES THAT MAY NEED TO BE REPAIRED OR REPLACED AS A RESULT OF THIS REQUIREMENT INCLUDE BUT ARE NOT LIMITED TO FLOORING, RESILIENT BASE, WALL PATCHING & PLASTERING, WALL PANEL FINISHES, PAINTING, AND SIMILAR RELATED CONDITIONS. REPLACEMENT FINISH WORK IS LIMITED TO THE IMMEDIATE AREA IMPACTED BY THE WORK OF THIS PROJECT. SHOULD ANY CLEANING OR REPAIR WORK BE REQUIRED AND NOT ACCOMPLISHED BY THE CONTRACTOR THE COST OF THE CLEANING AND REPAIR SHALL BE BACK-CHARGED TO THE CONTRACTOR.
- 10. THE UTILITY COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR. ALL TRADES SHALL COORDINATE THEIR LAYOUT TO ENSURE THAT THE FINISH LAYOUT IS ATTAINED
- 11. NO SURFACE MOUNT CONDUIT WILL BE ALLOWED. ALL EXISTING SURFACE MOUNT CONDUIT WILL BE REMOVED, AND ALL NEW CONDUIT RUNS SHALL BE ROUTED IN SUCH A WAY AS TO BE CONCEALED BELOW FLOORS, CEILINGS OR WITHIN WALLS.

DESIGN TEAM

OWNER

ST. PATRICK PARISH 415 W. ALDER STREET WALLA WALLA, WA 99362 TEL: (509) 525-3310

ARCHITECTURAL

DESIGN WEST ARCHITECTS P.A. 254 EAST MAIN STREET PULLMAN, WASHINGTON 99163 TEL: (509) 332-3113 FAX: (509) 332-3327

MECHANICAL ENGINEER

KARTCHNER ENGINEERING 101 S. STEVENS STREET SUITE 201 SPOKANE, WA 99201 TEL: (509) 922-0383

ELECTRICAL ENGINEER

KWR LLC 5915 S REGAL STREET, SUITE 201 SPOKANE, WA 99223

TEL: (509) 473-9218

DRAWING INDEX GENERAL:

COVER SHEET G1.00

ARCHITECTURAL MAIN FLOOR DEMOLITION PLAN A3.20 BALCONY FLOOR DEMOLITION PLAN A3.21 MAIN FLOOR PLAN A3.30 FINISH FLOOR PLAN A3.40 A3.50 REFLECTED CEILING PLANS A5.10 WALL SECTIONS

- A7.11 INTERIOR ELEVATIONS A8.00 DETAILS A8.01 DETAILS ELECTRICAL:
- ELECTRICAL LEGEND E0.01 E1.01
- LIGHTING DEMOLITION PLANS E2.01 LIGHTING PLANS EXISTING POWER ONE-LINE DIAGRAM & PANEL SCHEDULES E6.01
- ELECTRICAL SPECIFICATIONS E8.01
- **SYMBOLS** BUILDING SECTION REVISIONS DOOR NUMBER

WALL SECTION

DETAIL

EXTERIOR ELEVATION INTERIOR ELEVATION

/1\ $\langle 01 \rangle$

A1<u>/A4.</u>00 A1<u>/A7</u>.10



BLAKE FISHER ARCHITECTURE & DESIGN

CODE SUMMARY

COMMENTARY #1: ALL IMPROVEMENTS THAT ARE PART OF THIS PROJECT IN THE EXISTING BUILDING ARE RELATED TO THE FINISHES AND RE-ARRANGEMENT OF THE SANCTUARY PORTION OF THE CHURCH. NO CHANGE OF USE SHALL OCCUR FOR FIRE RATINGS, FLAME SPREAD, AND SMOKE DEVELOPMENT RATINGS. THE EXISTING CONSTRUCTION TYPE OF THE BUILDING IS III-B (ASSUMED).

CODE COMMENTARY #2: THE 2018 IEBC SECTION 602 DEFINES THIS PROJECT AS A LEVEL 1 ALTERATION AND ALL NEW WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2018 IEBC CHAPTER 7.

CODE COMMENTARY #3: THE OCCUPANCY COUNT AND EGRESS SYSTEM COMPONENTS SHALL NOT CHANGE FROM THE CURRENT PERMITTED USE. AS REQUIRED FOR A LEVEL 1 ALTERATION, THE ALTERATIONS SHALL BE DONE IN A MANNER THAT MAINTAINS THE LEVEL OF PROTECTION PROVIDED BY THE EXISTING MEANS OF EGRESS.

CODE COMMENTARY #4: AN ENVELOPE SUMMARY IS NOT APPLICABLE TO THIS PROJECT. NO NEW SQUARE FOOTAGE IS BEING ADDED TO THE FACILITY. THE REMAINING EXISTING BUILDING ENVELOPE, AND WALLS BORDERING THE PROJECT AREA, WILL REMAIN UNCHANGED.

CONTACT: FR. NICKS

CONTACT:

CONTACT:

NED WARNICK

CONTACT:

MARK KARTCHNER AARON WHITING

ST. PATRICK PARISH 415 W. ALDER ST. WALLA WALLA, WA 99362



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			114SD RE AN NZRUAN Y STATE OF WA	
			ST. PATRICK PARISH	415 W. ALDER STREET WALLA, WA 99362
			DA 09/29 SHEET MA FLO DEMOI PLA	TE /2022 NAME IN OR ITION AN A
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DEMOLITION KEYED NOTES:

(1) REMOVE PEWS AND CHAIRS - RETAIN FOR REINSTALLATION AT NEW LOCATION

- (D2) REMOVE BAPTISMAL RETAIN MARBLE PANELS FOR REINSTALLATION AT NEW LOCATION
- $\langle D3 \rangle$ SALVAGE AMBO AND RETURN TO OWNER.
- $\langle D4 \rangle$ SALVAGE ALTER AND RETURN TO OWNER.
- (D5) SALVAGE PENDENT LIGHTING AND RETURN TO OWNER.
- (D6) DEMOLISH RAISED FLOORING.

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(D7) REMOVE CARPET FLOORING.

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- (D8) DEMOLISH MARBLE FLOORING.
- $\langle D9 \rangle$ DEMOLISH EXISTING DOOR AND FRAME ASSEMBLY.
- DEMOLISH EXISTING WINDOWS AND FRAME ASSEMBLY, PATCH AND REPAIR WALL TO MATCH ADJACENT FINISH AT THIS LOCATION.
- (1) REMOVE CONFESSIONAL ASSEMBLY RETAIN FOR REINSTALLATION AT NEW LOCATION
- (12) DEMOLISH EXISTING TILE FROM FRONT STEPS AND PREP STAIRS FOR NEW CONCRETE
- (13) SALVAGE PRESIDER'S CHAIRS AND RETURN TO OWNER.





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			NORMAN W STATE OF WA	
			ST. PATRICK PARISH	415 W. ALDER STREET WALLA WALLA, WA 99362
			DATE 09/29/202 SHEET NAME BALCONY FLOOR FLOOR DEMOLITIO PLAN	
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			REFURBISH, REPAIR, CLEAN SEAL MARBLE TYPICAL ENTI ALTAR REFERENCE D1/A8.0 SACRISTY 109	I, AND IRE 1	
RECONCILIATION E7 A8.00					

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TS, P.A.

A R C H I T E C -• MERIDIAN, IDAHO • PULLMA

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JOB NUMBER

21081

REVISIONS

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SHEET NOTES

SHEET G1.00 FOR SYMBOLS AND GENERAL NOTES.

DVIDE SOLID WOOD BLOCKING AS REQUIRED TO SUPPORT ALL WALL HUNG EQUIPMENT, AB BARS, RAILINGS AND OTHER ACCESSORIES. VERIFY LOCATIONS PRIOR TO INSTALLATION GYPSUM BOARD. SEE E9/A8.00 AND C9/A8.00.

ORS AND CASED OPENINGS WITHOUT LOCATION DIMENSIONS ARE TO BE 3" FROM ADJACENT RTITION.

ENSIONS ARE FROM FACE OF STUD OR FACE OF MASONRY U.N.O.

NCEAL ALL EQUIPMENT, DEVICES AND PATHWAYS IN WALL OR FLOOR CONSTRUCTION HIN PROJECT AREA.



2 3 Ò D Ì NXXXX NTRY 101 C В Α MAIN FLOOR PLAN **A1** SCALE: 1/8" = 1'-0" 2 3 1







4 5 6	SCALE: 1/8" = 1'-0"			
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Thomas Sutton 9/29/2022 3:30:13 PM

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		EXI	STING LU	JMINAIR	E SCHE	DULE
TYPE	SYMBOL	MFGR & CATALOG NUMBER	DRIVER	MOUNTING	LIGHT SOURCE	LUMEN OUTPUT
E01	ծ	REMOVE EXSITNG AND DISPOSE OF LAMPS, BALLASTS, AND MATERIALS AS REQUIRED BY THE LOCAL JURISDICTION AND DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR DIRECTION. RETAIN EXISTING DECORATIVE MOUNTING CANOPY FOR RE-USE.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E02	ю	REMOVE EXSITNG AND DISPOSE OF LAMPS, BALLASTS, AND MATERIALS AS REQUIRED BY THE LOCAL JURISDICTION AND DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR DIRECTION.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E03	o	EXISTING TO REMAIN. CONTRACTOR TO RE-LAMP LUMINAIRE TO AN EQUIVALENT REPLACEABLE LED LAMP SOURCE WITH MATCHING KELVIN TEMPERATURE OF NEW LIGHTING.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E04	O	EXISTING TO REMAIN. CONTRACTOR TO RE-LAMP LUMINAIRE TO AN EQUIVALENT REPLACEABLE LED LAMP SOURCE WITH MATCHING KELVIN TEMPERATURE OF NEW LIGHTING.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E05	ծ	REMOVE EXSITNG AND DISPOSE OF LAMPS, BALLASTS, AND MATERIALS AS REQUIRED BY THE LOCAL JURISDICTION AND DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR DIRECTION. RETAIN EXISTING DECORATIVE MOUNTING CANOPY FOR RE-USE.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E07	••	EXISTING TO REMAIN. PROTECT IN PLACE.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
E08	ю	EXISTING TO REMAIN. PROTECT IN PLACE.	ELEC 120-277V ELEC 120-277V	PENDANT	LED LED	
EX01	\$	EXISTING TO REMAIN. PROTECT IN PLACE.	ELECTRONIC	CEILING	(1)	

	LUMINAIRE SCHEDULE									
TYPE	SYMBOL	MFGR & CATALOG NUMBER	DRIVER	MOUNTING	LIGHT SOURCE	LUMEN OUTPUT	INPUT WATTS	LUMENS/ WATT	NOTES	
F01	\oplus	G-LIGHITNG CUSTOM #GL-CUSTOM FIXTURE NO. TBD	ELEC 120-277V, ELV DIMMING	SURFACE	LED, 3500K	N/A	N/A	N/A	20-INCH DIAMETER x 10-INCH TALL CUSTOM DECORATIVE TRADITIONAL SEMI-FLUSH SURFACE MOUNT. WHITE OPAL DIFFUSER. STANDARD FINISH AS SELECTED BY ARCHITECT/OWNER. MOUNTED TO EXISTING DECORATIVE CANOPYJUNCTION BOX. PROVIDE REMOTE DRIVER TO BE INSTALLED IN LOCATION AS DETERMINED BY ARCHITECT/OWNER.	
P01	ο	G-LIGHITNG CUSTOM #GL-4LED35 CUSTOM FIXTURE NO. P-21455-A (QUOTE # 27082)	ELEC 120-277V, ELV DIMMING ELEC 120-277V, ELV DIMMING	PENDANT	LED, 3500K LED, 3500K	16,688 LM + 4567 LM (Downlight)	201W	106	12-INCH DIAMETER x 34" TALL (60" OVERALL) CUSTOM DECORATIVE TRADITIONAL PENDANT WITH MOIDIFIED LUMEN OUTPUT. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT MOUNTING HEIGHT PRIOR TO ORDERING. WHITE OPAL DIFFUSER. STANDARD FINISH AS SELECTED BY ARCHITECT/OWNER. MOUNTED TO EXISTING DECORATIVE CANOPY. COORDINATE WITH MANUFACTURER FOR ADDITIONAL MATERIALS AND SUPPORTS AS REQUIRED. PROVIDE (2) REMOTE DRIVERS TO BE INSTALLED IN ATTIC SPACE. ONE CIRCUIT TO CONTROL AMBIENT LIGHT AND ONE CIRCUIT TO CONTROL DOWNLIGHT.	
P01A	ο	G-LIGHITNG SOUTHFIELD #GL-4LED35 CUSTOM FIXTURE NO. P-21455-A (QUOTE # 27082)	ELEC 120-277V, ELV DIMMING ELEC 120-277V, ELV DIMMING	PENDANT	LED, 3500K LED, 3500K	4,000 LM + 2500 LM (Downlight)	201W	106	12-INCH DIAMETER x 34" TALL (60" OVERALL) CUSTOM DECORATIVE TRADITIONAL PENDANT WITH MOIDIFIED LUMEN OUTPUT. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT MOUNTING HEIGHT PRIOR TO ORDERING. WHITE OPAL DIFFUSER. STANDARD FINISH AS SELECTED BY ARCHITECT/OWNER.	
W01	ю	G-LIGHITNG CUSTOM #GL-CUSTOM FIXTURE NO. TBD	ELEC 120-277V, ELV DIMMING	WALL	LED, 3500K	N/A	N/A	N/A	12-INCH DIAMETER x 34" TALL CUSTOM DECORATIVE TRADITIONAL WALL MOUNTED SCONCE WITH MOIDIFIED LUMEN OUTPUT. COORDINATE WITH OWNER AND ARCHITECT FOR EXACT MOUNTING HEIGHT PRIOR TO ORDERING. WHITE OPAL DIFFUSER. STANDARD FINISH AS SELECTED BY ARCHITECT/OWNER. MOUNTED TO EXISTING JUNCTION BOX. PROVIDE REMOTE DRIVER TO BE INSTALLED IN LOCATION AS DETERMINED BY ARCHITECT/OWNER.	

		CONTROL DE	EVICE SCHEDULE
SYMBOL	DESCRIPTION	PRODUCT	NOTES
\$	LINE VOLTAGE WALL SWITCH		LOWERCASE LETTER SUBSCRIPTS INDICATE NUMBER OF POLES/BUTTONS. EACH LETTER REPRESENTS A ZONES OF CONTROL (I.E. SUBSCRIPT 'ab' INDICATES A 2-POLE, 2-BUTTON WALL SWITCH)

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DRAWINGS.

OTHERWISE NOTED.

GENERAL NOTES



DEVICES TO LUMINAIRES FOR CONTROL OF LUMINAIRES SHOWN. 4. LUMINAIRES SHOWN ON DRAWINGS FOR QUANTITY AND CIRCUITING ONLY. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS.

5. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUND CONDUCTOR SIZED PER NEC TABLE 250.122. FEEDERS AND BRANCH CIRCUITS OVER 100A ARE BASED ON COPPER (CU) PER NEC TABLE 310.15(B)(16), USING 75 DEGREE AMPACITIES. FEEDERS 100A OR LESS USE 60 DEGREE C COLUMN.

1. "GENERAL NOTES" LISTED ON THIS COVER SHEET APPLY TO ALL DRAWINGS.

"GENERAL NOTES" ON EACH INDIVIDUAL SHEET APPLY TO THE SHEETS WHICH

THEY ARE WRITTEN. "FLAG NOTES" APPLY ONLY WHERE CALLED OUT ON THE

2. ALL EQUIPMENT SHOWN IN BOLD IS TO BE PROVIDED BY CONTRACTOR UNLESS

3. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRE FROM ALL CONTROL

- 6. BRANCH CIRCUIT CONDUCTORS, IF NOT OTHERWISE IDENTIFIED, SHALL BE A MINIMUM #12 AWG FOR RUNS 70 FEET OR LESS, AND A MINIMUM OF #10 AWG FOR RUNS GREATER THAN 70 FEET. QUANTITY AND SIZE SHALL BE "AS REQUIRED" TO SERVE AND CONTROL DEVICE(S) OR EQUIPMENT WITH A MAXIMUM VOLTAGE DROP OF THREE PERCENT. BRANCH CIRCUIT CONDUITS SHALL NOT CONTAIN MORE THAN THREE PHASE CONDUCTORS.
- 7. MINIMUM CONDUIT IN EXTERIOR AND UNDERGROUND LOCATIONS SHALL BE 1". MINIMUM CONDUIT FOR INTERIOR BRANCH CIRCUITS SHALL BE 3/4". CONDUITS FROM LUMINAIRES TO LOCAL USER CONTROL DEVICES (SWITCHES, OCCUPANCY SENSORS, ETC.) MAY BE 1/2" OR AS INDICATED IN SPECIFICATIONS.
- 8. PROVIDE ADDITIONAL CONDUCTOR FOR UNSWITCHED "HOT" TO LUMINAIRES WITH EMERGENCY POWER BATTERIES. PROVIDE AN ADDITIONAL UNSWITCHED "HOT" AND AN ADDITIONAL SWITCHED CONDUCTOR TO UL924 CONTROL MODULES OR GENERATOR TRANSFER DEVICES.
- 9. WIRING FOR EMERGENCY LIGHTING CIRCUITS OR OTHER EMERGENCY EQUIPMENT SHALL BE KEPT ENTIRELY INDEPENDENT OF ALL OTHER WIRING, AND SHALL MEET REQUIREMENTS OF NEC 700.10.
- 10. WHERE EQUIPMENT PART NUMBERS ARE SHOWN ON THESE PLANS THEY SHALL SUPERCEDE THE REQUIREMENTS OF THE SPECIFICATIONS.

11. PROVIDE DEDICATED NEUTRAL CONDUCTORS FOR ALL CONVENIENCE POWER

- AND LIGHTING BRANCH CIRCUITS.
- 12. ALL CONDUCTORS SIZED #10 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #12 AND SMALLER SHALL BE SOLID.
- 13. ALL 120V DUPLEX AND QUAD RECEPTACLES SHALL BE 20A RATED, AND TAMPER-RESISTANT TYPE. 14. RECEPTACLE DEVICES INSTALLED IN WET LOCATIONS OR INDICATED WITH A
- 'WP' SUBSCRIPT SHALL BE LISTED AS WEATHER RESISTANT TYPE, INSTALLED WITH A WEATHERPROOF WHILE IN USE COVER WITH A HOOD THAT IS LISTED AND IDENTIFIED AS "EXTRA DUTY", IN CONFORMANCE WITH NEC 406.9(B)(1).

E7.01 SHEET NUMBER FLAG NOTE INDICATOR GENERAL FIXTURE ANNOTATIONS



• EMERGENCY FIXTURE ANNOTATIONS









ELECTRICAL DISTRIBUTION PANELBOARD HG1 - PANEL CALLOUT

ELECTRICAL DISTRIBUTION EQUIPMENT MDP - MAIN DISTRIBUTION

DRY-TYPE TRANSFORMER GROUNDING ELECTRODE

o_____ EQUIPMENT DISCONNECT SWITCH $\Box \uparrow$

ONE-LINE CIRCUIT BREAKER 20/1 - OCP / POLES

 $\widehat{}$ ONE-LINE FUSED DISCONNECT/SWITCH 30/3 - OCP / POLES (I.E. 30A, 3-POLE)

ONE-LINE PREPARED SPACE ____ 250 AF _____ FRAME SIZE CONDUIT RISER, STUB UP/DOWN

ONE-LINE GENERATOR SET G

NO/NC CONTACTS 에는 에는

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TYPICAL MOUNTING HEIGHTS - GENERIC DETAIL SCALE: NOT TO SCALE

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INPUT LUMENS/ NOTES WATTS WATT EXISTING DECORATIVE PENDANT EXISTING DECORATIVE WALL MOUNTED SCONCE EXISTING RECESSED DOWNLIGHT EXISTING DECORATIVE PENDANT EXISTING SURFACE MOUNT EXISTING SURFACE MOUNT SPOT FLOOD EXISTING WALL MOUNTED LINEAR STRIP COVE LIGHT EXISTING EXIT SIGN EMERGENCY UNIT COMBO,





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(E) CDP -

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E07 ●▼(3X)

FO(4X) E08 (E) NLAB-35

(E) NLAB-35

EÓ8 FO (4X)

€___(3X) E07

(E) NLAB-37

(E) NLAB-37 E07 ●▼(3X)

(E) NLAB-39

(E) NLAB-39 (E) NLAB 6

 \sim EXISTING UTILITY XFMR < 2

(E) NLAB-1,3

(E) NLAB-1,3

a E02 (E) NLAB-14

a E02 (E) NLAB-14

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

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LIGHTING DEMOLITION PLAN - UPPER LEVEL

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s		CIRCUIT DESCRIPTI	ION		CC ⁻ NO
	SPRINKLER				2
	HEAT CONTROL				4
	BASEMENT LIGHTS				6
	BOILER				8
	SPARE				10
	SOUND SYSTEM				12
	ORGAN LTG				14
ORGAN BLOWER MOTOR					
					18
	ENTRY				20
	SACRISTY				22
	CONFESSION				24
	FLOOR RECEPTACLES	S			26
SPARE					
	HEAT CONTROL				30
	TOWER FLOODS				32
	CIRC PUMP				34
					36
	EXTERIOR RECEPTAC	CLES			38
	POST LIGHTS				40
		CONN. KVA	CALC. KVA		
чт	ING	24.70	30.88	(125%)	•
CE	PTACLES	2.16	2.16	(50%>10)	
RG	EST MOTOR	2.50	3.13	(125%)	
ΉE	R MOTORS	0.70	0.70	(100%)	
CH		0.00	0.00	(N/A)	
NT	INUOUS	1.30	1.63	(125%)	
NCONTINUOUS		0.82	0.82	(100%)	
AT	ING	0.80	0.80	(100%)	
NC	OIN/DIVERSE	0.00	0.00	(N/A)	
MF	PUTER	0.00	0.00	(100%)	
TE	RED DEMAND	0.00	0.00		
TA	L KVA	32.98	40.11		-
LAI	NCED PHASE AMPS	137.42	167.10		

PAN FED LOC	EL: (R) NLAB 6 (REVISED)	BUS AMPS: /AIN OCPD: /OUNTING: ENCLOSURE	225 MLO FLUSH : NEMA 1			VOL NEU LUG AIC:	TS: TRAL: S:	240/120V 100% STANDAI 10,000	7 2P 3W RD		
CCT NO.	CIRCUIT DESCRIPTION	NOTES	CCT OCPD	ŀ	KVA I		3	CCT OCPD	NOTES		CIRCU
1	MAIN 1 U LTG	а	20/1	0.20	0.50			20/1	b	SPRINKLER	
3	MAIN 1 L LTG	а	20/1			0.20	0.30	20/1	b	HEAT CONTROL	
5	MAIN 2 U LTG	а	20/1	0.20	1.20			20/1	b	BASEMENT LIGHTS	
7	MAIN 2 L LTG	а	20/1			0.20	0.80	20/1	b	BOILER	
9	MAIN 3 U LTG	а	20/1	0.20	0.01			20/1	b	SPARE	
11	MAIN 3 L LTG	а	20/1			0.20	0.80	20/1	b	SOUND SYSTEM	
13	MAIN 4 U LTG	а	20/1	0.20	0.78			20/1	а	ORGAN LTG	
15	MAIN 4 L LTG	а	20/1			0.20	1.25	20/2	b	ORGAN BLOWER MO	TOR
17	UNDER BALCONY LTG	а	20/1	0.21	1.25			1			
19	E TRAN U LTG	а	20/1			0.20	0.80	20/1	b	ENTRY	
21	E TRAN L LTG	а	20/1	0.20	0.80			20/1	b	SACRISTY	
23	W TRAN U LTG	а	20/1			0.20	0.80	20/1	b	CONFESSION	
25	W TRAN L LTG	а	20/1	0.20	0.72			20/1	b	FLOOR RECEPTACLE	S
27	SPOTS ALTAR LTG	b	20/1			0.50	0.01	20/1	b	SPARE	
29	SPOTS ALTAR LTG	b	20/1	0.50	0.50			20/1	b	HEAT CONTROL	
31	ARCH LTG	b	20/1			0.30	1.60	20/1	b	TOWER FLOODS	
33	ARCH LTG	b	20/1	0.30	0.35			20/2	b	CIRC PUMP	
35	FLOOR SPOTS LTG	b	20/1			0.50	0.35	1			
37	ST J SHRINE LTG	а	20/1	0.70	0.72			20/1	b	EXTERIOR RECEPTA	CLES
39	BLESSED VIRGIN MARY SHRINE LTG	b	20/1			0.50	0.80	20/1	b	POST LIGHTS	
NOTE	ES:	<u>.</u>		ΤΟΤΑ	L CONN	I. LOAD	(KVA)				CO
a.	EXISTING BRANCH CIRCUIT TO BE MODIFIED AS PART OF WORK.			A	4	E	3				12
b.	EXISTING BRANCH CIRCUIT (OVER-CURRENT PROTECTION) TO REMAIN AS PART OF EXISTING CONDITIONS.			9.	75	10	52		RECE	PTACLES	2.1
				TOTAL	CONN.	LOAD (AMPS)		LARG	EST MOTOR	2.5
				A	4	E	3		OTHE		0.7
				81.	.28	87	68		CONT	INUOUS	1.3
									NONC	ONTINUOUS	0.8
									NONC	OIN/DIVERSE	0.0
									COMF	PUTER	0.0
									METE	RED DEMAND	0.0
											20.
									BALA	NCED PHASE AMPS	84.

7

6

- A. EXISTING ONE-LINE DIAGRAM SHOWN IS FOR REFERENCE. ALL DISTRIBUTION EQUIPMENT SHOWN IS EXISTING TO REMAIN [UNLESS SPECIFICALLY NOTED OTHERWISE]. ONE-LINE DIAGRAM IS BASED ON RECORD DRAWINGS PROVIDED BY THE OWNER AND NON-DESTRUCTIVE FIELD OBSERVATION. CONTRACTOR TO VERIFY EXACT FIELD CONDITIONS PRIOR TO COMMENCING WITH ELECTRICAL WORK. NEW WORK INCLUDES PROVIDING NEW DISTRIBUTION EQUIPMENT TO PROVIDE NEW AND REVISED BRANCH CIRCUITRY FOR THE REMODEL AREAS.
- B. ALL CONDUCTORS SHALL BE COPPER, UNLESS DENOTED WITH (AL) FOR COMPACT STRANDED ALUMINUM. ALL GROUND CONDUCTORS SHALL BE COPPER.
- C. CONDUCTORS SHALL BE INSTALLED CONTINUOUS (POINT TO POINT) AND WITHOUT SPLICING, UNLESS OTHERWISE INDICATED. D. FOR CLARITY, BRANCH CIRCUITING IS NOT SHOWN ON ONE-LINE DIAGRAMS.
- SEE PANEL SCHEDULES. COORDINATE ALL ELECTRICAL UTILITY WORK WITH SERVING UTILITY. IT IS E. THE RESPONSIBILITY OF THE CONTRACTOR TO ADHERE TO THE PUBLISHED
- DOCUMENTS AND STANDARDS OF THE SERVING ELECTRICAL UTILITY. F. ALL DISTRIBUTION EQUIPMENT SHALL BE LABELED WITH THE FOLLOWING: - EQUIPMENT DESIGNATION

1 EXISTING UTILITY POLE MOUNTED TRANSFORMER FOR REFERENCE ONLY.

3 EXISTING UTILITY METER FOR REFERENCE ONLY. REFERENCE PLANS FOR

5 EXISTING DISTRIBUTION SHOWN IS PARTIAL ONLY FOR RELATED AREA OF WORK. NOT ALL EXISTING BREAKERS AND SPACES ARE SHOWN.

6 EXISTING PANEL LOAD TO BE REVISED AS PART OF WORK. REFERENCE PLANS FOR ADDITIONAL INFORMATION.

CONTRACTOR TO FIELD COORDINATE FOR EXACT AS BUILT INFORMATION AS

4 EXISTING UTILITY CT ENCLOSURE FOR REFERENCE ONLY. REFERENCE PLANS

REFERENCE PLANS FOR ADDITIONAL INFORMATION.

2> EXISTING UTILITY PRIMARY FOR REFERENCE ONLY.

- SOURCE FROM WHICH EQUIPMENT IS FED - VOLTAGE, PHASE, WIRING CONFIGURATION
- AIC RATING - ARC-FLASH HAZARD WARNING

FLAG NOTES

ADDITIONAL INFORMATION.

NEEDED.

FOR ADDITIONAL INFORMATION.

8

26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL A. SCOPE OF WORK: FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM AS INDICATED

- ON THE DRAWINGS AND IN THESE SPECIFICATIONS. B. STANDARDS, CODES AND REGULATIONS: COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, INTERNATIONAL BUILDING CODE, AND INTERNATIONAL FIRE CODE INCLUDING ALL STATE AND LOCAL AMENDMENTS TO THESE CODES AND THE OREGON ENERGY
- EFFICIENCY SPECIALTY CODE (OEESC). COMPLY WITH THE LATEST PUBLISHED VERSION OF THE NECA STANDARD OF INSTALLATION. C.DRAWINGS: THE DRAWINGS ARE DIAGRAMMATIC, NOT NECESSARILY SHOWING ALL OFFSETS OR EXACT LOCATIONS OF FIXTURES, EQUIPMENT, ETC. UNLESS SPECIFICALLY DIMENSIONED, REVIEW THE DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT FURNISHED BY OTHER CRAFTS BUT INSTALLED IN ACCORDANCE WITH THIS SECTION. BRING QUESTIONABLE OR OBSCURE ITEMS, APPARENT CONFLICTS BETWEEN PLANS AND SPECIFICATIONS, GOVERNING CODES OR UTILITIES REGULATIONS TO THE ATTENTION OF THE ARCHITECT, CODES, ORDINANCES, REGULATIONS MANUFACTURER'S INSTRUCTIONS OR STANDARDS TAKE PRECEDENCE WHEN THEY ARE MORE STRINGENT OR CONFLICT WITH THE DRAWINGS
- AND SPECIFICATIONS. D. RECORD DRAWINGS: MARK UP A CLEAN SET OF DRAWINGS AS THE WORK PROGRESSES TO SHOW THE DIMENSIONED LOCATION AND ROUTING OF ALL ELECTRICAL WORK WHICH WILL BECOME PERMANENTLY CONCEALED. SHOW ROUTING OF WORK IN PERMANENTLY CONCEALED BLIND SPACES WITHIN THE BUILDING. SHOW COMPLETE ROUTING AND SIZING OF ANY SIGNIFICANT REVISIONS TO THE SYSTEMS SHOWN. E. WORKMANSHIP: INSTALLATION OF ALL WORK SHALL BE MADE SO THAT ITS SEVERAL COMPONENT PARTS SHALL FUNCTION AS A WORKABLE SYSTEM COMPLETE WITH ALL ACCESSORIES NECESSARY FOR ITS OPERATION. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN
- ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. INSTRUCTIONS AND/OR INSTALLATION DRAWINGS AND IN ACCORDANCE WITH NECA STANDARDS. MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL CONFORM WITH APPLICABLE INDUSTRY STANDARDS, NEMA STANDARDS AND UNDERWRITERS LABORATORIES STANDARDS WHERE APPLICABLE. F. SUBMITTALS: PROVIDE MATERIAL AND EQUIPMENT SUBMITTALS CONTAINING A COMPLETE LISTING OF MATERIAL AND EQUIPMENT SHOWN ON THE DRAWINGS. INCLUDE CATALOG NUMBERS, WIRING DIAGRAMS, ROUGH-IN DIMENSIONS AND PERFORMANCE DATA FOR ALL MATERIAL AND
- EQUIPMENT. SUBMITTALS SHALL BE IN ELECTRONIC .PDF FORMAT, SEPARATE FROM WORK FURNISHED UNDER OTHER DIVISIONS. INDEX AND CLEARLY IDENTIFY ALL MATERIAL AND EQUIPMENT BY ITEM. NAME OR DESIGNATION USED ON THE DRAWINGS. SUBMITTAL REVIEW IS FOR GENERAL DESIGN AND ARRANGEMENT ONLY AND DOES NOT RELIEVE THE CONTRACTOR FROM ANY REQUIREMENTS OF THE CONTRACT DOCUMENTS. THE SUBMITTALS ARE NOT CHECKED FOR QUANTITY, DIMENSION, OR FOR PROPER OPERATION. WHERE DEVIATIONS OF A SUBSTITUTE PRODUCT OR SYSTEM PERFORMANCE HAVE NOT BEEN SPECIFICALLY NOTED IN THE SUBMITTAL BY THE CONTRACTOR, PROVISIONS OF A COMPLETE AND SATISFACTORY WORKING INSTALLATION IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. G.OPERATION AND MAINTENANCE MANUALS: PROVIDE OPERATION AND MAINTENANCE MANUALS FOR TRAINING OF THE OWNER'S PERSONNEL. DESCRIBE THE PROCEDURES NECESSARY TO OPERATE THE SYSTEM INCLUDING START-UP, OPERATION, EMERGENCY OPERATION AND SHUTDOWN PROVIDE INSTRUCTIONS AND A SCHEDULE OF PREVENTIVE MAINTENANCE IN TABULAR FROM FOR ALL ROUTINE CLEANING
- INSPECTION AND LUBRICATION WITH RECOMMENDED LUBRICANTS. PROVIDE INSTRUCTIONS FOR MINOR REPAIR OR ADJUSTMENTS REQUIRED FOR PREVENTIVE MAINTENANCE ROUTINES. PROVIDE MANUFACTURER'S DESCRIPTIVE LITERATURE INCLUDING APPROVED SHOP DRAWINGS COVERING DEVICES USED IN ANY CONTRACTOR-PROVIDED EQUIPMENT OR SYSTEMS WITH ILLUSTRATION. EXPLODED VIEWS, ETC. H. WARRANTY: THE CONTRACTOR SHALL GUARANTEE ALL WORK EXECUTED UNDER THIS CONTRACT TO BE FREE FROM DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM BENEFICIAL OCCUPANCY. ANY FAULTY MATERIALS OR WORKMANSHIP SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER DURING THE GUARANTEE PERIOD.
- I. PERMITS: SECURE AND PAY FOR ALL FEES, PERMITS, ETC. REQUIRED BY LOCAL AND STATE AGENCIES AND ALL LOCAL UTILITY COMPANIES. J. REFERENCE SYMBOLS: THE ELECTRICAL "LEGEND" ON THE DRAWINGS IS A STANDARDIZED VERSION, AND ALL SYMBOLS SHOWN MAY NOT BE USED. USE THE "LEGEND" AS A REFERENCE FOR THE SYMBOLS USED ON THE DRAWINGS.
- K. PENETRATION OF FIRE BARRIERS: ALL ELECTRICAL PENETRATIONS THROUGH FIRE RATED BARRIERS SHALL BE SEALED IN ACCORDANCE WITH NEC ARTICLE 300.21 AND THE FOLLOWING: 1. ALL HOLES OR VOIDS CREATED TO EXTEND ELECTRICAL SYSTEMS THROUGH FIRE RATED WALLS OR CEILING SHALL BE SEALED WITH AN ASBESTOS-FREE INTUMESCENT FIRE STOPPING MATERIAL CAPABLE OF EXPANDING 8 TO 10 TIMES WHEN EXPOSED TO TEMPERATURES 250
- DEGREES F OR HIGHER 2. MATERIALS SHALL BE SUITABLE FOR THE FIRE STOPPING OF PENETRATIONS MADE BY STEEL, GLASS, PLASTIC AND SHALL BE CAPABLE OF MAINTAINING AN EFFECTIVE BARRIER AGAINST FLAME, SMOKE AND GASES IN COMPLIANCE WITH THE REQUIREMENTS OF ASTM E814, UL 1479
- AND THE UL FIRE RESISTANCE DIRECTORY REQUIREMENTS FOR THROUGH-PENETRATION FIRESTOP DEVICES (XHCR). 3. THE RATING OF THE FIRE STOPS SHALL BE THE SAME AS THE TIME-RATED WALL OR CEILING ASSEMBLY.

4. INSTALL FIRE STOPPING MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

- 26 05 05 SELECTIVE DEMOLITION FOR ELECTRICAL A. DEMOLITION DRAWINGS ARE BASED ON CASUAL FIELD OBSERVATION [AND EXISTING RECORD DRAWING]. REPORT DISCREPANCIES TO [OWNER] ARCHITECT/ENGINEER BEFORE DISTURBING THE EXISTING INSTALLATION. DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL PROVIDE TEMPORARY WIRING AND CONNECTIONS TO MAINTAIN ALL EXISTING FLECTRICAL SYSTEMS (TELEPHONE FIRE ALARM, LIGHTING, ELECTRICAL SERVICE, ETC.) IN SERVICE DURING CONSTRUCTION. DISABLE SYSTEMS ONLY TO MAKE SWITCHOVERS AND CONNECTIONS B. OBTAIN PERMISSION FROM OWNER AT LEAST 24 HOURS BEFORE PARTIALLY OR COMPLETELY DISABLING SYSTEM. MINIMIZE OUTAGE DURATION
- AND MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN AREAS ADJACENT TO WORK AREA. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN SUCH OPERATIONS. C.REMOVE, RELOCATE AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION. REMOVE ABANDONED WIRING TO SOURCE OF SUPPLY REMOVE EXPOSED ABANDONED CONDUIT INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CEILING FINISHES. WHERE
- ABANDONED CONDUIT ENTERS EXISTING SURFACES TO REMAIN, CUT CONDUIT FLUSH WITH WALLS AND FLOORS, AND PATCH SURFACES DISCONNECT ABANDONED OUTLETS AND REMOVE DEVICES. REMOVE ABANDONED OUTLETS IF CONDUIT SERVICING THEM IS ABANDONED AND REMOVED. PROVIDE BLANK COVER FOR ABANDONED OUTLETS WHICH ARE NOT REMOVED. D. DISCONNECT AND REMOVE ABANDONED PANELBOARDS AND DISTRIBUTION EQUIPMENT. DISCONNECT AND REMOVE ELECTRICAL DEVICES AND
- EQUIPMENT SERVING UTILIZATION EQUIPMENT THAT HAS BEEN REMOVED. DISCONNECT AND REMOVE ABANDONED LUMINAIRES. REMOVE BRACKETS, STEMS, HANGERS AND OTHER ACCESSORIES. REPAIR ADJACENT CONSTRUCTION AND FINISHES DAMAGED DURING DEMOLITION AND EXTENSION WORK. MAINTAIN ACCESS TO EXISTING ELECTRICAL INSTALLATIONS WHICH REMAIN ACTIVE.

26 05 19 - WIRE AND CABLE A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION.

- B. MATERIALS: 1. ALL CONDUCTORS SHALL BE COPPER WITH TYPE XHHW, THWN, THW OR THHN INSULATION. MINIMUM BRANCH CIRCUIT CONDUCTOR SIZE SHALL BE 12 AWG. MINIMUM CONTROL CIRCUIT CONDUCTOR SIZE SHALL BE #18 AWG. 2. CONTROL CIRCUITS SHALL BE COPPER, STRANDED CONDUCTOR, 600V INSULATION, THHN/THWN, MINIMUM SIZE 18 AWG.
- 3. TYPE MC CABLE: SOLID COPPER CONDUCTOR, 600 VOLT THERMOPLASTIC INSULATION, RATED 90° C, INSULATED GREEN GROUNDING CONDUCTOR AND GALVANIZED STEEL ARMOR OVER MYLAR MC CABLE LISED FOR FIRE ALARM WIRING SHALL BE COLORED RED AND LISTED FOR FIRE ALARM USE. MC CABLE UTILIZED IN PATIENT CARE AREAS SHALL QUALIFY AS AN EQUIPMENT GROUNDNG CONDUCTOR IN ACCORDANCE WITH NEC 250.118. C. INSTALLATION:
- 1. COLOR CODE WIRES BY LINE OR PHASE: 120/208V CONDUCTORS BLACK, RED, BLUE, AND WHITE. 2. DO NOT SHARE NEUTRAL CONDUCTORS. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH BRANCH CIRCUIT THAT REQUIRES A
- NFUTRAI 3. USE PROPERLY SIZED INSULATED SPRING WIRE CONNECTORS WITH PLASTIC CAPS FOR ALL CONDUCTORS #8 AWG AND SMALLER. TERMINATE
- #6 AWG AND LARGER CONDUCTORS WITH CRIMP OR COMPRESSION TYPE CONNECTORS INSTALLED WITH TOOL RECOMMENDED BY CONNECTION MANUFACTURER AND INSULATE WITH PROPERLY SIZED 600 VOLT RATED HEAT SHRINK TUBING 4. UNLESS OTHERWISE NOTED, EQUIPMENT WITH CIRCUIT AND PANEL IDENTIFICATION ARE 3#12 AWG. 120V CIRCUITS GREATER THAN 75 FEET IN LENGTH SHALL BE INCREASED IN SIZE TO #10 AWG
- 5. INSTALLATION SCHEDULE: BUILDING WIRE IN RACEWAYS AT ALL LOCATIONS UNLESS OTHERWISE NOTED. PROVIDE XHHW-2 FOR FEEDERS AND IN EXTERIOR LOCATIONS. TYPE MC CABLE MAY BE USED FOR BRANCH CIRCUIT WIRING IN DRY, INTERIOR, CONCEALED LOCATIONS OTHER THAN
- HOMERUNS. HOMERUNS SHALL BE BUILDING WIRE IN RACEWAY 6. AT THE CONTRACTOR'S OPTION, PORTIONS OF THE FIRE ALARM WIRING IN DRY, CONCEALED LOCATIONS MAY BE INSTALLED IN FIRE ALARM METAL CLAD CABLE.

26 05 26 - GROUNDING AND BONDING A. SUBMITTALS: SUBMIT PRODUCT DATA FOR GROUND RODS.

PLUMBING AND FUEL SYSTEMS

- B. MATERIAL: SOLID GROUND RODS: COPPER-ENCASED STEEL, 3/4 INCH DIAMETER, MINIMUM LENGTH 10 FEET. C.INSTALLATION
- 1. PROVIDE A SEPARATE, INSULATED EQUIPMENT GROUNDING CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDERS. TERMINATE EACH END ON A GROUNDING LUG, BUS, OR BUSHING
- 2. MECHANICAL CONNECTORS: NON-REVERSIBLE CRIMP TYPE LUGS ONLY. USE FACTORY MADE COMPRESSION LUG FOR ALL TERMINATIONS. FOR
- TELECOMMUNICATION SYSTEMS USE COPPER, COPPER ALLOY, OR TIN-PLATED COPPER, NON-REVERSIBLE LONG BARREL CRIMP TYPE BOLT LUGS WITH TWO BOLT TONGUES FOR 6 AWG OR LARGER CONDUCTORS. CRIMP TYPE ONE HOLE FOR CONDUCTORS SMALLER THAN 6 AWG. 3. BOND TOGETHER SYSTEM NEUTRALS, SERVICE EQUIPMENT ENCLOSURES, EXPOSED NON-CURRENT CARRYING METAL PARTS OF ELECTRICAL EQUIPMENT, METAL RACEWAY SYSTEMS, GROUNDING CONDUCTOR IN RACEWAYS AND CABLES, RECEPTACLE GROUND CONNECTORS, AND

26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION

- B. MATERIAL: SUPPORT CHANNEL SHALL BE GALVANIZED OR PAINTED STEEL. HARDWARE SHALL BE CORROSION RESISTANT
- C.INSTALLATION: EQUIPMENT WEIGHING MORE THAN 50 POUNDS SHALL BE ADEQUATELY ANCHORED TO THE BUILDING STRUCTURE TO RESIST LATERAL EARTHQUAKE FORCES. PROVIDE SAFETY CHAINS FOR LIGHT FIXTURES, SUPPORTED FROM T-BAR OR OTHER CEILING SUSPENSION SYSTEM, CAPABLE OF SUPPORTING A MINIMUM OF 200 POUNDS. ATTACH SAFETY CHAINS AT EACH CORNER OF FIXTURE CONNECTED SUCH THAT FIXTURE WILL NOT DROP BELOW A HEIGHT OF 7'-6" IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE.

26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION. SUBMIT PRODUCT DATA FOR FLOORBOXES.

- **B. MATERIALS** 1. RIGID STEEL CONDUIT: ANSI C80.1. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; THREADED TYPE WITH INSULATED THROAT BUSHINGS, MATERIAL TO MATCH CONDUIT.
- 2. INTERMEDIATE METAL CONDUIT (IMC): GALVANIZED STEEL. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; USE FITTINGS AND CONDUIT BODIES SPECIFIED ABOVE FOR RIGID STEEL CONDUIT.
- 3. ELECTRICAL METALLIC TUBING CONDUIT (EMT): ANSI C80.3. GALVANIZED TUBING. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON, COMPRESSION TYPE OR SET SCREW FITTINGS WITH INSULATED THROAT BUSHINGS. DIE-CAST FITTINGS ARE NOT ACCEPTABLE. MAXIMUM SIZE SHALL BE 2". PROVIDE FACTORY ELBOWS ON SIZES 1-1/2" AND LARGER.
- 4. FLEXIBLE METAL CONDUIT: FS WW-C-566; STEEL, FULL WALL THICKNESS. REDUCED WALL FLEXIBLE METAL CONDUIT IS NOT ACCEPTABLE. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE
- NOT ACCEPTABLE. 5. LIQUIDTIGHT FLEXIBLE CONDUIT: FLEXIBLE METAL CONDUIT WITH PVC JACKET. FITTINGS AND CONDUIT BODIES: ANSI/NEMA FB 1; STEEL OR MALLEABLE IRON WITH INSULATED THROAT BUSHINGS. DIE CAST FITTINGS ARE NOT ACCEPTABLE.
- 6. RIGID NONMETALLIC CONDUIT: NEMA TC 2; SCHEDULE 40 PVC, RATED FOR 90° C CABLE. 7. PROVIDE GALVANIZED OR CADMIUM PLATED, ONE PIECE PRESSED STEEL OUTLET BOXES 4 INCH SQUARE OR OCTAGONAL, 1-1/2 INCHES DEEP
- MINIMUM SIZE FOR USE IN INTERIOR AREAS. 8. FOR TELECOMMUNICATIONS SYSTEMS, OUTLET BOXES SHALL BE 4 INCHES SQUARE, 2-1/4 INCHES DEEP MINIMUM. 9. PROVIDE CAST ALUMINUM OR FERALLOY TYPE BOXES WITH GASKETED COVER, THREADED HUBS AND NEMA 3R RATING FOR USE IN EXTERIOR

OR WET LOCATIONS. C INSTALLATION. 1. CONDUIT SHALL BE ROUTED CONCEALED EXCEPT WHERE REQUIRED FOR EQUIPMENT CONNECTIONS, UNLESS OTHERWISE NOTED.

- 2. INSTALL CONDUIT FOR ALL SYSTEMS UNLESS OTHERWISE NOTED: 2.1. INDOOR: 3/4 INCH MINIMUM SIZE, EXCEPT CONDUIT FOR SPECIAL SYSTEMS SHALL BE 3/4 INCH MINIMUM
- 2.2. OUTDOOR: 1 INCH MINIMUM SIZE. 3. IN SLAB ABOVE GRADE, EXPOSED OUTDOOR LOCATIONS, WET INTERIOR LOCATIONS, AND FEEDERS SHALL BE RIGID STEEL CONDUIT OR
- INTERMEDIATE METAL CONDUIT. BELOW SLAB MAY BE NON-METALLIC PVC CONDUIT 4. EXPOSED DRY INTERIOR LOCATIONS SHALL BE RIGID STEEL CONDUIT OR INTERMEDIATE METAL CONDUIT. ELECTRICAL METALLIC TUBING MAY BE USED EXPOSED WHEN INSTALLED ON THE CEILING, A MINIMUM OF TEN FEET ABOVE THE FLOOR OR WHERE NOT SUBJECT TO PHYSICAL
- DAMAGE. EMT MAY ALSO BE USED FOR CONCEALED, DRY, INTERIOR LOCATIONS. 5. PULL, JUNCTION, AND SPLICE BOXES SHALL BE SIZED AND INSTALLED PER THE NATIONAL ELECTRICAL CODE.
- 6. MOTOR AND EQUIPMENT CONNECTIONS SHALL BE SHORT EXTENSIONS OF FLEXIBLE METAL CONDUIT TO ALLOW FOR VIBRATION. LIQUIDTIGHT FLEXIBLE CONDUIT AND FITTINGS SHALL BE USED FOR THESE CONNECTIONS IN DAMP OR WET LOCATIONS. 7. ALL CONDUIT FOR THE TELECOMMUNICATIONS DISTRIBUTION SYSTEM SHALL BE INSTALLED WITH NO MORE THAN THREE 90-DEGREE BENDS
- BETWEEN PULLBOXES. PULL BOXES SHALL NOT BE USED IN LIEU OF CONDUIT BENDS. CONDULETS (LB FITTINGS) SHALL NOT BE INSTALLED IN ANY TELECOMMUNICATIONS RACEWAY.
- 8. PROVIDE OUTLET BOXES AS SHOWN ON THE DRAWINGS, AND AS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, DEVICE INSTALLATION AND CODE COMPLIANCE. 9. DO NOT INSTALL BOXES BACK-TO-BACK IN WALLS. PROVIDE A MINIMUM 6 INCH SEPARATION FOR MINIMUM SOUND TRANSMISSION.
- 10. USE MULTIPLE-GANG BOXES WHERE MORE THAN ONE DEVICE ARE MOUNTED TOGETHER; DO NOT USE SECTIONAL BOXES. 11. SUPPORT BOXES INDEPENDENTLY OF CONDUIT
- 12. COORDINATE MOUNTING HEIGHTS AND LOCATIONS OF OUTLETS MOUNTED ABOVE COUNTERS, BENCHES AND BACKSPLASHES.

B. MATERIALS

B. MATERIAL:

C.INSTALLATION:

26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS A. SUBMITTALS: NONE REQUIRED FOR THIS SECTION

1. NAMEPLATES: ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON A BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED TO IDENTIFY ALL FLECTRICAL DISTRIBUTION AND CONTROL FOUIPMENT AND LOADS SERVED 2. TAPE LABELS: ADHESIVE TAPE LABELS, WITH 3/16 INCH BOLD BLACK LETTERS ON CLEAR BACKGROUND MADE USING DYMO RHINOPRO 5000 OR EQUAL LABEL PRINTER.

3. WIRE AND CABLE MARKERS: CLOTH MARKERS, SPLIT SLEEVE OR TUBING TYPE. C.INSTALLATION:

1. GEAR: PROVIDE ENGRAVED THREE-LAYER LAMINATED PLASTIC NAMEPLATES WITH WHITE LETTERS ON A BLACK BACKGROUND TO IDENTIFY ALL ELECTRICAL DISTRIBUTION, CONTROL EQUIPMENT, LOADS SERVED, AND LOW-VOLTAGE SYSTEM PANELS. 2. CONDUITS: MARK ALL CONDUITS ENTERING OR LEAVING PANELBOARDS WITH INDELIBLE BLACK MAGIC MARKER WITH THE CIRCUIT NUMBERS OF THE CIRCUITS CONTAINED INSIDE LABEL FEEDER CONDUITS AND SPARE CONDUITS AT EACH FND WITH SOURCE AND TERMINATION POINT 3. JUNCTION BOXES: MARK ALL CIRCUIT NUMBERS OF WIRING ON ALL JUNCTION BOXES WITH SHEET STEEL COVERS. MARK WITH INDELIBLE BLACK MARKER. ON EXPOSED JUNCTION BOXES IN PUBLIC AREAS, MARK ON INSIDE OF COVER. MARK ALL FIRE ALARM SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS WITH "FA." MARK WITH INDELIBLE RED MARKER. MARK ALL OTHER SPECIAL SYSTEM JUNCTION BOXES WITH SHEET STEEL COVERS

4. WIRE IDENTIFICATION: PROVIDE WIRE MARKERS ON EACH CONDUCTOR IN PANELBOARD GUTTERS, PULL BOXES, OUTLET AND JUNCTION BOXES, AND AT LOAD CONNECTION. MARKERS SHALL BE LOCATED WITHIN ONE INCH OF EACH CABLE END. EXCEPT AT PANELBOARDS, WHERE MARKERS FOR BRANCH CIRCUIT CONDUCTORS SHALL BE VISIBLE WITHOUT REMOVING PANEL DEADERONT 5. DEVICE PLATES: LABEL EACH RECEPTACLE DEVICE PLATE OR POINT OF CONNECTION DENOTING THE PANELBOARD NAME AND CIRCUIT NUMBER. INSTALL LABEL ON THE TOP OF EACH PLATE.

26 24 16 - PANELBOARDS A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

1 MANUFACTURERS' SQUARE D 2. PROVIDE DEAD-FRONT CIRCUIT BREAKER PANELBOARDS WITH BUS SIZE, SHORT CIRCUIT RATING, NUMBER AND SIZE OF BRANCH CIRCUITS AS SHOWN ON THE DRAWINGS. BUSSING SHALL BE COPPER. CABINETS SHALL BE 6 INCHES DEEP BY 20 INCHES WIDE MINIMUM. PROVIDE WITH FLUSH OR SURFACE FRONTS, AS NOTED ON THE DRAWINGS, WITH CONCEALED TRIM CLAMPS, CONCEALED HINGE AND FLUSHLOCK. FINISH IN MANUFACTURER'S STANDARD GRAY ENAMEL. MOLDED CASE CIRCUIT BREAKERS SHALL BE BOLT-ON THERMAL MAGNETIC TRIP TYPE WITH COMMON TRIP HANDLE FOR ALL POLES. PROVIDE UL CLASS A GROUND FAULT INTERRUPTER CIRCUIT BREAKERS FOR GECI CIRCUITS AS INDICATED ON THE DRAWINGS C. INSTALLATION:

1. INSTALL PANELBOARDS PLUMB WITH TOP OF CABINET 6'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED ON THE DRAWINGS.

2. PROVIDE TYPED CIRCUIT DIRECTORIES FOR EACH PANELBOARD 3. ALL PANELBOARDS SHALL HAVE SIGNAGE FOR ARC HAZARD INSTALLED. THE MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED PERSONNEL BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT. AT A MINIMUM THE 3-LINE SIGNAGE SHALL STATE THE FOLLOWING: WARNING - ARC FLASH AND SHOCK HAZARD - APPROPRIATE PPE REQUIRED.

26 27 26 - WIRING DEVICES A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL. B. MATERIALS:

1. WALL SWITCHES: SWITCHES FOR LIGHTING CIRCUITS SHALL BE NEMA WD1 AND FEDERAL SPECIFICATION FS W-S-896 AC GENERAL USE SNAP SWITCH WITH TOGGLE HANDLE. BATED 20 AMPERES AND 120-277 VOLTS AC. HANDLE: WHITE NYLON 2. RECEPTACLES: CONVENIENCE AND STRAIGHT BLADE RECEPTACLES SHALL BE NEMA AND FEDERAL SPECIFICATION FS W-C-596, TYPE 5-20R, WHITE NYLON FACE. SPECIFIC USE RECEPTACLES SHALL BE NEMA WD1 OR WD5; AS REQUIRED TO MATCH LOAD SERVED, BLACK PHENOLIC FACE. GFCI RECEPTACLES SHALL BE 20A, DUPLEX CONVENIENCE RECEPTACLE WITH INTEGRAL CLASS 'A' GROUND FAULT CURRENT INTERRUPTER AND LOCKOUT FEATURE. TAMPERPROOF RECEPTACLES SHALL BE UL 489. RECEPTACLES INSTALLED IN EXTERIOR LOCATIONS SHALL BE RATED WEATHER RESISTANT. CONTROLLED RECEPTACLES SHALL BE IDENTIFIED AS CONTROLLED. 3. WALL PLATES: DECORATIVE COVER PLATES IN FINISHED AREAS SHALL BE 430 OR 302 DIECAST ALUMINUM STEEL. WEATHERPROOF COVER PLATES SHALL BE GASKETED DIECAST ALUMINUM WITH HINGED GASKETED DEVICE COVERS. DEVICE PLATES FOR WET LOCATION RECEPTACLES SHALL BE "IN USE" TYPE. PROVIDE 1/2 INCH RAISED. SQUARE. GALVANIZED OR CADMIUM PLATED. PRESSED STEEL COVER PLATE SUPPORTING DEVICES INDEPENDENT OF THE OUTLET BOX FOR ALL EXPOSED WORK.

1. DEVICES SHALL BE RECESSED WITHIN EXISTING WALLS. CUT AND PATCH EXISTING WALLS AS REQUIRED TO FULLY RECESSED CONDUIT AND 2. UNLESS OTHERWISE NOTED ON THE DRAWINGS, INSTALL RECEPTACLES 18 INCHES ABOVE FINISH FLOOR, 4 INCHES ABOVE COUNTERS AND BACKSPLASHES WITH GROUNDING POLE ON BOTTOM. UNLESS OTHERWISE NOTED DIMENSIONS ARE TO CENTERLINE OF OUTLET. 2 INSTALL WALL SWITCHES AND DIMMERS 48 INCHES ABOVE FLOOR, OFF POSITION DOWN. 3. INSTALL GALVANIZED STEEL PLATES ON OUTLET BOXES AND JUNCTION BOXES IN UNFINISHED AREAS, ABOVE ACCESSIBLE CEILINGS, AND ON SURFACE-MOUNTED OUTLETS

4. INSTALL RECEPTACLES IN EXTERIOR LOCATIONS FLUSH WITH WALL

26 28 19 - ENCLOSED SWITCHES A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL.

B. MATERIALS: 1. MANUFACTURERS: SQUARE D.

6. LIGHT POLES: AS SCHEDULED ON PLANS

26 05 29

2. FUSIBLE SWITCH ASSEMBLIES: NEMA KS 1: TYPE HD: QUICK-MAKE, QUICK-BREAK, HEAVY-DUTY LOAD INTERRUPTER ENCLOSED KNIFE SWITCH WITH EXTERNALLY OPERABLE HANDLE INTERLOCKED TO PREVENT OPENING FRONT COVER WITH SWITCH IN ON POSITION. HANDLE LOCKABLE IN OFF POSITION, ENCLOSURE SHALL BE NEMA KS 1: TYPE 1, 3R OR 4 AS INDICATED ON DRAWINGS, FUSES SHALL BE CLASS RK1: RK5: DUAL ELEMENT, CURRENT LIMITING, TIME DELAY, ONE-TIME FUSES, 600V, WITH AN INTERRUPTING RATING OF 200,000 RMS AMPERES. 3. NONFUSIBLE SWITCH ASSEMBLIES: SAME CRITERIA AS ABOVE WITHOUT THE FUSES.

C. INSTALLATION 1. INSTALL DISCONNECT SWITCHES IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FIELD LOCATE FINAL LOCATION OF DISCONNECTS TO ALLOW READY ACCESS AND NEC 110.26 WORKING CLEARANCES WHERE APPLICABLE. 2. ALL FUSED DISCONNECTS SHALL HAVE SIGNAGE FOR ARC HAZARD INSTALLED. THE MARKING SHALL BE LOCATED TO BE CLEARLY VISIBLE TO QUALIFIED PERSONNEL BEFORE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT. AT A MINIMUM THE 3-LINE SIGNAGE SHALL STATE THE FOLLOWING: WARNING - ARC FLASH AND SHOCK HAZARD - APPROPRIATE PPE REQUIRED

26 50 00 - LIGHTING FIXTURES A. SUBMITTALS: SUBMIT PRODUCT DATA FOR APPROVAL. B. MATERIALS:

1 LUMINAIRES' PROVIDE AND INSTALL ALL LIGHTING FOUIPMENT OR APPROVED FOLIAL AS SHOWN ON THE DRAWINGS AND DESCRIBED IN THE "FIXTURE SCHEDULE". PROVIDE LIGHTING EQUIPMENT COMPLETE, WIRED, ASSEMBLED, WITH PROPER FLANGES, MOUNTING SUPPORTS HARDWARE, ETC. ALL LIGHTING EQUIPMENT INSTALLED IN LAY-IN TYPE CEILINGS SHALL BE PROVIDED WITH SAFETY CHAINS, CAPABLE OF SUPPORTING 200 POUNDS, SECURELY FASTENED TO THE LIGHT FIXTURE AND THE BUILDING STRUCTURE SO THAT NO PART OF THE FIXTURE WILL DROP BELOW A HEIGHT OF 7'-6" ABOVE THE FLOOR IN THE EVENT OF A CEILING SUSPENSION SYSTEM FAILURE. 2. LED DRIVERS: PROVIDE UL LISTED POWER SUPPLY AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS. POWER SUPPLY SHALL BE INTEGRAL TO THE LUMINAIRE UNLESS OTHERWISE NOTED ON THE PLANS. POWER SUPPLY SHALL OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS AND SHALL BE LISTED FOR STARTING AND OPERATING THE LAMPS AT 75F AVFRAGE INDOOR TEMPERATURE AND -20F WHERE INSTALLED OUTDOORS.

3. LED DIMMING DRIVERS: PROVIDE UL LISTED 0-10V DIMMING BALLAST AS RECOMMENDED BY THE LED FIXTURE MANUFACTURER FOR OPERATION OF THE SPECIFIED LED LAMPS, FULLY COMPATIBLE WITH THE DIMMING SYSTEM OR DIMMING SWITCH CONTROLLING THE FIXTURE. DRIVER SHALL BE INTEGRAL TO THE FIXTURE AND CAPABLE OF DIMMING THE LUMINAIRE TO 10% OUTPUT MINIMUM UNLESS OTHERWISE SCHEDULED ON THE PLANS. POWER SUPPLY SHALL BE DUAL VOLTAGE (120/277V) WHERE AVAILABLE AND OPERATE AT THE SUPPLY VOLTAGE INDICATED ON THE PLANS.

4. LED LAMPS: UNLESS OTHERWISE SCHEDULED ON THE PLANS, PROVIDE NOMINAL 4000 K, WITH MINIMUM 75CRI AND A MINIMUM L70 LAMP LIFE OF 50.000 HOURS. 5. LED EMERGENCY DRIVERS: UL LISTED, FACTORY INSTALLED, SELF-CONTAINED EMERGENCY POWER SUPPLY AS RECOMMENDED BY THE LUMINAIRE MANUFACTURER, WITH MINIMUM WATTAGE, VOLTAGE AND AMPERE RATINGS SUITABLE OF AUTOMATICALLY OPERATING THE SPECIFIED FIXTURE AT 90 MINUTES UNDER LOSS OF UTILITY POWER. 120/277V INPUT.

C. INSTALLATION: 1. PENDANT AND TRACK LUMINARIES SHALL BE INSTALLED PLUMB AND LEVEL.

2. INSTALL RECESSED LUMINAIRES TO PERMIT REMOVAL FROM BELOW. USE PLASTER FRAMES IN HARD CEILINGS. 3. SUPPORT LUMINARIES IN SUSPENDED CEILINGS FROM STRUCTURE ABOVE USING A MINIMUM OF (4) ANCHORS IN ACCORDANCE WITH SECTION

4. PROVIDE LUMINAIRE DISCONNECTING MEANS IN BALLAST CHANNEL OF EACH LIGHT FIXTURE TO MEET 2014 NEC 410.130(G) REQUIREMENTS. WHERE THE LUMINAIRE IS FED FROM A MULTI-WIRE BRANCH CIRCUIT, PROVIDE MULTI-POLE DISCONNECT TO SIMULTANEOUSLY BREAK ALL SUPPLY CONDUCTORS TO THE BALLAST, INCLUDING THE GROUNDED CONDUCTOR. 5. LUMINAIRE POLE BASES: SIZE AND CONSTRUCTED AS INDICATED ON DRAWINGS. PROJECT ANCHOR BOLTS 2 INCHES MINIMUM ABOVE BASE.

INSTALL POLES ON BASES PLUMB; PROVIDE DOUBLE NUTS FOR ADJUSTMENT AND POLE BASE COVERS. AFTER ADJUSTING OF POLE TO BE VERTICAL, PACK GROUT UNDER POLE BASE TO PROVIDE FULL CONTACT WITH THE FOUNDATION. 6. AIM ALL LUMINAIRES AND EMERGENCY LIGHTING UNITS THAT HAVE ADJUSTABLE LAMPS OR LENSES. 7. TEST OPERATION OF ALL EMERGENCY LIGHTS BY SIMULATING A POWER OUTAGE FOR 90 MINUTES. CONFIRM THAT ALL EMERGENCY LIGHTING IS

OPERATIONAL AND MEETS THE REQUIREMENTS OF NEC 700.12(A). CORRECT ALL DEFICIENCIES PRIOR TO SUBSTANTIAL COMPLETION.

