-	Ĺ	E	С	Ţ	R	į	С	A	Ĺ			S	Ρ	E	С
2)	FIT	TINGS AND A	CCESSOR	RIES:											DE FOR R
	a.	RIGID STEEL CAST NOT P		•	PED, STEI	EL OR M.	ALLEABLE	RON. ZIN	IC DIE					·	IS OR OPE TESTS OF
	Ь.	ELECTROME ELBOWS, 2			1PRESSIC	ON TYPE.	GALVANI	ZED RIGID	STEEL						FINAL DIST SHALL BE
	C.	FLEXIBLE ME			NGLE MEI	OGE TYP	E WITH INS	SULATED T	HROAT.	1		RE AND CAB			
	d.	BUSHINGS: M	1ETALLIC	INSULATED	TYPE.						A.	PROVIDE M BE AMG EX			MPLETE MI
3)	ВС	XES:									B.	CONDUCTO			•
DEVICES OCTAGO BOXES I FIXTURE SWITCHE FIXTURE BLANK (a.	a. OUTLET BOXES: EXCEPT AS OTHERWISE REQUIRED BY CONSTRUCTION, DEVICES OR WIRING, BOXES SHALL BE STAMPED STEEL, 4 IN. SQUARE OR OCTAGON FOR FIXTURES. BOXES ABOVE CEILING SHALL BE 1-1/2 IN. DEEP. BOXES IN CEILING OR SLAB SHALL BE 3 IN. DEEP. BOXES IN WALL FOR								MINIMUM. A' MINIMUM. A' MINIMUM.	T 120 VOL T 265 VOL	TS AND O .TS AND C	VER 100 F VER 200		
	FIXTURES SH SWITCHES SH FIXTURE STU BLANK COV SEPARATION	HALL BE DS MHER ER. OFFS	1-1/2 IN. DE E REQUIREI	EP. FURN D. MITHOI	IISH MITH JT FIXTUR	RAISED (RE OR DE	OVERS AN	ND NISH			CONTROL , 120 VOLTS OTHER VOI VOLTAGE I	AND OVE _TAGES AN	R 200 FT ND PHASE	CIRCUIT LE	
	Ь.	JUNCTION AN COVERS, EX CABLES. LO PROVIDE BA VOLT AND 2 WIRING. FLO	ND PULL E (CEPT AS (CATIONS ARRIERS 265/460)OR BOXE	NOTED. FU SHALL BE IN NEW AND VOLT WIRIN ES SHALL E	RNISH MI AS NOTE RENOV G AND E E SUITAB	TH INSUL, D OR RE ATED BO ETWEEN LE FOR	ATED SUP QUIRED A XES BETM EMERGEN CONDUIT	PORTS FO ND ACCES NEEN 120/2 ICY AND N AND DEVIC	OR SSIBLE. 208 ORMAL CES			INSULATION STANDARD CIRCUITS E: LOCATED II AMBIENT TE	SHALL BE S. TYPE TH KCEPT AS N WIRING (EMPERATU	E RUBBER HW OR THI NOTED. T CHANNELS RES OVER	AND THER AN SHALL YPE SFF-2 OF CONTI R 90 DEG.
		NOTED. RAIS FLOOR FITT OR OTHER A OUTLETS SH TELEPHONE POWER AS N	ING. TELE AS NOTED ALL BE H AND FLUS	PHONE: BU D. INCREASE UBBELL #B SH DUAL FL	SHED HO E SIZE TC 2414 SER AP COVI	LE. POW SUIT AS RIES WITH ER WITH 1	ER: DUPLE NECESSA FLUSH FL DUPLEX R	X RECEPT RY. FLUSH .00R FITT ECEPTACL	ACLE			FOR UNGRO POLYETHYL ARMORED LOCATIONS CONDUIT, S	ENE INSUL CABLE (B 5, HUNG CE	ATION (TY X) MAY BE IILINGS, AN	PE XHHW). E UTILIZED ND BLOCK
	C.	PROVIDE RA RACEWAYS							<i>.</i>		E.	COLOR CC	DING SHA	LL BE AS	FOLLOWS:
		PROVIDE RA OR WALL BR RACEWAYS CLAMPS AT SLAB. FOR TO HUBBELL FLOOR FITT DUPLEX REC BETWEEN PC ON UNDERSI FLOOR.	ACEWAY S RACKETS AND CON EACH FLO THROUGH FIRE RA INGS TELI CEPTACLE OWER ANI	SUPPORT U . PROVIDE INECTED TO OOR LEVEL I-THE-FLOO .TED POKE- EPHONE SH E OR OTHER O TELEPHO	TILIZING (U-BOLTS) ACCEPT OF RISE OR SYSTE THROUGH ALL BE E ALL BE E ALL BE TO ALL BE TO ALL BE TO	ZEILING T AT EACH TABLE SL ER RACE MS, UTILI H-FLOOR BUSHED H TED. PRC PARTMEN	RAPEZE, S H FLOOR I JPPORTS. WAYS ANI ZE AN ASS R BOX SYS HOLE AND IVIDE SEP TS. PROV	STRAP HAI LEVEL OF PROVIDE RESTING SEMBLY SI STEM. FOR POWER S ARATION I IDE JUNCT	RISER RISER ON IMILAR ABOVE HALL BE BARRIER ION BOX			RED FO BLUE FO 2) 265/46 BROWN ORANG YELLON 3) NEUTRA	FOR A PH OR B PHAS OR C PHA O VOLT S I FOR A PH E FOR B I N FOR C F	HASE SE YSTEM: HASE PHASE HASE HASE	ZE WHITE O ZE GREEN (
		SECURE ALL SPACING OF METALLIC R SPACING SH	SUPPOR	RTS SHALL I AND AS RE	3E A MINI QUIRED F	MUM OF FOR NON	10 FT ON IMETALLIC	CENTER F	FOR Y.	,		REQUES		SION TO C	BLE IS NO ⁻ DVERLAP (
		NOTED FOR TOGGLE BC CONCRETE , FRAMEWORI METAL DECI	NLTS ON H AND BRIC K, MOOD	HOLLOW MA CK, MACHINI SCREMS O	SONRY, ESCREM N MOOD	EXPANSI 5 ON ME , AND PA	ON SHIELI TAL, BEAN N THROUG	05 OR INS 1 CLAMPS 5H STRAPS	ERTS IN ON		F.	PROVIDE F FEEDERS IN TERMINATIC ALARM), SI	DICATE F	EEDER NUI	MBER, SIZE AND ALAF
		PERMITTED. FISHPLATES		REQUIRED E	Y STRUC	TURE, FU	RNISH THF	ROUGH BC	DLTS AND)	G.	TERMINATION 10 AND SM	ALLER SH,	ALL UTILIZI	E COMPRE
		EXPOSED RA TO WALLS. F (MINIMUM 3 II IN. FROM PIF HUNG CEILIN SUPPORT CA	PROVIDE N. SEPAR PE COVER G OUTLET	CLEARANC ATION FRO R AT CROS IS, RUN IN H	E WITH W M STEAM SINGS AN IUNG CEIL	ATER, ST 1 AND HC ID 18 IN. LING AND	TEAM OR (DT WATER FOR PAR CONNEC	OTHER PIF PIPES, EX ALLEL RUN T TO CEILI	PING CEPT 1 NS). FOR			CONNECTO 8 AND LAR COMPRESS AND CONNI CONDUCTO COPPER LL	GER SHAL NON TYPE ECTORS S R. PROVI	L UTILIZE I USING MAI HALL UTILI DE TO MA ⁻	MECHANICA NUFACTURE ZE COMPR TCH CABLE
		VERTICALLY MAINTAIN GF WITH GROUN MOTOR TER	ONLY. ROUNDING ID CONDU	5 CONTINUIT JCTOR, ANI	Y OF INT D IN FLEX	ERRUPTI	ED METAL	LIC RACEP			H.	NOT MORE INSTALLED THERMOPL SEPARATE SYSTEMS, E VOLT CON	IN ONE CO ASTIC WIR RACEWAY EXCEPT 46	DNDUIT UNL ES AT TEM S FOR CC 0 VOLT M	LESS OTHE IPERATURE NDUCTORS 10TOR BR
		EMPTY RACI GALVANIZEE			LONG: Pi	ROVIDE I	FISH OR P	ULL MIRE,			I	COMPUTER	AREA RA	ISED FLOC	ORS.
		RIGID STEEL CIRCUITS. PA GRAPHITE-B	AINT MALE BASE PIPE	E THREADS	OF FIELI D AND B	D-THREA	DED CON DUIT ENDS	DUIT WITH 5. TOUCH U	P			PERFORM FEEDERS, 1 OVER 25 H	CONTINUIT O PERCEN	Y AND INS	ULATION TE

EMT SHALL BE PERMITTED FOR BRANCH CIRCUITS ONLY, IN DRY LOCATIONS, DRY WALLS, HUNG CEILINGS, HOLLOW BLOCK WALLS AND FURRED SPACES. EMT SHALL NOT BE PERMITTED IN RAISED FLOORS.

FLEXIBLE STEEL CONDUIT SHALL BE UTILIZED FOR SHORT CONNECTIONS WHERE RIGID CONDUIT IS IMPRACTICAL. FROM OUTLET BOX TO RECESSED LIGHTING FIXTURE: PROVIDE MINIMUM 4 FT AND MAXIMUM 6 FT LENGTHS. FOR FINAL CONNECTION TO MOTOR TERMINAL BOX, TRANSFORMER AND OTHER VIBRATING EQUIPMENT: PROVIDE WITH POLYVINYL SHEATHING AND GROUND CONDUCTOR. MINIMUM LENGTH: 18 IN. WITH SLACK. CONNECT GROUND CONDUCTOR TO ENCLOSURE OR RACEWAY AT EACH END. FOR EXPANSION JOINT CROSSINGS, CROSS AT RIGHT ANGLES AND ANCHOR ENDS.

CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED RACEWAYS WITH GRAPHITE BASE PIPE COMPOUND. DRAW UP TIGHT WITH RACEWAY COUPLING.

ALL COUPLINGS SHALL BE THREADED COMPRESSION TYPE. SET SCREW TYPE NOT PERMITTED.

EXPANSION FITTINGS SHALL BE INSTALLED AT RIGHT ANGLES WITH CLIP JOINT CENTERED IN EXPANSION JOINT. PROVIDE A LENGTH OF RUN IN ACCORDANCE MANUFACTURER'S RECOMMENDATIONS. PRESET FITTINGS SHALL ALLOW FOR TEMPERATURE VARIATION. RACEWAYS PASSING THROUGH FIRE-RATED CONSTRUCTION: SEAL OPENING WITH FIRE SEALANT.

- d. ERECT WALL AND SWITCH OUTLETS IN ADVANCE OF FURRING AND FIREPROOFING. OUTLET BOXES SHALL BE SET SQUARE AND TRUE WITH BUILDING FINISH. SECURE TO BUILDING STRUCTURE BY ADJUSTABLE STRAP IRON OR GROUT IN WITH MASONRY. VERIFY OUTLET LOCATIONS IN FINISHED SPACES WITH ARCHITECTURAL DRAWINGS OF INTERIOR DETAILS AND FINISHES. PROVIDE BARRIERS BETWEEN SWITCHES CONNECTED TO DIFFERENT PHASES FOR VOLTAGES EXCEEDING 150 VOLTS TO GROUND.
- e. PANEL, JUNCTION AND PULL BOXES SHALL BE LOCATED CLEAR OF OTHER TRADES. CONCEAL JUNCTION AND PULL BOXES IN FINISHED SPACES. WHERE NECESSARY, REROUTE RACEWAYS OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. BOXES SHALL BE ACCESSIBLE. SUPPORT BOXES FROM BUILDING STRUCTURE, INDEPENDENT OF CONDUIT. PROVIDE FLOOR-TO-CEILING CHANNELS FOR MOUNTING ON DRYWALL AND LIGHTWEIGHT CONSTRUCTION. OUTLET BOXES FOR FIXTURES RECESSED IN HUNG CEILINGS SHALL BE ACCESSIBLE THROUGH OPENING CREATED BY REMOVAL OF FIXTURE. SECURE TO BLACK IRON SUPPORT. MOTOR TERMINAL BOXES: COORDINATE WITH MOTOR BRANCH CIRCUIT CONDUIT AND WIRING; ADD BOX VOLUME WHERE REQUIRED.
- D. MOMENTARY CONTACT SWITCHES FOR REMOTE CONTROL.

RATED 20 AMP, 120/277 VOLT, AC.

1) SINGLE, EXCEPT AS NOTED:

a. 20 AMP STRAIGHT BLADE.

E. PILOT LIGHTS: NEON LAMP.

a. FEED-THRU TYPE.

- F. DEVICE PLATES: SEE ARCHITECT FOR TYPE. FOR RECEPTACLES WITH OTHER THAN 120 VOLT, INSCRIBED VOLTAGE AVAILABLE.
- G. COLORS: COORDINATE COLORS WITH ARCHITECT.
- H. MOUNTING ORIENTATION OF RECEPTACLES (HORIZONTAL OR VERTICAL): COORDINATE WITH ARCHITECT.
- 10. LIGHTING FIXTURES:

9. DEVICES:

A. PROVIDE FIXTURES ("LUMINAIRES"), COMPONENTS AND LAMPS. FIXTURES SHALL BE COMPLETELY FACTORY ASSEMBLED, WIRED AND EQUIPPED WITH ALL NECESSARY SOCKETS BALLASTS SUPPORTING HARDWARE AND ACCESSORIES. REFER TO DRAWINGS FOR INDIVIDUAL FIXTURE DESCRIPTIONS.

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ACEWAYS AND WIRE PASSING THROUGH ENINGS IN FIRE-PARTITIONS ROOMS.

RESISTANCE OF FEEDER CONDUITS FROM TRIBUTION USING 1 CONDUCTOR RETURN. 25 OHMS.

NITH ACCESSORIES. SIZE REFERENCE SHALL

I STANDARD SOLID (NO. 10 AND SMALLER) INERAL USE CABLING SHALL BE NO. 12 FT CIRCUIT LENGTH PROVIDE NO. 10 FT CIRCUIT LENGTH PROVIDE NO. 10

FAS NOTED, SHALL BE NO. 14 MINIMUM. AT ENGTH PROVIDE NO. 12 MINIMUM.

CABLE SIZING AS REQUIRED TO MAINTAIN IZES FOR LARGER WIRE AS REQUIRED.

RMOPLASTIC MEETING ASTM AND IPCEA . BE UTILIZED FOR FEEDERS AND BRANCH 2 SHALL BE UTILIZED FOR BRANCH CIRCUITS INUOUS FLUORESCENT FIXTURES AND IN

IRCUITS PROVIDE CROSS-LINKED

FOR BRANCH CIRCUITS IN DRY HOLLOW WALLS. WHEN USED IN LIEU OF WIRING IN CE IS BASED UPON THE USE OF BX.

OUTER COVERING THROUGHOUT. EQUIPMENT OUTER COVERING THROUGHOUT.

T AVAILABLE, CERTIFY IN WRITING AND CONDUCTORS WITH 6 IN. OF COLOR TAPING

TAGS IN ACCESSIBLE LOCATIONS. FOR E, PHASE AND POINTS OF ORIGIN AND RM WIRING INDICATE TYPE (CONTROL OR ORIGIN AND TERMINATIONS.

R 600 VOLTS: COPPER CONDUCTORS NO. ESSION-TYPE OF TWIST-ON SPRING-LOADED ATED COVERING. COPPER CONDUCTORS NO. AL BOLTED PRESSURE OR HYDRAULIC ER'S RECOMMENDED TOOLING. CABLE LUGS RESSION TYPE OF SAME METAL AS E, WITH MARKING INDICATING SIZE AND TYPE. RS: USE ANTISEIZE COMPOUND ON TANG.

NIENCE OUTLET CIRCUITS SHALL BE ERWISE INDICATED. PULL NO ES LOWER THAN 32 DEG F. PROVIDE RS OF 120/208 AND 265/460 VOLT ANCH CIRCUIT WIRING AND RELATED 120 C WIRES SHALL NOT BE INSTALLED IN

PERMIT MAKING FINAL CONNECTIONS. ESTS. MEGGER TEST 100 PERCENT OF CUITS AND ALL MOTOR BRANCH CIRCUITS

PERFORM TESTS PRIOR TO CONNECTING EQUIPMENT AND IN PRESENCE OF AUTHORIZED REPRESENTATIVES. SUBMIT WRITTEN REPORT OF RESULTS. CORRECT OR REPLACE CABLE THAT TESTS BELOW MANUFACTURER'S STANDARDS.

A. PROVIDE COMPLETE MATERIAL AND ACCESSORIES AS NOTED.

B. LOCAL WALL SWITCHES SHALL BE SPECIFICATION GRADE, TOGGLE, QUIET TYPE,

C. INSERTION RECEPTACLES SHALL BE SPECIFICATION GRADE DUPLEX CONVENIENCE 125 VOLTS, 2 POLE, 3 WIRE, U GROUND SLOT. GROUNDED, EXCEPT AS NOTED. MEETING NEMA STANDARDS, PUBLICATION WD-1-1971.

2) SPECIAL USE: NONINTERCHANGEABLE TYPES AND RATINGS.

3) CLOCKS: SINGLE RECESSED RECEPTACLE, 5 WIRE.

4) GROUND FAULT INTERRUPTER RECEPTACLES:

- B. FIXTURE CATALOG NUMBERS USED TO ILLUSTRATE EQUIPMENT TYPE DO NOT NECESSARILY DENOTE REQUIRED MOUNTING EQUIPMENT OR ACCESSORIES. PROVIDE ACCESSORIES TO SUIT.
- C. BALLAST: CLASS P, HIGH POWER FACTOR, LOWEST AVAILABLE NEMA RATED NOISE LEVEL, ET1 AND CBM APPROVED. ENERGY SAVING TYPE. TRIGGER START FOR 24-INCH LAMPS AND RAPID START FOR 48-INCH. TWO LAMP BALLASTS; NO THREE LAMP BALLASTS. BALLASTS SHALL BE ADVANCE MAGNETEK, UNIVERSAL OR EQUAL.
- D. CONTINUOUS ROW, TWO LAMP STRIP FIXTURES SHALL BE STAGGERED TYPE.
- 11. TELEPHONE CONDUIT SYSTEM:
- A. PROVIDE COMPLETE SYSTEM OF: EMPTY CONDUIT, PULL BOXES, OUTLETS, SLEEVES AND FISHWIRES.
- B. EQUIPMENT SHALL CONFORM TO REQUIREMENTS OF TELEPHONE COMPANY.
- C. OUTLETS SHALL BE:
- 1) WALL: 4 IN. SQUARE WITH BUSHED COVER PLATE.
- 2) FLOOR: CAST IRON WITH LOW TENSION FITTING.
- D. PROVIDE FISHWIRES IN RACEWAYS OVER 10 FT LONG. EMPTY CONDUIT SHALL BE 1 IN. MINIMUM. FURNISH EMPTY CONDUIT FROM OUTLET TO NEAREST ACCESSIBLE HUNG CEILING.

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Drawing Title ELECTRICAL SPECIFICATIONS SHEET 2 OF 2

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