COVER PAGE

ARCHITECTURAL

- A1 SITE PLAN, KEY PLANS A2 - NORTH (LIBRARY) ENTRANCE
- A3 WEST ENTRANCE
- A4 SOUTH (GYM) ENTRANCE
- A5 DETAILS

STRUCTURAL

S1 - ENTRANCE SLABS FRAMING PLANS S2 - ENTRANCE SLABS SECTIONS S3 - TYPICAL DETAILS & GENERAL NOTES

BARRIER FREE ENTRANCES ALTERATIONS 2021

MISSISSAGUA

MG Architects Inc.

APPENDIX F

MECHANICAL

M1 - HVAC KEY PLAN, LEGEND, DEMOLITION PARTIAL FLOOR PLAN

M2 - HVAC PART GROUND FLOOR PLANS, NEW WORK

ELECTRICAL

E1 - ELECTRICAL, LEGEND OF SYMBOLS, KEY PLAN AND NOTES E2 - ELECTRICAL, PART GROUND FLOOR, DEMOLITION LAYOUT E3 - ELECTRICAL, PART GROUND FLOOR, LIGHTING LAYOUT E4 - ELECTRICAL, PART GROUND FLOOR, POWER & F.A. /SEC. LAYOUT E5 - ELECTRICAL, PANEL SCHEDULES, RISERS AND DETAILS E6 - ELECTRICAL, ELECTRICAL SPECIFICATIONS

PORT CREDIT SECONDARY SCHOOL



STRUCTURAL **RAVENS ENGINEERING**

MECHANICAL & ELECTRICAL ELLARD-WILLSON ENGINEERING LIMITED









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FOUNDATION/GROUND PLAN NOTES (FOR ALL ENTRANCES) 1. TOP OF SLAB IS AT ±0 BELOW FINISHED GROUND FLOOR ELEVATION EXCEPT AS CROSSED AND NOTED.

- 3. ALL NEW FOOTINGS SHALL BE PLACED MINIMUM 1200mm BELOW FINISHED GRADE.
- 4. FOOTINGS SHALL BE LOWERED TO ACCOMMODATE UNDERGROUND MECHANICAL SERVICES. DO NOT UNDERMINE EXISTING FOOTINGS.
- 6. ALL FOOTINGS SHALL BE FORMED. FOOTINGS POURED INTO NEAT EXCAVATION ARE NOT ACCEPTABLE.
- 7. UNLESS NOTED OTHERWISE ALL WALL FOOTINGS SHALL HAVE 150mm PROJECTION X 200mm DEEP.

	WWF —			<u>~3</u> mm		
		30mm		、 、	40mm COVER	
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FOR UNDERLAYING MATERIAL REFER TO ARCH. SPECIFICATION "EXCAVATION & BACKFILL"

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DATE

07JUN2021

ELLARD-WILLSON ENGINEERING LTD 260 TOWN CENTRE BLVD. #202 MARKHAM, ONTARIO L3R 8H8

5650 Hurontario Street, Mississagua, Ont., L5R 1C6

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		HEATING CAPACITY	E.W.T.	L.W.T.	WATER FLOW	E.A.T.	MOTOP	DOWER	REMARKS
MODEL NO.	HEATER TYPE	WATTS	·c	•C	L/MIN.	·c	HP	FOWER	
ENG. AIR CUH—6	CABINET UNIT HEATER	12,100	82.22	71.11	15.60	15.6	1/20	120V/1ø/60	283 L/S AIR FLOW, ARR.16, FULLY RECESSED
WF-1A	FINNED TUBE RADIATION SINGLE ROW, 100mm A.F.F.	SEE FLOOR PLANS	82.22	71.11	SEE FLOOR PLANS	18.3	_	_	300mm HIGH SLOPE TOP ENCLOSURE, 32Ø COPPER TUBE, 102mm x 102mm ALUMINUM FIN, 164 FINS/M

		LEGEND OF SYMBOLS] [
		1'X4' LED LIGHT FIXTURE, RECESSED MOUNTED.				
-	ООЧ	WALL OR CEILING MOUNTED LIGHT FIXTURE.				
	3\$К	120 VOLT LIGHTING TOGGLE SWITCH – '3' DENOTES THREE WAY, 'K' DENOTES KEY SWITCH (SWITCHES SHALL BE GANGED TOGETHER).				
	P\$	FLUSH MOUNTED 120 VOLT MOTOR RATED SWITCH - P DENOTES C/W PILOT LIGHT				
+		REMOTE EMERGENCY LIGHTING HEAD(S) (CONNECT TO EXISTING EMERGENCY).				VES
		EXIT SIGN WALL OR CEILING MOUNTED WITH RUNNING MAN PICTOGRAM – ARROW DENOTES DIRECTION OF TRAVEL. ELECTRICAL CONTRACTOR MUST CONFIRM ON SITE WITH BUILDING INSPECTOR FOR THE CORRECT TYPE OF ALL NEW EXIT LIGHTS (LETTERING OR RUNNING MAN PICTOGRAM TYPE) BEFORE PLACING ORDER AND INSTALLATION.				
_	wфс	15A, 120V DUPLEX RECEPTACLE (W-DENOTES WASHER; C-DENOTES CEILING SPACE)				
-	🖶 GFI	15/20A, 120V, 1ø GROUND FAULT INTERRUPTER COMBINATION DUPLEX RECEPTACLE ("NEMA" 5–20R 125V, 2POLE, 3 WIRE, GROUNDED)				
	۲	SPECIAL OUTLET (SIZE AND EQUIPMENT AS NOTED, CONNECT TO EQUIPMENT).				
	<i>i</i>	ELECTRIC MOTOR (WIRING & EQUIPMENT AS NOTED)			₽ <u>-</u>	<u>ŧ</u>
Ŧ	EXP WP[]- ¹ RT	DISCONNECT SWITCH (WP DENOTES WEATHERPROOF; RT DENOTES RAINTIGHT; EXP DENOTES EXPLOSION PROOF)			TUA	TO SHOP 135
	Ø ₽	MANUAL MOTOR STARTER (P DENOTES PILOT LIGHT, SUPPLIED BY DIV.15, INSTALLED BY DIV.16)				
	F	FIRE ALARM PULL STATION (SHALL MATCH EXISTING)		VESTIE 195		
	FS	FLUSH MOUNTED FIRE ALARM SPEAKER-'S' DENOTES C/W STROBE LIGHT SPRLA & SPSRLA (SHALL MATCH EXISTING)			AREA C RENOVA)F \TION
	€s	FIRE ALARM SMOKE DETECTOR (SHALL MATCH EXISTING)			(SEF AMAS NDG	ລ _{້າ36} #E2,E3,I
	€ H	FIRE ALARM HEAT DETECTOR (SHALL MATCH EXISTING)				▞ᠾ᠊᠊᠆᠆
+	Ð	FLUSH MOUNTED OUTLET BOX C/W 16mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE FOR TEMPERATURE SENSOR. EXACT LOCATION SHALL BE COORDINATED WITH MECHANICAL DRAWINGS. (TEMPERATURE SENSOR AND WIRING BY MECHANICAL DIV.)			l	1111
	S	FLUSH MOUNTED CEILING P.A. SPEAKER, BACK BOX COMPLETE WITH ASSOCIATED 21mm EMPTY CONDUIT TERMINATED IN ACCESSIBLE CEILING SPACE.				
)	₿¢₩₽	WEATHERPROOF OUTLET BOX FOR P.A. EXTERIOR BELLS C/W 21mmEC TERMINATED IN ACCESSIBLE CEILING SPACE.				
	P	OUTLET FOR HANDICAP PUSH BUTTON. SEE DET.#4 ON DWG. E6.				
	DC	SECURITY DOOR CONTACT COMPLETE WITH ASSOCIATED CONDUIT/WIRES. CONNECT TO SECURITY PANEL.				
	ES	ELECTRIC STRIKE				
		SECURITY MOTION DETECTOR COMPLETE WITH ASSOCIATED CONDUIT/WIRES. CONNECT TO SECURITY PANEL.				
	[JB]	JUNCTION BOX OR PULL BOX				
		CCTV CAMERA (WP DENOTES WEATHER PROOF)		1 E1	OVERALL SCALE:	GRC
		SURFACE OR FLUSH MOUNTED ELECTRICAL PANELS.	- г	_		
	EX	DENOTES EXISTING ITEM TO REMAIN		GE	NERAL NOTE	<u>:s</u> :
\downarrow	ER	DENOTES EXISTING ITEM TO BE RELOCATED. EXTEND EXISTING CONDUIT & WIRES TO NEW LOCATION AND ADJUST ALL ASSOCIATED COMPONENTS TO SUIT)		1. 2. 3.	FOR EXACT LOCATI FOR EXACT LOCATI EXACT LOCATION F	ION OF L ION OF A FOR ALL (
	RM	DENOTES EXISTING ITEM TO BE REMOVED (REMOVE ASSOCIATED CONDUIT & WIRES). RETAIN THE INTEGRITY OF THE EXISTING CIRCUIT(S) AND ADJUST ALL COMPONENTS TO SUIT		4. 5.	CO-ORDINATE ALL W ELECTRICAL CONTR	ORK WITH
	RP	DENOTES EXISTING ITEM IN RELOCATED POSITION. EXTEND EXISTING CONDUIT & WIRES FROM PREVIOUS LOCATION AND CONNECT (UNLESS OTHERWISE NOTED). COORDINATE EXACT LOCATION WITH ARCHITECT BEFORE ROUGH-INS. ADJUST ALL ASSOCIATED COMPONENTS TO SUIT.		6. 7.	ALL NEW DUPLEX F ALL SYSTEMS COND NOT ACCESSIBLE/FE	(LCEPTACLI UIT(S) SH/ EASIBLE F(
Δ	ER/RP	DENOTES EXISTING DEVICES TO BE TEMPORARILY DISCONNECTED AND REMOVED FROM THEIR LOCATIONS AND RE-INSTALLED TO THE ORIGINAL LOCATIONS AND CONNECTED TO THE SAME EXISTING ELECTRICAL CIRCUITS OR ZONE CIRCUITS.	-	8. 9. 10.	WIREMOLD RACEWAY PROVIDE STAINLES PROVIDE BUSHING PROVIDE TYPED W RENOVATION/ADDIT	<u>shall Bi</u> s Steel S at Bot Iritten Ui

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Y OPERATED EQUIPMENT IS REMOVED RE-INSTALLED ELSEWHERE, REMOVE	C		\frown	4D PROFE	SSIONALEN
AYES, CABLES, FIXTORES, ETC. AYS, PANELS, ETC. WHICH MAY EQUIPMENT, SHALL BE CLOSED IN LES AND WIRES PROPERLY RESTORE THE SYSTEM TO A SAFE			STRUCTION NORTH	L.	SUN 542032
THE ARCHITECT'S SATISFACTION. REQUIRED IN THE SPECIFICATION ID MATERIALS TO BE REMOVED RE—INSTALLED, EITHER IN WHOLE			N	PROLINCE	OF ONTARIO
ALL SUCH EQUIPMENT AND Y CLEANED AND WHERE RATING CONDITION BEFORE BEING TION.			ELLARI	D-WILL EERING	SON LTD
IS NOT TO BE ULTIMATELY I THE CONSTRUCTION, THE LY RELOCATED UNTIL SUCH TIME D SERVICES TO TEMPORARILY MAINTAINED AT ALL TIMES.		2 M T	60 TOWN CENTRE ARKHAM ONT :(905)940-3100	BLVD., SUI ARIO L F:(905)940	TE 202 3R-8H8)-2139
IS REMOVED, ALL ASSOCIATED IS SHALL BE TERMINATED AND AND SHALL BE MADE SAFE. ALL FE BOXES / DULL BOXES INSIDE	В	DRAWN	BY: R.R.		
MAIN AND PROVIDE BLANK COVERS ATED WIRING/DATA CABLES/VOICE M SOURCE.		CHECKI DATE:	ED BY: F.Z. JUNE 202	21	
G, CONDUIT AND JUNCTION BOXES E WITH CONSULTANT) D OR RELOCATED ELECTRICAL		PROJEC			_
COORDINATE ALL WORK TO SUIT		SE	PORT C CONDAR	REDIT Y SCH	OOL
DISCONNECT AND REMOVE ALL ICAL EQUIPMENT TO BE REMOVED. ATIONAL IN ENTIRE BUILDING AT ALL		BAF	RRIER FREE ALTERATIO	ENTRA ONS 202	NCES 21
DEVICES SHALL BE KEPT OPERATIONAL INTIL THE NEW FIRE ALARM SYSTEM IS INATE WITH PROJECT PHASE SCHEDULE. CTRICAL SPECIFICATIONS.		70 MIN Drawin	IEOLA RD.,EAS	T,MISS.,OI	NT.,L5G 2E5
OPERATIONAL IN ENTIRE BUILDING AT M DEVICES SHALL BE KEPT TION PHASE UNTIL THE NEW SECURITY VAL. COORDINATE WITH PROJECT PHASE ND ELECTRICAL SPECIFICATIONS.	A	ELE PAF DEN	ECTRICAL RT GROUNI MOLITION L) FLOO AYOUT	R
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		5650 H Tel: (90	urontario Street, Mi 5) 890–1099, Fax: (S	ssissauga, On 905) 890-9453	t., L5R 1C6
DOOR HARDWARE POWER SUPPLY, SUPPLIED	С			PROFE	SSIONAL
BY DOOR HARDWARE SUPPLIER/INSTALLER AND INSTALLED AND CONNECTED BY ELECTRICAL DIVISION.		CONS		CENSED	SUN E
12"x12"x6" JUNCTION BOX (INSTALL BOX IN ACCESSIBLE CEILING SPACE)				1005	542032 e 7 ch, Jas
CEILING			N	ROVINCE	OF ONVARIO
16mmC TO B.F. DOOR OPERATOR. TERMINATE CONDUIT INSIDE DOOR TRANSOM AT B.F. DOOR OPERATOR		H	ELLARI	O-WILL	SON
(COORDINATE WITH THE ARCHITECT AND HARDWIRE SUPPLIER/INSTALLER)		26 M/	O TOWN CENTRE	BLVD., SUIT	E 202 R-8H8
FLUSH WALL MOUNTED OUTLET BOX AND KEYPAD. REFER TO FLOOR PLAN		T:	(905)940-3100	F:(905)940	-2139
OUTLET BOX FOR ELECTRIC STRIKE.	В	DRAWN	BY: R.R.		
ELECTRIC STRIKE SHALL BE BY HARDWARE SUPPLIER. (COORDINATE WITH THE ARCHITECT AND HARDWIRE SUPPLIER (INSTALLER)		CHECKE	D BY: F.Z.		
TERMINATE CONDUIT INSIDE DOOR FRAME AT ELECTRIFYING HINGE (COORDINATE WITH THE ARCHITECT AND HARDWIRE		DATE: PROJEC	JUNE 202 T TITLE:	21	
SUPPLIER/INSTALLER)			PORT C	REDIT	
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		ELEC
1	. GENERAL	14. SLEEVES
	 PROVIDE ALL EQUIPMENT, MATERIALS, LABOUR AND SERVICES TO COMPLETE ELECTRICAL SYSTEMS GENERALLY AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED HEREINAFTER. ALL WORK SHALL CONFORM TO C.S.A., N.B.C., LOCAL MUNICIPAL AND PROVINCIAL LAWS AND REGULATIONS. 	 .1 PROVIDE SLEEVES OF GALVANIZED STEEL PIPE WITH MACHINE CUT ENDS OF AMPLE SIZE TO ACCOMMODATE CONDUITS PASSING THROUGH WALLS, PARTITIONS, CEILINGS, ROOFS, FLOO .2 THE SPACE BETWEEN THE SLEEVE AND THE CONDUIT AND SPARE SLEEVES SHALL BE FILLED WITH DOW CORNING SILICONE RTV FOAM FOR FIRE STOP. CAULK AROUND THE TOP AND BOTTOM WITH APPROVED PERMANENTLY RESILIENT. NONELAMMABLE AND WEATHERPROOF
	 .3 BEFORE FINAL PAYMENT IS MADE, AN UNCONDITIONAL PROVINCIAL INSPECTION DEPARTMENT CERTIFICATE SHALL BE GIVEN TO THE OWNER, INDICATING THAT ALL PARTS OF THE ELECTRICAL SYSTEM MEET ONTARIO E.S.A. APPROVAL. .4 MAINTAIN SUCH INSURANCE AS WILL FULLY PROTECT BOTH THE OWNER AND FROM ANY AND ALL 	SILICONE BASE COMPOUND. .3 LOCATE AND POSITION SLEEVES EXACTLY PRIOR TO CONSTRUCTION OF WALLS, FLOORS, ETC. .4 FAILURE TO COMPLY WITH THE ABOVE REQUIREMENTS SHALL BE REMEDIED AT THIS
2	CLAIMS UNDER THE WORKMEN'S COMPENSATION ACT, ALSO ALL INSURANCE AS NOTED WITHIN GENERAL CONDITIONS. . REGULATIONS	15. RECORD DRAWINGS 15. RECORD DRAWINGS 1 OBTAIN AND PAY FOR TWO SETS OF WHITE PRINTS AND MARK CLEARLY AND NEATLY ALL CHANGES IN CONDUIT RUNS, LOCATION OF FOUIPMENT OR
3	.1 COMPLETE INSTALLATION SHALL CONFORM WITH APPLICABLE CODES, BY-LAWS AND REGULATIONS. .2 COMPLY WITH ALL REQUIREMENTS AND STANDARDS OF THE LOCAL AUTHORITIES. . PERMITS. FEES AND INSPECTIONS	FIXTURES AND REVISIONS MADE BY ADDENDUMS, CHANGE ORDERS AND SITE INSTRUCTIONS. .2 THE RECORD DRAWINGS SHALL BE KEPT ON SITE AND SHALL BE AVAILABLE FOR REVIEW BY THE ARCHITECT/CONSULTANT.
4	.1 APPLY AND PAY FOR ALL PERMITS, FEES AND INSPECTIONS BY AUTHORITIES HAVING JURISDICTION. . SHOP DRAWINGS 1 SUBMIT SIX (6) COPIES OF SHOP DRAWINGS OF EACH PIECE OF MANUFACTURED FOUNDMENT	 .3 THE RECORD DRAWINGS SHALL SHOW ALL CONDUIT, WIRING DIAGRAMS AND CONDUCTOR RUNS FOR ALL SYSTEMS INCLUDING SIZES, TYPES OF COMPONENTS, CIRCUIT NUMBERS, ETC. EXACTLY AS INSTALLED. .4 PRIOR TO REQUESTING FINAL INSPECTION SUBMIT ONE SET OF MARKED-UP PRINTS
5	FOR ARCHITECT AND CONSULTANT'S REVIEW.	FOR REVIEW BY THE CONSULTANT. .5 REVIEW OF THE RECORD DRAWINGS BY THE CONSULTANT SHALL BE FOR GENERAL CONFORMANCE ONLY AND IS NOT AN APPROVAL OF THE ACCURACY OF THE DRAWINGS. THIS DIVISION SHALL BE RESPONSIBLE FOR THE ACCURACY OF THE RECORD DRAWINGS.
	 PROVIDE THE SERVICES OF COMPETENT PERSONNEL TO INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF THE EQUIPMENT. PREPARE NEATLY TYPEWRITTEN OPERATING INSTRUCTIONS. ASSEMBLE INTO THREE (3) DATA BOOKS WITH ONE COPY OF EACH SHOP DRAWING AND ALL EQUIPMENT, MAINTENANCE AND 	.6 AFTER REVIEW BY THE CONSULTANT, REQUEST ONE SET OF CAD DISKS AND PAY (\$350.00), AND TRANSFER ALL THE RECORDED INFORMATION FROM THE WHITE PRINTS TO THE DISKS. .7 SUBMIT THE AS-BUILT CAD DISKS, TWO SETS OF WHITE PRINTS PRODUCED FROM THE AS-BUILT DISK SET AND THE ORIGINAL MARKED-UP PRINTS OF THE RECORD DRAWINGS
	OPERATING INFORMATION. .3 PROVIDE 1 HARD COPY OF THE DATA BOOKS AND 1 SOFT COPY VIA USB KEY. 6. INSURANCE	16. ELECTRICAL TESTING AND COMMISSIONING 11. ALL SYSTEMS, EQUIPMENT AND INSTALLATION SHALL BE INSPECTED, TESTED, ADJUSTED AND COMMISSIONED TO ENSURE COMPLIANCE WITH THE DRAWINGS. SPECIFICATIONS AND
	.1 MAINTAIN ALL NECESSARY INSURANCE TO PROTECT THE OWNER AND THE TRADES OF THIS DIVISION FROM ALL POSSIBLE CLAIMS.	REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. .2 PROVIDE TESTING EQUIPMENT, INSTRUMENTS, MATERIAL AND LABOUR FOR ALL TESTING AND COMMISSIONING.
•	7. GOARANTEE .1 THE GUARANTEE PERIOD SHALL EXTEND ONE (1) YEAR FROM THE DATE OF ISSUE OF "SUBSTANTIAL COMPLETION" CERTIFICATE. ALL REPAIRS DURING THIS PERIOD ARE THE RESPONSIBILITY OF THIS DIVISION AT NO COST TO THE OWNER.	.3 SUBMIT REPORTS OF ALL TESTING AND COMMISSIONING FOR REVIEW BY THE CONSULTANTS. <u>17. CUTTING AND PATCHING</u> .1 ALL CUTTING, PATCHING AND CORE DRILLING REQUIRED FOR ELECTRICAL CONTRACTOR'S WOR
	8. IDENTIFICATION OF EQUIPMENT .1 ALL ELECTRICAL EQUIPMENT SHALL BE IDENTIFIED BY MEANS OF BLACK LAMICOID PLATES WITH WHITE LETTERING INDICATING FUNCTION OF EQUIPMENT.	SHALL BE BY THE ELECTRICAL CONTRACTOR TO THE COMPLETE SATISFACTION OF THE ARCHITECT AND CONSULTANT. .2 ELECTRICAL CONTRACTOR SHALL INCLUDE IN TENDER THE COST FOR X-RAY OF LOCATION F FLOOR CORE DRILLING AND SAW CUTTING TO ESTABLISH EXACT LOCATION.
	 .2 IDENTIFY ALL JUNCTION BOXES WITH PANEL AND CIRCUIT NUMBERS WHERE THEY ARE FED FROM. .3 THE INTERIOR, EXTERIOR AND LIDS OF ALL OUTLET BOXES SHALL BE NEATLY IDENTIFIED WITH DIFFERENT COLOURS OF PAINT. THE COLOUR SHALL BE CONSISTENT THROUGHOUT THE PROJECT WHAT WHET WITH THE COLOUR SHALL BE CONSISTENT THROUGHOUT THE PROJECT 	18. SCHEDULE OF WORK .1 ADHERE TO SCHEDULE OF WORK AS PROVIDED BY THE CONSULTANT AND THE CONTRACTOR.
	AND SHALL MATCH EXISTING. 120/208 Volt Lighting Orange 120/208 Volt System Black 347/600 Volt Emergency Power System White	19. MATERIALS .1 ALL MATERIALS USED SHALL BE NEW AND OF THE TYPE SPECIFIED AND FREE FROM DEFECTS AND THEY SHALL BE C.S.A. APPROVED. .2 ALL WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER, PRESENT A NEAT MECHANICAL APPEARANCI
	120/208 Volt Emergency Lighting/Power System Yellow P.A./Telephone System Brown Fire Alarm System Red Security System Green	AND CONFORM WITH ONTARIO ELECTRICAL SAFETY CODE AND LOCAL AUTHORITIES REQUIREMENTS. .3 ALL L.V. WIRES AND CABLES SHALL HAVE 600 VOLTS INSULATION AND BE SUITABLE FOR THE LOCATION USED AND SHALL HAVE A CURRENT CARRYING CAPACITY IN ACCORDANCE WITH PROVINCIAL INSPECTION DEPARTMENT STANDARDS.
	* For colours co-ordinate with School Board.	 .4 BX90 CAN BE USED ONLY IN PARTITIONS AND WHERE CONCEALED, TERMINATE CABLES WITH A JUNCTION BOX IN THE ACCESSIBLE CEILING SPACE, HOME RUN FROM JUNCTION BOX TO LIGHTING PANEL SHALL BE IN CONDUIT. .5 NO WIRE SMALLER THAN #12 SHALL BE USED EXCEPT FOR INTERNAL WIRING OF
	 9. CLEANING .1 ALL EQUIPMENT SHALL BE CLEANED DURING CONSTRUCTION AND THOROUGHLY CLEANED ON COMPLETION OF THE CONTRACT. 10. CO-ORDINATION 	LIGHTING FIXTURES. .6 ALL WIRING TO BE COLOR CODED AND SHALL BE IDENTIFIED WITH BRADY SELF—STICKING PERMACODE WIRE MARKERS. NO JOINTS WILL BE PERMITTED ON FEEDERS (COPPER).
	 1.1 CONFER WITH ALL OTHER TRADES AND ARRANGE EQUIPMENT IN PROPER RELATION WITH OTHER APPARATUS, DUCTS, PIPES, ETC. AND WITH BUILDING CONSTRUCTION AND CONSULTANT FINISHES. 2. COORDINATE ROUTING OF CONDUITS FOR ANY FLOOR BOX WITH THE SPACE BELOW AND 	 .7 ALL JOINTS TO BE SECURELY FASTENED BY MEANS OF MARR CONNECTORS. .8 RACEWAYS SHALL BE RIGID METAL CONDUIT, EMT OR FLEXIBLE CONDUIT AS SHOWN ON THE DRAWINGS. PROVIDE GROUND WIRE AS REQUIRED. 2 FUT CONDUMINGS AND CONNECTORS TO BE TABLE OFFICIENT OFFICIENT.
•	THE OWNER PRIOR TO INSTALLATION OF FLOOR BOX. 3 COORDINATE ANY SCHEDULED POWER SHUTDOWNS WITH THE OWNER PRIOR TO COMMENCING WORK. 11. TEMPORARY AND TRIAL USAGE	.10 CONDUITS ARE NOT ALLOWED TO BE INSTALLED IN OR ON UNDERSIDE OF CABLE TRAY OR TO BE ATTACHED TO THE METAL DECK. .11 USE OR RUNNING THREADS IS NOT PERMITTED.
!	.1 THE OWNER RESERVES THE RIGHT OF TRIAL OR TEMPORARY USAGE PRIOR TO ACCEPTING THE INSTALLATION. I.2. EXISTING CONDITIONS	 ALL CONDUITS MUST BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS IN PARTITIONS AND CADDY CLIPS IN CEILING. NAILS OR TIE WIRES WILL NOT BE ACCEPTED. OPENINGS IN ALL ELECTRICAL METAL BOXES SHALL BE PUNCHED OR CUT.
•	 .1 <u>VISIT THE SITE AND EXAMINE EXISTING CONDITIONS AFFECTING THE WORK.</u> .2 CAREFULLY EXAMINE STRUCTURAL, MECHANICAL AND ARCHITECTURAL DRAWINGS, AND FULLY UNDERSTAND THE FUNCTIONING OF THE SYSTEM DESCRIBED AND SPECIFIED 	BURNING OF HOLES WILL NOT BE PERMITTED. .14 WIRING DEVICES SHALL BE SPECIFICATION GRADE, WITH WHITE FINISH COMPLETE WITH MULTIPLE GANG SUPER STAINLESS STEEL TYPE 302 PLATES, AND SHALL MATCH EXISTING ONES, UNLESS OTHERWISE NOTED.
	UNDER THIS SECTION. IF IN DOUBT, CONTACT THE ENGINEER BEFORE SUBMITTING THE TENDER PRICE. .3 NO ALLOWANCE WILL BE ALLOWED LATER DUE TO FAILURE OF THIS DIVISION TO MAKE VISIT TO SITE AND THIS EXAMINATION.	 .15 SIZES OF RACEWAYS AND CONDUIT SHALL BE ACCORDANCE WITH C.S.A., ONTARIO ELECTRICAL SAFETY AUTHORITY AND LOCAL AUTHORITIES STANDARDS. .16 CONDUIT SHALL BE OF SUCH A SIZE AND SHALL BE SO INSTALLED THAT THE REQUIRED CONDUCTORS MAY BE DRAWN IN WITHOUT STRAIN OR INJURY. C.S.A. APPROVED LUBRICANT MAY
	 .4 EXISTING ELECTRICAL EQUIPMENT WHICH BECOMES REDUNDANT SHALL BE COMPLETELY DISCONNECTED AND REMOVED FROM THE SITE. .5 WHERE INDICATED ON THE DRAWINGS REMOVE EQUIPMENT CAREFULLY AS NOT TO CAUSE 	BE USED WHERE NECESSARY. SIZE OF CONDUIT SHALL BE IN ACCORDANCE WITH THE DRAWINGS AND THE REQUIREMENTS OF THE ONTARIO ELECTRICAL SAFETY AUTHORITY AND LOCAL AUTHORITIES HAVING JURISDICTION AND THE LATEST EDITION OF THE ELECTRICAL SAFETY CODE.
	DAMAGE AND TRANSPORT IT TO A LOCATION ON SITE AS DESIGNATED BY THE GENERAL CONTRACTOR. .6 WHENEVER EXISTING ELECTRICALLY OPERATED EQUIPMENT IS REMOVED FROM ITS PRESENT LOCATION OR REINSTALLED ELSEWHERE, REMOVE REDUNDANT EXISTING CONDUITS, BOXES,	 18 WHICH LIGHTING FIXTURES, LAMPS, AND OTHER MATERIALS ARE DELIVERED. .18 THE SUPPORTS REQUIRED FOR MOUNTING AND INSTALLATION OF RECESSED LIGHTING FIXTURES SH SUPPLIED BY THIS DIVISION. THE SUPPORTS SHALL BE ATTACHED SECURELY TO THE BUILDING STF EXISTING CEILING SYSTEM, DUCTWORK, AND DUCTWORK SUPPORT SHALL NOT BE USED AS A SUPP MEANING CEILING SYSTEM, DUCTWORK, AND DUCTWORK SUPPORT SHALL NOT BE USED AS A SUPP
	CABLES, FIXTURES ETC. AND OPENINGS IN BOXES, RACEWAYS, PANEL ETC. WHICH MAY RESULT FROM SUCH REMOVAL OF EQUIPMENT, SHALL BE CLOSED IN PROPER MANNER AND ALL CABLES AND WIRES PROPERLY TERMINATED AND ISOLATED TO RESTORE THE SYSTEM TO A SAFE AND SOUND CONDITION AND TO THE ARCHITECT'S SATISFACTION.	MEANS. .19 TEST ALL PARTS OF THE RE-USED OR RELOCATED EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS. .20 PROVIDE SLEEVES OF GALVANIZED STEEL PIPE WITH MACHINE CUT
	.7 WHERE THE EXISTING EQUIPMENT IS NOT TO BE ULTIMATELY RELOCATED BUT INTERFERES WITH THE CONSTRUCTION, THE EQUIPMENT SHALL BE TEMPORARILY RELOCATED UNTIL SUCH TIME AS THE NEW WORK IS COMPLETED. SERVICES TO THE TEMPORARILY RELOCATED EQUIPMENT SHALL BE MAINTAINED AT ALL TIMES.	ENDS OF AMPLE SIZE TO ACCOMMODATE CONDUITS PASSING THROUGH WALLS, PARTITIONS, CEILINGS, FLOORS, ETC. .21 THE SPACE BETWEEN SLEEVE AND CONDUIT AND THE SPARE SLEEVES SHALL BE FILLED WITH DOW SILICONE RTV FOAM FOR FIRE STOP. CAULK AROUND THE TOP AND BOTTOM WITH APPROVED PERM
	 .8 TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS. .9 UNDER ALL CONDITIONS, EXISTING ELECTRICAL SERVICES, INCLUDING AUXILIARY SERVICES, SECURITY, COMPUTER, EA, DA, SYSTEMS, ETC. TO OPERATING PARTS OF THE PUBLINING SHALL NOT BE HAMPERED HINDER ANY. 	RESILIENT, NON-FLAMABLE AND WEATHERPROOF SILICONE BASE COMPOUND. 20. WIRES AND CABLES .1 ALL L.V. WIRES AND CABLES SHALL BE COPPER AND SHALL HAVE 600V INSULATION AND BE ALL L.V. WIRES AND CABLES SHALL BE COPPER AND SHALL HAVE 600V INSULATION AND BE
	 10 COORDINATE WITH GENERAL CONTRACTOR REGARDING SCAFFOLDING IN EXISTING BUILDING. 147 OLARGE ODENINGS TO 	WITH PROVINCIAL INSPECTION USED AND HAVE A CURRENT CARRYING CAPACITY IN ACCORDAN WITH PROVINCIAL INSPECTION DEPARTMENT STANDARDS. .2 NO WIRE SMALLER THAN #12 AWG SHALL BE USED ON LIGHTING & POWER CIRCUITS EXCEP FOR INTERNAL WIRING OF LIGHTING FIXTURES.
	13. CHASES. OPENINGS. ELC. .1 PROVIDE FOR OPENINGS IN WALLS, FLOORS, CEILINGS AND ROOFS AS REQUIRED, AND MAKE GOOD. .2 FLASHING REQUIRED FOR OPENINGS IN WALLS, FLOORS AND ROOFS WILL BE PROVIDED BY THIS	.3 CONTROL WIRE SHALL BE NO SMALLER THAN #18 AWG. .4 ALL WIRING TO BE COLOUR CODED AND SHALL BE IDENTIFIED WITH BRADY SELF- STICKING PERMACODE WIRE MARKERS.
	 JOINTSION, UNLESS OTHERWISE NOTED. JORILLING FOR HANGERS, RODS, INSERTS AND WORK OF A SIMILAR NATURE SHALL BE PROVIDED BY THIS DIVISION. PATCHING REQUIRED FOR WORK BY THIS DIVISION LINEFSS NOTED OTHERWISE WILL BE BY THIS 	.5 ALL JUINTS TO BE SECORELT FASTENED BY MEANS OF MARK CONNECTORS. 21. CONTACTORS: .1 CONTRACTORS (SHALL MATCH EXISTING) CONTROLLING BRANCH CIRCUITS SHALL BE TUNGSTEN RATED, EL
	DIVISION TO COMPLETE SATISFACTION OF THE ARCHITECT AND CONSULTANT. .5 X-RAY RE-INFORCED CONCRETE SLAB AND SLAB ON GRADE BEFORE CORE DRILLING/SAW CUTTING.	CONTACTORS SHALL BE IN SPRINKLER PROOF ENCLOSURE UNLESS OTHERWISE NOTED.

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ELECTRICAL	SPECIFICATION

5ft.

22. CONDUI

CUT ENDS OF AMPLE SIZE TIONS, CEILINGS, ROOFS, FLOORS, ETC. PARE SLEEVES SHALL BE FILLED ULK AROUND THE TOP AND

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SCALE 1/2"=1'-0"

8ft.

ELECTRICAL CONTRACTOR'S WORK E SATISFACTION OF THE

ST FOR X-RAY OF LOCATION FOR ALL CT LOCATION.

CRATES, ETC., RE DELIVERED. RECESSED LIGHTING FIXTURES SHALL BE D SECURELY TO THE BUILDING STRUCTURE. SHALL NOT BE USED AS A SUPPORTING

AND CORRECT

EEVES SHALL BE FILLED WITH DOW CORNING AND BOTTOM WITH APPROVED PERMANENTLY COMPOUND.

HAVE 600V INSULATION AND BE ARRYING CAPACITY IN ACCORDANCE

JITS SHALL BE TUNGSTEN RATED, ELECTRICALLY HE SIZE AND RATING SPECIFIED, COMPLETE WITH

NING LABEL AND ON/OFF/AUTO SELECTOR SWITCH. SS OTHERWISE NOTED. THE MINIMUM CONTINUOUS

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NOTED. MER, SIEMENS OR SQUARE 'D' MANUFACTURE.

- .1 RACEWAYS SHALL BE RIGID METAL CONDUIT, EMT OR FLEXIBLE CONDUIT AS SHOWN ON THE DRAWINGS. ALL CONDUIT WORK IN OR UNDER FLOOR SLAB SHALL BE RIGID PVC AND EMT WHERE RUN OVERHEAD AND ON/IN WALLS. .2 COUPLINGS AND CONNECTORS TO BE T & B STEEL RAINTIGHT. FOR OUTSIDE INSTALLATION
- AND SET SCREW TYPE FOR INSIDE INSTALLATION.

SCALE 1:200

- .3 ALL CONDUITS SHALL BE EMT AND SHALL BE RUN OVERHEAD. .4 USE OF RUNNING THREADS IS NOT PERMITTED
- .5 ALL CONDUITS MUST BE SECURELY FASTENED WITH APPROVED CLIPS AND SCREWS IN PARTITIONS AND CADDY CLIPS IN CEILING SPACE.
- .6 ALL CONDUITS, ETC. SHALL BE INSTALLED TO TAKE CARE OF EXPANSION AND APPROVED EXPANSION JOINTS SHALL BE INSTALLED WHERE REQUIRED WHETHER INDICATED OR NOT.

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SCALE 1:100

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- .7 <u>A SEPARATE GROUND WIRE SHALL BE INSTALLED IN ALL FLEXIBLE CONDUITS, EMT CONDUITS, UNDERGROUND</u> CONDUITS, IN WALL OR BELOW SLAB, AND IN ALL NON-METALLIC CONDUITS OR DUCTS.
- .8 RIGID P.V.C. CONDUIT SHALL BE A RIGID NON-METALLIC CONDUIT OF UNPLASTICIZED POLYVINYL CHLORIDE
- .9 RIGID METAL CONDUIT ENTERING BOXES IN IN WET LOCATIONS SHALL BE SECURED WITH STEEL BULLET HUB CONNECTORS, NYLON INSULATED WITH NEOPRENE 'O' RING.
- .10 CONDUITS EXPOSED TO THE WEATHER, IN WET LOCATIONS, SUBJECT TO MECHANICAL INJURY OR IN ANY HAZARDOUS LOCATIONS, SHALL BE RIGID METAL CONDUIT (RGS TYPE).

23. OUTLET BOXES

- .1 OUTLET BOXES INSTALLED INSIDE THE BUILDING SHALL BE ELECTRO-GALVANIZED AND MADE OF CODE GAUGE STEEL. WHEN SURFACE MOUNTED THEY SHALL BE 'FS' OR 'FD' FERALOY CONDULETS (EXCEPT. FOR STARTERS).
- .2 OUTLET BOXES INSTALLED OUTSIDE BUILDING SHALL BE WEATHER PROOF TYPE, WITH NEOPRENE GASKET AND CAST COVER.
- .3 OUTLET BOXES SHALL BE SECURELY FASTENED TO THE SURFACE ON WHICH THEY ARE MOUNTED. IF THE BOXES ARE NOT MOUNTED ON A SURFACE THEN ADEQUATE AND INDEPENDENT SUPPORTS MUST BE PROVIDED.
- .4 OUTLET BOXES SHALL BE PROVIDED FOR EACH RECESSED OR SURFACE MOUNTED LIGHTING FIXTURE.
- .5 MULTI-GANG OUTLET BOXES WITH SINGLE COVER PLATE SHALL BE USED WHERE
- SWITCHES ARE GROUPED. .6 ALL UNUSED OPENED KNOCKOUTS/OUTLET BOXES SHALL BE CLOSED WITH STEEL KNOCKOUT/PLATES PLUGS.

24. GROUNDING

- ALL NON-CURRENT CARRYING METAL PARTS SHALL BE GROUNDED IN ACCORDANCE WITH E.S.A., C.S.A. AND PROVINCIAL INSPECTION DEPARTMENT STANDARDS. .2 OPENING IN ALL ELECTRICAL METAL BOXES SHALL BE PUNCHED OR CUT. BURNING OF
- HOLES WILL NOT BE PERMITTED.
- .3 PROVIDE GROUNDING FOR THE COMPLETE INSTALLATION AS REQUIRED BY THE ELECTRICAL SAFETY CODE AND IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY AUTHORITY.
- .4 PROVIDE SEPARATE GROUND WIRE IN EACH RACEWAY/DUCT AND/OR EMT CONDUIT.
- .5 PROVIDE COMPLETE PERMANENT AND CONTINUOUS, SYSTEM AND EQUIPMENT GROUNDING SYSTEMS INCLUDING, GROUND RODS, CONDUCTORS, CONNECTORS, ACCESSORIES, TO CONFORM TO REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. .6 A SEPARATE COPPER WIRE SHALL BE INSTALLED IN ALL FLEXIBLE CONDUITS, EMT CONDUITS,
- IN ALL NON METALLIC CONDUITS AND IN ALL CONDUITS IN CONCRETE SLABS. 25. DEMOLITION
- .1 DEMOLITION OF EXISTING WALLS AND CEILINGS, WILL BE CARRIED OUT BY THE GENERAL
- CONTRACTOR UNDER A DEMOLITION CONTRACT .2 REMOVAL AND/OR RELOCATION OF EXISTING ELECTRICAL FIXTURES AND DEVICES WILL BE CARRIED OUT BY THIS CONTRACTOR.
- 26. FIRE ALARM
- .1 THE EXISTING FIRE ALARM SYSTEM (NOTIFIER) ADDRESSABLE PANEL SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.
- .2 EXISTING F.A. PANEL LOCATED ON GROUND FLOOR (SEE KEY PLAN) SHALL REMAIN. PROVIDE ALL ASSOCIATED COMPONENTS (I.E. DEVICES, MODULES, CONDUIT, WIRING ETC.) TO SUIT ADDITION/RELOCATION OF DEVICES AS SHOWN ON DRAWINGS.
- PROVIDE EXTENSION TO THE EXISTING FIRE ALARM SYSTEM AS SHOWN ON THE DRAWINGS
- COMPLETE WITH ALL COMPONENT, EQUIPMENT WIRING ETC. FOR A COMPLETE & OPERATING SYSTEM. .4 PROVIDE NEW F.A. DEVICES AS SHOWN ON THE DRAWINGS AND CONNECT TO THE EXISTING FIRE ALARM SYSTEM/F.A. SYSTEM DEVICE. PROVIDE ALL ASSOCIATED COMPONENTS TO SUIT.
- .5 NEW F.A. DEVICES SHALL MATCH EXISTING.
- .6 ALL WIRING SHALL HAVE COPPER CONDUCTORS. .7 RELOCATE/REMOVE EXISTING F.A. DEVICES AS SHOWN ON THE DRAWING. PROVIDE ALL REQUIRED
- COMPONENTS TO SUIT.
- .8 EXISTING FIRE ALARM GRAPHIC SHALL REMAIN.
- .9 EXISTING FIRE ALARM PANEL AND EXISTING F.A. ANNUNCIATOR SHALL BE MODIFIED TO SUIT ARCHITECTURAL MODIFICATION TO THE EXISTING BUILDING. ADJUST ALL COMPONENTS TO SUIT (SEE KEY PLAN).
- .10 ALL EQUIPMENT AND WIRING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AND MUST COMPLY WITH ULC STANDARD CAN/ULC-S524-14
- .11 THE dba READINGS SHALL BE PROVIDED BY THE FIRE ALARM SYSTEM VENDOR FOR ROOM HAVING AUDIBLE DEVICES IN THE BUILDING. THE TESTING REPORT SHALL BE PREPARED AND SUBMITTED FOR REVIEW BY THE CONSULTANT
- .12 A CERTIFICATE SHALL BE PROVIDED BY THE SYSTEM MANUFACTURER/INSTALLER UPON COMPLETION OF THE INSPECTION, VERIFYING THAT THE SYSTEM IS INSTALLED, TESTED, SUPERVISED AND OPERATES ACCORDING TO ALL CODES AND AUTHORITIES HAVING JURISDICTION. SUBMIT THE CERTIFICATION/VERIFICATION REPORT TO THE ARCHITECT/CONSULTANT FOR REVIEW.
- 27. SPRINKLER PROOF EQUIPMENT .1 ELECTRICAL EQUIPMENT INSTALLED SHALL BE SPRINKLERPROOF WHERE SPRINKLERS INSTALLED. IT SHALL BE CONSTRUCTED SO THAT WATER FROM THE SPRINKLER HEADS SHALL NOT
- IMPAIR THE EFFECTIVENESS OF THE EQUIPMENT. (PROVIDE DRIP HOOD DOOR AND GASKET TO SUIT) .2 A SEPARATE AND COMPLETE ROOF SHALL BE PROVIDED ON FREE STANDING OR SURFACE MOUNTED EQUIPMENT. AN OVERHANG AT THE FRONT, REAR AND SIDES SHALL PREVENT THE ENTRANCE OF WATER EITHER AT THE TOP OR THROUGH PROJECTING FACE PLATES, METERS, ETC.
- .3 WHERE OPENINGS ARE REQUIRED IN THE ROOFS OR SIDES OF INCOMING AND OUTGOING CONDUITS AND CABLES, REMOVABLE GASKETTED PLATES SHALL BE PROVIDED AND THE CONDUITS AND CABLES SHALL BE INSTALLED USING WATERPROOF FITTINGS. THE PLATES ARE TO BE GROUNDED BY A SEPARATE COPPER STRAP TO THE EQUIPMENT.
- 28. EXISTING LIGHTING / POWER PANELS .1 EXISTING LIGHTING AND POWER PANELS FOR 347/600 & 120/240V SYSTEM ARE LOCATED AS SHOWN ON DRAWINGS.
- .2 PROVIDE UPDATED TYPED PANEL DIRECTORIES AND NEW BREAKERS FOR EXISTING PANELS PART OF THIS CONTRACT. 29. WIRING DEVICES

- 4

- .1 ALL WIRING DEVICES INSTALLED UNDER THIS CONTRACT SHALL BE SPECIFICATION GRADE AND MANUFACTURED BY P & S, HUBBELL OR EQUAL. .2 LOCAL SWITCHES SHALL BE TOGGLE ROCKER TYPE A.C. RATED 20 AMPERES, 347 VOLTS OR 120 VOLTS
- QUIET-TYPE WITH SILENT OPERATING MECHANISM TOTALLY ENCLOSED IN A MOLDED COMPOSITION BASE. SWITCHES SHALL BE SINGLE POLE, THREE OR FOUR WAY AS INDICATED. WHERE LOCK TYPE LOCAL SWITCHES ARE INDICATED THESE SHALL BE SIMILAR TO THE ABOVE SPECIFICATION WITH KEY OPERATOR (SIMILAR TO LEVITON 1221-2KL). PROVIDE OWNER ONE (1) KEY FOR EACH SWITCH INSTALLED. .3 ALL RECEPTACLES INSTALLED IN THIS BUILDING SHALL BE GROUNDING TYPE WITH GROUNDING PIN SLOT
- CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.
- DUPLEX RECEPTACLES P & S 5252 SERIES (NEMA 5–15R), HUBBELL OR EQUAL
- .5 ALL COVER PLATES SHALL BE STAINLESS STEEL TYPE OR SHALL MATCH EXISTING. COORDINATE WITH THE ARCHITECT.
- .6 ALL WIRING DEVICES SHALL MATCH EXISTING TYPE. COORDINATE WITH ARCHITECT. .7 LIGHT SWITCHES AND RECEPTACLES ON NORMAL POWER SHALL BE WHITE UNLESS NOTED OTHERWISE. (COORDINATE WITH THE OWNER)

ON WORKMANSHIP AND PARTS AND 10 YEARS PRO-RATED ON BATTERIES. INSTALLATION.

30. EMERGENCY LIGHTING

- (LETTERING OR RUNNING MAN PICTOGRAM TYPE) BEFORE PLACING ORDER AND INSTALLATION.
- HARDWARE LIGHTING LEVELS IN AREA OF RENOVATIONS, MEASURED ON SITE.
- 31. P.A. SYSTEMS OPERATIONAL AT ALL TIMES DURING CONSTRUCTION.

- 32. TELEPHONE SYSTEM .1 THE EXISTING TELEPHONE SYSTEM SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES DURING CONSTRUCTION
- SHALL REMAIN.
- EMPTY CONDUITS AS SHOWN ON DRAWINGS. PROVIDE BLANK COVER PLATE
- 33. COMPUTER SYSTEM .1 THE EXISTING COMPUTER SYSTEM SHALL REMAIN AND SHALL BE OPERATIONAL AT ALL TIMES
- DURING CONSTRUCTION. EMPTY CONDUITS AS SHOWN ON DRAWINGS. PROVIDE BLANK COVER PLATE. 34. SECURITY SYSTEM

35. EXISTING LIGHTING / POWER PANELS

AS SHOWN ON DRAWINGS.

THIS CONTRACT.

36. LIGHTING FIXTURES

SCHEDULE.

DELIVERED.

APPROVAL.

FIXTURES

HEADS.

DIVISION.

37. LIGHTING FIXTURE SCHEDULE

ARCHITECT AT LATER DATE.

AS DESCRIBED BELOW:

DUCTS. ETC.

ABOVE FLOOR LEVEL

Revision: 0 21104