ELECTRICAL SPECIFICATIONS (DIVISION 16)

1.10 ERNERAL Center Requirements 1.1 Connect Requirements 1.2 Control with the requirements of the current edition of the Alberta Building Code, Electry with the requirements thereto, the Alberta Building Code, Electry Code (Sch 221) and anneadments thereto, the Alberta Building Code, Electrical Code (Sch 221) and anneadments thereto. 2. Examine present programment of complete electrical installation per drawings and specifications. 3. Supply all necessory labour, material and equipment for complete electrical installation per drawings and specifications. 4. Examine architectural drawings and those of other sections for complete information and co-ordination. 5. Examine architectural drawings and those specified, may be made ben Code and provide the section of materials, equivalent to those specified, may be made only after written approval has been obtained from the Engineer completion from the Engineer without charge any defective items, provided that failure is not due to improper usage by baters. 3. Shapit provings: 7 copies required to show details of main equipment items, including distribution equipment and aligning fixtures. 4. Receives and Conductors of Stappliers. 5. Record Drawings: during construction, on a set of white prints, mark any changes from the original contract accuments caused by site conditions and changes ordered appropriated. 3 fing minimum 2 binders, indexed, include equipment proclutes, shop drawings, names and addresses of suppliers. 6. Receives and Conductors of Conductors of Conductors and Conductors of Conductors. 7. Receives and Conductors of Conductors of Conductors of Conductors. 8. Conductors, copies, minimum #14 for 120 volts. Service resultions. The Proceedings of Code. 8. Received and the conductors of Conductors of Conductors. 8. Conductors of Code with the code of things. 9. Proceedings of Code of A Branch Circuit Panels A Branch Circuit Panels 1 600/347 or 208/120 volts, 3 phase, 4 wire branch panels, 42 cct. unless otherwise shown and as required complete with full size breakers as required. Typewritten directory inside door to have correct circuit information. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Branch Circuit Breakers: Full size breakers to match panel manufacturer and interrupting capacity. Manufacturer and protection switches: single or double pole, complete with pilot light and suitable "heaters". Automatic Magnetic Starters: 1, 2 or 3 pole, minimum EEMAC 0, in EEMAC 1 enclosure, c/w control transformer and auxiliary contacts as selector and red running light. Motor starters may be in separate enclosures or may be mounted in modular starter assemblies as Westinghouse 4-Plex units or similar. Main Service and Distribution to come from Mall Distribution system. Main Service to tenancy: 200 amps, 600/347 volts, 3 phase 4-wire. Fused main switch and splitter as shown. Provide a 1200 x 2400 x 19mm (4' x 8' x 3/4") plywood backing for main distribution equipment. Lighting System 1 Lighting fixtures: as shown on drawings complete with lamps and all necessary accessories for complete and proper installation. CSA approved, flourescent: minimum 20 gauge steel unless otherwise indicated. Flourescent ballasts to be energy saving type, and lamps to be T-8 energy saving type. 2 HID fixtures to be as indicated. Ballasts for exterior fixtures to be -30°C. Photo cell controlled exterior HID fixtures. 3 Plastic Lenses: 100% virgin acrylic, minimum 3/16" thick configuration as per schedule. 4 Exit Lights: Complete with LED lamps, metal housing, 6" high letters, 120V and 12V operation. .5 Battery Operated Emergency Lighting — Combination Emergency/Exit Lighting: Full automatic operation on power failure for (12) volt operation with minimum operating time of one half hour with all (9) watts sealed beams on. Units complete with battery rated at minimum 36 watts, fully automatic charger with automatic high and low rates, built—in test switch, remote and local 9w tungsten mini—lights (white) high rate charge indicator, battery state indicator, mounting bracket, automatic disconnection at low—charge condition and 5 year guarantee. Disconnect Switches: non—fused, for motor driven equipment, EEMAC 3 for exterior. Telephone Distribution System .1 Service receway: 100mm conduit from mall telephone distribution to a GIS plywood backboard 1200mm x 2400mm x 19mm (4' x 8' x 3/4"). Provide pull rope in raceway. .2 Supply and install the conduit system where shown. Service Ground Ground conductor from mall distribution. 3.0 EXECUTION 3.1 Installation .1 All work to all outlets, s 6 Wiring of Mechanica electrical equipmer This includes break complete connectic Confirm voltage, p size breakers and 7 Lighting System 1 Install all fixtures wiring, hangers, including control and 12 volt DC 2 Cooperate with plocation of light the electrical in layout, etc., det mechanical area been finalized; of the allocation of light the plocation of light the electrical in layout, etc., det mechanical area been finalized; of the allocation of light the electrical area been finalized; of the electrical area .4 Turn off 120 volt before the verif 24 hours before continuous oper of 120 volt AC .5 Provide an alarm remote alarm n.6 Separate trouble tamper swithces .1 Re-install existing .2 Provide continuou .3 System verification equipment inclusionstallation is 1 Fire Alarm System NOTE; THE BASE E AND INSTALLATION

ALL ELECTRICAL OUTLET PLUG SHALL BE LOCATED AT 12" A.F.F. UNLESS NOTE OTHERWISE. MAXIMUM OF FOUR (4) PLUGS PER 15 AMP BREAKER UNLESS NOTED OTHERWISE.	rminal board. rminal board, 120 volt duplex and no. 6 ground wire iin ground.
NOTE: ELECTRICAL CONTRACTOR SHALL REVIEW DIVISION 15 PLANS AND SPECIFICATIONS TO DETERMINE THE COMPLETE SCOPE OF WORK REQUIRED TO CONNECT ALL MECHANICAL COMPONENTS TO THE BUILDING ELECTRICAL SYSTEM.	with the
	zone per sprinkler flow switches. N/A le and supervisory trouble signal only for ces (Supervisory requires a panel re—set). N/A will invoice Visions Electronics Ltd. for the fire alarm verification.
	roll power to the rire Aldrin System for 24 hours erification. System to operate on standby battery supply for fore verification, during verification testing, and for peration of all alarm signal devices before restoration AC power. AC power. AC monitoring.
	device outlet boxes. 37. Provide all personnel, lios, and materials for verific
	M Shall addressable and monitored BUILDING FIRE ALARM COMPANY SHALL BE USED FOR SUPPLY N ON ALL COMPONENTS AND WORK UNDER THIS PHASE OF THE PROJECT.
	ures per the schedule and as indicated, conduit system, and all necessary items required for a complete system trol (switches, contractors, etc) Run 120 volt AC DC power into exit lights. DC power into exit lights. In personnel of other divisions to determine the proper ghts, switches, etc., to avoid confliction between installation and the mechanical ducts, pipes, ceiling determine exact position of lighting outlets in the area only after all mechanical layouts in these rooms have irea only after suit the type of ceiling in or on
	s type ground connectors. Maintain continuity of ground, switches, controllers, notors, F.A. devices, etc. nical Equipment: supply and install necessary nent, power and control wiring for mechanical equipment. reakers, disconnects, starters, conduit, wiring and ction. Refer to Mechanical drawings, schedules and specifications. , phase, and size of mechanical equipment; nd feeders per C.E.C.
	wing electrical equipment with 3mm thick plastic, faced lamacoid nameplates with mechanical fixings: Itify breaker panels, as indicated on drawings and n voltages. n voltages. akers, disconnect switches, starters, contactors: ipment being controlled and voltage. Inets and pullboxes: indicate system and voltage. nes: Indicate areas being served.
	high quality. Clean up all debris from electrical project. The installation to meet the latest the Canadian Electrical Code, Provincial, Municipal and d Local Inspection Department. The condition of 3000 mm from locations shown for outlets on of 3000 mm from locations shown for outlets without extra cost. Confirm final location prior to

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ALBERTA BUILDING CODE — 2006

ALBERTA FIRE CODE — LATEST EDITION

CANADIAN ELECTRICAL CODE — LATEST EDITION

NATIONAL BUILDING CODE — LATEST EDITION

NATIONAL FIRE CODE — LATEST EDITION

NFPA—13 & ALL OTHER APPLICALBE NFPA SECTIONS

CANADIAN PLUMBING CODE — LATEST EDITION

NATURAL GAS INSTALLATION CODE CGA—B149

SMACNA PLANS EXAMINATION:

PLANS EXAMINATION:

BY THE AUTHORITY HAVING JURISDICTION. THIS AUTHORITY, BASED ON APPLICABLE CODES, MAY REQUIRE REVISIONS AND/OR ADDITIONS AND THIS MAY RESULT IN EXTRA SITE SAFETY:

THE ENGINEERS ASSUME NO RESPONSIBILITY FOR ON-SITE WORKER SAFETY FOR OT THAN THEIR OWN EMPLOYEES. THE OWNER AND/OR CONTRACTOR SHALL BEAR RESPONSIBILITY FOR SITE SAFETY AS PER THE OCCUPATIONAL HEALTH AND SAFETY ACT. FIELD REVIEW:

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R. Lamontagne. P. Eng. P.O. Box 2531 Didsbury, Alberta, TOM 0W0 Tel: (403) 703 6161 E MAIL: ralamont@shaw,ca
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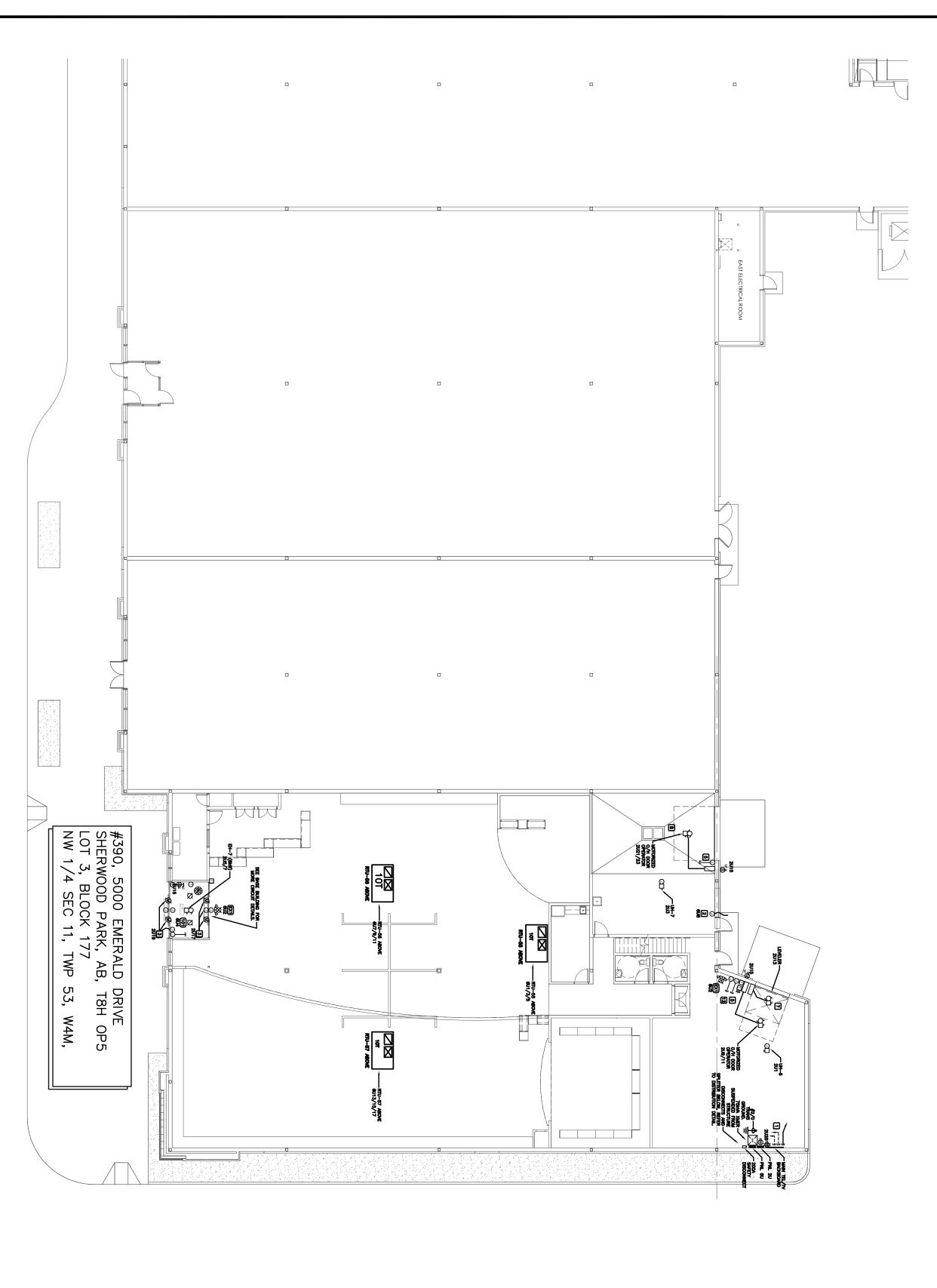
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SPECIFICATIONS

PROJECT
VISIONS — EMERALD HILL CENTRE
390, 5000 EMERALD DRIVE
SHERWOOD PARK, AB, T8H 0P5

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	34 -	15	-		+	33	15	_	-
	32 -	15	-			31 -	15	_	1
	30 -	15	_	+		29	15	_	-
	28 -	15	_	<u>'</u>	+	27	15	_	1
	26 –	15	-			25 -	15	_	EX. TELEPHONE/TV BACKBOARD
	24 -	15	1	+		23	15	1	EX. DOOR OPERATOR
	22 -	15	1	_	 	21	15	1	EX. DOOR OPERATOR
	20 -	15	1			19 -	15	1	EX. AUTOMATIC DOORS
	18 -	15	1	+	1	17	15	1	EX. AUTOMATIC DOORS
	16 -	15	_		+	15	15		EX. WP RECEPTACLE
	14		-	Ė		13 -	40	1	EX. DOCK LEVER
	12 -	15	-	+		11	15	1	EX. DOOR OPERATOR
	10 -	15	1			9	15	1	
	8 –	15	1		+	7 -	50	1	EX. ELECT. HEATER EH-7
	6 -	15	1	+	+	5	50	1	EX. ELECT. HEATER EH-7
. LIGHTING	4 EX.	15	1	_	 	3	15	1	EX. UNIT HEATER UH-7
	2 -	15	_			<u> </u>	15	1	EX. UNIT HEATER UH-6
DESCIPTION	POLE	AMP.	NO.	- \[\frac{12}{5}	- <u>2</u> - <u>1</u>	NO.	AMP.	POLE	DESCIPTION
		-		<u>;</u>]		1			NOTES:
4 - #3/000	66					200A	4	3	
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E2

EXISTING 1/8"=1'-0"

BASE

BUILDING

POWER

NOTE:

ELECTRICAL CONTRACTOR SHALL REVIEW DIVISION 15 PLANS AND SPECIFICATIONS
TO DETERMINE THE COMPLETE SCOPE OF WORK REQUIRED TO CONNECT ALL
MECHANICAL COMPONENTS TO THE BUILDING ELECTRICAL SYSTEM.
ALL ELECTRICAL OUTLET PLUG SHALL BE LOCATED AT 12" A.F.F. UNLESS NOTE OTHERWISE.
MAXIMUM OF FOUR (4) PLUGS PER 15 AMP BREAKER UNLESS NOTED OTHERWISE.
INFORMATION SHOWN ON THIS PLAN 1\E2 WAS COPIED FROM THE BASE BUILDING PLANS,
AND RICHARD LAMONTAGNE, P. Eng. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

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TENDER PERMIT		REVISIONS	EDING WITH ANY PART OF THE WORK.	DRAWING REVIEW: DRAWING NUST NOT BE SCALED. THE CONTRACTOR MUST CROSS-REFERENCE ALL ARCHITECTURAL, STRUCTURAL, FOUNDATION, ELECTRICAL AND MECHANICAL DRAWINGS AND VERIFY ALL DIMENSIONS, DRAWINGS AND SPECIFICATIONS ON SITE. ANY AND VERIFY ALL DIMENSIONS, DRAWINGS AND SPECIFICATIONS ON SITE. ANY AND VERIFY ALL DIMENSIONS, DRAWINGS AND SPECIFICATIONS ON SITE. ANY AND VERIFY ALL DIMENSIONS, DRAWINGS AND SPECIFICATIONS ON SITE. AND TO SECURITARIES TO SERVE A SECURITARIES OF THE ADMINISTRATION OF THE ADMINI	COPYRIGHTS: COPYRIGHTS: LEAD DRAWINGS, DESIGNS AND RELATED DOCUMENTS ARE THE PROPERTY OF THE ENGINEERS, PROTECTED BY COPYRIGHT AND MUST BE RETURNED ON REQUEST. REPRODUCTION OF DRAWINGS AND DOCUMENTS IN PART OR IN WHOLE IS FORBIDDEN WITHOUT THE ENGINEERS' PERMISSION. DRAWINGS AND DOCUMENTS ARE ISSUED AND ARE TO BE USED ONLY FOR THE PURPOSE FOR WHICH THEY ARE ISSUED AND ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SIGNED BY THE ENGINEER.	PLANS EXAMINATION: PLANS EXAMINATION: PLANS EXAMINATION: PROVIDE CONSTRUCTION UNTIL REVIEWED AND APPROVED BY THE AUTHORITY, BASED ON APPLICABLE CODES, MAY REQUIRE REVISIONS AND/OR ADDITIONS AND THIS MAY RESULT IN EXTRA COSTS. THESE COSTS ARE UNFORESEEN AND THEREFORE, ARE THE RESPONSIBILITY OF THE OWNER AND/OR CONTRACTOR.	SITE SAFETY: THE ENGINEERS ASSUME NO RESPONSIBILITY FOR ON-SITE WORKER SAFETY FOR CITHAN THEIR OWN EMPLOYEES. THE OWNER AND/OR CONTRACTOR SHALL BEAR RESPONSIBILITY FOR SITE SAFETY AS PER THE OCCUPATIONAL HEALTH AND SAFETY ACT.	FIELD REVIEW: THE ENGINEERS HAVE BEEN RETAINED ONLY FOR PERIODIC SITE ENSURE GENERAL COMPLIANCE OF THE REVIEWED PORTIONS OF THE CONTRACT DOCUMENTS.	ALBERTA BUILDING CODE — 2006 ALBERTA FIRE CODE — LATEST EDITION CANADIAN ELECTRICAL CODE — LATEST EDITION NATIONAL BUILDING CODE — LATEST EDITION NATIONAL FIRE CODE — LATEST EDITION NFPA—13 & ALL OTHER APPLICALBE NFPA SEC CANADIAN PLUMBING CODE — LATEST EDITION NATURAL GAS INSTALLATION CODE CGA—B149 SMACNA
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DESIGN & INSTALL ALL MECHANICAL SYSTEMS TO THE FOLLOWING CODES AND STANDARDS.

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SCALE
AS SHOWN
DRAWN BY

DATE
MAY 02, 2012
CHECKED BY

2 円

DRAWING

NO.

TITLE EXISTING

BASE BUILDING POWER

PROJECT
VISIONS — EMERALD HILL CENTRE #390, 5000 EMERALD DRIVE
SHERWOOD PARK, AB, T8H 0P5

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Eng.

. Lamontagne. P. Eng P.O. Box 2531 Didsbury, Alberta, TOM 0W0 Tel: (403) 703 6161 E MAIL: ralamont@shaw,ca

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