ADDENDUM NO.: 3 DOCUMENT 00 90 01

JULY 20, 2015 FEDERAL BUILDING ARVIAT, NUNAVUT

Parkin Architects Limited 20 James Street, Suite 200 Ottawa, Ontario, K2P0T6

Tel: (613) 739-7700; Fax: (613) 739-7780

1.1 ADDENDUM

.1 INTENT

- .1 This Addendum is issued during Bidding and shall form part of Bidding and Contract Documents for above Project.
- .2 Except as otherwise specified herein, work required by this Addendum shall be in accordance with specifications dated April 07, 2015 and Drawings accompanying same and previously issued Addenda (if any).

1.2 <u>CIVIL - DRAWINGS</u>

.1 N/A

1.3 ARCHITECTURAL - SPECIFICATIONS- DIVISIONS 0 TO 33 INCLUSIVE

- .1 DOCUMENT 11 24 24, FALL ARREST ANCHOR SYSTEM- VOLUME 2
 - .1 Delete Section 11 24 24, FALL ARREST ANCHOR SYSTEM in its entirety.

1.4 <u>ARCHITECTURAL - DRAWINGS</u>

- .1 DRAWING NO: 1408-A501
 - .1 Drawing No. 1408-A501 is modified as follows by attached Sheet Number: 1408-A501.2, dated July 20, 2015.
- .2 DRAWING NO: 1408-A2001
 - .1 Drawing No. 1408-A2001 is modified as follows by attached Sheet Number: 1408-A2001.1, dated July 20, 2015.

1.5 <u>STRUCTURAL – SPECIFICATIONS</u>

- .1 DOCUMENT 05 17 00, STEEL ROD SYSTEM VOLUME 1
 - .1 Add new Section 05 17 00 STEEL ROD SYSTEM, appended to this Addendum.

1.6 STRUCTURAL – DRAWINGS

- .1 DRAWING NO: \$001
 - .1 Drawing No. S001 is modified as follows by attached sketch: S001.02, dated July 20, 2015.
- .2 DRAWING NO: S200
 - .1 Drawing No. S200 is modified as follows by attached Sheet Number: S200, dated July 20, 2015.
- .3 DRAWING NO: S502.01
 - .1 Drawing No. S502 is modified as follows by attached sketch: S502.01, dated July 20, 2015.

.4 DRAWING NO: \$502.02

.1 Drawing No. S502 is modified as follows by attached sketch: S502.02, dated July 20, 2015.

.5 DRAWING NO: \$502.03

.1 Drawing No. S502 is modified as follows by attached sketch: S502.03, dated July 20, 2015.

.6 DRAWING NO: \$502.04

.1 Drawing No. S001 is modified as follows by attached sketch: S502.04, dated July 20, 2015.

1.7 MECHANICAL – DRAWINGS

.1 DRAWING NO: M610

.1 Drawing No. M610 is modified as follows; Pump Schedule, Pump P-2 required head to read: 13.8m and **45ft** rather than 13.8m and 75ft head.

1.8 <u>ELECTRICAL- DRAWINGS</u>

.1 DRAWING NO: E001

.1 Drawing No. E001 is modified as follows by attached Sheet Number: E001, dated July 15, 2015.

.2 DRAWING NO: E002

.1 Drawing No. E002 is modified as follows by attached Sheet Number: E002, dated July 15, 2015.

.3 DRAWING NO: E100

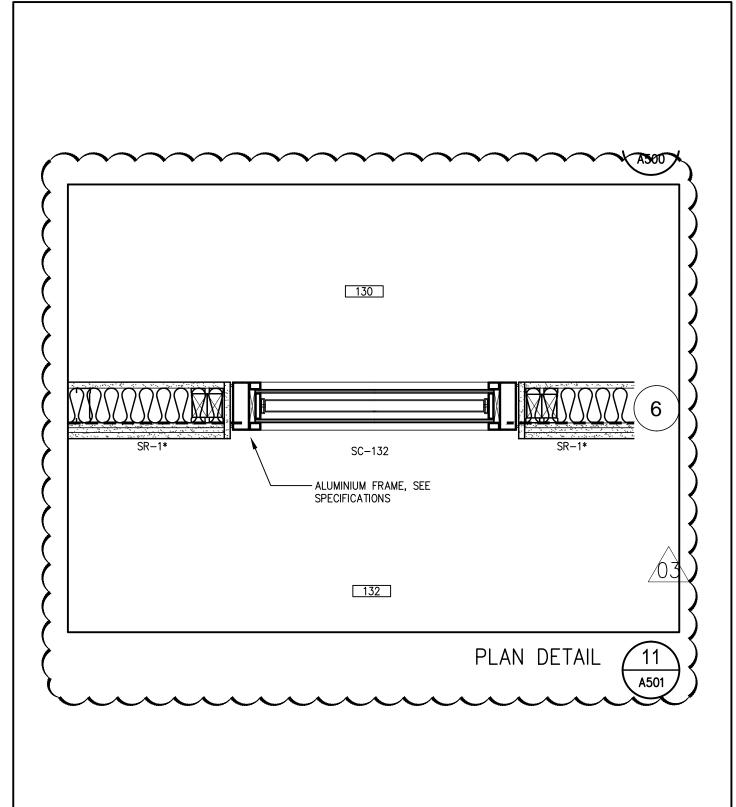
.1 Drawing No. E100 is modified as follows by attached Sheet Number: E100, dated July 15, 2015.

List of Attachments:

PDF Files

Architectural Drawings 2 Pages
Structural Specifications 4 Pages
Structural Drawings 6 Pages
Electrical Drawings 3 Pages

END OF ADDENDUM



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Sheet Title: PARTIAL INTERIOR PLAN DETAIL

Project:

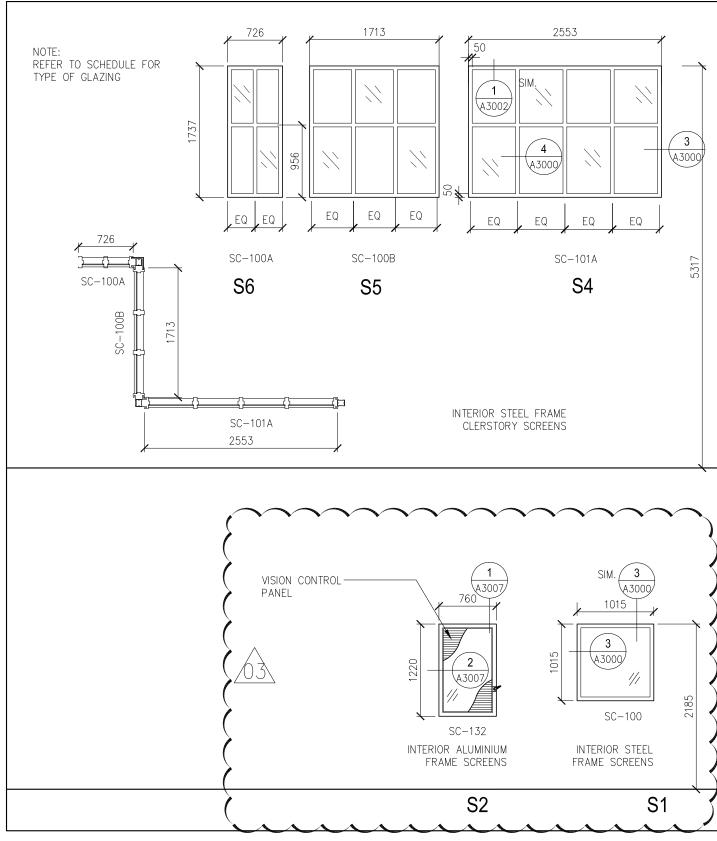
FEDERAL BUILDING ARVIAT, NUNAVUT



2015/07/20

Drawn By: Revision: ADDENDUM #3

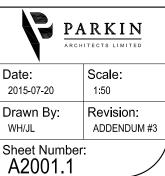
Sheet Number: 1408-A501.2





Project:

Federal Building
Arviat, NUNAVUT
PROJECT No: 1408-00



FEDERAL BUILDING	STEEL ROD SYSTEM	Section 05 17 00
Arviat, NU		Page 1
Project #1408		Apr 07, 2015

PART 1 - GENERAL

1.1 SECTION INCLUDES

- .1 This section covers Halfen Anchoring Systems "DETAN" steel tension.
- .2 Carbon Steel Rod System:
 - .1 Tension rods.
 - .2 Cross couplers.
 - .3 Fork connectors.
 - .4 Connecting plates.

1.2 RELATED REQUIREMENTS

.1 Section 05 12 23 - Structural Steel for Buildings.

1.3 REFERENCE STANDARDS

- .1 ASTM A572/A572M Standard Specification for High-Strength Low-Alloy Columbium-Vanadium Structural Steel.
- .2 ASTM A666 Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- .3 ASTM A694/A694M Standard Specification for Carbon and Alloy Steel Forgings for Pipe Flanges, Fittings, Valves, and Parts for High-Pressure Transmission Service.

1.4 PREINSTALLATION MEETINGS

- .1 Convene pre-installation meeting 2 weeks before start of work of this section.
- .2 Require attendance of parties directly affecting work of this section, including Contractor, Architect, Engineer, installer, and manufacturer's representative.
- .3 Review materials, installation, field quality control, protection, and coordination with other work.

1.5 SUBMITTALS

- .1 Comply with Section 01 33 00 Submittal Procedures.
- .2 Product Data: Submit manufacturer's product data, including installation instructions.
- .3 Shop Drawings: Submit manufacturer's shop drawings, detailing

FEDERAL BUILDING	STEEL ROD SYSTEM	Section 05 17 00
Arviat, NU		Page 2
Project #1408		Apr 07, 2015

installation procedures, including layout, dimensions and placement of tension rods, couplers, anchor discs, fork connectors, connection plates, and compression rods.

.4 Warranty Documentation: Submit manufacturer's standard warranty.

1.6 QUALITY ASSURANCE

.1 Installer's Qualifications: Installer experienced in performing work of this section.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Ordering: Comply with manufacturer's ordering instructions and lead time requirements to avoid construction delays.
- .2 Delivery and Acceptance Requirements: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- .3 Storage and Handling Requirements:
 - .1 Store and handle materials in accordance with manufacturer's instructions.
 - .2 Keep materials in manufacturer's original, unopened containers and packaging until installation.
 - .3 Store materials in clean, dry area protected from weather.
 - .4 Protect materials and finish during storage, handling, and installation to prevent damage.

PART 2 - PRODUCTS

2.1 MANUFACTURER

.1 Halfen USA Inc., 8521 FM 1976, P.O. Box 547, Converse, TX 78109. Toll Free 800-423-9140. Fax 888-277-1695. www.halfenusa.com. info@halfenusa.com.

2.2 MATERIALS

- .1 Rod System: Halfen "DETAN" rod system.
- .2 Carbon Steel System: "DETAN-S460".
 - .1 Tension Rods:
 - .1 Material: Carbon steel S460, DIN EN 10025, ASTM A572.
 - .2 Finish: Hot-dip galvanized.
 - .3 Diameter: 24 mm (15/16 inch).

FEDERAL BUILDING	STEEL ROD SYSTEM	Section 05 17 00
Arviat, NU		Page 3
Project #1408		Apr 07, 2015

- .4 Length: as per Drawing S200.
- .2 Couplers:
 - .1 Material: Dacrometized, carbon steel, Grade S355 with 355 MPa (51,000 psi) minimum yield strength, DIN EN 10025.
 - .2 Diameter: matches the main tension rod diameter.
 - .3 Length: matches the main tension rod diameter.
- .3 Fork Connectors:
 - .1 Material: Dacrometized, cast steel, G20 Mn5+QT, EN 10293.
- .4 Connecting Plates: (Connecting plates are not manufactured as part of the DETAN system. They must be fabricated and obtained from other manufacturers.)
 - .1 Material: ASTM A572, Grade 50.
 - .2 Finned for welding to steelwork.
 - .3 Size: as per drawings S200, S502.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Examine area to receive bracing for compliance with installation clearances.
- .2 Verify substrate conditions are acceptable for product installation.
- .3 Notify Architect of conditions that would adversely affect installation.
- .4 Do not begin installation until unacceptable conditions are corrected.

3.2 INSTALLATION

- .1 Install rod system in accordance with manufacturer's instructions at locations indicated on the Drawings.
- .2 Fully screw rod system locknut on rod until rod markings are not visible.
- .3 Screw fork connector on tension rod to required system length.
- .4 Screw locknut back toward fork connector until locked.
- .5 Install snap rings with snap-ring pliers on each side of pin in fork connector.
- .6 Position connection plates to not subject rod system to bending.
- .7 Align and position forks in same plane.
 - .1 Maximum Misalignment: 0.5 degrees.

FEDERAL BUILDING	STEEL ROD SYSTEM	Section 05 17 00
Arviat, NU		Page 4
Project #1408		Apr 07, 2015

3.3 FIELD QUALITY CONTROL

- .1 Inspections:
 - .1 Inspect completed rod system for proper locknut screw-in depth, after installation and before final acceptance.
 - .2 Report component damage to Architect and manufacturer.
 - .3 Ensure markings on rods are covered by locknut to achieve minimum screw-in depth.

3.4 PROTECTION

- .1 Protect installed rod system from damage during construction.
- .2 Touch-up damage to factory-applied finishes using appropriate materials and techniques.

END OF SECTION

STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL CONFORM TO CSA STANDARD G40.21-300W FOR PLATES AND 1) ANGLES AND TO G40.21-350W FOR REMAINDER.
- 2) FABRICATION AND ERECTION SHALL CONFIRM TO CSA STANDARD S16 (LATEST).
- 3) ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS FULLY APPROVED FOR STRUCTURAL WELDING BY THE CANADIAN WELDING BUREAU IN ACCORDANCE WITH CSA SPECIFICATIONS W47 AND W59.
- 4) DESIGN AND FABRICATE ALL CONNECTIONS FOR THE FULL STRENGTH OF THE MEMBER.
- 5) SPLICING OF MEMBERS IS NOT PERMITTED UNLESS OTHERWISE NOTED.
- WHERE BEAMS ARE CONTINUOUS OVER SUPPORTS, NO HOLES ARE PERMITTED IN THE TOP 6) FLANGE. PROVIDE TWO 10mm WELDED WEB STIFFENER PLATES EACH SIDE OF BEAM, ALIGNED WITH COLUMN WALLS, UNLESS OTHERWISE NOTED.
- COLUMN BASE AND CAP PLATES SHALL BE FULLY WELDED ALL AROUND. 7) PROVIDE 19mm CAP PLATE WITH FOUR 19mm (3/4") DIAMETER BOLTS FOR ALL COLUMNS SUPPORTING CANTILEVERED BEAMS.
- 8) ALL STRUCTURAL STEEL BELOW GRADE AND EXPOSED TO EXTERIOR ENVIRONMENTS SHALL BE HOT DIPPED GALVANIZED.
- SUPPLY ALL COMPONENTS WITH 1 COAT OF SHOP PRIMER CONFORMING TO C.I.S.C./C.P.M.A. 9) 1-73A OR EQUIVALENT UNLESS NOTED OTHERWISE.
- 10) STRUCTURAL STEEL ERECTOR SHALL SUPPLY AND INSTALL ALL TEMPORARY GUYING AND BRACING NECESSARY TO PROVIDE STABILITY FOR THE STRUCTURE AS A WHOLE. THESE SHALL REMAIN IN PLACE UNTIL FLOOR SLABS ARE WELL CURED, STEEL ROOF DECK IS FULLY WELDED AND / OR PERMANENT BRACING IS INSTALLED. TEMPORARY BRACING AND GUY-WIRES ARE DESIGNED BY STRUCTURAL STEEL SUPPLIERS PROFESSIONAL ENGINEER REGISTERED IN THE TERRITORY OF NUNAVUT, AND HOLDS A CURRENT "PERMIT TO PRACTICE" IN NUNAVUT.
- ALL STEEL STAIRS, RAMPS, GUARD RAILS, HANDRAILS, PLATFORMS AND WIRE MESH INFILL 11) SHALL BE DESIGNED & DETAILED BY STRUCTURAL STEEL FABRICATOR'S ENGINEER. FABRICATOR SHALL SUBMIT SHOP DRAWINGS UNDER THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE TERRITORY OF NUNAVUT AND HOLDS A "PERMIT TO PRACTICE" OF NAPEG. DRAWINGS SHALL BE SUBMITTED TO THE DESIGN ENGINEER OF RECORD PRIOR TO START OF FABRICATION.
- 12) FOR ALL PERIMETER LOAD-BEARING BEAMS, PROVIDE BOTTOM FLANGE BRACE TO ROOF/FLOOR DIAPHRAGM AT MAXIMUM SPACING OF 3000mm.

13) TWO EXPOSED CROSS BRACINGS WILL BE PROVIDED BY HALFEN ANCHORING SYSTEM "DETAN" STEEL TENSION ROD SYSTEM. EACH BRACE SHALL CONSIST OF ONE VARIANT WITH CROSS COUPLER AND ONE BASIC SYSTEM. 3 - 24mm DIAMETER TENSION RODS, 4 - FORK CONNECTION SETS & 1 - CROSS COUPLER SET. NR,d = 120 kN.



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Sheet Title: ADDENDUM NO. 3

REFERENCE DRAWING: S001

DESIGN SPECIFICATION & DRAWING NOTES

Project: FEDERAL BUILDING

ARVIAT, NUNAVUT

Date:

JUL 20 2015

1:50

Scale:

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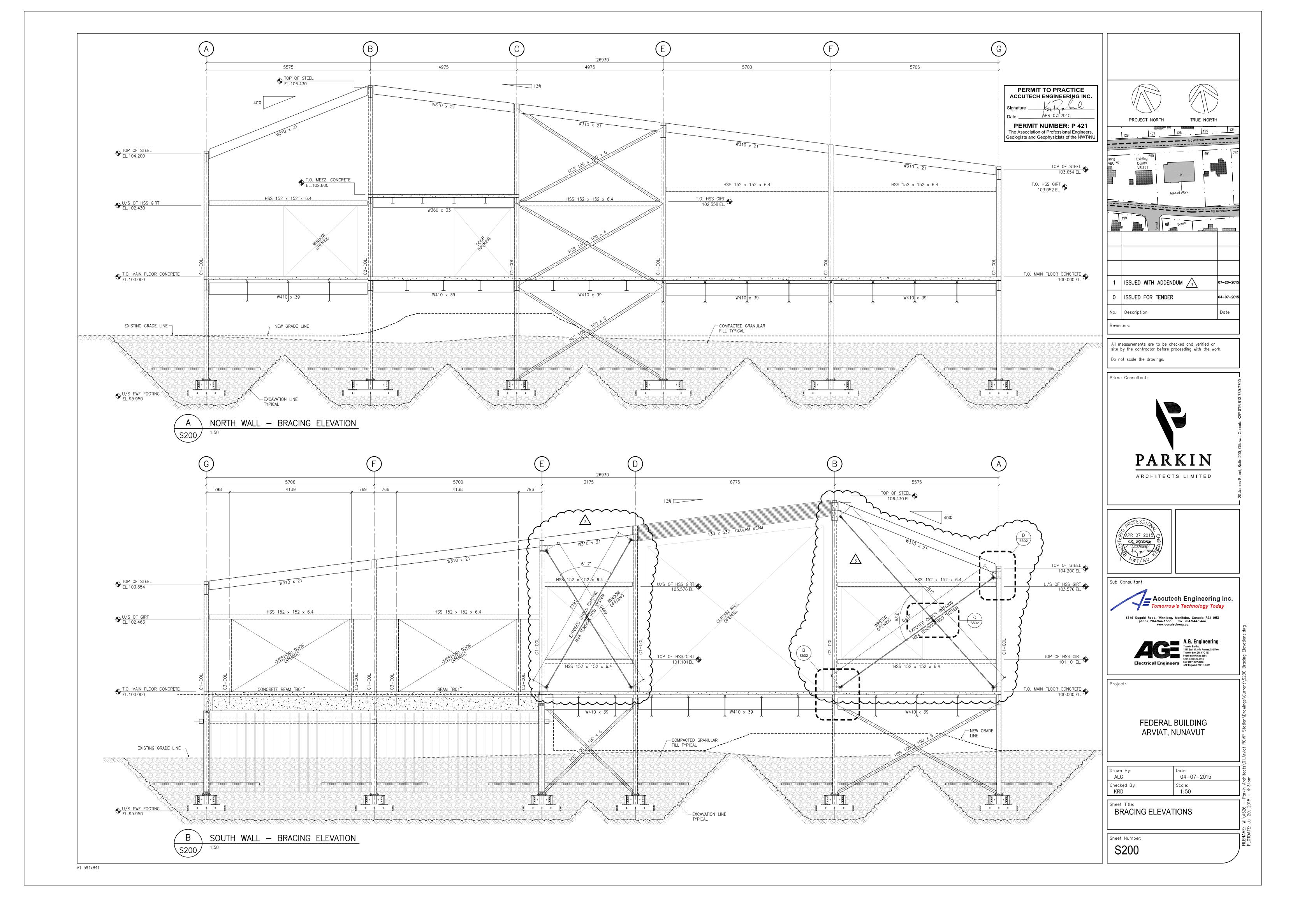
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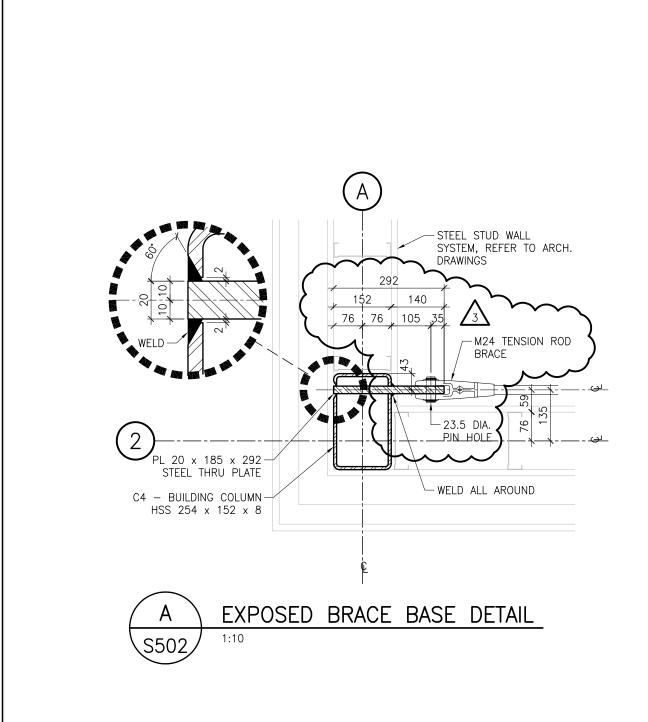
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Sheet Number:

62601

SR-S001.02





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Sheet Title: ADDENDUM NO. 3

REFERENCE DRAWING: S502 DETAILS

DETAILS

Project: FEDERAL BUILDING

ARVIAT, NUNAVUT

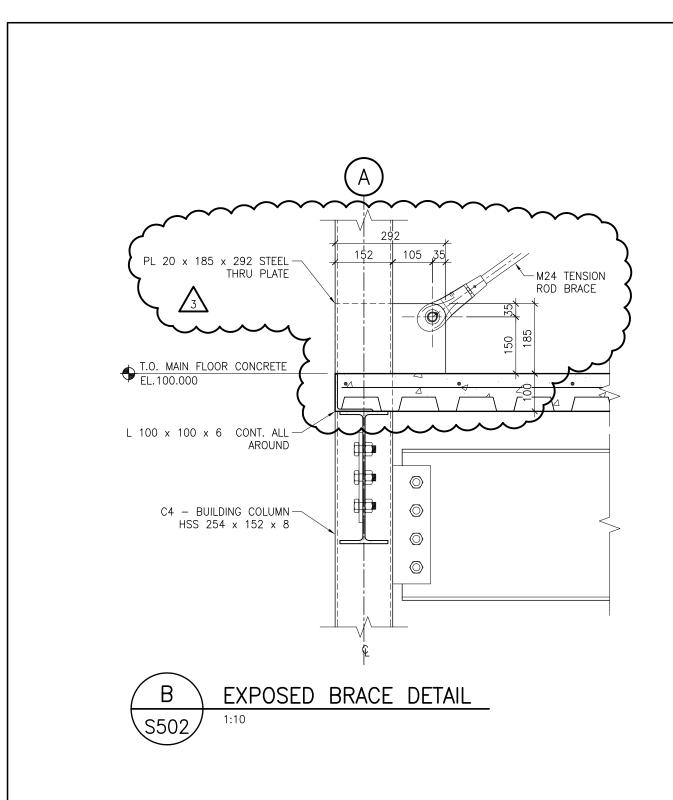
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 SR-S502.01





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Sheet Title: ADDENDUM NO. 3

REFERENCE DRAWING: S502

DETAILS

Project: FEDERAL BUILDING

ARVIAT, NUNAVUT

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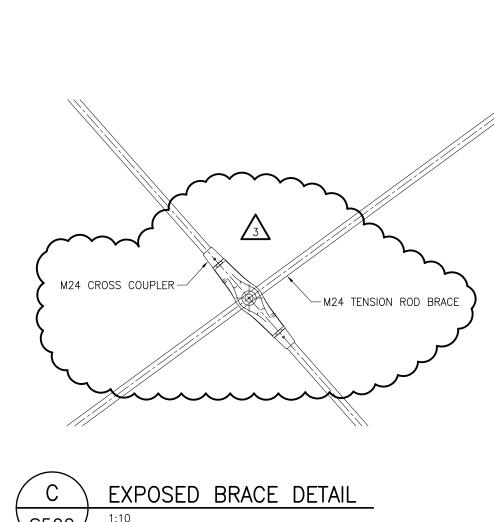
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 Job Number:
 Sheet Number:

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 SR-S502.02







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Sheet Title:

ADDENDUM NO. 3 REFERENCE DRAWING: S502 **DETAILS**

Project: FEDERAL BUILDING

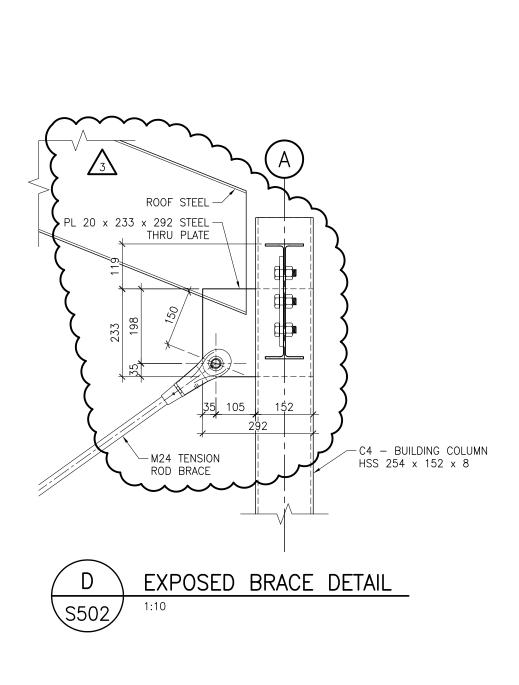
ARVIAT, NUNAVUT

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Drawn By: Revision: ALG

Sheet Number: Job Number: SR-S502.03 62601





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Sheet Title:

ADDENDUM NO. 3 REFERENCE DRAWING: S502 **DETAILS**

Project: FEDERAL BUILDING

ARVIAT, NUNAVUT

Date:

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Drawn By: Revision: ALG

Job Number: Sheet Number: SR-S502.04 62601

GENERAL ELECTRICAL SPECIFICATIONS

- INSTALLATION SHALL BE IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE ELECTRICAL SAFETY CODE LATEST EDITION & ALL OTHER APPLICABLE CODES & REGULATIONS.
- 2. ALL EQUIPMENT SHALL BE NEW AND CSA CERTIFIED.
- ELECTRICAL CONTRACTOR SHALL SUPPLY EQUIPMENT AS SPECIFIED AS WELL AS ANY MISCELLANEOUS TO COMPLETE THE WORK.
- 4. IDENTIFY ELECTRICAL EQUIPMENT WITH PROPER NAMEPLATES. IDENTIFY ALL WIRING, MAINTAIN PHASE SEQUENCE & COLOUR CODING.
- 5. CONTRACTOR TO FURNISH CERTIFICATES OF ACCEPTANCE FROM THE ELECTRICAL INSPECTION DEPARTMENT UPON COMPLETION OF WORK TO THE ENGINEER. VERIFY F/A SYSTEM BY QUALIFIED PERSONNEL. CONDUCT
- AUDITORY TEST UPON COMPLETION.

 6. ALL WIRING SHALL BE MIN. #12 AWG Cu. IN EMT (UNLESS OTHERWISE
- NOTED).
 7. INSTALL INSULATED GREEN BONDING CONDUCTOR IN ALL EMT CONDUIT.
- 8. ALL WIRING SHALL BE CONCEALED FROM VIEW UNLESS OTHERWISE NOTED.9. CONTRACTOR SHALL REPAIR ALL SURFACES DAMAGED DUE TO WORK
- PERFORMED.

 10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, DO NOT SCALE DRAWING.
- 11. ALL MATERIALS REMOVED AND MADE REDUNDANT BY THIS WORK (UNLESS
- INDICATED OTHERWISE) SHALL BECOME PROPERTY OF OWNER.

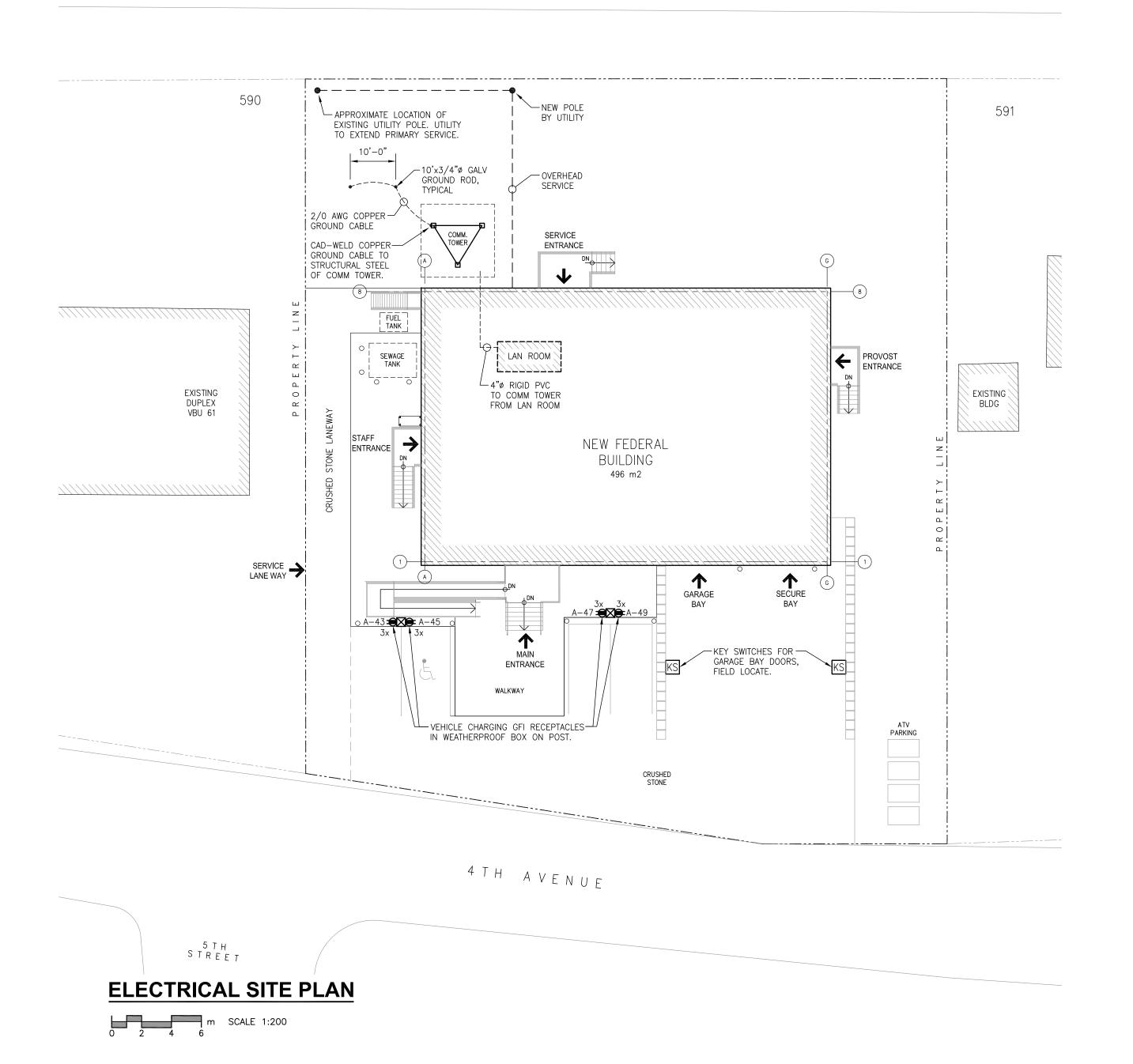
 12. MOUNTING HEIGHTS FOR DEVICES AS PER CODE REQUIREMENTS, UNLESS
- OTHERWISE NOTED.

 13. COORDINATE COLOUR FOR ALL WALL PLATES, RECEPTACLES, SWITCHES
- AND DEVICES WITH OWNER.

 14. MOUNT ALL EMERGENCY LIGHTING AT 7'-0" ABOVE FINISHED FLOOR. PROVIDE RECEPTACLE ABOVE CEILING AS REQUIRED.

- 15. COORDINATE ALL LIGHT FIXTURE AND RECEPTACLE INSTALLATION IN MILLWORK WITH CABINET BUILDER.
- 16. THE INTENT OF THIS PROJECT IS INSTALL A COMPLETE LIGHTING DESIGN. IF SWITCHING FOR AN AREA IS NOT SHOWN, THE ELECTRICAL CONTRACTOR SHALL PROVIDE SWITCHING.
 - 17. ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL FUSED AND NON-FUSED DISCONNECTS AS REQUIRED FOR ALL MECHANICAL EQUIPMENT INDICATED ON ELECTRICAL AND MECHANICAL DRAWING SETS. AMPERAGE, VOLTAGE AND NUMBER OF POLES TO BE CONFIRMED WITH MANUFACTURER'S LITERATURE.
 - 18. PROVIDE DEDICATED 1P-15A BREAKER FOR EXIT SIGN POWER.
 - 19. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL 20A GFI NEMA 5-20R CONVENIENCE RECEPTACLE(S) WITHIN 7.5m OF ALL ROOFTOP MOUNTED MECHANICAL EQUIPMENT (HEATING, VENTILATION, AIR CONDITIONING UNITS). ALL RECEPTACLES TO BE FED FROM DEDICATED 1P-20A CIRCUIT(S), AND MOUNTED IN WEATHERPROOF BACKBOX W/ SPRING-LOADED COVER, MINIMUM 750mm ABOVE FINISHED ROOF.
 - 20. COMPLETE TYPEWRITTEN PANEL SCHEDULES ARE TO BE PROVIDED FOR ALL PANELS. ALL LOADS FED FROM RELOCATED EXISTING CIRCUITS ARE TO BE DETERMINED AND INCLUDED IN PANEL SCHEDULES.
 - 21. ALL ELECTRICAL EQUIPMENT WITHIN SPRINKLERED ROOMS SHALL BE EQUIPPED WITH HOODS SUITED FOR THE APPLICATION. IF HOODS ARE NOT PROVIDED BY THE FACTORY OR IT IS FOR AN EXISTING PIECE OF EQUIPMENT, IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO SUPPLY AND INSTALL THESE HOODS ON NEW OR EXISTING EQUIPMENT AS REQUIRED.
 - 22. ALL CEILING SPACES ACT AS RETURN AIR PLENUMS. ALL CABLING IN CEILING SPACE MUST HAVE AN FT6 FIRE RATING OR BE COMPLETELY ENCLOSED IN CONDUIT.

3 R D A V E N U E

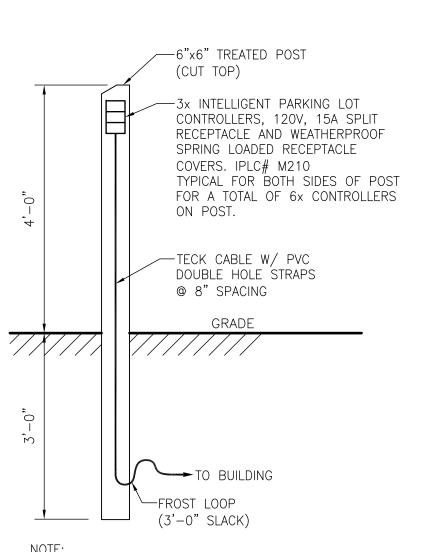


POWER IDENTIFICATION LEGEND

- DUPLEX RECEPTACLE
- SPECIAL CONNECTION FOR POWER
- GFI RECEPTACLE. (IN OUTDOOR LOCATIONS MOUNT IN WEATHERPROOF BACKBOX W/ SPRING LOADED COVER)
- 20A GFI RECEPTACLE
- QUAD RECEPTACLE
- DATA & TELEPHONE OUTLET. PROVIDE 3/4" EMT RACEWAY TO CEILING SPACE C/W PULL CORD.
- ANALOG TELEPHONE OUTLET. PROVIDE 1/2" EMT RACEWAY TO EACH OUTLET TO CEILING SPACE C/W PULL CORD.
- SATELLITE TELEVISION OUTLET, PROVIDE 3/4" EMT RACEWAY TO CEILING SPACE.
- CH 'CH' DENOTES DEVICE WALL-MOUNTED AT COUNTER HEIGHT.

BARRIER-FREE DOOR OPERATOR AND ASSOCIATED PUSHBUTTONS.
ALL POWER AND CONTROL WIRING BY ELECTRICAL CONTRACTOR.
INSTALL CONDUIT AND RECESSED BOXES FOR PUSHBUTTONS AS
REQUIRED. COORDINATE WITH DOOR HARDWARE
SUPPLIER/INSTALLER.

- FIRE ALARM PULLSTATION (2 STAGE)
- FIRE ALARM BELL/STROBE
- HEAT DETECTOR
- FIXED TEMPERATURE HEAT DETECTOR
- 6 ELECTRIC MOTOR
- DISCONNECT SWITCH. SIZE AS REQUIRED, OUTDOOR RATED.
- SECURITY CAMERA LOCATION
- P PANIC ALARM PUSHBUTTON
- PANIC ALARM RESET KEY SWITCH
- PA PANIC ALARM
- SECURITY ALARM
- KEY SWITCH
- KEYPAD ALARM
- MOTION SENSOR

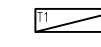


NOTE: ALL SCREWS TO BE S.S. OR ALUMINUM

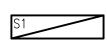
CAR PLUG POST DETAIL

NOT TO SCALE

LIGHTING IDENTIFICATION LEGEND



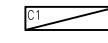
42W, 120V LED TROFFER FIXTURE, 3000°K, 3600 LUMEN, 1220x305mm PHILIPS VECTRA SERIES CAT# 9714-D1-ST-L-C-36-S-1-1-E



LED SURFACE MOUNT FIXTURE, 120V, 40W, 3500°K, 3,900 LUMEN
PHILIPS CFI DAY-BRITE FLUXSTREAM SERIES
CAT# LF-4-FR-39-35-U-LAG



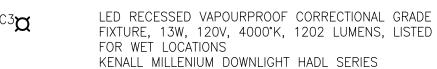
LED WALL-MOUNT FIXTURE 25W, 120V, 3500°K, 2123 LUMENS, 125x610mm KENALL MILLENIUM STRETCH SERIES CAT@ MLHA5V-24-R-MW-PP-25L35K-DCC-1-120



LED CORNER-MOUNT, CORRECTIONAL GRADE CELL FIXTURE 74W, 120V, 4000°K, 4800 LUMENS, C/W LED NIGHT LIGHT W/ LIGHT LEVEL CONTROL 100%-20% COOPER LIGHTING FAIL-SAFE FCC SERIES # FCC-X-4-LED3-2-STD-40-120-80/86-ED2C-LLNL



LED SURFACE-MOUNT, CORRECTIONAL GRADE FIXTURE 67W, 120V, 4000°K, 5606 LUMENS, C/W LED NIGHT LIGHT W/ LIGHT LEVEL CONTROL 100%-20% KENALL MIGHTY MAC SDSA SERIES CAT# SDSA-4-4/4-67L40K-DCC-120-G-1-DLN



CAT# HADL6VL2-13L40K-DV-2FW-G-9500

LED CORRECTIONAL GRADE TROFFER FIXTURE
67W, 120V, 4000°K, 5606 LUMENS, C/W LED NIGHT
LIGHT W/ LIGHT LEVEL CONTROL 100%-20%

KENALL MIGHTY MAC RMCA SERIES



CAT# RMCA-4-TG-4/4-67L40K-DCC-120-G-1-DLN

LED GARAGE FIXTURE
73W, 120V, 4000°K, 6377 LUMENS, 3380x3960mm
2 LED ARRAYS, CONCENTRATED DOWNLIGHT
PHILIPS GARDCO SERIES

CAT# G3-CD-2-73LA-3270-NW-120-NP

20W, 120V, 4.5" ROUND LED RECESSED DOWNLIGHT FIXTURE, 3000°K, 1000 LUMEN, C/W SPECULAR

LIGHTOLIER CALCULITE LED

CAT# C4L20LED1—C420LEDDL30K—CLW

20W, 120V, 5" ROUND LED RECESSED VAPOURPROOF
DOWNLIGHT FIXTURE, 3000°K, 900 LUMEN, C/W LENS

CLEAR REFLECTOR, WET LISTED

PHILIPS LIGHTOLIER XCEED SERIES
FRAME-IN# 1050LRN-09D1
LIGHT ENGINE# 1050LRN-09-30
TRIM SERIES# 1050LRN-DL-WB

30W, 120V, LED DIRECT/INDIRECT PENDANT FIXTURE,
1220mm LENGTH, 40% UPLIGHT/60% DOWN, 3000°K,
3400 LUMEN, SUSPENDED WITH AIRCRAFT CABLE, REFER
TO ARCH FOR EXACT MOUNTING HEIGHT.
PEERLESS BRUNO LED SOFTSHINE SERIES.
CAT# BRM9L-LO-40/60-SSH-4FT-R4-120-SCT-LP830



LED EXTERIOR WALL PACK
35W, 120V, 5000 LUMENS
PHILIPS WIDE-LITE ASW LED SERIES
CAT# ASW-32G1-350-NW-2L-120

\$ TOGGLE SWITCH, BACK/SIDE WIRED, 15A, 120/277V, LEVITON CAT. # 1201 OR EQUAL.

\$3W THREE-WAY TOGGLE SWITCH, BACK/SIDE WIRED, 15A, 120/277V, LEVITON CAT. # 1203 OR EQUAL.

PIR WALL SWITCH OCCUPANCY SENSOR LIGHTING CONTROL RATED 800W @ 120V LEVITON# ODS15-1D

3-POSITION SELECTOR SWITCH TO SUIT FIXTURE TYPE 'C1' TO PROVIDE 100% ILLUMINATION, 20% ILLUMINATION, AND FIXTURE OFF. FLUSH-MOUNTED. COORDINATE REQUIREMENTS WITH FIXTURE MANUFACTURER.

'NL' 'NL' DENOTES AN UNSWITCHED NIGHT LIGHT FIXTURE.

↑₩↑ **₩**

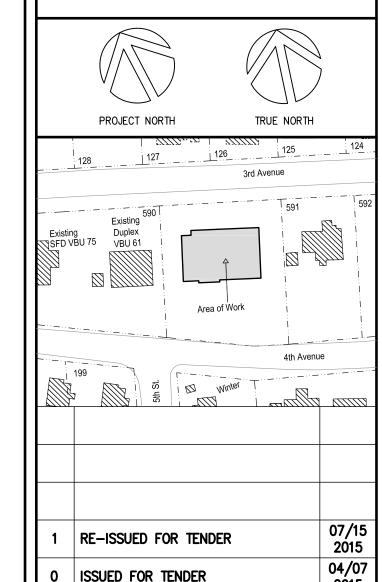
LED "RUNNING MAN" EXIT SIGN W/ PICTOGRAM SYMBOLS CONFORMING TO ISO 7010. EXTRUDED ALUMINUM FRAME W/ CLEAR POLYCARBONATE PANELS AND PICTOGRAM FILMS. SELF-POWERED WITH NICKLE-CADMIUM BATTERY SIZED FOR 2 HOURS BACKUP. UNIVERSAL VOLTAGE (120V-347V). SINGLE OR DOUBLE FACED TO SUIT AND PICTOGRAM FILMS TO DENOTE EXIT DIRECTIONS AS NOTED ON DRAWINGS.

EMERGI-LITE# EA SERIES



NEW EMERGENCY 12 VDC LIGHTING UNIT C/W INTEGRAL 12VDC 9W MICRO-TUNGSTEN HEAD(S) AS INDICATED. SIZED FOR 1 HOUR COVERAGE. EMERGI-LITE# 12ESL SERIES

EMERGENCY LIGHTING 12 VDC 9W DOUBLE REMOTE HEAD(S). WIRED TO PACK EM# (USE #10 AWG AC90 MIN. FOR 12VDC WIRING).
EMERGI-LITE# EF9 SERIES & EF9D SERIES



All measurements are to be checked and verified on site by the contractor before proceeding with the work.

Do not scale the drawings.

Description

Prime Consultant:

Revisions:

2015









THE GOVERNMENT OF NUNAVUT

FEDERAL BUILDING ARVIAT, NUNAVUT

Drawn By: GAP

Checked By: AG

Date: JULY 15, 2015

Scale: AS NOTED

neet Title:

IDENTIFICATION LEGENDS

& SITE PLAN

Sheet Number:

E001

A1 594x841

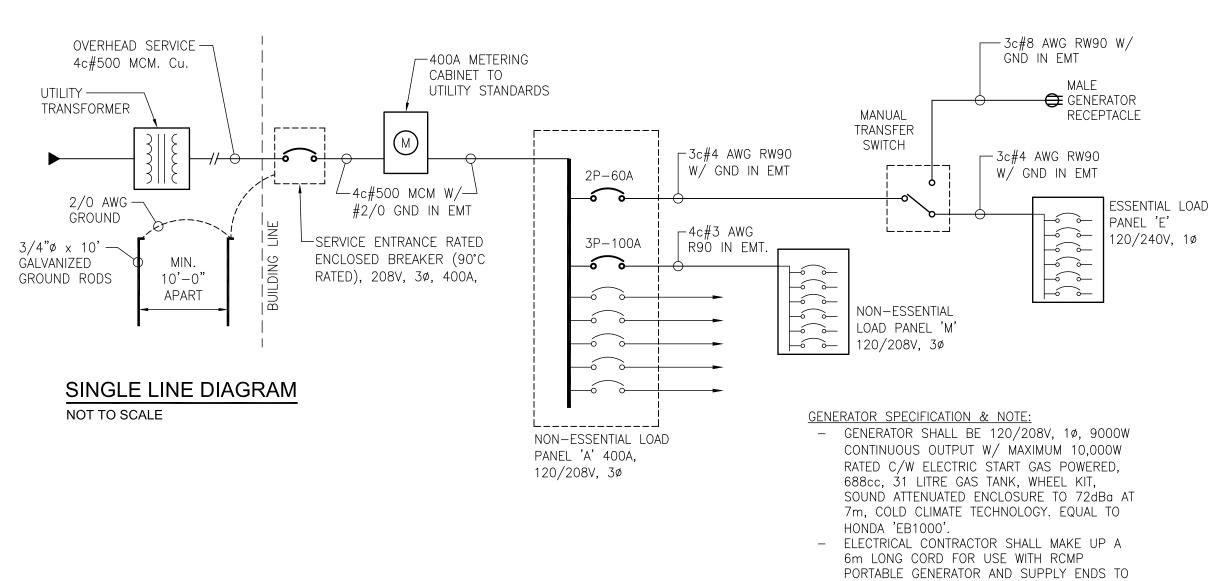
CT.	CIDCUIT LIST	BREA	KER	VOLTS		VA		WIRE AND CONDUIT	ССТ.	ODCUIT LICE	BREA	KER	VOLTS		VA		WIRE AND CONDUIT
۱o.	CIRCUIT USE	SIZE	POLES	VOLIS	Aø	Bø	Cø	SIZE	No.	CIRCUIT USE	SIZE	POLES	VOLIS	Aø	Bø	Cø	SIZE
1	DATA RECEPTACLES — ROOM 106	15A	1	120	540			2c#12 IN EMT	2	LIGHTING - ROOMS 102, 103, 107, 108, 111	15A	1	120	910			2c#12 IN EM
3	DATA RECEPTACLES - ROOM 105	15A	1	120		540		2c#12 IN EMT	4	LIGHTING - ROOMS 109, 110, 112-120, 201	15A	1	120		1250		2c#12 IN EM
5	DATA RECEPTACLES - ROOMS 104, 105	15A	1	120			540	2c#12 IN EMT	6	EXTERIOR LIGHTING	15A	1	120			1000	2c#12 IN EM
7	DATA RECEPTACLES - ROOMS 103, 107	15A	1	120	720			2c#12 IN EMT	8	LIGHTING - ROOMS 122-127, 131, 132	15A	1	120	644			2c#12 IN EM
9	DATA RECEPTACLES - ROOMS 113, 114, 116	15A	1	120		720		2c#12 IN EMT	10	LIGHTING - ROOMS 128-131, 134, 137, 138	15A	1	120		750		2c#12 IN EM
11	DATA RECEPTACLES - ROOMS 128, 132	15A	1	120			720	2c#12 IN EMT	12	LIGHTING - ROOMS 100, 101, 104-106	15A	1	120			1100	2c#12 IN EM
13	RECEPTACLES - ROOMS 120, 121	15A	1	120	840			2c#12 IN EMT	14	CRAWLSPACE LIGHTING & RECEPTACLES - ROOM 003	15A	1	120	550			2c#12 IN EM
15	RECEPTACLES - ROOMS 117, 119	15A	1	120		960		2c#12 IN EMT	16	BARRIER-FREE DOOR OPERATORS - ROOM 100	15A	1	120		500		2c#12 IN EM
17	RECEPTACLES - ROOMS 112, 116	15A	1	120			960	2c#12 IN EMT	18	FRIDGE RECEPTACLE - ROOM 107	15A	1	120			500	2c#12 IN EM
19	RECEPTACLES - ROOMS 108, 110, 111, 114	15A	1	120	960			2c#12 IN EMT	20	DISHWASHER RECEPTACLE - ROOM 107	15A	1	120	500			2c#12 IN EM
21	RECEPTACLES - ROOMS 101, 103, 104, 106	15A	1	120		960		2c#12 IN EMT	22	MICROWAVE RECEPTACLE - ROOM 107	15A	1	120		1000		2c#12 IN EN
23	RECEPTACLES - ROOMS 101, 107, 111	15A	1	120			960	2c#12 IN EMT	24	MICROWAVE RECEPTACLE - ROOM 125	15A	1	120			1000	2c#12 IN EN
25	RECEPTACLES - ROOMS 121, 122, 124, 125	15A	1	120	840			2c#12 IN EMT	26	FRIDGE RECEPTACLE - ROOM 125	15A	1	120	500			2c#12 IN EM
27	RECEPTACLES - ROOMS 121, 122	15A	1	120		840		2c#12 IN EMT	28	QUAD 20A RECEPTACLES - LAN ROOM 115	20A	1	120		750		2c#12 IN EM
29	RECEPTACLES - RMS 123, 128, 130, 132, 137, 138	15A	1	120			960	2c#12 IN EMT	30	QUAD 20A RECEPTACLES - LAN ROOM 115	20A	1	120			750	2c#12 IN EM
31	EXTERIOR GFI RECEPTACLES	15A	1	120	720			2c#12 IN EMT	32	DDVED DOOM 127	704	0	000	2500			7- //10 IN TA
33	GFI RECEPTACLES - ROOMS 102, 109, 118	15A	1	120		720		2c#12 IN EMT	34	DRYER - ROOM 123	30A	2	208		2500		3c#10 IN EM
35	GFI RECEPTACLES - ROOMS 121, 126, 128, 131	15A	1	120			900	2c#12 IN EMT	36	WASHER - ROOM 123	15A	1	120			500	2c#12 IN EM
37	20A GFI RECEPTACLES - ROOMS 107, 125	20A	1	120	1440			2c#12 IN EMT	38	HAND DRYER - ROOM 102	20A	1	120	1200			2c#12 IN EM
39	RADIO CHARGING RECEPTACLES — ROOM 110	15A	1	120		960		2c#12 IN EMT	40								
41	RADIO CHARGING & DATA RECEPTACLES - 110, 111	15A	1	120			600	2c#12 IN EMT	42								
43	VEHICLE CHARGING - EXTERIOR GFI RECEPTACLES	15A	1	120	1200			2c#12 IN EMT	44								
45	VEHICLE CHARGING - EXTERIOR GFI RECEPTACLES	15A	1	120		1200		2c#12 IN EMT	46								
47	VEHICLE CHARGING - EXTERIOR GFI RECEPTACLES	15A	1	120			1200	2c#12 IN EMT	48								
49	VEHICLE CHARGING — EXTERIOR GFI RECEPTACLES	15A	1	120	1200			2c#12 IN EMT	50								
51									52								
53									54								
55									56								
57									58	ARTIC VENTS	15A	1	120		500		2c#12 IN EM
59									60	EXIT SIGN POWER	15A	1	120			_	2c#12 IN EN

	E	SSI	ΞNΤ	ΊΑ	L I	LO	ADS EI	_ E	CTRICAL PANEL 'E	<u></u> '					
CCT. No.	CIRCUIT USE		BREAKER		VA		WIRE AND CONDUIT	CCT.	CIRCUIT USE	BREA		VOLTS	VA		WIRE AND CONDUIT
NO.		SIZE	POLES		L1	L2	SIZE	NO.		SIZE	POLES		L1	L2	SIZE
1	B-1 BOILER B-1	15A	1	120	500		AS NOTED	2	LIGHTING - CELLS 135, 136	15A	1	120	150		2c#12 IN EMT
3	B-2 BOILER B-2	15A	1	120		500	AS NOTED	4	FIRE ALARM PANEL	15A	1	120		150	2c#12 IN EMT
5	(P1/2) BOILER PUMPS P1/P2	30A	2	240	4080		AS NOTED	6	EVIDENCE FRIDGE RECEPTACLES - ROOMS 113, 116	15A	1	120	600		2c#12 IN EMT
7	F1/Z DOILER FUMFS F1/F2	JUA	2	240		4080	AS NOTED	8	QUAD 20A RECEPTACLES - LAN ROOM 115	20A	1	120		750	2c#12 IN EMT
9	SPARE	15A	1	120			AS NOTED	10	QUAD 20A RECEPTACLES - LAN ROOM 115	20A	1	120	750		2c#12 IN EMT
11	(P5/6) GLYCOL PUMPS P5/P6	15A	1	120		1176	AS NOTED	12	RECEPTACLES - ROOM 105, 124	15A	1	120		360	2c#12 IN EMT
13	(UH-1) CRAWLSPACE UNIT HEATERS (6 TOTAL)	15A	1	120	200		AS NOTED	14	(UH-2) BOLIER ROOM UNIT HEATER	15A	1	120	200		AS NOTED
15	⟨ P3/4 ⟩ GLYCOL PUMPS P3/P4	15A	2	240		193	AS NOTED	16	SMOKE DAMPERS	15A	1	120		250	2c#12 IN EMT
17	roja / Gereoe romrs rojra	IJA	2	240	193		AS NOTED	18							
19								20							
21								22							
23								24							
M	DLTAGE: 120/240VAC MAINS: 100A AIN BREAKER: MLO BREAKER I.C.: 10KA DUNTING: SURFACE		PHASE: WIRE: FEEDEF		ICATED		FED FROM: AS INI LOCATION: AS SHO								

CT.	AIDOUT LIGE	BREA	KER	VOLTO		VA		WIRE AND	CCT.	OLDOUIT, HOE	BREA	AKER	VOLTO		VA		WIRE AND
No.	CIRCUIT USE	SIZE	POLES	VOLTS	Aø	Вø	Cø	CONDUIT SIZE	No.	CIRCUIT USE	SIZE	POLES	VOLTS	Αø	Вø	Cø	CONDUIT SIZE
1					1333				2	P9 DOMESTIC WATER CIRC P-9	15A	2	208	1050			AS NOTED
3	AHU1 AHU-001	30A	3	208		1333		AS NOTED	4	Pa DOMESTIC WATER CIRC 1 3	15/		200		1050		AS NOTED
5							1333		6								
7					500				8	(EF-1) EXHAUST FAN EF-1	15A	2	208	60			AS NOTED
9	AHU2 AHU-002	15A	3	208		500		AS NOTED	10	(<u>L. 1)</u> 2711/1001 1711 21 1	15/1		200		60		7.6 NOTED
11							500		12	(EF-2) EXHAUST FAN EF-2	15A	2	208			250	AS NOTED
13	P7 MUA CIRC PUMP P-7	15A	1	120	500			AS NOTED	14	<u>(1-1)</u>	10/1			250			THE THETES
15	(P-10) GLYCOL MAKE-UP PUMP PACKAGE	15A	1	120		120		AS NOTED	16	(EF-3) EXHAUST FAN EF-3	15A	2	208		250		AS NOTED
17	P8 DOMESTIC WATER CIRC P-8	15A	2	208			1050	AS NOTED	18	<u> </u>	10,1					250	
19					1050				20	(EF-4) EXHAUST FAN EF-4	15A	2	208	250			AS NOTED
21	(P-11) DOM HOT WATER RETURN CIRC PUMP	15A	1	120		500		AS NOTED	22						250		
23									24							700	
25									26	OVERHEAD DOOR MOTOR	15A	3	208	700			3c#12 AWG IN EM
27									28						700		
29		ļ							30							700	
31									32	OVERHEAD DOOR MOTOR	15A	3	208	700			3c#12 AWG IN EMT
33									34						700		
35									36								

			M	ECHANI	CAL EQ	UIPM	ENT	SCHE	DULE
Ī	No.	DESCRIPTION	ROOM #	ELECTRICAL NOTES	BRANCH WIRING	BREAKER SIZE	CIRCUIT NUMBER	TOTAL VA	REMARKS
	(AHU1)	AHU-001	201	3HP, 208V, 3ø	3c#10 AWG IN EMT	3P-30	M-1/3/5	4000 VA	DISCONNECT REQUIRED & STARTER
	AHU2	AHU-002	201	1HP, 208V, 3ø	3c#12 AWG IN EMT	3P-15A	M-7/9/11	1500 VA	DISCONNECT REQUIRED & STARTER
	B-1	BOILER B-1	120	1/8HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	E-1	500 VA	DISCONNECT REQUIRED
	B-2	BOILER B-2	120	1/8HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	E-3	500 VA	DISCONNECT REQUIRED
	(P1/2)	BOILER PUMPS P1/P2	120	2HP, 240V, 1ø	3c#8 AWG IN EMT	2P-30A	E-5/7	8160 VA	DUPLEX CONTROLLER & DISCONNECT REQUIRED
VISED -	P3/4	GLYCOL PUMPS P3/P4	003	1/6HP, 208V, 1ø	2c#12 AWG IN EMT	2P-15A	E-15/17	385 VA	DUPLEX CONTROLLER & DISCONNECT REQUIRED
VISED -	P5/6	GLYCOL PUMPS P5/P6	003	1/6HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	E-11	1176 VA	DUPLEX CONTROLLER & DISCONNECT REQUIRED
VISED -	P7	AHU-2 CIRC PUMP P-7	201	1/6 HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	M-13	400 VA	DISCONNECT REQUIRED, INTERLOCK WITH MUA UNIT, RUNS CONTINUOUSLY
VISED 🗕	P8	DOMESTIC WATER CIRC P-8	120	1-1/2HP, 208V, 1ø	2c#12 AWG IN EMT	2P-20A	M-17/19	2100 VA	DISCONNECT REQUIRED & STARTER
VISED— - [P9	DOMESTIC WATER CIRC P-9	120	1-1/2HP, 208V, 1ø	2c#12 AWG IN EMT	2P-20A	M-2/4	2100 VA	DISCONNECT REQUIRED & STARTER
VISED— - [ITEM DELETED							
VISED -	P-10	GLYCOL MAKE-UP PUMP PACKAGE	120	0.07HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	M-15	120 VA	DEDICATED RECEPTACLE REQUIRED
VISED— - [P-11	DOM HOT WATER RETURN CIRC PUMP	120	1/6 HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	M-21	500 VA	DISCONNECT REQUIRED & STARTER
VISED— - [(EF-1)	EXHAUST FAN EF-1	121	0.27HP, 208V, 1ø	2c#12 AWG IN EMT	2P-15A	M-8/10	120 VA	DISCONNECT REQUIRED
VISED -	(EF-2)	EXHAUST FAN EF-2	121	1/6 HP, 208V, 1ø	2c#12 AWG IN EMT	2P-15A	M-12/14	500 VA	DISCONNECT REQUIRED
/ISED [⟨EF-3⟩	EXHAUST FAN EF-3	122	1/6 HP, 208V, 1ø	2c#12 AWG IN EMT	2P-15A	M-16/18	500 VA	DISCONNECT REQUIRED
VISED 🗕	(EF-4)	EXHAUST FAN EF-4	120	1/6 HP, 208V, 1ø	2c#12 AWG IN EMT	2P-15A	M-20/22	500 VA	DISCONNECT REQUIRED
	(UH-1)	CRAWLSPACE UNIT HEATERS (6 TOTAL)	003	1/20HP, 120V, 1ø	2c#12 AWG IN EMT	1P-15A	E-13	200 VA	DISCONNECT REQUIRED
ſ	(UH-2)	BOILER ROOM UNIT HEATER	003	120V, 1ø	2c#12 AWG IN EMT	1P-15A	E-13	200 VA	DISCONNECT REQUIRED

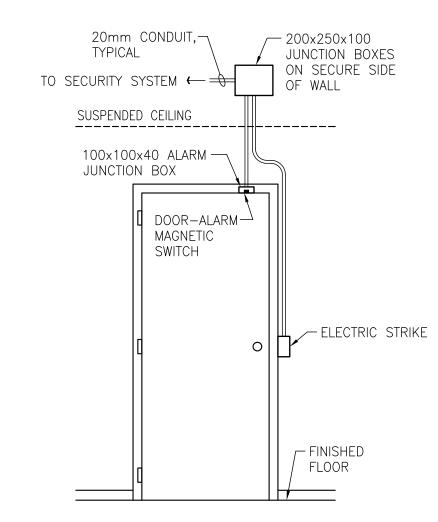
MOTOR CONNECTIONS:
FOR ALL MOTOR CONNECTIONS,
CHANGE FROM EMT TO TO LIQUIDTIGHT
AT MOTOR FOR FINAL CONNECTION.



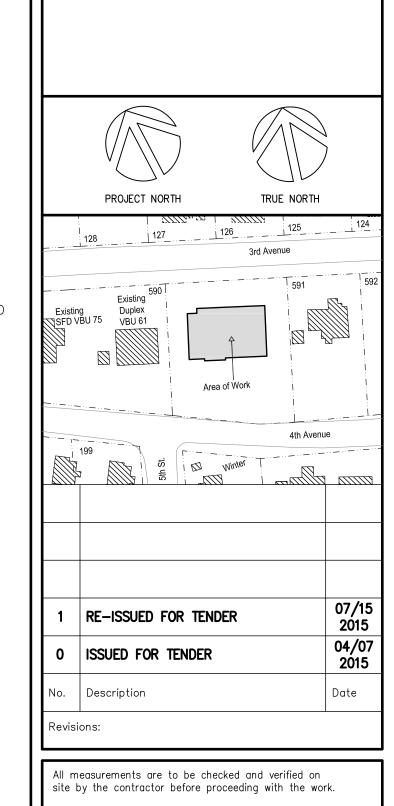
SUIT GENERATOR AND CONNECTION

GENERATOR.

RECEPTACLE. ENSURE NO LIVE PINS CAN BE EXPOSED WHEN CORD IS PLUGGED INTO

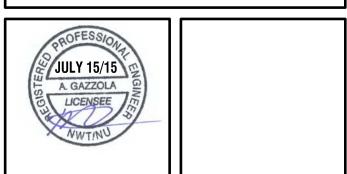


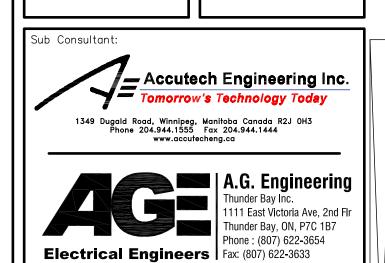
DOOR ELEVATIONS - DOORS 100A, 100B, 102 NOT TO SCALE TYPICAL ROUGH-IN



Do not scale the drawings.

Prime Consultant: PARKIN ARCHITECTS LIMITED





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FEDERAL BUILDING ARVIAT, NUNAVUT

	Drawn By:	GAP	Date: JULY 15, 2015
	Checked By:	AG	Scale: AS NOTED

SINGLE LINE DIAGRAM & PANEL SCHEDULES

Sheet Number:

