

LEGEND

AFTER EXCAVATION TO PROPER GRADE, PROOF ROLL EXISTING SUBGRADE AND FOLLOW IMMEDIATED WITH PLACEMENT OF GRANULAR BASE UPON APPROVAL OF GEOTECHNICAL ENGINEER. ALL WORK TO COMPLY WITH THE LOCAL BYLAWS. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE OCCUPATIONAL HEALTH AND SAFETY AND REGULATIONS FOR

THE OWNER, ENGINEER AND THE LOCAL MUNICIPALITY AND ITS AGENTS DO NOT GUARANTEE TH ACCURACY OF THE UTILITIES SHOWN ON THE DRAWINGS. OTHER UTILITIES MAY BE PRESENT OR UTILITIES MAY DIFFER IN SIZE OR LOCATION SHOWN. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES PRIOR TO CONSTRUCTION TO LOCATE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE TO REPAIR ANY DAMAGE THAT HE MAY CAUSE TO THESE UTILITIES. THE CONTRACTOR FURTHER AGREES TO INDEMNIFY THE OWNER AND ENGINEER AGAINST ANY CLAIMS WHICHMAY ARISE FROM HIS ACTIONS

THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THIS WORK.

FIELD CHECK ALL EXISTING GRADE AND DIMENSIONS PRIOR TO COMMENCING ANY NEW CONSTRUCTION. NOTIFY ENGINEER OF ANY DISCREPANCIES.

ALL EXTERIOR CONCRETE TO BE 32 MPA CITY MIX WITH 6% + 1.1/2% AIR ENTRAINMENT. ALL EXPOSED CONCRETE SURFACES TO BE COATED WITH A WHITE PIGMENTED CONCRETE CURING COMPOUND (SEALTIGHT WP-45) CURE ALL SITE PLACED CONCRETE.

GRANULAR 'A' TO OPSS 1010

SITE NOTES:

SITE BENCHMARKS:
TOP OF FIRE HYDRANT SPINDLE LOCATED AT THE SOUTHWEST CORNER OF THE EXISTING MATERIA' RECOVERY FACILITY BUILDING. ELEVATION = 617.14'

TOP OF COVER BELL PEDESTAL TOP OF CURB CTV CABLE TELEVISION CLEAN OUT CORRUGATED STEEL PIPE + 603.68 EXIST. GRADE STORM SEWER NEW GRADE SANITARY SEWER SLOPE LINES DITCH INLET CATCH BASIN CATCH BASIN SEWER INVERT SANITARY SEWER MANHOLE HYDRO POLE STMH STORM SEWER MANHOLE WATER VALVE UTILITY POLE VENT CATCH BASIN MANHOLE TRAFFIC LIGHT TRAFFIC CONTROL EDGE OF PAVEMENT PRIMARY BLDG. ENTRANCE EDGE OF SHOULDER SECONDARY BLDG. ENTRANCE WHEELCHAIR RAMP (CURB CUT)

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general notes:

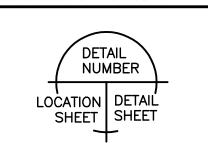
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ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL CONDITIONS REGARDING CONTRACTOR'S RESPONSIBILITIES IN REGARDS TO SUBMISSION OF SHOP DRAWINGS.

d.c. mccloskey engineering Itd.

1880 assumption street suite 100 windsor, ontario n8y 1c4 canada phone (519) 977 6800 fax (519) 254 3642 info@mccloskeyengineering.com



DATE	ISSUED FOR
04/02/08	OWNER REVIEW
07/04/08	TENDER
01/05/08	PERMIT/ CONSTRUCTION

LIST OF DRAWINGS

CIVIL

PARTIAL SITE PLAN SHOWING SITE SERVICING AND GRADING AT CHEMICAL WASTE BUILDING

PARTIAL SITE PLAN SHOWING SITE SERVICING AND GRADING AT FIBRE BUILDING

ARCHITECTURAL

DEMOLITION PLAN

PARTIAL FLOOR PLAN AND ELEVATIONS

BUILDING SECTIONS

STRUCTURAL

PARTIAL FOUNDATION PLAN AND DETAILS
FOUNDATION SECTIONS AND DETAILS
PARTIAL ROOF FRAMING PLAN

ELECTRICAL

ELECTRICAL PLAN ELECTRICAL SPECIFICATION E-1 E-2

PROJECT

PROPOSED ADDITION TO THE ESSEX-WINDSOR FIBRE RECYCLING CENTRE

3560 NORTH SERVICE ROAD WINDSOR, ONTARIO

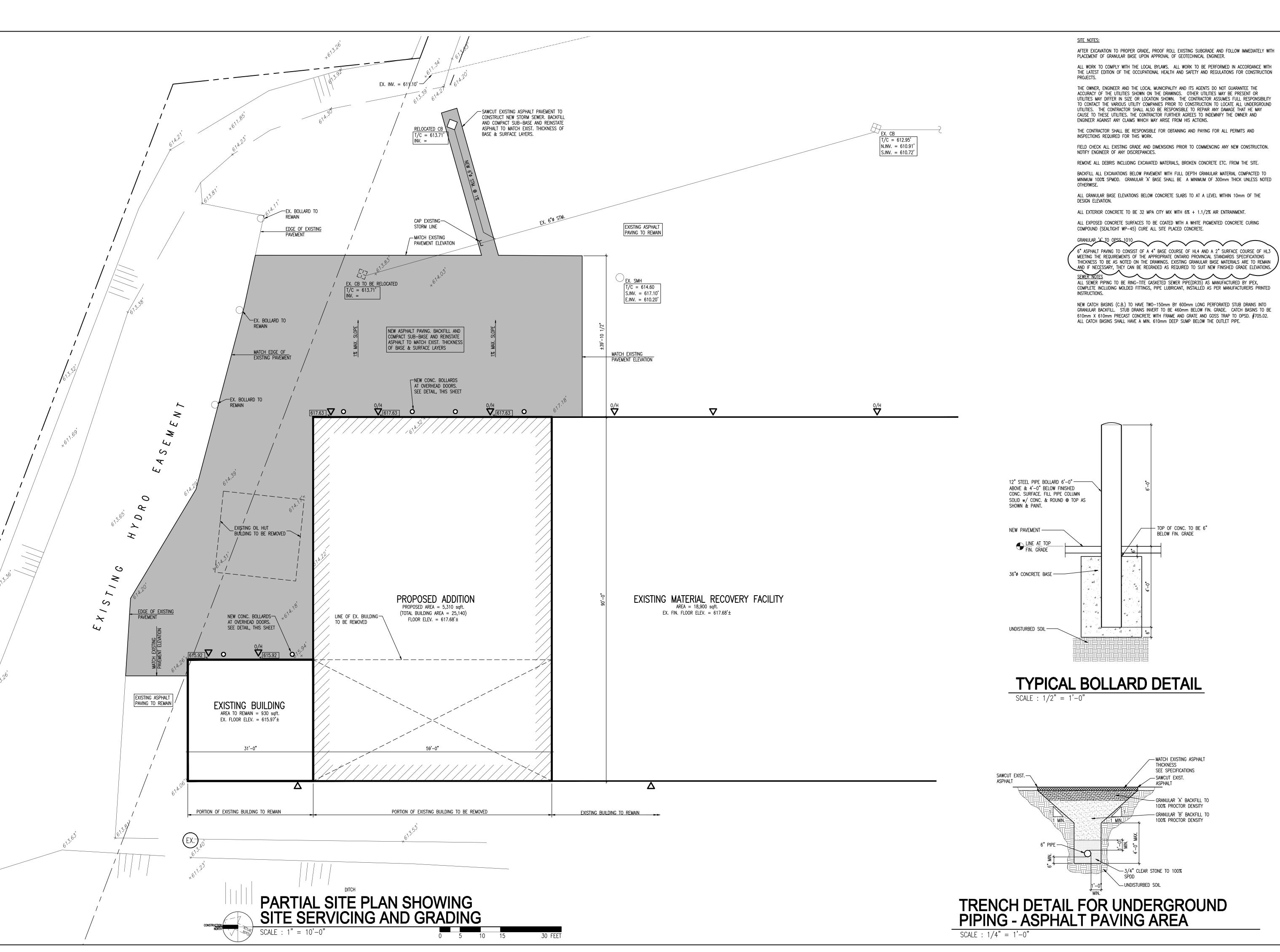
ESSEX-WINDSOR SOLID WASTE AUTHORITY

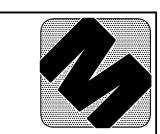
DRAWING TITLE

PARTIAL SITE PLAN SHOWING SITE SERVICING AND GRADING AT CHEMICAL WASTE BUILDING

DATE :	APRIL. 2008
SCALE :	AS NOTED
DRAWN BY:	BJS
CADFILE :	C1.0 PLANS.dwg
CHECKED BY :	JLD/ DCM
PROJECT FILE NO.	M07-317
DRAWING NO.	

C1.1





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SHEET SHEET

DETAIL NUMBER LOCATION DETAIL

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PROJECT

PROPOSED ADDITION
TO THE ESSEX-WINDSOR
FIBRE RECYCLING CENTRE

3560 NORTH SERVICE ROAD WINDSOR, ONTARIO

CLIENT

ESSEX-WINDSOR SOLID WASTE AUTHORITY

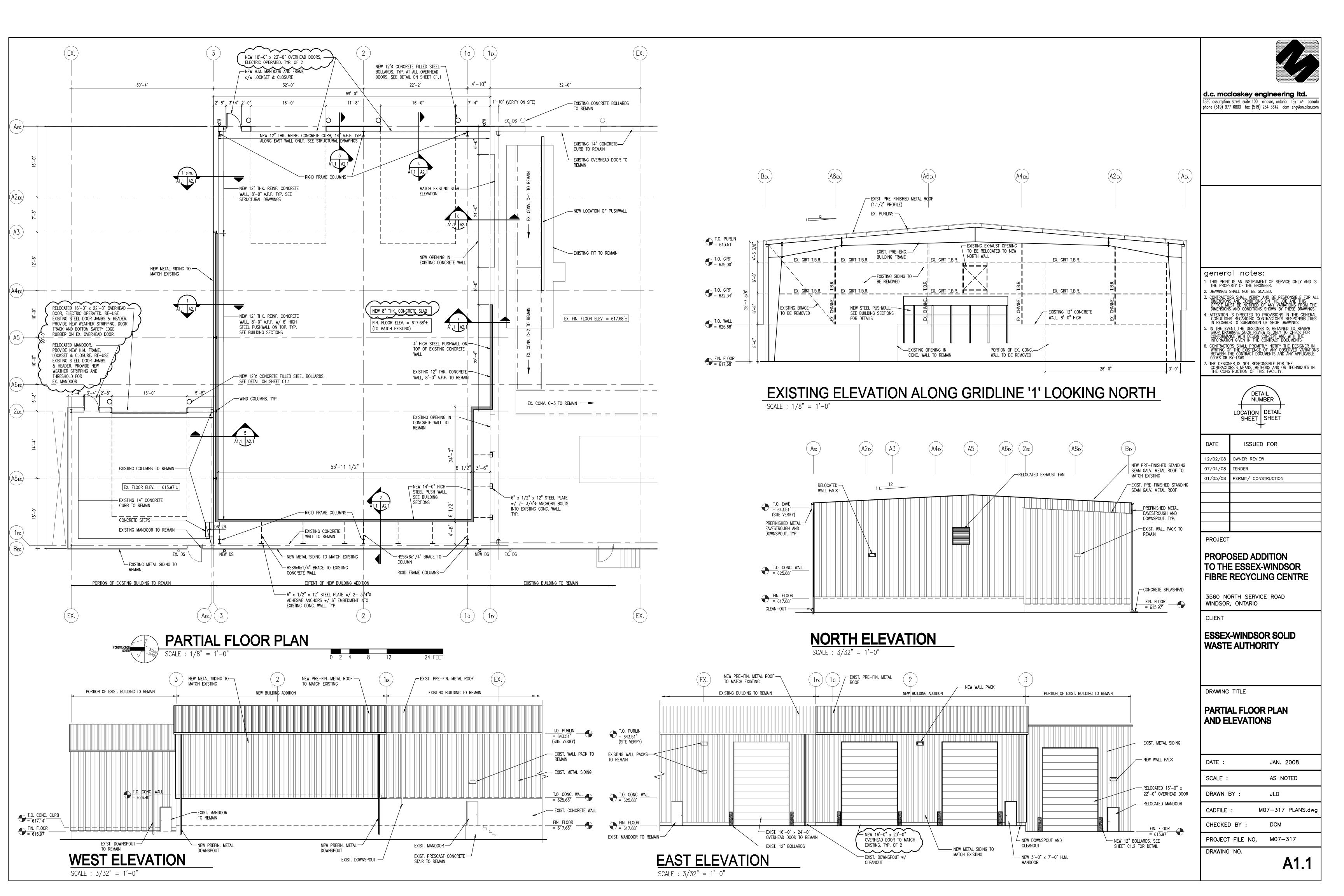
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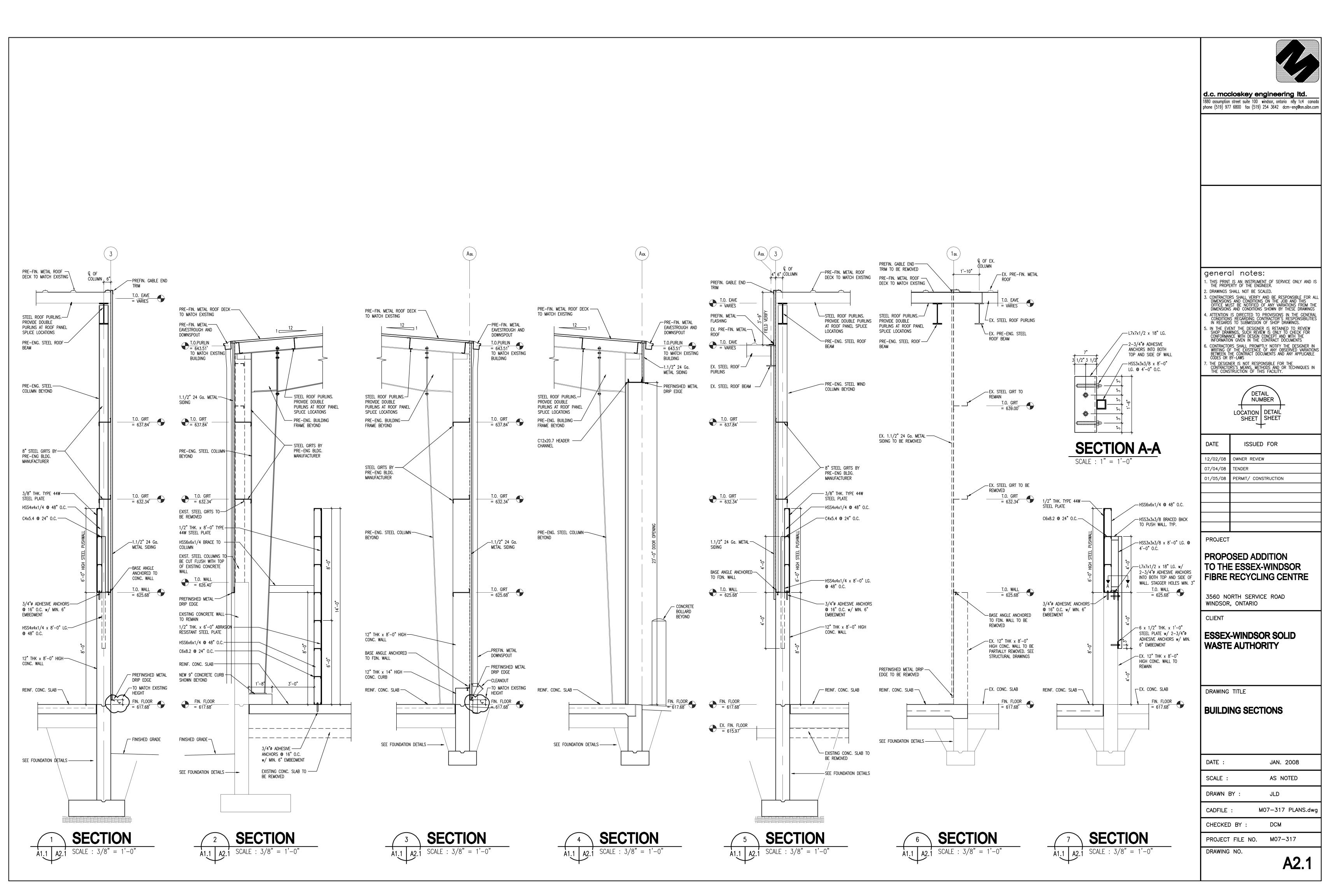
DRAWING NO.

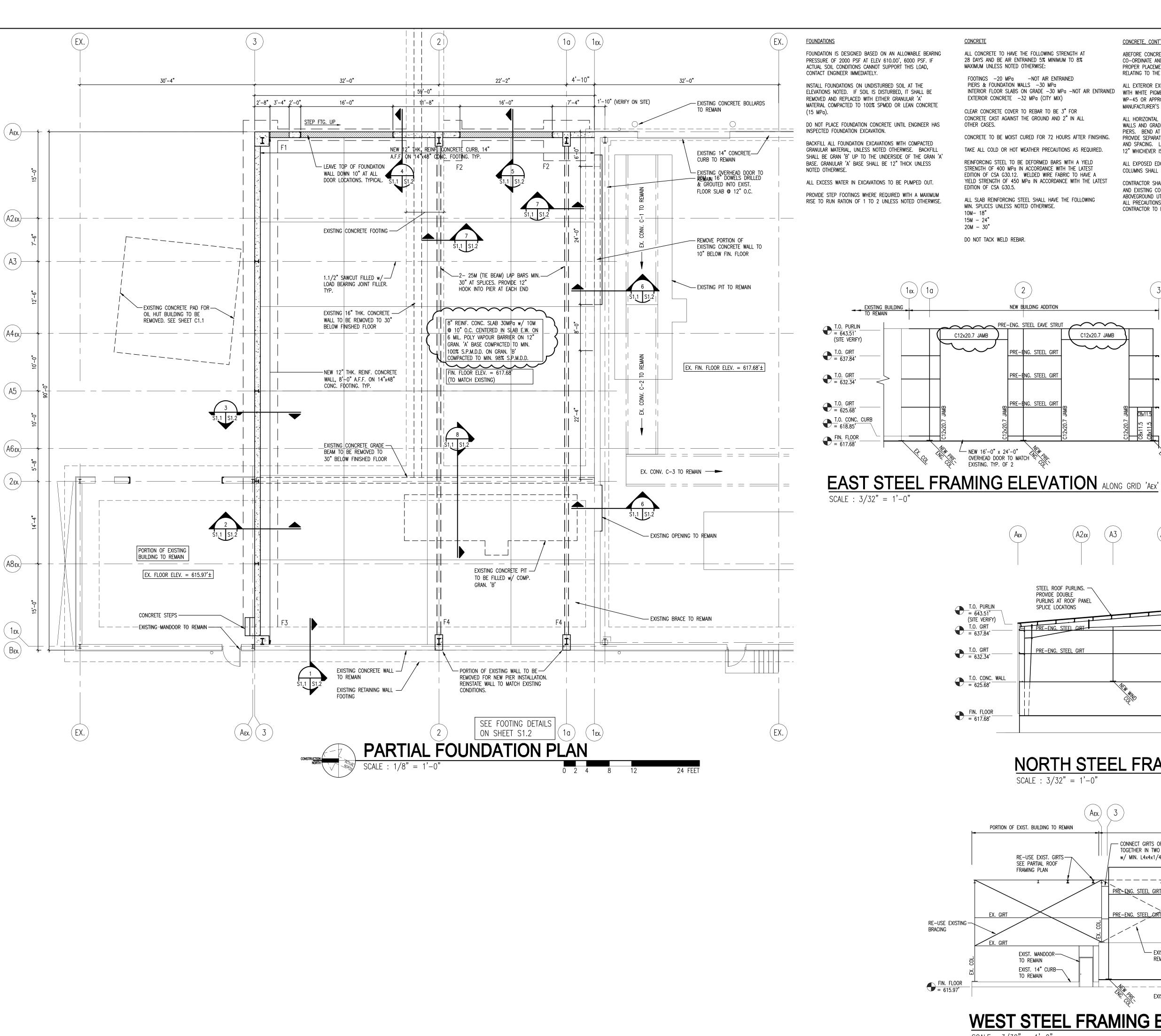
PARTIAL SITE PLAN SHOWING SITE SERVICING AND GRADINGAT FIBRE BUILDING

DATE :	APRIL. 2008
SCALE :	AS NOTED
DRAWN BY:	JLD
CADFILE :	M07-317 PLANS.dwg
CHECKED BY :	DCM
PROJECT FILE NO.	M07-317

C1.2







FOUNDATION IS DESIGNED BASED ON AN ALLOWABLE BEARING PRESSURE OF 2000 PSF AT ELEV 610.00', 6000 PSF. IF ACTUAL SOIL CONDITIONS CANNOT SUPPORT THIS LOAD,

INSTALL FOUNDATIONS ON UNDISTURBED SOIL AT THE ELEVATIONS NOTED. IF SOIL IS DISTURBED, IT SHALL BE REMOVED AND REPLACED WITH EITHER GRANULAR 'A' MATERIAL COMPACTED TO 100% SPMDD OR LEAN CONCRETE

DO NOT PLACE FOUNDATION CONCRETE UNTIL ENGINEER HAS

BACKFILL ALL FOUNDATION EXCAVATIONS WITH COMPACTED GRANULAR MATERIAL, UNLESS NOTED OTHERWISE. BACKFILL SHALL BE GRAN 'B' UP TO THE UNDERSIDE OF THE GRAN 'A' BASE. GRANULAR 'A' BASE SHALL BE 12" THICK UNLESS

ALL EXCESS WATER IN EXCAVATIONS TO BE PUMPED OUT. PROVIDE STEP FOOTINGS WHERE REQUIRED WITH A MAXIMUM

<u>CONCRETE</u>

ALL CONCRETE TO HAVE THE FOLLOWING STRENGTH AT 28 DAYS AND BE AIR ENTRAINED 5% MINIMUM TO 8% MAXIMUM UNLESS NOTED OTHERWISE:

FOOTINGS -20 MPa -NOT AIR ENTRAINED PIERS & FOUNDATION WALLS -30 MPa INTERIOR FLOOR SLABS ON GRADE -30 MPa -NOT AIR ENTRAINED EXTERIOR CONCRETE -32 MPa (CITY MIX)

CLEAR CONCRETE COVER TO REBAR TO BE 3" FOR CONCRETE CAST AGAINST THE GROUND AND 2" IN ALL

CONCRETE TO BE MOIST CURED FOR 72 HOURS AFTER FINISHING. TAKE ALL COLD OR HOT WEATHER PRECAUTIONS AS REQUIRED.

REINFORCING STEEL TO BE DEFORMED BARS WITH A YIELD STRENGTH OF 400 MPa IN ACCORDANCE WITH THE LATEST EDITION OF CSA G30.12. WELDED WIRE FABRIC TO HAVE A YIELD STRENGTH OF 450 MPa IN ACCORDANCE WITH THE LATEST EDITION OF CSA G30.5.

NEW BUILDING ADDITION

C12x20.7 JAMB

ALL SLAB REINFORCING STEEL SHALL HAVE THE FOLLOWING MIN. SPLICES UNLESS NOTED OTHERWISE. 10M- 18" 15M - 24"

DO NOT TACK WELD REBAR.

OVERHEAD DOOR TO MATCH

STEEL ROOF PURLINS. PROVIDE DOUBLE

PURLINS AT ROOF PANEL

20M - 30"

C12x20.7 JAMB

T.O. PURLIN
= 643.51'
(SITE VERIFY)
T.O. GIRT
= 637.84'

 $\frac{\text{T.O. GIRT}}{= 632.34}$

T.O. CONC. WALL = 625.68'

FIN. FLOOR = 617.68'

CONCRETE, CONT'D.

ABEFORE CONCRETE IS PLACED, THE CONTRACTOR SHALL CO-ORDINATE AND CHECK WITH ALL TRADES TO ENSURE THE PROPER PLACEMENT OF ALL SLEEVES, INSERTS, CURBS, ETC. RELATING TO THE WORK AS SHOWN ON THE DRAWINGS.

ALL EXTERIOR EXPOSED CONCRETE SURFACES TO BE CURED WITH WHITE PIGMENTED CURING COMPOUND (SEAL-TIGHT WP-45 OR APPROVED EQUAL) APPLIED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.

ALL HORIZONTAL REINFORCING STEEL BARS IN CONCRETE WALLS AND GRADE BEAMS SHALL BE CONTINUOUS THROUGH PIERS. BEND AT ALL CORNERS AND INTERSECTIONS OR PROVIDE SEPARATE CORNER BARS OF THE SAME SIZES AND SPACING. LAP ALL BARS WITH 24 BAR DIAMETER OR

ALL EXPOSED EDGES OF BEAMS, WALLS, PIERS AND COLUMNS SHALL HAVE 3/4" CHAMFER.

12" WHICHEVER IS GREATER.

CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS, SUCH AS UNDERGROUND AND/OR ABOVEGROUND UTILITIES, SEWERS, CAISSONS ETC. ON SITE. ALL PRECAUTIONS SHALL BE TAKEN TO PREVENT ANY DAMAGE. CONTRACTOR TO REPORT ANY DISCREPANCIES TO THE ENGINEER

<u>ADDITIONAL NOTES:</u>

PORTION OF EXIST. BUILDING TO REMAIN

EAST STEEL FRAMING

ELEVATION ALONG GRID '2EX'

- PRE-ENG. BUILDING

FRAME BEYOND

- NEW EXHAUST OPENING FOR

FLOOR HARDENER SHALL BE SIKA EMERICRETE SH APPLIED AT A RATE OF 1.5-1.8 POUNDS PER SQUARE FOOT, CURING AND SEALING COMPOUND SHALL BE SIKA FLORSEAL WB 14 APPLIED AT A RATE OF 300 SQUARE FEET PER US

LOAD BEARING CONTROL JOINT FILLER SHALL BE SIKA LOADFLEX POLYUREA.



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- EXIST. STEEL GIRTS TO BE PARTIALLY REMOVED

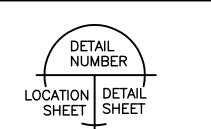
--- RE-USE EXIST. STEEL

- REINF. CONCRETE WALL

HEADERS & JAMBS FOR RELOCATED DOORS

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12/02/08	OWNER REVIEW
07/04/08	TENDER
01/05/08	PERMIT/ CONSTRUCTION

PROJECT

PROPOSED ADDITION TO THE ESSEX-WINDSOR FIBRE RECYCLING CENTRE

3560 NORTH SERVICE ROAD WINDSOR, ONTARIO

CLIENT

ESSEX-WINDSOR SOLID WASTE AUTHORITY

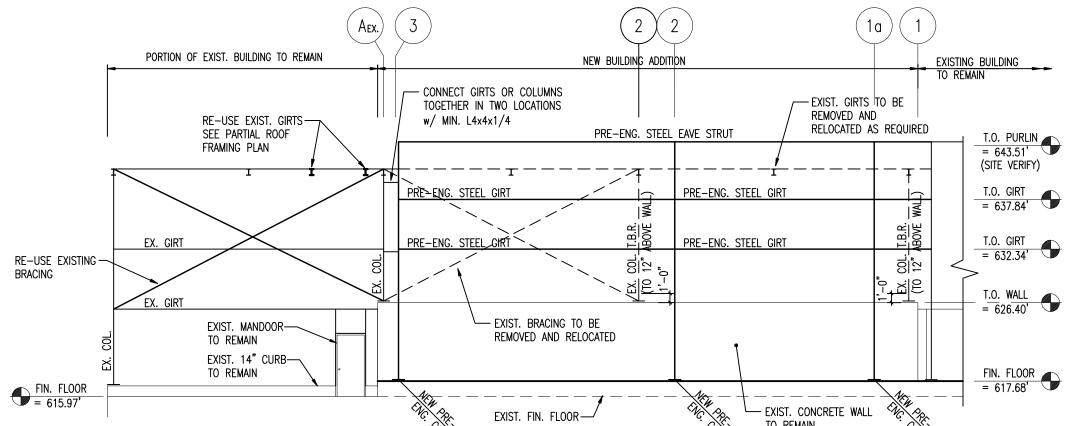
DRAWING TITLE

PARTIAL FOUNDATION PLAN AND STEEL FRAMING **ELEVATIONS**

SCALE : AS NOTED
DRAWN BY: JLD
CADFILE: M07-317 PLANS.dwg
CHECKED BY : DCM
PROJECT FILE NO. M07-317

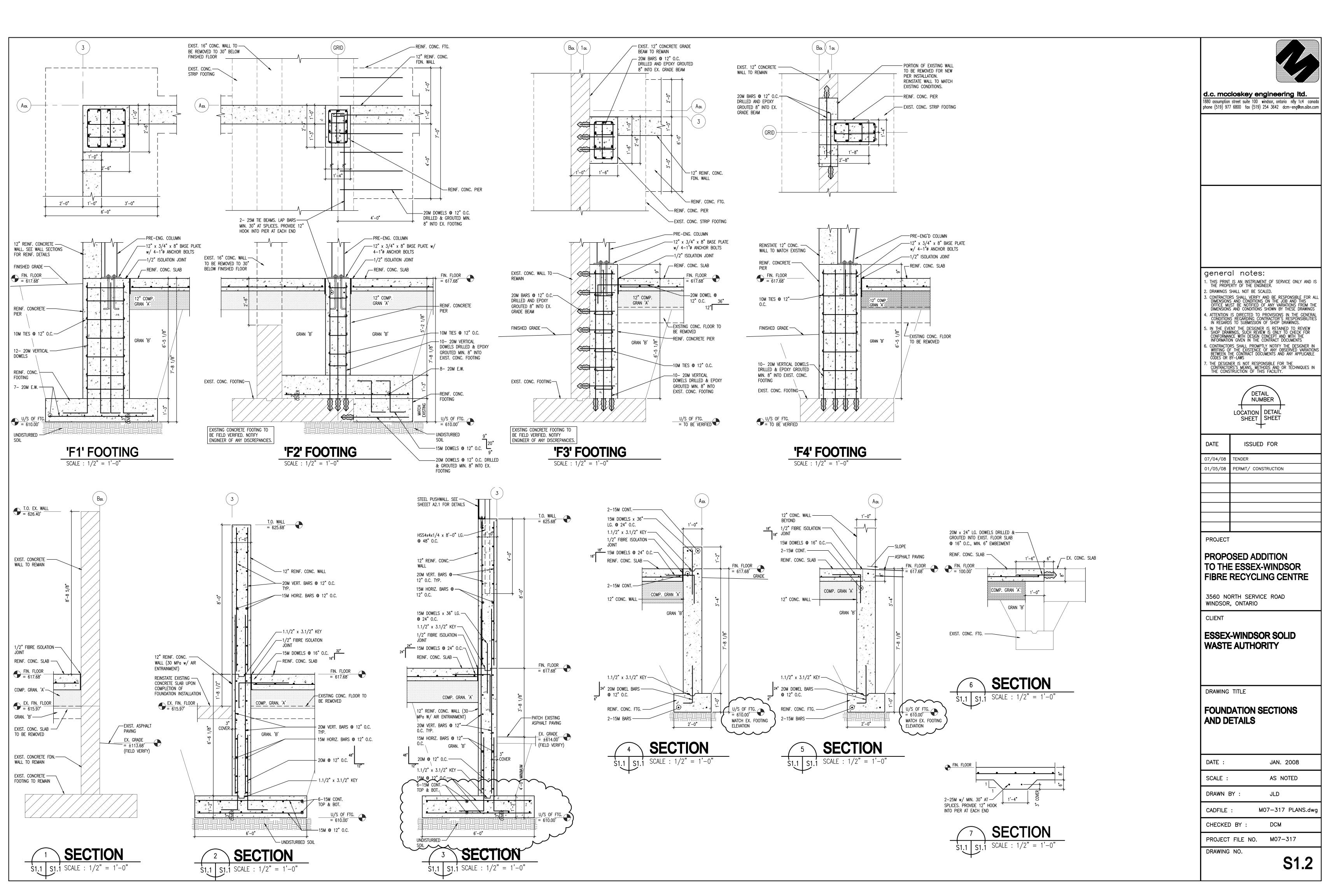
DRAWING NO. **S1.1**

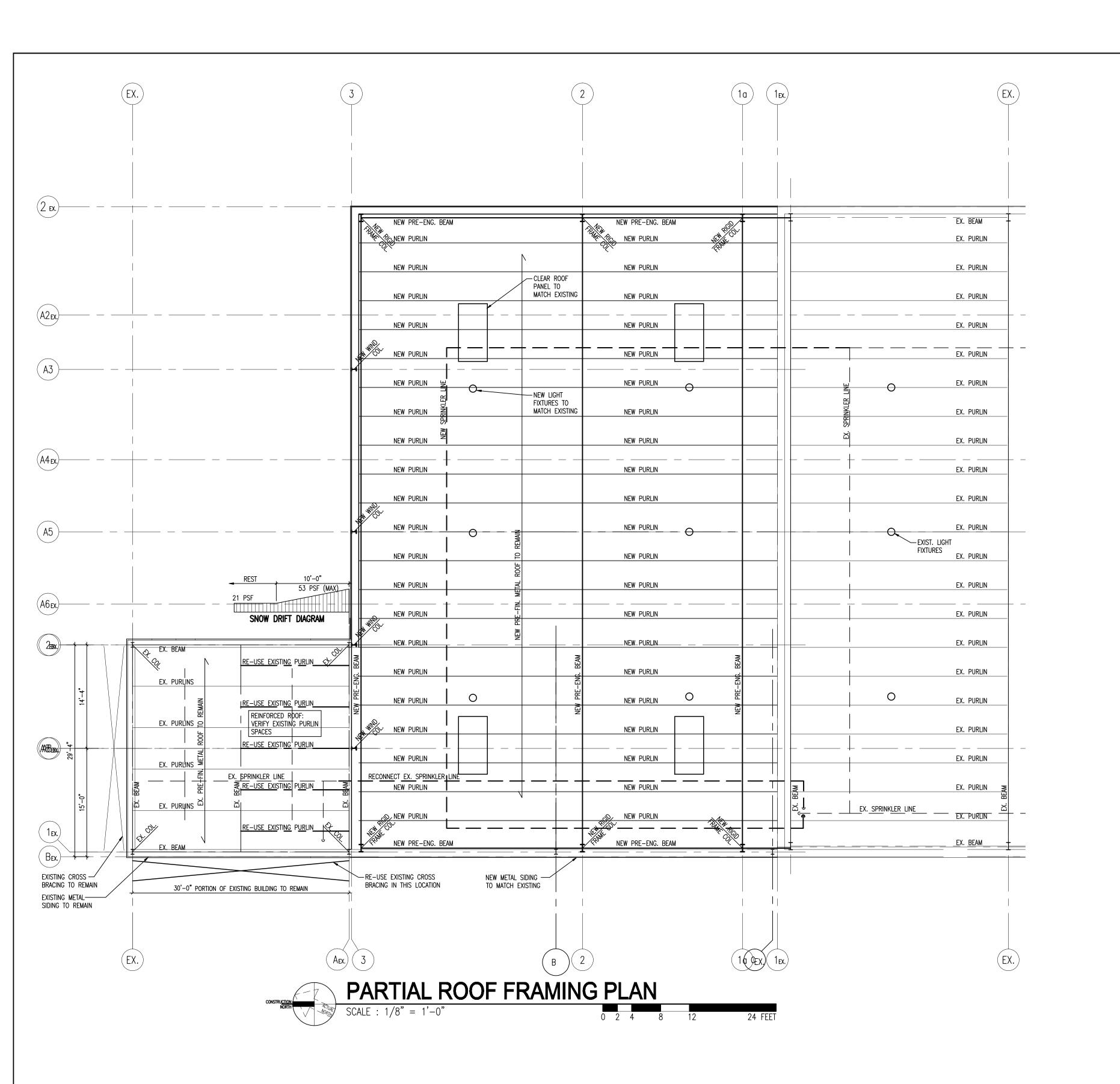
NORTH STEEL FRAMING ELEVATION ALONG GRID '3' SCALE : 3/32" = 1'-0"



WEST STEEL FRAMING ELEVATION ALONG GRID 'BEX'

SCALE : 3/32" = 1'-0"





STRUCTURAL STEEL

THE ONTARIO BUILDING CODE AND C.S.A. S16 LATEST EDITION SHALL BE THE BASIS FOR DESIGN, FABRICATION AND ERECTION OF ALL WORK FOR THIS PROJECT.

ALL STRUCTURAL STEEL SHALL CONFORM TO G40.21. GRADE 50W.

UNLESS OTHERWISE NOTED ALL PRINCIPLE CONNECTIONS FOR
STRUCTURAL JOINTS SHALL BE MADE WITH 3/4" DIAMETER
A.S.T.M. A-325 HIGH TENSILE BEARING TYPE BOLTS. 3/4"
DIAMETER A.S.T.M. A-307 MACHINE BOLTS MAY BE USED FOR
SECONDARY JOINTS SUCH AS PURLINS AND GIRTS. MINIMUM OF
TWO BOLTS CONNECTION AT ANY JOINT. ANCHOR BOLTS SHALL
CONFORM TO A.S.T.M. A-307.

ALL SHOP AND FIELD WELDED CONNECTIONS INCLUDING TRUSSES SHALL BE WELDED WITH E70 ELECTRODES.

ALL BEAM CONNECTIONS ARE TO C.I.S.C. HANDBOOK OF STEEL CONSTRUCTION. TWO ANGLE WELDED CONNECTIONS CAPABLE OF SUPPORTING 1.5 TIMES THE DESIGN REACTION FORCES OR THE STRENGTH OF THE MEMBER WHICHVER IS SMALLER.

ALL CONNECTIONS SHALL BE DESIGNED AND CERTIFIED BY A PROFESSIONAL ENGINEER OF THE PROVINCE OF ONTARIO. USE BEARING TYPE CONNECTIONS. ALL BRACING CONNECTIONS TO BE SLIP RESISTANT (FRICTIONS—TYPE).

PROVIDE SHELF ANGLES AND/OR CAP PLATES TO SUPPORT STEEL METAL DECK AS REQUIRED.

STEEL ERECTOR SHALL PROVIDE TEMPORARY BRACING DURING CONSTRUCTION FOR ALIGNMENT, WIND, DEAD LOAD AND CONSTRUCTION AND SUBSEQUENT REMOVAL OF THE SAME.

VERIFY ALL DIMENSIONS AND FIELD CONDITIONS BEFORE PROCESSING DETAILED SHOP DRAWINGS. NOTIFY THE ENGINEER OF ANY DISCREPANCIES. DO NOT COMMENCE FABRICATION UNTIL CERTIFIED SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER.

WHERE NEW STRUCTURAL STEEL MEMBERS FRAME INTO EXISTING STRUCTURAL STEEEL, THE CONTRACTORS SHALL REWORK THE EXISTING STRUCTURE AS NECESSARY.

GUSSET PLATES SHALL HAVE A MINIMUM THICKNESS OF 3/8" AT CENTRE OF COLUMNS.

HOLLOW STRUCTURAL SECTIONS TO MEET REQUIREMENTS OF CSA G40.21-M GRADE 350W.

COLD FORMED STEEL SECTIONS TO MEET REQUIREMENTS OF CSA CAN3-S136-LATEST EDITION (2001).

ALL BOLTED CONNECTIONS TO BE MADE WITH 3/4" DIAMETER

FASTENERS, TO ASTM A325M.

WELDING TO BE DONE BY COMPANIES WITH CANADIAN WELDING BUREAU DIVISION 1 OR DIVISION 2 STANDING. WELDING TO BE DONE BY OPERATORS FULLY APPROVED BY CANADIAN WELDING BUREAU CSA W47-2001. ALL WELDING TO DEVELOP FULL STRENGTH OF MEMBER UNLESS NOTED OTHERWISE. USE E70XX ELECTRODES.

ALL STRUCTURAL STEEL TO RECEIVE ONE COAT OF SHOP PRIMER TO CGSB 1-GP-40M UNLESS NOTED OTHERWISE. TOUCH UP AFTER ERECTION VERIFY PRIMER COLOUR WITH OWNER.

VERIFY ALL DIMENSION ON SITE BEFORE FABRICATION.

COLUMNS TO BE FULLY WELDED TO BASE PLATES.

ALL BEAMS, COLUMNS AND GIRTS ADJACENT TO MASONRY WALLS ARE TO BE ANCHORED AT 32" HORIZONTALLY OR 16" VERTICALLY ON CENTRE UNLESS NOTED OTHERWISE.

METAL ROOF DECK

METAL ROOF DECK TO BE 1.1/2" x 22 GAUGE (LIGHT ZINC COATED)

INTERIOR WELDING: SHALL BE WELDED TO SUPPORTING STEEL
MEMBERS WITH 3/4" DIAMETER FUSION WELDS AT 12" O/C. (1ST, 3RD
AND 5TH FLUTES)

3/4" FUSION WELDS 1 2 3 4 5 6 7

PERIMTER WELDING: TRANSVERSE WELDS AT 6" O/C (EVERY FLUTE). AND LONGITUDINAL WELDS AT 12" O/C.

SIDE LAPS TO BE CRIMPED/PUNCHED AT 12" ON CENTRE.

DECKING TO PERFORM AS A STRUCTURAL DIAPHRAM. PROVIDE ADDITIONAL WELDING AND CONNECTIONS AS REQUIRED TO ENSURE DIAPHRAM ACTION. Q=350 plf.

METAL DECK TO BE CONTINUOUS OVER THREE SPANS MINIMUM.

SHOP DRAWINGS:

1. PRE-ENGINEERED STEEL DRAWINGS.

GENERAL CONTRACTOR TO SUBMIT SHOP DRAWINGS SEALED BY LICENSED PROFESIONAL ENGINEER IN ONTARIO FOR THE FOLLOWING:

1880 assumption street suite 100 windsor, ontario n8y 1c4 canada

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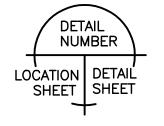
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DATE ISSUED FOR

07/04/08 TENDER

01/05/08 PERMIT/CONSTRUCTION

PROJECT

PROPOSED ADDITION
TO THE ESSEX-WINDSOR
RECYCLING CENTRE

3560 NORTH SERVICE ROAD WINDSOR, ONTARIO

CLIENT

ESSEX-WINDSOR SOLID WASTE AUTHORITY

DRAWING TITLE

PARTIAL ROOF FRAMING PLAN AND NOTES

DATE :	JAN. 2008
SCALE :	AS NOTED
DRAWN BY :	JLD
CADFILE :	M07-317 PLANS.dw

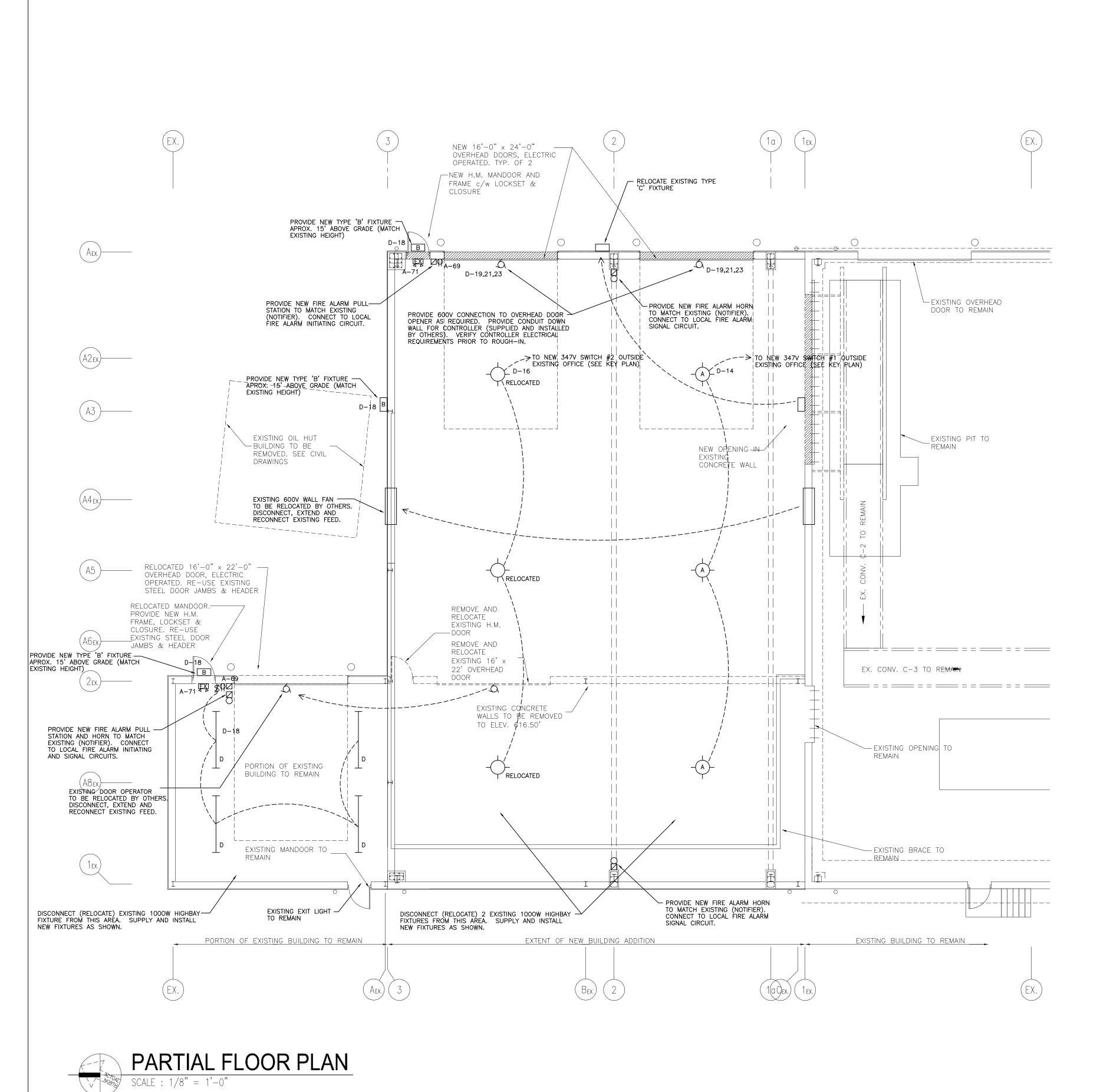
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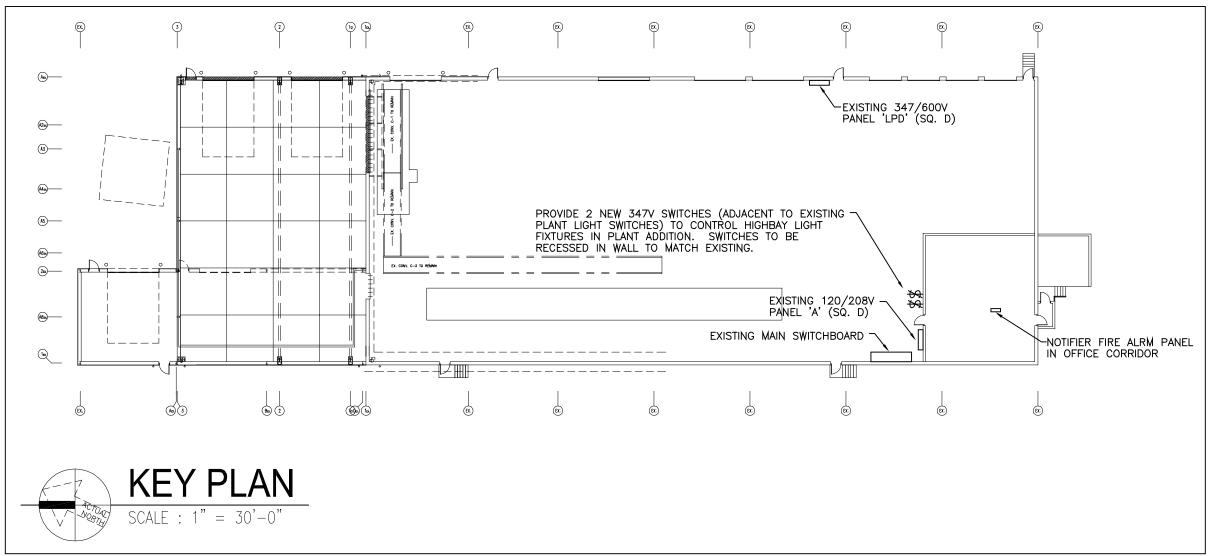
PROJECT FILE NO.

DRAWING NO.

S2.1

M07 - 317





NOTE: 1. REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS ON BUILDING CONSTRUCTION, CEILING PLANS, EQUIPMENT

2. VERIFY ELECTRICAL SPECIFICATIONS FOR ALL EQUIPMENT WITH OWNER PRIOR TO ROUGH—IN.

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3. DISCONNECT AND REMOVE EXISTING ELECTRICAL AS REQUIRED IN AREAS OF DEMOLITION (WALLS BEING

REMOVED, NEW OPENING IN EXISTING WALLS ETC.). COORDINATE ALL DEMO WITH GENERAL.

4. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS FOR ALL DEVICES & FIXTURES WITH OWNER PRIOR TO

ROUGH-IN.
5. PROVIDE NEW 120V CIRCUITS FROM EXISTING SQUARE D PANEL 'A' AS INDICATED. PROVIDE NEW BREAKERS

(TO MATCH EXISTING) AS REQUIRED. REVISE PANEL LEGEND.

6. PROVIDE NEW 347/600V CIRCUITS FROM EXISTING SQUARE D PANEL 'LPD' AS INDICATED. PROVIDE NEW

BREAKERS (TO MATCH EXISTING) AS REQUIRED. REVISE PANEL LEGEND.

7. RELOCATE THREE EXISTING 1000W HIGHBAY FIXTURES AS SHOWN. CLEAN AND RELAMP PRIOR TO INSTALLATION.

8. MOUNT EXTERIOR LIGHT FIXTURES AT SAME HEIGHT AS EXISTING. TYPE 'B' (WALL PACKS) TO BE COMPLETE

	FIXTURE SCHEDULE
TYPE	DESCRIPTION
A	1000W METAL HALIDE HIGHBAY FIXTURE c/w CLEAR LENS AND 347V BALLAST TO MATCH EXISTING.
В	EXTERIOR WALL MOUNT FIXTURE c/w INTEGRAL PHOTOCELL AND 347V BALLAST TO MATCH EXISTING.
D	TANDEM 4' FLUORESCENT INDUSTRIAL FIXTURE c/w 347V ELECTRONIC BALLAST AND FOUR T8 LAMPS. METALUX: 8TIC-232-347V-EB81, OR APPROVED EQUAL
EX	COMBINATION EXIT/EMERGENCY LIGHT c/w RED LETTERS ON WHITE FINISH, LED LAMPS, UNIVERSAL FACE, 6V BATTERY & TWO 9W EMERG. LAMPS. BEGHELLI: SL-E-6-36-L-R-U-W-2SR-9W

NOTE: 1. FLUORESCENT LAMPS TO BE 4100K, UNLESS OTHERWISE NOTED.
2. VERIFY MOUNTING HEIGHT OF ALL FIXTURES PRIOR TO ROUGH—IN.

P.B.S. ENGINEERING INC.

3200 ELECTRICITY DRIVE
WINDSOR, ONTARIO
N8W 5J1

phone: (519) 945-1000
fax: (519) 974-7438

e-mail: rshaw@poirierelectric.com

QUALIFIED DESIGNERS
AS SET OUT IN THE ONTARIO BUILDING CODE
P.B.S. ENGINEERING INC. BCIN: 28848

YVES POIRIER, P.ENG. BCIN: 26607

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APR 8/08 TENDER
DATE: ISSUED FOR:

PROJECT:

PROPOSED ADDITION TO ESSEX-WINDSOR RECYCLING CENTRE 3560 NORTH SERVICE ROAD

WINDSOR, ONTARIO

DRAWING TITLE:

ELECTRICAL PLAN

DESIGNED: R.S.

DRAWN: R.S.

CHECKED: Y.P.

SCALE: AS SHOWN

DATE: APRIL, 2008

DRAWING NO:

E-1

GENERAL CONDITIONS

- 1. INSTRUCTIONS TO BIDDERS, FORM OF TENDER, FORM OF CONTRACT AND DIVISION 1 FORM PART OF THIS SECTION.
- 2. ALL DRAWINGS AND SPECIFICATIONS ARE AN INSTRUMENT OF SERVICE ONLY AND REMAIN THE PROPERTY OF THE ENGINEER
- 3. PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND SPECIFICATIONS. PERFORM THE ENTIRE INSTALLATION IN ACCORDANCE WITH THE LATEST EDITION, INCLUDING ALL BULLETINS, OF THE ONTARIO ELECTRICAL SAFETY CODE, THE ONTARIO BUILDING CODE, AND ALL OTHER RULES, ORDINANCES, CODES, LAWS OR REGULATIONS WHETHER THEY BE LOCAL, PROVINCIAL OR

PERMITS, TESTS AND REGULATIONS

- 1. BEFORE TENDERING, BECOME FULLY ACQUAINTED WITH THE BY-LAWS OF ANY LOCAL OR OTHER AUTHORITY HAVING JURISDICTION. WORK IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, MEET THE LATEST REGULATIONS OF THE ONTARIO ELECTRICAL SAFETY CODE AND LATEST MUNICIPAL, PROVINCIAL AND FEDERAL CODES AND REGULATIONS. THE CODE, REGULATION, STATUTE, BY-LAW OR THIS SPECIFICATION HAVING THE MOST STRINGENT REQUIREMENT APPLIES. SHOULD ANYTHING IN THE DRAWINGS OR SPECIFICATIONS NOT CONFORM WITH THIS, AND WHICH INVOLVES AN INCREASE OR DECREASE IN THE TENDER PRICE, NOTIFY THE ENGINEER IN WRITING AT THE TIME OF TENDER AND MAKE ALLOWANCE
- 2. SUBMIT TO THE ELECTRICAL SAFETY AUTHORITY AND ELECTRICAL UTILITY AUTHORITY THE NECESSARY NUMBER OF WORKING DRAWINGS AND SPECIFICATIONS FOR EXAMINATION AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. THESE DRAWINGS TO BE PROVIDED BY THE CONSULTANT
- 3. CARRY OUT ALL CHANGES AND ALTERATIONS REQUIRED BY THE AUTHORIZED INSPECTOR OF ANY AUTHORITY HAVING JURISDICTION WITHOUT DELAY TO THE PROGRESS OF THE WORK AND WITHOUT EXTRA COST.
- 4. OBTAIN AND PAY FOR ALL TEMPORARY AND PERMANENT PERMITS REQUIRED. ALL COSTS SHALL BE INCLUDED IN THE TENDER PRICE.
- 5. DELIVER A COPY OF ALL PERMITS TO THE ARCHITECT AND/OR PRIME CONSULTANT AS SOON AS THEY BECOME AVAILABLE. 6. ARRANGE FOR INSPECTION OF ALL ELECTRICAL WORK AS REQUIRED BY THE ELECTRICAL SAFETY AUTHORITY. PROVIDE ALL WARNING SIGNS AS
- SPECIFIED OR TO MEET THE REQUIREMENTS OF THE INSPECTION DEPARTMENT. 7. UPON COMPLETION OF THE CONTRACT, ISSUE TO THE OWNER A FORMAL CERTIFICATE OF COMPLETION OF THE WORK, A COPY OF THE FINAL

1. ON THREE SETS OF PRINTS OF THIS PROJECT, MARK ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL PLANS, IN RED INK.

ELECTRICAL INSPECTION CERTIFICATE FROM THE INSPECTION DEPARTMENT.

- 2. UPON COMPLETION OF THE PROJECT, TURN THESE PLANS OVER TO THE OWNER FOR RECORD OF THE EXACT LOCATION AND DETAILS OF ALL
- 3. CERTIFY THESE PLANS AS 'AS-BUILT'. PLANS ARE NOT CONSIDERED CERTIFIED UNLESS THEY ARE SIGNED AND SEALED BY AN OFFICER OF
- 4. OBTAIN ELECTRICAL DRAWINGS IN AUTOCAD FORMAT FROM THE CONSULTANT AND MAKE ALL CHANGES FOR A FINAL SET OF 'AS-BUILT' ELECTRONIC FILES. COPY DRAWING FILES TO CD AND TURN OVER TO OWNER. ALL COSTS INVOLVED IN PREPARING THESE DRAWINGS AND FILES TO BE INCLUDED IN THE TENDER PRICE.
- 5. PREPARE THREE SETS OF MAINTENANCE MANUALS COMPETE WITH COPIES OF EQUIPMENT SHOP DRAWINGS, INSPECTION REPORTS VERIFICATIONS ETC. TURN MANUALS OVER TO OWNER.

- 1. SUBMIT 6 SETS OF MANUFACTURER'S SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW. THESE SHOP DRAWINGS SHALL CONSIST OF ALL DISTRIBUTIONS EQUIPMENT, LIGHT FIXTURES, EXIT AND EMERGENCY LIGHTING, FIRE ALARM EQUIPMENT AND OTHER SPECIAL SYSTEM AND
- 2. THE ENGINEER'S REVIEW OF SHOP DRAWING IS TO CHECK FOR CONFORMANCE WITH THE DESIGN INTENT AND SHALL NOT ALLEVIATE THE CONTRACTOR FROM HIS CONTRACTUAL RESPONSIBILITY FOR ITS CORRECTNESS AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

- 1. VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH EXISTING SYSTEMS AND SITE CONDITIONS SO AS NOT TO OVERLOOK ANY CONDITIONS
- WHICH MAY AFFECT THE SCOPE OF WORK. FOR ANY SUCH ITEM WHICH COULD BE FORESEEN, NO EXTRA WILL BE ALLOWED. 2. NOTIFY THE ENGINEER, IN WRITING, OF ANY VARIATIONS OR DISCREPANCIES BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE SITE CONDITIONS PRIOR TO SUBMITTING TENDER.

- 1. NO EXTRA CHARGES SHALL BE HONOURED EXCEPT WHERE THE CONTRACTOR RECEIVES A WRITTEN ORDER COUNTERSIGNED OR OTHERWISE APPROVED BY THE ARCHITECT OR ENGINEER. ALL CLAIMS FOR EXTRAS SHALL BE SUBMITTED FOR APPROVAL ALONG WITH ITEMIZED BREAKDOWNS OF ALL LABOUR AND MATERIAL
- 2. AFTER THE APPROVAL OF DRAWINGS, THE RIGHT IS RESERVED TO MAKE REASONABLE CHANGES IN THE DESIGN OF THE WORK OR TO OMIT ANY SUCH PARTS AS THE OWNER MAY REQUIRE. IN THE CASE WHERE WORK OR MATERIAL IS ADDED TO, OR DEDUCTED FROM, THE WORK HEREIN SPECIFIED, A FAIR AND REASONABLE VALUATION OF THE SAME SHALL BE ADDED TO, OR DEDUCTED FROM, THE AMOUNT OF THIS

1. GUARANTEE IN WRITING THAT ALL MATERIALS AND WORKMANSHIP USED ON THIS PROJECT ARE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND WILL GIVE PROPER AND EFFICIENT OPERATION AND ARE FREE FROM MECHANICAL OR ELECTRICAL DEFECTS. REPAIR AND/OR REPLACE ANY DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE YEAR AFTER THE WRITTEN ACCEPTANCE OF SAME BY THE OWNER, EXCEPT DUE TO ORDINARY WEAR AND TEAR, WITHOUT ADDITIONAL EXPENSE TO THE OWNER. NOTE THAT THE ONE YEAR PERIOD REFERRED TO ABOVE MAY EXCEED THE EQUIPMENT GUARANTEE APPRECIABLY, AND ALLOWANCE MUST BE MADE FOR THIS FACT. THIS GUARANTEE DOES NOT SUPERCEDE THE MANUFACTURER WARRANTY IF LONGER THAN THE ONE YEAR WARRANTY.

- 1. REMOVE ALL DEBRIS AND KEEP THE SITE CLEAN AND CLEAR. STORE ALL WORK RELATED MATERIALS AND EQUIPMENT OUT OF THE PUBLIC EYE AT THE END OF EACH WORKDAY.
- 2. STORE PACKAGED MATERIALS AND EQUIPMENT IN ORIGINAL UNDAMAGED CONDITION WITH MANUFACTURER'S LABELS AND SEALS INTACT. PREVENT DAMAGE TO MATERIALS DURING HANDLING AND STORAGE.
- 3. THE MAINTENANCE AND OPERATION OF ALL EQUIPMENT INSTALLED WILL BE THE FULL RESPONSIBILITY OF THIS CONTRACTOR UNTIL ACCEPTANCE BY THE ENGINEER. PROTECT ALL EQUIPMENT TO PREVENT ITS MISUSE SINCE ALL DAMAGE WILL BE THE CONTRACTOR'S RESPONSIBILITY.

CLEAN-UP AND FINAL DOCUMENTS

1. ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL SURPLUS WASTE MATERIALS, CLEAN ALL FIXTURES AND EQUIPMENT, AND

- LEAVE ALL ITEMS IN PERFECT ORDER AND READY FOR OPERATION, 2. UPON COMPLETION OF THE WORK, ISSUE TO THE OWNER THROUGH THE ARCHITECT OR ENGINEER:
- A. THREE COPIES OF 'AS-BUILT' DRAWINGS
- B. ONE CD OF 'AS-BUILT' ELECTRONIC FILES IN AUTOCAD FORMAT.
- C. FINAL ELECTRICAL INSPECTION CERTIFICATE D. FIRE ALARM VERIFICATION, WHERE APPLICABLI
- . FINAL COMPLETION AND GUARANTEE CERTIFICATES F. SHORT CIRCUIT AND/OR COORDINATION STUDY WHERE APPLICABLE.
- THE ENGINEER'S FINAL ACCEPTANCE OF THE WORK IS CONTINGENT UPON THESE BEING RECEIVED.

<u>DRAWINGS</u>

- 1. THIS CONTRACTOR SHALL HAVE REFERENCE TO ALL DRAWINGS ISSUED FOR THE CONSTRUCTION OF THIS PROJECT. INCLUDING THE ELECTRICAL DRAWING WHICH DETAIL THE WORK TO BE PERFORMED BY HIM. CARE HAS BEEN EXERCISED IN MAKING THE DRAWINGS AS ACCURATE AS POSSIBLE. HOWEVER, SHOULD ANY VARIATION EXIST BETWEEN MEASURED AND GIVEN DIMENSIONS, NO CLAIM FOR EXTRA PAYMENT WILL BE ALLOWED ON THIS CONTRACT.
- 2. THE DRAWINGS SHOW THE GENERAL DESIGN AND EXTENT OF THE WIRING AND OTHER SYSTEMS. THE MAINS AND DISCONNECTS ARE SHOWN MORE OR LESS IN DIAGRAM AND GENERAL LOCATION, EXCEPT IN CERTAIN CASES WHERE DETAILS SHOW EXACT LOCATIONS AND DIMENSIONS. ANY NECESSARY CHANGES REQUIRED TO ACCOMMODATE STRUCTURAL CONDITIONS ARE DONE WITHOUT ADDITIONAL CHARGE OR EXPENSE OT THE OWNER. NOTIFY THE ENGINEER IMMEDIATELY AND SECURE HIS WRITTEN AUTHORIZATION PRIOR TO PROCEEDING WITH THIS WORK.

DELIVERY DATES

1. ORDER ALL MATERIAL AND EQUIPMENT IMMEDIATELY AFTER THE AWARD OF THIS CONTRACT. SUBMIT A LIST OF DELIVERY DATES FOR EACH TYPE OF EQUIPMENT WITHIN 30 DAYS, LIST SHALL INCLUDE MANUFACTURER.

COORDINATION

- 1. START WORK AND PROCEED AS SOON AS POSSIBLE AFTER THE CONTRACT HAS BEEN AWARDED, AND IN ACCORDANCE WITH THE CONSTRUCTION
- 2. COOPERATE WITH OTHER TRADES WHOSE WORK IS AFFECTED BY THIS CONTRACT TO ENSURE A SATISFACTORY INSTALLATION AND TO AVOID
- DELAYS IN THE COMPLETION OF THE WORK. 3. COORDINATE WITH OTHER TRADES DURING PROGRESS OF THE WORK TO AVOID CONFLICTS OF LOCATION OF EQUIPMENT. WHERE SUCH CONFLICTS ARISE. IT SHALL BE SETTLED BY THE ENGINEER. WORK FORMING PART OF THE CONTRACT SHALL BE COMMENCED ONLY AFTER COORDINATION MEETINGS WITH OTHER TRADES UNDER THE DIRECTION OF THE ENGINEER. ALTERATIONS REQUIRED DUE TO FAILURE TO COMPLY

<u>IDENTIFICATION</u>

- 1. PROVIDE LAMACOID IDENTIFICATION NAMEPLATES FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT INCLUDING PANELBOARDS, DISCONNECT SWITCHES, TRANSFORMERS, METERING EQUIPMENT ETC. NAMEPLATES SHALL BE BLACK WITH WHITE ENGRAVED LETTERS OF SUITABLE SIZE AND
- 2. EACH PANELBOARD SHALL HAVE A TYPEWRITTEN CIRCUIT DIRECTORY MOUNTED ON THE INSIDE DOOR WITH A METAL FRAME AND CLEAR PLASTIC

DEMONSTRATION OF SYSTEMS

1. DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM TO THE OWNER AS PART OF THIS CONTRACT.

- 1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING, PATCHING, SLEEVE OPENINGS ETC. THIS CONTRACTOR IS RESPONSIBLE FOR INFORMING THE GENERAL CONTRACTOR OF ANY CUTTING, PATCHING AND SLEEVE OPENINGS PRIOR TO TENDER CLOSING SO THAT ALLOWANCES CAN
- 2. COORDINATE ALL SLEEVES AND OPENINGS WITH THE GENERAL CONTRACTOR PRIOR TO INSTALLATION. ANY CUTTING AND PATCHING WHICH IS REQUIRED AFTER WALLS HAVE BEEN ERECTED SHALL BE DONE SO BY THE GENERAL CONTRACTOR AT THIS CONTRACTOR'S EXPENSE.

EQUIPMENT AND MATERIAL

- 1. UNLESS OTHERWISE NOTED, ALL EQUIPMENT AND MATERIAL USED ON THIS PROJECT MUST BE NEW AND FREE FROM DEFECTS. 2. ALL EQUIPMENT INSTALLED MUST BE APPROVED BY THE CANADIAN STANDARDS ASSOCIATION, UNDERWRITERS LABORATORIES OF CANADA, WHERE
- APPLICABLE, AND/OR OTHER APPROVAL AGENCIES AS REQUIRED, AND SHALL BEAR THE APPROPRIATE LABELS.
- 4. ALL FUSES TO BE HRC-1, CLASS J TYPE, UNLESS CONNECTED LOAD SPECIFIES OTHERWISE.

WITH THIS CLAUSE SHALL BE DONE AT THIS CONTRACTOR'S EXPENSE.

3. ALL SERVICE EQUIPMENT SHALL BE RATED HEAVY DUTY INDUSTRIAL.

- 1. MAKE AVAILABLE A FOREMAN TO SUPERVISE THE ELECTRICAL INSTALLATION, WHO IS EXPERIENCED IN HANDLING JOBS OF THIS TYPE AND MAGNITUDE. THIS FOREMAN MUST COOPERATE FULLY WITH OTHER TRADES AND BE AVAILABLE AT ALL TIMES FROM THE TIME CONSTRUCTION COMMENCES UNTIL THE CONTRACT HAS BEEN COMPLETED TO THE SATISFACTION OF THE ENGINEER.
- 2. PERFORM ALL WORK AS REQUIRED TO MEET THE COMPLETION DATES AS SET OUT BY THE OWNER. COSTS OF ANY OVERTIME REQUIRED TO MEET THE SCHEDULE SHALL BE INCLUDED IN THE TENDER PRICE.

- 1. MINIMUM CONDUIT SIZE SHALL BE 1/2" (12mm). OTHER SIZES SHALL BE AS INDICATED ON THE DRAWINGS OR AS REQUIRED BY THE OESC/CEC FOR THE NUMBER AND SIZE OF CONDUCTOR INSTALLED.
- 2. ALL CONDUIT IN FINISHED AREAS SHALL BE CONCEALED IN WALLS OR CEILING SPACES. ANY EXCEPTION SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION.
- 3. ALL SURFACE CONDUIT SHALL BE INSTALLED NEATLY, TO THE SATISFACTION OF THE ENGINEER.
- 4. ALL CONDUIT TO BE INSTALLED PARALLEL TO BUILDING LINES.
- 5. UNLESS OTHERWISE NOTED, CONDUITS INSTALLED FOR PANEL FEEDERS AND BRANCH CIRCUIT WIRING SHALL BE EMT.
- 6. CONDUIT INSTALLED BELOW GRADE, OR CONCRETE GRADE SLAB, SHALL BE RIGID PVC APPROVED AS ELECTRICAL RACEWAY
- 7. CONDUITS SHALL BE INSTALLED A MINIMUM OF 6" FROM UNINSULATED HEATING PIPES AND CONDUITS CARRYING COMMUNICATION WIRING. 8. INSTALL CONDUIT AS A COMPLETE SYSTEM WITHOUT WIRES. CONTINUE CONDUIT FROM FITTING TO FITTING AND FASTEN SECURELY IN PLACE.
- CLEAN ALL CONDUIT INTERIORS REMOVING DEBRIS AND BURRS PRIOR TO INSTALLATION OF WIRING OR PULL STRINGS. 9. FASTEN SINGLE CONDUIT RUNS TO MASONRY OR STRUCTURAL STEEL WITH GALVANIZED ONE MALLEABLE IRON CONDUIT CLAMPS. USE
- PREFORMED GALVANIZED STEEL CHANNELS FOR MOUNTING OF GROUPED MULTIPLE CONDUIT RUNS AND FASTEN CONDUIT WITH GALVANIZED
- 10. CUT ALL CONDUITS SQUARE AND REAM TO REMOVE ALL SHARP EDGES AND BURRS. FIT CONDUITS CLOSELY AND TIGHTLY ON COUPLINGS AND MAKE WATERTIGHT. ENSURE THAT THREADS ARE CLEAN AND SHARP TO PROVIDE A LOW RESISTANCE GROUND PATH.
- 11. UNLESS OTHERWISE NOTED OR APPROVED, ARMOURED CABLE 'BX' TO BE USED FOR FIXTURE AND DEVICE DROPS ONLY (MAXIMUM 10') AND TO BE INSTALLED NEATLY, IN A WORKMANLIKE MANNER.
- 12. SUPPORT ALL WIRING, CONDUITS AND CABLES INDEPENDENTLY OF ANY SUSPENDED CEILING COMPONENTS
- 13. WHERE POWER OR LIGHTING PANELS ARE RECESSED IN WALLS, PROVIDE THREE 1" EMPTY CONDUITS FROM THE PANEL UP TO THE ACCESSIBLE CEILING SPACE AND TERMINATE IN A JUNCTION BOX.
- 14. USE FLEXIBLE METAL CONDUIT FOR CONNECTION TO MOTORS AND ANY EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT. WHEN ABOVE EQUIPMENT IS EXPOSED TO WET CONDITIONS, USE LIQUID TIGHT FLEXIBLE CONDUIT.
- 15. FOR COMMUNICATION, SIGNAL AND THERMOSTAT WIRING, WHERE COMPLETE CONDUIT SYSTEM IS NOT REQUIRED, PROVIDE CONDUIT TO ACCESSIBLE CEILING SPACE.
- 16. INSTALL PULL WIRE IN EACH EMPTY CONDUIT PROVIDED FOR FUTURE USE BY OTHERS.
- 17. CAP ALL CONDUITS DURING CONSTRUCTION.
- 18. OUTLET BOXES, JUNCTION BOXES, PANEL TUBS ETC. SHALL BE SUPPORTED INDEPENDENT OF THE CONDUITS RUNNING TO THEM.

PULL AND JUNCTION BOXES

2. PROVIDE PULL BOXES ON CONDUIT RUNS OF 100' OR MORE

- 1. PROVIDE ALL INCIDENTAL ACCESSORIES, MOUNTING HARDWARE AND MISCELLANEOUS MATERIALS REQUIRED FOR A COMPLETE ELECTRICAL SYSTEM

- 7. HANGERS FOR ELECTRICAL CONDUITS SHALL BE GALVANIZED AFTER FABRICATION.
- B. CANTRUSS

- 2. BRANCH WIRING, FEEDERS, SUB FEEDERS ETC. SHALL BE 600V MINIMUM, STRANDED COPPER CONDUCTORS WITH RW90 OT T90 TYPE
- 3. UNLESS OTHERWISE NOTED, MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG. #14 SHALL BE ACCEPTABLE FOR CONTROL WIRING.
- 5. WHERE CONDUCTOR SIZES ARE NOT INDICATED, THEY SHALL BE SIZED TO ENSURE THE VOLTAGE DROP DOES NOT EXCEED THE REQUIREMENTS
- SURFACE WIRING SHALL BE INSTALLED NEATLY IN CONDUIT.
- SCHEME ONLY. REFER TO EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND DIAGRAMS FOR EXACT INSTALLATION REQUIREMENTS AND PROVIDE AS SUCH. THE SPECIFICATION STANDARDS HEREIN SHALL NOT BE REDUCED.
- CABLE SHEATHS, CONDUCTORS OR INSULATION. ENSURE THAT CABLES ARE NOT DAMAGED BY EXCESS TENSION WHEN PULLING.
- DAMAGED AND REJECTED CABLES WITHOUT COST TO THE OWNER, 10. USE SUITABLE NON-HARDENING CABLE LUBRICANTS, WHERE REQUIRED, WHICH DO NOT CONTAIN ANY MATERIALS SUCH AS OIL, GREASE OR OTHER COMPOUNDS INJURIOUS TO RUBBER, PVC OR POLYETHYLENE.
- 1, THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE OESC/CEC AND THE

SERVICE AND DISTRIBUTION

- 1. SUPPLY AND INSTALL MAIN SERVICE AND DISTRIBUTION EQUIPMENT AS INDICATED ON THE DRAWINGS. COORDINATE SERVICE INSTALLATION WITH LOCAL SUPPLY AUTHORITY PRIOR TO COMMENCEMENT OF WORK. VERIFY ALL METERING AND SERVICE REQUIREMENTS WITH LOCAL SUPPLY
- 2. SUPPLY AND INSTALL ALL REQUIRED METER SOCKETS, METER CABINETS, C/T SPACES, REMOTE METERS ETC. AS PER LOCAL SUPPLY AUTHORITY REQUIREMENTS.
- 3. OBTAIN AVAILABLE FAULT CURRENT LEVELS AT DEMARCATION POINT FROM LOCAL UTILITY. BASE DON THIS INFORMATION AND MAIN FEEDER CONDUCTOR LAYOUT AND LENGTHS. VERIFY AVAILABLE FAULT CURRENT LEVELS AT MAIN, AND THROUGHOUT SYSTEM. PROVIDE EQUIPMENT OF
- 4. SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE, QUICK-MAKE, QUICK-BREAK C/W VOIDABLE COVER INTERLOCK, LOCKABLE IN THE 'OFF' POSITION WITH NEUTRAL BAR WHERE REQUIRED. FUSE HOLDERS SHALL BE AS REQUIRED TO SUIT RATING AND TYPE OF FUSE WITHOUT
- 5. ALL FUSES TO BE HRC-1, CLASS J UNLESS CONNECTED LOAD SPECIFIES OTHERWISE.
- 6. PROVIDE PANELBOARDS OF DEAD-FRONT CIRCUIT BREAKER TYPE, EEMAC 1 ENCLOSURE UNLESS OTHERWISE NOTED. PANELBOARDS TO BE COMPLETE WITH HINGED DOOR AND TYPEWRITTEN CIRCUIT DIRECTORY MOUNTED ON THE INSIDE OF THE DOOR IN METAL FRAME WITH CLEAR PLASTIC COVER. SUPPLY PANELS WITH BOLT-ON CIRCUIT BREAKERS. WHERE MULTIPLE UNIT BREAKERS ARE SPECIFIED, COMMON TRIP
- SHALL BE KEYED ALIKE AND SUFFICIENT KEYS SHALL BE PROVIDED TO THE OWNER.
- 8, CIRCUIT DIRECTORY SHALL INDICATE EQUIPMENT CONNECTED ON EACH CIRCUIT, DIRECTORIES SHALL BE LISTED IN TWO COLUMNS TO MATCH
- 9. CIRCUIT BREAKERS SHALL HAVE THERMAL MAGNETIC TRIP PROTECTION AND OVERLOAD PROTECTION. INTERRUPTING CAPACITY OF THE BREAKERS SHALL BE A MINIMUM OF 10KA OR AS REQUIRED TO MEET THE AVAILABLE FAULT CURRENT AT THE PANEL.
- 10. PROVIDE LOCK-ON DEVICES FOR BREAKERS FEEDING FIRE ALARM, EXIT AND EMERGENCY LIGHTING, DOOR OPERATORS, NIGHT LIGHTS AND ANY OTHER DEVICES AS REQUESTED.
- 12. PERFORM SHORT CIRCUIT/COORDINATION STUDY AS REQUIRED ON MAIN DISTRIBUTION SYSTEM AND INCLUDE SETTING OF PROTECTION DEVICES,
- IF REQUIRED. SUBMIT COPY OF REPORTS TO THE OWNER, THROUGH THE ARCHITECT OR ENGINEER. 13. ALL SWITCHES AND ALL PANELBOARDS TO BE OF THE SAME MANUFACTURER AND EQUAL TO:
- A, CUTLET HAMMER B. FEDERAL PIONEER
- . SQUARE D D. SIEMENS

INSTALLATION OF OUTLETS

- 1. THE DRAWINGS SHOW THE APPROXIMATE LOCATION OF DEVICES. DEVICES MAY BE MOVED UP TO 10' PRIOR TO INSTALLATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER. FINAL LOCATION TO BE COORDINATED ON SITE WITH OTHER TRADES, ARCHITECTURAL DRAWINGS ETC.
- 2. FOR COMMUNICATION OUTLETS, PROVIDE DEVICE BOX c/w 3/4" CONDUIT TO ACCESSIBLE CEILING SPACE, UNLESS OTHERWISE INDICATED.
- 5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHTS. UNLESS OTHERWISE NOTED, MOUNTING HEIGHT OF DEVICES FROM
- A. RECEPTACLES 12" B. COMMUNICATION OUTLETS - 12"
- D. OUTLETS IN SERVICE ROOMS 48" E. PANELBOARDS - 6' (TO TOP OF PANEL)

- 1. PROVIDE PULL AND JUNCTION BOXES OF SIZE AND TYPE TO MEET OESC/CEC REQUIREMENTS.

- 2. PROVIDE PREFORMED CHANNELS AND FITTINGS FOR MOUNTING OF PANELS, SWITCHES ETC.
- 3. PROVIDE ANY STRUCTURAL WORK REQUIRED FOR MOUNTING OF ELECTRICAL EQUIPMENT. MOUNT EQUIPMENT REQUIRED FROM A FRAME OR PLATFORM BRACKETED FROM THE WALL OR SUSPENDED FROM ABOVE. STRUCTURAL STEEL SHALL HAVE TWO COATS OF PRIMER AND TWO COATS
- 4. EMPLOY THE SERVICES OF A STRUCTURAL ENGINEER TO VERIFY THE STRENGTH OF WALL, CEILING AND FRAME OR PLATFORM IN QUESTION.
- 5. PROVIDE ALL BRACKETS , HANDERS, MISCELLANEOUS FITTINGS AND RODS, AS REQUIRED FOR INSTALLATION OF CABLE TRAYS
- 6. ENSURE THAT ALL CUT PIECES OF MATERIAL HAVE A PRIME COAT OF ZINC-RICH PAINT BEFORE INSTALLATION.
- 8. SUPPLY MATERIALS OF THE FOLLOWING MANUFACTURER: A. UNISTRUT

C. PILGRIM

- 1. UNLESS OTHERWISE NOTED, ALL ELECTRICAL WIRES AND CABLES TO HAVE COPPER CONDUCTORS.
- 4. CONDUCTOR SIZES SHALL BE IN ACCORDANCE WITH THE OESC/CEC AND/OR AS INDICATED ON THE DRAWINGS.
- 6. ALL NEW WIRING SHALL BE CONCEALED IN WALL AND CEILING SPACES. ANY EXCEPTION SHALL BE APPROVED BY THE ARCHITECT. ALL
- 7. WHERE NUMBER OF CONDUCTORS IS INDICATED FOR EQUIPMENT AND CONTROL WIRING ETC., THE QUANTITY IS INTENDED TO SHOW GENERAL
- 8. FOLLOW NORMAL RECOMMENDED PRACTICES WHEN INSTALLING CABLES IN TRENCHES, CABLE TRAYS, DUCT BANKS ETC. TO AVOID DAMAGE TO
- 9. PROVIDE SUITABLE ROLLERS, PULLEYS ETC. FOR PULLING CABLES AROUND SHARP CORNERS TO MAINTAIN BENDING RADIUS. REPLACE ANY

LOCAL UTILITY.

- AUTHORITY AND PROVIDE INSTALLATION ACCORDINGLY.
- SUITABLE RATINGS THROUGHOUT SYSTEM. RATING OF MAIN SERVICE EQUIPMENT NOT TO BE LESS THAN THAT SPECIFIED ON DRAWINGS.
- 7. PANELBOARDS TO BE OF VOLTAGE, MAIN BUS CAPACITY, CIRCUIT BREAKER RATINGS ETC. AS INDICATED ON THE DRAWINGS. ALL PANELBOARDS
- 11. BALANCE THE LOAD AT EACH PANEL SUCH THAT THE UNBALANCED LOAD IS LESS THAN 5%.

- DEVICES REQUIRING RELOCATION DUE TO LACK OF COORDINATION SHALL BE DONE AT THIS CONTRACTOR'S EXPENSE. 3. OUTLET BOXES ON EXTERIOR WALLS OR FEEDS TO OUTSIDE SHALL HAVE A VAPOUR SEAL COMPOUND TO PREVENT CONDENSATION IN THE
- 4. CHECK DIRECTION OF DOOR SWINGS ON SITE. MOUNT LIGHT SWITCHES ON LATCH SIDE OF DOORS.
- C. LIGHT SWITCHES 48" (TO TOP OF SWITCH)

FINISHED FLOOR TO BOTTOM OF DEVICE SHALL BE;

- 1. ALL DEVICES TO BE COMMERCIAL SPECIFICATION GRADE, UNLESS SPECIFIED OTHERWISE OR REQUIRED OTHERWISE BY OESC/CEC.
- 2. DUPLEX RECEPTACLES SHALL BE U-GROUND TYPE RATED FOR 15A (OR 20A WHERE INDICATED), 120V
- 3. SINGLE POLE, THREE WAY AND FOUR WAY LIGHT SWITCHES SHALL BE 20A, COMMERCIAL SPECIFICATION GRADE. 4. VERIFY COLOUR AND STYLE OF DEVICES WITH ARCHITECT PRIOR TO INSTALLATION.
- 5. PROVIDE PIGTAILS AT ALL OUTLETS FOR FIXTURES AND WIRING DEVICES. ALL NEUTRALS AND BRANCH CIRCUITS SHALL BE CONNECTED IN EACH OUTLET BOX TO A PIGTAIL IN ORDER TO AVOID A BREAK IN THE NEUTRAL OR LINE WHEN DISCONNECTING OUTLET.
 - 1. SUPPLY AND INSTALL FIXTURES AS SHOWN ON THE DRAWINGS AND FIXTURE SCHEDULE. ALL FIXTURES OF THE SAME TYPE SHALL BE OF THE SAME MANUFACTURER. PROPOSED ALTERNATE FIXTURES MUST BE EQUAL TO THE SPECIFIED FIXTURES. THIS CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE ENGINEER PRIOR TO ORDERING ALTERNATE FIXTURES.
 - 2. COORDINATE THE MOUNTING AND LOCATION OF LIGHT FIXTURES WITH OTHER TRADES TO AVOID CONFLICTS. CHECK THE AREA FOR
 - INTERFERENCE FROM PIPING, DUCTWORK AND EQUIPMENT PRIOR TO INSTALLATION OF LIGHT FIXTURES. 3. INSTALL ALL FIXTURES ACCURATELY IN LINE AND LEVEL. ALIGN FIXTURES SHOWN IN CONTINUOUS ROWS AND IN STRAIGHT LINES.
 - 4. PROVIDE AND INSTALL ANY ADDITIONAL SUPPORT BRACKETS, CLAMPS, CHANNELS, HANGERS, ETC. NECESSARY TO INSTALL THE FIXTURES WHERE SHOWN. DO NOT SUPPORT FIXTURES FROM DUCTS, PIPES, EQUIPMENT OR SUSPENDED CEILING SYSTEMS. ENSURE THAT ALL FIXTURES ARE
 - 5. FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE, T8, HIGH POWER FACTOR, SOUND RATING 'A', THD NOT TO EXCEED 10% UNLESS
 - 6. FLUORESCENT LAMPS TO BE RAPID START, T8, 4100K, WITH 20,000 HOUR LIFE EXPECTANCY, UNLESS SPECIFIED OTHERWISE. VERIFY COLOUR TEMPERATURE OF LAMPS WITH OWNER PRIOR TO ORDERING. 7. ALL INCANDESCENT LAMPS SHALL BE MEDIUM BASE, RATED 130V, WITH 1000 HOUR LIFE EXPECTANCY, UNLESS OTHERWISE SPECIFIED.
 - EXIT/EMERGENCY LIGHTING

WIRING DEVICES

- 1. SUPPLY AND INSTALL FIXTURES AS INDICATED ON DRAWINGS.
- 2. EMERGENCY BATTERY UNITS SHALL BE SELF-CONTAINED, FULLY AUTOMATIC, 100% SOLID STATE, AS NOTED IN FIXTURE SCHEDULE. FIXTURES TO BE SUITABLE FOR WALL MOUNTING c/w POWER ON LAMP, TEST SWITCH AND INTEGRAL FIXTURE HEADS AS INDICATED.
- 3. EMERGENCY LAMPS SHALL BE OF VOLTAGE AND WATTAGE AS INDICATED. 4. INSTALL BATTERY UNIT ON WALL AS CLOSE TO CEILING AS PRACTICAL, ON ON CEILING AS INDICATED. IN AREAS WITH HIGH CEILINGS, OR CEILINGS OPEN TO DECK, VERIFY MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5. ADJUST FIXTURES TO LIGHT STAIRS AND EXIT ROUTES FOR MAXIMUM EFFECTIVENESS.
- 6. EXIT LIGHTS SHALL BE c/w WHITE FINISH (UNLESS OTHERWISE NOTED) c/w RED LETTER PANEL, UNIVERSAL ARROW DESIGNATION, LED LAMPS AND C860 COMPLIANT. 7. UNITS SHALL BE WALL OR CEILING MOUNTED, SINGLE OR DOUBLE FACE, AS INDICATED ON THE DRAWINGS AND/OR AS REQUIRED.
- 1. VERIFY VOLTAGE, HORSEPOWER, PHASE, LOADS ETC. WITH MECHANICAL CONTRACTOR PRIOR TO ORDERING EQUIPMENT OR ROUGH—IN OF ANY
- 2. VERIFY ALL MOTOR CONNECTIONS WITH RESPECT TO VOLTAGE, PHASE, AMPERAGE, PHASE ROTATION ETC. PRIOR TO MAKING FINAL
- 3. SUPPLY AND INSTALL ALL CONDUIT, WIRING AND RELATED EQUIPMENT FOR THE FEEDERS TO MECHANICAL EQUIPMENT. PROVIDE DISCONNECT SWITCHES AS REQUIRED.

4. LOW VOLTAGE CONTROL WIRING BY MECHANICAL CONTRACTOR.

ELECTRICAL FEEDERS.

- 1. TIGHTEN ALL BOLTS, NUTS, SCREWS ETC. AND REPLACE ALL COVERS ON ELECTRICAL EQUIPMENT AND BOXES. RESTORE DAMAGED EQUIPMENT
- TO ITS ORIGINAL SHAPE. CLEAN AND PRIME ALL SCRATCHES AND BLEMISHES AND REFINISH THE EQUIPMENT TO MATCH THE ORIGINAL FINISH, ALL IN A NEAT AND WORKMANLIKE MANNER.
- 2. PROTECT EXPOSED LIVE EQUIPMENT SUCH AS PANEL MAINS AND OUTLET WIRING DURING CONSTRUCTION FOR PERSONNEL SAFETY.
- 3. SHIELD AND MARK ALL LIVE PARTS 'LIVE 208 VOLTS', OR WITH APPROPRIATE VOLTAGE 4. ARRANGE FOR INSTALLATION OF TEMPORARY DOORS FOR ALL ROOMS CONTAINING ELECTRICAL DISTRIBUTION EQUIPMENT. KEEP THESE DOORS LOCKED AT ALL TIMES EXCEPT WHEN UNDER DIRECT SUPERVISION OF ELECTRICIAN.

5. CLEAN ALL EQUIPMENT AND BLOW OUT ALL DIRT FROM CONDUITS, TRANSFORMERS, PANEL TUBS ETC.

- 1. TEST ALL WORK DONE UNDER THIS SECTION. REMEDY AND MAKE GOOD ANY DEFECTS DISCLOSED BY SUCH TESTS AND TEST THE WORK
- 2. TEST IN ACCORDANCE WITH APPROVED PROCEDURES. 3. TEST EACH POWER AND CONTROL CONDUCTOR FOR CONTINUITY AND GROUNDS. IMMEDIATELY FOLLOWING THIS TEST, CONNECT CONDUCTOR TO

4. INSPECT ALL CONNECTIONS, PROTECTIVE AND SAFETY DEVICES PRIOR TO ENERGIZING ANT EQUIPMENT AND MAKE NECESSARY ADJUSTMENTS TO ASSURE PROPER OPERATION OF THE EQUIPMENT.

SYMBOL

♥ SMOKE DETECTOR

1. THE DRAWINGS SHOW THE ARRANGEMENT, GENERAL DESIGN, AND EXTENT OF THE FIRE ALARM SYSTEM. PERFORM THE ENTIRE INSTALLATION IN

ACCORDANCE WITH THE LATEST EDITION OF ALL APPLICABLE CODES, RULES AND REGULATIONS WHETHER THEY BE LOCAL, PROVINCIAL OR FEDERAL

3. PROVIDE TEMPORARY GENERAL POWER SUPPLIES WITH GFI PROTECTED RECEPTACLES FOR ALL TRADES AS DIRECTED BY THE GENERAL CONTRACTOR.

- 2. OBTAIN AND PAY FOR A FIRE ALARM VERIFICATION BY A CERTIFIED TECHNICIAN AND PROVIDE A WRITTEN COPY OF THE VERIFICATION/INSPECTION REPORT TO THE ARCHITECT AND THE ENGINEER.
- TEMPORARY SERVICES 1. IN ALL CASES, THE TEMPORARY ELECTRICAL SERVICES, AS REQUIRED, SHALL BE PART OF THIS WORK. 2. PROVIDE TEMPORARY GENERAL LIGHTING THROUGHOUT CONSTRUCTION, USING APPROVED PRODUCTS.

4. MAINTAIN THE TEMPORARY SERVICES IN GOOD REPAIR THROUGHOUT THE DURATION OF THE PROJECT.

5. UPON COMPLETION, REMOVE ALL EQUIPMENT ASSOCIATED WITH THE ABOVE TEMPORARY SERVICES.

LEGEND

DESCRIPTION

\$ \$ ₃ \$ ₄	120V, SINGLE POLE, THREE WAY, FOUR WAY SWITCH
=	120V, 15A DUPLEX RECEPTACLE
-	120V, 15A, ISOLATED GROUND, DUPLEX RECEPTACLE
■	120V, 15A GROUND FAULT INTERRUPTING RECEPTACLE
-0	120V, 20A T-SLOT DUPLEX RECEPTACLE
-	120V, 20A GFI T-SLOT DUPLEX RECEPTACLE
=	SPECIAL PURPOSE RECEPTACLE AS INDICATED
Ф	THERMOSTAT
riangle	COMMUNICATION OUTLET - 3/4" CONDUIT TO ACCESS. CEILING SPACE
♥	ELECTRICAL CONNECTION
	DISCONNECT SWITCH
9 5	SINGLE PHASE, THREE PHASE MOTOR CONNECTION
¤	INCANDESCENT, H.I.D., OR COMPACT FLOURESCENT FIXTURE
-	WALL MOUNTED FIXTURE
	FLUORESCENT FIXTURE
\vdash	FLUORESCENT STRIP FIXTURE
	BATTERY BACKUP EMERGENCY LIGHT
EX	COMBINATION EXIT/EMERGENCY LIGHT
44 ▽	SINGLE/DOUBLE REMOTE EMERGENCY LIGHT
AHU	AIR HANDLING UNIT
AFF	ABOVE FINISHED FLOOR
WP	WEATHER PROOF
EF	EXHAUST FAN
0/0	OVER COUNTER
NL	NIGHT LIGHT
HWT	HOT WATER TANK
	FIRE ALARM PULL STATION
Z O	FIRE ALARM HORN
8	HEAT DETECTOR (FIXED TEMPERATURE)
	HEAT DETECTOR (RATE OF RISE)

P.B.S. ENGINEERING INC.

WINDSOR, ONTARIO N8₩ 5J1 phone: (519) 945-1000 fax: (519) 974-7438

e-mail: rshaw@poirierelectric.com

QUALIFIED DESIGNERS AS SET OUT IN THE ONTARIO BUILDING CODE

P.B.S. ENGINEERING INC. BCIN: 28848

YVES POIRIER, P.ENG. BCIN: 26607

general notes:

- . THIS PRINT IS AN INSTRUMENT OF SERVICE ONLY AND IS THE PROPERTY OF THE ENGINEER. DRAWINGS SHALL NOT BE SCALED. 3. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THI DIMENSIONS AND CONDITIONS SHOWN BY THESE
- ATTENTION IS DIRECTED TO PROVISIONS IN THE GENERAL CONDITIONS REGARDING CONTRACTOR'S RESPONSIBILITIES IN REGARD TO SUBMISSION OF SHOP DRAWINGS,
- 5. IN THE EVENT THE ENGINEER IS RETAINED TO REVIEW SHOP DRAWINGS, SUCH REVIEW IS ONLY TO CHECK FOR CONCEPT AND WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. 5. CONTRACTORS SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING OF THE EXISTENCE OF ANY OBSERVED VARIATIONS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLI CODES OR BY-LAWS.

TENDER

ISSUED FOR:

PROJECT:

PROPOSED ADDITION TO ESSEX-WINDSOR RECYCLING CENTRE

3560 NORTH SERVICE ROAD

WINDSOR, ONTARIO

DRAWING TITLE:

ELECTRICAL SPEC

DRAWN: R.S.

R.S.

Y.P.

DESIGNED:

CHECKED:

SCALE: N.T.S.

DATE: APRIL, 2008

DRAWING NO:

- — /