



**ST. CLAIR CATHOLIC**  
**DISTRICT SCHOOL BOARD**  
*Lighting the Way ~ Rejoicing in Our Journey*

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***ADDENDUM # 002***

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**St. Clair Catholic District School Board**

**Our Lady of Fatima  
545 Baldoon Rd  
Chatham, ON**

**General Renovations and Addition for Mechanical  
Equipment  
Phase III**

**Project No. 619-CP1902**

Prepared by:

**Wilson Diaz Architects Inc.**  
280 Queens Ave, Suite 1Q  
London, Ontario  
N6B 1X3

March 12th. 2019

*This addendum forms part of the Contract Bid Documents and amends the original drawings and specifications issued for Bid on February 19<sup>th</sup>. 2019.*

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M&E ADDENDUM #1:	2 Page(s)
CIVIL AND SITE WORKS DRAWINGS	2 Page(s)

TOTAL PAGE COUNT FOR THIS ADDENDUM	15 Page(s)
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### **PART A – GENERAL**

#### Questions, comments and discussion from General Contractors:

a. Question:

Is the existing brick veneer/metal siding, spray foam insulation etc. being removed inside the new mechanical room on grid line 6.5 and being replaced new metal stud and 90mm block wall (wall type IW3.4) to U/S of new roof deck?

Answer:

Refer to ASK-001 and ASK-003 included in this addendum for details.

b. Question:

Refer to detail 5 on S101B – is a new steel beam required in order to support new 190 mm block being install above?

Answer:

Refer to Structural Addendum #1 as part of this addendum.

c. Question:

Can you please advise if we will be allowed to use “Johnsonite Azrock” VCT tile as an approved alternate?

Answer:

No.

d. Question:

Drawing A010 issued with addendum 1 indicates new islands in the parking lot and to refer to civil drawings. Civil drawings do not show any islands. Can you confirm if there are new islands and provide details?

Answer:

Refer to revised Civil Engineering Drawings issued with this addendum #002.

e. Question:

Can you please have the engineer verify that the HP water supply & return piping does not need insulation, it's not mentioned in the specifications?

Answer:

Not required – refer to specifications.

f. Question:

Can you also find out if the supply air from RTU-101 running in the corridor to the HP mixing boxes requires external insulation?

Answer:

Is considered as outside air – Should be insulated as per specifications.

### **PART B – SPECIFICATIONS**

RESERVED

### **PART C – ARCHITECTURAL DRAWINGS**

1. Replace Drawing AD200 with attached drawing AD200 revised.

### **ARCHITECTURAL SKETCHES**

1. ASK-001 Existing Masonry Demolition Finish
2. ASK-002 Additional Mechanical Room Elevations
3. ASK-003 Enlarged Mechanical Room Plan
4. Room Finish Schedule

### **PART D – STRUCTURAL DRAWINGS/SKETCHES**

1. Refer to attached Addendum No. 1 issued by Vanboxmeer and Stranges Engineering Ltd. **3 Page(s)**

### **PART E – MECHANICAL / ELECTRICAL DRAWINGS**

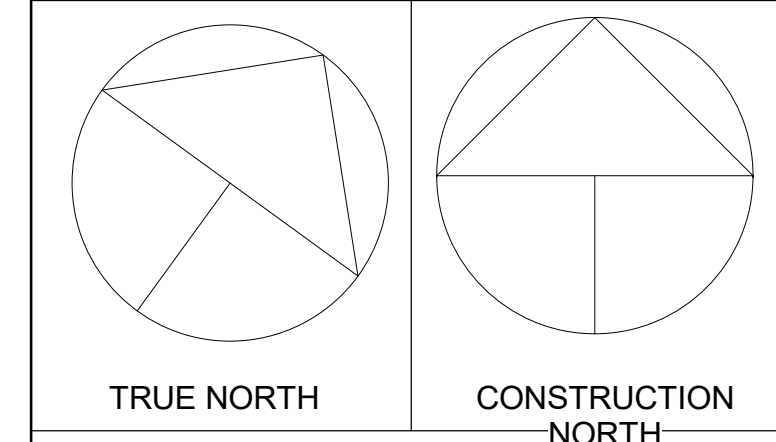
2. Refer to attached Addendum No. 2 issued by Chorley + Bisset Mechanical Specifications & Electrical Specifications **2 Page(s)**

### **PART F – CIVIL AND SITE WORK DRAWINGS**

1. Refer to attached drawings P3-SE1 and P3-SE2 that completely replace previously issued drawings. **2 Page(s)**

**END OF ADDENDUM # 002**

KEY PLAN



NOTES

LEGEND

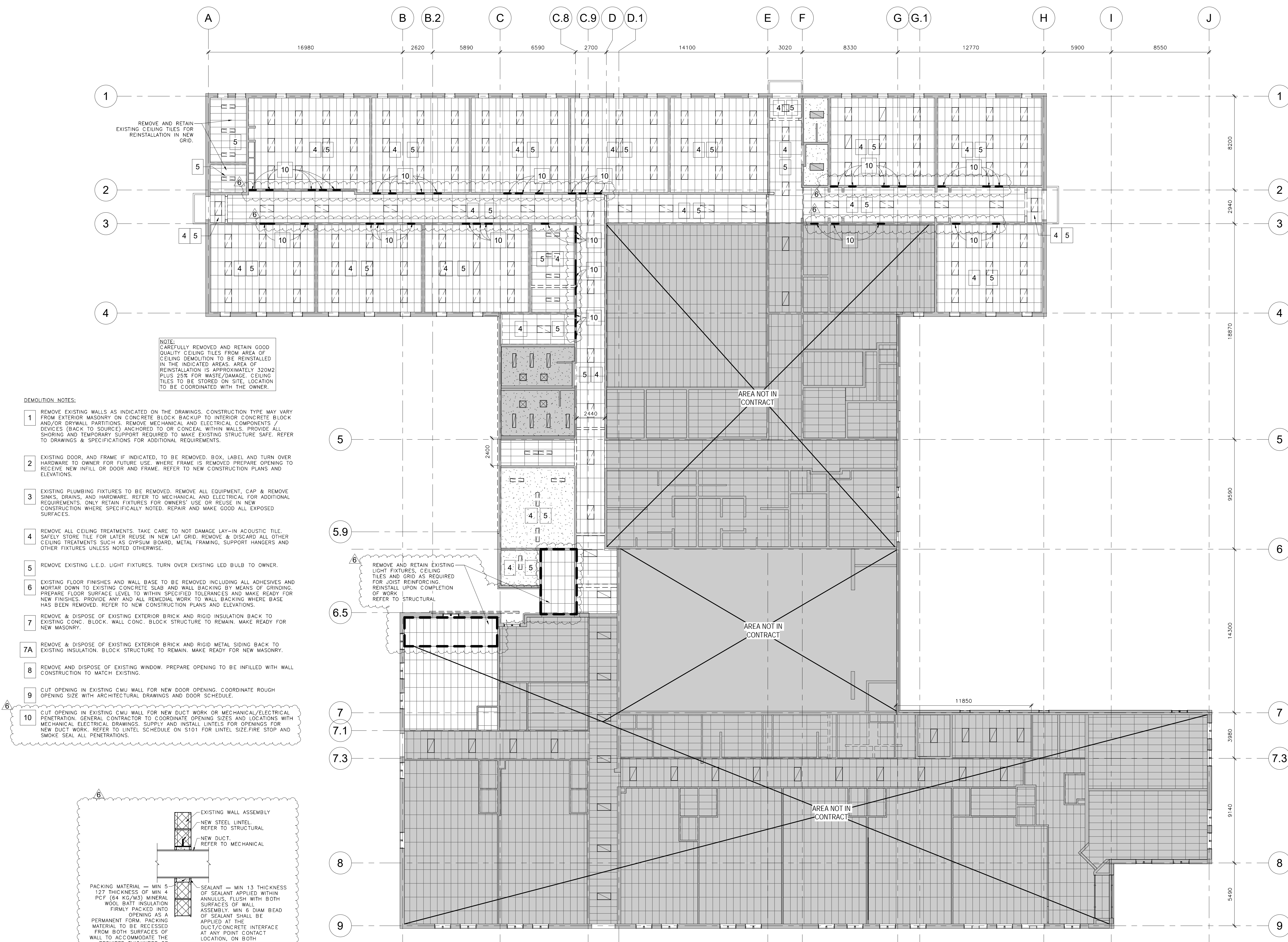
SYMBOL	DESCRIPTION
1	DEMOLITION NOTE REFERENCE NUMBER
[Hatched Box]	AREA OF WORK N.I.C.
[Dashed Box]	ACT CEILING TILE TO BE REMOVED
[Dotted Box]	PORTION OF EXISTING WALLS TO BE REMOVED
[Diagonal Lines]	EXTERIOR MASONRY & INSULATION TO BE REMOVED
[Solid Box]	EXISTING CONC. BLOCK TO REMAIN
[Hatched Box]	AREA OF CONCRETE FLOOR TO BE REMOVED FOR PLUMBING
[Door Symbol]	EXISTING DOOR & FRAME TO REMAIN
[Door Symbol]	EXISTING DOOR & FRAME TO BE REMOVED

DATE	DESCRIPTION	No.
03/12/2019	ISSUED FOR ADDENDUM 002	6
02/25/2019	ISSUED FOR PERMIT	4
02/19/2019	ISSUED FOR TENDER	3
12/11/2018	ISSUED FOR REVIEW	2
10/18/2018	ISSUED FOR REVIEW	1

PROJECT TITLE  
**OUR LADY OF FATIMA PHASE 3 RENEWAL**

DRAWING TITLE  
**REFLECTED CEIL. DEMO PLAN**

DATE 10/18/2018	DRAWN BY MFPU	DRAWING No. <b>AD200</b>
SCALE As indicated	CHECKED BY RW	
PROJECT No. 1819		

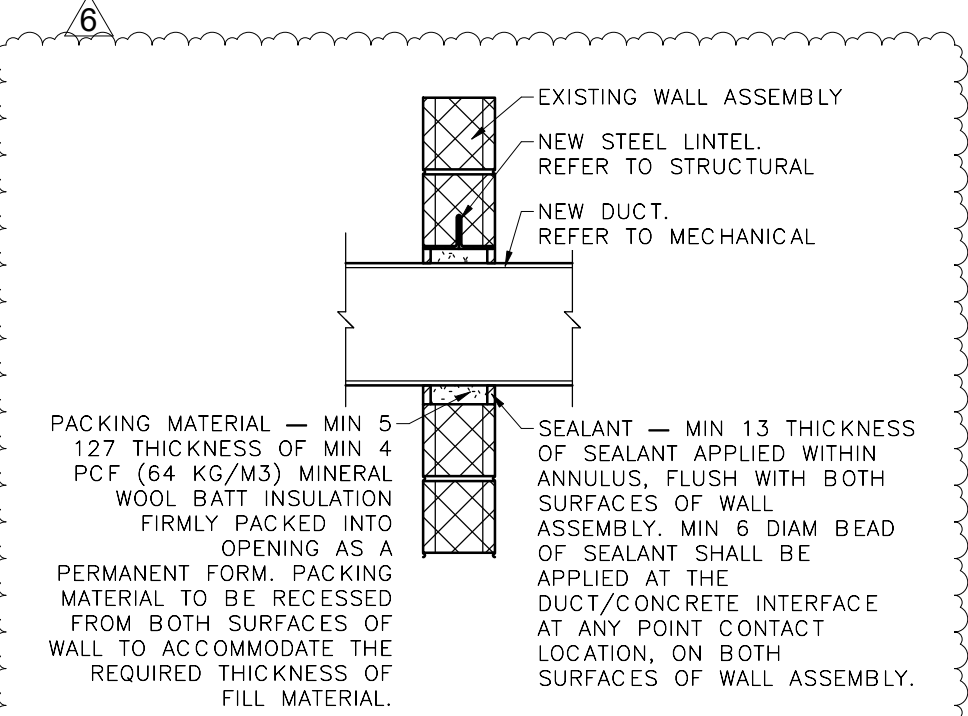


REMOVE AND RETAIN EXISTING CEILING TILES FOR REINSTALLATION IN NEW GRID.

NOTE:  
CAREFULLY REMOVED AND RETAIN GOOD QUALITY CEILING TILES FROM AREA OF CEILING DEMOLITION TO BE REINSTALLED IN THE INDICATED AREAS. AREA OF REINSTALLATION IS APPROXIMATELY 320M2 PLUS 25% FOR WASTE/DAMAGE. CEILING TILES TO BE STORED ON SITE. LOCATION TO BE COORDINATED WITH THE OWNER.

- DEMOLITION NOTES:
- REMOVE EXISTING WALLS AS INDICATED ON THE DRAWINGS. CONSTRUCTION TYPE MAY VARY FROM EXTERIOR MASONRY ON CONCRETE BLOCK BACKUP TO INTERIOR CONCRETE BLOCK AND/OR DRYWALL PARTITIONS. REMOVE MECHANICAL AND ELECTRICAL COMPONENTS / DEVICES (BACK TO SOURCE) ANCHORED TO OR CONCEAL WITHIN WALLS. PROVIDE ALL SHORING AND TEMPORARY SUPPORT REQUIRED TO MAKE EXISTING STRUCTURE SAFE. REFER TO DRAWINGS & SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - EXISTING DOOR, AND FRAME IF INDICATED, TO BE REMOVED. BOX, LABEL AND TURN OVER HARDWARE TO OWNER FOR FUTURE USE. WHERE FRAME IS REMOVED PREPARE OPENING TO RECEIVE NEW INFILL OR DOOR AND FRAME. REFER TO NEW CONSTRUCTION PLANS AND ELEVATIONS.
  - EXISTING PLUMBING FIXTURES TO BE REMOVED. REMOVE ALL EQUIPMENT, CAP & REMOVE SINKS, DRAINS, AND HARDWARE. REFER TO MECHANICAL AND ELECTRICAL FOR ADDITIONAL REQUIREMENTS. ONLY RETAIN FIXTURES FOR OWNERS' USE OR REUSE IN NEW CONSTRUCTION WHERE SPECIFICALLY NOTED. REPAIR AND MAKE GOOD ALL EXPOSED SURFACES.
  - REMOVE ALL CEILING TREATMENTS. TAKE CARE TO NOT DAMAGE LAY-IN ACOUSTIC TILE. SAFELY STORE TILE FOR LATER REUSE IN NEW LAY GRID. REMOVE & DISCARD ALL OTHER CEILING TREATMENTS SUCH AS GYPSUM BOARD, METAL FRAMING, SUPPORT HANGERS AND OTHER FIXTURES UNLESS NOTED OTHERWISE.
  - REMOVE EXISTING L.E.D. LIGHT FIXTURES. TURN OVER EXISTING LED BULB TO OWNER.
  - EXISTING FLOOR FINISHES AND WALL BASE TO BE REMOVED INCLUDING ALL ADHESIVES AND MORTAR DOWN TO EXISTING CONCRETE SLAB AND WALL BACKING BY MEANS OF GRINDING. PREPARE FLOOR SURFACE LEVEL TO WITHIN SPECIFIED TOLERANCES AND MAKE READY FOR NEW FINISHES. PROVIDE ANY AND ALL REMEDIAL WORK TO WALL BACKING WHERE BASE HAS BEEN REMOVED. REFER TO NEW CONSTRUCTION PLANS AND ELEVATIONS.
  - REMOVE & DISPOSE OF EXISTING EXTERIOR BRICK AND RIGID INSULATION BACK TO EXISTING CONC. BLOCK. WALL CONC. BLOCK STRUCTURE TO REMAIN. MAKE READY FOR NEW MASONRY.
  - REMOVE & DISPOSE OF EXISTING EXTERIOR BRICK AND RIGID METAL SIDING BACK TO EXISTING INSULATION. BLOCK STRUCTURE TO REMAIN. MAKE READY FOR NEW MASONRY.
  - REMOVE AND DISPOSE OF EXISTING WINDOW. PREPARE OPENING TO BE INFILLED WITH WALL CONSTRUCTION TO MATCH EXISTING.
  - CUT OPENING IN EXISTING CMU WALL FOR NEW DOOR OPENING. COORDINATE ROUGH OPENING SIZE WITH ARCHITECTURAL DRAWINGS AND DOOR SCHEDULE.
  - CUT OPENING IN EXISTING CMU WALL FOR NEW DUCT WORK OR MECHANICAL/ELECTRICAL PENETRATION. GENERAL CONTRACTOR TO COORDINATE OPENING SIZES AND LOCATIONS WITH MECHANICAL ELECTRICAL DRAWINGS. SUPPLY AND INSTALL LINTELS FOR OPENINGS FOR NEW DUCT WORK. REFER TO LINTEL SCHEDULE ON S101 FOR LINTEL SIZE, FIRE STOP AND SMOKE SEAL ALL PENETRATIONS.

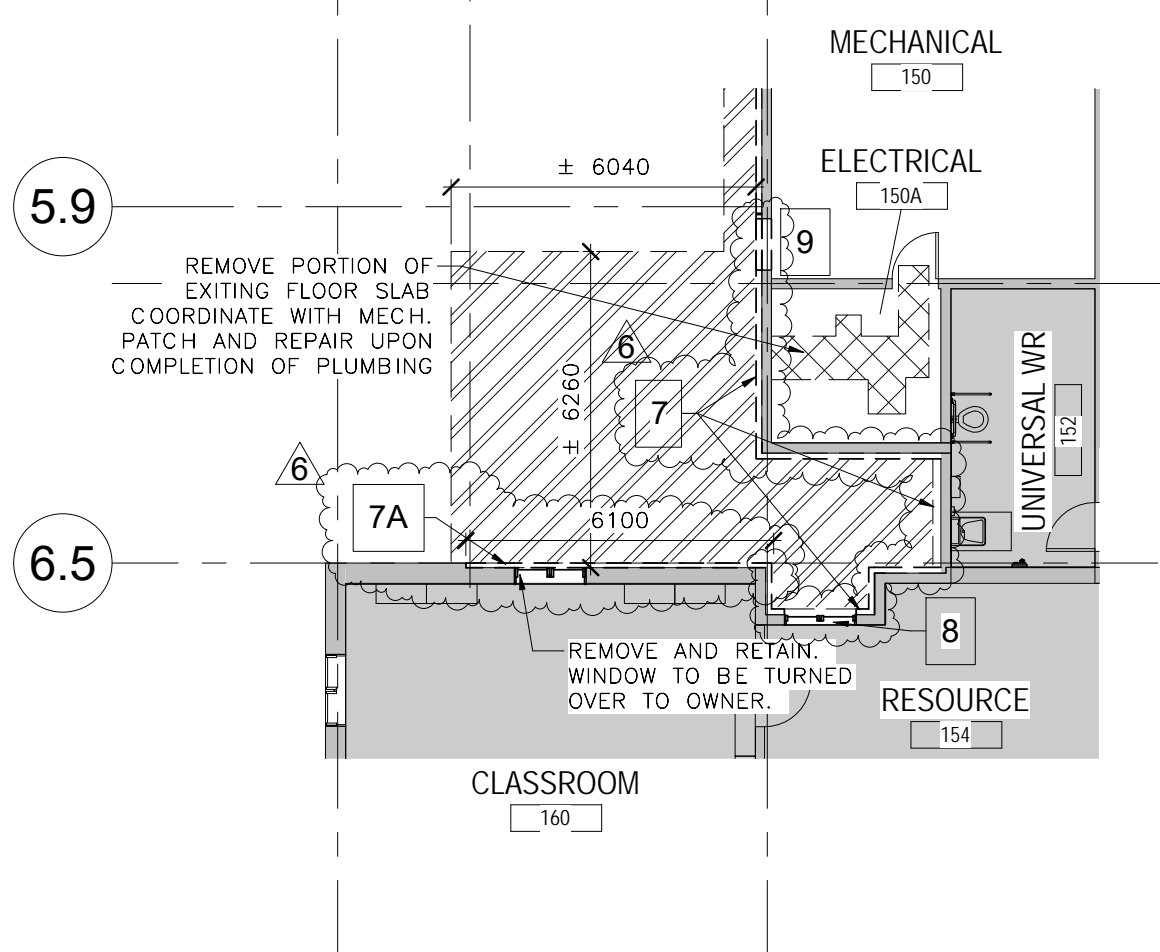
REMOVE AND RETAIN EXISTING LIGHT FIXTURES, CEILING TILES AND GRID AS REQUIRED FOR JOIST REINFORCING. REINSTALL UPON COMPLETION OF WORK. REFER TO STRUCTURAL



2 FIRE STOPPING DETAIL  
1:20

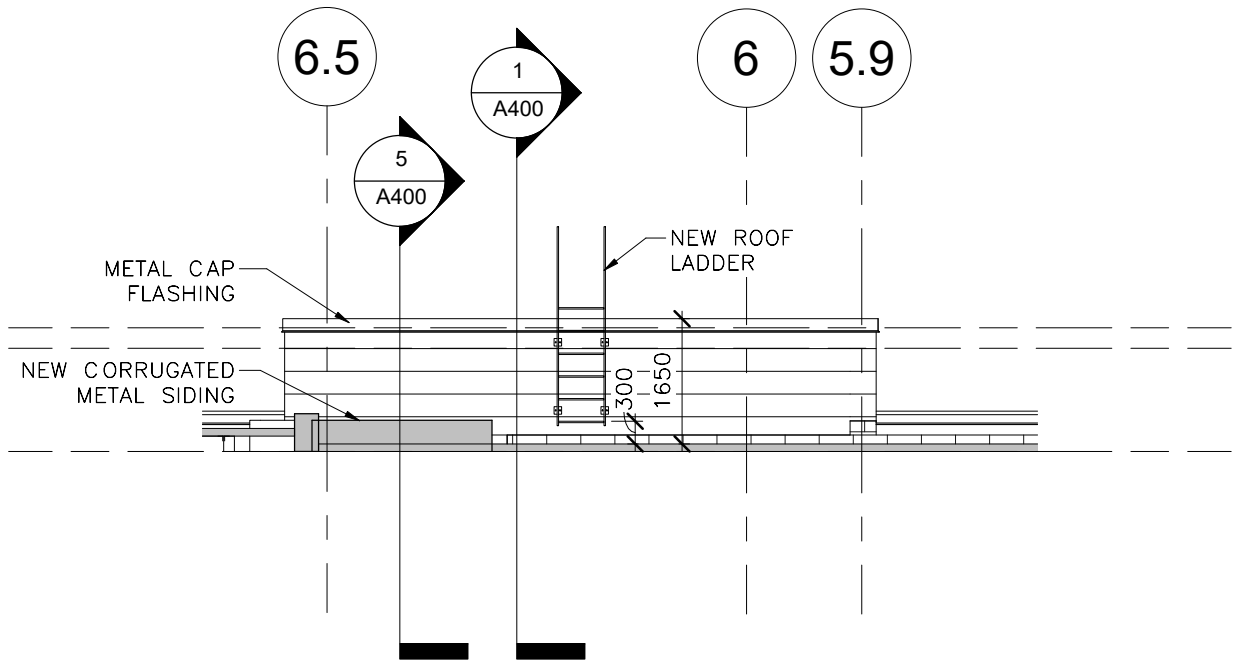
1 REFLECTED CEIL. DEMO PLAN PH 3  
1:150

6  
**7A** REMOVE & DISPOSE OF EXISTING EXTERIOR BRICK AND RIGID METAL SIDING BACK TO EXISTING INSULATION. BLOCK STRUCTURE TO REMAIN. MAKE READY FOR NEW MASONRY.



1 **PART DEMOLITION PLAN PH 3**  
 ASK-001 1 : 150

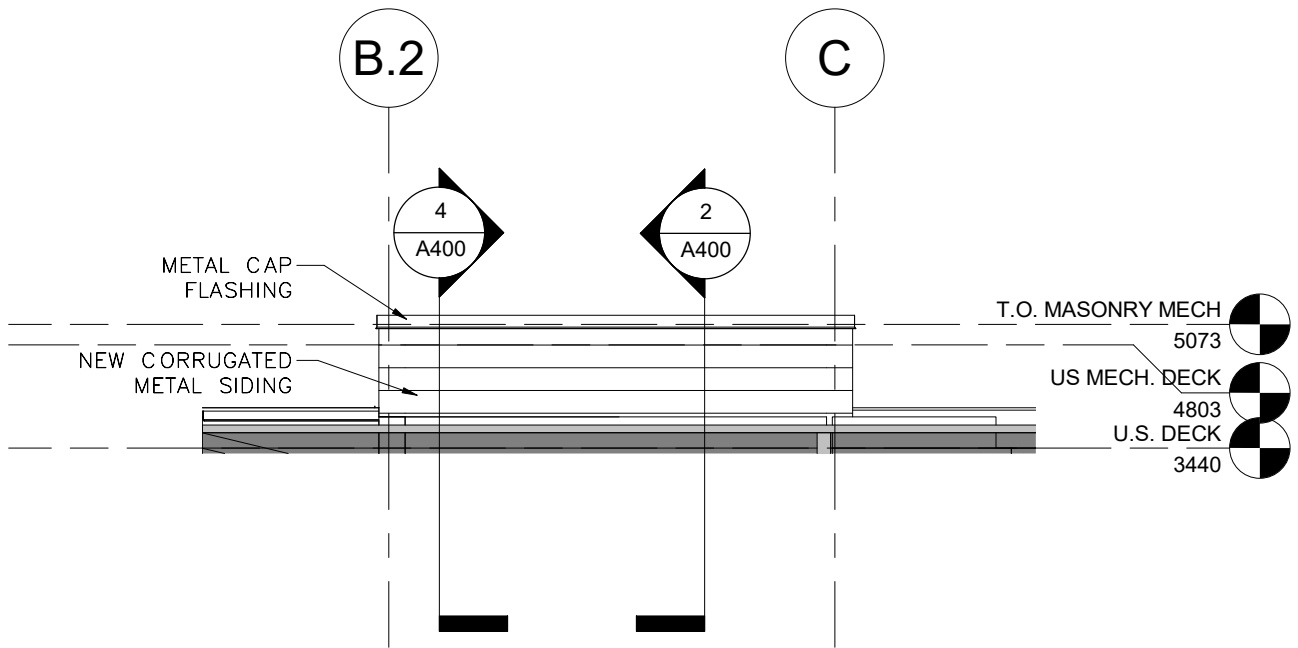
<small>WILSON DIAZ ARCHITECTS INCORPORATED</small>  <small>280 QUEENS AVENUE, SUITE 110        LONDON, ONTARIO M5E 1B2        T: 519.439.0111        F: 519.439.3942        WWW.WILSONDIAZ.CO</small>	<b>PROJECT TITLE</b>		<b>DRAWING TITLE</b>	
	OUR LADY OF FATIMA PHASE 3 RENEWAL		EXISTING MASONRY FINISH DEMOLITION	
	<b>SCALE</b> 1 : 150	<b>DRAWN BY</b> MFPU	<b>CHECKED BY</b> RRW	<b>Reference Page No.</b>
<b>DATE</b> 03/12/2018	<b>PROJECT No.</b>	1819	<b>DRAWING No.</b>	ASK-001



1  
ASK-002

### MECHANICAL ROOM - EAST ELEVATION - SKETCH

1 : 100



2  
ASK-002

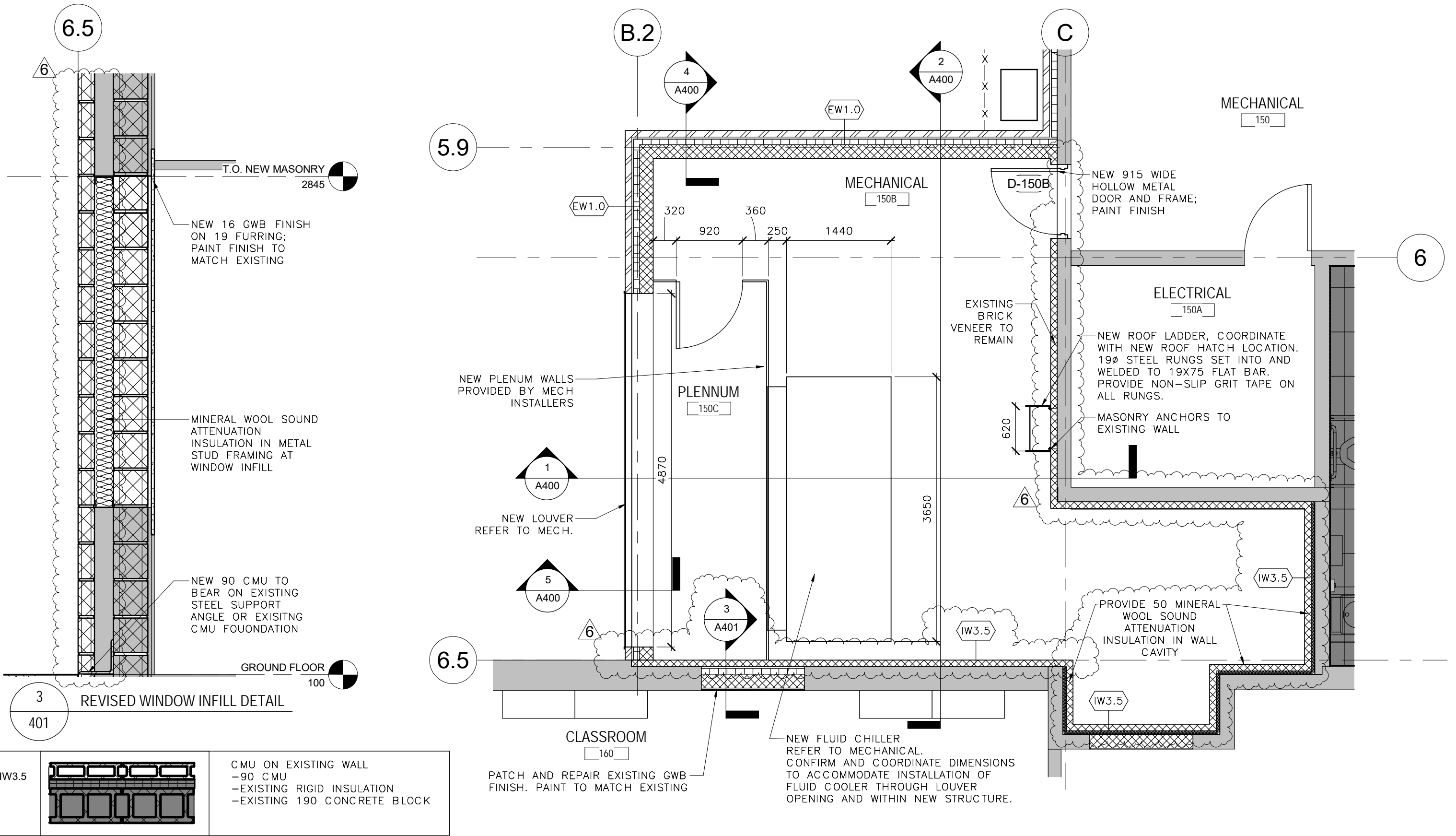
### MECHANICAL ROOM - SOUTH ELEVATION - SKETCH

1 : 100



PROJECT TITLE OUR LADY OF FATIMA PHASE 3 RENEWAL			DRAWING TITLE ADDITIONAL MECHANICAL ROOM ELEVATIONS	
SCALE 1 : 100	DRAWN BY MFPU	CHECKED BY RRW	Reference Page No.	A300
DATE 03/12/2018	PROJECT No.	1819	DRAWING No.	ASK-002

Z:\SCGDSB\1819 - Phase 3 - Minor\5. Bid and Contract Award\5.4 Bid Documents and Addenda\5.4.3 Drawings\Our Lady of Fatima PH3.rvt



IW3.5		CMU ON EXISTING WALL -90 CMU -EXISTING RIGID INSULATION -EXISTING 190 CONCRETE BLOCK
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WILSON DIAZ ARCHITECTS INCORPORATED

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NOTES

03/01/2019	ADDENDUM 002	6
DATE MM/DD/YYYY	DESCRIPTION	No.

PROJECT TITLE OUR LADY OF FATIMA PHASE 3 RENEWAL		
SCALE As indicated	DRAWN BY MFPU	CHECKED BY RRW
DATE 03/12/2018	PROJECT No. 1819	

DRAWING TITLE ENLARGED MECHANICAL ROOM PLAN	
ASK-003	

**Our Lady of Fatima - Phase 3**

St. Clair Catholic District School Board

Wilson Diaz Architects Incorporated

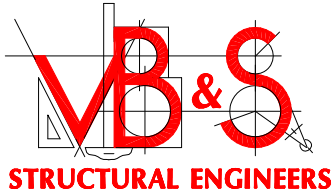
CHANGES ARE HIGHLIGHTED, BOLD & ITALICIZED

**Abbreviations**

<b>ACT</b> Acoustic Ceiling Tile	<b>EP.PT.</b> Epoxy Paint	<b>GLZ</b> Glazing	<b>OPEN</b> Open to adjacent room	<b>SRTC</b> Service Room Traffic Coating
<b>Anod</b> Anodized Aluminum Frames	<b>EPF</b> Epoxy Flooring	<b>GSW</b> Glass System Wall	<b>PCT</b> Porcelain Tile	<b>STO</b> Stone
<b>CF</b> Clear Finish Strain	<b>EPW</b> Epoxy Wall Coating	<b>GYP.</b> Gypsum Board	<b>PT</b> Paint	<b>TER</b> Terrazzo
<b>CMU</b> Concrete Masonry Unit	<b>EX</b> Existing	<b>HW</b> Hardwood	<b>RES</b> Resilient Sht. Flooring/Base	<b>QT</b> Quartz Tile
<b>CONC</b> Architectural Concrete	<b>EXP</b> Exposed Structure	<b>IP</b> Intumescent Paint	<b>RUB</b> Rubber Flooring/Base	<b>WB</b> Wood base finish to match floor
<b>CPT</b> Carpet Tile	<b>GB</b> Gypsum Board	<b>LIN</b> Linoleum	<b>SB</b> Stone Base	<b>WC</b> Wallcovering (# indicates wallcovering type)
<b>CT</b> Ceramic Tile	<b>GLB &amp; S</b> Glass Block & Stained Glass	<b>N/A</b> Not Applicable	<b>SEAL</b> Concrete Sealer	<b>WD</b> Woodwork

Room No.	Room Name	Floor			North		East		South		West		Ceiling		Remarks	
		Material	Finish	Base	Mat'l	Finish	Mat'l	Finish	Mat'l	Finish	Mat'l	Finish	Mat'l	Finish		Height
109	Library	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid in North bulkhead.
112	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
114	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
CR4	Corridor	-	-	-	EX CMU	PT	EX CMU	PT	EX CMU	PT	EX & New CMU	PT	New Grid Ex ACT	-	Match EX	Ex act in new grid. Patch and repair existing CMU walls where existing vestibules were demolished. Provide paint finish to match at areas of patching and CMU infill.
116	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
122	Classroom	-	-	-	-	-	EX & New CMU	PT	-	-	-	-	ACT	-	-	New act ceiling and grid. Provide paint finish at CMU infilled door opening
124	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
126	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
128	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
130	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
134	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
136	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
138	Classroom	-	-	-	-	-	-	-	-	-	-	-	New ACT	-	Match EX	New act ceiling and grid
142	Resource	EX Conc	QT	RB	EX CMU	PT	EX & New CMU	PT	EX CMU	PT	EX & New CMU	PT	New ACT	-	Match EX	New act ceiling and grid. Provide paint finish on all walls. New floor finish and Rubber base.
CR5	Corridor	-	-	-	EX & New CMU	PT	-	-	EX & New CMU	PT	-	-	New Grid Ex ACT	-	Match EX	Ex act in new grid. Patch and repair existing CMU walls where existing vestibules were demolished. Provide paint finish to match at areas of patching.
144	Custodian	-	EX	RB	EX CMU	PT	EX & New CMU	PT	EX CMU	PT	New GYP	PT	New ACT	-	Match EX	New act ceiling and grid. Provide paint finish on all walls. Rubber base on new gyp walls.
144A	Storage	-	EX	RB	EX CMU	PT	New GYP	PT	EX CMU	PT	EX & New CMU	PT	New ACT	-	Match EX	New act ceiling and grid. Provide paint finish on all walls. Rubber base on new gyp walls.
CR7	Corridor	-	-	-	EX CMU	PT	-	-	EX CMU	PT	EX & New CMU	PT	New Grid Ex ACT	-	Match EX	Ex act in new grid. Patch and repair existing CMU walls where existing walls were demolished. Provide paint finish to match at areas of patching and infill.
150	Mechanical	-	-	-	-	-	-	-	-	-	EX & New CMU	PT	Exposed	-	-	Paint infilled cmu wall to match
150A	Electrical	EX & New CONC	-	-	-	-	-	-	-	-	-	-	Exposed	-	-	Patch and repair existing floor slab.
150B	Mechanical	New CONC	-	-	New CMU	PT	New CMU	PT	New CMU	PT	New CMU	PT	Exposed	-	-	
152	Universal WR	-	-	-	-	-	-	-	-	-	-	-	Ex ACT	-	Match EX	Remove and reinstall ex act ceiling to accommodate structural work
154	Resource	-	-	-	EX & New GYP	PT	-	-	-	-	-	-	Ex ACT	-	Match EX	Paint infilled gypsum board wall to match. Remove and reinstall ex act ceiling to accommodate structural work
160	Classroom	-	-	-	EX & New GYP	PT	-	-	-	-	-	-	Ex ACT	-	Match EX	Paint infilled gypsum board wall to match. Remove and reinstall ex act ceiling to accommodate structural work





## **VanBoxmeer & Stranges Engineering Ltd.**

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March 12, 2019  
VB&S Project **18134**

### **Structural Addendum No. 01**

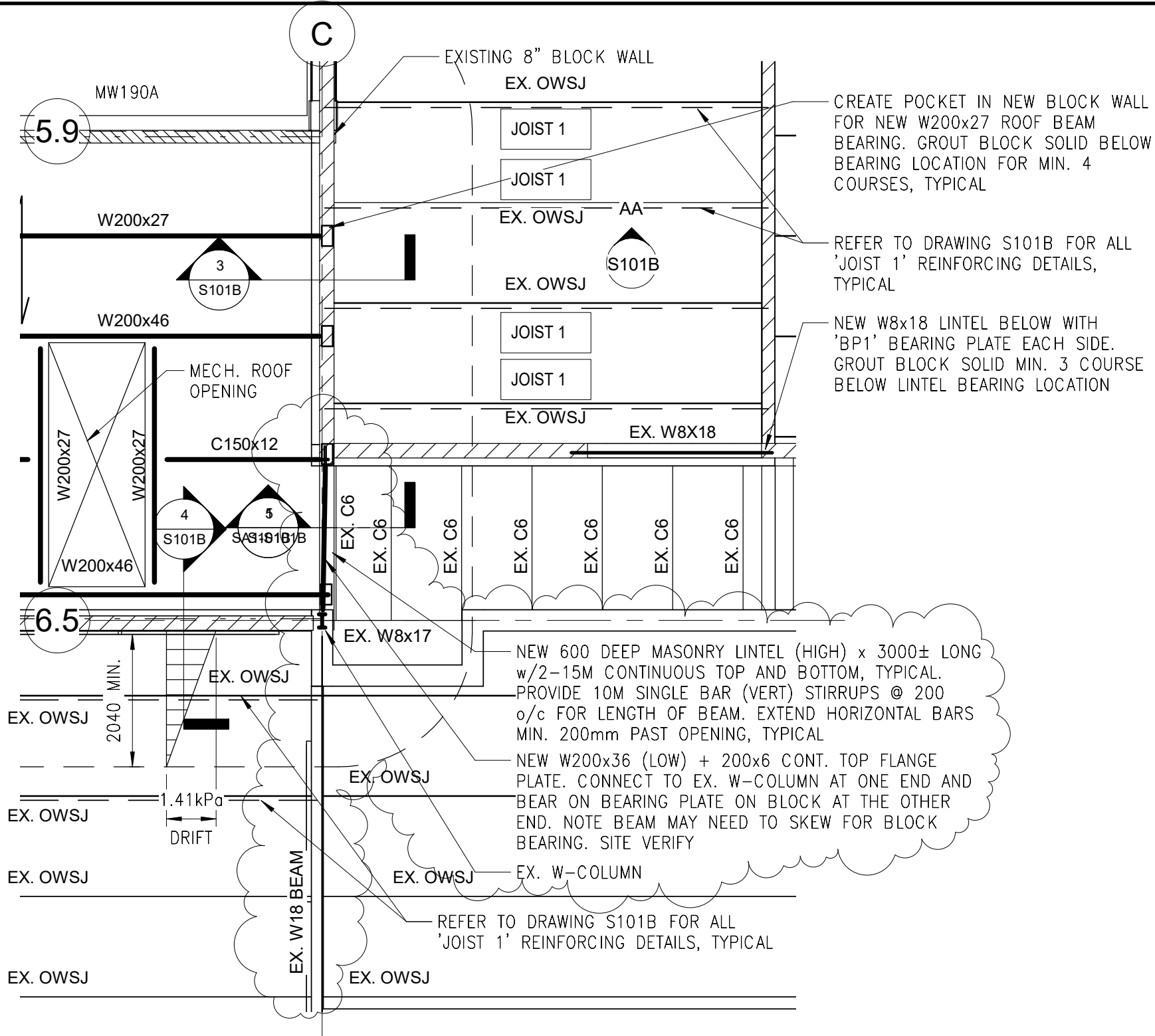
#### **Our Lady of Fatima – Phase 3 Renewal Chatham, ON**

The following items shall apply to and govern the tender documents.

1. Refer to Drawing S101 – New Addition Roof Framing Plan
  - a) Revise framing plan as clouded in attached sketch SA1-S101.
  
2. Refer to Drawing S101B – Sections
  - a) Revise Section 5 as clouded in attached sketch SA1-S101B.

#### **END OF STRUCTURAL ADDENDUM No.01**

Encl: Drawings: **None**  
Sketches: **SA1-S101, SA1-S101B**



CREATE POCKET IN NEW BLOCK WALL FOR NEW W200x27 ROOF BEAM BEARING. GROUT BLOCK SOLID BELOW BEARING LOCATION FOR MIN. 4 COURSES, TYPICAL

REFER TO DRAWING S101B FOR ALL 'JOIST 1' REINFORCING DETAILS, TYPICAL

NEW W8x18 LINTEL BELOW WITH 'BP1' BEARING PLATE EACH SIDE. GROUT BLOCK SOLID MIN. 3 COURSE BELOW LINTEL BEARING LOCATION

NEW 600 DEEP MASONRY LINTEL (HIGH) x 3000± LONG w/2-15M CONTINUOUS TOP AND BOTTOM, TYPICAL. PROVIDE 10M SINGLE BAR (VERT) STIRRUPS @ 200 o/c FOR LENGTH OF BEAM. EXTEND HORIZONTAL BARS MIN. 200mm PAST OPENING, TYPICAL

NEW W200x36 (LOW) + 200x6 CONT. TOP FLANGE PLATE. CONNECT TO EX. W-COLUMN AT ONE END AND BEAR ON BEARING PLATE ON BLOCK AT THE OTHER END. NOTE BEAM MAY NEED TO SKEW FOR BLOCK BEARING. SITE VERIFY

REFER TO DRAWING S101B FOR ALL 'JOIST 1' REINFORCING DETAILS, TYPICAL

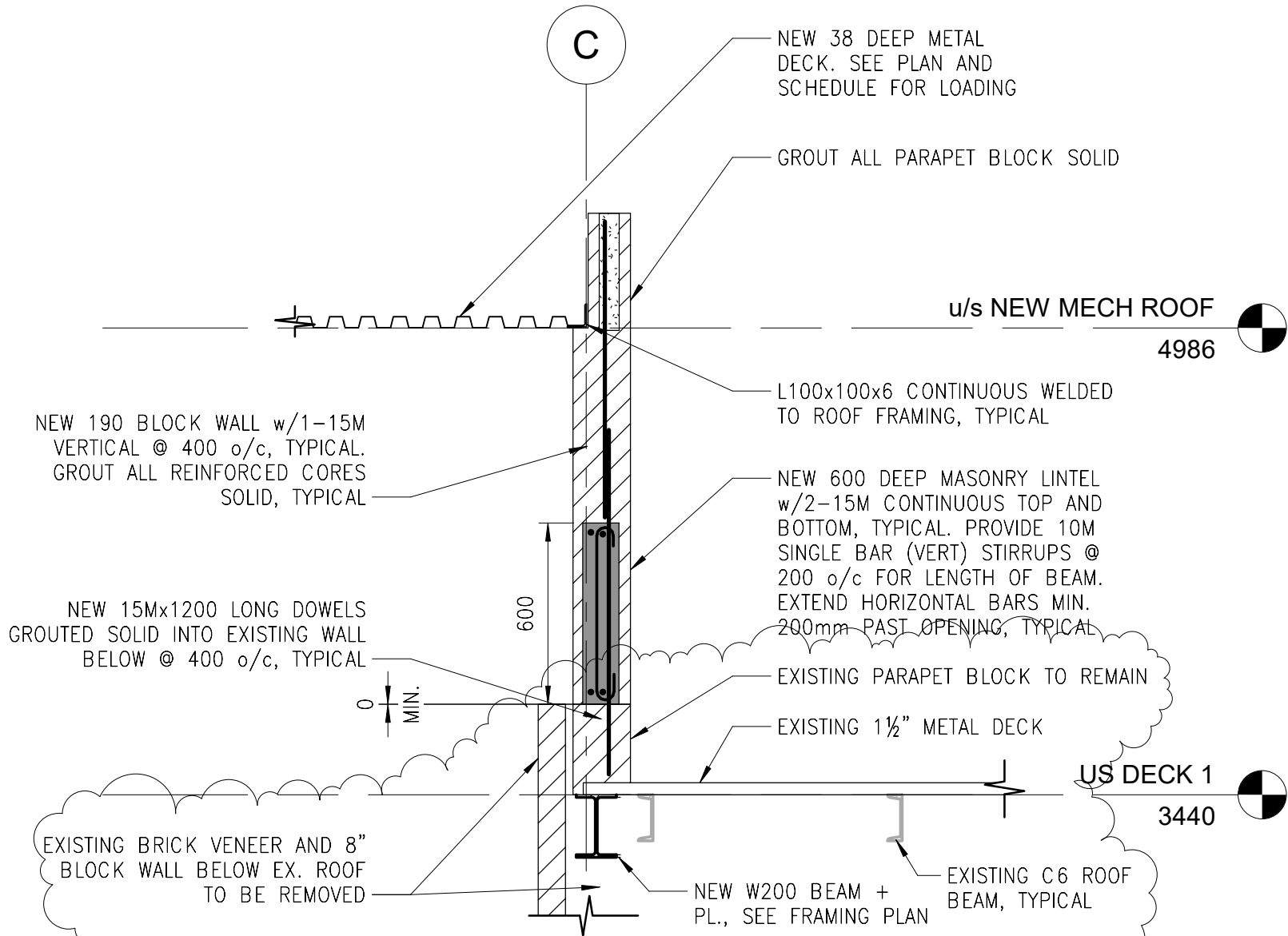
PROJECT #:	18134
DATE:	03/12/19
DRAWING #:	<b>SA1-S101</b>

DRAWN BY:	PR
CHECKED BY:	GVB
SCALE:	1 : 75
REF:	S101

**REVISED ADDITION ROOF FRAMING PLAN**

PROJECT: **OUR LADY OF FATIMA PHASE 3 RENEWAL**

**STRUCTURAL ENGINEERS**  
**VanBoxmeer & Stranges Ltd.**  
 458 Queens Ave. London, ON, Canada N6B 1X9  
 Tel: (519) 433-4661 Fax: (519) 433-6420  
 E-mail: vbands@vbands.com



NEW 190 BLOCK WALL w/1-15M VERTICAL @ 400 o/c, TYPICAL. GROUT ALL REINFORCED CORES SOLID, TYPICAL

NEW 15x1200 LONG DOWELS GROUTED SOLID INTO EXISTING WALL BELOW @ 400 o/c, TYPICAL

NEW 38 DEEP METAL DECK. SEE PLAN AND SCHEDULE FOR LOADING

GROUT ALL PARAPET BLOCK SOLID

L100x100x6 CONTINUOUS WELDED TO ROOF FRAMING, TYPICAL

NEW 600 DEEP MASONRY LINTEL w/2-15M CONTINUOUS TOP AND BOTTOM, TYPICAL. PROVIDE 10M SINGLE BAR (VERT) STIRRUPS @ 200 o/c FOR LENGTH OF BEAM. EXTEND HORIZONTAL BARS MIN. 200mm PAST OPENING, TYPICAL

EXISTING PARAPET BLOCK TO REMAIN

EXISTING 1 1/2" METAL DECK

u/s NEW MECH ROOF  
4986



US DECK 1  
3440



NEW W200 BEAM TO BE INSTALLED BEFORE NEW BLOCK IS CONSTRUCTED ABOVE. CONTRACTOR TO SHORE EXISTING ROOF DECK & PARAPET AS REQUIRED TO INSTALL W200

PROJECT #:	18134
DATE:	03/12/19
DRAWING #:	<b>SA1-S101B</b>

DRAWN BY:	PR	CHECKED BY:	GVB
SCALE:	1 : 20	REF:	S101B

DRAWING	<b>REVISED SECTION 5</b>	
	OUR LADY OF FATIMA PHASE 3 RENEWAL	

**VB&S**  
**STRUCTURAL ENGINEERS**  
**VanBoxmeer & Strangos Ltd.**  
 458, Queens Ave., London, ON, Canada N6B 1X9  
 tel: (519) 433-4661 fax: (519) 433-6420  
 E-mail: vbands@vbands.com

11 March 2019

Page 1 of 2

## **ADDENDUM NO. 2**

Make the following amendments and additions to the Drawings and Specifications, and include this cost in the Contract Price.

### **1. MECHANICAL SPECIFICATIONS**

#### **1. Section 15800 - Air Distribution**

1. Clause 2.8.2: Add "Effective HVAC" to the list of equals for high induction GRDs.

### **2. ELECTRICAL SPECIFICATIONS**

#### **1. Section 16705 - Security and Access Control**

1. Add the following clauses.

##### **3.2.6.4 Building Automation System Integration**

- 3.2.6.4.1 Interface security system with building automation system. Controls Contractor to provide contact closures at the security panel for each alarm point.

- 3.2.6.4.2 Provide independent alarm points for the following:

- Loop Pump
- Tower Temp
- Low Space
- Low Header
- BAS Power Failure
- Utility Phase Loss

### **3. ELECTRICAL DRAWINGS**

#### **1. Drawing E300**

1. Delete all work associated with relocating data rack. Revise Note 3 on **Ground Floor Plan - Power and System** to: "Not used." Provide ground bar in IT Room (Room 109C) beside existing data rack. Refer to grounding bonding arrangement for details.

**2. Drawing E401**

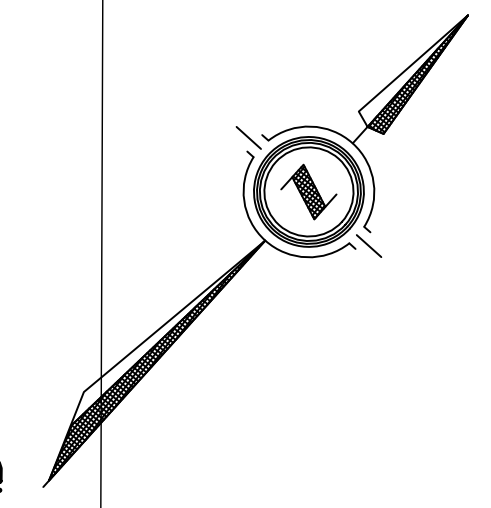
1. Existing data rack to remain in IT Room (Room 111).

**END OF ADDENDUM NO. 2**

OUR LADY OF  
FATIMA CATHOLIC  
SCHOOL  
FFF = 180.32

LOT 22  
CONCESSION 2  
24R-1064

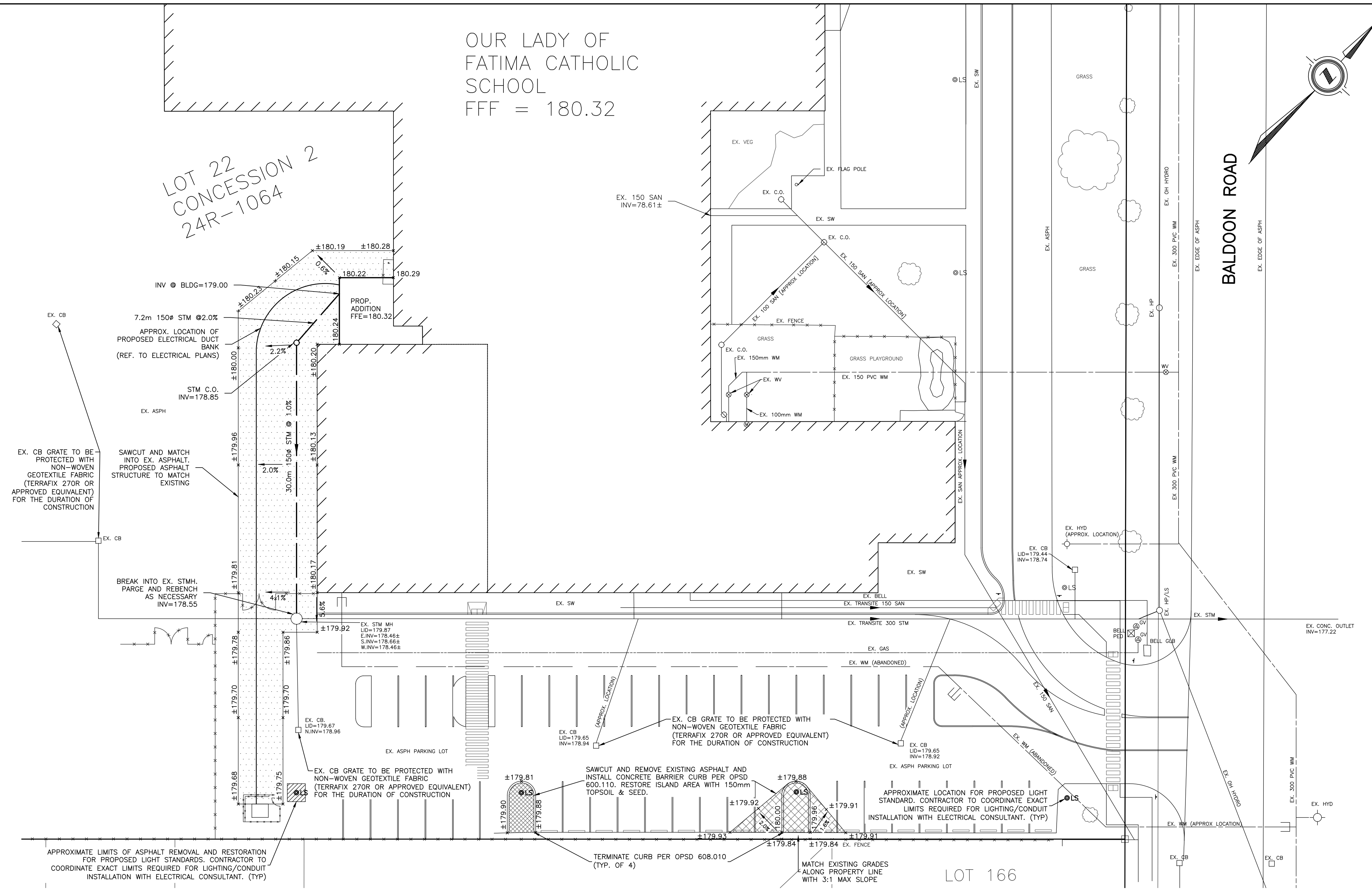
BALDOON ROAD



**LEGEND**

- EX. FH EXISTING HYDRANT
- EX. WV EXISTING VALVE
- EX. 300# WM EXISTING WATERMAIN
- EX. FENCE EXISTING FENCE
- EX. GM EXISTING GAS METER
- EX. GV EXISTING GAS VALVE
- EX. GM EXISTING GAS MAIN
- EX. BP @HP EXISTING BELL POLE
- EX. B.PED EXISTING BELL PEDESTAL
- EX. B.MH EXISTING BELL MANHOLE
- EX. B.C. EXISTING BELL CABLE
- EX. EC EXISTING ELECTRICAL CABLE
- EX. HP/LS @HP EXISTING HYDRO POLE/LIGHT STANDARD
- EX. HP @HP EXISTING HYDRO POLE
- EX. SS EXISTING SANITARY SEWER
- EX. STS EXISTING STORM SEWER
- EX. STMH EXISTING STORM MANHOLE
- EX. CB EXISTING CATCHBASIN
- C.O. EXISTING CLEANOUT
- EX. TREE EXISTING TREE
- 37.2-150 ST-1.0% PROPOSED STORM SEWER
- C.O. PROPOSED CLEANOUT
- LIMITS OF ASPHALT REMOVAL/RESTORATION
- LIMITS OF ASPHALT REMOVAL
- LS PROPOSED LIGHT STANDARD

EXISTING SITE SURFACE WORKS DISPLAYED ARE BASED ON PROPOSED CONDITION OF PREVIOUS SITE DEVELOPMENT AS CONSTRUCTED IN 2018 IN LIEU OF DETAILED TOPOGRAPHIC SURVEY. THE OWNER'S CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH THE CURRENT STATE OF THE SITE PRIOR TO CONSTRUCTION.



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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT
					DESIGN BY JSC/DH	1	ISSUED FOR TENDER/APPROVAL	FEB. 04, 2019	DEVENG
					DRAWN BY JSC	2	ISSUED FOR TENDER ADDENDUM 2	FEB. 27, 2019	DEVENG
					CHECKED BY DH	3	REISSUED FOR TENDER ADDENDUM 2	MAR. 07, 2019	DEVENG

CONSULTANT OR DIVISION

London Office  
41 Adelaide St. N., Unit 71  
(519) 672-8310

Paris Office  
31 Mechanic St., Unit 301  
(519) 442-1441

CONSULTING CIVIL ENGINEERS

SCALE

SCALE - 1:250

OUR LADY OF FATIMA CATHOLIC SCHOOL  
515 BALDOON ROAD  
CHATHAM, ONTARIO

SITE SERVICING AND GRADING PLAN

PROJECT No.  
**DEL18-011**

SHEET No.  
**P3-SE1**

PLAN FILE No.

**GENERAL CONSTRUCTION NOTES**

- All existing underground utilities, either shown or not shown, are to be located and marked prior to commencing construction within the site and on existing abutting road allowance. Any utilities damaged or disturbed during construction shall be repaired or replaced to the satisfaction of the governing body at the sole expense of the Owner's Contractor.
- The Owner's Contractor is to meet all the requirements of the owners of the utilities on this plan, and must make satisfactory arrangements with the utility companies for crossing their installations and for providing adequate protection during construction. All existing underground plant (ie. telephone duct, gas mains, sewer, watermain) that will be crossed under during the installation of services for this development shall be supported by a support beam or by other methods as may be required by the Owners of the plant being crossed under. All temporary support measures required during the construction phase shall be the responsibility of the Owner's Contractor and independent engineering review/certifications shall be undertaken where necessary at no extra cost to the contractor.
- All existing boulevards and road surfaces disturbed during construction shall be restored to a condition at least as good as original (pre-construction condition), all to the satisfaction of the Municipal Engineer.
- Prior to commencing ANY construction, the Owner's Contractor must verify all outlet information, benchmarks, elevations and dimensions and report any discrepancies immediately to the Engineer.
- Prior to commencing any work on the installation of services, an approved set of plans must be available on the job site and shall remain there until work is completed.
- The Owner's Contractor is responsible for the control of surface and subsurface water.
- The Developer's Consulting Engineer shall provide full-time inspection and a Certificate of Compliance upon completion for all works to be constructed on existing Municipal streets.
- The Developer shall have its Professional Engineer provide adequate inspection during construction on the site and a Certificate of Completion of works upon completion of all works which are to be assumed by the owner.
- The Owner's Contractor shall take all necessary precautions to prevent the spilling or dumping of hazardous materials while fueling and maintaining vehicles and equipment.
- If in the opinion of the Engineer a zone is contaminated through neglect and/or deliberate mishandling of toxic materials by the Owner's Contractor, the Owner's Contractor shall at no expense to the Owner excavate and dispose of all contaminated materials to an approved disposal site and provide soil remediation.
- At least 48 hours prior to commencing construction on any existing road allowance maintained by the Municipality of Chatham/Kent, the Owner's Contractor is to obtain the appropriate work approval permit from the Municipality of Chatham/Kent Engineering Department.
- The Owner's Contractor is responsible for notifying the Municipality of Chatham/Kent for all building inspection requirements and keep them informed as to their schedule.
- Existing servicing and topographic information was obtained by Hook & Todgham Surveying Incorporated, dated January 24, 2017 and by Development Engineering (London) Limited, dated \_\_\_\_\_.
- For geotechnical recommendations respecting construction, refer to geotechnical report prepared by \_\_\_\_\_, dated \_\_\_\_\_ Report No. \_\_\_\_\_.
- For complete building information and architectural details, refer to drawings by WILSON DIAZ ARCHITECTS INC.
- For complete mechanical/electrical plan details, refer to drawings by CHORLEY AND BISSET.

**CONSTRUCTION NOTES FOR THE SERVICING CONTRACTOR**

- The Contractor shall take precautions to avoid damage to existing servicing and surfaces not designated for removal. Any damage shall be repaired and restoration completed at the expense of the Owner's Contractor.
- Prior to initiating site works, the Owner's Contractor shall obtain locates for all existing underground utilities within the area of construction. The Owner's Contractor shall be responsible for the cost of repair or replacement of any utilities damaged or disturbed during construction, and shall immediately contact the appropriate utility owner upon such occurrence.
- Where utility crossings are required, the Owner's Contractor shall undertake appropriate measures for the temporary support of such utilities in accordance with the requirements of the utility owner until such time as backfilling and compaction are complete.
- Prior to construction, an approved set of plans and specifications shall be available on the job site and shall remain on-site for the duration of construction. The Owner's Contractor shall verify with the Contract Administrator that the most current drawings are in circulation.
- The Owner's Contractor shall be responsible for protection of all survey markers and monuments during construction. Any legal survey monuments which are disturbed during construction shall be replaced at the expense of the Owner's Contractor.
- All works shall be undertaken in accordance with current Occupational Health and Safety Act requirements.
- Prior to undertaking on-site earth works, the Owner's Contractor shall install all sediment controls relevant to the area of site disturbance.
- The Owner's Contractor shall be responsible for regular monitoring and cleanup of tracked mud/debris on adjacent lands and public roads to the satisfaction of the Engineer and Municipality.
- The Owner's Contractor shall take all reasonable measures to avoid mixing topsoil with subsoil where required for reuse on-site.
- On-site surface drainage shall be maintained by the Owner's Contractor at all times. Erosion and sediment controls shall be applied where necessary to prevent uncontrolled release of sediment off-site. Where excavation dewatering is necessary, pump discharge shall be directed to stable, vegetated areas or dedicated sediment traps (OPSD 219.24) to the satisfaction of the Engineer.
- The Owner's Contractor shall maintain an operations log of erosion & sediment control structure inspections throughout the project, with particular emphasis on control measures after rainfall events of 12mm or greater. Periodic removal of accumulated sediment shall be undertaken as necessary or at the expressed direction of the Engineer. All collected sediment shall be disposed of at an approved location at no extra cost to the contractor.
- Unless otherwise noted on the plans, geotextile for erosion control measures shall be non-woven to meet class 1-OPSS 1860.07.02 (i.e. Terrafix 270R, or approved equivalent) with 300mm min. overlaps.
- Topsoil windrows shall be constructed separately from subsoil stockpiles, and shall be located no closer than two (2) metres from any adjacent property boundary. Windrow Slopes shall generally be flatter than 3:1 (horizontal to vertical) and should generally not exceed 6 metres in height.
- Temporary intercepter swales to be 600mm wide (min.) with 3:1 side slopes, and maintained until site pregrade is stabilized with temporary vegetation to the satisfaction of the engineer.
- Sediment controls shall be implemented by the Owner's Contractor in localized areas, as warranted, during construction phases, upon the direction of the engineer. Control approaches should be adaptable to reflect variable site conditions and circumstances.
- The Owner's Contractor shall prevent wind blown dust by periodic application of water.
- All substitutions are subject to approval by the Engineer.

**SEWER (SERVICE) NOTES**

- All sewers and watermain are to be installed in accordance with the minimum requirements of the latest revision of the Ontario Provincial Standard Specifications, the Ontario Building Code and the Municipality of Chatham/Kent Engineering Department.
- Unless labelled specifically on the plans, all sewer pipe shall be as follows:
  - All pipe less than 200mm dia. shall be PVC SDR 28 (CSA B182.2)
  - Products shall be as per the approved list of manufacturers provided by the Municipality of Chatham/Kent
  - HDPE is not permissible for use unless specified otherwise
- The Owner's Contractor shall be responsible for protecting the pipe during construction in the event that protective cover depths are not met due to interim conditions.
- Service bedding:** Pipe bedding spec. per bedding detail. (on this plan). Localized base improvement may be required for services bedded in loose, wet or dilatant silty/sandy subsoils, subject to the recommendations of the Geotechnical Engineer. Such improvement could include overexcavation and recompaction or crushed stone bedding wrapped in a geotextile (terrafix 270R or approved equivalent with min. 0.45m overlap) as directed by the Geotechnical Engineer. Any trench water shall be removed when pipe laying is in progress.
- When stone bedding is used for concrete pipe bedding, cover and bedding must be wrapped in a geotextile (terrafix 270R or approved equivalent with min. 0.45m overlap).
- Backfill for service trenches:** Services shall be backfilled with select native material or reclaimed granulars that are, in the opinion of the Geotechnical Engineer, suitable as backfill material and compacted to 95% SPMD. Select natural on-site excavated subsoil can be used as trench backfill, provided the material is within 3 percent of the optimum moisture content. Otherwise, backfill material shall be imported Granular "C" compacted to 95% SPMD. Backfill must be clean and compactible and free from organics and other undesirable contaminants. Service trench backfill material shall be placed in uniform layers not exceeding 300 mm in thickness, loose measurement, for the full width of the trench, and each layer shall be compacted according to OPSS 501 before a subsequent layer is placed. Backfill material shall be placed to a minimum depth of 300 mm above the crown of the pipe before power operated tractors or rolling equipment shall be used for compacting.
- The above noted backfill shall be compacted to the standard Proctor density specified in the soils report, or as approved by the Municipal Engineer.
- No connection of weeping tiles will be allowed to the sanitary sewer system. No gravity connection of weeping tiles to the storm sewer will be allowed unless the system has the capacity.
- The Owner's Contractor is responsible for:
  - connecting any existing sewer or drain encountered during construction to a new sewer or into another existing sewer;
  - ensuring that there is no interruption of any surface or subsurface drainage flow that would adversely affect neighbouring properties or the safety of the construction site.
- The rate of infiltration into storm and sanitary sewers shall not be greater than 34 litres per millimetre of internal diameter per kilometre of line length per day.
- The Owner's Contractor shall construct temporary measures to control silt entering the storm drainage system. These measures are to remain in place until construction has been completed all to the specifications of the Municipal Engineer. Geotextile and straw bale filters shall be installed around all existing and new CB's and CBMH's immediately upon installation in accordance with the detail. Straw bales are to remain in place until paving and/or sodding is complete.
- The structural design of sewers is based upon the transition width unless otherwise noted.
- All work shall be done in accordance with the minimum standards and specifications of the Municipality of Chatham/Kent Engineering Department including proper finishing off and parging of pipes in manholes and catchbasins and proper benching and manhole steps. Upon completion of sewer works, the Owner's Contractor is responsible for flushing and cleaning the sewers, manholes, catchbasin manholes and catchbasins and for successfully pulling a "PIG" through the flexible sewer pipes. The Owner's Contractor shall undertake suitable mandrel tests for installed flexible sewer pipes in accordance with OPSS 410, and full video inspection of all sewers per OPSS 409 to the satisfaction of the Engineer.
- All sewers and watermain are to be installed in accordance with the minimum requirements of the latest revision of the Ontario Provincial Standard Specifications and the Municipality of Chatham/Kent Engineering Department. The Engineer will conduct periodic inspections to ensure that the proper standards are being met.
- Any proposed substitutions are subject to approval by the Engineer.

**GENERAL NOTES:**

- NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR SHALL OBTAIN LOCATES FOR, EXPOSE AND CONFIRM LOCATION AND ELEVATION OF ALL EXISTING SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES AS REQUIRED DURING CONSTRUCTION.
- SEWER INSTALLATION METHODS SHALL BE AT THE CONTRACTOR'S DISCRETION AND MAY INCLUDE THE USE OF TRENCH LINERS WHERE REQUIRED TO MINIMIZE DISRUPTION TO EXISTING SEWERS/UTILITIES AND SURFACE FEATURES. PROTECTION AGAINST SLOPE STABILITY SHALL BE CONSIDERED AS REFERENCED IN THE GEOTECHNICAL REPORT.
- THE CONTRACTOR SHALL KEEP THE EXISTING STORM AND SANITARY SEWERS LIVE DURING CONSTRUCTION OF PROPOSED SERVICES. STORM/SANITARY FLOWS MAY NEED TO BE TEMPORARILY CONTROLLED AND PUMPED FROM THE SEWER SYSTEM TO A DOWNSTREAM MANHOLE TO FACILITATE CONSTRUCTION OF THE PROPOSED SEWERS. ANY SUCH TEMPORARY MEASURES SHALL BE CONDUCTED AT NO EXTRA COST TO THE CONTRACT AND BE BASED UPON THE CONTRACTOR'S WORK PLAN, WHICH SHALL BE SUBMITTED TO THE CONTRACT ADMINISTRATOR/ENGINEER PRIOR TO CONSTRUCTION. OFF HOUR CONSTRUCTION OR BY-PASS PUMPING MAY BE CONSIDERED SUBJECT TO APPROVAL BY THE ENGINEER/OWNER.
- THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE NO TREES ARE DAMAGED OR REMOVED DURING CONSTRUCTION UNLESS SPECIFICALLY DESIGNATED.

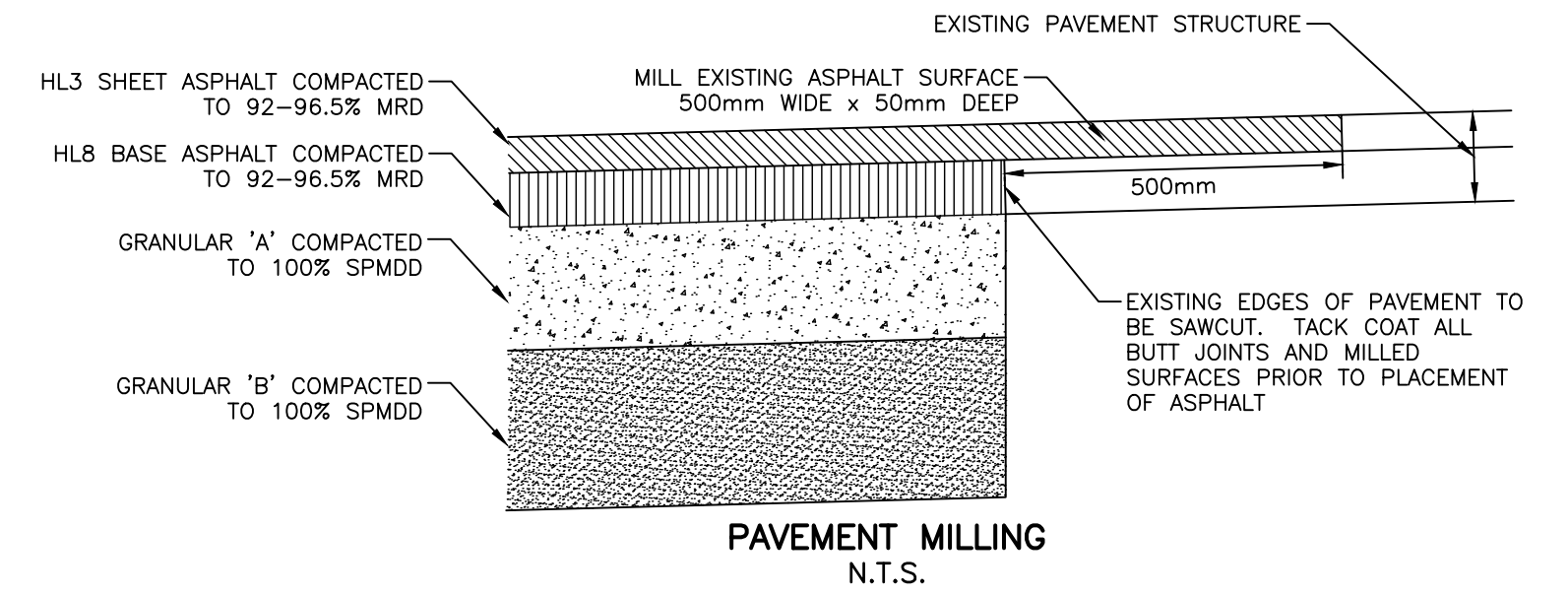
**RESTORATION NOTES:**

- SAWCUT & MILL ASPHALT PER DETAIL ON THIS SHEET. RESTORE AREAS DISTURBED AS FOLLOWS:
- 40mm HLB SURFACE ASPHALT COMPACTED TO 97% M.R.D.
  - 50mm HLB BINDER ASPHALT COMPACTED TO 97% M.R.D.
  - 150mm GRANULAR 'A' COMPACTED TO 100% SPMD
  - 300mm GRANULAR 'B' COMPACTED TO 100% SPMD

THE PAVEMENT STRUCTURE SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER AND BASED ON THE APPROVAL OF THE NEWLY ESTABLISHED SUBGRADE.

**SEDIMENT AND EROSION CONTROL NOTES**

- Protect all exposed surfaces and control all runoff during construction.
- All erosion control measures to be in place before starting construction and remain in place until restoration is complete.
- Maintain erosion control measures during construction.
- All collected sediment to be disposed of at an approved location.
- Minimize area disturbed during construction. All dewatering to be disposed of in an approved sedimentation basin.
- Protect all catchbasins, manholes and pipe ends from sediment intrusion with geotextile (Terrafix 270R or approved equivalent).
- Prevent wind-blown dust.
- Obtain approval from UTRCA before construction for works which are in, or adjacent to floodlines, fill lines and hazardous slopes.
- All silt fencing and details are at the minimum to be constructed in accordance with the Ministry of Natural Resources Guidelines on Erosion and Sediment Control for Urban Construction Sites.
- All of the above notes and any sediment and erosion control measures are at the minimum to be in accordance the Ministry of Natural Resources Guidelines on Erosion and Sediment Control for Urban Construction Sites.



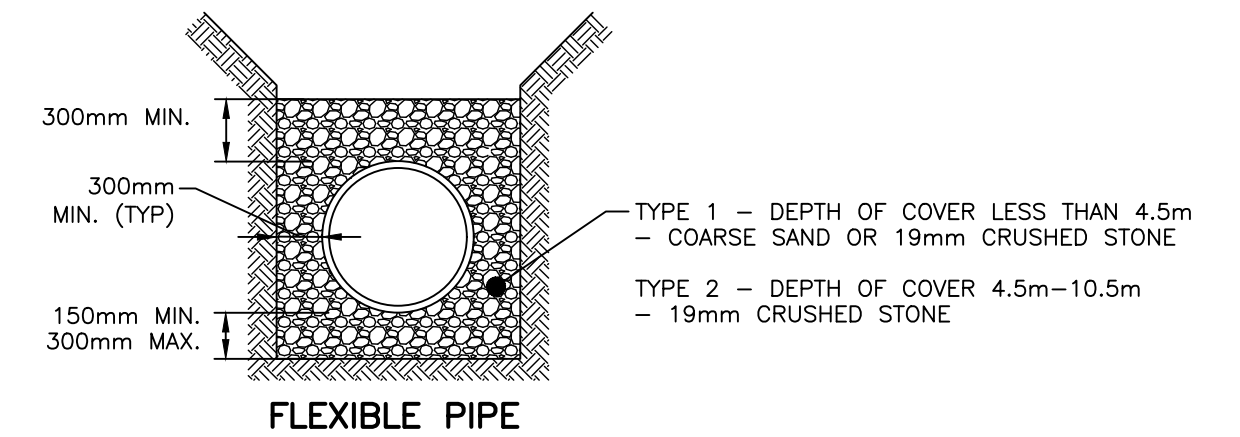
EXACT LIMITS OF EXCAVATION MAY VARY DEPENDENT UPON CONTRACTOR'S CHOSEN CONSTRUCTION METHODS AND CONDITIONS ENCOUNTERED IN THE FIELD. THE CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL SURFACES DISTURBED DURING CONSTRUCTION (CURB, SIDEWALK, PAVEMENT, LANDSCAPING, ETC.) TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.

AN ENGINEER-CERTIFIED DESIGN SUBMITTAL TO THE CONTRACT ADMINISTRATOR SHALL BE REQUIRED 14 DAYS (MIN) PRIOR TO UTILIZING TRENCHLESS TECHNOLOGY.

PRIOR TO CONSTRUCTION THE OWNER'S CONTRACTOR SHALL OBTAIN LOCATES FOR, EXPOSE AND CONFIRM LOCATION AND ELEVATION OF ALL EXISTING UNDERGROUND UTILITIES WITHIN THE LIMIT OF CONSTRUCTION. THE OWNER'S CONTRACTOR SHALL SUPPORT EXISTING UNDERGROUND UTILITIES AS REQUIRED.

THE OWNER'S CONSULTING ENGINEER IS REQUIRED TO INSPECT THE INSTALLATION OF SERVICES INCLUDED IN THIS PROJECT, IN ACCORDANCE WITH THE GENERAL REVIEW COMMITMENT CERTIFICATION PROCESS. THE OWNER'S CONTRACTOR IS TO ADVISE DEVELOPMENT ENGINEERING (LONDON) LTD. (519-672-8310) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ON THE SITE SERVICES.

TOPOGRAPHICAL INFORMATION AND SITE BENCHMARK AS PROVIDED HOOK & TODGHAM SURVEYING INC. (JAN. 24, 2017). DEVELOPMENT ENGINEERING (LONDON) LIMITED ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY.



- NOTES:
- PROPERLY CONSOLIDATED AND COMPACTED 19mm CRUSHED STONE BEDDING TO BE EXCLUSIVELY UTILIZED AS BEDDING MATERIAL WITHIN 5.0m OF ALL MANHOLES.
  - FOR SERVICES BEDDED IN LOOSE, WET OR DILATANT SILTY/SANDY SUBSOILS, CRUSHED STONE BEDDING TO BE WRAPPED IN A GEOTEXTILE (TERRAFIX 270R OR APPROVED EQUIVALENT WITH MIN. 0.45m OVERLAP) AS DIRECTED BY THE GEOTECHNICAL ENGINEER.

**BEDDING STANDARD FOR GRAVITY AND PRESSURE PIPE NTS**

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EXISTING SERVICES	DRAWING #, SOURCE	DATE	AS CONSTRUCTED SERVICES	COMPLETION	DETAILS	No.	REVISIONS	DATE	CONSULTANT	CONSULTANT OR DIVISION	ENGINEER'S STAMP	SCALE	OUR LADY OF FATIMA CATHOLIC SCHOOL 515 BALDOON ROAD CHATHAM, ONTARIO	PROJECT No. DEL18-011
					DESIGN BY JSC/DH	1	ISSUED FOR TENDER/APPROVAL	FEB. 04, 2019	DEVENG	London Office 41 Adelaide St. N., Unit 71 (519) 672-8310				SHEET No. P3-SE2
				DRAWN BY JSC	2	ISSUED FOR TENDER ADDENDUM 2	FEB. 27, 2019	DEVENG						
				CHECKED BY DH	3	REISSUED FOR TENDER ADDENDUM 2	MAR. 07, 2019	DEVENG						
										Paris Office 31 Mechanic St., Unit 301 (519) 442-1441			PLAN FILE No.	
FILE: DEL18-011-CSD-BASE PHASE 3.DWG														