

1 SITE PLAN
C100 SCALE: 1 : 50

SITE WORK

1 GENERAL:

- .1 CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO START OF CONSTRUCTION.
- .2 PRIOR TO COMMENCING WORK, CONTRACTOR SHALL VERIFY AND ESTABLISH THE LOCATION OF ALL BURIED SERVICES ON AND ADJACENT TO THE SITE.
- .3 PROTECTION:
 - .1 KEEP EXCAVATIONS CLEAN, FREE OF STANDING WATER, AND LOOSE SOIL.
 - .2 RETAIN AND PROTECT NATURAL AND MAN-MADE FEATURES REQUIRED TO REMAIN UNDISTURBED.
 - .3 PROTECT EXISTING LANDSCAPING AND TREES FROM DAMAGE.
 - .4 PROTECT BURIED SERVICES THAT ARE REQUIRED TO REMAIN UNDISTURBED.

2 SITE PREPARATION:

- .1 REMOVE OBSTRUCTIONS, FROM SURFACES TO BE EXCAVATED WITHIN LIMITS INDICATED.
- .2 CUT PAVEMENT OR SIDEWALK NEATLY ALONG LIMITS OF PROPOSED EXCAVATION IN ORDER THAT SURFACE MAY BREAK EVENLY AND CLEANLY.
- .3 REMOVE TREES, STUMPS, LOGS, BRUSH, SHRUBS, BUSHES, VINES, UNDERGROWTH, ROTTEN WOOD, DEAD PLANT MATERIAL, EXPOSED BOULDERS AND DEBRIS WITHIN AREAS DESIGNATED ON DRAWINGS.
- .4 REMOVE STUMPS AND TREE ROOTS BELOW FOOTINGS, SLABS, AND PAVING.
- .5 DISPOSE OF CLEARED AND GRUBBED MATERIAL OFF SITE DAILY TO DISPOSAL AREAS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION.

3 EXCAVATION:

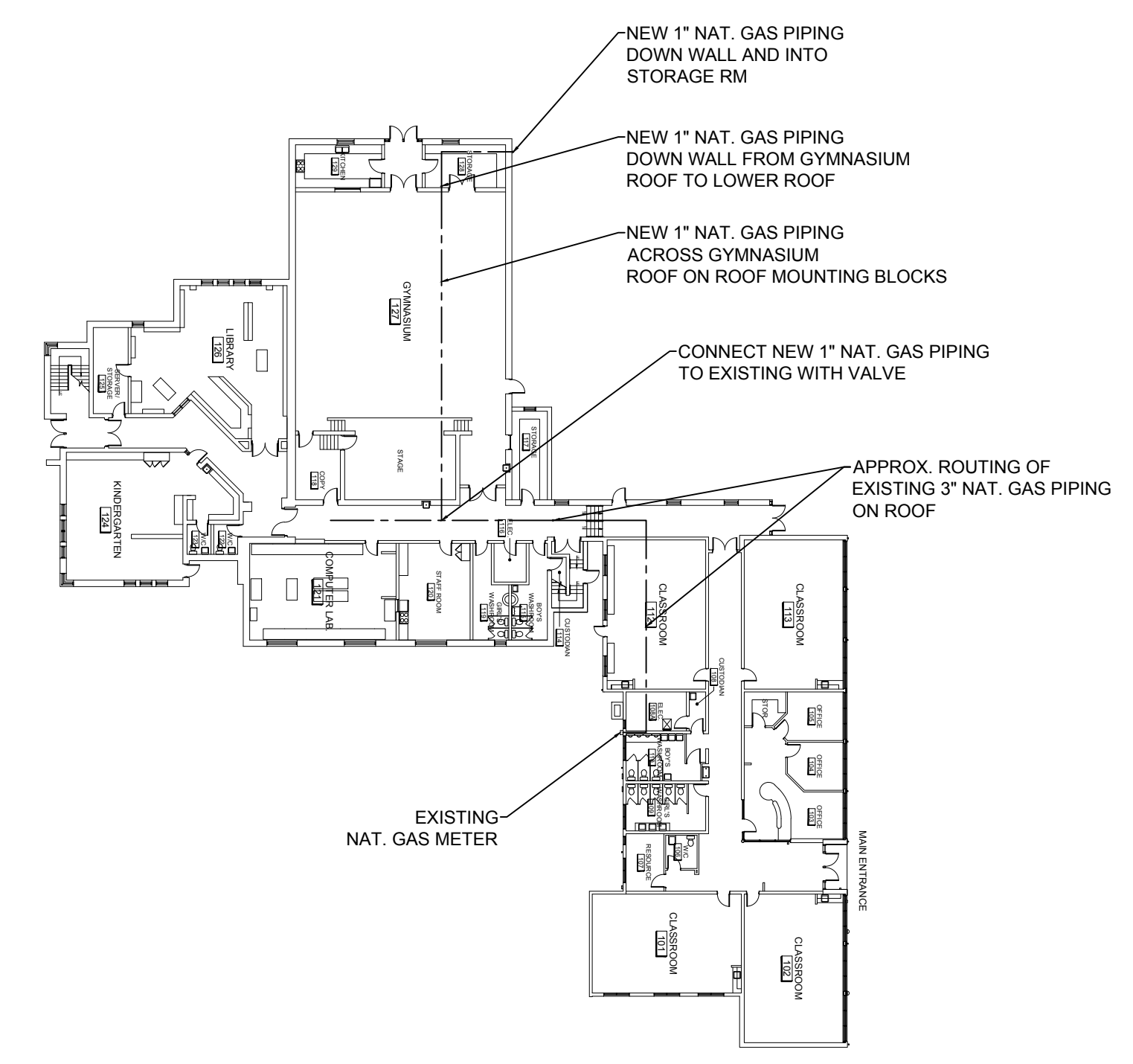
- .1 STRIP TOPSOIL TO DEPTHS REQUIRED FOR PLACEMENT OF NEW MATERIALS.
- .2 STRIP TOPSOIL OVER AREAS TO BE COVERED BY NEW CONSTRUCTION, OVER AREAS WHERE GRADE CHANGES ARE REQUIRED, AND SO THAT EXCAVATED MATERIAL MAY BE STOCKPILED WITHOUT COVERING TOPSOIL.
- .3 STOCKPILE MATERIALS IN LOCATIONS AS DIRECTED BY PROJECT MANAGER.
- .4 DO NOT DISTURB SOIL OR ROCK BELOW BEARING SURFACES.
- .5 NOTIFY PROJECT MANAGER WHEN EXCAVATIONS ARE COMPLETE.
- .6 IF BEARINGS ARE UNSATISFACTORY, ADDITIONAL EXCAVATION WILL BE AUTHORIZED IN WRITING AND PAID FOR AS ADDITIONAL WORK.
- .7 EXCAVATION TAKEN BELOW DEPTHS SHOWN WITHOUT PROJECT MANAGER WRITTEN AUTHORIZATION, TO BE FILLED AT CONTRACTOR'S EXPENSE.

4 BACKFILLING:

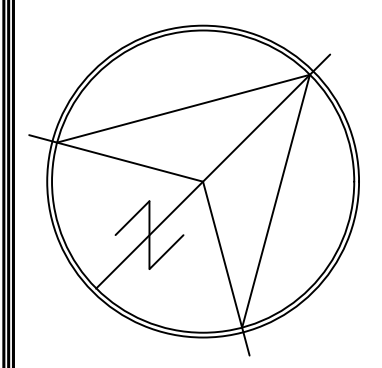
- .1 DO NOT COMMENCE BACKFILLING UNTIL FILL MATERIAL AND SPACES TO BE COMPACTION OF SUBGRADE: COMPACT EXISTING SUBGRADE UNDER WALKS, PAVING, AND SLABS ON GRADE, COMPACTION AS SPECIFIED.
- .2 PLACE BACKFILL, FILL AND BASECOURSE MATERIAL IN 150 MM LIFTS. ADD WATER AS REQUIRED TO ACHIEVE SPECIFIED DENSITY.
- .3 COMPACT EACH LAYER OF MATERIAL TO FOLLOWING DENSITIES FOR MATERIAL TO ASTM D698:
 - .1 TO UNDERSIDE OF BASECOURSES: 95%.
 - .2 BASECOURSES: 100%.
 - .3 ELSEWHERE: 90%.
- .5 UNDER SEEDED AND SODDED AREAS: USE SITE EXCAVATED MATERIAL TO BOTTOM OF TOPSOIL EXCEPT IN TRENCHES AND WITHIN 24" (600mm) OF FOUNDATIONS.
- .6 AGAINST FOUNDATIONS (EXCEPT AS APPLICABLE TO TRENCHES AND UNDER SLABS AND PAVING): EXCAVATED MATERIAL OR IMPORTED MATERIAL WITH NO STONES LARGER THAN 4" (100mm) DIAMETER WITHIN 24" (600mm) OF STRUCTURES.

5 GRADING:

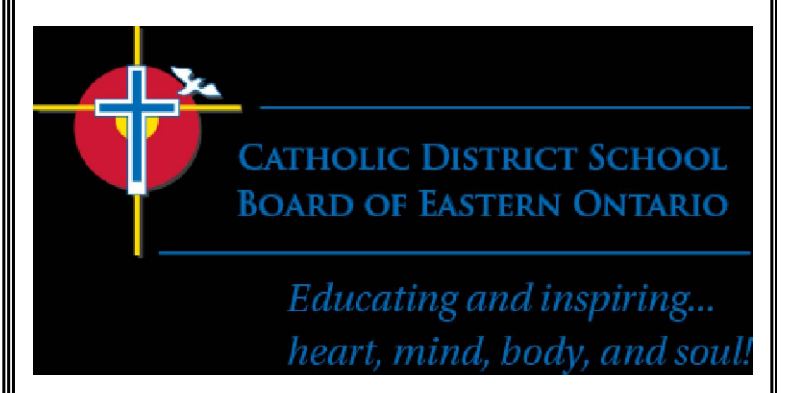
- .1 GRADE SO THAT WATER WILL DRAIN AWAY FROM BUILDINGS, WALLS AND PAVED AREAS, TO CATCH BASINS AND OTHER DISPOSAL AREAS.
- .2 GRADE TO BE GRADUAL BETWEEN FINISHED SURFACE AND SURROUNDING AREAS.
- .3 SUPPLY ALL NECESSARY FILL TO MEET BACKFILLING AND GRADING REQUIREMENTS AND WITH MINIMUM AND MAXIMUM ROUGH GRADE VARIANCE.
- .4 DISPOSE OF SURPLUS MATERIAL OFF SITE.



2 KEY PLAN
C100 SCALE: 1 : 400



1	2018-06-06	FINAL REVIEW
0	2018-05-15	FOR REVIEW
No.	Date	REVISION



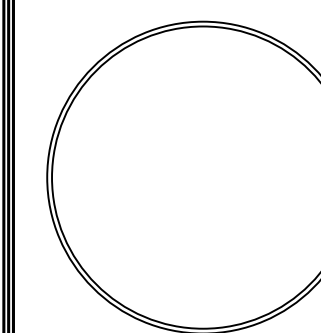
Client:
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Kemptville, Ontario

Project:
ST. MARY CATHOLIC SCHOOL
4 Hawthorne Ave.
Carleton Place, Ontario

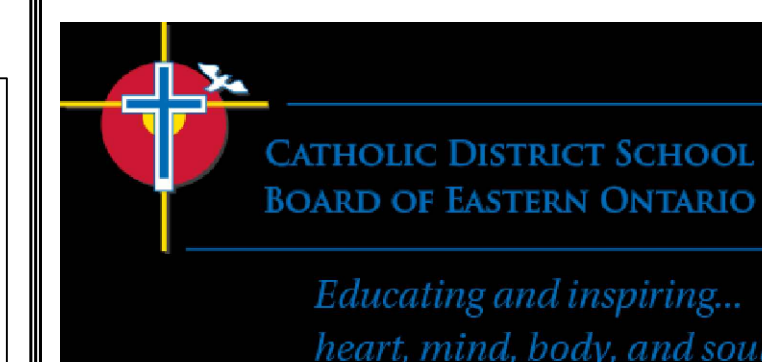
Drawing:
SITE
Site Plan
Ramp
Key Plan

Design:	M.MORRIS
Drawn:	A.M.
Date:	APR 2018
Project:	363
Scale:	AS SHOWN

C100



No.	Date	REVISION
1	2018-06-06	FINAL REVIEW
0	2018-05-15	FOR REVIEW



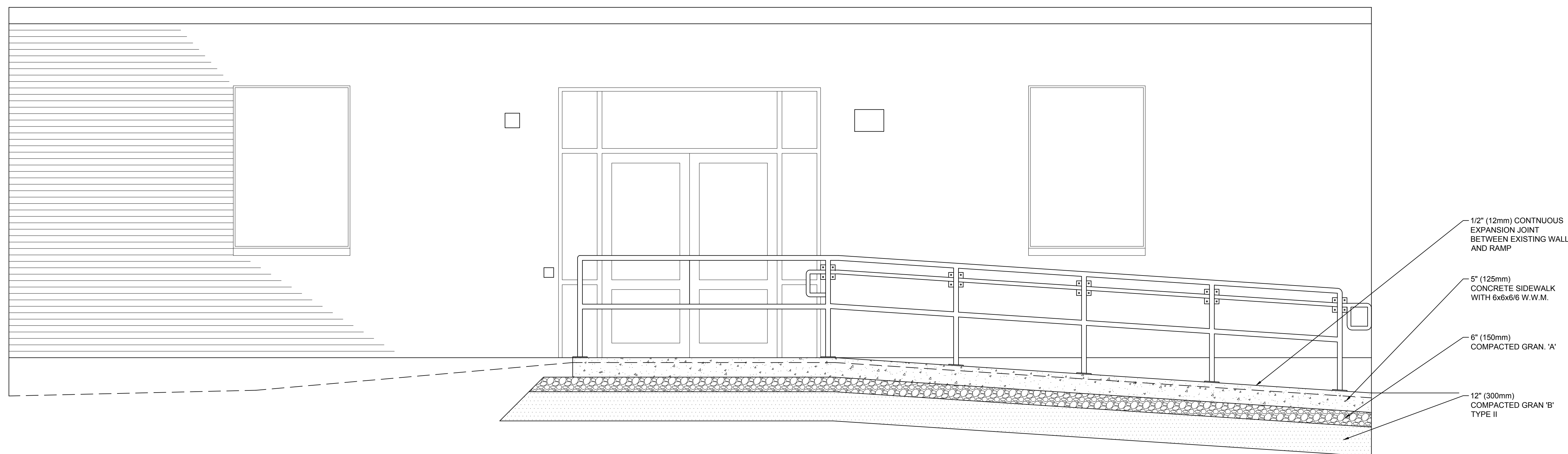
Client:
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Kemptville, Ontario

Project:
ST. MARY CATHOLIC SCHOOL
4 Hawthorne Ave.
Carleton Place, Ontario

Drawing:
SITE Ramp & Details

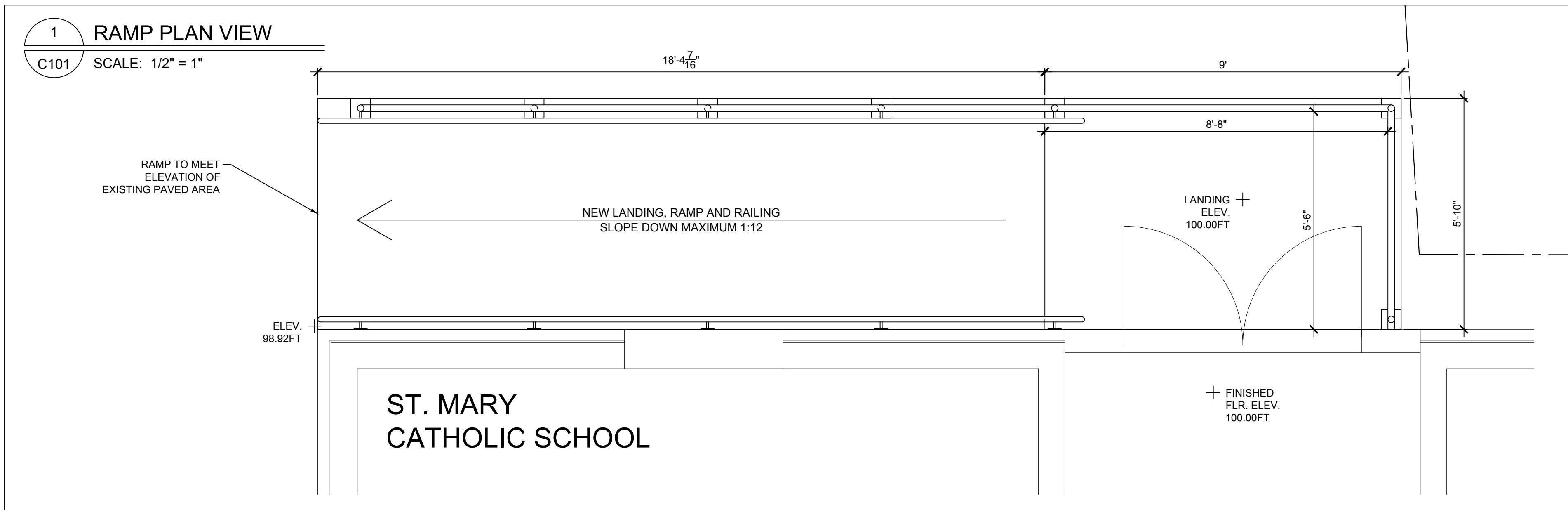
Design: M.MORRIS
Drawn: A.M.
Date: APR 2018
Project: 363
Scale: AS SHOWN

C101



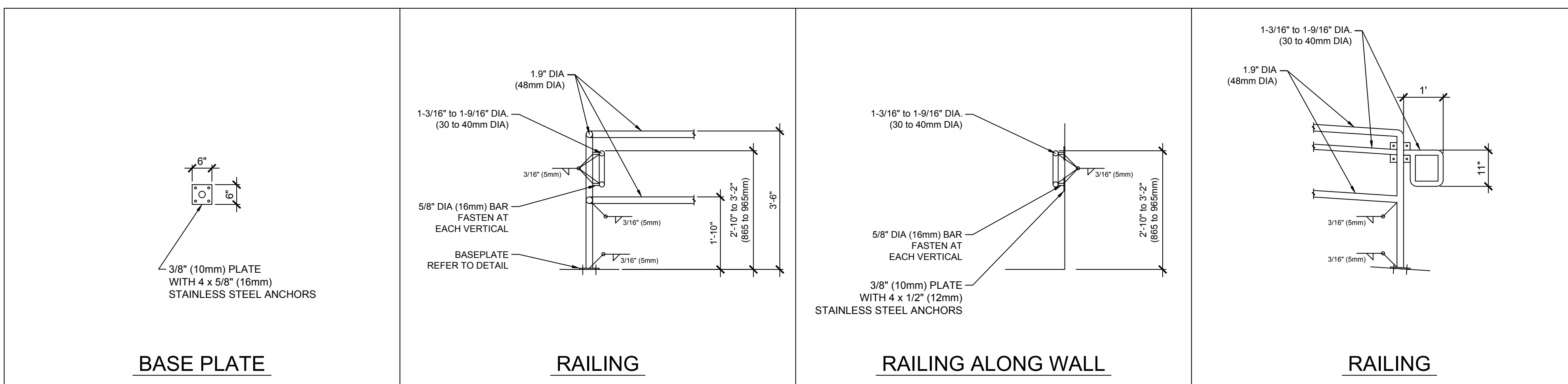
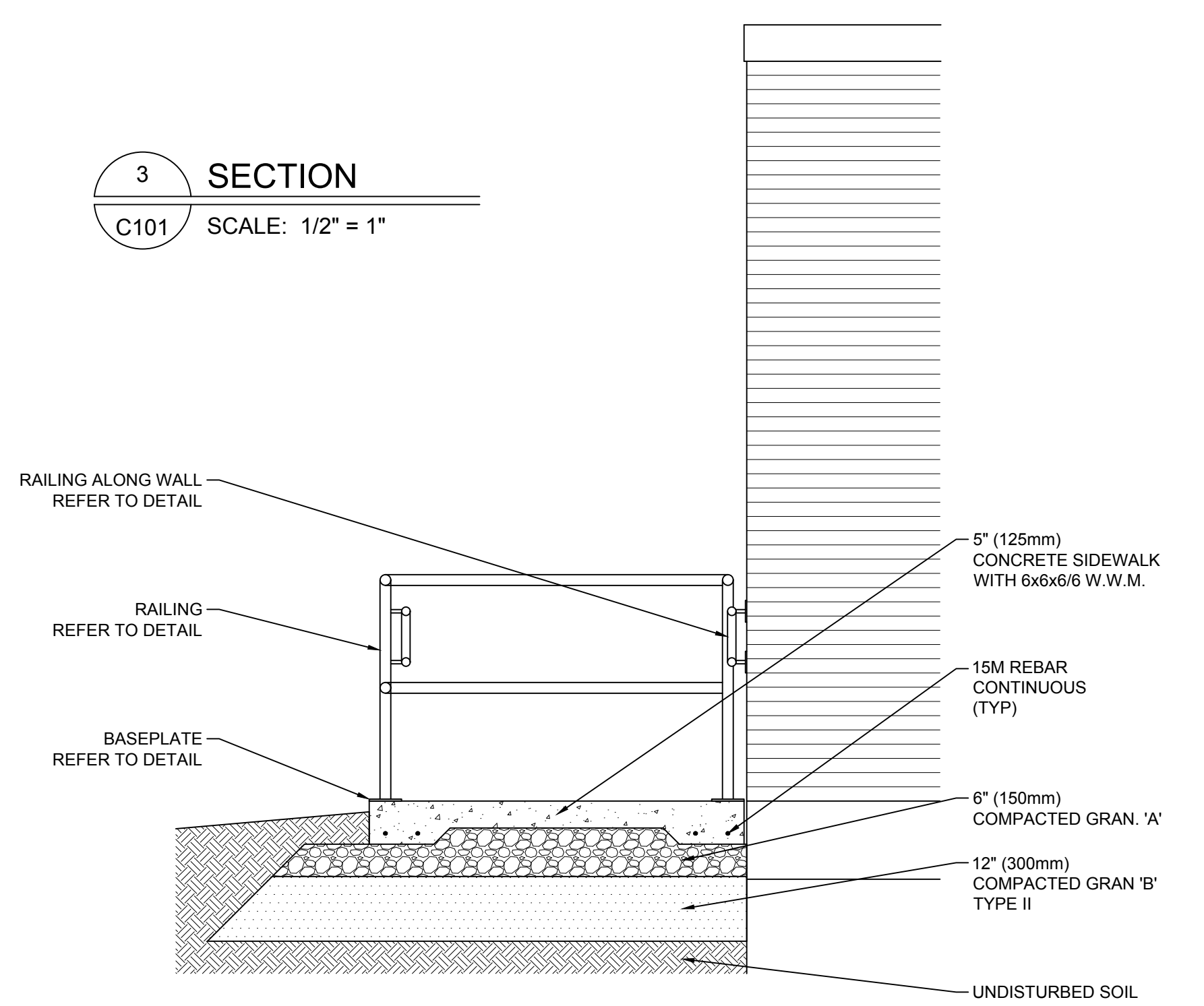
2 NORTH ELEVATION
C101 SCALE: 1/2" = 1"

- STRUCTURAL NOTES:**
1. PRIOR TO PLACING CONCRETE FOR SLAB, PROJECT MANAGER OR ENGINEER TO INSPECT EXCAVATION, REBAR AND WIRE MESH.
 2. CONCRETE WORK TO BE 32 MPa @ 28 DAYS WITH AN AIR CONTENT OF 6% ± 1% AT TIME OF PLACING AND A MAX. SLUMP OF 3-1/2".
 3. CONCRETE MATERIAL AND CONSTRUCTION TO CAN. A23.1 AND CAN. A23.3.
 4. WELDED WIRE FABRIC FOR CONCRETE REINFORCEMENT TO G30.5-M1983.
 5. REINFORCING STEEL TO BE G30.12-M1977. GRADE 400 MPa.
 6. CONCRETE COVER TO REINFORCING STEEL TO BE 3" WHERE IN CONTACT WITH SOIL AND 2" AT OTHER LOCATIONS.



1 RAMP PLAN VIEW
C101 SCALE: 1/2" = 1"

3 SECTION
C101 SCALE: 1/2" = 1"



4 RAILING DETAILS
C101 SCALE: 1/2" = 1"

GENERAL INSTRUCTIONS

- 1.1 GENERAL:
- CONFORM WITH APPLICABLE REQUIREMENTS OF THE MINISTRY OF LABOUR, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
 - DO COMPLETE INSTALLATION IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
 - ARRANGE FOR INSPECTIONS AND TESTS, AND PAY ALL ASSOCIATED COSTS & FEES, UNLESS OTHERWISE NOTED.
 - CLEAN ALL AREAS OF WORK AT PROJECT COMPLETION.
 - COMPLETE AS-BUILT DRAWINGS SHOWING ALL CHANGES AS WORK PROGRESSES.
- 1.2 EXAMINATION:
- THE CONTRACTOR AND ALL SUB-CONTRACTORS SHALL FAMILIARIZE THEMSELVES WITH CONDITIONS AT THE SITE. EACH ONE SHALL BEAR COMPLETE RESPONSIBILITY FOR FAMILIARIZATION WITH CONDITIONS AND THE EFFECT THAT SAME MAY HAVE ON WORK.
 - EVERY SUB-CONTRACTOR SHALL EXAMINE THE CONTRACT DOCUMENTS. THE CONDITIONS ON SITE AND THE WORK IN PLACE PRIOR TO COMMENCING THE VARIOUS PORTIONS OF THIS WORK.
 - THE CONTRACTOR AND EACH SUB-CONTRACTOR SHALL REPORT IN WRITING TO THE ENGINEER AND THE CONTRACTOR ANY DEFECTS AFFECTING THE WORK OF THAT TRADE.
 - COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE OF ACCEPTANCE OF UNDERLYING SURFACES, CONDITIONS, ARRANGEMENTS AND LOCATION AS SATISFACTORY.
- 1.3 SUPERVISION:
- THE OVERALL SUPERINTENDENCE OF THE PROJECT, ENSURING THE COMPLETE PERFORMANCE OF ALL SUB-CONTRACTORS AND SUPPLIERS AS LAID DOWN IN THE SPECIFICATIONS, IS THE RESPONSIBILITY OF THE CONTRACTOR. A FULLY COMPETENT SITE SUPERINTENDENT SHALL BE IN CHARGE OF THE WORK AT ALL TIMES THROUGHOUT THE CONTRACT. THE SUPERINTENDENT SHALL STUDY THE PLANS AND SPECIFICATIONS IN DETAIL AND BE COMPLETELY FAMILIAR WITH THE PROJECT AT THE OUTSET. ONCE CONVERSANT WITH THE DOCUMENTS, THEY SHALL RELATE THEM TO THE EXISTING CONDITIONS. ANY ERRORS OR DISCREPANCIES IN DIMENSIONS, DETAILS, ETC. IN THE PLANS AND SPECIFICATIONS OR THEIR RELATIONSHIP TO THE EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE BEGINNING THE WORK. ALLOW ENGINEER TIME FOR CLARIFICATION OR CORRECTION AS REQUIRED.
 - ENSURE THAT ALL NECESSARY JOB DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.
 - VERIFY THAT ALL WORK AS IT PROCEEDS IS EXECUTED IN ACCORDANCE WITH DIMENSIONS AND POSITIONS INDICATED, WHICH MAINTAIN LEVELS AND CLEARANCES TO ADJACENT WORK AS SET OUT BY REQUIREMENTS OF THE DRAWINGS; AND ENSURE THAT WORK INSTALLED IN ERROR IS RECTIFIED BEFORE CONSTRUCTION CONTINUES.
 - CHECK AND VERIFY ALL DIMENSIONS REFERRING TO THE WORK AND THE INTERFACING OF ALL SERVICES, VERIFY WITH THE TRADE CONCERNED ALL DIMENSIONS PERTAINING TO THE WORK OF OTHER TRADES.
 - ANY ERRORS, DISCREPANCIES, OR TRADE CONFLICTS ARISING DURING CONSTRUCTION SHALL, WHEN NECESSARY, BE REFERRED TO THE ENGINEER FOR CLARIFICATION AND/OR DECISION. ALLOW ENGINEER TIME FOR DELIBERATION AS REQUIRED.
- 1.4 COOPERATION AND COORDINATION:
- IF THE SCHOOL IS OCCUPIED DURING THE CONSTRUCTION OR DEMOLITION, PROTECTION OF THE STUDENTS, STAFF AND PUBLIC IS OF UTMOST CONCERN TO THE OWNER. TAKE ALL PRECAUTIONS NECESSARY AND PROVIDE ALL MEANS NECESSARY TO ADEQUATELY PROTECT ALL PERSONS ON THE SITE. THIS WILL ENTAIL RESTRICTING CONSTRUCTION AND DELIVERY TRAFFIC WHEN SCHOOL BUSES AND STAFF, AND PARENT VEHICLES ARE ARRIVING AND LEAVING IN THE MORNING AND THE AFTERNOON.
 - COORDINATE ALL SUB-CONTRACTORS AND SUPPLIERS SO THAT WORK PROCEEDS SMOOTHLY WITHOUT INTERRUPTION AND IN STRICT ACCORDANCE WITH REVIEWED SCHEDULES. COORDINATE SO THAT WORK IS EXECUTED IN PROPER SEQUENCE, ITEMS TO BE BUILT-IN ARE BUILT-IN ON TIME. ERECTED WORK IS PROTECTED AGAINST DAMAGE FROM THE WORK OF OTHER TRADES AND DEFECTIVE WORK IS REMOVED AND MADE GOOD TO THE SATISFACTION OF THE ENGINEER.
 - STUDY ALL DOCUMENTS WHICH DESCRIBE, OR ARE RELATED TO, ANY OPERATION BEFORE COMMENCEMENT OF THAT OPERATION. REPORT DISCREPANCIES DISCOVERED BETWEEN ELEMENTS OF DOCUMENTATION AND OBTAIN RULING ON REQUIRED INTERPRETATION BEFORE BEGINNING WORK. ALLOW ENGINEER TIME TO MAKE RULING AS REQUIRED.
 - ENSURE THAT MATERIAL, EQUIPMENT, SERVICES AND OPERATIVES ARE BROUGHT TO SITE AT PROPER TIMES, IN SUFFICIENT QUANTITY AND QUALITY AND IN ACCORDANCE WITH REQUIREMENTS OF WORK.
 - CONTRACTOR SHALL ENSURE THAT EACH SUBCONTRACTOR INFORMS THEM OF REQUIREMENTS FOR SITE CONDITIONS AND SURFACES NECESSARY FOR THE EXECUTION OF THE WORK AND THAT THEY PROVIDE SETTING DRAWINGS, TEMPLATES AND ALL OTHER INFORMATION NECESSARY FOR THE LOCATION AND INSTALLATION OF MATERIAL, HOLES, SLEEVES, INSERTS, ANCHORS, ACCESSORIES, FASTENINGS, CONNECTIONS AND ACCESS PANELS. THE CONTRACTOR SHALL INFORM OTHER SUB-CONTRACTORS WHOSE WORK IS AFFECTED BY THESE REQUIREMENTS AND PREPARATORY WORK.
 - CONTRACTOR AND SUB-CONTRACTORS SHALL COOPERATE FULLY WITH OTHER CONTRACTORS AND SUB-CONTRACTORS WORKING ON THIS PROJECT. PERFORM NECESSARY COORDINATION TO INSTALL EQUIPMENT SUPPLIED, OR SUPPLIED AND INSTALLED BY OWNER.
 - REMOVE AND REPLACE CEILINGS AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF WORK TO ALLOW FOR PROJECT COMPLETION.
 - ENGINEER'S NORMAL HOURS OF OPERATION ARE BETWEEN 7:30 A.M. AND 4:30 P.M. MONDAY TO FRIDAY. ACCOUNT FOR THESE HOURS OF OPERATION WHEN COMMUNICATING WITH THE ENGINEER, WHEN PROVIDING THE ENGINEER WITH SUFFICIENT NOTICE, AND/OR WHEN ALLOWING THE ENGINEER TIME FOR DELIBERATION AS REQUIRED.
- 1.5 SCHEDULING AND CONTRACTOR'S USE OF SITE:
- USE OF SITE: FOR EXECUTION OF THE WORK AND AS OTHERWISE NOTED OR INDICATED.
 - DATES AND HOURS OF WORK:
 - JUNE 30, 2018 TO AUGUST 24, 2018, HOURS TO WORK ARE FROM 7:00AM.
 - WEEKENDS ARE AVAILABLE FOR WORK.
 - CUSTODIAN WORK HOURS DURING SCHOOL OPERATIONS IS FROM 7:00 AM TO 3:00 PM. CONTRACTOR WILL BE RESPONSIBLE TO ARM THE SECURITY SYSTEM EACH DAY IF AFTER 3PM.
 - CONTRACTORS WORK HOURS ARE TO BE SCHEDULED AND COORDINATED WITH OWNER AND ENGINEER PRIOR TO CONSTRUCTION AT FIRST START UP MEETING.
 - ARRANGE WITH PROJECT MANAGER FOR SECURITY CODES & ACCESS.
 - CONFINE OPERATION, STORAGE, ACCESS AND PARKING TO OWNER'S DISCRETION.
 - DO NOT UNREASONABLY ENCUMBER SITE WITH MATERIALS OR EQUIPMENT.
 - MOVE STORED PRODUCTS OR EQUIPMENT WHICH INTERFERE WITH OPERATIONS OF OWNER OR OTHER CONTRACTORS.
 - OBTAIN AND PAY FOR USE OF ADDITIONAL STORAGE OR WORK AREAS NEEDED FOR OPERATIONS.
 - MAINTAIN PROJECT GROUNDS AND PUBLIC PROPERTIES FREE FROM ACCUMULATION OF WASTE MATERIALS AND RUBBISH.
- 1.6 DOCUMENTS REQUIRED:
- MAINTAIN AT JOB SITE, COPIES OF CONTRACT DRAWINGS, SPECIFICATIONS, ADDENDA, REGULATORY AUTHORITY APPROVED DRAWINGS, PERMITS, ORDERS AND CHANGE ORDERS, SITE INSTRUCTIONS, OTHER MODIFICATIONS TO CONTRACT, FIELD TEST REPORTS, INSPECTION REPORTS, JOB MINUTES, REVIEWED SCHEDULE, MANUFACTURER'S INSTALLATION AND APPLICATION INSTRUCTIONS, MATERIAL
- SAFETY DATA SHEETS, SET OF DRAWINGS FOR AS-BUILTS, LATEST COPY OF ONTARIO BUILDING CODE, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- 1.7 INSPECTION, TESTS AND APPROVAL:
- AT LEAST FORTY-EIGHT HOURS NOTICE SHALL BE GIVEN TO THE ENGINEER IN ORDER THAT ALL INSPECTIONS AND TESTS CALLED FOR BY THESE SPECIFICATIONS MAY BE IMPLEMENTED. FAILURE TO GIVE SUCH NOTICE WILL RESULT IN COMPLETE RETESTING IF DEEMED NECESSARY BY THE ENGINEER. NO WORK SHALL BE COVERED UP UNTIL INSPECTION AND ACCEPTANCE BY THE ENGINEER OR INSPECTOR.
- 1.8 BUILDING AND OTHER PERMITS:
- THE OWNER SHALL PAY FOR THE MAIN BUILDING PERMIT. APPLY FOR AND PAY ALL OTHER REQUIRED FEES SUCH AS ROAD CUT FEES, HYDRO INSPECTION FEES, LANDFILL DUMPING FEES AND THE LIKE.
 - PROVIDE AUTHORITIES WITH SUCH PLANS AND INFORMATION AS MAY BE REQUIRED FOR THE ISSUANCE OF ACCEPTANCE CERTIFICATES.
 - OBTAIN ALL INSPECTION CERTIFICATES REQUIRED BY AUTHORITIES HAVING JURISDICTION. HAND OVER COPIES OF SAME TO ENGINEER.
- 1.9 SETTING OUT LINES AND LEVELS:
- CONTRACTOR SHALL CONFIRM ALL ELEVATIONS AND/OR DIMENSIONS OF EXISTING CONDITIONS ON SITE AND ALLOW FOR SAME IN TENDERING PRICE.
 - VERIFY AND RECORD ON THE RECORD DRAWINGS, ELEVATION OF FOOTING BEARING SURFACES, TOP OF FOOTINGS, NEW SERVICES, EXISTING UTILITIES ENCOUNTERED; ALL RELATED TO FINISHED FLOOR ELEVATION OR GEODETIC ELEVATIONS.
- 1.10 CUTTING AND PATCHING:
- EXECUTE CUTTING, FITTING AND PATCHING REQUIRED TO MAKE THE WORK FIT PROPERLY TOGETHER. CUT AND PATCH FOR PROCESS, MECHANICAL AND ELECTRICAL WORK.
 - COORDINATE WORK WITH OTHER TRADES SO THAT THERE IS A MINIMUM OF CUTTING, FITTING AND PATCHING.
 - DRILLING, CUTTING, FITTING AND PATCHING AND MAKING GOOD WHERE NECESSARY DUE TO FAILURE TO DELIVER ITEMS TO BE BUILT IN TIME OR INSTALLATION IN WRONG LOCATION, SHALL BE EXECUTED AS DIRECTED AT NO COST TO THE OWNER.
 - DRILLING AND CUTTING OF LOAD BEARING STRUCTURAL MEMBERS SHALL BE DONE ON PRIOR EXPRESS WRITTEN PERMISSION OF THE ENGINEER FOR EACH INSTANCE.
 - CUT HOLES ACCURATELY, WITH SMOOTH, TRUE, CLEAN EDGES. FIT UNITS TO TOLERANCES SPECIFIED OR SHOWN OR, IF NOT NOTED, TO BEST STANDARD PRACTICE FOR APPLICABLE WORK.
 - HOLES IN BLOCK WORK SHALL BE CUT NOT MADE WITH A HAMMER GUN.
 - PATCHED WORK SHALL BE INVISIBLE, SIZE HOLES AND OPENINGS FOR PIPES SO AS TO ALLOW FOR EXPANSION AND CONTRACTION OF SUCH PIPES.
 - EMPLOY TRADESMEN SKILLED IN THE WORK AND EXECUTE WORK TO STANDARDS SPECIFIED FOR THAT WORK ON THIS PROJECT.
 - PATCH AS REQUIRED TO MAINTAIN INTEGRITY OF FIRE SEPARATIONS, RATINGS AND ASSEMBLIES. PATCH AS REQUIRED TO MAINTAIN AIR AND MOISTURE TIGHTNESS OF CONSTRUCTION.
- 1.11 CONCEALMENT:
- CONCEAL PIPES, DUCTS, AND WIRING IN WALL AND CEILING CONSTRUCTION EXCEPT WHERE INDICATED OTHERWISE ON ARCHITECTURAL DRAWINGS.
- 1.12 LOCATION OF EQUIPMENT AND FIXTURES:
- LOCATION OF EQUIPMENT, FIXTURES AND OUTLETS INDICATED OR SPECIFIED ARE TO BE CONSIDERED AS APPROXIMATE UNLESS NOTED OTHERWISE.
 - LOCATE EQUIPMENT, FIXTURES AND DISTRIBUTION SYSTEMS TO PROVIDE MINIMUM INTERFERENCE AND MAXIMUM USABLE SPACE AND IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SAFETY ACCESS AND MAINTENANCE.
 - INFORM ENGINEER OF IMPENDING INSTALLATION AND OBTAIN THEIR ACCEPTANCE FOR ACTUAL LOCATION.
 - SUBMIT FIELD DRAWINGS TO INDICATE RELATIVE POSITION OF VARIOUS SERVICES AND EQUIPMENT.
- 1.13 INSERTS, SLEEVES AND ANCHORS:
- PROVIDE ALL SLEEVES, INSERTS, ANCHORS, HANGERS, SUPPORTS, ADHESIVES AND THE LIKE NECESSARY FOR EXECUTION OF THE WORK.
 - CO-ORDINATE WORK WITH OTHER TRADES, ARRANGE AND PAY FOR INSTALLATION OF SLEEVES, INSERTS, ANCHORS, ETC. BY APPROPRIATE TRADE.
 - EMPLOY WORKERS SKILLED IN THE WORK AND EXECUTE WORK TO THE STANDARDS SPECIFIED FOR THAT WORK ON THE PROJECT.
- 1.14 PUBLIC AND PRIVATE UTILITIES AND SERVICES
- VERIFY LIMITATIONS IMPOSED ON PROJECT WORK BY PRESENCE OF UTILITIES AND SERVICES, AND ENSURE NO DAMAGE OCCURS TO THEM.
 - NOTIFY SERVICE AUTHORITIES CONCERNED SO THAT THEY PROTECT, REMOVE, RELOCATE, OR DISCONNECT THEM AS THEY MAY REQUIRE.
 - MAKE ARRANGEMENTS AND PAY FOR CONNECTION CHARGES FOR SERVICES REQUIRED FOR PROJECT WORK.
 - WHERE UNKNOWN SERVICES ARE ENCOUNTERED, IMMEDIATELY ADVISE ENGINEER AND CONFIRM FINDINGS.
- 1.15 WASTE AND RUBBISH:
- SEPARATE AND RECYCLE WASTE MATERIALS.
 - DIVERT UNUSED METAL MATERIALS FROM LANDFILL TO METAL RECYCLING FACILITY.
 - REMOVE FROM SITE AND DISPOSE OF PACKAGING MATERIALS AT APPROPRIATE RECYCLING FACILITIES.
 - DO NOT BURN OR BURY RUBBISH AND WORK MATERIALS ON SITE.
 - DISPOSE OF RUBBISH AND SURPLUS MATERIAL OFF SITE.
 - DO NOT DISPOSE OF VOLATILE OR CORROSIVE MATERIALS IN SEWERS AND DRAINS.
 - DISPOSE OF WASTE IN A MANNER NOT DETRIMENTAL TO PUBLIC, PRIVATE OR OWNER'S PROPERTY, OR TO ANY PORTION OF THE WORK COMPLETED OR UNDER CONSTRUCTION.
 - EXCEPT IF EXPRESSLY STATED OTHERWISE, MATERIALS INDICATED FOR REMOVAL BECOME THE CONTRACTOR'S PROPERTY AND SHALL BE TAKEN FROM THE SITE.
 - DISPOSE OF RUBBISH AND WASTE IN ACCORDANCE WITH GOVERNING REGULATIONS.
- 1.16 SMOKING POLICY:
- SMOKING IS NOT PERMITTED WITHIN THE BUILDING OR ON SCHOOL PROPERTY AT ANY TIME.
- 1.17 HAZARDOUS MATERIALS:
- PRIOR TO STARTING OF DEMOLITION WORK, REFER TO THE "HAZARDOUS BUILDING MATERIALS ASSESSMENT" REPORT, SUPPLIED BY THE OWNER.
 - DESIGNATED SUBSTANCES SHALL BE HANDLED, REMOVED, TRANSPORTED AND DISPOSED OF IN ACCORDANCE WITH THE REQUIREMENTS OF THE FEDERAL, PROVINCIAL AND LOCAL AUTHORITIES HAVING JURISDICTION.
 - SHOULD ANY DESIGNATED SUBSTANCES BE ENCOUNTERED IN THE AREA OF CONSTRUCTION, ALL WORK SHALL STOP IMMEDIATELY, AND THE OWNER AND ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

SUBMITTALS

- 1 GENERAL:
- REFER TO INSTRUCTIONS TO TENDERERS AND SUPPLEMENTARY CONDITIONS FOR ADDITIONAL CONTRACTUAL INFORMATION CONCERNING SUBMITTALS.
 - REFER TO INDIVIDUAL SECTIONS OF SPECIFICATIONS FOR DETAILED INFORMATION ON SUBMITTAL REQUIREMENTS.
 - SCHEDULE SUBMISSIONS AT LEAST ONE (1) WEEK BEFORE DATES REVIEWED SUBMISSION WILL BE NEEDED.
 - DO NOT PROCEED WITH WORK UNTIL RELEVANT SUBMISSIONS ARE REVIEWED AND RETURNED.
 - SHOP DRAWINGS WHICH HAVE NOT BEEN REQUESTED WILL BE RETURNED TO THE CONTRACTOR WITH NO ACTION TAKEN BY THE ENGINEER. SHOP DRAWINGS TO WHICH THE ENGINEER'S STANDARD "RECEIVED" STAMP IS NOT AFFIXED, HAVE NOT BEEN REVIEWED BY THE ENGINEER.

2 IDENTIFICATION OF SUBMITTALS:

- ALL SHOP DRAWING SUBMITTALS TO BE IN ELECTRONIC FORM/FORMAT.
- IN THE TOP RIGHT HAND CORNER ON THE BODY OF EACH SUBMITTAL CLEARLY IDENTIFY THE PROJECT NAME, APPLICABLE SPECIFICATION SECTION NUMBER IN NMS FORMAT (EG. 19 91 23), DESCRIPTION OF CONTENTS (IE. PAINTING), THE OWNER'S NAME, ENGINEER'S NAME, CONTRACTOR'S NAME, SUB-CONTRACTOR'S NAME, SUPPLIER'S NAME, AND THE DATE OF SUBMISSION, ALL IN THAT ORDER, INDICATE ORIGIN AND INTENDED USE OF WORK.
- ACCOMPANY EACH SUBMITTAL WITH A TRANSMITTAL LETTER RECORDING THE INFORMATION LISTED ABOVE.
- PERMANENTLY IDENTIFY SAMPLES WITH THE INFORMATION LISTED ABOVE.
- FOR ELECTRONIC SUBMITTALS, PROVIDE ELECTRONIC FILE NAMES THAT IDENTIFY NAME OF PROJECT APPLICABLE SPECIFICATION SECTION NUMBER IN NMS FORMAT (EG. 09 91 23), DESCRIPTION OF CONTENTS WHERE APPLICABLE (EG. PAINTING) AND THE DATE (IE. YY/MM/DD), SEPARATING EACH FIELD WITH AN UNDERScore (EG. PROJECT NAME_DHS_PAINTING_099123.PDF).

3 DOCUMENTATION REQUIRED BEFORE CONSTRUCTION START:

- INSURANCE FORMS
- PERFORMANCE BOND WHERE REQUIRED.
- WSIB CLEARANCE CERTIFICATE FOR THE TYPE OF WORK REQUIRED.

4 STATUTORY DECLARATION:

- SUBMIT, WITH EACH MONTHLY PROGRESS CLAIM, A STATUTORY DECLARATION CERTIFYING THAT ALL PAYMENTS FOR ANY LIABILITY FOR WHICH OWNER MIGHT BECOME RESPONSIBLE IF UNPAID, HAVE BEEN PAID.
- STATUTORY DECLARATION SHALL BE A FORM CCDC 9A OR 9B.

5 WSIB CLEARANCE CERTIFICATES:

- SUBMIT WITH EACH MONTHLY PROGRESS CLAIM, WORKPLACE SAFETY AND INSURANCE BOARD CLEARANCE CERTIFICATE.

6 CONSTRUCTION SCHEDULE:

- CONFIRM CONSTRUCTION SCHEDULING WITH PROJECT MANAGER

7 SCHEDULE OF VALUES:

- CONFORM TO GC 5.2.4 AND RELEVANT SUPPLEMENTARY CONDITIONS.

8 SHOP DRAWINGS & PRODUCT DATA:

- SUBMIT SHOP DRAWINGS FOR OWNER'S AND ENGINEER'S REVIEW IN ACCORDANCE WITH GC-3.11.
- THE ENGINEER'S REVIEW IS FOR CONFORMITY TO THE DESIGN CONCEPT AND GENERAL ARRANGEMENT ONLY. THE ENGINEER'S REVIEW SHALL NOT RELIEVE THE CONTRACTOR, HIS SUB-CONTRACTORS AND SUPPLIERS OF THEIR RESPONSIBILITY FOR ERRORS OR OMISSIONS, OR FOR THE ENGINEER'S FAILURE TO OBSERVE ANY DEVIATIONS IN THE RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE.
- FOR NON-CUSTOM ITEMS OF EQUIPMENT, MANUFACTURER'S PUBLICATIONS OR CATALOGUE EXCERPTS ARE ACCEPTABLE IF SUITABLY ANNOTATED IN INK, CROSSING OUT ALL NON-APPLICABLE INFORMATION, AND CLEARLY NOTING MODEL NAME, MODEL NUMBER, AND PERFORMANCE/POWER CRITERIA.
- IN THE TOP RIGHT HAND CORNER ON THE BODY OF EACH SHOP DRAWING SUBMITTAL CLEARLY IDENTIFY THE PROJECT NAME, CONTRACTOR'S NAME, APPLICABLE SPECIFICATION SECTION NUMBER IN NMS FORMAT (EG. 09 91 23), DESCRIPTION OF MATERIALS AND ITEMS (EG. PAINTING), THE DATE OF SUBMISSION (YY/MM/DD) AND COMPLETE IDENTIFICATION OF ALL LOCATIONS IN WHICH MATERIALS/ITEMS ARE TO BE INSTALLED.
- ACCOMPANY SHOP DRAWINGS BY TRANSMITTAL LETTER CONTAINING INFORMATION OUTLINED ABOVE ALONG WITH THE NUMBER OF DRAWINGS IN THE SUBMISSION, THE TITLE OF EACH DRAWING, A DESCRIPTION OF EACH DRAWING AND OTHER PERTINENT DATA.
- FOR ALL ELECTRONIC SHOP DRAWING SUBMITTALS, PROVIDE ELECTRONIC FILE NAMES THAT IDENTIFY NAME OF PROJECT, APPLICABLE SPECIFICATION SECTION NUMBER IN NMS FORMAT, DESCRIPTION OF CONTENTS WHERE APPLICABLE (EG. METAL LOCKER) AND THE DATE (EG. YY/MM/DD), SEPARATING EACH FIELD WITH AN UNDERScore (EG. STLIHS_PAINTING_099123.PDF).
- SUBMITTED SHOP DRAWINGS WHICH HAVE NOT BEEN THOROUGHLY REVIEWED, COORDINATED, STAMPED, DATED AND SIGNED BY A RESPONSIBLE PERSON IN CONTRACTOR'S OFFICE WILL BE RETURNED WITHOUT REVIEW FOR RESUBMITTAL. SHOP DRAWINGS THAT ARE STAMPED, DATED AND SIGNED BY A RESPONSIBLE PERSON IN THE CONTRACTOR'S OFFICE BUT THAT CONTAIN ERRORS OR OVERSIGHTS THAT A THOROUGH REVIEW WOULD HAVE NOTED, AND/OR THAT DO NOT CONTAIN MARK-UPS THAT A THOROUGH REVIEW WOULD HAVE NOTED WILL BE RETURNED WITHOUT REVIEW FOR RESUBMITTAL.
- PRESENT SUBMITTALS IN SI METRIC UNITS; WHERE PRINTED MATERIAL IS PROVIDED IN IMPERIAL UNITS, CLEARLY CONVERT ALL VALUES TO METRIC.
- INDIVIDUAL SUBMISSIONS WILL NOT BE REVIEWED UNTIL ALL RELATED INFORMATION IS AVAILABLE. INCOMPLETE SUBMISSIONS WILL BE REJECTED AND RETURNED TO CONTRACTOR AND CONTRACTOR MAY BE CHARGED FOR ENGINEER'S TIME AND EXPENSE INVOLVED.
- DELETE PRODUCT DATA INFORMATION NOT RELEVANT TO PROJECT.
- SUPPLEMENT STANDARD INFORMATION TO PROVIDE DETAILS APPLICABLE TO PROJECT.

9 RECORD DRAWINGS:

- MAINTAIN CONTRACT DRAWINGS AT SITE OFFICE FOR RECORD PURPOSES. RECORD ACCURATELY DEVIATIONS FROM CONTRACT DOCUMENTS CAUSED BY SITE CONDITIONS, CHANGE ORDERS, SITE INSTRUCTIONS, AND ADDENDA. MARK IN RED INK. PROVIDE ONE TABLE FOR THIS SET TO BE PLACED ON.
- INCLUDE DEPTH OF VARIOUS ELEMENTS OF FOUNDATION, HORIZONTAL AND VERTICAL LOCATION OF NEW, MAINTAINED, RE-ROUTED AND ABANDONED UNDERGROUND UTILITIES CONCEALED IN CONSTRUCTION. ALL UNSEEN OR HIDDEN COMPONENTS MUST BE LOCATED BY DIMENSION.
- ENSURE THAT DRAWINGS ARE UP TO DATE AND IN GOOD CONDITION AT ALL TIMES.
- SUBMIT RECORD DRAWINGS IN ELECTRONIC CADD FORMAT AND IN HARD COPY TO ENGINEER JUST PRIOR TO SUBSTANTIAL COMPLETION.
- CONSULT MECHANICAL AND ELECTRICAL DIVISIONS FOR OTHER PARTICULAR REQUIREMENTS.

10 MANUALS OF INSTRUCTION AND MAINTENANCE:

- PRIOR TO SUBSTANTIAL PERFORMANCE, INSPECTION, SUBMIT TO ENGINEER, THREE (3) COPIES OF INSTRUCTION AND MAINTENANCE MANUALS AS FOLLOWS:
 - BIND DATA IN 215mm X 279mm, VINYL COVERED THREE - RING LOOSE - LEAF BINDERS.
 - ENCLOSE TITLE SHEET, LABELED "INSTRUCTION AND MAINTENANCE MANUAL" WITH PROJECT NAME, LIST OF CONTENTS, DATE AND NAME OF OWNER, ENGINEER, AND CONTRACTOR.
 - ORGANIZE CONTENTS INTO APPLICABLE SECTIONS OF WORK TO PARALLEL PROJECT SPECIFICATION BREAKDOWN. MARK EACH SECTION BY LABELED TABS PROTECTED WITH CELLULOID COVERS FASTENED TO HARD PAPER DIVIDING SHEETS.
- ALL OPERATION AND MAINTENANCE MANUALS TO BE SUBMITTED IN ENGLISH ONLY.
- NEATLY TYPE LISTS AND NOTES. USE CLEAR DRAWINGS, DIAGRAMS OR MANUFACTURER'S LITERATURE.

- 4 CONTENTS:
- AS CALLED FOR IN INDIVIDUAL SECTIONS OF THESE SPECIFICATIONS.
 - MAINTENANCE INSTRUCTIONS FOR EXTERIOR AND INTERIOR FLOOR, WALL, AND CEILING SURFACES AS WELL AS ALL INSTALLED FITTINGS AS PRINTED BY MANUFACTURER.
 - OPERATING AND MAINTENANCE INSTRUCTIONS FOR MECHANICAL AND ELECTRICAL EQUIPMENT, BOUND SEPARATELY.
 - COLOUR SCHEDULE; HARDWARE SCHEDULE.
 - COPIES OF ALL GUARANTEES AND WARRANTIES.
 - COMPLETE SET OF FINAL APPROVED SHOP DRAWINGS, BOUND SEPARATELY, INDICATING CORRECTIONS AND CHARGES MADE DURING FABRICATION AND INSTALLATION.
 - NAMES, ADDRESSES, AND PHONE NUMBERS OF SUB-CONTRACTORS AND SUPPLIERS.
 - WHMIS MANUAL, AS REQUIRED.

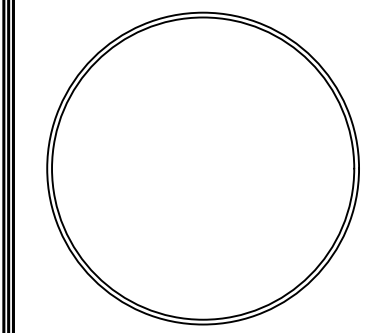
11 MAINTENANCE MANUALS:

- TURN OVER MATERIALS AND SPARE PARTS FOR ITEMS NOTED IN VARIOUS SECTIONS OF SPECIFICATIONS TO OWNER'S AUTHORIZED REPRESENTATIVE AND OBTAIN RECEIPT. SUBMIT RECEIPT TO ENGINEER. SUBMIT MATERIALS IN UNBROKEN CARTONS OR IF NOT AVAILABLE IN CARTONS, STRONGLY PACKED. IDENTIFY COLOUR, ROOM NUMBER, UNIT NUMBER OR AREA MATERIALS USED.

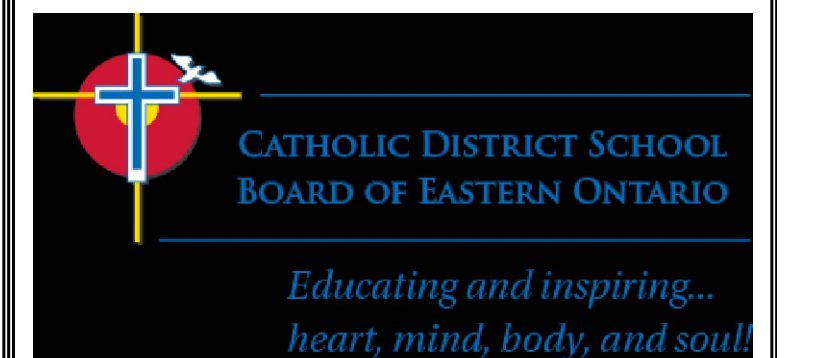
12 DOCUMENTS REQUIRED BEFORE SUBSTANTIAL PERFORMANCE:

- DOCUMENTS REQUIRED PRIOR TO SUBSTANTIAL PERFORMANCE INCLUDE:
 - RECORD DRAWINGS.
 - MANUALS OF INSTRUCTION AND MAINTENANCE INCLUDING:
 - WARRANTIES
 - FINAL APPROVED SHOP DRAWINGS
 - SCHEDULES
 - WHMIS MANUAL
 - MECHANICAL:
 - TESTING, ADJUSTING AND BALANCING (TAB) REPORTS
 - OPERATION AND MAINTENANCE MANUAL
 - DEMONSTRATION AND OPERATING AND MAINTENANCE INSTRUCTION
 - INDIVIDUAL EQUIPMENT CERTIFICATION AND TRAINING SESSION OUTLINED IN MECHANICAL SECTIONS.
 - ELECTRICAL:
 - OPERATION AND MAINTENANCE MANUAL
 - ELECTRICAL INSPECTION CERTIFICATE
 - F/A VERIFICATION CERTIFICATE (WHERE APPLICABLE)
 - DEMONSTRATION AND OPERATING AND MAINTENANCE INSTRUCTION. GENERAL INSTRUCTIONS SUBMITTALS

MORRIS
Engineering Ltd.
Brockville, Ontario 613-349-0555



No.	Date	REVISION
1	2018-06-06	FINAL REVIEW
0	2018-05-15	FOR REVIEW



Client:
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Kemptville, Ontario

Project:
ST. MARY CATHOLIC SCHOOL
4 Hawthorne Ave.
Carleton Place, Ontario

Drawing:
ARCHITECTURAL Notes
General Instructions
Submittals

Design:	M.MORRIS
Drawn:	A.M.
Date:	APR 2018
Project:	363
Scale:	AS SHOWN

A100

GENERAL MATERIALS

- 1 SUSPENDED CEILING GRID:
1 REFERENCES:
1 ASTM C 635, SPECIFICATIONS FOR THE MANUFACTURE, PERFORMANCE AND TESTING OF METAL SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANEL CEILINGS.
2 ASTM C 636, PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS.
2 DESIGN REQUIREMENTS - MAXIMUM DEFLECTION: 1/360th OF SPAN TO ASTM C 635 DEFLECTION TEST.
3 MATERIALS:
1 INTERMEDIATE DUTY SYSTEM TO ASTM C635.
2 BASIC MATERIALS FOR SUSPENSION SYSTEM: COMMERCIAL QUALITY COLD ROLLED STEEL MILL FINISHED.
3 SUSPENSION SYSTEM: FIRE RATED, TWO DIRECTIONAL EXPOSED TEE BAR GRID SYSTEM.
4 EXPOSED TEE BAR GRID COMPONENTS: SHOP PAINTED SATIN SHEEN WHITE. COMPONENTS DIE CUT. MAIN TEE WITH DOUBLE WEB, RECTANGULAR BULB AND 25 MM ROLLED CAP ON EXPOSED FACE. CROSS TEE WITH RECTANGULAR BULB, WEB EXTENDED TO FORM POSITIVE INTERLOCK WITH MAIN TEE WEBS, LOWER FLANGE EXTENDED AND OFFSET TO PROVIDE FLUSH INTERSECTION.
5 HANGER WIRE: GALVANIZED, SOFT-ANNEALED STEEL WIRE 3.6mm (1/8") DIA. FOR ACCESS TILE CEILINGS.
6 HANGER BRACKETS: PURPOSE MADE FOR PROPER CONNECTION.
7 ACCESSORIES: SPLICES, CLIPS, WIRE TIES, RETAINERS AND WALL MOLDING FLUSH, TO COMPLEMENT SUSPENSION SYSTEM COMPONENTS, AS RECOMMENDED BY SYSTEM MANUFACTURER.
4 INSTALLATION:
1 INSTALLATION IN ACCORDANCE WITH ASTM C636 EXCEPT WHERE SPECIFIED OTHERWISE.
2 INSTALL SUSPENSION SYSTEM TO MANUFACTURER'S INSTRUCTIONS.
3 DO NOT ERECT CEILING SUSPENSION SYSTEM UNTIL WORK ABOVE CEILING HAS BEEN INSPECTED BY ENGINEER.
4 SECURE HANGERS TO EXISTING OR NEW STRUCTURAL STEEL SUPPORTS.
5 INSTALL HANGERS SPACED AT MAXIMUM 1200mm (48") CENTRES AND WITHIN 150mm (6") FROM ENDS OF MAIN TEES.
6 LAY OUT CENTRE LINE OF CEILING BOTH WAYS, TO PROVIDE BALANCED BORDERS AT PERIMETER WITH BORDER UNITS NOT LESS THAN 50% OF STANDARD UNIT WIDTH, ALSO REFER TO REFLECTED CEILING PLAN.
7 ENSURE SUSPENSION SYSTEM IS CO-ORDINATED WITH LOCATION OF RELATED COMPONENTS.
8 INSTALL WALL MOLDING TO PROVIDE CORRECT CEILING HEIGHT.
9 COMPLETED SUSPENSION SYSTEM TO SUPPORT SUPER-IMPOSED LOADS, SUCH AS LIGHTING FIXTURES DIFFUSERS GRILLES AND SPEAKERS.
10 INTERLOCK ATTACH CROSS MEMBER TO MAIN RUNNER TO PROVIDE RIGID ASSEMBLY.
11 FINISHED CEILING SYSTEM TO BE SQUARE WITH ADJOINING WALLS AND LEVEL WITHIN 1:1000.
12 TOUCH UP SCRATCHES, ABRASIONS, VOIDS AND OTHER DEFECTS IN PAINTED SURFACES.

- 2 SUSPENDED CEILING TILE:
1 REFERENCES:
1 ASTM C 423-02A, STANDARD TEST METHOD FOR SOUND ABSORPTION AND SOUND ABSORPTION COEFFICIENTS BY THE REVERBERATION ROOM METHOD.
2 ASTM E 1264-98, STANDARD CLASSIFICATION FOR ACOUSTICAL CEILING PRODUCTS.
3 CAN/CGSB 92.1-M89, SOUND ABSORPTIVE PREFABRICATED ACOUSTICAL UNITS.
4 CAN/ULC-S102-2003, SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS AND ASSEMBLIES.
2 MATERIALS:
1 ACOUSTIC UNITS FOR SUSPENDED CEILING SYSTEM:
1 TO CAN/CGSB-92.1 ASTM E 1264.
2 610mm x 1220mm (24" x 48"), SQUARE EDGE, WHITE.
3 ACCEPTABLE PRODUCT: CELOTEX PBT 197 BY CERTAINTED.
3 INSTALLATION:
1 DO NOT INSTALL ACOUSTICAL PANELS AND TILES UNTIL WORK ABOVE CEILING HAS BEEN INSPECTED BY ENGINEER.
2 INSTALL ACOUSTICAL PANELS AND TILES IN CEILING SUSPENSION SYSTEM.
3 SCRIBE ACOUSTIC UNITS TO FIT ADJACENT WORK. BUTT JOINTS TIGHT, TERMINATE EDGES WITH MOLDING.
4 CO-ORDINATE CEILING WORK TO ACCOMMODATE COMPONENTS OF OTHER SECTIONS, SUCH AS LIGHT FIXTURES, SPEAKERS, SMOKE DETECTORS, TO BE BUILT INTO ACOUSTICAL CEILING COMPONENTS.

- 3 WALL REPAIR & PATCH:
1 REFERENCES:
1 MPI ARCHITECTURAL PAINTING SPECIFICATIONS MANUAL, 2004.
2 MATERIALS:
1 PAINT MANUFACTURERS: SEE PAINT SPECIFICATIONS.
2 PROVIDE PAINT MATERIALS FOR PAINT SYSTEMS FROM SINGLE MANUFACTURER.
3 CONFORM TO LATEST MPI REQUIREMENTS FOR INTERIOR PAINTING WORK INCLUDING PREPARATION AND PRIMING.
4 MATERIALS (PRIMERS, PAINTS, ETC.) IN ACCORDANCE WITH MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL "APPROVED PRODUCT" LIST - SEE SPECIFICATION DRAWINGS FOR ACCEPTABLE PRODUCT LIST.
5 COLOURS TO MATCH EXISTING.
3 INSTALLATION:
1 REPAIR AND PATCH OPENINGS IN PREPARATION FOR PAINT, WITH GROUT AND IN-FILL MATERIAL THAT MATCHES AND IS COMPATIBLE WITH SURROUNDING FINISHES.
2 CONCRETE HORIZONTAL SURFACES: FLOORS
1 FLOOR ENAMEL G5 (TRADITIONAL SEMI-GLOSS) FINISH.
2 CONCRETE VERTICAL SURFACES: WALLS AND CEILINGS.
1 G5 (TRADITIONAL SEMI GLOSS) FINISH.
3 CONCRETE BLOCK VERTICAL SURFACES: WALLS.
1 G5 (TRADITIONAL SEMI GLOSS) FINISH.
4 PLASTER AND GYPSUM BOARD: GYPSUM WALLBOARD, DRYWALL, "SHEET ROCK TYPE MATERIAL", AND TEXTURED FINISHES
1 G3 (EGGSHELL FINISH, OVER LATEX SEALER).

- 4 DRYWALL:
1 15.9mm ABUSE RESISTANT TYPE 'X' GYP. BOARD - FIBREROCK 15.9mm THICK, 1200mm WIDE x MAXIMUM PRACTICAL LENGTH, ENDS SQUARE CUT, EDGES BEVELED.

- 5 RUBBER BASE:
1 RUBBER BASE TRIM: DURACOVE OR JOHNSONITE 100mm BLACK OR TO MATCH EXISTING. CONTRACTOR TO CONFIRM TRIM COLOUR & PROFILE OF EXISTING TRIM TO PROPERLY MATCH. AS REQUIRED - REPLACE ENTIRE SECTIONS OF TRIM AT DEMOLITION AREAS TO PREVENT UNSIGHTLY JOINTS AND SEAMS.

MILLWORK

- GENERAL NOTES:
1. ENSURE THAT ALL WORK COMPLIES WITH LATEST REQUIREMENTS OF THE ONTARIO BUILDING CODE, CONSTRUCTION SAFETY ACT, LOCAL CODES AND BYLAWS, AND OTHER APPLICABLE REQUIREMENTS.
2. DO NOT SCALE MEASUREMENTS FROM THE DRAWINGS.
3. VERIFY ALL DIMENSIONS AND CONDITIONS ON SITE, REPORT DISCREPANCIES TO PROJECT MANAGER, AND ADJUST DRAWINGS AS REQ'D TO SUIT.
4. PROVIDE BLOCKING IN EXISTING STUD SPACES AS REQ'D FOR INSTALLATION OF ALL ITEMS, INCLUDING (BUT NOT LIMITED TO): SINKS, VANITIES, COUNTERTOPS, WASHROOM ACCESSORIES, BENCHES, SHELVES, MILLWORK AND EQUIPMENT. REINSTATE AFFECTED SURFACES TO SEAMLESS APPEARANCE USING CGC VHI BOARD, THICKNESS AS REQ'D TO SUIT. WHERE EXISTING SURFACES ARE AFFECTED, PREPARE AND REPAINT ENTIRE SURFACE T.M.E. IN ACCORDANCE WITH M.P.I. PRINTED BEST PRACTICES.
5. COORDINATE WORK w/ MECH. & ELEC. SUBTRADES AS REQ'D.
6. MILLWORK MAY SPECIFIED IN EITHER MAPLE OR OAK FINISH. CONFIRM WITH OWNER PRIOR TO START OF PROJECT.

- 1 MATERIALS:
1 HARDWOOD LUMBER: SELECT WHITE MAPLE SPECIES (CONFIRM WITH OWNER IF MAPLE OR OAK TO BE USED), MOISTURE CONTENT 6% OR LESS IN ACCORDANCE WITH:
1 NATIONAL HARDWOOD LUMBER ASSOCIATION (NHLA).
2 AWMAC CUSTOM GRADE, MOISTURE CONTENT AS SPECIFIED.
2 HARDWOOD PLYWOOD: TO CSA 0115 VENEER CORE, FLAT CUT SELECT WHITE MAPLE (CONFIRM WITH OWNER IF MAPLE OR OAK TO BE USED).
3 DOUGLAS FIR PLYWOOD: TO CSA 0121, STANDARD CONSTRUCTION G1S.
4 EDGE FINISHING:
1 HARDWOOD VENEERED PLYWOOD: 6mm THICK MATCHING HARDWOOD EDGE, GLUED & NAILED. AT TOP OF LOW BOOKSHELVES PROVIDE 19x25 HARDWOOD TO MATCH, GLUED AND NAILED.
5 LAMINATED PLASTIC FOR FLATWORK: TO CAN3-A172-M79, GRADE G.P., TYPE 1b, 1.6mm THICK, BASED ON FULL COLOUR RANGE WITH FURNITURE FINISH.
6 LAMINATE PLASTIC FOR POSTFORMING WORK: TO CAN3-A172-M79, GRADE PF, TYPE 2A, 1.25MM THICK, BASED ON FULL COLOUR RANGE WITH FURNITURE FINISH.
7 LAMINATED PLASTIC BACKING SHEET: GRADE BK, NOT LESS THAN 0.5mm THICK, SAME COLOUR AS FACE LAMINATE.
8 NAILS AND STAPLES: TO CSA B111.
9 WOOD SCREWS: STEEL PLAIN, TYPE AND SIZE TO SUIT APPLICATION.
10 SPLINES: WOOD.
11 SEALANT: CLEAR SILICONE.
12 LAMINATED PLASTIC ADHESIVE: UREA RESIN ADHESIVE TO CSA 0112.5:
1 TEST FOR ACCEPTABLE VOC EMISSIONS IN ACCORDANCE WITH ASTM D2369 AND ASTM D 2832
2 ACCEPTABLE MATERIALS: ECP-44.

- 2 MANUFACTURED UNITS:
1 CASEWORK:
1 FABRICATE CASEWORKS TO AWMAC CUSTOM GRADE.
2 FURRING, BLOCKING, NAILING STRIPS, GROUNDS AND ROUGH BUCKS, AND SLEEPERS:
1 S25 IS ACCEPTABLE FOR STRAPPING.
2 BOARD SIZES: "STANDARD" OR BETTER GRADE.
3 DIMENSION SIZES: "STANDARD" LIGHT FRAMING OR BETTER GRADE.
3 GABLES, END PANELS, DIVISIONS AND BOTTOMS: 19MM THICK BIRCH PLYWOOD CORE W/ HARDWOOD VENEER AND 6MM THICK HARDWOOD EDGING TO MATCH, GLUED AND NAILED.
4 LOW BOOK SHELF TOPS: 19 HARDWOOD PLYWOOD CORE WITH 19X25 HARDWOOD EDGING TO MATCH, GLUED AND NAILED. PROVIDE P-LAM FINISH TO TOP, TOP OF P-LAM FLUSH W/ TOP OF HARDWOOD NOSING.
5 BACKS: 6MM THICK PLYWOOD CORE W/ HARDWOOD VENEER FINISH.
6 SHELVING:
1 HARDWOOD VENEER ON 19MM THICK PLYWOOD CORE W/ 6MM THICK HARDWOOD TO MATCH ON ALL EDGES, GLUED AND NAILED.
2 PROVIDE ADJUSTABLE SHELVING WITH FULLY RECESSED PILASTER STRIPS UNLESS NOTED OTHERWISE, AND PROVIDE NUMBER OF CONCEALED SHELVES IN MILLWORK UPPERS AND LOWERS AS INDICATED IN SECTION FOR EACH BANK.
7 TOE KICK SUPPORT: SOLID CONTINUOUS 38X100 SELECT S/P/P BLOCKING RIPPED TO SUIT (REFER TO MILLWORK DRAWINGS FOR DIMENSIONS)
2 COUNTERS AND VANITIES:
1 POST FORMED LAMINATE, PROFILE TO MATCH BELANGER 2300.
3 CASEWORK DOORS:
1 FABRICATE DOORS TO AWMAC CUSTOM GRADE SUPPLEMENTED AS FOLLOWS: 19MM THICK HARDWOOD PLYWOOD CORE W/ HARDWOOD VENEER FINISH AND 6MM THICK HARDWOOD EDGING TO MATCH, GLUED AND NAILED.
4 HORIZONTAL DIVIDERS:
1 13MM THICK PLYWOOD CORE W/ HARDWOOD VENEER FINISH AND 6MM THICK HARDWOOD EDGING TO MATCH, GLUED AND NAILED.

- 3 HARDWARE LIST:
1 PULLS: D-TYPE, 100MM WIDE, 7.9mm DIA, 33MM PROJECTION, BRUSHED NICKEL FINISH.
2 CUPBOARD HINGES: FULLY CONCEALED 110DEG MODULAR OPENING, SELF CLOSING, HETTICH MODEL #742-T-42.
3 CUPBOARD AND DRAWER LOCKS: INSTALL AT ADMINISTRATION ROOMS & FACULTY OFFICES ONLY - TIMBERLINE #232.12.302 (HAFILE) OR BOARD APPROVED EQUIVALENT, KEY ALIKE IN EACH ROOM, FOUR KEYS PER ROOM, FINISH TO MATCH ADJACENT HARDWARE.
4 SURFACE BOLTS: HAFILE 900.17 SATIN NICKEL PLATED BRASS, ON ALL DOUBLE DOORS TO BE LOCKED.
5 GROMMETS: 50MM DIA. (PROVIDE GROMMETS FOR WIRE HOLES IN COUNTERTOPS AS DIRECTED BY PROJECT MANAGER).
6 PILASTER STRIPS: FULLY RECESSED, NICKEL PLATED STEEL WITH SHELF CLIPS TO MATCH.
7 PIANO HINGE: STAINLESS STEEL PIANO HINGE.

- 4 FABRICATION:
1 SET NAILS & COUNTERSINK SCREWS, APPLY WOOD FILLER (COLOUR TO MATCH HARDWOOD) TO INDENTATIONS, SAND SMOOTH & LEAVE READY TO RECEIVE FINISH.
2 SHOP INSTALL CABINET HARDWARE FOR DOORS, SHELVES AND DRAWERS. RECESS SHELF STANDARDS UNLESS NOTED OTHERWISE.
3 MAKE SHELVING FOR CABINETWORK ADJUSTABLE UNLESS NOTED OTHERWISE.
4 PROVIDE CUTOUTS FOR PLUMBING FIXTURES, INSERTS, APPLIANCES, OUTLET BOXES AND OTHER FIXTURES.
5 SHOP ASSEMBLE WORK FOR DELIVERY TO SITE IN SIZE EASILY HANDLED AND TO ENSURE PASSAGE THROUGH BUILDING OPENINGS.
6 OBTAIN GOVERNING DIMENSIONS BEFORE FABRICATING ITEMS WHICH ARE TO ACCOMMODATE OR ABUT APPLIANCES, EQUIPMENT AND OTHER MATERIALS.
7 ENSURE ADJACENT PARTS OF CONTINUOUS LAMINATE WORK MATCH IN COLOUR AND PATTERN. VENEER LAMINATED PLASTIC TO CORE MATERIAL IN ACCORDANCE WITH ADHESIVE MFR'S PRINTED INSTRUCTIONS. ENSURE CORE AND LAMINATE PROFILES COINCIDE TO PROVIDE CONTINUOUS SUPPORT AND BOND OVER ENTIRE SURFACE.
9 WHERE P LAM FINISH IS REQ'D, USE STRAIGHT SELF-EDGING LAMINATE STRIP FOR FLATWORK TO COVER EXPOSED EDGE OF CORE MATERIAL. CHAMFER EXPOSED EDGES UNIFORMLY AT APPROX. 20 DEGREES. DO NOT MITRE LAMINATE EDGES.

- .10 APPLY LAMINATE BACKING SHEET TO REVERSE SIDE OF CORE OF PLASTIC LAMINATE SHEET.
.11 FOR HARDWOOD VENEER PLYWOOD OR MDF, APPLY 6MM HARDWOOD EDGING.

- 5 FINISHING:
1 SET NAILS, APPLY WOOD FILLER (COLOUR TO MATCH HARDWOOD) TO OPEN GRAIN AND INDENTATIONS, SAND SMOOTH, AND LEAVE READY TO RECEIVE FINISH.
2 EXCEPT AS NOTED OTHERWISE, ALL HARDWOOD AND HARDWOOD VENEER TO RECEIVE TWO COATS OF WATER-CLEAR GLOSS POLYURETHANE. AND ONE TOP COAT OF WATER-CLEAR SATIN POLYURETHANE FINISH, PREPARED AND INSTALLED IN ACCORDANCE W/ M.P.I.'S PRINTED BEST PRACTICES.
3 FINISH WOOD & WOOD VENEERED MILLWORK IN PUBLIC CORRIDORS WITH ULC-RATED CRYSTAL-CLEAR CLASS "B" INTUMESCENT FIRE RETARDANT VARNISH SYSTEM SUITABLE FOR ITEMS SUBJECT TO CONSTANT SCUFFING &/OR FREQUENT WASHING ("FLAME CONTROL NO. 130" VARNISH OVERCOAT OVER "FLAME CONTROL NO. 129 BASE COAT" BY FLAME CONTROL COATINGS, LLC, OR BOARD APPROVED ALTERNATE). APPLY FINISHING SYSTEM IN ACCORDANCE W/ MFR'S PRINTED BEST PRACTICES AS REQ'D TO ACHIEVE FIRE RETARDANT RATINGS.
4 FOR TOP OF HORIZONTAL HARDWOOD AND HARDWOOD VENEERED SURFACES (SHELVES, COUNTERTOPS, BENCHES, OTHER THAN THOSE LISTED IN 3 ABOVE) PROVIDE TWO COATS EASTERN RESINS CORP. GLAZE SHIELD HP 100% SOLIDS CLEAR EPOXY COATING (SUPPLIER RANDALL PAINTS).
5 ALL HARDWOOD AND HARDWOOD VENEER TO HAVE CONCEALED FASTENINGS WHERE POSSIBLE, OTHERWISE RECESS SCREWS AND BOLTS AND PLUG HOLES WITH MIN. 6MM THICK WOOD PLUGS (SPECIES, COLOUR, GRAIN AND GRAIN ORIENTATION TO MATCH HARDWOOD). SAND PLUGGED AREAS SMOOTH TO RECEIVE FINISH. WHERE FINISHING NAILS ARE USED, INSET NAILS AT REGULAR INTERVALS IN STRAIGHT LINES FOR NEAT AND EVEN APPEARANCE. APPLY FILLER (COLOUR TO MATCH WOOD) AND SAND SMOOTH READY TO RECEIVE FINISH. FACTORY FINISH ALL HARDWOOD AND HARDWOOD VENEER ON ALL SURFACES, AND LIMIT ON-SITE WORK TO TOUCH-UPS ONLY.

- 6 EXECUTION:
1 DO ARCHITECTURAL WOODWORK TO AWMAC QUALITY STANDARDS UNLESS SPECIFIED OTHERWISE.
2 INSTALL PREFINISHED MILLWORK POSITIONED ACCURATELY, LEVEL, PLUMB AND STRAIGHT.
3 FASTEN AND ANCHOR MILLWORK SECURELY. PROVIDE HEAVY DUTY FIXTURE ATTACHMENTS FOR WALL MOUNTED CABINETS.
4 USE DRAW BOLTS IN COUNTERTOP JOINTS.
5 SCRIBE AND CUT MILLWORK AS REQ'D TO FIT ABUTTING SURFACES, TO FIT TIGHTLY INTO RECESSES, AND TO ACCOMMODATE PIPING, COLUMNS, FIXTURES, OUTLETS AND/OR OTHER PROJECTING, INTERSECTING OR PENETRATING OBJECTS/SURFACES.
6 APPLY WATER RESISTANT BUILDING PAPER BITUMINOUS COATING OVER WOOD FRAMING MEMBERS IN CONTACT WITH MASONRY OR CEMENTITIOUS CONSTRUCTION.
7 FIT HARDWARE ACCURATELY AND SECURELY IN ACCORDANCE WITH MFR'S PRINTED INSTRUCTIONS.

- 7 CLEANING:
1 CLEAN AFTER INSTALLATION TO REMOVE CONSTRUCTION DEBRIS & ACCUMULATED ENVIRONMENTAL DIRT.
2 CLEAN IN ACCORDANCE WITH NEMA LD 3, ANNEX B.
3 REMOVE ALL TRACES OF PRIMER, PAINT, CAULKING, EPOXY & FILLER MATERIALS. CLEAN DOORS AND FRAMES. CLEAN WORK AREA, AND ACCESS TO WORK AREA.
4 PROTECT MILLWORK AND CABINET WORK FROM DAMAGE UNTIL FINAL INSPECTION.

METAL FABRICATIONS

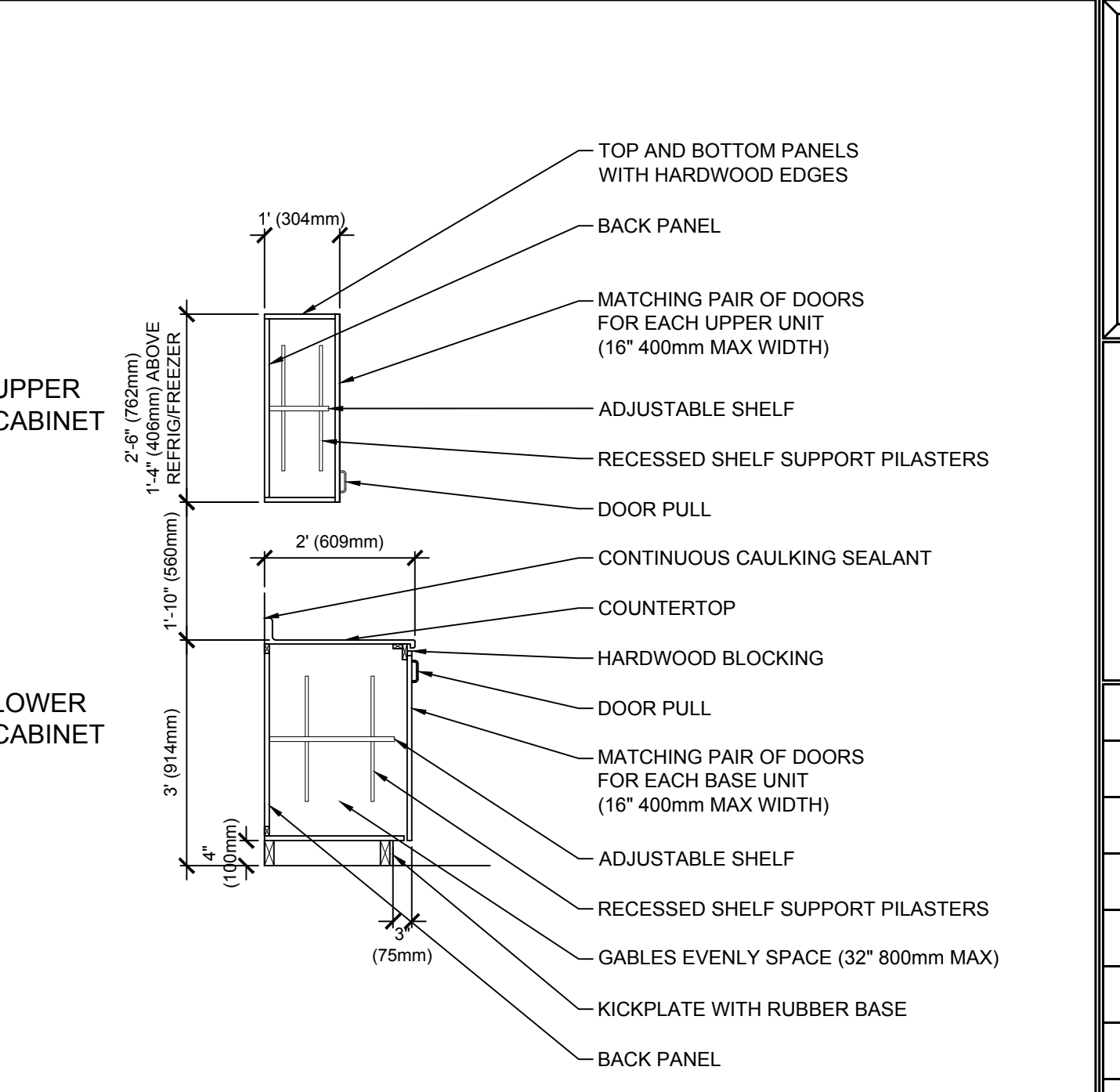
- GENERAL NOTES:
1. SUBMIT SHOP DRAWINGS OF METAL FABRICATIONS INDICATING MATERIALS, CORE THICKNESSES, FINISHES, CONNECTIONS, JOINTS, METHODS OF ANCHORAGE, NUMBER OF ANCHORS, SUPPORTS, REINFORCEMENT, DETAILS AND ACCESSORIES.
2. SUBMIT TO PROJECT MANAGER ONE SAMPLE OF EACH METAL FABRICATION REQUIRED FOR THE PROJECT FOR REVIEW AND COMMENT BEFORE FABRICATING THE BALANCE OF ITEMS REQUIRED.

- 1 MATERIALS:
1 STEEL SECTIONS AND PLATES: TO CAN/CSA-G40.20/G40.21, GRADE 300W;
2 WELDING MATERIALS: TO CSA W59;
3 WELDING ELECTRODES: TO CSA W48 SERIES;
4 BOLTS AND ANCHOR BOLTS: TO ASTM A 307;

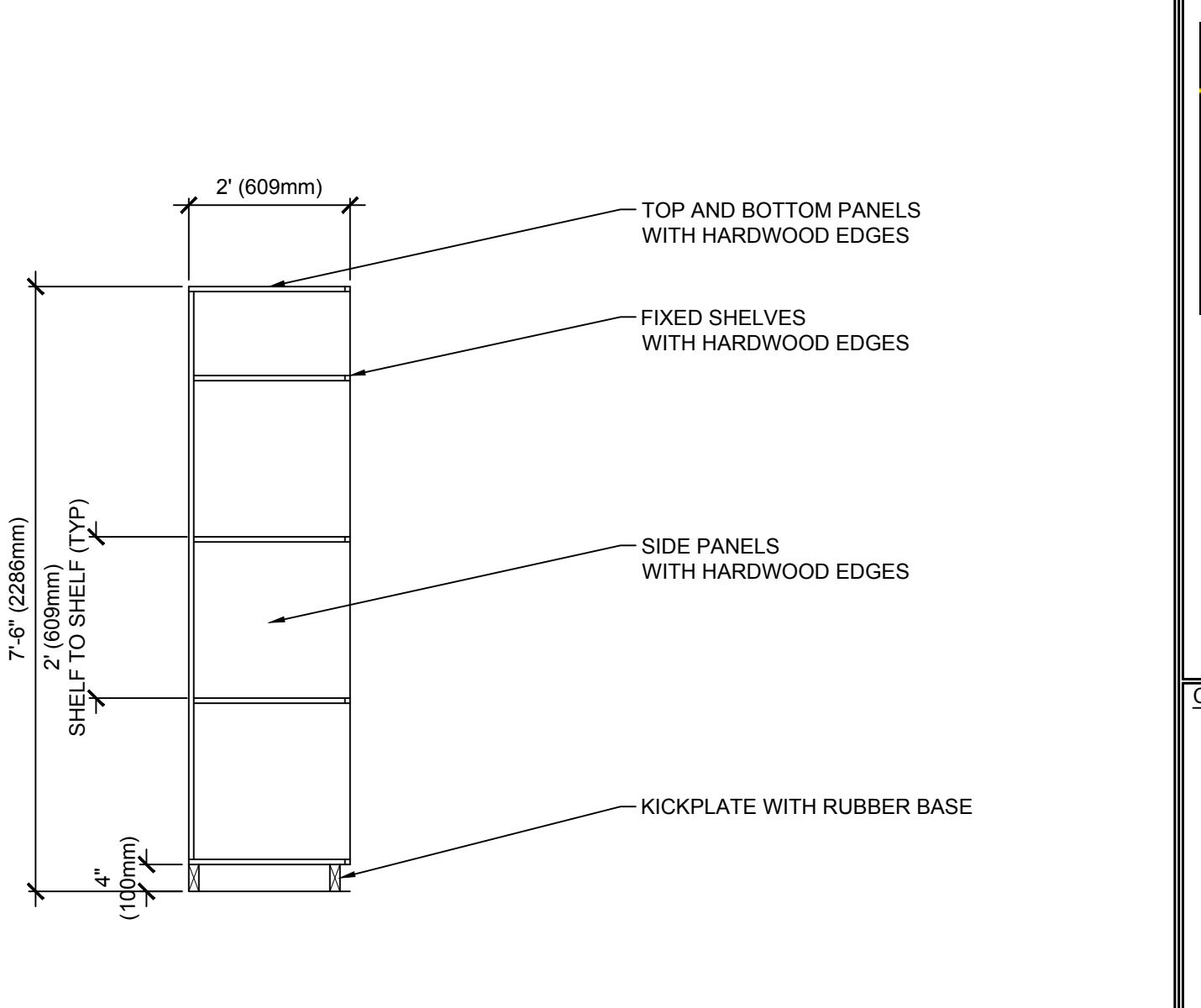
- 2 FABRICATION:
1 FABRICATE WORK SQUARE, TRUE, STRAIGHT AND ACCURATELY SIZED, W/ CLOSELY FITTING JOINTS.
2 ENSURE SECURE INSTALLATION OF FABRICATIONS
3 USE SELF-TAPPING SHAKE-PROOF FLAT HEADED SCREWS ON ITEMS REQUIRING ASSEMBLY BY SCREWS UNLESS NOTED OTHERWISE
4 WHERE POSSIBLE, FIT AND SHOP ASSEMBLE WORK, READY FOR ERECTION.
5 ENSURE EXPOSED WELDS ARE CONTINUOUS FOR LENGTH OF EACH JOINT. FILE OR GRIND EXPOSED WELDS SMOOTH AND FLUSH. REMOVE ALL WELD SPATTER. PREPARE METAL FABRICATIONS TO SMOOTH AND FLAT SURFACES WITH SEAMLESS APPEARANCES.

- 3 FINISHES:
1 APPLY ONE SHOP COAT OF PRIMER TO METAL ITEMS (PRIMER TO CISC/CPMA 2075 QUICK DRYING PRIMER, LOW VOC)
2 USE PRIMER UNADULTERATED, AS PREPARED BY MANUFACTURER. PAINT ON DRY SURFACES, FREE FROM RUST, SCALE, GREASE. DO NOT PAINT WHEN TEMPERATURE IS LOWER THAN 7 DEGREES CELSIUS.
3 CONFORM TO LATEST MPI REQUIREMENTS FOR INTERIOR PAINTING WORK INCLUDING PREPARATION AND PRIMING
4 MATERIALS (PRIMERS, PAINTS, COATINGS, FILLERS, SOLVENTS, THINNERS, ETC) SHALL BE IN ACCORDANCE WITH MPI PAINTING SPECIFICATION MANUAL "APPROVED PRODUCT" LISTING AND SHALL BE FROM A SINGLE MANUFACTURER FOR EACH SYSTEM USED.
5 WHERE NOTED, PROVIDE SEMI-GLOSS POWDER COATED FINISH, COLOUR TO LATER DETERMINATION BY PROJECT MANAGER, OTHERWISE, FINISH METAL FABRICATIONS IN COLOUR SELECTED BY PROJECT MANAGER WITH MPI INT 5.1E ALKYD G3 (EGG'S SHELL); PRIMER COAT OVER SHOP PRIMER (MPI#76); ICI PAINTS (CANADA) DEVOE MULTI-PURPOSE TANK & STRUCTURAL PRIMER 4160-1000, TWO TOP COATS (MPI#151); ICI PAINTS (CANADA) GLIDDEN ULTRA INTERIOR ALKYD EGGSHELL, 95010.
6 SHOP APPLY PAINTS BY SPRAY TO METAL FABRICATIONS PRIOR TO BRINGING METAL FABRICATIONS TO SITE. FIELD TOUCH UP FABRICATIONS AS REQ'D AFTER INSTALLATION. WHERE TOUCH UP IS REQ'D, REFINISH ENTIRE METAL FABRICATION.

- 4 EXECUTION:
1 DO WELDING WORK IN ACCORDANCE WITH CSA W59 UNLESS NOTED OTHERWISE
2 CONSTRUCT MILLWORK SUPPORTS AND ACCESSORIES FOR ITEMS SUCH AS VANITY SUPPORTS, SHELF SUPPORTS, SEAT SUPPORTS, COAT HOOKS, AND SIMILAR ITEMS AS DETAILED.
3 ERECT METAL FABRICATIONS SQUARE, PLUMB, STRAIGHT AND TRUE, ACCURATELY FITTED WITH TIGHT JOINTS AND INTERSECTIONS
4 EXPOSED FASTENING DEVICES TO MATCH THE FINISH AND BE COMPATIBLE WITH THE MATERIAL THROUGH WHICH THEY PASS



1 UPPER & LOWER CABINETS
A101 SCALE: 1/2" = 1"



2 SHELVING
A101 SCALE: 1/2" = 1"

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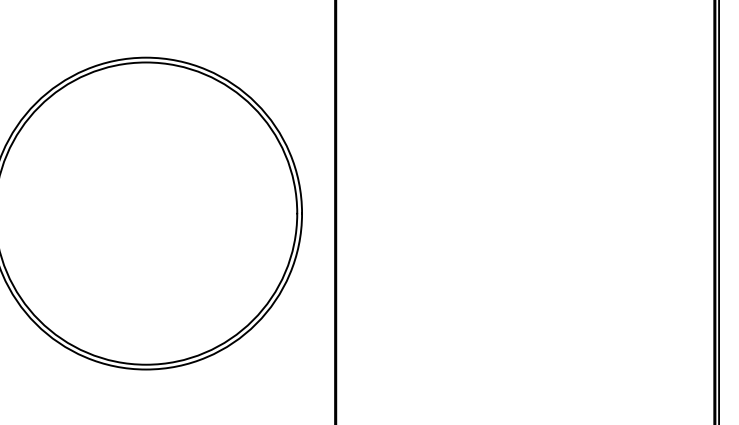


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CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO. Educating and inspiring... heart, mind, body, and soul!

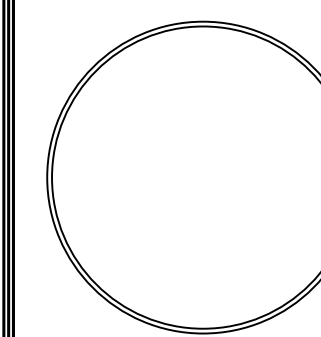
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO Kemptville, Ontario

ST. MARY CATHOLIC SCHOOL 4 Hawthorne Ave. Carleton Place, Ontario

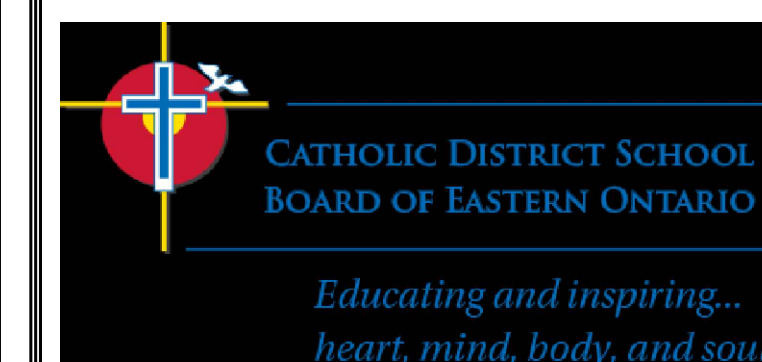
ARCHITECTURAL Notes General Materials Millwork, Metal Fab.

Design: M.MORRIS. Drawn: A.M. Date: APR 2018. Project: 363. Scale: AS SHOWN.

A101



No.	Date	REVISION
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0	2018-05-15	FOR REVIEW



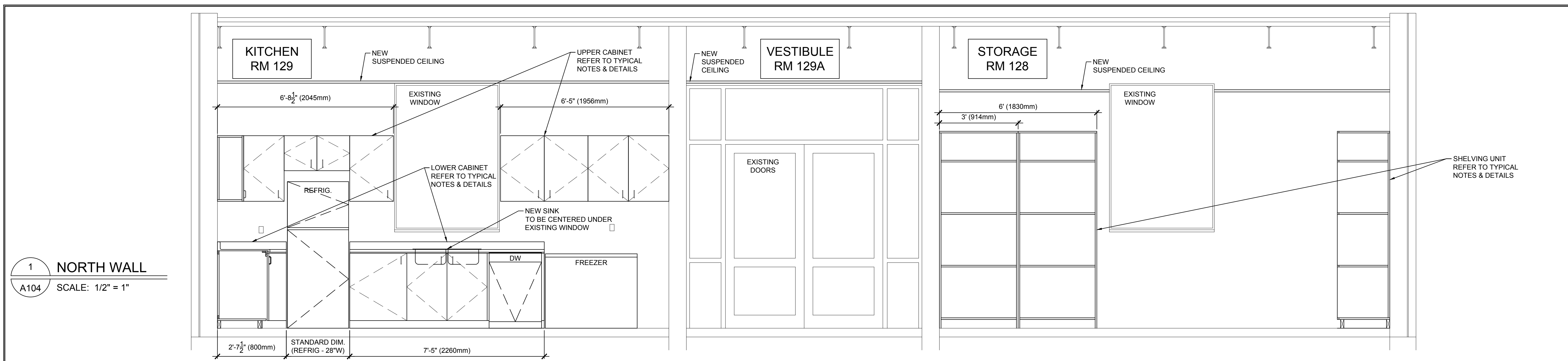
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CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Kemptville, Ontario

Project:
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4 Hawthorne Ave.
Carleton Place, Ontario

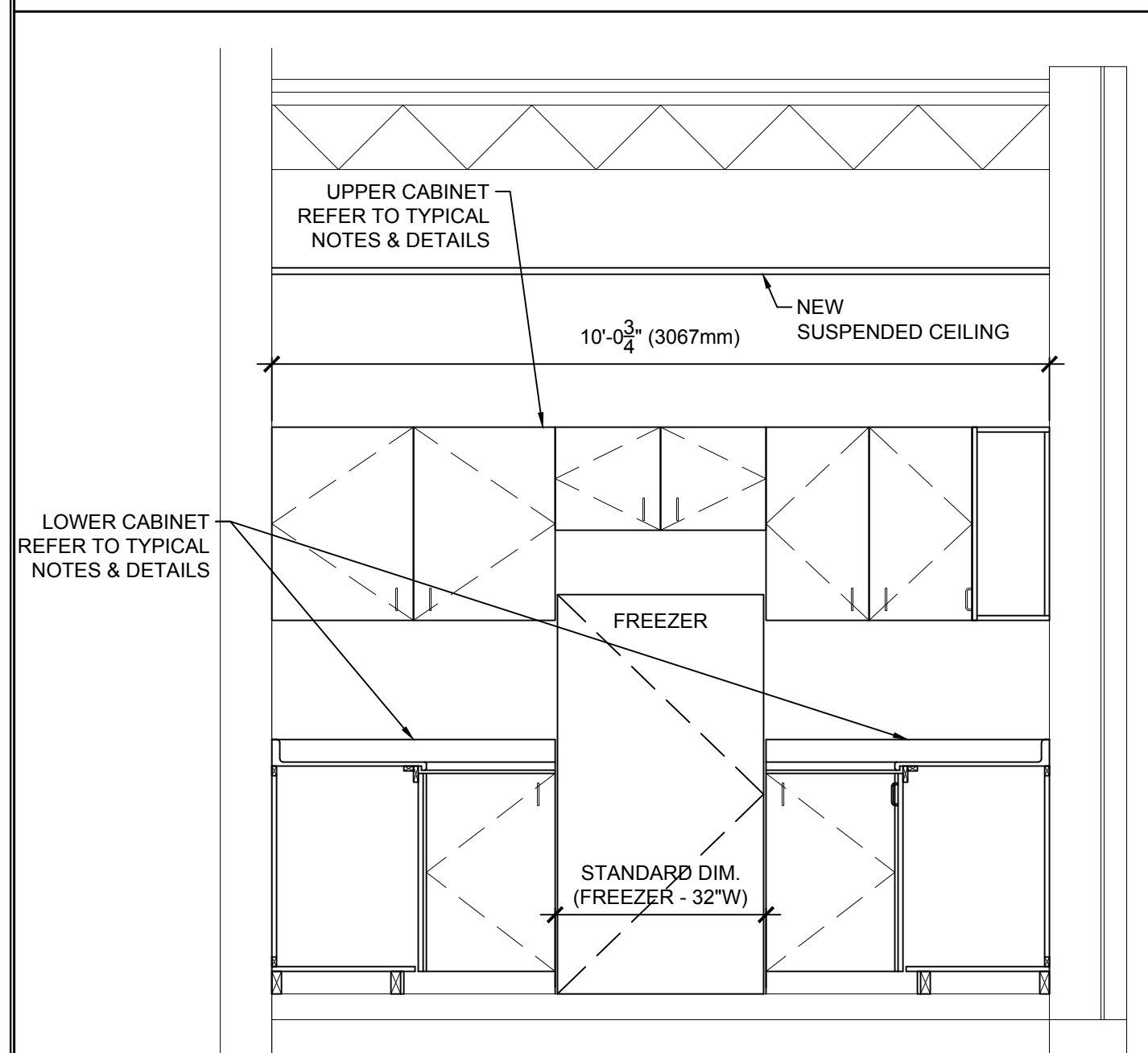
Drawing:
ARCHITECTURAL Elevations

Design:	M.MORRIS
Drawn:	A.M.
Date:	APR 2018
Project:	363
Scale:	AS SHOWN

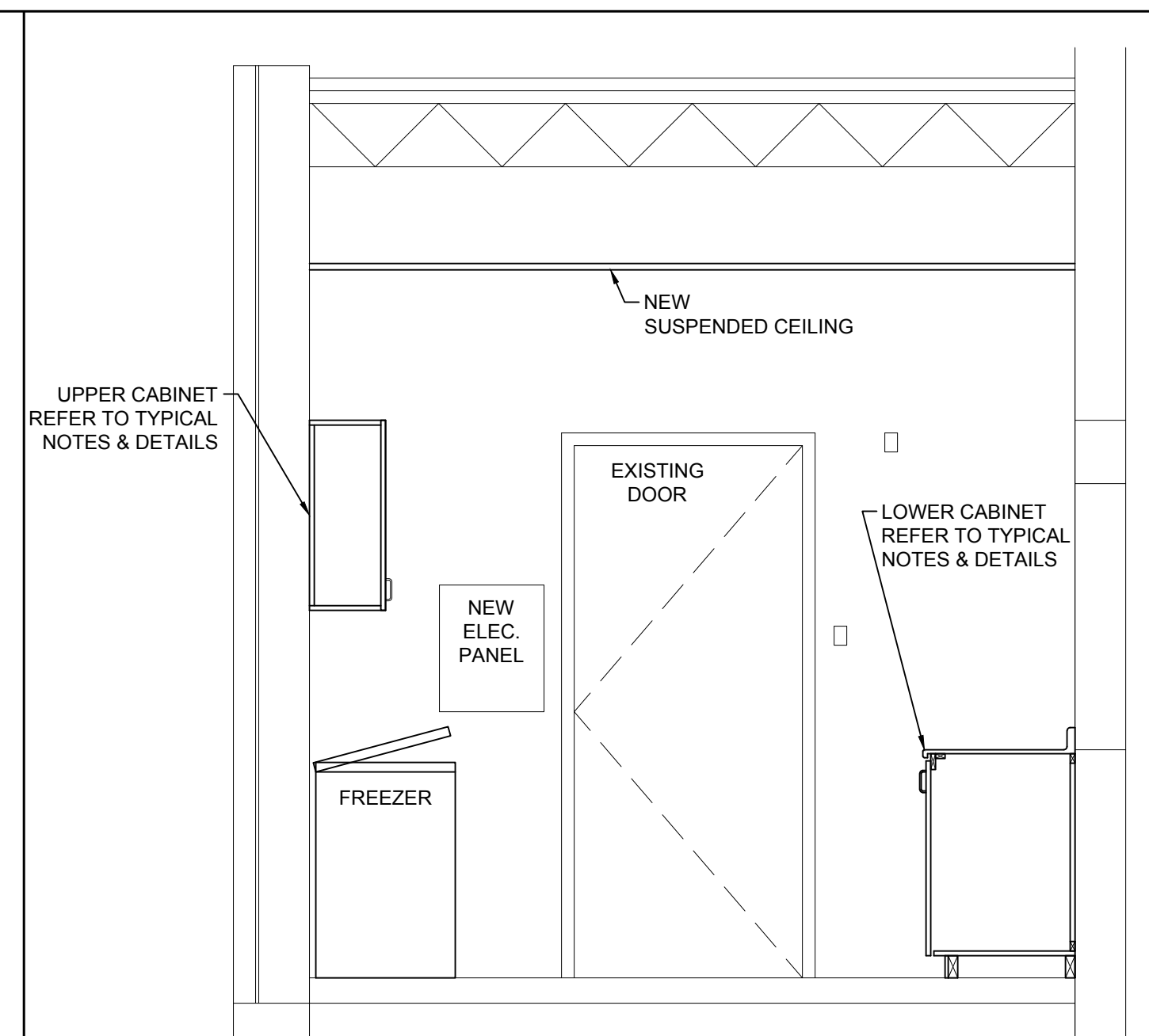
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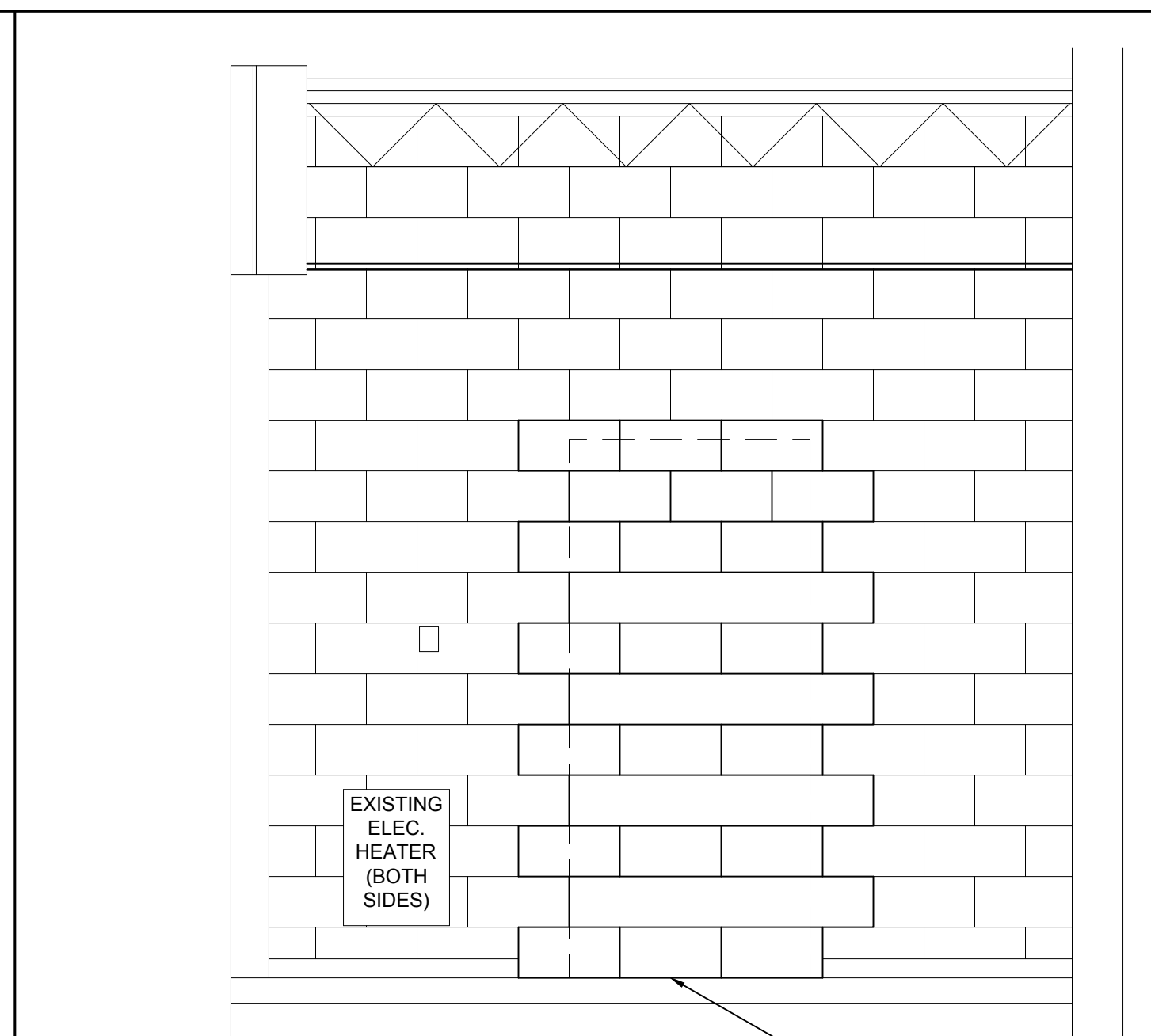
1 NORTH WALL
SCALE: 1/2" = 1"



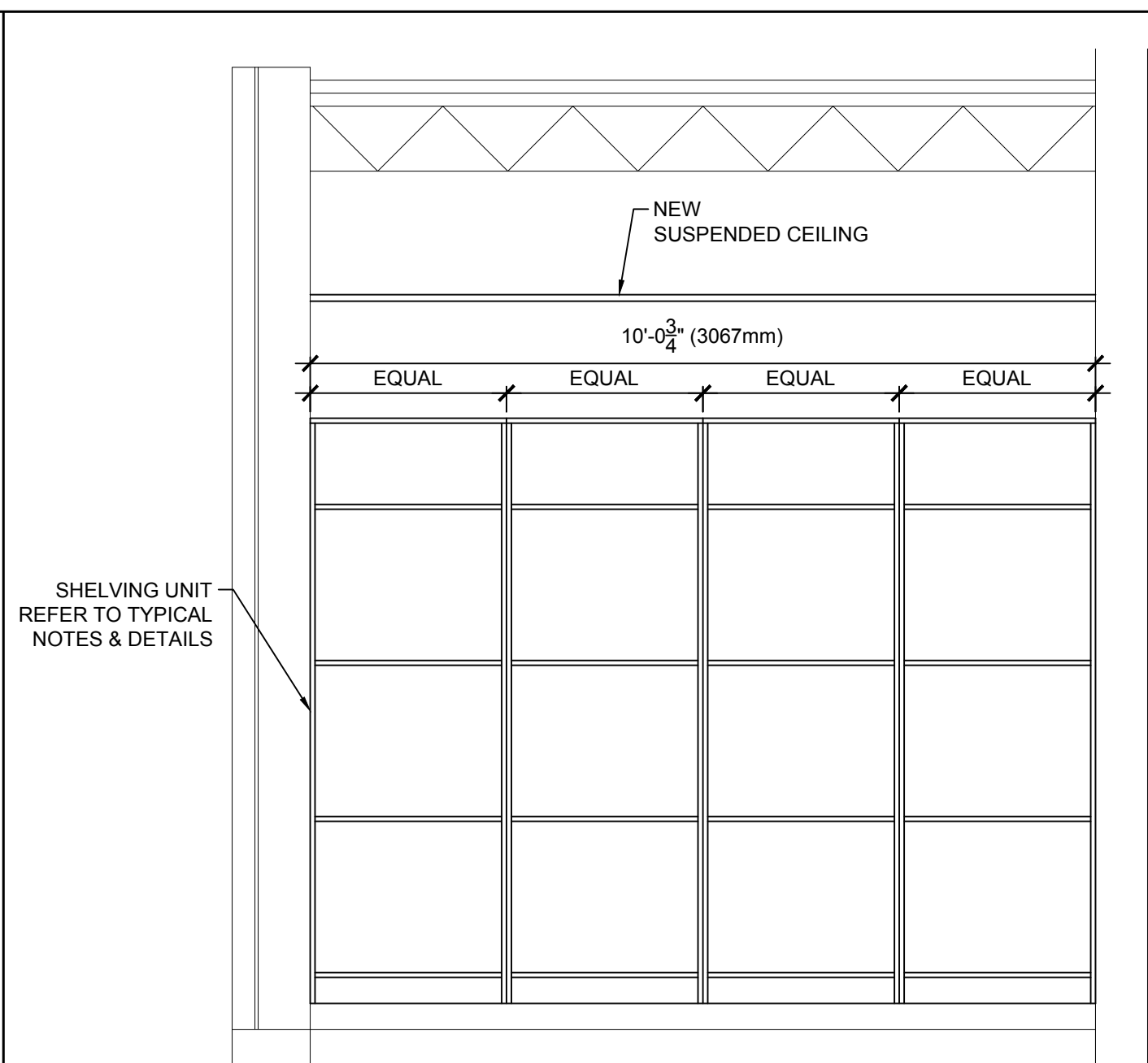
3 KITCHEN WEST WALL
SCALE: 1/2" = 1"



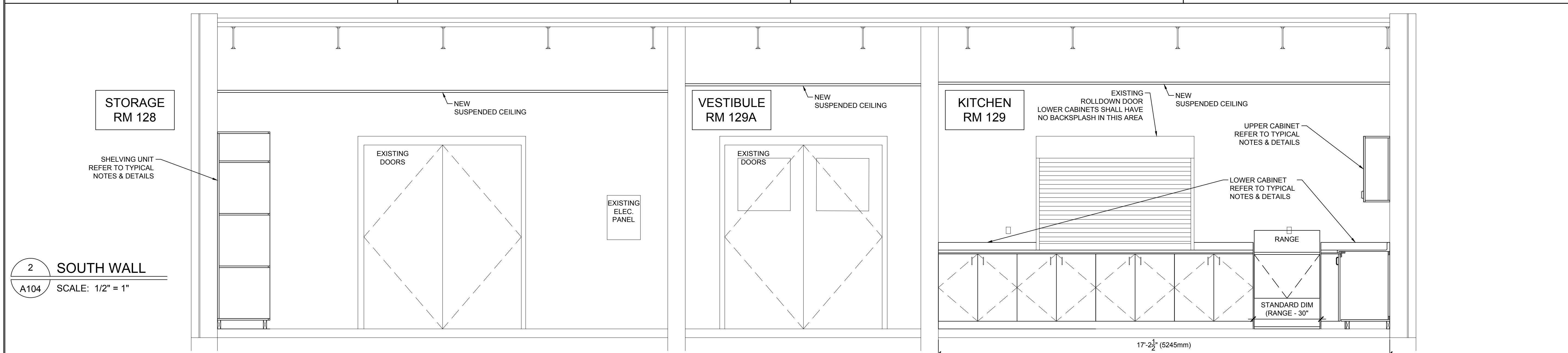
4 KITCHEN EAST WALL
SCALE: 1/2" = 1"



5 VESTIBULE EAST WALL
SCALE: 1/2" = 1"



6 STORAGE RM EAST WALL
SCALE: 1/2" = 1"



2 SOUTH WALL
SCALE: 1/2" = 1"

ELECTRICAL NOTES

ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS FOR THIS PROJECT.

1 GENERAL:

- .1 CONFORM WITH APPLICABLE REQUIREMENTS OF THE MINISTRY OF LABOUR, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- .2 DO COMPLETE INSTALLATION IN ACCORDANCE WITH THE FOLLOWING: ONTARIO ELECTRICAL SAFETY CODE; ELECTRICAL SAFETY AUTHORITY.
- .3 SUBMIT TO ELECTRICAL SAFETY AUTHORITY NECESSARY NUMBER OF DRAWINGS AND SPECIFICATIONS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- .4 COORDINATE AND OBTAIN ELECTRICAL SERVICE LAYOUT FROM THE SUPPLY AUTHORITY.
- .5 PAY ALL ELECTRICAL PERMIT AND INSPECTION FEES.
- .6 GROUND COMPLETE SYSTEM IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND ELECTRICAL SAFETY AUTHORITY.
- .7 IDENTIFICATION AND LABELLING:
 - .1 IDENTIFY ELECTRICAL EQUIPMENT WITH LAMICOID NAMEPLATES, INCLUDING AMPERAGE, VOLTAGE, PHASE AND POWER SOURCE.
 - .2 PROVIDE TYPEWRITTEN PANEL DIRECTORIES.
 - .3 PROVIDE ADHESIVE LABEL ON ALL SWITCH, RECEPTACLE AND DEVICE COVER PLATES INDICATING SUPPLY CIRCUIT DESIGNATION.
- .8 PROVIDE THREE COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- .9 CLEAN ALL ELECTRICAL SYSTEMS AT PROJECT COMPLETION.
- .10 COMPLETE AS-BUILT DRAWINGS SHOWING ALL CHANGES AS WORK PROGRESSES.

2 CONTRACTOR QUALIFICATIONS:

- .1 ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE "TRADES QUALIFICATION AND APPRENTICESHIP ACT" AND REGULATIONS, BY PERSONS WHO HOLD THE FOLLOWING CERTIFICATES OF QUALIFICATION (AS APPLICABLE):
 - .1 ELECTRICIAN: CONSTRUCTION & MAINTENANCE.
- .2 ALL FIRE ALARM SYSTEM WORK SHALL BE PERFORMED BY PERSONS WHO HOLD ELECTRICIAN QUALIFICATIONS (ABOVE), AND IN ADDITION, WHO HOLD THE FOLLOWING CURRENT REGISTRATION WITH THE CANADIAN FIRE ALARM ASSOCIATION (CFAA):
 - .1 FIRE ALARM TECHNICIAN.

3 EXISTING FACILITIES AND DEMOLITION:

- .1 LOCATE AND PROTECT ALL EXISTING EXTERIOR SITE SERVICES.
- .2 RETAIN AND PROTECT ALL EXISTING INTERIOR SERVICES AND BUILDING FABRIC. MAKE GOOD ANY AND ALL DAMAGE RESULTING FROM THIS WORK.
- .3 CONNECTIONS TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER.
- .4 EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO NORMAL USE OF THE EXISTING BUILDING.

4 FIXTURES AND EQUIPMENT:

- .1 PROVIDE SHOP DRAWINGS AND PRODUCT DATA FOR ALL ELECTRICAL FIXTURES AND EQUIPMENT FOR APPROVAL, PRIOR TO PROCUREMENT.
- .2 INSTALL ALL ELECTRICAL FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- .3 EQUIPMENT AND MATERIAL TO BE CSA CERTIFIED. WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT CSA CERTIFIED, OBTAIN SPECIAL APPROVAL FROM ELECTRICAL SAFETY AUTHORITY.

5 EQUIPMENT SUPPLIED BY OTHERS:

- .1 MAKE ALL ELECTRICAL SERVICE CONNECTIONS TO EQUIPMENT SUPPLIED BY OTHERS.
- .2 CONFIRM ALL SERVICE CONNECTIONS WITH MANUFACTURER AND SUPPLIER, PRIOR TO INSTALLATION. THIS SHALL INCLUDE ALL CONNECTION SIZES, LOCATIONS AND DETAILS, AND SHALL TAKE INTO ACCOUNT EQUIPMENT CLEARANCES AND INSTALLATION REQUIREMENTS.

6 CONDUITS:

- .1 RIGID GALVANIZED STEEL, WITH THREADED FITTINGS, WHERE SUBJECT TO MECHANICAL INJURY, IN SERVICE AREAS ONLY.
- .2 ELECTRICAL METALLIC TUBING (EMT), HOT DIPPED GALVANIZED STEEL, WITH THREADED CONNECTORS AND COUPLINGS, WHERE NOT SUBJECT TO MECHANICAL INJURY, IN SERVICE AREAS ONLY.
- .3 RIGID PVC CONDUIT BELOW FLOOR AND IN CORROSIVE AREAS.

7 WIRES AND CABLE:

- .1 VOLTAGE DROP:
 - .1 FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD.
 - .2 BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.
- .2 BUILDING WIRES:
 - .1 COMMERCIAL PROJECTS - IN CONDUIT SYSTEMS TO BE STRANDED COPPER CONDUCTORS FOR 10 AWG AND LARGER, MINIMUM SIZE 12 AWG, TYPE RW90.
- .3 BUILDING WIRES IN CONCEALED LOCATIONS TO BE COPPER, MINIMUM SIZE 12 AWG, TYPE AC90.
- .4 ALL WIRING SHALL BE CONCEALED IN WALLS AND CEILINGS, UNLESS OTHERWISE NOTED OR APPROVED. SURFACE-MOUNTED WIRING IS NOT PERMITTED.

8 SERVICE EQUIPMENT:

- .1 ELECTRICAL SERVICE EQUIPMENT, PANELBOARDS AND DISCONNECT SWITCHES SHALL BE PRODUCT OF ONE MANUFACTURER THROUGHOUT PROJECT - SQUARE D TO MATCH EXISTING.
- .2 CIRCUIT BREAKERS SHALL BE BOLT-ON TYPE.

9 WIRING DEVICES:

- .1 WIRING DEVICES OF ONE MANUFACTURER THROUGHOUT PROJECT - HUBBELL OR LEVITON.
- .2 COMMERCIAL PROJECTS:
 - .1 HEAVY DUTY SWITCHES, 20A/120V, SINGLE POLE, AND THREE-WAY, AS APPLICABLE. COLOUR SELECTED BY OWNER.
 - .2 EXTRA HARD USE DUPLEX RECEPTACLES, CSA TYPE 5-15 R, 15A/125V. COLOUR SELECTED BY OWNER.
 - .3 STAINLESS STEEL COVER PLATES.

10 LIGHTING:

- .1 GENERAL LIGHTING:
 - .1 SUPPORT ALL LIGHTING IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND BULLETINS.
 - .2 LIGHT FIXTURES SUPPORTED BY SUSPENDED CEILING SYSTEMS SHALL HAVE ADDITIONAL SUPPORT TO BUILDING STRUCTURE IN ACCORDANCE WITH ONTARIO ELECTRICAL SAFETY CODE BULLETIN #30-4-11.

11 FIRE ALARM SYSTEM:

- .1 FIRE ALARM SYSTEM SHALL BE ALTERED IN ACCORDANCE WITH CAN/ULC-5524, "INSTALLATION OF FIRE ALARM SYSTEMS".
- .2 FIRE ALARM SYSTEM SHALL BE VERIFIED IN ACCORDANCE WITH CAN/ULC-5537, "VERIFICATION OF FIRE ALARM SYSTEMS".

12 FIRE PROTECTION:

- .1 ALL CABLING AND CONDUIT SHALL BE TIGHTLY FITTED AND SEALED WITH FIRESTOPPING MATERIAL AT ALL FIRE SEPARATIONS AND FIRE-RATED MEMBRANES.
- .2 PLENUMS (OBC 3.6.4.3): ALL MATERIALS WITHIN THE PLENUM SHALL A FLAME-SPREAD RATING NOT MORE THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION NOT MORE THAN 50.

13 EARTHQUAKE LOAD:

- .1 ALL ELECTRICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE EARTHQUAKE LOAD AND EFFECTS REQUIRED BY THE ONTARIO BUILDING CODE.
- .2 ELECTRICAL ELEMENTS AND COMPONENTS (FIXTURES, EQUIPMENT, CONDUIT, ETC.), AND THEIR CONNECTIONS TO THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SMACNA/ANSI SEISMIC RESTRAINT MANUAL OR OTHER GUIDELINE REFERENCED IN THE ONTARIO BUILDING CODE.

14 EQUIPMENT SUPPORT:

- .1 ALL ELECTRICAL EQUIPMENT, CONDUIT, WIRING, LIGHTING, DEVICES, AND RELATED ITEMS SHALL BE SECURELY SUPPORTED, ATTACHED AND FASTENED TO BUILDING STRUCTURE.
- .2 HANGERS AND SUPPORTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MSS STANDARD SP-58, PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, MANUFACTURE, SELECTION, APPLICATION, AND INSTALLATION.

15 COORDINATION:

- .1 INFORMATION INVOLVING ACCURATE DIMENSIONING OF THE BUILDING SHALL BE TAKEN FROM SITE BY CONTRACTOR.
- .2 DRAWINGS ARE IN DIAGRAMMATIC FORM, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR EQUIPMENT. COORDINATE PHYSICAL LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ALLOW FOR ANY ADDITIONAL CONDUIT, WIRING, FITTINGS, SUPPORTS, ETC., IN ORDER TO AVOID INTERFERENCE AND FACILITATE THE WORK.
- .3 CONTRACTOR TO MAKE ANY NECESSARY MODIFICATIONS OR ADDITIONS, WITHOUT CHARGE, TO ACCOMMODATE SITE CONDITIONS AND COORDINATION.
- .4 COORDINATE AND VERIFY ALL ELECTRICAL BRANCH CIRCUIT REQUIREMENTS FOR EQUIPMENT SUPPLIED BY OTHERS, PRIOR TO MATERIAL PROCUREMENT OR INSTALLATION.
- .5 PROVIDE ALL WIRING TO ALL MECHANICAL EQUIPMENT, INCLUDING WIRING BELOW 50V. COORDINATE ALL MECHANICAL EQUIPMENT WIRING WITH MECHANICAL TRADES.
- .6 ALL DEVICE AND OUTLET LOCATIONS SHALL BE CAREFULLY COORDINATED WITH THE GENERAL CONTRACTOR OR OWNER, TO ACCOMMODATE ALL FEATURES, INCLUDING PLUMBING FIXTURES, EQUIPMENT AND MILLWORK.

16 START-UP, COMMISSIONING AND TRAINING:

- .1 START-UP AND COMMISSION THE FOLLOWING SYSTEMS:
 - .1 MAIN ELECTRICAL SERVICE EQUIPMENT;
 - .2 GENERAL LIGHTING;
 - .3 FIRE ALARM.
- .2 PERFORM SYSTEMATIC TESTS, PROCEDURES AND CHECKS ON SYSTEMS, AS FOLLOWS:
 - .1 TO VERIFY OPERATION IN ACCORDANCE WITH CONTRACT DOCUMENTS, DESIGN CRITERIA AND INTENT, AND MANUFACTURER'S REQUIREMENTS;
 - .2 TO ENSURE APPROPRIATE DOCUMENTATION IS PROVIDED;
 - .3 TO EFFECTIVELY TRAIN BUILDING OPERATIONAL STAFF.
- .3 SYSTEMS ARE TO BE OPERATED AT FULL CAPACITY, WITH CORRECTION OF ALL DEFICIENCIES AND ADJUSTMENTS TO MEET OPTIMUM PERFORMANCE.
- .4 PROVIDE WRITTEN REPORT AT END OF COMMISSIONING OUTLINING EQUIPMENT OPERATIONAL CONDITIONS AND PARAMETERS.

LIGHTING CONTROL SCHEDULE

UNIT	DESCRIPTION	ELECTRICAL	ACCEPTABLE PRODUCT	NOTES
	MOTION SENSOR WALL SWITCH		LEVITON #OSSMT-MAW	PASSIVE INFRARED (PIR) AND ULTRASONIC (U/S) 120 VAC

LIGHT FIXTURE SCHEDULE

UNIT	DESCRIPTION	NOM. DIM'N (m)	LAMP	LENS	BALLAST	WATTS	MEAN LUMENS	VOLTAGE	ACCEPTABLE PRODUCT	NOTES
F1	LED RECESSED	W - 24 L - 48	LED	ACRYLIC HINGED	DRIVER	39	4000	120	BJ TAKE #BLR	MOTION SENSOR
OR APPROVED EQUAL										

ELECTRICAL PANEL 'P-1'

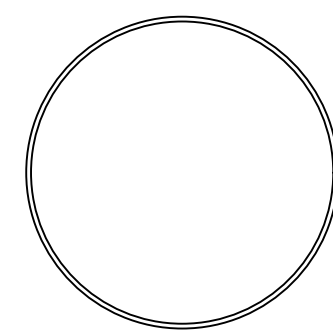
Location:	KITCHEN	Mounting:	RECESSED
Rated Amp:	100	Mains Amp:	100
Voltage:	120/208	Phase:	3

Load		Description		Breaker		Breaker		Description		Load	
Watts	Description	Amp	Pole	No.	Amp	No.	Pole	Amp	Description	Description	Watts
500	LIGHTS	15	1	1	2	1	15	LIGHTS			500
250	AC.GFI RECEPT-COUNTER	20	1	3	4	1	20	RECEPT-COUNTER	AC.GFI		250
250	AC.GFI RECEPT-COUNTER	20	1	5	6	1	20	RECEPT-COUNTER	AC.GFI		250
250	AC.GFI RECEPT-COUNTER	20	1	7	8	1	20	RECEPT-COUNTER	AC.GFI		250
				9	10						
				11	12						
				13	14						
				15	16						
250	DISHWASHER	15	1	17	18						
500	FREEZER	15	1	19	20	1	15	WATER HEATER			1500
500	FREEZER	15	1	21	22	2	40	RANGE			6000
500	REFRIGERATOR	15	1	23	24						
3	KW							CONNECTED LOAD	KW		8.75
								TOTAL CONNECTED LOAD	KW		11.75

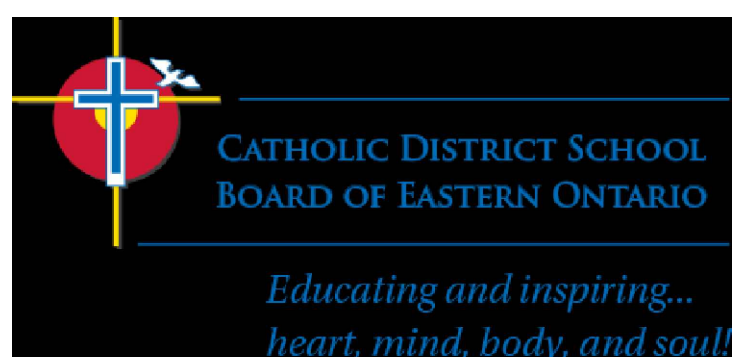
NOTES:

- 1. DEVICE QUANTITIES ARE APPROXIMATE. DEVICES SHOWN ON FLOOR PLANS SHALL SUPERSEDE.
- 2. PROVIDE NEW PANEL LABEL AND TYPEWRITTEN CIRCUITING LEGEND.
- 3. EQUIPMENT SHALL BE SQUARE D.
- 4. PANEL SHALL BE COMPLETE WITH BOLT-ON BREAKERS, LOCKABLE DOOR, TRIM.
- 5. ELECTRICAL REQUIREMENTS FOR EQUIPMENT SUPPLIED BY OTHERS ARE APPROXIMATE. COORDINATE ALL EQUIPMENT WIRING WITH OTHER TRADES.

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 Brockville, Ontario 613-349-0555



No.	Date	REVISION
1	2018-06-06	FINAL REVIEW
0	2018-05-11	FOR REVIEW



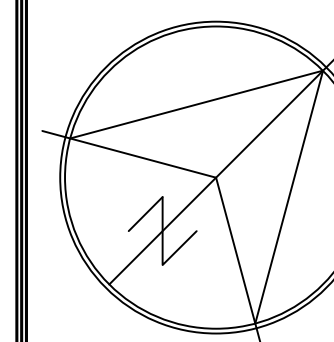
Client:
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
 Kemptville, Ontario

Project:
ST. MARY CATHOLIC SCHOOL
 4 Hawthorne Ave.
 Carleton Place, Ontario

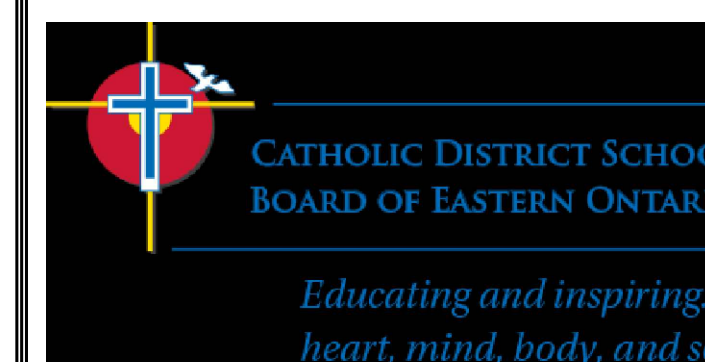
Drawing:
ELECTRICAL
Notes & Schedules

Design:	M.MORRIS
Drawn:	A.M.
Date:	APR 2018
Project:	363
Scale:	AS SHOWN

E100



No.	Date	REVISION
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0	2018-05-11	FOR REVIEW



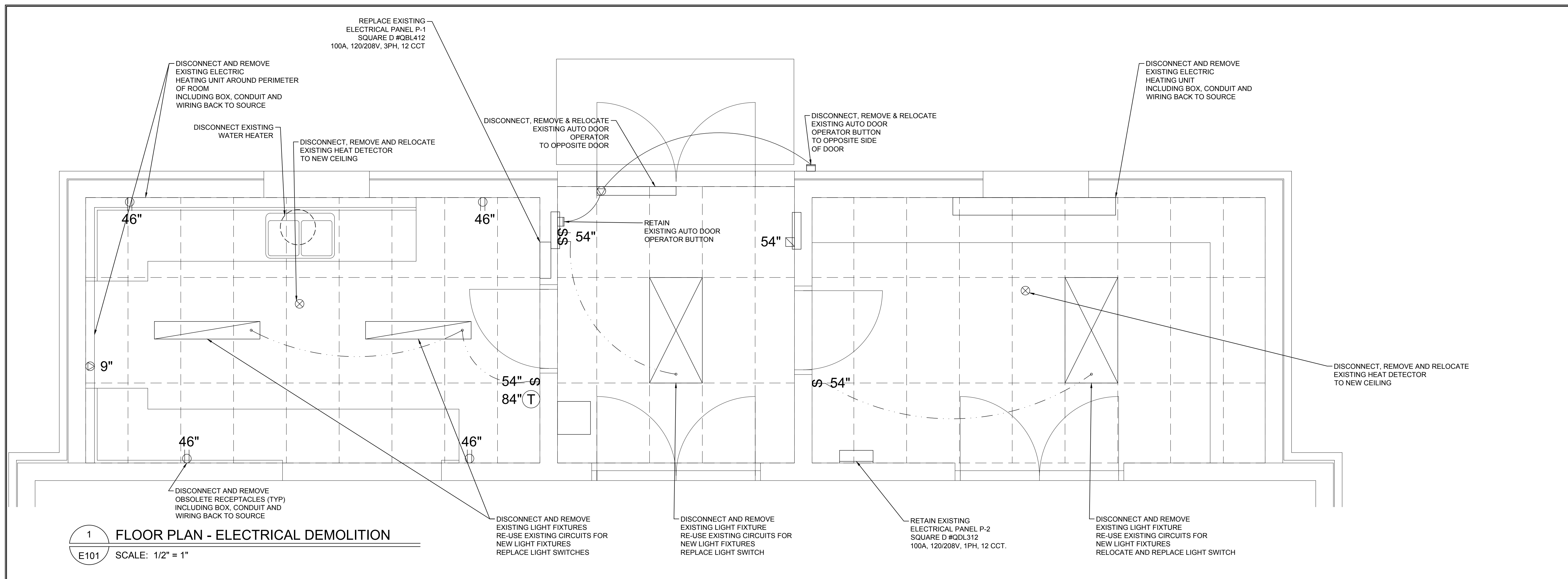
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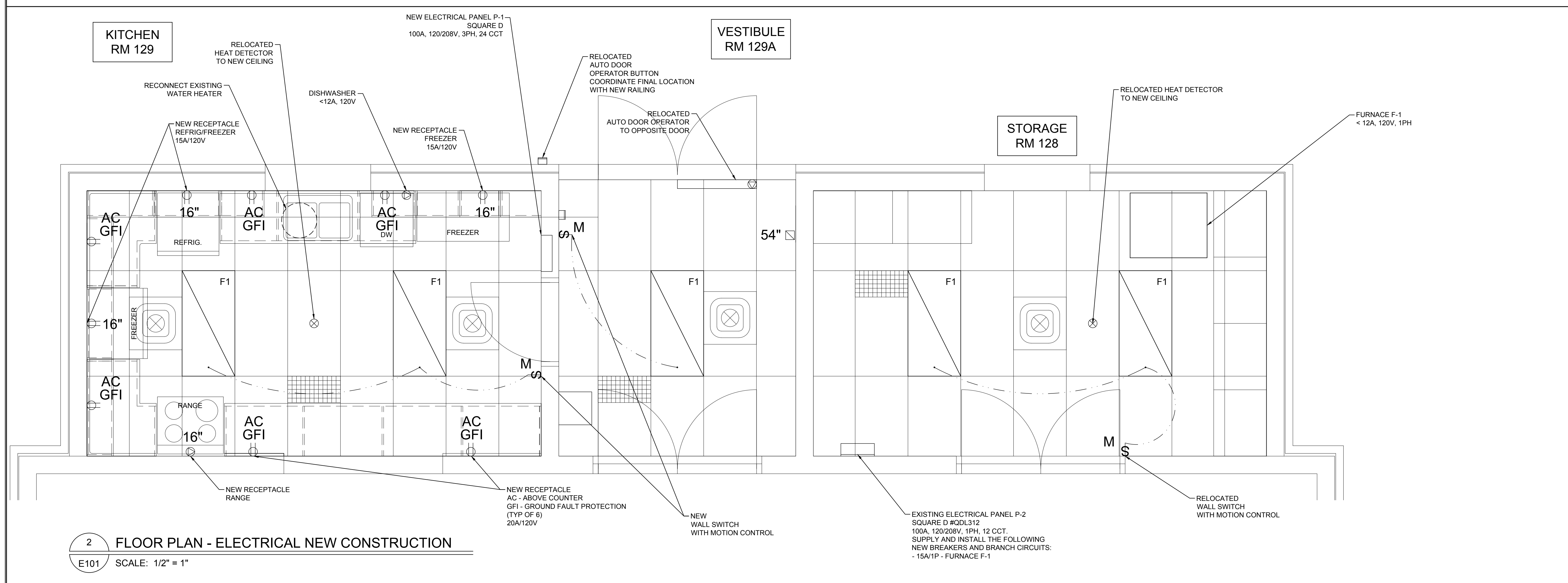
Design:
ELECTRICAL Floor Plans Demolition & New Construction

Design: M.MORRIS
Drawn: A.M.
Date: APR 2018
Project: 363
Scale: AS SHOWN

E101



1 FLOOR PLAN - ELECTRICAL DEMOLITION
E101 SCALE: 1/2" = 1"



2 FLOOR PLAN - ELECTRICAL NEW CONSTRUCTION
E101 SCALE: 1/2" = 1"

MECHANICAL NOTES

MECHANICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS FOR THIS PROJECT.

1 GENERAL:

- CONFORM WITH APPLICABLE REQUIREMENTS OF THE MINISTRY OF LABOUR, AND THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS.
- DO COMPLETE INSTALLATION IN ACCORDANCE WITH THE FOLLOWING: ONTARIO BUILDING CODE (OBC); NATURAL GAS AND PROPANE INSTALLATION CODE (GAS CODE); ASHRAE; SMACNA; NFPA; ALL OTHER RELEVANT CODES AND STANDARDS, AS APPLICABLE.
- OBTAIN ALL PERMITS REQUIRED FOR THE INSTALLATION OF MECHANICAL TRADES WORK, ARRANGE FOR INSPECTIONS AND TESTS, AND PAY ALL FEES AND COSTS FOR THE PERMITS, INSPECTIONS AND FEES. OBTAIN PERMITS IMMEDIATELY AFTER NOTIFICATION OF AWARD OF CONTRACT.
- PROVIDE THREE COPIES OF COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS FOR EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- CLEAN ALL MECHANICAL SYSTEMS AT PROJECT COMPLETION.
- COMPLETE AS-BUILT DRAWINGS SHOWING ALL CHANGES AS WORK PROGRESSES.

2 CONTRACTOR QUALIFICATIONS:

- ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE "TRADE QUALIFICATION AND APPRENTICESHIP ACT" AND REGULATIONS, BY PERSONS WHO HOLD THE FOLLOWING CERTIFICATES OF QUALIFICATION (AS APPLICABLE):
 - PLUMBER;
 - REFRIGERATION & AIR CONDITIONING SYSTEMS MECHANIC;
 - RESIDENTIAL AIR CONDITIONING SYSTEMS MECHANIC;
 - SHEET METAL WORKER;
- ALL FUELS-RELATED WORK TO BE CARRIED OUT IN ACCORDANCE WITH TSSA REQUIREMENTS AND ONTARIO REGULATION 215/01, "FUEL INDUSTRY CERTIFICATES" BY PERSONS WHO HOLD THE APPROPRIATE CERTIFICATES FOR THE WORK BEING PERFORMED.

3 EXISTING FACILITIES AND DEMOLITION:

- LOCATE AND PROTECT ALL EXISTING EXTERIOR SITE SERVICES.
- RETAIN AND PROTECT ALL EXISTING INTERIOR SERVICES AND BUILDING FABRIC. MAKE GOOD ANY AND ALL DAMAGE RESULTING FROM THIS WORK.
- CONNECTIONS TO EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER.
- EXECUTE WORK WITH LEAST POSSIBLE INTERFERENCE OR DISTURBANCE TO NORMAL USE OF THE EXISTING BUILDING.

4 FIXTURES AND EQUIPMENT:

- PROVIDE SHOP DRAWINGS AND PRODUCT DATA FOR ALL MECHANICAL FIXTURES AND EQUIPMENT FOR APPROVAL, PRIOR TO PROCUREMENT.
- INSTALL ALL MECHANICAL FIXTURES AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- LOCATE ALL EQUIPMENT WITH CLEARANCES, AS REQUIRED BY THE MANUFACTURER, THE FUEL CODES, AND ALL OTHER CODES AND REGULATIONS, INCLUDING THE FOLLOWING CLEARANCES:
 - TO PERMIT PROPER EQUIPMENT OPERATION;
 - TO PERMIT SUFFICIENT AIRFLOW AROUND EQUIPMENT;
 - FOR EQUIPMENT SERVICE;
 - SUFFICIENT DISTANCE FROM COMBUSTIBLE MATERIAL;
 - WITH SUFFICIENT VENT CLEARANCES;
 - SUFFICIENT DISTANCE FROM ROOF EDGES OR OTHER HAZARDS.

5 WATER SERVICE AND WATER SUPPLY PIPING:

- ABOVE GROUND: COPPER TUBE, HARD DRAWN, TYPE L. CAN. OR US MANUFACTURE, INCLUDING FITTINGS. LEAD-FREE SOLDER.
- ALL PIPING SHALL BE CONCEALED IN CABINETS UNLESS OTHERWISE NOTED.
- ISOLATE ALL EQUIPMENT, FIXTURES AND BRANCHES WITH VALVES.
- TEST WATER SYSTEM AT 1 1/2 TIMES SYSTEM OPERATING PRESSURE OR MINIMUM 860 KPA, WHICHEVER IS GREATER. TEST PRESSURE AND TIMEFRAME SHALL BE AS REQUIRED BY OBC 7.3.7.2.

6 DRAINAGE, WASTE AND VENT PIPING:

- ABOVE GROUND: COPPER, TYPE DWV.
- PROVIDE CLEANOUTS AS REQUIRED BY THE ONTARIO BUILDING CODE.
- VENT COMPLETE PLUMBING SYSTEM IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

7 NATURAL GAS PIPING:

- STEEL PIPE, SCHEDULE 40, SEAMLESS, SCREWED FITTINGS.
- SLOPE PIPING DOWN IN DIRECTION OF FLOW TO LOW POINTS.
- TEST SYSTEM IN ACCORDANCE WITH NATURAL GAS AND PROPANE INSTALLATION CODE.

8 DUCTWORK:

- RECTANGULAR DUCT:
 - RIGID GALVANIZED STEEL, LOCK FORMING QUALITY TO ASTM A653/A653M
 - THICKNESS, FABRICATION, REINFORCEMENT AND SUPPORT/ATTACHMENT TO ASHRAE OR SMACNA.
- ROUND DUCT:
 - RIGID GALVANIZED STEEL, LOCK FORMING QUALITY TO ASTM A653/A653M
 - THICKNESS, FABRICATION, REINFORCEMENT AND SUPPORT/ATTACHMENT TO ASHRAE OR SMACNA.
- SEAL CLASSIFICATION:
 - CLASS A: LONGITUDINAL SEAMS, TRANSVERSE JOINTS, DUCT WALL PENETRATIONS AND CONNECTIONS MADE AIRTIGHT WITH SEALANT AND TAPE.
- ALL DUCT AND SEAL MATERIALS TO HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND A SMOKE DEVELOPED CLASSIFICATION OF LESS THAN 50.

9 MECHANICAL FIRE PROTECTION:

- ALL PIPING SHALL BE TIGHTLY FITTED AND SEALED WITH FIRESTOPPING MATERIAL AT ALL FIRE SEPARATIONS AND FIRE-RATED MEMBRANES.
- FIRE DAMPERS:
 - FIRE DAMPERS SHALL BE CAN/ULC-S112 (STANDARD METHOD OF FIRE TEST OF FIRE DAMPER ASSEMBLIES) LISTED AND LABELLED.
 - SUPPLY AND INSTALL TIGHTLY-FITTED ACCESS DOOR IN DUCT TO ACCESS, INSPECT AND RESET FIRE DAMPER.
 - TYPES: DYNAMIC, 1-1/2 HR (30MIN TO 2HR FIRE RESISTANCE RATING).
 - FIRE DAMPER AND DUCT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS, AND SHALL BE SEALED WITH FIRESTOPPING MATERIAL.
- ALL MECHANICAL MATERIALS USED WITHIN CEILING RETURN AIR PLENUMS SHALL FLAME-SPREAD RATING NOT MORE THAN 25 AND SMOKE DEVELOPED CLASSIFICATION NOT MORE THAN 50 PER CAN/ULC-S102.2.

10 EARTHQUAKE LOAD:

- ALL MECHANICAL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE EARTHQUAKE LOAD AND EFFECTS REQUIRED BY THE ONTARIO BUILDING CODE.
- MECHANICAL ELEMENTS AND COMPONENTS (EQUIPMENT, PIPES, DUCTS, ETC.), AND THEIR CONNECTIONS TO THE BUILDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SMACNA/ANSI SEISMIC RESTRAINT MANUAL OR OTHER GUIDELINE REFERENCED IN THE ONTARIO BUILDING CODE.

11 EQUIPMENT AND MATERIALS SUPPORT:

- ALL MECHANICAL EQUIPMENT, PIPING, DUCTWORK, AND RELATED ITEMS SHALL BE SECURELY SUPPORTED, ATTACHED AND FASTENED TO BUILDING STRUCTURE.

- PIPE HANGERS AND SUPPORTS SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH MSS STANDARD SP-58, PIPE HANGERS AND SUPPORTS - MATERIALS, DESIGN, MANUFACTURE, SELECTION, APPLICATION, AND INSTALLATION.
- PLATFORMS SHALL BE FABRICATED FROM STRUCTURAL GRADE STEEL MEETING THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, INCLUDING CSA STANDARD W59 WELDED STEEL CONSTRUCTION, AND THE REQUIREMENTS OF THE CANADIAN WELDING BUREAU.

12 COORDINATION:

- INFORMATION INVOLVING ACCURATE DIMENSIONING OF THE BUILDING SHALL BE TAKEN FROM SITE BY CONTRACTOR.
- DRAWINGS ARE IN DIAGRAMMATIC FORM, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR EQUIPMENT. COORDINATE PHYSICAL LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ALLOW FOR ANY ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., IN ORDER TO AVOID INTERFERENCE AND FACILITATE THE WORK.
- CONTRACTOR TO MAKE ANY NECESSARY MODIFICATIONS OR ADDITIONS, WITHOUT CHARGE, TO ACCOMMODATE SITE CONDITIONS AND COORDINATION.
- COORDINATE ALL MECHANICAL EQUIPMENT WIRING, INCLUDING LOW VOLTAGE CONTROL WIRING, WITH ELECTRICAL TRADES.
- WALLS HAVE BEEN SHOWN TO BE CONSTRUCTED ABOVE THE CEILING TO THE UNDERSIDE OF ROOF STRUCTURE, TO CREATE A CEILING RETURN AIR PLENUM. THESE WALLS AND ALL OPENINGS SHALL BE INDICATED ON THE ARCHITECTURAL DRAWINGS.

13 START-UP, COMMISSIONING AND TRAINING:

- COMMISSIONING:
 - START-UP AND COMMISSION THE FOLLOWING SYSTEMS:
 - PLUMBING FIXTURES;
 - HVAC.
 - PERFORM SYSTEMATIC TESTS, PROCEDURES AND CHECKS ON SYSTEMS, AS FOLLOWS:
 - TO VERIFY OPERATION IN ACCORDANCE WITH CONTRACT DOCUMENTS, DESIGN CRITERIA AND INTENT, AND MANUFACTURER'S REQUIREMENTS;
 - TO ENSURE APPROPRIATE DOCUMENTATION IS PROVIDED;
 - TO EFFECTIVELY TRAIN BUILDING OPERATIONAL STAFF.
 - SYSTEMS ARE TO BE OPERATED AT FULL CAPACITY, WITH CORRECTION OF ALL DEFICIENCIES AND ADJUSTMENTS TO MEET OPTIMUM PERFORMANCE.
 - PROVIDE WRITTEN REPORT AT END OF COMMISSIONING OUTLINING EQUIPMENT OPERATIONAL CONDITIONS AND PARAMETERS.
- TESTING, ADJUSTING AND BALANCING:
 - TEST, ADJUST AND BALANCE (TAB) ALL PLUMBING AND HVAC EQUIPMENT AND SYSTEMS.
 - TAB PROCEDURE SHALL BE COMPLETED IN ACCORDANCE WITH ASHRAE STANDARD 111, MEASUREMENT, TESTING, ADJUSTING AND BALANCING OF BUILDING HVAC SYSTEMS.
 - PROVIDE DETAILED REPORT AT END OF TAB, IN ACCORDANCE WITH THE REPORTING PROCEDURES OF ASHRAE STANDARD 111.

FURNACE SCHEDULE

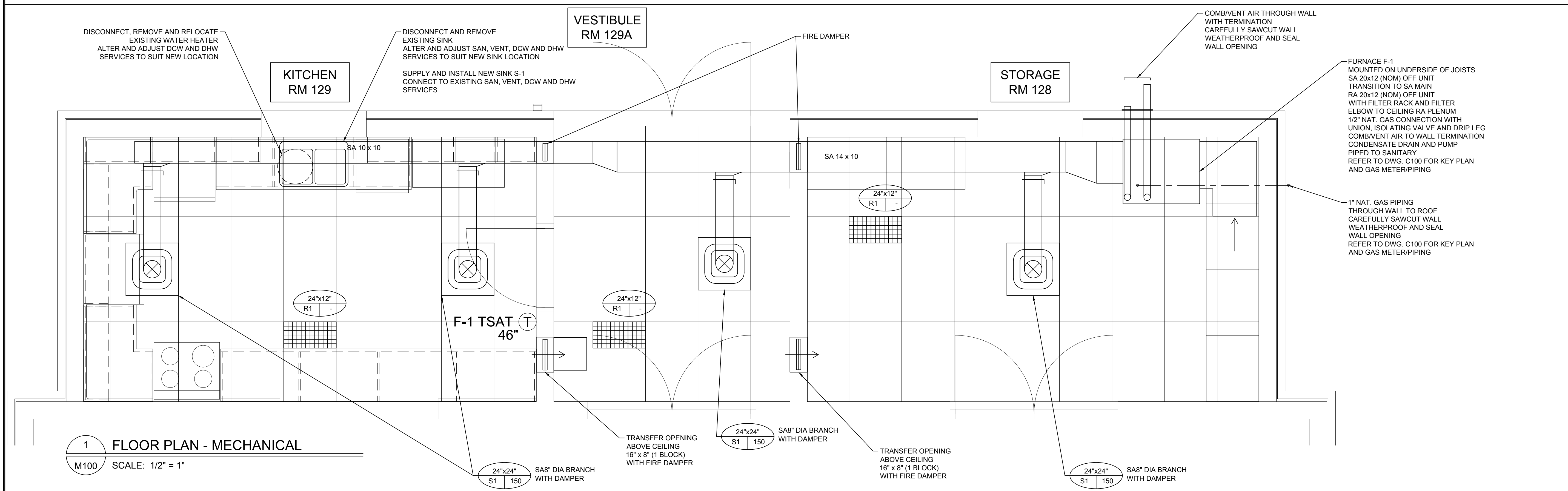
UNIT	DESCRIPTION	FAN		HEATING			ELECTRICAL		ACCEPTABLE PRODUCT		NOTES			
		AIR FLOW (cfm)	ESP (in)	HP	INPUT (Mbtu/hr)	OUTPUT (Mbtu/hr)	EFF (%)	GAS (in)	VOLTY (V)	PHASE (PH)		MCA (A)	MOCP (A)	
F-1	FURNACE GAS-FIRED, DIRECT VENT HORIZONTAL	800		1/2	40	39	97.5%	1/2	120	1	7.5	15	CARRIER #597PSA	TWO STAGE HEATING - MATCHING EVAPORATOR COIL - CONCENTRIC VENT TERMINATION WALL - RETURN AIR FILTER RACK - 7 DAY DIGITAL PROGRAMMABLE THERMOSTAT TO MEET ASHRAE 90.1: - 7 DAY SCHEDULE - 10 HR POWER LOSS - 2 HR MANUAL OVERRIDE - SETBACK TO 55F (13C) - SETUP TO 90F (32C)

REGISTER, GRILLE & DIFFUSER SCHEDULE

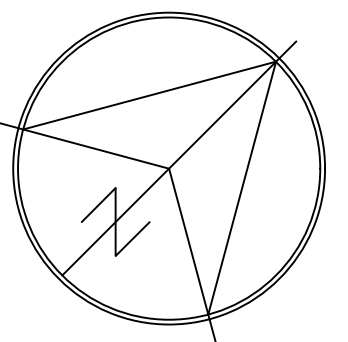
UNIT	DESCRIPTION	CONSTRUCTION	CONFIGURATION		DEFLECTION (deg)	FRAME	FINISH	ACCEPTABLE PRODUCT
			PATTERN	BLADE SPACING				
S1	SA DIFFUSER CEILING SQUARE CONE	STEEL	4 CONE FIXED AIR PATTERN	-	-	LAY-IN INVERTED T	WHITE	EH PRICE #SCD STEEL
R1	EGG CRATE RA CEILING	ALUMINIUM	FIXED GRID	12x12x25mm, 12x12x1in	0	LAY-IN INVERTED T	WHITE	OR APPROVED EQUAL EH PRICE #81

PLUMBING FIXTURE SCHEDULE

UNIT	DESCRIPTION	PIPE SIZE					ACCEPTABLE PRODUCT	NOTES
		TRAP (in)	WASTE (in)	VENT (in)	DCW (in)	DHW (in)		
S-1	KITCHEN SINK DOUBLE BOWL WITH LEDGE	1-1/2	1-1/2	1-1/4	1/2	1/2	FRANKE KINDRED #BD6407 SINK AMERICAN STANDARD #8270 FAUCET	STAINLESS STEEL LEVER HANDLES OVERALL DIM - W x FTB x D - 794 x 520 x 178mm, 31.25 x 20.5 x 7 in BOWL DIM - W x FTB x D - 355 x 406 x 178mm, 14 x 16 x 7 in MAX WATER CONSUMPTION - 8.35 Lpm, 2.2 gpm



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No.	Date	REVISION
1	2018-06-06	FINAL REVIEW
0	2018-05-11	FOR REVIEW

CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Educating and inspiring... heart, mind, body, and soul!

Client:
CATHOLIC DISTRICT SCHOOL BOARD OF EASTERN ONTARIO
Kemptville, Ontario

Project:
ST. MARY CATHOLIC SCHOOL
4 Hawthorne Ave.
Carleton Place, Ontario

Drawing:
MECHANICAL
Floor Plan
Notes & Schedules

Design:	M.MORRIS
Drawn:	A.M.
Date:	APR 2018
Project:	363
Scale:	AS SHOWN

M100