

FIRM NAME:GRGURIC ARCHITECTS INCORPORATED

CERTIFICATE OF PRACTICE NUMBER: 4164

CONTACT: GRGURIC ARCHITECTS INCORPORATED

28 KING STREET EAST, UNIT B, STONEY CREEK, ONTARIO, L8G 1J8

NAME OF PROJECT: ST PHILOMENA CATHOLIC ELEMENTARY SCHOOL

RENOVATION

LOCATION: 1332 PHILLIPS ST, FORT ERIE, ONTARIO, L2A 3C2

Item

Ontario's 2012 Building Code
Data Matrix Parts 3 and Part 11

OBC Reference
References are to Division B unless noted
[A] for Division A or [C] for Division C

1

Project Description:
RENOVATIONS OF GYMNASIUM AREA TO PROVIDE AN ADDITIONAL EXIT TO THE EXTERIOR OF THE SCHOOL COMPLETE WITH CONCRETE LANDING AND SATIRS, LIGHTING AND HVAC UPGRADES. CONVERSION OF AN EXISTING SPECIAL NEEDS ROOM TO A STAFF WASHROOM.

☐ New

☐ Addition

☒ Alteration

☐ Change of Use

Part 11

Part 3

Part 9

1.1.2. [A]

2

Major Occupancy(s) Group A, Division 2 (Existing)

3.1.2.1.(1)

3

Building Area (m²) Existing 2,082m² New 0.0m² Total 2,082m²

1.4.1.2.[A]

4

Gross Area (m²) Existing 2,082m² New 0.0m² Total 2,082m²

Area to be Renovated 350.0m² New 0.0m² Total 350.0m²

1.4.1.2.[A]

5

Number of storeys Above grade 1 Below grade 0

1.4.1.2.[A] & 3.2.1.1

7

Number of Streets/ Fire Fighter Access 1

3.2.2.10 & 3.2.5

8

Building Classification Existing - 11.3.3.1

3.2.2.20.-.83

9

Sprinkler System Proposed

☐ entire building (existing)

☐ selected compartments

☐ selected floor areas EXISTING (area of alteration)

☐ basement ☐ in lieu of roof rating

☐ not required ☒ not sprinkled

3.2.2.20.-.83

3.2.1.5.

3.2.2.17.

INDEX

10

Standpipe required ☐ Yes ☒ No (Existing)

3.2.9

11

Fire Alarm required ☒ Yes ☐ No (Existing)

3.2.4

12

Water Service/Supply is Adequate ☒ Yes ☐ No (Existing)

3.2.5.7.

13

High Building ☐ Yes ☒ No

3.2.6

14

Permitted Construction ☐ Combustible permitted ☐ Non-combustible required ☒ Both

Actual Construction ☐ Combustible ☒ Non-combustible ☐ Both

3.2.2.20.-.83

15

Mezzanine(s) Area m ² N/A

3.2.1.1.(3)-(8)

16

Occupant load based on ☐ m²/person ☒ design of building

Occupancy A-2 Load EX persons

3.1.17

17

Barrier-free Design ☒ Yes ☐ No (Explain)

3.8

18

Hazardous Substances ☐ Yes ☒ No

3.3.1.2. & 3.3.1.19

19

Required Fire Resistance Rating - See Note Below (FRR)

Horizontal Assemblies (Existing) FRR (Hours)

Listed Design No. or Description (SG-2)

Floors 1 Hours

N/A

Roof 0 Hours

EXISTING, NON COMBUSTIBLE

Mezzanine 1 Hours

N/A

FRR of Supporting Members

Listed Design No. or Description (SG-2)

Floors 1 Hours

N/A

Roof 0 Hours

EXISTING

Mezzanine 1 Hours

N/A

3.2.2.20.-.83 & 3.2.1.4

19

Spatial Separation - Construction of Exterior Walls

3.2.3

Wall

Area of EBF (m²)

L.D. (m)

L/H or H/L

Permitted Max. % of Openings

Proposed % of Openings

FRR (Hours)

Listed Design or Description

Comb. Constr.

Comb. Constr. Nonc. Cladding

Non-comb. Constr.

North

N/A

-

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South

N/A

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East

N/A

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West

N/A

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-

20

Sanitary Facility Summary - Elementary School

3.7.4.3.(14)

OBC DATA MATRIX

ST PHILOMENA CATHOLIC ELEMENTARY SCHOOL

GYM AND HVAC UPGRADES

1332 PHILLIPS ST, FORT ERIE, ONTARIO, L2A 3C2

NIAGARA CATHOLIC DISTRICT SCHOOL BOARD

427 RICE ROAD, WELLAND, ONT L3C 7C1 Tel. (905)735-0240

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DFE

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Structural Engineers

STRUCTURAL ENGINEER

exp Services Inc.

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Hamilton, ON L8N 1E1

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www.exp.com

exp.

BUILDINGS

EARTH & ENVIRONMENT

ENERGY

INDUSTRIAL

INFRASTRUCTURE

SUSTAINABILITY

MECHANICAL / ELECTRICAL ENGINEER

SITE

LOCATION PLAN
N.T.S.

DRAWING LIST:

ARCHITECTURAL

A 0.00

COVER SHEET

A1.00

DEMOLITION FLOOR PLAN

A1.05

DEMOLITION REFLECTED CEILING PLAN

A2.00

GROUND FLOOR PLANS

A2.05

REFLECTED CEILING PLANS

A2.10

ROOF PLAN

A3.00

GYMNASIUM - INTERIOR ELEVATIONS

A4.00

EXTERIOR STAIR DETAILS

A5.00

GYMNASIUM COURT LAYOUTS

A8.00

ROOM FINISH AND DOOR SCHEDULE

STRUCTURAL

S0.0

GENERAL NOTES

S1.0

FLOOR AND ROOF PLAN

MECHANICAL

M1.00

DRAWING LIST, KEY PLAN AND LEGENDS

M2.00

GYM FLOOR PLAN - PLUMBING DEMOLITION

M2.01

GYM FLOOR PLAN - PLUMBING INSTALLATION

M3.00

GYM FLOOR PLAN - HVAC DEMOLITION

M3.01

GYM FLOOR PLAN - HVAC INSTALLATION

M3.02

PART ROOF PLANS - HVAC DEMOLITION AND INSTALLATION

M4.00

MECHANICAL DETAILS

ME5.0

MECHANICAL & ELECTRICAL SCHEDULES

ELECTRICAL

E0.00

ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST

E1.00

OVERALL PLAN

E2.00

FLOOR PLAN - DEMOLITION

E3.00

FLOOR PLAN - LIGHTING NEW

E3.10

FLOOR PLAN - POWER NEW, ROOF PLAN - POWER NEW AND DEMOLITION

E4.00

LIGHTING SCHEDULE AND DETAILS

ISSUED FOR
TENDER

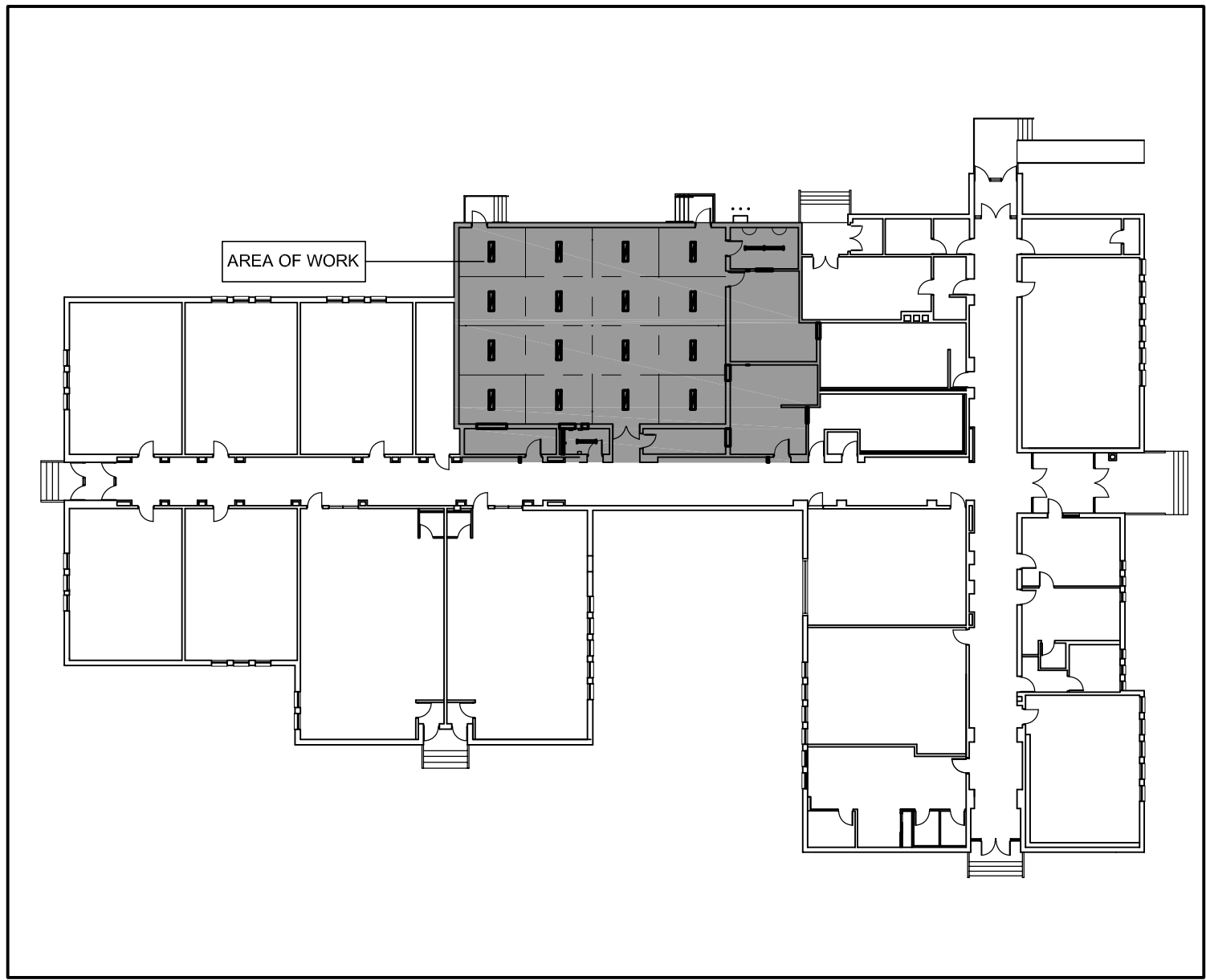
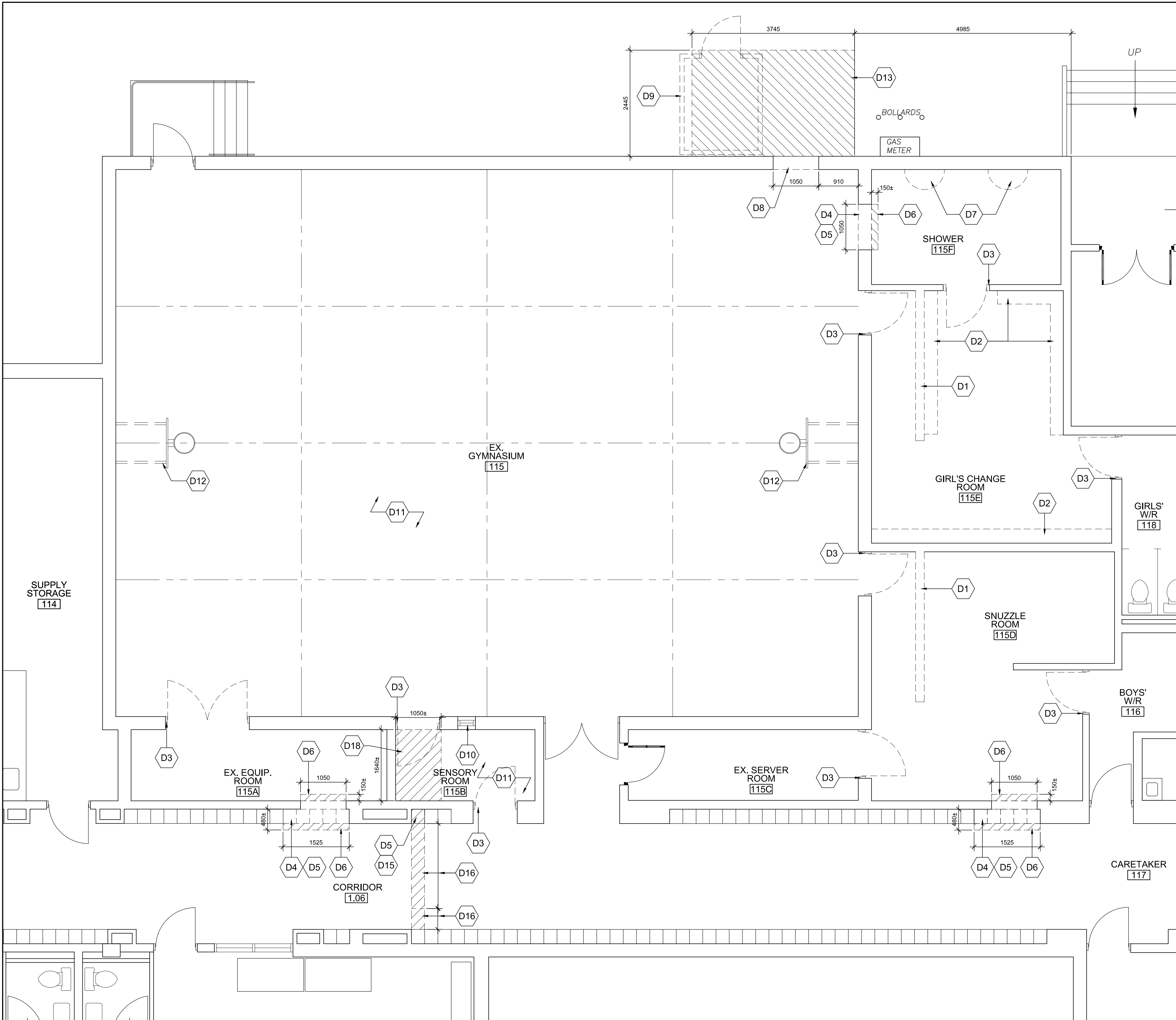
PROJECT NUMBER

2023-12

SET NUMBER

A 0.00

2024-01-23



KEY PLAN
SCALE: NTS

GENERAL NOTES

- COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.
- CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCRoACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION AT NO EXTRA COST TO THE PROJECT.
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC. ARE FOR REFERENCE ONLY AND ARE NOT INCLUSIVE. REFER TO MECHANICAL AND ELECTRICAL DRAWING FOR ALL RELATED NEW AND DEMOLITION WORK REQUIRED.
- CONNECTIONS OF ALL NON STRUCTURAL ELEMENTS AND EQUIPMENT TO SUPPORTING STRUCTURE TO BE DESIGNED TO COMPLY WITH ARTICLE 4.1.8.18 OF THE 2012 ONTARIO BUILDING CODE FOR SEISMIC LOADS. CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING THESE CONNECTIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER FOR APPROVAL BY ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.
- IF CONTRACTOR ENCOUNTERS ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) MATERIALS. THEY ARE TO ADVISE ARCHITECT & CLIENT IMMEDIATELY FOR FURTHER CONFIRMATION & INSTRUCTIONS.
- TRANSITIONS BETWEEN NEW AND EXISTING FLOOR FINISHES TO BE MADE SMOOTH AND CONTINUOUS. GRIND EXISTING FLOOR SLAB ACROSS DOOR THRESHOLDS TO SUIT THICKNESS OF NEW MATERIALS AND ENSURE NEW MATERIAL IS INSTALLED FLUSH WITH EXISTING.
- ALL PATCHING AND REPAIRING OF SURFACES ARE NOT NECESSARILY SHOWN. PATCH AND REPAIR ALL EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO THAT ALL SURFACES WHEN COMPLETE RESEMBLE A NEW INSTALLATION.
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- CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR OF ADJACENT MATERIALS AT ALL ELECTRICAL LIGHTING, EQUIPMENT, CONDUIT, RACEWAYS, MECHANICAL PLUMBING, PIPING, ETC. TO BE REMOVED, RELOCATED, REPLACED, INSTALLED. REFER TO ELECTRICAL DRAWINGS. PREPARE ALL SURFACES FOR NEW FINISHES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FLOOR FINISHES TO REMAIN, WALLS AND WALL MOUNTED EQUIPMENT FOR THE DURATION OF THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE SITE DAILY AND CONDUCTING A FINAL CLEANING AT THE END OF THE PROJECT. THE FINAL CLEANING INCLUDES A COMPLETE PRE-MOVE CLEANING, WIPING DOWN ALL WALLS, ALL NEW FIXTURES AND MILLWORK, ALL NEW DOOR FRAMES AND SILLS, SWEEPING AND MOPPING THE FLOORS. THE CONTRACTOR WILL PROVIDE ALL EQUIPMENT NECESSARY TO CLEAN THE SITE PRIOR TO CLIENT OCCUPANCY. THE CONTRACTOR WILL NOT BE PERMITTED TO USE CLIENTS CARE TAKING TOOLS AND EQUIPMENT, MOPS, BROOMS, BAGS, BINS, ETC.
- COORDINATE WITH MECHANICAL & ELECTRICAL DOCUMENTS FOR FULL EXTENT OF ALTERATIONS TO EXISTING PLUMBING, HEATING, VENTILATION, SPRINKLER SYSTEMS, ELECTRICAL PANELS, FIXTURES, CONDUITS, ETC. WITHIN EXISTING TO REMAIN.
- WHERE EXISTING SURFACES ARE DISTURBED DUE TO DEMOLITION OR ALTERATIONS, AND NOT REQUIRED TO BE COVERED WITH NEW FINISHES, SUCH SURFACES SHALL BE MADE GOOD TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
- MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR. REFER TO ALL DOCUMENTS FOR EXTENT OF WORK REQUIRED. MAKING GOOD INCLUDES ALL WORK ASSOCIATED WITH THE REMOVAL OF EXISTING AND INSTALLATION OF NEW SERVICES, ETC. (EXAMPLES: PLUMBING / HEATING MODIFICATIONS IN EXISTING BUILDING, INSTALLATION OF NEW DUCTS IN EXISTING BUILDING, ETC.)
- WHERE EXISTING WALLS, PARTITIONS / FURRINGS, BUILDING FITMENTS, HOUSEKEEPING PADS, ETC. ARE BEING REMOVED, MAKE GOOD SUBSTRATES TO RECEIVE NEW SPECIFIED MATERIALS AND FINISHES.
- EXISTING SLAB ON GRADE CUTTING AND REMOVALS CONTRACTOR IS TO ALLOW FOR UP TO 180mm EXISTING SLAB THICKNESS

DEMOLITION NOTES

- D1 EXISTING CONCRETE BLOCK WALL TO BE DEMOLISHED AND DISPOSED OF. SAW CUT ALONG EDGE OF EXISTING COVE BASE AND REMOVE BOTTOM BLOCK COURSE TO 50mm BELOW ADJACENT SLAB LEVEL. PATCH AND REPAIR EXISTING WALL TO REMAIN AND MAKE READY TO RECEIVE NEW FINISHES.
- D2 EXISTING WOOD BENCH, METAL SUPPORT BRACKETS, WOOD SHELF AND WOOD RAIL TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR WALLS AS REQUIRED TO MAKE READY TO RECEIVE NEW WALL FINISH.
- D3 EXISTING WOOD WOOD DOORS AND METAL FRAMES TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR OPENING AS REQUIRED TO MAKE READY TO RECEIVE NEW DOOR AND FRAME WHERE SCHEDULED.
- D4 CUT NEW DOORWAY OPENING IN EXISTING CONCRETE BLOCK WALL. REMOVE AND DISPOSE. COORDINATE OPENING SIZE PER DOOR SCHEDULE. PROVIDE NEW LINTEL OVER OPENING. ALLOW FOR REMOVAL TO 50mm BELOW EXISTING FLOOR LEVEL.
- D5 EXISTING 100mm HIGH CONCRETE CURB BELOW LOCKERS TO BE REMOVED AND DISPOSED OF. ALLOW FOR CURB REMOVAL TO 50mm BELOW EXISTING FLOOR LEVEL.
- D6 REMOVE AND DISPOSE OF EXISTING TERRAZZO BASE, COVE AND FLOORING TO THE EXTENT SHOWN. REMOVE TERRAZZO BASE TO NEAREST JOINT LINE (APPROX. 150mm FROM WALL).
- D7 EXISTING MULTI HEAD SHOWER FIXTURE TO BE REMOVED AND DISPOSED OF. REFER TO AND COORDINATE WITH MECHANICAL DRAWINGS. PATCH AND REPAIR WALLS AS REQUIRED TO MAKE READY TO RECEIVE NEW FINISHES.
- D8 CUT NEW DOORWAY OPENING IN EXISTING CONCRETE BLOCK WALL. REMOVE AND DISPOSE. COORDINATE OPENING SIZE PER DOOR SCHEDULE. PROVIDE NEW LINTEL OVER OPENING. CAREFULLY DISMANTLE EXISTING BRICK WALL AND SALVAGE WHOLE BRICK UNITS FOR REUSE. REMOVE IN SAWTOOTH ALONG EACH SIDE OF CUT OPENING. ALL BRICKS WITH CUT ENDS, AND REINSTALL SALVAGED BRICKS WITH FINISHED ENDS TO FORM NEW MASONRY DOORWAY JAMBS. MAKE OPENING READY TO RECEIVE NEW HOLLOW METAL DOOR FRAME.
- D9 EXISTING PRECAST CONCRETE STORAGE SHED TO BE RELOCATED. FINAL LOCATION ON SITE TO BE DETERMINED WITH SCHOOL BOARD.
- D10 EXISTING METAL WINDOW FRAME AND WIRED GLASS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR OPENING AND MAKE READY TO RECEIVE NEW INFILL WALL.
- D11 EXISTING VINYL TILE FLOORING TO BE REMOVED AND DISPOSED OF. GRIND CONCRETE SLAB TO REMOVE ANY REMAINING ADHESIVE AND MAKE SLAB READY TO RECEIVE NEW FLOOR FINISH.
- D12 EXISTING BASKETBALL BACKBOARD, FRAME, AND WOOD BLOCKING TO BE REMOVED AND DISPOSED OF. FILL HOLES IN EXISTING CONCRETE BLOCK WALLS AND MAKE READY TO RECEIVE NEW WALL FINISHES.
- D13 DENOTES EXTENT OF EXISTING ASPHALT PAVING TO BE REMOVED AND DISPOSED OF
- D14 REMOVE AND DISPOSE OF EX METAL LOCKERS
- D15 CAREFULLY REMOVE LOCKERS AND TRIMS AS REQUIRED TO SUIT NEW SANITARY INSTALLATION.
- D16 CUT AND REMOVE EX SLAB ON GRADE AND TERRAZZO FLOOR FINISH TO SUIT NEW SANITARY INSTALLATION. REMOVE EX GRANULARS AS REQUIRED. REFER TO MECHANICAL DRAWINGS
- D17 CUT AND REMOVE EX TERRAZZO TOPPING FROM EDGE OF SLAB ON GRADE REMOVAL TO LOCKER BASE ON OTHER SIDE OF CORRIDOR. WIDTH OF TERRAZZO REMOVAL TO MATCH SLAB ON GRADE REMOVAL.
- D18 CUT AND REMOVE EX SLAB ON GRADE TO SUIT NEW SANITARY INSTALLATION. REMOVE EX GRANULARS AS REQUIRED. REFER TO MECHANICAL DRAWINGS

1 PARTIAL DEMOLITION FLOOR PLAN
A1.00 SCALE: 1:50



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-03

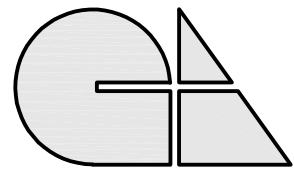
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DEMOLITION FLOOR
PLAN

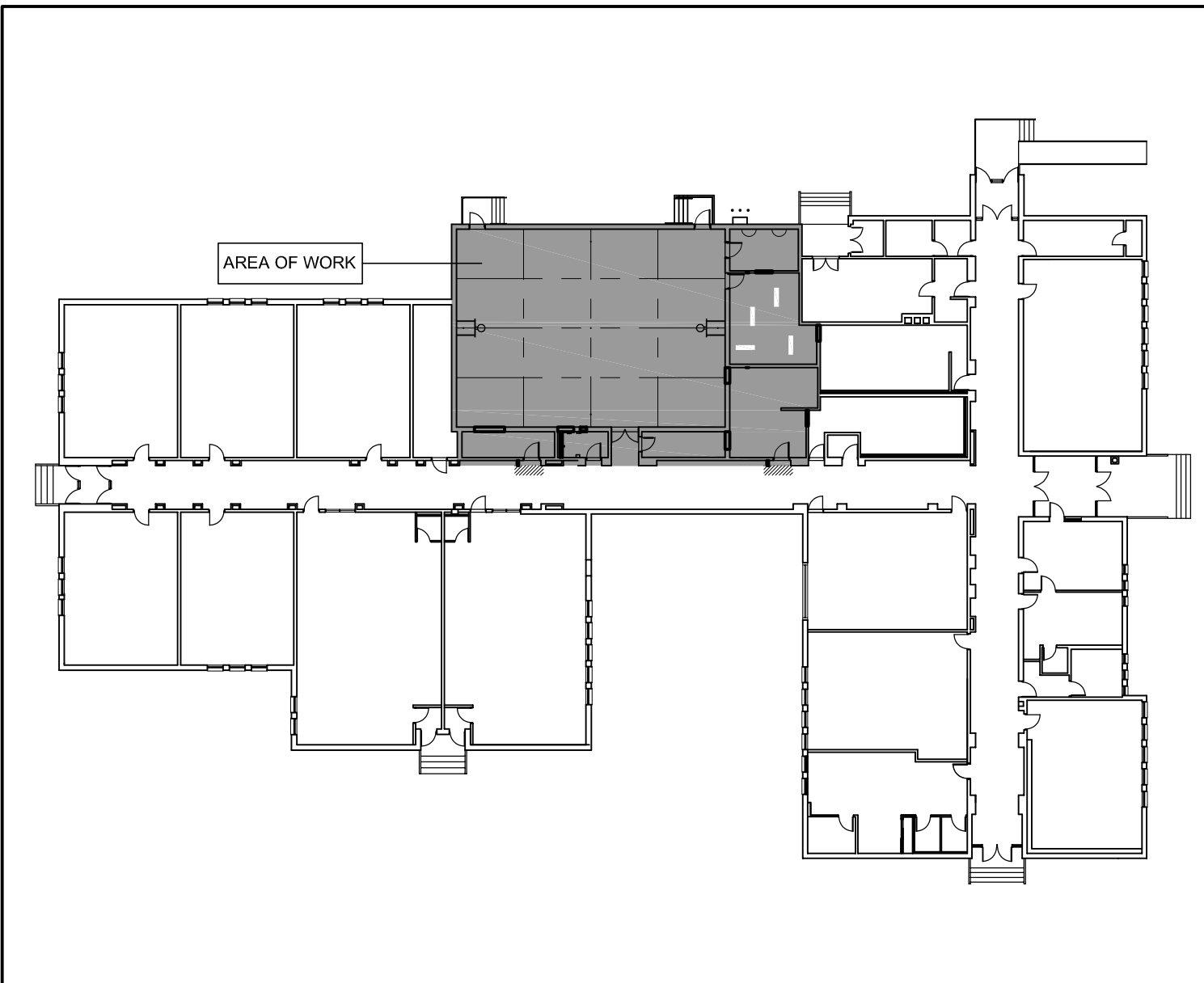
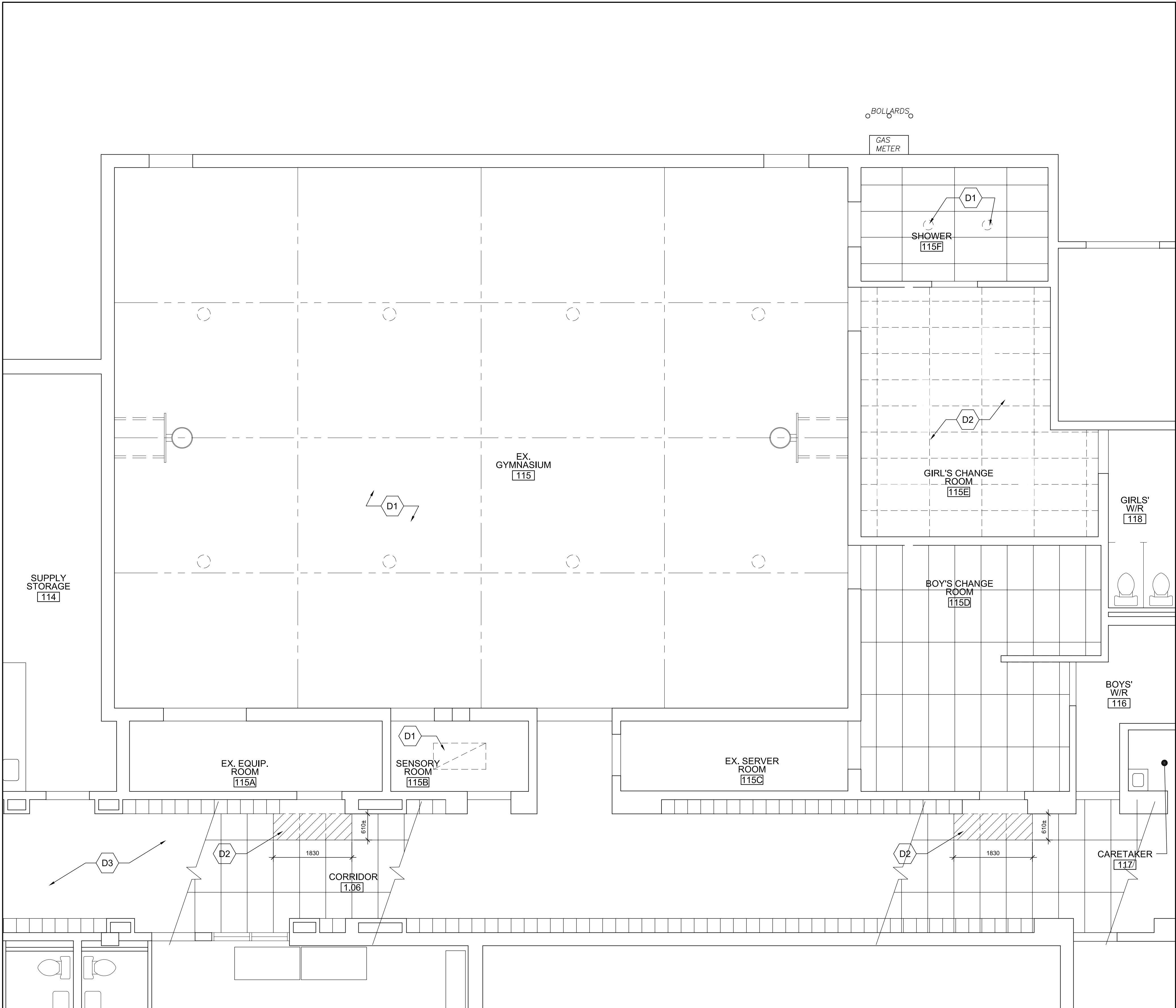
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Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gal.com

SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN DW	DRAWING: A1.00
CHECKED J.G.	
PRINT DATE 02/01/24	

S:\Cm\2023\2023-12_NCD\SB-SLP\Drawings-Fort-Erie\2023\Drawings\A1.00-Demolition_Plan_FortErie-12.dwg Drawing



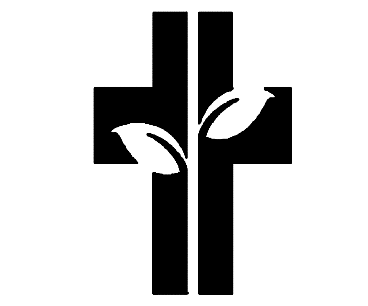
KEY PLAN
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DEMOLITION NOTES

- D1 REMOVE AND DISPOSE OF EXISTING LIGHT FIXTURES. REFER TO AND COORDINATE WITH ELECTRICAL DRAWINGS
- D2 EXISTING CEILING TILE, GRID AND WALL TRACK TO BE REMOVED AND DISPOSED OF TO THE EXTENT SHOWN.
- D3 CONTRACTOR TO COORDINATE TEMPORARY REMOVAL OF EXISTING ACOUSTIC CEILING TILES AND WHERE NEEDED T-BAR SUSPENSION SYSTEM TO SUIT THE INSTALLATION OF THE NEW WATER SUPPLY LINES LOCATED ABOVE THE CEILING. REFER TO MECHANICAL DRAWINGS. ALLOW FOR 20 NEW MATCHING REPLACEMENT TILES TO COVER ANY DAMAGED TILES.



NIAGARA CATHOLIC
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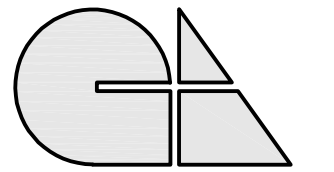
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DEMOLITION REFLECTED
CEILING PLAN

GRGURIC
ARCHITECTS
INCORPORATED

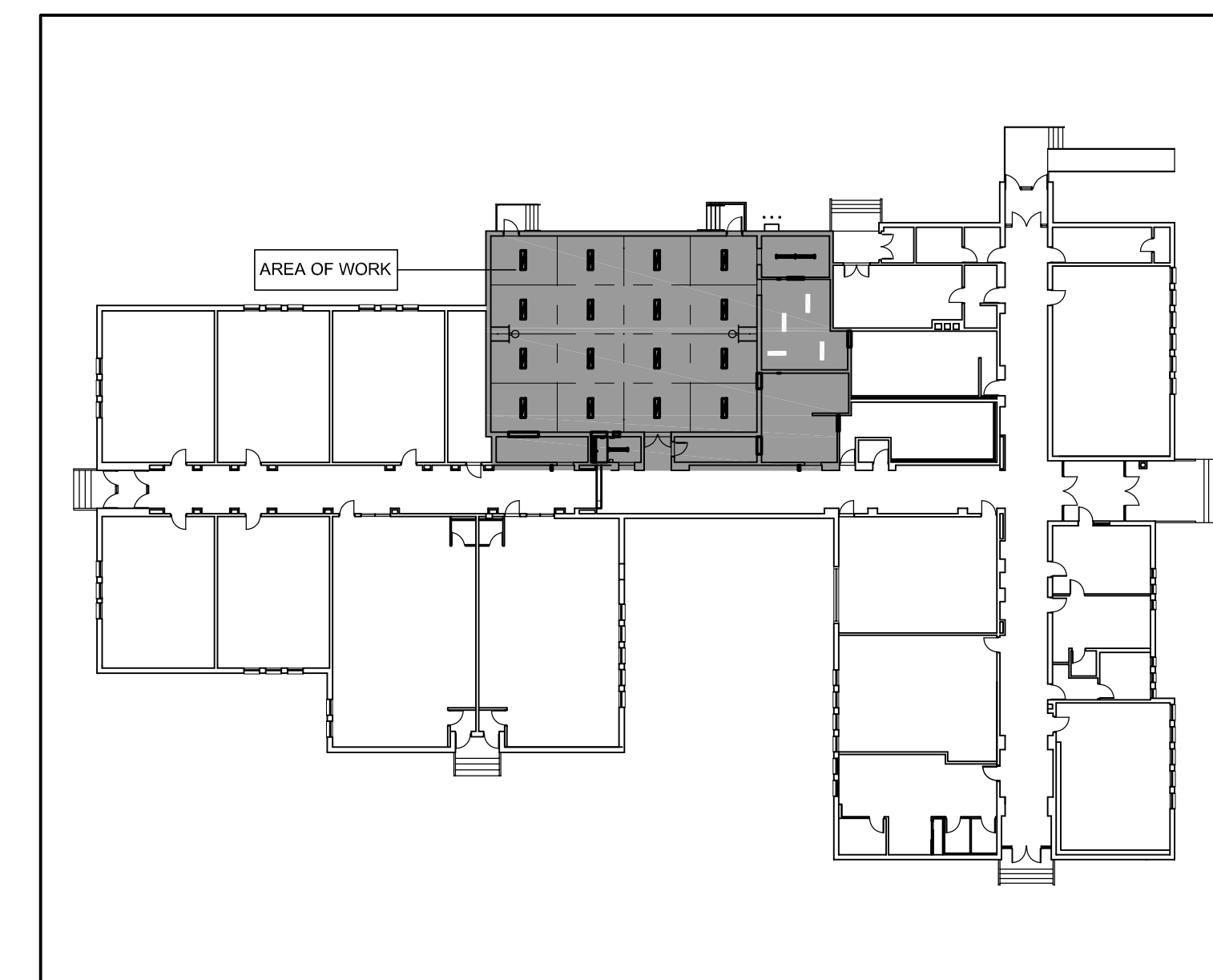


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Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gal.com

SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN DW	DRAWING: A1.05
CHECKED J.G.	
PRINT DATE 02/01/24	

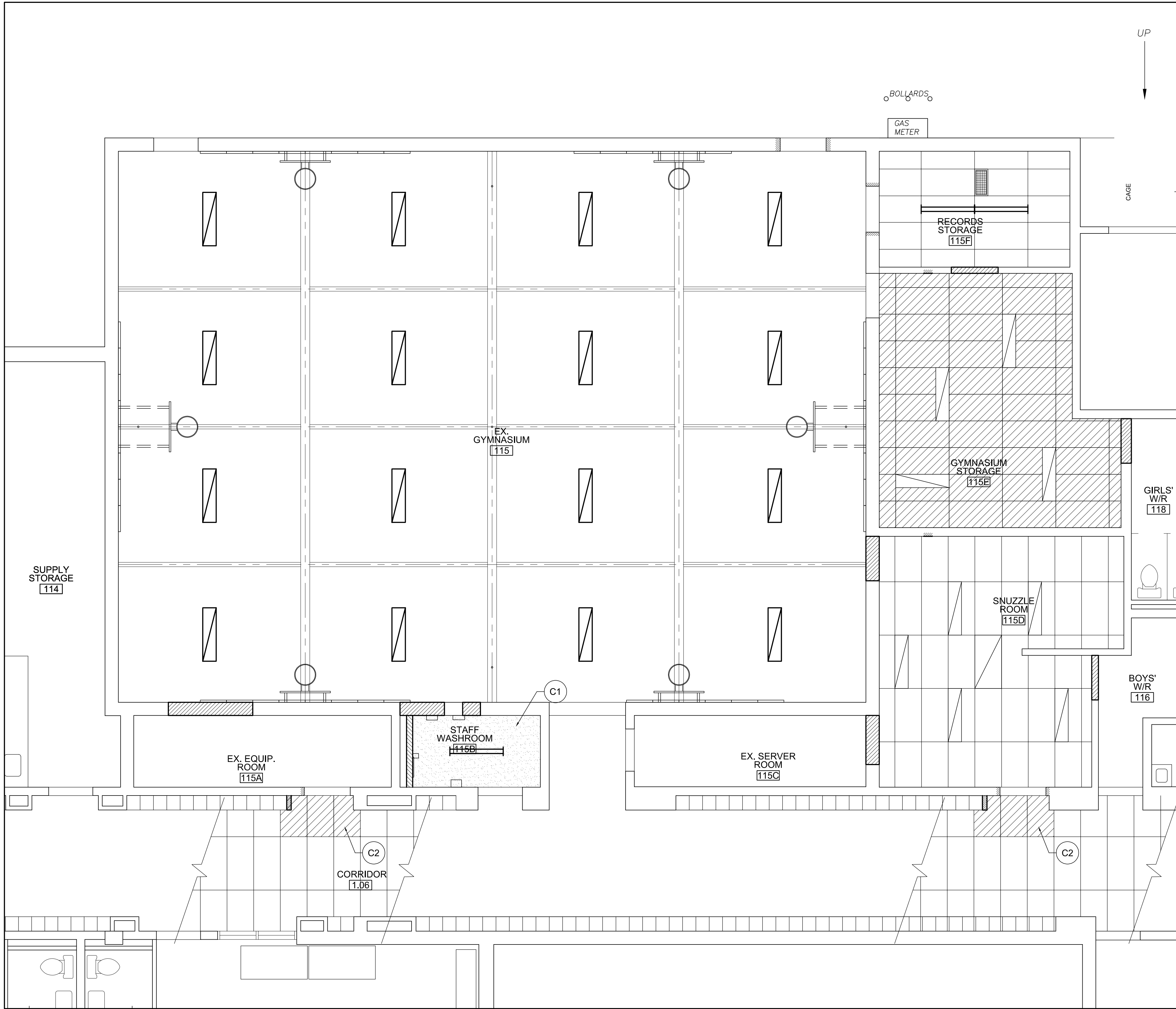
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Drawn:gal

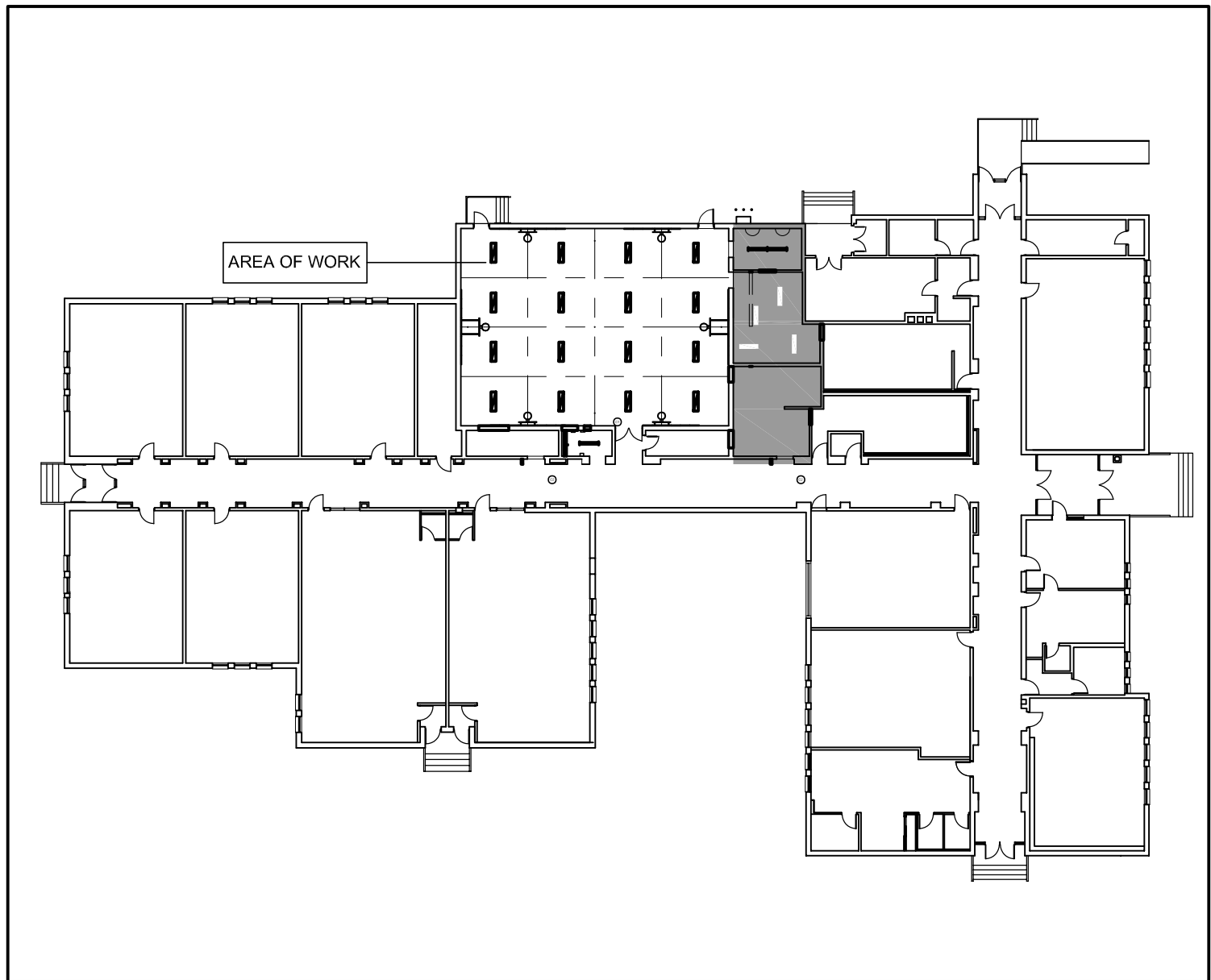


S:\Data\2023\2023-12 NCD58-St-Philomena-Fort-Erie\65Drawings\12-Working Drawing
A2.00-Floor_Plan[2023-12].dwg

SCALE: 1:50



1 PARTIAL GROUND FLOOR REFLECTED CEILING PLAN
SCALE: 1:50



KEY PLAN
SCALE: NTS

GRAPHIC RCP LEGEND

NOTE:
- REFER TO ELECTRICAL DRAWINGS FOR ACTUAL FIXTURE TYPES
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. DUCTWORK, PIPING, LIGHT FIXTURES, ETC. **ARE FOR REFERENCE ONLY** AND **ARE NOT INCLUSIVE**. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL RELATED WORK.

600x1200 LIGHT FIXTURE

300x1200 LIGHT FIXTURE

STRIP LIGHTING FIXTURE

DIFFUSER

RETURN AIR GRILLE

EXHAUST FAN

NEW GYPSUM BOARD CEILING OR BULKHEAD

EX 600x1200 ACOUSTIC CEILING TILE

600x1200 ACOUSTIC CEILING TILE

CONSTRUCTION NOTES

C1 16mm GYPSUM BOARD CEILING ON 22mm METAL HAT CHANNELS AT 400mm O/C ON 64mm METAL STUDS AT 400mm O/C.

C2 PROVIDE NEW ACT AND SUSPENSION GRID IN CORRIDOR AT NEW DOOR OPENINGS TO MATCH EXISTING

NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-03

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ST. PHILOMENA CATHOLIC ELEMENTARY SCHOOL
GYM AND HVAC UPGRADES

1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

REFLECTED CEILING PLAN

GRGURIC ARCHITECTS INCORPORATED

28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN DW	DRAWING: A2.05
CHECKED J.G.	
PRINT DATE 02/01/24	



D1	EXISTING INTERMEDIATE LEVEL STANDING SEAM METAL ROOF TO BE REMOVED AND DISPOSED OF TO THE EXTENT SHOWN (ABOVE EX CHANGEROOMS). CAREFULLY REMOVE THE 2ND LAST PANEL CLOSE TO THE EXISTING GYM WALL AS TO NOT DISTURB THE LAST PANEL AND THE EXISTING WALL FLASHING
D2	EXISTING WOOD STAIRS TO BE REMOVED AND STORED FOR REINSTALLATION
D3	EXISTING ROOF TOP UNIT AND METAL CURB TO BE REMOVED AND DISPOSED OF. REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS
D4	EXISTING MECHANICAL FANS AND CURBS TO BE REMOVED AND DISPOSED OF. REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS
D4	EXISTING MECHANICAL FANS AND CURBS TO BE REMOVED AND DISPOSED OF. REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS
D5	EXISTING METAL RIDGE CAP TO BE REMOVED AND DISPOSED OF.
D6	EXISTING METAL RIDGE CAP TO BE REMOVED AND DISPOSED OF.
D7	EXISTING METAL GABLE FLASHING TO BE CAREFULLY REMOVED AND STORED IN A SAFE PLACE FOR REUSE
D8	EXISTING METAL WALL PANELS TO BE REMOVED AND STORED IN A SAFE PLACE FOR REINSTALLATION. COORDINATE WIDTH OF OPENING W STRUCTURAL DRAWINGS TO ALLOW FOR NEW BEAM INSTALLATION
D9	EXISTING GUTTER AND LEADER TO BE REMOVED AND STORED IN A SAFE PLACE FOR REINSTALLATION

- C1 PROVIDE NEW 50mm STANDING SEAM METAL ROOF TO MATCH EXISTING.
- C2 NEW ROOF TOP MECHANICAL UNIT AND CURB. REFER TO AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR UNIT DETAILS. REFER TO STRUCTURAL DRAWINGS FOR SUPPORT OF UNIT.
- C3 RELOCATED WOOD STAIRS AND PAVEMENT STONES (LOWER ROOF ONLY)
- C4 METAL SAFETY RAIL SYSTEM SECURED TO METAL ROOFING SYSTEM. HEIGHT OF RAIL TO BE 1070mm. MODULES OF METAL RAIL SYSTEM TO CONSIST OF A TOP AND MID RAIL SECURED TO VERTICAL POSTS. POSTS ARE SECURED TO HORIZONTAL CHANNELS FASTENED TO ROOF DECK. BASIS OF DESIGN: SENTRY GW3 (4002 SERIES) METAL ROOF DECK MOUNTED RAILING SYSTEM BY SKYLINE GROUP.
- C5 PROVIDE NEW REPLACEMENT RIDGE FLASHING TO SUIT NEW METAL ROOFING INFER EAVE AND MATCHING SIMILAR TO EXISTING. REFER TO DETAIL 3A2.10 OF EXISTING RIDGE FLASHING, SHOWN FOR REFERENCE ONLY.
- C6 PROVIDE NEW 24GA METAL FLASHING OVER EXISTING ROOF TOP OPENING. FIELD VERGE SIZE OF OPENING. METAL FLASH TO EXTEND 50mm OPENING BY 50mm (MIN). FLASH AND SEAL AS NEEDED TO PREVENT WATER INFILTRATION
- C7 REMOVE SUBCONTRACTOR IS TO REMOVE AND REINSTALL EXISTING PERIMETER EDGE FLASHING OVER EXISTENT INDICATED. NOTE THAT THIS EXISTING CAP FLASHING TRANSITIONS TO THE EXISTING VERTICAL METAL SIDING (TO BE OVERHUNG) BELOW THIS PERIMETER. IN ADDITION, PROVIDE ALL NEW FLASHING ALONG THE EDGE OF THE NEW METAL ROOFING INCLUDING TRIMS AND FASTENERS AS REQUIRED TO COMPLETE THE NEW ROOFING INSTALLATION
- C8 REINSTALL EXISTING METAL GUTTER AND LEADER. INSTALL NEW DRIP FLASHING ALONG EDGE OF ROOF AND ALLOW FOR ALL REQUIRED TRIMS AND FASTENERS TO COMPLETE THE INSTALLATION

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1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

ROOF PLAN

28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	
START DATE: MAY 2023	

2023-12

DRAWN
DW

A2.10

CHECKED
J.G.

PRINT DATE	02/01/24
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S:\Data\2023\2023-12_NCD58-St-Philomena-Fort-Erie\65Drawings\12-Work
A2 05-Reflected Ceiling Plan\2023-121.dwg





APPROX	APPROXIMATE
BB-x	BASKETBALL BACKBOARD
EX	EXISTING
FE	FIRE EXTINGUISHER
MI-x	MIRROR
ND	NAPKIN DISPOSAL
PNT-x	PAINT
PT	PORCELAIN TILE
PTD	PAPER TOWEL DISPENSER
RB	RUBBER BASE
SD	SOAP DISPENSER
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
WP	WALL PAD
WI	WITH

4	ISSUED FOR TENDER	2024-01-1
3	ISSUED FOR BUILDING PERMIT	2024-01-1
2	ISSUED FOR CLIENT REVIEW	2023-12-2
1	ISSUED FOR CLIENT REVIEW	2023-11-4

NO	REVISIONS	DATE
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SCHOOL
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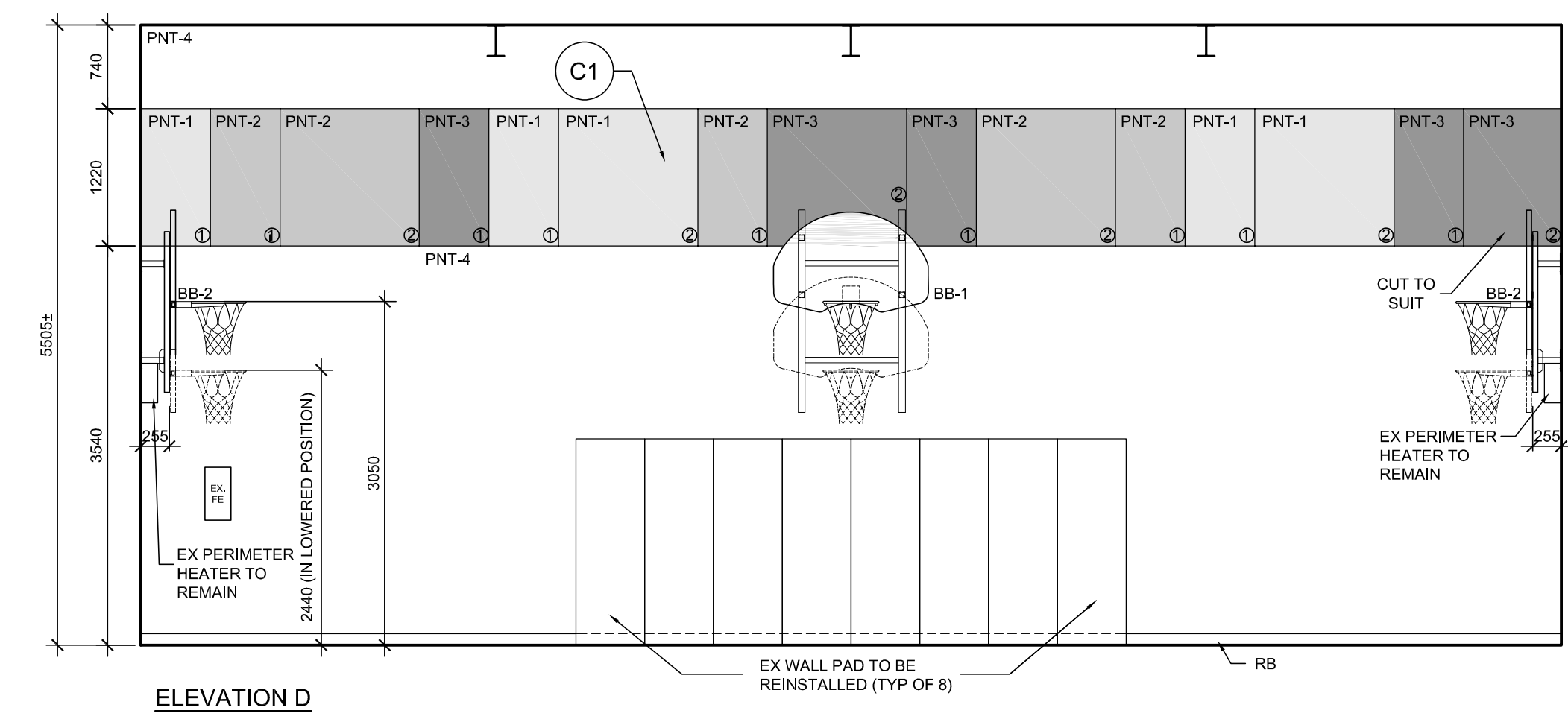
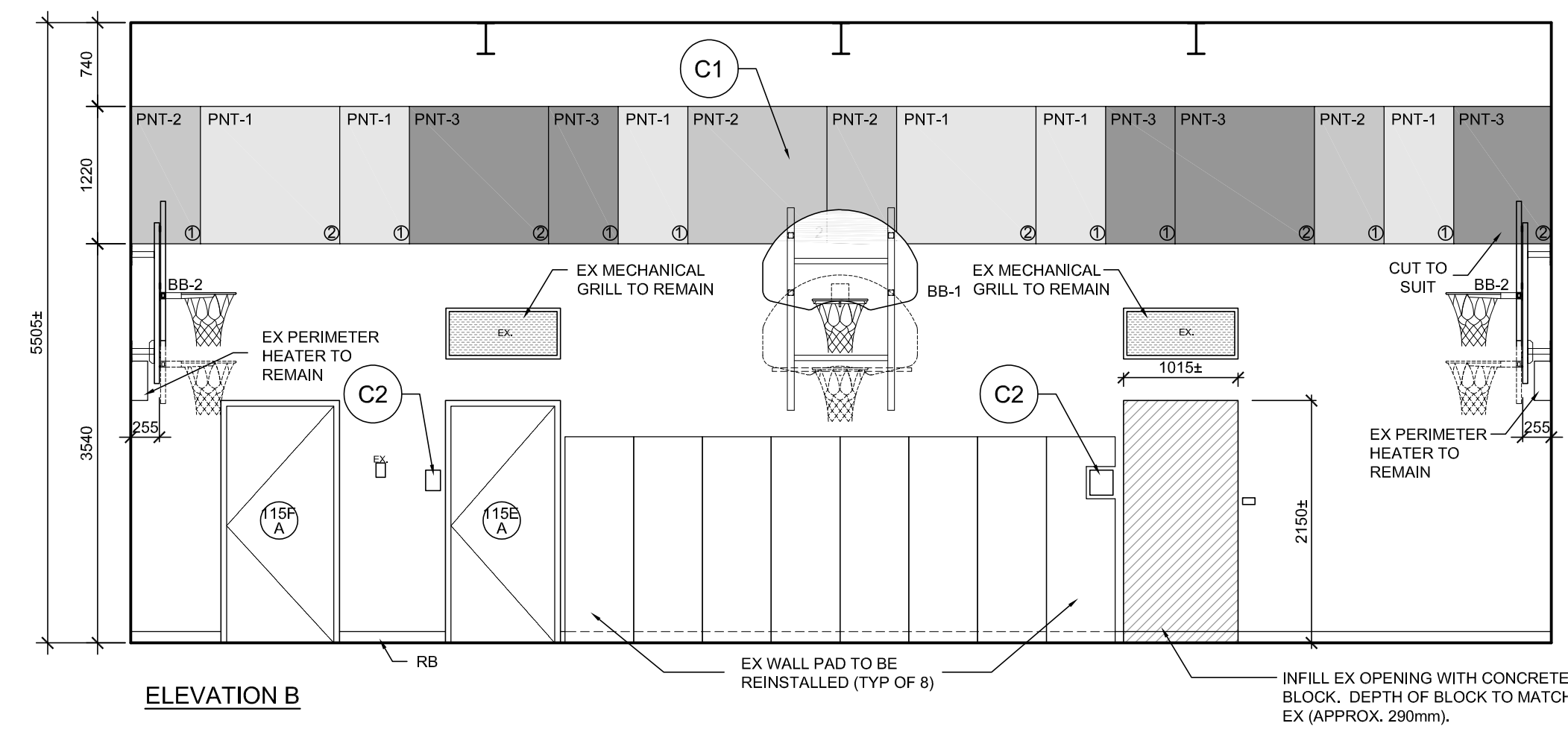
1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

GYMNASIUM - INTERIOR
ELEVATIONS

GRGURIC
ARCHITECTS
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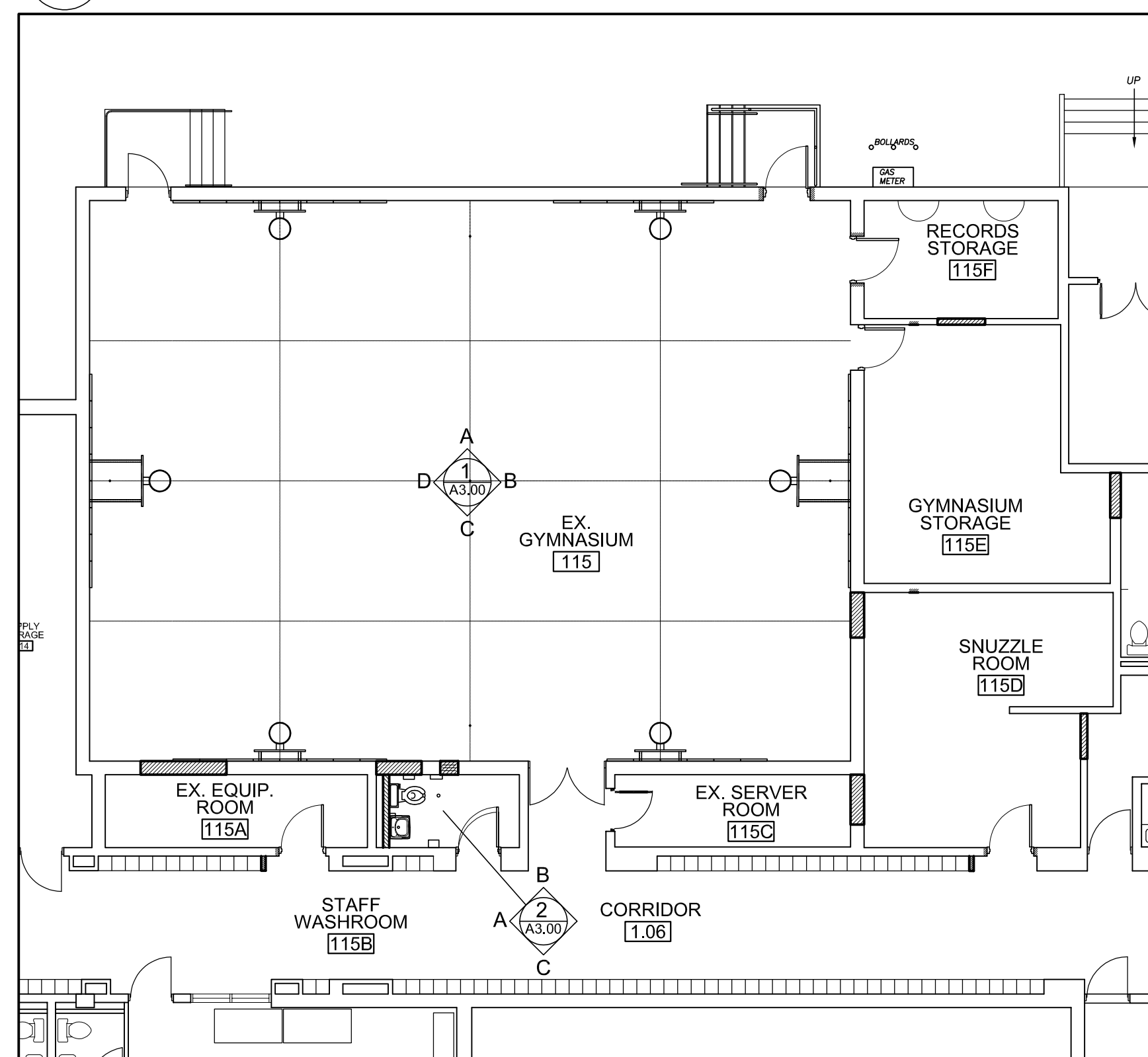


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DRAWN DW	DRAWING: A3.00
CHECKED J.G.	
PRINT DATE	02/01/24

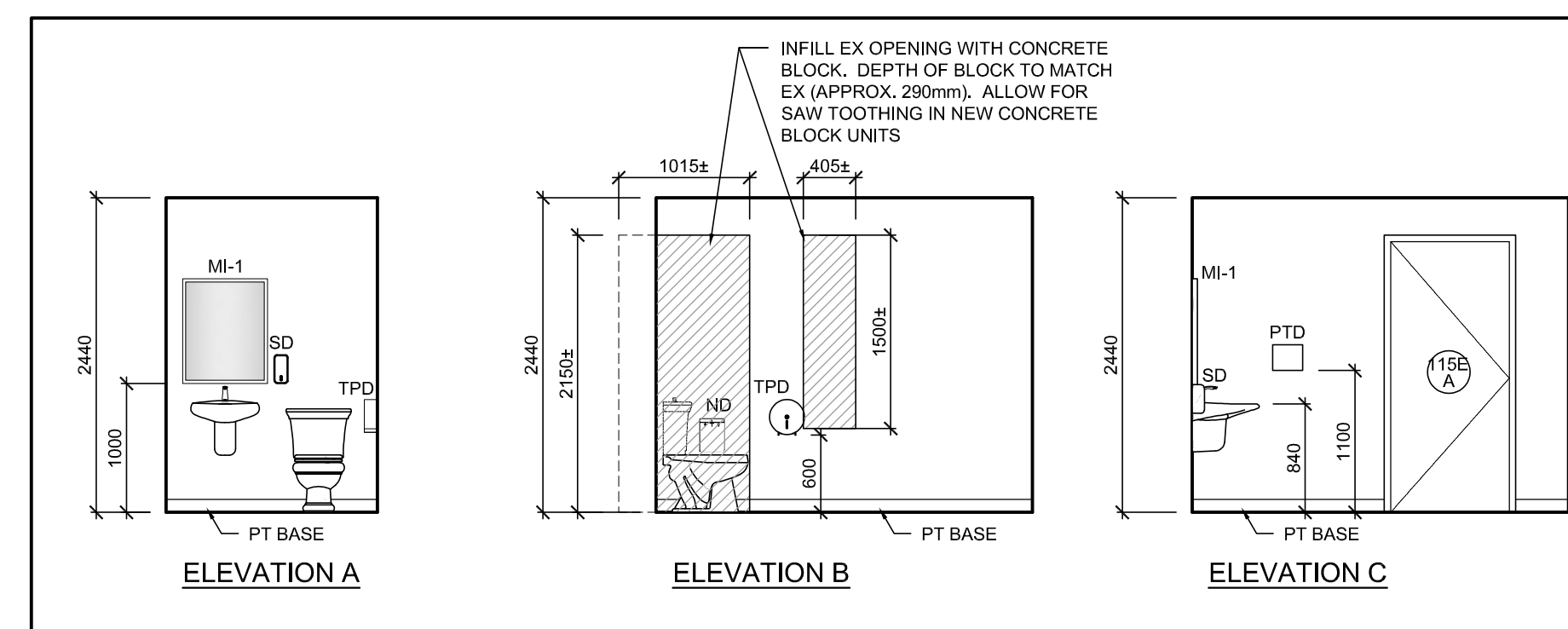


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A3.00

INTERIOR ELEVATION - GYMNASIUM 115
SCALE: 1:50



KEY PLAN
SCALE: NTS



2 INTERIOR ELEVATION - STAFF WASHROOM 115B
A3.00 SCALE: 1:50

NOTES

1. FIELD VERIFY ALL DIMENSIONS
2. ACOUSTIC WALL PANELS TO BE PAINTED COLOUR DENOTED BY PNT-x.
3.  DENOTES PANEL TYPE
TYPE 1 - 610mm x 1220mm
TYPE 2 - 1220mm x 1220mm

CONSTRUCTION NOTES

- | | |
|----|---|
| C1 | ACOUSTIC WALL PANEL ON 22mm METAL FURRING STRIPS AT 600mm O/C (MAX). WALL PANELS TO BE CUT WHERE REQUIRED TO FIT AROUND EXISTING WALL MOUNTED FIXTURES. |
| C2 | EX ELECTRICAL DEVICE W/ SAFETY COVER. COVER TO BE REMOVED TO ALLOW FOR WALL PAINTING AROUND DEVICE. COVER TO BE REINSTALLED ONCE PAINTING IS COMPLETE |



APPROX	APPROXIMATE
C/C	CENTER TO CENTER
C/W	COMPLETE WITH
EX	EXISTING
GALV	GALVANIZED
HGT	HEIGHT
MAX	MAXIMUM
MIN	MINIMUM
O/C	ON CENTER
TYP	TYPICAL
W/	WITH

4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-03
NO	REVISIONS	DATE

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FORT ERIE, ON L2A 3C2

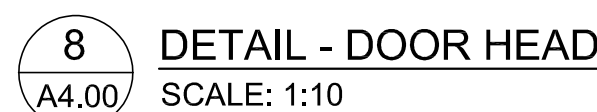
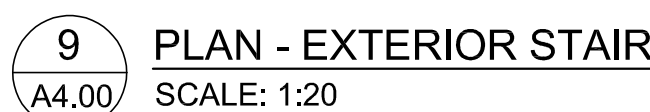
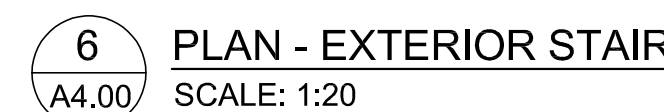
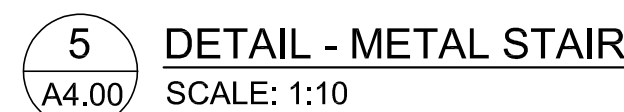
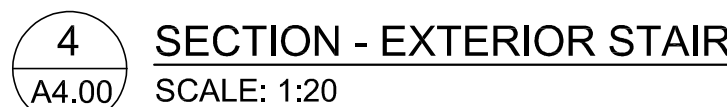
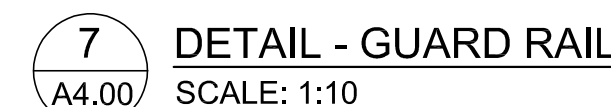
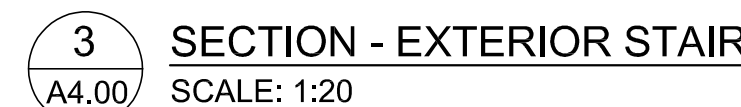
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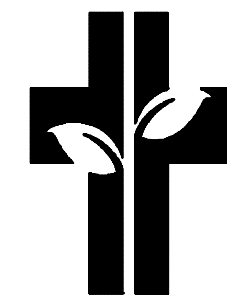
GRGURIC
ARCHITECTS
INCORPORATED



SCALE: AS NOTED	PROJECT:
START DATE: MAY 2023	2023-12
DRAWN DW	DRAWING:
CHECKED J.G.	A4.00
PRINT DATE	02/01/24

S:\Data\2023\2023-12_NCDSS-St-Philomene-Fort-Erke\65Drawings\12-Work-A-2023-01-Rev1.dwg





NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-03

NO	REVISIONS	DATE
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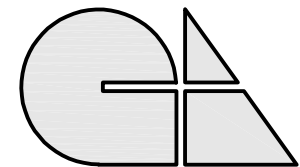
ST. PHILOMENA
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SCHOOL

GYM AND HVAC UPGRADES

1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

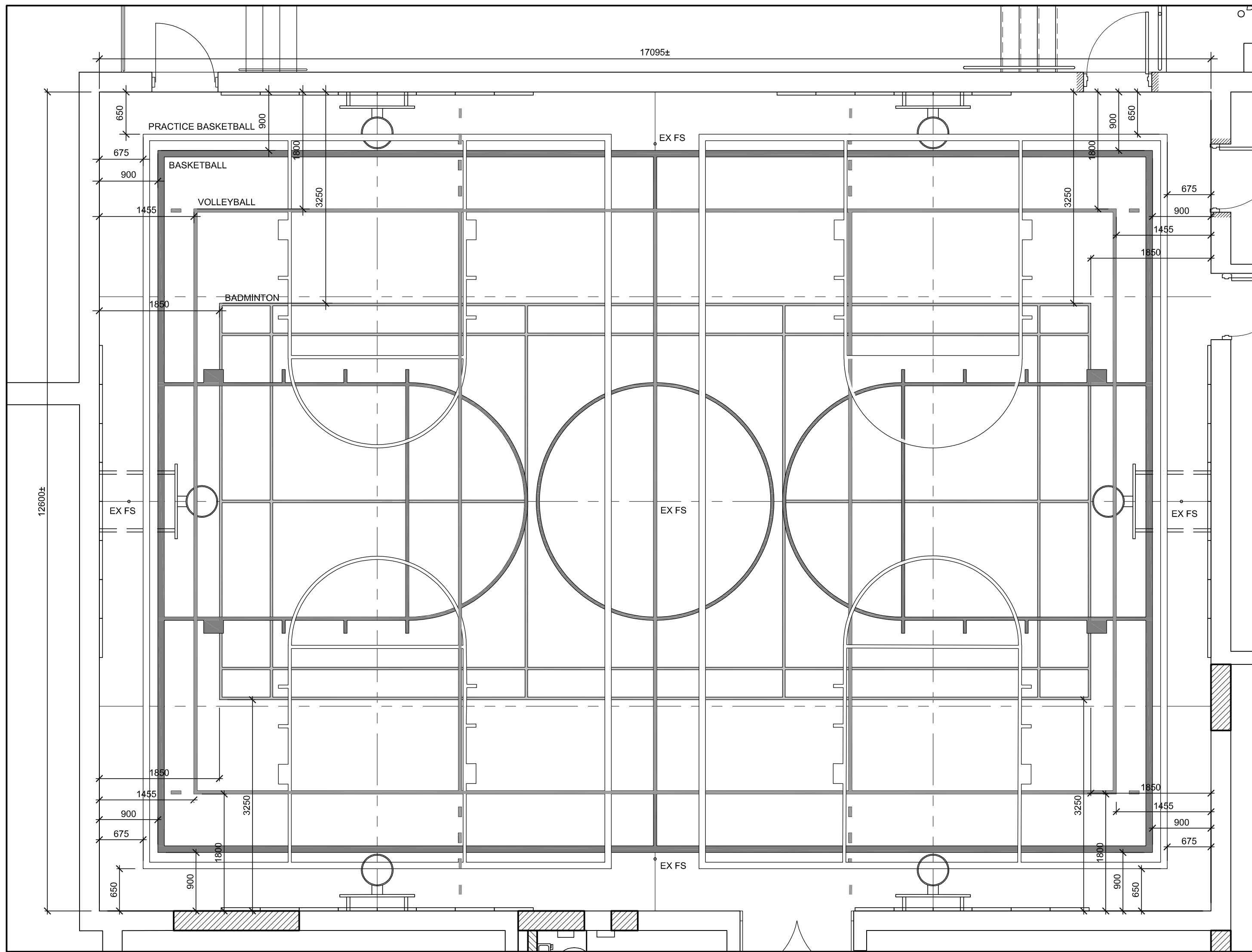
GYMNASIUM COURT
LAYOUTS

GRGURIC
ARCHITECTS
INCORPORATED

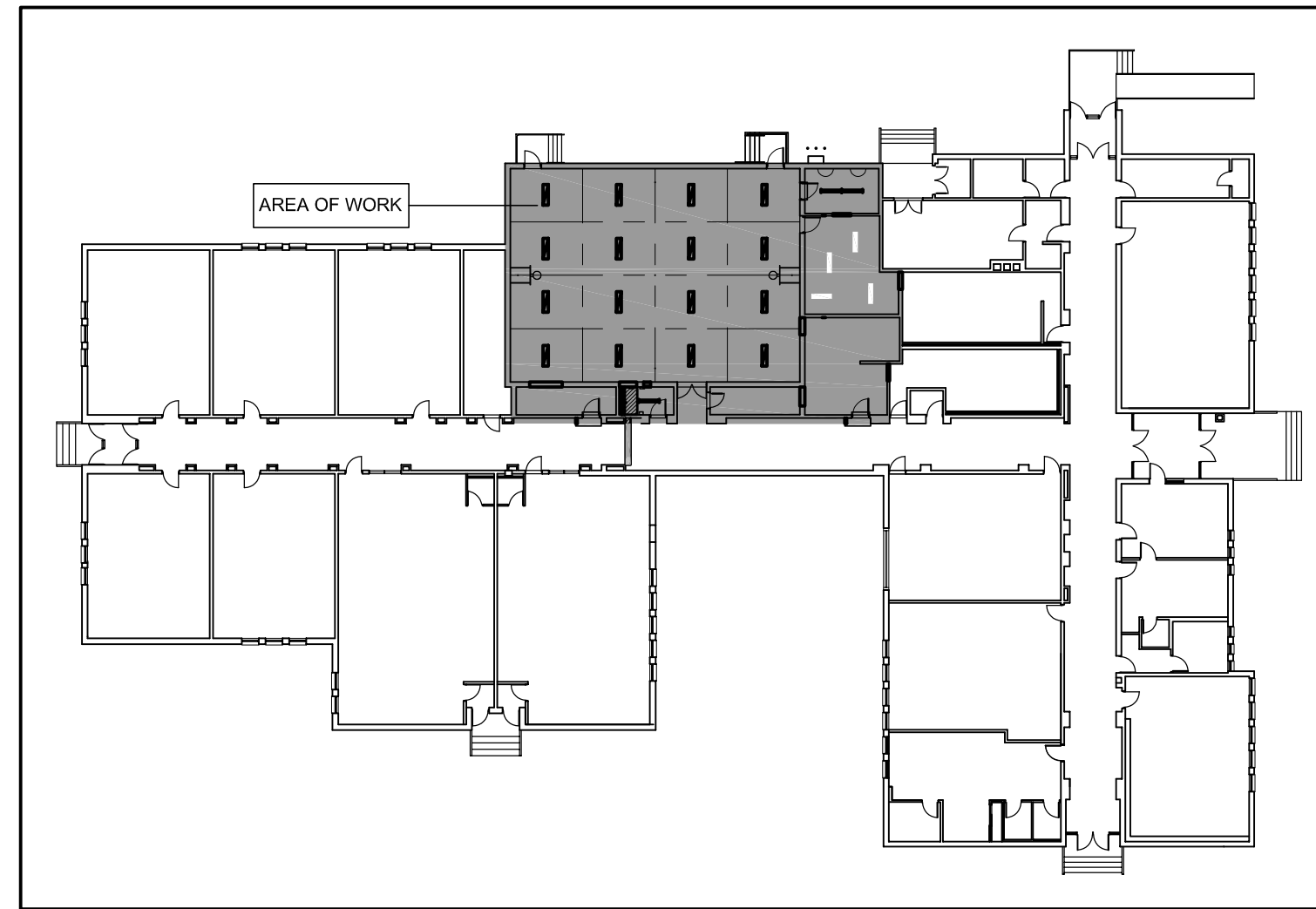


28 KING STREET EAST, UNIT B
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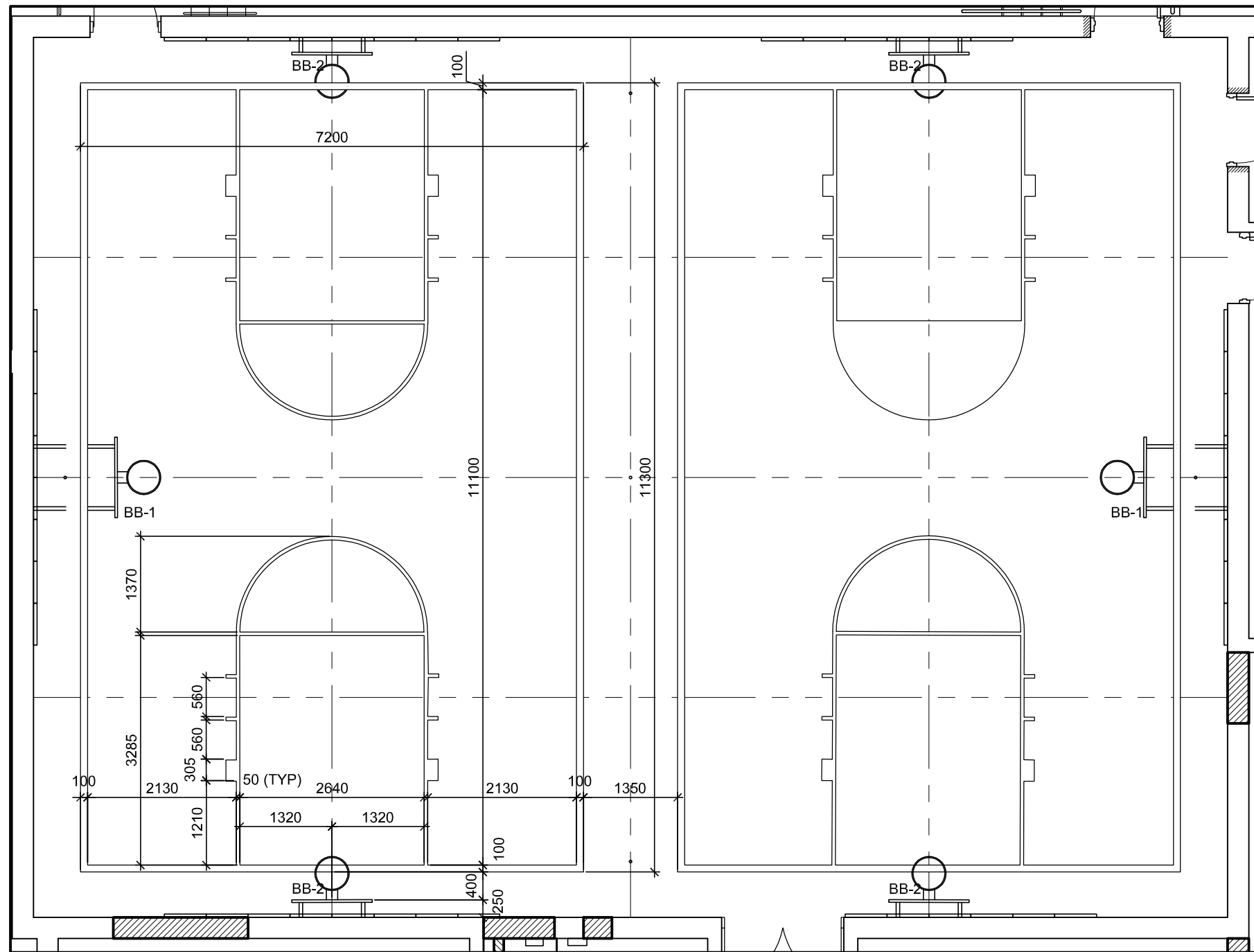
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START DATE: MAY 2023	
DRAWN DW	DRAWING: A5.00
CHECKED J.G.	
PRINT DATE 02/01/24	



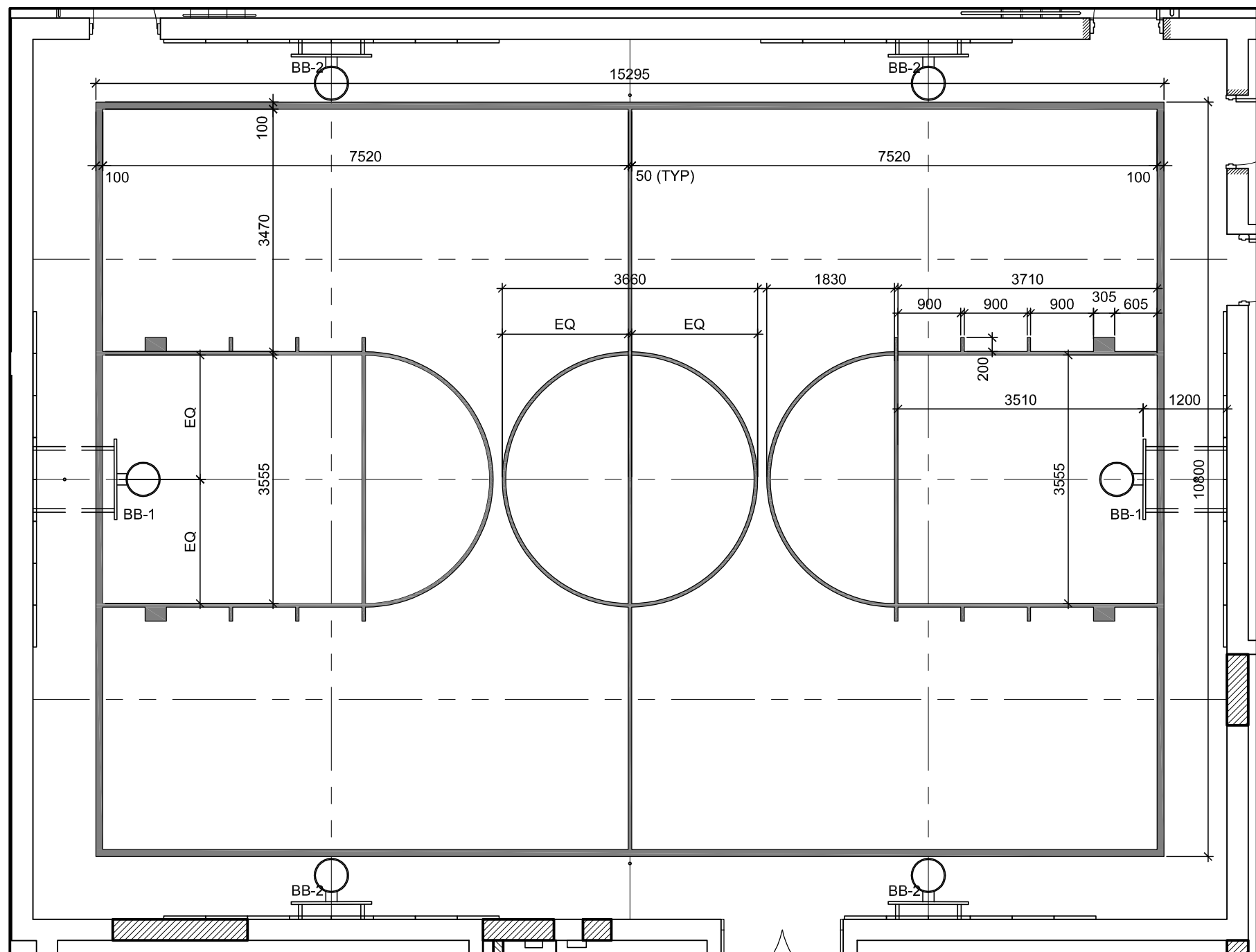
1 GYMNASIUM FLOOR PLAN COURT LAYOUT - ALL COURTS
SCALE: 1:50



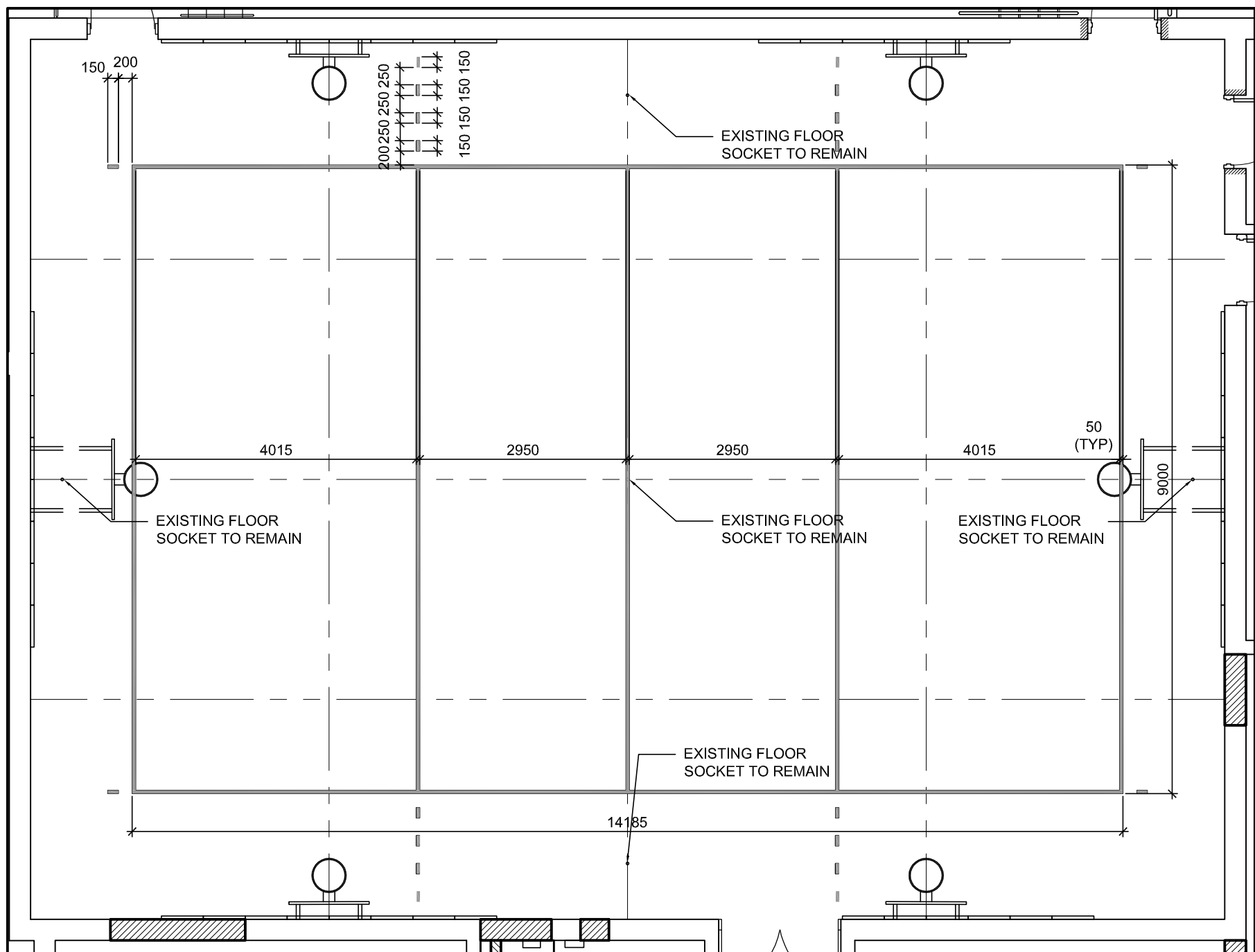
KEY PLAN
SCALE: NTS



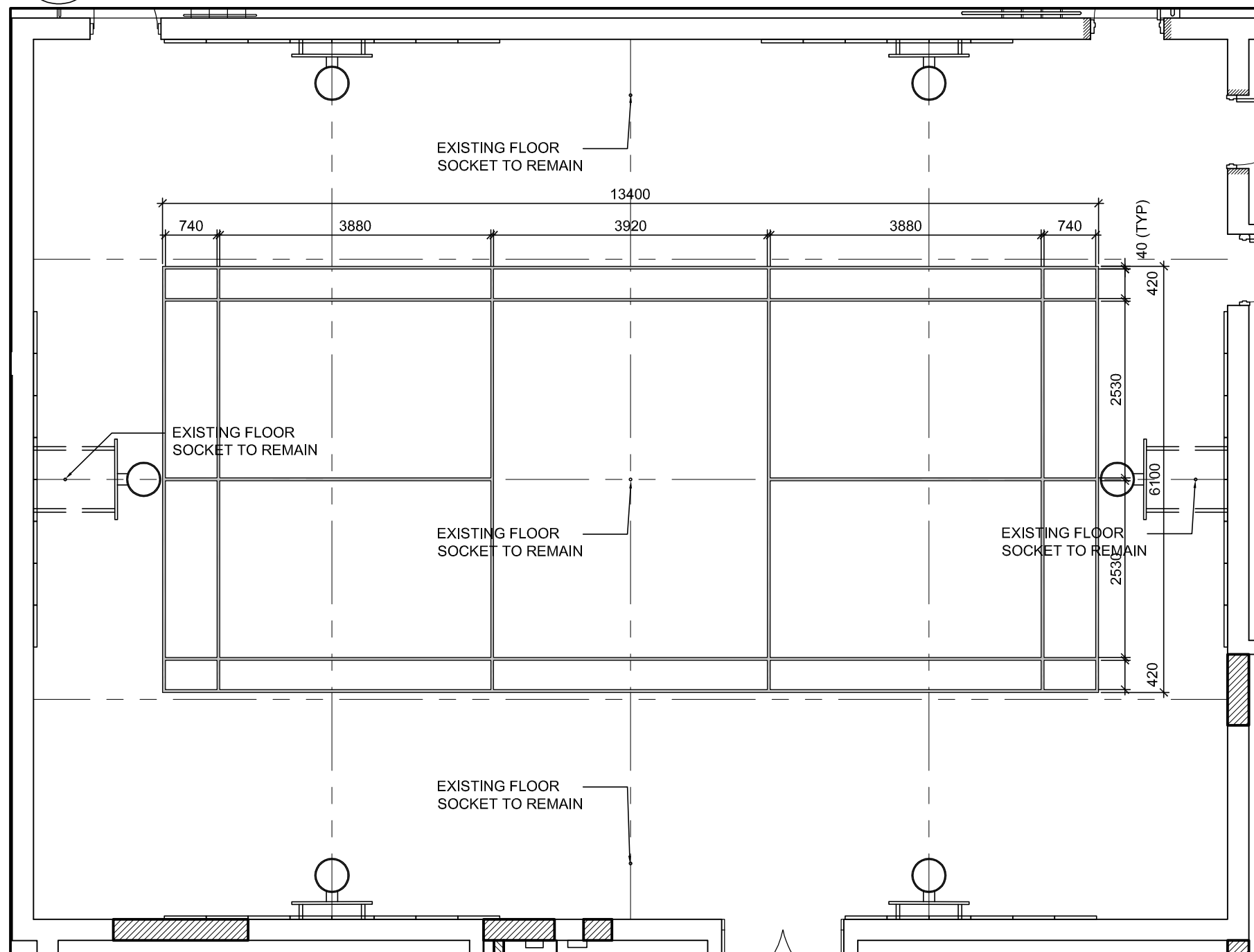
4 GYMNASIUM FLOOR PLAN COURT LAYOUT - BASKETBALL PRACTICE
SCALE: 1:75



2 GYMNASIUM FLOOR PLAN COURT LAYOUT - BASKETBALL
SCALE: 1:75



2 GYMNASIUM FLOOR PLAN COURT LAYOUT VOLLEYBALL
SCALE: 1:75



3 GYMNASIUM FLOOR PLAN COURT LAYOUT - BADMINTON
SCALE: 1:75

DOOR / SCREEN SCHEDULE

ROOM NO	ROOM NAME	DOOR NO.	DOOR / SCREEN								FRAME					REMARKS
			WIDTH	HEIGHT	THK	FIRE	TYPE	MAT'L	FIN.	GLASS	TYPE	MAT'L	FIN.	GLASS		
GROUND FLOOR																
115	GYMNASIUM	115 A	EX	EX	EX	EX	EX	EX	PAINT	-	EX	EX	PAINT	-	EX HM DOOR AND FRAME TO BE REPAINTED	
115	GYMNASIUM	115 B	950	2050	44	-	1	HM	PAINT	-	A	HM	PAINT	-	WS, TH, CH, INS, PH, CL. 196mm WIDE FRAME	
115	GYMNASIUM	115 C	EX	EX	EX	EX	EX	EX	PAINT	-	EX	EX	PAINT	EX	EX HM DOOR AND FRAME TO BE REPAINTED	
115A	RECORDS ROOM	115A A	950	2050	44	3/4 HR	1	HM	PAINT	-	B	HM	PAINT	-	CL	
115B	STAFF WASHROOM	115B A	900 (EX)	2050 (EX)	44	3/4 HR	1	HM	PAINT	-	A	HM	PAINT	-	CL; NEW HM DOOR AND FRAME TO FIT IN EX OPENING (FV)	
115D	SNUZZLE ROOM	115D A	950	2050	44	3/4 HR	2	HM	PAINT	WG	A	HM	PAINT	-	CL	
115E	GYM. EQUIPMENT	115E A	900 (EX)	2050 (EX)	44	-	1	HM	PAINT	-	A	HM	PAINT	-	NEW HM DOOR AND FRAME TO FIT IN EX OPENING (FV)	
115F	GYM EQUIPMENT	115F A	950	2050	44	-	1	HM	PAINT	-	A	HM	PAINT	-	-	

DOOR/SCREEN SCHEDULE NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL DOOR & FRAME / SCREEN QUANTITIES & DIMENSIONS PRIOR TO FABRICATION
2. GENERAL CONTRACTOR TO CO-ORDINATE LOCATION & INSTALLATION OF PUSH BUTTON / AUTOMATIC DOOR OPERATIONS AND ALL OTHER RELATED TRADES, TO BE SUPPLIED BY GENERAL CONTRACTOR & INSTALLED BY ELECTRICAL
3. REFER TO DOOR SCHEDULE FOR FIRE RESISTANCE RATINGS FOR DOOR, FRAMES & GLAZED FRAMES / SCREENS.
4. ALL HM, DOORS & FRAMES TO BE PAINTED.
5. REFER TO PLANS / DETAILS & WALL SECTIONS FOR LOCATIONS OF REQUIRED STEEL LINTELS / ANGLES (BY GENERAL CONTRACTOR) AND ANY FORMED ALUMINUM CLOSURE ANGLES OR SUPPORTS FOR DOOR / FRAMES (BY DOOR / FRAME INSTALLER)
6. AT ALL EXTERIOR DOORS PROVIDE CONTINUOUS SEALANT & BACKER ROD AROUND PERIMETER EDGES OF FRAME (TYP. FOR BOTH EXTERIOR & INTERIOR SIDES)
7. REFER TO DOOR HARDWARE SCHEDULE FOR ALL HOLD OPEN DEVICES, STRIKES, SECURITY, DOOR OPENERS, CLOSERS, PANIC HARDWARE, OVERHEAD STOPS, PUSH & KICK PLATES, ETC. & ANY OTHER DOOR HARDWARE REQUIREMENTS.

DOOR SCHEDULE LEGEND

- ACT-x

AFF

CH

CL

CONC

DS

EX

FG

FV

HM

INS

MTL

PH

PT

RB

SP FLR

TG

TH

THK
- ACOUSTIC CEILING TILE

ABOVE FINISHED FLOOR

CONTINUOUS HINGE

CLOSER

CONCRETE

DOOR SWEEP

EXISTING

FIRE RATED GLASS

FIELD VERIFY

HOLLOW METAL

THERMALLY INSULATED DOOR / FRAME

METAL

PANIC HARDWARE

PORCELAIN TILE

RUBBER BASE

SPORTS FLOOR

TEMPERED GLASS

THRESHOLD

THICKNESS
- UNO

VCT

VAR

WG

WS

W/

#

A
- UNLESS NOTED OTHERWISE

VINYL COMPOSITE TILE

VARIES

WIRED GLASS

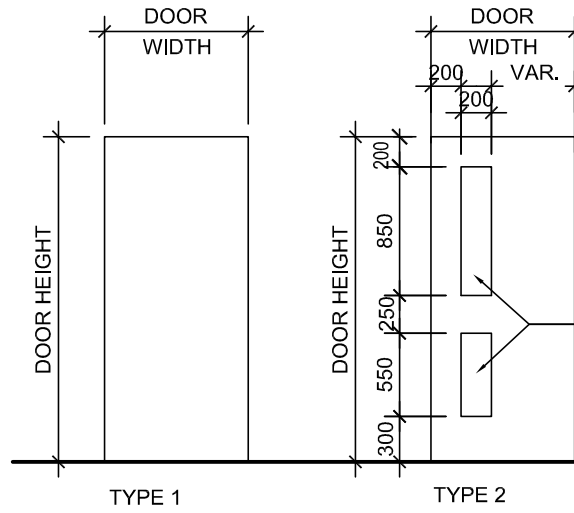
WEATHER STRIPPING

WITH

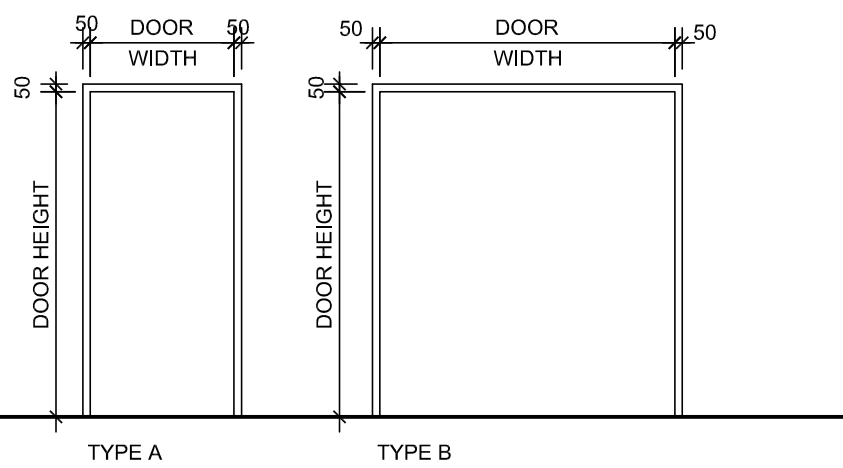
DENOTES DOOR NUMBER

DESIGNATION TAG ON PLAN

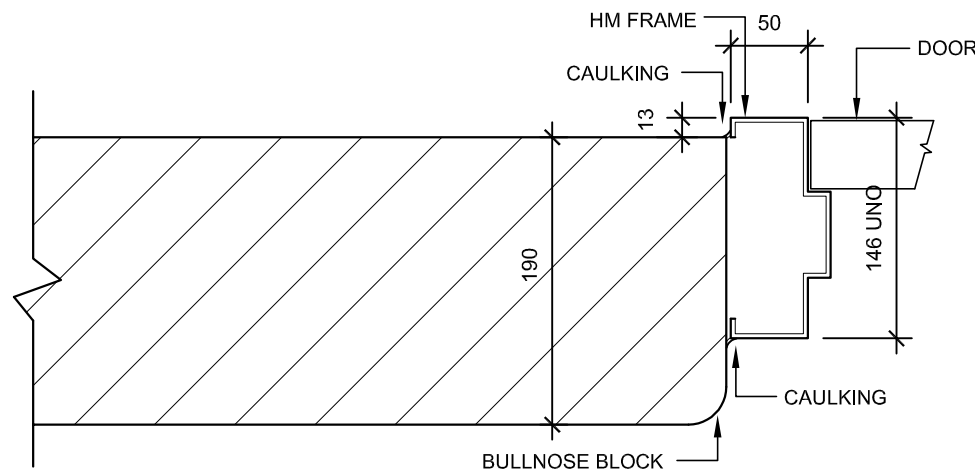
DOOR TYPES



FRAME TYPES



NOTE:
FOR REPLACING NEW DOORS - PLEASE VERIFY WIDTH AND HEIGHT ON SITE.



TYPICAL HM FRAME PLAN DETAILS

DOOR/FRAME TYPES

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR FINISH		WALLS		CEILING			REMARKS
		FINISH	BASE	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
GROUND FLOOR									
115	GYMNASIUM	SP FLR	RB	EX CONC. BLOCK	PAINT	EX MTL DECK	PAINT	5500 (EX)	
115A	RECORDS ROOM	EX	EX	EX CONC. BLOCK	EX	EX MTL DECK	EX	3050 (EX)	
115B	STAFF WASHROOM	PT	PT	EX CONC. BLOCK	PAINT	GYP. BOARD	PAINT	2745	
115C	SERVER ROOM	EX	EX	EX CONC. BLOCK	PAINT	EX	—	2530 (EX)	PAINT NEW INFILL WALL AND ADJACENT EX WALLS ONLY
115D	SNUZZLE ROOM	EX TERR	EX TERR	EX CONC. BLOCK	PAINT	EX ACT	—	2440 (EX)	
115E	GYMNASIUM EQUIPMENT	EX TERR	EX TERR	EX CONC. BLOCK	PAINT	ACT-1	—	2440	NEW CEILING HEIGHT TO MATCH EXISTING
115F	GYMNASIUM EQUIPMENT	EX TERR	EX TERR	EX CONC. BLOCK	PAINT	EX ACT	—	2440 (EX)	

ROOM FINISH SCHEDULE NOTES

1. SCHEDULES ARE TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
2. PAINT ALL EXPOSED MISCELLANEOUS METALS AND SERVICES (E.G. DUCTS, CONDUITS, PIPING, ETC.) WHERE CEILINGS AND WALLS ARE SCHEDULED TO BE PAINTED.
3. EXISTING WALLS SHALL BE CHASED AND OPENINGS CREATED AS REQUIRED TO EXECUTE THE WORK.
4. MAKE GOOD ALL MATERIALS AND FINISHED WHERE DISTURBED AND ALTERATIONS OCCUR. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR FULL EXTENT OF WORK REQUIRED. NOTE THAT MAKING GOOD INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF SERVICES SHOWN ON DRAWINGS.



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

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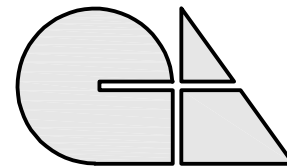
NO	REVISIONS	DATE
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ST. PHILOMENA
CATHOLIC ELEMENTARY
SCHOOL
GYM AND HVAC UPGRADES

1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

ROOM FINISH AND DOOR
SCHEDULES

GRGURIC
ARCHITECTS
INCORPORATED



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SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN DW	DRAWING: A8.00
CHECKED J.G.	
PRINT DATE	02/01/24

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A8.00-Schedule02/01/24

GENERAL NOTES

1. THESE DOCUMENTS ARE TO BE USED ONLY BY THE PARTY WITH WHOM DFE HAS ENTERED INTO A CONTRACT.
2. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN.
3. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE LATEST EDITION INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY. CONSTRUCTION PRACTICES SHALL BE ACCORDING TO THE SAME. USE THE LATEST VERSIONS OF STANDARDS AND CODES LISTED BELOW.
4. DO NOT SCALE THESE DRAWINGS. ERRORS MADE BECAUSE OF SCALED THESE DRAWINGS ARE RESPONSIBILITY OF THE PARTY WHO USED THE DRAWINGS.
5. WHERE DISCREPANCIES EXIST, THE MOST STRINGENT SHALL PREVAIL. NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. STRUCTURAL DRAWINGS TO BE USED TOGETHER WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
7. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF HOLES, SLUMP PITS, TRENCHES, CURBS, BOLTS, SLEEVES, OPENINGS, ETC.
8. THE CONTRACTOR SHALL BECOME FAMILIARIZED WITH THE PROJECT ON SITE, INCLUDING EXISTING CONSTRUCTION, ANY ALTERATIONS FROM ASSUMED IN THE DRAWINGS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. THE ENGINEER MUST APPROVE SUBSTITUTIONS FOR SPECIFIED PRODUCTS AND MATERIALS.
10. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PRACTICES - OREG 21391.
11. THE CONTRACTOR SHALL PROVIDE DESIGN AND CONSTRUCTION OF HORIZONTAL AND VERTICAL SHORING AND TEMPORARY BRACING AS PER OREG 21391. THE CONTRACTOR SHALL PROVIDE BRACING, SHORING, SHEET PILING ETC. TO PROTECT EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.
12. AN INDEPENDENT INSPECTION AND TESTING COMPANY SHALL PROVIDE TESTS TO PROVE THAT CONSTRUCTION IS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE BELOW.
13. DOYTCH & FILO ENGINEERING WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION, DOYTCH & FILO ENGINEERING WILL REVIEW SHOP DRAWINGS FOR GENERAL CONFORMITY WITH THE CONTRACT DOCUMENTS PREPARED BY DOYTCH & FILO. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DOYTCH & FILO IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REVIEWED SHOP DRAWINGS DO NOT RELIEVE CONTRACTOR FROM RESPONSIBILITY FOR THEIR MISTAKES.
14. SHOP DRAWINGS MUST BE SEALED BY PROFESSIONAL ENGINEER BEFORE BEING SUBMITTED TO DFE FOR REVIEW, U.N.O.
15. THE OWNER AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS, AND THEY SHALL INVITE THE ENGINEER TO COMPLETE GENERAL REVIEWS.

FOUNDATIONS

1. ALL FOOTINGS SHALL BEAR DIRECTLY ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL, WITH A MINIMUM SOIL BEARING CAPACITY OF: 100 kPa (SL/S) AND 150 kPa (UL/S) AT MIN. 1.2m BELOW GROUND.
2. BOTTOM OF THE FOOTINGS SHALL BE BELOW THE LEVEL OF FREEZING DEPTH, BUT A MINIMUM 1200 mm (4'-0") BELOW FINISHED EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
3. PROTECT ALL SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOUNDATIONS DURING CONSTRUCTION.
4. INSULATION IS SHOWN WHERE REQUIRED FOR PROTECTION OF THE FOUNDATIONS FROM DAMAGE DUE TO FROST ACTION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. THE BEARING SOIL HAS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE POURING THE FOOTINGS.
6. ALL ORGANIC TOPSOIL AND LOOSE FILL TO BE REMOVED FROM THE SITE BEFORE CONSTRUCTION.
7. WHERE APPROVED, GRANULAR FILL UNDER ALL FOOTINGS ON GRADE SHALL BE COMPACTED IN 150 mm (6") LAYERS TO SPECIFIED IN THE SOILS REPORT STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD).
8. PLACE BOTTOM OF NEW FOOTINGS AT THE SAME ELEVATION AS THE EXISTING ADJACENT FOOTINGS, UNLESS NOTED OTHERWISE. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED 1 VERT. TO 2 HOR. (2:00). W/ SOIL'S CONSULTANT), AND MAX HEIGHT OF ONE STEP TO BE 600mm.
9. SLABS ON GRADE

- A. PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUPPORTING 25 kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
- B. PPOOF-HILL, EXISTING FILL MATERIAL. REMOVE ANY LOOSE OR SETTLED AREAS BENEATH SLAB-ON-GRADE BEFORE PLACING GRANULAR FILL.
- C. APPROVED GRANULAR FILL UNDER ALL SLABS ON GRADE SHALL BE COMPACTED TO 150 mm (6") LAYERS TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMD).
- D. BEFORE CASTING THE SLAB PLACE 200 mm (8") OF 19 mm (3/4") CLEAR CRUSHED STONE OVER THE SUB-BASE AND THOROUGHLY ROLL AND CONSOLIDATE TO THE LEVELS REQUIRED.
10. FOUNDATION WALLS WITH BACKFILL ON BOTH SIDES TO BE BACKFILLED SYMMETRICALLY, UNLESS TEMPORARY SHORING FOR THE WALL IS PROVIDED.
11. ANY HORIZONTAL CONSTRUCTION JOINTS IN FOUNDATION WALLS TO BE APPROVED BY THE ENGINEER.
12. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVERED RETAINING WALLS) UNTIL THE WALLS AND THE FLOOR CONSTRUCTIONS AT THE TOP AND BOTTOM OF THE WALLS HAVE BEEN CAST AND HAVE ATTAINED 100% OF THEIR DESIGN STRENGTH.

ABBREVIATIONS

AB	ANCHOR BOLT	HD	HOOKED
ALT.	ALTERNATE	ID	INSIDE DIAMETER
ALUM.	ALUMINUM	KN	KILONEWTON
ANCHS	ANCHORS	KPa	KILOPASCAL
APPROX.	APPROXIMATELY	ANGLE	ANGLE
ARCH	ARCHITECTURAL	L, L.H.	LONG LEG HORIZONTAL
B/F	BOTTOM FACE	L.V.L.	LONG LEG VERTICAL
B.P.L	BASE PLATE	L.P.	LOW POINT
B.LK	BLUCK	LG	LONG
BLM	BEAM	MAX	MAXIMUM
BOT	BOTTOM	MECH/ELECT	MECHANICAL/ELECTRICAL
BRS	BEARING	MT	MINUTAL
B.T.P.L	RENT PLATE	MIN	MINIMUM
C/W	COMPLETE WITH	MISC.	MISCELLANEOUS
C/C	CENTRE TO CENTRE	m	METRE
C.J.	CONTROL JOINT	mm	MILLIMETRE
C.LG	CEILING	Mpa	MEGAPASCAL
COL	COLUMN	N/C	NOT IN CONTRACT
CONC	CONCRETE	N.T.S.	NOT TO SCALE
CONN	CONNECTION	No.	NUMBER
CONSTRN	CONSTRUCTION	O.C.	ON CENTRE
CONT.	CONTINUOUS	O.D.	OUTSIDE DIAMETER
CRASH	CRASH/CLUTTER	O.H.	OVERHEAD
DET.	DETAIL	OWS/OPEN WEB	STEEL JOIST
DIA.	DIAMETER	PARTN	PARTITION
DIM.	DIMENSION	PL	PLATE
DO	OTTO	R.C.	REINFORCED CONCRETE
DP	DEEP	R.D.	ROOF DRAIN
DWG.	DRAWING	R.O.	ROUGH OPENING
DWL	DOWEL	REF.	REFERENCE
E.F.	EACH FACE	REINF.	REINFORCED
E.J.	EXPANSION JOINT	REQUIRED	REQUIRED
ELEC.	ELECTRICAL	S.C.	SAWCUT
EMBED	EMBEDMENT	S.D.F.	STEP DOWN FOOTING
E.S.	EACH SIDE	SECT.	SECTION
EW	EACH WAY	S.L.H.	SHORT LEG HORIZONTAL
EA	EACH	S.L.V.	SHORT LEG VERTICAL
EL	ELEVATION	S.O.G	SLAB ON GRADE
EQ	EQUAL	STL	STEEL
EXT.G	EXISTING	STIFF.	STIFFENER
F.F.	FACE TO FACE	STRUCT.	STRUCTURAL
FIN.	FINISHED	T/O	TOP OF
FLR	FLOOR	T.L.L.	TOP LOWER LAYER
FNDA.	FOUNDATION	T.U.L.	TOP UPPER LAYER
FTG	FOOTING	TYP	TYPICAL
GA	GAUGE	U.N.	UNLESS NOTED OTHERWISE
GALV	GALVANIZED	U/S	UNDERSIDE
GRD	GRADE	VERT	VERTICAL
HD	HEAVY DUTY	V.E.F.	VERTICAL EACH FACE
HD.G.	HOT DIPPED GALVANIZED	V.H.F.	VERTICAL INSIDE FACE
H.E.F.	HORIZONTAL EACH FACE	V.O.F.	VERTICAL OUTSIDE FACE
H.O.F	HORIZONTAL OUTSIDE FACE	W.P.	WORKING POINT
HORIZ.	HORIZONTAL	W.W.M	WELDED WIRE MESH
HP	HIGH POINT	@	SPACED AT
HSS	HOLLOW STRUCTURAL STEEL		

CAST-IN-PLACE CONCRETE AND REINFORCING

1. ALL CONCRETE WORK TO CONFORM TO THE LATEST REQUIREMENTS OF CSA STANDARDS A23.1, A23.2 & A23.3.

CONCRETE MIX PROPERTIES TABLE					
CONCRETE	MIN 28 DAYS STRENGTH (MPa)	SLUMP mm	AIR CONTENT (%)	MAX AGGREGATE SIZE (Ø)	EXPOSURE CLASS
EXPOSED FOUNDATION WALLS, RETAINING WALLS, CAISSONS	25	80 (130)	4.7	3/4"	F-2
INTERIOR COLUMNS / WALLS / PILE CAPS, FOUNDATION WALLS / BEAMS	35	80 (130)	0	3/4"	N
INT. S.O.G.	25	80 (130)	0	3/4"	N
FREEZE / THAW EXPOSURE	25	80 (130)	4.7	3/4"	F-2
EXTERIOR SLAB (UNREINFORCED)	32	80 (130)	5.8	3/4"	C-2
EXTERIOR SLAB (REINFORCED)	35	80 (130)	5.8	3/4"	C-1
NON-SHRINKABLE GROUT	30	AS PER MANUF. RECOMMEND.	0	-	N
LEAN MIX CONCRETE	4	80 (130)	0	-	N
SPREAD FOOTINGS	25	80 (130)	4.7	3/4"	N
STRIP FOOTINGS, MATT PADS	25	80 (130)	4.7	3/4"	N

2. WELDED WIRE FABRIC SHALL CONFORM TO CAN/CSA C30.5 WITH A MINIMUM YIELD STRENGTH OF FY = 450 MPa. WELDED WIRE FABRIC SHEETS SHALL BE LAPPED A MINIMUM OF 150mm (6") AT JOINTS (U.N.O.).
3. REINFORCING BARS SHALL CONFORM TO CAN/CSA G30.18 GRADE 400W FOR REINFORCING STEEL WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.
4. INSTALLATION OF THE REINFORCING STEEL SHALL CONFORM TO THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE".
5. ALL REINFORCING LAP SPLICES SHALL CONFORM TO THE LATEST CSA STANDARD A23.3 AND ALL BAR SPLICES SHALL BE CLASS "B" TENSION SPLICES (U.N.O.).
- a. NO BAR SPLICES SHALL BE LESS THAN IN THE TABLE BELOW.
- b. INCREASE HORIZONTAL SPLICE LENGTHS IN THE TABLE BY 1.3 WHERE MORE THAN 300mm (12") OF FRESH CONCRETE IS CAST BELOW THE SPLICE.

CONCRETE REBAR SIZE	TENSION SPLICE			COMPRESSION SPLICE
	25 MPa	30 MPa	35 MPa	
10M	400 (16")	400 (16")	400 (16")	450 (18")
15M	600 (24")	600 (24")	600 (24")	450 (18")
20M	800 (32")	800 (32")	800 (32")	600 (24")
25M	1200 (48")	1100 (44")	1000 (40")	750 (30")
30M	1400 (56")	1300 (52")	1200 (48")	900 (36")
35M	1650 (66")	1500 (60")	1400 (56")	1050 (42")

6. EMBEDMENT OF DOWELS SHALL BE MIN. EQUAL TO TENSION SPLICE LENGTH, UNLESS NOTED OTHERWISE.
7. REINFORCING BARS TO BE SYMMETRIC OVER SUPPORTS AND SYMMETRIC IN SPANS, UNLESS NOTED OTHERWISE.
8. REINFORCING STEEL SHALL BE FIXED IN PLACE DURING PLACEMENT OF CONCRETE. BAR SUPPORTS SHALL BE STEEL, CONCRETE OR PLASTIC.
9. THE REINFORCING STEEL SHALL BE CLEARED FROM OIL, GREASE, RUST AND DEBRIS BEFORE PLACEMENT OF CONCRETE.
10. CONCRETE PROPERTIES
- a. ALL CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 35MPa UNLESS OTHERWISE SPECIFIED.
11. THE SLUMP SHOWN IN THE TABLE MAY BE INCREASED WHEN SUPER PLASTICIZER IS USED.
12. DO NOT ADD WATER TO CONCRETE. UNLESS WRITTEN APPROVAL GIVEN BY THE ENGINEER, IF HIGHER SLUMP CONCRETE IS DESIRED, CONTRACT SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
13. CONCRETE FORMWORK TOLERANCES SHALL CONFORM TO CSA STANDARD A23.1, UNLESS NOTED OTHERWISE.
14. CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1 SECTION 7.4.
15. VIBRATE ALL CONCRETE AT THE TIME OF POURING.

16. CONTROL JOINTS IN SLABS ON GRADE SHALL BE MIN. 1/3 (SEE TYP DETAIL). MAX. DISTANCE BETWEEN CONTROL JOINTS IN SLABS ON GRADE SHALL BE LESS THAN THE GREATER OF 25 x 1/3 OR 300 mm (10'-0") UNLESS NOTED OTHERWISE.
17. SUPPLY AND SET ANCHOR BOLTS, P.C. CONNECTIONS, SLEEVES, PIPE HANGERS, JOISTS AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE.
- FOR BEAMS AND COLUMNS, NO SLEEVES, DUCTS, PIPES OR OTHER OPENINGS SHALL PASS VERTICALLY OR HORIZONTALLY EXCEPT WHERE EXPRESSLY DETAILED ON STRUCTURAL DRAWINGS OR WHERE APPROVED IN ADVANCE BY ENGINEER.
- FOR SLABS AND WALLS, ALL SLEEVES AND OPENINGS GREATER THAN 100 mm (4") IN ANY DIMENSION OR REQUIRING THE CUTTING OF ANY REINFORCEMENT, AND NOT INDICATED ON STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE ENGINEER.
- FOR WALL TOPS, OPENINGS OR SLEEVES, IF WITHIN 600mm (24") OF EACH OTHER, CONSULT ENGINEER FOR DIRECTION. DO NOT MAKE HOLES IN SLABS CLOSER THAN 1/3 TO EDGE OF COLUMNS.

18. CAST IN ANCHOR BOLTS SHALL CONFORM TO THE LATEST CSA STANDARD G40.21 OR ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 250 MPa AND SHALL BE SET TRUE AS TO LOCATION, ELEVATION AND PROJECTION TO THE FOLLOWING TOLERANCES:
- ANCHOR BOLT LOCATION ± 3mm (1/8")
- ANCHOR BOLT PROJECTION ± 6mm (1/4")
19. CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 1000mm (39'-0"). UNLESS CONTROL JOINTS ARE PROVIDED AS PER TYPICAL DETAIL, TOTAL LENGTH OF POUR TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING.
20. CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY, JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS.
21. INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM, BE SO INSTALLED THAT THEY SHALL NO REQUIRE THE CUTTING, BENDING, OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
22. ELECTRICAL CONDUITS SHALL NOT PASS THROUGH A COLUMN. SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM WHICH IT IS EMBEDDED. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
23. CONFORM TO THE CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND THE FOLLOWING, UNLESS NOTED OTHERWISE:
- FOR CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH - 75mm

- NOTES:
- a. THE SLAB COVERS IN TABLE 1, 2 AND 3 ARE FOR CONCRETE NOT PROTECTED BY A MEMBRANE OR A CORROSION INHIBITOR. FOR PARKING GARAGE SLABS - SEE TABLE 4.
- b. FOR COLUMN COVERS (TO MAIN REINFORCEMENT) EXCEEDING 63mm WITH 4 HOUR FIRE RATING. PROVIDE WIRE MESH USING 1.57mm(100mm EA WAY.
- c. THE COVER FOR A BUNDLE OF BARS SHALL BE THE SAME AS THAT FOR A SINGLE BAR WITH AN EQUIVALENT AREA.
- d. PROVIDE COVER FOR MINIMUM 2 HOURS FIRE RATING UNLESS OTHERWISE NOTED.
- e. REINFORCED CONCRETE WALLS WHICH MAY BE EXPOSED TO FIRE ON BOTH SIDES SHALL TANGENCIALLY SHALL HAVE THE MINIMUM COVER REQUIREMENTS FOR COLUMNS.

CONCRETE AND REINFORCING (cont'd)

TABLE 1 MINIMUM CONCRETE COVER FOR ELEMENTS NOT EXPOSED TO CHLORIDES NOR FREEZING AND THAWING (mm)						
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING		
				<= 2	3	4
WALLS	FOUNDATION WALLS, RETAINING WALLS	NOT CAST AGAINST CONC. FORMWORK (CAST AGAINST LAGGING CAISSON WALL)	ALL BAR SIZES	50		
	FOUNDATION WALLS (ø) RETAINING WALLS AND MISC. WALLS		ø <= 25M	25		
			30M	30		
			35M	35		
COLUMNS	COLUMNS		ø <= 30M	40	55	
			35M			
SLABS AND BEAMS	SLABS		ø <= 25M	25	35	40
			30M	30		
			35M	35		
	BEAMS		ø <= 25M	30	40	
			30M			
			35M	35		
45M	45					

TABLE 2 MINIMUM CONCRETE COVER FOR ELEMENTS EXPOSED TO FREEZING AND THAWING (mm)				
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING
				<= 3 4
WALLS	FOUNDATION WALLS, RETAINING WALLS	NOT CAST AGAINST CONC. FORMWORK (CAST AGAINST LAGGING, CAISSON, WALL)	ALL BAR SIZES	50
	FOUNDATION WALLS, SHEAR WALLS (ø) RETAINING WALLS AND MISC. WALLS		Ø <= 25M	40
			30M	45
COLUMNS	COLUMNS		Ø <= 30M	45
			35M	55
SLABS AND BEAMS	SLABS AND BEAMS		Ø <= 25M	40
			30M	45
			35M	55
			45M	70

TABLE 3 MINIMUM CONCRETE COVER FOR ELEMENTS EXPOSED TO CHLORIDES (mm)				
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING
				<= 4
WALLS	FOUNDATION WALLS, SHEAR WALLS AND MISC. WALLS (e)		Ø <= 25M	60
			30M	60
			35M	70
			45M	90
COLUMNS	COLUMNS		Ø <= 30M	60
			35M	60
			45M	80
			55M	105
SLABS AND BEAMS	SLABS AND BEAMS		Ø <= 25M	60
			30M	60
			35M	70
			45M	90

DESIGN LOADS

1. ROOF:
- DEAD LOAD = 1.65 kPa
- SNOW LOAD = 2.3 kPa
2. SNOW LOAD
- S_s = 2.3 kPa ; S_r = 0.4 kPa ; S_i = 2.58 kPa
- FOR SNOW ACCUMULATION SEE PLAN
3. WIND HOURLY PRESSURE
- q(Ø) = 0.46 kPa
4. SEISMIC LOAD
- S_{m2} = 0.312 ; S_{m3} = 0.152
- S_{e1.0} = 0.07 ; S_{e2.0} = 0.032 ; S_{e3.0} = 0.0074 ;
- S_{e1.0} - 0.0028 ; PGA = 0.202 ; PGV = 0.117
- SEISMIC HAZARD INDEX: Ref ASCE (0.2) = 0.47
- SITE CLASSIFICATION : SITE CLASS "D"

STRUCTURAL STEEL

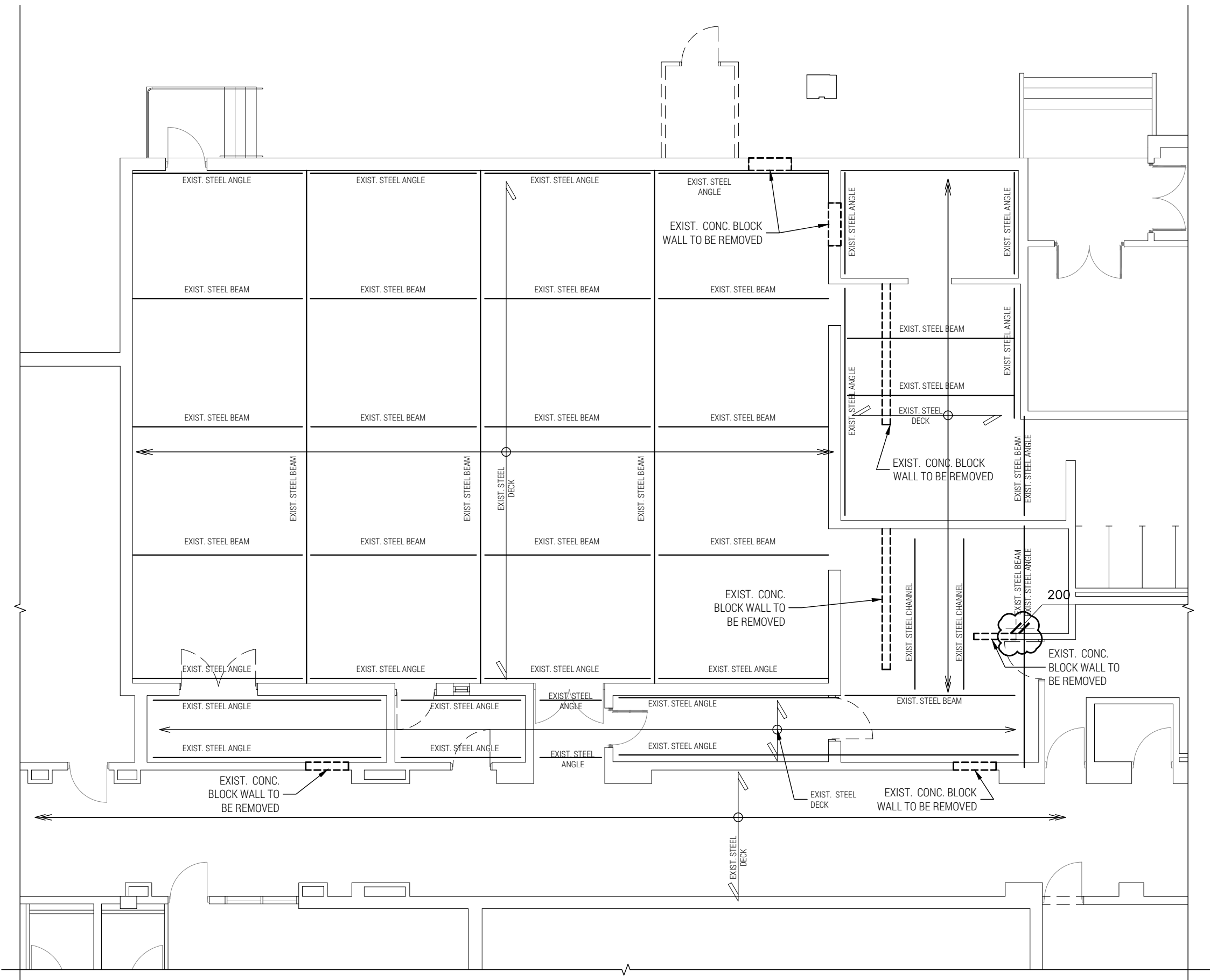
1. ALL STRUCTURAL STEEL AND JOIST DESIGN CONNECTIONS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST CSA STANDARD S16:
- a. REFER ALSO TO NOTES UNDER PLANS.
2. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.20 AND CAN/CSA G40.21
- a. GRADE 50W CLASS C FOR H.S.S.
- b. GRADE 50W FOR W, SHAPES, S, SHAPES, AND TEES
- c. GRADE 50W FOR CHANNELS, ANGLES, PLATES, RODS
3. BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ANCHOR RODS SHALL BE FABRICATED FROM STEEL ROD CONFORMING TO CSA STANDARD G40.21 GRADE 50W.
4. SHEAR STUDS TO CONFORM ASTM A108.
5. WELDING MATERIALS TO CONFORM TO CSA W48.
6. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59.
7. FILLET WELDS SHALL BE 6mm (1/4") MIN. U.N.O. BOLTS SHALL BE A259 10mm (3/4") MIN. U.N.O. BOLTED CONNECTIONS SHALL HAVE MIN. OF TWO BOLTS IN EACH CONNECTED PIECE. BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING CONNECTIONS U.N.O.
8. STEEL COATINGS - STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED TO CONFORM TO CSA STANDARD S16:
- a. INTERIOR STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED AS PER CSA CANVAS 516.
- b. EXPOSED STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE TO CAN/CSA G164. TOUCH UP OF WELDS AND CUTS OF GALVANIZED MEMBERS TO BE DONE WITH A MINIMUM OF 3 COATS OF ZINC RICH PAINT.
- c. INTERIOR STEEL MEMBERS THAT ARE TO BE PROTECTED BY A CEMENTITIOUS FIRE PROOFING SHALL BE CLEANED AND REMAIN UNCOATED.
9. FABRICATOR SHALL DESIGN CONNECTIONS IN ACCORDANCE WITH THE 2012 OBC FOR THE FORCES SHOWN ON THE DRAWINGS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 50% OF THE BEAM SHEAR CAPACITY IF FACTORED DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS.
10. MOMENT FRAMES CONNECTIONS TO BE CONTINUOUS COLUMN / INTERRUPTED BEAM TYPE U.N.O.
11. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT VALUES ARE NOT INDICATED, DESIGN CONNECTIONS FOR 100% SECTION CAPACITY OF THE SMALLER MEMBER JOINED.
12. COLUMN CAP PLATES TO BE MIN. 16mm (5/8") THICK U.N.O. COLUMN BASE PLATES TO BE MIN. 20mm (3/4") THICK U.N.O. HSS COLUMNS TO HAVE MIN. 10mm (3/8") THICK CAP PLATE WELDED ALL AROUND U.N.O.
13. ALL BEAMS CANTILEVERED OR CONTINUOUS OR SUPPORTED OVER A COLUMN OR OTHER SUPPORT, AND BEAMS SUPPORTING POINTS OF CONCENTRATED LOAD, SHALL HAVE A MIN. OF 2-10 mm (3/8") STIFFENERS EACH SIDE OF WEB U.N.O.
14. TOP OF COLUMNS WHICH ARE NOT BRACED BY JOISTS OR BEAMS SHALL BE BRACED DIAGONALLY TO THE ROOF OR FLOOR FOR A MINIMUM OF 4.2% x 176 x 64 mm (12.3 x 1/4") ANGLES FOR INTERIOR COLUMNS, A MINIMUM 2.476 x 76 x 64 mm (0.3 x 1 x 1/4") ANGLES FOR EXTERIOR COLUMNS. BRACING SHALL BE BETWEEN TOP OF COLUMN AND TOP CHORD OF JOISTS.
15. COLUMNS BUILT INTO MASONRY / BRITTED BY OR FACED WITH MASONRY WALLS SHALL HAVE ADJUSTABLE ANCHORS AT 400 mm (16") O.C. SPACED VERTICALLY. WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY, ANCHORS SHALL ALLOW VERTICAL MOVEMENT BETWEEN STEEL MEMBERS AND MASONRY.
16. BEARING PLATES ARE TO BE CENTRED BELOW ALL BEAMS OR LINTELS U.N.O. ON THE DRAWINGS. WELD TO BEARING PLATE WITH A MINIMUM 50 mm x 5 mm (2" x 3/16") FILLET ON BOTH SIDES OF BEAM.
17. STEEL BEAMS AND LINTELS SHALL HAVE 200 mm (8") MINIMUM END BEARING ON MASONRY AND 65 mm (2 1/2") MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.
18. WHERE BACK TO BACK ANGLES ARE USED AS LINTELS OR SUPPORTS, STITCH WELD TOGETHER AT A MAXIMUM SPACING OF 300mm (12") O.C.
19. ALL ROOF OPENINGS TO BE REINFORCED BY FRAMES PER TYP. DETAIL UNLESS NOTED OTHERWISE. MAXIMUM SPAN 2000 mm (6'-4") FOR LARGER OPENINGS, CONTACT ENGINEER. COORDINATE WITH MECHANICAL, ELECTRICAL AND SUB-TENDS TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS.
20. PROVIDE TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB UNTIL PERMANENT BRACING SHOWN ON DRAWINGS INCLUDING FLOORS AND ROOFS IS CONSTRUCTED.

METAL DECK

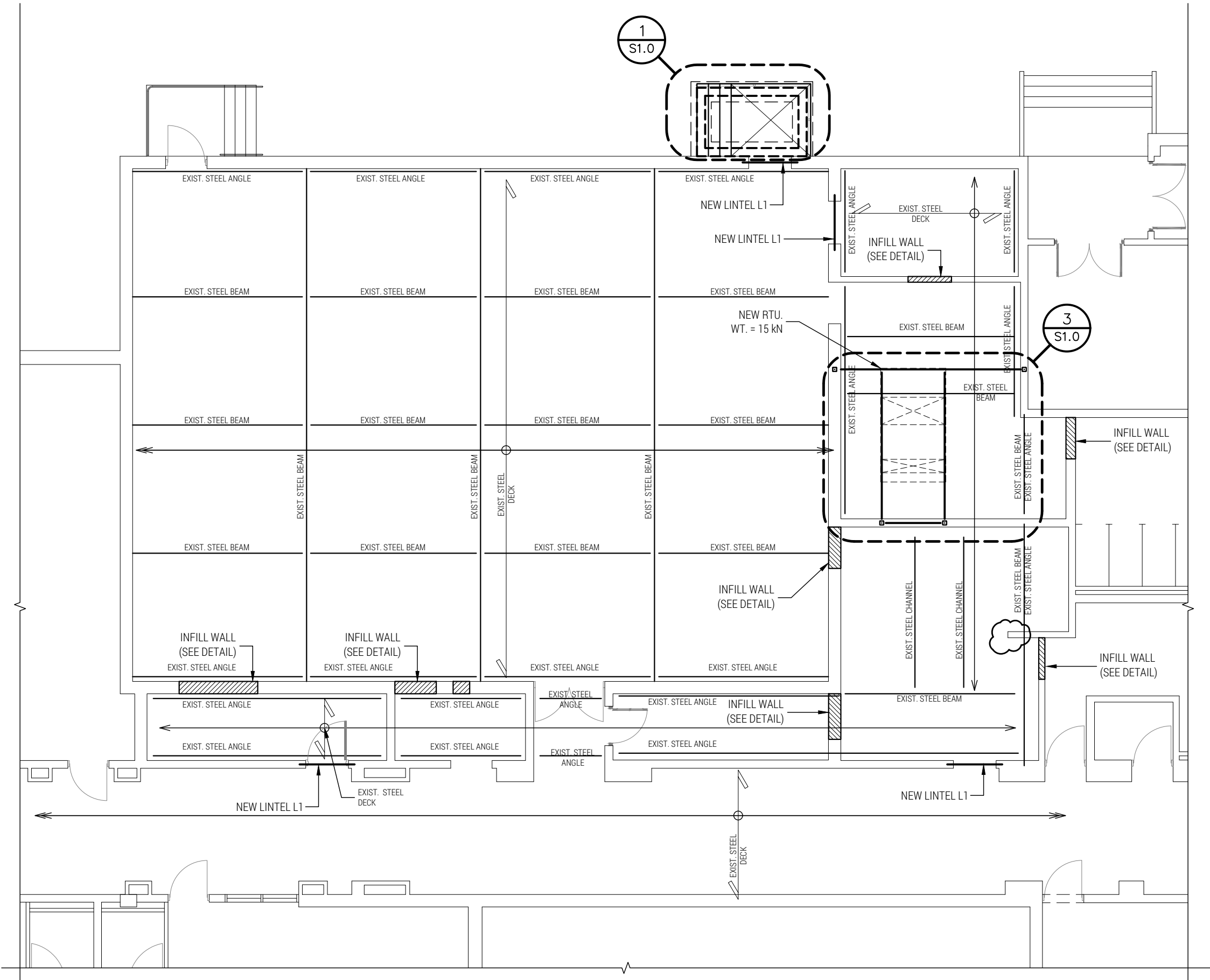
1. DESIGN METAL DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CSA S136 FOR THE LOADS INDICATED ON THE DRAWINGS.
2. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 38 mm x 0.91 mm (1.5" x .036") VIC. WEST STEEL INC. RD 938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.
3. UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE 38 mm x 0.76 mm (1.5" x .030") VIC. WEST STEEL INC. HB98 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.
4. METAL DECK SHALL BE LIGHT ZINC COATED STRUCTURAL STEEL SHEET FABRICATED AND ERECTED IN ACCORDANCE WITH CSBBI 101M, CAN/CSA S136, AND CSBBI 101M. THE MINIMUM ZINC COATING DESIGNATION SHALL BE 3575 (U.N.O.).
5. DECK SHALL OVERLAP A MINIMUM OF 50 mm (2") AT ALL END JOINTS AND HAVE A MINIMUM BEARING LENGTH OF 50 mm (2") ON ALL STRUCTURAL STEEL.
6. DECK HAS BEEN DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED AS FOLLOWS U.N.O.: WELD DECK TO SUPPORTING STEEL WITH 20 mm (3/4") DIAMETER PLUG WELD AT TRANSVERSE WELD SPACING - 300 mm (12") O.C. PERIMETER WELD SPACING - 300 mm (12") O.C. SIDE LAP BOTTOM PLACING - 300 mm (12") O.C. LONGITUDINAL WELD SPACING - 300 mm (12") O.C.
7. DECK WELDS SHALL BE TOUCHED UP WITH APPROVED PAINT BY THE DECK ERECTOR.
8. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.
9. CUT OPENINGS AND REINFORCE EDGES AS REQUIRED FOR PIPES, DUCTS, ETC.
- A. THE MAXIMUM SIZE OF ALL UNREINFORCED OPENING IS 16 mm (5/8").
- B. REINFORCE ALL OPENINGS LARGER THAN 150mm (6"), BUT NOT EXCEEDING 450 mm (18"), AS INDICATED BY THE METAL DECK SUPPLIER.
- C. FOR OPENINGS GREATER THAN 450mm (18") NOT SHOWN ON THE DRAWINGS, CONTACT ENGINEER FOR DIRECTION.
10. HANGER WIRE FOR SUSPENDED CEILINGS SHOULD PERCE BOTH SIDES OF THE FLUTE AND BE LOOPED AROUND AND TIED.

MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO THE CSA CAN/CSA A165 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa BASED ON NET CROSS-SECTIONAL AREA.
2. REINFORCING BARS SHALL CONFORM TO CAN/CSA G30.18 GRADE 400W FOR REINFORCING STEEL WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.
3. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR LOAD BEARING BLOCK. TYPE N MORTAR SHALL BE USED FOR BRICK VENEER OR DECORATIVE NON-LOAD BEARING BLOCK.
- MORTAR TYPE S: MIN. COMPRESSIVE STRENGTH - 10.0 MPa
- MORTAR TYPE N: MIN. COMPRESSIVE STRENGTH - 7.5 MPa
- GROUT SHALL CONFORM TO CAN/CSA A179
- GROUT MIN. COMPRESSIVE STRENGTH - 20 MPa
4. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS CAN/CSA A370, CAN/CSA A371 AND CSA S304.1.
5. ALL MASONRY WALLS SHALL BE HORIZONTALLY RE

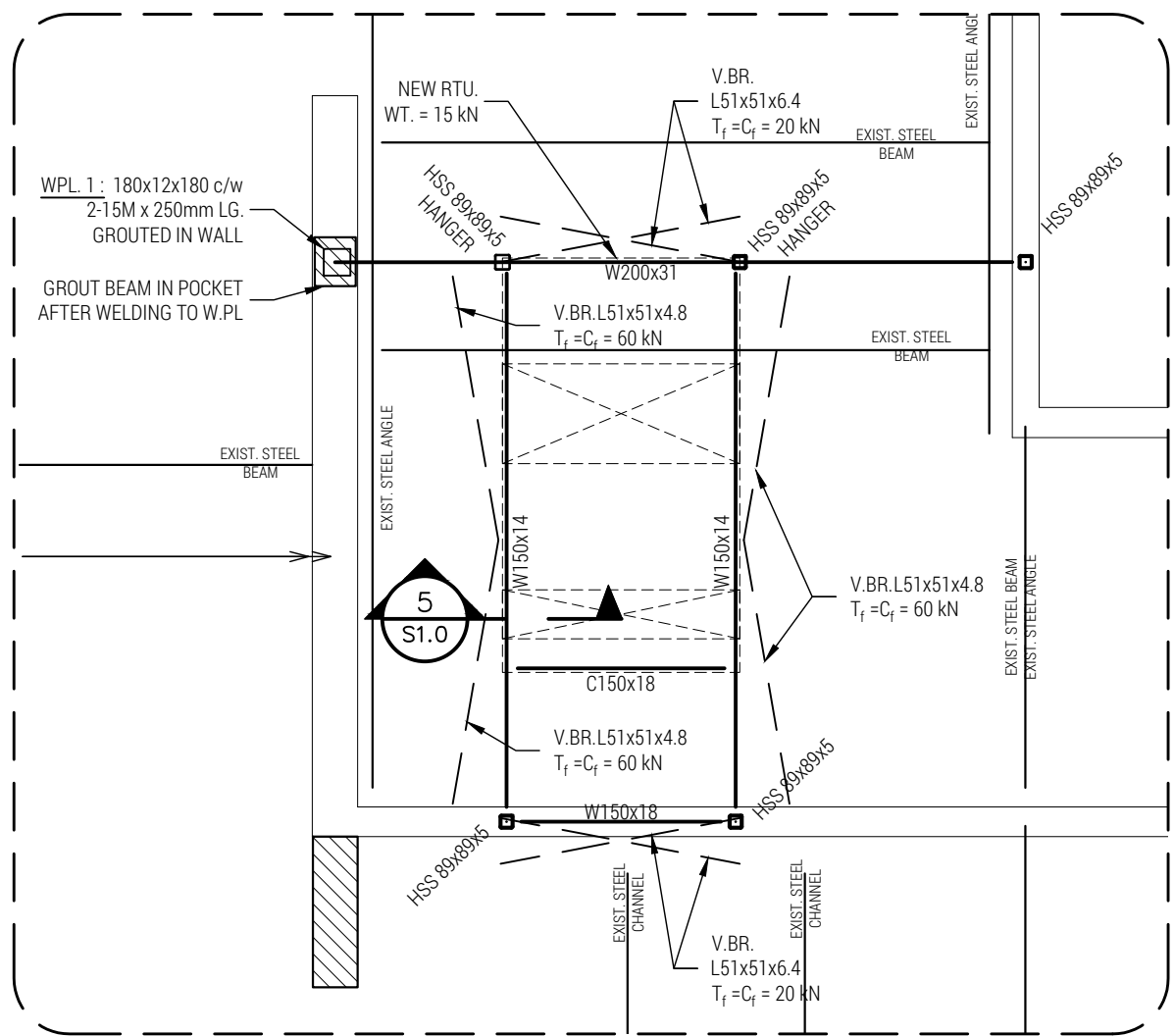


PLAN
DEMOLITION PARTIAL GROUND FLOOR PLAN
PARTIAL ROOF FRAMING PLAN
1:100

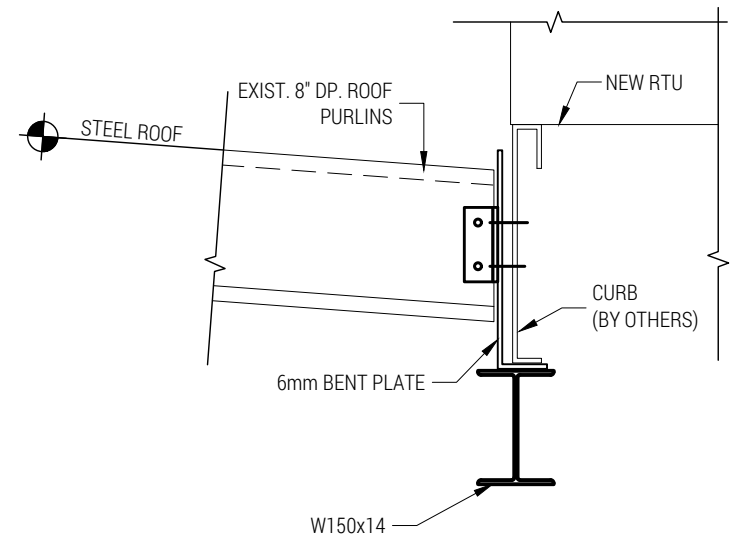


PLAN
PARTIAL GROUND FLOOR PLAN
PARTIAL ROOF FRAMING PLAN
1:100

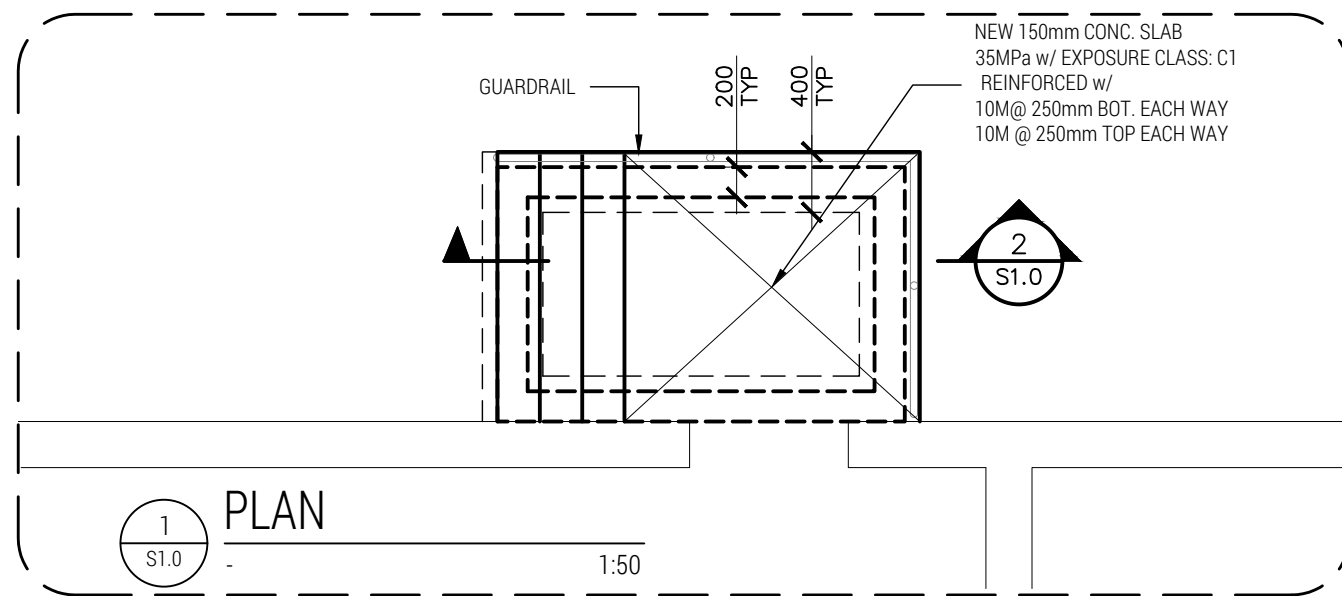
NEW LINTEL L1:
W200x36 + 10mm PLATE AT BOT. FLANGE, WIDTH TO SUIT
MIN. 150mm BEARING LENGTH AT EACH END



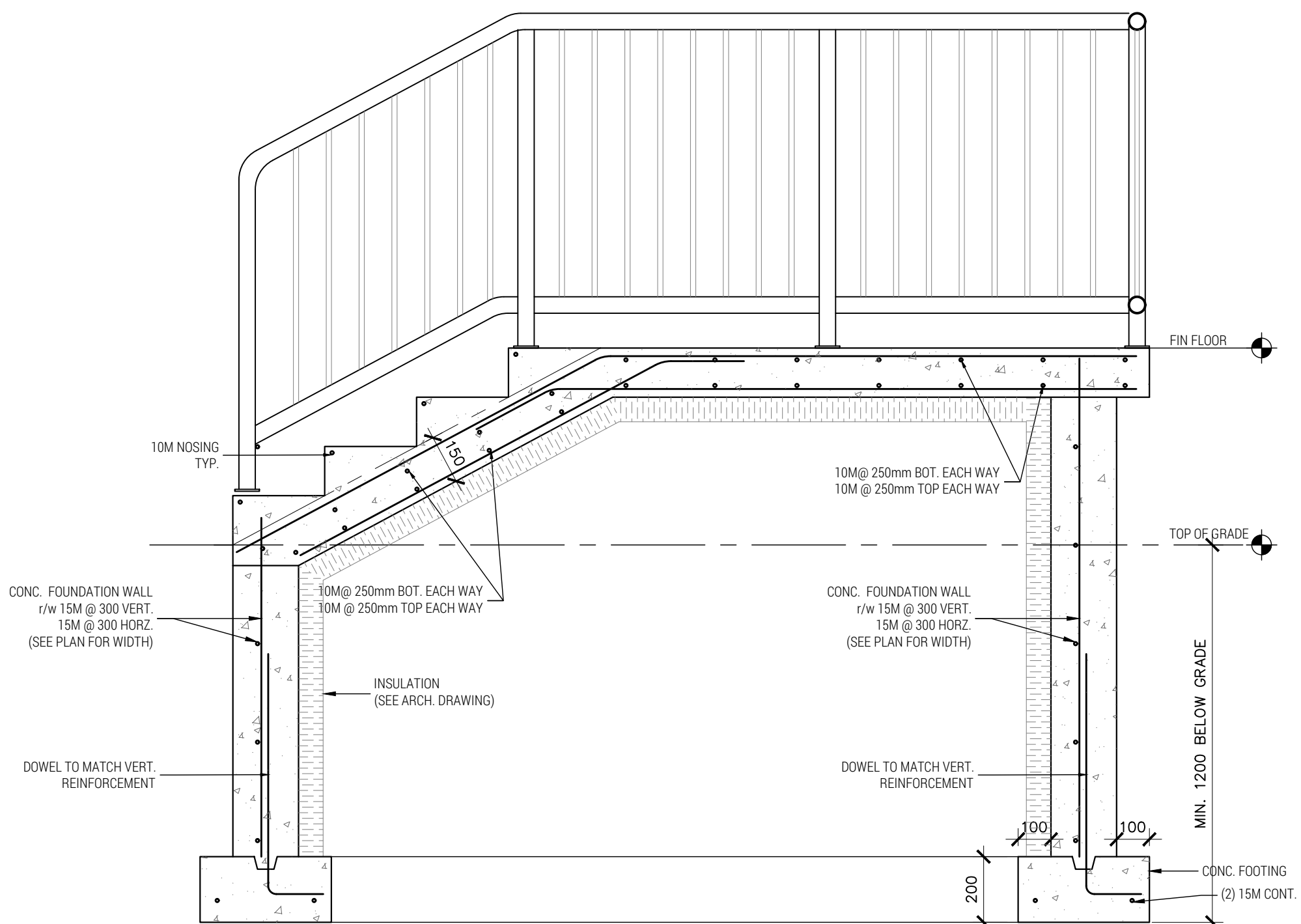
3A PLAN
RTU UPPER SUPPORTING FRAME
1:50



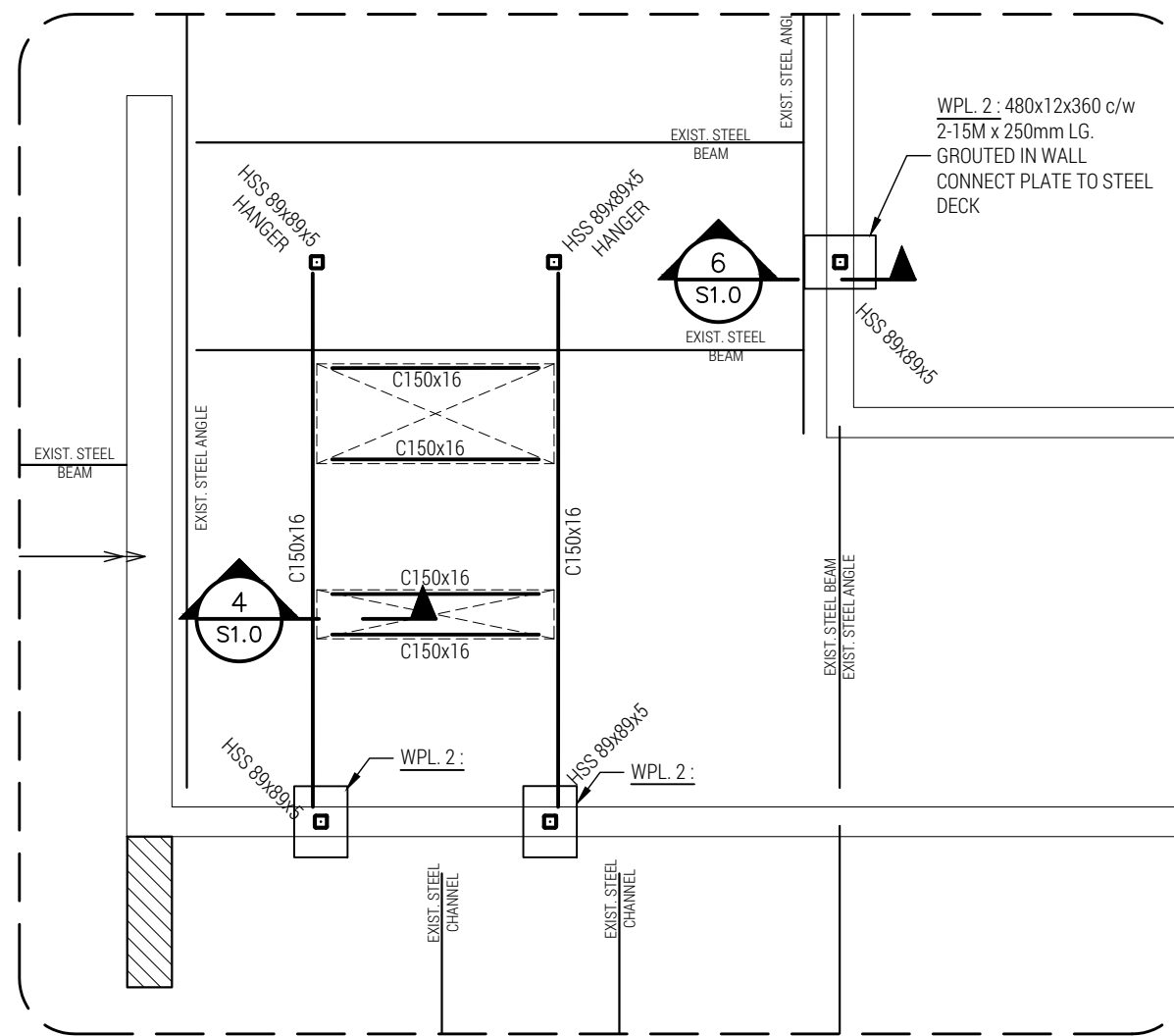
5 SECTION
TYPICAL
1:10



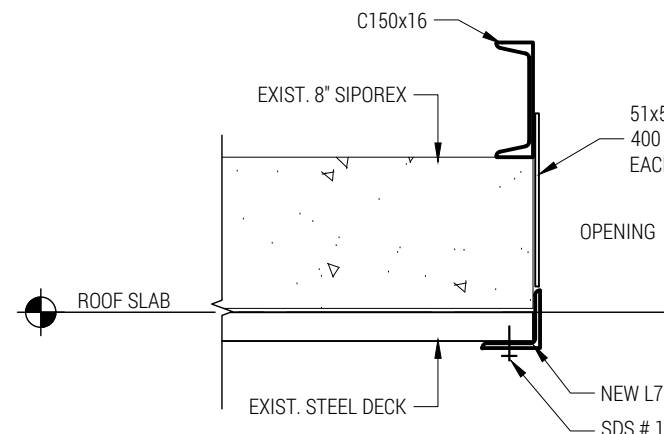
1 PLAN
1:50



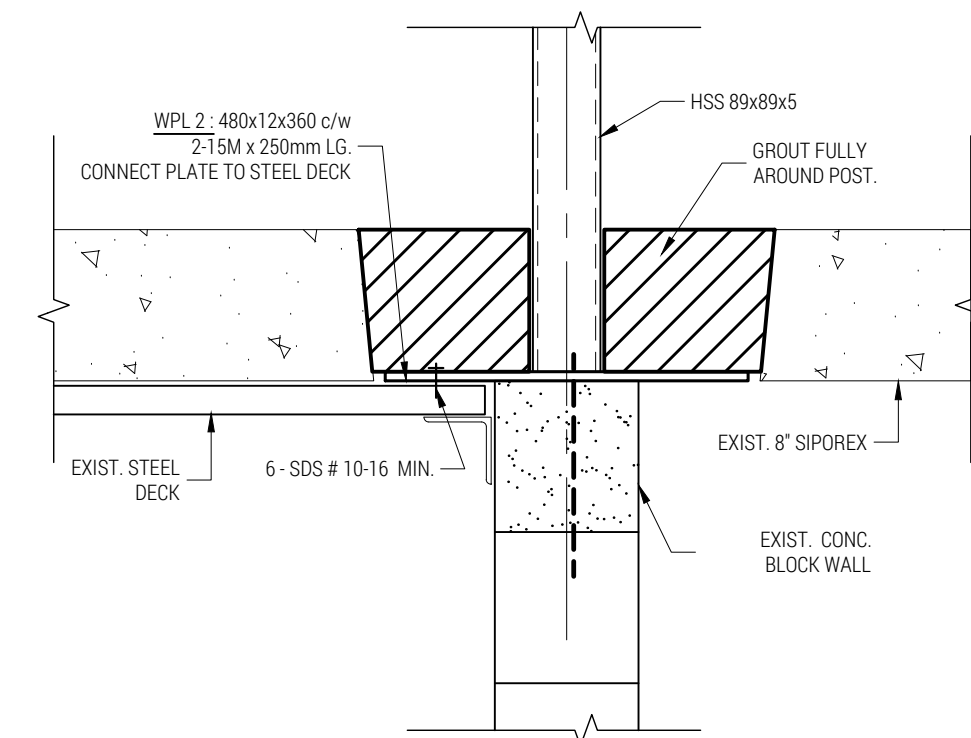
2 SECTION
TYPICAL
1:15



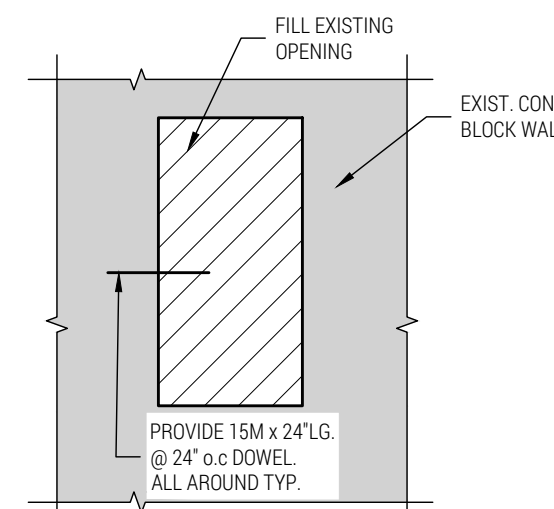
3B PLAN
RTU LOWER SUPPORTING FRAME
1:50



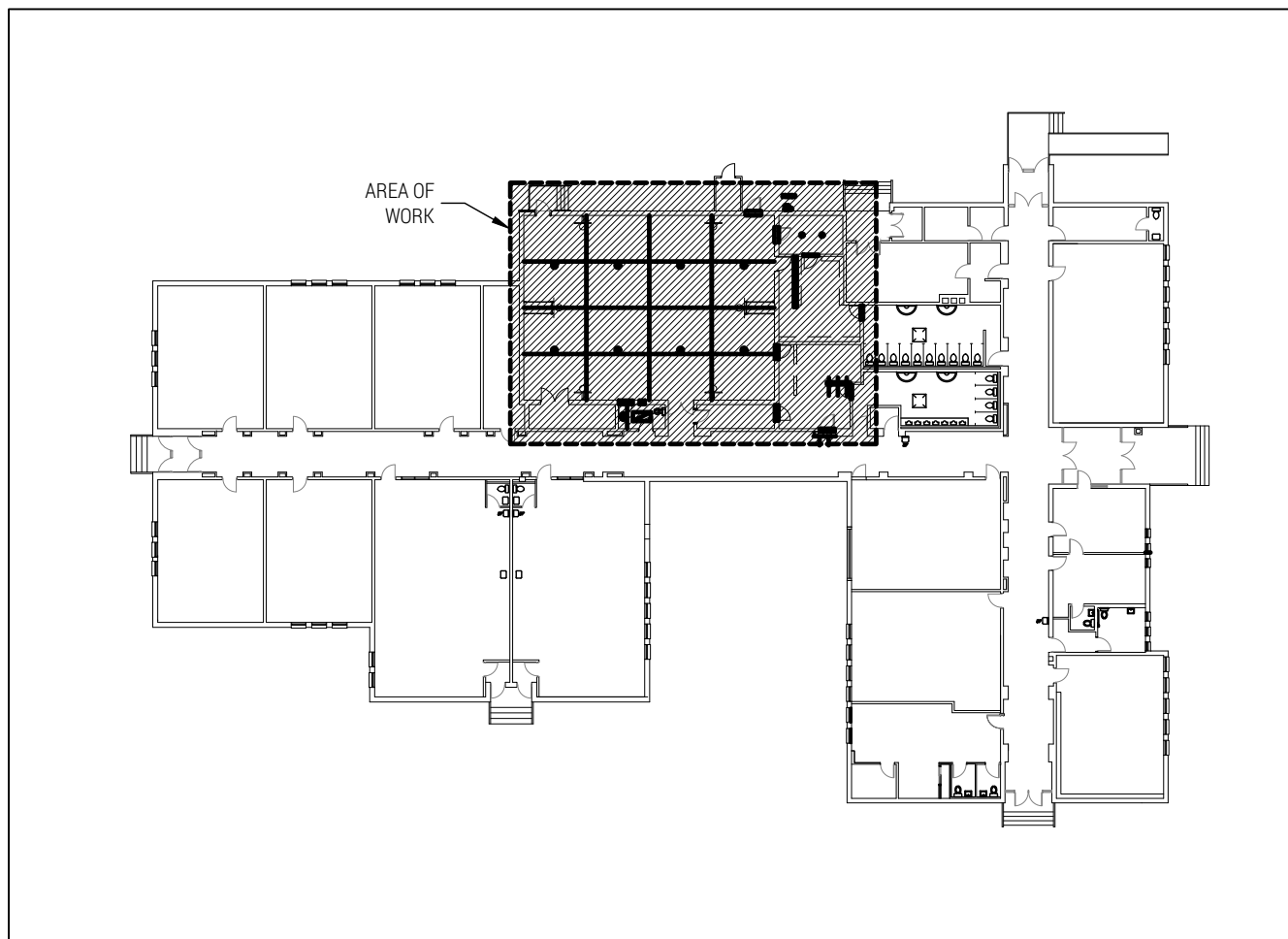
4 SECTION
TYPICAL
1:10



6 SECTION
TYPICAL
1:10



TYPICAL DETAIL
ELEVATION VIEW
INFILL CONCRETE BLOCK



GROUND FLOOR KEY PLAN

NON-LOAD BEARING BLOCK LINTEL SCHED.										
WIDTH	<1220 ($<4'-0"$)	<1830 ($<6'-0"$)	<2440 ($<8'-0"$)	<3080 ($<10'-0"$)	<3660 ($<12'-0"$)	SECTION DETAIL				
100 (4')	VER 1 (1) L80x89x6 (1) L3 1/2x3 1/2x1/4	VER 2 (2) Ls 45x45x5 (2) Ls 3/4x1 3/4x3/16 (1) L25x89x8 (LL.V) (1) L3/2x3 1/2x5/16 (LL.V) (2) Ls 2 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V)	VER 2 (2) Ls 45x45x6 (2) Ls 2 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V)	VER 2 (1) Ls 3 1/2x5/16 (LL.V) (1) Ls 3 1/2x1 1/2x1/4				
	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x3 1/2x5/16 (LL.V)	VER 2 (2) Ls 5x5/16 (LL.V) (2) Ls 2 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x5/16 (LL.V)	VER 2 (2) Ls 5x5/16 (LL.V) (2) Ls 3 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x5/16 (LL.V)	VER 2 (2) Ls 3 1/2x1 1/2x1/4				
150 (6')	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x3 1/2x5/16 (LL.V)	VER 2 (2) Ls 5x5/16 (LL.V) (2) Ls 2 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x5/16 (LL.V)	VER 2 (2) Ls 5x5/16 (LL.V) (2) Ls 3 1/2x1 1/2x1/4	VER 1 (1) L 125x89x8 (LL.V) (1) L 5x5/16 (LL.V)	VER 2 (2) Ls 3 1/2x1 1/2x1/4				
200 (8')	(2) Ls 89x89x6 (2) Ls 3 1/2x3 1/2x1/4	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)				
250 (10')	(2) Ls 102x89x8 (L.H.) (2) Ls 4x3 1/2x1/4 (L.H.)	(2) Ls 102x102x8 (2) Ls 8x4x5/16	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)	(2) Ls 125x89x8 (LL.V) (2) Ls 5x3 1/2x5/16 (LL.V)				
300 (12')	(3) Ls 89x89x6 (3) Ls 3 1/2x3 1/2x1/4	(3) Ls 125x89x8 (LL.V) (3) Ls 5x3 1/2x5/16 (LL.V)	(3) Ls 125x89x8 (LL.V) (3) Ls 5x3 1/2x5/16 (LL.V)	(3) Ls 125x89x8 (LL.V) (3) Ls 5x3 1/2x5/16 (LL.V)	(3) Ls 125x89x8 (LL.V) (3) Ls 5x3 1/2x5/16 (LL.V)	(3) Ls 125x89x8 (LL.V) (3) Ls 5x3 1/2x5/16 (LL.V)				
NOTES:										
1. STRUCTURAL STEEL SHALL BE G40.21.										
2. BEARING LENGTH = 6" AT EACH END.										
3. CONNECT ANGLES @ 24° a/c BY WELDING OR BOLTING FOR ANGLES WITH A TOTAL LENGTH @ 6'-0" OR MORE.										

DO NOT SCALE DRAWINGS. CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION. THE ENGINEER'S OFFICE SHALL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS IN THE DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR THE PROTECTION OF THE SITE. THE CONTRACTOR SHALL NOTIFY OUR OFFICE PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

ISSUE / REVISION LIST:
1. FOR PERMIT 2024-01-19
2. FOR TENDER 2024-01-23

DFE
DOYCH & FILO ENGINEERING INC.
Structural Engineers

**ST. PHILOMENA CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC UPGRADES**
1332 PHILLIPS STREET, FOR ERIE, ONTARIO



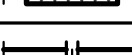
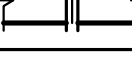
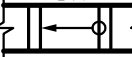
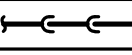


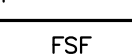
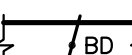
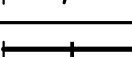
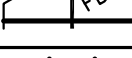
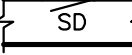

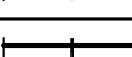
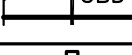
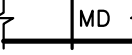

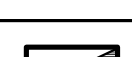
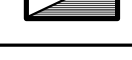
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










REGISTERED PROFESSIONAL ENGINEER
T.N. DOYCH
10011328Z
2024-01-23
PROVINCE OF ONTARIO

Stamp
Design By: TD/AF
PROJECT # : 23090701







































































FLOOR AND ROOF PLANS S1.0

VENTILATION LEGEND



























	SOUND INSULATION
	SILENCER
	FLEXIBLE CONNECTION
	DUCT OFFSET
	DUCT OFFSET (SINGLE LINE)
	TURNING VANES
	VECTROL
	FIRE STOP FLAP
	BALANCING DAMPER
	FIRE DAMPER
	SPLITTER DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE DAMPER
	MOTORIZED DAMPER
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	EXHAUST GRILLE
	DIFFUSER DESIGNATION AND CFM

	GRILLE DESIGNATION AND CFM
	FLEXIBLE ROUND DUCT
	CAPPED END DUCT
	DUCT REDUCER/ENLARGER
	TRANSITION  TO  ROUND
	HEAT PUMP
	FAN COIL UNIT
	CABINET BLOWER FAN
	THERMOSTAT
	THERMOSTAT w/GUARD
	THERMOSTAT c/w SUB BASE
DG	DOOR GRILLE
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
CC	CHEMICAL CABINET
MCC	MOTOR CONTROL CENTRE
FF	FUME HOOD
SH	SUPPLY FAN
EF	EXHAUST FAN
RF	RETURN FAN
CBF	CABINET BLOWER FAN
ADF	ALUMINUM DOME FAN
U.H.	UNIT HEATER
CBV	CIRCUIT BALANCING VALVE
RHC	REHEAT COIL
AHU	AIR HANDLING UNIT
VT	VOLUME TAPPING
DH-1	DUCT HEATER AND DESIGNATION

PLUMBING LEGEND

	STORM ABOVE GRADE
	SANITARY ABOVE GRADE
	STORM BURIED
	SANITARY BURIED
	WEEPING TILE
	PUMPED SANITARY
	PUMPED STORM
	OIL SUPPLY
	OIL RETURN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC RECIRCULATED WATER
	DOMESTIC TEMPERED WATER
	TEMPERED RECIRCULATED WATER
	VENT LINE
	GAS LINE
	EQUIPMENT DRAIN LINE
	FIRE LINE
	SOFTENED COLD WATER
	CLEANOUT
	ACID DRAIN
	AREA DRAIN
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB DRAIN
	PLANTER DRAIN
	RADIOISOTOPE DRAIN
	ROOF DRAIN
	HOSE STATION
	FIRE HOSE CABINET
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER c/w CABINET
	FIRE BLANKET
	RAIN WATER LEADER
	WATER CLOSET
	WATER CLOSET (HANDICAPPED)
	DISTILLED WATER FAUCET
	URINAL
	URINAL w/TANK
	URINAL FLUSH TANK
	SHOWER
	EMERGENCY SHOWER
	LAVATORY
	LAVATORY (HANDICAPPED)
	STAINLESS STEEL SINK
	JANITOR SINK
	LABORATORY SINK
	CUP SINK
	LAUNDRY TUB
	DRINKING FOUNTAIN
	EYE WASH
	EMERGENCY EYE WASH
	WASH FOUNTAIN
	MANHOLE
	CATCHBASIN
	HOT WATER TANK
	FIRE HYDRANT
	FIRE DEPT. SIAMESE CONNECTION
	THRUST BLOCK
	INVERT ELEVATION
	OBVERT ELEVATION
	ABOVE FINISHED FLOOR
	HAND HOLE TRAP
	RUNNING TRAP
	APPROVED BACKFLOW PREVENTOR
	PHOTO MIXING VALVE ASSEMBLY
	HOSE BIBB
	PUMP AND DESIGNATION
	FIRE PUMP
	SHOWER MIXING VALVE















PIPING LEGEND

	HOT WATER SUPPLY (HWS)
	HOT WATER RETURN (HWR)
	EQUIPMENT DRAIN LINE
	NATURAL GAS
	VENT LINE
	BOTTOM TAKE-OFF
	TOP TAKE-OFF
	ELBOW UP
	ELBOW DOWN
	VALVE - SEE SPECIFICATIONS
	UNION CONNECTION
	FLANGED CONNECTION
	PLUG CAP
	LOW WATER CUT OFF
	THERMOMETER
	PRESSURE GAUGE
	PUMP AND DESIGNATION
	AIR VENT
	AUTOMATIC AIR VENT
	PETES PLUG
	FLOW SWITCH
	THERMOSTAT w/GUARD
	ABOVE FINISHED FLOOR
	CIRCUIT BALANCING VALVE
	GALLONS PER MINUTE
	THERMOSTATIC CONTROL VALVE

CONTROL LEGEND

	THERMOSTAT
	THERMOSTAT w/ GUARD
	THERMOSTAT c/w SUB BASE
	HUMIDISTAT
	TEMPERATURE SENSOR
	PRESSURE SWITCH OR SENSOR
	FLOW SWITCH
	ELECTRIC-PNEUMATIC RELAY
	PNEUMATIC-ELECTRIC RELAY
	SMOKE DETECTOR
	SOLENOID VALVE
	FIRESTAT
	FREEZESTAT
	PRESSURE DIFFERENTIAL SWITCH
	MOTORIZED DAMPER
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	HEATING COIL
	COOLING COIL
OA	OUTSIDE AIR
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
	MOTOR
TCV	TEMPERATURE CONTROL VALVE

VALVE LEGEND

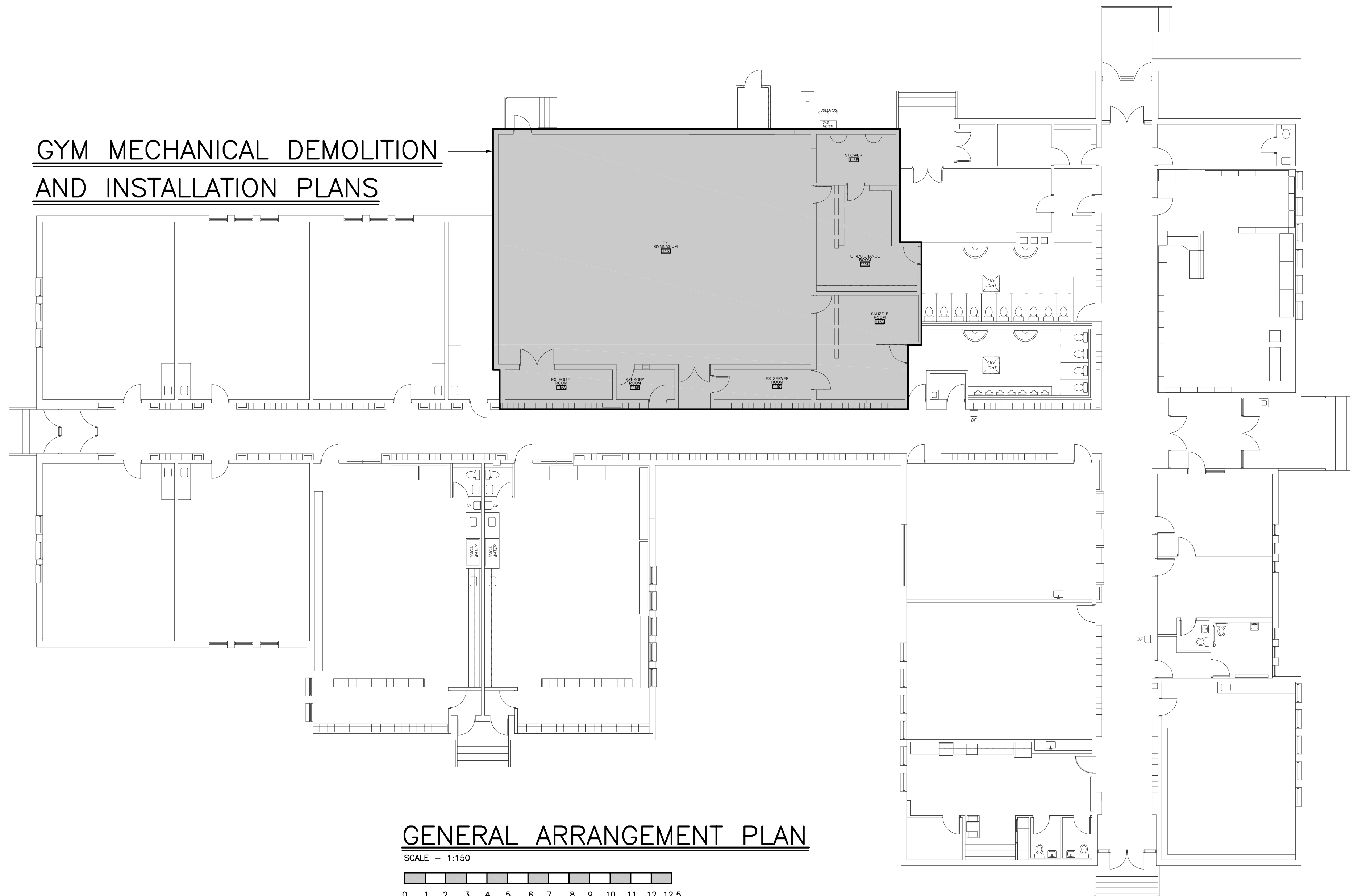
	VALVE - SEE SPEC
	CHECK VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	PLUG VALVE
	SOLENOID VALVE
	NORMALLY CLOSED VALVE
	PET COCK
	HOSE BIBB
	CIRCUIT BALANCE VALVE

LEGEND NOTES:

THESE ARE STANDARD LEGENDS. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON THESE DRAWINGS.

DRAWING LIST

DWG No.	DRAWING TITLE
M1.00	DRAWING LIST, KEY PLAN AND LEGENDS
M2.00	GYM FLOOR PLAN – PLUMBING DEMOLITION
M2.01	GYM FLOOR PLAN – PLUMBING INSTALLATION
M3.00	GYM FLOOR PLAN – HVAC DEMOLITION
M3.01	GYM FLOOR PLAN – HVAC INSTALLATION
M3.02	PART ROOF PLANS – HVAC DEMOLITION AND INSTALLATION
M4.00	MECHANICAL DETAILS
ME5.01	MECHANICAL & ELECTRICAL SCHEDULES



GENERAL ARRANGEMENT PLAN

SCALE - 1:150

A horizontal scale bar is shown, divided into 13 equal segments. The segments are numbered 0 to 12.5 below the bar. The segments are shaded in an alternating pattern: segments 0-1, 2-3, 4-5, 6-7, 8-9, 10-11, and 12-12.5 are shaded gray, while segments 1-2, 3-4, 5-6, 7-8, 9-10, and 11-12 are unshaded (white).



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1	ISSUED FOR REVIEW	2023-10-31
NO	REVISIONS	DATE

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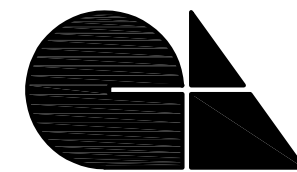
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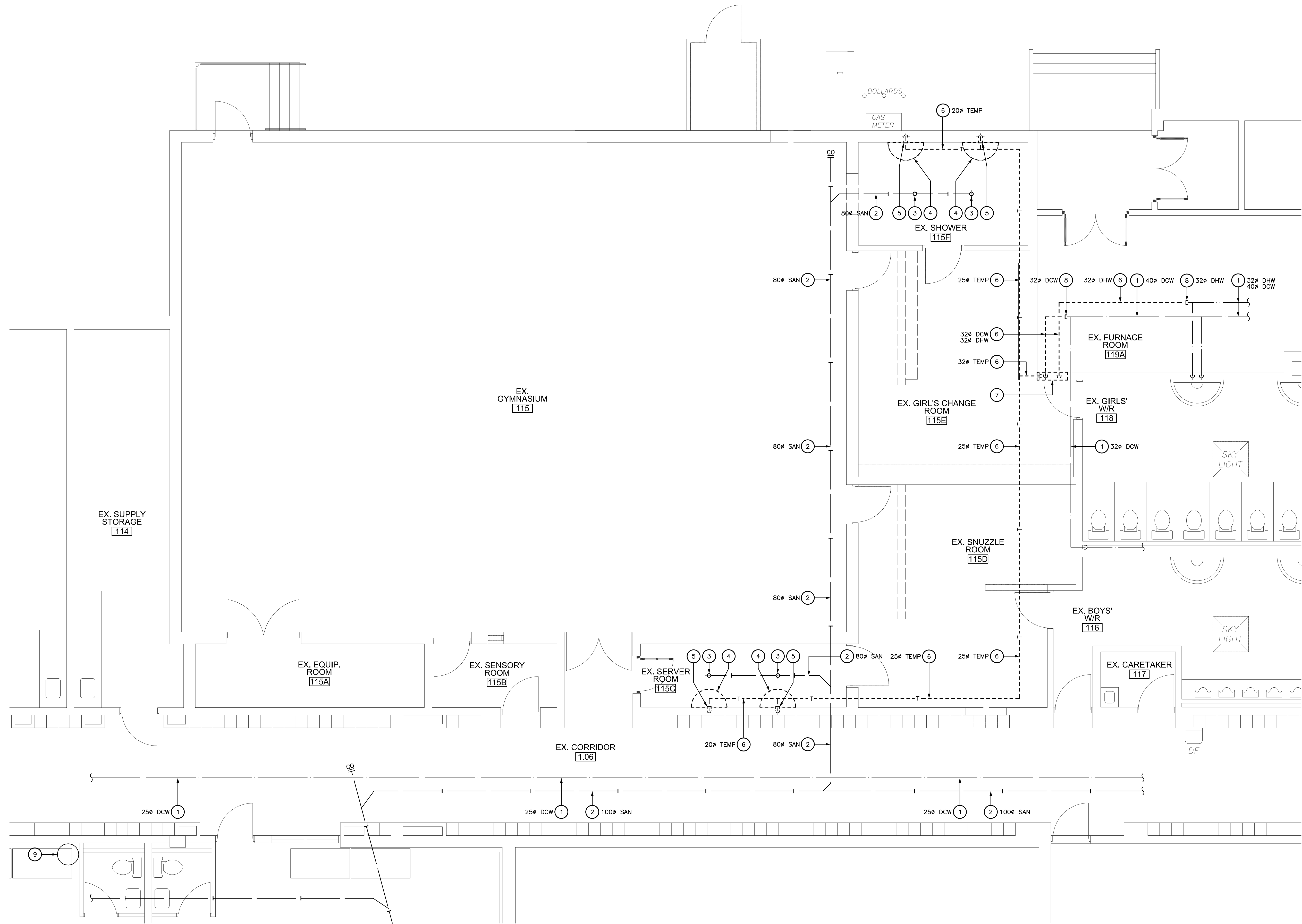
DRAWING LIST, KEY PLAN AND LEGENDS

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GYM FLOOR PLAN – PLUMBING DEMOLITION



DRAWING NOTES

- EXISTING PIPING RUNNING IN CEILING SPACE TO REMAIN. PIPE SERVICE AND PIPE SIZE AS NOTED.
- EXISTING BURIED SANITARY DRAIN TO REMAIN. SIZE AS NOTED.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING FLOOR DRAIN. CUT BACK AND CAP OFF EXISTING SANITARY PIPING CONCEALED BELOW FLOOR. GENERAL CONTRACTOR TO MAKE GOOD FLOOR TO MATCH EXISTING CONDITIONS.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING STAINLESS STEEL BRADLEY WALL-MOUNTED SHOWER STATION.
- CUT BACK AND CAP OFF EXISTING 20\"/>



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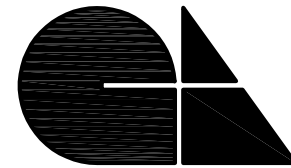
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GYM FLOOR PLAN -
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PROJECT:

START DATE:
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2023-12

DRAWN

DRAWING:

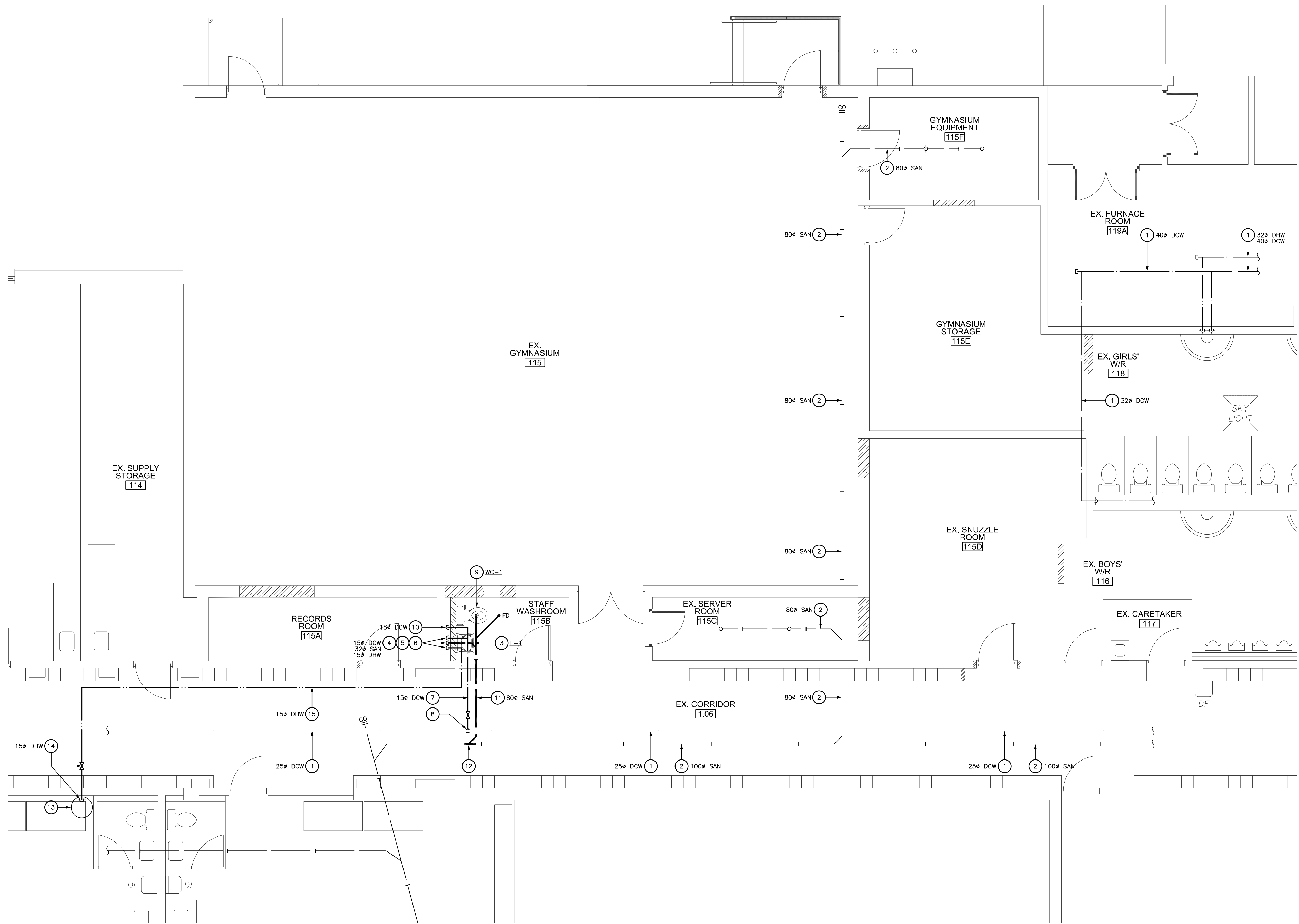
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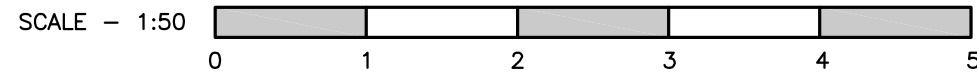
PRINT DATE

GENERAL NOTES

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- CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK

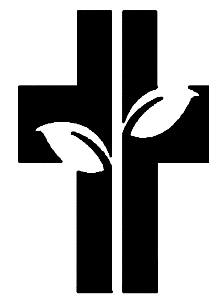


GYM FLOOR PLAN – PLUMBING INSTALLATION



DRAWING NOTES

- EXISTING PIPING RUNNING IN CEILING SPACE TO REMAIN. PIPE SERVICE AND PIPE SIZE AS NOTED.
- EXISTING BURIED SANITARY DRAIN TO REMAIN. SIZE AS NOTED.
- SUPPLY AND INSTALL NEW LAVATORY 'L-1'.
- DROP NEW 150# DHW AND 150# DCW DOWN CONCEALED IN WALL TO NEW LAVATORY 'L-1'.
- DROP NEW 32# SANITARY DRAIN CONCEALED IN WALL TO BELOW FLOOR AND INCREASE PIPE SIZE TO 80#.
- RISE NEW 32# VENT CONCEALED IN WALL AND TERMINATE ABOVE ROOF. TERMINATION AS PER O.B.C., SECTION 7.
- RUN NEW DCW PIPING CONCEALED IN CEILING SPACE. PIPE SIZE AS NOTED.
- CONNECT NEW 150# DCW TO EXISTING DCW PIPING, COMPLETE WITH ISOLATION VALVE.
- SUPPLY AND INSTALL NEW WATER CLOSET 'WC-1'.
- DROP NEW 150# DCW DOWN CONCEALED IN WALL TO NEW WATER CLOSET 'WC-1'.
- RUN NEW 80# SANITARY DRAIN BURIED BELOW FLOOR. GENERAL DIVISION TO SAW CUT FLOOR, EXCAVATE, BACKFILL AND RESTORE FLOOR SLAB TO MATCH EXISTING SLAB. ROUTING OF DRAIN TO BE FIELD VERIFIED.
- CONNECT NEW 80# SANITARY DRAIN TO EXISTING 100# SANITARY DRAIN. TIE-IN LOCATION TO BE FIELD VERIFIED. EXISTING SANITARY INVERT TO BE FIELD VERIFIED.
- EXISTING 30 GALLON ELECTRIC HOT WATER HEATER TO REMAIN. CONTRACTOR TO FIELD VERIFY HEATER LOCATION.
- DROP DOWN AND CONNECT NEW 150# DHW PIPING TO EXISTING DHW DISCHARGE HEADER AT EXISTING HWT, COMPLETE WITH ISOLATION VALVE. CONTRACTOR TO FIELD VERIFY PIPE ROUTING AND TIE-IN LOCATION.
- RUN NEW DHW PIPING CONCEALED IN CEILING SPACE. PIPE SIZE AS NOTED.



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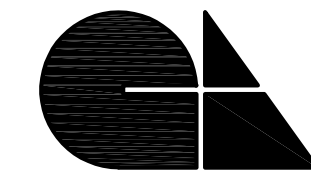
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GYM FLOOR PLAN -
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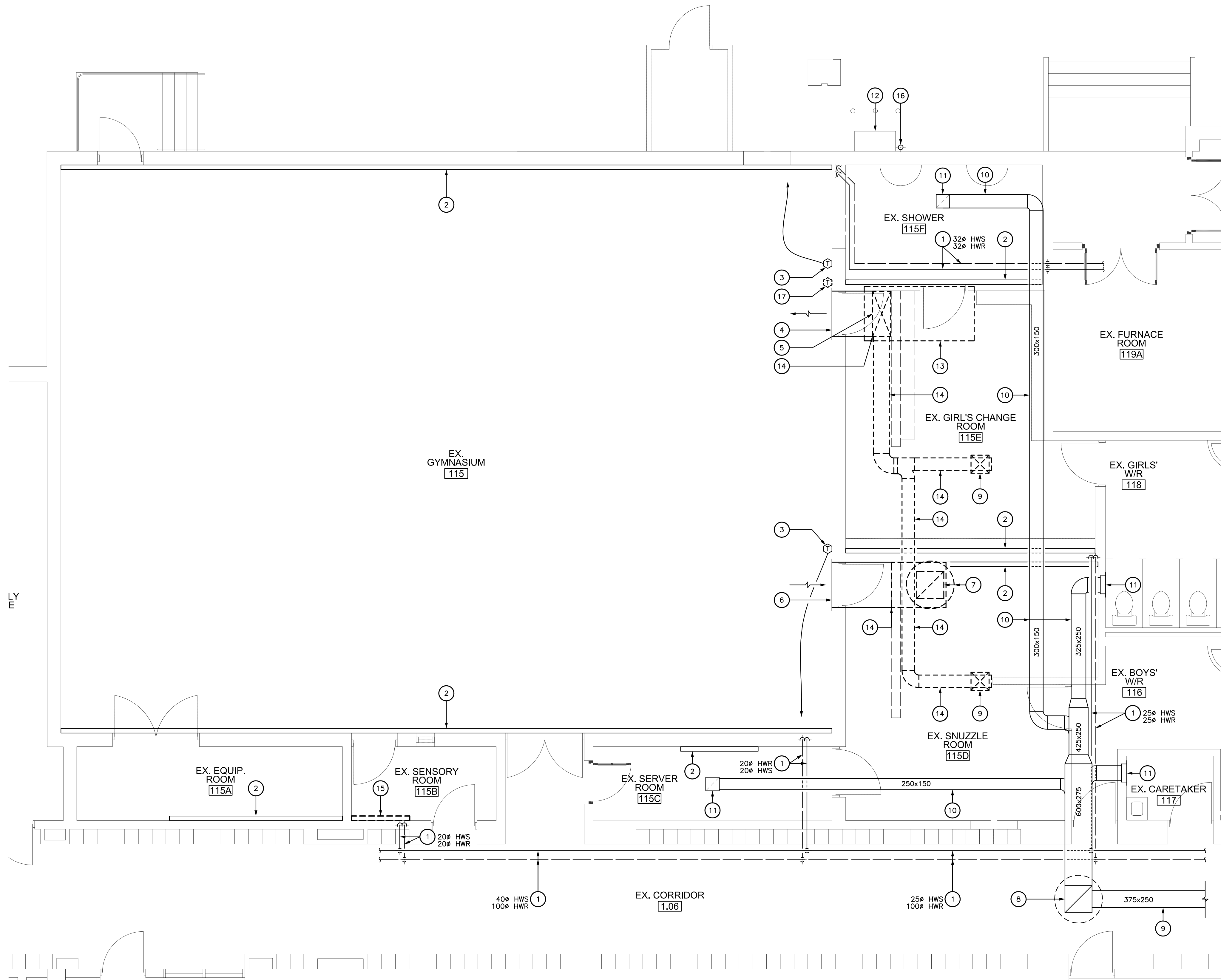


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GENERAL NOTES

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- CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT.
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK.
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE.
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION.
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN.
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK.



GYM FLOOR PLAN – HVAC DEMOLITION

SCALE – 1:50

DRAWING NOTES

- EXISTING HOT WATER SUPPLY (HWS) AND HOT WATER RETURN (HWR) PIPING EXPOSED AT HIGH LEVEL AND/OR CONCEALED IN CEILING SPACE TO REMAIN. PIPE SERVICE AND PIPE SIZE AS NOTED.
- EXISTING WALL FIN CONVECTOR MOUNTED INVERTED AT HIGH LEVEL TO REMAIN.
- EXISTING THERMOSTAT TO REMAIN.
- EXISTING WALL-MOUNTED SUPPLY AIR GRILLE AND ASSOCIATED SUPPLY AIR DUCTWORK TO REMAIN.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DUCT RISER UP TO EXISTING ROOF-MOUNTED SUPPLY AIR UNIT.
- EXISTING WALL-MOUNTED EXHAUST AIR GRILLE AND ASSOCIATED EXHAUST AIR DUCTWORK TO REMAIN.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING EXHAUST DUCT RISER AND ROOF-MOUNTED EXHAUST FAN. SEE DRAWING M3.02 FOR EXHAUST FAN REMOVAL.
- EXISTING EXHAUST DUCT RISER UP TO ROOF-MOUNTED EXHAUST FAN TO REMAIN.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DIFFUSER.
- EXISTING EXHAUST AIR DUCTWORK TO REMAIN.
- EXISTING EXHAUST AIR GRILLE TO REMAIN.
- EXISTING GAS METER TO REMAIN.
- OUTLINE OF EXISTING AIR HANDLING UNIT MOUNTED ON ROOF ABOVE TO BE REMOVED. SEE DRAWING M3.02.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DUCTWORK.
- DISCONNECT AND REMOVE EXISTING WALL FIN CONVECTOR MOUNTED INVERTED AT HIGH LEVEL FOR RELOCATION.
- EXISTING 65# NATURAL GAS RISER TO ROOF ABOVE TO REMAIN. FOR CONTINUATION SEE DRAWING M3.02.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING THERMOSTAT ASSOCIATED WITH EXISTING ROOF-MOUNTED SUPPLY AIR UNIT.



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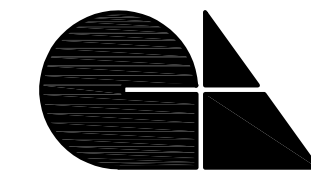
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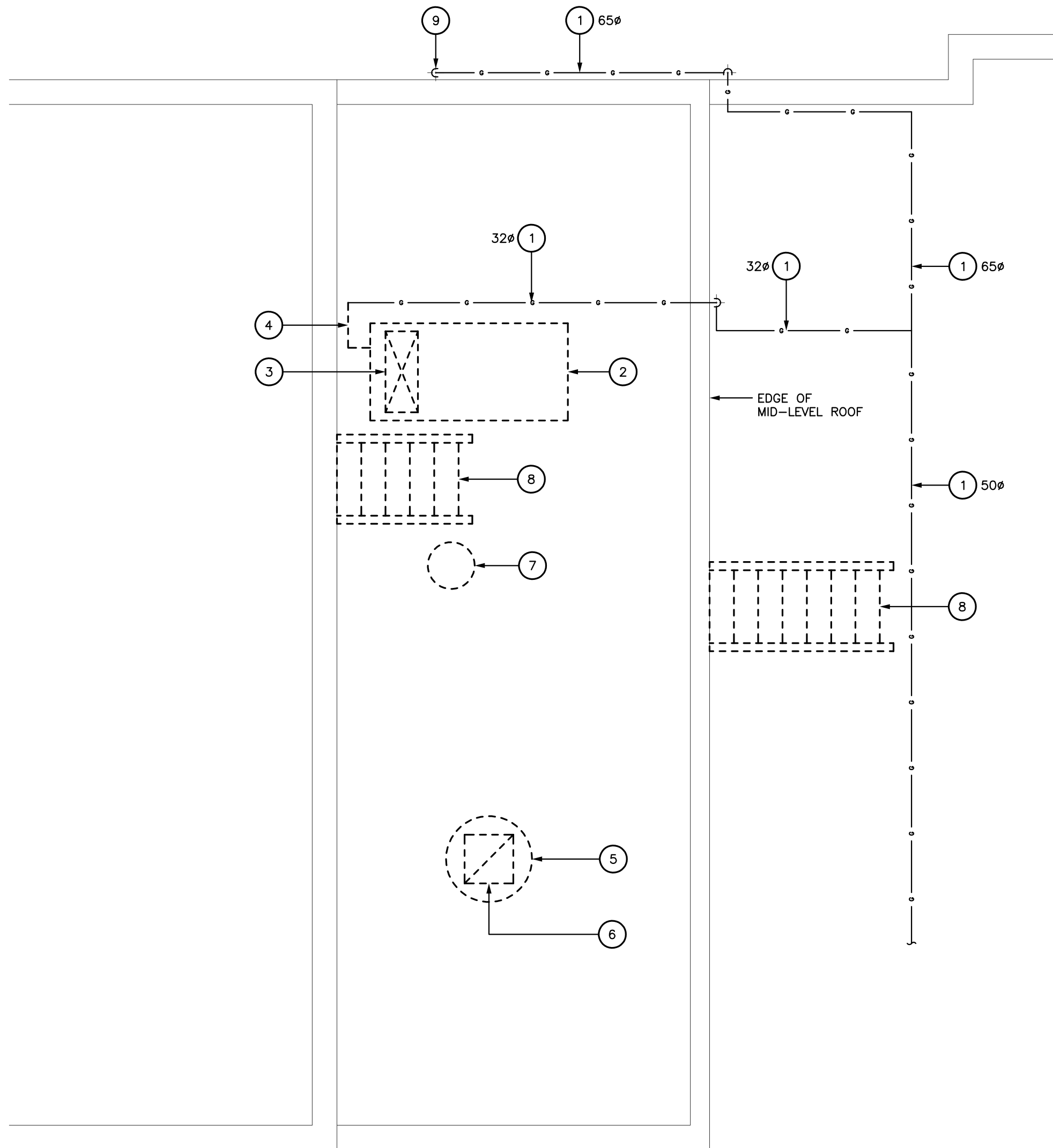
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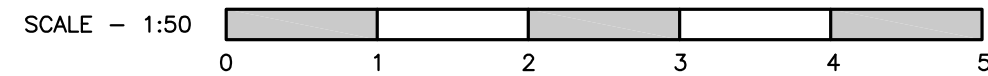
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- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK

- A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, CITY OF HALLOWELL AND OTHER APPLICABLE REGULATIONS AND JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS
- B. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- C. RELOCATE OR PERROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- D. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- E. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- F. REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP & MAIN
- G. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CONDUCT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK.



PART ROOF PLAN – HVAC DEMOLITION

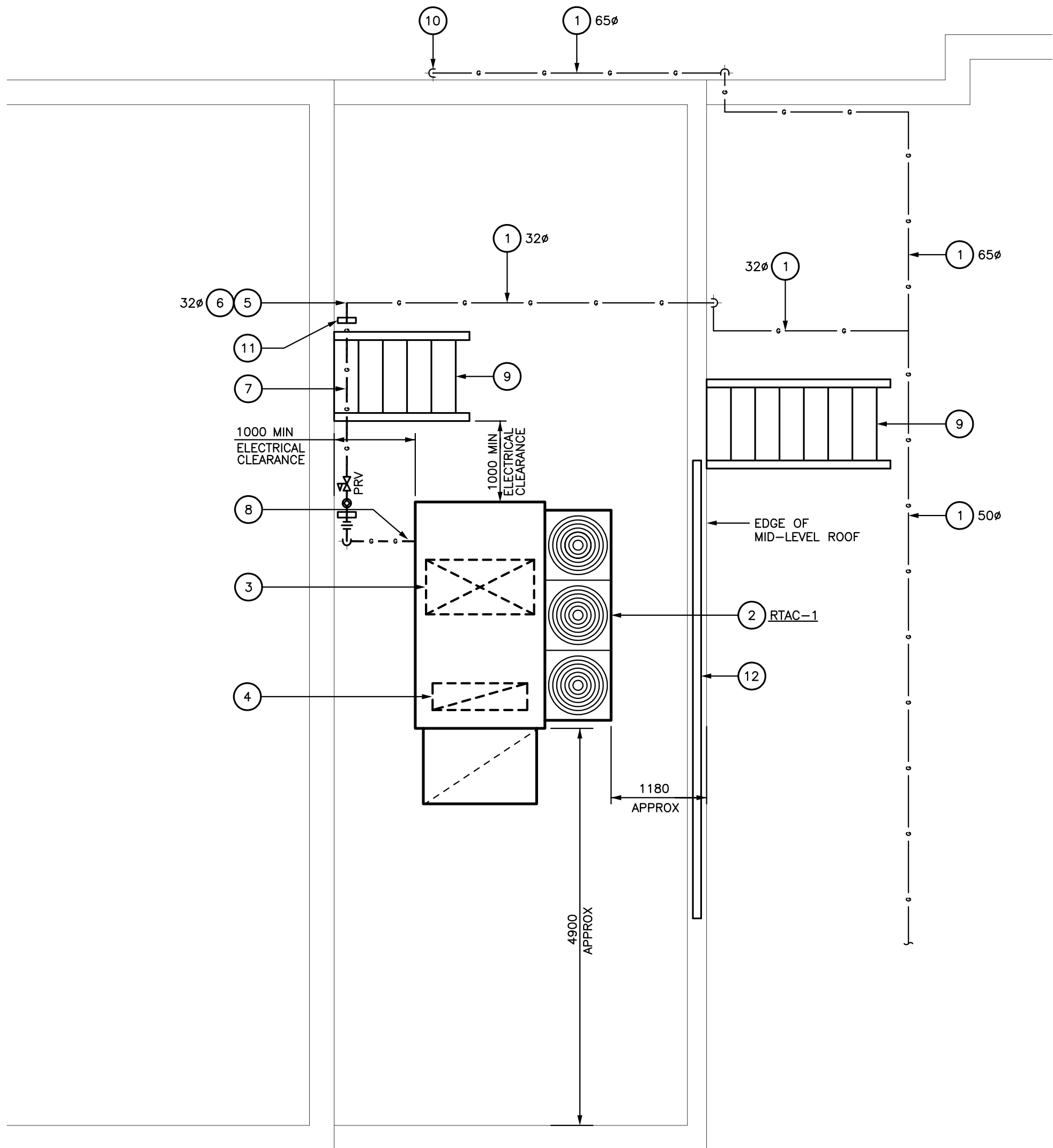


DRAWING NOTES

- EXISTING NATURAL GAS PIPE TO REMAIN. SIZE AS NOTED.
- OUTLINE OF EXISTING ROOFTOP UNIT AND ASSOCIATED ROOF CURB TO BE REMOVED. DISCONNECT, REMOVE AND DISPOSE OF ALL DUCTWORK, GAS PIPING, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO DISCONNECT POWER WIRING TO UNIT. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENING.
- OUTLINE OF EXISTING INSULATED SUPPLY AIR RISER DUCT DOWN THROUGH ROOF TO BE DISCONNECTED, REMOVED AND DISPOSED OF. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENING.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING 32# NATURAL GAS PIPE.
- OUTLINE OF EXISTING ALUMINUM DOME EXHAUST FAN AND ASSOCIATED ROOF CURB TO BE REMOVED. DISCONNECT, REMOVE AND DISPOSE OF ALL DUCTWORK, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO DISCONNECT POWER WIRING TO UNIT. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENING.
- OUTLINE OF EXISTING EXHAUST AIR RISER DUCT THROUGH ROOF TO BE DISCONNECTED, REMOVED AND DISPOSED OF. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENING.
- OUTLINE OF EXISTING EXHAUST FAN TO BE DISCONNECTED, REMOVED AND RELOCATED AS REQUIRED TO CLEAR NEW RTAC UNIT INSTALLATION. DISCONNECT ALL DUCTWORK, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO DISCONNECT POWER WIRING TO UNIT. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENING. PRIOR TO REMOVAL, MECHANICAL CONTRACTOR TO FIELD VERIFY STATUS OF FAN TO DETERMINE IT'S CURRENT FUNCTION AND REPORT FINDINGS TO THE MECHANICAL ENGINEER.
- OUTLINE OF EXISTING PRESSURE-TREATED WOODEN STAIRS, COMPLETE WITH CONCRETE SLAB LANDING PADS, TO BE RELOCATED AS REQUIRED TO CLEAR NEW RTAC UNIT INSTALLATION. REPAIR OF EXISTING ROOF AND ALL WORK ASSOCIATED WITH THE RELOCATION OF THE STAIR ASSEMBLY IS TO BE BY THE GENERAL CONTRACTOR.
- EXISTING 65# NATURAL GAS PIPE FROM BELOW TO REMAIN. FOR CONTINUATION SEE DRAWING M3.00.

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, CITY OF HAMILTON AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS
- CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEENTAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK



PART ROOF PLAN – HVAC INSTALLATION

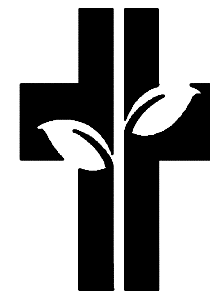


DRAWING NOTES

- EXISTING NATURAL GAS PIPE TO REMAIN. SIZE AS NOTED.
- SUPPLY AND INSTALL NEW ROOFTOP UNIT RTAC-1 AND ASSOCIATED ROOF CURB. CONNECT ALL DUCTWORK, GAS PIPING, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO CONNECT POWER WIRING TO UNIT. GENERAL CONTRACTOR TO CUT BACK EXISTING STANDING SEAL ROOF AS REQUIRED FOR ROOFING CONTRACTOR TO INSTALL AND THOROUGHLY SEAL ROOF CURB TO FLASHING TO STANDING SEAM ROOF.
- DROP NEW 1300x650 INSULATED SUPPLY AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- DROP NEW 1150x325 INSULATED RETURN AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- CONNECT NEW 32# NATURAL GAS PIPE TO EXISTING 32# NATURAL GAS PIPE.
- RUN NEW 32# NATURAL GAS PIPE ACROSS ROOF.
- RUN NEW 32# NATURAL GAS PIPE BELOW RELOCATED WOODEN STAIRS.
- CONNECT NEW 32# NATURAL GAS PIPE TO NEW RTAC UNIT COMPLETE WITH ISOLATION VALVE, PRESSURE REGULATING VALVE, UNION AND DIRT LEG.
- PROPOSED REVISED LOCATION FOR EXISTING PRESSURE-TREATED WOODEN STAIRS, COMPLETE WITH CONCRETE SLAB LANDING PADS. COORDINATE LOCATION WITH OWNER. ALL WORK ASSOCIATED WITH THE RELOCATION OF THE STAIR ASSEMBLY IS TO BE BY THE GENERAL CONTRACTOR.
- EXISTING 65# NATURAL GAS PIPE FROM BELOW TO REMAIN. FOR CONTINUATION SEE DRAWING M3.01.
- SUPPLY AND INSTALL GAS PIPING SUPPORTS AT MAXIMUM 2400mm SPACING FOR NEW NATURAL GAS PIPING. SEE DETAIL, DRAWING M4.00.
- NEW GUARDRAIL TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

GENERAL NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, CITY OF HAMILTON AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS
- CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEENTAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR PERMIT	2024-01-19
2	ISSUED FOR OWNER REVIEW	2023-12-19
1	ISSUED FOR REVIEW	2023-10-31

NO	REVISIONS	DATE
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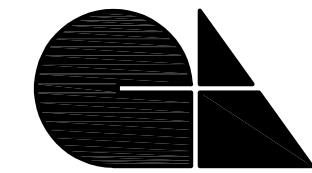
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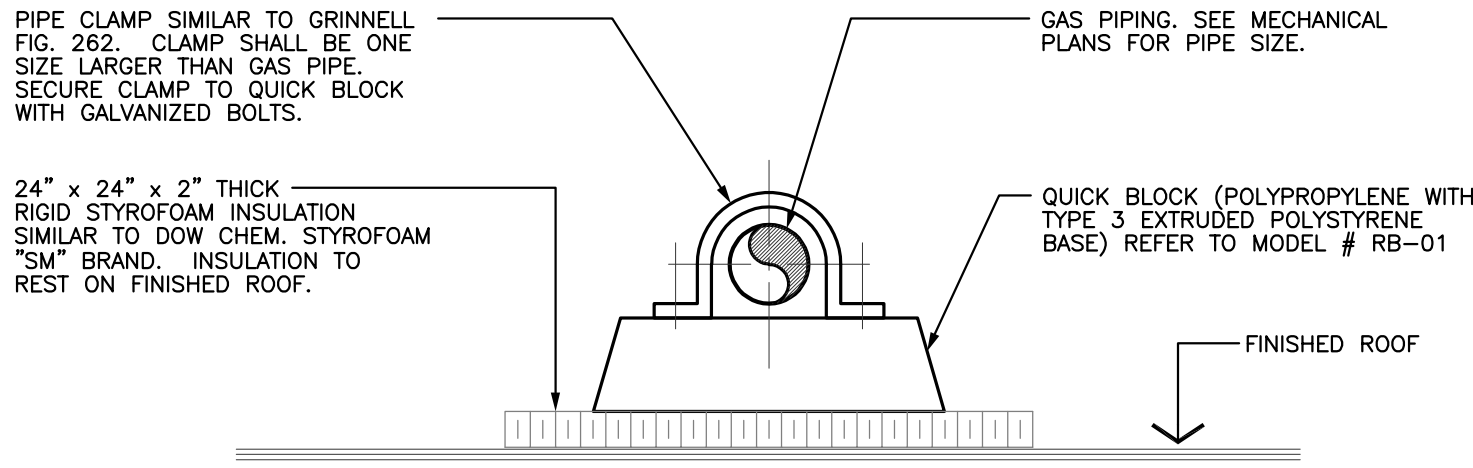
PART ROOF PLANS -
HVAC DEMOLITION
AND INSTALATION

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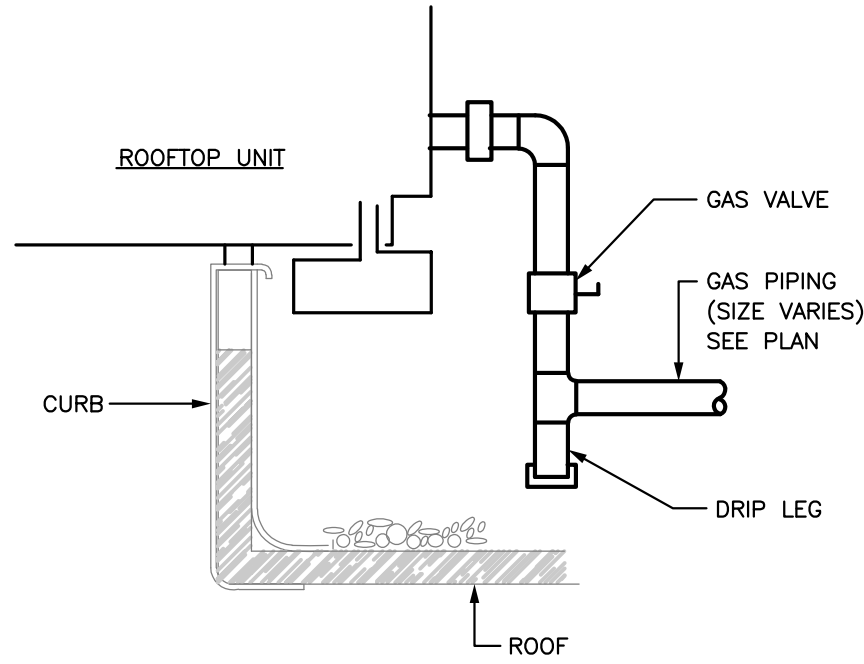
SCALE: AS NOTED	PROJECT:
START DATE: MAY 2023	2023-12
DRAWN	DRAWING:
CHECKED	M3.02
PRINT DATE	



NOTE:
PIPE SUPPORTS TO BE MAXIMUM
8'-0" (2400mm) APART.

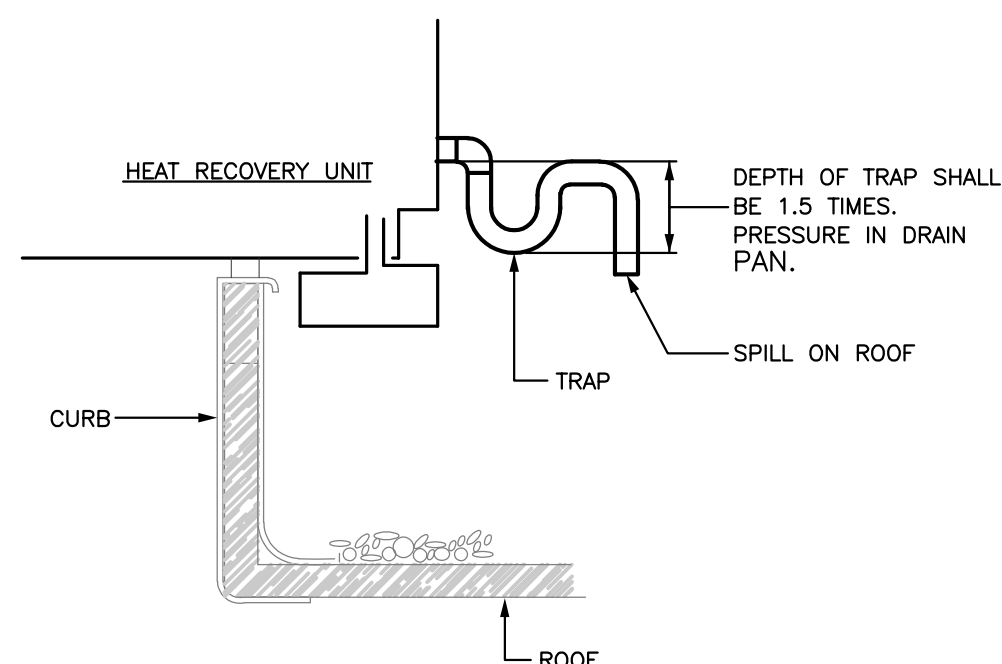
TYPICAL GAS PIPING SUPPORT ON ROOF

N.T.S.



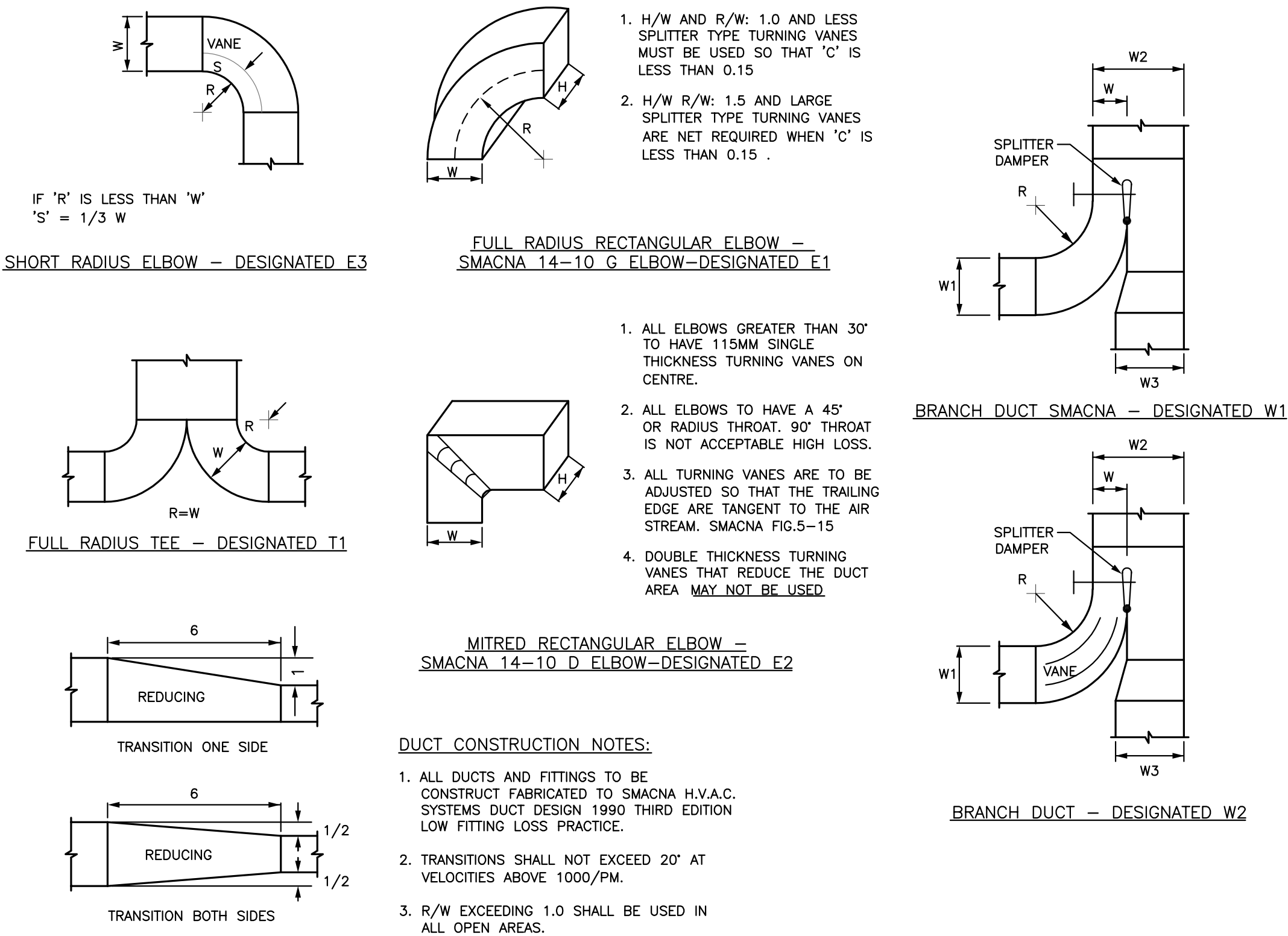
GAS PIPE CONNECTION DETAIL

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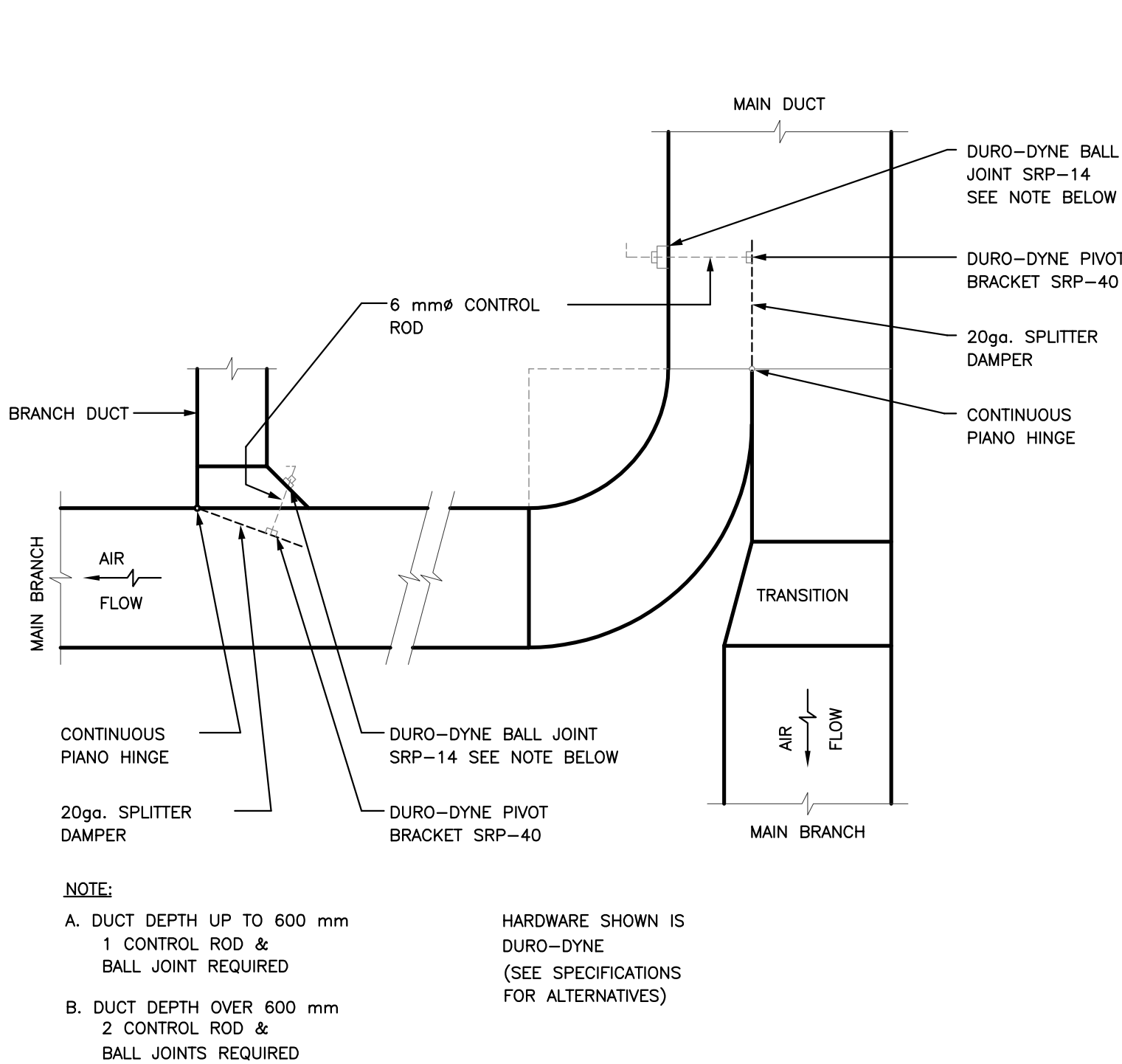
CONDENSATE DRAIN DETAIL

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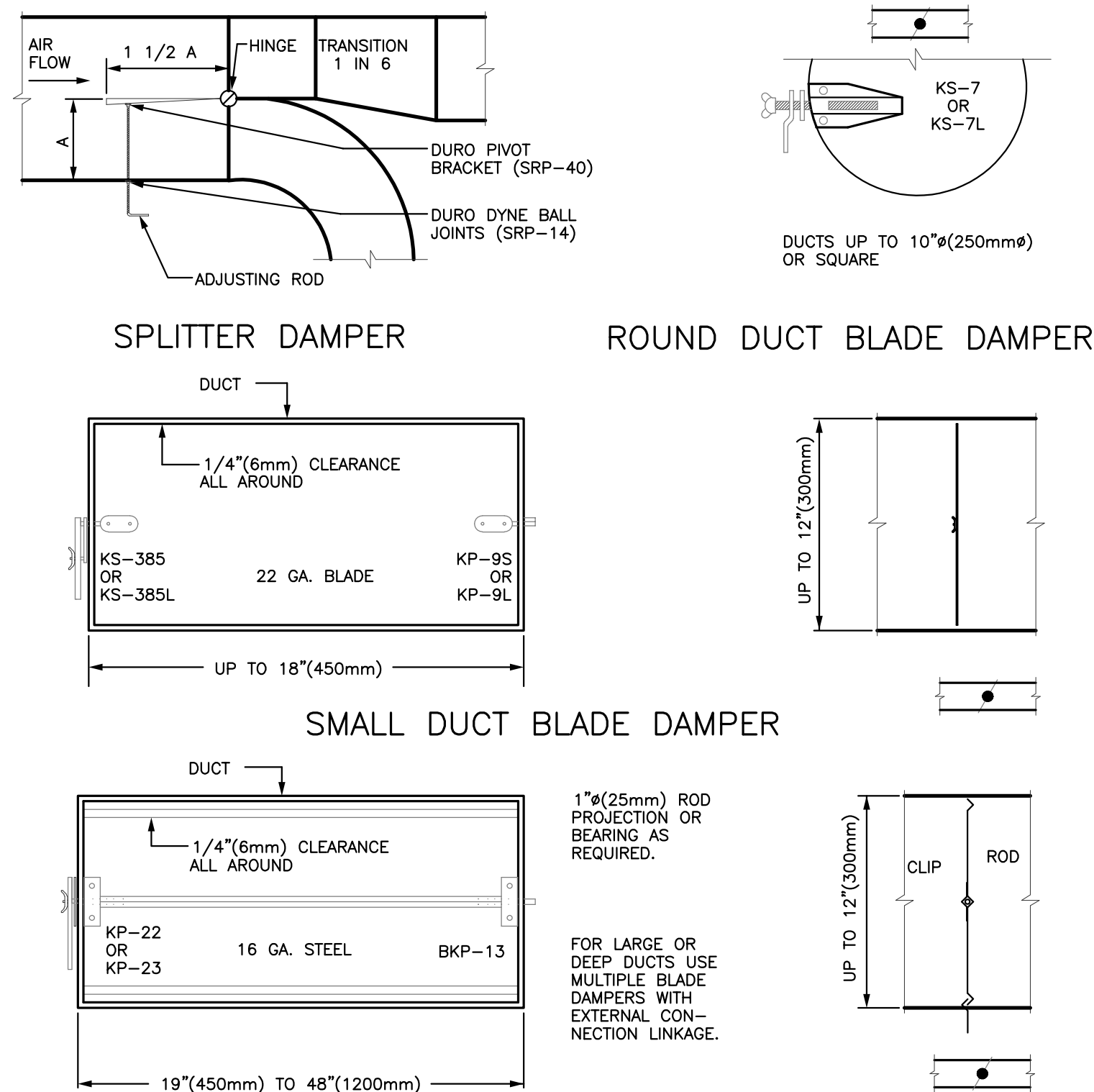
SQUARE, RADIUS ELBOW AND TRANSITION FITTINGS

N.T.S.



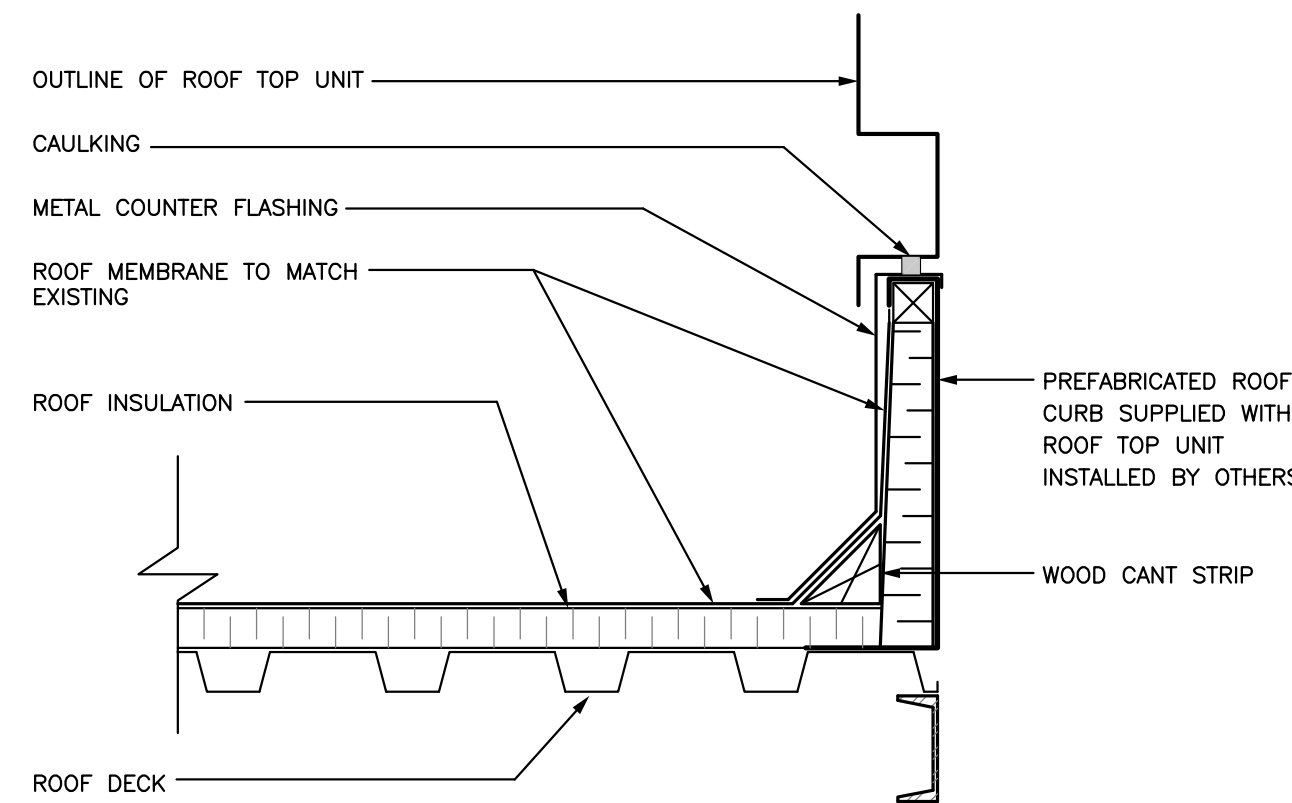
TYPICAL DUCT CONNECTION

N.T.S.



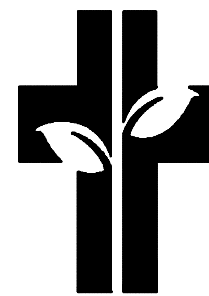
LARGE DUCT BLADE DAMPER VOLUME DAMPERS

N.T.S.



DETAIL - TYPICAL ROOF CURB

N.T.S.



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NO	REVISIONS	DATE
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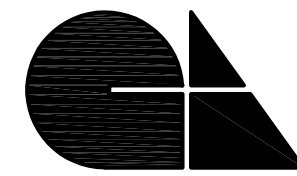
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MECHANICAL DETAILS

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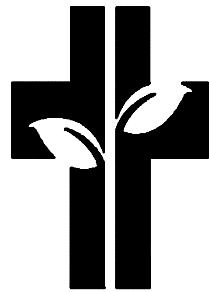
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Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN	DRAWING: M4.00
CHECKED	
PRINT DATE	

JOB NAME:		ST. PHILOMENA ELEMENTARY SCHOOL GYM RENOVATIONS																								JOB No.		ALL-23008483-A0							
MECHANICAL SCHEDULE - ROOFTOP UNIT EQUIPMENT																																			
DWG. DESIGNATION	MANUFACTURER / MODEL	SERVICE	SUPPLY CFM	FAN HP	EER	DUCT CONFIGURATION	WEIGHT C/W 24" CURB (LBS)	FRESH AIR (CFM)	ESP (IN WG)	COOLING					GAS FURNACE					HEAT PUMP					MECHANICAL REMARKS	POWER REQUIREMENTS					ELECTRICAL REMARKS				
										AMBIENT AIR TEMP (°F)	EVAPORATOR EAT (°F)	EVAPORATOR LAT (°F)	GROSS TOTAL CAPACITY (MBh)	GROSS SENSIBLE CAPACITY (MBh)	INPUT MBH	OUTPUT MBH	CALCULATED CAPACITY MBH	ENTERING AIR DB DEG. F	LEAVING AIR DB DEG. F	TEMP RISE DEG. F	COIL AIR PD IN. H2O	CAPACITY MBH	AMBIENT AIR DB DEG. F	ENTERING AIR DB DEG. F		LEAVING AIR DB DEG. F	COP	VOLTS / PHASE / HZ	FLA	MCA		MAX. FUSE SIZE	STARTER	REMOTE CONTROL DEVICE	DISC. TYPE
RTAC-1	TRANE HORIZON OAD0012C1 SIZE D012	GYM	4,500	3	10.9	VERTICAL SUPPLY VERTICAL RETURN	3,489	1,500	1	95	80db / 67w b	56.3db / 56.2w b	148.5	114.6	400	324	395.1	50	116.4	66.4	0.18	86.7	0	34	49.5	3	DIRECT DRIVE VFD SUPPLY FAN, INDIRECT FIRED GAS FURNACE / HEAT PUMP, DX COOLING, ECONOMIZER (DRY BULB COMPARISON), CO2 DUCT MOUNTED DEMAND VENTILATION, BAROMETRIC RELIEF, NON-FUSED DISCONNECT SWITCH, THERMOSTAT, 24" ROOF CURB, NON-POWERED GFI, HAIL GUARDS.	208/3/60	58.2	63.3	80	BUILT-IN	THERMOSTAT	BUILT-IN NON-FUSED	DIV. 26 TO PROVIDE POWER AND WIRE THROUGH THE DISCONNECT BUILT INTO THE UNIT. DIV. 26 TO WIRE TO THE GFI RECEPTACLE BUILT INTO THE UNIT. ALL CONTROL WIRING BY MECHANICAL DIVISION.

JOB NAME:		ST. PHILOMENA ELEMENTARY SCHOOL GYM RENOVATIONS							JOB No.		ALL-23008483-A0	
MECHANICAL SCHEDULE - GRILLES AND REGISTERS												
DWG. DESIGNATION	MODEL			SIZE		CFM		SP (IN W.G.)		MECHANICAL REMARKS		
	BORDER	FRAME	CORE	Length (mm)	Width (mm)	MIN	MAX	MIN	MAX			
G-1	N	-	80D	200	200	-	-	-	-	EXHAUST, C/W OBD		
ALL GRILLES TO HAVE 'A' FASTENING FINISH B12 WHITE POWDER COAT OBD: OPPOSED BLADE DAMPER												

JOB NAME:		ST. PHILOMENA ELEMENTARY SCHOOL GYM RENOVATIONS							JOB No.		ALL-23008483-A0	
MECHANICAL SCHEDULE - AIR DIFFUSERS												
DWG. DESIGNATION	MODEL		FACE PLATE SIZE	NECK SIZE (I)	CFM		SP (IN W.G.)		MECHANICAL REMARKS			
	SERIES	FRAME			MIN	MAX	MIN	MAX				
D-1	SFD	31	24"x24"	8"	140	300	0.018	0.093				
FRAME 31 IS FOR T-BAR CEILINGS AND SURFACE MOUNT FINISH B12 WHITE POWDER COAT												



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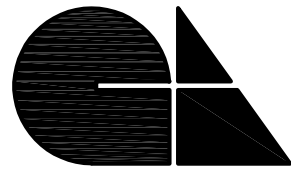
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




























MECHANICAL AND
ELECTRICAL
SCHEDULES

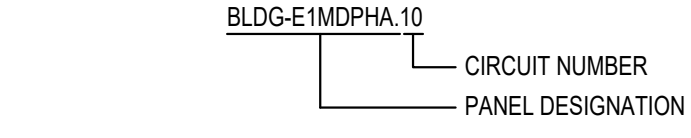
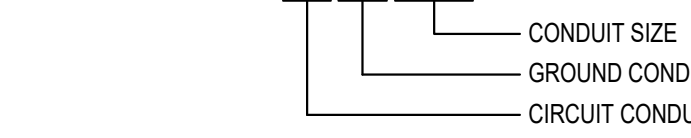
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












































































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







SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN	DRAWING: ME5.00
CHECKED	
PRINT DATE	

POWER DISTRIBUTION AND SMALL POWER			
	DUPLIX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLIX RECEPTACLE, WALL MOUNTED
	DUPLIX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLIX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK
	DUPLIX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLIX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLIX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED. NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH. REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UON		
	COMBINATION MOTOR STARTER DISCONNECT		
	MOTOR STARTER		
	VARIABLE FREQUENCY DRIVE		
	DIRECT CONNECTION, WALL MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	DIRECT CONNECTION, CEILING MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
	GROUND BUS BAR		
	FURNITURE OUTLET, WALL MOUNTED		
	PANELBOARD		
	TRANSFORMER		
	FLOOR BOX, DUPLIX RECEPTACLE		SPECIAL FLOORBOX, "F" INDICATES UNIQUE FLOOR BOX TYPE
	FLOOR BOX, DOUBLE DUPLIX RECPT		
 x 12 ————— RECEPTACLE TYPE NUMBER INDICATES BRANCH CIRCUIT NUMBER			





CIRCUITING	
	BLDG-E1MDPHA,10 CIRCUIT NUMBER PANEL DESIGNATION
	3#12,12G,21mmC CONDUIT SIZE GROUND CONDUCTOR QUANTITY AND SIZE CIRCUIT CONDUCTOR QUANTITY AND SIZE

FIRE ALARM SYSTEM			
	FIRE ALARM STROBE, WALL MOUNTED		FIRE ALARM STROBE, CEILING MOUNTED.
	FIRE ALARM HORN, WALL MOUNTED		FIRE ALARM HORN, CEILING MOUNTED
	FIRE ALARM HORN/STROBE, WALL MOUNTED		FIRE ALARM HORN/STROBE, CEILING MOUNTED
	FIRE ALARM SPEAKER, WALL MOUNTED		FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM SPEAKER/STROBE, WALL MOUNTED		FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED
	FIRE ALARM BELL, WALL MOUNTED		FIRE ALARM PULL STATION
	HEAT DETECTOR, WALL MOUNTED		HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, WALL MOUNTED		SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, DUCT MOUNTED		FIRE/SMOKE DAMPER
	CARBON MONOXIDE DETECTOR		SMOKE DAMPER
	FIREFIGHTERS TELEPHONE OUTLET		SMOKE ALARM
	REMOTE INDICATOR LIGHT		COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR
	FIRE ALARM CONTROL PANEL		TAMPER SWITCH
	FIRE ALARM REMOTE ANNUNCIATOR PANEL		REMOTE TEST STATION
	DATA GATHERING PANEL		FLOW SWITCH
	FIRE ALARM TERMINAL CABINET		SUPERVISORY VALVE
	FIRE ALARM TRANSPONDER PANEL		ELECTRO-MAGNETIC DOOR HOLDER

LIGHTING, LIGHTNG SWITCHING & CONTROLS			
	AF10 7ab	UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCHLEG	
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
	X ab	SPST SWITCH, WALL MOUNTED. 'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - WALL BOX DIMMER K - KEY OPERATED LV - LOW VOLTAGE P - PILOT LIGHT T - WALL BOX TIMER WP - WEATHER PROOF	
		OCCUPANCY SENSOR, CEILING MOUNTED	
		OCCUPANCY SENSOR, WALL MOUNTED	
		VACANCY SENSOR, CEILING MOUNTED	
		VACANCY SENSOR, WALL MOUNTED	
	DCP x	DIMMING CONTROL PANEL, SUBSCRIPT 'X' INDICATES TYPE	
	DIM x	DIMMING CONTROL STATION, SUBSCRIPT 'X' INDICATES TYPE OR UNIQUE IDENTIFIER	
	LCP	LIGHTING CONTROL PANEL	
		SHUNT TRIP PUSH BUTTON	
	TC x	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER	
	DS x	DAYLIGHT SENSOR, CEILING MOUNTED	
	PC x	PHOTOCCELL	

TAGS AND CALL OUT SYMBOLS	
	SECTION CALLOUT
	SECTION DESIGNATION
	SHEET NUMBER
	DETAIL CALLOUT
	DETAIL DESIGNATION
	SHEET NUMBER
	REVISION CALLOUT
	KEYNOTE CALLOUT

ABBREVIATIONS			
A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
BM	BEAM MOUNTED	NC	NORMALLY CLOSED
CK	CLOCK HANGER	NO	NORMALLY OPEN
CL	CEILING MOUNTED	OC	OVER THE COUNTER
EMT	ELECTRICAL METALLIC TUBING	PL	POLE MOUNTED
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER		


MISCELLANEOUS DEVICES	
	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, CEILING MOUNTED
	CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE

DEMOLITION	
< R >	EXISTING TO BE REMOVED
< RL >	EXISTING TO BE RELOCATED
< EX >	EXISTING TO REMAIN
< NL >	EXISTING - NEW LOCATION
- - - - -	DEMOLITION CONDUIT
- - - - -	DEMOLITION EQUIPMENT
—————	EXISTING TO REMAIN CONDUIT
—————	EXISTING TO REMAIN EQUIPMENT
—————	RELOCATED / NEW CONDUIT
—————	RELOCATED / NEW EQUIPMENT

DRAWING LIST	
DWG. No.	DRAWING TITLE
E0.00	ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST
E1.00	OVERALL PLAN
E2.00	FLOOR PLAN – DEMOLITION
E3.00	FLOOR PLAN – LIGHTING NEW
E3.10	FLOOR PLAN – POWER NEW, ROOF PLAN – POWER NEW & DEMOLITION
E4.00	LIGHTING SCHEDULE AND DETAILS



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR PERMIT	2024-01-19
2	ISSUED FOR OWNER REVIEW	2023-12-19
1	ISSUED FOR REVIEW	2023-10-31
NO	REVISIONS	DATE
DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT, AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.		
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 <p>LICENSED PROFESSIONAL ENGINEER J. M. POTALIVO 100153872 PROVINCE OF ONTARIO</p>		
ST. PHILOMENA CATHOLIC ELEMENTARY SCHOOL GYM AND HVAC UPGRADES 1332 PHILLIPS ST FORT ERIE, ON L2A 3C2		
ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST		
GRGURIC ARCHITECTS INCORPORATED		
 <p>28 KING STREET EAST, UNIT B STONEY CREEK, ONTARIO, L8G 1J8 Tel. 905-664-8735 Fax. 905-664-8737 Web: www.2gai.com</p>		
SCALE: AS NOTED	PROJECT:	2023-12
START DATE: MAY 2023		
DRAWN: ABS	DRAWING:	E0.00
CHECKED: JP		
PRINT DATE:		

1. THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO THE EXISTING DRAWINGS TO VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION:
 - MANUFACTURER
 - TECHNICAL DETAILS
 - LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FOR RECORD PURPOSES.
4. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
5. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.
6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.
7. ALL WRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ADJACENT IN PLACE SHALL BE REMOVED TO THEIR CURB OR UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE.
8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR ARE UNUSED SHALL BE REMOVED.
9. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION-DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
10. WHERE REQUIRED COORDINATE WITH THE CONSULTANT/S OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVING EXISTING DEVICES IN OTHER AREAS TO REMAIN.
11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH CONTROL, WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER AREAS, THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.
12. POWER RECEPTABLES: REMOVE RECEPTABLES, WHEN THE RECEPTABLE TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES RECEPTABLES IN OTHER AREAS, THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTABLES.
13. FIRE ALARM SYSTEM: COORDINATE AND CONSULT WITH CURRENT FIA SYSTEM SERVICE CONTRACTOR OR THEIR QUALIFIED REPRESENTATIVE FOR ALL FIRE ALARM DEMOLITION AND MODIFICATIONS. OPERATION SHALL BE MAINTAINED FOR EXISTING FIRE ALARM SYSTEM SPECIFICALLY AS IT RELATES TO ADJACENT AREAS WHICH ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE.
15. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED. FOR REMOVAL OF EXISTING WIRING OUTSIDE AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

- A. PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL VISIT SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT LOCATIONS AND OTHER POSSIBLE INSTALLATION DIFFICULTIES. PAY AND OBTAIN ANY PERMITS REQUIRED INCLUDING ESD.
- B. MAIN CONDUIT ROUTES SHOWN ON DRAWINGS ARE APPROXIMATE AND NOT FINAL. CONTRACTOR SHALL VERIFY ROUTES AND DO A WALKTHROUGH BEFORE BID. CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO EXISTING CEILING AND LIGHT FIXTURES. ALL MAIN CONDUIT RUNS SHALL BE IN CORRIDOR CEILING SPACE.
- C. EXTEND PROPOSED NEW WIRING/CONDUIT FOR ALL DEVICES THAT ARE RELOCATED.
- D. ALL NEW RECEPTACLES IN THE SCHOOL, SHALL BE TAMPER RESISTANT TYPE.
- E. REMOVE AND RE-INSTALL ALL REQUIRED 1-BAR OR 2-BAR TYPE CEILINGS TO FACILITATE ELECTRICAL INSTALLATIONS. ANY DAMAGES TO 1-BAR SHALL BE RE-INSTATED.
- F. UNLESS OTHERWISE NOTED WITH A CIRCUIT NUMBER, RE-USE EXISTING CIRCUIT BREAKERS THAT HAD BECOME SPARE FROM THE DEMOLITION TO FEED NEW RECEPTACLES. MAXIMUM 6 CIRCUIT RE-USE RECEPTACLES PER CIRCUIT. OTHERWISE NOTED.
- G. FOR EACH PANEL BOARD, PROVIDE AN UPDATED, TYPE WRITTEN DIRECTORY INDICATING ROOM AND ROOM NUMBER, EQUIPMENT IDENTIFICATIONS, SPARE SPACE AS APPLICABLE. DIRECTORY SHALL BE MOUNTED INSIDE PANEL BOARD.
- H. ALL EMPTY CONDUITS SHALL CONTAIN PULL WIRES.
- I. EQUIPMENT OR DEVICES THAT ARE LOCATED ABOVE OPENINGS SUCH AS DOORS, LOUVERS, ETC. SHALL BE CENTERED ABOVE OPENING. THIS NOTE REFERS TO, BUT IS NOT LIMITED TO EXIST LIGHTS, EXTERIOR LIGHT FIXTURES, ETC.
- J. CONCEAL ALL CONDUIT IN FINISHED SPACES. IN UNFINISHED SPACES, ALL OUTLET BOXES SHALL BE RECESSED, AND ALL CONDUIT SHALL BE CONCEALED TO THE HIGHEST EXTENT POSSIBLE.
- K. PROVIDE CONDUIT BUSHINGS FOR ALL CONDUIT NIPPLES, SLEEVES, AND STUBS FROM WALL BOARDS TO ABOVE CEILING.
- L. FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR ALL CONNECTIONS TO MOTORS AND WIRING EQUIPMENT, TRANSFORMERS AND LIGHT FIXTURES. THE MAXIMUM ALLOWABLE LENGTH IS 3' FOR MOTORS/TRANSFORMERS AND 4' FOR LIGHT FIXTURE WHIPS. PVC CONDUIT SHALL BE USED FOR ALL OTHERS. IN ESPECIALLY WET LOCATION AREAS, THE USE OF FLEXIBLE CONDUIT OTHER THAN AS SPECIFIED IS PROHIBITED.



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NO	REVISIONS	DATE

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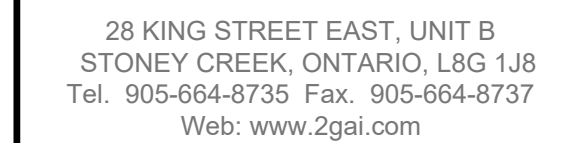
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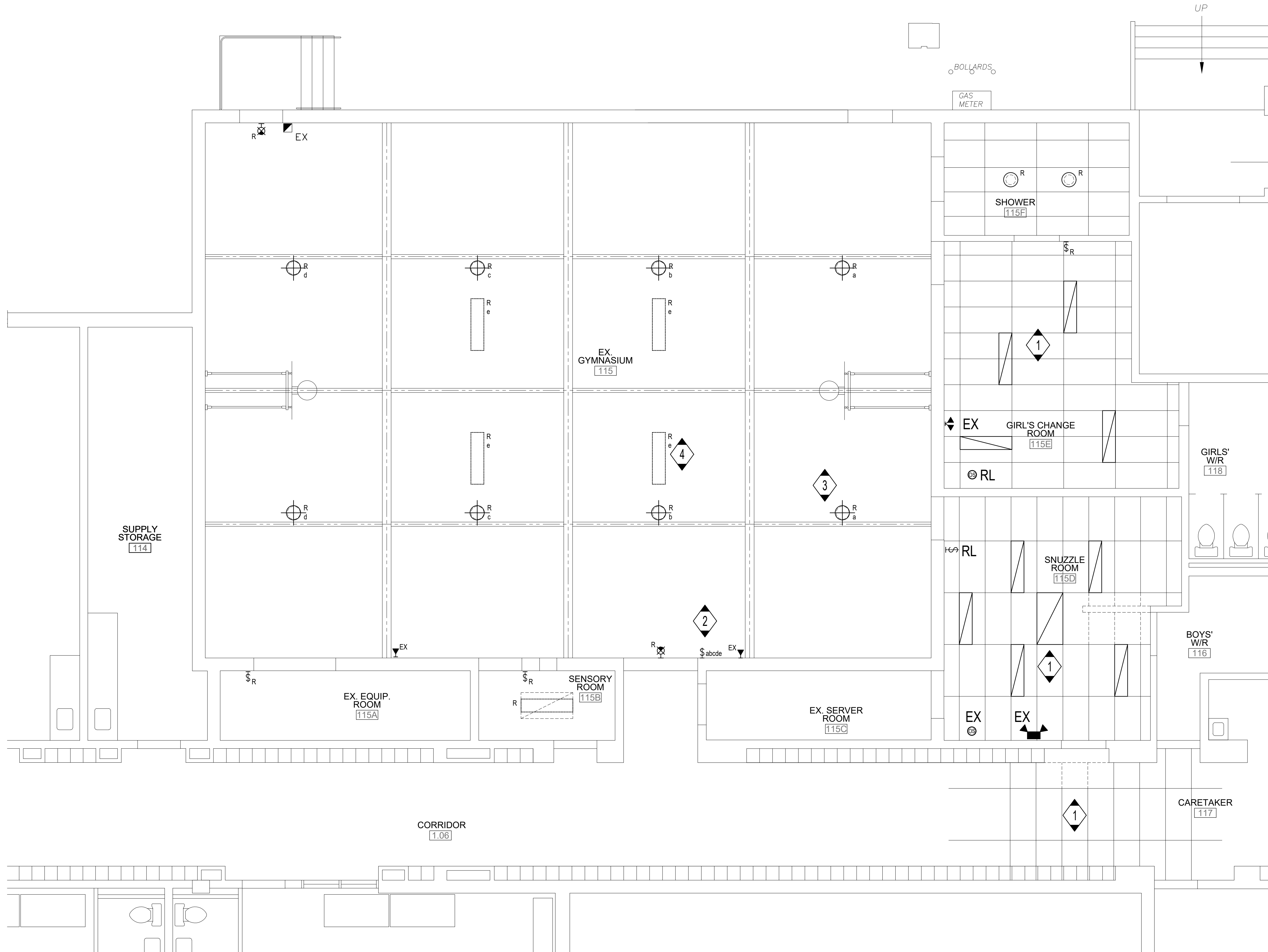
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UPGRADES
1332 PHILLIPS ST
FORT ERIE, ON L2A 3C2

OVERALL PLAN

GRGURIC
ARCHITECTS
INCORPORATED



SCALE: AS NOTED	PROJECT:
START DATE: MAY 2023	2023-12
DRAWN ABS	DRAWING:
CHECKED JP	E1.00
PRINT DATE	



1 FLOOR PLAN - DEMOLITION
E2.00 1:50

ELECTRICAL GENERAL
DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO EXISTING DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION:
MAKE/MODEL#
** MANUFACTURER
** TECHNICAL DETAILS
** LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FO RECORD PURPOSES.
4. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
5. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.
6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.
7. ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE.
8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR ARE UNUSED SHALL BE REMOVED.
9. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
10. WHERE REQUIRED COORDINATE WITH THE CONSULTANTS/OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVICING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVICING EXISTING DEVICES IN OTHER AREAS TO REMAIN.
11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH CONTROL. WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER AREAS THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.
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DRAWING NOTES

- 1 EXISTING LIGHT FIXTURES TO REMAIN.
- 2 REWIRE BANK OF 5 TOGGLE SWITCHES AS PER NEW PLANS.
- 3 *MAIN GYM LIGHTS* CONDUCTORS FOR LIGHT FIXTURES BEING REMOVED ARE TO BE REWIRED (TYPICAL, 8 FIXTURES).
- 4 *HOUSE LIGHTS* CONDUCTORS ARE TO BE CAPPED AT SWITCH AND IN A JUNCTION BOX AT CEILINGS WHERE FIXTURES ARE BEING REMOVED (TYPICAL, 4 FIXTURES).



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

NO	REVISIONS	DATE
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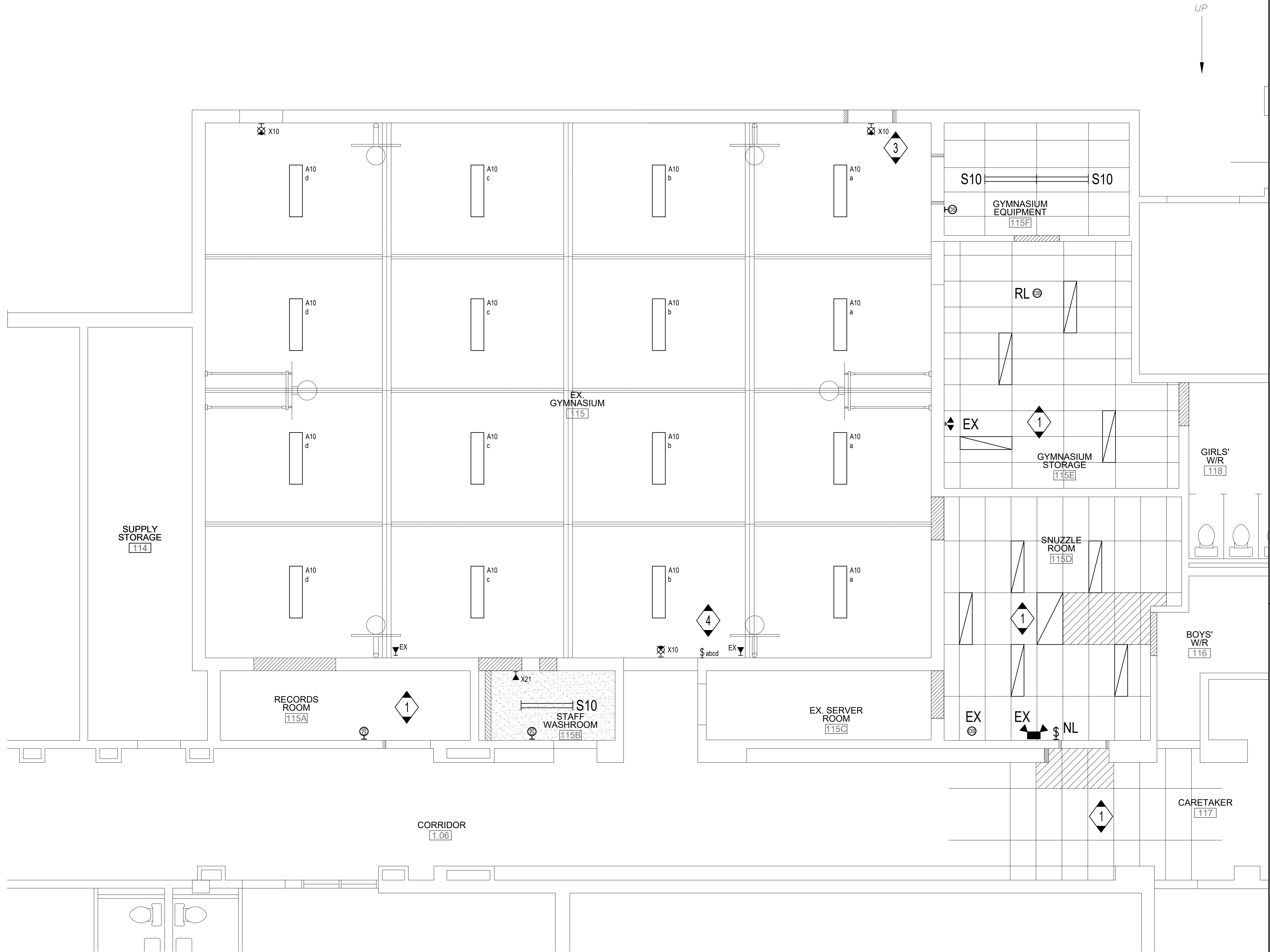
FLOOR PLAN -
DEMOLITION

GRGURIC
ARCHITECTS
INCORPORATED



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Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN ABS	DRAWING: E2.00
CHECKED JP	
PRINT DATE	



1 FLOOR PLAN - LIGHTING NEW
E3.00 1:50

GENERAL LIGHTING NOTES

- A. DRAWINGS ILLUSTRATE INTENT AND DO NOT NECESSARILY REPRESENT ALL REQUIRED CONTROL COMPONENTS, FINAL WIRING METHODS OR FIXTURE MOUNTING LOCATIONS. DETERMINE THE FINAL SYSTEM INSTALLATION BASED ON THE PRODUCT MANUFACTURER'S SHOP DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR PRECISE MOUNTING LOCATION OF LUMINAIRES.
- B. EXIT SIGNS ARE TO BE MOUNTED SO THEY ARE VISIBLE UPON APPROACH - NO HIGHER THAN 3000 AFF AND NO LOWER THAN 2100 AFF.
- C. WALL MOUNTED OCCUPANCY SENSORS ARE TO BE MOUNTED 3000 AFF OR AS HIGH AS POSSIBLE WHEN CEILINGS ARE LESS THAN 3000 HIGH.
- D. CEILING MOUNTED DUAL TECHNOLOGY (DT) SENSORS ARE TO BE MOUNTED NO HIGHER THAN 3000 AFF.
- E. CEILING MOUNTED MULTI-FUNCTION (MF) OR PHOTO INFRA RED (PIR) OCCUPANCY SENSORS ARE TO BE MOUNTED NO HIGHER THAN 3000 AFF.
- F. STRIP LIGHTS ARE TO BE CHAIN HUNG OR SURFACE MOUNTED NO HIGHER THAN 3000 AFF. MOUNTING HEIGHT SHALL BE CONSISTENT WITHIN ANY GIVEN SPACE.
- G. CONTROL DEVICES SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS ABOVE THE CEILING. WHERE FIXTURES ARE INSTALLED IN HARD CEILINGS, CONTROL DEVICES SHALL BE MOUNTED WITHIN THE FIXTURE DRIVER CHAMBER OR REMOTE MOUNTED IN THE NEAREST ACCESSIBLE CEILING. CONTROL DEVICES SHALL BE LABELED WITH THE CORRESPONDING CONTROL ZONE AND POWER CIRCUIT.
- H. CONTROL DEVICES SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SO THEY ARE CAPABLE OF OPERATING PROPERLY WITHOUT FALSE "ON" OR PREMATURE "OFF" OPERATIONS. DUAL TECHNOLOGY OCCUPANCY SENSORS SHALL NOT BE MOUNTED WITHIN 610 mm OF ANY HVAC DIFFUSER.
- I. CIRCUITS USED ARE FOR CIRCUITING PURPOSE ONLY. CONNECT NEW FIXTURES AND EXIT SIGNS TO EXISTING LOCAL NORMAL AND EMERGENCY POWER LIGHTING CIRCUITS AS INDICATED. LIGHTING IN SPACES IDENTIFIED AS NOT IN CONTRACT (IE. SHADED GREY) SHALL BE RE-CONNECTED TO THE SAME POWER PANEL(S) AS THEY WERE PRIOR TO START OF DEMOLITION WORK.

DRAWING NOTES

- 1 EXISTING LIGHT FIXTURES TO REMAIN.
- 2 REWIRE SWITCHING AS INDICATED FOR EXISTING BANK OF 5 LIGHT SWITCHES.
- 3 PROVIDE POWER FROM EXISTING EXIT SIGN CIRCUIT WITHIN GYM.
- 4 REWIRE AND EXTEND CONDUCTORS FROM EXISTING LIGHTING WITHIN GYM TO ALL REQUIRED FIXTURES. REWIRE QTY. 5 EXISTING TOGGLE SWITCHES IN 4 ROWS OF "MAIN GYM LIGHTS". DISCONNECT AND CAP "HOUSE LIGHT" AT SWITCH BANK AND AT CEILING FOR FUTURE USE.



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR PERMIT	2024-01-19
2	ISSUED FOR OWNER REVIEW	2023-12-19
1	ISSUED FOR REVIEW	2023-10-31

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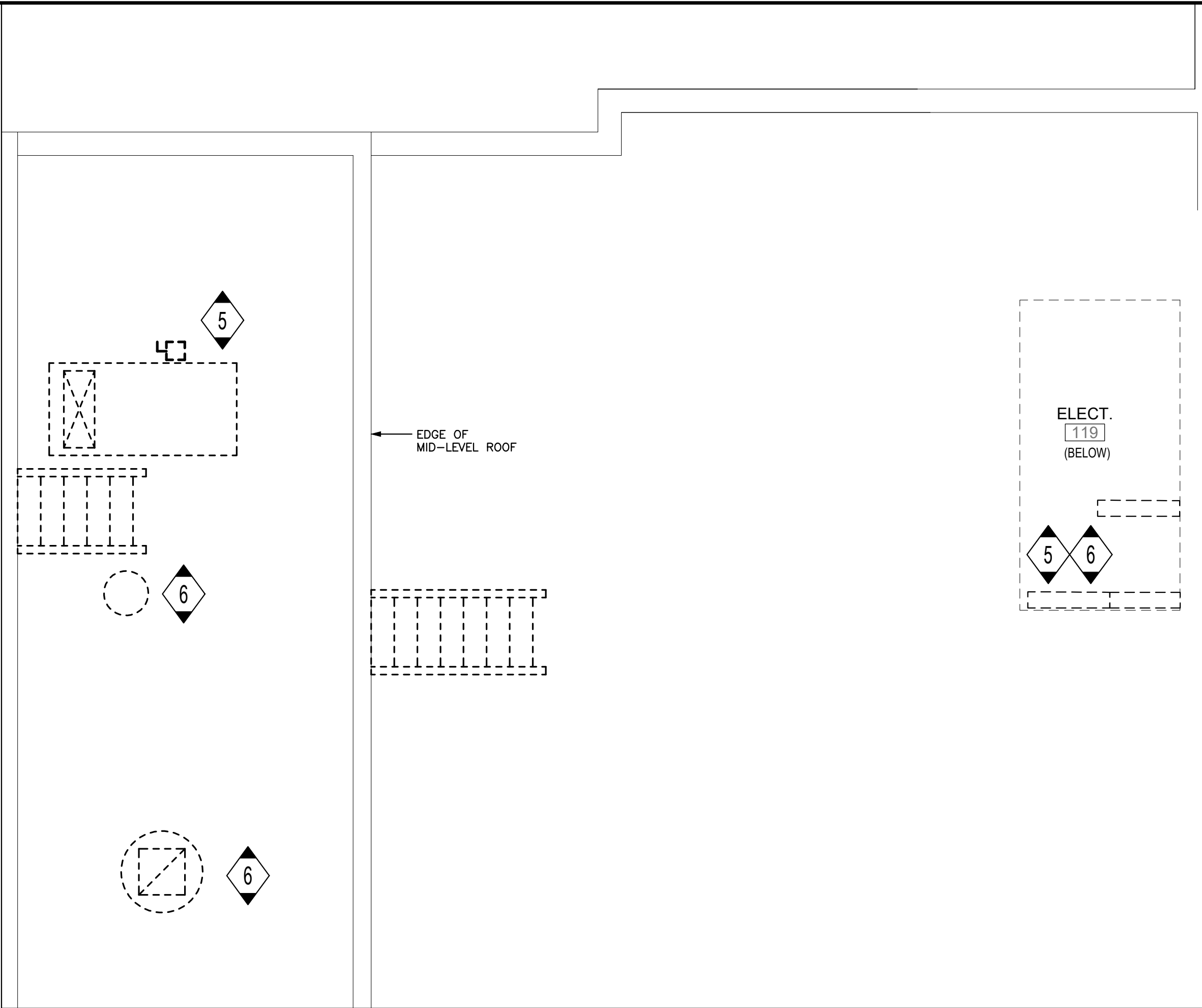
FLOOR PLAN - LIGHTING
NEW

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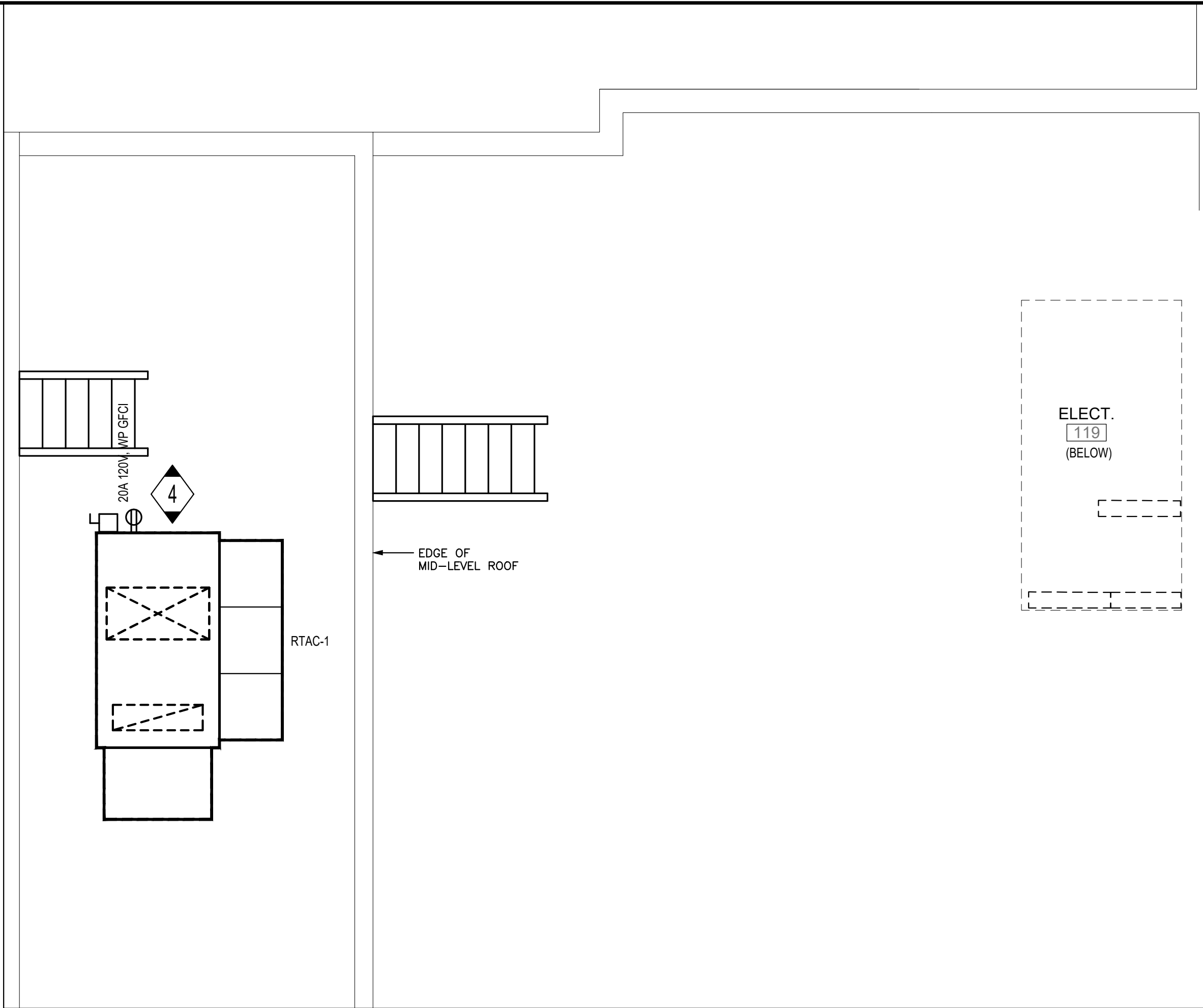


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SCALE: AS NOTED	PROJECT: 2023-12
START DATE: MAY 2023	
DRAWN: ABS	DRAWING: E3.00
CHECKED: JP	
PRINT DATE:	



3 ROOF PLAN - POWER DEMOLITION
E3.10 1:50



2 ROOF PLAN - POWER NEW
E3.10 1:50

GENERAL NOTES

- PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL VISIT SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT LOCATIONS AND OTHER POSSIBLE INSTALLATION DIFFICULTIES. PAY AND OBTAIN ANY PERMITS REQUIRED INCLUDING ESK.
- ALL CONDUIT ROUTES SHOWN ON DRAWINGS ARE APPROXIMATE AND NOT FINAL. CONTRACTOR SHALL VERIFY ROUTES AND DO A WALKTHROUGH BEFORE BID. CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO EXISTING CEILING AND LIGHT FIXTURES. ALL MAIN CONDUIT RUNS SHALL BE IN CORRIDOR CEILING SPACE.
- EXTEND/PROVIDE NEW WIRING/CONDUIT FOR ALL DEVICES THAT ARE RELOCATED.
- ALL NEW RECEPTACLES IN THE SCHOOL SHALL BE TAMPER RESISTANT TYPE.
- REMOVE AND RE-INSTALL ALL REQUIRED T-BAR OR DRY TYPE CEILINGS TO FACILITATE ELECTRICAL INSTALLATIONS. ANY DAMAGES TO T-BAR SHALL BE RE-INSTALLED.
- UNLESS OTHERWISE NOTED WITH A CIRCUIT NUMBER, RE-USE EXISTING CIRCUIT BREAKERS THAT HAD BECOME SPARE FROM THE DEMOLITION TO FEED NEW RECEPTACLES. MAXIMUM 6 DUPLEX RECEPTACLES PER CIRCUIT UNLESS OTHERWISE NOTED.
- ALL I.T. CABLES SHALL BE PLENUM RATED.
- CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO CEILING TILES FOR CONDUIT RUNS FROM PANELS TO NEW ELECTRICAL DEVICES.
- CIRCUIT NUMBERS SHOWN ON THIS PLAN ARE FOR CIRCUITING PURPOSE ONLY. REUSE EXISTING SPARE BREAKERS OR EXISTING BREAKERS MADE SPARE FROM DEMOLITION AND/OR REPLACE OBSOLETE BREAKERS WITH NEW AND/OR ADD NEW BREAKERS IN AVAILABLE SPACES IN EXISTING ELECTRICAL PANELS AS REQUIRED OR REPLACE EXISTING PANELS WITH NEW AS INDICATED. CONFIRM EXISTING CONDITIONS ON SITE.



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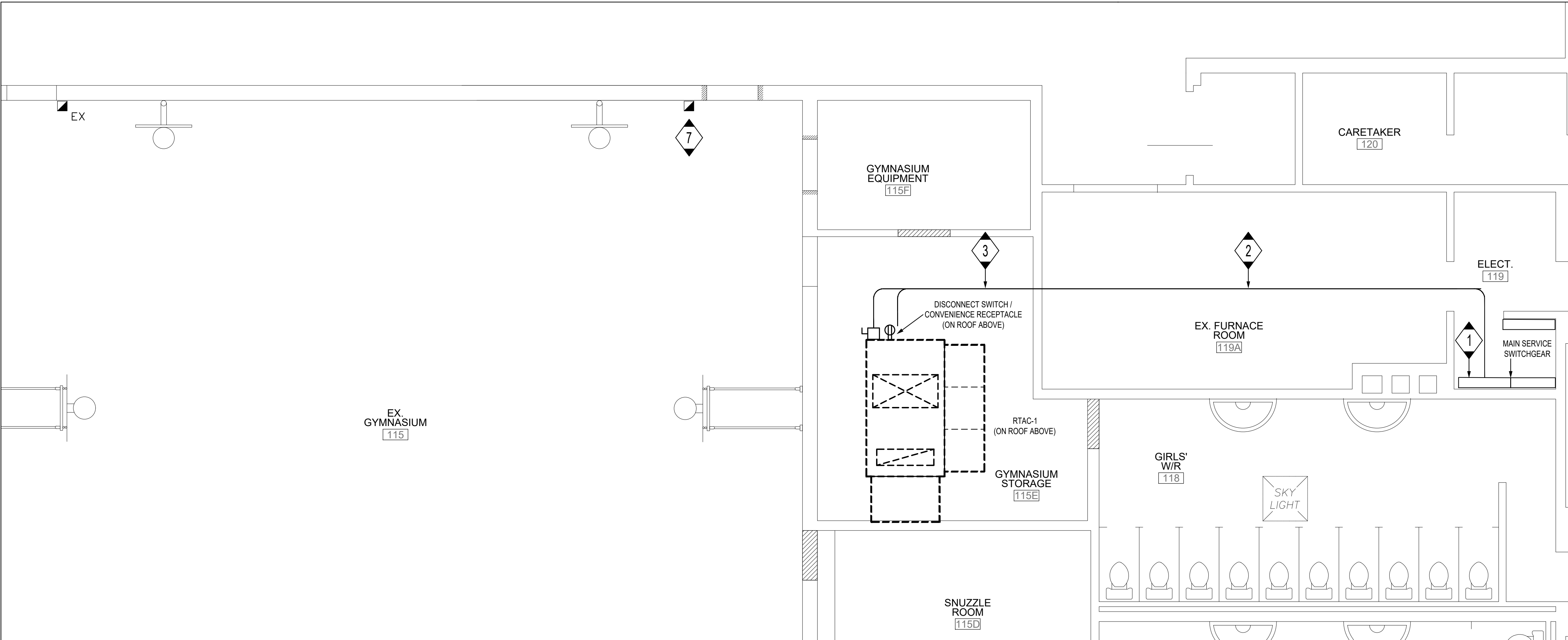
FLOOR PLAN - POWER
NEW, ROOF PLAN - POWER
NEW AND DEMOLITION

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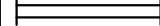

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1 FLOOR PLAN - POWER NEW
E3.10 1:50

DRAWING NOTES

- EXISTING MAIN SERVICE ENTRANCE SWITCHGEAR, 208Y/120V, 300A, 3PH 4W (FEDERAL PIONEER TYPE CDP 3N 1838820-001 / SCHNEIDER ELECTRIC), COMPLETE WITH PUC COMPARTMENT AND INTEGRAL DISTRIBUTION PANELS TO REMAIN.
PROVIDE NEW CIRCUIT BREAKERS AS FOLLOWS AND UPDATE PANEL DIRECTORY TO REFLECT THE CHANGES INCLUDING THOSE RE-PURPOSED AS SPARES:
-QTY 1 - 80A-3P - RTAC-1
-QTY 1 - 20A-1P - ROOFTOP CONVENIENCE RECEPTACLE
ADDITIONAL ELECTRICAL LOADING BY THIS RENOVATION: ~15kW
- SUPPLY AND INSTALL CONDUCTORS IN CONDUIT ALONG UIS OF CEILING FOR NEW HVAC UNIT AND CONVENIENCE RECEPTACLE:
-3C #3 AWG + GND R90 COPPER IN 35mm EMT, FOR NEW HVAC UNIT RTAC-1.
-2C #12 AWG + GND R90 COPPER IN 16mm EMT, FOR CONVENIENCE RECEPTACLE.
APPROXIMATE ROUTING IS SHOWN. THIS CONTRACTOR SHALL DETERMINE BEST ROUTING ON SITE C/W NECESSARY BENDS, OFFSETS AND PULL BOXES.
- WITHIN THIS ROOM, ARRANGE FOR REMOVAL AND REINSTALLATION OF CEILING TILES WITH GENERAL CONTRACTOR. ANY TILES DAMAGED BY THIS WORK ARE TO BE REPLACED. ALLOW IN PRICE FOR TEMPORARILY REMOVING LIGHT FIXTURES, FIRE ALARM DEVICES OR ANY OTHER IMPEDIMENTS TO INSTALL THE FEEDER CONDUIT IN CEILING SPACE. AFTER INSTALLATION, RE-INSTALL ALL LIGHT FIXTURES AND CEILING MOUNTED DEVICES.
- TERMINATE BRANCH CIRCUITS AT RTAC-1 FUSED DISCONNECT (PROVIDED BY OTHERS WITH HVAC UNIT) AND CONVENIENCE RECEPTACLE (GFCI PROVIDED BY THIS CONTRACTOR). THIS CONTRACTOR SHALL MOUNT THESE DEVICES AT REQUIRED LOCATIONS ON UNIT PER MANUFACTURER INSTRUCTIONS AND PER OESC REQUIREMENTS. FUSED DISCONNECT TO HAVE MIN. 1m WORKING CLEARANCE WITH SECURE FOOTING IN FRONT. RECEPTACLE TO BE MIN. 750mm ABOVE FINISHED ROOF. CONDUCTORS TO BE ROUTED THROUGH ROOF CURB.
- DISCONNECT EXISTING ROOFTOP UNIT FROM BRANCH CIRCUIT BREAKER (15A-3P) IN DISTRIBUTION PANEL SECTION AND FROM EXISTING ROOFTOP UNIT TO BE REPLACED. REMOVE BRANCH CONDUCTORS / CONDUIT IN ENTIRETY AND EXISTING CIRCUIT BREAKER IS TO REMAIN AS SPARE.
- DISCONNECT EXISTING EXHAUST FAN FROM BRANCH BREAKER IN DISTRIBUTION PANEL SECTION AND FROM UNIT BEING REMOVED BY OTHERS (QTY. 2 LOCATIONS). REMOVE BRANCH CONDUCTORS / CONDUIT IN ENTIRETY AND EXISTING BREAKERS ARE TO REMAIN AS SPARE.
- NEW MANUAL PULL STATION TO BE TIED INTO SAME ZONE AS EXISTING WITHIN GYM.

LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION / REQUIREMENTS	MOUNTING	INPUT WATTS	MANUFACTURER
A10 	- 8" WIDTH 4" LENGTH - 18GA. STEEL HOUSING - POLYCARBONATE LENS - VANDAL RESISTANT - 4000 LUMEN OUTPUT - 4000K COLOUR TEMPERATURE, 80 CRI - 120V LED DRIVER	PENDANT MOUNTED	125.9 W	COOPER - FAILSAFE HVSL8 OR APPROVED EQUALS
S10 	- 4'-0" LED STRIP ROUND - SEMI FROST LENS-NARROW - 3500 LUMEN OUTPUT - 4000K COLOUR TEMPERATURE, 80 CRI - 120V LED DRIVER	SURFACE MOUNTED	55W	COOPER LIGHTING - METALUX SNLED LENSED OR APPROVED EQUALS
AC 	- 2' X 4' LED TROFFER - STEEL HOUSING - ACRYLIC PRISMATIC LENS - 4800 NOMIAL LUMNES - 4000K COLOUR TEMPERATURE, 80 CRI - 120V LED DRIVER , 0-10V DIMMABLE	RECESSED ACOUSTICAL TILE CEILING	35W	COOPER LIGHTING - METALUX 24GR LED OR APPROVED EQUALS
<p>NOTE:</p> <p>1. FIXTURE DESCRIPTION AND REQUIREMENTS LISTED ARE RECOMMENDATIONS FOR THE FIXTURE TYPE UTILIZED IN THIS PROJECT AND MAY NOT INCLUDE ALL OPTIONS AVAILABLE FOR EVERY MANUFACTURERS FIXTURE SERIES LISTED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE FIXTURE INSTALLED WITH ALL NECESSARY HARDWARE.</p>				



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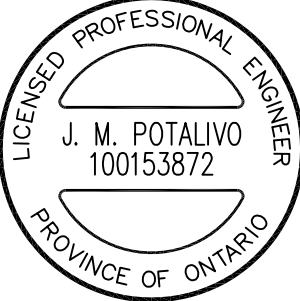
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