

WASHROOM RENOVATION



DURHAM DISTRICT SCHOOL BOARD, PORT PERRY HIGH SCHOOL
160 ROSA STREET,
PORT PERRY, ON

LIST OF DRAWINGS

ARCHITECTURAL

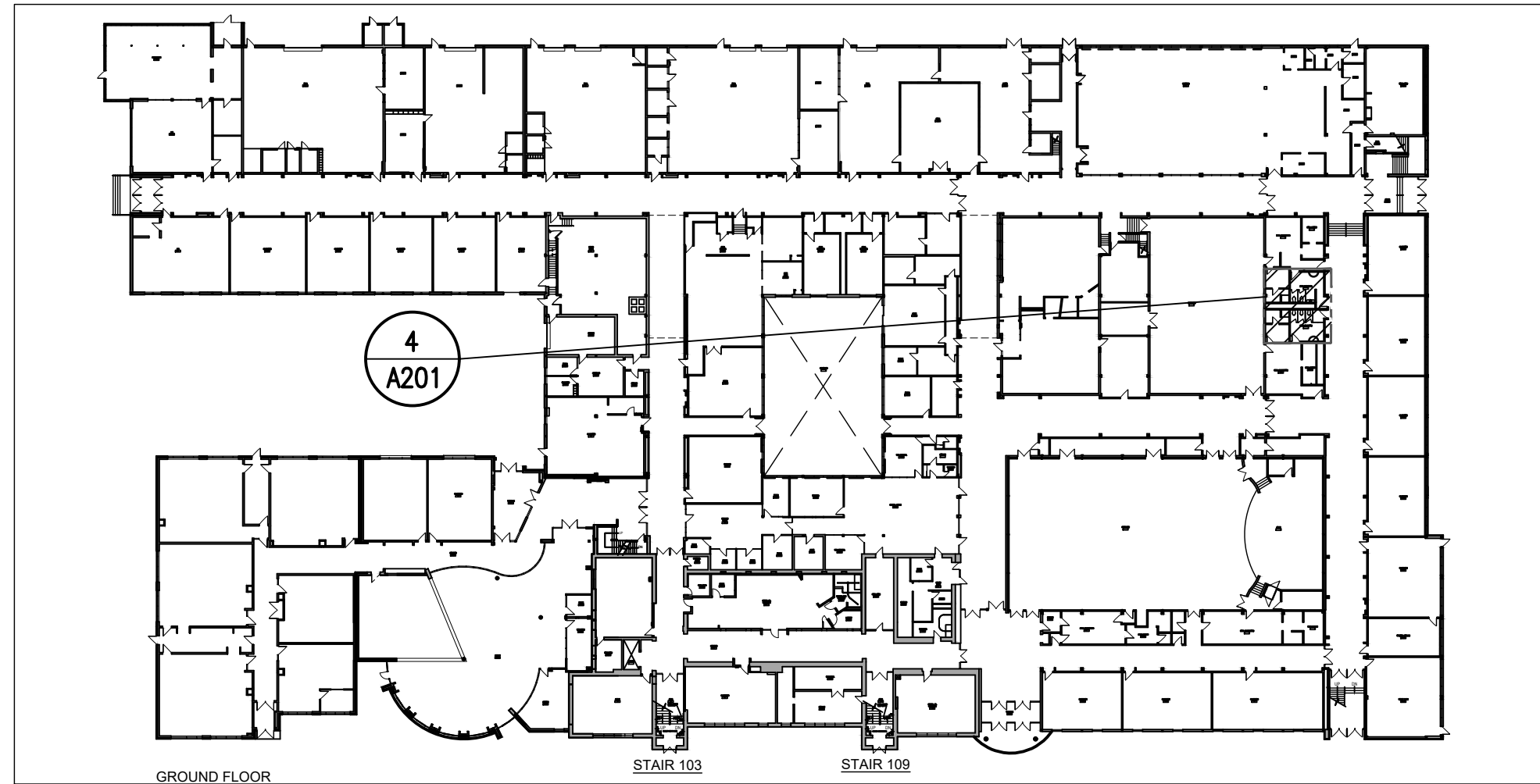
- A000 DRAWING LIST, LOCATION AND KEY PLAN
- A201 PART DEMOLITION AND PART PLANS
- A202 ENLARGED PLANS
- A401 SECTIONS & DETAILS
- A701 ELEVATIONS & SCHEDULES

ELECTRICAL

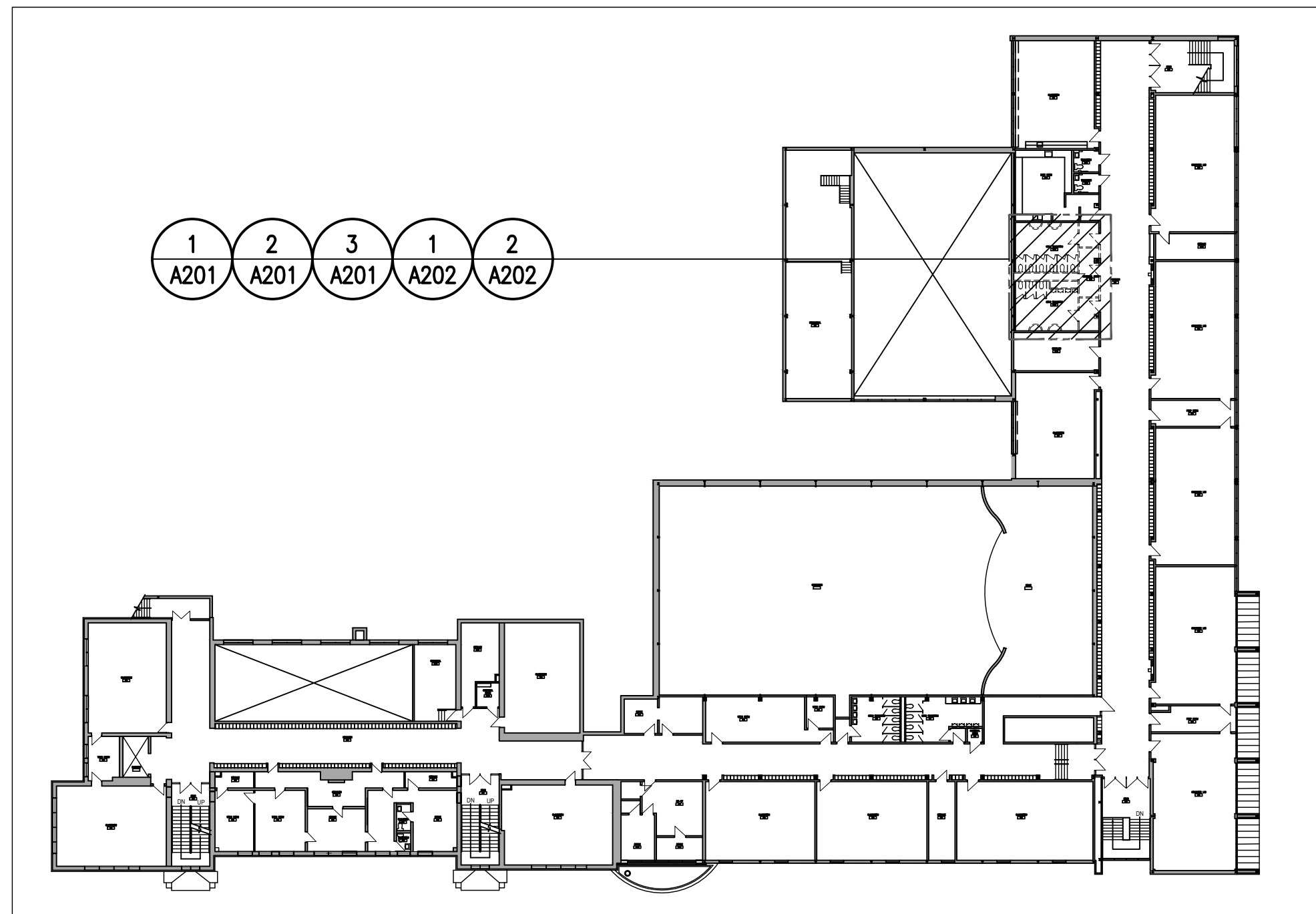
- E-1.1 ELECTRICAL LEGEND AND DETAILS
- E-1.2 ELECTRICAL DETAILS
- E-1.3 ELECTRICAL DETAILS
- E-2.1 ELECTRICAL PLAN
- E-2.2 ELECTRICAL PLAN SECOND FLOOR
- E-3.2 REFLECTED CEILING PLAN SECOND FLOOR
- E-5.2 ELECTRICAL DEMOLITION PLAN SECOND FLOOR
- E-6.2 REFLECTED CEILING DEMOLITION PLAN SECOND FLOOR

MECHANICAL

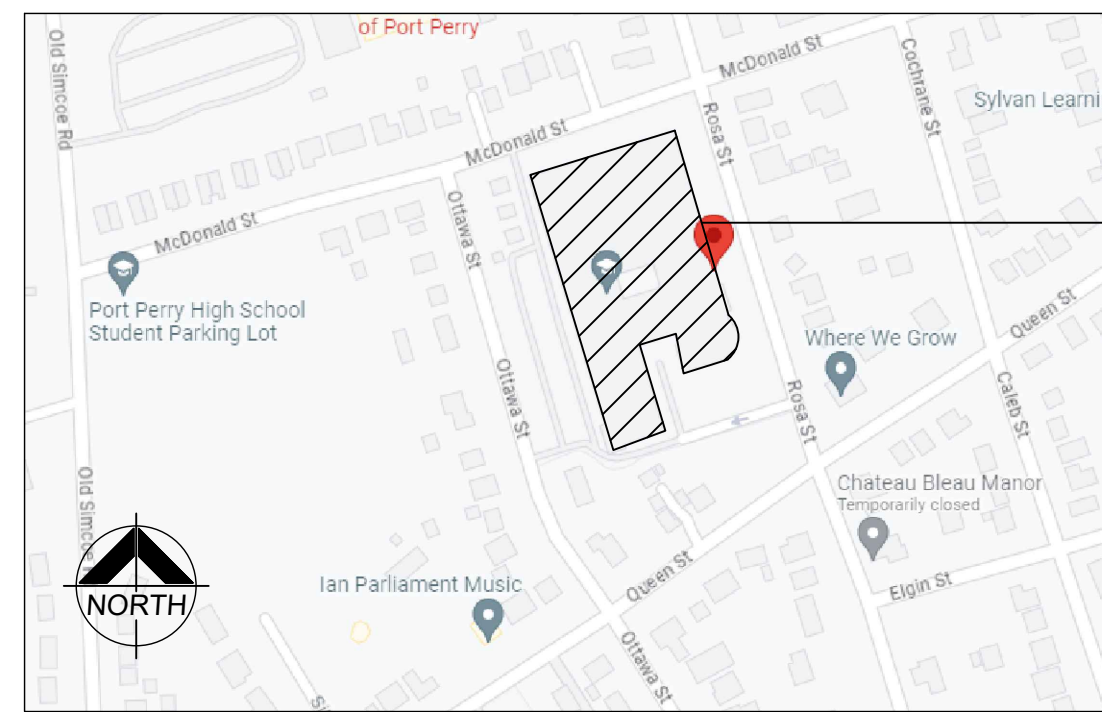
- M-1.1 MECHANICAL LEGEND
- M-1.2 MECHANICAL SCHEDULES AND DETAILS
- M-2.1 PART FIRST AND SECOND FLOOR PLAN - HVAC DEMOLITION
- M-2.2 PART FIRST AND SECOND FLOOR PLAN - HVAC NEW
- M-3.1 PART FIRST AND SECOND FLOOR PLAN - PLUMBING DEMOLITION
- M-3.2 PART FIRST AND SECOND FLOOR PLAN - PLUMBING NEW
- M-3.3 PART FIRST AND SECOND FLOOR PLAN - DRAINAGE DEMOLITION
- M-3.4 PART FIRST AND SECOND FLOOR PLAN - DRAINAGE NEW



2 PART FIRST FLOOR KEY PLAN
A000



1 PART SECOND FLOOR KEY PLAN
A000



3 LOCATION PLAN
A000

ARCHITECTURAL AND STRUCTURAL:



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

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ELECTRICAL:



MECHANICAL:



NAME OF PROJECT : PORT PERRY HIGH SCHOOL GENDER NEUTRAL WASHROOMS
CERTIFICATE OF PRACTICE NUMBER : 5192
250 WATER STREET, SUITE 201
WHITBY, ONTARIO, CANADA. L1N 0G5
TEL : (905) - 666 - 5252
(Toronto) (905) - 427 - 4495
FAX : (905) - 666 - 5256

NAME OF PROJECT :
DDSB PORT PERRY HIGH SCHOOL GENDER NEUTRAL WASHROOMS
APPROX. RENOVATION AREA: 72 m²

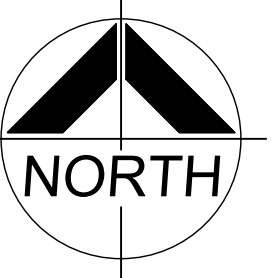
LOCATION OF PROJECT :
PORT PERRY HIGH SCHOOL 160 ROSA ST, PORT PERRY, ON L9L 1L7
DATE :
NOVEMBER 2023

Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building			OBC Reference
11.00	Building Code Version: <u>O_Reg_332/12</u> Last Amendment: <u>O_Reg_191/14</u>		
11.01	Project Type: <input type="checkbox"/> Addition <input type="checkbox"/> Change of use <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation Description: <u>INTERIOR SECOND FLOOR WASHROOM RENOVATION</u>	[A] 1.1.2.	
11.02	Major Occupancy Classification: Occupancy: <u>A2</u> Use: <u>SECONDARY SCHOOL</u>	3.1.2.1.(1)	
11.03	Superimposed Major Occupancies: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description: <u>-</u>	3.2.2.7	
11.04	Building Area (m ²): Description: <u>GROUND FLOOR (N.I.S)</u> Existing: <u>12173</u> New: <u>-</u> Total: <u>12173</u> <u>SECOND FLOOR</u> Existing: <u>4053</u> New: <u>-</u> Total: <u>4053</u> <u>THIRD FLOOR (N.I.S)</u> Existing: <u>967</u> New: <u>-</u> Total: <u>967</u> Total= Existing: <u>17193</u> New: <u>-</u> Total: <u>17193</u>	[A] 1.4.1.2.	
11.05	Building Height: <u>THREE</u> Storeys above grade EX. +/--13 (m) Above grade <u>ZERO</u> Storeys below grade	[A] 1.4.1.2 & 3.2.1.1	
11.06	Number of streets/ fire fighter access: <u>THREE</u> street(s)	3.2.2.10 & 3.2.5	
11.07	Building Size: <input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large	T.11.2.1.1.B.-N.	
11.08	Existing Building Classification: Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: <u>5</u> Hazard Index: <u>6</u> Importance Category: <input type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" type="checkbox"/> High <input type="checkbox"/> Post-disaster	11.2.1 T11.2.1.1A T11.2.1.1B to N, 4.2.1(3) & 5.2.2.1.(2)	
11.09	Renovation Type: <input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1 & 11.3.3.2	
11.10	Occupant Load: Floor Level/ Area: <u>TOTAL LOAD</u> Occupancy Type: <u>ASSEMBLY</u> Based On: <u>DESIGN</u> Occup. Load: <u>1000</u> (PER EXISTING RENOVATION AREA)	3.1.17	
11.11	Plumbing Fixture Equipments: Ratio: <u>458 FEMALE/483 MALE = BY REGISTRATION</u> Floor level/ Area: <u>STUDENTS/STAFF</u> Occupant Load: <u>1000</u> OBC Reference: <u>3.7.4.3(14)</u> Fixtures Required: <u>37</u> Fixtures Provided: <u>54</u>	3.7.4 OCCUPANT LOAD PROVIDED BY DDSB FOR DESIGN	
11.12	Barrier-free Design: <input checked="" type="checkbox"/> Yes Explanation: <u>FOR EXTENTS OF RENOVATION ONLY</u> <input type="checkbox"/> No	11.3.3.2.(2)	
11.13	Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5	
11.14	Compensating Construction: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By Increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7	
11.15	Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1.	
11.16	Notes: RENOVATION OF EXISTING GIRL'S AND BOY'S WASHROOMS TO INCLUSIVE WASHROOM SUITES (AREA OF WORK 72m ²)	11.5.1	

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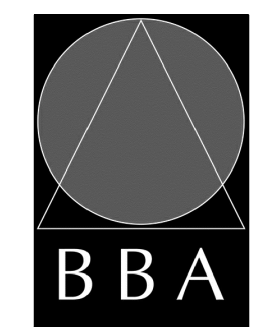
NO.	ISSUES	DATE	BY
1	ISSUED FOR 30% REVIEW	AUG. 01 2023	BBA
2	REISSUED FOR 30% REVIEW	DEC. 01 2023	BBA
3	ISSUED FOR 75% REVIEW	JAN. 12 2024	BBA
4	ISSUED FOR PERMIT AND TENDER	FEB. 01 2024	BBA
5	ISSUED FOR CONSTRUCTION	MAR. 18 2024	BBA
NO.	REVISIONS	DATE	BY



PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL

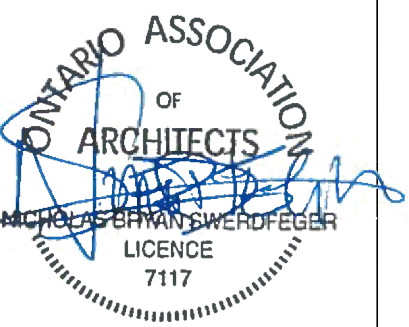
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
**DRAWING LIST,
LOCATION AND KEY PLAN**



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

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L1N 0G5
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Fax: (905) 666-5256
e-mail: bba@bbba-archeng.com



DESIGN BY: BBA
DRAWN BY: JM
CHECKED BY: []
DATE: SEPTEMBER 2023
SCALE: AS NOTED
FILE: []

PROJECT NO: **23091**
DRAWING NO: **A000**

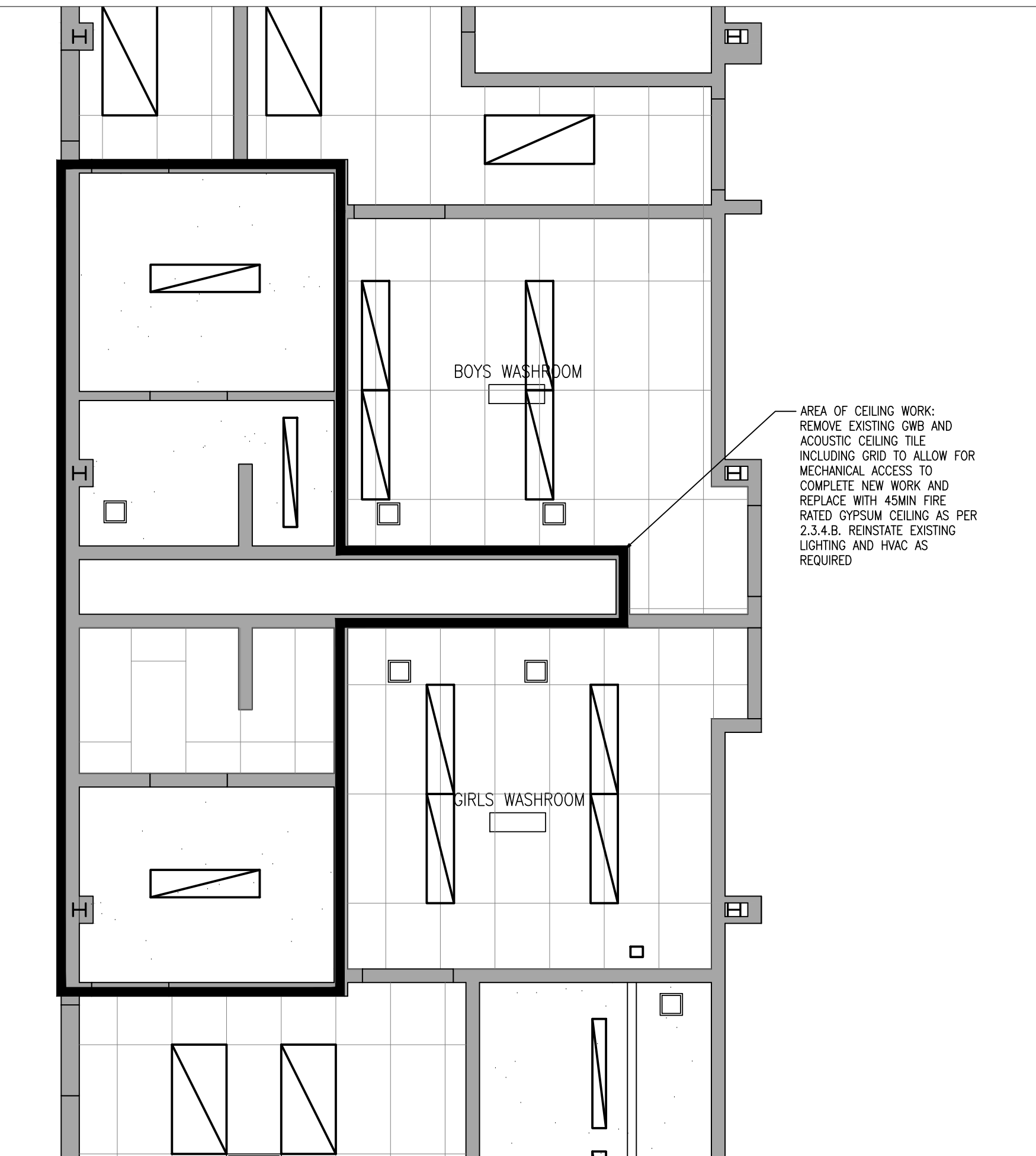
- TYPICAL DEMOLITION NOTES**
- SITE VERIFY ALL DIMENSIONS AND CONDITIONS.
 - ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.
 - COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
 - PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, OR PART THEREOF.
 - COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES BUT NOT LIMITED TO COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.
 - ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.
 - PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.
 - PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL, OR CAUSE OTHERS TO FALL.
 - MAINTAIN ALL WORK AREAS AND ALL STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES INCLUDING EXISTING AREAS THAT REMAIN IN OPERATION DURING CONSTRUCTION. DUST CONTROL MEASURES ARE TO BE IN PLACE AT ALL TIMES AND NOISY WORK SHALL BE COORDINATED AROUND PROGRAM EVENTS.
 - REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND REPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEAKING OF SLABS.
 - DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.
 - SAWCUT, BREAK OUT AND MAKE GOOD (MATCH EXISTING UNLESS OTHERWISE NOTED) ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW PLUMBING AND OTHER SERVICES AS INDICATED AND AS REQUIRED ON MECHANICAL AND ELECTRICAL DRAWINGS.
 - MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.
 - REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.
 - REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.
 - CLEAN, PATCH / REPAIR ALL EXISTING SURFACES TO REMAIN TO RECEIVE NEW FINISHES. ALLOW FOR REMOVAL OR SCARIFICATION OF EXISTING PAINT FINISH ON WALLS THAT ARE TO RECEIVE NEW WALL TILE FINISH. REMOVE ALL MORTAR, ADHESIVES AND RUST AS REQUIRED TO PREPARE EXISTING SUBSTRATES TO RECEIVE NEW PAINT FINISHES.
 - DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.
 - DISPOSE OF MATERIALS OFF SITE.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
 - BUILDING TO BE SECURED BY THE G.C. AT ALL TIMES.
 - REFER TO HAZARDOUS BUILDING MATERIALS ASSESSMENT, FILE # 13092 Port Perry HS, 20230201, limited DDSB Report DATED FEBRUARY 02, 2023, PREPARED BY PARASOL. HAZARDOUS REMOVALS SHALL COMPLY WITH CURRENT LEGISLATION.

- DEMOLITION LEGEND**
- EXISTING WALL, PARTITION OR COLUMN
 - DENOTES DEMOLITION OF BUILDING ELEMENT
 - EXISTING DOOR, FRAME AND TRIM TO REMAIN
 - EXISTING DOOR, FRAME AND TRIM TO BE CAREFULLY REMOVED AND DISPOSED OF.
 - NEW DOOR, FRAME AND TRIM TO BE INSTALLED.

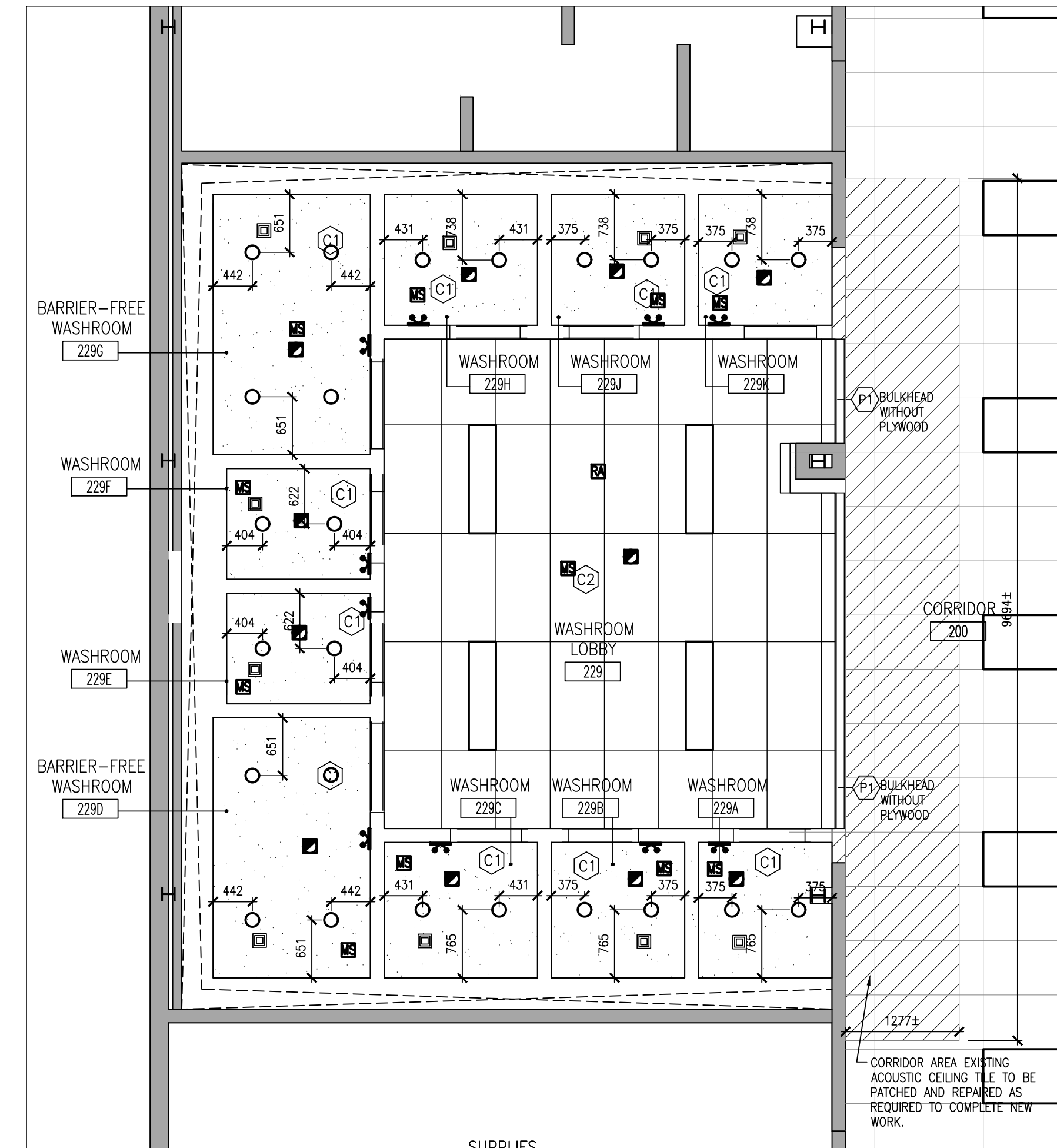
- DEMOLITION NOTES**
- REMOVE AND DISPOSE OF EXISTING DOOR & FRAME. PATCH, REPAIR AND MAKE GOOD AFFECTED SURFACES.
 - REMOVE AND DISPOSE OF EXISTING CONCRETE BLOCK WALL (AT EXTENT SHOWN) IN ITS ENTIRETY. PATCH, REPAIR AND MAKE GOOD AFFECTED SURFACES AS REQUIRED FOR NEW WORK. (SHORE STRUCTURE AS REQUIRED)
 - REMOVE AND DISPOSE OF EXISTING ACOUSTIC CEILING INCLUDING ALL GRIDS, LIGHTING, DIFFUSERS, GRILLES AND ELECTRICAL DEVICES. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
 - REMOVE EXISTING URINALS AND WATER CLOSETS. CAP EXISTING SERVICES AS REQUIRED FOR NEW SCOPE.
 - REMOVE AND DISPOSE OF EXISTING GANG SINKS. REMOVE EXISTING SERVICES AS REQUIRED FOR NEW SCOPE. REFER TO MECHANICAL. PATCH ALL HOLES IN THE FLOOR AS REQUIRED TO COMPLETE NEW WORK.
 - REMOVE AND DISPOSE OF EXISTING TOILET PARTITIONS.
 - REMOVE AND DISPOSE OF EXISTING GYPSUM CEILING INCLUDING, LIGHTING, DIFFUSERS, GRILLES AND ELECTRICAL DEVICES. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
 - REMOVE ALL EXISTING SERVICING FROM SHAFT AND RELOCATE. SEE MECHANICAL AND ELECTRICAL.
 - REMOVE AND DISPOSE OF EXISTING VINYL, COMPOSITE TILE AND RUBBER BASE. BREAK OUT TOP OF EXISTING CONCRETE SLAB TO ALLOW FOR INSTALLATION OF TERRAZZO TO MATCH ADJACENT TERRAZZO. PATCH REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
 - REMOVE AND DISPOSE OF EXISTING TERRAZZO BASE INCLUDING ALL ADHESIVES AT EXTENT SHOWN. PATCH REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.

- PARTITION TYPE SCHEDULE**
- P1 16mm GYPSUM BOARD
19mm PLYWOOD
92mm METAL STUDS @ 400 O.C.
SOUND INSULATION BATTS
19mm PLYWOOD
16mm GYPSUM BOARD
WALL TO TERMINATE AT UNDERSIDE OF DECK
 - P2 140mm CONCRETE BLOCK
WALL TO TERMINATE AT UNDERSIDE OF DECK
- FURRING TYPE SCHEDULE**
- F1 16mm GYPSUM BOARD
19mm PLYWOOD
92mm METAL STUDS @ 400 O.C.
WALL TO TERMINATE AT UNDERSIDE OF DECK
 - F2 16mm GYPSUM BOARD
FURRING CHANNELS @ 400 O.C.
WALL TO TERMINATE AT UNDERSIDE OF DECK

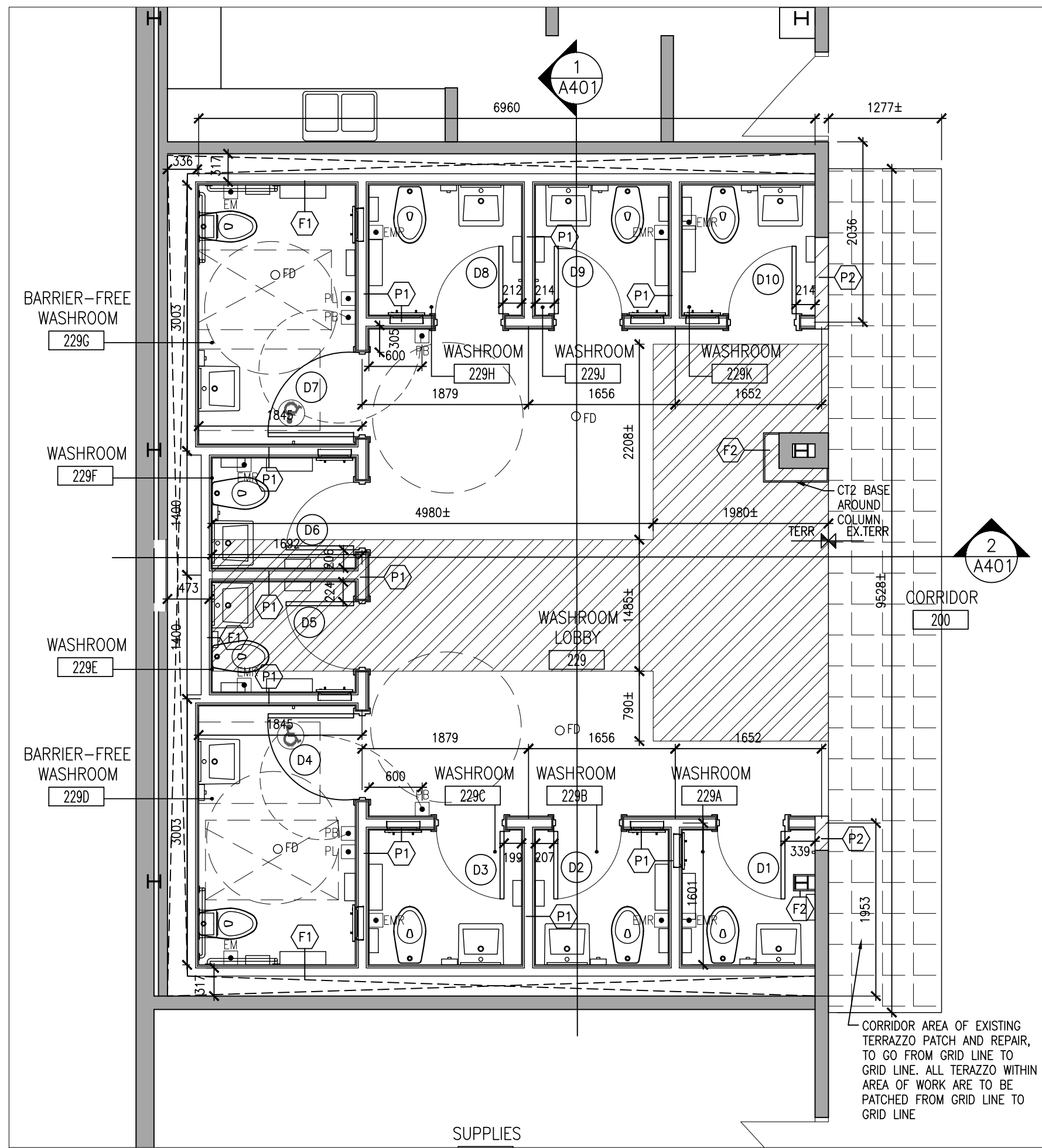
- FLOOR PLAN NOTATION LEGEND**
- CORRIDOR**
- CA ROOM NAME & NUMBER
 - (W) INTERIOR PARTITION OR FURRING TYPE
 - EM EMERGENCY CALL BUTTON
 - PO PUSH BUTTON OPERATOR
 - PL PUSH TO LOCK
 - 11 WALL SECTION REFERENCE
 - 12 INTERIOR ELEVATION REFERENCE NUMBER
 - B F.R.R. FIRE RESISTANCE RATING
 - FD FLOOR DRAIN
 - FIN 2 FIN 1 FLOOR FINISH TYPE (SEE ALSO ROOM FINISH SCHEDULE)
 - IDENTIFIES LOCATION OF ALL NEW TERRAZZO ±
 - IDENTIFIES EXISTING CORRIDOR TERRAZZO EXTENTS OF REPAIRS ±
- RCP LEGEND**
- EXISTING EXHAUST GRILL
 - EXISTING SUSPENDED LIGHT FIXTURE REFER TO ELECTRICAL
 - EXISTING EMERGENCY LIGHT REFER TO ELECTRICAL
 - POT LIGHT, REFER TO ELECTRICAL
 - EXHAUST GRILL, REFER TO MECHANICAL
 - SUSPENDED LIGHT FIXTURE, REFER TO ELECTRICAL
 - EMERGENCY LIGHT, REFER TO ELECTRICAL
 - OCCUPANCY SENSOR, REFER TO ELECTRICAL
 - DIMMING CONTROLLER, REFER TO ELECTRICAL
 - SMOKE DETECTOR, REFER TO ELECTRICAL
 - 16MM NEW SUSPENDED MOISTURE RESISTANT GYPSUM BOARD CEILING
 - ACOUSTIC CEILING TILE



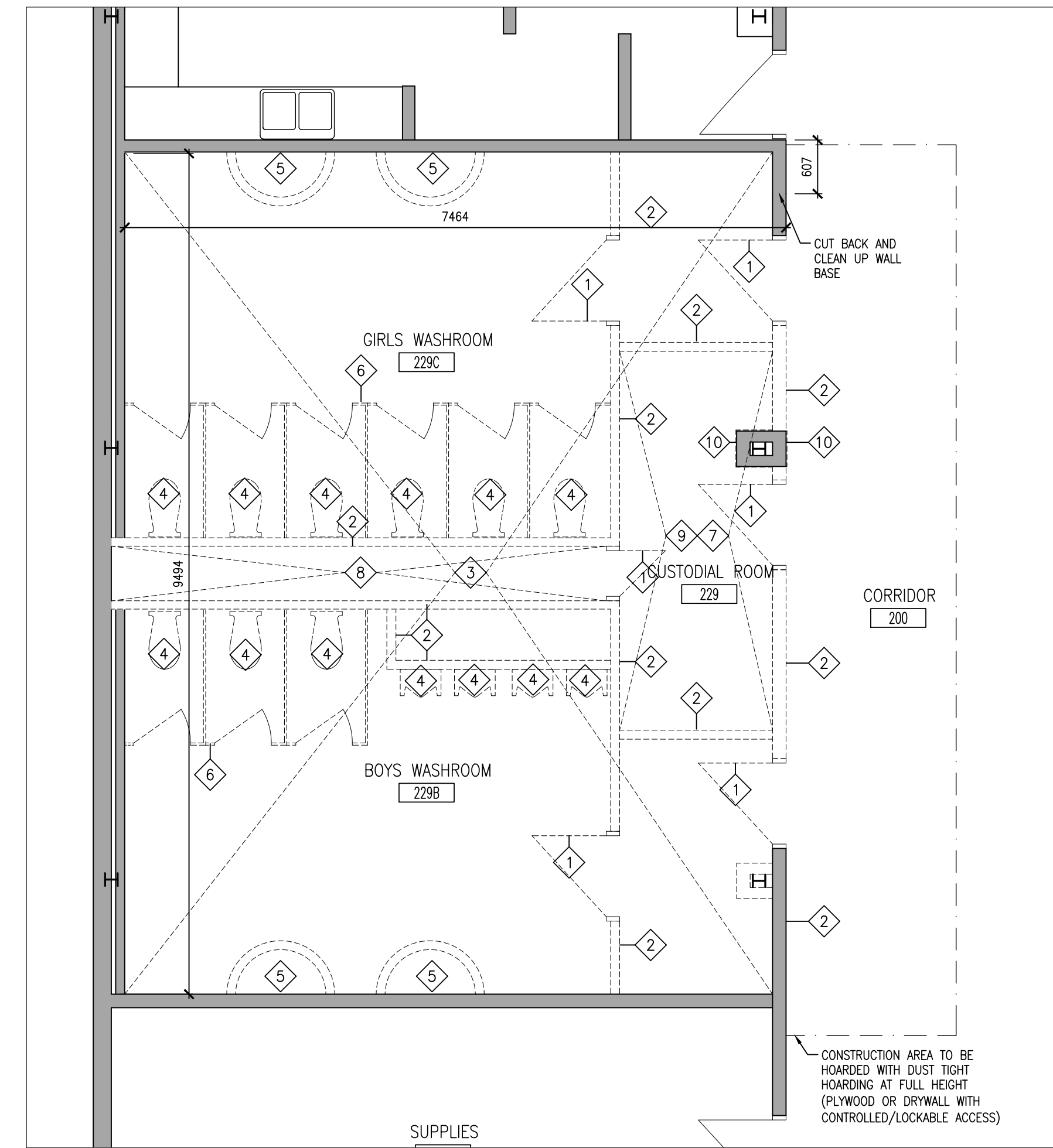
4 PART FIRST FLOOR REFLECTED CEILING PLAN
A201 1:50



2 PART SECOND FLOOR REFLECTED CEILING PLAN
A201 1:50



3 PART SECOND FLOOR PLAN
A201 1:50



1 PART SECOND FLOOR DEMOLITION PLAN
A201 1:50

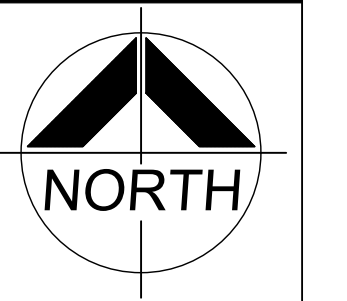
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NO.	ISSUES	DATE	BY
1	ISSUED FOR 30% REVIEW	AUG. 01 2023	BBA
2	REISSUED FOR 30% REVIEW	DEC. 01 2023	BBA
3	ISSUED FOR 75% REVIEW	JAN. 12 2024	BBA
4	ISSUED FOR PERMIT AND TENDER	FEB. 01 2024	BBA
5	ISSUED FOR CONSTRUCTION	MAR. 18 2024	BBA

1	ISSUED FOR ADDENDUM	FEB. 13 2024	BBA
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NO.	REVISIONS	DATE	BY
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PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
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DURHAM DISTRICT SCHOOL BOARD

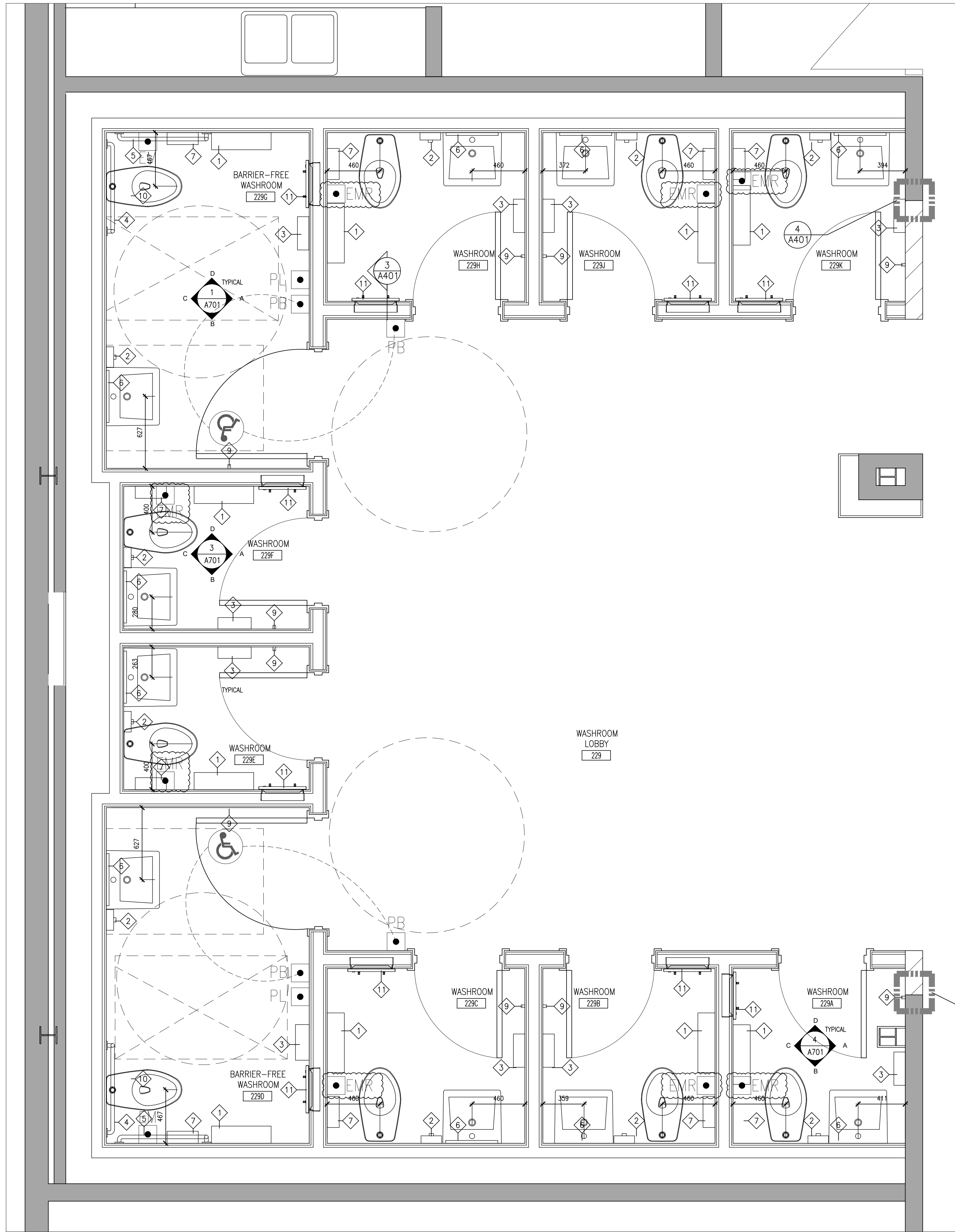
DRAWING:
PART DEMOLITION AND PART PLANS

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BARRY BRYAN ASSOCIATES
Architects
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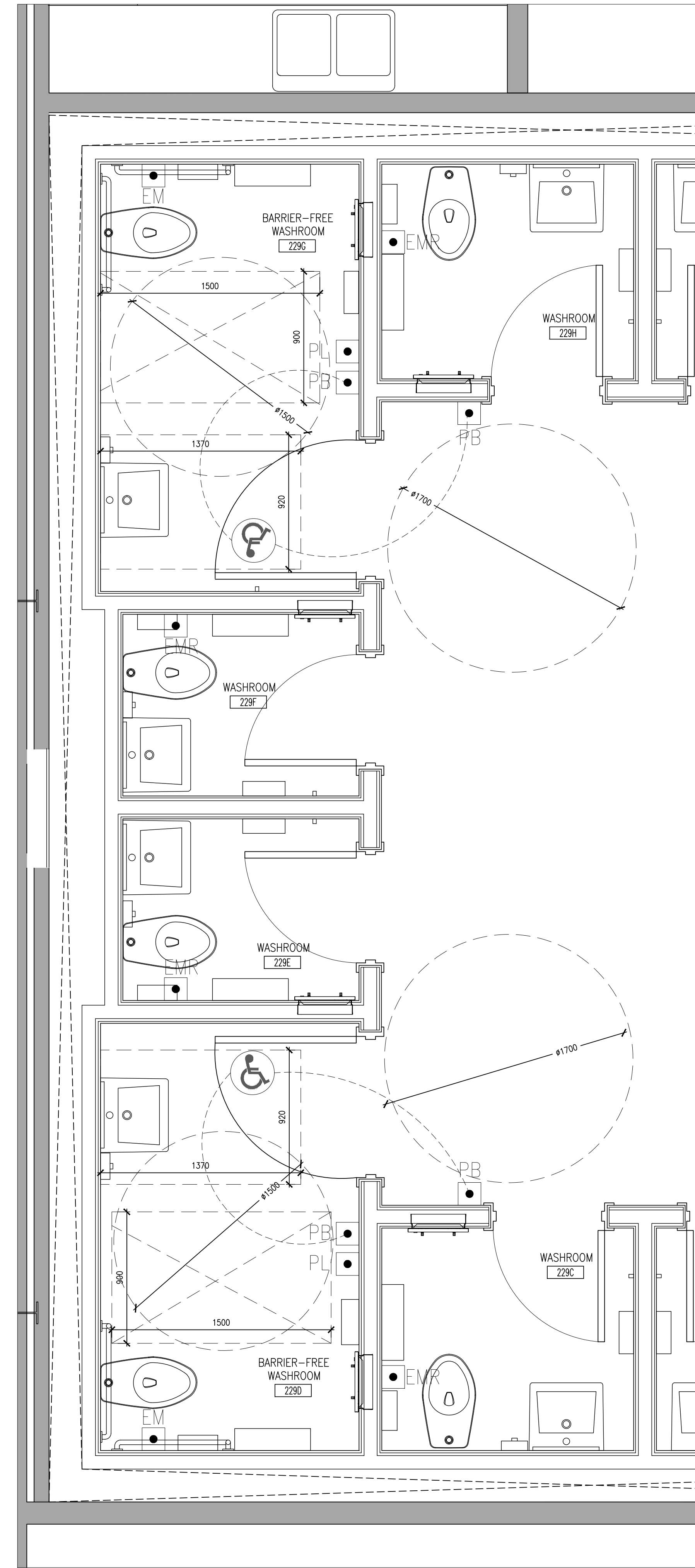
ONTARIO ASSOCIATION OF ARCHITECTS
MICHAEL BRYAN, P. ENG.
LICENCE 7117

DESIGN BY: BBA	DOC. CONTROL: DATE:
DRAWN BY: JM	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: SEPTEMBER 2023	SCALE: AS NOTED
FILE:	

PROJECT NO: **23091**
DRAWING NO: **A201**

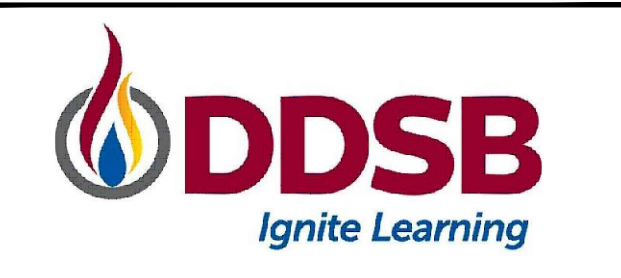


2 PART SECOND FLOOR PLAN
A202 1:20



1 PART SECOND FLOOR ACCESSIBILITY CLEARANCE PLAN
A202 1:20

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3	ISSUED FOR 75% REVIEW	JAN. 12 2024	BBA
4	ISSUED FOR PERMIT AND TENDER	FEB. 01 2024	BBA
5	ISSUED FOR CONSTRUCTION	MAR. 18 2024	BBA

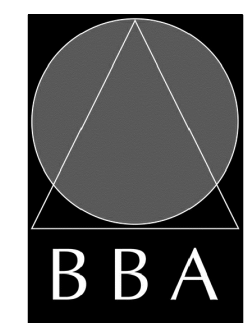
1	ISSUED FOR ADDENDUM	FEB. 13 2024	BBA
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NO.	REVISIONS	DATE	BY
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WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD


DRAWING:
ENLARGED PLANS



B B A

BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

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Tel: (905) 666-6252
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e-mail: bba@bba-archeng.com



ONTARIO ASSOCIATION
OF
ARCHITECTS
MICHAEL STEPHAN WERFELBERGER
LICENCE
7117

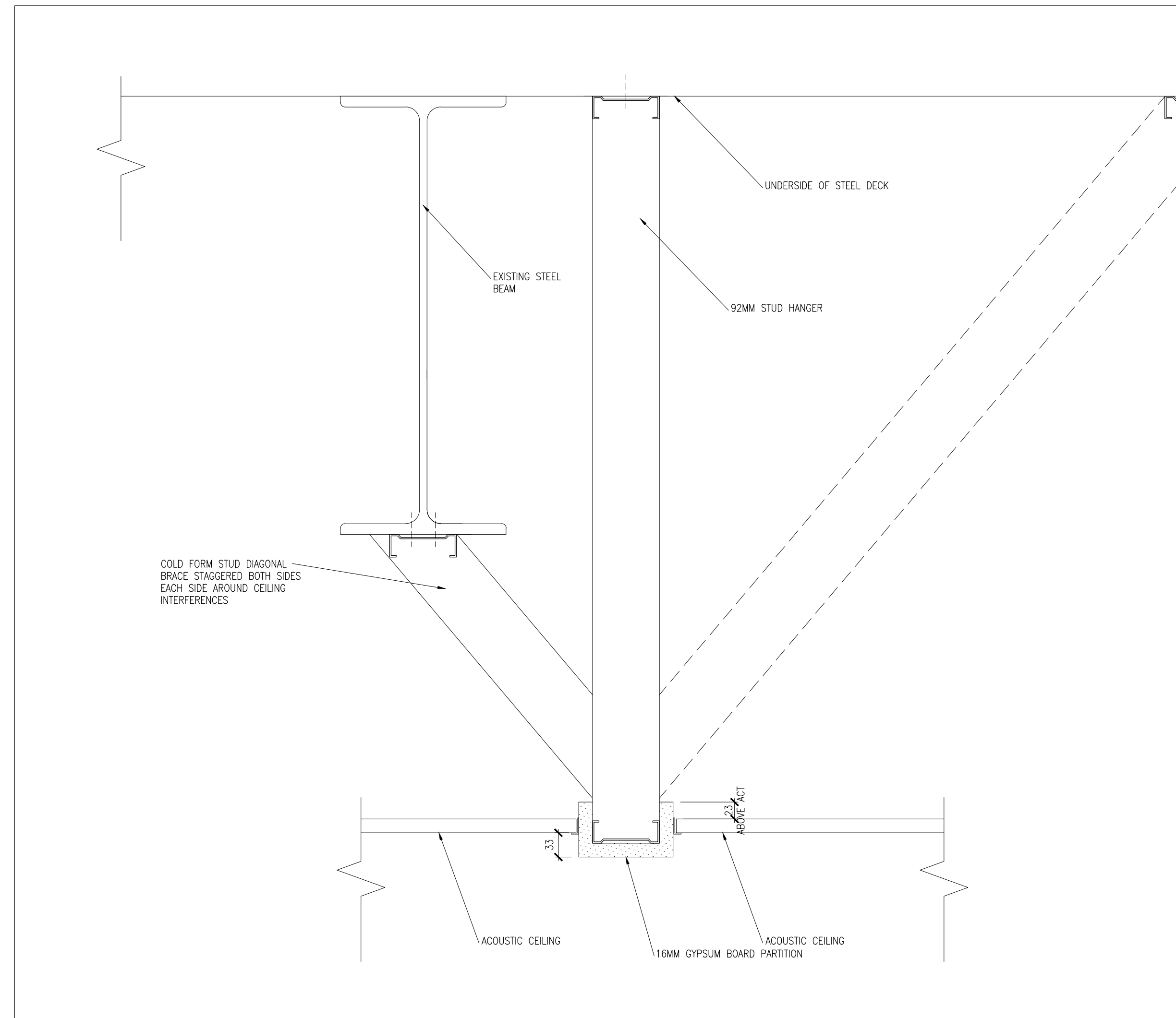
DESIGN BY: BBA	DOC. CONTROL: DATE:
DRAWN BY: JM	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: SEPTEMBER 2023	
SCALE: AS NOTED	
FILE:	

PROJECT NO: **23091** DRAWING NO: **A202**

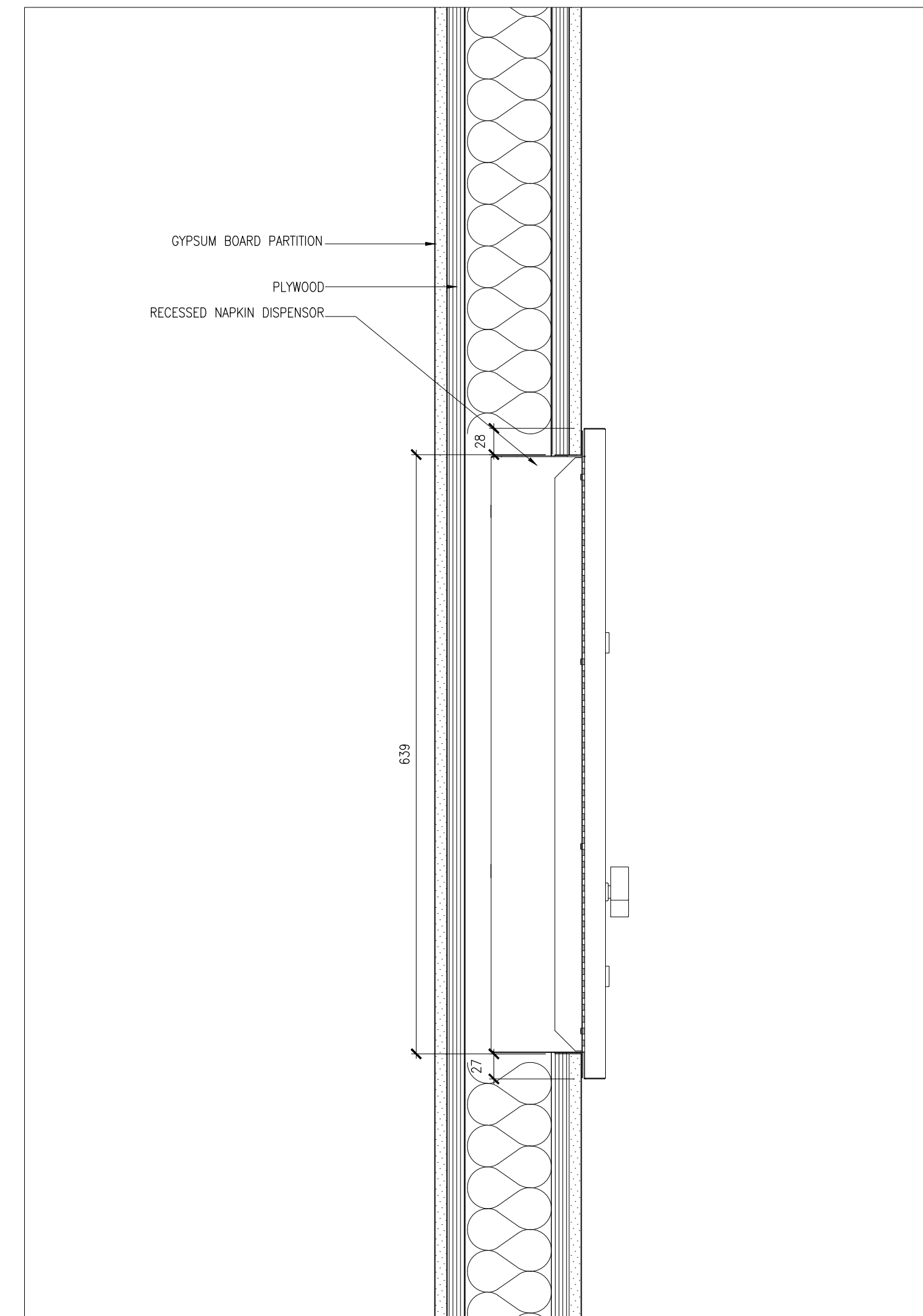
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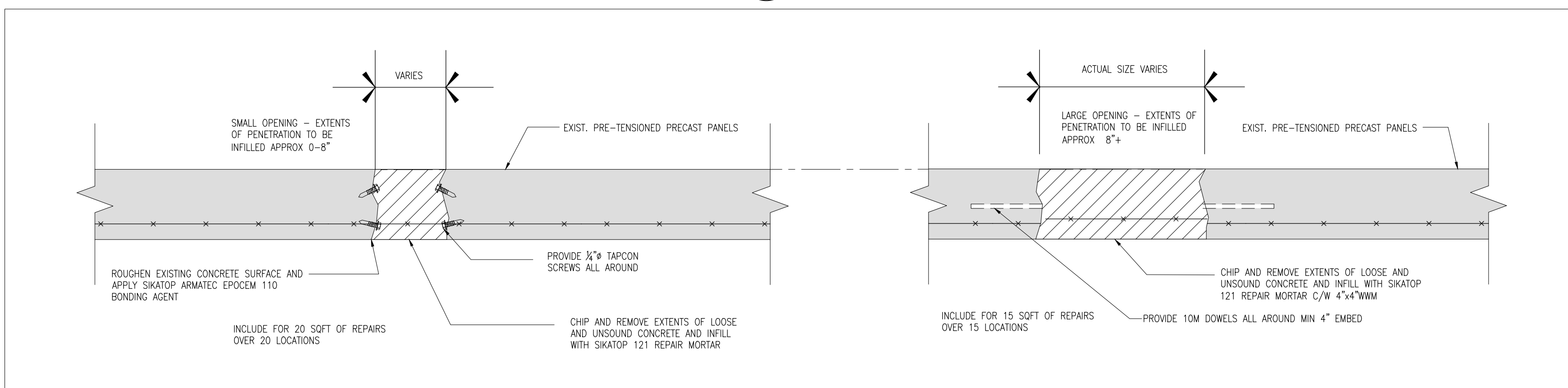
NO.	ISSUES	DATE	BY
1	ISSUED FOR 30% REVIEW	AUG. 01 2023	BBA
2	REISSUED FOR 30% REVIEW	DEC. 01 2023	BBA
3	ISSUED FOR 75% REVIEW	JAN. 12 2024	BBA
4	ISSUED FOR PERMIT AND TENDER	FEB. 01 2024	BBA
5	ISSUED FOR CONSTRUCTION	MAR. 18 2024	BBA



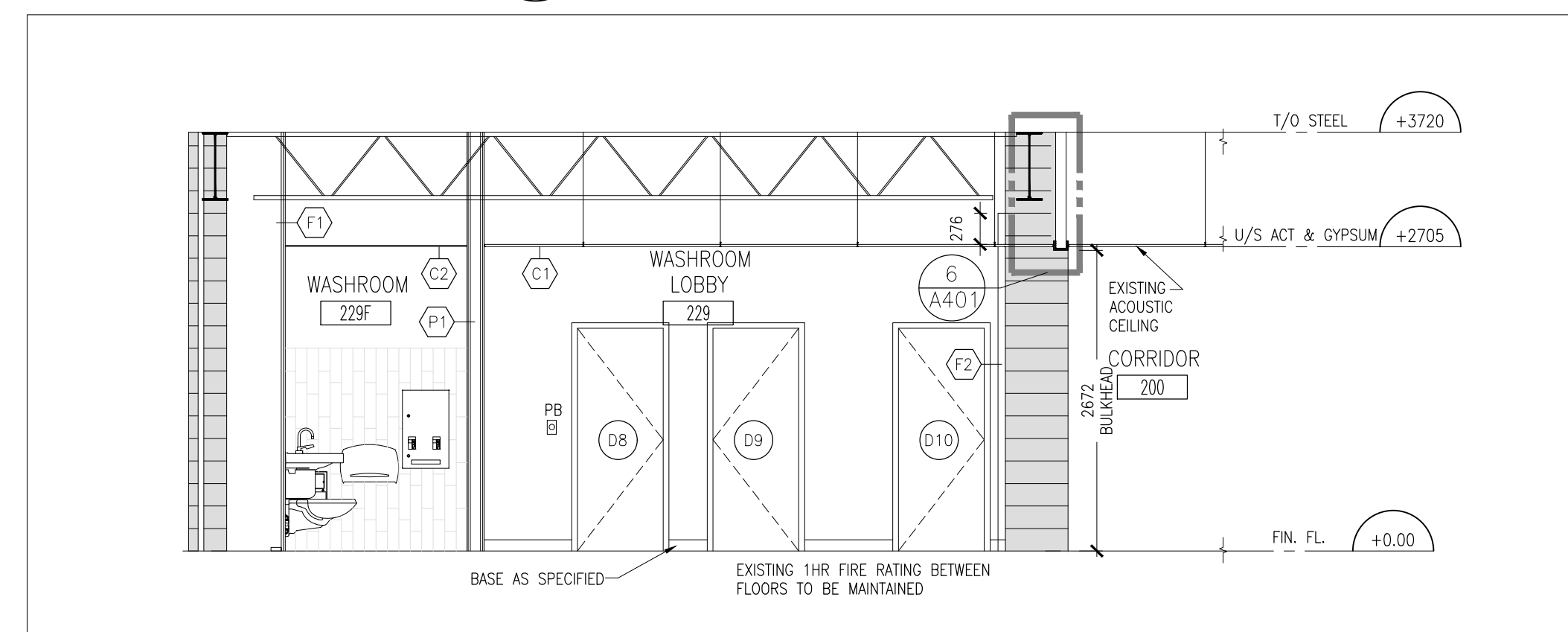
6 A401 HEADER SECTION 1:5



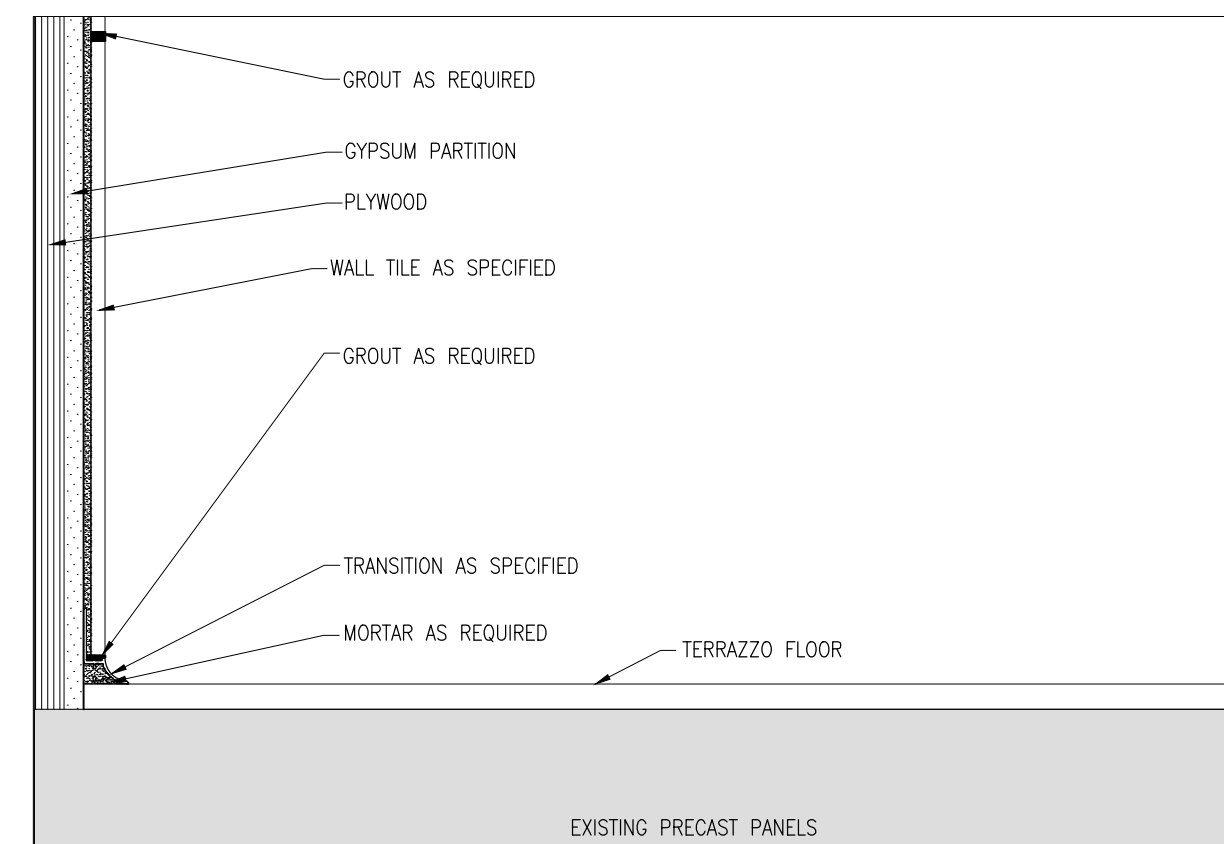
3 A401 NAPKIN DISPENSER SECTION 1:5



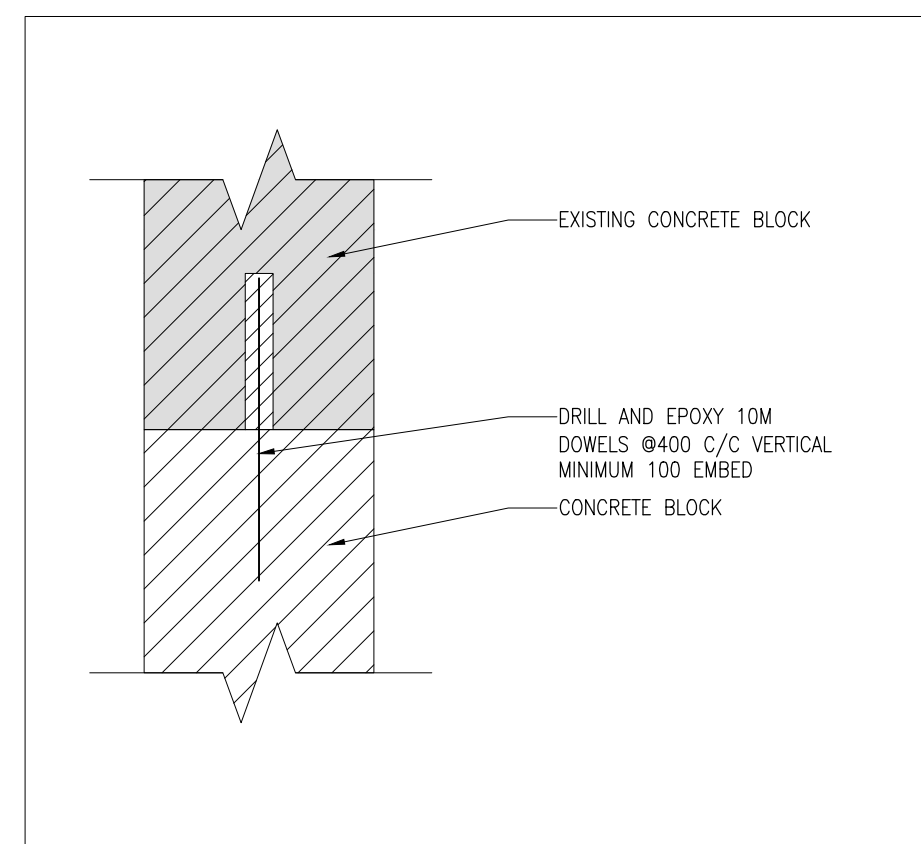
6 A401 TYPICAL SLAB DETAIL 1:50



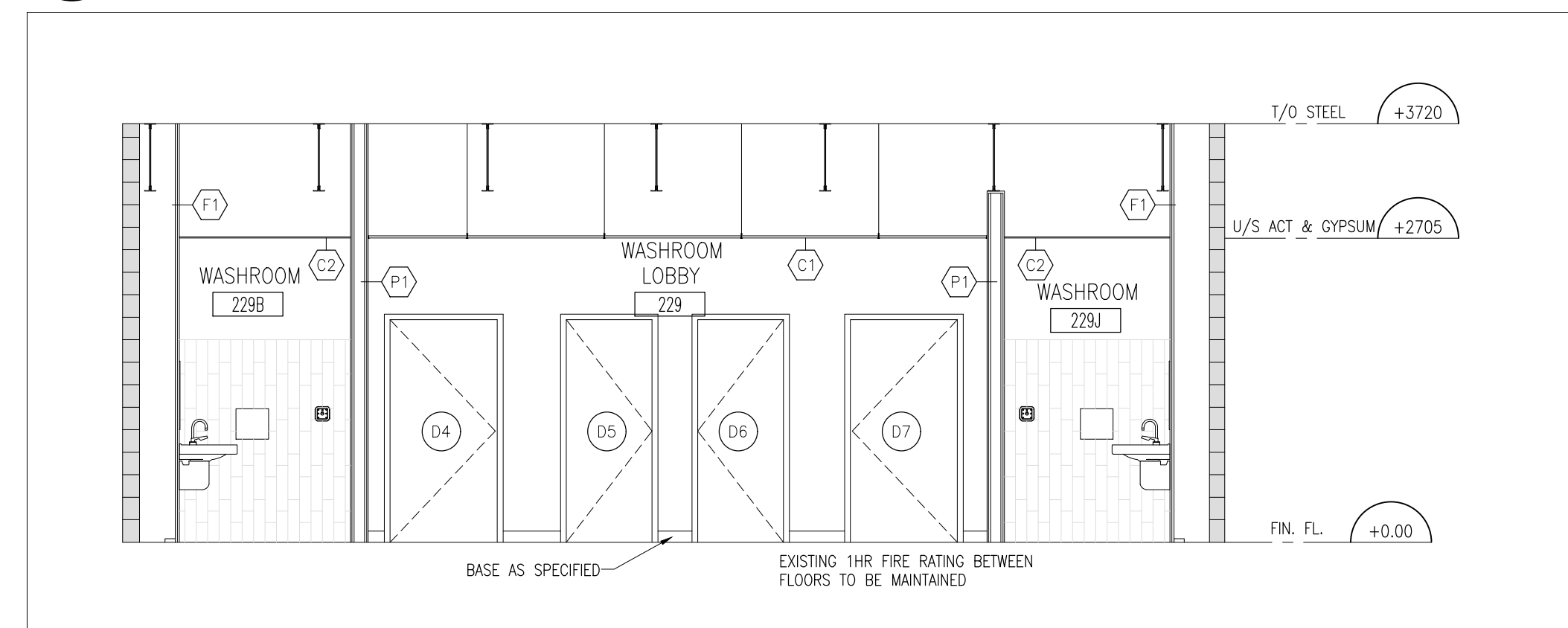
2 A401 SECTION 1:50



5 A401 WALL TILE TO TERRAZZO DETAIL (TYP) 1:5



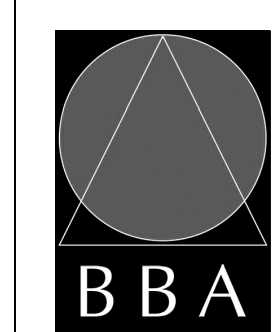
4 A401 PLAN DETAIL 1:5



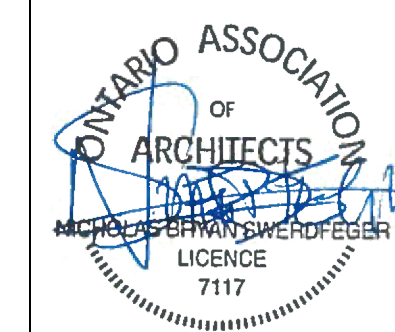
1 A401 SECTION 1:50

PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
SECTIONS & DETAILS

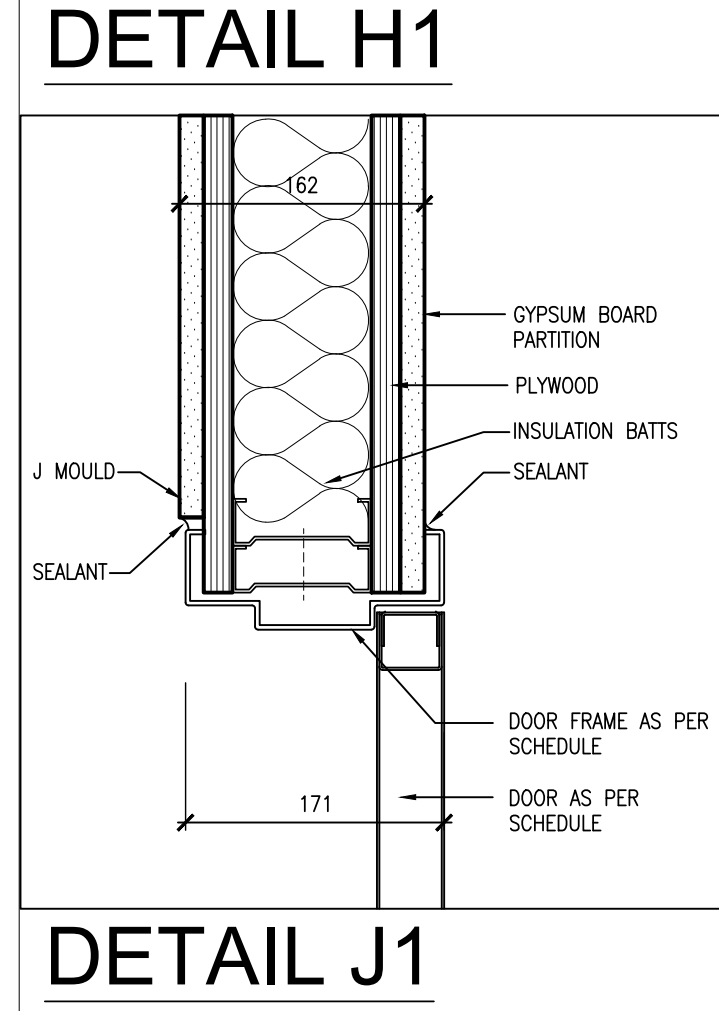
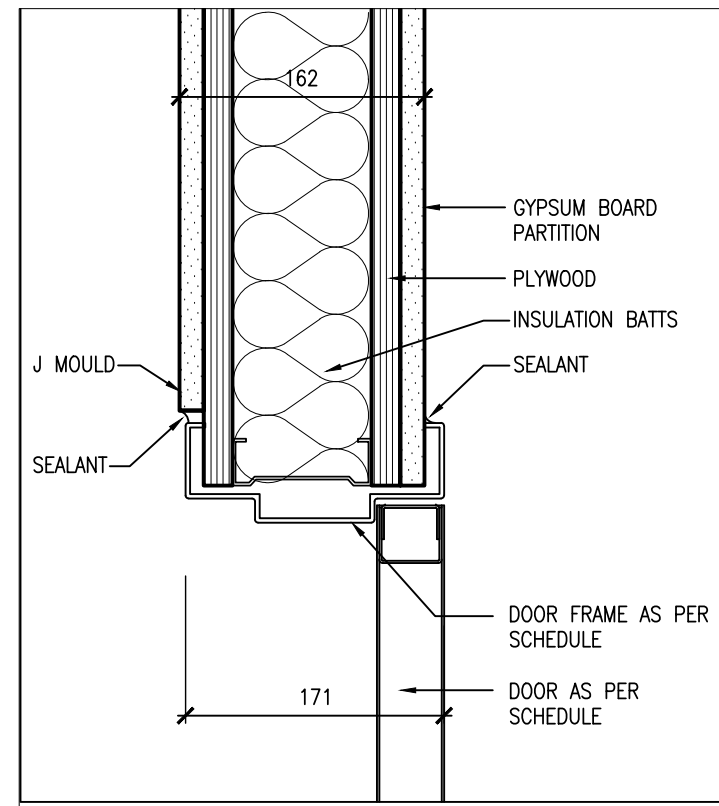


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CHECKED BY: INITIAL
SCALE: AS NOTED
FILE:

PROJECT NO: **23091**
DRAWING NO: **A401**

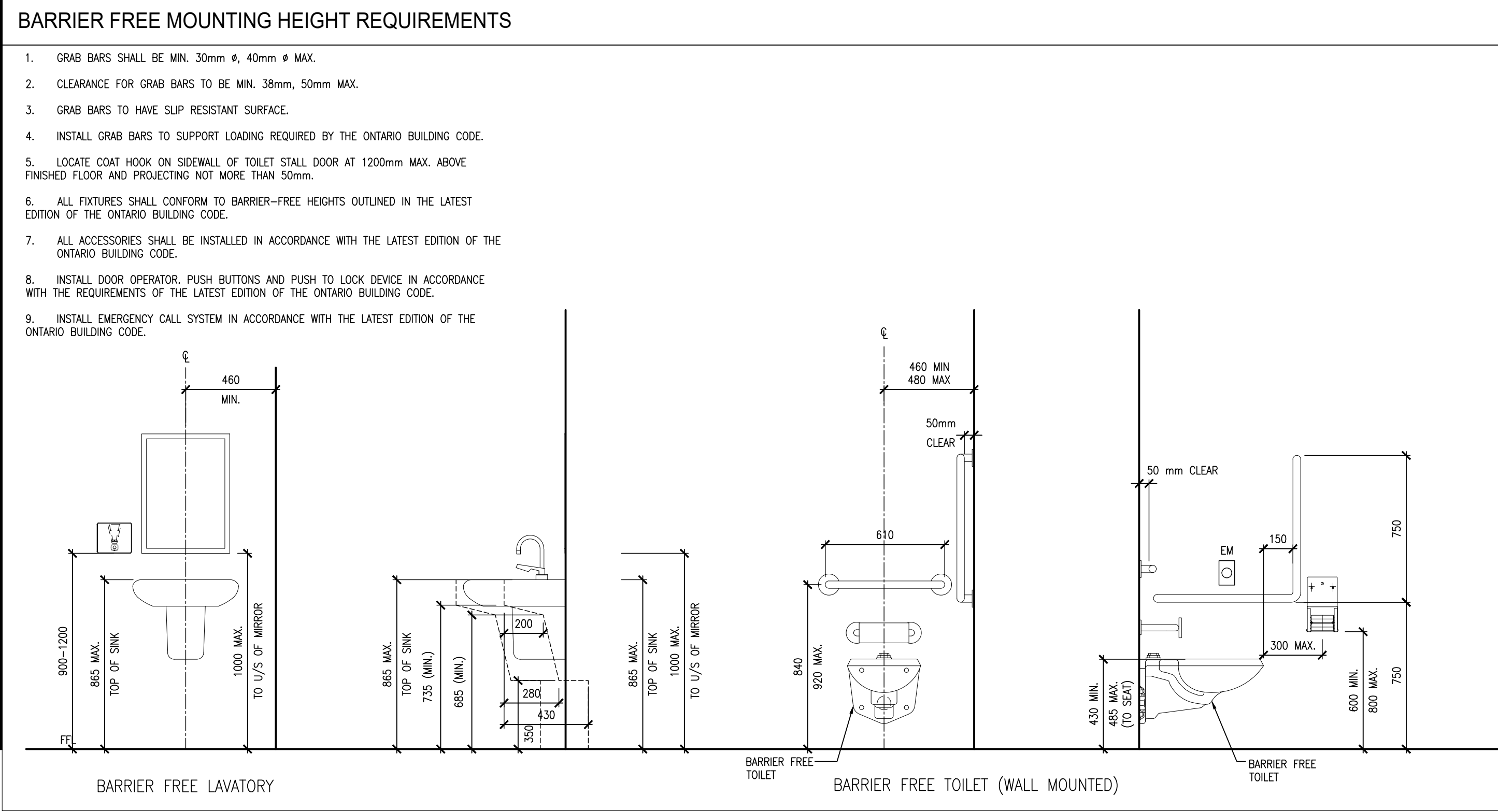


ABBREVIATION LEGEND		GENERAL NOTES	
ACT	ACOUSTIC CEILING TILE	1.	PREPARE DOORS AND FRAMES FOR ELECTRONIC HARDWARE WHERE INDICATED. CONDUITS SHALL BE CONCEALED IN FRAMES.
CT	CERAMIC TILE		
EX	EXISTING	2.	CONTRACTOR TO SITE VERIFY ALL DOOR SIZES PRIOR TO ORDERING.
GWB	GYPSON BOARD		
HM	HOLLOW METAL		
PT	PAINT		
PS	PRESSED STEEL		
TERR	TERRAZZO		
CB	CONCRETE BLOCK		
EM	EMERGENCY RESPONSE BUTTON		
EMR	EMERGENCY RESPONSE BUTTON ROUGH IN ONLY		

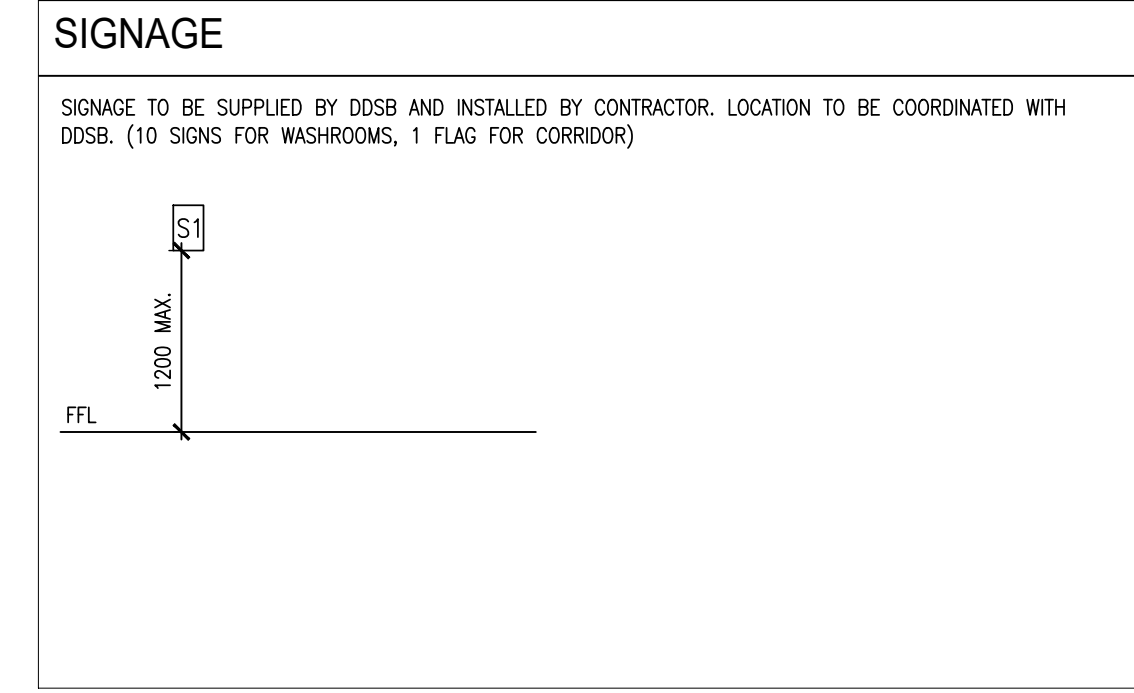
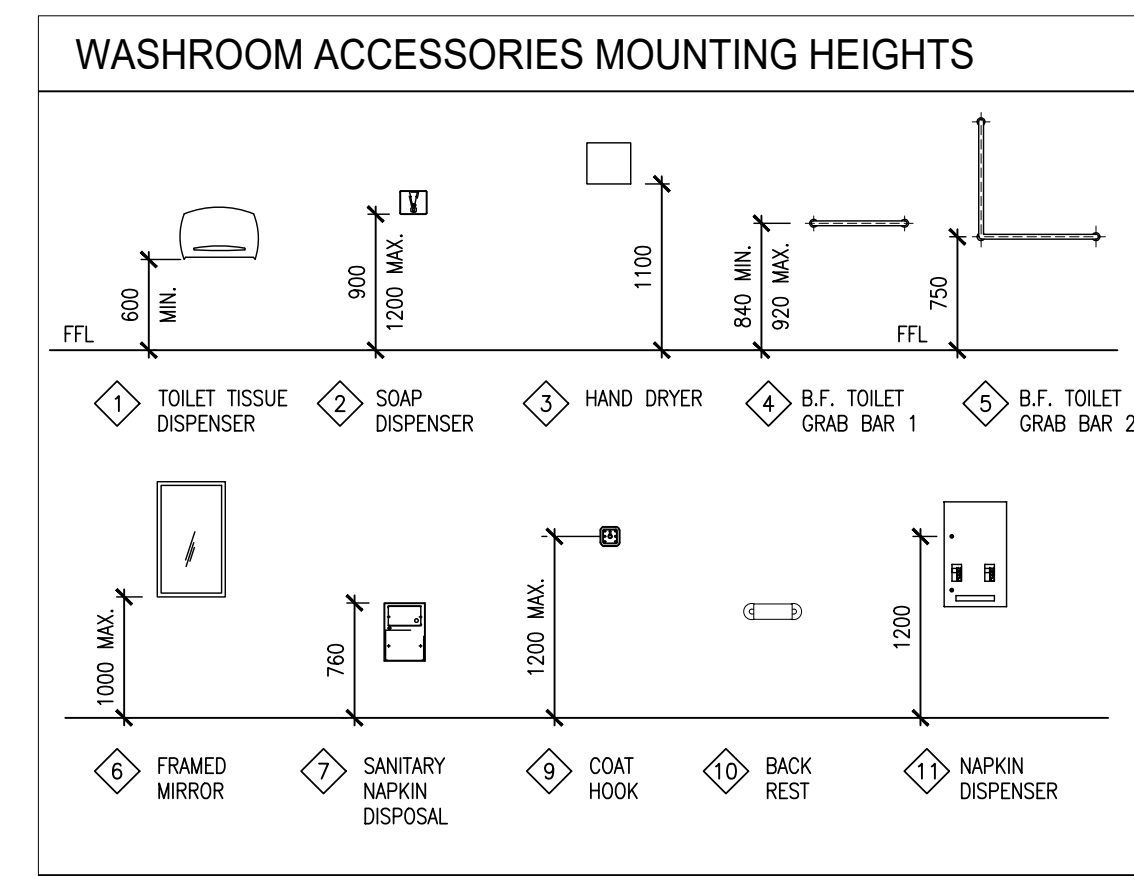


DOOR AND FRAME SCHEDULE																					
ROOM NAME	NO.	DOOR					FRAME					DOOR HARDWARE					REMARKS				
		SIZE AND THICKNESS	TYPE	MATERIAL	FINISH	GLASS	TYPE	HEAD	jamb	MATERIAL	FINISH	FIRE RATING	DOOR STOP	DOOR STOP	DOOR STOP	DOOR STOP		DOOR STOP	DOOR STOP	DOOR STOP	
CORRIDOR																					
WASHROOM LOBBY																					
WASHROOM	D1	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3									DOOR TO BE UNDERCUT 12MM	
WASHROOM	D2	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D3	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
BARRIER-FREE WASHROOM	D4	965x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D5	762x2150x45	M	HM	PT2		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D6	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
BARRIER-FREE WASHROOM	D7	965x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D8	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D9	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM
WASHROOM	D10	762x2150x45	M	HM	PT3		F1	H1	J1	PS	PT3										DOOR TO BE UNDERCUT 12MM

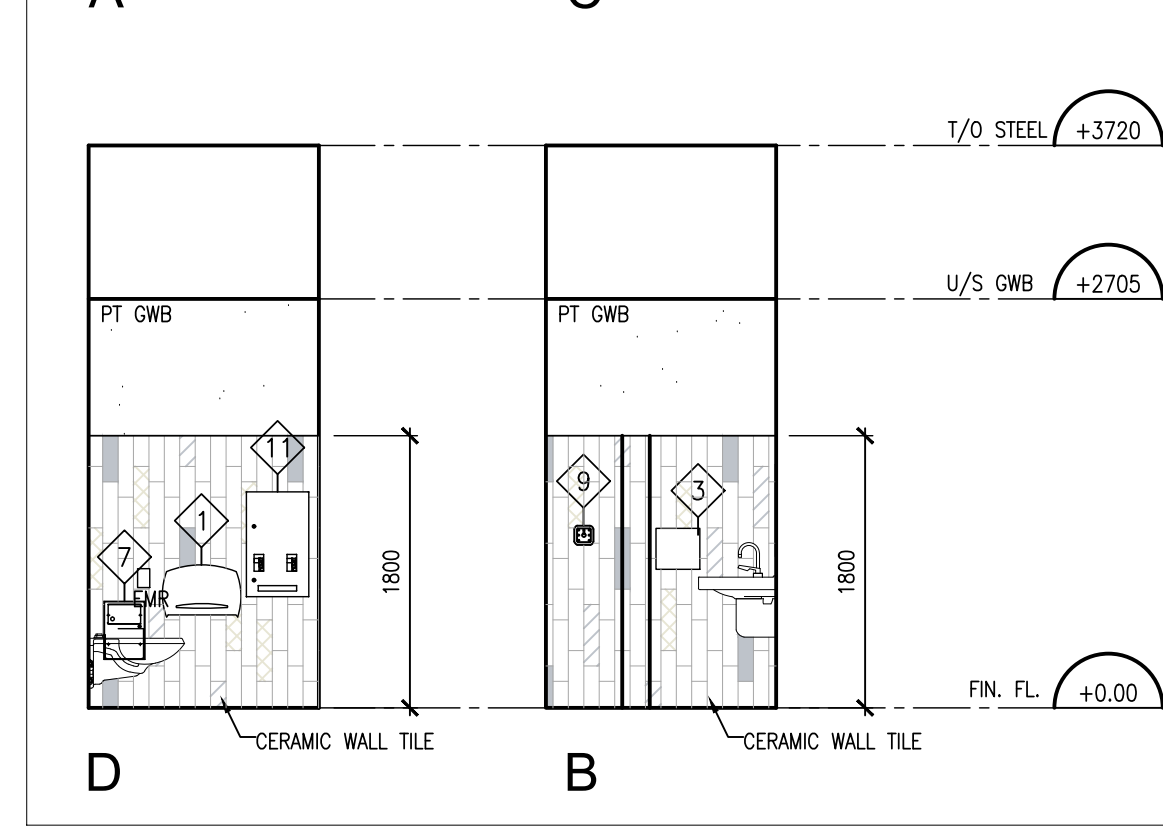
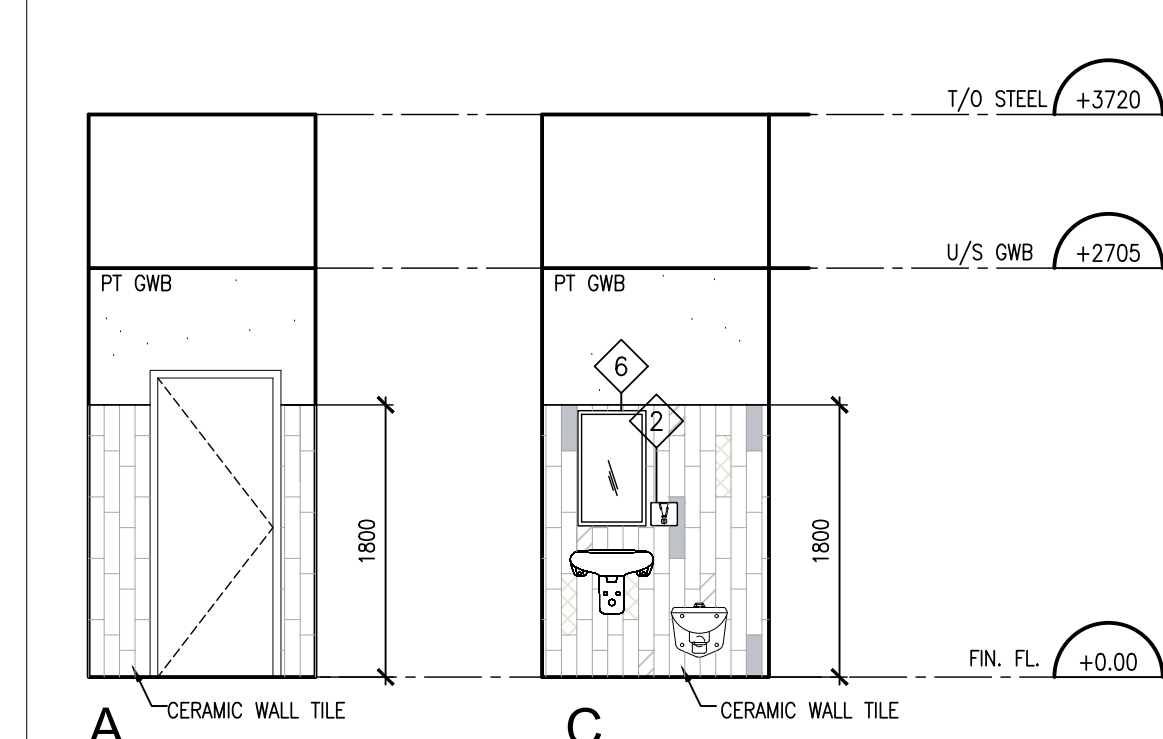
ROOM SCHEDULE											
ROOM NO.	ROOM NAME	FLOOR	BASE	NORTH	EAST	SOUTH	WEST	CEILING	CEILING HEIGHT	REV.	REMARKS
200	CORRIDOR		CONC		CB			ACT	2705		TERRAZZO PATCH AND REPAIR IS TO BE FROM GRID LINE TO GRID. TERRAZZO BASE TO MATCH EXISTING TERRAZZO BASE.
229	WASHROOM LOBBY		CONC		GWB		GWB	ACT	2705		TERRAZZO PATCH AND REPAIR IS TO BE FROM GRID LINE TO GRID. AREA INCLUDES AREA OF ALL NEW TERRAZZO REFER TO PLANS C12 TO BE BULLNOSE REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229A	WASHROOM		CONC		GWB		GWB	ACT	2705		TERRAZZO PATCH AND REPAIR IS TO BE FROM GRID LINE TO GRID. AREA INCLUDES AREA OF ALL NEW TERRAZZO REFER TO PLANS C12 TO BE BULLNOSE REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229B	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229C	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229D	BARRIER-FREE WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229E	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229F	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229G	BARRIER-FREE WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229H	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229J	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15
229K	WASHROOM		CONC		GWB		GWB	ACT	2705		REFER TO ELEVATIONS FOR WALL TILE PATTERN CT1, CT3, C14, C15



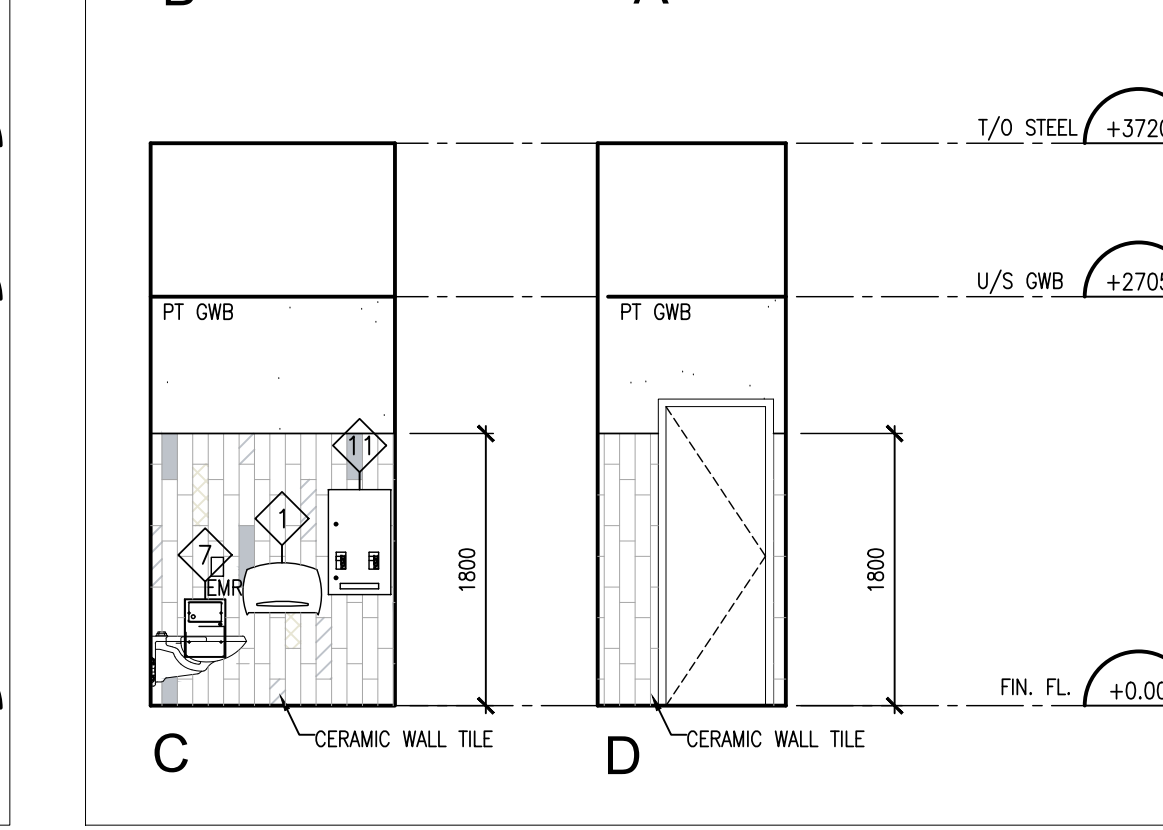
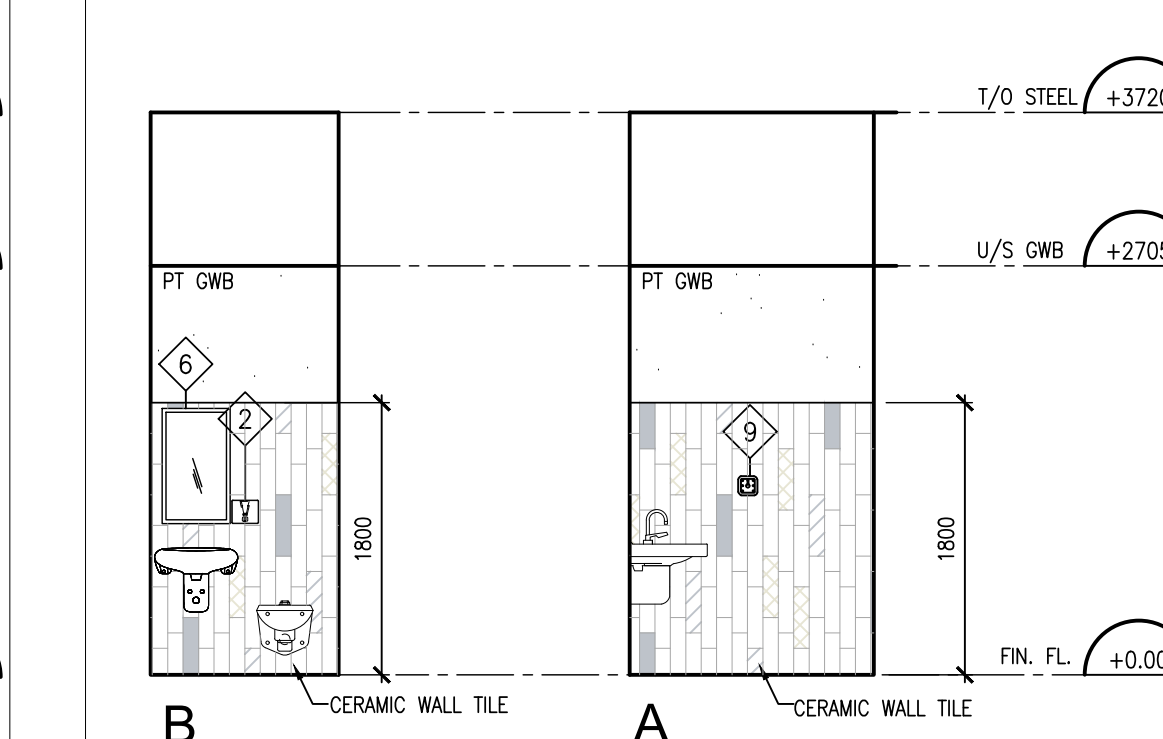
2 A701 1:20 BARRIER FREE MOUNTING HEIGHT REQUIREMENTS



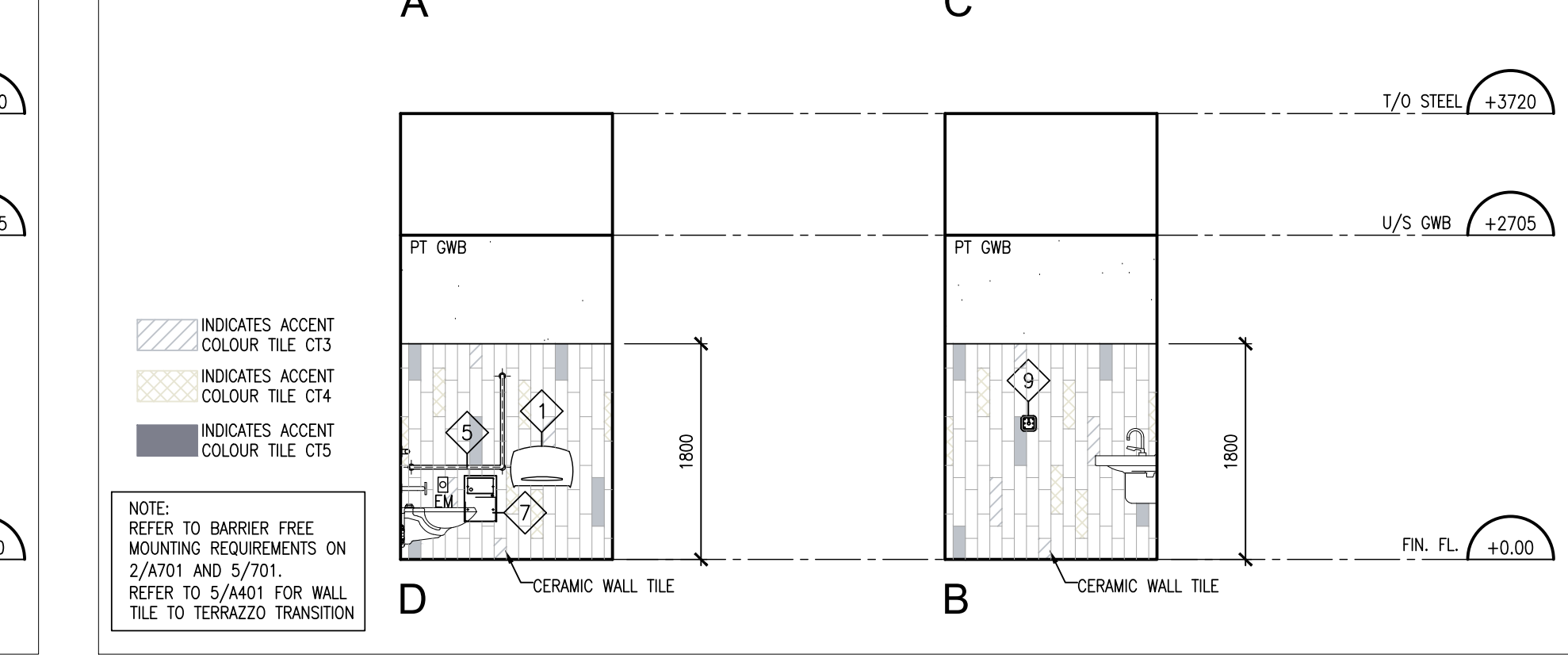
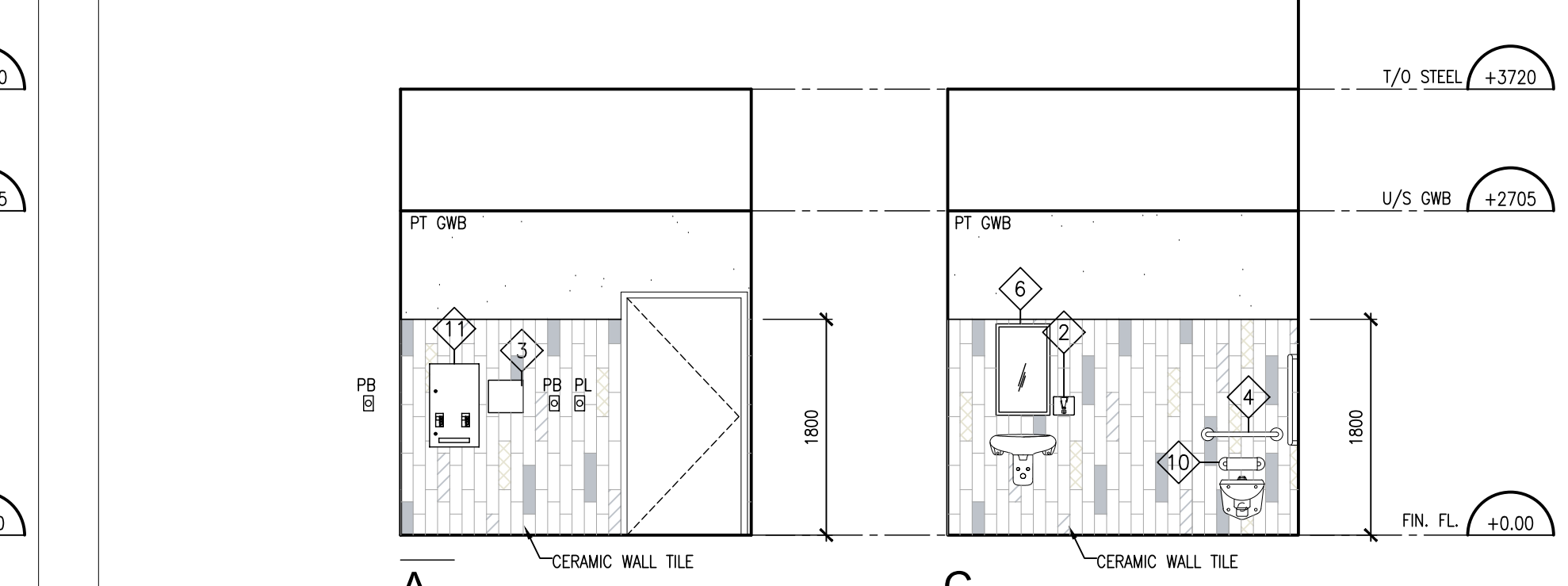
5 A701 1:50 ACCESSORIES & SIGNAGE MOUNT HEIGHTS



4 A701 1:50 ELEVATIONS



3 A701 1:50 ELEVATIONS



1 A701 1:50 ELEVATIONS BARRIER-FREE WASHROOM 229C & 229F

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1	ISSUED FOR 30% REVIEW	AUG. 01 2023	BBA
2	REISSUED FOR 30% REVIEW	DEC. 01 2023	BBA
3	ISSUED FOR 75% REVIEW	JAN. 12 2024	BBA
4	ISSUED FOR PERMIT AND TENDER	FEB. 01 2024	BBA
5	ISSUED FOR CONSTRUCTION	MAR. 18 2024	BBA

NO.	REVISIONS	DATE	BY
1	ISSUED FOR ADDENDUM	FEB. 13 2024	BBA

PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

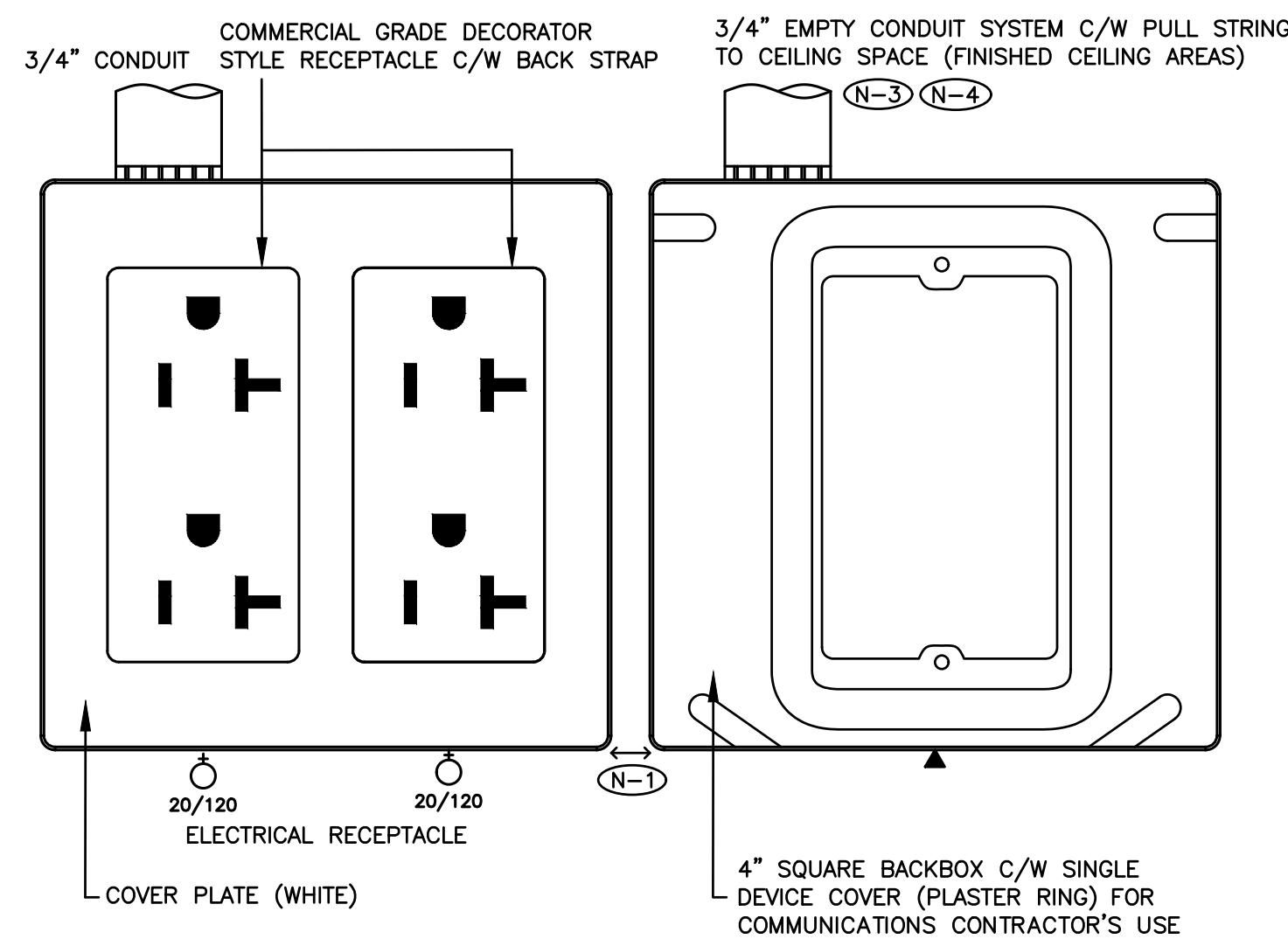
DRAWING:
ELEVATIONS & SCHEDULES



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CHECKED BY: [Signature]
DATE: SEPTEMBER 2023
SCALE: AS NOTED
FILE:

PROJECT NO: **23091**
DRAWING NO: **A701**

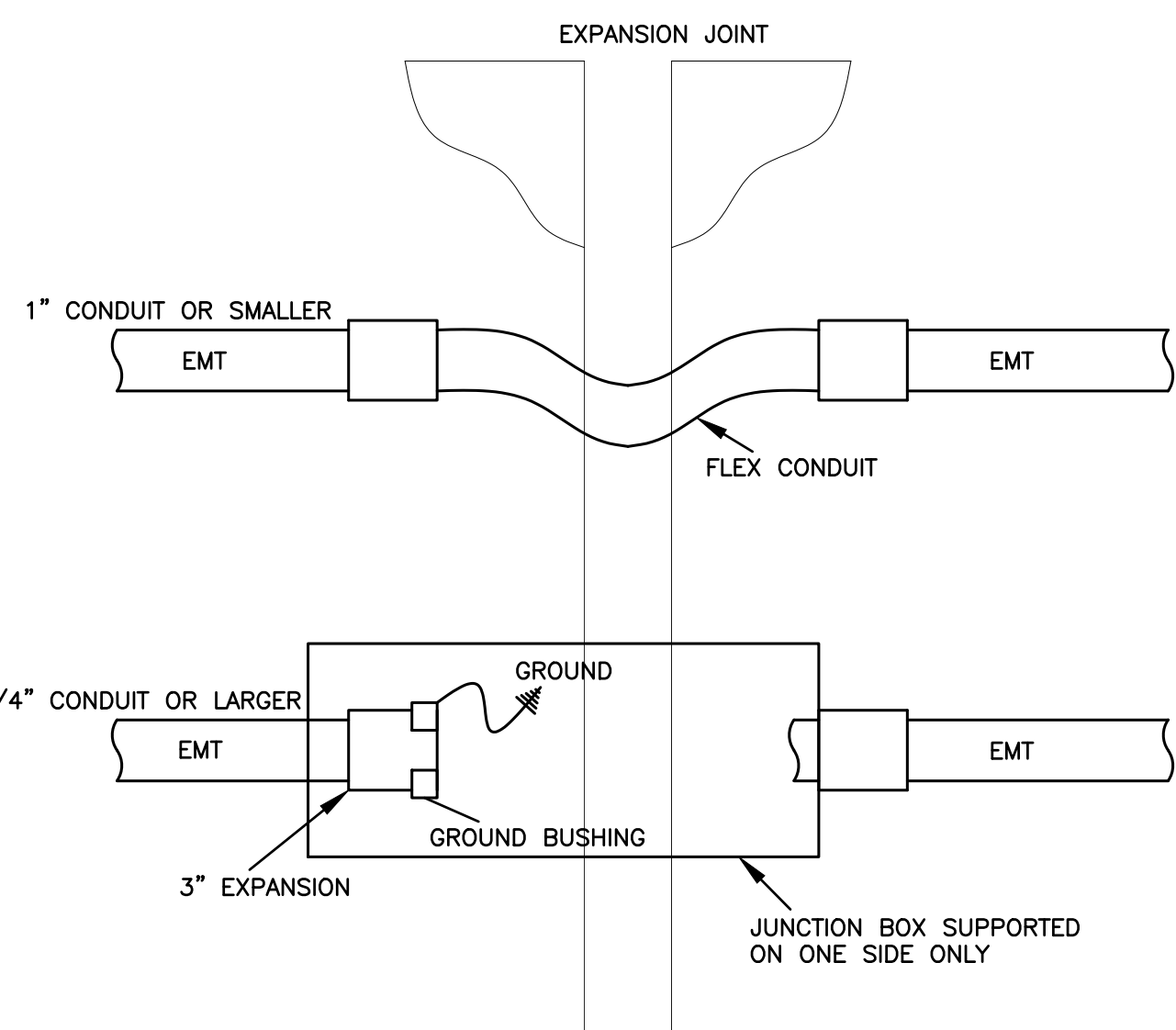


MOUNT RECEPTACLES
GROUND PIN UP

- (N-1) MINIMUM CLEARANCE.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) PROVIDE PUNCH OUTS IN BACKBOX TO ACCOMMODATE CONDUITS INDICATED.
- (N-4) TERMINATE CONDUIT WITH A 90 DEGREE BEND AND PLASTIC BUSHING IN THE ACCESSIBLE CEILING SPACE.

UTILITY COT - WHITE RECEPTACLE (WALLS)/BLACK RECEPTACLE (DARK MILLWORK)
UPS COT - BLUE RECEPTACLE

1 TYPICAL WALL MOUNTED DEVICE DETAIL
SCALE: NTS



2 EXPANSION JOINT CROSSING DETAIL
SCALE: NTS

LEGEND

- EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO UTILITY LIGHTING CIRCUIT.
- CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO SWITCHED BASE BUILDING UTILITY LIGHTING CIRCUIT.
- CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO NON-SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT.
- RECESSED/PENDENT DOWNLIGHT. CONNECT TO SWITCHED BASE BUILDING UTILITY LIGHTING CIRCUIT.
- EMERGENCY BATTERY UNIT, TYPE 'D1', SOURCE 'M1'. BATTERY SHALL BE MOUNTED AT HIGH LEVEL.
- REMOTE EMERGENCY LIGHTING FIXTURE, TYPE 'D2' FED FROM SOURCE 'M2'.
- CEILING OR WALL MOUNTED "EXIT" LIGHT.
- WHITE DECORA STYLE LIGHT SWITCH, WALL MOUNTED, VOLTAGE AND CURRENT RATINGS AS REQUIRED.
- WALL MOUNTED ROOM LIGHT SWITCH WATT STOPPER LMSW-10X. 'OV1' DENOTES ONE (1) DIGITAL PUSH BUTTON. 'OV2' DENOTES TWO (2) DIGITAL PUSH BUTTONS. 'OV3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OV4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.
- WALL MOUNTED AREA LIGHT SWITCH WATT STOPPER LMSW-10X. 'OW2' DENOTES TWO (2) DIGITAL PUSH BUTTONS. 'OW3' DENOTES THREE (3) DIGITAL PUSH BUTTONS. 'OW4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS. 'OW5' DENOTES FIVE (5) DIGITAL PUSH BUTTONS. 'OW6' DENOTES SIX (6) DIGITAL PUSH BUTTONS.
- 15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE. 'GFI' DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
- RECEPTACLE, REQUIREMENT AS NOTED.
- 20A/120V DUPLEX RECEPTACLE, CSA 5-20R (T-SLOT).
- DIRECT CONNECTION.
- STARTER.
- NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION
- VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
- CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
- EXISTING CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
- INDICATES EXISTING DEVICE TO REMAIN
- INDICATES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
- DENOTES EXISTING DEVICE TO REMAIN. RECIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE CONDUIT AND WIRE BACK TO NEW SOURCE.
- DENOTES CEILING MOUNTED FLUSH WITH FINISH CEILING
- 4" SQUARE BACKBOX C/W SINGLE DEVICE COVER (PLASTER RING) AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY FOR COMMUNICATIONS CONTRACTOR'S USE. PROVIDE A PULL STRING IN CONDUIT.
- SINGLE GANG BACKBOX AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY TO CEILING SPACE FOR FUTURE PUBLIC ADDRESS CALL-SWITCH. PROVIDE A PULL STRING IN CONDUIT. PROVIDE BLANK COVER PLATE.
- SMOKE DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- END OF LINE RESISTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM
- FIRE ALARM SYSTEM HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- FIRE ALARM SYSTEM COMBINATION STROBE LIGHT/HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- FIRE ALARM SYSTEM STROBE LIGHT. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- ROOM CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
- OPEN OFFICE AREA CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
- NON-SWITCHED CORRIDOR CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMDC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W AUTO ON AND AUTO OFF WALK THROUGH MODE ON AND DEFAULT SETTING.
- DIGITAL ON/OFF/DIMMING ROOM CONTROLLER WATT STOPPER LMRC-212/LMRC-212-347 (VOLTAGE RATING AS REQUIRED TO SUIT LIGHTING LOAD).
- ACCESSIBLE WAVE SENSOR ROUGH-IN C/W CONDUIT AND WIRES
- WALL/CEILING MOUNTED PUBLIC ADDRESS SYSTEM PAGING SPEAKER CONNECTED TO EXISTING PUBLIC ADDRESS SYSTEM. "CL" DENOTES CEILING MOUNTED. "FL" DENOTES RECESSED MOUNTED.
- WALL/CEILING MOUNTED PUBLIC ADDRESS SYSTEM CALL-SWITCH CONNECTED TO EXISTING PUBLIC ADDRESS SYSTEM.

1. SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
2. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, LIGHTING CONTROLS, ELECTRICAL DISTRIBUTION, RECEPTACLE PANELS, FIRE ALARM SYSTEM DEVICES, LAMACOID PLATES, RECEPTACLES AND COVER PLATES.
3. ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
4. CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
5. INSTALLATION AND MANUFACTURING OF ALL DEVICES AND SERVICES INCLUDING DISTRIBUTION, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC. MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
6. AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE FIRE ALARM MANUFACTURER, FIRE INSPECTOR AND BUILDING INSPECTOR TO THOROUGHLY REVIEW THE PROPOSED INSTALLATION LOCATIONS FOR EACH AND EVERY CONTROL PANEL, REMOTE ANNUNCIATOR PANEL, ANCILLARY DEVICE, FIELD DEVICE, ETC., TO ENSURE THAT THE PROPOSED INSTALLATION IS FULLY COMPLIANT WITH CAN/ULC S524:19 AND ONTARIO BUILDING CODE. COMPLIANCE SHALL INCLUDE INTERFERENCE AND PROXIMITY TO EXISTING DEVICES AND OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SUPPLY AIR DUCTS, EXPOSED DUCT WORK, BEAMS, RACEWAYS, ETC.), SPACING BETWEEN FIELD DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK IN PROPOSED INSTALLATION LOCATIONS, ETC..
7. AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE BUILDING INSPECTOR TO REVIEW THE PROPOSED EXIT SIGN ORIENTATION, LOCATIONS, FACES (READ OR PICTOGRAM) AND CHEVRONS.
8. AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
9. FIRE ALARM SYSTEM TESTING AND VERIFICATIONS MUST TAKE PLACE BETWEEN 11PM AND 5AM DURING THE WEEK.
10. AS BUILT DRAWING REQUIREMENTS: AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR.
 - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
 - ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, EMERGENCY LIGHTING, POWER, ETC), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC, TO BE SHOWN ON AS BUILT DRAWINGS.
 REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND FOR COSTS TO OBTAIN CAD FILES.
11. ALL SCOPES OF WORK REQUIRED TO BE COMPLETED IN OCCUPIED AREAS OF THE FACILITY INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 11PM AND 5AM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
12. REMOVAL AND REINSTALLATION OF CEILING TILES IN OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
13. ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED AND TYPEWRITTEN PANEL SCHEDULE DIRECTORIES MUST BE PROVIDED. SELF-ADHESIVE LABELING TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS. LAMACOIDIS MUST BE USED FOR LABELING OF ALL ELECTRICAL ENCLOSURES.
14. THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE TO THE FLOORS BELOW. AREAS PRONE TO WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE LANDLORD WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION.
15. PROVIDE A REPORT FROM THE MANUFACTURER FOR ALL FIRESTOP ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT MUST DETAIL COMPLIANCE WITH ONTARIO BUILDING CODE.
16. PROVIDE A DEDICATED NEUTRAL PER PHASE FOR ALL BRANCH CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. DO NOT SHARE NEUTRALS.

DRAWING LIST

- E-1.1 - ELECTRICAL LEGEND AND DETAILS
- E-1.2 - ELECTRICAL DETAILS
- E-1.3 - ELECTRICAL DETAILS
- E-2.1 - ELECTRICAL PLAN - GROUND FLOOR
- E-2.2 - ELECTRICAL PLAN - SECOND FLOOR
- E-3.2 - REFLECTED CEILING PLAN - SECOND FLOOR
- E-5.2 - ELECTRICAL DEMOLITION PLAN - SECOND FLOOR
- E-6.2 - REFLECTED CEILING DEMOLITION PLAN - SECOND FLOOR

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NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ
4.	ISSUED FOR CONSTRUCTION	MAR18/24	KZ



NO.	REVISIONS	DATE	BY

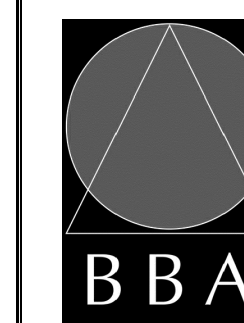
HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M4P 3K2
Tel: (416) 932-2423

PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

ELECTRICAL LEGEND AND DETAILS



BARRY BRYAN ASSOCIATES

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L1N 0G5
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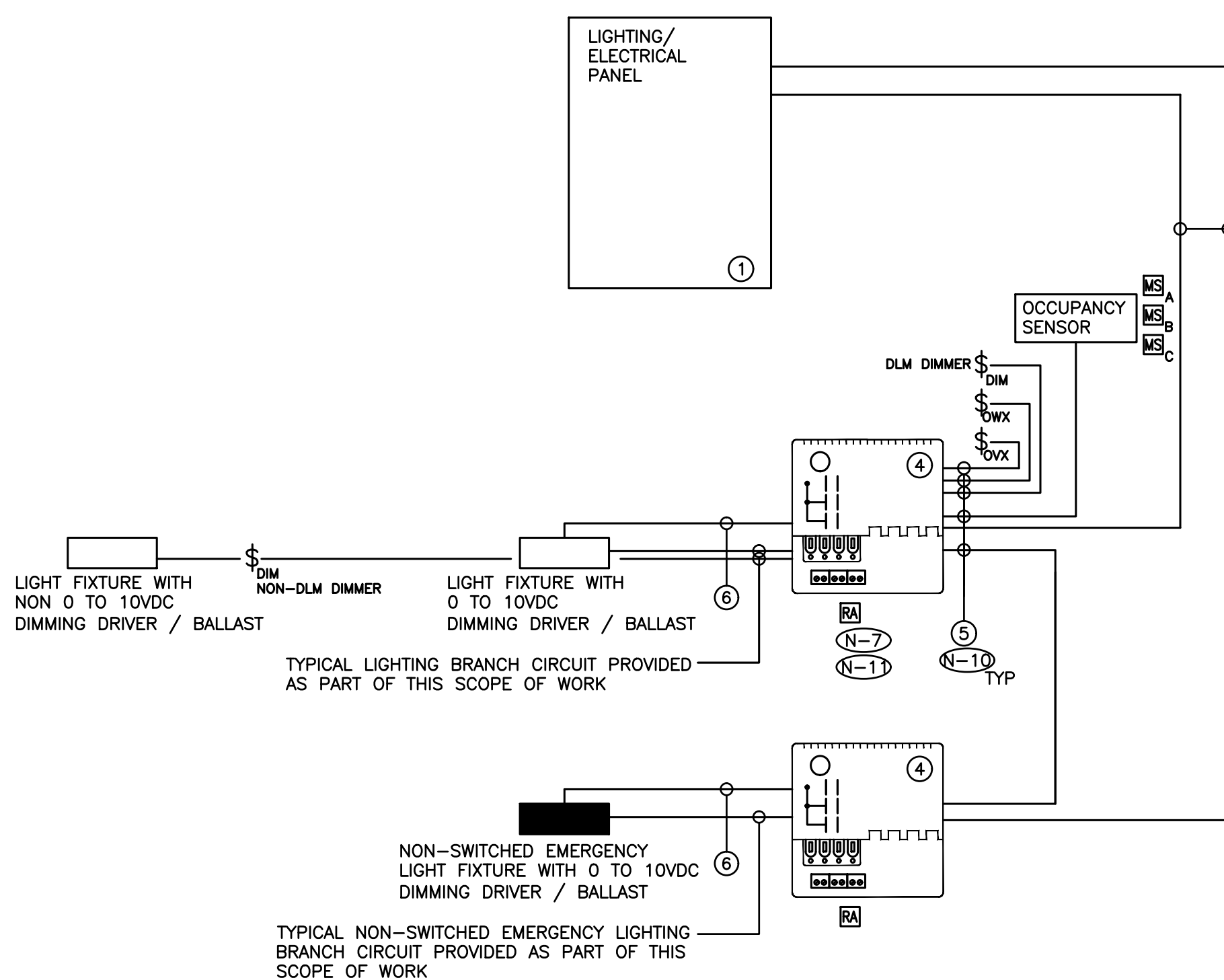
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DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	DATE: SEPTEMBER 2023
SCALE: AS SHOWN	FILE:

PROJECT NO:

23105

DRAWING NO:

E-1.1



1 LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC
E-1.2 SCALE: NTS

- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE, ZONE CONTROLLERS, ROOM CONTROLLERS, PLUG LOAD CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- (N-2) NOT USED.
- (N-3) LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS/AREAS/CORRIDORS/ ETC., WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.
- AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPE OF WORK AREAS WITH A CALIBRATED LIGHT METER, AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.
- (N-4) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-5) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE, OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.
- (N-8) NOT USED.
- (N-9) ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK IN EXPOSED CEILING AREAS MUST BE INSTALLED WITHIN WALL MOUNTED VENTILATED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK. TYPICAL MOUNTING HEIGHT Ø10' AFF. COORDINATE EXACT MOUNTING HEIGHT FOR EACH ROOM / AREA ON SITE WITH CONSULTANT.
- (N-10) TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-11) REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.
- (N-12) PROVIDE POWER PACKS, AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.
- (N-13) ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOUR (4) HOURS OF ON SITE COORDINATION TIME WITH WATTSTOPPER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

- 1 TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DETAIL NO. 3 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS
- 2 NOT USED
- 3 NOT USED
- 4 ON / OFF / DIMMING ROOM CONTROLLER
- 5 PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY WATT STOPPER
- 6 0 TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR.
 - - - - - DENOTES EXISTING TO REMAIN.
 * - * - * - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR.

INSTALL LOW VOLTAGE CONTROL SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS, ASHRAE 90.1 2016, ONTARIO BUILDING CODE, ELECTRICAL SAFETY CODE AND THESE DOCUMENTS.

DO NOT SCALE THE DRAWINGS.
 CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
 ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.
 DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



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3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ
4.	ISSUED FOR CONSTRUCTION	MAR18/24	KZ

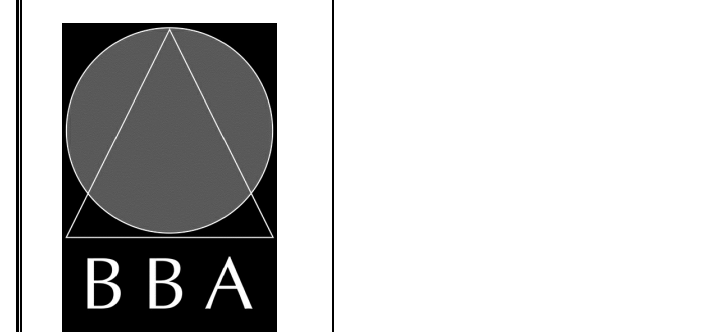


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HCC ENGINEERING
 DESIGN AND TECHNOLOGY SERVICES GROUP
 HCC ENGINEERING LIMITED
 40 EGLINTON AVENUE EAST, SUITE 600
 TORONTO, ONTARIO, M4P 3K2
 Tel: (416) 932-2423

PROJECT:
WASHROOM RENOVATION
 PORT PERRY HIGH SCHOOL
 160 ROSA STREET
 PORT PERRY, ON, L9L 1L7
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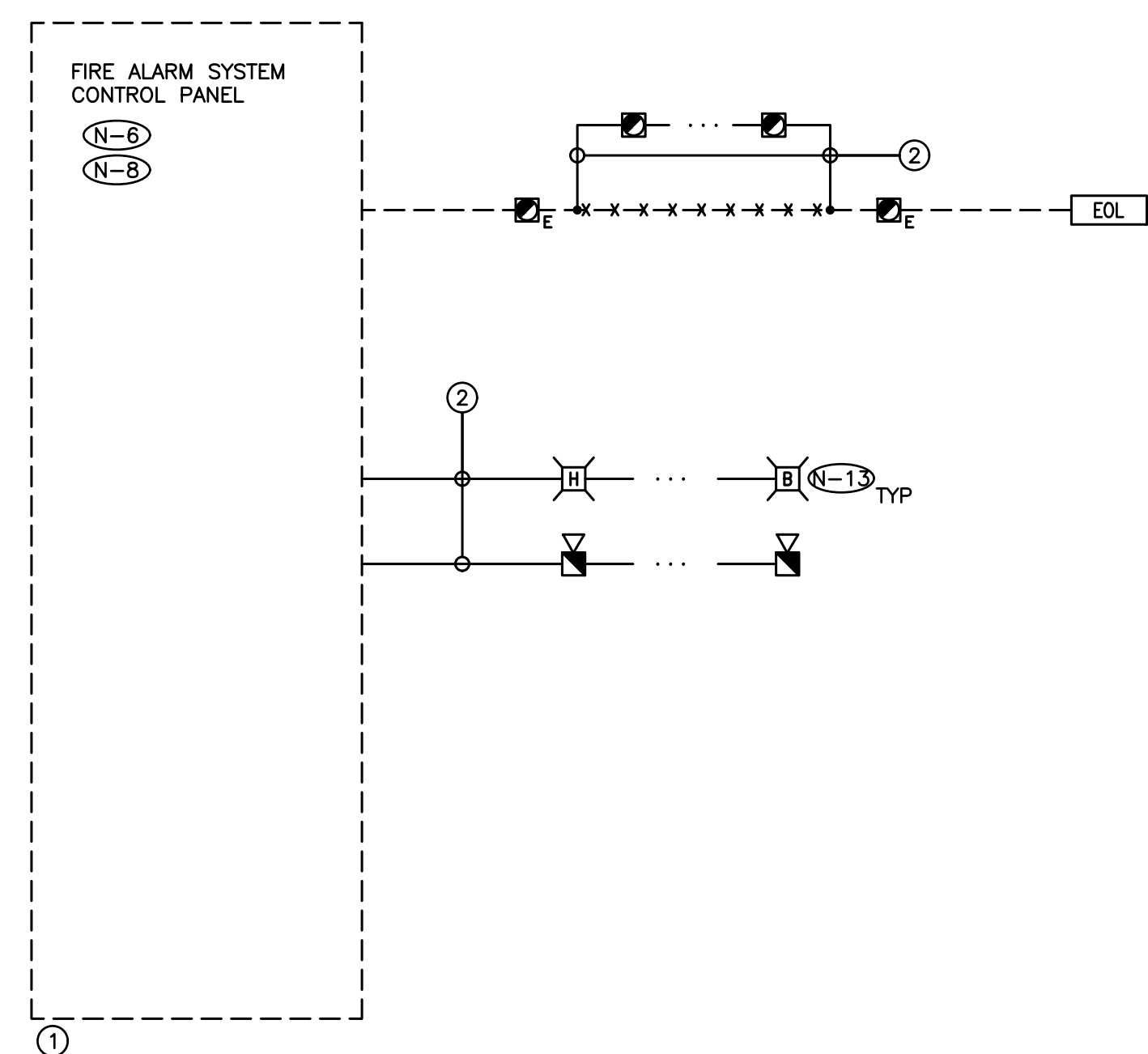
DRAWING:
ELECTRICAL DETAILS



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DESIGN BY: KZ
 CHECKED BY: HDC
 DATE: SEPTEMBER 2023
 SCALE: AS SHOWN
 FILE:

PROJECT NO: **23105**
 DRAWING NO: **E-1.2**

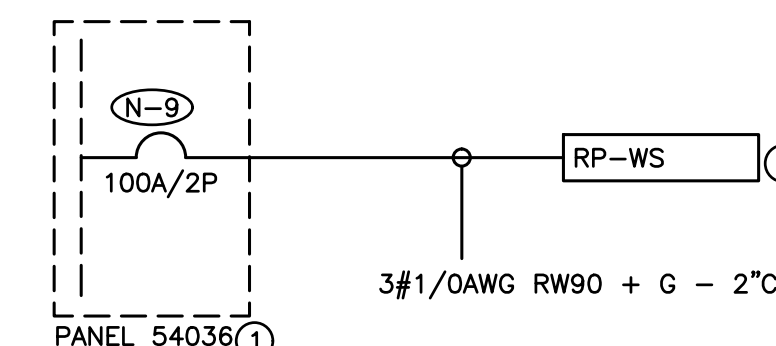


- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF STROBE LIGHT CIRCUITS, SPEAKER CIRCUITS, SPEAKER ZONES, INITIATING DEVICE CIRCUITS, HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, ETC. TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.
- (N-2) REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE, WIRE GUARD, EXPLOSION PROOF DEVICES, WEATHER PROOF DEVICES, ETC)
- (N-3) PROVIDE POWER, MI CABLE, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) PROVIDE DEDICATED CORE DRILLED FLOOR AND WALL PENETRATIONS ON EVERY FLOOR AS REQUIRED FOR FIRE ALARM SYSTEM CONDUITS/MI CABLE. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAYING RESULTS.
- (N-5) NOT USED.
- (N-6) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL/TRANSPONDER AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATIONS.
- (N-7) NOT USED.
- (N-8) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL/TRANSPONDER AS REQUIRED TO SUPPORT THE TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT.
- (N-9) PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.
- (N-10) NOT USED.
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH THROUGHOUT THE DURATION OF THE PROJECT.
- (N-12) DO NOT REUSE EXISTING FIELD WIRING AND CONDUIT, FIRE ALARM DEVICES, ETC., REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-13) PROVIDE STROBE CIRCUIT SYNCHRONIZATION MODULES.

- 1 EXISTING FIRE ALARM SYSTEM CONTROL PANEL - SIMPLEX 4100ES
- 2 CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * - * - * - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

2 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM
E-1.2 SCALE: NTS



- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2 ENCLOSURE, UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-5) NOT USED.
- (N-6) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-7) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-8) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- (N-9) PROVIDE NEW BREAKER INDICATED. PROVIDE MOUNTING HARDWARE TO ACCOMMODATE EXISTING PANEL BUS. PROVIDE LUGS TO ACCOMMODATE WIRE SIZE INDICATED. PROVIDE THE SERVICE OF SCHNEIDER ELECTRIC TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK.

- 1 EXISTING RECEPTACLE PANEL - 120/240V/1PH/3W/225A MAINS/30 CCT/SQ D NQ/10KA RMS
- 2 RECEPTACLE PANEL - 120/240V/1PH/3W/100A MCB/42 CCT/SQ D NQ/10KA RMS/RECESSED TRIM FACTORY PAINTED CUSTOM COLOUR (MATCH TO PAINT CHIP TO BE PROVIDED BY ARCHITECT DURING CONSTRUCTION)

————— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * - * - * - * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

3 PARTIAL BASE BUILDING FIRE ALARM SYSTEM RISER DIAGRAM
E-1.2 SCALE: NTS

DO NOT SCALE THE DRAWINGS.
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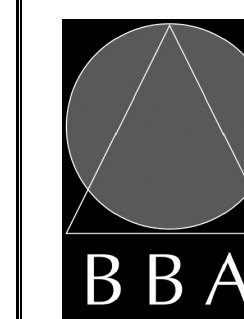


NO.	REVISIONS	DATE	BY



PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
ELECTRICAL DETAILS

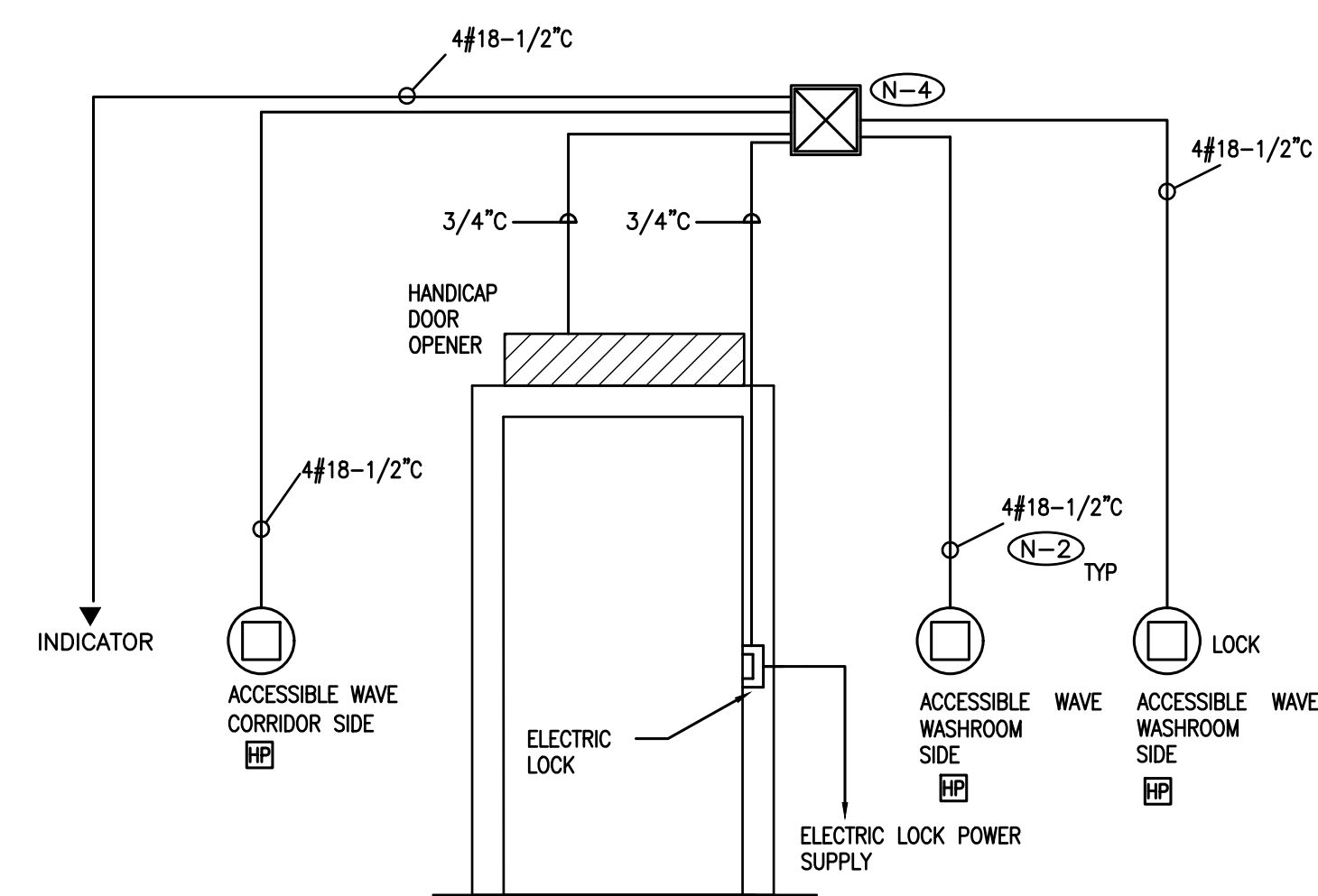


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DESIGN BY: KZ	DOC CONTROL DATE:
DRAWN BY: KZ	% COMPLETE:
CHECKED BY: HDC	INITIAL:
DATE: SEPTEMBER 2023	SCALE: AS SHOWN
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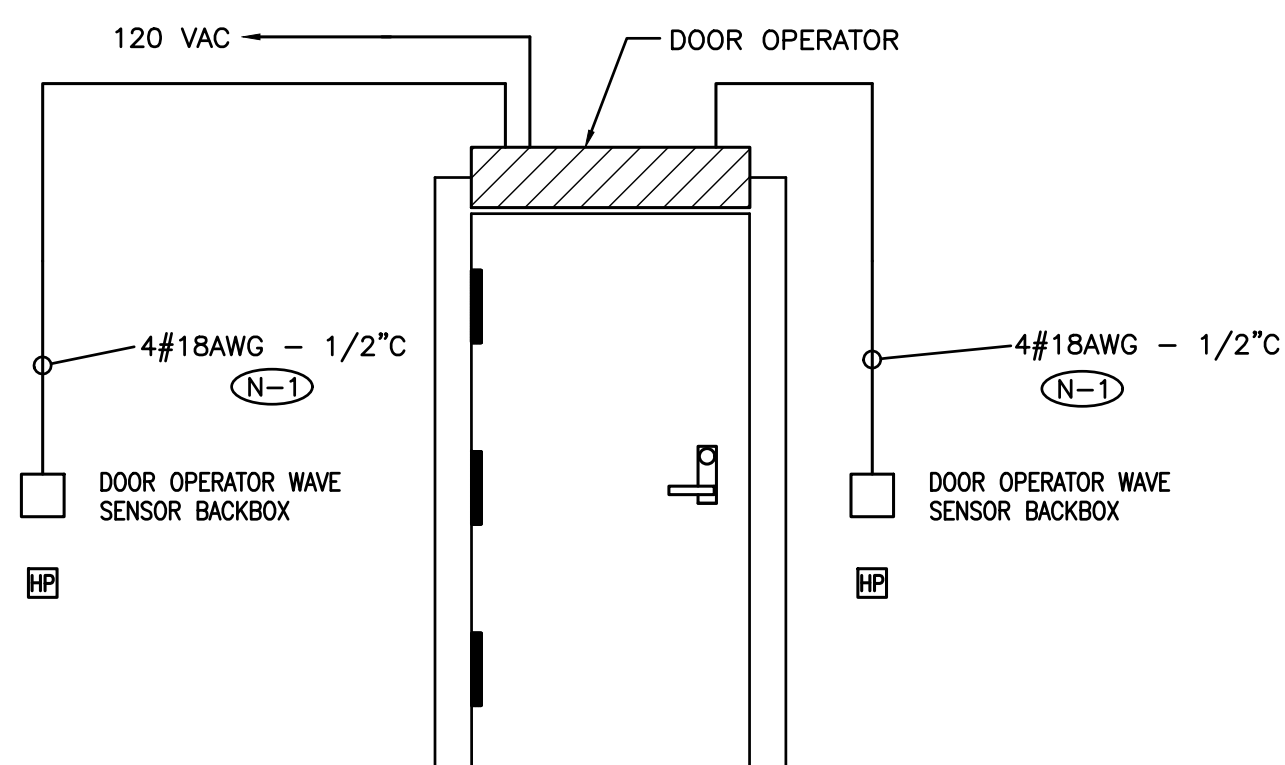
PROJECT NO: **23105** DRAWING NO: **E-1.3**



DRAWING NOTES

- (N-1) ROUGH-IN DETAILS ARE DIAGRAMMATIC.
- (N-2) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
- (N-3) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER AND DOOR OPERATOR CONTRACTOR PRIOR TO CONSTRUCTION.
- (N-4) PULLBOX INDICATED MUST BE LOCATED AT THE SECURED SIDE OF THE DOOR. MINIMUM PULLBOX SIZE 12" X 12".

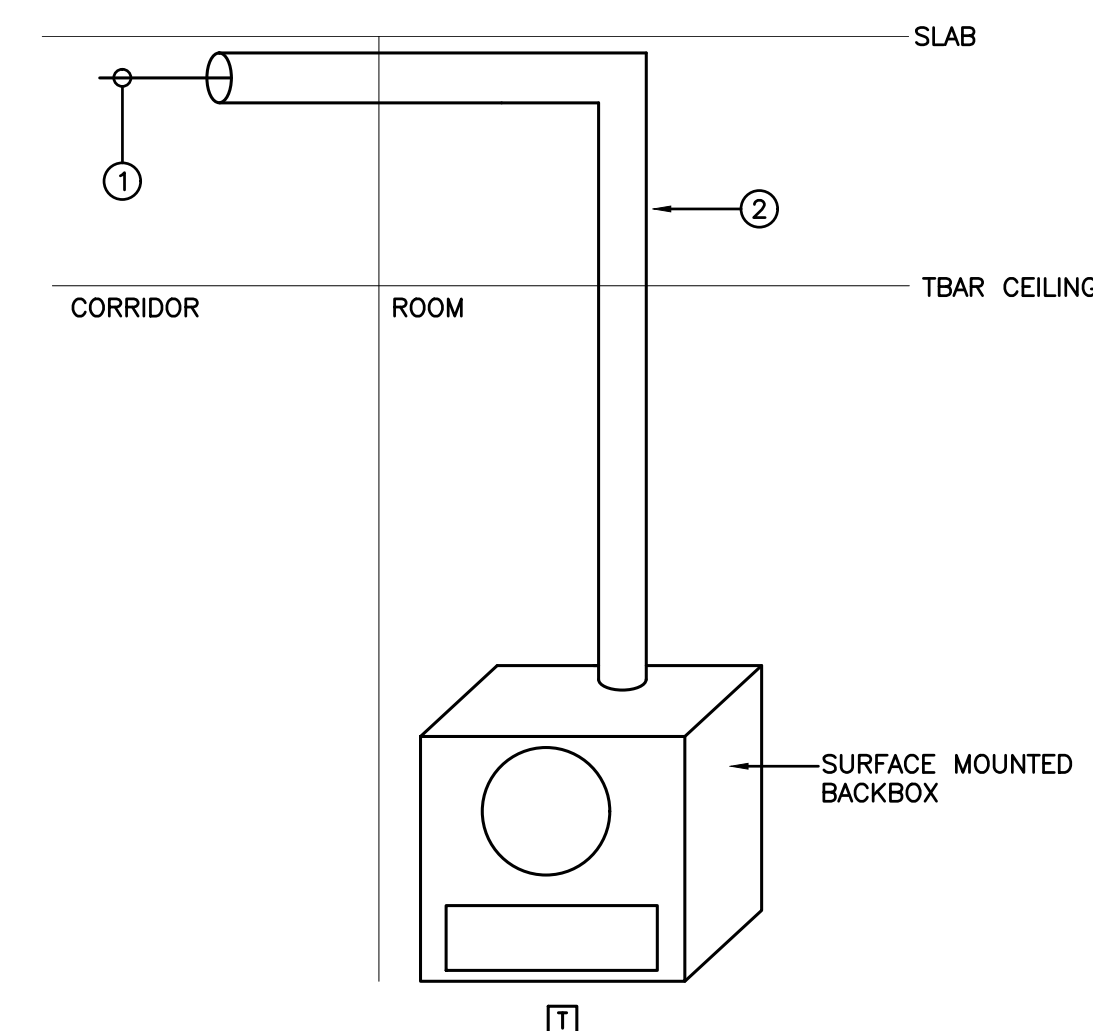
1 ELECTRONIC DOOR LOCK ROUGH-IN DETAIL
E-1.3 SCALE: NTS



DRAWING NOTES

- (N-1) PROVIDE WIRE, CONDUIT AND BACKBOXES INDICATED.
- (N-2) COORDINATE THE ROUGH-IN REQUIREMENT WITH DOOR MANUFACTURER PRIOR TO CONSTRUCTION.

2 BARRIER FREE DOOR OPENER SYSTEM DETAIL
E-1.3 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES.
- (N-2) PROVIDE SEPARATE RACEWAYS AS SHOWN FOR ALL SPEAKER WIRING AND FOR ALL CLOCK POWER/DATA WIRING.
- (N-3) CONDUITS ARE TO BE SUPPORTED BY THE CEILING STRUCTURE ABOVE.
- (N-4) REFER TO RISER DIAGRAM FOR WIRING SPECIFICATIONS AND REQUIREMENTS.

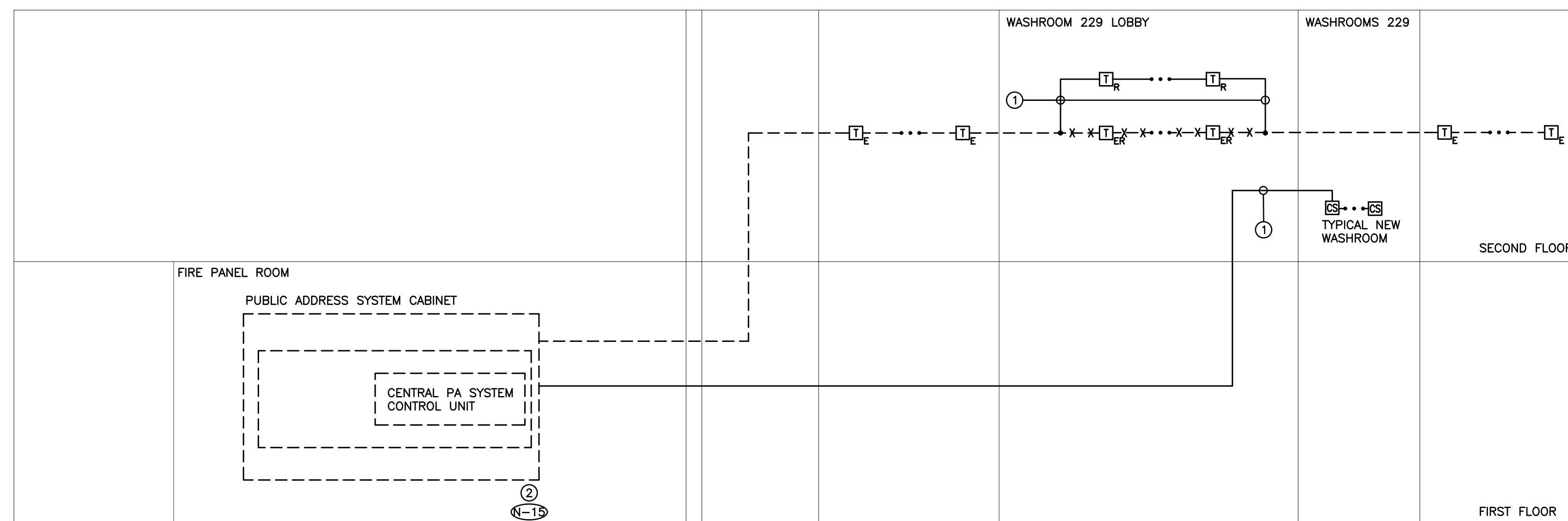
- ① SPEAKER CABLE
- ② SURFACE MOUNTED RACEWAY FOR SPEAKER CABLES

3 TYPICAL PAGING SPEAKER RACEWAY INSTALLATION DETAIL
E-1.3 SCALE: NTS

- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, DEVICES, ACCESSORIES, POWER CIRCUITS, CONDUITS, WIRES, DATA CIRCUITS, SPEAKER CIRCUITS, ETC. TO ENSURE A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM.
- (N-2) REFER TO SYSTEMS (FLOOR) PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES, INCLUDING WIREGUARDS.
- (N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
- (N-4) A SINGLE SPEAKER CIRCUIT (IE. RUN OF WIRING) SHALL NOT EXCEED FIVE (5) SPEAKERS OR A TOTAL POWER/LOAD OF 30W.
- (N-5) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- (N-6) NOT USED.
- (N-7) NOT USED.
- (N-8) SUPPLY CADDY HANGERS, THREADED ROD EXTENSIONS, CABLE SUPPORTS, TIE-WRAPPS AND ANY OTHER MISCELLANEOUS HARDWARE REQUIRED TO SUPPORT LOW VOLTAGE CABLING IN LAY-IN CEILING AREAS WHERE CONDUIT HAS NOT BEEN PROVIDED. ANCHORS FOR CADDY HANGERS MUST NOT BE DRILLED INTO POST TENSIONED BEAMS UNDER ANY CIRCUMSTANCES. BRIDAL RING CADDY FASTENERS AND OTHER ALTERNATES TO 'J-HOOKS' OR THEIR EQUIVALENT MAY NOT BE USED TO SUPPORT THE HORIZONTAL CABLING. DO NOT SUPPORT CABLES TO T-BAR CEILING HANGERS OR HAVE ANY CABLES LAYING ON CEILING TILES.
- (N-9) CABLING FOR SPEAKERS (PAGING ZONES) SHALL BE BUNDLED SEPARATELY FROM OTHER SYSTEMS TO AVOID ELECTRICAL NOISE. CABLING FOR SPEAKERS MUST BE AT LEAST 1 FOOT FROM OTHER SYSTEMS' CABLING.
- (N-10) NOT USED.
- (N-11) NOT USED.
- (N-12) ROUTE AND OFFSET SYSTEMS CABLING, ETC. PROVIDED AS PART OF THIS SCOPE OF WORK AROUND EXISTING DISTRIBUTION, JUNCTION BOXES, PULL BOXES, ETC. IN RISER ROOMS TO ACCOMMODATE INSTALLATION.
- (N-13) NOT USED.
- (N-14) NOT USED.
- (N-15) PROVIDE QUANTITY OF AMPLIFIERS, HARDWARE, SOFTWARE, POWER SUPPLIES, ETC., AS REQUIRED TO ENSURE A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM.

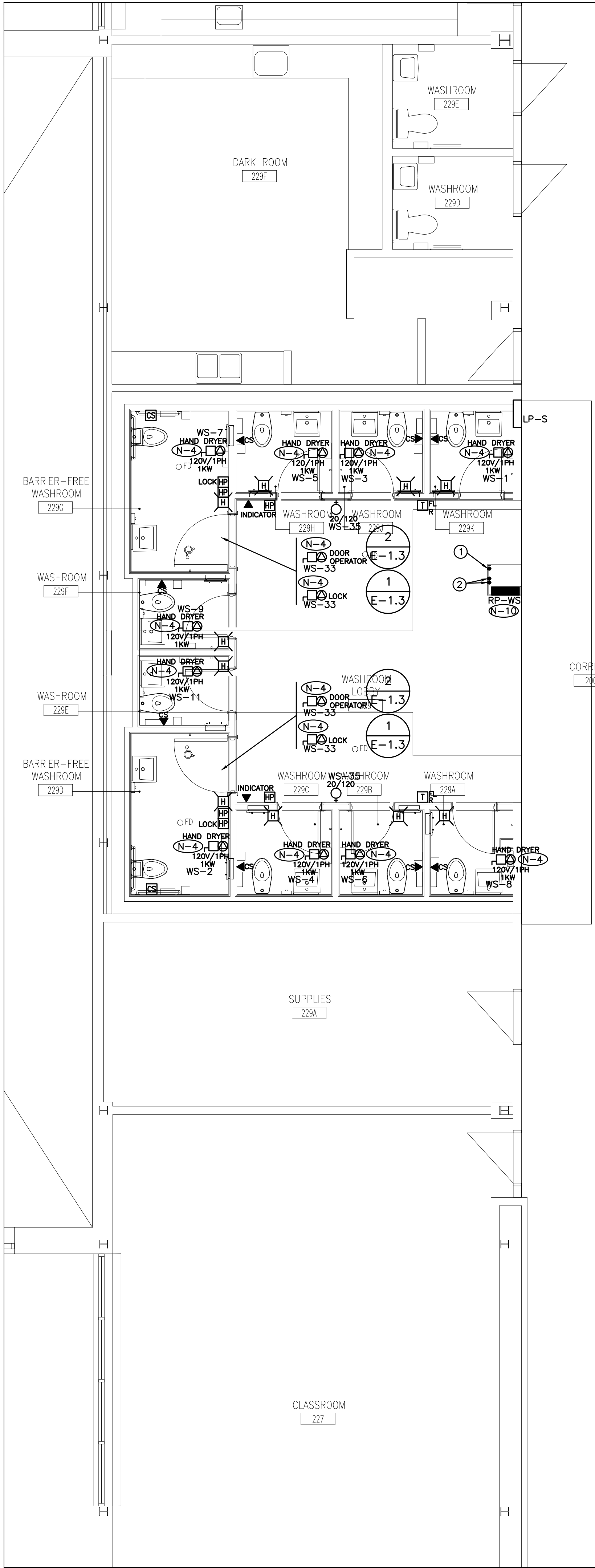
- ① CALL-SWITCH / SPEAKER WIRE
ONE PAIR PLENUM RATED - 22AWG
- ② EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN - VALCOM/SIMPLEX 5100

EXISTING PUBLIC ADDRESS SYSTEM MANUFACTURER
VALCOM, INC.
ROBBIE LEFFUE
R.LJ@VALCOM.COM
540-798-7033



- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- - - - - DENOTES EXISTING TO REMAIN
- ***** DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

4 PUBLIC ADDRESS SYSTEM RISER DIAGRAM
E-1.3 SCALE: NTS



- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-6) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-7) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-8) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-9) REMOVE AND RELOCATE EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES, EXIT SIGNS, PA SPEAKERS, ETC., TO ACCOMMODATE CONDUIT ROUTINGS AND INSTALLATION. EXISTING FIRE ALARM SYSTEM DEVICES, LIGHT FIXTURES, EXIT SIGNS, ETC., NOT SHOWN ON DRAWINGS.
- (N-10) PROVIDE THREE (3) SPARE 1 1/4" C TO CEILING SPACE C/W PULLSTRING FOR FUTURE BRANCH WIRING.
- (N-11) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL ONE (1) CSA 5-20R DUPLEX RECEPTACLES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-2.2 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION. EACH ADDITIONAL RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT COMPLETE WITH BRANCH WIRING (CONDUIT AND WIRE) AND BREAKER. BREAKER REQUIREMENTS NOT INDICATED ON PANEL SCHEDULES.
 PROVIDE RECEPTACLES, CONDUIT, WIRE (200' OF 2#10AWG + G (TOTAL OF 400' WIRE PLUS G AND 200' 3/4" CONDUIT) PER RECEPTACLE), BREAKERS, TERMINATION AT PANEL BREAKER END AND AT DEVICE END, ETC., FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND PANEL SOURCE TO BE DETERMINED ON SITE BY CLIENT DURING CONSTRUCTION. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AT THE COMPLETION OF THE PROJECT.
- (N-12) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM ALL WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-13) PROVIDE TWO (2) DUPLEX RECEPTACLES IN CEILING SPACE ON AN AD HOC BASIS FOR CONTROL CONTRACTOR'S USE. UTILIZE COTS #RP-WS-34/36. COORDINATE LOCATION OF RECEPTACLES ON SITE WITH CONTROLS CONTRACTOR. BID PRICE SHALL INCLUDE FOR 200' OF 2#10AWG + G (TOTAL OF 400' WIRE PLUS G) AND 200' 3/4" CONDUIT PER CONTROL CIRCUIT.

- ① APPROXIMATE LOCATION TO TRANSITION FIRE ALARM SYSTEM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK AND PUBLIC ADDRESS SYSTEM CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK FROM GROUND FLOOR CEILING SPACE TO SECOND FLOOR CEILING SPACE.
- ② 2" ZONE CONDUIT PROVIDED BY OTHERS AS PART OF A SEPARATE SCOPE OF WORK AND PRIOR TO THIS SCOPE OF WORK TO TRANSITION SERVICE FROM SECOND FLOOR CEILING SPACE TO GROUND FLOOR CEILING SPACE.

DO NOT SCALE THE DRAWINGS.
 CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
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NO.	ISSUES	DATE	BY
1.	ISSUED FOR REVIEW	JAN12/24	KZ
2.	ISSUED FOR PERMIT AND TENDER	JAN30/24	KZ
3.	ISSUED FOR ADDENDUM E-01	FEB20/24	KZ
4.	ISSUED FOR CONSTRUCTION	MAR18/24	KZ



NO.	REVISIONS	DATE	BY

HCC ENGINEERING
 DESIGN AND TECHNOLOGY SERVICES GROUP
 HCC ENGINEERING LIMITED
 40 EGLINTON AVENUE EAST, SUITE 600
 TORONTO, ONTARIO, M4P 3K2
 Tel: (416) 932-2423

PROJECT:
WASHROOM RENOVATION
 PORT PERRY HIGH SCHOOL
 160 ROSA STREET
 PORT PERRY, ON, L9L 1L7
 DURHAM DISTRICT SCHOOL BOARD

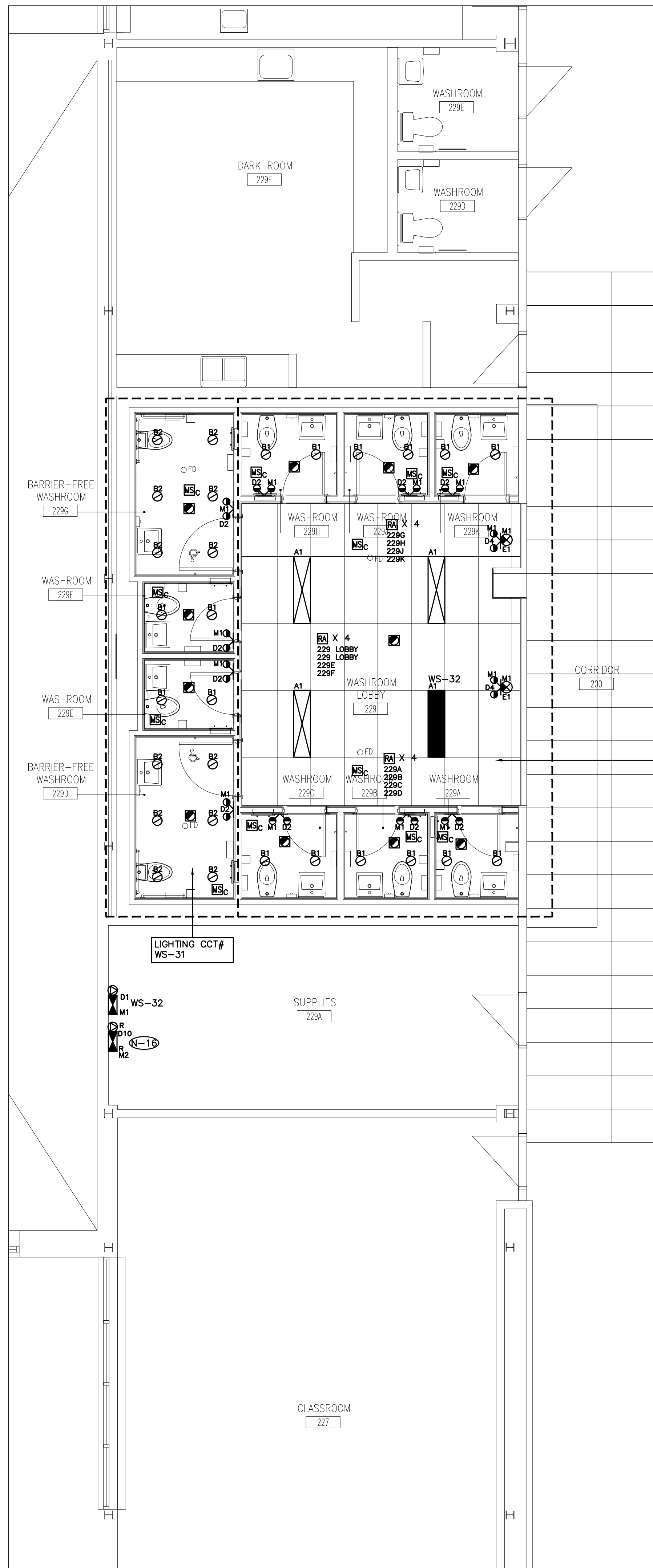
DRAWING:
ELECTRICAL PLAN
SECOND FLOOR

BARRY BRYAN ASSOCIATES
 Architects
 Engineers
 Project Managers
 250 Water Street
 Suite 201
 Whitby, Ontario
 L1N 0G5
 Tel: (905) 696-5252
 Fax: (905) 696-5256
 e-mail: bba@bba-archeng.com

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DATE: SEPTEMBER 2023	
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FILE:	

PROJECT NO:
23105

DRAWING NO:
E-2.2



- (N-1) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT SWITCHES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, ETC., TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
- (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).
- (N-5) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-6) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-7) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- (N-8) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- (N-9) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (N-10) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6' AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-11) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- (N-12) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-13) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- (N-14) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.
- (N-15) UTILIZE CCT #WS-32 (DC SOURCE M1) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
- (N-16) REWIRE AND EXTEND EXISTING AC AND DC WIRING TO ALL EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN REMOTE HEADS AND EXIT SIGNS NOT SHOWN ON DRAWING.

FIXTURE SCHEDULE

- TYPE A1 - 2500 LUMEN 1' X 4' RECESSED MOUNTED LED FIXTURE, SUITABLE FOR LAY-IN CEILING C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/85% CRI). COOPER LIGHTING CRUZE SERIES 14CZ2-25-UNV-L840-CD1-U
- TYPE B1 - 1000 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, WIDE DISTRIBUTION AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING PORTFOLIO SERIES LD4C10D010 EU4C109040 4LBW1H HB26.
- TYPE B2 - 800 LUMEN 4" ROUND RECESSED MOUNTED LED DOWNLIGHT FIXTURE C/W IN-LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER, MEDIUM DISTRIBUTION AND LED LAMP (4000K, 90%CRI). COOPER LIGHTING PORTFOLIO SERIES LD4C08D010 EU4C089040 4LBM1H HB26.
- TYPE LE1 - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, ACRYLIC LENS AND 2 X T8 LAMPS.
- TYPE LE2 - 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W 120V BALLAST, CURVED ACRYLIC LENS AND 2 X T8 LAMPS.
- TYPE LE3 - 4' SURFACE MOUNTED LINEAR FLUORESCENT FIXTURE C/W 120V BALLAST 1 X T8 LAMP.
- TYPE D1 - EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120V VOLT INPUT/STANPRO SLD SERIES SLD-24-720-00-X-WH. WHITE IN COLOUR.
- TYPE D2 - 2 X 5W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.
- TYPE D3 - 1 X 5W LA LED 24V STANPRO SMC ANTI VANDAL REMOTE HEAD, WHITE IN COLOUR.
- TYPE D4 - 2 X 7W LA LED 24V STANPRO SMC2W ANTI VANDAL REMOTE HEADS, WHITE IN COLOUR.
- TYPE D8 - 2 X REMOTE HEADS
- TYPE D10 - EMERGENCY LIGHTING SYSTEM BATTERY UNIT
- TYPE E1 - PICTOGRAM GREEN ANTI VANDAL LED EXIT SIGN C/W STANPRO FIELD INSTALLABLE CANOPY KIT. STANPRO RMV SERIES RMV-X-X-WH-UDC.

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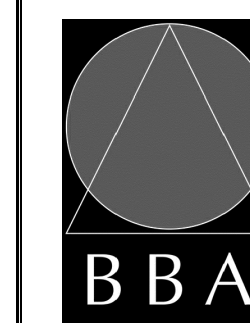


PROJECT:

WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:

**REFLECTED
CEILING PLAN
SECOND FLOOR**



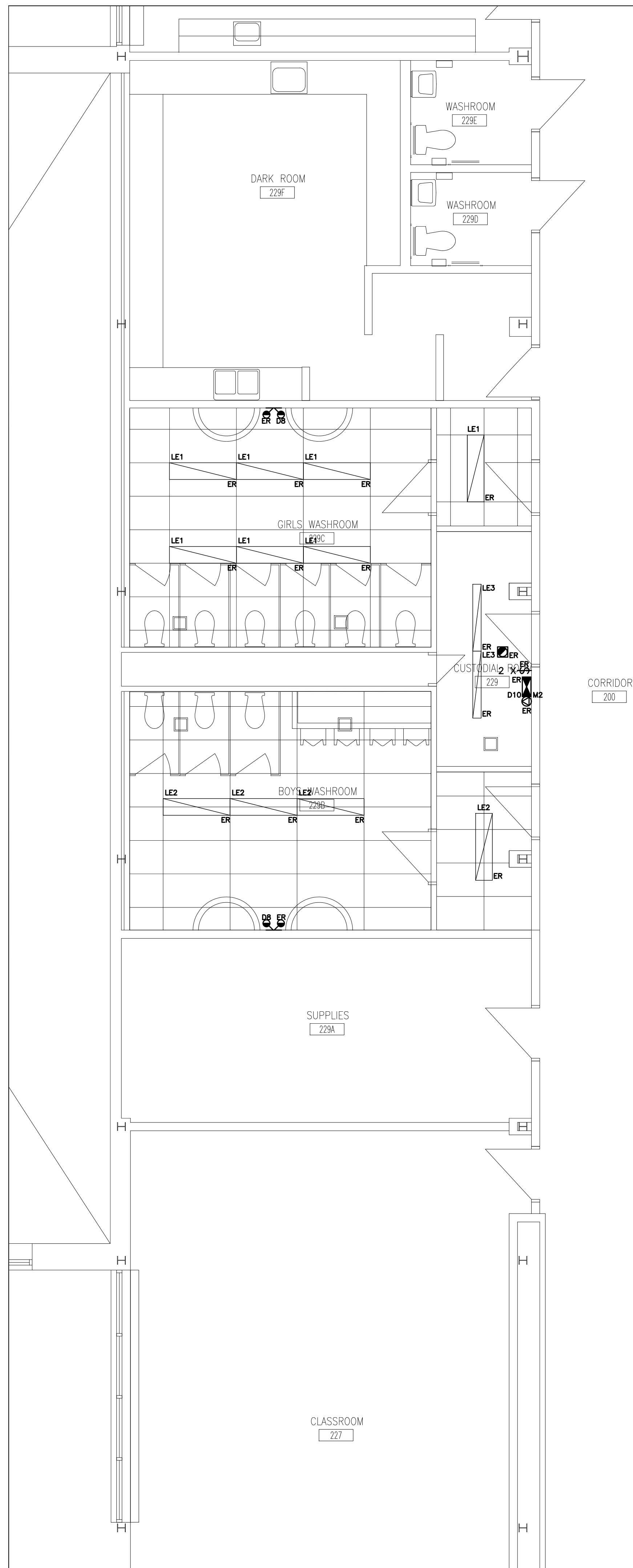
BARRY BRYAN ASSOCIATES

Architects
Engineers
Project Managers
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L1N 0G5
Tel: (905) 696-6252
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CHECKED BY: HDC	INITIAL:
DATE: SEPTEMBER 2023	SCALE: 1:50
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PROJECT NO:
23105

DRAWING NO:
E-3.2



- (N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DRAWING NO. E-3.2 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- (N-2) NOT USED.
- (N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF ONE (1) ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-6.2.
- (N-4) DISPOSE OF ALL FIXTURES (EXCLUDING BASE BUILDING FIXTURES) REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN "GREEN MEASURES" REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-5) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-6) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.

REFER TO DRAWING NO. E-3.2 FOR FIXTURE SCHEDULE.

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DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
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TORONTO, ONTARIO, M4P 3K2
Tel: (416) 932-2423

PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGH SCHOOL
160 ROSA STREET
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DURHAM DISTRICT SCHOOL BOARD

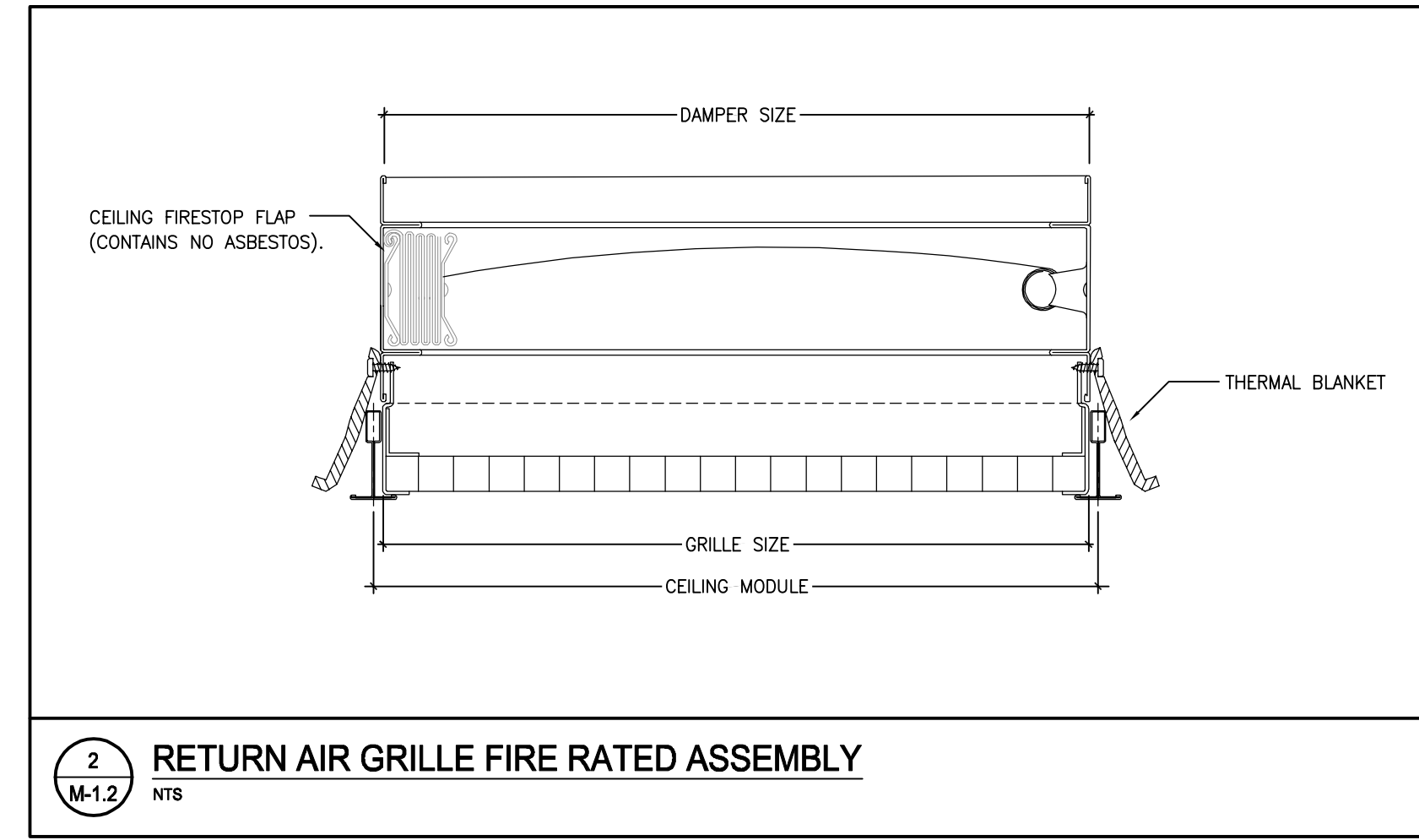
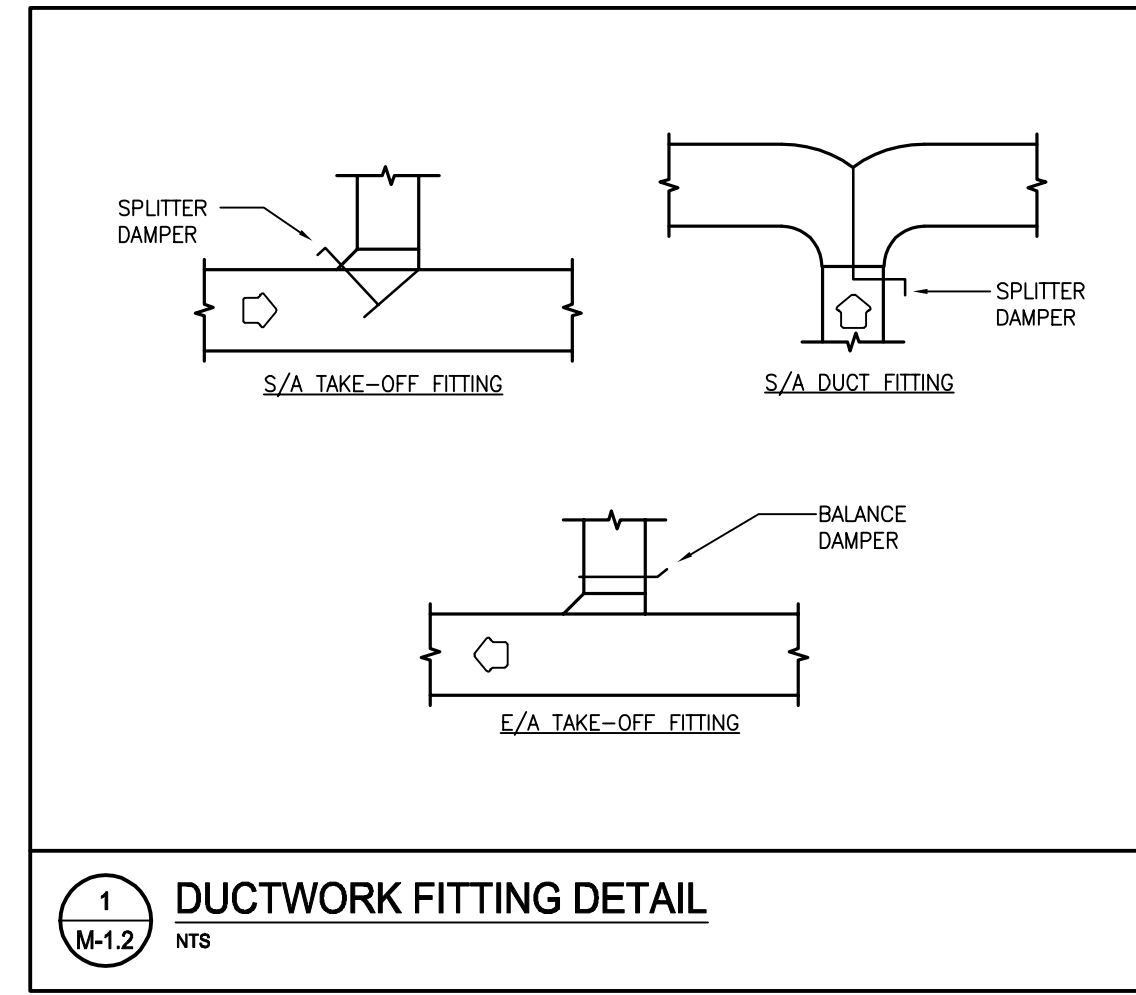
DRAWING:
REFLECTED CEILING DEMOLITION PLAN SECOND FLOOR

BARRY BRYAN ASSOCIATES
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Engineers
Project Managers
250 Water Street
Suite 201
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L1N 0G5
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Fax: (905) 696-6256
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DATE: SEPTEMBER 2023	
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FILE:	

PROJECT NO: **23105** DRAWING NO: **E-6.2**

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURES SPECIFICATION	PIPE CONNECTION				
		TRAP	COLD WATER	HOT WATER	DRAIN	VENT
WC1	WALL MOUNTED TOILET – VITREOUS CHINA – FOR FLUSHOMETER – EXPOSED – AUTOMATIC AMERICAN STANDARD 2257101.020 TOILET – AFWALL MILLENNIUM FLOWISE, TOILET, WALL-HUNG WITH WALL OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 – 1.6 GPF), WHITE FINISH VITREOUS CHINA, ELONGATED BOWL. CENTOCO 1500STSCCFE-001 SEAT – FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, AND PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM TAKES THE GUESS WORK OUT WHEN TIGHTENING THE HARDWARE. THE SPECIALLY DESIGNED FASTENERS IN CLICK WHEN THE APPROPRIATE TORQUE IS REACHED. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL. SLOAN SL-ECOS 8111-128 OR FLUSH VALVE – ECOS AUTOMATIC NO-TOUCH EXPOSED WATER CLOSET FLUSHOMETER, BATTERY POWERED, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). WATTS ISCA-101-L/R-M11 CARRIER – CLOSET CARRIER, ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT CONNECTIONS, TILING FRAME. CHAMPION MI-XHUB COUPLING – NEOPRENE RUBBER, SHIELDED TRANSITION COUPLING, UNSIZED PIPE, FOUR CLAMPS FOR 2" TO 4" PIPESIZE, SIX CLAMPS FOR 5" TO 15" PIPESIZE, TYPE 304 STAINLESS STEEL CLAMPS, TYPE 304 ANSI STAINLESS STEEL EYELETS.	75ø	25ø	–	75ø	38ø
WC2	WALL MOUNTED TOILET – VITREOUS CHINA – FOR FLUSHOMETER – EXPOSED – AUTOMATIC – BARRIER FREE AMERICAN STANDARD 2257101.020 TOILET – AFWALL MILLENNIUM FLOWISE, TOILET, WALL-HUNG WITH WALL OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 – 1.6 GPF), WHITE FINISH VITREOUS CHINA, ELONGATED BOWL. CENTOCO 1500STSCCFE-001 SEAT – FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, AND SELF-SUSTAINING PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM TAKES THE GUESS WORK OUT WHEN TIGHTENING THE HARDWARE. THE SPECIALLY DESIGNED FASTENERS IN CLICK WHEN THE APPROPRIATE TORQUE IS REACHED. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL. SLOAN SL-ECOS 8111-128 OR FLUSH VALVE – ECOS AUTOMATIC NO-TOUCH EXPOSED WATER CLOSET FLUSHOMETER, BATTERY POWERED, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). FRANKE COMMERCIAL CM-16104-WM BACKREST – WALL MOUNTING, BACK REST, SOLID CORE PLASTIC LAMINATE PANEL BACK, ANTIQUE WHITE WATTS ISCA-101-L/R-M11 CARRIER – CLOSET CARRIER, ADJUSTABLE FOR STANDARD AND WHEELCHAIR HEIGHT, 102 MM (4") NO HUB WASTE, 51 MM (2") NO HUB VENT CONNECTIONS, TILING FRAME. CHAMPION MI-XHUB COUPLING – NEOPRENE RUBBER, SHIELDED TRANSITION COUPLING, UNSIZED PIPE, FOUR CLAMPS FOR 2" TO 4" PIPESIZE, SIX CLAMPS FOR 5" TO 15" PIPESIZE, TYPE 304 STAINLESS STEEL CLAMPS, TYPE 304 ANSI STAINLESS STEEL EYELETS.	75ø	25ø	–	75ø	38ø
L1	WALL MOUNT BASIN – AUTOMATIC FAUCET AMERICAN STANDARD 9134001EC.020 BASIN – DECORUM, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH. MOEN MODEL 8884 SINGLE-HANDLE ADA METERING LAVATORY FAUCET – CHROME PLATED, METERING FAUCET, LEVER STYLE HANDLE, SINGLE HOLE CENTERSET, CYCLE TIME FROM 5-60 SECONDS, 0.5 GPM (1.9 LPM) FLOW RATE, SELF CONTAINED METERING MECHANISM, MULTI-STREAM LAMINAR FLOW. LAWLER 570-86820 MIXING VALVE – POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 – 30 LPM (0.5 – 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95° THROUGH 115 °F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE @ 45 PSI. WATTS WCA-411 CARRIER – WCA-411/WCA-411-WC, LAVATORY CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON. PROVIDE FIXTURE DRAIN AND P-TRAP EQUAL TO MCGUIRE 155A AND MCGUIRE 8872C, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	32ø	12ø	12ø	32ø	32ø
L2	WALL MOUNT BASIN – AUTOMATIC FAUCET – BARRIER FREE AMERICAN STANDARD 9024001EC.020 BASIN – DECORUM, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH. MOEN MODEL 8884 SINGLE-HANDLE ADA METERING LAVATORY FAUCET – CHROME PLATED, METERING FAUCET, LEVER STYLE HANDLE, SINGLE HOLE CENTERSET, CYCLE TIME FROM 5-60 SECONDS, 0.5 GPM (1.9 LPM) FLOW RATE, SELF CONTAINED METERING MECHANISM, MULTI-STREAM LAMINAR FLOW. LAWLER 570-86820 MIXING VALVE – POINT OF USE, THERMOSTATIC MASTER WATER MIXING CONTROL VALVE, LEAD FREE BRASS BODY CONSTRUCTION, NICKEL PLATED FINISH, 1.9 – 30 LPM (0.5 – 8 GPM) RANGE FOR FLOWRATE, 11 LPM (3 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 4-7/8" (124 MM) HEIGHT, 3/8" MNPT (9.5 MM) INLET, 95-115 °F OUTLET WATER TEMPERATURE RANGE, 3/8" MNPT (9.5 MM) OUTLET, INTERNAL CHECKS, OFFERS CHOICE OF TEMPERATURE SETTINGS FROM 95° THROUGH 115 °F., 125 PSI MAX HYDROSTATIC PRESSURE, ±20% PRESSURE VARIATION, 7 GPM FLOWRATE @ 45 PSI. WATTS WCA-411 CARRIER – WCA-411/WCA-411-WC, LAVATORY CARRIER, FOR CONCEALED ARM CARRIER, ADJUSTABLE ARMS, EPOXY COATED CAST IRON. PROVIDE OFFSET FIXTURE DRAIN AND P-TRAP C/W MOLDED PROTECTIVE WRAP EQUAL TO MCGUIRE PW2125WC, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	32ø	12ø	12ø	32ø	32ø
WCO	WALL CLEANOUT – WALL ACCESS WATTS CO-380-RD CLEANOUT – NON-ADJUSTABLE WALL CLEANOUT, CAST IRON, NO-HUB OUTLET, ROUND STAINLESS STEEL ACCESS COVER REMOVABLE GAS TIGHT GASKETED BRASS CLEANOUT PLUG FOR URINAL.	–	–	–	100ø	–
FD	FLOOR DRAIN WATTS FD-100NH-C-A5-1 FLOOR DRAIN – EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE ROUND 6 MM (1/4") THICK TOP, NO-HUB OUTLET, 127 MM (5") DIAMETER NICKEL BRONZE STRAINER, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 52 CM² (8 SQ. IN) FREE AREA.	75ø	–	–	75ø	38ø
TSP	FLOW ACTIVATED TRAP PRIMER PPP PRO1-500-DU-4 TRAP PRIMER – FLOW ACTIVATED TRAP PRIMER, C68020 LEAD FREE BRASS, 0.1 LPM (0.25 GPM), 1/2" FNPT (12 MM) INLET, 1/2" FIP (12 MM) OUTLET, NEOPERL CHECK VALVE, GREY PVC CHECK VALVE ADAPTER, STAINLESS STEEL SCREEN, COPPER BODY DISTRIBUTION UNIT WITH 4 – 3/8" FPT BRASS DISCHARGE FITTINGS AND 13 MM (1/2") MALE NPT COMPOSITE INLET.	–	12ø	–	–	–
NOTES: 1. REFER TO INTERIOR DESIGNER'S DRAWINGS FOR SPECIFICATIONS OF PLUMBING FIXTURES NOT LISTED ON MECHANICAL DRAWINGS.						



DIFFUSER SCHEDULE			
TAG	MAKE/MODEL	FINISH	REMARKS
A	EH PRICE MODEL 535 LOUVERED FACE RETURN GRILLE	–	STEEL CONSTRUCTION, 45° DEFLECTION, 1/2" BLADE SPACING, FOR SURFACE MOUNTING C/W OPPOSED BLADE DAMPER. SIZE AS INDICATED ON DRAWINGS.
B	EH PRICE MODEL 80-FR FIRE RATED EGG CRATE EXHAUST GRILLE	–	1/2"x1/2"x1/2" ALUMINUM GRID CORE WITH FRAME TYPE FOR SURFACE MOUNTING C/W CEILING RADIATION DAMPER (CURTAIN TYPE), THERMAL BLANKET (NON-ASBESTOS) AND STANDARD FUSIBLE LINK. SIZE AS INDICATED ON DRAWINGS.
NOTES: 1. TITUS AND MAILOR WILL BE CONSIDERED EQUAL GIVEN THAT THE PERFORMANCE DATA IS EQUIVALENT. 2. SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS. 3. CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.			

1
M-1.2
NTS
DUCTWORK FITTING DETAIL

2
M-1.2
NTS
RETURN AIR GRILLE FIRE RATED ASSEMBLY

Giallonardo Engineering Inc.
228-4558 Highway 7
Woodbridge, ON
L4L 4Y7
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The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.



NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	JAN. 12 2024	JH
2	ISSUED FOR PERMIT/TENDER	JAN. 31 2024	RG
3	ISSUED FOR CONSTRUCTION	MAR. 18 2024	GG
NO.	REVISIONS	DATE	BY

PROJECT:
WASHROOM RENOVATION
PORT PERRY HIGHSCHOOL
160 ROSA STREET
PORT PERRY, ON, L9L 1L7
DURHAM DISTRICT SCHOOL BOARD

DRAWING:
MECHANICAL SCHEDULES AND DETAILS

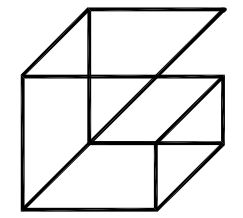
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BARRY BRYAN ASSOCIATES
Architects Engineers Project Managers
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Tel: (905) 896-5252 Fax: (905) 896-5258 e-mail: bba@bbs-ereng.com

DESIGN BY: RG
DRAWN BY: GG
CHECKED BY: JH
DATE: SEPTEMBER 2023
SCALE: AS NOTED
FILE:

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REGISTERED PROFESSIONAL ENGINEER
R. GIALLONARDO
2024-03-18
00152400
PROVINCE OF ONTARIO

PROJECT NO: **23-165**
DRAWING NO: **M-1.2**



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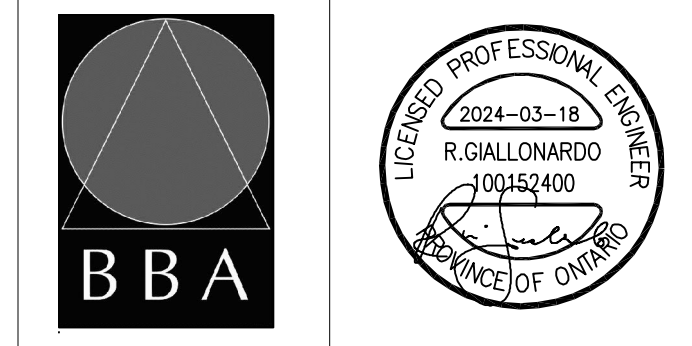


NO.	ISSUES	DATE	BY
1	ISSUED FOR REVIEW	JAN. 12 2024	JH
2	ISSUED FOR PERMIT/TENDER	JAN. 31 2024	RG
3	ISSUED FOR CONSTRUCTION	MAR. 18 2024	GG

NO.	REVISIONS	DATE	BY

PROJECT:
WASHROOM RENOVATION
 PORT PERRY HIGHSCHOOL
 160 ROSA STREET
 PORT PERRY, ON, L9L 1L7
 DURHAM DISTRICT SCHOOL BOARD

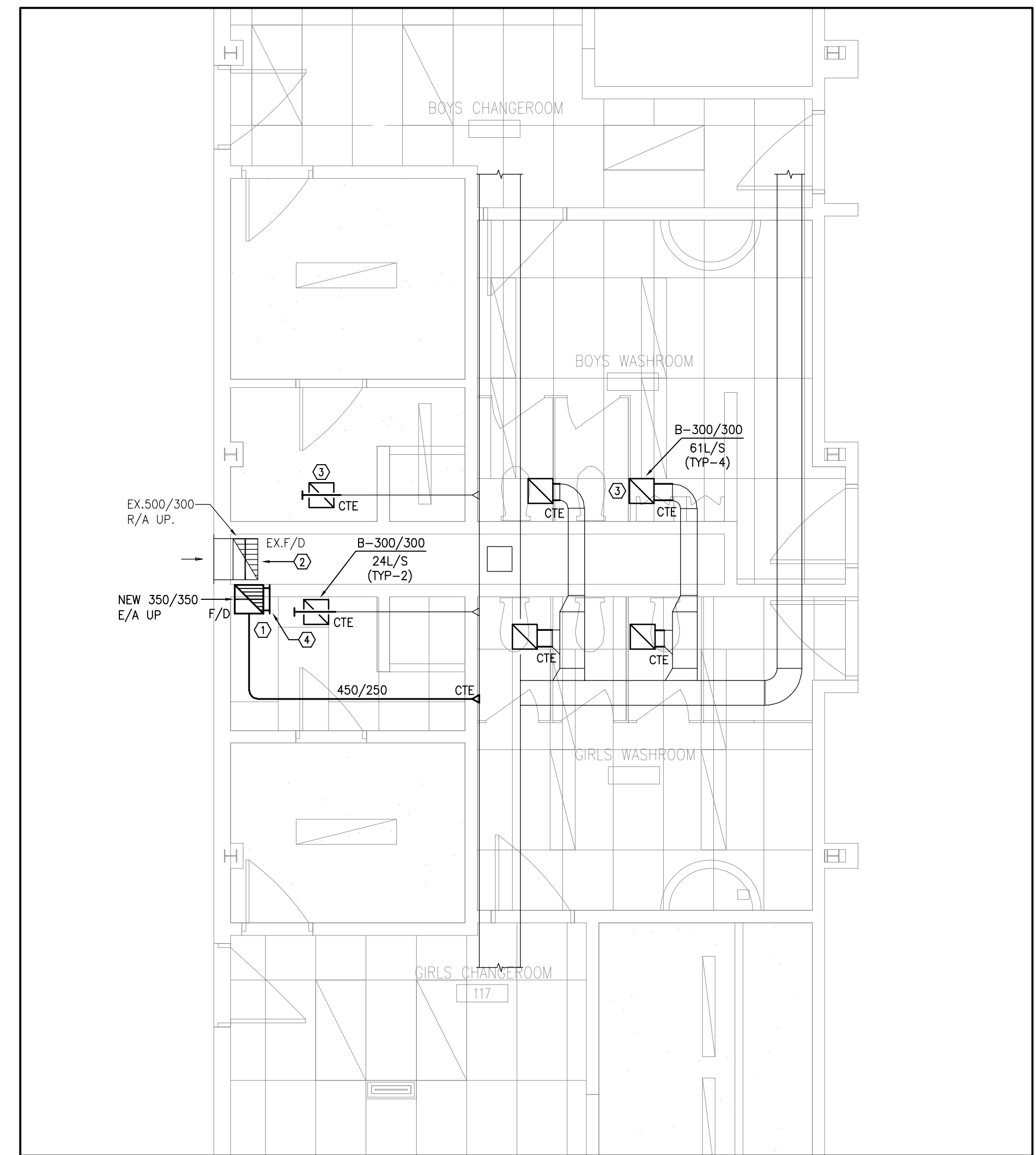
DRAWING:
PART FIRST AND SECOND FLOOR PLAN - HVAC NEW



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DATE: SEPTEMBER 2023	
SCALE: AS NOTED	
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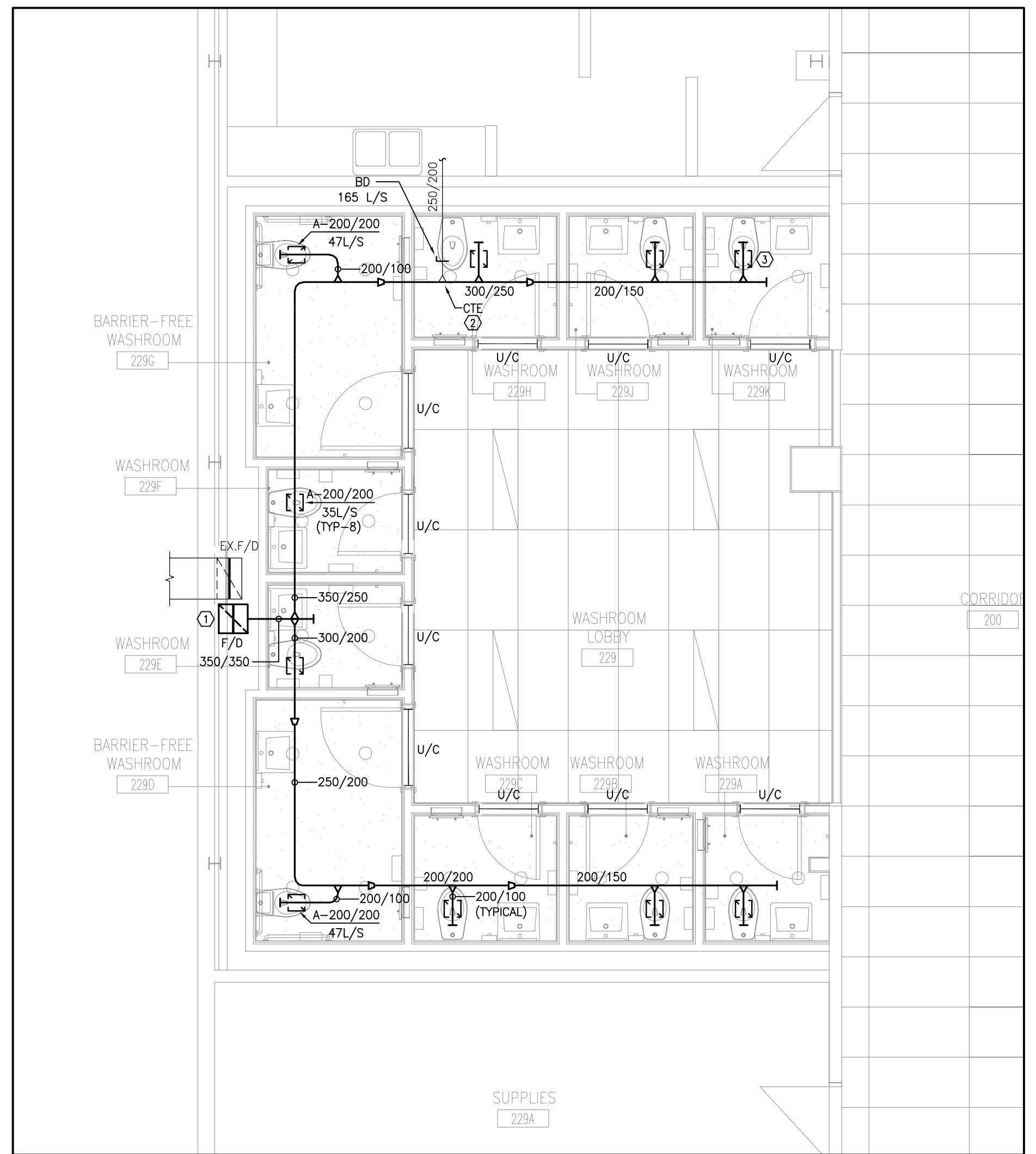
PROJECT NO: **23-165** DRAWING NO: **M-2.2**



1 PART FIRST FLOOR PLAN - HVAC NEW
 M-2.2 1:50

- HVAC NOTES**
- PROVIDE NEW EXHAUST DUCTWORK UP TO FLOOR ABOVE C/W FIRE DAMPER. PROVIDE DUCT ACCESS PANEL AS REQUIRED FOR FIRE DAMPER ACCESS WITHIN CEILING SPACE OF GROUND FLOOR. CONNECT TO EXISTING MAIN EXHAUST DUCT IN GROUND FLOOR CEILING SPACE WHERE SHOWN.
 - PROVIDE NEW FIRE DAMPER ACCESS PANEL ON EXISTING RETURN DUCT ACCESSIBLE GROUND WITHIN PIPE CHASE.
 - PROVIDE NEW SURFACE-MOUNTED FIRE-RATED E/A GRILLE AS SPECIFIED C/W THERMAL BLANKET. MAKE MODIFICATIONS TO EXISTING DUCTWORK TO SUIT SIZE OF NEW GRILLE. CONTRACTOR TO PROVIDE A SEPARATE PRICE FOR THIS WORK (TYPICAL).
 - PROVIDE FIRE DAMPER ACCESS DOOR IN ACCESSIBLE CEILING SPACE. SIZE IN ACCORDANCE WITH NFPA.

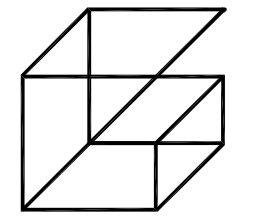
- GENERAL HVAC NOTES**
- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
 - THESE DRAWINGS HAVE BEEN PREPARED FOR DIV.23 AND DO NOT ACCURATELY DISPLAY ALL ELECTRICAL, STRUCTURAL AND ARCHITECTURAL ELEMENTS. REFER TO OTHER DIVISION'S DRAWINGS FOR CLARIFICATION.
 - THIS CONTRACTOR SHALL VISIT THE SITE AND COMPLETELY INVESTIGATE AND UNDERSTAND THE EXISTING CONDITIONS AND THEIR RELATION TO THE DESIGN DRAWINGS/DOCUMENTS. NO CONSIDERATION WILL BE GIVEN TO THE CONTRACTOR FOR ANY HINDRANCES TO THE MECHANICAL INSTALLATION FROM SITE CONDITIONS WHICH EXISTED PRIOR TO TENDER SUBMISSION. AS SUCH AND WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE INTERFERENCE DRAWINGS AND SHALL SUBMIT THEM TO THE CONSULTANT FOR REVIEW.



2 PART SECOND FLOOR PLAN - HVAC NEW
 M-2.2 1:50

- HVAC NOTES**
- NEW EXHAUST DUCTWORK FROM BELOW C/W FIRE DAMPER AT FLOOR PENETRATION.
 - RECONNECT EXISTING EXHAUST DUCT WHERE SHOWN C/W BALANCING DAMPER. BALANCE AS INDICATED.
 - PROVIDE NEW EXHAUST GRILLE AS SPECIFIED. BALANCE AS INDICATED (TYPICAL).

- GENERAL HVAC NOTES**
- THE MECHANICAL DRAWINGS DISPLAY A GENERAL DESIGN AND INSTALLATION. THEREFORE, IF REQUIRED, THE CONTRACTOR SHALL OBTAIN CLARIFICATION FROM THE CONSULTANT PRIOR TO INSTALLATION.
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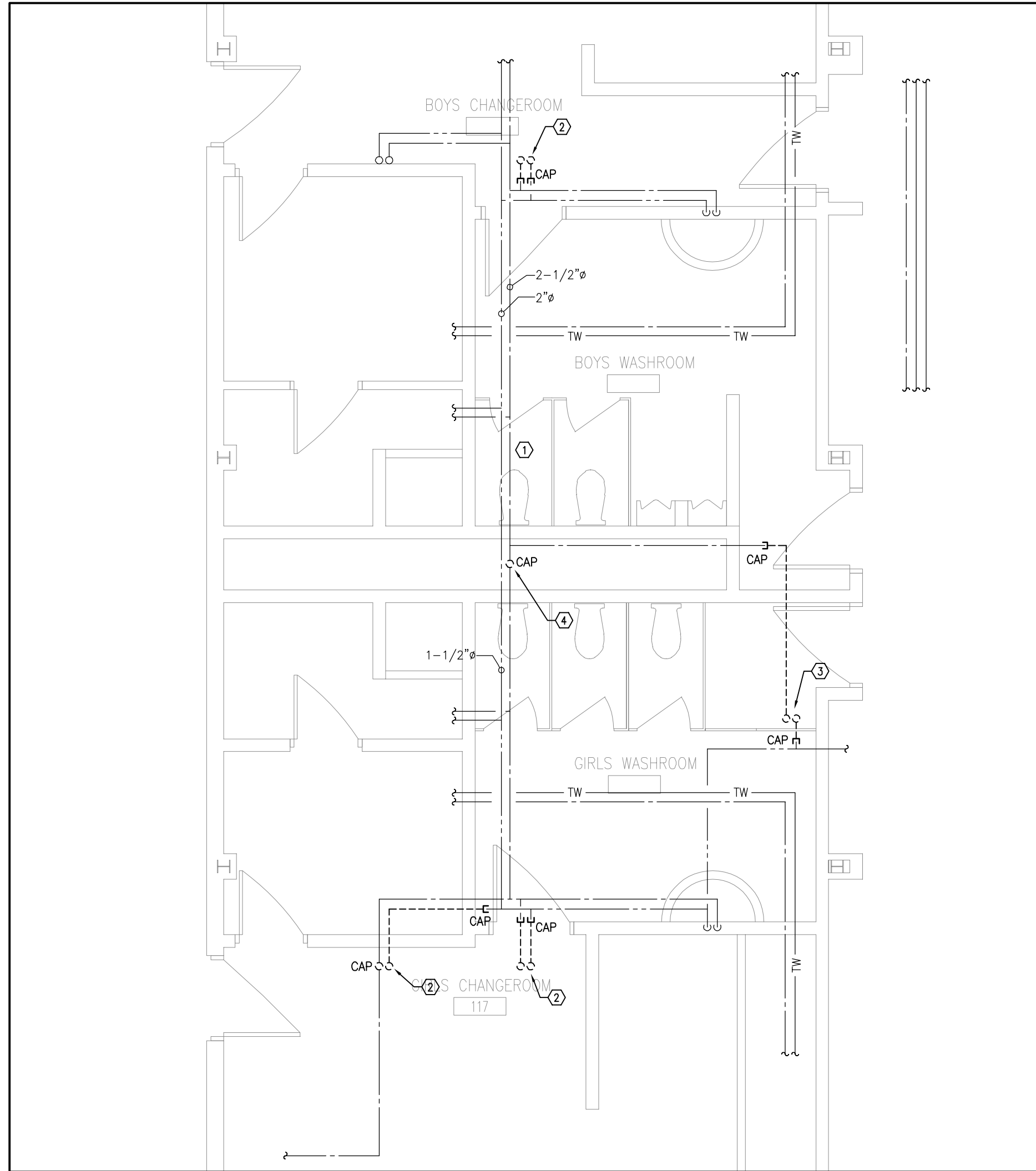


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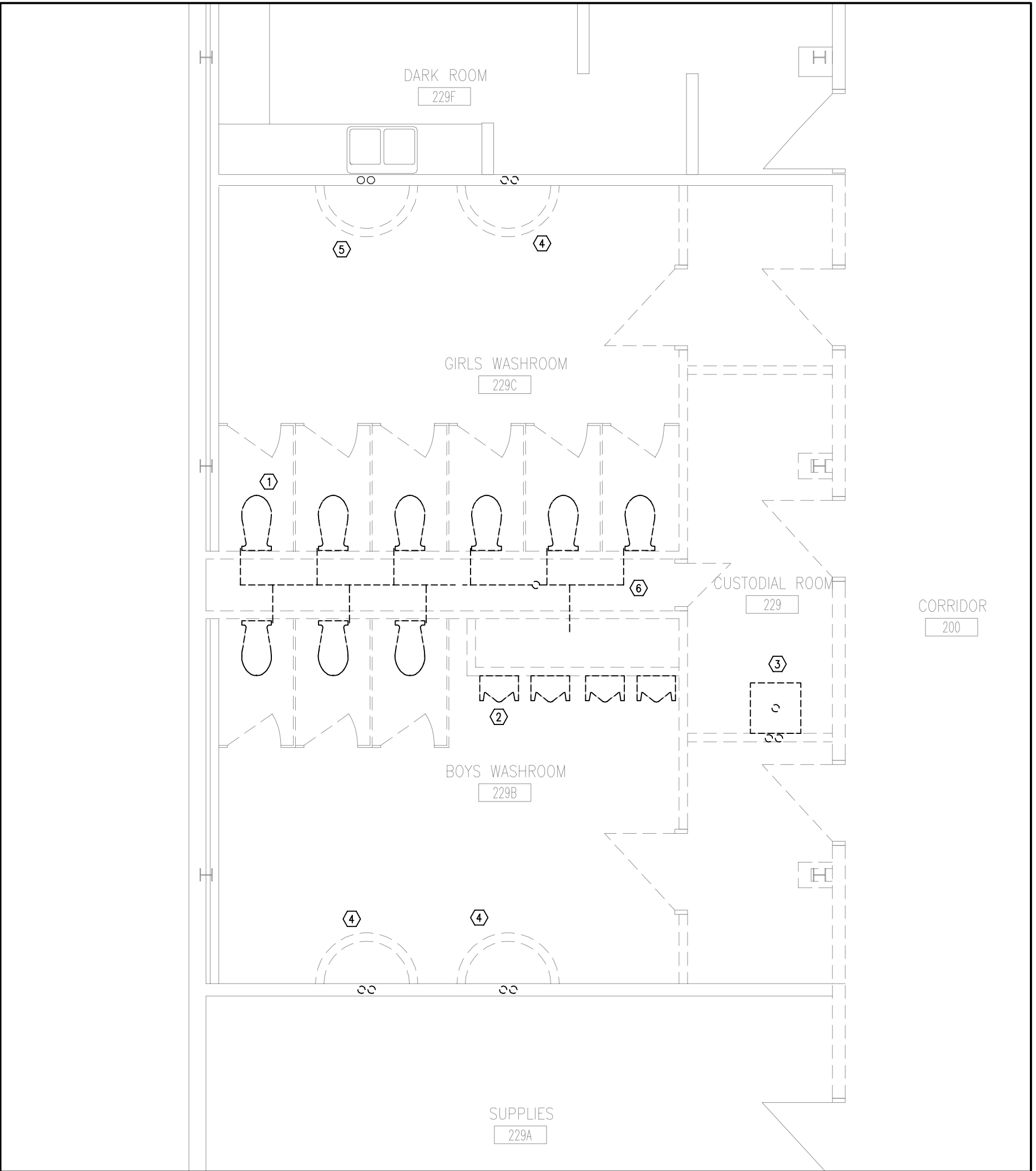
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1 PART FIRST FLOOR PLAN - PLUMBING DEMOLITION
M-3.1 1:50

- PLUMBING DRAWING NOTES**
- EXISTING DOW/DHW PIPING IN CEILING SPACE TO REMAIN (TYPICAL).
 - EXISTING DOW/DHW UP SERVING WASH BASIN ON 2ND FLOOR TO BE REMOVED AND DISPOSED OF. CAP WHERE SHOWN.
 - EXISTING DOW/DHW UP SERVING MOP SINK ON 2ND FLOOR TO BE REMOVED AND DISPOSED OF. CAP WHERE SHOWN.
 - EXISTING DOW UP SERVING WATER CLOSETS AND URINALS ON 2ND FLOOR TO BE REMOVED AND DISPOSED OF. CAP AT MAIN IN PIPE CHASE.

- GENERAL NOTES**
- ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ON-SITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
 - PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
 - PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 - PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
 - PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
 - PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



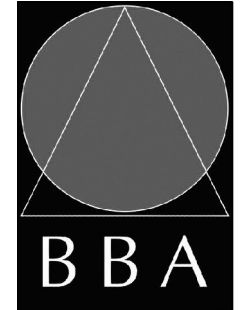
2 PART SECOND FLOOR PLAN - PLUMBING DEMOLITION
M-3.1 1:50

- PLUMBING DRAWING NOTES**
- EXISTING WATER CLOSET TO BE REMOVED AND DISPOSED OF (TYPICAL).
 - EXISTING URINAL TO BE REMOVED AND DISPOSED OF (TYPICAL).
 - EXISTING MOP SINK TO BE REMOVED AND DISPOSED OF. REMOVE DCW/DHW PIPING DOWN TO FLOOR BELOW.
 - EXISTING WASH BASIN TO BE REMOVED AND DISPOSED OF. REMOVE DCW/DHW PIPING DOWN TO FLOOR BELOW.
 - EXISTING WASH BASIN TO BE REMOVED AND DISPOSED OF. REMOVE DCW/DHW PIPING ROUGH-INS AND CAP IN WALL SPACE. DCW/DHW PIPING SERVING SINK IN ROOM 229F TO REMAIN.
 - EXISTING DOW IN PIPE CHASE TO BE COMPLETELY REMOVED DOWN TO FLOOR BELOW.

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DURHAM DISTRICT SCHOOL BOARD

DRAWING:
PART FIRST AND SECOND FLOOR PLAN - PLUMBING DEMOLITION

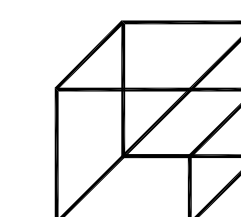


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PROJECT NO: **23-165** DRAWING NO: **M-3.1**



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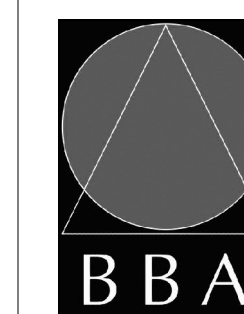
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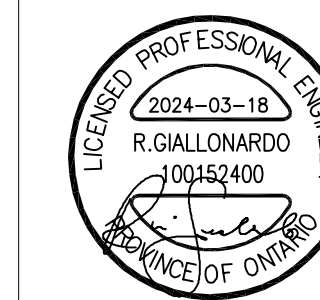
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DRAWING:
PART FIRST AND SECOND FLOOR PLAN - PLUMBING NEW

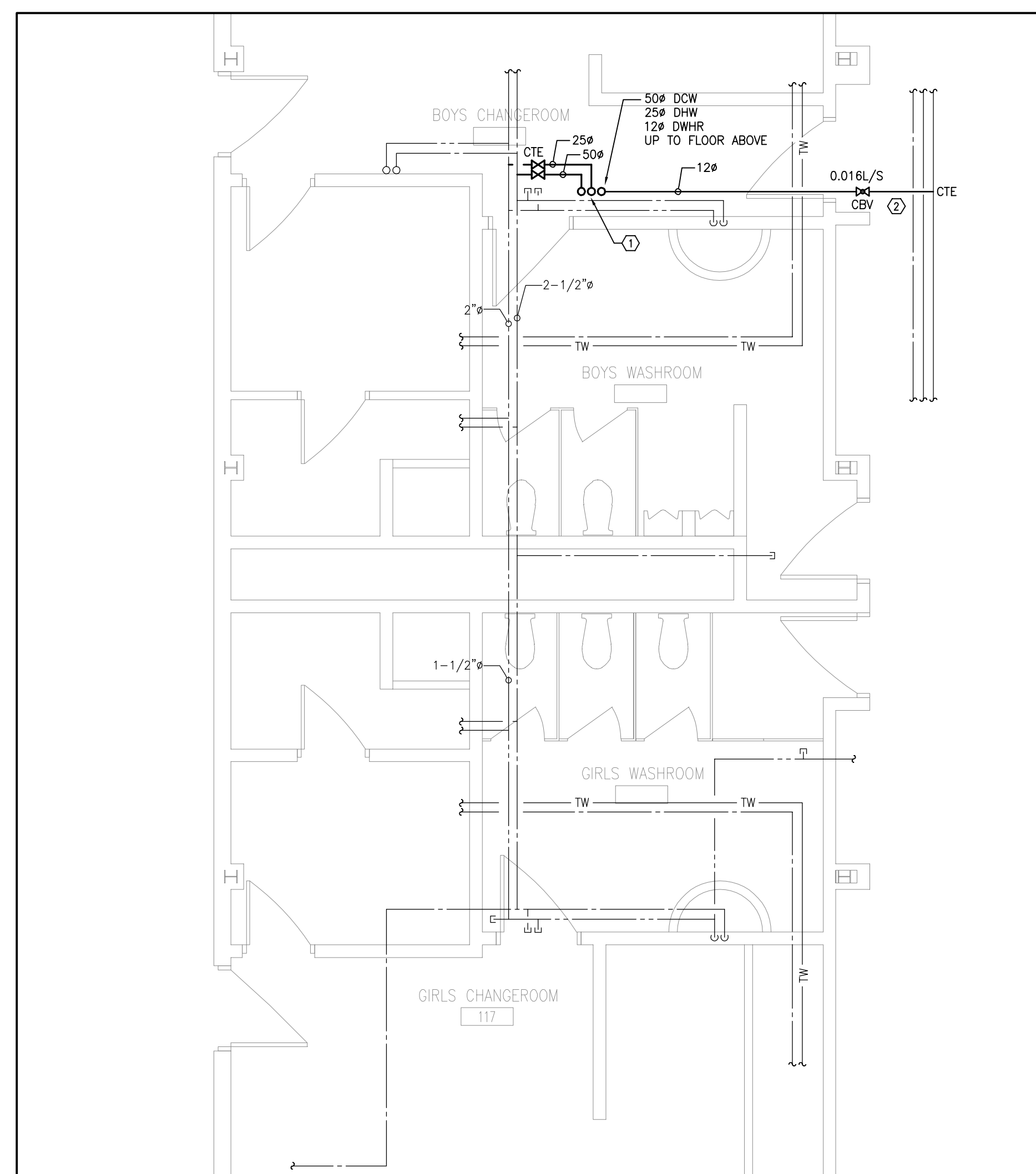


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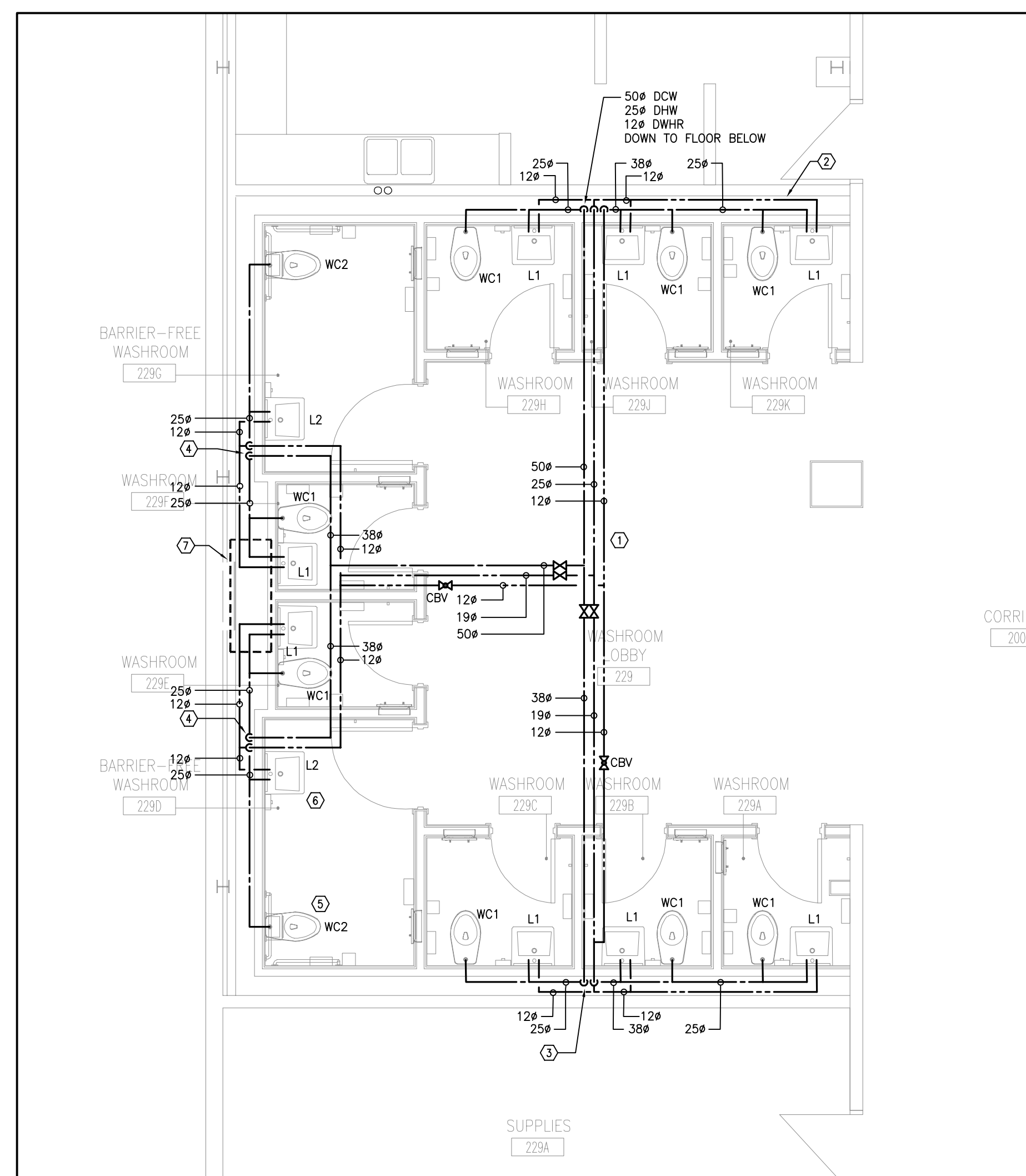
PROJECT NO: **23-165** DRAWING NO: **M-3.2**



1 PART FIRST FLOOR PLAN - PLUMBING NEW
 M-3.2 1:50

- PLUMBING DRAWING NOTES**
1. PROVIDE NEW 50# DCW, 25# DHW AND 12# DHWR UP TO FLOOR ABOVE. CONNECT TO MAIN IN CEILING SPACE WHERE SHOWN C/W ISOLATION VALVES. REFER TO NEW CONSTRUCTION PLANS FOR CONTINUATION OF PIPING.
 2. CONNECT NEW 12# DHWR TO EXISTING MAIN IN CORRIDOR C/W BALANCING VALVE. CONFIRM EXACT LOCATION OF EXISTING ON SITE. ENSURE ADEQUATE ACCESS FOR CBV.

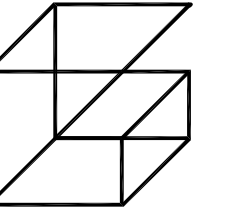
- GENERAL NOTES**
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 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



2 PART SECOND FLOOR PLAN - PLUMBING NEW
 M-3.2 1:50

- PLUMBING DRAWING NOTES**
1. NEW DCW/DHW/DHWR PIPING IN CEILING SPACE (TYPICAL).
 2. DISTRIBUTE DCW/DHW IN PIPE CHASE SERVING 3 X LAV AND 3 X WATER CLOSET.
 3. 3/8" DCW/1/2" DHW DOWN IN PIPE CHASE TO SERVE 3 X LAV AND 3 X WATER CLOSET.
 4. 3/8" DCW/1/2" DHW DOWN TO SERVE 2 X LAV AND 2 X WATER CLOSET.
 5. PROVIDE NEW WATER CLOSET AS SPECIFIED (TYPICAL).
 6. PROVIDE NEW LAVATORY AS SPECIFIED (TYPICAL).
 7. COORDINATE PIPING INSTALLATION WITH HVAC TRADES. ROUTE/OFFSET PIPING AS REQUIRED TO SUIT DUCTWORK RISERS.

- GENERAL NOTES**
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PORT PERRY HIGHSCHOOL

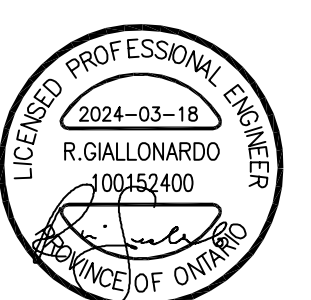
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DRAWING:

PART FIRST AND SECOND FLOOR PLAN - DRAINAGE DEMOLITION



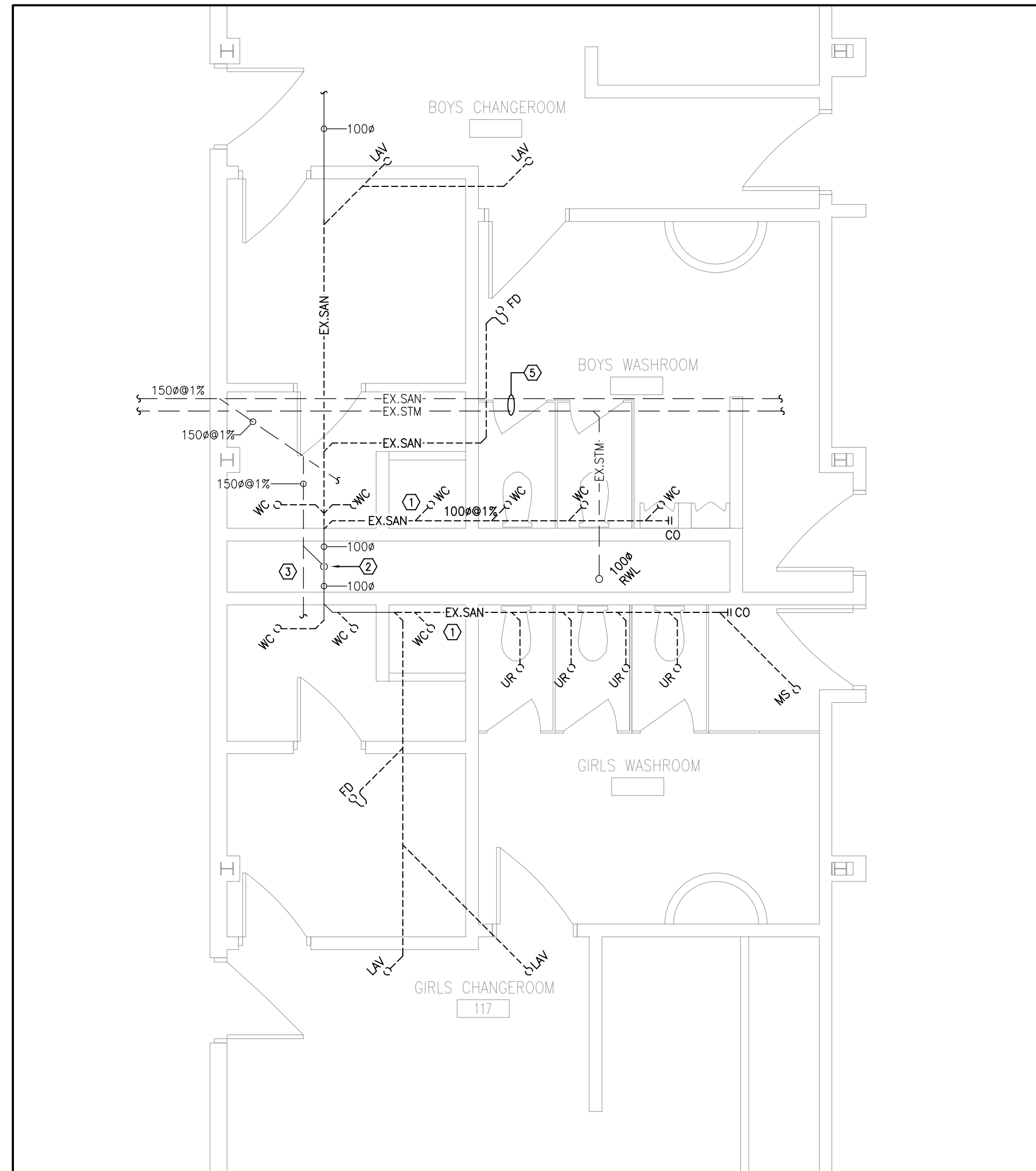
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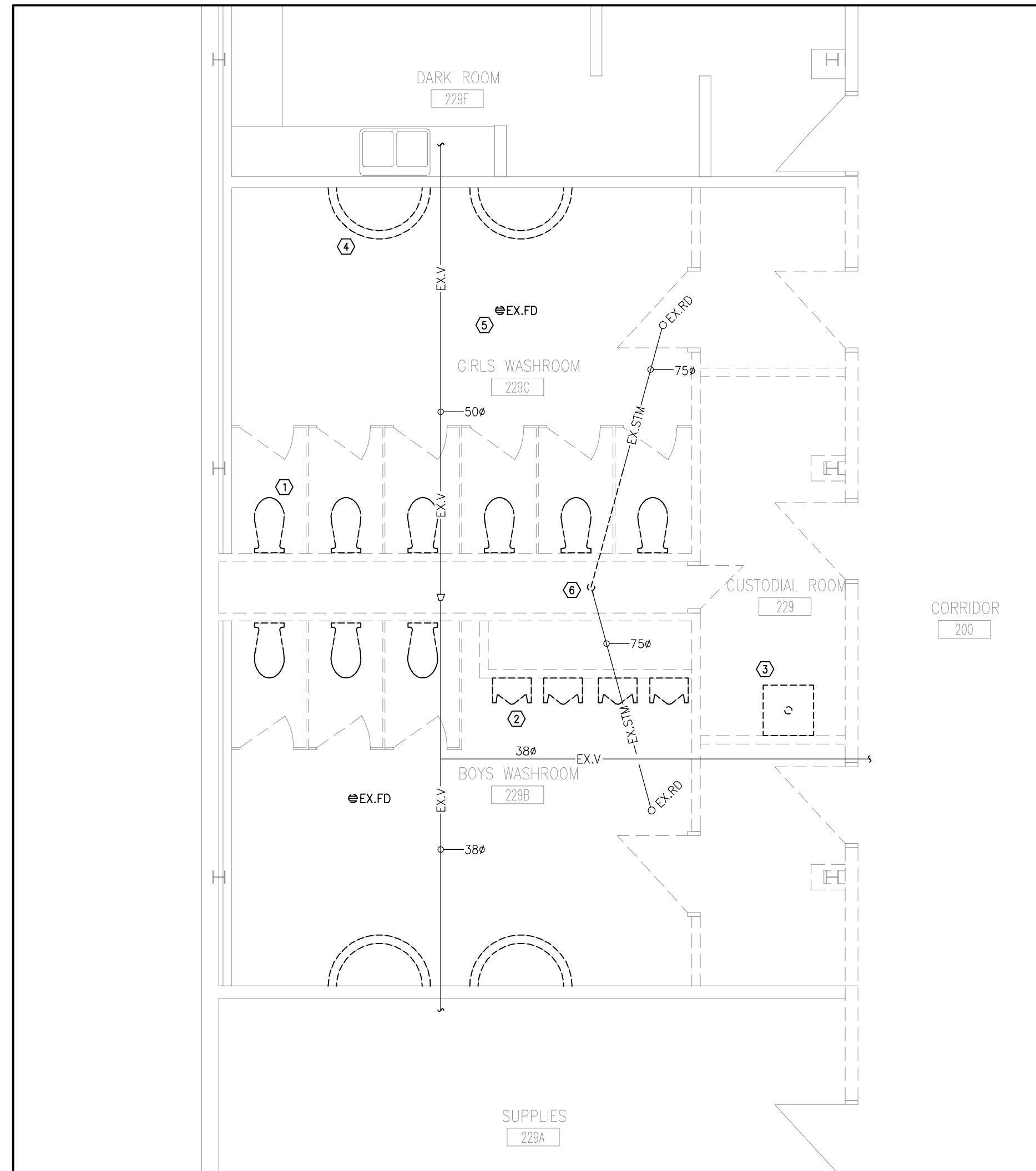
DRAWING NO:
M-3.3



1 PART FIRST FLOOR PLAN - DRAINAGE DEMOLITION
M-3.3 1:50

- DRAINAGE DRAWING NOTES**
- EXISTING SANITARY DRAINAGE PIPING WITHIN CEILING SPACE SERVING FIXTURES ABOVE TO BE REMOVED AND DISPOSED OF (TYPICAL).
 - EXISTING SANITARY STACK DOWN IN PIPE CHASE TO BE REMOVED BACK TO HIGH LEVEL. PREPARE FOR CONNECTION OF NEW STACK.
 - EXISTING BURIED SANITARY DRAINAGE PIPING TO REMAIN (TYPICAL).
 - EXISTING 100ø RWL FROM ABOVE TO BE REMOVED BACK TO HIGH LEVEL WITHIN PIPE CHASE. PREPARE FOR CONNECTION OF NEW RWL.
 - APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY AND STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION AND DIRECTION OF FLOW PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL CARRY SERVICES FOR SCOPING OF EXISTING UNDERGROUND DRAINAGE PIPING IN THEIR BASE BID.

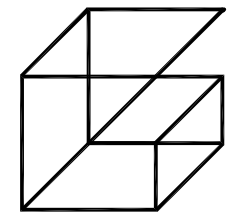
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 - PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
 - PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 - PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
 - PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
 - PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



2 PART SECOND FLOOR PLAN - DRAINAGE DEMOLITION
M-3.3 1:50

- DRAINAGE DRAWING NOTES**
- EXISTING WATER CLOSET TO BE REMOVED AND DISPOSED OF. REMOVE TOILET FLANGE AND DRAINAGE PIPING DOWN TO FLOOR BELOW. REMOVE ALL ASSOCIATED VENT PIPING IN PIPE CHASE BACK TO MAIN IN CEILING AND CAP (TYPICAL).
 - EXISTING URINAL TO BE REMOVED AND DISPOSED OF. REMOVE DRAINAGE PIPING DOWN TO FLOOR BELOW. REMOVE ALL ASSOCIATED VENT PIPING IN PIPE CHASE BACK TO MAIN IN CEILING AND CAP (TYPICAL).
 - EXISTING MOP SINK TO BE REMOVED AND DISPOSED OF. REMOVE DRAINAGE PIPING DOWN TO FLOOR BELOW. REMOVE ALL ASSOCIATED VENT PIPING IN WALL SPACE BACK TO MAIN IN CEILING AND CAP.
 - EXISTING WASH BASIN TO BE REMOVED AND DISPOSED OF. REMOVE SANITARY DRAINAGE ROUGH-IN AND CAP IN WALL SPACE (TYPICAL).
 - EXISTING FLOOR DRAIN TO BE REMOVED AND DISPOSED OF. REMOVE ASSOCIATED VENT PIPING BACK TO MAIN IN CEILING SPACE AND CAP (TYPICAL).
 - EXISTING 100ø STORM DRAINAGE PIPING DOWN IN PIPE CHASE TO BE REMOVED BACK TO WHERE SHOWN. CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF TEMPORARY STORM DRAINAGE DURING CONSTRUCTION.

- GENERAL NOTES**
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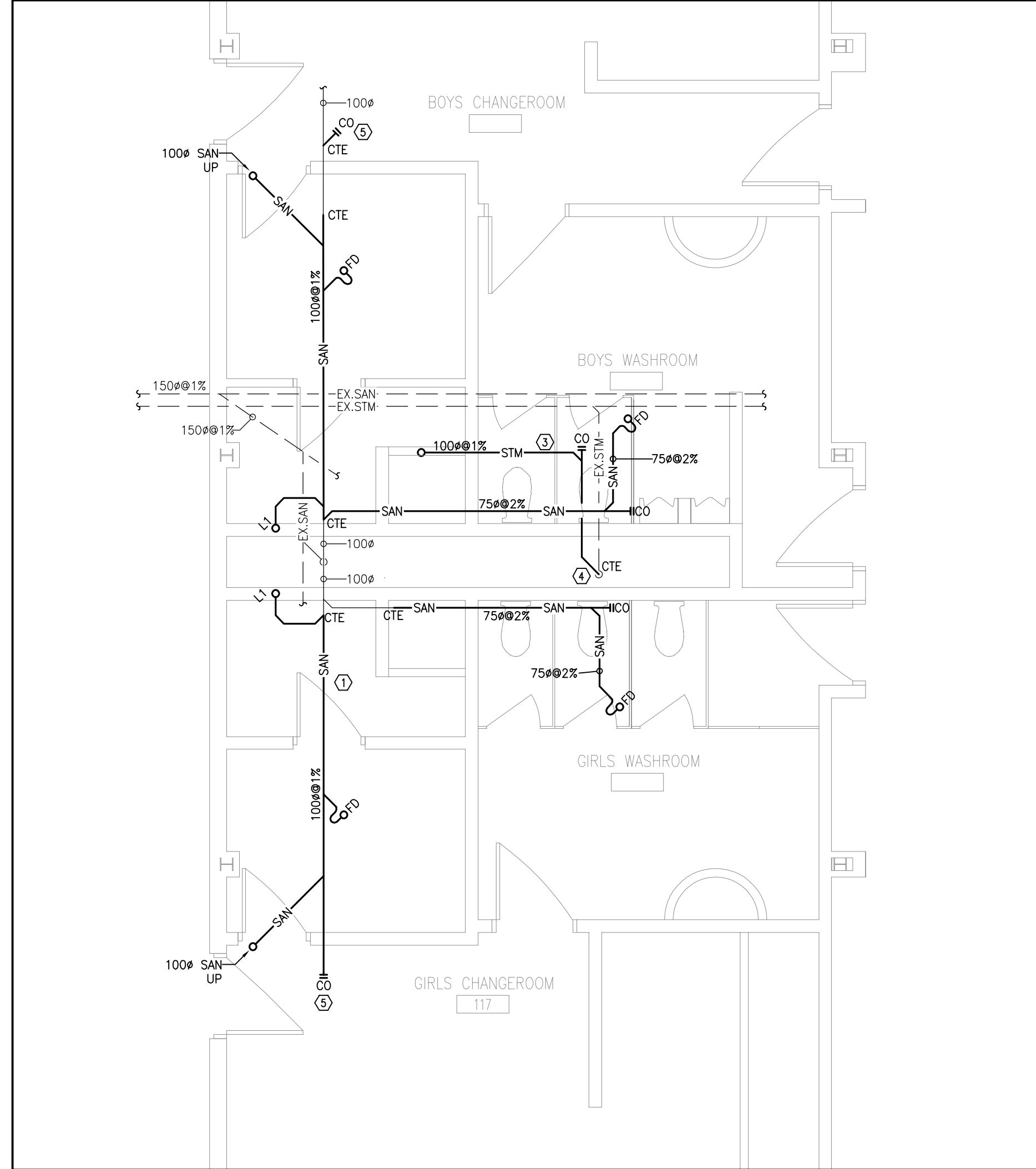


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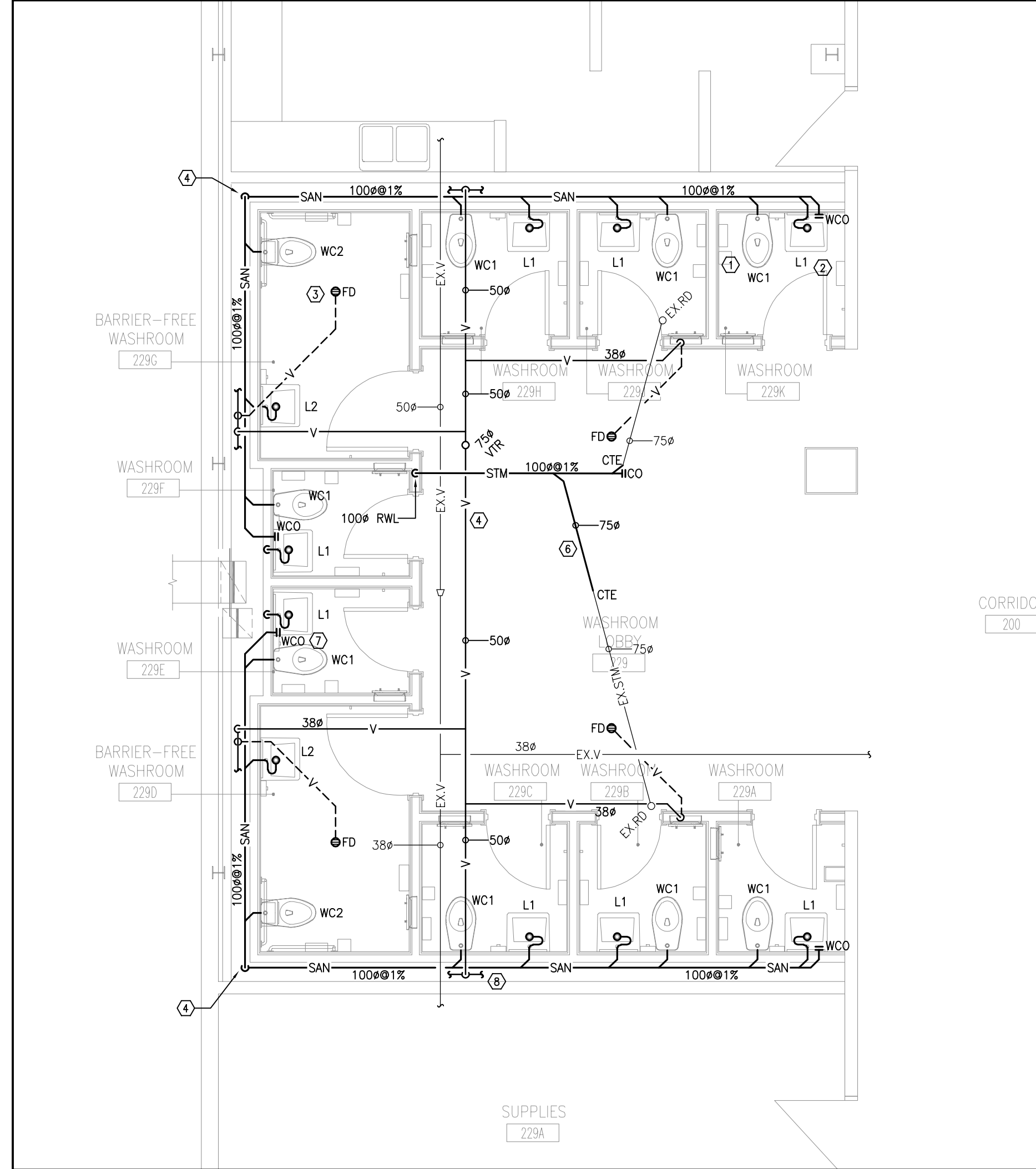
DRAWING:
PART FIRST AND SECOND FLOOR PLAN - DRAINAGE NEW



1 PART FIRST FLOOR PLAN - DRAINAGE NEW
M-3.4 1:50

- DRAINAGE DRAWING NOTES**
- 1 PROVIDE NEW SANITARY DRAINAGE PIPING IN CEILING SPACE SERVING FIXTURES ABOVE (TYPICAL).
 - 2 NEW 100mm SANITARY STACK DOWN IN PIPE CHASE. CONNECT TO EXISTING AT HIGH LEVEL WHERE SHOWN. PROVIDE ALL MEANS OF ACCESS TO CHASE AS REQUIRED TO CONNECT TO EXISTING PIPING.
 - 3 NEW 100mm STORM DRAINAGE PIPING IN CEILING SPACE.
 - 4 CONNECT NEW 100mm RWL TO EXISTING STACK AT HIGH LEVEL. PROVIDE ALL MEANS OF ACCESS TO CHASE AS REQUIRED TO CONNECT TO EXISTING PIPING.
 - 5 INSTALL CLEANOUT IN T-BAR CEILING FOR ACCESSIBILITY

- GENERAL NOTES**
1. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



2 PART SECOND FLOOR PLAN - DRAINAGE NEW
M-3.4 1:50

- DRAINAGE DRAWING NOTES**
- 1 PROVIDE NEW WATER CLOSET AS SPECIFIED. ROUTE NEW SANITARY DRAINAGE PIPING IN PIPE CHASE AS SHOWN (TYPICAL).
 - 2 PROVIDE NEW LAVATORY AS SPECIFIED. ROUTE NEW SANITARY DRAINAGE PIPING IN PIPE CHASE AS SHOWN (TYPICAL).
 - 3 PROVIDE NEW FLOOR DRAIN AS SPECIFIED (TYPICAL).
 - 4 100mm SANITARY DRAINAGE PIPING DOWN TO CEILING SPACE OF FLOOR BELOW.
 - 5 NEW VENT PIPING INSTALLATION IN CEILING SPACE. PROVIDE NEW 75mm VTR WHERE INDICATED.
 - 6 PROVIDE NEW 100mm STORM DRAINAGE PIPING IN CEILING SPACE. CONNECT TO EXISTING WHERE SHOWN.
 - 7 PROVIDE NEW WALL ACCESS CLEAN OUT AS SPECIFIED. FINAL LOCATION TO BE REVIEWED AND APPROVED BY ARCHITECT (TYPICAL).
 - 8 DISTRIBUTE VENT PIPING TO PLUMBING FIXTURES IN ACCORDANCE WITH THE ONTARIO BUILDING CODE.

- GENERAL NOTES**
1. ALL EXISTING SERVICES SHOWN ARE A GENERAL REPRESENTATION ONLY OF ACTUAL ONSITE CONDITIONS. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING SERVICES PRIOR TO CONSTRUCTION AND REPORT ALL DISCREPANCIES TO ENGINEER IN A TIMELY MANNER.
 2. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE NATIONAL PLUMBING CODE.
 3. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 4. PROVIDE TRAP PRIMING AND ASSOCIATED EQUIPMENT AS SPECIFIED AND/OR REQUIRED. ENSURE THAT TRAP PRIMER MECHANISM IS INSTALLED IN AN ACCESSIBLE LOCATION.
 5. PROVIDE APPROPRIATE MEANS FOR FIRESTOPPING FOR ALL PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES.
 6. PATCH ALL FLOOR/WALL PENETRATIONS FROM REMOVED PIPING/EQUIPMENT TO BASE BUILDING STANDARDS.



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