

CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR  
EEC SAINTE CROIX  
DAYCARE INTERIOR RENOVATIONS  
351 LAFONTAINE ROAD, TINY, ONTARIO

PROJECT NO: 2018-0011B  
DATE: JANUARY 2021

PROGRESS DATES:  
ISSUED FOR 66% DESIGN REVIEW: JUNE 08, 2018  
ISSUED FOR 99% DESIGN REVIEW: JUNE 22, 2018  
ISSUED FOR TENDER: JULY 5, 2018  
REISSUED FOR TENDER: OCTOBER 19, 2018  
ISSUED FOR 99% DESIGN REVIEW-SCOPE REDUCTION + LIFT: FEBRUARY 19, 2020  
ISSUED FOR REVISED PERMIT/TENDER: FEBRUARY 25, 2020  
ISSUED FOR RE-TENDER: JANUARY 11, 2021

PRIME CONSULTANT/ARCHITECT: LDM ARCHITECTS INC.  
STRUCTURAL ENGINEER: MAITLAND SPENCER P.ENG.  
MECHANICAL/ELECTRICAL ENGINEER: REGAL CONSULTING ENGINEERS INC.

## DRAWING LIST

## ARCHITECTURAL

- |        |  |
|--------|--|
| AS-1   | ARCHITECTURAL SITE PLAN  |
| A1-1   | EXISTING LAYOUT & KEY PLAN   |
| A1-2-1 | SELECTIVE DEMOLITION LAYOUTS (ROOMS 120 & 121)   |
| A1-2-2 | SELECTIVE DEMOLITION LAYOUTS (KITCHEN & STAGE)   |
| A1-3-1 | SELECTIVE NEW LAYOUTS (ROOMS 120 & 121)  |
| A1-3-2 | SELECTIVE NEW LAYOUTS (KITCHEN & STAGE)  |
| A1-4-1 | SELECTIVE REFLECTED CEILING PLANS, DEMOLITION LAYOUTS (ROOMS 120, 121, KITCHEN & WASHROOM) |
| A1-4-2 | SELECTIVE REFLECTED CEILING PLANS, NEW LAYOUTS (ROOMS 120, 121 & KITCHEN & LAUNDRY ROOM.)  |
| A2-1   | INTERIOR SECTION/ELEVATIONS  |
| A2-2   | INTERIOR SECTION/ELEVATIONS  |
| A2-3   | MILLWORK SECTIONS  |
| A2-4   | DOOR DETAILS/SCHEDULES   |

## STRUCTURAL

- S-1 PARTIAL ROOF FRAMING AND GROUND FLOOR PLANS, DETAILS & GENERAL NOTES

## MECHANICAL

- M0.0 MECHANICAL LEGENDS, NOTES, DRAWING LIST & SCHEDULES  
M0.1 KEY PLAN  
M1.0D DEMOLITION DRAINAGE AND PLUMBING FLOOR PLAN  
M2.0D DEMOLITION HVAC FLOOR PLAN  
M1.0 NEW DRAINAGE FLOOR PLAN  
M2.0 NEW PLUMBING FLOOR PLAN  
M3.0 NEW HVAC FLOOR PLAN  
M4.0 MECHANICAL DETAILS  
M5.0 MECHANICAL SPECIFICATIONS-1  
M5.1 MECHANICAL SPECIFICATIONS-2

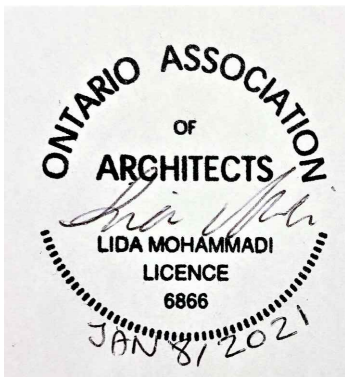
## ELECTRICAL

- E0.0 ELECTRICAL LEAD SHEET
- E1.0 ELECTRICAL KEY PLAN
- E2.0 DEMOLITION ELECTRICAL FLOOR PLAN
- E2.1 EXISTING FIRE ALARM & LIFE SAFETY FLOOR PLAN
- E3.0 PROPOSED POWER FLOOR PLAN
- E3.1 PROPOSED LIGHTING FLOOR PLAN
- E3.2 PROPOSED FIRE ALARM FLOOR PLAN
- E3.3 PROPOSED SAFETY & FIRE ALARM FLOOR PLAN
- E4.0 ELECTRICAL SCHEDULE & SLD
- E5.0 ELECTRICAL SPECIFICATIONS

<b>Name of Project:</b> <b>CONSEIL SCOLAIRE CATHOLIQUE MONAVERN, EEC SAINTE CROIX</b> <b>DAYCARE INTERIOR RENOVATIONS</b>					<b>Date:</b> July 2018	
<b>Name of Practice:</b> <b>LDI ARCHITECTS INC.</b> <b>416-303-8709</b> <b>CERTIFICATE OF PRACTICE NO. 5734</b>					<b>Building Code Reference <sup>1</sup></b>	
<b>Ontario Building Code Data Matrix</b> <b>Part 11 – Renovation of Existing Building</b>						
11.00	Building Code Version:	<input checked="" type="checkbox"/> O_Reg_332/12		Last Amendment		<input checked="" type="checkbox"/> O_Reg_191/14
11.01	Project Type:	<input type="checkbox"/> Addition <input type="checkbox"/> Renovation <input type="checkbox"/> Addition and renovation <input type="checkbox"/> Change of use				
Description: interior renovations to two existing classrooms to turn them into daycares as toddlers Room & Pre-School Room. Adding office inside Pre-school Room. Upgrading Daycare Entrances with Barrier-Free access, upgrading ventilation of Daycare rooms by adding new cooling system including new opening on the exterior wall for lower. Upgrading Fire Alarm system of the entire school. Renovations to the existing kitchen and exhaust, providing plumbing and exhaust for new Washer & Dryer. Adding new Wheel chair lift for barrier-free access to the existing stage including barrier-free doors to that area.						
11.02	Major Occupancy Classification	<input type="checkbox"/> Assembly A2		<input type="checkbox"/> Use Schools		3121 (1)
11.03	Superimposed Major Occupancies:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes				
11.04	Building Area (m <sup>2</sup> )	Description:		Existing	New	Total
		Ground Floor		2107	0	2107
		Total		2107	0	2107
11.05	Building Height	<input type="checkbox"/> 1 Storeys above grade <input type="checkbox"/> 0 Storeys below grade				
11.06	Number of Streets/ Firefighter access	<input type="checkbox"/> 1 street(s)				
11.07	Building Size	<input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large				
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: <input type="checkbox"/> 6 Hazard Index: <input type="checkbox"/> 6 Importance Category: <input type="checkbox"/> Low <input type="checkbox"/> Normal <input type="checkbox"/> High <input type="checkbox"/> Post-disaster				
11.09	Renovation type:	<input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation				
11.10	Occupant Load	As per original Design of the building				
11.11	Plumbing Fixture Requirements	Design for 39 children, fixtures required 4, proposed 4				
11.12	Barrier-free Design:	As per existing, No change				
11.13	Reduction in Performance Level:	Structural: <input type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input type="checkbox"/> No <input type="checkbox"/> Yes				
11.14	Compensating Construction	<input type="checkbox"/> No <input type="checkbox"/> Yes Structural: <input type="checkbox"/> No <input type="checkbox"/> Yes Increase in occupant load: <input type="checkbox"/> No <input type="checkbox"/> Yes Change of major occupancy: <input type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input type="checkbox"/> No <input type="checkbox"/> Yes Sewage systems: <input type="checkbox"/> No <input type="checkbox"/> Yes Extension of combustible construction: <input type="checkbox"/> No <input type="checkbox"/> Yes				
11.15	Compliance Alternatives Proposed	<input type="checkbox"/> No <input type="checkbox"/> Yes				

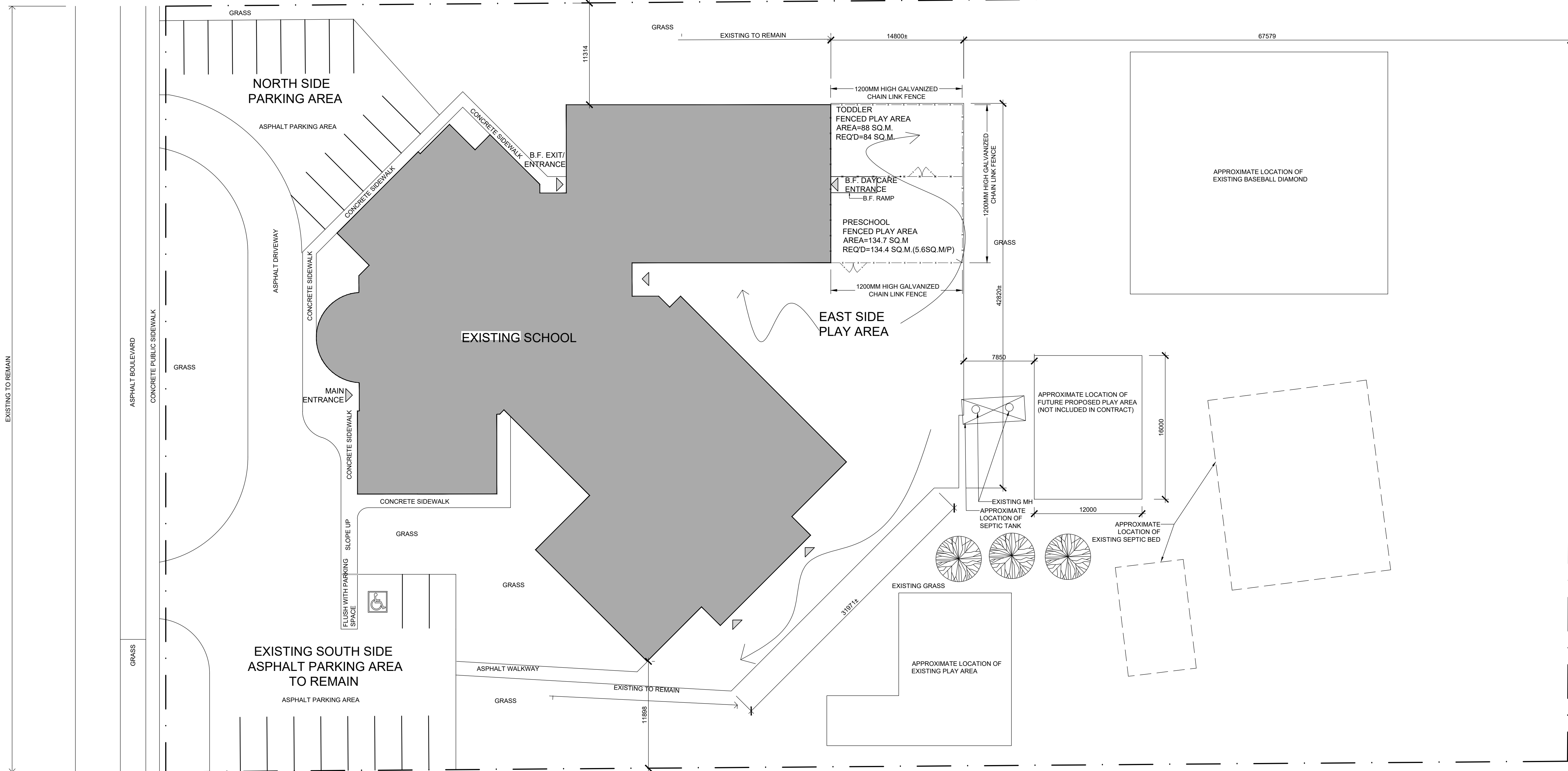
<sup>1</sup> All references are to Division B of the OBC, unless preceded by [A] for Division A and [C] for Division C.

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REGAL CONSULTING ENGINEERS INC.  
2828 Kingsway Drive, Suite 201, Oakville, Ontario L6J 7M2  
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# JANUARY 2021

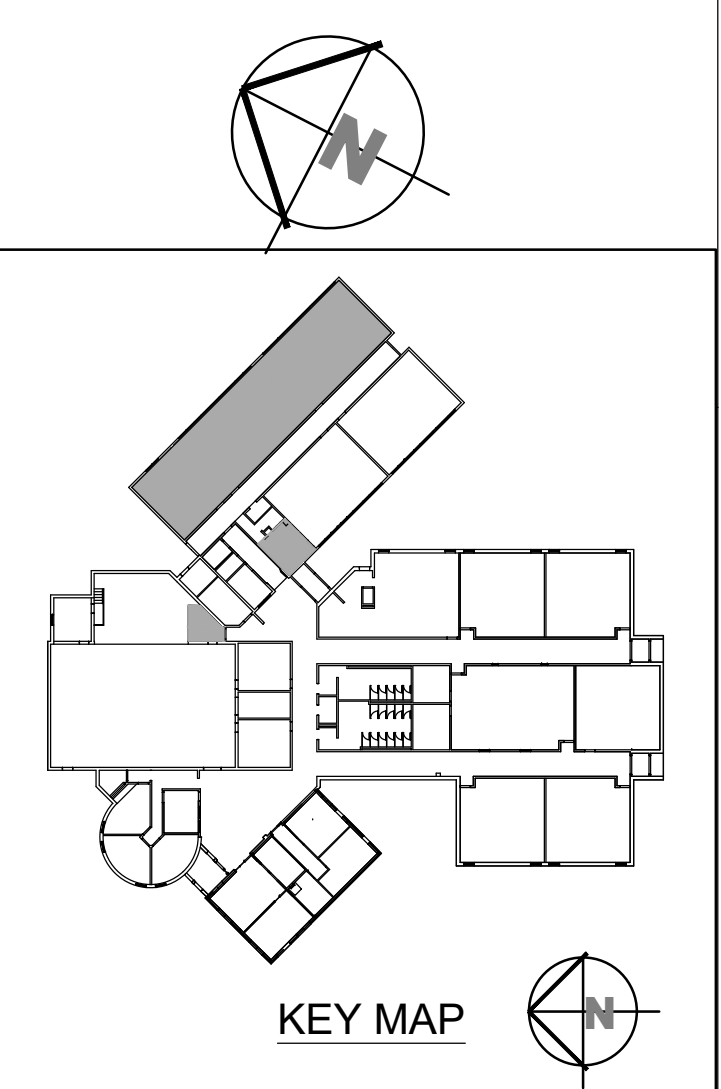


**NOTES**

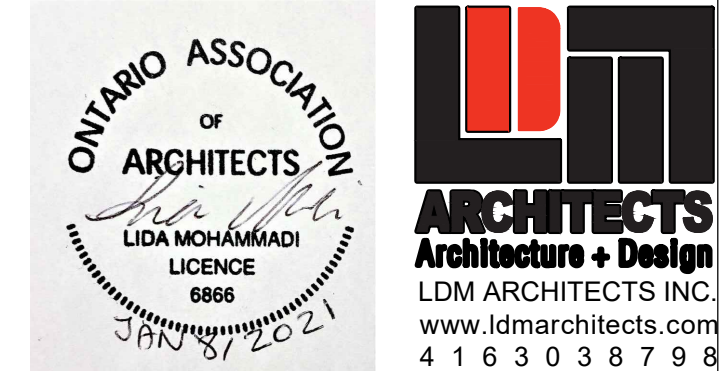
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- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
- DO NOT SCALE DRAWINGS
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

**LEGEND**

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



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ISSUED FOR PERMIT/TENDER	FEB25, 2020
RESUBMITTED FOR TENDER	OCT 09, 2018
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EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



SITE PLAN

AS-1

AS NOTED  
MAY 2018

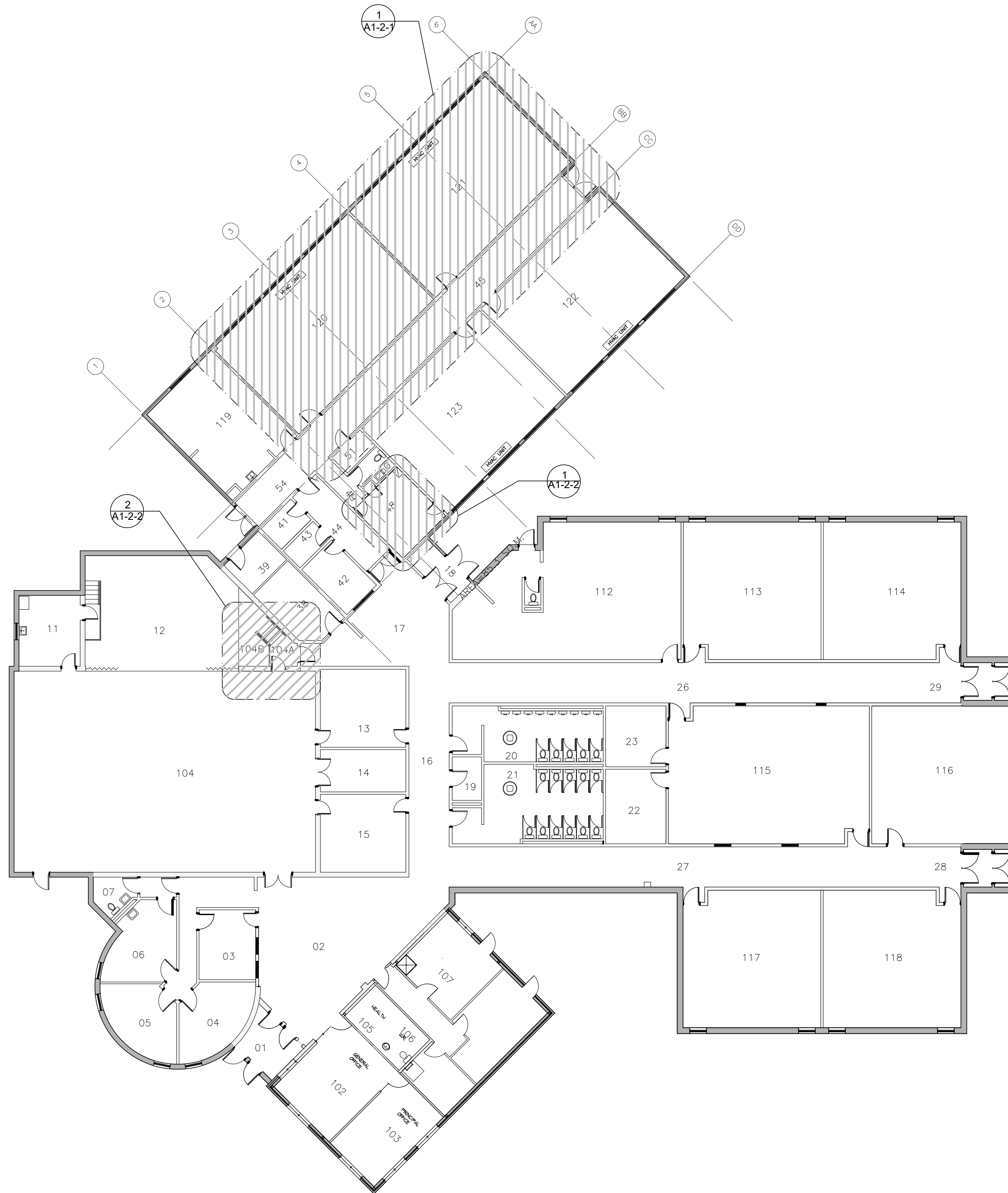
2018-11B

1 SITE PLAN  
AS-1 SCALE 1:250 NEW PLAY AREA & ASPHALT

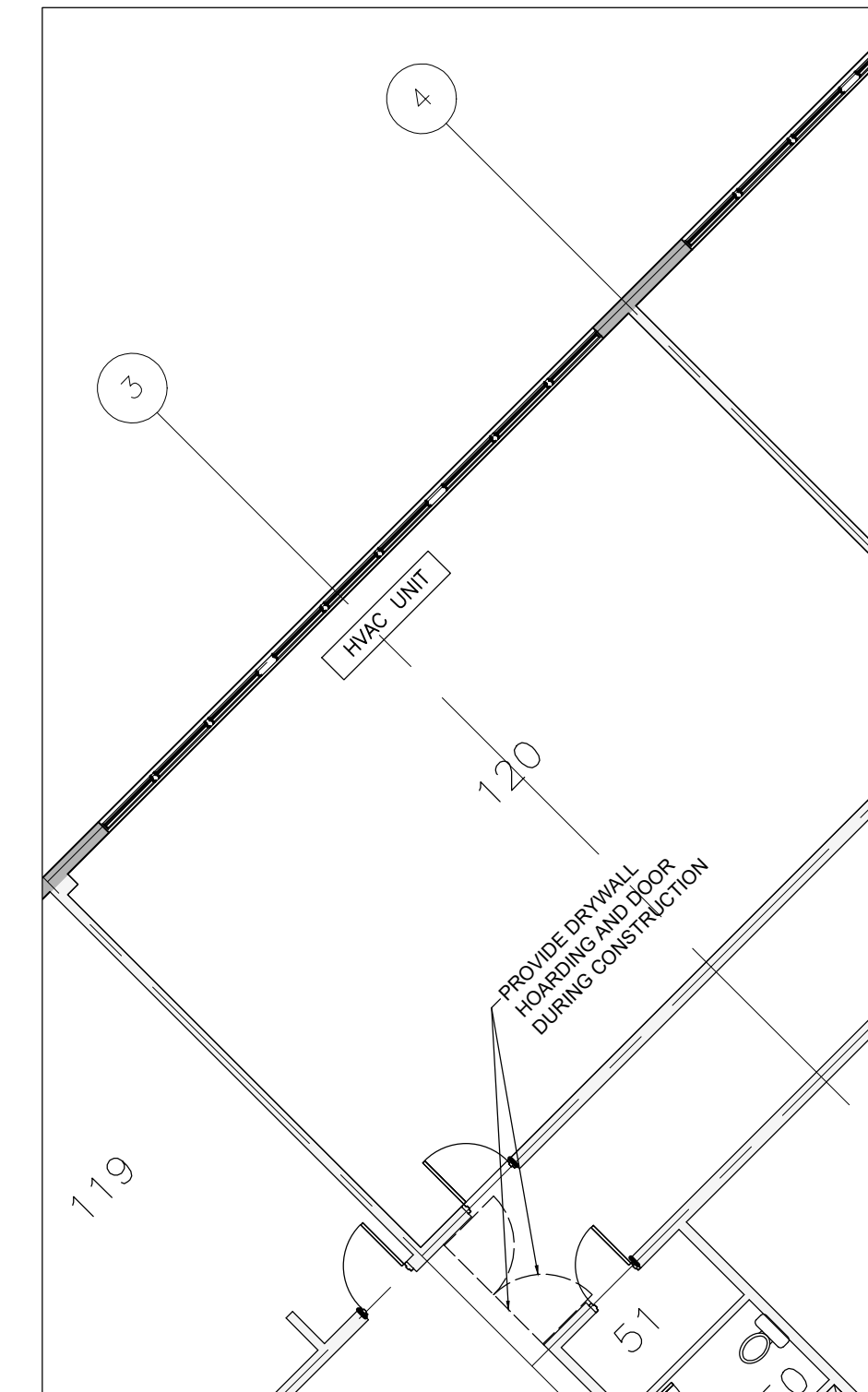
NOTE  
SITE PLAN AND INFORMATION BASED ON "AS-BUILT DRAWINGS"  
PROVIDED BY:  
"MCKNIGHT, CHARRON-LAUREN INC. ARCHITECTS", DATED DECEMBER 2009.  
LOCATION OF ITEMS SHOWN ARE TO BE CONSIDERED APPROXIMATE.  
CONFIRM ACTUAL LOCATIONS, DIMENSIONS AND CONDITIONS ON SITE.  
NUMBER OF FLOORS ABOVE GROUND: 1  
NUMBER OF FLOORS BELOW GROUND: 0  
MAXIMUM NUMBER OF OCCUPANTS(2018): 100  
NON- SPRINKLERED BUILDING, COMBUSTIBLE

SITE INFORMATION  
NUMBER OF CLASSROOMS: 11 (NO.)  
SIZE OF GYM: 223 (SQ.M.)  
NUMBER OF PARKING SPACES:  
EXISTING: 26  
REQUIRED: 59  
NUMBER OF ACCESSIBLE PARKING SPACE:  
EXISTING: 1  
REQUIRED: 2  
SIZE OF PARKING:  
EXISTING: 3MX6M & 2.7MX6M  
REQUIRED: 3MX8M  
SIZE OF ACCESSIBLE PARKING: 5MX6M





1 KEY PLAN  
A1-1 SCALE 1:150 EXISTING LAYOUT



2 HOARDING LAYOUT  
A1-1 SCALE 1:100

#### GENERAL NOTES

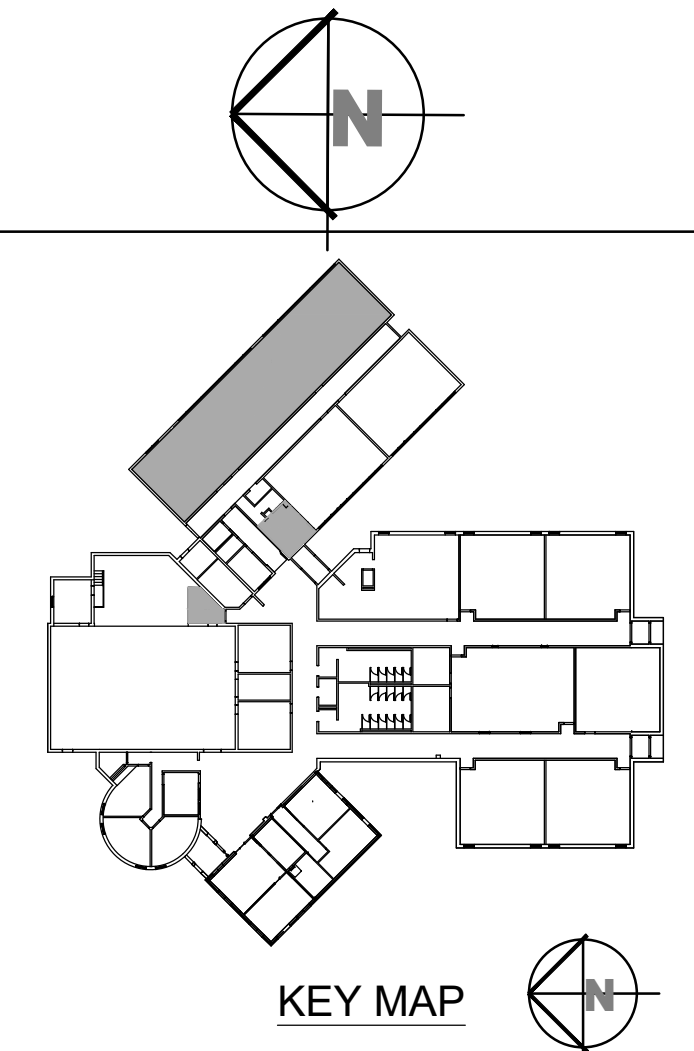
1. ALL DIMENSIONS ARE TAKEN TO/FROM FACE OF EXISTING WALLS TO/FROM FACE OF PROPOSED FRAMING.
  2. REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR MORE SPECIFIC INFORMATION.
  3. COORDINATE WITH MECHANICAL/ ELECTRICAL ANY CUTTING AND PATCHING OF EXISTING WALLS AS REQUIRED. PATCH AND MAKE GOOD WALL AFTER SERVICE INSTALLATION.
  4. PATCH AND MAKE GOOD ALL GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN. PREPARE TO RECEIVE PRIMER AND PAINT.
  5. MOVING OF FURNITURE AND EQUIPMENT TO BE COORDINATED BY CLIENT, UNLESS OTHERWISE INDICATED ON DRAWINGS.
  6. UNLESS NOTED OTHERWISE ALL MILLWORKS BE CONSTRUCTED OF 3/4" SPLY VENEER CORE PLYWOOD.
  7. UNLESS NOTED OTHERWISE ALL CABINETS AND SHELVING SURFACES SHALL BE HARDWOOD VENEER WITH SOLID WOOD EDGE BANDING ON ALL EXPOSED EDGES. GABLE CLOSURE W/MATCHING VENEER CONTINUOUS AT ALL EXPOSED FACES.
  8. ALL DIMENSIONS TO BE SITE VERIFIED BEFORE FABRICATION.
  10. UNLESS NOTED OTHERWISE KEEP ALL WALL COVERINGS, FLOOR SURFACES/ BASES AND CEILINGS AS PER EXISTING.
  9. PATCH AND MAKE GOOD WALLS/FLOORS/CEILINGS WHERE EXISTING WALL/BASE HAS BEEN REMOVED UNLESS NOTED.
  10. UNLESS NOTED OTHERWISE NEW MATERIAL TO PATCH/ADD SHOULD MATCH EXISTING.
  13. WHERE NEW PLUMBING FIXTURES ARE SHOWN, REMOVE DRYWALL AS REQ'D AND REPAIR AFTER PLUMBING COMPLETED.
  11. CUT CONCRETE SLAB/ FLOORING FOR NEW PLUMBING AS REQ'D. REFER TO MECHANICAL DRAWINGS.
  12. PROVIDE DUST HOARDING FOR EACH AREA OF WORK DURING DEMOLITION AND CONSTRUCTION.
  13. CO-ORDINATE AS REQUIRED FOR RELOCATION OF OVER HEAD MECHANICAL PIPES TO PASS ABOVE THE CEILING.
  14. ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS W/ULC RATED FIRE STOPPING.
- REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE DIFFUSERS, GRILLES AND LOUVERS.

#### NOTES

- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
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#### LEGEND

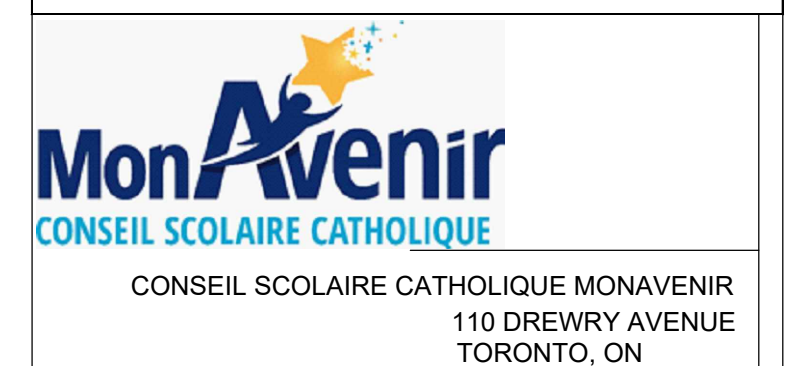
- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



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ISSUED FOR CLIENT REVIEW	MAY 14, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



EXISTING LAYOUT & KEY PLAN

A1-1

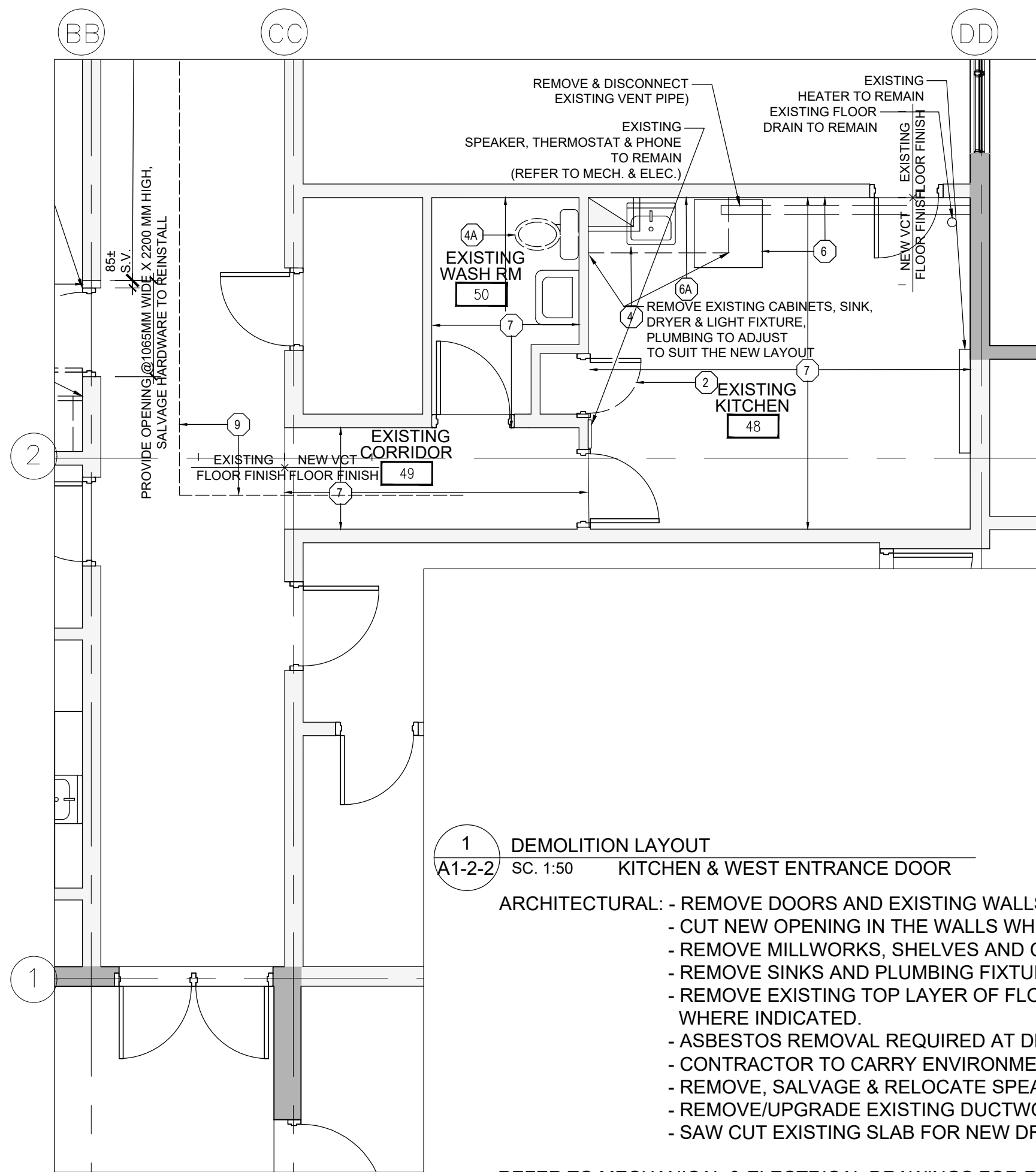
AS NOTED  
MAY 2018

2018-11B



2018-11E





1 DEMOLITION LAYOUT  
A1-2-2 SC. 1:50 KITCHEN & WEST ENTRANCE DOOR

- ARCHITECTURAL: - REMOVE DOORS AND EXISTING WALLS WHERE INDICATED.  
- CUT NEW OPENING IN THE WALLS WHERE INDICATED.  
- REMOVE MILLWORKS, SHELVES AND CABINETS WHERE INDICATED.  
- REMOVE SINKS AND PLUMBING FIXTURES WHERE INDICATED.  
- REMOVE EXISTING TOP LAYER OF FLOORING C/W WITH BASE, CLEAN TO REACH TO SLAB WHERE INDICATED.  
- ASBESTOS REMOVAL REQUIRED AT DESIGNATED AREAS (REFER TO DSS REPORT).  
- CONTRACTOR TO CARRY ENVIRONMENTAL CONSULTANT FOR ABATEMENT PROCEDURES.  
- REMOVE, SALVAGE & RELOCATE SPEAKER, THERMOSTAT & PHONE WHERE INDICATED.  
- REMOVE/UPGRADE EXISTING DUCTWORK IN KITCHEN.  
- SAW CUT EXISTING SLAB FOR NEW DRAIN PIPE WHERE INDICATED.

REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR RELATED SCOPE.

## GENERAL NOTES

- ALL DIMENSIONS ARE TAKEN TO/FROM FACE OF EXISTING WALLS TO/FROM FACE OF PROPOSED FRAMING.
- REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR MORE SPECIFIC INFORMATION.
- COORDINATE WITH MECHANICAL/ ELECTRICAL ANY CUTTING AND PATCHING OF EXISTING WALLS AS REQUIRED. PATCH AND MAKE GOOD WALL AFTER SERVICE INSTALLATION.
- PATCH AND MAKE GOOD ALL GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN. PREPARE TO RECEIVE PRIMER AND PAINT.
- MOVING OF FURNITURE AND EQUIPMENT TO BE COORDINATED BY CLIENT, UNLESS OTHERWISE INDICATED ON DRAWINGS.
- UNLESS NOTED OTHERWISE ALL MILLWORKS BE CONSTRUCTED OF 3/4" SPLY VENEER CORE PLYWOOD.
- UNLESS NOTED OTHERWISE ALL CABINETS AND SHELVING SURFACES SHALL BE HARDWOOD VENEER WITH SOLID WOOD EDGE BANDING ON ALL EXPOSED EDGES. GABLE CLOSURE W/MATCHING VENEER CONTINUOUS AT ALL EXPOSED FACES.
- ALL DIMENSIONS TO BE SITE VERIFIED BEFORE FABRICATION.
- UNLESS NOTED OTHERWISE KEEP ALL WALL COVERINGS, FLOOR SURFACES/ BASES AND CEILINGS AS PER EXISTING.
- PATCH AND MAKE GOOD WALLS/FLOORS/CEILINGS WHERE EXISTING WALL/BASE HAS BEEN REMOVED UNLESS NOTED.
- UNLESS NOTED OTHERWISE NEW MATERIAL TO PATCH/ADD SHOULD MATCH EXISTING.
- WHERE NEW PLUMBING FIXTURES ARE SHOWN, REMOVE DRYWALL AS REQ'D AND REPAIR AFTER PLUMBING COMPLETED.
- CUT CONCRETE SLAB/ FLOORING FOR NEW PLUMBING AS REQ'D. REFER TO MECHANICAL DRAWINGS.
- PROVIDE DUST HOARDING FOR EACH AREA OF WORK DURING DEMOLITION AND CONSTRUCTION.
- CO-ORDINATE AS REQUIRED FOR RELOCATION OF OVER HEAD MECHANICAL PIPES TO PASS ABOVE THE CEILING.
- ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS W/ULC RATED FIRE STOPPING. GRILLES AND LOUVERS.

REFER TO MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF THE DIFFUSERS,

## DEMOLITION NOTES

NOTE: REFER TO DEMO NOTES AS IDENTIFIED ON EACH DRAWING. ALL DEMO NOTES MIGHT NOT APPEAR ON EVERY DRAWING.

- REMOVE EXISTING WALL, FRAMING TO U/S OF SLAB.
- REMOVE EXISTING WALL, FRAMING TO U/S OF SLAB.
- REMOVE EXISTING DOOR, FRAME AND HARDWARE, SALVAGE & DELIVER TO THE OWNER.
- REMOVE EXISTING DOOR AND HARDWARE, SALVAGE TO REINSTALL OPPOSITE SIDE/SWING AS SHOWN.
- REMOVE EXISTING CABINETS, SHELVES AND MILLWORK TO REPLACE WITH NEW ONES. (RELOCATE EXISTING OUTLETS TO SUIT NEW MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL))
- REMOVE EXISTING SHELF AND SUPPORT. FINISH EXPOSED SURFACE OF REMAINING W/ ABUSE & MOLD RESISTANT TYPE "X" DRYWALL.
- REMOVE EXISTING TACK BOARDS, SALVAGE TO REFINISH AND REINSTALL WHERE INDICATED, ADJUST TO SUIT TO NEW LAYOUT.
- CAP EXISTING UNUSED ELECTRICAL DEVICES, SPEAKERS AND FIRE ALARM TO PROVIDE WITH UPGRADED ONES (REFER TO ELECTRICAL).
- REMOVE EXISTING CABINETS, SHELVES AND MILLWORK, SALVAGE TO REPLACE WITH NEW ONES. ALL MILLWORKS TO DELIVER TO THE OWNER. (RELOCATE EXISTING OUTLETS TO SUIT NEW MILLWORK/LAYOUT AS REQ'D. (REFER TO ELECTRICAL))
- REMOVE EXISTING CABINETS, SINK AND FAUCET, CAP DRAIN, DISCONNECT PLUMBING (REFER TO MECHANICAL)
- REMOVE EXISTING PLUMBING FIXTURE, CAP DRAIN, DISCONNECT PLUMBING, PREPARE FOR INSTALLATION OF NEW WASHER & DRYER.
- REMOVE & SAVAGE LIGHT FIXTURES, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL).
- DISCONNECT & REMOVE VENT PIPE AND WALL HUNG DRYER, PREPARE WALL FOR NEW KITCHEN CABINETS. (REFER TO MECHANICAL)
- REMOVE EXISTING LIGHT FIXTURE, CAP EXISTING UNUSED ELECTRICAL SERVICES AND PROVIDE NEW OUTLETS (POWER, DATA, VOICE) TO SUIT NEW LAYOUT AS REQ'D. (REFER TO ELECTRICAL).
- REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH, (FRAMING ASSUMED WOODEN- CONTRACTOR TO CONFIRM). REFER TO DSR REPORT FOR ASBESTOS REMOVAL.
- REMOVE AND SALVAGE EXISTING STAIRS & RAILING TO REINSTALL.
- REMOVE EXISTING TOP LAYER OF FLOORING C/W WITH BASE, CLEAN TO REACH TO SLAB OR UNDERLAYMENT ASBESTOS REMOVAL AS REQ'D. CONTRACTOR TO CARRY ENVIRONMENTAL CONSULTANT FOR ABATEMENT PROCEDURES.
- REMOVE EXISTING FLOORING C/W FRAMING UNDERNEATH TO REACH TO SLAB.
- CUT SLAB TO 3" DEEP FOR LIFT PIT, PREPARE FOR INSTALLATION OF VERTICAL WHEELCHAIR LIFT (DIMENSIONS TO CONFIRM W/MANUFACTURER)
- SAW CUT EXISTING SLAB FOR NEW DRAIN PIPE (REFER TO MECHANICAL).

NOTE: WHERE REQUIRED:

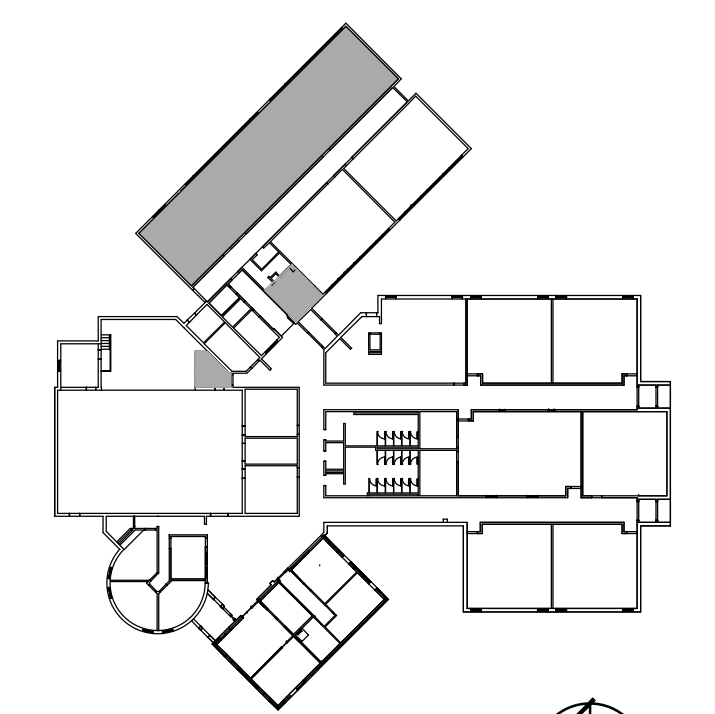
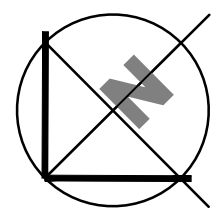
- PROVIDE SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL.
- REMOVE AND DISPOSE OF ALL DOORS, PARTITIONS AND ACCESSORIES WHERE INDICATED.
- CAP ALL EXISTING ELECTRICAL SERVICES AS REQ'D. (REFER TO ELECTRICAL)
- CAP DRAIN/DISCONNECT PLUMBING WHERE INDICATED (REFER TO MECHANICAL).
- REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR REMOVAL OF MECH/ELEC. ITEMS.
- REMOVAL AND RELOCATION OF EXISTING CABINETS, BENCHES, TABLES AND FURNITURE TO CO-ORDINATE WITH THE OWNER.

## NOTES

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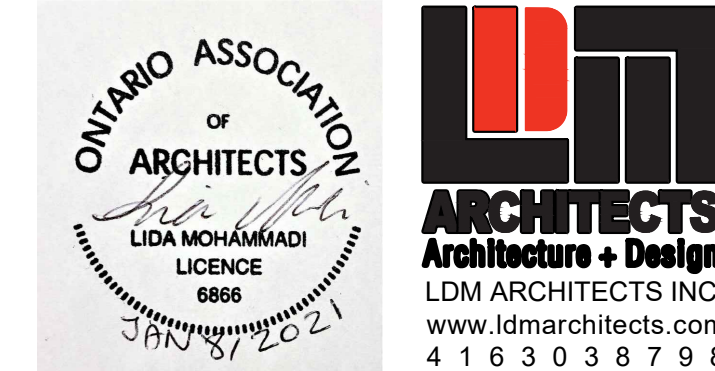
## LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS

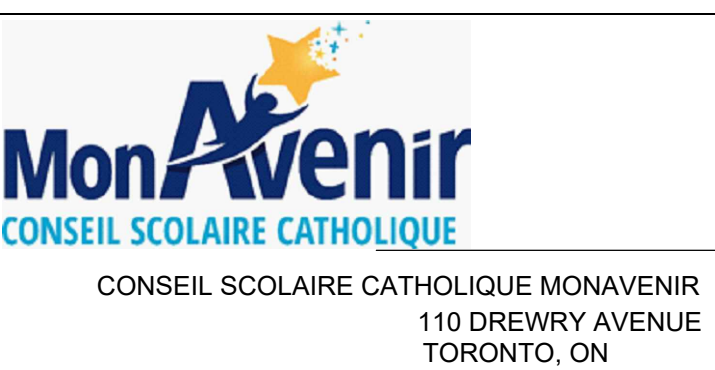


KEY MAP

ISSUED FOR RE-TENDER	JAN11, 2021
ISSUED FOR PERMIT/TENDER	FEB25, 2020
SCOPE REDUCTION-CLIENT REVIEW	APR26, 2019
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EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



SELECTIVE DEMOLITION LAYOUTS  
KITCHEN & STAGE

A1-2-2

AS NOTED  
MAY 2018

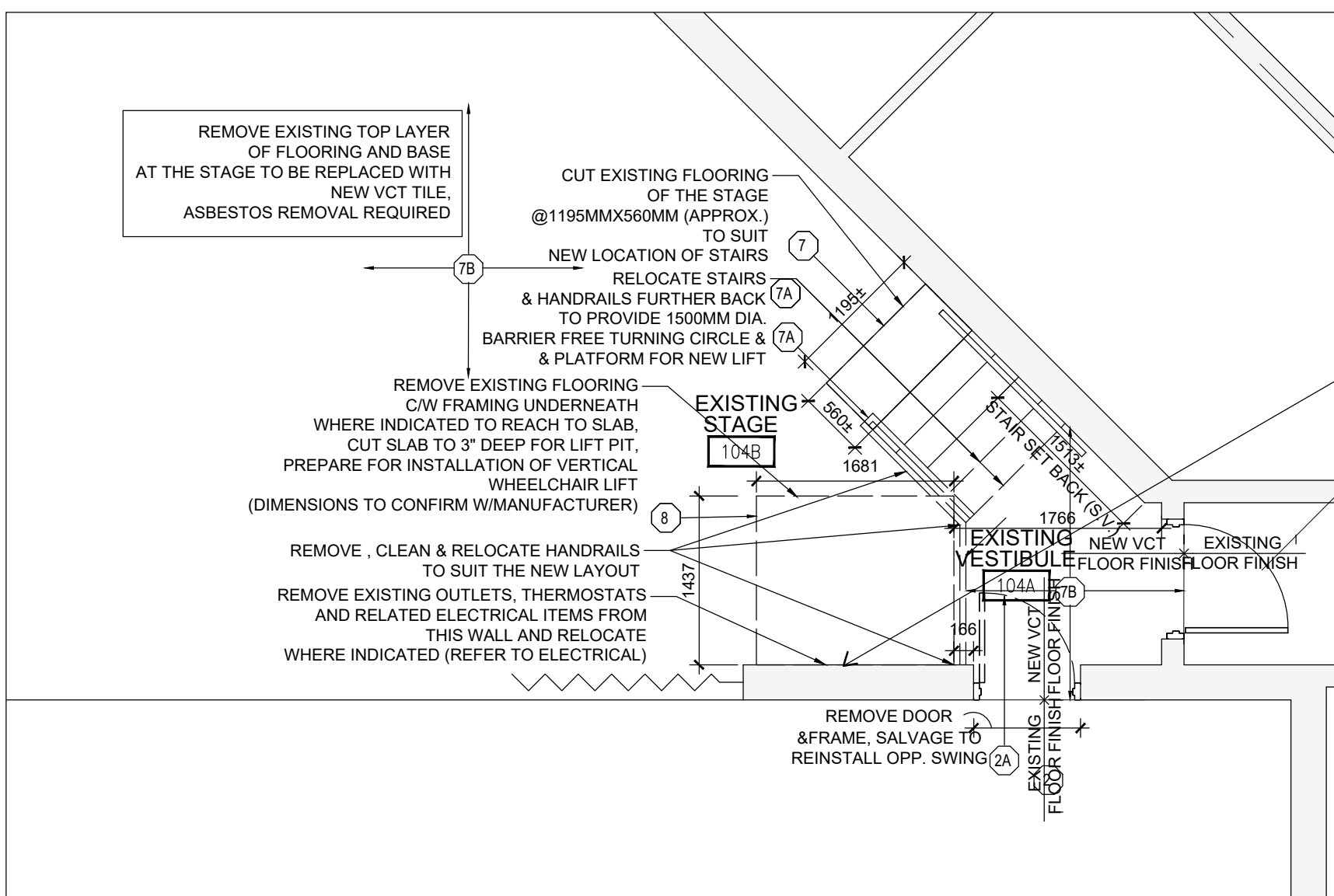
2018-11B



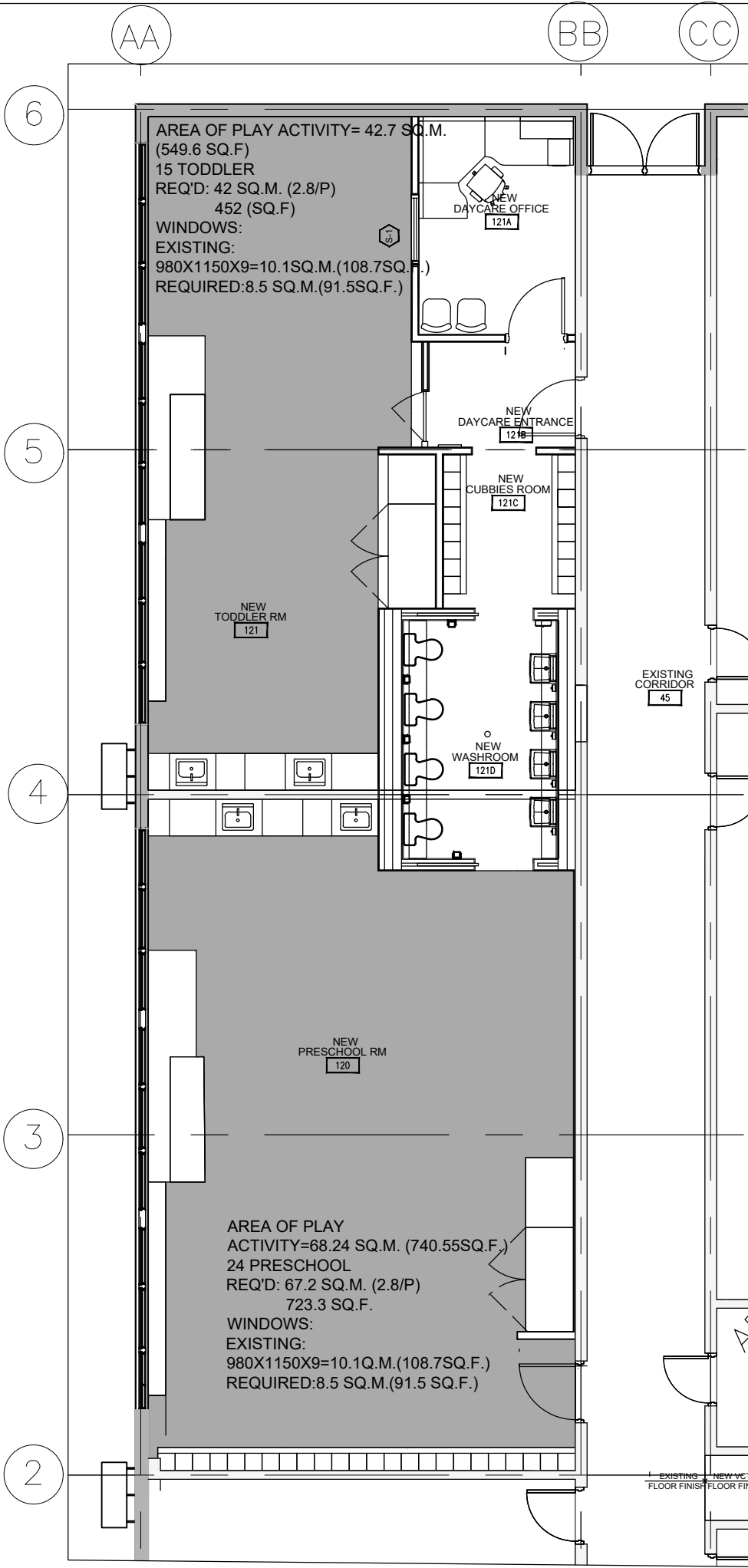
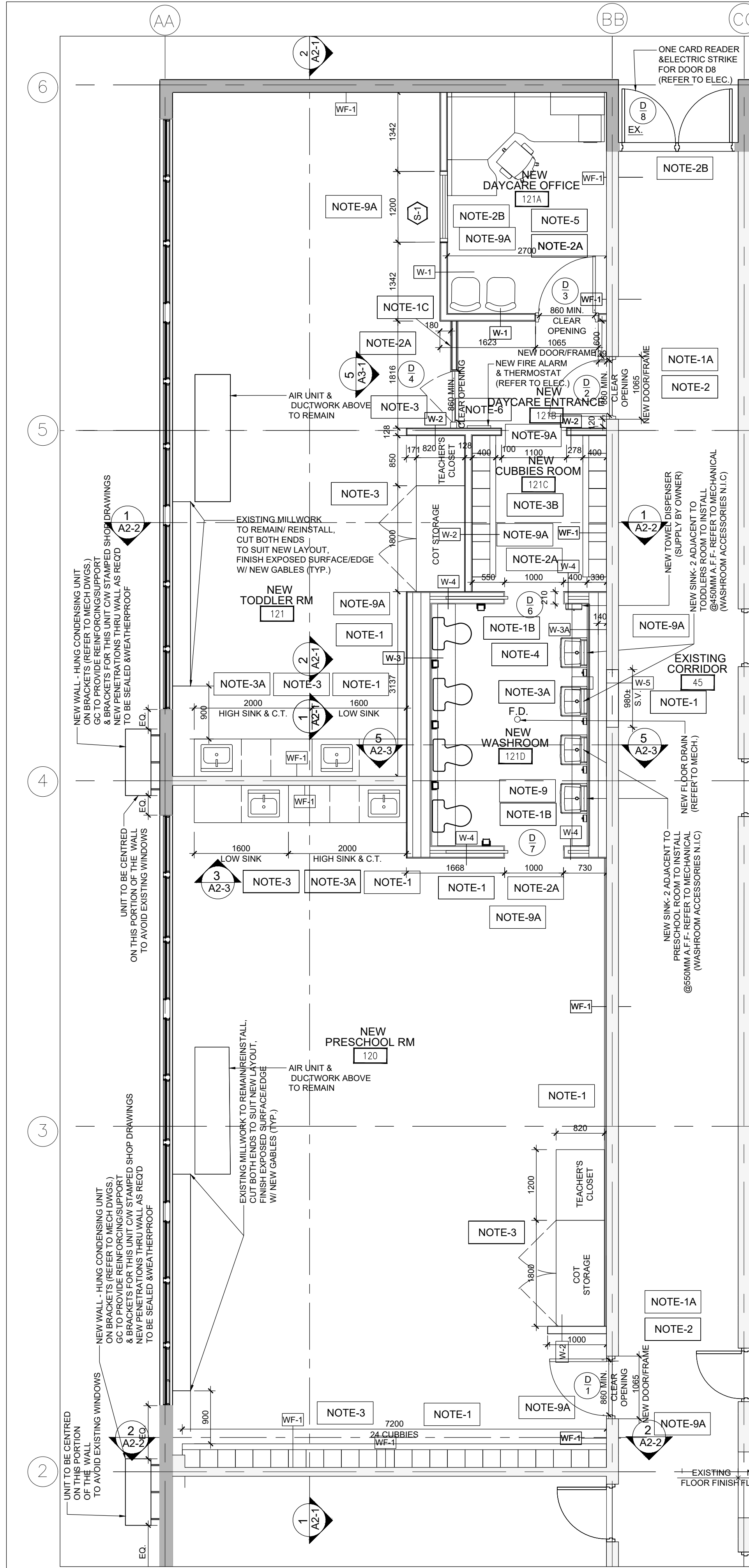
2 DEMOLITION LAYOUT  
A1-2-2 SC. 1:50 STAGE, WHEELCHAIR LIFT AND B.F. DOORS

- ARCHITECTURAL: - REMOVE EXISTING WALLS WHERE INDICATED.  
- REMOVE AND SALVAGE DOOR AND HARDWARE WHERE INDICATED TO REINSTALL AS SHOWN  
- REMOVE STAIRS AS INDICATED TO RELOCATE FURTHER BACK AS SHOWN.  
- REMOVE, SALVAGE AND CLEAN HANDRAILS TO RELOCATE WHERE INDICATED.  
- CUT NEW OPENINGS ON THE EXISTING FLOORING OF THE STAGE WHERE INDICATED.  
- CUT SLAB AT NEW LOCATION OF LIFT TO PROVIDE 3" DEEP PIT.  
- REMOVE ELECTRICAL OUTLETS, CONTROL PANEL AND TEMPERATURE SENSORS FROM WEST WALL WHERE INDICATED.

REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR RELATED SCOPE.







2 NEW LAYOUT  
SC. 1:100 DAYCARE AREA CALCULATIONS

1 NEW LAYOUT  
SC. 1:50 PRESCHOOL RM 120 & TODDLER RM 121

- ARCHITECTURAL
- SUPPLY & INSTALL NEW DOOR, FRAME AND HARDWARE WHERE INDICATED.
  - REINSTALL EXISTING DOOR C/W HARDWARE AS SHOWN WHERE INDICATED, PATCH & FINISH AS REQ'D.
  - NEW DOORS SERVING PUBLIC CORRIDOR TO BE 45 MIN. FIRE RATED.
  - INFILL EXISTING OPENING WITH ONE HOUR FIRE RATED WALL, THICKNESS TO MATCH TO EXISTING.
  - SUPPLY & INSTALL NEW SLIDING DOORS BETWEEN ROOM 120& 121 WHERE INDICATED.
  - SUPPLY & INSTALL NEW 4' HIGH ENTRANCE GATE (WOOD) AND ADJACENT HALF WALL WHERE INDICATED.
  - ADD NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINK, LOW SINKS EQUIPPED W/ MIXING VALVES , CHANGING TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED. LOW AND HIGH SINKS TO HAVE CLEANOUTS ACCESSIBLE.
  - CONSTRUCT NEW OFFICE INSIDE ROOM 121, INCLUDING VISION SCREENS AND B.F.DOOR.
  - SUPPLY & INSTALL NEW TACK BOARDS & WHITE BOARDS WHERE INDICATED.
  - ADD REMOVABLE BACK PANELS, SUPPORT PANELS/BRACKETS, ELEC. & DATA CONDUIT, PHONE, WIFI C/W PASS THROUGH GROMMET AND POP UP OUTLET ON/BELOW COUNTER AT OFFICE SIDE WHERE INDICATED.
  - CONSTRUCT NEW WASHROOM FOR CHILDREN INCLUDING 4 TOILETS, 4 SINKS EQUIPPED W/ MIXING VALVES BETWEEN ROOMS 120 & 121 WITH ACCESS FROM BOTH ROOMS AS PER LAYOUT. INSTALL WASHROOM ACCESSORIES (TO BE SUPPLIED BY OWNER (N.I.C.))
  - SUPPLY & INSTALL NEW VCT FLOORING IN THE WASHROOM AND WHERE INDICATED.
  - PATCH FLOORING TO MATCH TO EXISTING AT SAW CUTS.
  - PROVIDE PLUMBING, POWER AND EXHAUST FOR NEW WASHROOM.
  - INSTALL WASHER & DRYER INSIDE LAUNDRY CLOSET, PROVIDE PLUMBING, POWER AND EXHAUST TO OUTSIDE.
  - PROVIDE AIPHONE INTERCOM AND ONE CARD READER OUTSIDE EXTERIOR DOOR LOCATED AT WEST ENTRANCE & ONE CARD READER FOR EAST ENTRANCE WHERE INDICATED.
  - UPGRADE VENTILATION, AND FIRE ALARM SYSTEM FOR DESIGNATED AREAS.
  - PATCH FLOORING TO MATCH TO EXISTING WHERE INDICATED AND AT SAW CUTS.
  - CLEAN & REINSTALL LIGHT FIXTURES AND SUSPENSION CEILING AS PER THE NEW LAYOUT.
  - UPGRADE VENTILATION/ COOLING SYSTEM BY ADDING NEW REMOTE CONDENSING UNITS FOR ROOMS 120 & 121 & ADJUSTMENTS TO EXISTING BAS CONTROLS (REFER TO MECHANICAL).
  - PROVIDE REINFORCING/ SUPPORT & BRACKETS FOR NEW WALL-HUNG CONDENSING UNITS, ENGINEERING STAMPED SHOP DRAWINGS REQUIRED TO REVIEW.
  - NEW PENETRATIONS THRU EXISTING WALL TO BE SEALED & WEATHERPROOF.
  - NEW EXPOSED DUCTWORK PAINT TO MATCH TO EXISTING.
  - RELOCATE/ADD FIRE ALARMS (REFER TO ELECTRICAL).
  - UPGRADE SPEAKERS FOR THE AREA OF WORK.

REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR RELATED SCOPE OF WORK.

- PARTITION TYPES
- A. ALL NEW PARTITIONS TO U/S OF SLAB, UNLESS OTHERWISE NOTED.
  - B. REFER TO ROOM SCHEDULE FOR FINISHES.
  - C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE MOVED TO FACE OF NEW PARTITION.
- W-1 INTERIOR NON-LOAD BEARING WALL
- 1 HOUR F.R.R. ULC #W407
- 15.9MM TYPE X GYPSUM WALL BOARD
  - 89MM ACOUSTIC BATT INSULATION
  - 31MM X 92MM STEEL STUD @400mm O.C.
  - 15.9MM TYPE X GYPSUM WALL BOARD
  - FLOOR TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED
- W-2 INTERIOR NON-LOAD BEARING WALL
- 15.9MM GYPSUM WALL BOARD
  - 31MM X 92MM STEEL STUD @400mm O.C.
  - 89MM ACOUSTIC BATT INSULATION
  - 15.9MM GYPSUM WALL BOARD
  - FLOOR TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE
  - PERIMETER CAULKED
- W-F1 INTERIOR FURRING
- TO UNDERNEATH OF THE EXISTING CEILING
- 22MM METAL FURRING CHANNEL @610mm O.C.
  - 12.7MM GYPSUM WALL BOARD
  - FINISH AS PER FINISH SCHEDULE
- W-3 INTERIOR NON-LOAD BEARING WALL
- (INSIDE WASHROOM)
- CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR
  - 16MM CEMENT BACKER BOARD (C.B.U)
  - FLOOR TO U/S OF STRUCTURE
  - 16MM PLYWOOD BLOCKING
  - AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION
  - WATER PROOFING MEMBRANE
  - 152MM METAL STUDS AT 400MM O.C.
  - 140MM AIR/PLUMBING SPACE
  - 89MM ACOUSTIC BATT INSULATION
  - 92mmMETAL STUDS AT 400MM O.C.
  - 15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE
  - PERIMETER CAULKED
- W-3A INTERIOR NON-LOAD BEARING WALL
- (INSIDE WASHROOM)
- CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR
  - 16MM CEMENT BACKER BOARD (C.B.U)
  - FLOOR TO U/S OF STRUCTURE
  - 16MM PLYWOOD BLOCKING
  - AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION
  - WATER PROOFING MEMBRANE
  - 152MM METAL STUDS AT 400MM O.C.
  - 140MM AIR/PLUMBING SPACE
  - 89MM ACOUSTIC BATT INSULATION
  - 92mmMETAL STUDS AT 400MM O.C.
  - 15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE
  - PERIMETER CAULKED
- W-4 INTERIOR NON-LOAD BEARING WALL
- (INSIDE WASHROOM)
- CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR
  - 16MM CEMENT BACKER BOARD (C.B.U)
  - FLOOR TO U/S OF STRUCTURE
  - 16MM PLYWOOD BLOCKING
  - AS REQ'D FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION
  - WATER PROOFING MEMBRANE
  - 152MM METAL STUDS AT 400MM O.C.
  - 140MM AIR/PLUMBING SPACE
  - 89MM ACOUSTIC BATT INSULATION
  - 92mmMETAL STUDS AT 400MM O.C.
  - 15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE
  - PERIMETER CAULKED
- W-5 INTERIOR NON-LOAD BEARING WALL-INFILL
- 1 HOUR F.R.R. OBCHB2C
- 12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE)
  - 140MM CONCRETE MASONRY UNIT
  - FLOOR TO U/S OF STRUCTURE
  - FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED
  - ENSURE MORTAR IS PACKED COMPLETELY AND FIRE SEPARATION IS CONTINUOUS
  - THICKNESS TO MATCH TO EXISTING

- CONSTRUCTION NOTES
- NOTE-1
- INSTALL NEW WALL C/W PAINT AS PER SCHEDULE
  - PATCH + M.G. WALL/CEILING/FLOOR SURFACES
  - PROVIDE STAMPED SHOP DRAWINGS FOR NEW STEEL STUD FRAMING
  - TO INFILL THE OPENINGS AT LOCATIONS WITH CMU ALLOW FOR TOOTING-IN OF NEW BLOCK
- NOTE-1A
- FINISH EDGES OF EXPOSED WALLS TO MATCH TO EXISTING, WHERE APPLICABLE AT BLOCK WALL
  - W/BLUENOSE END BLOCKS, C/W MATCHING MATERIAL, ALLOW FOR TOOTING-IN OF NEW BLOCKS, PATCH +M.G. WALL/CEILING/FLOOR SURFACES, WHERE WALLS REMOVED AT NEW OPENINGS.
  - FINISH EDGES OF OPENING SURROUND WITH PLAM ON MOISTURE RESISTANT MDF, PATCH +M.G.
- NOTE-1B
- INSTALL NEW HALF WALL (854+WIDEX1200MMHIGH) 12.7MM DRYWALL ON BOTH SIDES OF 31MM X 64 MM STEEL STUD FRAMING @400MM C, C/W MELAMINE FINISH ON 15MM HDF CORE TO MATCH TO ADJACENT SWING GATE/POST
- NOTE-1C
- SUPPLY & INSTALL NEW DOOR/FRAME/HARDWARE AS PER SCHEDULE
  - INSTALL JAMBS + HEAD (LINTELS TO COMPLY TO LINTEL SCHEDULE), REFER TO STRUC. DWGS.
  - DOOR TO BE EQUIPPED WITH DOOR CLOSER AS PER DOOR SCHEDULE
  - FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQ'D, REFER TO FINISH SCHEDULE
- NOTE-2
- INSTALL NEW DOOR/FRAME/HARDWARE WHERE INDICATED.
  - INSTALL JAMBS + HEAD (W/2X4 FRAMING @16"O.C. AND GYPSUM BOARD
  - DOOR TO BE EQUIPPED WITH DOOR CLOSER
  - FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQ'D, REFER TO FINISH SCHEDULE
- NOTE-2A
- INSTALL NEW DOOR/FRAME/HARDWARE WHERE INDICATED.
  - INSTALL JAMBS + HEAD (W/2X4 FRAMING @16"O.C. AND GYPSUM BOARD
  - DOOR TO BE EQUIPPED WITH DOOR CLOSER
  - FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQ'D, REFER TO FINISH SCHEDULE
- NOTE-2B
- INSTALL NEW ONE CARD READER, DOOR CLOSER & ELECTRIC STRIKE FOR THE EXISTING DOOR
- NOTE-2C
- INSTALL NEW AIPHONE AND ONE CARD READER FOR THE EXISTING DOOR. AIPHONE TO CONNECT TO THE MAIN OFFICE.
- NOTE-3
- SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINKS, CHANGING TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED.(REFER TO MILLWORK DRAWINGS)
  - PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-3A
- SUPPLY & INSTALL SINKS & FAUCETS, CONNECT TO EXISTING PLUMBING. (REFER TO MECHANICAL)
  - PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-3B
- SUPPLY AND INSTALL CUBBIES AND BENCH. (REFER TO MILLWORK DWG.S)
- NOTE-3C
- INSTALL WASHER & DRYER, CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL)
  - PROVIDE POWER (REFER TO ELECTRICAL)
  - PROVIDE EXHAUST DUCT TO EXTERIOR (REFER TO MECHANICAL)
- NOTE-3D
- SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS & SHELVES & COUNTERTOP C/W BACK SPLASH. (REFER TO MILLWORK DRAWINGS)
  - PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-4
- SUPPLY & INSTALL NEW TOILET FIXTURE.
  - INSTALL WASHROOM ACCESSORIES (TO BE SUPPLIED BY OWNER)
  - CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL)
  - PROVIDE CONDUIT FOR ELECTRICAL AND DATA BEHIND THE NEW BACK PANEL, C/W NEW OUTLET PASS THRU GROMMET FOR NEW OFFICE (REFER TO ELECTRICAL)
- NOTE-5
- INSTALL PA, THERMOSTAT & FIRE ALARM. (REFER TO ELECTRICAL)
- NOTE-6
- REINSTALL THE EXISTING DOOR W /OPPOSITE SWING, PATCH, PAINT AND FINISH AS PER SCHEDULE
- NOTE-7
- INSTALL NEW WHEELCHAIR LIFT AS PER MANUAL AND STRUCTURAL DRAWINGS.
- NOTE-8
- REINSTALL EXISTING STAIRS AND RAILING WHERE INDICATED. ADJUST RAILING TO SUIT NEW LAYOUT.
- NOTE-8A
- PATCH AND MAKE GOOD FLOOR WHERE EXISTING SLAB FOR NEW DRAIN, LIFT AND OTHER AREAS HAS BEEN CUT OR REMOVED.
  - MAKE IT LEVEL AND READY FOR NEW FLOORING.
  - SUPPLY & INSTALL NEW VCT TILES ON FLOOR.
- NOTE-9A
- PATCH FLOORING TO MATCH TO EXISTING AT SAW CUTS.
- NOTE
- PATCH AND MAKE GOOD GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN
  - ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS.
  - WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS, COVER VERTICALS EDGES OF THE RECESSED CEILING WITH DRYWALL CEILING FRAMING/PANELS. PREPARE TO RECEIVE PRIMER AND PAINT.
  - REFER TO LINTEL SCHEDULE FOR SIZE OF CHANNEL.
  - REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND PIPES ABOVE THE CEILING.
  - REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SMOKE DETECTORS.
  - CONTRACTOR TO VERIFY AND COORDINATE LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

NOTES

- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
- DO NOT SCALE DRAWINGS
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

LEGEND

- EXISTING WALLS TO REMOVE
- ===== EXISTING WALLS TO REMAIN
- ===== NEW WALLS

KEY MAP

ISSUED FOR RE-TENDER JAN11, 2021

ISSUED FOR PERMIT/TENDER FEB25, 2020

SCOPE REDUCTION-CLIENT REVIEW APR26, 2019

SUBMITTED FOR TENDER & PERMIT JULY 5, 2018

ISSUED FOR 99% DESIGN JUNE 22, 2018

ISSUED FOR 66% DESIGN JUNE 08, 2018

ISSUED FOR 33% DESIGN MAY 22, 2018

ISSUED FOR CLIENT REVIEW MAY 14, 2018

ONTARIO ASSOCIATION OF ARCHITECTS

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JAN 31 2021

ARCHITECTS

Architecture + Design

LDM ARCHITECTS INC.

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EEC- STE. CROIX DAYCARE

INTERIOR RENOVATIONS

TINY, ON

MonAvenir

CONSEIL SCOLAIRE CATHOLIQUE

CONSEIL SCOLAIRE CATHOLIQUE MONAvenir

110 DREWRY AVENUE

TORONTO, ON

SELECTIVE NEW LAYOUTS

ROOMS 120 & 121

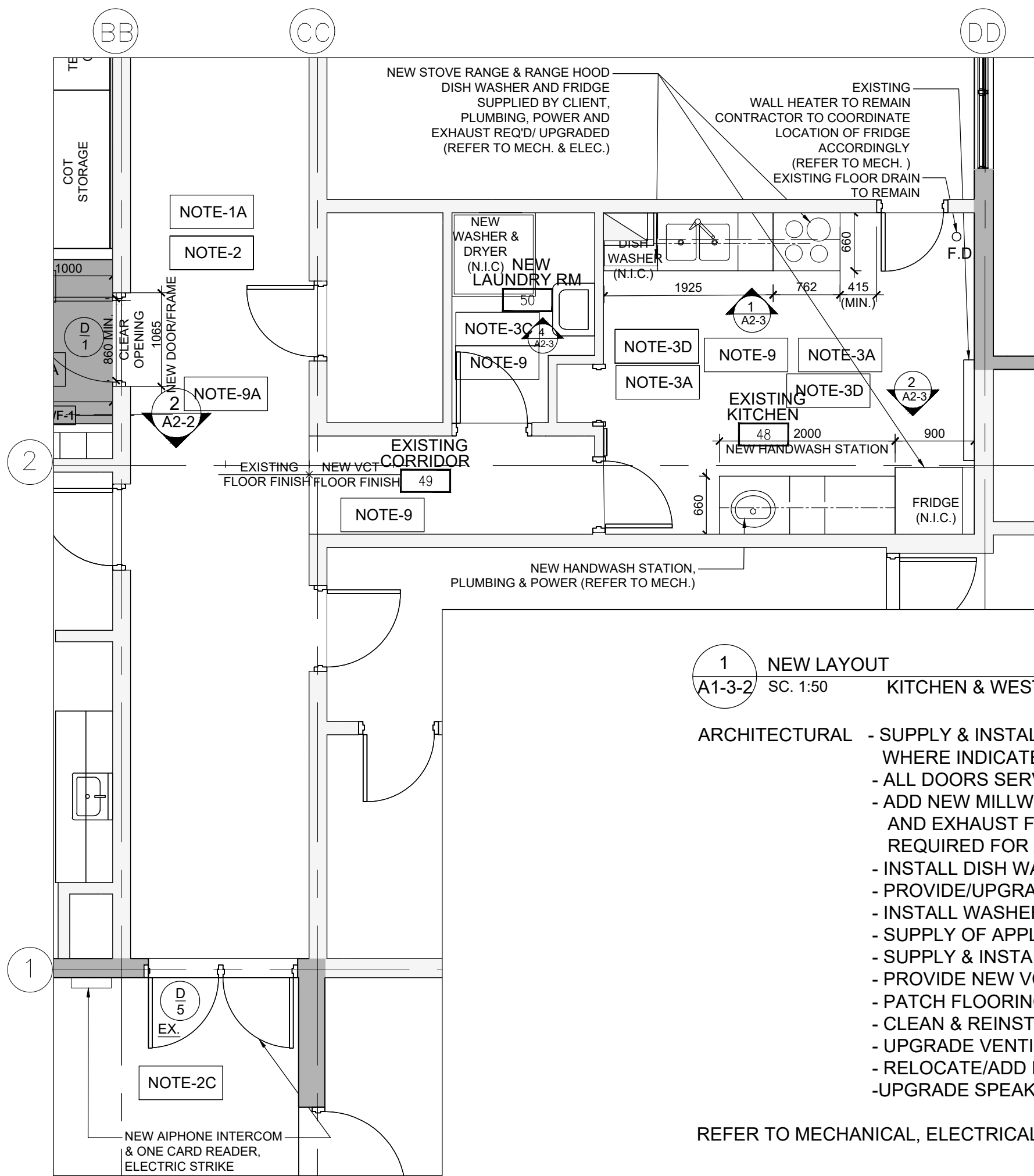
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AS NOTED

MAY 2018

2018-11B

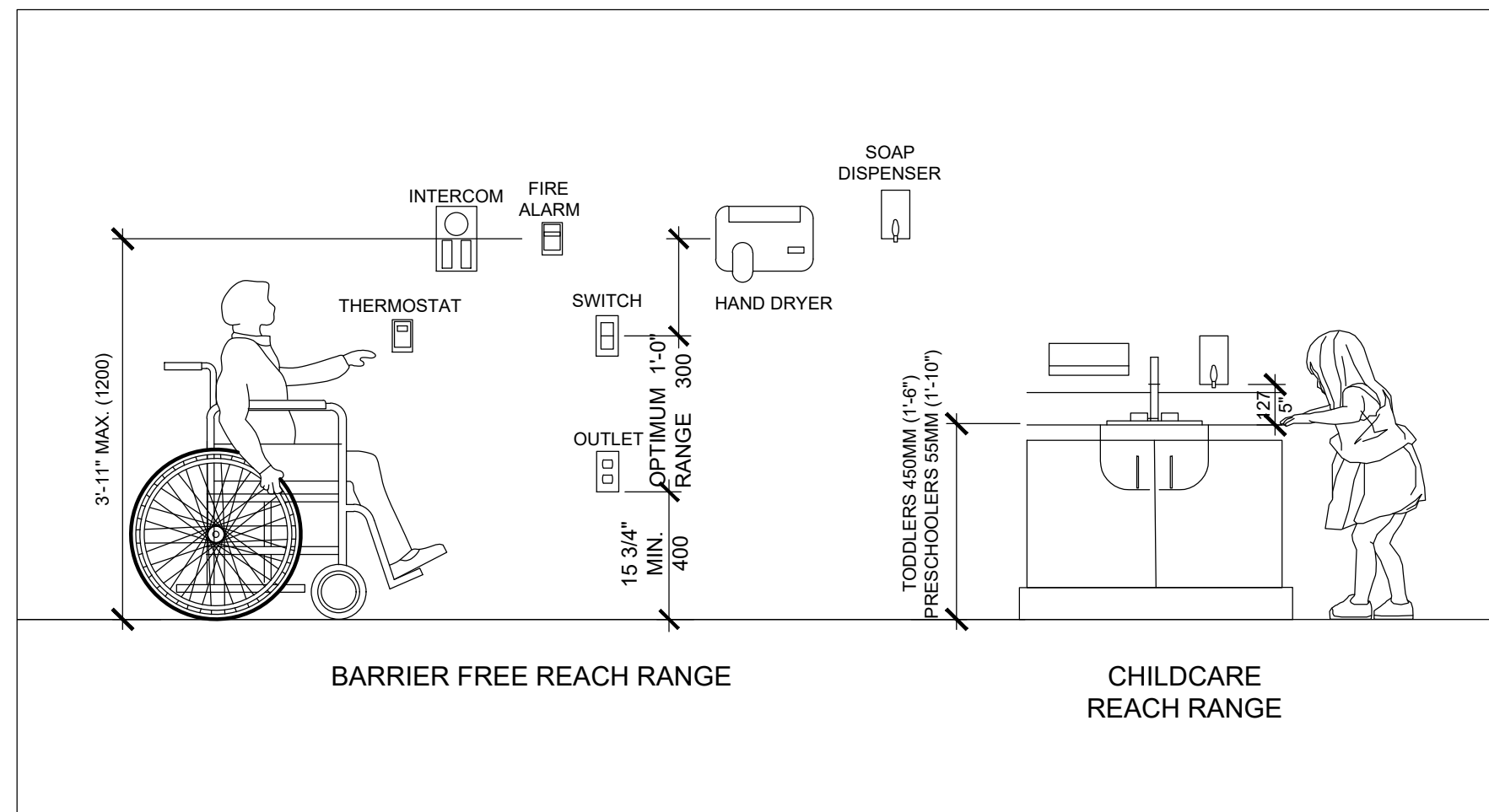




**1 NEW LAYOUT**  
A1-3-2 SC. 1:50 KITCHEN & WEST ENTRANCE DOOR

- ARCHITECTURAL**
- SUPPLY & INSTALL NEW DOOR, FRAME AND HARDWARE AT EXISTING/NEW LOCATIONS WHERE INDICATED.
  - ALL DOORS SERVING PUBLIC CORRIDOR TO BE 45 MIN. FIRE RATED.
  - ADD NEW MILLWORKS INCLUDING TOP & BOTTOM CABINETS, SINK, FAUCET, C/W COUNTER TOPS AND EXHAUST FAN. MIXING VALVE REQUIRED FOR HAND WASH BASIN. CLEAN OUT ACCESS REQUIRED FOR ALL SINKS.
  - INSTALL DISH WASHER, STOVE AND FRIDGE IN THE KITCHEN.
  - PROVIDE/UPGRADE PLUMBING, POWER AND EXHAUST.
  - INSTALL WASHER & DRYER AT LAUNDRY RM., C/W EXHAUST DUCT CONNECT TO ROOF OPENING.
  - SUPPLY OF APPLIANCES BY CLIENT.
  - SUPPLY & INSTALL NEW VCT FLOORING FOR ROOMS 48, 49 & 50.
  - PROVIDE NEW VCT FLOORING WHERE INDICATED.
  - PATCH FLOORING TO MATCH TO EXISTING AT SAW CUTS.
  - CLEAN & REINSTALL LIGHT FIXTURES AND SUSPENSION CEILING AS PER THE NEW LAYOUT.
  - UPGRADE VENTILATION FOR DESIGNATED AREAS.
  - RELOCATE/ADD FIRE ALARMS.
  - UPGRADE SPEAKERS FOR THE AREA OF WORK.

REFER TO MECHANICAL, ELECTRICAL AND STRUCTURAL DRAWINGS FOR RELATED SCOPE OF WORK.



**3 REACH RANGE**  
A1-3-2 SC. 1:20

- PARTITION TYPES**  
A. ALL NEW PARTITIONS TO U/S/ OF SLAB, UNLESS OTHERWISE NOTED.  
B. REFER TO ROOM SCHEDULE FOR FINISHES.  
C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE MOVED TO FACE OF NEW PARTITION.
- W-1 INTERIOR NON-LOAD BEARING WALL**  
1 HOUR F.R.R. ULC #RW407  
-15.9MM TYPE X GYPSUM WALL BOARD  
-89MM ACOUSTIC BATT INSULATION  
-31MM X 92MM STEEL STUD @400mm O.C.  
-15.9MM TYPE X GYPSUM WALL BOARD  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED
- W-2 INTERIOR NON-LOAD BEARING WALL**  
-15.9MM GYPSUM WALL BOARD  
-31MM X 92MM STEEL STUD @400mm O.C.  
-89MM ACOUSTIC BATT INSULATION  
-15.9MM GYPSUM WALL BOARD  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED
- W-F1 INTERIOR FURRING**  
TO UNDERNEATH OF THE EXISTING CEILING  
-22MM METAL FURRING CHANNEL @810mm O.C.  
-12.7MM GYPSUM WALL BOARD  
-FINISH AS PER FINISH SCHEDULE
- W-3 INTERIOR NON-LOAD BEARING WALL**  
-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
-FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-152MM METAL STUDS AT 400MM O.C.  
-140MM AIR/PLUMBING SPACE  
-89MM ACOUSTIC BATT INSULATION  
-92mmMM METAL STUDS AT 400MM O.C.  
-15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED
- W-3A INTERIOR NON-LOAD BEARING WALL**  
-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
-FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-152MM METAL STUDS AT 400MM O.C.  
-140MM AIR/PLUMBING SPACE  
-89MM ACOUSTIC BATT INSULATION  
-EXISTING WALL  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED
- W-4 INTERIOR NON-LOAD BEARING WALL**  
-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
-FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-31MM X 64 MM STEEL STUD @400MM O.C.  
-500 AIR SPACE FOR POCKET DOOR  
-31MM X 64 MM STEEL STUD @400MM O.C.  
-15.9MM GYPSUM WALL BOARD  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED
- W-5 INTERIOR NON-LOAD BEARING WALL-INFILL**  
1 HOUR F.R.R. OBC#B2C  
-12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE)  
-140MM CONCRETE MASONRY UNIT  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED  
-SEPARATION IS CONTINUOUS  
-THICKNESS TO MATCH TO EXISTING

## CONSTRUCTION NOTES

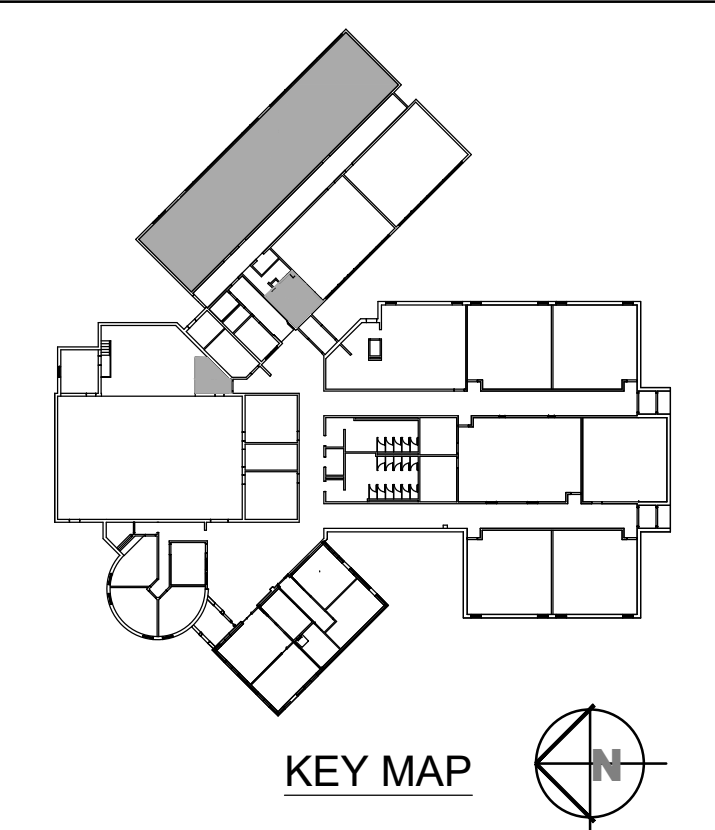
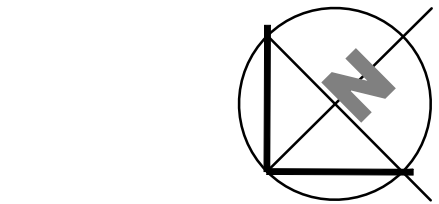
- NOTE-1** -INSTALL NEW WALL C/W PAINT AS PER SCHEDULE  
-PATCH + M.G. WALL/CEILING/FLOOR SURFACES  
-PROVIDE STAMPED SHOP DRAWINGS FOR NEW STEEL STUD FRAMING  
-TO INFILL THE OPENINGS AT LOCATIONS WITH CMU ALLOW FOR TOOTING-IN OF NEW BLOCK  
-FINISH EDGES OF EXPOSED WALLS TO MATCH TO EXISTING, WHERE APPLICABLE AT BLOCK WALL  
-W/BLUENOSE END BLOCKS, C/W MATCHING MATERIAL, ALLOW FOR TOOTING-IN OF NEW BLOCKS, WHERE WALLS REMOVED AT NEW OPENINGS.  
-FINISH EDGES OF OPENING SURROUND WITH PLAM ON MOISTURE RESISTANT MDF, PATCH +M.G. WALL/CEILING/FLOOR SURFACES.
- NOTE-1A** -INSTALL NEW HALF WALL (854+WIDEX1200MMHIGH) 12.7MM DRYWALL ON BOTH SIDES OF 31MM X 64 MM STEEL STUD FRAMING @400MM O.C. C/W MELAMINE FINISH ON 19MM HDF CORE TO MATCH TO ADJACENT SWING GATE/POST
- NOTE-1B** -SUPPLY & INSTALL NEW DOOR/FRAME/HARDWARE AS PER SCHEDULE  
-INSTALL JAMBS + HEAD (LINTELS TO COMPLY TO LINTEL SCHEDULE), REFER TO STRUC. DWGS.  
-DOOR TO BE EQUIPPED WITH DOOR CLOSER AS PER DOOR SCHEDULE  
-FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQD, REFER TO FINISH SCHEDULE
- NOTE-1C** -INSTALL NEW DOOR/FRAME/HARDWARE WHERE INDICATED.  
-INSTALL JAMBS + HEAD (W/2X4 FRAMING @16"O.C. AND GYPSUM BOARD  
-DOOR TO BE EQUIPPED WITH DOOR CLOSER  
-FOR DOOR AND DOOR FRAMES COLOUR CONTRAST REQD, REFER TO FINISH SCHEDULE
- NOTE-2** -INSTALL NEW ONE CARD READER, DOOR CLOSER & ELECTRIC STRIKE FOR THE EXISTING DOOR
- NOTE-2A** -INSTALL NEW AIPHONE AND ONE CARD READER FOR THE EXISTING DOOR. AIPHONE TO CONNECT TO THE MAIN OFFICE.
- NOTE-2B** -SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINKS, CHANGING TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED.(REFER TO MILLWORK DRAWINGS)  
-PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-2C** -SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINKS, CHANGING TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED.(REFER TO MILLWORK DRAWINGS)  
-PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-3** -SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS, HIGH & LOW SINKS, CHANGING TABLES, COT STORAGE AND TEACHER'S CLOSET WHERE INDICATED.(REFER TO MILLWORK DRAWINGS)  
-PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-3A** -SUPPLY & INSTALL SINKS & FAUCETS, CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL)  
-PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-3B** -SUPPLY AND INSTALL CUBBIES AND BENCH (REFER TO MILLWORK DWG.S)
- NOTE-3C** -INSTALL WASHER & DRYER, CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL)  
-PROVIDE POWER (REFER TO ELECTRICAL)  
-PROVIDE EXHAUST DUCT TO EXTERIOR (REFER TO MECHANICAL)
- NOTE-3D** -SUPPLY AND INSTALL NEW MILLWORKS INCLUDING CABINETS & SHELVES & COUNTERTOP C/W BACK SPLASH. (REFER TO MILLWORK DRAWINGS)  
-PROVIDE NEW OUTLETS. (REFER TO ELECTRICAL)
- NOTE-4** -SUPPLY & INSTALL NEW TOILET FIXTURE.  
-INSTALL WASHROOM ACCESSORIES (TO BE SUPPLIED BY OWNER)  
-CONNECT TO EXISTING PLUMBING (REFER TO MECHANICAL)  
-PROVIDE CONDUIT FOR ELECTRICAL AND DATA BEHIND THE NEW BACK PANEL, C/W NEW OUTLET PASS THRU GROMMET FOR NEW OFFICE. (REFER TO ELECTRICAL)
- NOTE-5** -INSTALL PA, THERMOSTAT & FIRE ALARM. (REFER TO ELECTRICAL)
- NOTE-6** -REINSTALL THE EXISTING DOOR W/ OPPOSITE SWING, PATCH, PAINT AND FINISH AS PER SCHEDULE AND STRUCTURAL DRAWINGS.
- NOTE-7** -REINSTALL EXISTING STAIRS AND RAILING WHERE INDICATED. ADJUST RAILING TO SUIT NEW LAYOUT.
- NOTE-8** -PATCH AND MAKE GOOD FLOOR WHERE EXISTING SLAB FOR NEW DRAIN, LIFT AND OTHER AREAS HAS BEEN CUT OR REMOVED.  
-MAKE IT LEVEL AND READY FOR NEW FLOORING.  
-SUPPLY & INSTALL NEW VCT TILES ON FLOOR.
- NOTE-8A** -PATCH FLOORING TO MATCH TO EXISTING AT SAW CUTS.
- NOTE-9** -PATCH AND MAKE GOOD GOUGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN  
-ENSURE CONTINUITY OF ALL FIRE SEPARATIONS. FIRE STOP ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS.
- NOTE-9A** -WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS, COVER VERTICAL EDGES OF THE RECESSED CEILING WITH DRYWALL, CEILING FRAMING/PANELS. PREPARE TO RECEIVE PRIMER AND PAINT.  
-REFER TO LINTEL SCHEDULE FOR SIZE OF CHANNEL.  
-REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND PIPES ABOVE THE CEILING.  
-REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SMOKE DETECTORS.  
-CONTRACTOR TO VERIFY AND COORDINATE LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

## NOTES

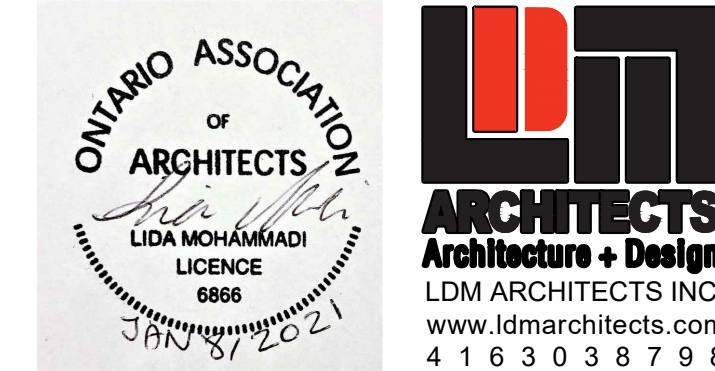
- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
- DO NOT SCALE DRAWINGS
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

## LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



ISSUED FOR RE-TENDER	JAN11, 2021
ISSUED FOR PERMIT/TENDER	FEB25, 2020
SCOPE REDUCTION-CLIENT REVIEW	APR26, 2019
SUBMITTED FOR TENDER & PERMIT	JULY 5, 2018
ISSUED FOR 99% DESIGN	JUNE 22, 2018
ISSUED FOR 66% DESIGN	JUNE 08, 2018
ISSUED FOR 33% DESIGN	MAY 22, 2018
ISSUED FOR CLIENT REVIEW	MAY 14, 2018



## EEC- STE. CROIX DAYCARE INTERIOR RENOVATIONS TINY, ON



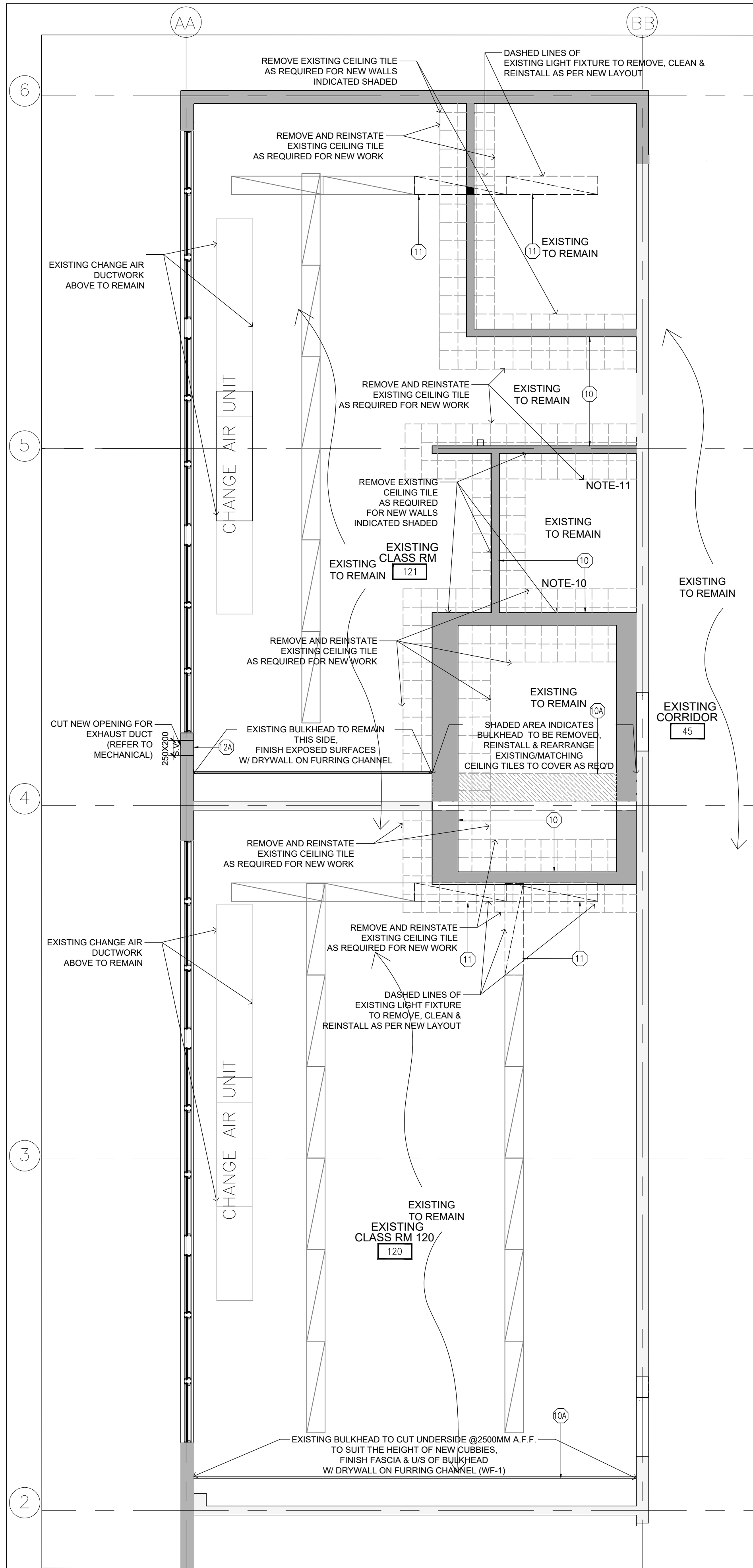
## SELECTIVE NEW LAYOUTS KITCHEN & STAGE

# A1-3-2

AS NOTED  
MAY 2018

2018-11B

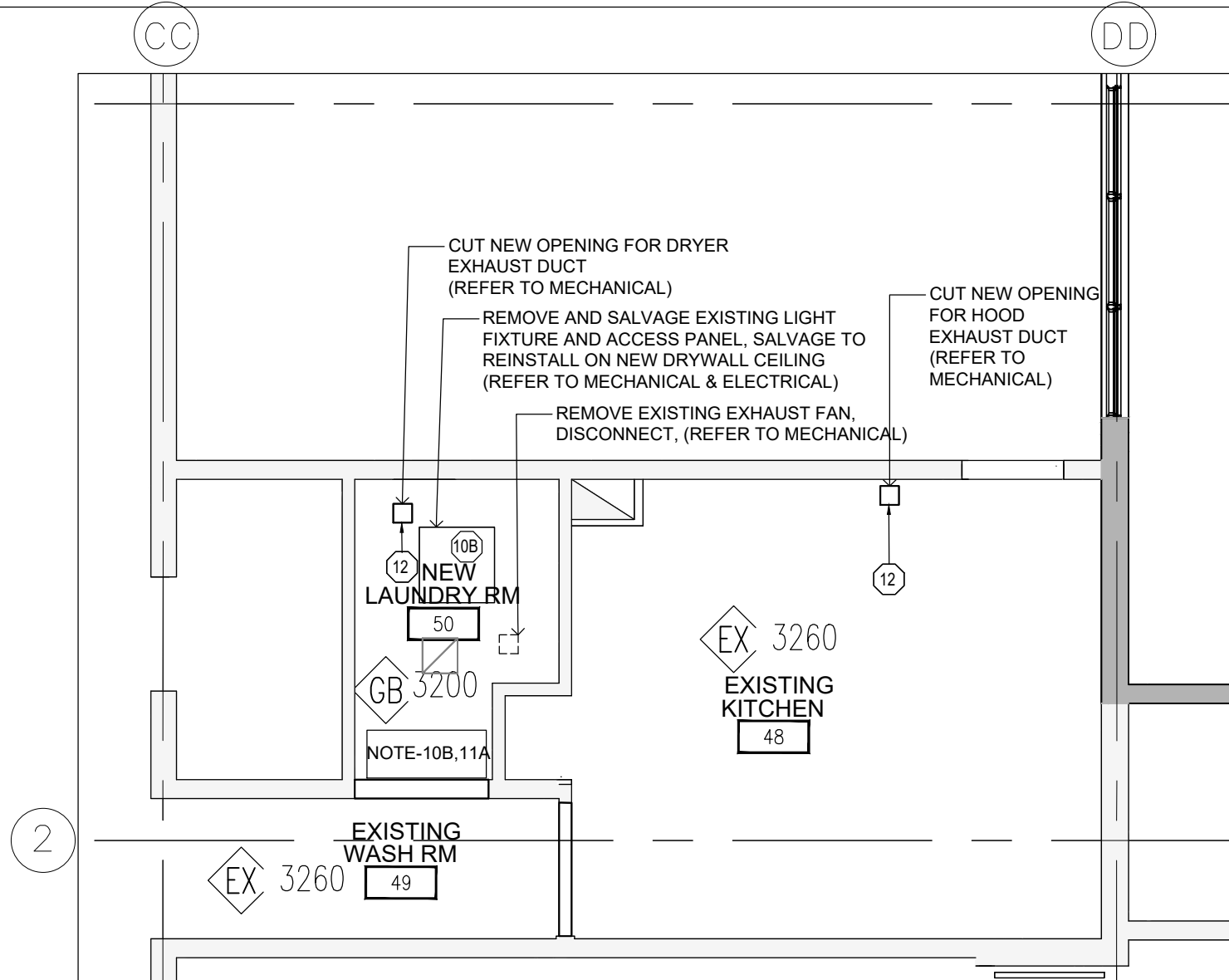




1 RCP-DEMOLITION LAYOUT  
SC. 1:50 ROOMS 120 & 121

ARCHITECTURAL: - REMOVE AND REINSTATE EXISTING CEILING TILES AT PERIMETER OF NEW WALLS AS REQUIRED FOR CONSTRUCTION OF NEW WALL TO STRUCTURE.  
- REMOVE CEILING TILES & BULKHEAD AT LOCATION OF NEW WALLS AS REQ'D.  
- CUT UNDERSIDE OF BULKHEAD WHERE NEW CUBBIES WILL BE LOCATED.  
- CUT OPENING ON EXTERIOR WALL FOR EXHAUST DUCT.  
- REMOVE, SALVAGE, CLEAN AND RELOCATE EXISTING LIGHT FIXTURE.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SCOPE OF WORK.



2 RCP- DEMOLITION LAYOUT  
SC. 1:50 KITCHEN & LAUNDRY RM

ARCHITECTURAL: - CUT NEW OPENINGS ON THE CEILING OF KITCHEN TO THE ROOF FOR NEW HOOD EXHAUST DUCT.  
- CUT NEW OPENINGS ON THE CEILING OF LAUNDRY ROOM FOR INSTALLATION OF NEW EXHAUST HOOD, CONNECT TO EXISTING OPENING ON THE ROOF.  
- REMOVE EXISTING EXHAUST FAN, DISCONNECT. FINISH CEILING.  
- MODIFY EXISTING OPENING ON THE ROOF FOR INSTALLATION & CONNECTION OF NEW DRYER EXHAUST DUCT.

REFER TO MECHANICAL DRAWINGS FOR RELATED SCOPE OF WORK.

#### DEMOLITION NOTES

- 108 -REMOVE, SALVAGE AND REINSTATE EXISTING CEILING LIGHT FIXTURE & ACCESS PANEL, LOCATION ADJUST TO SUIT NEW LAYOUT. (REFER TO RCP).
  - 11 -REMOVE, SALVAGE AND REINSTALL EXISTING LIGHT FIXTURES WHERE INDICATED. (REFER TO RCP & ELECTRICAL).
  - 12 -CUT NEW OPENING ON CEILING FOR EXHAUST DUCT, CONNECT TO THE OPENINGS ON ROOF (REFER TO MECHANICAL)
  - 28 -CUT NEW OPENING ON EXTERIOR WALL FOR NEW EXHAUST DUCT, (REFER TO MECHANICAL)
- NOTE: WHERE REQUIRED:  
-PROVIDE SUPPORT/SHORING BEFORE REMOVAL OF EXISTING WALL.  
-REMOVE AND DISPOSE OF ALL DOORS, PARTITIONS AND ACCESSORIES WHERE INDICATED.  
-CAP ALL EXISTING ELECTRICAL SERVICES AS REQ'D.(REFER TO ELECTRICAL)  
-CAP DRAINS/DISCONNECT PLUMBING WHERE INDICATED.(REFER TO MECHANICAL)  
-REFER TO MECHANICAL & ELECTRICAL DRAWINGS FOR REMOVAL OF MECH/ELEC. ITEMS.  
-REMOVAL AND RELOCATION OF EXISTING CABINETS, BENCHES, TABLES AND FURNITURE TO CO-ORDINATE WITH THE OWNER.

#### GENERAL NOTES

MECHANICAL & ELECTRICAL FIXTURES ARE SHOWN FOR REFERENCE ONLY. REFER TO ELECTRICAL & MECHANICAL DRAWINGS.  
PATTERN OF ACT CEILINGS TO BE CENTERED IN THE ROOM UNLESS NOTED OTHERWISE  
FOR LIGHTING IN SERVICE ROOMS SEE ELECTRICAL DRAWINGS  
AT ALL EXPOSED MECHANICAL DUCT PENETRATIONS THROUGH SUSPENDED GYPSUM BOARD CEILINGS PROVIDE ANCO. ALUM. COLLAR REVEALS. REFER TO MECHANICAL DRAWINGS FOR DIAMETER AND LOCATION.  
IN AREAS WITH PARTIAL AND/OR FLOATING CEILINGS ENTIRE ARCHITECTURAL CONC. SLAB ABOVE TO BE SEALED WITH WALL GLAZE AS PER ROOM FINISH SCHEDULE.

#### NOTES

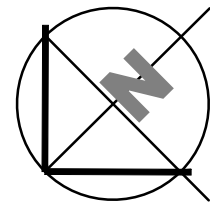
- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
- DO NOT SCALE DRAWINGS
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

#### LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS

#### CEILING LEGEND

- ACOUSTIC CEILING TILE
- GYPSUM BOARD
- EXISTING



#### KEY MAP

ISSUED FOR RE-TENDER JAN11, 2021  
ISSUED FOR PERMIT/TENDER FEB25, 2020  
SCOPE REDUC. +LIFT, CLIENT REVIEW OCT25, 2019  
SUBMITTED FOR TENDER & PERMIT JULY 5, 2018  
ISSUED FOR 99% DESIGN JUNE 22, 2018  
ISSUED FOR 66% DESIGN JUNE 08, 2018  
ISSUED FOR 33% DESIGN MAY 22, 2018  
ISSUED FOR CLIENT REVIEW MAY 14, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



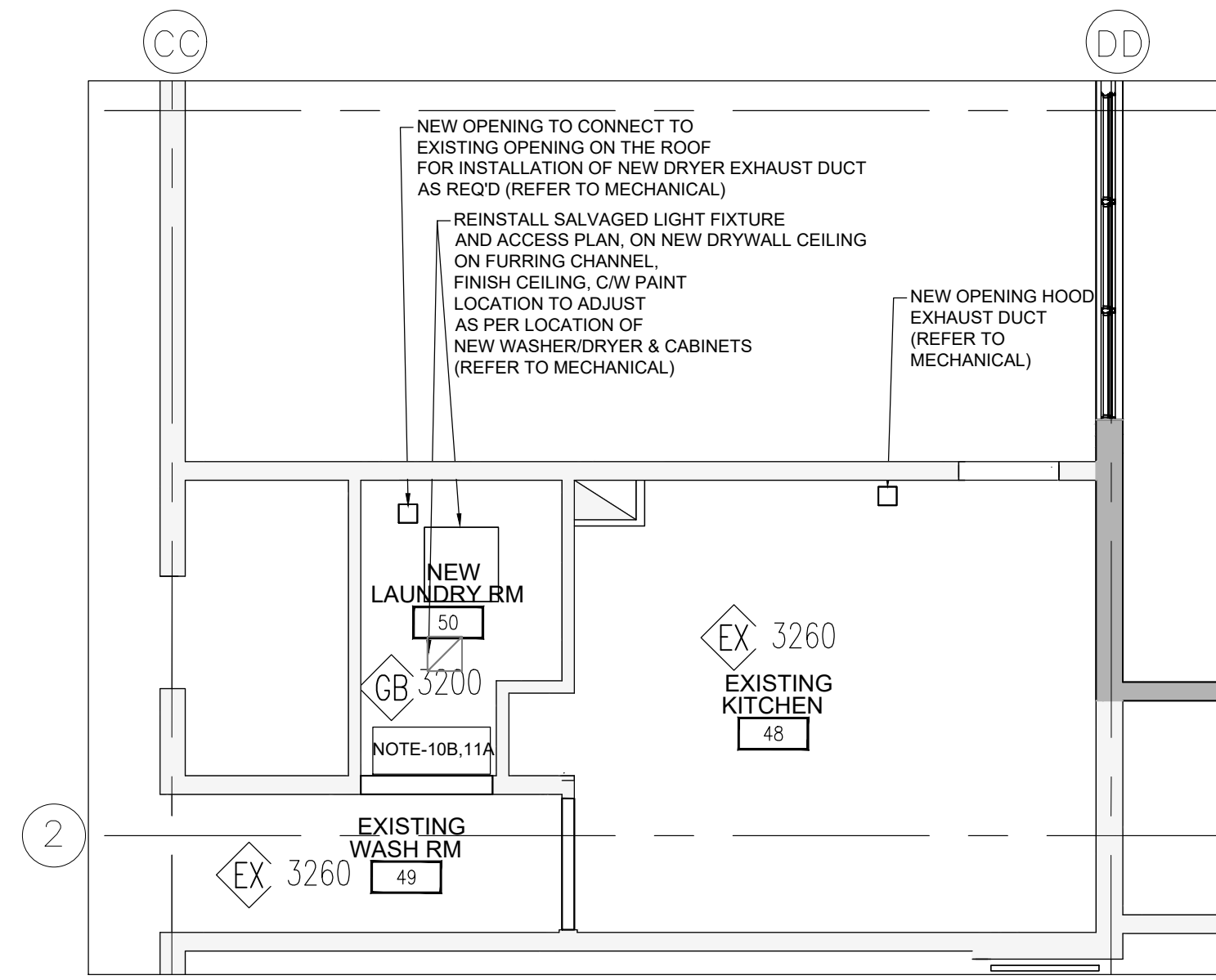
SELECTIVE RCP  
DEMOLITION LAYOUTS  
ROOMS 120, 121, KITCHEN & WASHRM

A1-4-1

AS NOTED  
JUNE 2018

2018-11B





ARCHITECTURAL: - PROVIDE NEW OPENINGS ON THE CEILING OF KITCHEN TO THE ROOF FOR NEW HOOD EXHAUST DUCT.

- PROVIDE NEW OPENINGS ON THE CEILING OF LAUNDRY ROOM FOR INSTALLATION OF NEW EXHAUST DUCT FOR DRYER. CONNECT TO EXISTING OPENING ON THE ROOF. EXISTING ROOF CURB TO MODIFY FOR NEW EXHAUST DUCT.
- FINISH CEILING WHERE EXHAUST FAN, REMOVED.
- MODIFY EXISTING OPENING ON THE ROOF FOR INSTALLATION & CONNECTION OF NEW DRYER EXHAUST DUCT.
- ADD NEW DRYWALL CEILING ON FURRING CHANNEL ON THE EXISTING CEILING OF LAUNDRY ROOM.

REFER TO MECHANICAL DRAWINGS FOR RELATED SCOPE OF WORK.

ARCHITECTURAL: - REINSTALL EXISTING CEILING TILES, REARRANGE TO SUIT NEW LAYOUT, ADD NEW, MATCHING CEILING TILES AS REQ'D.  
- REINSTALL EXISTING LIGHT FIXTURE TO SUIT NEW LAYOUT, WHERE INDICATED.  
- SUPPLY & INSTALL NEW LIGHT FIXTURE, NEW SUSPENSION CEILING, TILES & GRIDS AS PER NEW LAYOUT.  
- ADD NEW EXPOSED DUCTWORKS FOR COOLING SYSTEM C/W DIFFUSERS & GRILLES WHERE INDICATED.  
- FINISH SURFACES OF EXISTING BULKHEADS TO REMAIN W/ DRYWALL ON FURRING CHANNELS.

REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED SCOPE OF WORK.

**NOTE**

- PATCH AND MAKE GOOD GOUAGES, HOLES AND MARKS ON EXISTING WALLS TO REMAIN.
- ENSURE CONTINUITY OF ALL FIRE SEPARATIONS, FIRE STOPPING AT ALL JOINTS AND PENETRATIONS THROUGH FIRE SEPARATIONS.
- WHERE THERE IS DIFFERENCE IN CEILING HEIGHTS, COVER VERTICAL EDGES OF THE RECESSED CEILING WITH DRYWALL CEILING FRAMING/PANELS. PREPARE TO RECEIVE PRIMER AND PAINT.
- REFER TO LINTEL, SLOPE AND SIZE OF CHANNEL.
- REFER TO MECHANICAL DRAWINGS FOR RELOCATION OF EXISTING DUCTWORK, DIFFUSERS AND POLES ABOVE THE CEILING.
- REFER TO MECHANICAL DRAWINGS FOR LOCATION OF SMOKE DETECTORS.
- CONTRACTOR TO VERIFY AND COORDINATE LOCATION, HEIGHT AND ORIENTATION OF CEILINGS.

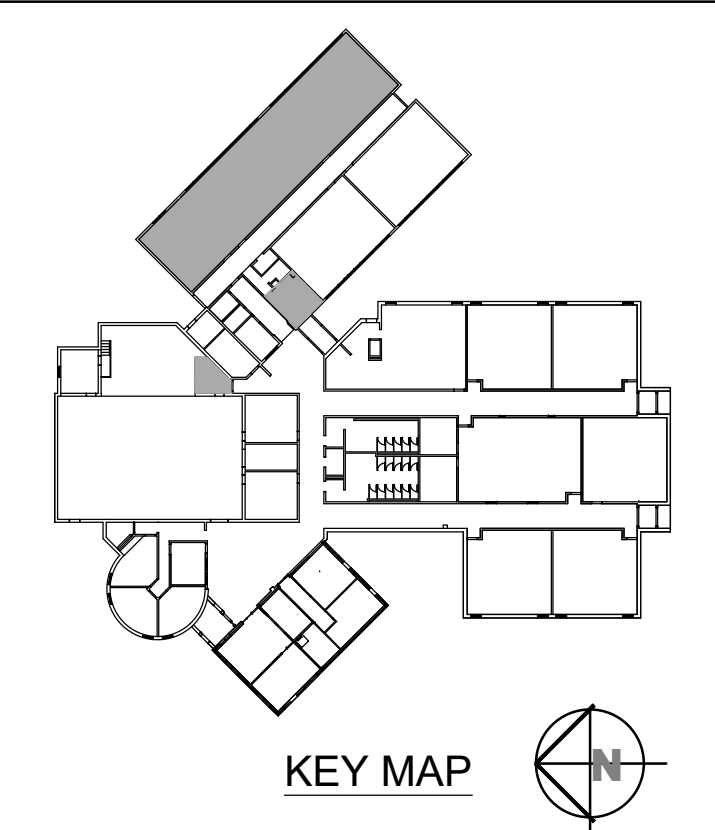
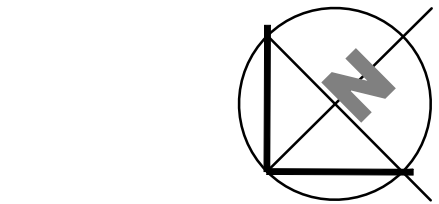
FOR LIGHTING IN SERVICE ROOMS SEE ELECTRICAL DRAWINGS

AT ALL EXPOSED MECHANICAL DUCT PENETRATIONS THROUGH  
SUSPENDED GYPSUM BOARD CEILINGS PROVIDE ANOD. ALUM.  
COLLAR REVEALS. REFER TO MECHANICAL DRAWINGS FOR DIAMETER  
AND LOCATION.

N AREAS WITH PARTIAL AND/OR FLOATING CEILINGS ENTIRE ARCHITECTURAL CONC. SLAB ABOVE TO BE SEALED WITH WALL GLAZE AS PER ROOM FINISH SCHEDULE.

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ACT ACOUSTIC CEILING TILE  
GB GYPSUM BOARD  
EX EXISTING



ISSUED FOR RE-TENDER	JAN11, 2021
ISSUED FOR PERMIT/TENDER	FEB25, 2020
SCOPE REDUC -LIFT, CLIENT REVIEW	OCT25, 2019
SUBMITTED FOR TENDER & PERMIT	JULY 5, 2018
ISSUED FOR 99% DESIGN	JUNE 22, 2018
ISSUED FOR 66% DESIGN	JUNE 08, 2018
ISSUED FOR 33% DESIGN	MAY 22, 2018
ISSUED FOR CLIENT REVIEW	MAY 14, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINNY, ON



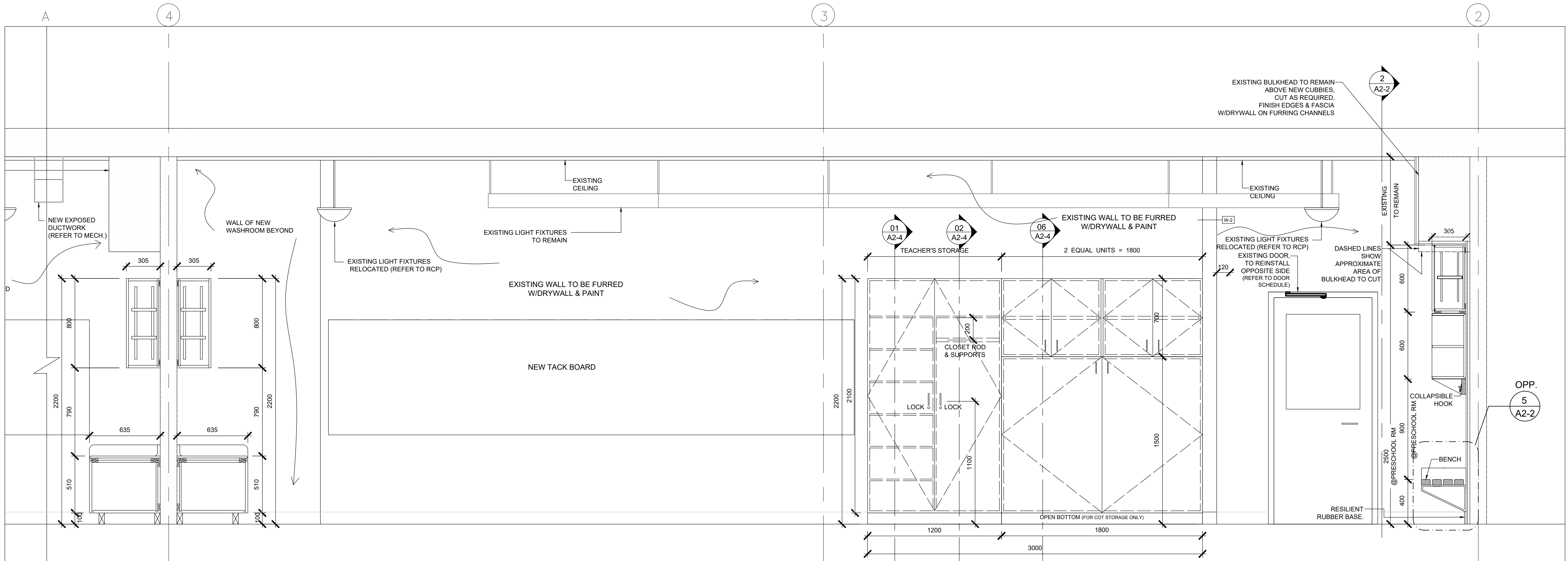
## SELECTIVE RCP NEW LAYOUTS ROOMS 120, 121, KITCHEN & LAUNDRY

# A1-4-2

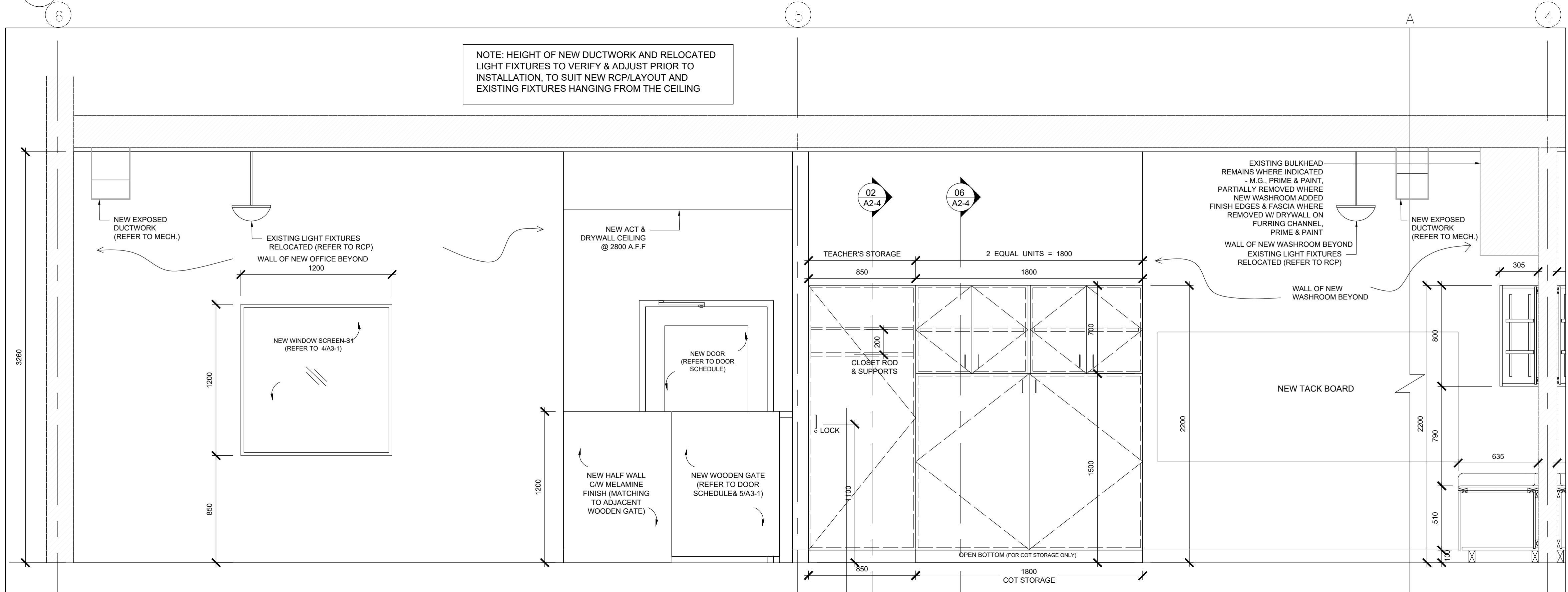
AS NOTED  
JUNE 2018

2018-11B





1  
A2-1  
SC. 1:20  
ROOM 120



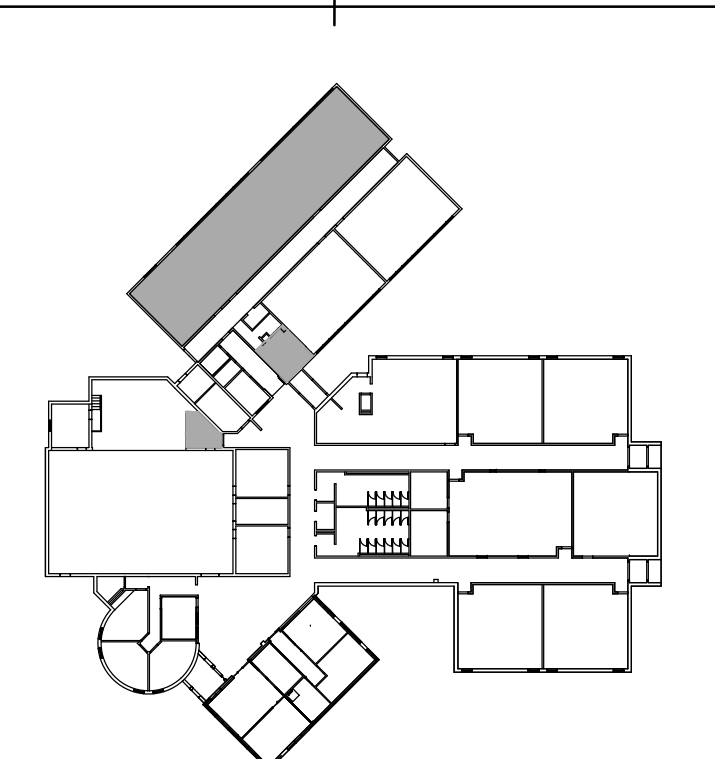
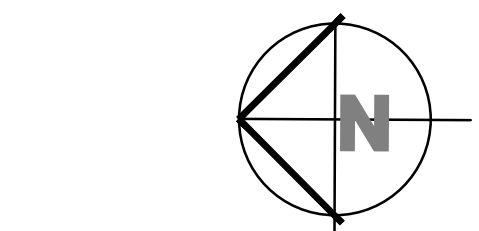
2  
A2-1  
SC. 1:20  
ROOM 121

#### NOTES

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#### LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



#### KEY MAP

ISSUED FOR RE-TENDER JAN11, 2021  
 ISSUED FOR PERMIT/TENDER FEB25, 2020  
 SCOPE REDUC. +LIFT, CLIENT REVIEW FEB19, 2020  
 SCOPE REDUC. +LIFT, CLIENT REVIEW OCT25, 2019  
 SUBMITTED FOR TENDER & PERMIT JULY 5, 2018  
 ISSUED FOR 99% DESIGN JUNE 22, 2018  
 ISSUED FOR 66% DESIGN JUNE 08, 2018



EEC- STE. CROIX DAYCARE  
 INTERIOR RENOVATIONS  
 TINY, ON



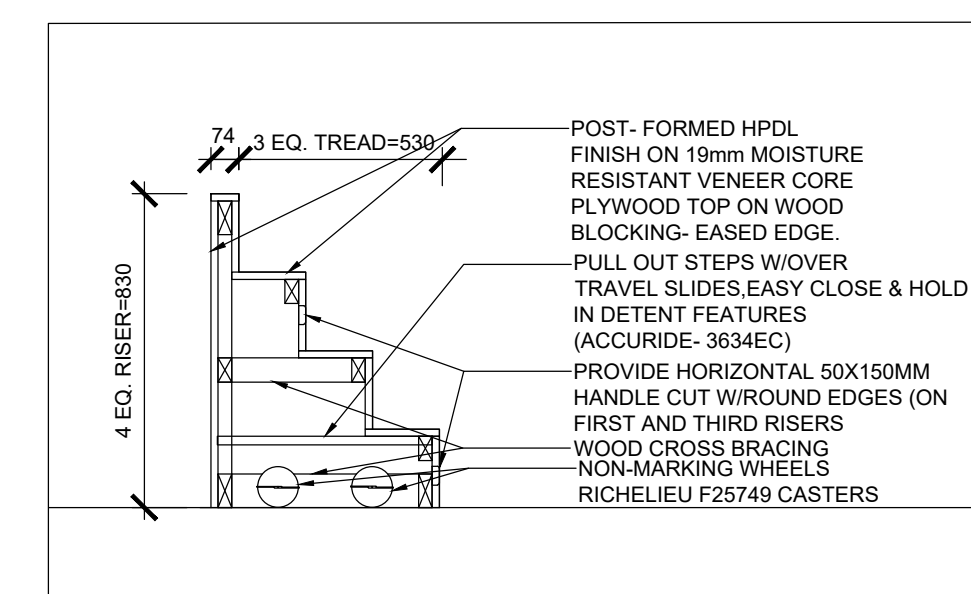
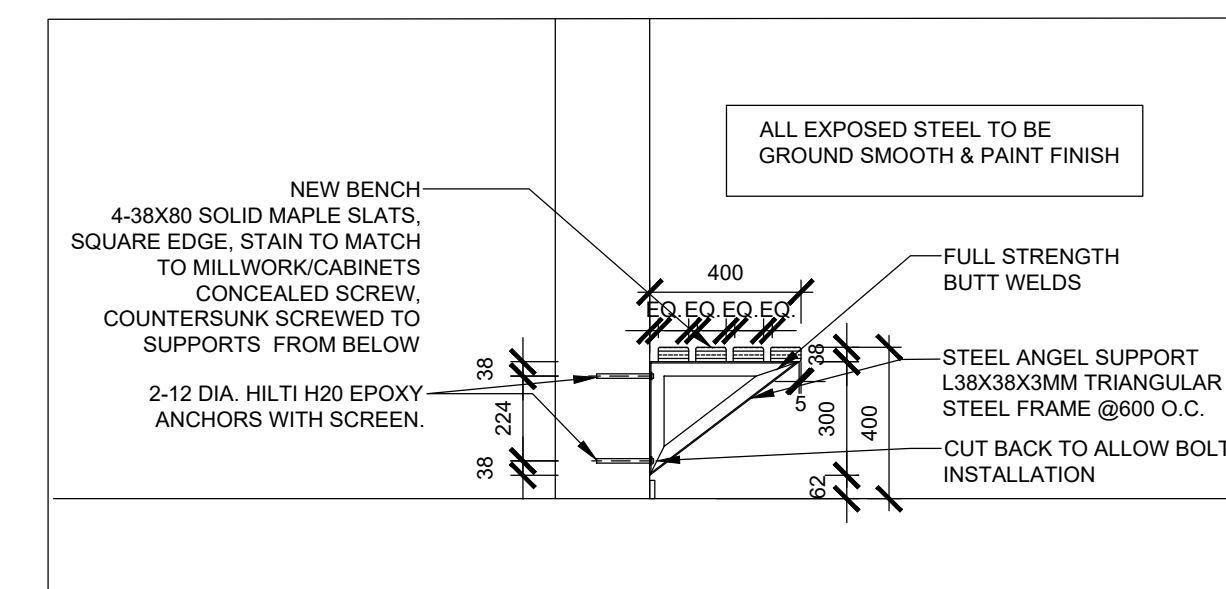
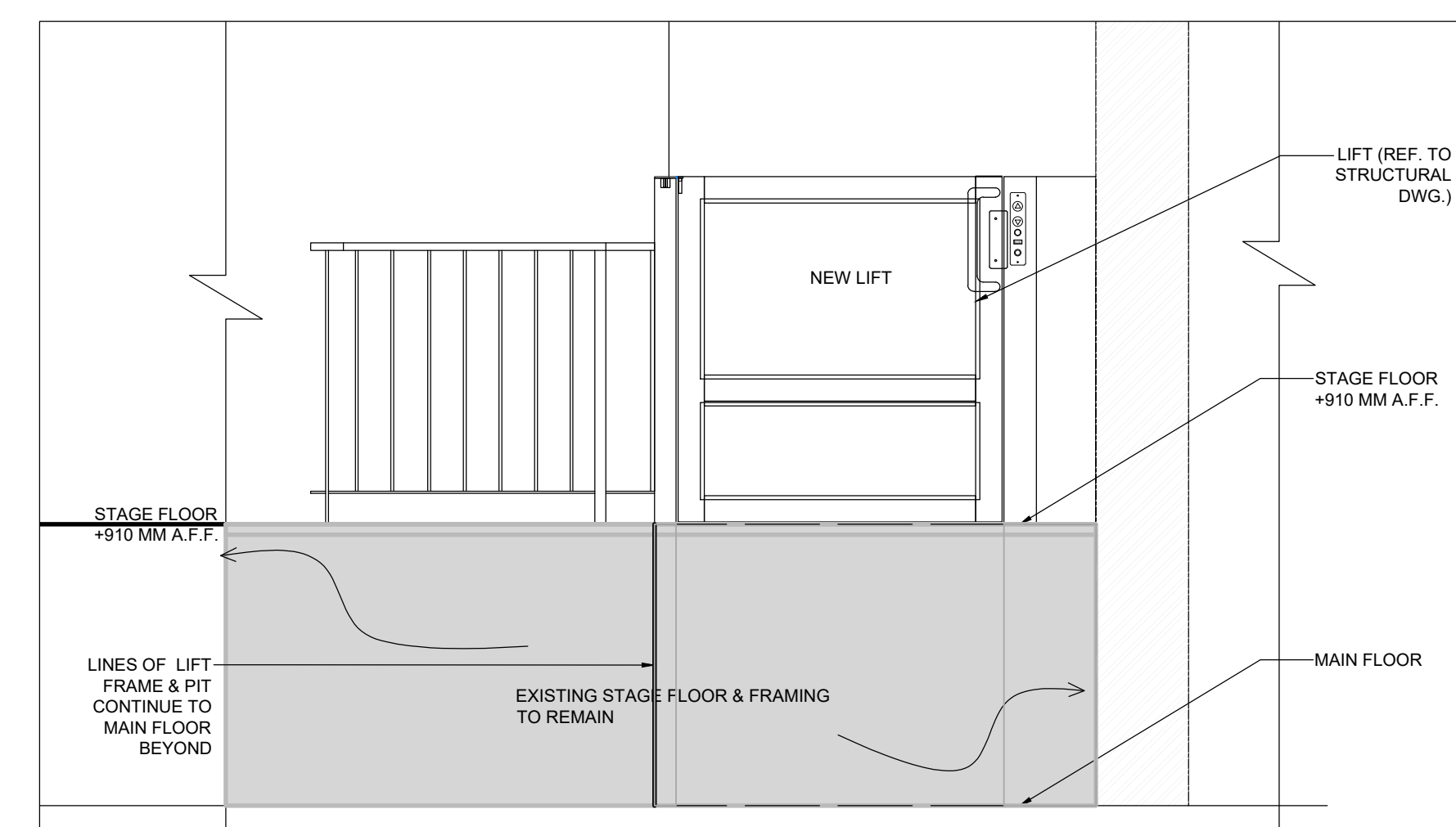
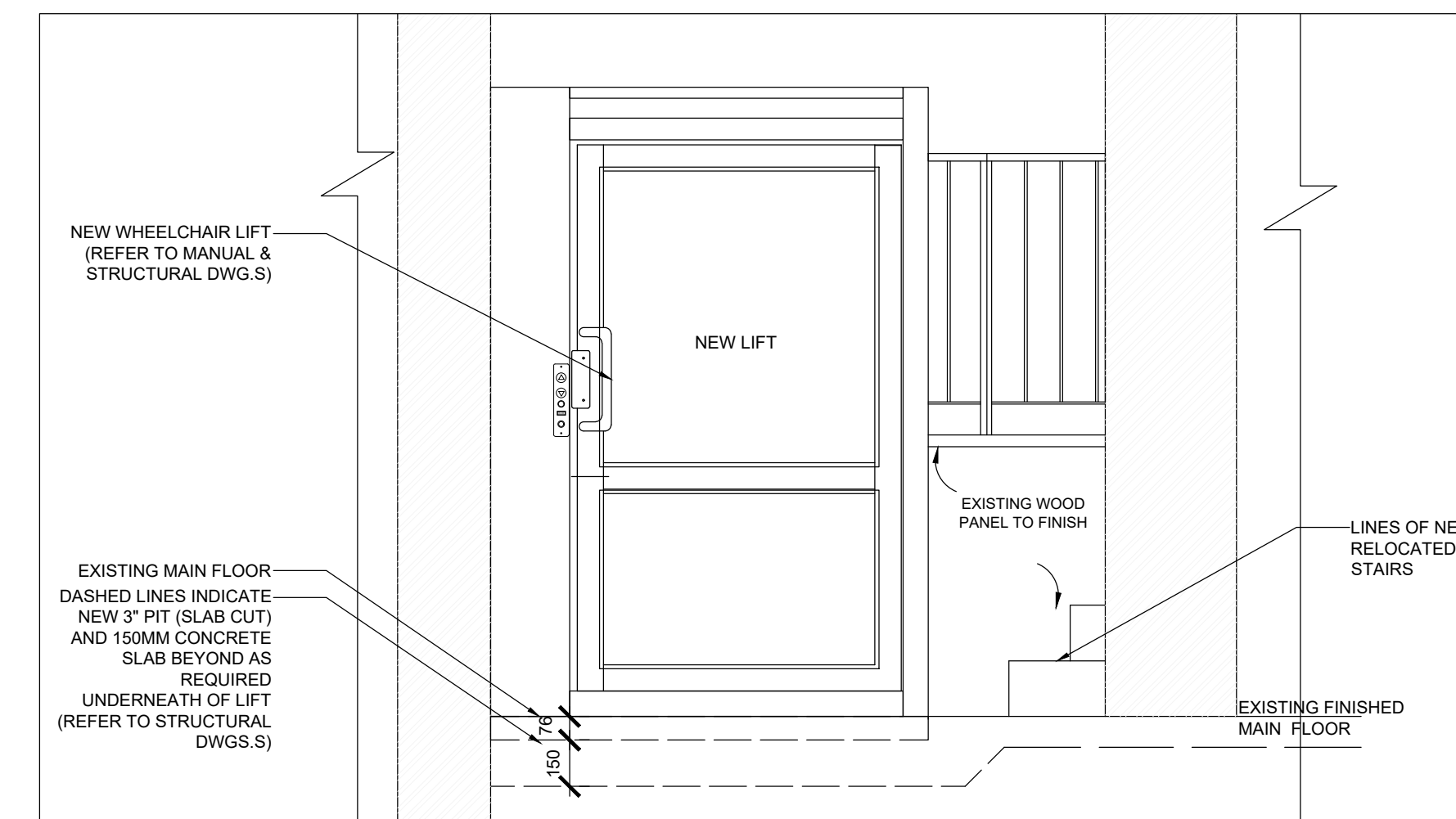
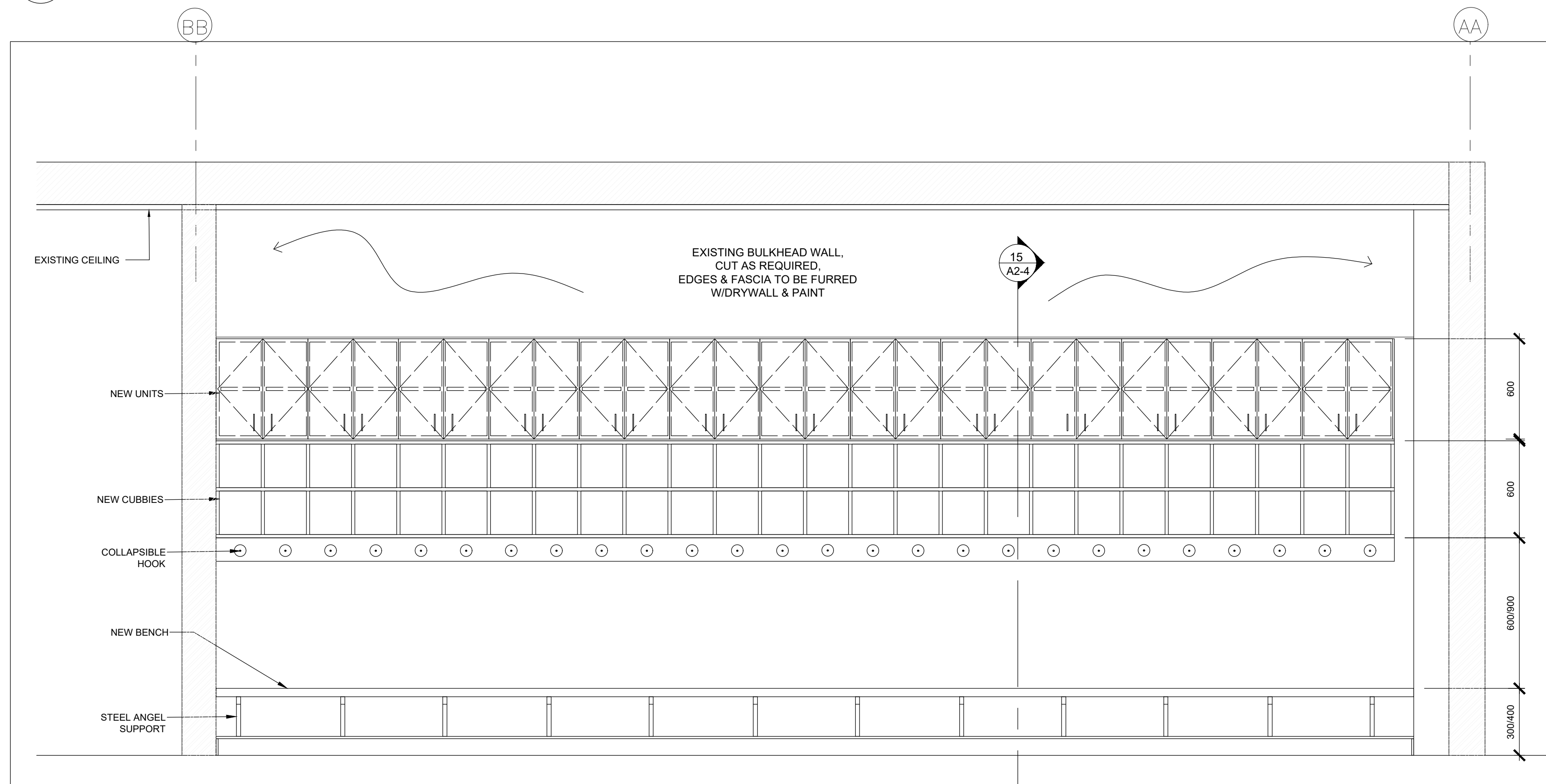
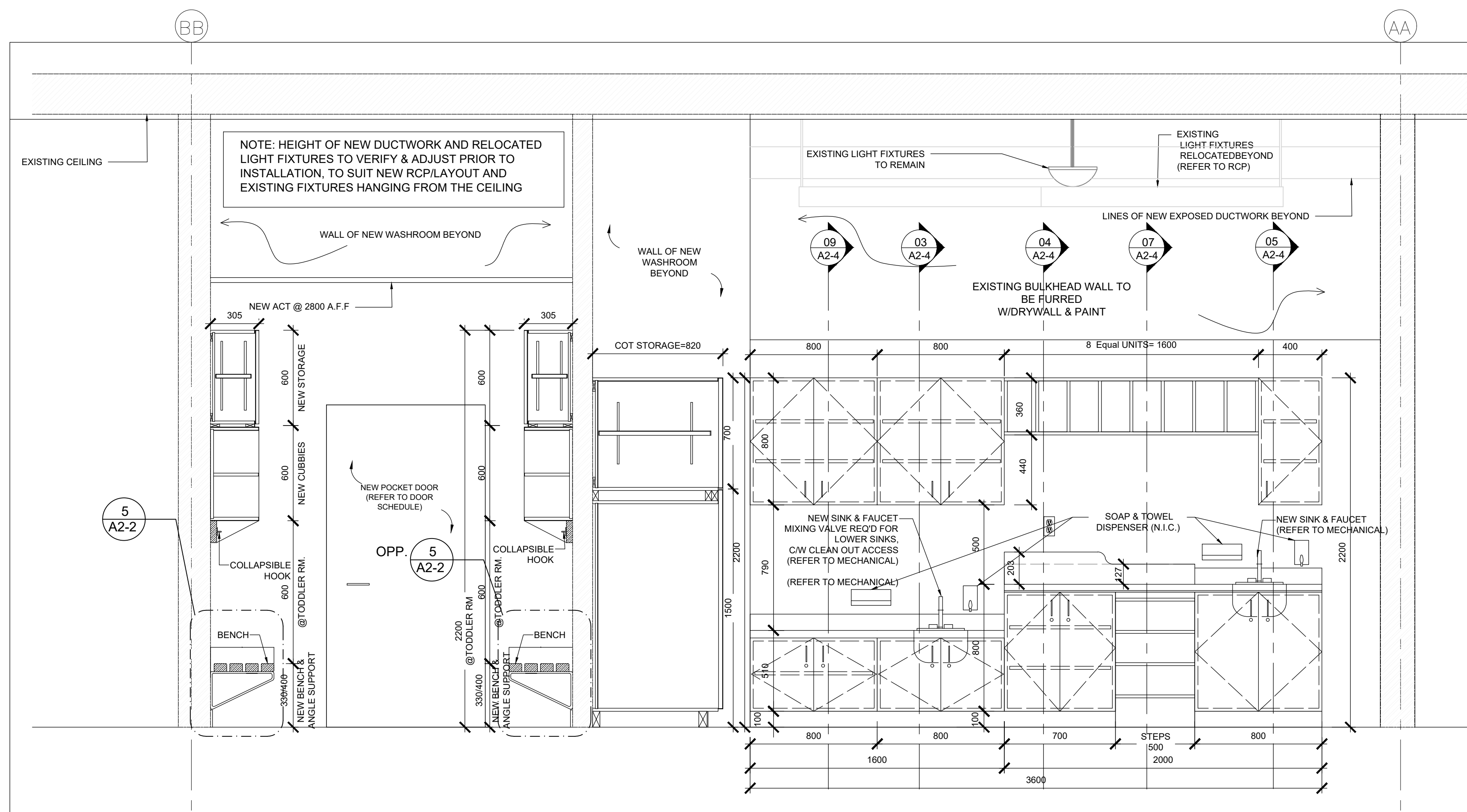
INTERIOR SECTION/ ELEVATIONS

A2-1

AS NOTED  
 MAY 2018

2017-06






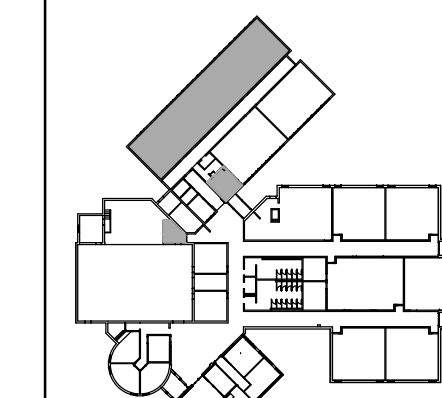
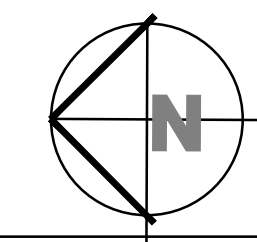


NOTES

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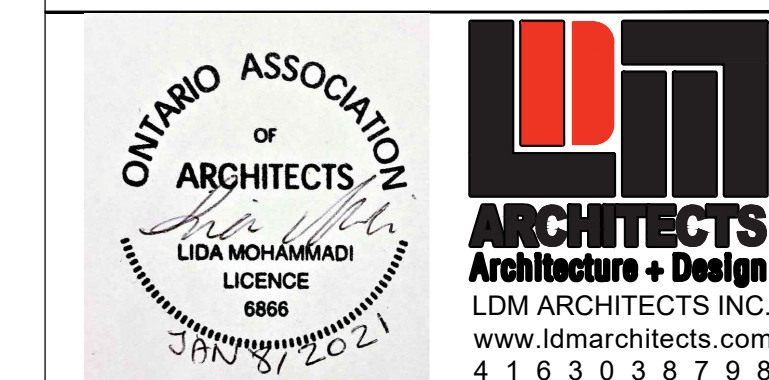
LEGEND

 EXISTING WALLS TO REMOVE  
 EXISTING WALLS TO REMAIN  
 NEW WALLS



KEY MAP

ISSUED FOR RE-TENDER	JAN11, 2021
ISSUED FOR PERMIT/TENDER	FEB25, 2020
SCOPE REDUC.+LIFT,CLIENT REVIEW	JAN24, 2020
SCOPE REDUC.+LIFT,CLIENT REVIEW	OCT25, 2019
SUBMITTED FOR TENDER & PERMIT	JULY 5, 2018
ISSUED FOR 99% DESIGN	JUNE 22, 2018
ISSUED FOR 66% DESIGN	JUNE 08, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



INTERIOR SECTION/ ELEVATIONS

**A2-2**

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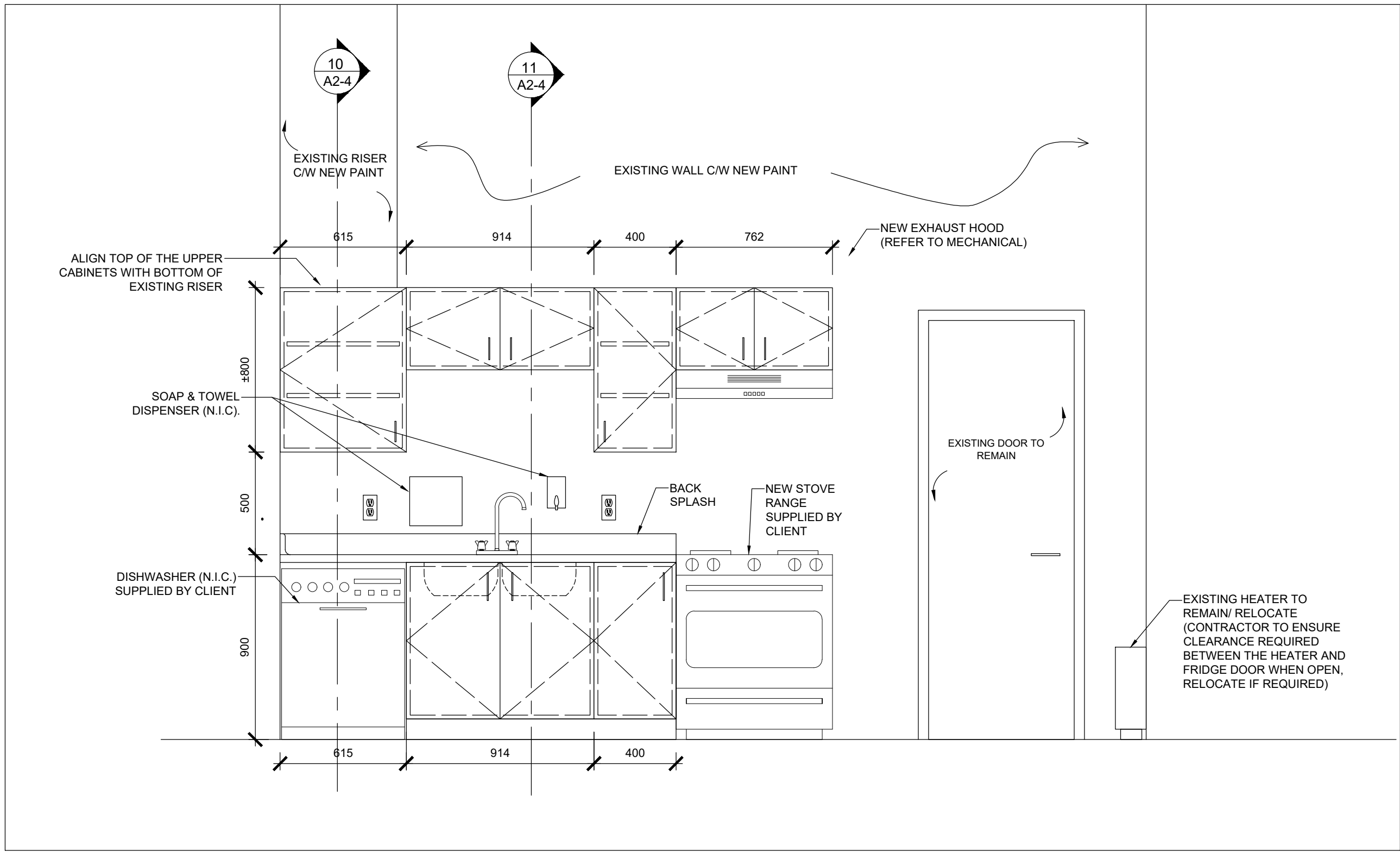
AS NOTED

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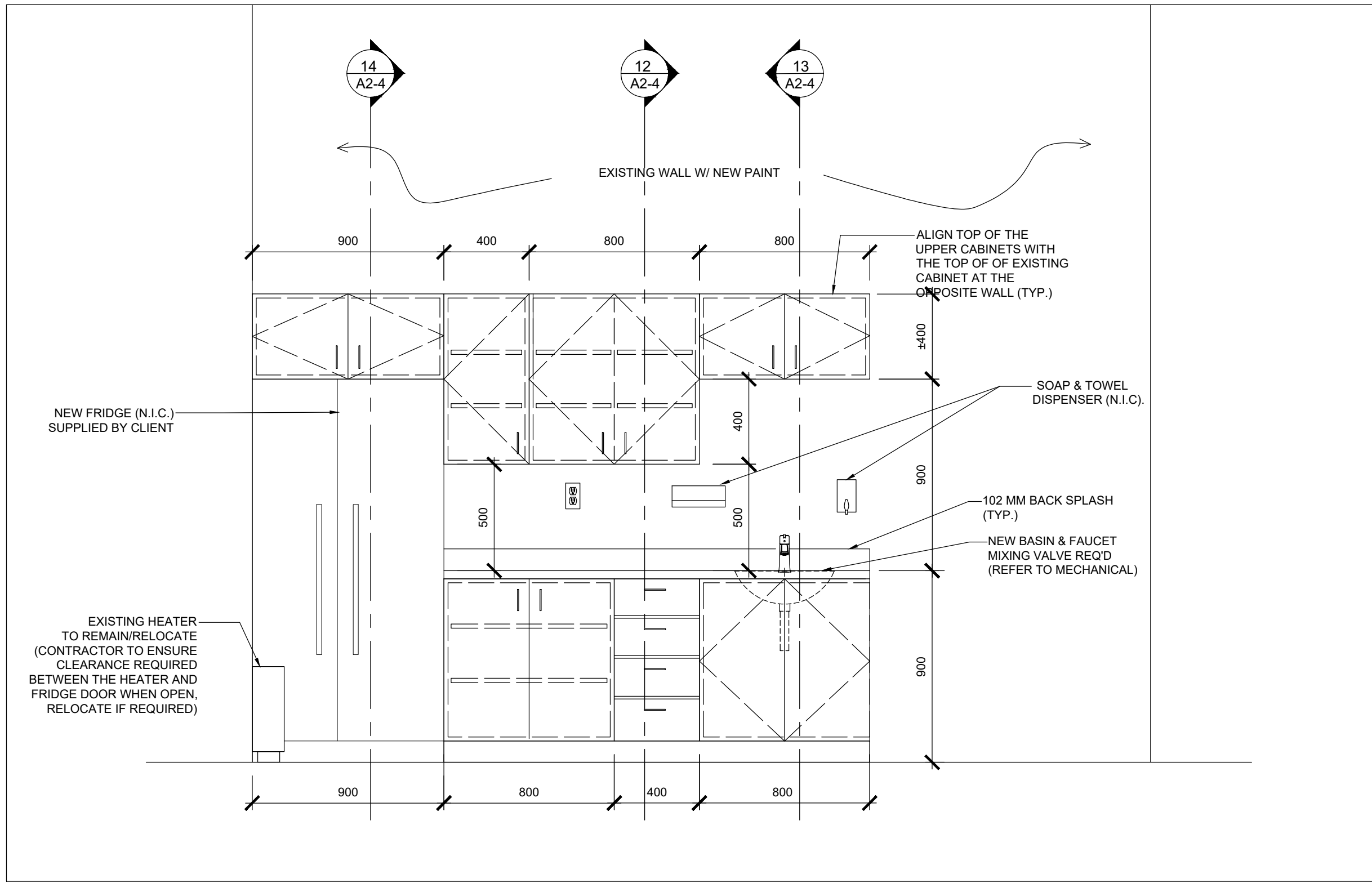
MAY 2018

2017-06

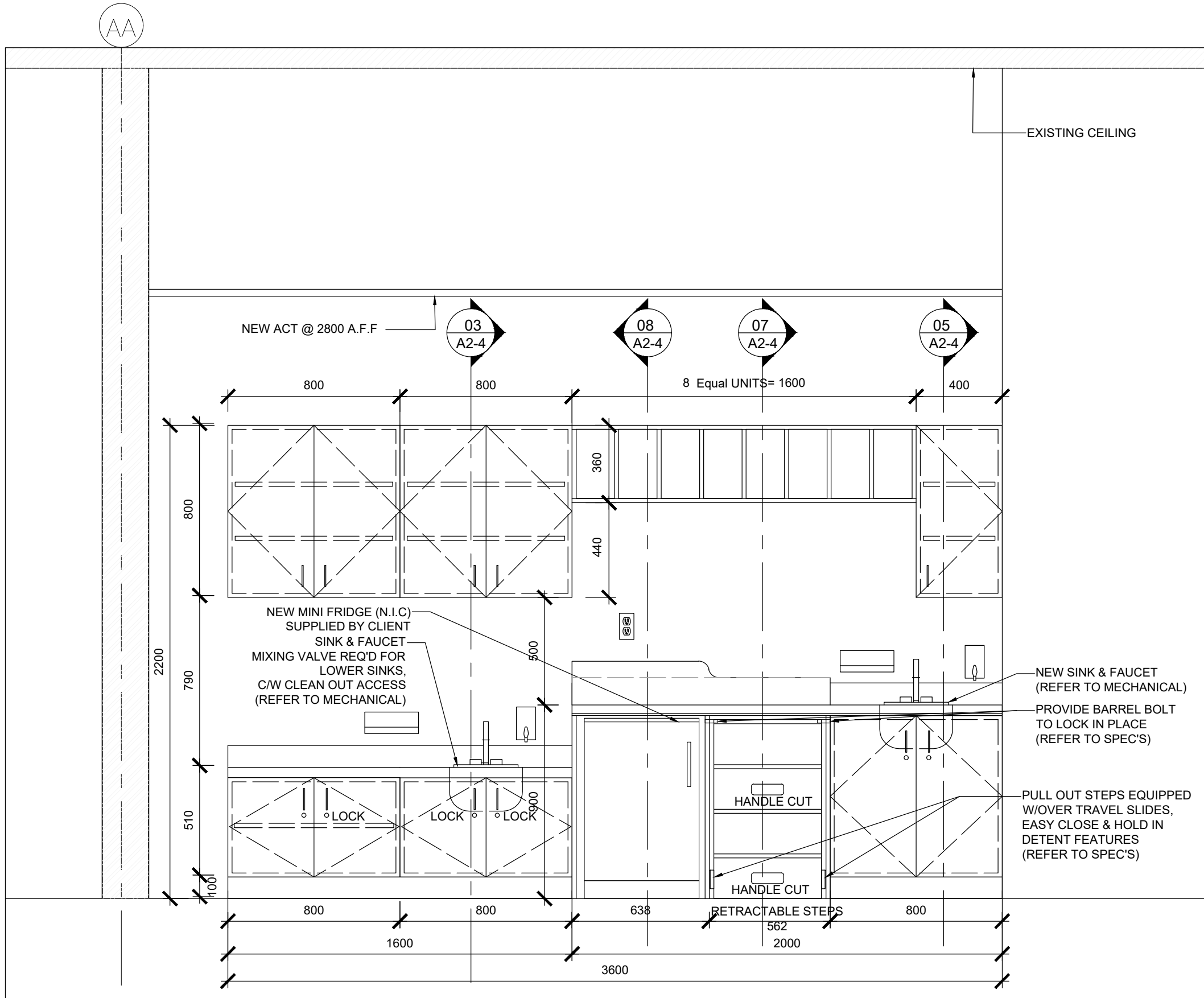




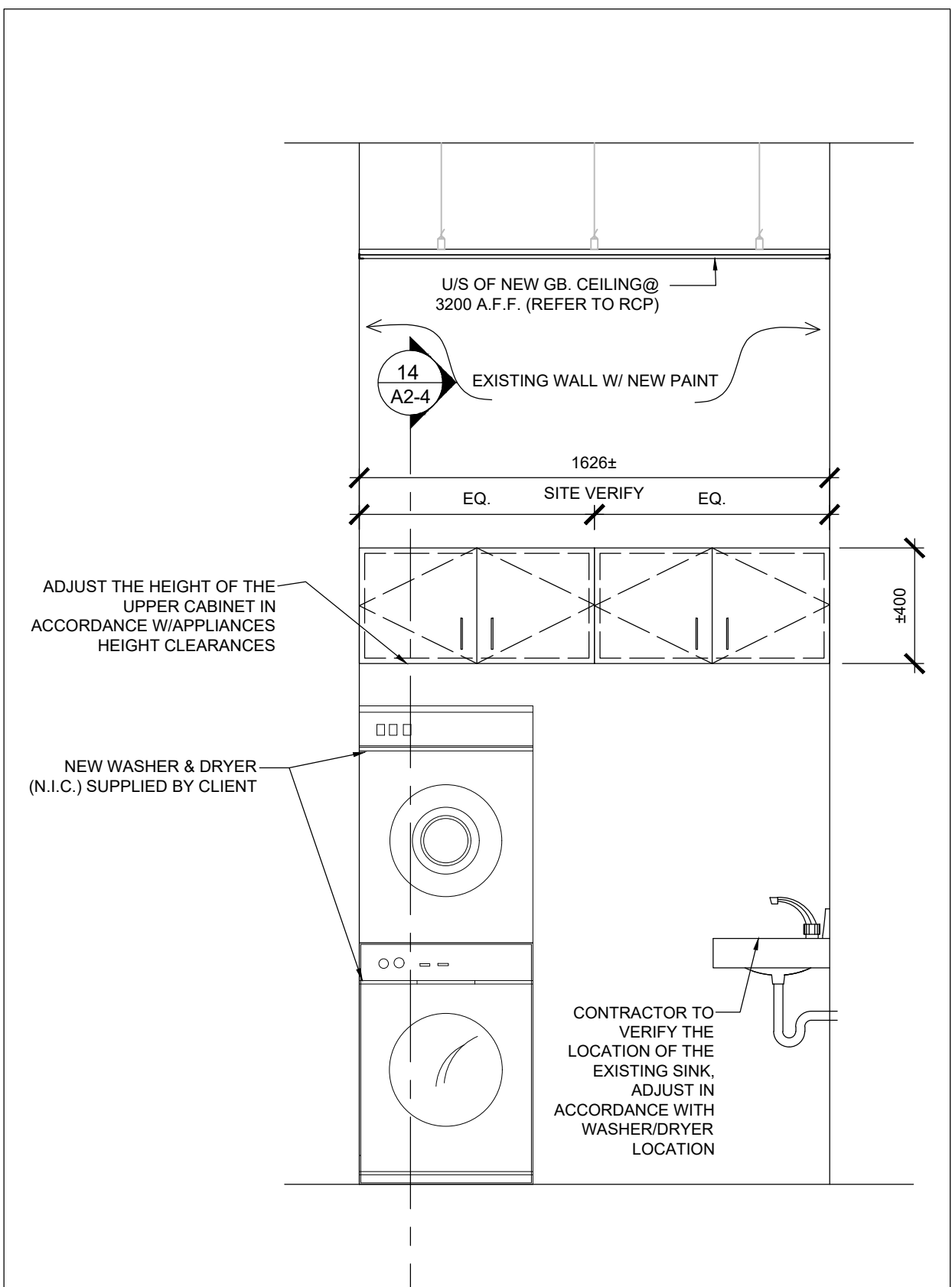
1  
A2-3  
INTERIOR ELEVATION-KITCHEN  
SC. 1:20  
ROOM 48



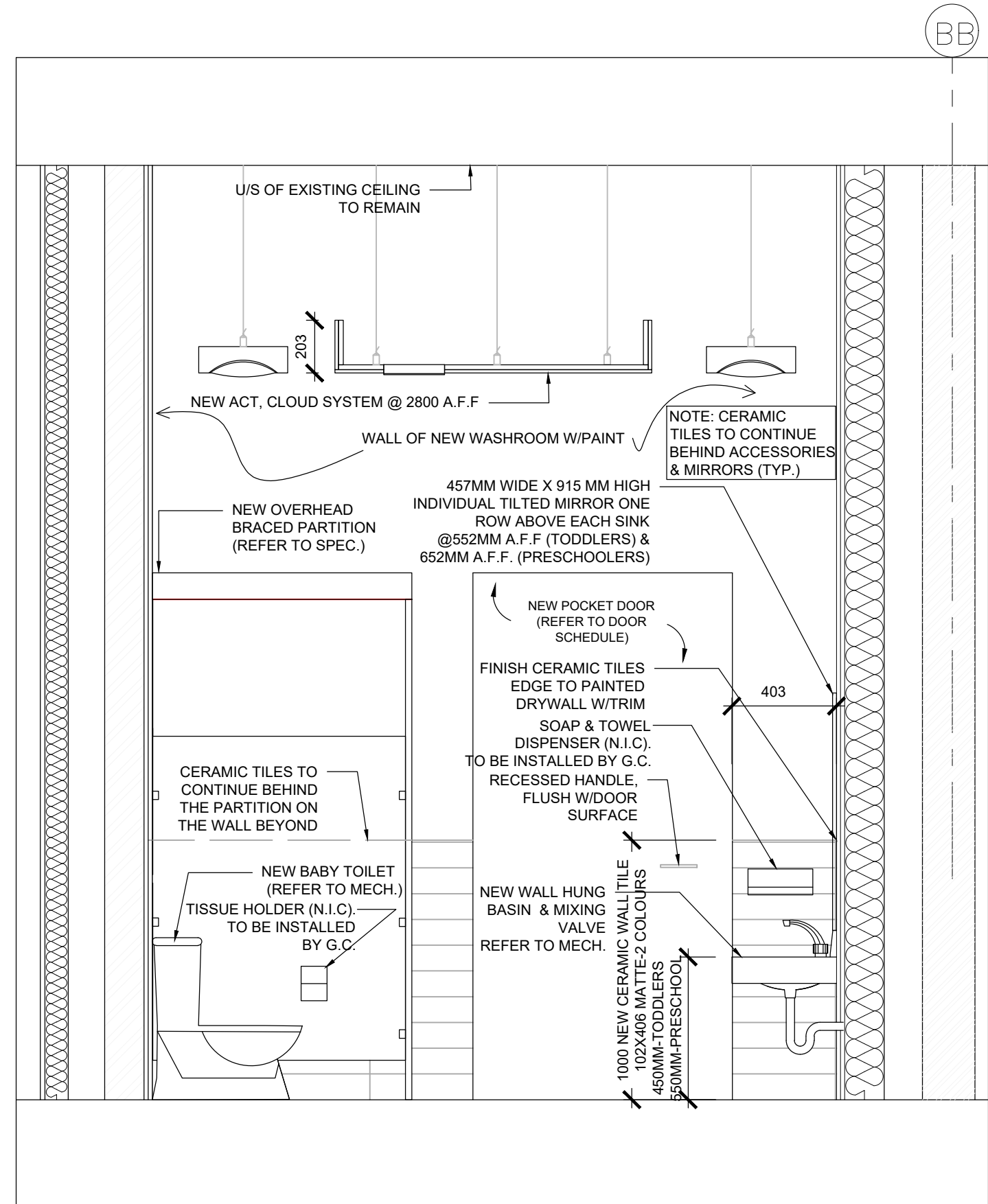
2  
A2-3  
INTERIOR ELEVATION-KITCHEN  
SC. 1:20  
ROOM 48



3  
A2-3  
INTERIOR ELEVATION  
SC. 1:20  
ROOM 120



4  
A2-3  
LAUNDRY ELEVATION  
SC. 1:20  
ROOM 50



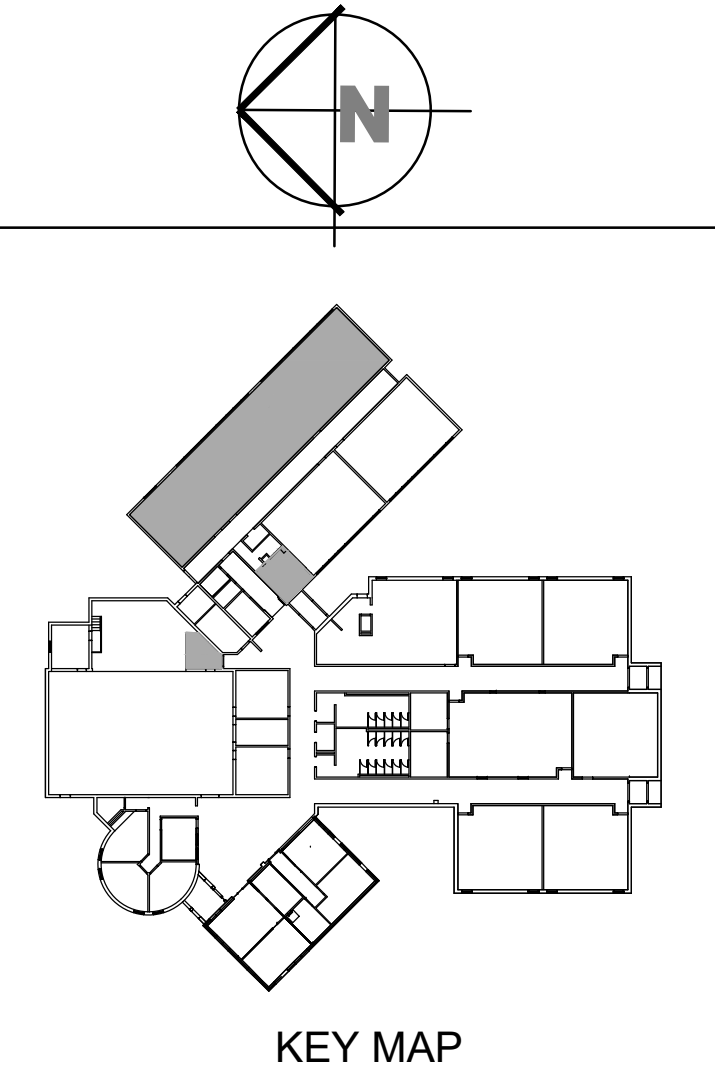
5  
A2-3  
NEW WASHROOM  
SC. 1:20  
ROOM 121D

NOTES

- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
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LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



KEY MAP

ISSUED FOR RE-TENDER JAN11, 2021

ISSUED FOR PERMIT/TENDER FEB25, 2020

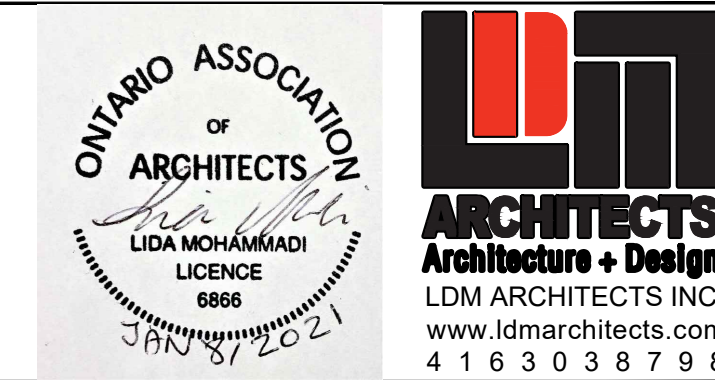
SCOPE REDUC. +LIFT, CLIENT REVIEW JAN24, 2020

SCOPE REDUC. +LIFT, CLIENT REVIEW OCT25, 2019

SUBMITTED FOR TENDER & PERMIT JULY 5, 2018

ISSUED FOR 99% DESIGN JUNE 22, 2018

ISSUED FOR 66% DESIGN JUNE 08, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



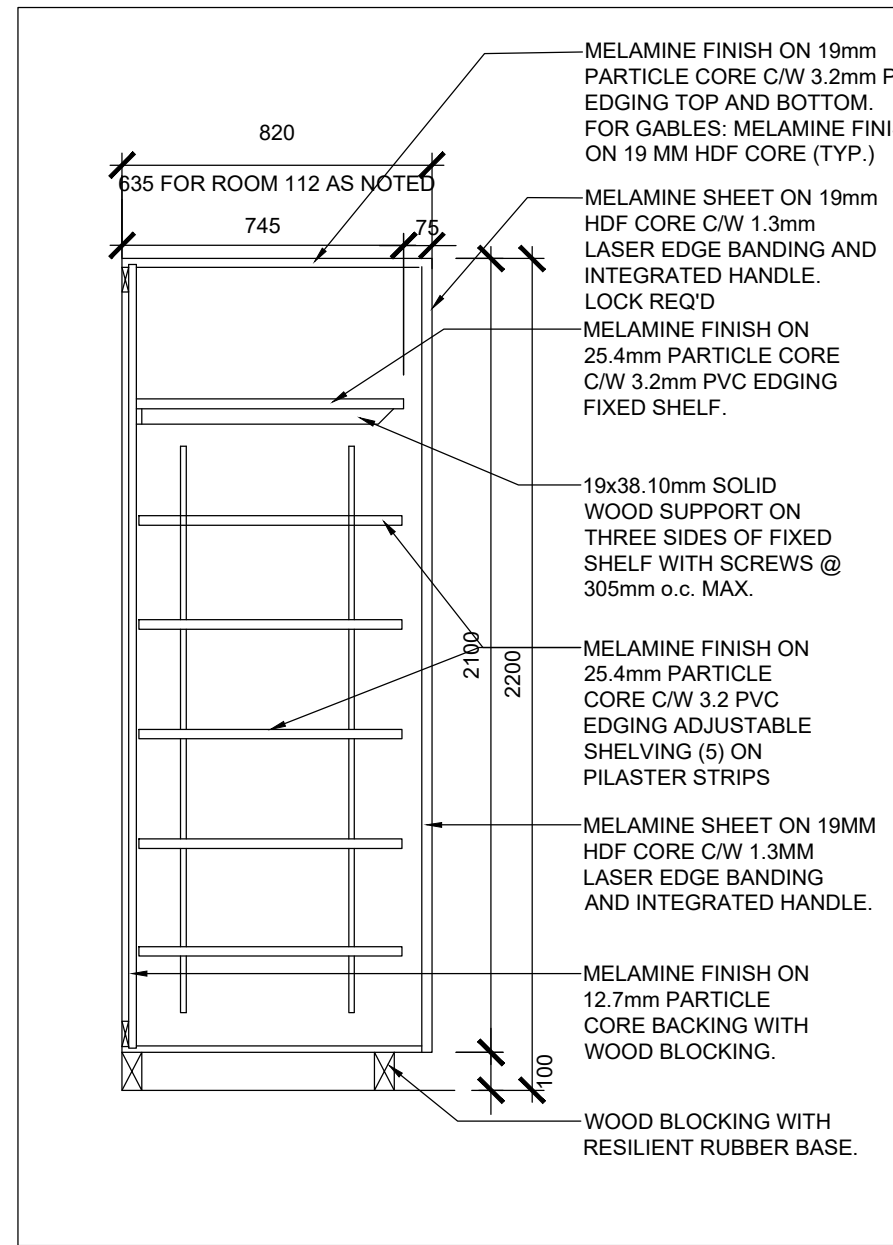
INTERIOR SECTION/ ELEVATIONS

A2-3

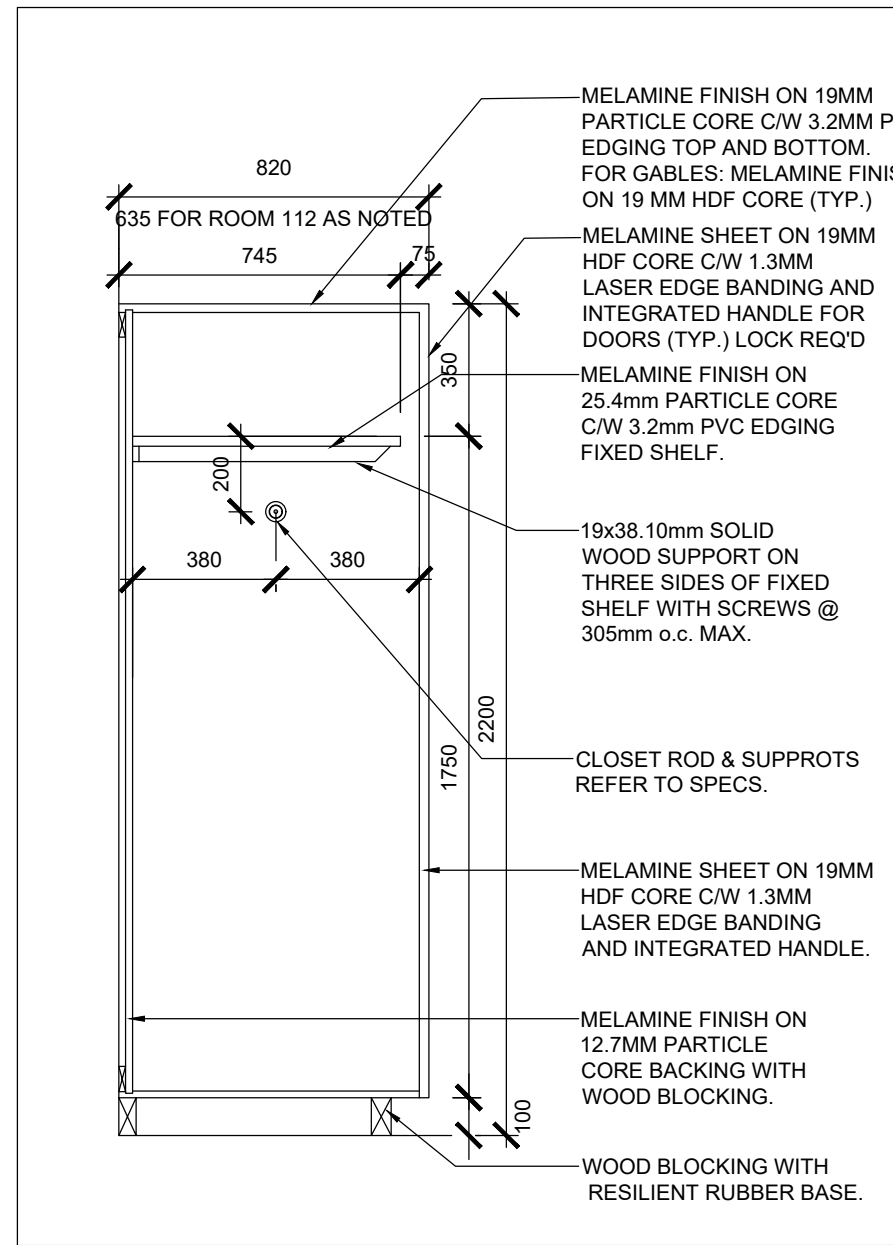
AS NOTED  
MAY 2018

2017-06

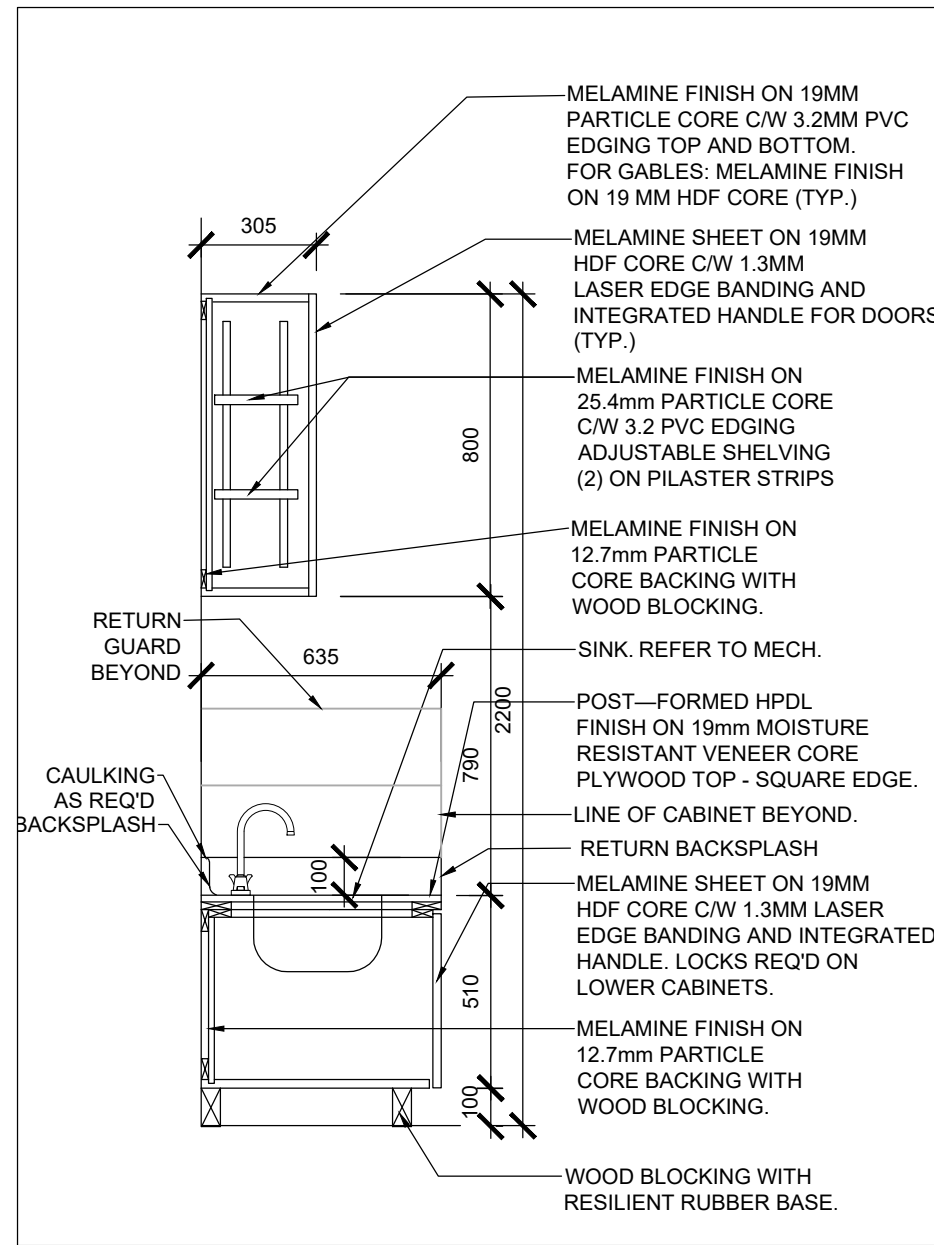




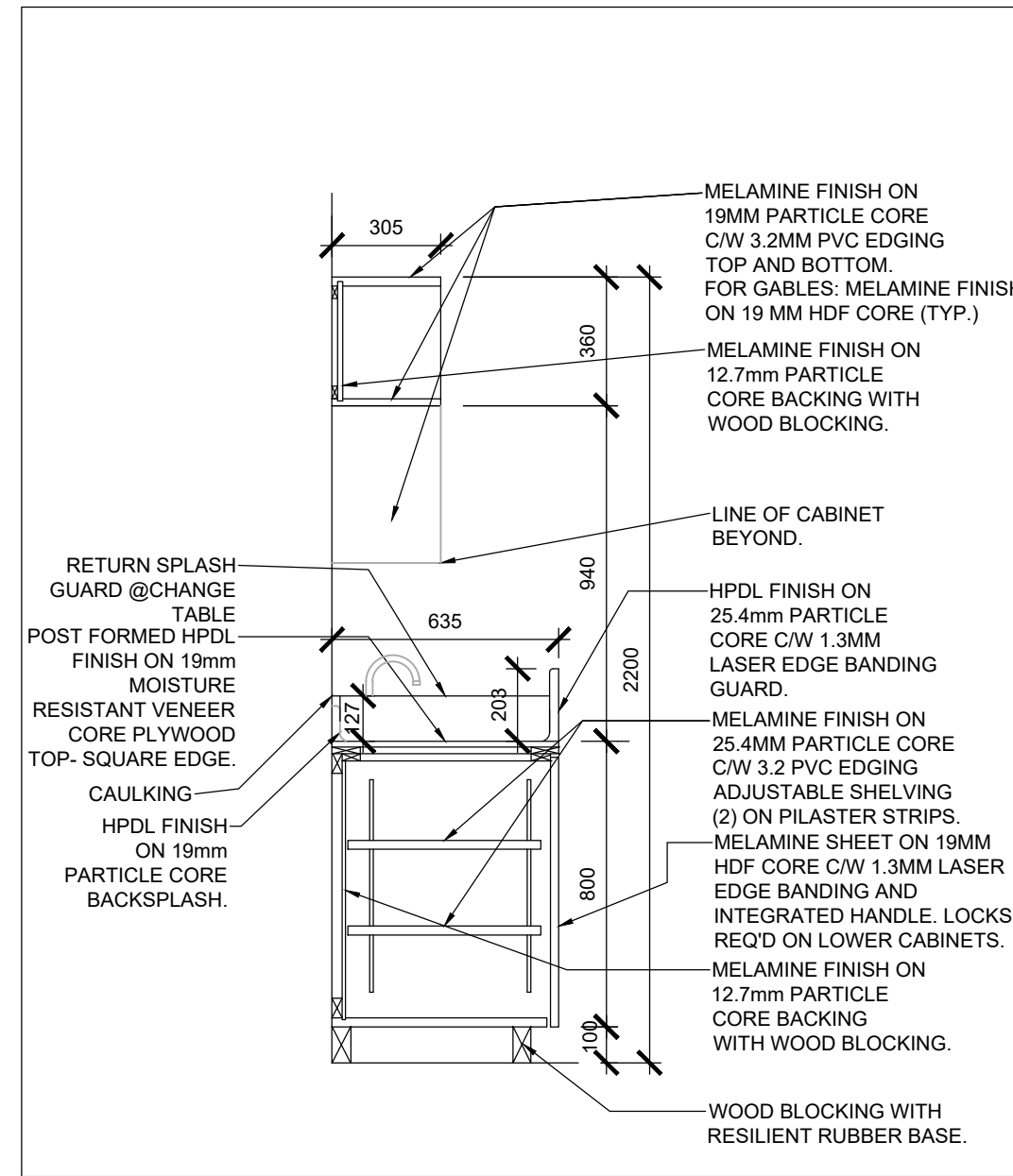
1 TYPICAL TEACHERS CLOSET  
A2-4 SECTION SC. 1:20



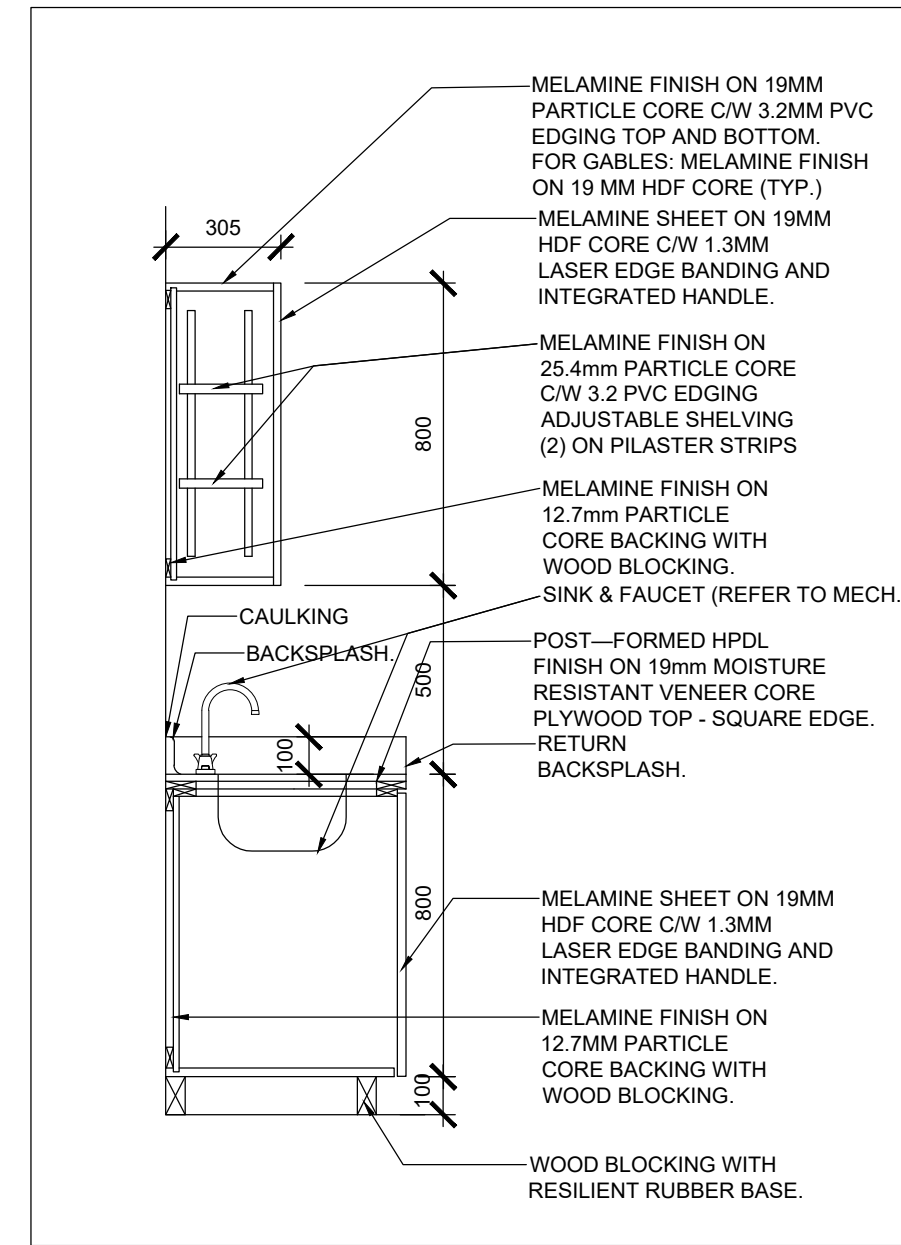
2 TYPICAL TEACHERS CLOSET  
A2-4 SECTION SC. 1:20



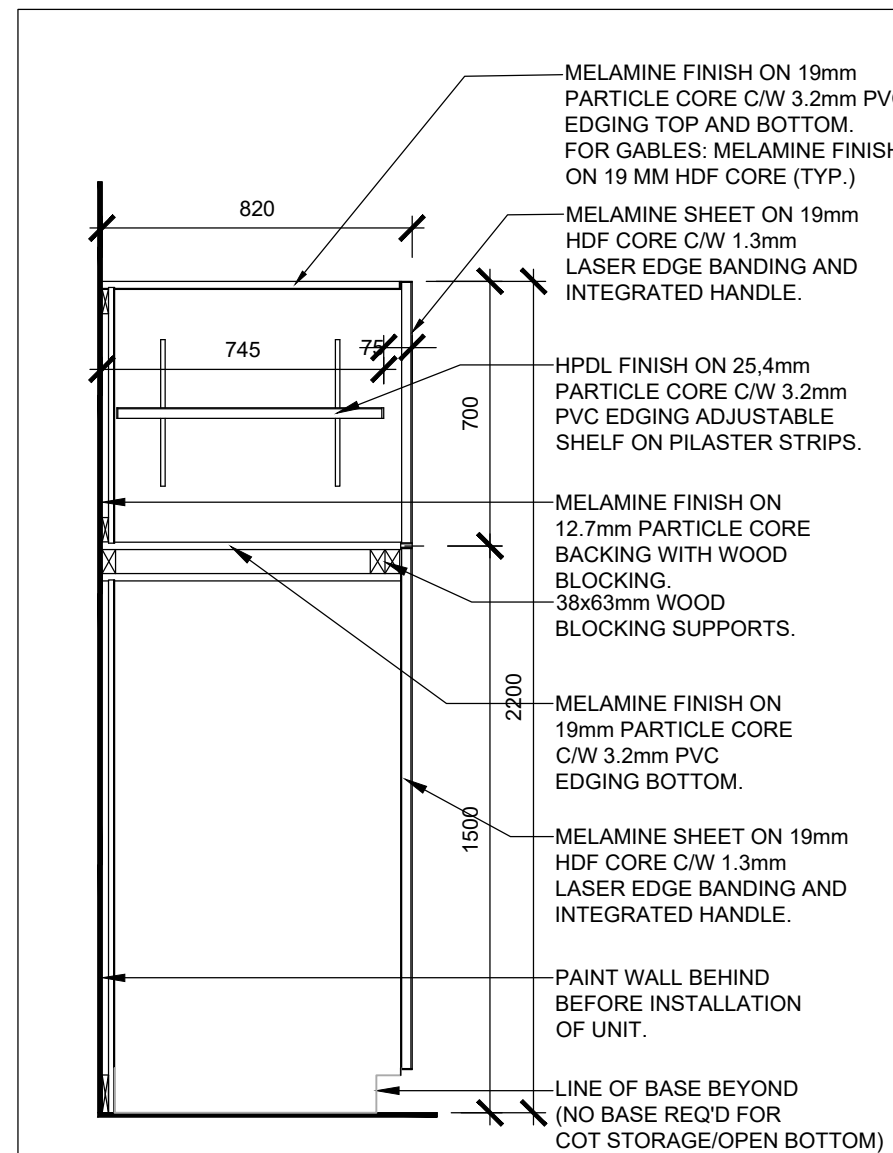
3 LOW COUNTER UNIT  
A2-4 SECTION - SINK UNIT SC. 1:20



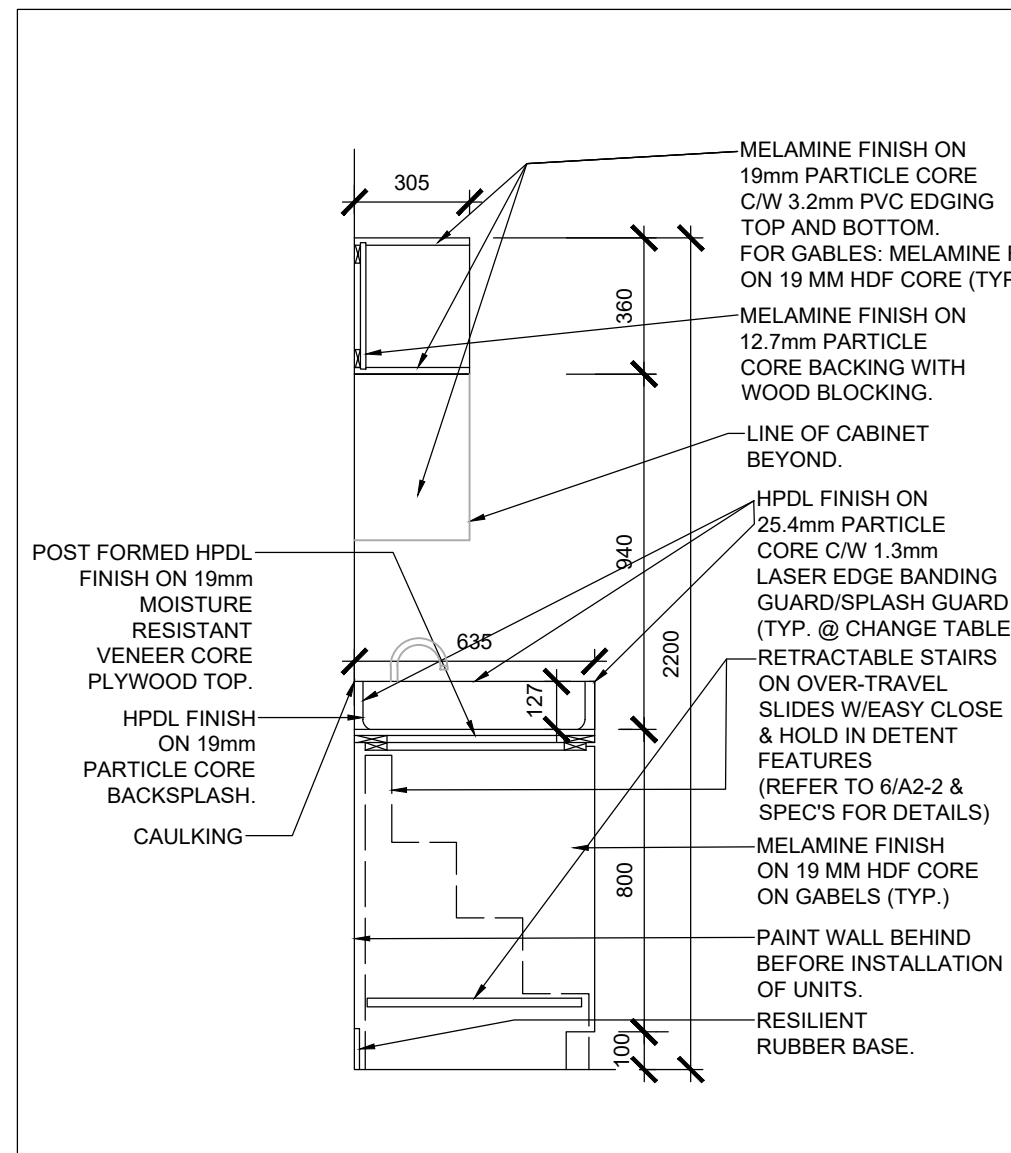
4 CHANGE TABLE W/ UPPER LOCKERS  
A2-4 SECTION - DOOR UNIT SC. 1:20



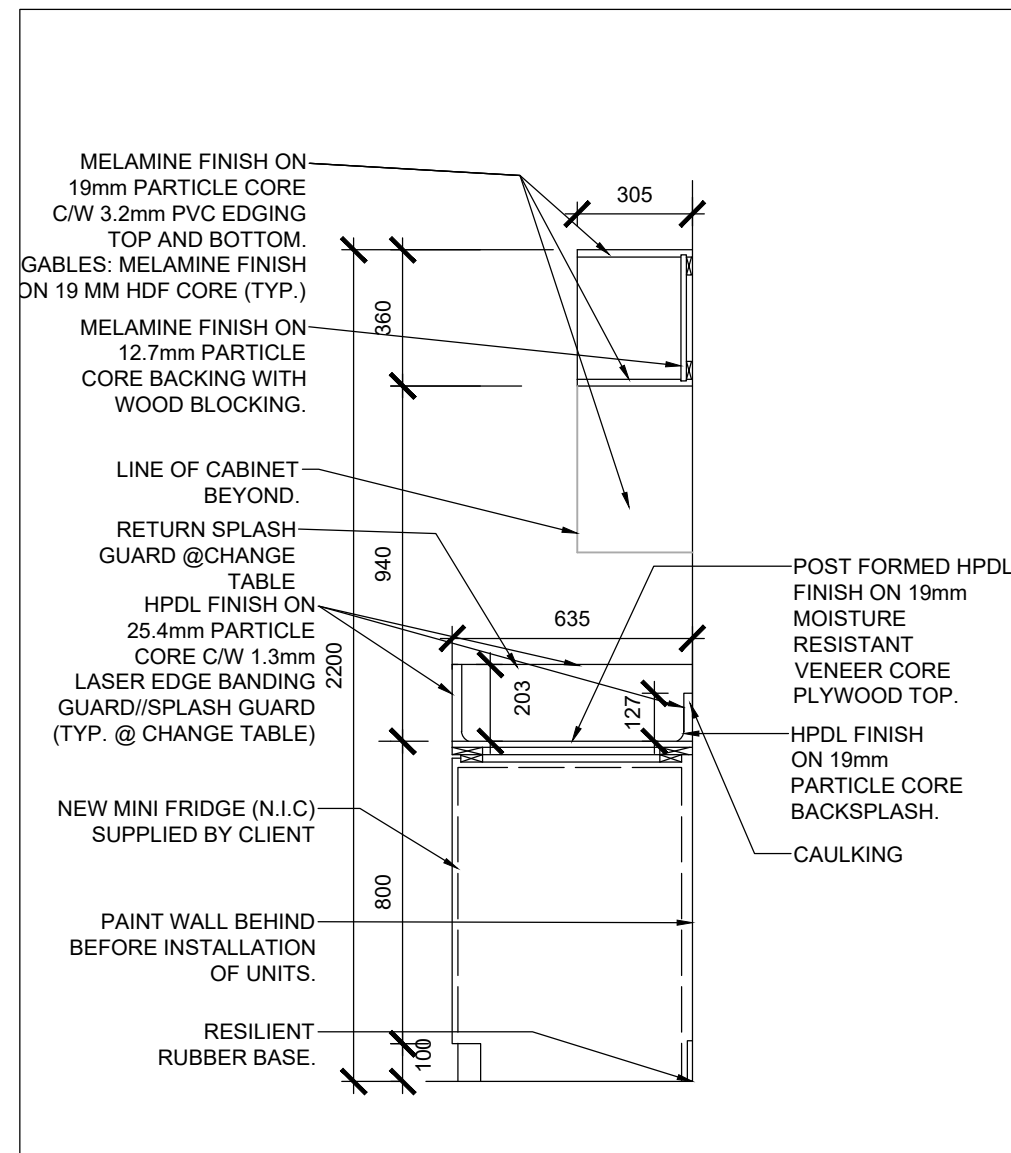
5 HIGH COUNTER UNIT  
A2-4 SECTION - SINK UNIT SC. 1:20



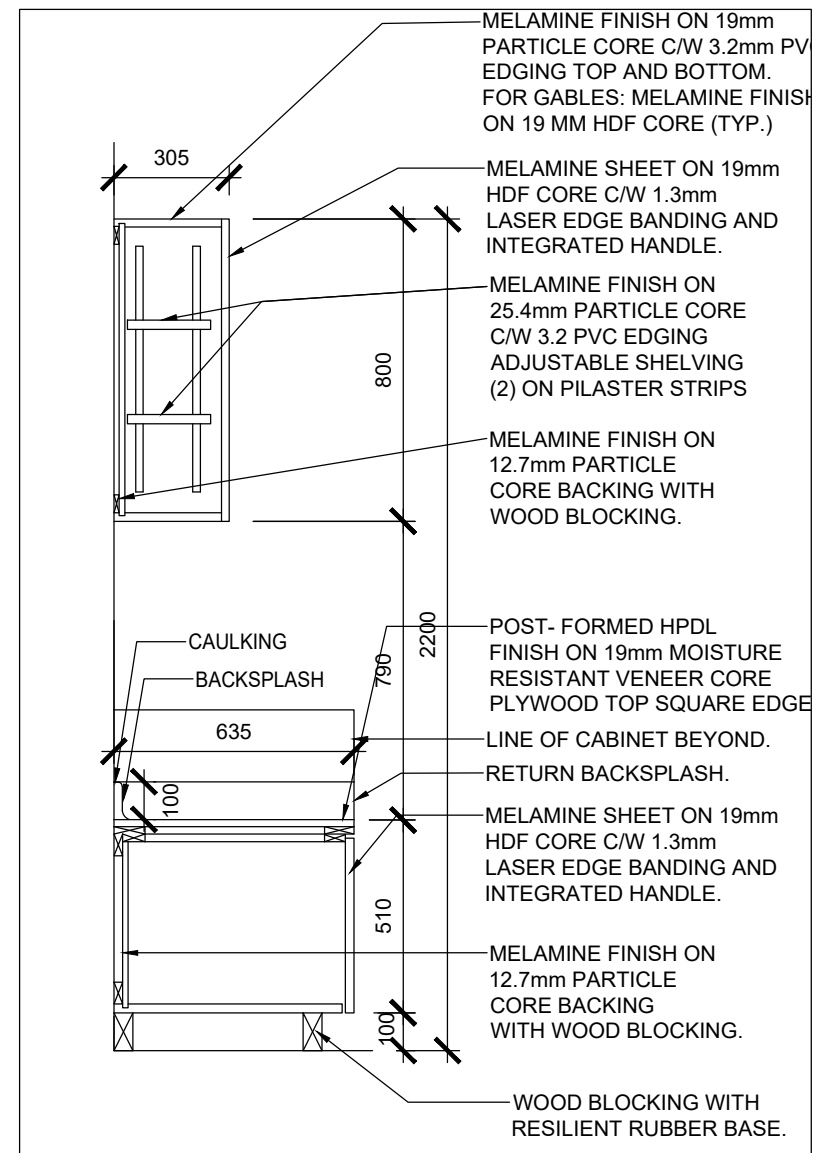
6 COT STORAGE UNIT  
A2-4 SECTION SC. 1:20



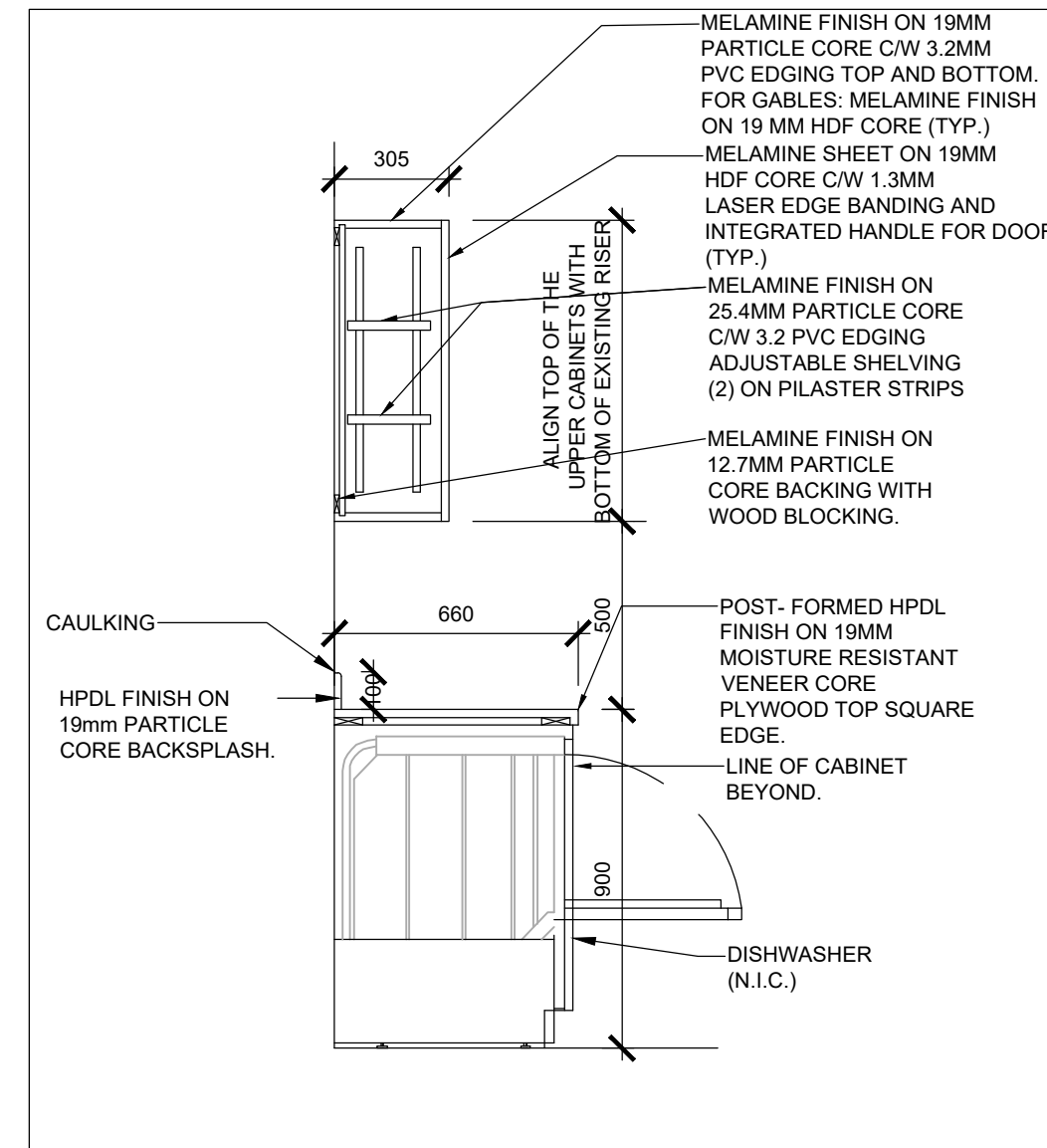
7 DAYCARE CHANGE COUNTER ABOVE STEPS  
A2-4 SECTION-STEP UNIT SC. 1:20



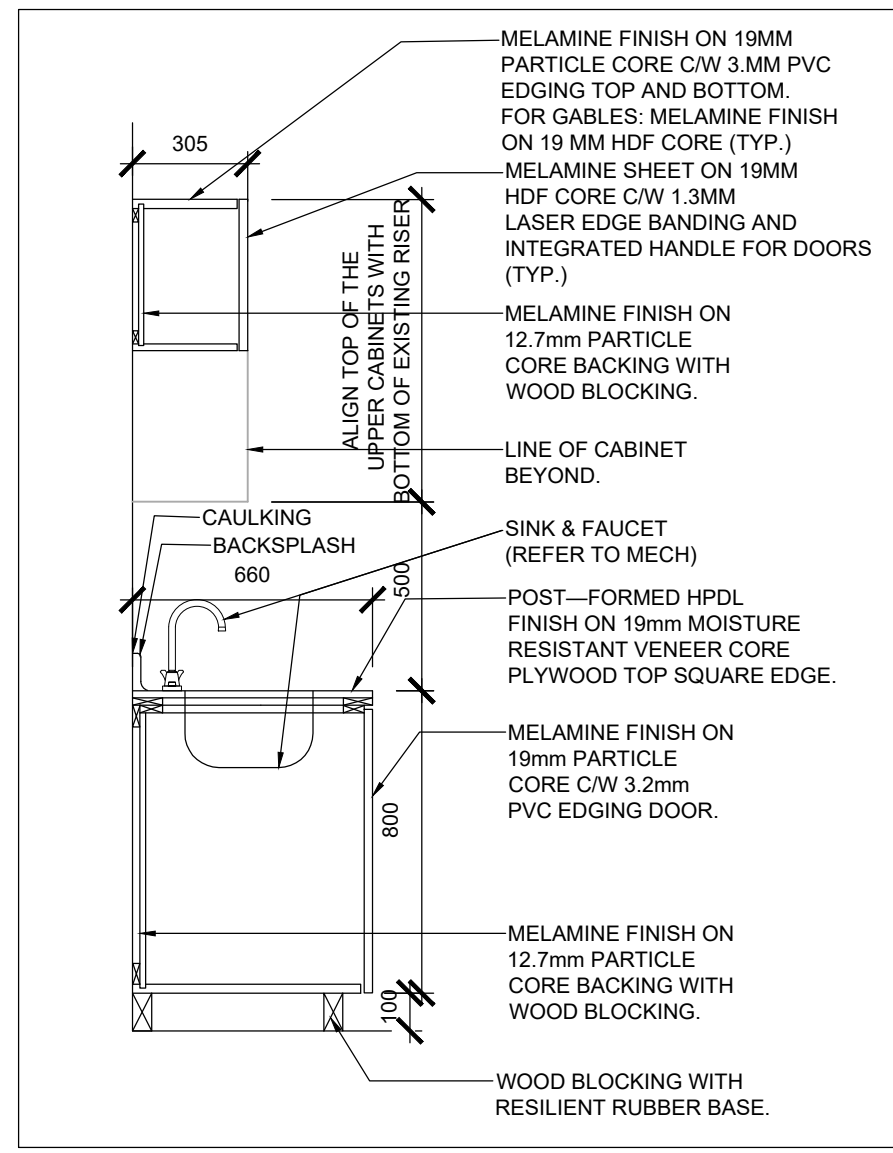
8 DAYCARE CHANGE COUNTER ABOVE MINI FRIDGE  
A2-4 SECTION-MINI FRIDGE UNIT SC. 1:20



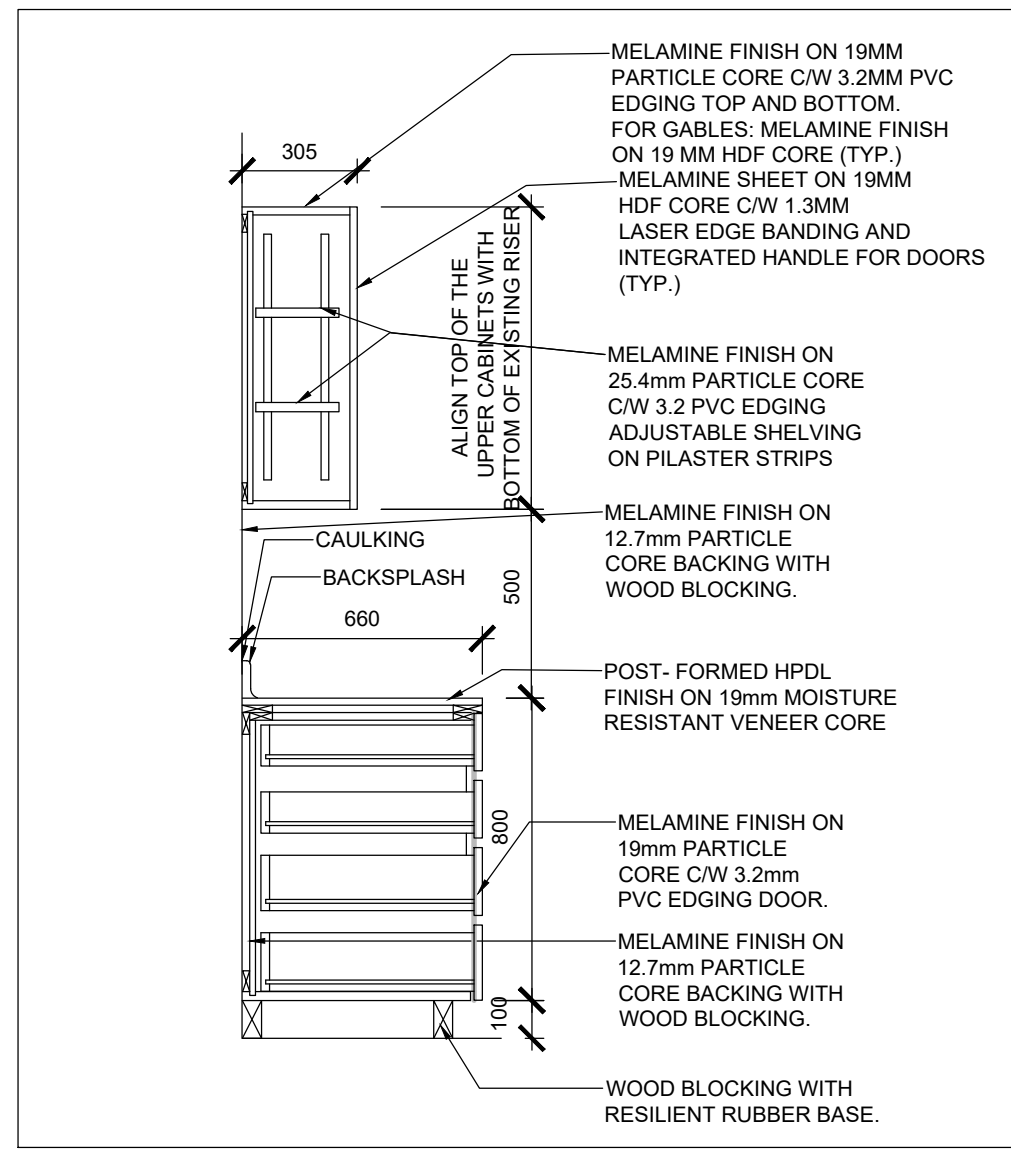
9 LOW COUNTER UNIT C/W UPPER CABINET  
A2-4 SECTION-DOOR UNIT SC. 1:20



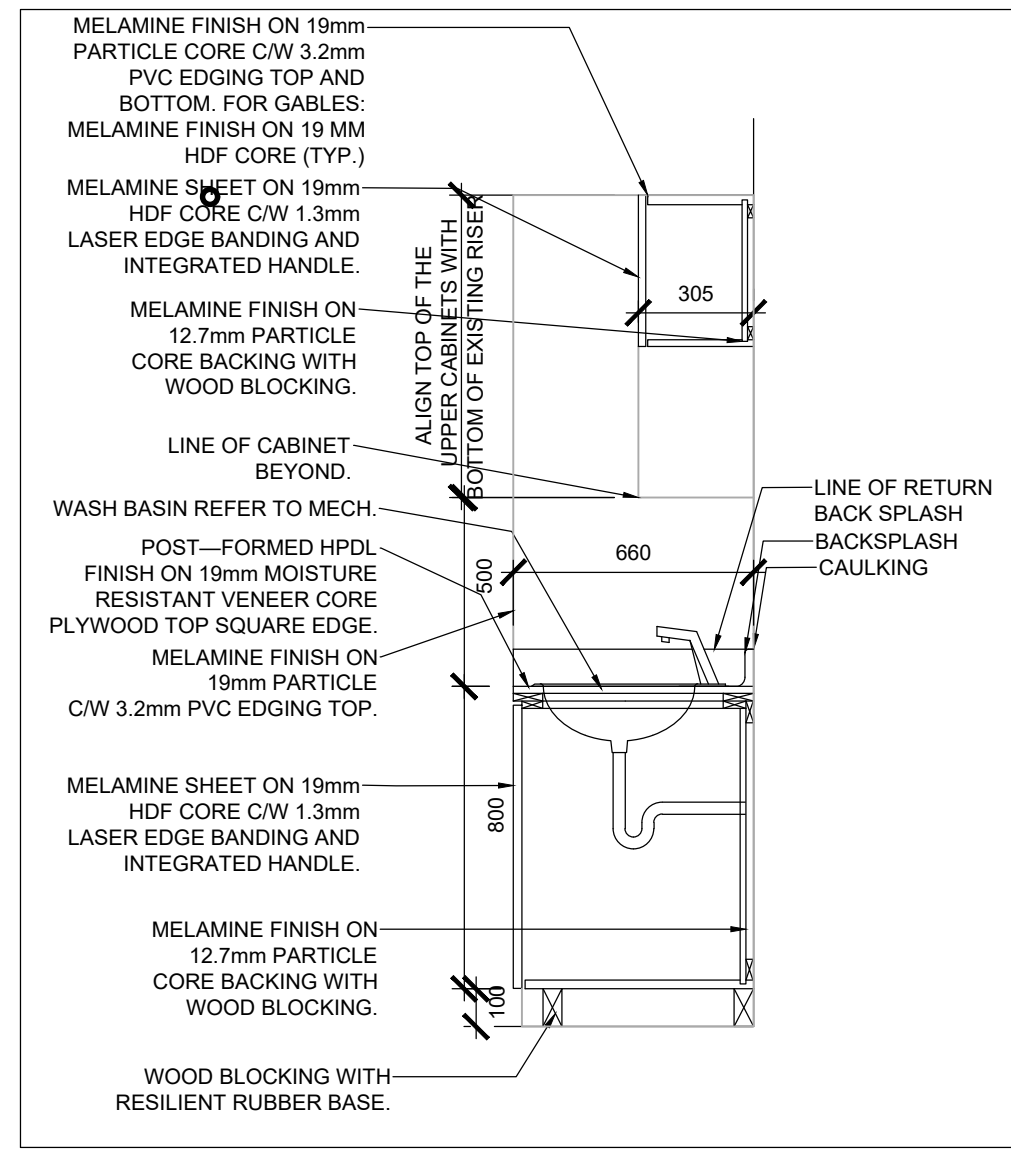
10 COUNTER UNIT C/W UPPER CABINET  
A2-4 DISHWASHER SC. 1:20



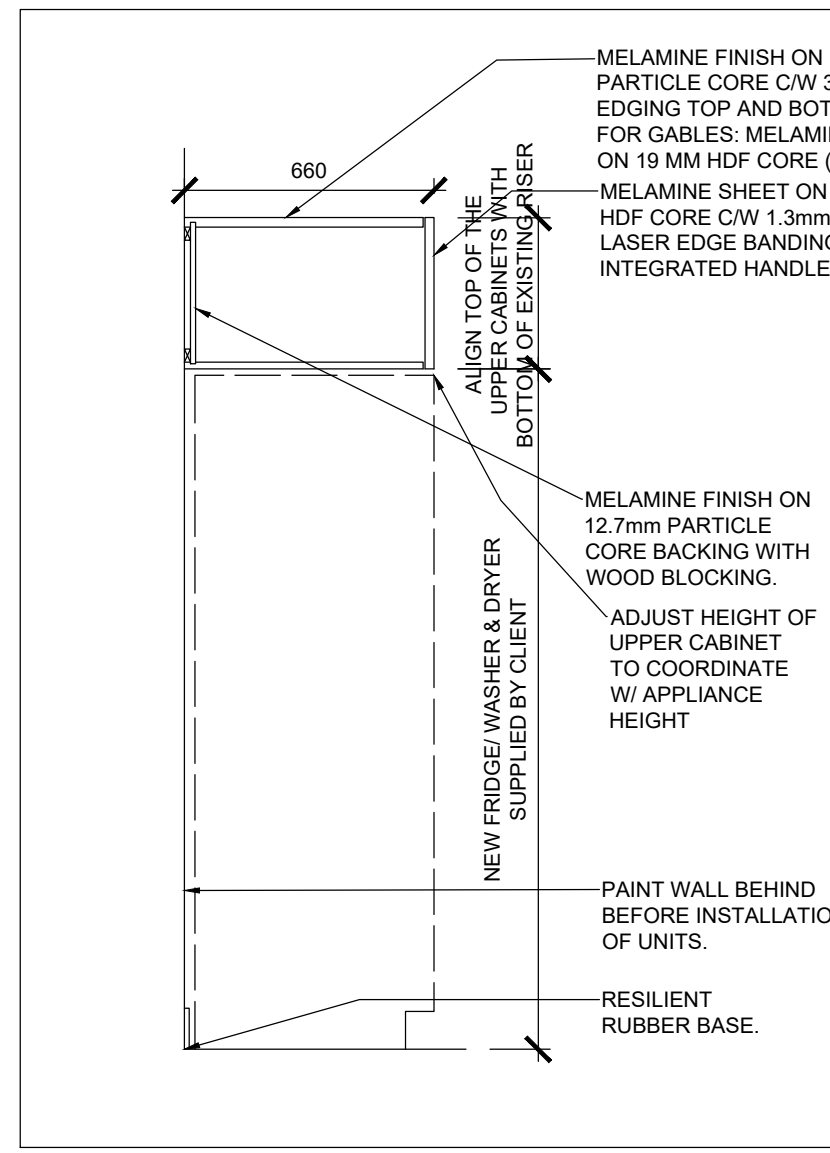
11 KITCHEN CABINET  
A2-4 SECTION - SINK UNIT SC. 1:20



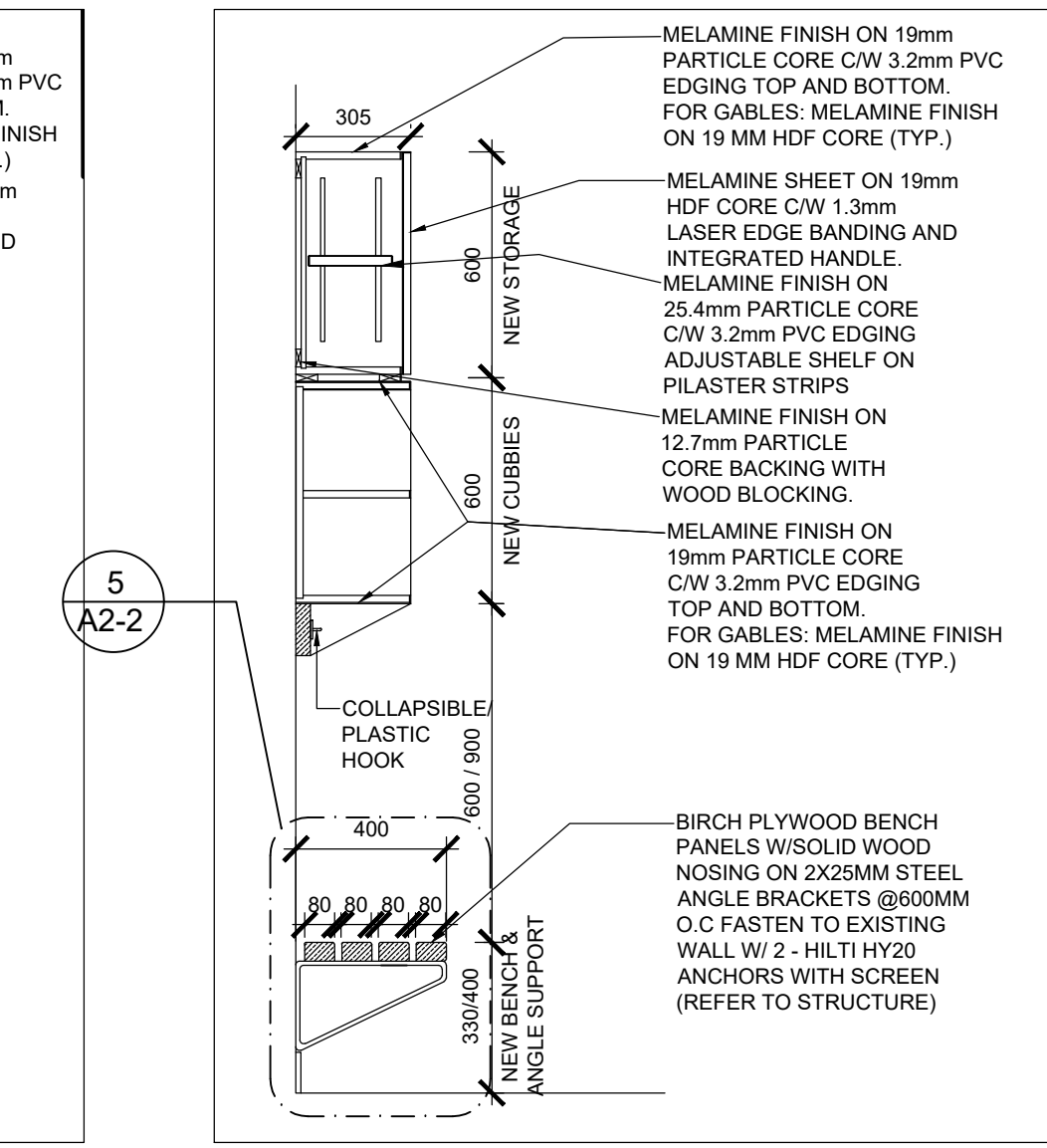
12 KITCHEN CABINET  
A2-4 SECTION - DRAWER UNIT SC. 1:20



13 KITCHEN CABINET  
A2-4 SECTION - WASH BASIN UNIT SC. 1:20



14 KITCHEN CABINET  
A2-4 SECTION - FRIDGE UPPER UNIT SC. 1:20



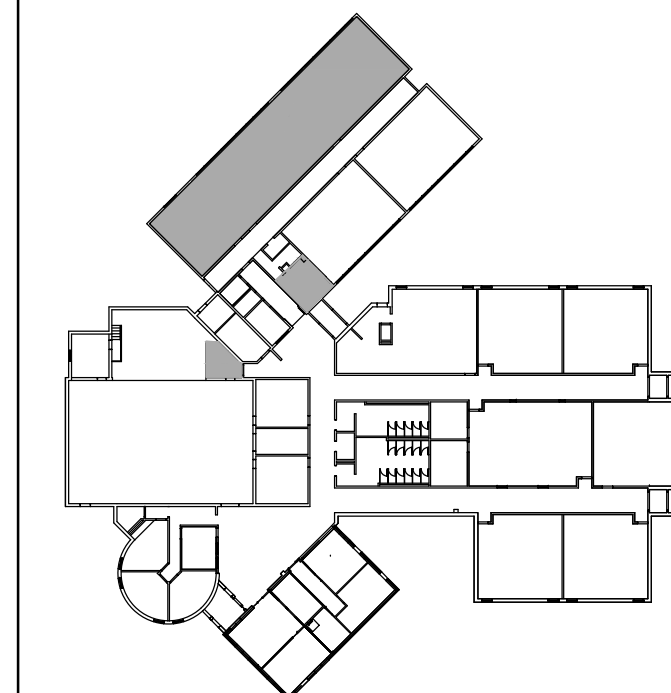
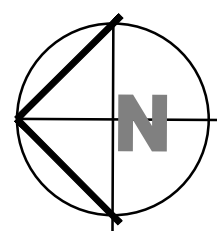
15 COT CUBICLE UNIT C/W UPPER CABINET  
A2-4 SECTION SC. 1:20

## NOTES

- VERIFY ALL DIMENSIONS
- MEASUREMENTS TO BE CONFIRMED ON SITE
- VERIFY/CONFIRM LOCATION/DIMENSIONS REFER TO THE EXISTING COMPONENTS AND EQUIPMENTS
- DO NOT SCALE DRAWINGS
- REPORT ANY DISCREPANCIES, DISCOVERED ERRORS OR OMISSIONS TO THE ARCHITECT BEFORE PROCEEDING
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DRAWINGS WITH THE LATEST PROVISIONS ARE USED FOR CONSTRUCTION

## LEGEND

- EXISTING WALLS TO REMOVE
- EXISTING WALLS TO REMAIN
- NEW WALLS



## KEY MAP

ISSUED FOR RE-TENDER JAN11, 2021  
ISSUED FOR PERMIT/TENDER FEB25, 2020  
SCOPE REDUC. -LIFT, CLIENT REVIEW JAN24, 2020  
SCOPE REDUC. -LIFT, CLIENT REVIEW OCT25, 2019  
SUBMITTED FOR TENDER & PERMIT JULY 5, 2018  
ISSUED FOR 99% DESIGN JUNE 22, 2018  
ISSUED FOR 66% DESIGN JUNE 08, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR  
110 DREWRY AVENUE  
TORONTO, ON

## MILLWORK SECTIONS

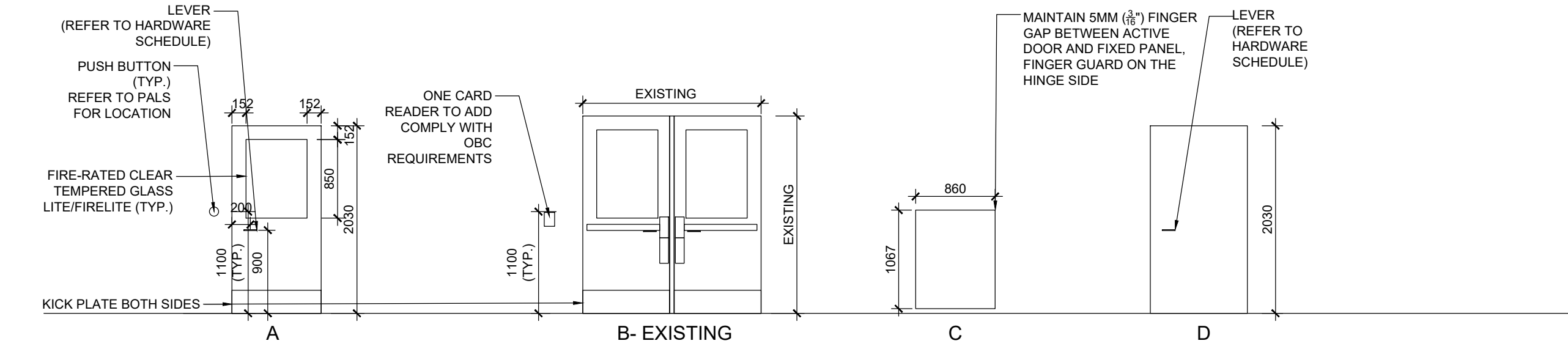
A2-4

AS NOTED  
MAY 2018

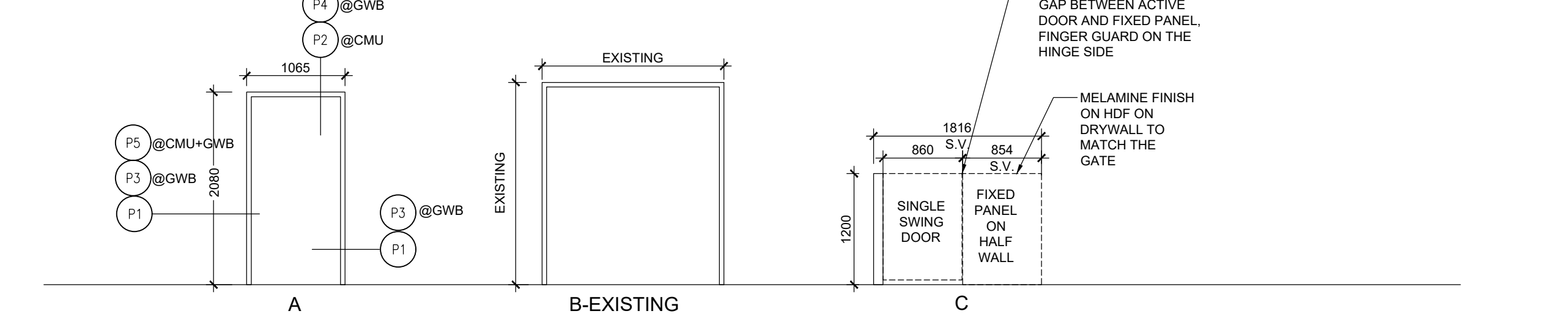
2017-06



## DOORS



## FRAMES



1 DOOR/FRAME ELEVATION  
A3-1 SC. 1:50

## DOORS & FRAMES SCHEDULE

DOOR	FRAME									
	DOOR#	WIDTH	HEIGHT	THICKNESS	ELEVATION	MATERIAL	FINISH	GLASS	SECTION	SIZE
D1	965	2030	45	A	WD	S+V	FIRELITE	A	P5	50X140
D2	965	2030	45	A	WD	S+V	FIRELITE	A	P5	50X140
D3	965	2030	45	A	WD	S+V	FIRELITE	A	P3	50X140
D4	860	1150	45	C	WD	S+V	—	C	—	102X102
D5	EXSTG	EXSTG	EXSTG	EXSTG	H.M.	PAINT	EXSTG	EXSTG	EXSTG	H.M.
D6	1050	2030	45	D	WD	S+V	—	—	—	—
D7	1050	2030	45	D	WD	S+V	—	—	—	—
D8	EXSTG	EXSTG	EXSTG	EXSTG	H.M.	PAINT	EXSTG	EXSTG	EXSTG	H.M.
D9	EXSTG	EXSTG	EXSTG	EXSTG	WD	S+V	EXSTG	EXSTG	EXSTG	WD

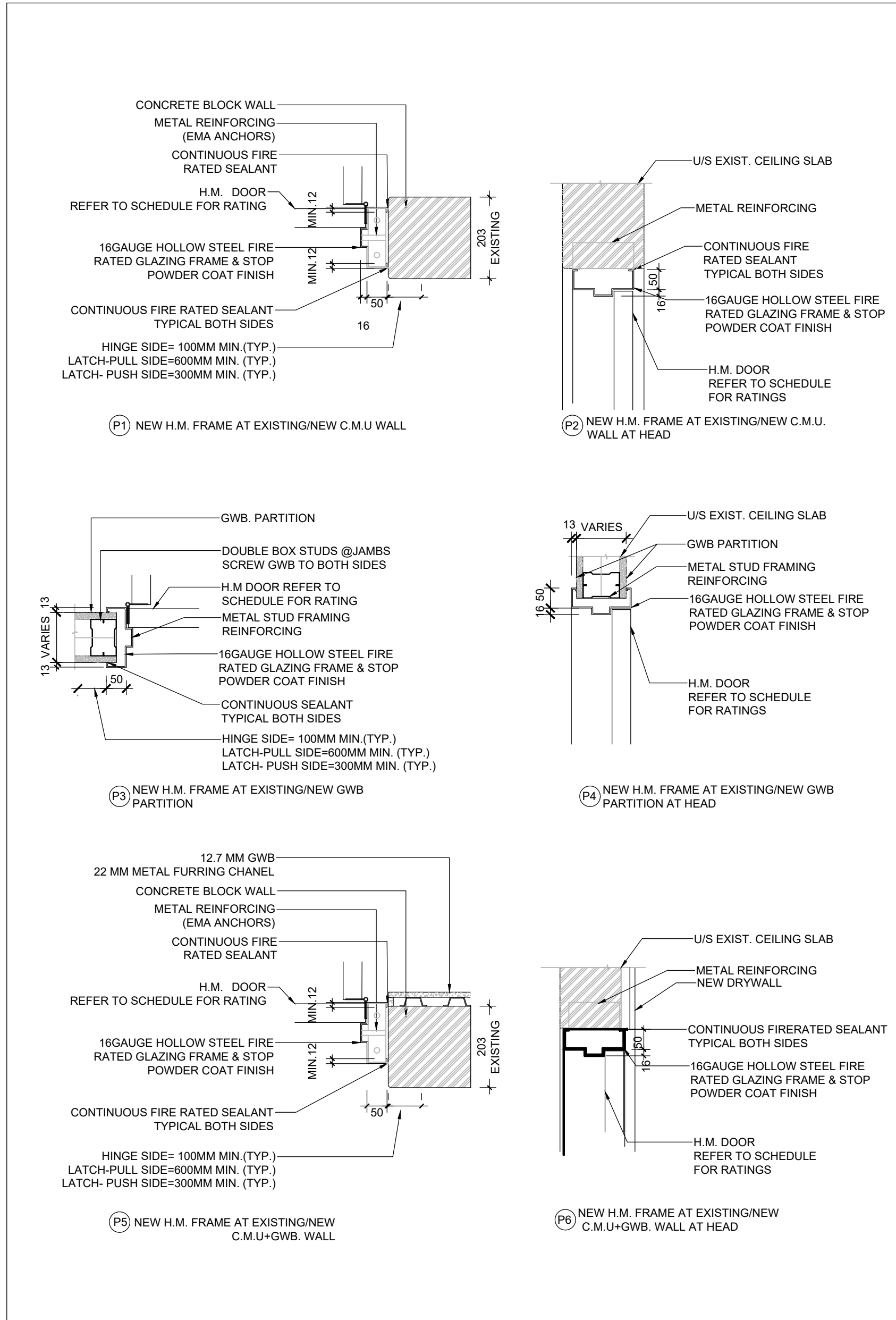
NOTE: DOORS TO BE EQUIPPED WITH DOOR CLOSER (REFER TO SPEC'S)  
H.M.=HOLLOW METAL  
WD=SOLID CORE WOOD  
S+V=STAIN & VARNISH

## 2 DOOR SCHEDULE

## FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR	BASE	NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL	CEILING	REMARKS
120	PRE-SCHOOL ROOM	V.C.T.	RUBBER	EXTD / NEW FRAM	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	CEILING TILE	SEE RCP LAYOUT FOR RENOVATION OF EXISTING NEW CEILING
121	TODDLERS ROOM	V.C.T.	RUBBER	EXTD / NEW FRAM	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	CEILING TILE	SEE RCP LAYOUT FOR RENOVATION OF EXISTING NEW CEILING
121A	DAYCARE OFFICE	V.C.T.	EXTD / NEW RUBBER	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	ACT	
121B	DAYCARE ENTRANCE	V.C.T.	RUBBER	NEW WOODEN GATE + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	ACT & DRYWALL	REFER TO NEW RCP LAYOUT FOR CONSTRUCTION OF CEILING
121C	CUBBIES ROOM	V.C.T.	RUBBER	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	ACT	
121D	DAYCARE WASHROOM	V.C.T.	EXTD / NEW RUBBER	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	DRYWALL + PAINT	ACT & EXPOSED	REFER TO NEW RCP LAYOUT FOR CONSTRUCTION OF CEILING
48	KITCHEN	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	
45	EXISTING CORRIDOR	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	SEE RCP LAYOUT FOR RENOVATION OF EXISTING NEW CEILING
49	EXISTING CORRIDOR	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	SEE RCP LAYOUT FOR RENOVATION OF EXISTING NEW CEILING
50	NEW LAUNDRY ROOM	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	INSTALL NEW DRYWALL CEILING
104A	EXISTING VESTIBULE	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	INSTALL NEW DRYWALL CEILING
104B	EXISTING STAGE	V.C.T.	RUBBER	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	EXTD / NEW DOOR	

3 FINISH SCHEDULE  
A3-1 SC. 1:50



6 DOOR DETAILS  
A3-1 SC. 1:10

## PARTITION TYPES

A. ALL NEW PARTITIONS TO U/S/ OF SLAB, UNLESS OTHERWISE NOTED.  
B. REFER TO ROOM SCHEDULE FOR FINISHES.  
C. ALL ELECTRICAL/MECHANICAL DEVICES TO BE MOVED TO FACE OF NEW PARTITION.

## INTERIOR NON-LOAD BEARING WALL

1 HOUR F.R.R. ULC #W407  
-15.9MM TYPE X GYPSUM WALL BOARD  
-89MM ACOUSTIC BATT INSULATION  
-31MM X 92MM STEEL STUD @400mm O.C.  
-15.9MM TYPE X GYPSUM WALL BOARD  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED

## INTERIOR NON-LOAD BEARING WALL

-15.9MM GYPSUM WALL BOARD  
-31MM X 92MM STEEL STUD @400mm O.C.  
-89MM ACOUSTIC BATT INSULATION  
-15.9MM GYPSUM WALL BOARD  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED

## INTERIOR FURRING

TO UNDERNEATH OF THE EXISTING CEILING  
-22MM METAL FURRING CHANNEL @910mm O.C.  
-12.7MM GYPSUM WALL BOARD  
-FINISH AS PER FINISH SCHEDULE

## INTERIOR NON-LOAD BEARING WALL

-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-152MM METAL STUDS AT 400MM O.C.  
-140MM AIRPLUMBING SPACE  
-89MM ACOUSTIC BATT INSULATION  
-32mm METAL STUDS AT 400MM O.C.  
-15.9MM GYPSUM WALL BOARD TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED

## INTERIOR NON-LOAD BEARING WALL

-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-152MM METAL STUDS AT 400MM O.C.  
-140MM AIRPLUMBING SPACE  
-EXISTING WALL  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED

## INTERIOR NON-LOAD BEARING WALL

-CERAMIC TILE UP TO 1000MM ABOVE FINISHED FLOOR (INSIDE WASHROOM)  
-16MM CEMENT BACKER BOARD (C.B.U)  
FLOOR TO U/S OF STRUCTURE  
-16MM PLYWOOD BLOCKING  
AS REQD FOR MILLWORK AND WASHROOM ACCESSORIES INSTALLATION  
-WATER PROOFING MEMBRANE  
-31MM X 64 MM STEEL STUD @400MM O.C.  
-500 AIR SPACE FOR POCKET DOOR  
-31MM X 64 MM STEEL STUD @400MM O.C.  
-15.9MM GYPSUM WALL BOARD  
FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE  
-PERIMETER CAULKED

## INTERIOR NON-LOAD BEARING WALL-INFILL

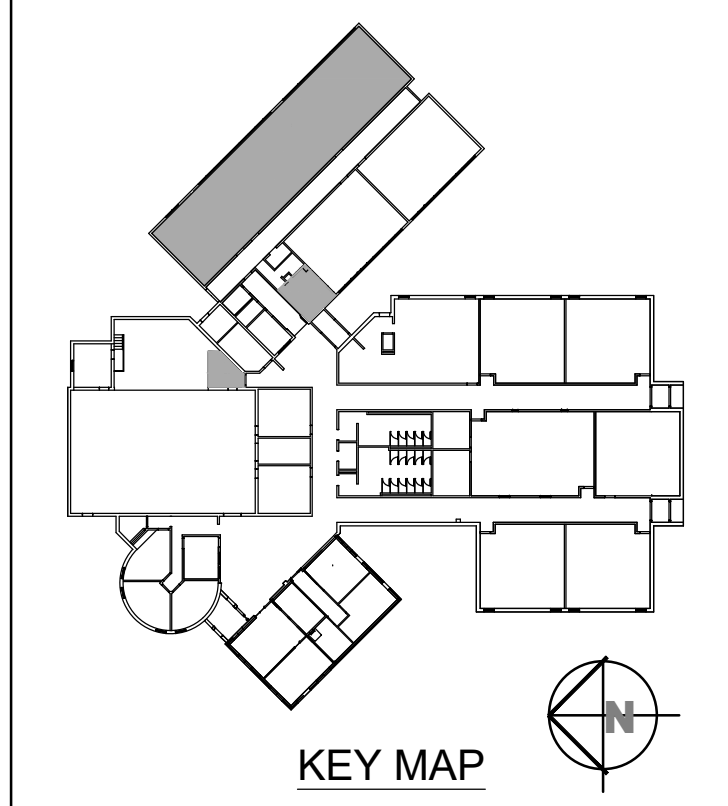
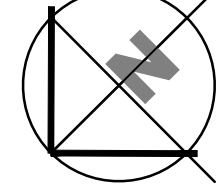
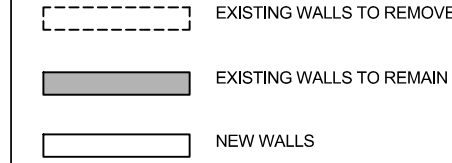
1 HOUR F.R.R. OBC#B2C  
-12.7MM GYPSUM WALL BOARD (ON CORRIDOR SIDE)  
-140MM CONCRETE MASONRY UNIT  
-FLOOR TO U/S OF STRUCTURE  
-FINISH AS PER FINISH SCHEDULE, PERIMETER CAULKED  
-ENSURE MORTAR IS PACKED COMPLETELY AND FIRE SEPARATION IS CONTINUOUS  
-THICKNESS TO MATCH TO EXISTING

7 PARTITION SCHEDULE  
A3-1 SC. 1:10

## NOTES

- VERIFY ALL DIMENSIONS
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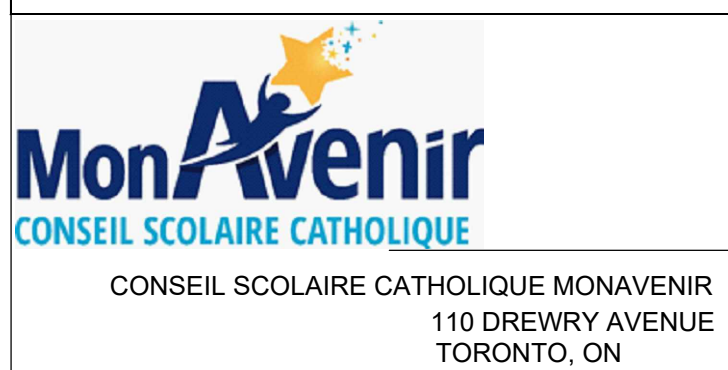
## LEGEND



ISSUED FOR RE-TENDER	JAN11, 2021
ISSUED FOR PERMIT/TENDER	FEB25, 2020
SCOPE REDUCTION-CLIENT REVIEW	APR26, 2019
SUBMITTED FOR TENDER & PERMIT	JULY 5, 2018
ISSUED FOR 99% DESIGN	JUNE 22, 2018
ISSUED FOR 66% DESIGN	JUNE 08, 2018
ISSUED FOR 33% DESIGN	MAY 22, 2018
ISSUED FOR CLIENT REVIEW	MAY 14, 2018



EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



## DOOR DETAILS/SCHEDULES

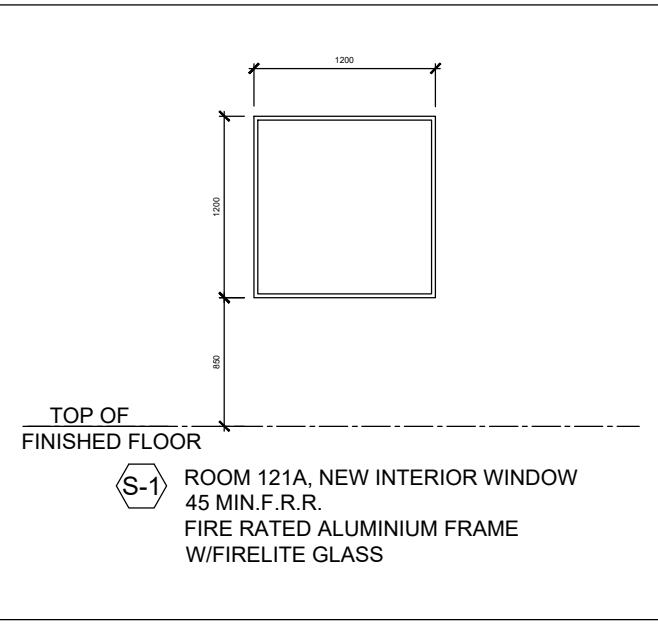
A3-1

AS NOTED  
MAY 2018

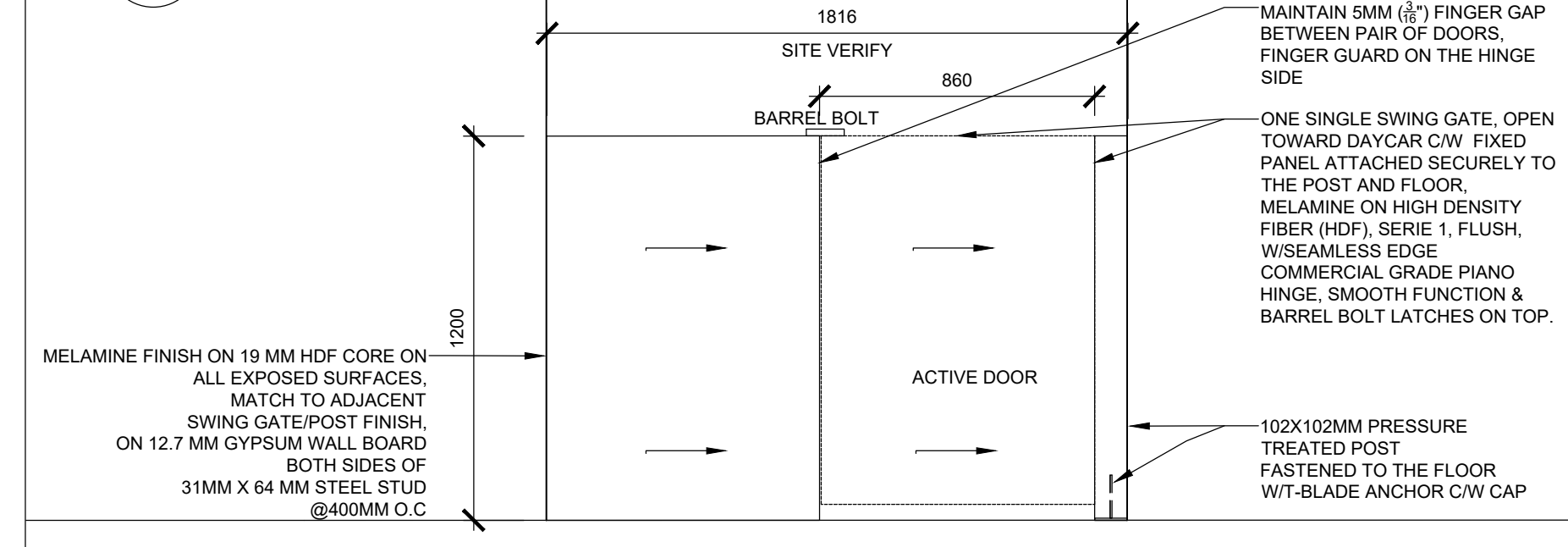
2018-11B

## DOOR GENERAL NOTES:

1. VERIFY ALL ROUGH OPENING DIMENSIONS ON SITE.
2. REFER TO DOOR & HARDWARE SCHEDULE FOR GLAZING AND DOOR TYPES.
3. REFER TO DOOR & HARDWARE SCHEDULE FOR DIRECTION OF DOOR SWING.
4. DOOR PUSH/PULL: REFER TO HARDWARE SCHEDULE, UNLESS NOTED, OTHERWISE MATCH TO EXISTING.
5. SPECIAL HARDWARE: REMOVE, SALVAGE, CLEAN AND REINSTALL
6. DOOR HEIGHTS TO MATCH TO EXISTING UNLESS OTHERWISE NOTED.
7. ALL FIRE DOORS ARE REQUIRED TO CLOSE AND LATCH FROM AN OPEN POSITION AUTOMATICALLY; TO BE EQUIPPED WITH DOOR CLOSER AT MINIMUM. REFER TO DOOR/HARDWARE SCHEDULE FOR THE LIST OF SPECIAL HARDWARE.
8. I.C. CORE TO MATCH TO EXISTING SCHOOL KEYING SYSTEM.



4 WINDOW/ FRAME ELEVATION  
A3-1 SC. 1:50



5 WOODEN GATE DETAIL  
A3-1 SC. 1:20





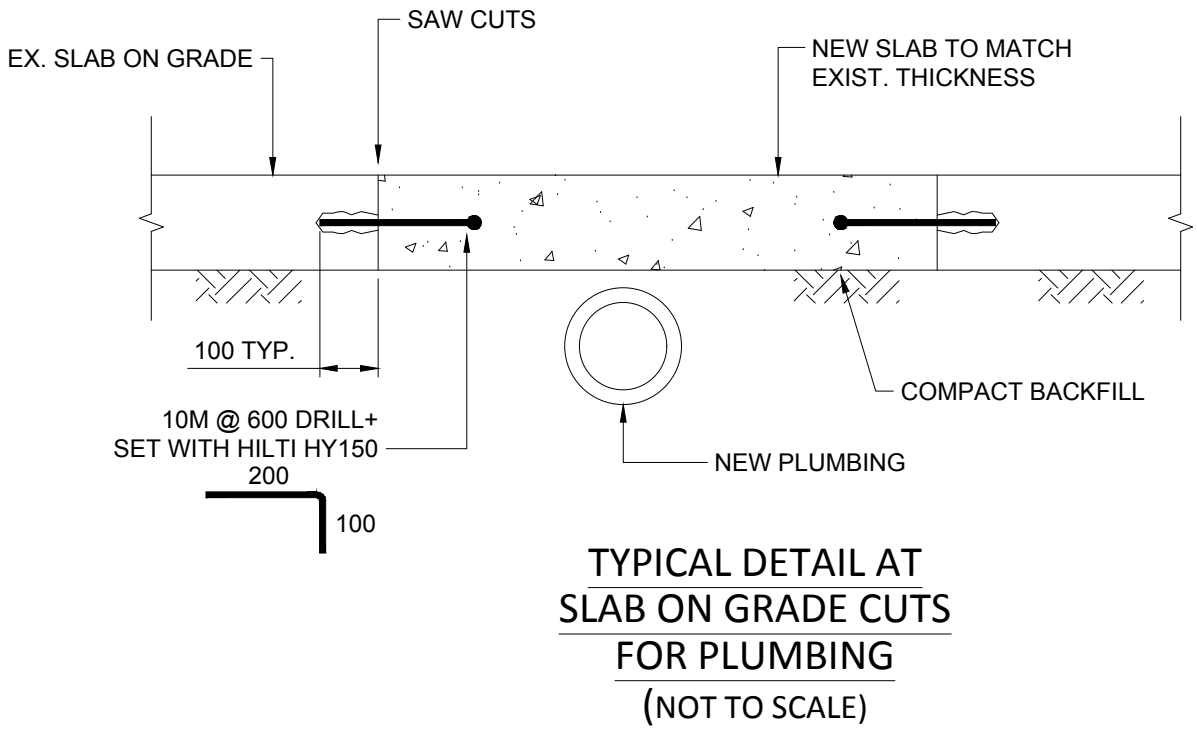
- ROOF DEAD LOAD 1.2 kPa ASSUMED  
 LIVE LOAD 3.04 kPa (1.15[2.8X0.8+0.4])  
 LOAD OF 1.4 kPa OR SNOW DRIFT LOAD
- WIND LOADS  
 50 YEAR RETURN BASIC  
 WIND PRESSURE OF 0.39 kPa  
 10 YEAR RETURN BASIC  
 WIND PRESSURE OF 0.30 kPa
- EARTHQUAKE  
 $S_a(0.2) = 0.14$   
 $S_a(0.5) = 0.110$   
 $S_a(1.0) = 1.064$   
 $S_a(2.0) = 0.022$   
 $PGA = 0.041$   
 SOIL CLASSIFICATION "D"
11. LIFT DESIGN LOAD (SERVICE) VERTICAL LOAD ON CONCR. PAD 14.2 kN  
 HORIZONTAL LOAD AT MOST CONNECTIONS 2.1 kN (4 LOCATIONS)

1. DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO CSA STANDARD CAN3-S16-09.
2. ALL STRUCTURAL STEEL TO BE IN ACCORDANCE WITH CSA STANDARD G40.21/G40.21-M192. HOLLOW STRUCTURAL SECTION ARE TO BE GRADE 350W, CLASS H, WIDE FLANGE BEAMS ARE TO BE GRADE 350W OR ALL OTHERS TO BE GRADE 350.
3. ALL BOLTS ARE TO BE HIGH TENSILE STEEL CONFORMING TO ASTM A325, USE BEARING TYPE CONNECTION (MINIMUM TWO M20 BOLTS PER CONNECTION ) UNLESS NOTED OTHERWISE
4. FOR ANCHOR BOLTS, USE A307.
5. ALL ARC WELDING WORK MUST BE DONE IN ACCORDANCE WITH CSA STANDARD W59-M1989 AND MUST BE UNDERTAKEN BY A FABRICATOR CERTIFIED TO CSA STANDARD W47.1-92.
6. ALL WELDS TO BE IN ACCORDANCE WITH CISC/CPMA STANDARD 2.75 UNLESS NOTED TO BE GALVANIZED. TOUCH UP ALL WELDS AND BOLTED AREAS SUBSEQUENT TO ERECTION.
7. PROVIDE ALL REQUIRED GUSSETS, SPACERS, FILLERS AND BATTEN PLATES AS SHOWN.
8. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION. THE ENGINEER REVIEW DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ENSURING THE SHOP DRAWINGS CONFORM TO THE DRAWINGS.
9. MAKE NO HOLES IN ANY STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON THE REVIEWED SHOP DRAWINGS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
10. PROVIDE 150mm BEARING LENGTH EACH SIDE ON SILE MASONRY FOR LINTLS, UNLESS NOTED.

1. CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1-09 FOR ALL SUPPLY, PLACING, CURING, FORMING AND TEMPERATURE PROTECTION OF CONCRETE.
2. ALL CONCRETE IS TO BE NORMAL DENSITY WITH A MAXIMUM SLUMP OF 100mm (4 INCHES). CEMENT IS TO BE TYPE 10.
3. ALL CONCRETE IS TO HAVE A 28 DAY COMPRESSIVE STRENGTH OF 25 MPa .
4. REINFORCING STEEL SHALL BE BUILT DEFORMED BAR CONFORMING TO CSA STANDARD G30.18-M92. GRADE 40.
5. GROUT WHERE REQUIRED IS TO BE NON-SHRINK TYPE SUCH AS W.R.MEADOWS SEQUESTIT CG-86.
6. REINFORCING STEEL IS TO BE DETAILED AND BENT AS OUTLINED IN THE REINFORCING STEEL MANUAL OF STANDARD PRACTICE PUBLISHED BY THE REINFORCING STEEL INSTITUTE OF ONTARIO.
7. SUBMIT SHOP DRAWINGS OF REINFORCING STEEL FOR REVIEW PRIOR TO FABRICATION.

1. THE MINIMUM STRENGTH OF HOLLOW LOAD-BEARING CONCRETE BLOCK ON THE NET AREA IS TO BE 15.0 MPa.
2. USE TYPE 'S' MORTAR CONFORMING TO CSA STANDARD A179-04 FOR ALL LOAD BEARING WALLS

ARCH.	ARCHITECTURE (DRAWINGS)	LLH	LONG LEG HORIZONTAL
BLOCK	BLOCK	LLV	LONG LEG VERTICAL
BOTTOM	BOTTOM LOWER LEVEL	MAX	MAXIMUM
BUM	BUM	MECH.	MECHANICAL
BUTT	BUTT	MIN	MINIMUM
BUTT	BOTTOM UPPER LEVEL	NTS	NOT TO SCALE
CONCR.	CONCRETE	O	Ø DIAMETER
C/C	C/C	O.D.	OUTSIDE FACE
C/C	CENTRE TO CENTRE	OWS	OPEN WEB STEEL JOIST
DRAWINGS	DRAWINGS	P	PLATE
EACH	EACH FACE	REINF.	REINFORCING
ELEV.	ELEVATION	S.R	SOLID ROUND
EACH SIDE	EACH SIDE	STD	STANDARD
EXIST.	EXISTING	STL	STEEL
EX. OR EXIST.	FOUNDATION	T & B	TOP AND BOTTOM
FINISH	FINISH	T & G	TONGUE AND GROOVE
FL.	FLOOR	TYP.	TYPICAL
FR.	FRONT	U/S	UNDERSIDE
GR.	GRASS	U.N.O.	UNLESS NOTED OTHERWISE
HORIZ.	HORIZONTAL	VERT.	VERTICAL
HOR. OR HORIZ.	HORIZONTAL	VERT. OUTSIDE	VERTICAL OUTSIDE FACE
HORIZ.	HORIZONTAL OUTSIDE FACE	V.I.F.	VERTICAL INSIDE FACE
HORIZ.	HORIZONTAL INSIDE FACE	V.E.F.	VERTICAL EACH FACE
H.E.F.	HORIZONTAL EACH FACE	W/F	WITH
INSIDE FACE	INSIDE FACE	WT.	WEIGHT



**MAITLAND SPENCER, P.ENG.**  
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899 VICKERMAN WAY , MILTON, ONTARIO L9T 0K5  
(905) 510-1347 Email: MAIT@MAITLANDSPENCER.CA

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS  
AND REPORT ANY DISCREPANCIES TO THE ENGINEER  
PRIOR TO COMMENCEMENT OF THE WORK  
DO NOT SCALE DRAWINGS  
THIS DRAWING IS THE PROPERTY OF THE ENGINEER  
AND MAY NOT BE REPRODUCED WITHOUT PERMISSION  
THE DRAWING IS TO BE USED ONLY FOR THE  
SPECIFIED PROJECT  
THIS DRAWING SHALL NOT BE USED FOR CONSTRUCTION  
UNLESS SIGNED AND SEALED BY THE ENGINEER

PROJECT

RENOVATIONS TO ECOLE  
ST.CROIX  
351 LAFONTAINE ROAD W.  
TIDY , ONTARIO

DRAWING TITLE

PARTIAL ROOF FRAMING AND  
GROUND FLOOR PLAN ,  
DETAILS AND GENERAL  
NOTES

SCALE

$1/16"=1'-0"$

**Note:** Posted drawings are reduced and are not to scale

DATE <b>22 MAY 2018</b>	PLOT DATE <b>22 MAY 2018</b>
CHECKED <b>M. SPENCER</b>	DRAWN <b>GDA</b>
PROJECT NUMBER <b>18-047</b>	DRAWING NUMBER <b>S1</b>



## LEGEND - HVAC

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
—E(NAME)—	EXISTING PIPING TO REMAIN
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT UP
	NEGATIVE PRESSURE (RETURN) DUCT UP
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	POSITIVE PRESSURE (SUPPLY) DUCT DOWN
	NEGATIVE PRESSURE (RETURN) DUCT DOWN
	EXISTING DUCTWORK TO BE REMOVED
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	SUPPLY AIR DIFFUSER (SQUARE)
	SUPPLY AIR DIFFUSER (ROUND)
	SIDEWALL GRILLE
	RETURN/EXHAUST GRILLE
	FULL RADIUS DUCT CONNECTION
	TAP-IN DUCT CONNECTION
	ROUND DUCT CONNECTION
	TURNING VANES
	FIRE DAMPER
	EXISTING FIRE DAMPER
MD	MOTORIZED DAMPER
SD	SMOKE-FIRE DAMPER COMBINATION
EXMD	EXISTING MOTORIZED DAMPER
AD	ACCESS DOOR
BD	BALANCING DAMPER
OBBD	OPPOSED BLADE BALANCING DAMPER
OED	OPEN ENDED DUCT
	THERMOSTAT
CAP	CAP

## PLUMBING NOTES

- CONTRACTOR IS TO VERIFY CONNECTION POINTS TO SERVICES WITH OTHER TRADES ON SITE.
- CONTRACTOR IS TO CLEAR DUCTWORK WHEN INSTALLING NEW PIPING. CLEARANCES TO BE VERIFIED ON SITE.
- PROVIDE A CLEANOUT AT THE BOTTOM OF EVERY SOIL AND WASTE STACK THAT CONNECTS TO A HORIZONTAL DRAINAGE PIPE.
- PROVIDE A CLEANOUT FROM EACH PLUMBING FIXTURE WHERE REQUIRED BY ONTARIO BUILDING CODE, PART 7 – PLUMBING.
- CHECK AND VERIFY LOCATION OF ALL PIPES, DUCTS AND EQUIPMENT WITH ALL OTHER TRADES TO PREVENT INTERFERENCE. REMOVAL OR RELOCATION OF ANY SUCH WORK INTERFERING WITH WORK OF OTHER TRADES IS THE RESPONSIBILITY OF THE MECHANICAL TRADE CONCERNED UNLESS OTHERWISE APPROVED IN WRITING.
- ALL PLUMBING FIXTURES INCLUDING FLOOR DRAINS (HUB, FUNNEL FLOOR DRAINS) TO BE TRAPPED AND VENTED AS REQUIRED BY ONTARIO BUILDING CODE, PART 7 – PLUMBING.
- FOR MOUNTING HEIGHT OF ALL PLUMBING FIXTURES REFER TO ARCHITECTURAL DRAWINGS.
- PROVIDE ACCESS DOOR FOR ALL VALVES LOCATED ABOVE DRY WALL CEILING.
- PROVIDE ACCESS DOOR FOR ALL CLEANOUTS LOCATED ABOVE DRY WALL CEILING.
- IN ALL INSTANCES THE NEED FOR ACCESS DOOR IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.
- ALL DISTURBED SERVICES AFTER PIPE REMOVAL OR REROUTING TO BE FILLED-IN WITH APPROPRIATE MATERIAL TO MAINTAIN FIRE SEPARATION AND PATCHED TO MATCH EXISTING OR NEW FINISHES.
- CONTRACTOR IS TO REMOVE ALL OBSOLETE PIPING WHEREVER POSSIBLE.
- CONTRACTOR IS TO ENSURE THAT ALL EXISTING PIPING SERVING EXISTING AREAS REMAIN IN SERVICE UNTIL THESE AREAS ARE RECONNECTED TO NEW SERVICES. ONLY THEN OBSOLETE PIPING IS TO BE REMOVED AS SHOWN.
- BEFORE CUTTING ANY HOLES THROUGH THE EXISTING SLAB REFER TO EXISTING STRUCTURAL DRAWINGS FOR GENERAL REQUIREMENTS.
- AFTER PIPE REMOVAL ALL EXISTING OPENINGS IN FIRE SEPARATION ARE TO BE FILLED-IN TO MAINTAIN INTEGRITY OF THAT FIRE SEPARATION.
- RECONNECT VENTS FROM EXISTING EQUIPMENT AND PLUMBING FIXTURES WHICH ARE TO REMAIN TO NEW VENTS AS REQUIRED.
- PROVIDE SIGN IDENTIFYING LOCATION OF ALL VALVES INSTALLED IN CEILING SPACE.
- ALL WATER, SANITARY, SEWER AND VENT COPPER PIPING WITH SOLDER JOINTS SHALL BE LEAD FREE. DO NOT INSTALL WATER LINES IN OUTSIDE WALL WHERE THEY MAY FREEZE, UNLESS BOTH THE WALL AND THE PIPES ARE PROPERLY INSULATED.
- INSTALL SHUT-OFF VALVES AT EACH PLUMBING FIXTURE AND EACH EQUIPMENT CONNECTION.
- REFER TO ARCHITECTURAL FOR OWNER SUPPLIED EQUIPMENT. CONFIRM ALL MECHANICAL REQUIREMENTS AND PROVIDE TO SUIT.

## MECHANICAL DRAWING LIST

M0.0	MECHANICAL LEGENDS, NOTES, DRAWING LIST AND SCHEDULES
M0.1	KEY PLAN
M1.00	DEMOLITION DRAINAGE AND PLUMBING FLOOR PLAN
M2.00	DEMOLITION HVAC FLOOR PLAN
M1.0	NEW DRAINAGE FLOOR PLAN
M2.0	NEW PLUMBING FLOOR PLAN
M3.0	NEW HVAC GROUND FLOOR PLAN
M4.0	MECHANICAL DETAILS
M5.0	MECHANICAL SPECIFICATIONS – 1
M5.1	MECHANICAL SPECIFICATIONS – 2

## LEGEND - PLUMBING

ALL SYMBOLS MAY NOT APPEAR ON DRAWINGS.	
REFER	DESCRIPTION
—E—	EXISTING PIPING
—	DEMOLITION PIPING
—	DEMOLITION HOT WATER PIPING
—	DEMOLITION HOT WATER RECIRC. PIPING
—V—	VENT PIPING
—	SANITARY PIPING ABOVE FLOOR
—	SANITARY PIPING BELOW GRADE OR FLOOR
—	PIPING TO BE REMOVED
—	HEAT TRACED PIPING
—E—	CONNECTION OF NEW AND EXISTING PIPING
—	CAPPED PIPE
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
RD	ROOF DRAIN ABOVE
CO	CLEANOUT IN FLOOR
CO	CLEANOUT IN LINE OR STACK
W	WATER METER
IS	ISOLATION VALVE
TV	THROTTLING VALVE
CV	CHECK VALVE
STR	STRAINER
RBP	REDUCED PRESSURE BACKFLOW PREVENTER
3-WAY VALVE	3-WAY VALVE
TEMPERATURE & PRESSURE RELIEF VALVE	TEMPERATURE & PRESSURE RELIEF VALVE
SOLENOID VALVE	SOLENOID VALVE
UNION	UNION
PG	PRESSURE GAUGE
T	THERMOMETER
PUMP	PUMP
PIPE DOWN	PIPE DOWN
PIPE UP	PIPE UP
PIPE UP & DOWN	PIPE UP & DOWN
PIPE TEE	PIPE TEE
E	DENOTES EXISTING
E	EXISTING PIPING
FEX	FIRE EXTINGUISHER – SURFACE MOUNTED
FEC	FIRE EXTINGUISHER – CABINET

## GENERAL NOTES

REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR COORDINATION OF GRILLES, DIFFUSERS AND OTHER ELEMENTS.

IN ALL INSTANCES THE NEED FOR ACCESS DOORS IN GWB CEILINGS SHOULD BE AVOIDED IF POSSIBLE. WHERE INSTALLATION OF COMPONENTS WHICH REQUIRE ACCESS CANNOT BE AVOIDED, SUBMIT (DIMENSIONED) LAYOUT ON ARCHITECTURAL REFLECTED CEILING PLANS TO CONSULTANTS FOR APPROVAL PRIOR TO INSTALLATION OF COMPONENT.

EXISTING ITEMS TO BE REMOVED REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO A LOCATION ON SITE DESIGNATED BY THE OWNER. IF THE OWNER DECLARES NO INTEREST IN THE REMOVED ITEMS, ASSUME OWNERSHIP AND REMOVE THE ITEMS FROM THE SITE.

REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATION FOR PHASING AND STAGING.

## RETURN/ EXHAUST GRILLE SCHEDULE

SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MMØ (INØ)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)
E-1 CFM	300x300 (12x12)	CEILING GRILLE	—	<450	<30	80D

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

## DIFFUSER SCHEDULE

SYMBOL	SIZE MM x MM (IN. x IN.)	APPLICATION	NECK SIZE MMØ (INØ)	AIRFLOW RANGE CFM	NC RANGE	MANUFACTURER AND MODEL (BASIS OF DEISN: E.H. PRICE)
S-1 CFM	600x600 (24x24)	4 WAY CEILING DIFFUSER	150 (6)	0–135	<30	SCD

NOTE(S): 1. ACCEPTABLE ALTERNATES SUBJECT TO SHOP DRAWING REVIEW: TITUS, METALAIRE, KRUEGER.

## EXHAUST FAN SCHEDULE

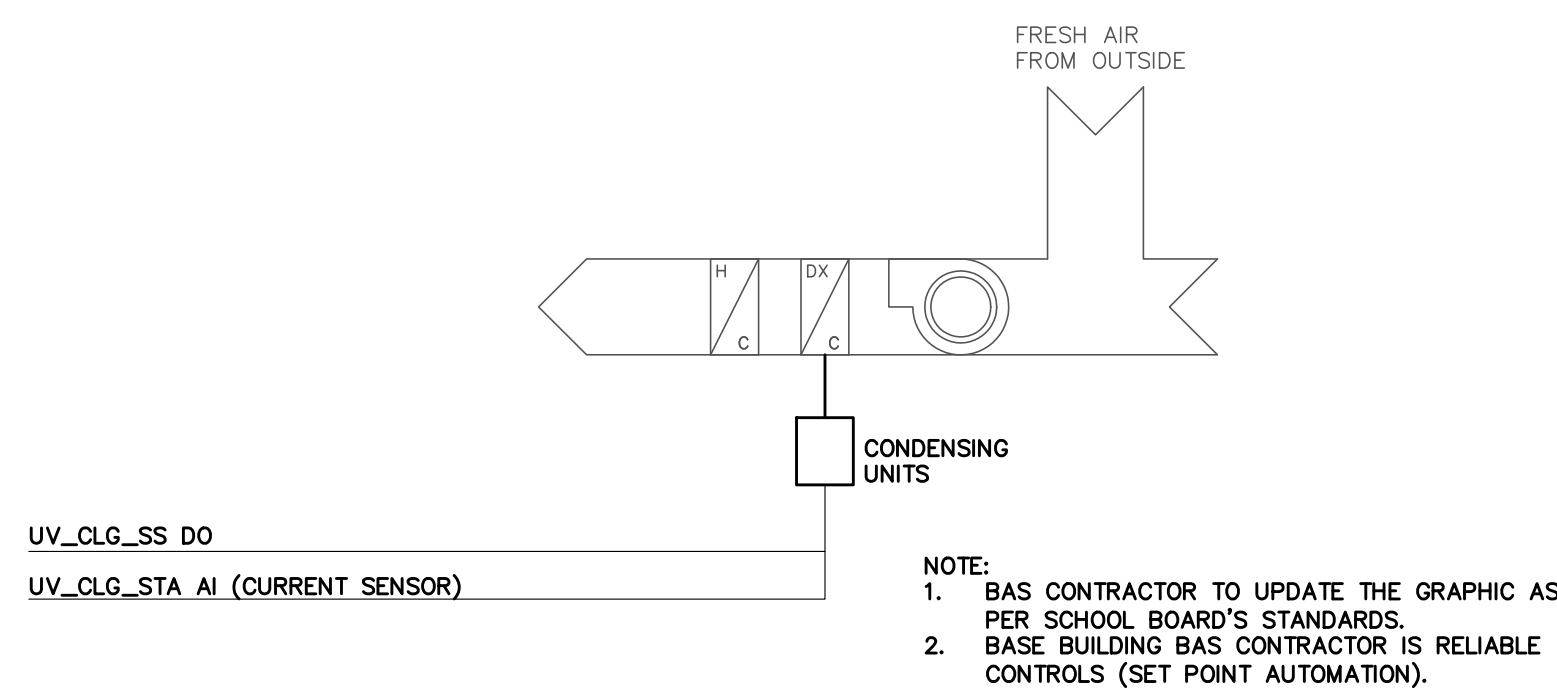
REFER	AREA SERVED	AIR FLOW CFM	E.S.P. IN.W.C.	MOTOR SIZE HP	ELECTRICAL VOLTAGE	DRIVE	FAN SPEED RPM	UNIT WEIGHT LBS	SONES	CONTROL	MANUFACTURER, MODEL AND ACCESSORIES
EF-1	WASHROOM	132 (280)	0.4	116WATTS	120V/1ø/60Hz	DIRECT	900	—	5.5	WALL MOUNTED FAN SPEED CONTROLLER	COOK GC-542; COMPLETE WITH WHITE STEEL GRILL, INTEGRAL BACKDRAFT DAMPER, FAN SPEED CONTROLLER/ISOLATOR KIT, AND BRICK VENT.

NOTES: 1. ALL FANS SHALL INCLUDE VIBRATION ISLOATION AND STARTERS.  
2. REFER TO THE CONTROL SCHEMATICS AND SEQUENCES OF OPERATION.  
3. ACCEPTABLE ALTERNATES SUBJECT TI SHOP DRAWING REVIEW: COOK, CARNES, GREENHECK, REVERSOMATIC, BROAN.

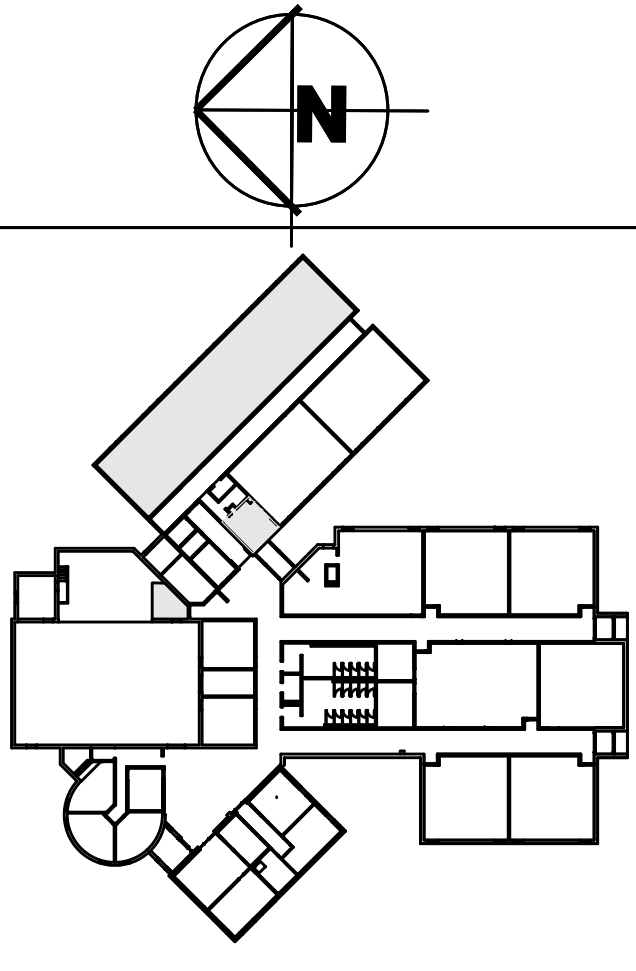
PLUMBING FIXTURE CONNECTION SCHEDULE											
TAG	FIXTURE NAME	SANITARY		VENT		DCWS		DHWS		TEMPERED	
		MM	INS	MM	INS	MM	INS	MM	INS	MM	INS
W1	FLOOR MOUNTED FLUSH TANK WATER CLOSET	75	3.00	38	1.50	13	0.50	—	—	—	—
L1	COUNTERTOP LAVATORY C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	32	1.25	32	1.25	13	0.50	13	0.50	13	0.5
L2	COUNTERTOP LAVATORY C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	32	1.25	32	1.25	13	0.50	13	0.50	13	0.5
S1	SINK C/W POINT OF USE THERMOSTATIC WATER MIXING VALVE	38	1.50	32	1.25	13	0.50	13	0.50	13	0.5
S1A	SINK	38	1.50	32	1.25	13	0.50	13	0.50	—	—
S2	TWO COMPARTMENT SINK	38	1.50	32	1.25	13	0.50	13	0.50	—	—
DW	DISHWASHER BY MECHANICAL CONTRACTOR	38	1.50	32	1.25	—	—	13	0.50	—	—
FD	FLOOR DRAIN	75	3.00	38	1.50	10	0.38	—	—	—	—
HD	HUB DRAIN	75	3.00	38	1.50	10	0.38	—	—	—	—
FFD	FUNNEL FLOOR DRAIN	75	3.00	38	1.50	10	0.38	—	—	—	—
TSP	TRAP SEAL PRIMER	—	—	—	—	10/13	0.38/0.50	—	—	—	—
											ONE – 10MM/0.38" PER FD, FFD, HD, PD

## CONDENSING UNIT SCHEDULE

REFER	MODEL	NOMINAL COOLING CAPACITY	CAPACITY AT 50°F SST/ 95°F AMBIENT (MBH)	ELECTRICAL			REMARKS
				VOLTAGE	M.C.A.	M.O.C.P.	
CU-1	CARRIER 24AHA436A003–BE01	3.0 TONS	36.0	208V/1/60Hz	18.8A	30A	CONDENSING UNIT COMPLETE WITH LOW AMBIENT HEAD PRESSURE CONTROL TO -20°F, WINTER START KIT, HIGH AND LOW PRESSURE SWITCHES, FILTER DRIER, CRANK CASE HEATER, HARD START KIT, TIME GUARD CIRCUIT, WIND BAFFLE (FIELD INSTALLED), THERMOSTATIC EXPANSION VALVES, FREEZESTAT FOR THE DX COIL (FIELD INSTALLED).



## UNIT VENTILATOR CONTROL



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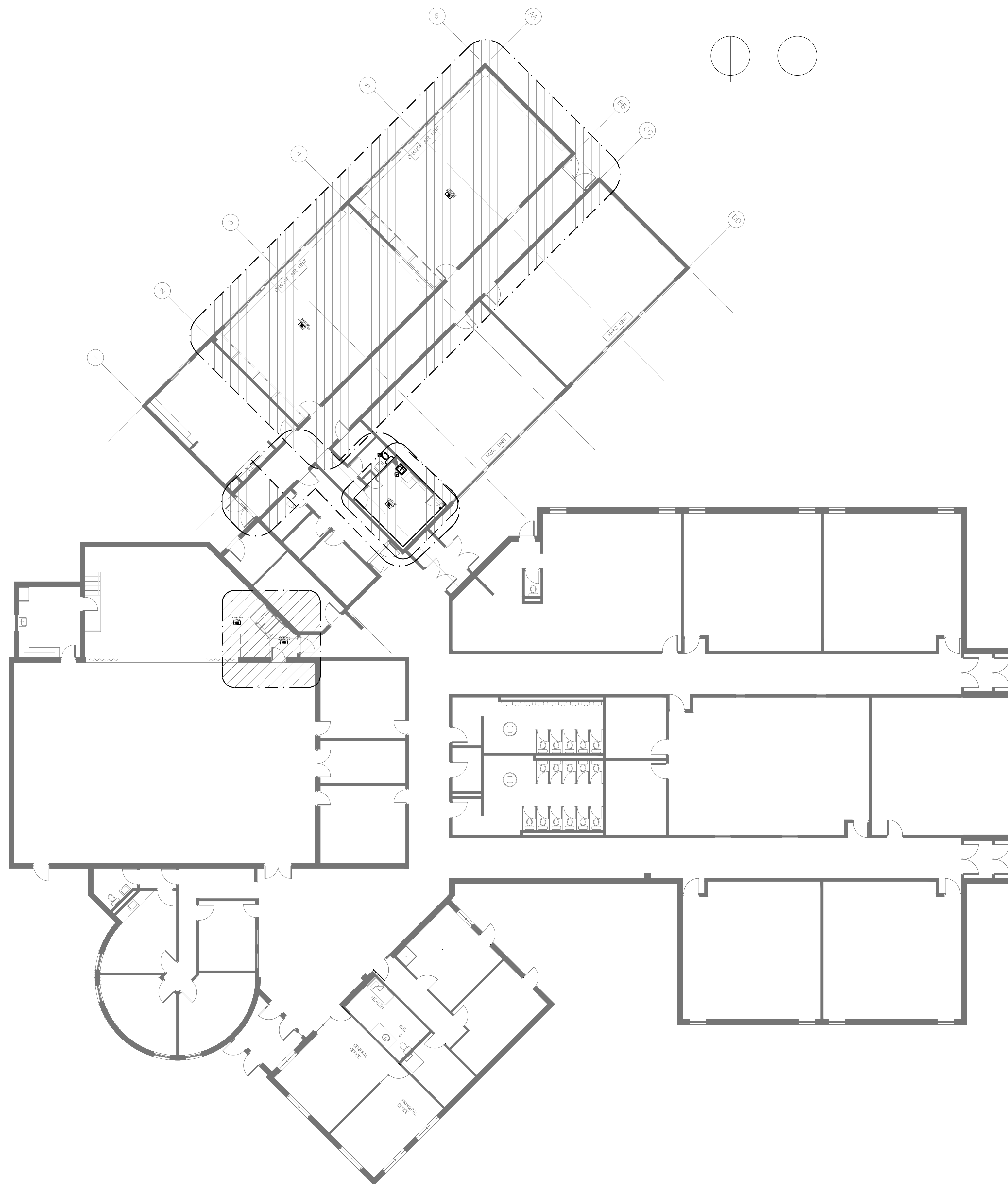
MECHANICAL LEGENDS, NOTES,  
DRAWING LIST AND SCHEDULES

**M0.0**

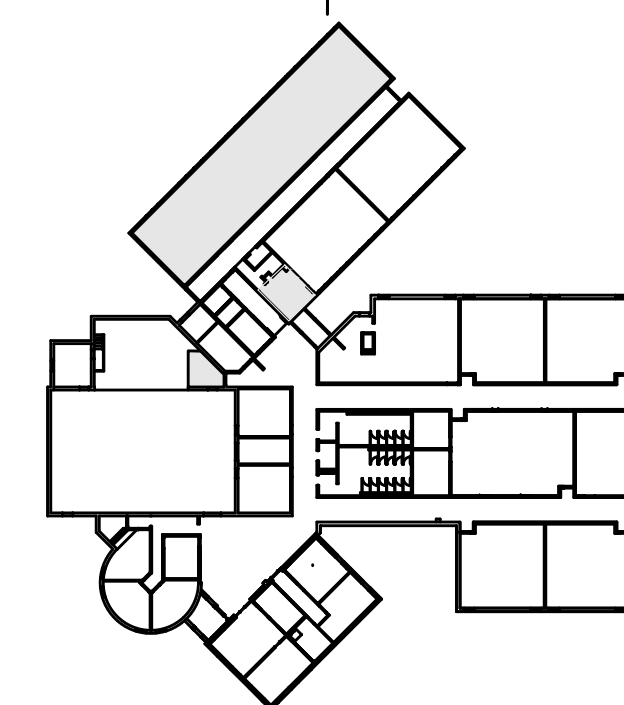
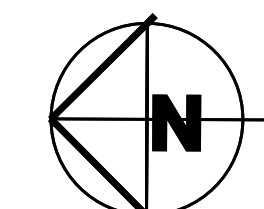
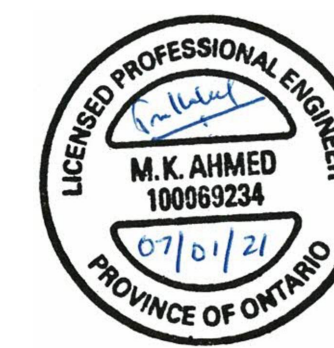
AS NOTED  
MAY 2018

2018-252





1 KEY PLAN  
M0.1 SCALE 1:150 EXISTING LAYOUT



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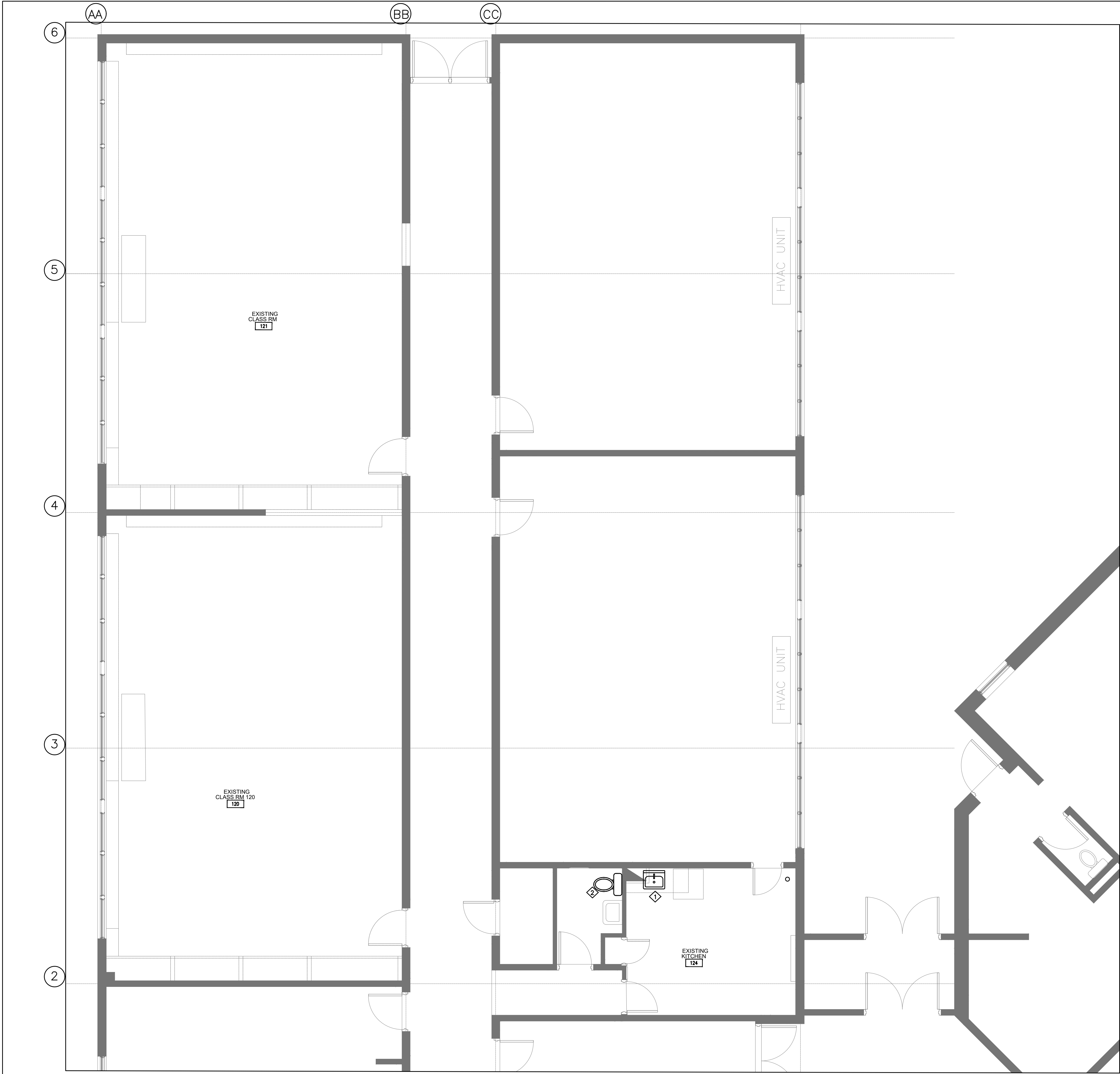
KEY PLAN

M0.1

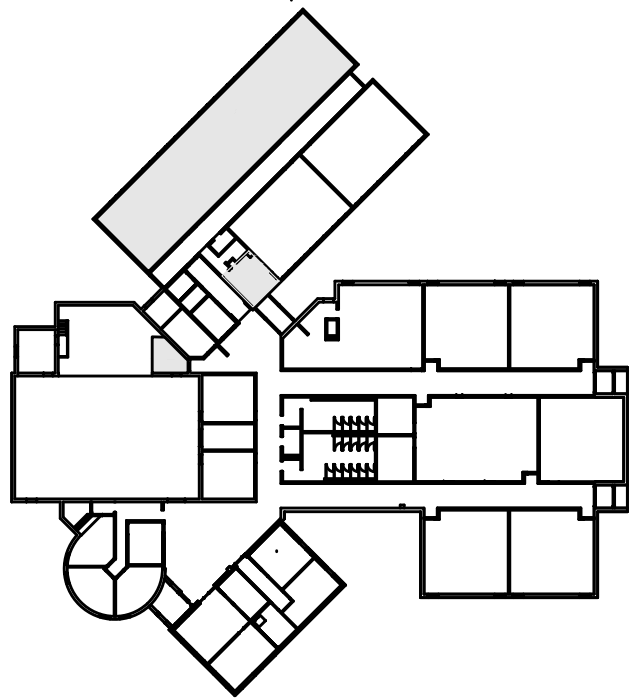
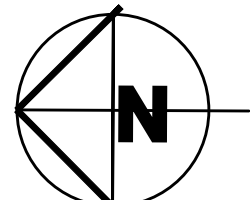
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- DRAWING NOTES
- EXISTING SINK TO BE REMOVED. MODIFY THE EXISTING DRAINAGE AND DOMESTIC HOT AND COLD WATER PIPING FOR CONNECTING TO NEW PLUMBING FIXTURES.
  - EXISTING WATER CLOSET TO BE REMOVED. CAP THE DRAINAGE PIPING AT THE FLOOR. MODIFY THE EXISTING COLD WATER PIPING FOR CONNECTING TO NEW PLUMBING FIXTURES.



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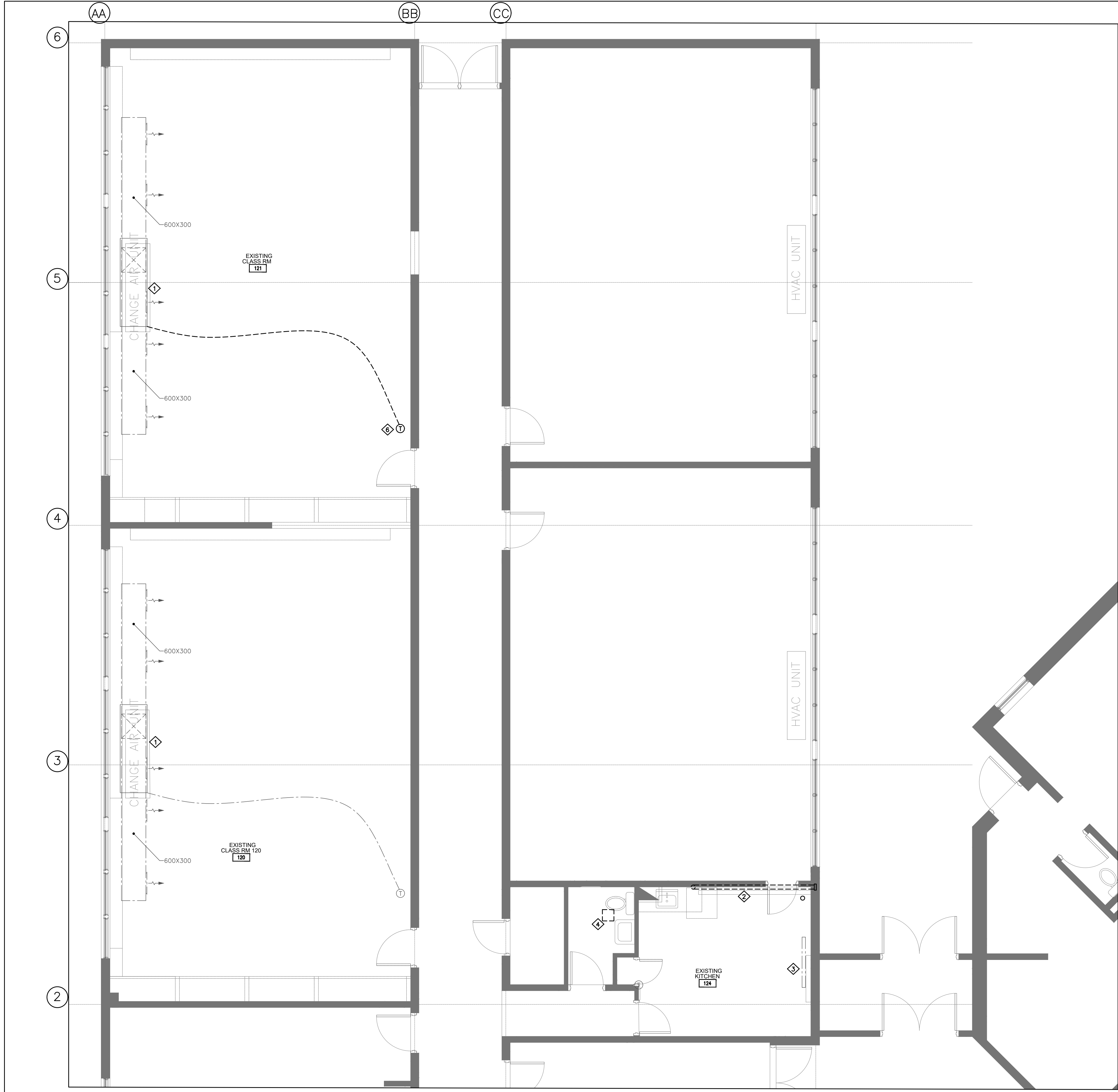
DEMOLITION DRAINAGE AND  
PLUMBING FLOOR PLAN

M1.0D

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MAY 2018

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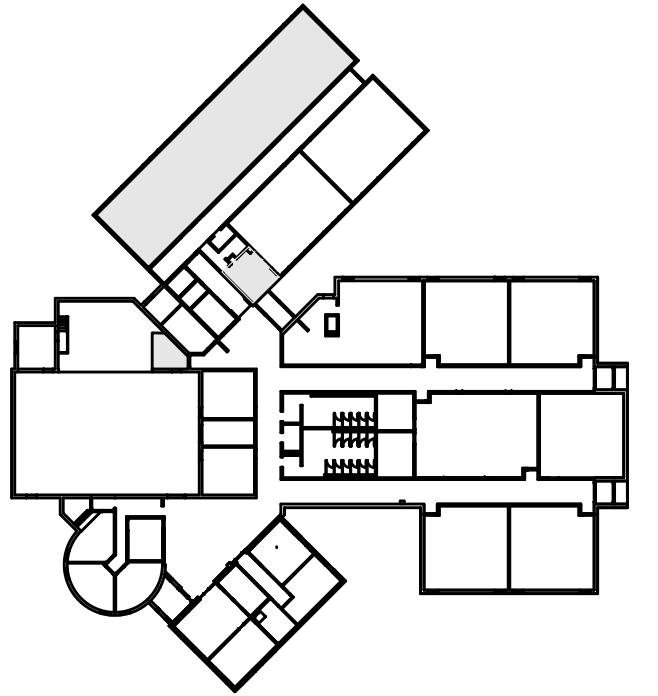
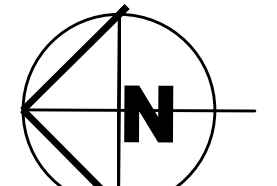
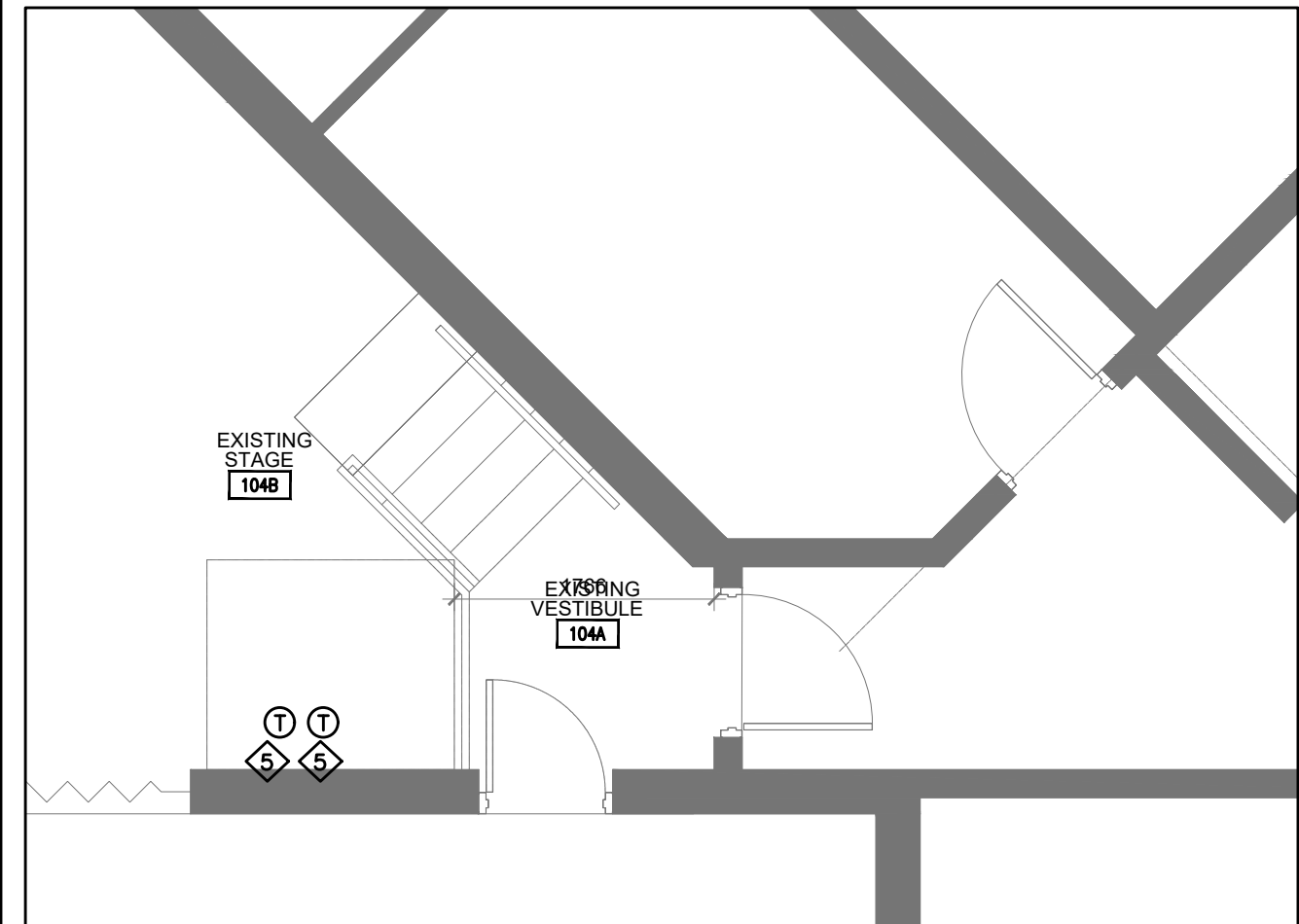




1 DEMOLITION LAYOUT  
SC. 1:50 CLASS ROOMS 120 & 121, KITCHEN

2 DEMOLITION LAYOUT  
SC. 1:50 STAGE, WHEELCHAIR LIFT AND B.F. DOORS

DRAWING NOTES	
1	EXISTING UNIT VENTILATOR AND ASSOCIATED DUCT WORK AND TEMPERATURE SENSOR TO REMAIN.
2	EXISTING DRYER EXHAUST DUCT TO BE REMOVED. CAP THE VENT ON THE WALL WITH R20 INSULATED PANEL BOARD.
3	EXISTING WALL FIN AND ASSOCIATED THERMOSTAT TO REMAIN.
4	EXISTING EXHAUST FAN, ASSOCIATED DUCT AND GOOSENECK ABOVE ROOF TO BE REMOVED. THE EXISTING ROOF CURB TO BE MODIFIED AS REQUIRED TO INSTALL NEW DRYER EXHAUST DUCT AND NEW GOOSENECK.
5	EXISTING TEMPERATURE SENSORS TO BE REMOVED AND RELOCATED TO PROVIDE ENOUGH SPACE TO INSTALL THE NEW LIFT, COORDINATED WITH OTHER TRADES TO CONFIRM THE EXACT NEW LOCATIONS ON SITE.
6	EXISTING THERMOSTAT TO BE REMOVED AND RELOCATED TO NEW LOCATIONS.



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DEMOLITION HVAC FLOOR PLAN

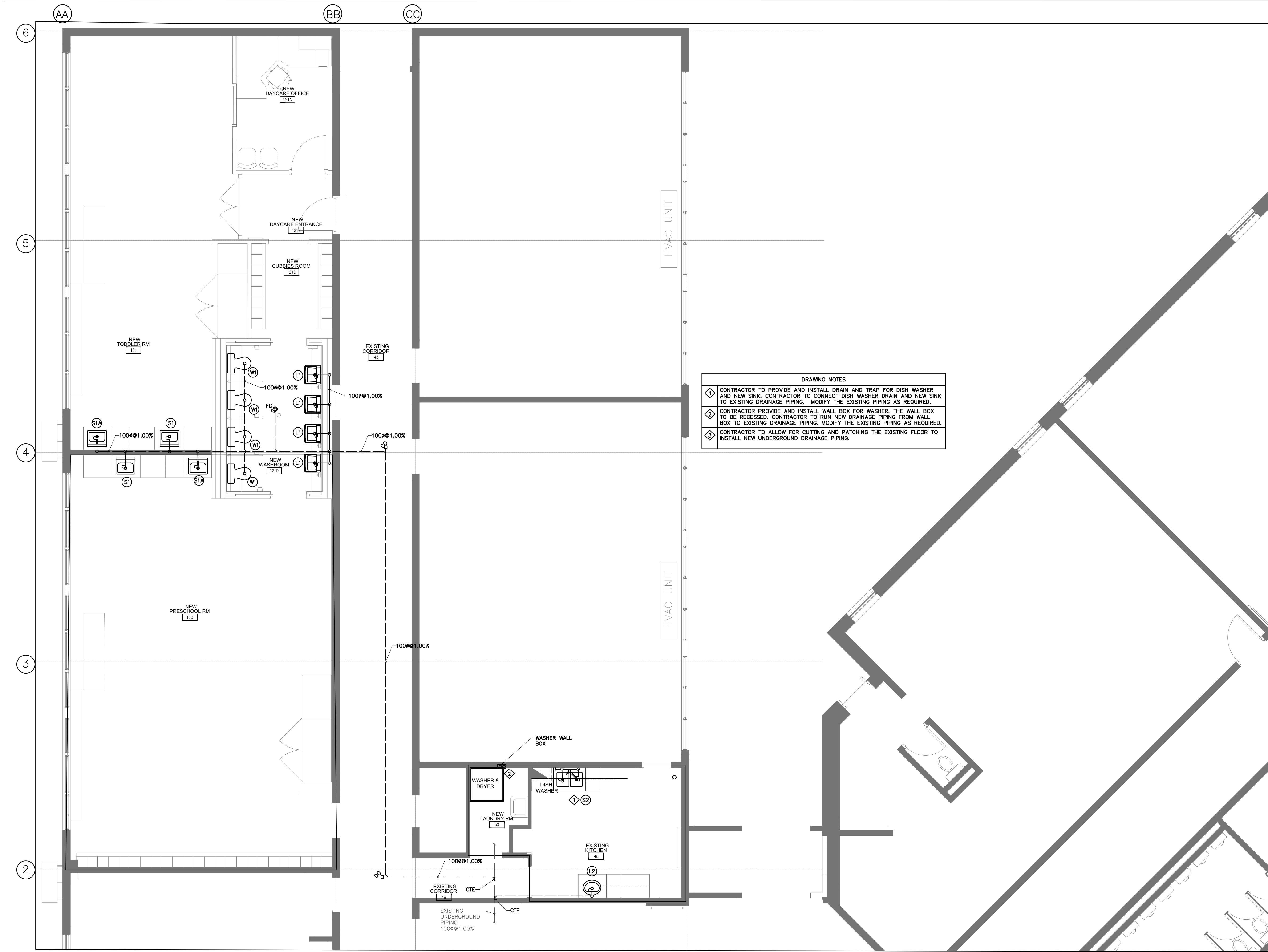
M2.0D

AS NOTED

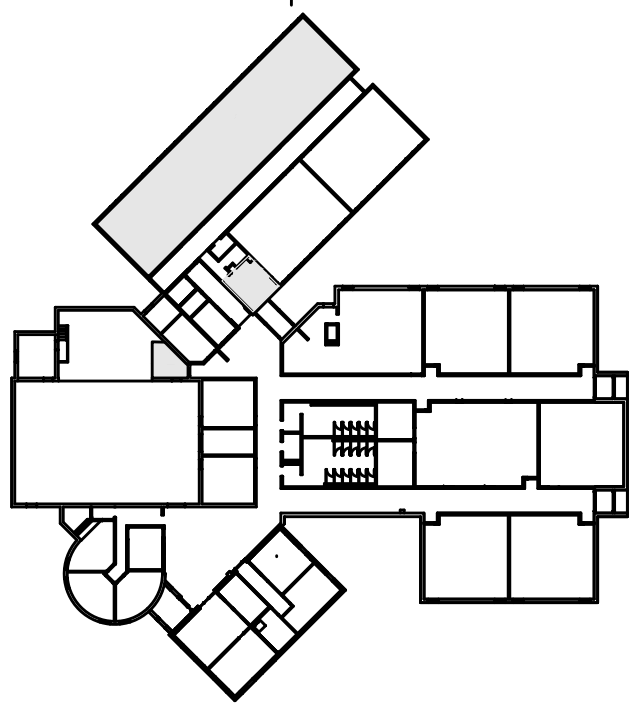
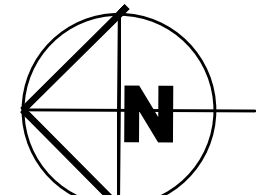
MAY 2018

2018-252





DRAWING NOTES	
1	CONTRACTOR TO PROVIDE AND INSTALL DRAIN AND TRAP FOR DISH WASHER AND NEW SINK. CONTRACTOR TO CONNECT DISH WASHER DRAIN AND NEW SINK TO EXISTING DRAINAGE PIPING. MODIFY THE EXISTING PIPING AS REQUIRED.
2	CONTRACTOR PROVIDE AND INSTALL WALL BOX FOR WASHER. THE WALL BOX TO BE RECESSED. CONTRACTOR TO RUN NEW DRAINAGE PIPING FROM WALL BOX TO EXISTING DRAINAGE PIPING. MODIFY THE EXISTING PIPING AS REQUIRED.
3	CONTRACTOR TO ALLOW FOR CUTTING AND PATCHING THE EXISTING FLOOR TO INSTALL NEW UNDERGROUND DRAINAGE PIPING.



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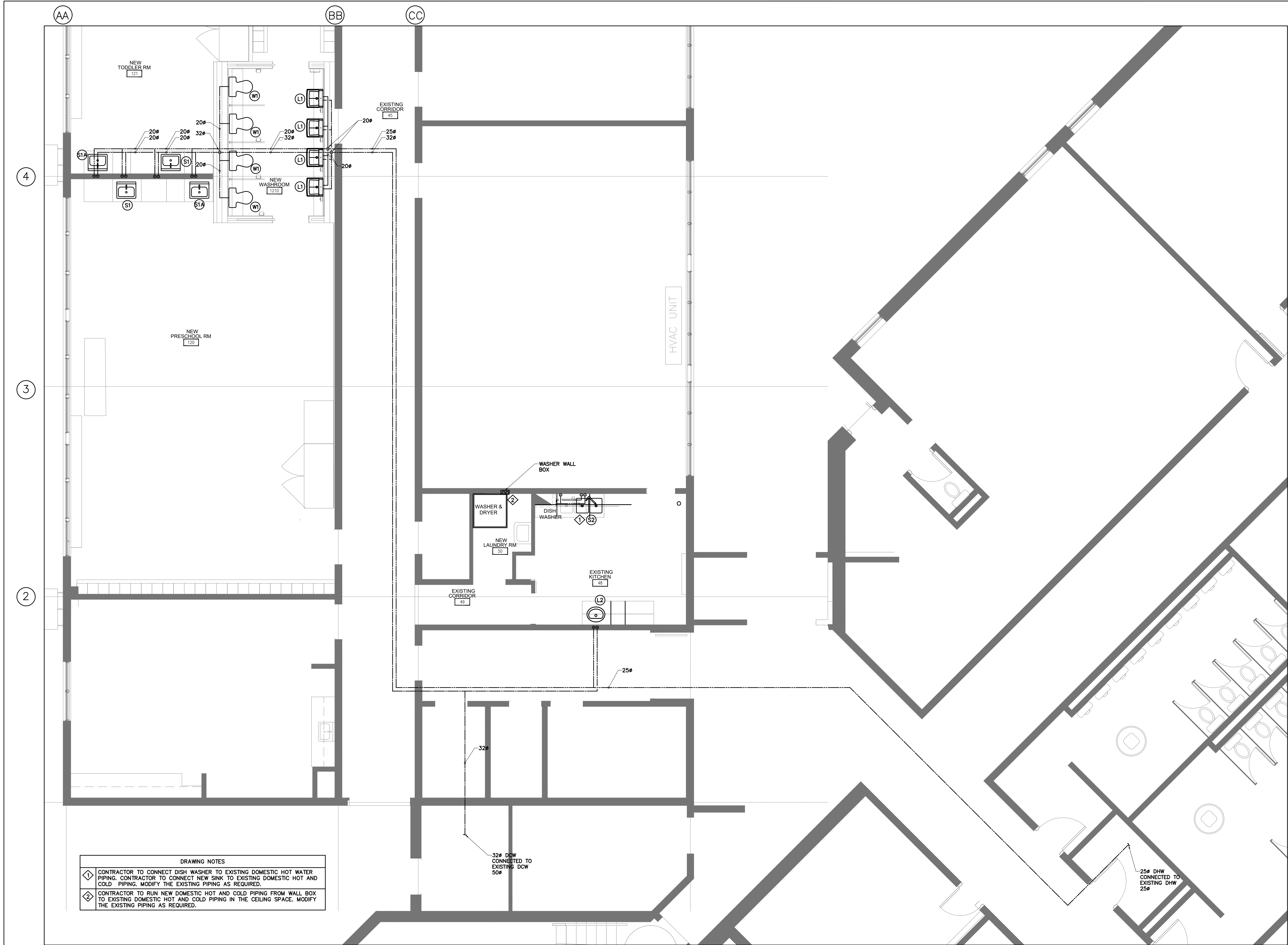
NEW DRAINAGE FLOOR PLAN

M1.0

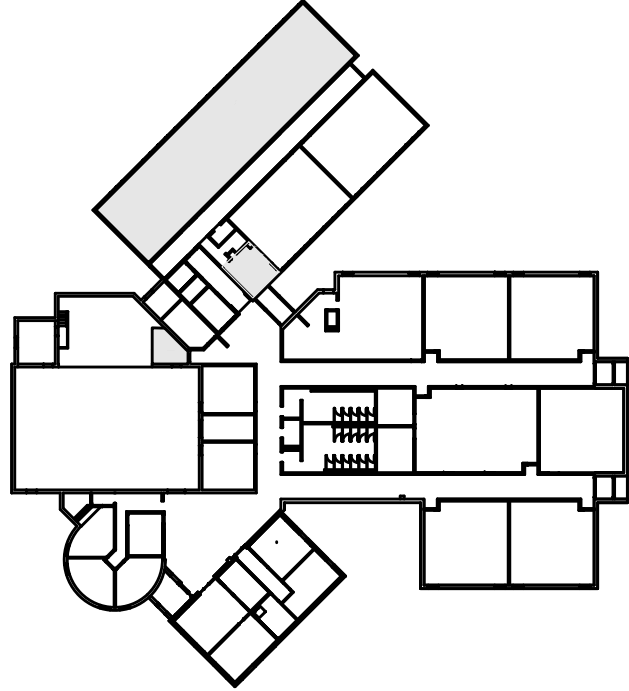
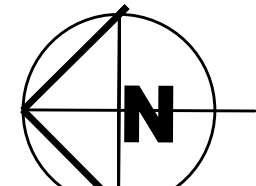
AS NOTED  
MAY 2018

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DRAWING NOTES	
	CONTRACTOR TO CONNECT DISH WASHER TO EXISTING DOMESTIC HOT WATER PIPING. CONTRACTOR TO CONNECT NEW SINK TO EXISTING DOMESTIC HOT AND COLD PIPING. MODIFY THE EXISTING PIPING AS REQUIRED.
	CONTRACTOR TO RUN NEW DOMESTIC HOT AND COLD PIPING FROM WALL BOX TO EXISTING DOMESTIC HOT AND COLD PIPING IN THE CEILING SPACE. MODIFY THE EXISTING PIPING AS REQUIRED.



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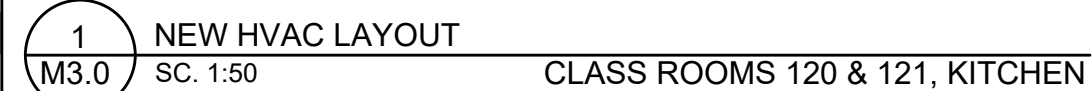
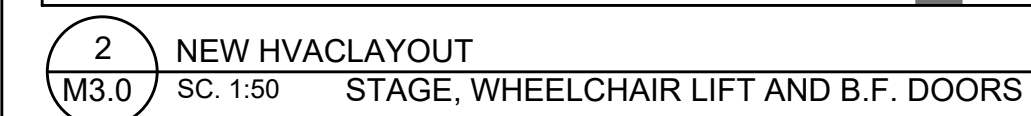
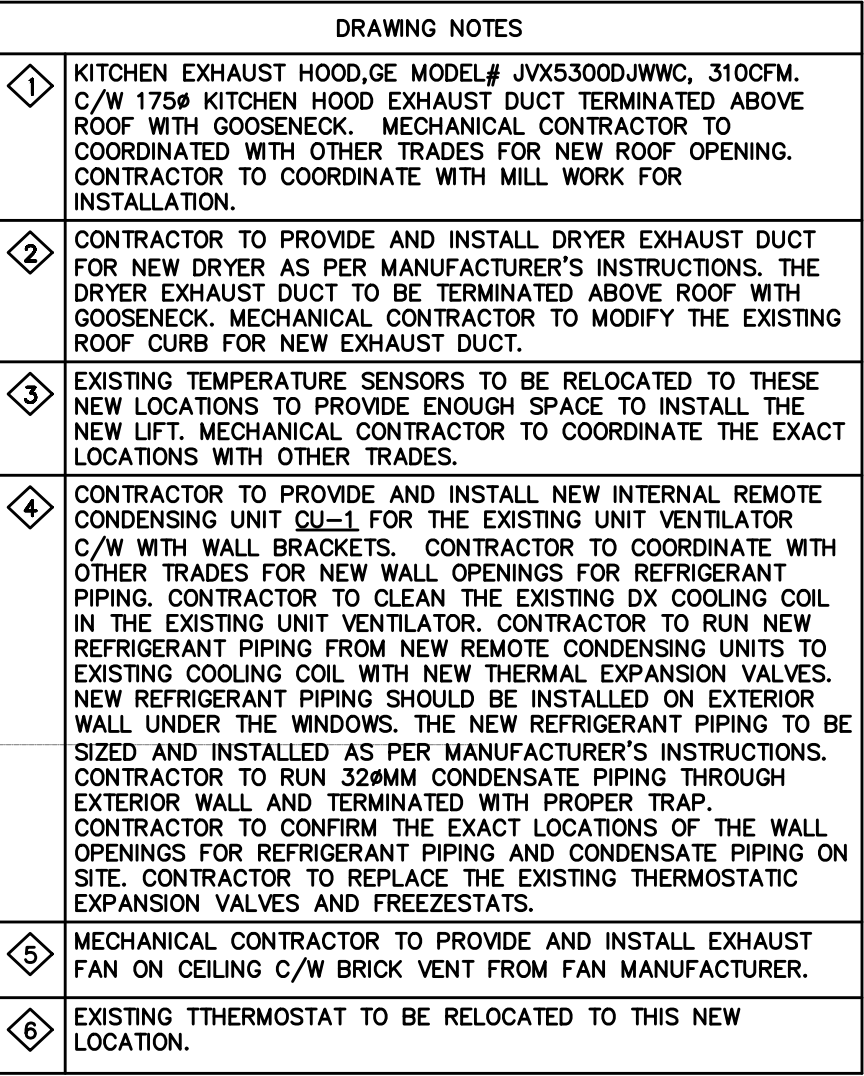
NEW PLUMBING FLOOR PLAN

M2.0

AS NOTED  
MAY 2018

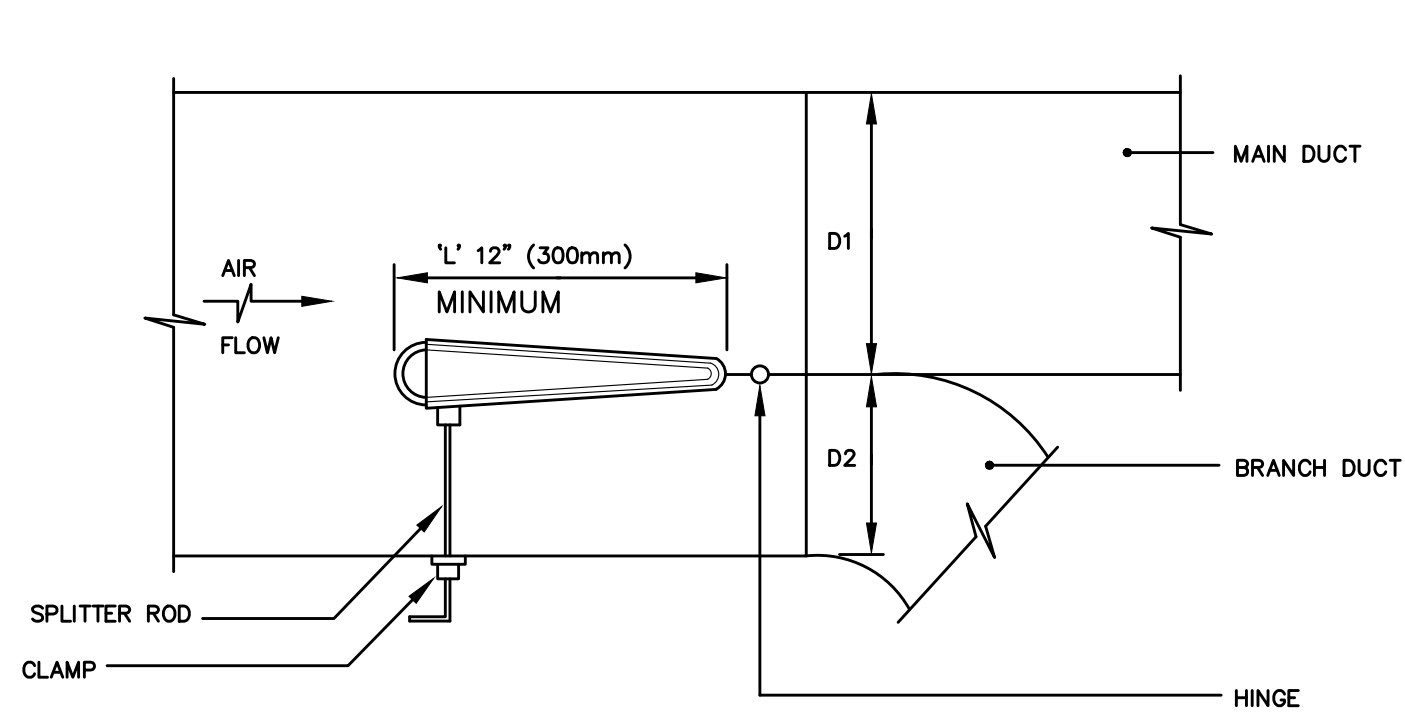
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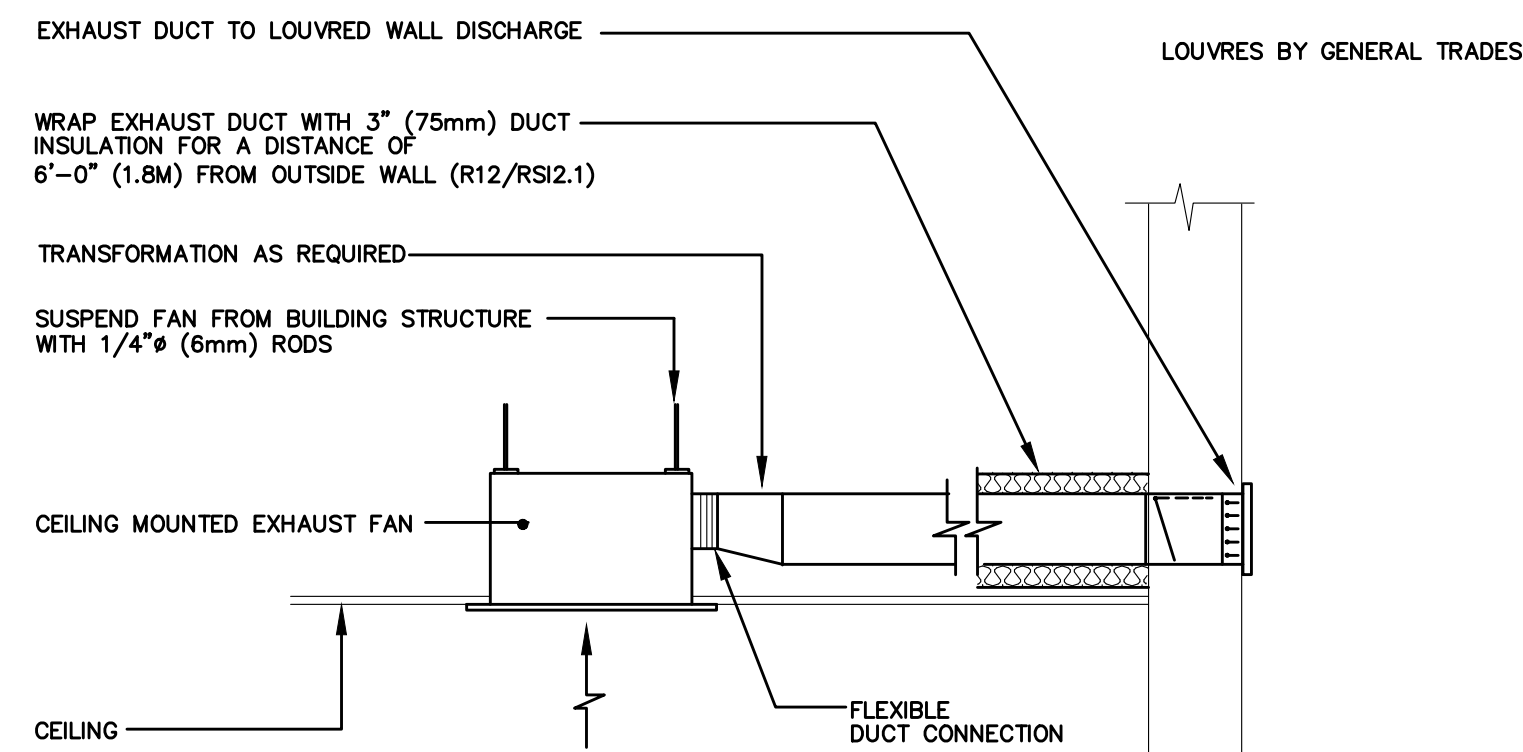
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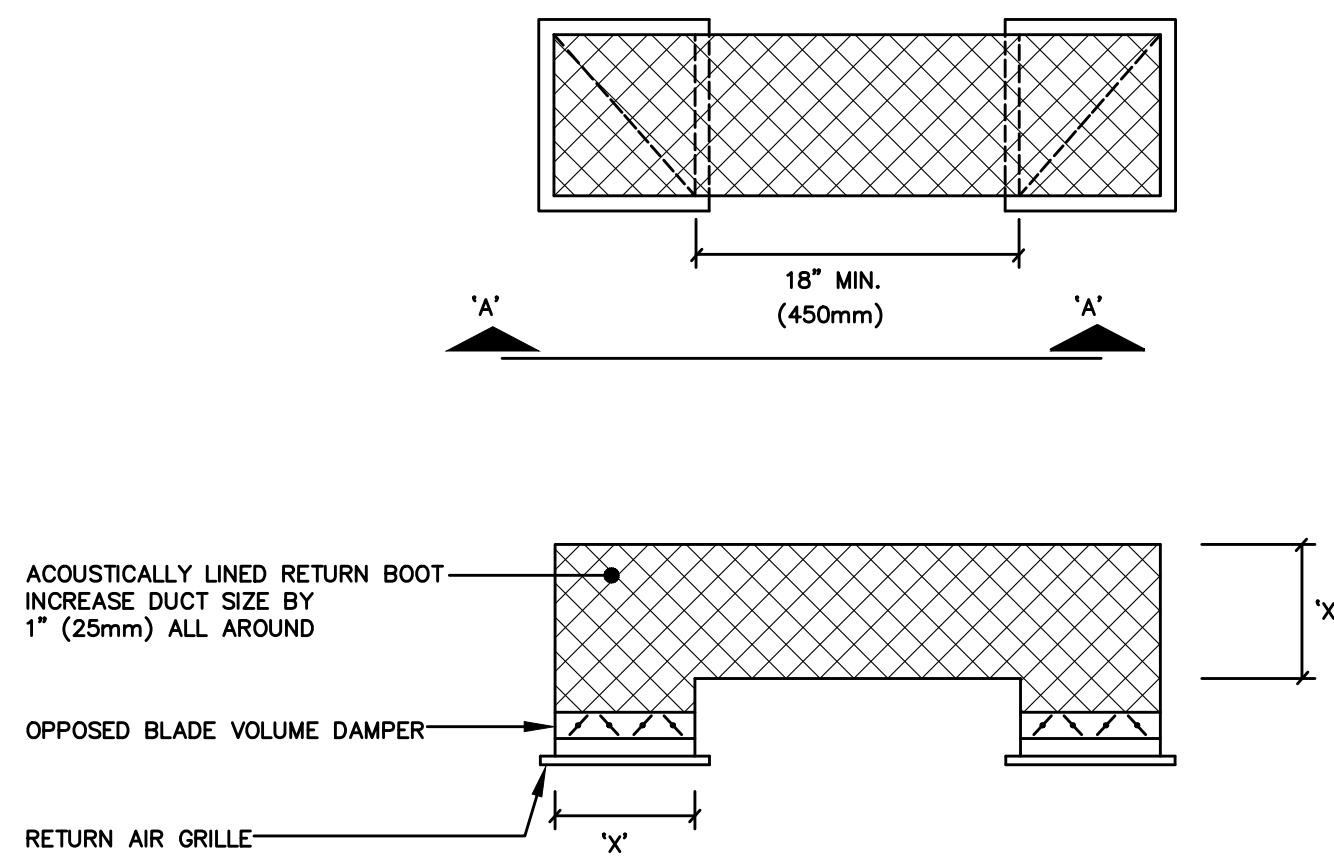


'L' = 1-1/2 D2 FOR 8\" (200mm) TO 24\" (600mm)  
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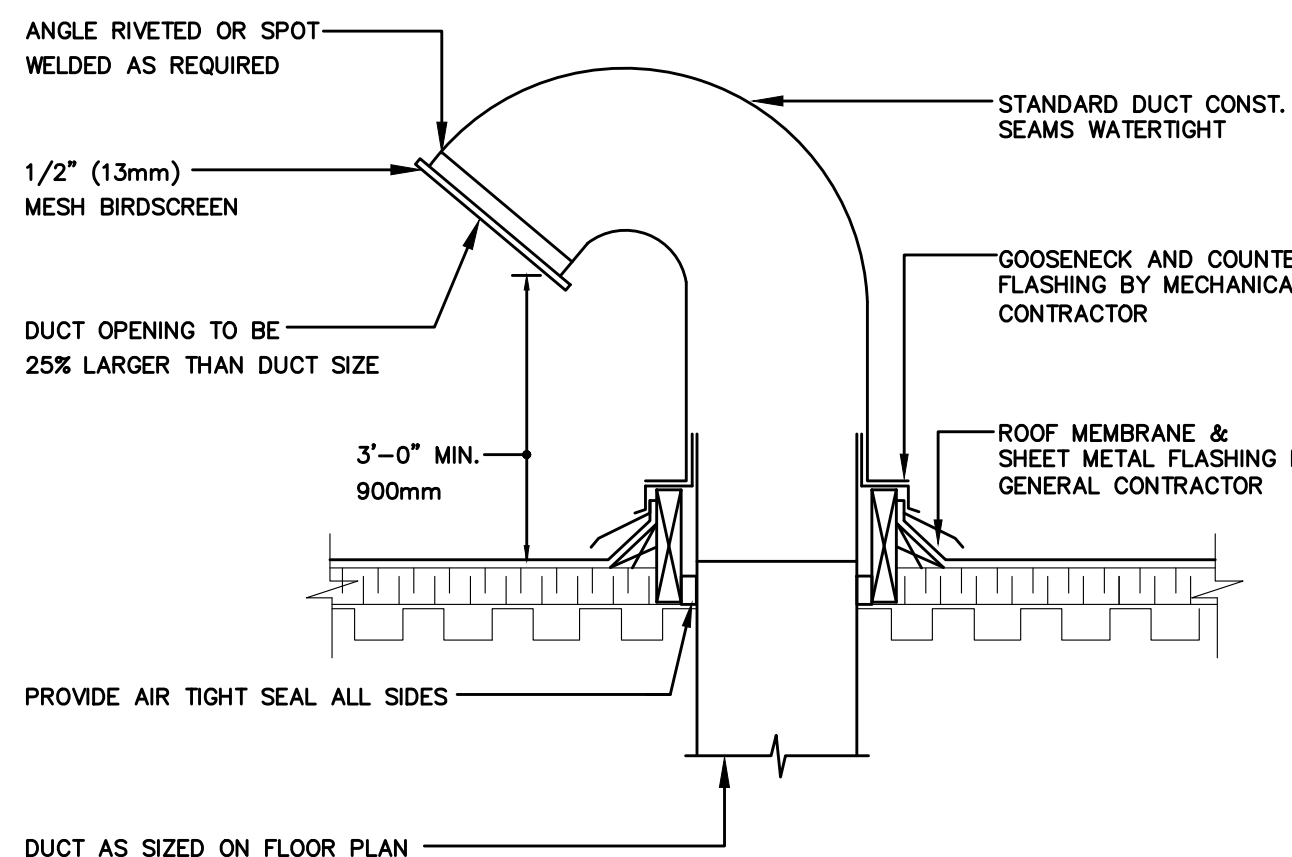
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DETAIL OF  
SPLITTER DAMPER



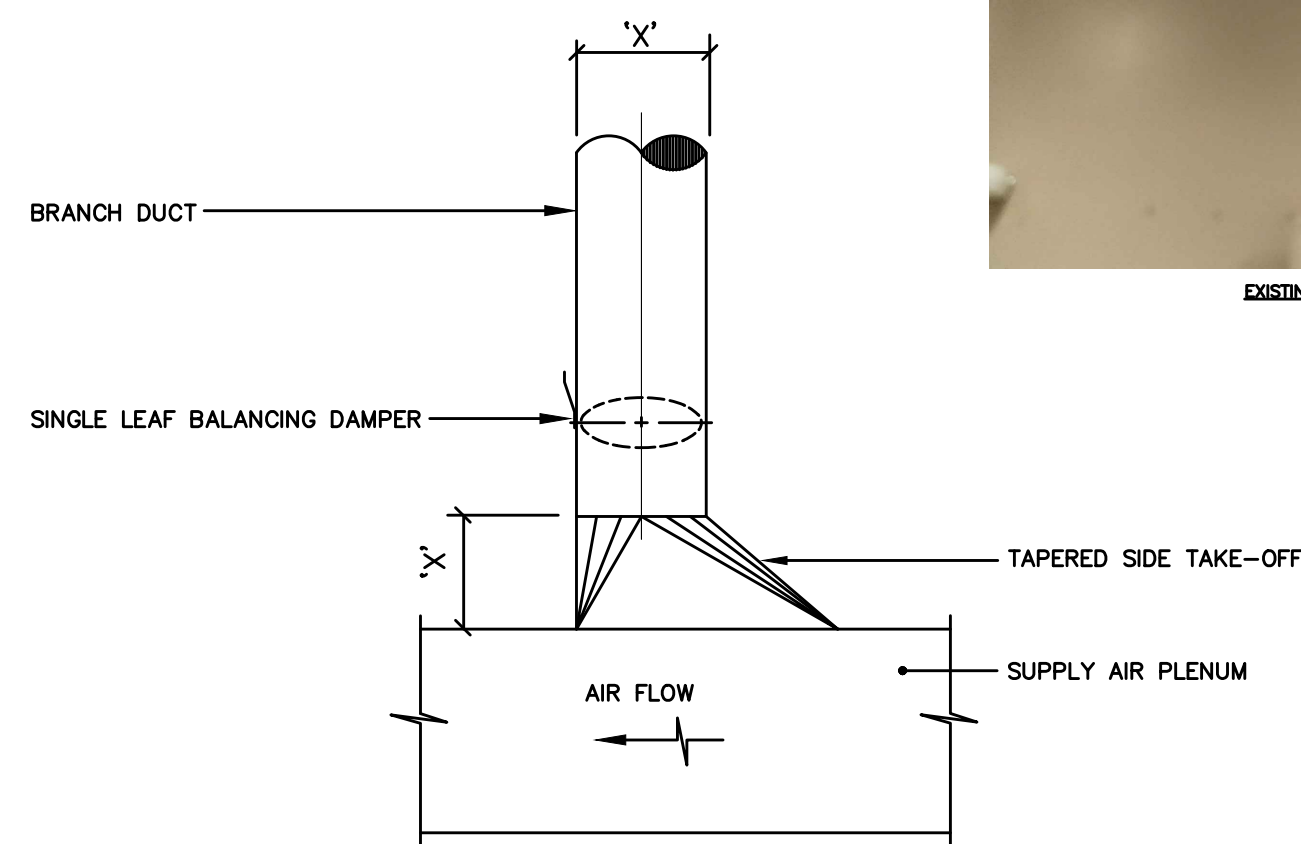
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DETAIL OF CEILING  
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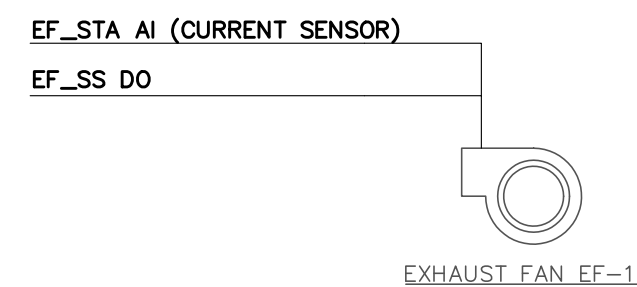
TITLE:  
DETAIL OF RETURN  
AIR GRILLE AND BOOT



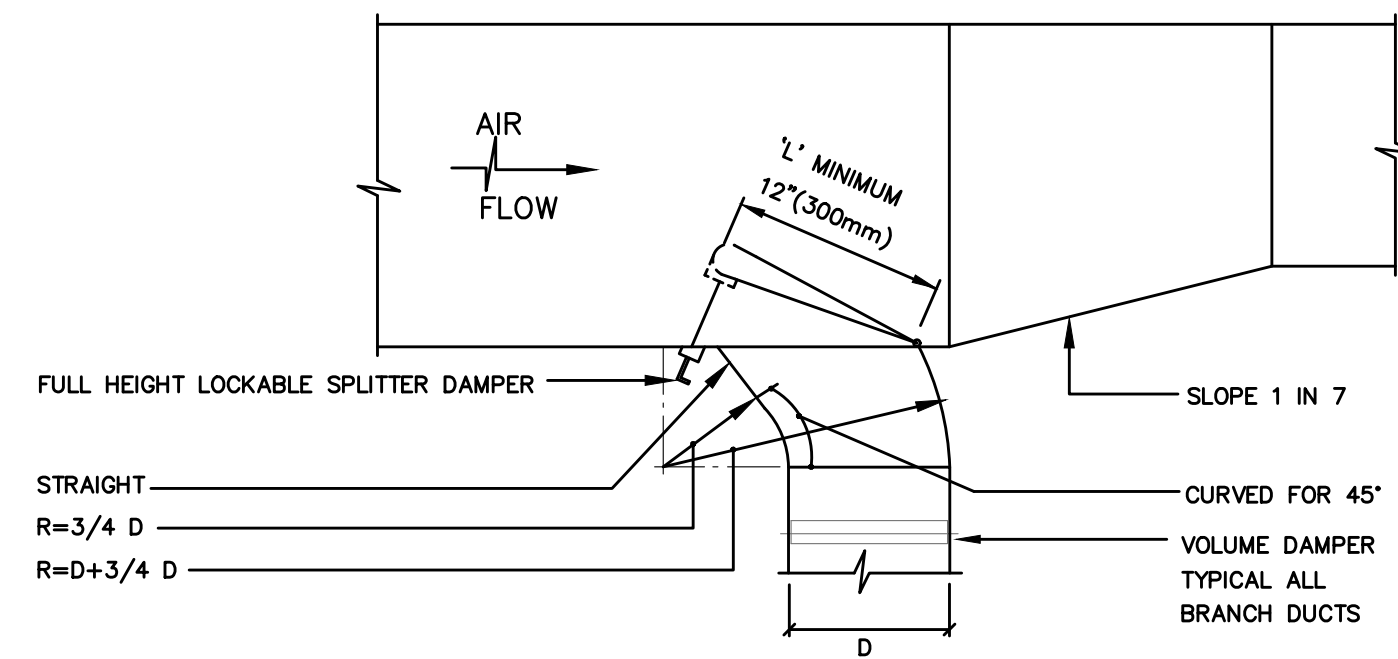
TITLE:  
DETAIL OF GOOSENECK



TITLE:  
DETAIL OF ROUND  
DUCT TAKE-OFF

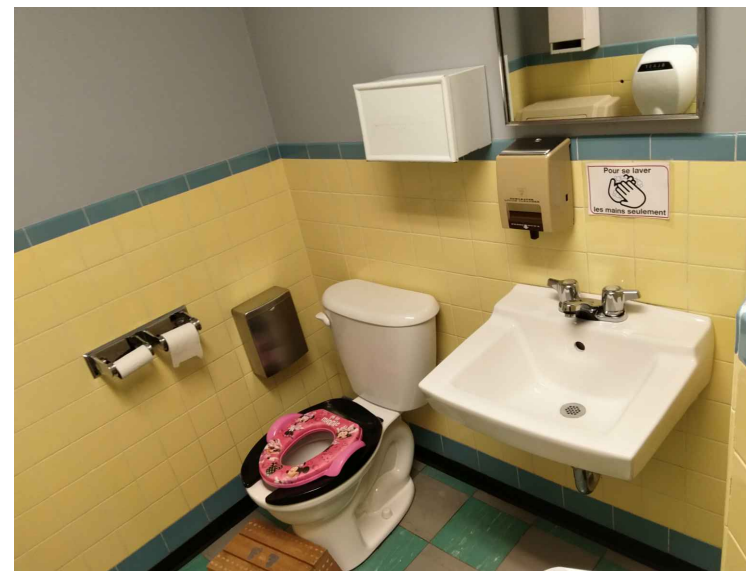


TITLE:  
DETAIL OF EXHAUST FAN CONTROL

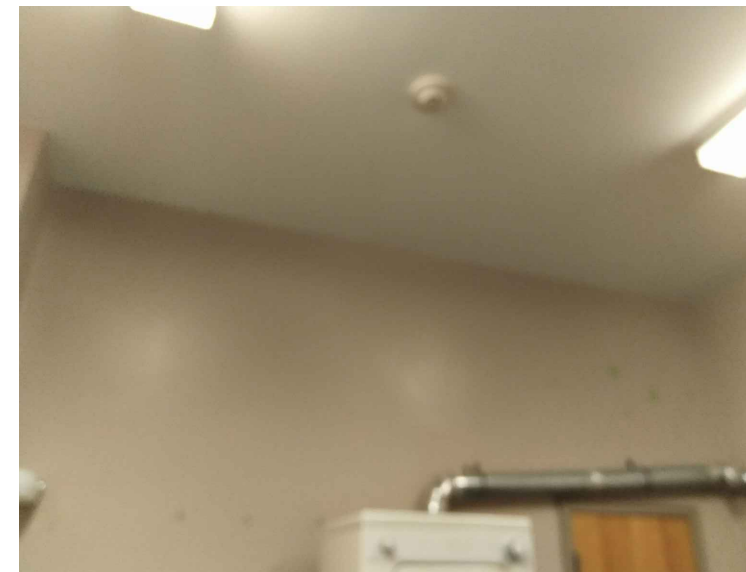


'L'=1-1/2 D FOR 8\" (200mm) TO 24\" (600mm)  
'L'=1-1/4 D FOR OVER 24\" (600mm)

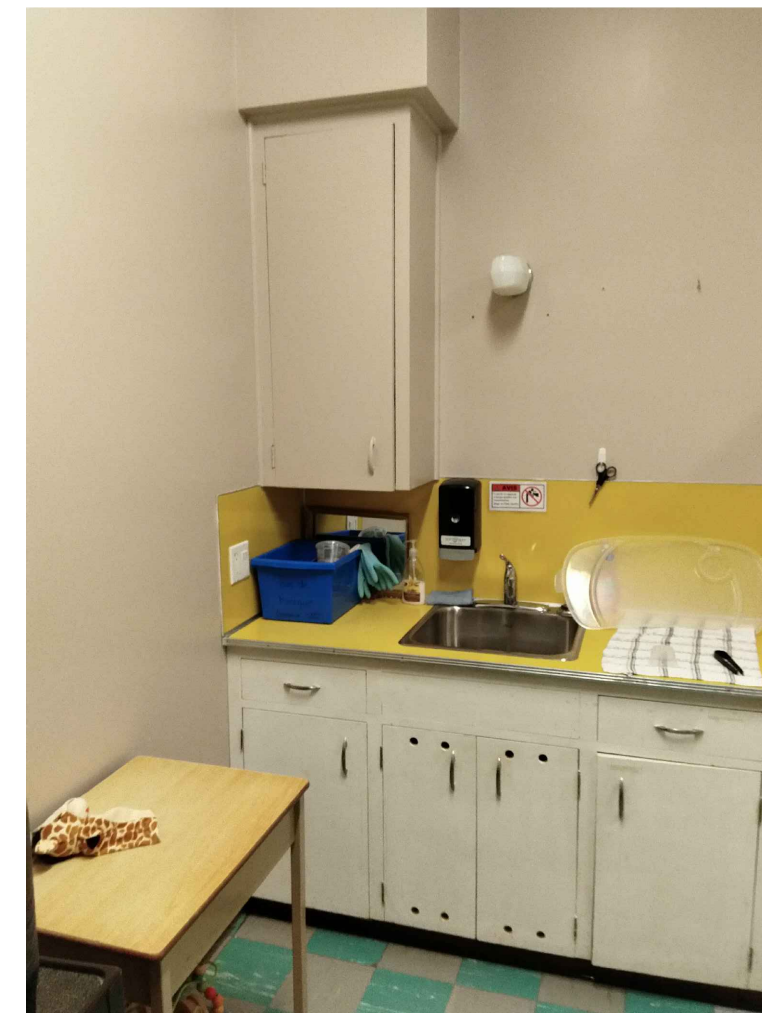
TITLE:  
DETAIL OF SUPPLY  
TAP-IN CONNECTION



EXISTING WASHROOM



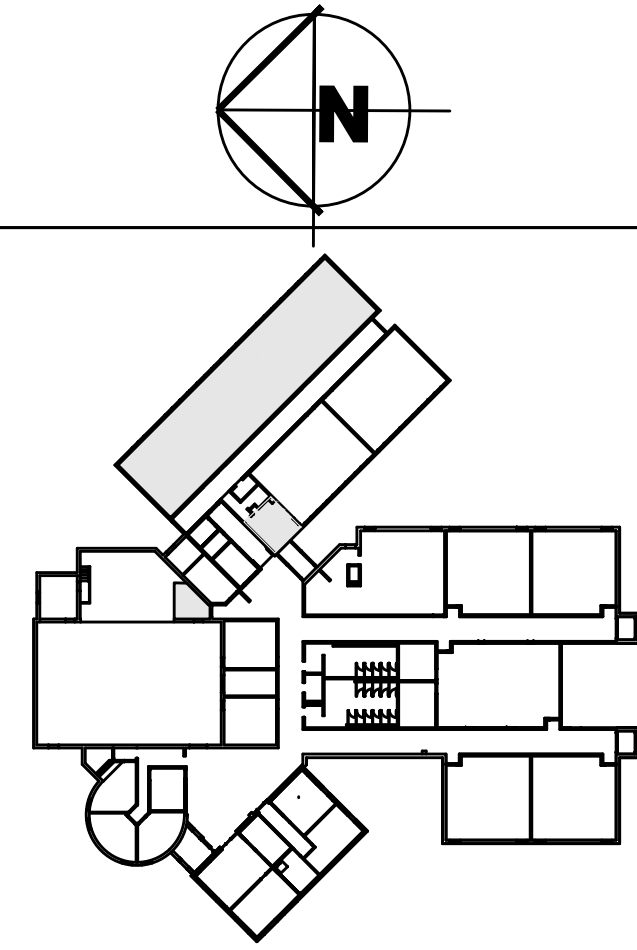
EXISTING KITCHEN - DRYER EXHAUST DUCT



EXISTING KITCHEN



EXISTING UNIT VENTILATOR IN CLASSROOM



KEY MAP

ISSUED FOR RE-TENDER JAN 11, 2021  
ISSUED FOR TENDER/PERMIT FEB 25, 2020  
ISSUED FOR REVIEW FEB 19, 2020  
ISSUED FOR REVIEW JAN 23, 2020  
ISSUED FOR PERMIT JULY 05, 2018  
ISSUED FOR TENDER JULY 05, 2018  
ISSUED FOR 80% DESIGN JUNE 15, 2018  
ISSUED FOR 66% DESIGN JUNE 07, 2018  
ISSUED FOR 33% DESIGN MAY 22, 2018



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TORONTO, ON

MECHANICAL DETAILS

M4.0

AS NOTED  
MAY 2018

2018-252







- DRAIN, ALL DUCO COATED 15" (380MM) DIA., CAST IRON BODY, WITH UNDER DECK CLAMP, ADJUSTABLE EXTENSION AND SUMP RECEIVER, 11" (280MM) SECURED C.I. DOME, ON SMALL AREA ROOFS PROVIDE SERIES 1330ERCCID DRAIN, WITH 8 1/2" (212MM) ALUMINIUM DOME, IN PATIO AND TRAFFIC AREAS PROVIDE SERIES 1470ERB DRAIN, WITH ADJUSTABLE SLOTTED EXTENSIONS AND 8" X 8" (200MM X 200MM) NICKEL BRONZE SQUARE PROMENADE TOP, INVERTED ROOF INSTALLATION USE SERIES 1017EPRCCID DRAINS.
6. FLOW CONTROL ROOF DRAINS SMITH SERIES 1083ERCCID FLOW CONTROL ROOF DRAIN SLOPED ROOF ALL DUCO COATED CST IRON BODY, WITH ECK CLAMP, ADJUSTABLE DETENTION AND SUM RECEIVER, 11" (280MM) SECURED C.I. DOME AND HIGH (150MM) FLOW RATE CONTROL WEIR, INVERTED ROOF INSTALLATION US SERIES 1017-65-ERPCID DRAINS.
7. PARAPET, SCUPPER DRAINS, GUTTER, AND PIT DRAINS TO BE SMITH SERIES 1501/305G SCUPPER DRAIN, ALL DUCO COATED CAST IRON BODY, WITH SECURED ANGLED CRATE, FLASHING CLAMP AND 45 DEGREE OR 90 DEGREE OUTLETS, FOR GUTTER INSTALLATION USE SMITH SERIES 1630, WITH 4 1/2 (114MM) HIGH DOME.
8. FLOOR DRAINS IN FINISHED AREAS TO BE SMITH SERIES 2005A FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, REVERSIBLE CLAMP DEVICE AND ADJUSTABLE 5" DIAMETER (127MM) NICKEL BRONZE 1/4" (6.35MM) THICK STRAINER, SECURED WITH I.S.S. SCREWS, 4" (100MM) THROAT ON STRAINER, IN QUARRY OR MOSAIC TILED AREAS, PROVIDE SQUARE "B" - 5"X5" (127MM X 127MM) POLISHED BRONZE (PB) SQUARE STRAINER, FLOOR DRAIN WITH FUNNEL PROVIDE 2005A-3580NB.
9. FLOOR DRAINS IN MECHANICAL ROOMS AND UNFINISHED AREAS TO BE SMITH SERIES 2320 FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8" (200MM) DIAMETER GRATE, FLOATING FLOORS PROVIDE 9340, WITH MOMENT COMPENSATOR AND VIBRATION ISOLATOR.
10. FLOOR DRAINS WITH COMBINATION FUNNEL TO BE SMITH SERIES 2320-359FUNNEL FLOOR DRAIN, ALL DUCO COATED CAST IRON BODY, SEEPAGE FLANGE, ADJUSTABLE COLLAR, CLAMPING DEVICE AND 8-1.2" (216MM) WITH 4" X 9" (101.6MM X 228.6MM) OVAL FUNNEL, FLOATING FLOOR PROVIDE 9340-3591, WITH MOVEMENT COMPENSATOR AND VIBRATION ISOLATOR.
11. EXTERIOR NON-FREEZE WALL HYDRANT TO BE SMITH SERIES 5609QTNB HYDRANT, 1/4 TURN NON-DROP, CERAMIC CARTRIDGE, 3/4" (19MM) NON-FREEZE WALL TYPE WITH BRONZE FACE, ADJUSTABLE COVER AND FLANGE OPERATION KEY AND SERF-DRAINING INTEGRAL VACUUM BREAKER, LENGTH TO SUIT WALL THICKNESS.
12. INTERIOR HOSE BIBB TO BE CAMBRIDGE BRASS #32W201 HOSE BIBB, 1/2" (12.7MM) SIZE, WALL TYPE ROUGH BRONZE WITH HOSE END VACUUM BREAKER.
13. LINE CLEANOUTS TO BE SMITH SERIES #4420 LINE CLEANOUTS, IN CAST IRON PIPE WITH BOLTED NEOPRENE GASKETED COVER SECURED TO BODY WITH BRASS BOLTS, WITH FULL SIZE PIPE OPENING.
14. STACK CLEANOUT TO BE SMITH SERIES #4510 STACK CLEANOUT, IN BASE OF CAST IRON STACK WITH NEOPRENE GASKETED SECURED COVER, WHERE CLEANOUTS ARE CONCEALED BEHIND FINISHED WALLS ACCESS SHALL BE MADE BY SMITH 4530 ROUND STAINLESS STEEL PLATE AND SLOTTED FLAT HEAD STAINLESS STEEL SCREWS.
15. URINAL CLEANOUT TO BE SMITH SERIES S04-1819 URINAL WALL ACCESS CLEANOUT , WITH S.S BOLT AND WING NUT, COMPLETE WITH ROUND POLISHED S.S. ACCESS COVER AND SECURED WITH V.P. SCREW.
16. FLOOR CLEANOUTS IN UNFINISHED AREAS AND OUTSIDE AREAS, SMITH SERIES 4220 FLOOR CLEANOUT, DUCO COATED CAST IRON BODY WITH INTEGRAL CLAMP DEVICE, AND REMOVABLE POSITIVE SEAL CLOSURE PLUG AND HEAVY DUTY 1/2" (12.7MM) ADJUSTABLE COVER SECURED WITH STAINLESS STEEL SCREWS.
17. FLOOR CLEANOUTS IN TILED AREAS, SMITH SERIES 4140 FLOOR CLEANOUT, SAME AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESSED FOR TILE COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
18. FLOOR CLEANOUTS IN TERRAZZO AREAS, SMITH SERIES 4180 FLOOR CLEANOUT, SAM AS ABOVE WITH SQUARE NICKEL BRONZE COVER AND FRAME RECESS FOR TERRAZZO, COVER CAN BE ADJUSTED TO SUIT FLOOR LINES WHEN INSTALLING FINISHED FLOOR.
19. FLOOR CLEANOUTS IN CARPETED AREAS, SMITH SERIES 4020Y FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE COVER AND FRAME.
20. FLOOR CLEANOUTS IN OTHER FINISHED AREAS, SMITH SERIES 4020 FLOOR CLEANOUT, SAME AS ABOVE WITH NICKEL BRONZE FRAME AND COVER.
21. FLOOR CLEANOUTS FOR HEAVY TRAFFIC AREAS, SMITH SERIES 4100 FLOOR CLEANOUT, SAME AS ABOVE WITH EXTRA HEAVY NICKEL BRONZE COVER AND FRAME.
22. TRAP SEAL PRIMER SERVING 1 OR 2 DRAINS TO BE P.P.P. INC. MODEL PO-500 AUTOMATIC TRAP SEAL PRIMER VALVE, SEARING INDIVIDUAL OR REMOTE AREA DRAINS WITH 3" NPT (MTOF) CONNECTIONS WITH STRAINER AND INTEGRAL BACK FLOW PREVENTER VACUUM BREAKER.
23. PROVIDE ISOLATION VALVES ON ALL MAIN LINES, BRANCH LINES AND AT PIECES OF EQUIPMENT, ALL VALVES SHALL BE JENKINS, CRANE OR EQUAL WITH A MINIMUM RATING OF 125K OF THE SYSTEM DESIGN PRESSURE.
24. ALL ABOVE GRADE PIPING IS TO BE INSULATED WITH FIBREGLOSS INSULATION TO PREVENT CONDENSATION OR TO RETAIN HEAT FOR ENERGY EFFICIENCY, INSULATION SYSTEM TO BE SCHULLER MICRO-LOK OR EQUAL, WITH SIZES AS SHOWN BELOW.
- | SERVICE & PIPE SIZE                   | INSULATION REQUIRED |
|---------------------------------------|---------------------|
| RAIN WATER LEADERS (ANY SIZE)         | 1"                  |
| SANITARY DRAINS (ANY SIZE)            | 1"                  |
| DOMESTIC COLD WATER (ANY SIZE)        | 1"                  |
| DOMESTIC HOT WATER (2" & SMALLER)     | 1"                  |
| DOMESTIC HOT WATER (2½" & LARGER)     | 1½"                 |
| DOMESTIC HOT WATER REIRC.(ANY SIZE)   | 1"                  |
| DOMESTIC WATER (HOT OR COLD) BRANCHES | ½"                  |
25. IDENTIFY ALL PIPE OR PIPE COVERING WITH SMILLIE MCADAMS SUMMERLIN LTD. OIL-CURE MARK OR ADHESIVE STYLE BUILDING SERVICE PIE MARKER, ALL IDENTIFICATION SHALL INCORPORATE DIRECTION OF FLOW ARROW AND THE MANUFACTURES STANDARD SYSTEM DESIGNATION, IDENTIFICATION MUST BE APPLIED AT INTERVALS NOT GREATER THAN 40 FT. (12M), ADJACENT TO VALVES, BEHIND ACCESS DOORS, AT CHANGES (NON-AERATING) OUTLET, 131 MM (5-1/8") PROJECTION REACH, LEVER HANDLE. LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F), SET VALVE TEMPERATURE AT 46 °C (114.8 °F), PROVIDE TEE, ADAPTORS AND FLEX, COPPER TUBING TO SUIT INSTALLATION, PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET, MCGUIRE #155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE, MCGUIRE #LFH16SLKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.
26. IDENTIFY ALL VALVES BY MEANS OF A 1-1/4" (32MM) DIAMETER BRASS TAG WITH 3/8" (9.5 MM) STAMPED BLACK PAINT FILLED CHARACTERS, OR A 1-1/4" (32MM) SQUARE ENGRAVED TWO-PLY PLASTIC TAG WITH 3/8" (9.5MM) BLACK CHARACTERS ON WHITE BACKGROUND, TAGS TO BE CONSECUTIVELY NUMBERED AND SECURED TO VALVES BY A BRASS BEAD CHAIN, PROVIDE AND MOUNT FOR OWNER A TYPED VALUE DIRECTORY IN A BLACK DOCUMENT FRAME, LISTING VALVE NUMBER, LOCATION, AND SERVICE, INDIVIDUAL FIXTURE VALVES NEED NOT BE IDENTIFIED.
27. IDENTIFY ALL EQUIPMENT SUCH AS, BUT NOT LIMITED TO FANS, PUMPS, MOTORS AHU'S AND THEIR RELATED STARTERS BY MEANS OF ON ENGRAVED TWO-PLY PLASTIC I.D. PLATE, EQUIPMENT I.D. PLATES SHALL HAVE 3/8" (9.5 MM) WHITE CHARACTERS ON BLACK BACKGROUND; STARTER I.D. PLATES SHALL BE AS ABOVE WITH 1/8"(3.1MM)CHARACTERS, ALL PLATES SHALL BE SIZED TO ACCOMMODATE REQUIRED DESCRIPTION BEARING TYPE OF EQUIPMENT, NUMBER AND SERVICE, LOCATE CONSPICUOUSLY AND SECURE WITH SELF ADHESIVE TAPE, RECOGNIZED ABBREVIATIONS WILL BE ACCEPTABLE, OTHER PROPOSED ABBREVIATIONS TO BE APPROVED BY THE CONSULTANT.
28. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES OR EQUIPEMNT, SIZE OF PANELS TO ALLOW FOR MAINTENANCE OR REMOVAL OF ITEM.
29. UNIVERSAL ACCESS DOORS FOR WALLS AND CEILINGS TO BE ACUDOR SERIES UF-5000 ACCESS DOORS, 14 GA. (17MM) STEEL, RUST RESISTANT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK, DOORS IN TILE WALLS SHALL BE STAINLESS STEEL AND SHALL SUIT TILE PATTERN, ALL OTHER PANELS SHALL BE PRIME PAINTED STEEL, MINIMUM SIZE OF PANELS SHALL BE 12" X 18" (300MM X450MM), WHEREVER POSSIBLE 24" X 24" (600MM X 600MM) PANELS SHALL BE USED.
30. RECESSED ACCESS DOOR FOR TILE APPLICATIONS TO BE ACUDOR SERIES AT-5020 RECESSED ACCESS DOOR FOR CEILING TILE, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HINGE AND ALLEN KEY OPERATED LOCK, DOOR TO BE RECESSED 5/8" (14MM) TO RECEIVE CEILING TILE, FOR CERAMIC WALL TILE PROVIDE #AT-5020SS STAINLESS STEEL RECESSED ACCESS DOOR WITH ALLEN KEY LOCK.
31. RECESSED ACCESS DOOR FOR DRYWALL APPLICATIONS TO BE ACUDOR SERIES DW-5015 RECESSED ACCESS DOOR, 16 GA. (1.5MM) STEEL WITH CONCEALED PIVOTING ROD TYPE HINGE AND SELF-OPENING SCREWDRIVER OPERATED LOCK, DOOR TO BE RECESSED 5/8"(14MM) TO RECEIVE DRYWALL, FLANGE OF DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS.
32. FIRE RATED ACCESS DOORS TOBE INSULATED ACUDOR SERIES FW-5050 FIRE RATED ACCESS DOORS, FOR WALLS AND CEILING UL/ULC 1-1/2 HOUR "B" LABEL WITH MAXIMUM TEMPERATURE RISE OF 250 DEGREES AFTER 30
- MINUTES, DOOR WITH 2' (50MM) INSULATION, STEEL, 20 GA (1MM) WITH 16 GA. (1.6MM) FRAME, CONCEALED HINGE, SELF LATCHING RING PULL AND GREY BAKED ENAMEL FINISH.
33. PROVIDE PLUMBING FIXTURES AND EQUIPMENT AS SPECIFIED ON THE DRAWINGS, ALL ITEMS TO BE NEW AND OF THE HIGHEST QUALITY, ALL ITEMS INSTALLED BY THIS CONTRACTOR MUST BE INSTALLED COMPLETE AND INCLUDE ALL PIPING, VALVES AND MISCELLANEOUS FITTINGS, CONTROLS, SUPPORT BASE OR STRUCTURE, TO ENSURE A TOTALLY FUNCTIONAL UNIT OR SYSTEM, COORDINATE INSTALLATION WITH OTHER TRADES AS REQUIRED.
34. ALL PLUMBING INSTALLATIONS ARE TO BE IN THE BEST WORKMANLIKE MANNER AND IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE.
35. SUPPORT ALL PIPING AS FOLLOWS:
- | PIPE SIZE                | DISTANCE BETWEEN SUPPORTS |
|--------------------------|---------------------------|
| 1" & SMALLER (METALLIC)  | 6'-0" MAXIMUM             |
| 1½" & SMALLER (METALLIC) | 8'-0" MAXIMUM             |
| 2" & SMALLER (PLASTIC)   | 3'-0" MAXIMUM             |
| 1½" & SMALLER (PLASTIC)  | 4'-0" MAXIMUM             |
36. PROVIDE SLEEVES FOR ALL PIPING PENETRATING WALLS AND FLOORS, ENSURE ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES ARE PROPERLY SEALED WITH AN APPROVED COMPOUND.
37. ALL TRENCHING, BEDDING, AND BACKFILL OF BURIED PIPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
- PLUMBING FITTINGS AND ACCESSORIES**
- |               |                 |                        |
|---------------|-----------------|------------------------|
| VALVES        |                 |                        |
| GATE VALVES:  | NPS 2 AND UNDER | CRANE 1320 / CRANE 428 |
|               | OVER NPS 2      | CRANE 465 1/2          |
| GLOBE VALVES: | NPS 2 AND UNDER | CRANE 1310             |
| CHECK VALVES: | NPS 2 AND UNDER | CRANE 1342             |
|               | OVER NPS 2      | CRANE 373              |
| BALL VALVES:  | NPS 2 AND UNDER | CRANE 9322S            |
- FLOOR DRAINS**
- FINISHED FLOORS ZURN ZN-211BP, 125BP, 125 MM ROUND NICKEL BRONZE STRAINER.
  - UNFINISHED AREAS ZURN ZZN-211AP - IN WATERPROOF MEMBRANE AREAS USE ZZN-401AP NICKEL BRONZE STRAINER.
  - CERAMIC TILE AREAS ZURN ZZN-211 HP WITH NICKEL BRONZE STRAINER,150X150 SIZE.
  - ANCON DRAINS CONSIDERED EQUAL TO ZURN.
- CLEANOUTS**
- CLEANOUT PLUGS (CAST IRON) HEAVY CI MALE FERRULE WITH BRASS SCREWS AND THREADED BRASS OR BRASS PLUG, SEALING-CAULKED SEAT OR WITH NEOPRENE GASKET, ACCEPTABLE MATERIALS: ZURN Z1450 SERIES, ANCON.
- PLUMBING FIXTURES**
- U1 WALL HUNG BASIN - METERING FAUCET - POINT OF USE THERMOSTATIC WATER MIXING VALVE**
- WALL HUNG BASIN - VITREOUS CHINA - WHITE FINISH - 3 HOLES, 4" (102 MM) CENTER - FRONT OVERFLOW - FAUCET LEDGE - BACK SPLASH - 32 MM (1-1/4") WASTE - ASSEMBLY (NOT INCLUDED) - WALL HANGER, NOMINAL DIMENSIONS: 457 MM (18") WIDE X 403 MM (15-7/8") FRONT TO BACK X175 MM (6-7/8") HIGH, BOWL DIMENSIONS: 340 MM X 216 MM X 127 MM (13-3/8" X 8-1/2" X 5"), SHIPPING WEIGHT: 14.5 KG (32 LBS).
- AMERICAN STANDARD 5500.140.002 MONTERREY TWO HANDLES FAUCET, POLISHED CHROME FINISH, CAST BRASS BODY, AERATOR OUTLET, CAST BRASS SPOUT, 95 MM (3-3/4") PROJECTION, VANDAL RESISTANT RED AND BLUE INDEXED LEVER HANDLES, 13 MM (1/2") MALE THREADED INLET SHANKS WITH BRASS COUPLING NUTS.
- LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F), SET VAL TEMPERATURE AT 46 °C (114.8 °F), PROVIDE TEE, ADAPTORS AND FLEX, COPPER TUBING TO SUIT INSTALLATION, PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET, MCGUIRE #155A OPEN GRID DRAIN, CAST BRASS ONE PIECE TOP, 17 GA. (1.5 MM) TUBULAR 32 MM (1-1/4") TAILPIECE, MCGUIRE #LFH16SLKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.
- CA-311 FIXTURE CARRIER, STEEL HANGER PLATE, HEAVY GAUGE EPOXY COATED STEEL OFFSET UPRIGHTS WITH WELDED FEET SUPPORTS, PLATED HARDWARE, MINIMUM SPACE REQUIRED: FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE.
- L2 COUNTER MOUNTED SELF-RIMMING / DROP-IN BASIN - SINGLE HANDLE FAUCET - POINT OF USE THERMOSTATIC WATER MIXING VALVE**
- OVALYN UNDERCOUNTER SINK, CLASSIC OVAL UNDERMOUNT SINK, MADE FROM VITREOUS CHINA, FRONT OVERIOW, SUPPLIED WITH MOUNTING KIT (047194-0070A) AND TEMPLATE, 0495.300 GLAZED UNDERSIDE 435 X 359MM (17-1/8" X 14-1/8"), COMPLIANCE CERTIFICATIONS -MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS: ASME A12.19.2M FOR VITREOUS CHINA FIXTURES AND CAN/CSA B45 SERIES, CHICAGO FAUCETS 420 SERIES #420-ABCP SINGLE HANDLE FAUCET, CHROME PLATED FINISH, ECOST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, VOLUME CONTROL AND HOT WATER LIMIT STOP CERAMIC CARTRIDGE, 5.7 LPM (1.5 GPM) PRESSURE COMPENSATING LAMINAR FLOW FLOOR MOUNTED, SPOUT, JET FLUSH ACTION, 4.8 L (1.28 US GAL) PER FLUSH, RAISED SANITARY BAR, 254 MM X 229 MM (10" X 9") WATER SURFACE, TWO (2) PIECE, 'SPEED CONNECT' TANK ASSEMBLY, SIPHON JET FLUSH ACTION, RAISED SANITARY BAR, UNLINED TANK, BOLTED TANK COVER, 51 MM (2") FLUSH VALVE BOTH FLAPPER, "PILOT VALVE" WATER CONTROL (WITHOUT FLOAT) FOR QUIET REFILL, 254 MM (10") ROUGH-IN, ROUND FRONT BOWL, 51 MM (2") FULLY GLAZED INTERNAL TRAPWAY, FLOOR OUTLET, BOLT CAPS, TOILET SEAT NOT INCLUDED, DESIGNED FOR CHILDREN.
- CENTOCO000 #AM4300ST0C001 BABY TOILET SEAT, HEAVY DUTY, FOR ROUND BOWL, OPEN FRONT, SOLID PLASTIC, LESS COVER, STAINLESS STEEL CHECK HINGES, METAL PLAT WASHERS STAINLESS STEEL POSTS AND NUTS, MCGUIRE #LFH16SLKN3 TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 13 MM (1/2") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.
- S1 CLASSROOM SINK - TWO HANDLES FAUCET - POINT OF USE THERMOSTATIC WATER MIXING VALVE**
- PEKOE 17 X 17 SINGLE BOWL, STAINLESS STEEL KITCHEN SINK 1858.8171700.075 FABRICATED SINGLE BOWL, STAINLESS STEEL KITCHEN SINK, 18 GAUGE STAINLESS STEEL, 8" DEEP BOWL, 10MM RADIUS CORNERS, UNDERMOUNT INSTALLATION, SIDE AND BOTTOM SOUND PADS WITH FULL SPRAY INSULATION, 21" (533MM) CABINET REQUIRED.
- INCLUDES 7302288-401.0750A BOTTOM GRID, 9028000.075 WASTE FITTINGS, 791676-100.0070A UNDERMOUNT SINK CLIPS, CUTOUT TEMPLATE.

CHICAGO FAUCETS 1100 SERIES #1100-G2AE35-317VAB TWO HANDLES FAUCET, CHROME PLATED FINISH, ECOST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 135 MM (5-1/4") PROJECTION RIGID/SWING GOOSENECK SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS.

LAWLER #570-86820, POINT OF USE THERMOSTATIC WATER MIXING VALVE, NICKEL PLATED BRONZE BODY, TEMPERATURE ADJUSTING SPINDLE, 10 MM (3/8") INLETS AND OUTLET FNPT CONNECTIONS, INTEGRAL CHECKS, OFFER TEMPERATURE RANGE BETWEEN 35 °C (95 °F) AND 46 °C (114.8 °F), SET VALVE TEMPERATURE AT 46 °C (114.8 °F), PROVIDE TEE, ADAPTORS AND FLEX, COPPER TUBING TO SUIT INSTALLATION, PROVIDE TEMPERED WATER TO HOT SIDE OF FAUCET, MCGUIRE #LFH16SLKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.

#### S1A CLASSROOM SINK - TWO HANDLES FAUCET

PEKOE 17 X 17 SINGLE BOWL, STAINLESS STEEL KITCHEN SINK 1858.8171700.075 FABRICATED SINGLE BOWL, STAINLESS STEEL KITCHEN SINK, 18 GAUGE STAINLESS STEEL, 8" DEEP BOWL, 10MM RADIUS CORNERS, UNDERMOUNT INSTALLATION, SIDE AND BOTTOM SOUND PADS WITH FULL SPRAY INSULATION, 21" (533MM) CABINET REQUIRED.

INCLUDES 7302288-401.0750A BOTTOM GRID, 9028000.075 WASTE FITTINGS, 791676-100.0070A UNDERMOUNT SINK CLIPS, CUTOUT TEMPLATE.

CHICAGO FAUCETS 1100 SERIES #1100-G2AE35-317VAB TWO HANDLES FAUCET, CHROME PLATED FINISH, ECOST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 133 MM (5-1/4") PROJECTION RIGID/SWING GOOSENECK SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS.

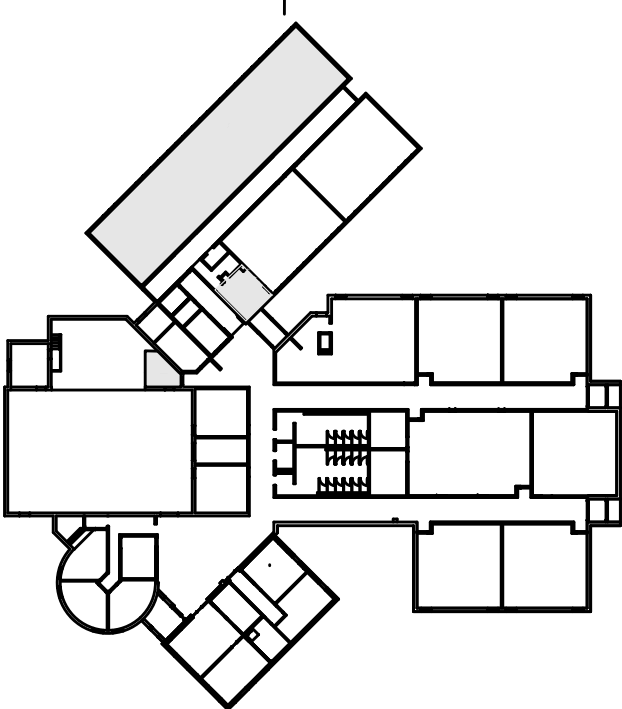
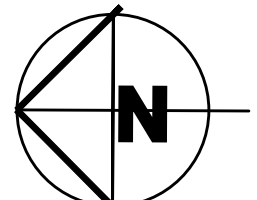
MCGUIRE #LFH16SLKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/2") SIZE, BOX FLANGE AND SEAMLESS TUBULAR WALL BEND.

#### S2 UNDER COUNTER SINK - TWO HANDLES FAUCET

FRANKE COMMERCIAL #UCD6408P-1 DOUBLE BOWL UNDER COUNTER SINK, 794 MM (31-1/4") WIDE X 460 MM (18-1/8") LONG X 203 MM (8") HIGH DEEP, COUNTER MOUNTED, NO LEDGE, GRADE 18-10 18 GA. (1.2 MM) TYPE 304 STAINLESS STEEL, SATIN FINISH RIM AND BOWLS, MOUNTING KIT PROVIDED, FULLY UNDERCOATED TO REDUCE CONDENSATION AND RESONANCE, 3-1/2" (89 MM) CRUMB CUP WASTE ASSEMBLY WITH 1-1/2" (38 MM) TAILPIECE.

CHICAGO FAUCETS 1100 SERIES #1100-E35VP317ABCP TWO HANDLES FAUCET, CHROME PLATED FINISH, ECOST CONSTRUCTION LEAD FREE (EQUAL OR LESS THAN 0.25%) CAST BRASS BODY, QUATURN COMPRESSION OPERATING CARTRIDGE, 5.7 LPM (1.5 GPM) VANDAL RESISTANT PRESSURE COMPENSATING SOFTFLO AERATOR OUTLET, 203 MM (8") PROJECTION L TYPE SWING SPOUT, 102 MM (4") METAL VANDAL PROOF WRISTBLADE SIXTEEN POINT TAPERED BROACH HANDLE WITH BLUE AND RED INDEX BUTTONS.

MCGUIRE #LFH16SLKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS, MCGUIRE #8912CB P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 38 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.



#### KEY MAP

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TORONTO, ON

MECHANICAL SPECIFICATIONS - 2

M5.1

AS NOTED  
MAY 2018

2018-252



LEGEND

AD	FIXTURE TYPE "A1"
\$	15A, 125V SINGLE POLE SWITCH, \$ <sub>1</sub> (TWO POLE), \$ <sub>2</sub> (3-WAY), \$ <sub>3</sub> (4-WAY), \$ <sub>4</sub> (KEY OPERATED), \$ <sub>5</sub> (0-10V DIMMER), \$ <sub>6</sub> (0-10V DIMMER, 3-WAY), \$ <sub>7</sub> (C/W PILOT LIGHT), \$ <sub>8</sub> (LOW VOLTAGE), \$ <sub>9</sub> (TIMER), \$ <sub>10</sub> (OCCUPANCY SENSOR SWITCH), \$ <sub>11</sub> (GANGED SWITCHES)
■	ELECTRICAL PANEL
↗	SINGLE VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 21mm CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE ABOVE COUNTER OR AT HEIGHT.
↗↗	TWO VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH DOUBLE GANG BACK BOX AND 21mm CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE ABOVE COUNTER OR AT HEIGHT.
▽	SINGLE VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH SINGLE GANG BACK BOX AND 21mm CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE
▽▽	TWO VOICE/DATA OUTLET MOUNTED AT TYPICAL HEIGHT WITH DOUBLE GANG BACK BOX AND 21mm CONDUIT C/W PULL STRING TO ACCESSIBLE CLG SPACE
▽WAP	WIRELESS ACCESS POINT C/W 21MM CONDUIT.
▼	TELEPHONE OUTLET C/W 21MM CONDUIT.
▼	TELEPHONE OUTLET MOUNTED AT 1500MM A.F.F C/W 21MM CONDUIT.
▽	TELEPHONE/DATA OUTLET C/W 21MM CONDUIT.
▽	DATA OUTLET C/W 21MM CONDUIT.
□	DOOR OPERATOR
■	FIRE ALARM BELL
■	FIRE ALARM PULL STATION C/W LEXAN COVER & WITH A BATTERY BUZZER
■	FLUSH WALL OR CEILING MOUNTED FIRE ALARM HORN & STROBE
EO	REMOTE TROUBLE BUZZER C/W VISUAL SIGNAL
●	AUTOMATIC RATE OF RISE HEAT DETECTOR AT 135° F
●	AUTOMATIC FIXED TEMPERATURE HEAT DETECTOR AT 157° F
●	PHOTOELECTRIC TYPE SMOKE DETECTOR UNLESS NOTED OTHERWISE
■	DUCT TYPE SMOKE DETECTOR WITH REMOTE ANNUNCIATOR
■	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR
■	FIRE ALARM CONTROL PANEL
RB	RELAY BASE
WR	WIRE GUARD
●	CARBON MONO-OXIDE DETECTOR
○ □	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
▨ ▨	LIGHTING FIXTURE ON NIGHT LIGHT CIRCUIT
▨ ▨	SURFACE OR RECESS MOUNTED LIGHTING FIXTURE. LETTER DENOTES TYPE
△	DIRECT HARDWIRE CONNECTION
U	JUNCTION BOX
▭	SURFACE MOUNTED STRIP LED LIGHTING FIXTURE. LETTER DENOTES TYPE
OS	OCCUPANCY SENSOR, WATT STOPPER DT-355
OS	WALL MOUNT PIR OCCUPANCY SENSOR, WATT STOPPER PW-100
□ ∞	EMERGENCY LIGHTING FIXTURE
EX	EXIT SIGN
EB	BATTERY
EO	EMERGENCY LIGHTING FIXTURE AND BATTERY
EO	EMERGENCY LIGHTING FIXTURE, BATTERY AND EXIT SIGN
■	TRANSFORMER
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
CB	CIRCUIT BREAKER
GFI	EQUIPMENT SO NOTED TO BE SUPPLIED WITH GROUND FAULT CIRCUIT INTERRUPT
H	AT HIGHER LOCATION
T	TRANSFORMER
ECUH	ELECTRICAL CABINET UNIT HEATER
W	WALL MOUNT – VERIFY HEIGHT
Ⓜ	MOTOR CONNECTION (SINGLE OR THREE PHASE)
Ⓜ	15A, 120V TAMPER-RESISTANT DUPLEX RECEPTACLE
Ⓜ	15A, 120V DUPLEX RECEPTACLE. Ⓜ <sub>H</sub> (HIGHER DUPLEX RECEPTACLE), Ⓜ <sub>L</sub> (LOWER DUPLEX RECEPTACLE) Ⓜ <sub>CLG</sub> (CEILING MOUNTED RECEPTACLE) EXACT LOCATION TO BE CONFIRMED BY OWNER.
Ⓜ	15A, 120V HALF SWITCHED DUPLEX RECEPTACLE.
Ⓜ	15A, 120V DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER.
ⓂT	20A, 120V T-SLOT DUPLEX RECEPTACLE.
ⓂT	20A, 120V T-SLOT DUPLEX RECEPTACLE FLOOR TYPE
Ⓜ	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE.
Ⓜ	15A, 120V DUPLEX GROUND FAULT INTERRUPTER RECEPTACLE MOUNTED ABOVE COUNTER OR AT HEIGHT.
Ⓜ	15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL & GROUND WIRE PER CIRCUIT.
Ⓜ	15A, 120V ISOLATED GROUND DUPLEX RECEPTACLE WITH SEPARATE NEUTRAL & GROUND WIRE PER CIRCUIT MOUNTED ABOVE COUNTER.
Ⓜ	QUAD RECEPTACLE 20AMPS, 120V.
Ⓜ	NEMA 14-50R RECEPTACLE
Ⓜ	NEMA 14-30R RECEPTACLE
EL	OUTLET FOR PUSH TO LOCK
EL	OUTLET FOR PUSH TO UNLOCK
EL	OUTLET FOR CLOCK

SL	STROBE LIGHT FOR EMERGENCY RESPONSE SYSTEM
PU	PATIENT UNIT FOR EMERGENCY RESPONSE SYSTEM
OL	OCCUPIED LIGHT FOR EMERGENCY RESPONSE SYSTEM
ERS	EMERGENCY RESPONSE SYSTEM
□	OUTLET FOR CLOSED CIRCUIT CAMERA
■	SECURITY MOTION SENSOR
Ⓜ	NEMA 6-20R RECEPTACLE
Ⓜ	PUBLIC ADDRESS SYSTEM. C/W 21MM CONDUIT
MS	AIPHONE MASTER STATION JM-4MED
MS	AIPHONE SUB MASTER STATION JM-4HD
MS	AIPHONE VIDEO DOOR STATION JK-DV
PH	PAGING HANDSET C/W 21MM CONDUIT
REX	REQUEST FOR EXIT
DC	DOOR CONTACT
ES	ELECTRIC STRIKE
Ⓜ	MOTOR CONNECTION (SINGLE OR THREE PHASE) WITH FUSIBLE DISCONNECT
□	FUSIBLE DISCONNECT

ELECTRICAL DRAWING LIST

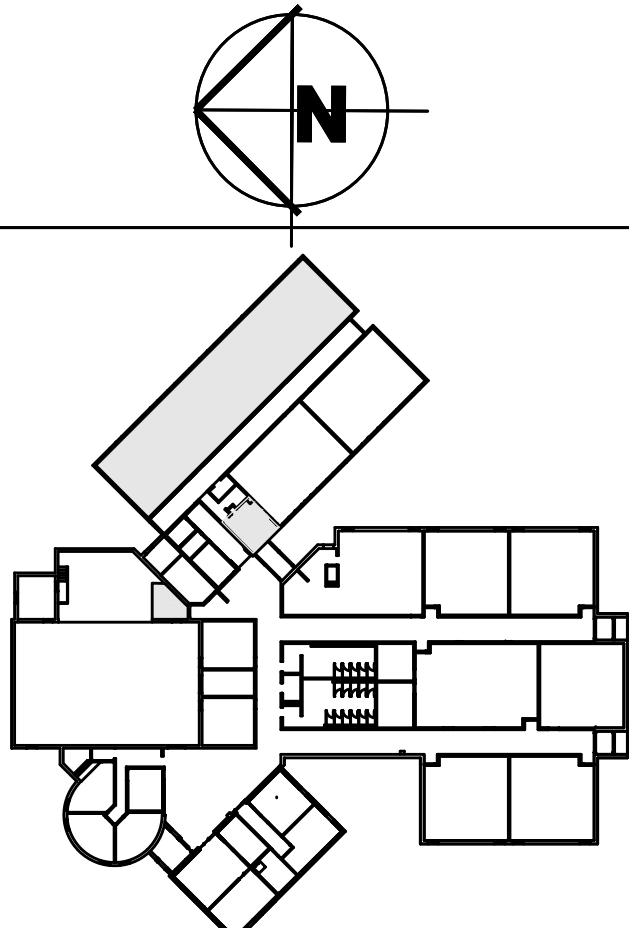
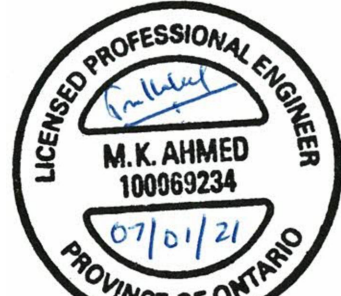
E0.0 ELECTRICAL LEAD SHEET  
E1.0 ELECTRICAL KEY PLAN  
E2.0 DEMOLITION POWER FLOOR PLAN  
E2.1 DEMOLITION FIRE ALARM & LIFE SAFETY FLOOR PLAN  
E3.0 PROPOSED POWER FLOOR PLAN  
E3.1 PROPOSED LIGHTING FLOOR PLAN  
E3.2 PROPOSED FIRE ALARM FLOOR PLAN  
E3.3 PROPOSED FIRE ALARM & LIFE SAFETY FLOOR PLAN  
E4.0 PANEL SCHEDULE & SINGLE LINE DIAGRAM  
E5.0 ELECTRICAL SCHEDULE

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MAKE/MODEL	VOLT	LAMP			MOUNT	REMARKS
				WATT	TYPE	COL.		
A	2'X2' RECESSED LED PANEL C/W STANDARD 0-10V DIMMING DRIVER & MOUNTING ACCESSORIES	LITELINE LEDPH-22-WH-40-20-2 ALTERNATE: PEERLESS, METALUMEN AND GE	120-277	20	LED	4000	CEILING RECESSED	CLASSROOM
B	2'X4' RECESSED LED PANEL C/W STANDARD 0-10V DIMMING DRIVER & MOUNTING ACCESSORIES	LITELINE LEDPH-24-WH-40-30-2 ALTERNATE: PEERLESS, METALUMEN AND GE	120-277	30	LED	4000	CEILING RECESSED	CLASSROOM
C	1'X4' SURFACE FIXTURE	PEERLESS ELECTRIC LXHL-14-32-40K-12-05-MV EQUALS: VISIONEERING, LITHONIA AND GE	120-277	29	LED	4000	SURFACE MOUNTED	STAGE LIGHT

GENERAL NOTES

- DO NOT SCALE DRAWINGS FOR INSTALLATION PURPOSES. ALL MEASUREMENTS ARE TO BE OBTAINED FROM ARCHITECTURAL PLANS, ELEVATIONS, AND FROM FIELD MEASUREMENTS.
- DIVISION 16 SHALL REFER TO ARCHITECTURAL & MECHANICAL DRAWINGS FOR ALL SCOPE OF WORK OF DIVISION 16 WHICH ARE RELATED TO OTHER TRADES
- ELECTRICAL AND MECHANICAL TRADES SHALL WORK IN CONJUNCTION WITH ONE ANOTHER, SO AS TO AVOID INTERFERENCES AND TO MAINTAIN MINIMUM CLEARANCES BETWEEN DUCTWORK, PIPING, CONDUIT AND LIGHTING FIXTURE.
- REVIEW ARCHITECTURAL DRAWINGS FOR FIRE RATED WALLS, AND CEILINGS AND PROVIDE NECESSARY FIRE STOPPING AS REQUIRED.
- WORK IN CONJUNCTION WITH REFLECTED CEILING PLANS WHEN LOCATING LIGHT FIXTURES.
- WORK IN CONJUNCTION WITH MECHANICAL DIFFUSER LAYOUT WHEN LOCATING SMOKE DETECTORS.
- PROVIDE AND INCLUDE FOR ALL NECESSARY ACCESSORIES AND FITTINGS FOR A FULL AND COMPLETE INSTALLATION OF LIGHTING FIXTURES, INCLUDING CEILING TRIMS AND FRAMES TO SUIT CEILING. REFER TO ARCHITECTURAL CEILING SCHEDULE FOR CEILING TYPES.
- LIGHTING BALLASTS AND DIMMERS SHALL BE COMPATIBLE WITH THE LIGHTING SOURCE AND LIGHTING FIXTURES BEING CONTROLLED AND INSTALLED.
- PROVIDE EACH ITEM MENTIONED OR INDICATED OF QUALITY AND SUBJECT TO QUALIFICATIONS NOTED; PERFORM ACCORDING TO CONDITIONS STATED EACH OPERATIONS STATED. EACH OPERATION PRESCRIBED ; AND PROVIDE THEREFORE ALL LABOR, MATERIAL, EQUIPMENT, INCIDENTALS AND SERVICES REQUIRED TO COMPLETE THE INSTALLATION.
- SCHEDULE AND COORDINATE ALL WORK WITH OTHER TRADES
- CONTRACTOR SHALL BALANCE CIRCUIT LOADS AS CLOSELY AS POSSIBLE.
- CONTRACTOR SHALL PERFORM VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS OF LIGHTING, POWER AND FEEDERS AND SHALL MAINTAIN VOLTAGE DROP WITHIN PERMISSIBLE LIMITS AS PER OESC REQUIREMENTS AND PROVIDE PROPER WIRE SIZES ACCORDINGLY PRIOR TO COMMENCING ROUGH-IN INSTALLATION. THE VOLTAGE DROP CALCULATIONS SHALL BE BASED ON MAXIMUM CIRCUIT IMPACTITY.
- ALL CONDUITS BACKBOXES AND ROUGH-IN FOR LOW VOLTAGE SYSTEMS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
- DIVISION 16 TO PROVIDE CONDUIT & WIRING FOR ALL ELECTRICAL & MECHANICAL EQUIPMENT FOR A COMPLETE OPERATIONAL SYSTEM.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL THE ROUGH INS REQUIRED FOR DIVISION 15 SCOPE OF WORK (UNLESS NOTED OTHERWISE) INCLUDING CONDUITS, BACK BOXES, JUNCTION BOXES, PULL WIRES, ETC. ELECTRICAL CONTRACTOR SHALL REFER TO DIVISION 15 DRAWINGS AND SPECS FOR MORE INFORMATION AND SHALL INCLUDE ALL COSTS ASSOCIATED RELATED TO THE ROUGH INS IN HIS TENDER PRICE.
- REFER TO DOOR HARDWARE SCHEDULE FOR ROUGH IN REQUIREMENT AND PROVIDE ALL NECESSARY FOR FULL OPERATIONAL SYSTEM TO COMPLY ACCORDINGLY.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SUPPORTING SYSTEM TO SUPPORT ALL LIGHT FIXTURES ONLY FROM THE JOIST OR STEEL BEAMS ( NOT FROM THE ROOF DECK).
- ALL ELECTRICAL EQUIPMENT THAT IS SUSPENDED SHALL BE SUPPORTED BY A SYSTEM THAT IS CERTIFIED BY THE MANUFACTURER TO CARRY THE LOADS OF THE EQUIPMENT. IF NO SYSTEM IS RECOMMENDED BY THE MANUFACTURER, THE CONTRACTOR SHALL PROVIDE A DESIGN STAMPED BY A P.ENG. THESE ITEMS SHALL INCLUDE BUT NOT LIMITED TO LIGHTING, TRANSFORMER, HEATERS, AND ALL SIMILAR ELECTRICAL EQUIPMENT. INSTALL IN ACCORDANCE WITH MANUFACTURER'S OR P.ENG DESIGN.
- PROVIDE 3/4" EMT CONDUIT FROM EACH VOICE/DATA OUTLET TO THE PLYWOOD BACKBOARD LOCATED IN THE ELEC/IT ROOM
- PROVIDE STAINLESS STEEL COVER PLATES FOR ALL WIRING DEVICES UNLESS NOTED OTHERWISE.



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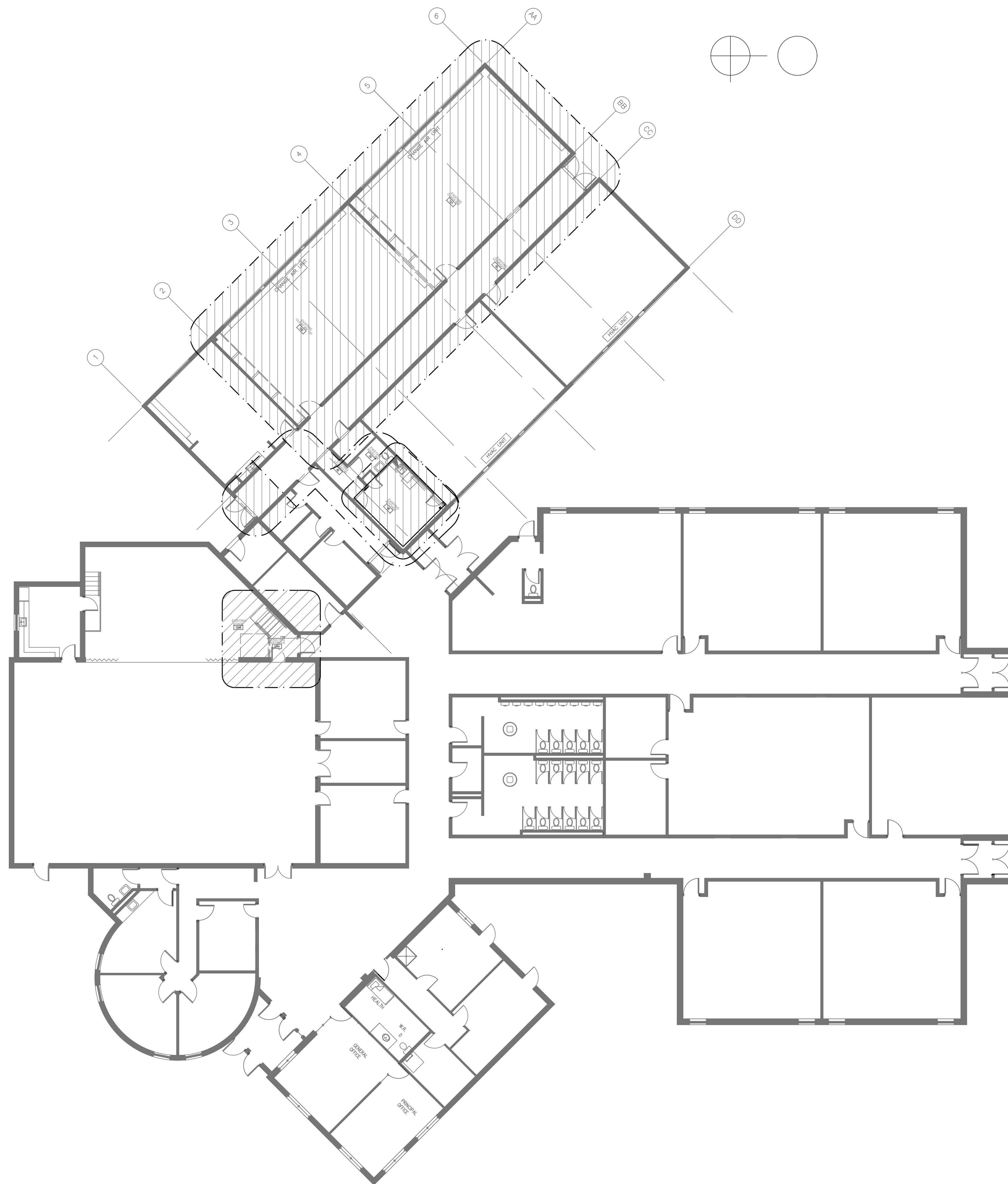
ELECTRICAL LEAD SHEET

E0.0

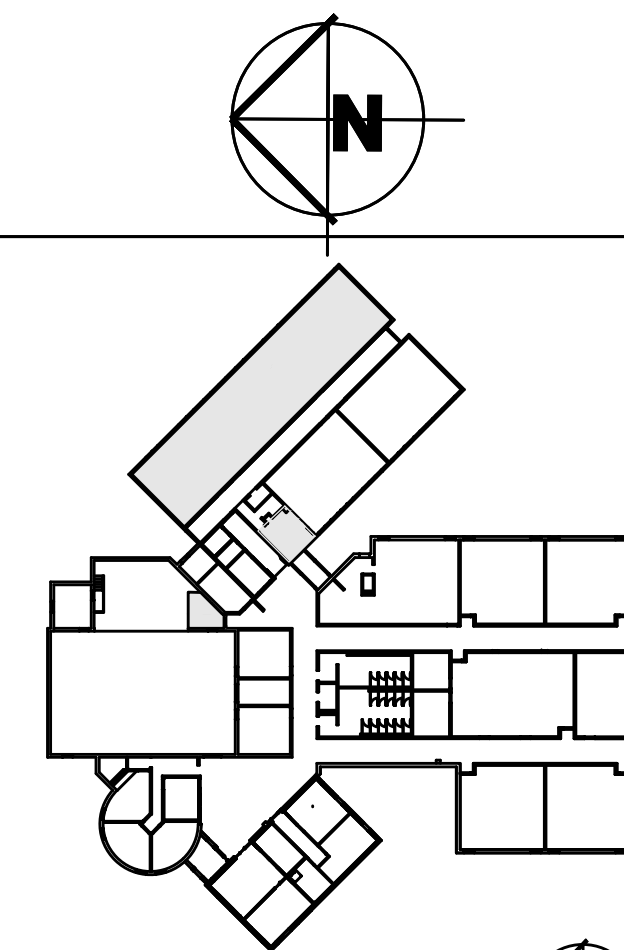
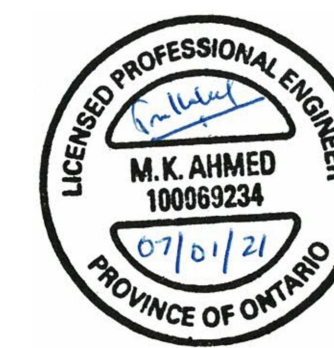
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1 KEY PLAN  
E1.0 SCALE 1:150 EXISTING LAYOUT



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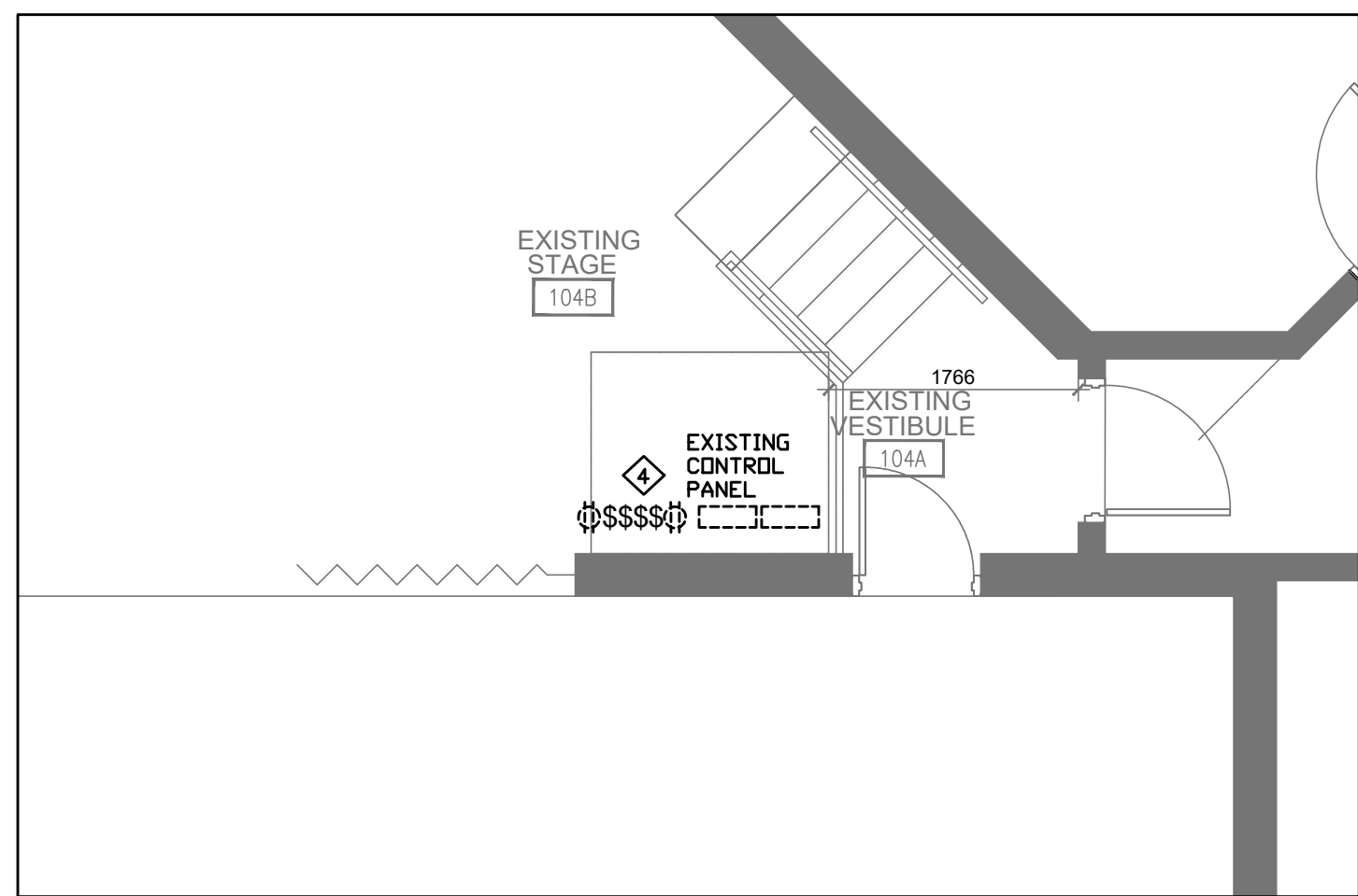
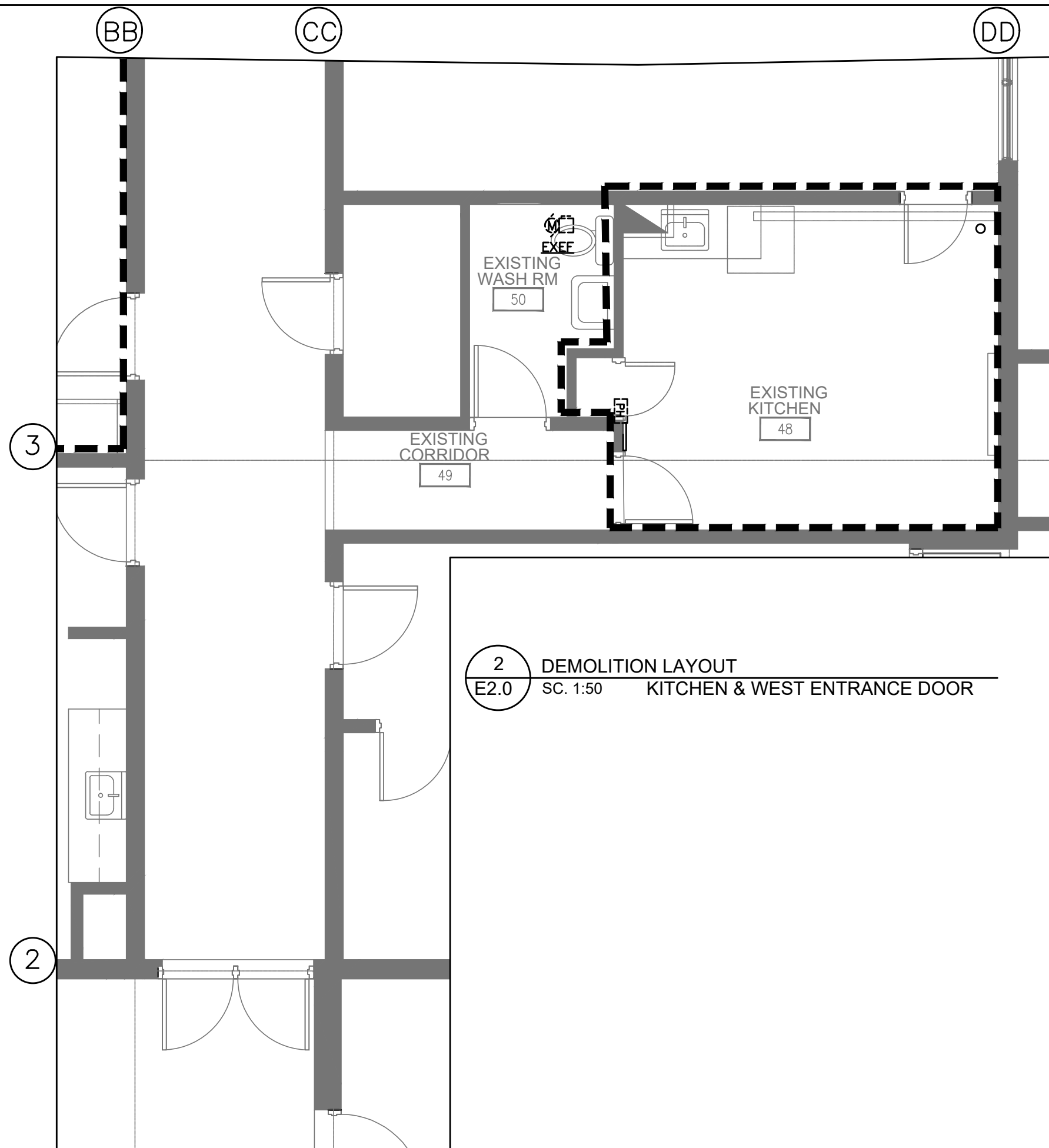
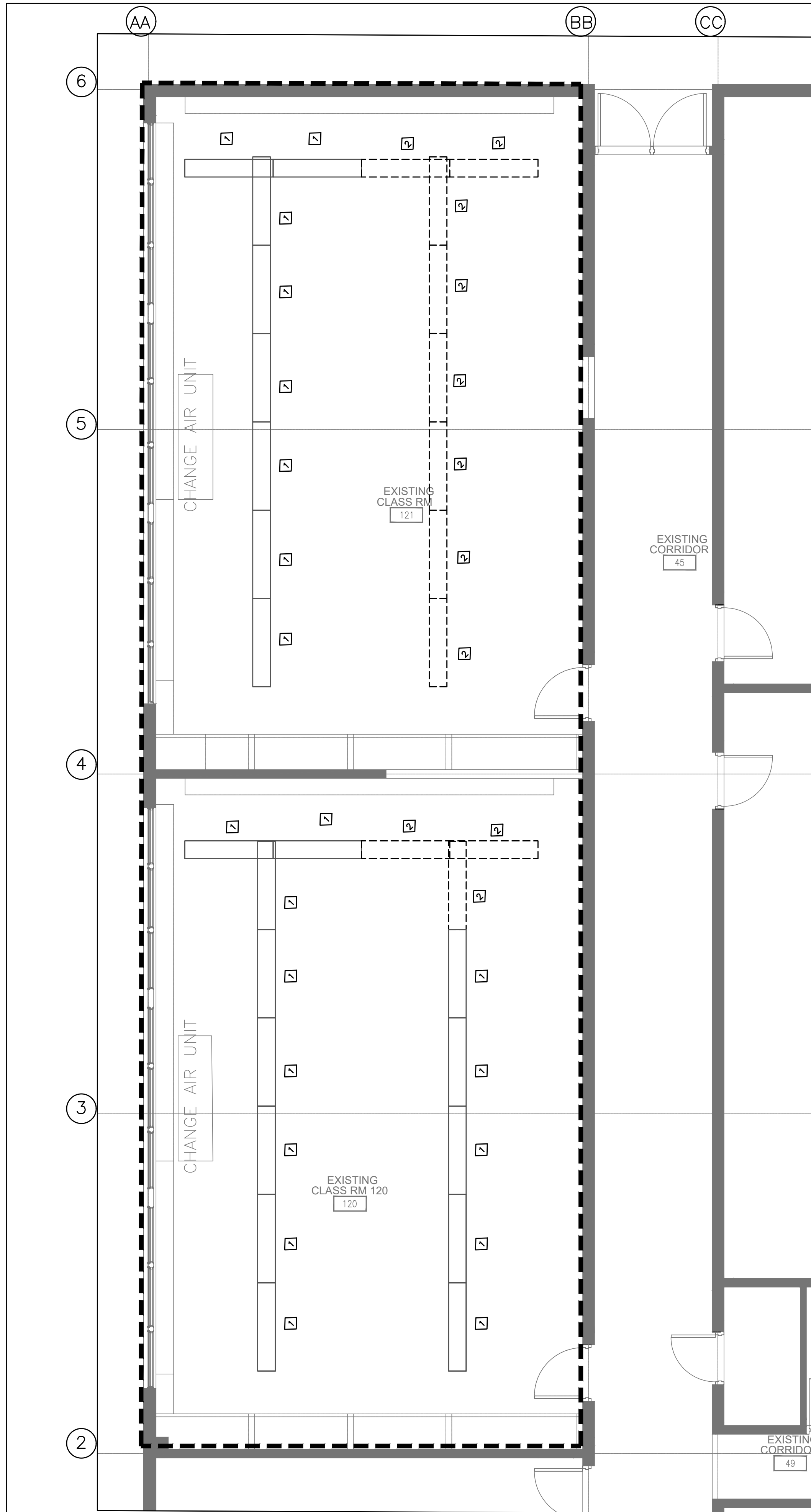
ELECTRICAL KEY PLAN

**E1.0**

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**POWER DEMOLITION NOTES:**

1. REMOVE ALL DUPLEX RECEPTACLES WITHIN THE OUTLINED AREA. REMOVE WIRING & CONDUIT BACK TO SOURCE.
2. REMOVE ALL EXHAUST FAN AND SWITCH IN OUTLINED AREA. REMOVE WIRING & CONDUIT BACK TO SOURCE.
3. CONTRACTOR TO REMOVE ALL THE EXISTING REDUNDANT CIRCUIT BREAKERS TO THE EQUIPMENTS BEING DEMOLISHED.
4. CONTRACTOR TO RELOCATE EXISTING LIGHTING SWITCH, CONTROL PANEL, OUTLETS TO THE NEW LOCATION ETC. AS SHOWN IN E3.0. ALLOW FOR EXTENDING WIRING FOR NECESSARY CONNECTION.

**LIGHTING DEMOLITION NOTES:**

1. EXISTING LIGHTING TO REMAIN.
2. CONTRACTOR TO CAREFULLY DISCONNECT AND REMOVE THE EXISTING LIGHTS AS SHOWN. CLEAN AND STORE THE LIGHTING FIXTURES DURING CONSTRUCTION. REINSTALL THE LIGHTING FIXTURE AS SHOWN IN E3.1.
3. REMOVE LIGHTING FIXTURES AS SHOWN.
4. DISCONNECT ALL WIRING TO DEMOLISHED LIGHTING FIXTURES AND REMOVE BACK TO SOURCE.
5. REWORK WIRING TO MAINTAIN POWER TO LIGHTING FIXTURE NOT EFFECTED BY THE RENOVATION.
6. DISCONNECT AND REMOVE ALL LIGHTING SWITCHES AS SHOWN. MAINTAIN BACK BOXES IF SWITCH LOCATION MATCHES WITH NEW LIGHTING SCHEME, OTHERWISE REMOVE AND REPAIR WALL.
7. REMOVE REDUNDANT CONDUIT BACK TO CONCEALED LOCATION.

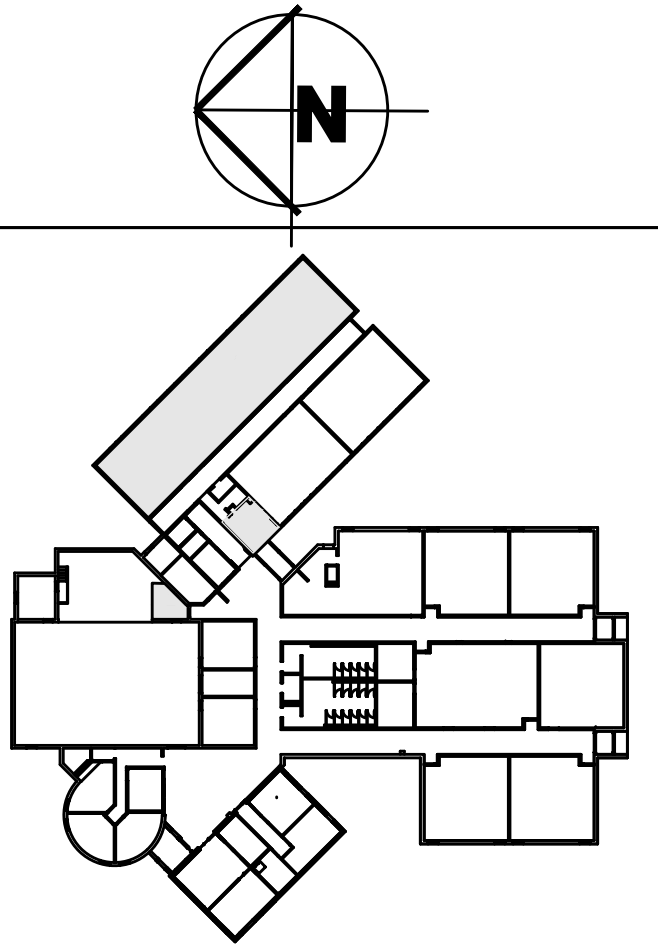
**FIRE ALARM NOTES:**

1. ALL EXISTING FIRE ALARM DEVICES TO BE REMOVED AND DISPOSED. REMOVE WIRING AND CONDUIT BACK TO SOURCE.
2. EXISTING FIRE ALARM SYSTEM TO BE MAINTAINED UNTIL NEW SYSTEM IS OPERATIONAL.

1 DEMOLITION LAYOUT  
E2.0 SC. 1:50 CLASS ROOMS 120 & 121

2 DEMOLITION LAYOUT  
E2.0 SC. 1:50 KITCHEN & WEST ENTRANCE DOOR

3 DEMOLITION LAYOUT  
E2.0 SC. 1:50 STAGE, WHEELCHAIR LIFT AND B.F. DOORS



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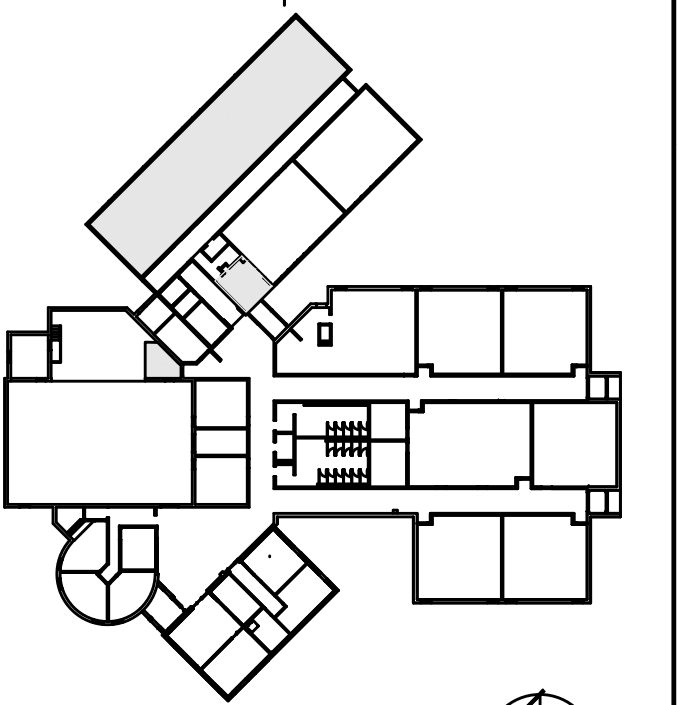
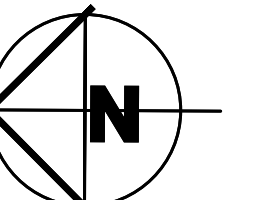
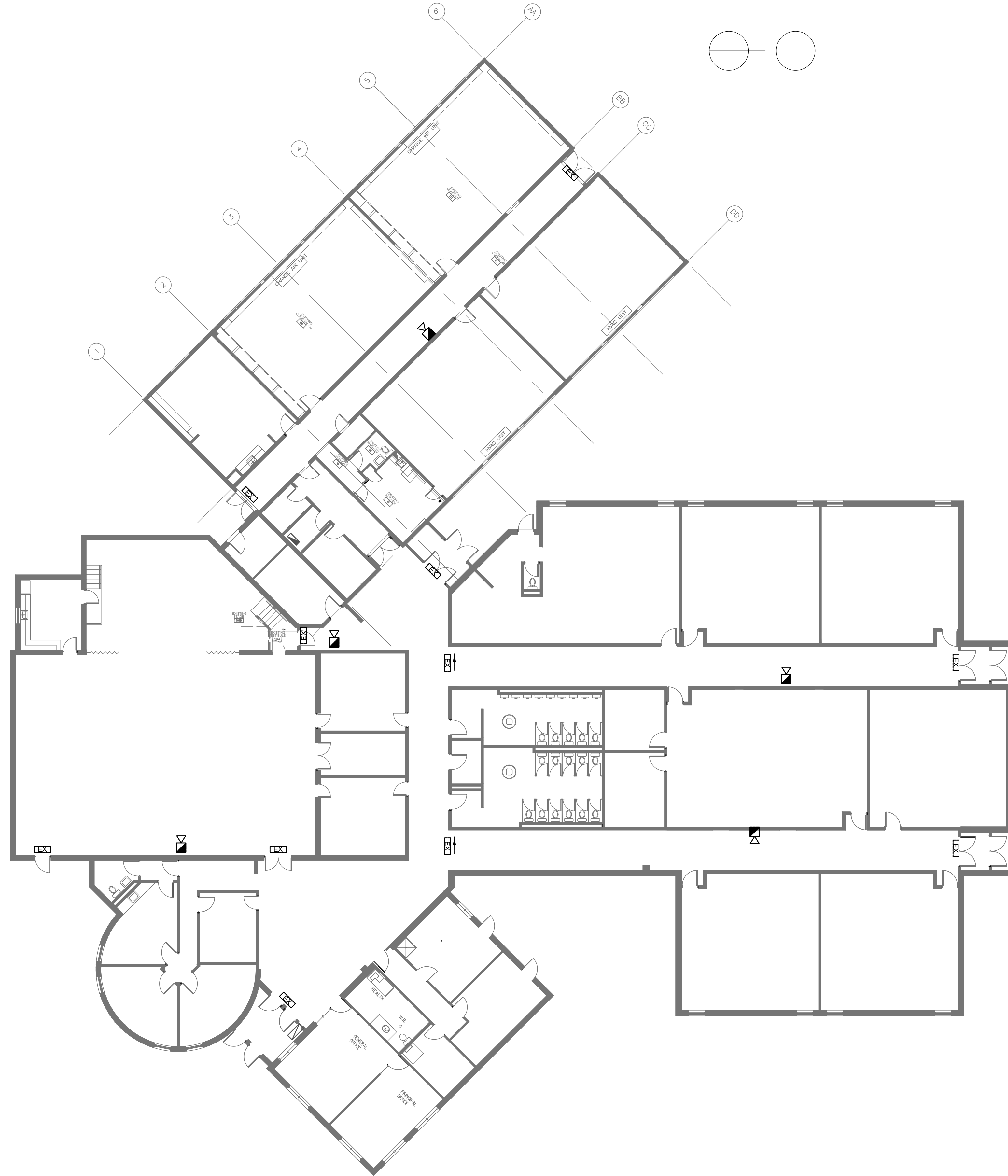
DEMOLITION ELECTRICAL  
FLOOR PLAN

**E2.0**

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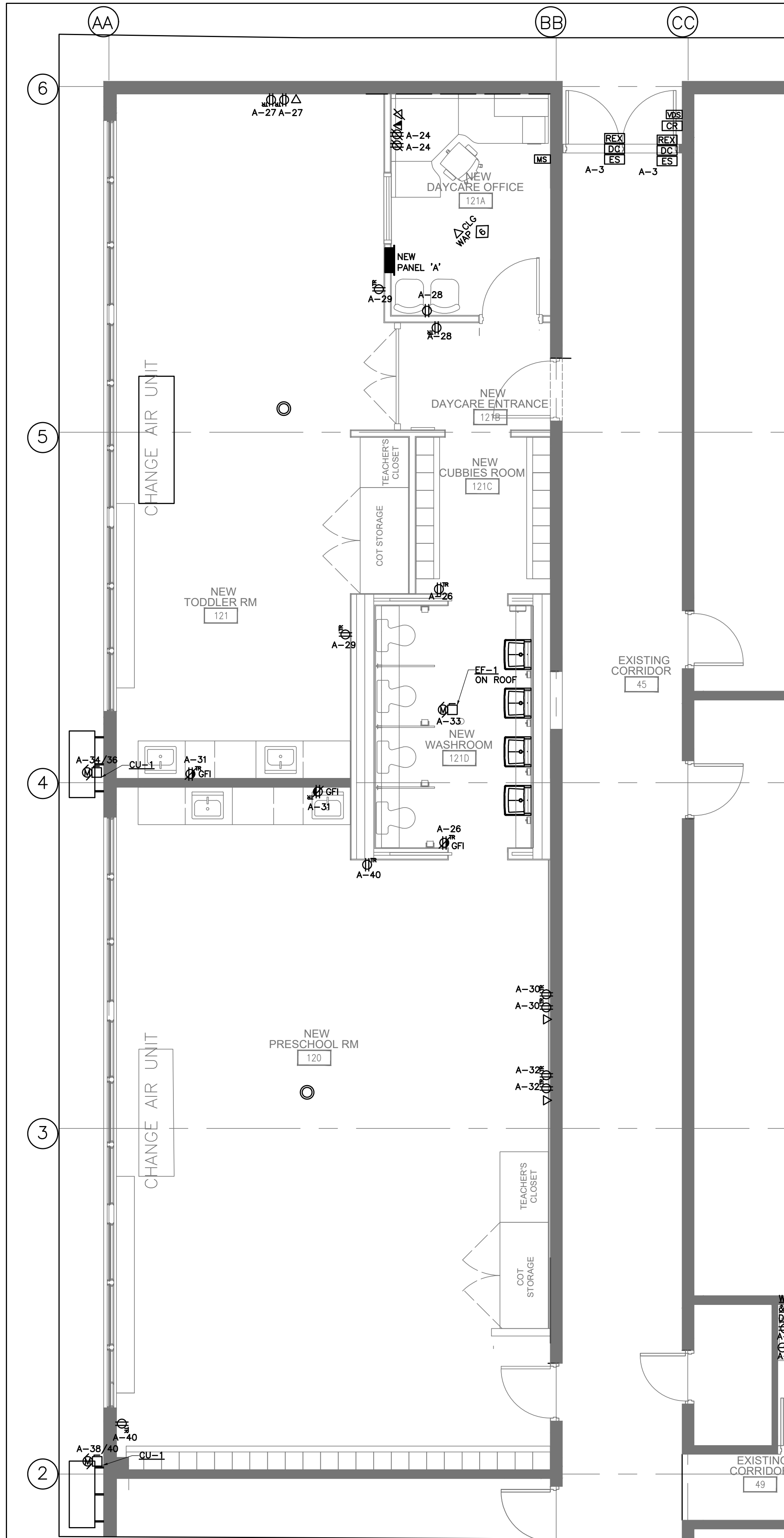
EXISTING FIRE ALARM & LIFE  
SAFETY FLOOR PLAN

E2.1

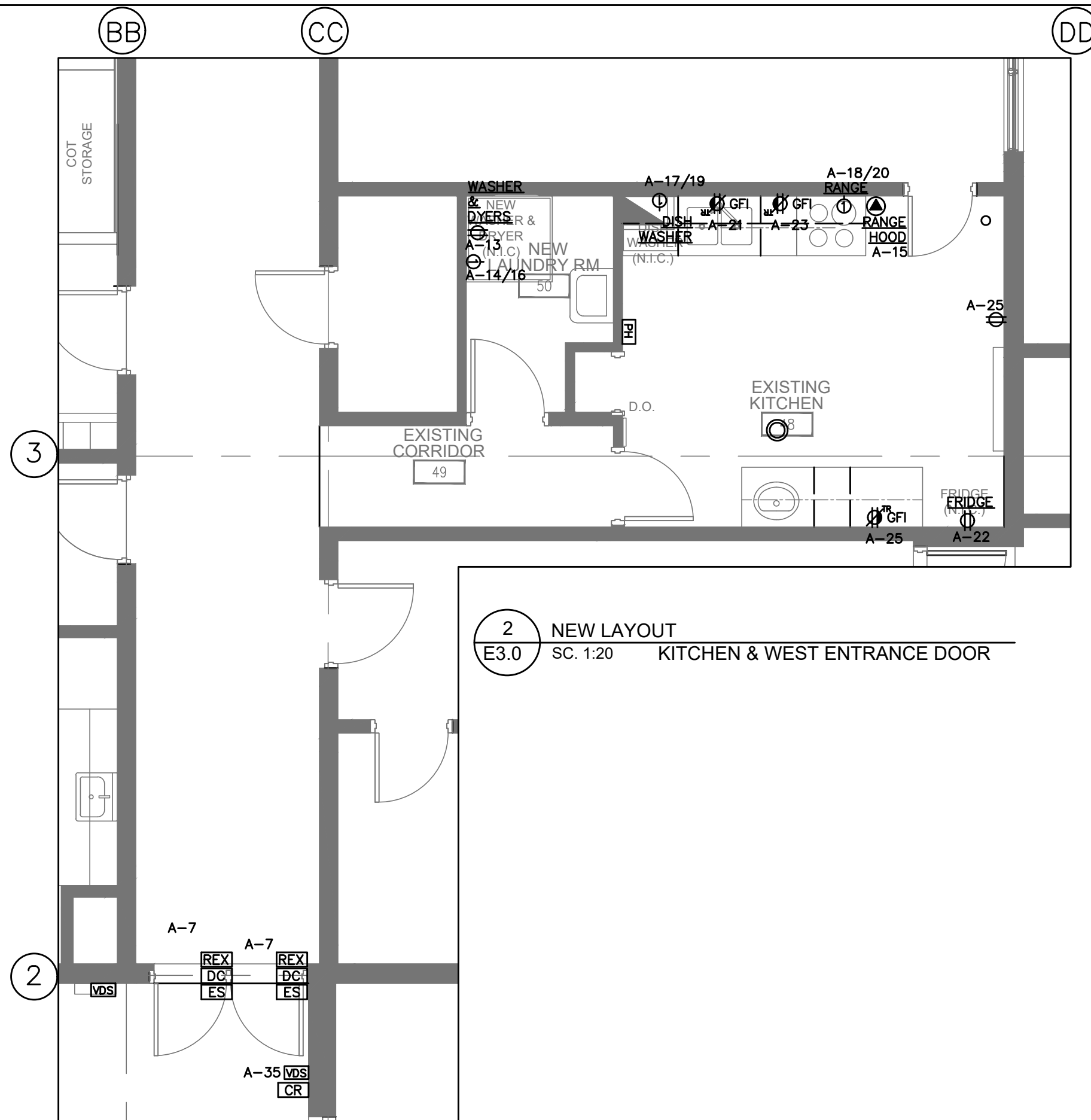
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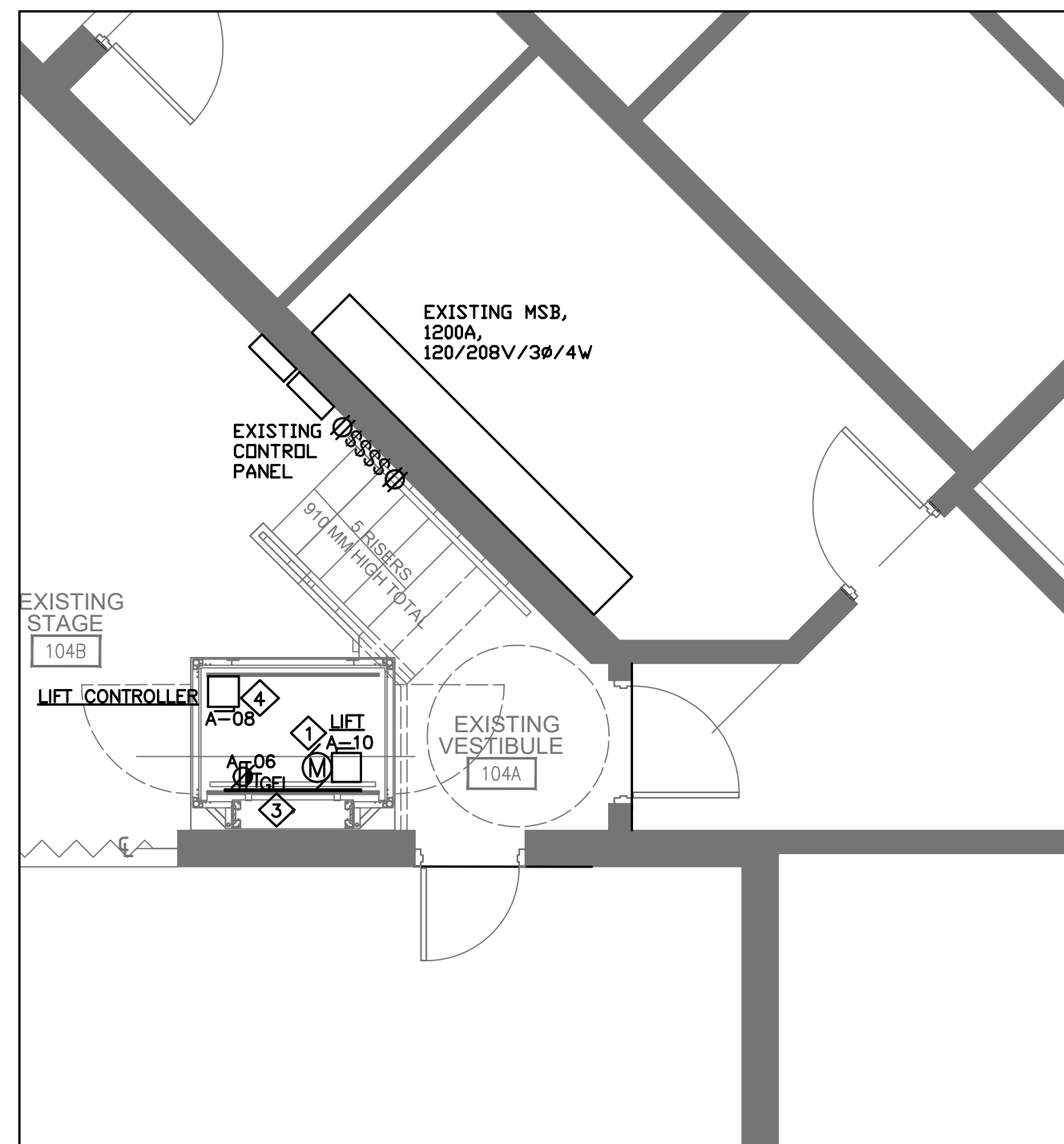




1 NEW LAYOUT  
E3.0 SC. 1:50 PRESCHOOL RM 120 & TODDLER RM 121

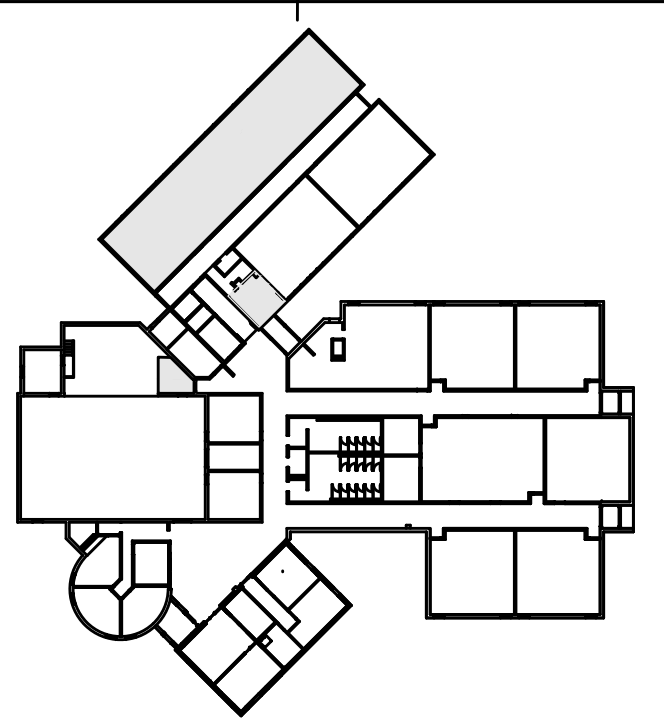
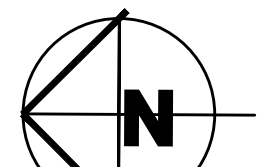
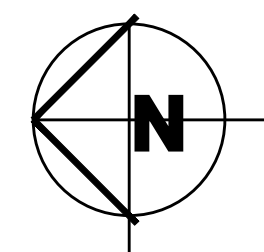


2 NEW LAYOUT  
E3.0 SC. 1:20 KITCHEN & WEST ENTRANCE DOOR



3 NEW LAYOUT  
E3.0 SC. 1:20 STAGE, WHEELCHAIR LIFT AND B.F. DOORS

- NOTES:
1. ALL RECEPTACLES TO BE TEMPER RESISTANT UNLESS NOTED OTHERWISE.
  2. FOR EXACT LOCATION & HEIGHT OF ALL POWER OUTLET & DATA OUTLETS REFER TO ARCHITECTURAL DRAWINGS.
  3. EXISTING OUTLETS, CONTROL PANEL, ETC.
  4. ALL COMMUNICATION CABLES TO BE CAT6.
  5. ALL PHONE/DATA OUTLETS TO BE TAMPER-RESISTANT.
  6. CONTRACTOR TO INSTALL WIRELESS ACCESS POINT ABOVE CEILING.
  7. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL TRANSFORMER 110V/240V FOR POWER REQUIREMENTS OF THE SECURITY SYSTEM.



KEY MAP

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ISSUED FOR 33% DESIGN MAY 22, 2018



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WWW.RCEI-INC.COM

EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON

MonAvenir  
CONSEIL SCOLAIRE CATHOLIQUE  
CONSEIL SCOLAIRE CATHOLIQUE MONAvenir  
110 DREWRY AVENUE  
TORONTO, ON

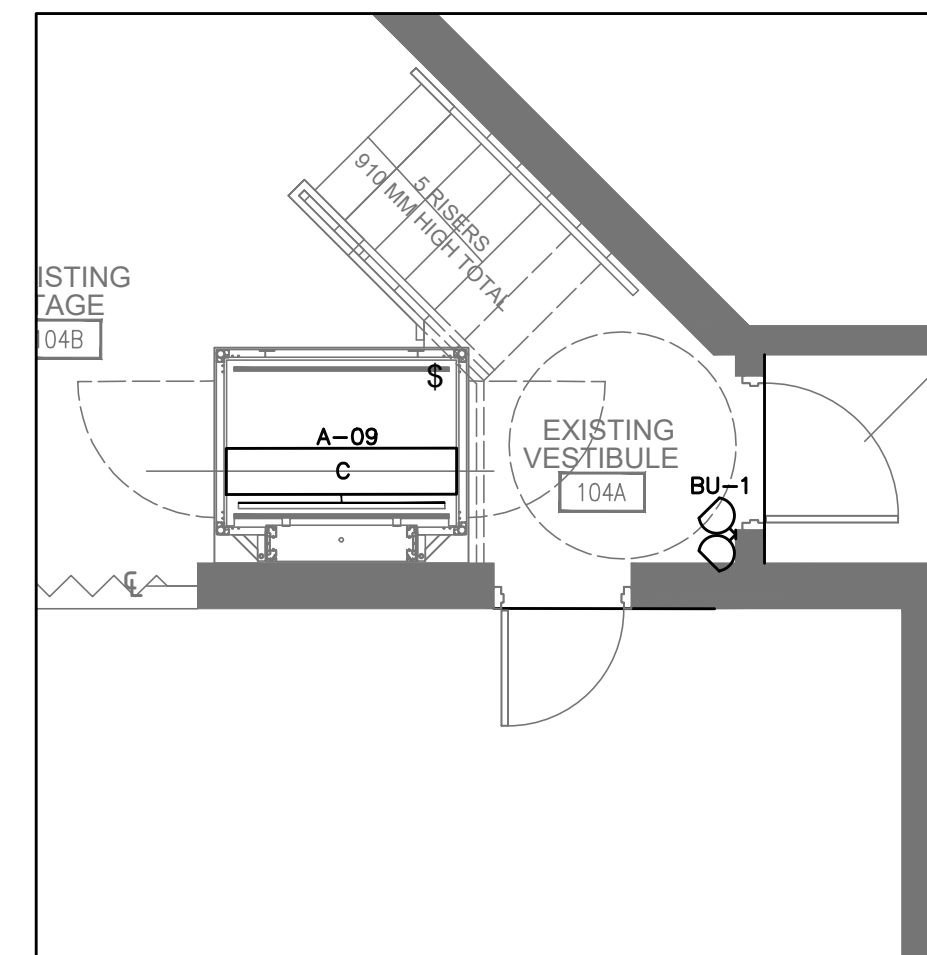
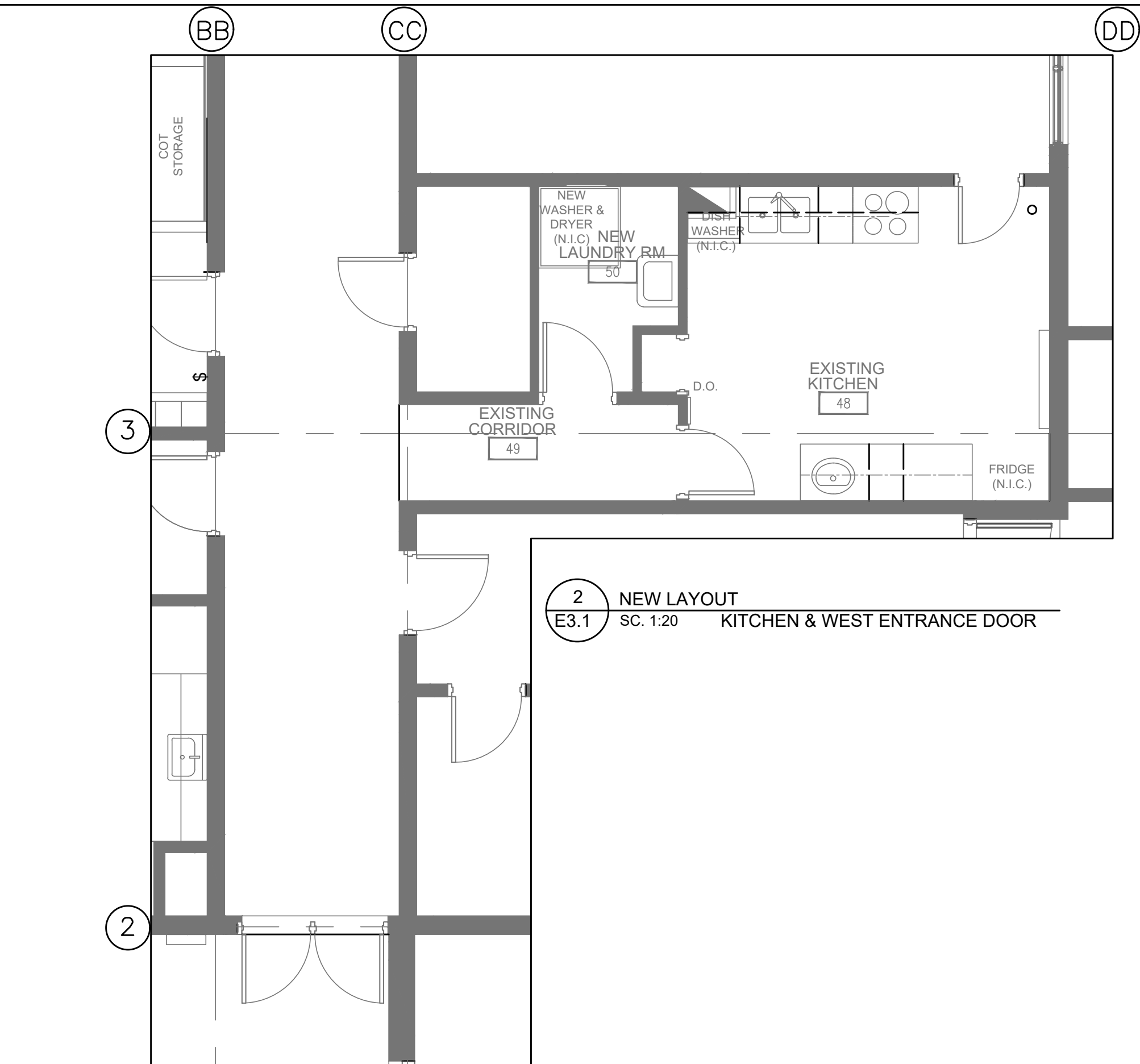
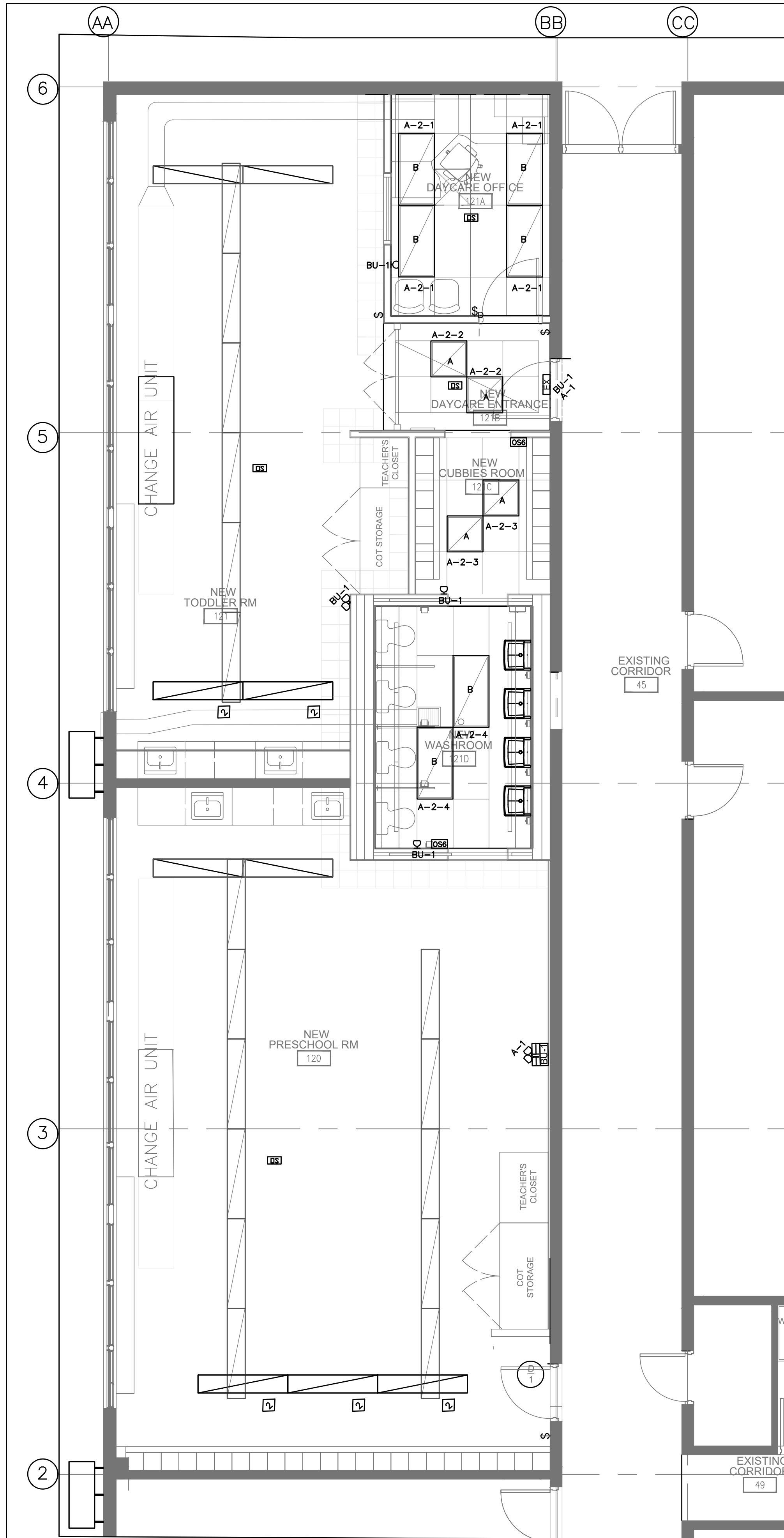
PROPOSED POWER FLOOR  
PLAN

E3.0

AS NOTED  
MAY 2018

2018-252





1 NEW LAYOUT  
E3.1 SC. 1:50 PRESCHOOL RM 120 & TODDLER RM 121

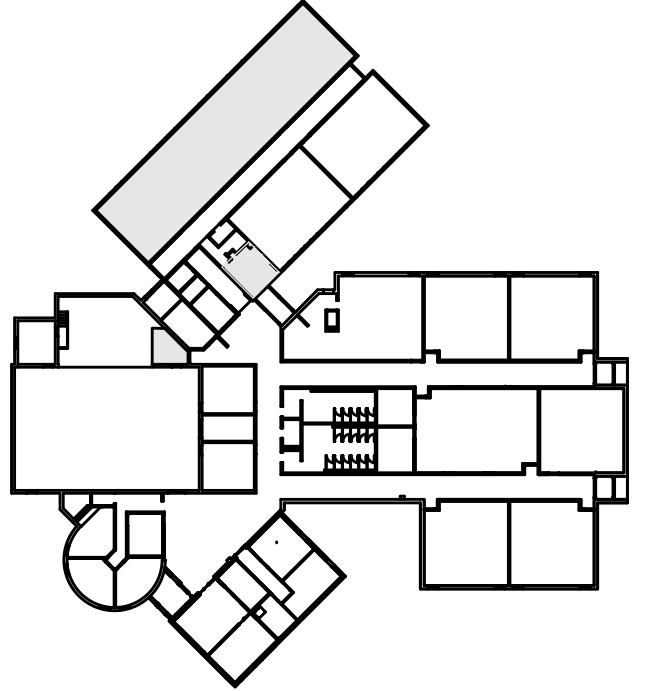
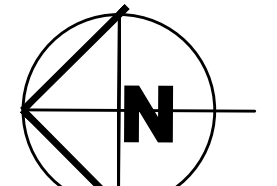
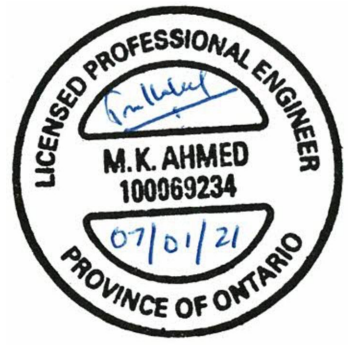
2 NEW LAYOUT  
E3.1 SC. 1:20 KITCHEN & WEST ENTRANCE DOOR

3 NEW LAYOUT  
E3.1 SC. 1:20 STAGE, WHEELCHAIR LIFT AND B.F. DOORS

BATTERY UNIT SCHEDULE									
LOCATION	UNIT UNMBER	EXIT SIGNS	DOUBLE HEADS	SINGLE HEADS	CONNECTED LOAD (WATT)	CAPACITY (WATT)			
						30 MIN	1H00	1H30	2H00
CORRIDOR	BU-1	1	2	3	46	144	64	60	48

REFER TO ELECTRICAL SPECIFICATION, MODEL # RG20S144

- NOTES:
- 1 CONTRACTOR TO INSTALL THE EXISTING LIGHTING FIXTURES AT THE LOCATION AS SHOWN.
  - 2 CONTRACTOR TO RE-INSTALL THE EXISTING LIGHTING FIXTURE AS SHOWN. CONNECT TO THE SAME CIRCUIT AS THE EXISTING LIGHTS TO REMAIN.



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EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAvenir  
110 DREWRY AVENUE  
TORONTO, ON

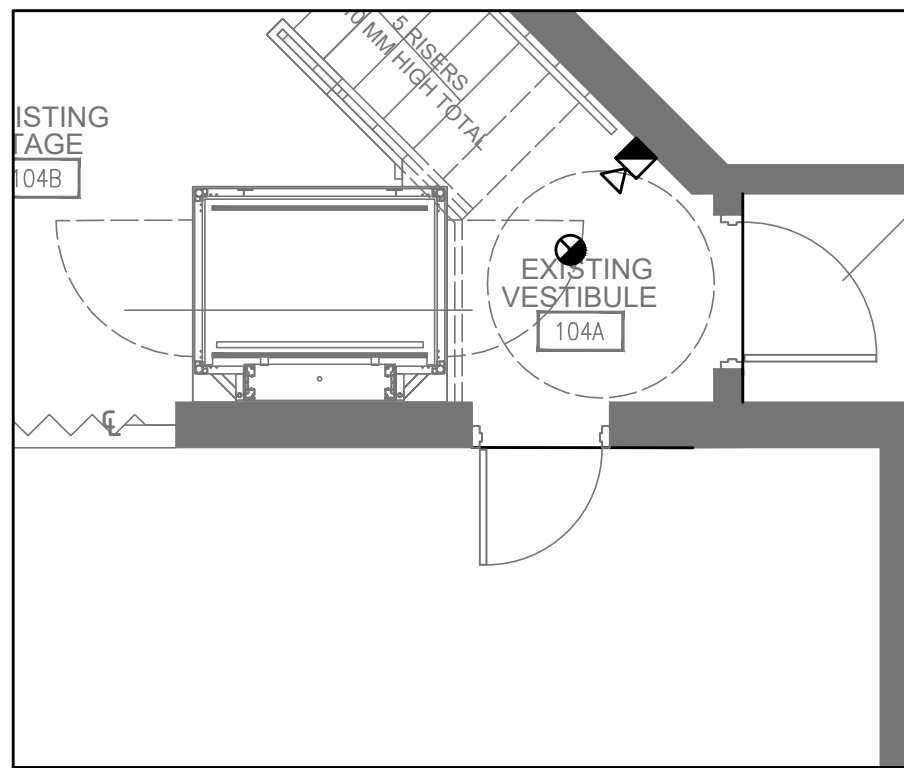
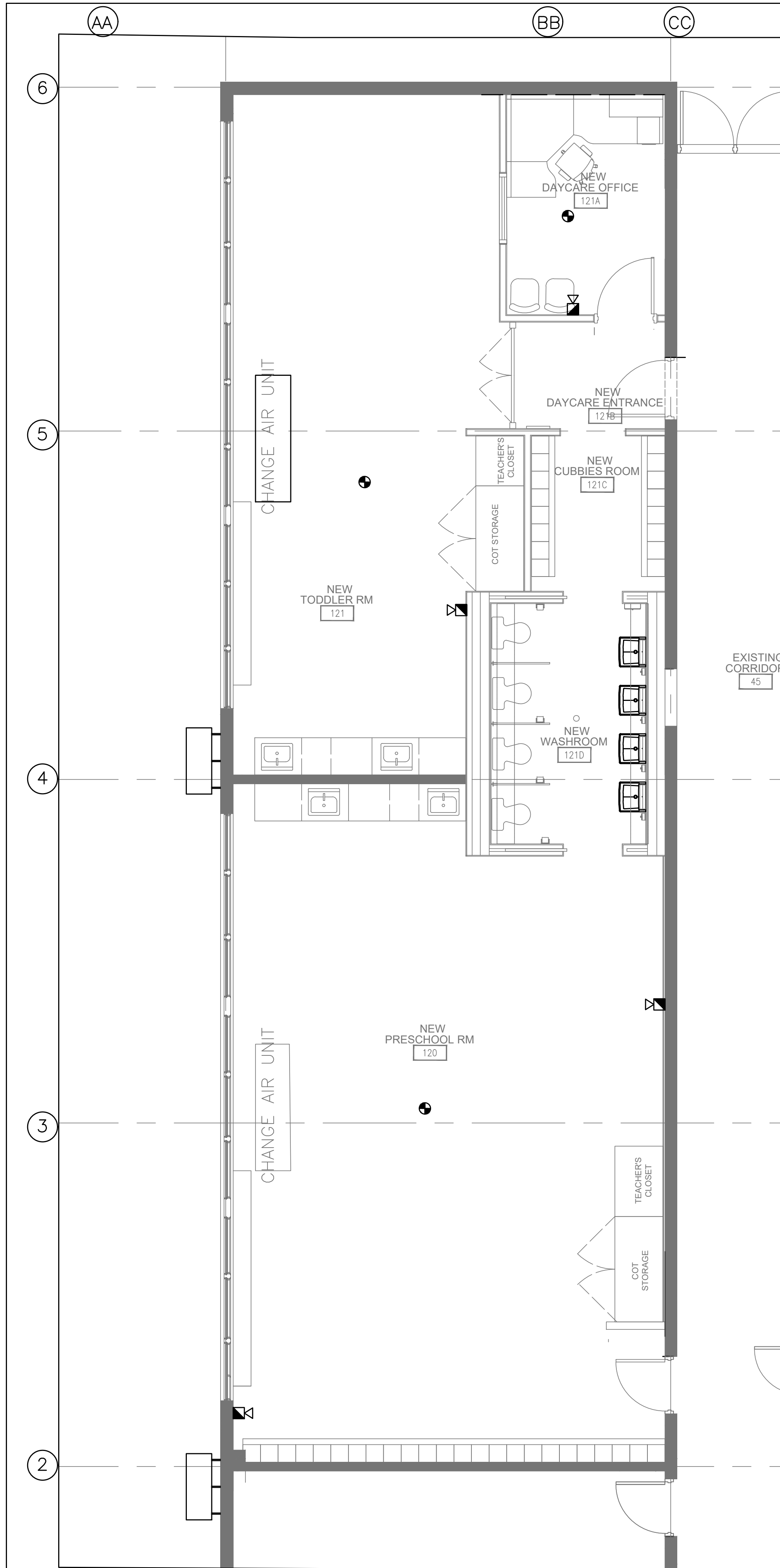
PROPOSED LIGHTING FLOOR  
PLAN

E3.1

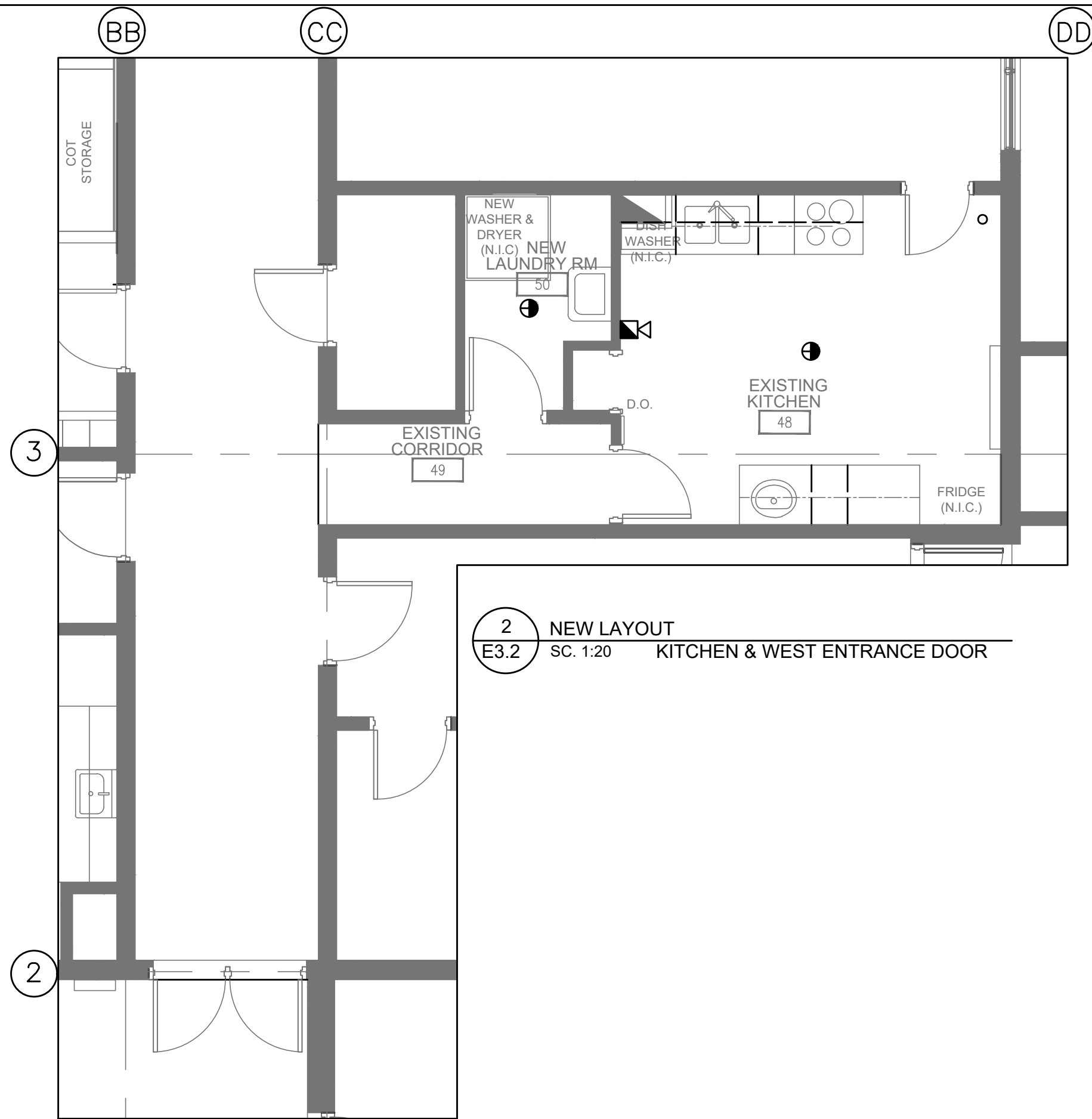
AS NOTED  
MAY 2018

2018-252





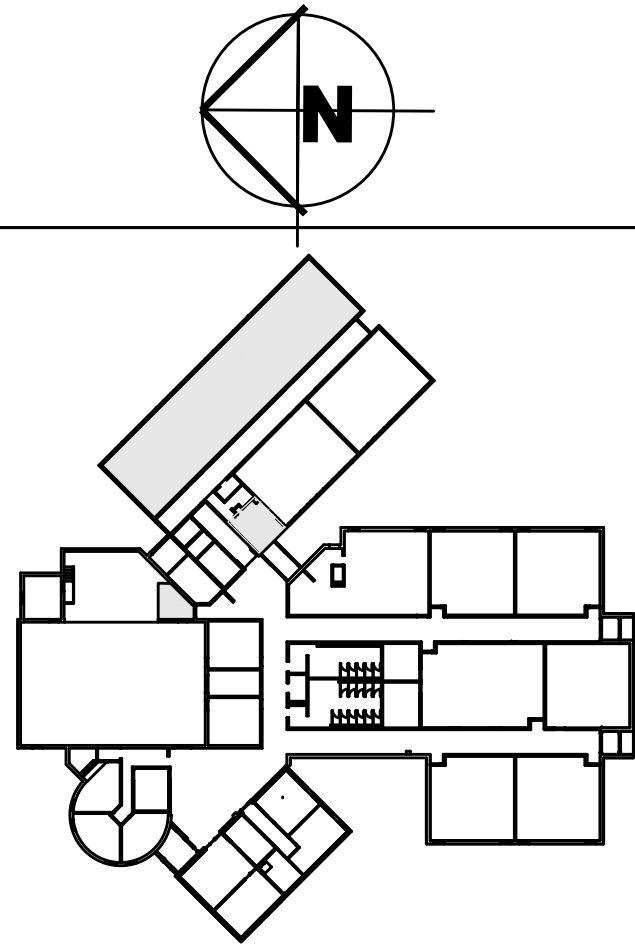
1 NEW LAYOUT  
E3.2 SC. 1:50 PRESCHOOL RM 120 & TODDLER RM 121



2 NEW LAYOUT  
E3.2 SC. 1:20 KITCHEN & WEST ENTRANCE DOOR

3 NEW LAYOUT  
E3.2 SC. 1:20 STAGE, WHEELCHAIR LIFT AND B.F. DOORS

- NOTES:
- CONTRACTOR TO CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM PANEL. EXISTING FIRE ALARM SYSTEM IS MIRCOM. ALLOW FOR TESTING AND VERIFICATION.
  - CONTRACTOR TO MAKE SURE THE SOUND OF NEW FIRE ALARM HORN SYNCHRONIZE WITH EXISTING FIRE ALARM HORNS.



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INTERIOR RENOVATIONS  
TINY, ON



CONSEIL SCOLAIRE CATHOLIQUE MONAVENIR  
110 DREWRY AVENUE  
TORONTO, ON

PROPOSED FIRE ALARM  
FLOOR PLAN

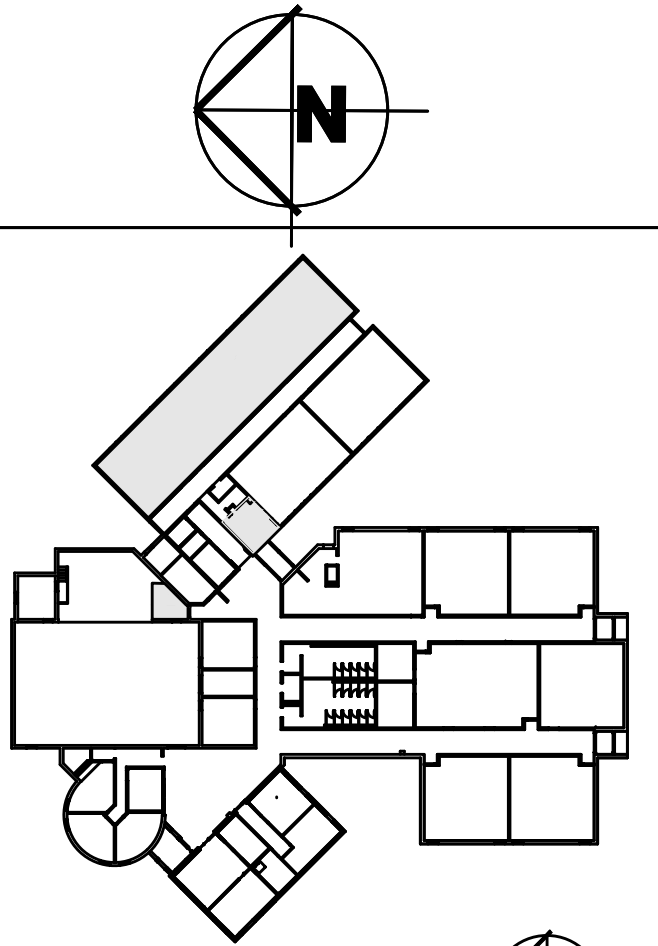
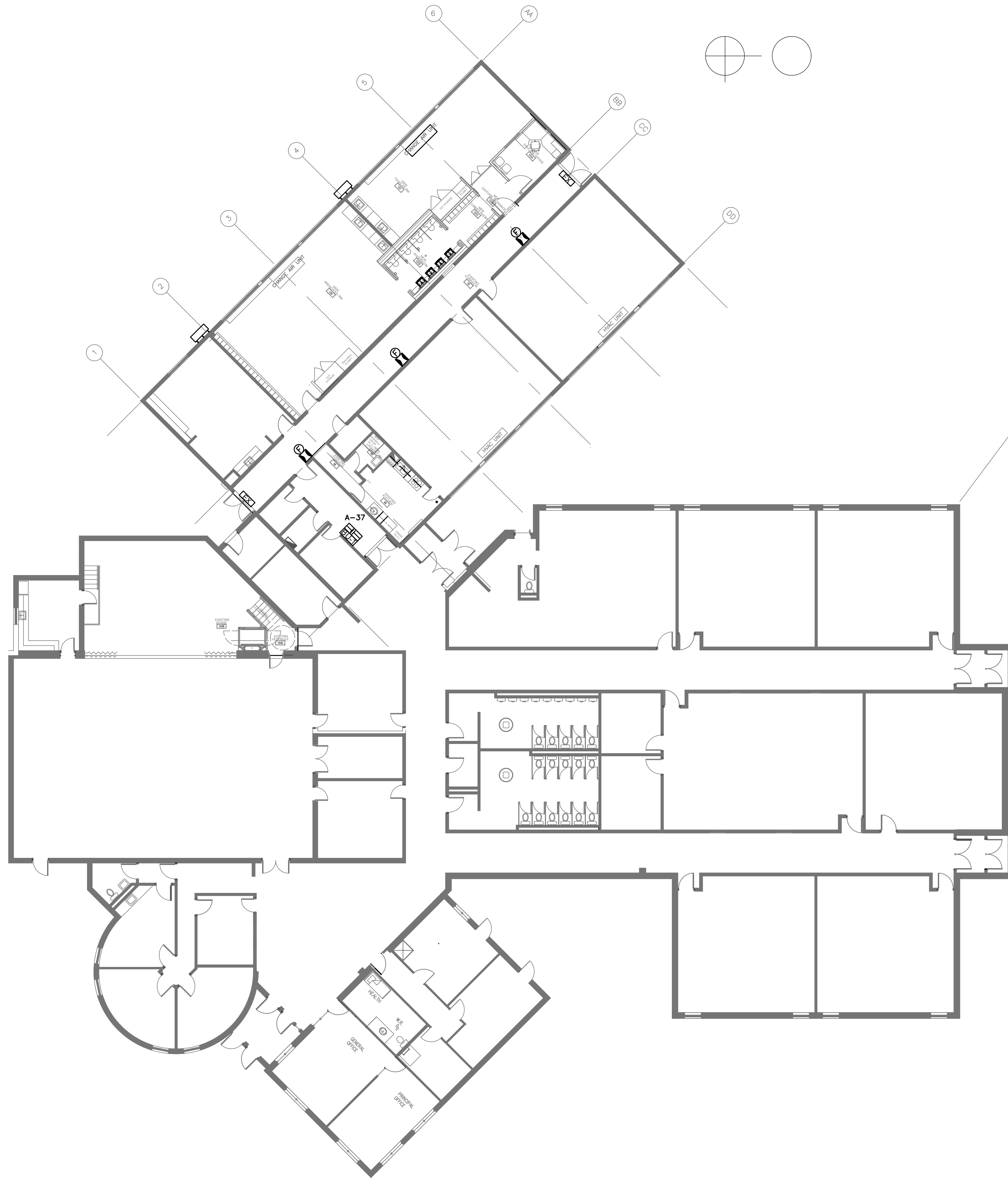
E3.2

AS NOTED  
MAY 2018

2018-252



- NOTES:
1. CONTRACTOR TO CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM PANEL. EXISTING FIRE ALARM SYSTEM IS MIRCOM. ALLOW FOR TESTING AND VERIFICATION.
  2. CONTRACTOR TO MAKE SURE THE SOUND OF NEW FIRE ALARM HORN SYNCHRONIZE WITH EXISTING FIRE ALARM HORNS.

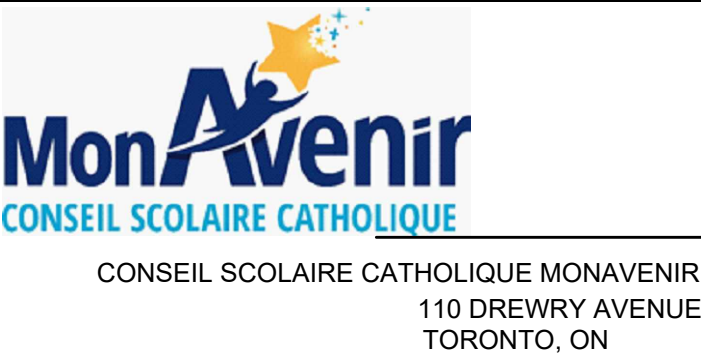


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EEC- STE. CROIX DAYCARE  
INTERIOR RENOVATIONS  
TINY, ON



PROPOSED SAFETY & FIRE  
ALARM FLOOR PLAN

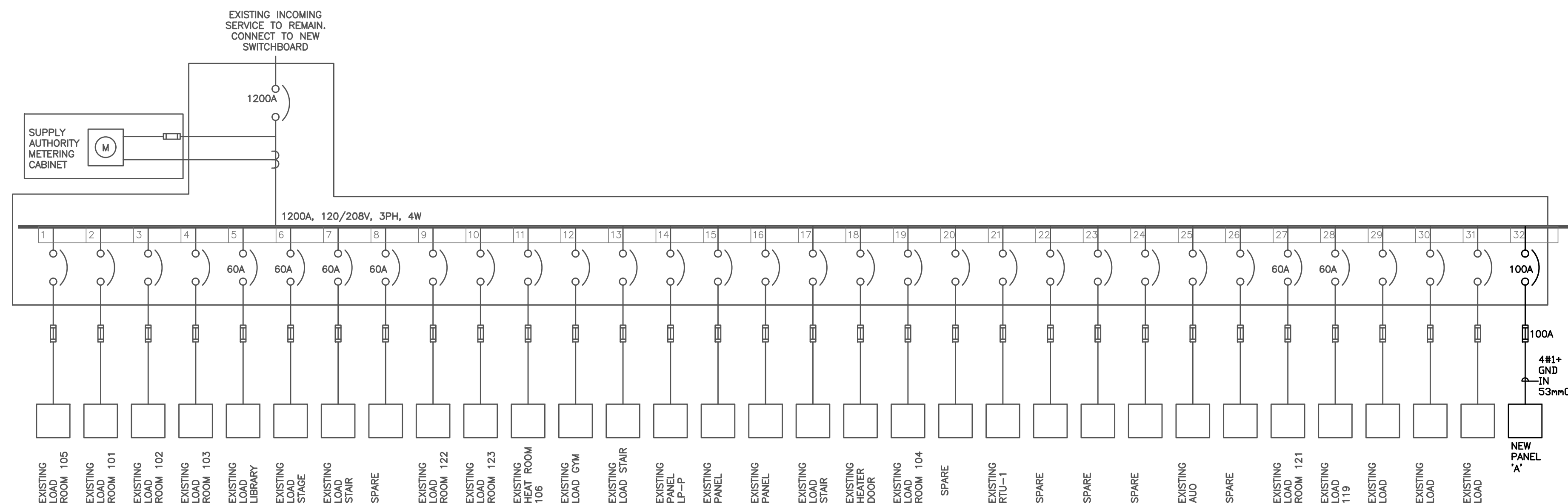
E3.3

AS NOTED  
MAY 2018

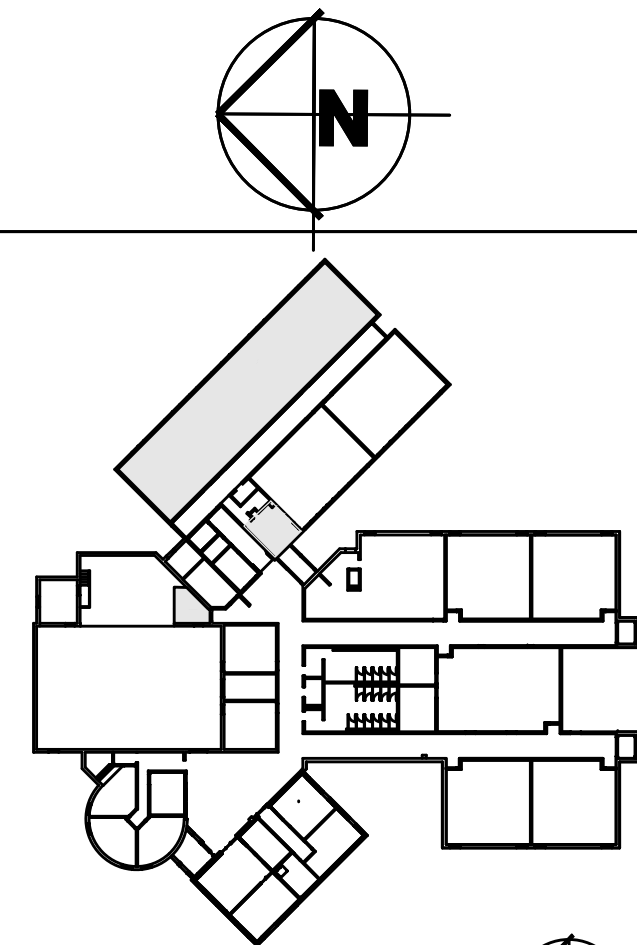
2018-252



ELECTRICAL PANEL:-					NEW PANELBOARD A SCHEDULE											
120/208V-3ø-60HZ, 100 AMP MAIN BREAKER																
DESCRIPTION	BRKR SIZE (A)	WATTS PER PHASE			CR NO	BUS	ABC	WATTS PER PHASE			BRKR SIZE (A)	DESCRIPTION				
		A	B	C				A	B	C						
EMERGENCY LIGHT/EXIT SIGN (**)	15				01		02			15	LIGHTING					
ES/CR	20				03		04				15					
	20				05		06				15	LIFT RECEPTACLE *				
ES/CR	20				07		08				15	STAGE LIFT CONTROLLER				
STAGE LIGHT	15				09		10				20	LIFT				
	20				11		12				20					
WASHER (*)	20				13		14				20					
RANGE HOOD	15				15		16				2P					
	40				17		18				40					
DISHWASHER	2P				19		20				2P	COOKING RANGE				
RECEPTACLE (*)	20				21		22				20	FRIDGE				
RECEPTACLE (*)	20				23		24				20	RECEPTACLE				
RECEPTACLE (*)	20				25		26				20	RECEPTACLE				
RECEPTACLE	20				27		28				20	RECEPTACLE				
RECEPTACLE	20				29		30				20	RECEPTACLE				
RECEPTACLE (*)	20				31		32				20	RECEPTACLE				
EF-1	15				33		34				30					
AIPHONE SYSTEM(VDS)	15				35		36				2P	CU-1				
EMERGENCY LIGHT/EXIT SIGN (**)	15				37		38				30					
					39		40				2P	CU-1				
					41		42									
					43		44									
					45		46									
					47		48									
					49		50									
					51		52									
					53		54									
					55		56									
					57		58									
					59	60										
					61	62										
					63	64										
					65	66										
(*) GROUND FAULT INTERRUPTER CIRCUIT BREAKER																
(**) C/W LOCK-OFF DEVICES																
(***) ARC-FAULT INTERRUPTER CIRCUIT BREAKER																



### SINGLE LINE DIAGRAM



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110 DREWRY AVENUE  
TORONTO, ON

ELECTRICAL SCHEDULES &amp; SLD

## E4.0

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AS NOTED

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MAY 2018

2018-252



## ELECTRICAL SPECIFICATION

### SCOPE OF WORK

- SUPPLY LABOUR, TOOLS, SERVICES, EQUIPMENT AND PROVIDE MATERIALS REQUIRED TO COMPLETE WORK IN ACCORDANCE WITH THIS SPECIFICATION AND DRAWINGS. COMPLY WITH LAWS, REGULATIONS AND CODES OF AUTHORITIES HAVING JURISDICTION. CONFORM TO REQUIREMENTS OF BIDDING DOCUMENTS AND DIVISION 1.

### EXAMINATION OF SITE AND DOCUMENTS

- PROVIDE TO SUBMITTING BID, CAREFULLY EXAMINE CONDITIONS AT SITE WHICH WILL OR MAY AFFECT WORK, DRAWINGS AND SPECIFICATION AND BECOME FAMILIAR WITH BUILDING CONSTRUCTION, FINISHES AND OTHER WORK ASSOCIATED WITH WORK IN ORDER THAT BID INCLUDES FOR EVERYTHING NECESSARY FOR COMPLETION OF WORK.

### PERMITS, CERTIFICATES AND FEES

- I PAY FOR AND OBTAIN PERMITS TO COMPLETE WORK. WHEN WORK IS COMPLETE, SUPPLY AND TURN OVER INSPECTION CERTIFICATES FROM GOVERNING AUTHORITIES TO CONSULTANT. PAY FEES AND CHARGES LEVIED BY MUNICIPALITY AND OTHER GOVERNING AUTHORITIES FOR PERMITS, INSPECTIONS AND CERTIFICATES. KEEP COPY OF SUCH PERMITS AND CERTIFICATES, ETC. ON JOB SITE.

### CO-ORDINATION AND CO-OPERATION

- ELECTRICAL CONTRACTOR TO CO-ORDINATE HIS WORK WITH WORK OF ALL TRADES TO ENSURE A PROPER AD COMPLETE INSTALLATION. NOTIFY ALL TRADES CONCERNED OF REQUIREMENTS, SLEEVES, INSERTS AND OTHER HARDWARE NECESSARY IN THEIR WORK FOR INSTALLATION OF HIS WORK AND WHERE HIS WORK IS TO BE INTEGRATED WITH WORK OF OTHER TRADES OR IS TO BE INSTALLED IN CLOSE PROXIMITY WITH WORK OF OTHER TRADES. CAREFULLY CO-ORDINATE WORK PRIOR TO AND DURING INSTALLATION.
- EXACT LOCATIONS AND ROUTING OF SERVICES MUST BE PROPERLY PLANNED CO-ORDINATED AND ESTABLISHED WITH ALL AFFECTED TRADES PRIOR TO INSTALLATION SUCH THAT THEY WILL CLEAR EACH OTHER AS WELL AS ANY OBSTRUCTIONS. GENERALLY, PIPING REQUIRING UNIFORM FITTCH SHALL BE GIVEN RIGHT OF WAY WITH OTHER SERVICE LOCATED AND ARRANGED TO SUIT.

### NOISE CONTROL

- WORK WHICH MAY CAUSE NOISE DISTURBANCES MUST BE SCHEDULED AT TIMES APPROVED BY CONSULTANT. CO-ORDINATE WORK WITH TRADES TO MINIMIZE NOISE DISTURBANCES.

### CLEAN UP

- DURING CONSTRUCTION, KEEP SITE REASONABLY CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM WORK ON DAILY BASIS. AFTER COMPLETION OF WORK, REMOVE RUBBISH AND DEBRIS, ARRANGE AND PAY FOR REPAIR OF DAMAGES CAUSED AND LEAVE PREMISES AND WORK IN GOOD ORDER.

### PROTECTION OF EQUIPMENT

- PROPERLY PROTECT AND STORE ALL EQUIPMENT AND MATERIAL ON SITE FROM DAMAGE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFE STORAGE OF ALL EQUIPMENT AND GOODS TO BE RELOCATED AND SHALL REPAIR OR REPLACE DAMAGED EQUIPMENT AND GOODS AT DISCRETION OF OWNER..

### INSPECTION OF WORK

- CONSULTANT SHALL AT ALL TIMES HAVE ACCESS TO WORK AND SHALL BE NOTIFIED AT AGREED UPON TIMES OF STAGES OF WORK.
- CONTRACTOR SHALL GIVE CONSULTANT TIMELY NOTICE OF DATE (WITHIN 48 HOURS AFTER PERFORMANCE) WHEN FOLLOW STAGES OF WORK HAVE BEEN PERFORMED:  
WHEN 33% OF WORK HAS BEEN COMPLETED:  
WHEN 66% OF WORK HAS BEEN COMPLETED:  
WHEN 95% OF WORK HAS BEEN COMPLETED:  
UPON SUBSTANTIAL PERFORMANCE OF WORK.
- WHERE STANDARDS OF WORK ARE SPECIFIED OR IMPLIED AND WORK DOES NOT COMPLY WITH PERFORMANCE SPECIFIED OR IMPLIED, SUCH DEFICIENCY SHALL BE CORRECTED AS DIRECTED BY CONSULTANT. ANY SUBSEQUENT TESTING TO VERIFY PERFORMANCE SHALL BE DOWN AT CONTRACTORS' EXPENSE, AND CHARGE FOR OWNER'S STAFF CONSULTANT OR OTHER PERSONNEL RELATED TO SUCH RE-TESTING SHALL ALSO BE AT EXPENSE OF CONTRACTOR.

### PRODUCTS

- PRODUCTS LISTED AND/OR SPECIFIED ON CONTRACT DOCUMENTS ARE SELECTED TO ESTABLISH DESIGN STANDARDS. IN MOST CASES, ACCEPTABLE MANUFACTURERS ARE LISTED. BASE YOUR BID PRICE ON BASE SPECIFIED PRODUCTS OR PRODUCTS SUPERIOR TO THOSE SPECIFIED. MANUFACTURERS, ENSURE PRODUCTS SUPPLIED FROM MANUFACTURERS OTHER THAN BASE SPECIFIED MANUFACTURERS ARE EQUIVALENT TO SPECIFIED PRODUCTS. PROPOSED SUBSTITUTIONS AND SUPPLIERS OF PRODUCTS MAY BE PROPOSED TO CONSULTANT FOR ACCEPTANCE, LISTING IN EACH CASE CORRESPONDING CREDIT. CONSULTANT HAS SOLE DISCRETION IN ACCEPTING ANY PROPOSED SUBSTITUTION. INCLUDE IN BID PRICE ANY ADDITIONAL PRODUCTS SUPPLY BY MANUFACTURER OTHER THAN BASE SPECIFIED MANUFACTURER.

### WARRANTY

- WARRANT WORK TO BE IN STRICT ACCORDANCE WITH CONTRACT DOCUMENTS AND FREE FROM DEFECTS FOR 1 YEAR PERIOD FROM DATE OF WRITTEN ACCEPTANCE BY CONSULTANT. REFER AND/OR REPLACE ANY SUCH DEFECTS WHICH APPEAR IN WORK WITHIN WARRANTY PERIOD, ORDINARY WEAR AND EAR AND WILFUL DAMAGE BY, OR CARELESSNESS OF OWNER'S STAFF OR AGENTS EXCEPTED. WITHOUT ADDITIONAL COSTS TO CONTRACTOR, THE SERVICE WORK GOOD, INCLUDES REPAIR OR REPLACEMENT OF BUILDING FINISHES, OTHER MATERIALS OR DAMAGE TO OTHER EQUIPMENT CAUSED BY SUCH DEFECTS, OR BY SUBSEQUENT REPLACEMENT OR REPAIRS.

- INTERRUPTIONS TO AND SHUTDOWNS OF EXISTING SERVICES AND SYSTEMS CO-ORDINATE AND PERFORM SHUTDOWNS AND INTERRUPTIONS TO EXISTING SYSTEMS AND SERVICES AT TIMES ACCEPTABLE TO OWNER. OBTAIN WRITTEN APPROVAL IN ADVANCE OF SHUTDOWN OR INTERRUPTION. INCLUDE FOR COSTS OF PREMIUM TIME TIME PERFORM WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE OF NORMAL WORKING HOURS. AS NECESSARY TO MAINTAIN SERVICES IN OPERATION OR WITH MINIMUM INTERRUPTIONS AND TO INTERRUPTION WILL BE CARRIED OUT AS CONTINUOUS OPERATION TO MINIMIZE SHUTDOWN TIME AND TO REINSTATE SYSTEMS AS SOON AS POSSIBLE AND PRIOR TO SHUTDOWN. ENSURE MATERIALS AND LABOUR REQUIRED TO COMPLETE WORK FOR WHICH SHUTDOWN IS REQUIRED ARE AVAILABLE AT SITE.

### CUTTING, PATCHING AND CORE DRILLING

- DO CUTTING, PATCHING AND CORE DRILLING OF EXISTING BUILDING REQUIRED FOR INSTALL OF WORK. PERFORM CUTTING TO NEAT AND TRUE FINISH, WITH PROPER TOOLS AND EQUIPMENT TO MAINTAIN FINISHES. PATCHING TO BE DONE IN FIRE RATED CONSTRUCTION PACK AND SEAL VOID BETWEEN OPENING AND CONDUIT FOR LENGTH OF OPENING WITH ASBESTOS-FREE ELASTOMERIC ULC LISTED AND LABELED MATERIALS. INSTALL FIRE-STOP AND SMOKE SEAL MATERIALS IN ACCORDANCE TO ULC CERTIFICATION AND MANUFACTURER'S REQUIREMENTS TO PROVIDE FIRE-STOP RATINGS OF OPENINGS IN ACCORDANCE WITH GOVERNING BUILDING CODE REQUIREMENTS.
- DO NOT CUT OR DRILL EXISTING WORK WITHOUT PRIOR OWNER'S APPROVAL. IN CONSULTATION WITH OWNER AND BY USE OF X-RAY WITH OWNER'S APPROVAL, DETERMINE PRESENCE OF EXISTING SERVICES AND PERFORMING ROD CONCEALED BEHIND SURFACE TO BE CUT. NOTE: ELECTRICAL CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE DONE TO EXISTING BUILDING AND SERVICES CAUSED BY CUTTING OR DRILLING.

### DISCONNECTION, REMOVAL AND RELOCATION

- WHERE INDICATED ON DRAWINGS AND DETERMINED BY SITE VISIT, DISCONNECT AND REMOVE ITEMS OF EXISTING OBSOLETE ELECTRICAL WORK AND RELOCATE DEVICES, WHERE FIXTURES, SWITCHES, RECEPTACLES AND OTHER DEVICES AND/OR EQUIPMENT IS REMOVED, DISCONNECT AT POINT OF ELECTRICAL SUPPLY, REMOVE OBSOLETE WIRING AND MAKE SYSTEM SAFE. WHERE EXISTING OBSOLETE CONDUIT AND SIMILAR RACEWAY MATERIAL CANNOT BE REMOVE, CUT BACK AND CAP OBSOLETE CONDUITS OR RACEWAYS. REVISE PANELBOARD DIRECTORIES ACCORDINGLY IF AFFECTED BY WORK.
- UNLESS OTHERWISE NOTED, OBSOLETE MATERIALS WHICH ARE DISCONNECTED AND ARE NOT TO BE RELOCATED OR REUSED WILL BECOME THE PROPERTY OF THE ELECTRICAL CONTRACTOR REMOVE FROM SITE AND DISPOSE. OBTAIN FORM OWNER, LIST OF EXISTING ITEMS TO BE CAREFULLY REMOVED AND TURNED OVER TO OWNER. SAID ITEMS WILL REMAIN PROPERTY OF OWNER.
- PROVIDE JUNCTION BOXES, OUTLET BOXES, WIRING PLATES, ETC., AS NECESSARY FOR COMPLETE RELOCATION OF DEVICES. CLEAN AND RE-LAMP

- RELOCATED LUMINAIRES, REPLACE FAULTY BALLASTS. WHEN RELOCATION WORK IS COMPLETE, CONFIRM RELOCATED DEVICES ARE IN PROPER ORDER.
- WHERE EXISTING SERVICES PASS THROUGH OR ARE IN AN AREA TO SERVE ITEMS WHICH ARE TO REMAIN, MAINTAIN SERVICES. INCLUDE FOR RE-ROUTING EXISTING SERVICES CONCEALED BEHIND FINISHES AND WHICH BECOME EXPOSED DURING RENOVATION WORK, SO AS TO BE CONCEALED BEHIND FINISHES.
- IN AREAS WHICH ARE NOT BEING ARCHITECTURALLY RENOVATED AND WHICH DIVISION 16 MUST RUN SERVICES THROUGH, BE RESPONSIBLE FOR REMOVAL AND REINSTALLATION OF ARCHITECTURAL CEILINGS, MECHANICAL EQUIPMENT, SPRINKLERS, ETC., AS REQUIRED FOR INSTALLING OF ELECTRICAL CONTRACTORS WORK. PATCH AND MAKE GOOD (INCLUDING PAINTING) SURFACES TO MATCH EXISTING.

### HAZARDOUS MATERIALS

- AT ANY TIME DURING COURSE OF WORK ASBESTOS MATERIALS ARE ENCOUNTERED OR SUSPECTED, CEASE WORK IN AREA IN QUESTION AND IMMEDIATELY REPORT IN ACCORDANCE WITH ONTARIO REGULATION 654/85 (SECTION 7) TO CONSULTANT. DO NOT RESUME WORK IN AFFECTED AREA WITHOUT APPROVAL FROM CONSULTANT.

### RECORD DRAWINGS (AS-BUILTS)

- IF DRAWINGS FOR THIS PROJECT HAVE BEEN PREPARED ON A CAD SYSTEM, THE SOFTWARE USED IS AUTOCAD RELEASE 2000. COPIES OF DRAWINGS ON DISKS FOR USE IN PREPARING AS-BUILTS, MAY BE PURCHASED FROM CONSULTANT AT A COST OF \$40 CAD, PLUS GST PER DRAWING.
- WHEN WORK BEGINS AT SITE, CLEARLY AND ACCURATELY MARK ON A BOUND SET OF WHITE PRINTS OF CONTRACT DRAWINGS ON A DAILY BASIS ALL CHANGES AND DEVIATION FROM ROUTING OF AND LOCATIONS OF EQUIPMENT SHOWN ON CONTRACT DRAWINGS CHANGE AND DEVIATION INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS AND SITE INSTRUCTIONS, AND DEVIATIONS INCLUDING THOSE MADE BY ADDENDA, CHANGE ORDERS AND SITE INSTRUCTIONS. CHANGES AND DEVIATIONS INDICATED ON SUPPLEMENTAL DRAWINGS ISSUED WITH ADDENDA, CHANGE ORDERS AND SITE INSTRUCTIONS. MAINTAIN "AS-BUILT" WITH PRINTS AT SITE FOR PERIODIC INSPECTION BY CONSULTANT THROUGHOUT DURING OF WORK. PAY PARTICULAR ATTENTION TO ACCURATELY DIMENSIONING LOCATION OF ALL CONCEALED SERVICES TERMINATED FOR FUTURE EXTENSION, ALL BURIED WORK AND SERVICES AND CONDUIT DRAWING WITHIN BUILDING IN INACCESSIBLE LOCATIONS.
- WHEN WORK ENDS AT SITE, UPDATE A COPY OF CONTRACT DOCUMENT DRAWING DIS SET SO THAT IT REFLECTS ALL DEVIATIONS FROM ORIGINAL CONTRACT DOCUMENT DRAWINGS, THUS FORMING A TRUE "AS-BUILT" DRAWING DIS SET. PROVIDE SET OF REPRODUCIBLE MYLAR PRINTS TO CONSULTANT. DRAWINGS PRODUCED FROM TRUE "AS-BUILT" MYLAR PRINTS TO CONSULTANT. ALL SUBMITTED DRAWINGS SHALL BE OF THE SAME QUALITY AS ORIGINAL CONTRACT DOCUMENT DRAWINGS.
- UPDATE OWNER'S DISTRIBUTION RISER DIAGRAMS POSTED IN ELECTRICAL ROOM.

### SHOP DRAWINGS AND OPERATING & MAINTENANCE INSTRUCTION MANUALS

- SUBMIT SHOP DRAWINGS AND OPERATION & MAINTENANCE INSTRUCTION MANUALS FOR THE FOLLOWING:
  - SPECIAL RECEPTACLES AND SWITCHES;
  - LUMINAIRES;
  - TRANSFORMERS;
  - DIMMERS;
  - EMERGENCY LIGHTING BATTERY UNITS;
  - FIRE ALARM SYSTEM COMPONENTS;
  - PIPE TRACING AND ACCESSORIES;
  - SURFACE METAL RACEWAY;
  - ELECTRIC HEATING UNITS;
  - LOW VOLTAGE LIGHTING CONTROL COMPONENTS;
  - OUTSIDE LIGHTING CONTROL COMPONENTS;
  - ELECTRIC HEATING CABLE FOR PIPE TRACING;
  - FLOOR FITTINGS;
  - SNOW & DATA COMMUNICATION SYSTEM;
  - SERVICE POLES;
  - VOICE & POLES;
  - SECURITY SYSTEM;
  - NET WORK CABLEING SYSTEM.
- PROPERLY IDENTIFY SHOP DRAWING FOR REVIEW AND SHOW IN DETAIL EQUIPMENT AND MATERIALS. ENDORSE EACH DRAWING, INCLUDE COMPANY NAME AND SUBMITTAL DATE. PROVIDE MANUALS AS INDEXED, IDENTIFIED HARD, COVER 3-RING BINDERS COMPLETE WITH:
  - REVIEW COPY OF EACH DRAWING;
  - EXPLANATIONS OF OPERATING PRINCIPLES AND SEQUENCES;
  - PART LISTS WITH NUMBERS;
  - RECOMMEND MAINTENANCE PRACTICES AND PRECAUTIONS;
  - COPIES OF INSPECTION CERTIFICATES ISSUED BY GOVERNING AUTHORITIES;
  - COPIES OF PANELBOARD DIRECTORIES.
- PROVIDE 2 SETS OF MANUALS TO CONFIRM EXACT QUANTITY AND METHOD OF SUBMISSION WITH CONSULTANT.

### GENERAL CONDUIT AND CONDUCTOR INSTALLATION REQUIREMENTS

- INSTALL CONDUIT AND CONDUCTORS CONCEALED TO DEGREE MADE POSSIBLE BY FINISHES AND PROVED INSTALLATIONS IN ACCORDANCE WITH ELECTRICAL SAFETY CODE AND LOCAL CODES. PROVIDE PLAN AND CO-ORDINATE LOCATIONS AND ROUTING OF SERVICES WITH TRADES PRIOR TO INSTALLATION. IN AREAS WHERE A MULTIPLICITY OF SERVICES OCCURS, PREPARE DETAIL DRAWINGS AND SUBMIT TO CONSULTANT FOR REVIEW PRIOR TO START OF AFFECTED WORK.
- WHERE CONDUIT AND/OR CONDUCTORS ARE EXPOSED, ARRANGE SAME TO AVOID INTERFERENCE WITH OTHER WORK AND PARALLEL TO BUILDING LINES. WHERE HORIZONTAL CONDUITS AND/OR CONDUCTORS ARE EXPOSED, INSTALL AS HIGH AS POSSIBLE. DO NOT INSTALL CONDUIT AND/OR CONDUCTORS WITHIN 6" (150MM) OF "HOT" PIPES OR EQUIPMENT UNLESS CONDUIT AND/OR CONDUCTORS ARE ASSOCIATED WITH EQUIPMENT. UNDEPENABLY RUN CONDUIT AND CONDUCTORS MUST BE SUPPORTED FROM THE CEILING OR WALL STRUCTURE, NOT FROM CEILING HANGERS, DUCTWORK, PIPING, CABLE TRAYS ETC.
- IDENTIFY CONDUIT RUNS (IE. TAG BOTH ENDS OF CONDUIT RUNS)

### CONDUITS

- I PROVIDE CONDUIT FOR CONDUCTORS. CONDUIT TO BE EMT (THIN WALL) GALVANIZED ELECTRICAL METALLIC TUBING TO CSA C222 NO. 83, COMPLETE WITH FACTORY MADE BENDS WHERE SITE BENDING IS NOT POSSIBLE AND JOINTS AND TERMINATIONS MADE WITH SET SCREW TYPE CONNECTORS. FOR EACH BRANCH CIRCUIT CONNECTORS TO MOTORIZED EQUIPMENT AND TRANSFORMERS (MINIMUM LENGTH 18" (450MM), MAXIMUM LENGTH 24" (600MM) WITH 180 DEGREE LOOSE (BEND POSSIBLE)-GALVANIZED STEEL FLEXIBLE LIQUID - TIGHT METALLIC CONDUIT TO CSA C222 NOT. 56, COMPLETE WITH IDEAL STEEL "TOUGH" LIQUID TIGHT FLEXIBLE CONDUIT CONNECTORS AT TERMINATIONS. FOR CONDUIT GREATER THAN 2" (120MM), PROVIDE RIGID GALVANIZED STEEL TO CSA C222 NO. 45 COMPLETE WITH FITTINGS, CONNECTORS AND RIGID COUPLINGS).
- SUPPORT AND SECURE CONDUIT AT SPACING IN ACCORDANCE WITH CODE REQUIREMENTS BY MEANS OF GALVANIZED PIPE STRAPS, CONDUIT CLIPS, RING BOLT TYPE HANGERS OR BY OTHER PROPER MANUFACTURER DEVICES. PROVIDE CONDUIT FITTINGS CONSTRUCTED OF SAME MATERIALS AS CONDUIT AND SUITABLE FOR APPLICATION. SQUARE AND PROPERLY REAM ENDS OF SITE CUT CONDUIT. GENERALLY CONDUIT IS SIZED ON DRAWINGS. SIZE CONDUIT NOT SIZED ON DRAWINGS TO BE REPLACED WITH CONDUIT OF SAME SIZE. ALL CONDUIT DIAMETER WITH NO KINKS AND NO OBLONGING CRACKING OF FINISHES.

### CONDUCTORS

- I PROVIDE CONDUCTORS. REFER TO DRAWINGS FOR SIZING OF CONDUCTORS. GENERALLY BRANCH CIRCUIT CONDUCTOR SIZES ARE INDICATED ON CONSULTANT'S DRAWINGS. SUCH SIZES ARE MINIMUM REQUIREMENTS AND MUST BE INCREASED TO SUIT LENGTH OF RUN AND VOLTAGE DROP IN ACCORDANCE WITH SCHEDULE OBTAINED FROM CONSULTANT. CONDUCTORS NOT SIZED ON DRAWINGS SHALL BE SIZED IN ACCORDANCE WITH CODE. PROVIDE CABLE SUPPORT SYSTEM ACCESSORIES WHICH ARE NOT SPECIFIED HEREIN OR SHOWN ON DRAWINGS BUT ARE REQUIRED FOR PROPER INSTALLATION.
- CONDUCTORS TO BE "90 NYLON" SINGLE CONDUCTOR TO CSA C222 NO. 75, COLOUR CODED 194 DEGREES F. (90 DEGREES C), PVC INSULATED AND NYLON COVERED.
- BRANCH CIRCUIT CONDUCTORS IN ACCESSIBLE SUSPENDED CEILING SPACES, IN STUB WALL CONSTRUCTION TO SUSPENDED CEILING SPACES (MAXIMUM 20' (6M) RUN PERMITTED MAY BE "BX" TYPE AC-90 FLEXIBLE ARMORED CABLE WITH "RW-90" CONDUCTORS AND BARE COPPER GROUND CONDUCTORS TO CSA C22 NO. 51 (BULLETPIN NO.994) PROVIDE PROPER SQUEEZED TYPE CONNECTORS AND PLASTIC ANTI-SHORT BUSHINGS AT TERMINATIONS. SUPPORT "BX" IN CEILING SPACES AND IN STUB WALL CONSTRUCTION WITH STEEL 2 HOLE CABLE STRAPS TO "CODE" REQUIREMENTS.
- BRANCH CIRCUIT CONDUCTORS UP TO AND INCLUDING NO. 10 AWG SHALL BE SOLID CONDUCTORS IN SIZES LARGER THAN NO. 12 AWG UNLESS OTHERWISE NOTED.
- PROVIDE IDEAL ELECTRIC "IDEAL" NO. 451, NO. 452 AND NO. 453 "WING-NUT" CSA CERTIFIED 600V RATED PRESURE TYPE CONNECTORS.

- COLOUR CODE CONDUCTORS IN ACCORDANCE WITH CODE, THROUGHOUT TO IDENTIFY PHASES, NEUTRALS AND GROUND BY MEANS OF SELF-LAMINATING COLOURED TAPE, COLOURED CONDUCTOR INSULATION OR PROPERLY SECURED COLOURED PLASTIC DISCS.
- WHEN PULLING WIRES INTO CONDUIT, USE IDEAL ELECTRIC "IDEAL YELLOW 77" LUBRICANT. ENSURE WIRES ARE KEPT STRAIGHT AND ARE NOT TWISTED OR BRAISED.

### OUTLET BOXES, PULL BOXES AND JUNCTION BOXES

- PROVIDE CSA APPROVED STAMPED GALVANIZED STEEL OUTLET BOX FOR EACH LUMINAIRE, FIRE ALARM DEVICE, ETC. REFER TO DRAWINGS FOR LOCATIONS OF OUTLETS. CONFIRM EXACT LOCATIONS PRIOR TO ROUGH-IN.
- PROVIDE PULL BOXES AND JUNCTION BOXES WHEREVER NECESSARY TO FACILITATE CONDUIT INSTALLATIONS. GENERALLY, PROVIDE CONDUIT RUNS EXCEEDING 100' (30M) IN LENGTH OR WITH MORE THAN 3, 90 DEGREE BENDS WITH PULL BOX INSTALLED AT CONVENIENT AND SUITABLE INTERMEDIATE ACCESSIBLE LOCATION. PROVIDE JUNCTION BOXES AND PULL BOXES SIZED IN ACCORDANCE WITH CODE TO SUIT NUMBER AND SIZE OF CONDUITS AND CONDUCTORS. BOXES TO BE GALVANIZED OR PRIME COATED PLATED STEEL COLEST COMPLETE WITH SCREW-ON APPROVAL FIRE HINGED COVERS AND KNOCKOUTS. BOXES MUST BE ACCESSIBLE AFTER WORK IS COMPLETE.
- SIZE, ARRANGEMENT AND TYPE OF BOXES MUST BE SUITABLE FOR APPLICATION. PROVIDE BLANK COVER PLATES ON EXISTING OBSOLETE BOXES WHICH ARE TO REMAIN. CLEARLY IDENTIFY MAIN PULL OR JUNCTION BOXES BY SPRAY PAINTING COVERS IN ACCORDANCE WITH FOLLOWING COLOUR SCHEDULE:
  - LIGHTING - YELLOW
  - NORMAL POWER - BLUE
  - ESSENTIAL POWER - ORANGE
  - FIRE ALARM - RED
- WHERE REQUIRED, SUPPLY ACCESS DOORS OF MINIMUM NO. 23 GAUGE. PRIME COATED STEEL COMPLETE WITH HINGES AND FRAMES TO GIVE ACCESS TO BOXES AND CONDUCTOR JOINTS AND OTHER SIMILAR ELECTRICAL WORK WHICH MAY NEED MAINTENANCE OR REPAIR, BUT WHICH IS CONCEALED IN AN ACCESSIBLE CONSTRUCTION. CONFIRM FINISHES WITH OWNER.

### RECEPTACLES, SWITCHES AND FACE PLATES

- PROVIDE HUBBELL CANADA CSA APPROVED SPECIFICATION GRADE AC QUIET ACTION TOGGLE TYPE, 20A, 120V-277V SWITCHES AND SPECIFICATION GRADE QUALITY DUPLEX NYLON CONSTRUCTION TYPE 15 AMP, 125V, 5W RECEPTACLES. DEVICES SHALL BE BACK AND SIDE WIRED. PROVIDE GRADE 18-8 TYPE 302.304 0.041" (1MM) THICK STAINLESS STEEL FACE PLATES WITH MATCHING SCREWS. CONFIRM TYPE AND FINISH OF DEVICES WITH OWNER PRIOR TO ORDERING.
- WHERE SHOWN, PROVIDE HUBBELL NO. IG5262, 15A-125V ULC LISTED, 2-POL 3W, ORANGE COLOURED, SPECIFICATION GRADE ISOLATED GROUND DUPLEX RECEPTACLE COMPLETE WITH STAINLESS STEEL COVER PLATE AND MATCHING SCREWS.
- WHERE SHOWN, PROVIDE HUBBELL NO. GF5252, 15A-125V ULC LISTED CLASS A, GROUP ONE, 2-POL, 3VORY COLOURED SPECIFICATION GRADE, GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE, COMPLETE WITH STAINLESS STEEL COVER PLATE AND MATCHING SCREWS.
- PROVIDE PERMANENTLY LABELED, SELF ADHESIVE IDENTIFICATION TAPE ON INSIDE AND OUTSIDE OF EACH DEVICE. IDENTIFY IDENTIFYING LOCATION FROM WHERE EACH DEVICE IS FED.
- ACCEPTABLE MANUFACTURES INCLUDE LEVITON, PASS AND SEYMOUR, ARROW-HEAR AND BRYANT.

### FASTENING AND SECURING HARDWARE

- PROVIDE PROPER FASTENERS AND SIMILAR HARDWARE REQUIRED FOR CONDUIT CONDUCTORS AND FOR EQUIPMENT HANGER AND/OR SUPPORT MATERIAL. UNLESS OTHERWISE NOTED, EXPLOSIVE POWER ACTUATED FASTENERS WILL NOT BE PERMITTED UNLESS SPECIFIC APPROVAL FOR US AND TYPE HAS BEEN OBTAINED FROM CONSULTANT. UNDER NO CIRCUMSTANCES US CEILING SUSPENSION HANGERS OR GRIDS FOR SUSPENSION OF CONDUIT AND CONDUCTORS.

### IDENTIFICATION NAMEPLATES

- FOR EACH PIECE OF ELECTRICAL DISTRIBUTION EQUIPMENT FROM ELECTRICAL SOURCE OF SUPPLY UP TO AND INCLUDING PANELBOARDS, PROVIDE ENGRAVED LAMACOID IDENTIFICATION NAMEPLATES SECURED TO APPARATUS WITH:

### FUSES

- PROVIDE COMPLETE SET OF FUSES FOR EACH FUSIBLE DISCONNECT OR SIMILAR FUSIBLE EQUIPMENT. FUSES TO BE FORM CLASS "J" HRC FUSES OR CONSTANT RUNNING EQUIPMENT AND FOR 11 CLASS "C" FUSES FOR MOTOR EQUIPMENT THAT CYCLES "ON" AND "OFF". ACCEPTABLE MANUFACTURERS ARE ENGLISH ELECTRIC, BUSSMAN AND GOUDD.

### DISCONNECT SWITCHES

- I PROVIDE DISCONNECT SWITCHES, CUTLERHAMMER CANADA, HEAVY DUTY, CSA APPROVED ROP OPERATED TYPE, FUSIBLE UNITS TO BE COMPLETE WITH FUSE CLIPS SUITABLE FOR HRC FUSES, UNLESS OTHERWISE NOTED. ENCLOSURES TO BE SPRINKLER-PROOF. RAMP RATING, NUMBER OF POLES AND FUSE SIZE AS INDICATED ON DRAWINGS. IN ALL CASES, ACCEPTABLE MANUFACTURERS INCLUDE SIEMENS ELECTRIC, FEDERAL PIONEER AND SQUARE "D" CANADA.

### CIRCUIT BREAKERS FOR EXISTING PANELBOARDS

- PROVIDE BREAKERS IN EXISTING PANELBOARDS OF TYPE TO MATCH EXISTING DEVICES. QUALITY AND STANDARDS OF BREAKERS SHALL MATCH EXISTING. CONFORM REQUIREMENTS ON SITE PRIOR TO ORDERING. PROVIDE FOR ALL MODIFICATIONS TO PANELBOARDS FOR BREAKERS AND FEEDER INSTALLATIONS. PROVIDE REPAIR BRANDS CIRCUIT DIRECTORY CARDS NEATLY TYPEWRITTEN TO INCORPORATE ADDITIONAL AND EXISTING CONNECTED LOADS TO CONSULTANTS DIRECTIONS. DIRECTORIES SHALL USE OWNERS ACTUAL ROOM NAMES & NUMBERS AND NOT THE BUILDING AND MANUFACTURER'S. PROVIDE ENGRAVED LAMACOID I.D. NAMEPLATES FOR DISTRIBUTION PANELBOARDS TO CONSULTANTS DIRECTION.

### PANELBOARDS

- I PROVIDE CUTLER-HAMER CANADA TYPE "POW-R-LINE 1" FACTORY ASSEMBLED DEAD FRONT PANELBOARD, 120/208V 3 PHASE 4 WIRE, MANUFACTURED TO CSA STANDARD C22 NO 29 AND ELECTRICAL SAFETY AUTHORITY CODE AND DESIGNATED FOR AN INTERRUPTING CAPACITY OF 10KA SYMMETRICAL AT 208V.
- INSTALL PANEL BOARDS WHERE SHOWN COMPLETE WITH:
  - EMAC 2 SPRINGER-PROOF ENCLOSURE CONSTRUCTED OF CODE GAUGE GALVANIZED STEEL WITH REMOVABLE BOX ENDS, WIRING GUTTER SPACE ON SIDES AND A ASA-61 GREY BAKED ACRYLIC ENAMEL FINISH.
  - TRIM FOR RECESSED OR SURFACE WALL MOUNTING AS SHOWN CONSTRUCTED CODE GAUGE STEEL, BOWDERLIZED, FINISHED WITH ASA-61 GREY BAKED ACRYLIC ENAMEL AND COMPLETE WITH CONCEALED FASTENER, CONCEALED HINGE, CHROME PLATED DOOR, LATCH AND KEYED ALIKE LOCK WITH KEY, STEEL FRAME HOLDER AND CIRCUIT DIRECTORY BACK OF DOOR AND MYLAR CIRCUIT BREAKER IDENTIFICATION STRIPS.
  - DROP SHIELD FOR SURFACE MOUNTED PANELBOARDS.
  - HARD DRAWN ELECTRICAL GRADE COPPER BUS AND GROUND BUS.
  - HIGH STRENGTH SET SCREW TYPE ANTI-TURNING WIRE CONNECTORS.
  - BOLT ON MOULDED CASE CIRCUIT BREAKERS.
  - MAIN BREAKER AND GREEN POWER "ON" INDICATOR LIGHT, WHERE SCHEDULED.
  - 2008 CAPACITY NEUTRALS FOR PANELBOARDS AS SCHEDULED.
- PROVIDE DOUBLE LUGGING TO EXISTING PANELBOARDS AS SHOWN.
- SUPPORT CABINET INDEPENDENT OF CONNECTING CONDUIT. TURN OVER TO CONSULTANT PRIOR TO APPLICATION FOR SUBSTANTIAL PERFORMANCE OF WORK QUANTITY OF 2 PANELBOARD CABINET KEYS FOR PANELBOARD. IDENTIFY PANELBOARD BREAKERS IN PERMANENT MANNER AND COMPLETE TYPED CIRCUIT DIRECTORY TO OWNER'S APPROVAL.
- ACCEPTABLE MANUFACTURES INCLUDE SIEMENS ELECTRIC, FEDERAL PIONEER AND SQUARE "U" CANADA.

### ELECTRICAL CONNECTIONS FOR MECHANICALS, OWNER'S ETC., EQUIPMENT

- I PROVIDE REQUIRED ELECTRICAL CONNECTIONS TO APPARATUS SUPPLIED BY DIVISION 15, OWNER AND AS PART OF OTHER DIVISIONS. DO REQUIRED ELECTRICAL WORK FOR EQUIPMENT SCHEDULED ON DRAWINGS. DIVISION 15 WILL SUPPLY STARTERS FOR MOTORIZED APPARATUS SUPPLIED BY THEM AND WILL PROVIDE LAMACOID IDENTIFICATION THROUGHOUT.
- BE RESPONSIBLE FOR:
  - COMPLETE INSTALLATION AND CONNECTION OF STARTERS AND PROVIDE "LINE" AND "LOAD" POWER CONNECTIONS AND INTERLOCKING AS REQUIRED.
  - PROVIDE MOTOR STARTER PANELS CONSISTING OF NO. 14 GAUGE STEEL 2.5" DIA PANELS SIZED TO ACCOMMODATE STARTERS AS REQUIRED AND SUITABLE SPLITTER.
  - UNLESS OTHERWISE NOTED OR SHOWN ON DRAWINGS, MOUNT 1-PHASE STARTERS ADJACENT TO EQUIPMENT THEY SERVE AND CONNECT COMPLETE.

- CO-ORDINATE FEEDER ENTRIES TO STARTERS AND STARTER ASSEMBLIES WITH DIVISION 15.
- PROVIDE ADDITIONAL DISCONNECT SWITCHES (COMPLETE WITH IDENTIFICATION PLATES) ON DRAWINGS REQUIRED BY CODE, OR FOR APPARATUS WHICH CANNOT BE SEEN FROM ITS STARTER OR IN EXCESS OF 30' (9M) FROM IT STARTER).
- DO INTERLOCK WIRING INDICATED ON DRAWINGS AND /OR SCHEDULES.
- CONNECT REQUIRED THROUGH TO MOTOR STARTER PANEL SO AS TO BALANCE ACTUAL LOADS (WATTAGE).

### GENERAL ELECTRICAL WORK TESTING

- IN ADDITION TO TESTS REQUIRED BY GOVERNING AUTHORITIES AND REGULATIONS, TEST WORK TO ENSURE THERE ARE NO LEAKS, GROUNDS OR CROSSES. ENSURE DEVICES ARE COMMISSIONED AND OPERABLE. CONNECT CIRCUITS TO PANEL BOARDS SO AS TO BALANCE ACTUAL LOADS (WATTAGE) WITHIN 5% IF REQUIRED TRANSPOSE CIRCUITS WHEN WORK IS COMPLETE TO MEET THIS REQUIREMENT.

### EXISTING FIRE ALARM SYSTEM WORK

- WHERE SHOWN ON DRAWINGS, DISCONNECT, RELOCATE AND RECONNECT REQUIRED DEVICES, NEW WORK TO BE AN EXTENSION OF EXISTING SYSTEM. PROVIDE ADDITIONAL DEVICES WHERE SHOWN. CONDUCTORS IN CONDUIT AND END-OF-LINE RESISTORS, PRONE RELOCATORS, PROVIDE ULC LISTED DEVICES TO MATCH EXISTING DEVICES AND BE COMPLETELY COMPATIBLE WITH EXISTING SYSTEM. PERFORM WORK IN ACCORDANCE WITH LATEST ADDITION OF CAN/ULC-524. SEQUENCE OF OPERATION OF NEW WORK TO BE APPROVED BY THE OWNER AND THE ZONE OTHERWISE NOTED, CONTACT ADDITIONAL DEVICES TO EXISTING ZONES SERVING AREA AND PROVIDE WIRING OF MINIMUM NO. 16 AWG IN CONDUIT AND AS PER ELECTRICAL SAFETY AUTHORITY CODE REQUIREMENTS. ALARM RECEIVING CIRCUITS SHALL BE RUN IN SEPARATE CONDUITS FROM ALARM SIGNALING CIRCUITS.
- DURING WORK TO THE EXISTING FIRE ALARM SYSTEM THE TIME AND DURATION OF INTERRUPTION SHALL BE APPROVED BY THE OWNER AND THE ZONE SHALL BE INTERRUPTED AT ANY 1 TIME. IN ALL AREAS WHERE THE RENOVATION WORK REQUIRES SHUTDOWN OF ANY PART OF THE FIRE ALARM PROTECTION SYSTEM, PROVIDE MANUAL FIRE ALARM PROTECTION (FIRE WARDEN BY MEANS OF SUPERVISING THE AREA AS APPROVED BY GOVERNING AUTHORITIES. AT NO TIME SHALL THE FIRE ALARM SYSTEM OR ANY 1 ZONE BE LEFT INOPERATIVE OVERNIGHT PROVIDE ALL REQUIRED BYPASS WIRING AND TEMPORARY WIRING AS MAY BE REQUIRED TO MAINTAIN ALL PARTS OF THE FIRE ALARM SYSTEM OPERATIVE DURING CONSTRUCTION AND ALTERATIONS.
- COVER EXISTING DETECTORS TO PROTECT FROM DEMOLITION & CONSTRUCTION. MUST REMOVE COVERS WHEN ALTERNATIVE FIRE ALARM PROTECTION IN AREA IS NOT AVAILABLE OVERNIGHT.
- WHEN FIRE ALARM SYSTEM WORK IS COMPLETE AND READY FOR ACCEPTANCE PROVIDE AND ARRANGE OR INDEPENDENT TESTING COMPANY SUCH AS BROSSZ AND ASSOCIATES, LEBER/RUES REMALL BROWN AND ASSOCIATES OR DETRON SAFETY CONSULTANTS OF IF APPROVED BY OWNER- EXISTING FIRE ALARM MAINTENANCE CONTRACTOR TO INSPECT, TEST AND CERTIFY EQUIPMENT INCLUDING EXISTING DEVICES, SIGNALING DEVICES, CONTROL DEVICES AND WIRING. PROVIDE CERTIFICATE OF LIABILITY INSURANCE REGISTERED FOR THIS PROJECT TO SHOW SATISFACTORY PROOF OF MANUFACTURER'S AND TESTING COMPANY'S LIABILITY COVERAGE FOR BOTH HIS PRODUCT AND PERSONNEL. CONDUCT WORK IN ACCORDANCE WITH LATEST EDITION OF CAN/ULC-5536 AND 5537. TESTS TO BE CONDUCTED IN PRESENCE OF OWNER AND/OR CONSULTANT.

### PROVISION FOR TELEPHONE SYSTEM COMPONENTS

- PROVIDE COMPLETE SYSTEM OF EMPTY CONDUITS, OUTLET BOXES, JUNCTION BOXES, FACE PLATES AND SURFACE MOUNTED LIGHTING. PROVIDE 1/2" (12MM) PLYWOOD BACKBOARDS TO ACCOMMODATE FUTURE EXTENSION OF EXISTING TELEPHONE SYSTEM BY SYSTEM INSTALLER WHO WILL PROVIDE EQUIPMENT AND WIRING. PROVIDE BLANK TYPEWRITTEN KEYS.
- PROVIDE CONDUIT WITH MINIMUM DIAMETER AS SHOWN. PROVIDE PULL BOXES IN CONDUIT RUNS LARGER THAN 100' (30M) OR HAVING MORE THAN 2 - DEGREE BENDS. PULL BOX SIZES SHALL NOT BE LESS THAN 6 TIMES ENTERING CONDUIT IN LENGTH. PROVIDE IDENTIFICATION TAGS ON EACH END OF CONDUIT AND TERMINATE AS SHOWN. EQUIPMENT TERMINATIONS WITH BUSHINGS AND CLEARLY IDENTIFY EACH RUN. PROVIDE FISH WIRES IN EMPTY CONDUIT.
- CONFORM EXACT REQUIREMENTS AND INSTALLATIONS OF EQUIPMENT WITH OWNER AND SYSTEM INSTALLER PRIOR TO ROUGH-IN.

### LUMINAIRES

- PROVIDE LUMINAIRES AS SCHEDULED COMPLETE WITH ENERGY SAVING BALLAST. CONFIRM FINISHES WITH CONSULTANT PRIOR TO ORDERING. PROVIDE STANDARD LIFE LAMPS AS MAY BE REQUIRED BY LICITATORS OF CANADA, PHILIPS LIGHT OR GTE SYLVANIA. INCLUDE LAMP LISTING IN LUMINAIRES MANUALS.
- PROVIDE LUMINAIRES AS NOTED COMPLETE WITH ELECTRONIC BALLASTS. CONFIRM FINISHES WITH CONSULTANT PRIOR TO ORDERING. PROVIDE 18 (2850 LUMENS INITIAL 3500K, MINIMUM CR1 85) LAMPS AS MANUFACTURED BY GE LIGHTING CANADA, PHILIPS LIGHTING OR OSRAM SYLVANIA INCLUDE LAMP LISTING IN LUMINAIRES MANUALS. ACCEPTABLE BALLAST MANUFACTURES ARE ADVANCE TRANSFORMER CO. (PHILIPS), ELECTRONIC ENERGY SAVING BALLAST AS FOLLOWS:
  - CSA APPROVED AND ULC LISTED AND LABELED;
  - COMPLY WITH FCC RULES AND REGULATIONS AND ANSI SPECIFICATION C62.41-1980/C62.45-87;
  - RAPID START IN ACCORDANCE WITH ANSI SPECIFICATION C82.1
  - CLASS A SOUND RATING;
  - CAPABLE OF STARTING LAMPS DOWN TO 50 DEGREES F. (10 DEGREES C);
  - TOTAL HARMONIC DISTORTION SUMMARIZING SECOND TO THIRTY-NINTH HARMONICS SHALL NOT EXCEED 10% OF THE FUNDAMENTAL FREQUENCY.
  - MINIMUM POWER FACTOR OF 0.95 AND BALLAST FACTOR OF AT LEAST 0.85;
  - LAMP CURRENT CREST FACTOR NOT GREATER THAN 1.7;
  - FREQUENCY OF OPERATION BETWEEN 20 KHZ MINIMUM TO 60 KHZ MAXIMUM WITHOUT VISIBLE FLICKER.
  - 210 - 5 YEAR FULL REPLACEMENT PATTS AND LABOUR INCLUDED WARRANTY. THOROUGHLY REVIEW CEILING LIGHTING AND ELECTRICAL DETAIL DRAWINGS WITH OWNER BEFORE PLACING LUMINAIRES ORDERS AND ENSURE REQUIRED MOUNTING ASSEMBLIES, RINGS AND SIMILAR FEATURES ARE INCLUDED. INCLUDE INSTRUCTIONS REVEST COILLY MOUNTING REQUIREMENTS AND THUS BE PROVIDED WITH NORDX/GTS 15 YEAR APPLICATION ASSURANCE PRODUCT WARRANTY. THE SELECTED CONTRACTOR MUST EST AND CERTIFY THE INSTALLATION AND HONOR MANUFACTURER'S WARRANTY PROGRAMS. PROVIDE TO CONSULTANT, A DOCUMENTED LETTER ATTESTING THE NORDX/GTS CERTIFICATION OF CONTRACTOR REGARDING CATEGORY C LABELING INSTALLATIONS.
- PROVIDE PRODUCTS AS FOLLOWS:
  - GENERAL PURPOSE 15 PLENUM RATED, 4 PAIR 24 AWG, ULC LISTED AND VERIFIED UNSHIELDED TWISTED PAIR, COPPER CONDUCTOR WIRING;
  - NORD/CDT NO. ONE3FN/8A/AC(10) CATEGORY 5 DUAL MODULAR DATA & 4 PAIR JACK COMPLETE WITH FLUSH WALL MOUNTING FACE PLATE AND NO. P007029 SERIES IDENTIFICATION LABELS;
  - NORDX/CDT NO. QMB1X31A CONNECTOR MOUNTS WITH COVER AND 4 NO. QCBX-360A CONNECTORS. DISTRIBUTION RINGS, DESIGNATION STRIPS; IDENTIFICATION LABELS AND ALL REQUIRED ANCHORING DEVICES.
  - PROVIDE 2 RUNS OF CABLE TO EACH DUAL JACK OUTLET.
  - CABLEING MUST BE RUN IN RACEWAYS OR CONDUIT AND ADEQUATELY SUPPORTED WITH PROPER CALMS OR HARNESS. INACCESSIBLE SUSPENDED CEILING SPACES, CABLEING IS NOT REQUIRED TO BE RUN IN CONDUIT BUT MUST BE NEATLY BUNDLED AND PROPERLY SUPPORTED TAG AND LABEL BOTH ENDS OF CABLES AND LABEL JACK IN ACCORDANCE WITH OWNER'S WRITTEN INSTRUCTIONS. PROVIDE GROUNDS AS REQUIRED. INSTALL MOUNTS ON OBG FLAME SPREAD RATING PLYWOOD BACKBOARD WHERE SHOWN.
  - WHEN PREPARING CABLE FOR TERMINATION, STRIP AS LITTLE OUTER JACKET AS POSSIBLE AND DO NOT UNWIST CABLE PAIRS MORE THAN 1/2" (12MM) FROM END. DO NOT SPICE CABLES.
  - UPON COMPLETION OF INSTALLATION, TEST ENTIRE STRUCTURAL CABLEING SYSTEM AND PROVIDE DOCUMENTATION OF TEST RESULTS TO CONSULTANT. TESTING SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

### VOICE & DATA

- THE VOICE & DATA SYSTEM COMPONENTS SHALL BE SUPPLIED AND INSTALLED BY A NORDX/CDT CERTIFIED SYSTEM VENDOR. THE PRODUCTS AND INSTALLATION MUST COMPLY WITH NORDX/GTS 15 YEAR APPLICATION ASSURANCE PRODUCT WARRANTY. THE SELECTED CONTRACTOR MUST EST AND CERTIFY THE INSTALLATION AND HONOR MANUFACTURER'S WARRANTY PROGRAMS. PROVIDE TO CONSULTANT, A DOCUMENTED LETTER ATTESTING THE NORDX/GTS CERTIFICATION OF CONTRACTOR REGARDING CATEGORY C LABELING INSTALLATIONS.
- PROVIDE PRODUCTS AS FOLLOWS:
  - GENERAL PURPOSE 15 PLENUM RATED, 4 PAIR 24 AWG, ULC LISTED AND VERIFIED UNSHIELDED TWISTED PAIR, COPPER CONDUCTOR WIRING;
  - NORD/CDT NO. ONE3FN/8A/AC(10) CATEGORY 5 DUAL MODULAR DATA & 4 PAIR JACK COMPLETE WITH FLUSH WALL MOUNTING FACE PLATE AND NO. P007029 SERIES IDENTIFICATION LABELS;
  - NORDX/CDT NO. QMB1X31A CONNECTOR MOUNTS WITH COVER AND 4 NO. QCBX-360A CONNECTORS. DISTRIBUTION RINGS, DESIGNATION STRIPS; IDENTIFICATION LABELS AND ALL REQUIRED ANCHORING DEVICES.
  - PROVIDE 2 RUNS OF CABLE TO EACH DUAL JACK OUTLET.
  - CABLEING MUST BE RUN IN RACEWAYS OR CONDUIT AND ADEQUATELY SUPPORTED WITH PROPER CALMS OR HARNESS. INACCESSIBLE SUSPENDED CEILING SPACES, CABLEING IS NOT REQUIRED TO BE RUN IN CONDUIT BUT MUST BE NEATLY BUNDLED AND PROPERLY SUPPORTED TAG AND LABEL BOTH ENDS OF CABLES AND LABEL JACK IN ACCORDANCE WITH OWNER'S WRITTEN INSTRUCTIONS. PROVIDE GROUNDS AS REQUIRED. INSTALL MOUNTS ON OBG FLAME SPREAD RATING PLYWOOD BACKBOARD WHERE SHOWN.
  - WHEN PREPARING CABLE FOR TERMINATION, STRIP AS LITTLE OUTER JACKET AS POSSIBLE AND DO NOT UNWIST CABLE PAIRS MORE THAN 1/2" (12MM) FROM END. DO NOT SPICE CABLES.
  - UPON COMPLETION OF INSTALLATION, TEST ENTIRE STRUCTURAL CABLEING SYSTEM AND PROVIDE DOCUMENTATION OF TEST RESULTS TO CONSULTANT. TESTING SHALL INCLUDE BUT NOT LIMITED TO THE FOLLOWING:

- CABLE LENGTH;
- ATTENUATION;
- END TO END CONTINUITY;
- OPENS OR SHORTS;
- PAIR POLARITY;
- INCLUDE COST FOR CONNECTION AND RE-TESTING FO DEFECTIVE WIRING AND/OR COMPONENTS FOUND;
- SYSTEM SHALL COMPLY WITH REQUIREMENTS OF APPLICABLE CODES INCLUDING TIA/EIA T568A/B, T5836 AND T6840.
- PROVIDE CONDUIT WITH MINIMUM DIAMETER AS SHOWN. PROVIDE PULL BOXES IN CONDUIT RUNS LONGER THAN 100' (30M) OR HAVING MORE THAN 2-90 DEGREE BENDS. PULL BOX SIZES SHALL NOT BE LESS THAN 6 TIMES ENTERING CONDUIT IN LENGTH. LEAVE CONDUITS FREE AND CLEAR OF OBSTRUCTION AND TERMINATE AS SHOWN EQUIPMENT TERMINATION WITH BUSHINGS AND CLEARLY IDENTIFY EACH RUN.

### EMERGENCY LIGHTING SYSTEM

- EMERGENCY BATTERY UNITS SHALL BE DESIGNED TO PROVIDE EMERGENCY LIGHTING FOR AT LEAST 30 MINUTES AUTOMATICALLY UPON FAILURE OF A NORMAL POWER SOURCE. UPON RESTORATION OF THE NORMAL POWER, THE BATTERY UNIT SHALL BE RESTORED AUTOMATICALLY TO A CHARGING CONDITION. THE CHARGING CYCLE SHALL RAISE THE BATTERY TO AN EQUALIZED VOLTAGE AND THEN ELECTRONICALLY SENSE THE FULL STATE OF CHARGE IN THE BATTERY AND RETURN THE BATTERY TO A LOWER FLOAT VOLTAGE. THE CHARGER SHALL BE REGULATED TO A PLUS OR