

NOTES:

1. MATERIALS REMOVED FROM TRENCH SHALL BE REPLACED ON TOP OF HORIZONTAL PORTION OF FILTER CLOTH.
2. FILTER CLOTH SHALL BE HORIZONTALLY OVERLAPPED 500 mm.
3. SILT FENCE INSTALLATION WORK SHALL AVOID THE DESTRUCTION OF EXISTING WOODY VEGETATION (E.G. SHRUBS AND TREES OTHER THAN THOSE SPECIES WHICH MAY HAVE BEEN APPROVED FOR REMOVAL).

All dimensions are in millimetres unless otherwise shown.

ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING	REV 1	NOV 2014
T-219.130-1		
NTS		SHEET 1

CITY OF TORONTO - EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE WATER. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48 HOURS OF INSPECTION OR BOTH.
2. ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE, AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREA. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF A DELETERIOUS SUBSTANCE, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND A TORONTO REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
4. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE WATER. VEHICULAR REFUELING AND MAINTENANCE AND REFUELING WILL BE CONDUCTED A MINIMUM OF 30 m FROM THE WATER.
5. ALL GRADES WITHIN THE REGULATORY FLOOD PLAN WILL BE MAINTAINED OR MATCHED.
6. IF NECESSARY, TRUCKS WILL BE WASHED DOWN BEFORE LEAVING THE SITE.
7. THE SITE WILL BE WET DOWEN IF NECESSARY TO CONTROL DUST.
8. ALL CONSTRUCTION EQUIPMENT MUST BE PARKED ON-SITE.
9. SEDIMENT CONTROL FENCE TO BE AS PER DETAIL ON THIS DRAWING.
10. ALL SILTSACK SEDIMENT CONTROL DEVICES TO BE ROUTINELY INSPECTED AND MAINTAINED IN PROPER WORKING ORDER UNTIL AREA IS STABILIZED.
11. SILTSACK TO BE PLACED UNDER GRATES ON ALL CATCHBASINS TO TRAP SEDIMENT. SILTSACK ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. SILTSACK FOR SILT CONTROL TO BE TERRA FIX SILTSACK OR APPROVED EQUIVALENT AS PER DETAIL ON THIS DRAWING.
12. IN THE CASE OF ANY CONFLICT WITH ANOTHER PLAN, THIS PLAN PREVAILS ONLY IN RESPECT TO CONSTRUCTION MEASURES AND ACTIVITIES SUCH AS THE CONSTRUCTION ACCESS, SILT FENCE, SECURITY FENCING, SEDIMENT CONTROL, AND MUD MATS.
13. STREET SWEEPING, CATCH BASIN CLEANING AND DUST CONTROL ARE THE RESPONSIBILITY OF THE DEVELOPER AND MUST BE KEPT UNDER CONTROL ON ALL ROADWAYS TO THE SATISFACTION OF THE CITY.
14. APPROPRIATE SIGNAGE IS TO BE INSTALLED ON THE BOULEVARD TO INDICATE THAT THE SIDEWALK IS NOT ACCESSIBLE.

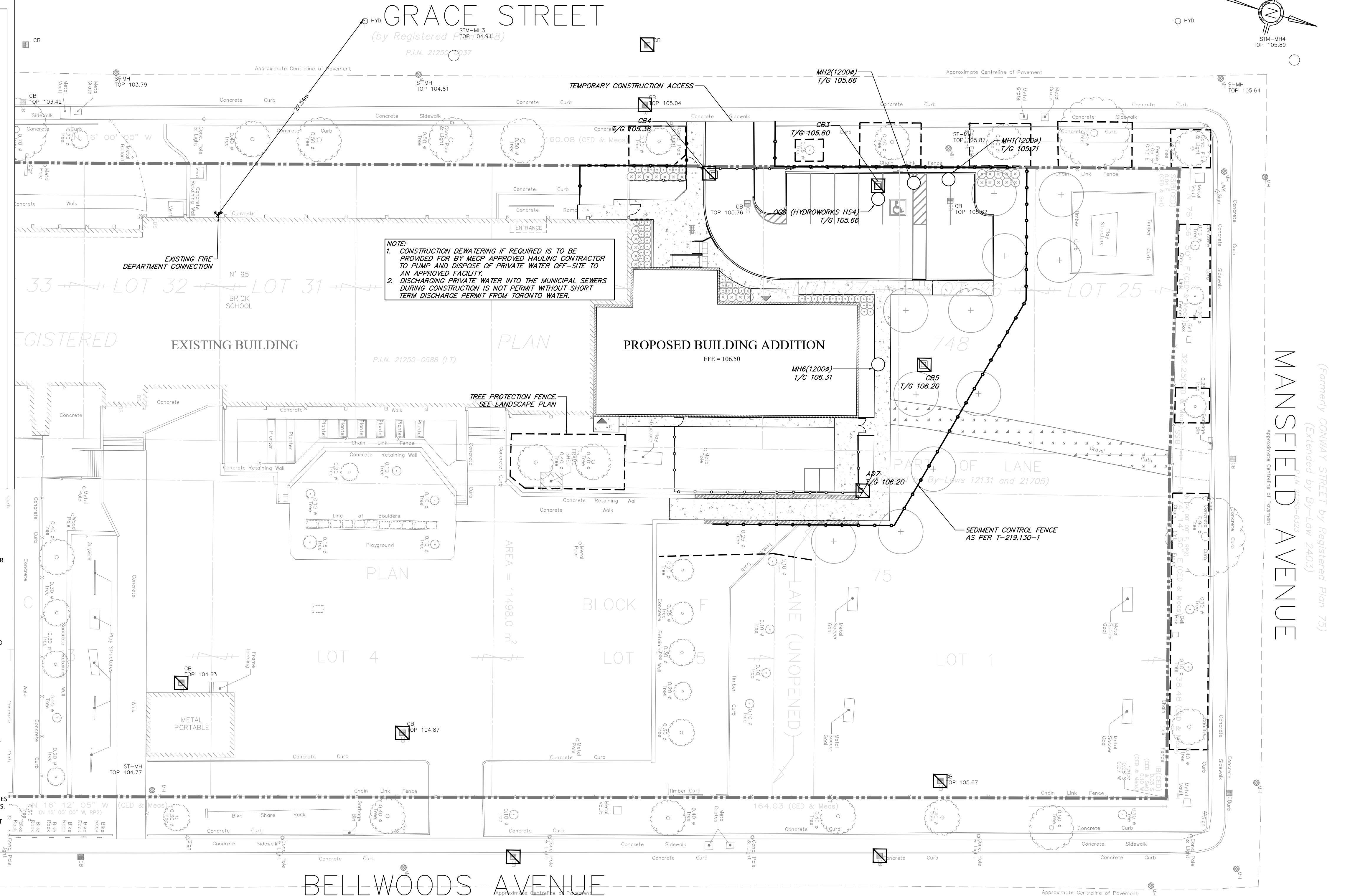
CITY OF TORONTO NOTES:

LEGISLATION, REGULATION AND CODES

1. ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED ACCORDING TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATION. ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS MAY, SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, BE USED WHERE NO CITY STANDARD OR SPECIFICATION IS AVAILABLE.
2. ALL WORK SHALL BE COMPLETED ACCORDING TO THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
3. ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.

CONSTRUCTION NOTES

1. ALL MATERIAL FOR SEWER, FORCEMAIN, WATERMAIN, HYDRANTS AND APPURTENANCES, SHALL BE ACCORDING TO CITY OF TORONTO MATERIAL/MANUFACTURER SPECIFICATIONS AS REQUIRED BY CHAPTER 6, MATERIAL SPECIFICATIONS FROM DESIGN CRITERIA FOR SEWERS AND WATERMANS MANUAL.
2. UTILITY SEPARATION SHALL BE ACCORDING TO APPENDIX 'D' OF THE CITY OF TORONTO DESIGN CRITERIA FOR SEWERS AND WATERMANS MANUAL.
3. SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL ACCORDING TO TS 4.60.
4. ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. GRASS AREAS SHALL BE TREATED WITH 100mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO TS 5.00 AND TS 5.10.
5. ALL EXISTING UTILITIES SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL SATISFY THEMSELVES AS TO THE ACTUAL LOCATION AND DEPTH OF ANY UTILITY AND SHALL BE LIABLE FOR ALL OR ANY DAMAGE.
6. ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.



CITY OF TORONTO NOTES:

7. ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
8. ATTENTION IS DIRECTED TO THE POSSIBILITY OF EXISTING PRIVATE SPRINKLERS AND LIGHTING SYSTEMS WITHIN THE RIGHT-OF-WAY, WHICH ARE NOT SHOWN ON THE PLANS. LOCATING, WORKING AROUND AND PROTECTING THESE SYSTEMS SHALL BE COMPLETED AT NO EXTRA COST TO THE CITY.
9. AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR A BEDDING MATERIAL IS TO BE EXTENDED FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
10. CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION BETWEEN NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 300mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS LESS THAN 300mm IN DIAMETER. MAINTAIN 600mm MINIMUM VERTICAL CLEARANCE BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS EQUAL TO OR GREATER THAN 300mm IN DIAMETER.
11. ALL EXISTING WATERMANS AND SEWER PIPES LARGER THAN 300mm DIAMETER SHALL BE SUPPORTED ACCORDING TO DRAWING T-1007.01-4.
12. ALL DIMENSIONS ARE EXPRESSED IN METRES (m) AND PIPE SIZES ARE EXPRESSED IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.

CONTRACT INFORMATION

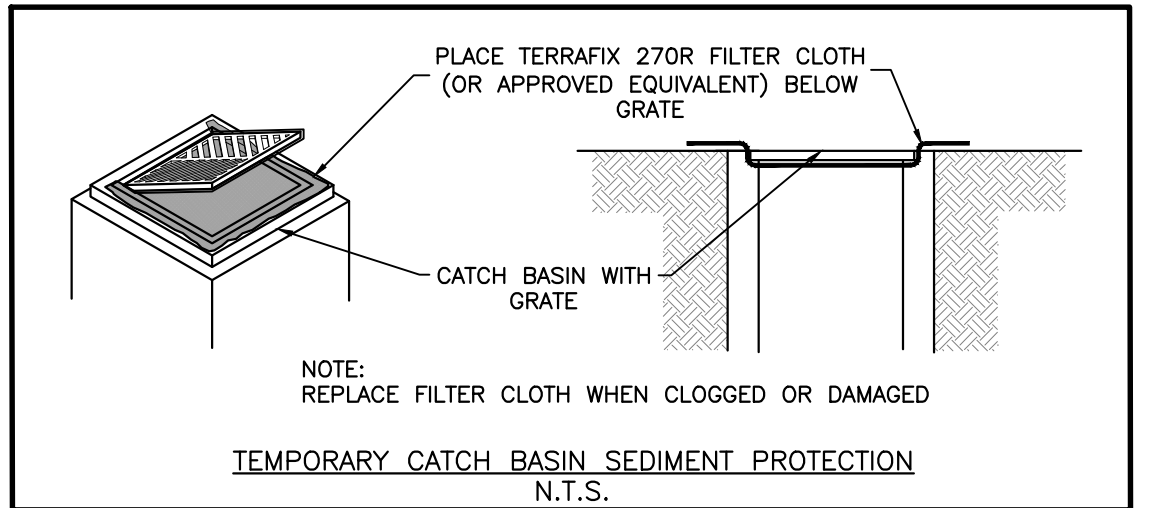
1. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR SHALL APPLY FOR A ROAD OCCUPANCY PERMIT FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT DISTRICT OFFICE.
2. ALL T/C TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION OF SERVICES. IN ORDER TO CO-ORDINATE ALL DISRUPTIONS IN SERVICE, CONTRACTOR TO CONTACT MS. EMILY ASSUNCAO (416-393-3302) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

ORIGINAL DATA SOURCE

1. SURVEY DATA DATED, AUGUST 09, 2021, BY LAND SURVEY GROUP (PLAN NO. LSG-5240).
2. LEGAL BOUNDARY OBTAINED FROM SURVEYS AND MAPPING BY C.E. DOTTERBILL, DATE JUNE 27TH, 2008, WHICH FORM PART OF THE TOPOGRAPHIC SURVEY BY LAND SURVEY GROUP (PLAN NO. LSG-5240).

EROSION AND SEDIMENT CONTROL NOTES:

1. EROSION AND SEDIMENT CONTROL (ESC) MEASURES WILL BE IMPLEMENTED PRIOR TO, AND MAINTAINED DURING CONSTRUCTION PHASES, TO PREVENT ENTRY OF SEDIMENT INTO THE MUNICIPAL SEWER SYSTEM. ALL DAMAGED EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE REPAIRED OR REPLACED WITHIN 48hrs OF INSPECTION OR BOTH.
2. ALL DISTURBED AREAS WILL BE MINIMIZED TO THE EXTENT POSSIBLE AND TEMPORARILY OR PERMANENTLY STABILIZED OR RESTORED AS THE WORK PROGRESSES.
3. THE EROSION AND SEDIMENT CONTROL STRATEGIES OUTLINED ON THE PLANS ARE NOT STATIC AND MAY NEED TO BE UPGRADED/AMENDED AS SITE CONDITIONS CHANGE TO MINIMIZE THE SEDIMENT LADEN RUNOFF FROM LEAVING THE WORK AREA. IF THE PRESCRIBED MEASURES ON THE PLANS ARE NOT EFFECTIVE IN PREVENTING THE RELEASE OF DELETERIOUS SUBSTANCES, THEN ALTERNATIVE MEASURES MUST BE IMPLEMENTED IMMEDIATELY TO MINIMIZE POTENTIAL ECOLOGICAL IMPACTS AND A TORONTO REGION CONSERVATION AUTHORITY ENFORCEMENT OFFICE SHOULD BE IMMEDIATELY CONTACTED. ADDITIONAL ESC MEASURES TO BE KEPT ON SITE AND USED AS NECESSARY.
4. ALL ACTIVITIES, INCLUDING MAINTENANCE PROCEDURES, WILL BE CONTROLLED TO PREVENT THE ENTRY OF PETROLEUM PRODUCTS, DEBRIS, RUBBLE, CONCRETE OR OTHER DELETERIOUS SUBSTANCES INTO THE MUNICIPAL SEWER SYSTEM. VEHICULAR REFUELING AND MAINTENANCE WILL BE CONDUCTED A MINIMUM 30M FROM DRAINS CONNECTED TO THE MUNICIPAL SEWER SYSTEM.
5. ALL GRADES WITHIN THE REGULATORY FLOODPLAIN WILL BE MAINTAINED OR MATCHED.

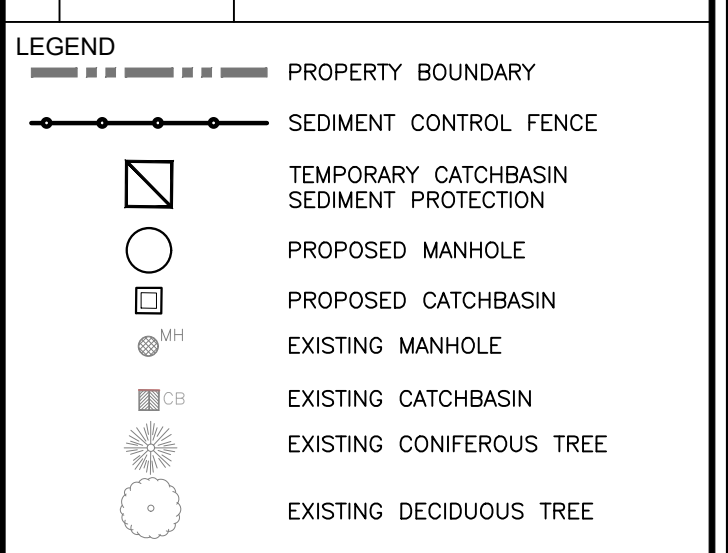


CITY OF TORONTO NOTES:

1. THE BUILDING STORM AND SANITARY SYSTEMS SHALL BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SEWER SURCHARGE CONDITIONS.
2. THE METHOD OF INSTALLATION OF THE PROPOSED SERVICE CONNECTIONS WILL BE AT THE DISCRETION OF THE TORONTO WATER.
3. EXISTING SERVICE CONNECTIONS NO LONGER IN USE SHALL BE DISCONNECTED BY TORONTO WATER AT THE OWNER'S COST.
4. THE LIMIT OF CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY ARE AT THE DISCRETION OF THE CITY INSPECTOR.
5. PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY THE CONTRACTOR, DEVELOPER, OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT.
6. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COMPLY WITH THE SEWER USE BY-LAW AND OBTAIN ALL APPROVALS/PERMITS FROM TORONTO WATER-ENVIRONMENTAL MONITORING & PROTECTION UNIT FOR ANY PROPOSED TEMPORARY OR PERMANENT DISCHARGING OF PRIVATE WATER INTO MUNICIPAL SEWER SYSTEMS AND WATERCOURSES. THE APPLICANT IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT, CONSERVATION & PARKS, WITH REGARD TO ANY PROPOSED DEWATERING AND MITIGATING AND MANAGING EITHER ON-SITE OR OFF-SITE OF ANY PRIVATE WATER ENCOUNTERED DURING CONSTRUCTION.
7. IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE COMPLIANCE WITH ALL APPLICABLE PROVINCIAL STANDARDS, AND TO OBTAIN ALL PROVINCIAL APPROVALS, INCLUDING BUT NOT LIMITED TO ENVIRONMENTAL COMPLIANCE APPROVAL.
8. THE SIGNED ACCEPTANCE BY ENGINEERING AND CONSTRUCTION SERVICES PERTAINS TO THE SERVICE CONNECTIONS LOCATED WITHIN THE MUNICIPAL RIGHT OF WAY.



No.	DATE	REVISION / ISSUED NOTE
1.	OCT. 19, 2021	ISSUED FOR SITE PLAN APPROVAL
2.	AUG. 17, 2022	ISSUED FOR SITE PLAN APPROVAL
3.	MAR. 22, 2023	REISSUED FOR SITE PLAN APPROVAL
4.	JUN. 15, 2023	REISSUED FOR SITE PLAN APPROVAL
5.	FEB. 01, 2024	REISSUED FOR SITE PLAN APPROVAL
6.	APR. 01, 2024	REISSUED FOR SITE PLAN APPROVAL
7.	MAY 30, 2024	ISSUED FOR BUILDING PERMIT
8.	SEP. 11, 2024	ISSUED FOR TENDER



BENCHMARK:

ELEVATIONS SHOWN HEREON ARE GEODETIC AND IN METRES AND ARE RELATED TO CITY OF TORONTO BENCH MARK N12219740600 HAVING A PUBLISHED ELEVATION OF 106.917 (CGVD-1928:PRE-1978), METRES

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF GRACE STREET HAVING A BEARING OF N 16° 00' 00" W AS SHOWN ON REGISTERED PLAN 748.

TOPOGRAPHIC SURVEY PROVIDED BY LAND SURVEY GROUP, PLAN NO. LSG-5240.

CONSULTANTS:

MGM CONSULTING INC
Consulting Engineering & Project Management
555 Innesville Drive, Suite 201, Mississauga, Ontario L4T 5E1
Tel: (905) 887-8878 Fax: (905) 875-1339
Email: mgm@mgtinc.com www.mgtinc.com

CLIENT:

Conseil scolaire Viamonde

PROJECT:

DAYCARE ADDITION TO ECOLE ELEMENTAIRE PIERRE ELLIOT TRUDEAU
65 GRACE STREET, TORONTO, ONTARIO

DRAWING:

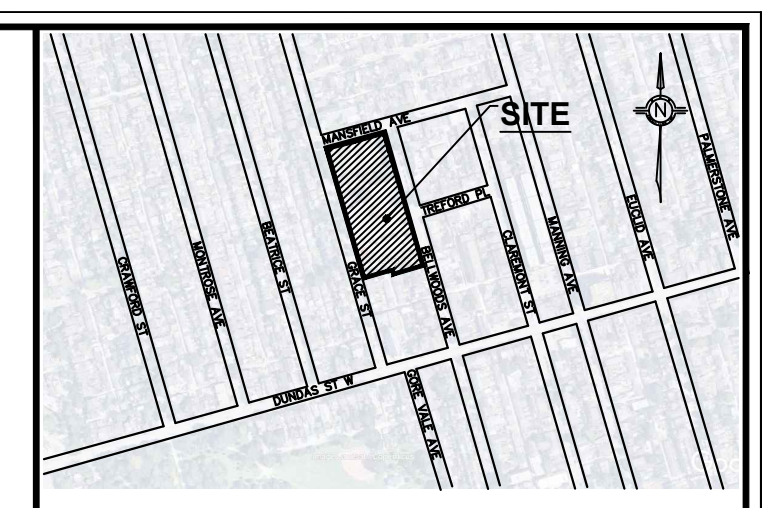
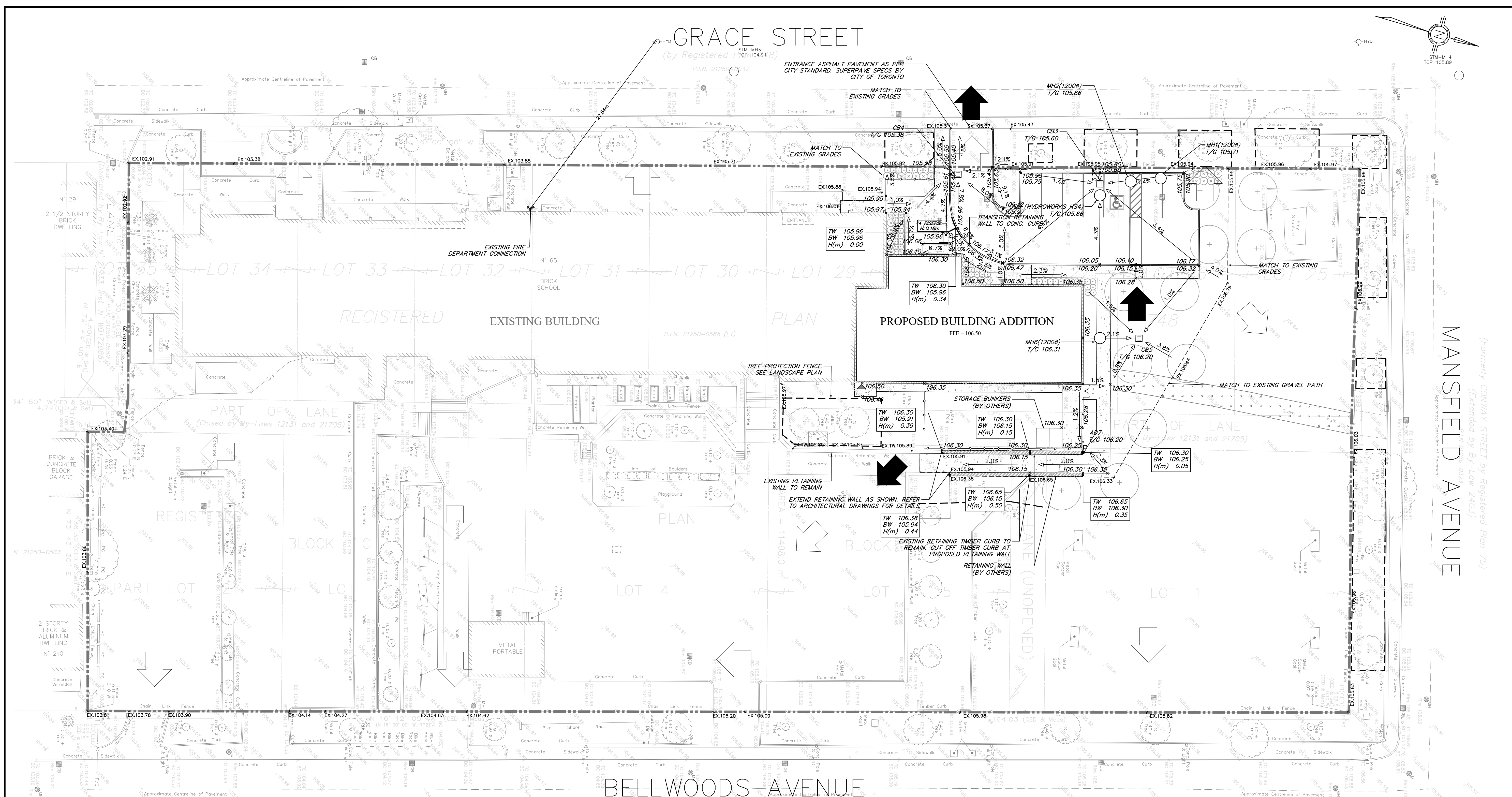
EROSION AND SEDIMENT CONTROL PLAN

DRAWN BY: ML	CHECKED BY: CS	JOB CAPTAIN: MS
SCALE: 1:250	PROJECT NO.: 2021-019	DATE: JUNE 2023
CURRENT ISSUE: 8	CURRENT REV: 1	SHEET NO.: CV-1

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, DEVELOPMENT ENGINEERING, CITY OF TORONTO

DATE: _____



KEYMAP - NTS

No.	DATE	REVISION / ISSUED NOTE
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LEGEND

	PROPERTY BOUNDARY
	PROPOSED SLOPE
	PROPOSED ELEVATION
	PROPOSED MANHOLE
	PROPOSED CATCHBASIN
	EXISTING ELEVATION
	EXISTING ELEVATION (INTERPOLATED)
	EXISTING MANHOLE
	EXISTING CATCHBASIN
	EXISTING CONIFEROUS TREE
	EXISTING DECIDUOUS TREE
	EXISTING OVERLAND FLOW
	PROPOSED OVERLAND FLOW

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ELEVATIONS SHOWN HEREON ARE GEODETIC AND IN METRES AND ARE RELATED TO CITY OF TORONTO BENCH MARK N12219740600 HAVING A PUBLISHED ELEVATION OF 106.917 (CGVD-1928:PRE-1978), METRES

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TOPOGRAPHIC SURVEY PROVIDED BY LAND SURVEY GROUP, PLAN NO. LSG-5240.



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Consulting Engineering & Project Management
655 Innesville Drive, Suite 201, Mississauga, Ontario L4T 5E1
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Email: mgm@mgtm.com.ca www.mgtm.com.ca

CLIENT:

Conseil scolaire Viamonde

PROJECT:
DAYCARE ADDITION TO ECOLE ELEMENTAIRE PIERRE ELLIOT TRUDEAU
65 GRACE STREET, TORONTO, ONTARIO

DRAWING: **GRADING PLAN**

DRAWN BY: ML	CHECKED BY: CS	JOB CAPTAIN: MS
SCALE: 1:250	PROJECT NO.: 2021-019	DATE: JUNE 2023
CURRENT ISSUE: 8	CURRENT REV: 1	SHEET NO.: CV-2

CITY OF TORONTO NOTES:
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- ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.

- ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
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- AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR BEDDING MATERIAL IS TO EXTEND FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION BETWEEN NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 300mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS LESS THAN 300mm IN DIAMETER. MAINTAIN 600mm MINIMUM VERTICAL CLEARANCE BETWEEN THE WATERMAIN AND EXISTING GAS MAINS EQUAL TO OR GREATER THAN 300mm IN DIAMETER.
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CONTACT INFORMATION

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- ALL TTC TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION OF SERVICES. IN ORDER TO CO-ORDINATE ALL DISRUPTIONS IN SERVICE, CONTRACTOR TO CONTACT MRS. EMILY ASSUNCAO (416-393-3302) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

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- LEGAL BOUNDARY OBTAINED FROM SURVEYS AND MAPPING BY C.E. DOTTERILL, DATE JUNE 27TH, 2008, WHICH FORM PART OF THE TOPOGRAPHIC SURVEY BY LAND SURVEY GROUP (PLAN NO. LSG-5240).

ROAD RECONSTRUCTION

- RECONSTRUCTION OF DRIVEWAY ENTRANCES SHALL BE ACCORDING TO T-310.050-8.
- LIMITS OF SIDEWALK/CURB RECONSTRUCTION ARE APPROXIMATE, ACTUAL LIMITS ARE TO BE CONFIRMED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- HEIGHT OF CURB FACES MAY VARY ALONG LENGTH OF GUTTER, AS SHOWN ON PROFILE, OR TO BE CONFIRMED IN THE FIELD.
- ADJUST ALL STRUCTURES (MAINTENANCE HOLES, CATCH BASINS, ETC.) TO SUIT NEW DESIGN ELEVATIONS INCLUDING BREAKING DOWN AND REMOVAL OF PORTION OF TOP OF STRUCTURES TO ALLOW FOR MINIMUM 150mm ADJUSTMENT UNITS.
- ALL CURBS SHALL BE CONSTRUCTED WITH A LEDGE AT THE BACK OF THE CURB TO FACILITATE FUTURE SIDEWALK CONSTRUCTION.
- FULL DEPTH SAW-CUTS ARE REQUIRED AT CONSTRUCTION LIMITS OF EXISTING CURB, SIDEWALK AND PAVEMENT UNLESS OTHERWISE SHOWN.
- SAW CUT EXISTING PAVEMENT, SIDEWALK, CURB, GUTTER, DRIVEWAYS, WALKWAYS, ETC. AT CONSTRUCTION LIMITS TO PROVIDE A CLEAN JOINT FOR THE PROPOSED WORK.
- CONSTRUCT PEDESTRIAN SIDEWALK RAMPS WITH TACTILE WALKING SURFACE INDICATORS ACCORDING TO T-310.030-7, T-310.030-8, T-310.050-9, T-310.050-10, AND T-310.050-11.
- EXISTING ENTRANCE RAMPS TO BE RE-INSTALLED. VEHICULAR SIDEWALK RAMP SHALL BE ACCORDING TO T-310.050-1.
- ADJUSTMENT OF APPROACHES, WALKWAYS AND STEPS MAY BE REQUIRED. LIMITS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACT ADMINISTRATOR.
- EXISTING ASPHALT THICKNESS MAY VARY, TAPER TO MATCH EXISTING AT CONSTRUCTION LIMITS (MINIMUM 2.0m).
- FILTER FABRIC TO BE PLACED UNDER GRATES ON ALL CATCH BASINS TO TRAP SEDIMENT. SILT TRAPS ARE TO BE CLEANED REGULARLY AND ARE NOT TO BE REMOVED UNTIL SUCH TIME AS THE CURBS ARE CONSTRUCTED AND THE BOULEVARDS ARE SODDED OR BACKYARDS GRADED AND SODDED. FILTER FABRIC FOR SILT CONTROL TO BE TERRA FIX 270R OR APPROVED EQUIVALENT.

CITY OF TORONTO NOTES:

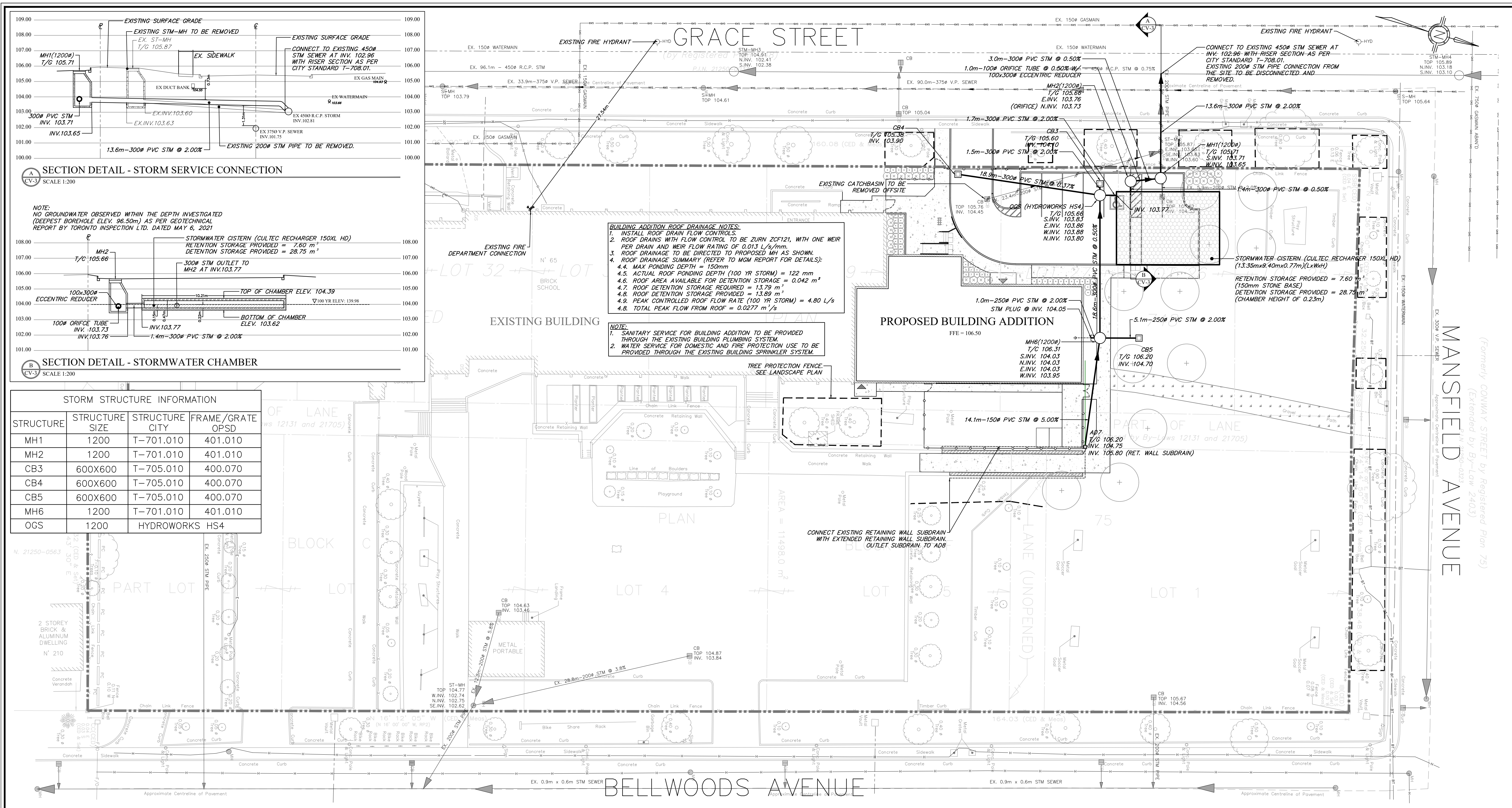
- THE OWNER IS REQUIRED TO INSTALL AND MAINTAIN A PREMISE ISOLATION DEVICE FOR ALL APPLICABLE WATER SERVICE IN ACCORDANCE WITH TORONTO MUNICIPAL CODE, CHAPTER B51 WATER SUPPLY, THE BUILDING CODE AND CSA B64 SERIES STANDARD.
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- THE LIMIT OF CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY ARE AT THE DISCRETION OF THE CITY INSPECTOR.
- PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY THE CONTRACTOR, DEVELOPER, OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT.
- IT IS THE RESPONSIBILITY OF THE APPLICANT TO COMPLY WITH THE SEWER USE BY-LAW AND OBTAIN ALL APPROVALS/PERMITS FROM TORONTO WATER-ENVIRONMENTAL MONITORING & PROTECTION UNIT FOR ANY PROPOSED TEMPORARY OR PERMANENT DISCHARGING OF PRIVATE WATER INTO MUNICIPAL SEWER SYSTEMS AND WATERCOURSES. THE APPLICANT IS ALSO RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT, CONSERVATION & PARKS, WITH REGARD TO ANY PROPOSED DEWATERING AND MITIGATING AND MANAGING EITHER ON-SITE OR OFF-SITE OF ANY PRIVATE WATER ENCOUNTERED DURING CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE APPLICANT TO ENSURE COMPLIANCE WITH ALL APPLICABLE PROVINCIAL STANDARDS AND TO OBTAIN ALL PROVINCIAL APPROVALS, INCLUDING BUT NOT LIMITED TO ENVIRONMENTAL COMPLIANCE APPROVAL.
- THE SIGNED ACCEPTANCE BY ENGINEERING AND CONSTRUCTION SERVICES PERTAINS TO THE SERVICE CONNECTIONS LOCATED WITHIN THE MUNICIPAL RIGHT OF WAY.

Toronto ENGINEERING AND CONSTRUCTION SERVICES DIVISION

ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

MANAGER, DEVELOPMENT ENGINEERING, CITY OF TORONTO

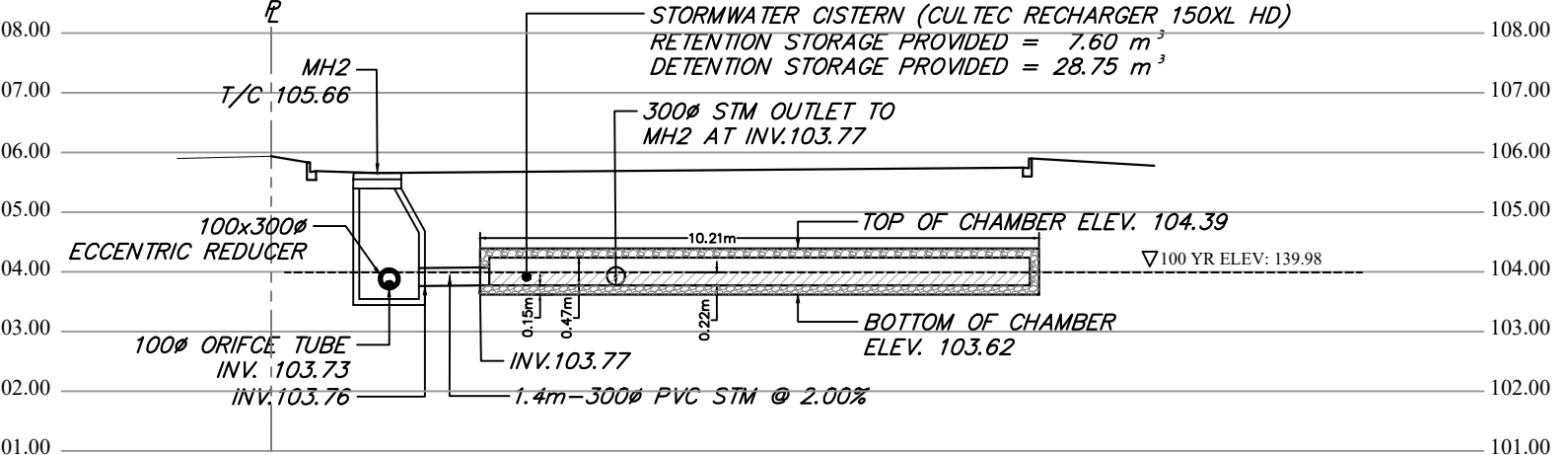
DATE: _____



SECTION DETAIL - STORM SERVICE CONNECTION



NOTE: NO GROUNDWATER OBSERVED WITHIN THE DEPTH INVESTIGATED (DEEPEST BOREHOLE ELEV. 96.50m) AS PER GEOTECHNICAL REPORT BY TORONTO INSPECTION LTD. DATED MAY 6, 2021



SECTION DETAIL - STORMWATER CHAMBER

STORM STRUCTURE INFORMATION

STRUCTURE	STRUCTURE SIZE	STRUCTURE CITY	FRAME/GRATE OPD
MH1	1200	T-701.010	401.010
MH2	1200	T-701.010	401.010
CB3	600X600	T-705.010	400.070
CB4	600X600	T-705.010	400.070
CB5	600X600	T-705.010	400.070
MH6	1200	T-701.010	401.010
OGS	1200	HYDROWORKS HS4	

BUILDING ADDITION ROOF DRAINAGE NOTES:

- INSTALL ROOF DRAIN FLOW CONTROLS
- ROOF DRAINS WITH FLOW CONTROL TO BE ZURN ZCF121, WITH ONE WEIR PER DRAIN AND WEIR FLOW RATING OF 0.013 L/s/mm.
- ROOF DRAINAGE TO BE DIRECTED TO PROPOSED MH AS SHOWN.
- ROOF DRAINAGE SUMMARY (REFER TO MCM REPORT FOR DETAILS):
- MAX PONDING DEPTH = 150mm
- ACTUAL ROOF PONDING DEPTH (100 YR STORM) = 122 mm
- ROOF AREA AVAILABLE FOR DETENTION STORAGE = 0.042 m²
- ROOF DETENTION STORAGE REQUIRED = 13.79 m³
- ROOF DETENTION STORAGE PROVIDED = 13.89 m³
- PEAK CONTROLLED ROOF FLOW RATE (100 YR STORM) = 4.80 L/s
- TOTAL PEAK FLOW FROM ROOF = 0.0277 m³/s

NOTE:

- SANITARY SERVICE FOR BUILDING ADDITION TO BE PROVIDED THROUGH THE EXISTING BUILDING PLUMBING SYSTEM.
- WATER SERVICE FOR DOMESTIC AND FIRE PROTECTION USE TO BE PROVIDED THROUGH THE EXISTING BUILDING SPRINKLER SYSTEM.

CITY OF TORONTO NOTES:

LEGISLATION, REGULATION AND CODES

- ALL WORK WITHIN THE CITY RIGHT-OF-WAY SHALL BE CONSTRUCTED ACCORDING TO THE LATEST CITY OF TORONTO STANDARD DRAWINGS AND SPECIFICATION. ONTARIO PROVINCIAL STANDARD DRAWINGS AND SPECIFICATIONS MAY BE SUBJECT TO THE APPROVAL OF THE CITY OF TORONTO, TO BE USED WHERE NO CITY STANDARD OR SPECIFICATION IS AVAILABLE.
- ALL WORK SHALL BE COMPLETED ACCORDING TO THE CURRENT OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS. THE GENERAL CONTRACTOR SHALL BE DEEMED TO BE THE CONSTRUCTOR AS DEFINED IN THE ACT.
- ALL TEMPORARY TRAFFIC CONTROL AND SIGNAGE DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT ONTARIO TRAFFIC MANUAL BOOK 7: TEMPORARY CONDITIONS FIELD EDITION.

CONSTRUCTION NOTES

- ALL MATERIAL FOR SEWER, FORCEMAIN, WATERMAIN, HYDRANTS AND APPURTENANCES, SHALL BE ACCORDING TO CITY OF TORONTO MATERIAL/MANUFACTURER SPECIFICATIONS AS REQUIRED BY CHAPTER 6, MATERIAL SPECIFICATIONS FROM DESIGN CRITERIA FOR SEWERS AND WATERMAINS MANUAL.
- UTILITY SEPARATION SHALL BE ACCORDING TO APPENDIX 'D' OF THE CITY OF TORONTO DESIGN CRITERIA FOR SEWERS AND WATERMAINS MANUAL.
- SERVICE CONNECTIONS AND UTILITY CUTS MADE IN ROAD PAVEMENTS SHALL BE BACKFILLED WITH UNSHRINKABLE FILL ACCORDING TO TS 4.60.

CITY OF TORONTO NOTES:

- ALL AREAS DISTURBED DURING CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY SHALL BE RESTORED TO ORIGINAL, OR BETTER CONDITION AND TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR. GRASS AREAS SHALL BE TREATED WITH 100mm OF TOPSOIL AND SHALL BE SODDED ACCORDING TO TS 5.00 AND TS 5.10.
- ALL EXISTING UTILITIES SHOWN ON DRAWINGS ARE FOR REFERENCE PURPOSES ONLY. THE CONTRACTOR SHALL SAFELY THEMSELVES AS TO THE ACTUAL LOCATION AND DEPTH OF ANY UTILITY AND SHALL BE LIABLE FOR ALL OR ANY DAMAGE.
- ANY DISCREPANCIES BETWEEN SITE CONDITIONS AND CONSTRUCTION DRAWINGS MUST BE REPORTED TO THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION AND APPROPRIATE ACTION TAKEN TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
- ALL SURVEY STAKE LAYOUT POINTS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE LAYOUT SHALL BE IMMEDIATELY REPORTED TO THE CITY.
- ATTENTION IS DIRECTED TO THE POSSIBILITY OF EXISTING PRIVATE SPRINKLERS AND LIGHTING SYSTEMS WITHIN THE RIGHT-OF-WAY, WHICH ARE NOT SHOWN ON THE PLANS. LOCATING, WORKING AROUND AND PROTECTING THESE SYSTEMS SHALL BE COMPLETED AT NO EXTRA COST TO THE CITY.
- AT ALL LOCATIONS WHERE THE PROPOSED WATERMAIN CROSSES UNDER OR ABOVE THE EXISTING SEWERS, OR UTILITIES, GRANULAR A BEDDING MATERIAL IS TO BE EXTENDED FROM THE LOWER PIPE TO THE TOP OF THE UPPER PIPE. GRANULAR A TO BE COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- CONTRACTOR TO PROVIDE ADEQUATE SUPPORT DURING CONSTRUCTION BETWEEN NEW WATERMAIN AND EXISTING GAS MAINS. MAINTAIN 300mm MINIMUM VERTICAL CLEARANCES BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS LESS THAN 300mm IN DIAMETER. MAINTAIN 600mm

MINIMUM VERTICAL CLEARANCE BETWEEN THE NEW WATERMAIN AND EXISTING GAS MAINS EQUAL TO OR GREATER THAN 300mm IN DIAMETER.

- ALL EXISTING WATERMAINS AND SEWER PIPES LARGER THAN 300mm DIAMETER SHALL BE SUPPORTED ACCORDING TO DRAWING T-1007.01-4.
- ALL DIMENSIONS ARE EXPRESSED IN METRES (m) AND PIPE SIZES ARE EXPRESSED IN MILLIMETRES (mm) UNLESS OTHERWISE NOTED.

CONTACT INFORMATION

- PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY, THE CONTRACTOR SHALL APPLY FOR A ROAD OCCUPANCY PERMIT FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT DISTRICT OFFICE.
- ALL TTC TRAFFIC IS TO BE MAINTAINED DURING CONSTRUCTION OF SERVICES. IN ORDER TO CO-ORDINATE ALL DISRUPTIONS IN SERVICE, CONTRACTOR TO CONTACT MS. EMILY ASSUNCAO (416-393-3302) AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

ORIGINAL DATA SOURCE

- SURVEY DATA DATED, AUGUST 09, 2021.
- LEGAL BOUNDARY OBTAINED FROM SURVEYS AND MAPPING BY C.E. DOTTERLIL, DATE JUNE 27TH, 2008.

STORM SEWERS

- MAIN LINE PVC PIPE SHALL BE DR 35.
- EMBEDMENT MATERIAL FOR FLEXIBLE PIPE SHALL BE ACCORDING TO OPSD 802.010 AND USING GRANULAR A BEDDING MATERIAL ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- BEDDING FOR RIGID PIPE SHALL BE CLASS B BEDDING MATERIAL ACCORDING TO OPSD 802.031 AND USING GRANULAR A BEDDING MATERIAL ACCORDING TO TS 1010 AND COMPACTED TO MINIMUM 98% OF MAXIMUM DRY DENSITY.
- ULTRA-RIB PIPE IS NOT PERMITTED WITHIN THE MUNICIPAL RIGHT-OF-WAY.
- MAINTENANCE HOLES SHALL BE ACCORDING TO T-701.010 (1200mm), T-701.011 (1500mm), T-701.012 (1800mm), OR T-701.013 (2400mm). FRAME AND COVER SHALL BE ACCORDING TO OPSD 401.010 TYPE A CLOSED (SANITARY AND STORM).
- MAINTENANCE HOLE CHAMBER OPENINGS MUST BE LOCATED ON THE UPSTREAM SIDE OF THE MAINTENANCE HOLE.
- BENCHING DETAILS SHALL BE ACCORDING TO T-701.021 OR AS SHOWN ON THE DRAWING.
- DROP STRUCTURE SHALL BE ACCORDING TO T-1003.01 (EXTERNAL) AND T-1003.01-2 (INTERNAL).
- SANITARY MAINTENANCE HOLES SHALL HAVE WATERTIGHT FRAMES AND COVERS IN PONDING AREAS ACCORDING TO OPSD 401.030.
- REINFORCED CONCRETE PIPE SHALL BE MINIMUM 65-D. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLES 807.010 AND 807.030.

NON-REINFORCED CONCRETE PIPE 150mm TO 250mm SHALL BE CLASS 3. HEIGHT OF FILL TO BE VERIFIED USING OPSD TABLE 807.040.

- SINGLE CATCH BASINS SHALL BE ACCORDING TO T-705.010 COMPLETE WITH GOSB TRAP, WHERE SPECIFIED. FRAME AND COVER SHALL BE ACCORDING TO OPSD 400.070.
- DOUBLE CATCHBASINS SHALL BE ACCORDING TO T-705.020 COMPLETE WITH GOSB TRAP, WHERE SPECIFIED.
- CATCHBASIN LEADS TO BE 250mm PVC DR 35 FOR SINGLE CATCHBASINS AND 300mm PVC DR35 FOR DOUBLE CATCHBASINS.
- CONNECTION DETAIL FOR SEWER PIPE AT CATCHBASINS AND MAINTENANCE HOLES SHALL BE ACCORDING TO T-708.020.

CITY OF TORONTO NOTES:

- THE BUILDING STORM AND SANITARY SYSTEMS SHALL BE DESIGNED TO BE ABLE TO OPERATE UNDER MUNICIPAL SEWER SURCHARGE CONDITIONS.
- THE METHOD OF INSTALLATION OF THE PROPOSED SERVICE CONNECTIONS WILL BE AT THE DISCRETION OF THE TORONTO WATER.
- EXISTING SERVICE CONNECTIONS NO LONGER IN USE SHALL BE DISCONNECTED BY TORONTO WATER AT THE OWNER'S COST.
- THE LOCATION OF THE WATER METER SHALL BE TO TORONTO WATER'S SATISFACTION.
- THE LIMIT OF CONSTRUCTION WITHIN THE CITY'S RIGHT-OF-WAY ARE AT THE DISCRETION OF THE CITY INSPECTOR.
- PRIOR TO COMMENCING ANY WORK WITHIN THE MUNICIPAL RIGHT-OF-WAY THE CONTRACTOR, DEVELOPER, OR CONSULTANT WILL OBTAIN ALL NECESSARY ROAD OCCUPANCY PERMITS FROM THE CITY'S RIGHT-OF-WAY MANAGEMENT UNIT.
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RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE PROVINCIAL REQUIREMENTS AND OBTAINING THE NECESSARY APPROVALS AND/OR PERMITS FROM THE MINISTRY OF THE ENVIRONMENT, CONSERVATION & PARKS, WITH REGARD TO ANY PROPOSED DEWATERING AND MITIGATING AND MANAGING EITHER ON-SITE OR OFF-SITE OF ANY PRIVATE WATER ENCOUNTERED DURING CONSTRUCTION.

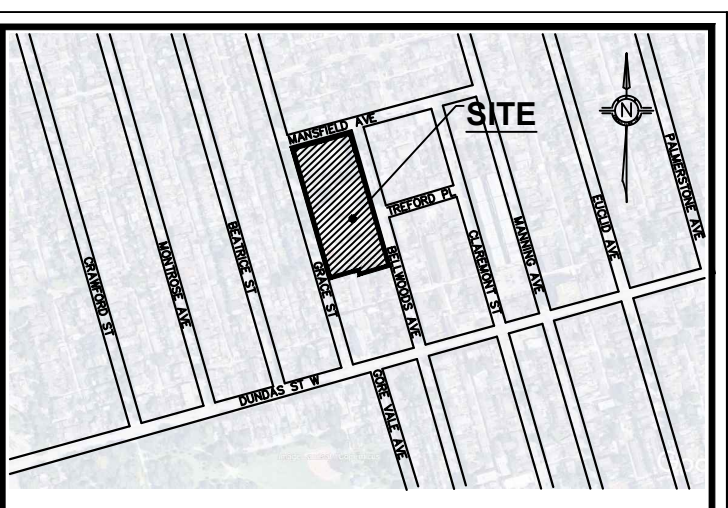
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ACCEPTED TO BE IN ACCORDANCE WITH THE CITY OF TORONTO STANDARDS. THIS ACCEPTANCE IS NOT TO BE CONSTRUED AS VERIFICATION OF ENGINEERING CONTENT.

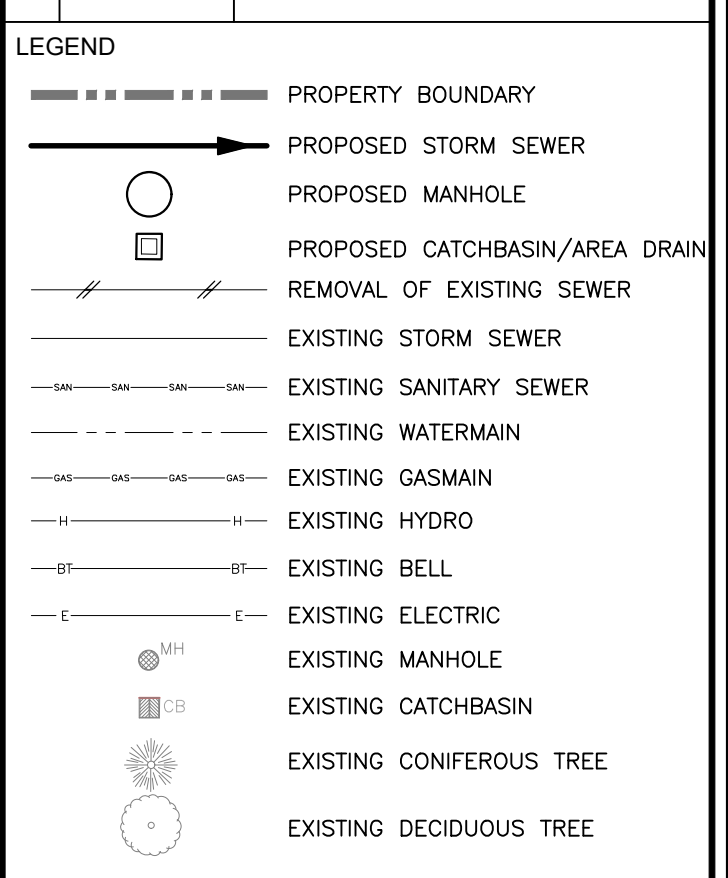
MANAGER, DEVELOPMENT ENGINEERING, CITY OF TORONTO

DATE: _____



KEYMAP - NTS

No.	DATE	REVISION / ISSUED NOTE
1.	OCT. 19, 2021	ISSUED FOR SITE PLAN APPROVAL
2.	AUG. 17, 2022	ISSUED FOR SITE PLAN APPROVAL
3.	MAR. 22, 2023	REISSUED FOR SITE PLAN APPROVAL
4.	JUN. 15, 2023	REISSUED FOR SITE PLAN APPROVAL
5.	FEB. 01, 2024	REISSUED FOR SITE PLAN APPROVAL
6.	APR. 01, 2024	REISSUED FOR SITE PLAN APPROVAL
7.	MAY 30, 2024	ISSUED FOR BUILDING PERMIT
8.	SEP. 11, 2024	ISSUED FOR TENDER



BENCHMARK:

ELEVATIONS SHOWN HEREON ARE GEODETIC AND IN METRES AND ARE RELATED TO CITY OF TORONTO BENCH MARK #1221974060 HAVING A PUBLISHED ELEVATION OF 106.917 (CGVD-1928:PRE-1978), METRES

BEARINGS ARE ASTRONOMIC AND ARE REFERRED TO THE EASTERLY LIMIT OF GRACE STREET HAVING A BEARING OF N 16° 00' 00" W AS SHOWN ON REGISTERED PLAN 748.

TOPOGRAPHIC SURVEY PROVIDED BY LAND SURVEY GROUP, PLAN NO. LSG-5240.



CONSULTANTS:

MGM CONSULTING INC

Consulting Engineering & Project Management
555 Innesville Drive
Suite 201
Mississauga, Ontario
L4T 1S1

Tel: (905) 887-8878
Fax: (905) 875-1339
Email: mgm@mgm.ca
www.mgm.ca



PROJECT:

DAYCARE ADDITION TO ECOLE ELEMENTAIRE PIERRE ELLIOT TRUDEAU

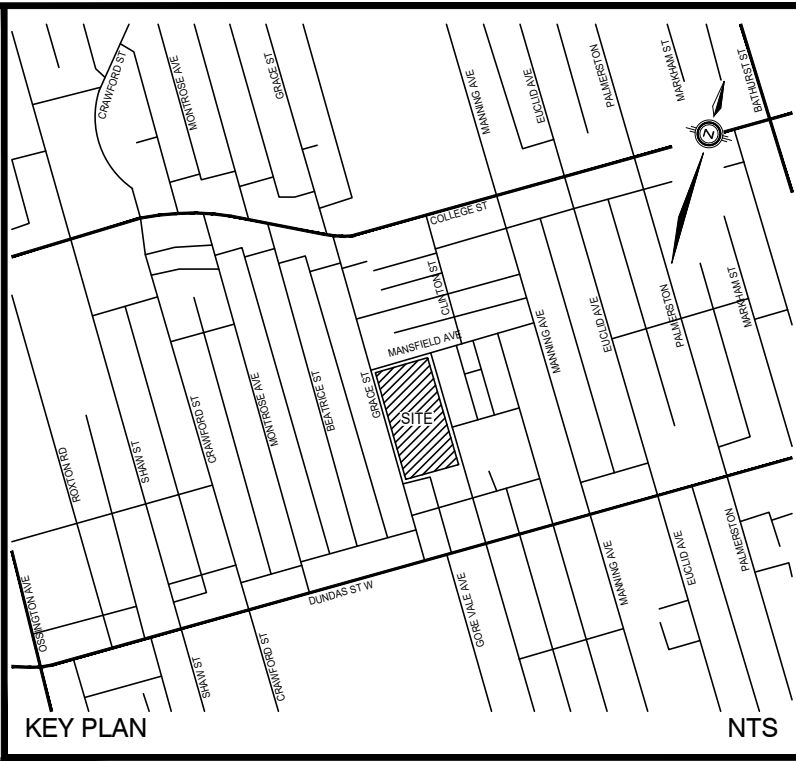
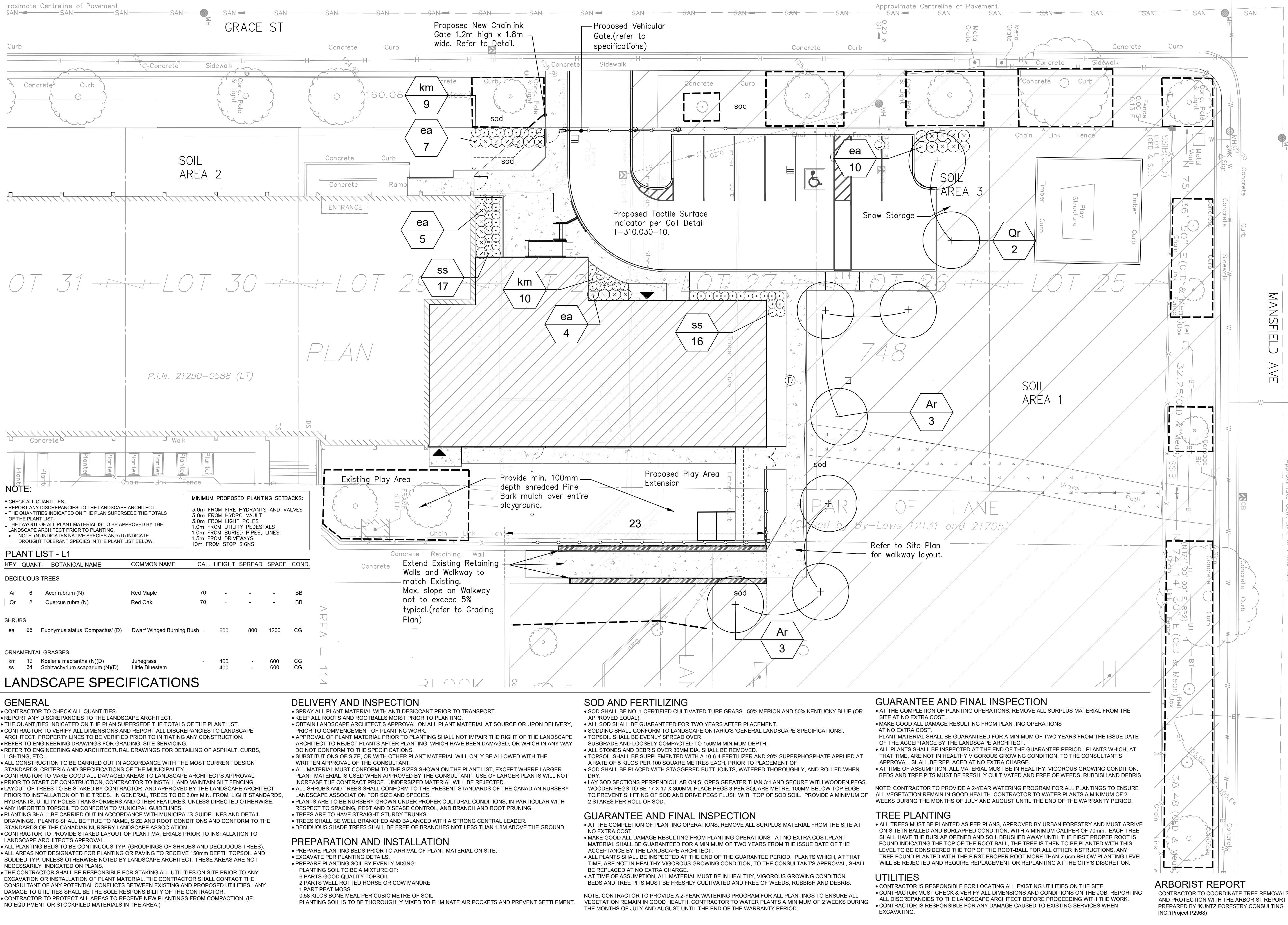
85 GRACE STREET, TORONTO, ONTARIO

SITE SERVICING PLAN

DRAWN BY:	CHECKED BY:	JOB CAPTAIN:
ML	CS	MS
SCALE:	PROJECT NO.:	DATE:
1:250	2021-019	JUNE 2023
CURRENT ISSUE:	CURRENT REV:	SHEET NO.:
8	1	CV-3

(by Registered Plan 748)

P.I.N. 21250-0037



- LEGEND**
- Proposed Deciduous Tree
 - Proposed Shrub and Ornamental Grass Planting
 - Proposed Tree Protection Fence (TPF) (refer to Arborist Report)

NOT FOR CONSTRUCTION

No.	REVISIONS TO DRAWING	DATE
6	ISSUED FOR TENDER	SEPT 11, 2024
5	UPDATE TPF PER CITY	May 24, 2024
4	RE-ISSUED FOR SPA	Mar 20, 2024
3	RE-ISSUED FOR SPA	Feb 20, 2023
2	RE-ISSUED FOR SPA	Aug 09, 2022
1	ISSUED FOR SPA	Oct 19, 2021

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

PROJECT TITLE
DAYCARE ADDITION TO
ECOLE ELEMENTAIRE
PIERRE ELLIOT TRUDEAU

MUNICIPALITY
TORONTO, ONTARIO

PROJECT ADDRESS
65 GRACE STREET
TORONTO, ONTARIO

SHEET TITLE
LANDSCAPE LAYOUT PLAN

CONSULTANT

STAMP

SCALE	DATE	PROJECT NUMBER
1:150	23 SEPT 2021	202103
DESIGNED	DRAWN	CHECKED
LSN	LSN	LSN
DWG. NUMBER	L1	

NOTE:

- CHECK ALL QUANTITIES
- REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- THE QUANTITIES INDICATED ON THE PLAN SUPERSEDE THE TOTALS OF THE PLANT LIST.
- THE LAYOUT OF ALL PLANT MATERIAL IS TO BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO PLANTING.
- NOTE: (N) INDICATES NATIVE SPECIES AND (D) INDICATE DROUGHT TOLERANT SPECIES IN THE PLANT LIST BELOW.

MINIMUM PROPOSED PLANTING SETBACKS:

3.0m	FROM FIRE HYDRANTS AND VALVES
3.0m	FROM HYDRO VAULT
3.0m	FROM LIGHT POLES
1.0m	FROM UTILITY PEDESTALS
1.0m	FROM BURIED PIPES, LINES
1.5m	FROM DRIVEWAYS
10m	FROM STOP SIGNS

PLANT LIST - L1

KEY	QUANT.	BOTANICAL NAME	COMMON NAME	CAL.	HEIGHT	SPREAD	SPACE	COND.
DECIDUOUS TREES								
Ar	6	Acer rubrum (N)	Red Maple	70	-	-	-	BB
Qr	2	Quercus rubra (N)	Red Oak	70	-	-	-	BB
SHRUBS								
ea	26	Euonymus alatus 'Compactus' (D)	Dwarf Winged Burning Bush	-	600	800	1200	CG
ORNAMENTAL GRASSES								
km	19	Koeleria macrantha (N)(D)	Junegrass	-	400	-	600	CG
ss	34	Schizachyrium scapanium (N)(D)	Little Bluestem	-	400	-	600	CG

LANDSCAPE SPECIFICATIONS

GENERAL

- CONTRACTOR TO CHECK ALL QUANTITIES
- REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
- THE QUANTITIES INDICATED ON THE PLAN SUPERSEDE THE TOTALS OF THE PLANT LIST.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND REPORT ALL DISCREPANCIES TO LANDSCAPE ARCHITECT. PROPERTY LINES TO BE VERIFIED PRIOR TO INITIATING ANY CONSTRUCTION.
- REFER TO ENGINEERING DRAWINGS FOR GRADING, SITE SERVICING.
- REFER TO ENGINEERING AND ARCHITECTURAL DRAWINGS FOR DETAILING OF ASPHALT, CURBS, LIGHTING, ETC.
- ALL CONSTRUCTION TO BE CARRIED OUT IN ACCORDANCE WITH THE MOST CURRENT DESIGN STANDARDS, CRITERIA AND SPECIFICATIONS OF THE MUNICIPALITY.
- CONTRACTOR TO MAKE GOOD ALL DAMAGED AREAS TO LANDSCAPE ARCHITECT'S APPROVAL.
- PRIOR TO START OF CONSTRUCTION, CONTRACTOR TO INSTALL AND MAINTAIN SILT FENCING.
- LAYOUT OF TREES TO BE STAKED BY CONTRACTOR, AND APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION OF THE TREES. IN GENERAL, TREES TO BE 3.0m MIN. FROM LIGHT STANDARDS, HYDRANTS, UTILITY POLES TRANSFORMERS AND OTHER FEATURES, UNLESS DIRECTED OTHERWISE.
- ANY IMPORTED TOPSOIL TO CONFORM TO MUNICIPAL GUIDELINES.
- PLANTING SHALL BE CARRIED OUT IN ACCORDANCE WITH MUNICIPAL'S GUIDELINES AND DETAIL DRAWINGS. PLANTS SHALL BE TRUE TO NAME, SIZE AND ROOT CONDITIONS AND CONFORM TO THE STANDARDS OF THE CANADIAN NURSERY LANDSCAPE ASSOCIATION.
- CONTRACTOR TO PROVIDE STAKED LAYOUT OF PLANT MATERIALS PRIOR TO INSTALLATION TO LANDSCAPE ARCHITECT'S APPROVAL.
- ALL PLANTING BEDS TO BE CONTINUOUS TYP. (GROUPINGS OF SHRUBS AND DECIDUOUS TREES).
- ALL AREAS NOT DESIGNATED FOR PLANTING OR PAVING TO RECEIVE 150mm DEPTH TOPSOIL AND SODDED TYP. UNLESS OTHERWISE NOTED BY LANDSCAPE ARCHITECT. THESE AREAS ARE NOT NECESSARILY INDICATED ON PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR STAKING ALL UTILITIES ON SITE PRIOR TO ANY EXCAVATION OR INSTALLATION OF PLANT MATERIAL. THE CONTRACTOR SHALL CONTACT THE CONSULTANT OF ANY POTENTIAL CONFLICTS BETWEEN EXISTING AND PROPOSED UTILITIES. ANY DAMAGE TO UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR TO PROTECT ALL AREAS TO RECEIVE NEW PLANTINGS FROM COMPACTION. (IE. NO EQUIPMENT OR STOCKPILED MATERIALS IN THE AREA.)

DELIVERY AND INSPECTION

- SPRAY ALL PLANT MATERIAL WITH ANTI DESICCANT PRIOR TO TRANSPORT.
- KEEP ALL ROOTS AND ROOTBALLS MOIST PRIOR TO PLANTING.
- OBTAIN LANDSCAPE ARCHITECT'S APPROVAL ON ALL PLANT MATERIAL AT SOURCE OR UPON DELIVERY, PRIOR TO COMMENCEMENT OF PLANTING WORK.
- APPROVAL OF PLANT MATERIAL PRIOR TO PLANTING SHALL NOT IMPAIR THE RIGHT OF THE LANDSCAPE ARCHITECT TO REJECT PLANTS AFTER PLANTING, WHICH HAVE BEEN DAMAGED, OR WHICH IN ANY WAY DO NOT CONFORM TO THE SPECIFICATIONS.
- SUBSTITUTIONS OF SIZE, OR WITH OTHER PLANT MATERIAL WILL ONLY BE ALLOWED WITH THE WRITTEN APPROVAL OF THE CONSULTANT.
- ALL MATERIAL MUST CONFORM TO THE SIZES SHOWN ON THE PLANT LIST, EXCEPT WHERE LARGER PLANT MATERIAL IS USED WHEN APPROVED BY THE CONSULTANT. USE OF LARGER PLANTS WILL NOT INCREASE THE CONTRACT PRICE. UNDERSIZED MATERIAL WILL BE REJECTED.
- ALL SHRUBS AND TREES SHALL CONFORM TO THE PRESENT STANDARDS OF THE CANADIAN NURSERY LANDSCAPE ASSOCIATION FOR SIZE AND SPECIES.
- PLANTS ARE TO BE NURSERY GROWN UNDER PROPER CULTURAL CONDITIONS, IN PARTICULAR WITH RESPECT TO SPACING, PEST AND DISEASE CONTROL, AND BRANCH AND ROOT PRUNING.
- TREES ARE TO HAVE STRAIGHT STURDY TRUNKS.
- TREES SHALL BE WELL BRANCHED AND BALANCED WITH A STRONG CENTRAL LEADER.
- DECIDUOUS SHADE TREES SHALL BE FREE OF BRANCHES NOT LESS THAN 1.8M ABOVE THE GROUND.

PREPARATION AND INSTALLATION

- PREPARE PLANTING BEDS PRIOR TO ARRIVAL OF PLANT MATERIAL ON SITE.
- EXCAVATE PER PLANTING DETAILS.
- PREPARE PLANTING SOIL BY EVENLY MIXING:
 - PLANTING SOIL TO BE A MIXTURE OF:
 - 6 PARTS GOOD QUALITY TOPSOIL
 - 2 PARTS WELL ROTTED HORSE OR COW MANURE
 - 1 PART PEAT MOSS
 - 0.58 KILOS BONE MEAL PER CUBIC METRE OF SOIL
 - PLANTING SOIL IS TO BE THOROUGHLY MIXED TO ELIMINATE AIR POCKETS AND PREVENT SETTLEMENT.

SOD AND FERTILIZING

- SOD SHALL BE NO. 1 CERTIFIED CULTIVATED TURF GRASS. 50% MERION AND 50% KENTUCKY BLUE (OR APPROVED EQUAL).
- ALL SOD SHALL BE GUARANTEED FOR TWO YEARS AFTER PLACEMENT.
- SODDING SHALL CONFORM TO LANDSCAPE ONTARIO'S 'GENERAL LANDSCAPE SPECIFICATIONS'.
- TOPSOIL SHALL BE EVENLY SPREAD OVER SUBGRADE AND LOOSELY COMPACTED TO 150MM MINIMUM DEPTH.
- ALL STONES AND DEBRIS OVER 30MM DIA. SHALL BE REMOVED.
- TOPSOIL SHALL BE SUPPLEMENTED WITH A 10-6-4 FERTILIZER AND 20% SUPERPHOSPHATE APPLIED AT A RATE OF 5 KILOS PER 100 SQUARE METRES EACH, PRIOR TO PLACEMENT OF SOD.
- SOD SHALL BE PLACED WITH STAGGERED BUTT JOINTS, WATERED THOROUGHLY, AND ROLLED WHEN DRY.
- LAY SOD SECTIONS PERPENDICULAR ON SLOPES GREATER THAN 3:1 AND SECURE WITH WOODEN PEGS. WOODEN PEGS TO BE 17 X 17 X 300MM. PLACE PEGS 3 PER SQUARE METRE, 100MM BELOW TOP EDGE TO PREVENT SHIFTING OF SOD AND DRIVE PEGS FLUSH WITH TOP OF SOD SOIL. PROVIDE A MINIMUM OF 2 STAKES PER ROLL OF SOD.

GUARANTEE AND FINAL INSPECTION

- AT THE COMPLETION OF PLANTING OPERATIONS, REMOVE ALL SURPLUS MATERIAL FROM THE SITE AT NO EXTRA COST.
- MAKE GOOD ALL DAMAGE RESULTING FROM PLANTING OPERATIONS AT NO EXTRA COST.
- ALL PLANTS SHALL BE INSPECTED AT THE END OF THE GUARANTEE PERIOD. PLANTS WHICH, AT THAT TIME, ARE NOT IN HEALTHY VIGOROUS GROWING CONDITION, TO THE CONSULTANT'S APPROVAL, SHALL BE REPLACED AT NO EXTRA CHARGE.
- AT TIME OF ASSUMPTION, ALL MATERIAL MUST BE IN HEALTHY, VIGOROUS GROWING CONDITION. BEDS AND TREE PITS MUST BE FRESHLY CULTIVATED AND FREE OF WEEDS, RUBBISH AND DEBRIS.

GUARANTEE AND FINAL INSPECTION

- AT THE COMPLETION OF PLANTING OPERATIONS, REMOVE ALL SURPLUS MATERIAL FROM THE SITE AT NO EXTRA COST.
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- AT TIME OF ASSUMPTION, ALL MATERIAL MUST BE IN HEALTHY, VIGOROUS GROWING CONDITION. BEDS AND TREE PITS MUST BE FRESHLY CULTIVATED AND FREE OF WEEDS, RUBBISH AND DEBRIS.

NOTE: CONTRACTOR TO PROVIDE A 2-YEAR WATERING PROGRAM FOR ALL PLANTINGS TO ENSURE ALL VEGETATION REMAIN IN GOOD HEALTH. CONTRACTOR TO WATER PLANTS A MINIMUM OF 2 WEEKS DURING THE MONTHS OF JULY AND AUGUST UNTIL THE END OF THE WARRANTY PERIOD.

GUARANTEE AND FINAL INSPECTION

- AT THE COMPLETION OF PLANTING OPERATIONS, REMOVE ALL SURPLUS MATERIAL FROM THE SITE AT NO EXTRA COST.
- MAKE GOOD ALL DAMAGE RESULTING FROM PLANTING OPERATIONS AT NO EXTRA COST.
- ALL PLANTS SHALL BE INSPECTED AT THE END OF THE GUARANTEE PERIOD. PLANTS WHICH, AT THAT TIME, ARE NOT IN HEALTHY VIGOROUS GROWING CONDITION, TO THE CONSULTANT'S APPROVAL, SHALL BE REPLACED AT NO EXTRA CHARGE.
- AT TIME OF ASSUMPTION, ALL MATERIAL MUST BE IN HEALTHY, VIGOROUS GROWING CONDITION. BEDS AND TREE PITS MUST BE FRESHLY CULTIVATED AND FREE OF WEEDS, RUBBISH AND DEBRIS.

NOTE: CONTRACTOR TO PROVIDE A 2-YEAR WATERING PROGRAM FOR ALL PLANTINGS TO ENSURE ALL VEGETATION REMAIN IN GOOD HEALTH. CONTRACTOR TO WATER PLANTS A MINIMUM OF 2 WEEKS DURING THE MONTHS OF JULY AND AUGUST UNTIL THE END OF THE WARRANTY PERIOD.

TREE PLANTING

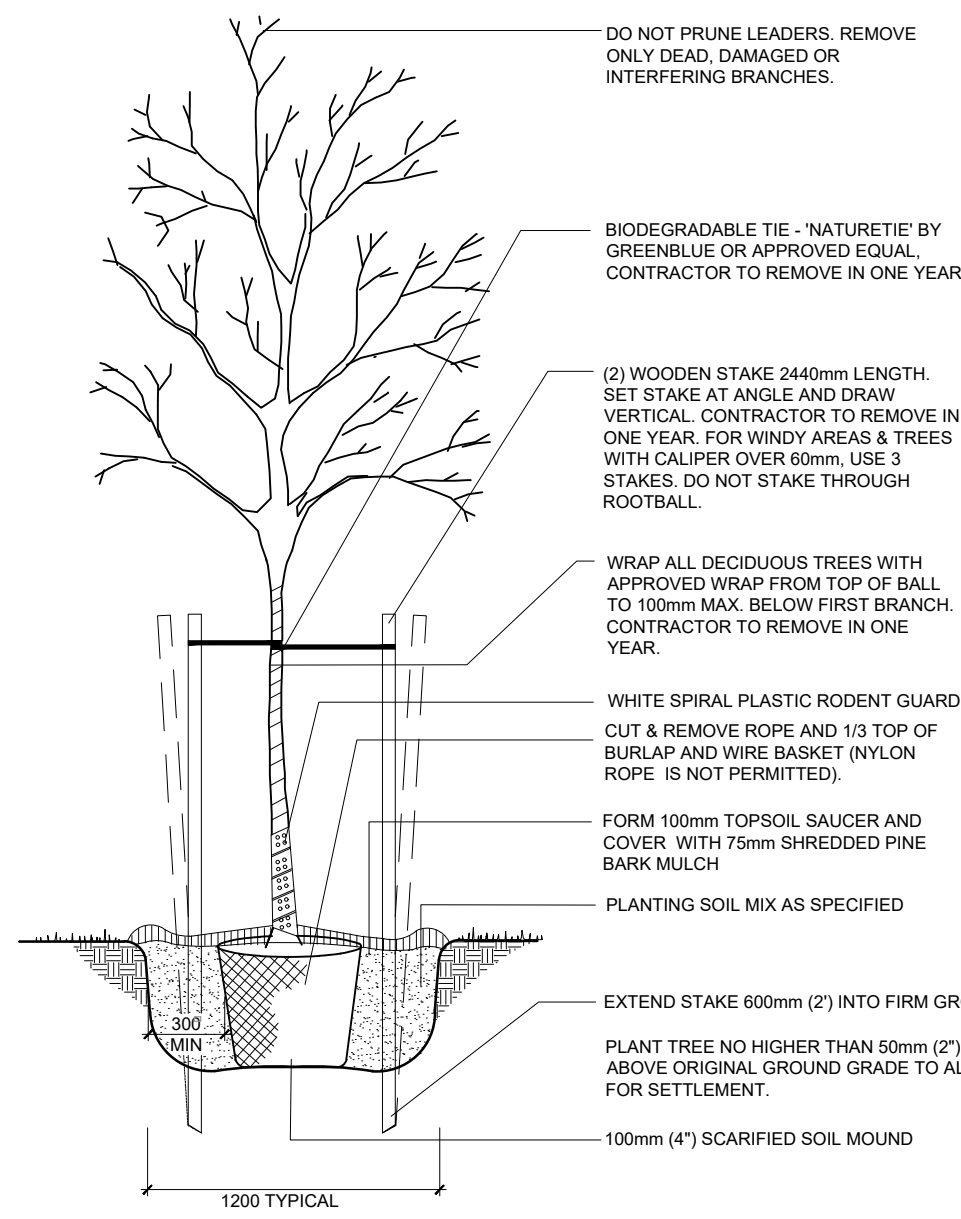
- ALL TREES MUST BE PLANTED AS PER PLANS, APPROVED BY URBAN FORESTRY AND MUST ARRIVE ON SITE IN BALLED AND BURLAPPED CONDITION, WITH A MINIMUM CALIPER OF 70mm. EACH TREE SHALL HAVE THE BURLAP OPENED AND SOIL BRUSHED AWAY UNTIL THE FIRST PROPER ROOT IS FOUND INDICATING THE TOP OF THE ROOT BALL. THE TREE IS THEN TO BE PLANTED WITH THIS LEVEL TO BE CONSIDERED THE TOP OF THE ROOT-BALL FOR ALL OTHER INSTRUCTIONS. ANY TREE FOUND PLANTED WITH THE FIRST PROPER ROOT MORE THAN 2.5m BELOW PLANTING LEVEL WILL BE REJECTED AND REQUIRE REPLACEMENT OR REPLANTING AT THE CITY'S DISCRETION.

UTILITIES

- CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES ON THE SITE.
- CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB, REPORTING ALL DISCREPANCIES TO THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO EXISTING SERVICES WHEN EXCAVATING.

ARBORIST REPORT

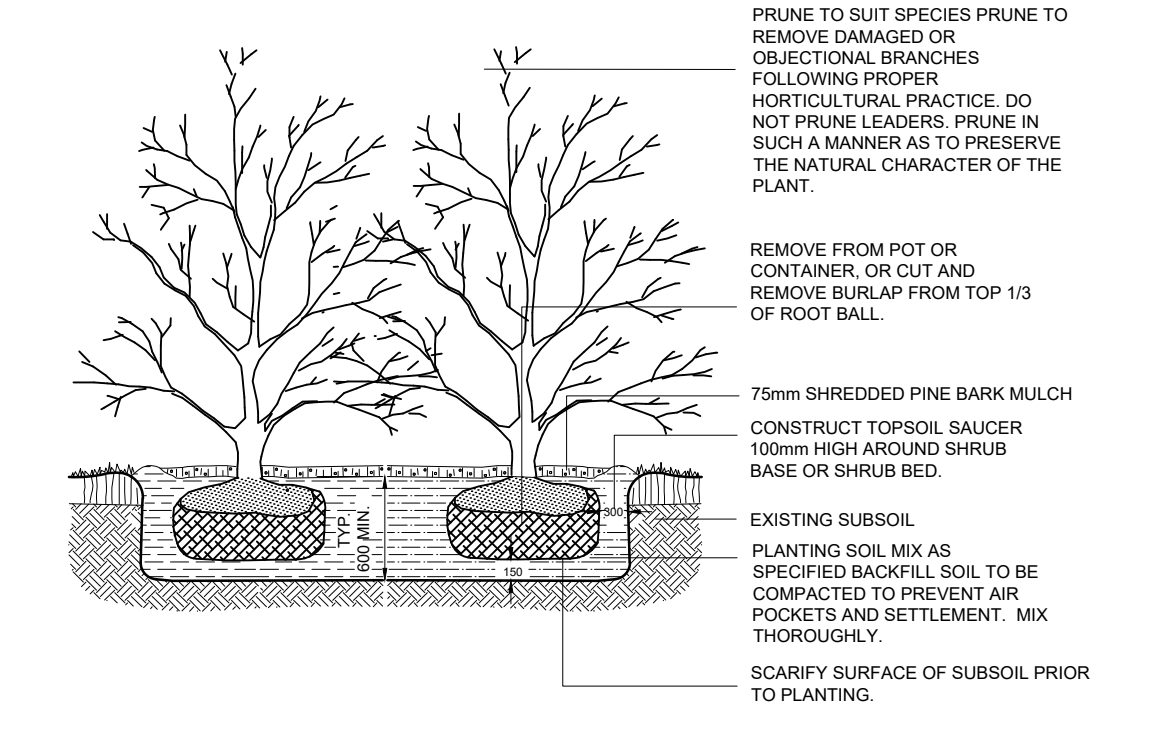
CONTRACTOR TO COORDINATE TREE REMOVALS AND PROTECTION WITH THE ARBORIST REPORT PREPARED BY KUNZT FORESTRY CONSULTING INC. (Project P2968)



- NOTES:
1. APPLY ANTI-DESSICANT PRIOR TO DELIVERY.
 2. PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR SETTLEMENT.
 3. WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION.
 4. CONTRACTOR TO REMOVE ALL TAGS AND LABELS PRIOR TO END OF WARRANTY PERIOD.
 5. CONTRACTOR TO REMOVE ALL HARDWARE FROM TREES AT THE END OF WARRANTY PERIOD.

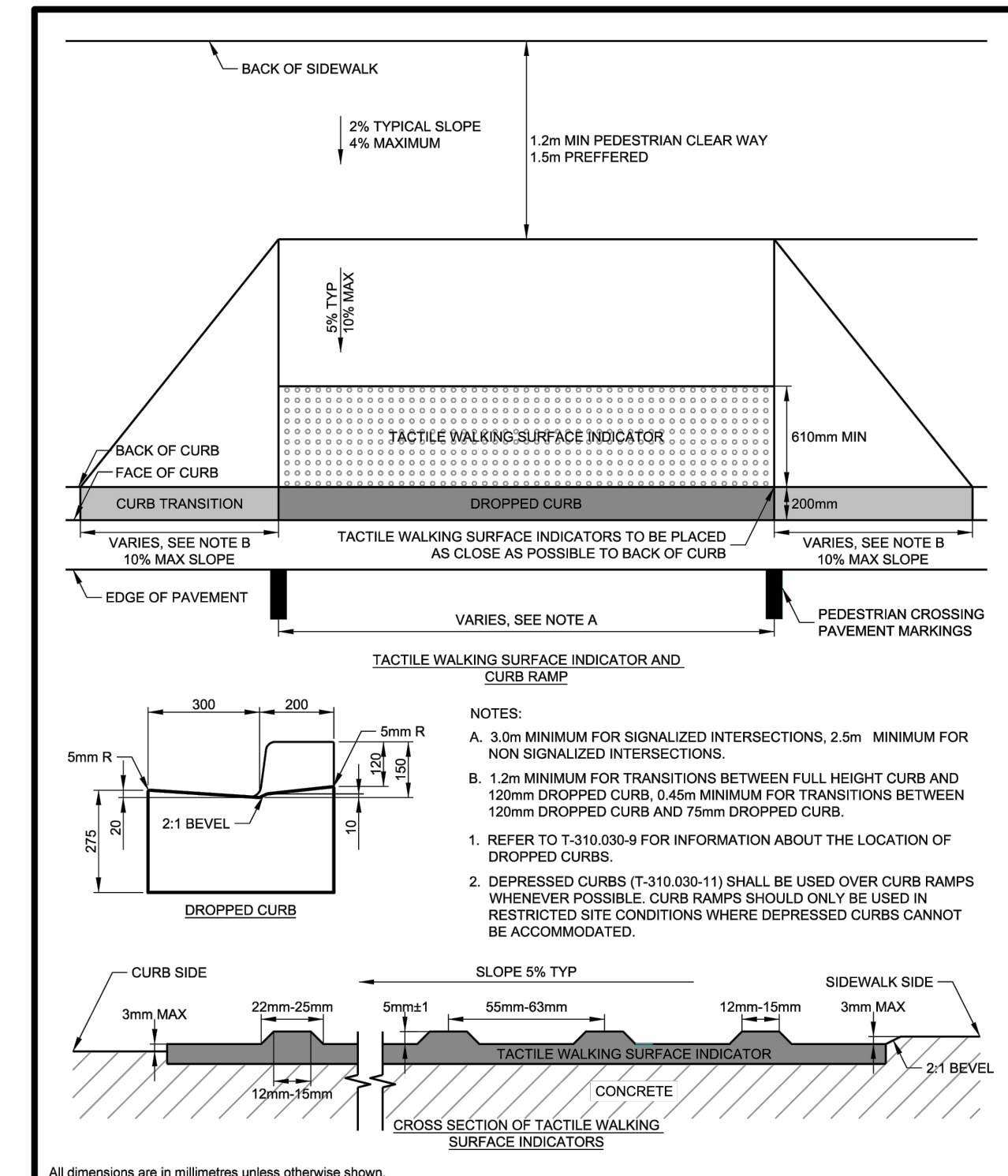
1 Deciduous Tree Detail
SCALE NTS

2 Ornamental Grass Detail
SCALE NTS



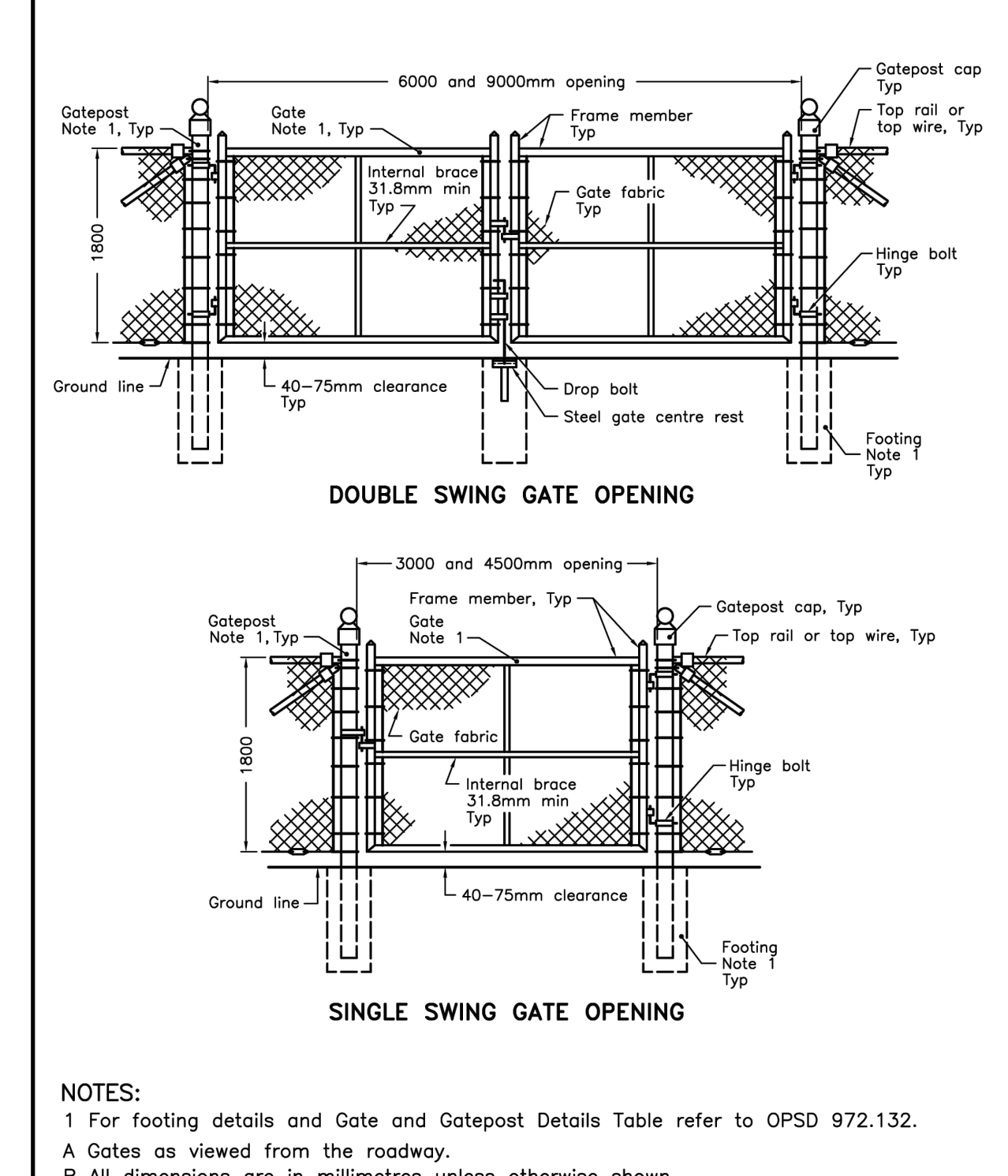
- NOTES:
1. APPLY ANTI-DESSICANT PRIOR TO DELIVERY.
 2. PLANT TREE NO HIGHER THAN 50mm ABOVE ORIGINAL GROUND GRADE TO ALLOW FOR SETTLEMENT.
 3. WATER AT TIME OF PLANTING AND WHENEVER DEEMED NECESSARY TO MAINTAIN TREES IN A HEALTHY CONDITION.
 4. CONTRACTOR TO REMOVE ALL TAGS AND LABELS PRIOR TO END OF WARRANTY PERIOD.

2 Shrub Detail
SCALE NTS



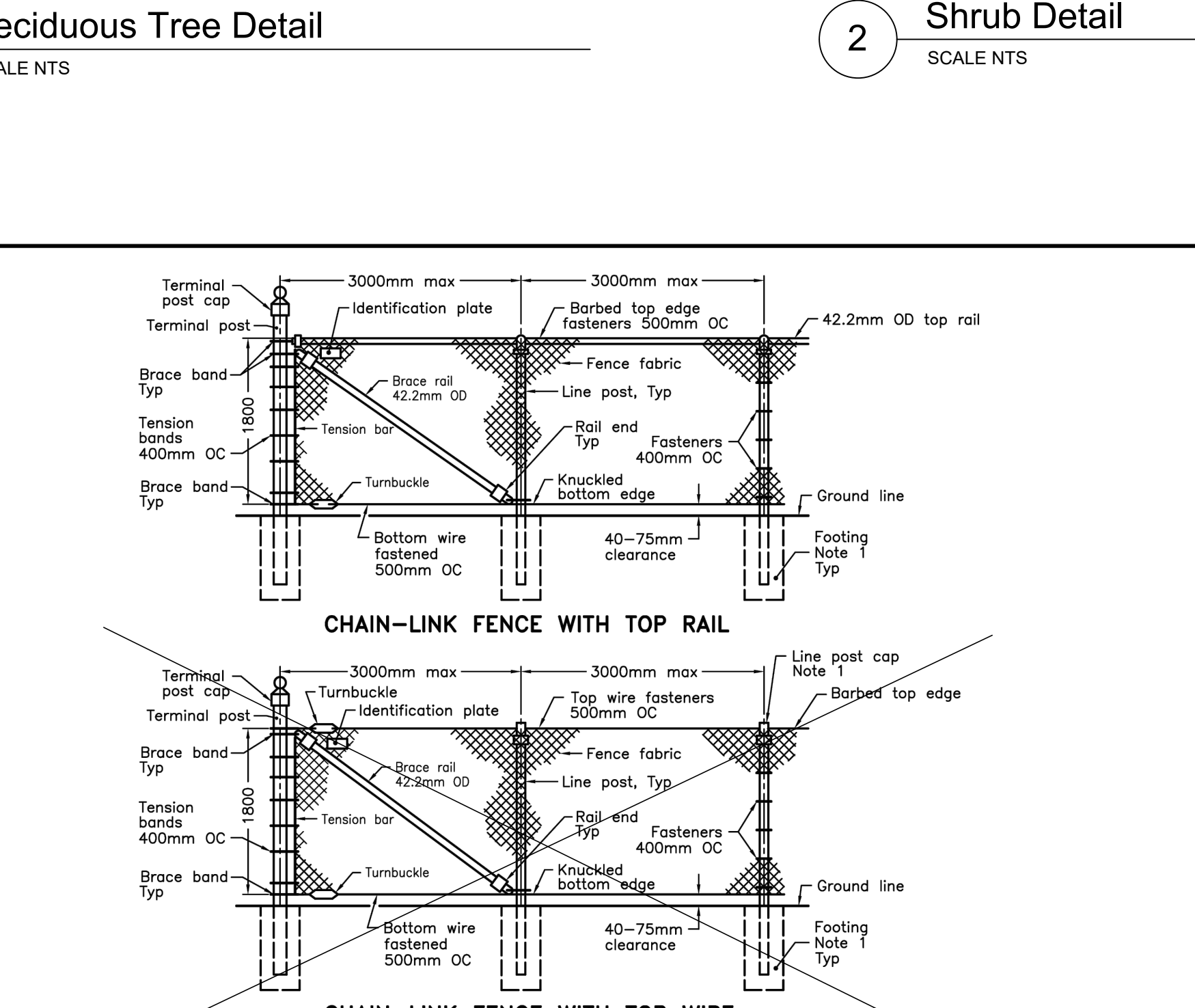
ENGINEERING & CONSTRUCTION SERVICES STANDARD DRAWING	REV 2	SEP 2018
TACTILE WALKING SURFACE INDICATOR AND CURB RAMP DETAIL	T-310.030-10	
NTS	SHEET 1	

3 Tactile Walking Surface Indicator
SCALE NTS



ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
FENCE, CHAIN-LINK COMPONENT - GATE	OPSD 972.102	

4 Chainlink Gate Detail
SCALE NTS



NOTES:

- 1 For footing details and line post cap detail refer to OPSD 972.132.
- A Fence as viewed from the roadway.
- B All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2
FENCE, CHAIN-LINK INSTALLATION - ROADWAY	OPSD 972.130	

5 Chainlink Fence Detail
SCALE NTS

Sample Statistics Template
Toronto Green Standard Version 4
Soil volume for Tree Planting

	Location (City ROW, private property)	Soil Area (m ²)	Soil Depth (m*)	Soil Volume (m ³)	Tree Quantity	Soil Volume per tree (m ³)	Irrigation provided (Yes/No)	Hard Surface or Soft Surface (Yes/No)	Soil Cells (Yes/No)
1	65 Grace Street	3900	1.2	4680	8	33.6	No	Soft	No
2									
Totals		3900	1.2	4680	8				

* Soil depth excludes drainage layer

- NOTES:
- ALL TREES MUST BE PLANTED AS PER THE PLANS, APPROVED BY URBAN FORESTRY AND MUST ARRIVE ON SITE IN BALLED AND BURLAPPED CONDITION, WITH A MINIMUM CALIPER OF 70mm (OR AS SPECIFIED IF LARGER). EACH TREE SHALL HAVE THE BURLAP AND WIRE CAGE OPENED AND SOIL BRUSHED AWAY UNTIL THE FIRST PROPER ROOT IS FOUND INDICATING THE TOP OF THE REAL ROOT BALL. THE TREE IS THEN TO BE PLANTED WITH THIS LEVEL TO BE CONSIDERED THE TOP OF ROOT-BALL FOR ALL OTHER INSTRUCTIONS. ANY TREE FOUND PLANTED WITH THE FIRST PROPER ROOT MORE THAN 2.5cm BELOW PLANTING LEVEL WILL BE REJECTED AND REQUIRE REPLACEMENT OR REPLANTING AT THE CITY'S DISCRETION.
 - CONTRACTOR TO PROVIDE A MINIMUM OF 1.0m DEPTH OF GOOD QUALITY PLANTING SOIL FOR ALL TREE PLANTINGS.
 - MINIMUM SOIL VOLUME FOR EACH INDIVIDUAL TREE SHALL BE 30m³. FOR TREES THAT SHARE A COMMON PLANTING BED, THE MINIMUM SOIL VOLUME SHALL BE 20m³ PER TREE. TREES THAT DO NOT MEET THESE REQUIREMENT SHALL NOT BE ACCEPTED.
 - TREES ARE TO BE PLANTED A MINIMUM OF 7.0m FROM EXISTING OR NEW TREES.
 - PER THE TORONTO GREEN STANDARDS THE REQUIRED SOIL VOLUME FOR THIS SITE IS 2093m³. THE SOFT LANDSCAPED AREA ON THIS SITE IS 3670m². A TOTAL SOIL VOLUME OF 3670m³ (MINIMUM) HAS BEEN PROVIDED FOR THIS SITE.

KEY PLAN NTS

NOT FOR CONSTRUCTION

No.	REVISIONS TO DRAWING	DATE
6	ISSUED FOR TENDER	SEPT 11, 2024
5	UPDATE TPF PER CITY	May 24, 2024
4	RE-ISSUED FOR SPA	Mar 20, 2024
3	RE-ISSUED FOR SPA	Feb 20, 2023
2	RE-ISSUED FOR SPA	Aug 09, 2022
1	ISSUED FOR SPA	Oct 19, 2021

ALL PREVIOUS ISSUES OF THIS DRAWING ARE SUPERSEDED

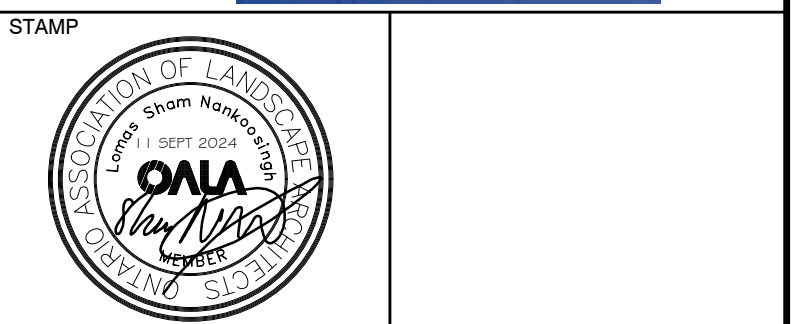
PROJECT TITLE
DAYCARE ADDITION TO ECOLE ELEMENTAIRE PIERRE ELLIOT TRUDEAU

MUNICIPALITY
TORONTO, ONTARIO

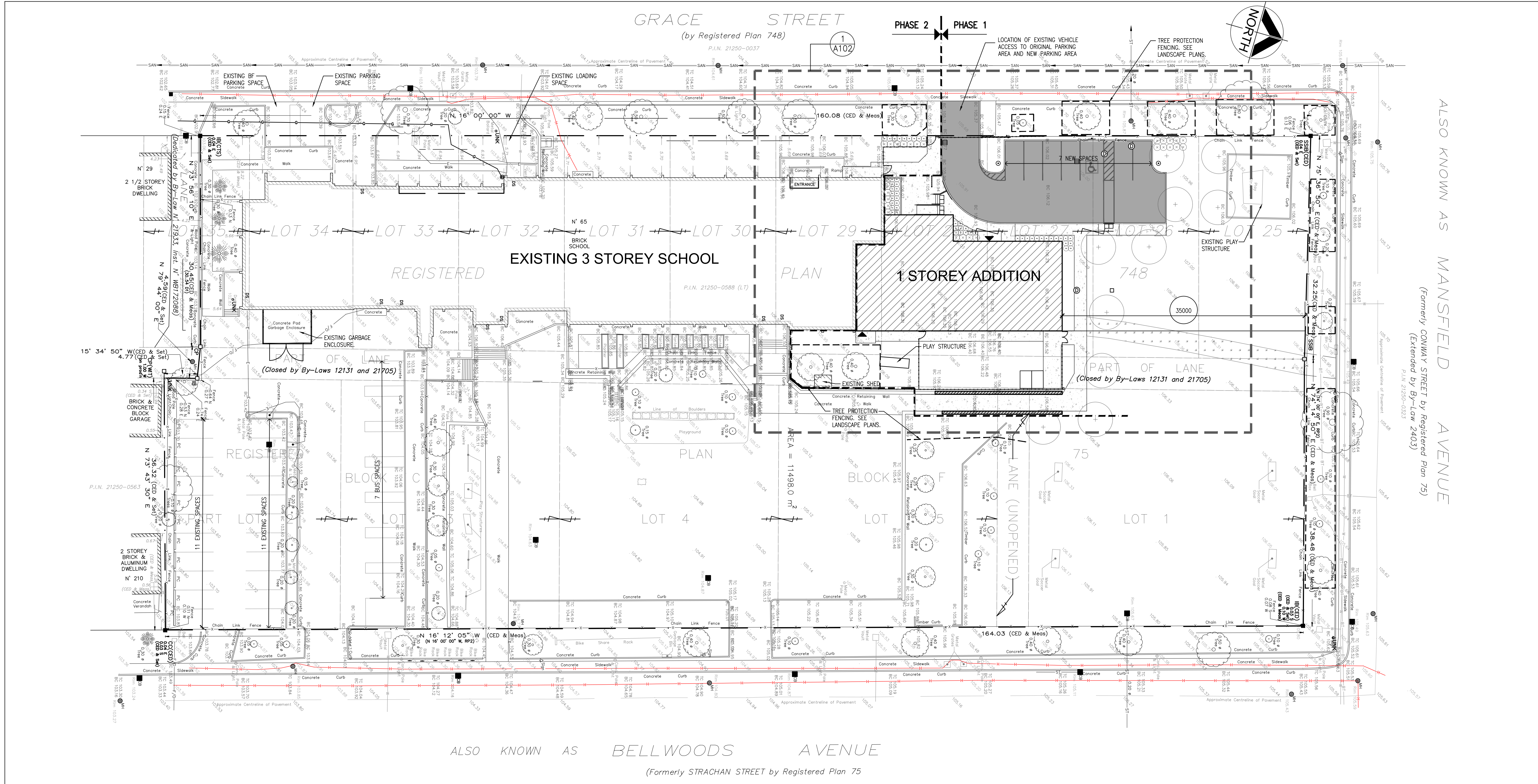
PROJECT ADDRESS
65 GRACE STREET
TORONTO, ONTARIO

SHEET TITLE
LANDSCAPE DETAILS

CONSULTANT
L LANDSCAPING INC.



SCALE	AS NOTED	DATE	23 SEPT 2021	PROJECT NUMBER	202103
DESIGNED	LSN	DRAWN	LSN	CHECKED	LSN
DWG. NUMBER	L2				



1
A101 SITE PLAN
1:300

NOTE:
ALL SURVEY INFORMATION HAS BEEN DERIVED FROM PLAN LSC-5240 PREPARED BY LAND SURVEY GROUP, 777 THE QUEENSWAY, UNIT 1, TORONTO, ONTARIO.

SITE STATISTICS		
	EXISTING	PROPOSED
SITE AREA:	11,515.50m ²	11,515.50m ²
BUILDING AREA:	1,798.43m ²	421.00m ² (NEW ADDITION) + 1,798.43m ² (EXISTING BUILDING AREA)=2,219.43m ² (NEW BUILDING AREA)
PARKING PAVED AREA:	3,471.79m ²	3,603.93m ²
LANDSCAPE OPEN SPACE:	6,245.25m ²	5,692.14m ²
LOWER LEVEL & PART BASEMENT:	904.60m ²	904.60m ² NO CHANGE
GROUND FLOOR:	1,798.43m ²	2,219.43m ²
SECOND FLOOR:	871.31m ²	871.31m ² NO CHANGE
THIRD FLOOR:	871.31m ²	871.31m ² NO CHANGE
GFA:	4,445.65m ²	4,445.65m ² + 421.00m ² = 4,866.65m ²
BUILDING HEIGHT:	±13.8m	±13.8m EXISTING 4.4m HIGH AT ADDITION
PARKING:	28 SPACES + 2 BF SPACES + 7 BUS SPACES	29 SPACES + 2 BF SPACES + 7 BUS SPACES
LOADING SPACES:	1 EXISTING SPACE	1 EXISTING SPACE

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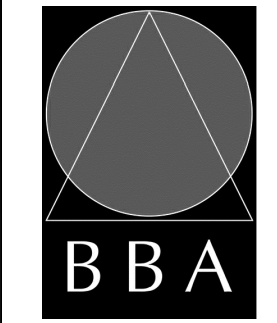


NO.	ISSUES	DATE	BY
1	SPA SUBMISSION	OCT 22, 2021	BBA
2	REISSUED FOR SPA #2	AUG. 24 2022	BBA
3	TREE COORDINATION	FEB 14, 2023	BBA
4	FOR PRICING	MAR. 06 2023	BBA
5	REISSUED FOR SPA	APR. 04 2024	BBA
6	ISSUED FOR BUILDING PERMIT	MAY 30, 2024	BBA
7	ISSUED FOR TENDER	SEPT. 11 2024	BBA

NO.	REVISIONS	DATE	BY

PROJECT:
DAYCARE ADDITION TO ECOLE ELEMENTAIRE PIERRE ELLIOT TRUDEAU
65 GRACE STREET
TORONTO, ONTARIO
CONSEIL SCOLAIRE VIAMONDE

DRAWING:
SITE PLAN



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers
250 Water Street
Suite 201
Whitby, Ontario
L1N 0G5
Tel: (905) 666-5252
Fax: (905) 666-5256
e-mail: bba@bba-archeng.com

DESIGN BY: WW	DOC. CONTROL: DATE:
DRAWN BY: CM/NV	% COMPLETE:
CHECKED BY:	INITIAL:
DATE: JUNE 2021	
SCALE: 1:300	
FILE:	

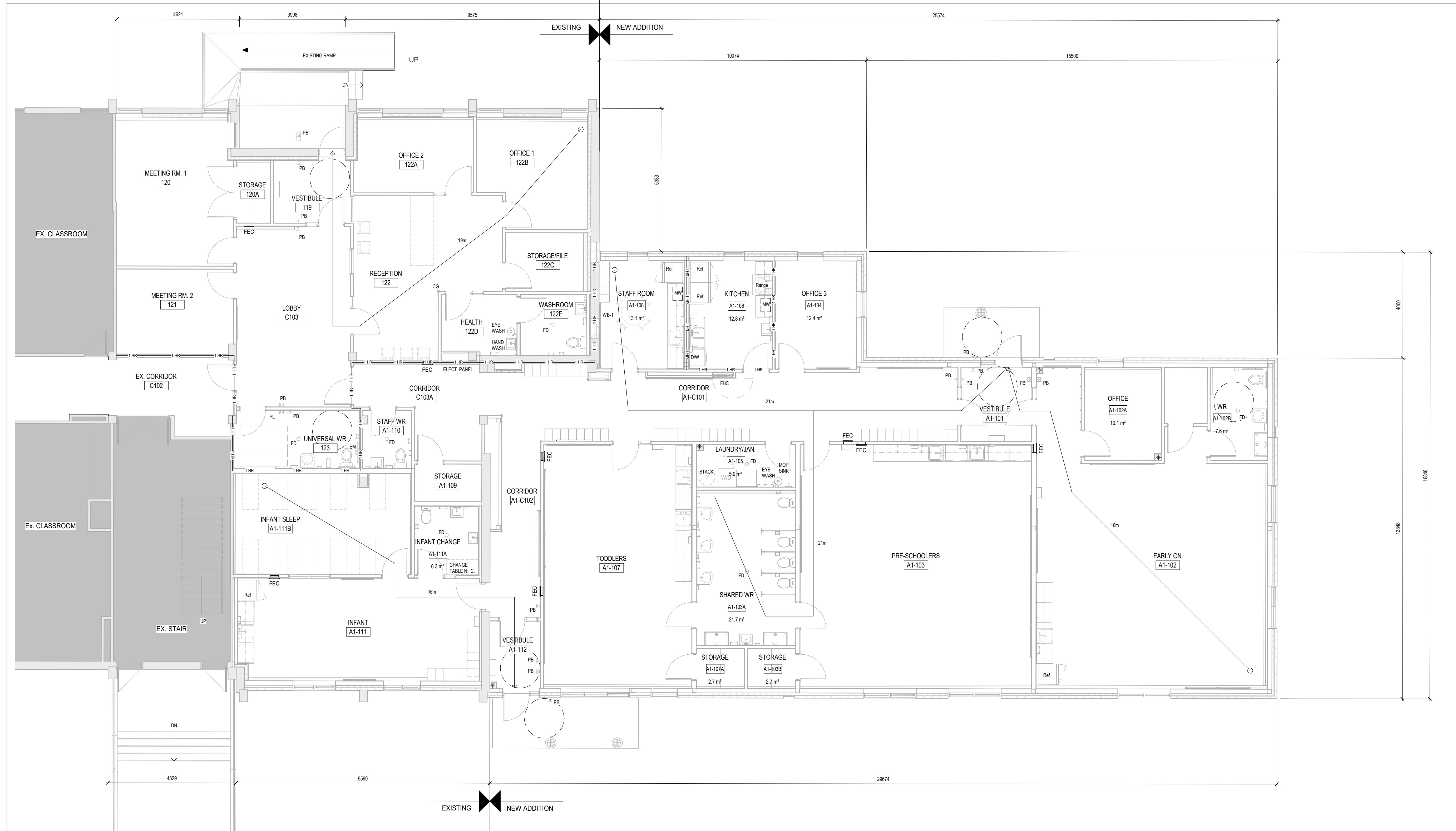
PROJECT NO:
18113
DRAWING NO:
A101

NOTES:		LIFE SAFETY PLAN NOTATION	
1. REFER TO PARTITION TYPE SCHEDULE AND PLANS FOR DESCRIPTION OF PARTITIONS TO BE USED. 2. ALL RATED WALLS/PARTITIONS TO BE FULL HEIGHT TO UNDERSIDE OF FLOOR / ROOF DECK FOR CONTINUOUS FIRE STOPPING / SMOKE SEAL INCLUDING INFILL OF DECK FLUTES WHERE APPLICABLE. PROVIDE SHAFTWALL INFILL (OFFSET) AT TOPS OF ALL RATED PARTITIONS DESIGNED BY THE FIRESTOPPING SUPPLIER TO MEET CODE REQUIREMENTS AND TO SUIT THE APPLICATION, AND SHALL HAVE A FIRE RESISTANCE RATING EQUIVALENT TO THE RATING INDICATED FOR THE ASSEMBLY WHERE WALLS/PARTITIONS ABUT / ALIGN TO UNDERSIDE OF STRUCTURE (BEAMS OR JOISTS). 3. ALL PENETRATIONS THROUGH RATED ASSEMBLIES TO BE FIRE STOPPED / SMOKE SEALED. FIRESTOPPING SHALL BE DESIGNED BY THE FIRESTOPPING SUPPLIER TO MEET CODE REQUIREMENTS AND TO SUIT THE APPLICATION AND SHALL HAVE A FIRE RESISTANCE RATING EQUIVALENT TO THE RATING INDICATED FOR THE ASSEMBLY.		FIRE SEPARATION LEGEND	
		WALL & FLOOR RATING	CLOSURES RATING
		0 HR — 0 HR — 0 HR	0 HOUR FIRE SEPARATION
1 HR — 1 HR — 1 HR	1.0 HOUR FIRE SEPARATION	3/4 HOUR F.R.R.	
		NOTES LEGEND	
		45.0 m	TRAVEL DISTANCE / ROUTE
		FEC	FIRE EXTINGUISHER CABINET (SEE ALSO MECH. DWG.)
		FHC	FIRE HOSE CABINET (SEE ALSO MECH. DWG.)
		PB	BARRIER FREE DOOR OPERATOR PUSH BUTTON

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NO.	ISSUES	DATE	BY
1	ISSUED FOR BUILDING PERMIT	MAY 2024	BBA
2	ISSUED FOR TENDER	SEPT 11, 2024	BBA

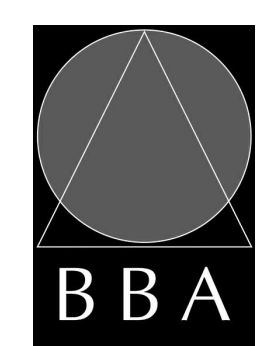


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**RENOVATION/NEW
 ADDITION LIFE SAFETY
 PLAN**



**BARRY BRYAN
 ASSOCIATES**

Architects
 Engineers
 Project Managers

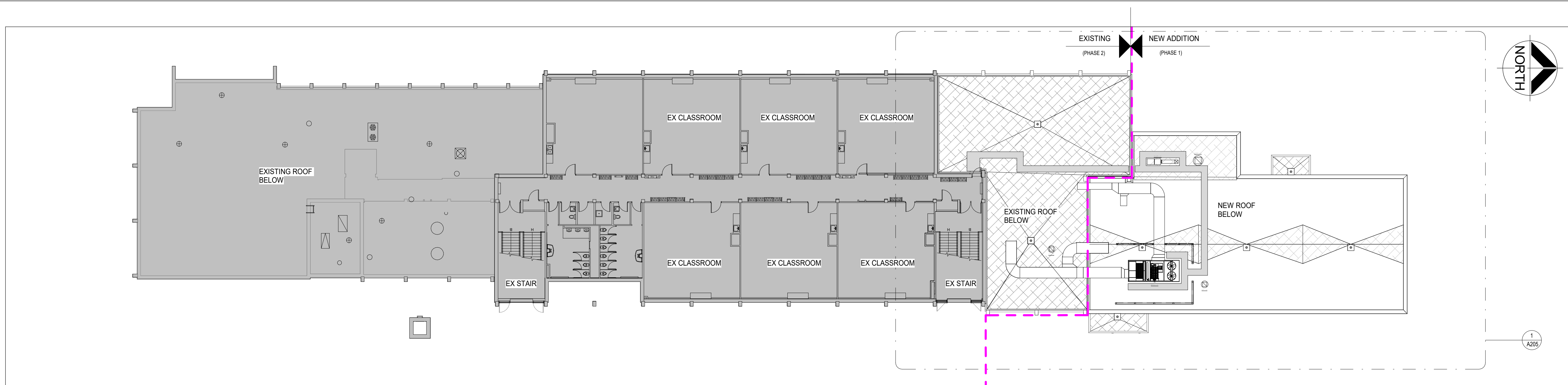
201-250 Water Street
 Whitby Ontario L1N 0G5
 Tel: (905) 666-5252
 Fax: (905) 666-5256
 e-mail: bba@bba-archeng.com

DESIGN BY:	DOC CONTROL DATE:
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DRAWN BY:	% COMPLETE:
NV	
CHECKED BY:	INITIAL:

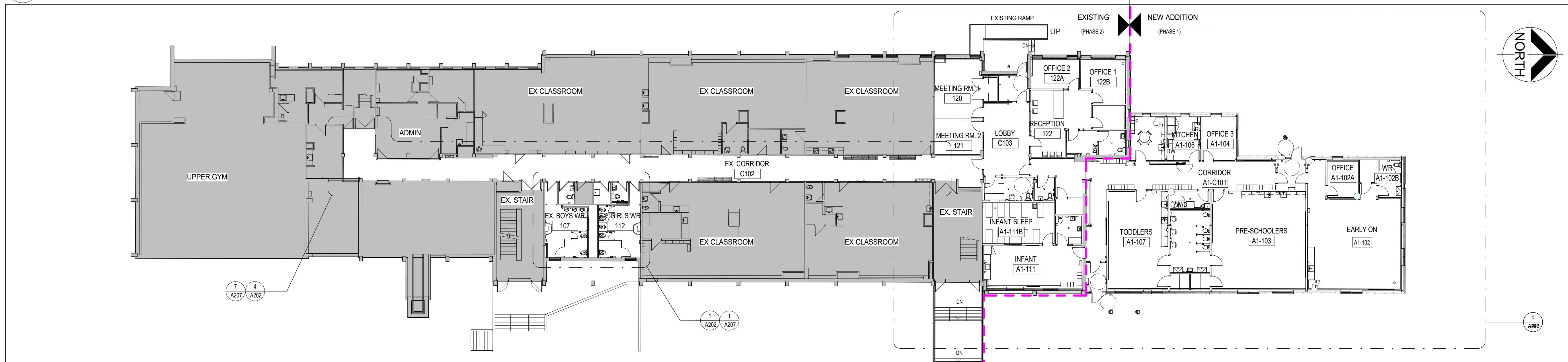
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PROJECT NO:
18113
 DRAWING NO:
A110

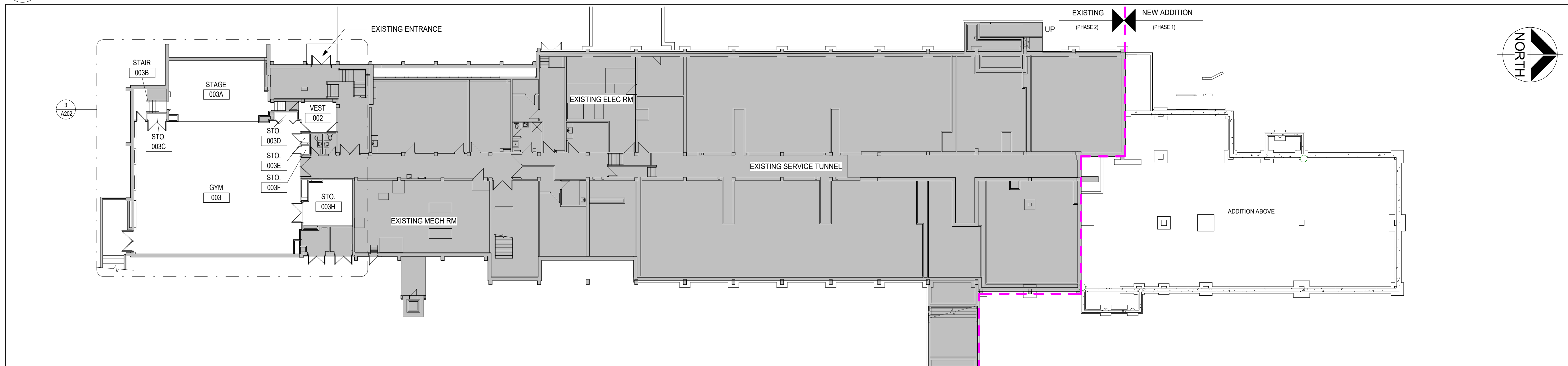
1 GROUND FLOOR NEW ADDITION LIFE SAFETY PLAN
 A110 1:75



3 OVERALL SECOND FLOOR/THIRD FLOOR PLAN
A200 NTS



2 OVERALL GROUND FLOOR PLAN
A200 NTS



1 OVERALL LOWER LEVEL FLOOR PLAN
A200 1:200

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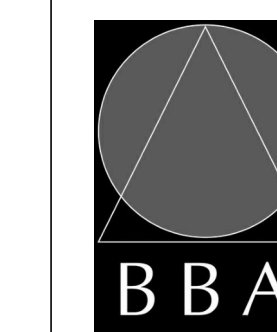
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1	SPA SUBMISSION	OCT 2021	BBA
2	SPA SUBMISSION #2	ALG 24/22	BBA
3	FOR PRICING	MAR 6/23	BBA
4	ISSUED FOR BUILDING PERMIT	MAY 30/24	BBA
5	ISSUED FOR TENDER	SEPT 11/24	BBA

NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
OVERALL PLANS



**BARRY BRYAN
ASSOCIATES**
Architects
Engineers
Project Managers

201-250 Water Street
Whitby Ontario L1N 0G5
Tel: (905) 666-5252
Fax: (905) 666-5256
e-mail: bba@bba-arch.com

DESIGN BY:	DOC CONTROL:
W2	DATE:
DRAWN BY:	% COMPLETE:
NV	
CHECKED BY:	INITIAL:

DATE:
06/28/21
SCALE:
1 : 200
FILE:
Drawings - Current - 18113.RVT

PROJECT NO:
18113
DRAWING NO:
A200

DEMOLITION LEGEND:		DEMOLITION LEGEND:		TYPICAL DEMOLITION NOTES	
1	REMOVE & DISPOSE OF EXISTING BLOCK WALL PARTITION TO EXTENT INDICATED	13	INFILL EXISTING ROOF SLAB OPENING W/ STEEL ANGLE & STEEL DECK REFER TO STRUCTURAL	—	EXISTING WALL, PARTITION OR COLUMN
2	REMOVE & DISPOSE OF EXISTING DOOR & FRAME	14	REMOVE & DISPOSE OF EXISTING MECHANICAL UNIT & ROOF EXHAUST. INFILL EXIST. OPENING WITH CONCRETE. REFER TO STRUCT.	- - -	DENOTES DEMOLITION OF BUILDING ELEMENTS
3	REMOVE & DISPOSE OF EXISTING WINDOW & SHADES AND REPLACE WITH NEW. REFER TO SCHEDULE.	15	INFILL EXISTING FLOOR SLAB OPENING W/ CONCRETE. REFER TO STRUCTURAL	—	EXISTING DOOR, FRAME AND TRIM TO REMAIN
4	REMOVE & DISPOSE OF EXISTING COUNTER, SINK & UPPER CABINETS & CAP-OFF PLUMBING	16	REMOVE & DISPOSE OF EXISTING WINDOW AND SHADES & INFILL OPENING TO MATCH EXISTING WALL	—	EXISTING DOOR, FRAME AND TRIM TO BE REMOVED AND DISPOSED
5	SAWCUT AN OPENING FOR NEW DOOR. PROVIDE LINTEL ABOVE. PATCH AND MAKE GOOD WALL & FLOOR. SALVAGE BRICK FOR REUSE AT WINDOW INFILL LOCATIONS	17	REMOVE & DISPOSE OF EXISTING WINDOW & SHADES.	—	SHADES DENOTES NOT PART OF THE CONTRACT
6	REMOVE & DISPOSE OF EXISTING MILLWORK	18	REMOVE & DISPOSE OF EXISTING BLOCK WALL PARTITION TO EXTENT INDICATED. PATCH FLOOR FINISH AND BASE TO MATCH EXISTING TERRAZZO FLOOR & BASE.	—	HATCH DENOTES EXTENT OF CONG. SLAB TO BE SAWCUT, BREAKOUT & REMOVED AS REQUIRED FOR NEW PLUMBING. PATCH AND MAKE GOOD TO MATCH EXISTING
7	REMOVE & DISPOSE OF EXISTING ENTIRE CEILING, BULKHEAD, LIGHTS & GRILLS	19	SAWCUT AN OPENING TO EXISTING CONG. ROOF SLAB FOR NEW DUCT PENETRATION, PROVIDE SHORING AS REQUIRED.		
8	REMOVE & DISPOSE OF EXISTING FLOOR FINISH & BASE				
9	REMOVE & DISPOSE OF EXISTING TOILET FIXTURES, PARTITIONS & ACCESSORIES AND CAP-OFF PLUMBING.				
10	REMOVE & DISPOSE OF EXISTING CONCRETE FROST SLAB INCLUDING FOUNDATION WALLS & FOOTINGS.				
11	REMOVE & DISPOSE OF EXISTING ROOFING, INSULATION, CURB AND FLASHING.				
12	REMOVE & DISPOSE OF EXISTING MECHANICAL FENCE AND GATE				

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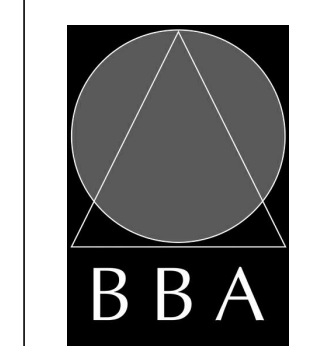
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1	FOR PRICING	MAR 023	BBA
2	ISSUED FOR BUILDING PERMIT	MAY 30/24	BBA
3	ISSUED FOR TENDER	SEPT 11/24	BBA

NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
EXISTING GROUND & SECOND FLOOR / LOW ROOF DEMOLITION PLAN



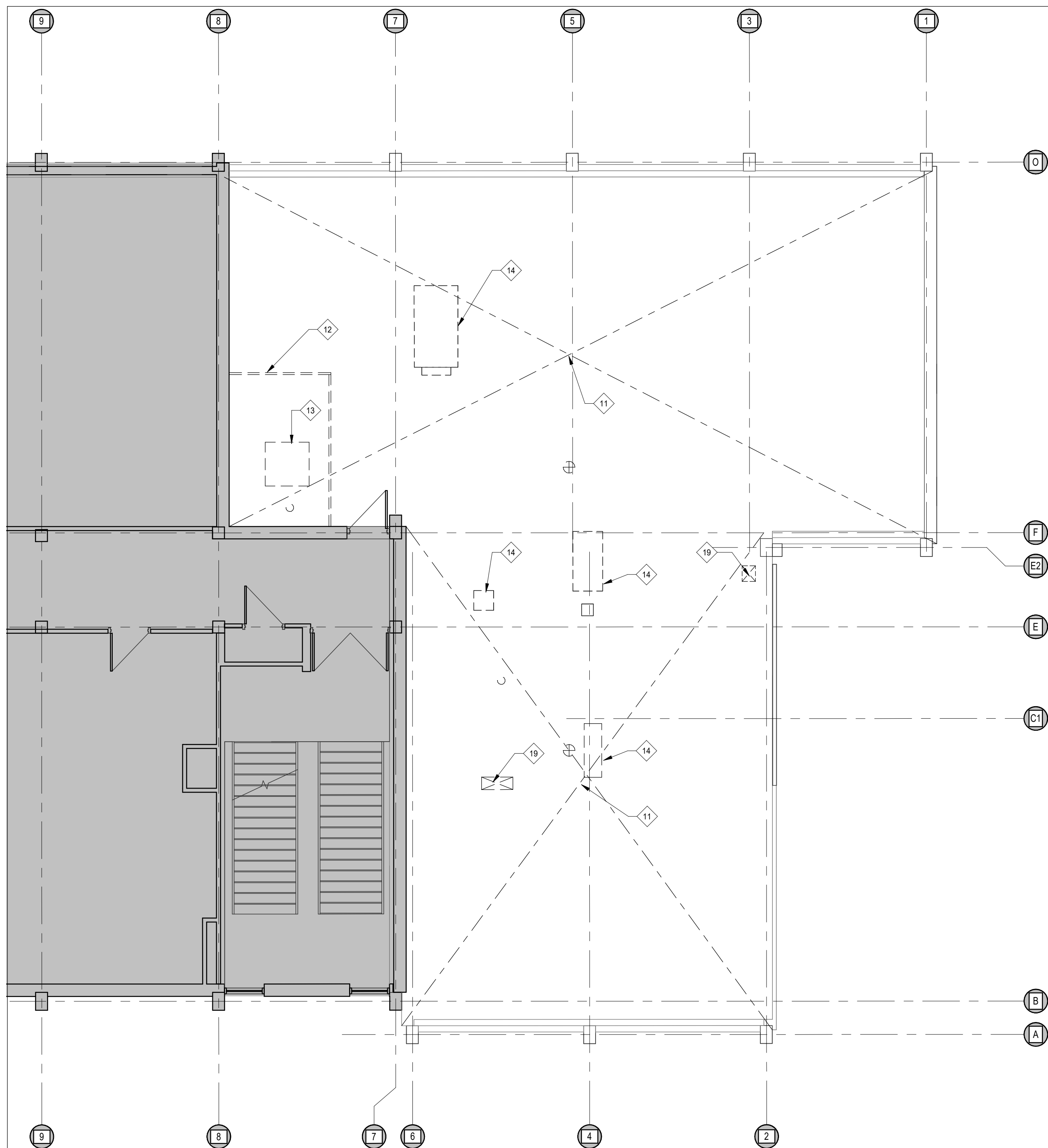
BARRY BRYAN ASSOCIATES
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Project Managers

201-250 Water Street
Whitby Ontario L1N 0G5
Tel: (905) 666-5252
Fax: (905) 666-5256
e-mail: bba@bba-archeng.com

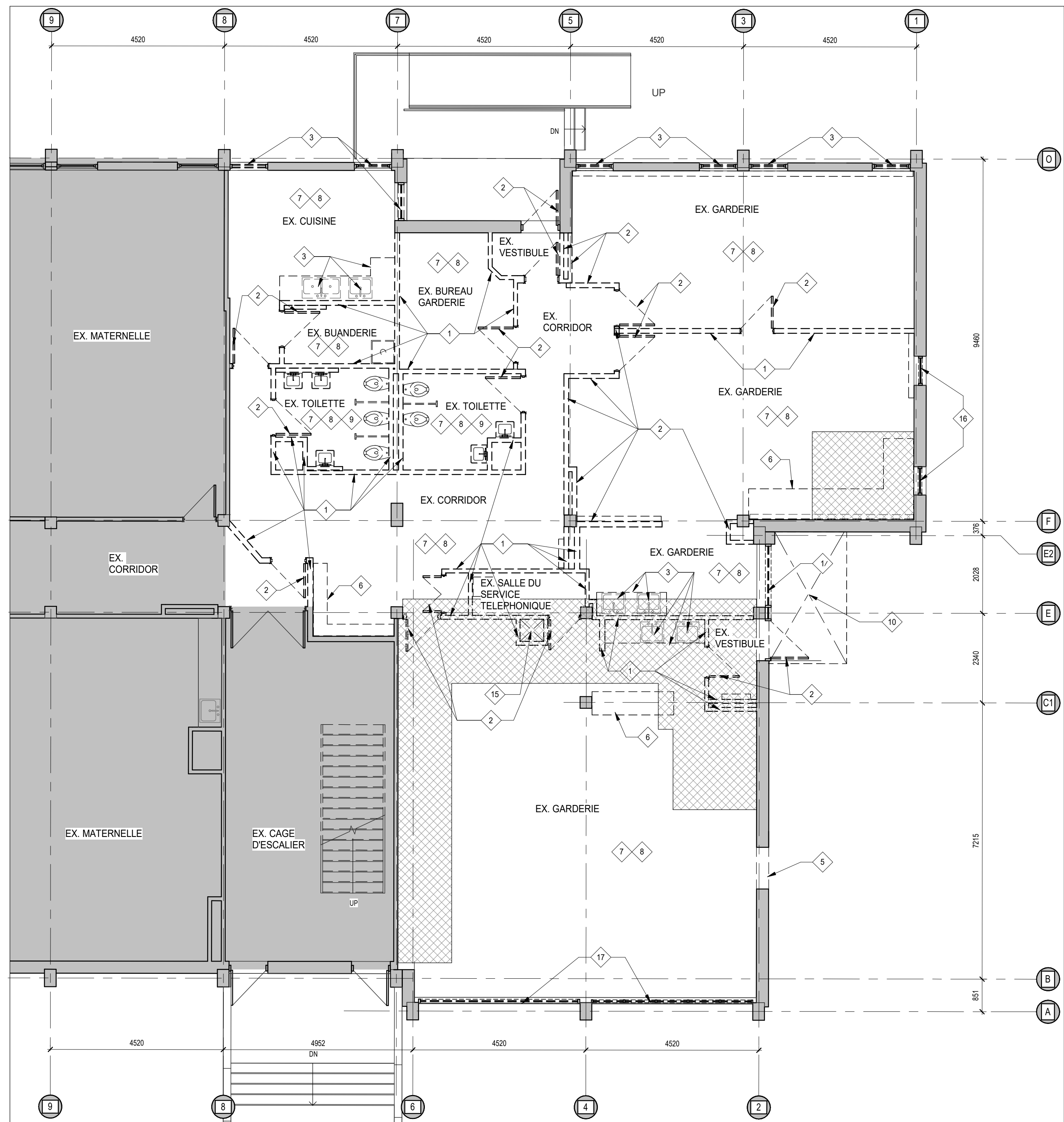
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CHECKED BY:		INITIAL:	
DATE:	02/02/23		
SCALE:	As indicated		
FILE:	Drawings - Current - 18113.RVT		

PROJECT NO:
18113

DRAWING NO:
A201



2
A201 1:75
2ND FLOOR / LOW ROOF DEMOLITION PLAN



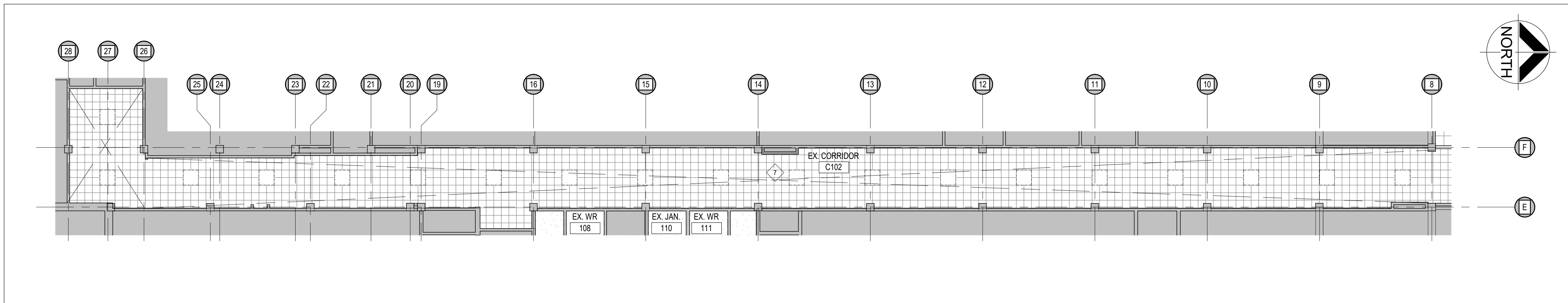
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EXISTING GROUND FLOOR DEMOLITION PLAN

DEMOLITION LEGEND:		DEMOLITION LEGEND:		TYPICAL DEMOLITION NOTES	
1	REMOVE & DISPOSE OF EXISTING BLOCK WALL PARTITION TO EXTENT INDICATED	13	INFILL EXISTING ROOF SLAB OPENING W/ STEEL ANGLE & STEEL DECK REFER TO STRUCTURAL	EXISTING WALL, PARTITION OR COLUMN	<p>1. SITE VERIFY ALL DIMENSIONS AND CONDITIONS.</p> <p>2. ALL WORK TO BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.</p> <p>3. PROVIDE PROTECTION IN LOCATIONS APPROVED BY THE OWNER AND CONSULTANT SO AS NOT TO DAMAGE EXISTING STRUCTURE, LANDSCAPE OR PART THEREOF.</p> <p>4. COMPLETE ALL DEMOLITION WORK NECESSARY TO COMPLETE THE RENOVATIONS AS SHOWN AND AS REQUIRED. DEMOLITION OF BUILDING ELEMENTS INCLUDES COMPLETE REMOVAL OF ALL ASSOCIATED FIXTURES, FITTINGS, HARDWARE, FASTENERS, EQUIPMENT AND ACCESSORIES UNLESS NOTED OTHERWISE.</p> <p>5. ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS ARE COMPLEMENTARY AND SHALL BE READ TOGETHER.</p> <p>6. PROVIDE ALL SHORING AS REQUIRED. SHORING SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER.</p> <p>7. NOTIFY CONSULTANT OF LOAD BEARING MEMBERS OR ASSEMBLIES IDENTIFIED OR DISCOVERED DURING WORK AND NOT INDICATED ON DRAWINGS. DO NOT PROCEED WITH REMOVALS WITHOUT PRIOR REVIEW BY THE CONSULTANT.</p> <p>8. PROVIDE TEMPORARY SUPPORT OF PIPES, DUCTS AND ELECTRICAL CHASES AS REQUIRED FOR SAFE REMOVAL. EXISTING AND PROPOSED SUPPORTS ARE TO BE REVIEWED BY THE CONSULTANT PRIOR TO THE REMOVAL OF ANY COMPONENTS WHICH MAY FALL OR CAUSE OTHERS TO FALL.</p> <p>9. MAINTAIN WORK AREAS AND STORAGE AREAS CLEAN AND ORDERLY AT ALL TIMES.</p> <p>10. REMOVAL OF EXISTING FLOOR FINISHES IS TO INCLUDE COMPLETE REMOVAL OF BASE AND ALL MORTAR AND ADHESIVES AND PREPARATION OF EXISTING SUBSTRATES TO RECEIVE NEW FLOORING, SATISFACTORY TO THE MANUFACTURER OF NEW FLOOR FINISHES. ALLOW FOR EXCESSIVE LEVELING OF SLABS.</p> <p>11. DEMOLITION INCLUDES ALL ASSOCIATED MECHANICAL AND ELECTRICAL SERVICES, EQUIPMENT, FITTINGS, FIXTURES, HANGERS, BRACKETS, TRIM AND ACCESSORIES AS REQUIRED TO COMPLETE THE WORK.</p> <p>12. SAWCUT, BREAK OUT AND MAKE GOOD ALL EXISTING FLOOR SLABS WHERE REQUIRED TO INSTALL NEW UNDERGROUND PLUMBING AND OTHER BURIED SERVICES AS INDICATED ON MECHANICAL AND ELECTRICAL DRAWINGS.</p> <p>13. MAINTAIN EXISTING FIRE HOSE CABINETS AND FIRE RATINGS.</p> <p>14. REMOVAL OF DOORS AND FRAMES IS TO INCLUDE REMOVAL OF ALL HARDWARE.</p> <p>15. REMOVE ALL PROTRUSIONS IN FLOOR SLAB AND GRIND DOWN TO FLOOR LEVEL.</p> <p>16. CLEAN AND REPAIR ALL EXISTING SURFACES TO REMAIN, AS NECESSARY TO RECEIVE NEW FINISHES.</p> <p>17. DISCONNECT AND CAP OFF ALL SERVICES PRIOR TO DEMOLITION.</p> <p>18. DISPOSE OF ALL MATERIALS OFF SITE. COORDINATE ITEMS FOR SALVAGE / HANDOVER WITH OWNER.</p> <p>19. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING STRUCTURE OR FINISHES SHOWN TO REMAIN AND REPAIR / REPLACE SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.</p>
2	REMOVE & DISPOSE OF EXISTING DOOR & FRAME	14	REMOVE & DISPOSE OF EXISTING MECHANICAL UNIT & ROOF EXHAUST. INFILL EXIST. OPENING WITH CONCRETE. REFER TO STRUCT.	--- -- DENOTES DEMOLITION OF BUILDING ELEMENTS	
3	REMOVE & DISPOSE OF EXISTING WINDOW & SHADES AND REPLACE WITH NEW. REFER TO SCHEDULE.	15	INFILL EXISTING FLOOR SLAB OPENING W/ CONCRETE. REFER TO STRUCTURAL	EXISTING DOOR, FRAME AND TRIM TO REMAIN	
4	REMOVE & DISPOSE OF EXISTING COUNTER, SINK & UPPER CABINETS & CAP-OFF PLUMBING	16	REMOVE & DISPOSE OF EXISTING WINDOW AND SHADES & INFILL OPENING TO MATCH EXISTING WALL	EXISTING DOOR, FRAME AND TRIM TO BE REMOVED AND DISPOSED	
5	SAWCUT AN OPENING FOR NEW DOOR. PROVIDE LINTEL ABOVE. PATCH AND MAKE GOOD WALL & FLOOR. SALVAGE BRICK FOR REUSE AT WINDOW INFILL LOCATIONS	17	REMOVE & DISPOSE OF EXISTING WINDOW & SHADES.	SHADED DENOTES NOT PART OF THE CONTRACT	
6	REMOVE & DISPOSE OF EXISTING MILLWORK	18	REMOVE & DISPOSE OF EXISTING BLOCK WALL PARTITION TO EXTENT INDICATED. PATCH FLOOR FINISH AND BASE TO MATCH EXISTING TERRAZZO FLOOR & BASE.	HATCH DENOTES EXTENT OF CONC. SLAB TO BE SAWCUT, BREAKOUT & REMOVED AS REQUIRED FOR NEW PLUMBING. PATCH AND MAKE GOOD TO MATCH EXISTING	
7	REMOVE & DISPOSE OF EXISTING ENTIRE CEILING, BULKHEAD, LIGHTS & GRILLS	19	SAWCUT AN OPENING TO EXISTING CONC. ROOF SLAB FOR NEW DUCT PENETRATION, PROVIDE SHORING AS REQUIRED.		
8	REMOVE & DISPOSE OF EXISTING FLOOR FINISH & BASE				
9	REMOVE & DISPOSE OF EXISTING TOILET FIXTURES, PARTITIONS & ACCESSORIES AND CAP-OFF PLUMBING.				
10	REMOVE & DISPOSE OF EXISTING CONCRETE FROST SLAB INCLUDING FOUNDATION WALLS & FOOTINGS.				
11	REMOVE & DISPOSE OF EXISTING ROOFING, INSULATION, CURB AND FLASHINGS.				
12	REMOVE & DISPOSE OF EXISTING MECHANICAL FENCE AND GATE				

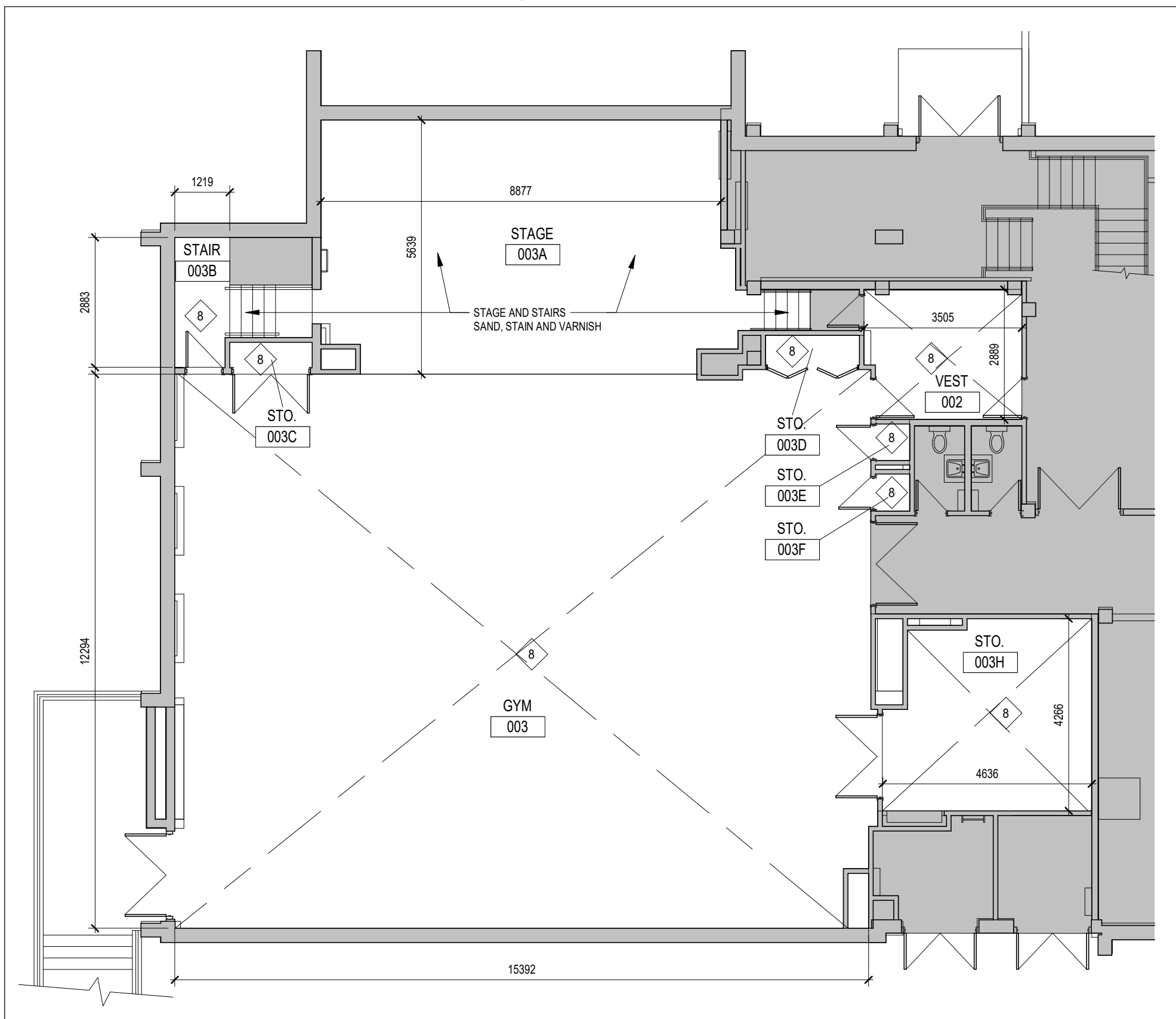
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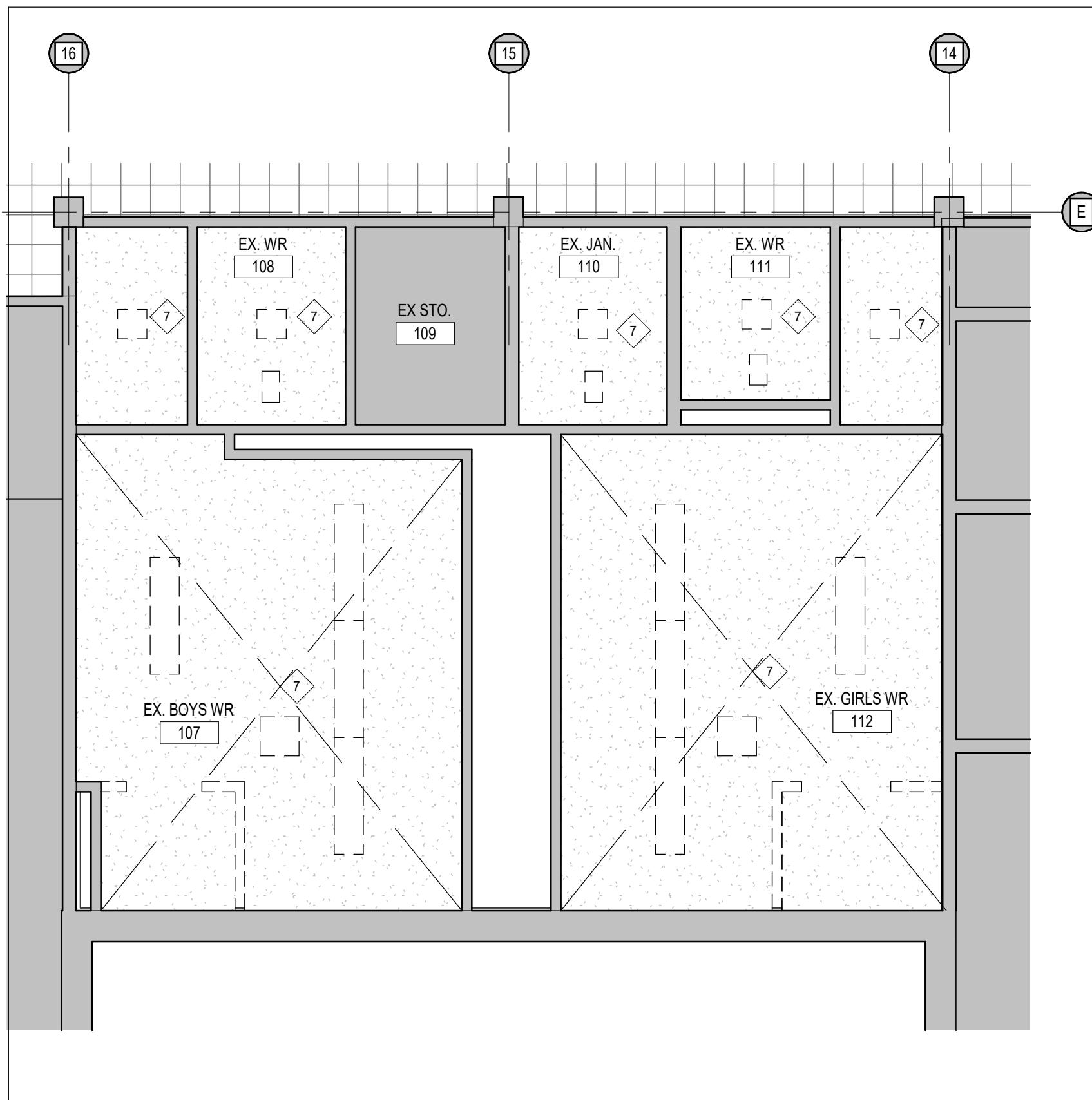
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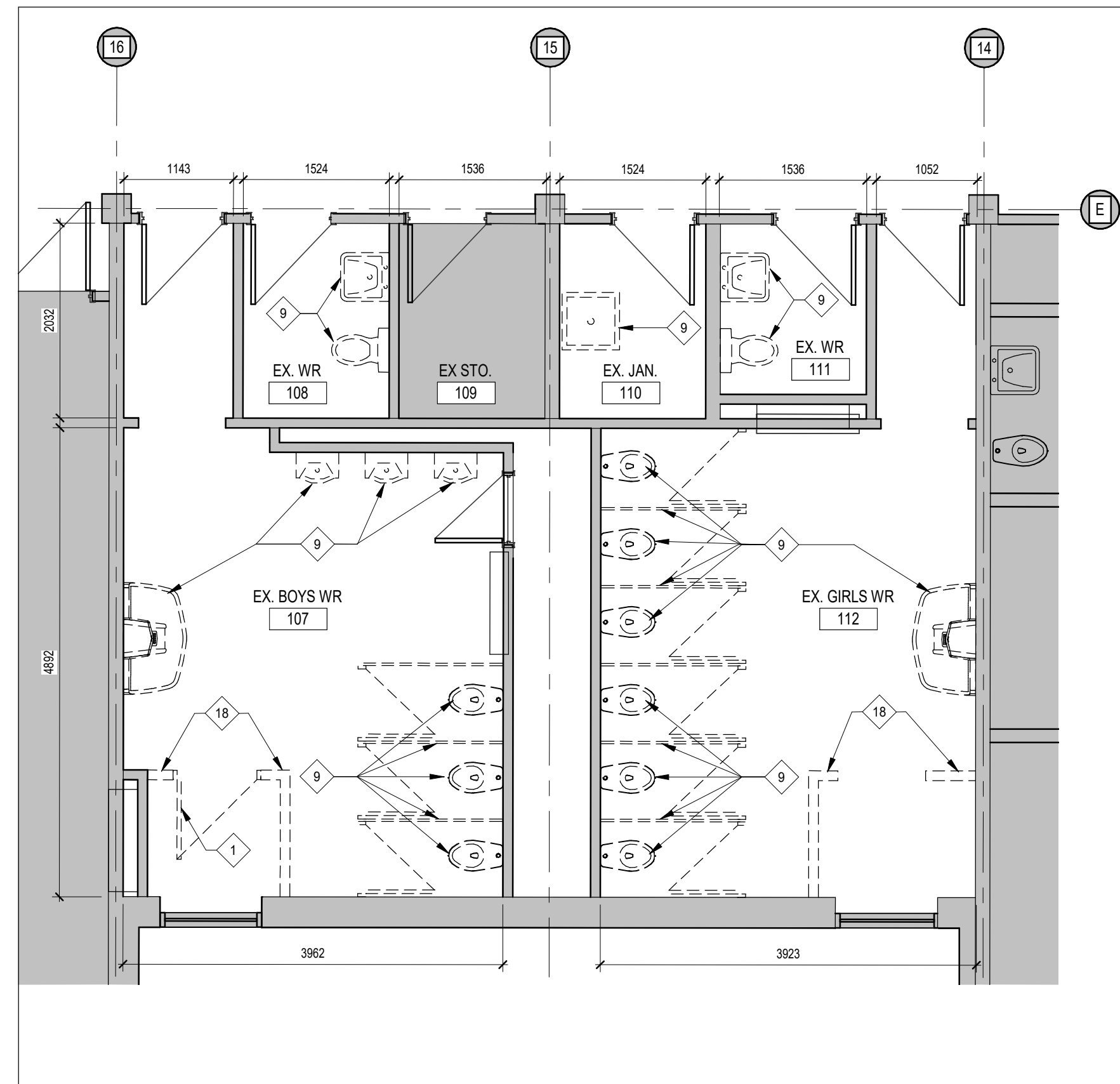
4 GROUND FLOOR CORRIDOR C102 RCP
A202 1:100



3 GYM DEMOLITION PLAN
A202 1:100



2 EX. WASHROOM 107, 108, 110, 111 & 112 RCP DEMO. PLAN
A202 1:50



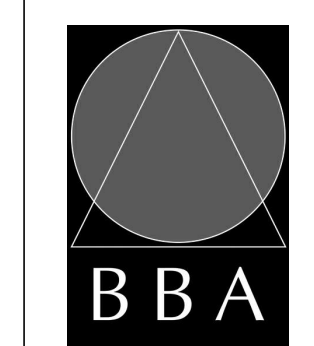
1 EXIST. WASHROOM 107, 108, 110, 111 & 112 DEMO PLAN
A202 1:50

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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
WASHROOMS, GYM & CORRIDOR DEMOLITION PLANS



BARRY BRYAN ASSOCIATES

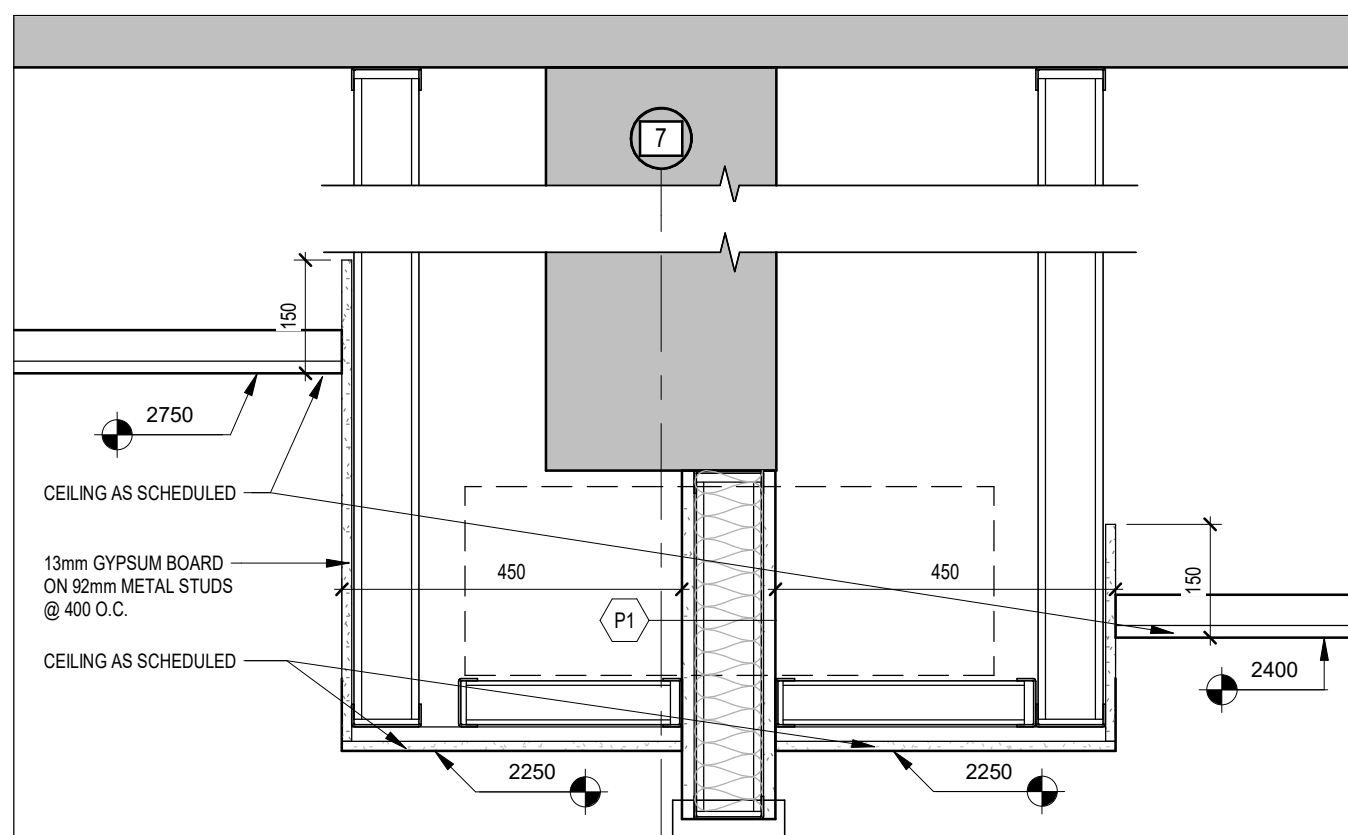
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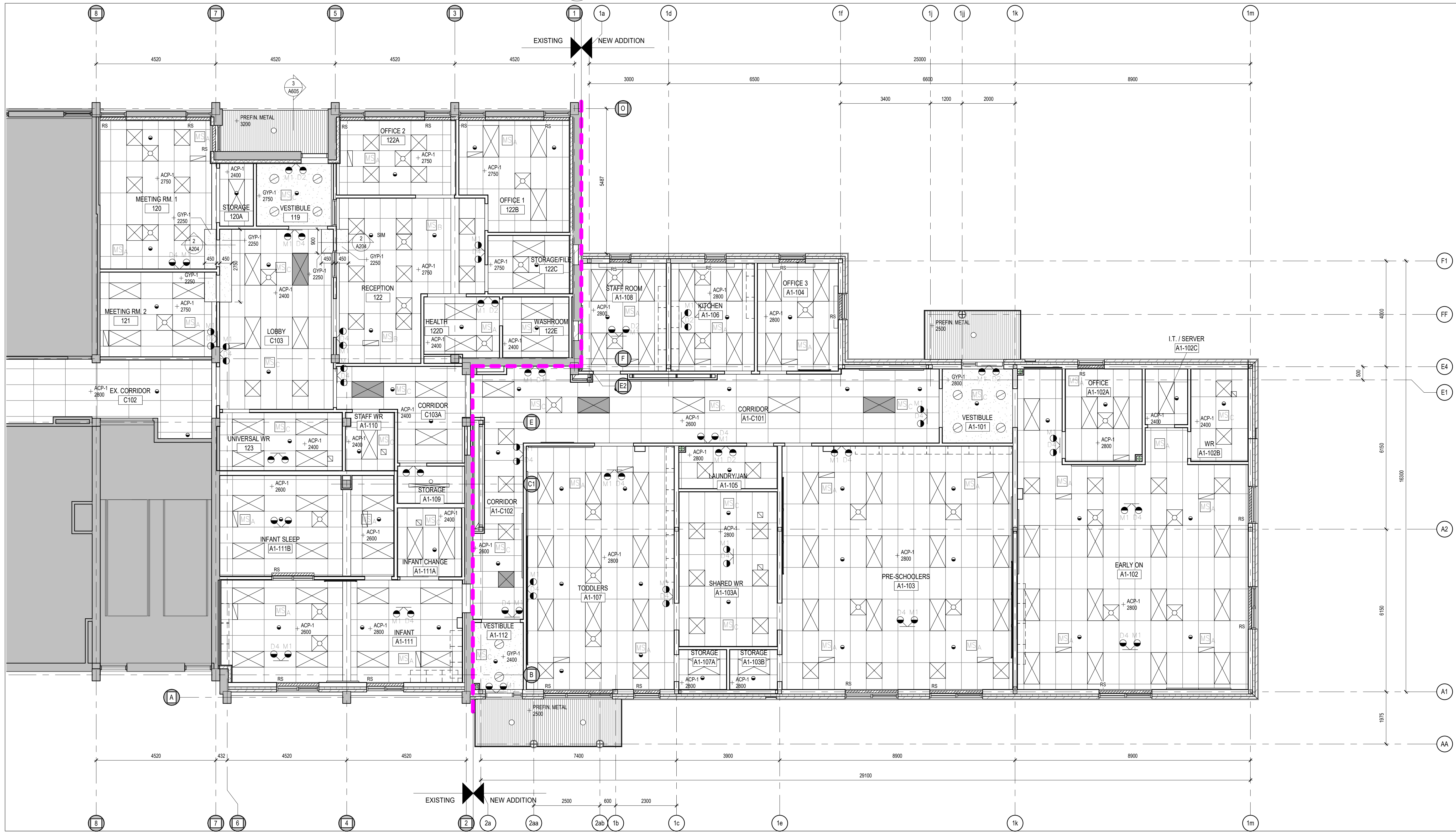
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PROJECT NO:
18113
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2
A204
1:10
CEILING DETAIL

CEILING TYPES:		CEILING NOTATION LEGEND:	
	13mm GYPSUM BOARD ON METAL STUD FRAMING w/ CEILING LEVEL ABOVE FINISHED FLOOR.		SPOT ELEVATION OF UNDERSIDE OF BULKHEAD
	610mm x 1220mm ACOUSTIC CEILING PANELS IN SUSPENDED T-BAR GRID w/ CEILING LEVEL ABOVE FINISHED FLOOR.		LUMINAIRE (REFER TO ELECTRICAL)
	PREFIN METAL SOFFIT 19 FURRING CHANNELS 64mm METAL STUD FRAMING		CEILING DIFFUSER (REFER TO MECHANICAL)
	EXPOSED STRUCTURE c/w PAINT FINISH TO STEEL DECK, FRAMING, BRACING, SUPPORTS AND ALL SERVICES INCLUDING DUCTS, PIPES, FITTINGS, HANGERS & CONDUITS		RETURN AIR GRILLE - SIZES VARY (REFER TO MECHANICAL)
			SPRINKLER HEAD (REFER TO MECHANICAL)
			ROLLER SHADES



1
A204
1:75
PART GROUND FLOOR RCP

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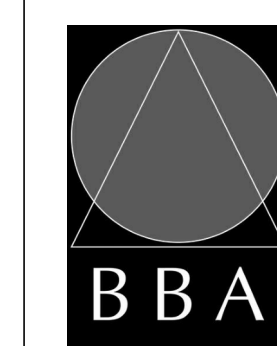
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DRAWING:
PART GROUND FLOOR RCP



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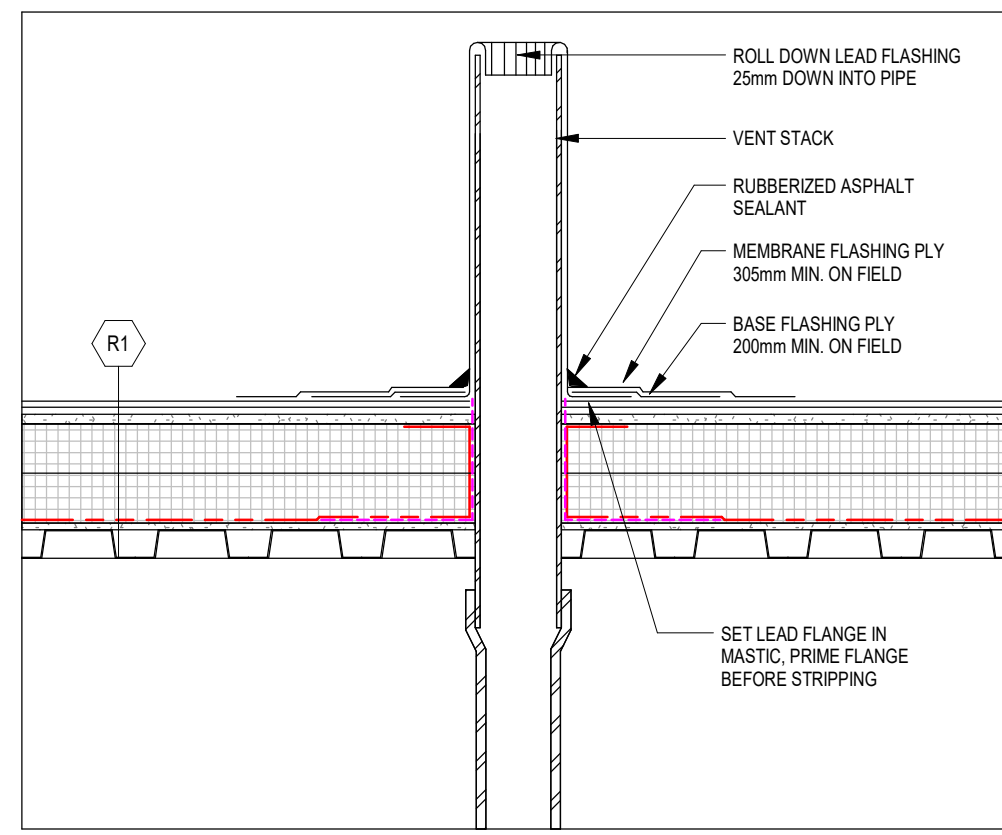
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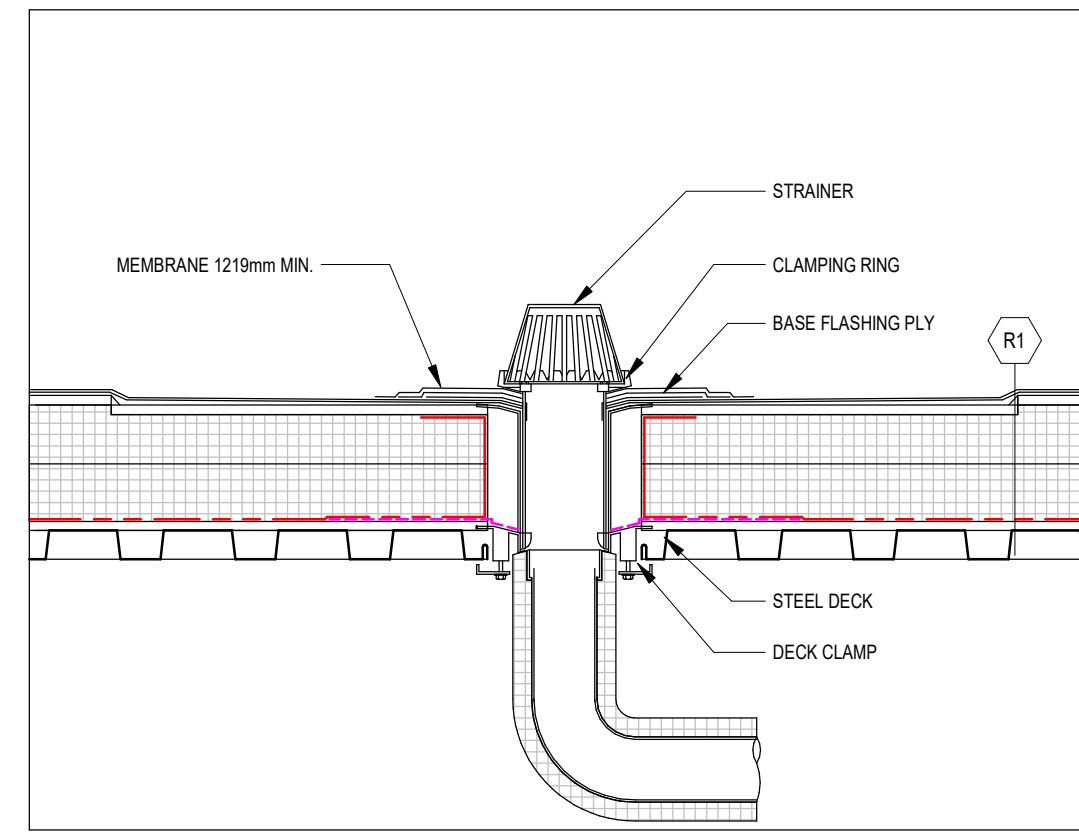
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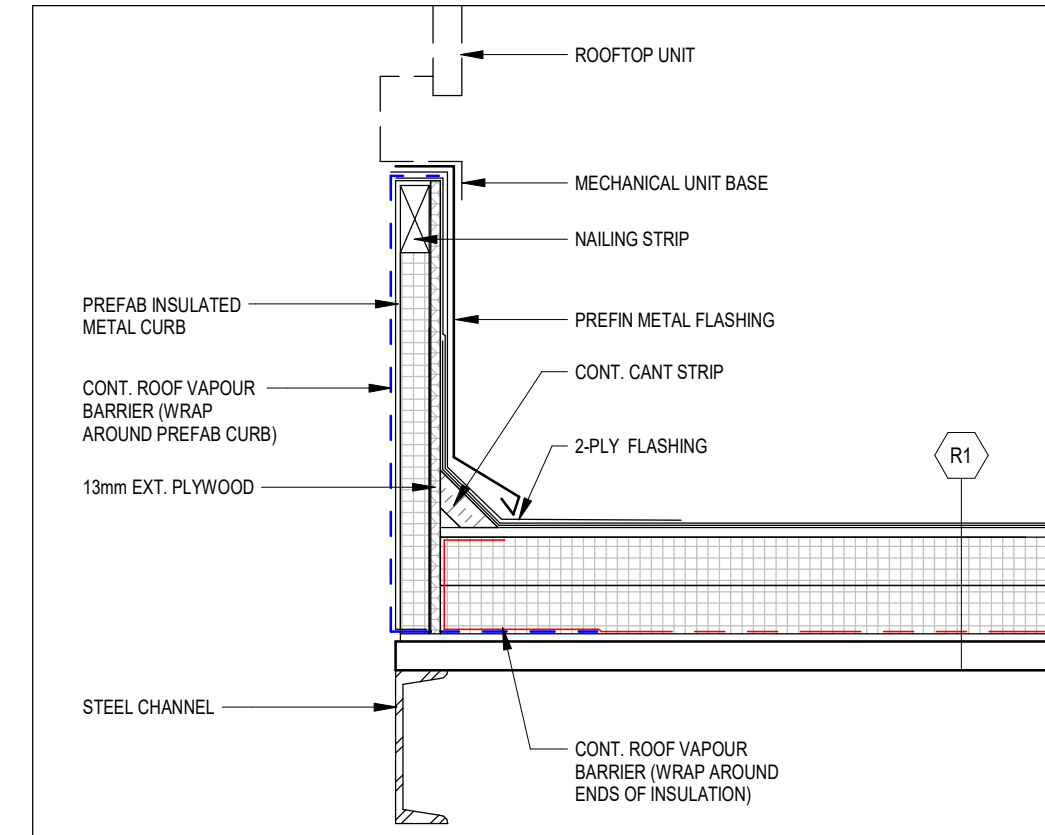
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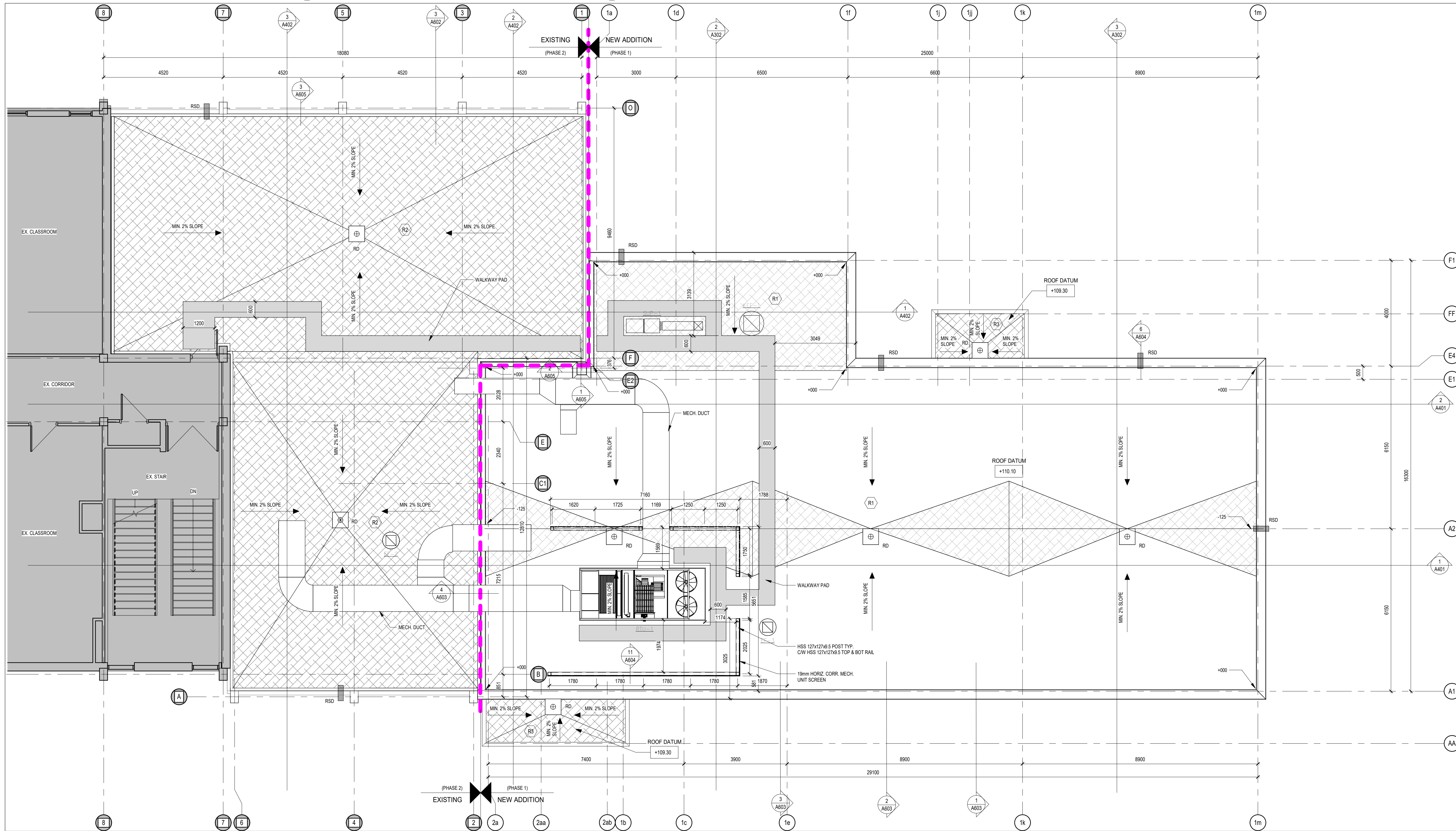
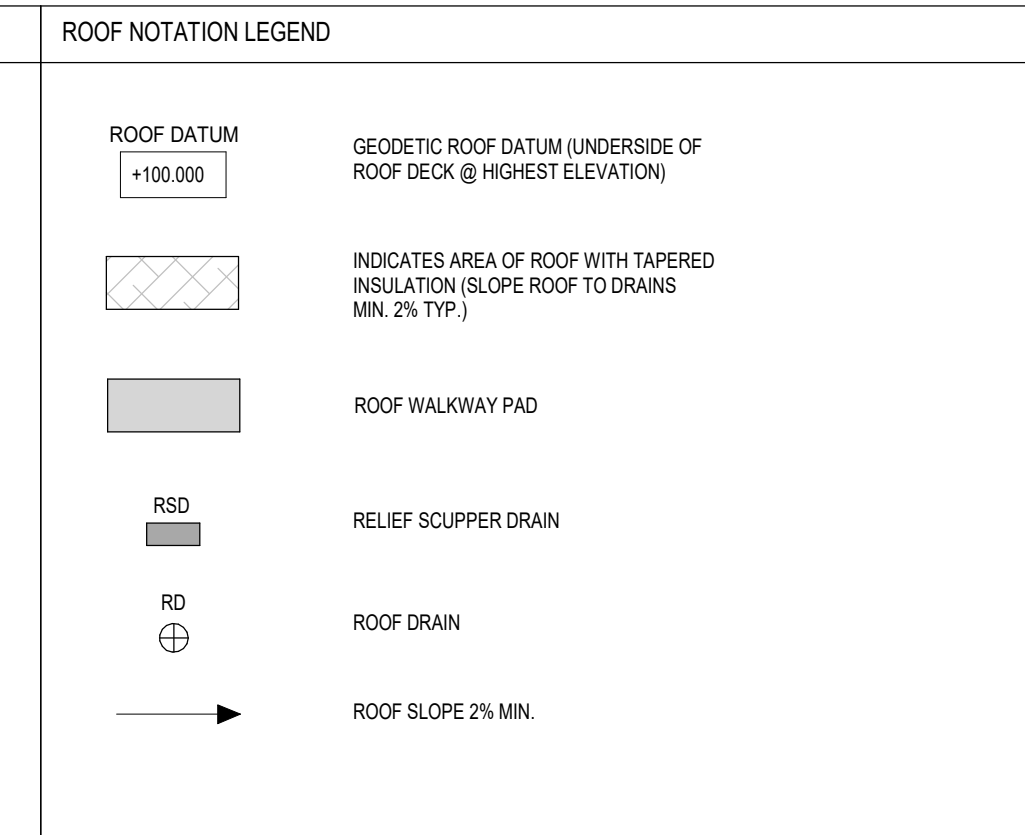
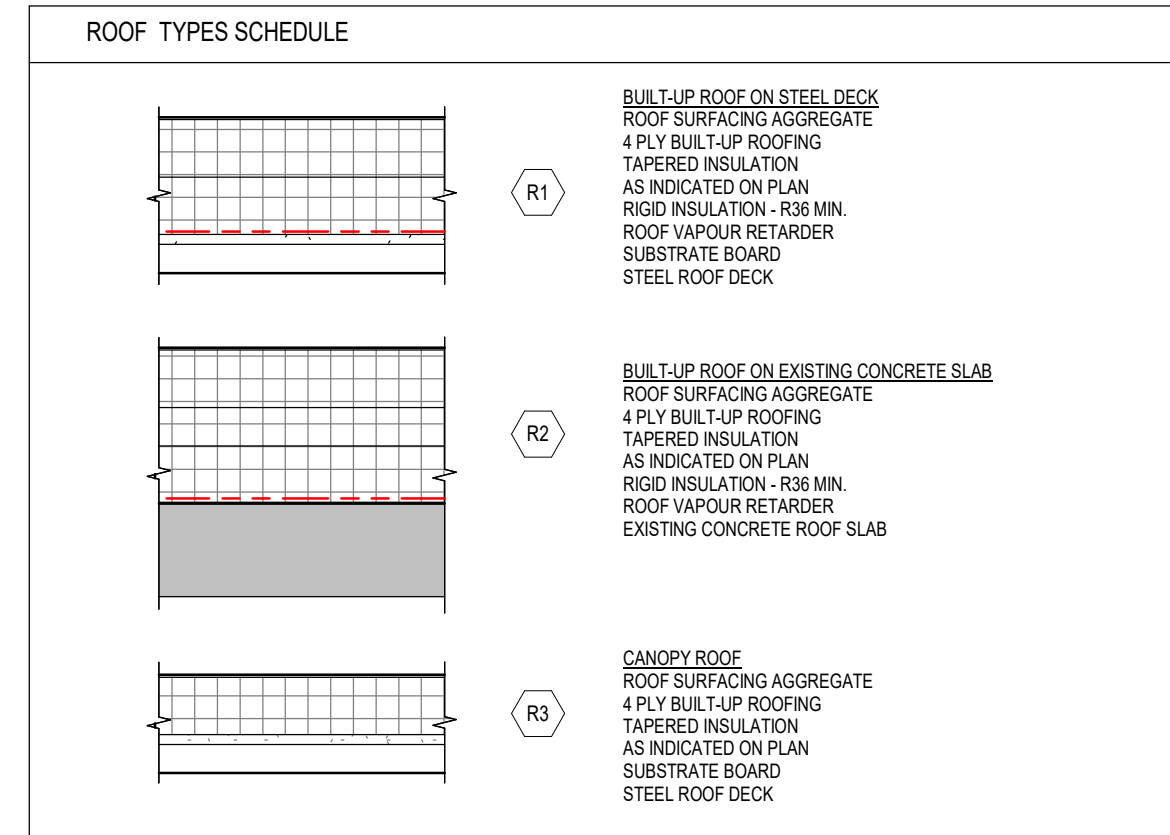
4 TYP. VENT STACK DETAIL
A205 1:10



3 TYP. ROOF DRAIN DETAIL
A205 1:10



2 TYP. ROOF CURB DETAIL
A205 1:10



1 PART SECOND FLOOR / LOW ROOF
A205 1:75

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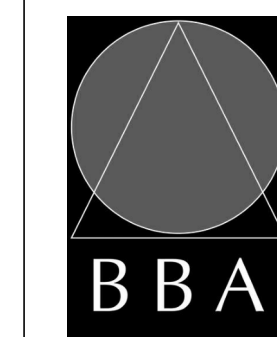
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GARDARIE LA FARANDOLE

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DRAWING:
**PART SECOND FLOOR /
ROOF PLAN**



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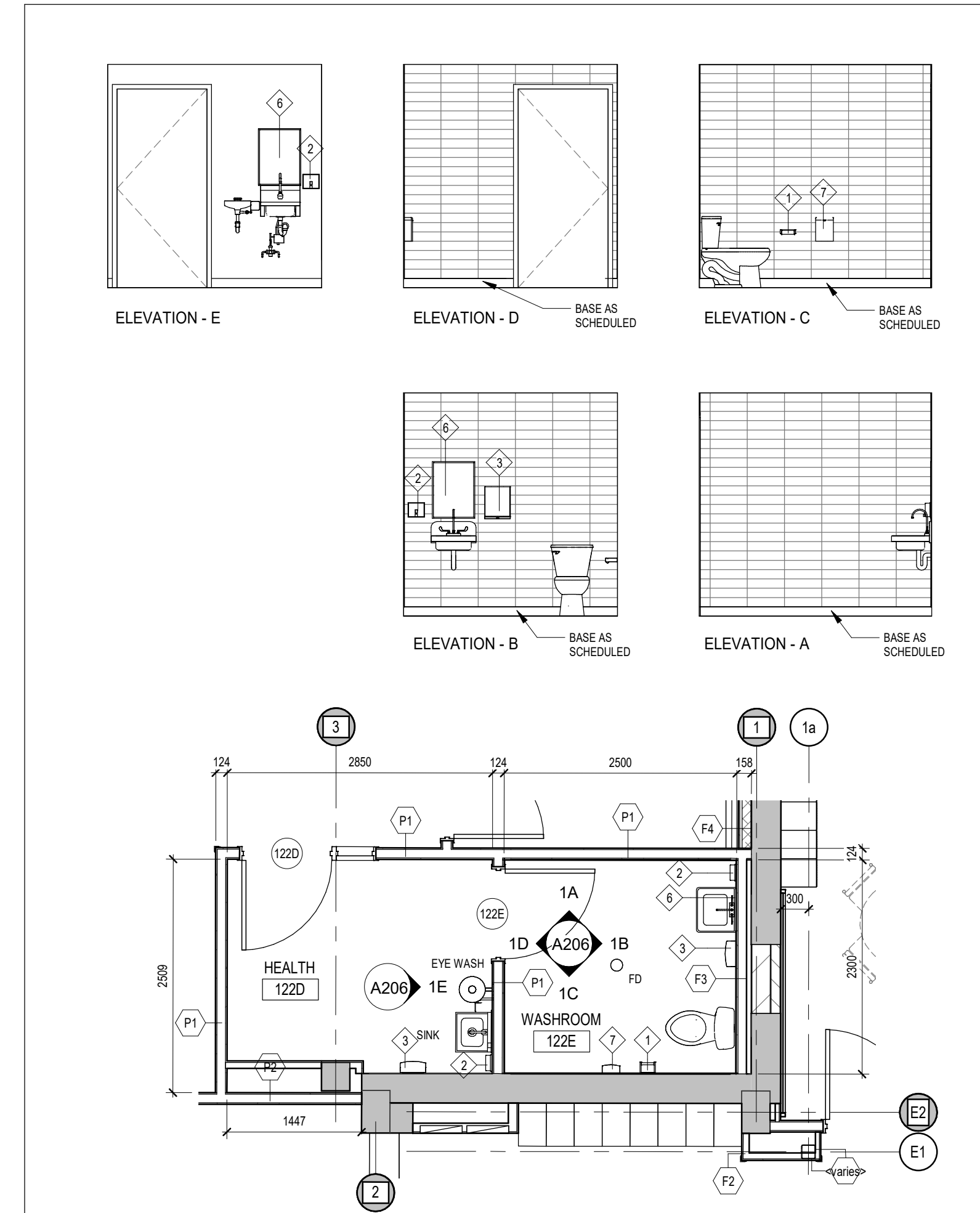
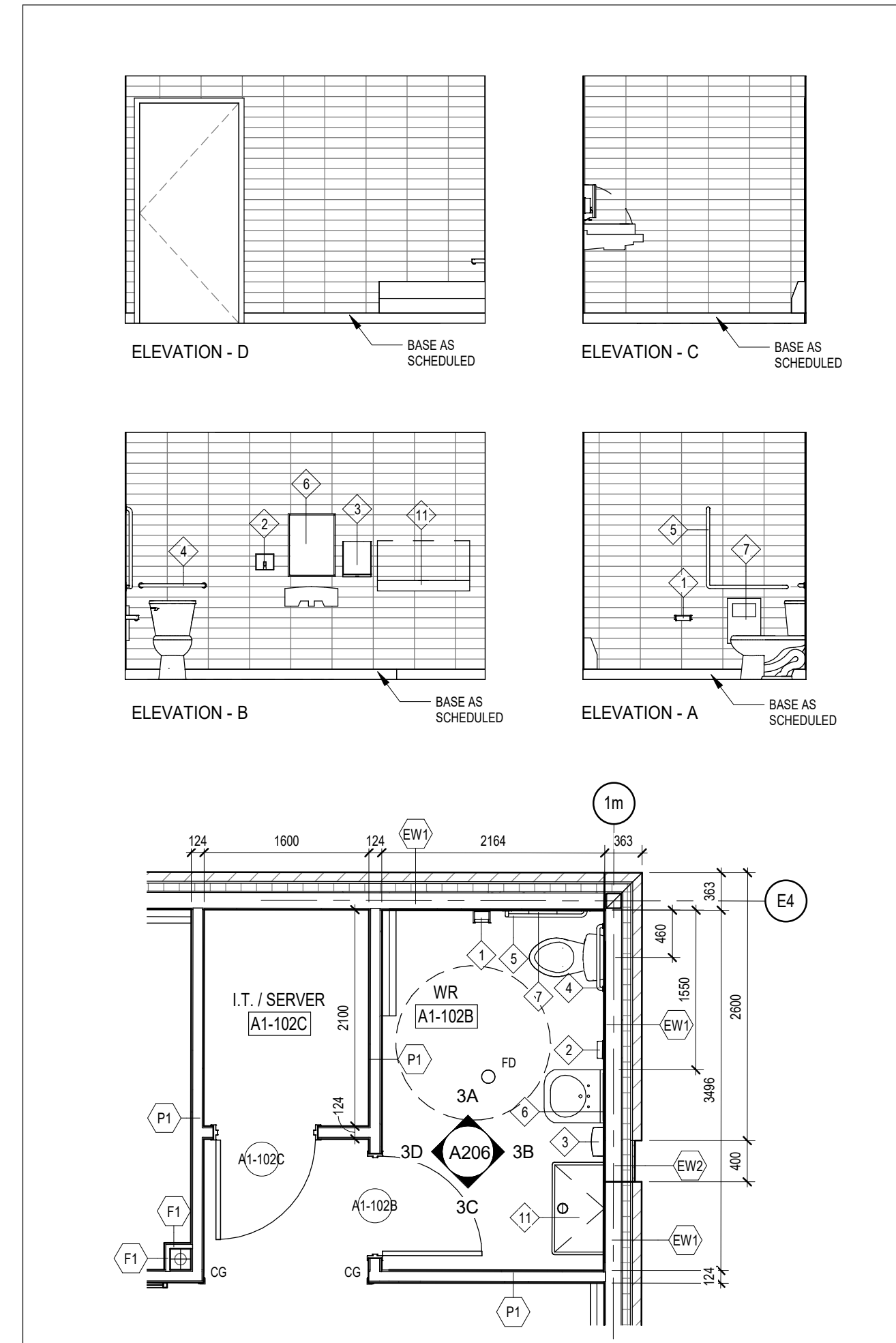
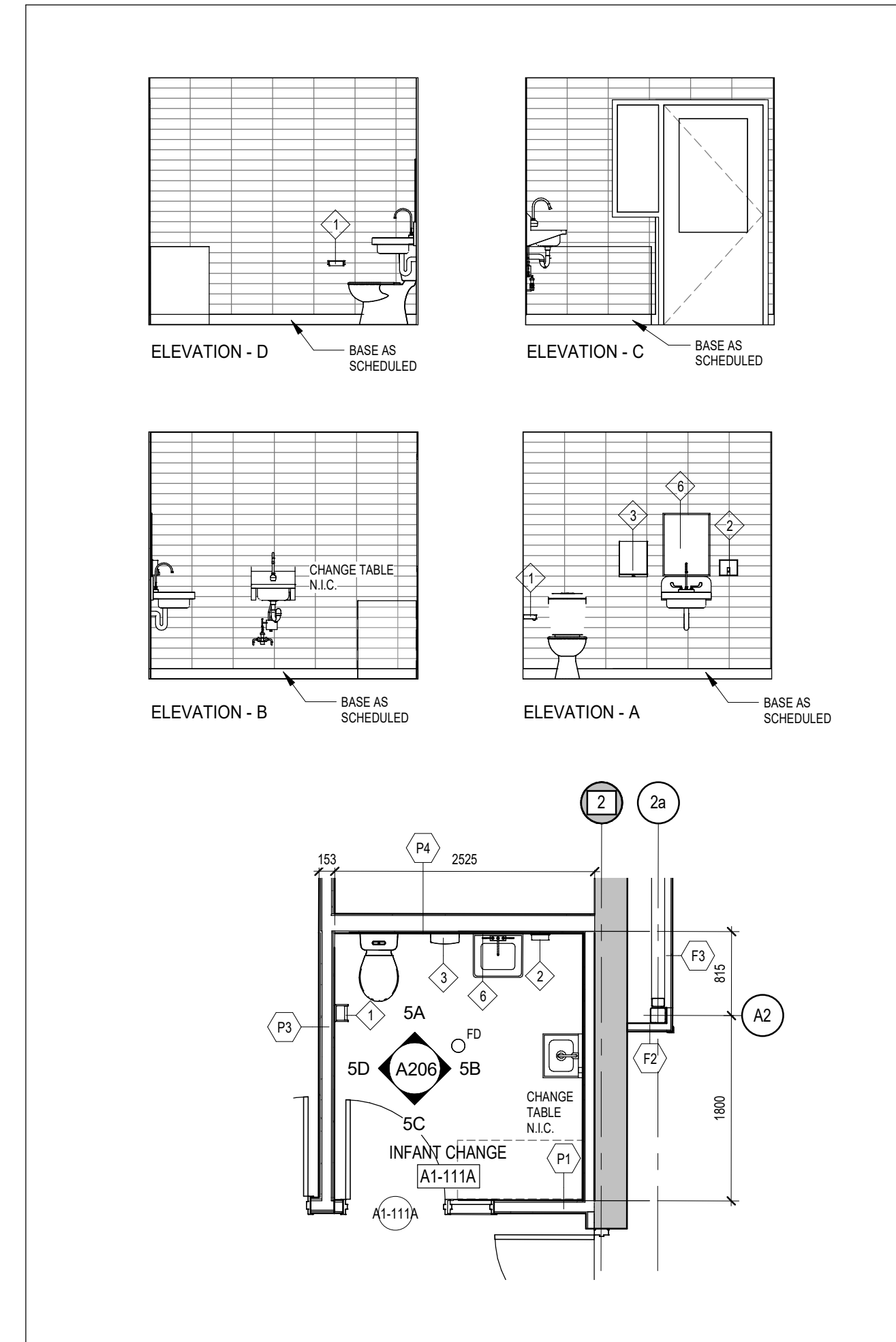
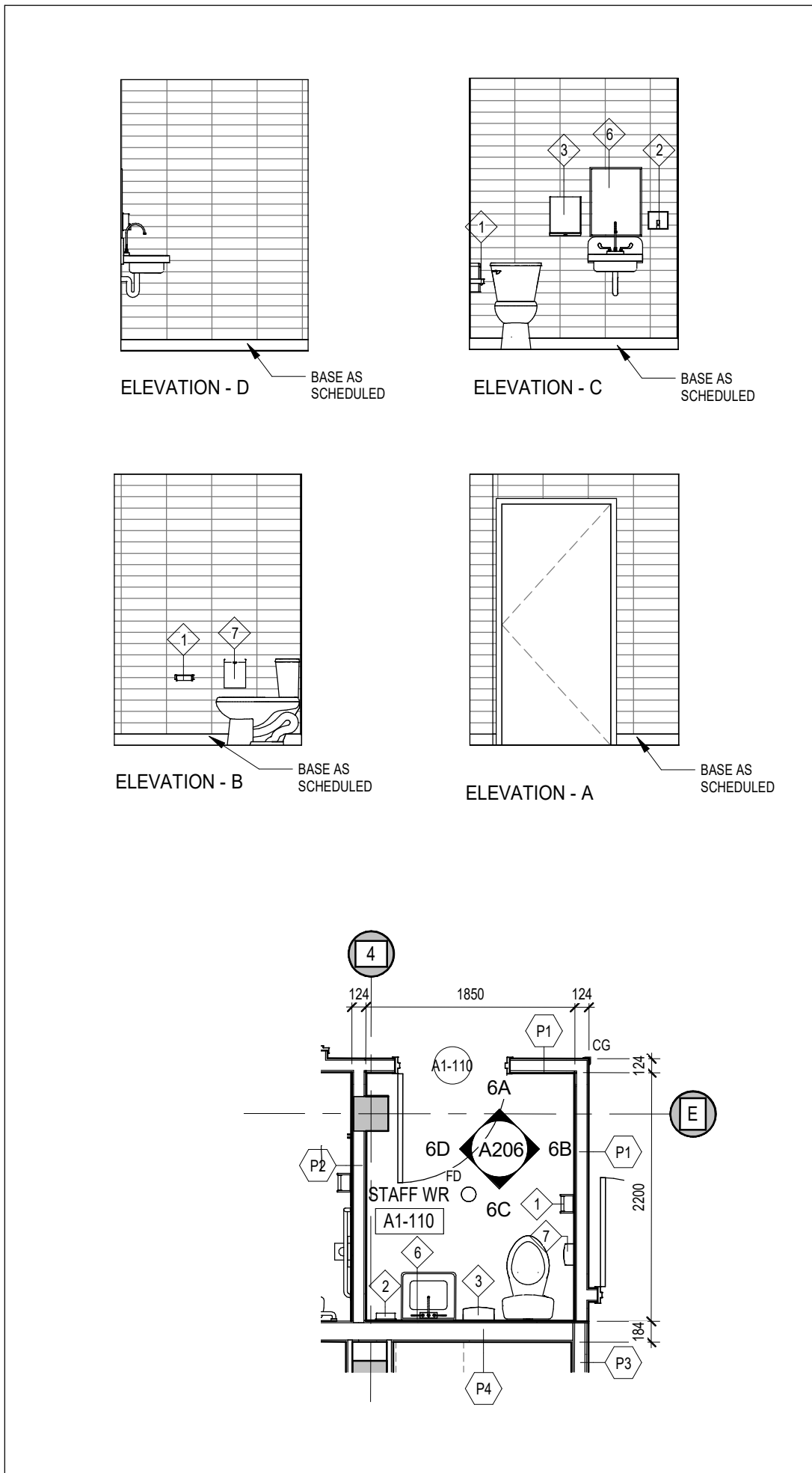
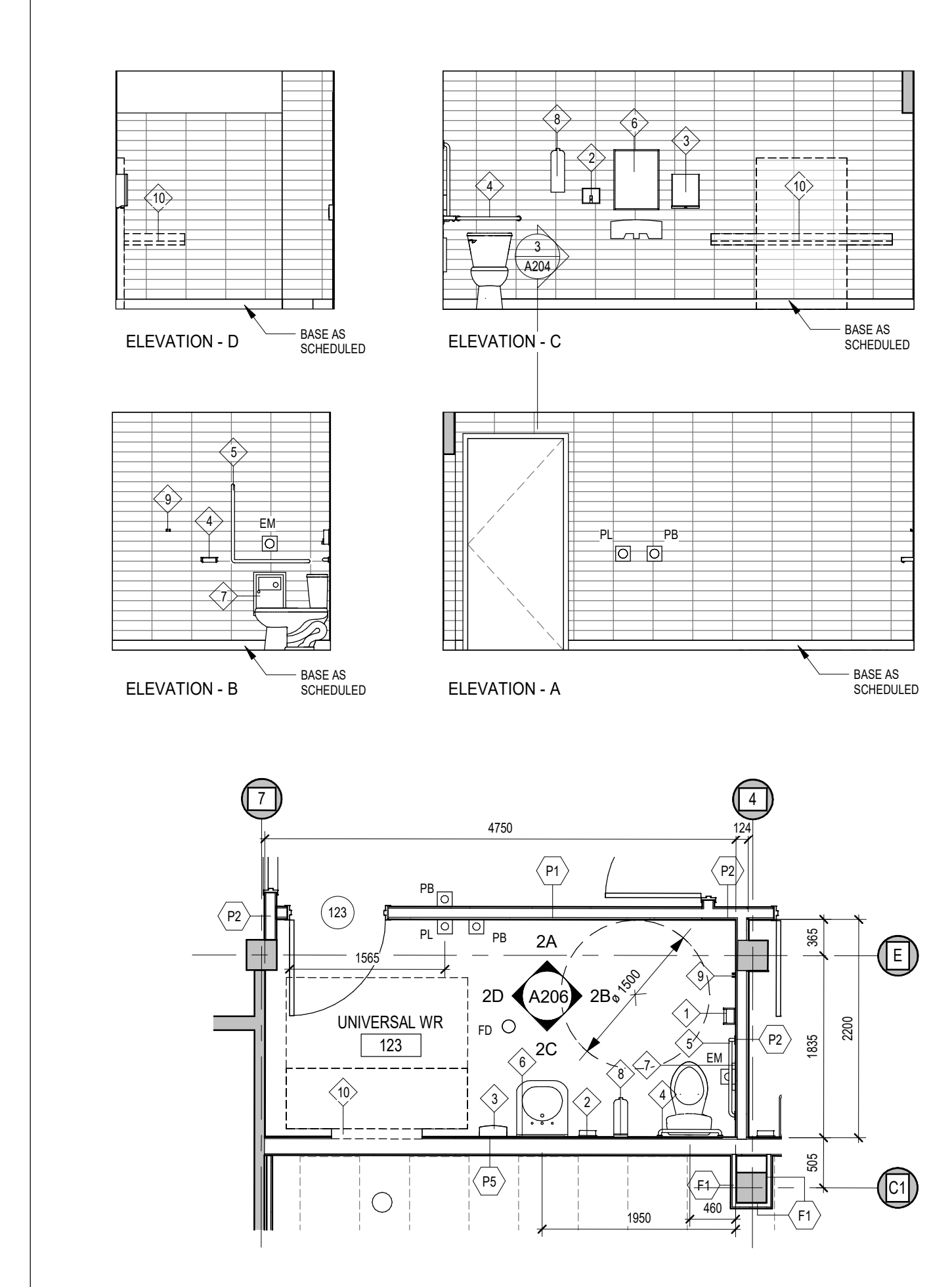
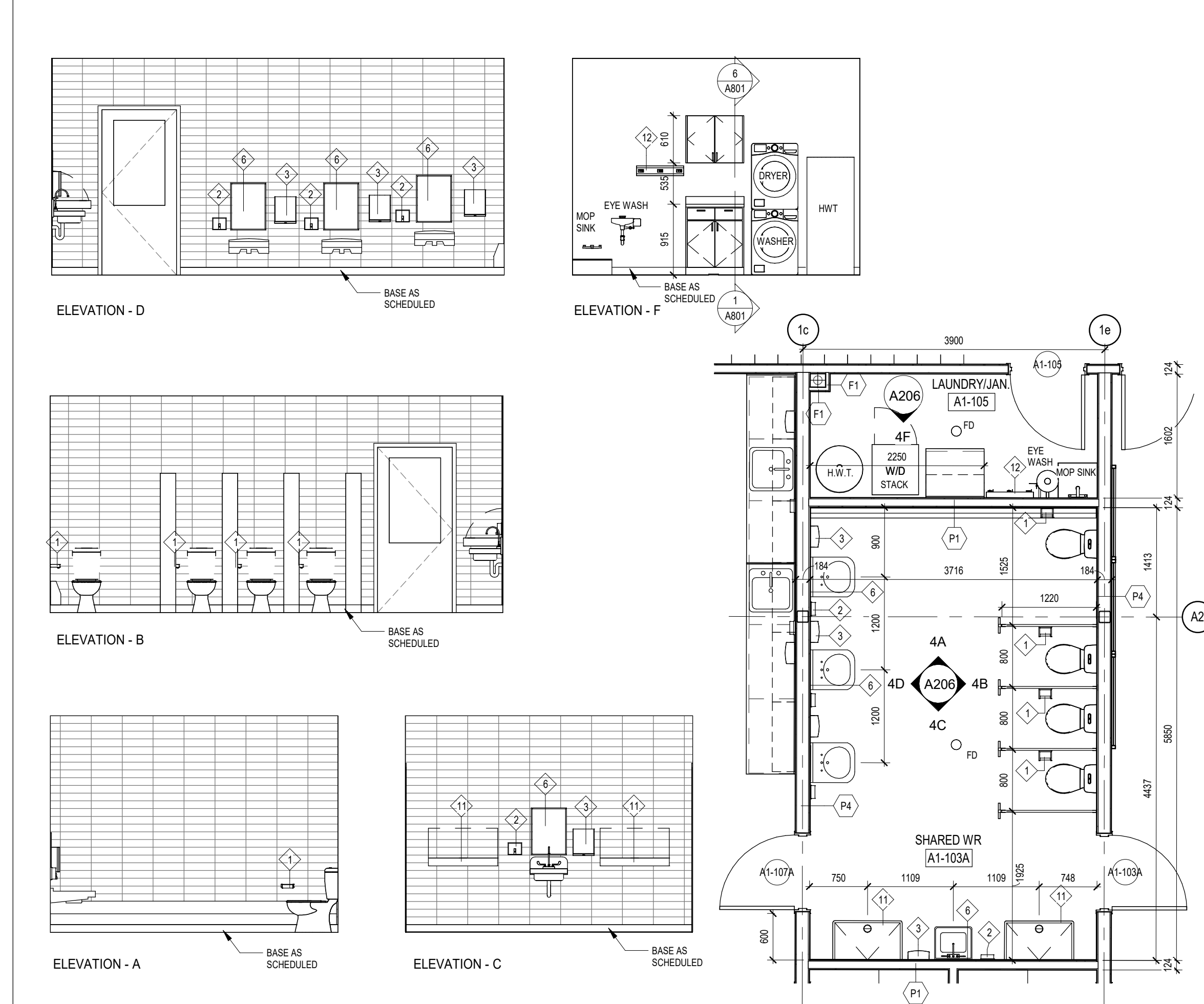
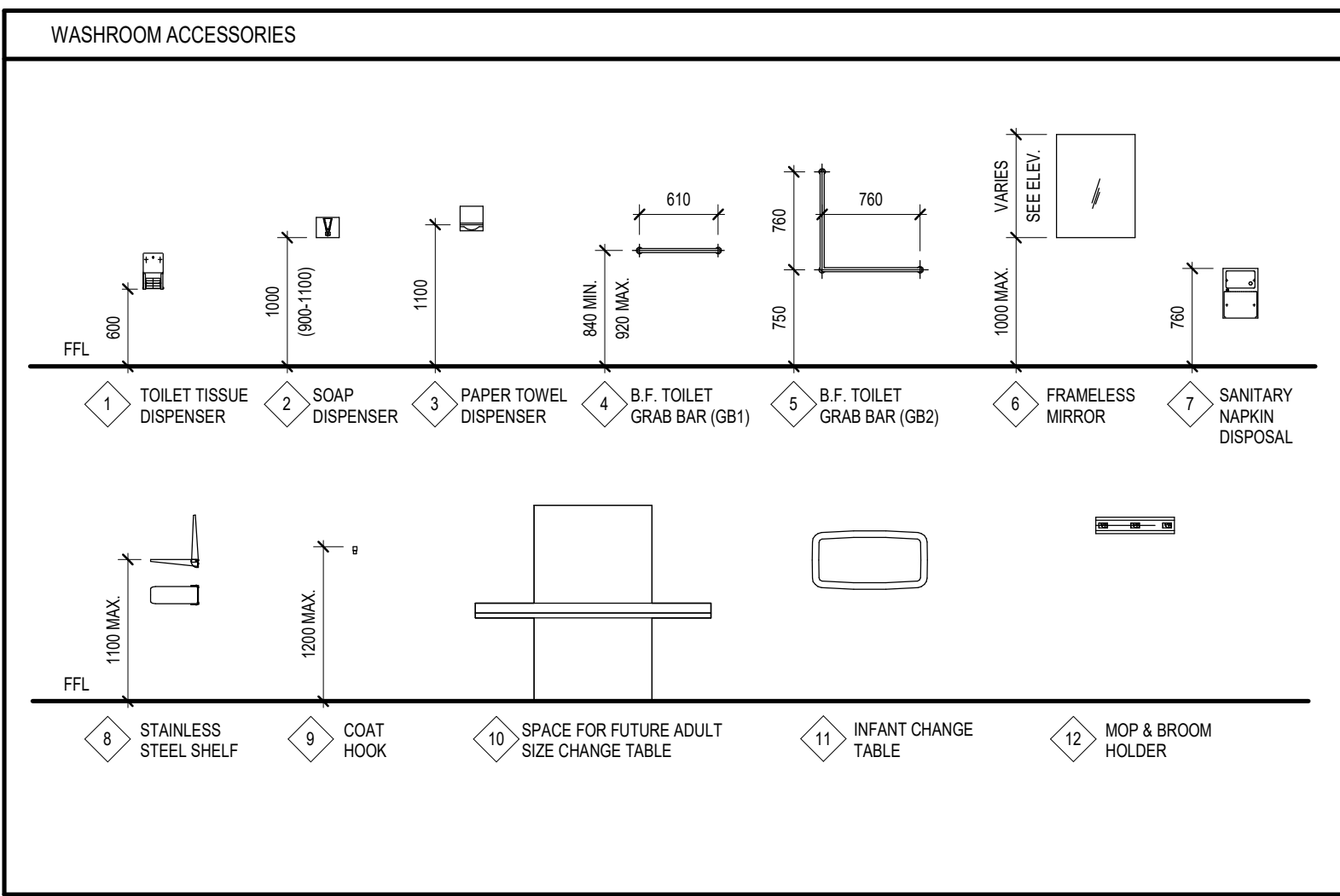
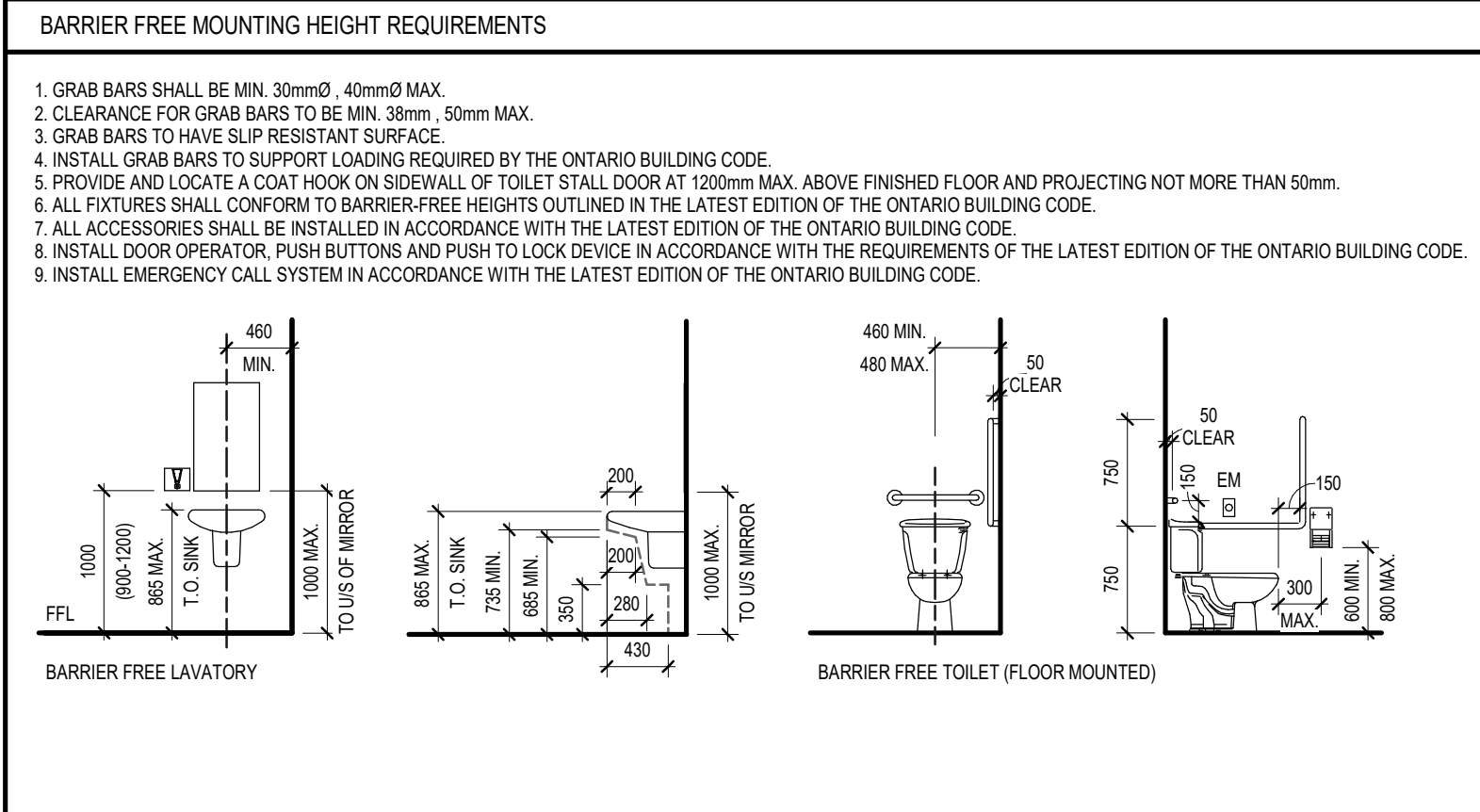
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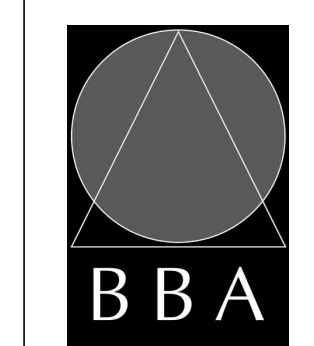
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
**ENLARGED WASHROOM
PLANS & INTERIOR
ELEVATIONS**



**BARRY BRYAN
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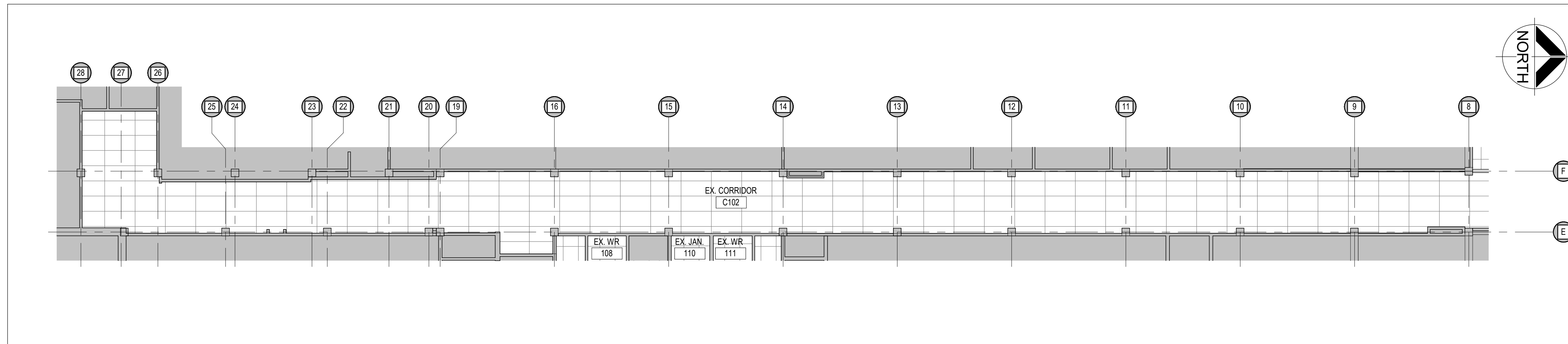
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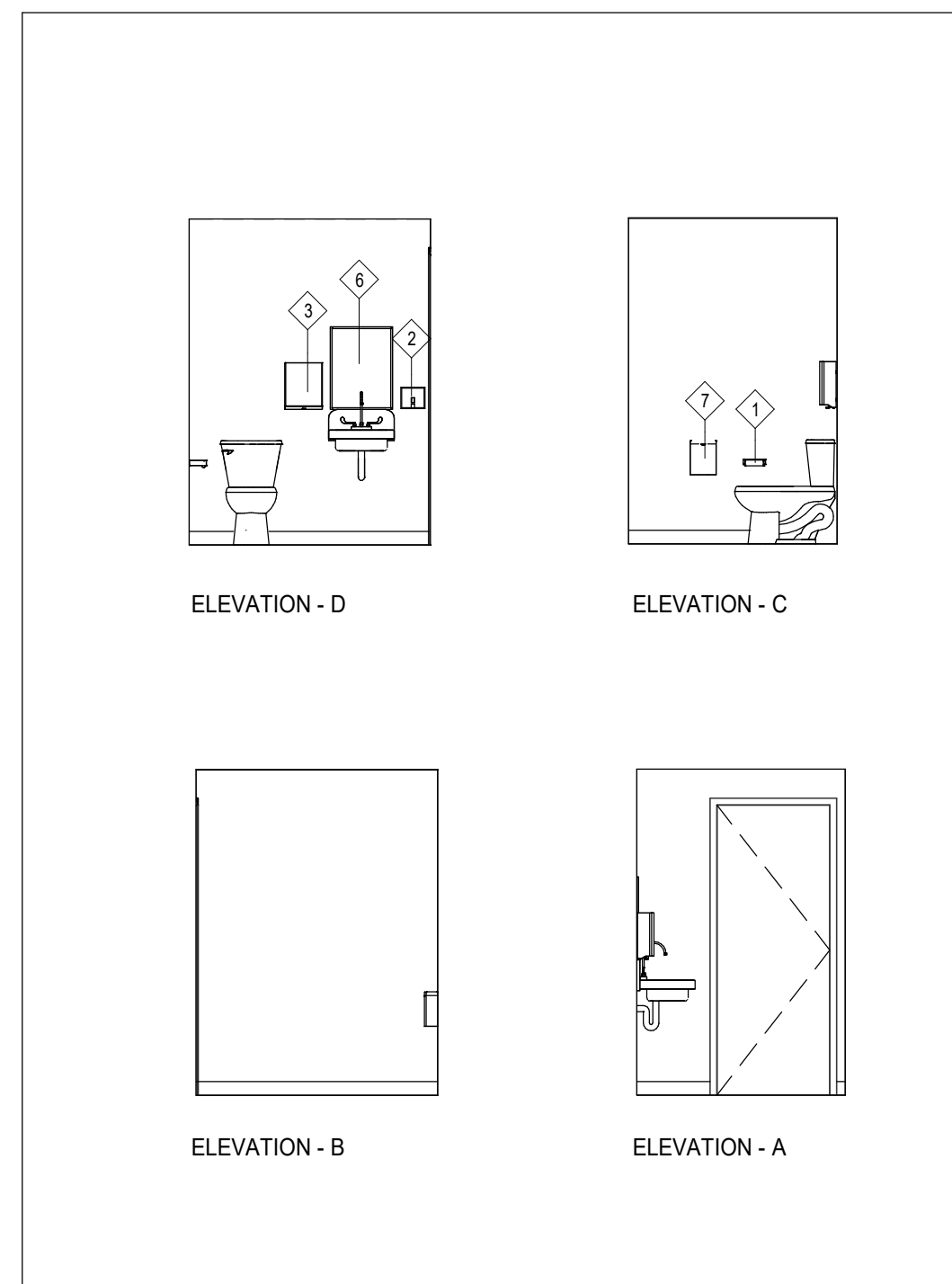
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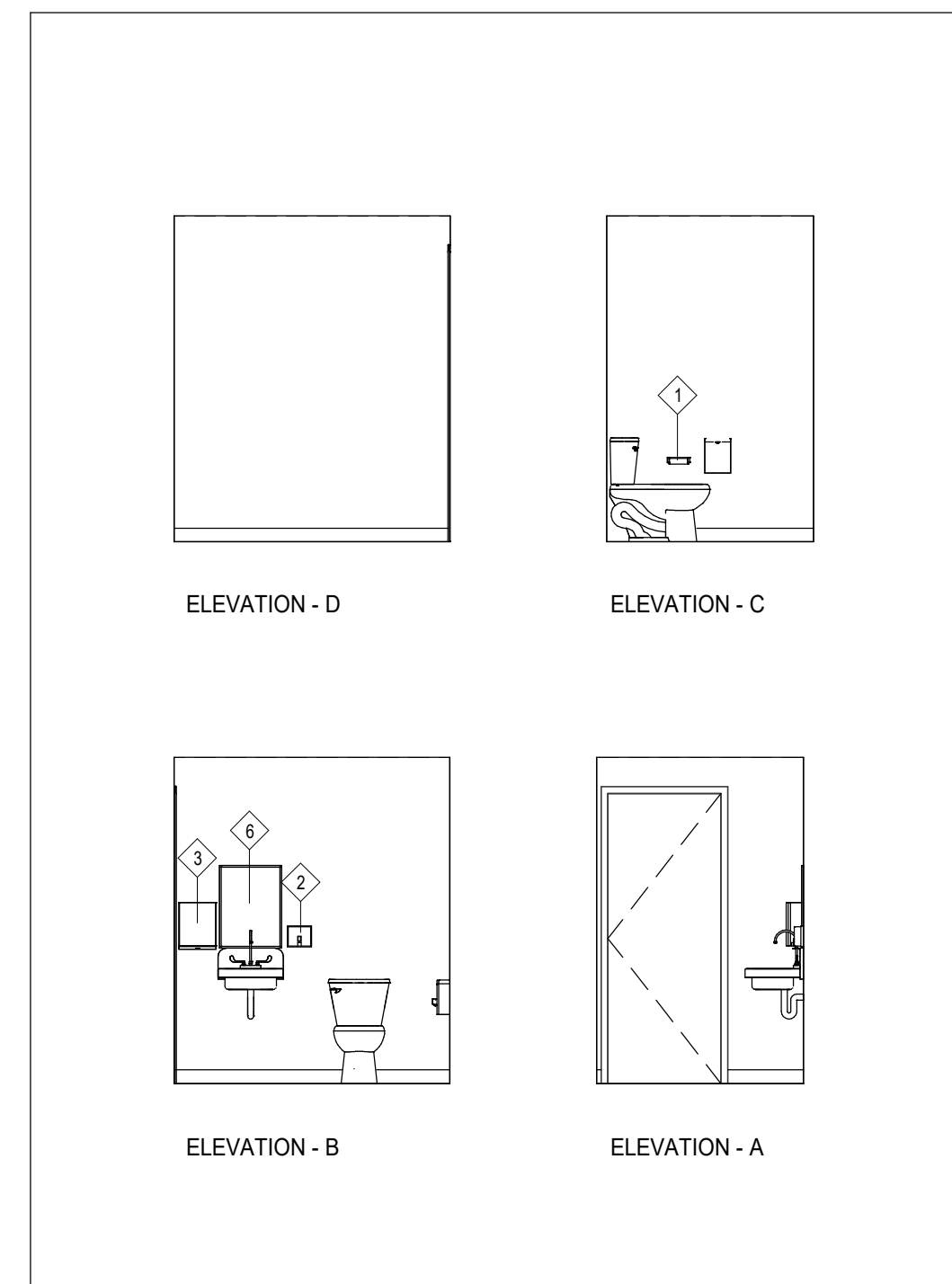
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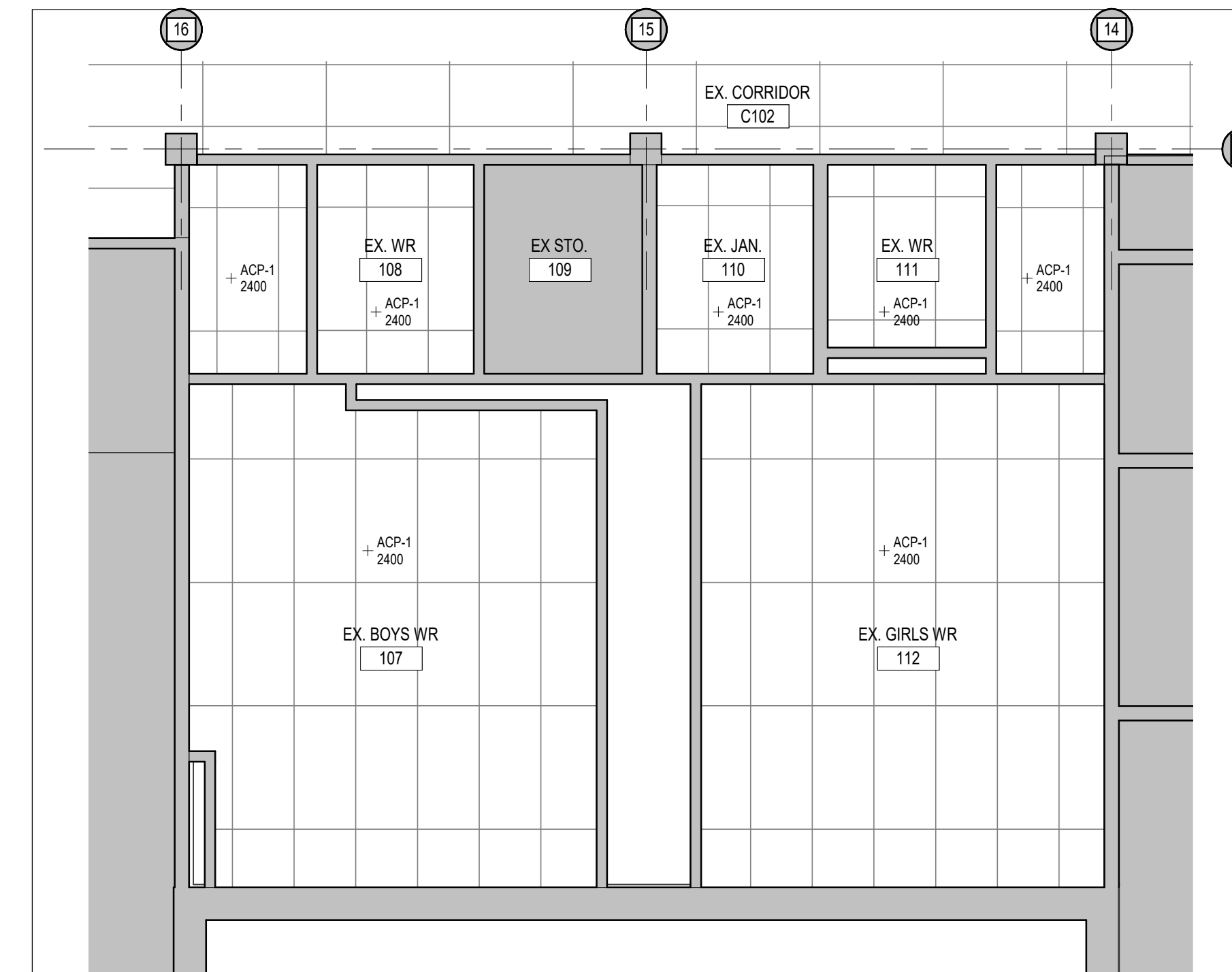
7 GROUND FLOOR CORRIDOR C102 NEW CEILING PLAN
A207 1:100



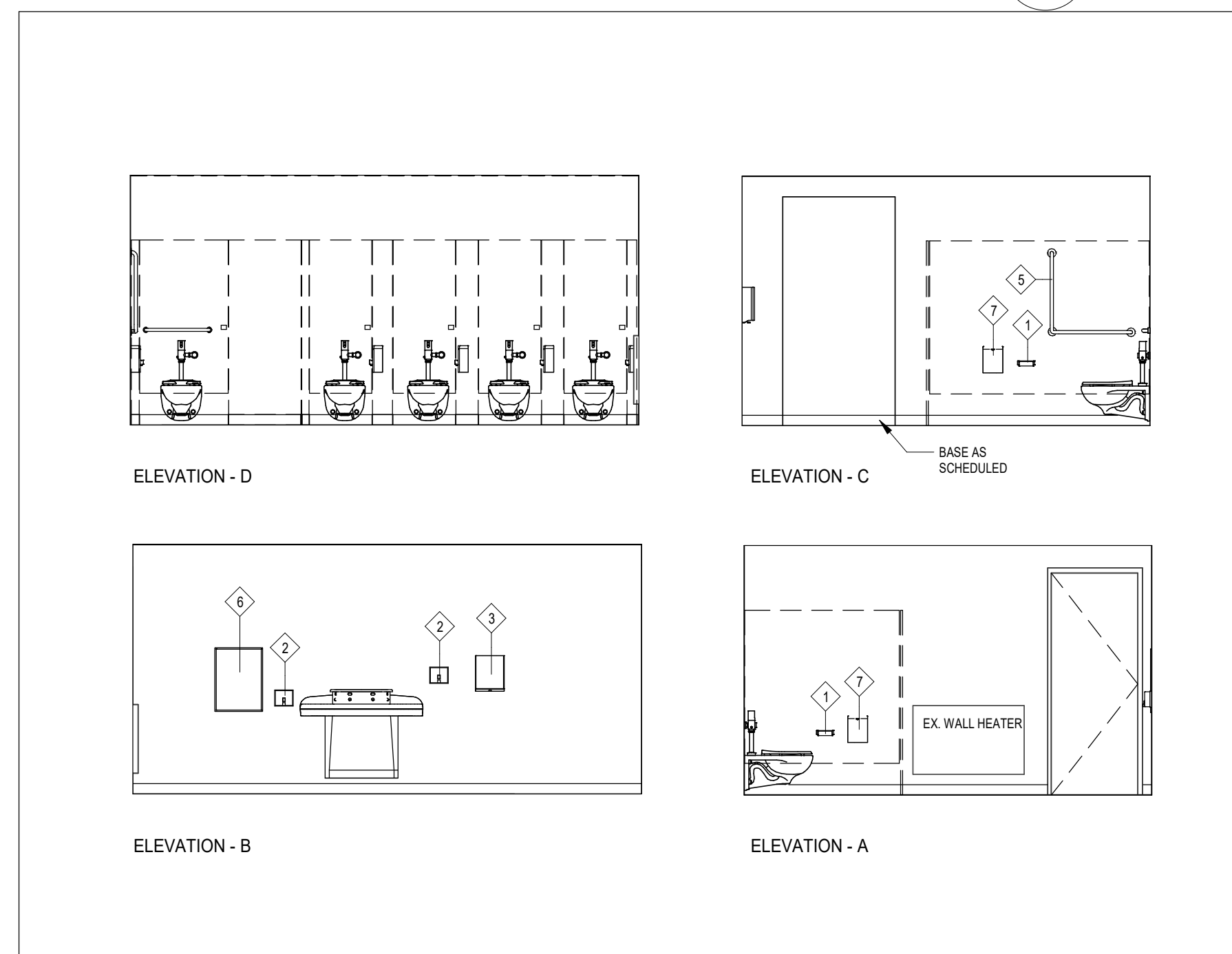
6 WASHROOM 111 INTERIOR ELEVATIONS
A207 1:50



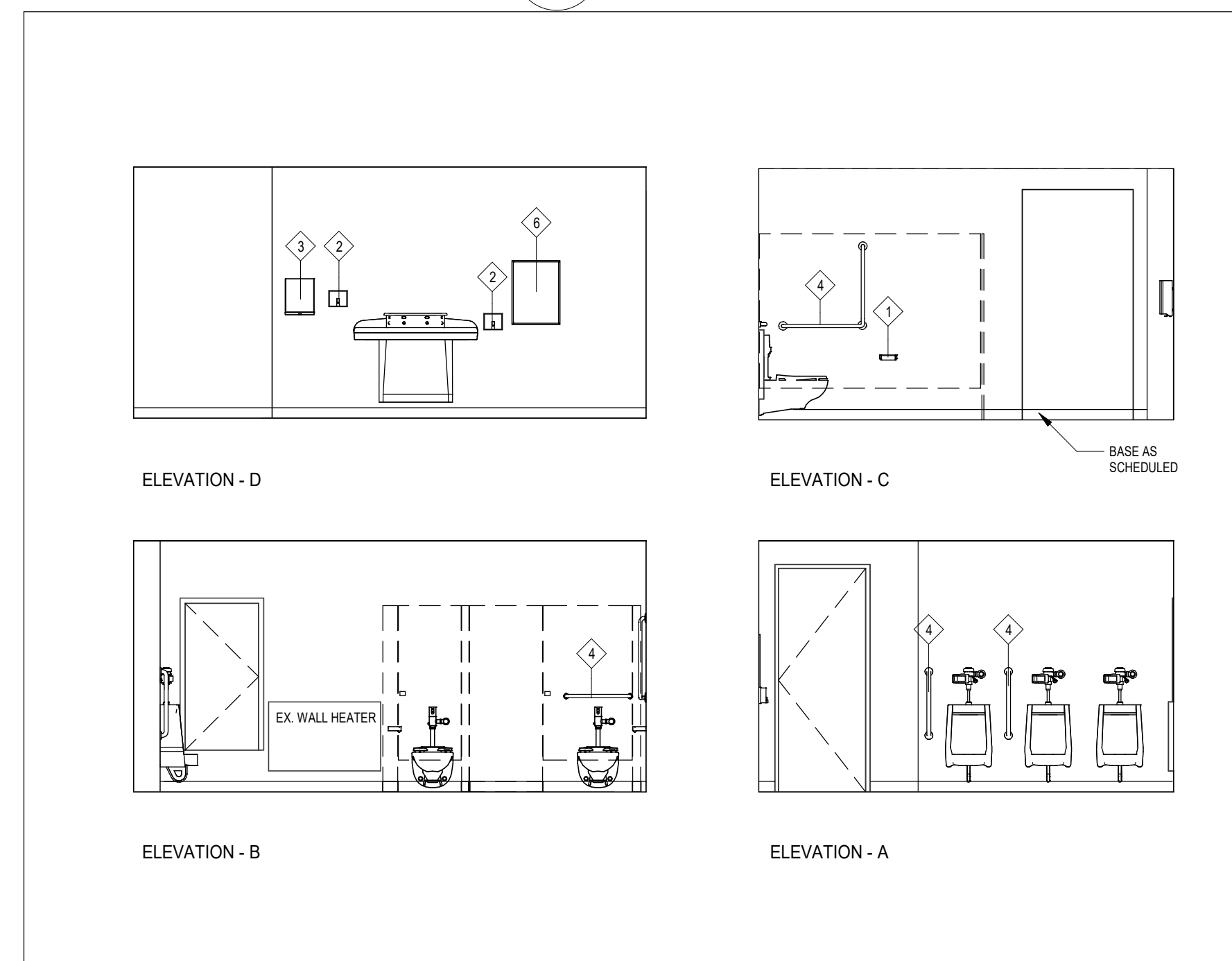
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A207 1:50



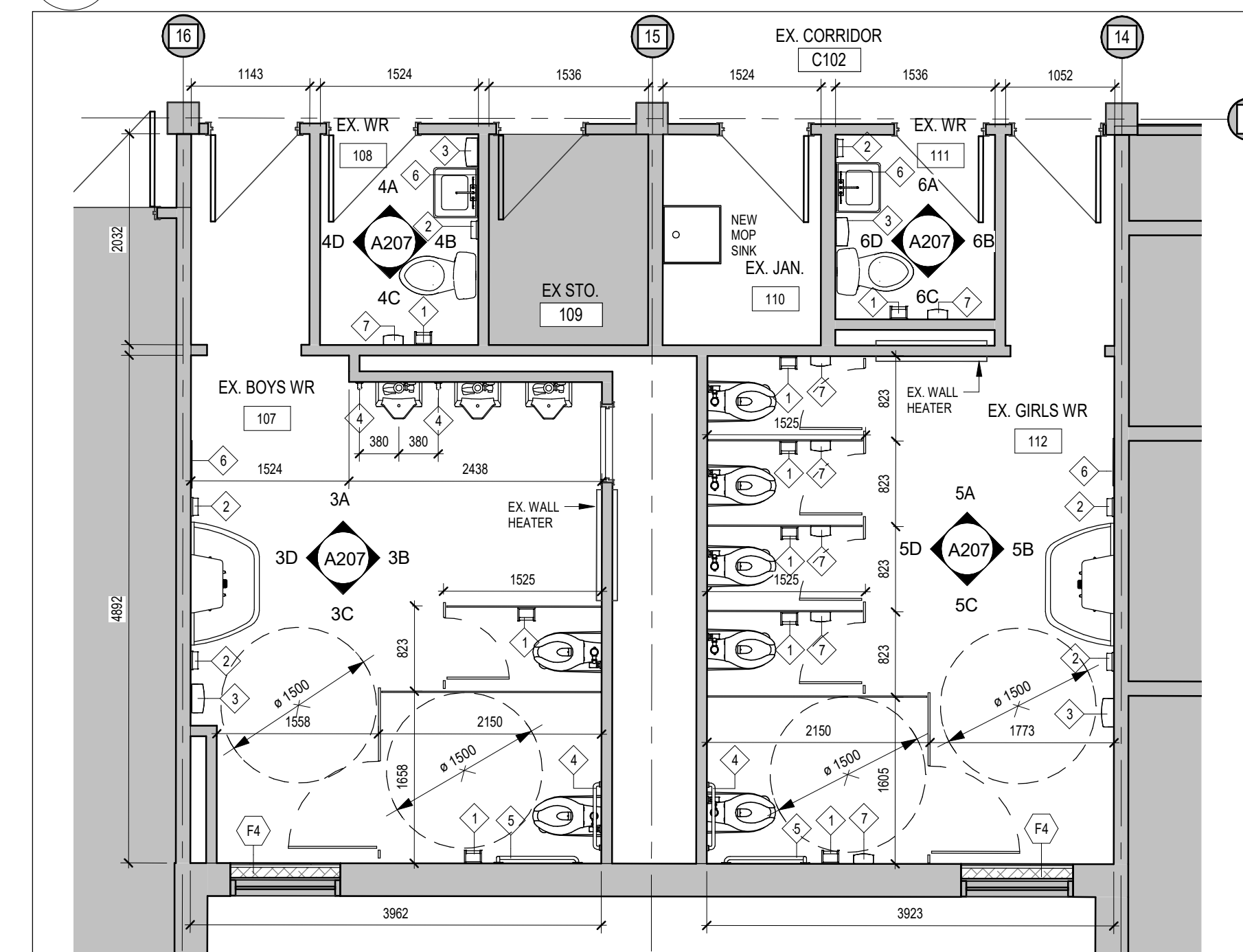
2 WASHROOM 107, 108, 110, 111 & 112 NEW CEILING PLAN
A207 1:50



5 WASHROOM 112 INTERIOR ELEVATIONS
A207 1:50



3 WASHROOM 107 INTERIOR ELEVATIONS
A207 1:50



1 WASHROOM 107, 108, 111 & 112 PLAN
A207 1:50

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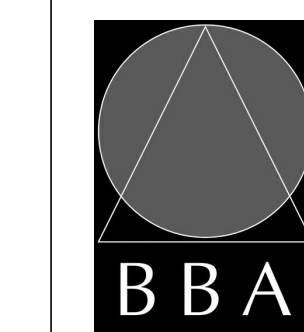
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PROJECT:
GARDARIE LA FARANDOLE

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DRAWING:
**ENLARGED WASHROOM
PLAN & INTERIOR
ELEVATIONS**



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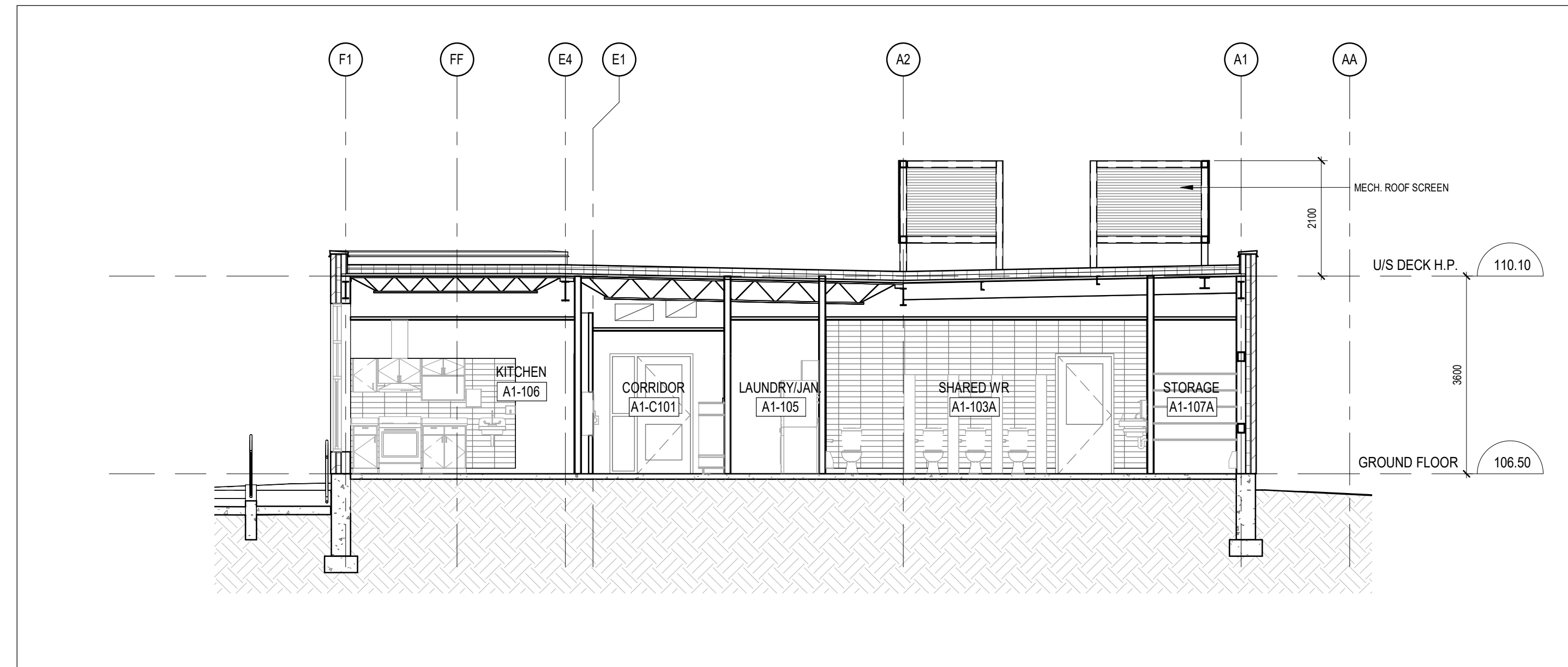
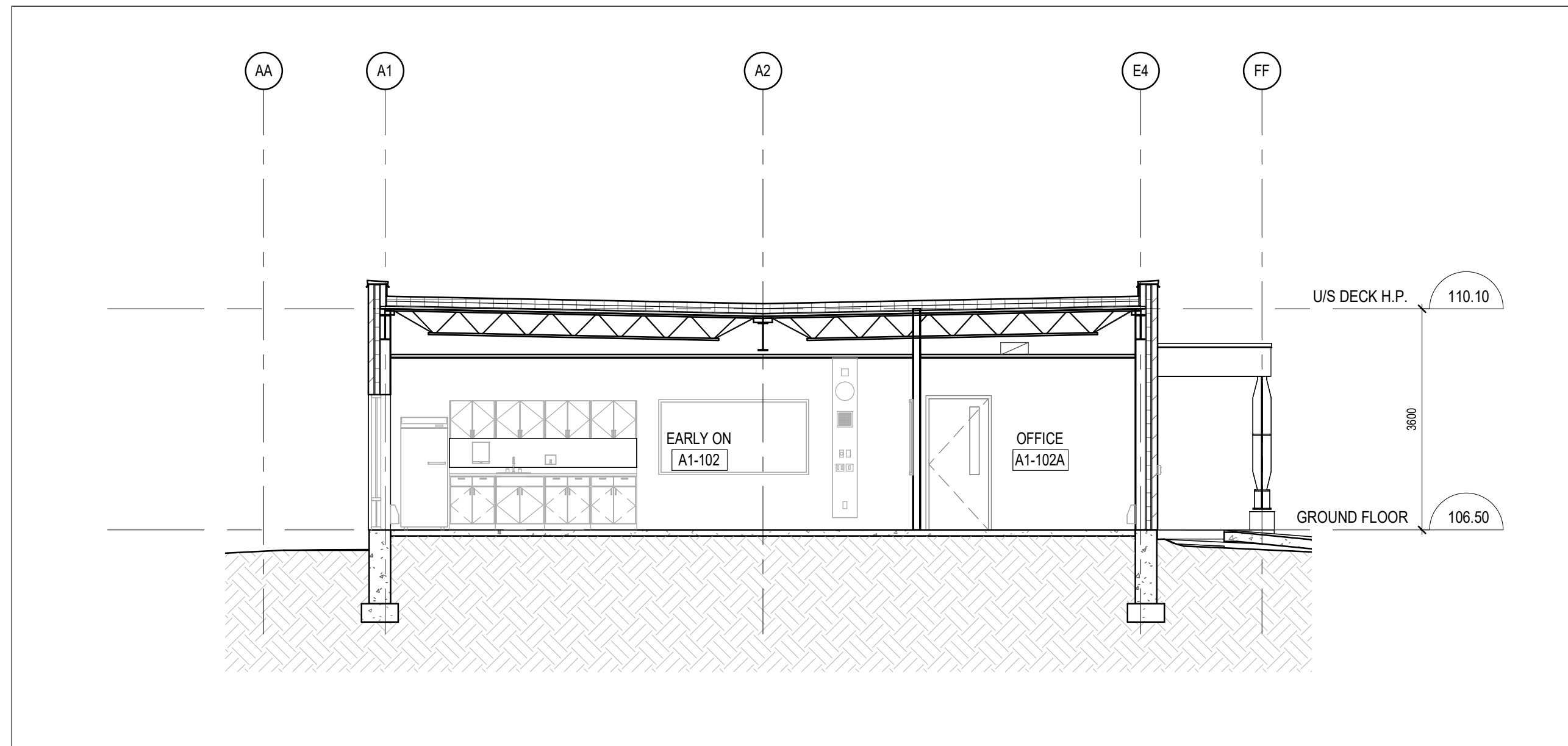
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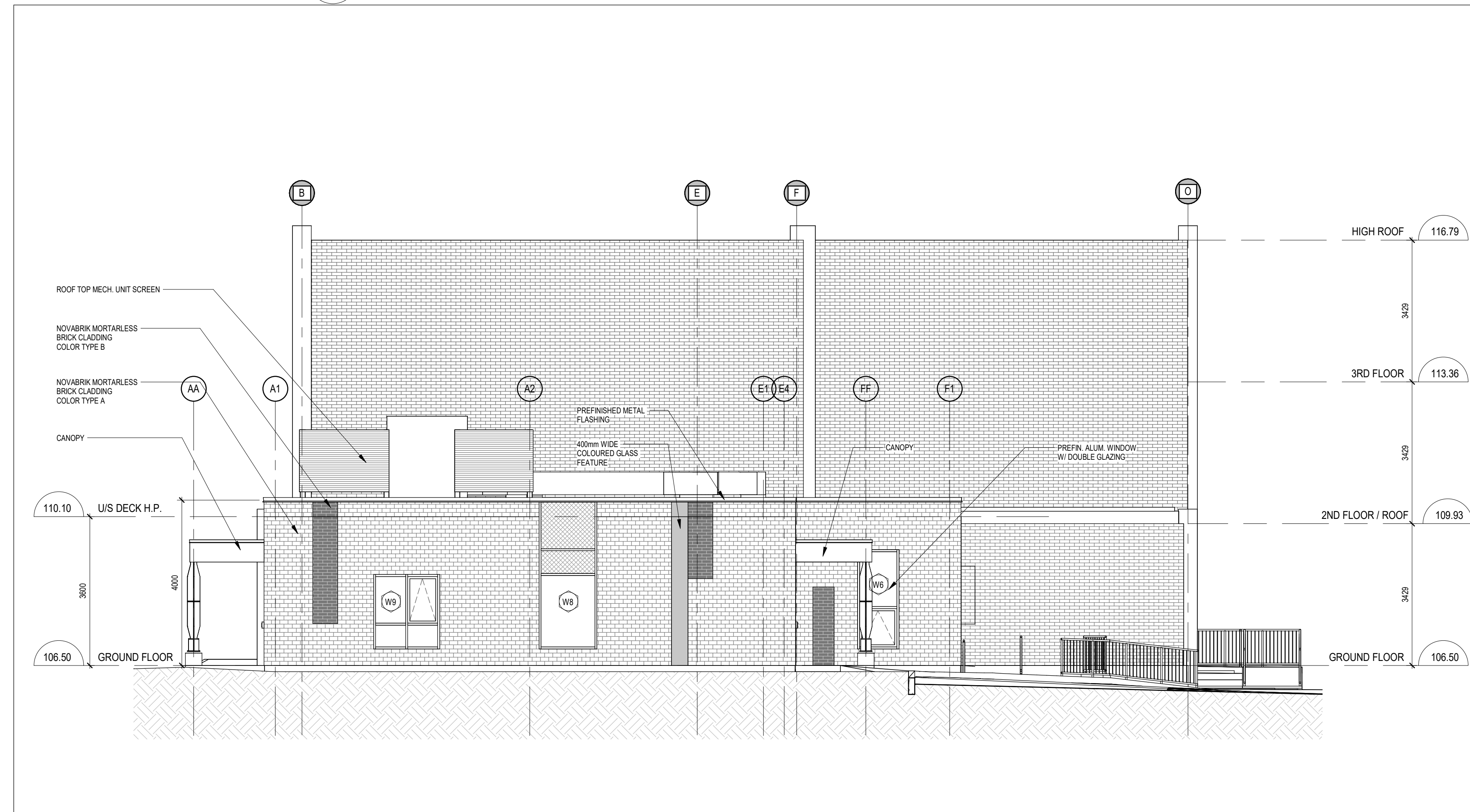
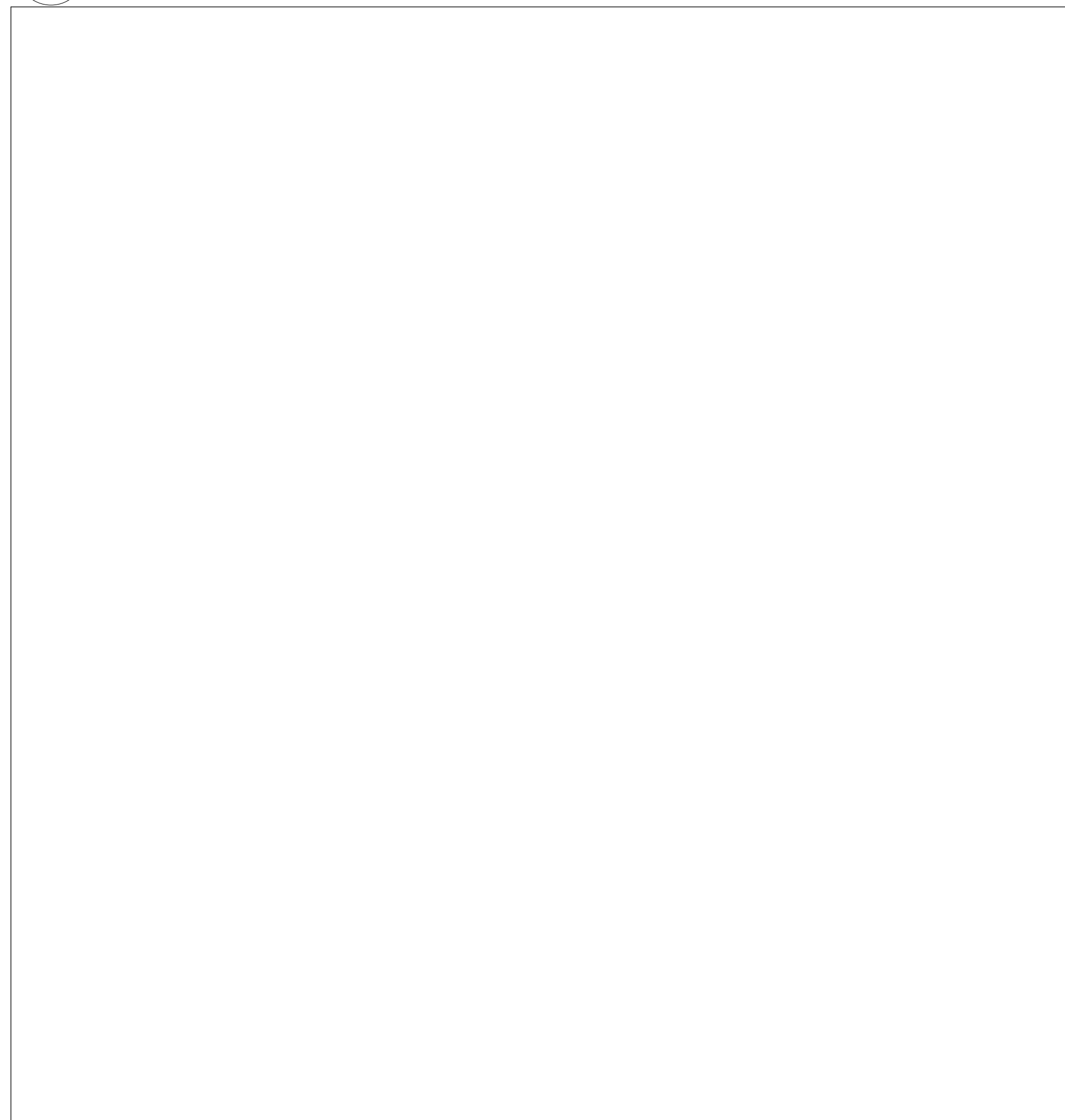


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3 BUILDING SECTION
A302 1:75

2 BUILDING SECTION
A302 1:75

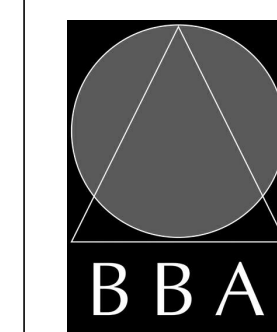


1 NORTH ELEVATION
A302 1:75

PROJECT:
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DRAWING:
ELEVATION & SECTIONS



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18113

DRAWING NO:

A302

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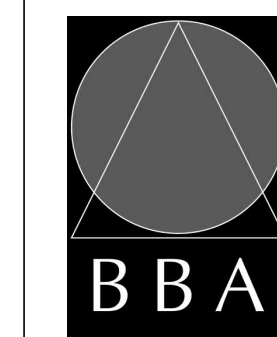
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NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
INTERIOR ELEVATIONS



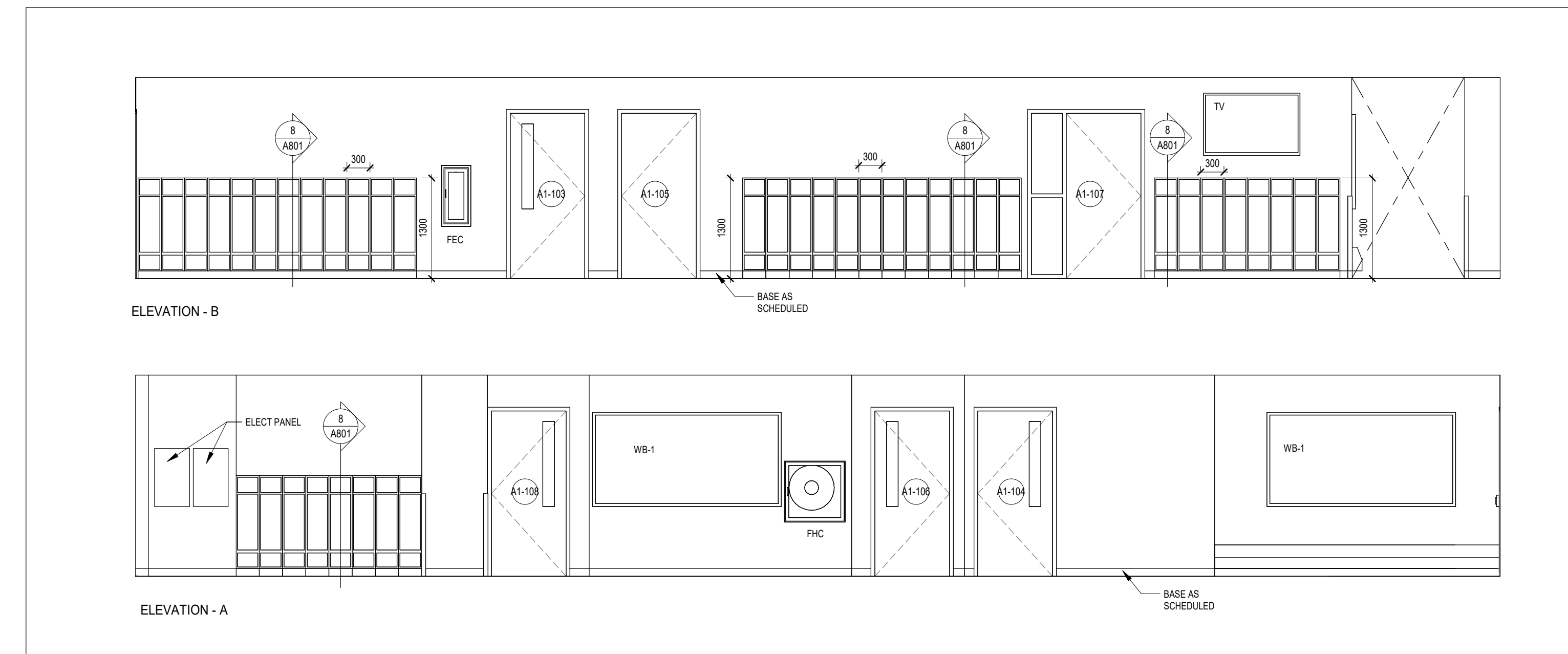
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ASSOCIATES**
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Fax: (905) 666-5256
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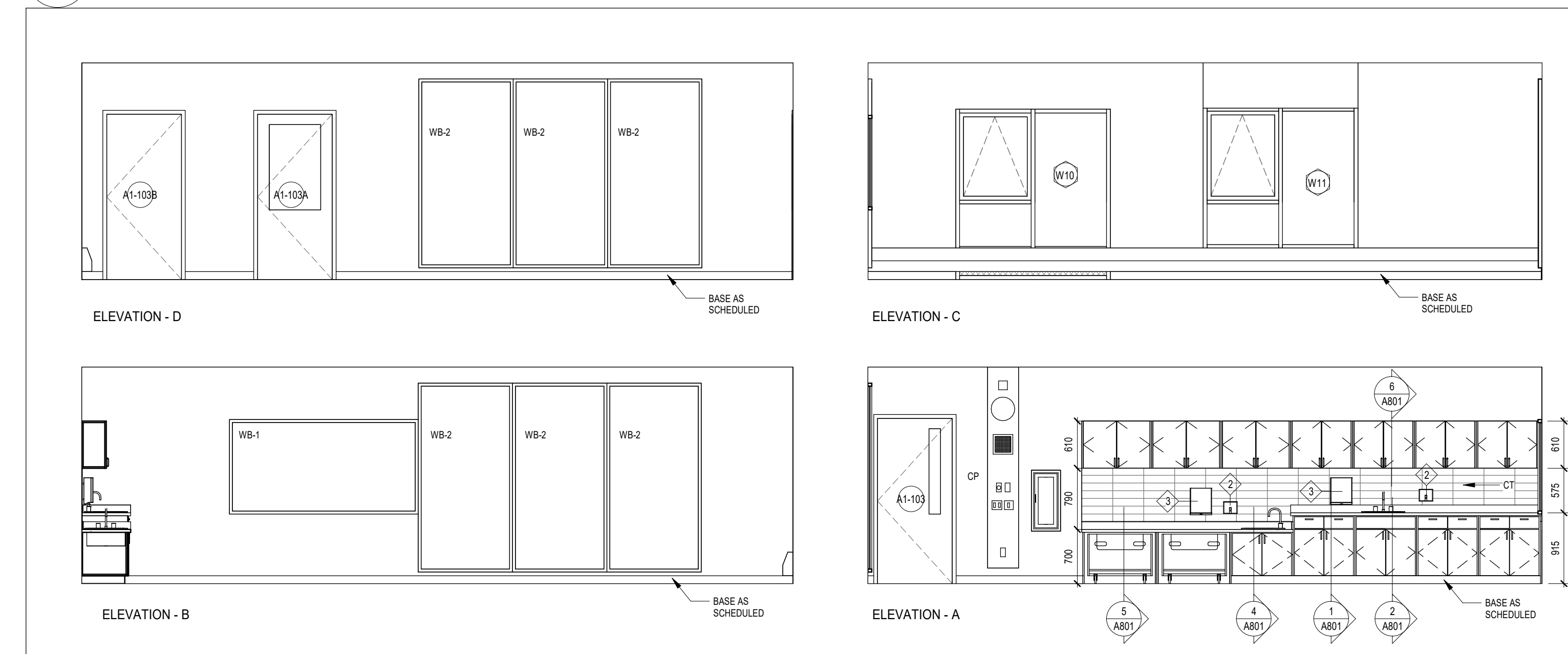
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	Drawings - Current - 18113.RVT

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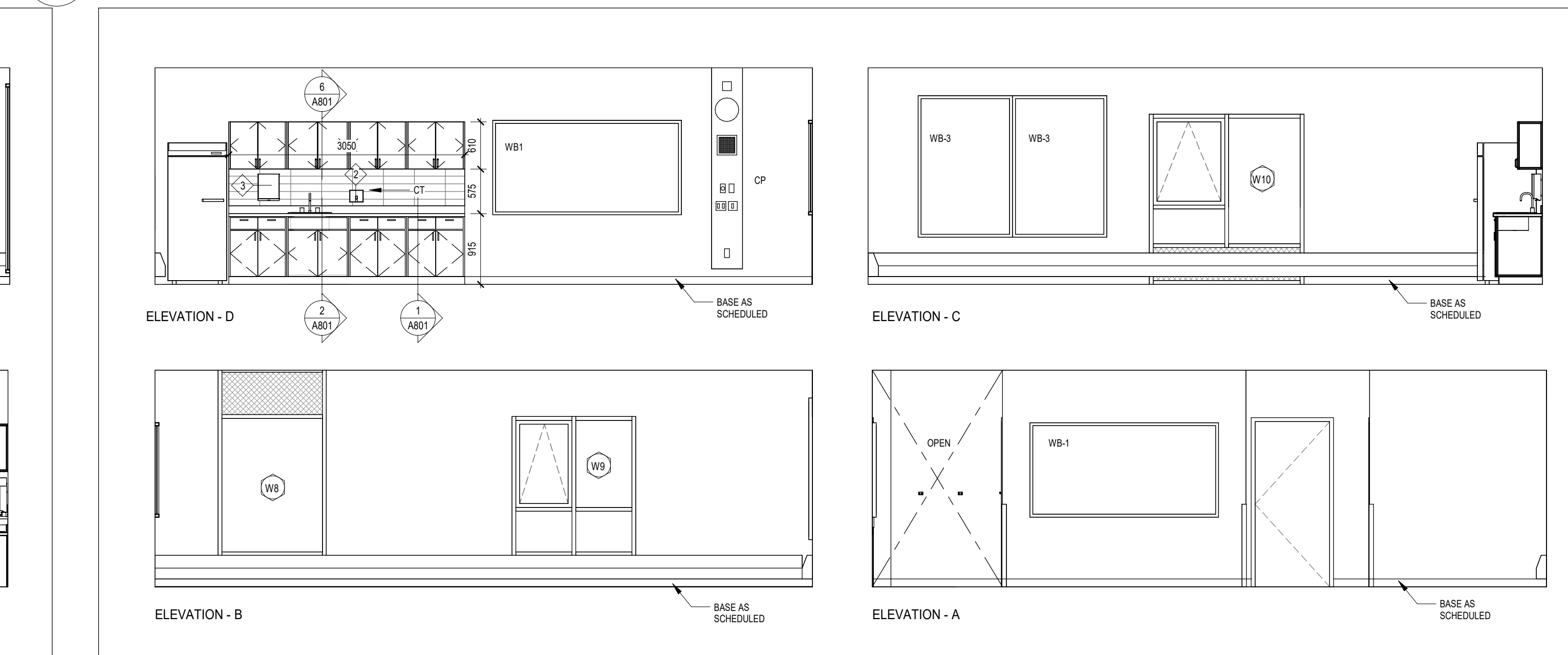
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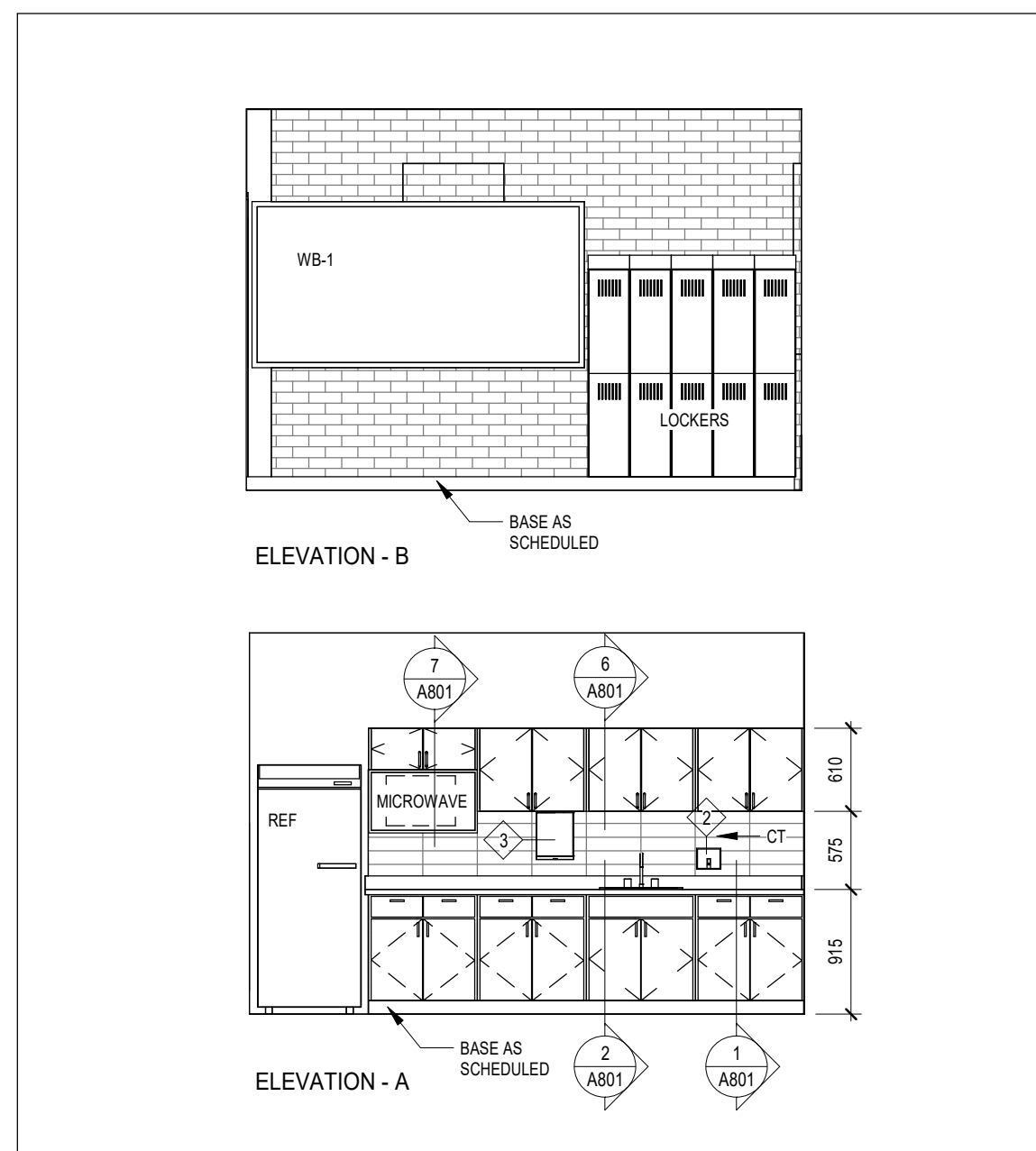
3 CORRIDOR A1-C101 INTERIOR ELEVATIONS
A303 1:50



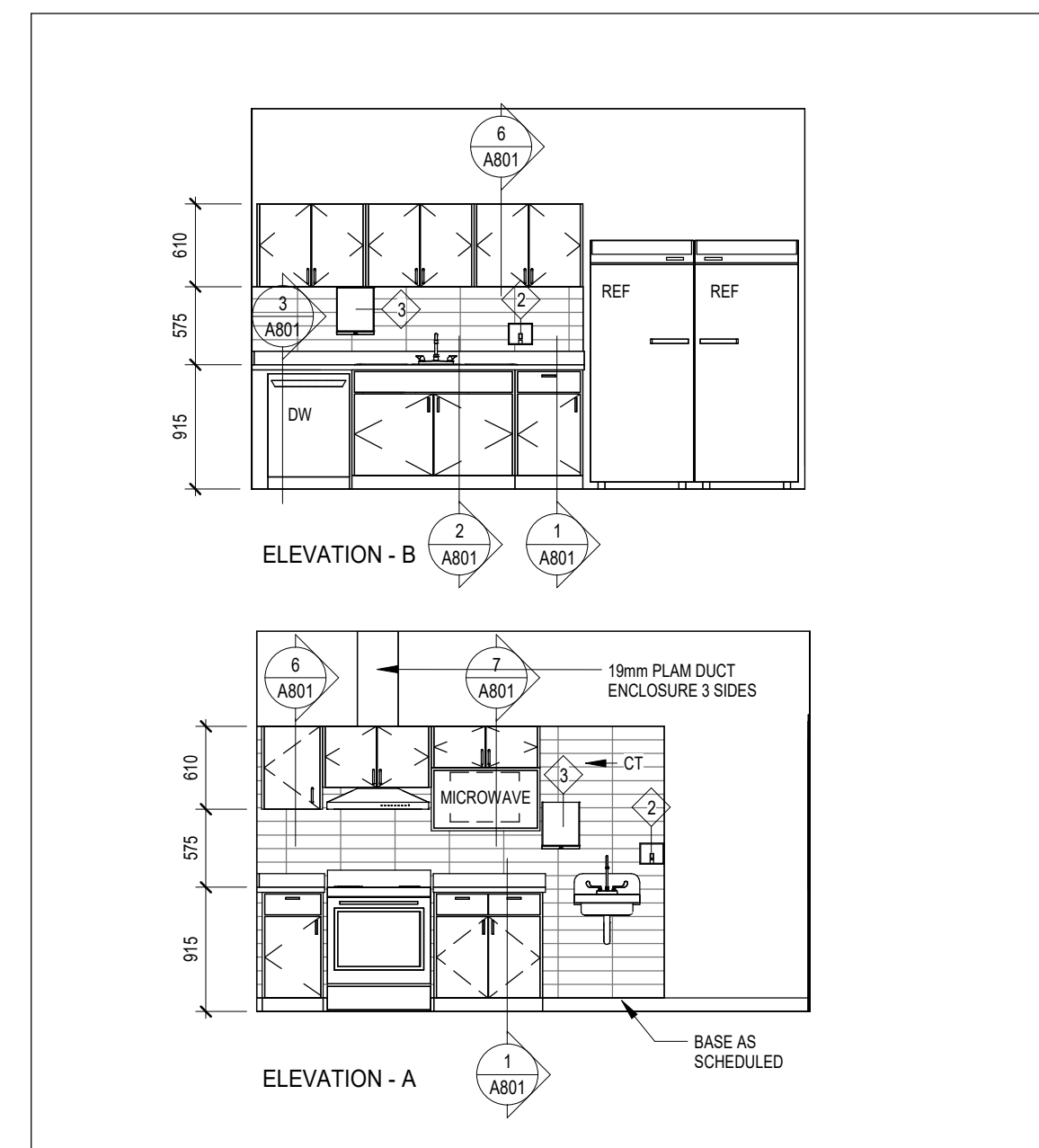
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A303 1:50



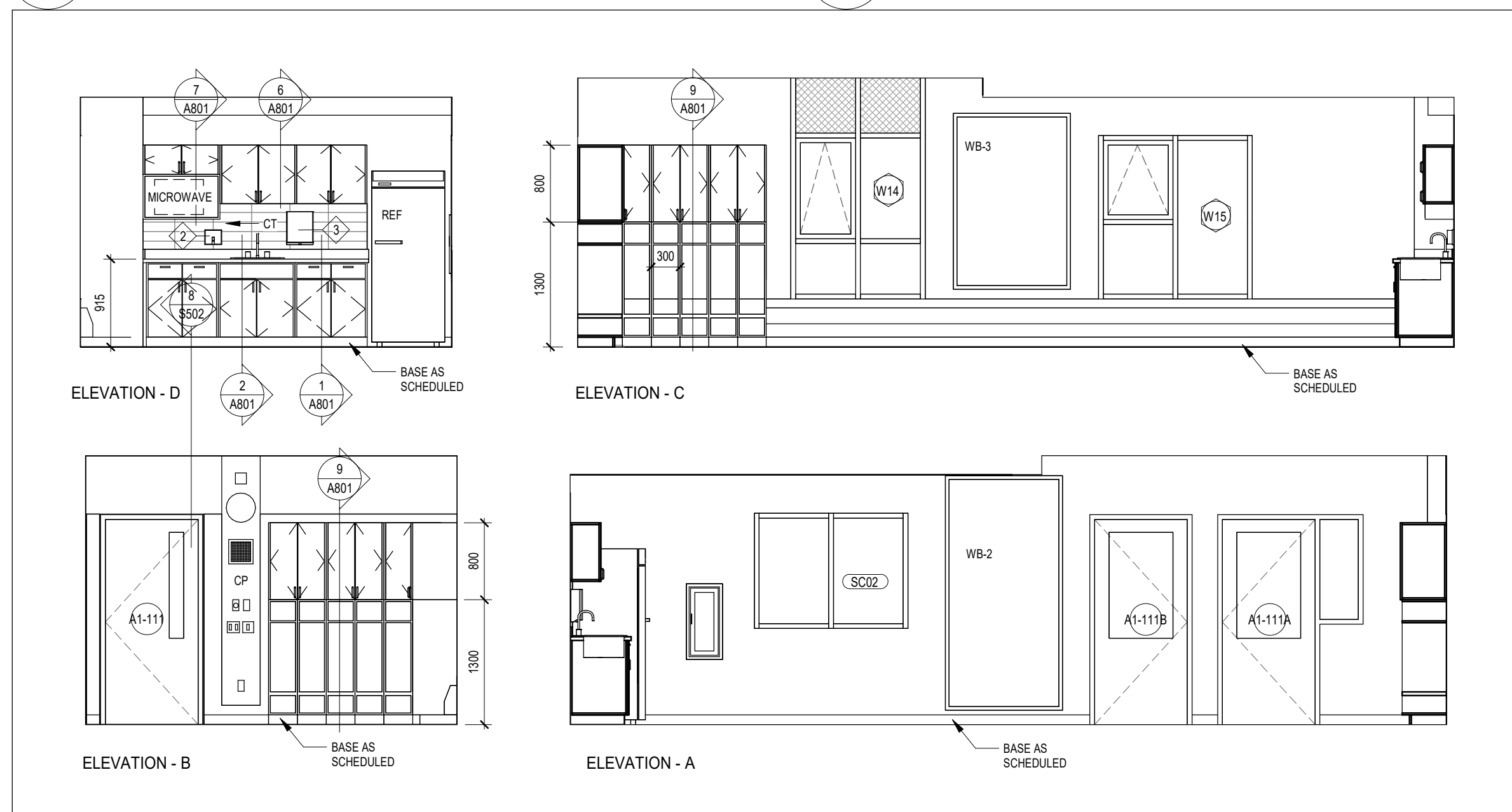
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A303 1:50



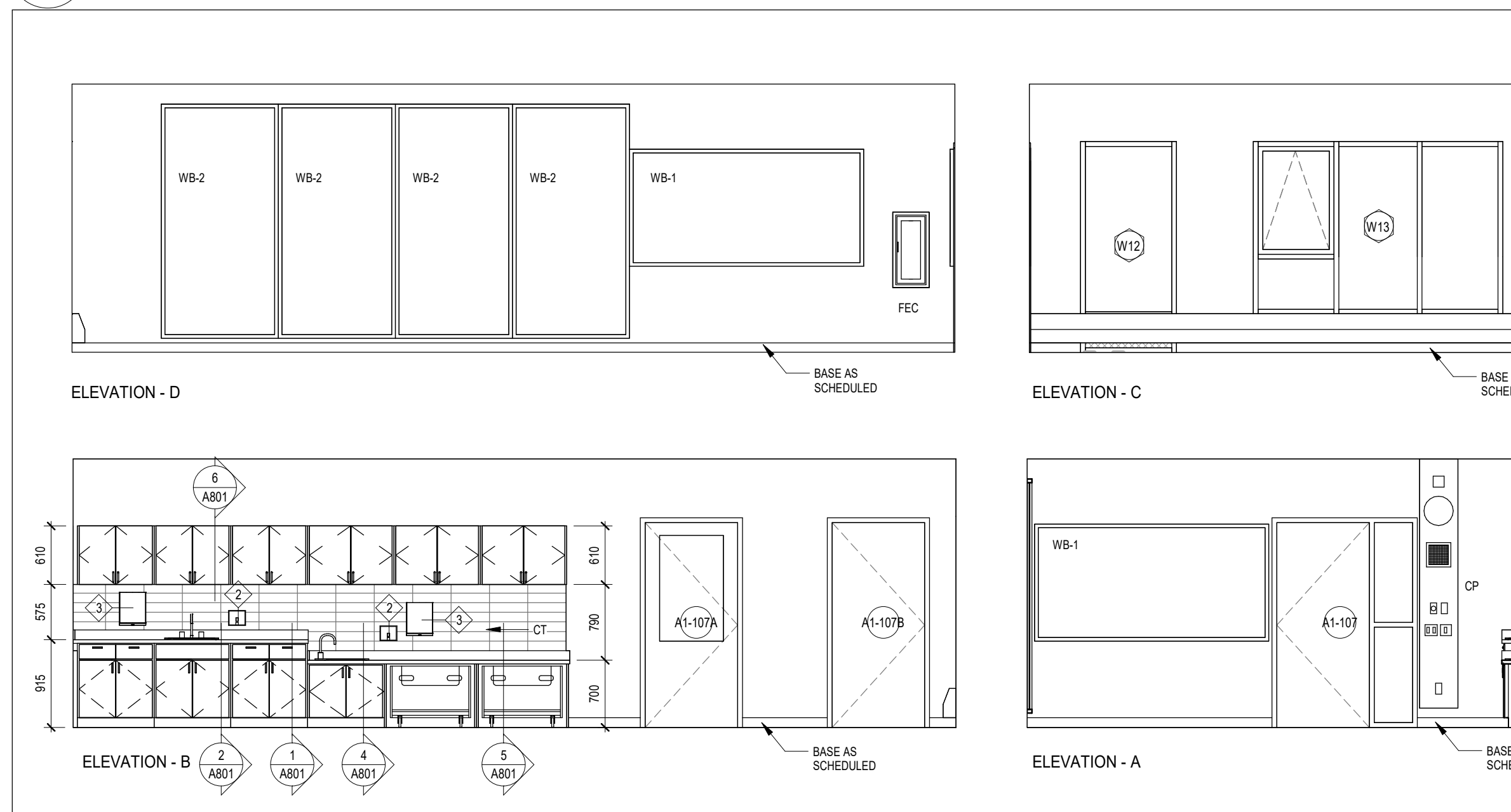
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A303 1:50



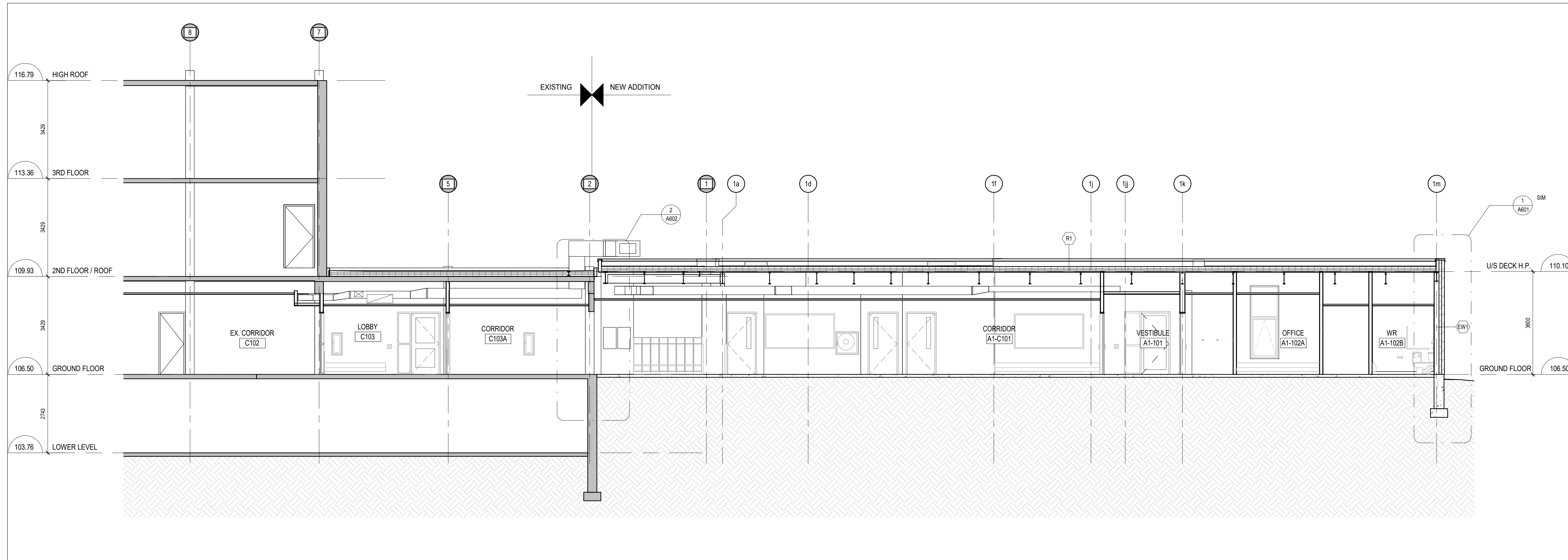
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A303 1:50



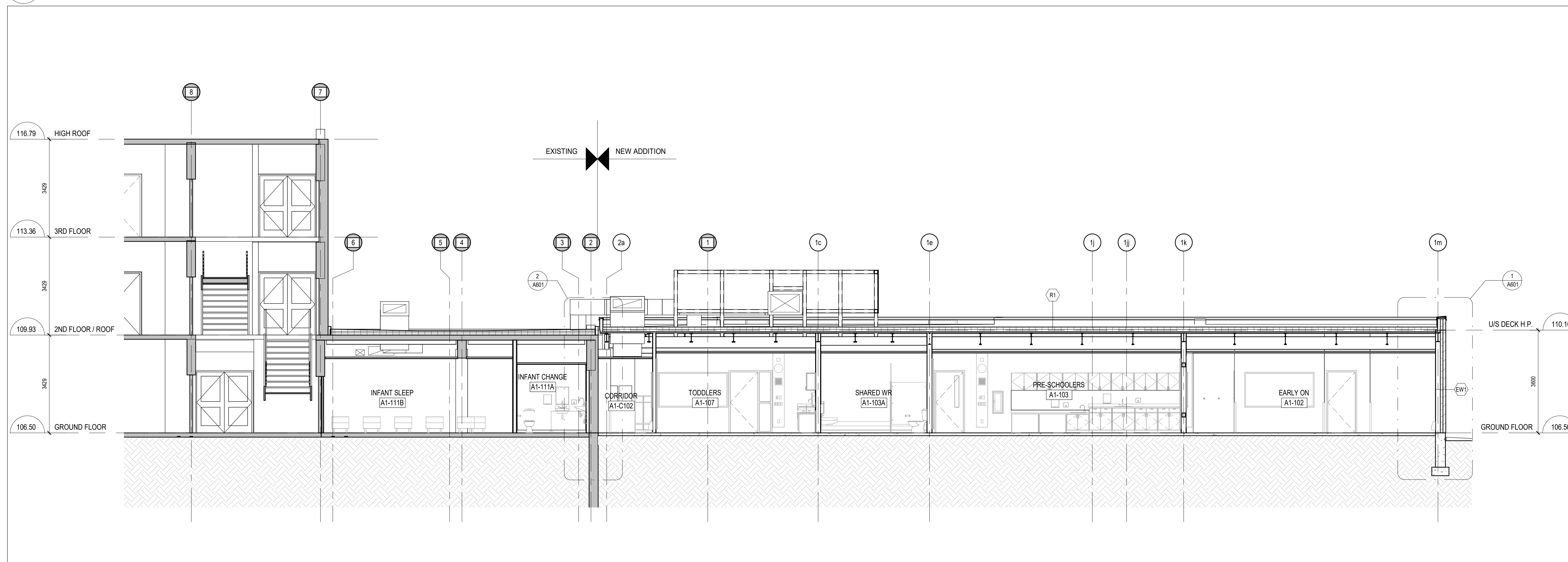
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A303 1:50



4 TODDLERS RM A1-107 INTERIOR ELEVATIONS
A303 1:50



2 BUILDING SECTION
A401 1 : 75



1 BUILDING SECTION
A401 1 : 75

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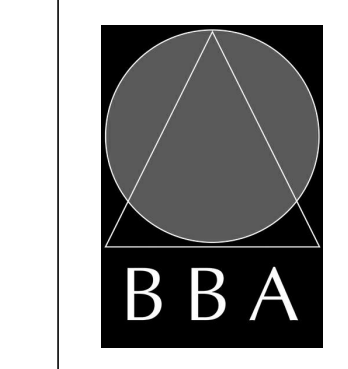
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PROJECT:
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Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
BUILDING SECTIONS



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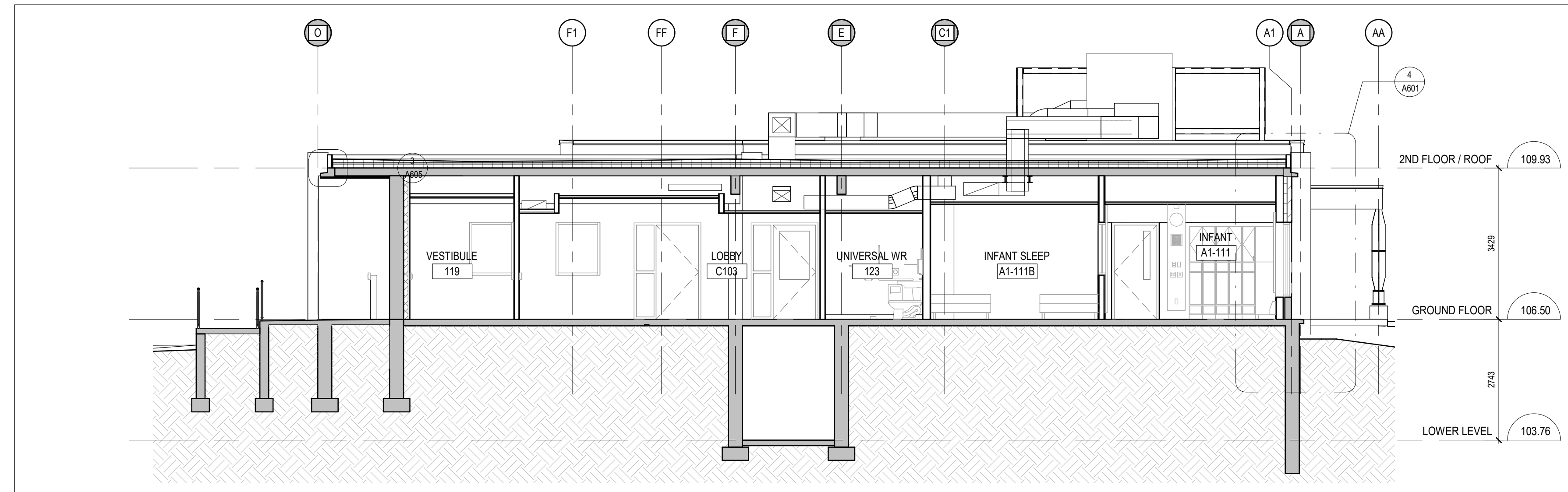
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PROJECT NO: **18113**
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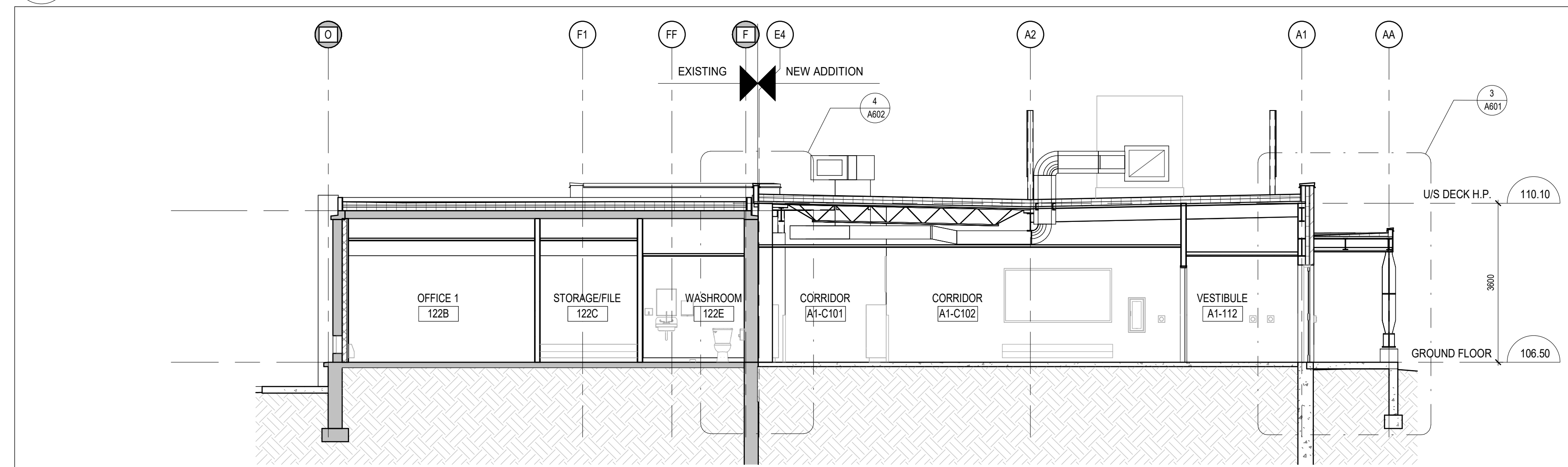
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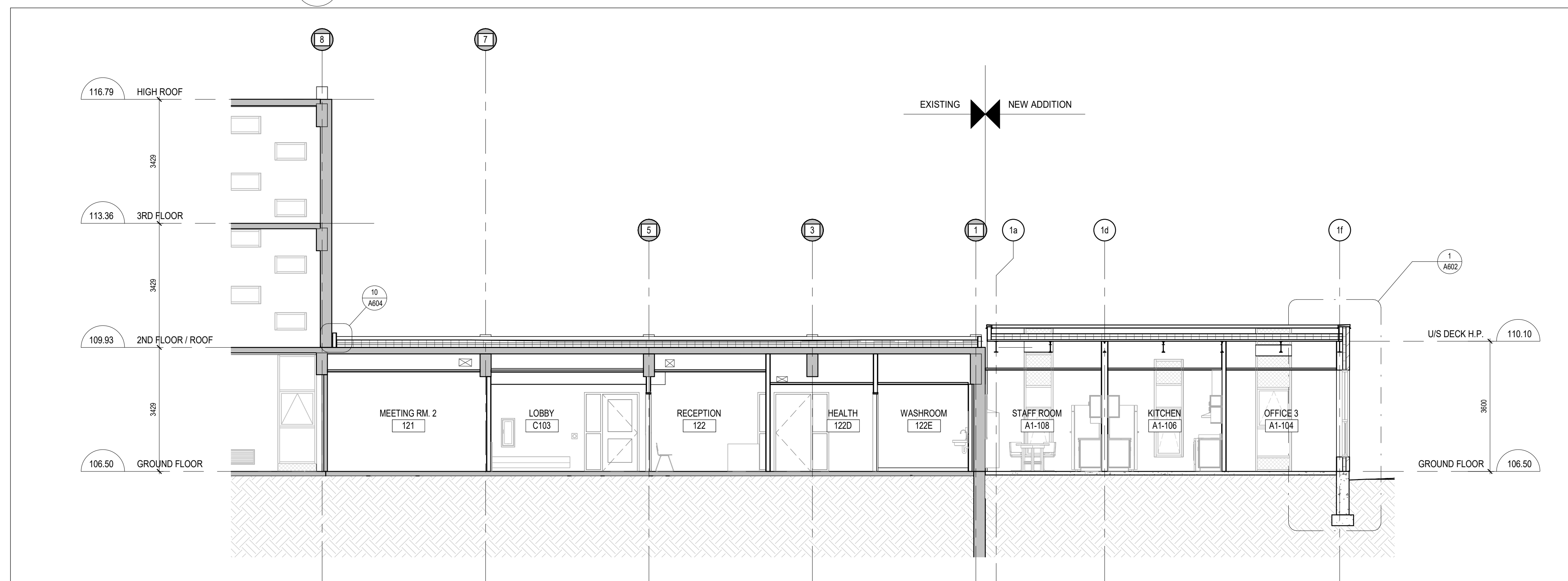
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3	FOR PRICING	MAR 6/23	BBA
4	ISSUED FOR BUILDING PERMIT	MAY 30/24	BBA
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3 BUILDING SECTION
A402 1:75



2 BUILDING SECTION
A402 1:75



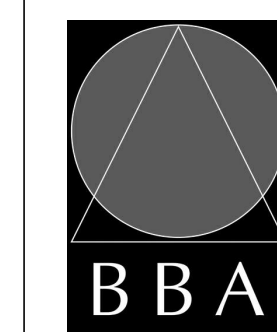
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A402 1:75

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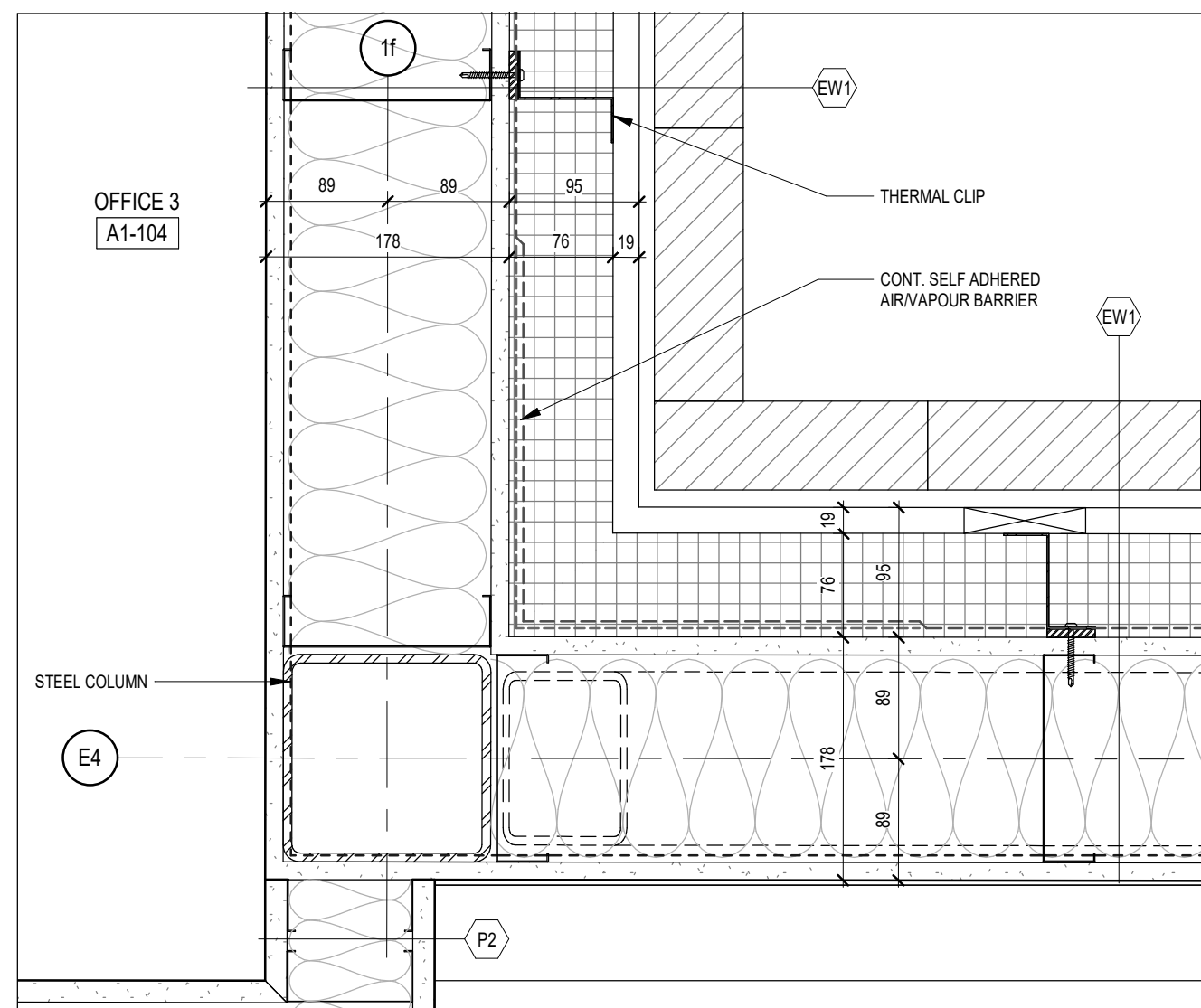
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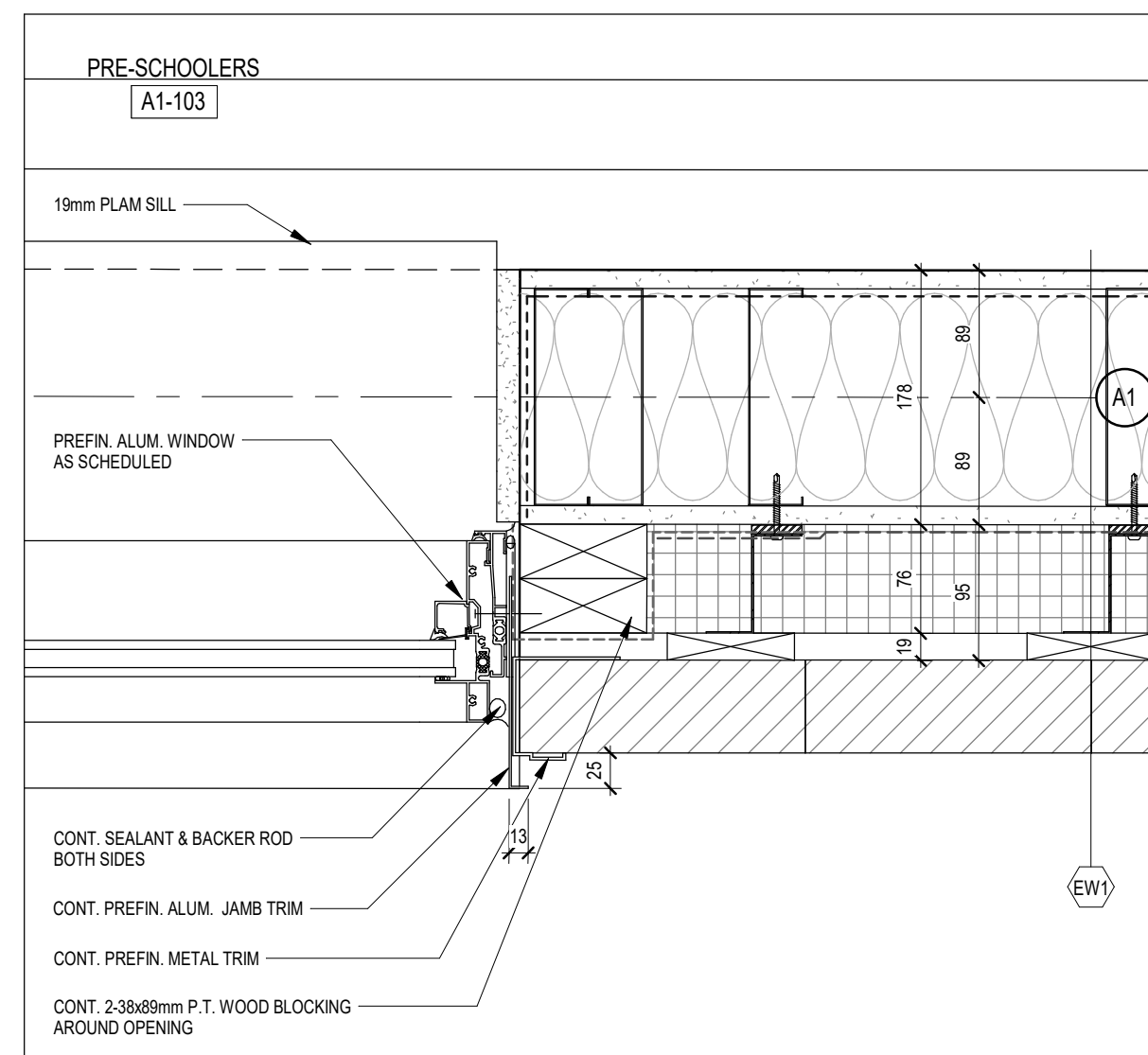
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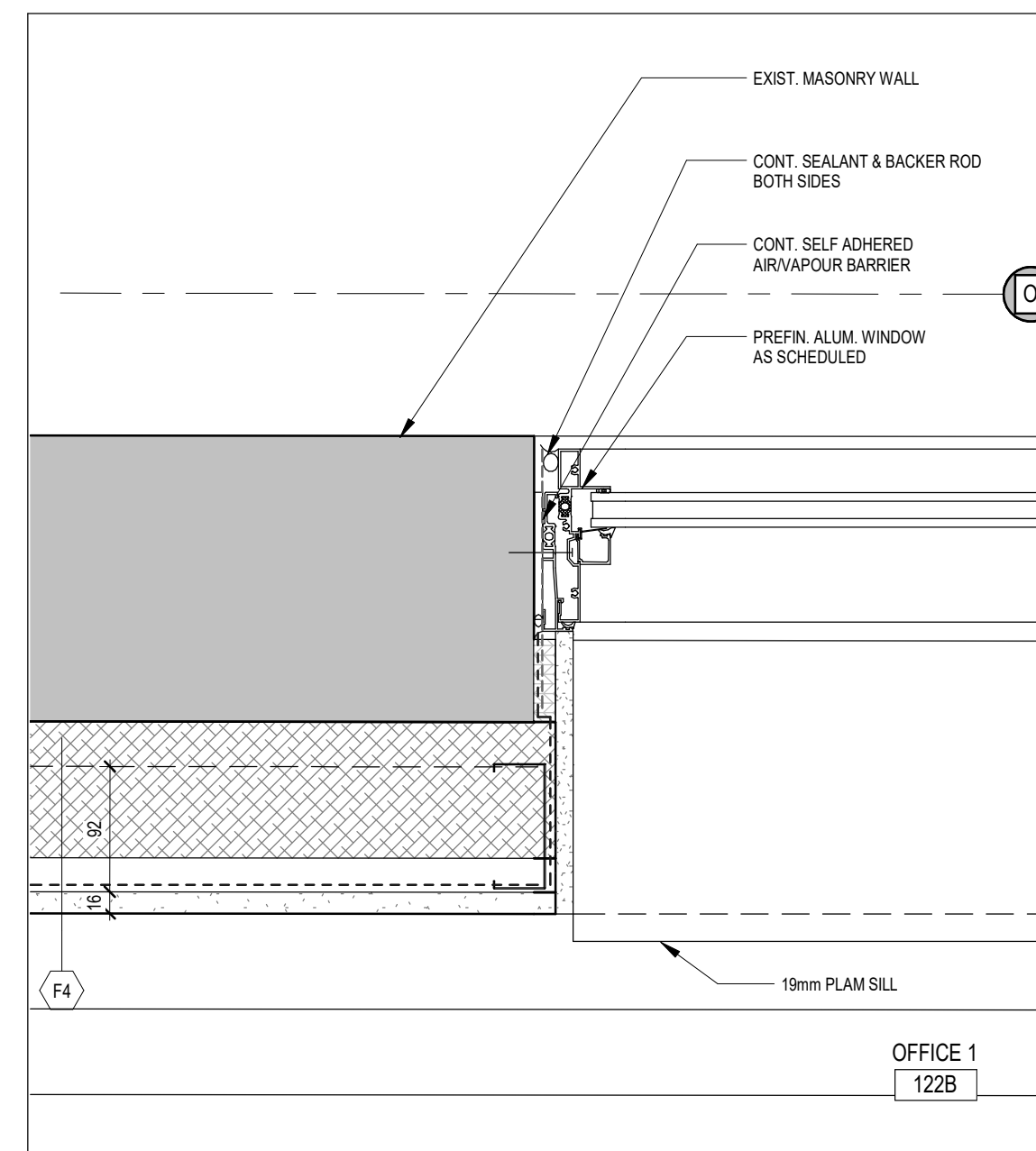
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18113
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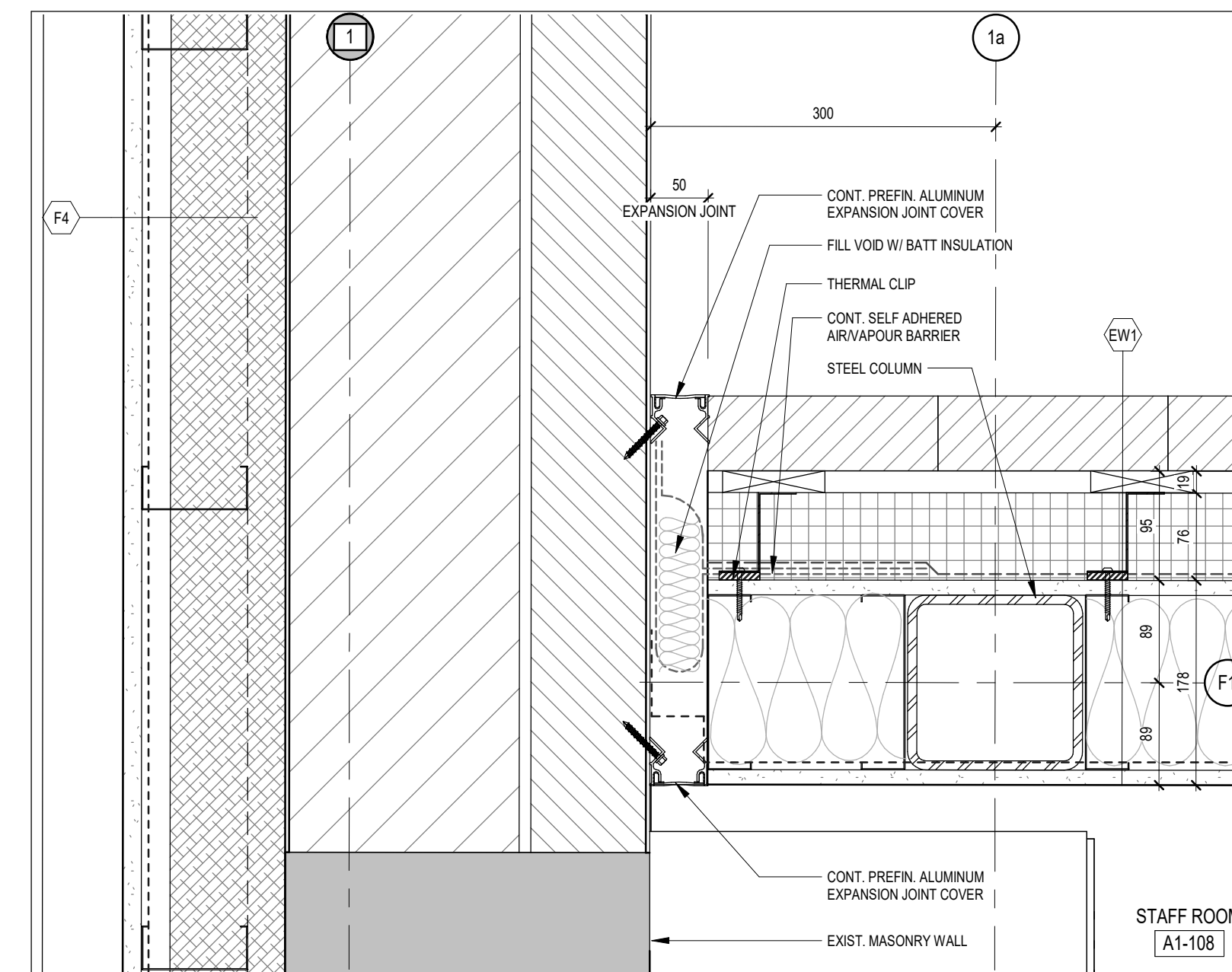
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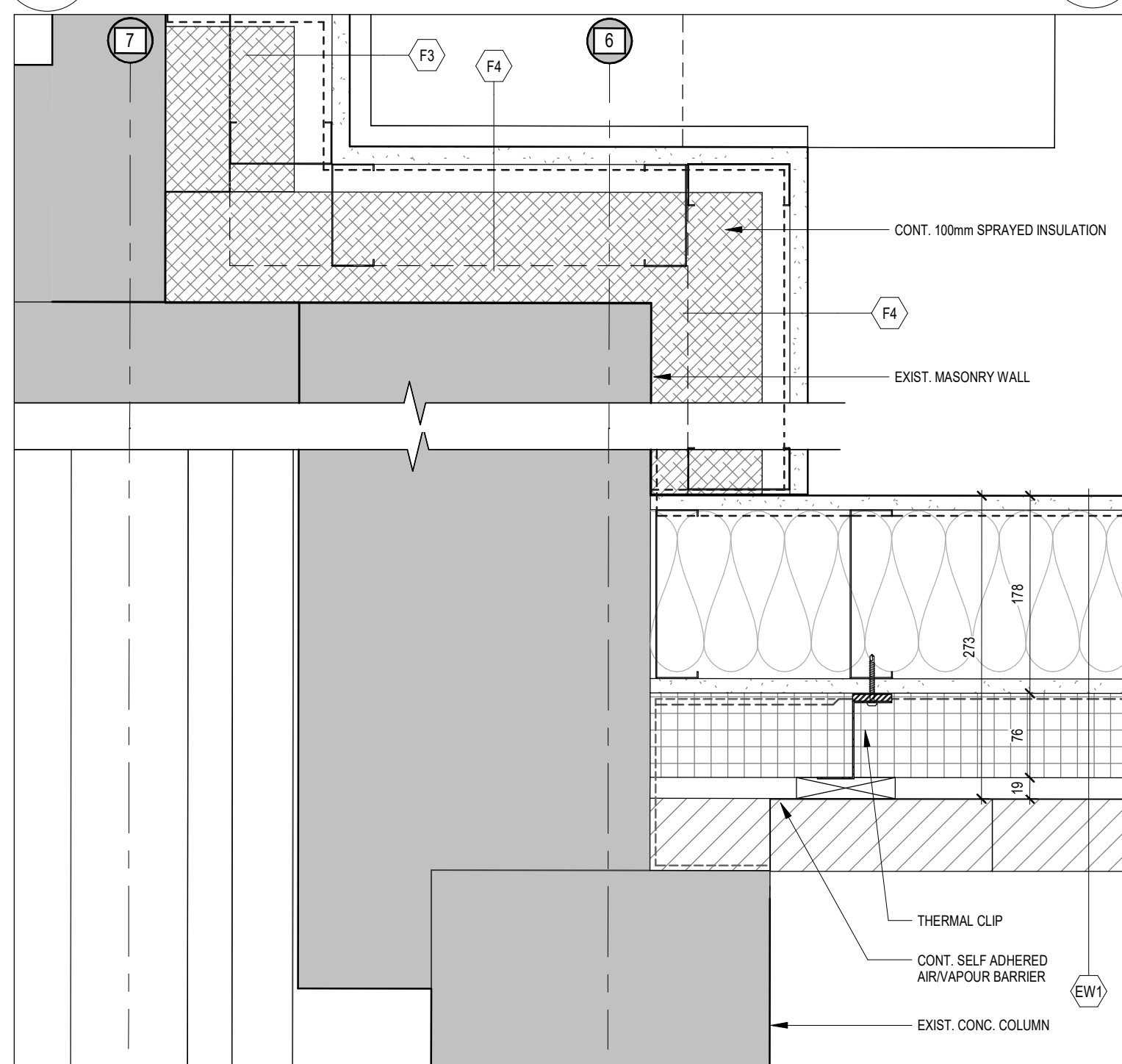
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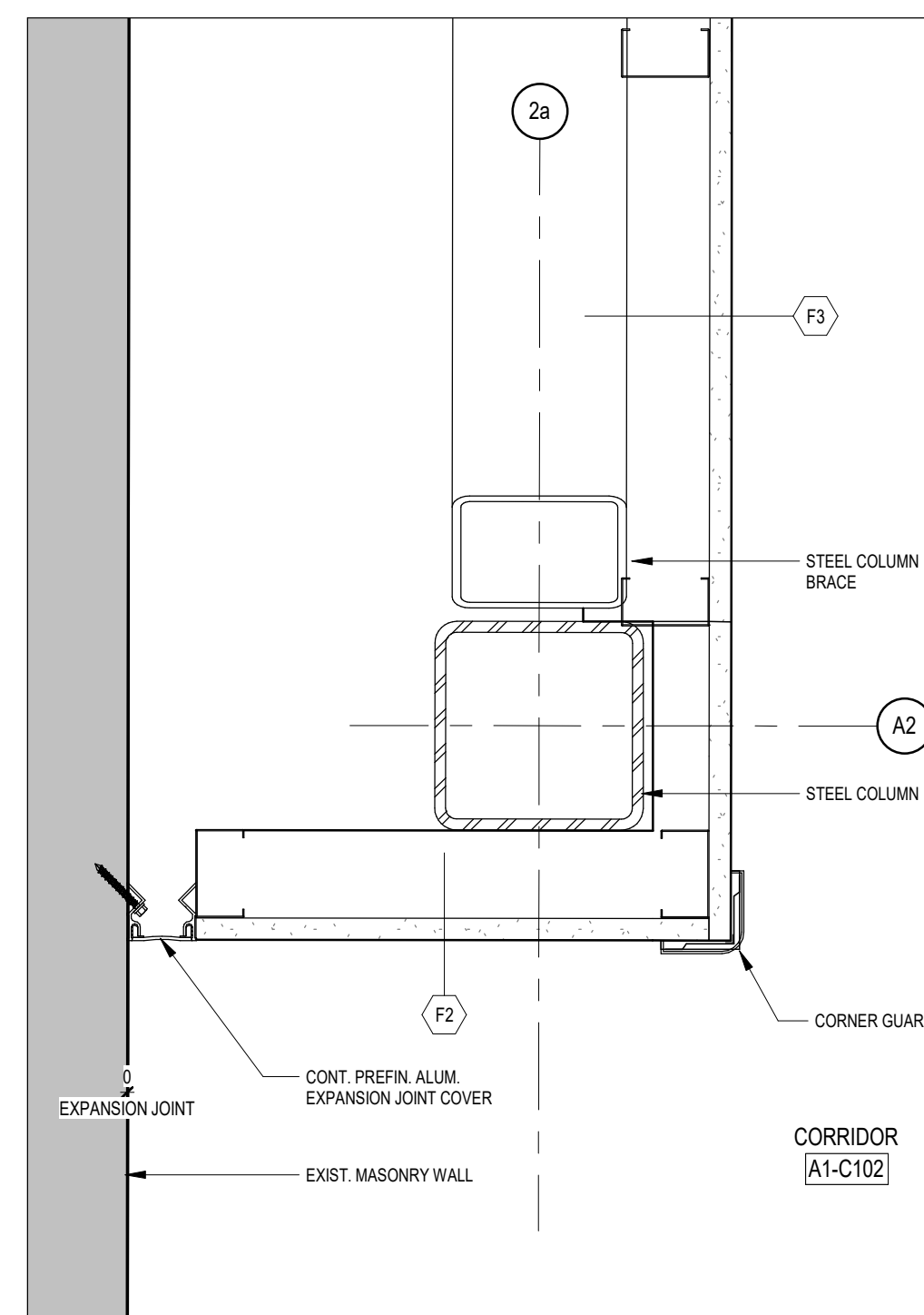
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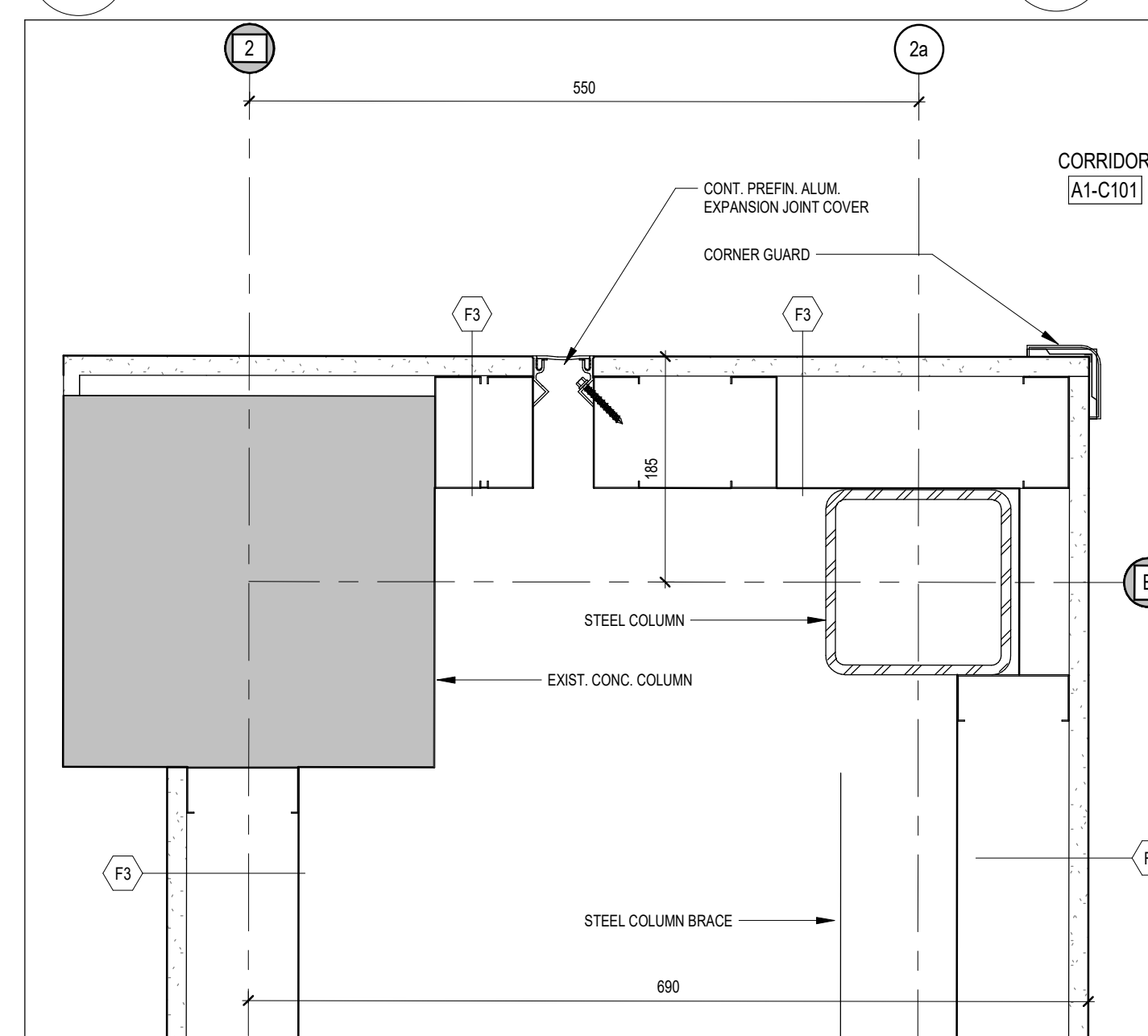
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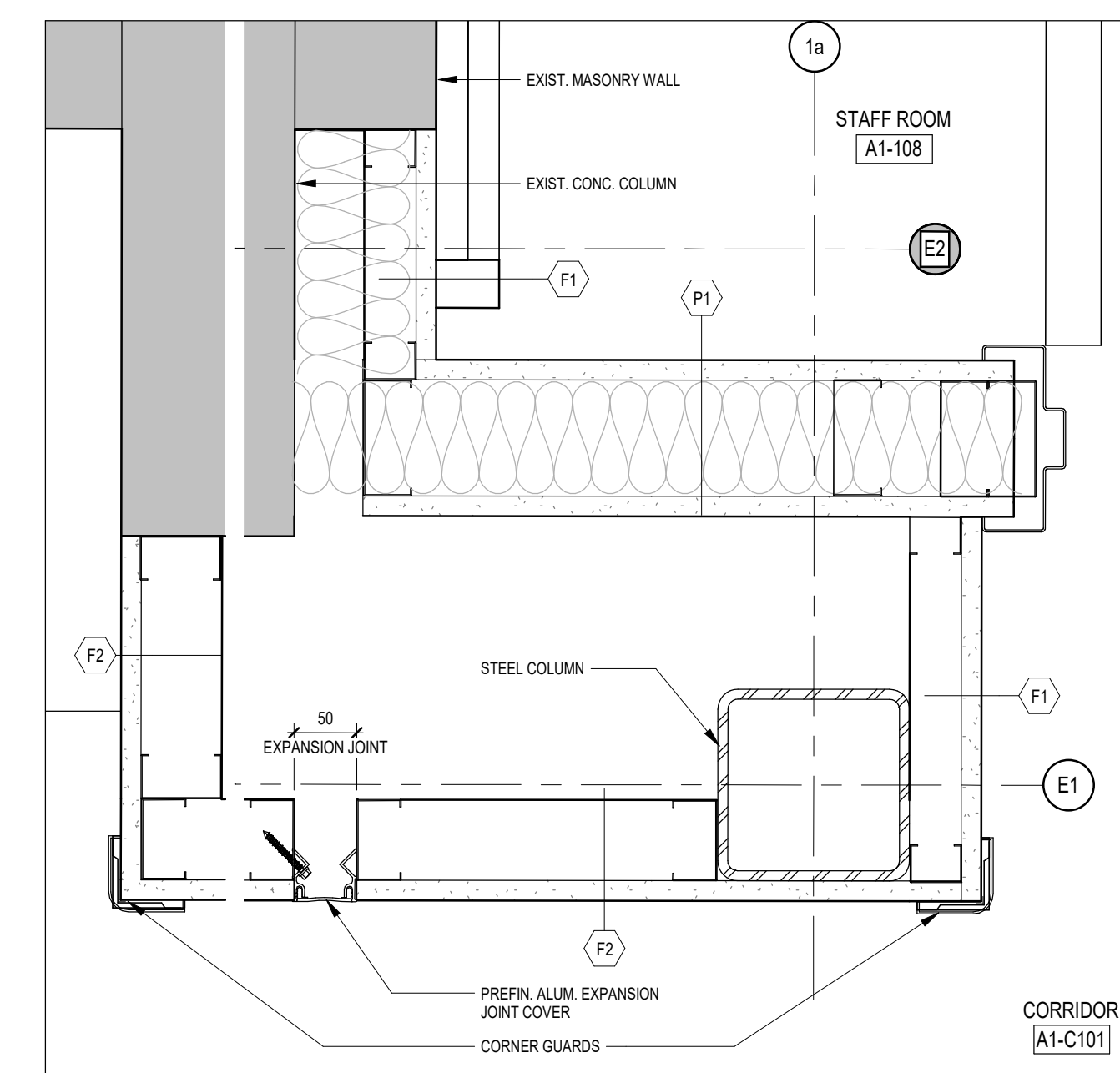
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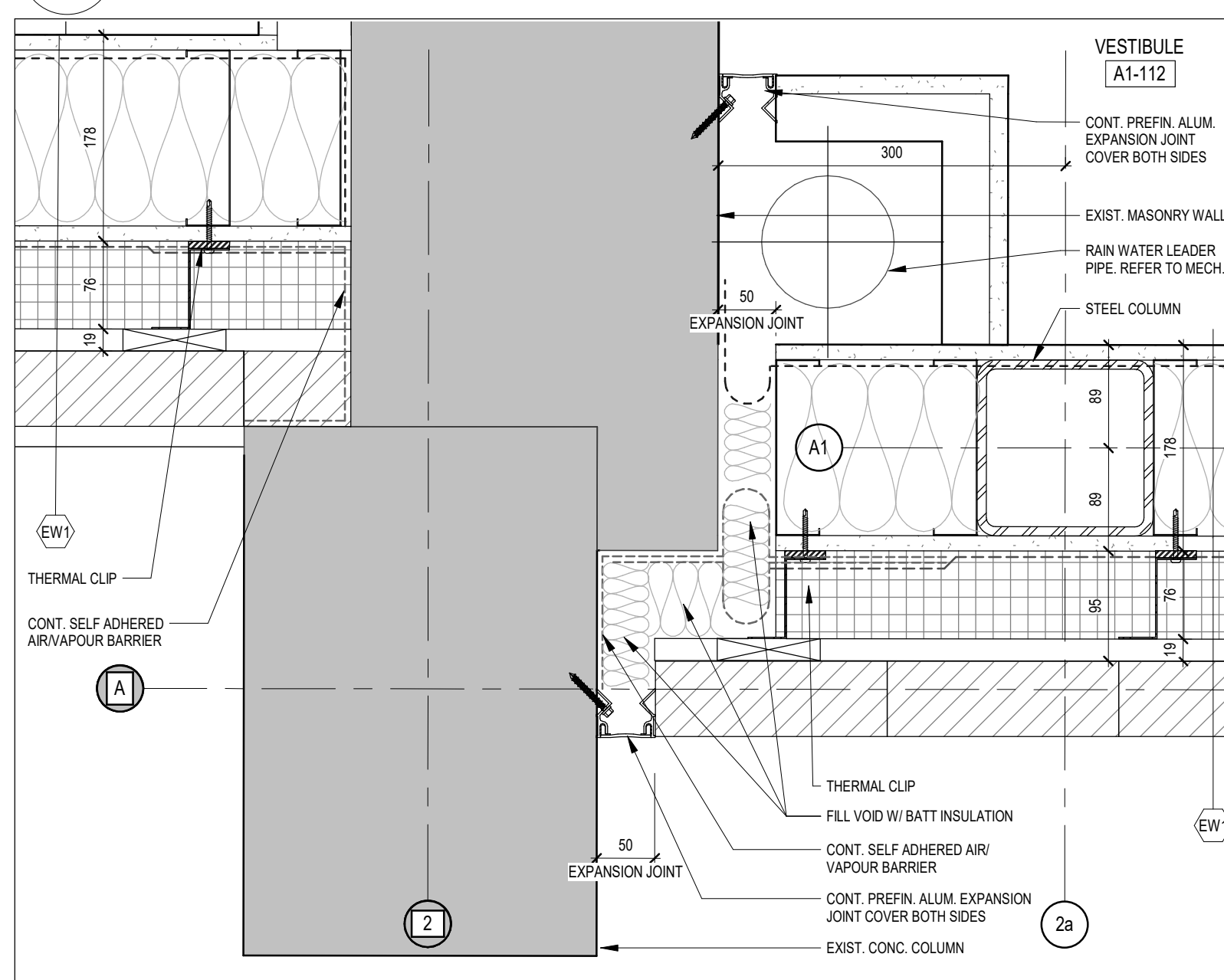
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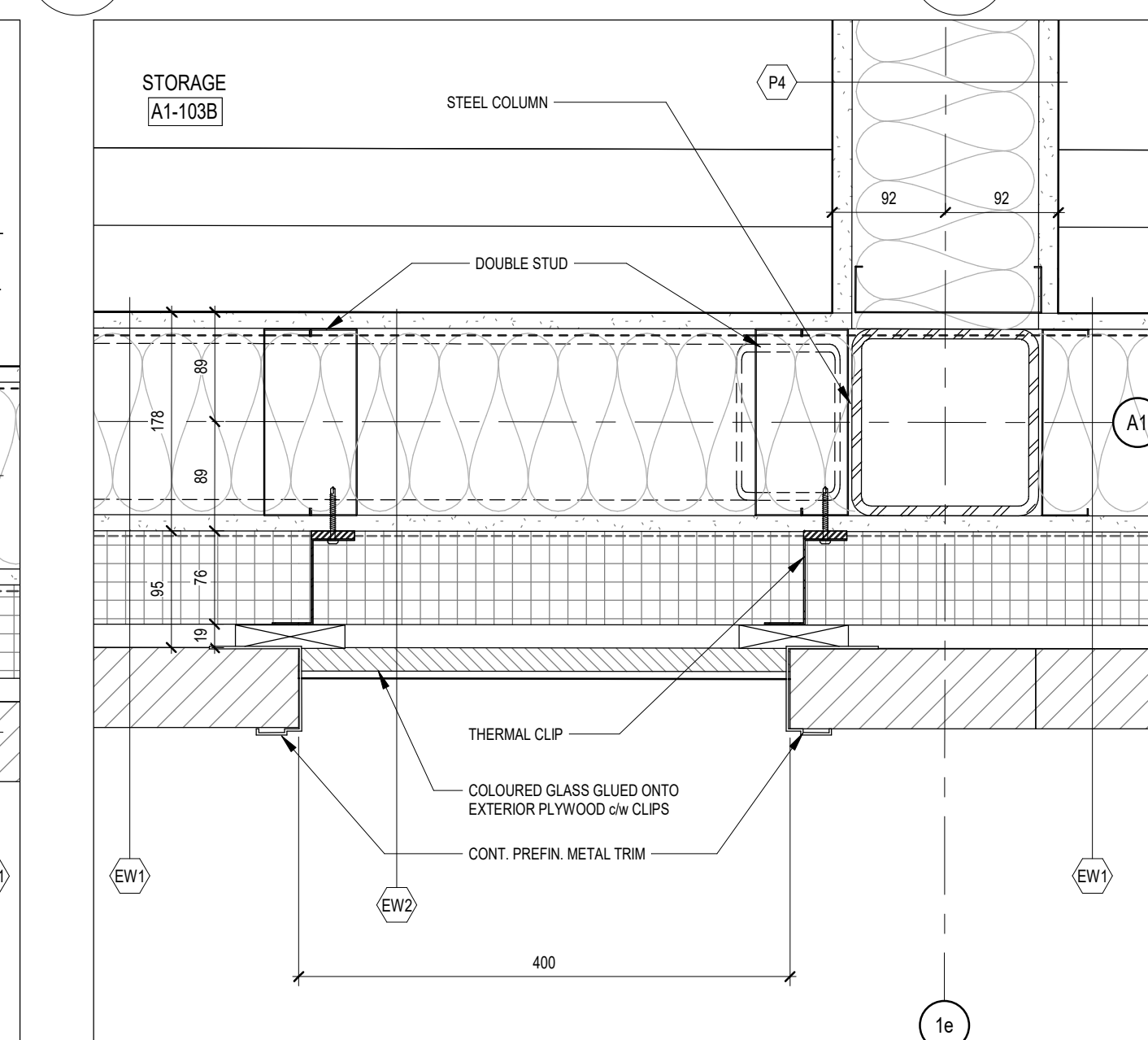
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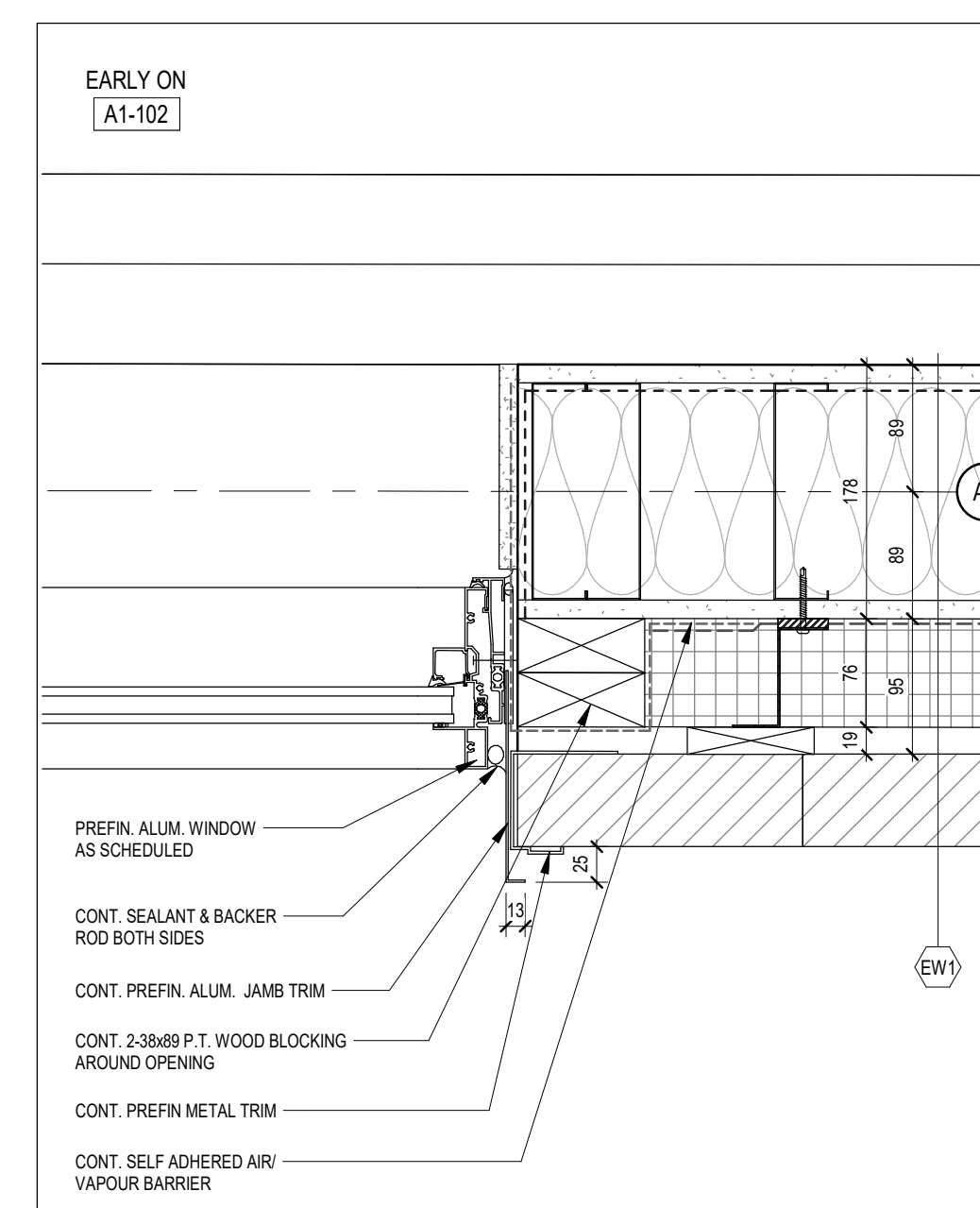
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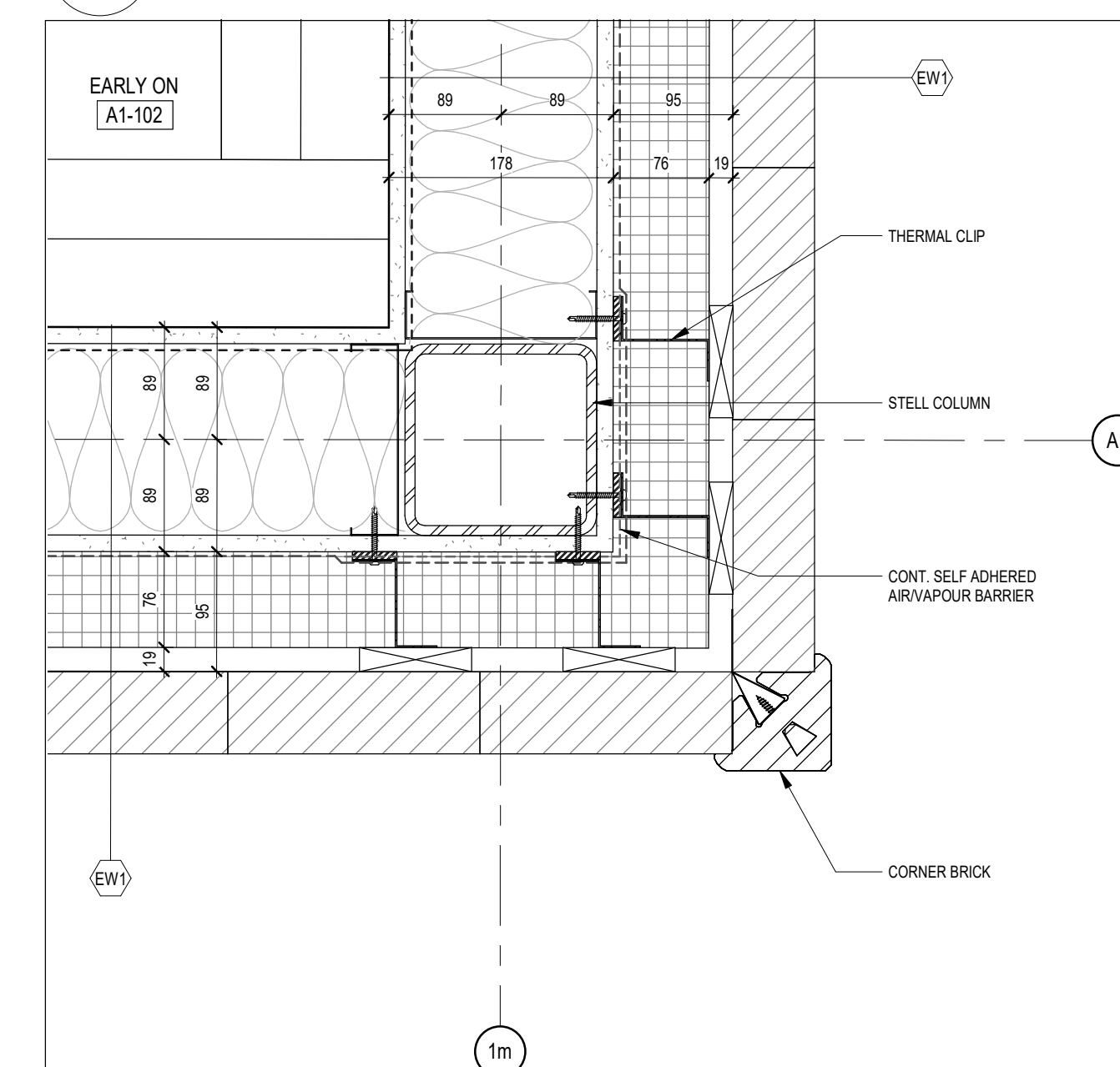
10 PLAN DETAIL
A501 1:5



7 PLAN DETAIL
A501 1:5



4 PLAN DETAIL
A501 1:5



1 PLAN DETAIL
A501 1:5

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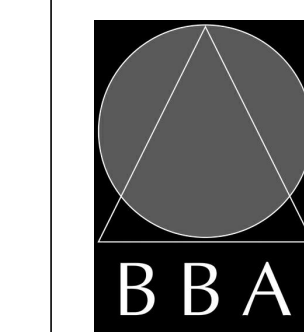
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PROJECT:
GARDARIE LA FARANDOLE

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65 Grace Street Toronto

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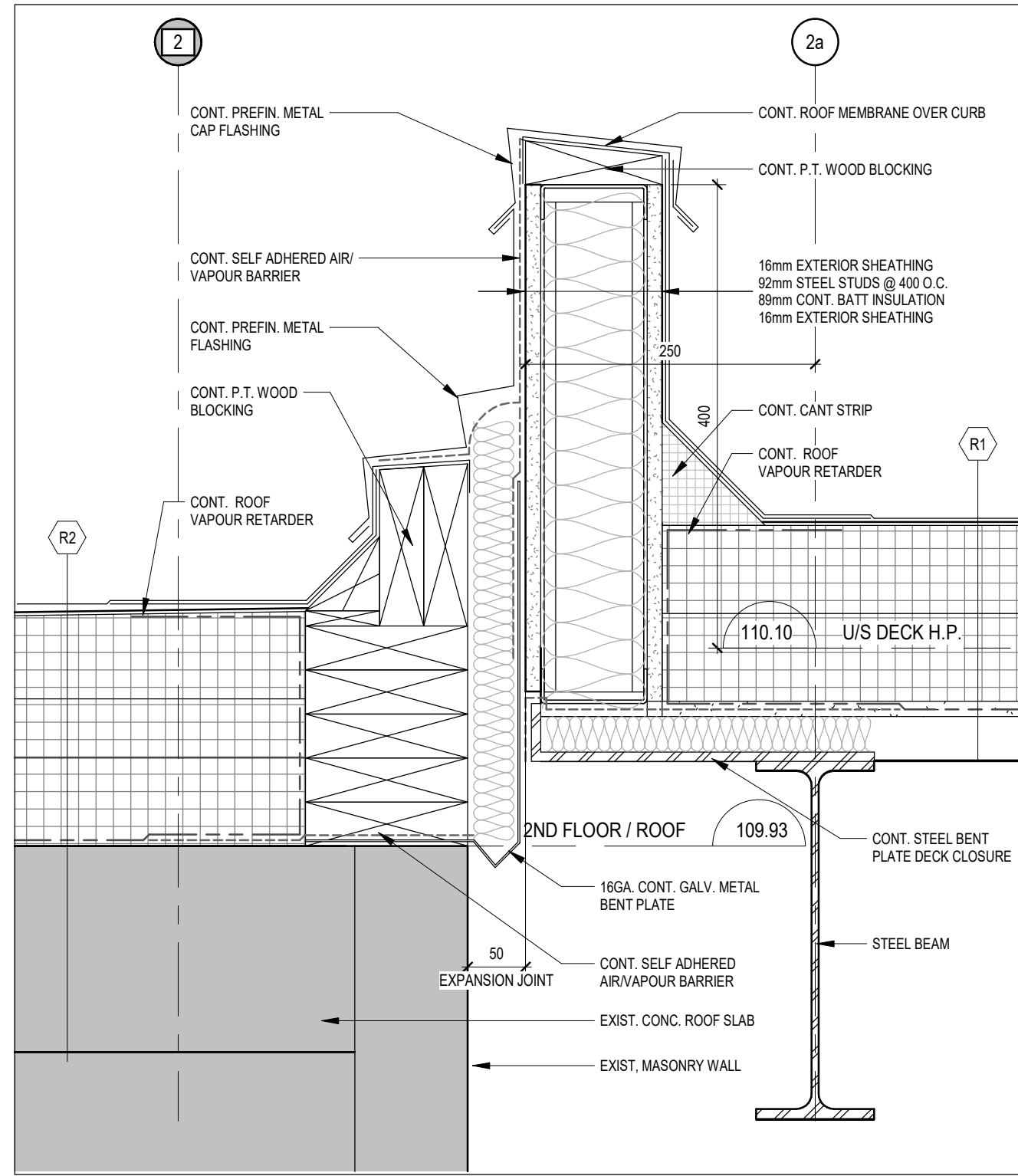
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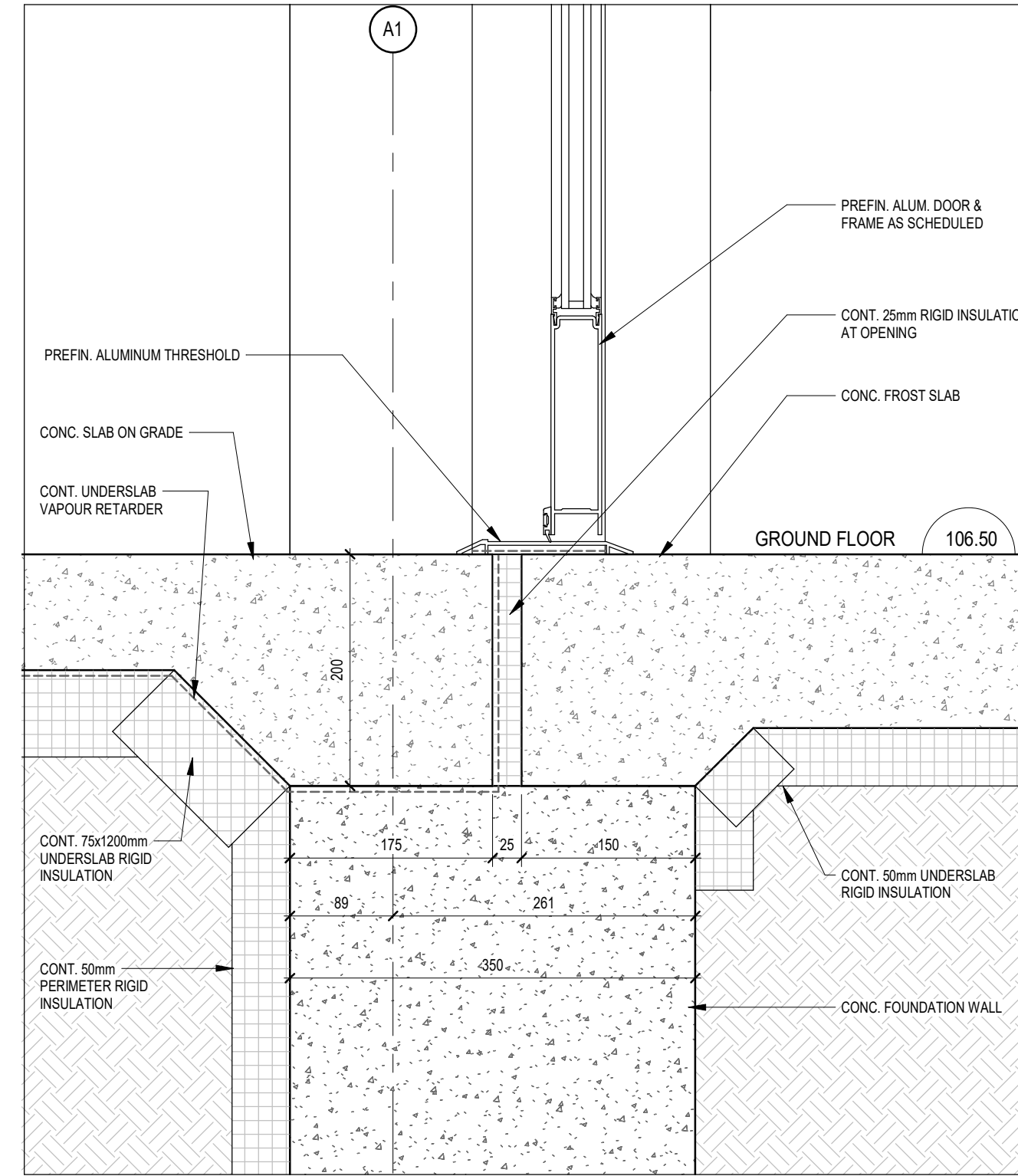
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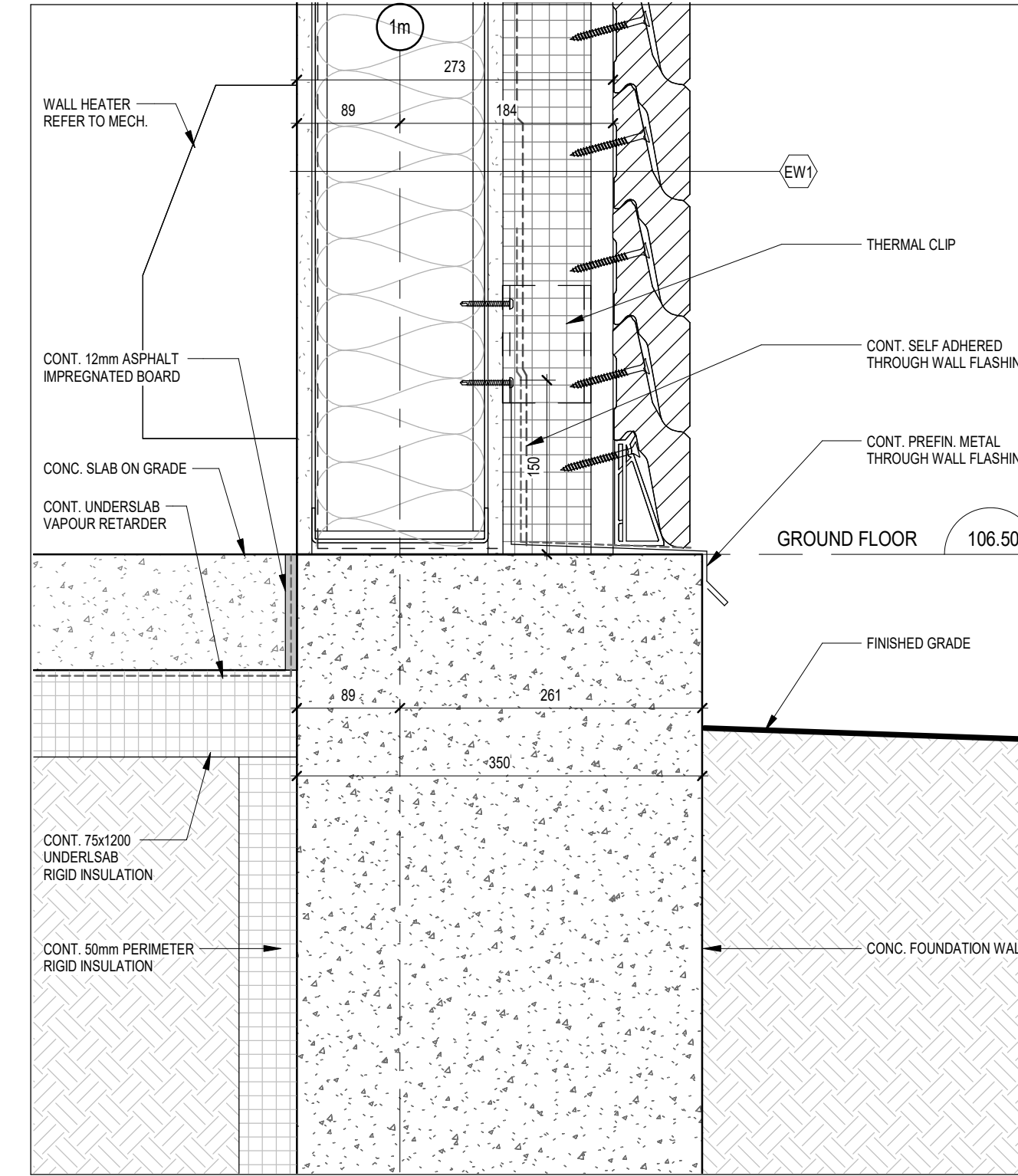
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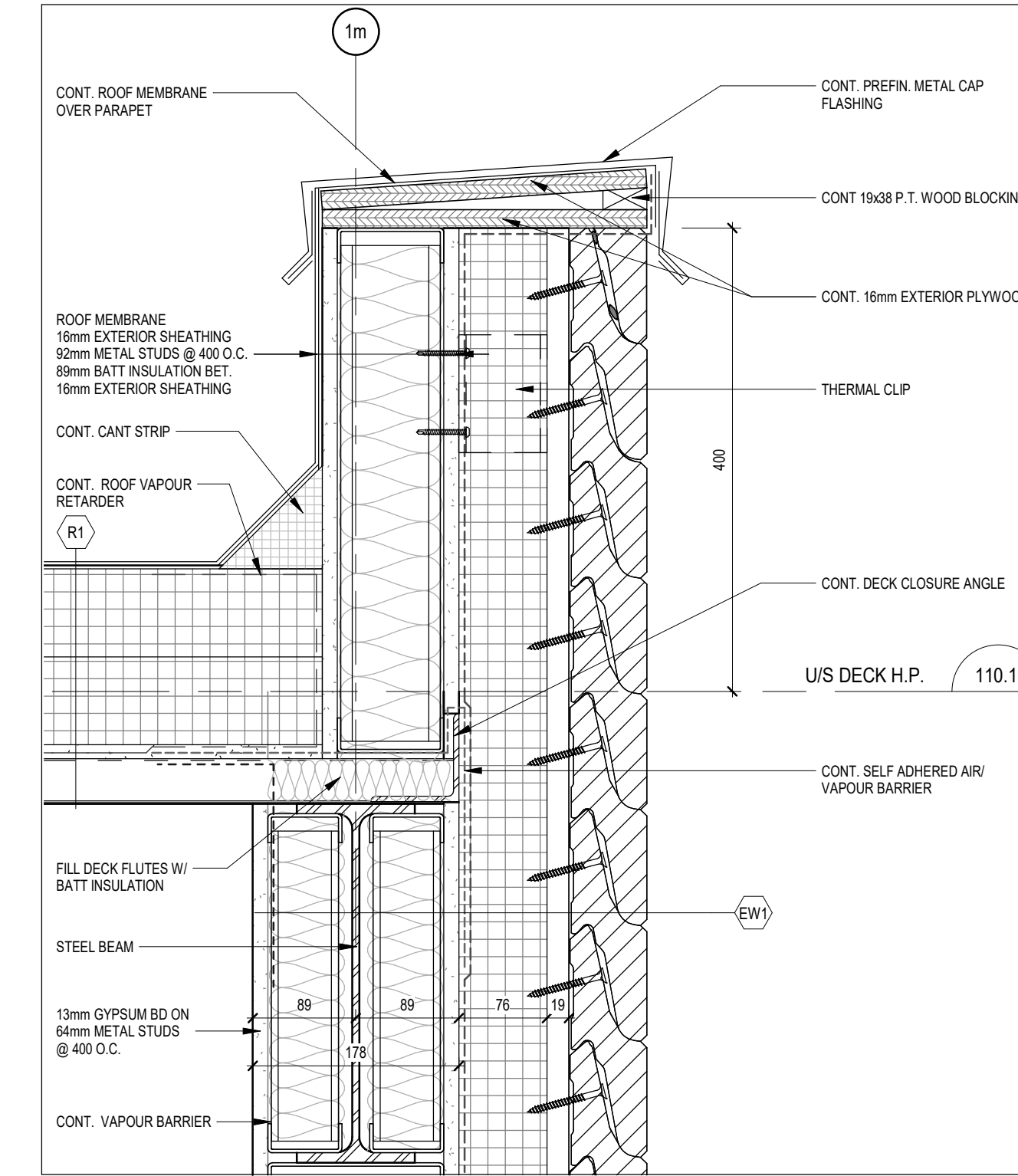
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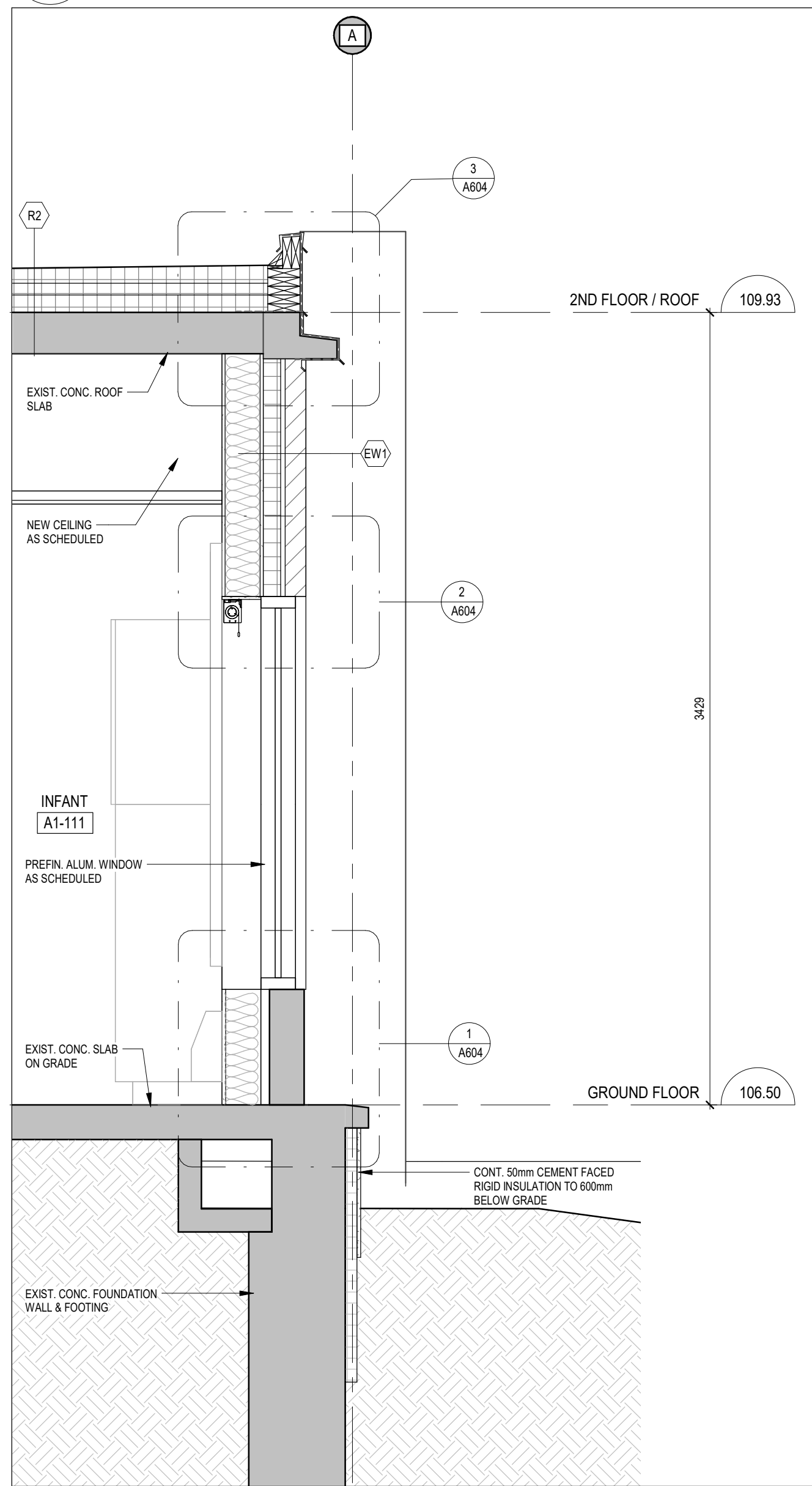
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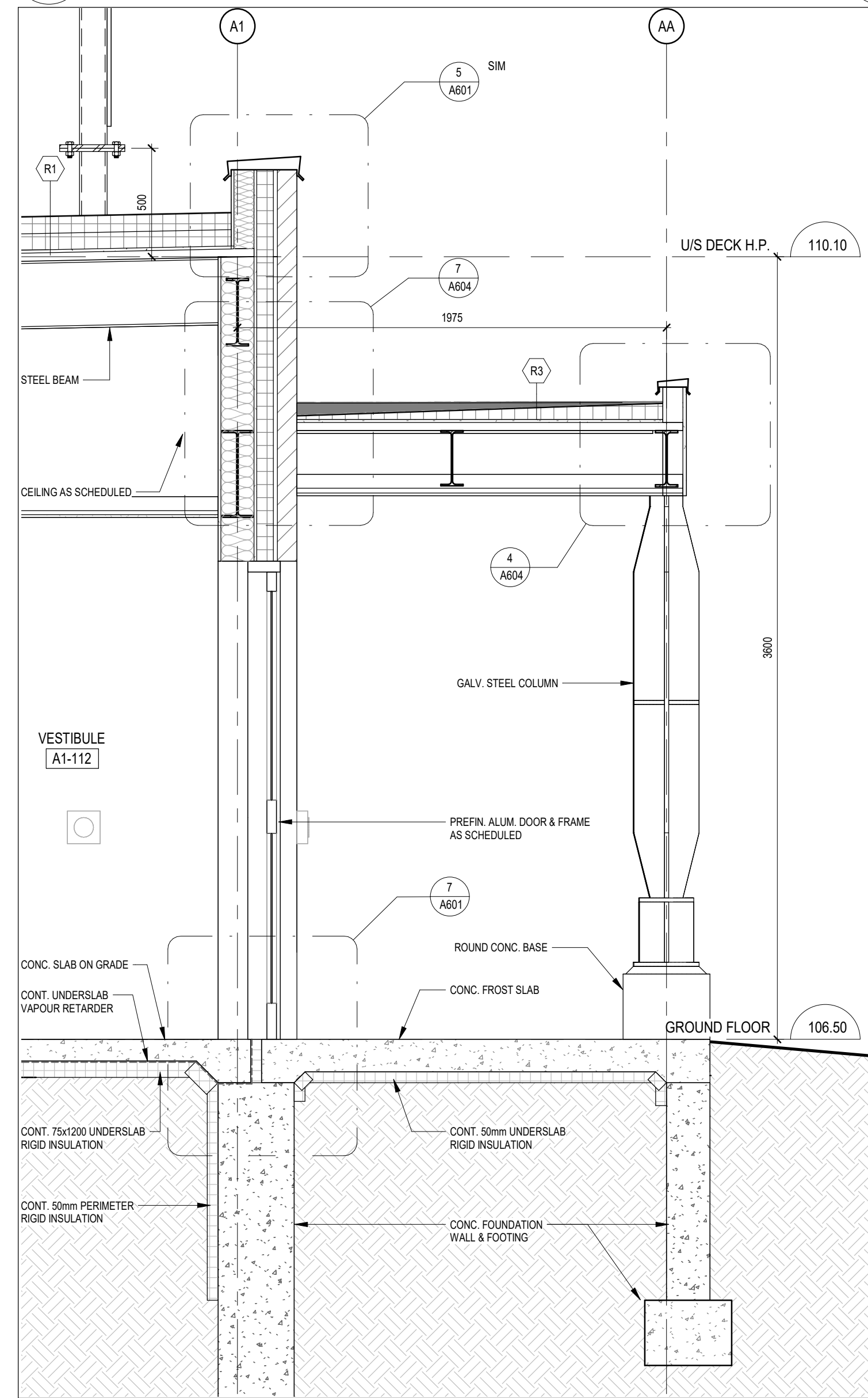
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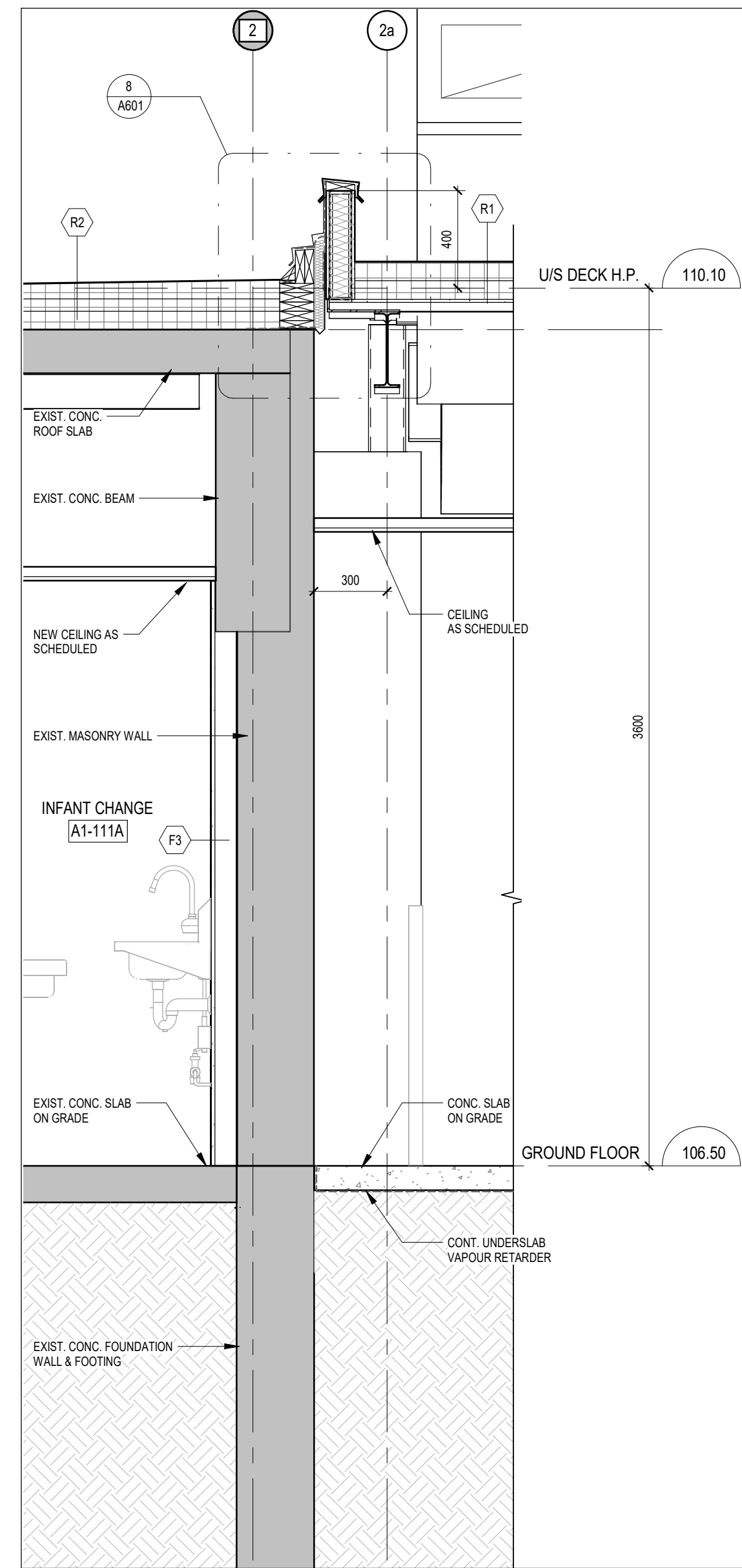
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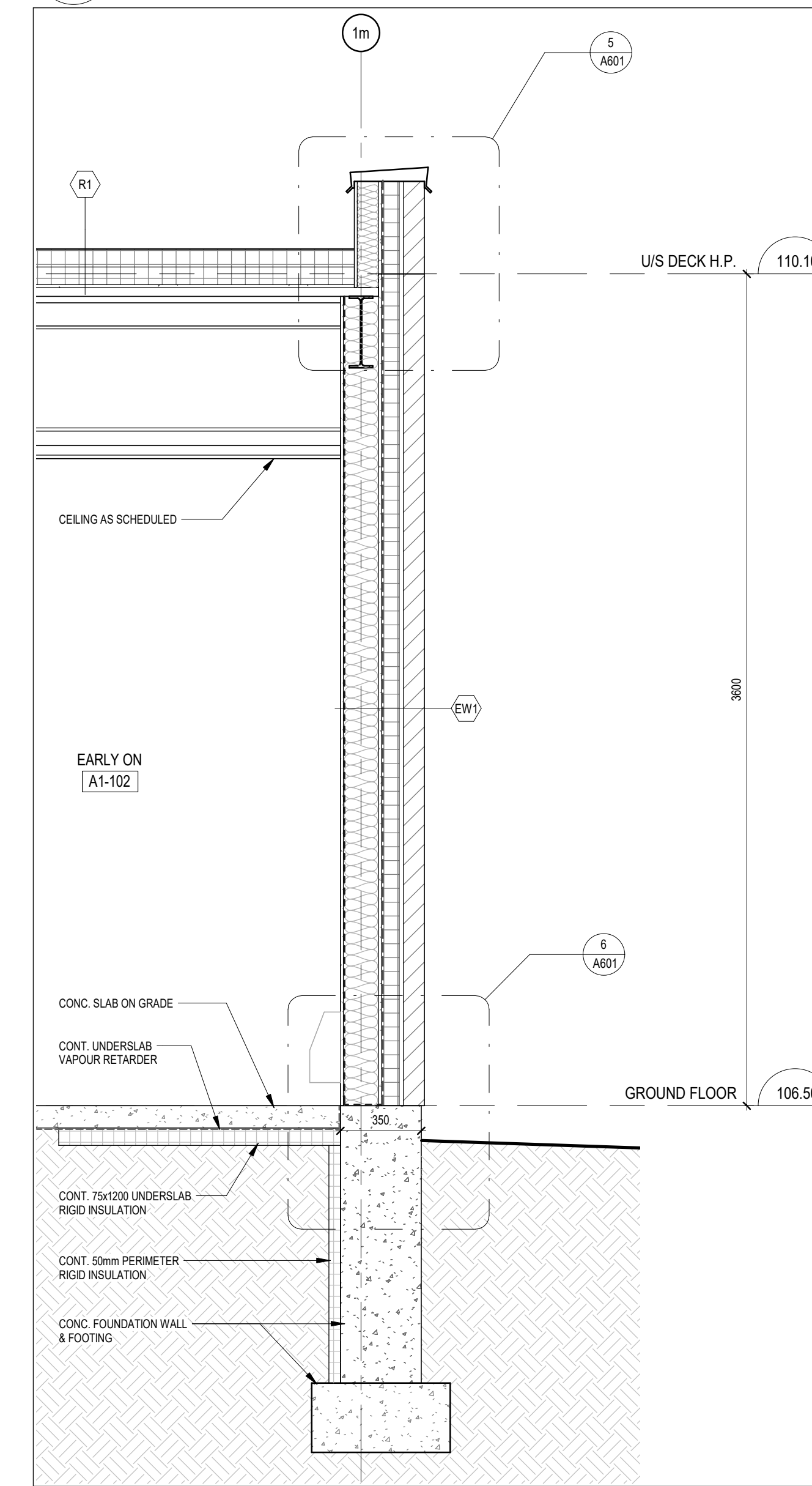
4 WALL SECTION
A601 1:20



3 WALL SECTION
A601 1:20



2 WALL SECTION
A601 1:20



1 WALL SECTION
A601 1:20

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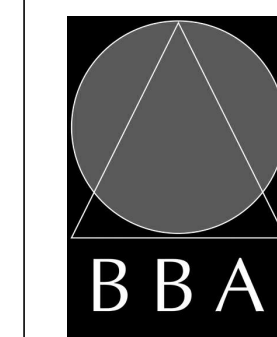
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PROJECT:
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Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
WALL SECTIONS



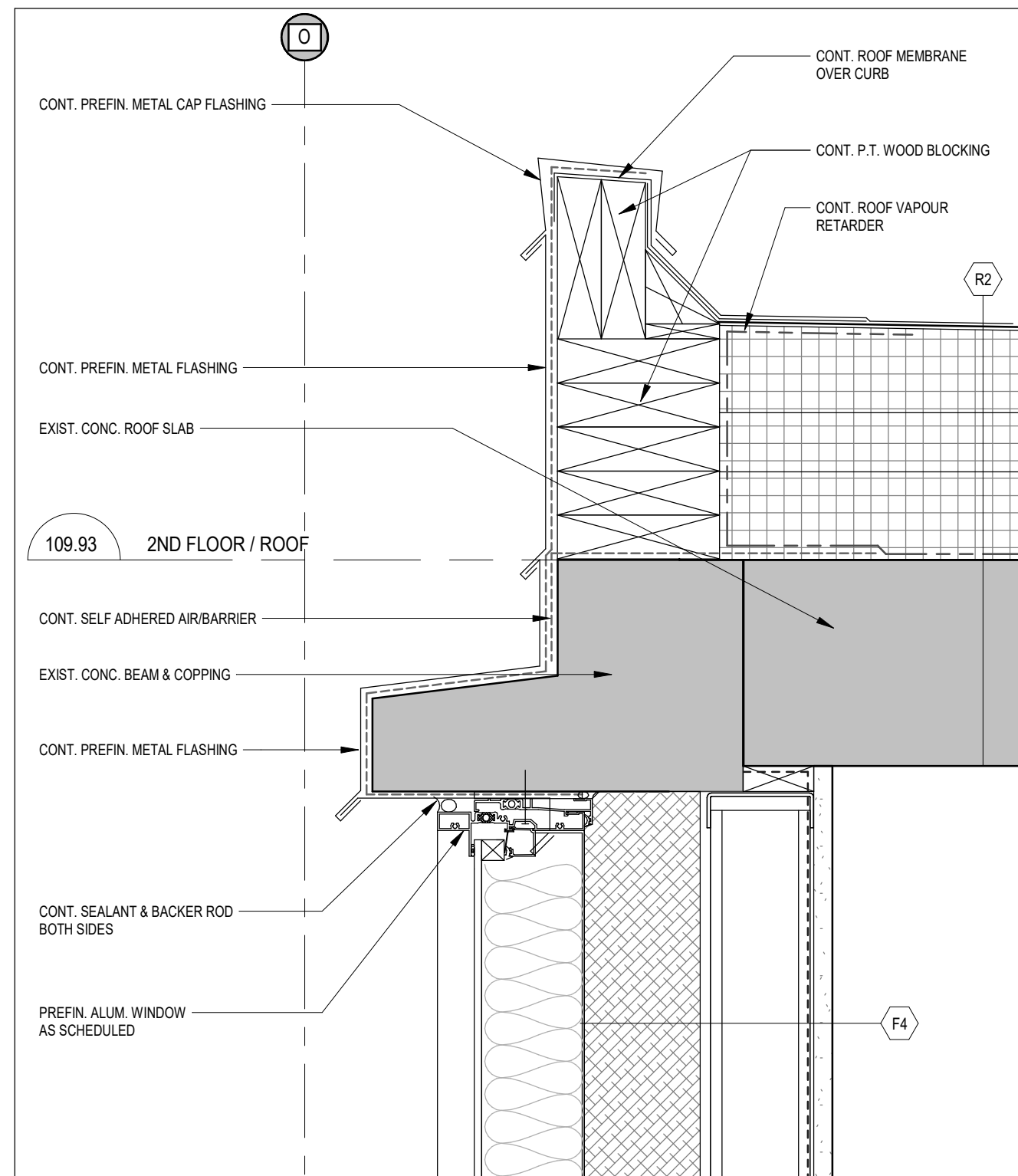
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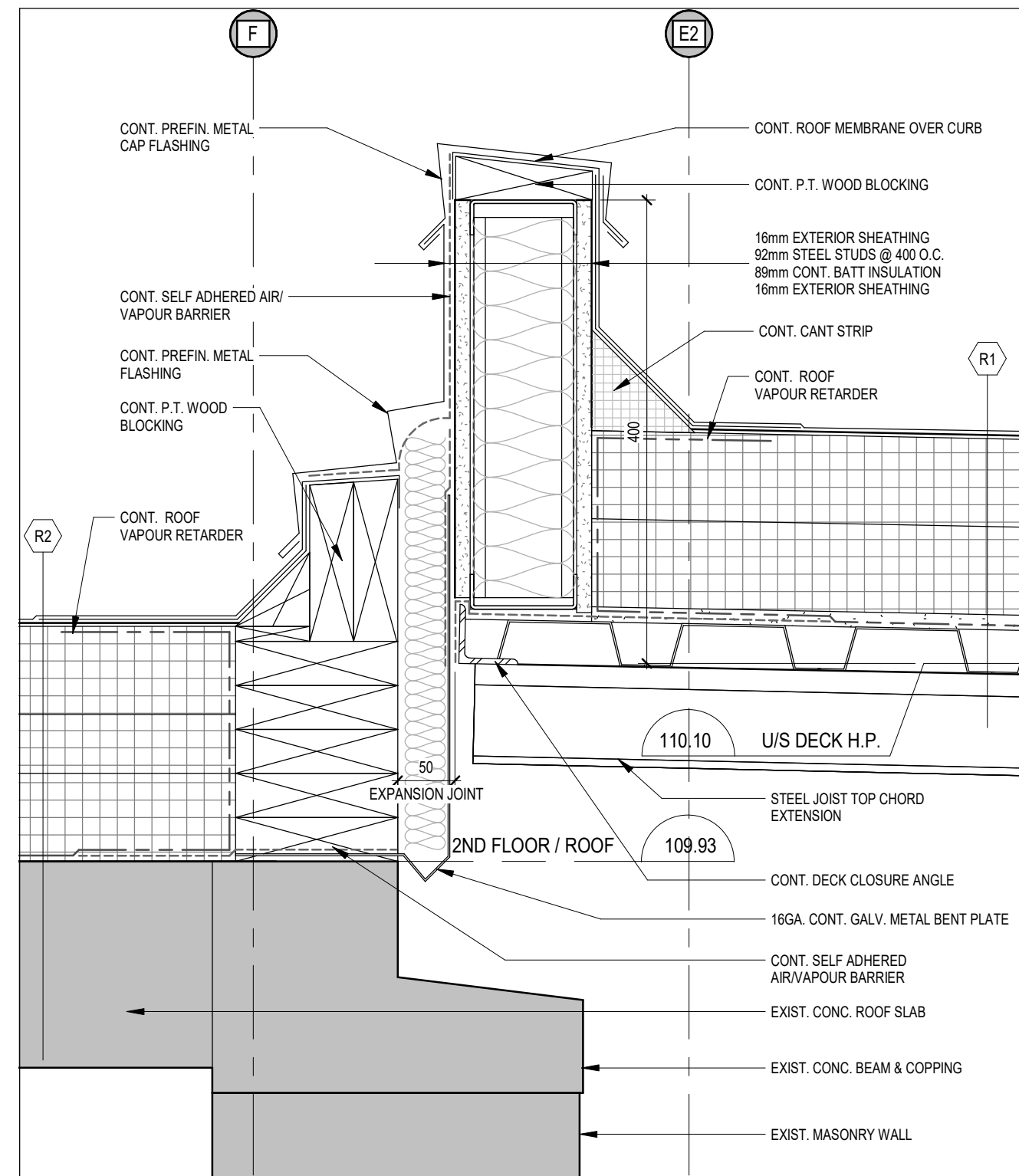
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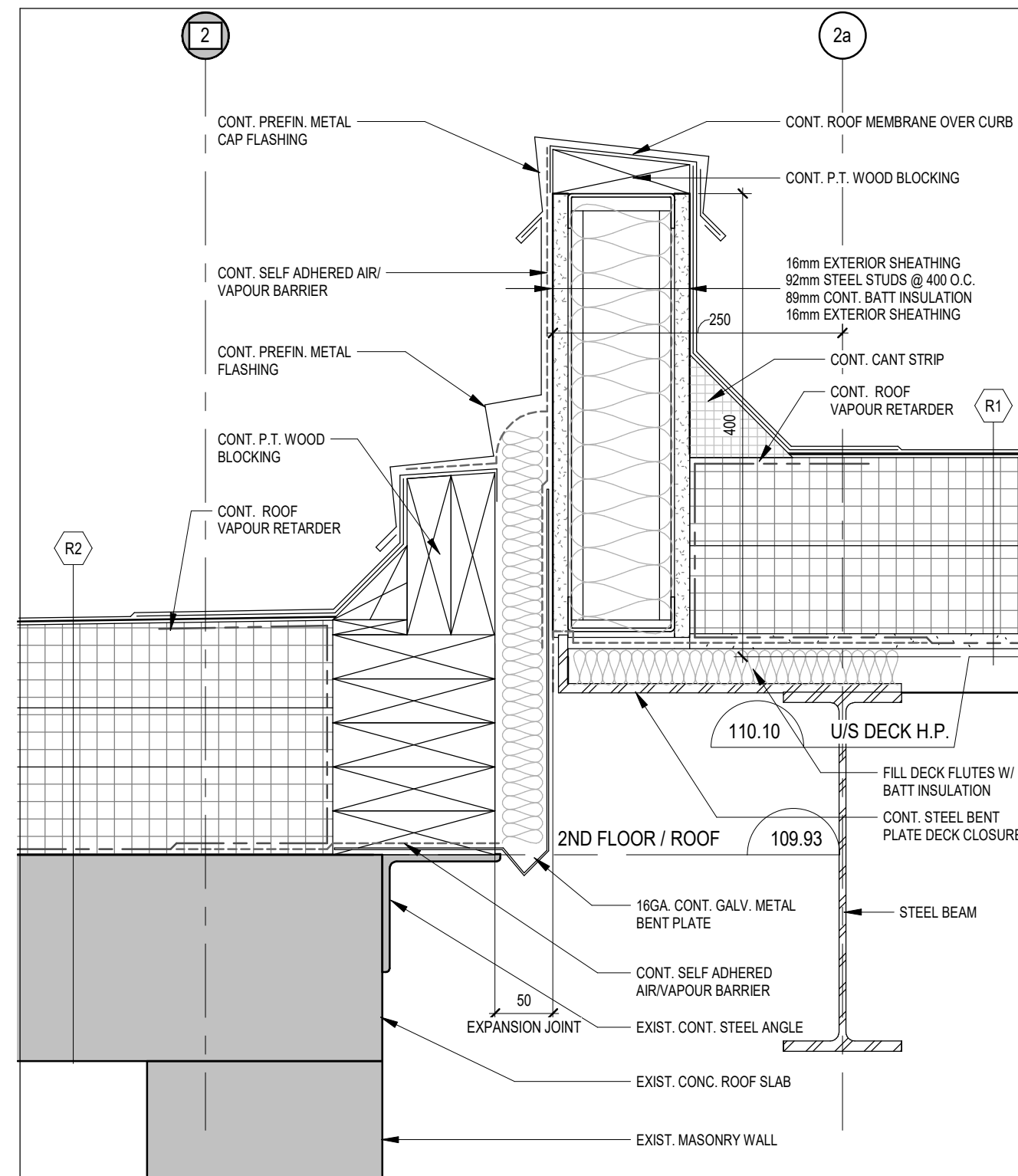
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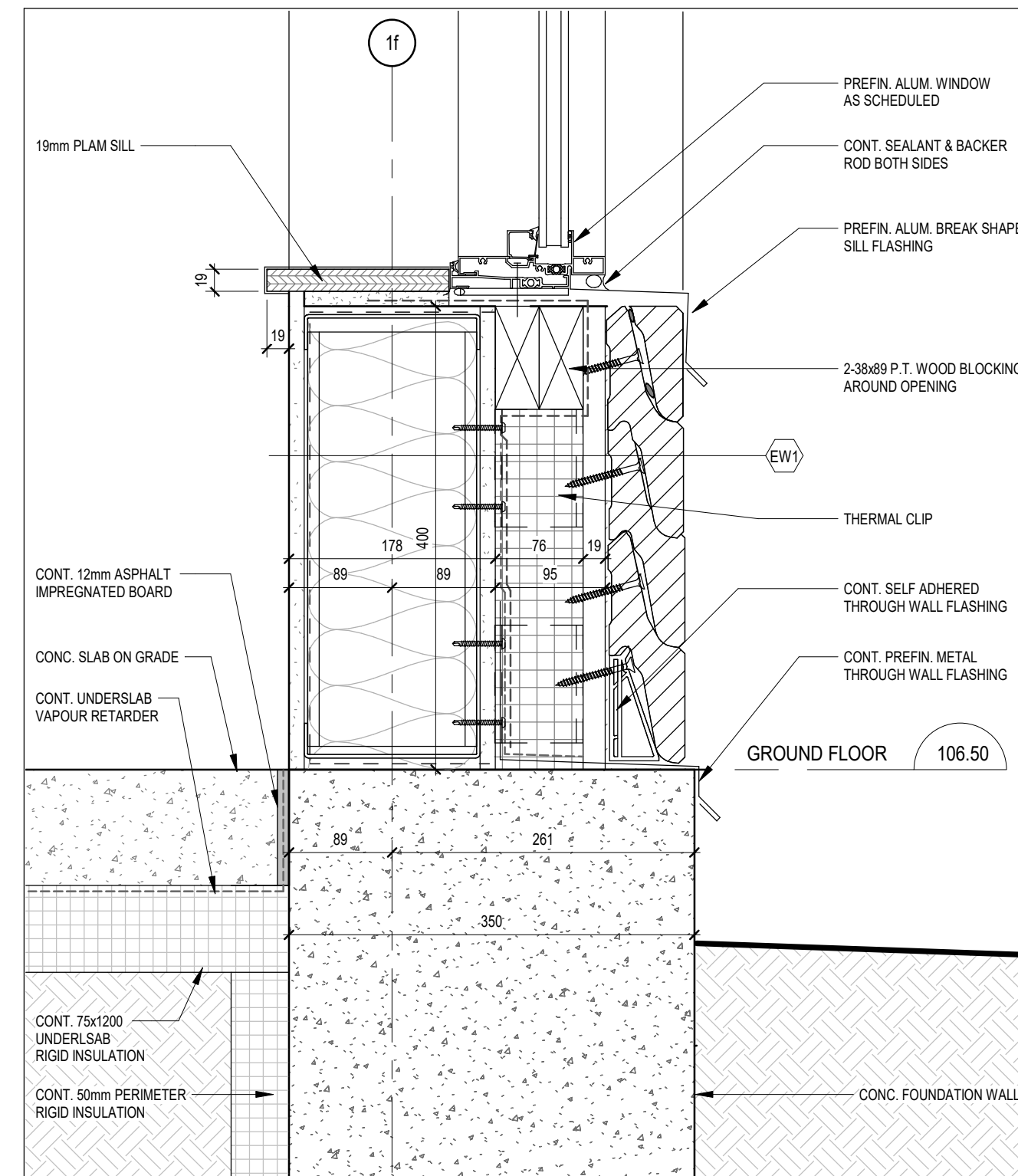
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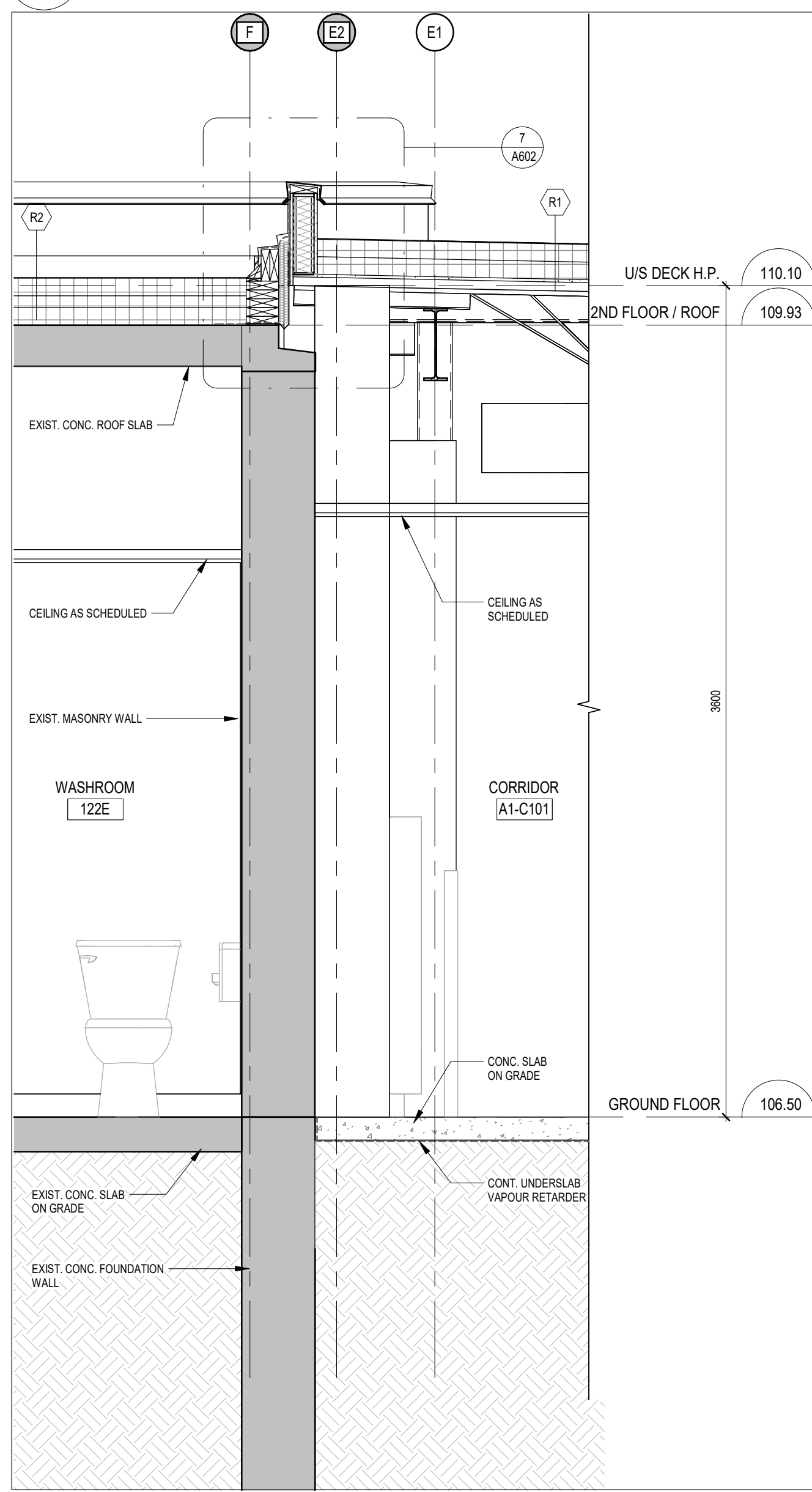
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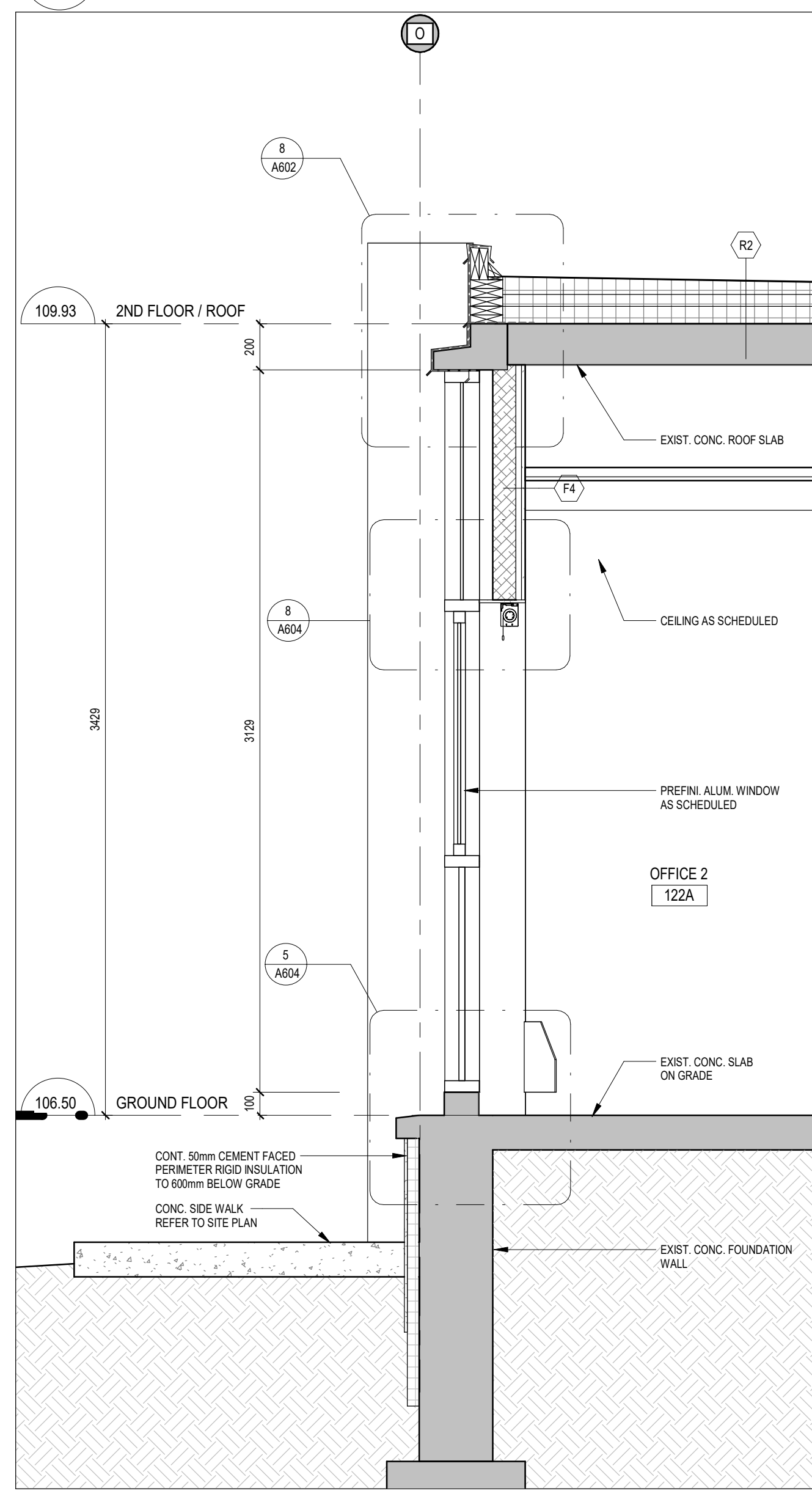
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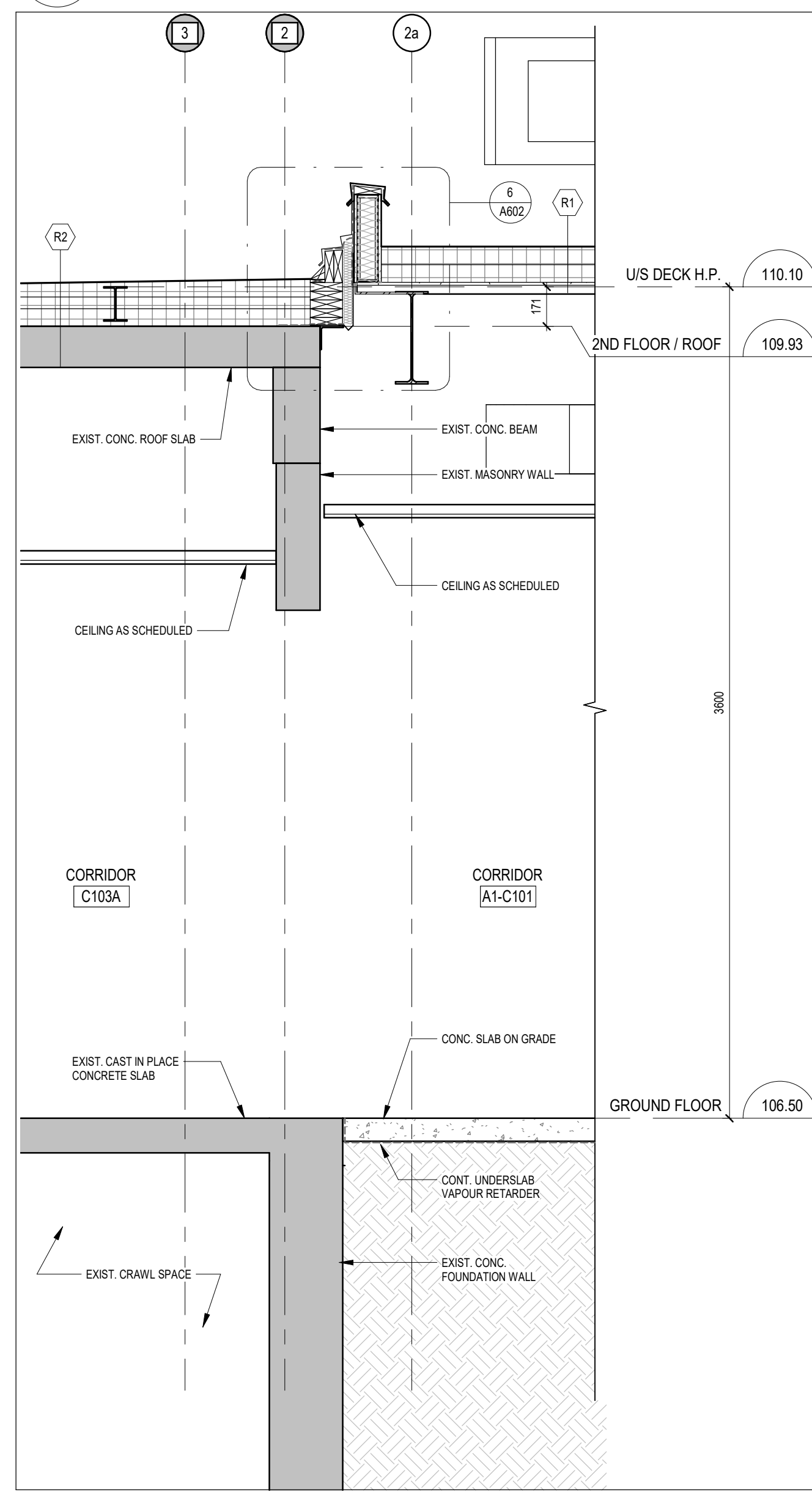
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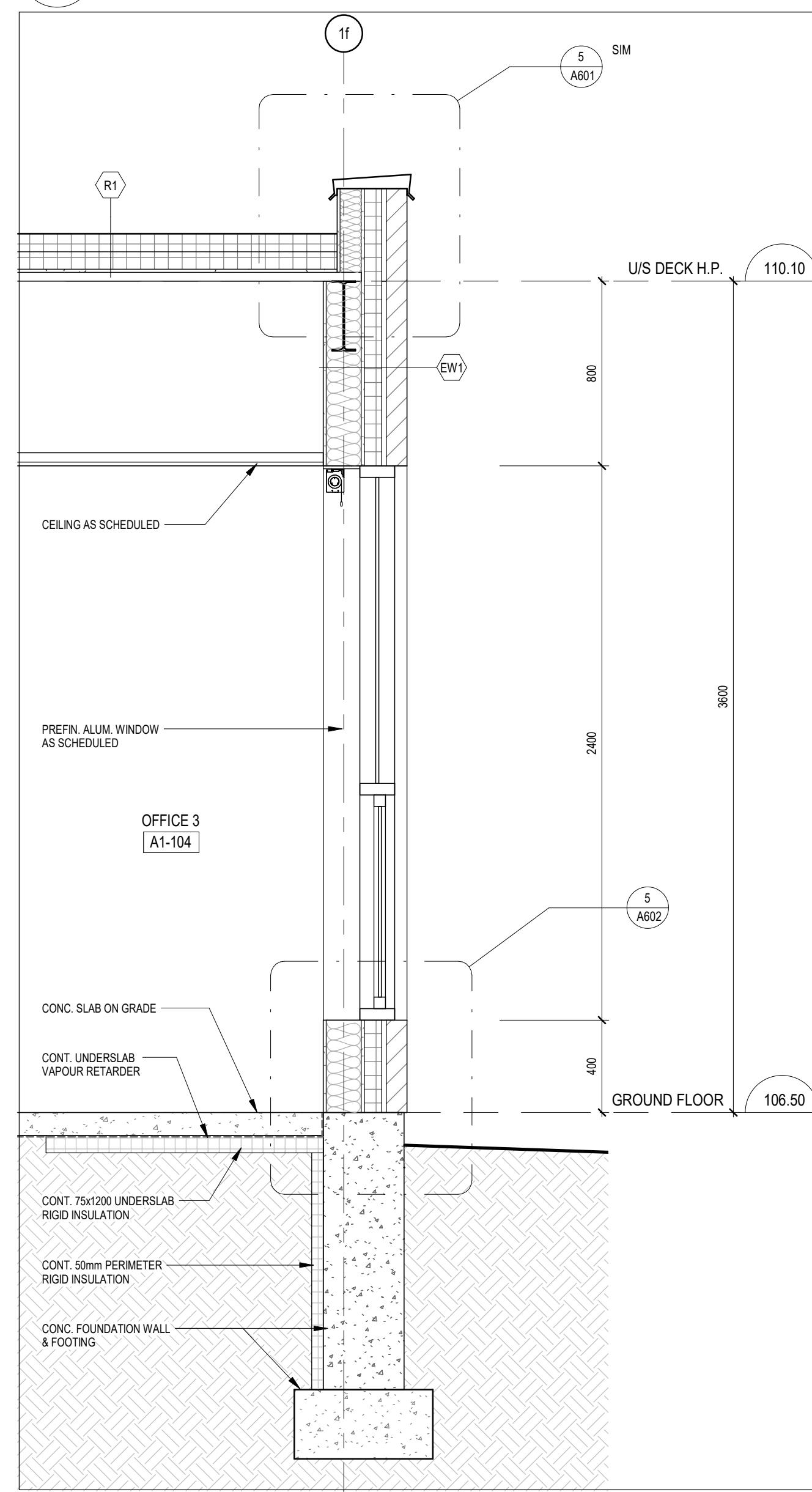
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A602 1:20



3 WALL SECTION
A602 1:20



2 WALL SECTION
A602 1:20



1 WALL SECTION
A602 1:20

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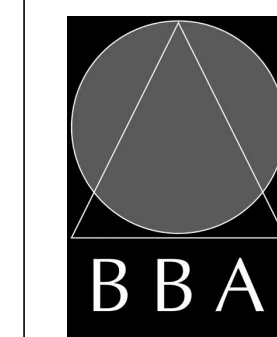
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PROJECT:
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DRAWING:
WALL SECTIONS



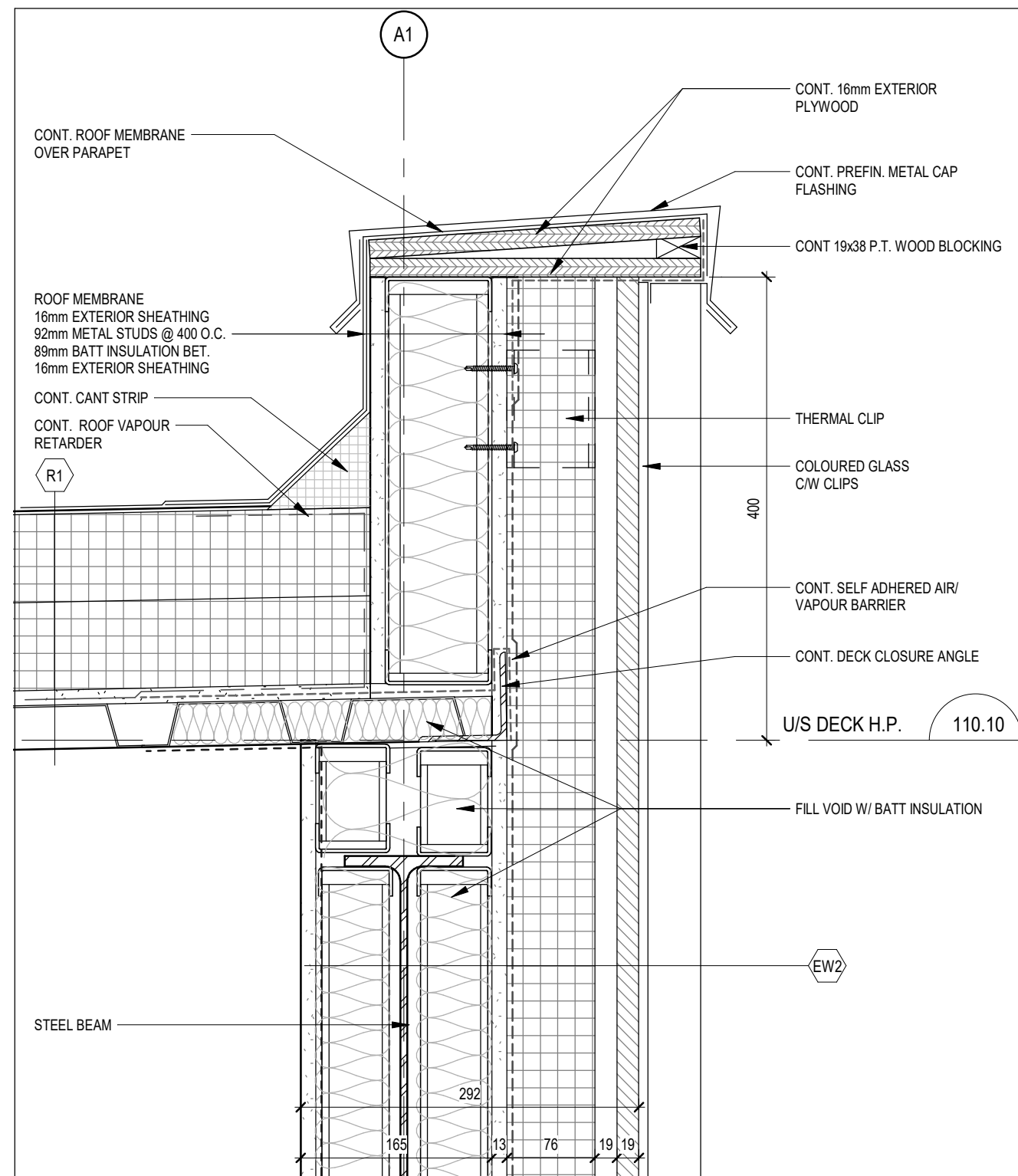
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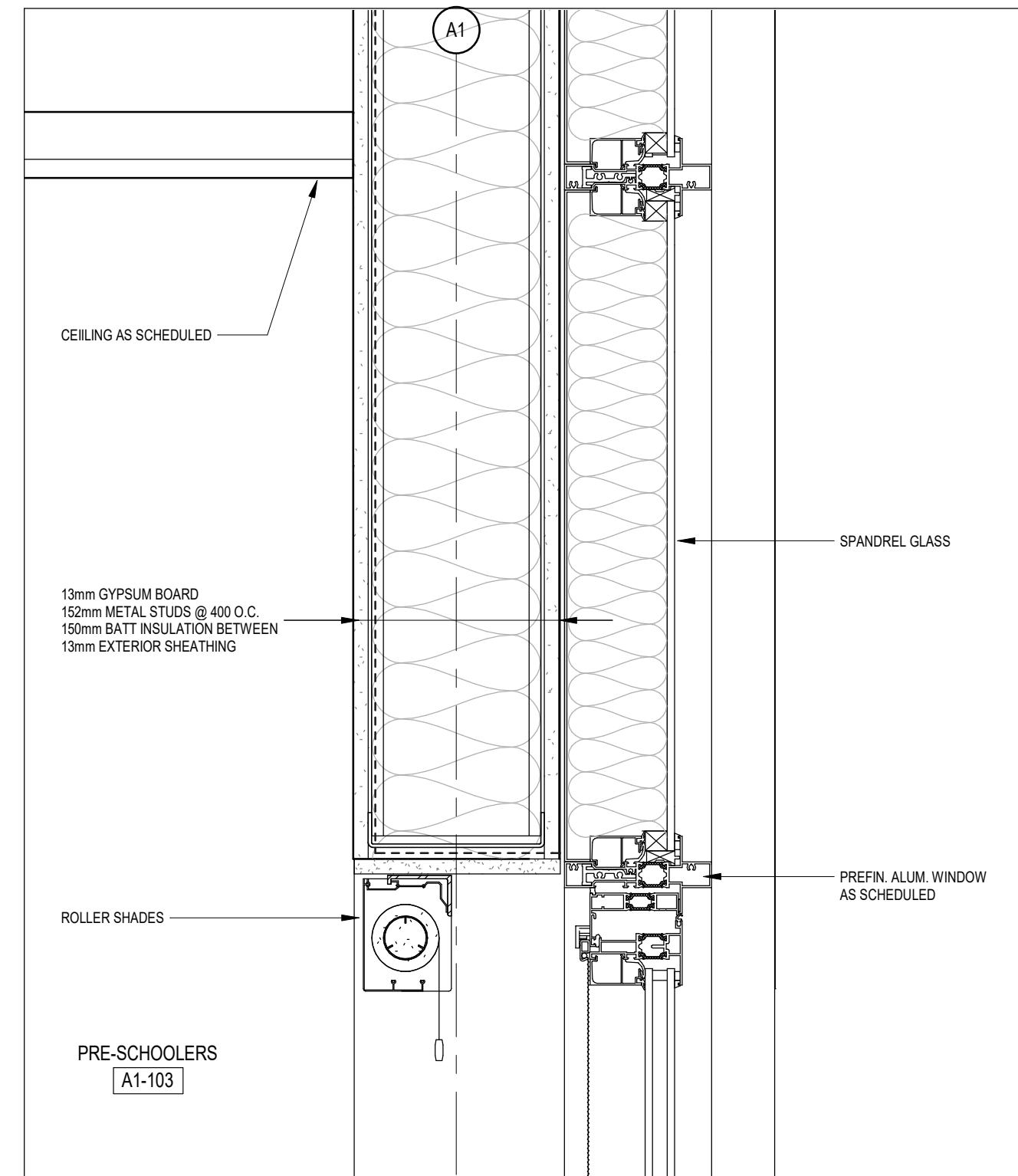
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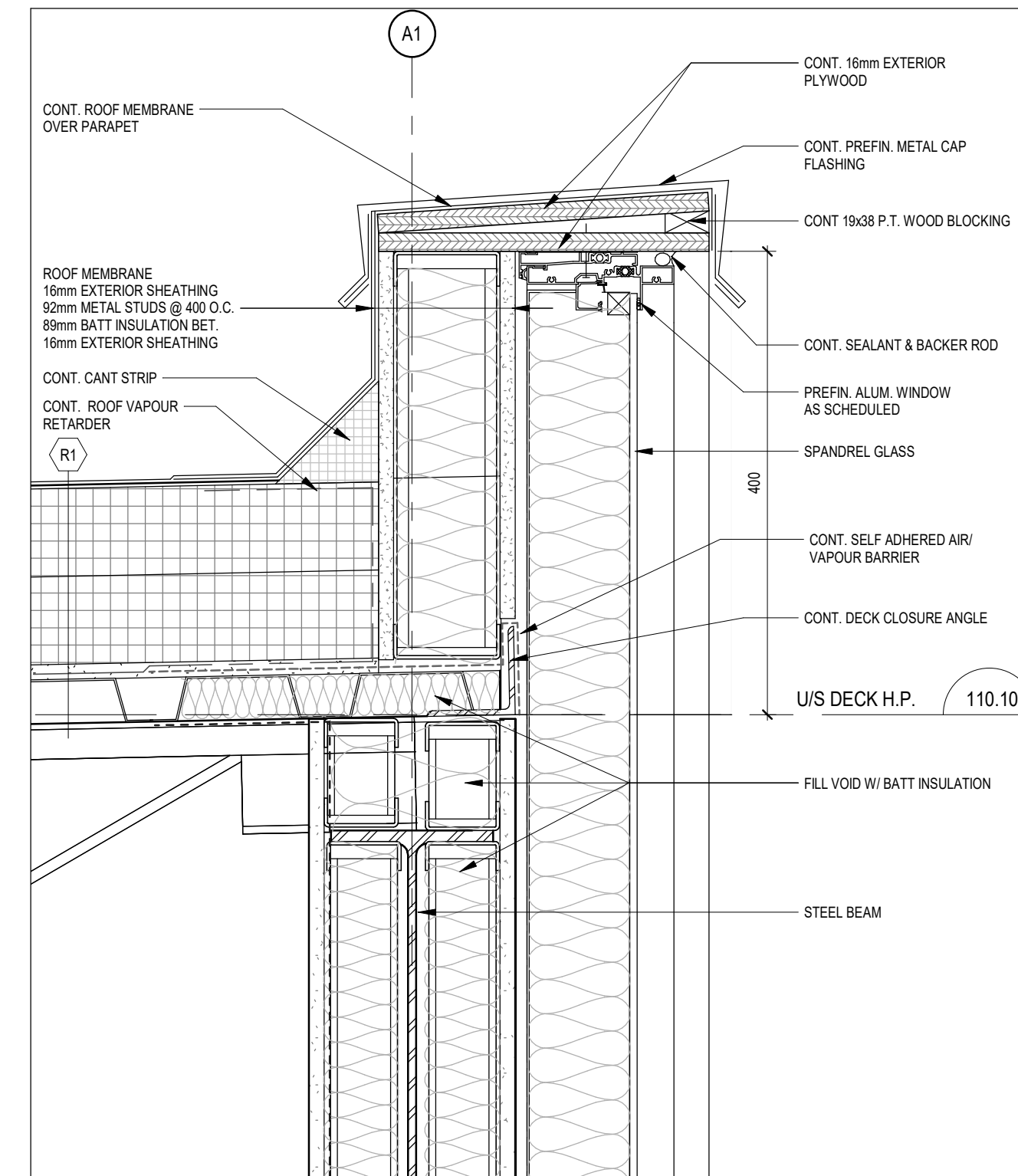
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18113
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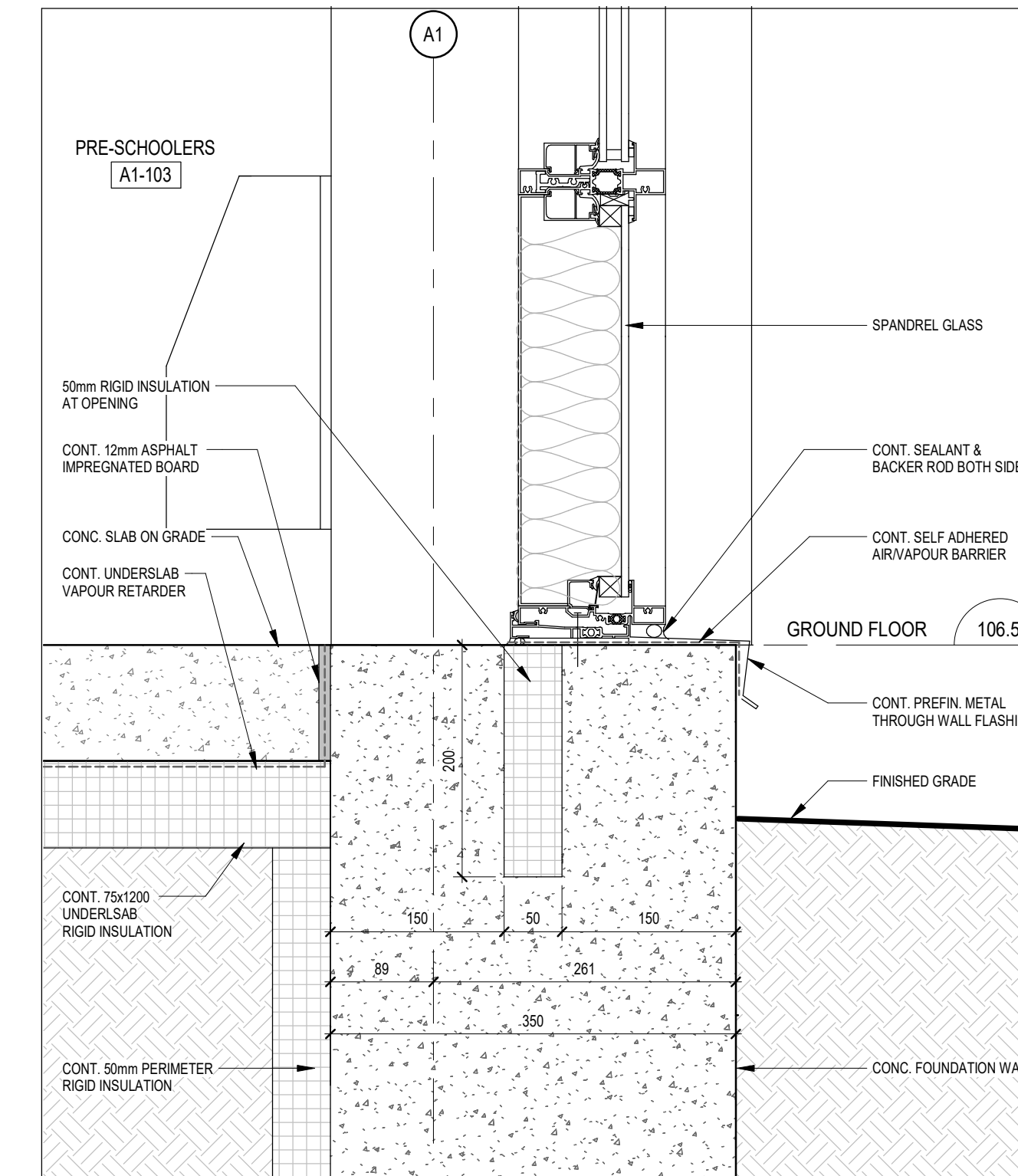
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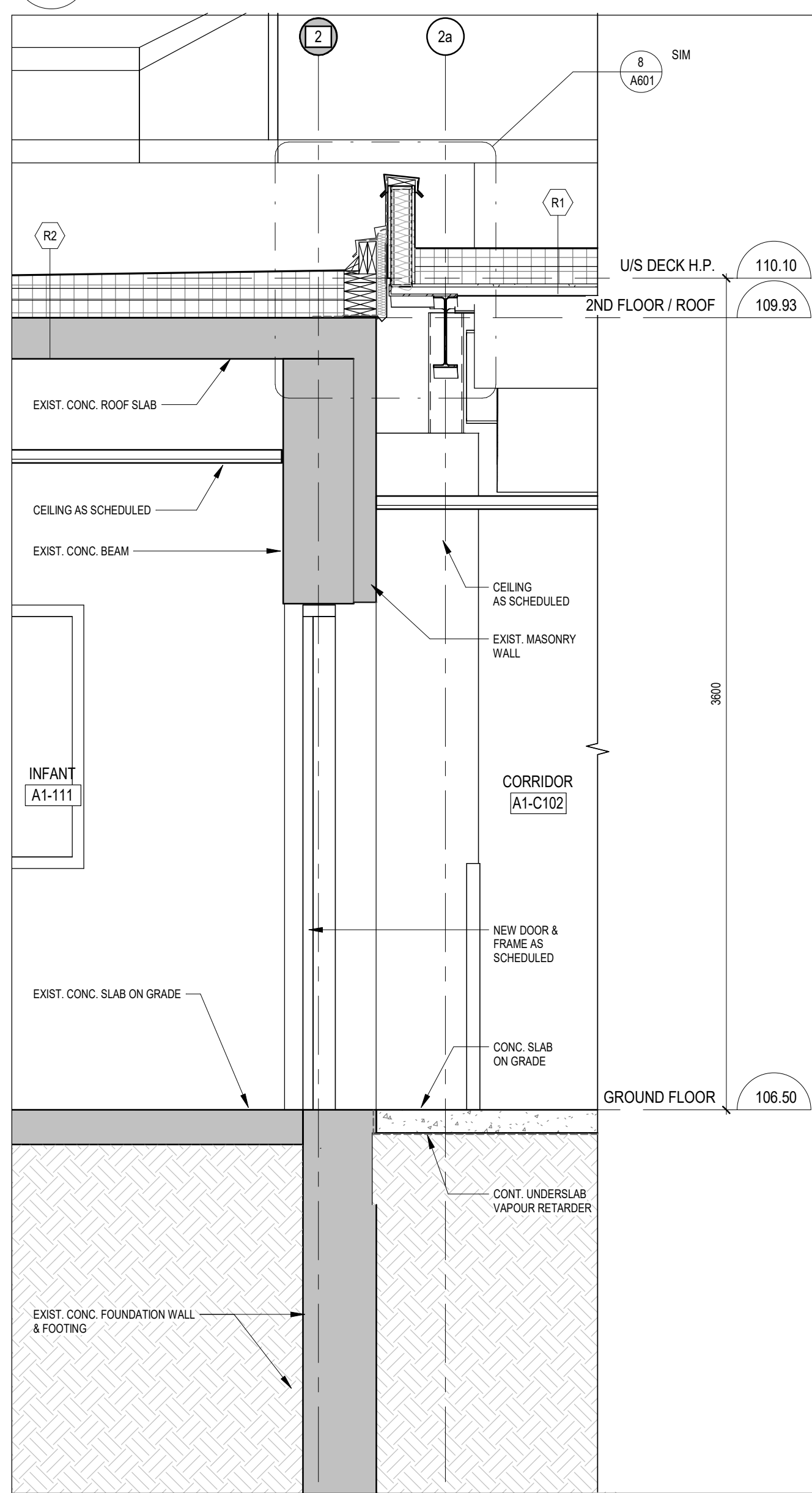
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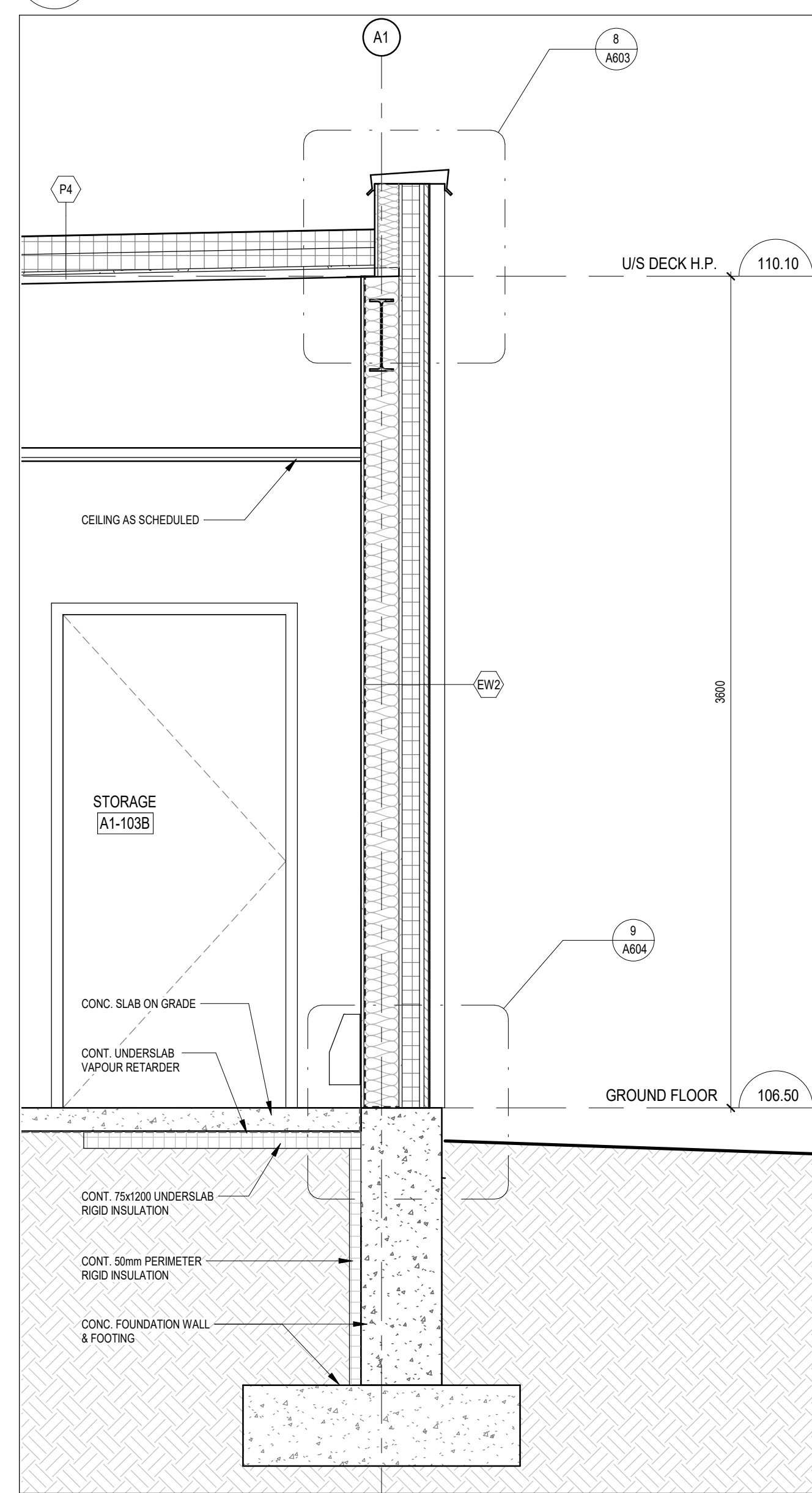
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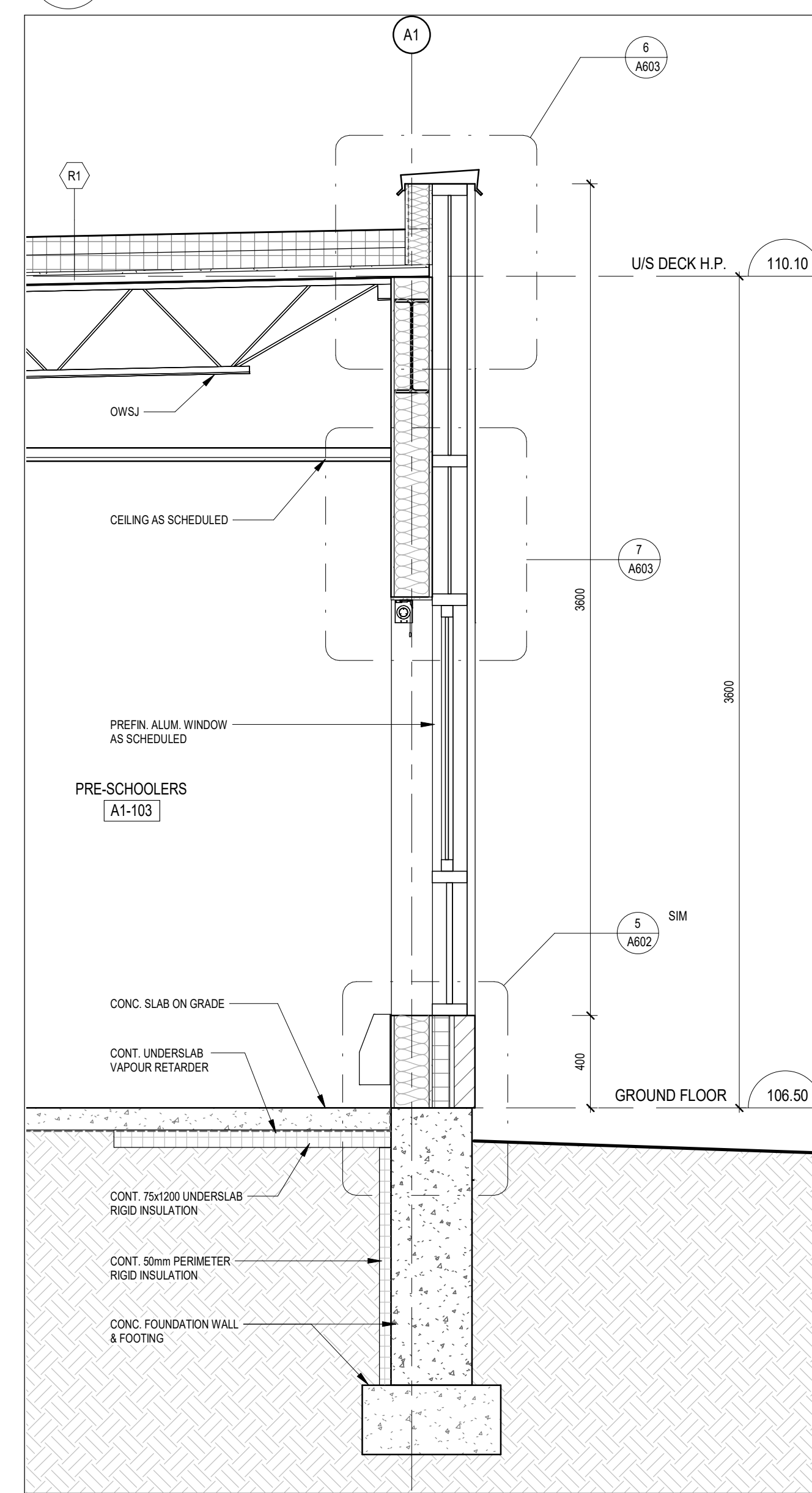
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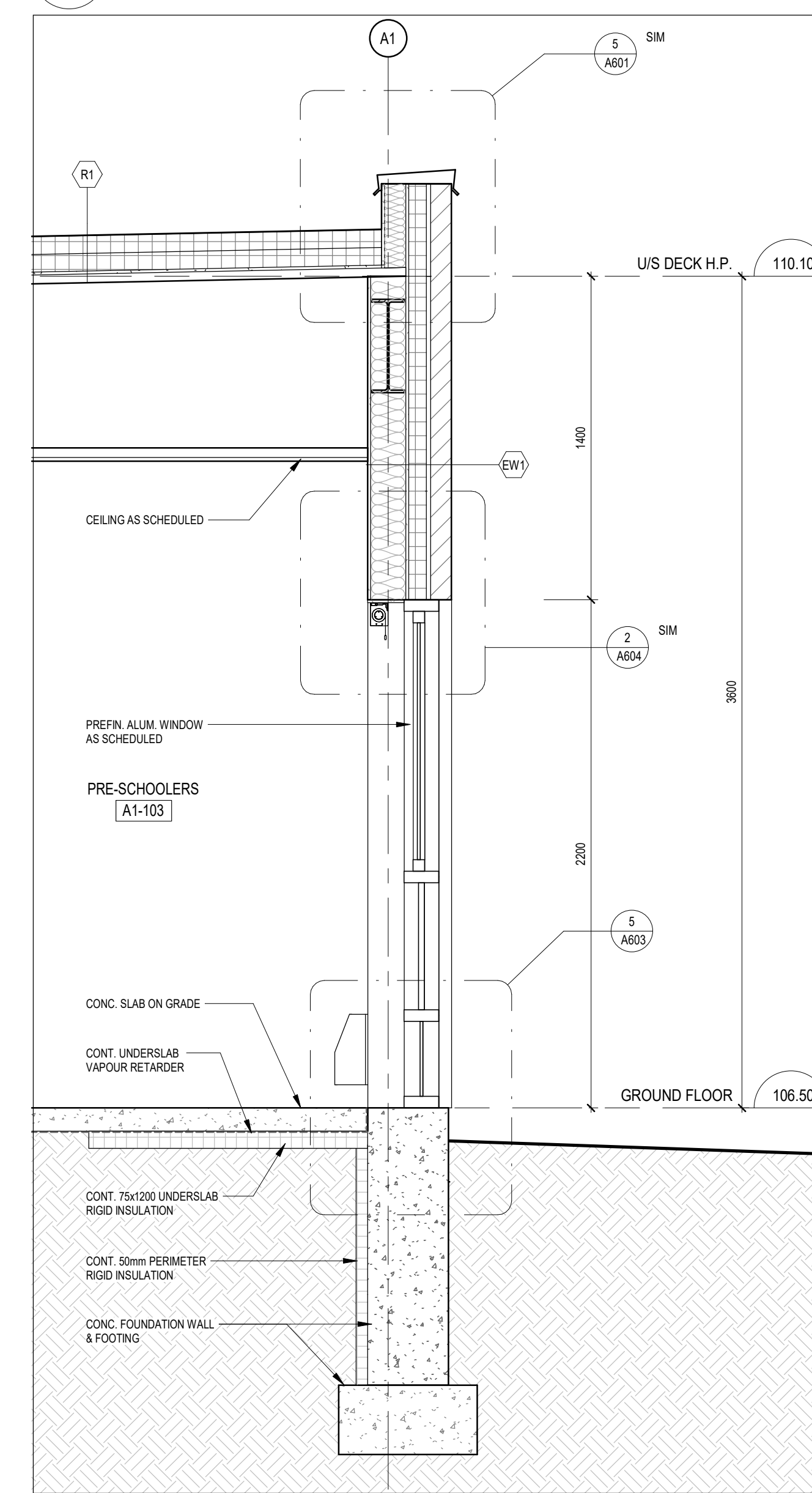
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A603 1:20



3 WALL SECTION
A603 1:20



2 WALL SECTION
A603 1:20



1 WALL SECTION
A603 1:20

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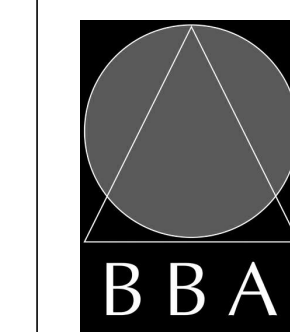
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PROJECT:
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Ecole Elementaire Pierre Elliot Trudeau
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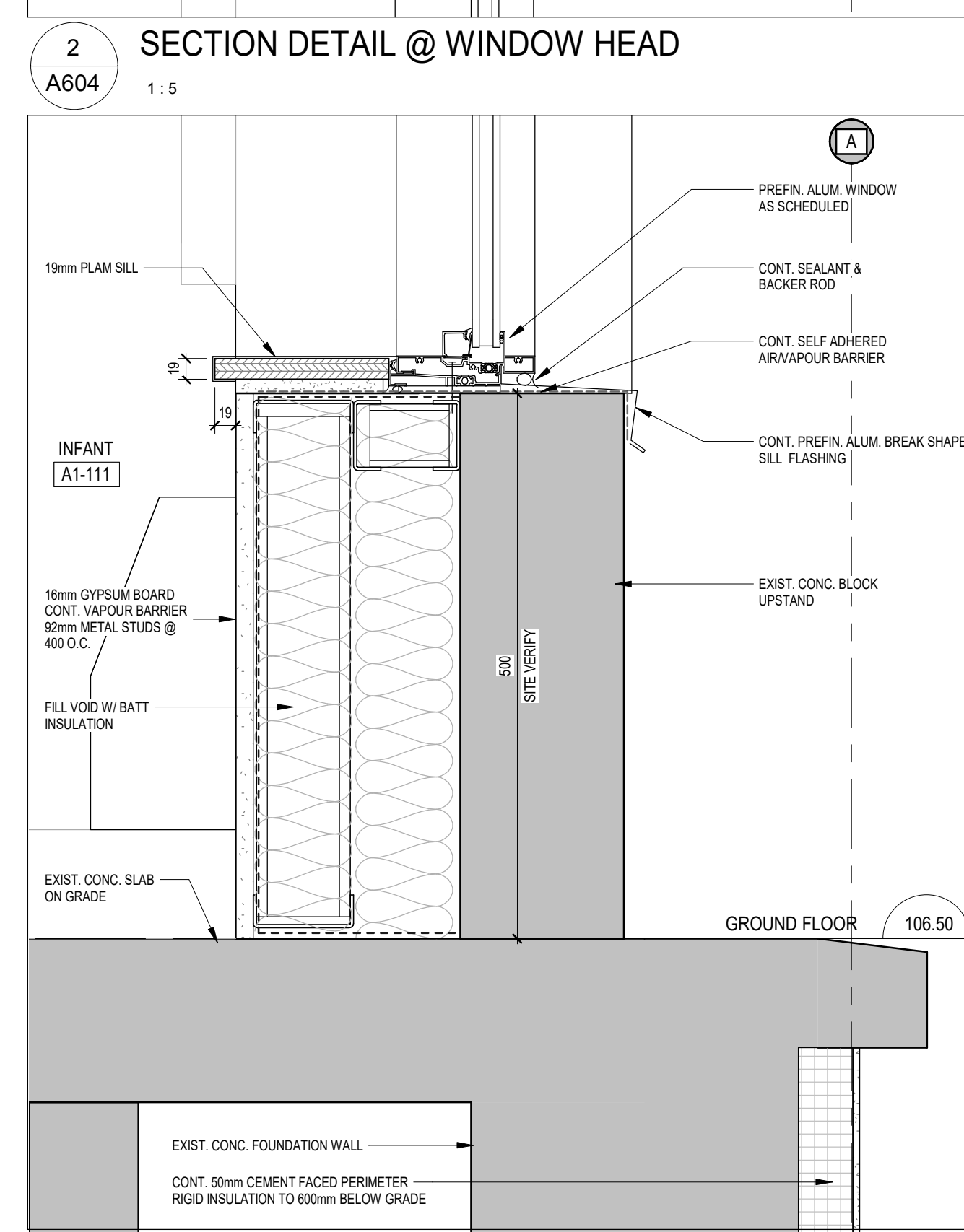
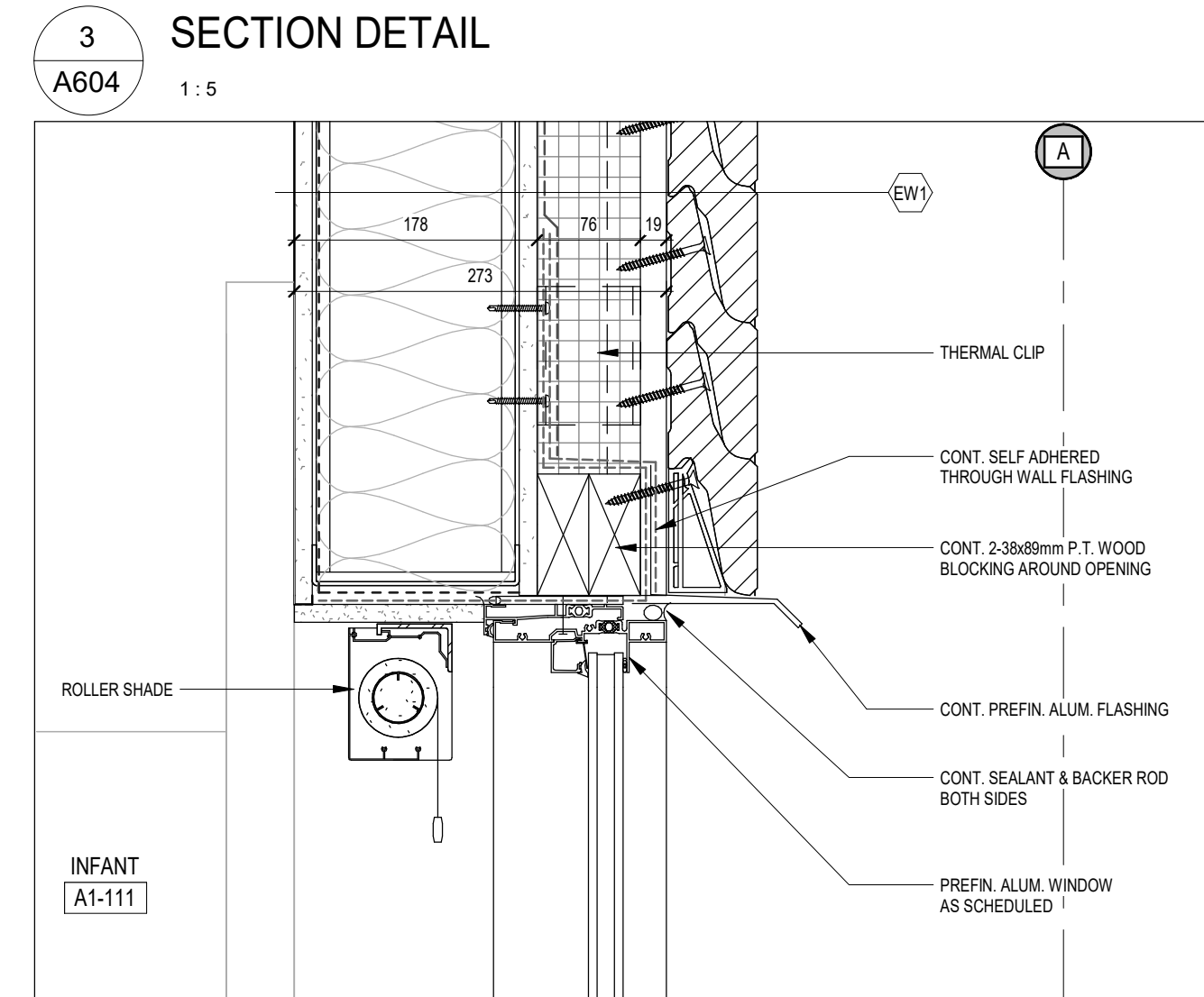
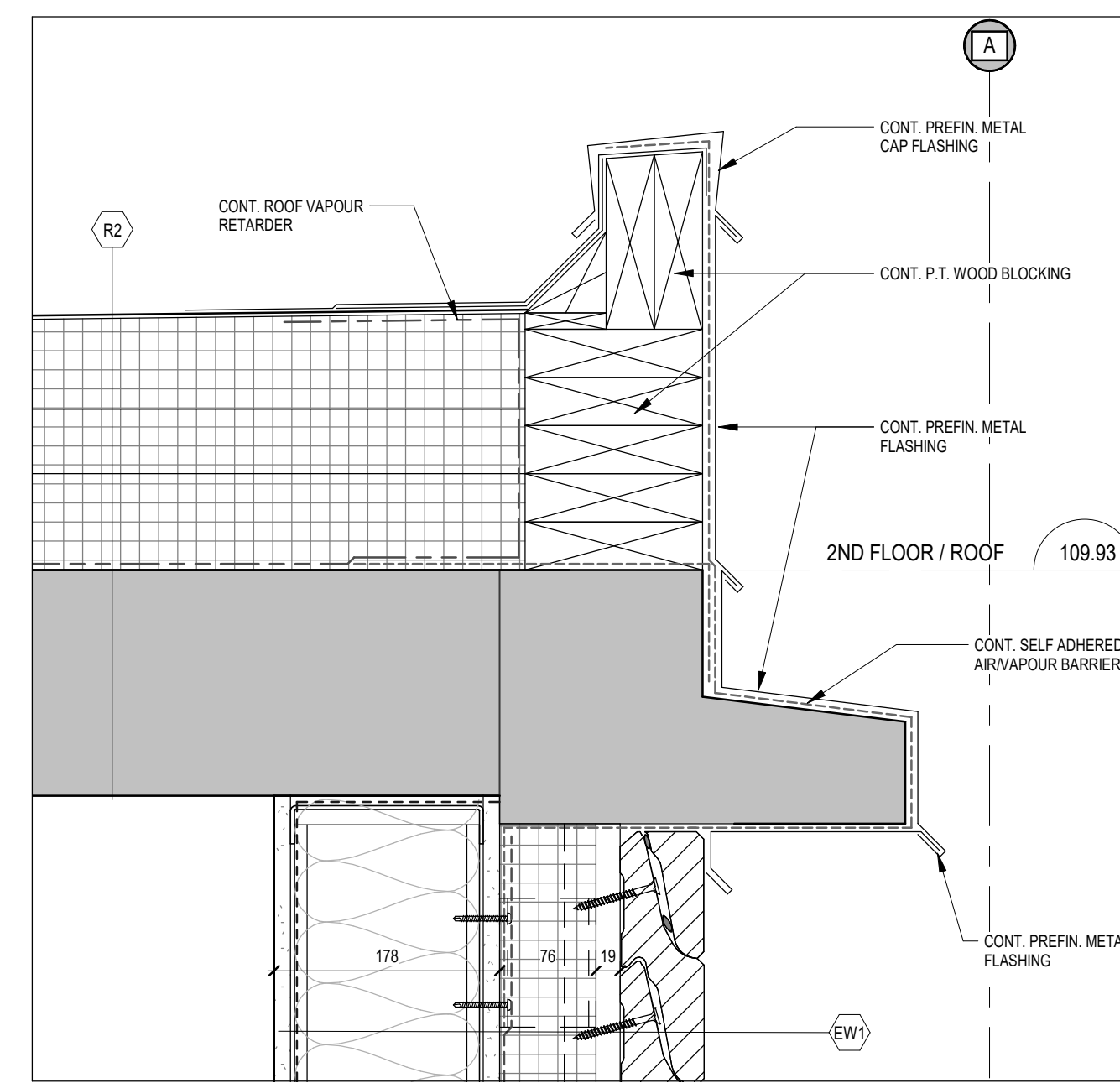
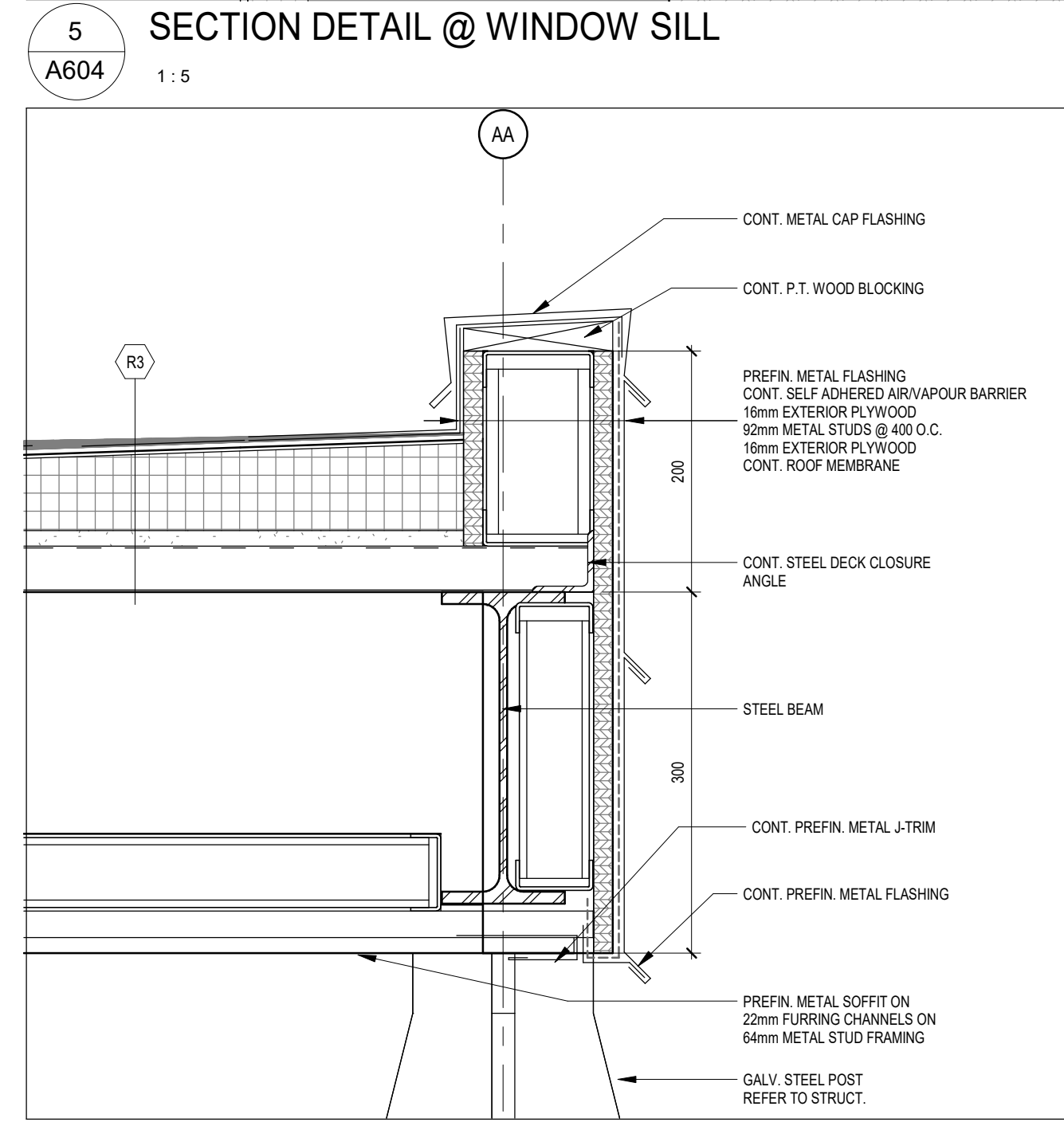
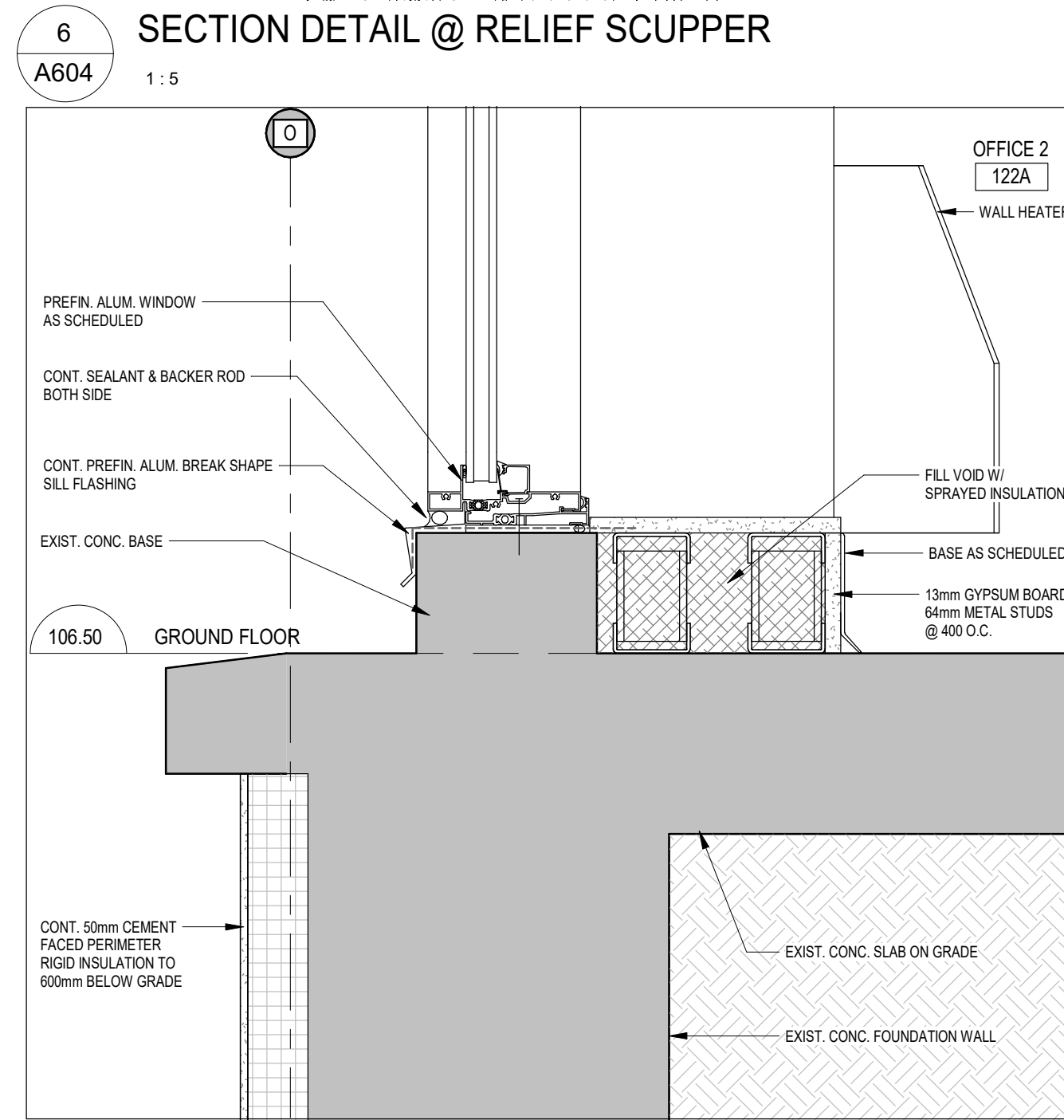
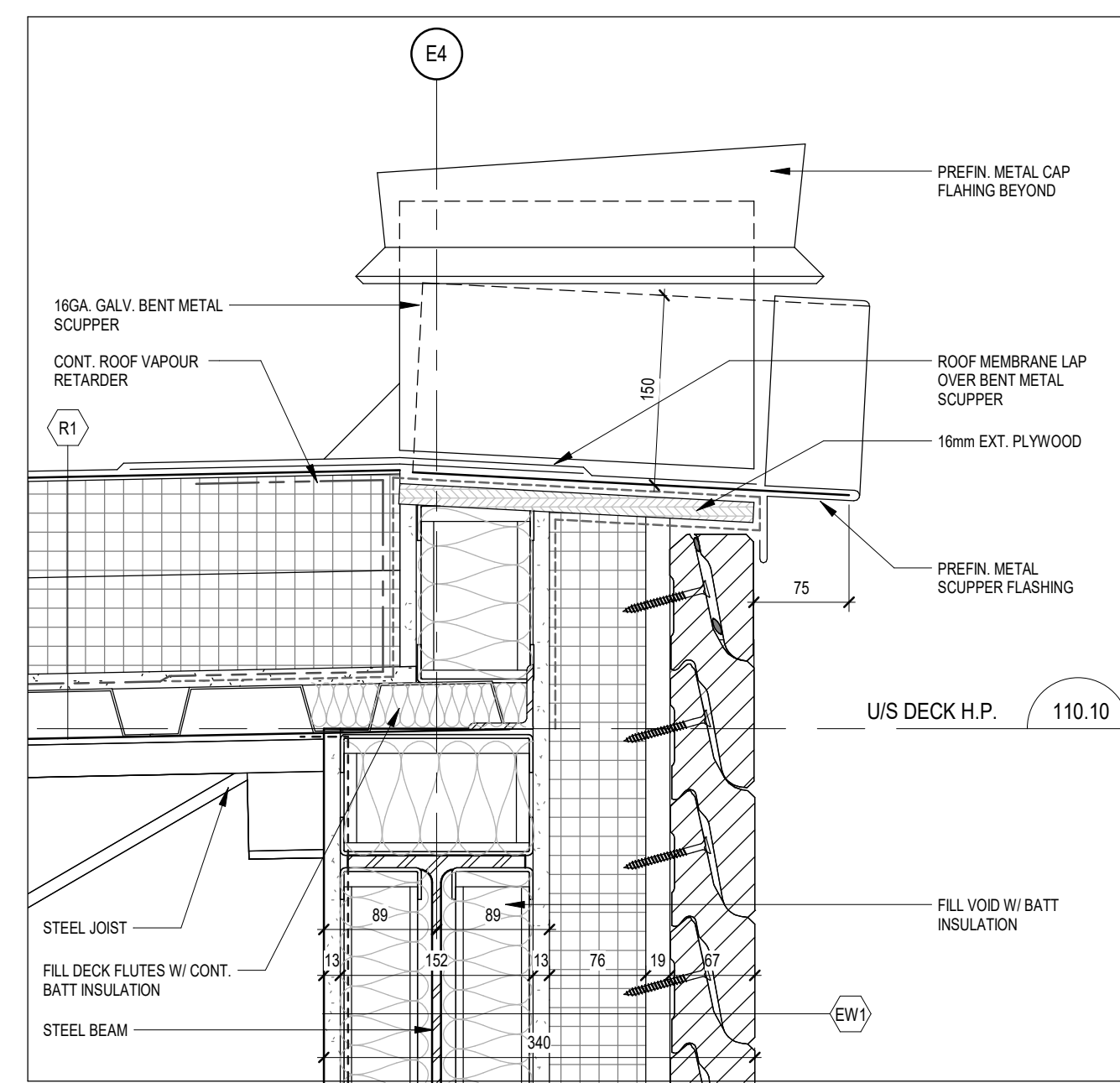
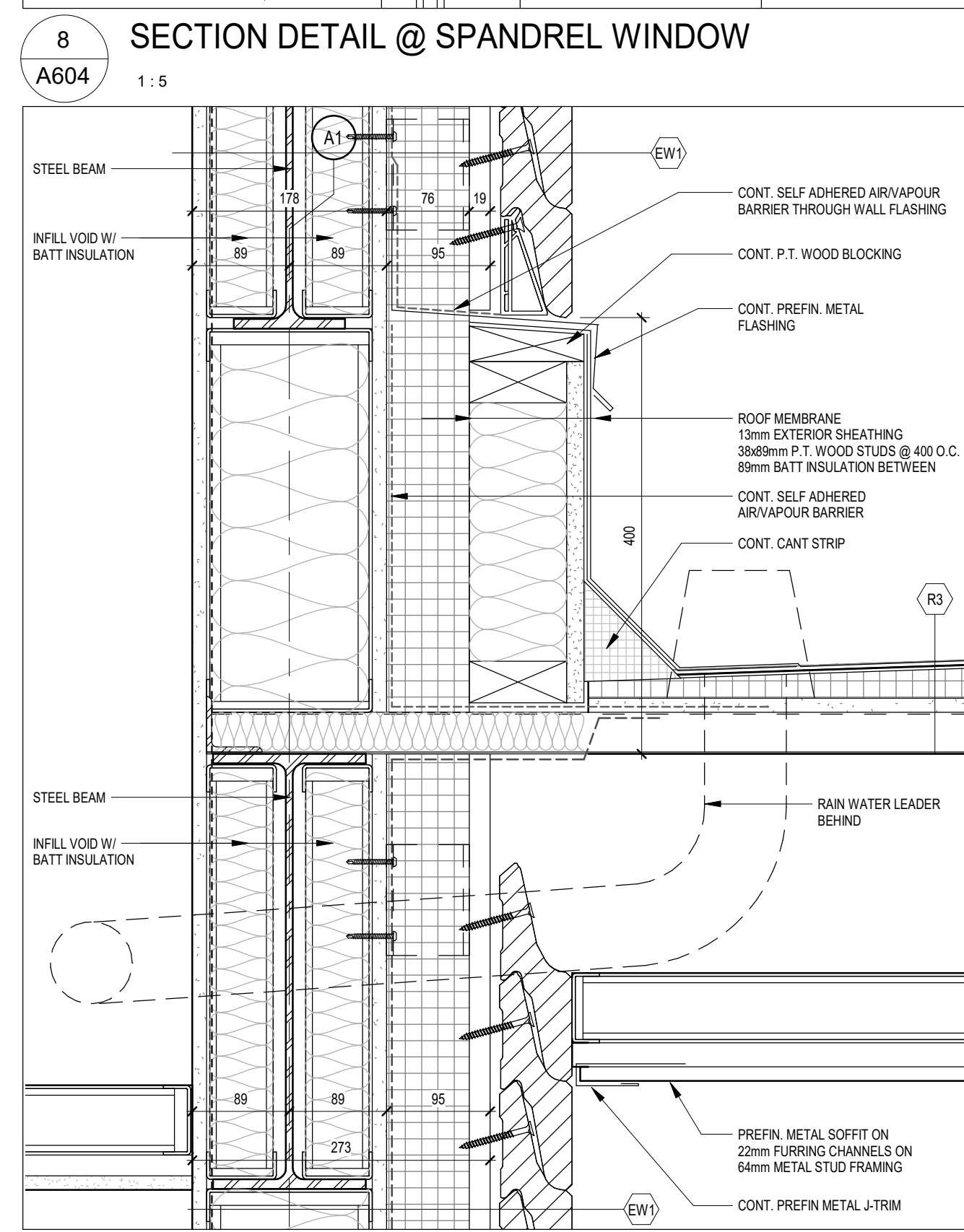
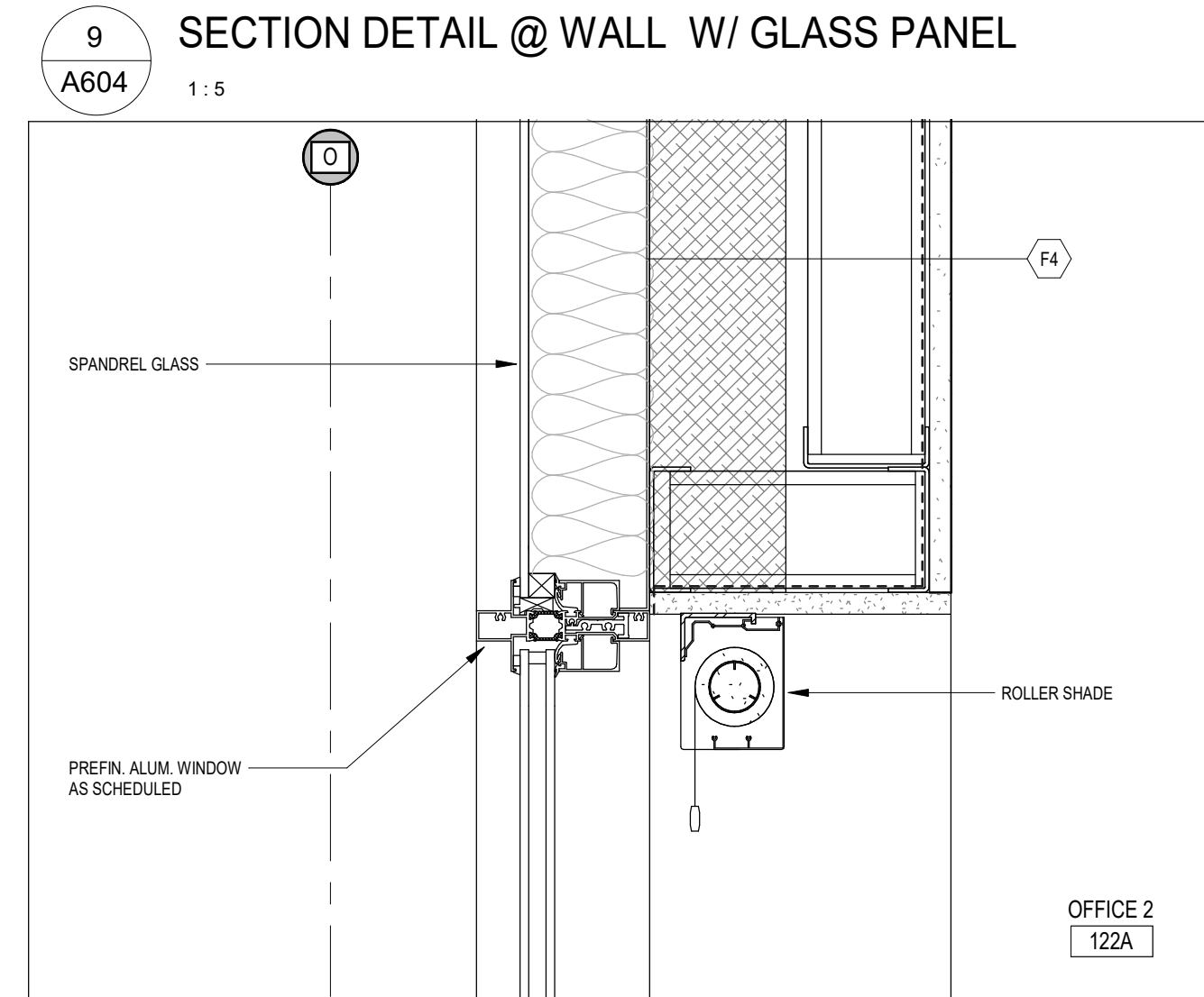
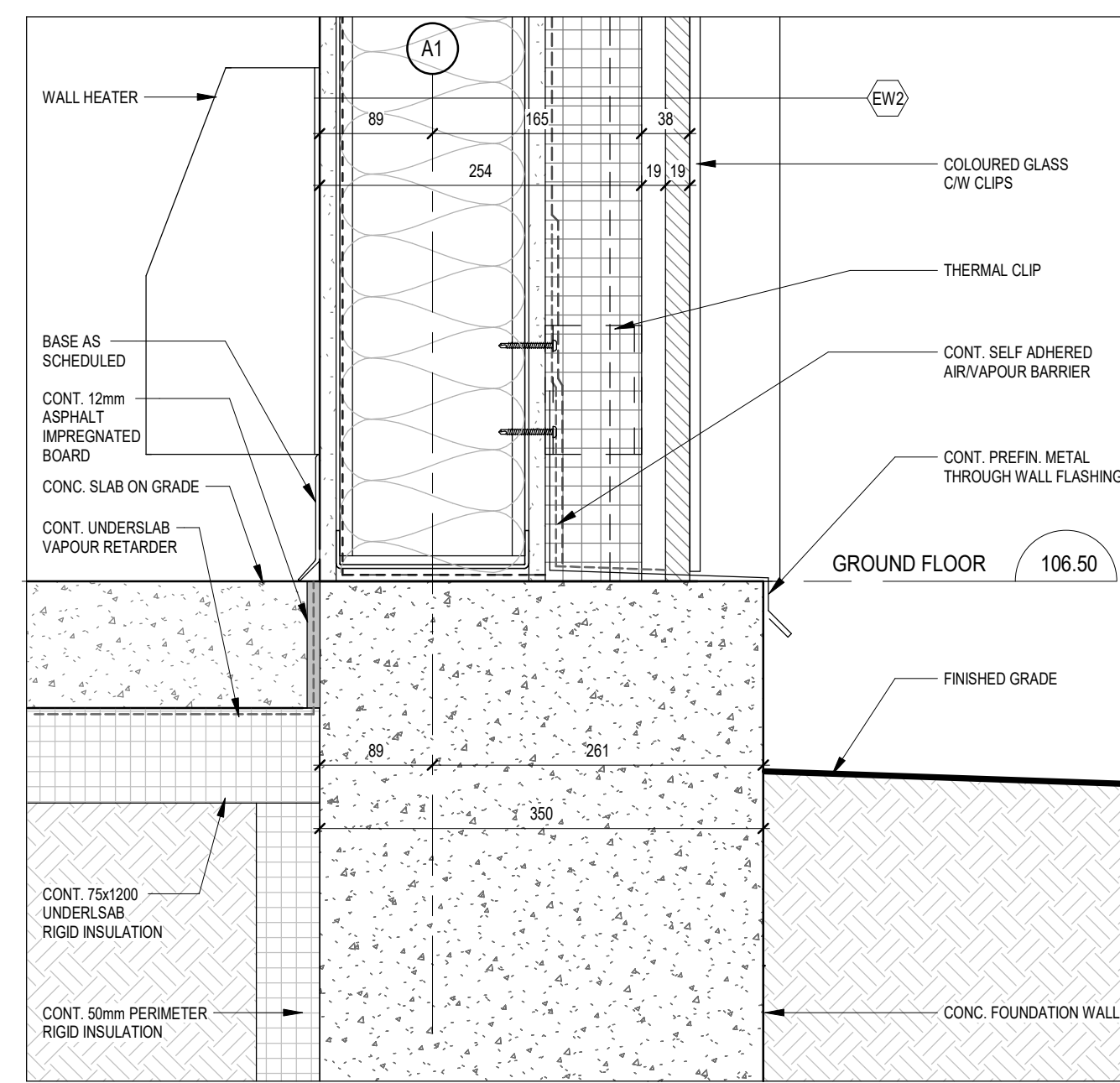
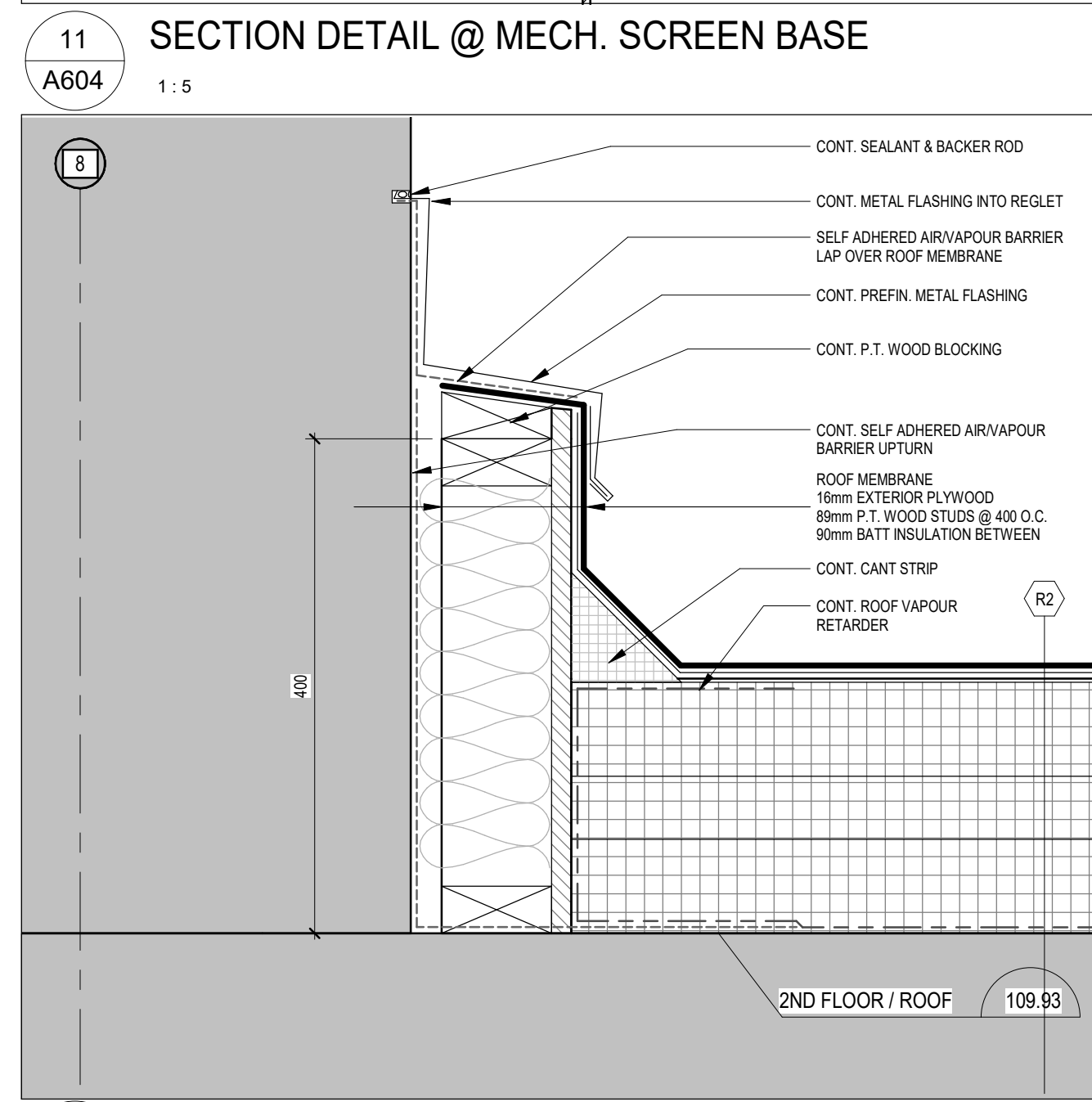
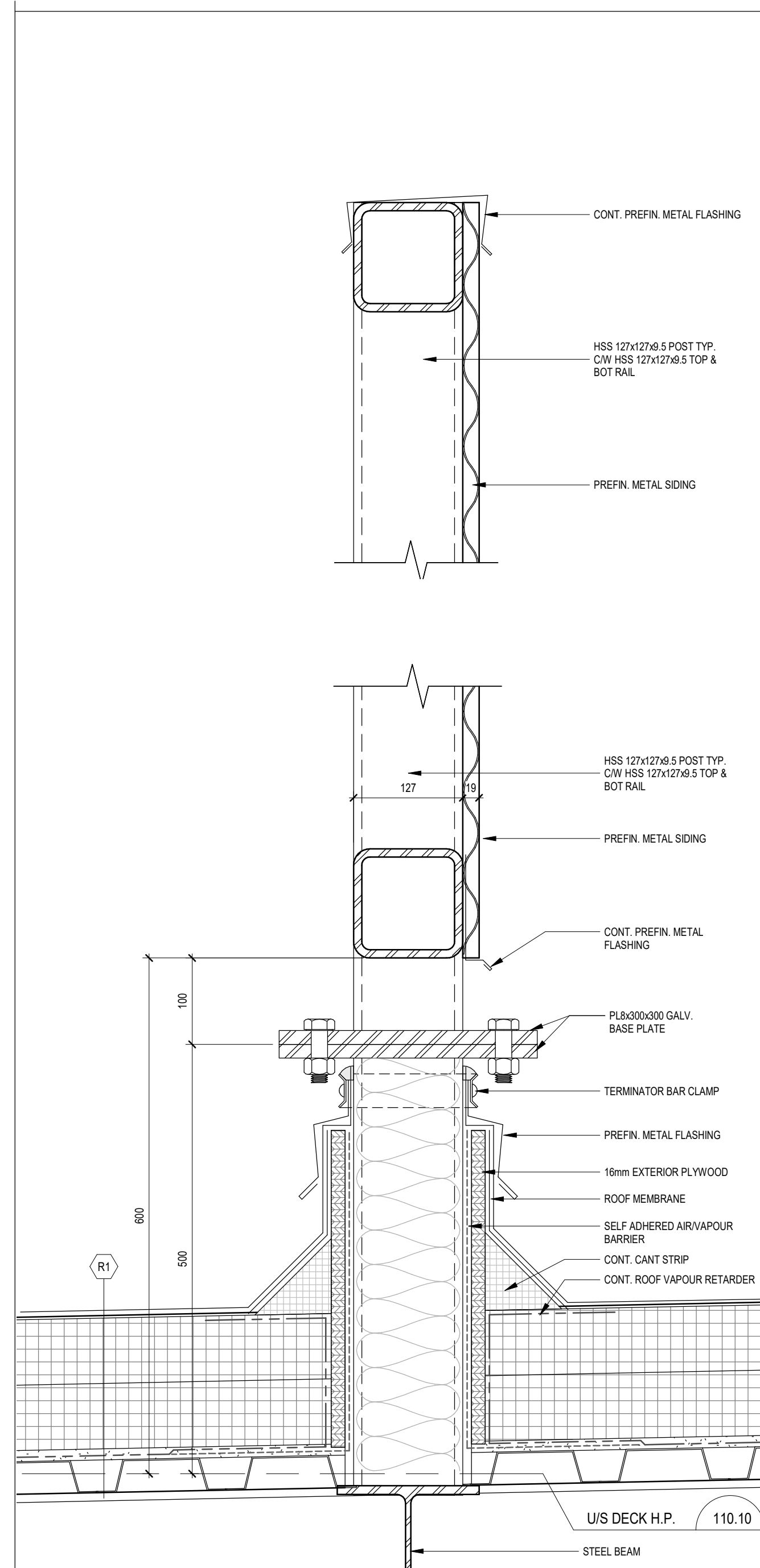
DRAWING:
WALL SECTIONS



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e-mail: bba@bba-archeng.com

DESIGN BY: W2	DOC CONTROL DATE:
DRAWN BY: NV	% COMPLETE:
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DATE: 02/23/23	SCALE: As indicated
FILE: Drawings - Current - 18113.RVT	DRAWING NO: A603
PROJECT NO: 18113	



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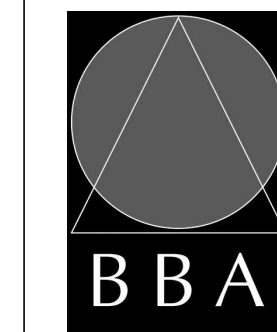
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NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

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DRAWING:
SECTION DETAILS



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DRAWN BY: NV
CHECKED BY: INTAL
DATE: 02/22/23
SCALE: 1:5
FILE: Drawings - Current - 18113.RVT

DRAWING NO:
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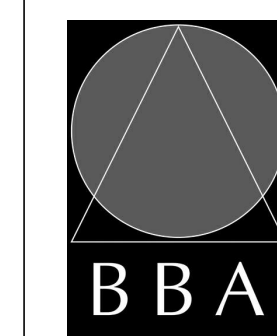
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DRAWING:
SECTION DETAILS



**BARRY BRYAN
ASSOCIATES**

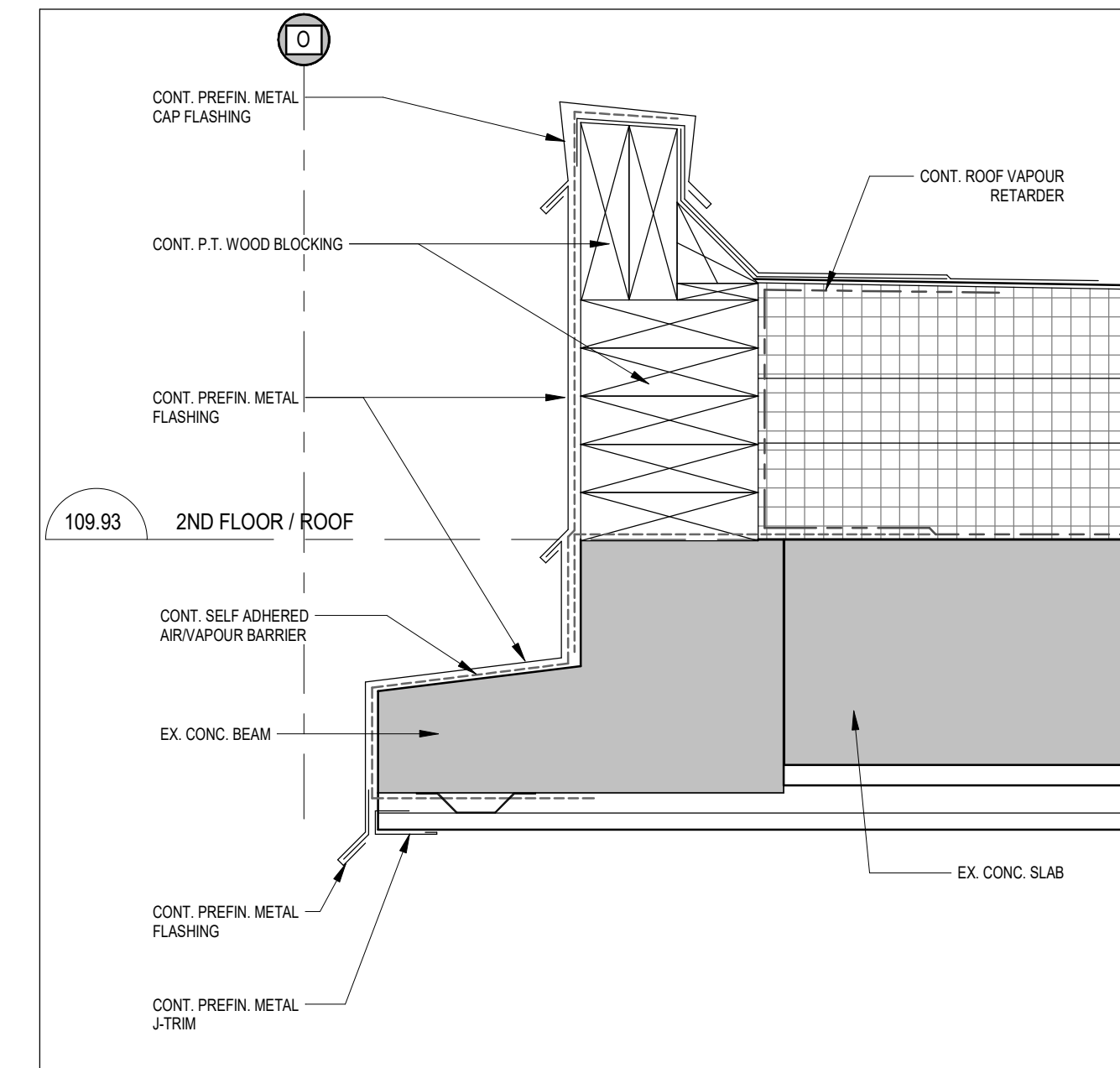
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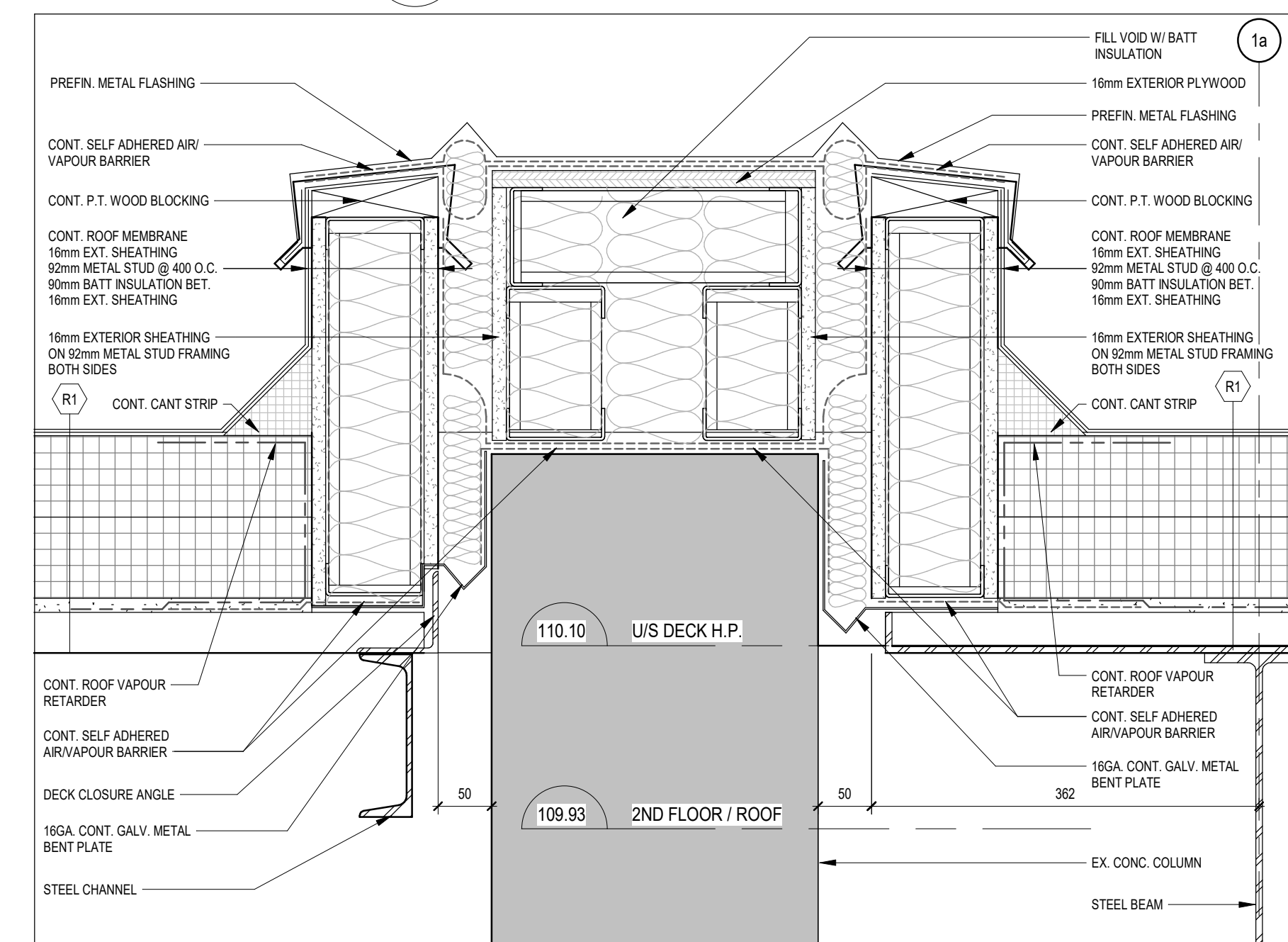
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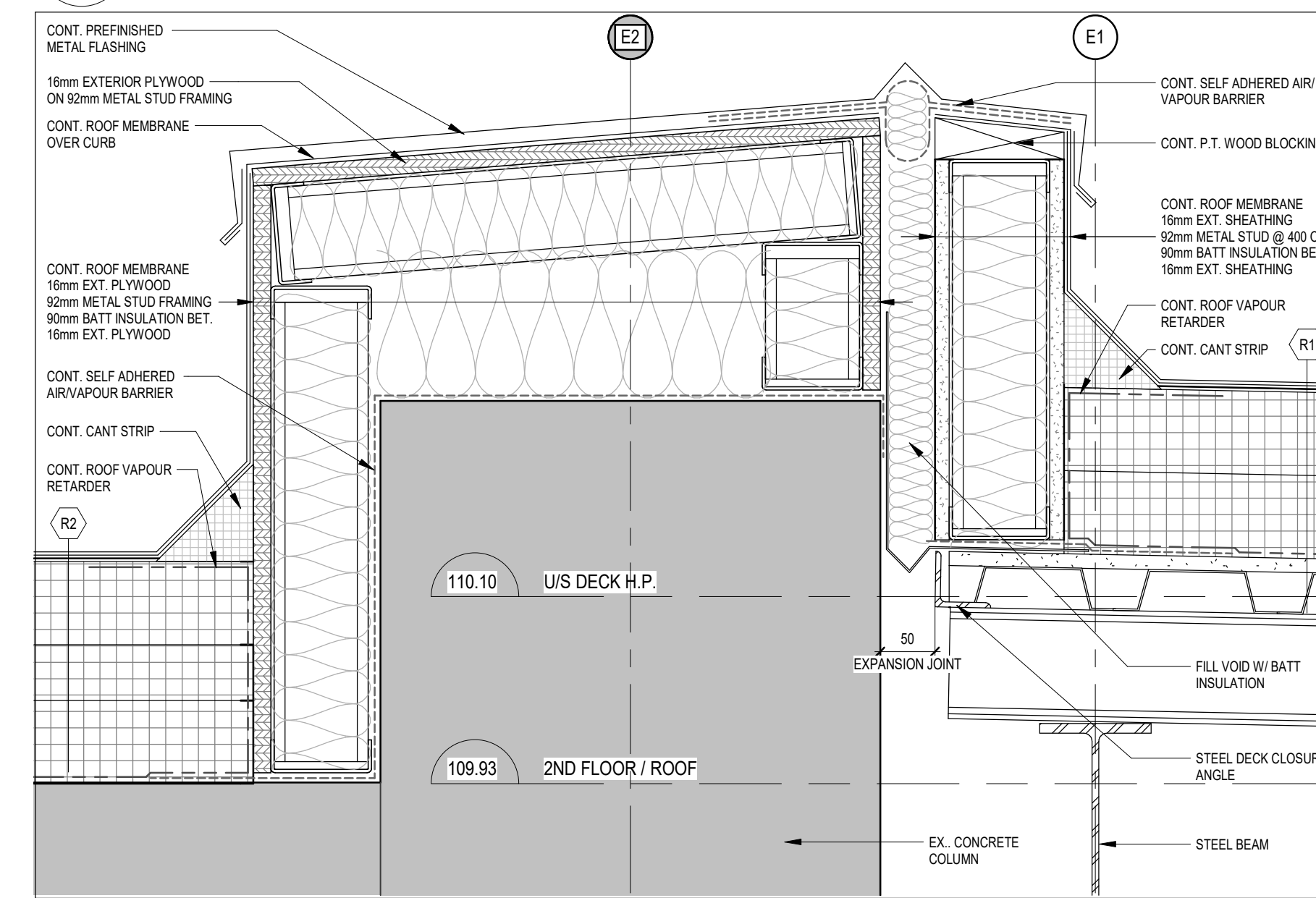
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DRAWING NO:
A605



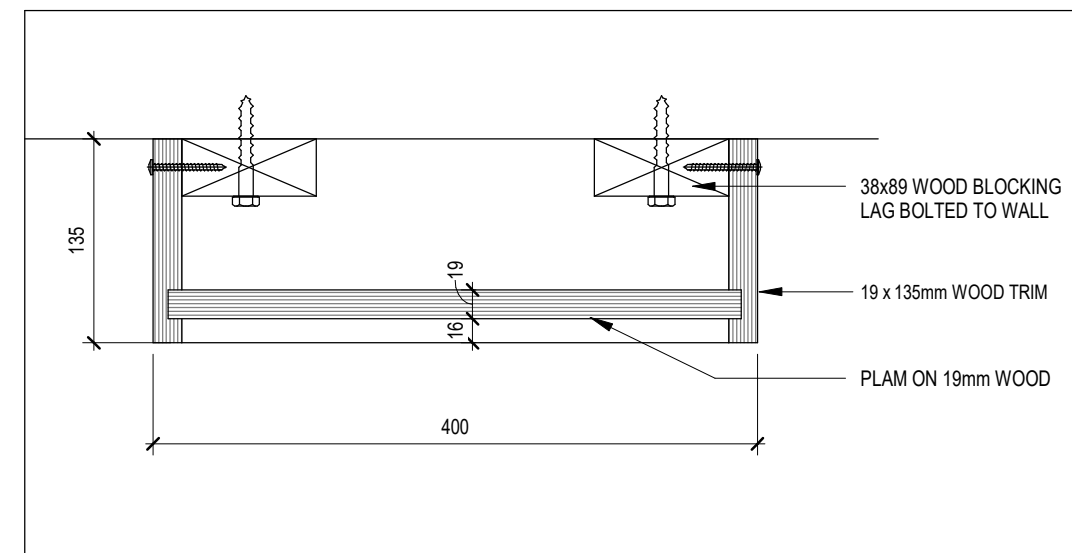
3 SECTION DETAIL
A605 1 : 5



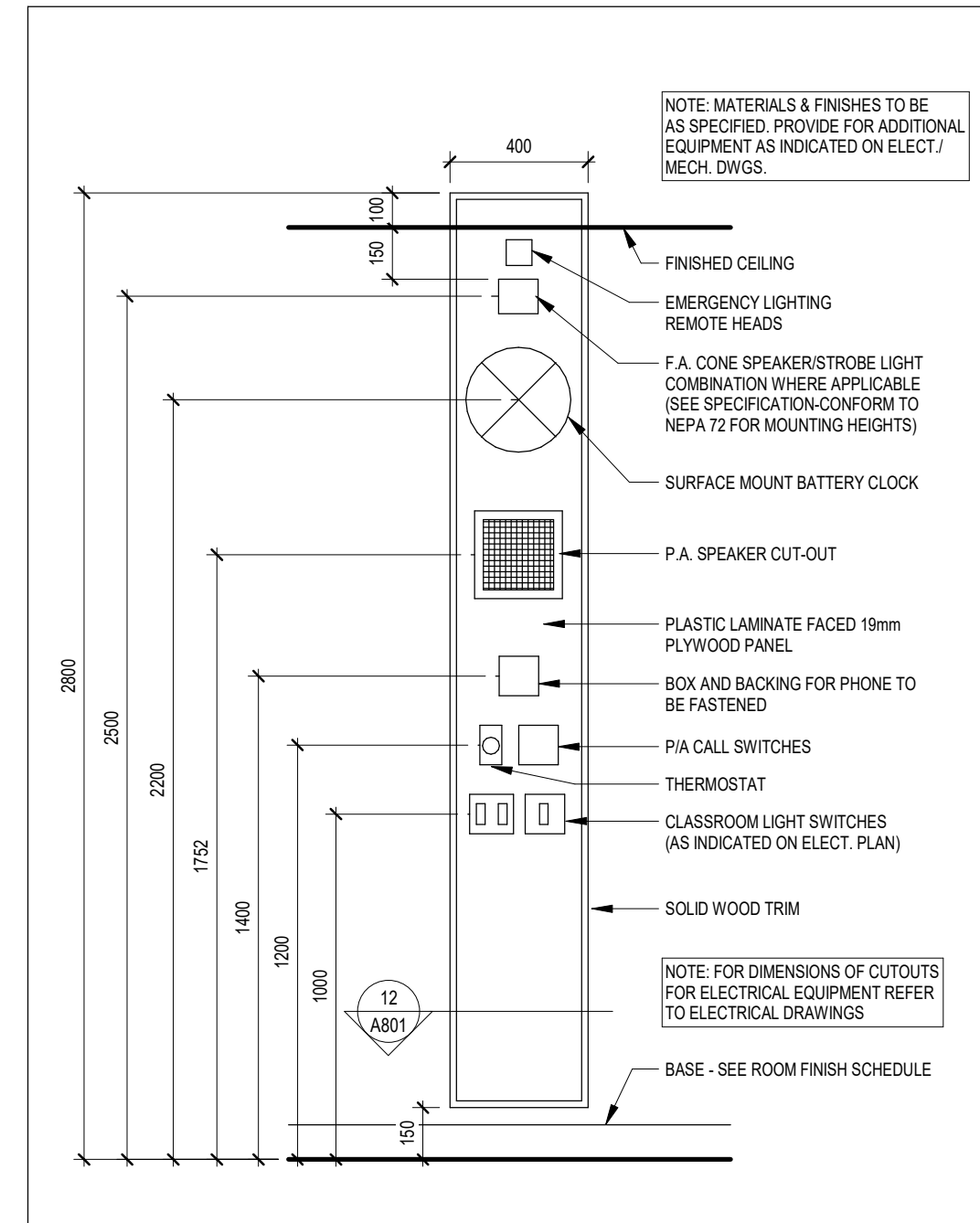
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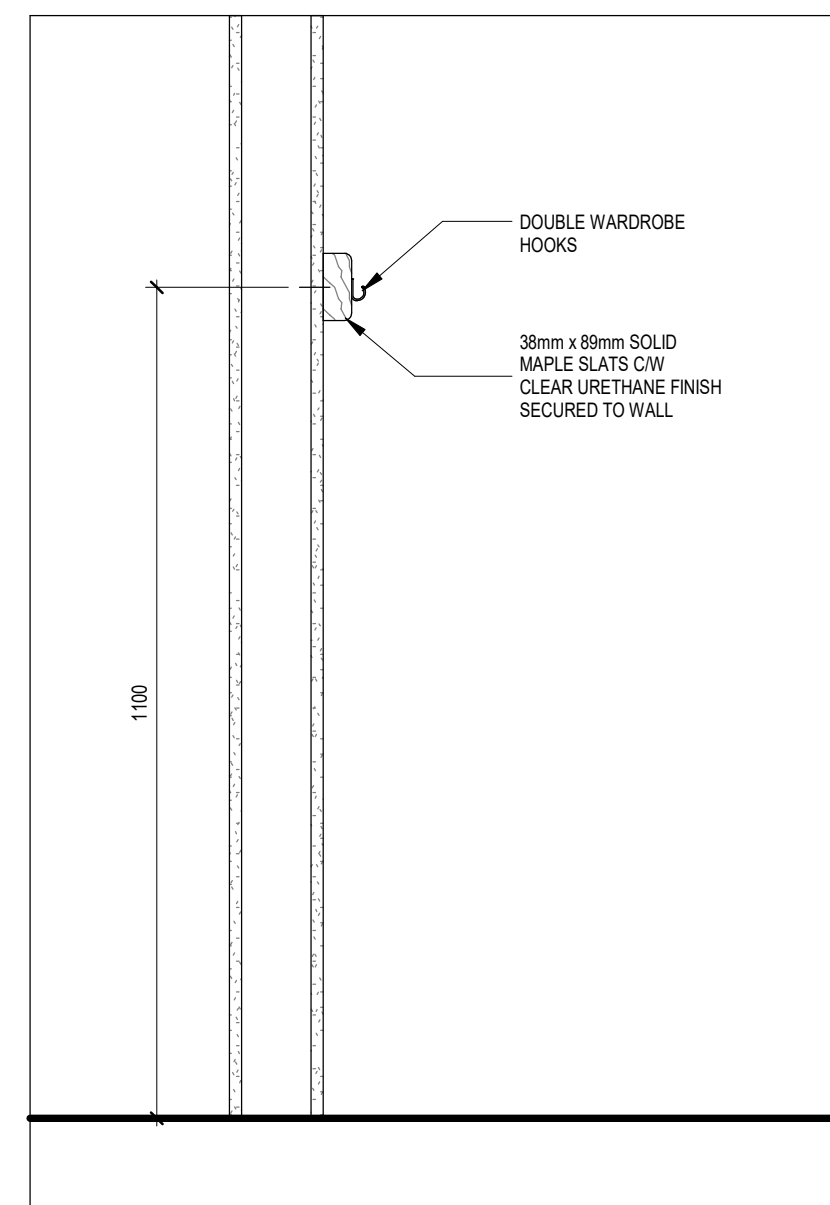
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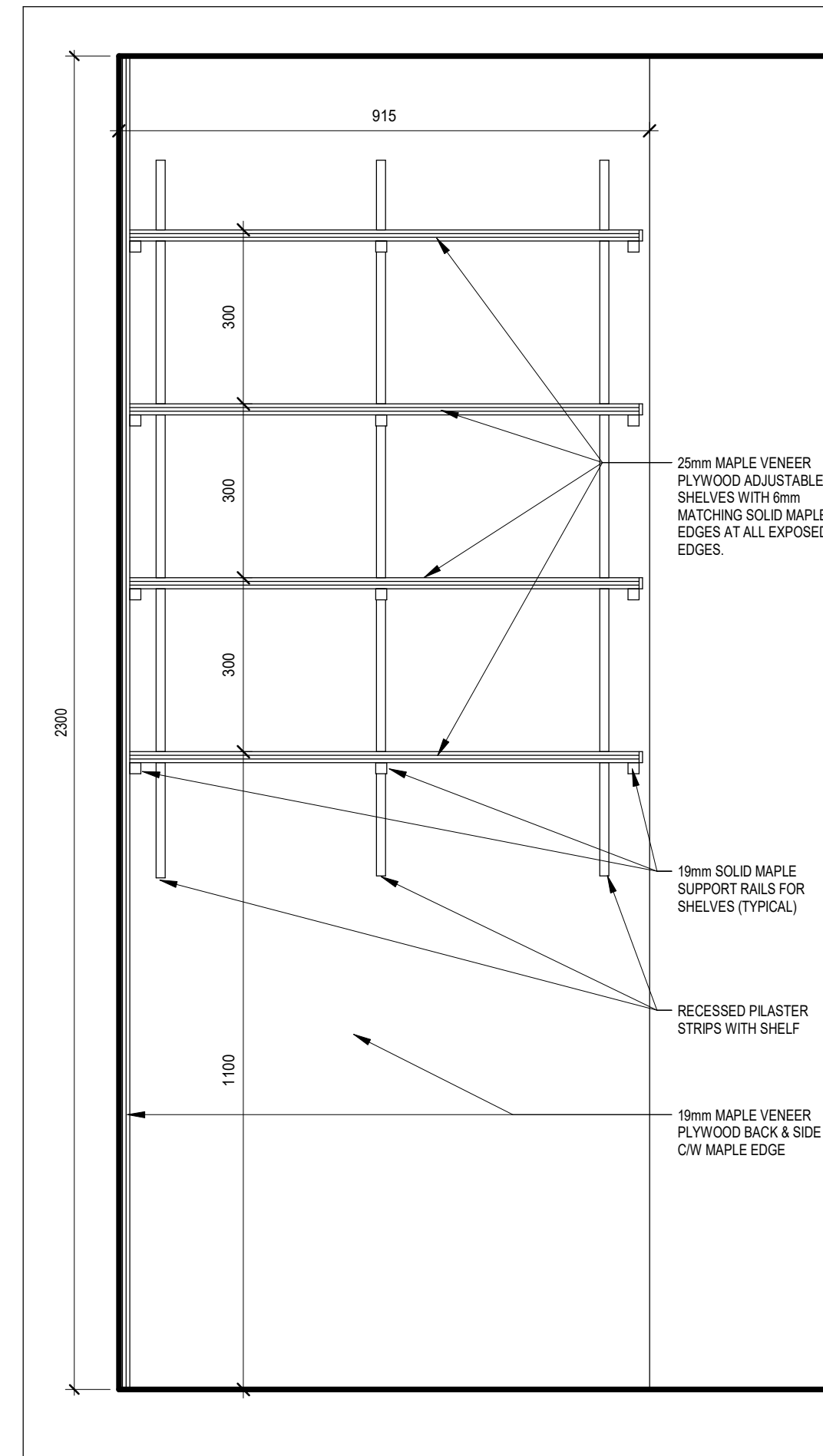
12 TYP. CONTROL PANEL PLAN
A801 1:5



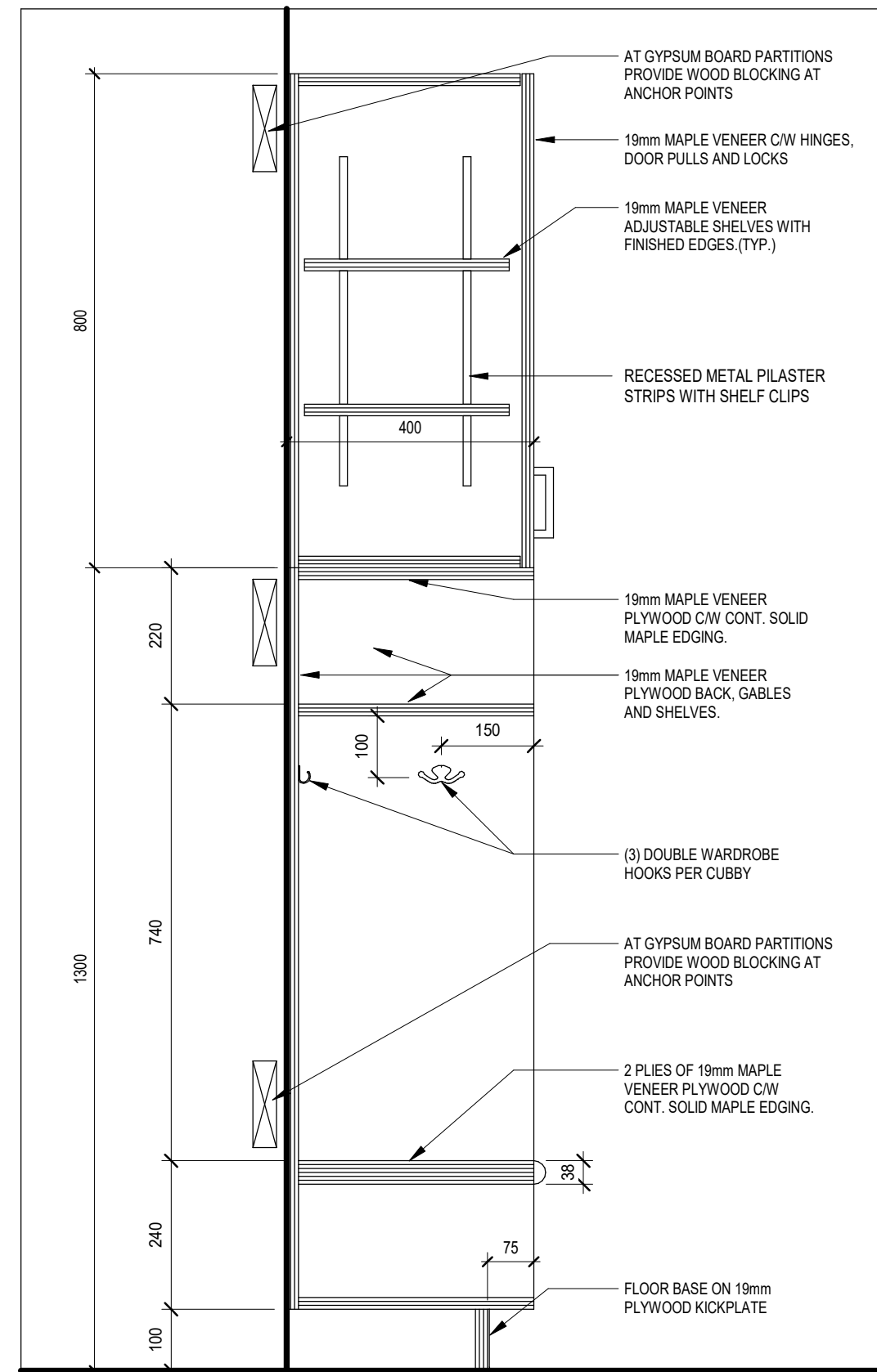
11 TYP. CONTROL PANEL ELEVATION
A801 1:20



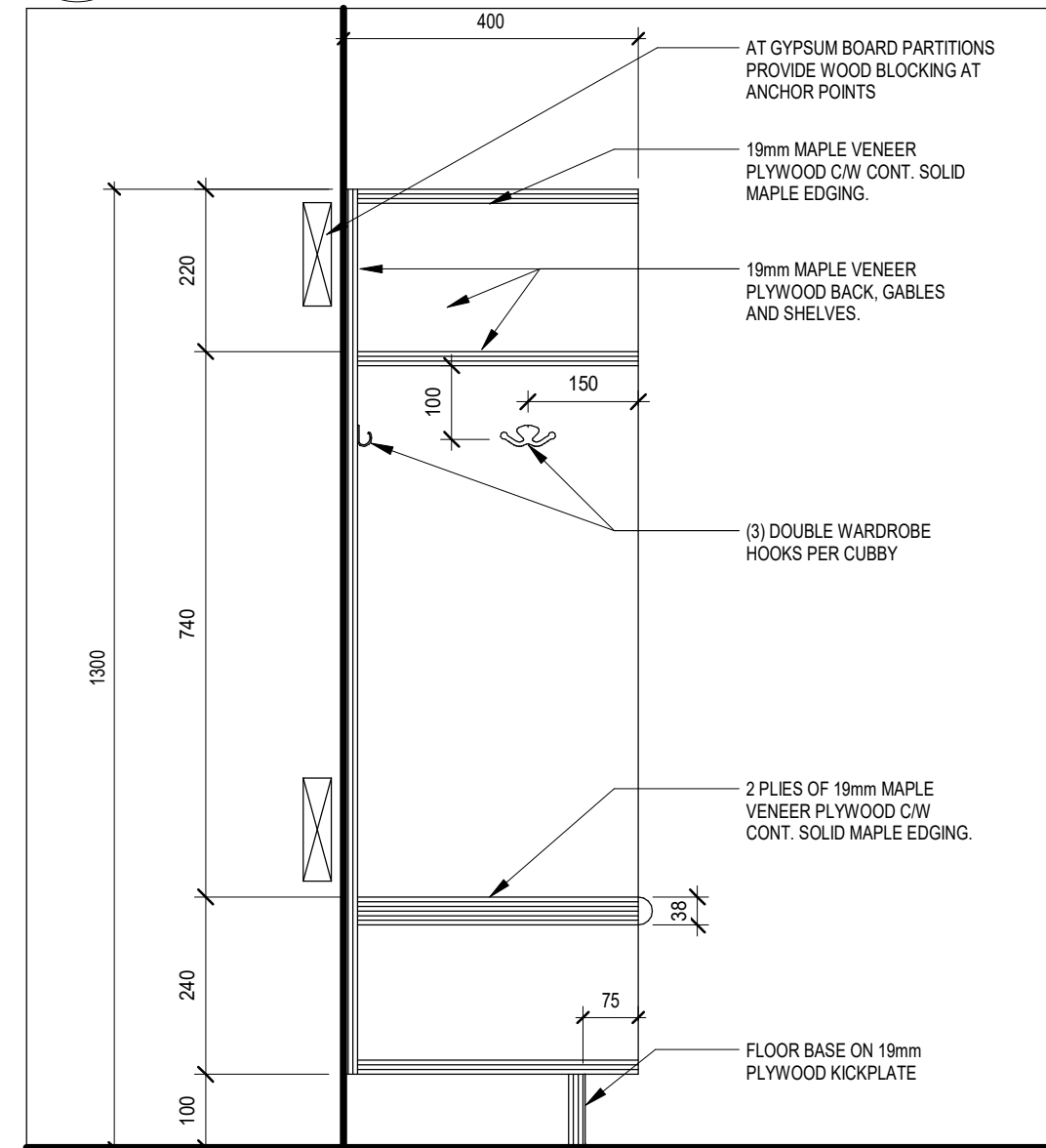
13 COAT HOOK RAIL DETAIL
A801 1:10



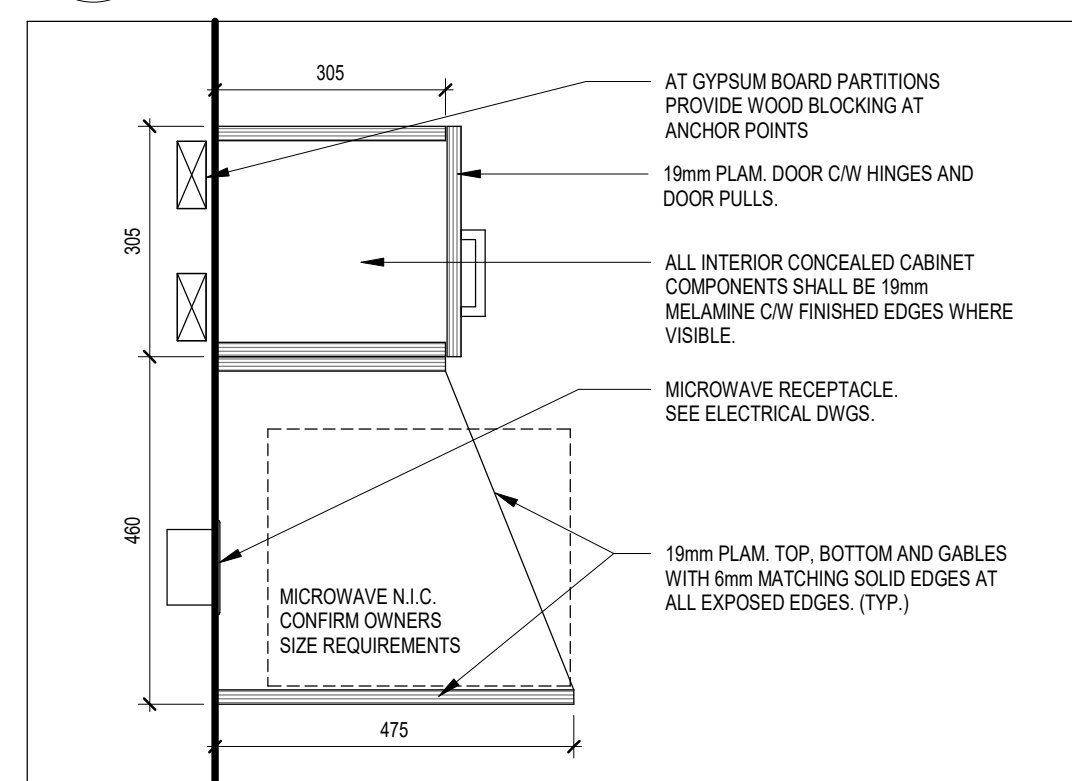
10 TYPICAL CLOSET SHELVE
A801 1:10



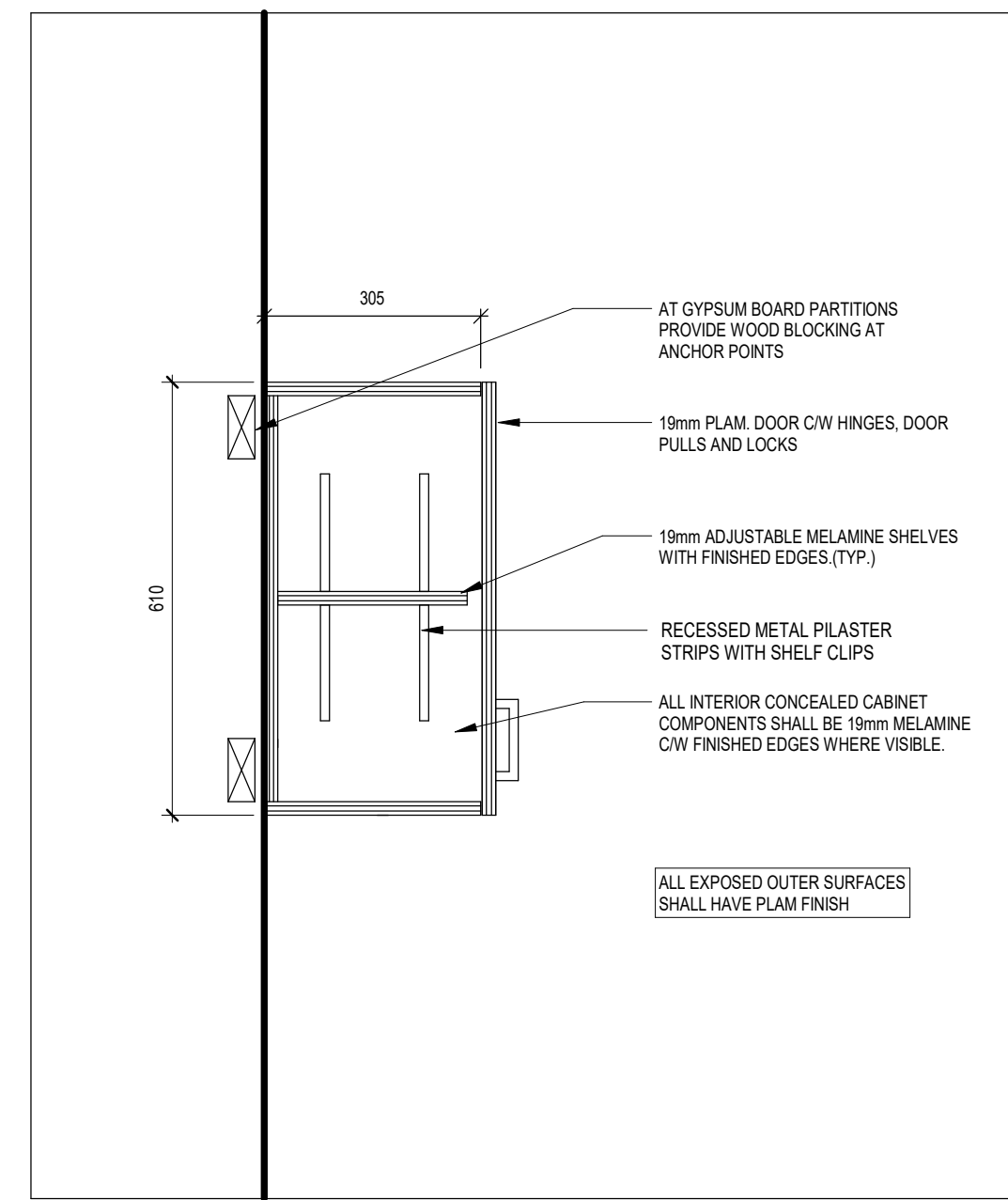
9 TYP. CUBBIES & CABINET
A801 1:10



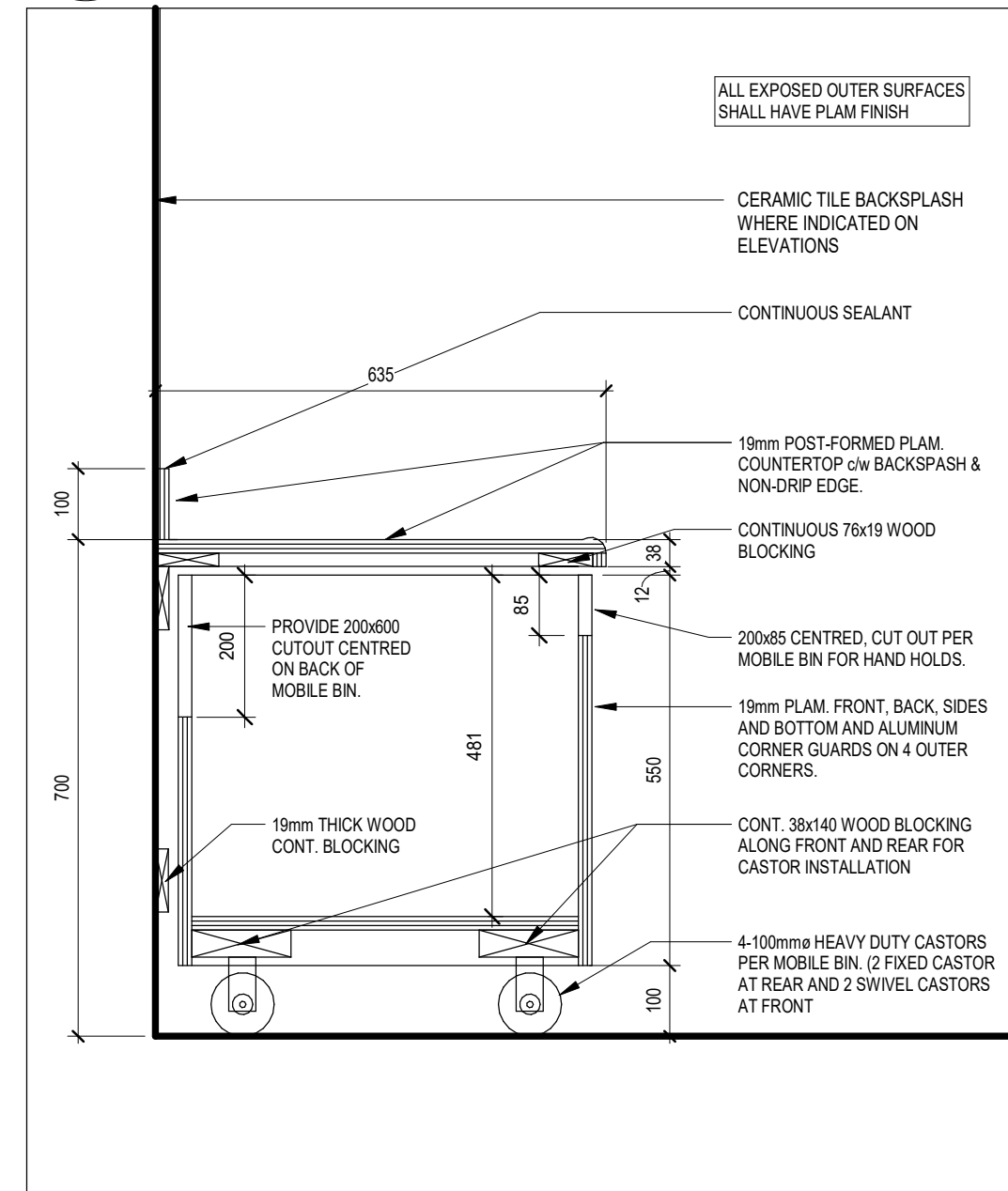
8 TYP. CUBBIES 1300H
A801 1:10



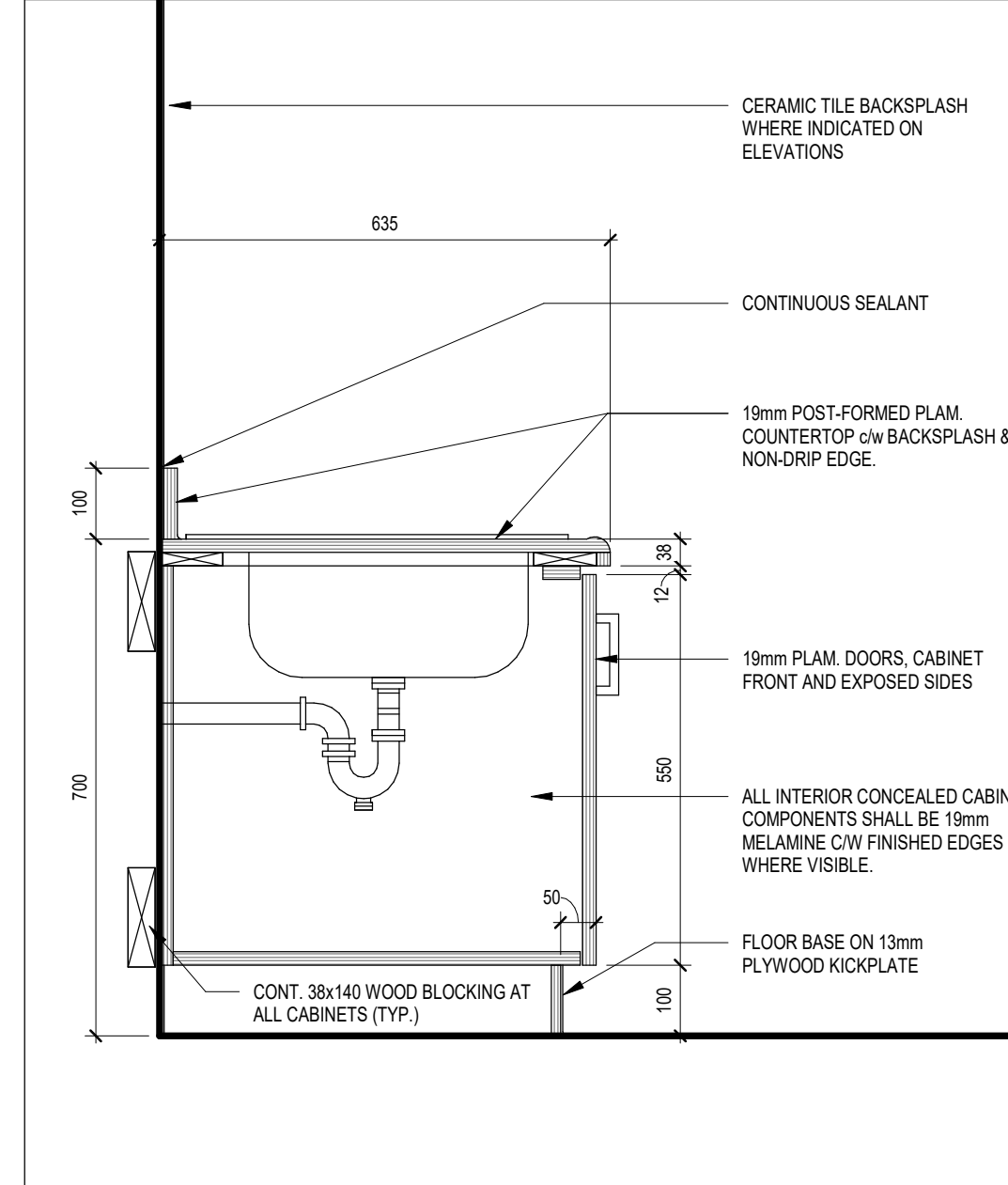
7 MICROWAVE SHELF
A801 1:10



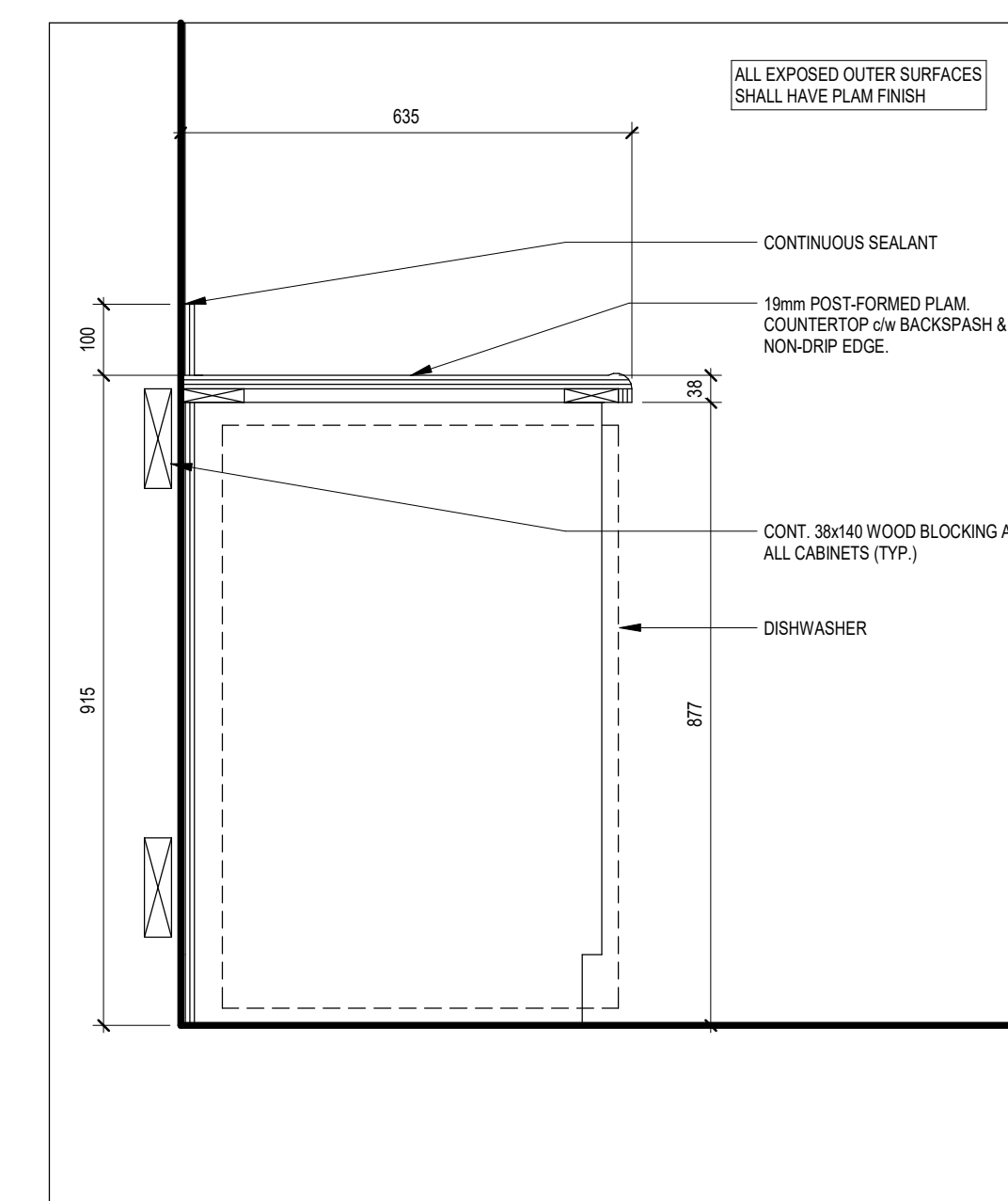
6 UPPER CABINET 610H
A801 1:10



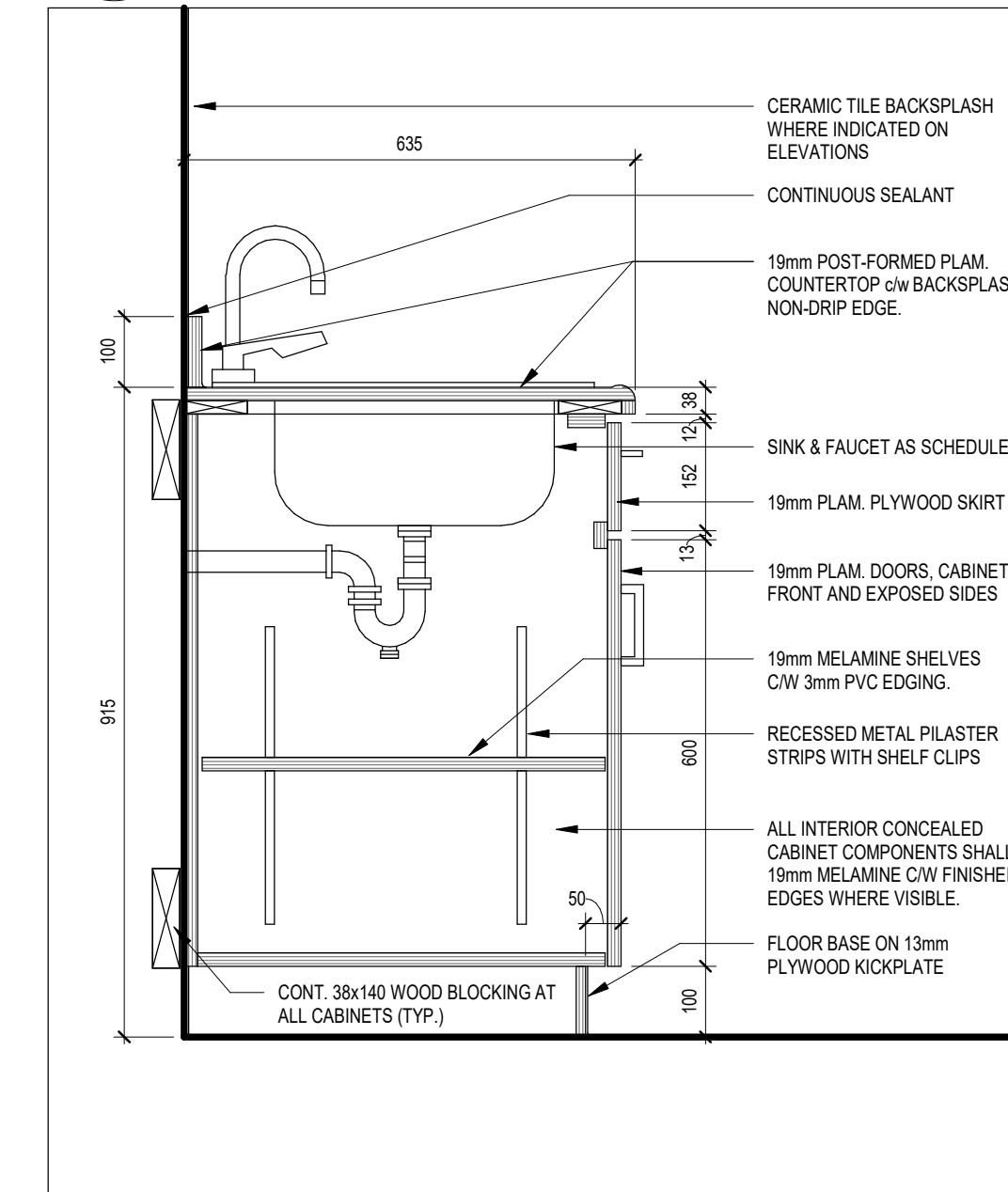
5 UNDERCOUNTER CASTER BOX
A801 1:10



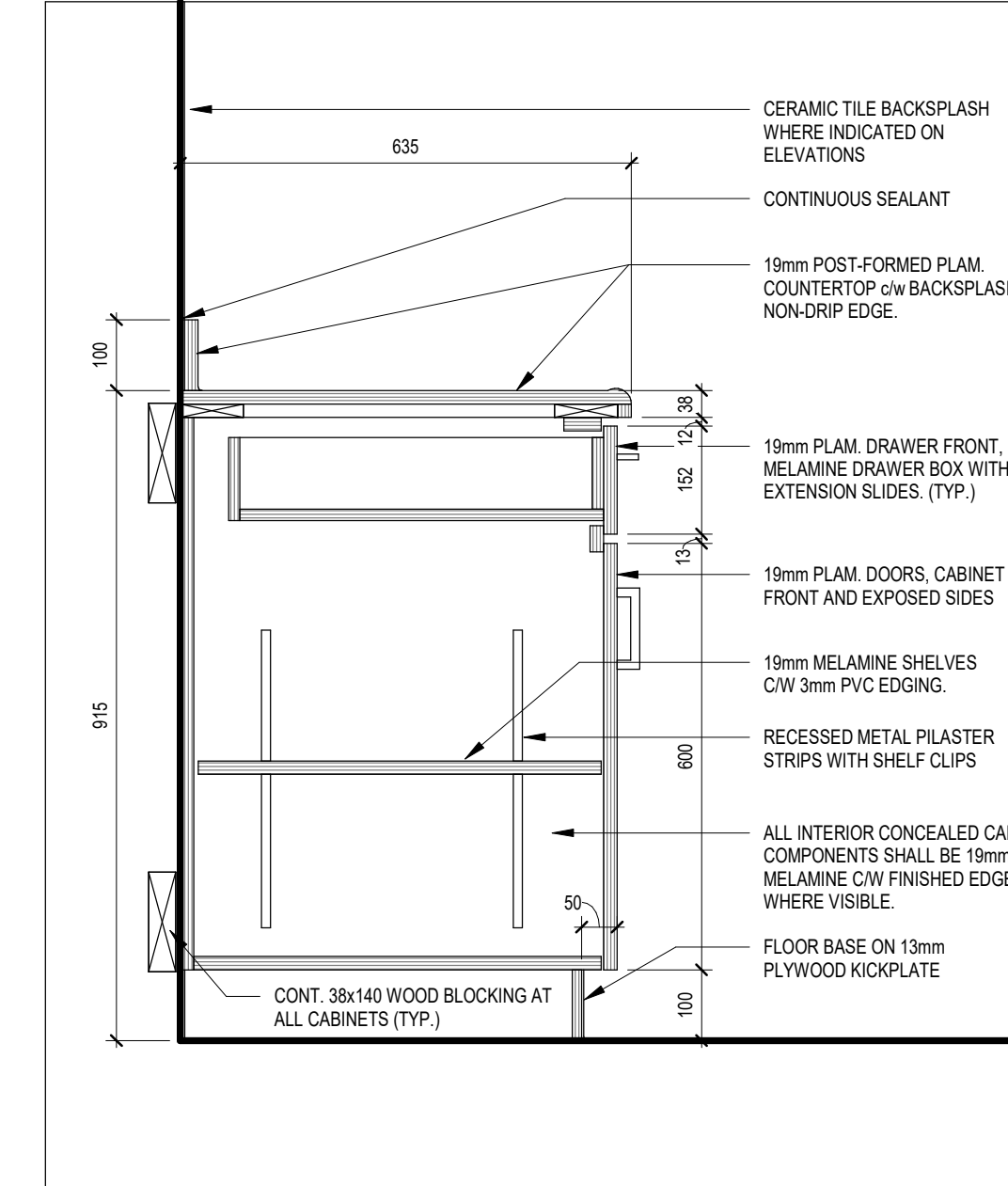
4 SINK BASE CABINET
A801 1:10



3 DISHWASHER/ MINI FRIDGE BASE
A801 1:10



2 SINK BASE CABINET
A801 1:10



1 BASE CABINET
A801 1:10

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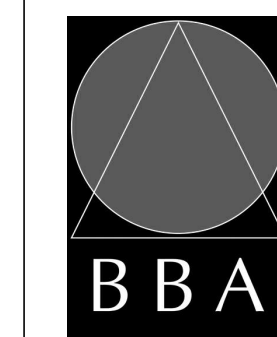
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65 Grace Street Toronto

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MILLWORK DETAILS



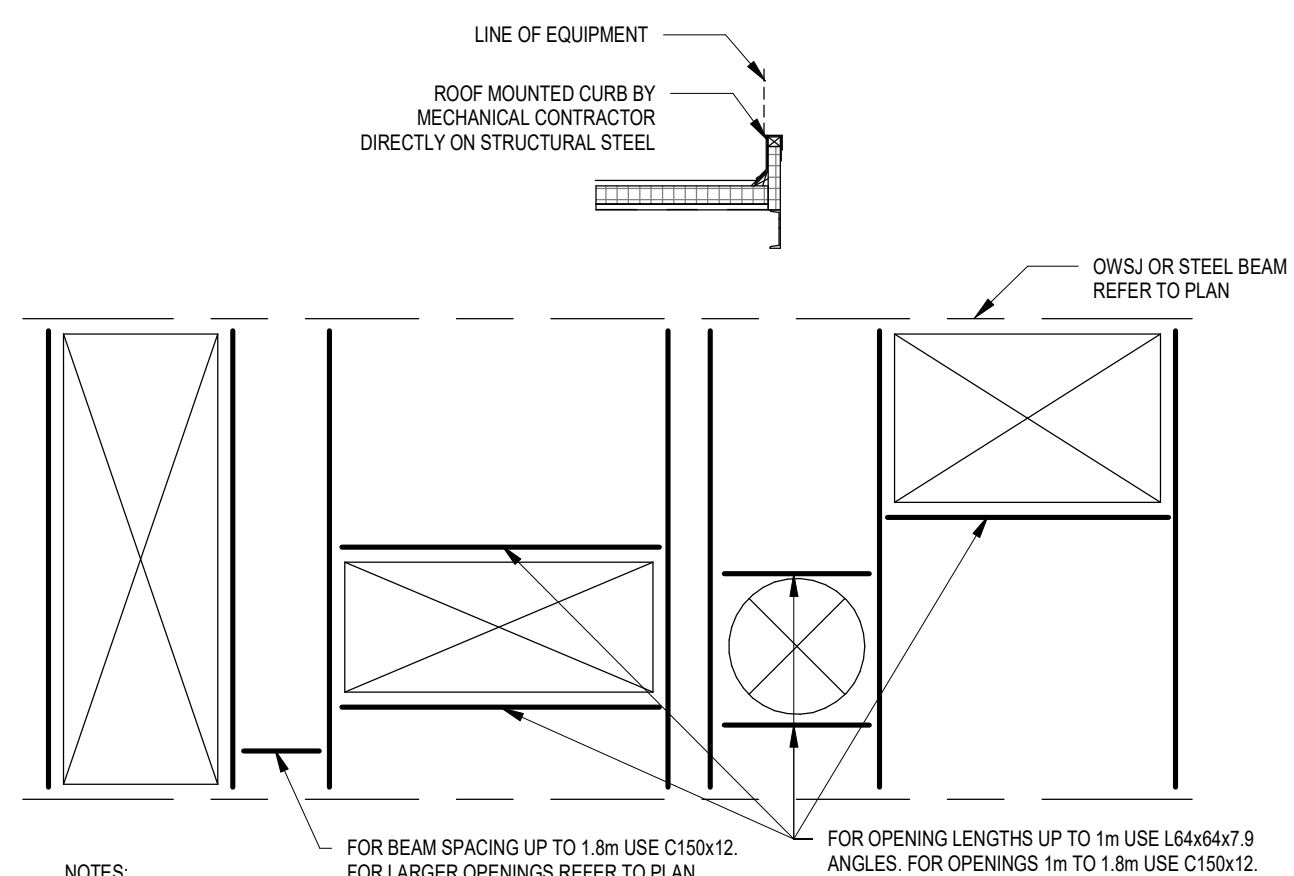
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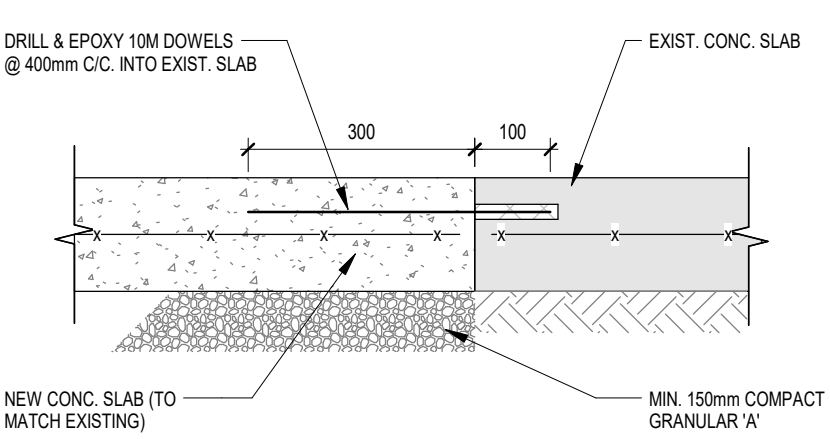
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18113
DRAWING NO:
A801



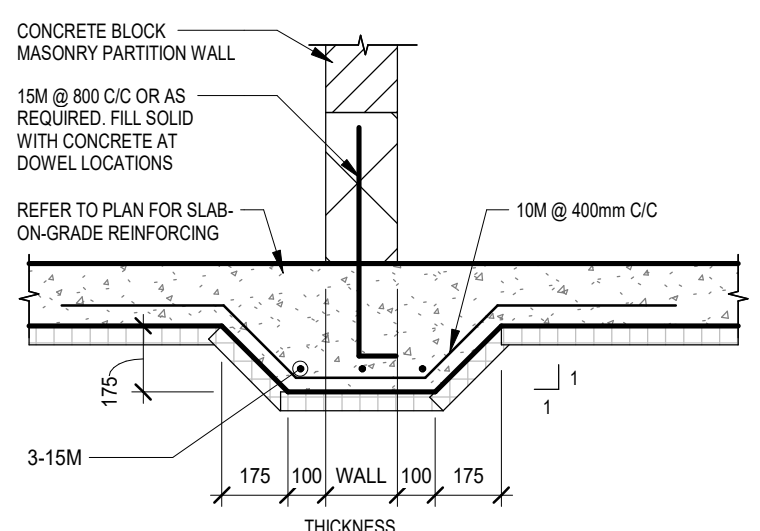
NOTES:

- TOP OF ALL TRIMMED STEEL SHALL BE AT THE UNDERSIDE OF METAL DECK, U.N.O.
- LOCATION OF ALL MECHANICAL UNITS AND OPENINGS THRU ROOF IS BASED ON INFORMATION SUPPLIED BY THE MECHANICAL DRAWINGS. THE STRUCTURAL STEEL CONTRACTOR MUST CONFIRM ALL DIMENSIONS AND SIZES WITH THE MECHANICAL CONTRACTOR. OWSJ MUST BE DESIGNED FOR ADDITIONAL LOADS FROM MECHANICAL UNITS. IF LOCATION OR DETAILS VARY FROM THOSE SHOWN, THE STRUCTURAL ENGINEER MUST BE INFORMED AND INSTRUCTIONS RECEIVED BEFORE PROCEEDING WITH THE WORK.
- THE STRUCTURAL STEEL CONTRACTOR SHALL SUBMIT SHOP AND ERECTION DRAWINGS FOR APPROVAL OF SIZE AND LOCATION OF OPENINGS FOR MECHANICAL UNITS.

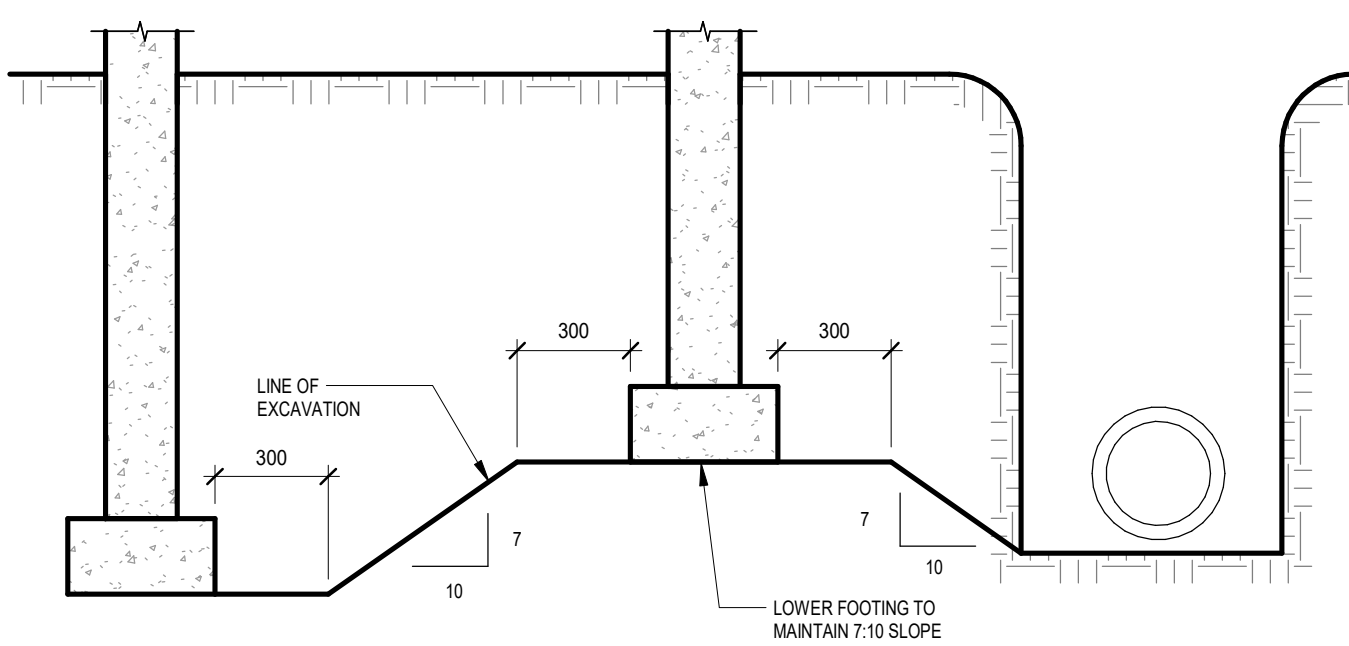
14
S102 TYP. ROOF OPENING FRAMING
1: 50



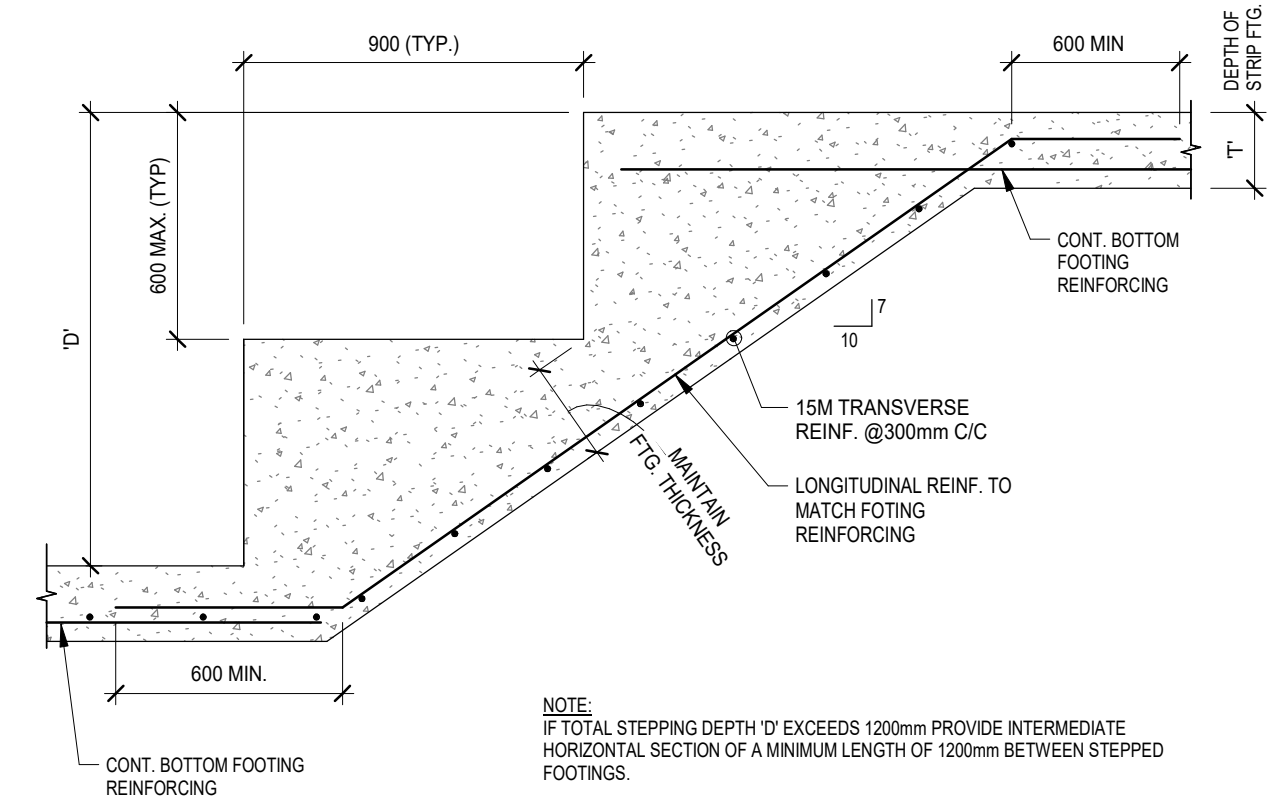
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S102 TYP. SLAB REPAIR DETAIL
1: 10



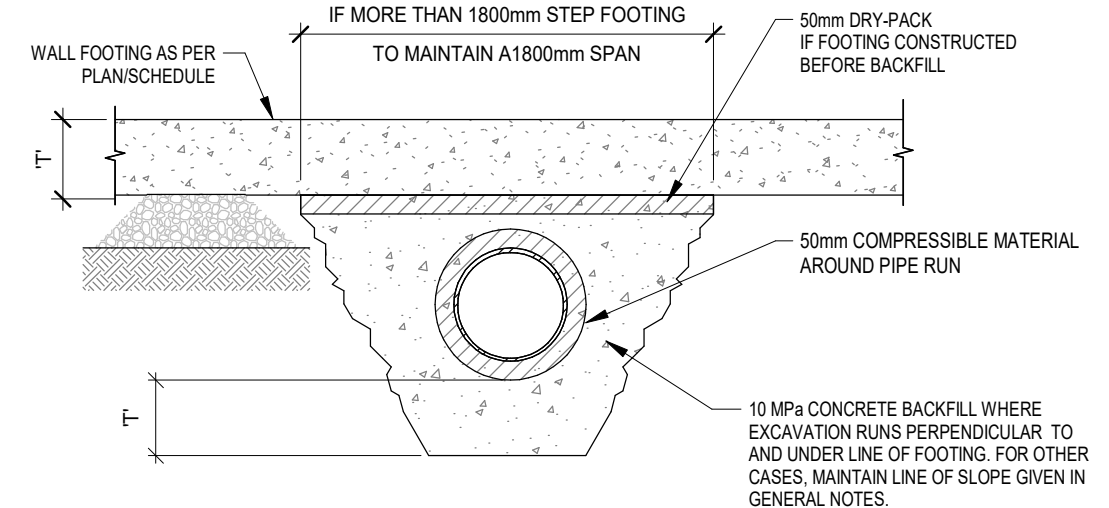
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S102 TYP. SLAB THICKENING AT NON-BEARING WALLS
1: 20



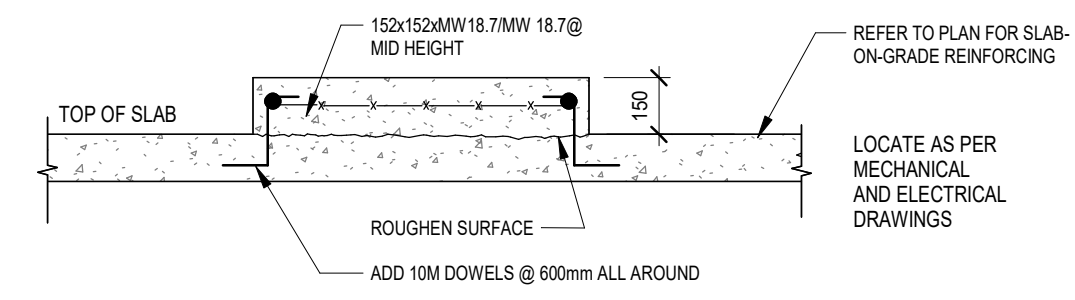
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S102 TYP. SLOPE BETWEEN ADJACENT EXCAVATIONS
1: 20



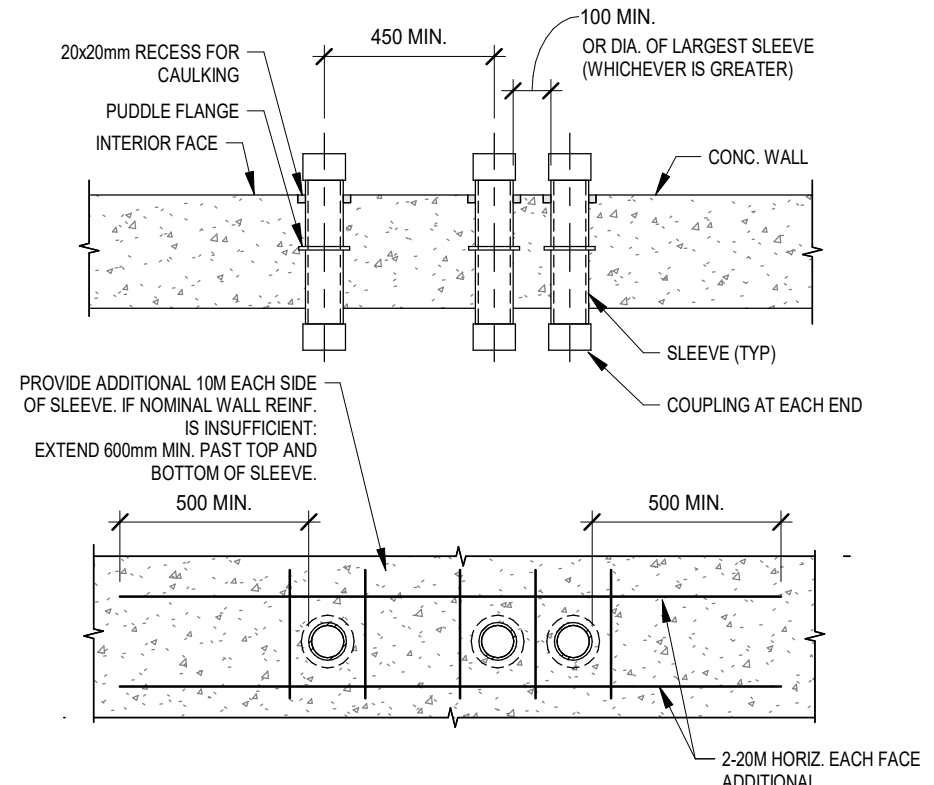
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S102 TYP. STEP DOWN FOOTING DETAIL
1: 20



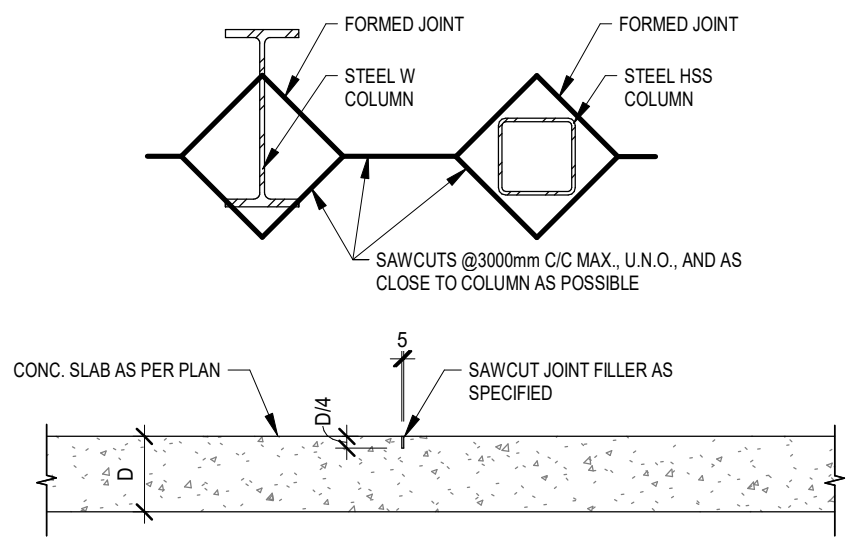
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S102 TYP. BACKFILL UNDER CONT. WALL FOOTING
1: 20



8
S102 TYP. HOUSEKEEPING PAD
1: 20



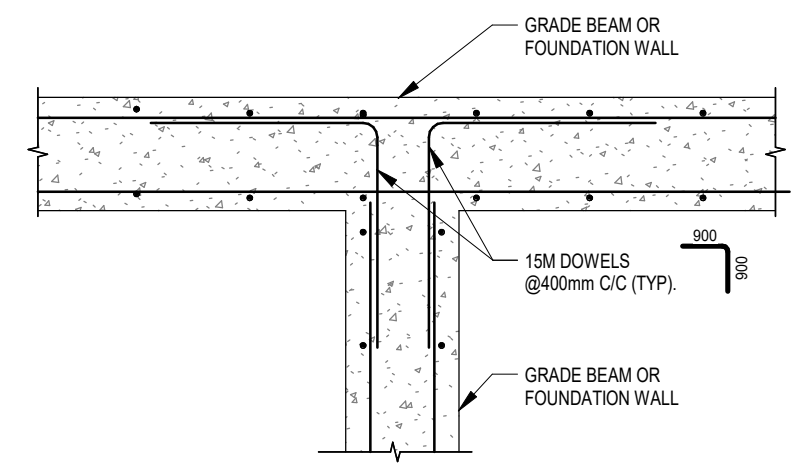
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S102 TYP. SLEEVES THROUGH CONCRETE WALLS
1: 20



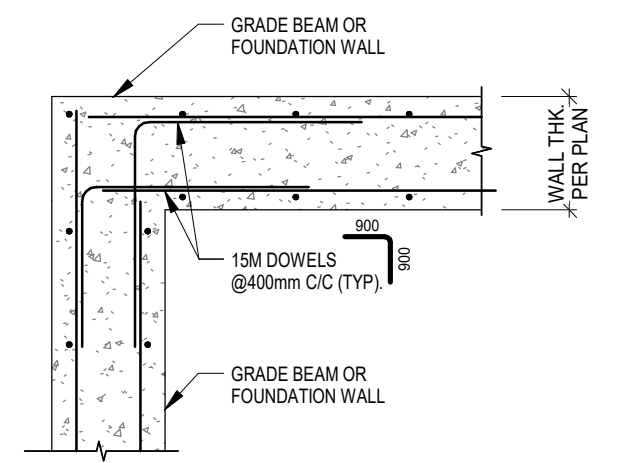
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S102 TYP. SLAB SAWCUT DETAIL
1: 20

NOTES:

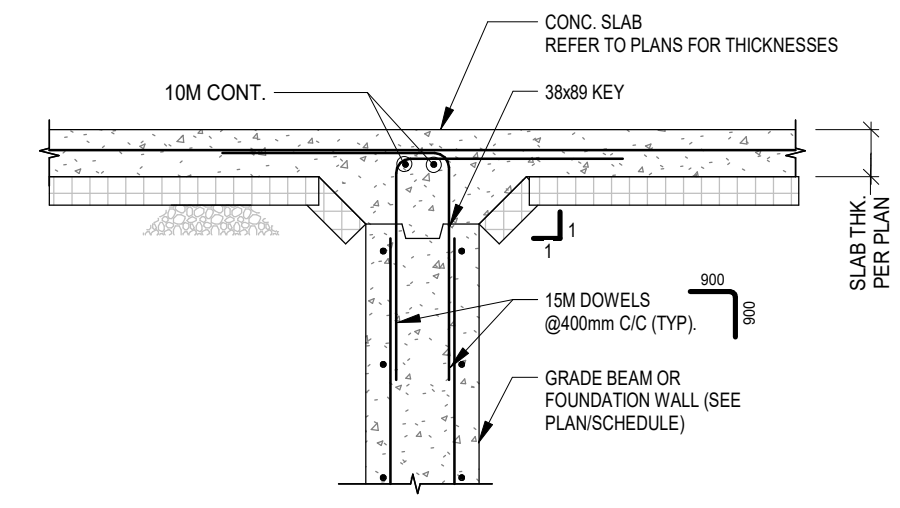
- SAWCUTTING SHALL BE CARRIED OUT WITHIN 6 TO 18 HOURS OF PLACING CONCRETE. AFTER THE SLAB IS 30 DAYS OLD REMOVE ALL DEBRIS FROM THE SAWCUTS AND FILL WITH SAWCUT FILLER AS SPECIFIED.
- SPACE SAWCUTS SHOWN ON PLANS OR AT 3000mm C/C MAX.
- SAWCUT LAYOUT TO BE REVIEWED/VERIFIED BY THE CONSULTANT DURING CONSTRUCTION.



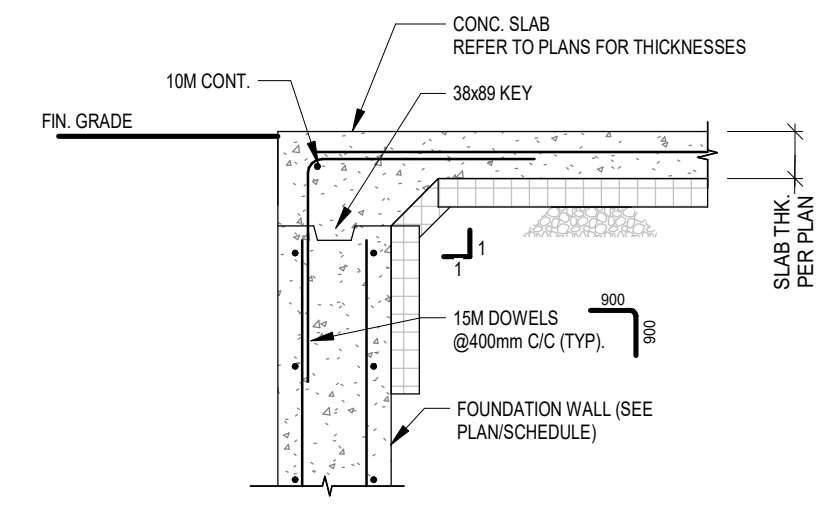
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S102 TYP. WALL REIN. AT WALL TEE
1: 20



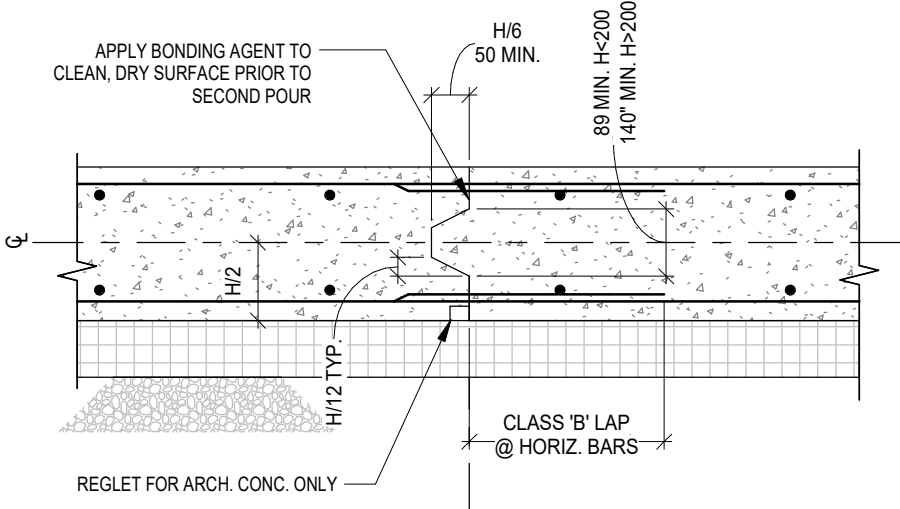
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S102 TYP. WALL REIN. AT WALL CORNERS
1: 20



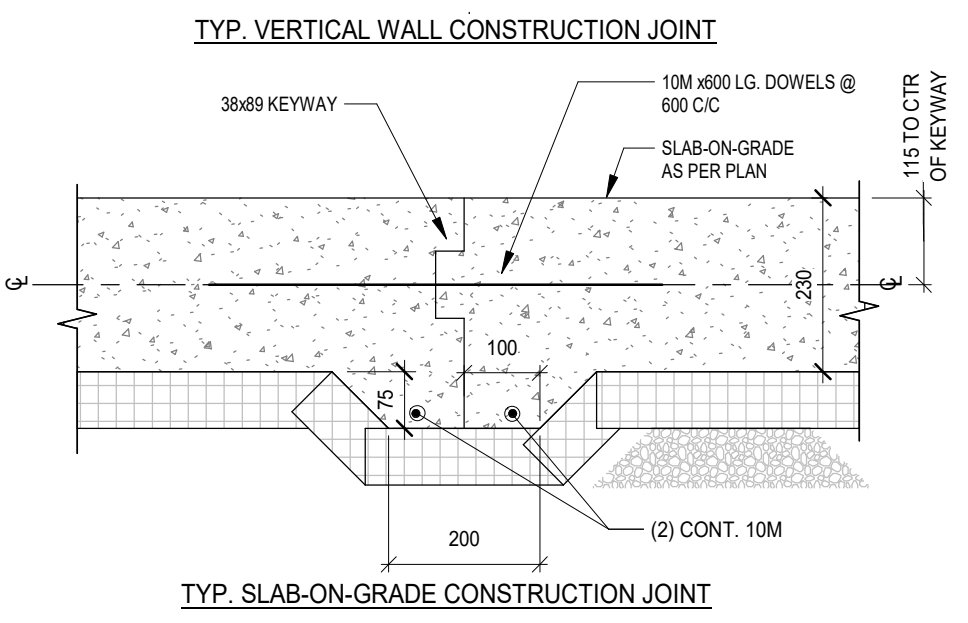
3
S102 TYP. FOUNDATION AT INTERIOR DOORS
1: 20



2
S102 TYP. FOUNDATION AT EXTERIOR DOORS
1: 20



1
S102 TYP. CONSTRUCTION JOINT DETAIL
1: 10



TYP. VERTICAL WALL CONSTRUCTION JOINT

TYP. SLAB-ON-GRADE CONSTRUCTION JOINT

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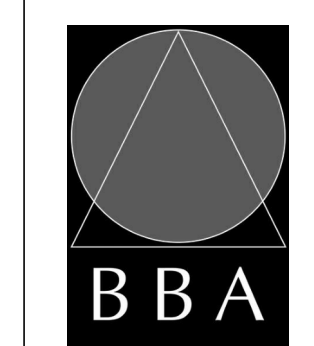
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PROJECT:
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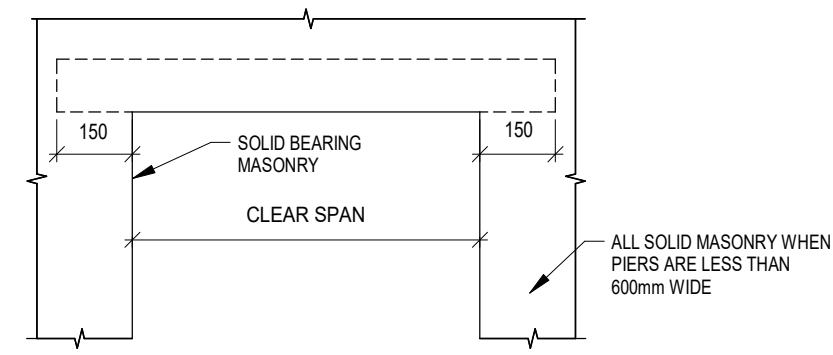
PROJECT NO.
18113

DRAWING NO.
S102

COLUMN SCHEDULE			
MARK	C1	C2	C3
US OF DECK @ H.P.			
US OF DECK @ CANOPY			
GROUND FLOOR			
BASE PLATE	400x194x30 C1W (1) - 19mmØ x 525mm ANCHOR BOLTS CW 25mm HOOKS	400x194x30 C1W (1) - 19mmØ x 525mm ANCHOR BOLTS CW 25mm HOOKS	425mmØx10 C1W (2) - 19mmØ x 525mm ANCHOR BOLTS CW 25mm HOOKS

STEEL LINTELS FOR NON-LOAD BEARING MASONRY WALLS (Lx)					
WALL THICKNESS	CLEAR SPAN				DETAIL
	UP TO 1200	1200 TO 1800	1800 TO 2400	2400 TO 3000	
140	2-L64x64x4	2-L89x64x4 LLV	2-L102x64x7 9 LLV	-	64 LEGS HORIZ
190	2-L89x76x4 LLV	2-L89x89x7 9	2-L127x89x7 9 LLV	2-L152x89x10 LLV	89 LEGS HORIZ
240	2-L89x76x4 LLV	2-L102x89x7 9 LLV	2-L152x89x10 LLV	2-L152x102x13 LLV	89 / 102 LEGS HORIZ

- NOTES:
- CONNECT ANGLES AT 600 c/c BY WELDING OR BOLTING FOR ANGLES WITH A TOTAL LENGTH OF 1800 OR MORE. USE 19mm BOLTS OR #60 LONG WELDS.
 - USE SCHEDULES FOR LINTELS OVER MECHANICAL/ELECTRICAL OPENINGS IN ALL MASONRY WALLS. U.N.O. ON PLAN. REFER TO MECHANICAL/ELECTRICAL DRAWINGS FOR LOCATIONS.
 - OPENINGS TO BE LOCATED MIN. 3 COURSES BELOW UNDERSIDE OF DECK/SLAB UNLESS APPROVED BY THE CONSULTANT.



LINTEL SCHEDULE	
MARK	SIZE
L1	(2)-L127x89x6.5 LLV

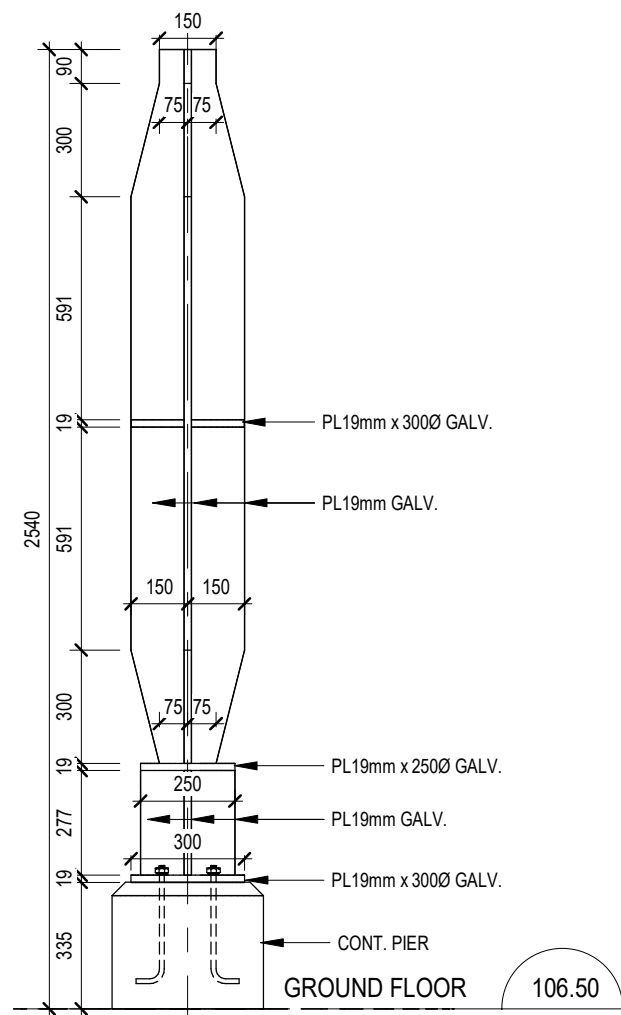
CONCRETE WALL SCHEDULE			
MARK	WIDTH	REINFORCING	NOTES
CW1	350	19M @ 300 VERT. + HORIZ. E.F.	(2) - 15M TOP & BOT.
CW2	200	10M @ 400 VERT. + HORIZ.	(2) - 15M TOP & BOT.

WALL FOOTING SCHEDULE				
MARK	WIDTH	DEPTH	REINFORCING	NOTES
WF1	600	300	(3) - 15M CONT. BOT.	
WF2	400	300	(2) - 10M CONT. BOT.	

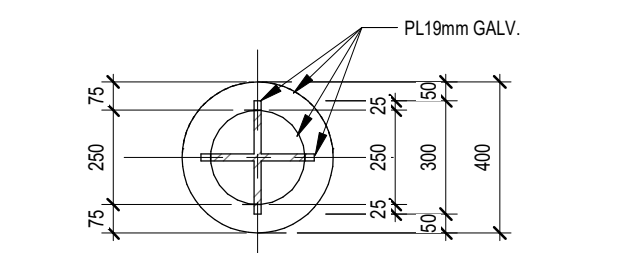
CONCRETE PIER SCHEDULE				
MARK	SIZE	VERT. REINF.	TIES / VERT. REINF.	NOTES
P1	500x400	8-20M	10M @ 300 C/C AND 3-10M TIES AT TOP AT 75 C/C	DETAIL 1
P2	450x8	8-20M	19M @ 300 C/C AND 3-10M TIES AT TOP AT 75 C/C	DETAIL 2
P3	500x1250	20M @ 300 C/C E.W.	19M @ 250 C/C E.F.	10M U-BARS TOP & BOT @ 300 C/C
P4	500x1600	20M @ 300 C/C E.W.	19M @ 250 C/C E.F.	10M U-BARS TOP & BOT @ 300 C/C
P5	500x2500	20M @ 300 C/C E.W.	19M @ 250 C/C E.F.	10M U-BARS TOP & BOT @ 300 C/C

SPREAD FOOTING SCHEDULE			
MARK	SIZE	THICKNESS	REINFORCING
F1	1530x1530	350	5-15M TOP & BOT E.W.
F1A	1200x1200	350	4-15M TOP & BOT E.W.
F2	1000x1000	300	4-15M E.W.
F3	1000x1200	750	SEE SECTION
F4	1200x1350	750	SEE SECTION
F5	1200x2500	750	SEE SECTION

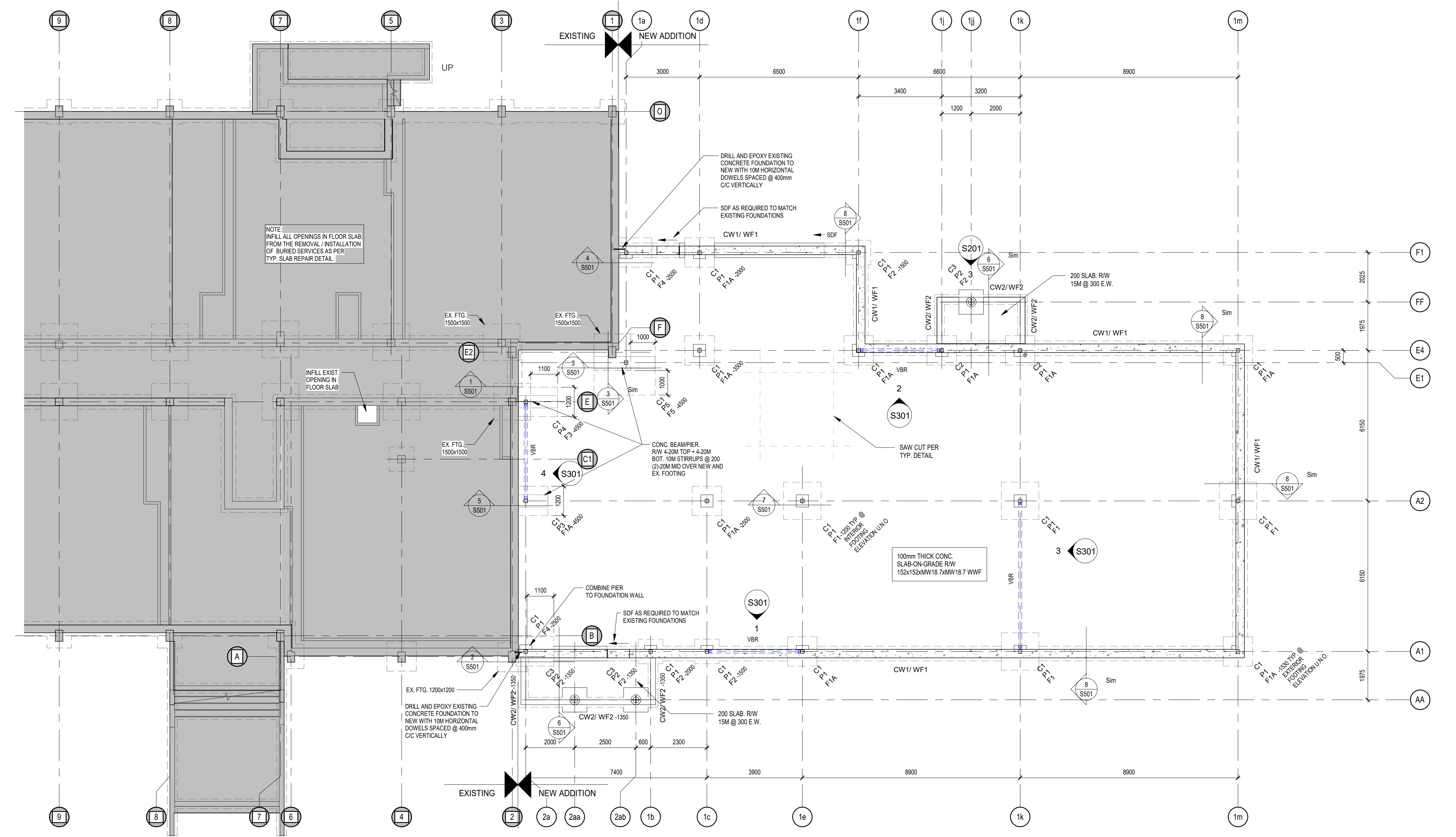
- FOUNDATION PLAN NOTES:
- FINISHED GROUND FLOOR IS AT GEODETIC ELEVATION 106.530M EXCEPT AS CROSSED AND NOTED. ELEVATIONS FOR AREAS CROSSED AND NOTED ARE TO BE READ FROM FINISHED FLOOR ELEVATION 106.500M UNLESS OTHERWISE NOTED.
 - ALL EXTERIOR & INTERIOR FOOTINGS FOR HEATED STRUCTURES SHALL BE FOUNDED AT MINIMUM DEPTH EL -1200 FROM FINISHED GRADE. TYPICAL ALL FOOTINGS UNLESS NOTED OTHERWISE.
 - ALL FOOTINGS TO BE CENTERED UNDER PIERS, WALLS AND/OR COLUMNS EXCEPT AS NOTED ON PLAN.
 - SEE ARCHITECTURAL DRAWINGS FOR SLOPES AND DRAINS. MAINTAIN SLAB THICKNESS SHOWN.
 - ALL FOOTINGS SHALL EXTEND TO OR BELOW SOUND BEARING STRATUM AS APPROVED BY GEOTECHNICAL ENGINEER. REFER TO PLAN FOR USLS AND BEARING CAPACITIES. GEOTECHNICAL ENGINEER SHALL APPROVE SHALL BEARING CONDITIONS ON SITE AND CONTRACTOR MUST REPORT ANY DOUBTFUL BEARING CONDITIONS.
 - VERIFY EXISTING FOOTING ELEVATIONS AND SITE SERVICES PRIOR TO PROCEEDING WITH WORK. NOTIFY CONSULTANTS OF ANY DISCREPANCIES. REFER TO MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - LOWER FOOTINGS TO ACCOMMODATE NEW AND/OR EXISTING FOOTINGS, MECHANICAL, ELECTRICAL OR CIVIL SERVICES. SEE MECHANICAL ELECTRICAL AND CIVIL DRAWINGS FOR ELEVATIONS OF SAME. FOOTINGS ARE NOT TO BE UNDERMINED BY EXCAVATION FOR SERVICES FITS, ETC.
 - PROTECT ALL EXISTING SUB GRADE SERVICES DURING INSTALLATION OF FOUNDATIONS.
 - REFER TO GENERAL NOTES AND TYPICAL DETAILS ON DRAWINGS FOR ADDITIONAL INFORMATION. ALL FOOTINGS NEARBY EXISTING SHALL BE FOUNDED AT THE SAME US ELEVATION OF EXISTING FOOTINGS AND NOT TO UNDERMINE U.N.O. AND UNDERPINNED.
 - PROVIDE DOVELS IN THE FOOTING TO MATCH ALL VERTICAL WALL REINFORCEMENT.
 - SDF DENOTES STEP DOWN FOOTING. REFER TO TYPICAL DETAILS.
 - REMOVE ALL TOPSOIL, LOOSE AND WET SOILS AND ORGANICS TO SUITABLE NATIVE SUBGRADE MATERIAL AS APPROVED BY THE GEOTECHNICAL ENGINEER. THE EXISTING SUB-GRADE MUST BE PROOF-ROLLED AND COMPACTED PRIOR TO BACKFILLING. THE EXISTING FILL BELOW THE BUILDING FOOTPRINT SHALL BE REMOVED AND DISPOSED FROM SITE AND REPLACED WITH NEW ENGINEERED FILL. NOTE EXISTING FILL DEEMED UNSUITABLE IS APPROXIMATELY 1.5m BELOW FFE AND SHALL BE BUILT UP WITH ENGINEERED FILL.



3 C3 - COLUMN ELEV. S201 1:20



2 C3 - COLUMN PLAN S201 1:20



1 FOUNDATION PLAN S201 1:100

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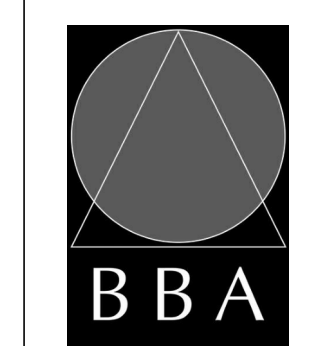
NO.	ISSUES	DATE	BY
1	FOR PRICING	MAR 023	BBA
2	ISSUED FOR BUILDING PERMIT	MAY 30/24	BBA
3	ISSUED FOR TENDER	SEPT 11/24	BBA

NO.	REVISIONS	DATE	BY
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
FOUNDATION PLAN AND SCHEDULES



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FILE:	Drawings - Current - 18113.RVT

PROJECT NO. **18113** DRAWING NO. **S201**

HIGH ROOF FRAMING NOTES:

- UNDERSEE OF ROOF DECK AT HIGH LINE OF HIGH ROOF IS AT +3600 EXCEPT AS CROSSED AND NOTED.
- ELEVATIONS NOTED ON PLAN AS xxx ARE TO BE READ FROM ELEVATION +3600
- ELEVATIONS TO TOP OF STEEL ARE, WHERE JOISTS ARE INSTALLED, BASED ON AN ASSUMED JOIST SHOE DEPTH OF 100mm.
- REFER TO ARCHITECTURAL AND MECHANICAL DRAWINGS FOR SIZE AND LOCATION OF ALL MECHANICAL UNITS AND OPENINGS IN DECK NOT INDICATED ON STRUCTURAL DRAWINGS. ALL OPENINGS IN STEEL DECK 150mm TO 450mm SHALL BE REINFORCED BY STEEL DECK CONTRACTOR. LARGER OPENINGS TO BE TRIMMED IN ACCORDANCE WITH TYPICAL DETAILS.
- PROVIDE LATERAL SUPPORT OF NON-LOAD BEARING BLOCK PARTITIONS AS PER TYPICAL DETAILS.
- REFER TO DRAWINGS S100 SERIES FOR GENERAL NOTES AND TYPICAL DETAILS.
- EQUALLY SPACE BEAMS AND JOISTS BETWEEN SUPPORTS UNO.
- T.J. DENOTES TIE JOIST. FULL BOTTOM CHORD SHALL BE EXTENDED AND FRAMED INTO THE COLUMN.
- PROVIDE NECESSARY TEMPORARY SHORING OF BUILDING STRUCTURE AND WALLS WHEN INSTALLING UNITS IN BLOCK WALLS.

DESIGN LOADS:

SNOW LOAD:	1.29 kPa ASL
SUPERIMPOSED DEAD LOAD:	
ROOFING	0.2 kPa
STEEL DECK	0.2 kPa
MEC.	0.9 kPa

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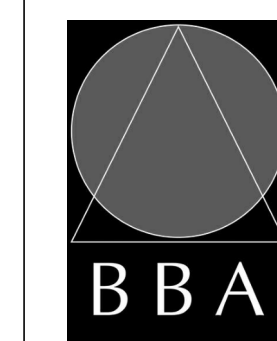
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2	ISSUED FOR BUILDING PERMIT	MAY 30/24	BBA
3	ISSUED FOR TENDER	SEPT 11/24	BBA

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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
ROOF FRAMING PLAN



BARRY BRYAN ASSOCIATES

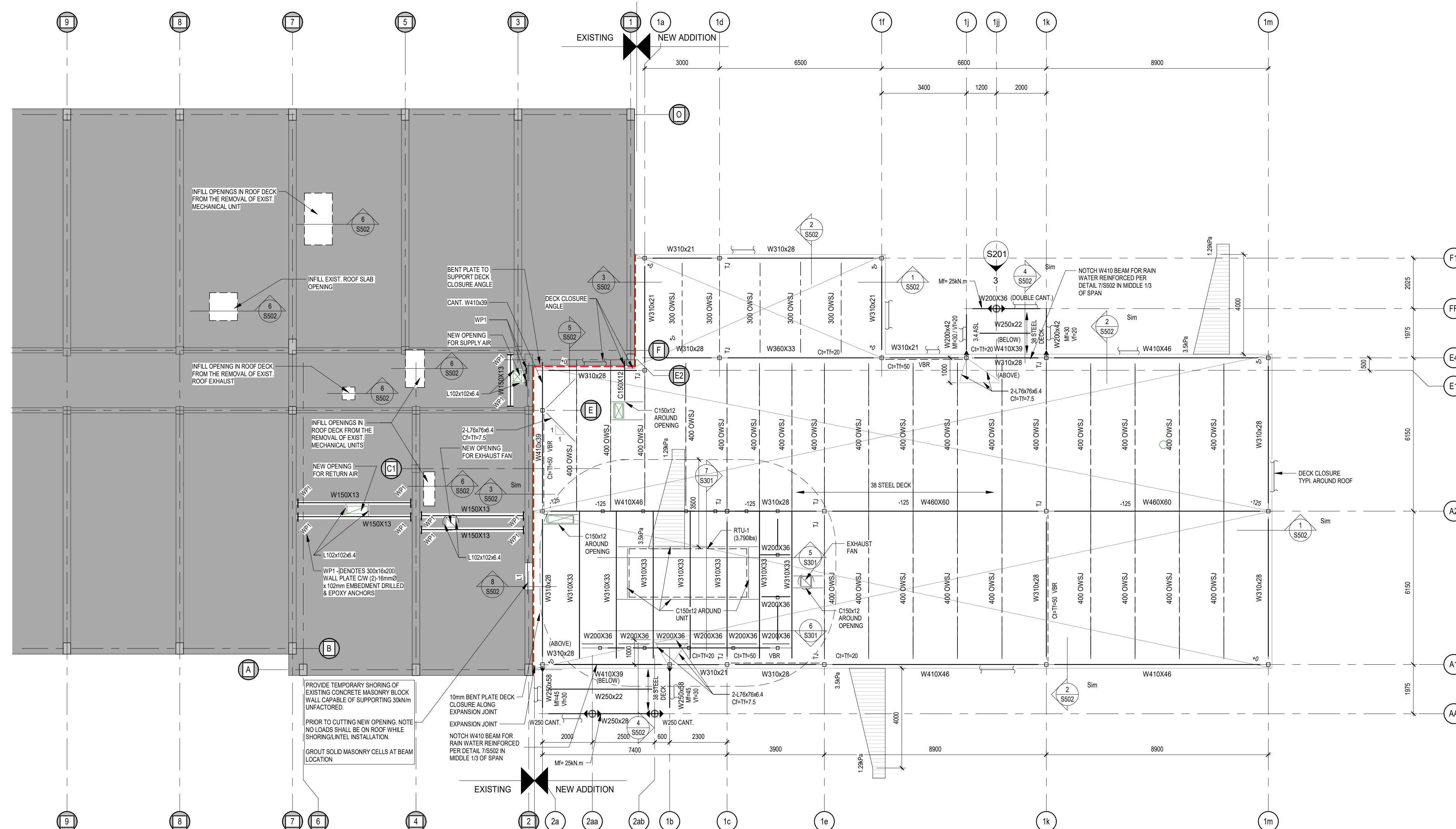
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e-mail: bba@bba-archeng.com

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FILE: Drawings - Current - 18113.RVT

PROJECT NO: **18113**
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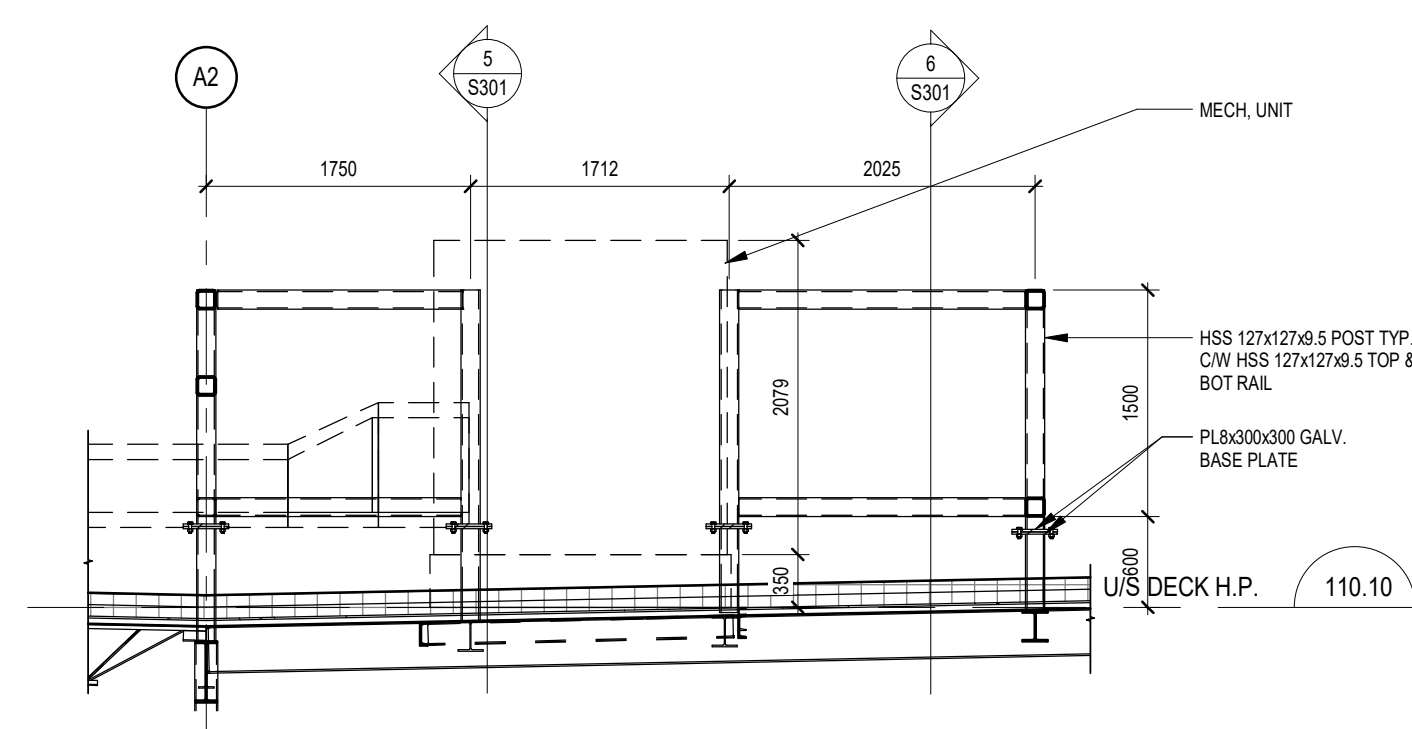


1 ROOF FRAMING PLAN
S202 1 : 100

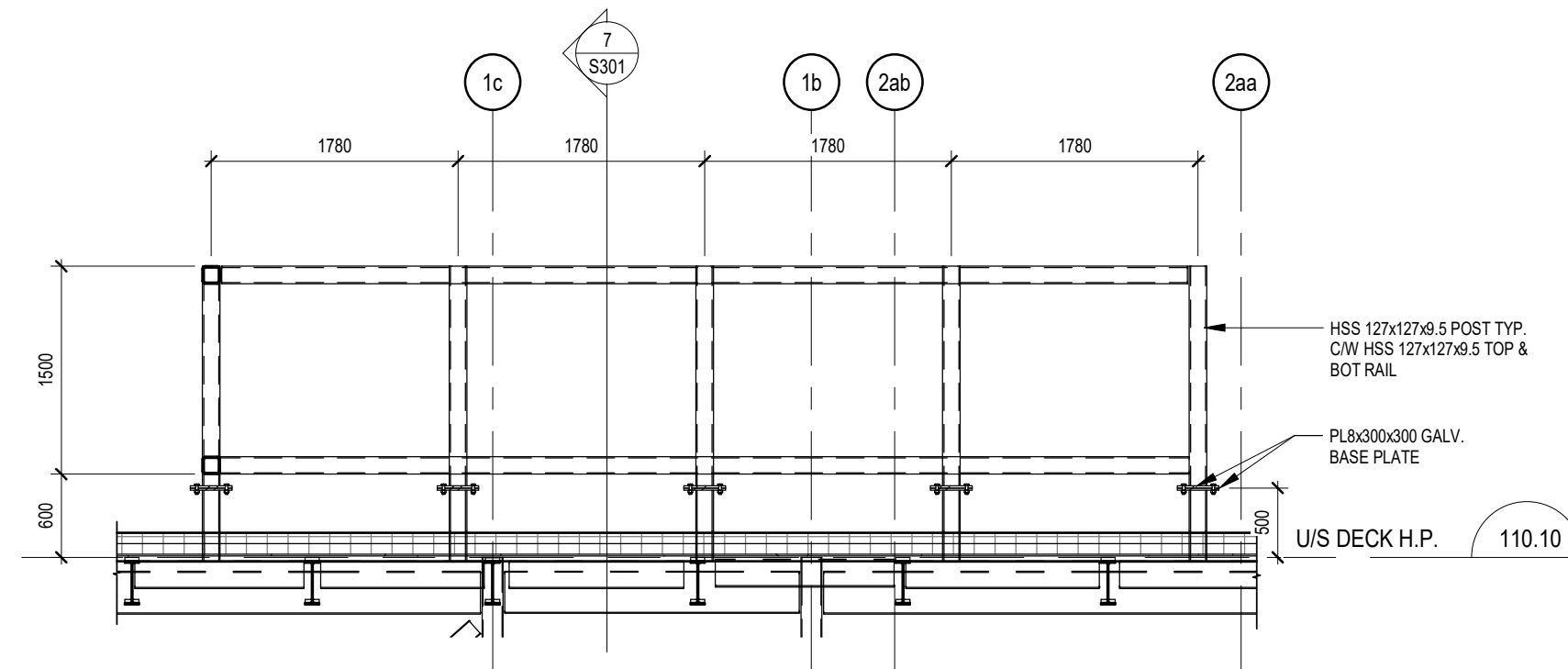
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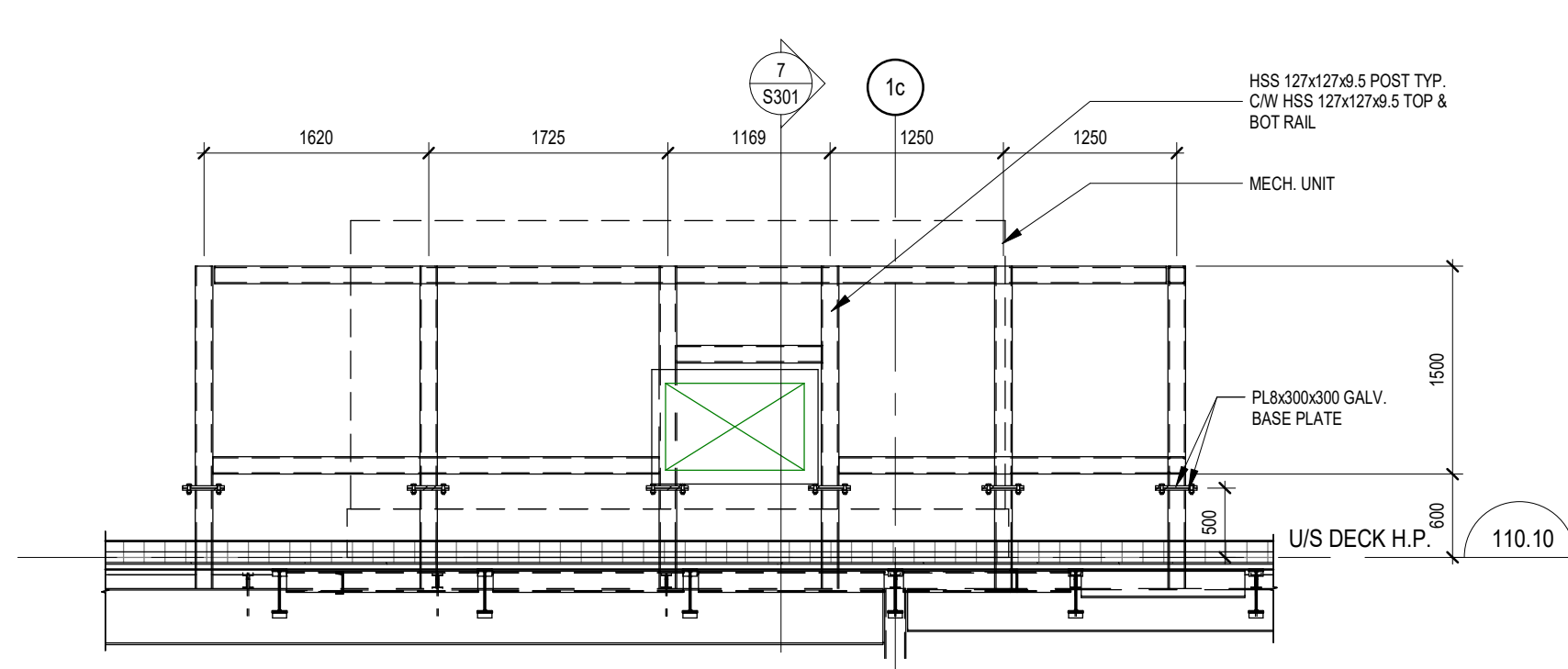
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7 MECH. ROOF SCREEN FRAMING ELEV.
S301 1:50



6 MECH. ROOF SCREEN FRAMING ELEV.
S301 1:50



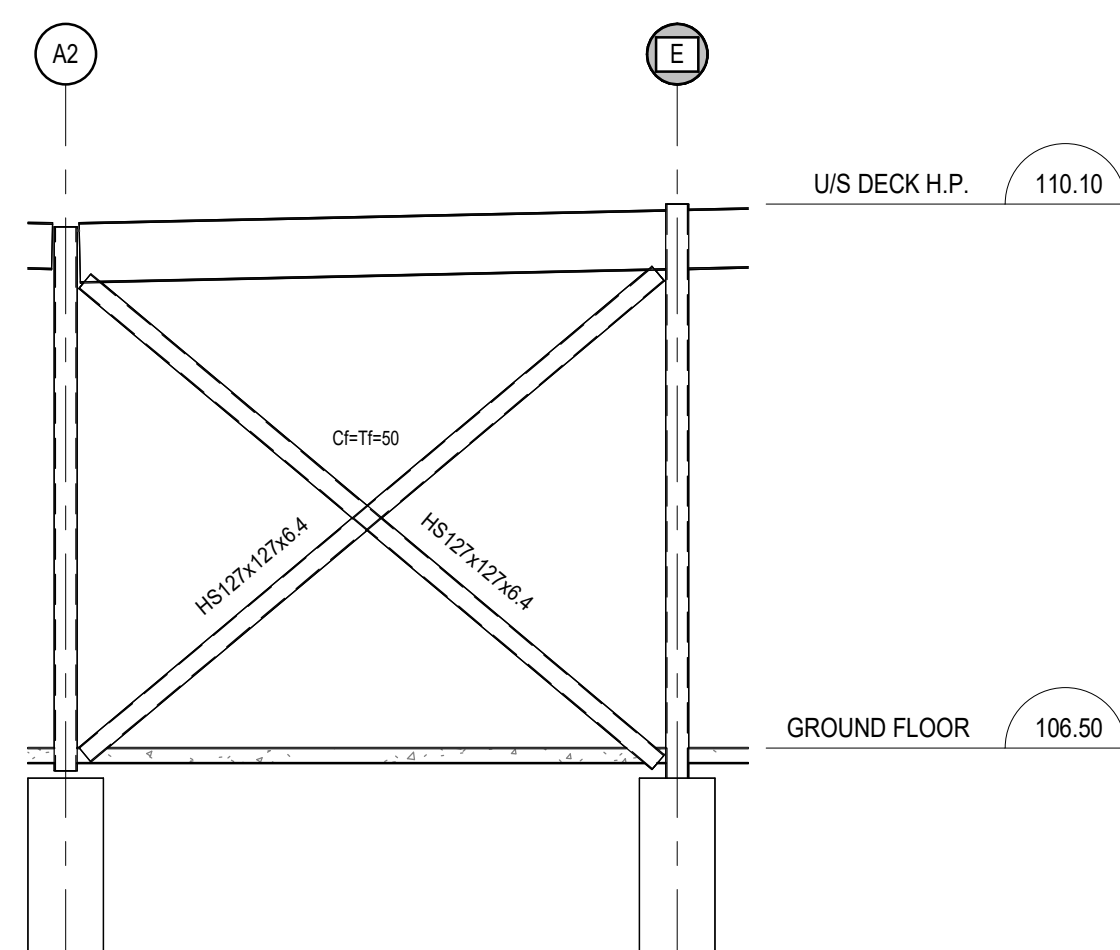
5 MECH. ROOF SCREEN FRAMING ELEV.
S301 1:50

NO.	REVISIONS	DATE	BY

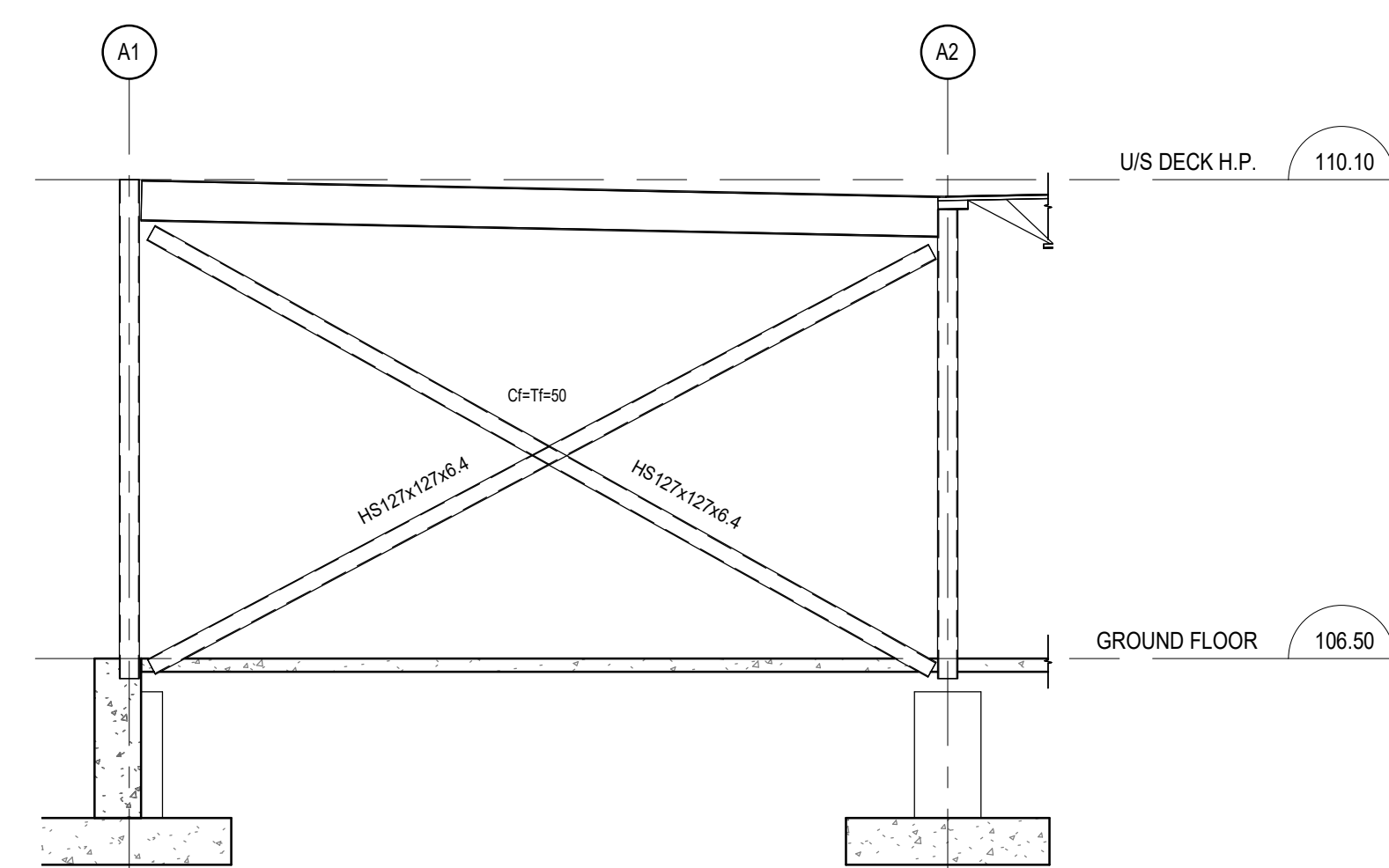
PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

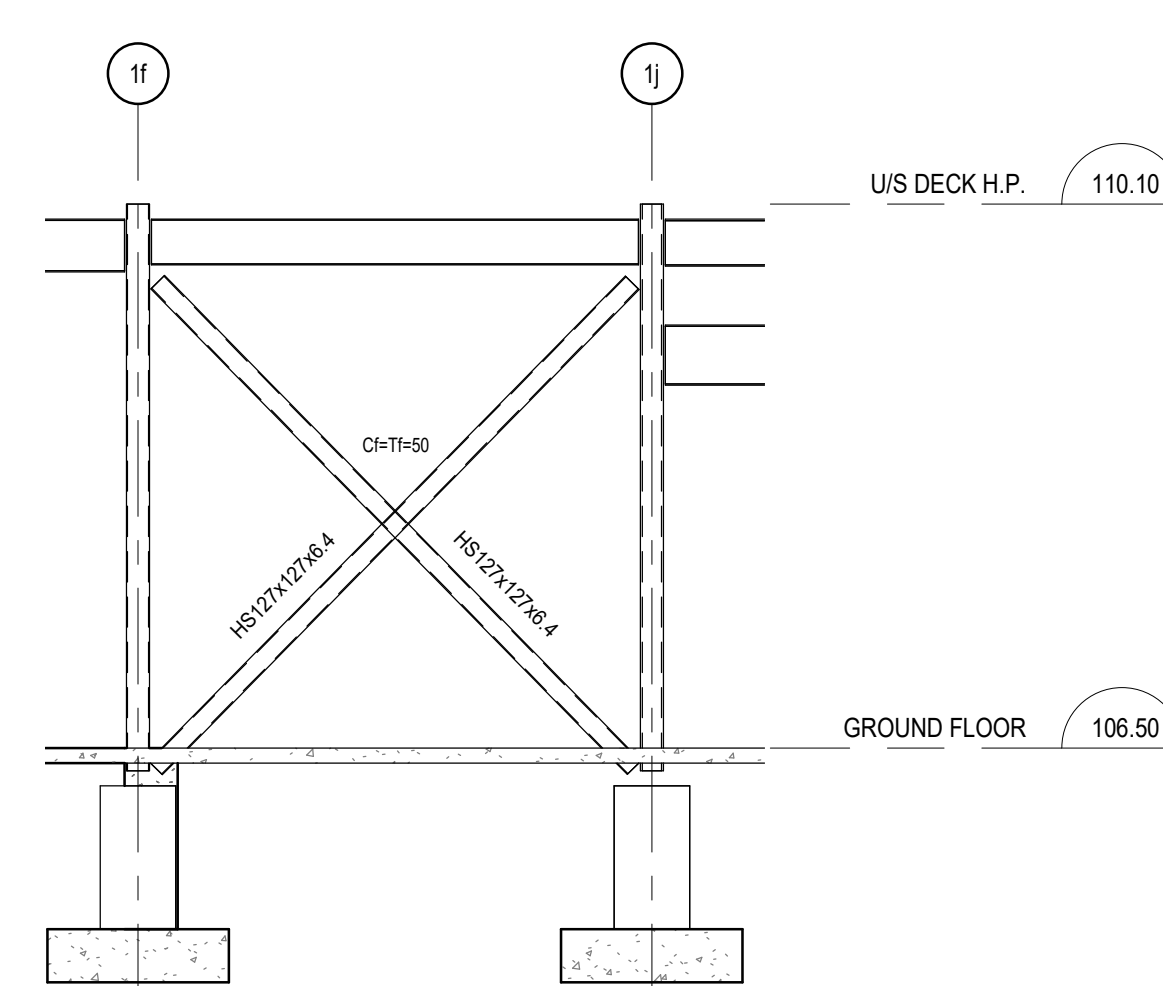
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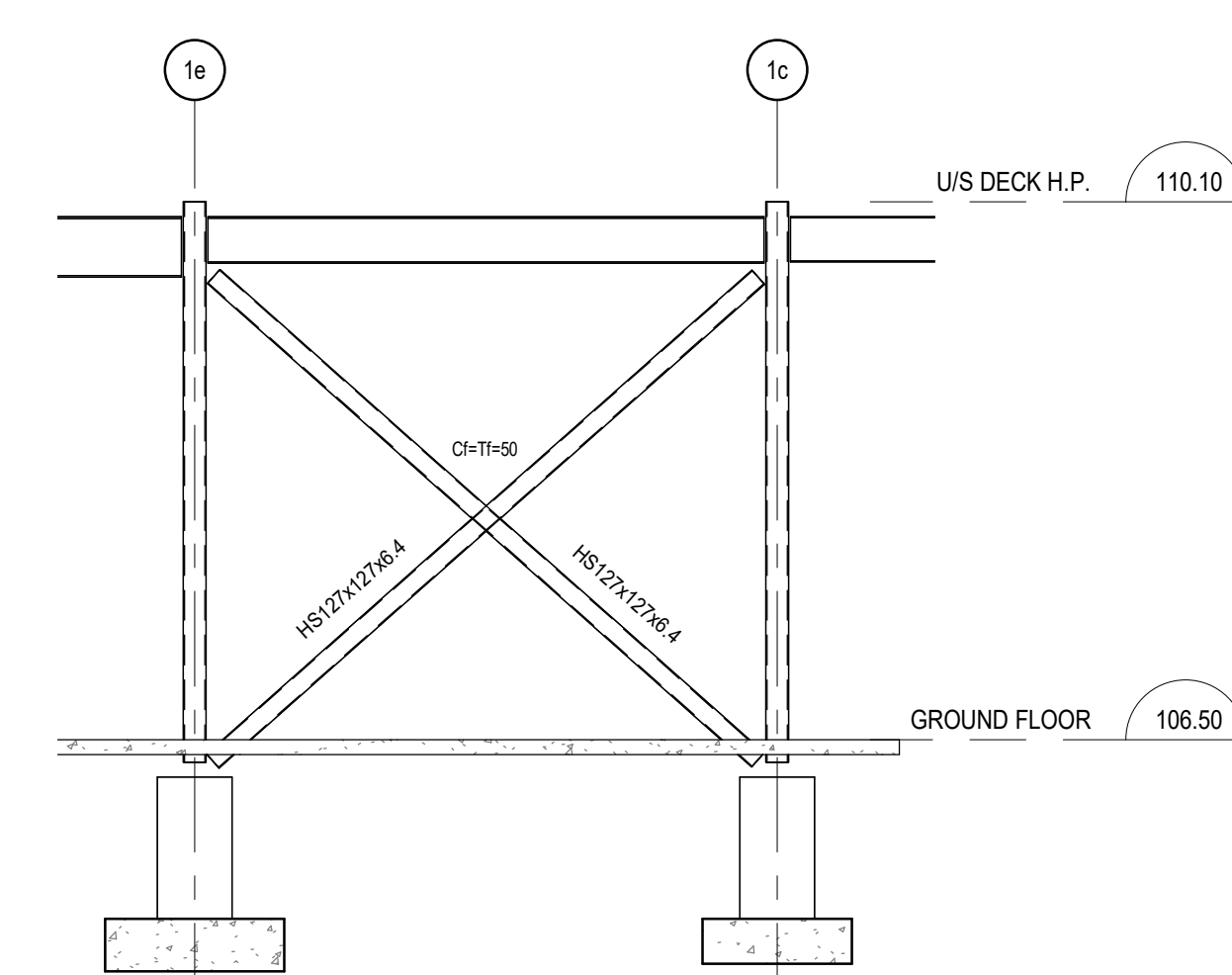
4 FRAMING ELEVATION GL '2a'
S301 1:50



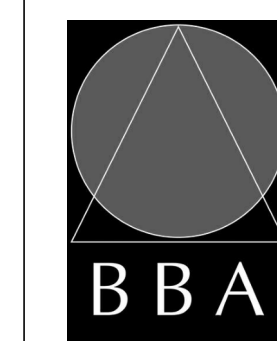
3 FRAMING ELEVATION GL '1k'
S301 1:50



2 FRAMING ELEVATION GL 'E4'
S301 1:50



1 FRAMING ELEVATION GL 'A1'
S301 1:50



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18113

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S301

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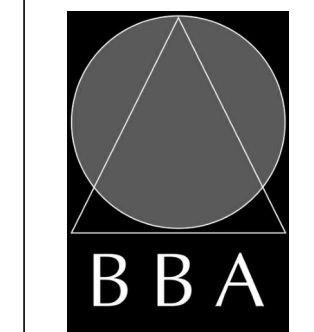
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GARDARIE LA FARANDOLE

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65 Grace Street Toronto

DRAWING:
FOUNDATION SECTIONS



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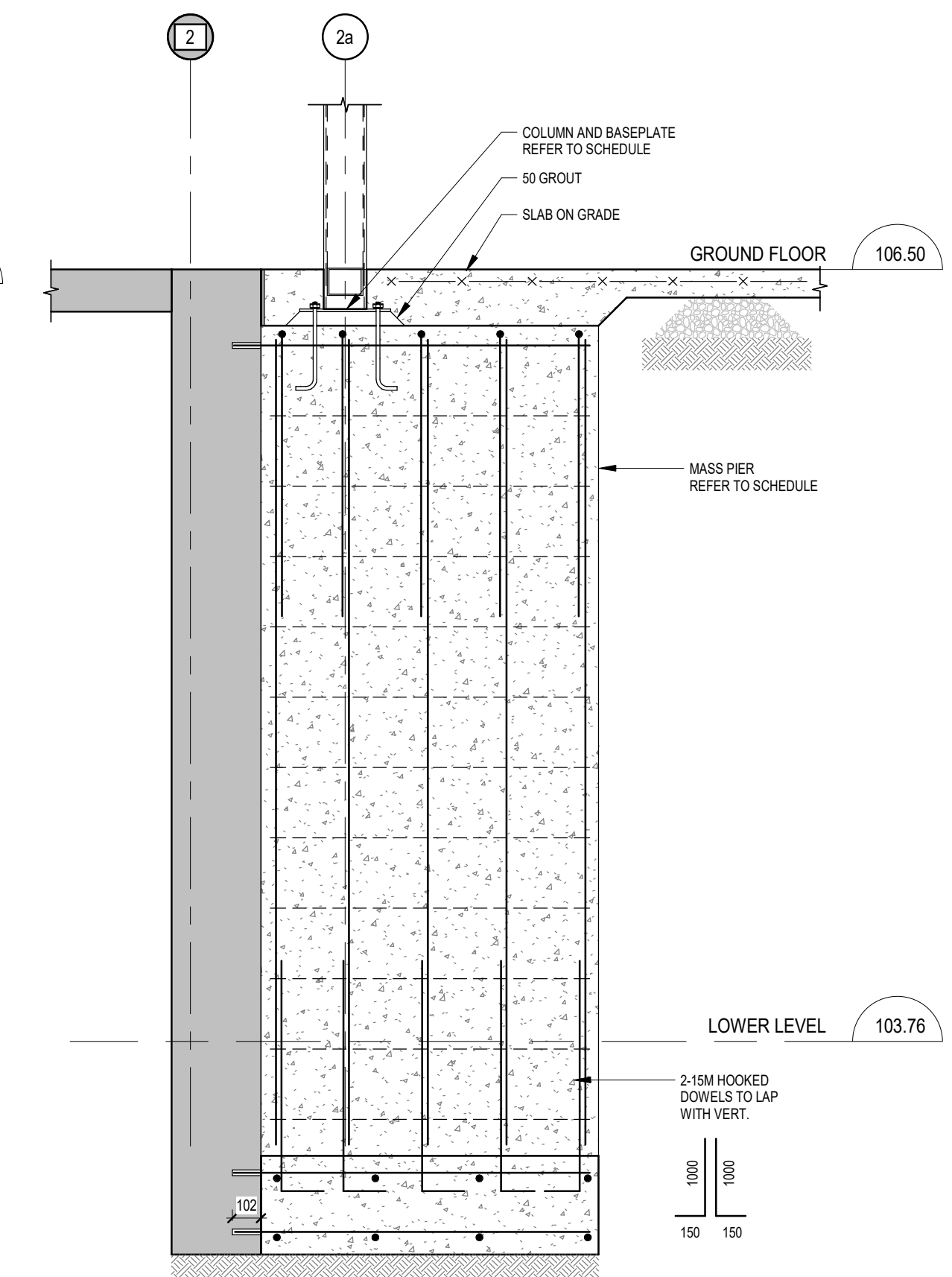
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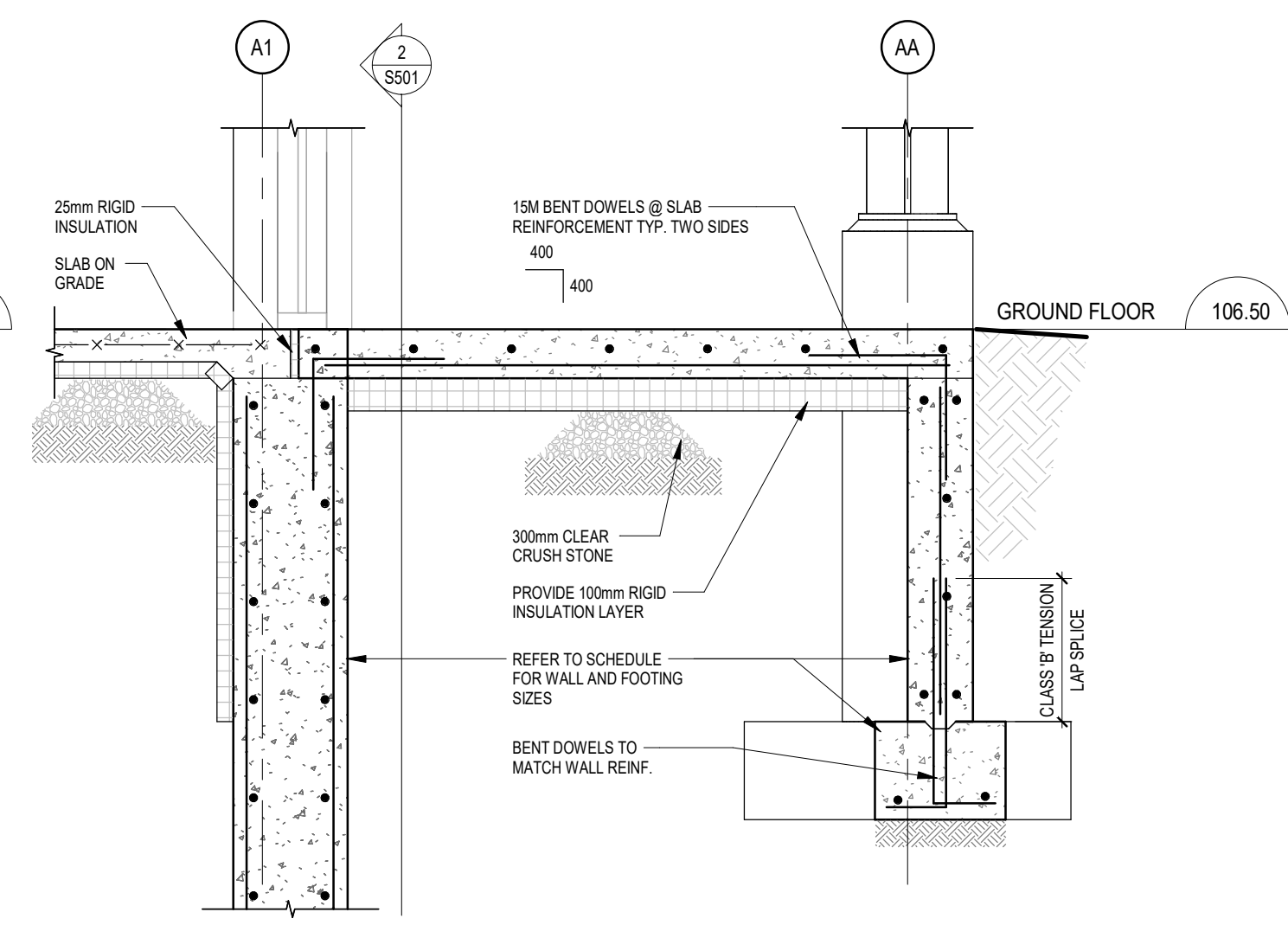
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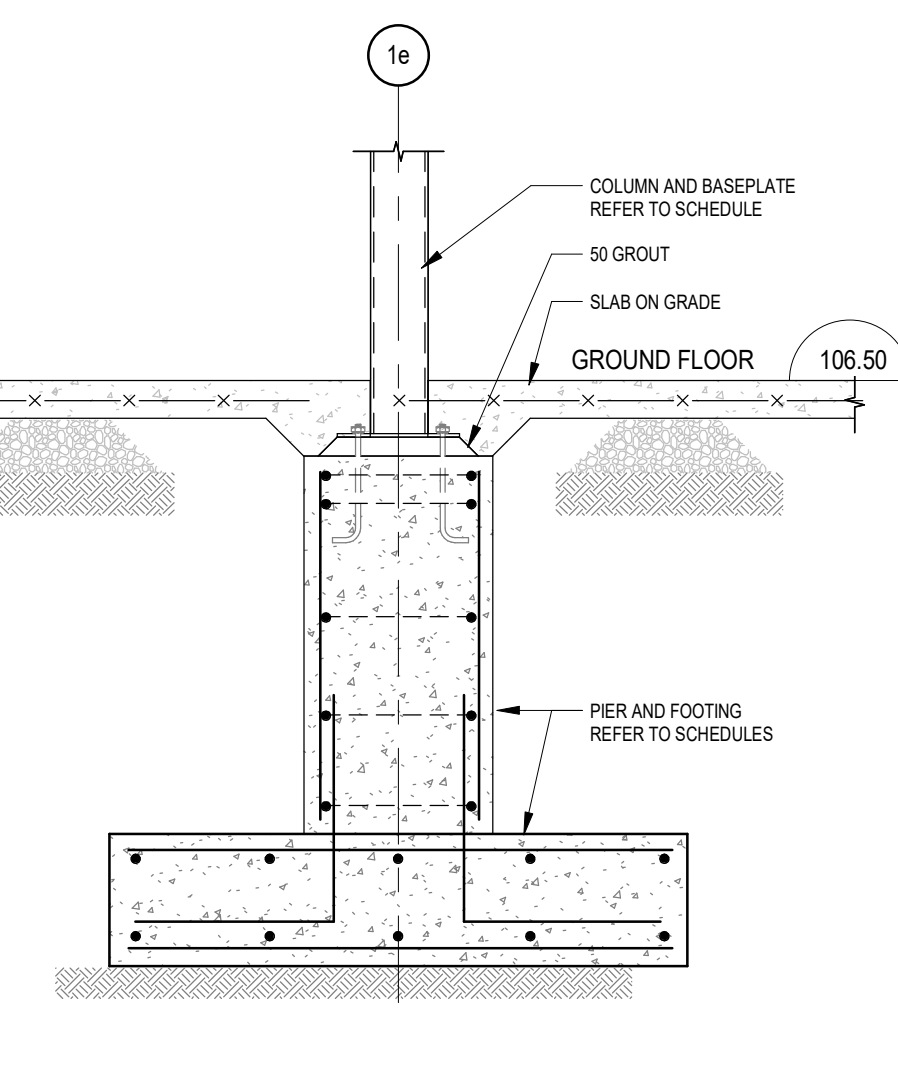
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18113
DRAWING NO:
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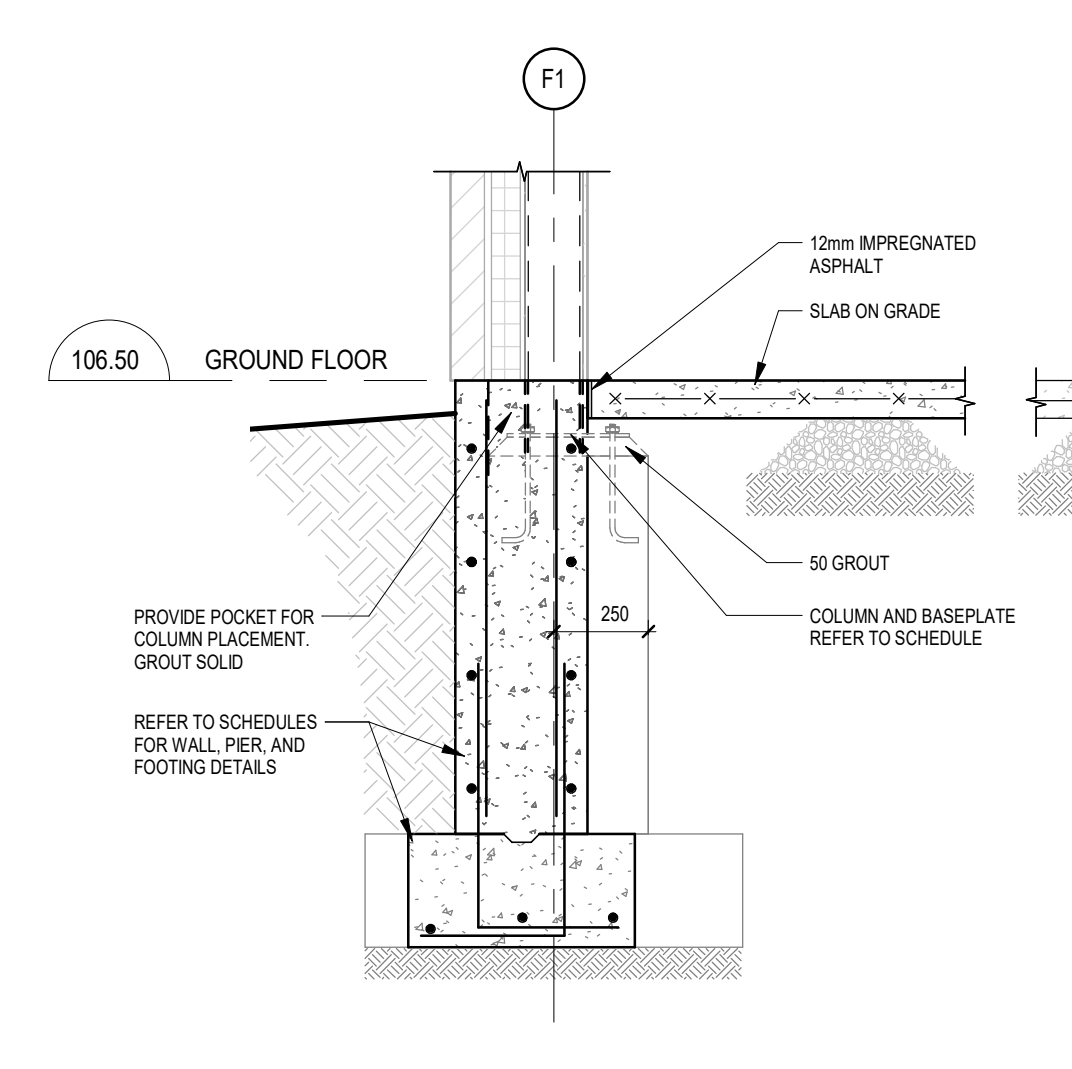
5 FOUNDATION SECTION
S501 1:20



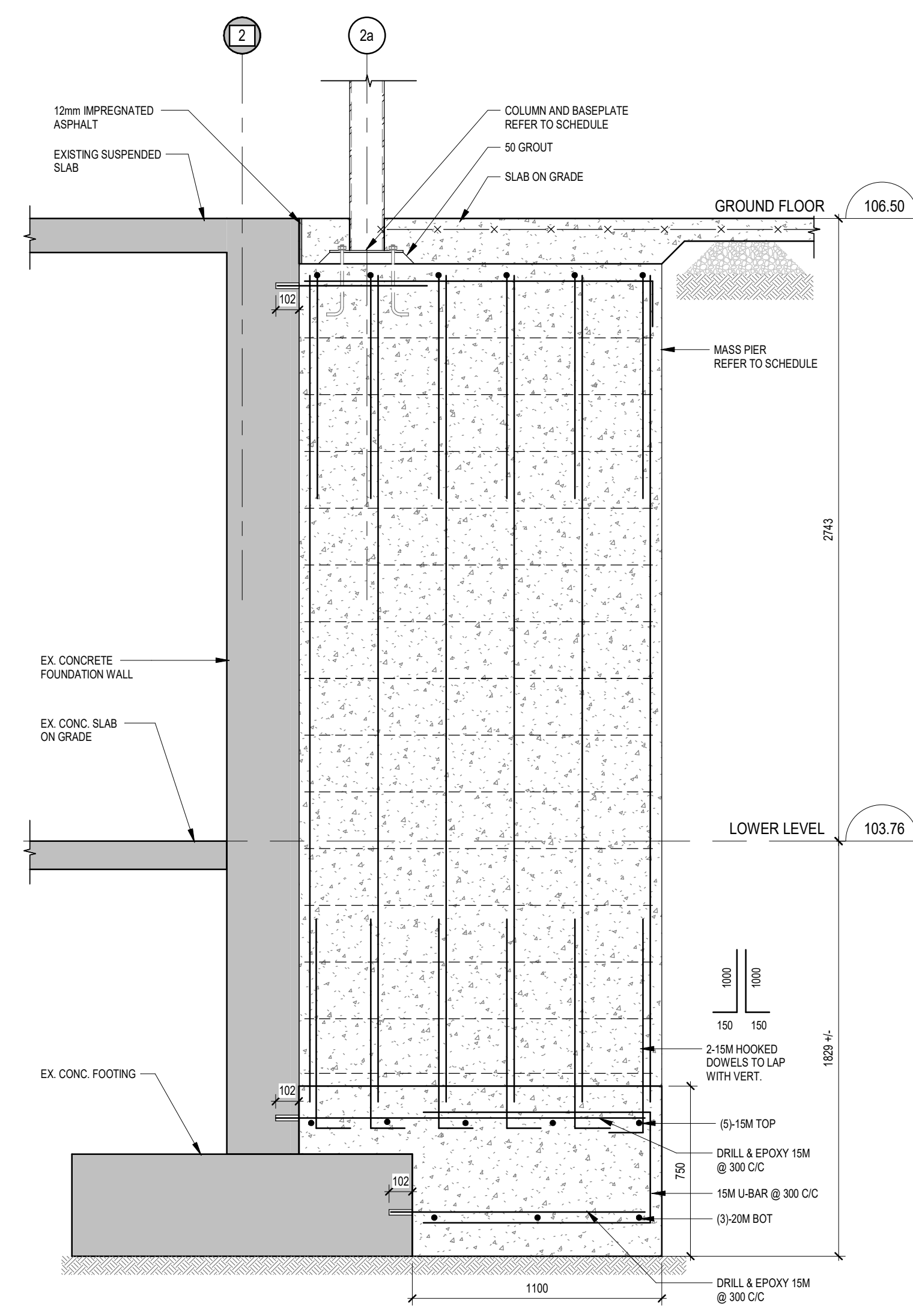
6 FOUNDATION SECTION
S501 1:20



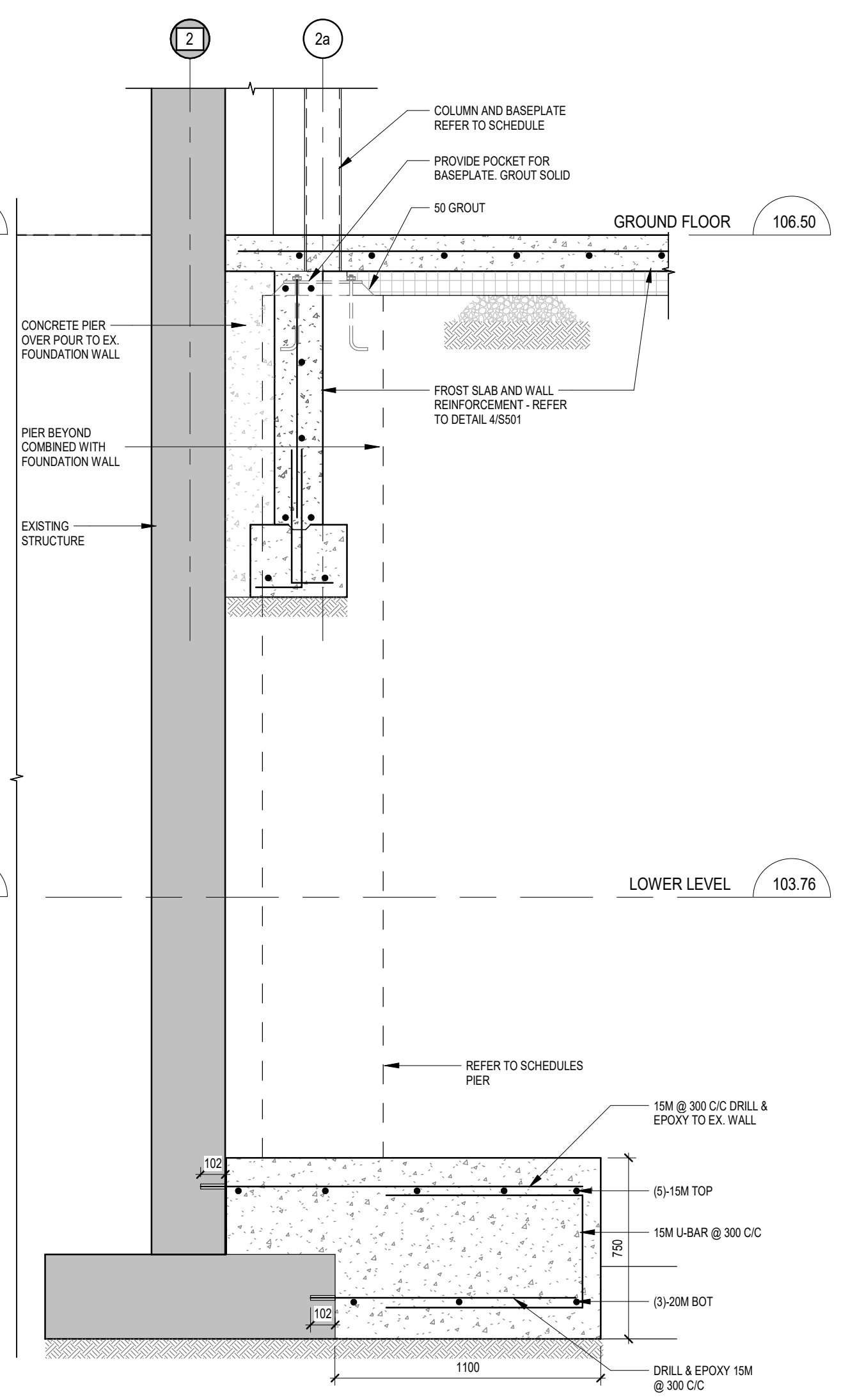
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S501 1:20



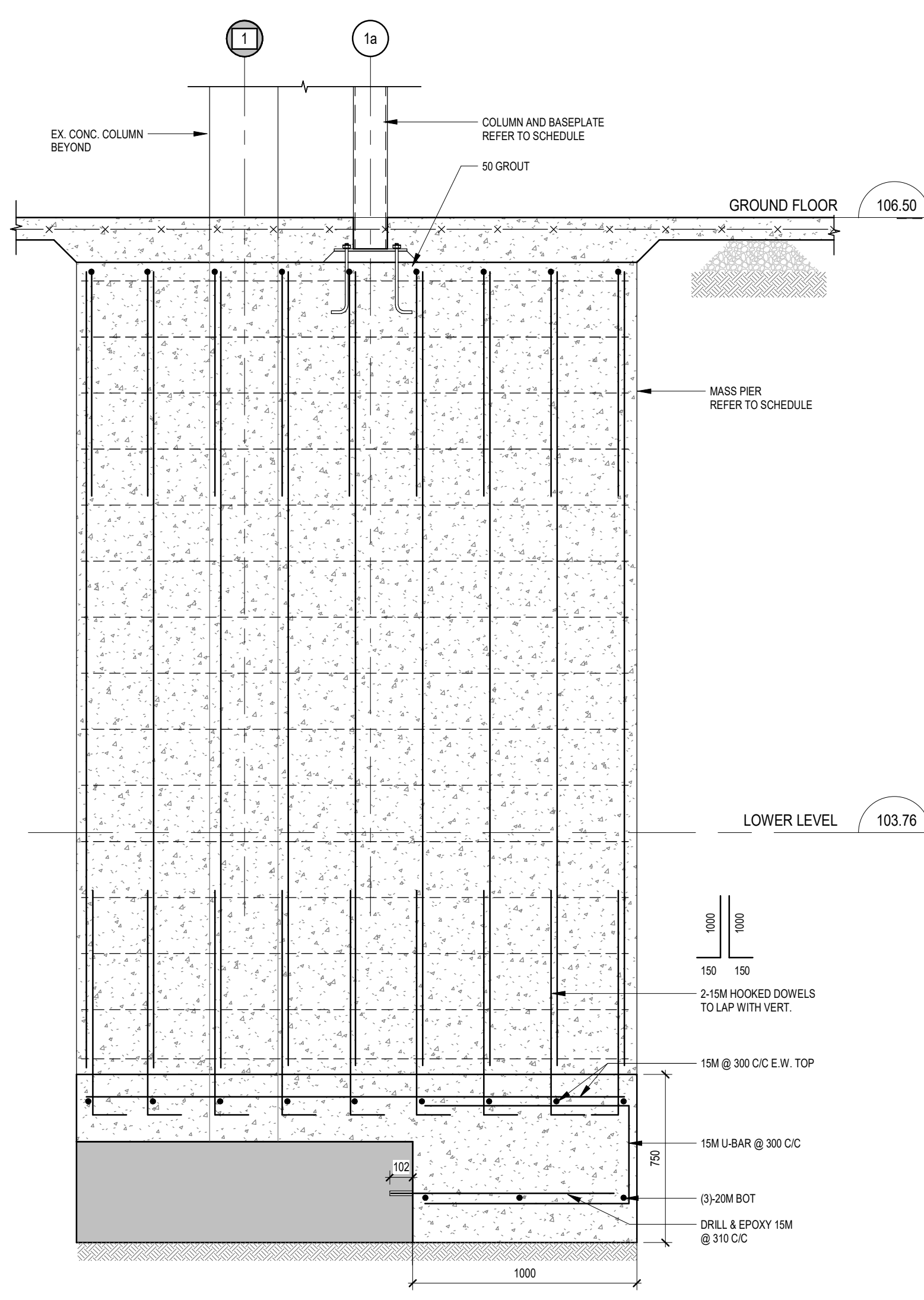
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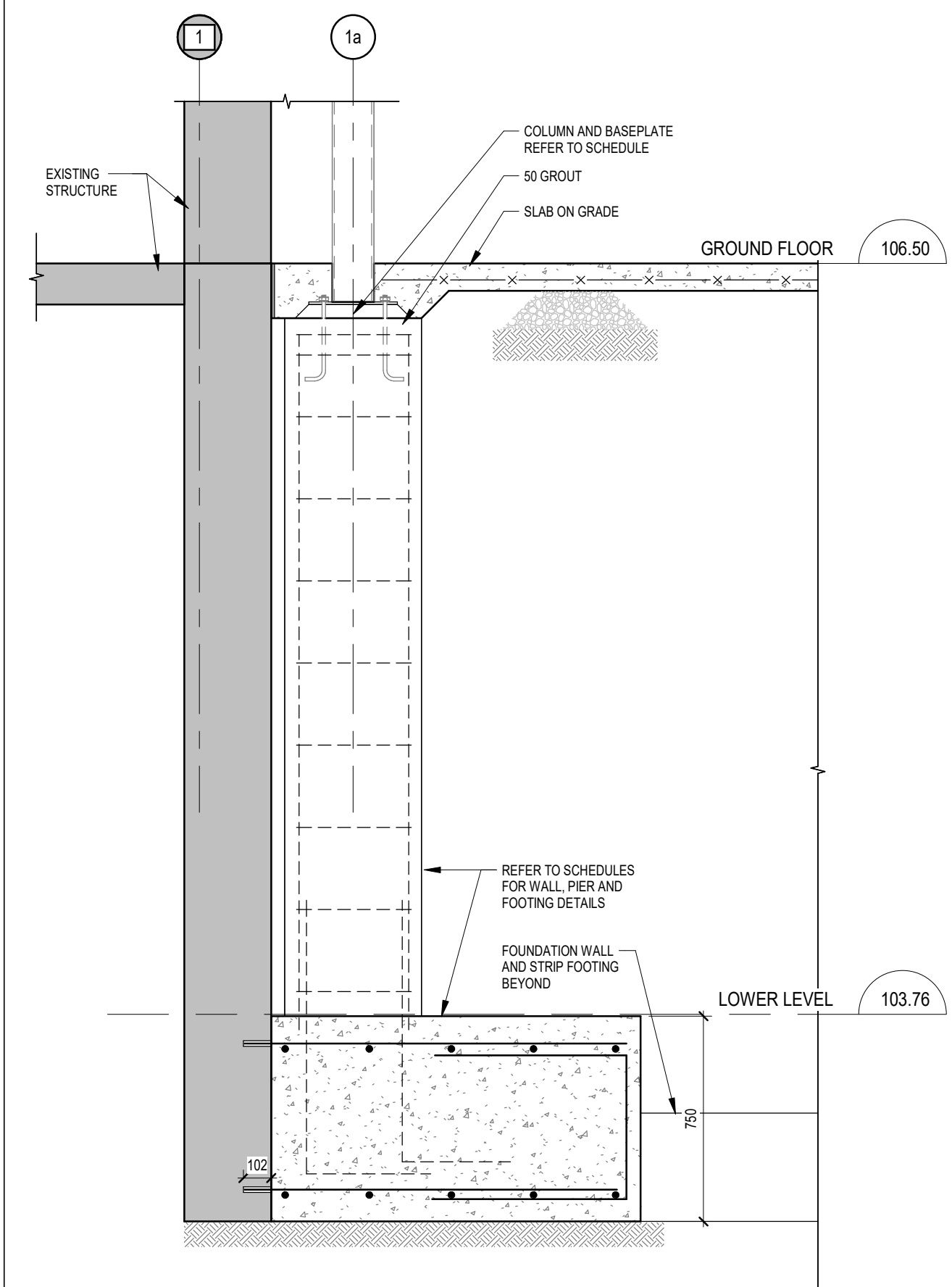
1 FOUNDATION SECTION
S501 1:20



2 FOUNDATION SECTION
S501 1:20



3 FOUNDATION SECTION
S501 1:20



4 FOUNDATION SECTION
S501 1:20

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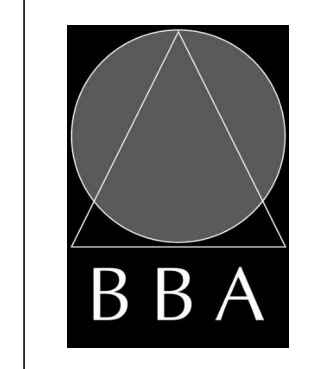
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65 Grace Street Toronto

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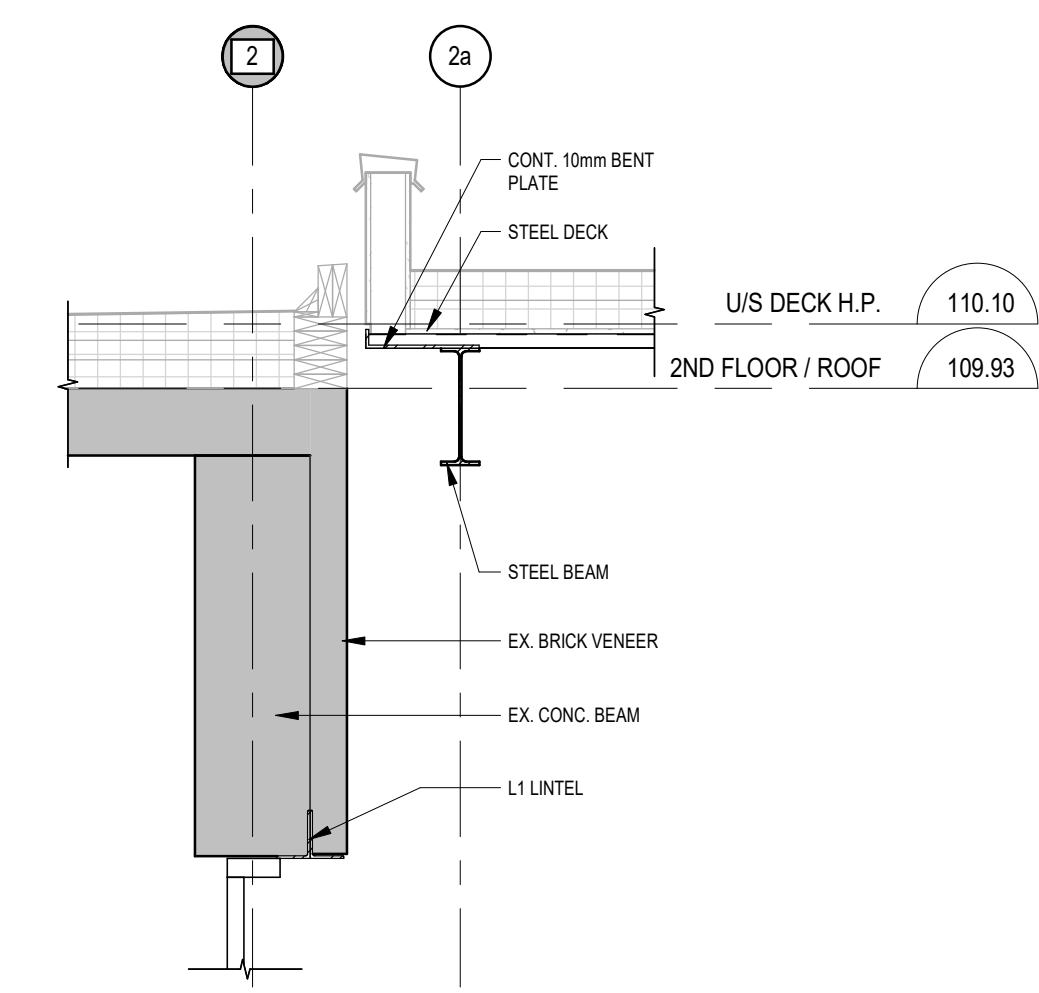
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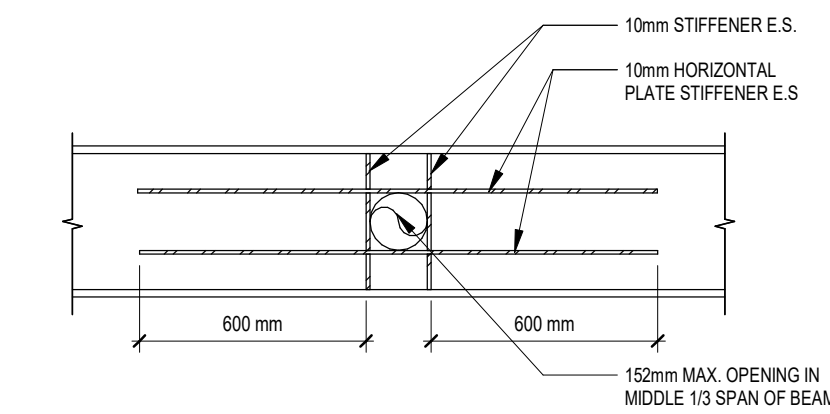
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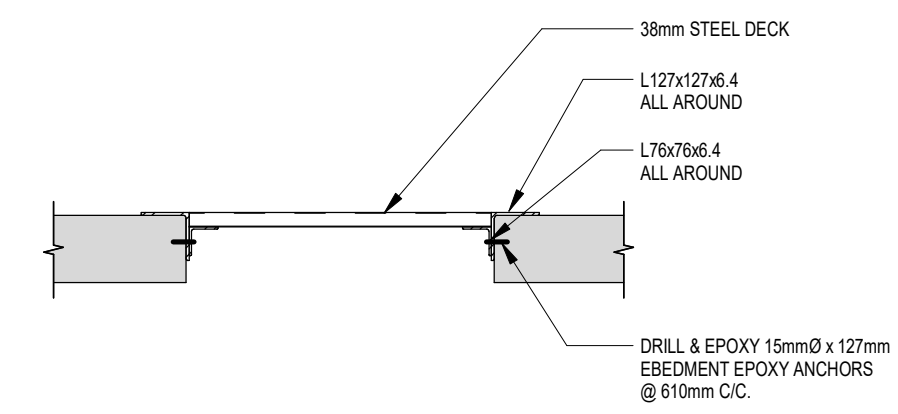
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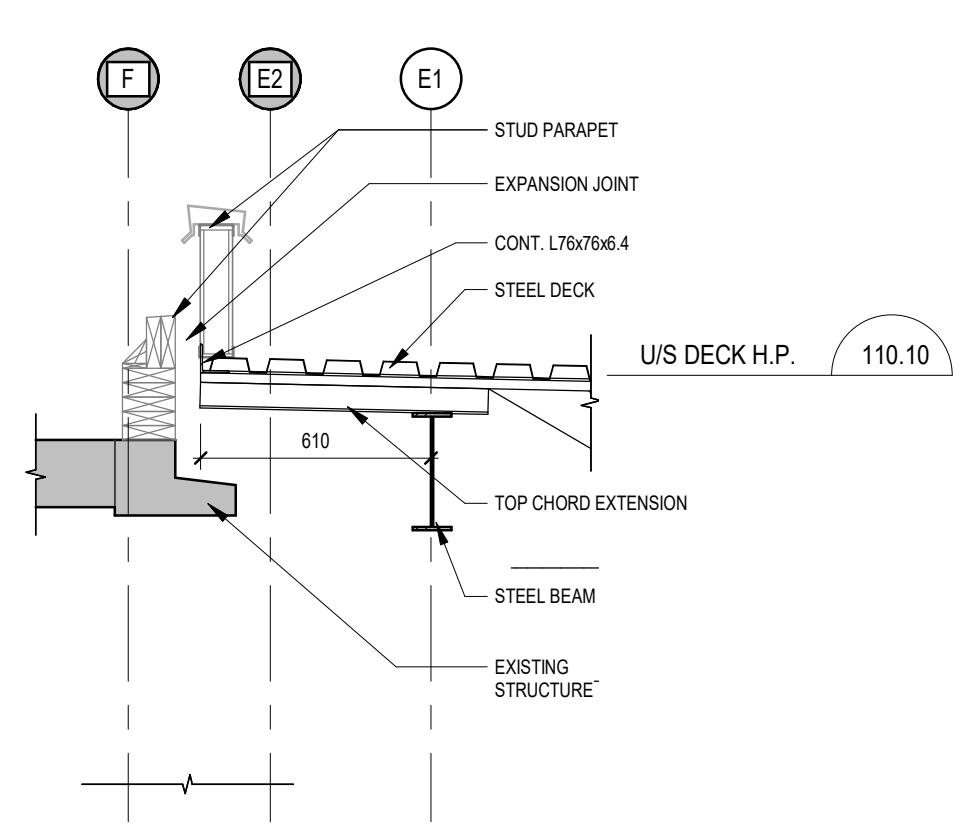
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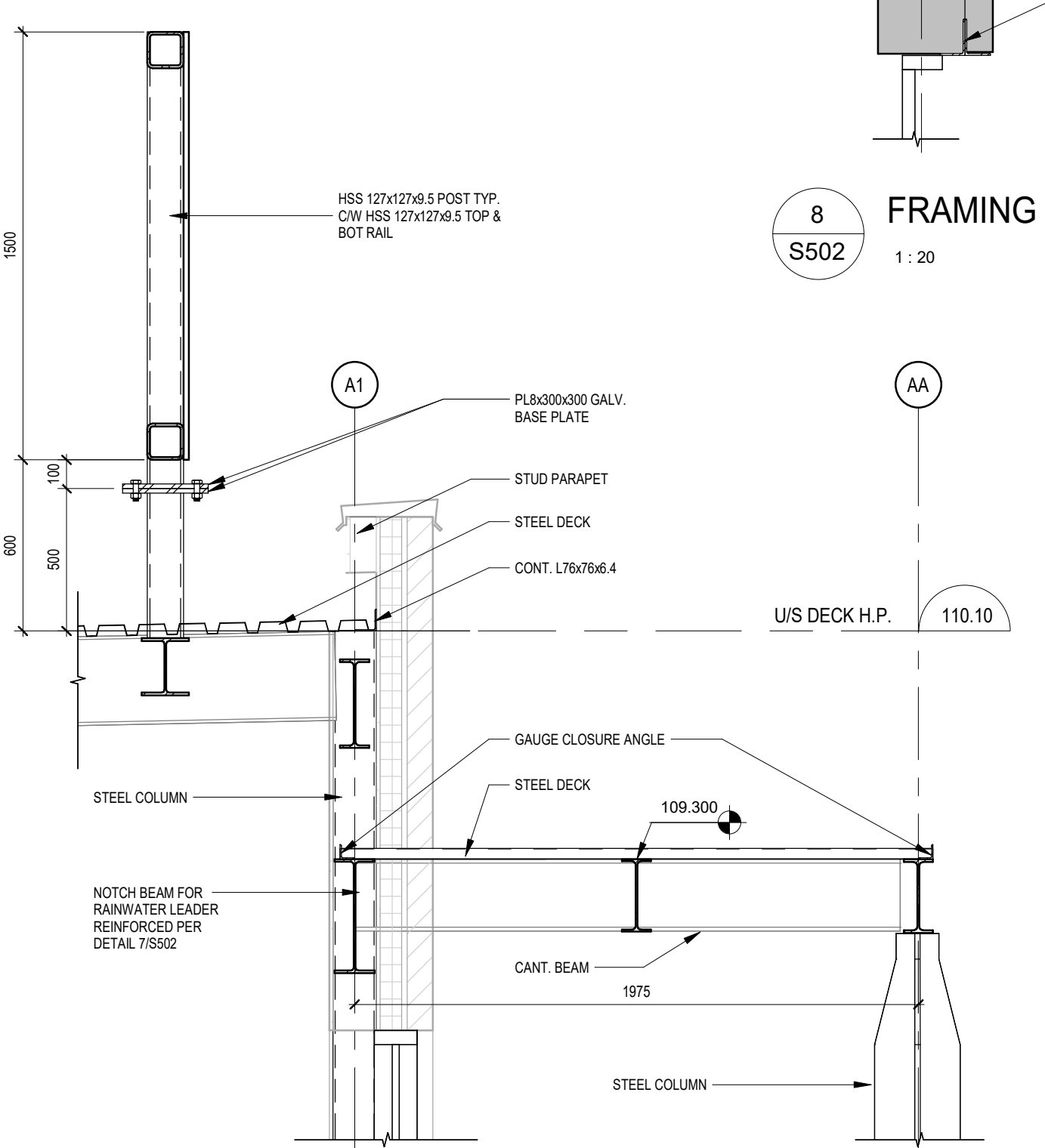
7 TYP. BEAM NOTCHING DETAIL
S502 1:20



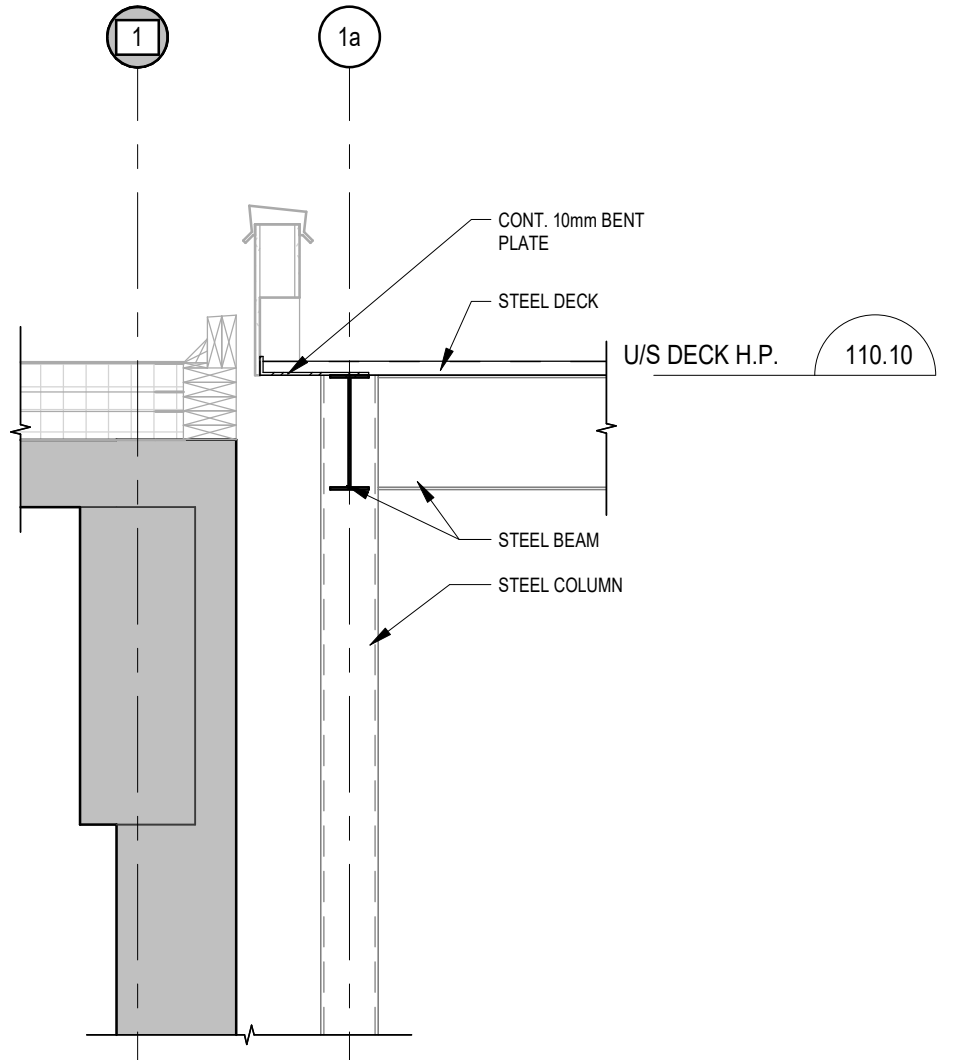
6 TYP. EX. CONC. SLAB OPENING INFILL
S502 1:20



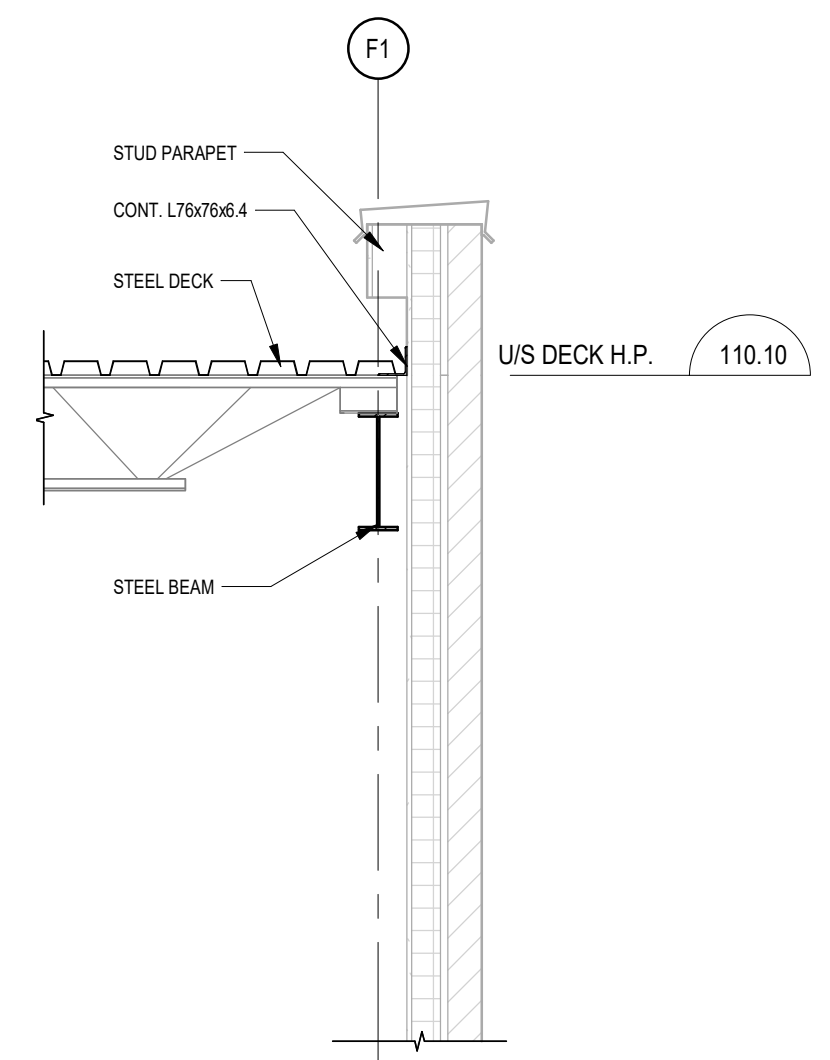
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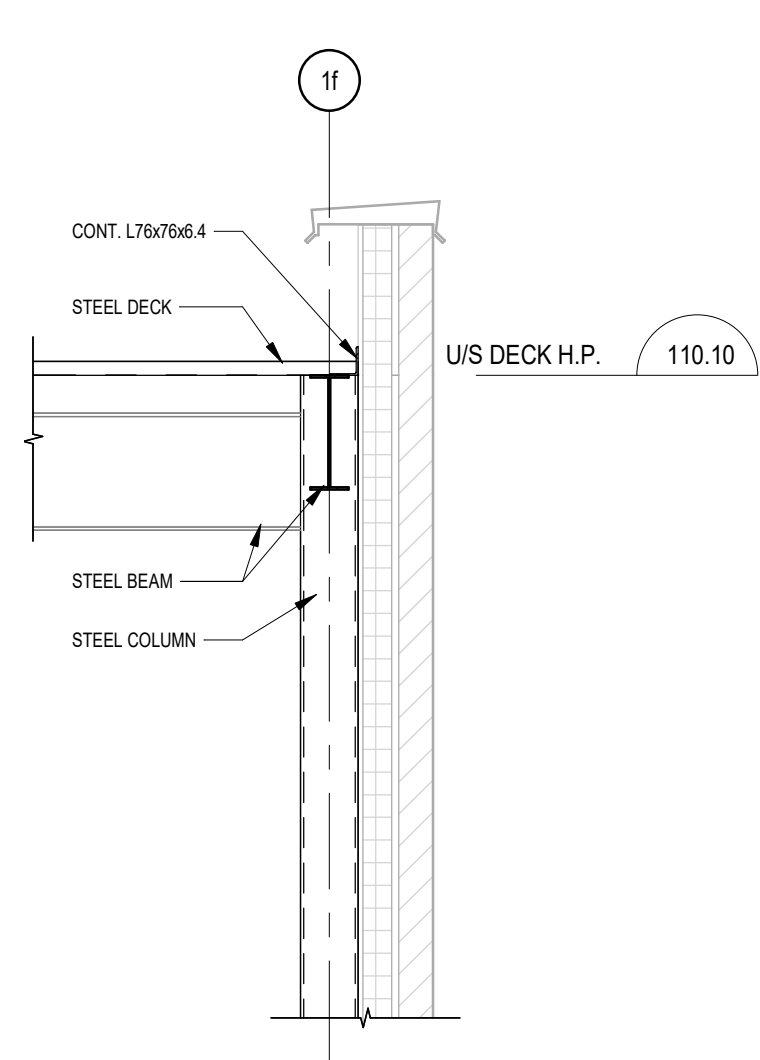
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S502 1:20



3 FRAMING SECTION
S502 1:20



2 FRAMING SECTION
S502 1:20

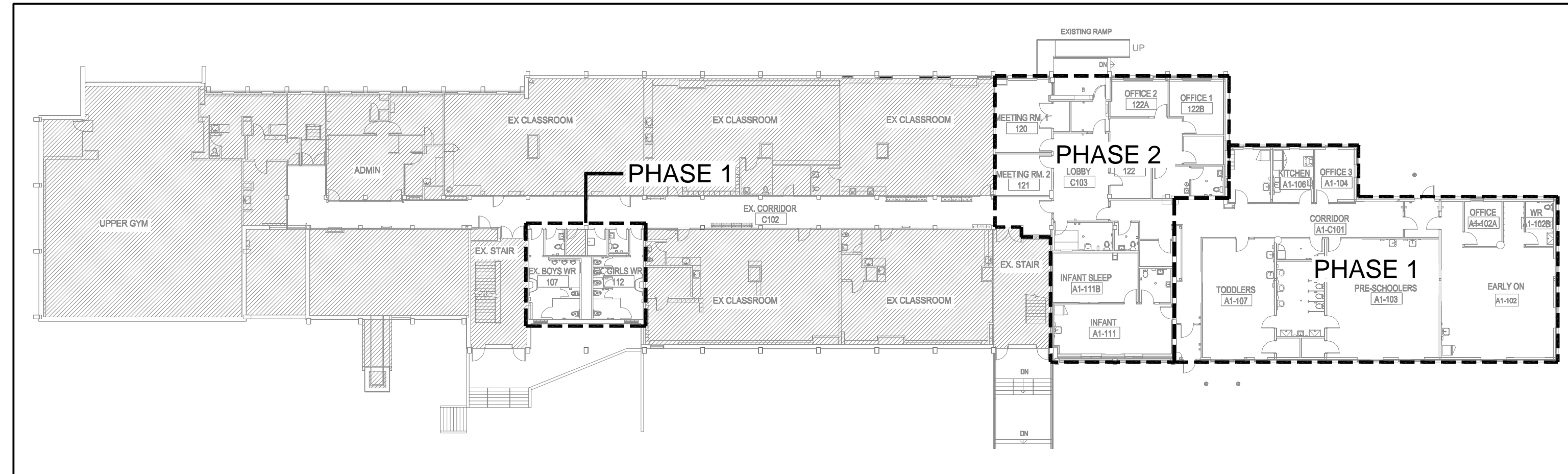


1 FRAMING SECTION
S502 1:20

GARDARIE LA FARANDOLE

65 GRACE STREET
TORONTO, ON

MECHANICAL DRAWINGS



1
M-0
KEYPLAN
NTS

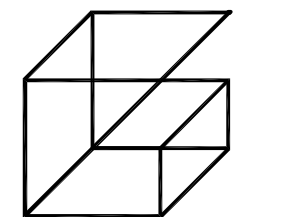
DRAWING LIST

DWG. NO.	DRAWING NAME
M-0	TITLE SHEET
M-1.1	MECHANICAL LEGEND
M-1.2	MECHANICAL SCHEDULES I
M-1.3	MECHANICAL SCHEDULES II
M-1.4	MECHANICAL SCHEDULES III AND DETAILS
M-1.5	MECHANICAL DETAILS
M-1.6	KITCHEN EQUIPMENT SPECIFICATIONS I
M-1.7	KITCHEN EQUIPMENT SPECIFICATIONS II
M-1.8	KITCHEN EQUIPMENT SPECIFICATIONS III
M-2.1	PHASE 1 GROUND FLOOR NEW PLAN - HVAC
M-2.2	PHASE 1 GROUND FLOOR NEW PLAN - HYDRONIC PIPING SYSTEM
M-2.3	PHASE 1 ROOF NEW PLAN - MECHANICAL
M-2.4	PHASE 1 BASEMENT NEW PLAN - MECHANICAL
M-2.5	PHASE 1 GROUND FLOOR WASHROOM PLAN - HVAC
M-2.6	PHASE 2 GROUND FLOOR DEMOLITION PLAN - HVAC
M-2.7	PHASE 2 ROOF DEMOLITION PLAN - MECHANICAL
M-2.8	PHASE 2 BASEMENT DEMOLITION PLAN - HVAC
M-2.9	PHASE 2 BASEMENT DEMOLITION PLAN - HYDRONIC PIPING SYSTEM
M-2.10	PHASE 2 GROUND FLOOR NEW PLAN - HVAC
M-2.11	PHASE 2 GROUND FLOOR NEW PLAN - HYDRONIC PIPING SYSTEM
M-2.12	PHASE 2 ROOF NEW PLAN - MECHANICAL
M-2.13	PHASE 2 BASEMENT NEW PLAN - HYDRONIC PIPING SYSTEM
M-3.1	PHASE 1 GROUND FLOOR NEW PLAN - PLUMBING
M-3.2	PHASE 1 BASEMENT NEW PLAN - PLUMBING
M-3.3	PHASE 1 GROUND FLOOR WASHROOM PLAN - PLUMBING AND DRAINAGE
M-3.4	PHASE 2 GROUND FLOOR DEMOLITION PLAN - PLUMBING
M-3.5	PHASE 2 BASEMENT DEMOLITION PLAN - PLUMBING
M-3.6	PHASE 2 GROUND FLOOR NEW PLAN - PLUMBING
M-4.1	PHASE 1 GROUND FLOOR NEW PLAN - DRAINAGE
M-4.2	PHASE 1 BASEMENT NEW PLAN - DRAINAGE
M-4.3	PHASE 2 GROUND FLOOR DEMOLITION PLAN - DRAINAGE
M-4.4	PHASE 2 BASEMENT DEMOLITION PLAN - DRAINAGE
M-4.5	PHASE 2 GROUND FLOOR NEW PLAN - DRAINAGE
M-4.6	PHASE 2 BASEMENT NEW PLAN - DRAINAGE
M-5.1	PHASE 1 GROUND FLOOR PLAN - FIRE PROTECTION
M-5.2	PHASE 1 BASEMENT PLAN - FIRE PROTECTION
M-5.3	PHASE 2 GROUND FLOOR PLAN - FIRE PROTECTION



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
02	ISSUED FOR PERMIT	24/05/30	SW
03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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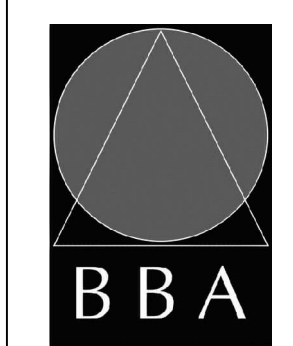
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
TITLE SHEET



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DESIGN BY: JH	DOC CONTROL DATE:
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CHECKED BY: RG	INITIAL:
DATE: FEB 2023	
SCALE: AS NOTED	
FILE:	

PROJECT NO: **23-108** DRAWING NO: **M-0**

HVAC LEGEND	
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK/EQUIPMENT
	EXISTING DUCTWORK/EQUIPMENT TO BE REMOVED
	NEW RIGID DUCTWORK
	EXISTING FLEXIBLE DUCTWORK
	NEW FLEXIBLE DUCTWORK
	SUPPLY AIR DUCTWORK UP
	SUPPLY AIR DUCTWORK DOWN
	RETURN AIR DUCTWORK UP
	RETURN AIR DUCTWORK DOWN
S/A	'SUPPLY AIR'
R/A	'RETURN AIR'
F/D	'FIRE DAMPER'
FS/D	'COMBINATION FIRE SMOKE DAMPER'
L BD	'BALANCING DAMPER'
BDD	'BACKDRAFT DAMPER'
M/D	'MOTORIZED DAMPER'
	SQUARE SUPPLY AIR DIFFUSER
	SUPPLY AIR GRILLE
	RETURN AIR GRILLE
	SLOT DIFFUSER
	THERMOSTAT
	HUMIDISTAT
	CARBON DIOXIDE SENSOR
	CARBON MONOXIDE DETECTOR
	ZONE SENSOR
$\frac{A-6''}{150CFM}$	DIFF. TYPE/SIZE AIR CAPACITY
TYP.	'TYPICAL'
X-XX	EQUIPMENT TAG
CTE	'CONNECT TO EXISTING'
	FAN-POWERED TERMINAL UNIT
	VAV TERMINAL UNIT
	CABINET EXHAUST FAN
	INLINE EXHAUST FAN
	ELECTRIC DUCT HEATER
	CIRCULAR EXHAUST FAN
	BASEBOARD HEATER
	FORCE FLOW HEATER
	UNIT HEATER
	DUCTWORK WITH ACOUSTIC OR THERMAL INSULATION (SEE SPECS.)
	DUCTWORK WITH ACOUSTIC INSULATION
	DUCTWORK WITH THERMAL INSULATION
	CONTINUATION OF DUCTWORK/PIPING
	EXISTING CONTROL WIRING
	NEW CONTROL WIRING
	SPIN-ON DUCT CONNECTION WITH BALANCING DAMPER
	DRAWING NOTE
	ROUND SUPPLY AIR DIFFUSER
	LOUVERED FACE SUPPLY/RETURN GRILLE
CAP	CAP ON DUCTWORK
	BRANCH ON DUCTWORK

PIPING LEGEND	
SYMBOL	DESCRIPTION
EX.HWS	EXISTING HEATING WATER SUPPLY
EX.HWR	EXISTING HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
EX.CHWS	EXISTING CHILLED WATER SUPPLY
EX.CHWR	EXISTING CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
EX.CWS	EXISTING CONDENSER WATER SUPPLY
EX.CWR	EXISTING CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
	3-PORT CONTROL VALVE
	2-WAY CONTROL VALVE
	GATE VALVE
	GLOBE VALVE
	CHECK VALVE
CBV	CIRCUIT BALANCING VALVE
	BALL VALVE
	SAFETY RELIEF VALVE
	STRAINER
U	UNION
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
N.O.	'NORMALLY OPEN'
N.C.	'NORMALLY CLOSED'
	PRESSURE GAUGE
	THERMOMETER
	AQUASTAT
PRV	PRESSURE REDUCING VALVE
VB	VACUUM BREAKER
	BACKFLOW PREVENTER
FS	FLOW SWITCH
AAV	AUTOMATIC AIR VENT
LWCO	LOW WATER CUT-OFF
	PLUG/COCK VALVE
	BUTTERFLY VALVE
	TEST PORT
	PUMP
CAP	CAP ON PIPING
	DRAWING NOTE
	ISOLATION VALVE
	PIPING DROPDOWN
	WATER METER
	A - HEATER REFERENCE TAG
	B - ACTIVE LENGTH (MM)
	C - HEAT OUTPUT (KW)

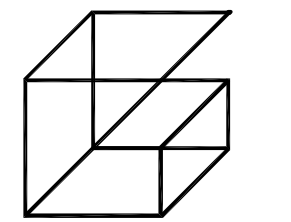
PLUMBING LEGEND	
SYMBOL	DESCRIPTION
EX.SAN	EXISTING ABOVE GROUND SANITARY DRAINAGE PIPING
EX.SAN	EXISTING UNDERGROUND SANITARY DRAINAGE PIPING
SAN	ABOVE GROUND SANITARY DRAINAGE PIPING
SAN	UNDERGROUND SANITARY DRAINAGE PIPING
EX.STM	EXISTING ABOVE GROUND STORM DRAINAGE PIPING
EX.STM	EXISTING UNDERGROUND STORM DRAINAGE PIPING
STM	ABOVE GROUND STORM DRAINAGE PIPING
STM	UNDERGROUND STORM DRAINAGE PIPING
EX.V	EXISTING ABOVE GROUND VENT PIPING
EX.V	EXISTING UNDERGROUND VENT PIPING
V	ABOVE GROUND VENT PIPING
V	UNDERGROUND VENT PIPING
EX.CD	EXISTING CONDENSATE DRAINAGE PIPING
CD	CONDENSATE DRAINAGE PIPING
	EXISTING DOMESTIC COLD WATER PIPING
	DOMESTIC COLD WATER PIPING
	EXISTING DOMESTIC HOT WATER PIPING
	DOMESTIC HOT WATER PIPING
	EXISTING DOMESTIC HOT WATER RETURN PIPING
	DOMESTIC HOT WATER RETURN PIPING
EX.G	EXISTING GAS PIPING
G	LOW PRESSURE GAS PIPING
HPG	HIGH PRESSURE GAS PIPING
	EXISTING PIPING/EQUIPMENT TO BE REMOVED
SSSS	HEAT TRACING ON PIPE
	CONTINUATION OF DUCTWORK/PIPING
	GAS COCK VALVE
FD	FLOOR DRAIN/FUNNEL FLOOR DRAIN
HD	HUB DRAIN
AD	AREA DRAIN
RD	ROOF DRAIN
CB	CATCH BASIN
CO	BURIED CLEANOUT
CO	EXPOSED CLEANOUT
	SANITARY 'P' TRAP
	PIPE UP
	PIPE DOWN
VTR	VENT THROUGH ROOF
CAP	CAP ON PIPING
	DRAWING NOTE
	ISOLATION VALVE
	PIPING DROPDOWN
	WATER METER

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
	UPRIGHT SPRINKLER HEAD
	PENDENT SPRINKLER HEAD
	RECESSED PENDENT SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	FIRE EXTINGUISHER
FHC	FIRE HOSE CABINET
	DRAWING NOTE
SPR	SPRINKLER PIPING
F	FIRE STANDPIPE



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
02	ISSUED FOR PERMIT	24/05/20	SW
03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

NO.	REVISIONS	DATE	BY

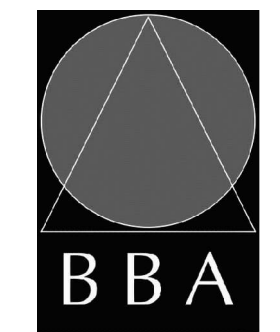


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DRAWING:
MECHANICAL LEGEND



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PROJECT NO: **23-108** DRAWING NO: **M-1.1**

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURES SPECIFICATION	PIPE CONNECTION				
		TRAP	COLD WATER	HOT WATER	DRAIN	VENT
WC1	FLOOR MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - EXPOSED - MANUAL - BARRIER FREE AMERICAN STANDARD 3461001.020 TOILET - MADERA FLOWISE, TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL. CENTOCO 500STSCCFE-001 SEAT - FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, HEAVY-DUTY, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL. SLOAN ROYAL 111-YO-1.28 FLUSH VALVE - ROYAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). FRANKE COMMERCIAL CM-16104 - BACK REST SUPPORT, TYPE 304 STAINLESS STEEL, CONCEALED ANCHORING. PROVIDE TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	75#	25#	-	75#	38#
WC2	FLOOR MOUNTED TOILET - VITREOUS CHINA - FOR FLUSHOMETER - EXPOSED - MANUAL AMERICAN STANDARD 3451001.020 TOILET - MADERA FLOWISE, TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, TOILET OPERATES IN THE RANGE OF 4.2 TO 6.0 LPF (1.1 - 1.6 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ELONGATED BOWL. CENTOCO 500STSCCFE-001 SEAT - FAST-N-LOCK, FOR ELONGATED BOWL, OPEN FRONT, HEAVY-DUTY, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, PLASTIC COMMERCIAL CHECK HINGES, WHITE FINISH, FAST-N-LOCK MOUNTING SYSTEM. THE BOLT AND NUT MATERIAL SHALL BE STAINLESS STEEL. SLOAN ROYAL 111-YO-1.28 FLUSH VALVE - ROYAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 4.8 LPF (1.28 GPF). PROVIDE TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	75#	25#	-	75#	38#
WC3	FLOOR MOUNTED TOILET - VITREOUS CHINA - TANK TYPE - MANUAL AMERICAN STANDARD 215D004.020 TOILET - CADET PRO, TANK TYPE TOILET, FLOOR MOUNTED WITH FLOOR OUTLET, LOW CONSUMPTION 6.0 LPF (1.6 GPF), WHITE FINISH VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, ROUND FRONT BOWL, MANUAL, POLISHED CHROME LEFT-HAND TRIP LEVER (7381231-200.0020A). CENTOCO 300CC-001 SEAT - FOR ROUND BOWL, OPEN FRONT, HEAVY-DUTY, FOR COMMERCIAL APPLICATIONS, POLYPROPYLENE, TOILET SEAT, LESS SEAT COVER, STAINLESS STEEL SELF-SUSTAINING HINGE, SPECIFIED IN WHITE FINISH, INCLUDES PLASTIC HARDWARE, DIMENSIONS: 25 MM (1") HIGH, 413 MM (16-1/4") LONG, 368 MM (14-1/2") WIDE. PROVIDE HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS, ESCUTCHEON PLATE, TOILET FLANGE AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	75#	12#	-	75#	38#
U1	WALL HUNG URINAL - VITREOUS CHINA - FOR FLUSHOMETER - EXPOSED - MANUAL AMERICAN STANDARD 6590001.020 URINAL - WASHROOM FLOWISE, WALL-HUNG, TOP SPUD, VITREOUS CHINA, FLUSH VALVE URINAL, WHITE FINISH, URINAL OPERATES IN THE RANGE OF 0.5 TO 3.8 LPF (0.125 - 1.0 GPF), 19 MM (3/4") SPUD CONNECTION, POWERFUL WASHDOWN FLUSH ACTION, CHROME-PLATED NON-METALLIC STRAINER. SLOAN ROYAL 186-0.125 FLUSH VALVE - ROYAL MANUAL EXPOSED WATER CLOSET FLUSHOMETER, CONSTRUCTED FROM SEMI-RED BRASS, POLISHED CHROME FINISH, HIGH EFFICIENCY 0.5 LPF (0.125 GPF). WATTS CA-321 CARRIER - EPOXY COATED, URINAL CARRIER, WALL PLATE. WATTS CO-380-RD CLEANOUT - NON-ADJUSTABLE WALL CLEANOUT, CAST IRON, ROUND STAINLESS STEEL ACCESS COVER, NO-HUB OUTLET. PROVIDE CLEANOUT, COUPLING AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	50#	19#	-	50#	38#
L1	WALL MOUNT BASIN - LEVER HANDLE METERING FAUCET - MANUAL - BARRIER FREE AMERICAN STANDARD 0955001EC.020 0058020EC.020 BASIN - MURRO, WALL-HUNG LAVATORY, VITREOUS CHINA, EVERCLEAN ANTIMICROBIAL SURFACE, WHITE FINISH, VITREOUS CHINA SHROUD WITH EVERCLEAN. DELTA 871905 METERING FAUCET - LEVER HANDLE METERING FAUCET, SINGLE HOLE MOUNT, HEAVY-DUTY CAST BRASS CONSTRUCTION, POLISHED CHROME PLATED FINISH, VANDAL RESISTANT ADA LEVER HANDLE, DELTA METERING SLOW CLOSE CARTRIDGE, TWO BODY MOUNTED STAINLESS STEEL ANTI-ROTATION LOCKING PINS, VANDAL RESISTANT NON-AERATING SPRAY, 1.32 LPM (0.35 GPM) OUTLET. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	32#	12#	12#	32#	32#
TL1	WALL MOUNT WASH BASIN - THREE USER - LEVER HANDLE METERING FAUCET BRADLEY LVGD3 VERGE WASH BASIN - WALL HUNG BASIN, THREE STATION, CENTERSHANKS ON 30" CENTERS, ELONGATED BASIN CONSTRUCTED OF EVERO CLASSIC NATURAL QUARTZ SURFACE, FAUCET CENTERSHANK DRILLING ONLY, THERMOSTATIC MIXING ASSEMBLY, NO SOAP DISPENSER/NO DRILLING, STAINLESS STEEL ACCESS PANEL, SINGLE CHROME PLATED P-TRAP, HEAVY GAUGE STAINLESS STEEL SUPPORT FRAME MOUNTED TO WALL, OVERALL DIMENSIONS: 2298 MM (90-7/16") LONG, 572 MM (22-1/2") WIDE, 476 MM (18-3/4") HIGH. DELTA 871905 METERING FAUCET - LEVER HANDLE METERING FAUCET, SINGLE HOLE MOUNT, HEAVY-DUTY CAST BRASS CONSTRUCTION, POLISHED CHROME PLATED FINISH, VANDAL RESISTANT ADA LEVER HANDLE, DELTA METERING SLOW CLOSE CARTRIDGE, TWO BODY MOUNTED STAINLESS STEEL ANTI-ROTATION LOCKING PINS, VANDAL RESISTANT NON-AERATING SPRAY, 1.32 LPM (0.35 GPM) OUTLET.	32#	12#	12#	32#	32#
S1	WALL MOUNT HAND-WASH SINK - SINGLE HANDLE FAUCET - MANUAL FRANKE COMMERCIAL WH1616-3-2 BASIN - WALL-HUNG LAVATORY, TYPE 304 STAINLESS STEEL, POLISHED TO #4 SATIN FINISH, 102 MM (4") CENTERSET, LESS OVERFLOW, RADIUS COVED BOWL CORNERS, 203 MM (8") HIGH BACKSPASH, 38 MM (1-1/2") DUPLEX WASTE WITH RUBBER STOPPER, FOR WALL PLATE CARRIER, ONE PIECE WALL HANGER, OVERALL DIMENSIONS: 432 MM (17") LONG, 413 MM (16-1/4") WIDE, 356 MM (14") HIGH, BOWL DIMENSIONS: 356 MM (14") LONG, 305 MM (12") WIDE, 152 MM (6") DEEP. CHICAGO FAUCETS 521-CN2A-E7805-SUKARCP FAUCET - WALL-HUNG, MANUAL, TWO HANDLES, SINK FAUCET, POLISHED CHROME FINISH, 102 MM (4") CENTERSET, EAST BRASS CONSTRUCTION, 1.9 LPM (0.5 GPM) MAXIMUM FLOWRATE, VANDAL-RESISTANT PRESSURE COMPENSATING NON-AERATED SPRAY OUTLET, RIGID/SWING GOOSENECK SPOUT, 133 MM (5-1/4") SPOUT REACH, 254 MM (10") HIGH, LEVER HANDLE, 13 MM (1/2") NPSM SUPPLY INLET. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	32#	12#	12#	32#	32#
S2	SINGLE BOWL SINK - DROP-IN - TWO HANDLE FAUCET - MANUAL FRANKE COMMERCIAL LBS680BP-1-3 SINK - COUNTER MOUNTED, SINGLE COMPARTMENT SINK, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, 203 MM (8") CENTERSET, WITH OVERALL DIMENSION 508 MM (20") LONG, 521 MM (20-1/2") WIDE, 203 MM (8") HIGH. AMERICAN STANDARD 6409170.002 FAUCET - MONTERREY, MANUAL, TWO HANDLES, SINK FAUCET. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	38#	12#	12#	38#	32#
S3	SINGLE BOWL SINK - DROP-IN - SINGLE HANDLE FAUCET - MANUAL FRANKE COMMERCIAL LBS4010P-1-1 SINK - COUNTER MOUNTED, SINGLE COMPARTMENT SINK, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, SINGLE HOLE CENTERSET, WITH OVERALL DIMENSION 562 MM (22-1/8") LONG, 478 MM (18-13/16") WIDE, 254 MM (10") HIGH. GROHE 32865003 FAUCET - CONCETTO, MANUAL, SINGLE HANDLE, SINK FAUCET. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	38#	12#	12#	38#	32#
S4	TRIPLE BOWL SINK - DROP-IN - SINGLE HANDLE FAUCET - MANUAL FRANKE COMMERCIAL LBT6410PCB-1-1 SINK - COUNTER MOUNTED, TRIPLE COMPARTMENT SINK, CONSTRUCTED FROM 18 GAUGE TYPE 304 STAINLESS STEEL, SINGLE HOLE CENTERSET, WITH OVERALL DIMENSION 1178 MM (46-3/8") LONG, 522 MM (20-9/16") WIDE, 254 MM (10") HIGH. GROHE 32865003 FAUCET - CONCETTO, MANUAL, SINGLE HANDLE, SINK FAUCET. PROVIDE TWO FAUCETS AT SINK. LAWLER TMM-1070-87500 MIXING VALVE - POINT OF USE MECHANICAL MIXING VALVE WITH THERMOSTATIC LIMIT STOP, MECHANICAL MIXING VALVE, 1.8 LPM (0.5 GPM) TEMPERED FLOWRATE @ 5 PSI PRESSURE DROP, 8 LPM (2.1 GPM) FLOWRATE @ 45 PSI. PROVIDE FIXTURE DRAIN, P-TRAP, HEAVY DUTY LOOSE KEY ANGLE STOPS, FLEXIBLE RISERS AND ALL OTHER ACCESSORIES REQUIRED FOR A FULL AND COMPLETE INSTALLATION.	38#	12#	12#	38#	32#
MS1	MOP SINK STERN WILLIAMS SB-900-T-15-VB-T-35-T-40-BP SINK - FLOOR MOUNTED, SINGLE COMPARTMENT SINK, CONSTRUCTED FROM PRECAST TERRAZZO, WITH OVERALL DIMENSION 610 MM (24") LONG, 610 MM (24") WIDE, 305 MM (12") HIGH, 78 MM (3") PIPE SIZE, FLAT STAINLESS STEEL STRAINER, WITHOUT TILING FLANGE, WITH STAINLESS STEEL CAP, POLISHED CHROME FINISH MOP SERVICE SINK FITTING WITH VACUUM BREAKER, HOSE AND WALL HOOK, MOP HANGER, SPLASH CATCHER.	75#	12#	12#	75#	38#
EW1	WALL MOUNT EYEWASH STATION GUARDIAN C1814-G3600LF EMERGENCY EQUIPMENT - WALL-HUNG, EYE WASH, CONSTRUCTED FROM TYPE 304 BRUSHED STAINLESS STEEL FINISH, THERMOSTATIC MIXING VALVE BLENDS HOT AND COLD WATER, 283 MM (11-1/8") Ø BOWL SIZE, CORROSION RESISTANT POWDER COATED FINISH FINISH, TWO OS-PLUS SPRAY HEADS WITH FLIP TOP DUST COVER EACH, 32 MM (1-1/4") Ø NPT FEMALE OUTLET.	-	12#	12#	32#	-

NOTES:
1. REFER TO ARCHITECT/INTERIOR DESIGNER'S DRAWINGS FOR SPECIFICATIONS OF PLUMBING FIXTURES NOT LISTED ON MECHANICAL DRAWINGS.

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURES SPECIFICATION	PIPE CONNECTION				
		TRAP	COLD WATER	HOT WATER	DRAIN	VENT
FD	FLOOR DRAIN WATTS FD-100NH-C-A5-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE ROUND 6 MM (1/4") THICK TOP, NO-HUB OUTLET, 127 MM (5") DIAMETER NICKEL BRONZE STRAINER, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES.	75#	-	-	75#	38#
FFD	FUNNEL FLOOR DRAIN WATTS FD-100NH-EG-1 FLOOR DRAIN - EPOXY COATED CAST IRON, FLOOR DRAIN, ADJUSTABLE HEEL PROOF NICKEL BRONZE TOP, NO-HUB OUTLET, ANCHOR FLANGE, 102 X 229 MM (4" X 9") OVAL NICKEL BRONZE FUNNEL, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, 26 CM² (4 SQ. IN.) FREE AREA.	75#	-	-	75#	38#
TSP-1	FLOW ACTIVATED TRAP SEAL PRIMER (AS REQUIRED FOR REMOTE FLOOR DRAINS) PPP_PRO1-500-DU-4 TRAP PRIMER - FLOW ACTIVATED TRAP PRIMER, C68020 LEAD FREEBRASS, 0.01 LPM (0.25 GPM) MINIMUM FLOWRATE, 1/2" FNPT (12 MM) INLET, COPPER BODY DISTRIBUTION UNIT WITH 4 - 3/8" FPT BRASS DISCHARGE FITTINGS AND 13 MM (1/2") MALE NPT COMPOSITE INLET, PRIME UP TO 4 FLOOR DRAINS, 1/2" FIP (12 MM) OUTLET. COORDINATE EXACT LOCATION ON SITE AND PROVIDE ADEQUATE ACCESS AS REQUIRED.	-	12#	-	-	-
TSP-2	ELECTRONIC TRAP SEAL PRIMING ASSEMBLY P.P.P. PIS-4 TRAP PRIMER - SURFACE MOUNTED, ELECTRONIC TRAP PRIMING ASSEMBLY, 3/4" NPT FEMALE INLET, SERVING 4 DRAINS (Ø WIDTH 14" X HEIGHT 16" CABINET), 5/8" COMP. FOR 1/2" ID COPPER LINE OUTLET, 120 VOLT 60 HZ, 2 AMP CIRCUIT BREAKER, MANUAL OVER RIDE SWITCH/TEST BUTTON, TIMER, SOLENOID VALVE. CONTRACTOR TO CONFIRM MANIFOLD SIZING GIVEN SITE CONDITIONS.	-	3/4"	-	-	-
LB	LAUNDRY BOX PPP_MM-500_PLB LAUNDRY BOX - PLASTIC LAUNDRY BOX ASSEMBLY, INTEGRAL WATER HAMMER ARRESTORS AND QUARTER TURN VALVES.	-	12#	12#	50#	-
RD-1	ROOF DRAIN - FLOW CONTROL ZURN ZCF121-DR-DP-1P - 12" [305MM] DIAMETER "CONTROL-FLO" ROOF DRAIN FOR DEAD-LEVEL ROOF CONSTRUCTION, DURABLE COATED CAST IRON BODY, COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, ALUMINUM "CONTROL-FLO" WEIR, AND POLY-DOME. "CONTROL-FLO" WEIR SHALL BE LINEAR FUNCTIONING WITH FLOW RATE OF 5 GPM [23 LPM] PER INCH OF WATER BUILDUP ABOVE DRAIN. PROLONGED RIM PROVIDING ADDITIONAL SUPPORT, DECK PLATE, ADJUSTABLE EXTENSION AND NEOPRENE GASKET.	-	-	-	-	-
RD-2	ROOF DRAIN - CONVENTIONAL ZURN ZA121-E-DP-84 - CAST IRON ROOF DRAIN WITH 305 MM (12") DIAM. BODY INCLUDING 241 MM (9 1/2") DIAM BOWL, ALUMINUM DOME, COMBINATION FLASHING CLAMP COLLAR/GRAVEL GUARD WITH 4 ANCHOR SCREWS, PROLONGED RIM PROVIDING ADDITIONAL SUPPORT, DECK PLATE, SOLID EXTENSION WITH NEOPRENE GASKET AND STAINLESS STEEL PERFORATED GRAVEL GUARD AROUND DOME.	-	-	-	-	-
NFB	NON FREEZE HOSE BIBB ZURN Z132DXL - (10" - 12" - 14") ENCASED NON-FREEZE WALL HYDRANT, REMOVABLE OPERATING KEY, BRASS BODY, COPPER CASING, ALL BRONZE INTERIOR COMPONENTS, CERAMIC DISC ROD ASSEMBLY, INTEGRAL BACKFLOW PREVENTER, DN 3/4 IN MALE IP OR SWEAT FEM. INLET, BRASS HINGED BOX WITH NICKEL BRONZE BOX. OFFERED FOR WALL THICKNESS STARTING AT 10 IN (254 MM), 12 IN (305 MM) TO 14 IN (356 MM)	-	19#	-	-	-
GI-1	GREASE INTERCEPTOR WATTS WD-GSA-125-2 GREASE INTERCEPTOR - EPOXY COATED STEEL, GREASE INTERCEPTOR FOR RECESSED INSTALLATION, 50 LBS GREASE CAPACITY, 95 LPM (25 GPM) FLOW RATE, NO HUB (M), 2" STANDARD INLET AND OUTLET SIZE, SECURED AND GASKETED NON SLIP COVER, PROVIDE EXTENSION AS REQUIRED TO SUIT SITE CONDITIONS. GREASE INTERCEPTOR SIZE CALCULATION: TRIPLE POT SINK = 21.8 GPM TOTAL = 21.8 GPM FLOW RATE THROUGH GREASE INTERCEPTOR WITH 60 SECOND DRAIN DOWN TIME: 21.8 GPM	-	-	-	50#	38#

NOTES:
1. REFER TO ARCHITECT/INTERIOR DESIGNER'S DRAWINGS FOR SPECIFICATIONS OF PLUMBING FIXTURES NOT LISTED ON MECHANICAL DRAWINGS.

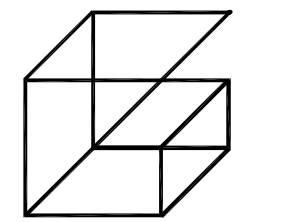
VAV TERMINAL UNIT SCHEDULE										
TAG	MANU.	MODEL NO.	INLET SIZE DIA. (MM)	MAX (L/S)	MIN (L/S)	CONTROLS TYPE	REHEAT COIL			REMARKS
							AIRFLOW (L/S)	HEAT OUTPUT (KW)	FLOW (L/S)	
VAV-1	EH PRICE	SDV-5000	200#	236	118	DIGITAL	118	2.4	0.051	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-2	EH PRICE	SDV-5000	150#	94	47	DIGITAL	47	1.0	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-3	EH PRICE	SDV-5000	150#	97	49	DIGITAL	49	1.0	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-4	EH PRICE	SDV-5000	150#	144	72	DIGITAL	72	1.5	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-5	EH PRICE	SDV-5000	200#	188	94	DIGITAL	94	1.9	0.041	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-6	EH PRICE	SDV-5000	150#	166	83	DIGITAL	83	1.7	0.036	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-7	EH PRICE	SDV-5000	150#	104	52	DIGITAL	52	1.0	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-8	EH PRICE	SDV-5000	200#	198	99	DIGITAL	99	2.0	0.043	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-9	EH PRICE	SDV-5000	200#	291	146	DIGITAL	146	2.9	0.063	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-10	EH PRICE	SDV-5000	250#	416	208	DIGITAL	208	4.2	0.090	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-11	EH PRICE	SDV-5000	250#	384	192	DIGITAL	192	3.9	0.083	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-12	EH PRICE	SDV-5000	150#	97	47	DIGITAL	65	1.3	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-13	EH PRICE	SDV-5000	150#	120	60	DIGITAL	60	1.2	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-14	EH PRICE	SDV-5000	150#	137	69	DIGITAL	69	1.4	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.
VAV-15	EH PRICE	SDV-5000	150#	142	71	DIGITAL	71	1.4	0.032	VAV TERMINAL UNIT C/W 3'-0" SOUND ATTENUATOR AND HYDRONIC REHEAT COIL. CONTROLLER PROVIDED BY CONTROLS CONTRACTOR.

NOTES:
1. COORDINATE ALL REQUIRED POWER AND LOCATIONS WITH DV.26.
2. INCLUDE FOR ALL WORK ASSOCIATED WITH CONNECTION TO BAS SYSTEM.
3. CONTROLS WORK SHALL BE CARRIED OUT BY THE BASE BUILDING CONTROLS CONTRACTOR AT THE EXPENSE OF DV.23.
4. ALL TERMINAL UNITS SHALL BE PROVIDED WITH FACTORY-SUPPLIED 3'-0" SOUND ATTENUATOR, UNLESS NOTED OTHERWISE.



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
02	ISSUED FOR PERMIT	24/05/30	SW
03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

NO.	REVISIONS	DATE	BY



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This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.
The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.

PROJECT:
GARDARIE LA FARANDOLE
Ecole Elementaire Pierre Elliot Trudeau
85 Grace Street Toronto

DRAWING:
MECHANICAL SCHEDULES I

		DESIGN BY: JH	DOC CONTROL DATE:
		DRAWN BY: SW	% COMPLETE:
Architects Engineers Project Managers		CHECKED BY: RG	INITIAL:
201-250 Water Street Whitby Ontario L1N 0G5		DATE: FEB 2023	
Tel: (905) 888-6282 Fax: (905) 888-6258 e-mail: bba@bba-engineering.com		SCALE: AS NOTED	
		FILE:	
PROJECT NO:	DRAWING NO:		
23-108	M-1.2		

NEW ROOFTOP UNIT SCHEDULE																										
REF.	MANU.	MODEL	NOM. TONS	AIR VOLUME (L/S)	OUTDOOR AIR VOLUME (L/S)	FILTER			DX COOLING COIL				GAS HEAT SECTION				SUPPLY FAN			POWERED EXHAUST		VPHHZ	MCA (A)	MROPD (A)	WEIGHT (KG)	REMARKS
						FILTER RACK	FACE AREA (FT2)	PRESSURE DROP (IN.H2O)	TOTAL CAPACITY (BTU/HR)	SENSIBLE CAPACITY (BTU/HR)	EDBWB (°C)	LDLWB (°C)	INPUT (MBH)	OUTPUT (MBH)	EDLDB (°C)	MODULATION	AIRFLOW (L/S)	E.S.P. (IN.H2O)	HP	AIRFLOW (L/S)	HP					
RTU-1	DAIKIN	DPSC16B	16.0	2831	1026	2" MERV 13	27.0	0.09	201380	146142	26.9/19.4	13.9/13.3	450	360	7.2/38.3	12:1 TURNDOWN	2831	2.8"	10.0	1888	3.0	208/3/60	114.8	150	1746	C/W FACTORY SUPPLIED 18" ROOF CURB, STAINLESS STEEL HEAT EXCHANGER, DUAL ENTHALPY ECONOMIZER, POWER EXHAUST, CONVENIENCE OUTLET, AND DISCONNECT SWITCH. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR HORIZONTAL DUCTED APPLICATION. INTERLOCK WITH EXISTING BAS.

ROOFTOP UNIT NOTES:

- ALL UNITS TO COME WITH MANUFACTURER 1 YEAR PLANNED SERVICE AGREEMENT AND 1 YEAR LABOUR WARRANTY C/W NECESSARY SITE VISITS.
- DAIKIN TO PROVIDE START-UP AND JOBSITE SPECIFIC CONDITIONS AS PER PLANS.
- UNITS TO BE PROVIDED BY DAIKIN, STEVE CUKROVANI, (647) 293-8103, steve.cukrovani@hts.com

SUPERVISED VALVE SCHEDULE		
ZONE	DESCRIPTION	LOCATION
SV-1	INCOMING WATER MAIN ISOLATION	BASEMENT SPRINKLER ROOM
SV-2	WATER METER INLET	BASEMENT SPRINKLER ROOM
SV-3	WATER METER OUTLET	BASEMENT SPRINKLER ROOM
SV-4	WATER METER BYPASS	BASEMENT SPRINKLER ROOM
SV-5	BACKFLOW INLET	BASEMENT SPRINKLER ROOM
SV-6	BACKFLOW OUTLET	BASEMENT SPRINKLER ROOM
SV-7	FIRE PUMP SUCTION	BASEMENT SPRINKLER ROOM
SV-8	FIRE PUMP DISCHARGE	BASEMENT SPRINKLER ROOM
SV-9	FIRE PUMP BYPASS	BASEMENT SPRINKLER ROOM
SV-10	WET SPRINKLER ISOLATION	BASEMENT SPRINKLER ROOM

FAN SCHEDULE														
TAG	MANU.	MODEL	LOCATION	SERVICE	CAP. (L/S)	ESP (IN.WG.)	RPM	DRIVE	TYPE	MOTOR (W)	VPHHZ	STARTER	WEIGHT (KG)	REMARKS
EF-1 EF-4 EF-6	CARNES	VDD0151	WASHROOM	SANITARY EXHAUST	47	0.25"	920	DIRECT	INLINE CABINET	100	120/1/60	ON/OFF SWITCH	-	INLINE CABINET EXHAUST FAN C/W BACKDRAFT DAMPER, SUPPORTS, HANGERS, VIBRATION ISOLATION, AND FLEXIBLE INLET AND OUTLET CONNECTIONS.
EF-2	CARNES	VEDK06	WASHROOM	SANITARY EXHAUST	94	0.5"	1500	DIRECT	DOWNBLAST ROOF FAN	93	120/1/60	BAS	40	DIRECT DRIVE ROOF MOUNTED DOWNBLAST SPUN ALUMINUM EXHAUST FAN C/W BACKDRAFT DAMPER, BIRDSCREEN, VIBRATION ISOLATION, AND PRE-FABRICATED ROOF CURB.
EF-3	CARNES	VEDK08	WASHROOM	SANITARY EXHAUST	188	0.5"	1400	DIRECT	DOWNBLAST ROOF FAN	93	120/1/60	BAS	40	DIRECT DRIVE ROOF MOUNTED DOWNBLAST SPUN ALUMINUM EXHAUST FAN C/W BACKDRAFT DAMPER, BIRDSCREEN, VIBRATION ISOLATION, AND PRE-FABRICATED ROOF CURB.
EF-5	CARNES	VDD0251	IT/SERVER	GENERAL EXHAUST	94	0.25"	1005	DIRECT	INLINE CABINET	166	120/1/60	REVERSE ACTING THERMOSTAT	-	INLINE CABINET EXHAUST FAN C/W BACKDRAFT DAMPER, SUPPORTS, HANGERS, VIBRATION ISOLATION, AND FLEXIBLE INLET AND OUTLET CONNECTIONS.

NOTES:

- ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.
- ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.

FLOW SWITCH SCHEDULE		
ZONE	DESCRIPTION	LOCATION
FS-1	STANDPIPE FLOW SWITCH	BASEMENT SPRINKLER ROOM
FS-2	WET SPRINKLER FLOW SWITCH	BASEMENT SPRINKLER ROOM
PS-1	STANDPIPE PRESSURE SWITCH	BASEMENT SPRINKLER ROOM

HYDRONIC HEATER SCHEDULE																			
REF.	TYPE	MANU.	HEATER MODEL	CONFIG.	ROWS	ENCLOSURE MODEL	HEATING OUTPUT DENSITY @ 18°C AIR TEMP. (KW/M)	HEATING WATER			RUNOUT SIZE (MM)		TOTAL CAPACITY (KW)	NOMINAL AIR FLOW (L/S)	VPHHZ	MOTOR POWER (W)	MOTOR CURRENT (A)	WEIGHT (LBS)	REMARKS
								FLOW RATE (L/S)	EWT (°C)	LWT (°C)	SUPPLY	RETURN							
A	FIN-TUBE BASEBOARD HEATER	SIGMA CORPORATION	24C075	WALL MOUNTED	1	SWE-12S	0.864	SEE FLOOR PLANS	82.2	71.1	19#	19#	SEE FLOOR PLANS	-	-	-	-	-	FIN-TUBE SHALL BE 19# C/W 70MMX102MM ALUMINUM FINNS (48 FINNS/FT).
B	CONVECTOR UNIT	SIGMA CORPORATION	CWF-6W-7 2L-26H	WALL TYPE	-	-	-	SEE FLOOR PLANS	82.2	71.1	19#	19#	3.33	-	-	-	-	-	WALL TYPE CONVECTOR UNIT, STEEL CONSTRUCTION.
C	CABINET FORCE FLOW HEATER	SIGMA CORPORATION	SFF-02	SURFACE MOUNT	-	-	-	SEE FLOOR PLANS	82.2	71.1	19#	19#	SEE FLOOR PLANS	94	120/1/60	75	1.9	75.0	SURFACE MOUNTED C/W BUILT-IN THERMOSTAT, FRONT TOP SUPPLY AND FRONT BOTTOM RETURN ARRANGEMENT.

NOTES:

- REFER TO MECHANICAL PLANS AND DETAILS FOR LOCATION AND PIPING CONNECTIONS.
- ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.

PUMP SCHEDULE										
TAG	MANU.	MODEL	SERVICE	LOCATION	FLOW (L/S)	HEAD (M)	MOTOR (HP)	RPM	VPHHZ	REMARKS
P-1	ARMSTRONG	SERIES DESIGN ENVELOPE SENSORLESS 4300 1205-001.5	HYDRONIC HEATING	BOILER ROOM	1.77	18.3	1.5	-	575/3/60	LOW PRESSURE DUCTILE IRON CONSTRUCTION FOR NON-POTABLE FLUIDS. PUMP SHALL BE C/W STRAINER, CHECK VALVE AND SENSORLESS VFD.
P-2	GRUNDFOS	ALPHA 1	DHW RECIRC	HWT A1-109A	0.16	3.0	5-45W	-	120/1/60	STAINLESS STEEL CONSTRUCTION FOR POTABLE WATER APPLICATION, 3 CONSTANT PRESSURE SETTING. INTERLOCK PUMP WITH PROGRAMMABLE DIGITAL TIMER. SET UP OPERATION HOURS TO MATCH NORMAL BUSINESS OPERATION HOURS.

NOTES:

- ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.26.
- ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.
- INSTALLATION SHALL BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ELECTRIC HEATER SCHEDULE								
TAG	MANU.	MODEL	KW	TYPE	VPHHZ	COLOUR	WEIGHT (KG)	REMARKS
BBH-1	STELPRO	BA0501W	0.5	SURFACE MOUNTED	120/1/60	-	-	SURFACE MOUNTED BASEBOARD HEATER C/W INTEGRAL THERMOSTAT.
BBH-2	STELPRO	BA1501W	1.5	SURFACE MOUNTED	120/1/60	-	-	SURFACE MOUNTED BASEBOARD HEATER. INTERLOCK WITH VAV THERMOSTAT PROVIDED BY CONTROLS CONTRACTOR.
BBH-3	STELPRO	BA1251W	1.25	SURFACE MOUNTED	120/1/60	-	-	SURFACE MOUNTED BASEBOARD HEATER. INTERLOCK WITH VAV THERMOSTAT PROVIDED BY CONTROLS CONTRACTOR.
BBH-4	STELPRO	BA1001W	1.0	SURFACE MOUNTED	120/1/60	-	-	SURFACE MOUNTED BASEBOARD HEATER C/W INTEGRAL THERMOSTAT.

NOTES:

- ELECTRICAL HEATERS TO BE SUPPLIED BY DIV.23 AND INSTALLED BY DIV.26.
- CONFIRM ALL COLOUR FINISHES WITH ARCHITECT/INTERIOR DESIGNER.

DHW HEATER SCHEDULE									
TAG	MANU.	MODEL	CAPACITY (L)	TYPE	INPUT (MBH)	RECOVERY RATE (USGAL/H)	VPHHZ	WEIGHT (KG)	REMARKS
HWT-1	AO SMITH	BTH-120	227	NATURAL GAS	120	138 @ ΔT=100°F	120/1/60	435	HIGH EFFICIENCY GAS-FIRED HOT WATER TANK C/W MODULATING BURNERS, FACTORY SUPPLIED CONCENTRIC VERTICAL DIRECT VENT TERMINATION KIT AND ACID NEUTRALIZATION KIT. INSTALL IN STRICT ACCORDANCE WITH CAN/CSA B149 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

NOTES:

- TERMINATE RELIEF DRAIN(S) INDIRECTLY WHERE NOTED ON DRAWINGS.

EXPANSION TANK SCHEDULE						
TAG	MANU.	MODEL	ACCEPTANCE VOL (GAL.)	TOTAL VOL (GAL.)	PRECHARGE PRESSURE (PSI)	REMARKS
EXT-1	WATTS	DETA-12	5.0	2.3	MATCH INCOMING PRESSURE	ASME POTABLE WATER EXPANSION TANK. PROVIDE SUPPORTS AND HANGERS AS REQUIRED. SET PRECHARGE PRESSURE TO MATCH INCOMING DOW PRESSURE.

NOTES:

- EXACT LOCATION OF EXPANSION TANK(S) TO BE COORDINATED ON SITE
- PRE-CHARGE PRESSURE TO MATCH INCOMING PRESSURE

DIFFUSER SCHEDULE			
TAG	MAKE/MODEL	FINISH	REMARKS
A	EH PRICE MODEL SCD 24/24 SQUARE S/A DIFFUSER	-	3 CONE, STEEL CONSTRUCTION FOR T-BAR LAY-IN. SIZE NECK AS INDICATED ON DRAWING.
B	EH PRICE MODEL 80 EGG CRATE GRILLE	-	1/2"x1/2"x1/2" ALUMINUM GRID CORE, CORE ONLY FOR T-BAR CEILING INSTALLATION.
C	EH PRICE MODEL 80 EGG CRATE GRILLE	-	1/2"x1/2"x1/2" ALUMINUM GRID CORE, FRAME FOR DRYWALL CEILING/DUCT MOUNT INSTALLATION C/W OPPOSED BLADE DAMPER.
D	EH PRICE MODEL 530 LOUVERED FACE RETURN GRILLE	-	STEEL CONSTRUCTION, 45° DEFLECTION, 3/4" BLADE SPACING, FOR DUCT MOUNTING C/W OPPOSED BLADE DAMPER. SIZE AS INDICATED ON DRAWINGS.
E	EH PRICE MODEL ATG1 DOOR GRILLE	-	ALUMINUM CONSTRUCTION, SIGHT-PROOF DOOR GRILLE C/W BF FLAT BORDER BOTH SIDES. SIZE AS INDICATED ON DRAWINGS.

NOTES:

- SIZE ALL GRILLES, DIFFUSERS, ETC. AS PER MECHANICAL DRAWINGS.
- CONFIRM ALL FINISHES WITH ARCHITECT/INTERIOR DESIGNER.

SILENCER SCHEDULE																		
TAG	MANU.	MODEL	SERVICE	FLOW (L/S)	VELOCITY (M/S)	TOTAL SIZE			MAX PD (IN.WC)	ATTENUATION (DB)							REMARKS	
						WIDTH (MM)	HEIGHT (MM)	LENGTH (MM)		63	125	250	500	1000	2000	4000		8000
SL-1	KINETICS NOISE CONTROL	400 KCRS-F/4.5	RTU-1 SUPPLY	2832	10	800	350	2100	0.26"	2	6	16	34	41	20	14	6	DUCT SILENCER C/W 22 GAUGE GALVANIZED STEEL CONSTRUCTION, ACOUSTICAL SPLITTERS AND SOUND ABSORBING FILL MATERIAL.
SL-2	KINETICS NOISE CONTROL	800 KCRS-F/3.5	RTU-1 SUPPLY	2832	-6	800	600	1500	0.18"	9	12	19	28	24	15	12	8	DUCT SILENCER C/W 22 GAUGE GALVANIZED STEEL CONSTRUCTION, ACOUSTICAL SPLITTERS AND SOUND ABSORBING FILL MATERIAL.

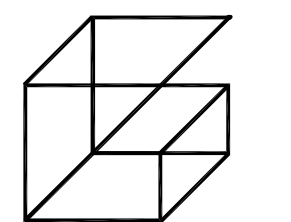
NOTES:

- INSTALL SILENCER ACCORDING TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- DUCT SILENCERS SHALL BE INSTALLED WITH AIRFLOW ARROWS IN DIRECTION OF AIRFLOW.



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
02	ISSUED FOR PERMIT	24/05/30	SW
03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

NO.	REVISIONS	DATE	BY



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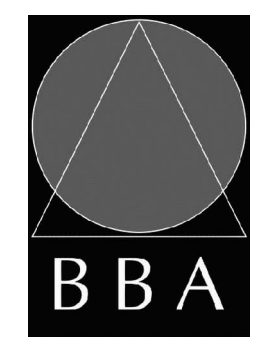
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
MECHANICAL SCHEDULES II



BARRY BRYAN ASSOCIATES
 Architects
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DESIGN BY: JH
 DRAWN BY: SW
 CHECKED BY: INTAL
 DATE: FEB 2023
 SCALE: AS NOTED
 FILE:

PROJECT NO:

23-108

DRAWING NO:

M-1.3

HEAT-TRACE SCHEDULE

SEGMENT ID	MANU.	PIPE	PIPE SIZE (MM)	INSULATION THICKNESS (MM)	CABLE SELECTED	CABLE SEGMENT LENGTH (M)	#TEES	OPERATING VOLTAGE V/PHHZ	SEGMENT MAX CURRENT (AT 28°C)	CIRCUIT BREAKER	CONTROL MODE	ALARM	REMARKS
HT-01 HT-02	NVENT RAYCHEM	STM	75	25	5XLE1-CR	1.52	0	120/1/60	1.0	15A/1P	AMBIENT	-	REFER TO NOTES BELOW.

NOTES:

- SUPPLY AND INSTALL A COMPLETE FREEZE-PROTECTION HEAT-TRACING SYSTEM CONSISTING OF CSA-LISTED SELF-REGULATING HEATING CABLE, POWER-CONNECTION AND SPLICE KITS, FASTENING ACCESSORIES, AND CONTROLS. ALL EQUIPMENT SHALL BE SUPPLIED BY ONE MANUFACTURER.
- SYSTEM BASIS OF DESIGN IS NVENT THERMAL MANAGEMENT / RAYCHEM. SCHEDULED LENGTHS ARE FOR BID PURPOSES AND SUBJECT TO REVIEW OF SITE CONDITIONS AFTER PIPING IS INSTALLED; CONFIRM FINAL SYSTEM REQUIREMENTS WITH MANUFACTURER AND COORDINATE ANY REQUISITE ELECTRICAL CHANGES WITH DIV.26.
- HEATING CABLE SHALL BE POLYOLEFIN-JACKETED SELF-REGULATING TYPE, WITH NOMINAL HEAT-OUTPUT FOR EACH PIPE SELECTED TO OFFSET PIPE HEAT-LOSS IN LOCAL CLIMATE CONDITIONS. BASIS OF DESIGN IS RAYCHEM XL-TRACE EDGE SERIES.
- SPLICING COMPONENTS (POWER-CONNECTIONS, TEES) SHALL BE RE-ENTERABLE FOR SERVICE, SHALL BE INSTALLED ABOVE THE INSULATION, AND SHALL NOT REQUIRE THE USE OF HEAT-SHRINK MATERIALS. BASIS OF DESIGN IS RAYCHEM RAYCLIC SERIES.
- CONTROLLER SHALL BE A ENERGY SAVING, AMBIENT ELECTRONIC CONTROL THERMOSTAT, ADJUSTABLE: 32°F/0°C TO 200°F/93°C; 100 TO 277 V WITH DIRECT SWITCHING OF HEATING CABLES AT MAXIMUM CURRENT 30A. HOUSED IN NEMA 4X ENCLOSURE, PIPE MOUNTING (RAYCHEM FTC-PSK PIPE STAND KIT) WITH DIGITAL DISPLAY; SHOWS MEASURED TEMPERATURE, SET POINT TEMPERATURE, AND ALARM CONDITIONS. BASIS OF DESIGN IS RAYCHEM EDW-GF SERIES.
- INSTALL ALL EQUIPMENT AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND RETAIN THE SERVICES OF THE MANUFACTURER FOR ONSITE TESTING AND COMMISSIONING. FINAL INSPECTION AND SYSTEM STARTUP REPORT SHALL BE PROVIDED WITH PROJECT CLOSEOUT DOCUMENTATION.

KITCHEN HOOD SCHEDULE

TAG	MANU.	MODEL	FUNCTION	LENGTH (MM)	TOTAL EXHAUST CAPACITY (L/S)	S.P. (IN.W.C)	EXHAUST DUCT COLLARS		WEIGHT (KG)	MOUNTING ARRANGEMENT	REMARKS
							QTY	DIMENSIONS (MM)			
H-1	FAST KITCHEN HOODS	SSH	GREASE REMOVAL	1050	340	0.6"	1	250x200	59	WALL MOUNTED CANOPY	ULC LISTED KITCHEN EXHAUST HOOD C/W STAINLESS STEEL GREASE COLLECTOR, BAFFLE FILTERS, HANGER BRACKETS, INCANDESCENT LIGHTS AND TEMPERATURE SENSOR. MAINTAIN CLEARANCES IN ACCORDANCE WITH THE LATEST EDITION OF NFPA-96. REFER TO FAST KITCHEN HOODS DRAWINGS FOR DETAILS.

NOTES:

- ALL UNITS TO COME WITH MANUFACTURER 1 YEAR PLANNED SERVICE AGREEMENT AND 1 YEAR LABOUR WARRANTY C/W NECESSARY SITE VISITS.
- FAST KITCHEN HOODS TO PROVIDE START-UP AND CALIBRATION AS REQUIRED.
- PROVIDE ULC LISTED (UL 300) WET CHEMICAL FIRE SUPPRESSION SYSTEM INCLUDING AGENT TANK REGULATED RELEASE MECHANISM, MANUAL RELEASE MECHANISM AND DOUBLE CONTACT MICRO-SWITCH. SYSTEM SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF NFPA-17A.

KITCHEN FAN SCHEDULE

TAG	MANU.	MODEL	LOCATION	SERVICE	CAP. (L/S)	ESP (IN.W.G.)	RPM	DRIVE	TYPE	MOTOR (HP)	V/PHHZ	STARTER	WEIGHT (KG)	REMARKS
KEF-1	S&P	STXBHPRHUL15-1/2	ROOF	KITCHEN EXHAUST	340	1.0"	1215	BELT DRIVE	CENTRIFUGAL ROOF EXHAUSTER	1/2	208/3/60	REMOTE PANEL	72	BELT DRIVE ROOF MOUNTED UPBLAST CENTRIFUGAL KITCHEN EXHAUST FAN C/W VENTED ROOF CURB, GREASE CONTAINER AND HINGE KIT.
SUP-1	CANARM	DELHI 9209	ROOF	KITCHEN MAKE-UP	293	0.5"	978	BELT DRIVE	INLINE CABINET	1/4	120/1/60	REMOTE PANEL	28	BELT DRIVE INLINE CABINET SUPPLY FAN C/W DISCONNECT SWITCH, INLET HOOD ASSEMBLY WITH MESH FILTERS AND SPRING VIBRATION ISOLATION.

NOTES:

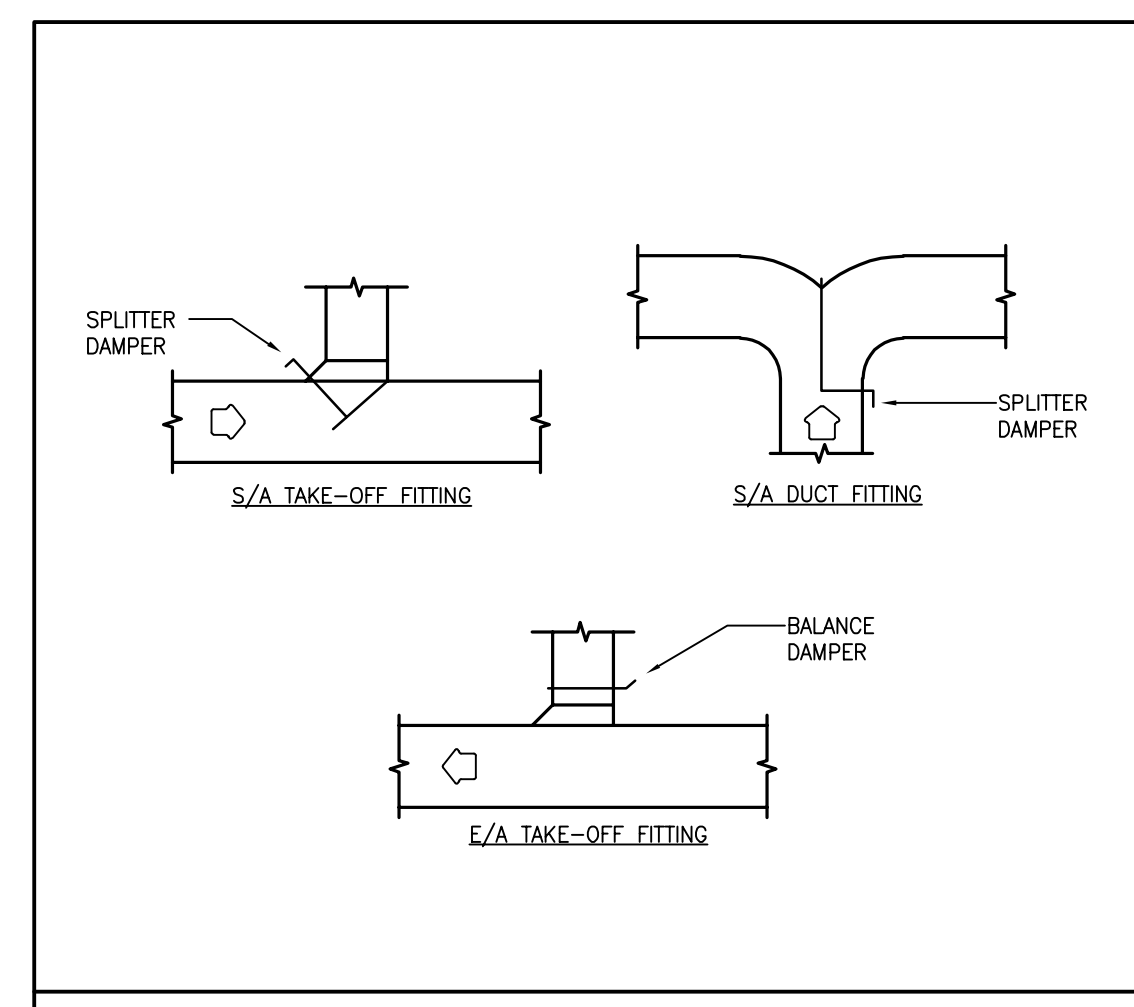
- ALL MOTORS, STARTERS, CONTACTORS, DISCONNECT SWITCHES AND CONTROL DEVICES SHALL BE PROVIDED BY DIV.23 AND INSTALLED BY DIV.23.
- ALL LOW VOLTAGE WIRING TO BE PROVIDED BY DIV.23.

ELECTRIC DUCT HEATER SCHEDULE

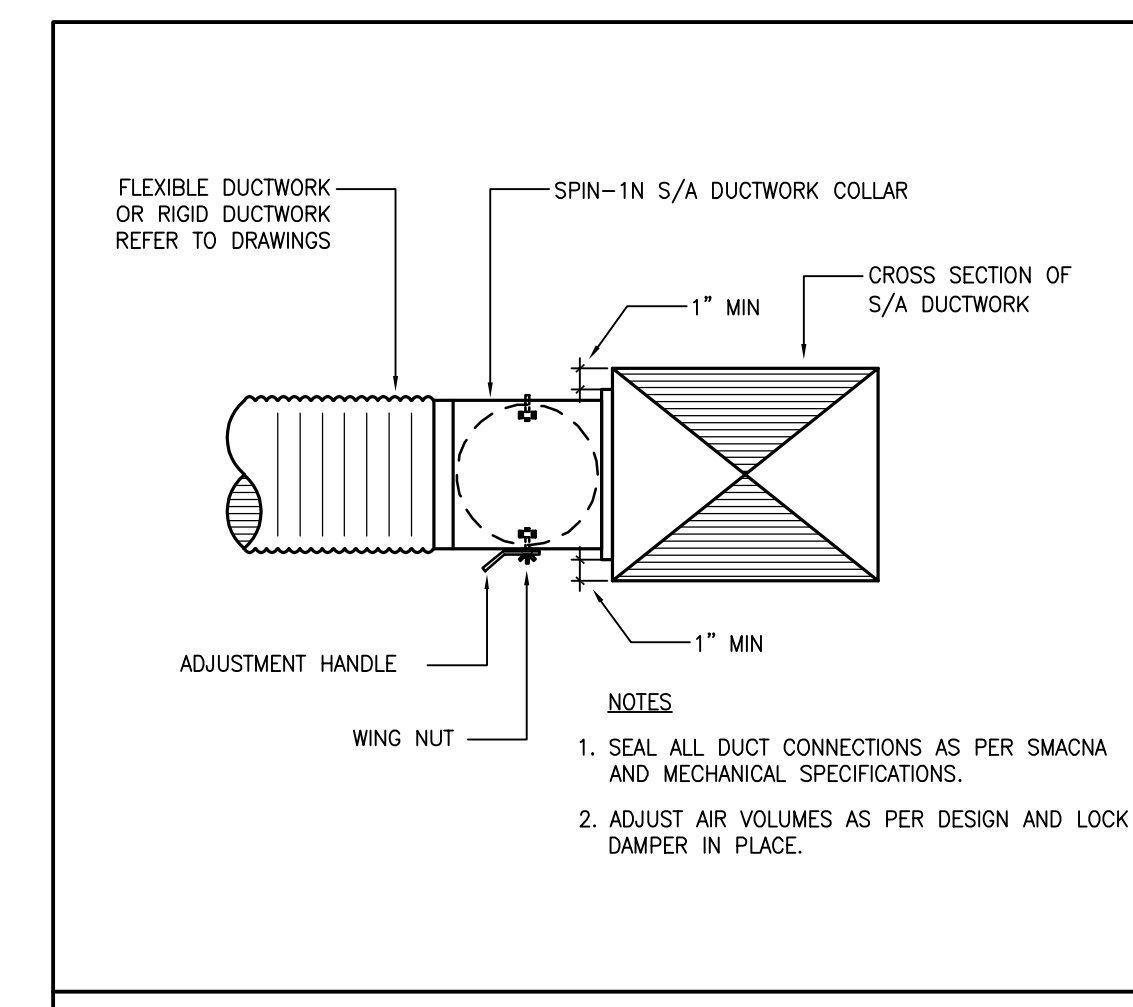
TAG	SERVING	MANU.	MODEL	AIR CAP. (L/S)	DUCT DIM. (MM)	EAT (°C)	LAT (°C)	STEPS	KW	V/PHHZ	TYPE	REMARKS
EDH-1	SF-1 F/A HEATING	THERMOLEC	C2CACUTD01AF3C	293	300/300	-20.0	21.1	SCR	14.5	208/3/60	OPEN COIL	SLIP IN OPEN COIL ELECTRIC DUCT HEATER C/W MAGNETIC CONTACTOR FULL BREAK, AUTOMATIC CUT-OUT, SECONDARY PROTECTION, TRANSFER WITH FUSIBLE LINK, DUCT STAT AND SCR CONTROLS.

NOTES:

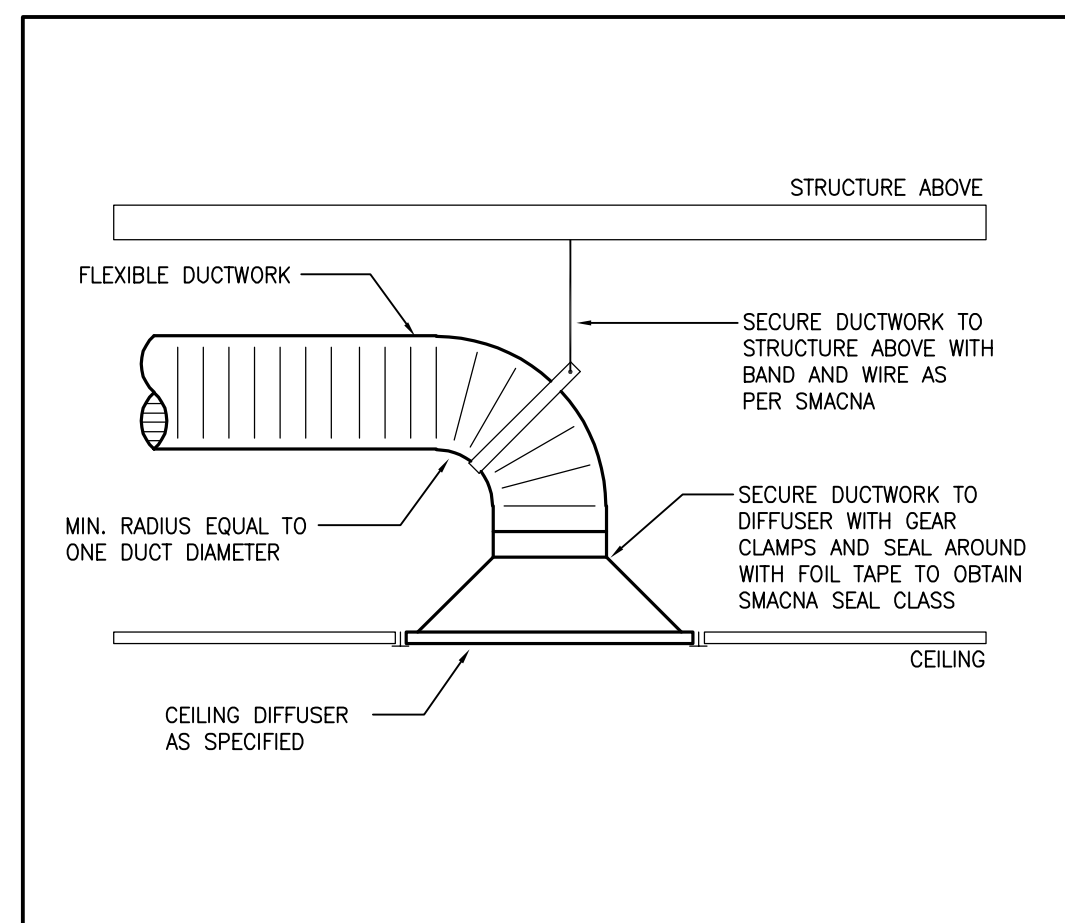
- PROVIDE ALL ELECTRIC DUCT HEATERS COMPLETE WITH DISCONNECT SWITCH.
- COORDINATE FINAL SIZE WITH SHEETMETAL CONTRACTOR.



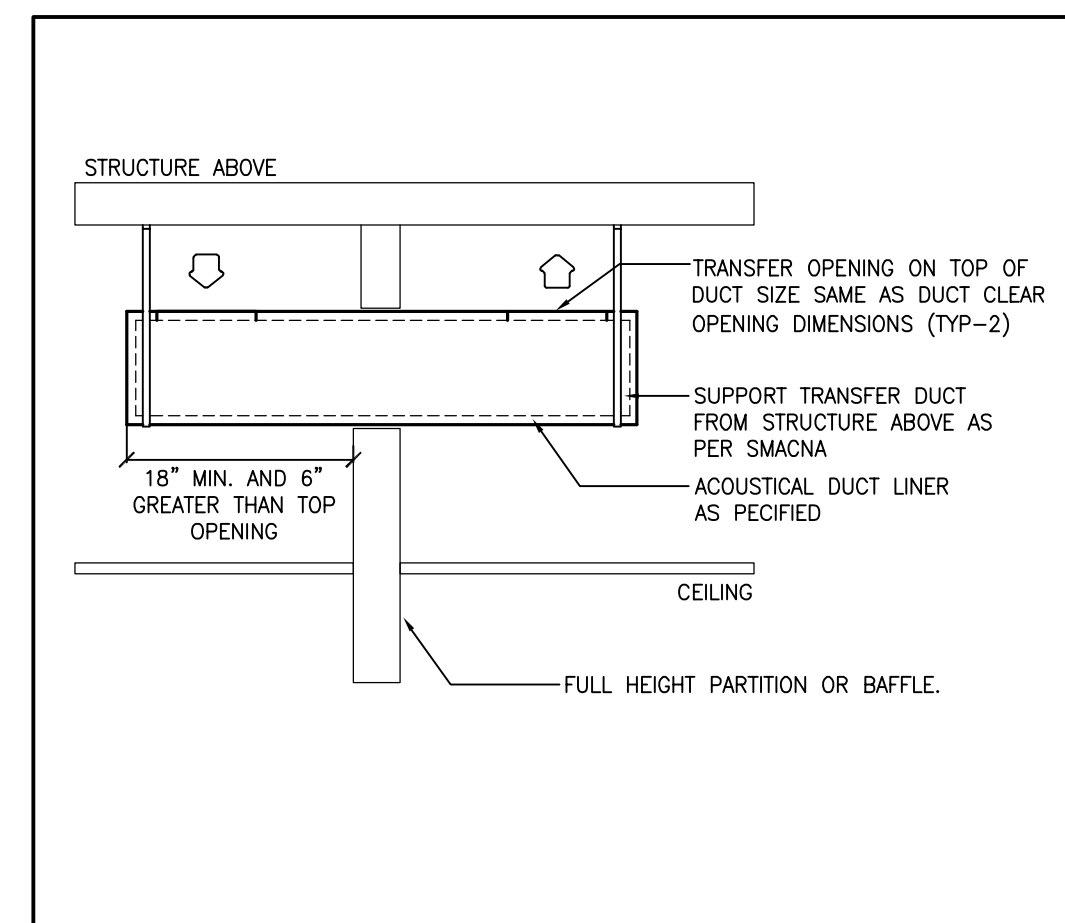
1 DUCTWORK FITTINGS DETAIL
M-1.4 NTS



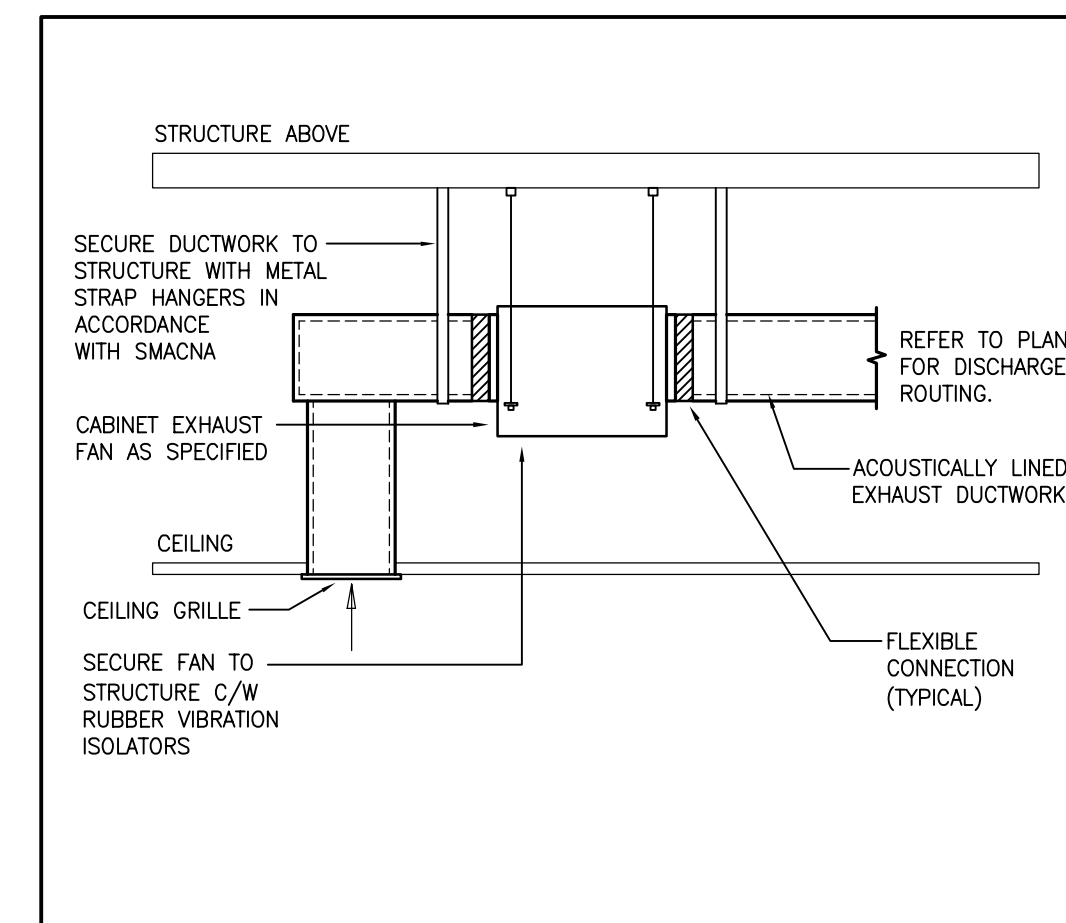
2 SPIN-IN DUCT COLLAR CONNECTION DETAIL
M-1.4 NTS



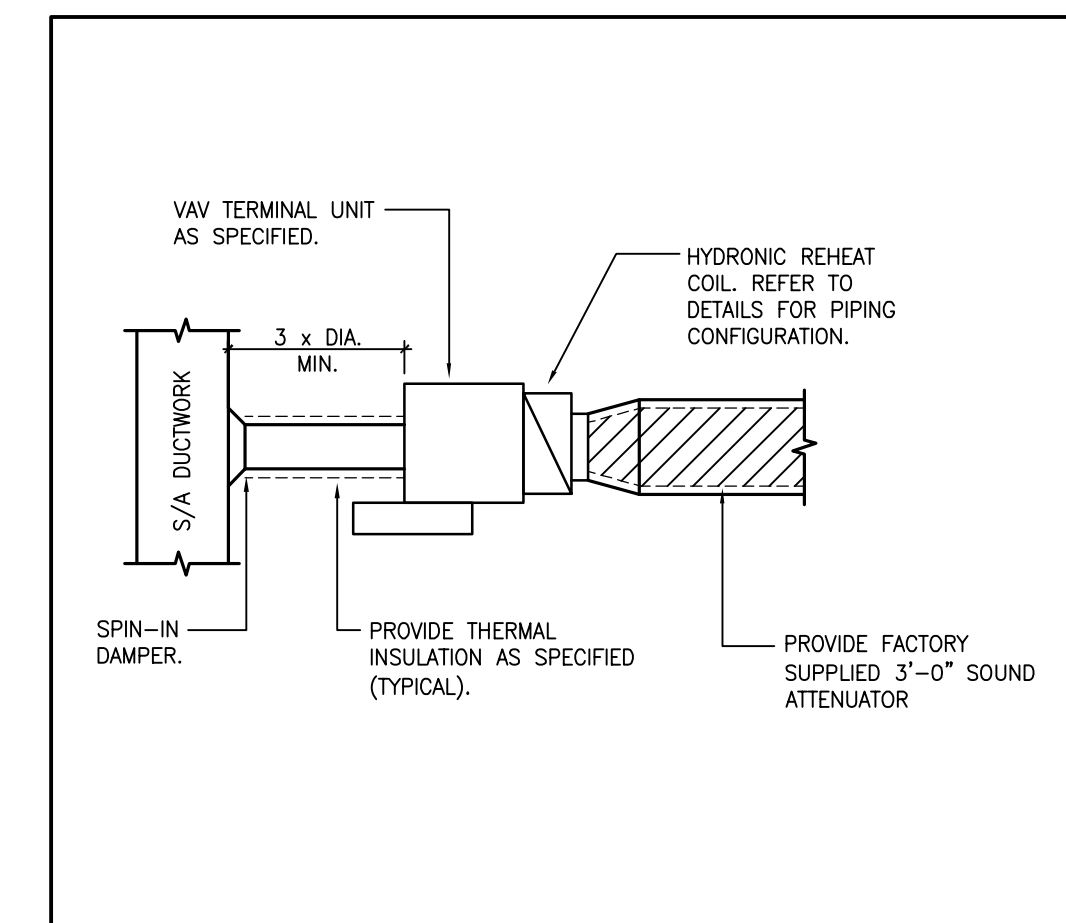
3 DIFFUSER SUPPORT DETAIL
M-1.4 NTS



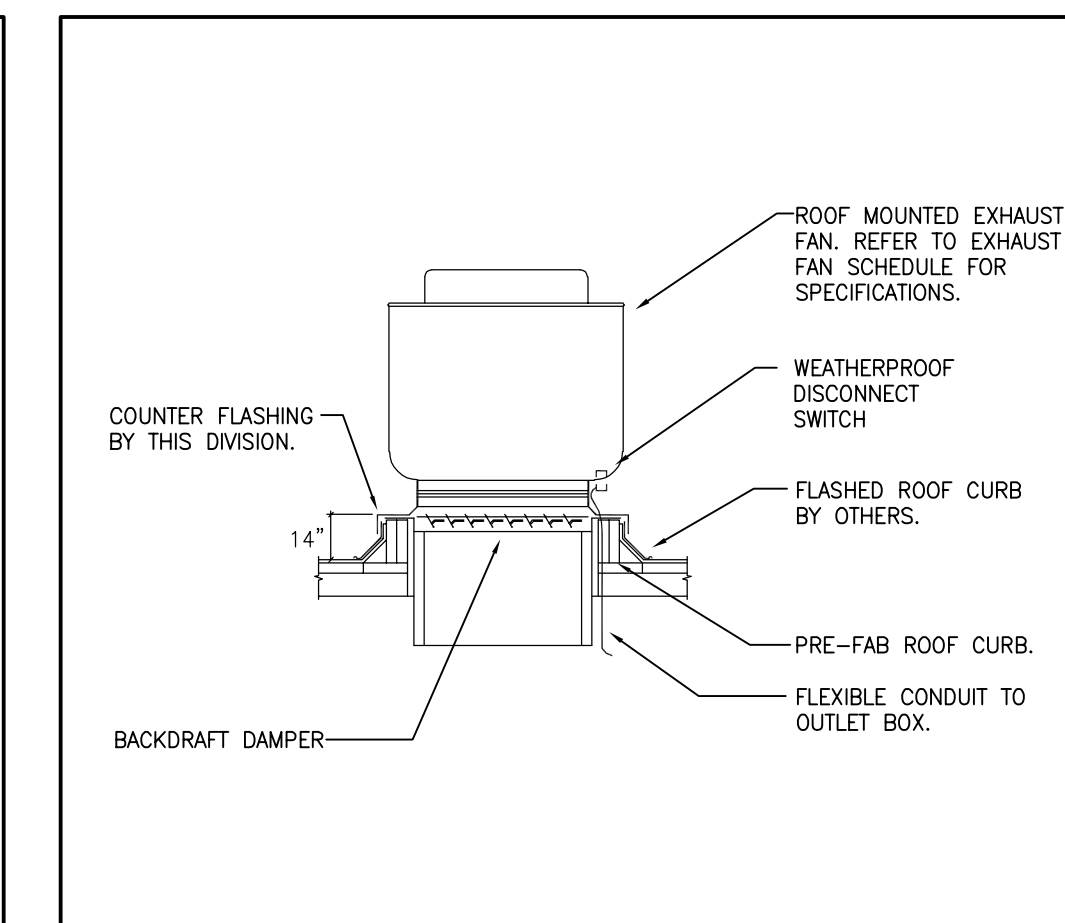
4 TRANSFER DUCTWORK DETAIL
M-1.4 NTS



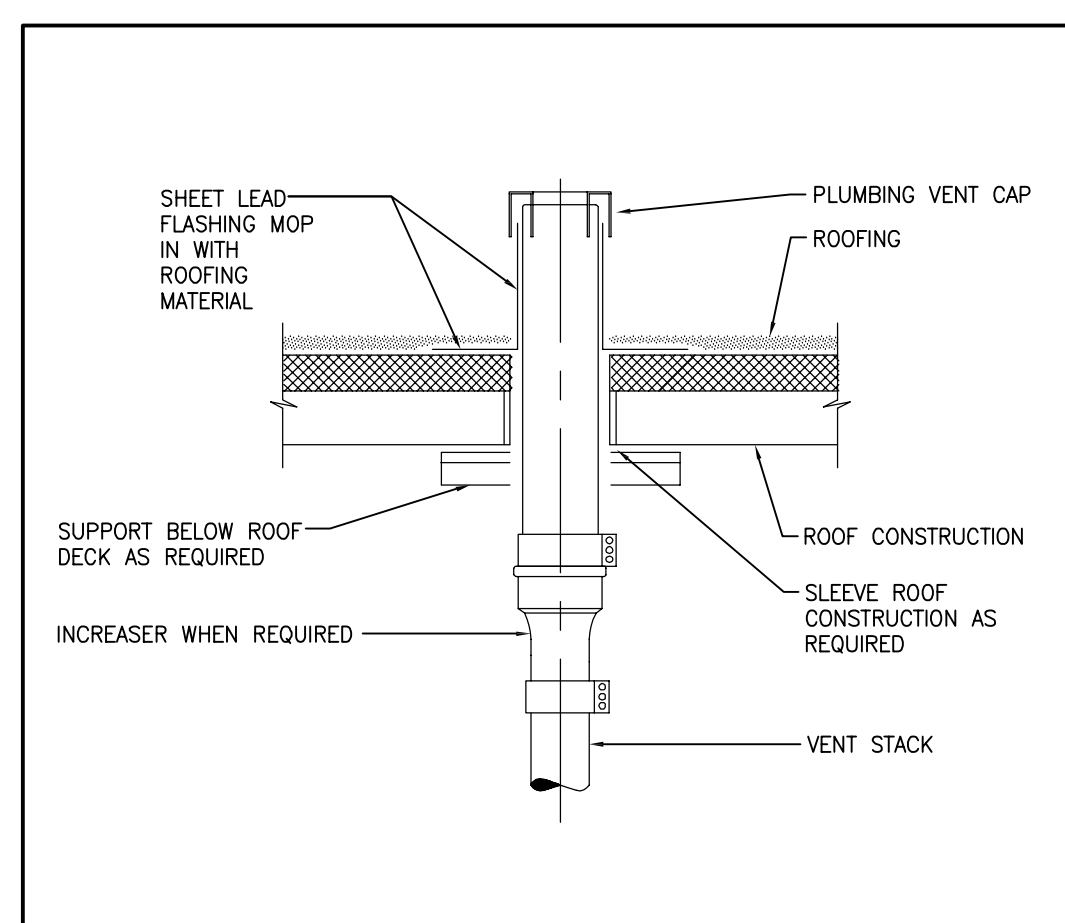
5 INLINE FAN DETAIL
M-1.4 NTS



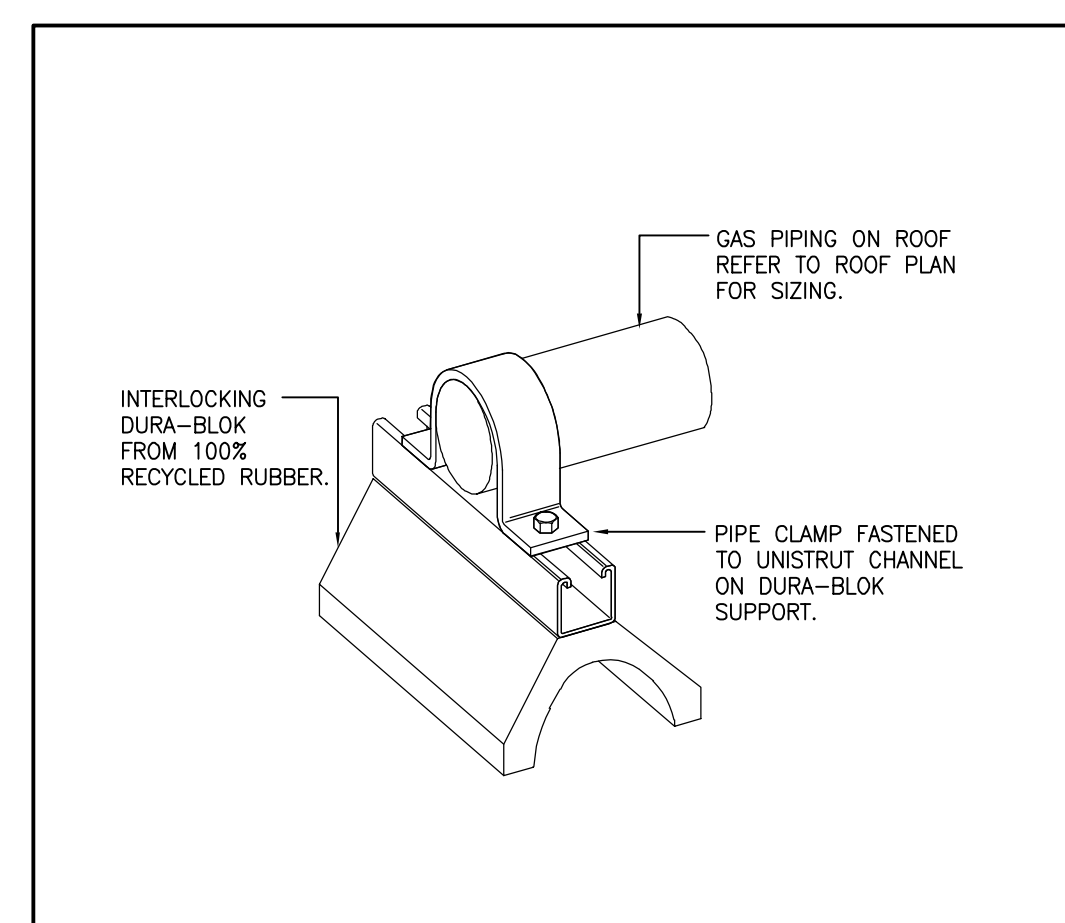
6 VAV TERMINAL UNIT DETAIL
M-1.4 NTS



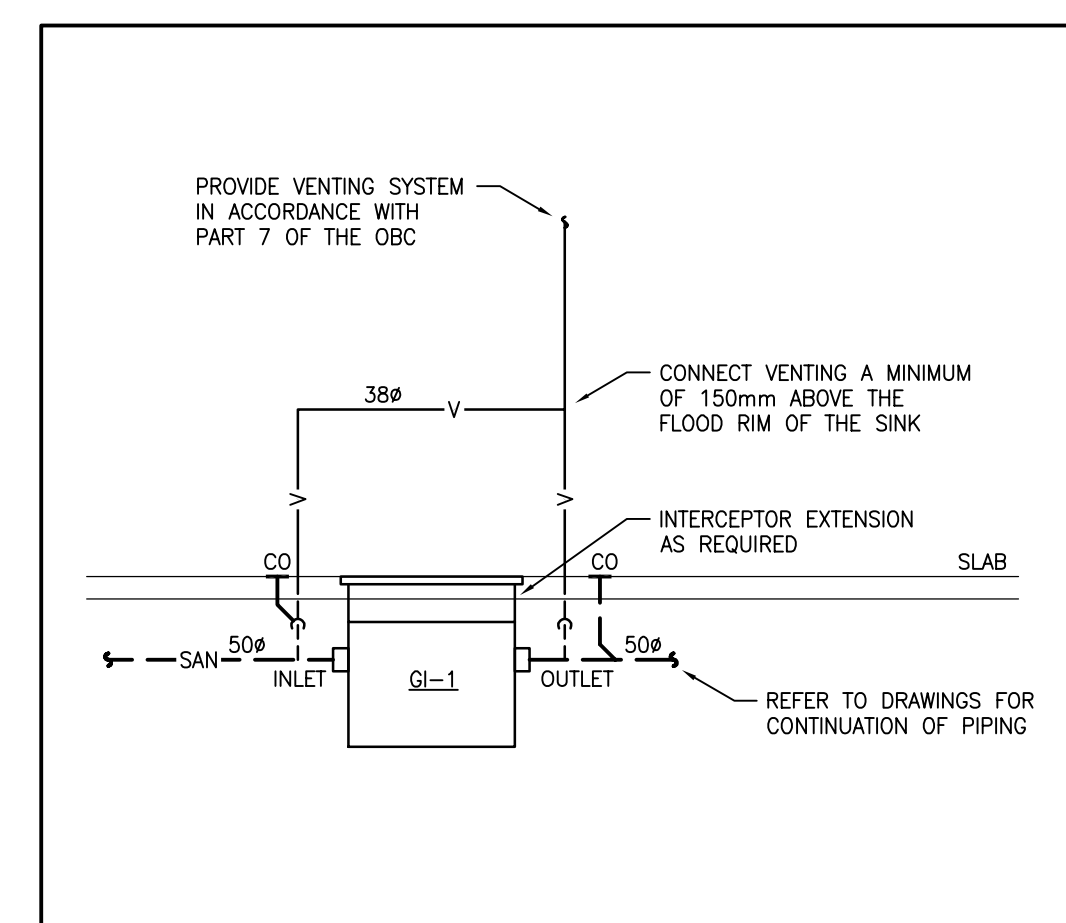
7 ROOF MOUNTED EXHAUST FAN DETAIL
M-1.4 NTS



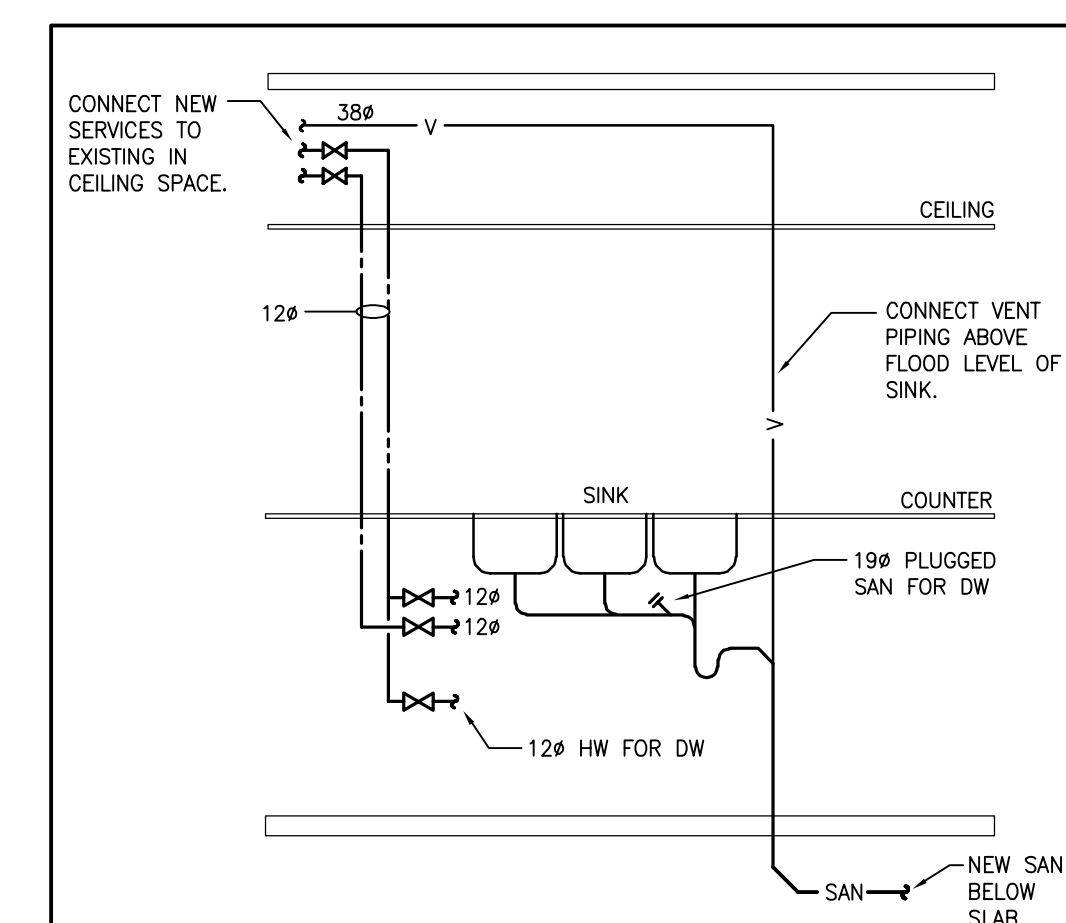
8 PLUMBING VENT THROUGH ROOF DETAIL
M-1.4 NTS



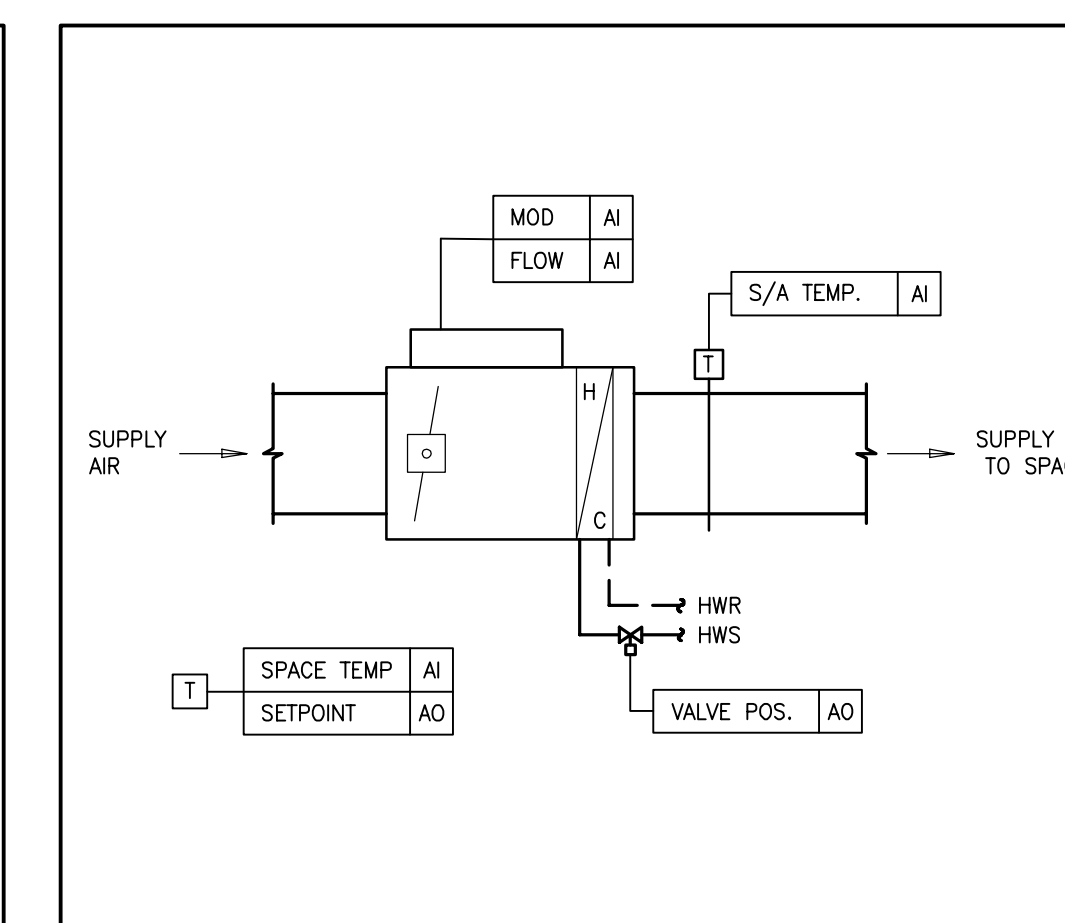
9 GAS PIPING ON ROOF SUPPORT DETAIL
M-1.4 NTS



10 GREASE INTERCEPTOR DETAIL
M-1.4 NTS



11 KITCHEN SINK CONNECTION DETAIL
M-1.4 NTS

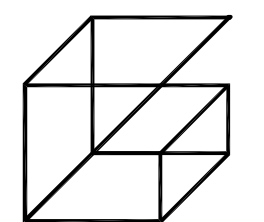


12 VAV TERMINAL UNIT CONTROLS SCHEMATIC
M-1.4 NTS



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01	ISSUED FOR 80% REVIEW	23/03/06	SW
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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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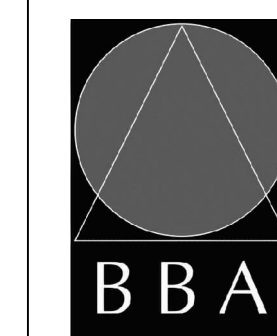
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
85 Grace Street Toronto

DRAWING:
MECHANICAL SCHEDULES III AND DETAILS



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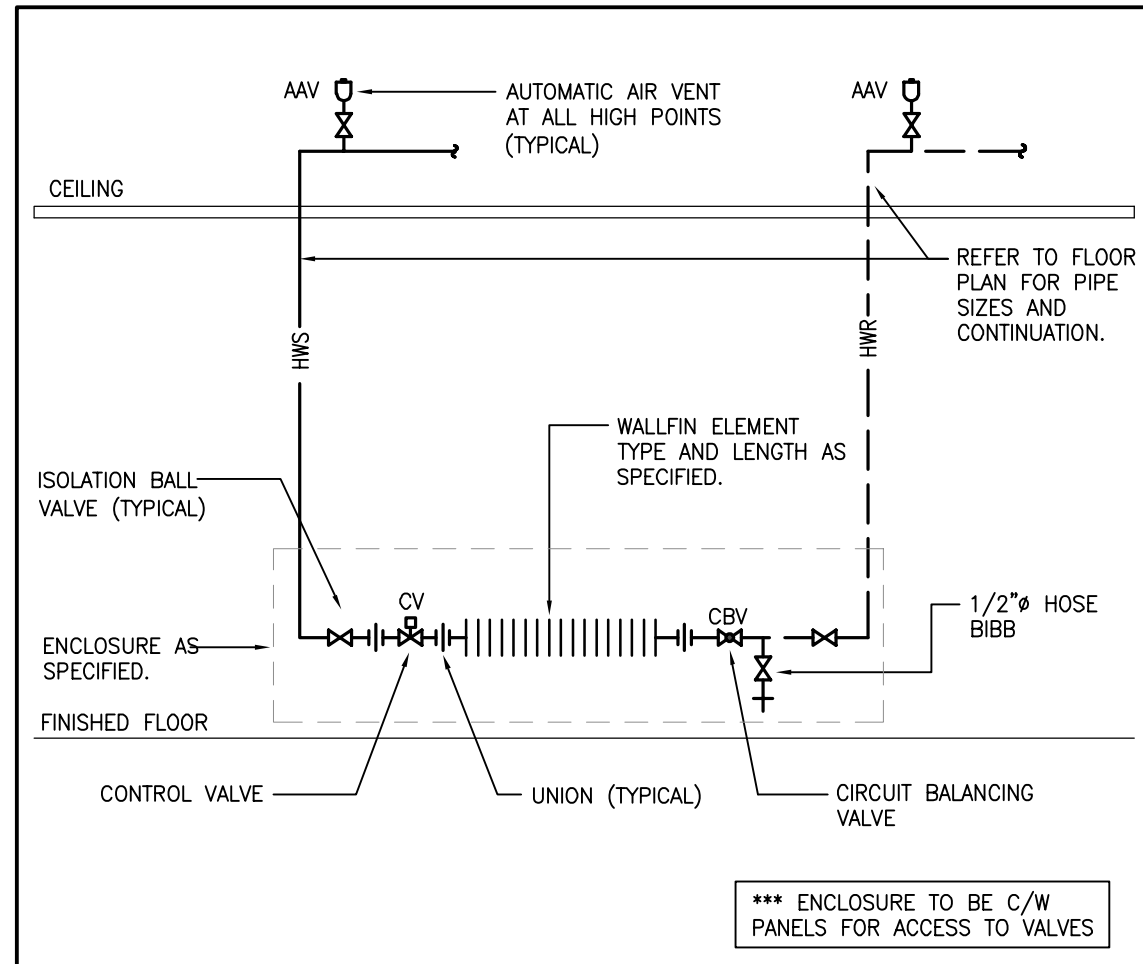


DESIGN BY: JH
DRAWN BY: SW
CHECKED BY: RG
DATE: FEB 2023
SCALE: AS NOTED
FILE:

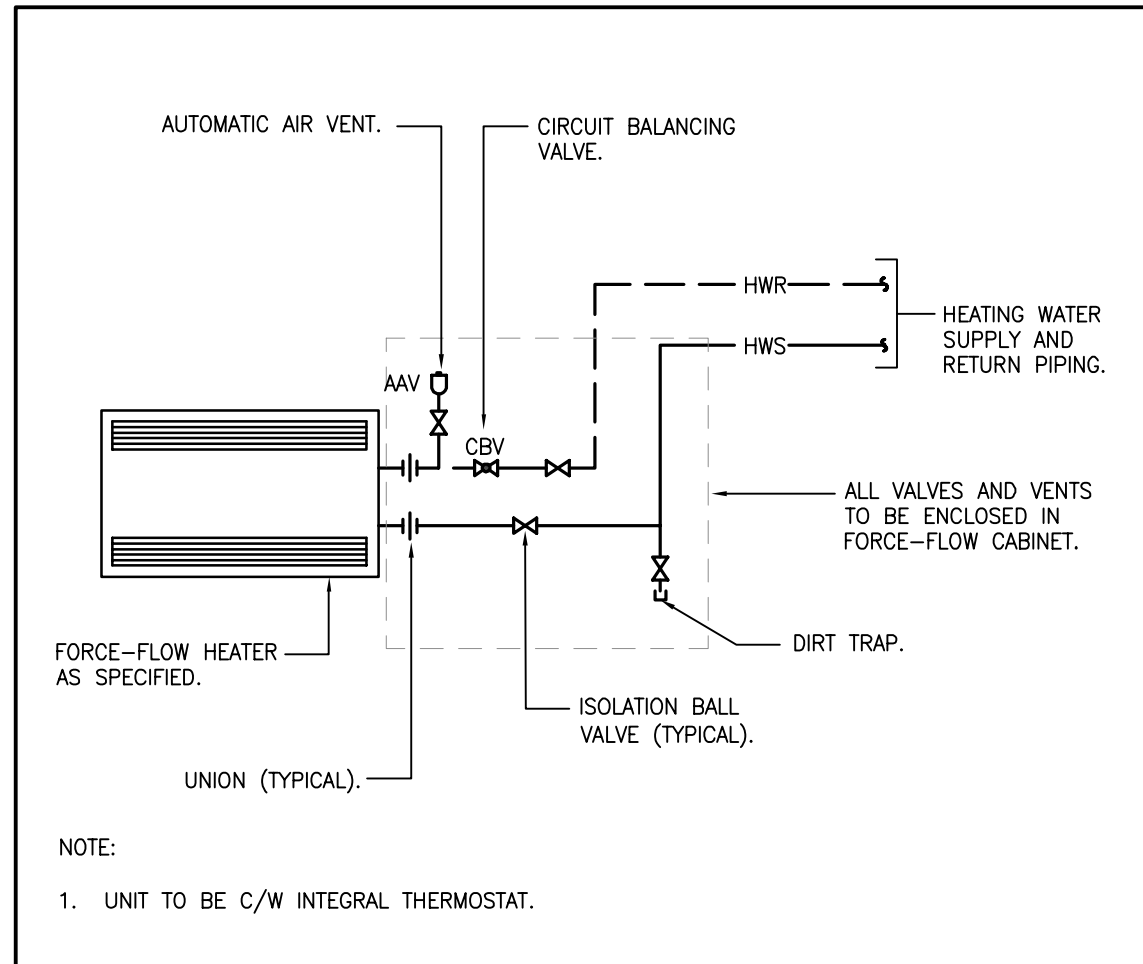
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PROJECT NO: DRAWING NO:

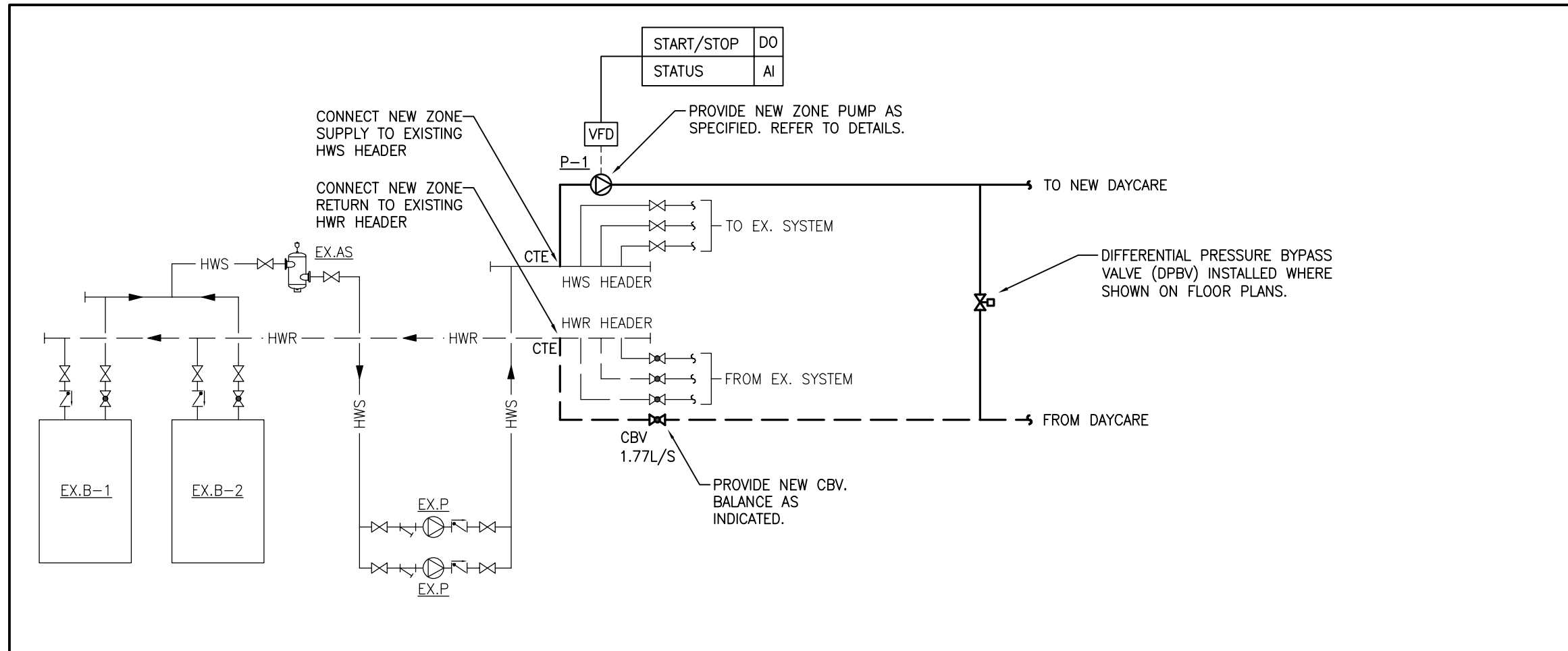
23-108 M-1.4



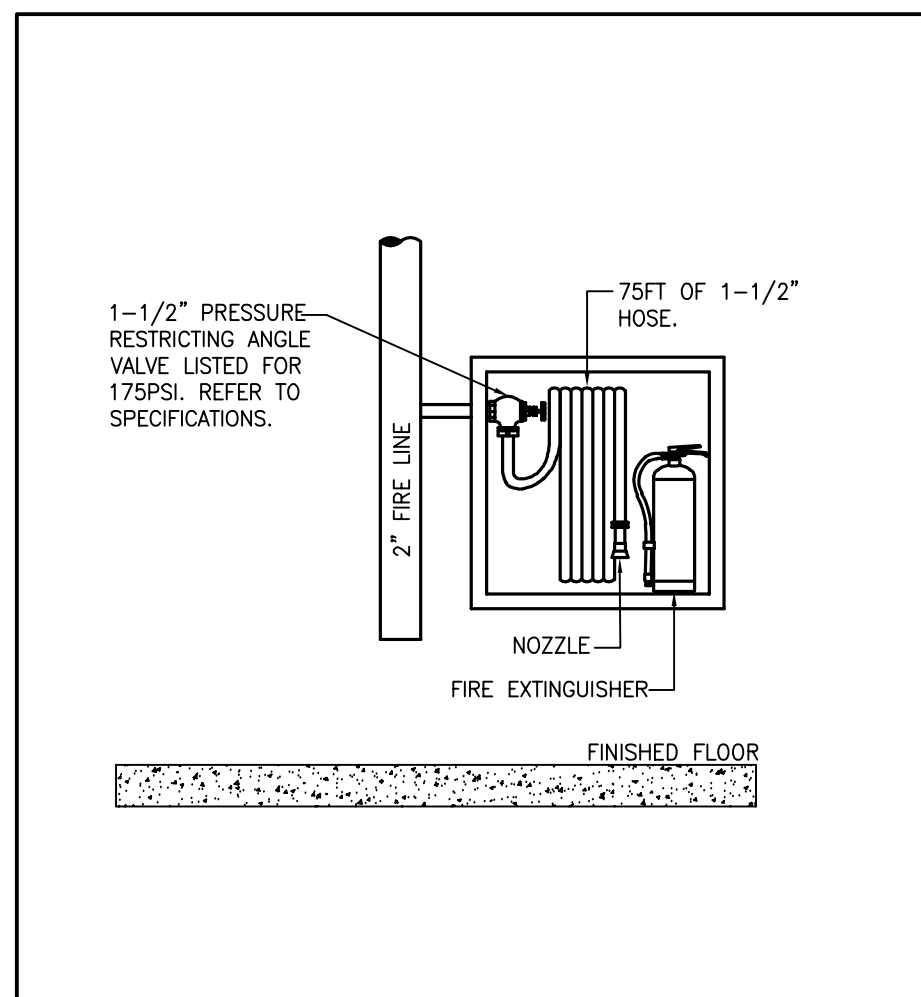
1 WALLFIN C/W ENCLOSURE PIPING DETAIL
M-1.5 NTS



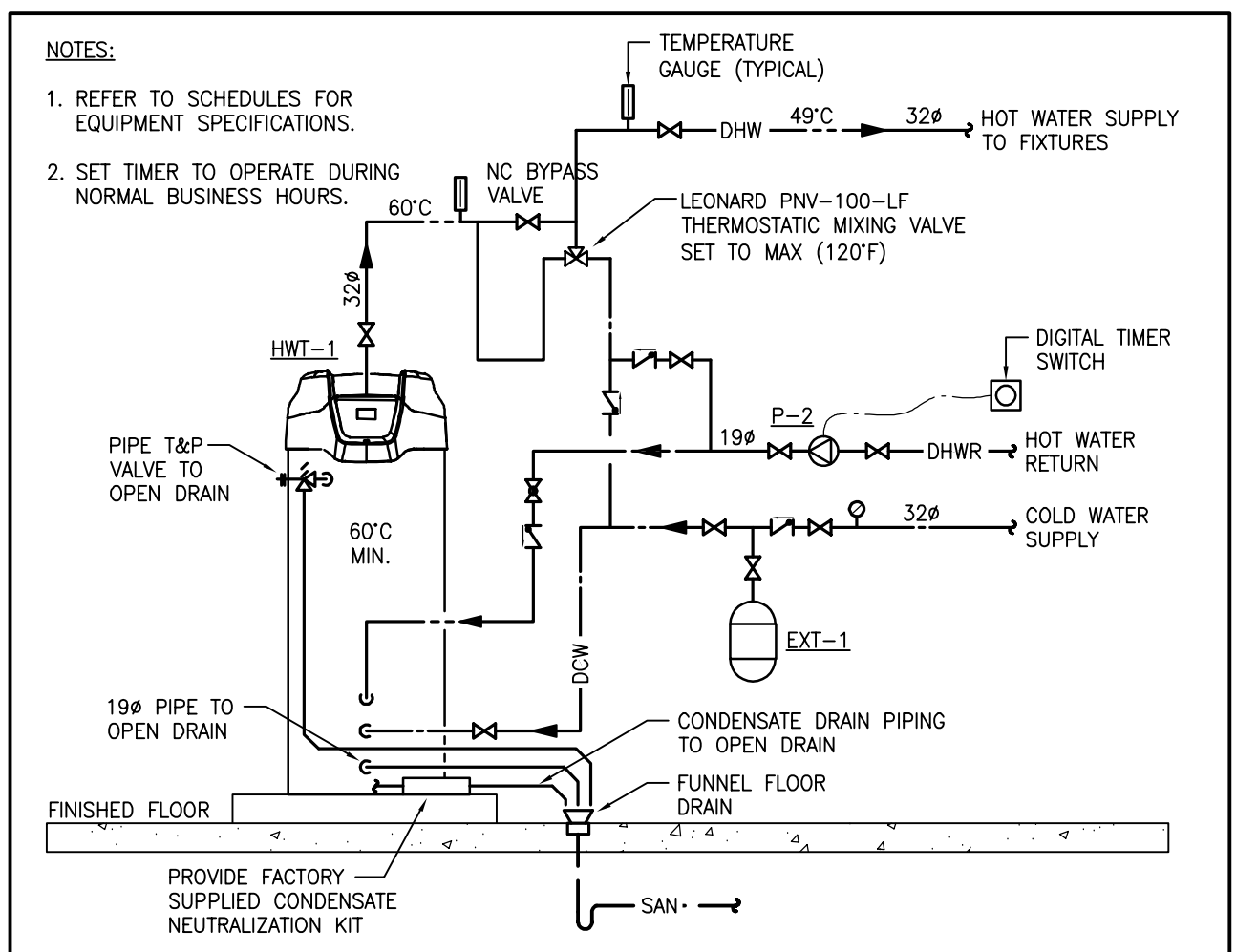
2 HYDRONIC FORCE FLOW HEATER PIPING DETAIL
M-1.5 NTS



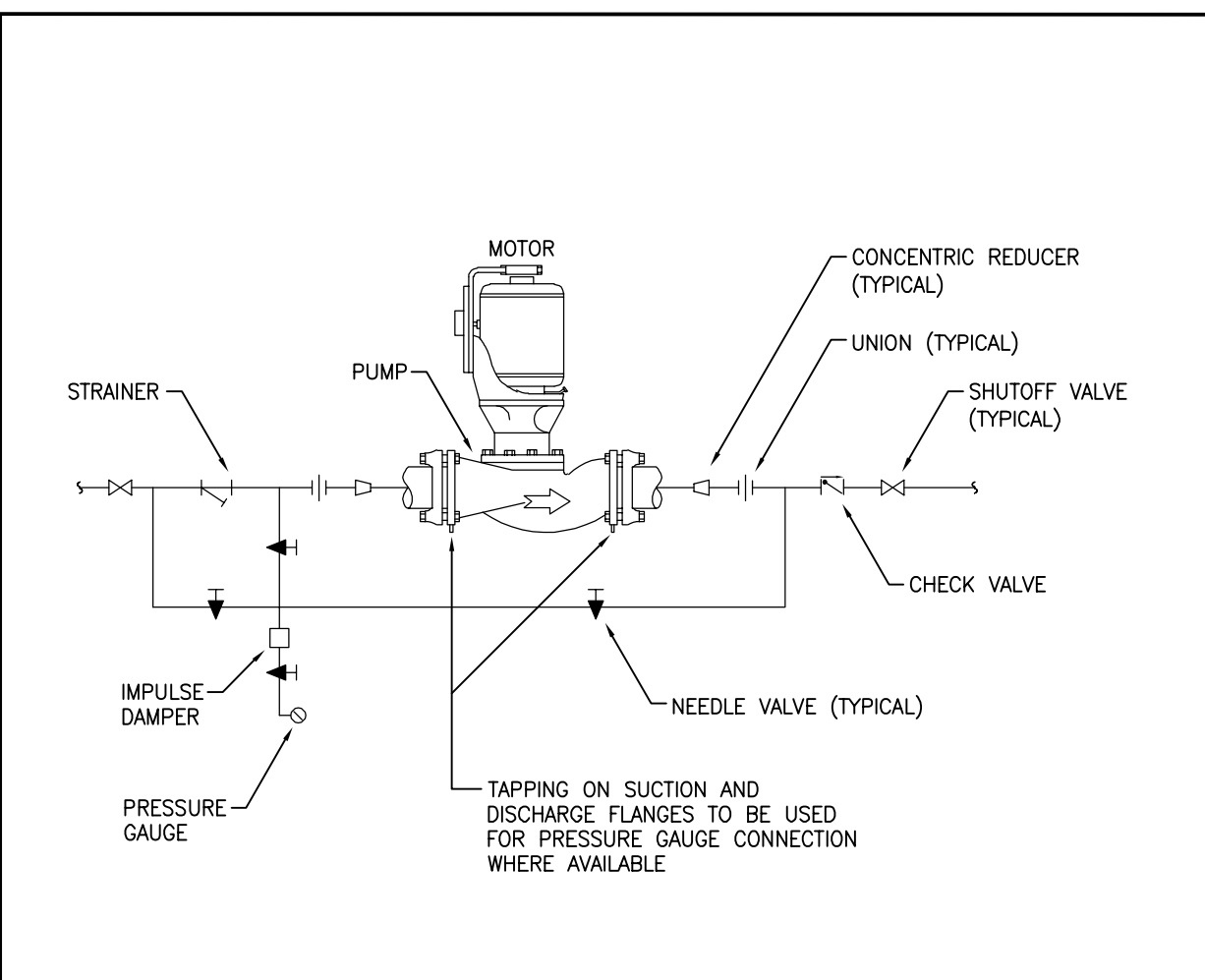
3 MECHANICAL ROOM BOILER SCHEMATIC
M-1.5 NTS



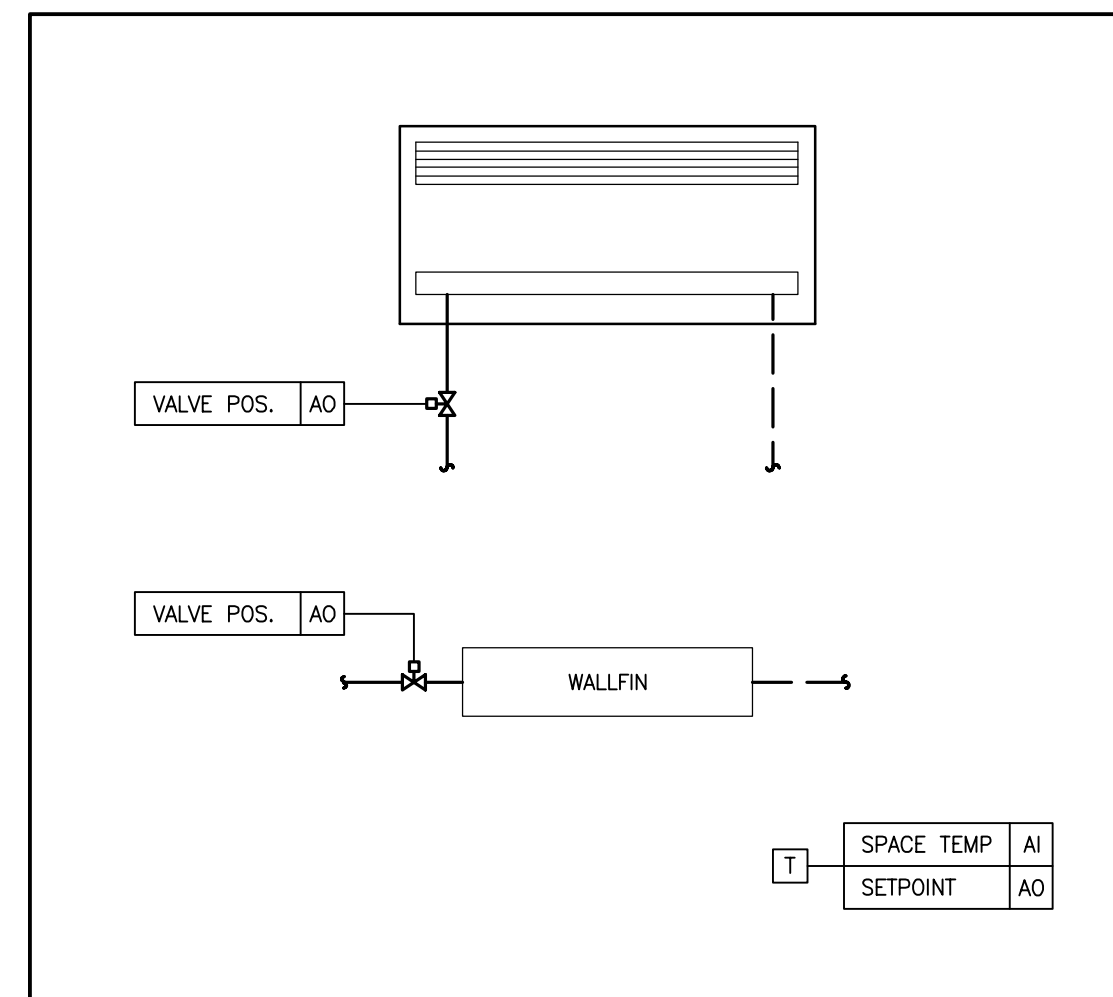
4 FIRE HOSE CABINET DETAIL
M-1.5 NTS



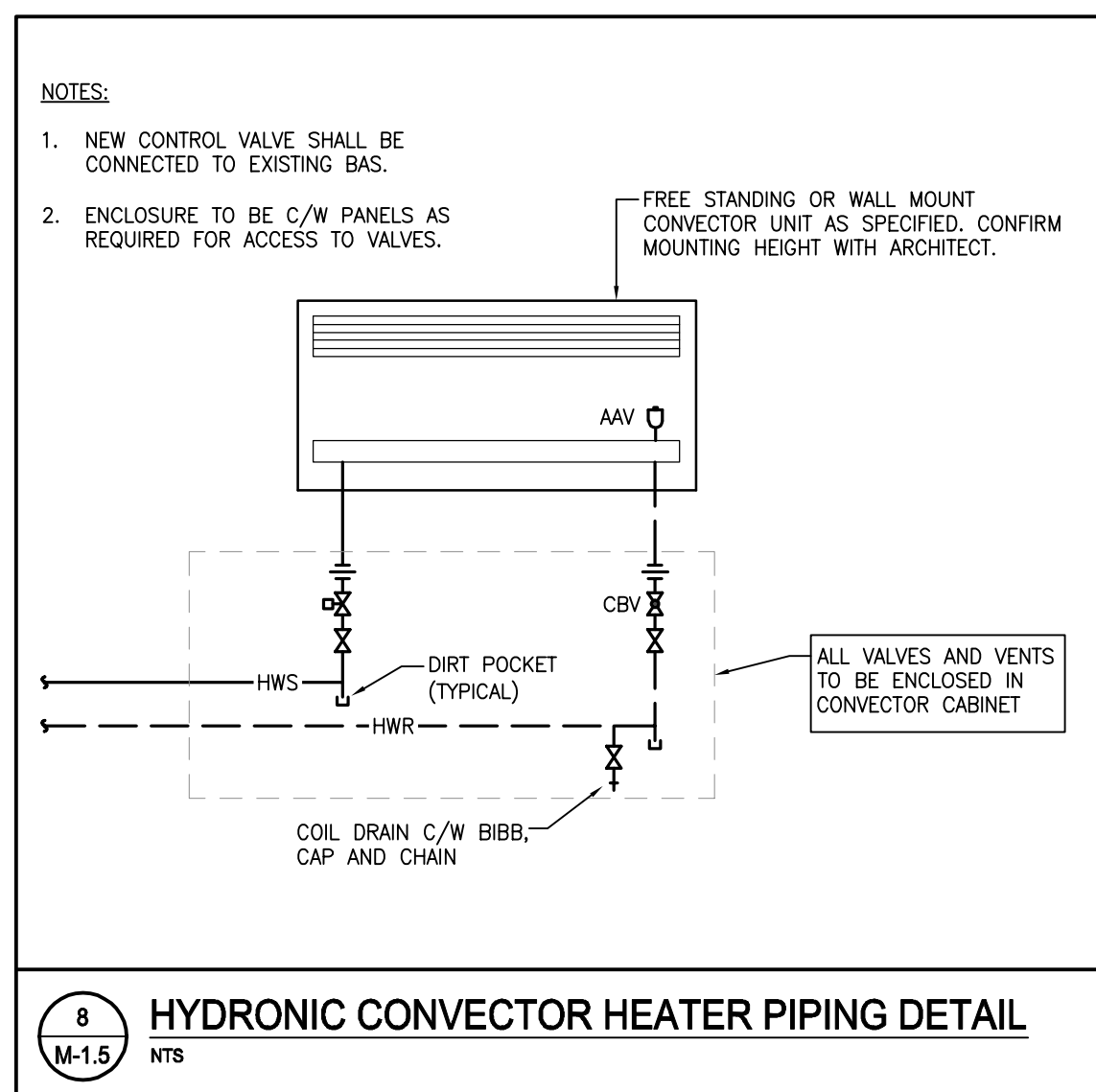
5 TYPICAL WATER HEATER PIPING SCHEMATIC
M-1.5 NTS



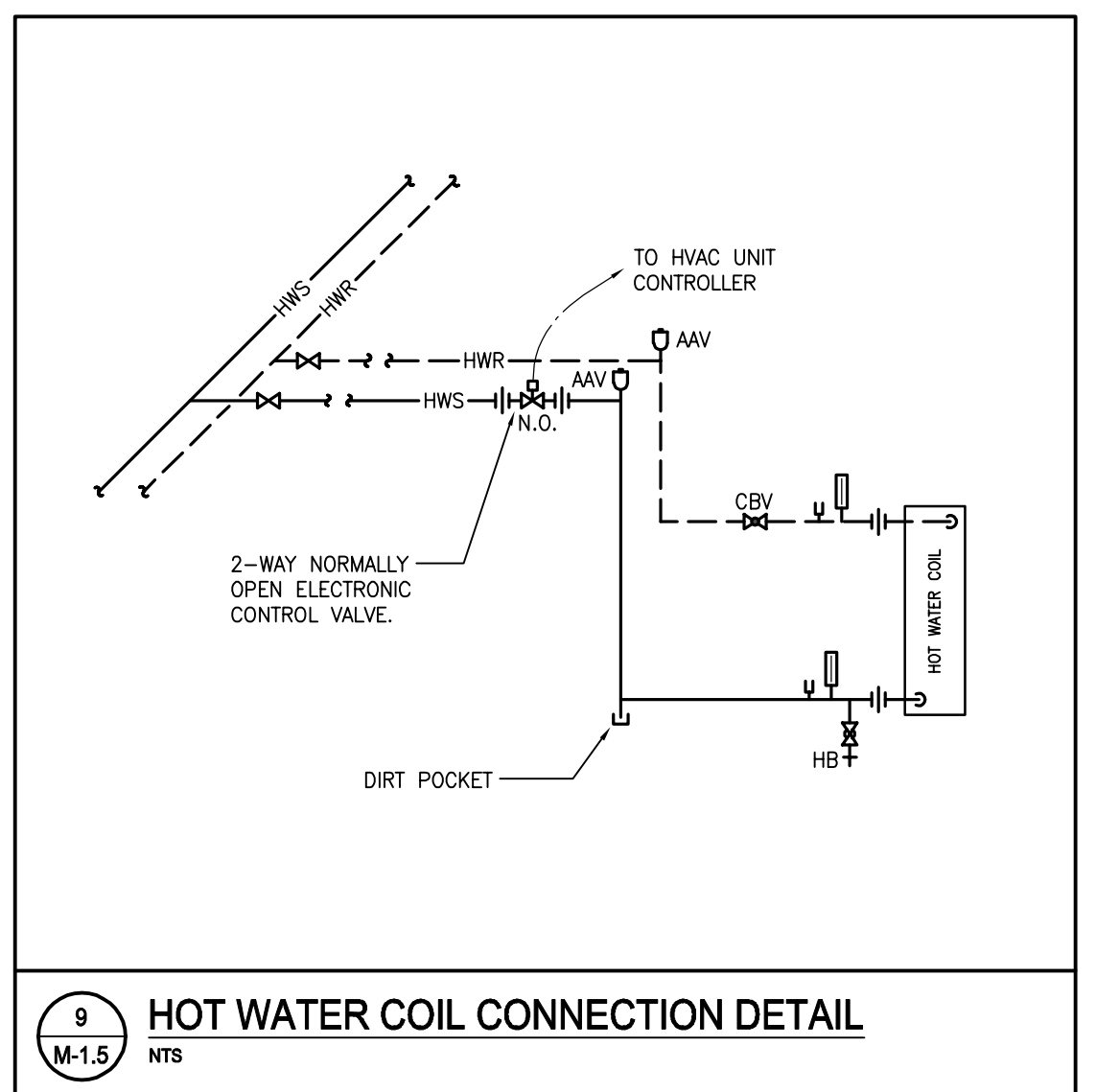
6 INLINE CENTRIFUGAL PUMP DETAIL
M-1.5 NTS



7 HYDRONIC HEATER CONTROLS SCHEMATIC
M-1.5 NTS



8 HYDRONIC CONVECTOR HEATER PIPING DETAIL
M-1.5 NTS

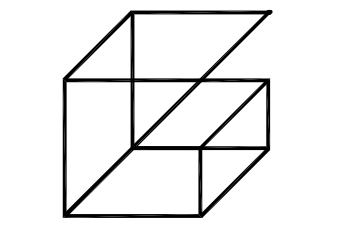


9 HOT WATER COIL CONNECTION DETAIL
M-1.5 NTS



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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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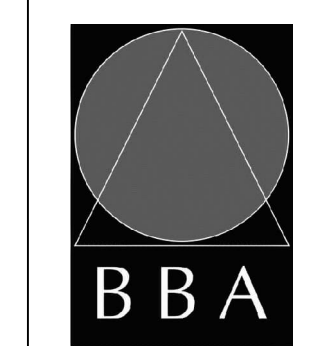
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
85 Grace Street Toronto

DRAWING:
MECHANICAL DETAILS



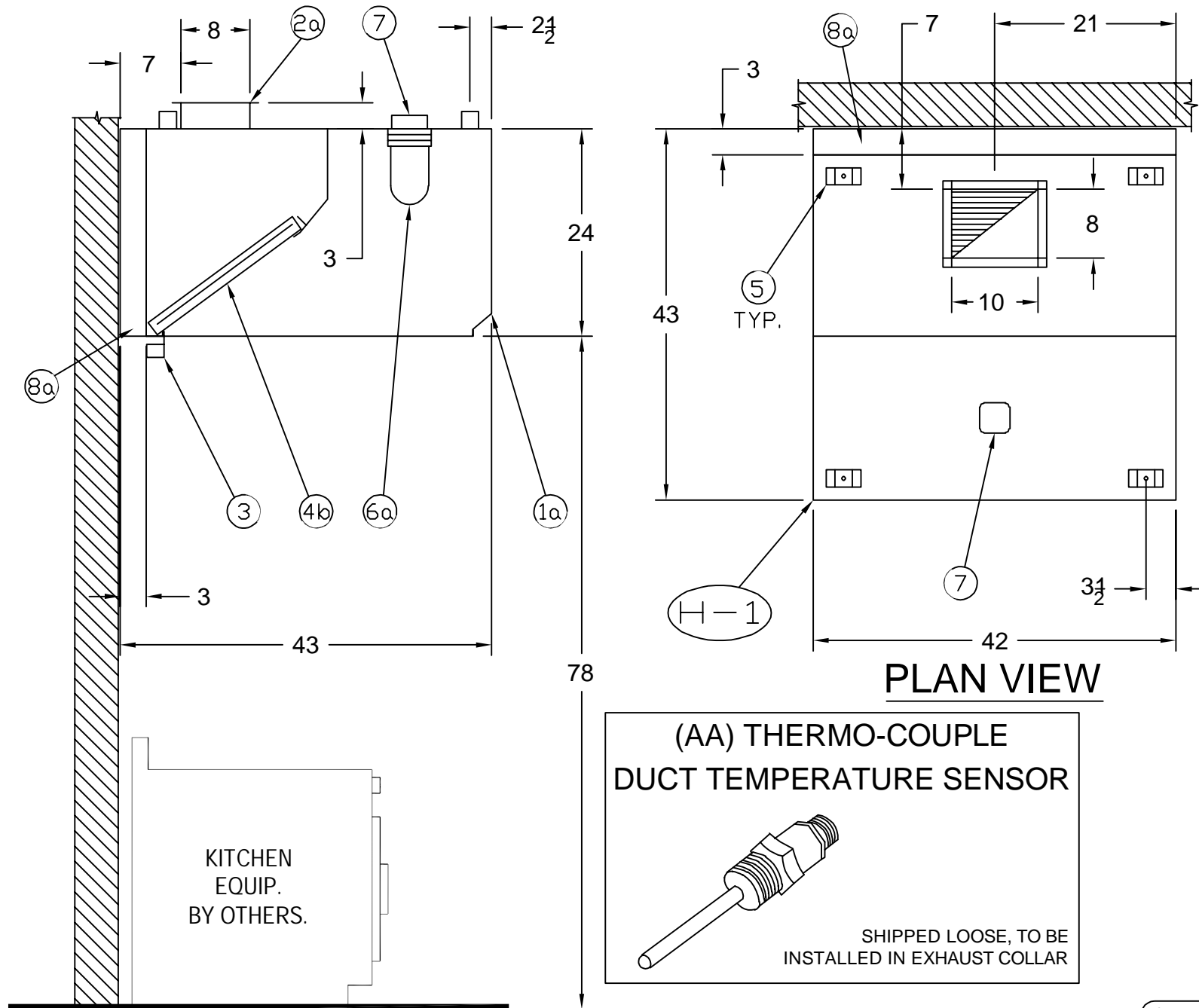
BARRY BRYAN ASSOCIATES
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DESIGN BY: JH
DRAWN BY: SW
CHECKED BY: RG
DATE: FEB 2023
SCALE: AS NOTED
FILE:

PROJECT NO: **23-108**
DRAWING NO: **M-1.5**



(AA) THERMO-COUPLE DUCT TEMPERATURE SENSOR
SHIPPED LOOSE, TO BE INSTALLED IN EXHAUST COLLAR



Consultants: Giallonardo Engineering Inc



PROJECT: Pet Daycare

Customer:

DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	1 of 9

ACCESSORIES :

- 1a) Stainless steel 18G 430 #4 construction
- 2a) Exhaust collar (3" height)
- 3) Stainless steel grease collector
- 4b) Stainless steel baffle filters, ULC listed
- 5) Hanging Brackets
- 6a) Incandescent lights, ULC listed. Qty. : 1
- 7) Junction box for lighting
- 8a) 3" Stainless steel spacer integrated to the hood to respect the clearance required for semi-combustibles materials according to NFPA 96
- AA) ECP temperature sensor for automatic activation. Qty.: 1

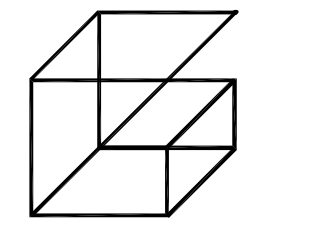
H-1, Fast kitchen exhaust hood model SSH. All stainless steel welded construction, 18G 430 #4. ULC Listed MH46941.

FAST KITCHEN EXHAUST HOOD									
ITEM	QTY	DIMENSION			Collar		Capacity (CFM)	Weight (Lbs)	S.P.
		L	P	H	L	P			
H-1	1	42"	43"	24"	10"	8"	720	130	0.6"



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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PROJECT:
GARDARIE LA FARANDOLE
Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

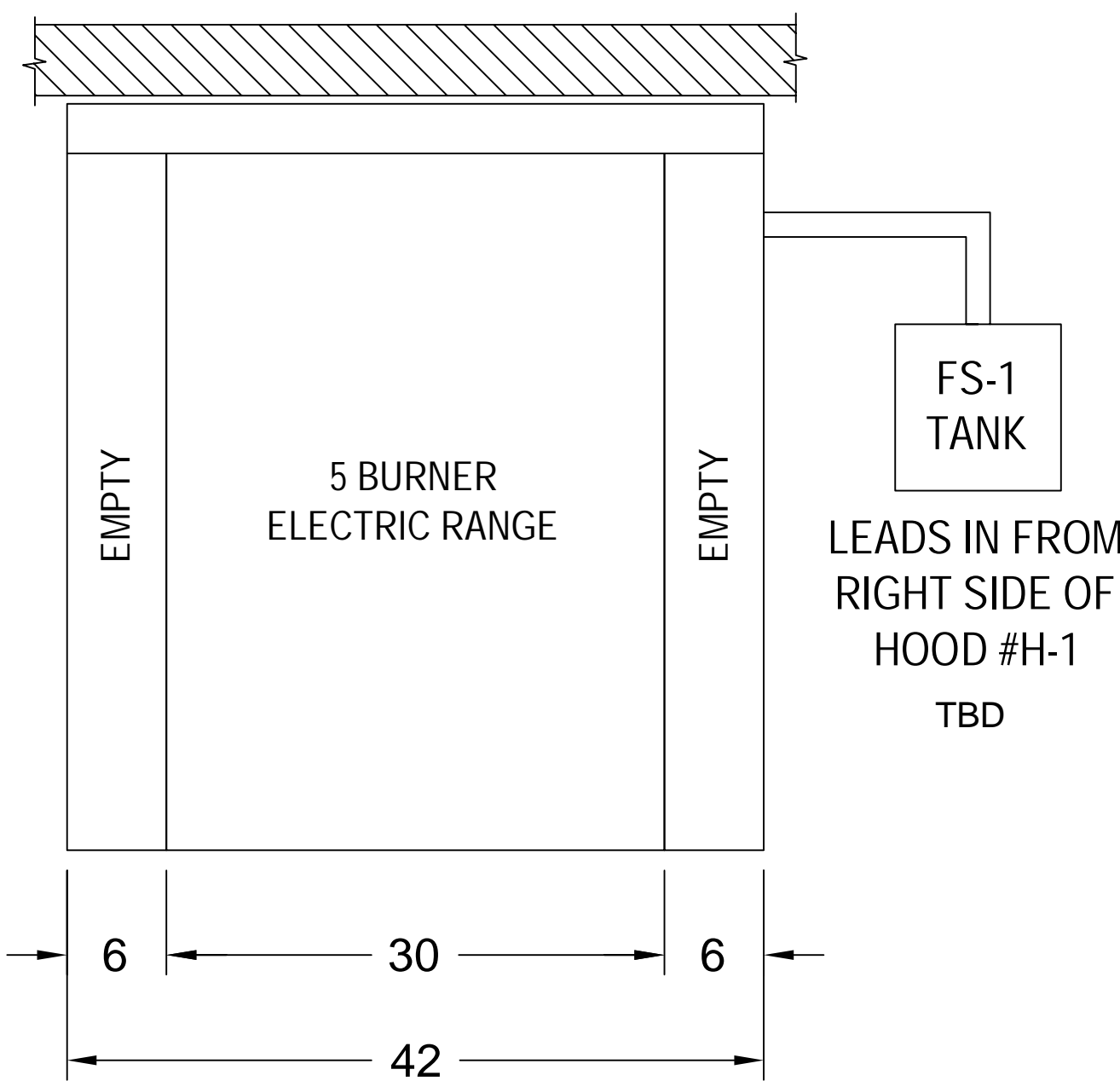
DRAWING:
KITCHEN EQUIPMENT SPECIFICATIONS I



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DESIGN BY: JH	DOC CONTROL DATE:
DRAWN BY: SW	% COMPLETE:
CHECKED BY: RG	INITIAL:
DATE: FEB 2023	
SCALE: AS NOTED	
FILE:	

PROJECT NO: **23-108**
DRAWING NO: **M-1.6**



PLAN VIEW

FS-1: Fire suppression system
Model: ANSUL R-102, ULC 300
Capacity: 1.5 Gallons (3 flow points out of 5 flow points)
Size: Stainless steel cabinet 16-1/2"W x 23-1/2"H x 7-1/2"D
Complete with: Stainless steel piping, stainless steel cabinet, remote manual pull station, double micro-switch, class K portable extinguisher, cartridge & chemicals, final field hook-up not included.

1254.6 installed as per NFPA96 (pre-piped in the hood, final field hook up not included)

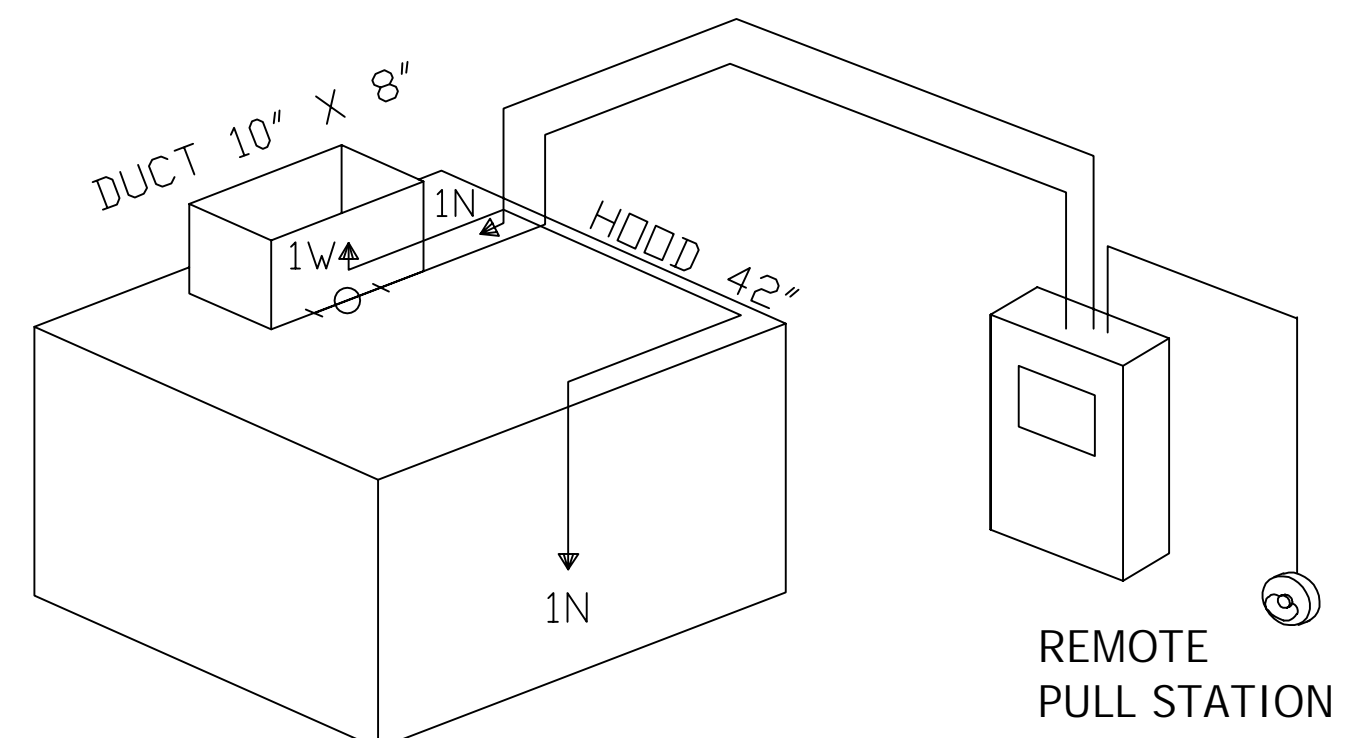
Consultants: Giallonardo Engineering Inc



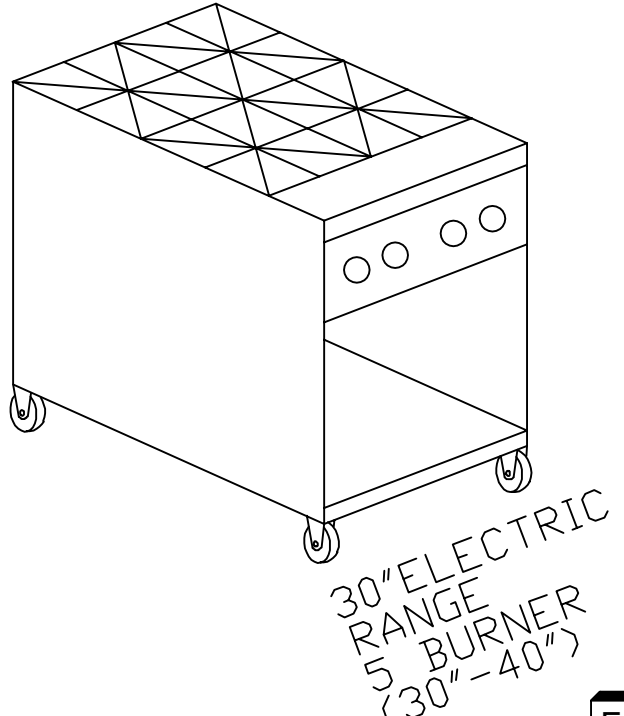
PROJECT: Pet Daycare

Customer:

DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	2 of 9



CLASS K WET CHEMICAL EXTINGUISHER SHALL BE INSTALLED 42"-48" ABOVE THE FINISHED FLOOR
1/2" EMT USED FOR DETECTION, AND PULL STATION
3/8" PIPING USED FOR DISTRIBUTION NETWORK



FS-1: FIRE SUPPRESSION SYSTEM

Nozzle Description	Flow Points	Quantity
Nozzle 1W	1	1
Nozzle 1F	1	-
Nozzle 1N	1	2
Nozzle 2W	2	-
Nozzle 230	2	-
Nozzle 245	2	-
Nozzle 260	2	-
Nozzle 3N	3	-

FS-1: Fire suppression system
Model: ANSUL R-102, ULC 300
Capacity: 1.5 Gallons (3 flow points out of 5 flow points)
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1254.6 installed as per NFPA96 (pre-piped in the hood, final field hook up not included)

Consultants: Giallonardo Engineering Inc



PROJECT: Pet Daycare

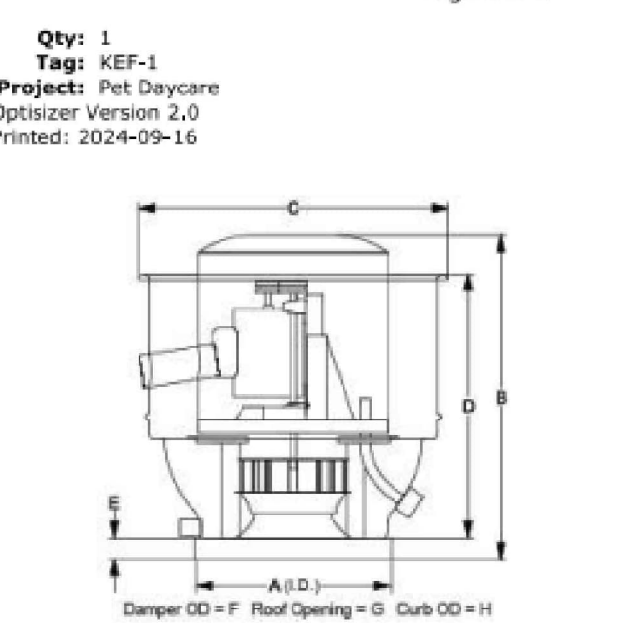
Customer:

DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	3 of 9



S&P Canada

STXBHPRHUL15-1/2
Centrifugal Roof Exhauster-UL762 Restaurant-Belt Drive
STANDARD FEATURES:
AMCA Air, Sound, and FEI Licensed • cULus 705 & 762 for Grease Removal Certified • Disconnect standard with ODP and TE single speed motors • Rainproof Electrical Box with Wiring Chasse • Drives Gases for a Minimum of 150% of Drive Horsepower • 2 Year Fan and 1 Year Motor Warranty • Heavy Duty Aluminum Construction • Heavy Duty 200,000 Hour Rated Pillow Block Bearings • Non-Overloading Aluminum Curved Backward Inclined Wheel • Integral Deep Spun Inlet • Quick-Release latches on motor cover for easy access to motor compartment.

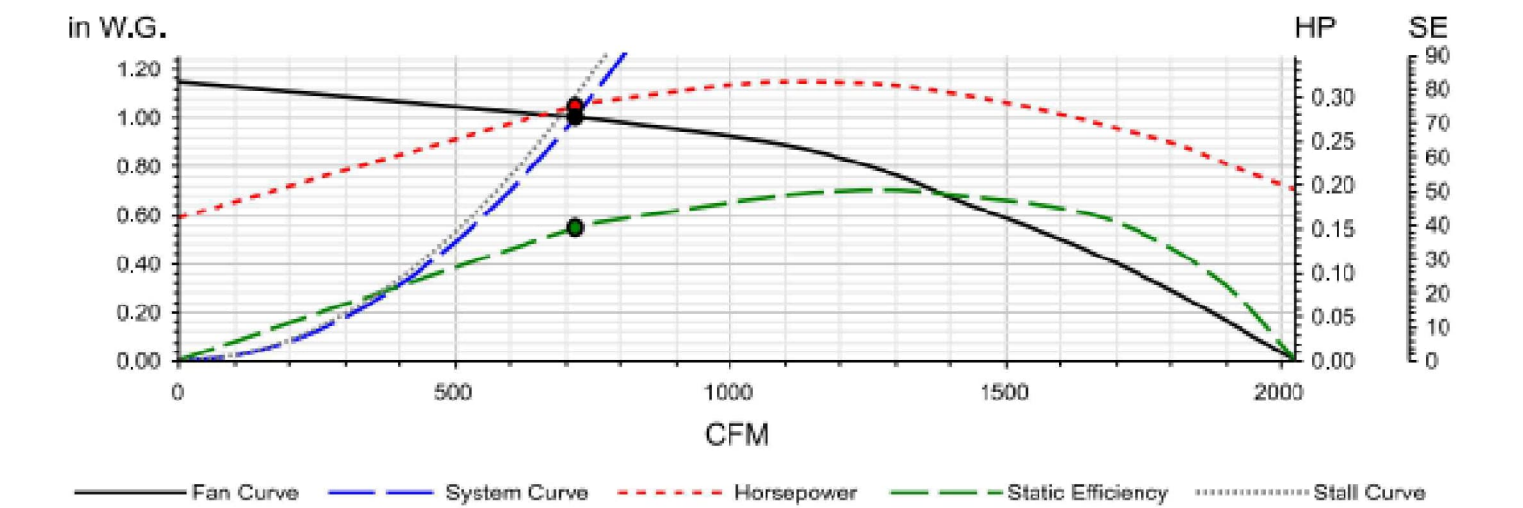


Performance									
Fan RPM	Flow (CFM)	SP (in W.G.)	Power (HP)	FEP Actual (kW)	FEI	SE	TE	FPM (TS)	FPM (DV)
1215	720	1	.289	0.34	1.19	39%	40%	5089	589

Altitude (Feet):									
n/a	Temperature (Fahrenheit):	n/a	Density (Lb/Ft3):						
			.075						

Motor Information (Wired for 208V)									
HP	RPM	Volts/PH/Hz	Enclosure	Efficiency	Mounted				
.5	1725	208V-230V/480V /3PH/60HZ	OPEN DRIP PROOF	STANDARD	YES				

Sound Power Levels - Octave Bands										
L _{WA}	dBA	Sones	1	2	3	4	5	6	7	8
69	58	8.4	69	68	71	65	63	62	57	46



Accessories:
DP STXBHP15 1/2HP 1201-1375RPM (5/8) • GALV CURB, TYPE SF (NON-CANT), RESTAURANT CURB, 22.5" X 22.5", 24" HIGH, 4 VENTS, OMIT INSULATION AND RETAINER (GSF 22.5X24 4V 01) • LABEL ULC/UL 762, LISTED RESTAURANT (72P7) • GREASE CONTAINER TXD/TXB/STXB 6-16 / STXB24-36 / STXB48 • HINGE KIT STXB/STXD/SDB/SDBD

Consultants: Giallonardo Engineering Inc



PROJECT: Pet Daycare

Customer:

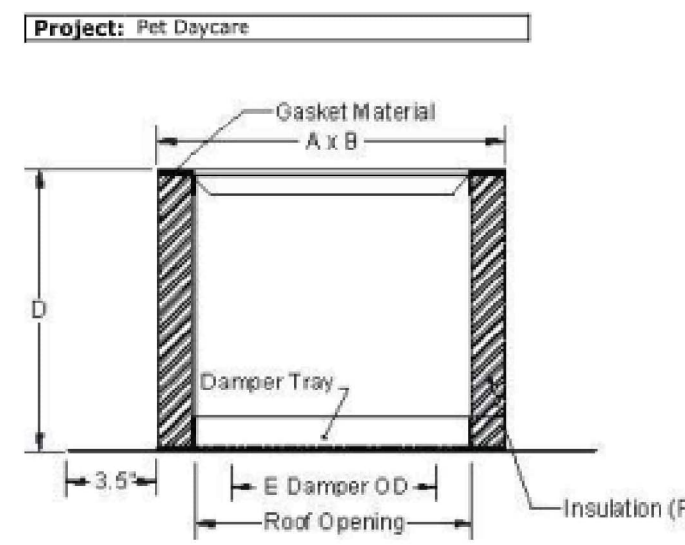
DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	4 of 9



S&P Canada

CURB TYPE: GSF

Model Description: GALVANIZED SELF-FLASHING ROOF CURB
STANDARD FEATURES:
GALVANIZED STEEL CONSTRUCTION • CONTINUOUSLY WELDED CORNERS •



OPTIONS: (as noted below*)

1	NO DAMPER SHELF
2	4 VENTS

Dimensions (Inches)

Tag	Qty	Description	Material Gauge	A	B	C	D (ht)	Damper OD (E)	Roof Opening	Options*	Rise/Run	Insulation (F)	Raised Cant
KEF-1	1	GSF 22.5	18	22.5	22.5	1.5	24	n/a	19.5 X 19.5	1, 2	n/a	n/a	n/a

Consultants:
Giallonardo Engineering Inc



PROJECT:
Pet Daycare

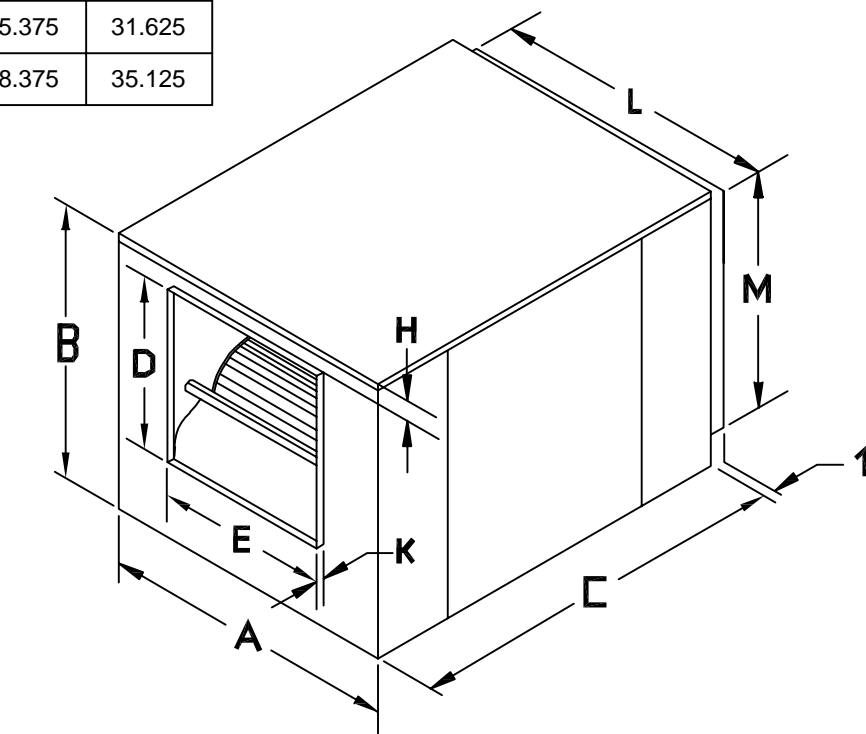
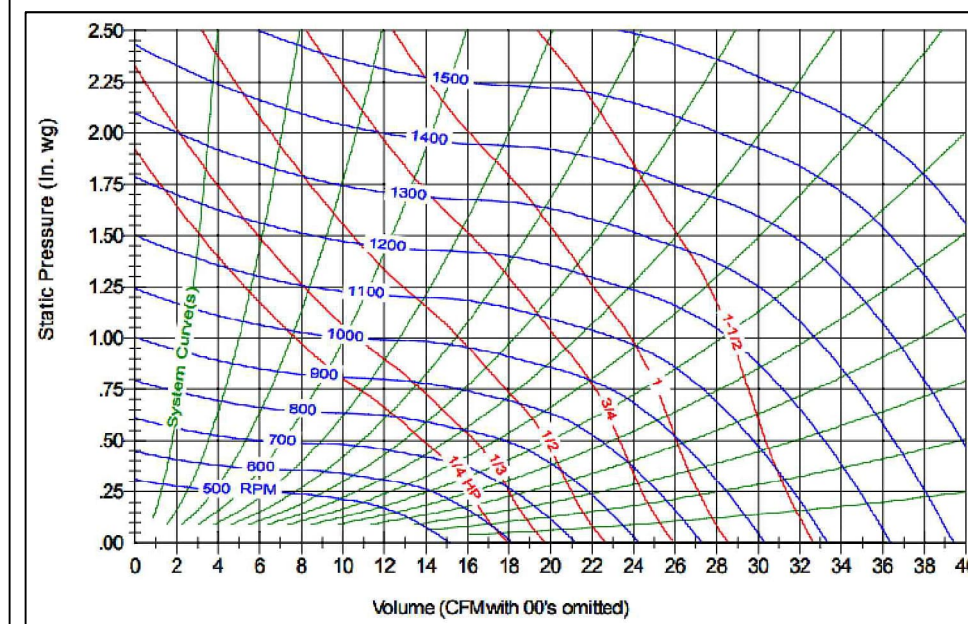
Customer:

DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	5 of 9

FAN DIMENSIONS

FAN MODEL	A	B	C	D	E	H	K	L	M
9209	21	18	23	11.25	12.75	1	1.125	19	16
9210	22.25	20	24.75	12.375	14.125	1	1.125	20.25	18
9212	30.125	24.75	34	14.5	16.625	2.125	1.125	25.125	21.125
9215	33.75	28.625	38.125	17	19.625	2.125	1.125	30.625	25.25
9218	41.5	34	44	19.625	22.625	2.75	1.125	35.375	31.625
9220	44.75	41.125	57.5	25.75	25.75	3	1.125	38.375	35.125

SUPPLY FAN - BLOWER SECTION



Accessories and Features:

- ETL listed and AMCA certified.
- Motor 0.25 HP, (5.0 F.L.A.), 115V/1/60.
- Belt drive with adjustable pulley.
- Weatherproof unfused safety disconnect switch.
- Hood assembly with mesh filters.
- Vibration isolation - spring (outdoor)
- Forward curved wheel provides quiet, low rpm operation.
- Cabinet is galvanized steel for outdoor use.
- Baked on textured green polyethylene powder coat finish.
- Fiberglass insulation reduces noise, condensation, and energy costs.
- Self-aligning Pillow Block Bearings.
- Access panels for convenient motor mounting on either side.

ITEM	QTY	MODEL	Capacity (CFM)	S.P.
SUP-1	1	9210	620	0.75"
RPM	BHP	HP	Weight (Lbs)	Sones
978	0.16	0.25	61	8.6

Consultants:
Giallonardo Engineering Inc



PROJECT:
Pet Daycare

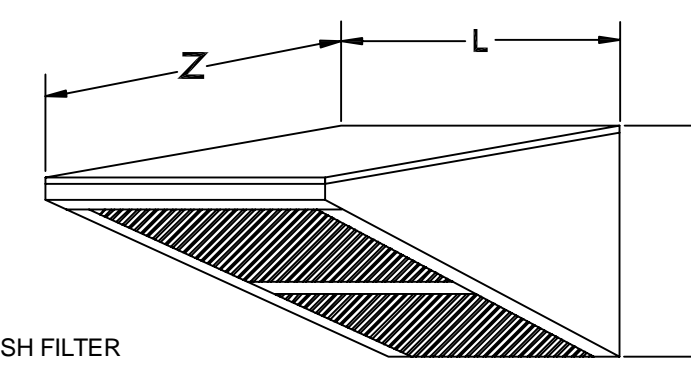
Customer:

DRAWING BY	SCALE	DATE	SHEET
Gianluca L.	None	September 16, 2024	6 of 9

FILTER HOOD SECTION

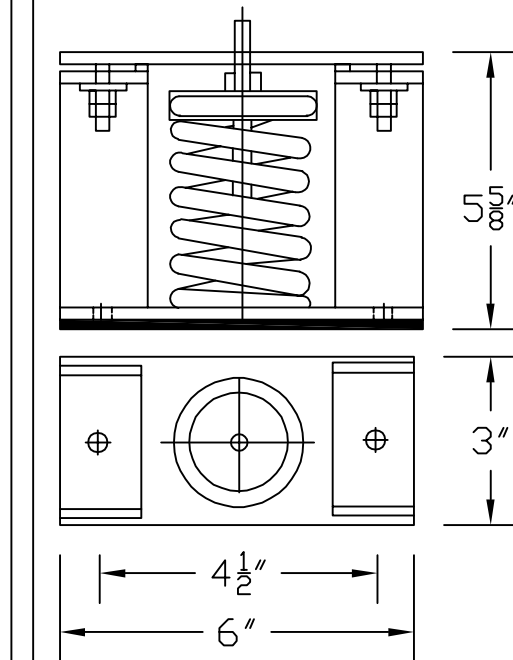
MODEL	L	M	Z	FILTER		UNIT WEIGHT (LBS)
				SIZE	QUANTITY	
H9209	19-1/4"	16-9/16"	21-1/4"	16" X 24"	1	14
H9210	20-1/2"	18-9/16"	25-3/4"	15" X 20"	2	16
H9212	25-3/8"	21-9/16"	30-3/4"	20" X 25" & 16" X 25"	2	27
H9215	31-3/16"	25-13/16"	33-1/2"	20" X 28-1/2"	2	38
H9218	35-5/8"	32-11/16"	40-1/4"	20" X 25"(2) & 16" X 25"	3	50
H9220	38-5/8"	35-9/16"	22"	REQUIRES FILTER HOOD & INTERNAL V-BANK FILTER SECTION	40	

STANDARD FEATURES:
- POWDER COAT FINISH
- 1" THICK ALUMINUM MESH FILTER



SPRING OUTDOOR VIBRATION ISOLATORS

STUD DIAMETER: Ø1/2"



STANDARD FEATURES:
- REDUCES VIBRATION TRANSMISSION
- SUITABLE FOR OUTDOOR USE. HOUSED TO RESIST LATERAL MOVEMENT
- QUANTITY: 4

ELECTRICAL PACKAGE - JOB#7045872

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		TYPE	Ø	HP	VOLT	FLA
1	CP-1	SC-E10011MA	WALL MOUNT IN SS BDX	SS WALL MOUNT BDX	1 LIGHT 1 FAN	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY DIV/DF WITH SUPPLY	EXHAUST	3	0.500	208V	1.9
							SUPPLY	1	0.333	115	5.6



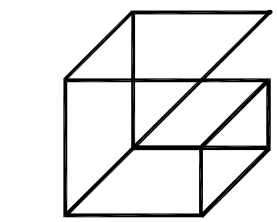
FloAire

JOB Pet Daycare
LOCATION Vaughan, ON, L4L 7B9
DATE 9/16/2024 JOB # 7045872
DWG # 1 DRAWN BY
REV. SCALE 3/8" = 1'-0"



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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
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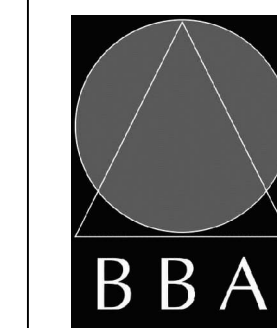
Giallonardo Engineering Inc.
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
KITCHEN EQUIPMENT SPECIFICATIONS II



BARRY BRYAN ASSOCIATES
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Project Managers

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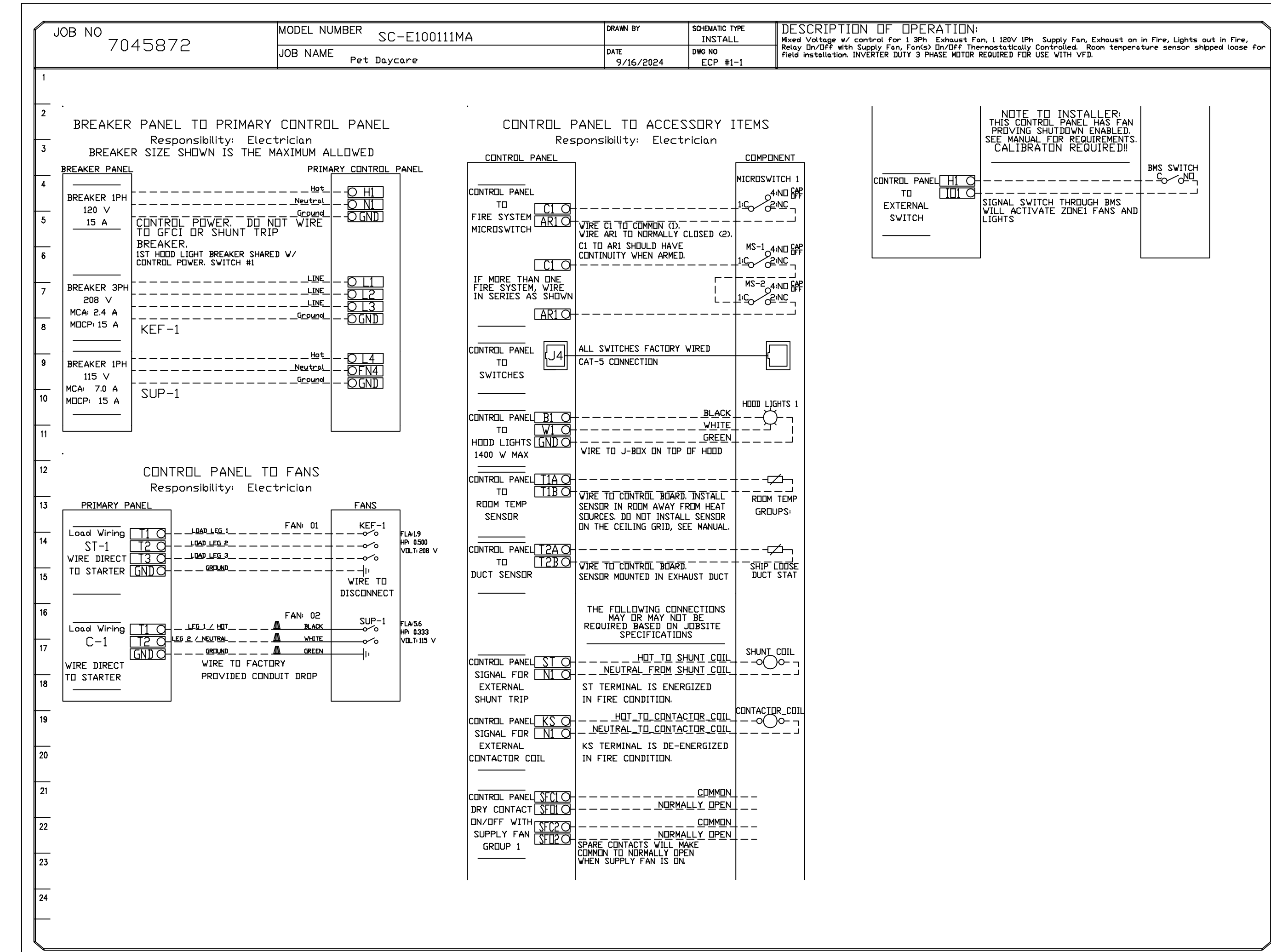
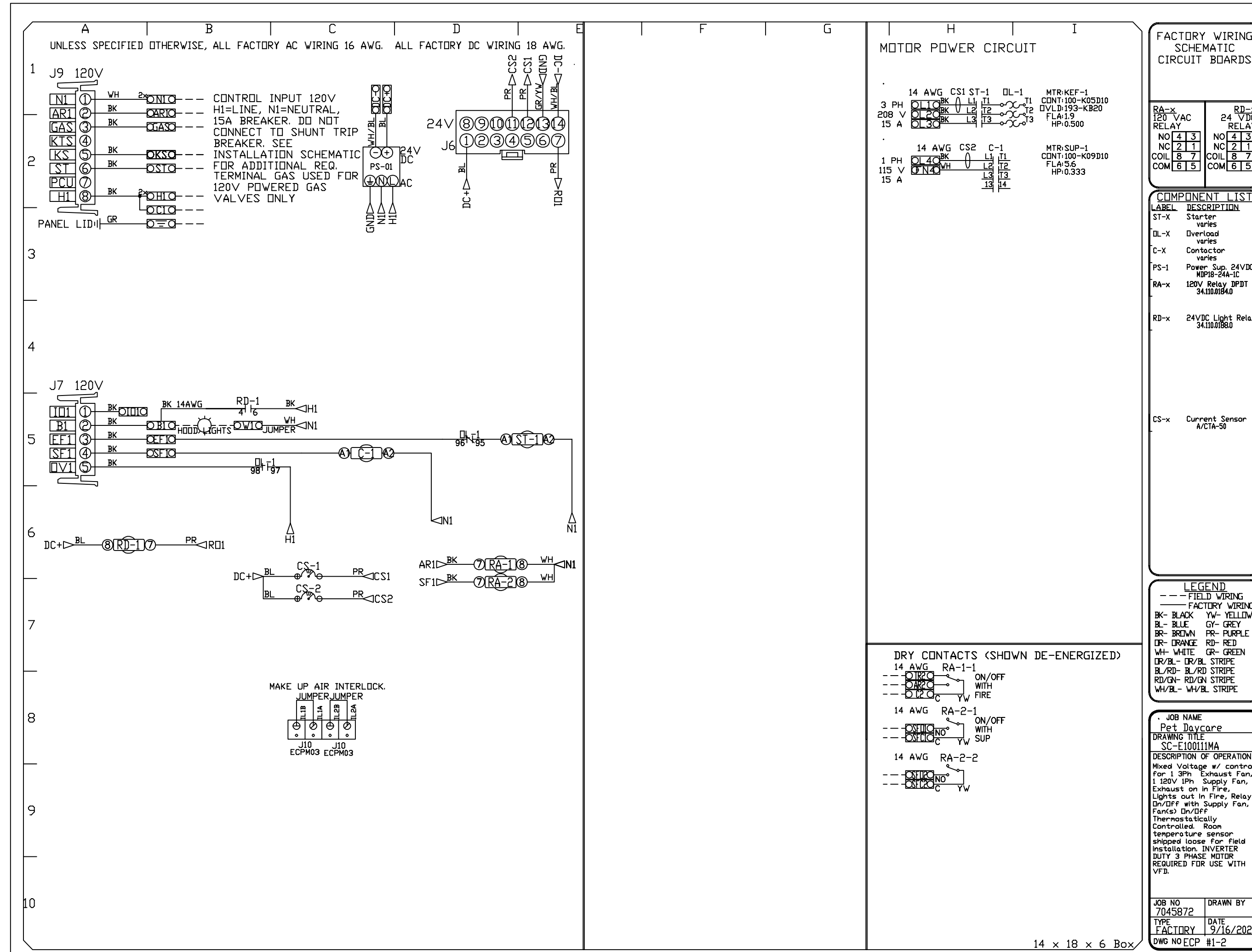


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SCALE:	AS NOTED
FILE:	

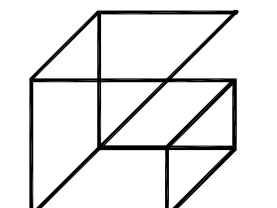
PROJECT NO:
23-108

DRAWING NO:
M-1.7



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 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

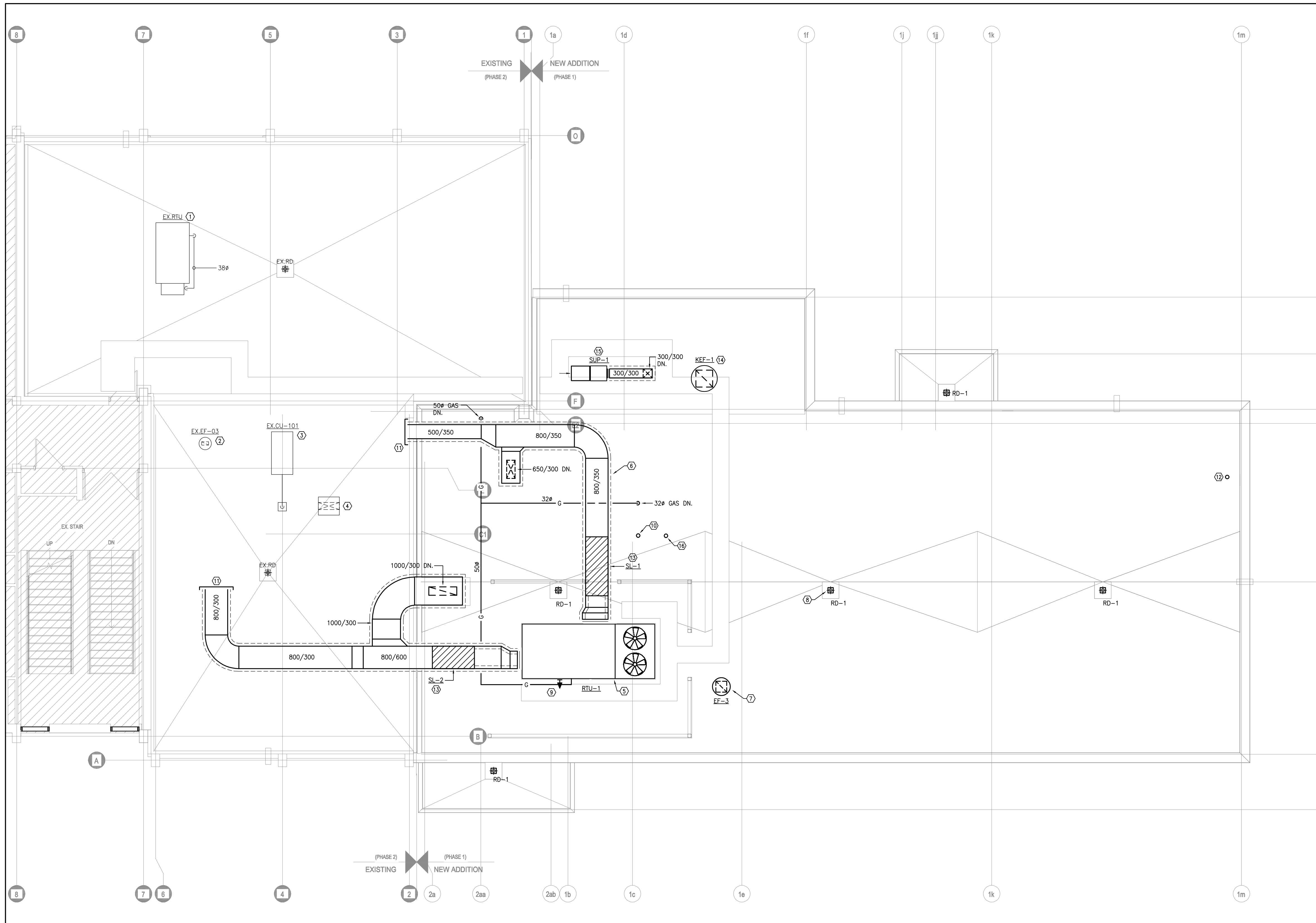
DRAWING:
KITCHEN EQUIPMENT SPECIFICATIONS III

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PROJECT NO: 23-108
DRAWING NO: M-1.8



HVAC NOTES

- ① EXISTING RTU AND ASSOCIATED GAS PIPING TO REMAIN.
- ② EXISTING EXHAUST FAN TO REMAIN.
- ③ EXISTING CONDENSING UNIT AND ASSOCIATED REFRIGERANT PIPING TO REMAIN.
- ④ EXISTING OUTDOOR AIR INTAKE HOOD TO REMAIN.
- ⑤ PROVIDE NEW PACKAGE ROOFTOP UNIT C/W ROOF CURB AS SPECIFIED FOR HORIZONTAL DUCTED INSTALLATION. MANUFACTURER TO PROVIDE UNIT START-UP AND COMMISSIONING FOR PHASE 1.
- ⑥ PROVIDE NEW ROOF MOUNTED SUPPLY/RETURN DUCTWORK C/W THERMAL INSULATION AND ALUMINUM JACKETING. PROVIDE DUCTWORK SUPPORT EQUAL TO EATON DURA-BLOCK B-LINE SERIES ROOF SUPPORT SYSTEM INCLUDING H-FRAME AND UNISTRUT SYSTEM C/W GALVANIZED STEEL SADDLES. SPACE SUPPORTS AT MIN. 1800MM. ENSURE BOTTOM OF DUCT IS MIN. 600MM ABOVE ROOF LEVEL FOR SNOW CLEARANCE.
- ⑦ PROVIDE NEW ROOF MOUNTED EXHAUST FAN AS SPECIFIED C/W ROOF CURB.
- ⑧ PROVIDE NEW ROOF DRAIN AS SPECIFIED (TYPICAL).
- ⑨ PROVIDE NEW GAS PIPING TO RTU IN ACCORDANCE WITH CSA B149 AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE GAS COCK AND DRIP POCKET.
- ⑩ HWT-1 CONCENTRIC VENT TERMINATION THROUGH ROOF.
- ⑪ PROVIDE CAPPED CONNECTION FOR FUTURE PHASE 2 DUCTWORK.
- ⑫ PROVIDE NEW GOOSENECK DUCTWORK C/W BACKDRAFT DAMPER AND BIRDSCREEN.
- ⑬ PROVIDE NEW SILENCER AS SPECIFIED. ENSURE SILENCER IS INSTALLED WITH AIRFLOW DIRECTIONAL ARROWS IN THE DIRECTION OF AIRFLOW AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUPPORT SILENCER INDEPENDENT OF CONNECTING DUCTWORK.
- ⑭ NEW KITCHEN EXHAUST FAN AS SPECIFIED ON ROOF C/W MANUFACTURER SUPPLIED VENTED ROOF CURB. REFER TO SCHEDULES AND DETAILS. ENSURE MINIMUM 3.0m CLEARANCE FROM FRESH AIR INTAKE.
- ⑮ NEW KITCHEN MAKE-UP AIR SUPPLY FAN AS SPECIFIED C/W SPRING VIBRATION ISOLATORS. REFER TO SCHEDULES AND DETAILS.
- ⑯ PROVIDE NEW 100# E/A GOOSENECK DUCTWORK SERVING CLOTHES DRYER. DUCTWORK SHALL BE ALUMINUM TYPE 3003-H-14 IN ACCORDANCE WITH SMACNA AND ASHRAE STANDARDS.

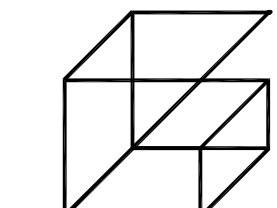
GENERAL HVAC NOTES

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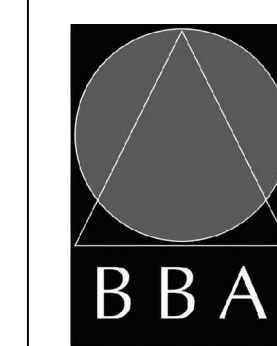
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
PHASE 1 ROOF NEW PLAN - MECHANICAL



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

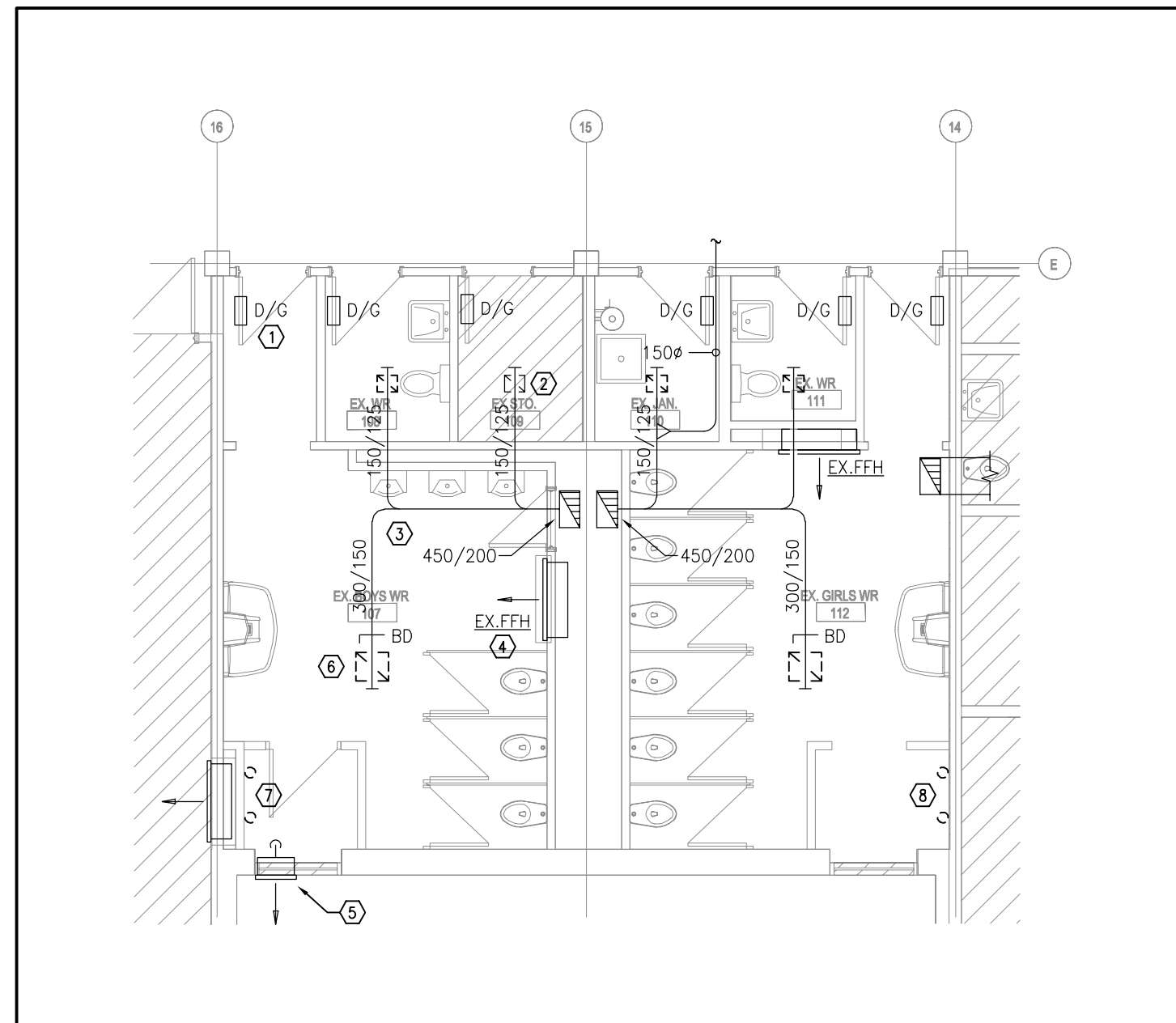
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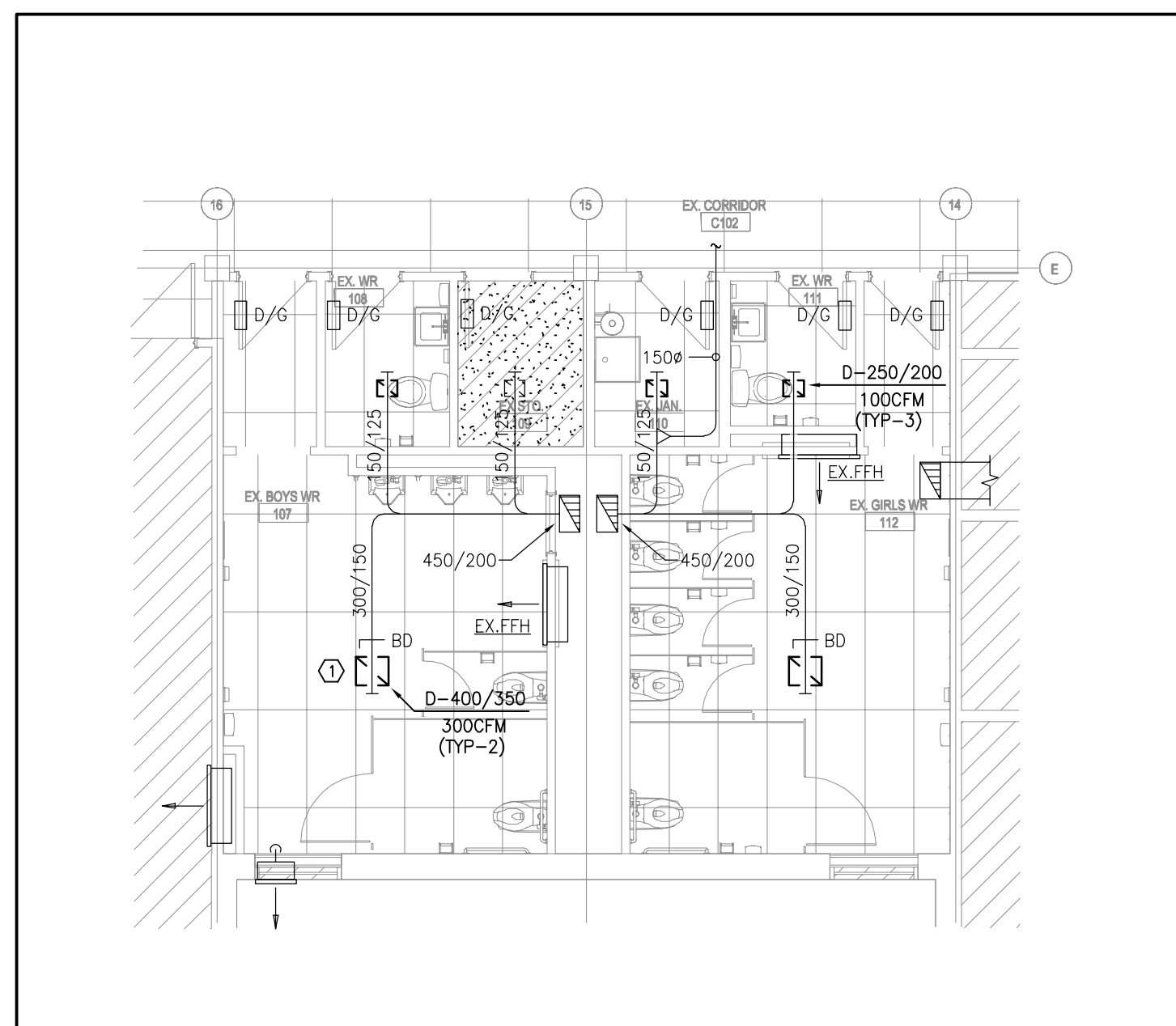
1 PHASE 1 ROOF NEW PLAN - MECHANICAL
M-2.3
1:75



1
M-2.5
1/75
WASHROOM 107, 108, 111 & 112 DEMOLITION PLAN - HVAC

- HVAC NOTES**
- ① EXISTING DOOR GRILLE TO REMAIN (TYP-6).
 - ② EXISTING EXHAUST GRILLE TO REMAIN.
 - ③ EXISTING EXHAUST DUCTWORK TO REMAIN (TYPICAL).
 - ④ EXISTING HYDRONIC FORCE FLOW HEATER TO REMAIN (TYP-2).
 - ⑤ EXISTING EXHAUST LOUVER AND ASSOCIATED DUCTWORK DOWN THROUGH SLAB C/W FIRE DAMPER TO REMAIN.
 - ⑥ EXISTING EXHAUST GRILLE TO BE REMOVED AND DISPOSED OF (TYP-5).
 - ⑦ EXISTING CAPPED HWS/HWR PIPING TO BE REMOVED AND CAPPED IN CEILING SPACE OF FLOOR BELOW. FLOOR PENETRATIONS TO BE SEALED AND RESTORED TO MATCH BASE BUILDING STANDARDS.
 - ⑧ EXISTING CAPPED HWS/HWR PIPING TO BE REMOVED AND CAPPED BELOW SLAB ON GRADE. FLOOR PENETRATIONS TO BE SEALED AND RESTORED TO MATCH BASE BUILDING STANDARDS.

- GENERAL HVAC NOTES**
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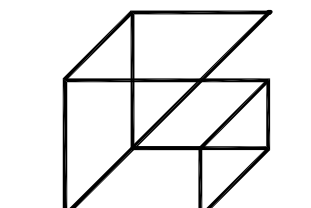
2
M-2.5
1/75
WASHROOM 107, 108, 111 & 112 NEW PLAN - HVAC

- HVAC NOTES**
- ① PROVIDE NEW LOUVERED FACE E/A GRILLE AS SPECIFIED INSTALLED IN NEW T-BAR CEILING. CONNECT TO EXISTING MAIN EXHAUST DUCTWORK IN CEILING SPACE (TYPICAL).

- GENERAL HVAC NOTES**
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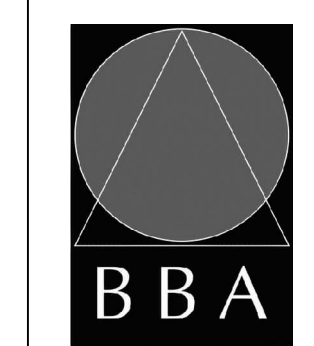
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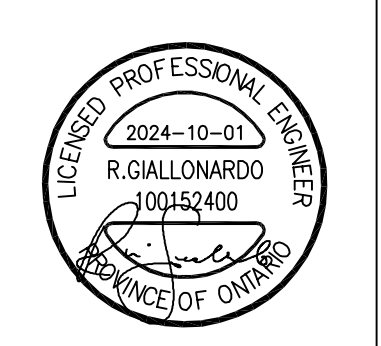
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65 Grace Street Toronto

DRAWING:
PHASE 1 GROUND FLOOR WASHROOM PLAN - HVAC



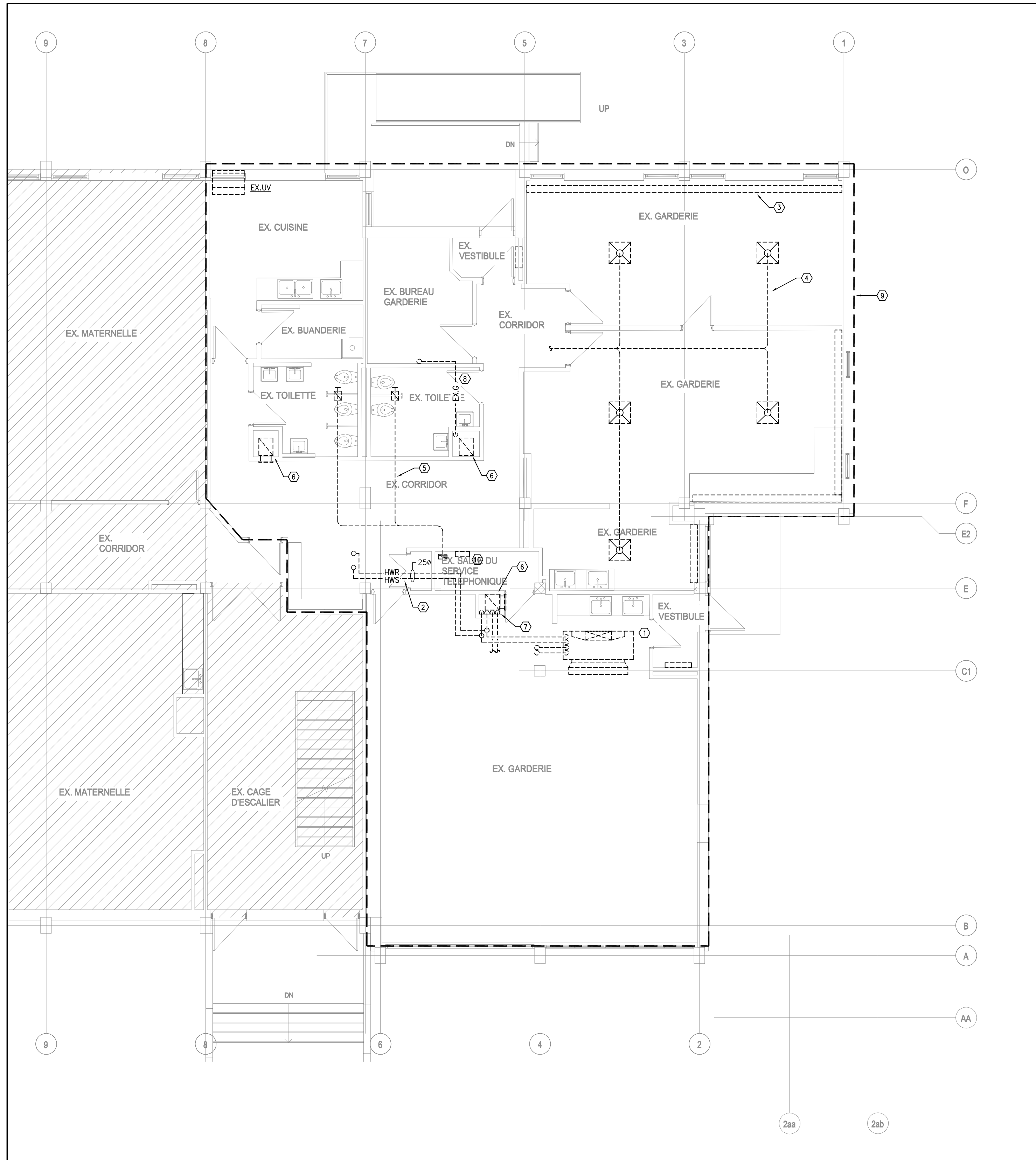
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- HVAC NOTES**
- ① EXISTING UNIT VENTILATOR TO BE REMOVED IN ITS ENTIRETY, INCLUDING ALL CONTROLS, STANDS, SUPPORTS, DUCTWORK, AND REFRIGERANT/HYDRONIC PIPING.
 - ② EXISTING HWS/HWR PIPING SERVING HEATER ON FLOOR ABOVE TO BE REMOVED BACK TO WHERE SHOWN. REFER TO NEW FLOOR PLANS FOR NEW PIPING CONNECTIONS.
 - ③ EXISTING HYDRONIC HEATER TO BE REMOVED AND DISPOSED OF. REMOVE HWS/HWR PIPING BACK TO TUNNEL ON FLOOR BELOW AND CAP AT MAIN (TYPICAL).
 - ④ REMOVE AND DISPOSE OF ALL DUCTWORK AND DIFFUSERS FROM EXISTING PACKAGED RTU ON ROOF.
 - ⑤ EXISTING EXHAUST DUCTWORK, GRILLES AND ASSOCIATED ROOF MOUNTED FAN TO BE REMOVED AND DISPOSED INCLUDING ALL ASSOCIATED CONTROLS, HANGERS, SUPPORTS, ETC.
 - ⑥ EXISTING EXHAUST RISER TO BE REMOVED DOWN TO TUNNEL IN FLOOR BELOW AND CAPPED AT MAIN DUCT.
 - ⑦ EXISTING HWS/HWR PIPING TO BE REMOVED DOWN TO TUNNEL ON FLOOR BELOW AND CAPPED AT MAIN.
 - ⑧ EXISTING GAS PIPING TO BE REMOVED AND DISPOSED OF.
 - ⑨ ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, GRILLES, PIPING, ETC. SERVING THIS AREA TO BE REMOVED AND DISPOSED OF.
 - ⑩ EXISTING BAS PANEL TO BE REMOVED AND RETAINED FOR REINSTALLATION WHERE SHOWN ON NEW PLANS.

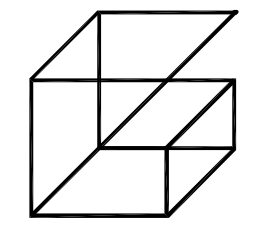
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1 PHASE 2 GROUND FLOOR DEMOLITION PLAN - HVAC
M-2.6 1/75



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65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR DEMOLITION PLAN - HVAC



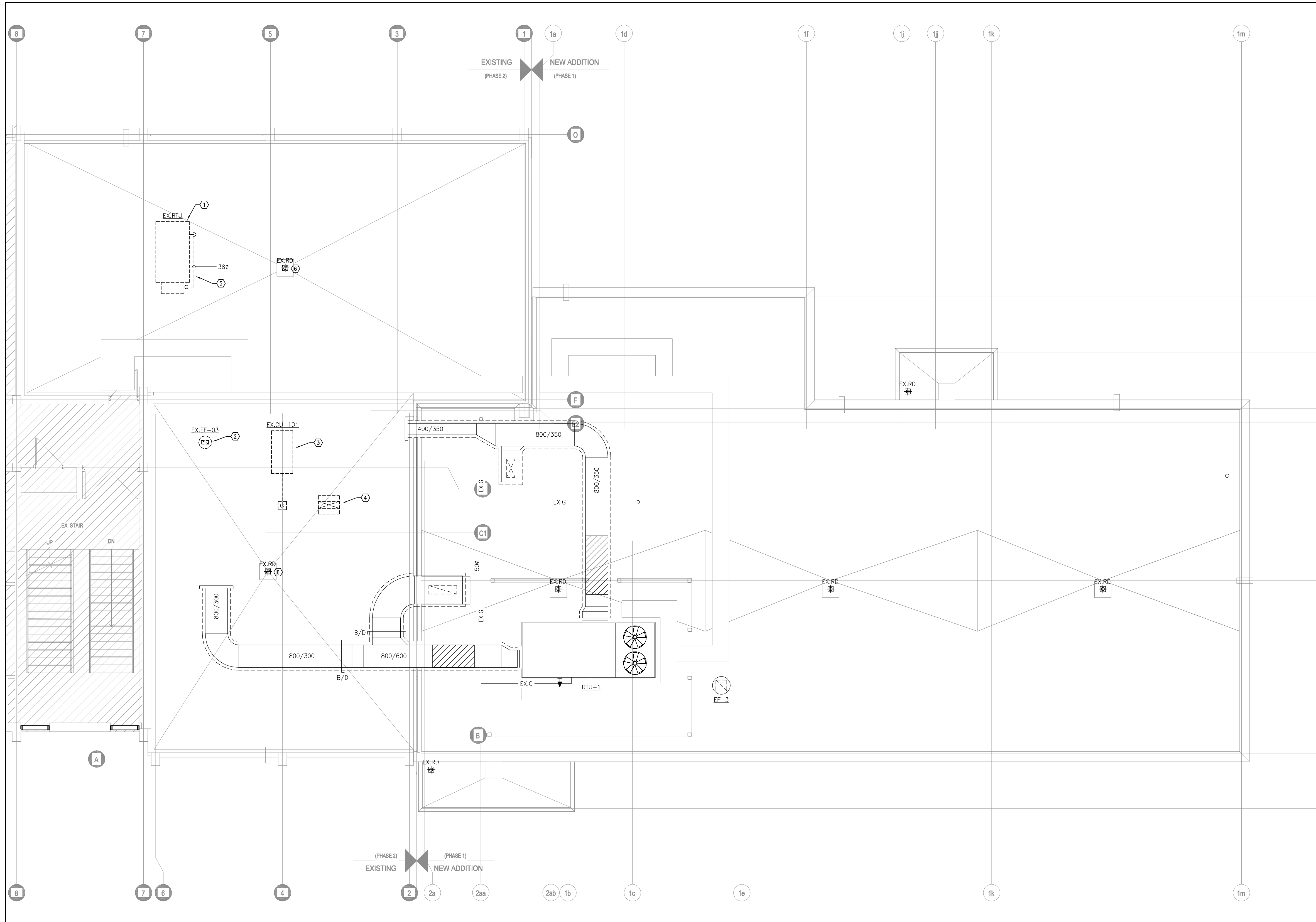
BARRY BRYAN ASSOCIATES
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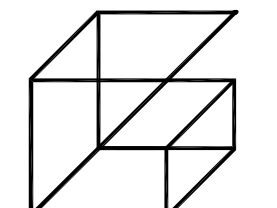
- HVAC NOTES**
- EXISTING RTU AND ALL ASSOCIATED DUCTWORK, SUPPORTS, CURB, CONTROLS ETC. TO BE COMPLETELY REMOVED AND DISPOSED OF.
 - EXISTING EXHAUST FAN AND ALL ASSOCIATED DUCTWORK, SUPPORTS, CURB, CONTROLS ETC. TO BE COMPLETELY REMOVED AND DISPOSED OF.
 - EXISTING CONDENSING UNIT AND ALL ASSOCIATED REFRIGERANT PIPING, HYDRONIC PIPING, STAND, DOGHOUSE, CONTROLS ETC. TO BE COMPLETELY REMOVED AND DISPOSED OF.
 - EXISTING G/A INTAKE HOOD TO BE REMOVED AND DISPOSED OF.
 - EXISTING GAS PIPING SERVING RTU TO BE REMOVED AND DISPOSED OF.
 - EXISTING ROOF DRAIN TO BE REMOVED AND DISPOSED OF. REMOVE ASSOCIATED STORM DRAINAGE PIPING TO BELOW ROOF STRUCTURE.

- GENERAL HVAC NOTES**
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01	ISSUED FOR 80% REVIEW	23/03/06	SW
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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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PROJECT:
GARDARIE LA FARANDOLE
 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 ROOF DEMOLITION PLAN - MECHANICAL

1 PHASE 2 ROOF DEMOLITION PLAN - HVAC
 M-2.7
 1:75

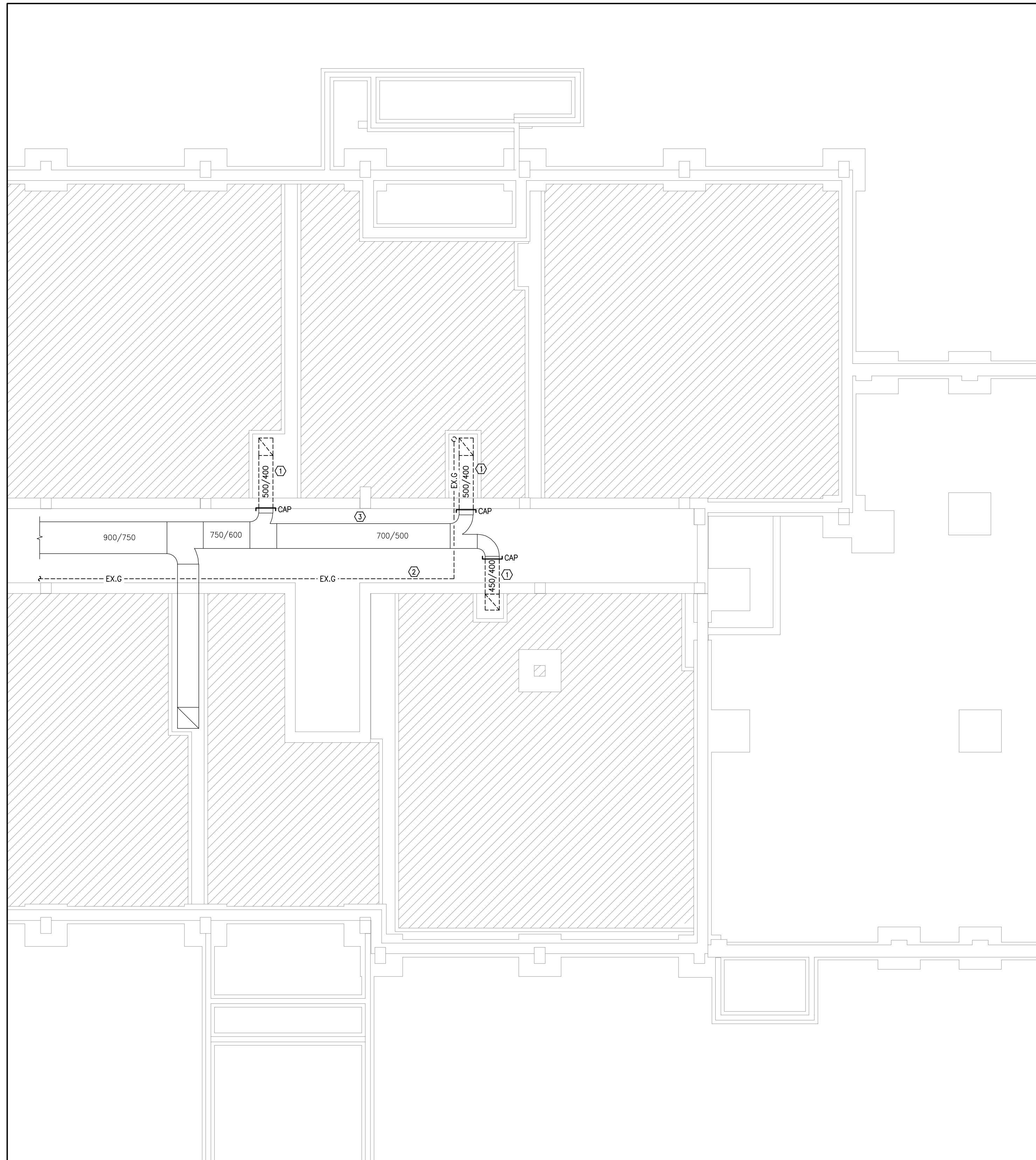


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PROJECT NO: **23-108** DRAWING NO: **M-2.7**



- HVAC NOTES**
- ① EXISTING EXHAUST DUCTWORK TO BE REMOVED AND CAPPED AT MAIN IN TUNNEL.
 - ② EXISTING GAS PIPING TO BE COMPLETELY REMOVED BACK TO CONNECTION IN BOILER ROOM.
 - ③ EXISTING EXHAUST DUCTWORK TO REMAIN.

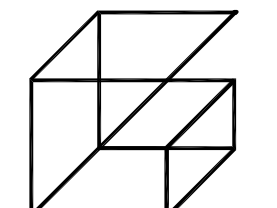
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1 PHASE 2 BASEMENT DEMOLITION PLAN - HVAC
M-2.8 1/75



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PROJECT:
GARDARIE LA FARANDOLE

 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 BASEMENT DEMOLITION PLAN - HVAC



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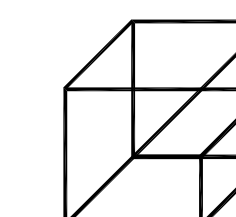


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PROJECT NO: **23-108** DRAWING NO: **M-2.8**

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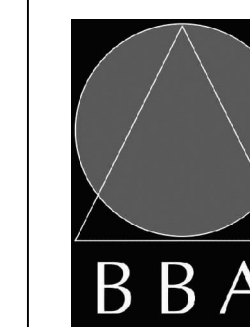
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**PROJECT:
GARDARIE LA
FARANDOLE**

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

**DRAWING:
PHASE 2 BASEMENT
DEMOLITION PLAN -
HYDRONIC PIPING SYSTEM**

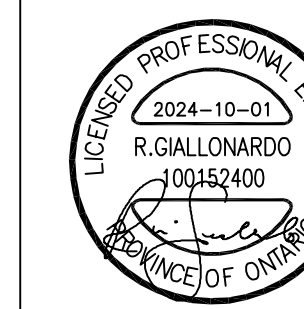


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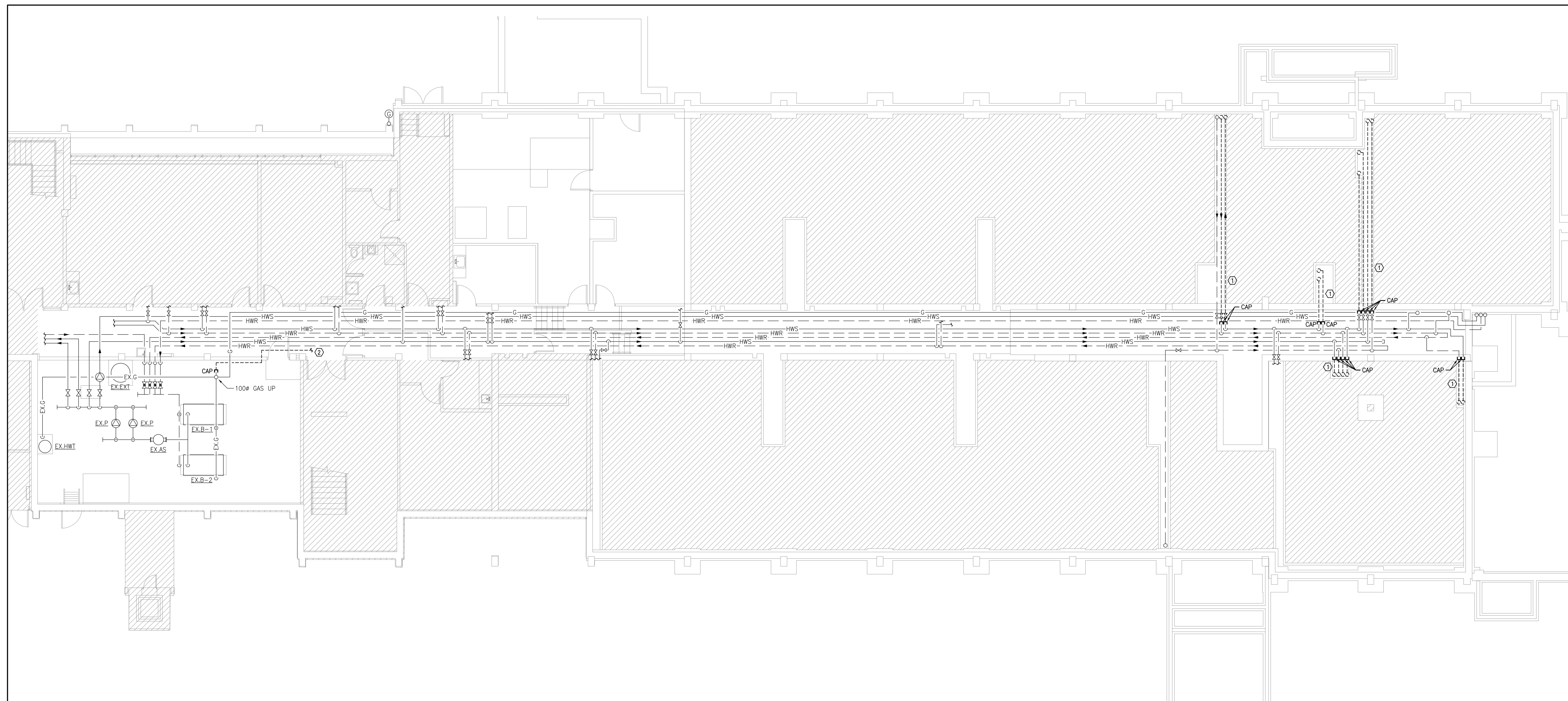
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PROJECT NO: 23-108

DRAWING NO: M-2.9

23-108

M-2.9



1 PHASE 2 BASEMENT DEMOLITION PLAN - HYDRONIC PIPING SYSTEM
M-2.9 1:100

HVAC NOTES

① EXISTING HWS/HWR PIPING RISERS UP TO FLOOR ABOVE TO BE REMOVED BACK TO MAIN IN TUNNEL AND CAPPED.

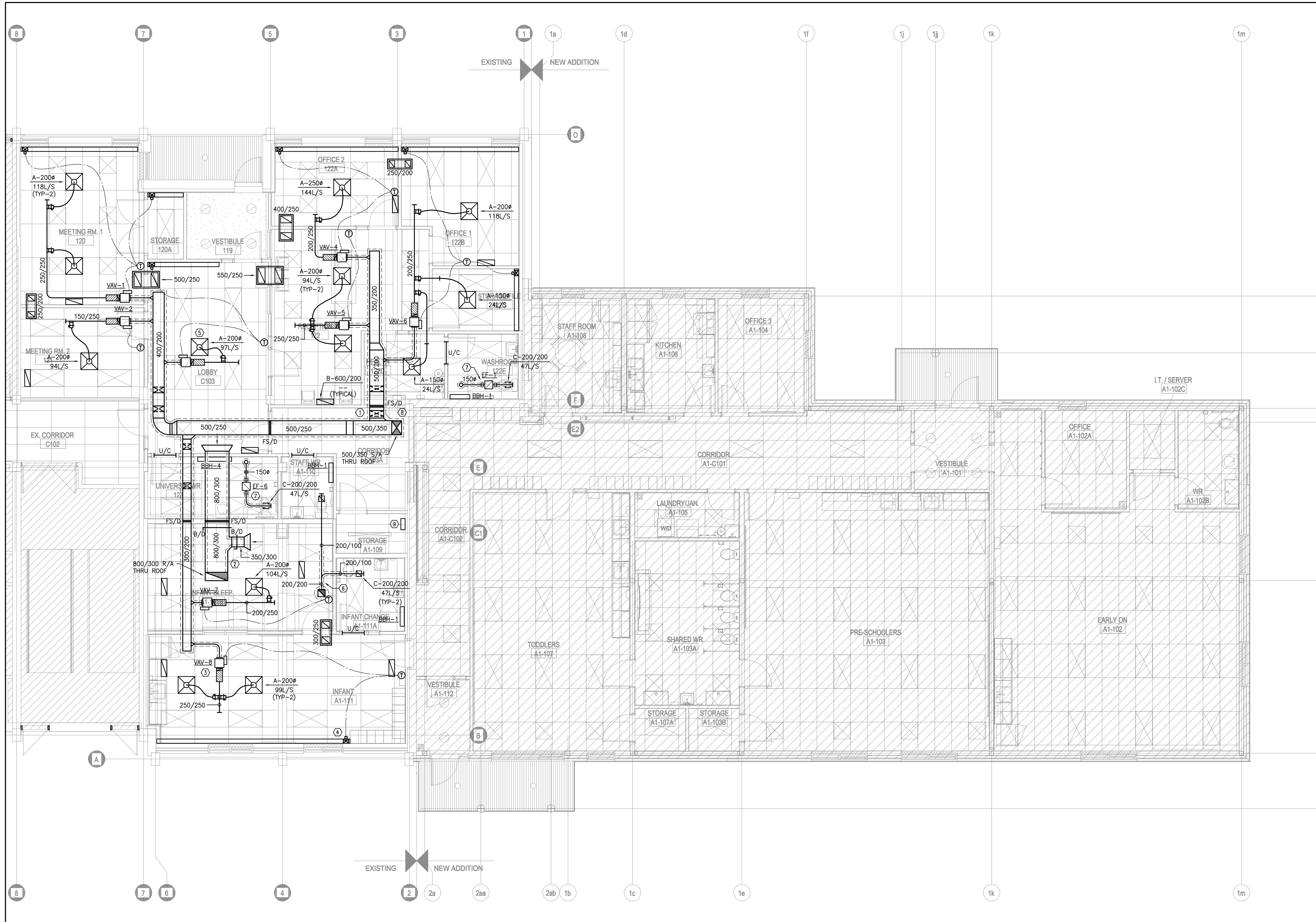
② EXISTING GAS PIPING TO BE REMOVED AND DISPOSED OF. REFER TO DRAWING M-2.8 FOR CONTINUATION.

GENERAL HVAC NOTES

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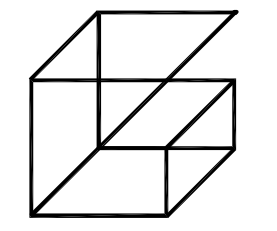
- HVAC NOTES**
1. PROVIDE NEW THERMALLY INSULATED SUPPLY AIR DUCTWORK IN CEILING SPACE (TYPICAL).
 2. PROVIDE NEW RETURN AIR DUCTWORK IN CEILING SPACE (TYPICAL).
 3. PROVIDE NEW VAV TERMINAL UNIT AS SPECIFIED. CONTROLLER AND SPACE TEMPERATURE SENSOR SHALL BE PROVIDED BY BAS CONTRACTOR (TYPICAL).
 4. INTERLOCK FIN-TUBE HEATER CONTROL VALVE WITH SPACE TEMPERATURE SENSOR AS INDICATED (TYPICAL).
 5. PROVIDE NEW SUPPLY AIR DIFFUSER AS SPECIFIED. BALANCE AS INDICATED (TYPICAL).
 6. PROVIDE NEW EXHAUST DUCTWORK UP TO ROOF MOUNTED FAN.
 7. PROVIDE NEW INLINE CABINET EXHAUST FAN AS SPECIFIED. TERMINATE DUCTWORK ON ROOF C/W GOOSENECK AND BIRDSCREEN. REFER TO ROOF PLAN.
 8. PROVIDE UL LISTED COMBINATION FIRE SMOKE DAMPER (120V). INSTALL IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE ACCESS TO DAMPER IN ACCORDANCE WITH NFPA 80. COORDINATE POWER AND FIRE ALARM INTERLOCKS WITH DIV. 26 (TYPICAL).
 9. NEW LOCATION OF EXISTING BAS PANEL. PROVIDE NEW / EXTEND EXISTING WIRING AS REQUIRED TO SUIT NEW LOCATION.

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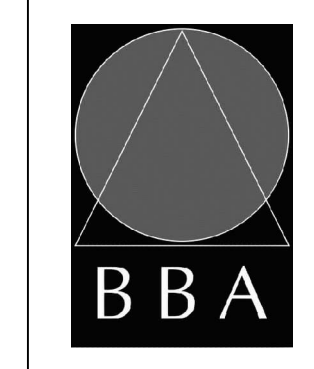
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**PHASE 2 GROUND FLOOR
 NEW PLAN - HVAC**

1 PHASE 2 GROUND FLOOR NEW PLAN - HVAC
 M-2.10 1:75



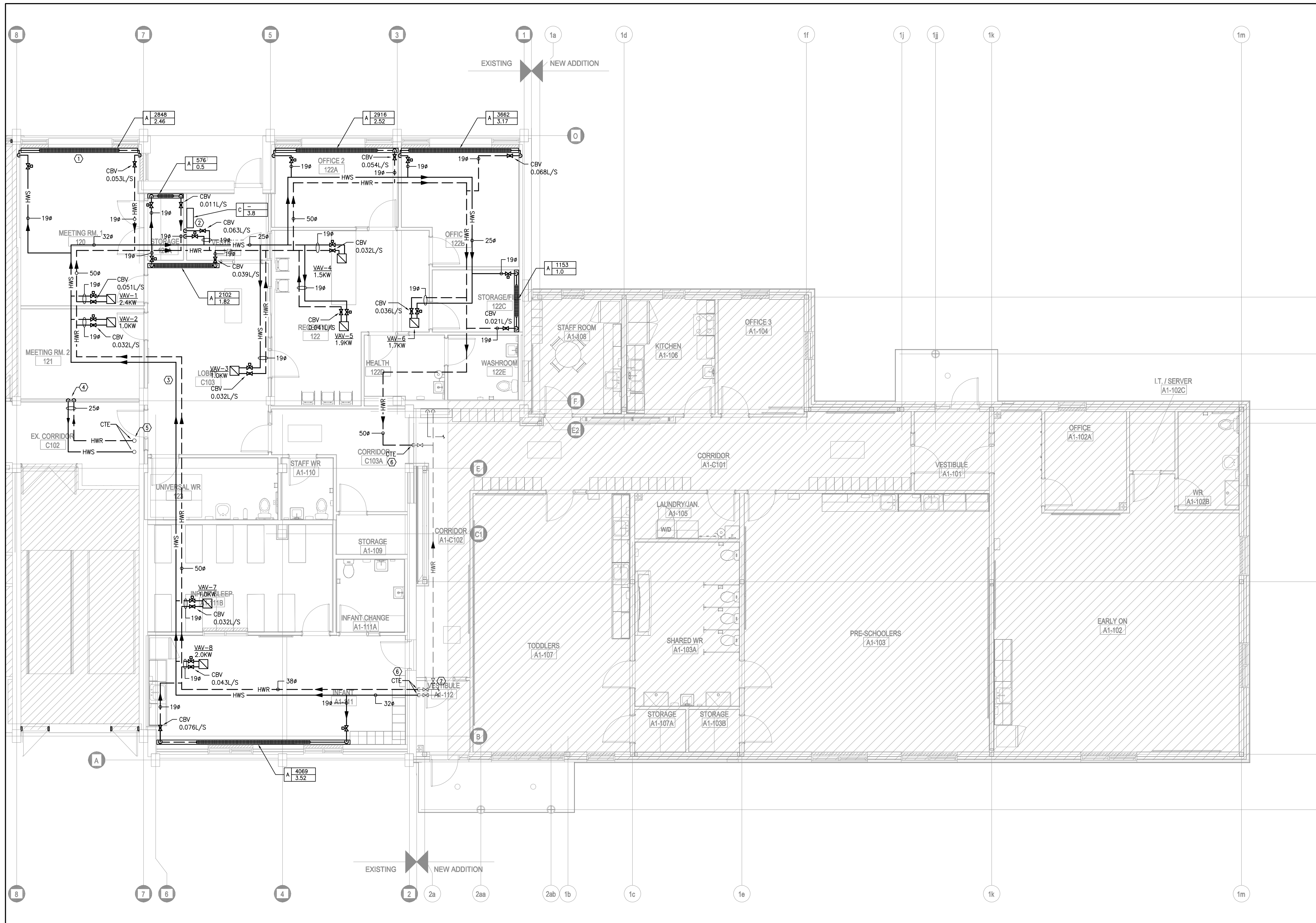
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PROJECT NO: **23-108** DRAWING NO: **M-2.10**



HVAC NOTES

- ① PROVIDE FIN TUBE HEATER C/W ENCLOSURE AS SPECIFIED. ENCLOSURE LENGTH SHALL SPAN WALL TO WALL UNLESS OTHERWISE SHOWN (TYPICAL).
- ② PROVIDE SURFACE MOUNTED CABINET FORCE FLOW HEATER AS SPECIFIED C/W BUILT IN THERMOSTAT (TYP-3).
- ③ PROVIDE NEW HWS/HWR PIPING IN CEILING SPACE (TYPICAL).
- ④ HWS/HWR RISERS DOWN TO TUNNEL ON FLOOR BELOW.
- ⑤ RECONNECT HWS/HWR PIPING TO EXISTING RISER SERVING HYDRONIC HEATER ON FLOOR ABOVE.
- ⑥ CONNECT TO EXISTING CAPPED CONNECTIONS PROVIDED IN PHASE 1.
- ⑦ EXISTING HWR BYPASS VALVE TO BE CLOSED AS PART OF PHASE 2.

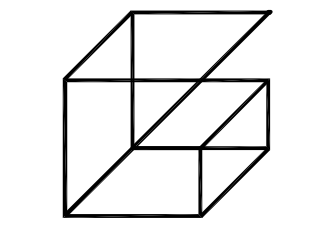
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4. CONTROL VALVE AND CBV ARE SHOWN ON PIPING IN CEILING FOR CLARITY ONLY. REFER TO FIN-TUBE HEATER AND CONVECTOR UNIT DETAIL FOR EXACT VALVE LOCATIONS AND PIPING CONFIGURATION.



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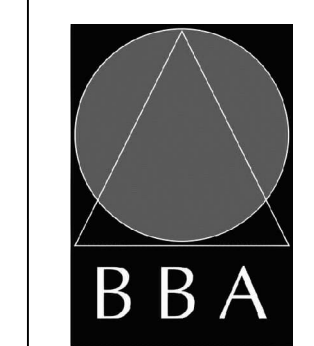
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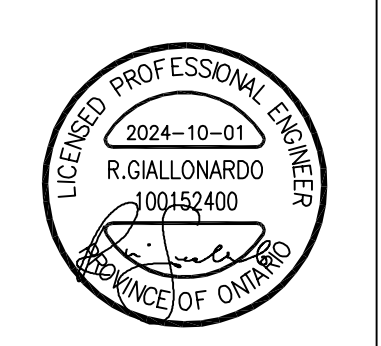
PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR NEW PLAN - HYDRONIC PIPING SYSTEM



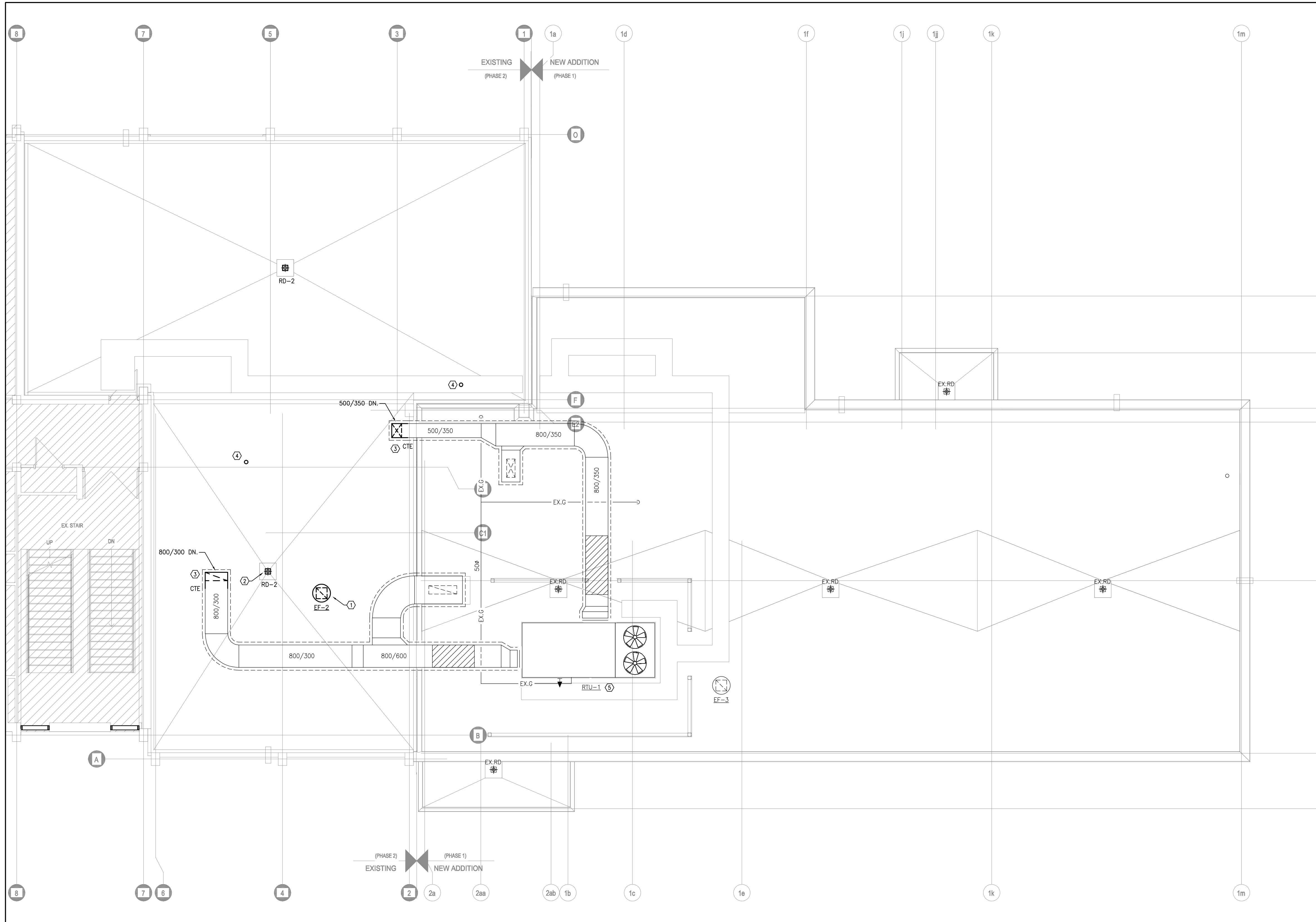
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PROJECT NO: **23-108** DRAWING NO: **M-2.11**

1 PHASE 2 GROUND FLOOR NEW PLAN - HYDRONIC PIPING SYSTEM
 M-2.11 1:75



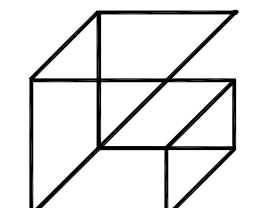
- HVAC NOTES**
- ① PROVIDE NEW ROOF MOUNTED EXHAUST FAN AS SPECIFIED C/W ROOF CURB.
 - ② PROVIDE NEW ROOF DRAIN AS SPECIFIED (TYPICAL).
 - ③ REMOVE CAP AND CONNECT NEW ROOF MOUNTED SUPPLY/RETURN DUCTWORK C/W THERMAL INSULATION AND ALUMINUM JACKETING TO EXISTING CAPPED CONNECTION PROVIDED IN PHASE 1. PROVIDE DUCTWORK SUPPORT EQUAL TO EATON DURA-BLOCK B-LINE SERIES ROOF SUPPORT SYSTEM INCLUDING H-FRAME AND UNISTRUT SYSTEM C/W GALVANIZED STEEL SADDLES. SPACE SUPPORTS AT MIN. 1800MM. ENSURE BOTTOM OF DUCT IS MIN. 600MM ABOVE ROOF LEVEL FOR SNOW CLEARANCE.
 - ④ PROVIDE NEW GOOSENECK ON EXHAUST DUCTWORK TERMINATION C/W BIRDSCREEN.
 - ⑤ ROOFTOP UNIT MANUFACTURER TO PROVIDE UNIT COMMISSIONING FOR PHASE 2.

- GENERAL HVAC NOTES**
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PROJECT:
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Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 ROOF NEW PLAN - MECHANICAL

1 PHASE 2 ROOF NEW PLAN - MECHANICAL
 M-2.12 1:75

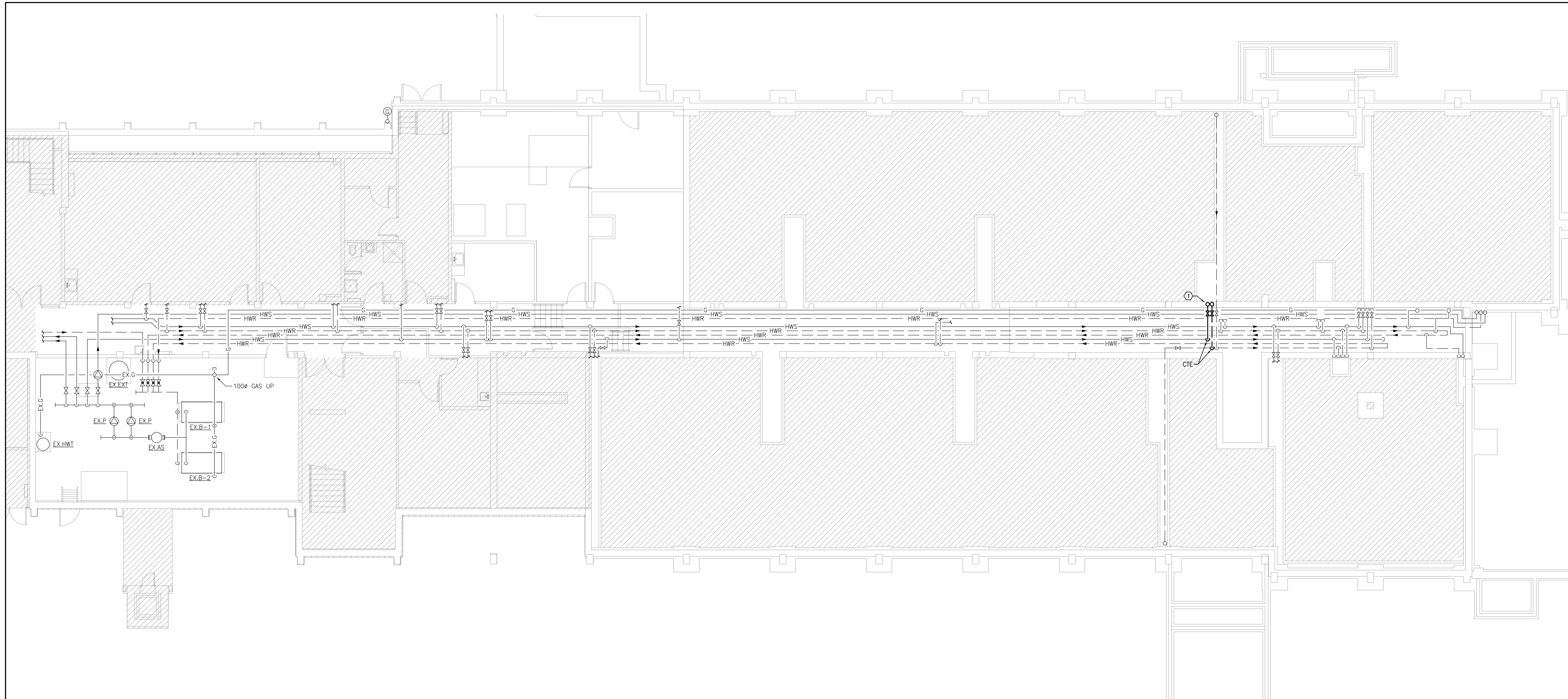


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PROJECT NO: **23-108** DRAWING NO: **M-2.12**



1 PHASE 2 BASEMENT NEW PLAN - HYDRONIC PIPING SYSTEM
M-2.13 1:100

HVAC NOTES

① PROVIDE NEW HWS/HWR PIPING TO FLOOR ABOVE. CONNECT TO EXISTING MAIN IN TUNNEL WHERE SHOWN.

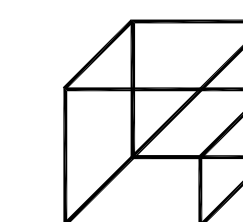
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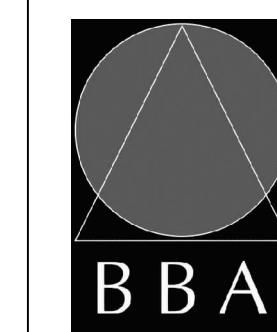
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
PHASE 2 BASEMENT NEW PLAN - HYDRONIC PIPING SYSTEM



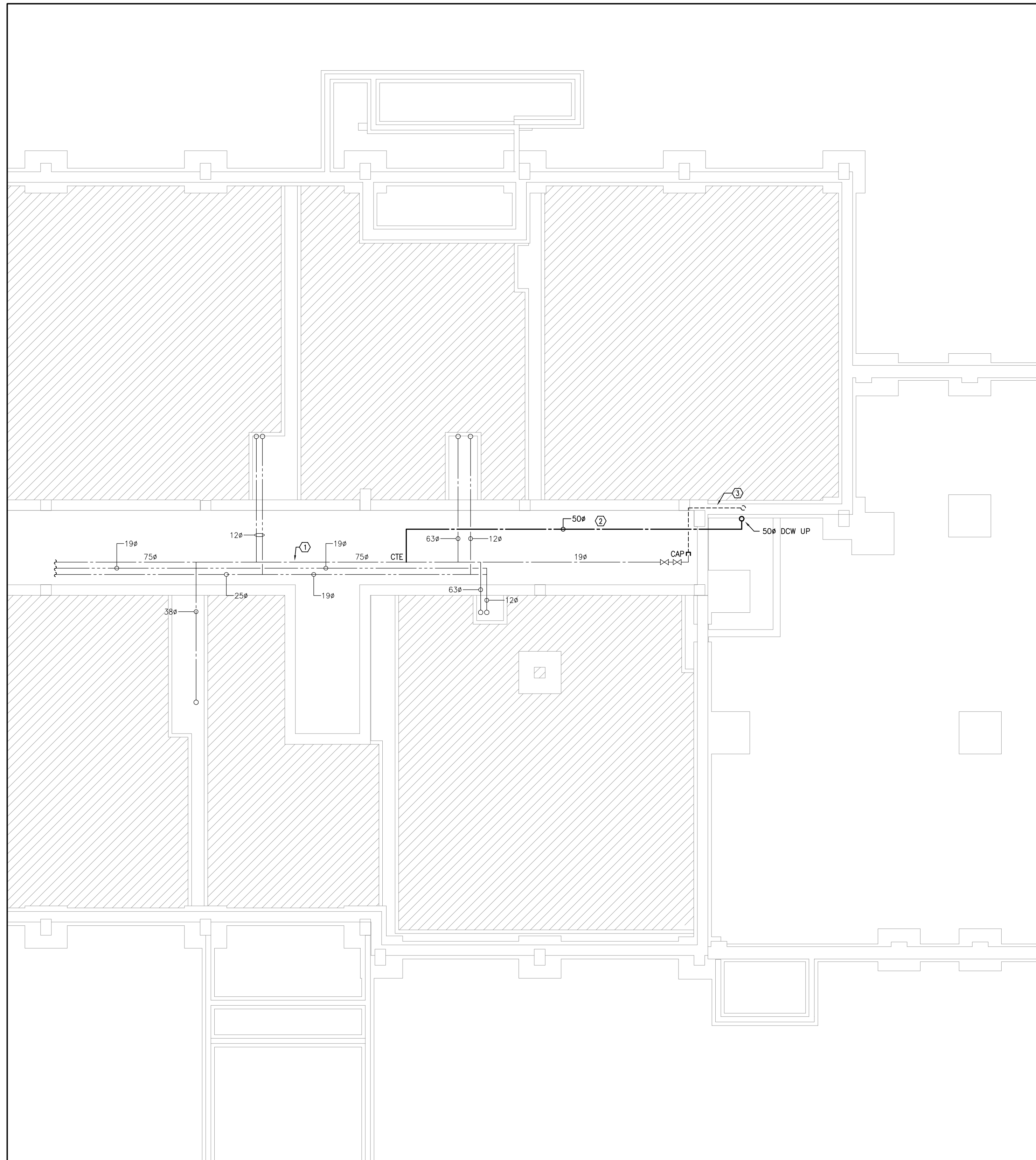
BARRY BRYAN ASSOCIATES
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Project Managers

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PROJECT NO: **23-108** DRAWING NO: **M-2.13**



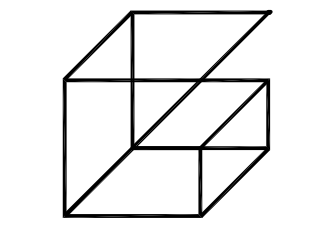
- PLUMBING NOTES**
- ① EXISTING DCW/DHW/DHWR PIPING IN TUNNEL TO REMAIN (TYPICAL).
 - ② PROVIDE NEW DCW PIPING UP TO FLOOR ABOVE. CONNECT TO MAIN IN TUNNEL WHERE INDICATED.
 - ③ EXISTING DCW PIPING SERVING HOSE BIBB ON FLOOR ABOVE TO BE REMOVED AND CAPPED AT MAIN IN TUNNEL.
- GENERAL NOTES**
1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.

1 PHASE 1 BASEMENT NEW PLAN - PLUMBING
M-3.2 1/75



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
02	ISSUED FOR PERMIT	24/05/30	SW
03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

NO.	REVISIONS	DATE	BY

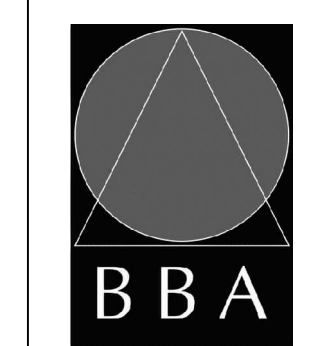


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PROJECT:
GARDARIE LA FARANDOLE
 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 1 BASEMENT NEW PLAN - PLUMBING

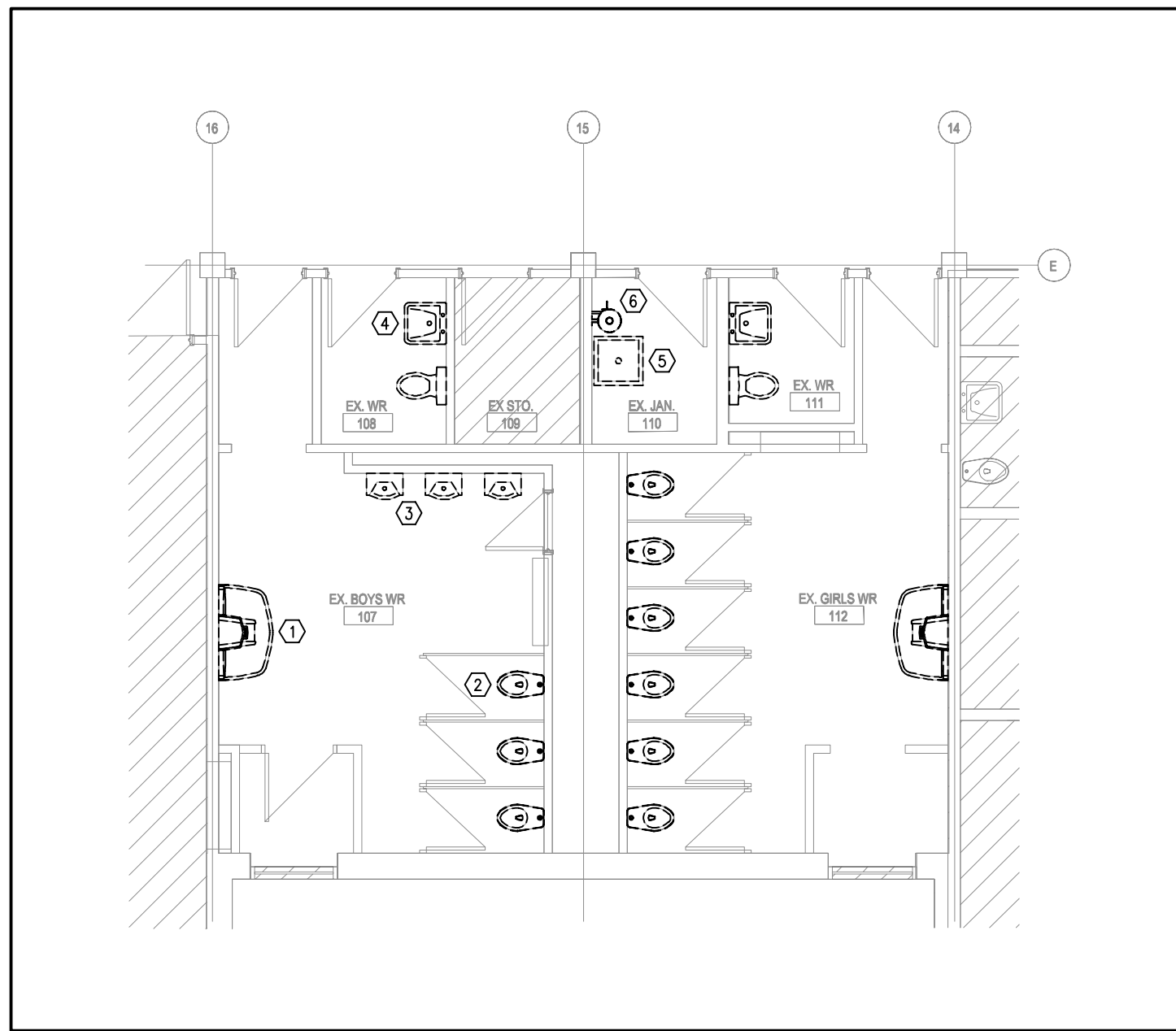


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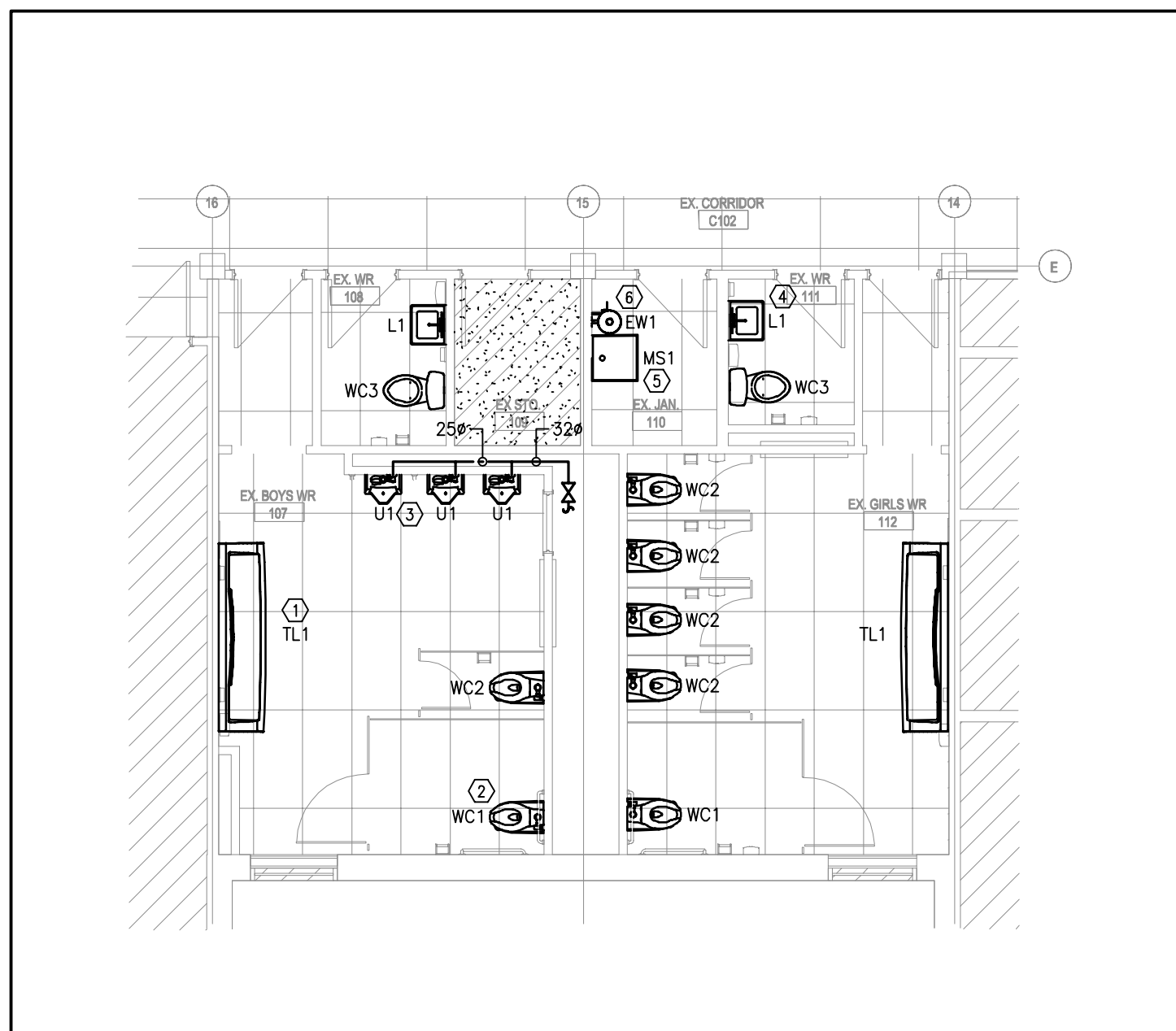
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PROJECT NO: **23-108** DRAWING NO: **M-3.2**



1 WASHROOM 107, 108, 111 & 112 DEMOLITION PLAN - P&D
M-3.3 1/75

- PLUMBING NOTES
- ① EXISTING WASH BASIN TO BE REMOVED AND DISPOSED OF. PREPARE EXISTING PLUMBING AND DRAINAGE ROUGH-IN FOR INSTALLATION OF NEW WASH BASIN (TYPICAL).
 - ② EXISTING WATER CLOSET TO BE REMOVED AND DISPOSED OF. THOROUGHLY CLEAN AND REPAIR EXISTING TOILET FLANGE AND PREPARE FOR INSTALLATION OF NEW WATER CLOSET (TYPICAL).
 - ③ EXISTING WATERLESS URINAL TO BE REMOVED AND DISPOSED OF. PREPARE EXISTING DRAINAGE ROUGH-IN FOR INSTALLATION OF NEW URINAL (TYPICAL).
 - ④ EXISTING LAVATORY TO BE REMOVED AND DISPOSED OF. PREPARE EXISTING PLUMBING AND DRAINAGE ROUGH-IN FOR INSTALLATION OF NEW LAVATORY (TYPICAL).
 - ⑤ EXISTING MOP SINK AND FAUCET TO BE REMOVED AND DISPOSED OF. PREPARE DCW/DHW PIPING FOR THE INSTALLATION OF NEW MOP SINK FAUCET.
 - ⑥ EXISTING EYEWASH STATION TO BE REMOVED AND DISPOSED OF IN ITS ENTIRETY.



2 WASHROOM 107, 108, 111 & 112 NEW PLAN - P&D
M-3.3 1/75

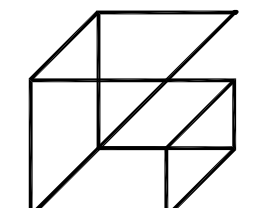
- PLUMBING NOTES
- ① PROVIDE NEW TROUGH LAVATORY AS SPECIFIED. REWORK EXISTING DCW/DHW PIPING AS REQUIRED AND PROVIDE NEW SANITARY DRAINAGE PIPING TO CONNECT TO EXISTING ROUGH-IN TO SUIT NEW INSTALLATION (TYPICAL).
 - ② PROVIDE NEW WATER CLOSET AS SPECIFIED. REWORK EXISTING DCW PIPING AS REQUIRED AND REPAIR/REPLACE TOILET FLANGE IF NECESSARY TO SUIT NEW INSTALLATION (TYPICAL).
 - ③ PROVIDE NEW URINAL AS SPECIFIED. PROVIDE NEW DCW PIPING IN WALL CHASE AS SHOWN AND CONNECT TO EXISTING DCW RISER C/W NEW ISOLATION VALVE. REWORK SANITARY DRAINAGE PIPING AS REQUIRED TO SUIT NEW INSTALLATION (TYPICAL).
 - ④ PROVIDE NEW LAVATORY AS SPECIFIED. REWORK EXISTING DCW/DHW PIPING AS REQUIRED AND PROVIDE NEW SANITARY DRAINAGE PIPING TO CONNECT TO EXISTING ROUGH-IN TO SUIT NEW INSTALLATION (TYPICAL).
 - ⑤ PROVIDE NEW MOP SINK AND WALL MOUNT FAUCET AS SPECIFIED. REWORK DCW/DHW PIPING AS REQUIRED TO SUIT NEW INSTALLATION.
 - ⑥ PROVIDE NEW EYEWASH STATION C/W THERMOSTATIC MIXING VALVE AS SPECIFIED. CONNECT NEW DCW/DHW PIPING TO EXISTING.

- GENERAL NOTES
1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY/STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER. CONTRACTOR TO INCLUDE FOR SCOPING SERVICES TO INVESTIGATE EXACT LOCATION AND SIZE OF EXISTING SERVICE.



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04	ISSUED FOR TENDER	24/10/01	SW

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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
PHASE 1 GROUND FLOOR WASHROOM PLAN - PLUMBING & DRAINAGE



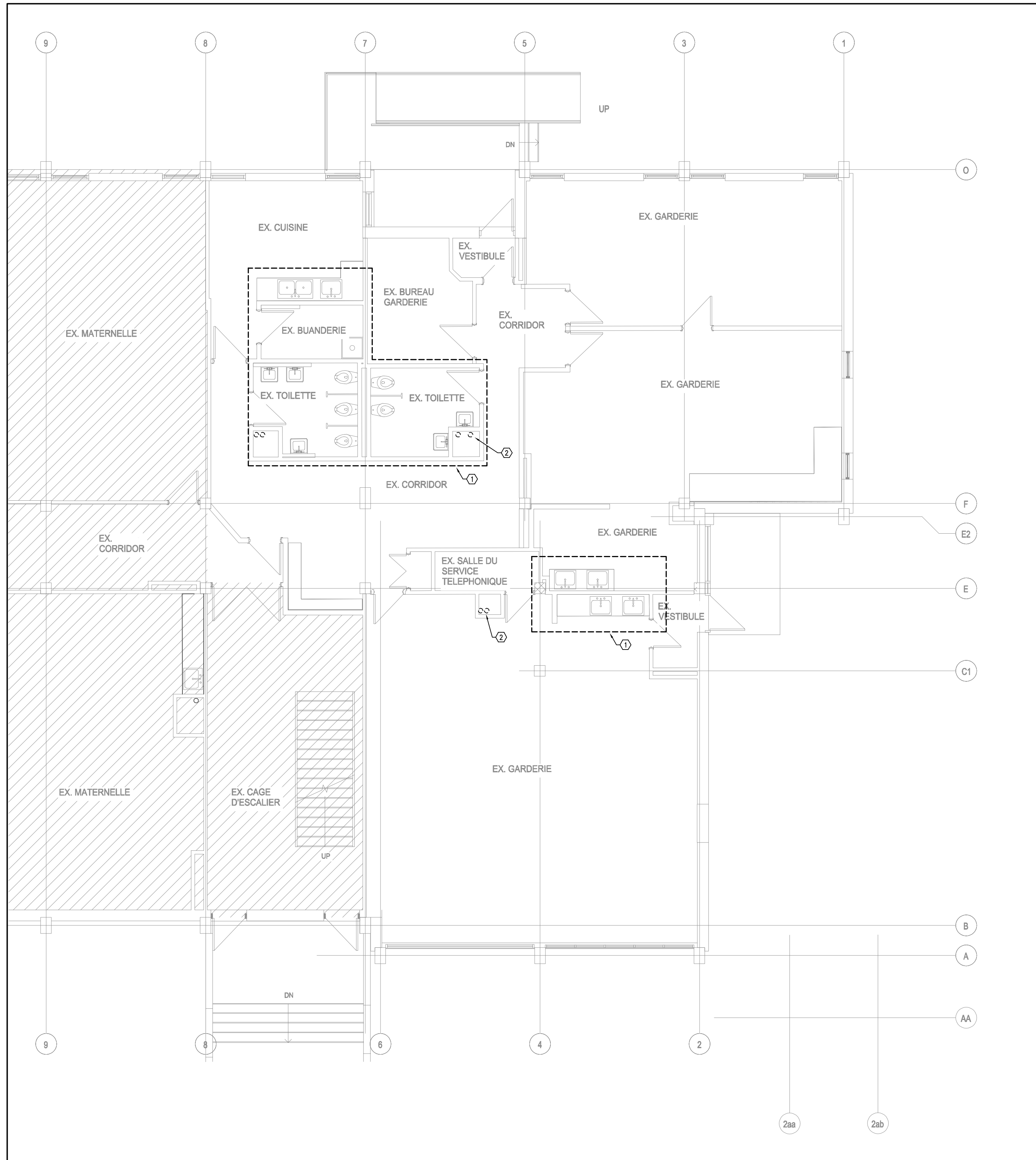
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PLUMBING NOTES

① ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISPOSED OF. REMOVE ALL ASSOCIATED COLD/HOT WATER PIPING.

② REMOVE COLD/HOT WATER PIPING DOWN TO TUNNEL ON FLOOR BELOW AND CAP WHERE INDICATED.

GENERAL NOTES

1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.

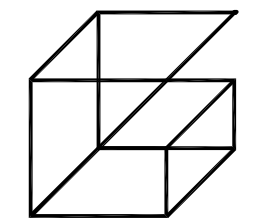
2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.

1 PHASE 2 GROUND FLOOR DEMOLITION PLAN - PLUMBING
M-3.4 1/75



NO.	ISSUES	DATE	BY
01	ISSUED FOR 80% REVIEW	23/03/06	SW
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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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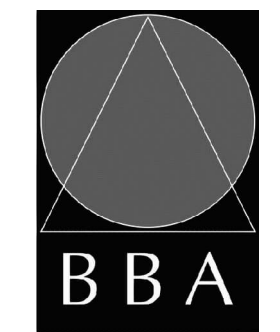
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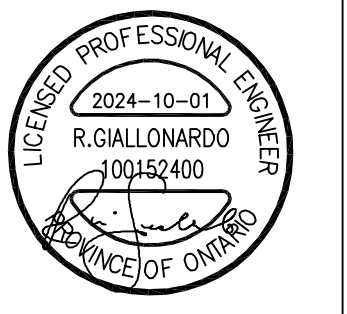
PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR DEMOLITION PLAN - PLUMBING

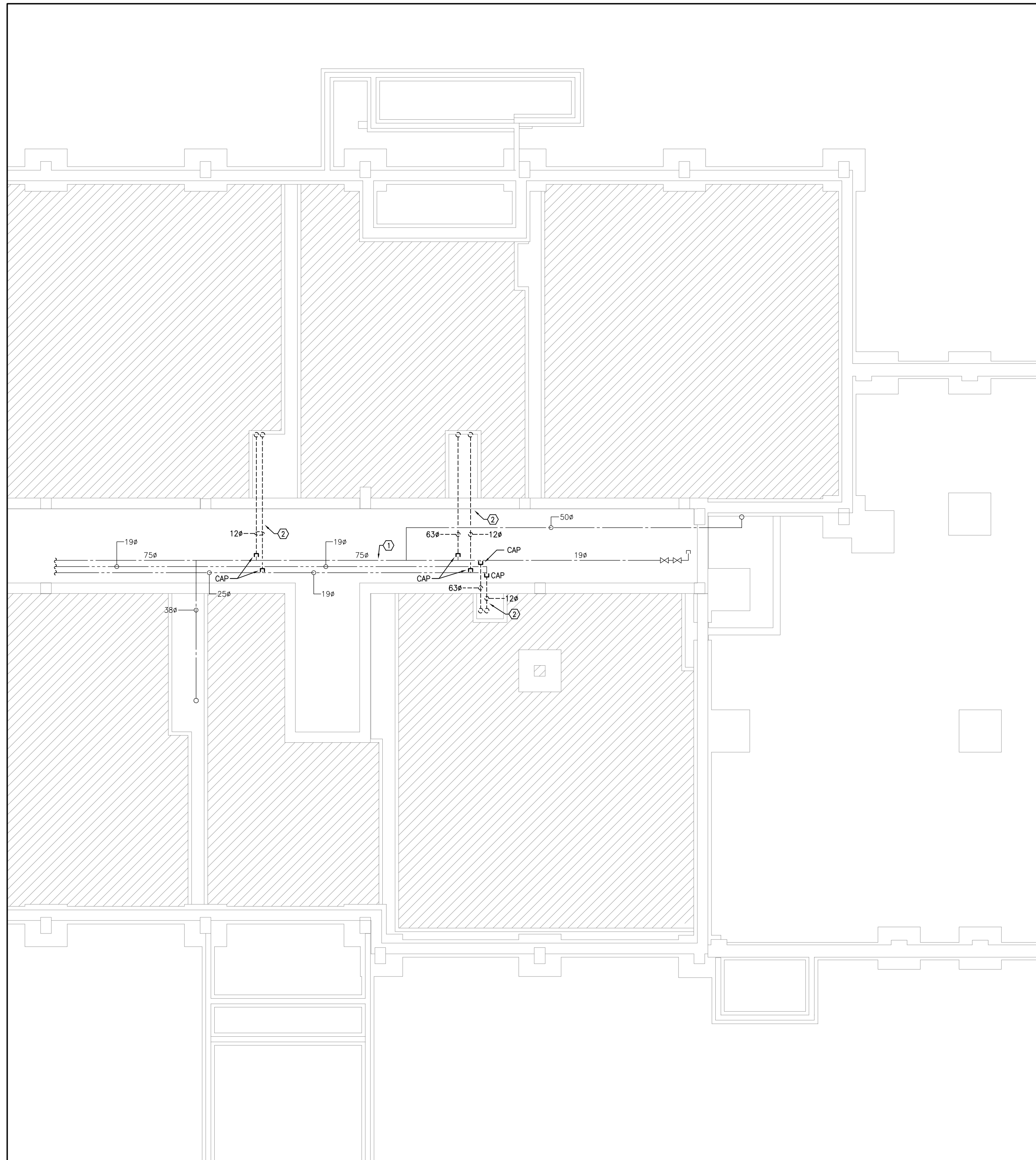


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PROJECT NO: **23-108** DRAWING NO: **M-3.4**



PLUMBING NOTES

① EXISTING DOW/DHW/DHWR PIPING IN TUNNEL TO REMAIN.

② EXISTING DOW/DHW PIPING SERVING FIXTURE ON FLOOR ABOVE TO BE REMOVED AND CAPPED AT MAIN IN TUNNEL.

GENERAL NOTES

1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.

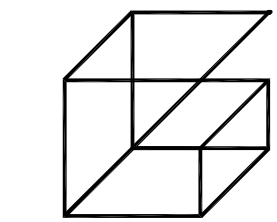
2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.

1 PHASE 2 BASEMENT DEMOLITION PLAN - PLUMBING
M-3.5 1/75



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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

NO.	REVISIONS	DATE	BY



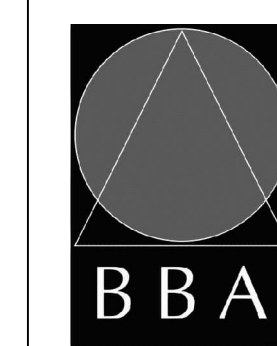
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PROJECT:
GARDARIE LA FARANDOLE

 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 BASEMENT DEMOLITION PLAN - PLUMBING

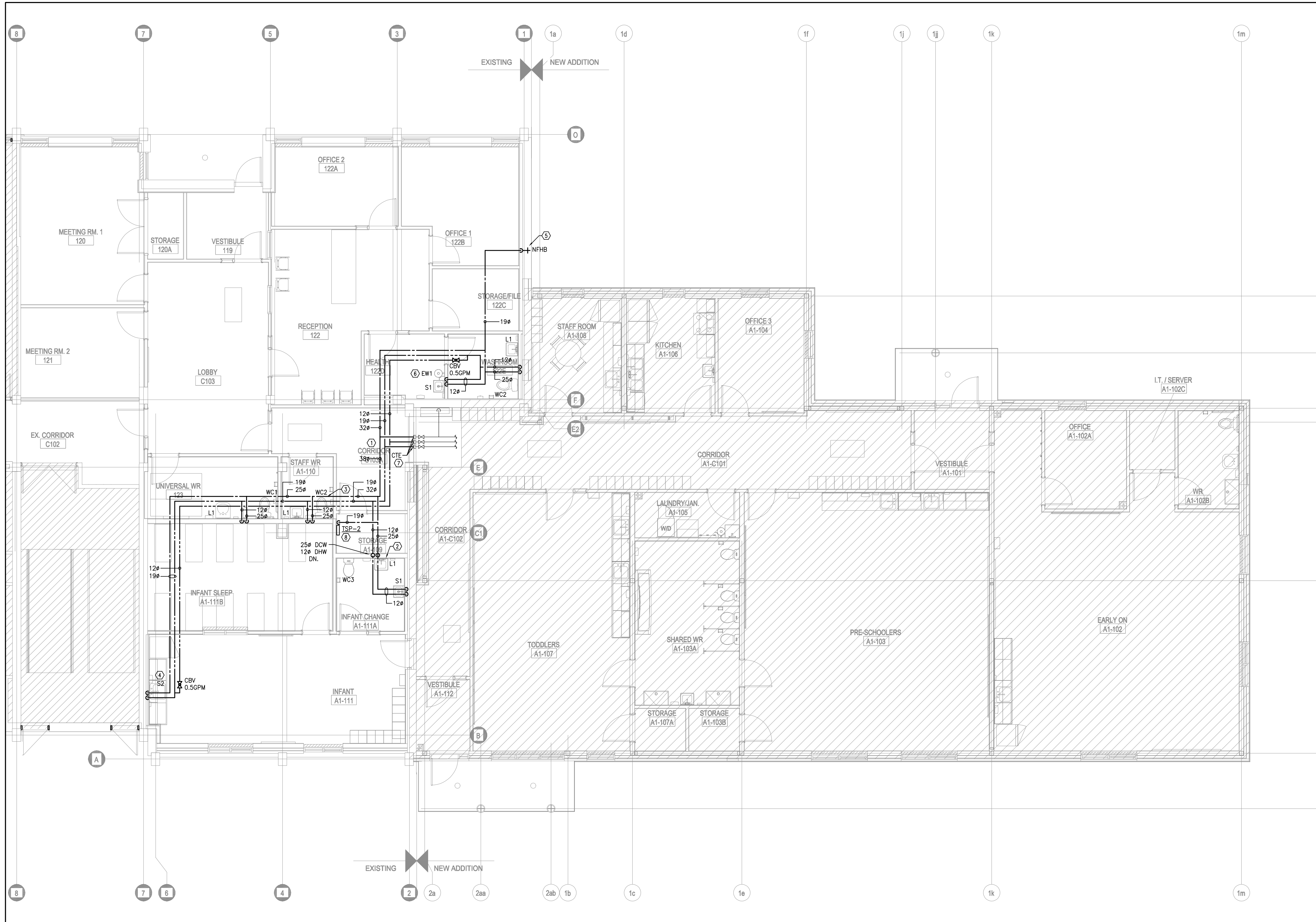


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PROJECT NO: **23-108** DRAWING NO: **M-3.5**



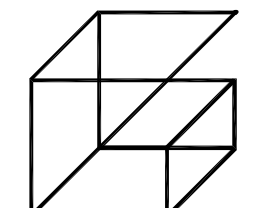
- PLUMBING NOTES**
- PROVIDE NEW DCW/DHW/DHWR PIPING IN CEILING SPACE. CONNECT TO EXISTING CAPPED CONNECTIONS WHERE SHOWN (TYPICAL).
 - PROVIDE NEW LAVATORY AS SPECIFIED. REFER TO SCHEDULES (TYPICAL).
 - PROVIDE NEW WATER CLOSET AS SPECIFIED. REFER TO SCHEDULES (TYPICAL).
 - PROVIDE NEW SINK AS SPECIFIED. REFER TO SCHEDULES (TYPICAL).
 - PROVIDE NEW NON-FREEZE HOSE BIBB HB AS SPECIFIED.
 - PROVIDE NEW EYEWASH STATION AS SPECIFIED. EXTEND PIPING FROM SINK WITHIN WALL SPACE TO SUPPLY EYEWASH. INSTALL THERMOSTATIC MIXING VALVE FLUSH ON OUTSIDE OF WALL C/W STRAPPING, PIPE SUPPORTS, ETC. AS REQUIRED.
 - CONNECT TO EXISTING CAPPED CONNECTIONS PROVIDED IN PHASE 1.
 - PROVIDE NEW SURFACE MOUNT ELECTRONIC TRAP PRIMING ASSEMBLY.

- GENERAL NOTES**
- PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 - PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.



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04	ISSUED FOR TENDER	24/10/01	SW

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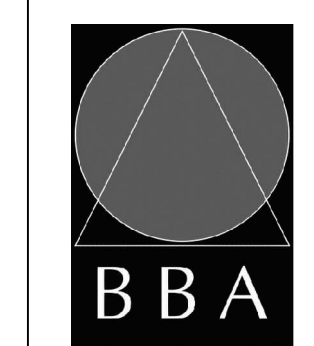
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR
NEW PLAN - PLUMBING

1 PHASE 2 GROUND FLOOR NEW PLAN - PLUMBING
 M-3.6 1:75



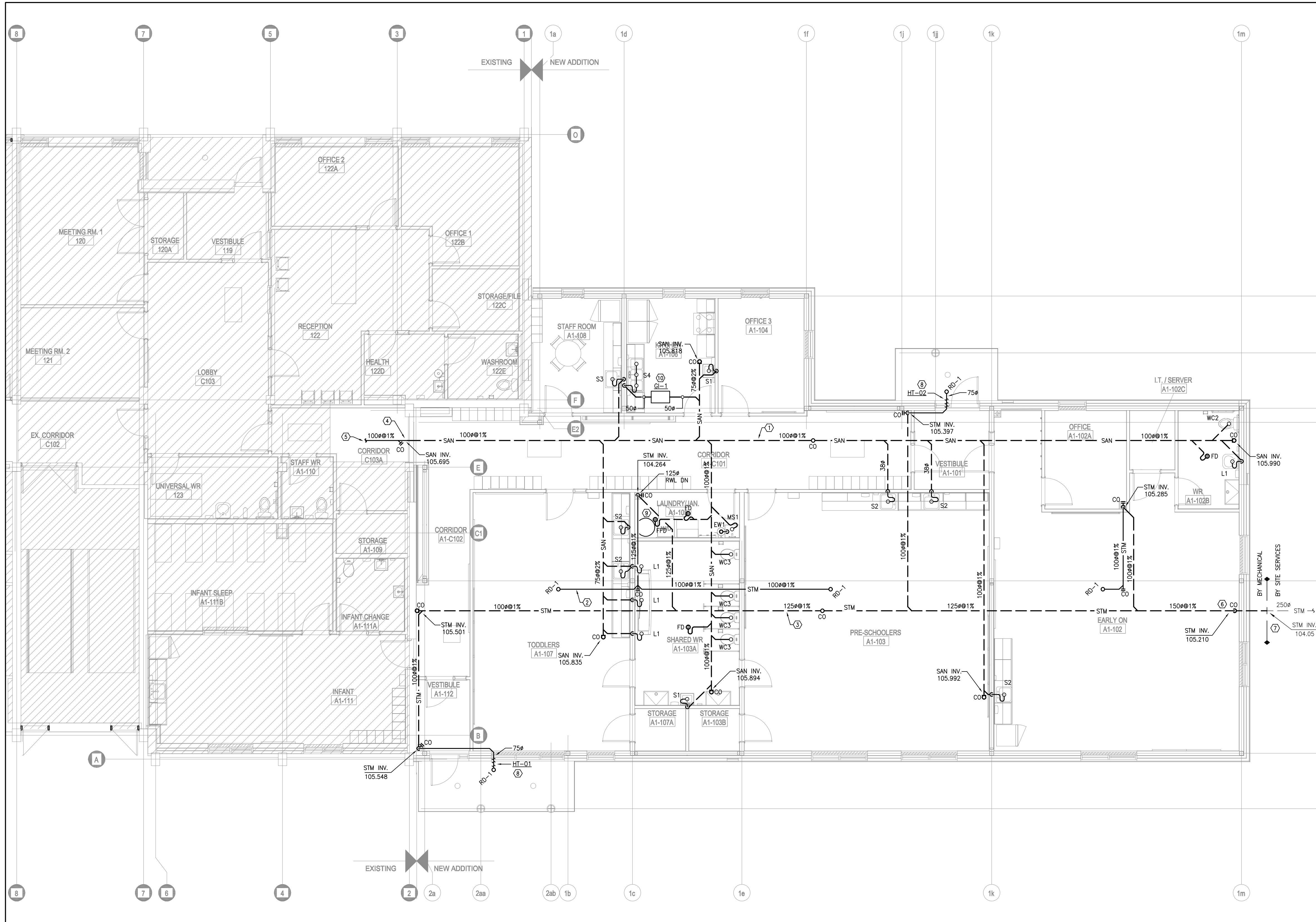
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PROJECT NO: **23-108** DRAWING NO: **M-3.6**



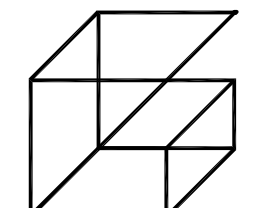
- DRAINAGE NOTES**
1. PROVIDE NEW BURIED SANITARY DRAINAGE PIPING (TYPICAL).
 2. PROVIDE NEW STORM DRAINAGE PIPING IN CEILING SPACE. ALL ABOVE GROUND STORM DRAINAGE PIPING SHALL BE INSULATED AS SPECIFIED (TYPICAL).
 3. PROVIDE NEW BURIED STORM DRAINAGE PIPING (TYPICAL).
 4. NEW SANITARY DRAINAGE PIPING THROUGH FOUNDATION WALL INTO TUNNEL.
 5. NEW SANITARY DRAINAGE PIPING IN TUNNEL ON FLOOR BELOW. REFER TO BASEMENT DRAINAGE PLANS FOR CONTINUATION.
 6. DROP BURIED STORM DRAINAGE PIPING DOWN TO MATCH CONNECTION INVERT BY SITE SERVICING C/W FLOOR CLEANOUT.
 7. CONNECT 150# U/G STM DRAIN PIPING TO CONNECTION OUTSIDE BUILDING. (TERMINATE 1.0M FROM BUILDING). CONTRACTOR TO COORDINATE WITH SITE SERVICING.
 8. ALL STORM DRAINAGE PIPING EXTERIOR TO BUILDING SERVING CANOPY ROOF DRAINS SHALL BE C/W HEAT TRACE AS SPECIFIED FOR FREEZE PROTECTION.
 9. TERMINATE HWT AT FUNNEL FLOOR DRAIN. COORDINATE LOCATION OF FFD WITH HWT INSTALLATION. REFER TO DETAILS.
 10. PROVIDE NEW GREASE INTERCEPTOR AS SPECIFIED INSTALLED RECESSED IN FLOOR. INSTALL UNIT IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

- GENERAL NOTES**
1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY/STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER. CONTRACTOR TO INCLUDE FOR SCOPING SERVICES TO INVESTIGATE EXACT LOCATION AND SIZE OF EXISTING SERVICE.



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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 1 GROUND FLOOR
NEW PLAN - DRAINAGE

1 PHASE 1 GROUND FLOOR NEW PLAN - DRAINAGE
 M-4.1
 1:75



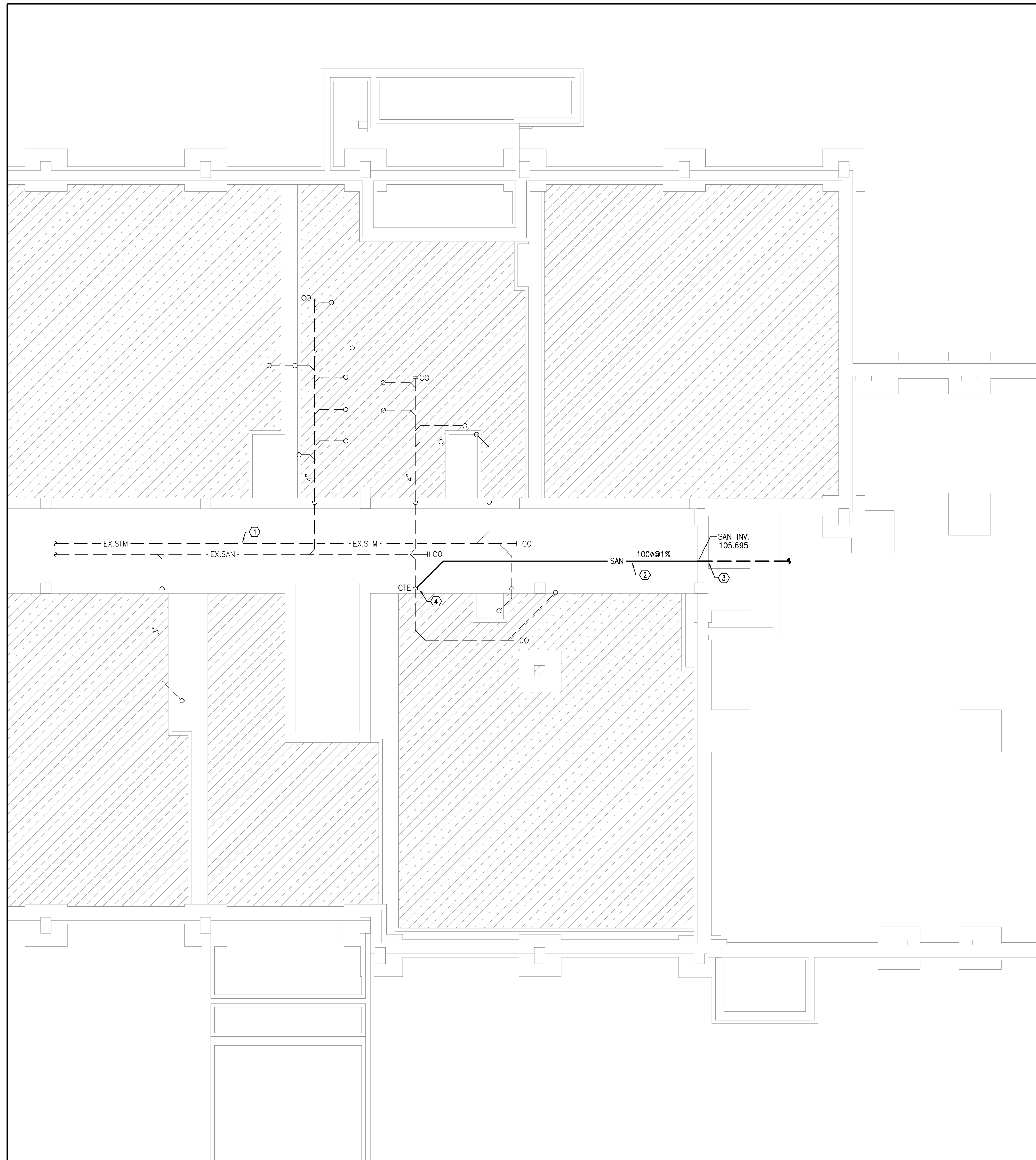
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PROJECT NO: **23-108** DRAWING NO: **M-4.1**



- DRAINAGE NOTES**
- ① EXISTING BURIED SANITARY AND STORM DRAINAGE PIPING IN TUNNEL TO REMAIN (TYPICAL).
 - ② NEW SANITARY DRAINAGE PIPING EXPOSED WITHIN TUNNEL.
 - ③ NEW BURIED SANITARY DRAINAGE PIPING THROUGH FOUNDATION WALL. REFER TO GROUND FLOOR DRAINAGE PLANS FOR CONTINUATION OF BURIED PIPING.
 - ④ CONNECT NEW SANITARY DRAINAGE PIPING TO EXISTING RISER IN TUNNEL. MODIFY RISER AS REQUIRED TO ACCEPT NEW PIPING CONNECTION.

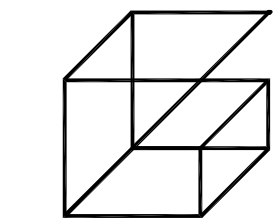
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1 PHASE 1 BASEMENT NEW PLAN - DRAINAGE
M-4.2 1/75



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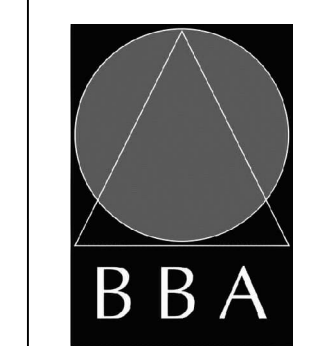


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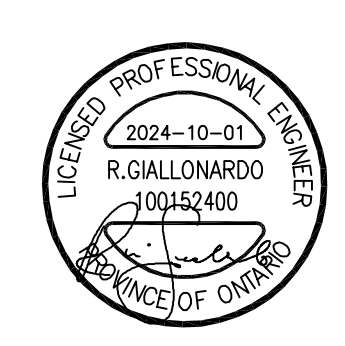
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PROJECT:
GARDARIE LA FARANDOLE
 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 1 BASEMENT NEW PLAN - DRAINAGE

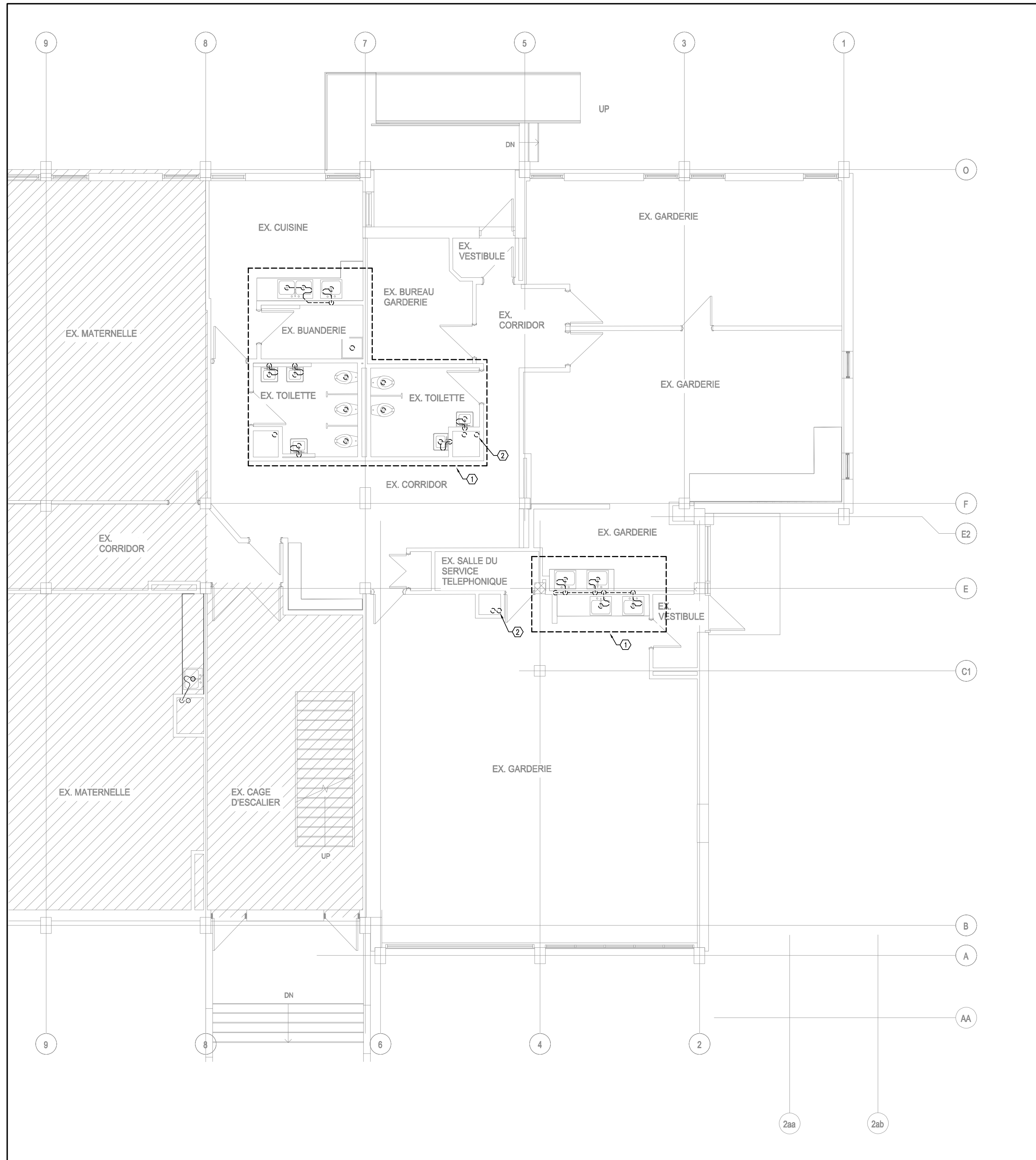


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PROJECT NO: **23-108** DRAWING NO: **M-4.2**



DRAINAGE NOTES

① ALL EXISTING PLUMBING FIXTURES TO BE REMOVED AND DISPOSED OF. REMOVE ALL ASSOCIATED SANITARY DRAINAGE PIPING.

② EXISTING ROOF DRAIN AND ASSOCIATED RWL DN IN SHAFT TO BE REMOVED AND DISPOSED OF DOWN TO TUNNEL ON FLOOR BELOW.

GENERAL NOTES

1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.

2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.

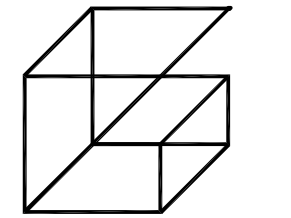
3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY/STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER. CONTRACTOR TO INCLUDE FOR SCOPING SERVICES TO INVESTIGATE EXACT LOCATION AND SIZE OF EXISTING SERVICE.

1 PHASE 2 GROUND FLOOR DEMOLITION PLAN - DRAINAGE
M-4.3 1/75



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03	ISSUED FOR CLIENT REVIEW	24/09/04	SW
04	ISSUED FOR TENDER	24/10/01	SW

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GARDARIE LA FARANDOLE

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65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR DEMOLITION PLAN - DRAINAGE



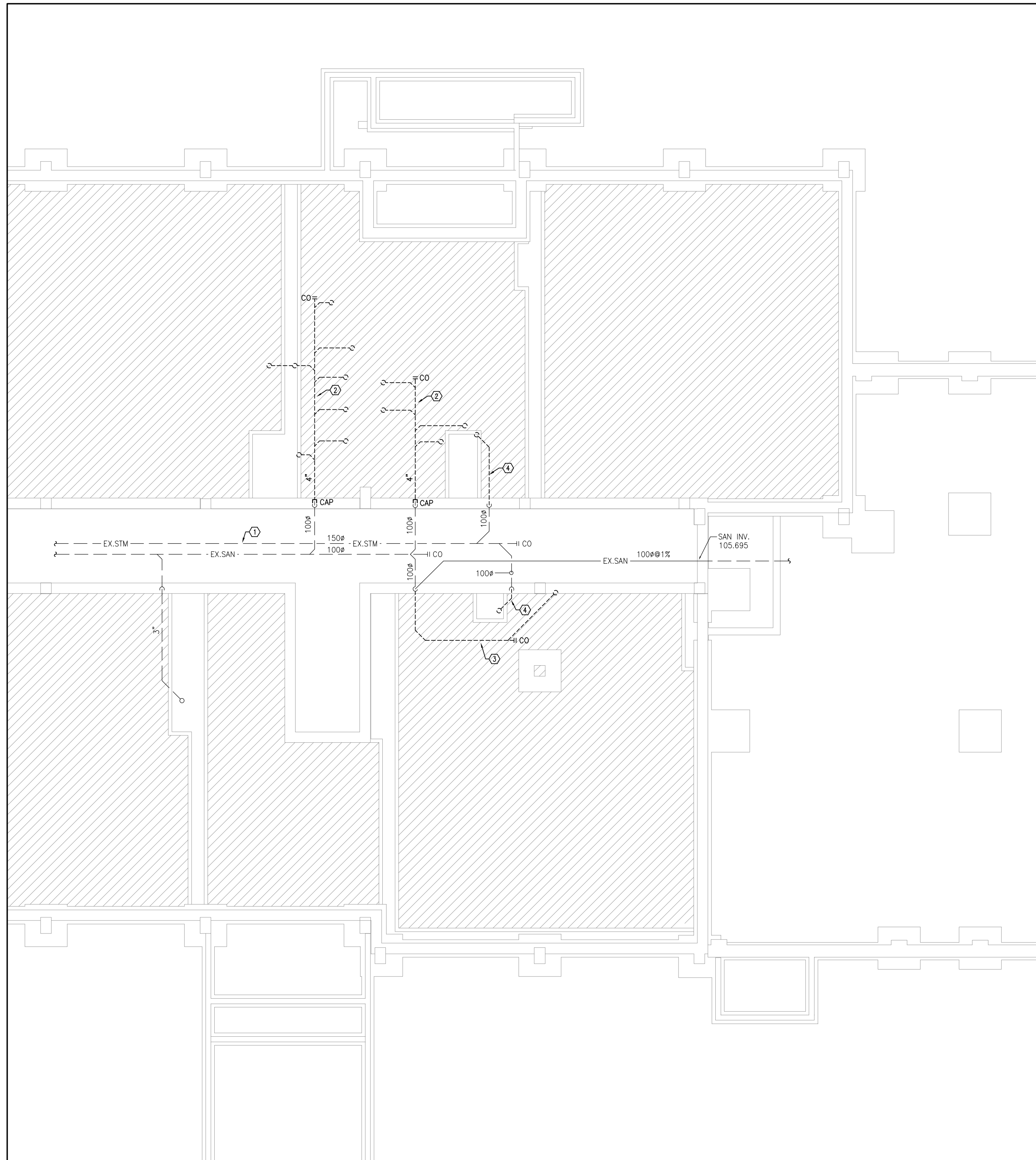
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PROJECT NO: **23-108** DRAWING NO: **M-4.3**



- DRAINAGE NOTES**
- ① EXISTING BURIED SANITARY AND STORM DRAINAGE PIPING IN TUNNEL TO REMAIN (TYPICAL).
 - ② EXISTING BURIED SANITARY DRAINAGE PIPING TO BE REMOVED BACK TO RISER IN TUNNEL. CAP RISER ABOVE SLAB.
 - ③ EXISTING BURIED SANITARY DRAINAGE PIPING TO BE REMOVED BACK TO RISER IN TUNNEL.
 - ④ EXISTING BURIED STORM DRAINAGE PIPING TO BE REMOVED BACK TO RISER IN TUNNEL. PREPARE RISER FOR CONNECTION OF NEW STORM DRAINAGE PIPING. REFER TO NEW DRAINAGE DRAWINGS.

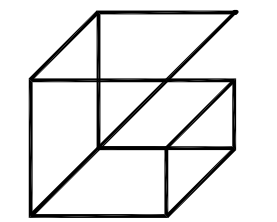
- GENERAL NOTES**
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 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY/STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER. CONTRACTOR TO INCLUDE FOR SCOPING SERVICES TO INVESTIGATE EXACT LOCATION AND SIZE OF EXISTING SERVICE.

1 PHASE 2 BASEMENT DEMOLITION PLAN - DRAINAGE
M-4.4 1/75



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04	ISSUED FOR TENDER	24/10/01	SW

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DRAWING:
PHASE 2 BASEMENT DEMOLITION PLAN - DRAINAGE



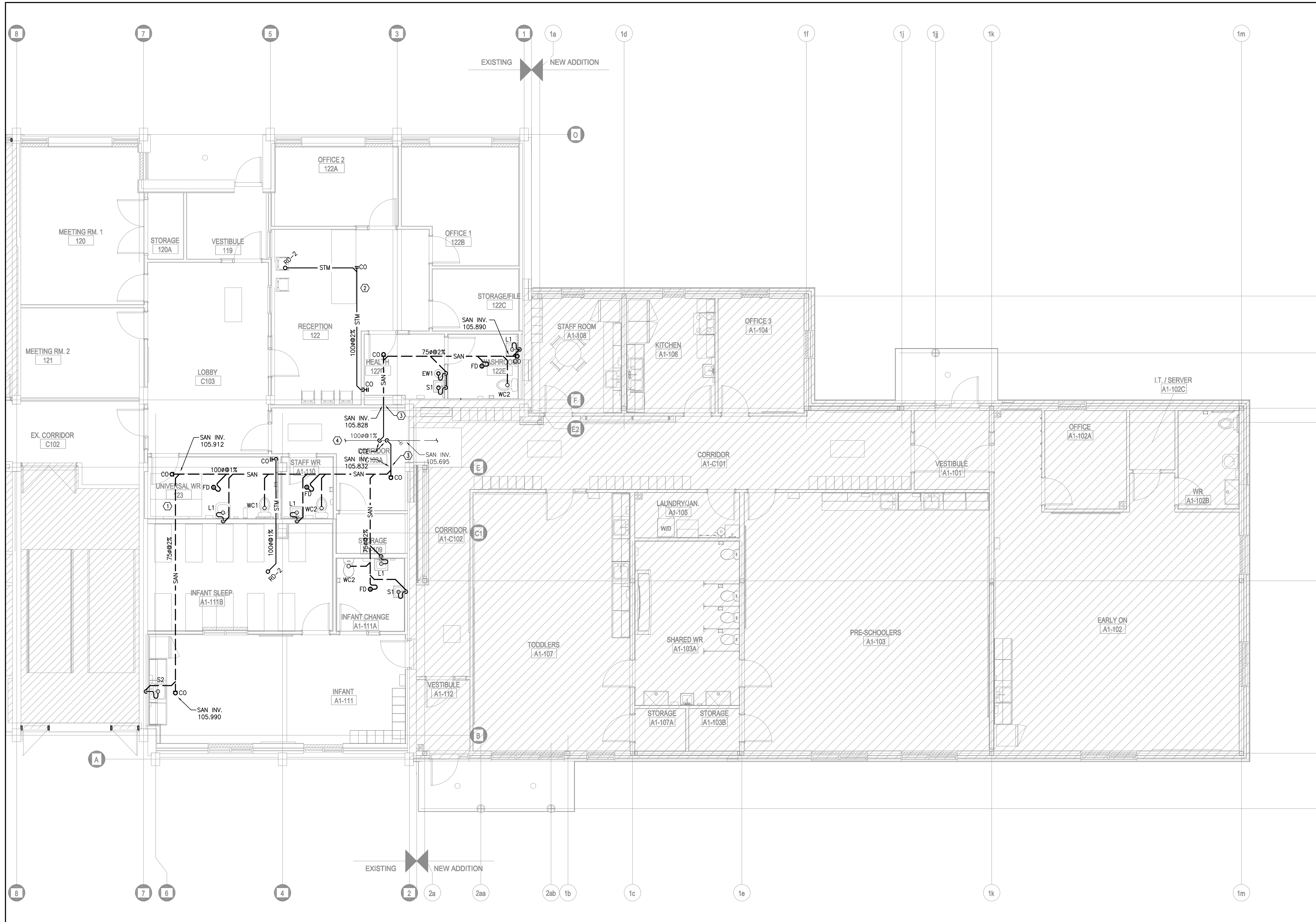
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- DRAINAGE NOTES**
1. PROVIDE NEW BURIED SANITARY DRAINAGE PIPING (TYPICAL).
 2. PROVIDE NEW STORM DRAINAGE PIPING IN CEILING SPACE. ALL ABOVE GROUND STORM DRAINAGE PIPING SHALL BE INSULATED AS SPECIFIED (TYPICAL).
 3. NEW SANITARY DRAINAGE PIPING THROUGH FOUNDATION WALL INTO TUNNEL.
 4. EXISTING SANITARY DRAINAGE PIPING IN TUNNEL ON FLOOR BELOW. REFER TO BASEMENT DRAINAGE PLANS FOR CONTINUATION.

- GENERAL NOTES**
1. PROVIDE VENTING SYSTEMS IN ACCORDANCE WITH PART 7 OF THE ONTARIO BUILDING CODE.
 2. PROVIDE ADEQUATE ACCESS FOR ALL EQUIPMENT, VALVES, ETC. LOCATED BEHIND WALLS AND CEILINGS. REFER TO SPECIFICATIONS.
 3. APPROXIMATE LOCATION OF EXISTING UNDERGROUND SANITARY/STORM DRAINAGE PIPING. CONTRACTOR TO VERIFY EXACT LOCATION ON SITE PRIOR TO CONSTRUCTION. REPORT DISCREPANCIES TO ENGINEER. CONTRACTOR TO INCLUDE FOR SCOPING SERVICES TO INVESTIGATE EXACT LOCATION AND SIZE OF EXISTING SERVICE.



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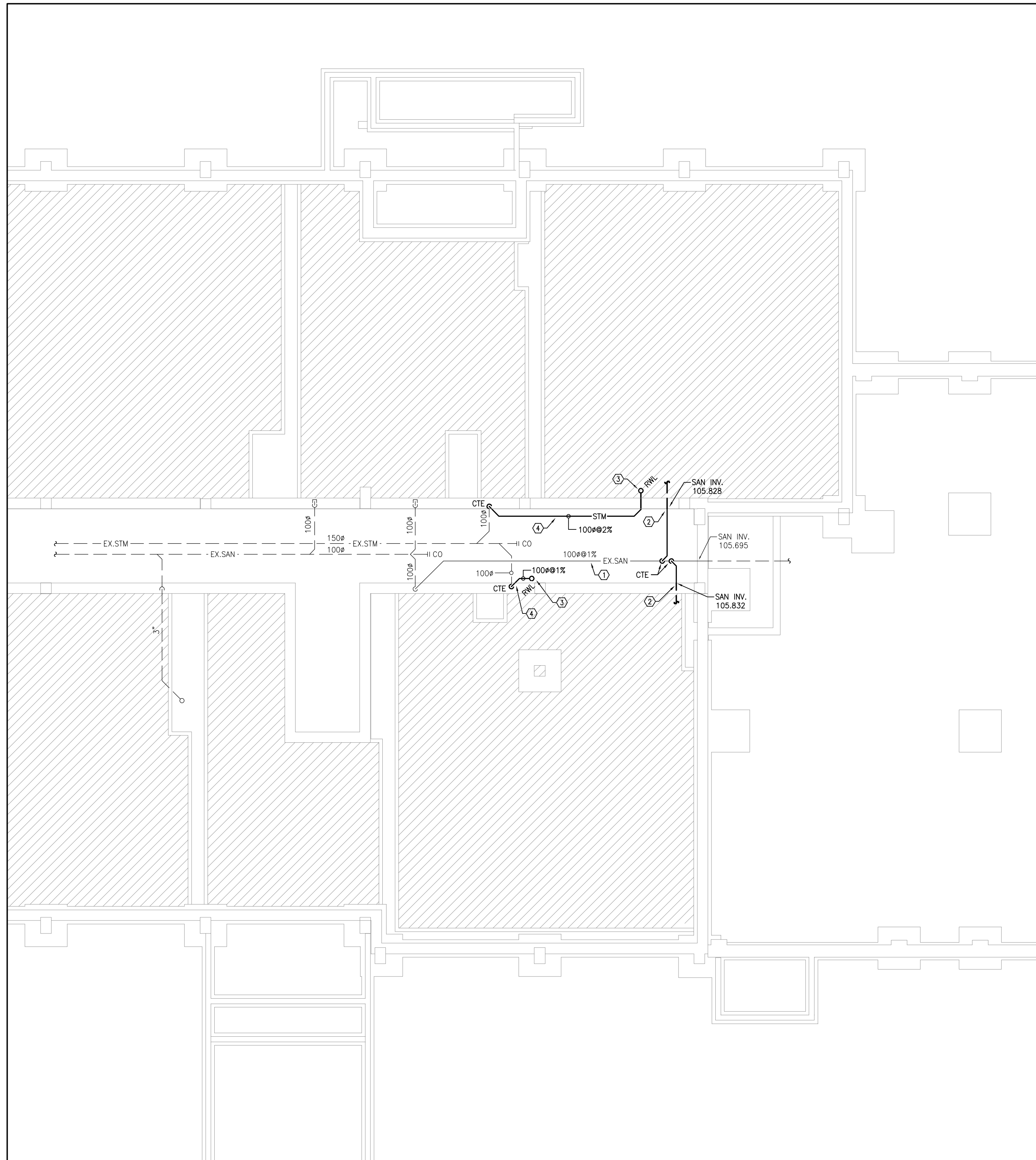
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PROJECT:
GARDARIE LA FARANDOLE
 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**PHASE 2 GROUND FLOOR
 NEW PLAN - DRAINAGE**

1 PHASE 2 GROUND FLOOR NEW PLAN - DRAINAGE
 M-4.5
 1:75

 BARRY BRYAN ASSOCIATES <i>Architects Engineers Project Managers</i>		DESIGN BY:	DOC CONTROL DATE:
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- DRAINAGE NOTES**
- ① EXISTING SANITARY DRAINAGE PIPING EXPOSED WITHIN TUNNEL.
 - ② NEW BURIED SANITARY DRAINAGE PIPING THROUGH FOUNDATION WALL. REFER TO GROUND FLOOR DRAINAGE PLANS FOR CONTINUATION OF BURIED PIPING.
 - ③ NEW RWL FROM ABOVE. REFER TO GROUND FLOOR DRAINAGE PLANS FOR CONTINUATION OF STORM DRAINAGE PIPING.
 - ④ NEW STORM DRAINAGE PIPING EXPOSED WITHIN TUNNEL. CONNECT NEW STORM DRAINAGE PIPING TO EXISTING RISER WHERE SHOWN. MODIFY RISER AS REQUIRED TO ACCEPT NEW PIPING CONNECTION.

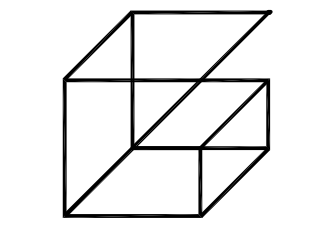
- GENERAL NOTES**
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1 PHASE 2 BASEMENT NEW PLAN - DRAINAGE
M-4.6 1/75



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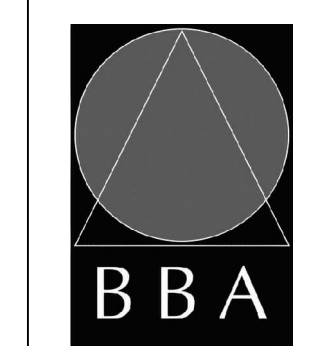
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 65 Grace Street Toronto

DRAWING:
PHASE 2 BASEMENT NEW PLAN - DRAINAGE



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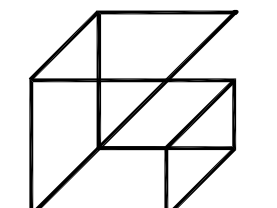


- FIRE PROTECTION NOTES**
- ① NEW SPRINKLER MAIN LOCATED IN CEILING SPACE.
 - ② PROVIDE NEW RECESSED PENDENT SPRINKLER HEAD TO MATCH BASE BUILDING (TYPICAL).
 - ③ RECESSED WALL FIRE EXTINGUISHER CABINET AS SPECIFIED. (TYPICAL).
 - ④ PROVIDE NEW RECESSED FIRE HOSE CABINET TO MATCH BASE BUILDING.
 - ⑤ NEW STANDPIPE LOCATED IN CEILING SPACE.
 - ⑥ PROVIDE CAPPED CONNECTION FOR FUTURE PHASE 2 SPRINKLER PIPING.
 - ⑦ PROVIDE NEW FIRE EXTINGUISHER AS SPECIFIED C/W WALL HOOK (TYPICAL).
 - ⑧ LOCATION OF ANSUL FIRE SUPPRESSION PANEL SERVING NEW KITCHEN EXHAUST HOOD. EXACT LOCATION TO BE DETERMINED ON SITE.
 - ⑨ LOCATION OF NEW CLASS K PORTABLE FIRE EXTINGUISHER AS SPECIFIED, REFER TO KITCHEN EQUIPMENT DRAWINGS. COORDINATE EXACT LOCATION ON SITE.
 - ⑩ LOCATION OF REMOTE PULL STATION. COORDINATE EXACT LOCATION ON SITE.



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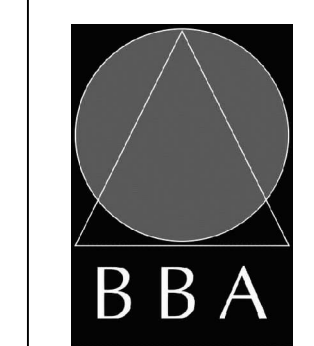
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 65 Grace Street Toronto

DRAWING:
PHASE 1 GROUND FLOOR PLAN - FIRE PROTECTION

1 PHASE 1 GROUND FLOOR PLAN - FIRE PROTECTION
 M-5.1 1:75



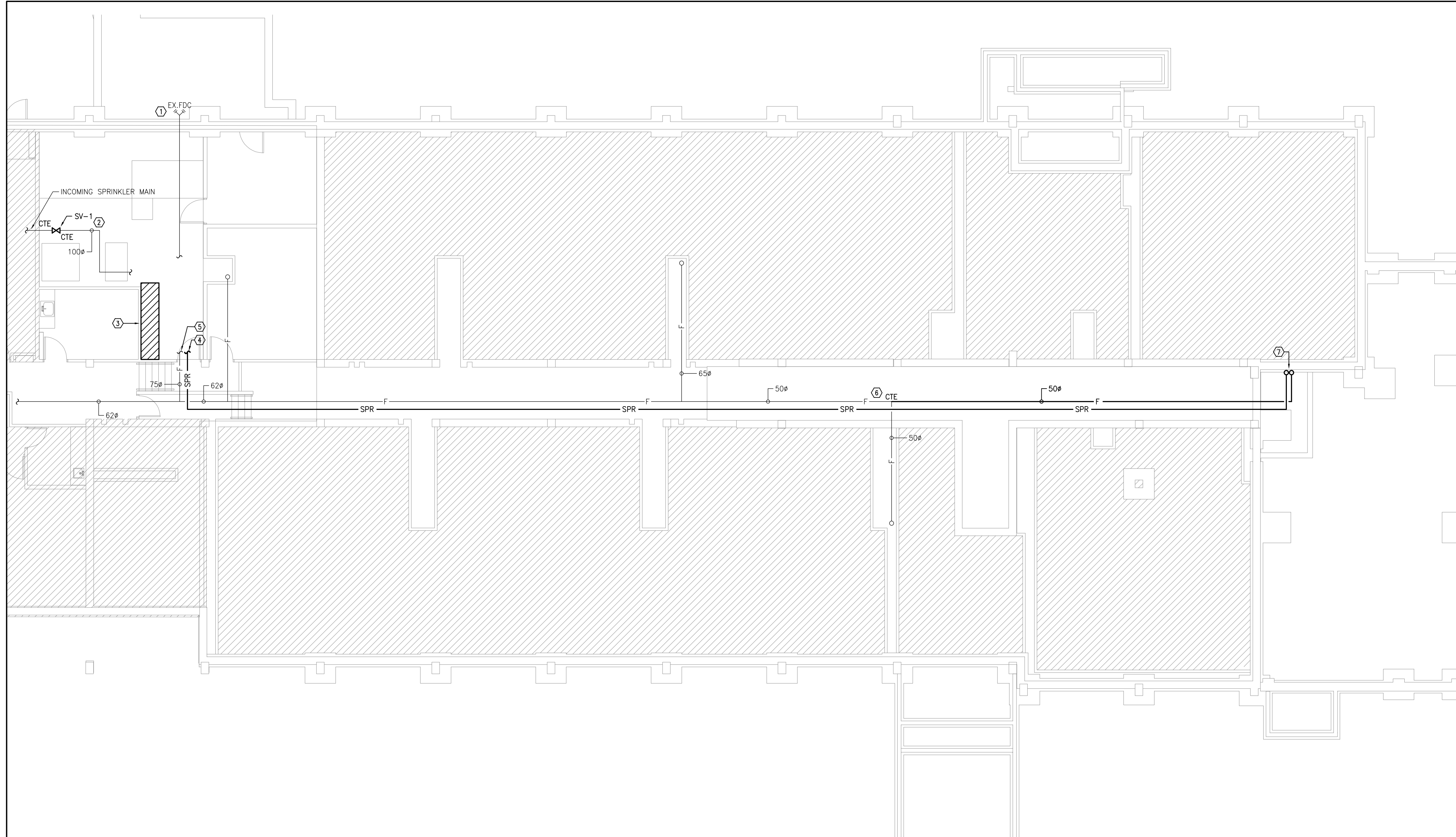
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1 PHASE 1 BASEMENT PLAN - FIRE PROTECTION
M-5.2 1:100

FIRE PROTECTION NOTES

- ① EXISTING FDC TO REMAIN. RECONNECT TO NEW SPRINKLER RISER (REFER TO DETAILS).
- ② EXISTING INCOMING 100ø WATER MAIN. REPLACE EXISTING ISOLATION VALVE WITH NEW SUPERVISED VALVE (REFER TO DETAILS).
- ③ EXISTING SPRINKLER RISER, FIRE PUMP, AND WATER METER ASSEMBLY TO BE DEMOLISHED REFER TO DETAILS FOR NEW PIPING SCHEMATIC.
- ④ CONNECT NEW WET SPRINKLER SYSTEM SERVING DAYCARE TO NEW SPRINKLER RISER ASSEMBLY. (REFER TO DETAILS).
- ⑤ EXISTING 75ø STANDPIPE FROM SPRINKLER RISER.
- ⑥ CONNECT NEW STANDPIPE TO EXISTING IN SERVICE TUNNEL.
- ⑦ NEW SPRINKLER PIPING AND STANDPIPE UP TO FLOOR ABOVE.

FIRE PROTECTION SYSTEM

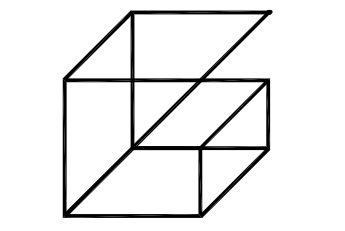
- SPRINKLER SYSTEM**
1. PROVIDE AN ENGINEERED, COMPLETE AUTOMATIC SPRINKLER AND FIRE PROTECTION SYSTEM TO APPROVAL OF AUTHORITIES HAVING JURISDICTION, AND IN ACCORDANCE WITH REQUIREMENTS OF THE LOCAL FIRE DEPARTMENT. THE SYSTEM SHALL BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF NFPA 13, AND 231.
 2. PROVIDE ALL THE NECESSARY CALCULATIONS REQUIRED TO DESIGN THE SYSTEM TO SUIT THE APPLICATION, THE EXISTING CONDITION AND THE MUNICIPAL WATER PRESSURES AND FLOWS. THE SYSTEM SHALL BE HYDRAULICALLY DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL THE AUTHORITIES HAVING JURISDICTION, AND OWNER'S INSURER REQUIREMENT.
 3. SUBMIT SHOP DRAWINGS TO AUTHORITIES AND THE CONSULTANT FOR APPROVAL AND REVIEW PRIOR TO COMMENCEMENT.
 4. SPRINKLER HEADS SHALL BE OF BRONZE CONSTRUCTION, CHROME PLATED FOR PENDANT TYPE FOR ALL FINISHED AREAS, AND UPRIGHT TYPE FOR EXPOSED INSTALLATION.
 5. SPRINKLER LINES SHALL BE STANDARD BLACK STEEL SCHEDULE 40 COMPLETE WITH ALL FITTINGS, HANGERS AND APPURTENANCES.
 6. ALL WELDING SHALL BE DONE BY C.W.B. LICENSED WELDERS.
 7. PROVIDE SPRINKLER HEADS AND PIPING AS REQUIRED IN ACCORDANCE WITH SPACE REQUIREMENTS AND SITE CONDITIONS TO OBTAIN THE NECESSARY APPROVALS FROM LOCAL AUTHORITIES.
 8. MAINTAIN GENERALLY A GOOD APPEARANCE OF CEILING SYSTEMS. CO-ORDINATE LOCATIONS OF SPRINKLER HEADS WITH ALL DIFFUSERS AND LIGHTING FIXTURES AND LATEST ARCHITECTURAL REFLECTED CEILING PLANS AND FINISHES.
 9. SUBMIT A SEPARATE PRICE FOR THE ADDITION/OR DELETION OF ONE(1) SPRINKLER HEAD OF EACH TYPE SPECIFIED. ANY NUMBER OF HEADS MAY BE INCORPORATED AT THE UNIT PRICE DURING THE CONSTRUCTION PERIOD.
 10. PROVIDE SPARE SPRINKLERS AS PER CODE REQUIREMENT.
 11. INFORM OWNER, OWNER'S INSURER AND AUTHORITIES HAVING JURISDICTION DURING SHUT DOWN OF THE FIRE PROTECTION SYSTEM. PROVIDE ADEQUATE TEMPORARY PROTECTION DURING THE SHUT DOWN PERIOD AS PER CODE REQUIREMENTS.
 12. MAINTAIN ALL SPRINKLER, STANDPIPE AND OTHER FIRE AND LIFE SAFETY PROTECTION SERVICES IN OPERATION AT ALL TIMES.
 13. ALL SPRINKLER SYSTEM WORK IN THIS CONTRACT SHALL BE PERFORMED BY THE LANDLORD'S SPRINKLER CONTRACTOR AT THIS TENANT'S EXPENSE OR BY A SPRINKLER CONTRACTOR APPROVED BY THE LANDLORD.
 14. SPRINKLER CONTRACTOR TO REMOVE AND RELOCATE EXISTING FIRE DEPARTMENT CONNECTION AS SHOWN. REMOVE EXISTING ASSOCIATED PIPING AND CAP AT MAIN. PROVIDE NEW PIPING AND CONNECT TO RELOCATED FIRE DEPARTMENT CONNECTION. COORDINATE LOCATION AND ROUTING OF PIPING ON SITE. REFER TO FIRE DEPARTMENT CONNECTION DETAIL.

- FIRE EXTINGUISHER CABINET**
1. PROVIDE AS REQUIRED, NATIONAL FIRE EQUIPMENT LTD. DIAMOND FIRE EXTINGUISHER MODEL 102RS, SLB MULTI-PURPOSE DRY CHEMICAL EXTINGUISHERS.
 2. CONTRACTOR SHALL INSTALL FIRE EXTINGUISHER AS SPECIFIED. QUANTITY AND LOCATION SHALL BE COORDINATED ON SITE WITH FIRE MARSHAL.



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04	ISSUED FOR TENDER	24/10/01	SW

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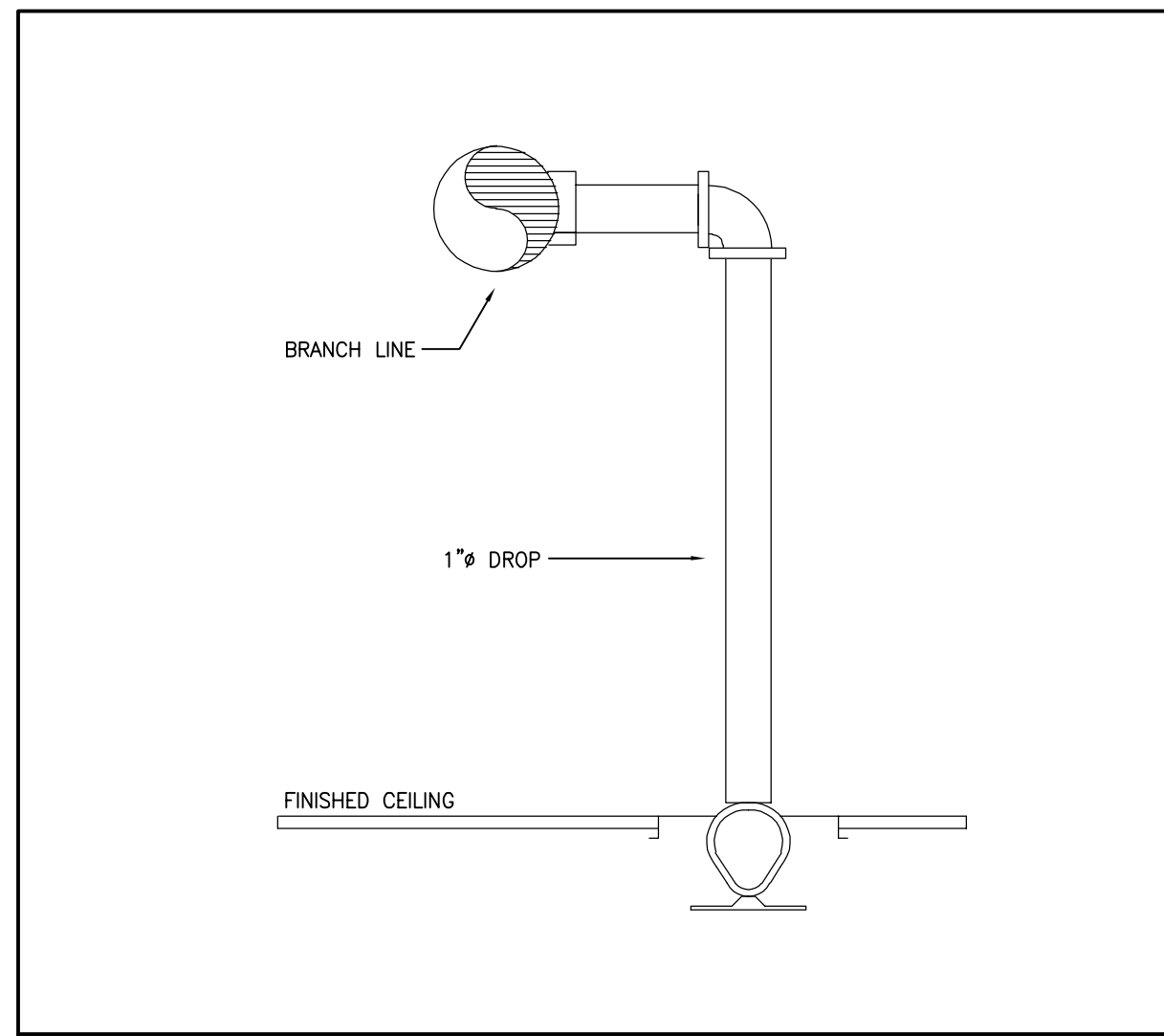
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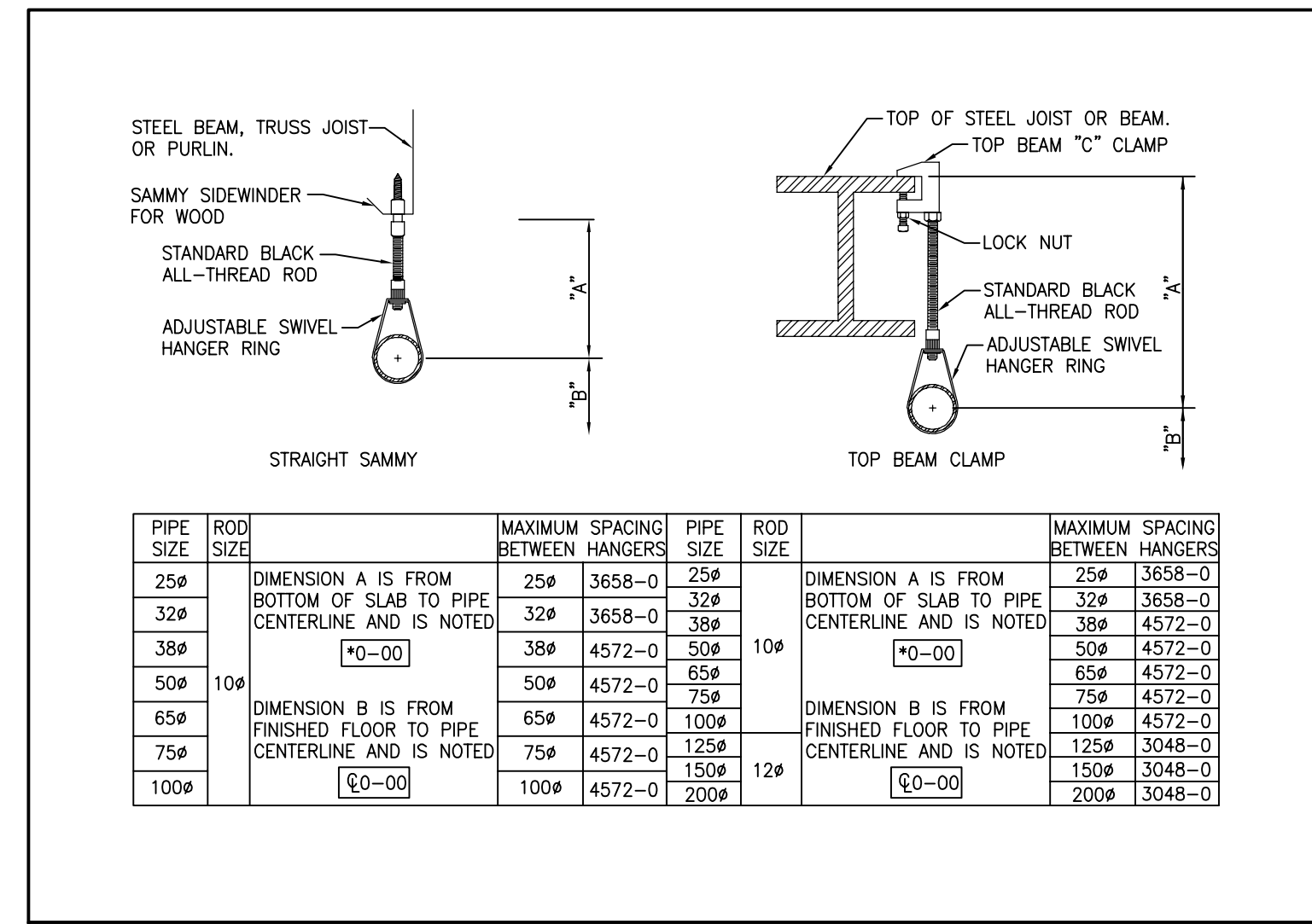
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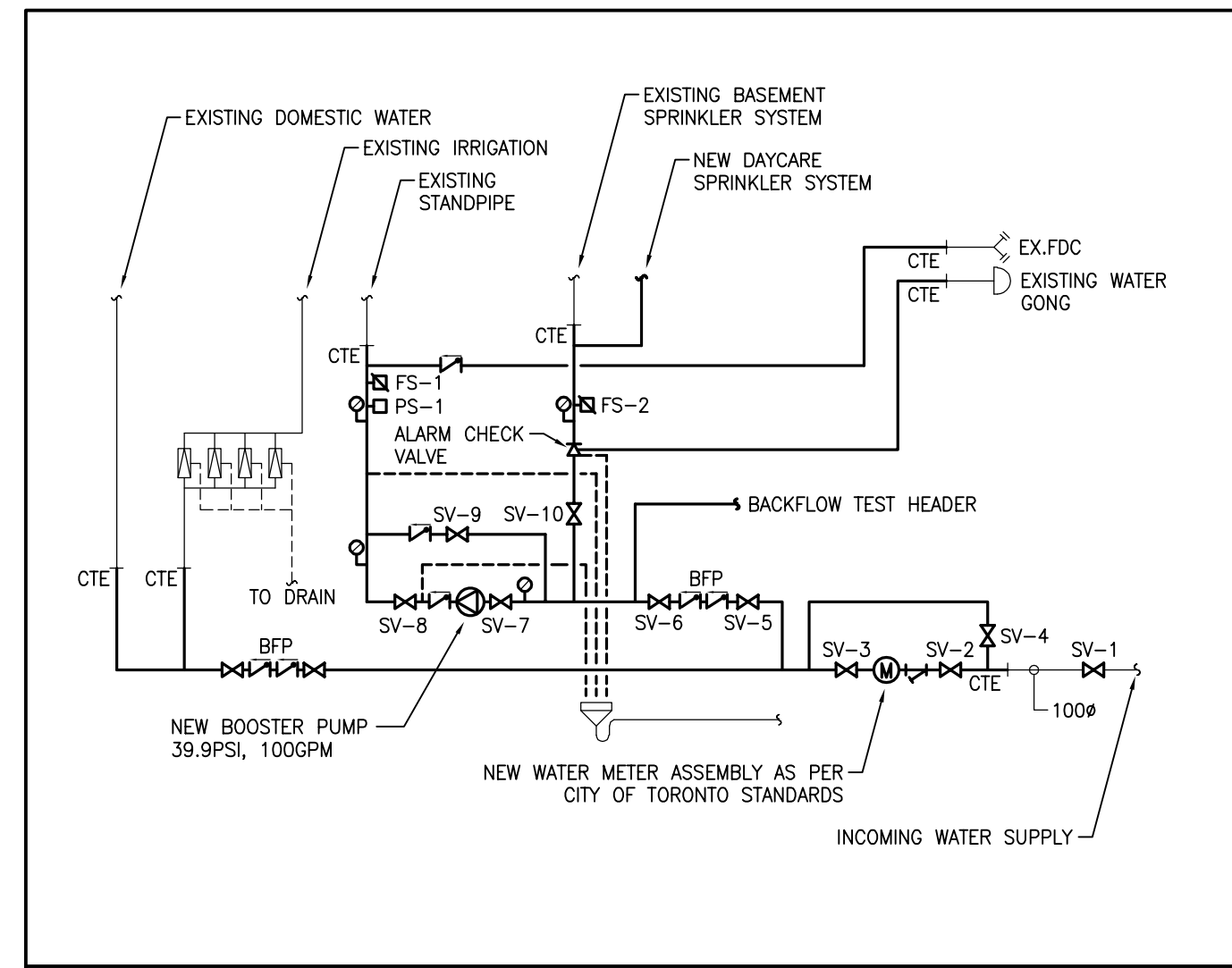
DRAWING:
PHASE 1 BASEMENT PLAN - FIRE PROTECTION



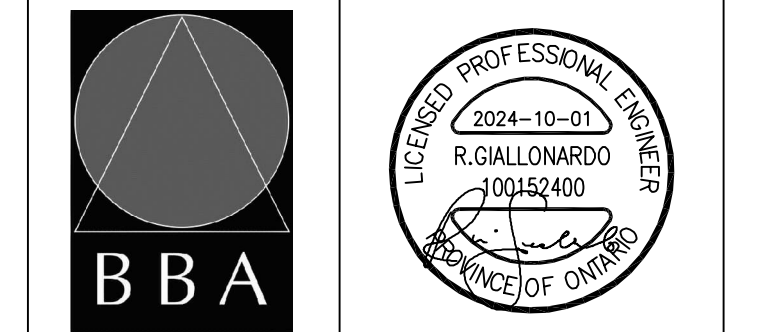
2 TYPICAL RECESSED PENDENT SPRINKLER DROP3
M-5.2 NTS



3 PIPE HANGER DETAIL
M-5.2 NTS

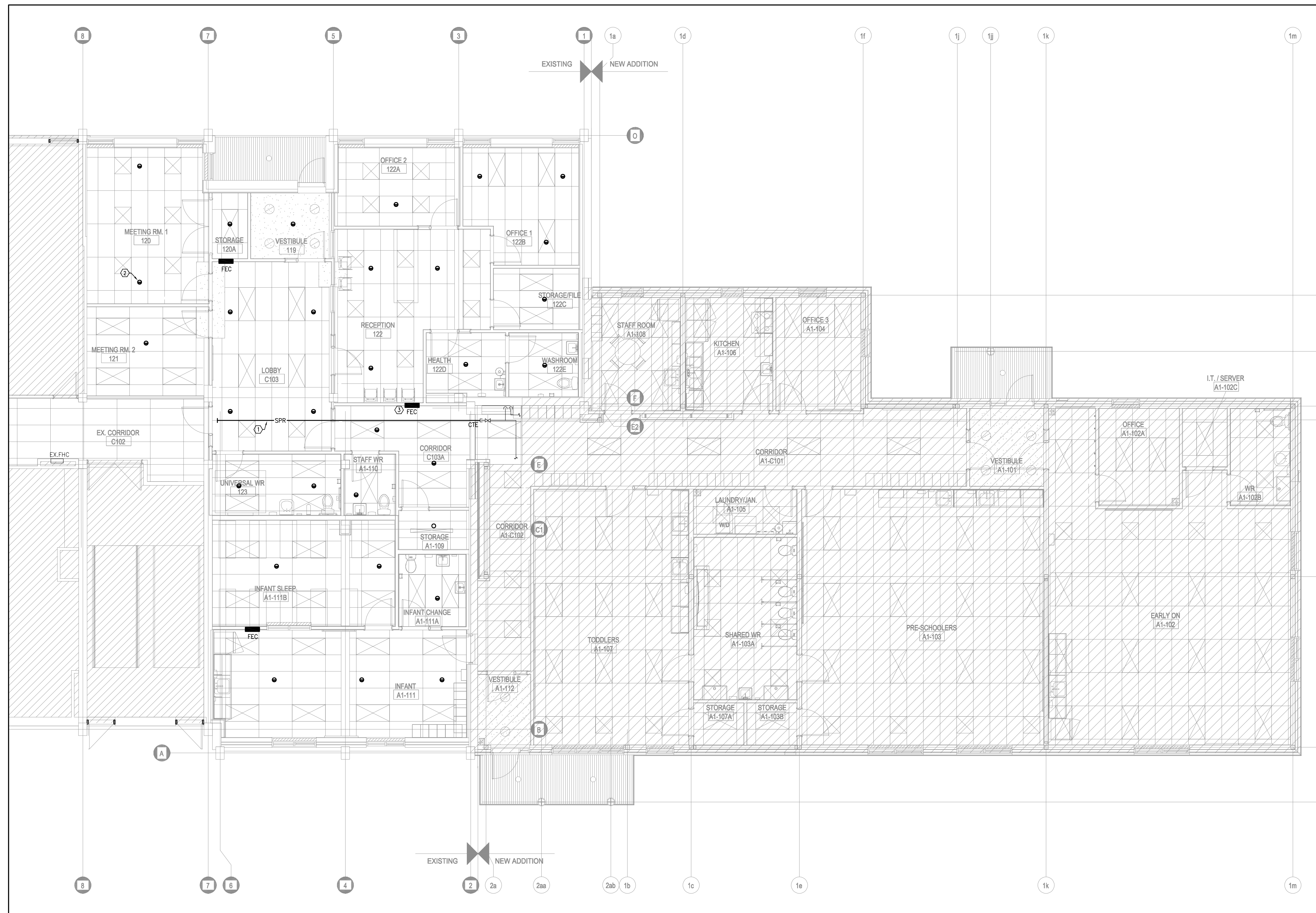


4 SPRINKLER RISER DETAIL
M-5.2 NTS



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PROJECT NO: **23-108**
DRAWING NO: **M-5.2**



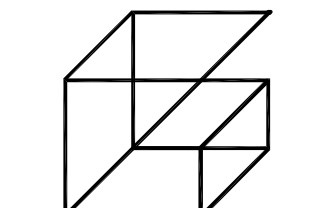
FIRE PROTECTION NOTES

- ① NEW SPRINKLER MAIN LOCATED IN CEILING SPACE.
- ② PROVIDE NEW RECESSED PENDENT SPRINKLER HEAD TO MATCH BASE BUILDING (TYPICAL).
- ③ RECESSED WALL FIRE EXTINGUISHER CABINET AS SPECIFIED (TYPICAL).



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04	ISSUED FOR TENDER	24/10/01	SW

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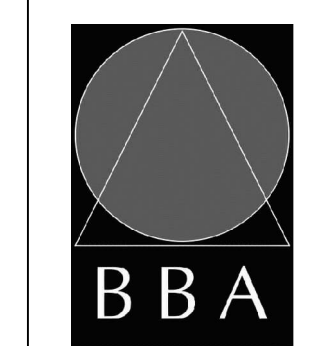
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 This drawing shall be read in conjunction with the architectural, structural, electrical and all other consultant's drawings prior to proceeding with the work. Do not scale the drawings.
 The contractor is to verify and accept responsibility for all dimensions and conditions on site and must notify GIALLONARDO ENGINEERING INC. of any variations from the drawings.

PROJECT:
GARDARIE LA FARANDOLE
 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
PHASE 2 GROUND FLOOR PLAN - FIRE PROTECTION

1 PHASE 2 GROUND FLOOR PLAN - FIRE PROTECTION
 M-5.3 1:75



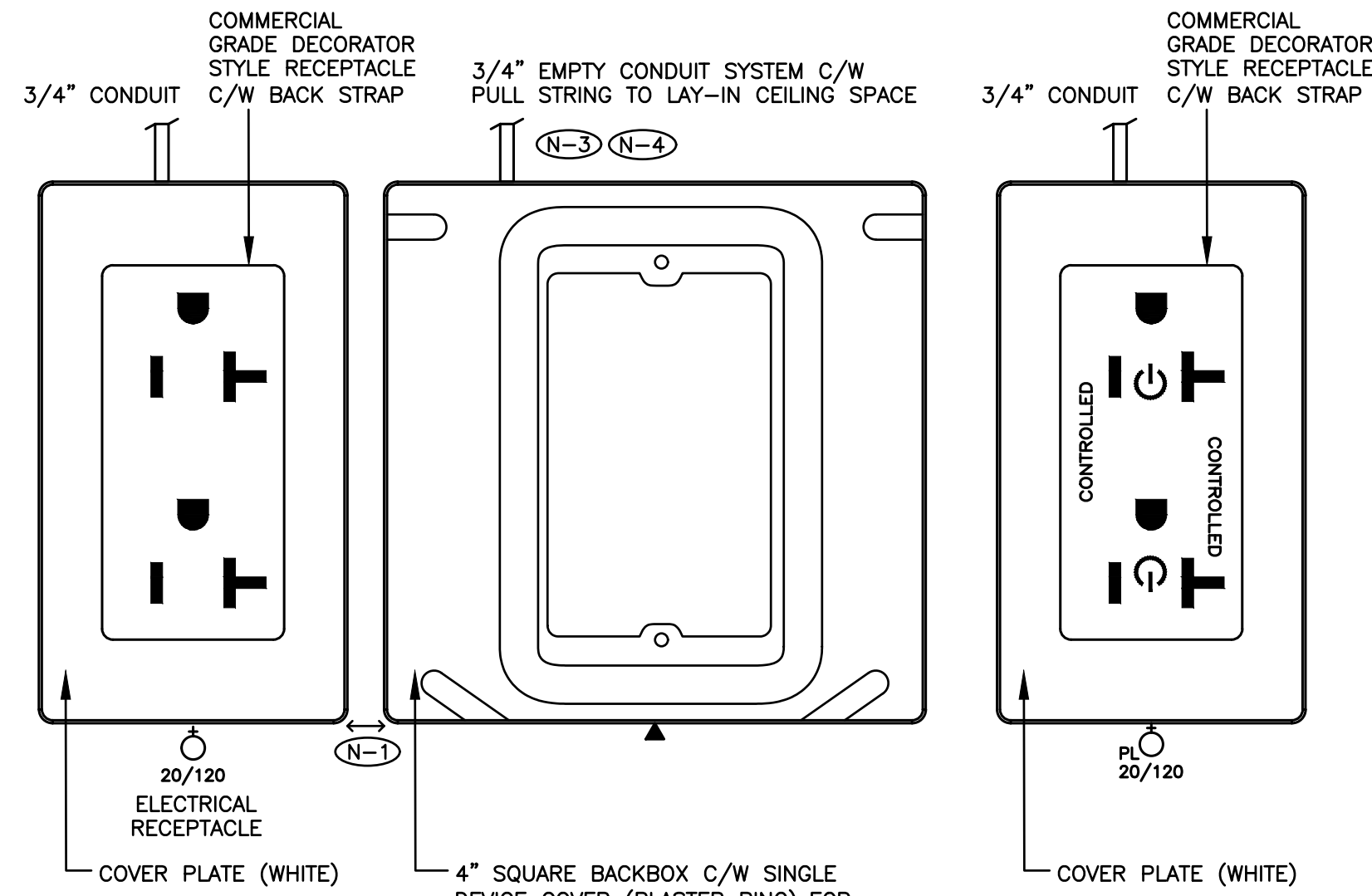
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DATE: FEB 2023	
SCALE: AS NOTED	
FILE:	

PROJECT NO: **23-108** DRAWING NO: **M-5.3**



- (N-1) MINIMUM CLEARANCE.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) PROVIDE PUNCH OUTS IN BACKBOX TO ACCOMMODATE CONDUITS INDICATED.
- (N-4) TERMINATE CONDUIT WITH A 90 DEGREE BEND AND PLASTIC BUSHING IN THE ACCESSIBLE CEILING SPACE.
- (N-5) ALL RECEPTACLES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE TAMPER RESISTANT TYPE UNLESS INDICATED OTHERWISE.

1
E-1.1
TYPICAL WALL MOUNTED DEVICE DETAIL
SCALE: NTS

CONSTRUCTION PHASES – GENERAL REQUIREMENTS

CONSTRUCTION PHASES – GENERAL REQUIREMENTS IS A HIGH LEVEL OUTLINE ONLY DETAILING PLANNED PROJECT PHASES. REFER TO PROJECT SCHEDULE PROVIDED AS PART OF THE CLIENT'S / ARCHITECTURAL FRONT END DOCUMENTS.

- PHASE 1A**
- EXISTING DAYCARE WILL BE OCCUPIED AND FULLY FUNCTIONAL DURING CONSTRUCTION.
 - POWER AND LIGHTING TO ALL AREAS WITHIN THE EXISTING DAYCARE, EXCLUDING THOSE AREAS WITHIN CONSTRUCTION ZONES, MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.
- PHASE 2A**
- EXISTING DAYCARE ROOMS WILL BE RELOCATED TO NEW DAYCARE EXPANSION AND FULLY FUNCTIONAL DURING CONSTRUCTION.
 - POWER AND LIGHTING TO ALL AREAS WITHIN THE NEW DAYCARE EXPANSION MUST BE MAINTAINED THROUGHOUT CONSTRUCTION.

LEGEND

- EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO BASE BUILDING UTILITY LIGHTING CIRCUIT.
- EXISTING CEILING MOUNTED/SUSPENDED FIXTURE CONNECTED TO NON SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT.
- CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO BASE BUILDING UTILITY LIGHTING CIRCUIT.
- CEILING MOUNTED/SUSPENDED FIXTURE. CONNECT TO NON SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT.
- RECESSED DOWNLIGHT/PENDANT FIXTURE. CONNECT TO SWITCHED BASE BUILDING UTILITY LIGHTING CIRCUIT.
- RECESSED DOWNLIGHT/PENDANT FIXTURE. CONNECT TO NON SWITCHED 24-HOUR NIGHT LIGHTING CIRCUIT.
- CEILING OR WALL MOUNTED "EXIT" LIGHT.
- EMERGENCY BATTERY UNIT, TYPE 'D1', SOURCE 'M1'. BATTERY SHALL BE MOUNTED AT HIGH LEVEL.
- REMOTE EMERGENCY LIGHTING FIXTURE, TYPE 'D2' FED FROM SOURCE 'M1'.
- WHITE DECORA STYLE LIGHT SWITCH, VOLTAGE AND CURRENT RATINGS AS REQUIRED.
- WHITE DECORA STYLE LIGHT SWITCH C/W OCCUPANCY SENSOR, VOLTAGE AND CURRENT RATINGS AS REQUIRED.
- WALL MOUNTED ROOM LIGHT SWITCH WATT STOPPER LMSW-10X.
'OV1' DENOTES ONE (1) DIGITAL PUSH BUTTON.
'OV2' DENOTES TWO (2) DIGITAL PUSH BUTTONS.
'OV3' DENOTES THREE (3) DIGITAL PUSH BUTTONS.
'OV4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.
- WALL MOUNTED AREA LIGHT SWITCH WATT STOPPER LMSW-10X.
'OV1' DENOTES ONE (1) DIGITAL PUSH BUTTON.
'OV2' DENOTES TWO (2) DIGITAL PUSH BUTTONS.
'OV3' DENOTES THREE (3) DIGITAL PUSH BUTTONS.
'OV4' DENOTES FOUR (4) DIGITAL PUSH BUTTONS.
- 'TS' DENOTES WALL MOUNTED TIME SWITCH WATT STOPPER TS-400-24 C/W POWER PACK (VOLTAGE RATINGS TO SUIT LIGHTING LOADS) AND BOTH VISUAL AND AUDIBLE WARNING (TIMER PRESET AT 20 MINUTE TIME OUT SETTING).
- 15AMP/120VOLT, U-GROUND DUPLEX RECEPTACLE. GFI DENOTES OUTLET C/W GROUND FAULT INTERRUPT PROTECTION.
- RECEPTACLE, REQUIREMENT AS NOTED
- 20A/120V DUPLEX RECEPTACLE, TAMPER RESISTANT, CSA 5-20R (T-SLOT).
- 20A/120V PLUG LOAD CONTROLLED DUPLEX RECEPTACLE, TAMPER RESISTANT, CSA 5-20R (T-SLOT). HUBBELL DR20C2WHTR SERIES.
- DIRECT CONNECTION
- STARTER.
- NON-FUSED HORSEPOWER RATED VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION
- VISIBLE BLADE HEAVY DUTY DISCONNECT SWITCH C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A'
- COMBINATION STARTER C/W PADLOCK PROVISION IN OFF POSITION FUSED AT '15A', FUSES, OVERLOAD PROTECTION, CONTROL TRANSFORMER, 2 NO AND 2 NC CONTACTS, PILOT LIGHT AND HOA. FUSED AT '15A'.
- CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
- EXISTING CIRCUIT 'X' FED FROM RECEPTACLE PANEL 'A'. '(D)' DENOTES DESIGNATED CIRCUIT FOR ISOLATED GROUND DUPLEX RECEPTACLE.
- 4" SQUARE BACKBOX C/W SINGLE DEVICE COVER (PLASTER RING) AND 3/4" EMPTY ZONE CONDUIT ASSEMBLY FOR COMMUNICATIONS CONTRACTOR'S USE. PROVIDE A PULL STRING IN CONDUIT.
- 3 GANG BACKBOX C/W 3/4" EMPTY ZONE CONDUIT ASSEMBLY FOR A/V CONTRACTOR'S USE. PROVIDE A PULL STRING IN CONDUIT.
- DENOTES EXISTING DEVICE TO REMAIN.
- DENOTES EXISTING DEVICE TO BE REMOVED. REMOVE CONDUIT AND WIRE BACK TO SOURCE.
- DENOTES EXISTING DEVICE IN RELOCATED POSITION. PROVIDE CONDUIT AND WIRE BACK TO SOURCE.
- DENOTES EXISTING DEVICE TO REMAIN. RE-CIRCUIT AS SHOWN. REMOVE EXISTING CONDUIT AND WIRE BACK TO EXISTING SOURCE. PROVIDE CONDUIT AND WIRE BACK TO NEW SOURCE.
- DENOTES DEVICE COMPLETE WITH PROTECTIVE WIRE GUARD
- DENOTES CEILING MOUNTED.
- DENOTES SURFACE MOUNTED.
- DENOTES DEVICE MOUNTED IN CLOCK PANEL.
- DENOTES NEMA TYPE 4X ENCLOSURE SUITABLE FOR HOSE DIRECTED WATER.
- DENOTES ROOF MOUNTED.
- DENOTES PEDESTAL MOUNTED.
- FIRE ALARM SYSTEM HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- FIRE ALARM SYSTEM COMBINATION STROBE LIGHT/HORN. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- FIRE ALARM SYSTEM STROBE LIGHT. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM. RED IN COLOUR.
- MANUAL PULL STATION. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- MANUAL PULL STATION. CONNECT TO KITCHEN HOOD FIRE SUPPRESSION SYSTEM.
- SMOKE DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- HEAT DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.

- DUCT MOUNTED SMOKE DETECTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM PRESSURE SWITCH. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM FLOW SWITCH. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- SPRINKLER SYSTEM SUPERVISORY VALVE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- 24V WALL MOUNTED MAGNETIC DOOR HOLDER – SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR
- CONTROL ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- ISOLATION MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- INITIATING DEVICE INTERFACE ZONE MODULE. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- END OF LINE RESISTOR. CONNECT TO BASE BUILDING FIRE ALARM SYSTEM.
- WALL/CEILING MOUNTED PUBLIC ADDRESS SYSTEM PAGING SPEAKER. CONNECT TO PUBLIC ADDRESS SYSTEM. "CS" DENOTES DEVICE C/W CALL SWITCH.
- HANDSET. CONNECT TO PUBLIC ADDRESS SYSTEM.
- LOCKDOWN BUTTON. CONNECT TO PUBLIC ADDRESS SYSTEM.
- MICROPHONE. CONNECT TO PUBLIC ADDRESS SYSTEM.
- ADMINISTRATIVE CONTROL CONSOLE. CONNECT TO PUBLIC ADDRESS SYSTEM.
- PUBLIC ADDRESS SYSTEM HORN SPEAKER. CONNECT TO PUBLIC ADDRESS SYSTEM.
- EXISTING PUBLIC ADDRESS SYSTEM HORN SPEAKER CONNECTED TO EXISTING PUBLIC ADDRESS SYSTEM.
- ROOM CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMSC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
- OPEN AREA CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMSC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W MANUAL ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
- NON-SWITCHED CORRIDOR CEILING MOUNTED OCCUPANCY SENSOR WATT STOPPER LMSC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W AUTO ON AND AUTO OFF WALK THROUGH MODE ON AND DEFAULT SETTING.
- EQUIPMENT ROOM MOUNTED OCCUPANCY SENSOR WATT STOPPER LMSC-100. SENSOR PRESET AT 20 MINUTE TIME OUT SETTING C/W AUTO ON AND AUTO OFF AND DEFAULT DETECTION TECHNOLOGY SETTING.
- CEILING MOUNTED PHOTOSENSOR WATT STOPPER LMLS-400. SENSOR PRESET 35FC. "P" DENOTES PRIMARY SIDE LIGHTED AREA. "S" DENOTES SECONDARY SIDE LIGHTED AREA.
- DIGITAL ON/OFF/DIMMING ROOM CONTROLLER WATT STOPPER LLMRC-212/LMRC-212-347 (VOLTAGE RATING AS REQUIRED TO SUIT LIGHTING LOAD).
- DIGITAL DIMMING ROOM CONTROLLER WATT STOPPER 120V LINE VOLTAGE LLMRC-222.
- DIGITAL PLUG LOAD CONTROLLER WATT STOPPER LMPL-101
- PHOTOCCELL SENSOR (VOLTAGE RATINGS TO SUIT LIGHTING LOADS) SUITABLE FOR COLD WEATHER OPERATION. PRESET SENSOR AT 10FC.
- THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT AND WIRE.
- WIRED INTRUSION SYSTEM MOTION SENSOR. CONNECT TO INTRUSION SYSTEM.
- WIRED INTRUSION SYSTEM DOOR CONTACT. CONNECT TO INTRUSION SYSTEM.
- KEYPAD. CONNECT TO INTRUSION SYSTEM. ICT PRT-KLCS-B.
- DOOR CONTACT. CONNECT TO EXISTING INTRUSION SYSTEM.
- MOTION SENSOR. CONNECT TO EXISTING INTRUSION SYSTEM.
- HANDICAP WAVE SENSOR C/W CONDUIT AND WIRES
- CARD READER. CONNECT TO ACCESS CONTROL SYSTEM. ICT PRX-TSEC-EXTRA-BT-B.
- ELECTRIC STRIKE. CONNECT TO ACCESS CONTROL SYSTEM.
- AUDIBLE ALARM. CONNECT TO ACCESS CONTROL SYSTEM.
- MOTION DETECTOR REQUEST TO EXIT. CONNECT TO ACCESS CONTROL SYSTEM.
- DOOR OPERATOR INTERFACE DEVICE
- UNIVERSAL WASHROOM DURESS SYSTEM CIRCUIT ACCESS CONTROL SYSTEM INTERFACE C/W CONDUIT AND WIRE.
- UNIVERSAL WASHROOM DURESS SYSTEM STATION
- UNIVERSAL WASHROOM DURESS SYSTEM COMBINATION STROBE LIGHT/HORN
- VIDEO INTERCOM DOOR STATION, AIPHONE JP SERIES JP-DVF.
- VIDEO INTERCOM MASTER STATION AIPHONE JP SERIES JP-4MED C/W MULTIPLE DOOR RELEASE ADAPTER RY-3DL.
- VIDEO INTERCOM SUB-MASTER STATION, AIPHONE JP SERIES JP-4HD.
- VIDEO INTERCOM POWER SUPPLY, AIPHONE PS-2420UL.
- VIDEO INTERCOM DISTRIBUTION ADAPTOR FOR SUB-MASTER STATION, AIPHONE JP-8Z.
- DRYER AMP SENSOR SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT AND WIRE.
- WIREFLESS ACCESS POINT C/W CONDUIT SYSTEM
- CCTV CAMERA C/W CONDUIT SYSTEM
- CAR CHARGING STATION 'X'. 'FT' DENOTES CONDUIT AND ROUGH-IN ONLY FOR FUTURE USE

1. SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
2. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO LIGHTING CONTROL ELECTRICAL DISTRIBUTION, RECEPTACLE PANELS, LIGHTING FIXTURES, EXIT SIGNS, EMERGENCY LIGHTING SYSTEMS, FIRE ALARM SYSTEMS, PINK ADDRESS SYSTEM, ACCESS CONTROL SYSTEM, INTRUSION SYSTEM, VIDEO INTERCOM SYSTEM, RECEPTACLES, COVER PLATES, DIMMERS, SWITCHES AND GROUNDING SYSTEM MATERIALS.
3. ELECTRICAL CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH ELECTRICAL SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
4. CIRCUITING MUST BE COMPLETED AS SHOWN ON DRAWINGS. DO NOT CHANGE CIRCUIT NUMBERS.
5. INSTALLATION OF ALL DEVICES AND SERVICES INCLUDING DISTRIBUTION, LIGHT FIXTURES, FEEDERS, BRANCH CIRCUITS, VARIOUS SYSTEMS, ETC. MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
6. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, MOUNTING HEIGHTS, CONSTRUCTION DETAILS, LOCATION OF LIGHT FIXTURES, FINISHES AND COLOURS.
7. AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE FIRE ALARM MANUFACTURER, FIRE INSPECTOR AND BUILDING INSPECTOR TO THOROUGHLY REVIEW THE PROPOSED INSTALLATION LOCATIONS FOR EACH AND EVERY CONTROL PANEL, REMOTE ANNUNCIATOR PANEL, ANCIARY DEVICE, FIELD DEVICE, ETC TO ENSURE THAT THE PROPOSED INSTALLATION IS FULLY COMPLIANT WITH CAN/ULC S524:2019 AND ONTARIO BUILDING CODE. COMPLIANCE SHALL INCLUDE INTERFERENCE AND PROXIMITY TO EXISTING DEVICES AND OBSTRUCTIONS (INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, SUPPLY AIR DUCTS, EXPOSED DUCT WORK, BEAMS, RACEWAYS, ETC.), SPACING BETWEEN FIELD DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK IN PROPOSED INSTALLATION LOCATIONS, ETC..
8. AS PART OF THIS SCOPE OF WORK AND PRIOR TO CONSTRUCTION, ELECTRICAL CONTRACTOR SHALL COORDINATE AND PAY FOR THE SERVICES OF THE BUILDING INSPECTOR TO REVIEW THE PROPOSED EXIT SIGN ORIENTATION, LOCATIONS, FACES AND CHEVRONS.
9. AS BUILT DRAWING REQUIREMENTS:
AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE ELECTRICAL CONTRACTOR.
• ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
• ROUTING OF ALL FEEDERS, BRANCH WIRING (LIGHTING, EMERGENCY LIGHTING, POWER, ETC.), LOW VOLTAGE WIRING, MISCELLANEOUS SYSTEMS WIRING, MISCELLANEOUS CONDUIT SYSTEMS, ETC. TO BE SHOWN ON AS BUILT DRAWINGS.
REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND FOR COSTS TO OBTAIN CAD FILES.
10. AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE A FIRE WATCH AS REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.
11. **INFECTIOUS CONTROL**
1. DUST CONTROL IS REQUIRED ON ALL FLOORS IN THE FACILITY.
2. THE FOLLOWING REQUIREMENTS MUST BE STRICTLY ADHERED TO:
1. LIMIT THE NUMBER OF CEILING TILES REMOVED ON A FLOOR AT ANY GIVEN TIME.
2. VACUUM PERIMETER OF T-BAR PRIOR TO REMOVAL OF A CEILING TILE.
3. ATTACH VACUUMS TO ALL DRILLS.
12. ALL SCOPES OF WORK REQUIRED TO BE COMPLETED IN OCCUPIED AREAS OF THE FACILITY INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 4PM AND 11PM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
13. THE CONTRACTOR MUST ENSURE THAT FIRESTOPPING AND SEALANTS ARE INSTALLED AT NEW FLOOR OPENINGS IN ACCORDANCE WITH THE CURRENT FIRE CODE REQUIREMENTS AND TO PREVENT WATER LEAKAGE TO THE FLOORS BELOW. AREAS PRONE TO WATER LEAKAGE ARE TO BE WATERPROOFED PRIOR TO INSTALLATION OF THE TENANT FLOOR COVERINGS. THE LANDLORD WILL APPROVE THE PROPOSED WATERPROOFING METHOD PRIOR TO THE TENANT PROCEEDING WITH CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL FIRESTOPPING REQUIREMENTS.
14. PROVIDE A REPORT FROM THE MANUFACTURER FOR ALL FIRESTOP ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT MUST DETAIL COMPLIANCE WITH VANCOUVER BUILDING BY-LAW AND BRITISH COLUMBIA BUILDING CODE.
15. ALL PANEL SCHEDULE DIRECTORIES MUST BE UPDATED AND TYPEDWRITTEN PANEL SCHEDULE DIRECTORIES MUST BE PROVIDED. SELF-ADHESIVE LABELING TAPE MUST BE USED FOR ALL LABELING AT ALL OUTLETS. LAMACOIDS MUST BE USED FOR LABELING OF ALL ELECTRICAL ENCLOSURES.
16. PROJECT WILL BE BUILT OUT OVER A NUMBER OF CONSTRUCTION PHASES. REFER TO ARCHITECTURAL DRAWINGS AND CONSTRUCTION SCHEDULE FOR ADDITIONAL REQUIREMENTS. PROVIDE TEMPORARY POWER, EXIT SIGNS AND EMERGENCY LIGHTS AS REQUIRED TO ENSURE THAT NON-CONSTRUCTION AREAS ARE NOT IMPACTED BY RESPECTIVE CONSTRUCTION PHASE, THROUGHOUT CONSTRUCTION.
17. AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL ALLOW FOR 40 HOURS INVESTIGATION TIME TO CONFIRM AND FINALIZE ALL FEEDER ROUTES AND LOW VOLTAGE/SYSTEM CONDUIT ROUTES PRIOR TO CONSTRUCTION. ALLOW TO EXTEND ALL CONDUIT AND WIRE LENGTHS BY UP TO 40' TO ACCOMMODATE INSTALLATION.

DRAWING LIST

E-1.1	- ELECTRICAL LEGEND AND DETAILS
E-1.2	- ELECTRICAL DETAILS
E-1.3	- ELECTRICAL DETAILS
E-1.4	- ELECTRICAL DETAILS
E-1.5	- ELECTRICAL DETAILS
E-1.6	- ELECTRICAL DETAILS
E-1.7	- ELECTRICAL DETAILS
E-1.8	- ELECTRICAL DETAILS
E-1.9	- ELECTRICAL DETAILS
E-1.10	- ELECTRICAL DETAILS
E-2.0	- PARTIAL ELECTRICAL FACILITY PLAN
E-2.1	- ELECTRICAL PLAN
E-2.2	- ELECTRICAL ROOF PLAN
E-3.1	- REFLECTED CEILING PLAN
E-4.1	- ELECTRICAL GROUNDING SYSTEM DETAILS
E-5.1	- ELECTRICAL DEMOLITION PLAN
E-5.2	- ELECTRICAL ROOF DEMOLITION PLAN
E-6.1	- REFLECTED CEILING DEMOLITION PLAN
E-7.1	- ELECTRICAL SINGLE LINE DIAGRAM
E-8.1	- ELECTRICAL SITE PLAN
E-8.2	- ELECTRICAL SITE DEMOLITION PLAN
E-9.1	- ELECTRICAL PLANS - WASHROOMS 107 & 112
E-9.2	- ELECTRICAL PLANS - CORRIDORS C101 & C102

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2	ISSUED FOR PERMIT	MAY 30/24	KZ
3	ISSUED FOR TENDER	JUN 21/24	KZ
4	ISSUED FOR REVIEW	SEP 04/24	KZ
5	ISSUED FOR TENDER	OCT 01/24	KZ

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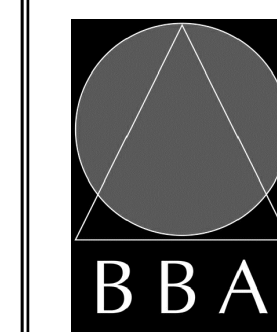


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
**ELECTRICAL LEGEND AND
DETAILS**



**BARRY BRYAN
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AS SHOWN	
FILE:	

PROJECT NO: **23029**
DRAWING NO: **E-1.1**

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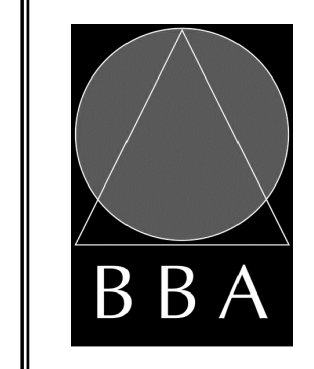


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

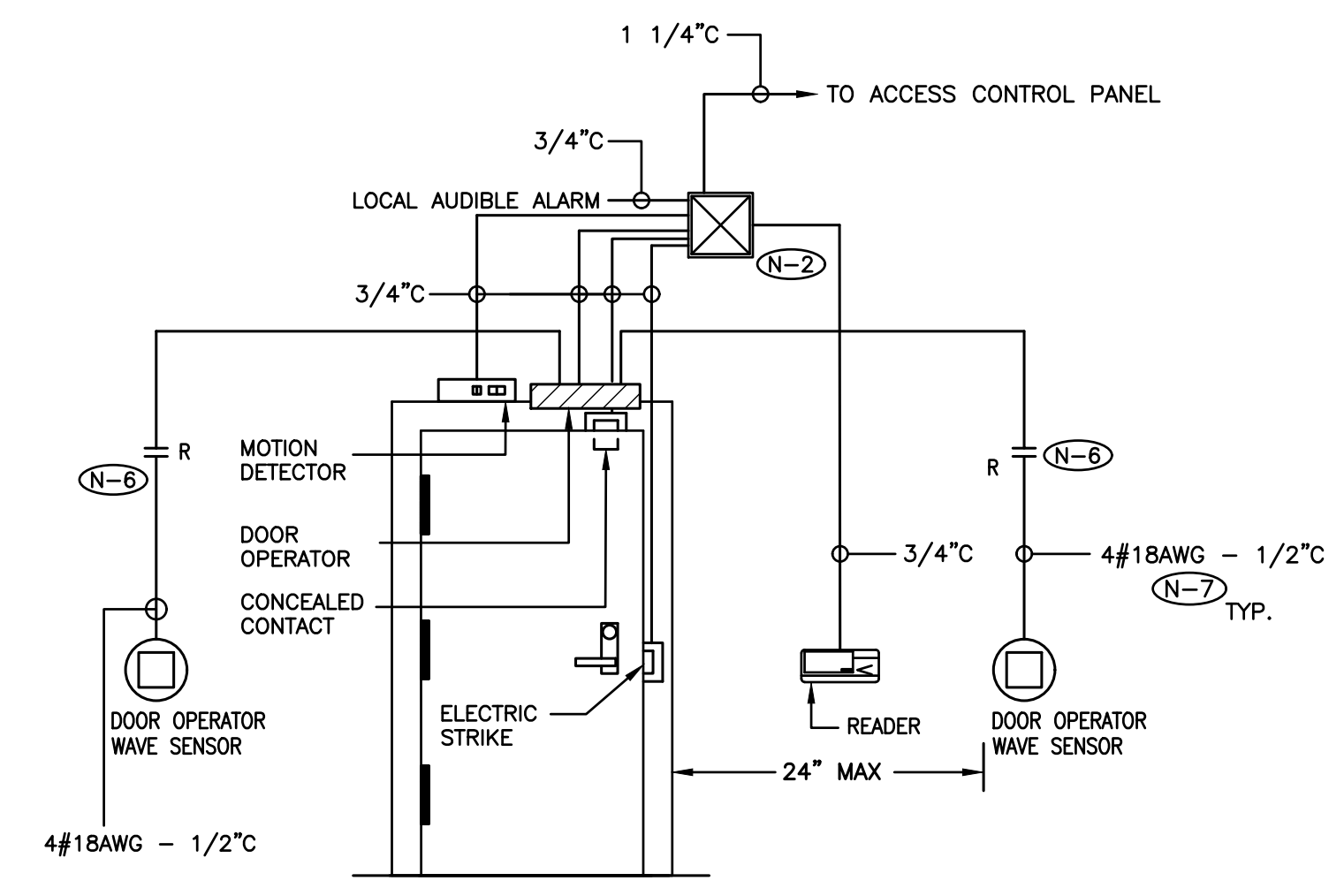
DRAWING:
ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES
 Architects
 Engineers
 Project Managers

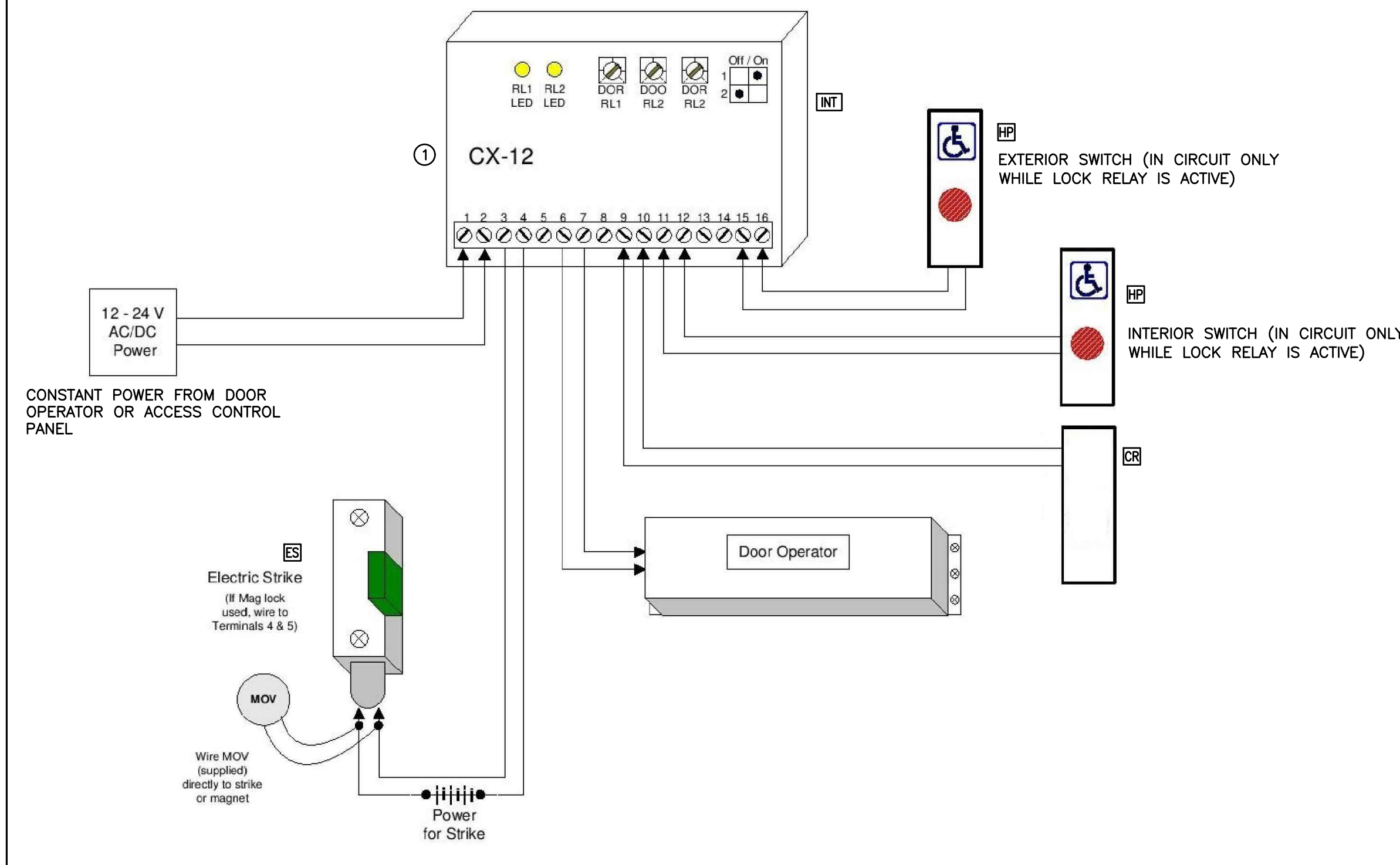
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PROJECT NO: **23029**
 DRAWING NO: **E-1.2**



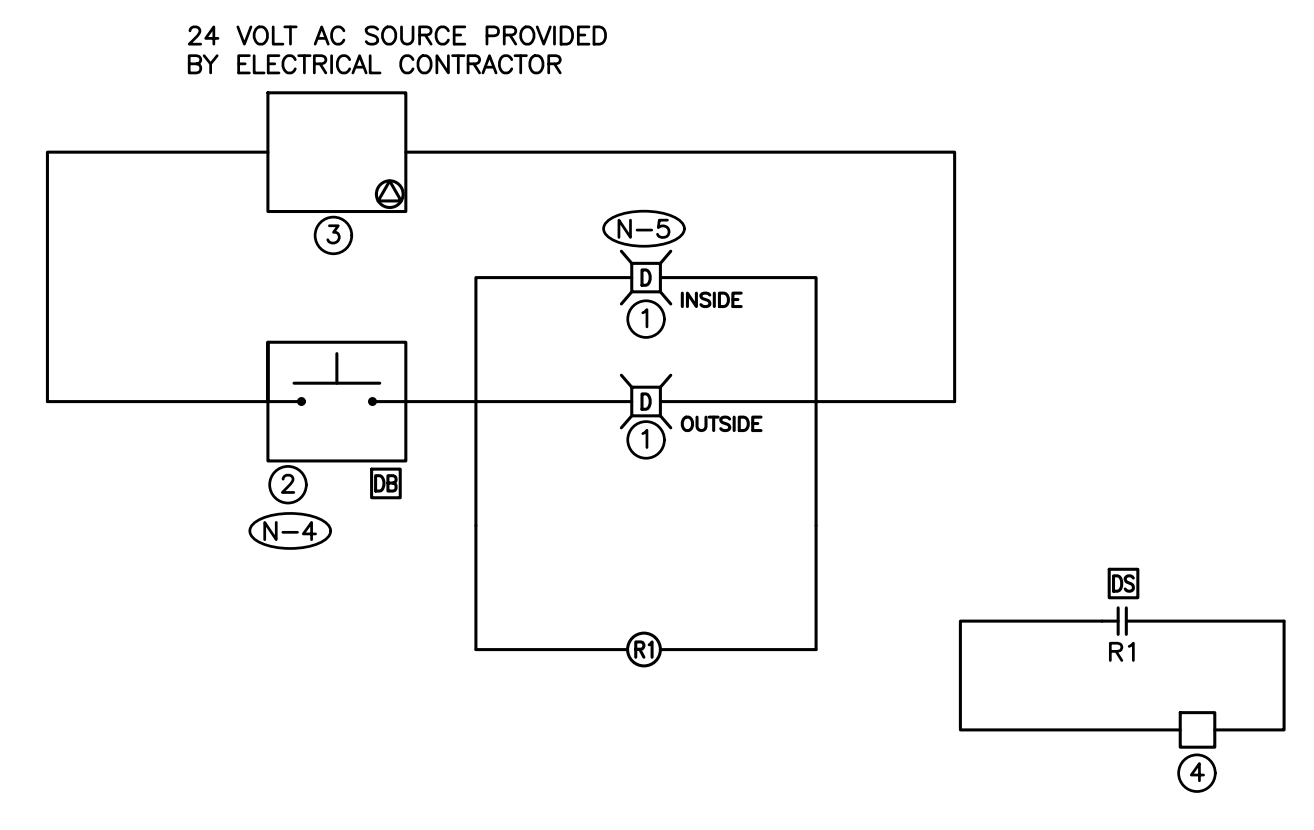
- (N-1) ROUGH-IN DETAILS ARE DIAGRAMMATIC. REFER TO FLOOR PLANS FOR ADDITIONAL REQUIREMENTS, DEVICE QUANTITY AND LOCATION.
- (N-2) PULLBOX INDICATED MUST BE LOCATED AT THE SECURED SIDE OF THE DOOR. MINIMUM PULLBOX SIZE 10" X 10" C/W FOUR (4) SECURITY SCREWS TYPE SNAKE EYES.
- (N-3) ALL ZONE CONDUITS C/W PULL STRING
- (N-4) CONTACT SECURITY CONTRACTOR FOR EXACT LOCATION OF SECURITY SYSTEM CABINET, ADDITIONAL CONDUIT AND PULLBOX REQUIREMENTS AND FOR POWER REQUIREMENTS.
- (N-5) ALL POWER AND CONDUIT WORK REQUIRED AND/OR SHOWN ON DRAWINGS RELATED TO SECURITY SYSTEM SHALL BE INCLUDED IN ELECTRICAL CONTRACTOR'S PRICE. CONTACT SECURITY CONTRACTOR FOR SPECIFIC REQUIREMENTS.
- (N-6) PROVIDE DOOR OPERATOR INTERFACE DEVICE TO PREVENT AUTOMATIC DOOR OPERATION WHILE THE ELECTRIC STRIKE IS ENERGIZED. REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.2 FOR ADDITIONAL REQUIREMENTS.
- (N-7) EQUIP THE HANDICAP DOOR OPENER SYSTEM WITH A CONTROL CIRCUIT TO ALLOW FOR AUTOMATIC DOOR OPENING WHEN A CARD IS UTILIZED AT THE READER. DEPRESSING OF THE HANDICAP PUSH BUTTON WILL NOT BE REQUIRED.

1 CARD ACCESS CONTROL SYSTEM ROUGH-IN DETAILS
 SCALE: NTS



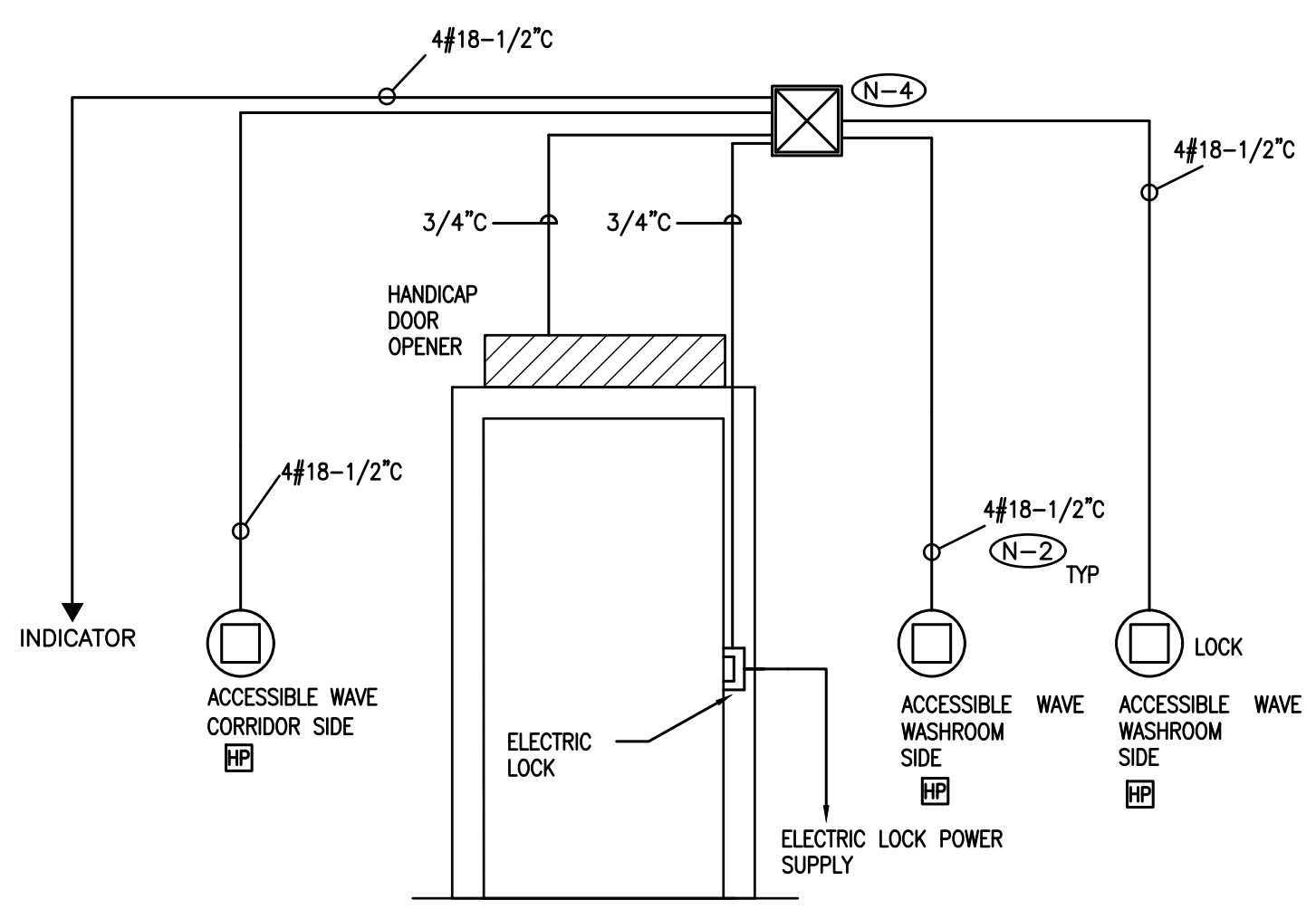
2 DOOR OPERATOR INTERFACE SCHEMATIC
 SCALE: NTS

- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF INTERFACE DEVICES, HARDWARE, DEVICES, POWER CIRCUITS, CONDUIT, WIRE, SECURITY CABLES, ETC. TO ENSURE A FULLY OPERATIONAL SECURITY SYSTEM. REFER TO ROOM LAYOUTS AND FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
 - (N-2) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
 - (N-3) ALL CONDUITS TO BE EMT. EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SET SCREW TYPE. PROVIDE SPARE PULLSTRING IN ALL CONDUITS FOR FUTURE USE.
 - (N-4) ELECTRICAL CONTRACTOR SHALL NOT USE PULLBOXES AS SUBSTITUTES FOR 90° BENDS. 12" X 12" X 6" PULLBOXES C/W TYPE SNAKE EYE SECURITY SCREWS SHALL BE PROVIDED ON THE BASIS OF NOT MORE THAN TWO (2) RIGHT ANGLE BENDS OR NOT MORE THAN 100' IN STRAIGHT RUNS BETWEEN BOXES.
 - (N-5) CONTACT INTRUSION SYSTEM MANUFACTURER FOR ADDITIONAL WIRE, CONDUIT, PULLBOX AND POWER REQUIREMENTS OVER AND ABOVE THOSE SHOWN ON DRAWING.
 - (N-6) CONTACT VIDEO INTERCOM SYSTEM MANUFACTURER FOR ADDITIONAL WIRE, CONDUIT, PULLBOX AND POWER REQUIREMENTS OVER AND ABOVE THOSE SHOWN ON DRAWING.
 - (N-7) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- ① DOOR OPERATOR INTERFACE DEVICE - CAMDEN DOOR CONTROLS CX-12 SWITCHING NETWORK AND BI-DIRECTIONAL DOOR SEQUENCER



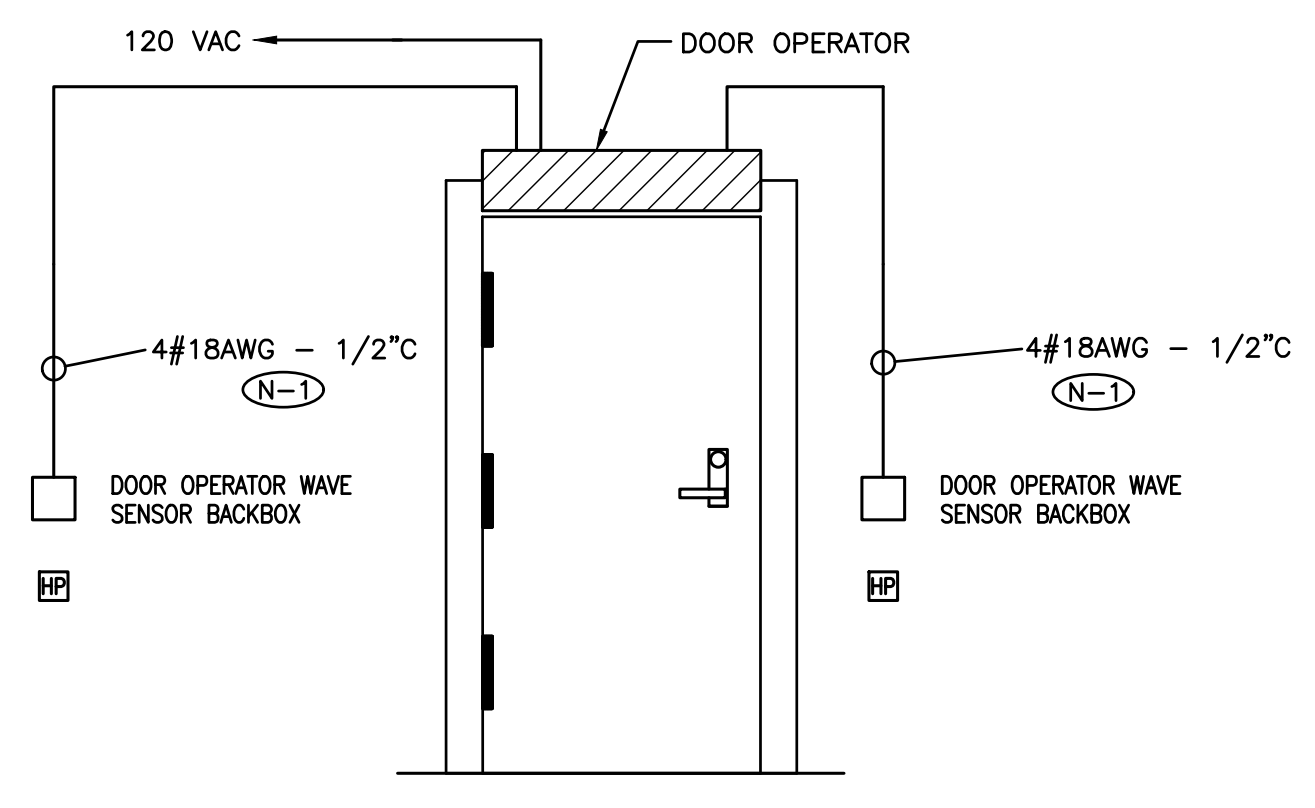
- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR LOCATION AND QUANTITY OF DEVICES.
 - (N-2) PROVIDE WIRING, CONTACTORS AND DUAL VOLTAGE RELAYS (DVR'S) AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM.
 - (N-3) ALL LOW VOLTAGE WIRING TO BE ENCLOSED IN A CONDUIT SYSTEM.
 - (N-4) PROVIDE EDWARDS SIGN-EMERG-PUSH SIGNAGE PER OBC ABOVE THE DURESS SYSTEM STATION.
 - (N-5) WIRE THE APPLIANCE INDICATED FOR VISUAL ALARM ONLY.
 - (N-6) PROVIDE DEDICATED CORE DRILLED WALL PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- ① DURESS SYSTEM COMBINATION STROBE LIGHT/HORN - EDWARDS 6536-G5
 ② DURESS SYSTEM STATION, PUSH BUTTON - EDWARDS SS-2001E C/W SUB-102722-R SPACER
 ③ TRANSFORMER - EDWARDS 592
 ④ SECURITY SYSTEM ACCESS CONTROL PANEL PROVIDED AS PART OF THIS SCOPE OF WORK.

3 UNIVERSAL WASHROOM DURESS SYSTEM SCHEMATIC DIAGRAM
 SCALE: NTS



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

4 ELECTRONIC DOOR LOCK ROUGH-IN DETAIL
 SCALE: NTS



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

5 BARRIER FREE DOOR OPENER SYSTEM DETAIL
 SCALE: NTS

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5	ISSUED FOR TENDER	OCT 01/24	KZ

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 TEL: (416) 932-2423

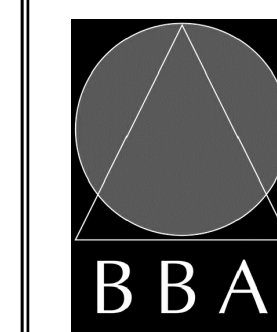


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES

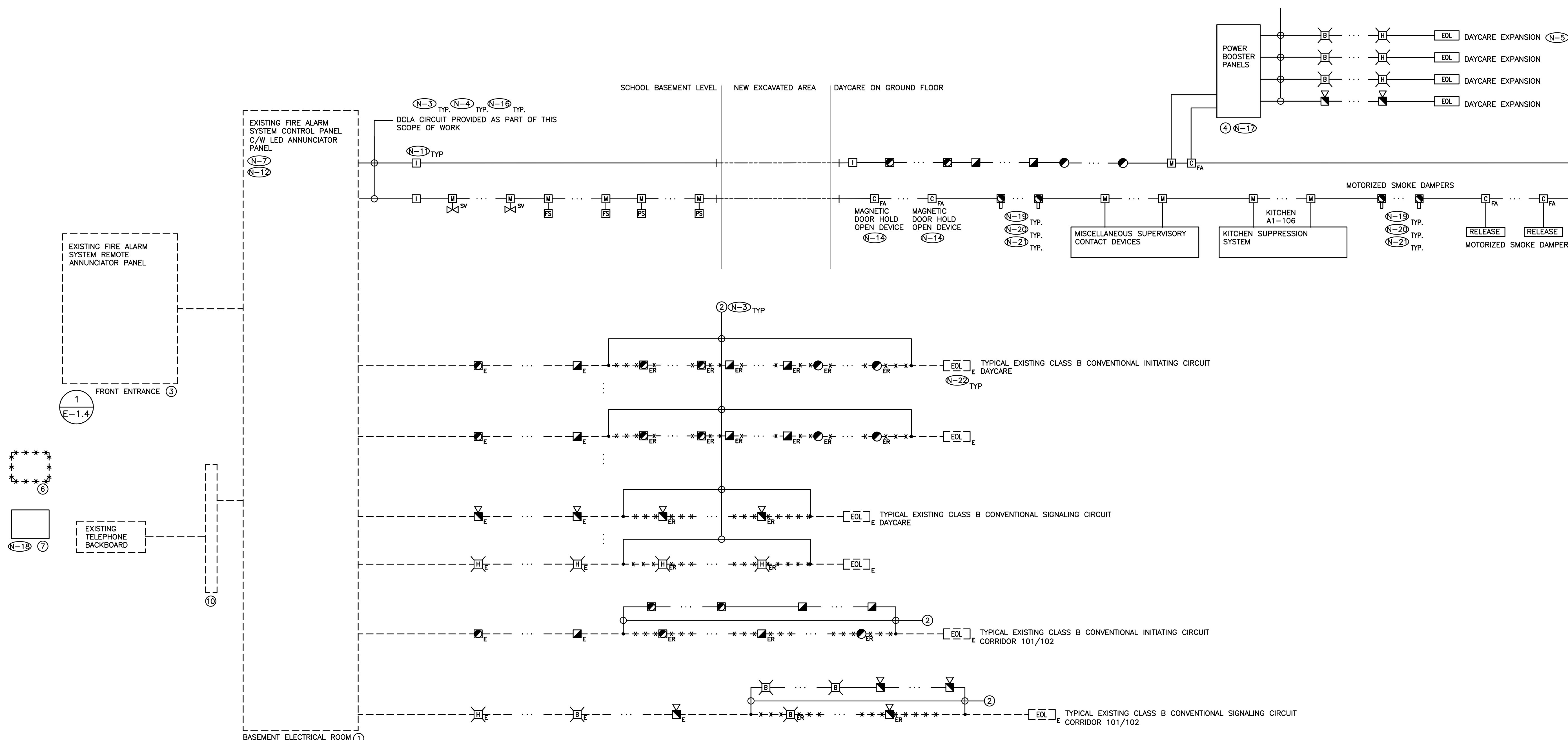
Architects
 Engineers
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201-250 Water Street
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 Tel: (905) 666-5252
 Fax: (905) 666-5256
 e-mail: bba@bba-associates.com

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DATE: FEB 2023	
SCALE: AS SHOWN	
FILE:	

PROJECT NO: **23029**
 DRAWING NO: **E-1.3**

DCLB CIRCUIT PROVIDED AS PART OF THIS SCOPE OF WORK



- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, MODULES, ACCESSORIES, DEVICES, CONDUIT, WIRE, ETC. TO ENSURE A FULLY OPERATIONAL FIRE ALARM SYSTEM.
- (N-2) REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES (IE. WIRE GUARD, EXPLOSION PROOF DEVICES, WEATHER PROOF DEVICES, ETC)
- (N-3) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-4) EACH DCLA WIRING LOOP SHALL BE LIMITED TO SERVING DEVICES ON ONE FLOOR.
- (N-5) PROVIDE STROBE CIRCUIT SYNCHRONIZATION MODULES.
- (N-6) PROVIDE 24VDC CIRCUITS FOR STROBES AND OTHER 24VDC DEVICES. MAXIMUM LOAD ON EACH CIRCUIT SHALL NOT EXCEED 70%. CIRCUIT REQUIREMENTS NOT SHOWN ON RISER DIAGRAM.
- (N-7) MODIFY, REWORK AND PROVIDE ALL COMPONENTS AND ACCESSORIES FOR CONTROL PANEL AS REQUIRED TO ACCOMMODATE ALL SCOPES OF WORK AS NOTED ON DRAWINGS AND IN SPECIFICATION.
- (N-8) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR FOR FIRE ALARM SYSTEM CONDUITS/CABLES. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-9) ALL NEW FIRE ALARM SYSTEM DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE CONNECTED TO CIRCUITS PROVIDED AS PART OF THIS SCOPE OF WORK. DO NOT REUTILIZE EXISTING CIRCUITS OR WIRING.
- (N-10) NOT USED.
- (N-11) PROVIDE LINE ISOLATOR MODULES TO ISOLATE DCLA SEGMENTS ON A PER FIRE ALARM ZONE BASIS, ON A PER FLOOR BASIS AND AS REQUIRED BY THE MANUFACTURER AND BY ONTARIO BUILDING CODE. NOTE: PROVIDE ADDITIONAL LINE ISOLATOR MODULES AS REQUIRED OVER AND ABOVE THOSE SHOWN ON RISER DIAGRAM TO SATISFY ISOLATION REQUIREMENTS.
- (N-12) PROVIDE ADDITIONAL BATTERIES IN EXISTING CONTROL PANEL AS REQUIRED TO SUPPORT THE TOTAL LOAD REQUIREMENTS AT THE COMPLETION OF THIS PROJECT.
- (N-13) PROVIDE ULC APPROVED DAMPENING MATERIALS AS REQUIRED DURING VERIFICATION FOR ALL FIRE ALARM HORNS PROVIDED AS PART OF THIS SCOPE OF WORK TO DECREASE AUDIBILITY LEVELS TO BELOW 100 DBA.
- (N-14) PROVIDE PROGRAMMING TO INITIATE THE RELEASE OF MAGNETIC DOOR HOLD OPEN DEVICE WHEN FIRE ALARM SYSTEM IS ACTIVATED. PROVIDE REQUIRED WIRING, COMPONENTS, ACCESSORIES, ETC.
- (N-15) REFER TO FIRE ALARM SYSTEM ZONE SCHEDULE FOR ADDITIONAL REQUIREMENTS NOT SHOWN ON DRAWINGS. PROVIDE ZONE MODULES, CONTACTORS, ENCLOSURES AND DVRs REQUIRED.
- (N-16) MINIMUM NUMBER OF DCLA CIRCUITS PER FLOOR(S) INDICATED ON DRAWING. PROVIDE ADDITIONAL DCLA CIRCUITS C/W CONDUIT AND WIRE AS REQUIRED BY MANUFACTURER TO ACCOMMODATE QUANTITY OF DEVICES DETAILED ON FLOOR PLANS. MAXIMUM NUMBER OF DEVICES ON EACH DCLA CIRCUIT SHALL NOT EXCEED 70% OF MANUFACTURER'S STATED LOAD MAXIMUMS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-17) PROVIDE REMOTE ULC APPROVED BOOSTER PANELS AND POWER SUPPLIES, C/W BATTERIES APPROVED FOR THE SIGNALING DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR LOCATION AND QUANTITY OF SIGNALING DEVICES. PROVIDE ADDRESSABLE INPUT MODULE TO MONITOR THE TROUBLE RELAY.
- (N-18) FIRE ALARM SYSTEM PASSIVE GRAPHIC PROVIDED AS PART OF THIS SCOPE OF WORK SHALL INCORPORATE ALL ITEMS TYPICALLY SHOWN ON AN ESSENTIAL SERVICE GRAPHIC. COORDINATE EXACT REQUIREMENTS WITH CLIENT DURING SHOP DRAWING PROCESS.
- (N-19) DUCTMOUNT SMOKE DETECTORS SHALL BE HARD WIRED INTO CORRESPONDING FAN CIRCUITS TO DIRECTLY SHUT DOWN FANS UPON FIRE ALARM CONDITION. PROVIDE CONTACTORS, DVR'S AND ENCLOSURES REQUIRED.
- (N-20) PROVIDE REMOTE INDICATING LED FOR EACH DUCTMOUNT SMOKE DETECTOR. EXACT MOUNTING LOCATION TO BE DETERMINED ON SITE. LED'S NOT SHOWN ON DRAWINGS.
- (N-21) EXACT MOUNTING LOCATION OF DUCT MOUNTED SMOKE DETECTORS TO BE DETERMINED BY MANUFACTURER ON SITE.
- (N-22) REPLACE EXISTING END OF LINE RESISTORS WITH NEW AND RELOCATE AS REQUIRED TO ACCOMMODATE THE DEMOLITION AND BUILD OUT OF PARTITIONS BY GENERAL CONTRACTOR. CONTACT MANUFACTURER FOR ADDITIONAL REQUIREMENTS.

- ① EXISTING FIRE ALARM SYSTEM CONTROL PANEL - CHUBB EDWARD EST3X
- ② CONDUIT AND WIRE PER MANUFACTURER'S REQUIREMENTS
- ③ EXISTING FIRE ALARM SYSTEM REMOTE LED ANNUNCIATOR PANEL
- ④ FIRE ALARM SYSTEM BOOSTER PANEL PROVIDED AS PART OF THIS SCOPE OF WORK
- ⑤ NOT USED.
- ⑥ EXISTING FIRE ALARM SYSTEM PASSIVE GRAPHIC
- ⑦ FIRE ALARM SYSTEM PASSIVE GRAPHIC PROVIDED AS PART OF THIS SCOPE OF WORK.
- ⑧ NOT USED.
- ⑨ NOT USED.
- ⑩ EXISTING FIRE ALARM SYSTEM DEMARCATION INTERFACE BOX

ELECTRICAL CONTRACTOR MUST PROCURE THE SERVICES OF CHUBB TO PROVIDE REMOTE ALARM MONITORING

BASE BUILDING FIRE ALARM SYSTEM MANUFACTURER CONTACT:
 KEVIN SOUSA, CHUBB FIRE & SECURITY CANADA INC.
 KEVIN.SOUSA@CHUBBFS.COM
 905-629-2600

- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- DENOTES EXISTING TO REMAIN
- ***** DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR
- DENOTES DIRECT BURIED CONDUIT PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE FIRE ALARM CIRCUIT THROUGH ENTIRE LENGTH OF RUN BACK TO SOURCE CONTROL PANEL / ANCILLARY POWER SUPPLY CABINET.

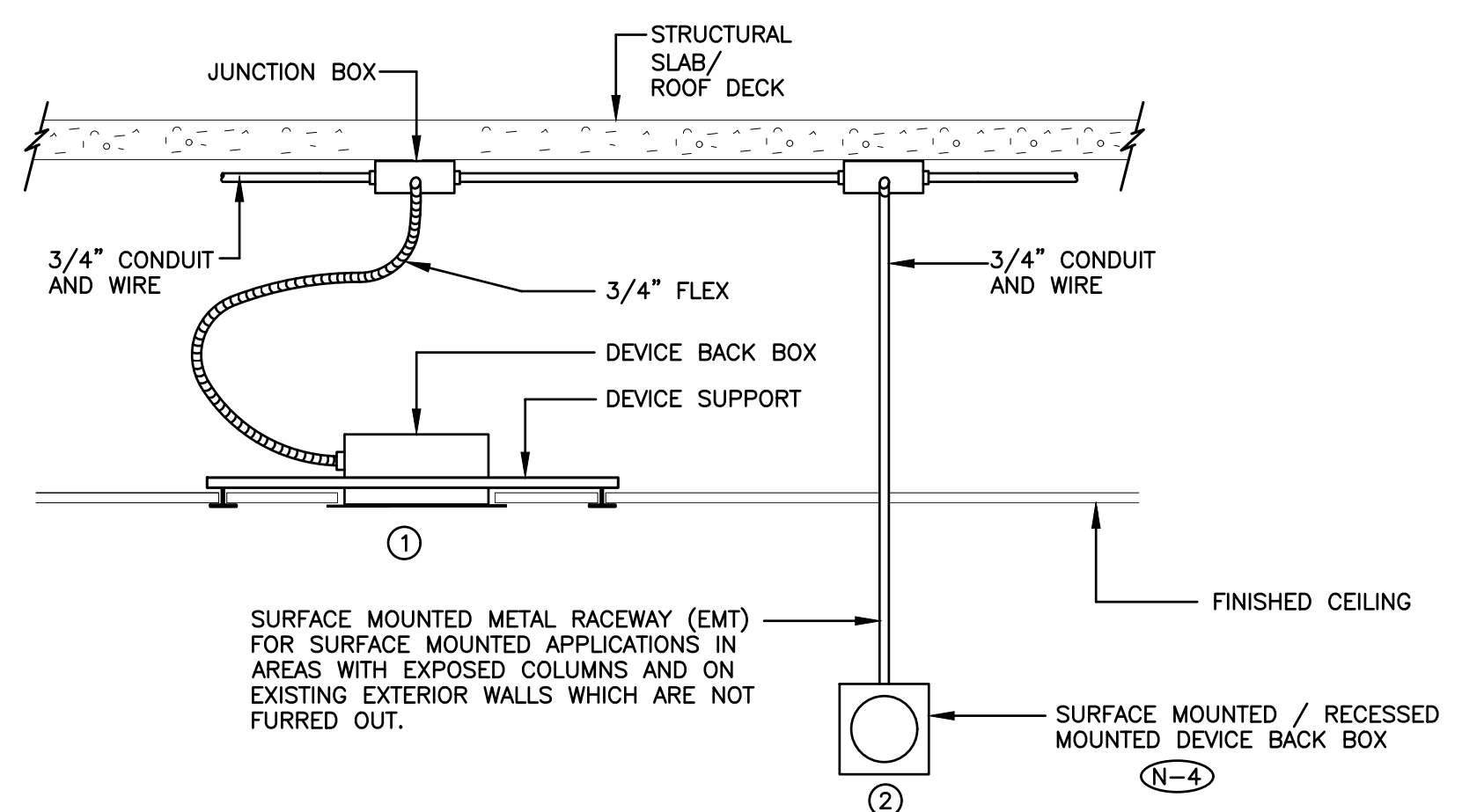
(N-1)

DWG FIRE ZONE NO.	FIRE ZONE ID LABEL (N-3)	INITIATING DEVICE	ALARM SIGNAL	TROUBLE SIGNAL
1	DAYCARE EXPANSION	☑ ☑ ☑	*	
2	KITCHEN FIRE SUPPRESSION SYSTEM	SC	*	
3	KITCHEN FIRE SUPPRESSION SYSTEM	SC		*
DMSD01	RTU-1	☑	*	
SV01	INCOMING WATER MAIN ISOLATION SUPERVISORY VALVE	SV		*
SV02	WATER METER INLET SUPERVISORY VALVE	SV		*
SV03	WATER METER OUTLET SUPERVISORY VALVE	SV		*
SV04	WATER METER BYPASS SUPERVISORY VALVE	SV		*
SV05	BACKFLOW INLET SUPERVISORY VALVE	SV		*
SV06	BACKFLOW OUTLET SUPERVISORY VALVE	SV		*
SV07	FIRE PUMP SUCTION SUPERVISORY VALVE	SV		*
SV08	FIRE PUMP DISCHARGE SUPERVISORY VALVE	SV		*
SV09	FIRE PUMP BYPASS SUPERVISORY VALVE	SV		*
SV10	WET SPRINKLER ISOLATION SUPERVISORY VALVE	SV		*
FS01	STANDPIPE FLOW SWITCH	FS	*	
FS02	WET SPRINKLER FLOW SWITCH	FS	*	
PS01	STANDPIPE PRESSURE SWITCH	PS		*

(N-5)

DWG FIRE ZONE NO.	EXISTING FIRE ZONE ID LABEL	INITIATING DEVICE	ALARM SIGNAL	TROUBLE SIGNAL
1(EX)	DAYCARE EXPANSION	☑ ☑	*	
SV01(EX)	EXISTING SPRINKLER	SV		*
SV02(EX)	EXISTING SPRINKLER	SV		*
SV02(EX)	EXISTING SPRINKLER	SV		*
SV03(EX)	EXISTING SPRINKLER	SV		*
FS01(EX)	EXISTING SPRINKLER	FS	*	

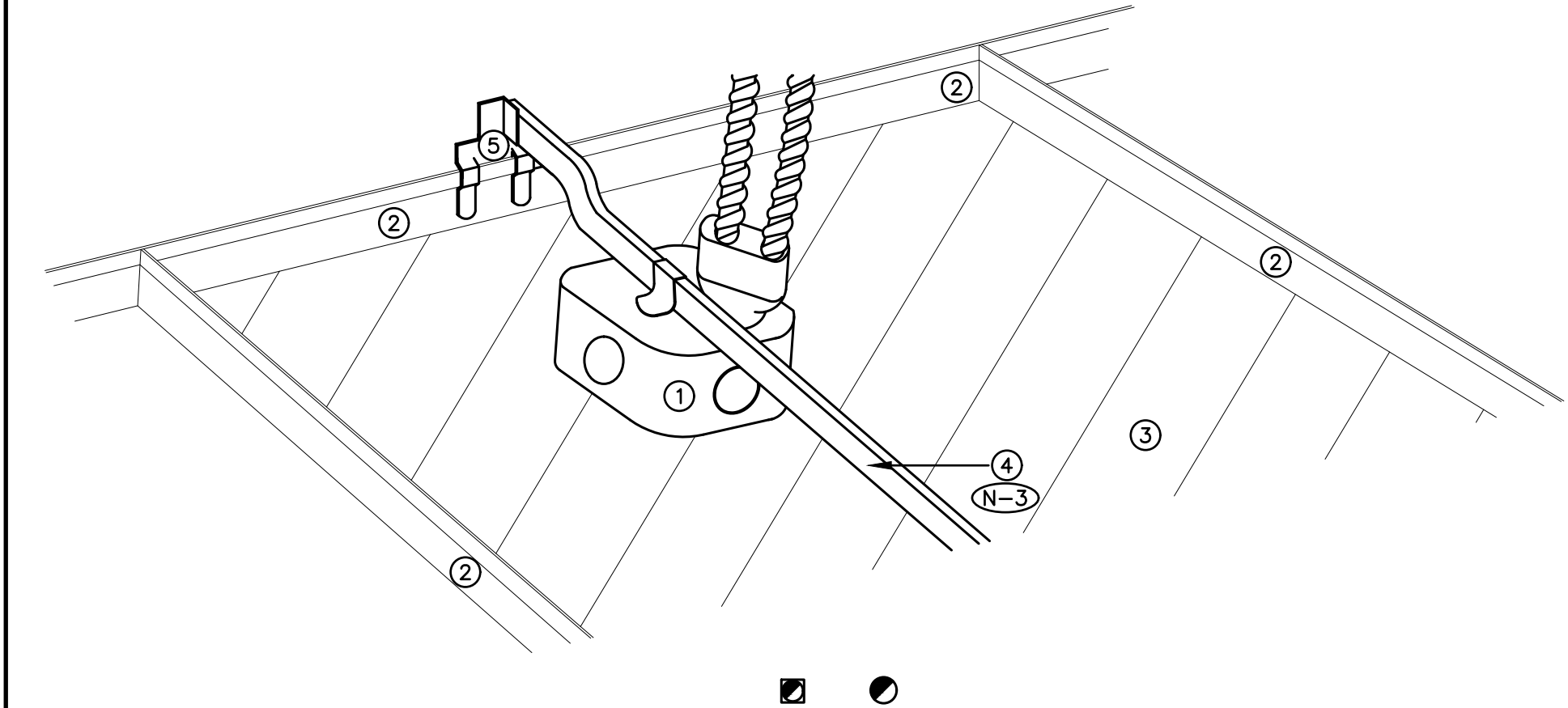
- (N-1) SCHEDULE REFLECTS NEW ZONES TO BE ADDED TO THE BASE BUILDING FIRE ALARM SYSTEM AS PART OF THIS SCOPE OF WORK. UPDATE EXISTING BASE BUILDING FIRE ALARM SYSTEM CPU, TRANSPONDER, ANNUNCIATOR PANELS, PASSIVE GRAPHIC DISPLAY, ACTIVE GRAPHIC DISPLAY, ETC.
- (N-2) SEQUENCE OF OPERATIONS AND ALARM/ALERT SIGNALING REQUIREMENTS TO BE COORDINATED WITH CONSULTANT, FIRE ALARM MANUFACTURER, FIRE/BUILDING DEPARTMENT AND SCHOOLBOARD THROUGH SHOP DRAWING APPROVAL PROCESS.
- (N-3) ZONE DESIGNATIONS TO BE DETERMINED ON SITE.
- (N-4) 'SC' DENOTES SUPERVISORY CONTACT.
- (N-5) SCHEDULE REFLECTS EXISTING ZONES TO BE REMOVED AS PART OF THIS SCOPE OF WORK. UPDATE EXISTING BASE BUILDING FIRE ALARM SYSTEM CPU, TRANSPONDER, ANNUNCIATOR PANELS, PASSIVE GRAPHIC DISPLAY, ACTIVE GRAPHIC DISPLAY, ETC..



- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
 - (N-2) REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.
 - (N-3) CONDUIT/TIE WIRE AND OTHER ASSEMBLY MEANS TO SUPPORT DEVICE BACKBOX IS NOT ACCEPTABLE.
 - (N-4) ALL SURFACE / RECESSED MOUNTED DEVICES TO BE RECESSED MOUNTED FOR ALL INTERIOR PARTITIONS.
- ① CEILING MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE.
② SURFACE / RECESSED MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE.

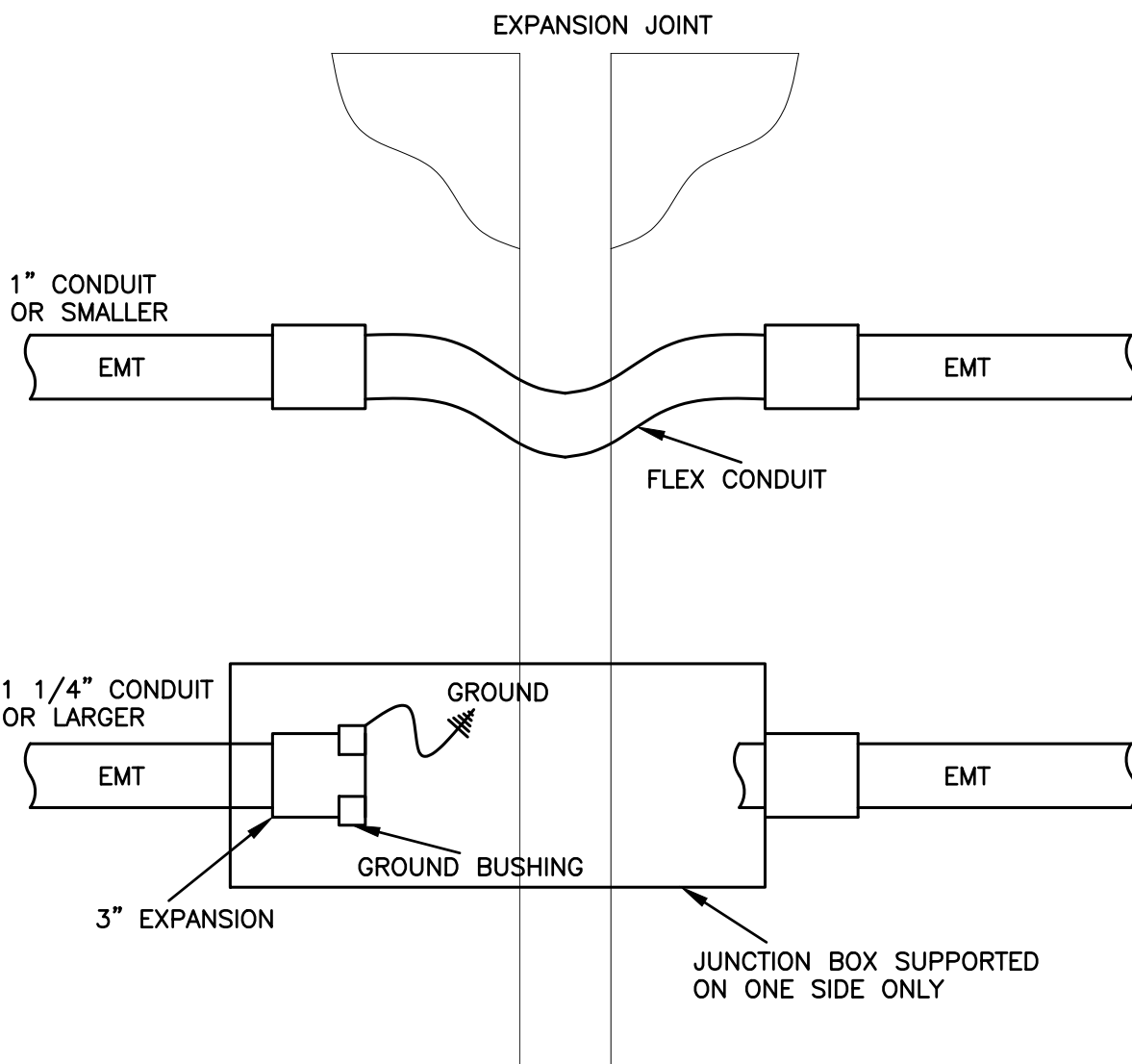
2 WALL/CEILING MOUNTED FIRE ALARM SYSTEM SIGNALLING DEVICE DETAIL
E-1.4 SCALE: NTS

1 PARTIAL FIRE ALARM SYSTEM ZONE SCHEDULE
E-1.4 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
 - (N-2) REFER TO FLOOR PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES.
 - (N-3) CONDUIT, TIE WIRE AND OTHER ASSEMBLY MEANS TO SUPPORT DEVICE BACKBOX IS NOT ACCEPTABLE.
- ① BACKBOX SUPPORTING SMOKE DETECTOR/HEAT DETECTOR
② CEILING TILE FRAME
③ CEILING TILE
④ BOX HANGER C/W BOX MOUNTING CLIP
⑤ T-BAR CLIP

3 TYPICAL SMOKE DETECTOR AND HEAT DETECTOR T-BAR CEILING SUPPORT DETAIL
E-1.4 SCALE: NTS



4 EXPANSION JOINT CROSSING DETAIL
E-1.4 SCALE: NTS

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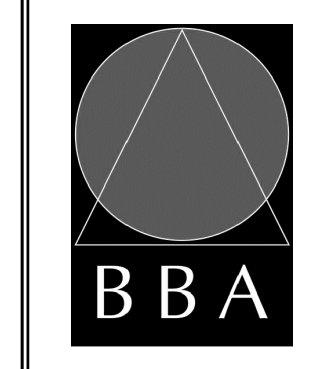


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

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PROJECT NO: **23029** DRAWING NO: **E-1.4**

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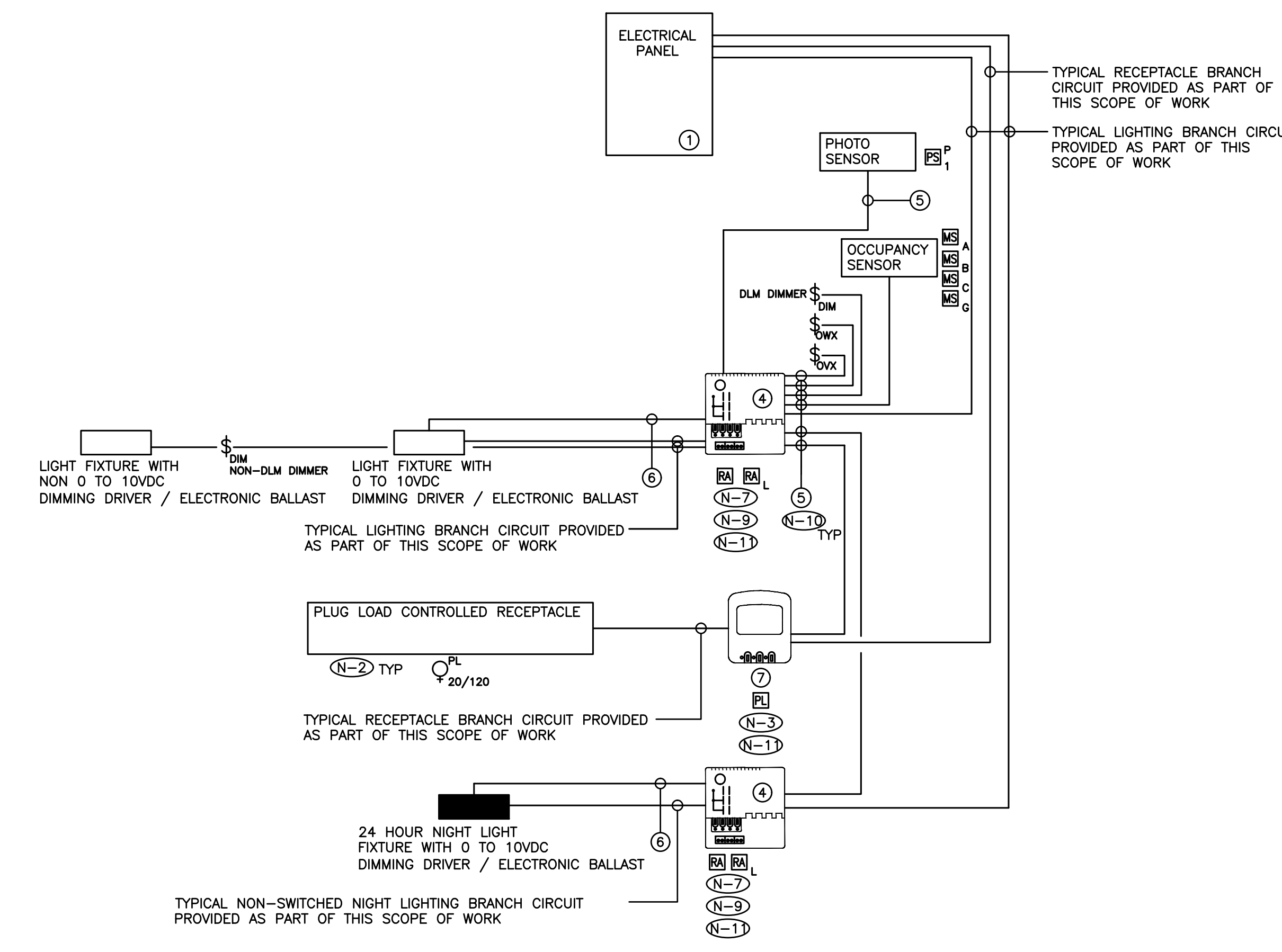
DRAWING:
ELECTRICAL DETAILS

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PROJECT NO: **23029**
DRAWING NO: **E-1.5**



- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND REFLECTED CEILING PLANS FOR DEVICE QUANTITY AND LOCATIONS. PROVIDE QUANTITY OF HARDWARE, ROOM CONTROLLERS, PLUG LOAD CONTROLLERS, SENSORS, DEVICES, CONDUIT, WIRE, CONFIGURATION TOOLS, ETC. TO ENSURE A FULLY OPERATIONAL LOW VOLTAGE LIGHTING CONTROL SYSTEM.
- (N-2) ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED TO VISUALLY DIFFERENTIATE THEM FROM UNCONTROLLED RECEPTACLES.
- (N-3) PLUG LOAD CONTROLLERS TO BE INSTALLED IN CEILING MOUNTED JUNCTION BOXES.
- (N-4) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
- (N-5) PROVIDE POWER, CONDUIT, BACKBOX AND WIRING IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. MINIMUM CONDUIT SIZE 3/4".
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) PROVIDE ROOM CONTROLLERS TO ACCOMMODATE ALL LIGHTING ZONES IN CLOSED ROOMS (IE. OFFICES, MEETING ROOMS, ETC.) PROVIDED AS PART OF THIS SCOPE OF WORK. MAXIMUM OF TWO (2) SWITCH LEGS PER ROOM CONTROLLER.
- (N-8) NOT USED.
- (N-9) ROOM CONTROLLERS TO BE INSTALLED IN CEILING MOUNTED JUNCTION BOXES.
- (N-10) TERMINATE AND TEST ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE TEST RESULTS FOR ALL LOW VOLTAGE CONTROL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK AT THE END OF CONSTRUCTION. TEST RESULTS SHALL BE INCLUDED AS PART OF THE CLOSE OUT DOCUMENTS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-11) REFER TO MANUFACTURER'S INSTALLATION GUIDELINES FOR ADDITIONAL INSTALLATION REQUIREMENTS OVER AND ABOVE THOSE DETAILS ON THIS SCHEMATIC.
- (N-12) NOT USED.
- (N-13) NOT USED.
- (N-14) PROVIDE POWER PACKS AS REQUIRED FOR A FULLY OPERATIONAL SYSTEM. POWER PACKS NOT SHOWN ON REFLECTED CEILING PLANS.
- (N-15) ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE EIGHT (8) HOURS OF ON SITE COORDINATION TIME WITH LIGHTING CONTROL SYSTEM MANUFACTURER PRIOR TO ORDERING LIGHTING SYSTEM COMPONENTS TO CONFIRM DEVICES AND WIRING REQUIREMENTS. ALL CHANGES TO BE REVIEWED AND APPROVED BY CONSULTANT ON SITE PRIOR TO EXECUTION.

(N-15) LIGHT LEVEL OUTPUT (IE, DIMMING LEVEL) FOR EACH AND EVERY FIXTURE PROVIDED AS PART OF THIS SCOPE OF WORK IN ROOMS/AREAS/CORRIDORS/ETC., WITH DLM CONTROL TO BE FIELD ADJUSTED ON SITE WITH CLIENT POST OCCUPANCY. TARGET LIGHT LEVELS FOR EACH LOW VOLTAGE LIGHTING ZONE TO BE PROVIDED BY THE CLIENT POST OCCUPANCY. PROCURE (COORDINATE AND PAY FOR) THE SERVICES OF WATTSTOPPER TO ADJUST, PROGRAM AND COMMISSION THE LIGHTING CONTROL SYSTEM.

AS PART OF THIS SCOPE OF WORK PROCURE THE SERVICES OF A THIRD PARTY PROFESSIONAL ENGINEER TO MEASURE AND RECORD LIGHTING LEVELS IN FOOT CANDLES THROUGHOUT THE ENTIRE SCOPE OF WORK AREAS WITH A CALIBRATED LIGHT METER, AFTER ALL FIELD ADJUSTMENTS HAVE BEEN COMPLETED. READINGS SHALL BE TAKEN BASED ON A MINIMUM OF ONE READING FOR EVERY 20' CENTER IN OPEN OFFICE AREAS AND CORRIDORS / HALLWAYS AND ONE READING IN EACH CLOSED OFFICE, MEETING ROOM, BOARDROOM, ETC. ALL LIGHT LEVEL READINGS ARE TO BE TAKEN DURING NON-DAYLIGHT HOURS. PROVIDE A SEALED REPORT IDENTIFYING LIGHT LEVEL READINGS.

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

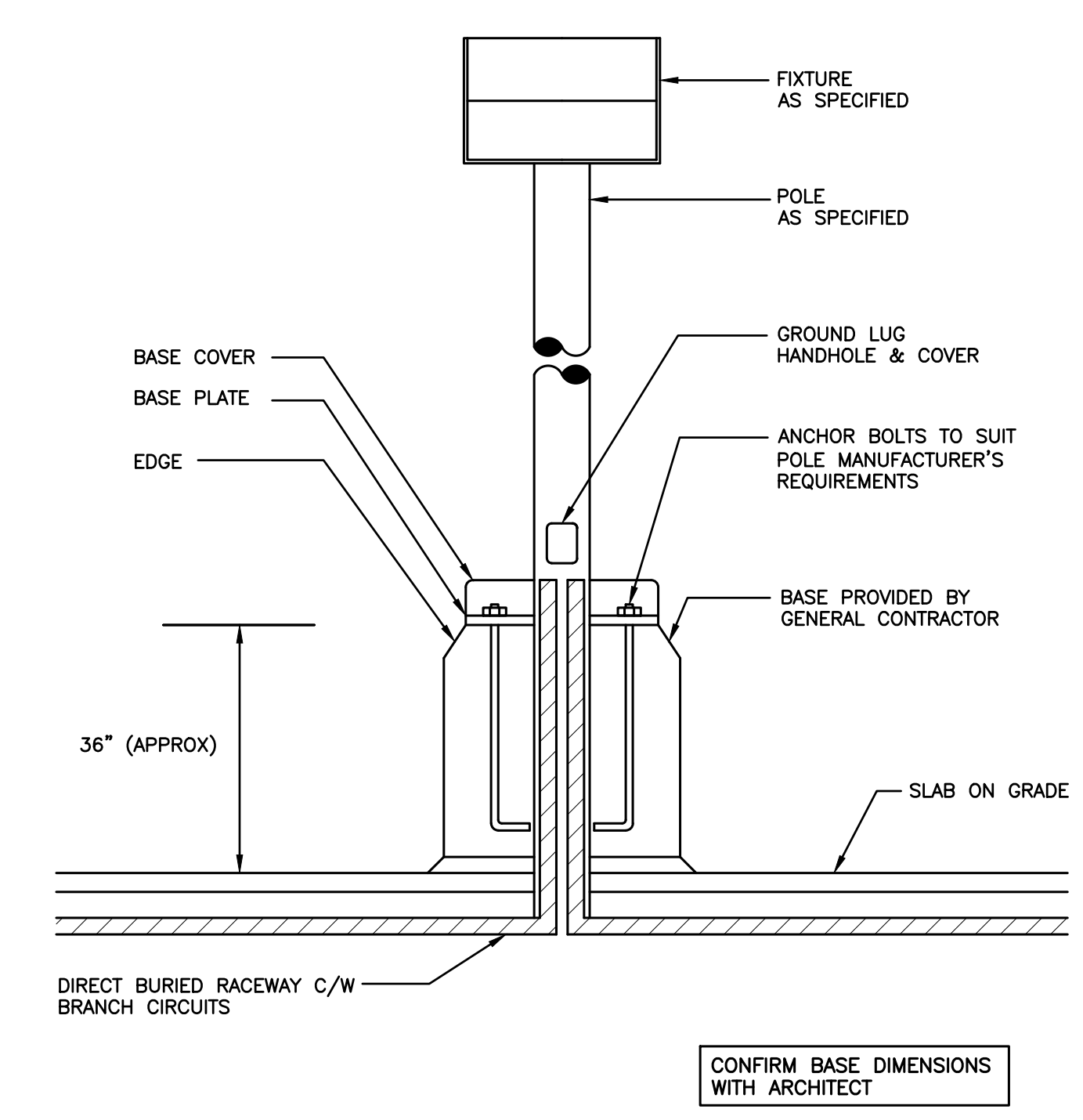
- (1) TYPICAL RECEPTACLE / LIGHTING PANEL. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS
- (2) NOT USED
- (3) NOT USED
- (4) ON / OFF / DIMMING ROOM CONTROLLER
- (5) PLENUM RATED 4 PAIR CAT6 UTP CABLE AS MANUFACTURED BY LIGHTING CONTROL SYSTEM MANUFACTURER
- (6) 0 TO 10VDC CONTROL WIRING PER MANUFACTURER'S RECOMMENDATIONS
- (7) PLUG LOAD CONTROLLER

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

1
E-1.5 LOW VOLTAGE LIGHTING CONTROL SYSTEM WIRING SCHEMATIC
SCALE: NTS

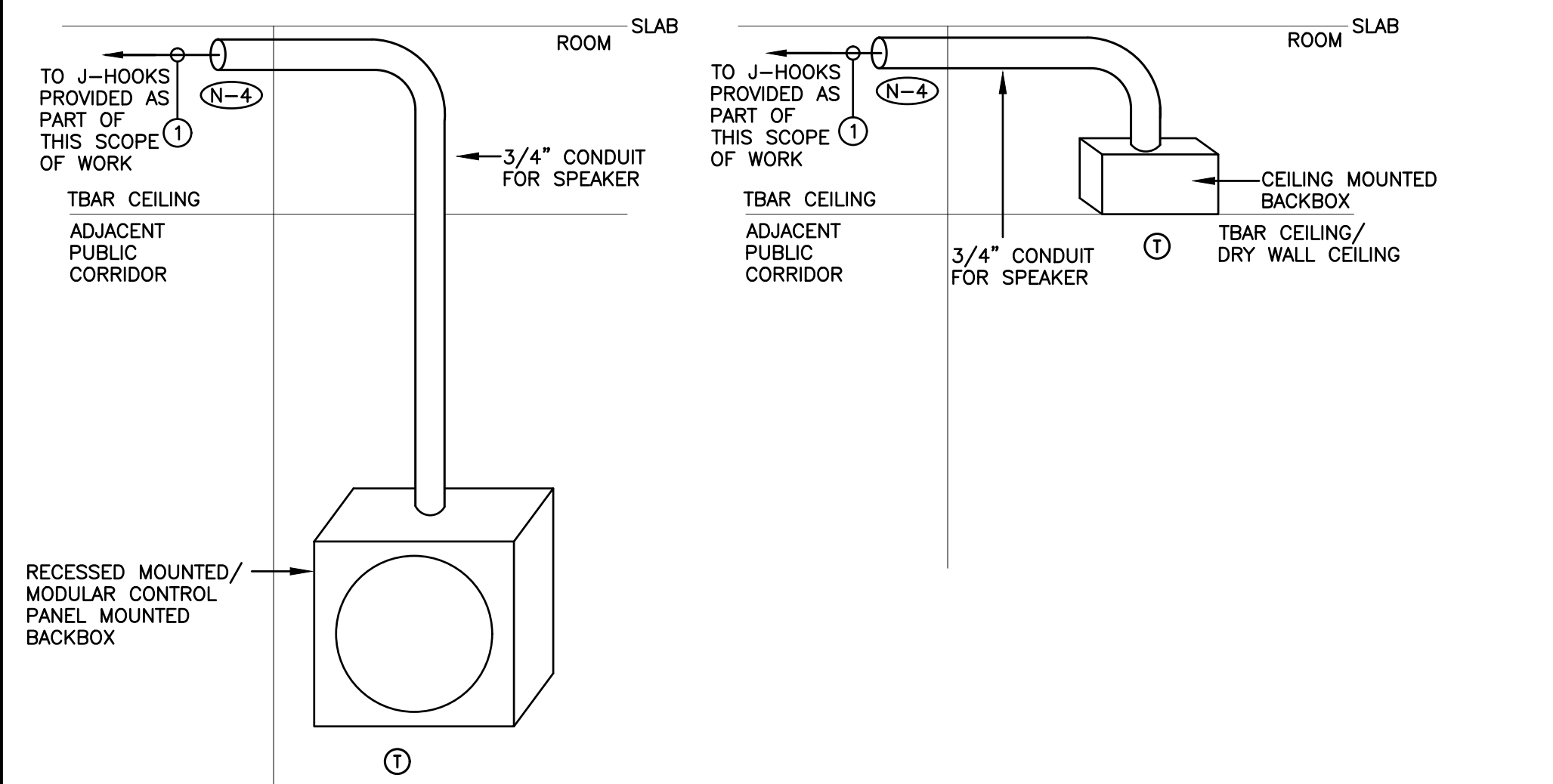
FITTURE SCHEDULE	
TYPE A1 - 3000 LUMEN 2' X 4' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 24EN-LD2-30-UNV-L840-CD1-U	TYPE LE12 - 2' DIAMETER ROUND SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, FROSTED LENS AND LAMPS
TYPE A2 - 3000 LUMEN 2' X 2' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 22EN-LD2-30-UNV-L840-CD1-U	TYPE LE13 - 4' LINEAR MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST AND LAMPS
TYPE A2A - 1900 LUMEN 2' X 2' RECESSED LED FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER AND LAMP (4000K/80% CRI). COOPER 22EN-LD2-19-UNV-L840-CD1-U	TYPE LE14 - SURFACE MOUNTED CANOPY LIGHT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, LENS AND LAMP.
TYPE A3 - 1900 LUMEN 4' SUSPENDED LED STRIP FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, 120V 0 TO 10VDC DIMMING DRIVER, WIDE FULL FROST LENS, WIRE GUARD AND LAMP (4000K, 80% CRI). COOPER LIGHTING 4SNX-20SL-LW-UNV-L840-CD1/WG-SNX/SN-4FT-B	TYPE P1 - 4637 LUMEN 34W SINGLE HEAD LIGHT STANDARD ON 36" HIGH CONCRETE BASE C/W 12" SQUARE TAPERED STEEL POLE DESIGNED FOR MAXIMUM WIND LOADS, TYPE IV DISTRIBUTION W/ SPILL CONTROL, 120V 0 TO 10V DIMMING DRIVER AND LED LAMPS (4000K, 70% CRI). COOPER LIGHTING GALEON SERIES GLEON-SA1A-740-U-SL4-WH-MS/DIM-L20 LS/HSS C/W ALUMINOUS LIGHTING SYSTEMS POLE STS-6540-12-AB-1DR-PC-BC C/W BASE COVER. POLE FINISH TO BE DETERMINED DURING SHOP DRAWING PROCESS.
TYPE B1 - 1000 LUMEN 4" LED RECESSED ROUND DOWNLIGHT SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND WIDE BEAM LAMP (4000K 90%CRI). COOPER LIGHTING PORTFOLIO LD4C10D010-EU4C10209040-4LBW1H	TYPE W1 - 25W OUTDOOR WALL MOUNTED LED GASKETED FOR WEATHER PROOFING FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, TYPE III DISTRIBUTION, 120V DRIVER AND LED LAMPS (4000K/70%CRI). COOPER ISC IMPACT ELITE IST-SA1B-740-U-T3 C/W MOUNTING BRACKET.
TYPE C1 - 4000 LUMEN CANOPY MOUNTED LED DOWNLIGHT SUITABLE FOR OUTDOOR INSTALLATION C/W IN LINE POWER DISCONNECT, 120V 0 TO 10VDC DIMMING DRIVER AND WIDE BEAM LAMP (4000K 70%CRI). COOPER LIGHTING TT-D1-740-U-WQ-NW	TYPE W2 - 35W OUTDOOR WALL MOUNTED LED GASKETED FOR WEATHER PROOFING FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, TYPE III DISTRIBUTION, 120V DRIVER AND LED LAMPS (4000K/70%CRI). COOPER ISC IMPACT ELITE IST-SA1C-740-U-T3 C/W MOUNTING BRACKET.
TYPE LE1 - 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND LAMPS	TYPE W3 - 35W OUTDOOR WALL MOUNTED LED GASKETED FOR WEATHER PROOFING FIXTURE C/W IN LINE POWER DISCONNECT, POWER SUPPLY, TYPE IV FORWARD THROW DISTRIBUTION, 120V DRIVER AND LED LAMPS (4000K/70%CRI). COOPER ISC IMPACT ELITE IST-SA1C-740-U-T4FT C/W MOUNTING BRACKET.
TYPE LE2 - 6" X 4' RECESSED MOUNTED FLUORESCENT FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND LAMPS	TYPE D1 - EMERGENCY LIGHTING SYSTEM C/W 10 YEAR 24VOLT/720W/0.5 HOUR/BATTERY UNIT/120/347 VOLT INPUT ONTO TERMINAL BLOCK/LUMACELL RGS24S720-TMBK OR STANPRO SLD SERIES SLD-24-720-00-X-WH-ACTB/WHITE IN COLOUR.
TYPE LE3 - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE SUITABLE FOR LAY-IN CEILING C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND LAMPS	TYPE D2 - 2 X 4W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEADS, WHITE IN COLOUR.
TYPE LE3D - 1' X 4' RECESSED MOUNTED FLUORESCENT FIXTURE SUITABLE FOR DRYWALL CEILING C/W IN LINE POWER DISCONNECT, 120V BALLAST, ACRYLIC LENS AND LAMPS	TYPE D3 - 1 X 4W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEAD, WHITE IN COLOUR.
TYPE LE4 - 4' SURFACE MOUNTED LINEAR DIRECT/INDIRECT FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, LENS AND LAMPS	TYPE D4 - 2 X 6W MR16 LED 24V LUMACELL SIGNATURE COLLECTION OR STANPRO M SERIES REMOTE HEADS, WHITE IN COLOUR.
TYPE LE5 - 4' SUSPENDED LINEAR DIRECT/INDIRECT FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, SLOTTED LENS AND LAMPS	TYPE D7 - 1 X REMOTE DC HEAD
TYPE LE6 - 4' SURFACE MOUNTED LINEAR FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, FROSTED LENS AND LAMP	TYPE D8 - 2 X REMOTE DC HEADS
TYPE LE7 - 6" SQUARE SURFACE MOUNTED COMPACT FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, FROSTED LENS AND LAMP	TYPE D10 - EMERGENCY LIGHTING SYSTEM BATTERY UNIT C/W 2 X REMOTE DC HEADS.
TYPE LE8 - OUTDOOR WALL MOUNTED FIXTURE GASKETED FOR WEATHER PROOFING C/W LAMPS	TYPE E1 - PICTOGRAM WHITE LED EXIT SIGN C/W LUMACELL E22 CANOPY. LUMACELL LA-3 SERIES OR STANPRO RMXL PICTOGRAM EXTRUDED ALUMINUM EXIT SIGN C/W 120/347VAC/24VDC LED.
TYPE LE9 - 1' X 4' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, FROSTED LENS AND LAMPS	TYPE E2 - PICTOGRAM WHITE LED EDGELIT EXIT SIGN
TYPE LE10 - 1' X 1' SURFACE MOUNTED INCANDESCENT FIXTURE C/W IN LINE POWER DISCONNECT, LENS AND LAMPS	
TYPE LE11 - 2' X 2' SURFACE MOUNTED FLUORESCENT FIXTURE C/W IN LINE POWER DISCONNECT, 120V BALLAST, FROSTED LENS AND LAMPS	

2
E-1.5 FITTURE SCHEDULE
SCALE: NTS



- (N-1) PROVIDE WATERPROOF TERMINATIONS.
- (N-2) CONDUIT SYSTEM TO BE C/W PULLROPE.
- (N-3) ROUGH-IN DETAILS ARE DIAGRAMMATIC. REFER TO DRAWING NO. E-8.1 FOR ADDITIONAL REQUIREMENTS, DEVICE QUANTITY AND LOCATION.

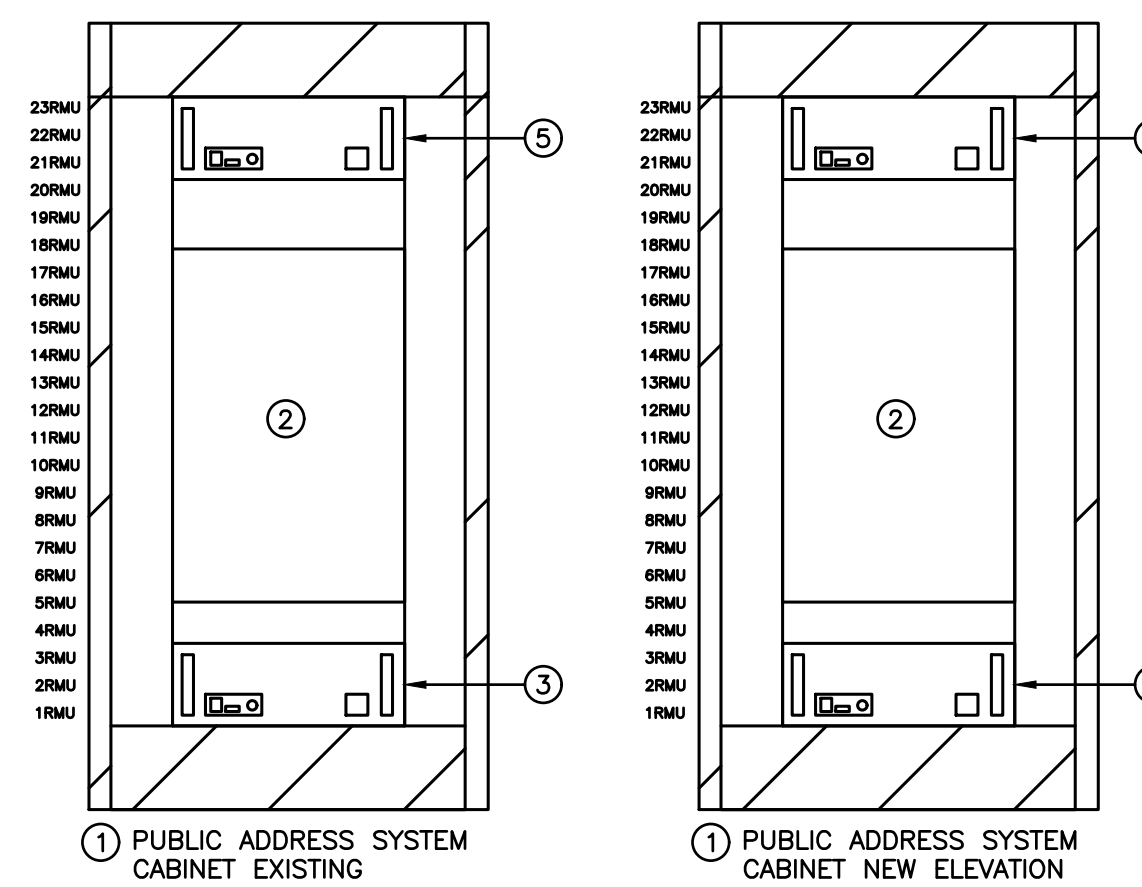
3
E-1.5 POLE MOUNTED LIGHT STANDARD DETAIL
SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATIONS OF DEVICES AND FOR ADDITIONAL ACCESSORIES AND REQUIREMENTS.
- (N-2) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- (N-3) CONDUITS ARE TO BE SUPPORTED BY THE CEILING STRUCTURE ABOVE.
- (N-4) EXTEND ALL PUBLIC ADDRESS ZONE CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK TO ABOVE T-BAR CEILING OUTSIDE OF RESPECTIVE ROOMS.
- (N-5) ALL CONDUITS PROVIDED BY ELECTRICAL CONTRACTOR SHALL BE C/W BUSHINGS AND RUBBERIZED GROMMETS. ALL CONDUITS TO BE EMT. EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SET SCREW TYPE.

1 SPEAKER CABLE PROVIDED AS PART OF THIS SCOPE OF WORK

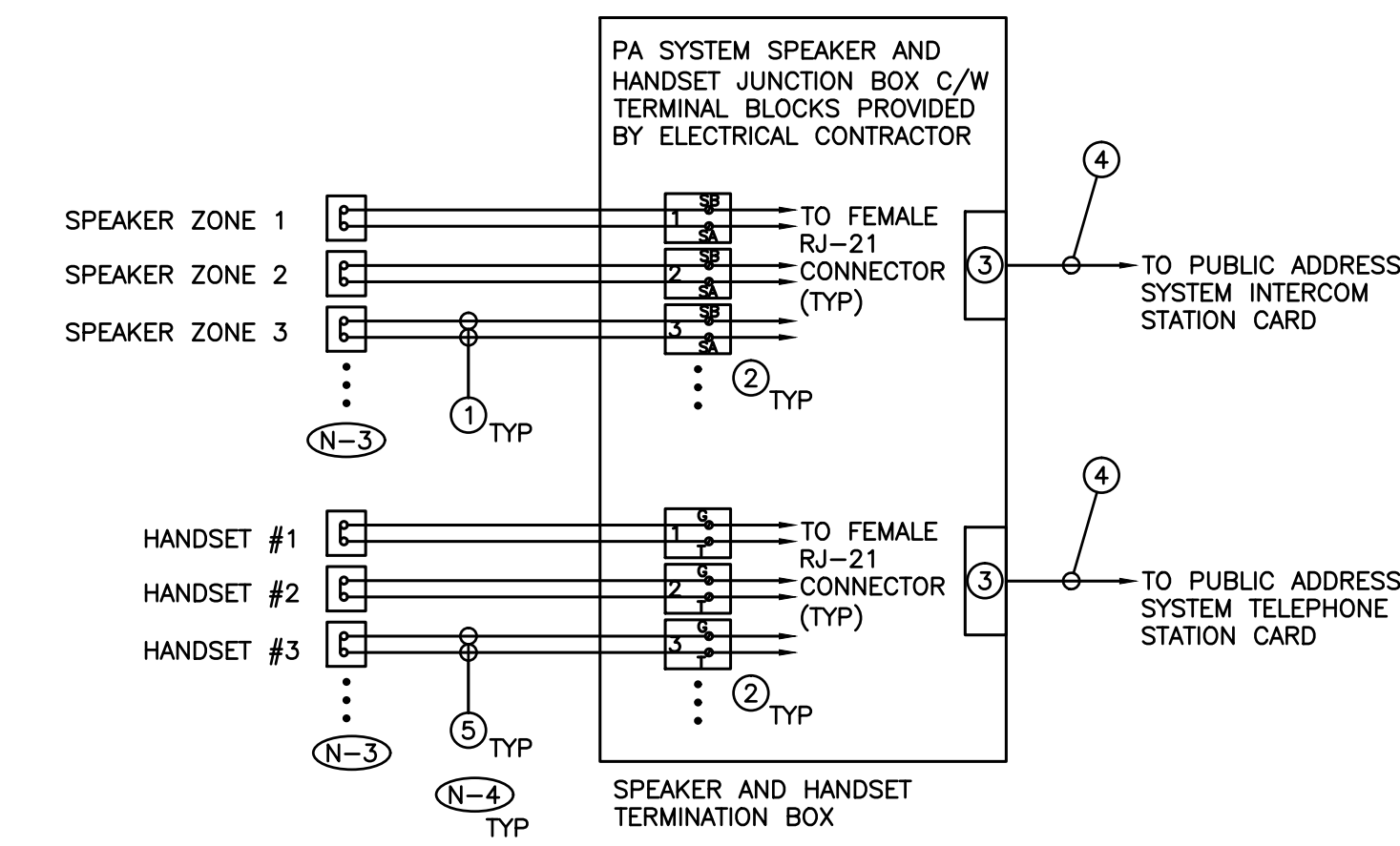
1 TYPICAL PAGING SPEAKER CONDUIT INSTALLATION DETAIL
E-1.6 SCALE: NTS



- (N-1) REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.

- 1 EXISTING FREE STANDING PUBLIC ADDRESS SYSTEM CABINET
- 2 EXISTING PUBLIC ADDRESS SYSTEM CONTROL UNIT COMPONENTS.
- 3 EXISTING PUBLIC ADDRESS SYSTEM 125W AMPLIFIER TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- 4 PUBLIC ADDRESS SYSTEM 250W AMPLIFIER PROVIDED AS PART OF THIS SCOPE OF WORK.
- 5 EXISTING PUBLIC ADDRESS SYSTEM POWER SUPPLY TO REMAIN.

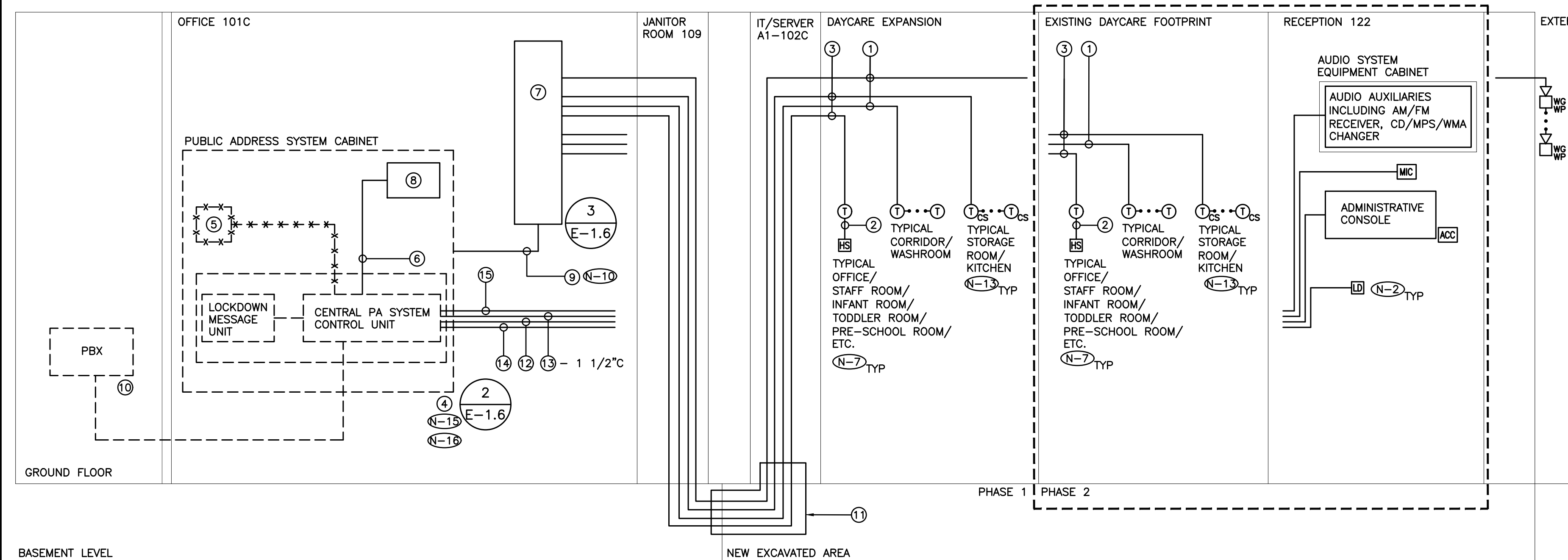
2 PUBLIC ADDRESS SYSTEM CABINET ELEVATION
E-1.6 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY.
- (N-2) PROVIDE ENCLOSURE, WIRING, TERMINAL BLOCKS, ACCESSORY CABLES, RJ21 CABLES, ETC. REQUIRED TO INTERCONNECT ALL PAGING SPEAKER ZONES AND ALL HANDSETS TO THE PUBLIC ADDRESS SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-3) REFER TO DRAWING NO. E-1.5 AND TO SYSTEMS (FLOOR) PLANS FOR QUANTITY AND LOCATION OF PAGING SPEAKER ZONES AND ADDITIONAL REQUIREMENTS.
- (N-4) CONNECT BL/BLWH CABLE PAIR TO THE TERMINAL BLOCK.
- (N-5) REFER TO RISER DIAGRAM FOR WIRING SPECIFICATIONS AND REQUIREMENTS.

- 1 SPEAKER WIRE
- 2 TERMINAL BLOCK
- 3 CONNECTORS
- 4 MULTI PAIR CONDUCTORS
- 5 HANDSET WIRE

3 PUBLIC ADDRESS SYSTEM SPEAKER AND INTERCOM HANDSET WIRING DETAIL
E-1.6 SCALE: NTS



- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HARDWARE, DEVICES, ACCESSORIES, POWER CIRCUITS, CONDUITS, WIRES, DATA CIRCUITS, SPEAKER CIRCUITS, ETC. TO ENSURE A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM.
- (N-2) REFER TO SYSTEMS (FLOOR) PLANS FOR EXACT QUANTITY AND LOCATION OF DEVICES, DEVICE PERIPHERALS AND ACCESSORIES, INCLUDING WIREGUARDS.
- (N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRE REQUIREMENTS AS DETAILED ON RISER.
- (N-4) A SINGLE SPEAKER CIRCUIT (E. RUN OF WIRING) SHALL NOT EXCEED FIVE (5) SPEAKERS OR A TOTAL POWER/LOAD OF 30W.
- (N-5) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- (N-6) PROVIDE LIGHTNING ARRESTORS FOR ALL EXTERIOR WIRING.
- (N-7) EACH AND EVERY CLASSROOM AND EACH AND EVERY OFFICE TO BE WIRED AS A DEDICATED PAGING ZONE.
- (N-8) SUPPLY CADDY HANGERS, THREADED ROD EXTENSIONS, CABLE SUPPORTS, TIE-WRAPS AND ANY OTHER MISCELLANEOUS HARDWARE REQUIRED TO SUPPORT LOW VOLTAGE CABLING IN LAY-IN CEILING AREAS WHERE CONDUIT HAS NOT BEEN PROVIDED. ANCHORS FOR CADDY HANGERS MUST NOT BE DRILLED INTO POST TENSIONED BEAMS UNDER ANY CIRCUMSTANCES. BRIDAL RING CADDY FASTENERS AND OTHER ALTERNATES TO 'J-HOOKS' OR THEIR EQUIVALENT MAY NOT BE USED TO SUPPORT THE HORIZONTAL CABLING. DO NOT SUPPORT CABLES TO T-BAR CEILING HANGERS OR HAVE ANY CABLES LAYING ON CEILING TILES.
- (N-9) CABLING FOR SPEAKERS (PAGING ZONES) SHALL BE BUNDLED SEPARATELY FROM OTHER SYSTEMS TO AVOID ELECTRICAL NOISE. CABLING FOR SPEAKERS MUST BE AT LEAST 1 FOOT FROM OTHER SYSTEMS' CABLING.
- (N-10) PROVIDE QUANTITY OF MULTI-CONDUCTOR CABLES (PAIRS) AS REQUIRED FOR A FULLY FUNCTIONAL AND OPERATIONAL PUBLIC ADDRESS SYSTEM PLUS 30% SPARE CAPACITY.
- (N-11) NOT USED.
- (N-12) ROUTE AND OFFSET SYSTEMS CABLING, ETC. PROVIDED AS PART OF THIS SCOPE OF WORK AROUND EXISTING DISTRIBUTION, JUNCTION BOXES, PULL BOXES, ETC. IN RISER ROOMS TO ACCOMMODATE INSTALLATION.
- (N-13) EACH STORAGE ROOM, WORK ROOM, HEALTH ROOM, ETC TO BE WIRED AS A DEDICATED PAGING ZONE.
- (N-14) PROVIDE REQUIRED PENETRATIONS THROUGH BUILDING ENVELOPE. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-15) PROVIDE QUANTITY OF AMPLIFIERS, HARDWARE, SOFTWARE, POWER SUPPLIES, ETC. AS REQUIRED TO ENSURE A FULLY FUNCTIONAL PUBLIC ADDRESS SYSTEM.
- (N-16) AS PART OF THIS SCOPE OF WORK, PROGRAM DAYCARE AS A NEW ZONE SEPARATED FROM THE EXISTING SCHOOL PAGING ZONES. PROVIDE ALL REQUIRED SOFTWARE, HARDWARE, ACCESSORIES, ETC. FOR A FULLY OPERATIONAL PUBLIC ADDRESS SYSTEM. UPDATE LABELS AND SETTINGS ON ALL EXISTING ADMINISTRATION CONTROL CONSOLES. LOCATION OF EXISTING ADMINISTRATION CONTROL CONSOLE NOT SHOWN ON DRAWINGS.

- 1 SPEAKER WIRE
ONE PAIR PLENUM RATED - WIRE SIZE PER ATTACHED SCHEDULE
- 2 HANDSET WIRE
- 3 SPEAKER WIRE 4 PAIR PLENUM RATED CAT5E UTP CABLE - BELDEN #1213 (COLOUR TO BE DETERMINED DURING SHOP DRAWING PROCESS)
- 4 EXISTING PUBLIC ADDRESS SYSTEM HEAD END UNIT TO REMAIN - TELECOR XL
- 5 EXISTING PUBLIC ADDRESS SYSTEM 125W AMPLIFIER TO BE REMOVED AS PART OF THIS SCOPE OF WORK
- 6 AUDIO AMPLIFIER CABLE
#18/2 AWG - BELDEN #6300UE
#24/2 AWG SHIELDED CABLE - BELDEN #1801B
- 7 TERMINATION BOX FOR SPEAKER ZONES AND HANDSETS
- 8 PUBLIC ADDRESS SYSTEM 250W AMPLIFIER PROVIDED AS PART OF THIS SCOPE OF WORK
- 9 MULTI-CONDUCTOR CABLES - PLENUM RATED
- 10 EXISTING PUBLIC ADDRESS SYSTEM PBX EQUIPMENT TO BE REMOVED AS PART OF THIS SCOPE OF WORK
- 11 DIRECT BURIED 2" CONDUIT PROVIDED AS PART OF THIS SCOPE OF WORK.
- 12 ADMINISTRATIVE CONSOLE CABLE (PLENUM RATED WIRING PER MANUFACTURER'S RECOMMENDATIONS)
- 13 MICROPHONE CABLE
#22/2 AWG SHIELDED CABLE - BELDEN #8451
- 14 LOCK DOWN BUTTON CABLE (PLENUM RATED WIRING PER MANUFACTURER'S RECOMMENDATIONS)
- 15 SHIELDED GAUGE PLENUM RATED WIRES FOR TAPE/CD PLAYER/RADIO TUNER/ETC

SPEAKER CABLE CHART

AWG Wire Size	Resistance (Ω/100ft)	Maximum Distance for a 0.5 dB Cable Loss (feet)									
		1815	908	454	227	---	---	---	---	---	---
26	0.0408	1815	908	454	227	---	---	---	---	---	---
24	0.0257	2882	1441	721	360	180	---	---	---	---	---
22	0.0161	4600	2300	1150	575	287	115	---	---	---	---
20	0.0102	7021	3530	1815	908	453	181	90	---	---	---
18	0.00639	11591	6799	2898	1449	724	289	144	---	---	---
16	0.00402	18425	9212	4606	2303	1151	460	230	---	---	---
14	0.00253	29275	14637	7318	3659	1829	732	366	---	---	---
12	0.00159	45583	22791	11395	5697	2849	1139	569	---	---	---
10	0.000999	74141	37070	18535	9267	4633	1853	926	---	---	---
8	0.000628	117541	58770	29385	14742	7371	2948	1474	---	---	---
6	0.000395	187512	93756	46877	23438	11719	4687	2343	---	---	---
Speaker Transformer Tap		0.25 W	0.5 W	1 W	2 W	4 W	10 W	20 W			

BASE BUILDING PA SYSTEM CONTRACTOR
BARRIE COMMUNICATIONS EQUIPMENT LIMITED
ALFRED SPEDALE
905-564-7026 EX 503
ALFREDO@BARRIECOM.CA

TUNER/CD PLAYER/MEDIA PLAYER
PROVIDE A MEDIA PLAYER COMPLETE WITH:
CD PLAYER
AM/FM TUNER
USB AND SD CARD INPUTS
BLUETOOTH CONNECTIVITY
3.5MM AUDIO INPUT
ACCEPTABLE MANUFACTURER SHALL BE DENON DN-3002B.

DESKTOP MICROPHONE
THE DESKTOP MICROPHONE SHALL BE COMPLETE WITH THE FOLLOWING FEATURES:
TAILORED FREQUENCY RESPONSE FOR INTELLIGIBLE VOICE REPRODUCTION.
OMNIDIRECTIONAL DYNAMIC.
FREQUENCY RESPONSE OF 150 TO 6000 HZ.
LOCKING PUSH-TO-TALK SWITCH.
COMBINATION OF BLACK AND STAINLESS STEEL FINISH.
ACCEPTABLE MANUFACTURER SHALL BE SHURE CAT. #450 SERIES 2 OR EQUIVALENT BY TOA.

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

4 PUBLIC ADDRESS SYSTEM RISER DIAGRAM
E-1.6 SCALE: NTS

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DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED
AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1	ISSUED FOR 80% REVIEW	MAR 06/23	KZ
2	ISSUED FOR PERMIT	MAY 30/24	KZ
3	ISSUED FOR TENDER	JUN 21/24	KZ
4	ISSUED FOR REVIEW	SEP 04/24	KZ
5	ISSUED FOR TENDER	OCT 01/24	KZ

HCC ENGINEERING
DESIGN AND TECHNOLOGY SERVICES GROUP
HCC ENGINEERING LIMITED
40 EGLINTON AVENUE EAST, SUITE 600
TORONTO, ONTARIO, M1P 3A2
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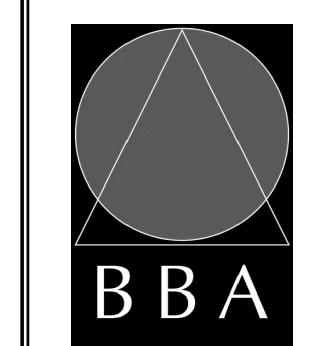


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
ELECTRICAL DETAILS

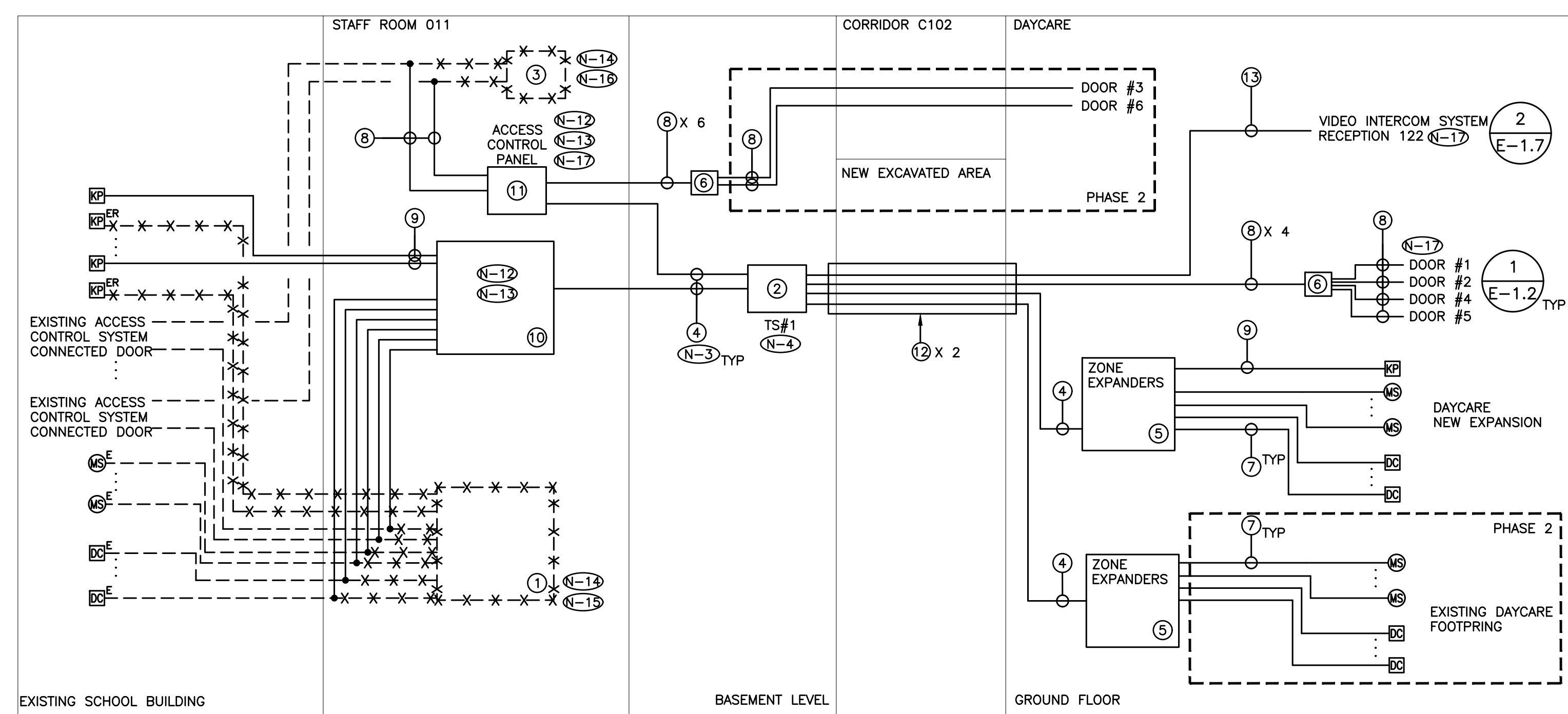


BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

DESIGN BY: KZ
DRAWN BY: KZ
CHECKED BY: PC
DATE: FEB 2023
SCALE: AS SHOWN
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email: bob@bba-aweg.com

PROJECT NO: **23029**
DRAWING NO: **E-1.6**



- (N-1) RISER IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF CONTROL PANELS, ZONE EXPANDERS, HARDWARE, DEVICES, POWER CIRCUITS, CONDUIT, WIRE, SECURITY CABLES, ETC., TO ENSURE A FULLY OPERATIONAL SECURITY INTRUSION AND ACCESS CONTROL SYSTEM. MINIMUM REQUIREMENTS DETAILED ON DRAWING.
- (N-2) REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-3) PROVIDE CONDUITS AND WIRES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. MINIMUM CONDUIT SIZE AND WIRING REQUIREMENTS AS DETAILED ON RISER DIAGRAM.
- (N-4) ALL SECURITY SYSTEM BUS DEVICES TO BE PULLED AS HOMERUNS TO SECURITY SYSTEM JUNCTION BOX. DO NOT DAISY CHAIN SECURITY SYSTEM INTRUSION BUS (COMBUS) BETWEEN DEVICES. TERMINATE ALL WIRING ONTO TERMINAL STRIPS AND LOOP WIRING AS REQUIRED AT JUNCTION BOX.
- (N-5) ALL CONDUITS TO BE EMT. EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL, SET SCREW TYPE. PROVIDE SPARE PULLSTRING IN ALL CONDUITS FOR FUTURE USE.
- (N-6) ELECTRICAL CONTRACTOR SHALL NOT USE PULLBOXES AS SUBSTITUTES FOR 90° BENDS. 12" X 12" X 6" PULLBOXES C/W TYPE SNAKE EYE SECURITY SCREWS SHALL BE PROVIDED ON THE BASIS OF NOT MORE THAN TWO (2) RIGHT ANGLE BENDS OR NOT MORE THAN 100' IN STRAIGHT RUNS BETWEEN BOXES.
- (N-7) CONTACT SECURITY MANUFACTURER FOR ADDITIONAL WIRE, CONDUIT, PULLBOX AND POWER REQUIREMENTS.
- (N-8) ALL CONTROL PANEL COVERS TO BE EQUIPPED WITH TAMPER SWITCHES.
- (N-9) EACH FIELD DEVICE SHALL BE PROGRAMMED AS AN INDIVIDUAL HARDWIRED ZONE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-10) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL CABINETS AND ENCLOSURES PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH WHITE FIRE RETARDANT PAINT. FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-11) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY TCDSB AND STRUCTURAL ENGINEER PRIOR TO CORE DRILLING.
- (N-12) PROVIDE ALL REQUIRED HARDWARE, SOFTWARE, PROGRAMMING, ACCESSORIES, ETC. REQUIRED TO INTEGRATE THE ACCESS CONTROL SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK WITH THE SECURITY SYSTEM INTRUSION CONTROL PANEL.
- (N-13) PROVIDE INTERFACE DEVICES, SOFTWARE, HARDWARE, LICENSES, PROGRAMS, ETC. TO INTEGRATE ACCESS CONTROL PANEL WITH VIDEO INTERCOM SYSTEM PROVIDED AS PART OF SCOPE OF WORK. REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.7 FOR ADDITIONAL REQUIREMENTS.
- (N-14) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR SHALL DISPOSE OF ALL EXISTING BATTERIES IN COMPLIANCE WITH MINISTRY STANDARDS. ELECTRICAL CONTRACTOR SHALL PROVIDE A LETTER STATING THAT BATTERIES WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. PROVIDE WAYBILLS.
- (N-15) CUTOVER (TRANSFER) ALL EXISTING SECURITY AND INTRUSION DEVICES / CIRCUITS / ZONES FROM THE EXISTING SECURITY SYSTEM INTRUSION CONTROL PANEL TO BE REPLACED AS PART OF THIS SCOPE OF WORK TO THE NEW SECURITY SYSTEM INTRUSION CONTROL PANEL PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-16) CUTOVER (TRANSFER) ALL EXISTING ACCESS CONTROL SYSTEM DEVICES / CIRCUITS / ZONES FROM THE EXISTING ACCESS CONTROL SYSTEM CONTROL PANEL TO BE REPLACED AS PART OF THIS SCOPE OF WORK TO THE NEW ACCESS CONTROL SYSTEM CONTROL PANEL PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-17) AS PART OF THIS SCOPE OF WORK PROVIDE AN INTERFACE DEVICE BETWEEN ACCESS CONTROL SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK AND VIDEO INTERCOM SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE THE FOLLOWING REQUIREMENTS:
 - VIDEO INTERCOM MASTER STATION IN RECEPTION 122 AND VIDEO INTERCOM SUB-MASTER STATION IN OFFICE 122A AND OFFICE 122B CAN RELEASE DOOR #3 AND DOOR #6 SEPARATELY.
 - VIDEO INTERCOM SUB-MASTER STATION IN INFANT ROOM A1-111, TODDLER ROOM A1-107 AND PRE-SCHOOL A1-103 CAN RELEASE DOOR #1, DOOR #2, DOOR #3, AND DOOR #4 UPON THE RELEASE OF DOOR #1, DOOR #4 SHALL ALSO BE RELEASED WITH A 60 SECOND TIMEOUT.
 - VIDEO INTERCOM SUB-MASTER STATION IN EARLY-ON A1-102 CAN RELEASE DOOR #1 AND DOOR #5 UPON THE RELEASE OF DOOR #1, DOOR #5 SHALL ALSO BE RELEASED WITH A 60 SECOND TIMEOUT.

- 1 EXISTING SECURITY SYSTEM INTRUSION CONTROL PANEL TO BE REMOVED AS PART OF THIS SCOPE OF WORK - CHUBB GUARDALL
- 2 18"W X 18"H X 10"D SECURITY SYSTEM JUNCTION BOX
- 3 EXISTING ACCESS CONTROL SYSTEM CONTROL PANEL TO BE REMOVED AS PART OF THIS SCOPE OF WORK
- 4 SECURITY SYSTEM COMMUNICATION BUS (WIRING PER MANUFACTURER'S RECOMMENDATION) - 3/4"Ø
- 5 SECURITY SYSTEM INTRUSION CONTROL PANEL ZONE EXPANDER C/W ENCLOSURE
- 6 12"W X 12"L X 6"D CEILING MOUNTED ACCESS CONTROL SYSTEM PULL BOX
- 7 2 PAIR #22AWG, PLENUM RATED, -3/4"Ø
- 8 ACCESS CONTROL SYSTEM WIRING PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF ACCESS CONTROL DEVICES.
 - BELDEN 658GFS BANANA PEEL NO OVERALL JACKET COMPOSITE - LOCK POWER, CARD READER, DOOR CONTACT, REX APPLICATIONS
- 9 TYPICAL ACCESS CONTROL SYSTEM DEVICE WIRING
 - DOOR CONTACT - 2 PAIR #22AWG
 - MOTION DETECTOR - 1 X 3 PAIR #22AWG SHIELDED
 - ELECTRIC STRIKE - 2 PAIR #18AWG
 - AUDIBLE ALARM - 1 PAIR #22AWG
 - CARD / PROXIMITY READER - 3 PAIR SHIELDED #22AWG (OVERALL SHIELD)
 - DOOR OPERATOR INTERFACE DEVICE - 3 PAIR SHIELDED #22AWG (OVERALL SHIELD)
- 10 CAT 6 UTP CABLE FOR SECURITY SYSTEM INTRUSION CONTROL PANEL KEYPAD
 - 2 X DIN RAIL ENCLOSURE - EN-DIN-24
 - 1 X DIN RAIL GX SYSTEM CONTROLLER - PRT-CTRL-GX-DIN
 - 3 X DIN RAIL 2 READER EXPANDER - PRT-RDM2-DIN-485
 - 1 X DIN RAIL 4A INTELLIGENT POWER SUPPLY - PRT-PSU-DIN-4A
 - 2 X DIN RAIL 16 ZONE INPUT EXPANDER - PRT-ZX16-DIN
 - 1 X DIN RAIL 8 INPUT EXPANDER - PRT-ZX8-DIN
 - 1 X POWER CABLE RIGHT ANGLE PLUG CABLE-PWR-NA
- 11 ACCESS CONTROL SYSTEM CONTROL PANEL PROVIDED AS PART OF THIS SCOPE OF WORK
- 12 DIRECT BURIED 4" CONDUIT PROVIDED AS PART OF THIS SCOPE OF WORK.
- 13 MULTI-CONDUCTOR CABLE PER MANUFACTURER'S RECOMMENDATIONS

ELECTRICAL CONTRACTOR MUST PROCURE THE SERVICES OF CHUBB TO PROVIDE REMOTE ALARM MONITORING

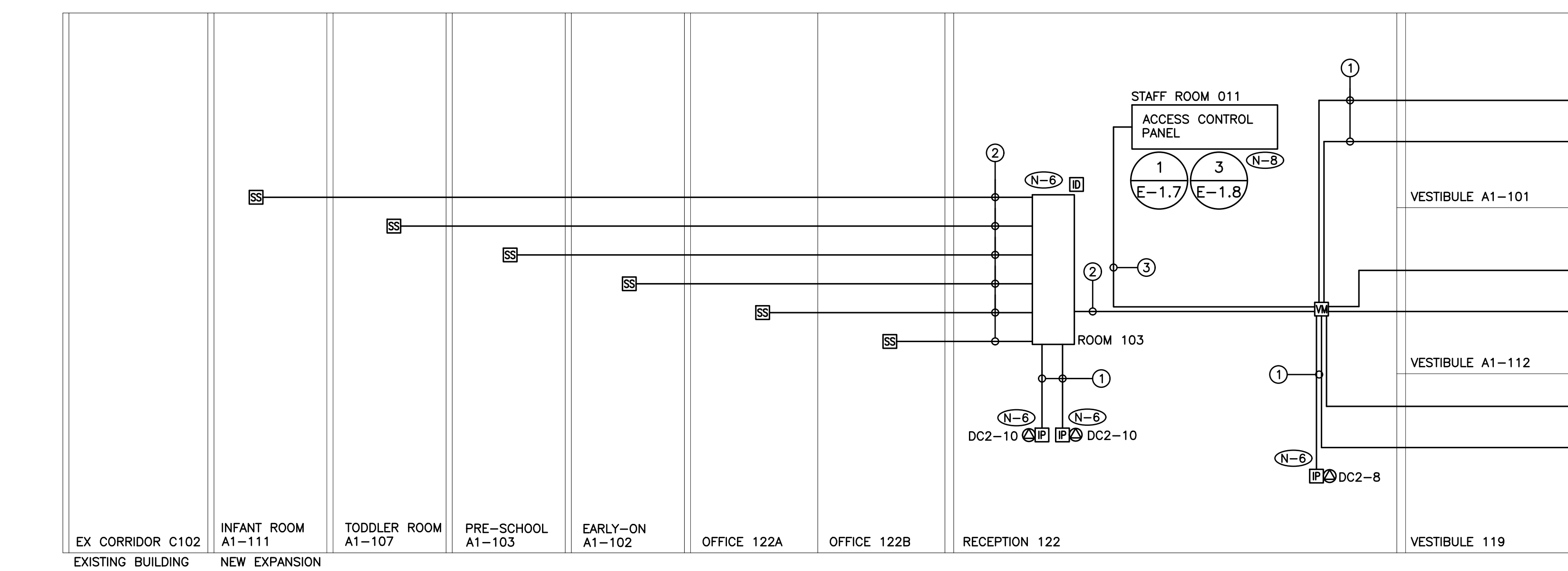
ELECTRICAL CONTRACTOR OR ITS SUBTRADEES MUST BE CERTIFIED TO WORK ON ICT PRODUCTS.

— DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR

--- DENOTES EXISTING TO REMAIN

-X-X-X-X- DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

1 SECURITY INTRUSION AND ACCESS CONTROL SYSTEM RISER DIAGRAM
SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO DRAWING NO. E-2.1 FOR ADDITIONAL REQUIREMENTS, DEVICE QUANTITY AND LOCATION.
 - (N-2) ALL LOW VOLTAGE WIRING TO BE INSTALLED IN AN ENCLOSED CONDUIT SYSTEM.
 - (N-3) MINIMUM WIRING REQUIREMENTS SHOWN. PROVIDE ADDITIONAL WIRING AS PER MANUFACTURER'S RECOMMENDATIONS.
 - (N-4) CONTACT MANUFACTURER FOR SPECIFIC REQUIREMENTS TO TIE IN ALL COMPONENTS. PROVIDE APPROPRIATE ACCESSORIES AS REQUIRED FOR FULLY FUNCTIONAL INTERCOM SYSTEM.
 - (N-5) NOT USED.
 - (N-6) MOUNT VIDEO INTERCOM POWER SUPPLIES AND VIDEO INTERCOM DISTRIBUTION ADAPTOR TO THE WALL ABOVE T-BAR CEILING.
 - (N-7) AS PART OF THIS SCOPE OF WORK, PROVIDE PROGRAMMING, OUTPUT, HARDWARE, SOFTWARE, ETC. AS REQUIRED TO ENSURE VIDEO INTERCOM SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK COMPLY WITH THE FOLLOWING SEQUENCE OF OPERATION:
 - PRESSING ON "SCHOOL" DOOR STATION SHALL INITIATES COMMUNICATION REQUEST TO VIDEO INTERCOM STATIONS IN SCHOOL RECEPTION 122, OFFICE 122A, AND OFFICE 122B.
 - PRESSING ON "DAYCARE" DOOR STATION SHALL INITIATES COMMUNICATION REQUEST TO VIDEO INTERCOM STATIONS IN PRE-SCHOOL A1-103, TODDLER ROOM A1-107 AND INFANT ROOM A1-111.
 - PRESSING ON "EARLY-ON" DOOR STATION SHALL INITIATES COMMUNICATION REQUEST TO VIDEO INTERCOM STATIONS IN EARLY-ON A1-102.
 - (N-8) AS PART OF THIS SCOPE OF WORK PROVIDE AN INTERFACE DEVICE BETWEEN ACCESS CONTROL SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK AND VIDEO INTERCOM SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE THE FOLLOWING REQUIREMENTS:
 - VIDEO INTERCOM MASTER STATION IN RECEPTION 122 AND VIDEO INTERCOM SUB-MASTER STATION IN OFFICE 122A AND OFFICE 122B CAN RELEASE DOOR #3 AND DOOR #6 SEPARATELY.
 - VIDEO INTERCOM SUB-MASTER STATION IN INFANT ROOM A1-111, TODDLER ROOM A1-107 AND PRE-SCHOOL A1-103 CAN RELEASE DOOR #1, DOOR #2, DOOR #3, AND DOOR #4 UPON THE RELEASE OF DOOR #1, DOOR #4 SHALL ALSO BE RELEASED WITH A 60 SECOND TIMEOUT.
 - VIDEO INTERCOM SUB-MASTER STATION IN EARLY-ON A1-102 CAN RELEASE DOOR #1 AND DOOR #5 UPON THE RELEASE OF DOOR #1, DOOR #5 SHALL ALSO BE RELEASED WITH A 60 SECOND TIMEOUT.
- PROVIDE DOOR RELEASE ADAPTERS, WIRING, PROGRAMMING, ETC. AS REQUIRED.

2 VIDEO INTERCOM SYSTEM SCHEMATIC
SCALE: NTS

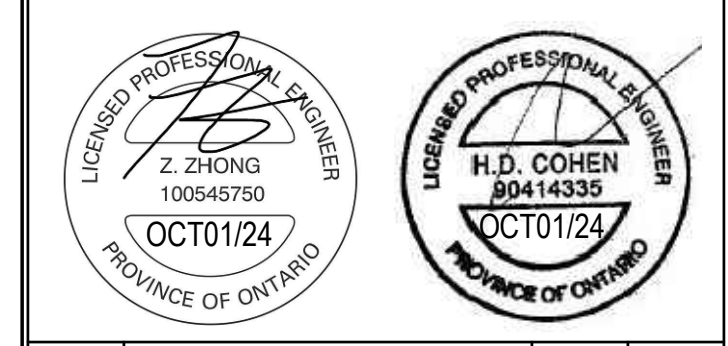
- 1 #18/2 AWG - PLENUM RATED
- 2 4 PAIR PLENUM RATED CAT 6 UTP CABLE
- 3 MULTI-CONDUCTOR CABLE PER MANUFACTURER'S RECOMMENDATIONS

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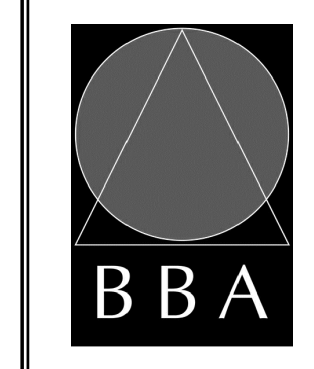


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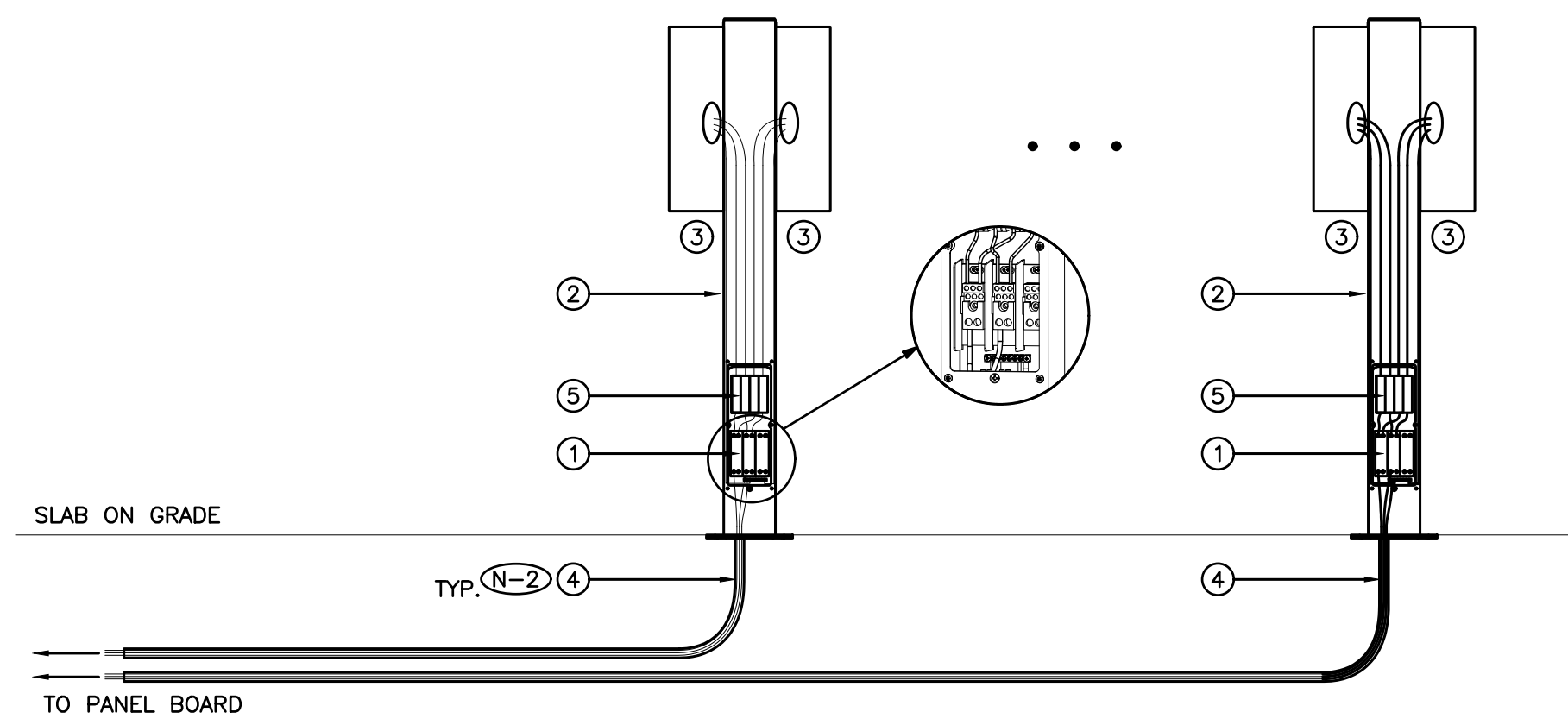
DRAWING:
ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers

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DATE: FEB 2023	SCALE: AS SHOWN
FILE:	

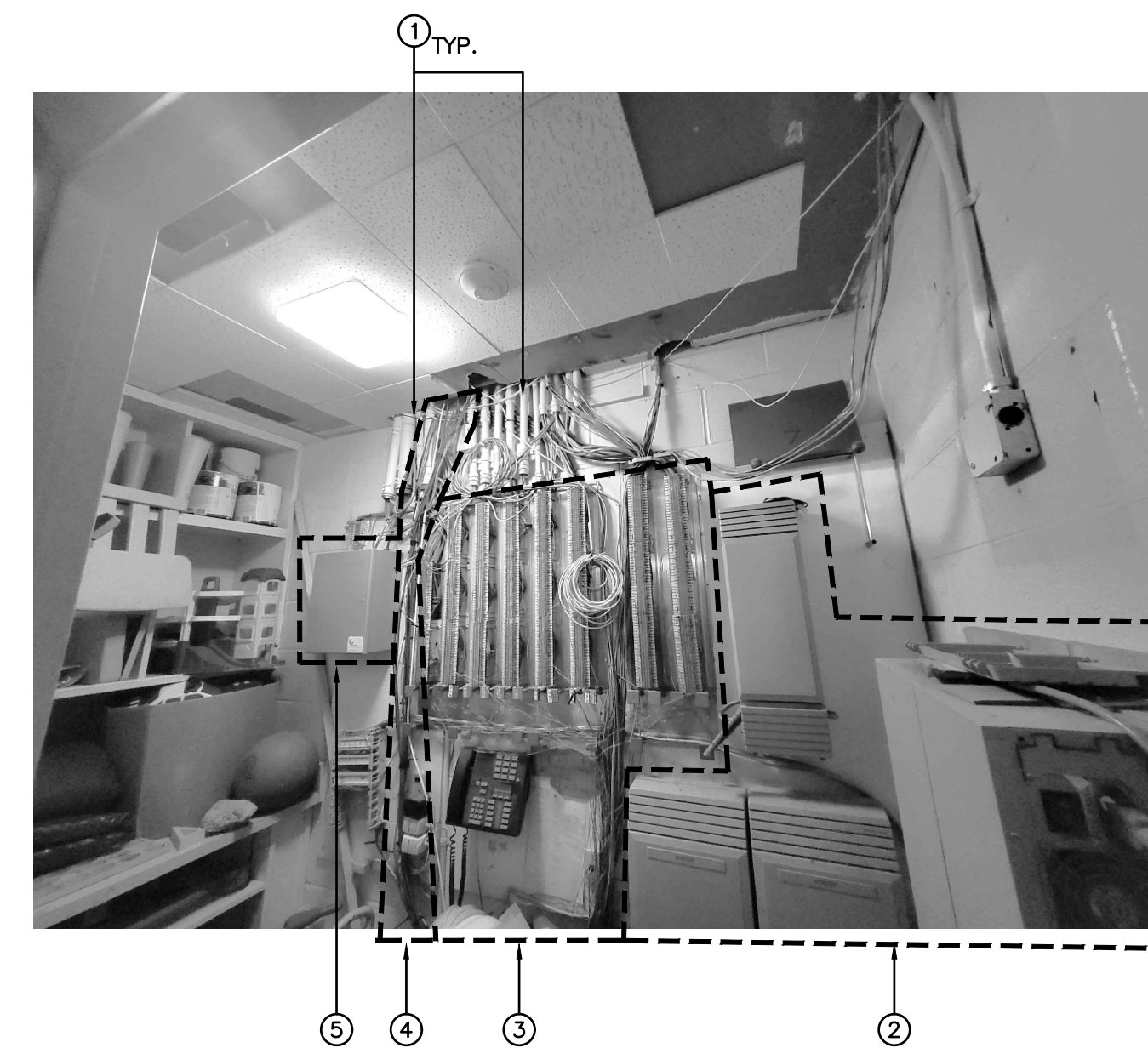
PROJECT NO: **23029**
DRAWING NO: **E-1.7**



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO DRAWING NO. E-7.1 AND E-8.1 FOR QUANTITY AND LOCATION OF DEVICES.
- (N-2) PROVIDE A DEDICATED CIRCUIT FOR EACH PEDESTAL (TWO CHARGING STATIONS). DO NOT SHARE CIRCUITS BETWEEN PEDESTALS.

- 1 TYPICAL FUTURE CASCADING MOUNTING BRACKET WITH TERMINAL BLOCKS SHOWN FOR REFERENCE PURPOSES ONLY.
- 2 TYPICAL FUTURE LEVEL 2 CAR CHARGING STATION SIDE TO SIDE DOUBLE PEDESTAL WITH CABLE MANAGEMENT SHOWN FOR REFERENCE PURPOSES ONLY.
- 3 TYPICAL FUTURE LEVEL 2 CAR CHARGING STATION SHOWN FOR REFERENCE PURPOSES ONLY.
- 4 TYPICAL DIRECT BURIED BRANCH CIRCUITS (CONDUITS AND WIRES) PROVIDED AS PART OF THIS SCOPE OF WORK FOR FUTURE CAR CHARGING STATION. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS.
- 5 TYPICAL FUTURE LOCAL ISOLATION BREAKERS SHOWN FOR REFERENCE PURPOSES ONLY.

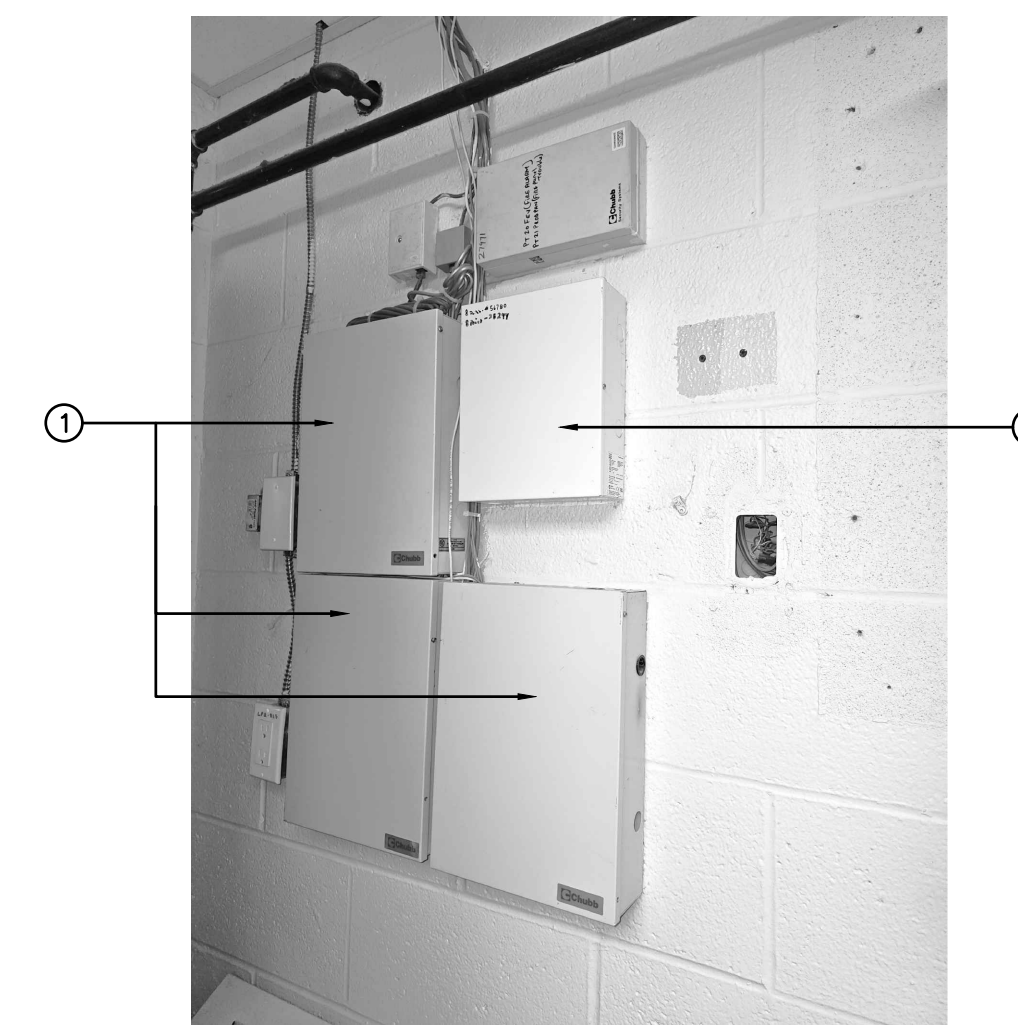
1 EXTERIOR LEVEL 2 CAR CHARGING STATION WIRING DIAGRAM
E-1.8 SCALE: NTS



(N-1) PHOTO ILLUSTRATES EXISTING VOICE IDF BACKBOARD AND IS INCLUDED FOR REFERENCE PURPOSES ONLY.

- 1 EXISTING COMMUNICATIONS CONDUIT TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- 2 EXISTING PHONE SYSTEM TO BE REMOVED BY COMMUNICATIONS CONTRACTOR.
- 3 EXISTING ANALOG CABLE SYSTEM TO BE REMOVED BY COMMUNICATIONS CONTRACTOR.
- 4 EXISTING CCTV CABLES TO BE REMOVED AND REPLACED WITH NEW BY COMMUNICATIONS CONTRACTOR.
- 5 EXISTING BAS SYSTEM TO BE RELOCATED BY MECHANICAL CONTRACTOR.

2 PHOTO - EXISTING VOICE IDF BACKBOARD
E-1.8 SCALE: NTS



(N-1) PHOTO ILLUSTRATES EXISTING SECURITY SYSTEM AND IS INCLUDED FOR REFERENCE PURPOSES ONLY.

- 1 EXISTING SECURITY AND INTRUSION SYSTEM CONTROL PANEL TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK.
- 2 EXISTING ACCESS CONTROL SYSTEM CONTROL PANEL TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK.

3 PHOTO - EXISTING SECURITY SYSTEMS CONTROL PANELS
E-1.8 SCALE: NTS

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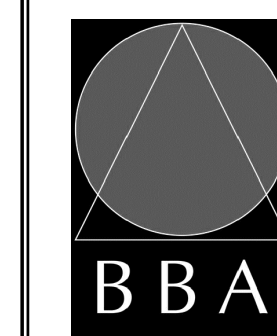


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
ELECTRICAL DETAILS



BARRY BRYAN ASSOCIATES

Architects
Engineers
Project Managers

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Whitby Ontario L1N 0G5
Tel: (905) 666-5252
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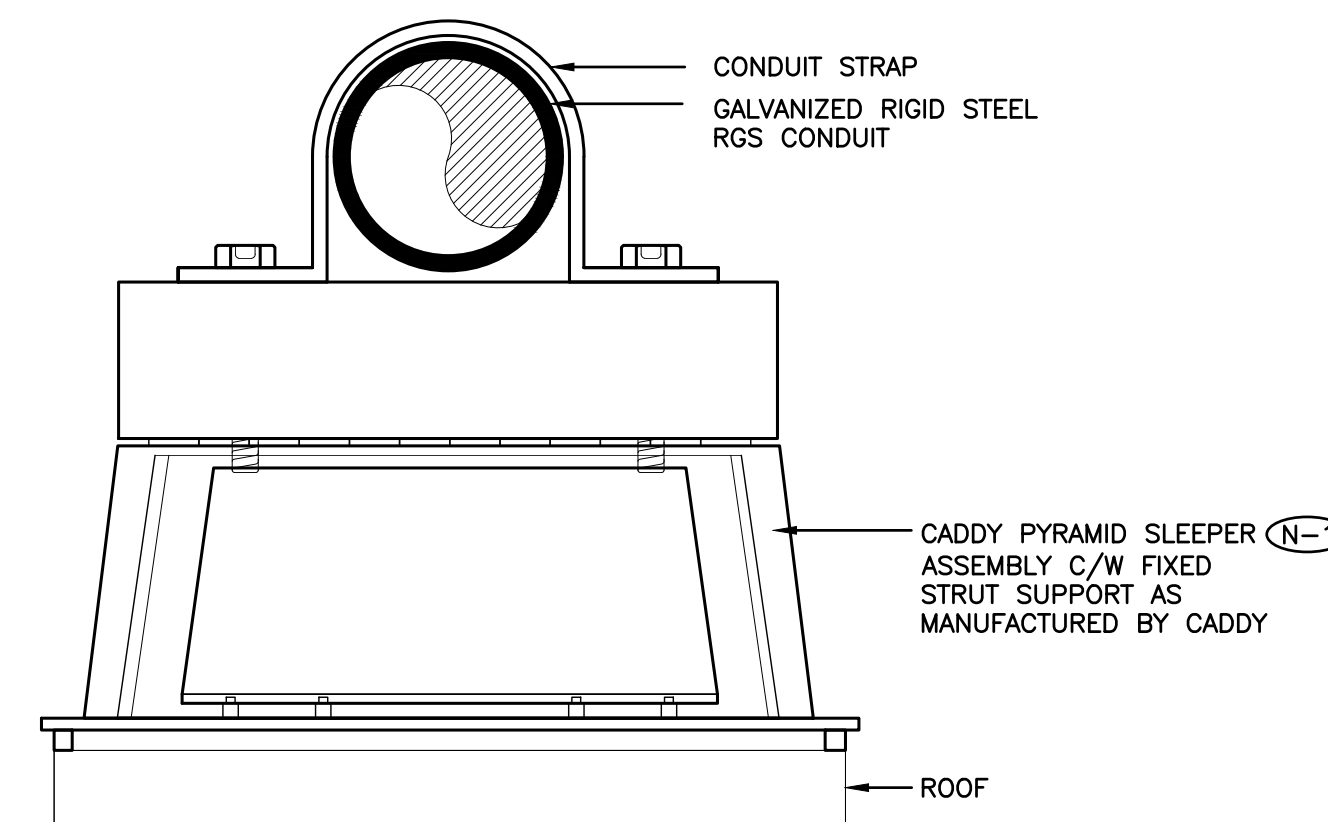
PROJECT NO: **23029**
DRAWING NO: **E-1.8**



(N-1) PHOTOS ILLUSTRATE EXISTING CORRIDOR C101 CONDITION AND ARE INCLUDED FOR REFERENCE PURPOSES ONLY.

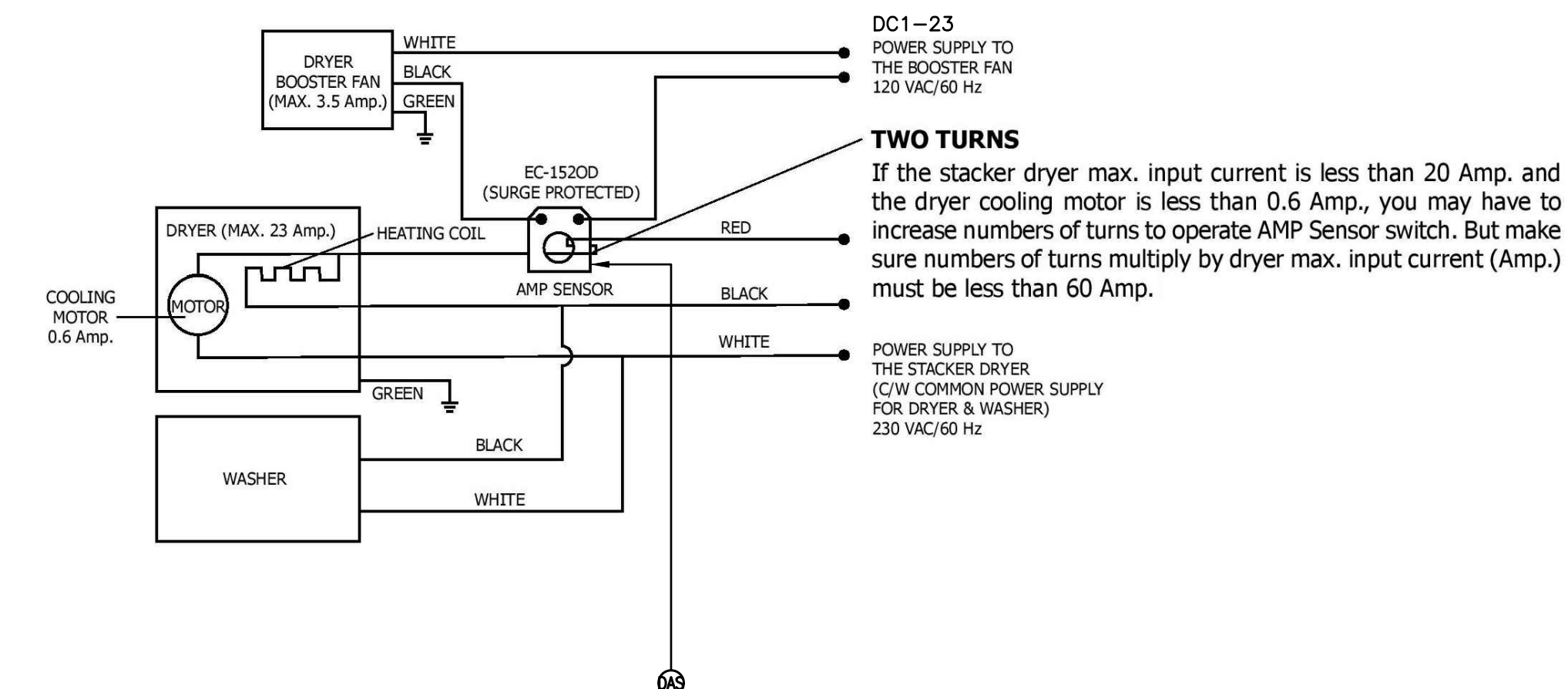
- 1 EXISTING PUBLIC ADDRESS AND COMMUNICATIONS JUNCTION BOX TO REMAIN
- 2 EXISTING COMMUNICATIONS CONDUIT TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR.
- 3 EXISTING CEILING MOUNTED RACEWAY FOR FIRE ALARM CIRCUITS TO BE REMOVED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR
- 4 EXISTING CEILING MOUNTED RACEWAY FOR BRANCH CIRCUITS C/W WIRING TO BE DISCONNECTED, REMOVED, AND RECONNECTED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR. PROVIDE JUNCTION BOX AS REQUIRED.

4 PHOTOS - CORRIDOR C101
E-1.8 SCALE: NTS



- (N-1) PROVIDE SLEEPERS AT 5' INTERVALS.
- (N-2) PROVIDE SECONDARY MEMBRANES AND FOAMS AS RECOMMENDED BY MANUFACTURER FOR SPECIFIC ROOF TYPES AND APPLICATIONS.

5 ROOFTOP CONDUIT MOUNTING DETAIL
E-1.8 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE LOCATIONS AND ADDITIONAL REQUIREMENTS.
- (N-2) CONDUIT, WIRE AND CONNECTIONS PROVIDED BY ELECTRICAL CONTRACTOR.
- (N-3) CONFIRM DRYER AND WASHER INSTALLATION ARRANGEMENT PRIOR TO INSTALLING DRYER AMP SENSOR.

6 DRYER AMP SENSOR INSTALLATION DETAIL
E-1.8 SCALE: NTS

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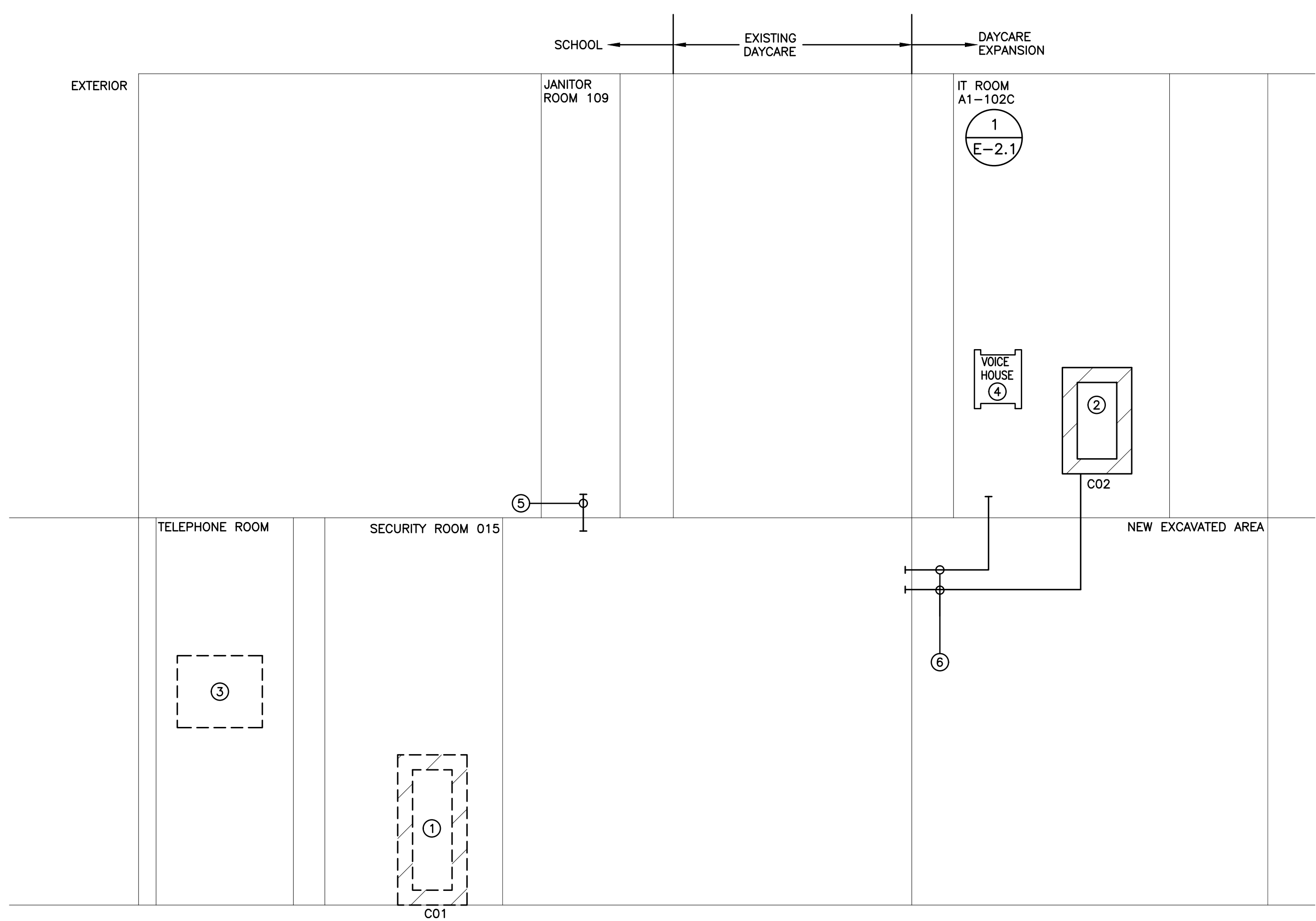
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DRAWING:
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BARRY BRYAN ASSOCIATES
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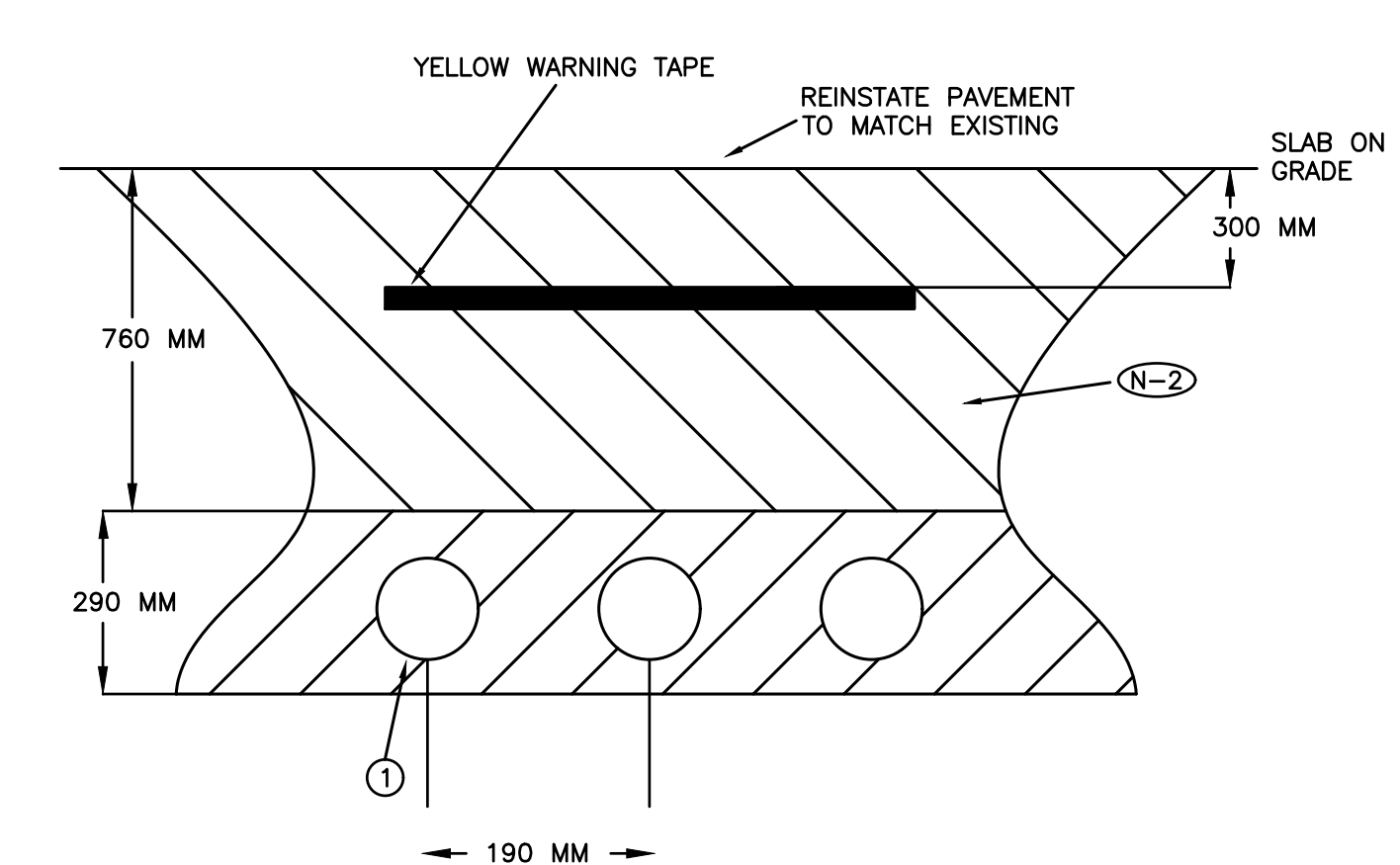


- (N-1) RISER IS DIAGRAMMATIC ONLY.
- (N-2) REFER TO FLOOR PLANS FOR EXACT LOCATION AND QUANTITY OF DEVICES.
- (N-3) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY SCAN RESULTS. ALL SCANS MUST BE REVIEWED AND APPROVED BY OWNER PRIOR TO CORE DRILLING.

- ① EXISTING NETWORK EQUIPMENT CABINET
- ② NETWORK EQUIPMENT CABINET PROVIDED BY COMMUNICATIONS CONTRACTOR.
- ③ EXISTING VOICE MDF BACKBOARD
- ④ PUNCH DOWN BLOCK ASSEMBLIES PROVIDED BY COMMUNICATIONS CONTRACTOR.
- ⑤ 1 1/4" ZONE CONDUIT C/W BUSHINGS AND RUBBERIZED GROMMETS FOR COMMUNICATIONS CONTRACTOR'S USE.
- ⑥ DIRECT BURIED 2" ZONE CONDUIT C/W BUSHINGS AND RUBBERIZED GROMMETS FOR COMMUNICATIONS CONTRACTOR'S USE.

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

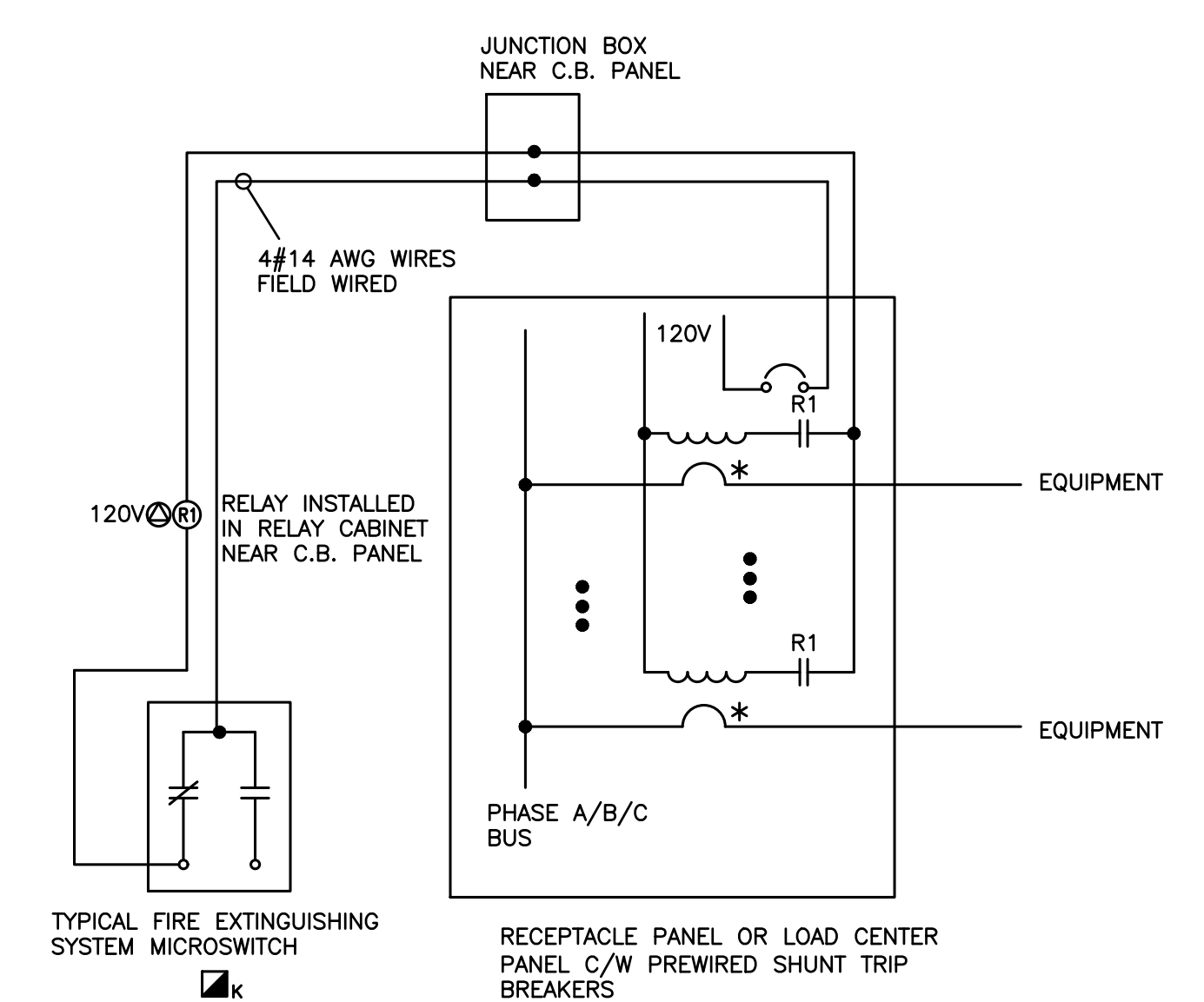
1
 COMMUNICATIONS CONDUIT RISER DIAGRAM
 SCALE: NTS



- (N-1) DETAIL IS DIAGRAMMATIC ONLY. REFER TO ELECTRICAL PLANS FOR QUANTITY OF CONDUITS AND ADDITIONAL REQUIREMENTS.
- (N-2) ALL TRENCHING AND BACKFILL WORK SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
- (N-3) PROVIDE SANDBED AND GRANULAR BACKFILL.
- (N-4) CONTRACTOR TO IDENTIFY ALL EXISTING SITE SERVICES PRIOR TO TRENCHING. COORDINATE AND PROVIDE ALL UTILITY LOCATES PRIOR TO TRENCHING INSTALLATION. PROTECT ALL EXISTING SITE SERVICES AND UTILITY SERVICES.
- (N-5) PROVIDE PERMANENT SURFACE MARKER (TYPE AND LOCATION TO BE APPROVED BY THE COMMISSIONER OF TRANSPORTATION AND WORKS) WITH COMPANY NAME AND 24 HOUR CONTACT NUMBER FOR ALL UNDERGROUND CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.

① SIZE AND QUANTITY OF RACEWAYS AS DETAILED ON DRAWINGS
 CONFIRM ARRANGEMENT, SPACING AND DIMENSIONS WITH ESA FIELD INSPECTOR PRIOR TO INSTALLATION OF DIRECT BURIED CONDUITS.

2
 UNDERGROUND DIRECT BURIED CONDUIT INSTALLATION DETAIL
 SCALE: NTS



- (N-1) SCHEMATIC IS DIAGRAMMATIC ONLY.
- (N-2) PRIOR TO ROUGH-IN REVIEW AND COORDINATE INSTALLATION WITH KITCHEN EQUIPMENT SUPPLIER AND FIRE SUPPRESSION CONTRACTOR.

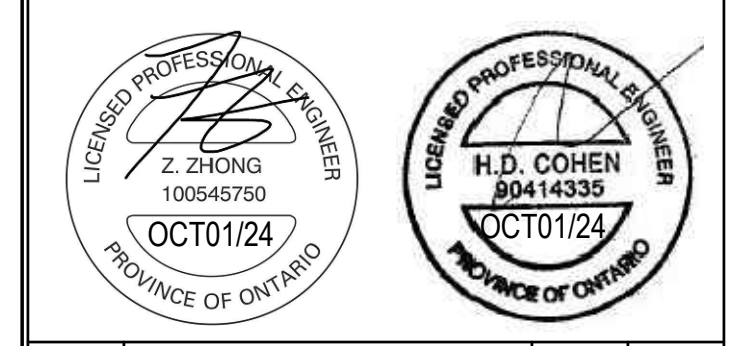
3
 KITCHEN EQUIPMENT SHUNT TRIP WIRING SCHEMATIC
 SCALE: NTS

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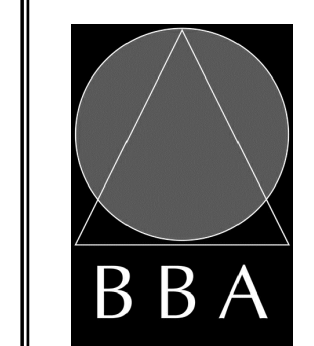


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
ELECTRICAL PLAN



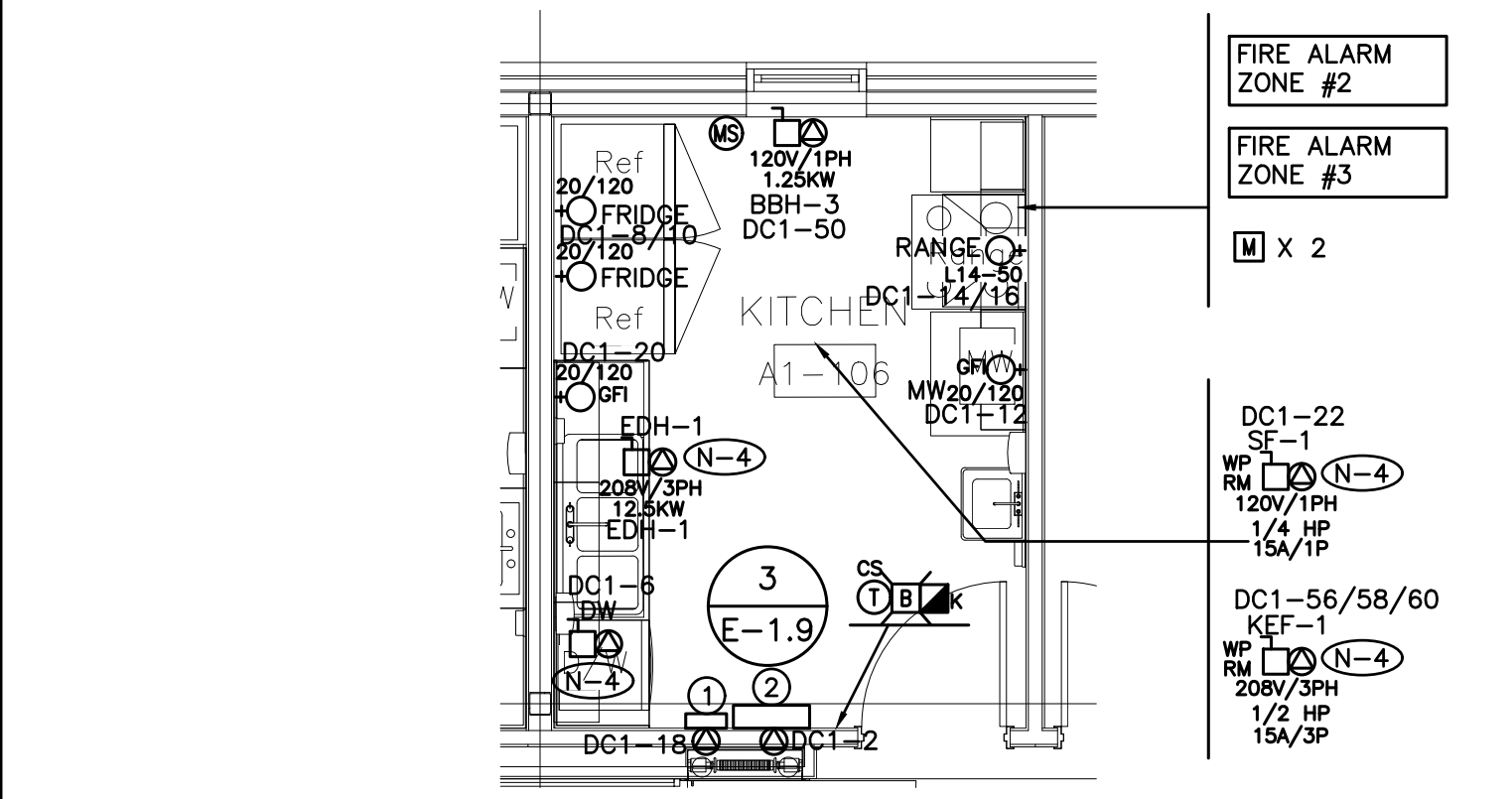
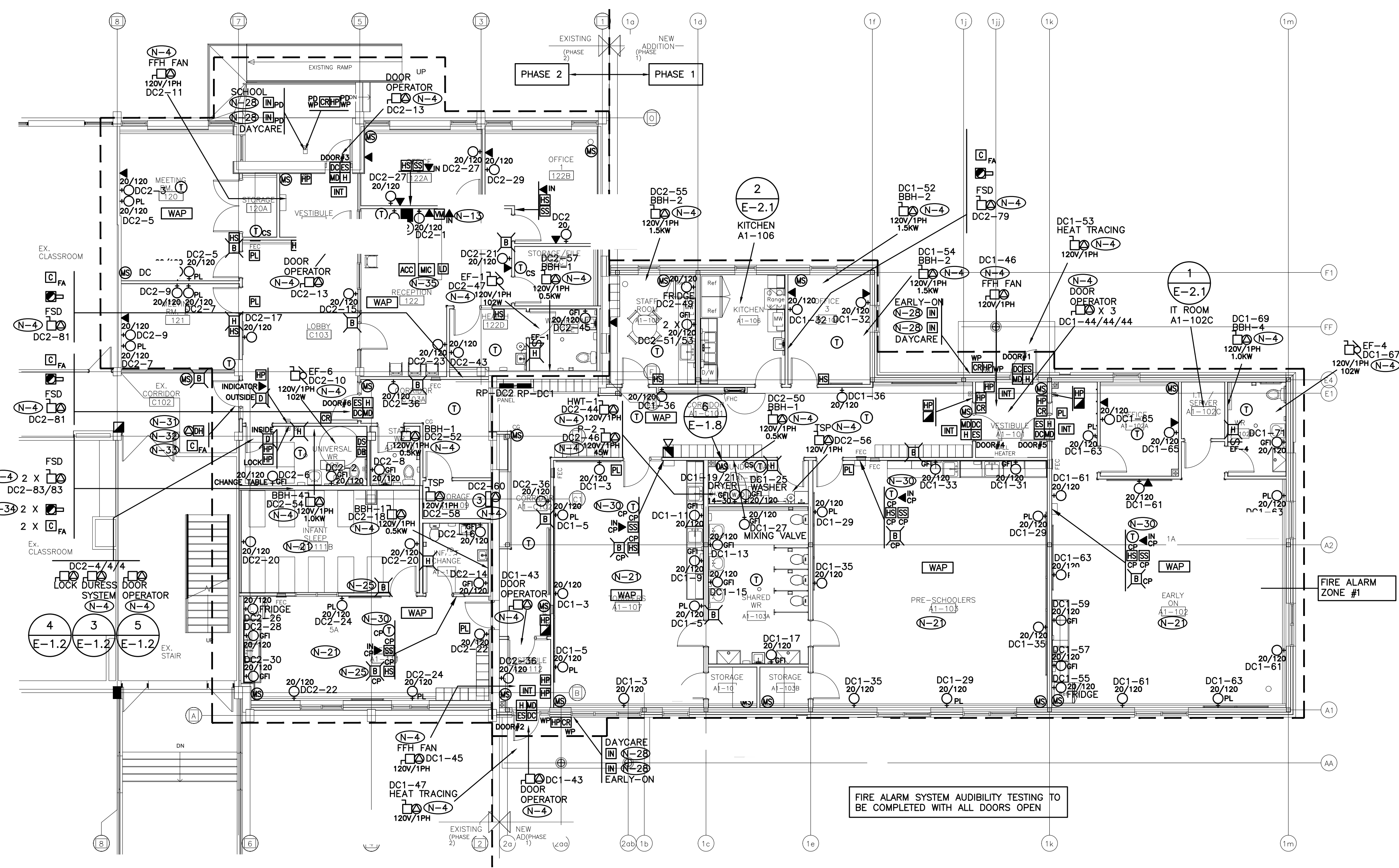
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SCALE: 1:100	
FILE:	

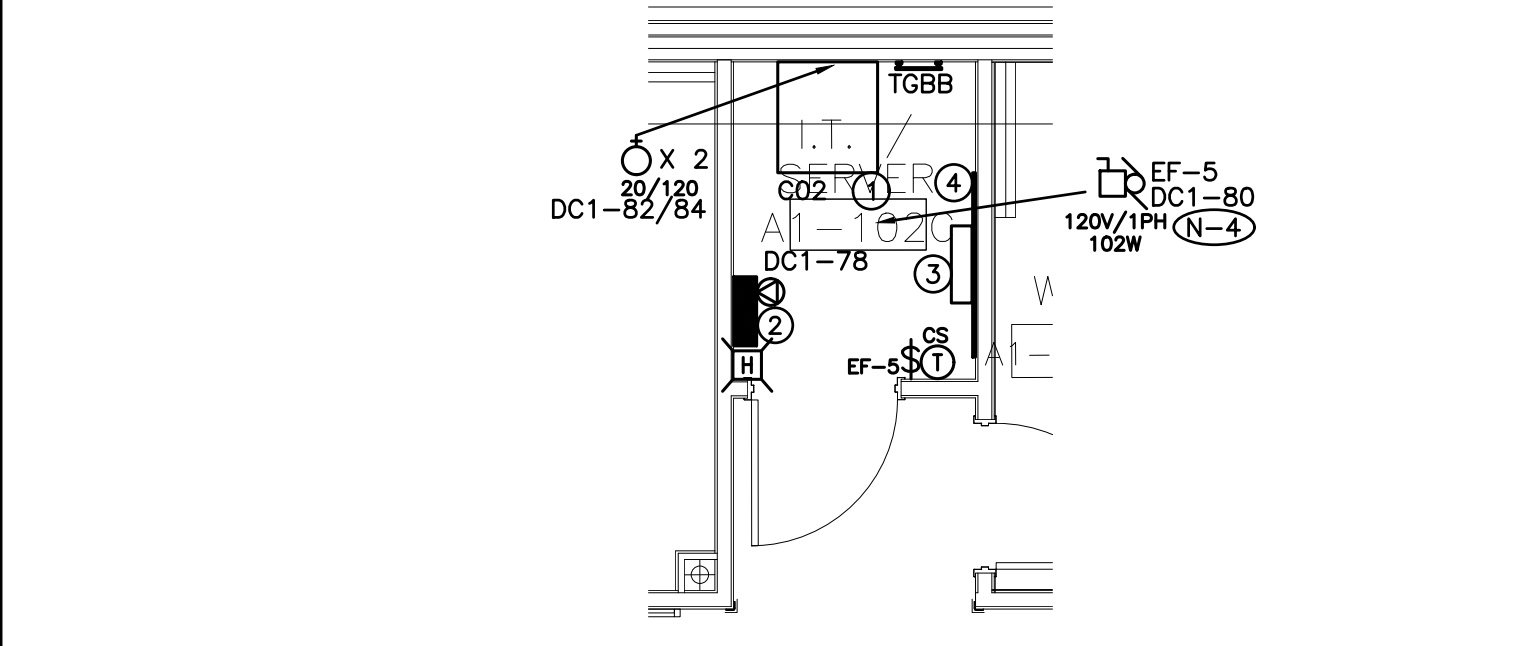
PROJECT NO: **23029**
 DRAWING NO: **E-2.1**



- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH OWNER.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND ARCHITECT DRAWINGS FOR ADDITIONAL DETAILS.

- ① KITCHEN EXHAUST AND MAKE UP AIR SYSTEM CONTROL PANEL SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AS PART OF THIS SCOPE OF WORK.
- ② SHUNT TRIP RELAY CABINET C/W PAINTABLE VENTILATED COVER

2 ELECTRICAL PLAN – KITCHEN A1-106
 SCALE: 1:50



- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH OWNER.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND ARCHITECT DRAWINGS FOR ADDITIONAL DETAILS.

- ① NETWORK EQUIPMENT CABINET PROVIDED BY COMMUNICATIONS CONTRACTOR.
- ② FIRE ALARM SYSTEM BOOSTER PANEL PROVIDED AS PART OF THIS SCOPE OF WORK. EXISTING UTILITY METER
- ③ PUNCH DOWN BLOCK ASSEMBLIES PROVIDED BY COMMUNICATIONS CONTRACTOR.
- ④ 4" X 8" X 3/4" FIRE RATED PLYWOOD BACKBOARD FOR VOICE IDF PROVIDED AS PART OF THIS SCOPE OF WORK. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT. MATCH TO COLOUR AS DIRECTED ON SITE BY ARCHITECT. FIRE RATED STAMP MUST BE ON ALL PILES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.

1 ELECTRICAL PLAN – IT ROOM A1-102C
 SCALE: 1:50

- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) NOT USED.
- (N-6) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-7) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-8) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-9) ROUTE ALL CONDUIT SYSTEMS AROUND BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- (N-10) MANUAL STARTER SWITCH/THERMOSTAT SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE CONDUIT AND WIRE.
- (N-11) MINIMUM WIRE SIZE #14AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 90 FEET LENGTH.
- (N-12) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-13) CONFIRM EXACT LOCATION TO INSTALL VIDEO INTERCOM STATION INDICATED ON SITE WITH PROJECT MANAGER.
- (N-14) PROVIDE REQUIRED PENETRATIONS THROUGH BUILDING ENVELOPE. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-15) PROVIDE SIX (6) DUPLEX RECEPTACLES IN CEILING SPACE ON AN AD HOC BASIS FOR CONTROL CONTRACTOR'S USE. UTILIZE COTS #RP-DC1-62/64/66/68/70/72. COORDINATE LOCATION OF CIRCUITS ON SITE WITH CONTROLS CONTRACTOR. BASE BID PRICE SHALL INCLUDE FOR 100' OF 2# 12 AWG + G (TOTAL OF 200' WIRE PLUS G) AND 100' 3/4" CONDUIT PER CONTROL CIRCUIT.

- (N-16) PROVIDE LOCKKANS FOR BREAKERS PROTECTING EMERGENCY LIGHTING CIRCUITS AND FIRE ALARM SYSTEM CIRCUITS.
- (N-17) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL THREE (3) CSA 5-20R (T-SLOT) TAMPER RESISTANT DUPLEX RECEPTACLES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. 2.1 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION. EACH ADDITIONAL RECEPTACLE SHALL BE ON A DEDICATED CIRCUIT COMPLETE WITH BRANCH WIRING (CONDUIT AND WIRE) AND BREAKER. BREAKER REQUIREMENTS NOT INDICATED ON PANEL SCHEDULES.
 PROVIDE 100' OF 2# 12AWG + G (TOTAL OF 200' WIRE PLUS G) AND 100' 3/4" CONDUIT PER RECEPTACLE. BREAKERS, TERMINATION AT PANEL BREAKER END AND AT DEVICE END, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND PANEL SOURCE TO BE DETERMINED ON SITE BY CLIENT DURING CONSTRUCTION. PROVIDE UPDATED TYPED PANEL SCHEDULES FOR ALL PANELS AT THE COMPLETION OF THE PROJECT.
- (N-18) ALL RECEPTACLES PROVIDED AS PART OF THIS SCOPE OF WORK AND INSTALLED WITHIN KITCHEN EXCEPT THOSE SPECIFICALLY EXCLUDED IN OESC SHALL BE TAMPER RESISTANT RECEPTACLES. ALL RECEPTACLES PROVIDED AS PART OF THIS SCOPE OF WORK FOR ALL OTHER AREAS AND ROOMS SHALL BE TAMPER RESISTANT RECEPTACLES.
- (N-19) PROVIDE SINGLE GANG AND 4 X 4 VAPOUR BARRIERS AS MANUFACTURED BY IBERVILLE TO PREVENT MOISTURE AND AIR INFILTRATION INTO THE RESPECTIVE ELECTRICAL BACKBOX FOR KITCHEN DEVICES.
- (N-20) NOT USED.
- (N-21) CIRCUITS FEEDING RECEPTACLES IN ROOMS / AREAS INDICATED SHALL BE PROTECTED BY ARC FAULT CIRCUIT INTERRUPTERS.
- (N-22) NOT USED.
- (N-23) INTERLOCK EXHAUST FAN INDICATED WITH LOCAL LIGHT SWITCHING LEG. PROVIDE REQUIRED RELAY, TRANSFORMER, CONDUIT AND WIRE.
- (N-24) USE PVC COATED GALVANIZED RIGID STEEL CONDUIT ROBROY PERMACOTE IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.
- (N-25) PROVIDE HORN/STROBE COVER MANUFACTURED BY STI FOR HORN/STROBE INDICATED.
- (N-26) NOT USED.
- (N-27) NOT USED.

- (N-28) PROVIDE LAMACOID PLATES WITH VERBIAGE "SCHOOL", "DAYCARE", OR "EARLY-ON" FOR VIDEO INTERCOM DOOR STATIONS INDICATED.
- (N-29) PROVIDE A CLEAR LEXAN POLYCARBONATE HINGED SHIELD AND FRAME C/W LOCAL AUDIBLE ALARM FOR EACH AND EVERY FULLSTATION PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-30) PROVIDE ONE (1) 14" DIAMETER BATTERY OPERATED LOCK FOR CLOCK PANEL INDICATED - ITC 90/0014-1 C/W BATTERIES.
- (N-31) COORDINATE EXACT MOUNTING DETAILS FOR MAGNETIC DOOR HOLDERS ON SITE WITH ARCHITECT PRIOR TO ORDERING MAGNETIC DOOR HOLDERS.
- (N-32) MAGNETIC HOLD OPEN DEVICES PROVIDED AS PART OF THIS SCOPE OF WORK MUST RELEASE UPON SIGNAL FROM FIRE ALARM SYSTEM. PROVIDE ALL REQUIRED ACCESSORIES. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-33) PROVIDE PROGRAMMING TO INITIATE HOLD OPEN DOORS SEQUENCE OF OPERATIONS WHEN DOOR HOLDER SMOKE DETECTOR OR FIRE ALARM SYSTEM IS ACTIVATED. PROVIDE REQUIRED WIRING, COMPONENTS, ACCESSORIES, ETC.
- (N-34) EQUIP SMOKE DETECTOR INDICATED WITH AN ADDITIONAL SET OF CONTACTS AND WIRING TO SIGNAL THE DAMPER TO CLOSE.
- (N-35) MOUNT ADMINISTRATIVE CONTROL CONSOLE INDICATED ON DESK. COORDINATE EXACT LOCATION ON SITE WITH PRINCIPAL.

- ① 1 1/4" ZONE CONDUIT C/W BUSHINGS AND RUBBERIZED GROMMETS FOR COMMUNICATIONS CONTRACTOR'S USE.
- ② AUDIO SYSTEM EQUIPMENT CABINET PROVIDED AS PART OF THIS SCOPE OF WORK.
- ③ EXISTING BAS SYSTEM IN RELOCATED POSITION. REFER TO DETAIL NO. 2 ON DRAWING NO. E-1.8 FOR ADDITIONAL REQUIREMENTS.

FIRE ALARM SYSTEM AUDIBILITY TESTING TO BE COMPLETED WITH ALL DOORS OPEN

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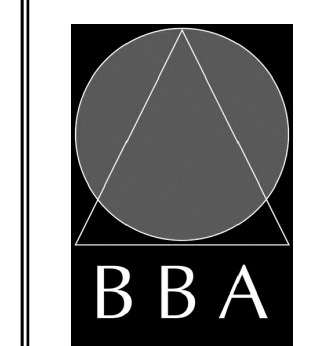


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PROJECT:
GARDARIE LA FARANDOLE

 Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
ELECTRICAL
ROOF PLAN

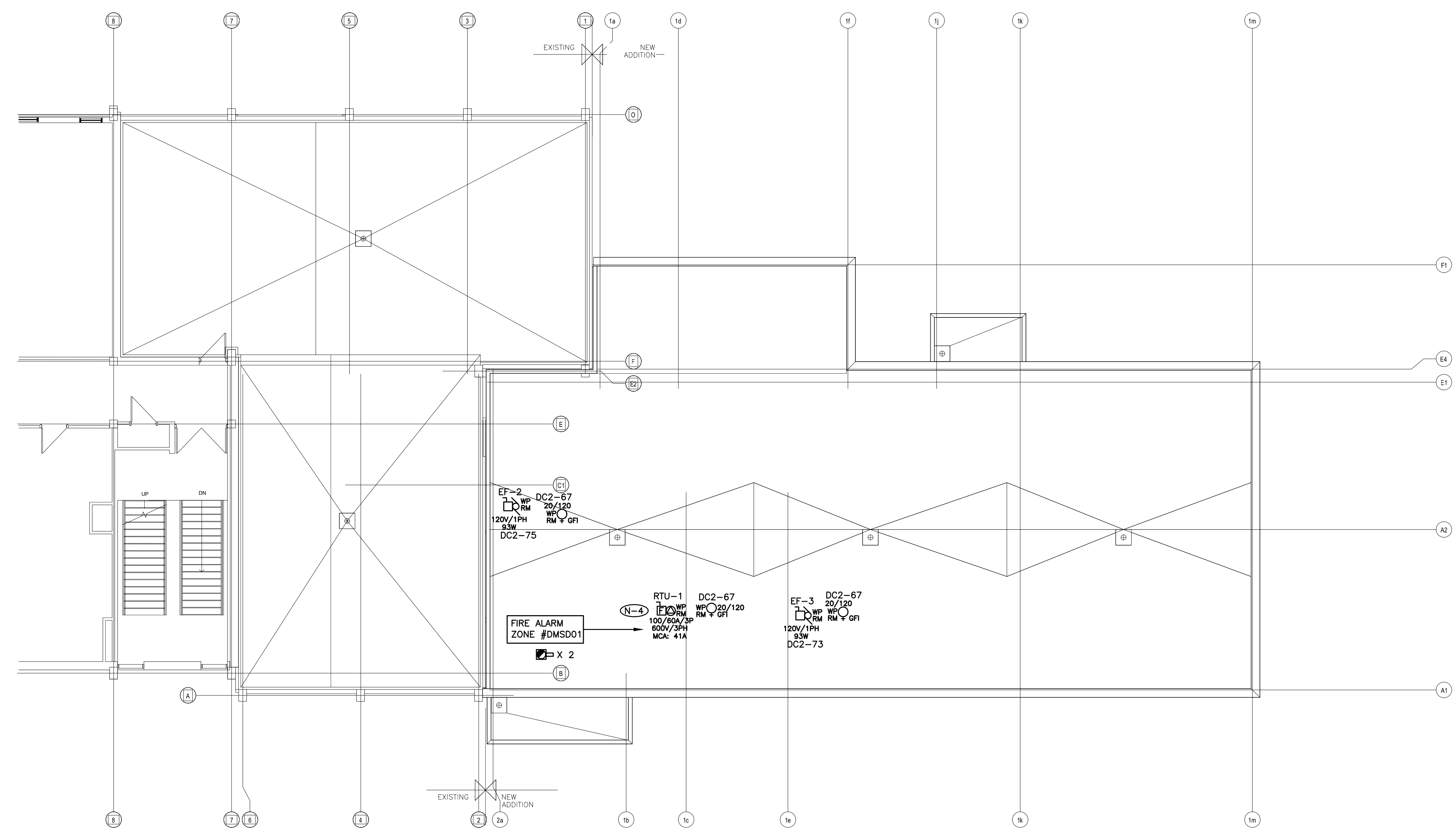


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CHECKED BY: PC	INITIAL:
DATE: FEB 2023	
SCALE: 1:100	
FILE:	

PROJECT NO: **23029** DRAWING NO: **E-2.2**



- (N-1) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT.
- (N-2) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS AND UTILITY POLES WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS. UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-3) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-4) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-5) COORDINATE WIRING REQUIREMENTS FOR MECHANICAL EQUIPMENT ON SITE WITH MECHANICAL CONTRACTOR.
- (N-6) CONFIRM ELECTRICAL REQUIREMENTS AND EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION OF ELECTRICAL SERVICES.
- (N-7) ALL FINAL CONNECTIONS TO MECHANICAL EQUIPMENT ARE TO BE IN LIQUID TIGHT FLEXIBLE CONDUIT.
- (N-8) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-9) USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.
- (N-10) PROVIDE REQUIRED PENETRATIONS THROUGH ROOF AND BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-11) MINIMUM WIRE SIZE #10AWG FOR ALL 120 VOLT CIRCUITS EXCEEDING 90 FEET IN LENGTH.

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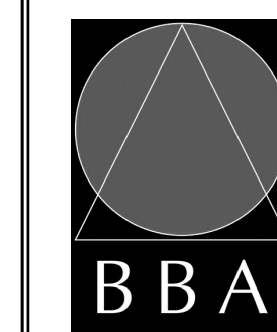


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
REFLECTED CEILING PLAN



BARRY BRYAN ASSOCIATES

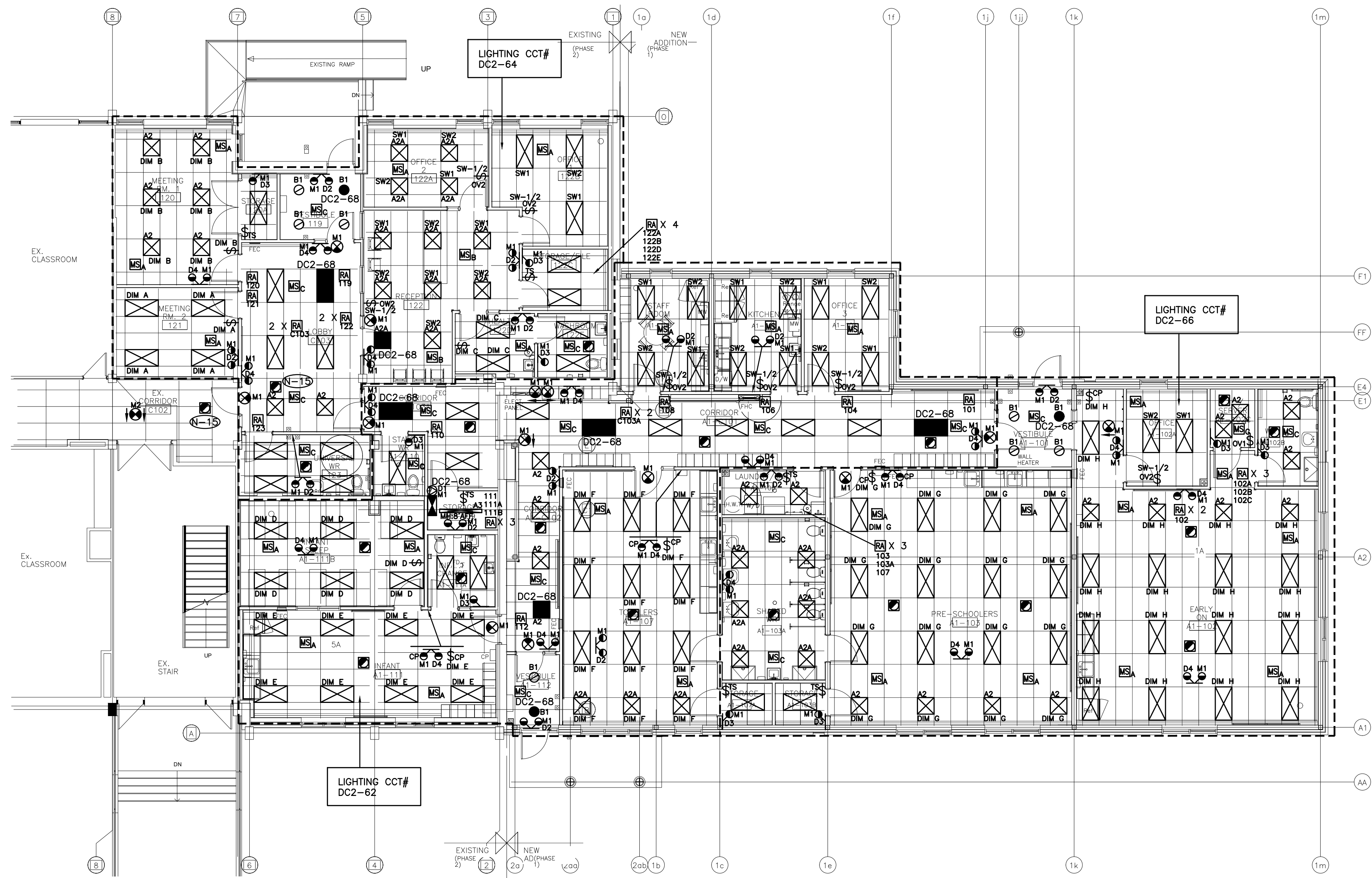
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PROJECT NO: **23029**
 DRAWING NO: **E-3.1**



DIMMER SCHEDULE

DIMMER ZONE	DIMMER TYPE
DIM A	DLM
DIM B	DLM
DIM C	DLM
DIM D	DLM
DIM E	DLM
DIM F	DLM
DIM G	DLM
DIM H	DLM

REFER TO DETAIL NO. 2 ON
 DRAWING NO. E-1.5 FOR
 FIXTURE SCHEDULE.

0 TO 10VDC DLM DIMMER - WATTSTOPPER DLM LMDM-101

- (N-1) REFER TO ARCHITECT DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, LIGHT SWITCHES, FIRE ALARM DEVICES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, FIRE ALARM DEVICES, ETC. TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) ALL FIXTURES TYPE "A1" UNLESS DENOTED OTHERWISE.
- (N-4) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
- (N-5) CHAIN HANG ALL FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS ABOVE FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).
- (N-6) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) TYPE E2 EXIT SIGNS EACH COMPLETE WITH 100'-0" OF CONDUIT AND WIRING OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 POST CITY FIRE / BUILDING DEPARTMENT INSPECTIONS.
- (N-7) ALL EXIT SIGNS TYPE "E1" UNLESS INDICATED OTHERWISE.
- (N-8) UTILIZE CCT #RP-DC2-68 (DC SOURCE M1 RESPECTIVELY) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
- (N-9) LOCATE AND POSITION EXIT SIGNS SUCH THAT THEY DO NOT INTERFERE WITH ADJACENT EXIT SIGNS AND EMERGENCY LIGHTING COVERAGE.
- (N-10) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- (N-11) NOT USED.
- (N-12) MOUNTING STYLE (CEILING/WALL), HEIGHT AND LOCATION OF EXIT SIGNS TO BE DETERMINED BY ARCHITECT ON SITE. COORDINATE AND REVIEW ALL EXIT SIGN LOCATIONS WITH ARCHITECT PRIOR TO ORDERING EXIT SIGNS.
- (N-13) PROVIDE LOCK ON FOR BREAKERS PROTECTING EMERGENCY LIGHTING SYSTEMS.
- (N-14) NOT USED.
- (N-15) INSTALL SMOKE DETECTOR INDICATED WITHIN 5' OF DOOR/FIRE SHUTTER.
- (N-16) DO NOT REUSE EXISTING FIRE ALARM SYSTEM DEVICES, EXIT SIGNS, OCCUPANCY SENSORS, DIMMERS OR SWITCHES REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-17) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-18) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-19) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6" AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATT STOPPER LIGHTING CONTROL SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-20) CEILING MOUNTED OCCUPANCY SENSORS IN ROOMS WITH DLM CONTROL TO BE PROGRAMMED SUCH THAT THE FUNCTION OF AUTO-ON IS DISABLED. ALL LIGHT FIXTURES WITHIN RESPECTIVE ENCLOSED SPACES SHALL BE TURNED ON MANUALLY THROUGH LOW VOLTAGE OVERRIDE SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK UNLESS INDICATED OTHERWISE.
- (N-21) ALL ROOM CONTROLLERS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED WITHIN CEILING MOUNTED JUNCTION BOXES PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-22) EACH AND EVERY SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS (IE. OFFICES, MEETING ROOMS, ENCLAVES, ETC.) WITH DLM CONTROL TO BE WIRED WITH TWO CONTROLLABLE SWITCH-LEGS SUCH THAT THERE IS ONE CONTROL STEP OF NOT MORE THAN 50% LIGHTING POWER IN ADDITION TO AN AUTO OFF IN THE RESPECTIVE SPACE. REFER TO ASHRAE 90.1 2016 FOR ADDITIONAL REQUIREMENTS.
- (N-23) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA. REWIRE EXISTING FIXTURES AS REQUIRED.
- (N-24) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- (N-25) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) TYPE 'A' CEILING MOUNTED OCCUPANCY SENSORS, 100'-0" OF CONDUIT AND WIRING OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 SUBSTANTIAL COMPLETION.
- (N-26) REMOVE AND REINSTALL EXISTING FIXTURES AS REQUIRED TO ACCOMMODATE BUILD OUT OF PARTITIONS BY GENERAL CONTRACTOR.
- (N-27) AS PART OF THE BASE BID PRICE ELECTRICAL CONTRACTOR SHALL PROVIDE (SUPPLY AND INSTALL) AN ADDITIONAL TWO (2) DIGITAL DIMMING ROOM CONTROLLERS OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-3.1 ON AN AD HOC BASIS UP TO SUBSTANTIAL COMPLETION.

 PROVIDE WATT STOPPER LMR-212-347 C/W CONDUIT, WIRE (50' OF 2#12AWG + G (TOTAL OF 100' WIRE PLUS G, 50' CONDUIT) PER ROOM CONTROLLER), TERMINATIONS, ETC. FOR FULLY FUNCTIONAL LIVE DEVICES. EXACT INSTALLATION LOCATION AND SWITCH LEGS TO BE DETERMINED ON SITE DURING CONSTRUCTION.
- (N-28) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, PUBLIC ADDRESS SYSTEM SPEAKERS, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- (N-29) ALL DEVICES, FIXTURES, FIRE ALARM DEVICES, SYSTEMS, ETC. MUST BE WIRED SUCH THAT ACCESS PANELS ARE NOT REQUIRED IN DRYWALL CEILING AREAS.

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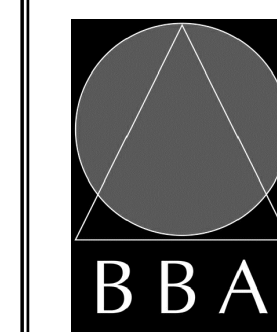


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**ELECTRICAL
 GROUNDING
 SYSTEM DETAILS**



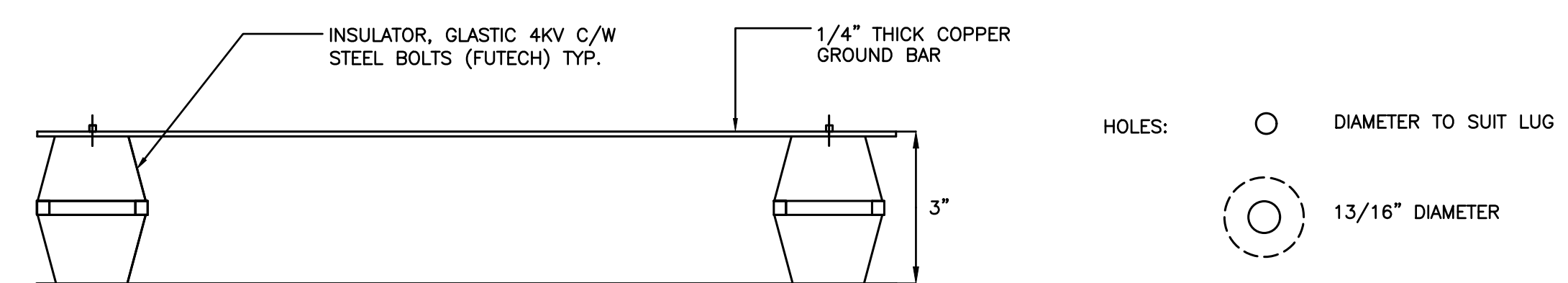
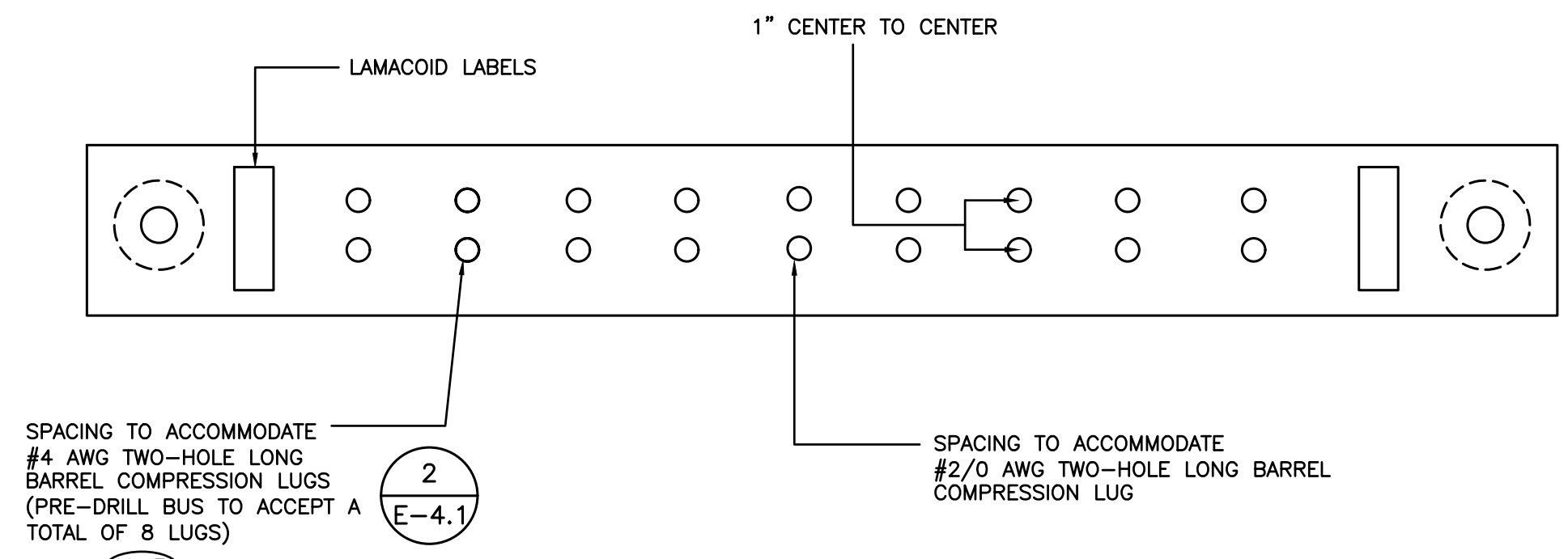
**BARRY BRYAN
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CHECKED BY: PC	INITIAL:
DATE: FEB 2023	
SCALE: AS SHOWN	
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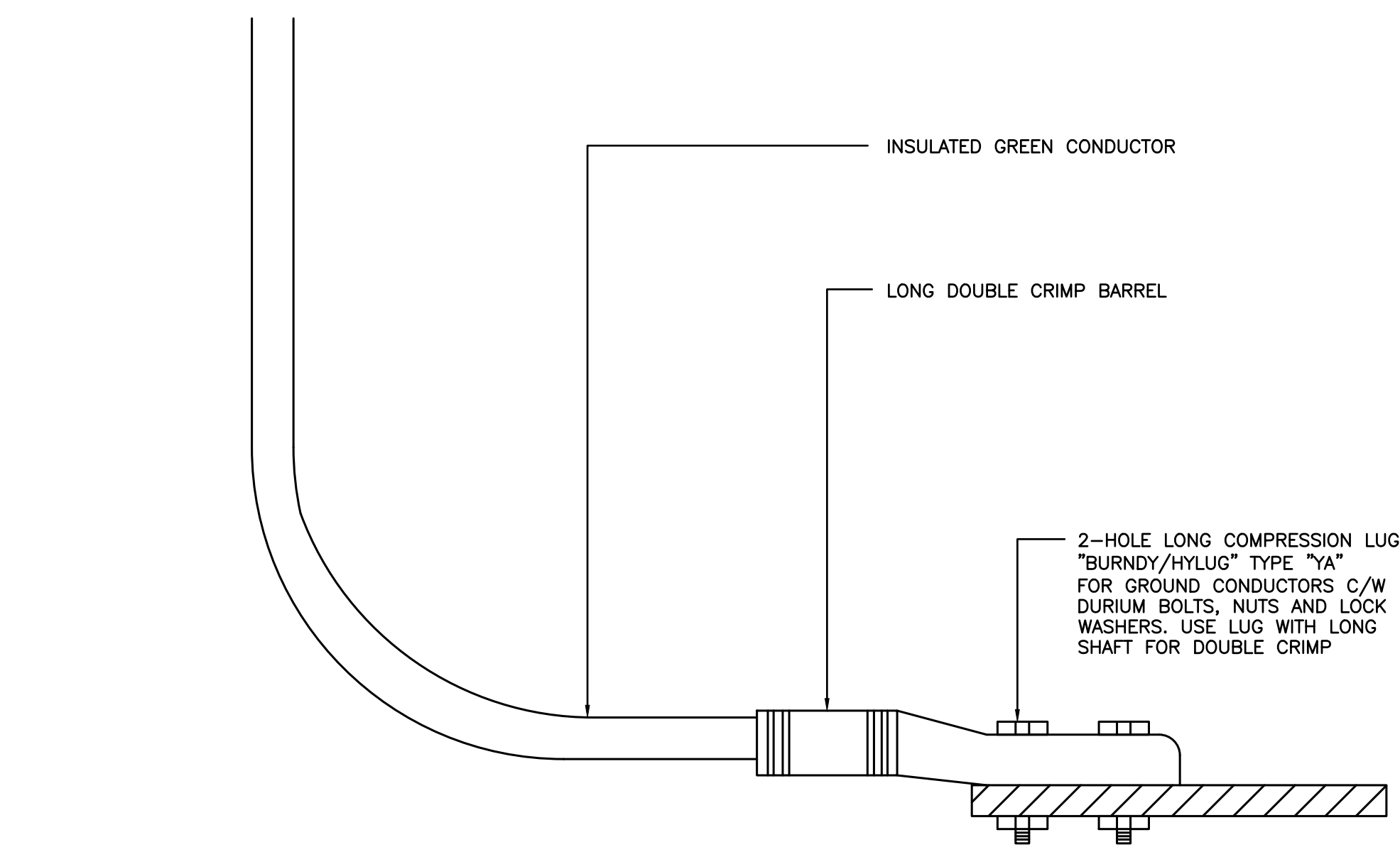
PROJECT NO: **23029**
 DRAWING NO: **E-4.1**



- (N-1) COVER TIPS, LUGS AND COPPER GROUND BAR WITH "PENETROX E" FROM "BURNDY" OR "KOPR-SHIELD" FROM "T&B".
- (N-2) INSTALL 2-HOLE LONG COMPRESSION LUGS FOR GROUND CONDUCTORS C/W DURUM BOLTS, NUTS AND WASHERS.
- (N-3) BUS BAR SHALL BE PRE-DRILLED BY THE MANUFACTURER TO MATCH PATTERN INDICATED. FIELD DRILLING IS NOT ACCEPTABLE.
- (N-4) FASTEN BUS BAR TO FIRE RATED PLYWOOD BACKBOARD AT HIGH LEVEL (BACKBOARD PROVIDED AS PART OF THIS SCOPE OF WORK).

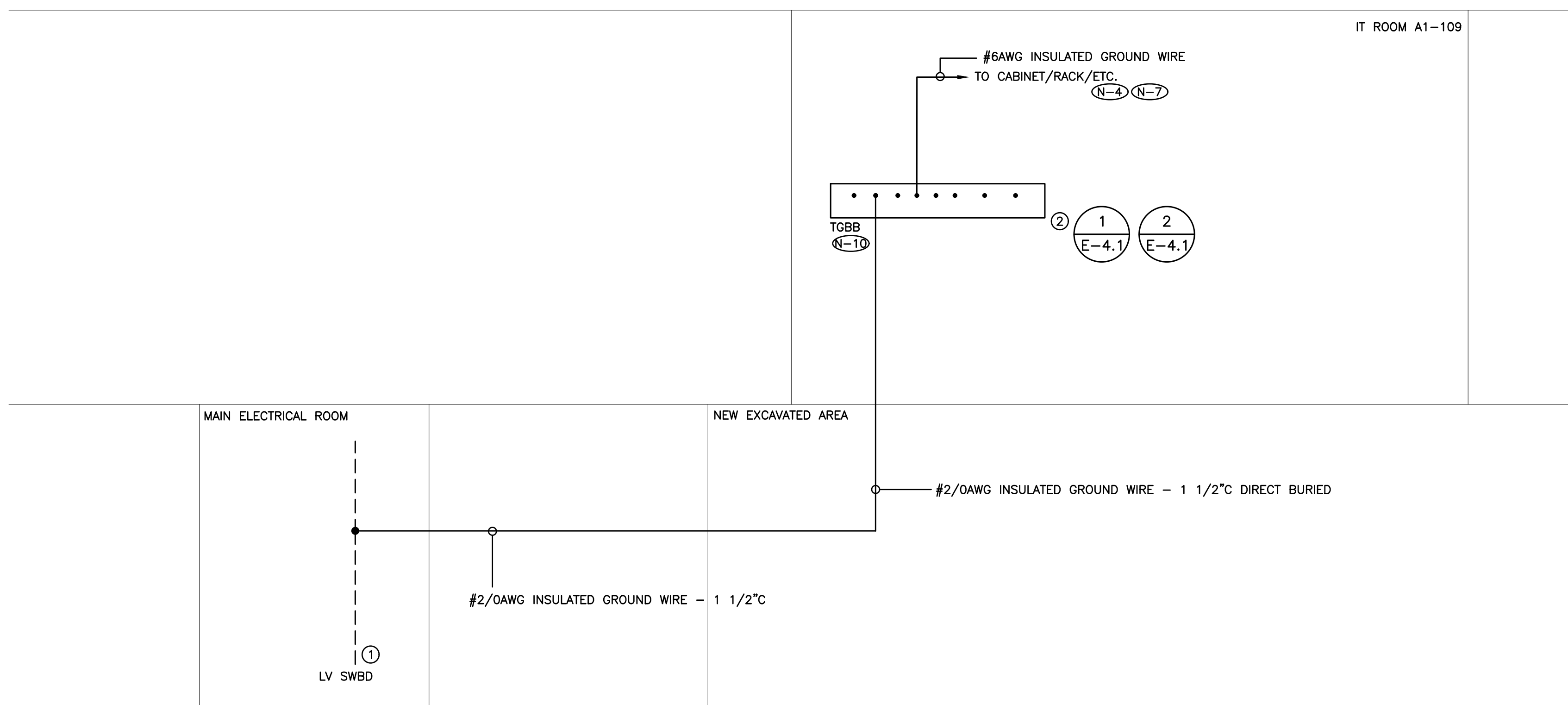
1 TELECOMMUNICATIONS GROUND BUS BAR (TGBB) DETAIL
 SCALE: NTS

2 GROUND LUG DETAIL
 SCALE: NTS



- (N-1) UTILIZE 2-HOLE LONG COMPRESSION LUGS FOR ALL CONNECTIONS TO BUS BARS AND TO ALL EQUIPMENT, CABINETS, RACKS, ETC.

2 GROUND LUG DETAIL
 SCALE: NTS



- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS AND TO DRAWING NO. E-2.0, E-2.1 AND E-7.1 FOR QUANTITY AND LOCATION OF ALL BUS BARS AND GROUNDING CONNECTIONS.
- (N-2) SIZE ALL NEUTRAL SYSTEM GROUNDS IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- (N-3) GROUNDING AND BONDING OF ALL EQUIPMENT NOT SHOWN ON THIS DETAIL SHALL BE COMPLETED IN ACCORDANCE WITH THE ELECTRICAL SAFETY CODE AND AUTHORITY HAVING JURISDICTION.
- (N-4) PROVIDE A GROUNDING CIRCUIT TO EACH EQUIPMENT CABINET, RACK, ETC., DO NOT DAISY CHAIN GROUNDING CIRCUITS BETWEEN CABINETS, RACKS, ETC. REFER TO FLOOR PLANS FOR QUANTITY AND LOCATION OF EQUIPMENT CABINETS, RACKS, ETC..
- (N-5) NOT USED.
- (N-6) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS.
- (N-7) SCRAPE OFF PAINT AT RACK/CABINET END PRIOR TO INSTALLING GROUND LUG.
- (N-8) NOT USED.
- (N-9) NOT USED.
- (N-10) LABEL EACH AND EVERY GROUNDING CIRCUIT AT GROUND BAR END UTILIZING PANDUIT TELECOMMUNICATIONS GROUNDING AND BONDING CONDUCTOR LABEL KIT LTK.
- (N-11) ELECTRICAL CONTRACTOR TO REVIEW GROUNDING SYSTEM PROVIDED AS PART OF THIS SCOPE OF WORK AND BASE BUILDING CONNECTION POINTS WITH ESA INSPECTOR PRIOR TO CONSTRUCTION.

- ① EXISTING GROUNDING CONNECTION POINT AT SERVICE ENTRANCE SWITCHBOARD
- ② 1/4" X 3" X 12" TELECOMMUNICATIONS GROUND BUS BAR (TGBB)

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

3 ELECTRICAL GROUNDING SYSTEM RISER DIAGRAM
 SCALE: NTS

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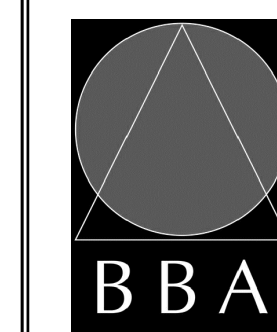


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**ELECTRICAL
 DEMOLITION PLAN**



**BARRY BRYAN
 ASSOCIATES**
 Architects
 Engineers
 Project Managers

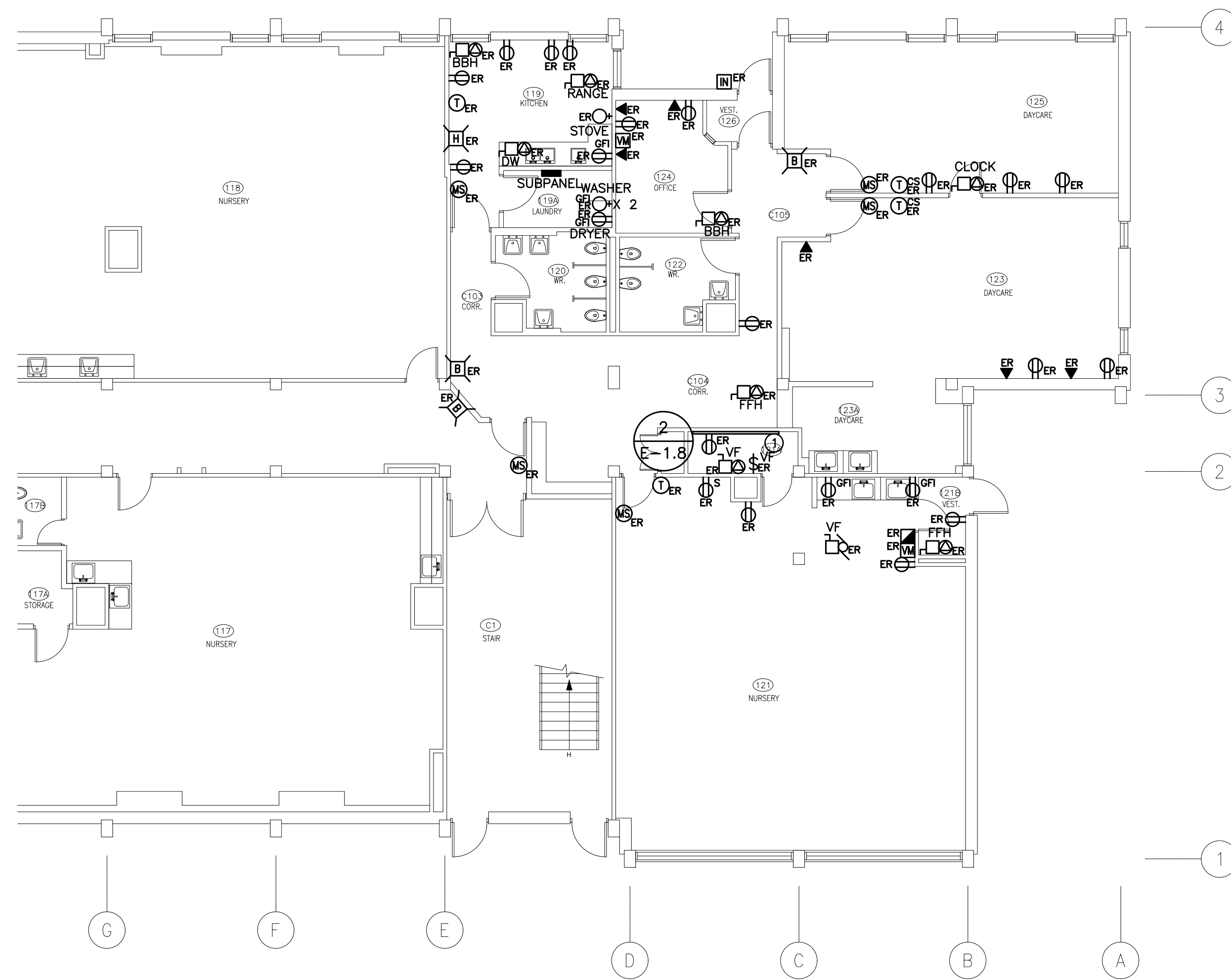
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PROJECT NO:
23029

DRAWING NO:
E-5.1



- (N-1) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF FOUR (4) ADDITIONAL RECEPTACLES, COMMUNICATIONS ROUGH-INS, ETC. OVER AND ABOVE THOSE SHOWN ON THIS DRAWING. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- (N-2) COORDINATE DEMOLITION REQUIREMENTS WITH DIVISION 15 TO ENSURE THAT POWER AND LINE VOLTAGE CONTROL WIRING FOR DIVISION 15 DEVICES TO REMAIN IS NOT DISCONNECTED. EXISTING DIVISION 15 DEVICES NOT SHOWN ON DRAWINGS.
- (N-3) ALL EXISTING BRANCH WIRING, RACEWAYS AND PACK POLES, INCLUDING THOSE COILED IN CEILING SPACE SHALL BE REMOVED BACK TO SOURCE PANEL. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS. DO NOT REUSE EXISTING WIRING OR CONDUIT SYSTEM.
- (N-4) REMOVE ALL EXISTING COMMUNICATIONS ZONE CONDUITS UNLESS NOTED OTHERWISE. EXISTING CONDUIT SYSTEMS NOT SHOWN ON DRAWING.
- (N-5) REMOVE ALL ABANDONED ZONE CONDUITS INCLUDING THOSE IN CEILING SPACE. EXISTING ZONE CONDUITS NOT SHOWN ON DRAWING.
- (N-6) CONFIRM DEMOLITION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTING MECHANICAL EQUIPMENT.
- (N-7) REMOVE CLEAR HINGED SHIELD AND FRAME AND ASSOCIATED LOCAL AUDIBLE ALARM FOR EACH AND EVERY PULLSTATION REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-8) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.

(1) EXISTING VOICE IDF BACKBOARD TO BE REMOVED AS PART OF THIS SCOPE OF WORK

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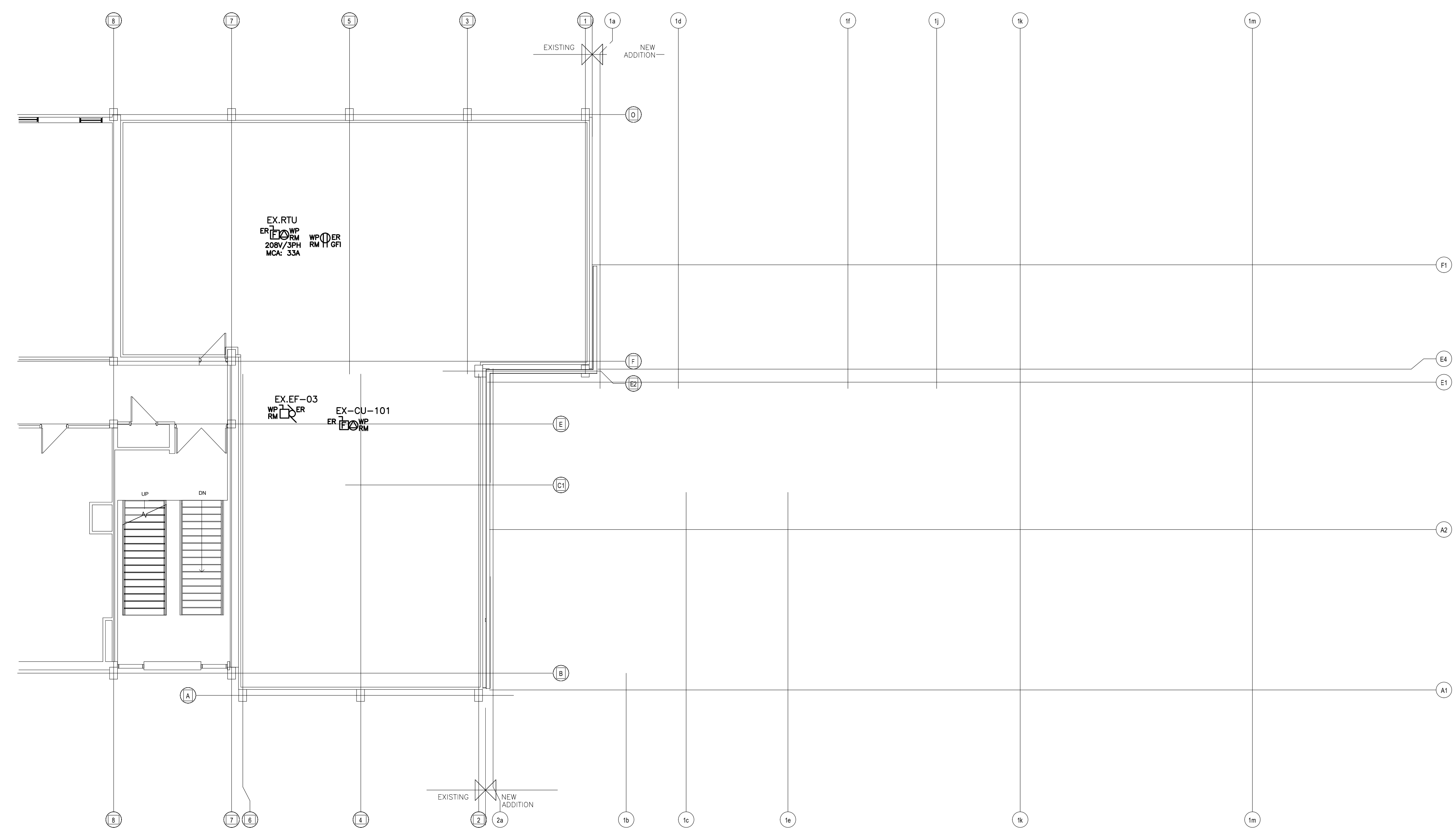
PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**ELECTRICAL ROOF
 DEMOLITION PLAN**

 BARRY BRYAN ASSOCIATES Architects Engineers Project Managers 201-250 Water Street Whitby Ontario L1N 0G5 Tel: (905) 666-5252 Fax: (905) 666-5256 e-mail: bba@bba-arch.com	DESIGN BY:	DOC CONTROL DATE:
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PROJECT NO: **23029** DRAWING NO: **E-5.2**



- (N-1) DO NOT REUSE ANY DEVICES, BACKBOXES, CONTROL SYSTEMS, ETC., REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-2) CONFIRM DEMOLITION REQUIREMENTS WITH MECHANICAL CONTRACTOR PRIOR TO DISCONNECTING MECHANICAL EQUIPMENT.
- (N-3) REWIRE ALL EXISTING TO REMAIN DEVICES AS REQUIRED TO ENSURE CONTINUITY OF SERVICES. EXISTING TO REMAIN DEVICES NOT SHOWN ON DRAWING.

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- (N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DRAWING NO. E-3.1 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- (N-2) NOT USED.
- (N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF FOUR (4) ADDITIONAL FIXTURES AND FIRE ALARM DEVICES OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-6.1.
- (N-4) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO EXTEND EXISTING DC CIRCUITS TO EMERGENCY LIGHTING BATTERY UNIT M1 PROVIDED AS PART OF THIS SCOPE OF WORK. CONFIRM DC VOLTAGE OF EXISTING BATTERY UNIT ON SITE PRIOR TO SUBMITTING EMERGENCY LIGHTING SHOP DRAWINGS FOR REVIEW. REPORT FINDINGS TO ELECTRICAL ENGINEER.
- (N-5) NOT USED.
- (N-6) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-7) DISPOSE OF ALL FIXTURES REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN 'GREEN MEASURES' REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-8) DO NOT REUSE EXISTING DIMMERS, SWITCHES, LAMPS, ETC DENOTED AS EXISTING TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-9) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.

REFER TO DETAIL NO. 2 ON
 DRAWING NO. E-1.5 FOR
 FIXTURE SCHEDULE.

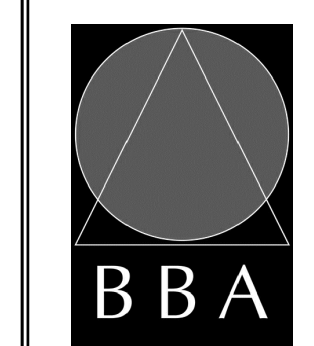


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**REFLECTED CEILING
 DEMOLITION PLAN**



**BARRY BRYAN
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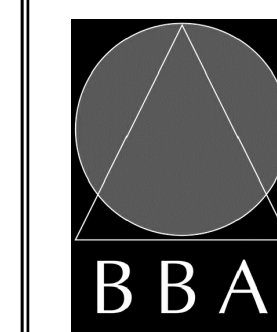


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**ELECTRICAL SINGLE
 LINE DIAGRAM**



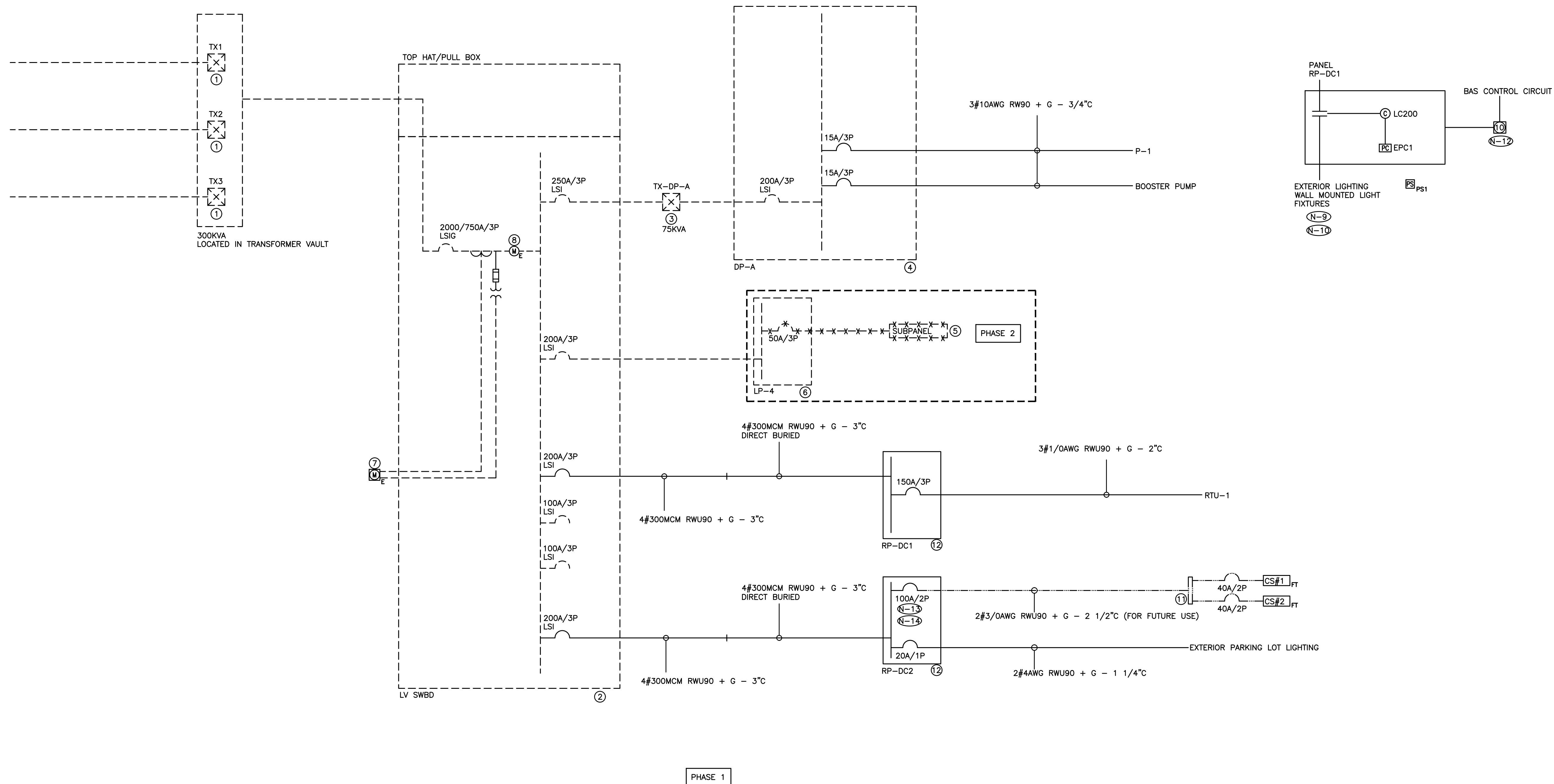
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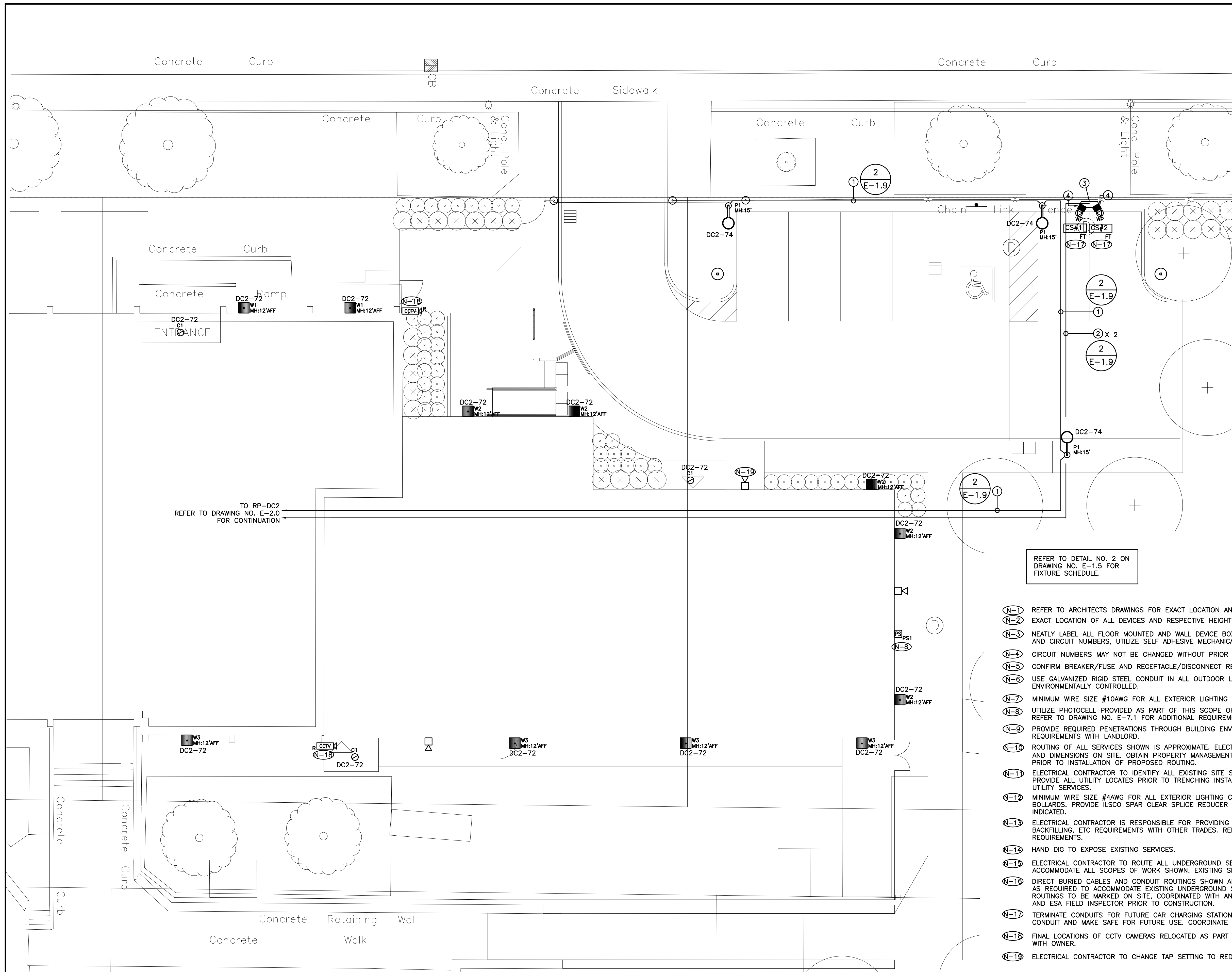
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 DRAWING NO: **E-7.1**



- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT. PAINT BACKBOARDS WITH WHITE FIRE RETARDANT PAINT. FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP. ALL BACKBOARDS TO BE SUITABLE FOR OUTDOOR INSTALLATION.
- (N-3) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-4) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE ALL INSTALLATION REQUIREMENTS. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-5) SEAL ALL CONDUITS AT STORAGE ROOM END AND AT TENANT SPACE END.
- (N-6) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. PROVIDE TEMPORARY GENERATOR AND CABLES AT PROJECT START UP UNTIL NEW UTILITY SERVICE IS ENERGIZED. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- (N-7) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2/TYPE 3R ENCLOSURE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-8) PROVIDE REQUIRED PENETRATIONS THROUGH BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-9) PROVIDE OVERRIDE SWITCH FOR PHOTOCELL TO FORCE PHOTOCELL OFF. OVERRIDE SWITCH TO BE INSTALLED IN MAIN ELECTRICAL ROOM. COORDINATE EXACT MOUNTING LOCATION ON SITE WITH PROJECT MANAGER.
- (N-10) PROVIDE A PHOTOCELL (TORK #LC200 COMPLETE WITH ROOFTOP MOUNTED SENSOR UNIT #EPC1 AND TIME CLOCK #EWZ201C) TO CONTROL OUTDOOR LIGHTING. UTILIZE CCT #DC1-72. PROVIDE CONTACTOR, DVR, ETC., AS REQUIRED TO CONTROL ALL OUTDOOR LIGHTING AND SIGNAGE CIRCUITS. CONTACTOR AND TIME CLOCK CCT #DC1-72
- (N-11) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-12) COORDINATE EXACT MOUNTING LOCATION OF ENCLOSED RELAY AND TERMINATION REQUIREMENTS ON SITE WITH CONTROLS CONTRACTOR.
- (N-13) CONFIRM BREAKER AND DISCONNECT SWITCH REQUIREMENTS PRIOR TO ORDERING DISTRIBUTION.
- (N-14) PROVIDE BREAKER INDICATED FOR FUTURE DEVICE.

- ① EXISTING PUC LIQUID FILLED TYPE TRANSFORMER - 13860V/120/208V/3PH/4W
- ② EXISTING LOW VOLTAGE SERVICE ENTRANCE SWITCHBOARD - 120/208V/3PH/4W/2000A BUS/1200A RATING PLUG/SQ D QED2/50KA RMS
- ③ EXISTING DRY TYPE TRANSFORMER - 208/347/600V/3PH/4W
- ④ EXISTING DISTRIBUTION PANEL - 347/600V/3PH/4W/400A MCB/SQ D I LINE HCP/86"H X 42"W X 9.5"D C/W HINGED DOOR/COPPER BUS/50KA RMS SERIES RATED WITH MAIN BREAKER
- ⑤ EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/60A MAINS/12 CCT
- ⑥ EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/225A MAINS/42 CCT/SQ D NQOB
- ⑦ EXISTING 4' X 4' X 1' TORONTO HYDRO APPROVED METER CABINET
- ⑧ EXISTING POWER METER
- ⑨ NOT USED.
- ⑩ ENCLOSED RELAY SUPPLIED BY CONTROL CONTRACTOR AND INSTALLED BY ELECTRICAL CONTRACTOR
- ⑪ FUTURE CAR CHARGING STATION PEDESTAL MOUNTED TERMINAL BLOCKS C/W LOCAL ISOLATION BREAKERS SHOWN FOR REFERENCE PURPOSES
- ⑫ RECEPTACLE PANEL - 120/208V/3PH/4W/200A MCB/COPPER BUS/84 CCT 20"W/SQ D NQ/10KA RMS/RECESSED TRIM FACTORY PAINTED CUSTOM COLOUR (MATCH TO PAINT CHIP TO BE PROVIDED BY INTERIOR DESIGNER DURING CONSTRUCTION)

- DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
- - - - - DENOTES EXISTING TO REMAIN
- * * * * * DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR
- DENOTES CONDUIT ROUGH-IN C/W PULLSTRING PROVIDED BY ELECTRICAL CONTRACTOR FOR FUTURE SERVICES



TO RP-DC2
REFER TO DRAWING NO. E-2.0
FOR CONTINUATION

REFER TO DETAIL NO. 2 ON
DRAWING NO. E-1.5 FOR
FIXTURE SCHEDULE.

- (N-1) REFER TO ARCHITECTS DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, ETC.
- (N-2) EXACT LOCATION OF ALL DEVICES AND RESPECTIVE HEIGHTS TO BE COORDINATED ON SITE WITH ARCHITECT.
- (N-3) NEATLY LABEL ALL FLOOR MOUNTED AND WALL DEVICE BOX COVERS WITH CORRESPONDING PANEL NAMES AND CIRCUIT NUMBERS, UTILIZE SELF ADHESIVE MECHANICALLY PRINTED LABELS.
- (N-4) CIRCUIT NUMBERS MAY NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM THE ELECTRICAL ENGINEER.
- (N-5) CONFIRM BREAKER/FUSE AND RECEPTACLE/DISCONNECT REQUIREMENTS PRIOR TO INSTALLATION.
- (N-6) USE GALVANIZED RIGID STEEL CONDUIT IN ALL OUTDOOR LOCATIONS AND IN AREAS THAT ARE NOT ENVIRONMENTALLY CONTROLLED.
- (N-7) MINIMUM WIRE SIZE #10AWG FOR ALL EXTERIOR LIGHTING CIRCUITS FEEDING WALL MOUNTED FIXTURES.
- (N-8) UTILIZE PHOTOCELL PROVIDED AS PART OF THIS SCOPE OF WORK TO CONTROL ALL EXTERIOR LIGHT FIXTURES. REFER TO DRAWING NO. E-7.1 FOR ADDITIONAL REQUIREMENTS.
- (N-9) PROVIDE REQUIRED PENETRATIONS THROUGH BUILDING ENVELOP. COORDINATE WORK AND WEATHERPROOF SEALING REQUIREMENTS WITH LANDLORD.
- (N-10) ROUTING OF ALL SERVICES SHOWN IS APPROXIMATE. ELECTRICAL CONTRACTOR TO DETERMINE EXACT ROUTING AND DIMENSIONS ON SITE. OBTAIN PROPERTY MANAGEMENT APPROVAL AND STRUCTURAL ENGINEER'S APPROVAL PRIOR TO INSTALLATION OF PROPOSED ROUTING.
- (N-11) ELECTRICAL CONTRACTOR TO IDENTIFY ALL EXISTING SITE SERVICES PRIOR TO TRENCHING. COORDINATE AND PROVIDE ALL UTILITY LOCATES PRIOR TO TRENCHING INSTALLATION. PROTECT ALL EXISTING SITE SERVICES AND UTILITY SERVICES.
- (N-12) MINIMUM WIRE SIZE #4AWG FOR ALL EXTERIOR LIGHTING CIRCUITS FEEDING POST TOP MOUNTED FIXTURES AND BOLLARDS. PROVIDE ILSCO SPAR CLEAR SPLICE REDUCER KITS TO ACCOMMODATE BRANCH WIRING SIZES INDICATED.
- (N-13) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND COORDINATING ALL TRENCHING, ROUTING, PULLPIT, BACKFILLING, ETC REQUIREMENTS WITH OTHER TRADES. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS AND REQUIREMENTS.
- (N-14) HAND DIG TO EXPOSE EXISTING SERVICES.
- (N-15) ELECTRICAL CONTRACTOR TO ROUTE ALL UNDERGROUND SERVICES AROUND EXISTING SITE SERVICES TO ACCOMMODATE ALL SCOPES OF WORK SHOWN. EXISTING SITE SERVICES NOT SHOWN ON DRAWING.
- (N-16) DIRECT BURIED CABLES AND CONDUIT ROUTINGS SHOWN ARE APPROXIMATE ONLY. MODIFY AND EXTEND ROUTINGS AS REQUIRED TO ACCOMMODATE EXISTING UNDERGROUND SERVICES, NEW SERVICES AND INTERFERENCES. ALL ROUTINGS TO BE MARKED ON SITE, COORDINATED WITH AND APPROVED BY ARCHITECT, STRUCTURAL ENGINEER AND ESA FIELD INSPECTOR PRIOR TO CONSTRUCTION.
- (N-17) TERMINATE CONDUITS FOR FUTURE CAR CHARGING STATIONS APPROXIMATELY 24" ABOVE FINISHED SURFACE. CAP CONDUIT AND MAKE SAFE FOR FUTURE USE. COORDINATE EXACT REQUIREMENTS ON SITE WITH ARCHITECT.
- (N-18) FINAL LOCATIONS OF CCTV CAMERAS RELOCATED AS PART OF THIS SCOPE OF WORK TO BE CONFIRMED ONSITE WITH OWNER.
- (N-19) ELECTRICAL CONTRACTOR TO CHANGE TAP SETTING TO REDUCE VOLUME OF HORN INDICATED.

ELECTRICAL CONTRACTOR'S BASE BID PRICE SHALL INCLUDE FOR THE COSTS OF LOCATES, HYDROVAC TRUCKS AND FOR ALL REQUIRED CIVIL WORK INCLUDING PROVIDING AND COORDINATING ALL TRENCHING, ROUTING, BACKFILLING, ETC..

TIE IN EXTERIOR LIGHT FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK INTO EXISTING PHOTOCELL CIRCUIT. PROVIDE ADDITIONAL CONTACTORS AND TIE INTO EXISTING CONTROL POWER / CONTROL CIRCUIT AS REQUIRED TO ACCOMMODATE NEW LIGHTING BRANCH CIRCUITS.

INSULATION FOR ALL EXTERIOR WIRING INCLUDING WIRING IN DIRECT BURIED RACEWAYS SHALL BE RWU90.

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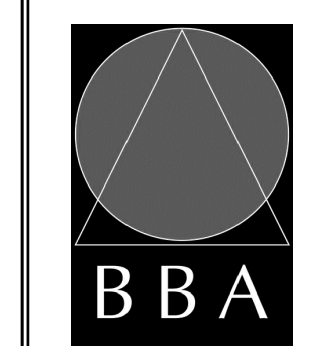


NO.	REVISIONS	DATE	BY

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
65 Grace Street Toronto

DRAWING:
ELECTRICAL SITE PLAN

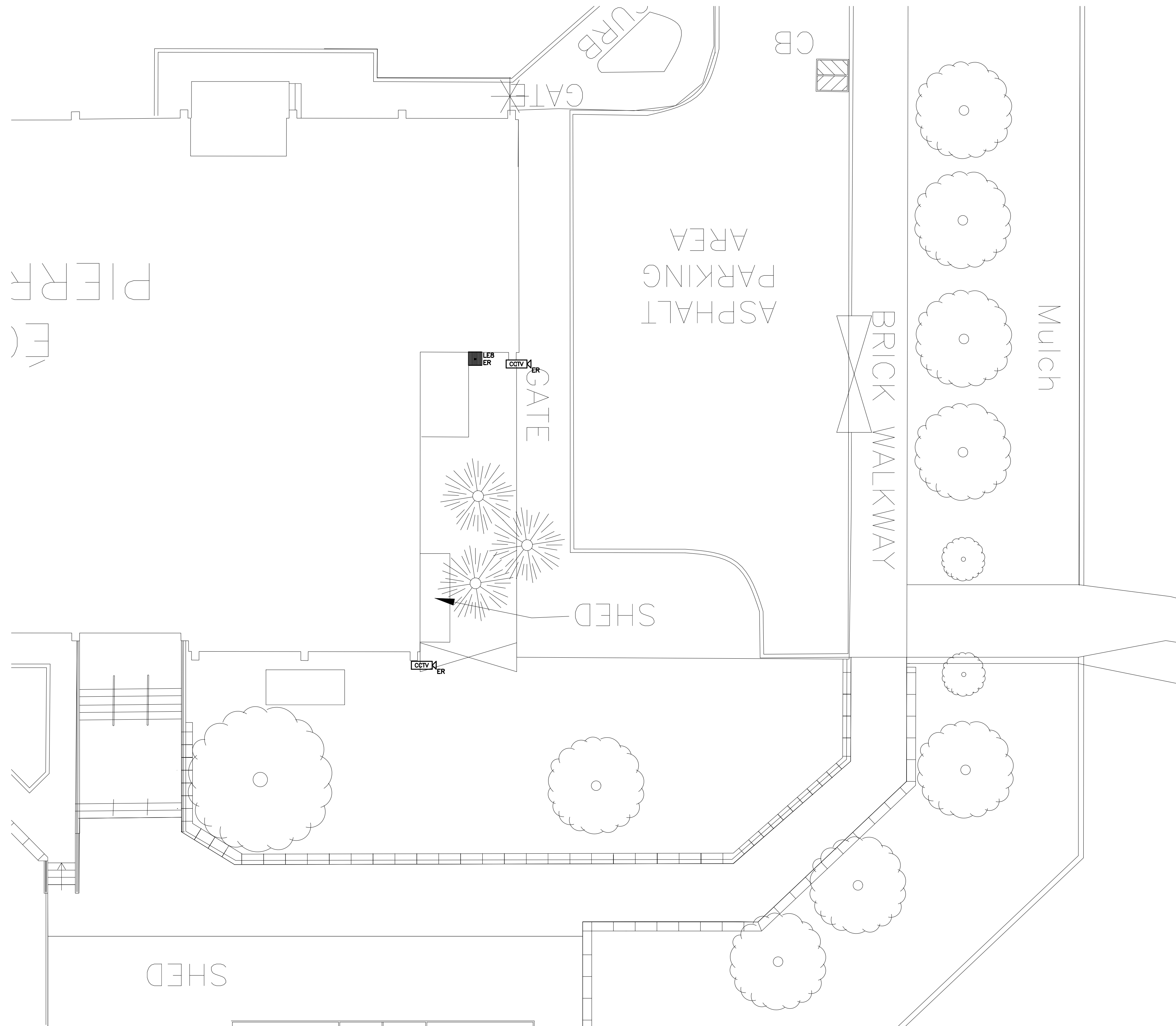


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PROJECT NO: **23029** DRAWING NO: **E-8.1**



- (N-1) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF ONE (1) ADDITIONAL FIXTURE OVER AND ABOVE THOSE SHOWN ON DRAWING NO. E-8.2.
- (N-2) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.

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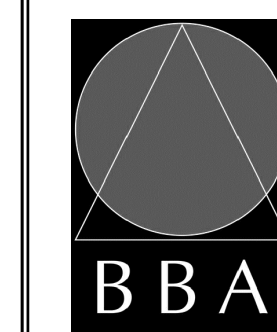


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**ELECTRICAL SITE
 DEMOLITION PLAN**



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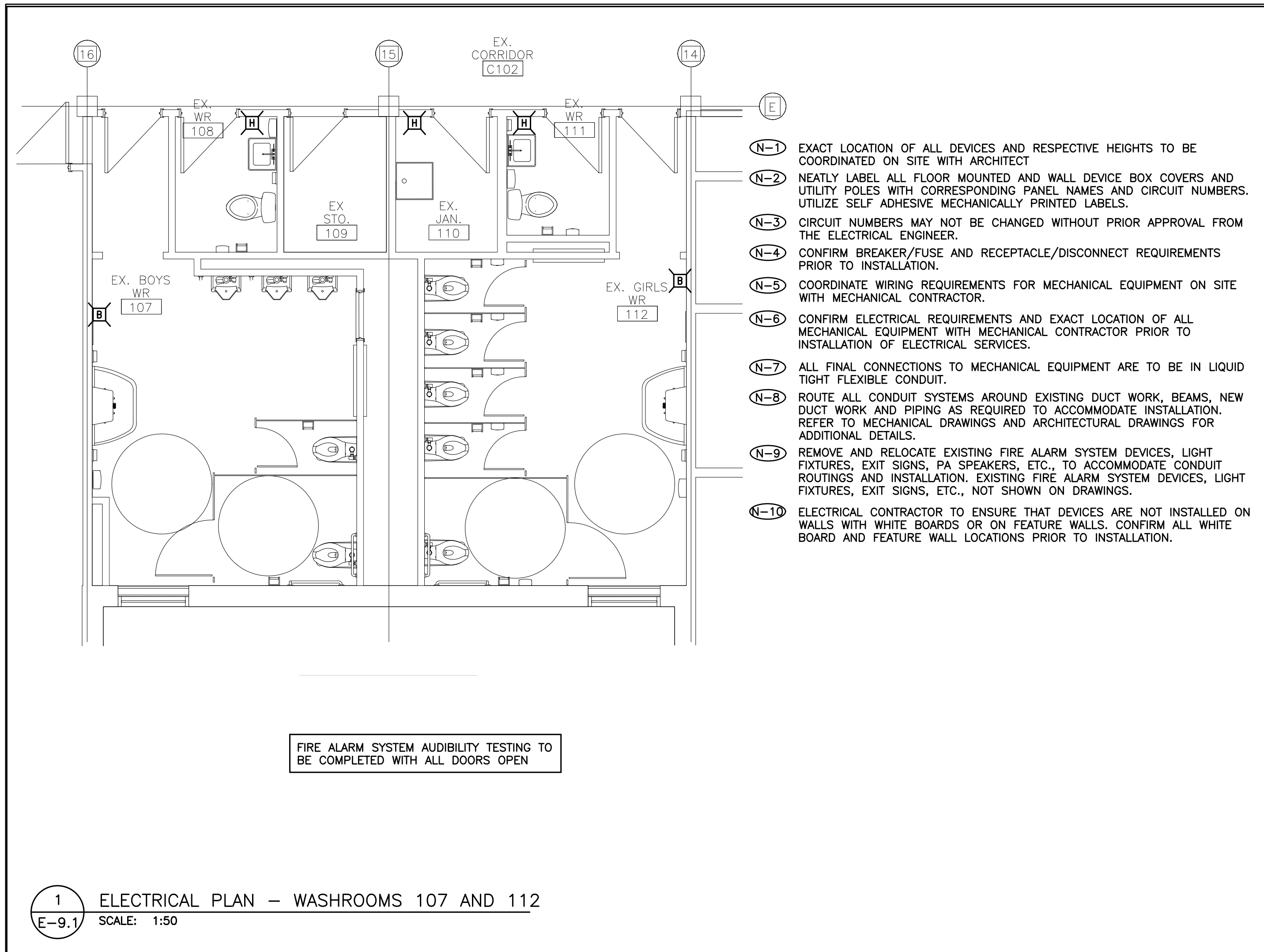
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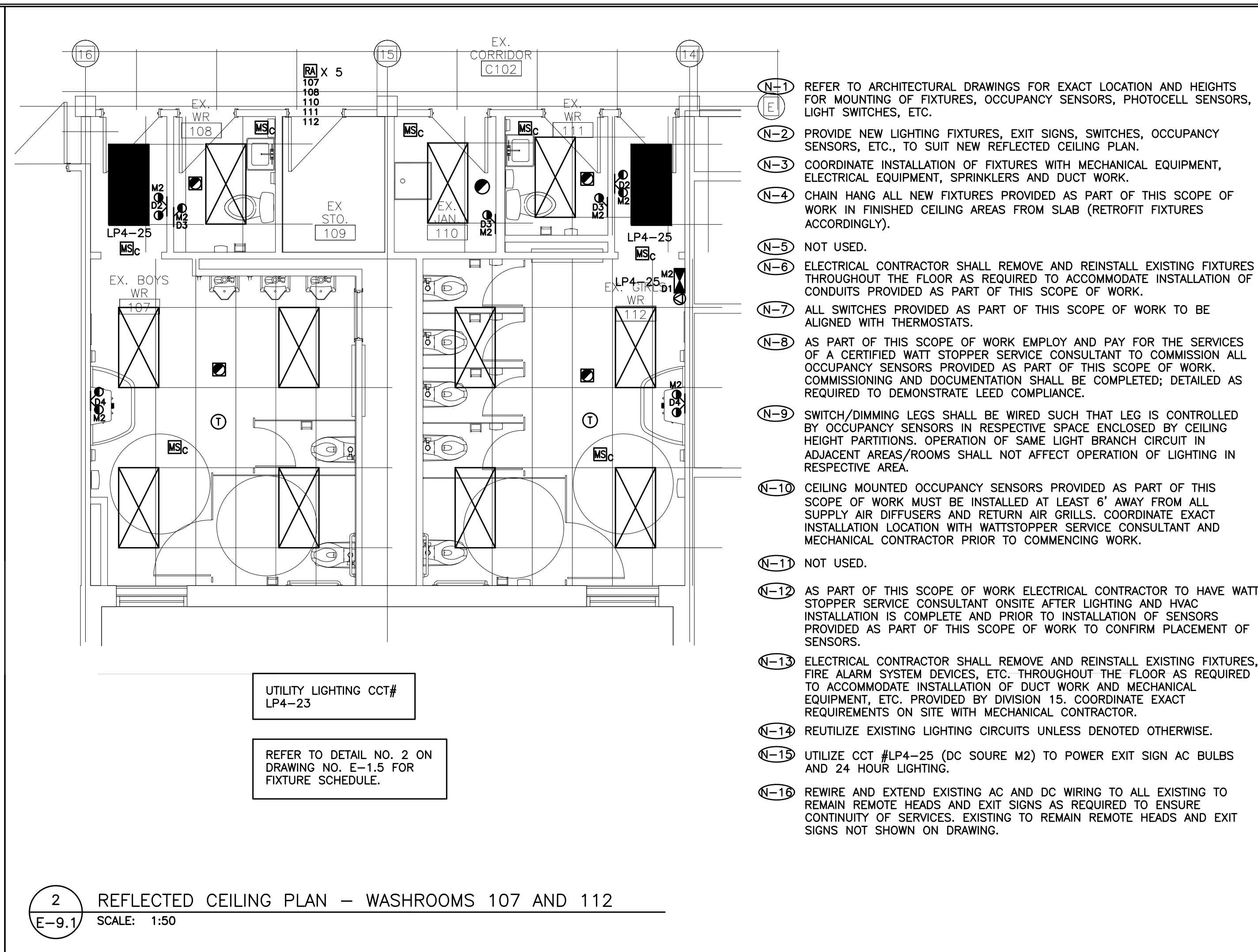
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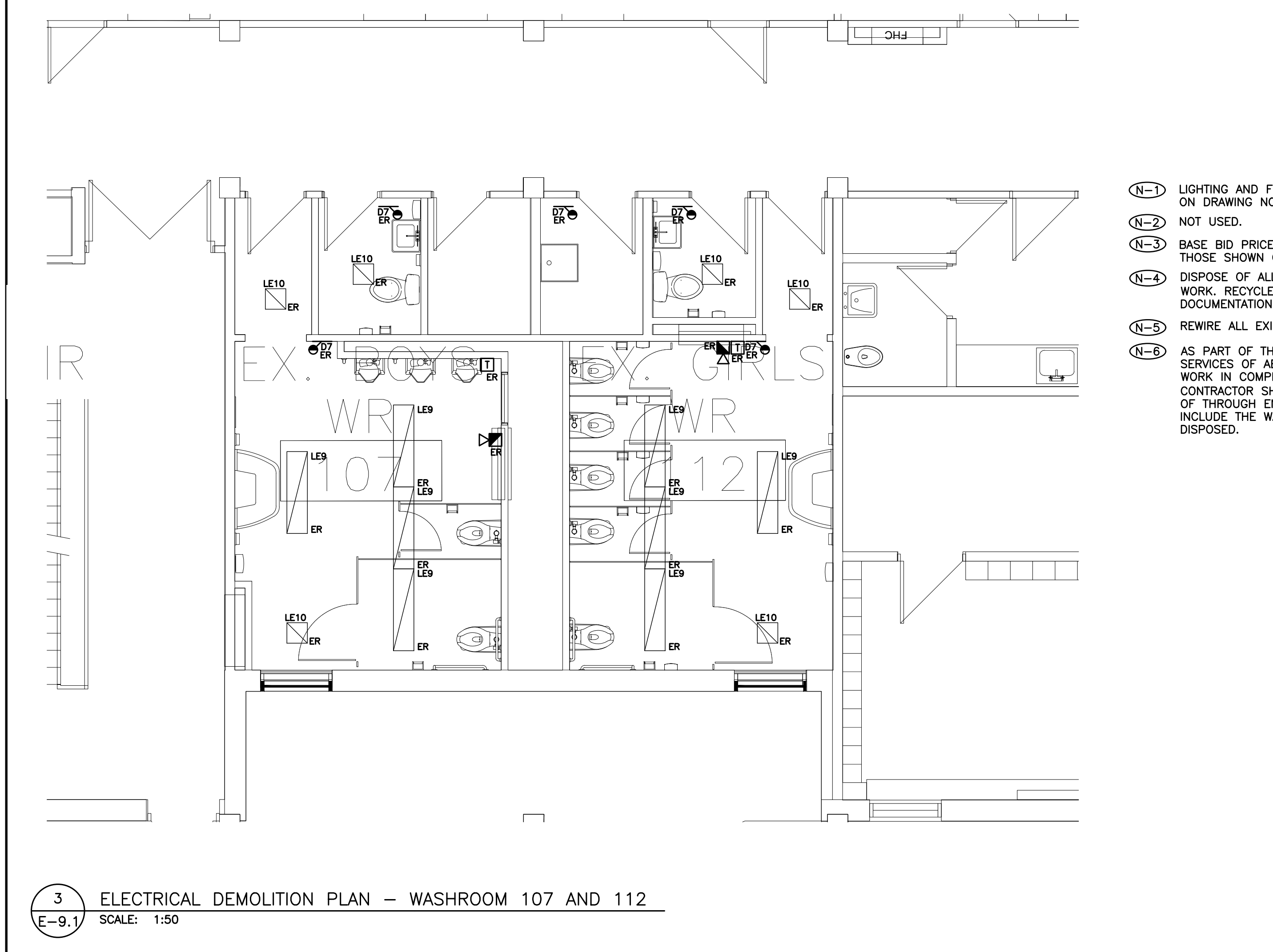
PROJECT NO: **23029**
 DRAWING NO: **E-8.2**



1 ELECTRICAL PLAN – WASHROOMS 107 AND 112
E-9.1 SCALE: 1:50



2 REFLECTED CEILING PLAN – WASHROOMS 107 AND 112
E-9.1 SCALE: 1:50



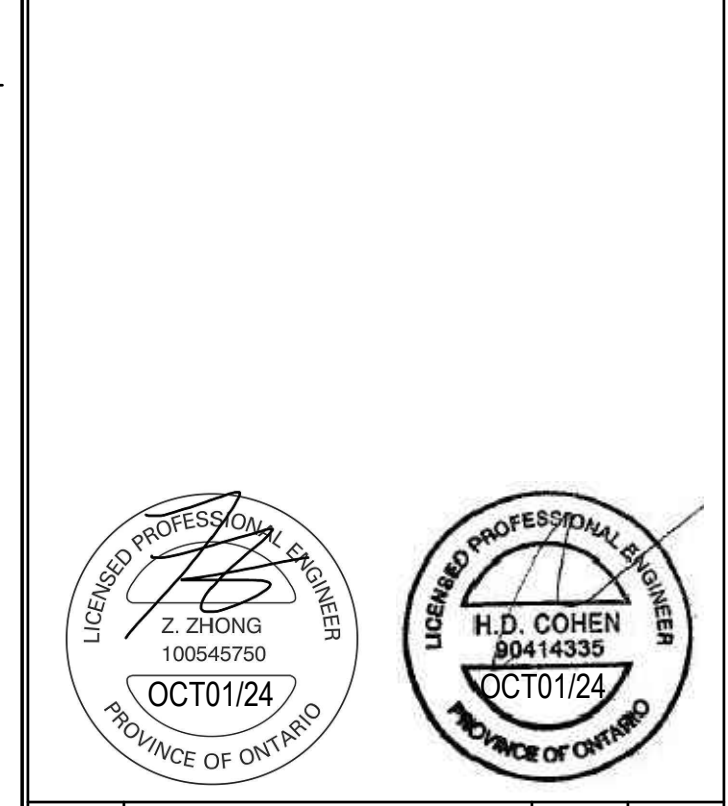
3 ELECTRICAL DEMOLITION PLAN – WASHROOM 107 AND 112
E-9.1 SCALE: 1:50

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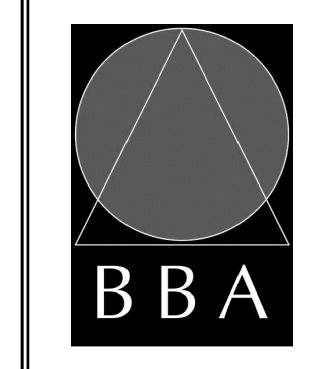


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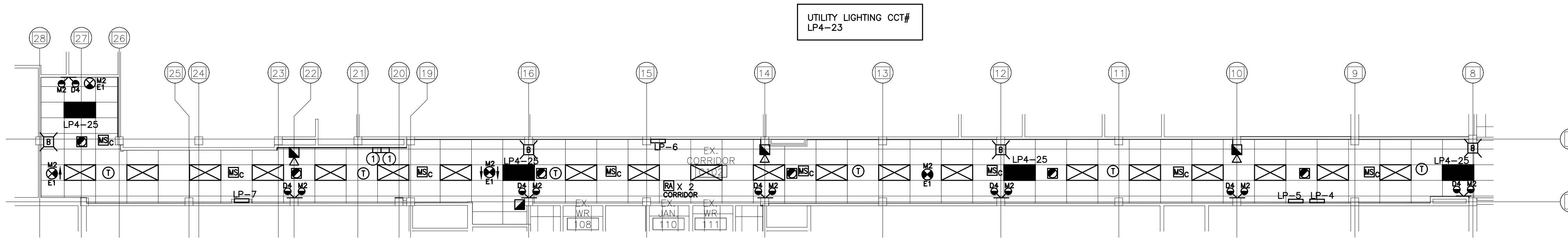
DRAWING:
**ELECTRICAL PLANS
WASHROOMS 107 & 112**



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FIRE ALARM SYSTEM AUDIBILITY TESTING TO
 BE COMPLETED WITH ALL DOORS OPEN

REFER TO DETAIL NO. 2 ON
 DRAWING NO. E-1.5 FOR
 FIXTURE SCHEDULE.

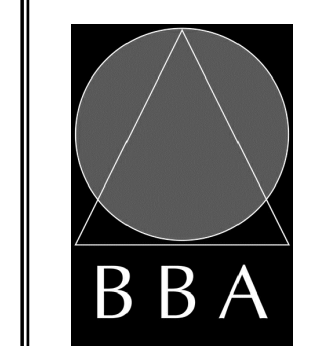


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PROJECT:
GARDARIE LA FARANDOLE

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DRAWING:
**ELECTRICAL PLANS
 CORRIDOR C101 & C102**



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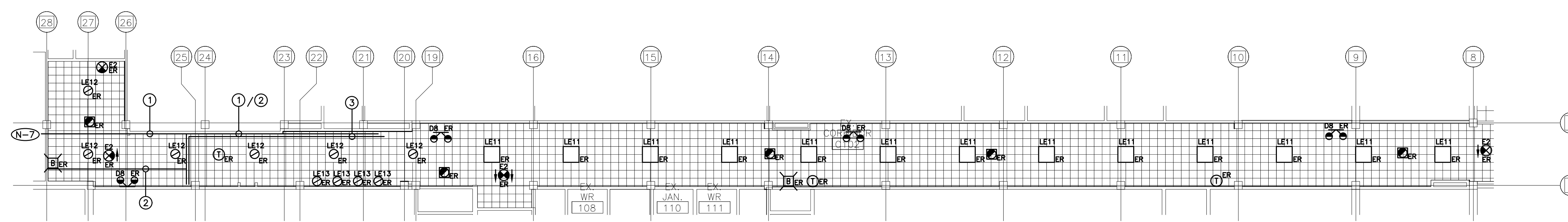
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PROJECT NO: **23029**
 DRAWING NO: **E-9.2**

- (N-1) REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHTS FOR MOUNTING OF FIXTURES, OCCUPANCY SENSORS, PHOTOCELL SENSORS, LIGHT SWITCHES, ETC.
- (N-2) PROVIDE NEW LIGHTING FIXTURES, EXIT SIGNS, SWITCHES, OCCUPANCY SENSORS, ETC., TO SUIT NEW REFLECTED CEILING PLAN.
- (N-3) COORDINATE INSTALLATION OF FIXTURES WITH MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, SPRINKLERS AND DUCT WORK.
- (N-4) CHAIN HANG ALL NEW FIXTURES PROVIDED AS PART OF THIS SCOPE OF WORK IN FINISHED CEILING AREAS FROM SLAB (RETROFIT FIXTURES ACCORDINGLY).
- (N-5) ELECTRICAL CONTRACTOR TO ENSURE THAT DEVICES ARE NOT INSTALLED ON WALLS WITH WHITE BOARDS OR ON FEATURE WALLS. CONFIRM WHITE BOARD AND FEATURE WALL LOCATIONS PRIOR TO INSTALLATION.
- (N-6) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-7) ALL SWITCHES PROVIDED AS PART OF THIS SCOPE OF WORK TO BE ALIGNED WITH THERMOSTATS.
- (N-8) AS PART OF THIS SCOPE OF WORK EMPLOY AND PAY FOR THE SERVICES OF A CERTIFIED WATT STOPPER SERVICE CONSULTANT TO COMMISSION ALL OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK. COMMISSIONING AND DOCUMENTATION SHALL BE COMPLETED; DETAILED AS REQUIRED TO DEMONSTRATE LEED COMPLIANCE.
- (N-9) SWITCH/DIMMING LEGS SHALL BE WIRED SUCH THAT LEG IS CONTROLLED BY OCCUPANCY SENSORS IN RESPECTIVE SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS. OPERATION OF SAME LIGHT BRANCH CIRCUIT IN ADJACENT AREAS/ROOMS SHALL NOT AFFECT OPERATION OF LIGHTING IN RESPECTIVE AREA.
- (N-10) CEILING MOUNTED OCCUPANCY SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE INSTALLED AT LEAST 6" AWAY FROM ALL SUPPLY AIR DIFFUSERS AND RETURN AIR GRILLS. COORDINATE EXACT INSTALLATION LOCATION WITH WATTSTOPPER SERVICE CONSULTANT AND MECHANICAL CONTRACTOR PRIOR TO COMMENCING WORK.
- (N-11) ALL FIXTURES TYPE "A1" UNLESS DENOTED OTHERWISE.
- (N-12) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR TO HAVE WATT STOPPER SERVICE CONSULTANT ONSITE AFTER LIGHTING AND HVAC INSTALLATION IS COMPLETE AND PRIOR TO INSTALLATION OF SENSORS PROVIDED AS PART OF THIS SCOPE OF WORK TO CONFIRM PLACEMENT OF SENSORS.
- (N-13) ELECTRICAL CONTRACTOR SHALL REMOVE AND REINSTALL EXISTING FIXTURES, FIRE ALARM SYSTEM DEVICES, ETC. THROUGHOUT THE FLOOR AS REQUIRED TO ACCOMMODATE INSTALLATION OF DUCT WORK AND MECHANICAL EQUIPMENT, ETC. PROVIDED BY DIVISION 15. COORDINATE EXACT REQUIREMENTS ON SITE WITH MECHANICAL CONTRACTOR.
- (N-14) REUTILIZE EXISTING LIGHTING CIRCUITS UNLESS DENOTED OTHERWISE.
- (N-15) UTILIZE CCT #LP4-25 (DC SOURCE M2) TO POWER EXIT SIGN AC BULBS AND 24 HOUR LIGHTING.
- (1) EXISTING PUBLIC ADDRESS AND COMMUNICATIONS JUNCTION BOX TO REMAIN

1
E-9.2
 ELECTRICAL PLAN – CORRIDOR C101 AND C102
 SCALE: 1:100

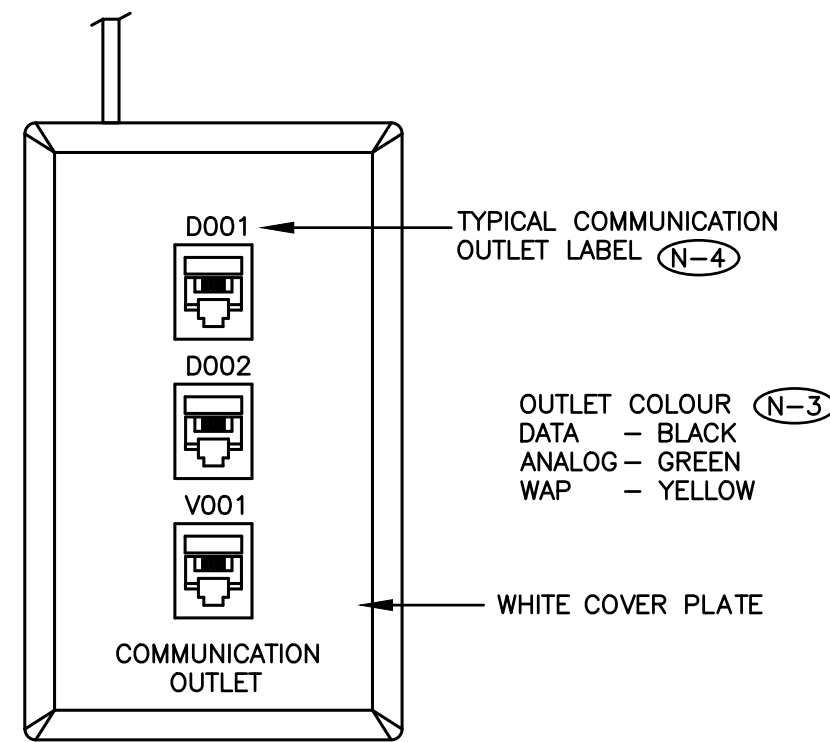


REFER TO DETAIL NO. 2 ON
 DRAWING NO. E-1.5 FOR
 FIXTURE SCHEDULE.

- (N-1) LIGHTING AND FIRE ALARM LAYOUT SHOWS EXISTING REFLECTED CEILING PLAN ONLY. REFER TO DETAIL NO. 1 ON DRAWING NO. E-9.2 FOR NEW LAYOUT AND FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- (N-2) NOT USED.
- (N-3) BASE BID PRICE SHALL INCLUDE FOR THE REMOVAL OF FOUR (4) ADDITIONAL FIXTURES OVER AND ABOVE THOSE SHOWN ON DETAIL NO. 2 ON DRAWING NO. E-9.2.
- (N-4) DISPOSE OF ALL FIXTURES (EXCLUDING BASE BUILDING FIXTURES) REMOVED AS PART OF THIS SCOPE OF WORK. RECYCLE ALL APPLICABLE COMPOUNDS AS DETAILED IN "GREEN MEASURES" REQUIREMENTS. PROVIDE DOCUMENTATION SUPPORTING RECYCLING MEASURES.
- (N-5) REWIRE ALL EXISTING TO REMAIN FIXTURES TO ENSURE CONTINUITY OF SERVICES.
- (N-6) AS PART OF THIS SCOPE OF WORK ELECTRICAL CONTRACTOR MUST PROCURE (ORDER AND PAY FOR) THE SERVICES OF AEVITAS TO DISPOSE OF ALL LAMPS AND BALLASTS REMOVED AS PART OF THIS SCOPE OF WORK IN COMPLIANCE WITH MINISTRY STANDARDS AND ENVIRONMENTALLY SAFE METHODS. ELECTRICAL CONTRACTOR SHALL PROVIDE A SUBMISSION (LETTER) STATING THAT LAMPS AND BALLASTS WERE DISPOSED OF THROUGH ENVIRONMENTALLY SAFE METHODS. THE SUBMISSION BY THE ELECTRICAL CONTRACTOR SHALL INCLUDE THE WAYBILL, DETAILING LOCATION OF DISPOSAL AND QUANTITY OF LAMPS AND BALLASTS THAT WERE DISPOSED.
- (N-7) AS PART OF THE BASE BID PRICE TRACE EXISTING COMMUNICATIONS CONDUITS INDICATED TO BE REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK. PROVIDE 150' 3/4" CONDUITS. VERIFY AND CONFIRM EXISTING CONDUIT REQUIREMENTS INDICATED PRIOR TO ORDERING AND INSTALLATION OF NEW COMMUNICATIONS CONDUITS PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT FINDINGS TO ENGINEER PRIOR TO ORDERING DISTRIBUTION.
- (1) EXISTING COMMUNICATIONS CONDUIT C/W CABLES TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR. NEW COMMUNICATIONS CABLES PROVIDED BY COMMUNICATIONS CONTRACTOR.
- (2) EXISTING CEILING MOUNTED RACEWAY FOR FIRE ALARM CIRCUITS TO BE REMOVED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR
- (3) EXISTING CEILING MOUNTED RACEWAY FOR BRANCH CIRCUITS TO BE REMOVED AND REINSTALLED AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR. REFER TO DETAIL NO. 4 ON DRAWING NO. E-1.8 FOR ADDITIONAL REQUIREMENTS.

2
E-9.2
 ELECTRICAL DEMOLITION PLAN – CORRIDOR C101 AND C102
 SCALE: 1:100

3/4" CONDUIT TO 4" ABOVE LAY-IN CEILING (CONDUIT AND BACKBOX PROVIDED BY ELECTRICAL CONTRACTOR).



▽ / ▽ / (A) / (B)

- (N-1) PROVIDE BLANK INSERT FOR NON-UTILIZED OPENINGS. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF CABLES AND OUTLETS AT EACH LOCATION.
- (N-2) UTILIZE BLUE CABLES FOR DATA AND GREY CABLES ANALOG.
- (N-3) CONFIRM OUTLET COLOUR AND ORIENTATION WITH CONSULTANT PRIOR TO ORDERING MATERIALS.
- (N-4) CONFIRM LABELING SCHEME WITH CONSULTANT PRIOR TO PREPARING LABELS.

1 TYPICAL WALL MOUNTED OFFICE GROUP OUTLET DETAIL
C-1.1 SCALE: NTS

PATCH CORD LENGTH (N-1)	1'	5'	7'	10'	15'
CAT6 COPPER PATCH CORDS IT ROOM END (N-3)	70	0	0	0	0
CAT6 COPPER PATCH CORDS WORKSTATION END	0	0	40	30	0

PATCH CORD COLOUR CODING:
 INTERCONNECTION OF NETWORKING EQUIPMENT - RED
 TELEPHONE / VOIP - GREEN
 BAS / CHUBB SECURITY - ORANGE
 SECURITY CAMERAS - BLUE
 WIRELESS ANTENNA - WHITE
 ALL OTHER NETWORK REQUIREMENTS - YELLOW

- (N-1) SUPPLY AND INSTALL QUANTITY OF PATCH CORDS INDICATED IN SCHEDULE. CONFIRM EXACT LENGTH WITH CLIENT PRIOR TO ORDERING. AT EQUIPMENT RACK END AND EQUIPMENT CABINET END PATCH CORD LENGTHS SHALL BE SELECTED TO MINIMIZE SLACK.
- (N-2) AS PART OF THIS SCOPE OF WORK COMMUNICATIONS CONTRACTOR SHALL PATCH ALL OWNER SUPPLIED SERVERS, SWITCHES, NETWORK GEAR, GATEWAYS, ETC. PATCHING SCHEDULE TO BE PROVIDED BY OWNER DURING CONSTRUCTION.
- (N-3) IDENTIFY PATCH CORDS AT BOTH ENDS WITH MECHANICALLY PRINTED SELF-ADHESIVE LABELS.
- (N-4) PROVIDE AN ADDITIONAL FIVE (5) 1' RED PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-5) PROVIDE AN ADDITIONAL TEN (10) 1' YELLOW PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-6) PROVIDE AN ADDITIONAL TEN (10) 1' LILAC PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.
- (N-7) PROVIDE AN ADDITIONAL TWENTY-FIVE (25) 10' LILAC PATCH CORDS TO BE HANDED OVER TO CLIENT AT END OF PROJECT.

2 PATCH CORD SCHEDULE
C-1.1 SCALE: NTS

1. SUBSTITUTES ARE NOT PERMITTED FOR ALL SPECIFIED PRODUCTS.
2. SHOP DRAWINGS ARE REQUIRED FOR ALL PRODUCTS SPECIFIED FOR THIS PROJECT INCLUDING BUT NOT LIMITED TO EQUIPMENT CABINET, PATCH PANELS, HORIZONTAL CABLES, BACKBONE CABLES, TERMINATION HARDWARE, LABELS AND FACEPLATES.
3. COMMUNICATIONS CONTRACTOR AND ALL SUBCONTRACTORS MUST READ AND COMPLY WITH COMMUNICATIONS SPECIFICATIONS (ISSUED AS A SEPARATE DOCUMENT).
4. INSTALLATION OF ALL DEVICES AND SERVICES MUST COMPLY WITH ALL LOCAL SEISMIC RESTRAINT REQUIREMENTS.
5. ALL SCOPES OF WORK REQUIRED TO BE COMPLETED WITHIN OCCUPIED AREAS, INCLUDING WORK RELATED TO DEFICIENCIES MUST BE COMPLETED BETWEEN 4PM AND 11PM DURING THE WEEK. REMOVAL AND REINSTALLATION OF CEILING TILES IN THE OCCUPIED AREAS TO ACCOMMODATE ALL SCOPES OF WORK SHALL BE PROVIDED BY THE COMMUNICATIONS CONTRACTOR.
6. AS BUILT DRAWING REQUIREMENTS:
 - AS BUILT DRAWINGS TO BE PREPARED AND SUBMITTED IN AUTOCAD FORMAT BY THE COMMUNICATIONS CONTRACTOR.
 - ALL DEMOLITION SCOPES OF WORK ARE TO BE ERASED FROM AS BUILT DRAWINGS.
 - ROUTING OF MAIN STATION CABLING RUNS, BACKBONE CABLES, ETC. TO BE SHOWN ON AS BUILT DRAWINGS. REFER TO DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
7. PROJECT WILL BE BUILT OUT OVER A NUMBER OF CONSTRUCTION PHASES. REFER TO ARCHITECTURAL DRAWINGS AND CONSTRUCTION SCHEDULE FOR ADDITIONAL REQUIREMENTS. ENSURE NON-CONSTRUCTION AREAS ARE NOT IMPACTED BY RESPECTIVE CONSTRUCTION PHASE, THROUGHOUT CONSTRUCTION.

CABLING COLOUR CODING FOR VARIOUS SYSTEMS IS AS FOLLOWS:
 BLUE - SECURITY CAMERA CCTV/COMMUNICATIONS DATA
 GREY - COMMUNICATIONS VOICE (ANALOG)
 YELLOW - MISCELLANEOUS NETWORK SYSTEMS
 ORANGE - BAS AND ACCESS CONTROL
 WHITE - WIRELESS ANTENNA

LEGEND

- (A) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE.
- (B) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) AND ANALOG (1ST) OUTLETS C/W TWO (2) 4 PAIR CAT6 UTP CABLES.
- (F) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) OUTLET C/W ONE (1) 4 PAIR CAT5E UTP CABLE.
- (G) WALL MOUNTED OFFICE GROUP CONSISTING OF DATA (1ST) AND ANALOG (1ST) OUTLETS C/W TWO (2) 4 PAIR CAT5E UTP CABLES. PROVIDE TWO (2) RJ45 TO CEILING CONNECTOR.
- (U) CEILING MOUNTED WAP GROUP CONSISTING OF DATA (1ST) AND DATA (2ND) OUTLETS C/W TWO (2) 4 PAIR CAT6 UTP CABLES. PROVIDE TWO (2) RJ45 TO CEILING CONNECTOR.
- ▽ DATA OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE
- ▽ ANALOG OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE
- CCTV WALL/CEILING MOUNTED CCTV CAMERA OUTLET CONSISTING OF DATA (1ST) OUTLET C/W ONE (1) 4 PAIR CAT6 UTP CABLE. PROVIDE ONE (1) RJ45 TO CEILING CONNECTOR. 'C01' DENOTES CABLE ROUTED FROM EQUIPMENT CABINET 'C01'.
- E DENOTES EXISTING DEVICE TO REMAIN
- ER DENOTES EXISTING DEVICE TO BE REMOVED BACK TO SOURCE
- R DENOTES RELOCATED OFFICE GROUP. DISCONNECT EXISTING OUTLETS AND PULL CABLES OUT FROM EXISTING DEVICE TO CEILING SPACE. REFEED NEW DEVICE INDICATED. PROVIDE NEW OUTLETS AND FACEPLATES. TERMINATE, LABEL AND TEST ALL CABLES.
- 6MMF DENOTES 6 STRAND MULTIMODE FIBER OPTIC CABLE.

DRAWING LIST

C-1.1	COMMUNICATIONS LEGEND AND DETAILS
C-1.2	COMMUNICATIONS DETAILS
C-2.0	PARTIAL COMMUNICATIONS FACILITY PLANS
C-2.1	COMMUNICATIONS PLAN
C-5.1	COMMUNICATIONS DEMOLITION PLAN

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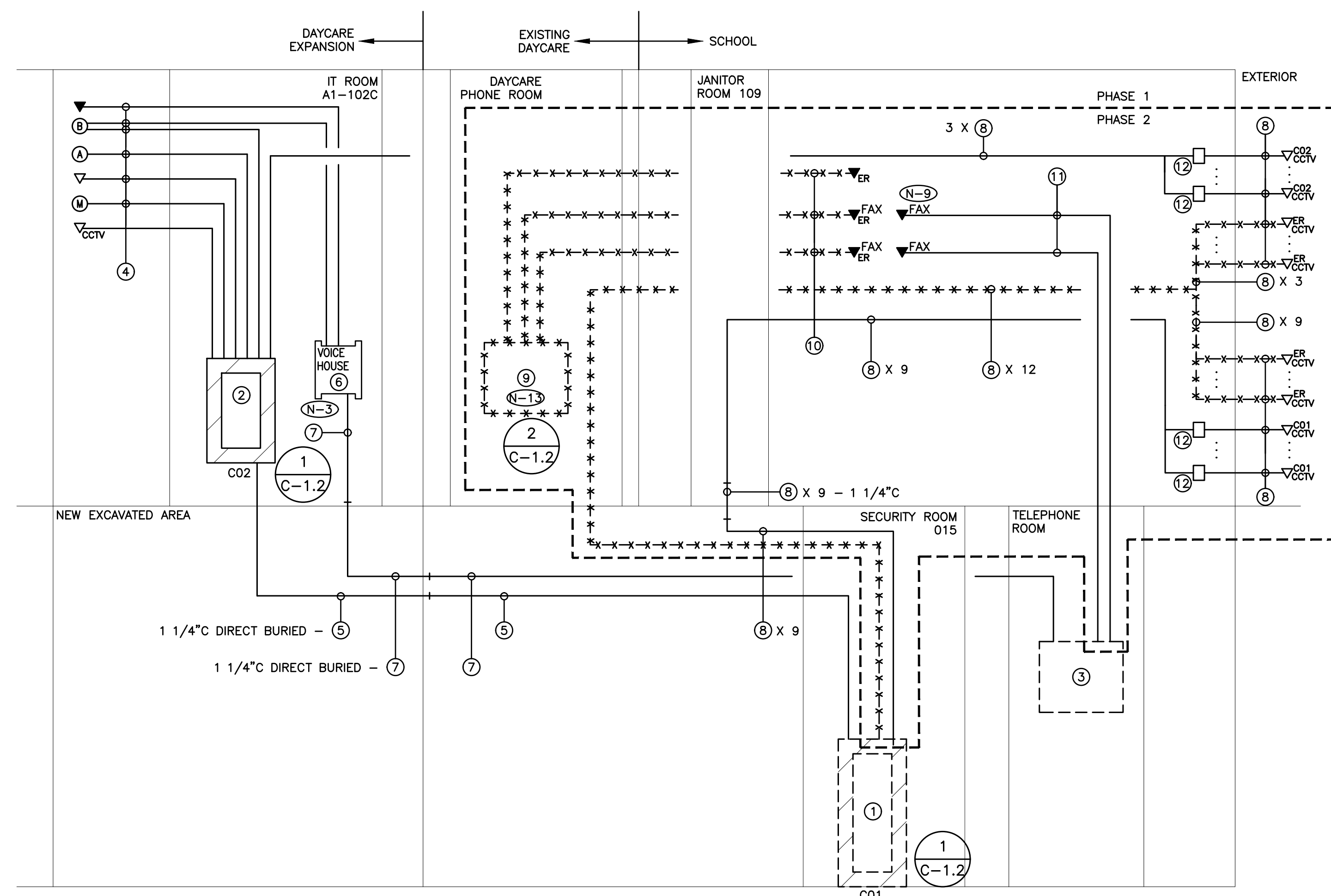


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- (N-1) RISER IS DIAGRAMMATIC ONLY.
- (N-2) REFER TO COMMUNICATIONS PLANS FOR LOCATION OF EQUIPMENT RACKS.
- (N-3) PROVIDE PUNCH DOWN BLOCK ASSEMBLY CONSISTING OF BELDEN QMBX12E MOUNT AND QCBX1A CONNECTORS. PROVIDE QUANTITY OF CONNECTORS REQUIRED TO TERMINATE ALL CABLES PROVIDED AS PART OF THIS SCOPE OF WORK.
- (N-4) PROVIDE A TOTAL OF 10 CROSS CONNECTS. CROSS CONNECT SCHEDULE TO BE PROVIDED BY PROJECT MANAGER ON AN AD HOC BASIS DURING CONSTRUCTION.
- (N-5) NOT USED.
- (N-6) PROVIDE DEDICATED FLOOR AND WALL PENETRATIONS FOR ENTIRE ROUTING OF FIBER OPTIC CABLES, VOICE RISER CABLES, VOICE HOUSE CABLES AND DATA INTERLINK CABLES. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-7) SUPPORT CABLES TIGHT TO WALLS/CEILING SLAB UTILIZING CABLE TIE MOUNTS AND VELCRO TIE WRAPS.
- (N-8) CONDUIT RACEWAYS PROVIDED BY ELECTRICAL CONTRACTOR. ALL CONDUITS SHALL BE C/W BUSHINGS AND RUBBERIZED GROMMETS. ALL CONDUITS TO BE EMT. EMT COUPLING AND CONNECTORS SHALL BE T&B STEEL; SET SCREW TYPE. PROVIDE PULLSTRING IN ALL CONDUITS FOR FUTURE USE.
- (N-9) AS PART OF THIS SCOPE OF WORK REPLACE TWO (2) ANALOG OUTLETS EACH C/W ONE (1) 4 PAIR CAT6 UTP CABLE (250' RUNS PER WALL MOUNTED OUTLET) FOR FAX MACHINES. COORDINATE LOCATIONS OF ANALOG OUTLETS WITH OWNER.
- (N-10) REFER TO DEMOLITION FLOOR PLANS FOR ADDITIONAL REQUIREMENTS.
- (N-11) CEMENT AND SEAL ALL FLOOR OPENINGS WHERE CABLES ARE REMOVED AS PART OF THIS SCOPE OF WORK.
- (N-12) AS PART OF THE BASE BID PRICE COMMUNICATIONS CONTRACTOR SHALL ALLOW FOR 24 HOURS INVESTIGATION TIME TO CONFIRM ALL EXISTING CABLE ROUTES FOR CABLES DETAILED ON THIS RISER DIAGRAM. REPORT FINDINGS TO HCC ENGINEERING FOR REVIEW.
- (N-13) PRIOR TO REMOVING CABLES TRACE AND CONFIRM THAT THERE ARE NO ACTIVE CONNECTIONS / CIRCUITS. REPORT ALL ACTIVE CONNECTIONS / CIRCUITS TO HCC PRIOR TO DEMOLITION.

- (1) EXISTING NETWORK EQUIPMENT CABINET
- (2) WALL MOUNTED NETWORK EQUIPMENT CABINET PROVIDED AS PART OF THIS SCOPE OF WORK
- (3) EXISTING VOICE MDF PLYWOOD BACKBOARD
- (4) TYPICAL 4 PAIR CAT 6 UTP DATA CABLES PROVIDED AS PART OF THIS SCOPE OF WORK
- (5) 6MMF OM4 PLENUM RATED INTERLOCKING ARMORED INTERLINK CABLE PROVIDED AS PART OF THIS SCOPE OF WORK
- (6) PUNCH DOWN BLOCK ASSEMBLIES CONSISTING OF 300 PAIR MOUNTS AND 1A CONNECTOR BLOCKS
- (7) 25 PAIR CAT 3 UTP PLENUM RATED VOICE HOUSE CABLE
- (8) TYPICAL 4 PAIR CAT 6 UTP DATA CABLE FOR CCTV CAMERA
- (9) EXISTING VOICE IDF BACKBOARD
- (10) EXISTING 4 PAIR CAT 5E UTP ANALOG CABLES
- (11) TYPICAL 4 PAIR CAT 6 UTP ANALOG CABLE FOR FAX MACHINES
- (12) SURGE PROTECTOR PROVIDED AS PART OF THIS SCOPE OF WORK - SURGEGATE CAT6-75/POE-RJ45

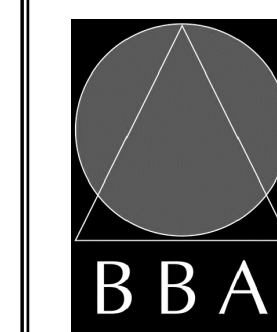
————— DENOTES NEW PROVIDED BY COMMUNICATIONS CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 * * * * * DENOTES EXISTING TO BE REMOVED BY COMMUNICATIONS CONTRACTOR

3 COMMUNICATIONS RISER DIAGRAM
C-1.1 SCALE: NTS

PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**COMMUNICATIONS
 LEGEND AND DETAILS**



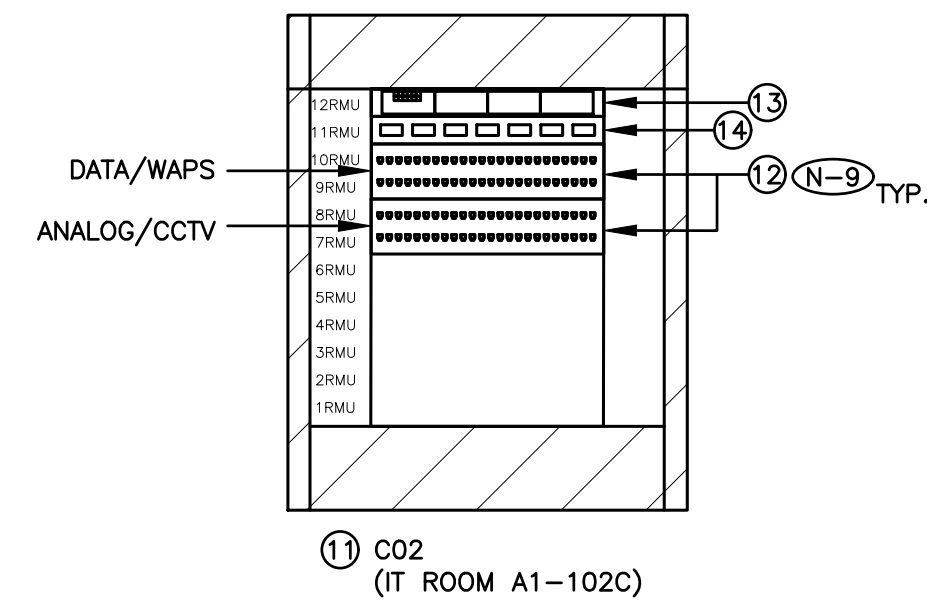
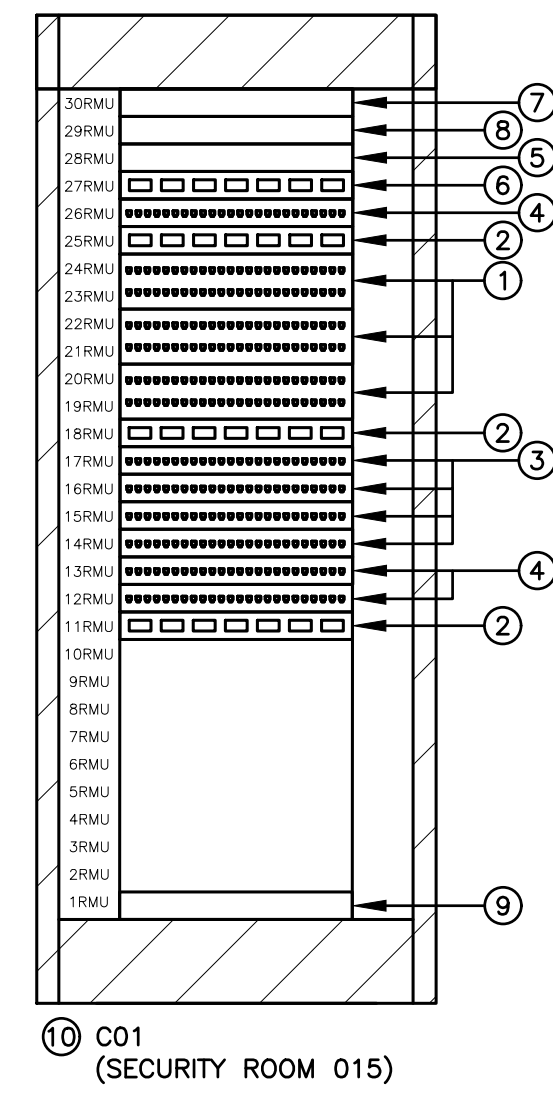
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CHECKED BY:	PC	INITIAL:	
DATE:	FEB 2023		
SCALE:	AS SHOWN		
FILE:			

PROJECT NO: **23029**
 DRAWING NO: **C-1.1**



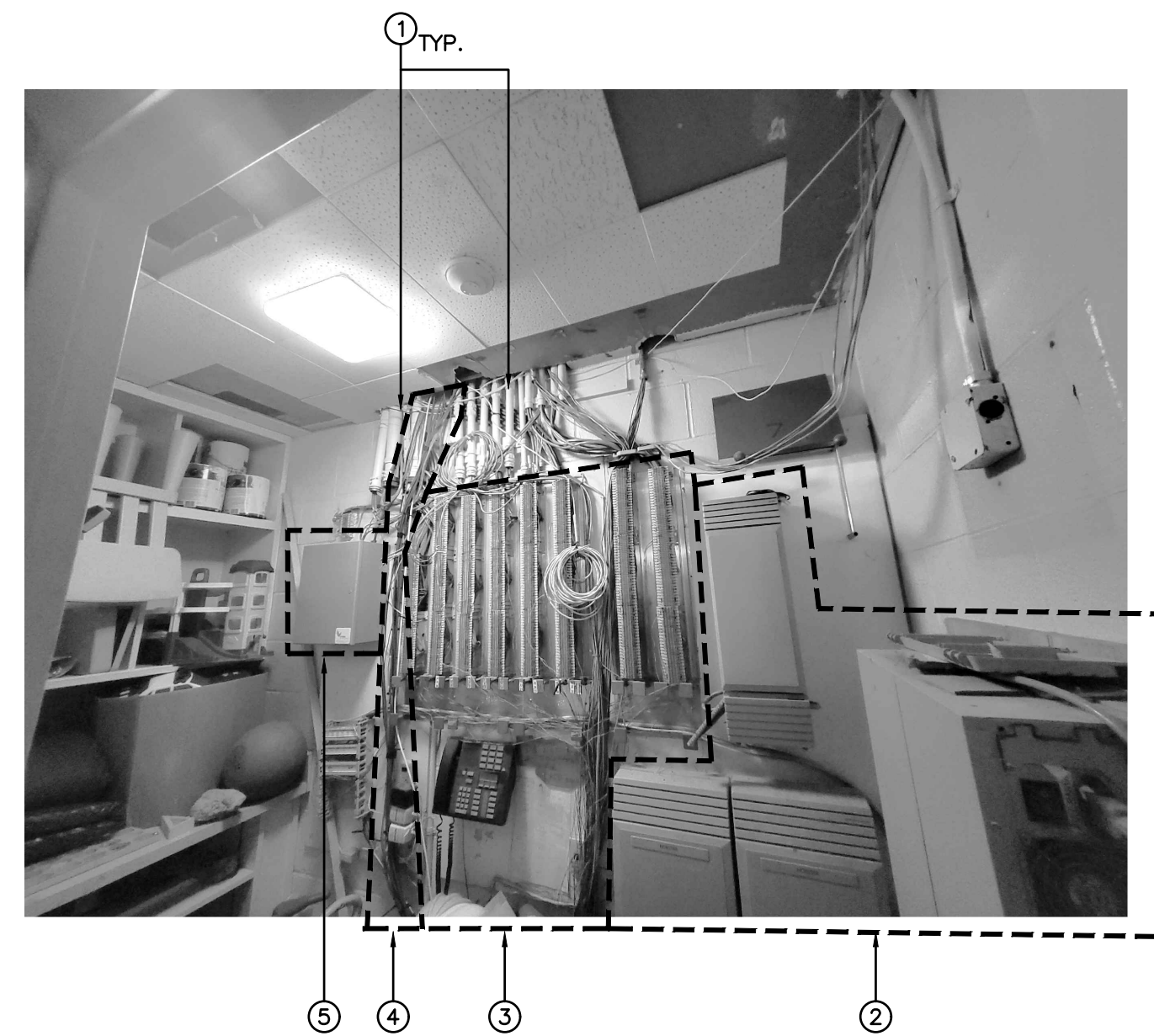
- (N-1) DETAIL IS DIAGRAMMATIC ONLY. PROVIDE QUANTITY OF HORIZONTAL CABLING, CROSS CONNECT HARDWARE, PATCH CORDS, ETC., TO ENSURE A FULLY OPERATIONAL PREMISES WIRING SYSTEM.
- (N-2) REFER TO FLOOR PLAN DRAWINGS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-3) REFER TO SPECIFICATIONS FOR ADDITIONAL EQUIPMENT RACK BUILD OUT REQUIREMENTS.
- (N-4) AS PART OF THIS SCOPE OF WORK COMMUNICATIONS CONTRACTOR SHALL RACK MOUNT ALL OWNER PROVIDED SWITCHES, SERVERS, POWER SUPPLIES, MODEMS, SPLITTERS, DIN RAILS, AUDIO BRIDGE, ETC., PROVIDE REQUIRED MOUNTING SCREWS.
- (N-5) BASE BID PRICE SHALL INCLUDE FOR A TOTAL OF 50 PATCHES WITHIN IT ROOM. REFER TO DETAIL NO. 2 ON DRAWING NO. C-1.1 FOR PATCH CORD QUANTITY AND LENGTHS.
- (N-6) NOT USED.
- (N-7) PATCH PANEL OUTLET COLOUR SHALL MATCH RESPECTIVE WALL JACK COLOUR. REFER TO DETAIL NO. 1 ON DRAWING NO. C-1.1 FOR COLOUR ASSIGNMENT.
- (N-8) NOT USED.
- (N-9) ROUTE DATA HORIZONTAL/STATION (FLOOR) CABLES TO RESPECTIVE RACK MOUNTED PATCH PANELS PROVIDED AS PART OF THIS SCOPE OF WORK.

- ① EXISTING 2RMU 48 PORT CAT5E FLAT PATCH PANEL
- ② EXISTING 1RMU 48 PORT ACTIVE SWITCH
- ③ EXISTING 1RMU 24 PORT CAT5E FLAT PATCH PANEL
- ④ EXISTING 1RMU 24 PORT CAT6 FLAT PATCH PANEL
- ⑤ EXISTING 1RMU NETWORK SERVICE PLATFORM - JUNIPER NFX250
- ⑥ EXISTING 1RMU 24 PORT ACTIVE SWITCH - ARUBA 2540
- ⑦ EXISTING 1RMU FIREWALL SERVER - FORTINET FORTIGATE 100F
- ⑧ EXISTING 1RMU FIBER INTERCONNECT CENTER - SIECOR
- ⑨ EXISTING CCTV SYSTEM SERVER - AVIGILON
- ⑩ EXISTING 30RMU NETWORK EQUIPMENT CABINET
- ⑪ 12 RMU WALL MOUNTED NETWORK EQUIPMENT CABINET PROVIDED AS PART OF THIS SCOPE OF WORK - MIDDLE ATLANTIC CABLESAFE CWR-12-26PD-CAN
- ⑫ 1RMU 48 PORT CAT6 FLAT PATCH PANEL PROVIDED AS PART OF THIS SCOPE OF WORK
- ⑬ 1RMU MULTIMODE FIBRE PATCH PANEL PROVIDED AS PART OF THIS SCOPE OF WORK
- ⑭ 1RMU NETWORK SWITCH SUPPLIED BY CLIENT AND INSTALLED BY COMMUNICATIONS CONTRACTOR

PATCH PANEL OUTLET COLOUR CODING:
 INTERCONNECTION OF NETWORKING EQUIPMENT - RED
 TELEPHONE / VOIP - GREEN
 BAS / CHUBB SECURITY - ORANGE
 SECURITY CAMERAS - BLUE
 WIRELESS ANTENNA - WHITE
 ALL OTHER NETWORK REQUIREMENTS - YELLOW

CONFIRM PLACEMENT OF EQUIPMENT WITH OWNER PRIOR TO RACKING PATCH PANELS, ACTIVE SWITCHES, ETC.

1 NETWORK EQUIPMENT CABINET ELEVATIONS
 SCALE: NTS



(N-1) PHOTO ILLUSTRATES EXISTING VOICE IDF BACKBOARD AND IS INCLUDED FOR REFERENCE PURPOSES ONLY.

- ① EXISTING COMMUNICATIONS CONDUIT TO BE REMOVED BY ELECTRICAL CONTRACTOR.
- ② EXISTING PHONE SYSTEM TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- ③ EXISTING ANALOG CABLE SYSTEM TO BE REMOVED AS PART OF THIS SCOPE OF WORK.
- ④ EXISTING CCTV CABLES TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK.
- ⑤ EXISTING BAS SYSTEM TO BE RELOCATED BY MECHANICAL CONTRACTOR.

2 PHOTO - EXISTING VOICE IDF BACKBOARD
 SCALE: NTS



(N-1) PHOTOS ILLUSTRATE EXISTING CORRIDOR C101 CONDITION AND ARE INCLUDED FOR REFERENCE PURPOSES ONLY.

- ① EXISTING PUBLIC ADDRESS AND COMMUNICATIONS JUNCTION BOX TO REMAIN
- ② EXISTING COMMUNICATIONS CONDUIT TO BE REMOVED BY ELECTRICAL CONTRACTOR C/W CABLES TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR. REFER TO DRAWING NO. C-2.0 FOR ADDITIONAL REQUIREMENTS.
- ③ EXISTING COMMUNICATIONS CABLES TO BE REMOVED AND REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK TO ACCOMMODATE CEILING BUILD-OUT BY GENERAL CONTRACTOR. REFER TO DRAWING NO. C-2.0 FOR ADDITIONAL REQUIREMENTS.

3 PHOTOS - CORRIDOR C101
 SCALE: NTS

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 40 EGLINTON AVENUE EAST, SUITE 600
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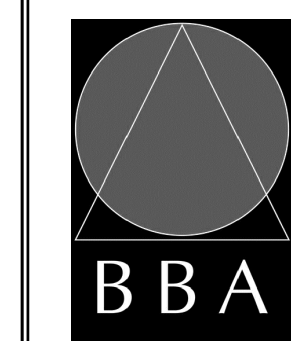


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**COMMUNICATIONS
 DETAILS**



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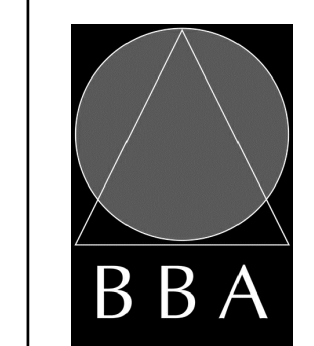


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**PARTIAL COMMUNICATIONS
 FACILITY PLANS**

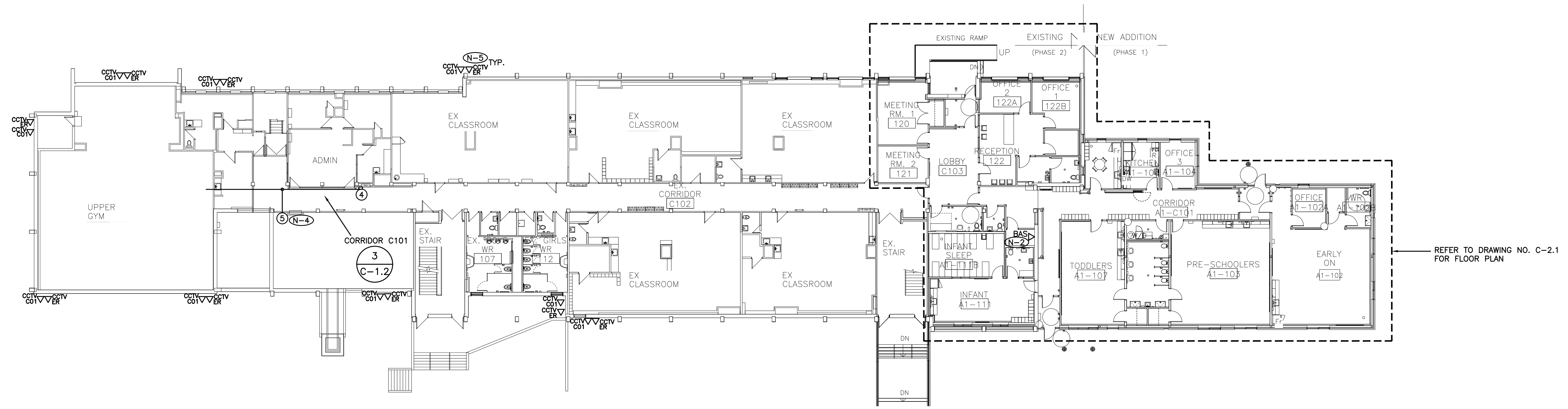


**BARRY BRYAN
 ASSOCIATES**
 Architects
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 Project Managers

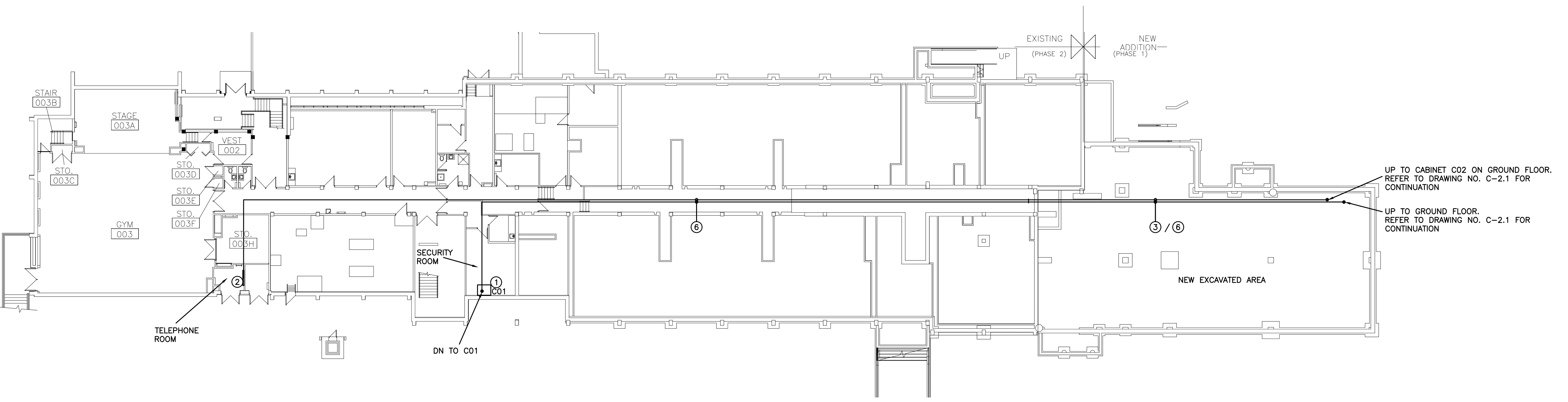
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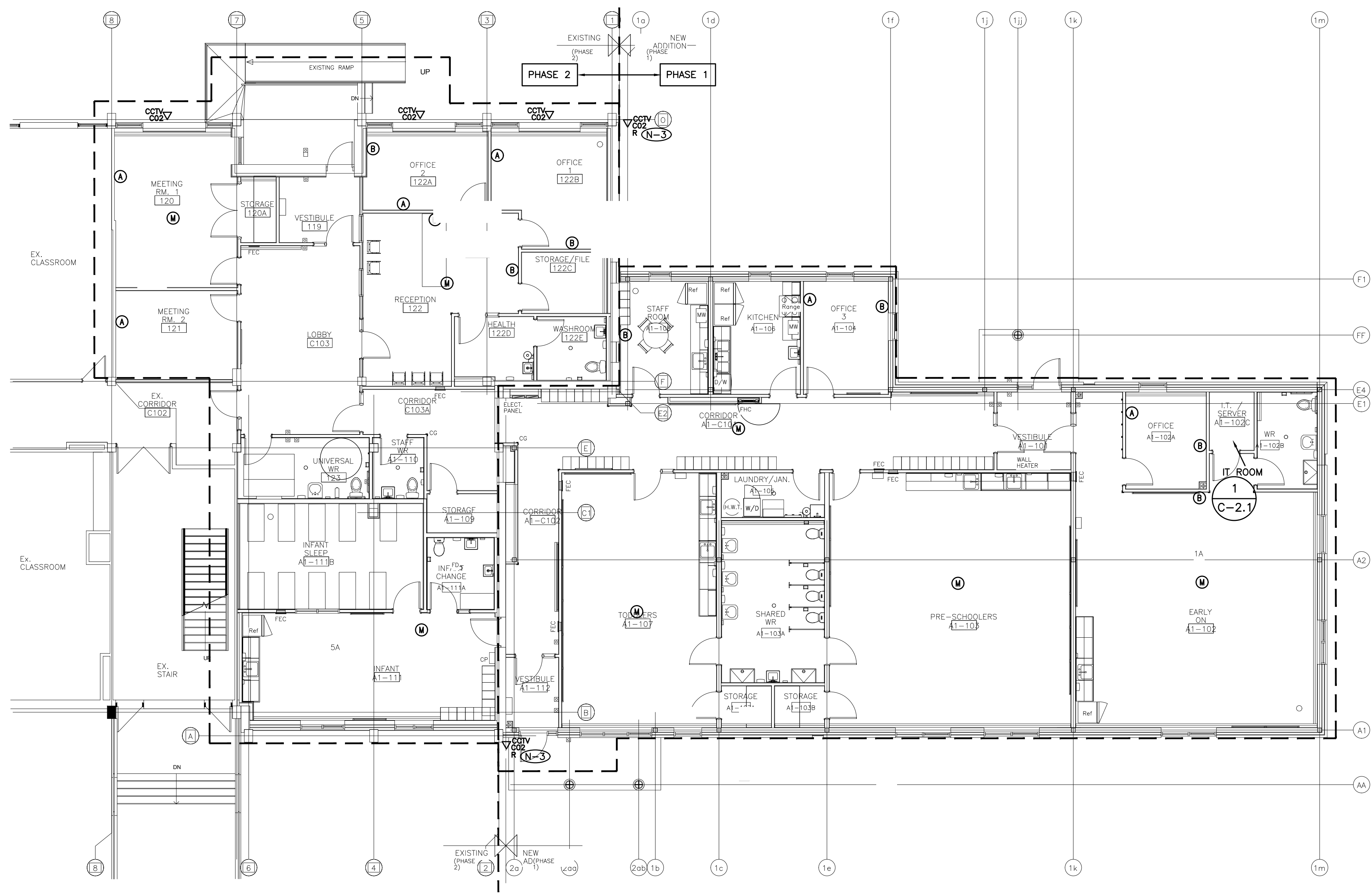
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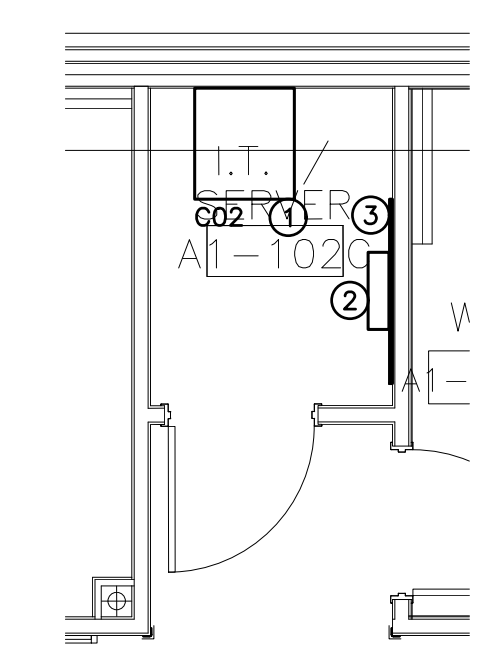
UP TO CABINET C02 ON GROUND FLOOR. REFER TO DRAWING NO. C-2.1 FOR CONTINUATION
 UP TO GROUND FLOOR. REFER TO DRAWING NO. C-2.1 FOR CONTINUATION

- (N-1) EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
- (N-2) CONFIRM EXACT LOCATION TO INSTALL DATA OUTLET INDICATED FOR BAS SYSTEM ONSITE WITH MECHANICAL CONTRACTOR.
- (N-3) AS PART OF THIS SCOPE OF WORK PROVIDE AN ADDITIONAL TWO (2) WALL MOUNTED CCTV CAMERA OUTLET (150' RUNS (TOTAL OF 150' CABLE) PER ADDITIONAL WALL/FURNITURE MOUNTED OFFICE GROUP) OVER AND ABOVE THOSE SHOWN ON DRAWING NO. C-2.0 ON AN AD HOC BASIS UP TO POST SUBSTANTIAL COMPLETION.
- (N-4) AS PART OF THE BASE BID PRICE TRACE EIGHT (8) EXISTING COMMUNICATIONS CABLES INDICATED TO BE REPLACED WITH NEW AS PART OF THIS SCOPE OF WORK, EACH COMMUNICATION CABLE TO BE 150' (1200' TOTAL). VERIFY AND CONFIRM EXISTING CABLE REQUIREMENTS INDICATED PRIOR TO ORDERING AND INSTALLATION OF NEW COMMUNICATIONS CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. REPORT FINDINGS TO ENGINEER PRIOR TO ORDERING DISTRIBUTION.
- (N-5) AS PART OF THIS SCOPE OF WORK REMOVE EXISTING COMMUNICATIONS CABLES FOR CCTV CAMERAS AND REPLACE WITH NEW. REFER TO DETAIL NO. 3 ON DRAWING NO C-1.1 FOR ADDITIONAL REQUIREMENTS.
- (N-6) REMOVE AND DISPOSE OF ALL EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC. DO NOT REUSE / RELOCATE EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC., UNLESS INDICATED OTHERWISE.

- (1) EXISTING NETWORK EQUIPMENT CABINET
- (2) EXISTING VOICE MDF PLYWOOD BACKBOARD
- (3) 2" CONDUIT C/W PULLSTRING PROVIDED BY ELECTRICAL CONTRACTOR
- (4) EXISTING COMMUNICATIONS JUNCTION BOX TO REMAIN
- (5) APPROXIMATE PATH OF EXISTING COMMUNICATIONS CABLES TO BE REMOVED BACK TO SOURCE AND REPLACED WITH NEW TO ACCOMMODATE NEW CEILING BUILD OUT BY GENERAL CONTRACTOR.
- (6) APPROXIMATE ROUTING OF COMMUNICATION CABLES PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 3 ON DRAWING NO. C-1.1 FOR ADDITIONAL REQUIREMENTS.



- (N-1) EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
- (N-2) AS PART OF THIS SCOPE OF WORK PROVIDE AN ADDITIONAL TWO (2) WALL MOUNTED TYPE B OFFICE GROUPS (250' RUNS (TOTAL OF 500' CABLE) PER ADDITIONAL WALL/FURNITURE MOUNTED OFFICE GROUP) OVER AND ABOVE THOSE SHOWN ON DRAWING NO. C-2.1 ON AN AD HOC BASIS UP TO POST SUBSTANTIAL COMPLETION.
- (N-3) FINAL LOCATIONS OF CCTV CAMERAS RELOCATED AS PART OF THIS SCOPE OF WORK TO BE CONFIRMED ONSITE WITH OWNER.
- (N-4) COMMUNICATIONS CONTRACTOR SHALL INSTALL AND CONNECT SEVEN (7) CEILING MOUNTED WIRELESS ACCESS POINT SUPPLIED BY OWNER ON AN AD HOC BASIS THROUGHOUT THE FLOOR.
- (N-5) PROVIDE 10' OF SLACK NEATLY COILED IN CEILING SPACE AT OUTLET END FOR EACH HORIZONTAL (STATION) CABLE PROVIDED AS PART OF THIS SCOPE OF WORK.



- (N-1) EXACT LOCATION OF DEVICES TO BE COORDINATED WITH ELECTRICAL CONTRACTOR.
 - (N-2) PROVIDE BELDEN QMBIX10A MOUNT AND TERMINATE HORIZONTAL ANALOG CABLES PROVIDED AS PART OF THIS SCOPE OF WORK ON BELDEN QMBIX10A MOUNT PROVIDED AS PART OF THIS SCOPE OF WORK. PROVIDE REQUIRED QCBIX144 CONNECTING BLOCKS.
- 1 WALL MOUNTED NETWORK EQUIPMENT CABINET PROVIDED AS PART OF THIS SCOPE OF WORK
 - 2 PUNCH DOWN BLOCK ASSEMBLIES PROVIDED AS PART OF THIS SCOPE OF WORK
 - 3 4'W X 8'H X 3/4"D FIRE RATED PLYWOOD BACKBOARD FOR VOICE IDF PROVIDED BY ELECTRICAL CONTRACTOR

1 COMMUNICATIONS PLAN – IT ROOM A1-109
 C-2.1 SCALE: 1:50

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NETWORK TECHNOLOGY SYSTEMS DESIGNER
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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
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DRAWING:
COMMUNICATIONS PLAN

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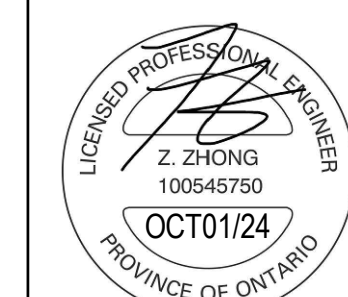
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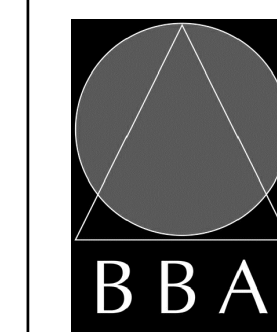


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PROJECT:
GARDARIE LA FARANDOLE

Ecole Elementaire Pierre Elliot Trudeau
 65 Grace Street Toronto

DRAWING:
**COMMUNICATIONS
 DEMOLITION PLAN**



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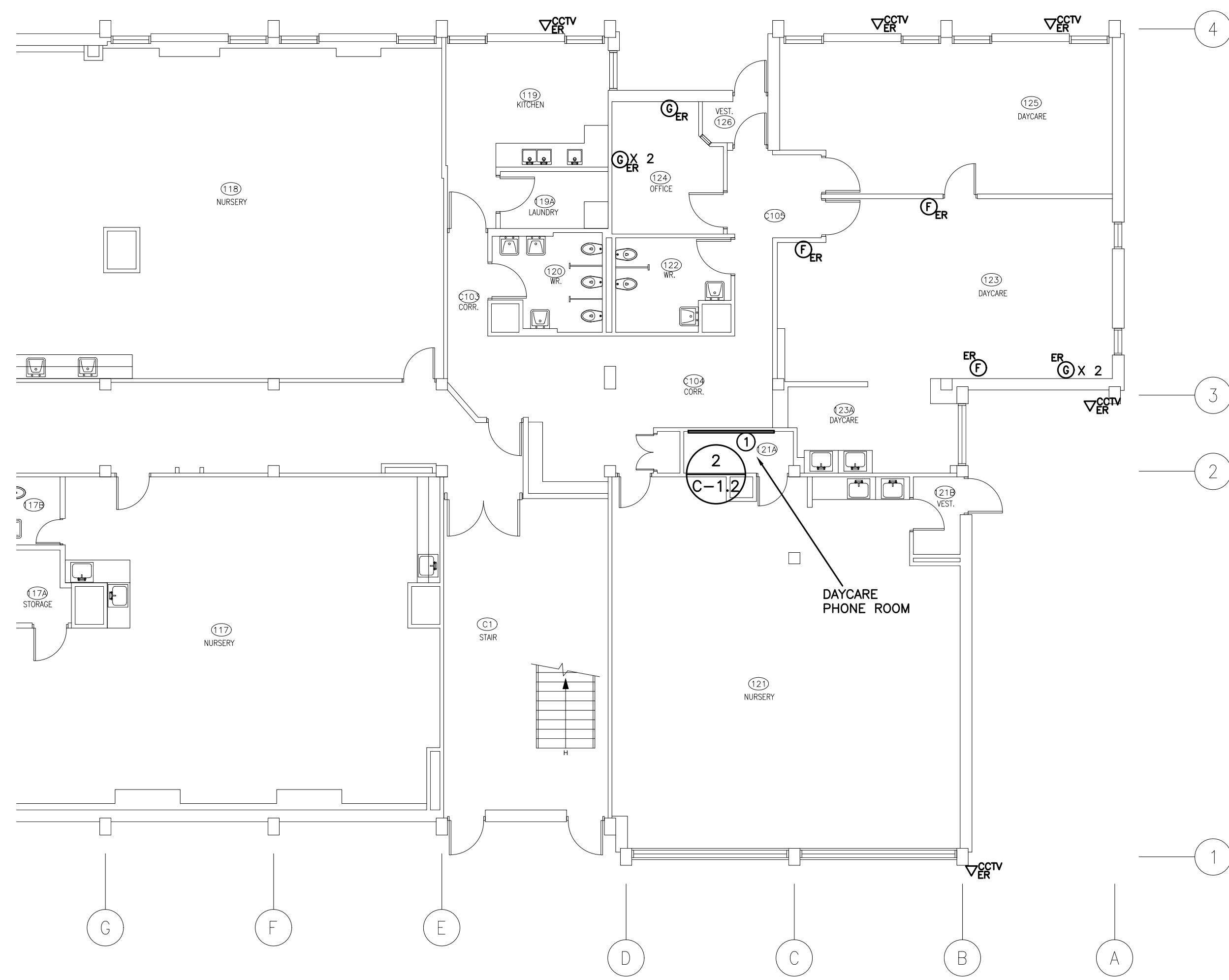
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23029

DRAWING NO:

C-5.1



- (N-1) REMOVE AND DISPOSE OF ALL EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC.. DO NOT REUSE / RELOCATE EXISTING CABLES, OUTLETS, TERMINATION HARDWARE, ETC., UNLESS INDICATED OTHERWISE.
- (N-2) AS PART OF THIS SCOPE OF WORK REMOVE AN ADDITIONAL FOUR (4) WALL MOUNTED TYPE F OFFICE GROUPS OVER AND ABOVE THOSE SHOWN ON DRAWING NO. C-5.1 ON AN AD HOC BASIS.

(1) EXISTING VOICE IDF BACKBOARD TO BE REMOVED BY ELECTRICAL CONTRACTOR