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2	2025-07-15	ISSUED FOR PERMIT/TENDER	BRT
1	2025-07-02	ISSUED FOR CLIENT REVIEW	BRT
No.	Date	Description	By

STAMPS:



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APPROVED BY

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**DURHAM DISTRICT SCHOOL
BOARD**
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Pickering, Ontario L1X 2H8

PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM RENOVATION

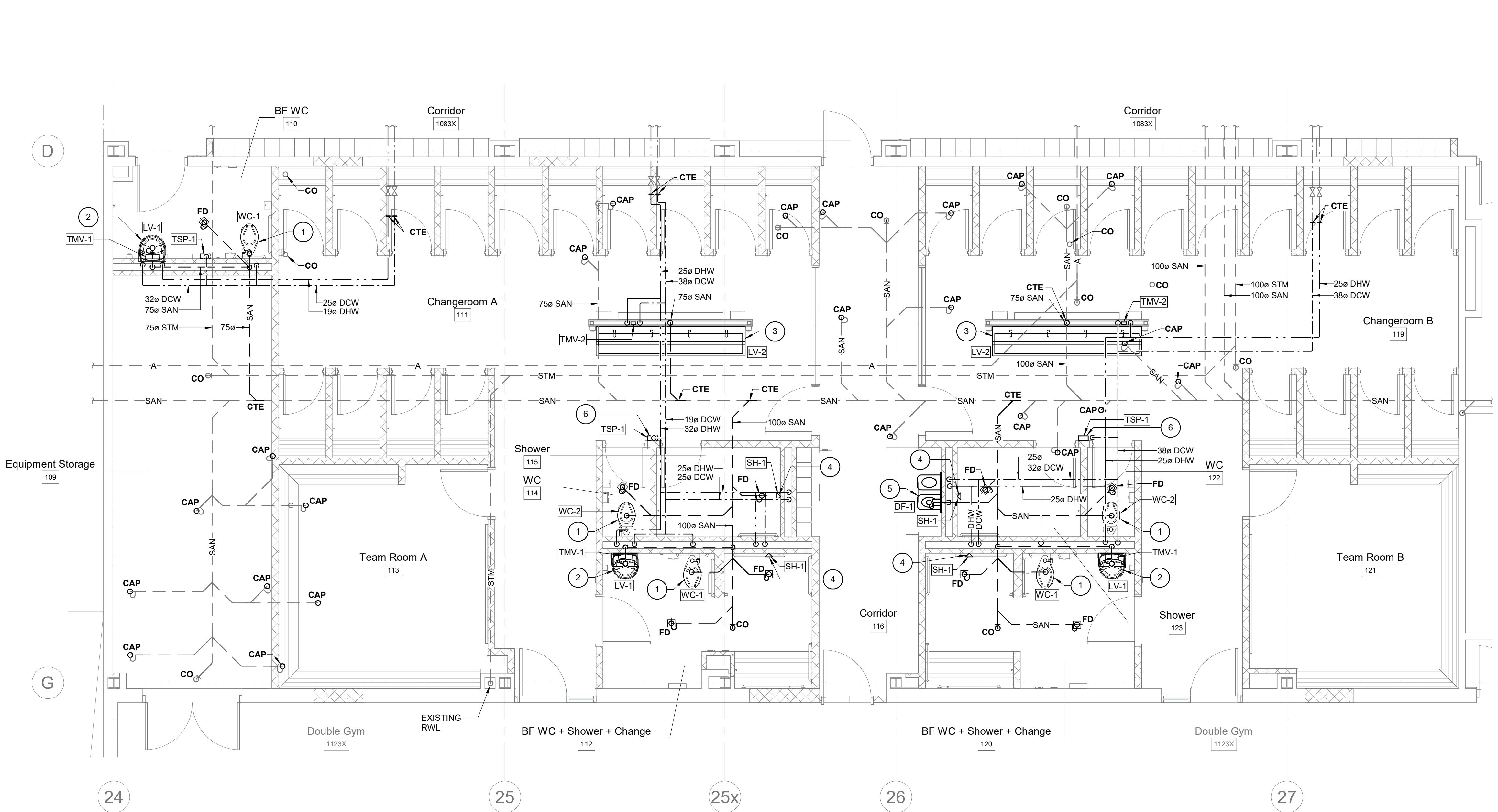
SHEET TITLE:

GROUND FLOOR SOUTH CHANGE ROOMS - DEMOLITION PLUMBING

DISCIPLINE:

PLUMBING

DRAFTER:	SR	SCALE:	AS NOTED
DESIGNER:	BRT	DATE:	2025-07-15
APPROVER:	BRT	CHECKER:	BRT
PROJECT No:	Z0023519	DRAWING No:	PD101
SHEET No:	2 of 10		



HVAC MATERIAL SPECIFICATIONS:	
1.	DUCTWORK: .1 IN CONFORMANCE WITH SMACNA, ASHRAE, OBC, NFPA 90A. .2 SHEET METAL SHALL BE BEST QUALITY LOCK FORMING GALVANIZED SHEET METAL. GALVANIZING SHALL BE TO ASTM A525 (G90), HAVING A THICKNESS OF 0.054mm AND WEIGHING NOT LESS THAN 0.31 kg/m ² ON EACH SURFACE. .3 ALL ROUND DUCTWORK SHALL BE SPIRAL. .4 COORDINATE WITH GENERAL CONTRACTOR FOR PAINTING OF EXPOSED DUCTWORK.
2.	DUCT ACCESS DOORS .1 DUCT ACCESS DOORS SHALL BE EQUAL TO NAILOR 085CL(SQUARE) OR 080Q(OVAL). REFER TO DETAIL.
3.	HOT WATER HEATING PIPING: .1 PIPING UP TO INCLUDING 2"(50mm): PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH MALLEABLE STEEL THREADED SCREW FITTINGS OR COPPER WITH SOLDER JOINTS. .2 PIPINGS 2-1/2"(63mm) AND OVER: PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH WELDED FITTINGS. .3 BRASS ADAPTERS SHALL BE PROVIDED AT ALL CONNECTIONS BETWEEN COPPER TUBING AND FERROUS PIPING. .4 PROVIDE AUTOMATIC AIR VENTS C/W BALL VALVE AT ALL HIGH POINTS. REFER TO SPECIFICATIONS BELOW. .5 PROVIDE DRAIN VALVES C/W HOSE CONNECTION AND CAP AT ALL LOW POINTS AND AS NOTED ON DETAILS. .6 ALLOW FOR ANY CHEMICAL TREATMENT OR GLYCOL FILL TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS.
4.	PIPE HANGERS: .1 ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS. .2 FOR COPPER PIPING (INCLUDING PIPING WITHIN WALLFIN ENCLOSURE) PROVIDE COPPER PLATED OR EPOXY TYPE HANGERS OR PROVIDE SEPARATION OF DISSIMILAR METALS WITH APPROVED DIELECTRIC MATERIALS. INSULATING TAPE IS NOT ACCEPTABLE. .3 WHERE HANGERS WRAP AROUND OUTSIDE OF PIPE INSULATION, PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION. .4 PIPE HANGER SPACING -SIZES UP TO 1-1/4"(32mm) = 8'(2.5m) SPACING -SIZES 1-1/2"(38mm) TO 2"(50mm) = 10'(3m) SPACING -SIZES 2-1/2"(63mm) AND OVER = 12'(3.5m) SPACING .5 PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW
5.	VALVES AND ACCESSORIES: .1 ALL VALVES SHALL BE LINE SIZED UNLESS OTHERWISE NOTED. (CBVs GENERALLY NOT LINE SIZE). .2 CIRCUIT BALANCING VALVES SHALL BE IMI TA STAS/STAD/STAF SERIES (NO ALTERNATES ACCEPTABLE). MOUNT WITH PORTS UPRIGHT OR AT LEAST 90° UP FROM BOTTOM. SUBMIT SHOP DRAWINGS COMPLETE WITH VALVE SIZING SCHEDULE. .3 BALL VALVES SHALL BE EQUAL TO KITZ 58 & 59. .4 AUTOMATIC AIR VENTS SHALL BE EQUAL TO: -WALLFINS, CONVECTORS, RADS: "MAID-O-MIST" #67 COMPLETE WITH BALL VALVE
6.	WATER TREATMENT: .1 ALLOW FOR CHEMICAL TREATMENT TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS. .2 OBTAIN THE SERVICES OF MK SERVICES FOR ALL WATER TREATMENT.
7.	DUCT INSULATION: .1 ACOUSTIC DUCT INSULATION .1 FIBERGLASS INSULATION, COATED TO PREVENT FIBRE EROSION AT AIR VELOCITIES UP TO 400 fpm. .2 ALL SUBSTRATE MATERIAL TO BE NON-DARKENED, CONTRASTING COLOUR FROM LINER LAYER. .3 THICKNESS: 1" (25mm) .2 THERMAL DUCT INSULATION .1 INSULATION SHALL BE PRECOVERED, PREFORMED RIGID FIBROUS GLASS INSULATION COMPLETE WITH FOIL OR KRAFT ALL-PURPOSE JACKET. .2 0.75 PCF (12 kg/m ³) DENSITY, 0.29 K-VALUE WITH 25/50 FLAME SPREAD/SMOKE DEVELOPMENT CLASSIFICATION IN ACCORDANCE WITH CAN/ULC S102. .3 SUPPLY, RETURN AND EXHAUST DUCT APPLICATION THICKNESS: 1" (25mm) MINIMUM. .4 OUTDOOR AIR INTAKE DUCT APPLICATION THICKNESS: 2"(50mm) MINIMUM. .5 RECOVERING JACKETS (INTERIOR): ULC LISTED "THERMO CANVAS", TREATED COTTON FABRIC.
8.	PIPE INSULATION: .1 PROVIDE 1-1/2"(38mm) PIPE INSULATION ON ALL HEATING PIPING SIZES UP TO AND INCLUDING 1-1/4"(32mm) .2 PROVIDE 2"(50mm) PIPE INSULATION ON ALL HEATING PIPING SIZES 1-1/2"(38mm) AND OVER .4 EXTERNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE AND BE COMPLETE WITH FACTORY SUPPLIED ALL PURPOSE VAPOUR BARRIER. PRE-FORMED INSULATION SHALL BE USED AT PIPE FITTINGS, VALVES, ETC. PROVIDE NON-CRUSHING INSULATION AT ALL PIPE HANGERS AND PROVIDE SADDLES. .5 PROVIDE PVC JACKET ON ALL INSULATION IN EXPOSED AREAS.
9.	ACCESS DOORS/COVERS .1 FLUSH ACCESS DOOR - UNIVERSAL- ACUDOR #UF-5000 UNIVERSAL ACCESS DOORS, 14 GA. (1.7mm) STEEL, BAKED ENAMEL PRIME COAT, CONTINUOUS CONCEALED HINGE, WITH POSITIVE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOORS IN WASHROOMS SHALL BE STAINLESS STEEL. ALL OTHER PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD PAINTING. MINIMUM SIZE OF PANELS SHALL BE 12"x18" (300mmx450mm). WHEREVER POSSIBLE 24"x24" (600mmx600mm) PANELS SHALL BE USED. .2 RECESSED ACCESS DOOR - DRYWALL AREA: ACUDOR #DW-5015 SERIES RECESSED ACCESS DOOR, 16 GA. (1.5mm) STEEL, BAKED ENAMEL PRIME COAT, WITH CONCEALED PIVOTING ROD TYPE HINGE AND SELF-OPENING SCREWDRIVER OPERATED LOCK. DOOR TO BE RECESSED 5/8" (14mm) TO RECEIVE DRYWALL. FLANGE OF DOOR TO BE GALVANIZED STEEL TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS FOR FIELD PAINTING.

BRICK VENT SCHEDULE	
TAG	BV
TYPE	OUTDOOR EXTRUDED ALUMINUM BRICK/BLOCK EXHAUST VENT
MANUFACTURER	NAILOR
MODEL	16BVE OR LARGER
SIZE	CONFIRM WITH GENERAL TO SUIT BRICK SIZE
COLOUR	STANDARD FINISH
NOTES	-4" DEEP -ALUMINUM INSECT SCREEN
ALTERNATE MANUFACTURERS	TITUS, METALAIRE

AIR OUTLET SCHEDULE				
TAG	A	C	D	
TYPE	LOUVERED FACE SUPPLY	LOUVERED FACE RETURN	LOUVERED FACE RETURN	EGG CRATE RETURN
MANUFACTURER	PRICE	PRICE	PRICE	PRICE
MODEL	520D-F-L-A	535D-F-L-A	535D-F-L-A	80
SIZE	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS
COLOUR	B12	B12	B12	B12
NOTES	- DOUBLE DEFLECTION (ADJUSTABLE BLADES) - STEEL DAMPER	- SINGLE DEFLECTION (FIXED BLADES) - 1/2" BLADE SPACING - STEEL DAMPER	- SINGLE DEFLECTION (FIXED BLADES) - 1/2" BLADE SPACING - NO DAMPER	- NO BORDER FOR T-BAR MOUNTING
ALTERNATE MANUFACTURERS	NAILOR, TITUS, METAL AIR			

HVAC ABBREVIATIONS	
EX	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
CTE	CONNECT TO EXISTING
C/W	COMPLETE WITH
E/A	EXHAUST AIR
T/A	TRANSFER AIR

HVAC NOTES:	
1.	CONCEAL ALL SERVICES IN CEILING SPACES AND FURRED CONSTRUCTION UNLESS INSTALLED IN UNFINISHED OR EXPOSED AREAS OR IF SPECIFICALLY NOTED TO BE EXPOSED.
2.	COORDINATE INSTALLATION WITH ALL OTHER TRADES.
3.	REFER TO REFLECTED CEILING PLAN TO CONFIRM EXACT LOCATION OF GRILLES. LIGHTING TAKES PRECEDENCE.
4.	PROVIDE ACOUSTIC INSULATION IN ALL TRANSFER DUCTS AND AS INDICATED ON DRAWINGS. SEAL ALL EXPOSED ENDS OF INSULATION.
5.	TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.
6.	SEAL ALL JOINTS ON ALL SUPPLY & RETURN AIR DUCTS WITH DURODYNE DUCT SEALER IN CONFORMANCE TO CLASS 'C' ASHRAE 90.1 AND SMACNA STANDARDS. USE CLEAR DUCT SEALER OR SEAL BEHIND JOINTS FOR ALL EXPOSED DUCTWORK.
7.	PROVIDE BALANCE DAMPERS ON ALL BRANCH DUCTS CLOSE TO MAIN TAKE-OFF. REVIEW WITH BALANCING CONTRACTOR TO CONFIRM LOCATIONS OF ALL BALANCE DAMPERS PRIOR TO CONSTRUCTION.
8.	INCLUDE FOR THE SUPPLY AND INSTALLATION OF TWO(2) EXTRA BALANCE DAMPERS AFTER CONSTRUCTION AND BALANCING COMPLETION. (PENDING BALANCING RESULTS AND COMMENTS).
9.	FLEXIBLE DUCT SHALL NOT BE USED.
10.	PROVIDE EXTERNAL INSULATION ON ALL EXHAUST DUCTS WITHIN 8' (2.4m) OF OUTSIDE WALL/ROOF.
11.	CONFIRM EXACT LOCATIONS OF THERMOSTATS/SENSORS WITH ENGINEER AND OWNER. MOUNT THERMOSTATS AT 47" (1200mm) AFF. MOUNT SENSORS AT 59" (1500mm) AFF. ENSURE THAT THERMOSTAT/SENSOR LOCATIONS WILL NOT BE AFFECTED BY DIRECT SUNLIGHT, COLD WALLS OR MILLWORK.
12.	ALL INDOOR CONTROL WIRING SHALL BE RUN IN EMT CONDUIT OR FT6 (EMT SHALL BE USED IN EXPOSED AREAS). LAST 3' SHALL BE BX WHEN USING CONDUIT. ALL OUTDOOR CONTROL WIRING SHALL BE RUN IN LIQUIDTIGHT. ALL CONTROL WIRING SHALL RUN PARALLEL TO BUILDING LINES AND TIGHT TO ROOF DECK OR WALLS. ALL CONTROL WIRING PASSING THROUGH WALLS SHALL BE RUN IN EMT CONDUIT C/W BUSHINGS AT EACH END.
13.	PROVIDE FIRE DAMPERS AT ALL FIRE SEPARATIONS. FIRE DAMPERS SHALL BE TYPE 'B' C/W LINKAGE OUT OF THE AIR STREAM. FIRE DAMPER RATING TO MATCH THE RATING OF THE SEPARATION CROSSED. INSTALLATION MUST CONFORM TO LATEST NFPA/CUA 90A SPECIFICATIONS. ONLY USE ULC APPROVED EQUIPMENT. PROVIDE DUCT ACCESS DOORS AND BREAK AWAY FLANGES FOR ALL FIRE DAMPERS IN CONFORMANCE WITH CODE AND INSTALLATION INSTRUCTIONS. ACCESS DOORS SHALL BE TWIST LOCK TYPE - SCREWED PANELS ARE NOT ACCEPTABLE.
14.	PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
15.	SUPPLY DRYWALL ACCESS DOORS FOR CONCEALED FIRE AND BALANCE DAMPERS AND ANY OTHER CONCEALED DEVICES AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION. DOORS TO BE GALVANIZED STEEL FOR FIELD PAINTING. DOORS SHALL BE RATED WHERE INSTALLED IN FIRE SEPARATIONS.
16.	DRAIN HEATING SYSTEMS AS REQUIRED FOR NEW WORK. FILL, FLUSH, TEST AND TREAT (CHEMICAL TREATMENT) AFTER WORK IS COMPLETE. PROVIDE ALL PORTS, VALVES AND GAUGES AS REQUIRED. SUBMIT CHEMICAL TREATMENT REPORT TO ENGINEER. FREEZING OF PIPING TO ALLOW ISOLATION OF WORK AREA IS ACCEPTABLE IN LIEU OF DRAINING.
17.	ALL CBVs SHALL BE MOUNTED WITH PORTS IN HORIZONTAL (90°) POSITION.
18.	PROVIDE EXTERNAL INSULATION ON ALL HEATING PIPING EXCEPT IN WALLFIN ENCLOSURES.
19.	PROVIDE FIRE STOPPING AROUND ALL NEW PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CAN/ULC-S115.
20.	LABEL ALL NEW HEATING PIPING COMPLETE WITH FLOW ARROWS. LABELS SHALL BE MAX 3m(10') SPACING AND ON EITHER SIDE OF WALLS. LABELING MUST BE COMPLETE PRIOR TO NEW CEILING BEING INSTALLED OTHERWISE IT IS THE CONTRACTORS RESPONSIBILITY TO REMOVE CEILING TILES FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
21.	LABEL CEILING TILE WITH PERMANENT ADHESIVE LABELS OR LAMACOID NAMEPLATES FOR ACCESS TO MECHANICAL ITEMS.
22.	OBTAIN THE SERVICES OF A NEBB, CAABC OR NBCTA ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE HVAC SYSTEM. PROVIDE REPORT TO ENGINEER FOR REVIEW. REFER TO SPECIFICATIONS FOR APPROVED AGENTS.
23.	PROVIDE TESTING AND STARTUP OF ALL NEW EQUIPMENT AND PROVIDE REPORTS TO THE ENGINEER FOR REVIEW.

BALANCING SPECIFICATIONS:	
1.	OBTAIN THE SERVICES OF A 3rd PARTY ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE AIR AND WATER HVAC SYSTEM.
2.	PROVIDE PRELIMINARY REPORT TO ENGINEER FOR REVIEW AND COMMENTS.
3.	ALLOW FOR ONE FOLLOW-UP SITE VISIT FOR ADJUSTMENTS.
4.	RETURN TO SITE FOR ANY ADJUSTMENTS AND SUBMIT FINAL REPORT TO ENGINEER AND CONTRACTOR. FOR INCLUSION INTO MAINTENANCE MANUAL.
5.	ACCEPTABLE AGENTS: .1 <u>QUALITY AIR DISTRIBUTION INC</u> CONTACT: MIKE NOONAN TEL: (289)892-7168 EMAIL: mike@qualityairdistribution.com .2 <u>DESIGN TEST & BALANCE</u> CONTACT: SURRENDER SINGH TEL: (905)886-6513 EMAIL: mai@designtest.ca .3 <u>FLOWSET BALANCING</u> CONTACT: CHRIS PITHER PHONE: (416)410-9793 OR (647)321-5114 EMAIL: chrisp@flowset.com .4 <u>AIR FLOW TESTING AND BALANCING</u> CONTACT: PAUL LIVIE PHONE: 613-372-2244 OR 613-876-9314 EMAIL: airflowtesting@gmail.com .5 <u>COMPLETE SYSTEMS BALANCING</u> CONTACT: TREVOR KELLY PHONE: 705-760-0390 EMAIL: trevork@csbalancing.com

HVAC LEGEND													
—	NEW												
—	EXISTING												
----	DEMOLITION												
	EXHAUST RECTANGULAR DUCTS (UP / DOWN)												
	EXHAUST ROUND DUCTS (UP / DOWN)												
	TRANSFER RECTANGULAR DUCTS (UP / DOWN)												
	TRANSFER ROUND DUCTS (UP / DOWN)												
	ACOUSTIC LINED DUCT												
	BACKDRAFT DAMPER												
	BALANCE DAMPER												
	FIRE DAMPER												
	EXHAUST CEILING GRILLE												
	TRANSFER CEILING GRILLE												
	TRANSFER SIDE WALL/DUCT GRILLE												
	EXHAUST SIDE WALL/DUCT GRILLE												
	ELBOW RISING												
	ELBOW DROPPING												
	BRANCH RISING FROM TEE												
	BRANCH DROPPING FROM TEE												
<table><tr><td>TYPE</td><td>ID</td></tr><tr><td>QTY</td><td>TYPE</td></tr><tr><td></td><td>SIZE</td></tr><tr><td></td><td>AIR</td></tr></table>	TYPE	ID	QTY	TYPE		SIZE		AIR	<table><tr><td>EQUIPMENT SYMBOLS</td><td>TYPE OF EQUIPMENT NUMBER DESIGNATION</td></tr><tr><td>GRILLE SYMBOLS</td><td>TYPE — SIZE (mm) AIR FLOW (cfm)</td></tr></table>	EQUIPMENT SYMBOLS	TYPE OF EQUIPMENT NUMBER DESIGNATION	GRILLE SYMBOLS	TYPE — SIZE (mm) AIR FLOW (cfm)
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	AIR												
EQUIPMENT SYMBOLS	TYPE OF EQUIPMENT NUMBER DESIGNATION												
GRILLE SYMBOLS	TYPE — SIZE (mm) AIR FLOW (cfm)												

FAN SCHEDULE			
TAG			EF-110
SERVICE			BF WR 110
TYPE			CEILING MOUNTED
MANUFACTURER			BROAN
MODEL			L200MG
AIRFLOW	cfm		200
EXTERNAL STATIC	in.wc.		0.25
SOUND			2.5 @ 0.1"ESP
FAN MOTOR	hp		FRACTIONAL
FAN TYPE			CENTRIFUGAL BLOWER
AMPS	amps		0.5A
ELECTRICAL	volt/ph		120/1
DIMENSIONS	inches		14 SQ x 17 L
CONTROLS			-TIE INTO BAS TO RUN DURING OCCUPIED HOURS
ACCESSORIES			-PLUG-IN -POLYMERIC GRILLE -RESILIENT ANTI-VIBRATION MOTOR MOUNTS -6" DUCT CONNECTER ASSEMBLY -METAL GRILLE
ALTERNATE MANUFACTURERS			GREENHECK, CARNES, PENN

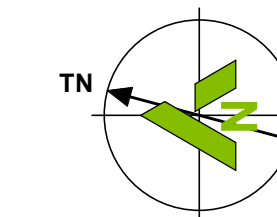
GENERAL NOTES:	
1.	WORK TO BE COMPLETED OUTSIDE REGULAR HOURS: .1 ANY WORK THAT CREATES DISRUPTION TO REGULAR SCHOOL OR OCCUPANT ACTIVITIES AND OPERATIONS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. THIS INCLUDES BUT IS NOT LIMITED TO SERVICE INTERRUPTIONS, WORK THAT GENERATES NOISE, WORK THAT GENERATES VIBRATIONS, WORK THAT GENERATES FUMES/SMELLS, ETC. .2 ANY WORK INSIDE OR OUTSIDE, THAT CREATES RISK TO BUILDING OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. .3 ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
2.	OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
3.	THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
4.	OBTAIN AND REVIEW THE DESIGNATED SUBSTANCE REPORT FROM THE CLIENT AND COORDINATE ANY DESIGNATED SUBSTANCE ISSUES WITH THE CLIENT PRIOR TO ANY WORK BEING DONE.
5.	PROVIDE SHOP DRAWINGS ELECTRONICALLY IN PDF FORMAT TO CONSULTANT FOR REVIEW. ALL SHOP DRAWINGS MUST BE REVIEWED, STAMPED AND SIGNED BY THE MECHANICAL CONTRACTOR PRIOR TO SUBMITTING TO THE CONSULTANT. REVIEW SHALL INCLUDE BUT NOT BE LIMITED TO: VERIFYING UNIT VOLTAGE WITH ELECTRICIAN AND/OR SITE, EQUIPMENT PERFORMANCE, DIMENSIONS AND CLEARANCES.
6.	THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
7.	INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
8.	DO NOT USE ANY NEW PERMANENT EQUIPMENT FOR TEMPORARY USE DURING CONSTRUCTION WITHOUT WRITTEN APPROVAL. WHERE SYSTEMS ARE USED AND ARE CONTAMINATED BY DUST OR DIRT, THE CONTRACTOR SHALL CLEAN IN A MANNER ACCEPTABLE TO THE CONSULTANT.
9.	MAINTAIN AS-BUILT DRAWINGS ON AN ON-GOING BASIS. DRAWINGS SHALL BE AVAILABLE FOR PERIODIC REVIEW BY THE CONSULTANT DURING CONSTRUCTION.
10.	ALL WORK SHALL COMPLY WITH APPLICABLE CODES.
11.	REMOVE ALL REDUNDANT EQUIPMENT, MATERIALS AND GARBAGE FROM SITE AND DISPOSE OF IN AN APPROVED MANNER. REDUNDANT EQUIPMENT AND MATERIALS SHALL NOT BE ABANDONED IN PLACE.
12.	ALL CUTTING AND CORING SHALL BE BY THIS CONTRACTOR. COORDINATE PATCHING WITH GENERAL CONTRACTOR. TRENCHING, EXCAVATION AND BACKFILL FOR UNDERGROUND PLUMBING SHALL BE BY THIS CONTRACTOR. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
13.	COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WITH GENERAL CONTRACTOR.
14.	MAINTAIN REQUIRED ACCESS AND CLEARANCE TO ALL EQUIPMENT AND SYSTEMS AS REQUIRED BY CODE AND AS PER MANUFACTURER'S REQUIREMENTS.
15.	TAG ALL EQUIPMENT WITH LAMACOID NAMEPLATES. TAG ALL VALVES WITH LAMACOID NAMEPLATES OR BRASS TAGS ON CHAINS.
16.	LABEL ALL NEW PIPING WITH SERVICE AND FLOW ARROWS EVERY 10'(3m) AND ON EITHER SIDE OF WALLS.
17.	THE CONTRACTOR SHALL ARRANGE FOR INSPECTIONS BY THE ENGINEER PRIOR TO CEILINGS AND WALLS BEING CLOSED IN. WHERE THIS HAS NOT BEEN ARRANGED IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE CEILING TILES OR ACCESS DOORS FOR INSPECTION AT THE DIRECTION OF THE CONSULTANT.
18.	PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE. THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.
19.	INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.
20.	UPON COMPLETION OF THE PROJECT THE CONSULTANT WILL DO A FINAL REVIEW. UPON RECEIVING THE FINAL INSPECTION REPORT, THE CONTRACTOR MUST CORRECT AND SIGN BACK THE INSPECTION REPORT INDICATING ALL DEFICIENCIES ARE COMPLETED. A RE-INSPECTION WILL ONLY BE DONE ONCE THE CONSULTANT RECEIVES THIS IN WRITING. WHERE THE CONSULTANT PERFORMS THE RE-INSPECTION AND THE WORK IS NOT COMPLETE, THE CONTRACTOR IS RESPONSIBLE FOR REIMBURSING THE CONSULTANT FOR THE FIELD REVIEW. THE FEE FOR ADDITIONAL REVIEWS WILL BE AT THE CONSULTANT'S HOURLY RATES PLUS MILEAGE AND APPLICABLE TAXES TO BE PAID DIRECTLY TO THE CONSULTANT PRIOR TO PERFORMING THE NEXT FIELD REVIEW.
21.	PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
22.	PROGRESS DRAWS SHALL INCLUDE MINIMUM \$2,500.00 FOR MANUALS AND AS-BUILT DRAWINGS. TOTAL AMOUNT SHALL REMAIN UNBILLED UNTIL MANUALS AND AS-BUILT DRAWINGS HAVE BEEN SUBMITTED AND APPROVED.
23.	PROVIDE ONE(1) ELECTRONIC COPY OF MAINTENANCE MANUAL ON USB AND BY WEB TRANSFER. MANUAL SHALL INCLUDE: - TABLE OF CONTENTS - CONTRACTOR INFORMATION - WARRANTY LETTER - SHOP DRAWINGS - O&Ms - INSPECTION & TEST REPORTS - AS-BUILT DRAWINGS AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILT'S SHALL BE STAMPED ACCORDINGLY BY THE CONTRACTOR (ALL DRAWINGS) DRAWINGS SHALL BE SUBMITTED HARD COPY IN FULL SIZE. SUBSTANTIAL COMPLETION WILL NOT BE AWARDED UNTIL THE MANUALS AND AS-BUILTS HAVE BEEN SUBMITTED TO THE CONSULTANT AND THE CONSULTANT HAS APPROVED.

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ENGINEER:	
	
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PROJECT NAME:	
PINE RIDGE SS - CHANGE ROOM RENOVATION	
SHEET TITLE:	
LEGENDS, SCHEDULES & NOTES	
DISCIPLINE:	
MECHANICAL	
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SHEET No.: 4 of 10	



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Pine Ridge SS 2155 Liverpool Road
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PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM RENOVATION

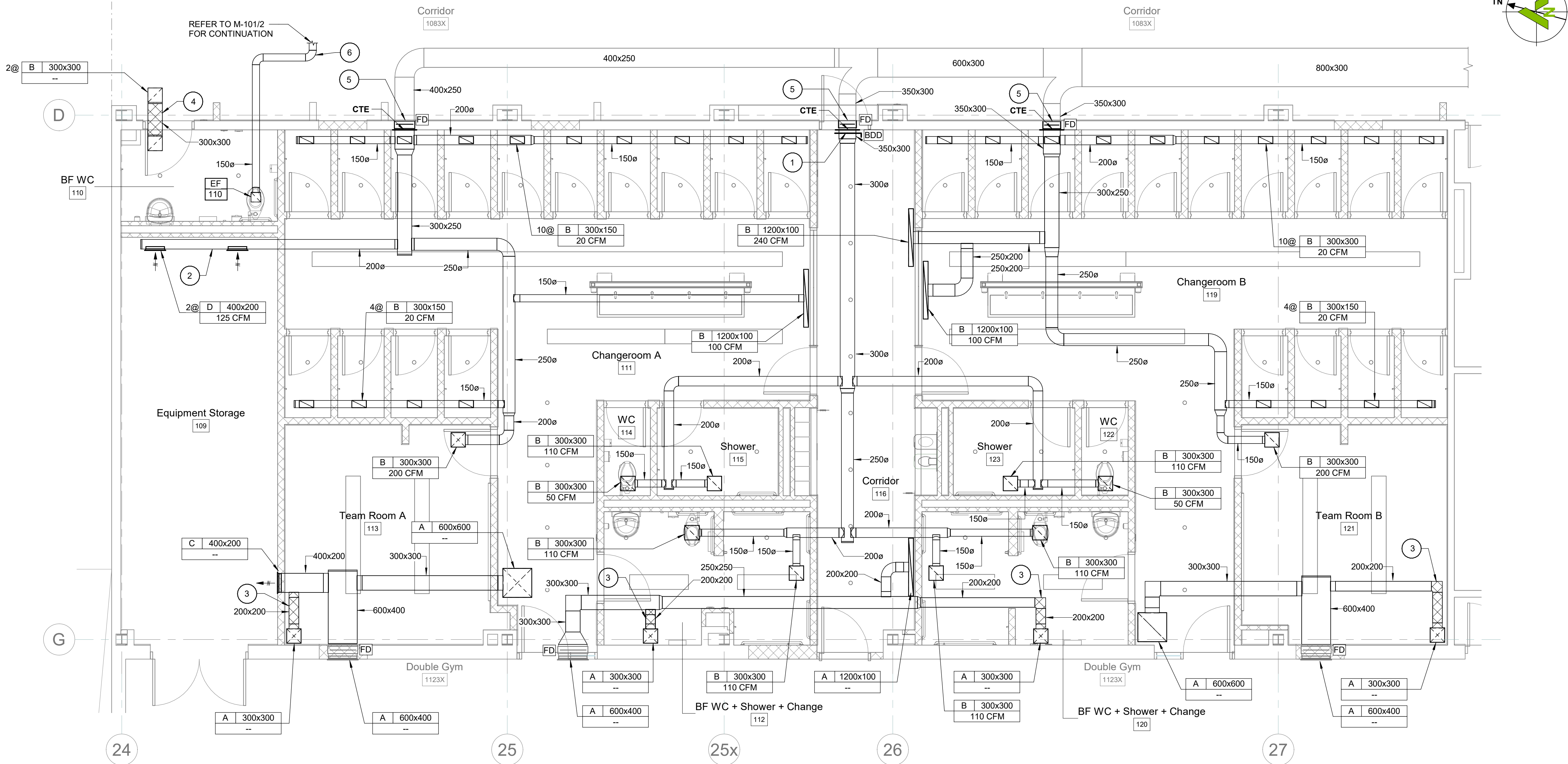
SHEET TITLE:

GROUND FLOOR SOUTH CHANGE
ROOMS - DEMOLITION HVAC

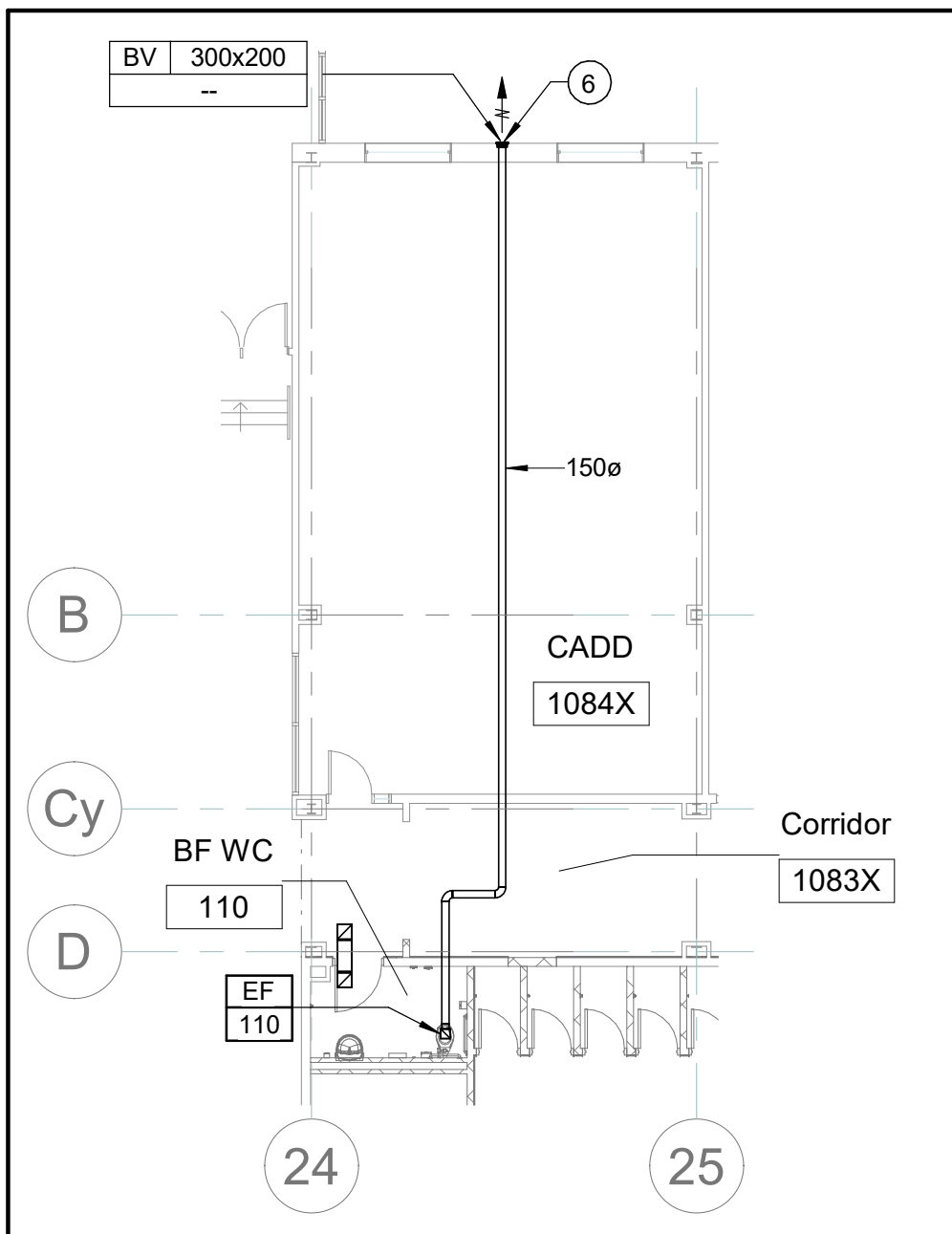
DISCIPLINE	
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MECHANICAL

DRAWER:	SR	SCALE:	AS NOTED
DESIGNER:	BRT	DATE:	2025-07-15
APPROVER:	BRT	CHECKER:	BRT
PROJECT No:	Z0023519	DRAWING No:	MD101
SHEET No:	5 of 10		



1 GROUND FLOOR SOUTH - NEW HVAC LAYOUT
SCALE: 1 : 50



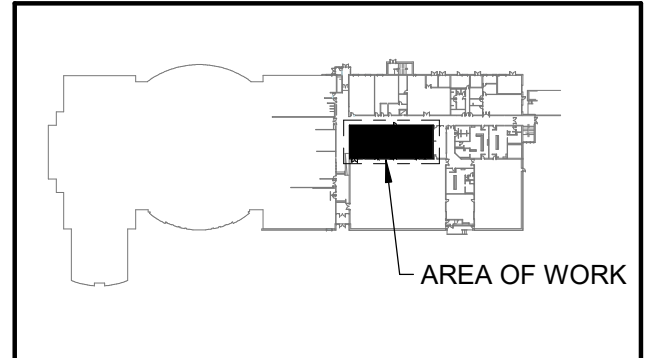
2 GROUND FLOOR SOUTH - EXHAUST DUCT ROUTING
SCALE: 1 : 150

GENERAL NEW HVAC NOTES:

1. THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO CONSULTANT.
2. REFER TO ARCHITECTURAL DRAWINGS AND/OR GENERAL CONTRACTOR FOR CEILING HEIGHTS TO ENSURE ALL SERVICES ARE CONCEALED WITHIN AVAILABLE CEILING SPACE. RUN ALL NEW SERVICES UP IN JOIST SPACE AND BETWEEN LIGHTS AS NOTED OR AS REQUIRED.
3. COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
4. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE DRYWALL CEILING AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
5. LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.
6. TEMPORARILY SEAL ALL OPEN DUCTS THROUGHOUT CONSTRUCTION TO PREVENT DUST AND DIRT FROM ENTERING THE SYSTEM. WHERE THE CONTRACTOR DOES NOT CONFORM THEY ARE RESPONSIBLE FOR CLEANING OF THE SYSTEMS IN A MANNER APPROVED BY THE CONSULTANT.

NEW MECHANICAL WORKING NOTES:

- 1 PROVIDE BACK DRAFT DAMPER IN MAIN EXHAUST DUCT TO PREVENT TRANSFER TO CHANGE ROOMS WHEN FAN IS OFF. SUPPLY ACCESS DOOR AT BDD LOCATION AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- 2 RUN NEW SPIRAL DUCTWORK EXPOSED AT HIGH LEVEL. COORDINATE PAINTING WITH GENERAL CONTRACTOR.
- 3 ACOUSTICALLY LINED ELBOW DOWN TO GRILLE. REFER TO DETAIL.
- 4 300x300 ACOUSTICALLY LINED ELBOW. REFER TO DETAIL.
- 5 PROVIDE NEW FIRE DAMPER AND INSTALL IN EXISTING E/A DUCT PENETRATION THROUGH CORRIDOR WALL.
- 6 RUN NEW 150Ø E/A DUCT FROM NEW FAN ACROSS CORRIDOR AND OUT THROUGH EXTERIOR WALL THROUGH NEW BRICK VENT. THERMALLY INSULATE LAST 2.5m BACK FROM EXTERIOR WALL.



KEY PLAN
N.T.S.

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No.	Date	Description	By
2	2025-07-15	ISSUED FOR PERMIT/TENDER	BRT
1	2025-07-02	ISSUED FOR CLIENT REVIEW	BRT

STAMPS:



DESIGNED BY

APPROVED BY

CONSULTANT(S):

ENGINEER:



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CLIENT:

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BOARD
Pine Ridge SS 2155 Liverpool Road
Pickering, Ontario L1X 2H8

PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM
RENOVATION

SHEET TITLE:

GROUND FLOOR SOUTH CHANGE
ROOMS - NEW HVAC

DISCIPLINE:

MECHANICAL

DRAFTER:

SR

SCALE:

AS NOTED

DESIGNER:

DATE:

2025-07-15

APPROVER:

CHECKER:

BRT

PROJECT No:

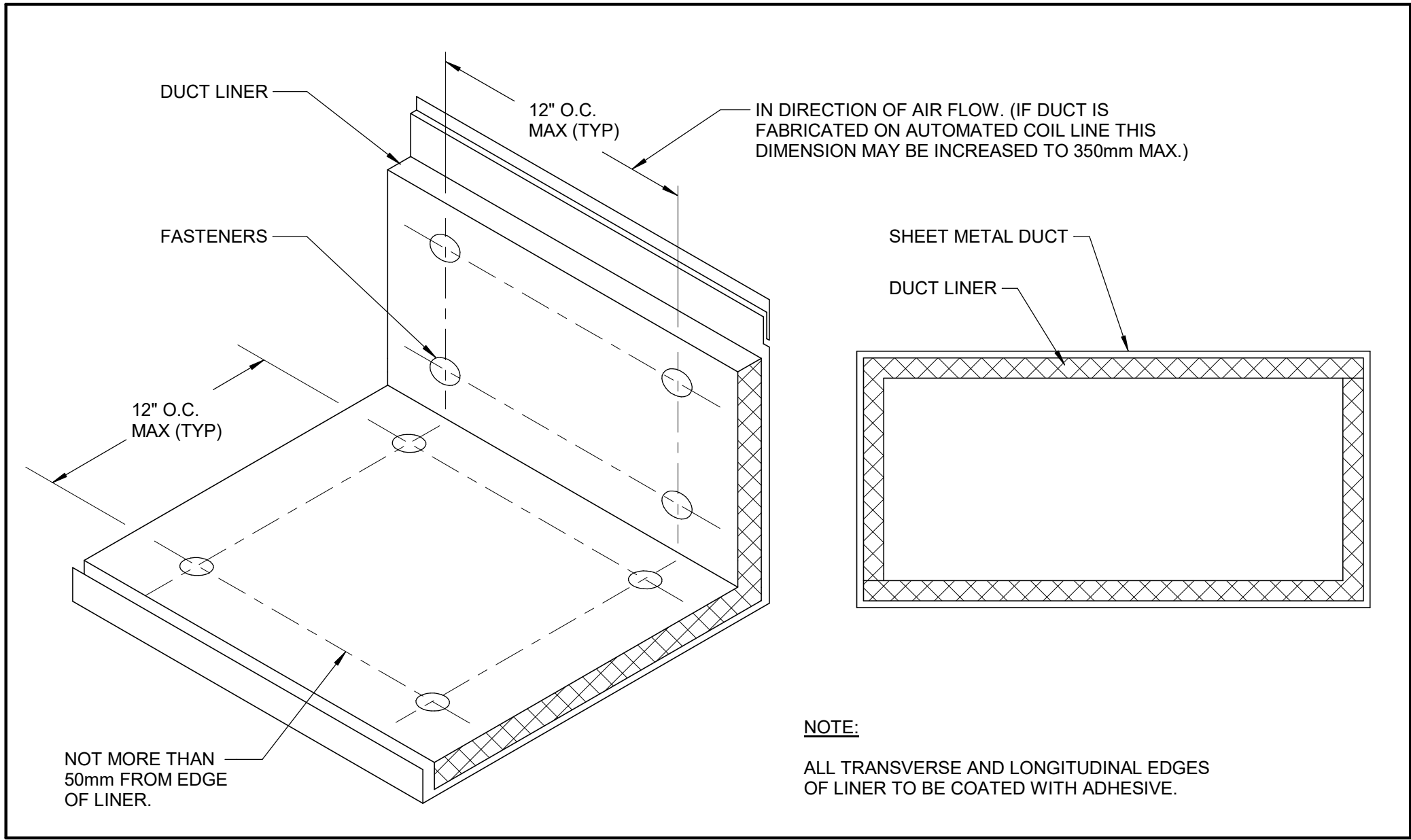
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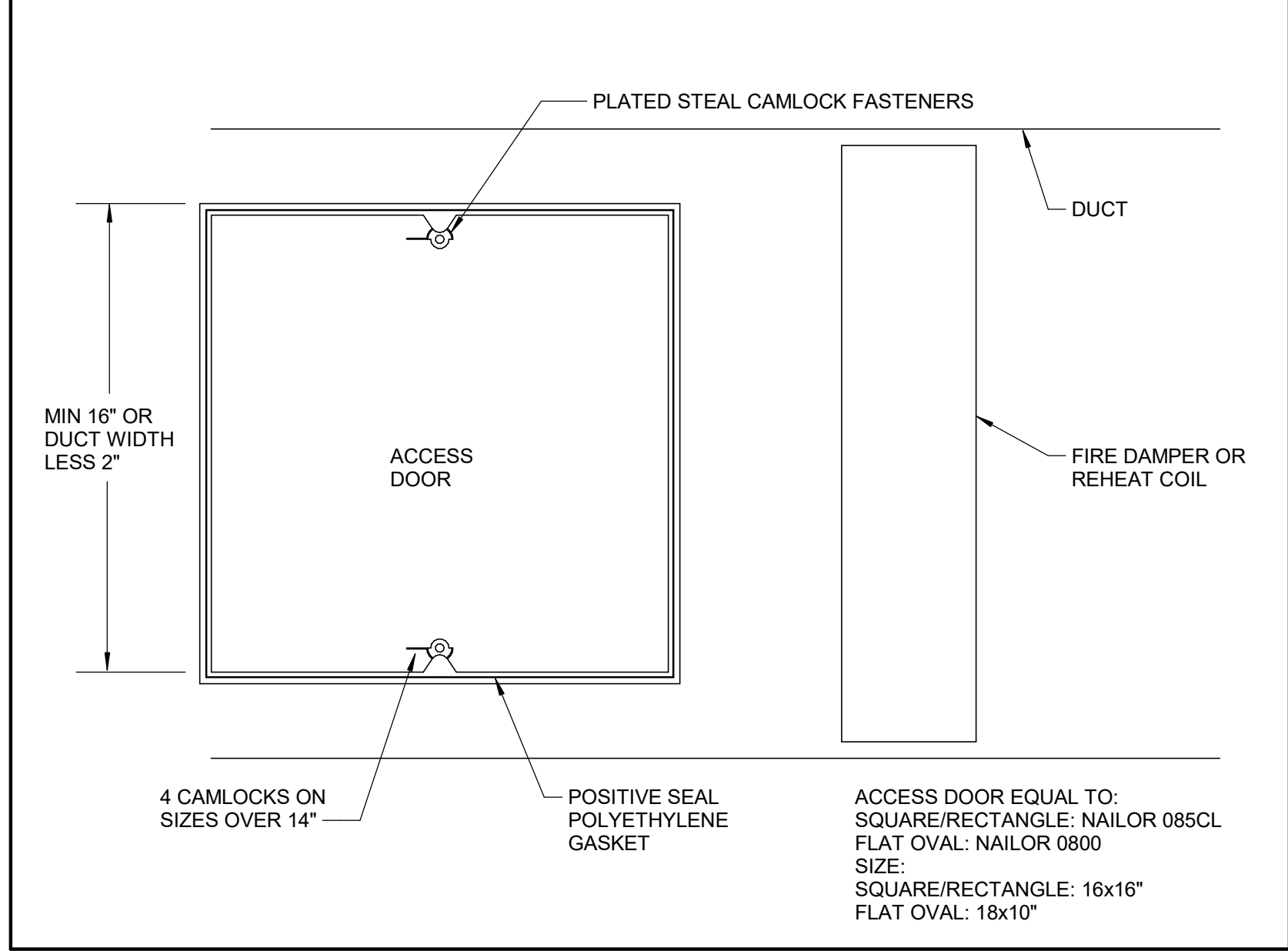
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SHEET No:

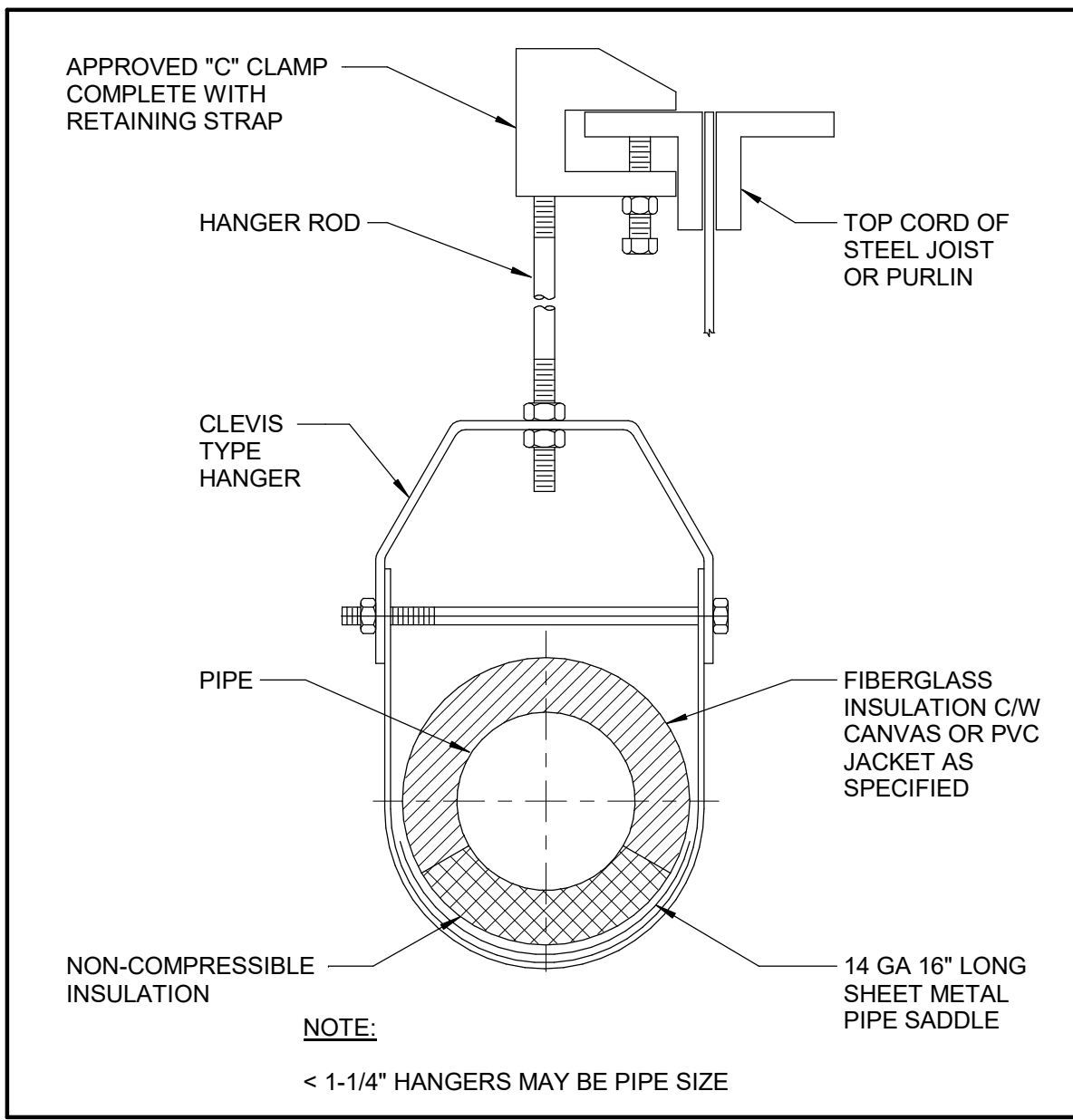
6 of 10



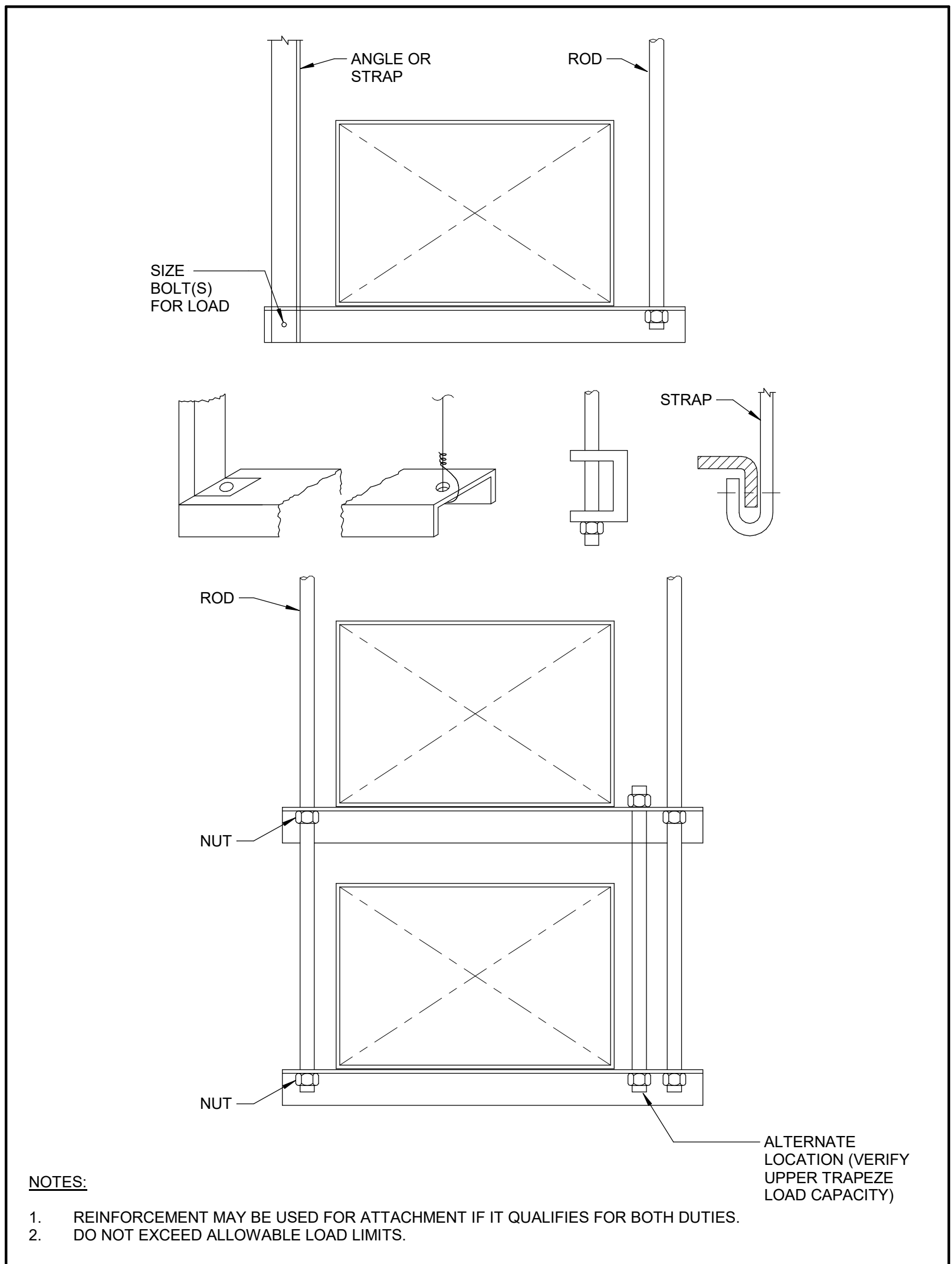
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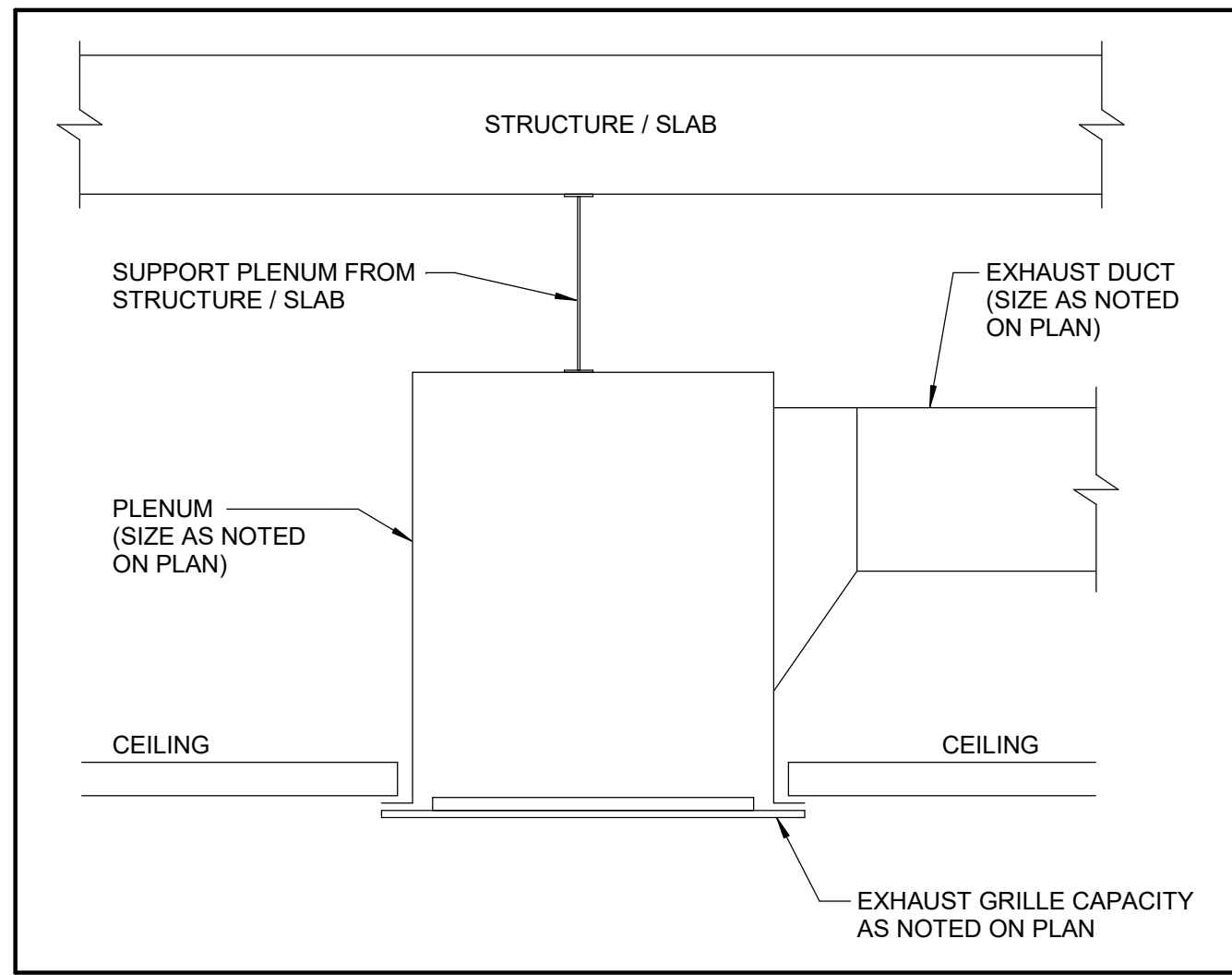
2 DUCT ACCESS DOOR DETAIL
SCALE: NTS



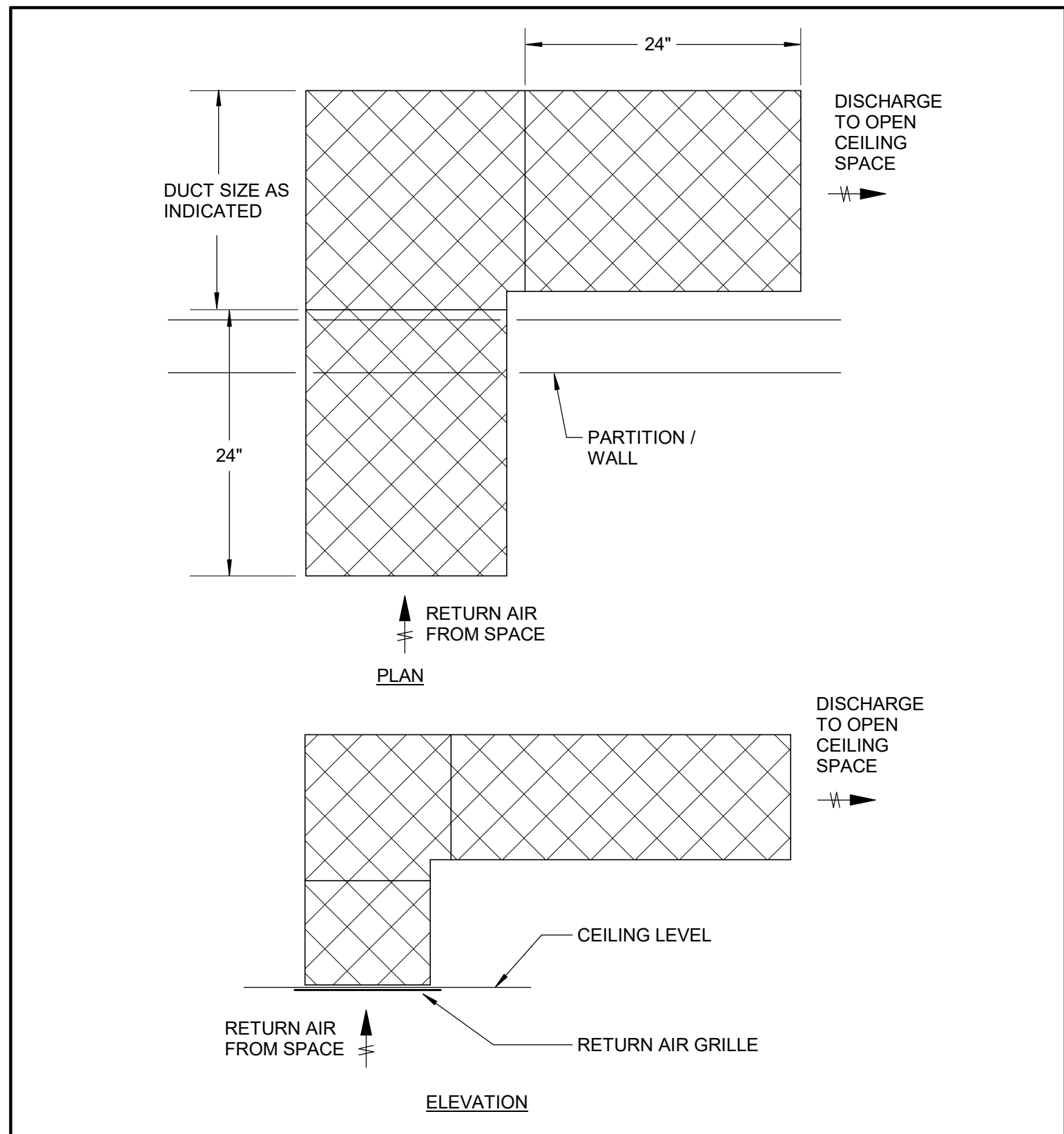
3 INSULATED PIPE HANGER DETAIL
SCALE: NTS



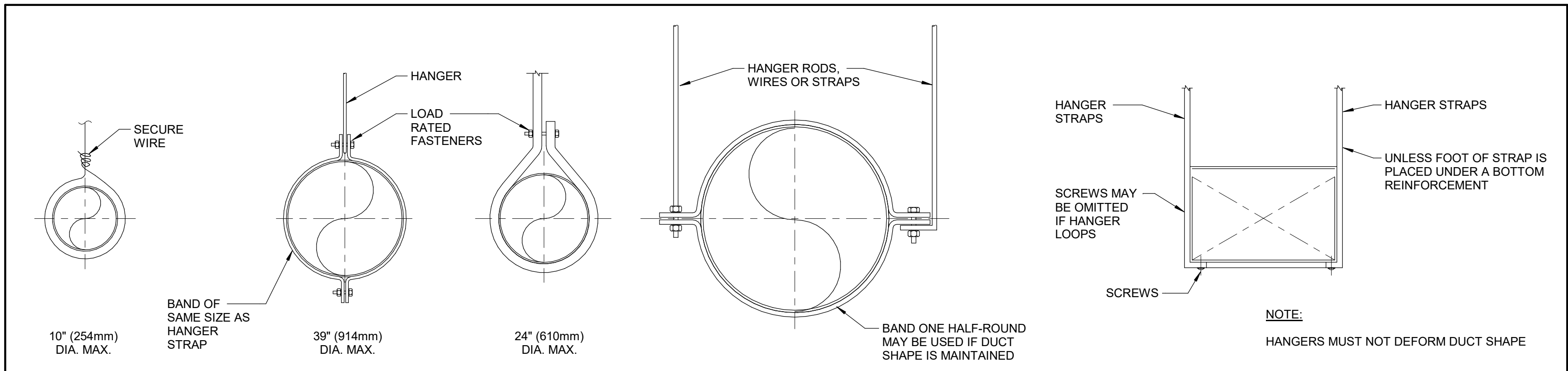
6 TRAPEZE HANGERS
SCALE: NTS



4 CEILING EXHAUST PLENUM DETAIL
SCALE: NTS



5 TRANSFER DUCT WITH SOUND ATTENUATION DETAIL
SCALE: NTS



7 STRAP HANGERS
SCALE: NTS

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Pine Ridge SS 2155 Liverpool Road
Pickering, Ontario L1X 2H8

PROJECT NAME:
PINE RIDGE SS - CHANGE ROOM RENOVATION

SHEET TITLE:
DETAILS

DISCIPLINE: MECHANICAL	
DRAFTER: SR	SCALE: AS NOTED
DESIGNER: BRT	DATE: 2025-07-15
APPROVER: BRT	CHECKER: BRT
PROJECT No.: Z0023519	DRAWING No.: M-501
SHEET No.: 7 of 10	

1. CONFIRM EXISTING CONDITIONS AND SYSTEM LAYOUT PRIOR TO PRICING AND INSTALLATION. EXISTING LAYOUT IS BASED ON ORIGINAL CONTRACT DRAWINGS AND MAY NOT BE ACCURATE.
2. ALL SPRINKLER WORK SHALL BE PERFORMED BY A RED SEAL CERTIFIED SPRINKLER AND FIRE PROTECTION INSTALLER, IN GOOD STANDING WITH THE CASA.
3. WHERE ANY SPRINKLER WORK REQUIRES SHUT DOWN OF SPRINKLER, STANDPIPE OR FIRE ALARM SYSTEMS SHALL BE DONE OUTSIDE OF SCHOOL HOURS THE CONTRACTOR SHALL PROVIDE FIRE WATCH. NOTIFY FIRE ALARM MONITORING COMPANY WHEN WORK IS BEING DONE. COORDINATE WITH OWNER AS REQUIRED.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXISTING SYSTEM LAYOUT AND SYSTEM TYPE. ANY UPGRADES SHALL MATCH EXISTING DESIGN INTENT. ANY DESIGN REQUIRED IS THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH ALL OTHER TRADES PRIOR TO PRICING AND INSTALLATION.
5. PROVIDE DESIGN DRAWINGS COMPLETE WITH HYDRAULIC CALCULATIONS SEALED AND SIGNED BY A LICENSED ONTARIO PROFESSIONAL ENGINEER. DRAWINGS SHALL BE PREPARED IN AUTOCAD. SUBMIT DRAWINGS FOR ALL COMPONENTS AND DEVICES. PERFORM AND SUBMIT WATER FLOW TEST TO CONFIRM AVAILABLE WATER FLOW & PRESSURE OTHERWISE THEY MUST PERFORM THEIR OWN TEST AND/OR COORDINATE WITH REGION. CONTRACTOR CAN RETAIN TEST FROM MUNICIPALITY WHERE ONE EXISTS WITHIN ONE(1) CALENDAR YEAR. SUBMIT DESIGN PACKAGE TO ENGINEER AND AUTHORITIES HAVING JURISDICTION.
6. UPGRADE EXISTING WET SPRINKLER SYSTEM FOR REVISED CHANGE ROOM LAYOUT.
7. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH GRILLE, DIFFUSER, AND LIGHT LOCATIONS AND WITH MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO DESIGN AND INSTALLATION OF SPRINKLER SYSTEM. LIGHTING TAKES PRECEDENCE.
8. THE CONTRACTOR SHALL DETERMINE BEST ROUTING OF SPRINKLER PIPING BY COORDINATING WITH ALL DRAWINGS. COORDINATE WITH ALL OTHER TRADES ON SITE PRIOR TO DESIGN OR INSTALLATION.
9. PROVIDE VALVES, HEADS, AND PIPING AS REQUIRED FOR A COMPLETE AND OPERATIONAL SPRINKLER AND STANDPIPE SYSTEM IN CONFORMANCE WITH NFPA 13, OBC AND LOCAL CODES.
10. CONCEAL ALL NEW PIPING IN CEILING SPACE. EXPOSED PIPING IS ACCEPTABLE IN EXPOSED/OPEN CEILING AREAS ONLY.
11. PROVIDE ACCESS DOORS IN DRYWALL CEILINGS AND WALLS FOR ACCESS TO VALVES, ETC. WHERE REQUIRED.
12. PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS.
13. PROVIDE FIRE EXTINGUISHERS C/W CABINET OR WALL BRACKETS AS NOTED, AS PER NFPA 10, AND AS REQUIRED BY LOCAL FIRE PREVENTION SERVICES. THE CONTRACTOR SHALL ARRANGE A SITE REVIEW WITH FIRE PREVENTION TO CONFIRM LOCATION OF ALL EXTINGUISHERS PRIOR TO INSTALLATION.
14. ALL REQUIRED CUTTING AND CORING IS BY SPRINKLER CONTRACTOR. COORDINATE ALL PATCHING WITH GENERAL CONTRACTOR.
15. COORDINATE INTERLOCK OF SPRINKLER SYSTEM INTO FIRE ALARM SYSTEM AND FIRE ALARM DEVICE TESTING WITH ELECTRICAL CONTRACTOR.
16. SYSTEM SHALL BE TESTED AS PER NFPA REQUIREMENTS. PROVIDE MATERIAL AND TEST CERTIFICATES SIGNED BY TECHNICIAN WHO PERFORMED THE TESTS UPON COMPLETION OF INSTALLATION AND TESTING. SUBMIT TO ENGINEER AND AUTHORITIES HAVING JURISDICTION.
17. PROVIDE OR REVISE RISER NAMEPLATES FOR EACH ZONE.
18. THE CONTRACTOR SHALL PROVIDE A LETTER STATING THE SPRINKLER [AND STANDPIPE] INSTALLATION WAS PERFORMED BY QUALIFIED SPRINKLER CONTRACTOR IN CONFORMANCE WITH NFPA 13.
19. SUBMIT A SIGN-OFF LETTER SEALED AND SIGNED BY THE SPRINKLER ENGINEER CONFIRMING THE INSTALLATION OF THE SPRINKLER SYSTEMS.
20. PROVIDE ONE(1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.

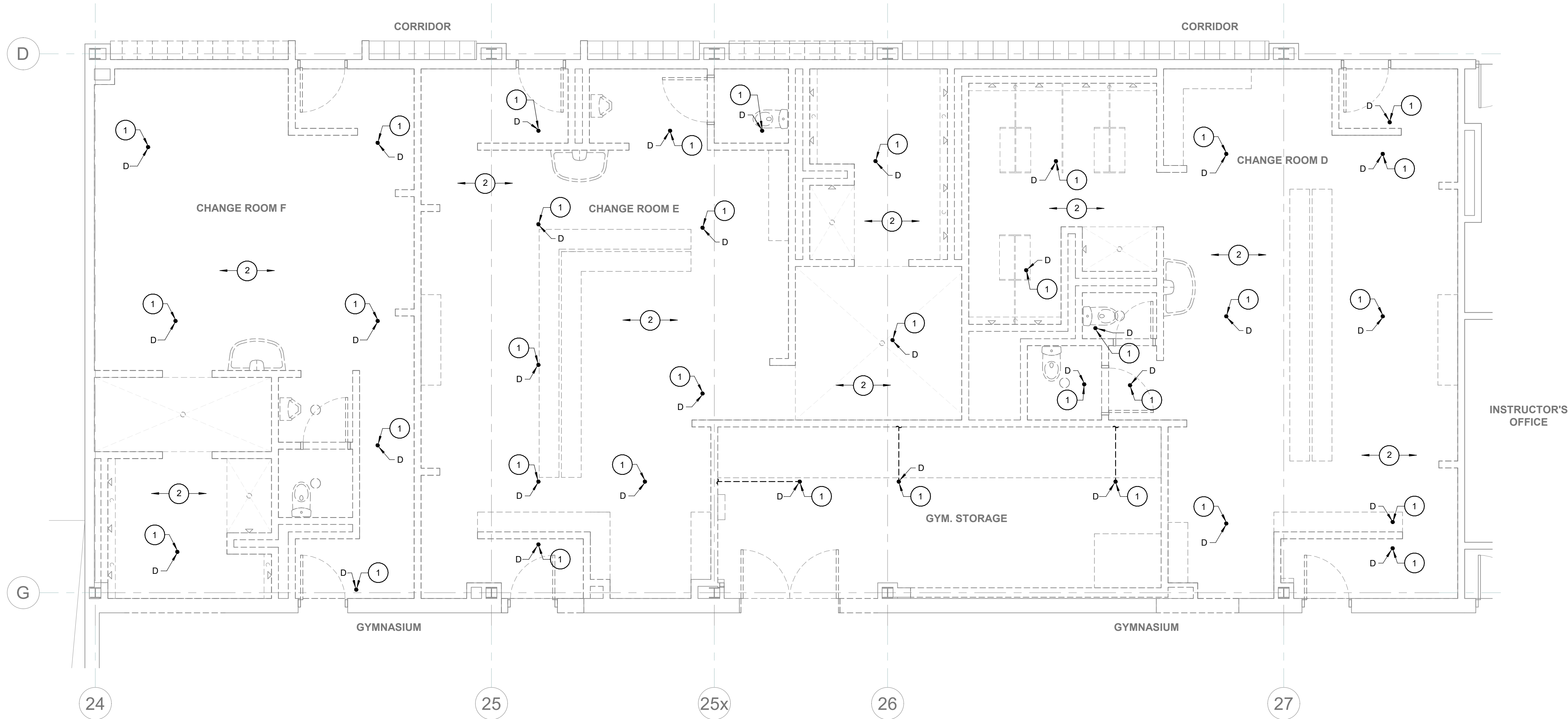
1 TYPICAL SPRINKLER HANGER DETAIL

8 of 10

F-001

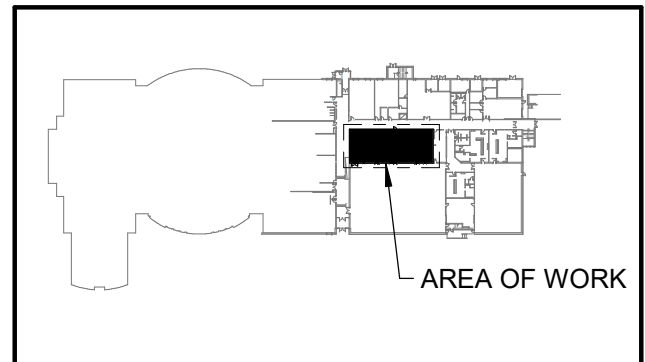
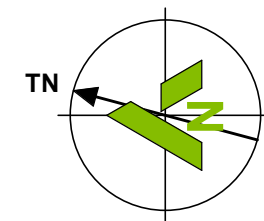
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2 GROUND FLOOR SOUTH - DEMOLITION SPRINKLER LAYOUT
SCALE: 1 : 50

- DEMOLITION SPRINKLER WORKING NOTES:**
- 1 REMOVE EXISTING SPRINKLER HEAD AND PIPING.
 - 2 REMOVE ALL REDUNDANT SPRINKLER PIPING ABOVE CEILING AS REQUIRED TO SUIT NEW SPRINKLER LAYOUT.



KEY PLAN
N.T.S.

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No.	Date	Description	By

STAMPS:



DESIGNED BY

APPROVED BY

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Pine Ridge SS 2155 Liverpool Road
Pickering, Ontario L1X 2H8

PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM RENOVATION

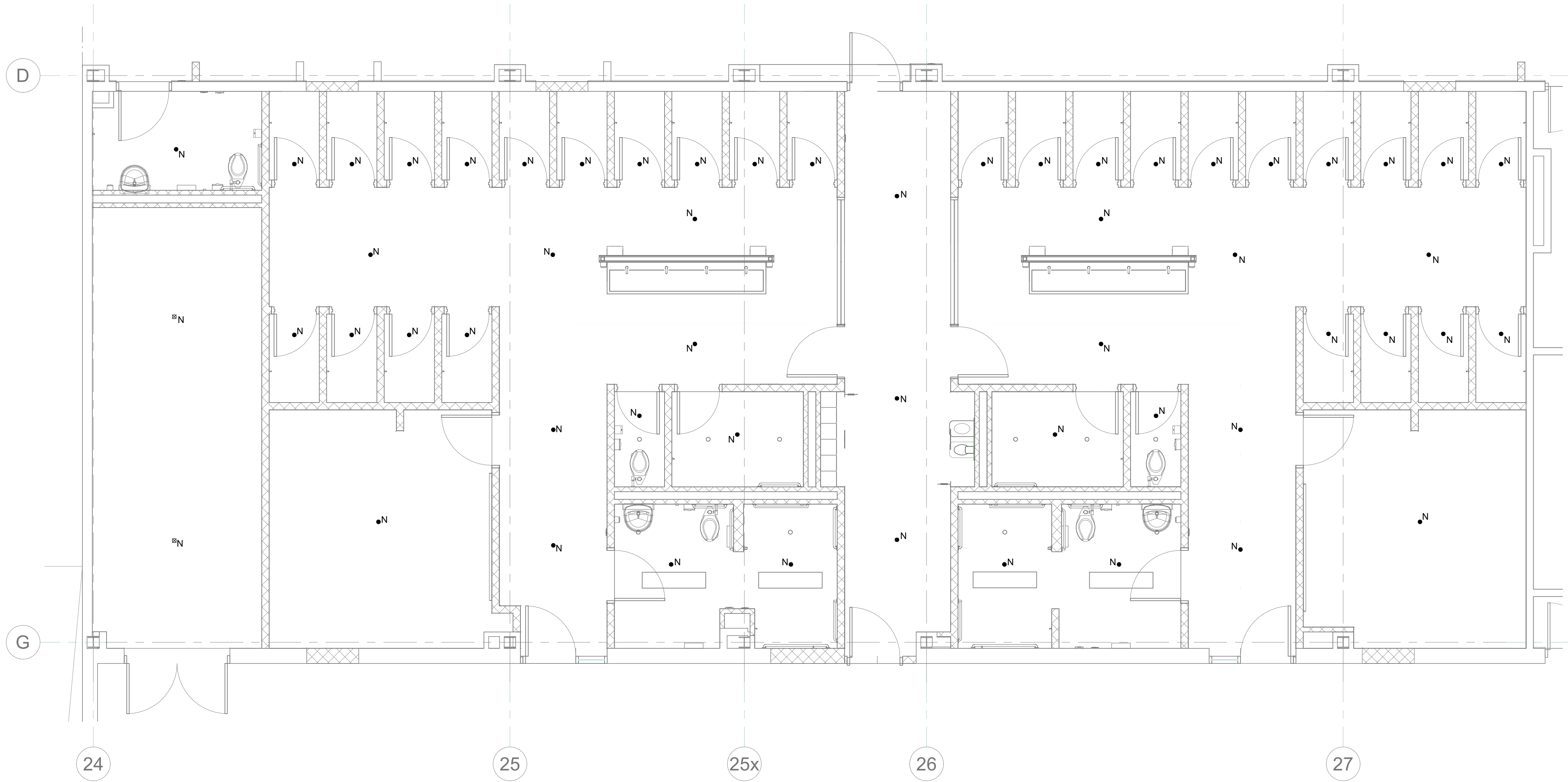
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**GROUND FLOOR PLAN SOUTH
CHANGE ROOMS - DEMOLITION
SPRINKLERS**

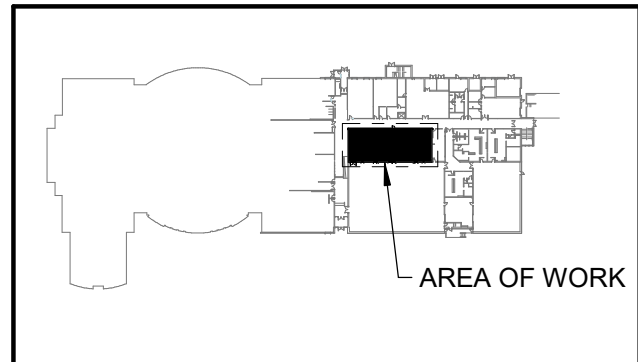
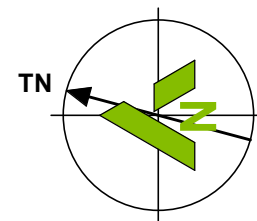
DISCIPLINE:

FIRE PROTECTION

DRAFTER: SR	SCALE: AS NOTED
DESIGNER: BRT	DATE: 2025-07-15
APPROVER: Approver	CHECKER: BRT
PROJECT No: Z0023519	DRAWING No: FD101
SHEET No: 9 of 10	



2 GROUND FLOOR SOUTH - NEW SPRINKLER LAYOUT
SCALE: 1 : 50



KEY PLAN
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APPROVED BY

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PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM
RENOVATION

SHEET TITLE:

GROUND FLOOR PLAN SOUTH
CHANGE ROOMS - NEW
SPRINKLERS

DISCIPLINE:

FIRE PROTECTION

DRAFTER:	SR	SCALE:	AS NOTED
DESIGNER:	BRT	DATE:	2025-07-15
APPROVER:	BRT	CHECKER:	BRT
PROJECT No:	Z0023519	DRAWING No:	F-101
SHEET No:	10 of 10		