OUTLET, BOLT CAPS, TOILET SEAT NOT INCLUDED. DELTA TECK 81T201-48 MANUAL WATER CLOSET FLUSH VALVE, PISTON-OPERATED DELIVERING 1.28GPF (4.8L/M) VOLUME, NON-HOLD OPEN HANDLE, CAST-BRASS BODY AND STOP.

CENTOCO #820STS.407 TOILET SEAT, EXTRA HEAVY DUTY, BLACK FINISH, FOR ELONGATED BOWL, OPEN FRONT, SOLID PLASTIC, WITH COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND NUTS. MCGUIRE #LFH166LKN3 TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 13 MM (1/2") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES. V.P. LOOSE KEYS. ESCUTCHEON AND FLEXIBLE COPPER RISERS. PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET

WC-2 FLOOR MOUNTED TOILET - VITREOUS CHINA - FLUSH VALVE

AMERICAN STANDARD MADERA FLOWISE ELONGATED #3451.001 HIGH EFFICIENCY, LOW CONSUMPTION TOILET, WHITE VITREOUS CHINA WITH EVERCLEAN ANTIMICROBIAL SURFACE WHICH INHIBITS THE GROWTH OF STAIN AND ODOR CAUSING BACTERIA MOLD AND MILDEW, ELONGATED BOWL, WHITE FINISH, FLOOR MOUNTED, SIPHON JET FLUSH ACTION, OPERATES IN THE RANGE OF 4.2 L TO 6 L (1.1 US GAL TO 1.6 US GAL) PER FLUSH, CONDENSATE CHANNEL, 305 MM X 254 MM (12" X 10") WATER SURFACE, ELONGATED BOWL, 54 MM (2-1/8") FULLY GLAZED INTERNAL TRAPWAY, 38 MM (1-1/2") DIA. TOP SPUD, FLOOR OUTLET, BOLT CAPS, TOILET SEAT NOT INCLUDED.

DELTA TECK 81T201-48 MANUAL WATER CLOSET FLUSH VALVE, PISTON-OPERATED DELIVERING 1.28GPF (4.8L/M) VOLUME, NON-HOLD OPEN HANDLE, CAST-BRASS BODY AND STOP. CENTOCO #1500STSCCSS.407 TOILET SEAT, EXTRA HEAVY DUTY, FOR ELONGATED BOWL, BLACK FINISH, OPEN FRONT, SOLID PLASTIC, LESS COVER, STAINLESS STEEL SELF-SUSTAINING CHECK HINGES, METAL FLAT WASHERS STAINLESS STEEL POSTS AND

MCGUIRE #LFH166LKN3 TOILET SUPPLY, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 13 MM (1/2") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS.

PROVIDE FLOOR FLANGE, (SAME MATERIAL AS THE CONNECTING PIPE DRAIN), WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.

LV-1 WALL HUNG BASIN - SINGLE HANDLE FAUCET - BARRIER FREE

AMERICAN STANDARD MURRO WITH EVERCLEAN #0954.004EC.020/0062.000EC.020 BASIN, 3 HOLES, 4" (102 MM) CENTER, 540 MM X 520 MM X 165 MM (21-1/4" X 20-1/2" X 6-1/2") HIGH, VITREOUS CHINA, WHITE FINISH, FOR CARRIER WITH CONCEALED ARMS, REAR OVERFLOW, RECESSED SELF-DRAINING FAUCET LEDGE, SEMI-PEDESTAL P-TRAP COVER.

MOEN COMMERCIAL #8894 M-PRESS FAUCET WITH 4" DECK PLATE, CHROME PLATED BRASS CONSTRUCTION, VANDAL RESISTANT, ADA LEVER STYLE HANDLE, CYCLE TIME ADJUSTMENT FROM 5 TO 60 SECONDS, 0.5 GPM (1.9L/MIN) VANDAL-RESISTANT MULTI-STREAM LAMINAR FLOW LIMITS WATER DISCHARGE TO A MAXIMUM OF 0.25 GPC (0.96L/CYCLE) @ 30 SECONDS OR 0.20 GPC

MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND FLEXIBLE COPPER RISERS. MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND

MCGUIRE PROWRAP #PW2000 SANITARY COVERING VANDAL-RESISTANT, FLEXIBLE SEAMLESS MOULDED CLOSED-CELL PVC RESIN, FORMULATED WITH ANTI-MICROBIAL ADDITIVE TO LIMIT THE GROWTH OF FUNGUS AND BACTERIA, TO EXPOSED PIPING (TO PROTECT AGAINST HEAT/CONTUSIONS) AS PER LOCAL CODES. WATTS #WCA-411 BASIN CARRIER, CONCEALED ARMS, WALL FLANGES TO ATTACH TO BACKING PLATE SECURED IN WALL WITH

LOCKING DEVICE AND LEVELLING SCREWS, HEAVY GAUGE STEEL UPRIGHTS WITH INTEGRAL WELDED FEET. FOR ONE UNIT: 102 MM (4") FOR TWO TO SIX UNITS IN A ROW: 152 MM (6") FINISHED METAL STUD WALL TO BACK OF PIPE SPACE.

LV-2 WALL HUNG BASIN - SINGLE HANDLE FAUCET

THE SPLASH LAB #TSL.MON.A.120 MONOLITH BASIN SYSTEM TYPE A 4 FAUCET HOLES, 30" CENTER, 120" X 24" X 5" HIGH, 100% ACRYLIC/RESIN SOLID SURFACE BASIN, WHITE FINISH, STAINLESS STEEL BRACKETS AND WHITE POWDER COAT PIPE SKIRTS (ANGLED STYLE - ADA COMPLIANT). FINISH TO BE CONFIRMED BY ARCHITECT.

MOEN COMMERCIAL #8894 M-PRESS FAUCET WITH 4" DECK PLATE, CHROME PLATED BRASS CONSTRUCTION, VANDAL RESISTANT, ADA LEVER STYLE HANDLE, CYCLE TIME ADJUSTMENT FROM 5 TO 60 SECONDS, 0.5 GPM (1.9L/MIN) VANDAL-RESISTANT MULTI-STREAM LAMINAR FLOW LIMITS WATER DISCHARGE TO A MAXIMUM OF 0.25 GPC (0.96L/CYCLE) @ 30 SECONDS OR 0.20 GPC (0.76L/CYCLE) @ 24 SECONDS. MCGUIRE #LFH165LKN3 FAUCET SUPPLIES, CHROME PLATED FINISH POLISHED BRASS, HEAVY DUTY ANGLE STOPS, 10 MM (3/8") I.P.S. INLET X 76 MM (3") LONG RIGID HORIZONTAL NIPPLES, V.P. LOOSE KEYS, ESCUTCHEON AND

MCGUIRE #8872C P-TRAP, HEAVY CAST BRASS ADJUSTABLE BODY, WITH SLIP NUT, 32 MM (1-1/4") SIZE, SHALLOW WALL FLANGE AND SEAMLESS TUBULAR WALL BEND.

SH-1 - VALVE AND HANDSHOWER - BARRIER FREE DESIGN

CHICAGO FAUCETS NO. SH-PB1-00-000, PRESSURE BALANCING MIXING VALVE, BRASS BODY, WASHERLESS CERAMIC DRIP-FREE DISC VALVE CARTRIDGE, INTEGRAL HOT WATER LIMIT STOP, SCREWDRIVER STOPS WITH SEPARATE CHECKS, BRASS WALL ESCUTCHEON, /IETAL LEVER HANDLE

CHICAGO FAUCETS NO. 624-LCP FIXED SPRAY HAND SHOWER, 9.5 LPM (2.5 GPM) MAXIMUM FLOW RATE, CONVENTIONAL SPRAY. CHICAGO FAUCETS NO. E24JKCP HAND SHOWER VACUUM BREAKER, BETWEEN SUPPLY OUTLET AND PERSONAL SHOWER HOSE. CHICAGO FAUCETS NO. 9800-036CP HAND SHOWER GRAB BAR/SLIDE BAR COMBINATION. CHROME PLATED STAINLESS STEEL CONSTRUCTION, 38MM(1-1/2") DIA X 914MM (36") HIGH BAR, ADJUSTABLE BRACKET FOR PERSONAL SHOWER, LOCKING WALL

CHICAGO FAUCETS NO. 24-69NF HAND SHOWER METAL HOSE, 1801MM (70.9") LONG, CHROME PLATED FINISH. PROVIDE P-TRAP, SAME MATERIAL AS THE CONNECTING PIPE DRAIN. ALTERNATES: SYMMONS, POWERS, CRANE, AMERICAN STANDARD.

DF-1 - COMBINATION DRINKING FOUNTAIN/BOTTLE FILLING

MURDOCK MODEL NO. A191.8-UG-BF12, NON-REFRIGERATED, NON-FILTERED, LEAD-FREE, WALL MOUNTED COMBINATION DRINKING FOUNTAIN AND BOTTLE FILLING STATION WITH VANDAL RESISTANT AND ANTI-MICROBIAL FLEXIBLE BUBBLER. STAINLESS STEEL FINISH, STAINLESS STEEL BOWL, BARRIER FREE ADA COMPLIANT, 8 GPH DELIVERY, PUSH BUTTON ACTIVATION.

TMV-1 - THERMOSTATIC MIXING VALVE - POINT-OF-USE

LAWLER TMM-1070, BRONZE BODY CONSTRUCTION, HIGH TEMPERATURE LIMIT STOP WITH SHUT OFF TEMPERATURE OF 118° (+/- 3°F) INTEGRAL RUBBER DUCK-BILL BACK-FLOW CHECKS WITHIN INLETS, TEMPERATURE ADJUSTMENT DIAL, THERMOSTATIC MECHANICAL MIXING VALVE WITH OUTLET TEMPERATURE RANGE WITHIN 95-115°F (35-46°C). ASSE 1070 APPROVED. VALVE SHALL CONTROL TEMPERATURE FROM A LOW OF 1/2GPM. 1GPM AT 10PSI AND 1.6GPM AT 20PSI DROP ACROSS THE VALVE. 3/8"Ø COMPRESSION FIT INLETS AND OUTLETS, ASSE LEAD FREE CERTIFIED. ALTERNATES: SYMMONS, POWERS, LEONARD, RADA.

FD - FLOOR DRAINS - FINISHED AREA - ADJUSTABLE STRAINER

WATTS #FD-100-C-7-A5-1 FLOOR DRAIN - EPOXY COATED, CAST IRON BODY, REVERSIBLE FLASHING CLAMP WITH PRIMARY AND SECONDARY WEEPHOLES, TRAP PRIMER CONNECTION WITH PLUG, NO HUB OUTLET. WATTS-A5-1 5" (127MM) DIAMETER, NICKEL BRONZE, ADJUSTABLE, ROUND STRAINER. ALTERNATES: ZURN, J.R. SMITH

CO - CLEANOUTS / ACCESS COVERS - ADJUSTABLE CLEANOUTS

WATTS #CO-200-R-34G CLEANOUT - EPOXY COATED, CAST IRON BODY, WITH 5" (127MM) ROUND, ADJUSTABLE, GASKETED, NICKEL BRONZE TOP, ABS PLUG WITH NEOPRENE GASKET, NO HUB OUTLET. ALTERNATES: ZURN, J.R. SMITH

ACCESS DOORS/COVERS - 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 WASHROOM SHALL BE STAINLESS STEEL. ALL OTHER PANELS SHALL BE BAKED ENAMEL PRIME COATED FOR FIELD PAINTING. MINIMUM SIZE OF PANELS SHALL BE 12" X 18" (300MM X 450MM). WHEREVER POSSIBLE 24" X 24" (600MM X 600MM) PANELS SHALL BE USED.

WATER HAMMER ARRESTORS - PPP SC SERIES

SMS INC. #SC SERIES WATER HAMMER ARRESTORS WITH BRASS PISTON IN A TYPE 'K' COPPER CASING SIZE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS TO ELIMINATE WATER HAMMER AND SHOCK FROM PIPING SYSTEM. PROVIDE WATER HAMMER ARRESTORS ON HOT AND COLD WATER SUPPLIES TO ALL QUICK VALVES, SOLENOIDS, AND PLUMBING FIXTURES, AND LOCATE IN AN UPRIGHT POSITION BETWEEN THE LAST TWO FIXTURES ON A LINE, OR HORIZONTALLY AT THE END OF LINE CLOSEST TO SUPPLY SOURCE. ON PROJECTS EXCEEDING FIVE STORIES IN HEIGHT, PROVIDE WATER HAMMER ARRESTORS ON DOMESTIC WATER RISERS AS FOLLOWS. LOCATE ARRESTORS AT THE END OF RISER OPPOSITE SUPPLY SOURCE.

TSP - TRAP SEAL PRIMERS

SIOUX CHIEF #695-ES01, SURFACE MOUNT ELECTRONIC TRAP PRIMER, SINGLE OUTLET, SOLENOID VALVE, VACUUM BREAKER, CONFIGURABLE ELECTRONIC PRIMER CONTROLLER, WATER HAMMER ARRESTOR, 120VAC POWER, 1/2" (13MM) INLET AND OUTLET. PROVIDE MANIFOLD AS REQUIRED TO SUIT NUMBER OF TRAPS.

HB-1 - HOSEBIBB

WATTS #SC8-1 HYDRANT - CAST BRASS, WALL MOUNT, WATTS MODEL 8B TAMPER-PROOF VACUUM BREAKER WITH BREAK-AWAY SCREW, ADJUSTABLE PACKING NUT CARTRIDGE, NO KINK FAUCET, 1/2" (13 MM) MALE NPT OF COPPER SWEAT CONNECTION WITH TEE HANDLE.

PLUMBING SPECIFICATIONS:

- ALL PLUMBING PRODUCTS SHALL BE "LEAD-FREE" CERTIFIED TO ANSI/NSF 372.
- ALL NEW ABOVE GROUND WATER PIPING SHALL BE TYPE 'L' HARD COPPER, CERTIFIED TO ASTM B88, WITH SOLDER JOINTS.
- DRAINAGE SYSTEM (ABOVE GROUND):
- 2-1/2"(63mm) AND OVER CAST IRON MJ PIPE WITH MJ FITTINGS AND STAINLESS STEEL CLAMPS. 2"(50mm) AND UNDER - COPPER DWV PIPE WITH WROUGHT COPPER SOLDER
- DRAINAGE SYSTEM (UNDERGROUND):
- .1 PIPE UP TO AND INCLUDING 75mm(3") SHALL BE: .1 ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH
- PVC DWV FITTINGS TO CAN/CSA B181.2 WITH SOLVENT WELD JOINT. PIPE 75mm(3") UP TO AND INCLUDING 100mm(4") SHALL BE: ULC CERTIFIED PVC 40 DWV PIPE TO CAN/CSA B181.2 COMPLETE WITH
- PVC DWV FITTINGS TO CAN/CSA B181.2 WITH SOLVENT WELD JOINT, OR ULC CERTIFIED PVC SDR 28/35 BDS PIPE TO CAN/CSA B182.1 COMPLETE WITH PVC BDS FITTINGS TO CAN/CSA B182.2 WITH SOLVENT WELD
- .3 PIPE 125mm(6") AND UP SHALL BE:
- .1 ULC CERTIFIED PVC SDR 28/35 SEWER PIPE TO CAN/CSA B182.2 COMPLETE WITH PVC FITTINGS TO CAN/CSA B182.2 WITH RING GASKET
- VENTS PASSING THROUGH ROOF SHALL USE HEAVY GAUGE, SEAMLESS, SPUN ALUMINUM PRE-INSULATED, VANDAL PROOF VENT FLASHING AS SUPPLIED BY NATIONAL ROOFING SUPPLY OR THALER METAL
- ALL NEW PIPE HANGERS SHALL BE:
 - EPOXY COATED CLEVIS TYPE WITH THREADED SUSPENSION RODS WHERE HANGER DIRECTLY TOUCHES PIPING.
 - ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS. WHERE HANGERS WRAP AROUND OUTSIDE OF PIPE INSULATION. PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION. EXCEPT FOR SIZES LESS THAN/EQUAL TO 1-1/4"Ø, INSULATION CAN WRAP AROUND HANGERS.
 - 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 PROVIDE HANGER WITHIN 12"(300mm) OF EVERY ELBOW
- PROVIDE A SUPPLY SHUT OFF VALVE ON HOT, COLD AND/OR TEMPERED WATER SUPPLY TO EACH FIXTURE. SUPPLY SHUT OFF SHALL BE EQUAL TO MCGUIRE
- BALL VALVES SHALL BE LEAD FREE WITH SOLDERED OR THREADED ENDS. BALL VALVES SHALL BE EQUAL TO KITZ #858 & #859. ALL VALVES SHALL BE LINE SIZE.
- CHECK VALVES SHALL BE LEAD FREE. CHECK VALVES 2" AND SMALLER SHALL BE EQUAL TO KITZ #822 & #823 WITH SOLDER OR THREADED ENDS.
- 10. FLEXIBLE SUPPLIES ARE NOT ACCEPTABLE FOR FLUSH TANK TOILETS OR ANY EXPOSED INSTALLATION, WHERE SUPPLIES ARE INSTALLED UNDER COUNTER OR BEHIND SHROUDS FLEXIBLE SUPPLIES ARE ACCEPTABLE.
- REFER TO PLUMBING FIXTURE SPECS INCLUDING FIXTURES, TRAP SEAL PRIMERS, WATER HAMMER ARRESTORS, ACCESS DOORS, ETC.
- 12. INSULATION: EXTERNAL PIPE INSULATION SHALL BE RIGID, SECTIONAL FIBERGLASS TYPE AND BE COMPLETE WITH FACTORY APPLIED 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.
 - INSULATE DCW, DHW AND DTW PIPING.
 - INSULATE VENT LINES 1.5m BACK FROM ROOF. INSULATION THICKNESS: 1"(25mm)

- 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. 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 FOR FIELD PAINTING TAPING BEADING TO PROVIDE FINISH OF DRYWALL JOINTS.
- 14. TEST ALL BACKFLOW PREVENTERS AND SUBMIT "CROSS CONNECTION REPORT" TO CONSULTANT.

PLUMBING ABBREVIATIONS		
EX	EXISTING TO REMAIN	
AFF	ABOVE FINISHED FLOOR	
CTE	CONNECT TO EXISTING	
C/W	COMPLETE WITH	
BFP	BACK FLOW PREVENTER	
НВ	HOSE BIBB	
RWL	RAIN WATER LEADER	
TMV	THERMOSTATIC MIXING VALVE	
TSP	TRAP SEAL PRIMER	

PLUMBING NOTES:

PROVIDE BEFORE AND AFTER SCOPING/FLUSHING.

GENERAL CONTRACTOR. COORDINATE WITH SAME.

- PROVIDE CLEANOUTS AS REQUIRED BY CODE. SIZE OF CLEANOUTS TO BE SAME SIZE AS SANITARY LINES.
- PROVIDE ALL TRENCHING, EXCAVATING AND BACKFILL FOR UNDERGROUND PLUMBING. ALL SAW CUTTING AND RESTORATION OF CONCRETE FLOOR IS BY
- PROVIDE NEW PLUMBING VENTS THROUGH GROUND FLOOR, SECOND FLOOR AND THROUGH ROOF AS REQUIRED BY CODE OR TIE INTO EXISTING WHERE POSSIBLE. SUPPLY AND INSTALL ROOF VENTS AS PER SPECIFICATIONS. ALL ROOFING WORK INCLUDING CUTTING. FLASHING AND MODIFICATIONS TO ROOF MEMBRANE SHALL BE BY GENERAL CONTRACTOR. COORDINATE WITH SAME.
- PROVIDE ISOLATION VALVES AT ALL FIXTURES.
- INSULATE ALL NEW DOMESTIC HOT, COLD AND TEMPERED WATER PIPING WITH 1"(25mm) INSULATION. PROVIDE PVC JACKET OVER INSULATION IN EXPOSED
- ALL NEW HOSE BIBBS TO BE COMPLETE WITH VACUUM BREAKERS.
- PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.
- PROVIDE FIRE STOPPING AROUND ALL PIPING THROUGH FIRE SEPARATIONS IN ACCORDANCE WITH CAN/ULC-S115.
- COORDINATE EXACT LOCATION OF NEW FLOOR DRAINS WITH GENERAL CONTRACTOR TO SUIT FLOOR SLOPE.
- PROVIDE TRAP SEAL PRIMER FOR ALL FLOOR DRAINS USING PRIMER SPECIFIED IN PLUMBING FIXTURE SCHEDULE. PRIMERS SHALL BE CONCEALED. MOUNT IN CEILING SPACE AND RUN LINE CONCEALED DOWN WALL AND UNDER FLOOR TO
- LABEL ALL NEW PIPING COMPLETE WITH SERVICE AND FLOW ARROWS. LABELS SHALL BE MAX 3m(10') SPACING AND ON EITHER SIDE OF WALLS.
- SUPPLY ACCESS DOORS WHERE REQUIRED AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. REFER TO PLUMBING FIXTURE SCHEDULE.
- PROVIDE ESCUTCHEONS AROUND WATER AND SANITARY PIPING THROUGH WALL, FLOOR OR MILLWORK AT ALL FIXTURES.
- 15. LABEL CEILING GRID AT ACCESS TO ALL DEVICES.
- 16. FLUSH AND PERFORM A VIDEO INSPECTION OF ALL UNDERGROUND PIPING SYSTEMS AFTER CONSTRUCTION AND IMMEDIATELY PRIOR TO APPLYING FOR SUBSTANTIAL COMPLETION.

PLUMBING LEGEND

NEW **EXISTING** DEMOLITION ______ ----SAN----DEMO ABOVEGROUND SANITARY —— - —DCW— - —— DOMESTIC COLD WATER (DCW) — - - — DHW— - - — DOMESTIC HOT WATER (DHW) ——DTW— DOMESTIC TEMPERED WATER LINE (DTW) ----SAN---ABOVEGROUND SANITARY LINE - - SAN- - -UNDERGROUND SANITARY LINE - - STM- - -UNDERGROUND STORM LINE ACID DRAIN LINE ____V_____V____ PLUMBING VENT ⊕ FD FLOOR DRAIN co _⊢co STACK / FLOOR CLEANOUT HOSEBIBB (HB) +WC-1 FIXTURE TAG TYPE TYPE OF EQUIPMENT **EQUIPMENT** ID NUMBER DESIGNATION \longrightarrow **ELBOW RISING** ELBOW DROPPING \longrightarrow BRANCH RISING FROM TEE \leftarrow \leftarrow BRANCH DROPPING FROM TEE SHUT-OFF BALL VALVE

GENERAL NOTES:

- WORK TO BE COMPLETED OUTSIDE REGULAR HOURS: 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. ANY WORK INSIDE OR OUTSIDE, THAT CREATES RISK TO BUILDING
- OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.
- OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.
- THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.
- 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.
- 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
- THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.
- INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
- 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.
- 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.
- 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.
- 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.
- COORDINATE ROOFING FOR DUCT AND PIPE ROOF PENETRATIONS WITH GENERAL CONTRACTOR.
- 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. PERFORM TESTING AND START UP OF ALL SYSTEMS AS REQUIRED BY CODE, THE CONSULTANT, MANUFACTURER'S REQUIREMENTS, AND AUTHORITIES HAVING
- INSTRUCT AND DEMONSTRATE TO THE OWNER ON PROPER OPERATION OF THE SYSTEM. RECORD AND SUBMIT A LOG DATED AND SIGNED BY ALL ATTENDEES.

JURISDICTION. SUBMIT REPORTS TO THE CONSULTANT.

- 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
- PROVIDE ONE (1) YEAR WARRANTY ON ALL MATERIAL AND LABOUR FROM THE DATE OF SUBSTANTIAL COMPLETION.
- 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.
- 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-BUILTS 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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2	2025-07-15	ISSUED FOR PERMIT/TENDER	BRT
1	2025-07-02	ISSUED FOR CLIENT REVIEW	BRT
Nο	Date	Description	Bv

ONSULTANT(S):



415 Baseline Road West Bowmanville, ON L1C 5M2

T 905.697.4464 F 905.697.0443

DURHAM DISTRICT SCHOOL

www.cima.ca

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

HEET TITLE:

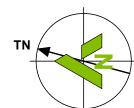
LEGENDS, SCHEDULES & NOTES

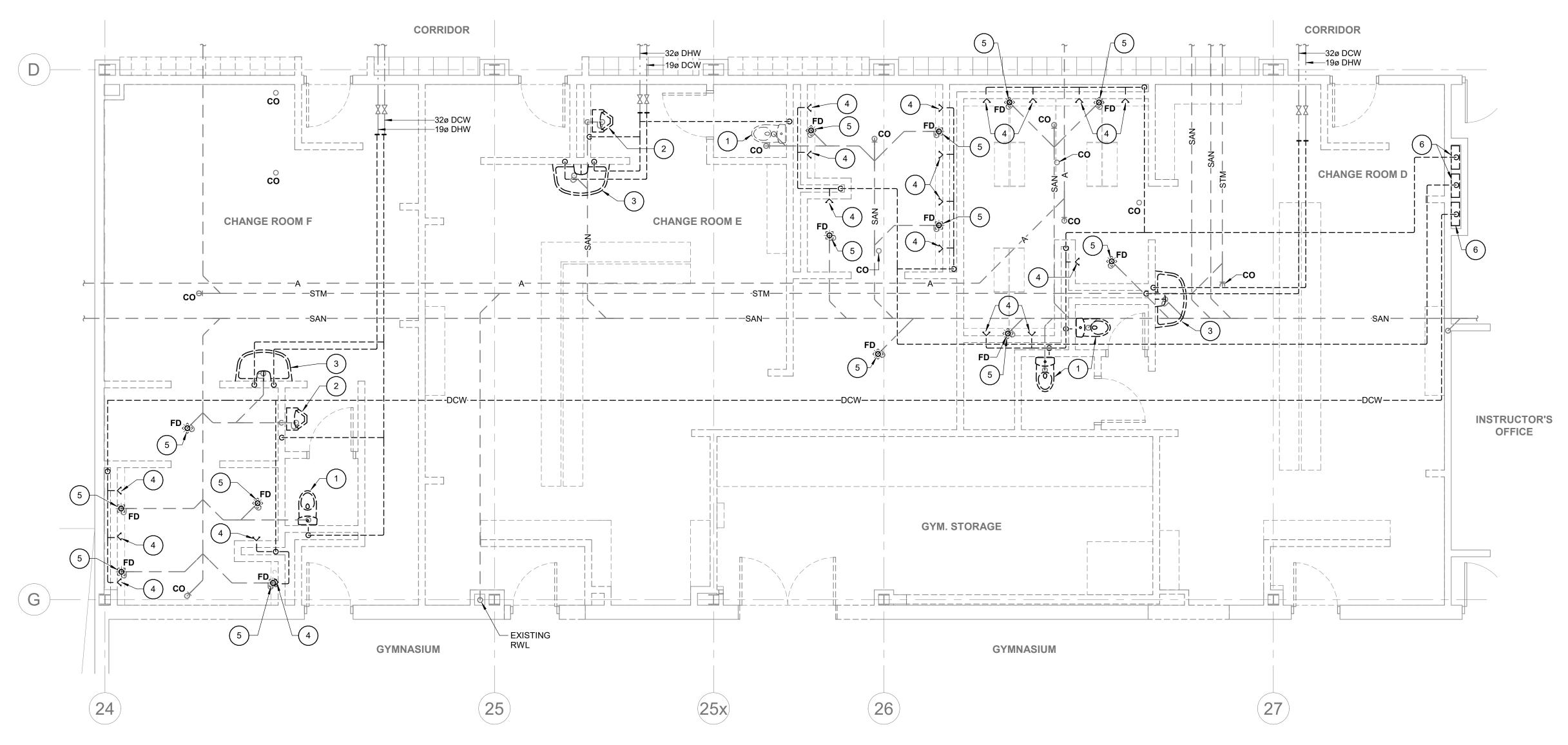
PINE RIDGE SS - CHANGE ROOM

RENOVATION

DISCIPLINE:		PLUM	IBING	
DRAFTER:			SCALE:	
	SR			AS NOTED
DESIGNER:			DATE:	
	BRT			2025-07-15
APPROVER:			CHECKER:	

Z0023519 P-001 1 of 10





GROUND FLOOR SOUTH - DEMOLITION PLUMBING LAYOUT

GENERAL DEMOLITION PLUMBING NOTES:

- 1. THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 2. SCOPE/CAMERA EXISTING UNDERGROUND SANITARY AND STORM PIPING THROUGH WORK AREA TO CONFIRM CONDITION OF PIPE, ROUTING AND INVERTS. SUBMIT REPORT AND VIDEO ON USB.
- 3. SCAN FLOOR PRIOR TO FLOOR CUTS AND UNDERGROUND PIPING INSTALLATION.
- 4. DISCONNECT AND REMOVE <u>ALL</u> REDUNDANT EQUIPMENT, FIXTURES, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.
- ABANDON ANY REDUNDANT UNDERGROUND SERVICES AND CAP FLUSH WITH FLOOR. REMOVE REDUNDANT UNDERGROUND SERVICES WHERE REQUIRED TO SUIT NEW UNDERGROUND SERVICES.
- 6. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.
- ANY REDUNDANT RISERS CAN REMAIN WITHIN EXISTING WALLS (WHERE WALLS ARE SCHEDULED TO REMAIN) BUT SERVICES SHALL BE CUT AND CAPPED WITHIN WALL SO FACE OF WALL CAN BE PATCHED AND FINISHED SMOOTH.
- MAINTAIN VENT PIPING FOR REUSE WHERE POSSIBLE AND REMOVE ANY

DEMOLITION WORKING NOTES:

- 1) REMOVE EXISTING TOILET C/W ALL DCW SERVICES. REMOVE FLANGE AND CAP SANITARY SERVICES BELOW FLOOR LEVEL.
- 2 REMOVE EXISTING URINAL AND ASSOCIATED SOLENOID VALVE. REMOVE ALL DCW SERVICES AND ABOVEGROUND SAN SERVICES. CAP SANITARY BELOW FLOOR.
- (3) REMOVE EXISTING WASHFOUNTAIN AND ALL ACCESSORIES AND ALL DCW, DHW & ABOVEGROUND SAN SERVICES. CAP SANITARY BELOW FLOOR.
- 4 REMOVE EXISTING SHOWER HEAD, MIXING VALVE AND ALL PIPING AND TRIM. REMOVE DTW SERVICES.
- 5 REMOVE EXISTING FLOOR DRAIN AND CAP SANITARY SERVICES BELOW FLOOR.
- 6 REMOVE EXISTING MIXING VALVE AND ALL REDUNDANT DCW, DHW & DTW SERVICES.

AREA OF WOR

KEY PLAN

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DURHAM DISTRICT SCHOOL BOARD

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

PROJECT NAME:

PINE RIDGE SS - CHANGE ROOM RENOVATION

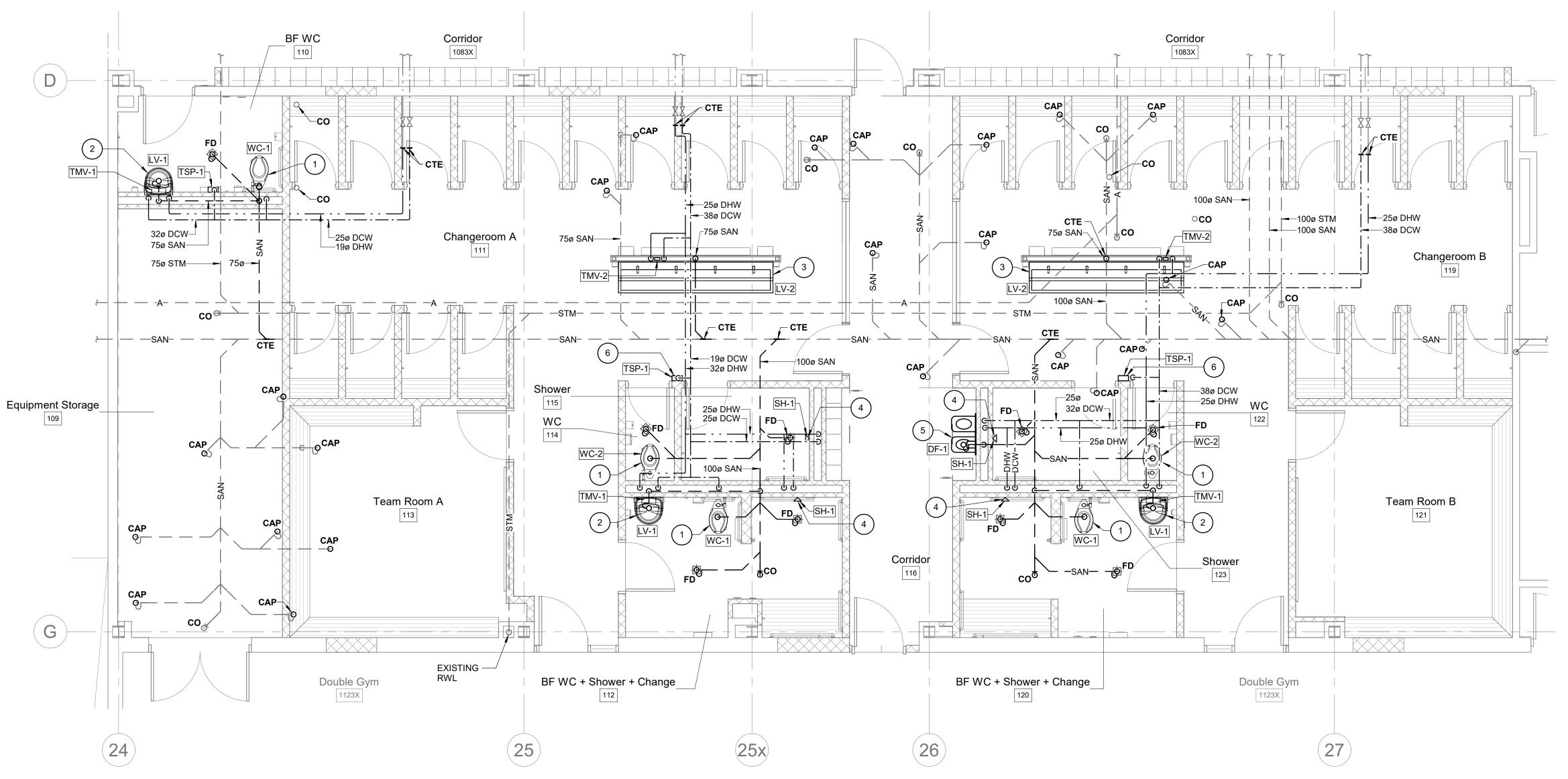
SHEET TITLE:

GROUND FLOOR SOUTH CHANGE ROOMS - DEMOLTION PLUMBING

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

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GROUND FLOOR SOUTH - NEW PLUMBING LAYOUT

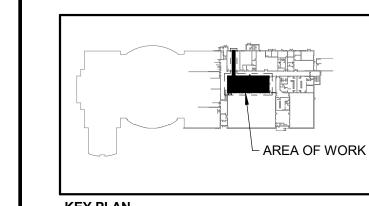
TYPICAL PLUMBING PIPE SIZING					
	DCW	DHW	DTW	SAN.	VENT
WC (FLUSH VALVE)	25Ø			75Ø	38∅
LAVATORY	13Ø	13Ø	13Ø	32Ø	32Ø
SHOWER	13Ø	13Ø	13Ø	38Ø	32Ø
SINK (DOMESTIC)	13Ø	13Ø		38Ø	32Ø
MOP SINK	13Ø	13Ø		38Ø	32Ø
DRINKING FOUNTAIN	13Ø			32Ø	32 Ø
HOSEBIBB	19Ø				
75Ø FD				75Ø	38Ø
100Ø FD				100Ø	38Ø
PROVIDE ISOLATION VALVES AT ALL FIXTURES					

GENERAL NEW PLUMBING NOTES:

- THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO CONSULTANT.
- SCOPE/CAMERA EXISTING UNDERGROUND SANITARY AND STORM PIPING THROUGH WORK AREA TO CONFIRM CONDITION OF PIPE, ROUTING AND INVERTS. SUBMIT REPORT AND VIDEO ON USB.
- 3. SCAN FLOOR PRIOR TO FLOOR CUTS AND UNDERGROUND PIPING INSTALLATION.
- 4. 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.
- 5. COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
- 6. COVER ALL FLOOR DRAINS DURING CONSTRUCTION TO PREVENT DEBRIS FROM FALLING IN DRAINS OR GROUT BEING POURED DOWN DRAINS.
- PROVIDE NEW PLUMBING VENTS THROUGH SECOND FLOOR AND THROUGH ROOF AS REQUIRED OR TIE INTO EXISTING WHERE POSSIBLE.
- INSULATE AND LABEL ALL NEW PIPING. PROVIDE PVC JACKET ON ALL NEW EXPOSED PIPING.
- FIRE STOP ALL <u>EXISTING AND NEW</u> PIPING THROUGH RATED WALLS IN AREA OF
- 10. SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE DRYWALL CEILING
- AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- 11. THE CONTRACTOR SHALL FLUSH, SCOPE, AND PROVIDE VIDEO INSPECTION OF THE SANITARY SYSTEM AFTER COMPLETION OF WORK AND PRIOR TO SUBSTANTIAL COMPLETION. FLUSHING, SCOPING AND VIDEO SHALL INCLUDE AREA OF WORK TO WHERE IT TIES INTO THE MAIN. SUBMIT REPORT AND VIDEO ON USB.

NEW WORKING NOTES:

- (1) 25Ø DCW DOWN IN CHASE TO NEW FLOOR MOUNTED FLUSH VALVE WATER CLOSET.
- 2 13Ø DCW & DHW DOWN IN CHASE TO NEW WALL LAVATORY. RUN 13Ø DCW & DHW TO NEW TMV AND 13Ø DTW TO HOT SIDE OF FAUCET. COORDINATE INSTALLATION OF CARRIER AND MOUNTING HEIGHT WITH GENERAL CONTRACTOR. RUN NEW SANITARY THROUGH CHASE AS REQUIRED TO TIE INTO NEW UG SAN SERVICES.
- 3 25Ø DCW & DHW DOWN IN CHASE TO NEW TMV. SUPPLY ACCESS DOOR AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION AT NEW TMV LOCATION IN CHASE. RUN 13Ø DTW TO EACH LAV FAUCET. COORDINATE INSTALLATION OF CARRIER AND MOUNTING HEIGHT WITH GENERAL CONTRACTOR. RUN NEW SANITARY THROUGH CHASE AS REQUIRED TO TIE NEW COMMON 50Ø SAN INTO NEW UG SAN SERVICES.
- 25Ø DCW & DHW DOWN IN CHASE TO NEW SHOWERHEAD MIXING VALVE. PROVIDE SHOWERHEAD AND ALL ASSOCIATED TRIM. CONFIRM MOUNTING HEIGHTS WITH GENERAL CONTRACTOR.
- 13Ø DCW DOWN IN CHASE TO NEW COMBINATION BOTTLE FILLER/DRINKING FOUNTAIN. COORDINATE MOUNTING HEIGHT WITH GENERAL CONTRACTOR. RUN SANITARY THROUGH PARTITION WALLS UNTIL CLEAR OF CORRIDOR WALL BELOW.
- 6 PROVIDE NEW TRAP SEAL PRIMER ABOVE CEILING IN ACCESSIBLE LOCATION. SUPPLY ACCESS DOOR AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION. COORDINATE POWER REQUIREMENTS WITH ELECTRICAL CONTRACTOR.
- (7) [TBC] PROVIDE NEW HOSEBIBB WITHIN CHASE. SUPPLY NEW LOCKABLE ACCESS DOOR IN CHASE WALL AND TURN OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.



KEY PLAN N.T.S.

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DURHAM DISTRICT SCHOOL BOARD

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

CT NAME:

PINE RIDGE SS - CHANGE ROOM RENOVATION

SHEET TITLE:

GROUND FLOOR SOUTH CHANGE ROOMS - NEW PLUMBING

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

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ALL ROUND DUCTWORK SHALL BE SPIRAL. COORDINATE WITH GENERAL CONTRACTOR FOR PAINTING OF EXPOSED DUCTWORK.

2. DUCT ACCESS DOORS

DUCT ACCESS DOORS SHALL BE EQUAL TO NAILOR 085CL(SQUARE) 0R 0800(OVAL). REFER TO DETAIL.

HOT WATER HEATING PIPING:

PIPING UP TO INCLUDING 2"(50mm): PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH MALLEABLE STEEL THREADED SCREW FITTINGS OR COPPER WITH SOLDER JOINTS.

PIPING 2-1/2"(63mm) AND OVER: PIPING SHALL BE BLACK STEEL SCHEDULE 40 WITH WELDED FITTINGS.

BRASS ADAPTERS SHALL BE PROVIDED AT ALL CONNECTIONS BETWEEN COPPER TUBING AND FERROUS PIPING.

PROVIDE AUTOMATIC AIR VENTS C/W BALL VALVE AT ALL HIGH POINTS. REFER TO SPECIFICATIONS BELOW.

PROVIDE DRAIN VALVES C/W HOSE CONNECTION AND CAP AT ALL LOW POINTS AND AS NOTED ON DETAILS.

ALLOW FOR ANY CHEMICAL TREATMENT OR GLYCOL FILL TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS.

PIPE HANGERS:

ADJUSTABLE WROUGHT IRON CLEVIS TYPE AND/OR ADJUSTABLE RING WITH THREADED SUSPENSION RODS.

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

WHERE HANGERS WRAP AROUND OUTSIDE OF PIPE INSULATION, PROVIDE SADDLES TO PREVENT CRUSHING OF INSULATION.

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:

ALL VALVES SHALL BE LINE SIZED UNLESS OTHERWISE NOTED. (CBVs GENERALLY NOT LINE SIZE).

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.

BALL VALVES SHALL BE EQUAL TO KITZ 58 & 59. AUTOMATIC AIR VENTS SHALL BE EQUAL TO:

-WALLFINS, CONVECTORS, RADS: "MAID-O-MIST" #67 COMPLETE WITH BALL

6. WATER TREATMENT:

ALLOW FOR CHEMICAL TREATMENT TO BRING SYSTEM TO ACCEPTABLE LEVELS AND SUBMIT REPORTS.

.2 OBTAIN THE SERVICES OF MK SERVICES FOR ALL WATER TREATMENT.

DUCT INSULATION:

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.

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. 0.75 PCF (12 kg/m³) 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 RECOVERING JACKETS (INTERIOR): ULC LISTED "THERMO CANVAS",

TREATED COTTON FABRIC.

8. PIPE INSULATION: PROVIDE 1-1/2"(38mm) PIPE INSULATION ON ALL HEATING PIPING SIZES UP TO

AND INCLUDING 1-1/4"(32mm) PROVIDE 2"(50mm) PIPE INSULATION ON ALL HEATING PIPING SIZES

1-1/2"(38mm) AND OVER 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. PROVIDE PVC JACKET ON ALL INSULATION IN EXPOSED AREAS.

9. ACCESS DOORS/COVERS

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.

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.

HVAC NOTES:

CONCEAL ALL SERVICES IN CEILING SPACES AND FURRED CONSTRUCTION UNLESS INSTALLED IN UNFINISHED OR EXPOSED AREAS OR IF SPECIFICALLY NOTED TO BE EXPOSED.

COORDINATE INSTALLATION WITH ALL OTHER TRADES.

BALANCE DAMPERS PRIOR TO CONSTRUCTION.

REFER TO REFLECTED CEILING PLAN TO CONFIRM EXACT LOCATION OF GRILLES. LIGHTING TAKES PRECEDENCE.

PROVIDE ACOUSTIC INSULATION IN ALL TRANSFER DUCTS AND AS INDICATED ON DRAWINGS. SEAL ALL EXPOSED ENDS OF INSULATION.

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.

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.

PROVIDE BALANCE DAMPERS ON ALL BRANCH DUCTS CLOSE TO MAIN TAKE-OFF REVIEW WITH BALANCING CONTRACTOR TO CONFIRM LOCATIONS OF ALL

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.

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.

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.

PROVIDE SLEEVES FOR PIPES THROUGH ALL NEW BLOCK WALLS. FILL VOIDS AROUND PIPES. ENSURE NO CONTACT BETWEEN DISSIMILAR METALS.

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.

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.

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.

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.

PROVIDE TESTING AND STARTUP OF ALL NEW EQUIPMENT AND PROVIDE REPORTS TO THE ENGINEER FOR REVIEW.

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	

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	А	В	С	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 A	IR		

BALANCING SPECIFICATIONS:

OBTAIN THE SERVICES OF A 3rd PARTY ACCREDITED BALANCING COMPANY TO BALANCE THE COMPLETE AIR AND WATER HVAC SYSTEM.

PROVIDE PRELIMINARY REPORT TO ENGINEER FOR REVIEW AND COMMENTS.

ALLOW FOR ONE FOLLOW-UP SITE VISIT FOR ADJUSTMENTS.

RETURN TO SITE FOR ANY ADJUSTMENTS AND SUBMIT FINAL REPORT TO ENGINEER AND CONTRACTOR. FOR INCLUSION INTO MAINTENANCE MANUAL.

ACCEPTABLE AGENTS:

QUALITY AIR DISTRIBUTION INC CONTACT: MIKE NOONAN TEL: (289)892-7168 EMAIL: mike@qualityairdistribution.com

DESIGN TEST & BALANCE CONTACT: SURRINDER SINGH TEL: (905)886-6513 EMAIL: mail@designtest.ca

CONTACT: CHRIS PITHER PHONE: (416)410-9793 OR (647)321-5114 EMAIL: chrisp@flowset.com

AIR FLOW TESTING AND BALANCING CONTACT: PAUL LIVIE PHONE: 613-372-2244 OR 613-876-9314 EMAIL: airflowtesting@gmail.com

COMPLETE SYSTEMS BALANCING 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		
BDD	BACKDRAFT DAMPER		
BD	BALANCE DAMPER		
FD	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		
TYPE ID	EQUIPMENT TYPE OF EQUIPMENT SYMBOLS NUMBER DESIGNATION		
QTY TYPE SIZE AIR	GRILLE TYPE SYMBOLS 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:

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. ANY WORK INSIDE OR OUTSIDE, THAT CREATES RISK TO BUILDING

OCCUPANTS SHALL BE DONE OUTSIDE OF REGULAR SCHOOL HOURS. ANY WELDING SHALL BE DONE OUTSIDE REGULAR SCHOOL HOURS.

OBTAIN, ARRANGE AND PAY FOR ALL REQUIRED PERMITS AND INSPECTIONS.

THE CONTRACTOR AND ITS SUB-TRADES SHALL ATTEND BI-WEEKLY SITE MEETINGS OR AS ARRANGED BY CONSULTANT OR OWNER.

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.

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.

THOROUGHLY REVIEW AND COORDINATE WITH SITE CONDITIONS AND COMPLETE DRAWING SET PRIOR TO PRICING AND INSTALLATION.

INSTALL ALL WORK IN CONFORMANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.

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.

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.

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

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

- SHOP DRAWINGS - O&Ms - INSPECTION & TEST REPORTS

- WARRANTY LETTER

- AS-BUILT DRAWINGS. AS-BUILT DRAWINGS SHALL INCLUDE COMPLETE MECHANICAL DRAWING SET WITH ANY CHANGES MARKED CLEARLY AND NEATLY IN COLOUR. AS-BUILTS 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. This drawing has been prepared for the use of CIMA+'s client and may not be used, reproduced or relied upon by third parties, except as agreed by CIMA+ and its client, as required by law or for use by governmental reviewing agencies. CIMA+ accepts no responsibility, and denies any liability whatsoever, to any party that modifies this drawing without CIMA+'s express written consent. Do not scale this document. All measurements must be obtained from the stated dimensions.

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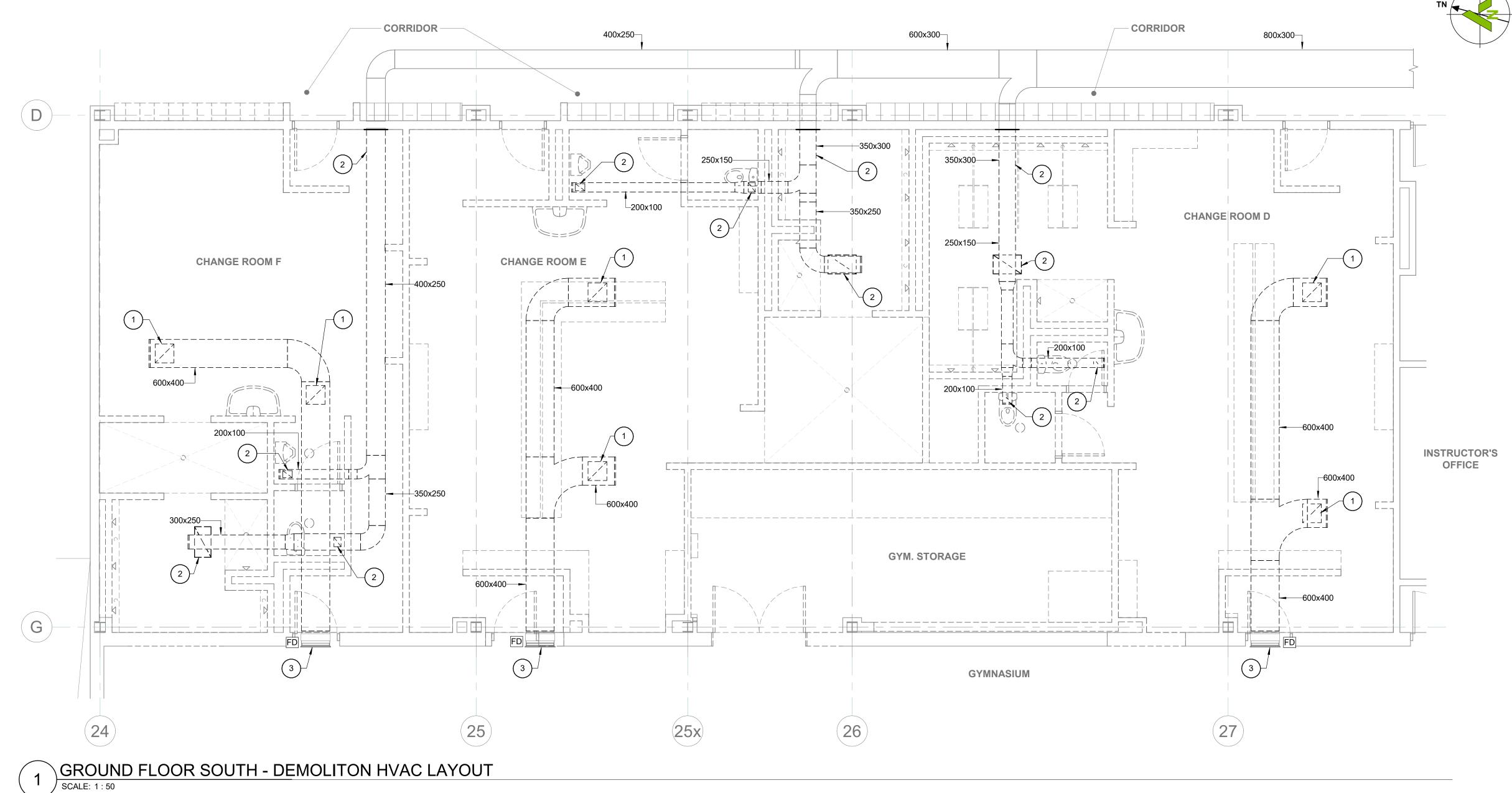
PINE RIDGE SS - CHANGE ROOM

LEGENDS, SCHEDULES & NOTES

RENOVATION

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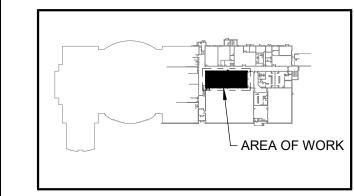


GENERAL DEMOLITION HVAC NOTES:

- THE CONTRACTOR SHALL ALLOW FOR DETAILED SITE INVESTIGATION TO CONFIRM ALL SERVICES PRIOR TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- DISCONNECT AND REMOVE <u>ALL</u> REDUNDANT EQUIPMENT, DUCTWORK, PIPING AND OTHER REDUNDANT SERVICES THROUGHOUT AREA OF WORK.
- 3. REMOVE OBSOLETE ABOVEGROUND SERVICES BACK TO SOURCE/MAINS AND CAP.
- ANY REDUNDANT RISERS CAN REMAIN WITHIN EXISTING WALLS (WHERE WALLS ARE SCHEDULED TO REMAIN) BUT SERVICES SHALL BE CUT AND CAPPED WITHIN WALL SO FACE OF WALL CAN BE PATCHED AND FINISHED SMOOTH.
- 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.

DEMOLITION WORKING NOTES:

- 1 REMOVE EXISTING TRANSFER AIR GRILLES. REMOVE ALL TRANSFER AIR DUCT BACK TO GYMNASIUM WALL.
- 2 REMOVE EXISTING EXHAUST AIR GRILLES. REMOVE ALL EXHAUST AIR DUCT WORK TO CORRIDOR WALL.
- 3 EXISTING TRANSFER AIR GRILLE AND FIRE DAMPER TO REMAIN.



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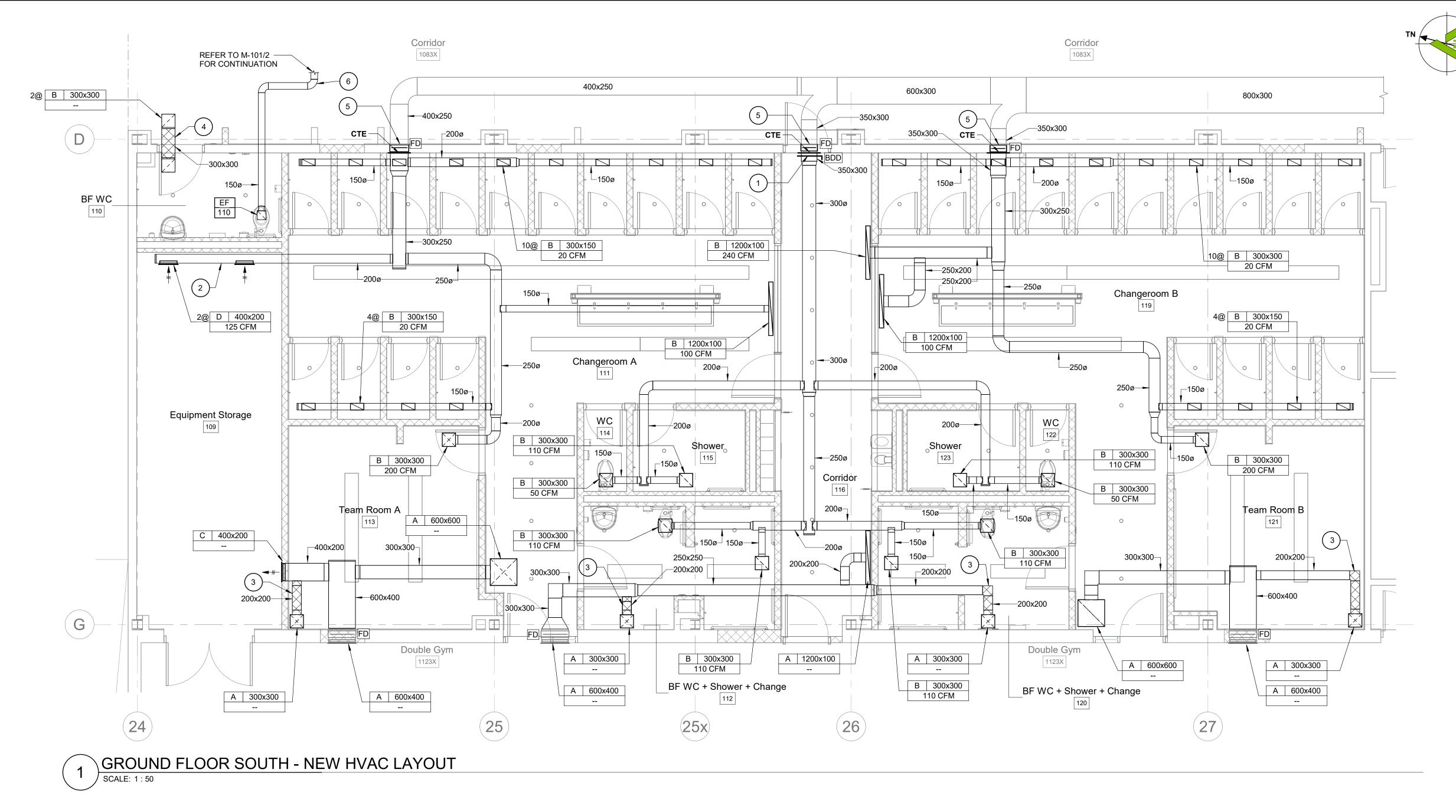
PINE RIDGE SS - CHANGE ROOM RENOVATION

SHEET TITLE:

GROUND FLOOR SOUTH CHANGE ROOMS - DEMOLTION HVAC

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HEET No: 5 of 10	ו טו טועו

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GENERAL NEW HVAC NOTES:

THE CONTRACTOR SHALL INVESTIGATE AND CONFIRM SERVICES ON SITE PRIOR

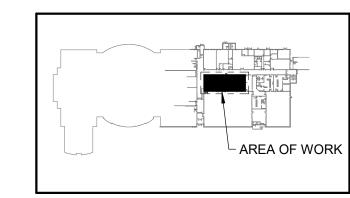
TO CONSTRUCTION AND REPORT ANY DISCREPANCIES TO CONSULTANT.

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.

- COORDINATE ALL SERVICES WITH ALL TRADES PRIOR TO INSTALLATION.
- SUPPLY ACCESS DOORS FOR MECHANICAL DEVICES ABOVE DRYWALL CEILING AND TURN OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- LABEL CEILING GRID AT ACCESS TO MECHANICAL EQUIPMENT AND DEVICES WITH LAMACOID NAMEPLATE.
- 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 THRUGH EXTERIOR WALL THROUGH NEW BRICK VENT. THERMALLY INSULATE LAST 2.5m BACK FROM EXTERIOR WALL.



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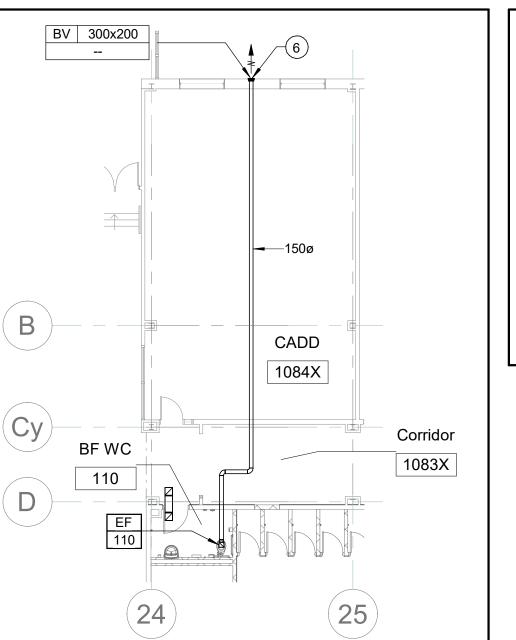
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PINE RIDGE SS - CHANGE ROOM RENOVATION

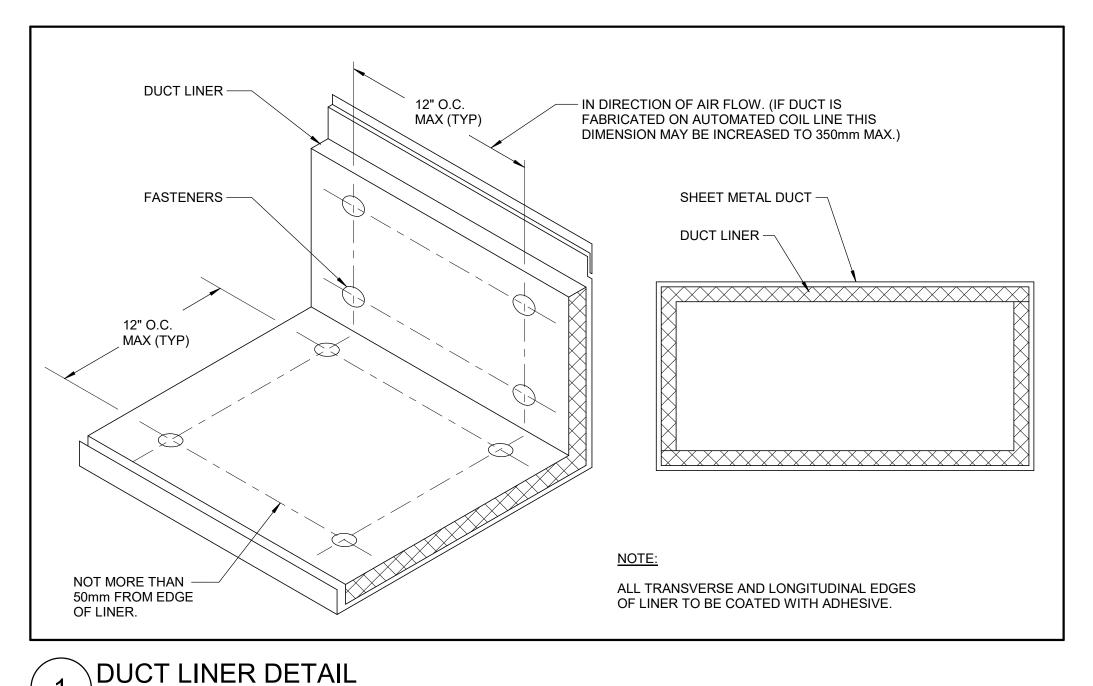
SHEET TITLE:

GROUND FLOOR SOUTH CHANGE ROOMS - NEW HVAC

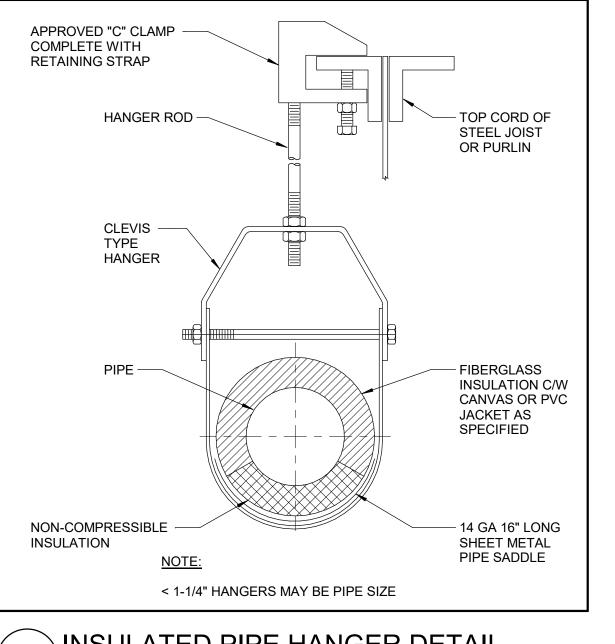
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APPROVER: BRT	CHECKER: BRT	
PROJECT No: Z0023519	DRAWING No: M-101	
SHEET No: 6 of 10	101-101	



2 GROUND FLOOR SOUTH - EXHAUST DUCT ROUTING M-101 SCALE: 1: 150

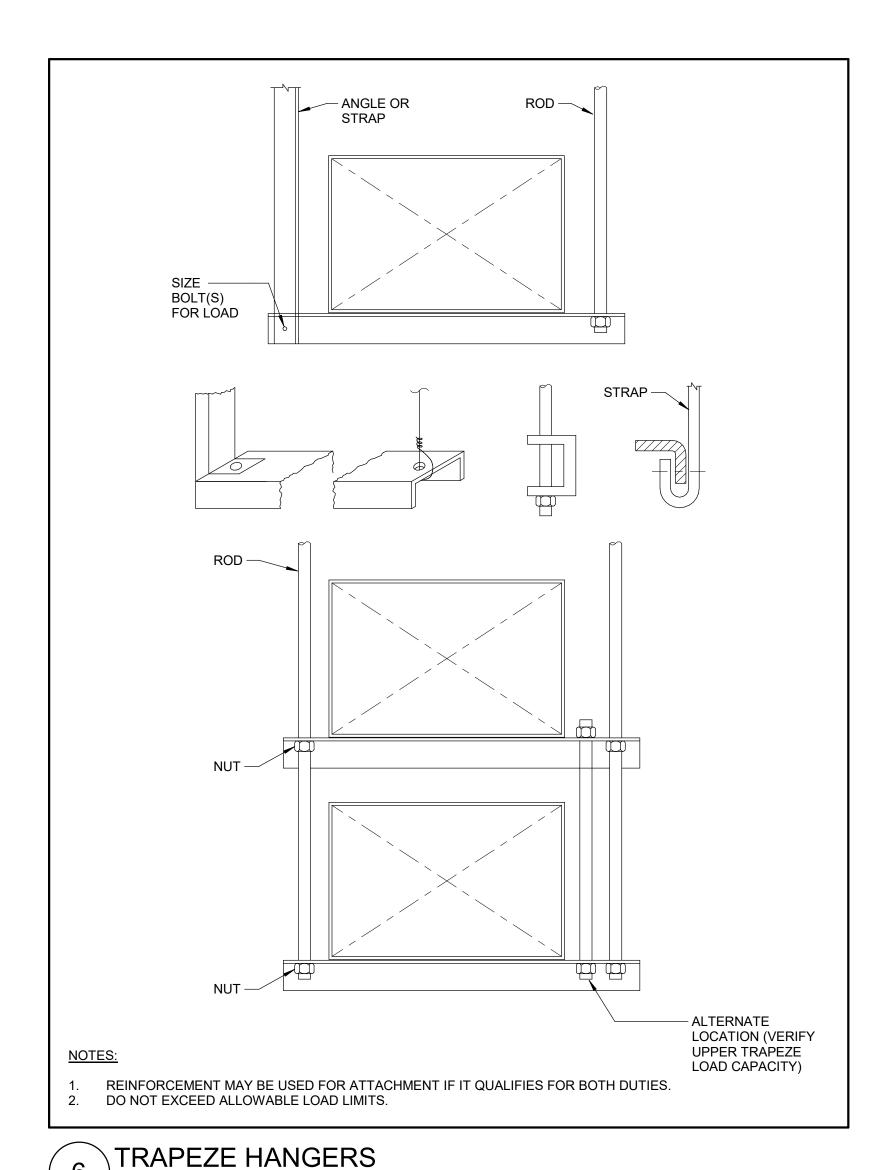


— PLATED STEAL CAMLOCK FASTENERS - DUCT MIN 16" OR DUCT WIDTH ACCESS FIRE DAMPER OR LESS 2" DOOR REHEAT COIL 4 CAMLOCKS ON - POSITIVE SEAL ACCESS DOOR EQUAL TO: SQUARE/RECTANGLE: NAILOR 085CL SIZES OVER 14" — POLYETHYLENE GASKET FLAT OVAL: NAILOR 0800 SQUARE/RECTANGLE: 16x16" FLAT OVAL: 18x10"



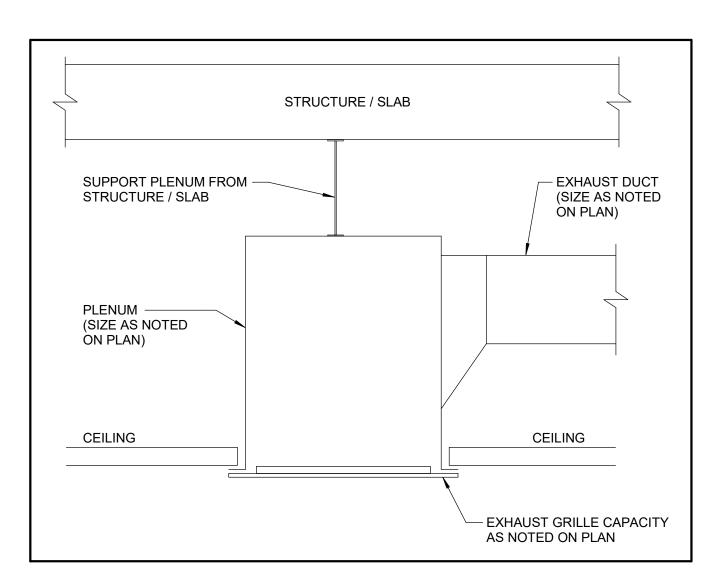
INSULATED PIPE HANGER DETAIL SCALE: NTS

24"



SCALE: NTS

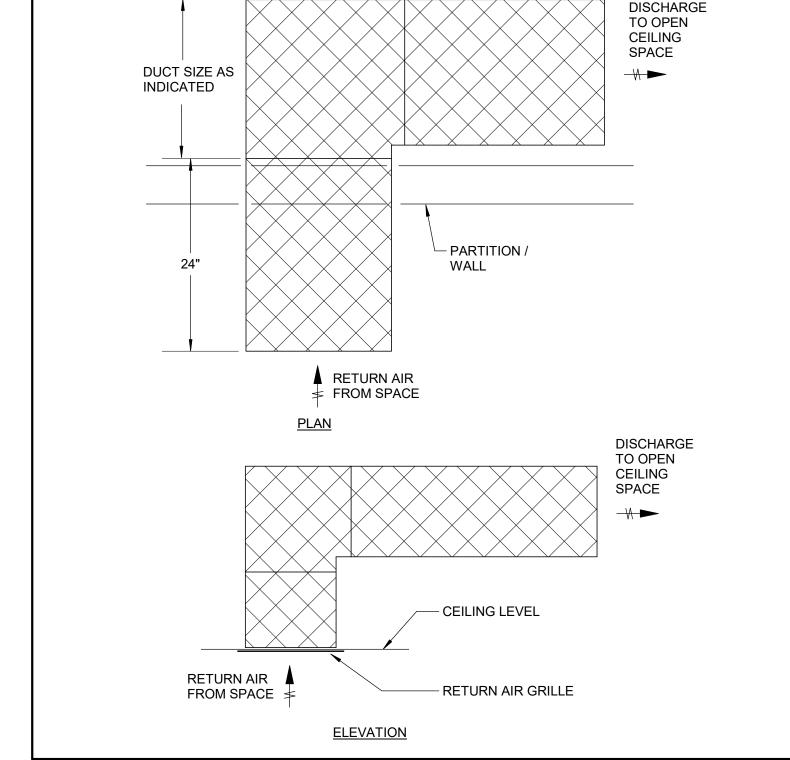
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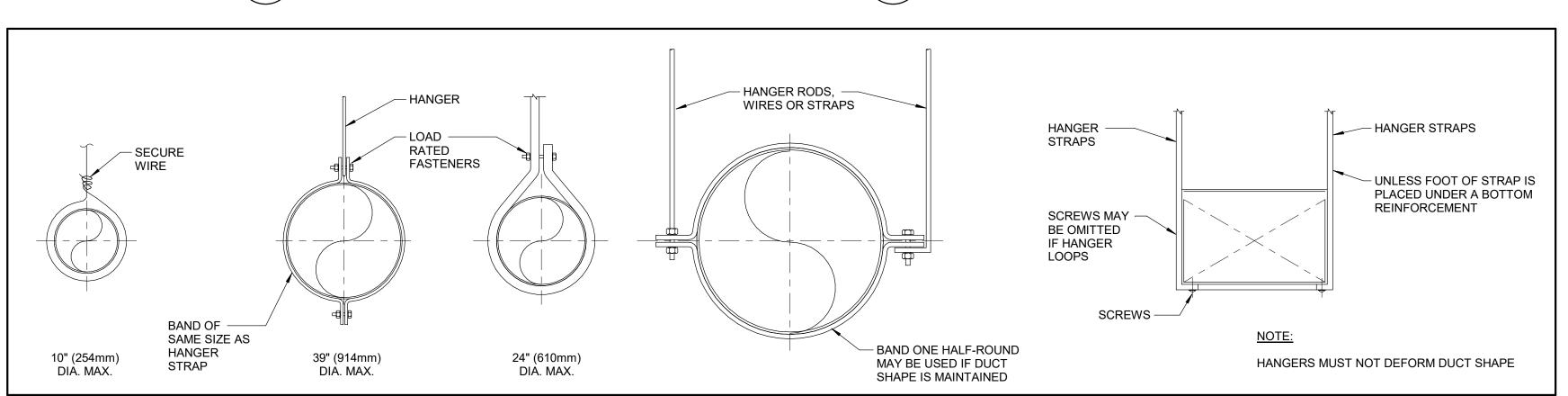
DUCT ACCESS DOOR DETAIL

SCALE: NTS





TRANSFER DUCT WITH SOUND ATTENUATION DETAIL SCALE: NTS



SCALE: NTS

STRAP HANGERS

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PINE RIDGE SS - CHANGE ROOM RENOVATION

MECHANICAL

DETAILS

MECHANICAL	
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BRT	BRT
PROJECT No:	DRAWING No:
Z0023519	M 501
SHEET No:	M-501
7 of 10	

SPRINKLER NOTES:

- 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.
- 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.
- UPGRADE EXISTING WET SPRINKLER SYSTEM FOR REVISED CHANGE ROOM LAYOUT.
- 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.
- 3. 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.
- 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.

HAZARDS	
LIGHT HAZARD (0.1 gpm over 1500 sq.ft.)	ALL AREAS EXCEPT BELOW

SPRINKLER MATERIAL SPECIFICATIONS:

- 1. SPRINKLER PIPING SHALL BE WELDED AND SEAMLESS BLACK STEEL ULC LISTED FOR FIRE PROTECTION USE IN CONFORMANCE WITH ASTM A-795 OR ANSI/ASTM A-53. PIPING IN DAMP OR WET ENVIRONMENTS INCLUDING ATTICS AND EXTERIORS SHALL BE HOT-DIPPED GALVANIZED.
- 2. PIPING (2" AND UNDER): STEEL SCHEDULE 40 WITH ULC LISTED THREADED MALLEABLE STEEL FITTINGS TO ASTM A-197 AND ASTM A-153 CLASS A, OR STEEL SCHEDULE 10 WITH ULC LISTED STEEL GROOVED FITTINGS TO ASTM A-47 AND ASTM A536 EQUAL TO "FIRELOCK". PIPING (2-1/2" AND OVER): STEEL SCHEDULE 10 WITH ULC LISTED STEEL GROOVED FITTINGS TO ASTM A-47 AND ASTM A-536 EQUAL TO "FIRELOCK".
- 3. HANGERS, SUPPORTS AND SPACING SHALL BE IN CONFORMANCE WITH NFPA 13. HANGERS SHALL BE STEEL ULC LISTED. USE ADJUSTABLE GALVANIZED CLEVIS PIPE SUPPORTS AND HANGERS WITH THREADED HANGER RODS. HANGERS SHALL SUPPORT FROM UPPER MEMBERS OF STEEL JOISTS OR PROVIDE LISTED AND APPROVED FASTENERS FOR CONCRETE STRUCTURE (EXCEPT NOT ACCEPTABLE IN CINDER). DO NOT SUPPORT FROM METAL DECK.
- TOP OF RISERS SHALL BE SUPPORTED USING RISER CLAMPS OFF WALLS. A HANGER SHALL ALSO BE INSTALLED ON HORIZONTAL LINE WITHIN 24"(610mm) OF CENTERLINE OF RISER
- ALL OTHER MATERIALS SHALL BE ULC LISTED, IN CONFORMANCE WITH NFPA 13, AND SPECIFIC ASTM/ANSI RATINGS.

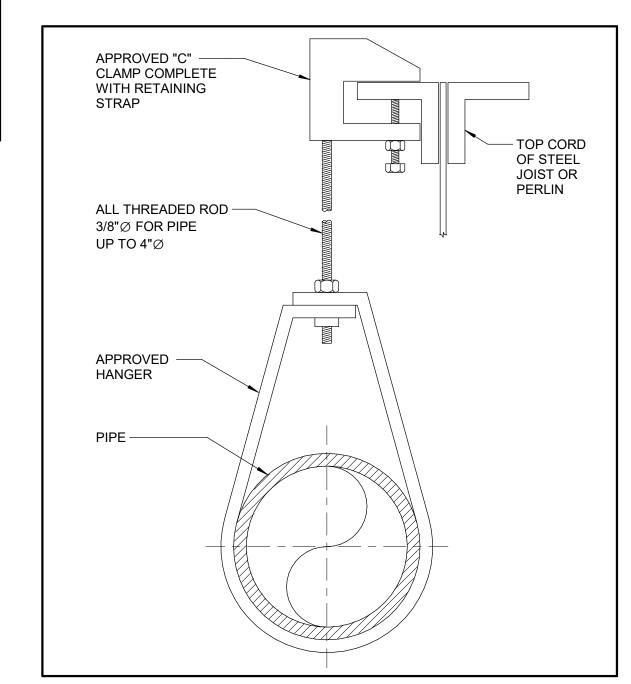
SPRINKLER HEADS:

- PROVIDE WHITE CONCEALED PENDENT SPRINKLER HEADS C/W ESCUTCHEONS IN DROPPED CEILINGS.
- 2. PROVIDE WHITE SIDEWALL SPRINKLER HEADS C/W ESCUTCHEONS IN BULKHEADS IN AREAS WITH NO DROPPED CEILING.
- PROVIDE MEDIUM TEMPERATURE BRASS UPRIGHT SPRINKLER HEADS IN MECHANICAL ROOMS AND OTHER SUCH SERVICE ROOMS.

SPRINKLER LEGEND	
	DEMO
	EXISTING
	NEW
F	SPRINKLER LINE
<u> </u>	ELBOW RISING
 5	ELBOW DROPPING
	BRANCH RISING FROM TEE
	BRANCH DROPPING FROM TEE
×	BRASS UPRIGHT SPRINKLER HEAD K=5.60, 1/2" ORIFICE, 1/2" NPT, 155°F
•	WHITE CONCEALED PENDENT SPRINKLER HEAD C/W ESCUTCHEON PLATE K=5.60, 1/2" ORIFICE, 1/2" NPT, 155°F
NOTE:	

NOTE:

- 'EX' DENOTES EXISTING TO REMAIN
 'D' DENOTES EXISTING TO BE REMOVED
- 3. 'N' DENOTES NEW



TYPICAL SPRINKLER HANGER DETAIL

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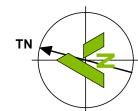
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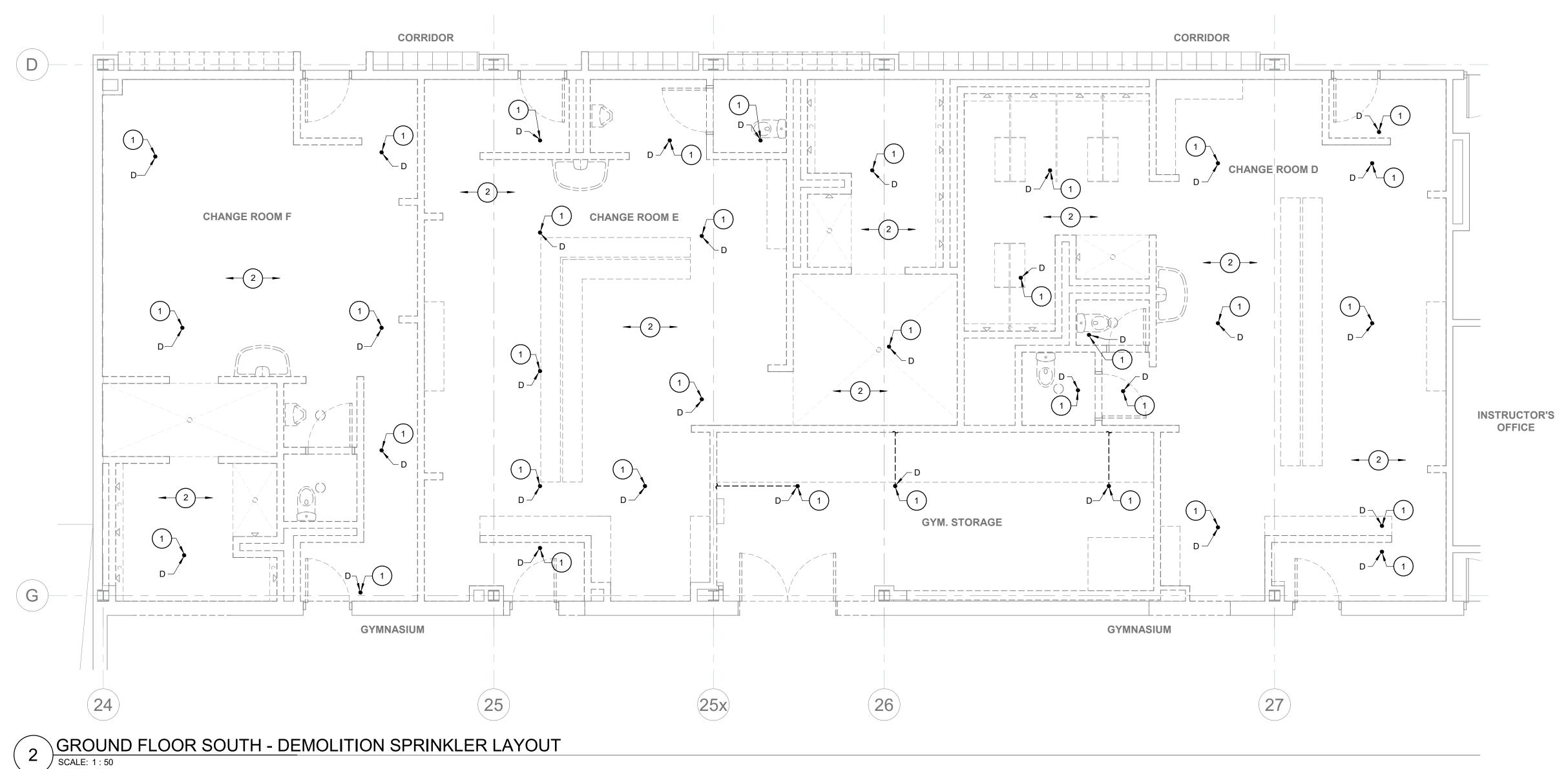
PINE RIDGE SS - CHANGE ROOM RENOVATION

SHEET TITLE:

LEGENDS, DETAILS & NOTES

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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.

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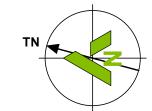
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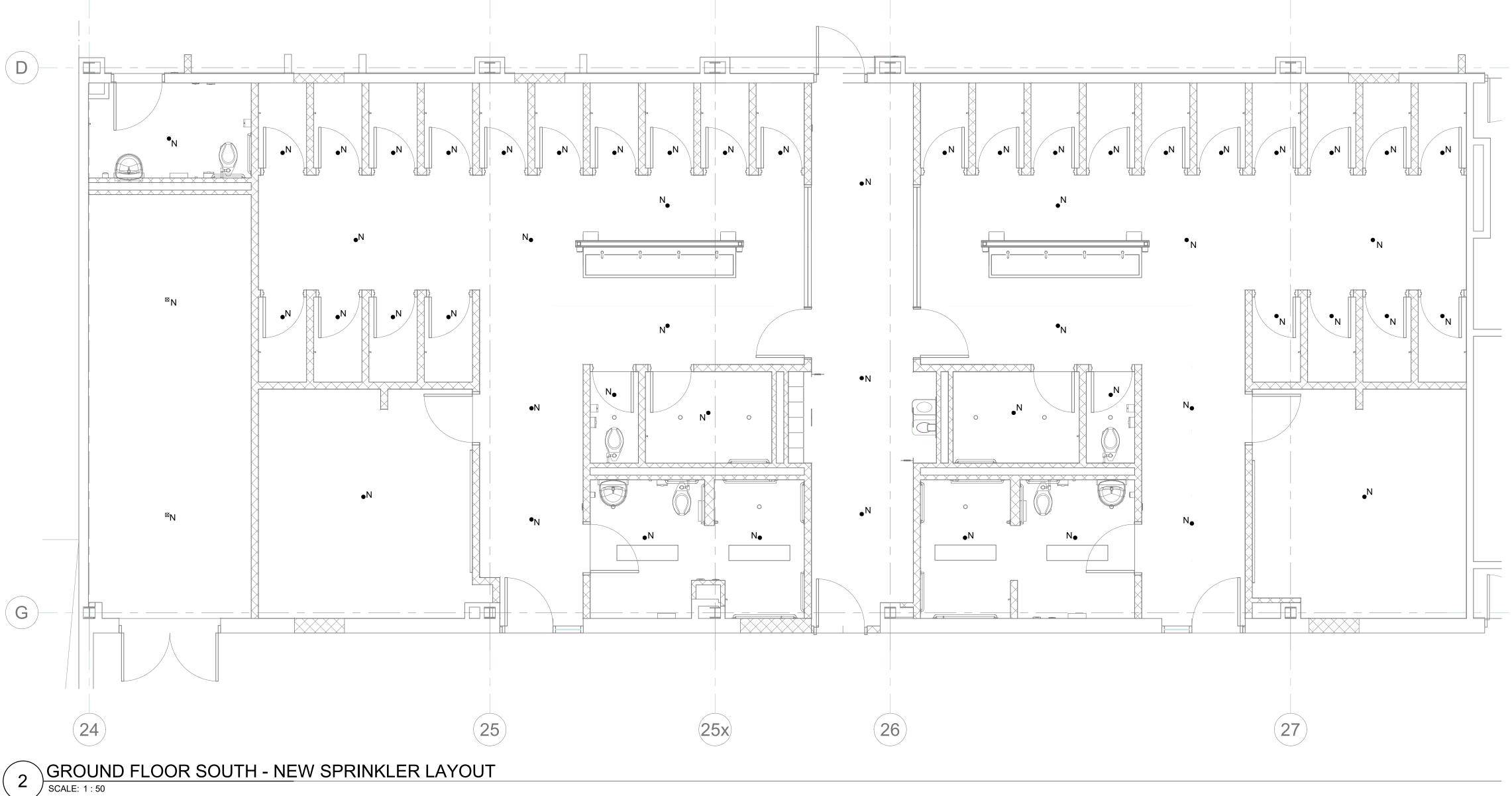
Pine Ridge SS 2155 Liverpool Road Pickering, Ontario L1X 2H8

PINE RIDGE SS - CHANGE ROOM RENOVATION

GROUND FLOOR PLAN SOUTH CHANGE ROOMS - DEMOLITION SPRINKLERS

FIRE PROTECTION		
DRAFTER:	SCALE:	
SR	AS NOTED	
DESIGNER:	DATE:	
BRT	2025-07-15	
APPROVER:	CHECKER:	
Approver	BRT	
PROJECT No:	DRAWING No:	
Z0023519	FD101	
SHEET No:	וטוטו	
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KEY PLAN N.T.S.

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



CONSULTANT(S):



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

PINE RIDGE SS - CHANGE ROOM RENOVATION

GROUND FLOOR PLAN SOUTH CHANGE ROOMS - NEW SPRINKLERS

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