

# TIMNATH ELEMENTARY SCHOOL

## EARLY CHILDHOOD RESTROOM PROJECTS



POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
TIMNATH, CO 80528



No.	Revision	Date

Sheet Title:  
COVER

Project  
EC REST ROOMS  
DD SET  
Date  
02/20/2020  
Scale  
G000  
Sheet  
G000

**ARCHITECT**

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**ELECTRICAL CONSULTANT**

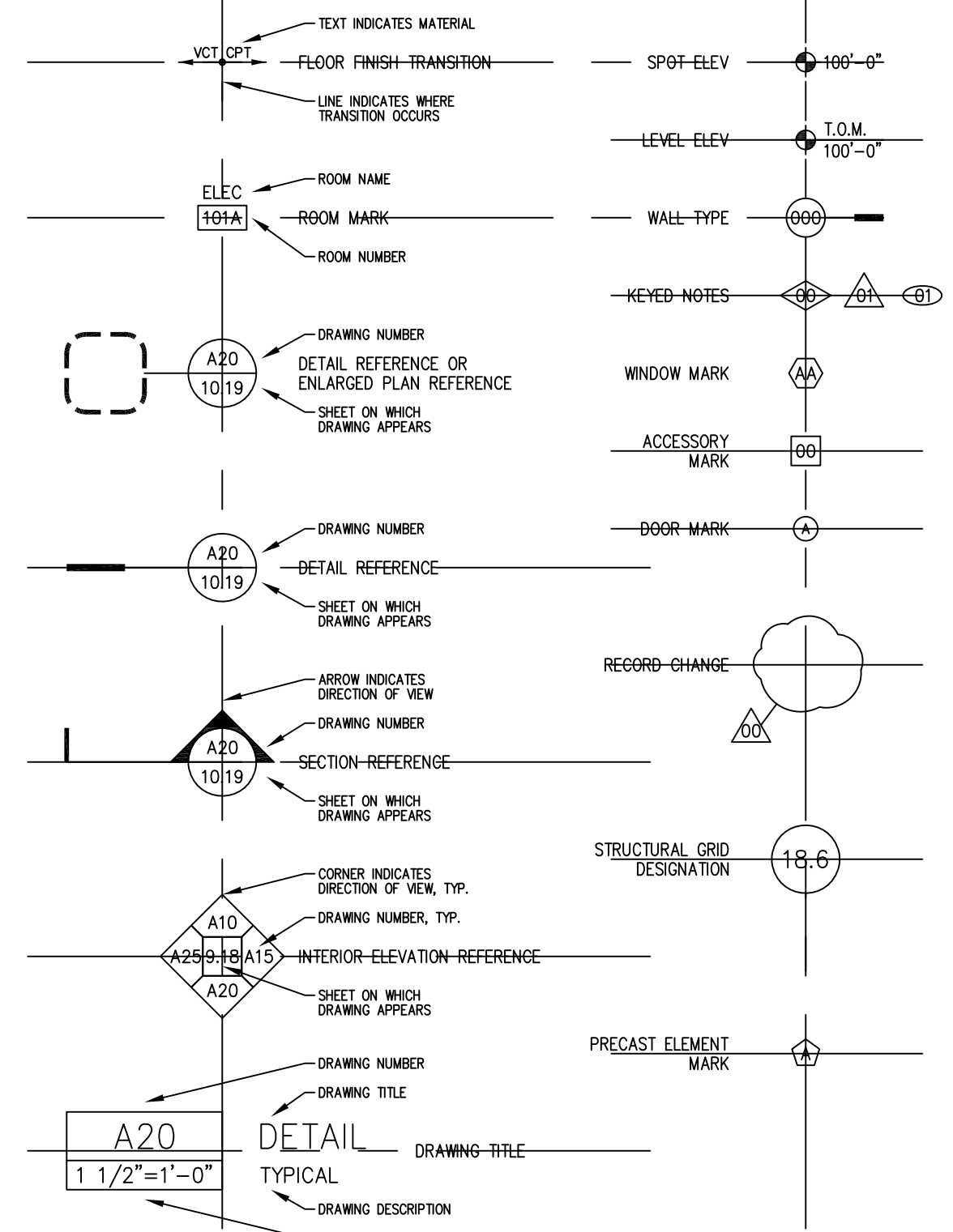
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**FIRE ALARM CONSULTANT**

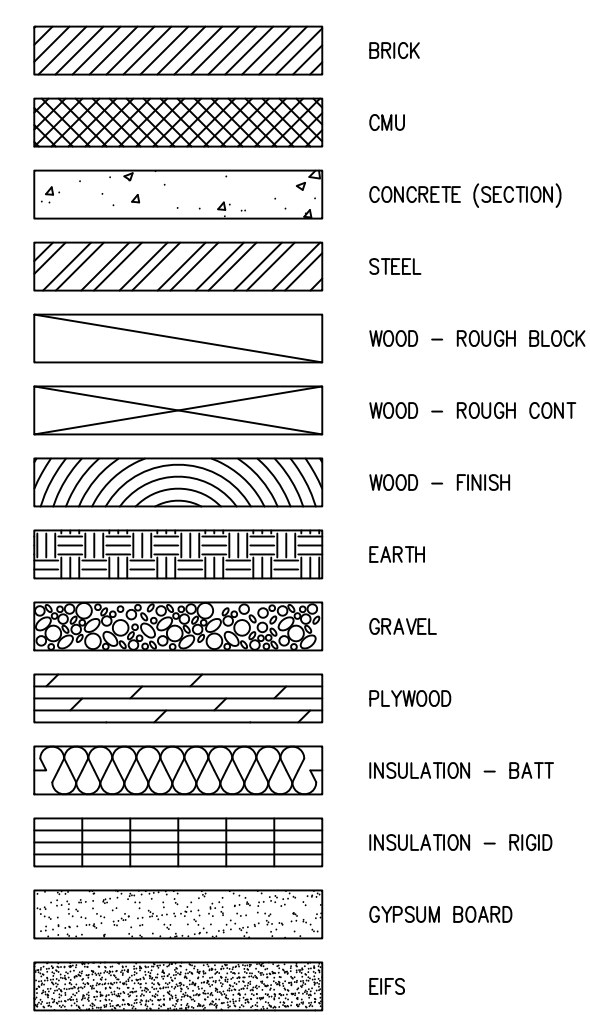
**ABBREVIATIONS**

A/C	AIR CONDITIONING	M	MINUTE
AB	ANCHOR BOLT	MAS	MASONRY
ACCESS	ACCESSIBLE	MAT	MATERIAL
ACT	ACoustical TILE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	MARKER BOARD
ATF	ABOVE FINISHED FLOOR	MBM	METAL BUILDING MANUFACTURER
AL	ALUMINUM	MCH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
AND	AND/ED	MN	MINIMUM/MINUTE
APPROX	APPROXIMATE	MIR	MIRROR
ARCH	ARCHITECTURAL	MR/S	MIRROR W/ SHELF
ASB	ACOUSTIC SOUND BOARD	MSC	MISCELLANEOUS
AMP	ACOUSTICAL WALL PANELS	MEL	MELAMINE
		MO	MASONRY OPENING
		MT	MOUNTED
		MTL	METAL
		MULL	MULLION
BB	BULLETIN BOARD	(N)	NEW
BC	BASE CABINET	NA	NOT APPLICABLE
BD	BOARD	NI	NOT IN CONTRACT
BTWN	BETWEEN	NOM	NOMINAL
BL	BRICK LEDGE	NPS	NOMINAL PIPE SIZE
BLDG	BUILDING	NIS	NOT TO SCALE
BLNG	BLOCKING	OA	OVER/ON
BM	BENCH MARK/BEAM	OC	ON CENTER
BOM	BOTTOM OF MASONRY	OD	OUTSIDE DIAMETER
BOS	BOTTOM OF STEEL	OF	OVERFLOW LEADER
BOT	BOTTOM	OFI	OWNER FURNISHED
BRC	BEARING	OFI	CONTRACTOR INSTALLED
BRKT	BRACKET	OFI	OWNER INSTALLED
BS	BACKSPLASH	OFD	OVERFLOW DRAIN
BSMT	BASEMENT	OFD	OVERFLOW SCUPPER
BUR	BUILT-UP ROOF	OH	OVERHEAD/OPOSITE HAND
		OPG	OPENING
		OPP	OPPOSITE
C	COURSE(S)	OT	QUARRY TILE
(C)	COURSES		
CAB	CABINET		
CB	CHALKBOARD		
CD	CEMENT BOARD		
CF	CUBIC FEET		
CG	CORNER GUARD		
CI	CAST IRON		
CIP	CAST-IN-PLACE		
CJ	CONTROL JOINT		
CLG	CENTERLINE		
CLR	CLEAR/CLEARANCE		
CM	CONCRETE		
CMU	CONCRETE MASONRY UNIT(S)		
COL	COLUMN		
CONC	CONCRETE		
CONST	CONSTRUCTION		
CONT	CONTINUOUS/CONTRACTOR		
CPT	CAPIRE		
CT	CERAMIC TILE		
CTR	COUNTER/COUNTERTOP		
CY	CUBIC YARD		
D	DEEP/DEPTH		
(D)	DEMOLISHED		
DB	DISPLAY BOARD		
DBL	DOUBLE		
DF	DRAINING FOUNTAIN		
DIAG	DIAGONAL		
DA	DIAMETER		
DM	DIMENSION		
DN	DOWN		
DS	DOWNSPOUT		
DTL	DETAIL		
DWG	DRAWING		
(E)	EXISTING		
EA	EACH		
EFS	EXTERIOR INSULATION FINISH SYSTEM		
EJ	EXPANSION JOINT		
EL	ELEVATION		
ELEC	ELECTRICAL		
ELEV	ELEVATOR/ELEVATION		
EMER	EMERGENCY		
EPDM	ROOFING SYSTEM RE SPEC.		
EPT	EPOXY PAINT		
EQ	EQUAL		
EQUIP	EQUIPMENT		
EW	EACH WAY		
EWC	ELECTRIC WATER COOLER		
EXH	EXHAUST		
EXP	EXPANSION/EXPOSED		
EXT	EXTERIOR		
FA	FIRE ALARM		
FAP	FIRE ALARM PANEL		
FD	FLOOR DRAIN		
FE	FIRE EXTINGUISHER		
FEC	FIRE EXTINGUISHER CABINET		
FN	FINISH(ED)		
FL	FLOOR LINE		
FLR	FLOOR/FLOORING		
FND	FOUNDATION		
FOC	FACE OF CONCRETE		
FOF	FACE OF FINISH		
FOM	FACE OF MASONRY		
FOS	FACE OF STUD(S)		
FR	FIRE-RESISTANT		
FRP	FIBERGLASS REINFORCED PLASTIC/FLOOR SINK/FINISHED SURFACE		
FS	FLOOR SINK/FINISHED SURFACE		
FTG	FOOT/FEET		
FUR	FURRING		
G	GAS		
GA	GAUGE		
GALV	GALVANIZED		
GB	GYP SIM BOARD/GRAB BAR		
GBU	GLASS BLOCK UNIT		
GC	GENERAL CONTRACTOR		
GCLZ	GLAZED CMU		
GFCMU	GROUND FACE CMU		
GI	GALVANIZED IRON		
GR	GUARDRAIL		
GYP	GYP SIM		
H	HEIGHT/HIGH		
HT	HEIGHT		
HB	HOSE BIBB		
HC	HOLLOW CORE		
HDWD	HARDWOOD		
HD	HEAVY DUTY		
HDW	HARDWARE		
HDOP	HANDICAPPED		
HM	HOLLOW METAL		
HDRZ	HORIZONTAL		
HR	HANDRAIL		
HVAC	HEATING VENTILATING AIR CONDITIONING		
ID	INSIDE DIAMETER		
INCL	INCLUDING		
INSUL	INSULATION		
INT	INTERIOR		
INV	INVERT		
JB	JOIST BEARING		
JST	JOIST		
JT	JOINT		
L	LENGTH		
LAM	LAMINATE(ED)		
LAV	LAVATORY		
LH	LEFT HAND		
LKR	LOCKER(S)		
LMB	LIQUID MARKER BOARD		
LND	LINOLEUM		
LTC	LIGHTING		
LVR	LOUVER		
M	MINUTE		
MAS	MASONRY		
MAT	MATERIAL		
MAX	MAXIMUM		
MB	MARKER BOARD		
MBM	METAL BUILDING MANUFACTURER		
MCH	MECHANICAL		
MFR	MANUFACTURER		
MN	MINIMUM/MINUTE		
MIR	MIRROR		
MR/S	MIRROR W/ SHELF		
MSC	MISCELLANEOUS		
MEL	MELAMINE		
MO	MASONRY OPENING		
MT	MOUNTED		
MTL	METAL		
MULL	MULLION		
(N)	NEW		
NA	NOT APPLICABLE		
NI	NOT IN CONTRACT		
NOM	NOMINAL		
NPS	NOMINAL PIPE SIZE		
NIS	NOT TO SCALE		
OA	OVER/ON		
OC	ON CENTER		
OD	OUTSIDE DIAMETER		
OF	OVERFLOW LEADER		
OFI	OWNER FURNISHED		
OFI	CONTRACTOR INSTALLED		
OFI	OWNER INSTALLED		
OFD	OVERFLOW DRAIN		
OFD	OVERFLOW SCUPPER		
OH	OVERHEAD/OPOSITE HAND		
OPG	OPENING		
OPP	OPPOSITE		
PBD	PARTICLE BOARD		
PC	PRECAST CONCRETE		
PCF	POUNDS PER CUBIC FOOT		
PE	POURED EPOXY		
PL	PLATE		
PLM	PLASTIC LAMINATE		
PLAS	PLASTER		
PLF	POUNDS PER LINEAR FOOT		
PR	PAIR		
PS	PROJECTION SCREEN		
PSF	POUNDS PER SQUARE FOOT		
PSI	POUNDS PER SQUARE INCH		
PT	PAIN		
PTD	PAPER TOWEL DISPENSER		
PVC	POLYVINYL CHLORIDE		
PVMT	PAVEMENT		
PWD	PLYWOOD		
QT	QUARRY TILE		
(R)	RELOCATE(ED)		
R	RISER/RADIUS/RATED		
RB	RUBBER BASE		
RCMU	RIBBED CMU		
RCP	REFLECTED CEILING PLAN		
RD	ROOF DRAIN		
RDL	ROOF DRAIN LEADER		
REFR	REFLECT		
REV	REVERSED		
REIN	REINFORCING		
REQD	REQUIRED		
RFS	ROOM FINISH SCHEDULE		
RH	RIGHT HAND		
RM	ROOM		
RO	ROUGH OPENING		
ROW	RIGHT OF WAY		
RSCMU	RIBBED & SPLIT CMU		
RT	RUBBER TILE OR TREAD		
(S)	SALVAGE(D)		
SACMU	SOUND ABSORBING CMU		
SAT	SUSPENDED ACOUSTICAL TILE		
SC	SOLID CORE		
SCAT	SPRAYED CELLULOSE ACOUSTIC TREATMENT		
SD	STORE DRAIN		
SDT	STATIC DISSIPATIVE TILE		
SECT	SECTION		
SFF	SQUARE FOOT		
SFCMU	SPLIT FACE CMU		
SGT	STRUCTURAL GLAZED TILE		
SHT	SHEET		
SHTG	SHEATHING		
SM	SIMILAR		
SHV	SHRELS/SHELVES/SHELVING		
SM	SHEET METAL		
SPECS	SPECIFICATIONS		
SQ	SQUARE		
SS	SANITARY SEWER/STAINLESS STEEL		
ST	STANDARD		
STD	STANDARD		
STRUC	STRUCTURAL		
SUSP	SUSPENDED		
SV	SHEET VINYL		
SYM	SYMMETRICAL		
TD	TRAVEL DISTANCE		
TB	TACKBOARD		
T&G	TOP AND BOTTOM TONGUE AND GROOVE		
TEL	TELEPHONE		
THK	THICK/THICKNESS		
TOB	TOP OF BEAM		
TOC	TOP OF CONCRETE/CURB		
TOM	TOP OF MASONRY		
TOS	TOP OF STEEL		
TWP	TOP OF WALL		
TP	TOP PLATE		
TPD	TOILET PAPER DISPENSER		
TS	TUBE STEEL		
TRIP	TRIP		
TV	TELEVISION		
UC	UPPER CABINET		
UGE	UNDERGROUND ELECTRICAL		
UNO	UNLESS NOTED OTHERWISE		
VB	VENTED BASE		
VCT	VINYL COMPOSITION TILE		
VERT	VERTICAL		
VEST	VESTIBULE		
VF	VINYL FACED		
VFB	VINYL FACED GYP SIM BOARD		
VF	VERIFY IN FIELD		
VWC	VINYL WALL COVERING		
W	WIDTH/WIDE		
W/	WITH		
W/O	WITHOUT		
WO	WHERE OCCURS		
WB	WOOD BASE		
WH	WATER HEATER/WALL HUNG		
WC	WATER CLOSET		
WN	WINDOW		
WO	WOOD		
WP	WATERPROOF		
WR	WATER RESISTANT		
WT	WEIGHT		
WVF	WELDED WIRE FABRIC		

**ARCHITECTURAL SYMBOLS**



**MATERIALS LEGEND**



**GENERAL NOTES**

DEMOLITION WORK INCLUDES NOTES ON ALL SHEETS IN THE FOLLOWING DRAWING SET. THESE SHEETS ARE NOT INTENDED TO BE ALL INCLUSIVE OF THE COMPLETE SCOPE OF REQUIRED DEMOLITION. REMOVE EXISTING CONSTRUCTION REQUIRED FOR ALL WORK INCLUDING NEW MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND ASSOCIATED PATCHING / FINISHING REQUIRED TO COMPLETE ALL PHASES OF WORK.

DO NOT SCALE DRAWINGS. FIELD VERIFY ALL DIMENSIONS. NOTIFY ARCHITECT IMMEDIATELY WHEN DISCREPANCIES ARE DISCOVERED.

IT IS THE RESPONSIBILITY OF THE MECHANICAL AND THE ELECTRICAL SUBCONTRACTOR TO REVIEW ALL THE DRAWINGS, INCLUDING ARCHITECTURAL, FOR WORK UNDER THEIR RESPECTIVE CONTRACTS. ROOF PLANS AND REFLECTED CEILING PLANS DESCRIBE MECHANICAL AND ELECTRICAL WORK AS DO OTHER ARCHITECTURAL DRAWINGS. NO EXTRAS WILL BE ALLOWED FOR WORK SHOWN IN ANY PART OF THESE DRAWINGS.

INTERIOR DIMENSIONS ARE FROM FACE OF STUD, FACE OF MASONRY, OR FACE OF CONCRETE (UNLESS NOTED OTHERWISE). WHERE DIMENSION IS NOTED "CLEAR", DIMENSION IS TO FINAL FINISH.

**DRAWING INDEX**

COVER  
 G000 COVER SHEET/CODE PLAN  
 G100 SYMBOLS

GENERAL

CIVIL NOT USED

STRUCTURAL  
 S1 NOT USED

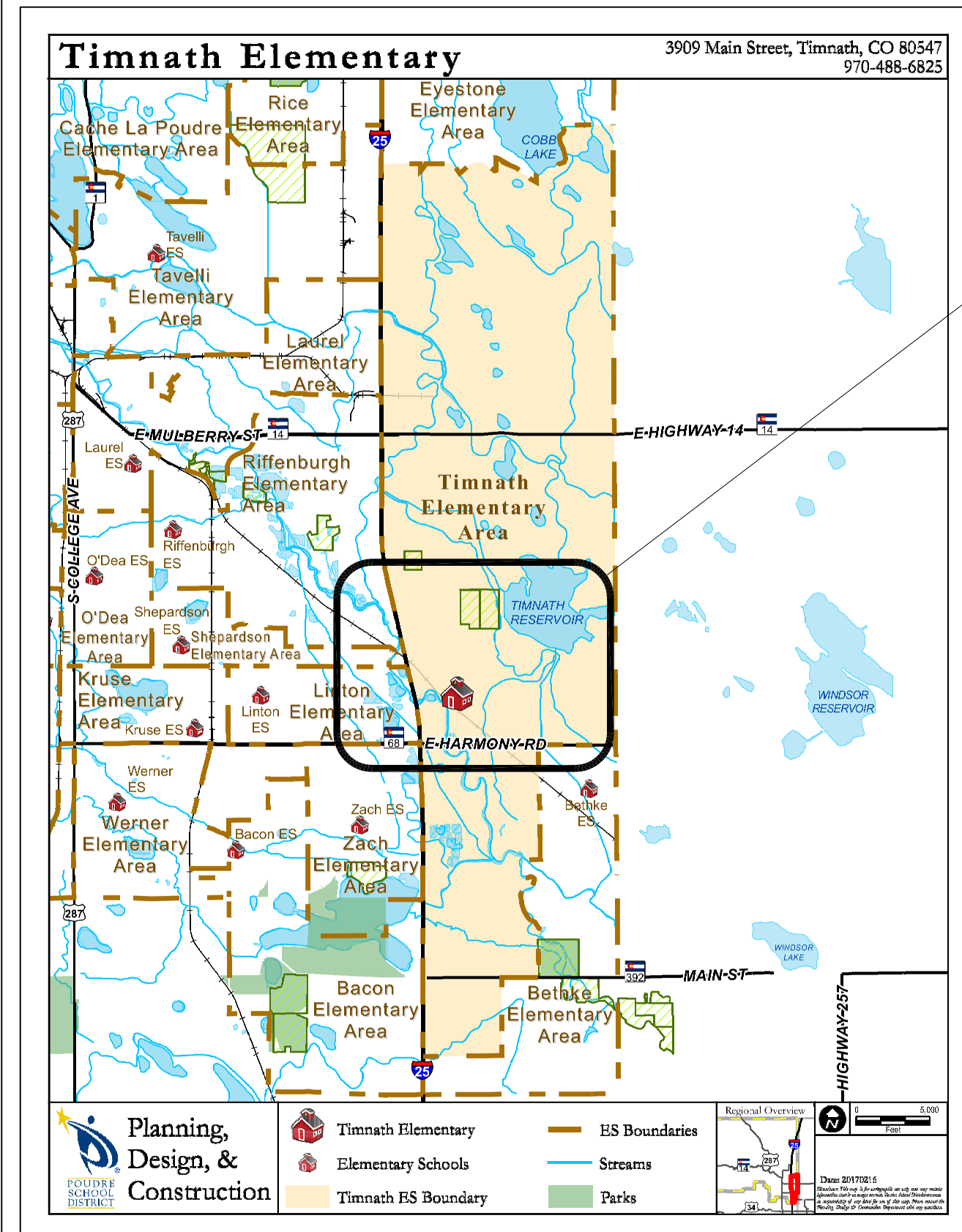
ARCHITECTURAL  
 A0101 DEMO  
 A101 PARTIAL FLOOR PLAN  
 A301 SCHEDULES AND DETAILS  
 A202.1 NOT USED

ELECTRICAL  
 ED101 LEGENDS/NOTES  
 ED101 DEMO PLAN  
 E101 ELECTRICAL PLAN

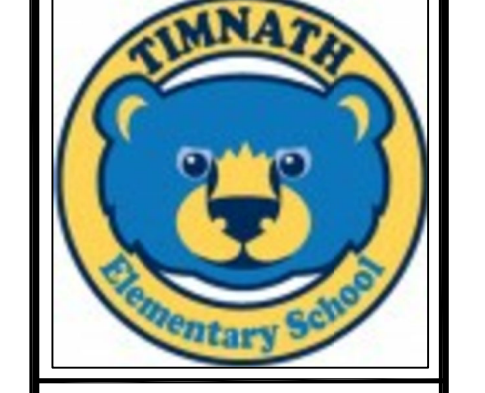
FIRE  
 NOT USED

MECHANICAL  
 M001 NOTES AND LEGENDS  
 M101 MECHANICAL FLOOR PLAN  
 P001 NOTES AND LEGENDS  
 P101 PLUMBING FLOOR PLAN  
 P301 PLUMBING SCHEDULES AND DETAILS

CODE ANALYSIS:  
 CONSTRUCTION II B  
 OCCUPANCY IS E  
 NOT SPRINKLED  
 CODES USED 2015 IEBC LEVEL II, IBC, IFC,  
 NEC, AND ANSI 117.1/2009



VICINITY MAP



POUDRE SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528



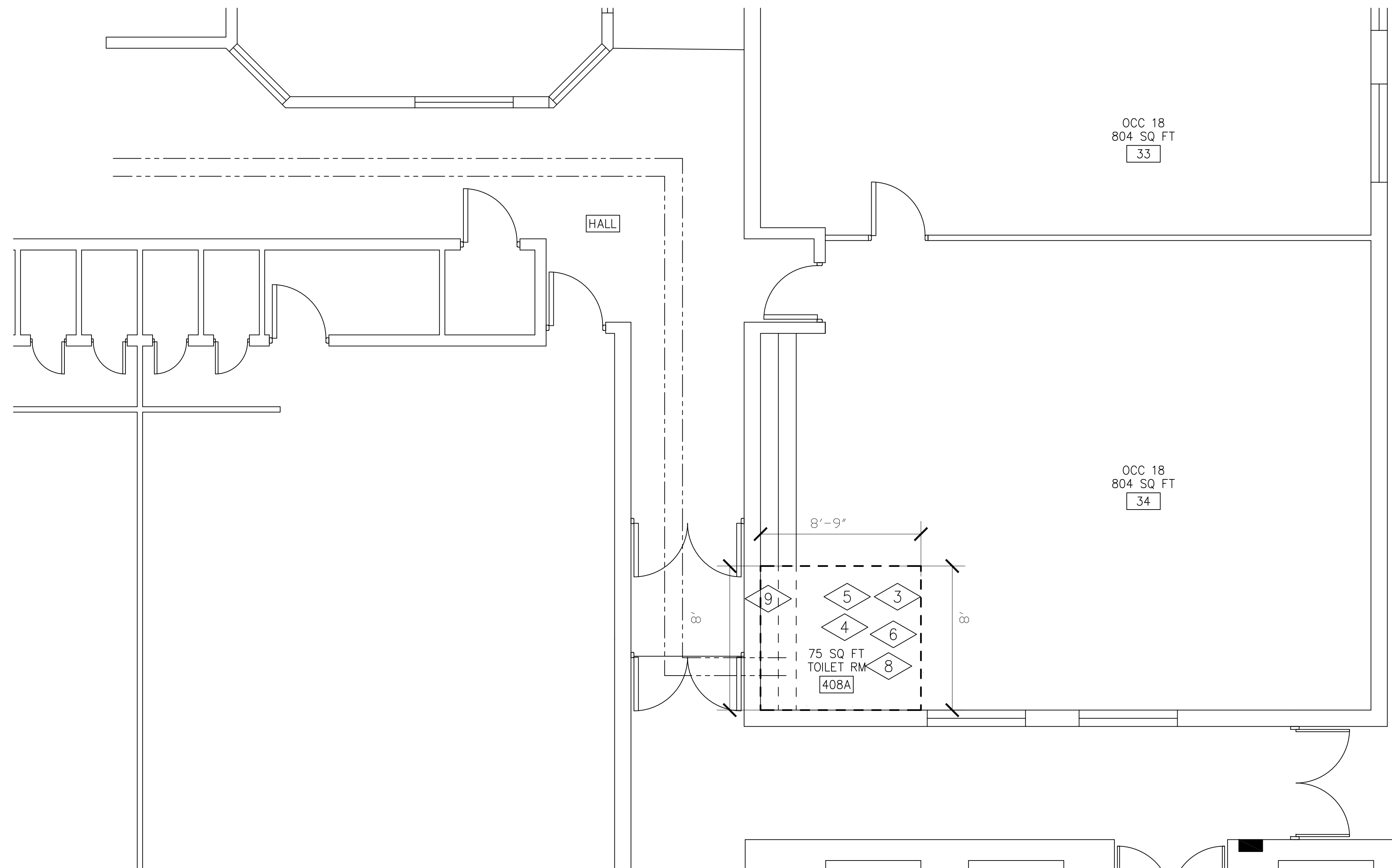
No.	Revision	Date



Sheet Title:  
 GRAPHICS

Project  
 EC REST ROOMS

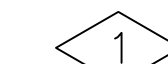
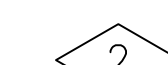
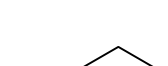
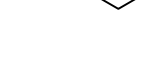
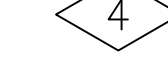
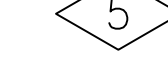
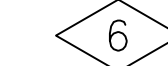
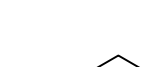
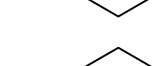
CONSTRUCTION SET

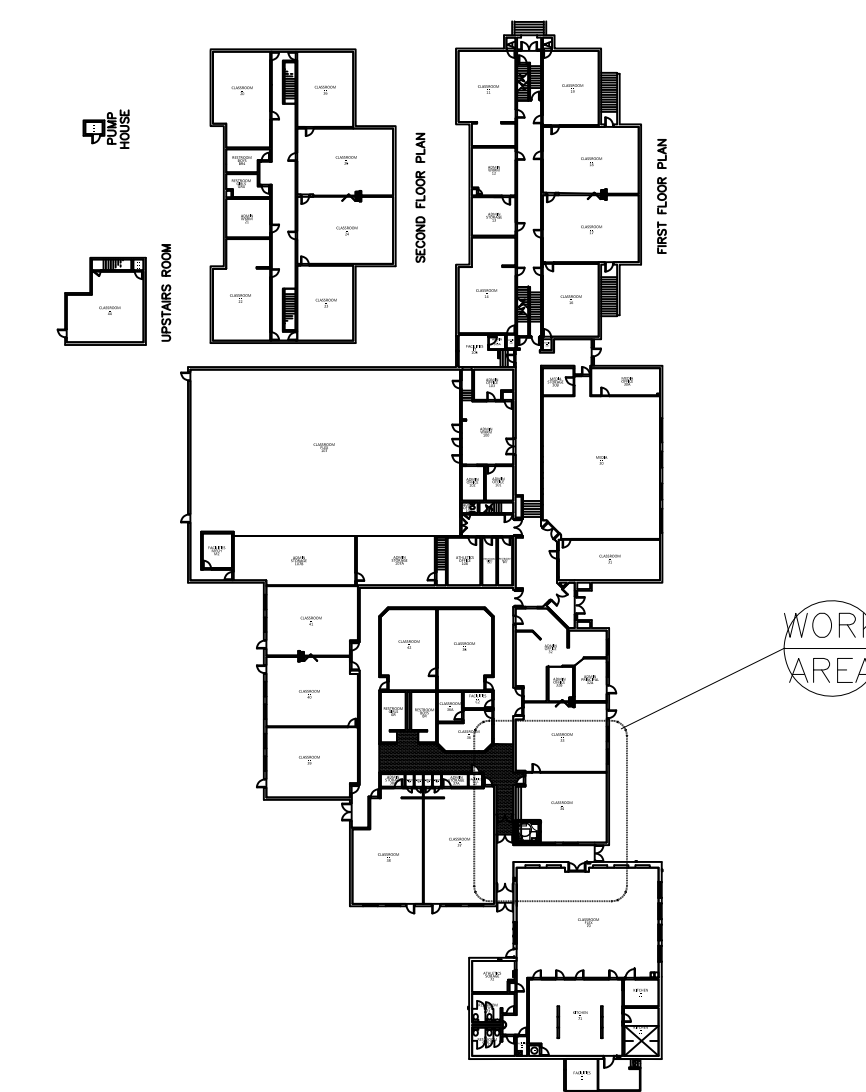
Date 03/02/2023	Sheet G100
Scale	



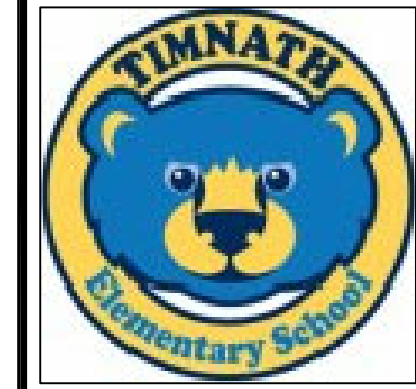

**PARTIAL FLOOR PLAN**  
 SCALE IN FEET  


KEY DEMO NOTES:

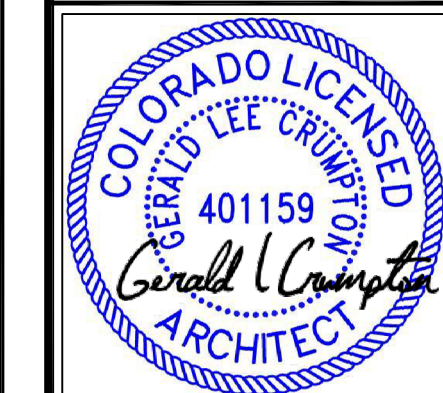
-  NOT USED
-  NOT USED
-  DEMO (E) SOFT CEILING TO ACCOMMODATE (N) WALLS/CEILING
-  DEMO FLOOR FOR SANITARY DRAIN SEE P SHEETS
-  DEMO ELECTRICAL SEE E SHEETS
-  CUT ROOF DECK FOR EF./SOIL STACK REPAIR SEE G1/A301 AND M SHEETS
-  NOT USED
-  DEMO LINO CAREFULLY NO ATTIC STOCK
-  R&R 8 LF (E) CASEWORK. CARE IS NEED TO CUT (E) COUNTER TOP. SALVAGE FOR REUSE. LOC TBD



KEY PLAN NTS



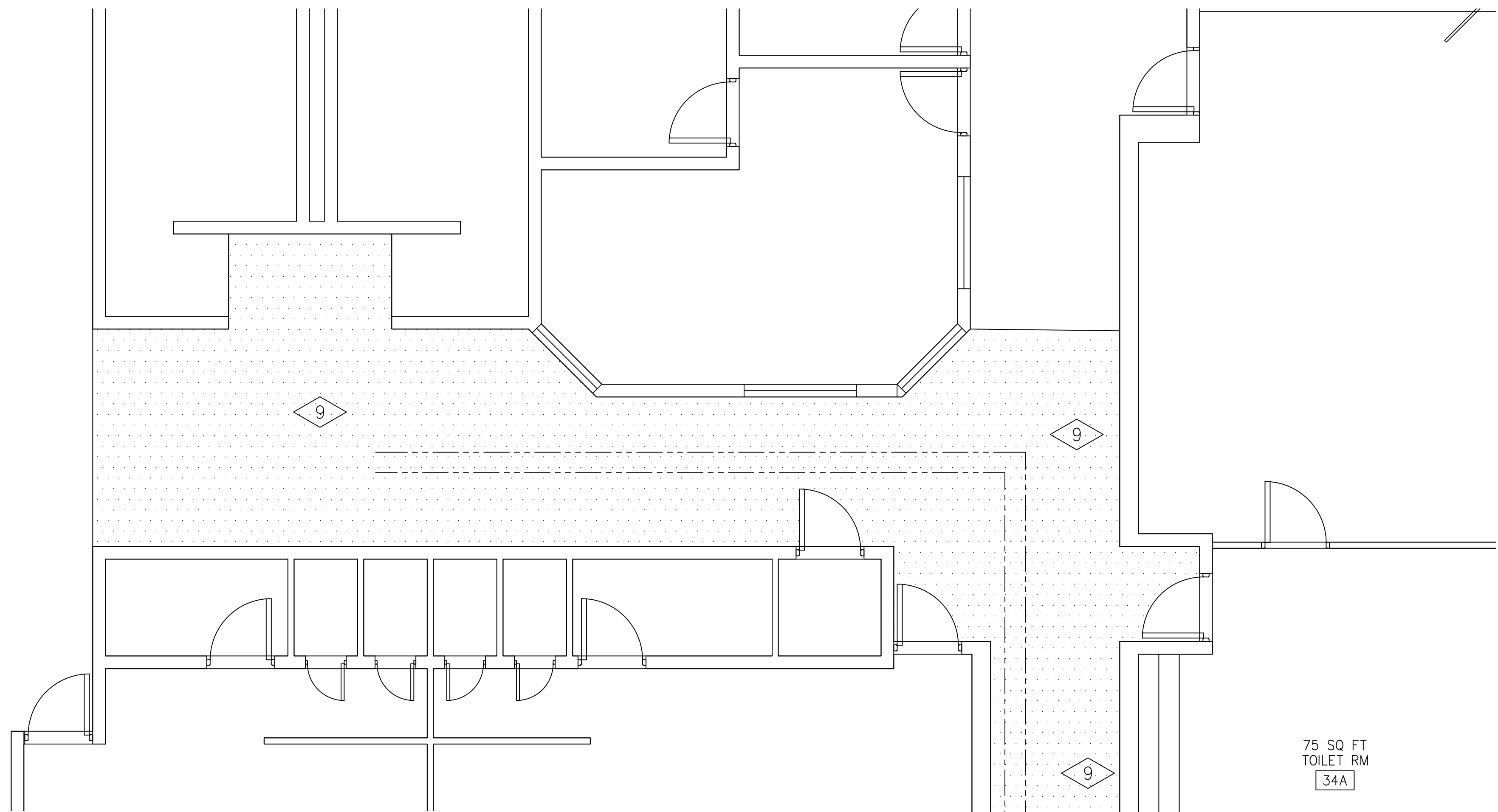
POUDRE SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528



No.	Revision	Date

Sheet Title:  
 DEMO

Project  
 EC REST ROOMS  
 DD SET  
 Date  
 02/20/2020  
 Scale  
 1/4"=1'-0"  
 Sheet  
 AD101



75 SQ FT TOILET RM  
34A

A  
A101

PATCH AND REPAIR TR CONCRETE FLOOR AS REQUIRED, PREP FOR INSTALLATION OF NEW EPOXY FLOORING AND BAS SPARTACOTE, DURA-A-FLEX, DEX-O-TEX DECOR EPOXY FLOORING SYSTEM OR APPROVED EQUAL RESINOUS FLOOR POLYASPARTIC COATING (DECORATIVE BROADCAST EPOXY FLOORING SYSTEM USING A COLORED QUARTZ OR PAINT CHIP ONLY)

KEY NOTES:

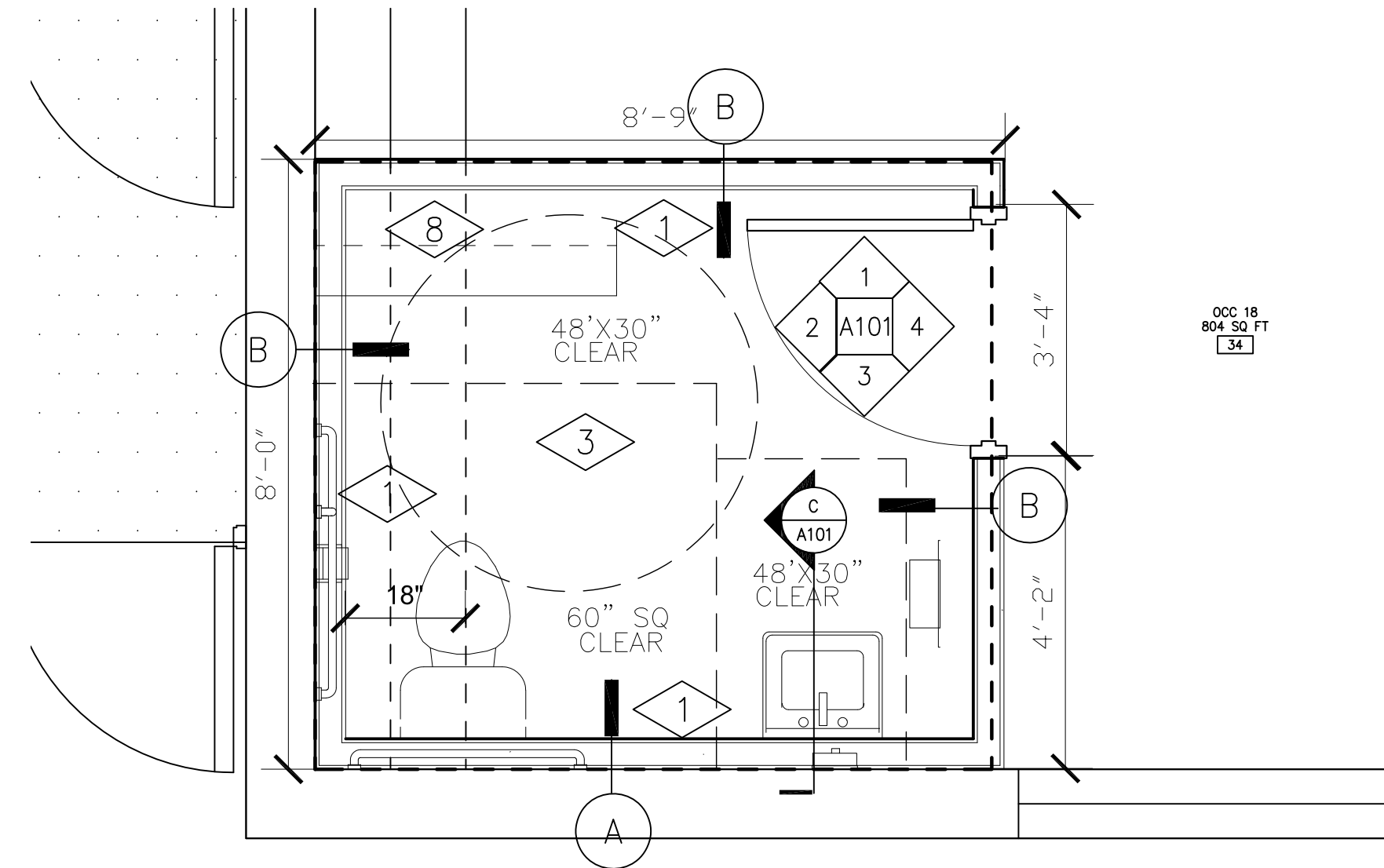
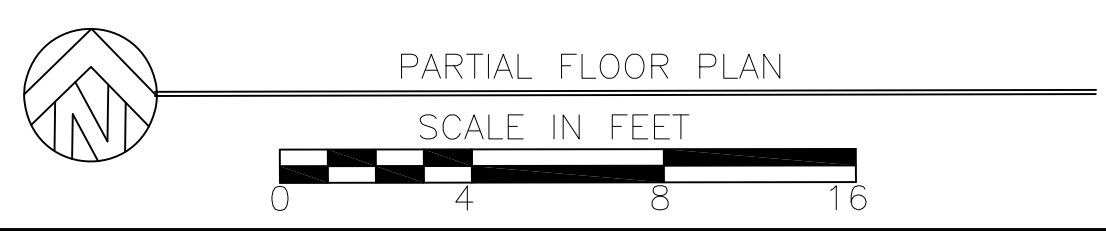
- 1 NEW WALLS AND CEILINGS
- 2 BUR ROOF VENT DETAIL SEE G1/A301
- 3 NEW HARD GYP CEILING INSULATE WITH SOUND ATTENUATION BATTS. SEE B/A301
- 4 PATCH CONCRETE REPAIR FLOOR COVERING MATCH (E)
- 5 NEW POURED ACRYLIC FLOORS AND INTEGRAL 4" COVE BASE
- 6 MEETS ANSI 117.1/2009 305, 404, AND 606
- 7 RFP GLASBOARD SANITARY PANELS SEC 068316 ALTERNATE 1  
4"x12" CERAMIC WALL TILES. DAL TILE, WALL COLOR ARTIC WHITE WHITE 0190, MUSTARD 1012 BULL NOSE CAPS.
- 8 FOLDING DIAPER TABLE AND LOCKABLE STORAGE CABINETS
- 9 REPLACE CARPET FV 680 SQ FT. PRIOR TO BIDDING

WALL TYPE PLUMBING ———— A ————

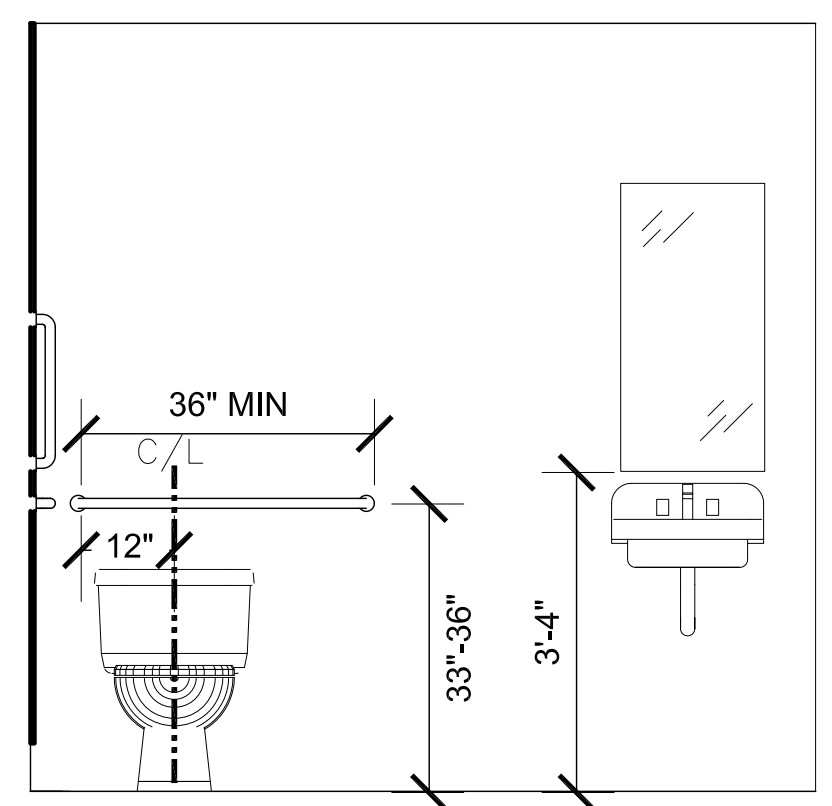
PLUMBING WALL ASSEMBLY: 7" NOMINAL WALL, 5/8"GYP, SOUND ATTENUATION INSULATION AND METAL 20 GA STUDS 16" OC. TAPE DRYWALL TO A LEVEL 4, PRIME AND PAINT. COLOR TBD.

WALL AND CEILING TYPE ———— B ————

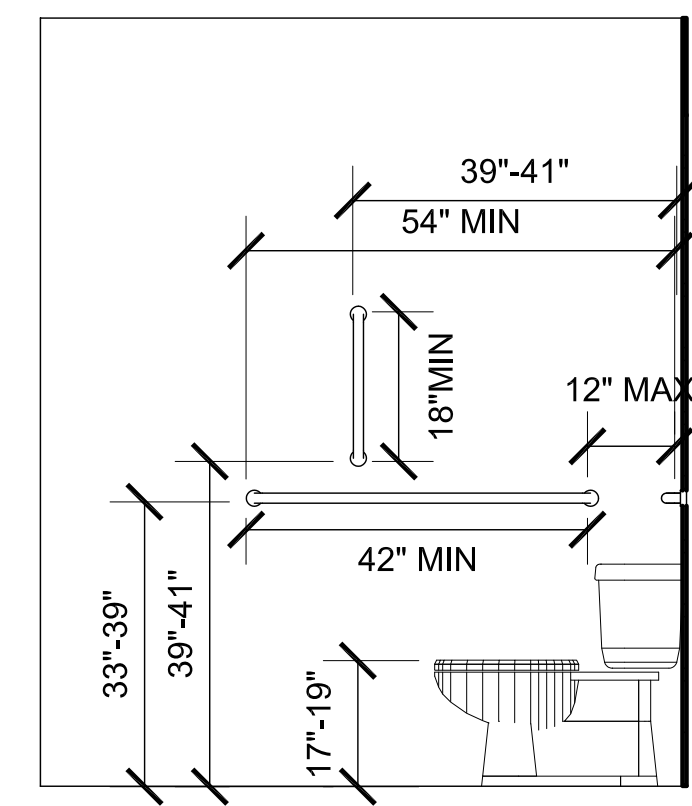
WALL ASSEMBLY: 5" NOMINAL WALL, 5/8"GYP, SOUND ATTENUATION INSULATION AND METAL 20 GA STUDS 16" OC. TAPE DRYWALL TO A LEVEL 4, PRIME AND PAINT. COLOR TBD. CEILING REQUIRES GYP ONE SIDE ONLY.



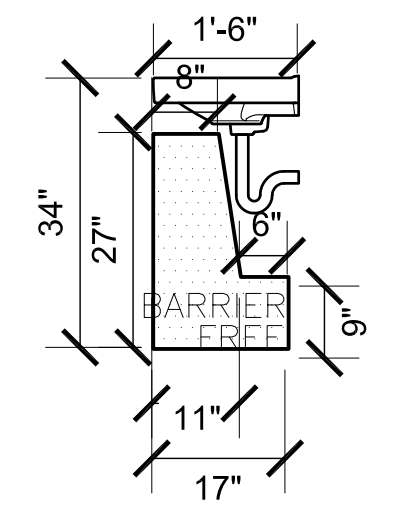
A ENLARGED FLOOR PLAN  
A101 SCALE 1/2" = 1'-0"



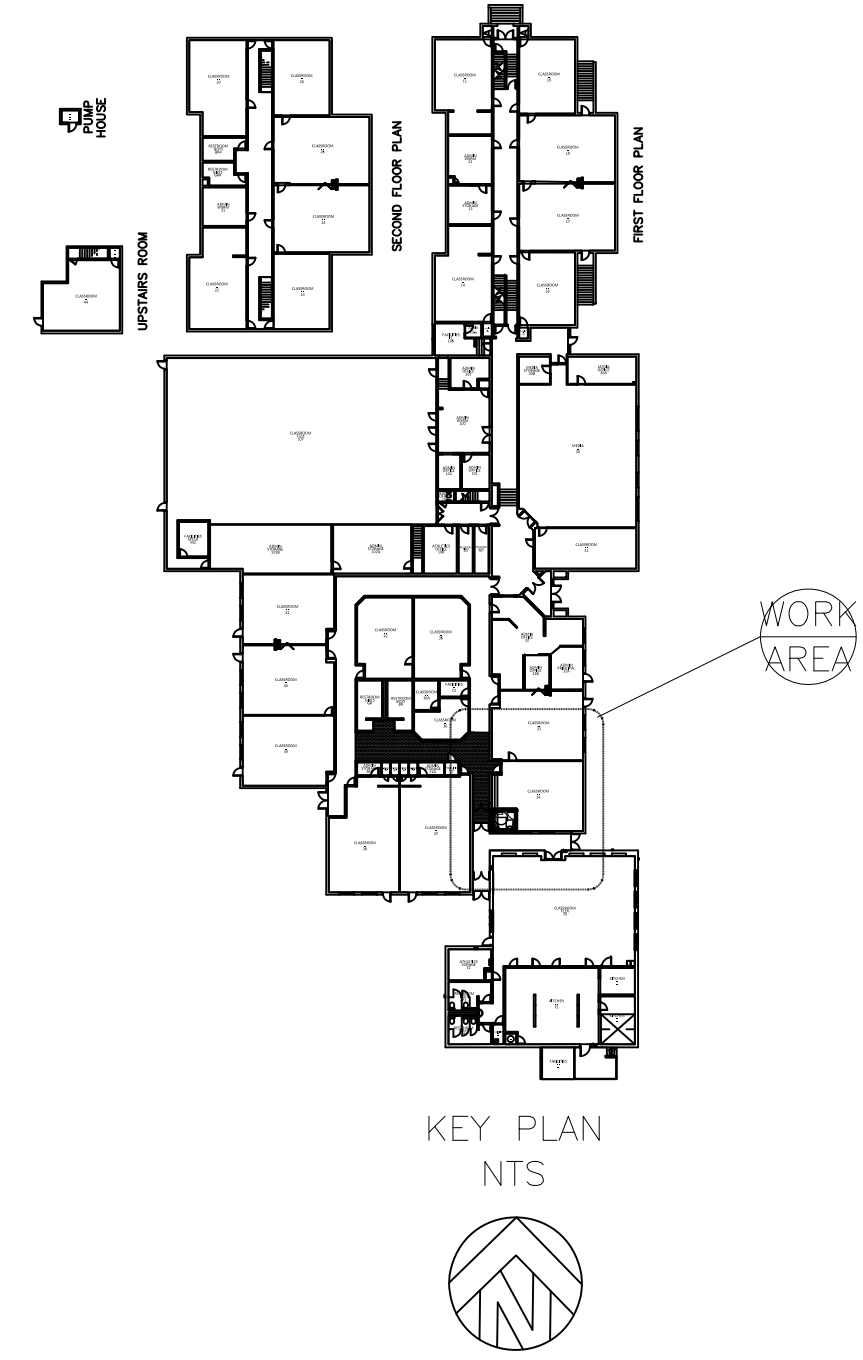
3 WALL ELEVATION  
SCALE 1/2" = 1'-0"



2 WALL ELEVATION  
SCALE 1/2" = 1'-0"



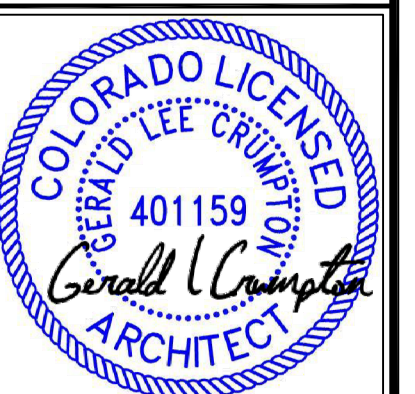
C WALL HUNG SINK SECTION  
SCALE 1/2" = 1'-0"



KEY PLAN  
NTS



POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
TIMNATH, CO 80528



No.	Revision	Date

Sheet Title:  
PLAN VIEW

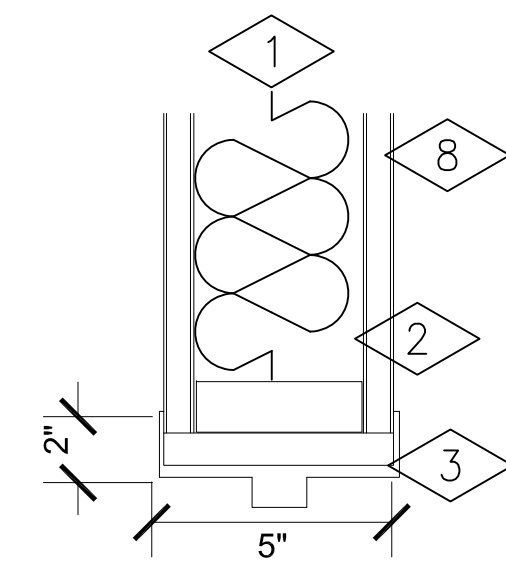
Project EC REST ROOMS	
DD SET	
Date 02/20/2020	Sheet A101
Scale 1/4"=1'-0"	

# FINISH SCHEDULES

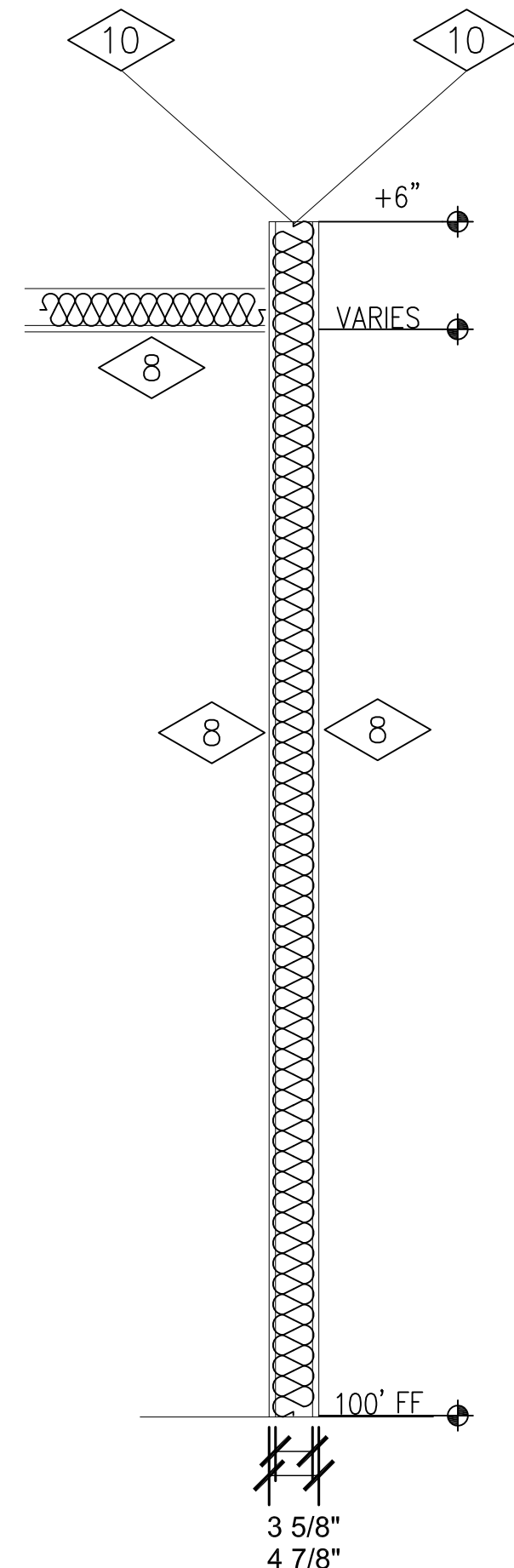
NUM.	ROOM NAME	DOOR TYPES						FRAME TYPES			DETAILS	REMARKS	
		TYPE	MAT'L	LABEL	HEIGHT	WIDTH	THICK	TYPE	MAT'L	LABEL			THROAT
34A	TOILET	NEW	WD	NR	7'-0"	3'-0"	1 3/4"	F1	HM	NR	5"	16 GA	NEW DOOR, FRAME AND HARDWARE
DOOR HARDWARE													
		LOCK SET			HINGES			DOOR STOP			KICK PLATE		SILENCERS
34A	TOILET	(1) EA PRIVACY LOCKSET ND40SRH 0626, 6 PIN CORE			(3) EA HINGES SBBL US32D IVE			(1) EA WALL STOP WS407 CCV US32D IVE			(1 ) EA KICKPLATE 8400 10"X34" US32D IVE		(1 ) ONE SET
WALL PAINT													
34A	TOILET	ONE COAT OF WHITE PRIMER DU-1507 PRO MAX, TWO COATS SEMI-GLOSS LAYTEX BASED DS1695 HEALTH KOTE OR APPROVED EQUAL											
CARPET													
34	CR	TANDUS, MANNINGTON OR MOHAWK ARE APPROVED MANUFACTURERS : MATCH EXISTING. MATERIAL MAY BE SHEET GOODS											
HALL	CR	TANDUS, MANNINGTON OR MOHAWK ARE APPROVED MANUFACTURERS : MATCH EXISTING. MATERIAL MAY BE SHEET GOODS											

## KEYED NOTES

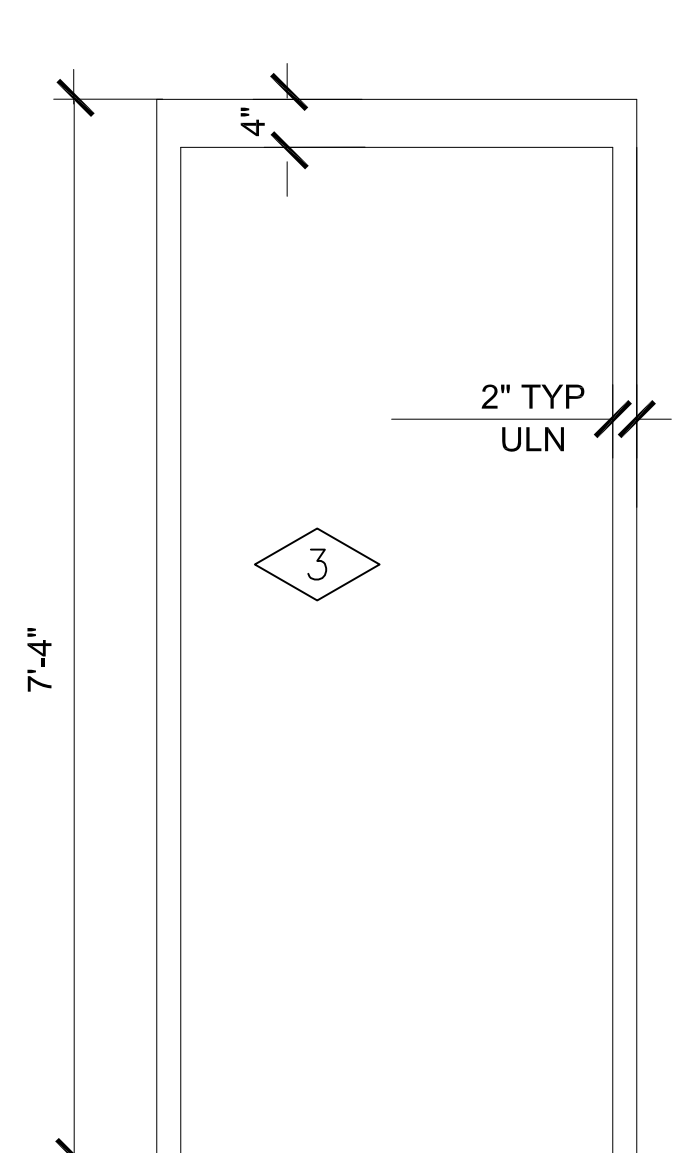
- 1 SOUND ATTENUATING INSULATION 3.5" . OWENS CORNING QUIETZONE
- 2 20 GA METAL STUD
- 3 HM FRAME 16 GA
- 4 PRE-FINISHED CLEAR MAPLE WOOD DOOR 1 3/4" THICK
- 5 PAINT TO MATCH EXISTING FRAME COLOR
- 6 PRIME AND PAINT (N) WORK, AND IMPACTED BY CONSTRUCTION
- 7 RFP GLASBOARD SANITARY PANELS SEC 068316 ALTERNATE 1 4"X12" CERAMIC WALL TILES. DAL TILE, WALL COLOR ARTIC WHITE WHITE 0190, MUSTARD 1012 BULL NOSE CAPS.
- 8 5/8" TYPE X GYP



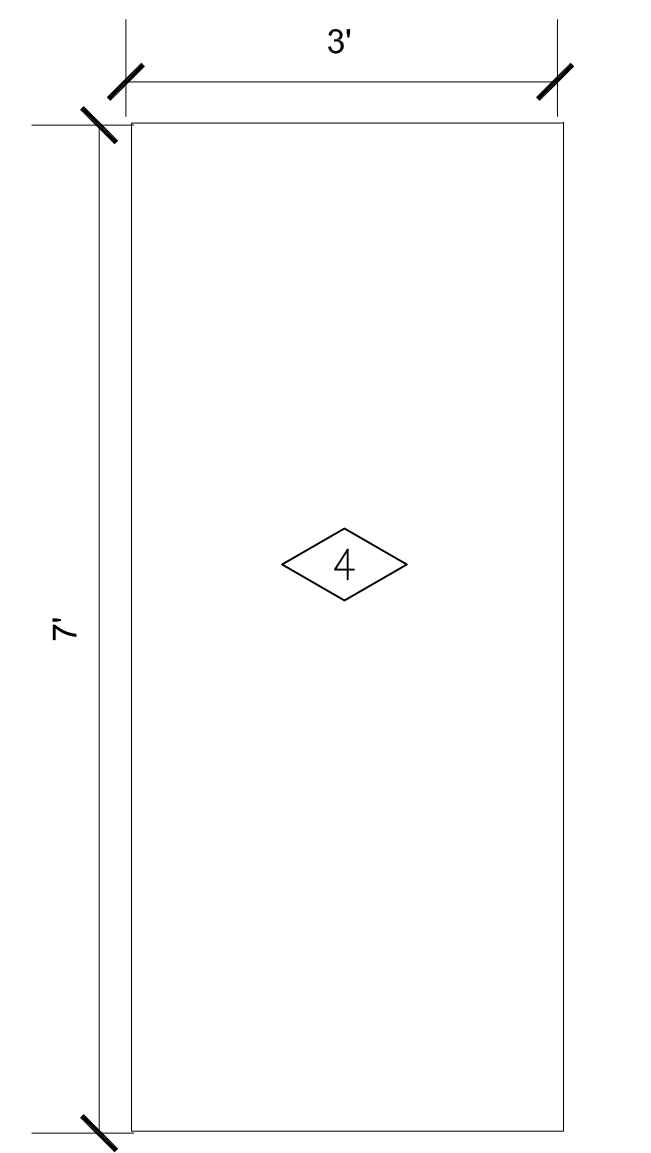
F1 JAMB PROFILE  
SCALE 3" = 1'-0"



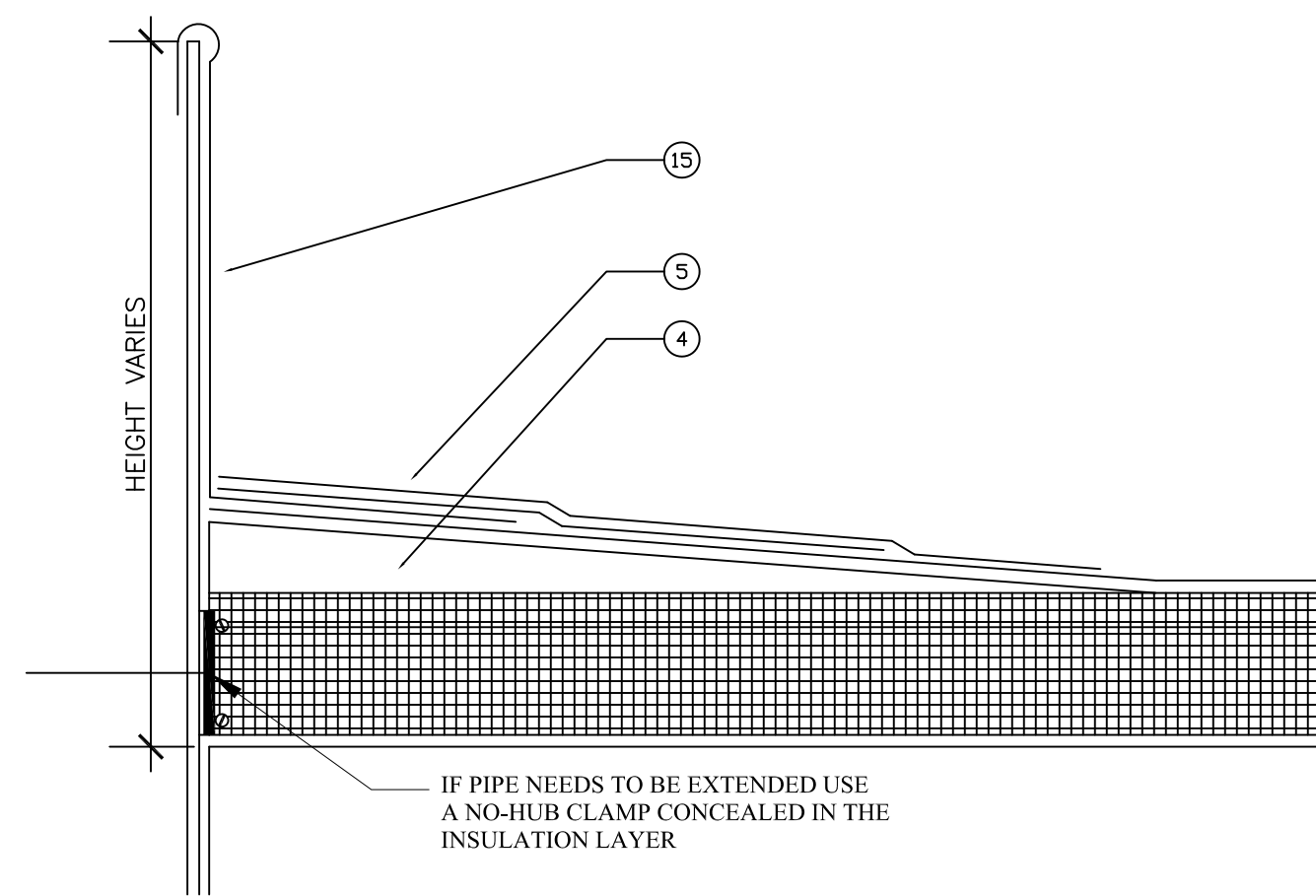
B NEW WALL/SECTION TYP  
SCALE 3/4" = 1'-0"



F1 PAINT FRAMES TO MATCH (E)  
SCALE 3/4" = 1'-0"



WD MATCH (E) DOOR COLOR/FINISH  
SCALE 3/4" = 1'-0"



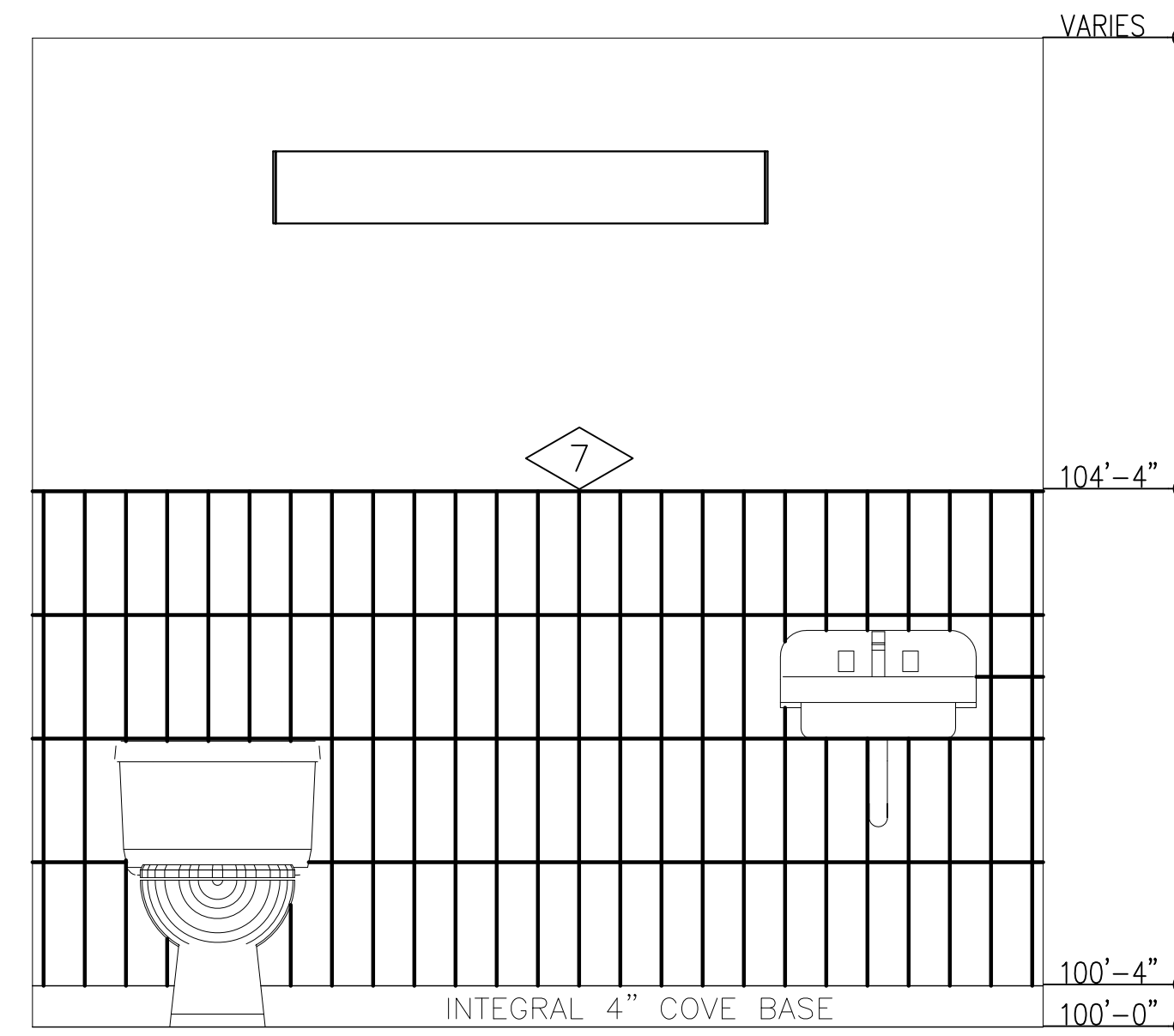
G1 BUR ROOF VENT DETAIL  
SCALE 3" = 1'-0"

4) TAPERED EDGE SET IN HOT ASPHALT OR MECHANICALLY FASTENED.

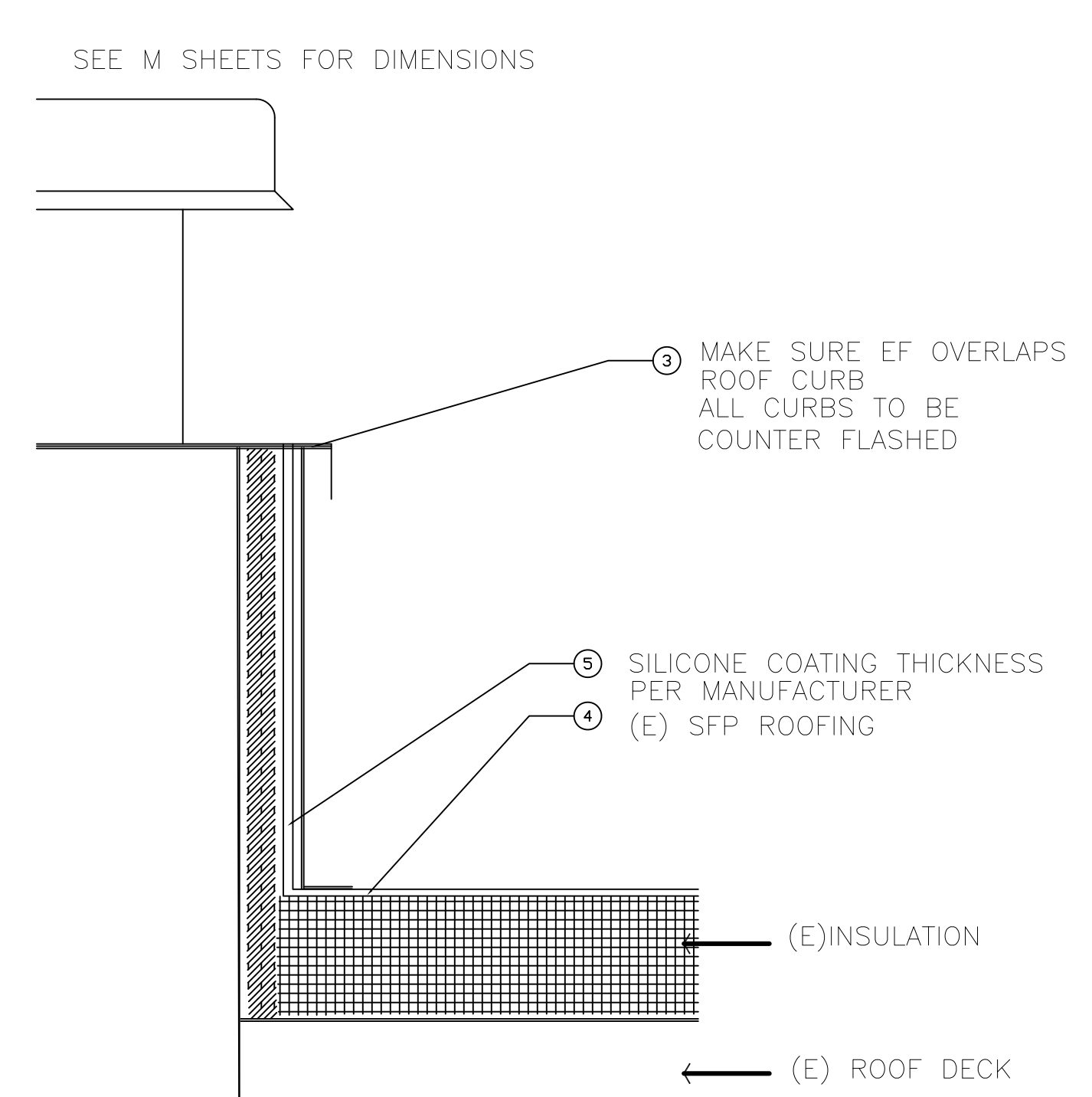
5) 5 COURSE STRIPPING (PLASTIC CEMENT, FABRIC, PLASTIC CEMENT, FABRIC, PLASTIC CEMENT).

15) LEAD JACK, PRIME, SET IN PLASTIC CEMENT, STRIP IN WITH COTTON FABRIC AND PLASTIC CEMENT 5 COURSE STYLE.

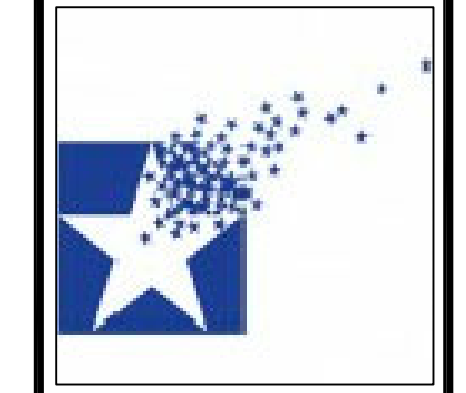
CONTRACTOR TO COORDINATE AND VERIFY ROOF PENETRATION OCCURS IN THE FLAT PORTION OF THE ROOF



3 TYP WALL ELEVATIONS(4)  
SCALE 3/4" = 1'-0"



H1 EF BUR ROOF DETAIL  
SCALE 3" = 1'-0"



POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
FORT COLLINS, CO 80525



No.	Revisor	Date

Sheet Title:  
SCHEDULES  
DETAILS

Project EC REST ROOMS	
DD SET	
Date 02/20/2020	Sheet A301
Scale VARIES	

GENERAL CONSTRUCTION NOTES

- THE ELECTRICAL CONTRACTOR SHALL VERIFY THAT ALL ELECTRICAL ITEMS TO REMAIN OR BE RELOCATED AND REUSED ARE IN WORKING ORDER PRIOR TO ANY DEMOLITION WORK. IF THE EXISTING MATERIAL IS FOUND TO BE INOPERABLE, CONTRACTOR SHALL INFORM THE OWNER. ONCE ANY DEMOLITION WORK HAS BEGUN, ANY INOPERABLE OR DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- VERIFICATION OF EXISTING CONDITIONS. "IN AS MUCH AS THE REMODELING AND/OR REHABILITATION OF THE EXISTING BUILDING REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT DESTROYING OTHERWISE ADEQUATE OR SERVICEABLE PORTIONS OF THE BUILDING, THE GENERAL CONTRACTOR AGREES THAT, EXCEPT FOR NEGLIGENCE ON THAT PART OF THE DESIGN PROFESSIONAL THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL FROM AND AGAINST ANY AND ALL CLAIMS ARISING OUT OF THE PROFESSIONAL SERVICES PROVIDED."
- ANY ELECTRICAL ITEMS SHOWN OR NOT SHOWN ON THE PLANS, OR WHERE CIRCUITS ARE REMOVED BY DEMOLITION, SHALL UPON COMPLETION OF REMODEL WORK BE LEFT IN WORKING CONDITION.
- ALL PHASES OF THE ELECTRICAL WORK SHALL BE COORDINATED WITH THE ARCHITECT. WORK SHALL BE DONE IN A FASHION TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO THE OWNER.
- IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO REVIEW ALL DRAWINGS FOR WORK UNDER THIS CONTRACT. NO EXTRAS WILL BE ALLOWED FOR WORK SHOWN ON MECHANICAL AND ARCHITECTURAL DRAWINGS.
- ELECTRICAL DEVICES NOTED TO BE REMOVED SHALL BE REMOVED BACK TO A POINT WHERE EXISTING CONDUIT CAN BE ABANDONED IN CONCEALED SPACES. REMOVE ALL WIRING FROM ABANDONED CONDUIT. ALL BOXES TO BE REMOVED SHALL BE TAKEN OUT OF WALLS AND HAVE HOLES REFINISHED TO MATCH WALL FINISH.
- ELECTRICAL CONTRACTOR SHALL NOT DEFACE ANY AREAS OF THE BUILDING WHERE REMODELING IS NOT BEING DONE.
- THE ELECTRICAL CONTRACTOR SHALL BE ON SITE DURING ALL ELECTRICAL INSPECTIONS. NO ADDITIONAL FEES OR OVERTIME WILL BE PAID FOR AFTER HOURS INSPECTIONS.
- RACEWAYS: ALL CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE. CONDUIT SHALL NOT BE EXPOSED IN FINISHED AREAS (EXCLUDES MECHANICAL ROOMS, STORAGE CLOSETS, AND SIMILAR AREAS). EXPOSED RACEWAYS SHALL BE SURFACE RACEWAYS PER SPECIFICATIONS.
- ROUTING OF EXISTING CONCEALED CONDUIT NOT KNOWN. LOCATION DETERMINED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL RE-CIRCUIT AS NOTED UTILIZING ANY EXISTING CONDUIT. HE SHALL REMOVE EXISTING WIRE AND RE-PULL NEW. ALL NEW CONDUIT ADDED SHALL BE CONCEALED WHEREVER POSSIBLE.
- SURFACE RACEWAY: WHEREVER CONCEALED CONDUIT IN FINISHED AREAS IS NOT POSSIBLE, ELECTRICAL CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAYS EQUAL TO WIREMOLD. RUN SURFACE RACEWAYS IN CORNER OF WALL AND CEILING. ALL RACEWAYS THAT ARE EXPOSED SHALL BE APPROVED BY ARCHITECT PRIOR TO ROUGH-IN.
- TERMINATING AND SPLICING: MAKE ALL JOINTS AND SPLICES IN BRANCH CIRCUIT WIRING WITH APPROVED SOLDERLESS TOOL APPLIED OR TWIST-ON CONNECTORS, IN THE VARIOUS BOXES, GUTTERS, AND SIMILAR LOCATIONS, BUT NOT IN RACEWAYS. LEAVE SUFFICIENT SLACK TO PERMIT TWO (2) OR MORE SPLICES OR JOINTS TO BE REMADE IN CASE OF FAULT.
- NM (ROMEX CABLE) WILL NOT BE ALLOWED ON THIS PROJECT.
- ELECTRICAL CONTRACTOR SHALL RECEIVE, FROM SYSTEM SUPPLIERS, ALL WIRING DIAGRAMS FOR ALL EQUIPMENT, PRIOR TO ANY ROUGH-IN, TO ASSURE PROPER ELECTRICAL CHARACTERISTICS ARE PROVIDED. ELECTRICAL CONTRACTOR SHALL PROVIDE ARCHITECT WRITTEN NOTIFICATION PRIOR TO ROUGH-IN, THAT ALL WIRING DIAGRAMS HAVE BEEN RECEIVED AND REVIEWED FOR CORRECTNESS. ANY INCORRECT WIRING OR DEVICES INSTALLED BY ELECTRICAL CONTRACTOR WITHOUT WIRING DIAGRAMS SHALL BE CORRECTED AT ELECTRICAL CONTRACTOR'S EXPENSE.
- ELECTRICAL CONTRACTOR SHALL RECEIVE, FROM MECHANICAL CONTRACTOR, ALL WIRING DIAGRAMS AND SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PRIOR TO ANY ROUGH-IN, TO ASSURE PROPER ELECTRICAL CHARACTERISTICS, VOLTAGE, PHASE, HORSEPOWER, AMPERE, KILOWATTS AND ETC. ARE PROVIDED. ELECTRICAL CONTRACTOR SHALL PROVIDE ARCHITECT WRITTEN NOTIFICATION PRIOR TO ANY ROUGH-IN, THAT ALL WIRING DIAGRAMS AND SHOP DRAWINGS HAVE BEEN RECEIVED AND REVIEWED FOR CORRECTNESS. ANY INCORRECT WIRING OR DEVICES INSTALLED BY ELECTRICAL CONTRACTOR WITHOUT WIRING DIAGRAMS SHALL BE CORRECTED AT ELECTRICAL CONTRACTOR'S EXPENSE.
- COORDINATE WITH MECHANICAL CONTRACTOR LOCATION AND INSTALLATION OF ANY ELECTRICAL CONTROLS FOR MECHANICAL UNITS AND PROVIDE 120V CIRCUIT AS REQUIRED.
- ALL EXISTING AND NEW SMOKE DETECTORS IN OR NEAR AREAS BEING REMODELED SHALL BE BAGGED OR REMOVED. IF REMOVED, STORE IN A SEALED BAG UNTIL ALL REMODELING WORK IS COMPLETE. IF SMOKE DETECTORS ARE NOT BAGGED OR REMOVED THEY SHALL BE REPLACED WITH NEW DETECTORS AT CONTRACTOR'S EXPENSE WHEN THE PROJECT IS COMPLETED.
- EXACT ELECTRICAL DEMOLITION REQUIREMENTS NOT SHOWN ON THE DRAWINGS. ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXACT DEMOLITION WORK TO BE DONE AND SHALL INCLUDE ALL DEMOLITION COSTS IN THEIR BID.
- ELECTRICAL CONTRACTOR SHALL VERIFY ELECTRICAL DEVICE LOCATIONS IN ALL CASEWORK WITH ARCHITECTURAL CASEWORK DETAILS PRIOR TO ANY ROUGH-IN.
- THE CONTRACTOR SHALL COORDINATE ALL ELECTRICAL DEVICE LOCATIONS WITH THE ARCHITECTURAL PLANS, ELEVATIONS, AND DIAGRAMS.

- ELECTRICAL CONTRACTOR SHALL VERIFY FINAL LOCATIONS OF ALL SINKS WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. ANY ELECTRICAL DEVICES LOCATED ABOVE COUNTER AND BEHIND FINAL SINK LOCATIONS SHALL BE SHIFTED A MINIMUM OF 6" TO EITHER SIDE OF SINK. ANY ELECTRICAL DEVICES LEFT BEHIND SINK AT TIME OF FINAL ELECTRICAL OBSERVATION SHALL BE RELOCATED AT ELECTRICAL CONTRACTOR'S EXPENSE.
- BACK TO BACK RECEPTACLES ARE NOT PERMITTED. MAINTAIN SEPARATION OF AT LEAST ONE STUD - REFER TO ARCHITECTURAL ACOUSTICAL DETAILS. IF BOXES ARE WITHIN 24" OF EACH OTHER IN A FIRE RATED WALL A FIRE BARRIER MOLDABLE PUTTY (3M OR EQUIVALENT) SHALL BE USED.
- FEED THROUGH GFCI PROTECTION OF RECEPTACLES IS ACCEPTABLE ONLY WHERE RECEPTACLES ARE IN SAME ROOM AND DRAWINGS DO NOT INDICATE OTHERWISE.
- PROVIDE BLANK COVER PLATES AND INSTALL THEM ON ALL UNUSED ROUGH-INS.
- INSTALL PIGTAIL AT ALL RECEPTACLES FOR FINAL CONNECTIONS.
- ALL NEW ELECTRICAL ITEMS SHOWN ON EXISTING WALLS AND CEILINGS SHALL BE FLUSH MOUNTED UNLESS NOTED OTHERWISE. CUT AND PATCH EXISTING WALLS AND CEILINGS TO CONCEAL ALL MOUNTING BOXES AND CONDUITS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH GC TO MAINTAIN FIRE RATINGS FOR ALL CONDUIT PENETRATIONS, INCLUDING CONDUIT SLEEVES, THROUGH FIRE RATED CONSTRUCTION. THIS INCLUDES SEALING ALL SPARE CONDUITS (SPECIAL SYSTEMS, ETC.).
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MEASURE THE HORIZONTAL AND VERTICAL DIMENSIONS OF HIS WORK BEFORE INSTALLATION AND COORDINATE THESE DIMENSIONS WITH OTHER CONTRACTORS IMMEDIATELY. IF CEILING HEIGHTS ARE AFFECTED, NOTIFY THE OTHER CONTRACTORS AND THE ARCHITECT IMMEDIATELY. FAILURE TO DO SO WILL RESULT IN REJECTION OF INSTALLED WORK AND REINSTALLATION OF PROPERLY LOCATED AND COORDINATED WORK WILL BE AT THIS CONTRACTOR'S EXPENSE.
- LIGHT FIXTURES AND DEVICES IN 1-HOUR FIRE RATED CEILINGS MUST BE "TENTED". TENTING WILL BE PERFORMED BY OTHERS (EC TO COORDINATE WITH GC). COORDINATE HEIGHT REQUIRED FOR ADDITIONAL TENTING WITH CEILING AND MECHANICAL CONTRACTORS. REFER TO ARCHITECTURAL DRAWINGS.
- FIXTURE WHIPS SHALL BE SUPPORTED ABOVE ACCESSIBLE CEILING. LAYING FIXTURE WHIPS ON TOP OF THE GRID OR SUPPORTING USING THE FIXTURE HANGERS IS NOT ALLOWED. FIXTURE WHIPS SHALL NOT CONTACT PLUMBING.
- RELOCATIONS: OWNER RESERVES THE RIGHT TO RELOCATE ANY ELECTRICAL DEVICE, UP TO A DISTANCE OF 12'-0", BEFORE INSTALLATION WITHOUT EXTRA CHARGE FROM ELECTRICAL CONTRACTOR.
- ELECTRICAL DRAWINGS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF ALL SYSTEMS AND EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH OTHER TRADES PRIOR TO ANY INSTALLATION. WHERE EXACT LOCATIONS ARE NECESSARY, THEY ARE DIMENSIONED ON THESE DRAWINGS. WHERE THERE IS A QUESTION OF ADEQUATE CLEARANCE OR COORDINATION BETWEEN TRADES, THIS CONTRACTOR SHALL PREPARE SHOP DRAWINGS FOR ENGINEER'S REVIEW. ON ALL SPECIAL SYSTEMS REQUIRING DRAWINGS BY LICENSED INSTALLATION CONTRACTORS, SUCH AS FIRE PROTECTION, SUCH DRAWINGS SHALL BE SUBMITTED WITHIN 30 DAYS AFTER AWARD OF CONTRACT.
- EMT CONDUIT FITTINGS: DRY LOCATIONS ALL EMT COUPLERS AND CONNECTORS SHALL BE STEEL SET SCREW TYPE. DIE CAST FITTINGS SHALL NOT BE USED ON THIS PROJECT. DAMP/WET LOCATIONS, USE STEEL COMPRESSION GLAND TYPE COUPLER AND CONNECTORS.
- ALL WIRING INCLUDING SPECIAL SYSTEMS/LOW VOLTAGE THAT IS IN AN EXPOSED CEILING AREA SHALL BE IN CONDUIT. ALL SPLICES SHALL BE IN J-BOXES.
- ACCESS PANELS REQUIRED BY THE ELECTRICAL CONTRACTOR SHALL BE PROVIDED BY THE ELECTRICAL BID CONTRACTOR, THEN TURNED OVER TO THE APPROPRIATE TRADE FOR INSTALLATION. SEE ARCHITECTURAL SPECIFICATION.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH THE GENERAL CONTRACTOR TO OBTAIN ACTUAL ROOM NAMES AND NUMBERS, DESIGNATED BY THE OWNER/ARCHITECT AT THE COMPLETION OF THE PROJECT. ACTUAL ROOM NAMES AND NUMBERS SHALL BE USED ON ALL PANEL SCHEDULES, COMPUTER PROGRAMMING, GRAPHIC PLAQUES, SOUND SYSTEMS, TELEPHONE SYSTEM, INTERCOMS, FIRE ALARMS, SECURITY SYSTEMS, CATV SYSTEMS, AND SIMILAR.
- CONTRACTOR SHALL NOT FASTEN, ATTACH OR HANG ANY MATERIAL FROM THE ROOF DECK. ALL CONDUITS, JUNCTION BOXES, FIXTURES, DEVICES AND EQUIPMENT SHALL BE HUNG FROM THE STRUCTURAL STEEL FRAME AND SHALL BE PLACED WITH A MINIMUM CLEARANCE PER 2017 NEC BELOW THE ROOF DECK. WIRING AND CONDUITS SHALL NOT BE PLACED WITHIN THE RIBS OF THE ROOF DECK. CONTRACTOR SHALL NOT LOOSEN, REMOVE OR CUT ANY ROOFING SYSTEM FASTENERS PROTRUDING THROUGH THE ROOF DECK.
- ALL ELECTRICAL DEVICES, CONDUIT, J-BOXES, CABLE SUPPORTS, ETC. THAT ARE REQUIRED TO BE SUPPORTED ABOVE THE GRID CEILINGS SHALL BE SUPPORTED FROM THE STRUCTURE VIA THREADED RODS, ALL AREAS.
- MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED U.O.N. ON DRAWINGS. WHERE THEY ARE INSTALLED THEY SHALL BE COMMON TRIP OR HAVE HANDLE TIES AS REQUIRED BY 2017 N.E.C.
- SWITCHES AND RECEPTACLES SHALL BE IDENTIFIED AS TO PANEL AND CIRCUIT BREAKER FED FROM. LABEL COVERPLATE ON FRONT PER SPECIFICATION AND ON BACK WITH PERMANENT INK ENSURE NO BLEED THROUGH.
- THESE DRAWINGS ARE SUBJECT TO AN APPROVAL OF THE BUILDING DEPARTMENT, FIRE MARSHAL, UTILITY COMPANY, AND OTHER AGENCIES AUTHORITY HAVING JURISDICTION (AHJ). BY THE ACT OF SUBMITTING A BID PROPOSAL FOR WORK, THE CONTRACTOR HAS REVIEWED THE PLANS THOROUGHLY AND ACCEPTS FULL RESPONSIBILITY OF PLAN CORRECTIONS AND ASSOCIATED CONSTRUCTION COSTS REQUIRED BY AHJ.
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- FIRE ALARM IS DESIGN BUILT BY CONTRACTOR, PROVIDE COLORADO PE STAMPED FIRE ALARM DRAWINGS ACCORDINGLY.

ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER	MC	MECHANICAL CONTRACTOR
AFF	ABOVE FINISHED FLOOR	MCB	MAIN CIRCUIT BREAKER
AFG	ABOVE FINISHED GRADE	MDP	MAIN DISTRIBUTION PANEL
AIC	AMP. INTERRUPTING CAPACITY	MECH	MECHANICAL
AL	ALUMINUM	MLO	MAIN LUG ONLY
ANN	ANNUNCIATOR	MTD	MOUNTED
ARCH	ARCHITECT	(N)	NEW
BFG	BELOW FINISHED GRADE	NF	NON FUSED
BKR	BREAKER	N.T.S.	NOT TO SCALE
BTM	BOTTOM	NL	NIGHT LIGHT
BWE	BAKED WHITE ENAMEL	PB	PUSH BUTTON
C	CONDUIT	PC	PHOTO CELL
CASA	COLOR AS SELECTED BY ARCHITECT	PH	PHASE
CATV	CABLE TELEVISION	PNL	PANEL
CKT	CIRCUIT	PT	POTENTIAL TRANSFORMER
CLG	CEILING	PWR	POWER
CT	CURRENT TRANSFORMER	RECEPT, RCPT, REC	RECEPTACLE
CU	COPPER	RL	RELOCATE
DISC	DISCONNECT	DOWN	DOWN
DN	DOWN	RT	RAIN TIGHT, NEMA 3R
DPDT	DOUBLE POLE DOUBLE THROW	SCA	SHORT CIRCUIT AVAILABLE
DPST	DOUBLE POLE SINGLE THROW	SPC	SPACE
EC	ELECTRICAL CONTRACTOR	SPD	SURGE PROTECTION DEVICE
ELEC	ELECTRICAL	SPDT	SINGLE POLE DOUBLE THROW
EM	EMERGENCY	SPST	SINGLE POLE SINGLE THROW
EMT	ELECTRICAL METALLIC TUBING	SPR	SPARE
EWC	ELECTRICAL WATER COOLER	SSL	SOLID-STATE LIGHTING
EXIST, EX. (E)	EXISTING	SW	SWITCH
F.	FUSED	T-STAT	THERMOSTAT
FLR	FLOOR	TBD	TO BE DETERMINED
FLUOR	FLUORESCENT	TC	TIME CLOCK
GC	GENERAL CONTRACTOR	TTB	TELEPHONE TERMINAL BACKBOARD
GFI	GROUND FAULT INTERRUPTER	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	U.O.N.	UNLESS OTHERWISE NOTED
GRD	GROUND	UC	UNDER COUNTER
HOA	HAND-OFF-AUTO	V	VOLTS
HT	HEAT TRACE	VA	VOLT-AMPERES
IG	ISOLATED GROUND	VAC	VOLTS-ALTERNATING CURRENT
J-BOX	JUNCTION BOX	VFD	VARIABLE FREQUENCY DRIVE
LED	LIGHT-EMITTING DIODE	W	WATTS
LOC	LOCATION	W/	WITH
LTG	LIGHTING	W/O	WITHOUT
LTF	LIQUID TIGHT FLEXIBLE CONDUIT	WG	WIRE GUARD
LTS	LIGHTS	WP	WEATHERPROOF
		XFMR	TRANSFORMER

NOTE: THIS IS A COMPREHENSIVE LEGEND AND ABBREVIATIONS LIST AND ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

ELECTRICAL DRAWING INDEX

E001	GENERAL CONSTRUCTION NOTES AND LEGEND
ED101	ELECTRICAL DEMO PLANS
E101	ELECTRICAL PLAN
E201	ELECTRICAL SPECIFICATIONS

ELECTRICAL LEGEND

	FLAG NOTE	\$	NOTE: ALL SWITCHES SHALL BE MOUNTED AT 48" AFF TO TOP OF BOX (U.O.N.)
	MECHANICAL EQUIPMENT SYMBOL	\$	SINGLE POLE SWITCH, 20 AMP U.O.N.
	SPECIAL EQUIPMENT SYMBOL	\$2	DOUBLE POLE SWITCH, 20 AMP U.O.N.
	INDICATES AIMING DIRECTION	\$3	3 - WAY SWITCH, 20 AMP U.O.N.
	INDICATES EXISTING DEVICE TO REMAIN	\$30	SINGLE POLE SWITCH, 20 AMP U.O.N. 3 - THREE WAY, a - SWITCHING
	INDICATES EXISTING DEVICE TO BE REMOVED	\$4	4 - WAY SWITCH, 20 AMP U.O.N.
	EXISTING CIRCUIT RUN TO REMAIN	\$K	KEYED SWITCH, 20 AMP U.O.N.
	EXISTING CIRCUIT RUN TO BE REMOVED	\$P	PILOT SWITCH, 20 AMP U.O.N. SWITCH ON, LIGHT ON
	CIRCUIT RUN: EXPOSED	\$TO	SWITCH WITH THERMAL OVERLOAD, 20 AMP U.O.N.
	CIRCUIT RUN: UNDERFLOOR	\$TS	DIGITAL TIMER SWITCH
	CIRCUIT RUN: UNDERGROUND	\$VS	SWITCH VARIABLE SPEED
	CIRCUIT RUN: WALLS OR CEILING	\$LV	SWITCH LOW VOLTAGE
	CIRCUIT TURNS UP	\$D	DIMMER SWITCH AS NOTED, 20 AMP U.O.N.
	CIRCUIT TURNS DOWN	\$P	COMBINATION SWITCH/RECEPTACLE
	UNDERGROUND TELEPHONE RUN	\$	SINGLE RECEPTACLE, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	UNDERGROUND SECONDARY OR PRIMARY SERVICE	\$	DUPLEX RECEPTACLE, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	GROUND BUS	\$GFI	DUPLEX RECEPTACLE, INDIVIDUAL GROUND FAULT RECEPTACLE
	SURFACE RACEWAY	\$	DOUBLE DUPLEX RECEPTACLE, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	PLUG STRIP AS NOTED	\$	DUPLEX RECEPTACLE, SPLIT WIRED
	LOW VOLTAGE CIRCUIT	(X) \$P	TELEPHONE OUTLET, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	MOISTURE OR EXPLOSION PROOF SEAL	(X) \$	DATA OUTLET, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	HOME RUN (PROVIDE DEDICATED NEUTRALS MULTI-WIRE BRANCH CIRCUITS NOT ALLOWED)	\$	SPECIAL PURPOSE OUTLET AS NOTED, + 16" AFF TO BOTTOM OF BOX (U.O.N.)
	A - PANEL DESIGNATION 1,3,5 - CIRCUIT NUMBER, 6 CONDUCTORS U.O.N.	\$	FLUSH FLOOR TELEPHONE OUTLET S - SURFACE PEDESTAL
	TRANSFORMER	\$	FLUSH FLOOR DUPLEX OUTLET S - SURFACE PEDESTAL
	WEATHERHEAD	\$	MULTI-CELL FLOOR BOX
	MAIN DISTRIBUTION PANEL	\$	J-BOX: CEILING
	SWITCH AND FUSE	\$	J-BOX: WALL
	CIRCUIT BREAKER	\$	EMERGENCY POWER OFF (MUSHROOM HEAD)
	CT'S	\$	MOTOR OUTLET AND CONNECTION
	PT'S	\$	MAGNETIC STARTER OR CONTACTOR
	GROUND	\$	DISCONNECT SWITCH
	METER	\$	DISCONNECT SWITCH NF - NON-FUSED
	ELECTRICAL PANEL	\$	FIRE-SMOKE DAMPER/SMOKE DAMPER
	TELEPHONE TERMINAL BOARD	\$	LIGHTING CONTROL STATION
	CONTACT - NORMALLY CLOSED (NC)	\$	OCCUPANCY SENSOR
	CONTACT - NORMALLY OPEN (NO)	\$	VACANCY SENSOR
	LIGHTING OUTLET: CEILING RECESSED	\$	PHOTO CELL - ELECTRIC
	LIGHTING OUTLET: CEILING SURFACE	\$	CONTACTOR
	LIGHTING OUTLET: WALL MOUNTED	\$	RELAY
	SPOT LIGHT		
	PORCELAIN KEYLESS P&S110 W/150W A21 LAMP - pc (PULL CHAIN)		
	FLUORESCENT/LED FIXTURE: SURFACE		
	FLUORESCENT/LED FIXTURE: SUSPENDED DIRECT/INDIRECT		
	FLUORESCENT/LED FIXTURE: RECESSED IN DRYWALL		
	FLUORESCENT/LED FIXTURE: RECESSED IN GRID DIRECT/INDIRECT		
	FLUORESCENT/LED FIXTURE: RECESSED IN GRID PARABOLIC (U.O.N.)		
	FLUORESCENT/LED FIXTURE: WALL MOUNTED		
	FLUORESCENT/LED STRIP		
	TRACK LIGHTING FIXTURE		
	INDICATES NIGHT LIGHT OR EMERGENCY CIRCUIT		
	EXIT SIGN: CEILING MOUNTED		
	EXIT SIGN: WALL MOUNTED		
	EMERGENCY BATTERY WITH NO LAMPS(HEADS)		
	EMERGENCY BATTERY WITH LAMPS		
	REMOTE EMERGENCY LIGHTS		
	REMOTE INDICATING LIGHT		



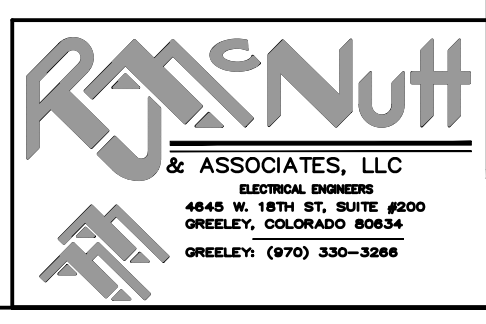
POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
TIMNATH, CO 80528



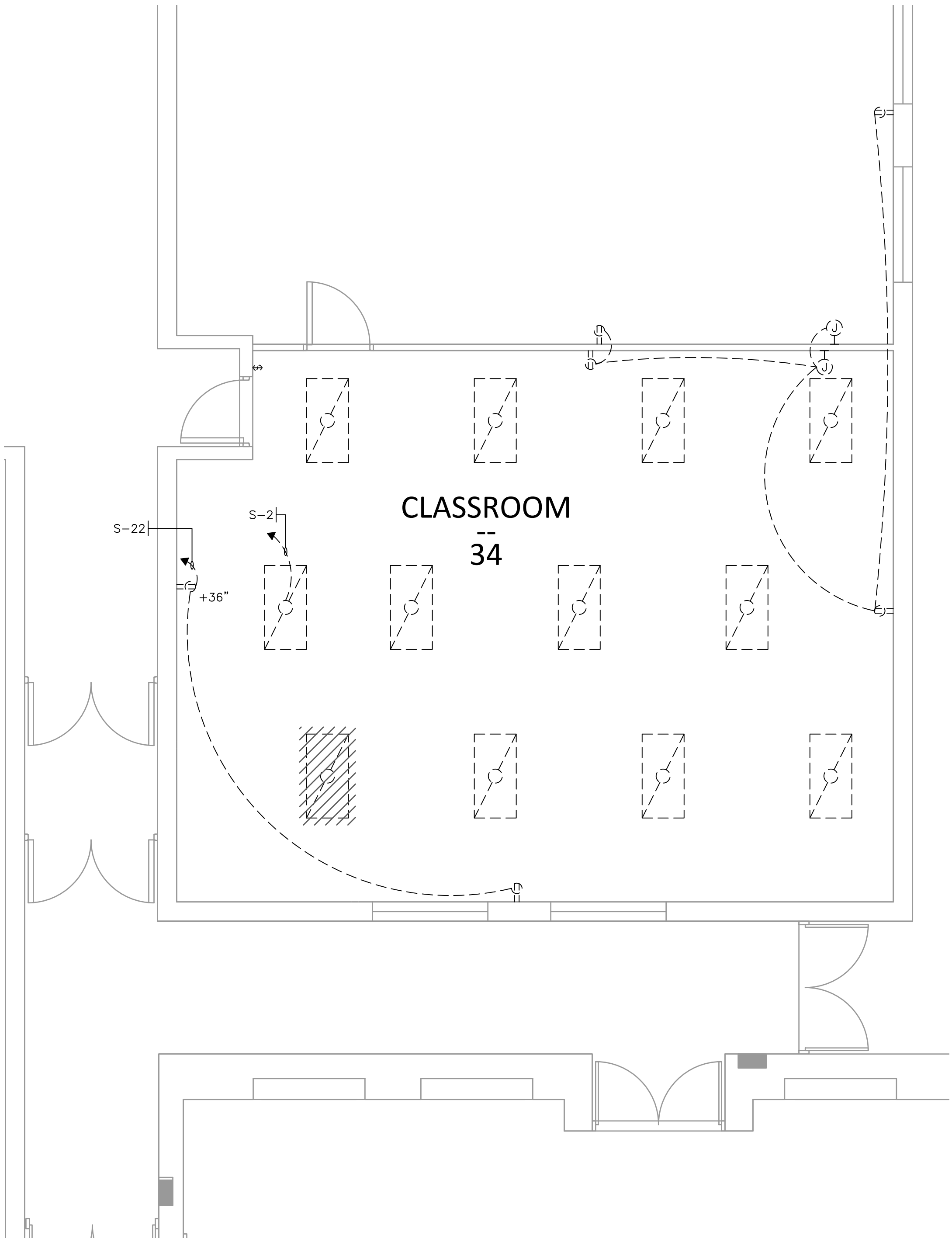
No.	Revision	Date

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GENERAL CONSTRUCTION NOTE AND LEGEND

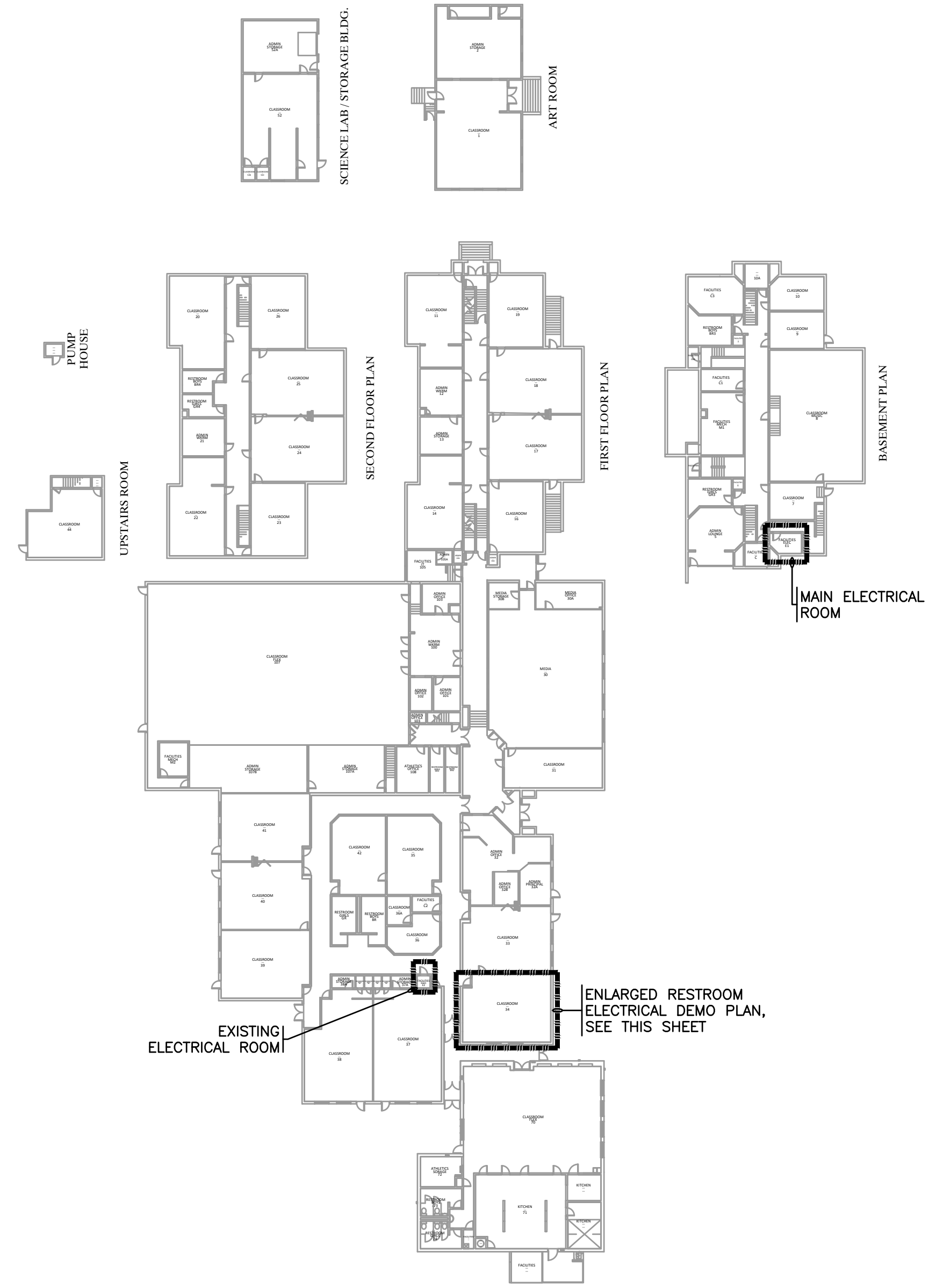
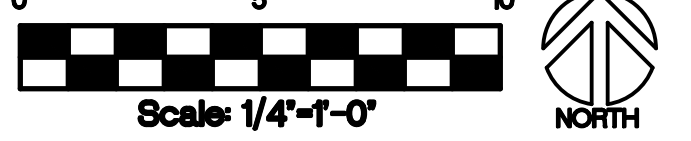
Project EC REST ROOMS	
CONSTRUCTION SET	
Date 03/02/2020	Sheet E001
Scale AS NOTED	



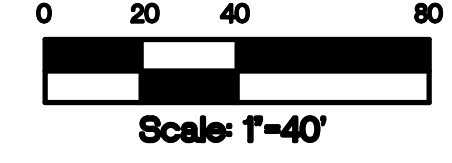
LOAD SUMMARY - LOAD REMOVED		
EXISTING LOAD REMOVED	QTY	TOTAL
LIGHTING 3-LAMP 2X4	1	100 WATTS



**ENLARGED RESTROOM ELECTRICAL DEMO PLAN**



**OVERALL PLAN**



POUDRE SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528

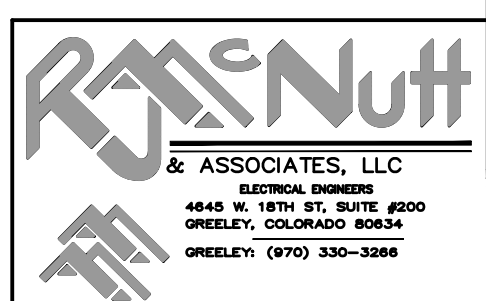


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Sheet Title:  
 ELECTRICAL  
 DEMO PLANS

Project  
 EC REST ROOMS

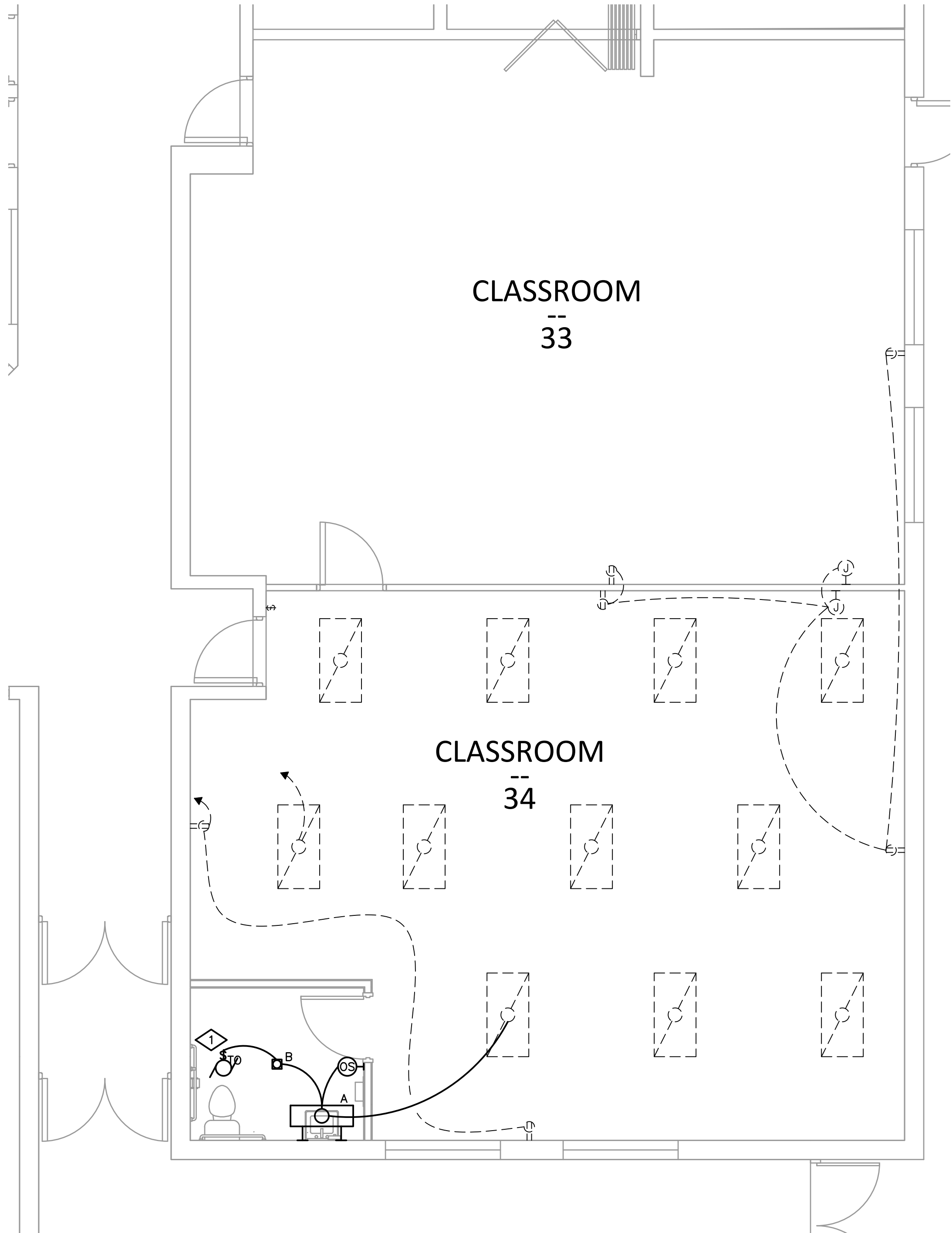
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 Sheet: ED101  
 Scale: AS NOTED



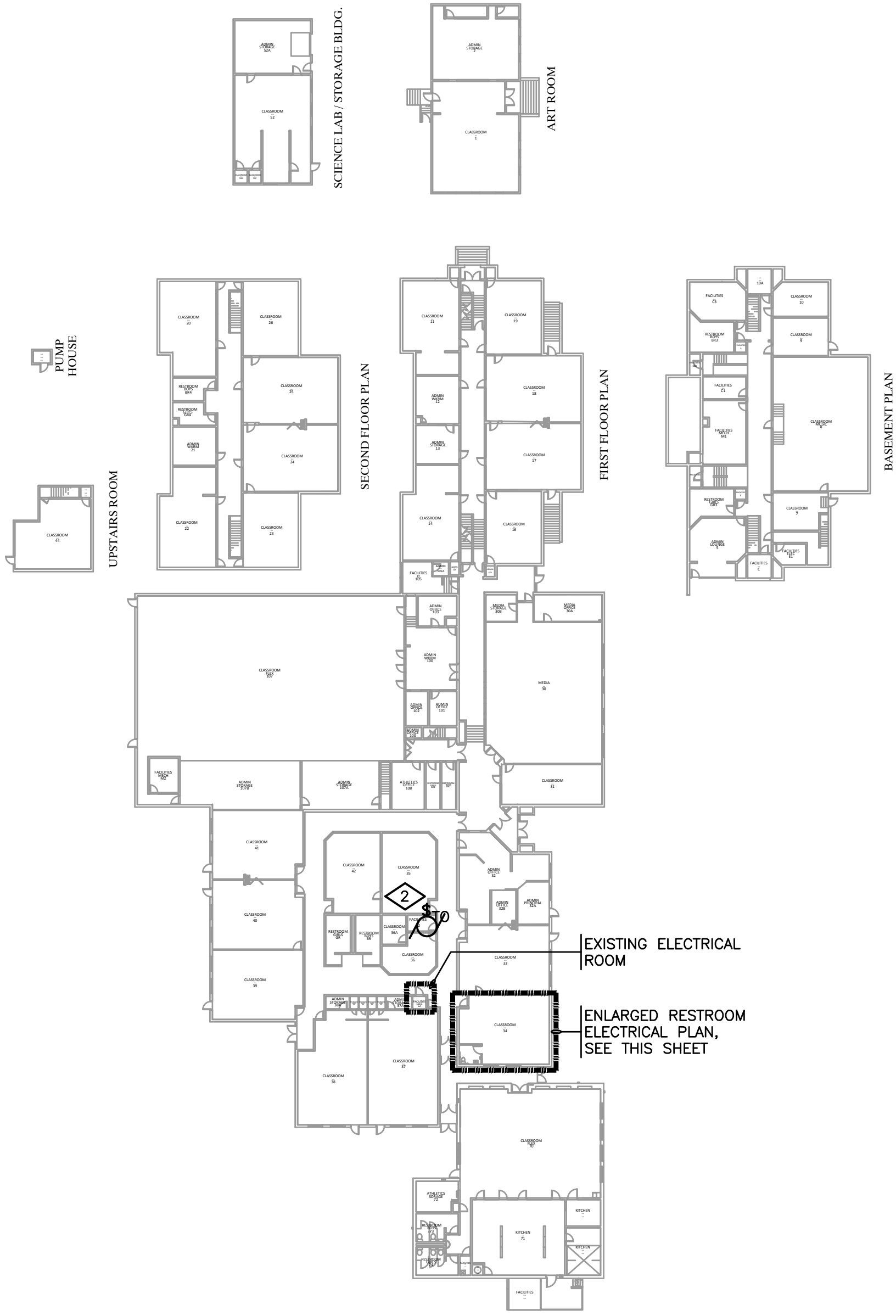
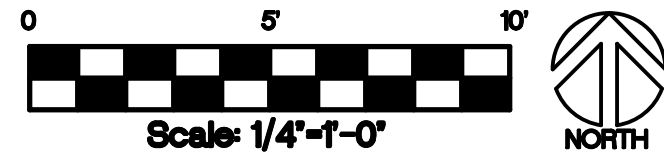
LOAD SUMMARY - LOAD ADDED	
NEW LOAD ADDED	
LIGHTING	
TYPE 'A'	29 WATTS
TYPE 'B'	14 WATTS
TOTAL	43 WATTS
EXHAUST FAN	50 WATTS
CIRCULATION PUMP	65 WATTS
TOTAL LOAD ADDED	158 WATTS

LOAD SUMMARY - Timnath ES	
MAX DEMAND PER XCEL @125% PER NEC	75.00 kW
93.75 kW	
LOAD ADDED THIS PROJECT	0.158 kW
LOAD REMOVED THIS PROJECT	0.100 kW
NEW TOTAL LOAD	93.808 kW
@ 90% POWER FACTOR	104.23 kVA
@ 208V 3PH	290 AMPS

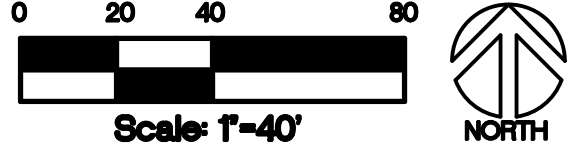
FLAG NOTES - THIS SHEET ONLY	
1	EXHAUST FAN, 1/15 HP, 120V, 50W. COORDINATE CONTROLS WITH MECHANICAL.
2	CIRCULATION PUMP, 1/35 HP, 120V, 0.54A. COORDINATE CONTROLS WITH MECHANICAL. CIRCUIT VIA EXISTING GAS WATER HEATER CIRCUIT.



ENLARGED RESTROOM ELECTRICAL PLAN



OVERALL PLAN



POUDRE SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528



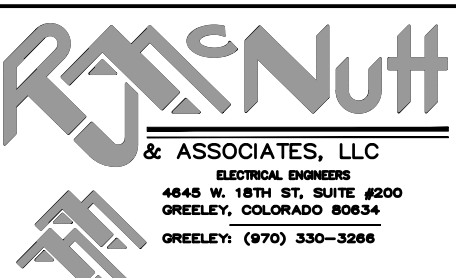
No.	Revision	Date

Sheet Title:  
 ELECTRICAL  
 PLANS

Project  
 EC REST ROOMS  
 CONSTRUCTION SET

Date  
 03/02/2020  
 Sheet  
 E101

Scale  
 AS NOTED







# PLUMBING GENERAL NOTES AND SPECIFICATIONS:

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES INCLUDING BUT NOT LIMITED TO THE 2015 INTERNATIONAL BUILDING, FIRE, MECHANICAL, PLUMBING, FUEL GAS, AND ENERGY CONSERVATION CODES (IBC, IFB, IMC, IPC, IFGC, IECC) WITH LOCAL AMENDMENTS.
- CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON PLANS, CALLED FOR IN SPECIFICATIONS, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE WORK LAYOUTS AND LOCATIONS OF OPENINGS THROUGH FLOORS, WALLS, CEILINGS AND ROOFS WITH DRAWINGS OR OTHER REQUIREMENTS. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OR CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- PLUMBING DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE REQUIRED OFFSETS, FITTINGS, ETC. DO NOT SCALE DRAWINGS. USE DIMENSIONS ONLY. ALL DIMENSIONS/LAYOUTS SHOWN ARE APPROXIMATE, FIELD VERIFY ALL WORK PRIOR TO ORDERING MATERIALS OR INSTALLING WORK
- KEEP SITE AND BUILDING ACCESSIBLE AND SAFE TO CONTRACTOR'S PERSONNEL, OWNER'S EMPLOYEES AND PUBLIC AT ALL TIMES. CONTRACTOR SHALL ENSURE SAFETY OF PERSONNEL, OWNER AND PUBLIC DURING ALL WORK AND COMPLY WITH ALL APPLICABLE REGULATIONS AND ORDINANCES PERTAINING TO SAFETY OF PERSONS AND PROPERTY.
- INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS, ANCHORING ALL COMPONENTS PLUMB, LEVEL, SQUARE, AND FIRMLY INTO PLACE IN FIRST CLASS MANNER AND WORKMANSHIP ACCORDING TO STANDARD CONSTRUCTION PRINCIPLES & AS APPROVED BY ENGINEER.
- THROUGHOUT THE WORK, CAULK AND SEAL ALL JOINTS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST THE PASSAGE OF AIR AND MOISTURE.
- PROTECT EXISTING OR ADJACENT SITE IMPROVEMENTS, EXISTING FLOOR, WALL, CEILING AND ROOF FINISHES, FURNISHINGS AND EQUIPMENT TO REMAIN DURING CONSTRUCTION. REPLACE OR REPAIR ANY DAMAGED IMPROVEMENTS, MATERIALS, FINISHES, FURNISHINGS OR EQUIPMENT TO SATISFACTION OF ARCHITECT/ENGINEER.
- REPLACE OR REPAIR ANY DAMAGED SURFACES, FILL AND PATCH HOLES, ETC., TO MATCH ADJACENT SURFACES AFTER ALL ALTERATIONS AND OTHER WORK IS COMPLETED, TO SATISFACTION OF ARCHITECT/ENGINEER.
- PRIOR TO THE DEMOLITION OF ANY EXISTING EQUIPMENT, COORDINATE WITH THE OWNER TO DETERMINE WHAT EQUIPMENT THEY MAY WANT TO KEEP. ANY EQUIPMENT NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN A LAWFUL MANNER.
- THE ENGINEER HAS ENDEAVORED TO LOCATE AND IDENTIFY THE PLUMBING EQUIPMENT AND PIPING IN THE SCOPE OF WORK INCLUDING IDENTIFYING SIZES. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ADDITIONAL MINOR MECHANICAL WORK THAT MAY NOT BE SHOWN IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- ASBESTOS MAY BE ENCOUNTERED DURING MECHANICAL WORK INCLUDING BUT NOT LIMITED TO PIPE INSULATION. IF THE CONTRACTOR DURING CONSTRUCTION ENCOUNTERS WHAT IS BELIEVED TO BE ASBESTOS CONTAINING MATERIALS, NOTIFY THE ENGINEER IMMEDIATELY.
- WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE MECHANICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES TO ENSURE THAT ALL MATERIALS ARE NON-COMBUSTIBLE AND HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 - REFER TO MECHANICAL PLANS.
- COORDINATE WITH THE G.C. TO PROVIDE ACCESS PANELS AS REQUIRED TO ACCESS VALVES, PLUMBING ACCESSORIES, ETC. REQUIRED FOR THE PROPER MAINTENANCE OF THE PLUMBING SYSTEMS.
- COORDINATE WITH G.C. TO PATCH ROOFING, ROOF DECK, AND FLASHINGS AS REQ'D WITH NEW MATERIALS AND FLASHINGS FOR ALL NEW ROOF PENETRATIONS.
- DO NOT RUN PIPES ABOVE ELECTRICAL PANELS OR EQUIPMENT. COORDINATE WITH THE E.C. FOR LOCATIONS PRIOR TO THE START OF WORK.
- SEE THE PLUMBING FIXTURE CONNECTION SCHEDULE FOR MINIMUM PIPE SIZES TO THE FIXTURES. PROVIDE AN INCREASER/REDUCER AS REQUIRED AT THE FIXTURE CONNECTION.
- DOMESTIC WATER PIPING SHALL BE TYPE 'L' COPPER ASTM B88 WITH ASME B16.18 CAST COPPER OR ASME B16.22 WROUGHT COPPER FITTINGS. JOINTS SHALL BE MADE WITH LEAD-FREE SOLDER.
- PIPING INSULATION SHALL BE INSTALLED BY A QUALIFIED INSULATION CONTRACTOR WITH A MINIMUM OF 3-YEARS DOCUMENTED EXPERIENCE. INSULATION WORK SHALL BE COMPLETE WITH ALL EDGES SEALED, PER INDUSTRY STANDARDS, AND TO THE SATISFACTION OF THE ENGINEER. SEE THE FOLLOWING PARAGRAPHS FOR INSULATION REQUIREMENTS.
  - COPPER DOMESTIC WATER PIPES SHALL BE INSULATED WITH FIBERGLASS PIPE INSULATION JACKETED WITH A REINFORCED VAPOR RETARDER FACING WITH A FACTORY LONGITUDINAL ACRYLIC ADHESIVE CLOSURE SYSTEM. OVERSIZE HANGERS FOR INSULATION SO NO PENETRATION OF THE VAPOR BARRIER OCCURS. PROVIDE INSERTS AND SADDLES AS REQUIRED TO PREVENT INSULATION DAMAGE FROM SUPPORTS. JOHNS MANVILLE MICRO-LOK OR EQUAL BY KNAUF OR OWENS CORNING.
    - DOMESTIC COLD WATER: 0.5" THICK (PIPES 1/4" AND SMALLER), 1" THICK (PIPES 1/2" AND LARGER)
    - DOMESTIC HOT WATER: 1" THICK (PIPES 1/4" AND SMALLER), 1/2" THICK (PIPES 1/2" TO 4")
    - DOMESTIC HOT WATER RECIRC: 1" THICK (ALL SIZES).
- PROVIDE AND INSTALL PIPE HANGERS IN ACCORDANCE WITH MSS SP-58. PIPE HANGERS SHALL HAVE A GALVANIZED INSULATION SADDLE (1/2" AND SMALLER) OR PIPE INSERT (2" AND LARGER) TO PROTECT INSULATION.
- WASTE & VENT PIPING (EXCEPT IN RETURN AIR PLENUM-RE: MECHANICAL):
  - SOLID CORE SCHEDULE 40 PVC, ASTM D2665. FITTINGS SHALL BE ASTM D2665. JOINTS SHALL BE ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT. CELLULAR CORE IS NOT ACCEPTABLE.
  - USE PURPLE PVC PRIMER. CLEAR PRIMER NOT ACCEPTABLE.
- WASTE AND VENT PIPING (IN RETURN AIR PLENUM-RE: MECHANICAL):
  - CAST IRON PIPE, CISPI 301, HUB-LESS, SERVICE WEIGHT. FITTINGS SHALL BE CAST IRON, CISPI 301. JOINTS SHALL BE CISPI 310, NEOPRENE GASKETS AND STAINLESS STEEL CLAMP-AND-SHIELD ASSEMBLIES.
- DOMESTIC WATER PIPING MAY NOT BE INSTALLED IN ANY EXTERIOR WALLS.
- ACCEPTABLE VALVE MANUFACTURERS MANUFACTURERS: APOLLO VALVE, CRANE VALVE, HAMMOND VALVE, MILWAUKEE VALVE COMPANY, NIBCO, STOCKHAM VALVES AND FITTINGS OR PRIOR APPROVED EQUAL.
- ALL VALVES USED ON DOMESTIC WATER SYSTEMS SHALL BE LEAD FREE AND NSF RATED.
- BALL VALVES 2" AND SMALLER: NSF 61 COMPLIANT, MSS SP110, 600 PSI WOG, TWO PIECE BRONZE BODY, CHROME PLATED BRASS BALL, FULL PORT, TEFLON SEATS, BLOW-OUT PROOF STEM, SOLDER OR THREADED ENDS, EXTENDED LEVER HANDLE AS REQUIRED FOR OPERATION WITH PIPING INSULATION.
- MANUAL BALANCING VALVES: NSF 61 COMPLIANT, 400 PSI AT 250°F, BALL TYPE VALVE WITH CALIBRATED NAMEPLATE AND MEMORY STOP, LEAD-FREE BRASS BODY WITH THREADED ENDS. DIFFERENTIAL PRESSURE READOUT PORTS WITH INTERNAL CHECK VALVES. STAINLESS STEEL BALL, TEFLON SEAT RINGS, AND EPDM O-RING, 1/4" TAPPED DRAIN/PURGE PORT.
- HORIZONTAL SWING CHECK VALVES 2" AND SMALLER: NSF 61 COMPLIANT, MSS SP 80, CLASS 125, BRONZE BODY AND CAP, Y-PATTERN, BRONZE REGRINDING DISC, SOLDER OR THREADED ENDS.
- SPRING LOADED CHECK VALVES 2" AND SMALLER: NSF 61 COMPLIANT, MSS SP 80, CLASS 125, BRONZE BODY, IN-LINE SPRING LIFT CHECK, SILENT CLOSING, BUNA-N DISC, INTEGRAL SEAT, SOLDER OR THREADED ENDS.
- PROVIDE BALL VALVES ON ALL BRANCH WATER LINES WHETHER SHOWN ON THE PLANS OR NOT.
- REFERENCE ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATIONS. EXAMINE ROUGH-IN FOR WATER AND WASTE PIPING. USE MANUFACTURER'S ROUGH-IN DIMENSIONS. ADJUST EXISTING AS REQUIRED. REFER TO THE ARCHITECTURAL PLANS FOR EXACT FIXTURE LOCATION DIMENSIONS.
- OFFSET FLANGES AND CROSS FITTINGS ARE NOT PERMITTED.
- INSTALL PLUMBING FIXTURES LEVEL AND PLUMB. SEAL AROUND FIXTURES TO WALL OR FLOOR WITH SEALANT TO MATCH FIXTURE. CLEAN ALL FIXTURES BEFORE TURNING OVER TO THE OWNER.
- PROVIDE A QUARTER TURN STOP ON THE WATER SUPPLY TO EACH PLUMBING FIXTURE. INSTALL STOPS SO THAT THEY ARE EASILY ACCESSIBLE. ALL SUPPLIES AFTER THE STOPS TO BE RIGID CHROME PLATED.
- ALL PIPE PENETRATIONS THROUGH THE FLOORS AND WALLS SHALL BE SLEEVED WITH GALVANIZED STEEL. SLEEVES SHALL BE LARGE ENOUGH TO ALLOW FOR INSULATION TO BE CONTINUOUS THROUGH THE SLEEVE. SEAL AROUND SLEEVES AND PROVIDE CHROME PLATED ESCUTCHEONS IN FINISHED SPACES.
- WHERE PIPES PENETRATE A FIRE RATED ASSEMBLY PACK THE VOID WITH BACKING MATERIAL AND SEAL WITH UL LISTED FIRE CAULK TO MEET THE FIRE RATING OF ASSEMBLY PENETRATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND TYPES OF FIRE RATED ASSEMBLIES.
- INSTALL TRAP AND VENT ON THE DRAIN OUTLET OF EACH FIXTURE TO BE DIRECTLY CONNECTED TO THE SANITARY SEWER SYSTEM. EXPOSED P-TRAPS LOCATED UNDER SINKS TO BE 17 GA. CHROME WITH CLEANOUT.
- WALL CLEANOUTS IN FINISHED AREAS SHALL BE LINE TYPE WITH ROUND STAINLESS STEEL ACCESS COVER SECURED WITH MACHINE SCREWS.
- FLOOR AND GRADE CLEANOUTS IN FINISHED AREAS SHALL BE LINE TYPE, CAST IRON BODY WITH ADJUSTABLE RISER, NO-HUB OUTLET. CAST IRON FRAME AND GRATE COVER AND INTERNAL PLUG.
- PLUMBING VENTS THROUGH THE ROOF SHALL BE 3" MINIMUM. WHERE THE CONNECTING PIPE IS SMALLER, THE PIPE SHALL TRANSITION A MINIMUM OF 12" BELOW THE ROOF STRUCTURE AND THEN EXTEND THROUGH THE ROOF AS A 3" PIPE.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND ROUTES TO AND FROM EQUIPMENT WITH STRUCTURE AND CONDITIONS. THE CONTRACTOR IS RESPONSIBLE FOR OFFSETS OF PIPING TO AVOID CONFLICTS. NOT ALL OFFSETS, FITTINGS, EXTENSIONS SHOWN THAT MAY BE REQUIRED DURING CONSTRUCTION
- LABEL ALL DOMESTIC WATER, WASTE, VENT, AND GAS PIPES WITH NAMES AND FLOW ARROWS. LABELS SHALL BE NOT MORE THAN 10'-0" APART AND SHALL BE LOCATED AT ALL ACCESS LOCATION TO CONCEALED SPACES. EXTERIOR GAS PIPING TO HAVE STENCIL PAINT LABELS AND FLOW ARROWS.
- TEST ALL WATER, WASTE, AND VENT PIPING IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE AND PER THE LOCAL AUTHORITY HAVING JURISDICTION. ALL TESTS, INSPECTIONS, AND PIPE FLUSHING TO BE WITNESSED BY THE PSD PLUMBING DEPARTMENT.
- ALL DOMESTIC HOT WATER RECIRCULATION SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SHOWN. THE BALANCING FIRM SHALL EITHER BE AABC OR NEBB CERTIFIED AND SHALL SUBMIT A BALANCE REPORT TO THE ENGINEER FOR REVIEW.
- THE PLUMBING CONTRACTOR SHALL PROVIDE PRODUCT DATA SUBMITTALS FOR ALL THE PLUMBING EQUIPMENT SCHEDULED, PLUMBING FIXTURES, PIPING, PIPE INSULATION, AND VALVES. ALL EQUIPMENT SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) FULL SIZE SET OF THE AS-BUILT PLUMBING DRAWINGS WHICH SHALL SHOW THE ACTUAL LOCATIONS OF PIPES, VALVES, FIXTURES, AND ACCESSORIES OR ANY OTHER DEVIATIONS FROM THE DESIGN DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) COPY OF ALL OPERATIONAL AND MAINTENANCE (O&M) MANUALS FOR EACH PIECE OF EQUIPMENT. THE MANUAL SHALL INCLUDE: THE CONTRACTOR'S CONTACT INFORMATION, THE MANUFACTURER'S PUBLISHED O&M INSTRUCTIONS, THE APPROVED SUBMITTAL DRAWINGS, AND THE FINAL APPROVED TEST AND BALANCE REPORT. COMBINE ALL THE MANUALS IN A 3-RING BINDER INDEXED FOR EACH PIECE OF EQUIPMENT. ALSO PROVIDE THE OWNER A CD WITH THE ENTIRE O&M MANUAL IN PDF FORMAT.
- THE CONTRACTOR SHALL PROVIDE OWNER TRAINING ON THE OPERATION AND MAINTENANCE OF THE PLUMBING EQUIPMENT.

## SHEET INDEX:

P001	PLUMBING NOTES & LEGEND
P101	PLUMBING PLANS
P301	PLUMBING SCHEDULES & DETAILS

## PLUMBING LEGEND

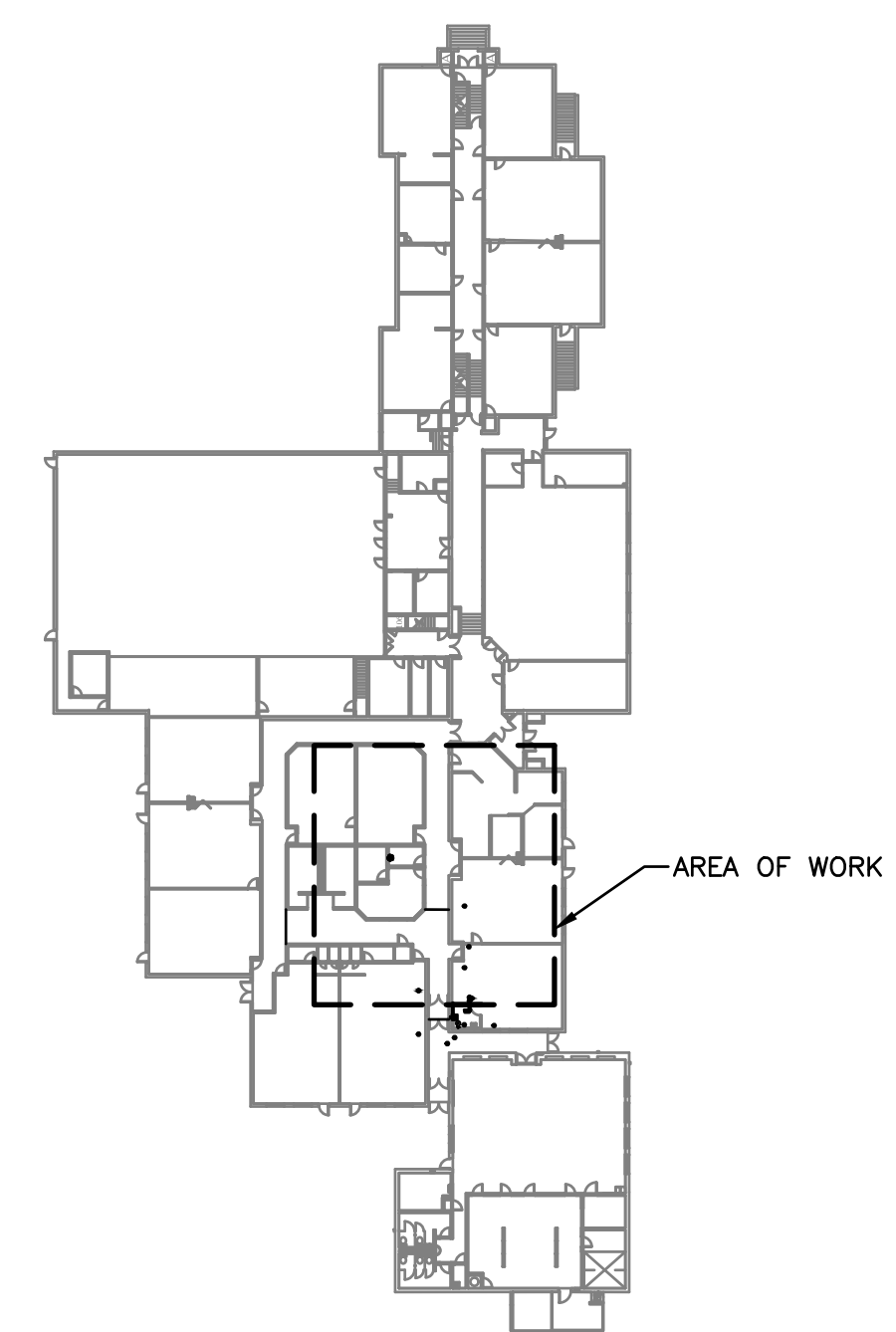
	EXISTING PIPE
	PIPE DEMOLITION
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER
	WASTE PIPE (DASHED BELOW GROUND)
	WASTE PIPE (SOLID ABOVE GROUND)
	VENT PIPE
	BALL VALVE, PRESSURE REDUCING VALVE
	CONTROL VALVE, CHECK VALVE
	UNION OR FLANGE, REDUCER/INCREASER
	TEE ELBOW UP, PIPE ELBOW DOWN
	TEE UP, TEE DOWN
	POINT OF CONNECTION
	LIMIT OF DEMOLITION

## ABBREVIATIONS

AAV	AIR ADMITTANCE VALVE
AFF	ABOVE FINISHED FLOOR
BLW	BELOW
CLG	CEILING
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
DHWC	DOMESTIC HOT WATER CIRCULATION
DWH	DOMESTIC WATER HEATER
DN	DOWN
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
FCO	FLOOR CLEANOUT
FDC	FIRE DEPARTMENT CONNECTION
FD	FLOOR DRAIN
FS	FLOOR SINK
FSS	FIRE SPRINKLER CONTRACTOR
GCO	GRADE CLEANOUT
IFGC	INTERNATIONAL FUEL GAS CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
LAV	LAVATORY
(N)	NEW
NC	NORMALLY CLOSED
POC	POINT OF CONNECTION
(REL)	RELOCATED
SL	SEA LEVEL
TYP	TYPICAL
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET

## BID ALTERNATE NOTES:

- BASE BID:** DOMESTIC HOT WATER RECIRCULATION PUMP TO BE CONTROLLED BY PUMP MANUFACTURER PROVIDED 7-DAY PROGRAMMABLE TIME CLOCK AND AQUASTAT TO MEET THE SEQUENCE OF OPERATION, SHEET P301.
- BID ALTERNATE #3:**
  - DOMESTIC HOT WATER RECIRCULATION PUMP TO BE CONTROLLED BY THE BUILDING DDC SYSTEM IN LIEU OF THE STAND-ALONE TIME CLOCK AND AQUASTAT.
  - EXISTING BUILDING DDC SYSTEM IS A SPYDER. APPROVED VENDOR IS BUILDING TECHNOLOGY SYSTEMS (BTS).



**KEY PLAN**  
SCALE: NONE



POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
TIMNATH, CO 80528



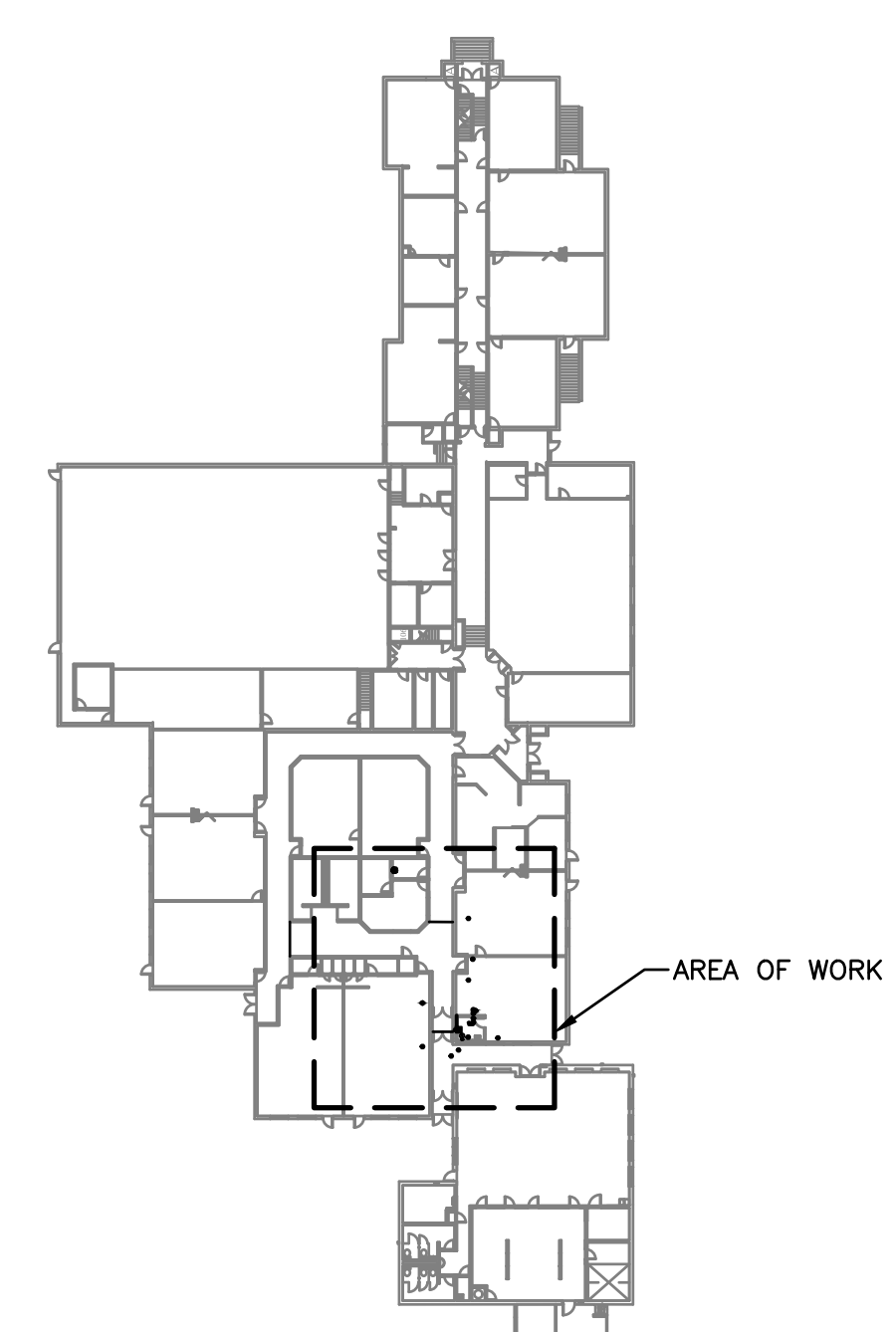
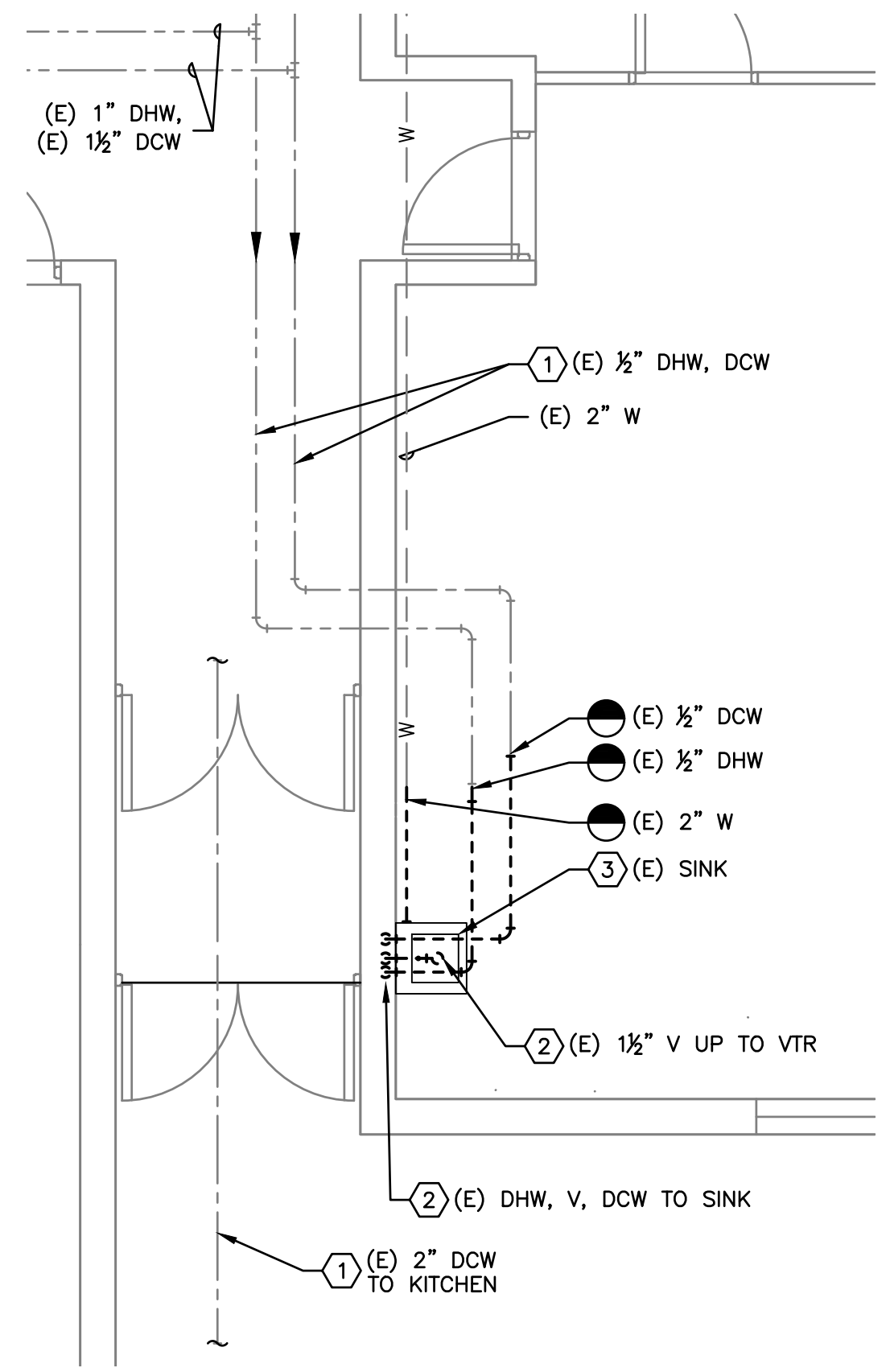
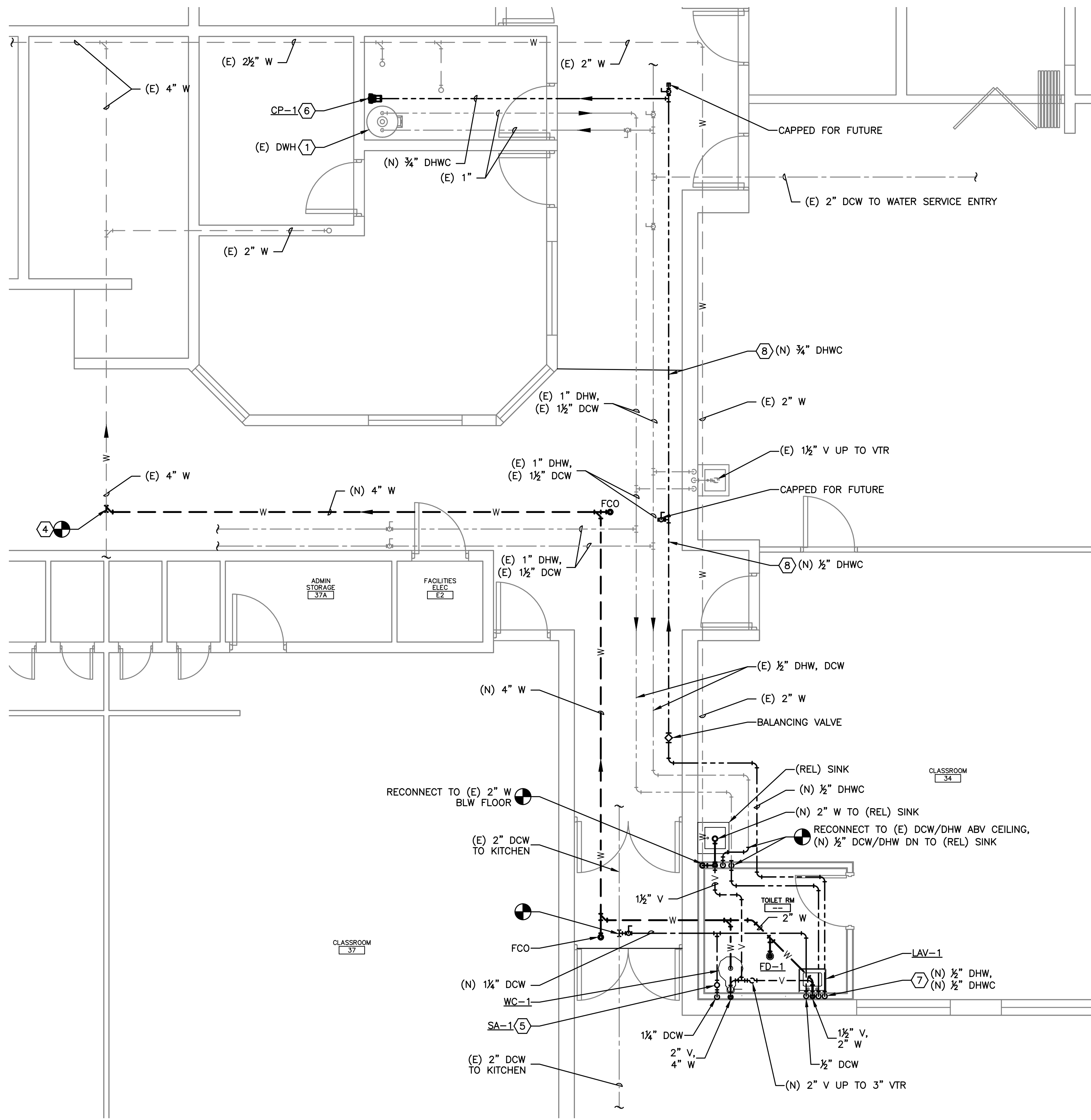
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Sheet Title:  
**PLUMBING  
NOTES,  
LEGEND, &  
SCHEDULES**

Project <b>EC REST ROOMS</b>	
CONSTRUCTION SET	
Date 5/2/2020	Sheet P001
Scale	

### # FLAG NOTES:

- EXISTING PLUMBING WORK TO REMAIN AS IS.
- EXISTING PLUMBING WORK TO BE REMOVED. CAP REMAINING AS REQUIRED. COORDINATE W/ G.C. TO PATCH AND/OR REPAIR FLOORS, WALLS, CEILINGS, AND ROOF AS REQUIRED.
- EXISTING CLASSROOM SINK TO BE CAREFULLY REMOVED AND STORED FOR REINSTALLATION. REFER TO REMODEL PLAN FOR NEW LOCATION.
- CONNECT TO EXISTING 4" W BELOW THE FLOOR IN THIS AREA. CONTRACTOR TO FIELD VERIFY LOCATION AND INVERT ELEVATION PRIOR TO THE START OF WORK. COORDINATE W/ G.C. FOR FLOOR CUTTING AND PATCHING.
- INSTALL SHOCK ABSORBER WITH SHUTOFF VALVE FOR FUTURE MAINTENANCE. INSTALL IN PLUMBING WALL, SHOWN OFFSET FOR CLARITY. COORDINATE W/ THE G.C. TO PROVIDE A PAINTED ACCESS PANEL IN THE WALL ABOVE THE TILE, RE: ARCHITECTURAL. COLOR BY ARCHITECT.
- NEW DOMESTIC HOT WATER CIRCULATOR PUMP. SEE DOMESTIC WATER HEATER DETAIL, SHEET P301.
- EXTEND DHWC PIPE DOWN TO CONNECT TO DHW PIPE WITHIN 24" OF THE LAVATORY FIXTURE CONNECTION PER THE 2018 IECC.
- ROUTE NEW DHWC PIPE BACK TO EXISTING DOMESTIC WATER HEATER.



**PLUMBING DEMOLITION PLAN**  
SCALE: 1/4" = 1'-0"  
4' 8'

**PLUMBING REMODEL PLAN**  
SCALE: 1/4" = 1'-0"  
4' 8'

**KEY PLAN**  
SCALE: NONE



POUDRE SCHOOL DISTRICT  
TIMNATH ELEMENTARY SCHOOL  
3909 MAIN STREET  
TIMNATH, CO 80528



No.	Revision	Date

Sheet Title:  
**PLUMBING PLAN**

Project:  
**EC REST ROOMS**  
CONSTRUCTION SET  
Date: 5/2/2020  
Sheet: P101  
Scale:

## PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE INFORMATION			FAUCET OR FLUSH VALVE INFORMATION			PIPE RUNOUT SIZES				REMARKS
	MAKE	MODEL	DESCRIPTION	MAKE	MODEL	DESCRIPTION	DCW	DHW	W	V	
FD-1	ZURN	Z415B	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, REVERSIBLE CLAMPING COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, ADJUSTABLE 5" ROUND HEEL PROOF NICKEL BRONZE STRAINER, AND NO-HUB OUTLET.	--	--	--	--	--	2"	1½"	4
LAV-1	AMERICAN STANDARD	LUCERNE #0355.012	WALL HUNG LAVATORY SINK, WHITE VITREOUS CHINA WITH SELF-DRAINING DECK AREA, 5" BACKSPASH, AND FRONT OVERFLOW. 4" CENTER SET FAUCET HOLES. PROVIDE WITH PERFORATED STRAINER AND CHROME-PLATED BRASS 1-1/4" OFFSET TAILPIECE. ADA COMPLIANT.	CHICAGO	802-VE2805ABCP	HEAVY DUTY CAST BRASS DECK FAUCET WITH 4" CENTERS, CHROME FINISH, TWO QUARTER-TURN LEVER HANDLES, AND 0.5 GPM NON-AERATING SPRAY OUTLET. ADA COMPLIANT.	½"	½"	2"	1½"	1-3
SA-1	ZURN	SHOKTROL Z1700-200	TYPE 304 STAINLESS STEEL WATER HAMMER ARRESTOR WITH STAINLESS STEEL NESTING BELLOWS AND THREADED PIPE CONNECTION. PDI SIZE B. ASSE 1010.	--	--	--	¾"	--	--	--	NONE
TMV-1	LEONARD	170A-LF	ASSE 1070 LISTED THERMOSTATIC MIXING VALVE. 0.25 GPM MIN. INTEGRAL INLET FILTER WASHERS AND CHECK VALVES. LEAD FREE. PROVIDE WITH COLD WATER BYPASS AND MOUNTING BRACKET. SET OUTLET TEMP. TO 110° F.	--	--	--	½"	½"	--	--	NONE
WC-1	AMERICAN STANDARD	MADERA #3043.001	FLOOR MOUNTED FLUSHOMETER WATER CLOSET W/ ELONGATED BOWL. 1½" TOP SPUD. WHITE VITREOUS CHINA. 16½" BOWL HEIGHT. 1.28 GPF. PROVIDE WITH OPEN FRONT SOLID PLASTIC SEAT.	SLOAN	ROYAL 111-1.28	EXPOSED MANUAL FLUSHOMETER VALVE FOR TOP SPUD WATER CLOSET. POLISHED CHROME FINISH. 1.28 GPF. ADA COMPLIANT. LOCATE HANDLE TO THE OPEN SIDE OF THE ROOM.	1½"	--	4"	2"	NONE

**NOTES:**

1.) PROVIDE WITH UNDER SINK PIPE INSULATION, TRUEBRO LAV GUARD 2. 2.) PROVIDE WITH THERMOSTATIC MIXING VALVE TMV-1. 3.) PROVIDE WITH FLOOR MOUNTED CONCEALED ARM CARRIER 4.) PROVIDE WITH ASSE 1072 TRAP SEAL PROTECTION DEVICE

**ACCEPTABLE MANUFACTURERS:**

LAVATORY & WATER CLOSET – KOHLER OR AMERICAN STANDARD, FLOOR DRAIN & WATER HAMMER ARRESTOR – JOSAM, JR SMITH, WATTS, OR ZURN, THERMOSTATIC MIXING VALVE – LEONARD, WATTS, OR ZURN

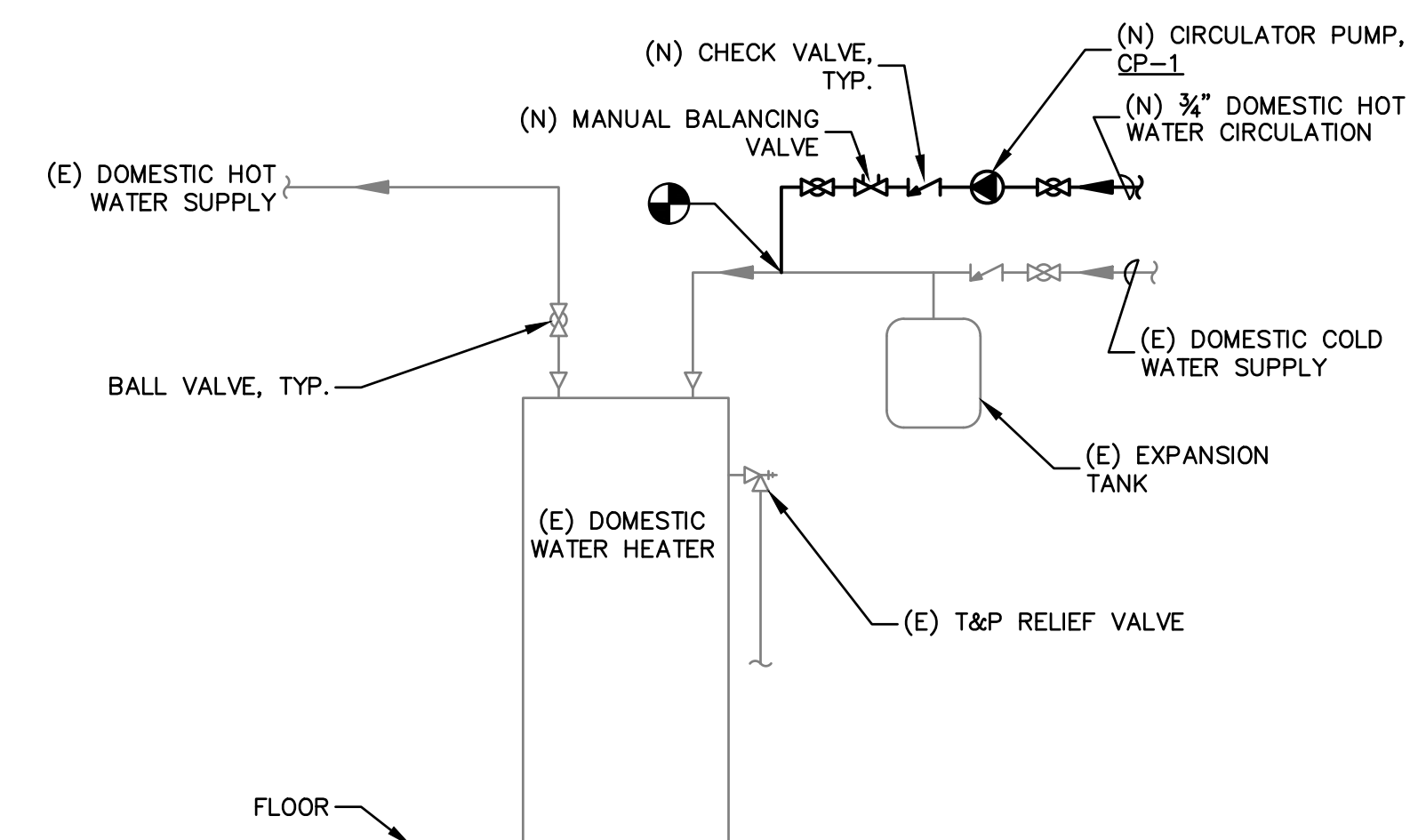
## DOMESTIC HOT WATER CIRCULATION PUMP SCHEDULE

TAG	MAKE & MODEL	FLOW (GPM)	HEAD (FT)	TYPE	VOLTAGE	AMPS	HP	BODY	IMPELLER	CONN.	REMARKS
CP-1	TACO #005-SF	4	7	WET ROTOR	115/60/1	0.54	1/35	STAINLESS STEEL	NON-METALLIC	¾"	1-4

1.) UL LISTED 2.) TACO #563-2 AQUASTAT KIT (BASE BID ONLY) 3.) TACO #265-3 7-DAY PROGRAMMABLE DIGITAL TIMER (BASE BID ONLY) 4.) OR EQUAL BY GRUNDFOS

### DOMESTIC HOT WATER CIRCULATION PUMP SEQUENCE OF OPERATION

- 1.) OCCUPIED MODE:
  - A. WHEN THE DIGITAL TIMER IS IN OCCUPIED MODE THE CIRCULATOR PUMP SHALL BE ENABLED.
  - B. IF THE AQUASTAT DETECTS A TEMPERATURE BELOW 95°F, THEN THE PUMP SHALL BE ON.
  - C. IF THE AQUASTAT DETECTS A TEMPERATURE GREATER THAN OR EQUAL TO 115° F, THEN THE PUMP SHALL BE OFF.
- 2.) UNOCCUPIED MODE:
  - A. WHEN THE DIGITAL TIMER IS IN UNOCCUPIED MODE, THE CIRCULATOR PUMP SHALL BE OFF.



### DOMESTIC WATER HEATER DETAIL

SCALE: NONE



POWDER SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528



No.	Revision	Date

Sheet Title:  
**PLUMBING SCHEDULES & DETAILS**

Project:  
**EC REST ROOMS**  
 CONSTRUCTION SET  
 Date: 5/2/2020  
 Sheet: P301  
 Scale:

# MECHANICAL GENERAL NOTES AND SPECIFICATIONS:

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL AND STATE CODES INCLUDING BUT NOT LIMITED TO THE 2015 INTERNATIONAL BUILDING, FIRE, MECHANICAL, PLUMBING, FUEL GAS, AND ENERGY CONSERVATION CODES (IBC, IFB, IMC, IPC, IFGC, IECC) WITH LOCAL AMENDMENTS.
- CONTRACTOR AND SUB-CONTRACTORS SHALL PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT TO COMPLETE ALL WORK SHOWN ON PLANS, CALLED FOR IN SPECIFICATIONS, OR REASONABLY IMPLIED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE DRAWINGS WITH ACTUAL FIELD CONDITIONS. COORDINATE WORK LAYOUTS AND LOCATIONS OF OPENINGS THROUGH FLOORS, WALLS, CEILING AND ROOFS WITH DRAWINGS OR OTHER REQUIREMENTS. VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO FABRICATION OR CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- MECHANICAL DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY INDICATE EVERY REQUIRED OFFSET, FITTING, ETC. DO NOT SCALE DRAWINGS, USE DIMENSIONS ONLY. ALL DIMENSIONS/LAYOUTS SHOWN ARE APPROXIMATE, FIELD VERIFY ALL WORK PRIOR TO ORDERING MATERIALS OR INSTALLING WORK.
- KEEP SITE AND BUILDING ACCESSIBLE AND SAFE TO CONTRACTOR'S PERSONNEL, OWNER'S EMPLOYEES AND PUBLIC AT ALL TIMES. CONTRACTOR SHALL ENSURE SAFETY OF PERSONNEL, OWNER AND PUBLIC DURING ALL WORK AND COMPLY WITH ALL APPLICABLE REGULATIONS AND ORDINANCES PERTAINING TO SAFETY OF PERSONS AND PROPERTY.
- INSTALL ALL WORK IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. ANCHORING ALL COMPONENTS PLUMB, LEVEL, SQUARE, AND FIRMLY INTO PLACE IN FIRST CLASS MANNER AND WORKMANSHIP ACCORDING TO STANDARD CONSTRUCTION PRINCIPLES & AS APPROVED BY ENGINEER.
- THROUGHOUT THE WORK, CAULK AND SEAL ALL JOINTS AS REQUIRED TO PROVIDE A POSITIVE BARRIER AGAINST THE PASSAGE OF AIR AND MOISTURE.
- PROTECT EXISTING OR ADJACENT SITE IMPROVEMENTS, EXISTING FLOOR, WALL, CEILING AND ROOF FINISHES, FURNISHINGS AND EQUIPMENT TO REMAIN DURING CONSTRUCTION. REPLACE OR REPAIR ANY DAMAGED IMPROVEMENTS, MATERIALS, FINISHES, FURNISHINGS OR EQUIPMENT TO SATISFACTION OF ARCHITECT/ENGINEER. [Edit as required per project. Typically only for remodels or additions]
- REPLACE OR REPAIR ANY DAMAGED SURFACES, FILL AND PATCH HOLES, ETC., TO MATCH ADJACENT SURFACES AFTER ALL ALTERATIONS AND OTHER WORK IS COMPLETED, TO SATISFACTION OF ARCHITECT/ENGINEER.
- PRIOR TO THE DEMOLITION OF ANY EXISTING EQUIPMENT, COORDINATE WITH THE OWNER TO DETERMINE WHAT EQUIPMENT THEY MAY WANT TO KEEP. ANY EQUIPMENT NOT WANTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF IN A LAWFUL MANNER.
- CONTRACTOR MUST COORDINATE THE WORK SO AS NOT TO EXTENSIVELY DISRUPT OWNERS OCCUPANCY OF ADJACENT AREAS AS APPROVED BY OWNER.
- THE ENGINEER HAS ENDEAVORED TO LOCATE AND IDENTIFY THE MECHANICAL EQUIPMENT AND PIPING IN THE SCOPE OF WORK INCLUDING IDENTIFYING SIZES. HOWEVER, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO BID. THE CONTRACTOR SHALL INCLUDE IN THEIR BID ADDITIONAL MINOR MECHANICAL WORK THAT MAY NOT BE SHOWN IN ORDER TO PROVIDE A COMPLETE AND WORKING SYSTEM.
- ASBESTOS MAY BE ENCOUNTERED DURING MECHANICAL WORK INCLUDING BUT NOT LIMITED TO PIPE INSULATION. IF THE CONTRACTOR DURING CONSTRUCTION ENCOUNTERS WHAT IS BELIEVED TO BE ASBESTOS CONTAINING MATERIALS, NOTIFY THE ENGINEER IMMEDIATELY.
- WHERE THE CEILING SPACE IS TO BE USED AS A RETURN AIR PLENUM, THE MECHANICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES TO ENSURE THAT ALL MATERIALS ARE NON-COMBUSTIBLE AND HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50.
- COORDINATE WITH THE G.C. TO PROVIDE ACCESS PANELS AS REQUIRED TO ACCESS VALVES, DAMPERS, CONTROL DEVICES, ETC. REQUIRED FOR THE PROPER MAINTENANCE OF THE MECHANICAL SYSTEMS.
- COORDINATE WITH G.C. TO PATCH ROOFING, ROOF DECK, AND FLASHINGS AS REQ'D WITH NEW MATERIALS AND FLASHINGS FOR ALL NEW ROOF PENETRATIONS.
- PATCH OPENINGS IN DUCTS WHICH ARE TO REMAIN ACTIVE AND HAVE HAD SECTION REMOVED. ALSO REPAIR DUCT INSULATION SO THAT IT IS CONTINUOUS.
- DO NOT RUN DUCTWORK ABOVE ELECTRICAL PANELS OR EQUIPMENT. COORDINATE WITH THE E.C. FOR LOCATIONS PRIOR TO THE START OF WORK.
- THERMOSTATS, TEMPERATURE SENSORS, SWITCHES, OR OTHER CONTROL DEVICES SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR UNLESS NOTED OTHERWISE.
- PROVIDE PLASTIC LAMINATED EQUIPMENT LABELS FOR THE NEW EQUIPMENT. LABEL ALL THE THERMOSTATS, SWITCHES, MOTOR STARTERS, ETC. INDICATING WHICH SYSTEM THEY CONTROL.
- ALL DUCTWORK SHALL BE 24 GAUGE GALVANIZED SHEET METAL MINIMUM. WORK SHALL BE IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS, LATEST EDITION. ALL DUCTWORK SHALL BE 2 IN WG PRESSURE CLASS MINIMUM.
- ALL DUCTWORK JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, SHALL BE SEALED WITH WELDS, GASKETS, OR MASTIC ADHESIVE. MASTICS SHALL BE LISTED IN ACCORDANCE WITH UL 181A.
- FLEXIBLE DUCTWORK SHALL BE INSULATED AND SHALL BE TESTED IN ACCORDANCE WITH UL 181 LISTED. FLEXIBLE DUCTWORK SHALL NOT EXCEED 6'-0" IN LENGTH. PROVIDE WRAPPED RIGID ROUND DUCTWORK FOR TAKEOFFS IN EXCESS OF 6'-0".
- DUCTWORK DIMENSIONS LISTED ON THE DRAWINGS ARE CLEAR, INSIDE DIMENSIONS. WHERE DUCT LINER IS SPECIFIED, INCREASE THE OUTSIDE SHEET METAL DIMENSIONS TO PROVIDE THE CLEAR INSIDE DIMENSIONS SPECIFIED.
- ALL BRANCH DUCT TAKEOFFS SHALL BE 45° HIGH-EFF. TYPE AND SHALL HAVE A HEAVY DUTY MANUAL BALANCING DAMPER WITH MINIMUM 1/4" ROD AND LOCKING INDICATING QUADRANT. ACCEPTABLE MANUFACTURERS INCLUDE GREENHECK, POTTORFF, AND RUSKIN. LIGHT-DUTY DAMPERS THAT ARE INTEGRAL TO TAKE-OFF FITTINGS ARE NOT ACCEPTABLE.
- DUCTWORK INSULATION SHALL BE INSTALLED BY A QUALIFIED INSULATION CONTRACTOR WITH A MINIMUM OF 3-YEARS DOCUMENTED EXPERIENCE. INSULATION WORK SHALL BE COMPLETE WITH ALL EDGES SEALED, PER INDUSTRY STANDARDS, AND TO THE SATISFACTION OF THE ENGINEER.
- ALL CONCEALED ROUND SUPPLY, RETURN, OR OUTSIDE AIR DUCTS SHALL BE INSULATED WITH DUCT WRAP FIBERGLASS INSULATION WITH FSK VAPOR BARRIER FACING. JOHNS MANVILLE MICROLITE XG OR EQUAL BY KNAUF OR OWENS CORNING.
  - IN A CONDITIONED SPACE: 1.5" THICK (R-4.5)
- PROVIDE FLEXIBLE DUCT CONNECTIONS TO THE SUPPLY AND RETURN OF ALL MOTOR DRIVEN EQUIPMENT.
- PROVIDE DUCT TRANSITIONS AS REQUIRED TO CONNECT THE DUCTS TO THE EQUIPMENT CONNECTIONS.
- ELBOWS SHALL HAVE A MINIMUM RADIUS OF 1-1/2 TIMES CENTERLINE DUCT WIDTH. WHERE RECTANGULAR ELBOWS ARE USED, PROVIDE TURNING VANES.
- PROVIDE DUCT TRANSITIONS AS REQUIRED TO CONNECT THE DUCTS TO THE EQUIPMENT CONNECTIONS. INCREASE DUCT SIZES GRADUALLY, NOT EXCEEDING 15° DIVERGENCE WHEREVER POSSIBLE; MAXIMUM 30° DIVERGENCE UPSTREAM OF EQUIPMENT AND 45° CONVERGENCE DOWNSTREAM.
- ALL PENETRATIONS THROUGH THE FLOORS AND WALLS SHALL BE SLEEVED WITH GALVANIZED STEEL. SLEEVES SHALL BE LARGE ENOUGH TO ALLOW FOR INSULATION TO BE CONTINUOUS THROUGH THE SLEEVE. APPLY SEALANT TO BOTH SIDES OF PENETRATION TO COMPLETELY FILL ANNULAR SPACE.
- WHERE DUCTS PENETRATE A FIRE RATED ASSEMBLY PACK THE VOID WITH BACKING MATERIAL AND SEAL WITH UL LISTED FIRE CAULK TO MEET THE FIRE RATING OF ASSEMBLY PENETRATED. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS AND TYPES OF FIRE RATED ASSEMBLIES.
- ALL AIR SYSTEMS SHALL BE BALANCED TO THE QUANTITIES SHOWN. THE BALANCING FIRM SHALL EITHER BE AABC OR NEBB CERTIFIED AND SHALL SUBMIT A BALANCE REPORT TO THE ENGINEER FOR REVIEW.
- THE MECHANICAL CONTRACTOR SHALL PROVIDE PRODUCT DATA FOR ALL THE MECHANICAL EQUIPMENT SCHEDULED, BALANCING DAMPERS, CONTROLS, DAMPERS, AND DUCT INSULATION. SUBMITTALS SHALL BE IN ELECTRONIC PDF FORMAT AND SENT VIA EMAIL TO THE ENGINEER. IF THE CONTRACTOR WANTS TO USE A MANUFACTURER NOT LISTED, THEY SHALL PROVIDE DOCUMENTATION TO THE ENGINEER FOR APPROVAL. ALL EQUIPMENT SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO THE START OF WORK.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) COPY OF ALL OPERATIONAL AND MAINTENANCE (O&M) MANUALS FOR EACH PIECE OF MECHANICAL EQUIPMENT. THE MANUAL SHALL INCLUDE: THE CONTRACTOR'S CONTACT INFORMATION, THE MANUFACTURER'S PUBLISHED O&M INSTRUCTIONS, THE APPROVED SUBMITTAL DRAWINGS, AND THE FINAL APPROVED TEST & BALANCE REPORT. COMBINE ALL THE MANUALS IN A 3-RING BINDER INDEXED FOR EACH PIECE OF EQUIPMENT. ALSO PROVIDE THE OWNER A CD WITH THE ENTIRE O&M MANUAL IN PDF FORMAT.
- THE CONTRACTOR SHALL PROVIDE THE OWNER WITH (1) FULL SIZE SET OF THE AS-BUILT MECHANICAL DRAWINGS WHICH SHALL SHOW THE ACTUAL LOCATIONS OF DUCTWORK, DAMPERS, GRDS, OR ANY OTHER DEVIATIONS FROM THE DESIGN DRAWINGS.
- THE CONTRACTOR SHALL PROVIDE OWNER TRAINING ON THE OPERATION AND MAINTENANCE OF THE MECHANICAL EQUIPMENT INCLUDING CONTROLS. PROVIDE NEW FILTERS IN THE EQUIPMENT AT THE END OF THE PROJECT.

## SHEET INDEX:

M001	MECHANICAL NOTES, LEGENDS, & SCHEDULES
M101	MECHANICAL PLANS

## MECHANICAL LEGEND

	EXISTING DUCTWORK
	DUCTWORK DEMOLITION
	NEW DUCTWORK (SHADED)
	FLEX DUCTWORK
	DUCT ELBOW DN, DUCT ELBOW UP
	DUCT RISERS (SUPPLY, RETURN, EXHAUST)
	90° ELBOW W/ TURNING VANES AND 45° HIGH-EFF TAKE-OFF
	MANUAL BALANCING DAMPER
	TEMPERATURE SENSOR
	FIRE DAMPER
	POINT OF CONNECTION
	LIMIT OF DEMOLITION

## ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
BLW	BELOW
CD	CEILING DIFFUSER
CLG	CEILING
DN	DOWN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
IFGC	INTERNATIONAL FUEL GAS CODE
IMC	INTERNATIONAL MECHANICAL CODE
IPC	INTERNATIONAL PLUMBING CODE
(N)	NEW
OBDD	OPPOSED BLADE DAMPER
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
RA	RETURN AIR
(REL)	RELOCATED
RG	RETURN GRILLE
SA	SUPPLY AIR
SD	SIDEWALL DIFFUSER
TA	TRANSFER AIR
TAB	TEST & BALANCE CONTRACTOR
TSTAT	THERMOSTAT
TYP	TYPICAL
W/	WITH
W/O	WITHOUT

## EXHAUST FAN SCHEDULE

TAG	MAKE & MODEL	CFM	SP (IN WC)	DD/BD	FRPM	VOLTAGE	MOTOR POWER	WEIGHT (LBS)	SPEED CONTROL	CONTROL	REMARKS
EF-1	GREENHECK G-060-VG	100	0.200	DD	1425	115/60/1	1/15 HP	22	YES	A	ALL

1.) UL-705 LISTED 2.) EC MOTOR W/ SPEED CONTROL DIAL 3.) 18" TALL INSULATED ROOF CURB 4.) AMCA CERTIFIED GRAVITY BACKDRAFT DAMPER 5.) WEATHERPROOF DISCONNECT SWITCH 6.) BIRDSCREEN 7.) OR EQUAL BY LOREN COOK OR TWIN CITY FAN

A.) BASE BID: ON WITH LIGHTS, COORDINATE W/ E.C. FOR WIRING BID ALTERNATE #3: EXHAUST FAN TO BE CONTROLLED BY THE EXISTING BAS. SEE BID ALTERNATE SUMMARY, SHEET M001.

## GRILLES, REGISTERS, AND DIFFUSER SCHEDULE

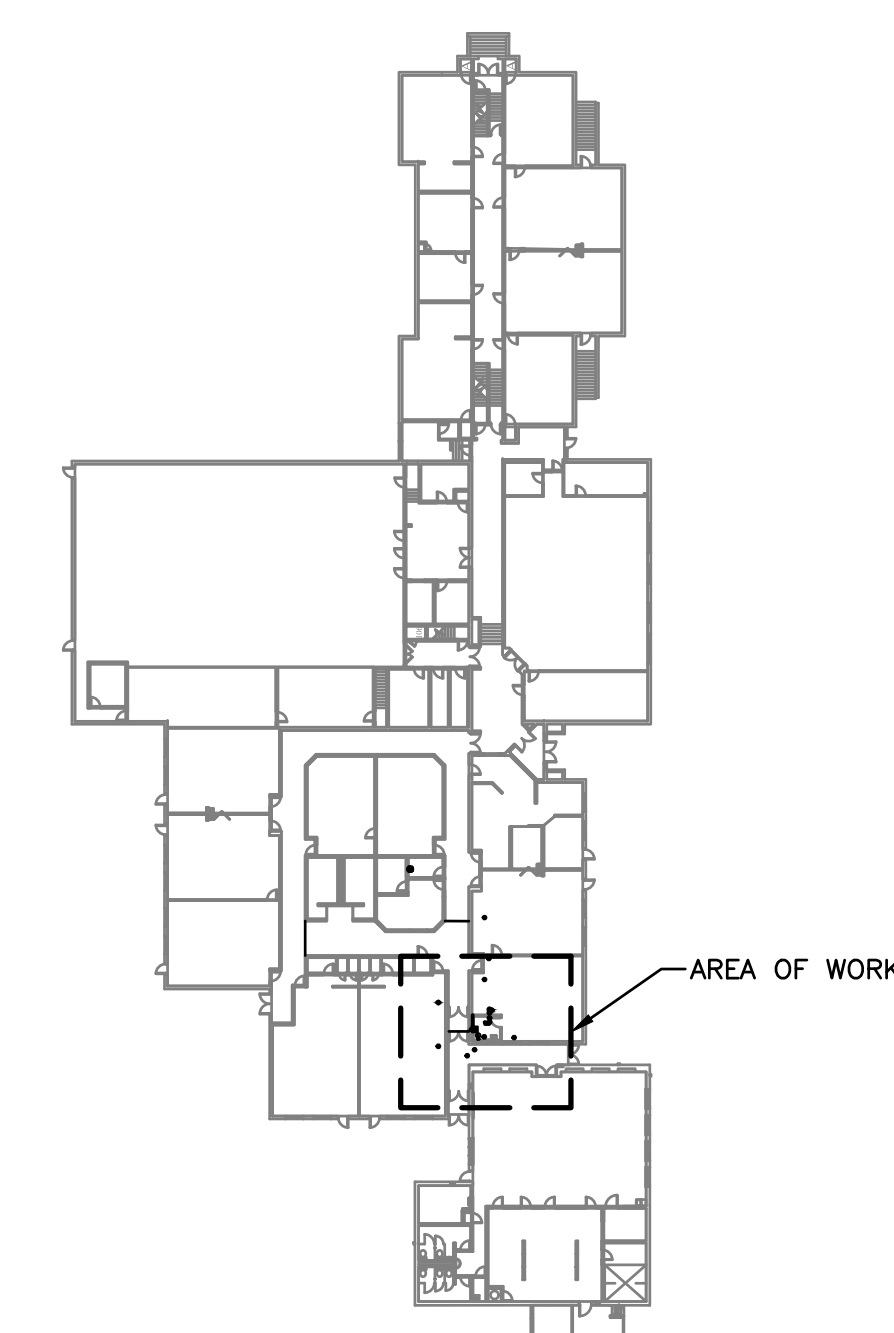
TAG	MAKE & MODEL	DUTY	DAMPER	MOUNTING	CONSTRUCTION	COLOR	DESCRIPTION
EG-1	PRICE PDDR	EXHAUST	NO	GYP. CEILING	STEEL	WHITE	12"x12" PERFORATED EXHAUST GRILLE. SEE PLANS FOR NECK SIZE.

ACCEPTABLE ALTERNATE MANUFACTURERS INCLUDE KRUEGER, NAILOR, AND TITUS

## BID ALTERNATE NOTES:

A. BASE BID: NEW RESTROOM EXHAUST FAN TO BE CONTROLLED ON WITH THE LIGHTS.

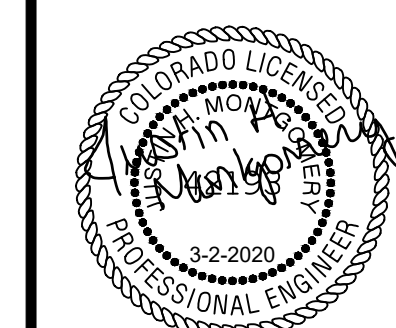
B. BID ALTERNATE #3:  
 B.1. NEW RESTROOM EXHAUST FAN TO BE CONTROLLED BY THE BUILDING DDC SYSTEM IN LIEU OF THE STAND-ALONE SWITCHES.  
 B.2. EXISTING BUILDING DDC SYSTEM IS A SPYDER. APPROVED VENDOR IS BUILDING TECHNOLOGY SYSTEMS (BTS).



**KEY PLAN**  
SCALE: NONE



POUDRE SCHOOL DISTRICT  
 TIMNATH ELEMENTARY SCHOOL  
 3909 MAIN STREET  
 TIMNATH, CO 80528



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Sheet Title:  
**MECHANICAL NOTES, LEGENDS, & SCHEDULES**

Project  
**EC REST ROOMS**

CONSTRUCTION SET

Date  
 5/2/2020

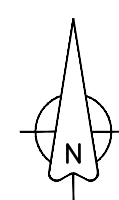
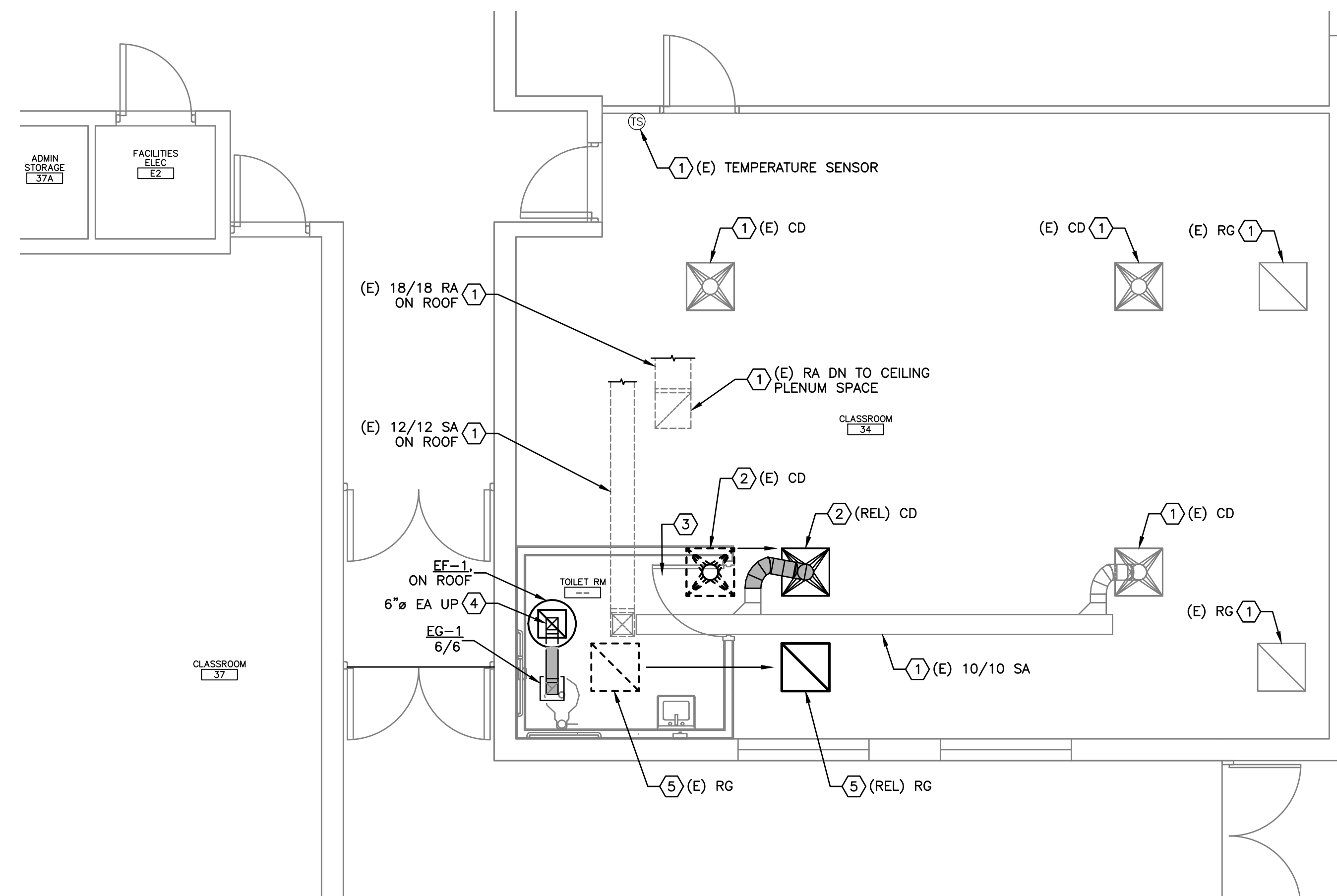
Scale  
 Sheet  
 M001

# FLAG NOTES:

1. EXISTING MECHANICAL WORK TO REMAIN AS IS.
2. EXISTING CEILING SUPPLY DIFFUSER TO BE RELOCATED AS SHOWN ON THE PLANS. PROVIDE NEW FLEX DUCT.
3. COORDINATE W/ G.C. FOR A 3/4" DOOR UNDERCUT.
4. 6/6 EA UP TO NEW ROOF MOUNTED EXHAUST FAN. COORDINATE W/ G.C. FOR NEW ROOF PENETRATION.
5. EXISTING RETURN GRILLE TO BE RELOCATED AS INDICATED ON THE PLANS.

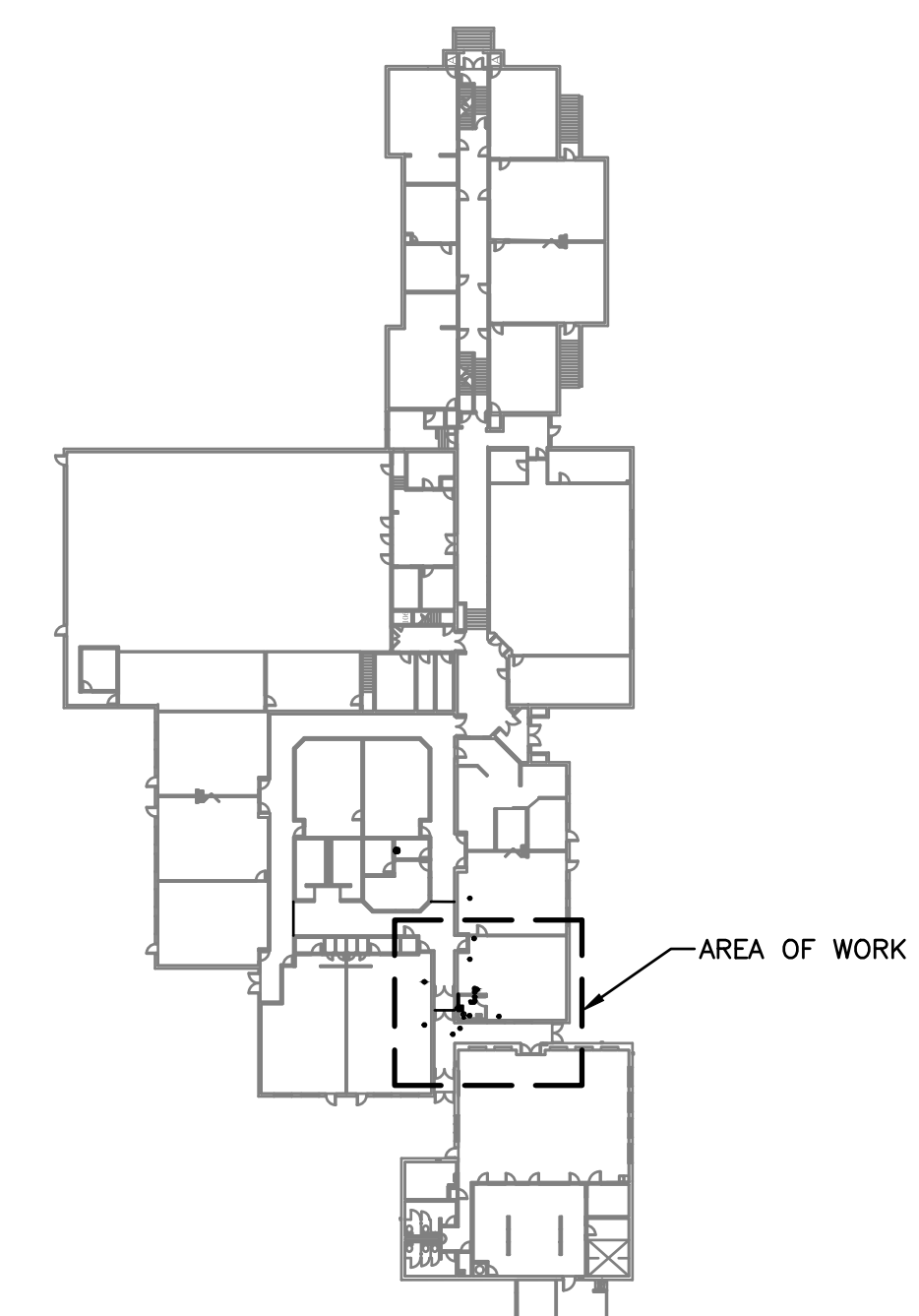
PLAN GENERAL NOTES:

- A. THE SPACE ABOVE THE CLASSROOM AND RESTROOM CEILINGS IS BEING USED AS A RETURN AIR PLENUM.



**MECHANICAL REMODEL PLAN**

SCALE: 1/4" = 1'-0" 4' 0 4' 8'



**KEY PLAN**

SCALE: NONE



POUDRE SCHOOL DISTRICT  
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3909 MAIN STREET  
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Sheet Title:  
**MECHANICAL PLAN**

Project:  
**EC REST ROOMS**

**CONSTRUCTION SET**

Date 5/2/2020	Sheet M101
Scale	