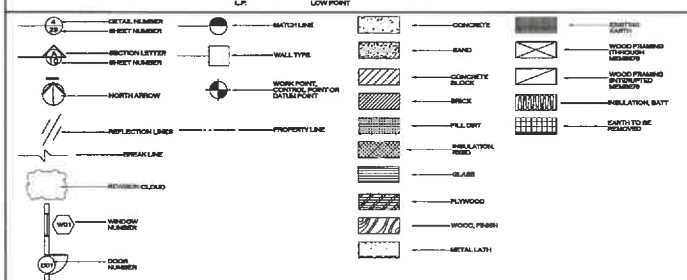
B2107-287 RND-2 -NEW COMMERCIAL BLDG- PLAN REVIEW

A COMMERCIAL DEVELOPMENT FOR :

HTH CHARITABLE FOUNDATIONS MIDDLE SCHOOL

&	AND
∠	ANGLE
CL	CENTERLINE
(E)	EXISTING
⊥	PERPENDICULAR
PL	PROPERTY LINE
#	NUMBER (OR POUNDS)
A. (OR ABV.)	ABOVE
A.B.	ANCHOR BOLT
ABV.	ABOVE
A.C.	ASPHALT CONCRETE
A/C	AIR CONDITIONING
ACOUST.	ACOUSTICAL
A.C.T.	ACOUSTIC CEILING TILE
A.D.	AREA DRAIN
ADJ.	ADJACENT (OR ADJUSTABLE)
ADJUST.	ADJUSTABLE
A.F.F.	ABOVE FINISH FLOOR
AGG.	AGGREGATE
AL. (OR ALUM.)	ALUMINUM
ALT.	ALTERNATE
ANOD.	ANODIZED
A.P.	ACCESS PANEL
APPROX.	APPROXIMATE(LY)
ARCH.	ARCHITECTURAL
ASPH.	ASPHALT
A.T.	ACOUSTIC TILE
AUT. (OR AUTO.)	AUTOMATIC (OR AUTOMATED)
AVG.	AVERAGE
B. (OR BOT.)	BOTTOM
BD.	BOARD
B.E.	BAKED ENAMEL
BEL.	BELOW
BET.	BETWEEN
BIT.	BITUMINOUS
BLDG.	BUILDING
BLK.	BLOCK
BLKG.	BLOCKING
BM.	BEAM
B.M.	BENCH MARK
BOT.	BOTTOM
BRDG.	BRIDGING
BRG.	BEARING
BSMT.	BASEMENT
B.T.U.	BRITISH THERMAL UNIT
B.U.R.	BUILT-UP ROOFING
B.W.	BOTH WAYS
CAB.	CABINET
CAP.	CAPACITY
C.B.	CATCH BASIN
CEM.	CEMENT
CER.	CERAMIC
C.I.	CAST IRON
C.J.	CONTROL JOINT (OR CLG. JOIST)
CLG.	CEILING
CLKG.	CAULKING
CLOS.	CLOSET
CLR.	CLEAR (ANCE)
C.M.U.	CONCRETE MASONRY UNIT
CNTR.	COUNTER
C.O.	CLEAN OUT (OR CONV. OUTLET)
COL.	COLUMN
COMB.	COMBINE (OR COMBINATION)
COMP.	COMPOSITION (OR COMPLETE)
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CONTR.	CONTRACTOR
CONV.	CONVENIENT
CORR.	CORRIDOR
CPT.	CARPET(ED)
C.S.	COUNTER SINK
C.T.	CERAMIC TILE
CTSK.	COUNTERSUNK
CTR.	CENTER
CU.YD.	CUBIC YARD
C.V.	CEILING VENT
C.W.	COLD WATER
C.Y.	CUBIC YARD
CYL.	CYLINDER
D.	DRAIN
DBL.	DOUBLE
DEMO.	DEMOLITION (OR DEMONSTRATION)
DEPT.	DEPARTMENT
DET.	DETAIL
D.F.	DRINKING FTN. (OR DOUGLAS FIR)
DIA.	DIAMETER
DIAG.	DIAGONAL
DIM.	DIMENSION
DISP.	DISPENSER
DIV.	DIVISION
DN.	DOWN
D.O.	DOOR OPENING
DW.	DOWN
DR.	DOOR
D.S.	DOWNSPOUT
D.S.P.	DRY STANDPIPE
D.W.	DUMB WAITER
DWG.	DRAWING
DWR.	DRAWER
E.	EAST
EA.	EACH
E.J.	EXPANSION JOINT
ELECT.	ELECTRIC (AL)
EL. (OR ELEV.)	ELEVATION (OR ELEVATOR)
ELEV.	ELEVATOR
EMER.	EMERGENCY
E.N.	EDGE NAILING
ENT.	ENTRANCE
ENCL.	ENCLOSURE
E.P.	ELECTRICAL PANEL(BOARD)
EQ.	EQUAL
EQUIP.	EQUIPMENT
EQUIV.	EQUIVALENT
E.W.	EACH WAY
E.W.C.	ELECTRIC WATER COOLER
EXH.	EXHAUST
EXIST.	EXISTING
EXP.	EXPANSION (OR EXPOSED)
EXT.	EXTERIOR
F.A.	FIRE ALARM
F.A.U.	FORCED AIR UNIT
F.B.	FLAT BAR
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.	FINISH FLOOR
F.F.F.	FROM FINISH FLOOR
F.G.	FINISH GRADE
F.H.C.	FIRE HOSE CABINET
FIN.	FINISH(ED)
F.L.	FLOW LINE
FLASH.	FLASHING
F.N.	FIELD NAILING
FLOUR.	FLUORESCENT
FLR.	FLOORING
F.O.C.	FACE OF CONCRETE
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUD
FRPF.	FIREPROOF
F.S.	FLOOR SINK (OR FULL SIZE)
F.T.	FIRETREATED
FT.	FEET
FTG.	FOOTING
FTN.	FOUNTAIN
FUR.	FURR (I)NG
FUT.	FUTURE
GA.	GAGE (GAUGE)
GAL.	GALLON
GALV.	GALVANIZED
G.B.	GRAB BAR (OR GYPSUM BOARD)
G.I.	GALVANIZED IRON
GL.	GLASS (OR GLAZING)
G.L.B.	GLUE-LAMINATED BEAM
GND.	GROUND
GR.	GRADE
G.W.B.	GYPSUM WALL BOARD
GYP.	GYPSUM
H.B.	HOSE BIB
HB.	HARDBOARD
H.C.	HOLLOW CORE
HD.	HEAD
HDR.	HEADER
HDWD.	HARDWOOD
HDWR.	HARDWARE
H.G.	HORIZONTAL GRAIN
H.M.	HOLLOW METAL
HOR. (OR HORZ.)	HORIZONTAL
H.P.	HIGH POINT
HR.	HOUR
HT.	HEIGHT
HVAC.	HEAT/VENT/AIR CONDITION
H.W.	HOT WATER
I.	IRON
I.D.	INSIDE DIAMETER
ILLUM.	ILLUMINATED
IN.	INCH(ES)
INCL.	INCLUDED (OR INCLUDING)
INST.	INSTITUTE
INSUL.	INSULATED (OR INSULATION)
INT.	INTERIOR
J. (OR JST.)	JOIST
JAN.	JANITOR
JCT.	JUNCTION
JST.	JOIST
JT.	JOINT
K.D.	KILN DRIED
KIT.	KITCHEN
K.L.	KEY LOCK
K.P.	KICK PLATE
L.	LENGTH
LAB.	LABORATORY
LAM.	LAMINATE(D)
LAV.	LAVATORY
LBS.	POUNDS
L.H.	LEFT-HAND(ED)
LKR.	LOCKER
L.P.	LOW POINT
LT.	LIGHT
LW.	LIGHTWEIGHT
LVR.	LOUVER
MACH.	MACHINE(S)
MAS.	MASONRY
MAT.	MATERIAL
MAX.	MAXIMUM
M.B.	MACHINE BOLT
M.C.	MEDICINE CABINET
MECH.	MECHANICAL
MED.	MEDIUM
MEMB.	MEMBRANE
MET.	METAL
MEZZ.	MEZZANINE
MFR.	MANUFACTURE(ER)
M.H.	MAN HOLE
MIN.	MINIMUM (OR MINUTE)
MIR.	MIRROR
MISC.	MISCELLANEOUS
MLD.	MOLDING, MOULDING
M.O.	MASONRY OPENING
M.R.	MOISTURE RESISTANT
MOP	MOP SINK
MTD.	MOUNTED
MUL.	MULLION
N.	NORTH
NAT.	NATURAL
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O/	OVER
O.A.	OVER ALL
OBS.	OBSCURE
O.C.	ON CENTER(S)
O.D.	OUTSIDE DIAMETER (OR OF.D.)
OF.D.	OVERFLOW DRAIN
OFF.	OFFICE
OPNG.	OPENING
OPP.	OPPOSITE
O.T.O.	OUT TO OUT
PART.	PARTITION
PC.	PIECE
P.H.	PANIC HARDWARE
P.L.	PLASTIC LAMINATE
PL.	PLATE (OR PLASTIC)
PLAST.	PLASTER
PLYWD.	PLYWOOD
PNT.	PAINT
PR.	PAIR
PRCST.	PRECAST
PREFAB.	PREFABRICATED
PRELIM.	PRELIMINARY
PROJ.	PROJECT (OR PROJECTION)
P.S.F.	POUNDS / SQUARE FOOT
P.S.I.	POUNDS / SQUARE INCH
PT.	POINT
P.T.D.	PAPER TOWEL DISPENSER & RECEPTACLE
PTN.	PARTITION
P.V.C.	POLYVINYL CHLORIDE
PLY.	PLYWOOD
Q.T.	QUARRY TILE
QTY.	QUANTITY
R.	RISER (OR RADIUS)
RAD.	RADIUS
R.D.	ROOF DRAIN
RDWD.	REDWOOD
RECP.	RECEPTACLE
REF.	REFRIGERATOR (OR REFERENCE)
REFR.	REFRIGERATOR
REG.	REGISTER (OR REGULAR)
REINF.	REINFORCE(D) (OR REINFORCING)
RESIL.	RESILIENT
REV.	REVISION(S) (OR REVISED)
REQ.	REQUIRE(D) (OR REQUIRES)
RFG.	ROOFING
R.H.	RIGHT-HAND(ED)
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT-OF-WAY
R.S.	ROUGH SAWN
R.T.	RESILIENT TILE
RWD.	REDWOOD
R.W.L.	RAIN WATER LEADER
S&P	SHELF AND POLE
S.	SOUTH
S.C.	SOLID CORE
S.C.D.	SEAT COVER DISPENSER
SCHED.	SCHEDULE
S.D.	STORM DRAIN (OR SOAP DISPENSER)
SEC.	SECOND (OR SECTION)
SECT.	SECTION (OR SECTIONAL)
SEL.	SELECT(ED)
S.F.	SQUARE FOOT
SH.	SHELF
SHT.	SHEET
SHTG.	SHEATHING
SIM.	SIMILAR
S.N.D.	SANITARY NAPKIN DISPENSER
S.N.R.	SANITARY NAPKIN RECEPTACLE
SPEC.	SPECIFICATION(S)
SQ.	SQUARE
S.S. (OR SSK)	SERVICE SINK
S.ST. (OR S.STL.)	STAINLESS STEEL
STA.	STATION
STAGD.	STAGGERED
STD.	STANDARD
STL.	STEEL
STOR.	STORAGE
STR. (OR STRUCT.)	STRUCTURE (OR STRUCTURAL)
SUSP. (OR SUSP'D)	SUSPEND(ED) (OR SUSPENSION)
SW.	SWITCH
SYM.	SYMMETRICAL
T&G	TONGUE AND GROOVE
T.	TREAD
T.B.	TOWEL BAR
T.C.	TOP OF CURB
TEL.	TELEPHONE
TEMP.	TEMPERED (OR TEMPERATURE)
TERR.	TERRACE (OR TERRAZZO)
THK.	THICK(NESS)
THRESH.	THRESHOLD
T.O.S.	TOP OF SURFACE
TOIL.	TOILET
T.P.	TOP OF PAVEMENT (OR PLATE)
T.P.D.	TOILET PAPER DISPENSER
T.PL.	TOP OF PLATE
TRD.	TREAD
T.S.B.	TOP OF SET BASE
T.S.	TOP OF SLAB
T.ST. (OR T.STL.)	TOP OF STEEL
T.V.	TELEVISION
T.W.	TOP OF WALL
TYP.	TYPICAL
U.B.C.	UNIFORM BUILDING CODE
UC.	UNDERCUT
UNF. (OR UNFIN.)	UNFINISHED
U.O.N.	UNLESS OTHERWISE NOTED
UR.	URINAL
V.T.	VINYL TILE
VERT.	VERTICAL
VEST.	VESTIBULE
VIT.	VITREOUS
V.G.	VERTICAL GRAIN
VOL.	VOLUME
V.S.	VENT. STACK
V.T.R.	VENT THRU ROOF
V.W.C.	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
W.	WEST (OR WASHER)
WAIN.	WAINSCOT
W.B.	WOOD BASE
W.C.	WATER CLOSET
WD.	WOOD
WDW.	WINDOW
W.G.	WIRED GLASS
W.H.	WATER HEATER
W.I.	WROUGHT IRON
W.I.C.	WALK-IN CLOSET (OR WOOD INST. CA.)
WIN.	WINDOW
WP.	WATERPROOF(ED) (ING)
W.R.	WATER RESISTANT
W.S.	WEATHER STRIPPING
WSCT.	WAINSCOT(ING)
WT.	WEIGHT
W.T.W.	WALL TO WALL
W.W.F.	WELDED WIRE FABRIC
W.W.M.	WELDED WIRE MESH
YEL.	YELLOW
YD.	YARD



BUILDING SUMMARY:

(SEE SHEET CS-1.1)

CONSULTANTS:

MEP:

BOWIE TIGLAS ENGINEERING, INC
24820 N. 16TH STREET, SUITE 170
PHOENIX, AZ. 85085
CONTACT: BOWIE TIGLAS
PHONE: 602.992.3900

SHEET INDEX:

VICINITY MAP:

1 - plan check corrections 01.18.22

HTH CHARITABLE FOUNDATIONS MIDDLE SCHOOL
3080 CENTERPOINTE EAST
PRESCOTT, AZ 86305

HEADWATERS
ARCHITECTURE P.C.
105 SOUTH CORTEZ STREET, STE 240
PRESCOTT, AZ 86303
01/19/22

A-0.1

GENERAL NOTES

1. ALL WORK IS TO CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION, AS ADOPTED BY THE INTERNATIONAL CODE COUNCIL, INC., TOGETHER WITH ALL REFERENCED STANDARDS THEREIN AND TOGETHER WITH APPENDICIES C, I, AND J AS ALL OF THE SAME MAY BE AMENDED FROM TIME TO TIME, AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.

2. ONLY APPROVED WORKING DRAWINGS, WITH THE STATEMENT "APPROVED" BY THE CITY, AND A ARCHITECT OR ENGINEER'S SIGNATURE AND SEAL STAMPED ON THE COVER SHEET, ARE TO BE USED FOR CONSTRUCTION OF THIS PROJECT. CONTRACTORS USING OTHER THAN APPROVED DRAWINGS ARE SOLELY RESPONSIBLE FOR SUCH WORK.

3. ALL DIMENSIONS ARE TO FACE OF STUD WALL OR FACE OF CONCRETE, UNLESS OTHERWISE NOTED.

4. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL TAKE PREFERENCE OVER SCALE DIMENSIONS. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD, AND IMMEDIATELY REPORT ANY DISCREPANCIES OR VARIATIONS TO THE ARCHITECT/ENGINEER.

5. CONTRACTOR IS TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.

6. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXISTENCE AND PRECISE LOCATION OF UNDERGROUND PIPING AND OTHER STRUCTURES, WHICH MAY BE AFFECTED BY CONSTRUCTION. PROMPTLY NOTIFY EACH UTILITY COMPANY, MUNICIPALITY, OR OTHER AGENCY OWNING OR OPERATING ANY AFFECTED FACILITIES OR STRUCTURES, AND REQUEST ENGINEERING INFORMATION AND MARKING OF FACILITIES IN FIELD, PRIOR TO COMMENCING ANY WORK ON THE SITE. REMOVE ALL ITEMS SPECIFIED TO BE ABANDONED, AND TAKE CARE TO PREVENT ANY DAMAGE TO, OR DISRUPTION OF, ITEMS TO REMAIN.

7. NO HAZARDOUS MATERIALS ARE TO BE STORED AND/OR USED WITHIN THIS BUILDING; WHICH EXCEED THE QUANTITIES LISTED IN THE I.R.C.

8. EARTHWORK TO BE PERFORMED ON THIS PROJECT SHALL NOT EXCEED 50 CU. YDS. WITHOUT AN APPROVED GRADING PERMIT.

9. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS, GRADES, ELEVATIONS AND DIMENSIONS BEFORE STARTING WORK. THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

10. ALL OMISSIONS AND CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND, OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENFORCEMENT OF FEDERAL AND STATE OF ARIZONA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REQUIREMENTS AND REGULATIONS.

12. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

13. MATERIAL NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.

14. SEE MECHANICAL AND ELECTRICAL PLANS FOR SIZE AND LOCATION OF HOLES IN SLABS AND MASONRY WALLS FOR MECHANICAL AND ELECTRICAL PURPOSES; ALSO VERIFY WITH MANUFACTURES RECOMMENDATIONS AND SHOP DRAWINGS.

15. DURING THE CONSTRUCTION PERIOD, CONSTRUCTION MATERIALS SHALL BE SPREAD OUT, IF PLACED ON FRAMED FLOORS OR ROOFS. THE APPLIED LOAD SHALL NOT EXCEED THE DESIGN LIVE LOADS FOR EACH PARTICULAR STRUCTURE.

16. THE ARCHITECT OR ENGINEER SHALL BE NOTIFIED OF ANY UNUSUAL OR UNFORESEEN SITUATION OR CONDITION WHICH AFFECTS THE STRUCTURAL STABILITY OR SAFETY OF THE BUILDING PRIOR TO CONTINUING WITH CONSTRUCTION.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SHORING AND BRACING REQUIRED TO PROTECT PERSONNEL AND ADJACENT PROPERTY DURING CONSTRUCTION. THE CONTRACTOR SHALL ADEQUATELY BRACE ELEMENTS OF THE STRUCTURE DURING CONSTRUCTION TO INSURE THE SAFETY THE STRUCTURE.

18. APPROVAL OF THE SHOP DRAWINGS, MEANS APPROVAL OF THE GENERAL METHOD OF FABRICATION ONLY. DIMENSIONS AND QUANTITIES MAY NOT BE CHECKED AND APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS UNLESS SPECIFICALLY SO INDICATED IN THE APPROVAL.

19. THE ARCHITECT OR ENGINEER HAS NOT BEEN RETAINED FOR ADMINISTRATION SERVICES DURING CONSTRUCTION, BUT WILL RESOLVE WORKING DRAWING CLARIFICATION ITEMS BROUGHT TO HIS ATTENTION DURING CONSTRUCTION.

20. ALL GLAZING INSTALLED IN HAZARDOUS LOCATIONS, AS DEFINED BY THE I.B.C. CHAPTER 24, SHALL BE TEMPERED GLASS.

21. THERMAL INSULATION SHALL BE INSTALLED IN ALL EXTERIOR WALLS, SOFFIT'S, AND CEILINGS, AND BETWEEN INTERIOR CONDITIONED SPACES AND ANY UNCONDITIONED AREAS, IN ACCORDANCE WITH THE INTERNATON RESIDENTIAL CODE.

ALL EXTERIOR DOORS SHALL LIMIT AIR INFILTRATION WHEN IN THE CLOSED POSITION, AS FOLLOWS:

A. PROVIDE WEATHERSTIPPING AT HEAD, SILL, AND JAMBS.

B. INSTALL ASTRAGAL AT MEETING PORTION OF DOUBLE DOORS.

C. DOORS REQUIRING VERTICAL TRACKS OR GUIDES SHALL USE A CONTINUOUS MOUNTING ANGLE, AND SHALL BE SEALED TO LIMIT AIR LEAKAGE.

22. INSTALL SEALANT AT JOINTS AROUND WINDOW AND DOOR FRAMES, BETWEEN WALLS AND FOUNDATIONS, BETWEEN WALLS AND ROOFS, BETWEEN WALL PANELS, AND AT PENETRATIONS OF UTILITIES THROUGH THE BUILDING ENVELOPE, TO LIMIT AIR INFILTRATION.

23. DAMAGE TO SITE, UTILITIES, OR NEWLY CONSTRUCTED IMPROVEMENTS NOT DESIGNATED FOR REMOVAL SHALL BE THE SOLE RESPONSIBILITY OF THE SUBCONTRACTOR INVOLVED, AND SHALL BE REPAIRED OR REPLACED AT THE SOLE EXPENSE OF THE SAME.

24. SUBCONTRACTORS TO VERIFY AND LOCATE ALL UTILITY STUB OUTS AND MAINS BEFORE START OF WORK.

25. CONTRACTOR TO CONTACT "BLUE STAKE" TWO DAYS PRIOR TO ANY CONSTRUCTION.

1 - plan check corrections 01.19.22

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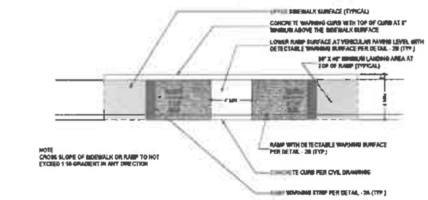
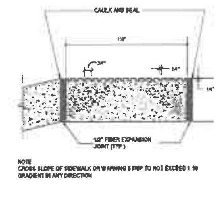
3080 CENTERPOINTE EAST
PRESCOTT, AZ 86305

HEADWATERS
ARCHITECTURE P.C.
105 SOUTH CORTEZ STREET, STE 240
PRESCOTT, AZ 86303
01/19/22

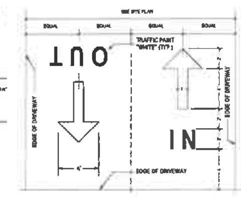
A-0.2



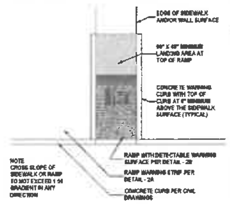
4A CURB RAMP DETAIL
SCALE: 1/4" = 1'-0"



2A RAMP WARNING STRIP
SCALE: NTS



1A PARKING DIRECTIONAL ARROWS
SCALE: 1/4" = 1'-0"



4B CURB RAMP DETAIL
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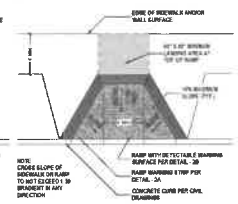
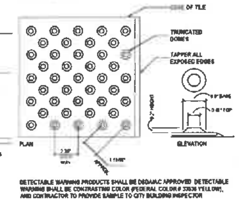
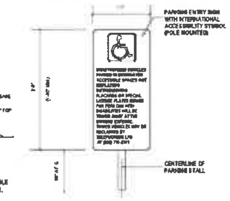


3B CURB RAMP DETAIL
SCALE: 1/4" = 1'-0"



2B TRUNCATED DOME TILE
SCALE: NTS



1B PARKING LOT ENTRY SIGN
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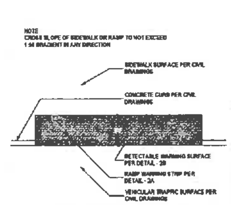

4C HAZARDOUS WARNING DETAIL
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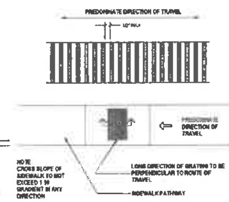

3C GRATING DETAIL
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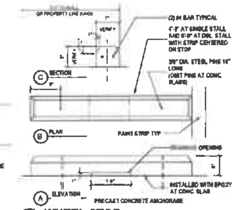

2C WHEEL STOP
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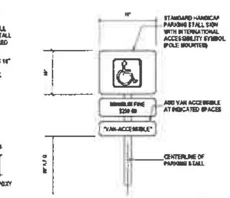

1C ACCESSIBLE PARKING SIGN
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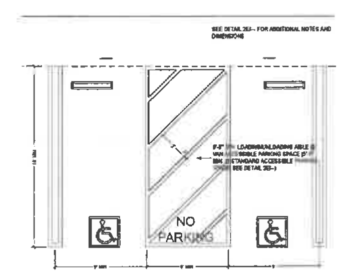

4E ACCESSIBLE PARKING SPACE - VAN
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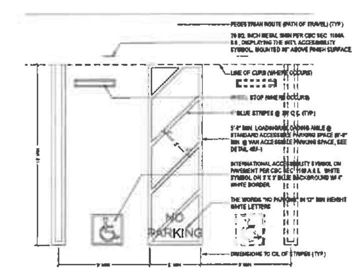


2E ACCESSIBLE PARKING SPACE - STANDARD
SCALE: 1/4" = 1'-0"

1 - plan check corrections 01.18.22

HTH CHARITABLE FOUNDATIONS MIDDLE SCHOOL
3080 CENTERPOINTE EAST
PRESCOTT, AZ 86305

HEADWATERS
ARCHITECTURE P.C.
105 SOUTH CORTEZ STREET, STE 240
PRESCOTT, AZ 86303
01/19/22

A-0.3

LETTERS AND NUMBERS

1 WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1
2 STROKE WIDTH TO HEIGHT BETWEEN 1:5 AND 1:10
3 CONTRAST CHARACTERS AND SYMBOLS WITH BACKGROUND
4 SANS SERIF CHARACTERS

SIGNS/PICTOGRAMS

5 PICTOGRAMS/PICTORIAL SYMBOL SIGNS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION SHALL BE A MINIMUM OF 6" IN HEIGHT
6 CHARACTERS AND BACKGROUNDS SHALL BE OF NON-GLARE, CONTRASTING COLORS
7 SIGNS/PICTOGRAMS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE DOOR LEADING TO THE ROOM OR SPACE THEY DESCRIBE AND AT 60" A.F.F. TO THE CENTERLINE OF THE SIGN AND WHERE A PERSON MAY APPROACH WITH 3" OF THE SIGNAGE WITHOUT ENCOUNTERING ANY PROTRUDING OBJECTS OR STANDING WITHIN THE DOORSWING AREA
8 VERTICAL CLEARANCE AT SUSPENDED SIGNS WITH MINIMUM HEADROOM OF 80" REQUIRE MINIMUM 3" CHARACTER HEIGHT MEASURED BY USING UPPERCASE "X". CHARACTERS AND NUMBERS SHALL BE SIZED ACCORDING TO VIEWING DISTANCE FROM WHICH READ (LOWER CASE CHARACTERS ARE NOT PERMITTED)

SIGN LOCATIONS

9 ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH A MINIMUM OF ONE STANDARD SIGN
10 ADDITIONAL DIRECTIONAL SIGNS ALONG THE ACCESSIBLE PATH OF TRAVEL MAY BE REQUIRED
11 BUILDINGS REMODELED TO PROVIDE ACCESSIBLE SANITARY FACILITIES FOR THE PUBLIC USE SHALL HAVE INFORMATION POSTED IN THE LOBBY AS PART OF THE BUILDING DIRECTORY

INTERNATIONAL SYMBOL OF ACCESSIBILITY

12 STANDARD USED TO IDENTIFY ACCESSIBLE FACILITIES
13 WHITE FIGURE ON BLUE BACKGROUND, COLOR # 15090 ON FEDERAL STANDARD # 595A
14 WHEN ENFORCING AGENCY DETERMINES IF APPROPRIATE, SPECIAL DESIGNS AND COLORS MAY BE APPROVED

BRAILLE

15 USE CONTRASTED GRADE 2 BRAILLE. DOTS TO BE 0.1 INCH ON CENTER IN EACH CELL
16 USE 0.2 INCH SPACING BETWEEN CELLS
17 DOTS RAISED A MINIMUM OF 0.025 INCH ABOVE THE BACKGROUND

7C ACCESSIBILITY SYMBOLS
SCALE: N.T.S.

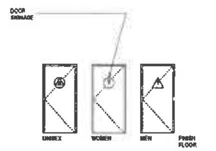
DOOR TYPE

1 THE BOTTOM 10" OF ALL DOORS, ACCEPT AUTOMATIC AND SLIDING, SHALL HAVE A SMOOTH,
UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT
CREATING A TRAP OR HAZARDOUS CONDITION FOR THE DISABLED INDIVIDUAL.

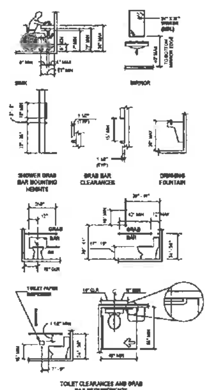
HARDWARE

2 SHALL BE OPENABLE FROM THE INSIDE WITHOUT ANY SPECIAL KNOWLEDGE OR EFFORT. THE LATCHING AND LOCKING DOOR THAT ARE HAND ACTIVATED AND WHICH ARE IN THE PATH OF TRAVEL SHALL BE OPENABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC DEVICE, PUSH-PULL, ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE
3 DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON DOORS REQUIRED TO BE ACCESSIBLE SHALL NOT REQUIRE GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. MANUALLY OPERATED BOLTS OR SURFACE BOLTS ARE NOT PERMITTED. THE UNLATCHING OF ANY DOOR OR LEAF SHALL NOT REQUIRE MORE THAN ONE OPERATION.
4 HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 30" AND 44" ABOVE THE FINISH FLOOR
5 MAXIMUM EFFORT TO OPERATE EXTERIOR AND INTERIOR DOORS SHALL NOT EXCEED 5 POUNDS, WITH SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS WHEN FIRE DOORS ARE REQUIRED. THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY BE INCREASED TO THE MAXIMUM ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY, NOT TO EXCEED 15 LBS./FT

7E ACCESSIBLE DOORS
SCALE: N.T.S.



6A SIGN - RESTROOM DOOR / WALL
SCALE: 1/4" = 1'-0"



TOILET CLEARANCES AND GRAB BAR REQUIREMENTS

NOTES:

1 EXPOSED HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE CONFIGURED TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES

2 LAVATORY FAUCETS SHALL COMPLY WITH ADA SECTION 4.19.5.

3 ALL MILLWORK FINISHES SHALL BE PLASTIC LAMINATE UNLESS NOTED OTHERWISE

4 ALL COUNTER TOPS, EDGES AND SPLASHES SHALL BE PLASTIC LAMINATE

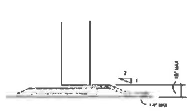
5 ALL PLASTIC LAMINATE COLORS SHALL BE SELECTED BY OWNER

6 ALL COMMON USE SINKS, SUCH AS KITCHENS, WORK ROOMS, CONFERENCE ROOMS AND LOUNGES, SHALL BE ACCESSIBLE WITH KNEE CLEARANCE, PIPE PROTECTION, MAXIMUM SINK DEPTH, FAUCET CONTROLS, COUNTER HEIGHT, ETC., AND STORAGE AREAS IN COMMON USE AREAS SHALL BE ACCESSIBLE PER ADA STANDARDS

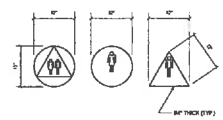
7 ACCESSORIES SUCH AS GRAB BARS, TOWEL BARS, PAPER DISPENSERS AND SOAP DISPENSERS, ETC., SHALL BE SEALED TO PROTECT STRUCTURAL ELEMENTS FROM MOISTURE, AND HAVE 22 GA. SHEET METAL BACKING IN WALL FOR MOUNTING

8 ALL WATER CLOSETS SHALL BE THE ELONGATED TYPE, HINGED OPEN-FRONT TYPE PER IPC 420.2 & 3

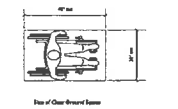
6D TYPICAL RESTROOM DETAILS
SCALE: N.T.S.



6E THRESHOLD
SCALE: N.T.S.

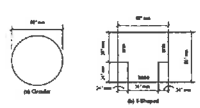


5A SIGN - RESTROOM DOOR
SCALE: N.T.S.



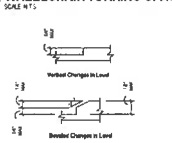
Size of Clear Ground Space

5B CLEAR GROUND SPACE
SCALE: N.T.S.

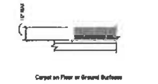


Size of Wheelchair Turning Space

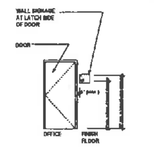
5C WHEELCHAIR TURNING SPACE
SCALE: N.T.S.



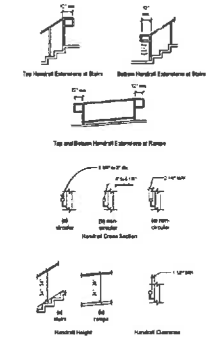
5D CHANGES IN LEVEL
SCALE: N.T.S.



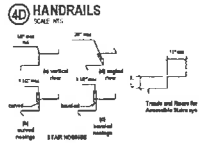
5E FLOOR OR GROUND SURFACES
SCALE: N.T.S.



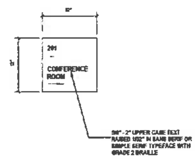
4A SIGN - OFFICE
SCALE: 1/4" = 1'-0"



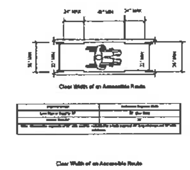
4D HANDRAILS
SCALE: N.T.S.



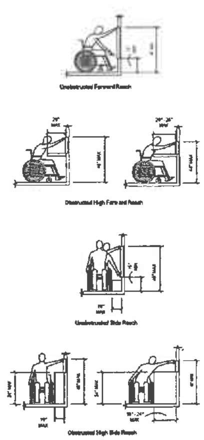
4E STAIRWAYS
SCALE: N.T.S.



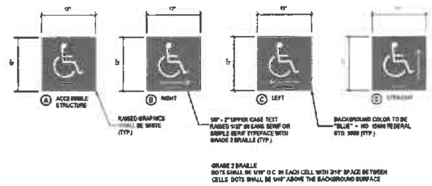
3A TYPICAL ROOM SIGN
SCALE: N.T.S.



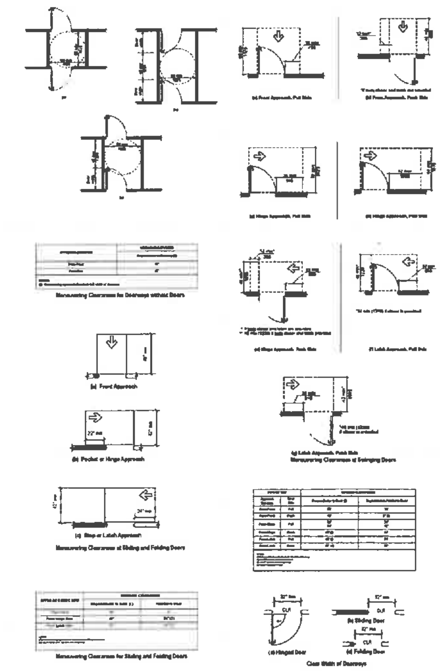
3B ACCESSIBLE ROUTE WIDTH
SCALE: N.T.S.



3E REACH RANGES
SCALE: N.T.S.



2A TYPICAL DIRECTIONAL WALL SYMBOLS
SCALE: N.T.S.



2E DOORS AND DOORWAYS
SCALE: N.T.S.

⚠1 - plan check corrections 01.19.22

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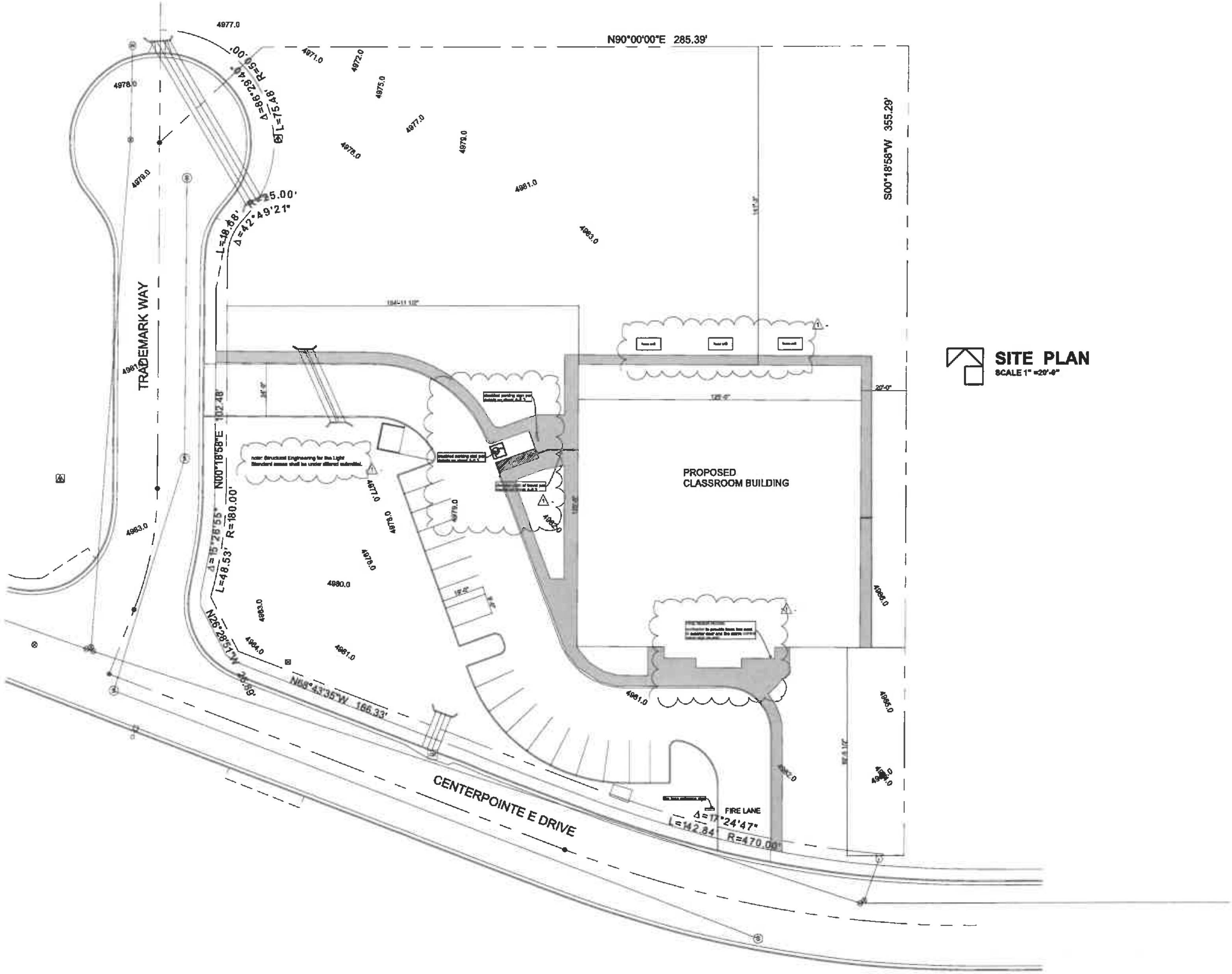
A-0.4



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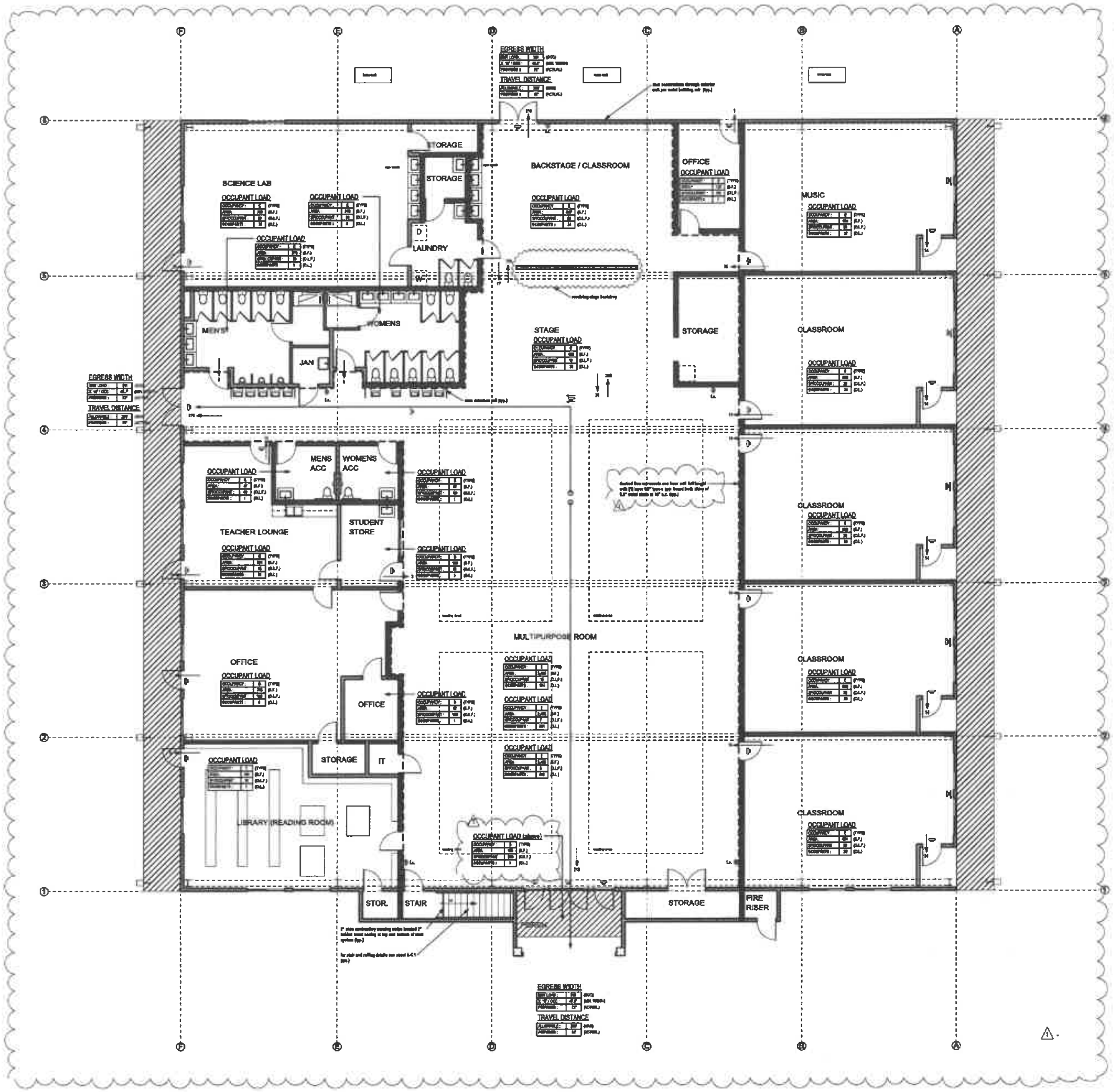
A-T.1



OVERALL EGRESS FLOOR PLAN

SCALE 1/8" =1'-0"

PROJECT DATA:

SCOPE OF WORK:
A NEW MIDDEL SCHOOL BUILDING ON PARCEL WEST OF EXISTING CAMPUS

OWNER:
HTH CHARITABLE FOUNDATION INC
2360 PLEASANT VALLEY DR
PRESCOTT, AZ 86305

ADDRESS:
3080 CENTERPOINTE EAST DR
PRESCOTT, AZ 86305

APN: 103-01-678T

AREA:
1 STORY 15,625 SF

CONSTRUCTION TYPE: VB W AFS

SITE AREA: 94,960 SF OR 2.18 ACRES

LOT COVERAGE:
15,625 /94,960 = 16.45%

OCCUPANCY: E, B AND A-3

OCCUPANTS...

3617 SF	CLASSROOMS/SCIENCE	176
962 SF	OFFICES	10
781 SF	BATHROOMS	8
324 SF	TEACHER LOUNGE	24
445 SF	LIBRARY	9
667 SF	BACKSTAGE/CLASSROOM	34
420 SF	STAGE	28
125 SF	STUDENT STORE	3
2450 SF	MULTI-PURPOSE	482
TOTAL		764 OCCUPANTS

REQUIRED PLUMBING

MEN 383 OCC	WOMEN 383 OCC
WC 1/50 = 8	WC 1/50 = 8
LAV 1/50 = 8	LAV 1/50 = 8
DF 1/100 = 4	DF 1/100 = 4
SS = 1	

PROVIDED PLUMBING

MEN	WOMEN
WC 1/50 = 8	WC 1/50 = 10
LAV 1/50 = 8	LAV 1/50 = 9
DF 1/100 = 6	DF 1/100 = 6
SS = 1	

(FIRE SPRINKLER PLANS AND FIRE ALARM PLANS WILL BE A DEFERRED SUBMITTAL)

REQUIRED PARKING:
(2) SPACES PER CLASSROOM
7 CLASSROOMS X 2 = 14 SPACES REQUIRED

PROVIDED PARKING:
19 REGULAR SPACES
1 DISABLED STALL

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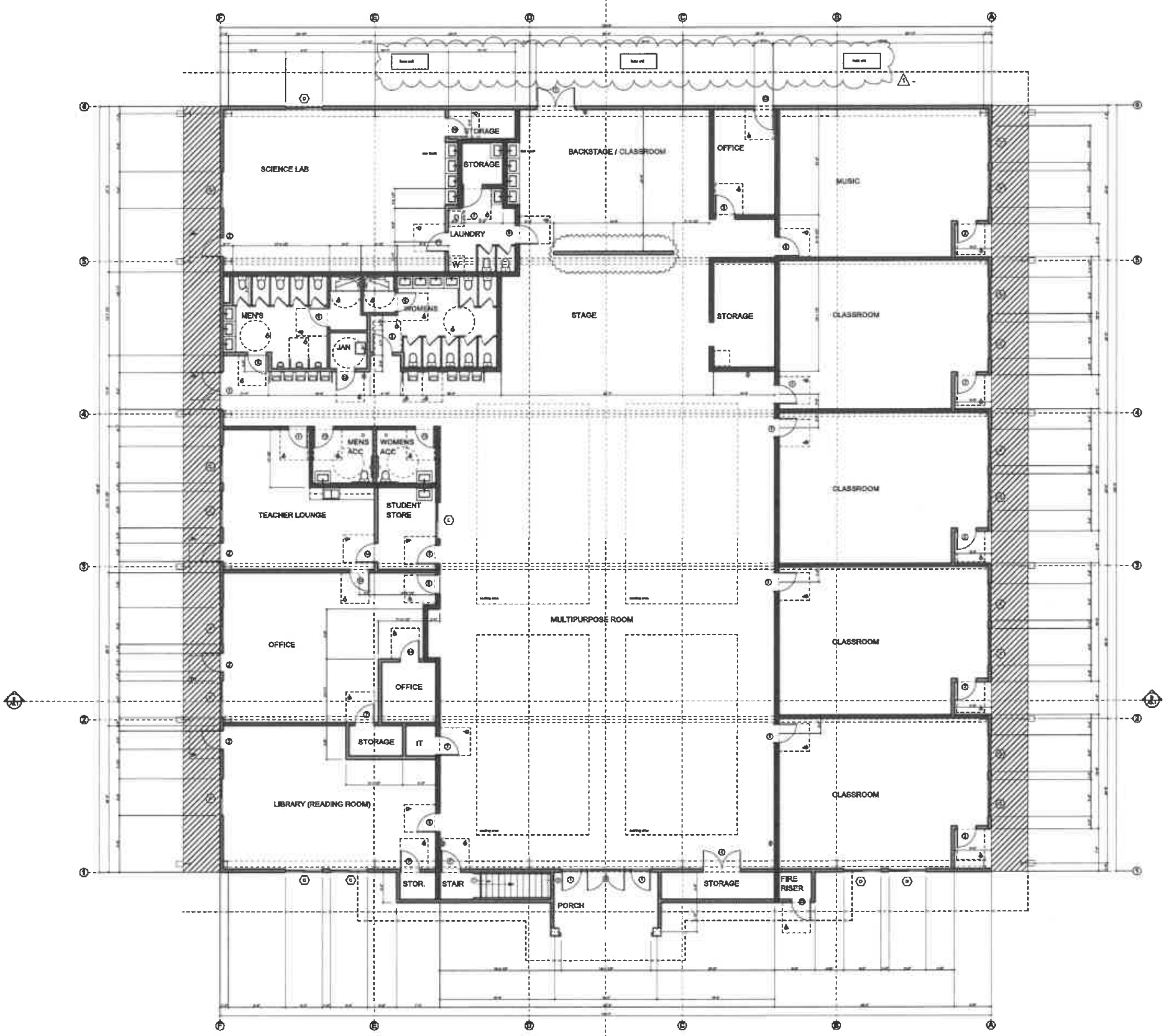
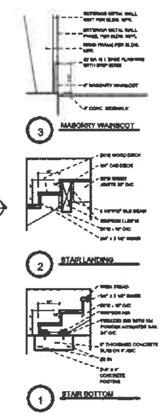
CS-1.1



OVERALL MAIN FLOOR PLAN

WALL LEGEND :



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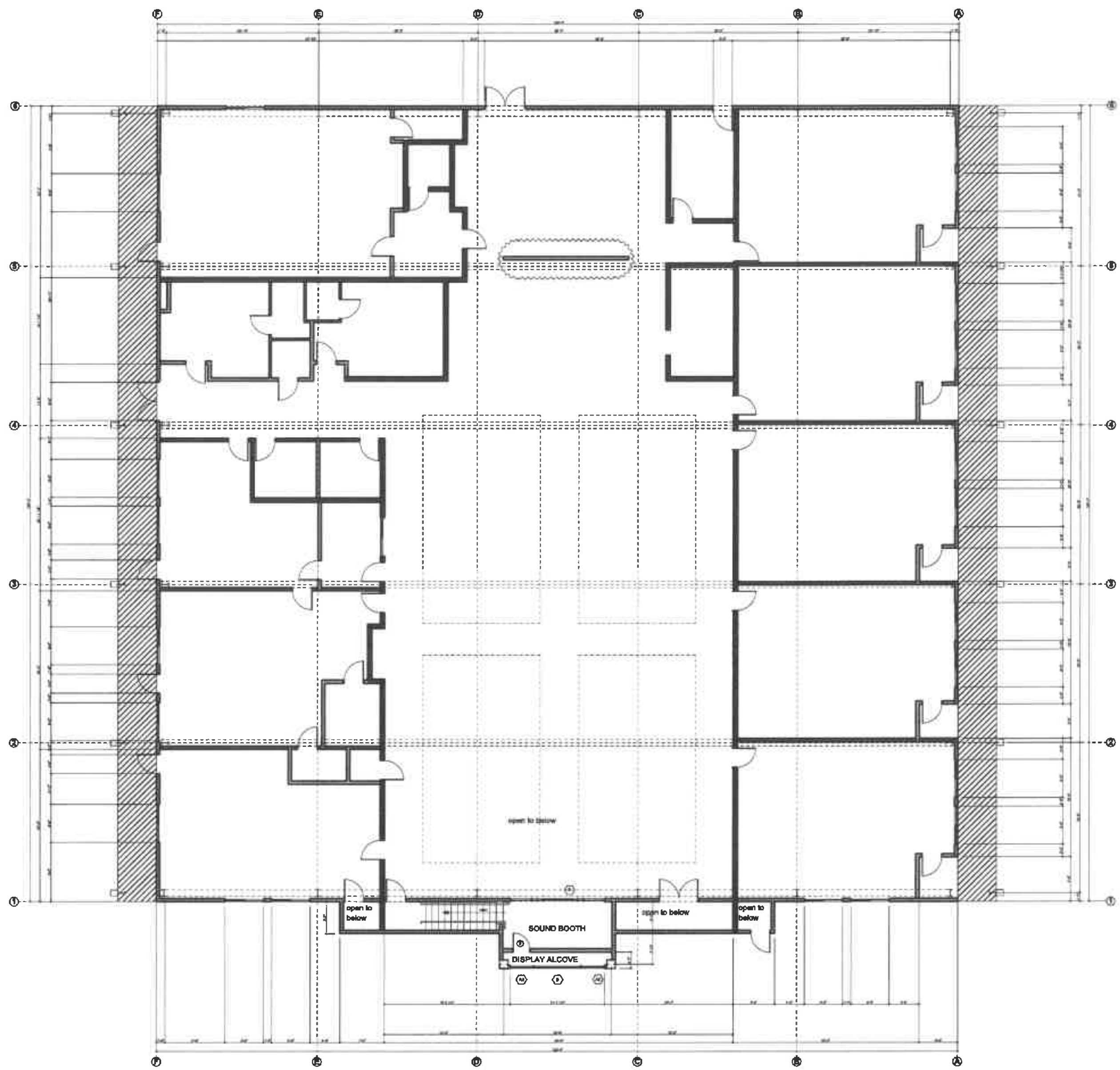
A-2.1



OVERALL MEZZANINE PLAN

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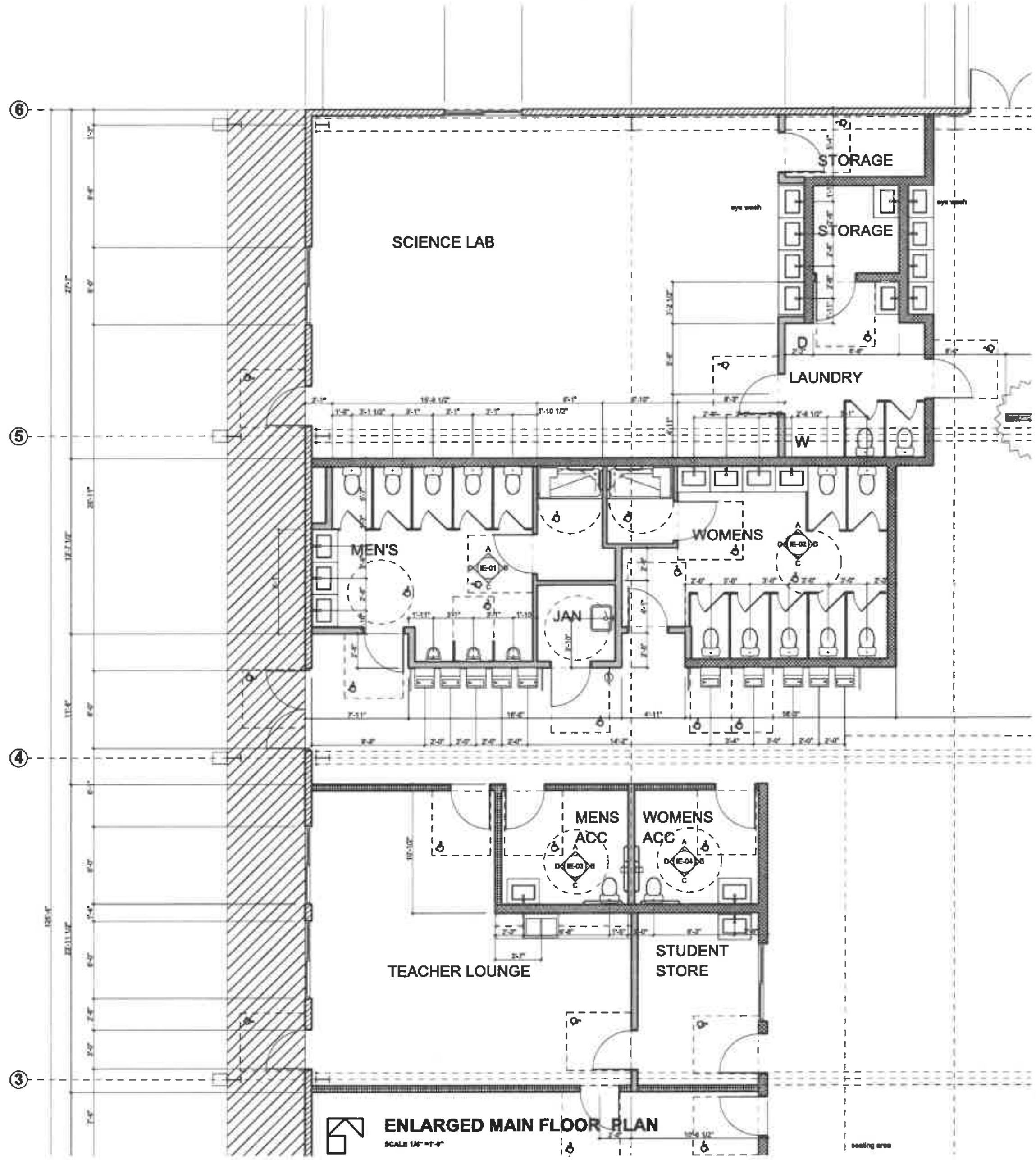
A-2.2



ENLARGED MAIN FLOOR PLAN

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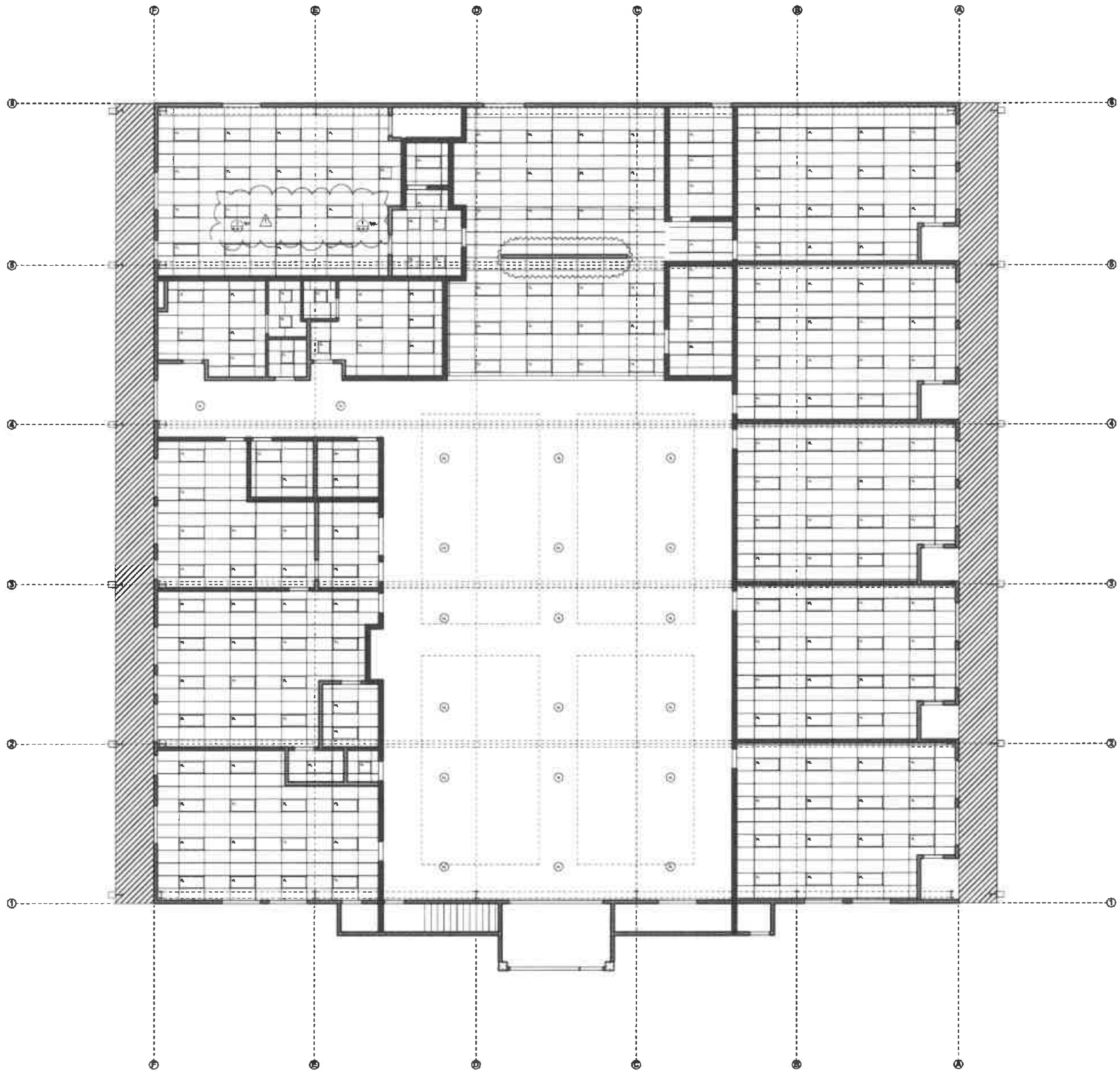
A-2.3



OVERALL REFLECTED CEILING PLAN

SCALE 1/8" =1'-0"

REFLECTED CEILING SYMBOLS LIST

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A-2.4

OVERALL ROOF PLAN

SCALE 1/8" =1'-0"

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A-2.5

DOOR SCHEDULE

No.	Quantity	TYPE	DOOR MATL	Width	Height	Thickness	GLZ	FRAME MATL	HRDWR SET	NOTES: (ALL DOOR HARDWARE TO COMPLY WITH 2018 IFC AND IBC)
1	2	A	ALUMN. STOREFRONT	3'-0"	6'-8"	—	TEMP	ALUMN.	PANIC DEVICE	
2	9	B	HOLLOW MTL.	3'-0"	6'-8"	—	TEMP	H.M.	PANIC DEVICE	
3	3	C	ALUMN. STOREFRONT	6'-0"	6'-8"	—	TEMP	ALUMN.	PANIC DEVICE	
4	1	D	HOLLOW MTL.	6'-0"	6'-8"	—		H.M.		20 MIN. DOOR AND ASSEMBLY
5	10	E	HOLLOW MTL.	3'-0"	6'-8"	—	TEMP	ALUMN.		20 MIN. DOOR AND ASSEMBLY
6	2	F	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		
7	6	G	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		
8	3	H	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		20 MIN. DOOR AND ASSEMBLY
9	1	G	HOLLOW MTL.	2'-6"	6'-8"	—		ALUMN.		
10	1	B	HOLLOW MTL.	3'-0"	6'-8"	—	TEMP	H.M.		20 MIN. DOOR AND ASSEMBLY
11	1	H	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		
12	1	G	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		20 MIN. DOOR AND ASSEMBLY
13	2	B	HOLLOW MTL.	3'-0"	6'-8"	—	TEMP	H.M.		
14	3	E	HOLLOW MTL.	3'-0"	6'-8"	—	TEMP	ALUMN.		
15	2	F	HOLLOW MTL.	3'-0"	6'-8"	—		ALUMN.		20 MIN. DOOR AND ASSEMBLY
41	1			3'-0"	3'-0"	—				

DOOR TYPES

Element ID	1	2	3	4	5	6	7	8	9	10	11	12	13	13	14	15
2D Plan Preview																
View from Opening Side																
Leaf Dimensions	3'-0"×6'-8"	3'-0"×6'-8"	6'-0"×6'-8"	6'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	2'-6"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"	3'-0"×6'-8"
Type	A	B	C	D	E	F	G	H		B	H	G	B	G	E	F

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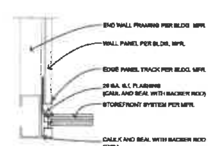
A-3.1

WINDOW SCHEDULE

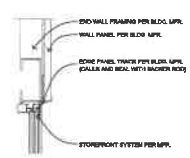
MARK	Quantity	SIZE		TYPE	MATERIAL	NOTES: all windows to have a minimum STC rating of 45
		WIDTH	HEIGHT			
A1	1	3'-8"	7'-0"	—	Mil-Aluminium	U-Factor of 0.36 and SHGC factor of 0.36
A2	1	3'-8"	7'-0"	—	Mil-Aluminium	U-Factor of 0.36 and SHGC factor of 0.36
B	1	7'-4"	7'-10"	—	Mil-Aluminium	U-Factor of 0.36 and SHGC factor of 0.36
C	8	6'-0"	4'-0"	—	Mil-Aluminium	U-Factor of 0.36 and SHGC factor of 0.36
D	14	6'-0"	1'-8"	—	Mil-Aluminium	U-Factor of 0.36 and SHGC factor of 0.36
E	1	[illegible]	[illegible]	—	[illegible]	[illegible]

WINDOW TYPES

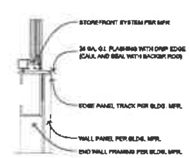
Element ID	A1	A2	B	C	D	E
2D Plan Preview						
View from Opening Side						
Unit Dimensions	3'-8"×7'-0"	3'-8"×7'-0"	7'-4"×7'-10"	6'-0"×4'-0"	6'-0"×1'-8"	14'-7"×5'-0"
Type	1	1	1	2	2	1



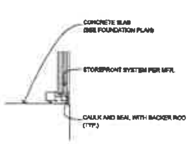
JAMB DETAIL
1 STOREFRONT DETAIL



HEAD / JAMB DETAIL
2 STOREFRONT DETAIL



SILL DETAIL
3 STOREFRONT DETAIL



SILL DETAIL
4 STOREFRONT DETAIL

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A-3.2

FINISH SCHEDULE

ROOM DESCRIPTION	FLOORING				WALLS				BASE				CEILING				REMARKS
	CARPET	TILE	EXP. WOOD FLOOR	EXP. CONCRETE	PAINTED GYP. BD.				48" PLASTIC LAM.			4" RUBBER TOPSET	T-BAR	PAINTED GYP. BD.	CLOTH FABRIC	EXP. STRUCTURE	
MULTI PUROSE ROOM		X			X							X			X		CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
CLASSROOM	X				X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
OFFICE	X				X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
LIBRARY	X				X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
TEACHERS LOUNGE	X				X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
STUDENT STORE		X			X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
IT				X	X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
JANITOR				X	X				X			X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
MENS		X			X				X			X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
WOMENS		X			X				X			X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
SCIENCE LAB		X			X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
STORAGE				X	X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
BACKSTAGE/CLASSROOM				X	X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
LAUNDRY		X			X				X			X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
STAGE		X			X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
STAIR			X	X	X							X			X		CLASS - B FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
MUSIC	X				X							X	X				CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
FIRE RISER				X	X							X				X	CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
DISPLAY ALCOVE			X		X										X		CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES
SOUND BOOTH	X				X							X			X		CLASS - C FLAME SPREAD RATING FOR ALL INTERIOR FINISHES

△ -

△ - plan check corrections 01.19.22

HTH CHARITABLE FOUNDATIONS MIDDLE SCHOOL
3080 CENTERPOINTE EAST
PRESCOTT, AZ 86305

EXP 6/30/24

HEADWATERS
ARCHITECTURE P.C.
105 SOUTH CORTEZ STREET, STE 240
PRESCOTT, AZ 86303
01/19/22

A-3.3

INTERIOR NOTES:

1. 5/8" GYP.BOARD WITH LT. KNOCK DOWN TEXTURE AND 3-COAT LATEX PAINT FINISH.
2. 48" HIGH "FRP" PANEL WITH ALUMN. TOP TRIM.
3. 4" RUBBER TOP SET BASE.
4. CULTURED MABLE COUNTER TOP WITH INTEGRAL 4" SPLASH.
5. PLATE GLASS MIRROR WITH ALUMN. FRAME.
6. 48" LONG GRAB BAR MOUNTED AT 36" A.F.F.
7. 36" LONG GRAB BAR MOUNTED AT 36" A.F.F.
8. 18" LONG VERTICAL GRAB BAR MOUNTED WITH TOP AT 59" A.F.F.
9. DOOR AND ALUMN. FRAME PER DOOR SCHEDULE.
10. SOAP DISPENSER MOUNTED AT 42" A.F.F.
11. TOILET PAPER DISPENSER MOUNTED AT 17" A.F.F.
12. BABY CHANGING STATION MOUNTED AT 36" A.F.F.
13. 9'-0" HIGH "FRP" PANEL WITH ALUMN. TOP TRIM.
14. PAPER TOWEL DISPENSER MOUNTED AT 42" A.F.F.
15. LEVER HANDLE FAUCET.
16. 24" x 48" PLASTIC LAMINATED URINAL SCREEN.
17. URINAL PER PLUMBING PLANS (TYP.).
18. TOILET PER PLUMBING PLANS (TYP.).
19. ADA SHOWER SEAT AT 18" A.F.F.

1 - plan check corrections 01.19.22

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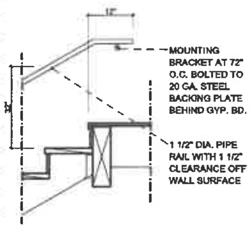
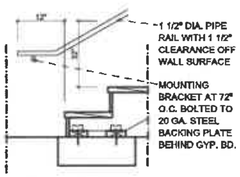
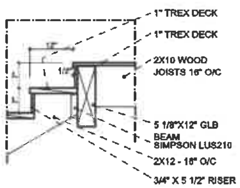
A-4.1



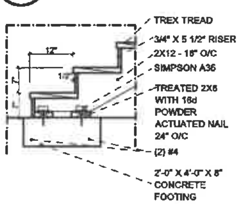
5 STAIR RAILING



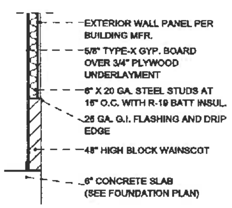
4 STAIR RAILING



3 STAIR LANDING



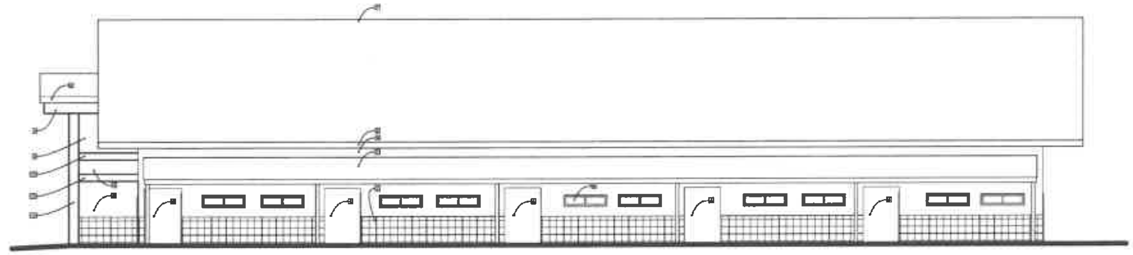
2 STAIR BOTTOM



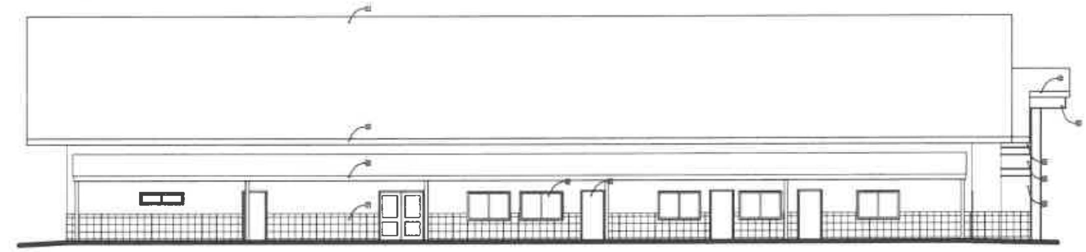
1 WAINSCOT DETAIL

EXTERIOR NOTES:

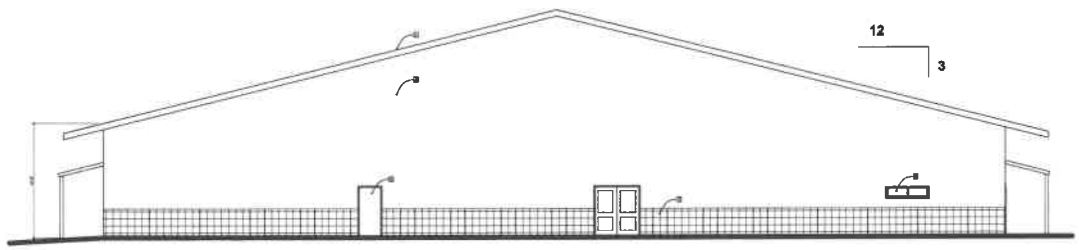
1. STANDING SEAM METAL ROOF PER BUILING MFR.
2. ALUMINUM GUTTER AND DOWNSPOUT PER BUILDING MFR.
3. ALUMINUM STOREFRONT DOOR PER DOOR SCHEDULE.
4. METAL WALL PANELS PER BUILDING MFR.
5. METAL SOFFIT ENCLOSURE PER BUILDING MFR.
6. METAL DOOR AND FRAME PER DOOR SCHEDULE.
7. 8 X 8 X 16 CMU BLOCK WAINSCOT 4'-0" HIGH.
8. 2" X 4" ALUMINUM STOREFRONT WINDOW SYSTEM WITH DUAL GLAZING AND LOW-E COATING.
9. ALUMINUM WINDOW SYSTEM WITH DUAL GLAZING AND LOW-E COATING.
10. 6" x 12" WALL SOFFIT PER BUILDING MFR.
11. 12" X 16" WALL SOFFIT PER BUILDING MFR.



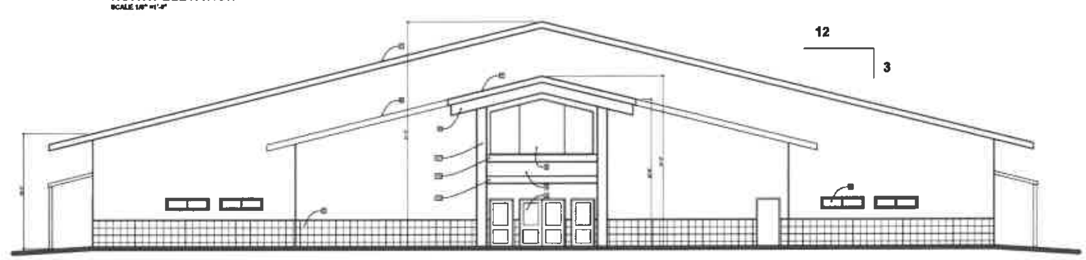
EAST ELEVATION
SCALE 1/8" =1'-0"



WEST ELEVATION
SCALE 1/8" =1'-0"



NORTH ELEVATION
SCALE 1/8" =1'-0"



SOUTH ELEVATION
SCALE 1/8" =1'-0"

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HTH CHARITABLE FOUNDATIONS MIDDLE SCHOOL
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REGISTERED ARCHITECT TODD J. MAROLF ARIZONA, U.S.A.
EXP 6/30/24

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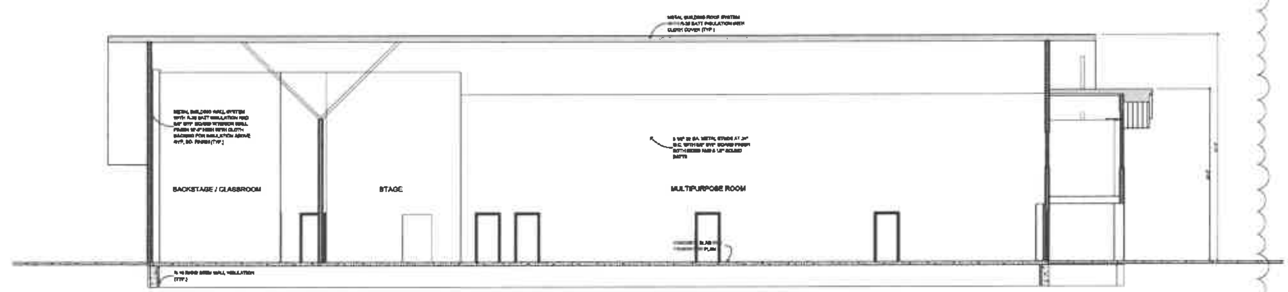
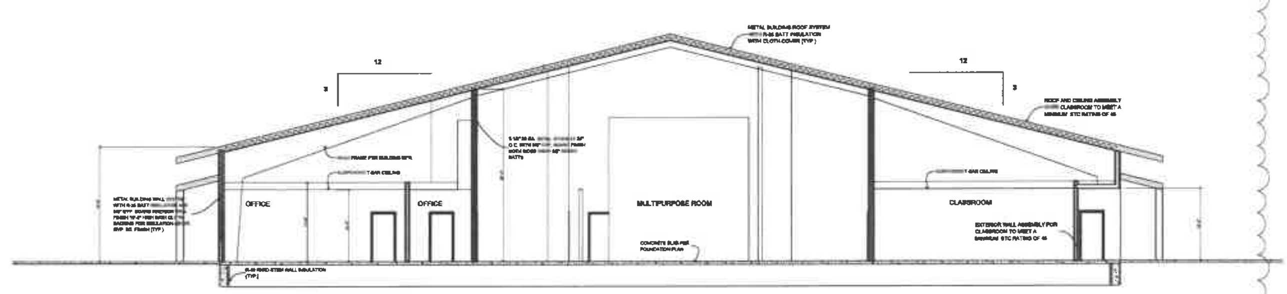
01/19/22

A-5.1



A
A-6.1
Building Section - A
SCALE: 1/8" = 1'-0"



B
A-6.1
Building Section - B
SCALE: 1/8" = 1'-0"

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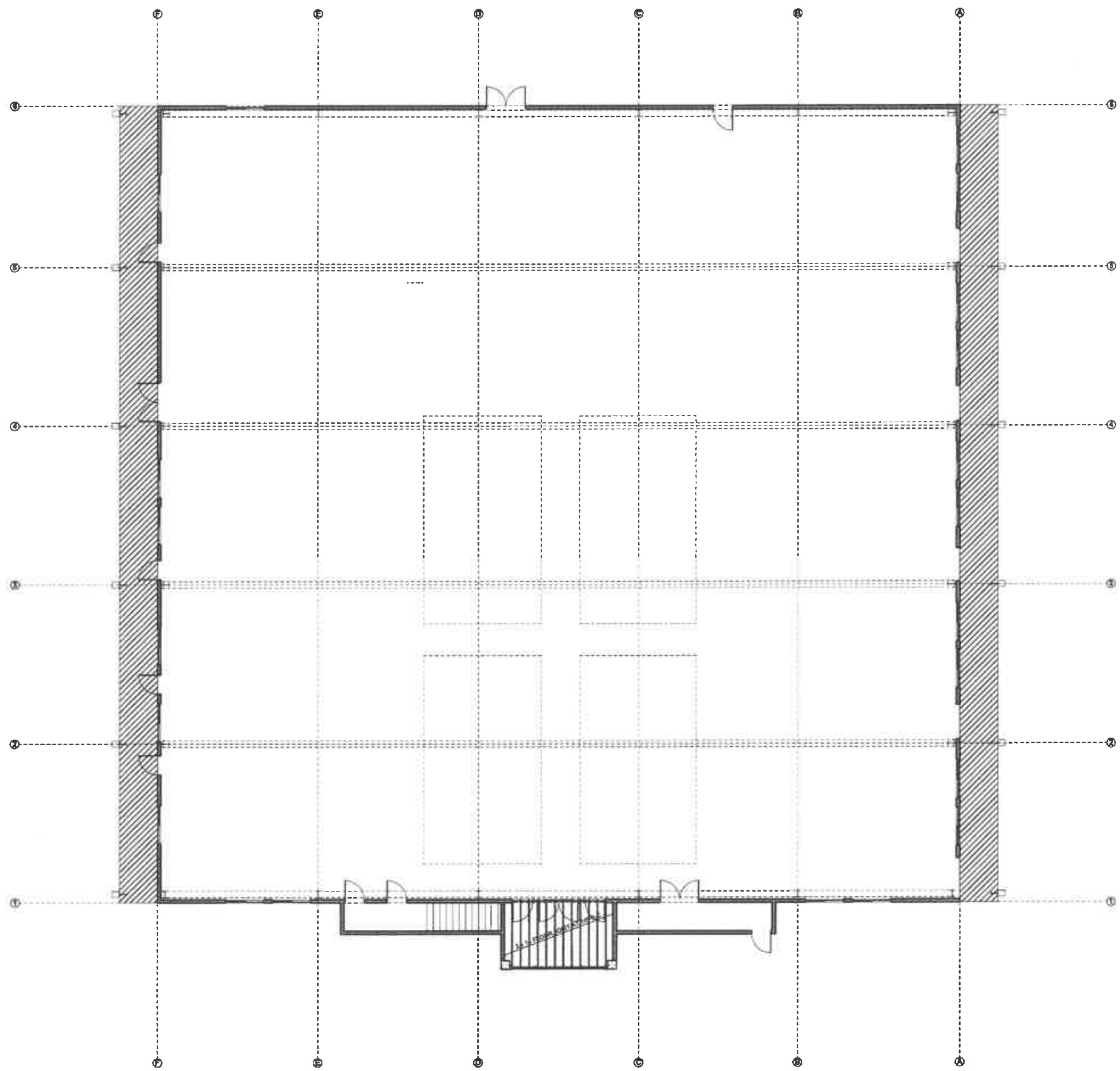
A-6.1



UPPER FLOOR FRAMING PLAN

SCALE 1/8" = 1'-0"

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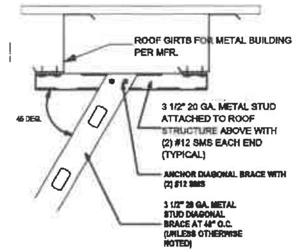
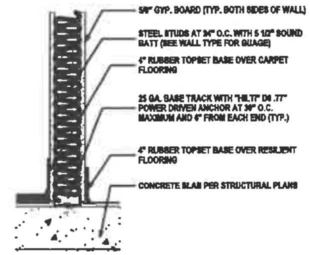
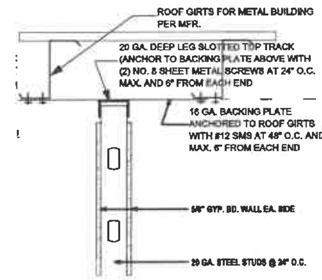
A-7.2







8 SPACE

6 WALL BRACE DETAIL

3 WALL BASE DETAIL

2 DEFLECTION TRACK

SUSPENDED GRID CEILING SYSTEM NOTES:

1. SUSPENDED CEILING SYSTEM DESIGN: SHALL BE BASED ON ARMSTRONG CEILINGS "PRELUDE XL SYSTEM", TO BE INSTALLED IN ACCORDANCE WITH ICC REPORT ESR-1308. SUBSTITUTION OF ANY ALTERNATE CEILING SYSTEM MUST BE IN ACCORDANCE WITH ICC REPORT AND CITY REQUIREMENTS. PROVIDE STRUCTURAL CALULATIONS FOR ANY SUBSTITUTED CEILING SYSTEM NOT MEETING THESE REQUIREMENTS.

2. INSTALLATION: SHALL BE IN ACCORDANCE WITH ALL REQUIREMENTS OF IBC CHAPTER 25, IBC 803.9.11 AND 1831.1, INCLUDING STATE OF ARIZONA AMMENDMENTS.

3. GRID SYSTEM: SHALL BE HEAVY DUTY PER ASCE 7-05 13.5.6.2.2 (A).

4. TOLERANCES: CEILING GRID SHALL BE INSTALLED WITHIN A LEVEL HORIZONTAL TOLERANCE OF 1/8" IN 12'-0". SUPPORT AND BRACE CEILING SYSTEM PER DETAILS.

5. CONNECTIONS, SUPPORTS AND BRACING: SUSPENDED CEILING SYSTEM SHALL BE CONNECTED, SUPPORTED AND BRACED DIRECTLY TO STRUCTURAL FRAMING ONLY.

6. SPANS: FOR ROOMS WITH A SPAN IN EITHER DIRECTION OF LESS THAN 25 FT. MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF 2 ADJ. WALLS, WITH 3/8" CLR. TO THE RUNNER AND WALL ANGLES AT THE OTHER TWO WALLS. WHERE CEILING SYSTEM SPAN BETWEEN PERIMETER WALLS EXCEEDS 25 FT. IN BOTH DIRECTIONS, A MIN. WALL ANGLE SIZE OF 2" HORIZ LEG SHALL BE USED AT ALL PERIMETER WALLS AND INTERIOR FULL HT. PARTITIONS. THE FIRST TILE SHALL BE 3/4" CLEAR FROM ALL SURFACES.

7. ENDS OF MAIN RUNNERS: SHALL BE TIED TOGETHER TO PREVENT SRPEADING.

8. POP RIVETS: SHALL BE ON ONE SIDE OF GRID MEMBER SPAN ONLY.

9. HANGER WIRES: PROVIDE HANGER WIRE (12 GA.MIN.) AT 8" FROM WALL AT TERMINAL ENDS OF WALL MAIN AND CROSS RUNNERS. HANGER WIRES SHALL BE VERTICAL TO WITHIN A 1:6 SLOPE UNLESS COUNTER SLOPING WIRES ARE PROVIDED. HANGER WIRES SHALL NOT BE ATTACHED TO, OR BENT AROUND INTERFERING MATERIAL OR EQUIPMENT.

10. VERTICAL HANGER SPACING: WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4 FT., THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 24" O.C. ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVICING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.

11. SPLAY BRACING: PROVIDE AT 12'-0" ON CENTER EACH WAY SPLAY BRACING OF (4) 12 GA. WIRES AT 45 DEGREES MAX. FROM HORIZONTAL AND WITHIN 2" OF MAIN RUNNER AND CROSS RUNNERS.

12. COMPRESSION STRUTS: SHALL BE PLUMB WITHIN 6" OF CENTERLINE OF RUNNER INTERSECTION AND PURLIN SUPPORT.

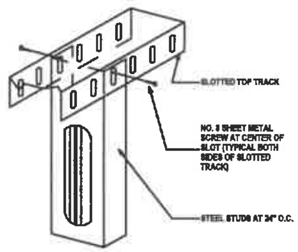
13. HVAC SUPPORT: PROVIDE (2) 12 GA. HANGER WIRES AT OPPOSITE CORNERS OF ALL SUSPENDED HVAC DIFFUSERS AND GRILLS, AND INDEPENDENTLY SUPPORTED FROM CEILING GRID. DO NOT REST DUCTWORK OR OTHER ITEMS ON CEILING GRID OR PANELS.

14. TRAPEZE: OR EQUIVALENT DEVICE SHALL BE USED WHERE DIRECT ATTACHMENT IS NOT POSSIBLE DUE TO INTERFERING MATERIAL OR EQUIPMENT. FOR SPANS GREATER THAN 48", TRAPEZE SUSPENSIONS SHALL AT LEAST BE BACK-TO-BACK WITH 1 1/4" COLD ROLLED CHANNELS.

15. TILE HOLD-DOWNS: LAY-IN CEILING TILES OR PANELS SHALL BE SECURED TO SUSPENDED SYSTEM WITH (2) HOLD-DOWN CLIPS MIN. FOR EACH TILE WITHIN A 48" RAD. OF EXIT LIGHTS AND EXIT SIGNS.

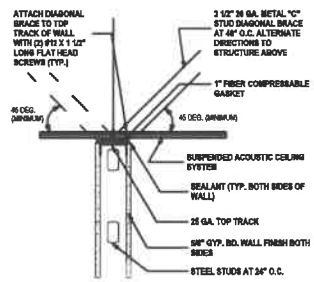
16. PARTIAL TILES: ALL TEGULAR TILES WHICH ARE CUT TO FIT SHALL BE KERFED TO MATCH FULL TILES.

17. SPECIAL INSPECTION: PROVIDE PERIODIC DEPUTY INSPECTION OF THE ANCHORAGE OF SUSPENDED CEILING SYSTEMS IN ACCORDANCE WITH THE REQUIREMENTS OF IBC 2506.2.1 AND ASCE 7-02 SECTION 9.6.2.6.2.2 (H). SPECIAL INSPECTOR MUST VERIFY THAT CEILING SYSTEM IS AS DESCRIBED IN ESR-1308 AND COMPLIES WITH THE INSTALLATION INSTRUCTIONS OF THE REPORT.

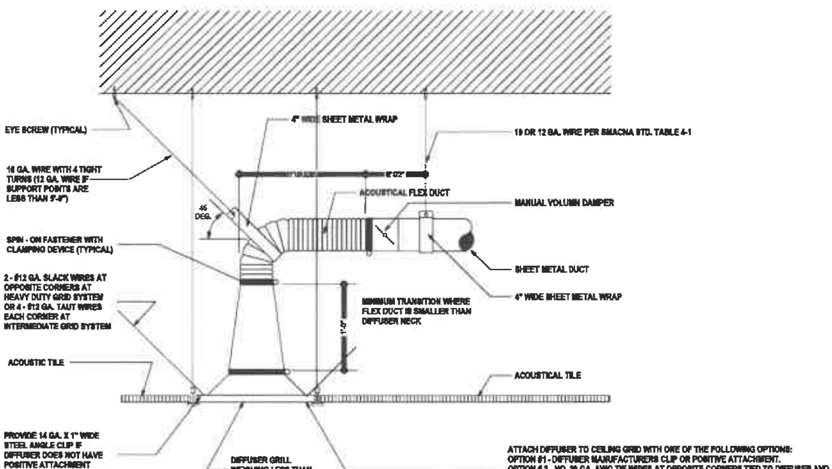


SLIP TRACK TO BE 18 GA. ON INTERIOR WALLS AND 16 GA. ON EXTERIOR WALLS (MINIMUM Fy 50 KSI)

7 SLIP TRACK DETAIL

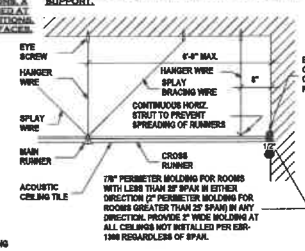


5 CEILING TRACK DETAIL



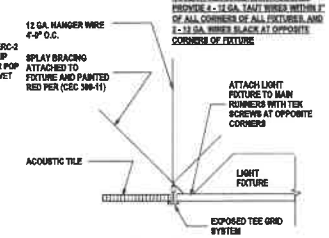
ATTACH DIFFUSER TO CEILING GRID WITH ONE OF THE FOLLOWING OPTIONS:
OPTION #1 - DIFFUSER MANUFACTURERS CLIP OR POSITIVE ATTACHMENT.
OPTION #2 - NO. 20 GA. AWG TIE WIRES AT OPPOSITE CORNERS TIED TO DIFFUSER AND CEILING GRID. THEN TERMINATE EACH WIRE AT EACH END WITH 3 TWISTS MINIMUM.
OPTION #3 - 14 GA. X 1" STEEL CLIP ANGLE WITH #10 SMS TO DIFFUSER AND TO GRID MINIMUM TWO ATTACHMENT POINTS AT OPPOSITE CORNERS.

4 TYPICAL HVAC DUCTWORK & DIFFUSER SUPPORT

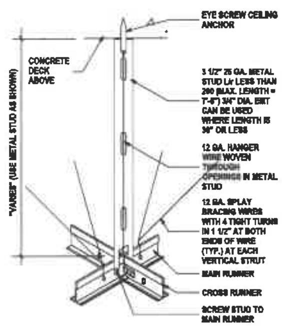


1d PERIMETER BRACING

NOTE: AT RECESSED LIGHT FIXTURES PROVIDE 4 - 12 GA. TAUT WIRES WITHIN 3" OF ALL CORNERS OF ALL FIXTURES, AND 2 - 12 GA. WIRES SLACK AT OPPOSITE CORNERS OF FIXTURE

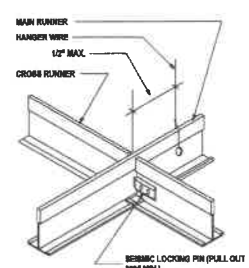


1e LIGHT FIXTURE SUPPORT

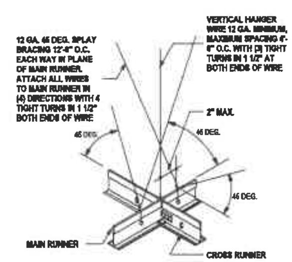


1a COMPRESSION STRUT

INSTALL AT 12'-0" O.C. MAXIMUM AND 6'-0" FROM EACH WALL IN ACCORDANCE WITH CBC CHAPTER 25 AND UBC STANDARD 25-2 SECTION 25.212.3



1b SEISMIC BRACING



1c SPLAY BRACING

1 SUSPENDED GRID CEILING SYSTEM

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A-8.1

AC-# PACKAGED AIR-CONDITIONER SCHEDULE:

TAG	MANUF.	MODEL NUMBER	FAN PERFORMANCE (CFM)	TOT. COOLING CAPACITY (MBH)	SEN. COOLING CAPACITY (MBH)	AIR COOLING EFFICIENCY (EER/IEER)	HEATING CAPACITY FUEL	HEATING CAPACITY INPUT/OUTPUT (MBH)	HEATING CAPACITY EFFICIENCY	ELECTRICAL: 208V/3Ø (FLA/MCA/MOCP)	WEIGHT (LBS)	NOTES:
AC-25a-c	CARRIER	48TCED29A7A5	9300 @ 0.75" ESP	278.18	191.54	9.8 / 12.2	NAT. GAS	235.6 / 190.8	81% AFUE	131.8 / 143 / 175	2944	1-5

NOTES:
1. DESIGN CONDITIONS: COOLING MODE = 80F/67F (DB/WB) EAT, 105F AMBIENT, HEATING MODE = 70F (DB) EAT, 10F AMBIENT, ELEVATION = 5052'
2. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS
3. PROVIDE 100% MODULATING OUTSIDE AIR ECONOMIZER WITH POWER EXHAUST, DEMAND CONTROL VENTILATION, DRY-BULB CONTROL. BALANCE MINIMUM OSA INTAKE TO CFM RATE INDICATED ON SHEET 'M-1'.
4. PROVIDE 2" FILTER RACK, PROGRAMMABLE THERMOSTAT (WIFI ENABLEND AND REMOTE TEMPERATURE SENSOR CAPABILITY).
5. PROVIDE DUCT SMOKE DETECTOR IN SUPPLY DUCTWORK, INTERLOCK WITH AIR MOVING EQUIPMENT TO SHUT UNIT DOWN UPON ACTIVATION.

EF-# EXHAUST FAN SCHEDULE

TAG	MFG.	MODEL	FLOW (CFM)	ESP (IN. WC)	CONFIGURATION	MOTOR (W)	ELECTRICAL (VOLTAGE)	WEIGHT (LBS)	SONES	NOTES:
EF-1	GREENHECK	SP-A110	75	0.125"	CEILING MOUNTED	48.7	120V - 1Ø	10	1.0	1,2,3
EF-2	GREENHECK	G-103-A	1000-1450	0.25"	DIRECT DRIVE DOWNBLAST	1/4HP	120V - 1Ø	54	11.5	1,2,3,4
EF-3	GREENHECK	SP-A200	200	0.125"	CEILING MOUNTED	48.2	120V - 1Ø	24	2.0	1,2,3

NOTES:
1. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS.
2. PROVIDE BACKDRAFT DAMPER, SOLID STATE SPEED CONTROLLER.
3. FAN TO BE WIRED TO RUN CONTINUOUSLY (U.N.O.).
4. PROVIDE FACTORY ROOF CURB.

DAC/CU-# DUCTLESS MINI-SPLIT SCHEDULE

MARK	MAKE	MODEL NUMBER	OUTDOOR UNIT	INDOOR UNIT	CONFIGURATION	COOLING (MBH)	HEATING (MBH)	EFFICIENCY (SEER/HSPF)	ELECTRICAL DATA VOLTAGE	MCA	MOCP	WEIGHT (LBS) IDU	ODU	NOTES:
DAC/DCU-1	LG	LS120HSV5	LSU120HSV5	LSN120HSV5	WALL MOUNT	12.0	13.6	22.7 / 12.5	208V-1PH	10	15	19	75	1,2,3

NOTES:
1. INSTALL UNIT PER MANUFACTURER'S RECOMMENDATIONS. LISTED CAPACITIES ARE NOMINAL AT AHRI CONDITIONS.
2. ELECTRICAL: SINGLE POINT POWER CONNECTION AT CONDENSING UNIT.
3. PROVIDE LG PROGRAMMABLE THERMOSTAT (PREMTB10U) & CONDENSATE PUMP IF GRAVITY DRAIN IMPOSSIBLE.

COMcheck Software Version 4.1.0.0

Mechanical Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: HTH CHARITY FOUNDATIONS MIDDLE SCHOOL
Location: Prescott, Arizona
Climate Zone: 4b
Project Type: New Construction

Construction Site: 3080 CENTERPOINT EAST PRESCOTT, AZ 86305
Owner/Agent:
Designer/Contractor:

Additional Efficiency Package(s)

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Mechanical Systems List

Quantity System Type & Description

3 AC-25 (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 236 kBtu/h
Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et
Cooling: 1 each - Single Package DX Unit, Capacity = 278 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 9.80 EER, Required Efficiency: 9.80 EER + 9.9 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 8000 CFM 10.0 motor nameplate hp

1 Water Heater (WH)
Gas Storage Water Heater, Capacity: 80 gallons, Input Rating: 40 kBtu/h w/ Circulation Pump
No minimum efficiency requirement applies

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.0.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Justin Bowie, P.E. — Name - Title
Signature
1-18-2022 — Date

Project Title: HTH CHARITY FOUNDATIONS MIDDLE SCHOOL
Data filename: \\JUSTIN-2014\Users\Public\Documents\TIGLAS JOB FILES\2020\20173 Tri City Prep\COMCHECK\20173.cck
Report date: 01/18/22
Page 1 of 9

IECC CALCULATED COOLING LOAD

CALCULATED LOAD:
522.23 MBH SENSIBLE

PROVIDED CAPACITY:
574.02 MBH SENSIBLE

MECHANICAL GENERAL NOTES

SEE ARCHITECTURAL DRAWINGS FOR ANY NECESSARY SCREENING OF EQUIPMENT.

SEE ELECTRICAL DRAWINGS FOR WIRING. MECHANICAL CONTRACTOR SHALL VERIFY AND FIELD COORDINATE WITH ELECTRICAL CONTRACTOR FOR ALL POWER REQUIREMENTS INCLUDING VOLTAGE AND PHASE PRIOR TO ORDERING ANY EQUIPMENT.

CONTRACTOR SHALL PROVIDE TO CITY INSPECTORS THE AIR BALANCE REPORT.

SUPPLY FANS FOR ALL AIR CONDITIONING EQUIPMENT ARE TO BE WIRED TO RUN AT ALL OCCUPIED TIMES, TO PROVIDE FRESH AIR AND MAKEUP AIR REQUIREMENTS.

SEE ARCHITECTURAL DRAWINGS FOR ALL EQUIPMENT/ LOCATIONS.

MECHANICAL FIXTURE LIST

CD-1 TITUS SERIES OMNI CEILING DIFFUSER WITH OBD, ALUMINUM CONSTRUCTION, LAY-IN, ROUND NECK ADAPTOR, 24"X24" MODULE SIZE, OFF-WHITE.

CD-2 TITUS SERIES OMNI CEILING DIFFUSER WITH OBD, STEEL CONSTRUCTION, LAY-IN, ROUND NECK ADAPTOR, 24"X24" MODULE SIZE, OFF-WHITE.

CD-3 TITUS SERIES TMR ROUND CEILING DIFFUSER, OBD, STEEL CONSTRUCTION, SURFACE MOUNTED, OFF-WHITE COLOR.

SWR TITUS SERIES 355 RL SIDEWALL RETURN, SURFACE, STEEL CONSTRUCTION, OBD.

RG-1 TITUS SERIES 350 RL RETURN GRILLE, 3/4" SPACING, LAY-IN, STEEL CONSTRUCTION.

TG-1 TITUS SERIES 350 RL TRANSFER GRILLE, 3/4" SPACING, LAY-IN, STEEL CONSTRUCTION.

TG-2 TITUS SERIES 350 RL TRANSFER GRILLE, 3/4" SPACING, , GYP BOARD, STEEL CONSTRUCTION.

ER-1 TITUS SERIES 3 FL EXHAUST REGISTER, LAY-IN, OBD, ALUMINUM CONSTRUCTION.

OSA CALCULATIONS FOR AC-25a (IMC 2018)

OCCUPANCY	Az	RA	Rp	Pz	CFM
STORAGE	409 SF X	0.12 CFM/SF			44
CORRIDOR	333 SF X	0.06 CFM/SF			20
OFFICE	441 SF X	0.06 CFM/SF +	5.0CFM/ PERSON X	5 PEOPLE/ 1000 SF	84
TEACHER LOUNGE	465 SF X	0.06 CFM/SF +	5.0CFM/ PERSON X	25 PEOPLE/ 1000 SF	66
LIBRARY	732 SF X	0.12 CFM/SF +	10CFM/ PERSON X	25 PEOPLE/ 1000 SF	271
SCIENCE	960 SF X	0.18 CFM/SF +	10CFM/ PERSON X	25 PEOPLE/ 1000 SF	413
CLASSROOMS	2414 SF X	0.12 CFM/SF +	10CFM/ PERSON X	35 PEOPLE/ 1000 SF	585
Az = zone floor area,	Ra = outdoor airflow rate per unit area (IMC E2.4-1, TABLE 403.3)				
Pz = zone population,	Rp = outdoor airflow rate per person (IMC E2.4-1, TABLE 403.3)				
EQN. 4-1: Vbz = RpPz + RaAz	Vbz (UNCORRECTED OSA) =				1508 CFM
EQN. 4-2: Voz = Vbz / Ez	Voz (CORRECTED OSA) =				1635 CFM

OSA PROVIDED: 1100 CFM

OSACALCULATIONS FOR AC-25b (IMC 2018)

OCCUPANCY	Az	RA	Rp	Pz	CFM
MULTIPURPOSE	4443 SF X	0.06 CFM/SF +	5CFM/ PERSON X	100 PEOPLE/ 1000 SF	3541
STAGE	515 SF X	0.06 CFM/SF +	10CFM/ PERSON X	10 PEOPLE/ 1000 SF	482
Az = zone floor area,	Ra = outdoor airflow rate per unit area (IMC E2.4-1, TABLE 403.3)				
Pz = zone population,	Rp = outdoor airflow rate per person (IMC E2.4-1, TABLE 403.3)				
EQN. 4-1: Vbz = RpPz + RaAz	Vbz (UNCORRECTED OSA) =				4051 CFM
EQN. 4-2: Voz = Vbz / Ez	Voz (CORRECTED OSA) =				5064 CFM

OSA PROVIDED: 5100 CFM

OSA CALCULATIONS FOR AC-25c (IMC 2018)

OCCUPANCY	Az	RA	Rp	Pz	CFM
MUSIC	786 SF X	0.06 CFM/SF +	10.0CFM/ PERSON X	35 PEOPLE/ 1000 SF	322
CLASSROOMS	3184 SF X	0.12 CFM/SF +	10CFM/ PERSON X	35 PEOPLE/ 1000 SF	1496
Az = zone floor area,	Ra = outdoor airflow rate per unit area (IMC E2.4-1, TABLE 403.3)				
Pz = zone population,	Rp = outdoor airflow rate per person (IMC E2.4-1, TABLE 403.3)				
EQN. 4-1: Vbz = RpPz + RaAz	Vbz (UNCORRECTED OSA) =				1891 CFM
EQN. 4-2: Voz = Vbz / Ez	Voz (CORRECTED OSA) =				2273 CFM

OSA PROVIDED: 2400 CFM

- plan check corrections 12.30.21

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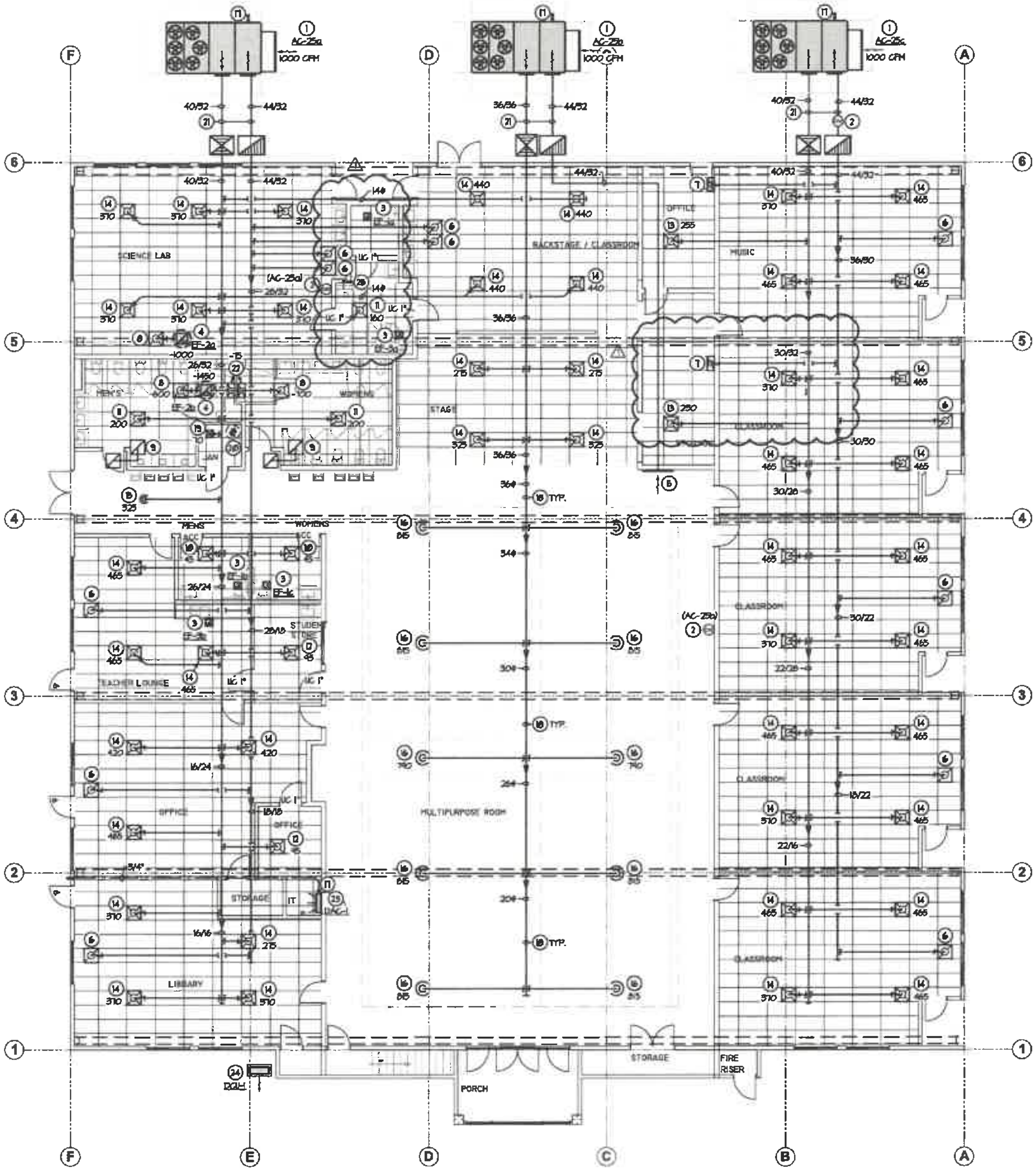
M-0

OF 2 SHEETS



1 MECHANICAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

MECHANICAL KEYNOTES

1 AIR CONDITIONING UNIT (AC-#) MOUNTED WITH SPRING TYPE VIBRATION ISOLATORS WITH FULL SIZE DUCTS AND FLEX CONNECTORS. DUCT SMOKE DETECTOR SHALL BE DOWNSTREAM OF FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS, INTERLOCK WITH AIR MOVING EQUIPMENT TO SHUT UNIT DOWN ON ACTIVATION. BALANCE TO MINIMUM OSA STATED ON PLANS. UNIT TO BE MOUNTED A MINIMUM OF 14" ABOVE GRADE TO PREVENT SNOW ACCUMULATION AROUND UNIT. SEE ARCHITECTURAL PLANS FOR EXACT UNIT MOUNTING LOCATION, DETAILS, ETC.

2 PROVIDE CO2 SENSOR IN ROOM AT BREATHING ZONE OR RETURN DUCTWORK (AS SHOWN) FOR DEMAND CONTROL VENTILATION.

3 EXHAUST FAN (EF-#), IN CEILING WITH FULL SIZE DUCT THRU ROOF TO CAP, MINIMUM OF 10' FROM OUTSIDE AIR INTAKE.

4 EXHAUST FAN (EF-#) ON FACTORY ROOF CURB WITH FULL SIZE DUCT THRU ROOF WITH FLEXIBLE CONNECTION.

5 48" X 48" SHR.

6 24" X 24" RG-1, 22" ROUND NECK.

7 24" X 12" RG-1, 10" ROUND NECK.

8 24" X 24" ER-1, 18" ROUND NECK.

9 24" X 24" TG-1 WITH 24" X 24" TRANSFER DUCT WITH 1/2" DUCT INSULATION TO 24" X 24" TG-2 WITH MINIMUM OF 1 ELBOW.

10 24" X 24" CD-1, 6" ROUND NECK, 4-WAY THROW.

11 24" X 24" CD-1, 8" ROUND NECK, 4-WAY THROW.

12 24" X 24" CD-2, 8" ROUND NECK, 4-WAY THROW.

13 24" X 24" CD-2, 10" ROUND NECK, 4-WAY THROW.

14 24" X 24" CD-2, 12" ROUND NECK, 4-WAY THROW.

15 14"Ø CD-3, 12" BRANCH DUCT.

16 20"Ø CD-3 16" BRANCH DUCT.

17 AIR CONDITIONING COIL, SEE MECHANICAL DRAWINGS, ROUTE 3/4" CONDENSATE TRAP AND VENT WITH DRAIN TO SLOPE AT 1/8" PER FOOT TO 'ELL' DOWN AT 6" AFG TO LANDSCAPE AREA.

18 ALL EXPOSED DUCTWORK TO BE 'SPIRAL-WOUND' WITH 1" ACCOUSTICAL DUCTLINER, SIZE INDICATED ON PLANS IS 'INSIDE CLEAR'. VERIFY EXACT AMOUNT & HEIGHT & COLOR WITH ARCHITECT PRIOR TO CONSTRUCTION.

19 12" X 12" CD-1, 6" ROUND NECK, 4-WAY THROW.

20 CONCENTRIC INTAKE/EXHAUST KIT TO FACTORY ROOF CAP. INSTALL PER MANUFACTURERS REQUIREMENTS.

21 ALL EXPOSED DUCTWORK TO BE INTERNALLY LINED WITH 2" THICK DUCTLINER. DIMENSIONS INDICATED ON PLANS ARE (OUTSIDE DIMENSION/INSIDE CLEAR). TYPICAL FOR ALL DUCTWORK. SEE ARCHITECTURAL ELEVATIONS/DETAILS FOR DUCT ROUTING. UNIT TO BE MOUNTED A MINIMUM OF 14" ABOVE GRADE TO PREVENT SNOW ACCUMULATION AROUND UNIT.

22 24" X 12" ER-1, 8" ROUND NECK.

23 AIR CONDITIONING UNIT (DAC-1) MOUNTED IN WALL PER MANUFACTURERS RECOMMENDATIONS.

24 CONDENSING UNIT (DCU-1) MOUNTED ON CONCRETE PAD WITH SPRING TYPE VIBRATION ISOLATORS. LIQUID/ SUCTION PIPING, SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS, FIELD ROUTE.

25 4" ROUND DRYER VENT IN DRYER VENT BOX UP TO ROOF CAP WITH BACKDRAFT DAMPER. MAXIMUM LENGTH NOT TO EXCEED 35' (WITH 5' PER 90° ELBOW) PER IRC M1502.4.4.1 OR PER MAXIMUM LENGTH AS DETERMINED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS PER IRC M1502.4.4.2. PROVIDE PERMANENT LABEL/TAG INDICATING EQUIVALENT LENGTH OF EXHAUST DUCT PER IRC M1502.4.5.

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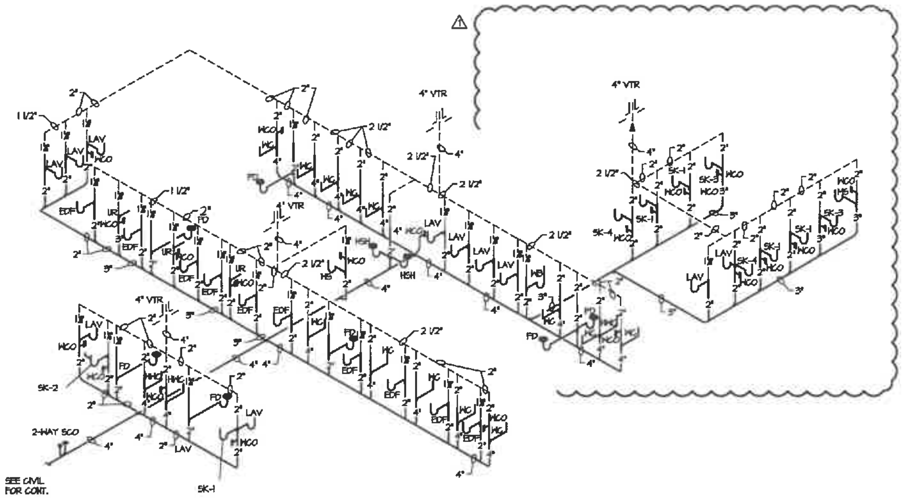
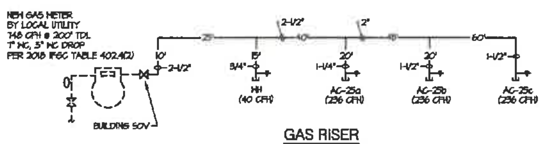
M-1
OF 2 SHEETS



WASTE & VENT RISER
NTS



GAS RISER
NTS

WATER & WASTE CALCULATION (IPC)

MARK	FIXTURE NAME	WATER F.U. #	WATER F.U. F.U.	WATER F.U. Total	WASTE F.U. F.U.	WASTE F.U. Total
WC	WATER CLOSET (FV) (PUB)	16	10	160	4	64
UR	URINAL (FV)	3	5	15	2	6
LAV	LAVATORY (PUB)	10	2	20	1	10
SH	SHOWER (PUB)	2	4	8	2	4
EDF	DRINKING FOUNTAIN	10	0.25	2.5	0.5	5.0
SK	SINK	9	2.0	18.0	2	18
MS	MOP SINK	2	3	6	3	6
WB	WASHER BOX (PUB)	1	3	3	2	2
FD	FLOOR DRAINS	6	-	-	2	12
	NEW FIXTURE UNITS	-	-	248.00	-	124.00
	TOTAL FIXTURE UNITS =			248.00		124.00
	GPM (FLUSH VALVE) =			101.0		

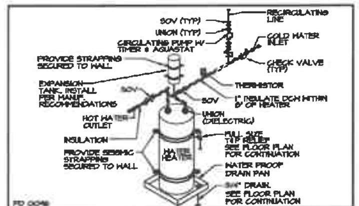
STREET PRESSURE	65 PSI
TOTAL DEVELOPED LENGTH	400 FT
VERTICAL RISE	10 FT

LOSSES

NEW 2" WATER METER	10.00 PSI
RPBP	12 PSI
STATIC LOSS	4.30 PSI
FIXTURE DEMAND	25 PSI
TOTAL LOSSES	51.3 PSI
LOSSES PER 100' OF PIPE	3.43 PSI

LEGEND
F.U. = FIXTURE UNITS
(FV) = FLUSH VALVE
(FT) = FLUSH TANK
(PUB) = PUBLIC
(PRI) = PRIVATE
RPBP = REDUCED PRESSURE BACKFLOW PREVENTER

PER 2018 IPC



WATER HEATER DETAIL W/ RECIRC. PUMP
NTS

PLUMBING FIXTURE LIST

- **HWC** SLOAN WETS 2021.101-1.28 FLOOR MOUNTED, FLUSH VALVE, ADA COMPLIANT WATER CLOSET. ELONGATED BOWL WITH OPEN FRONT SEAT LESS COVER (BEMIS #955CT), VITREOUS CHINA WITH ECOS 8111 AUTOMATIC SENSORS, BATTERY POWERED AND MANUAL OVERRIDE CAPABILITY. SATIN CHROME FINISH.
- **WC** SLOAN WETS 2002.1101-1.28 FLOOR MOUNTED, FLUSH VALVE WATER CLOSET. ELONGATED BOWL WITH OPEN FRONT SEAT LESS COVER (BEMIS #955CT), VITREOUS CHINA WITH ECOS 8111 AUTOMATIC SENSORS, BATTERY POWERED AND MANUAL OVERRIDE CAPABILITY. SATIN CHROME FINISH.
- **UR** SLOAN WEU-1000.1401-0.125 ECOS 1 PINT HI-EFFICIENCY URINAL SYSTEM COMPLETE WITH ECOS BATTERY FLUSH VALVE, ADA COMPLIANT, PROVIDE JR SMITH WALL HANGER.
- **LAV** AMERICAN STANDARD 0355.012 LUCERNE WALL HUNG LAVATORY, VITREOUS CHINA, SYMMONS S-60 GH .5 GPM METERING FAUCET WITH LEONARD #110-LF (ASSE 1070) TEMPERING VALVE, GRID STRAINER, ADA COMPLIANT, JR SMITH HANGER.
- **WSH** SPEAKMAN MODEL SM-3060 COMPLETE HANDICAP/ADA COMPLIANT SHOWER PACKAGE. ANTI-SCALD SHOWER VALVE, MAXIMUM SHOWER HEAD FLOW TO BE 2.5 GPM. PROVIDE JR SMITH 2005 SHOWER DRAIN WITH PROSET 'TRAP GUARD' INSERT.
- **SK-1** ELKAY #LRAD-1116 STAINLESS STEEL 1-COMPARTMENT SINK WITH LKD-2085I3 GOOSENECK FAUCET, METAL HANDLES, LK35 DRAIN, 1.5 GPM FLOW RESTRICTOR. ADA COMPLIANT.
- **SK-2** ELKAY #LR-3322 STAINLESS STEEL 2-COMPARTMENT SINK WITH LKD-2085I3 GOOSENECK FAUCET, METAL HANDLES, LK35 DRAIN, 1.5 GPM FLOW RESTRICTOR. ADA COMPLIANT.
- **SK-3** ELKAY #DRKAD222050 STAINLESS STEEL 1-COMPARTMENT SINK WITH LKD-2085I3 GOOSENECK FAUCET, METAL HANDLES, LK35 DRAIN, 1.5 GPM FLOW RESTRICTOR, AND BRADLEY #S19-210B EYEWASH. ADA COMPLIANT.
- **SK-4** ELKAY #LRAD-1116 STAINLESS STEEL 1-COMPARTMENT SINK WITH LKD-2085I3 GOOSENECK FAUCET, METAL HANDLES, LK35 DRAIN, 1.5 GPM FLOW RESTRICTOR. ADA COMPLIANT. PROVIDE JR SMITH 8760 PLASTER TRAP.
- **EDF** ELKAY MODEL LZ8WSLK ADA COMPLIANT ELECTRIC DRINKING FOUNTAIN WITH FILTERED WATER FILLER, 8.0 GPH OF 50 F WATER AT 80 F INLET TEMPERATURE, 5.0 FLA, 120 V, 1 PHASE. PROVIDE LKAPREZL APRON.
- **WH** RHEEM #PROG50-40N RH67 PDV NATURAL GAS FIRED WATER HEATER, 50 GALLON STORAGE TANK, 40,000 BTU INPUT, 40 GPH RECOVERY RATE AT 90° TEMPERATURE RISE. PROVIDE RRT-12 GALLON EXPANSION TANK. .67 EF.
- **RP** B & G MODEL NBF-22U LEAD FREE BRONZE CIRCULATING PUMP, 120 VOLT, 1 PHASE, .3 AMPS, WITH AG-1/2" AQUASTAT AND TC-1 TIMER.
- **MS** FIAT MODEL MSB-2424 MOP SERVICE BASIN WITH 830-AA SERVICE FAUCET WITH VACUUM BREAKER, SILICONE SEALANT, HOSE AND HOSE BRACKET, MOP HANGER, ALTERNATE STRAINER, AND ALUMINUM BUMPER GUARD.
- **HB** WOODFORD MODEL 65 NON-FREEZE HYDRANT WITH INTEGRAL VACUUM BREAKER HOSE BIBB WITH CHROME PLATED, T-HANDLE KEY.
- **FD** JR SMITH MODEL 2005-A FLOOR DRAIN, WITH PROSET TRAP GUARD INSERT.
- **WHA** JR SMITH MODEL HYDROTROL 5000 SERIES WATER HAMMER ARRESTORS, PROVIDE ACCESS DOOR. JR SMITH #: WHA-A = 5005, WHA-B = 5010, WHA-C= 5020, WHA-D= 5030
- **WB** GUY GRAY MODEL B-200 WASHER BOX, 2" DRAIN OPENING AND 2-3/4" VALVES.

GENERAL NOTES: EXPOSED TRIM AND APPURTENANCES WILL BE CHROME PLATED. PROVIDE LOOSE KEY OR SCREWDRIVER STOPS BALL VALVES AT ALL DOMESTIC WATER CONNECTIONS TO FIXTURES. PROVIDE TRUEBRO HANDI LAV-GUARD KITS AT ALL ADA COMPLIANT LAVS. AIR GAPS TO BE A MINIMUM OF 2 PIPE SIZE DIAMETERS ABOVE RIM OF RECEPTOR.

1 - plan check corrections 12.30.21

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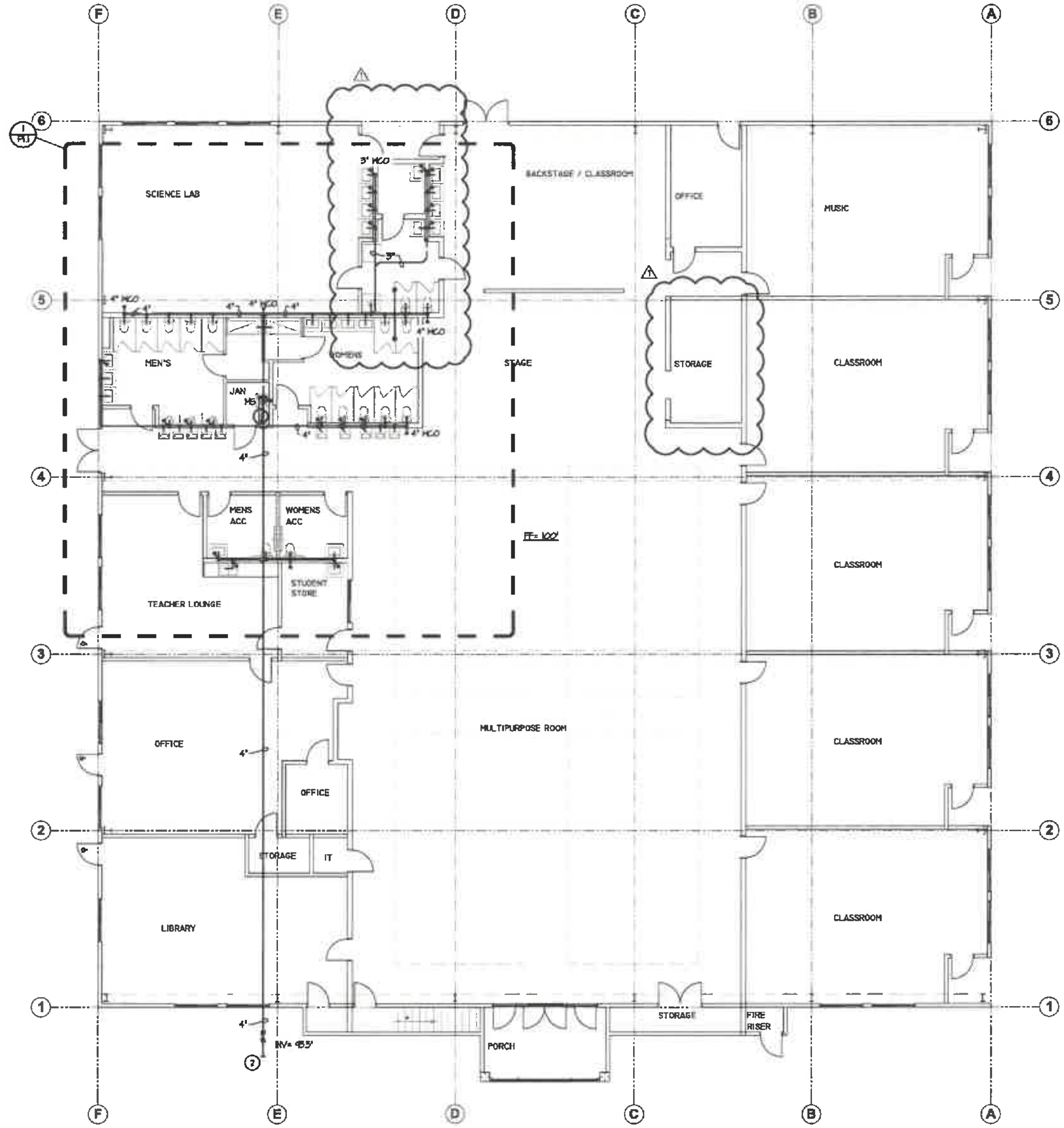
OF 5 SHEETS



1 PLUMBING FLOOR PLAN: WASTE & VENT
SCALE: 1/8" = 1'-0"
NORTH

PLUMBING KEYNOTES

1 3" DCW FROM 2" WATER METER, SEE CIVIL FOR CONTINUATION.
2 4" WASTE, WITH 2-WAY SURFACE CLEANOUT. SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.
3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.
4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED.
5 3/4" DCW DOWN TO HB WITH VB AT 18" AFG.
6 WATER HEATER (WH), 1 1/2" DCW, 1 1/2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT MOP SINK, EXPANSION TANK. PROVIDE WATERPROOF DRAIN PAN WITH 1" DRAIN TO MOP SINK. ROUTE DIRECT INTAKE/VENT TO FACTORY ROOF CAP(S).
7 RECIRCULATION PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURES RECOMMENDATIONS.
8 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.
9 WATER CLOSET (WC), 1 1/2" DCW, 4" W, 2" V.
10 WATER CLOSET (WWC), 1 1/2" DCW, 4" W, 2" V.
11 LAVATORY (LAV), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
12 SINK (SK-1), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
13 SINK (SK-2), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
14 SINK (SK-3), 1/2" DCW, 1" DCW TO EYEWASH, 1/2" DHW, 2" W, 1 1/2" V.
15 SINK (SK-4), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V. PROVIDE PLAQUE ON WALL "PLASTER PRODUCTS".
16 ELECTRIC DRINKING FOUNTAIN (EDF), 1/2" DCW, 2" W, 1 1/2" V. SEE ARCH FOR MOUNTING HEIGHT.
17 URINAL (UR), 3/4" DCW, 2" W, 1 1/2" V.
18 MOP SINK (MS), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.
19 SHOWER (WSH), 1/2" DCW, 1/2" DHW, 2" FD WITH 2" W, 1 1/2" V.
20 2" FD WITH 2" W, 1 1/2" V.
21 WATER HAMMER ARRESTOR (WHA-B), IN LOCKING ACCESS DOOR.
22 WATER HAMMER ARRESTOR (WHA-C), IN LOCKING ACCESS DOOR.
23 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.
24 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.
⚠ 25 WASHING MACHINE BOX (WB), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

NOTE: NOT ALL KEYNOTES MAY BE USED.

⚠ - plan check corrections 12.30.21

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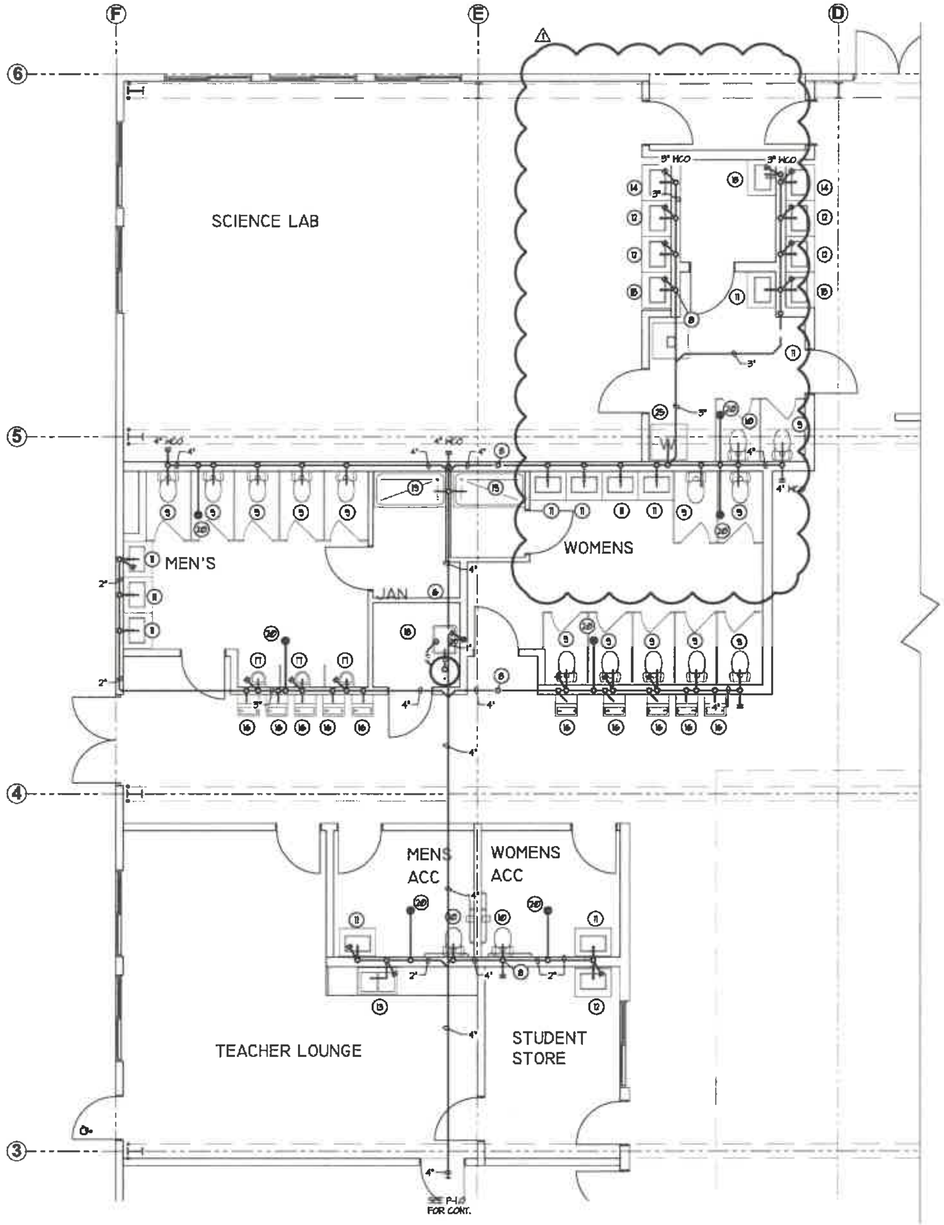

① ENLARGED PLUMBING FLOOR PLAN: WASTE & VENT

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

PLUMBING KEYNOTES

1 3" DCW FROM 2" WATER METER. SEE CIVIL FOR CONTINUATION.

2 4" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.

3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.

4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED.

5 3/4" DCW DOWN TO HB WITH VB AT 18" AFG.

6 WATER HEATER (WH), 1 1/2" DCW, 1 1/2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT MOP SINK. EXPANSION TANK. PROVIDE WATERPROOF DRAIN PAN WITH 1" DRAIN TO MOP SINK. ROUTE DIRECT INTAKE/VENT TO FACTORY ROOF CAP(S).

7 RECIRCULATION PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURES RECOMMENDATIONS.

8 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.

9 WATER CLOSET (WC), 1 1/2" DCW, 4" W, 2" V.

10 WATER CLOSET (HWC), 1 1/2" DCW, 4" W, 2" V.

11 LAVATORY (LAV), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.

12 SINK (SK-1), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.

13 SINK (SK-2), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.

14 SINK (SK-3), 1/2" DCW, 1" DCW TO EYEWASH, 1/2" DHW, 2" W, 1 1/2" V.

15 SINK (SK-4), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V. PROVIDE PLAQUE ON WALL "PLASTER PRODUCTS".

16 ELECTRIC DRINKING FOUNTAIN (EDF), 1/2" DCW, 2" W, 1 1/2" V. SEE ARCH FOR MOUNTING HEIGHT.

17 URINAL (UR), 3/4" DCW, 2" W, 1 1/2" V.

18 MOP SINK (MS), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

19 SHOWER (WSH), 1/2" DCW, 1/2" DHW, 2" FD WITH 2" W, 1 1/2" V.

20 2" FD WITH 2" W, 1 1/2" V.

21 WATER HAMMER ARRESTOR (WHA-B), IN LOCKING ACCESS DOOR.

22 WATER HAMMER ARRESTOR (WHA-C), IN LOCKING ACCESS DOOR.

23 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.

~~24 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.~~

25 WASHING MACHINE BOX (WB), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

NOTE: NOT ALL KEYNOTES MAY BE USED.

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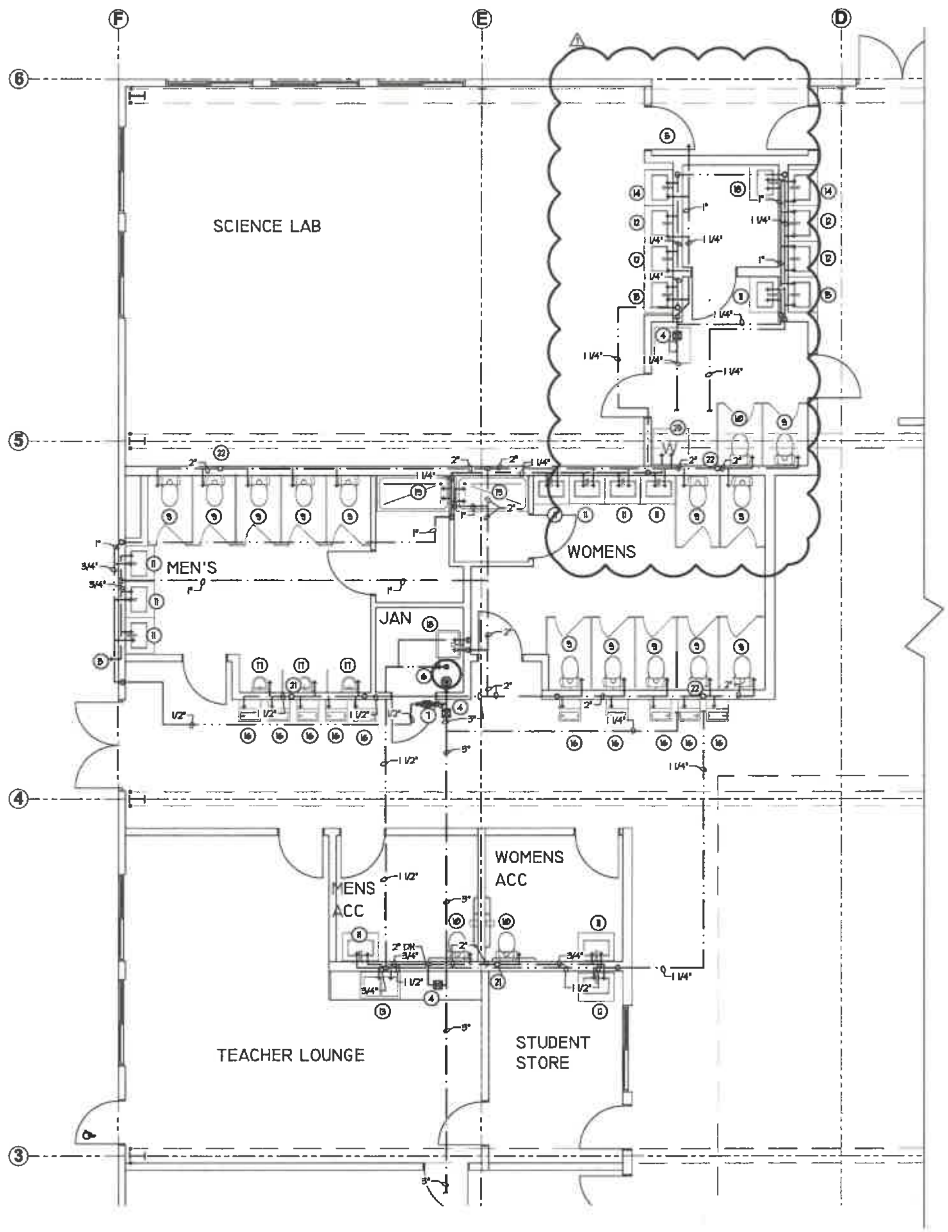

(1) ENLARGED PLUMBING FLOOR PLAN: DOMESTIC WATER
SCALE: 1/4" = 1'-0"

PLUMBING KEYNOTES

1 3" DCW FROM 2" WATER METER, SEE CIVIL FOR CONTINUATION.
2 4" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.
3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.
4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED.
5 3/4" DCW DOWN TO HB WITH VB AT 18" AFG.
6 WATER HEATER (WH), 1 1/2" DCW, 1 1/2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT MOP SINK, EXPANSION TANK. PROVIDE WATERPROOF DRAIN PAN WITH 1" DRAIN TO MOP SINK. ROUTE DIRECT INTAKE/VENT TO FACTORY ROOF CAP(S).
7 RECIRCULATION PUMP (RP) COMPLETE WITH AQUASTAT & TIMER, INSTALL PER MANUFACTURES RECOMMENDATIONS.
8 VENT THRU ROOF (VTR), LOCATE A MINIMUM OF 10' FROM A FRESH AIR INTAKE.
9 WATER CLOSET (WC), 1 1/2" DCW, 4" W, 2" V.
10 WATER CLOSET (HWC), 1 1/2" DCW, 4" W, 2" V.
11 LAVATORY (LAV), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
12 SINK (SK-1), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
13 SINK (SK-2), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.
14 SINK (SK-3), 1/2" DCW, 1" DCW TO EYEWASH, 1/2" DHW, 2" W, 1 1/2" V.
15 SINK (SK-4), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V. PROVIDE PLAQUE ON WALL "PLASTER PRODUCTS".
16 ELECTRIC DRINKING FOUNTAIN (EDF), 1/2" DCW, 2" W, 1 1/2" V. SEE ARCH FOR MOUNTING HEIGHT.
17 URINAL (UR), 3/4" DCW, 2" W, 1 1/2" V.
18 MOP SINK (MS), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.
19 SHOWER (HSH), 1/2" DCW, 1/2" DHW, 2" FD WITH 2" W, 1 1/2" V.
20 2" FD WITH 2" W, 1 1/2" V.
21 WATER HAMMER ARRESTOR (WHA-B), IN LOCKING ACCESS DOOR.
22 WATER HAMMER ARRESTOR (WHA-C), IN LOCKING ACCESS DOOR.
23 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.
24 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.
25 WASHING MACHINE BOX (WB), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

NOTE: NOT ALL KEYNOTES MAY BE USED.

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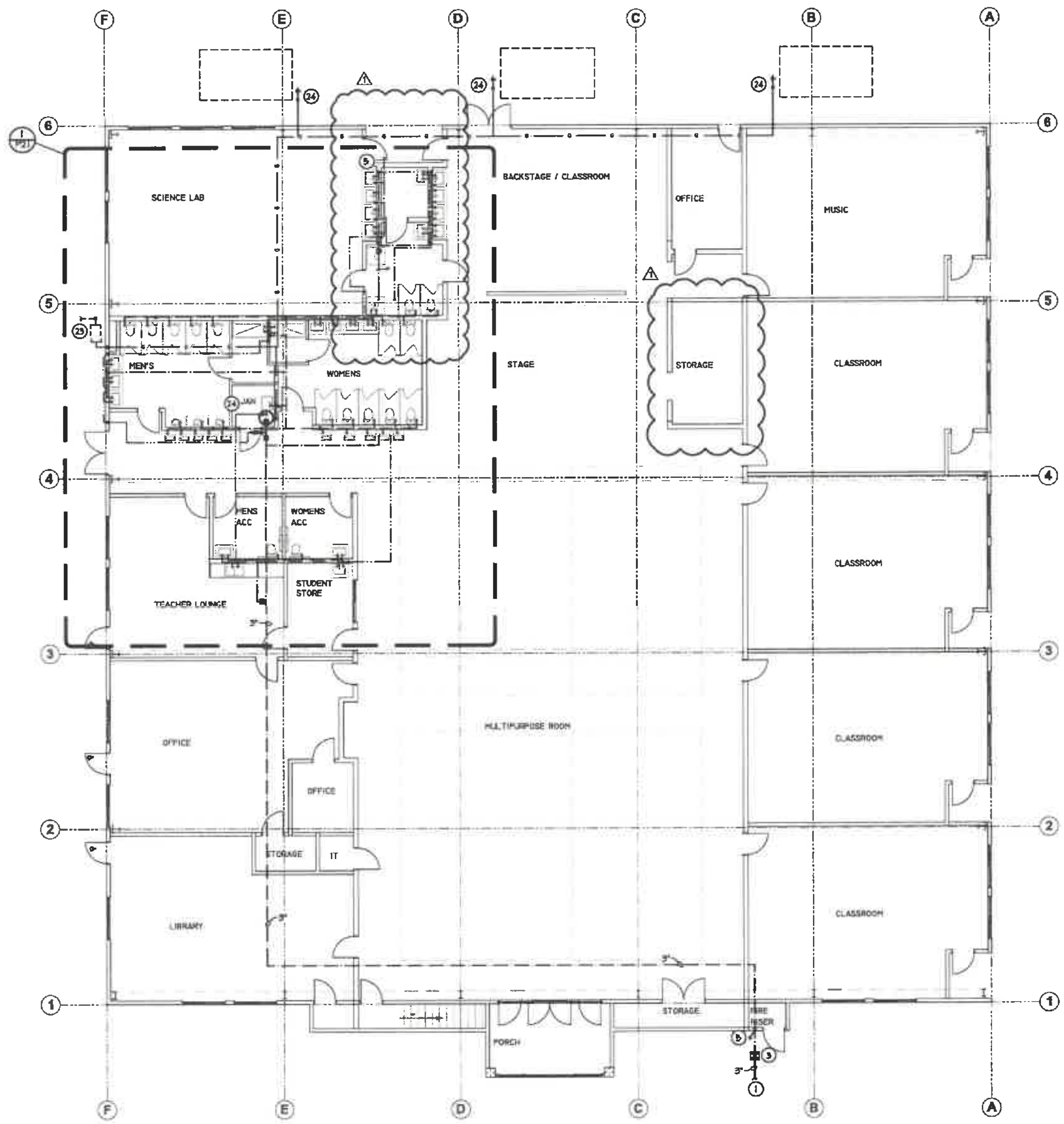
P-2.1
OF 5 SHEETS



PLUMBING FLOOR PLAN: WATER & GAS
SCALE: 1/8" = 1'-0"

NORTH

PLUMBING KEYNOTES

1 5" DCW FROM 2" WATER METER, SEE CIVIL FOR CONTINUATION.

2 4" WASTE, WITH 2-WAY SURFACE CLEANOUT, SLOPE 1/4" PER FOOT. SEE CIVIL DRAWINGS FOR CONTINUATION.

3 SHUT OFF VALVE, (SOV) (FULL PORT BALL VALVE TYPE) IN CONCRETE YARD BOX WITH CAST IRON COVER.

4 SHUT OFF VALVE ABOVE CEILING, (FULL PORT BALL VALVE TYPE) PROVIDE ACCESS DOOR AS REQUIRED.

5 3/4" DCW DOWN TO HB WITH VB AT 18" AFG.

6 WATER HEATER (WH), 1 1/2" DCW, 1 1/2" DHW, PROVIDE HEAT TRAPS ON INLET AND OUTLET, FULL SIZE T & P RELIEF TO 'ELL' AT MOP SINK, EXPANSION TANK. PROVIDE WATERPROOF DRAIN PAN WITH 1" DRAIN TO MOP SINK. ROUTE DIRECT INTAKE/VENT TO FACTORY ROOF CAP(S).

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13 SINK (SK-2), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V.

14 SINK (SK-3), 1/2" DCW, 1" DCW TO EYEWASH, 1/2" DHW, 2" W, 1 1/2" V.

15 SINK (SK-4), 1/2" DCW, 1/2" DHW, 2" W, 1 1/2" V. PROVIDE PLAQUE ON WALL "PLASTER PRODUCTS".

16 ELECTRIC DRINKING FOUNTAIN (EDF), 1/2" DCW, 2" W, 1 1/2" V. SEE ARCH FOR MOUNTING HEIGHT.

17 URINAL (UR), 3/4" DCW, 2" W, 1 1/2" V.

18 MOP SINK (MS), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

19 SHOWER (SHW), 1/2" DCW, 1/2" DHW, 2" FD WITH 2" W, 1 1/2" V.

20 2" FD WITH 2" W, 1 1/2" V.

21 WATER HAMMER ARRESTOR (WHA-B), IN LOCKING ACCESS DOOR.

22 WATER HAMMER ARRESTOR (WHA-C), IN LOCKING ACCESS DOOR.

23 NEW GAS METER BY LOCAL UTILITY, CONTRACTOR SHALL COORDINATE FULLY.

24 PROVIDE GAS COCK, UNION AND DIRT LEG, TYPICAL.

25 WASHING MACHINE BOX (WB), 3/4" DCW, 3/4" DHW, 2" W, 1 1/2" V.

NOTE: NOT ALL KEYNOTES MAY BE USED.

1 - plan check corrections 12.30.21

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P-2.0

OF 5 SHEETS

SPECIFICATIONS

15010 GENERAL PROVISIONS

1. SCOPE: THIS SECTION ESTABLISHES AND DESCRIBES REQUIRED STANDARDS OF QUALITY AND PERFORMANCE FOR PRODUCTS, SYSTEMS AND METHODS ENCOMPASSED BY DIVISION 15000. THIS SECTION ALSO SUMMARIZES THE VARIOUS SYSTEMS TO BE INSTALLED UNDER DIVISION 15000.

15010.1 SPECIAL CONDITIONS

1. THE SPECIFICATIONS AND ACCOMPANYING DRAWINGS ARE INTENDED TO COVER SYSTEMS WHICH WILL FIT THE AVAILABLE SPACE, WHICH WILL NOT INTERFERE WITH THE GENERAL STRUCTURAL DESIGN. CAREFULLY EXAMINE THE DRAWINGS FOR ALL BRANCHES OF WORK AND BE RESPONSIBLE FOR THE PROPER FITTING OF MATERIAL AND APPARATUS INTO THE BUILDING.NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES, OMISSIONS OR QUESTIONS IMMEDIATELY.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO BIDDING. ANY EXTRA EXPENSES AS A RESULT OF FAILURE TO ADEQUATELY REVIEW THE EXISTING CONDITIONS WILL BE BORNE BY THE CONTRACTOR.
3. ALL EQUIPMENT SHALL BE UL OR ETL LISTED.

15010.2 REGULATIONS, CODES AND PERMITS:

GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS, AND PAY ALL TAX FEES AND OTHER COSTS IN CONNECTION WITH WORK. FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL REGULATING AUTHORITIES HAVING JURISDICTION. OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR WORK AND DELIVER SAME TO ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR WORK.

15010.3 COORDINATION OF WORK:

DRAWINGS ARE DIAGRAMMATIC FOR PIPING, CONDUITS AND DUCTWORK THAT IS NOT INDICATED IN DETAIL. SIZES OF PIPING, CONDUITS, AND DUCTWORK AND THEIR LOCATIONS ARE INDICATED AS INSIDE CLEAR DIMENSIONS, BUT IS NOT INTENDED TO SHOW EVERY OFFSET OF FITTING OR EVERY STRUCTURAL DIFFICULTY THAT MAY BE ENCOUNTERED DURING INSTALLATION OF THE WORK. THE ALIGNMENT OF PIPING, CONDUIT, OR DUCTWORK SHALL BE VARIED FROM THAT INDICATED ON THE DRAWINGS WITHOUT EXTRA EXPENSE TO THE OWNER WHERE NECESSARY TO AVOID STRUCTURAL OR MECHANICAL DIFFICULTIES, OR TO AVOID THE WORK OF ANY OTHER TRADES.

15010.4 WORKMANSHIP:

PERFORM LABOR IN A THOROUGH AND COMPLETE WORKMANLIKE MANNER AND WITH ALL REASONABLE RAPIDITY TO THE SATISFACTION OF THE ARCHITECT.

15010.5 EXCAVATION AND BACKFILLING:

PERFORM ALL NECESSARY EXCAVATION, SHORING AND BACKFILLING REQUIRED FOR THE PROPER LAYING OF ALL PIPES AND CONDUITS INSIDE THE BUILDING AND PREMISES, AND OUTSIDE AS MAY BE NECESSARY.

15010.6 ALTERNATES:

1. ALTERNATE FIXTURES AND EQUIPMENT WILL BE ACCEPTED WITH PRIOR WRITTEN APPROVAL FROM THE ENGINEER.
2. ALTERNATE MATERIALS WILL ONLY BE ACCEPTABLE WITH PRIOR WRITTEN APPROVAL OF THE ENGINEER.
3. ADDITIONAL ENGINEERING REQUIREMENTS DUE TO ALTERNATE MATERIALS, FIXTURES OR EQUIPMENT WILL BE PERFORMED AT ENGINEERS STANDARD HOURLY RATES WITH A MINIMUM $250.00 PAYABLE BY CONTRACTOR PRIOR TO PERFORMANCE OF WORK.

15010.7 CUTTING AND PATCHING:

1. CUT COMPLETED CONSTRUCTION WORK ONLY IF SLEEVES, OPENINGS, CHASES, ETC., WERE INADVERTENTLY OMITTED AND ONLY WITH THE SPECIFIED APPROVAL OF THE ARCHITECT. IN NO CASE SHALL REINFORCING STEEL BE CUT WITHOUT THE SPECIFIC PERMISSION OF THE ARCHITECT.
2. WHERE CUTTING AND PATCHING OCCURS IN STREETS, SIDEWALKS, ALLEYS, AND THE LIKE, COOPERATE FULLY WITH THE OWNER AND MUNICIPAL AUTHORITIES TO MAINTAIN SAFE AND REQUIRED TRAFFIC FLOWS. NO EXTRAS WILL BE ALLOWED FOR TRAFFIC PATROLMEN OR OVERTIME WORK IF SUCH IS REQUIRED BY CITY, COUNTY, OR STATE OFFICIALS. PATCHING SHALL MEET ALL REQUIREMENTS OF MUNICIPAL OR OTHER GOVERNMENT BODIES.

15010.8 INSTALLATION INSTRUCTIONS:

1. ALL EQUIPMENT SHALL BE UL LISTED & INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. SHOULD ANY VARIANCE BETWEEN PLANS AND SPECIFICATIONS OCCUR WITH THESE INSTRUCTIONS, THE ARCHITECT OR ENGINEER SHOULD BE CONTACTED IMMEDIATELY SO THAT ANY VARIATIONS IN INSTALLATION CAN BE KNOWN BY ALL PARTIES CONCERNED.
2. UNLESS OTHERWISE NOTED ON THE EQUIPMENT SCHEDULE, ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON VIBRATION ISOLATORS TO PREVENT THE TRANSMISSION OF VIBRATION AND MECHANICALLY TRANSMITTED SOUND TO THE BUILDING STRUCTURE. VIBRATION ISOLATORS SHALL BE SELECTED IN ACCORDANCE WITH THE WEIGHT DISTRIBUTION SO AS TO PRODUCE REASONABLY UNIFORM DEFLECTION.
3. INSTRUCT OWNER IN THE PROPER OPERATION AND MAINTENANCE OF EQUIPMENT. PROVIDE OWNER WITH BOUND OPERATING AND MAINTENANCE MANUALS, INCLUDE PARTS LIST, MAINTENANCE SCHEDULE, AND NAME, ADDRESS, AND PHONE NUMBER OF LOCAL PRODUCT REPRESENTATIVE.
4. PAINT INSIDE OF ALL DUCTWORK EXPOSED TO VIEW THRU GRILLES, REGISTERS & DIFFUSERS FLAT BLACK.
5. PROVIDE START-UP BY MANUFACTURER.

15010.9 GUARANTEES

EACH COMPLETED SYSTEM SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL GUARANTEE EACH SYSTEM IN WRITING TO BE FREE OF DEFECTS OF MATERIAL AND WORKMANSHIP AND TO PERFORM SATISFACTORILY UNDER ALL CONDITIONS OF LOAD OR SERVICE. THE GUARANTEES SHALL PROVIDE THAT ANY ADDITIONAL CONTROLS, PROTECTIVE DEVICES, OR EQUIPMENT WILL BE PROVIDED AS NECESSARY TO MAKE THE SYSTEMS OR EQUIPMENT OPERATE SATISFACTORILY, THAT ANY FAULTY MATERIALS OR WORKMANSHIP WILL BE REPLACED OR REPAIRED, AND THAT ON FAILURE OF THE GUARANTOR TO DO THE ABOVE AFTER WRITTEN NOTICE FROM THE OWNER, THE OWNER MAY HAVE THE WORK DONE AT THE COST OF THE GUARANTOR. PROVIDE EXTENDED 5 YEAR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS AND PARTS.

15020 BASIC MATERIALS AND METHODS

SCOPE: THIS SECTION SETS FORTH PRODUCTS AND METHODS OF INSTALLATION FOR PLUMBING, HEATING, VENTILATION AND AIR CONDITIONING.

15020.1 SLEEVES:

WHERE PIPING, DUCTWORK, STACKS, ETC., PASSES THROUGH SUCH BUILDING ELEMENTS AS WALLS, FLOORS, ROOFS, FOOTINGS, ETC., PROVIDE SLEEVES UNLESS INDICATED OTHERWISE.

15020.2 HANGERS AND SUPPORTS:

SUPPORT HANGERS OF HORIZONTAL PIPE WITH VERTICALLY ADJUSTABLE HANGERS OR MALLEABLE SWIVEL RING OR WROUGHT STEEL CLEVIS TYPE HANGER SUSPENDED ON THREADED STEEL ROD HANGERS, EQUAL TO FEE AND MASON FIG. 194 AND FIG. 234 RESPECTIVELY WITH CLEVIS TYPE UTILIZED FOR LARGER PIPING.

15020.3 VALVES:

ALL VALVES SHALL BE CRANE, JENKINS, STOCKHAM OR MUELLER, DESIGNED FOR 125 PSI MINIMUM WORKING PRESSURE. ALL WATER VALVES SHALL BE FULL PORT BALL 1/4 TURN VALVES UNLESS OTHERWISE SPECIFIED OR REQUIRED FOR SPECIAL INSTALLATION OF FLOW CONTROL.

15030 INSULATION:

SCOPE: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO INSTALL INSULATION MATERIAL TO DUCTWORK, PIPES AS INDICATED ON DRAWINGS AND AS SPECIFIED HEREIN. THIS SECTION SETS FORTH PRODUCTS AND METHODS OF INSTALLATION FOR PLUMBING, AIR CONDITIONING, HEATING, AND VENTILATION SYSTEMS. FLAME-SPREAD INDEX OF LESS THAN 25 AND SMOKE DEVELOPED RATING OF LESS THAN 50.

15030.1 DUCT INSULATION:

1. ALL CONCEALED SUPPLY AND RETURN DUCT WORK SHALL BE EXTERNALLY WRAPPED WITH 2" THICK - 2 PCF DENSITY FIBERGLASS (FOIL BACKING), WIRING IN PLACE WITH 18 GAUGE GALVANIZED WIRE, 18" O.C. (R-8)
2. EXTERIOR DUCTWORK TO BE LINED WITH 2" ACOUSTICAL DUCT LINER (3 PCF) (R-8).
3. LINE DUCTWORK WITHIN 10' OF FAN W/ 2" ACOUSTICAL DUCT LINER (3 PCF) (R-8).

15030.2 PIPE INSULATION

1. INSULATE CONDENSATE DRAIN PIPING WITH AS/ASL II 1" THICK FIBERGLASS PIPE INSULATION (R-3) MANVILLE PIPE INSULATION OR OWENS-CORNING PIPE INSULATION. ALL INSULATION SHALL BE INSTALLED AS DESCRIBED HEREIN AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE TRADE PRACTICES AND MANUFACTURERS RECOMMENDATIONS.
2. INSULATE FIRST 8' OF DOMESTIC COLD WATER SUPPLY TO WATER HEATER/STORAGE TANKS AND 100% OF DOMESTIC HOT/ RECIRCULATING WATER PIPING WITH AS/ASL II 1" THICK FIBERGLASS PIPE INSULATION (R-4) MANVILLE PIPE INSULATION OR OWENS-CORNING PIPE INSULATION. ALL INSULATION SHALL BE INSTALLED AS DESCRIBED HEREIN AND SHALL BE APPLIED IN STRICT ACCORDANCE WITH THE TRADE PRACTICES AND MANUFACTURERS RECOMMENDATIONS.
3. REFRIGERANT PIPING (SUCTION) 1", (R4) CLOSED CELLULAR FOAM RUBBER. ALL EXTERIOR PIPING TO BE FULLY PROTECTED AND SHIELDED FROM U.V. WITH ALUMINUM JACKET.

15040 WATER SYSTEMS

SCOPE: DETERMINE IN ADVANCE OF CONSTRUCTION, THE LOCATION OF ALL PIPING SLEEVES, HANGERS, FLOW LINE ELEVATION, ETC. INSTALL PIPING SUBSTANTIALLY AS INDICATED, PARALLEL WITH THE BUILDING WALLS, UNLESS INDICATED OTHERWISE. PROVIDE PRV WHERE INCOMING PRESSURE EXCEEDS 80 PSI.

15040.1 DOMESTIC WATER PIPING:

1. DOMESTIC WATER PIPING (ABOVE GROUND): WATER PIPING SHALL BE TYPE "L" COPPER.
2. DOMESTIC WATER PIPING (BELOW GROUND): WATER PIPING SHALL BE TYPE "K" (NO JOINTS) WROUGHT COPPER WITH TWO COATS OF POLYVINYL BLACK TAPE. FITTINGS SHALL BE CAST BRASS OR WROUGHT COPPER SUITABLE FOR SWEAT OR BRAZED CONNECTIONS. SOLDER SHALL BE 95-5 (95% TIN AND 5% ANTIMONY), FOR PIPES 1-1/2" AND SMALLER. USE 1030 DEGREE SILVER SOLDER FOR ALL OTHER SIZES. CLEAN JOINTS AND APPLY NON-CORROSIVE FLUX BEFORE SOLDERING. ALL COPPER PIPE INSTALLATION SHALL MEET ASTM B-88, ASTM B-813, AND ASTM B-828 SPECIFICATIONS.
3. HOT WATER TO BE LEFT FITTING AT ALL LOCATIONS.
4. PROVIDE DIELECTRIC INSULATOR ON ALL DISSIMILAR METALS.

15040.2 TEST AND INSPECTION:

1. DOMESTIC WATER PIPING SHALL BE PRESSURE TESTED AND PROVEN TIGHT WITH A MINIMUM OF 100 PSI HYDROSTATIC TEST. PRIOR TO SETTING FIXTURES, FLASH CIRCUITS, TEST, THEN BACKFILL.
2. NOTIFY ARCHITECT PRIOR TO TESTING. FINAL APPROVAL SHALL BE BY THE CITY INSPECTOR.

15050 WASTE WATER SYSTEMS

SCOPE: DETERMINE IN ADVANCE OF CONSTRUCTION LOCATION OF ANY AND ALL EXISTING WASTE PIPING UNDERGROUND ON SITE, AND IN THE ADJOINING STREETS. PIPING WILL BE AS INDICATED AND PARALLEL WITH BUILDING UNLESS OTHERWISE DIRECTED. FURNISH AND INSTALL A COMPLETE SANITARY WASTE SYSTEM, INCLUDING CONNECTION TO CITY SEWERS AND BUILDING PLUMBING FIXTURES.

15050.1 SOIL AND WASTE INSTALLATION:

1. BURY ALL EXTERIOR SOIL LINES A MINIMUM OF 18" BELOW FINISHED GRADE.
2. SLOPE HORIZONTAL SOIL AND WASTE PIPES UNDER BUILDING 1/4" PER FOOT. SLOPE SHALL BE UNIFORM AND FREE OF DIPS, TRAPS, ETC.
3. ALL VENTS TO BE LOCATED A MINIMUM OF 10' FROM ANY OUTSIDE AIR INTAKE.
4. NOTIFY ENGINEER IMMEDIATELY IF UPPER MANHOLE RIM IS ABOVE FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY.
5. UNDERGROUND NONMETALLIC SANITARY DRAINAGE PIPING SHALL BE INSTALLED WITH INSULATED COPPER TRACER WIRE PER LOCAL CODE.

15050.2 PIPING:

1. STANDARD WEIGHT NO-HUB CAST IRON COATED INSIDE AND OUT.
2. NO-HUB CAST IRON FITTINGS.

15050.3 TESTS AND INSPECTIONS

1. TEST SEWER, WASTE AND VENT PIPING UNDER A WATER PRESSURE EQUIVALENT TO THE HEIGHT OF THE HIGHEST VENT FOR NO LESS THAN 6 HOURS.
2. NOTIFY THE ARCHITECT PRIOR TO TESTING. APPROVAL WILL BE BY THE ARCHITECT, CITY INSPECTOR OR BOTH AS DIRECTED.

15055 OTHER PIPING SYSTEMS

1. CONDENSATE DRAIN (CD) & DRAIN (D) PIPING SHALL BE COPPER TYPE 'M' HARD DRAWN PIPE TRAPPED & VENTED EQUIPMENT, SLOPE 1/8"/FT, PROVIDE CLEANOUT CAP AT ENDS OF PIPE.
2. A. FUEL GAS PIPING ABOVE GROUND 2" AND SMALLER BLACK STEEL SCHEDULE 40 W/ CLASS 150 MALLEABLE IRON THREADED FITTINGS. PROVIDE SUPPORT EVERY 6'.

   B. FUEL GAS PIPING ABOVE GROUND 2 1/2" AND LARGER, BLACK STEEL SCHEDULE 40 W/ WROUGHT STEEL BUTTWELDED FITTINGS. PROVIDE SUPPORT EVERY 10'.
3. GAS FIRED CONDENSATE (CD) PIPING SHALL BE PVC PIPE WITH TRAP, SLOPE 1/8"/FT, PROVIDE CLEANOUT CAP AT ENDS OF PIPE. CONDENSATE PIPING SHALL BE ROUTED THRU A NEUTRALIZATION SYSTEM BEFORE BEING DISCHARGED.

15060 PLUMBING SPECIALTIES:

SCOPE: PROVIDE NEW FIXTURES, DRAINS, AND OTHER PLUMBING EQUIPMENT AS SPECIFIED HEREIN AND ON PLANS AND INSTALL TO OPERATE AS INTENDED.

15060.1 CLEANOUTS:

1. INTERIOR FINISHED FLOORS OR SIDEWALKS.
2. CONCRETE AND TILE FLOORS: "ZURN" A-1400-2 WITH SCORIATED NICKEL BRONZE TOP.
3. INTERIOR FINISHED WALLS: "ZURN" Z-1445-1.
4. OUTSIDE YARD CLEANOUTS: "ZURN" Z-1450-6 WITH 12"X12" POURED CONCRETE PAD AT GRADE.

NOTE: PROVIDE ALL CLEANOUTS WITH HEAVY THREADED BRONZE PLUGS.

15070 AIR DISTRIBUTION

WORK SPECIFIED HEREIN: FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY TO INSTALL THE AIR DISTRIBUTION SYSTEM AND RELATED ITEMS IN ACCORDANCE WITH LATEST EDITION "SMACNA" STANDARDS AND/OR LOCAL CODE REQUIREMENTS AS SPECIFIED HEREIN AND INDICATED ON PLANS. (WHICHEVER IS MORE STRINGENT) IN ACCORDANCE WITH UL181A OR 181B. FLEXIBLE DUCT WILL BE CLASS I (UL 181). ALL MATERIALS, PRODUCTS AND SEALING TO BE IN ACCORDANCE WITH UL 181A OR UL 181B.

15070.1 DUCTWORK:

THE DUCTWORK SHALL BE FABRICATED AND INSTALLED BY SKILLED MECHANICS IN A WORKMAN LIKE MANNER USING THE BEST PRACTICES OF THE TRADE AND BE MADE OF GALVANIZED SHEET METAL "DUCT SHEET" SIZED FROM THE FOLLOWING TABLE:

DIAMETER OR GREATEST DUCT DIMENSION	U.S. GAUGE FOR GALVANIZED	1"X 18 GA DUCT SUPPORT	TRAVERSE JOINTS AND GRAZING
UP TO 12"	24	10' ON CENTER	S-SLIP DRIVE SLIP 1" POCKET LOCK ON 8' CENTER
UP TO 30"	22	10' ON CENTER	S-SLIP, 1" POCKET LOCK ON 8' CENTERS

15070.2 HVAC DUCT SMOKE DETECTORS:

IN AIR MOVING SYSTEMS SUPPLYING AIR IN EXCESS OF 2000 CFM TO AN ENCLOSED SPACE, PROVIDE LISTED, COMPATIBLE SMOKE DETECTORS MOUNTED RIGIDLY IN THE DUCT IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS TO AUTOMATICALLY SHUT OFF THE SYSTEM WITHIN 30 SECONDS BY INTERRUPTING THE POWER SOURCE OF THE AIR MOVING EQUIPMENT. DUCT DETECTOR SHALL ACTIVATE A VISIBLE AND AUDIBLE SIGNAL NORMALLY OCCUPIED LOCATIONS. WHERE FIRE DETECTION OR ALARM SYSTEMS ARE PROVIDED, THE SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEMS. SMOKE DETECTORS SHALL BE READILY ACCESSIBLE INCLUDING ACCESS DOORS, AND SHALL BE PERMANENTLY LABELED. PROVIDE L.E.D. INDICATOR LIGHT @ CEILING UNDER THE PROTECTED UNIT. INSTALL IN ACCORDANCE WITH 2012 IMC, SECTION 606 AND NFPA 72.

15070.3 HVAC IDENTIFICATION:

PROVIDE A SECURELY FASTENED NAME PLATE OF 1/16" THICK BLACK BAKELITE WITH ENGRAVED WHITE CORE LETTERS AND 4 EDGE BEVEL, 2 1/2"X 3/4" PERMANENTLY IDENTIFYING EACH UNIT AND AREA SERVED.

15070.4 AIR BALANCE:

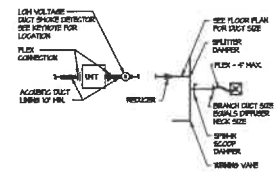
PROVIDE COMPLETE AIR BALANCE BY INDEPENDENT AABC OR NEBB CONTRACTOR AND PROVIDE REPORT TO OWNER AND ENGINEER, AND FOR REVIEW BY CITY IN ACCORDANCE WITH IMC 403.3.4.

15080 CONTROL:

WORK SPECIFIED HEREIN: FURNISH ALL LABOR, MATERIALS, EQUIPMENT, AND SERVICES TO INSTALL A COMPLETE ELECTRICAL CONTROL SYSTEM AS SPECIFIED HEREIN, AND AS SHOWN ON PLANS.

TYPICAL SYMBOLS LIST

NOTE: NOT ALL MAY APPLY



DUCT CONSTRUCTION STANDARD

Symbol	Description
	DUCT UP / DOWN
	EVAPORATIVE COOLER WALL SWITCH
	EXHAUST
L/S	LIQUID SUCTION LINES
	RETURN GRILLE
	SUPPLY DIFFUSER (CD) 4-WAY THROW CFM
	SUPPLY DIFFUSER (CD) 3-WAY THROW CFM
	SUPPLY DIFFUSER (CD) 2-WAY THROW CFM
T	THERMOSTAT MOUNTED @ +4'-0" AFF
E	EXISTING
E/R	EXISTING TO BE RELOCATED
R	RELOCATED
D	DEMOLITION OF EXISTING FIXTURE
N	NEW, MATCH EXISTING
FBO	FURNISHED BY OTHERS
CD	CONDENSATE DRAIN (CD)
D	DRAIN (D)
	DRAIN VALVE AT 4'-0" AFF WITH HOSE END
CW	EXISTING COLD WATER
HW	EXISTING HOT WATER
S	EXISTING SOIL/WASTE
V	EXISTING VENT PIPING
	DOMESTIC COLD WATER (DCW)
	DOMESTIC HOT WATER (DHW)
	HOT WATER RETURN (HWR)
TW	TEMPERED WATER (TW)
	HOSE BIBB WITH VACUUM BREAKER (HB W/ VB)
	GAS COCK & DIRT LEG
G	GAS PIPING
	POINT OF CONNECTION
	PIPE DOWN
	PIPE "T" DOWN
	PIPE UP
	SHUT-OFF VALVE (SOV)
	SHUT-OFF VALVE IN CONCRETE YARD BOX WITH CAST IRON COVER
	SHUT-OFF VALVE ABOVE CEILING WITH ACCESS PANEL
	SOIL/WASTE
GW	GREASY WATER
	SURFACE CLEAN OUT (SCO)
	2-WAY SURFACE CLEAN OUT (SCO)
	UNION
	VENT PIPING (V)
	VENT THRU ROOF (VTR) LOCATE 10' FROM FRESH AIR SOURCE
	WALL CLEAN OUT (WCO)

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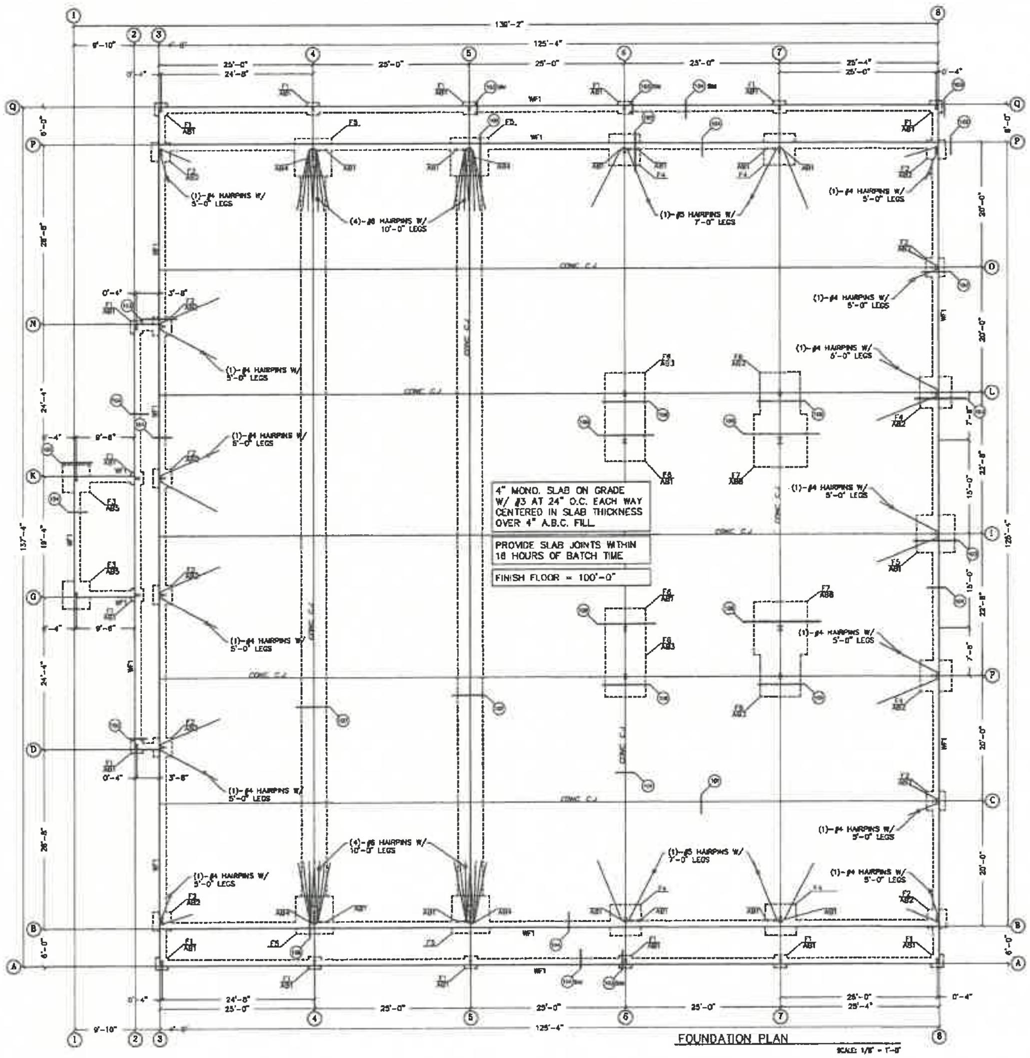
MPS

OF 1 SHEET



FOUNDATION PLAN NOTES

1. VERIFY ALL DIMENSIONS WITH METAL BUILDING DRAWINGS.
2. ALL SCHEDULED MARK DESIGNATIONS MAY NOT NECESSARILY BE FOUND ON THIS PLAN. SCHEDULES ARE TYPICAL TO THE PROJECT.
3. THE DEPTH OF FOOTING DIMENSION INDICATED IN THE G.S.N. IS A MINIMUM. FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE SOILS REPORT AND OTHER TRADES TO INSURE THAT THESE MINIMUMS ARE SUFFICIENT FOR THE WORK. SEE TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS.
4. WF1, WF2, ETC. – AS SHOWN ON PLAN INDICATES A CONTINUOUS WALL FOOTING. SEE WALL FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
5. F1, F2, ETC. – AS SHOWN ON PLAN INDICATES A CONCRETE FOOTING. SEE FOOTING SCHEDULE FOR ADDITIONAL INFORMATION.
6. AB1, AB2, ETC. – AS SHOWN ON PLAN INDICATES THE ANCHORS FOR THE PRE-ENGINEERED COLUMNS. SEE THE PRE-ENGINEERED COLUMN SCHEDULE FOR MORE INFORMATION.
7. CONC. C.J. – AS SHOWN ON PLAN INDICATES LOCATION OF EITHER A KEYED OR A SAW CUT CONTROL JOINT IN THE SLAB ON GRADE AT CONTRACTOR'S OPTION. SEE GENERAL STRUCTURAL NOTES AND DETAIL 101
8. VERIFY EXACT SIZE AND LOCATION OF DEPRESSED AND/OR RAISED SLABS WITH ARCHITECTURAL DRAWINGS.
9. FOR SIDEWALK LOCATION, SEE ARCHITECTURAL DRAWINGS.

Crowther Engineering, LLC
structural engineering - since 2007

EXPIRES 12/31/2022

PROJECT: GARY SMITH MB FOUNDATION
3080 CENTERPOINTE EAST
PRESCOTT, AZ
CLIENT: HEADWATERS ARCHITECTURE PC

FOUNDATION PLAN

S2.0

GENERAL STRUCTURAL NOTES

BUILDING CODE:

LOADS:

FOUNDATION NOTES:

THE SOIL DESIGN VALUES FOR THE FOUNDATION ARE:

CONCRETE:

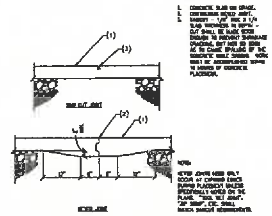
REINFORCING STEEL:

STRUCTURAL STEEL:

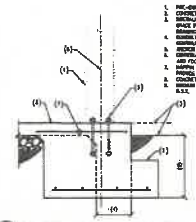
PRE-ENGINEERED BUILDING DESIGN CRITERIA:

GENERAL REQUIREMENTS:

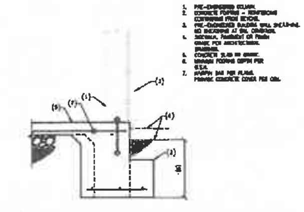
TYPE OF WORK	REQUIRED	REMARKS
SOIL BEARING SUBGRADE	YES	[illegible]
SLABS ON GRADE	NO	[illegible]
CONCRETE FOUNDATIONS	NO	[illegible]
BOLTS IN CONCRETE	YES	PERIODIC



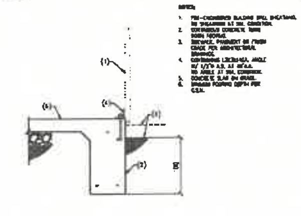
101 CONTROL JOINTS IN CONCRETE SLAB ON GRADE



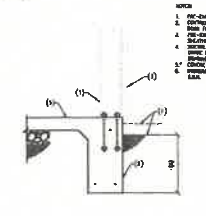
102 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING



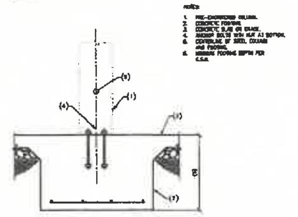
103 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING
SIM. AS NOTED



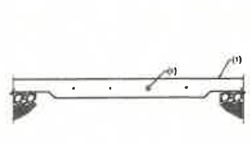
104 PRE-ENGINEERED BUILDING AT CONCRETE FOOTING
SIM. AS NOTED



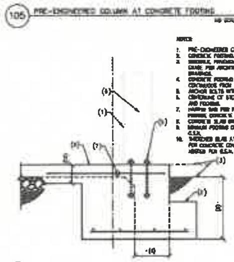
105 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING



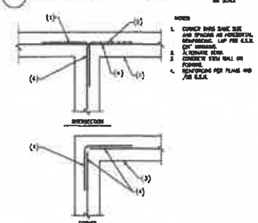
106 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING



107 THICKENED CONCRETE SLAB ON GRADE



108 PRE-ENGINEERED COLUMN AT CONCRETE FOOTING



T1 PLAN - CORNER REINFORCING IN CONCRETE FOOTING AND/OR STEM WALL

CONCRETE FOOTING (F) SCHEDULE

FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS.

MARK	DIMENSIONS HEIGHT	WIDTH	LENGTH	FOOTING REINFORCING	REMARKS
F1	12"	2'-0"	2'-0"	(3)-#4 EACH WAY	---
F2	12"	3'-0"	3'-0"	(3)-#4 EACH WAY	---
F3	24"	4'-6"	4'-6"	(8)-#6 EACH WAY	---
F4	12"	5'-0"	5'-0"	(5)-#5 EACH WAY	---
F5	12"	6'-0"	6'-0"	(6)-#5 EACH WAY	---
F6	24"	6'-6"	6'-6"	(9)-#6 EACH WAY	---
F7	24"	8'-6"	8'-6"	(11)-#5 EACH WAY	---

WALL FOOTING (WF) SCHEDULE

FOR CONSTRUCTION ABOVE FOOTING, SEE DETAILS.

TURNDOWN FOOTING

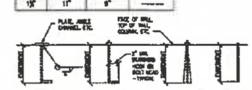
MARK	DIMENSIONS HEIGHT	WIDTH	FOOTING REINFORCING	FOOTING TYPE
WF1	24"	12"	1-#4 CONT. @ TOP 2-#4 CONT. @ BOT	TURNDOWN FOOTING

PRE-ENGINEERED COLUMN (AB) SCHEDULE

TOP OF SLAB
TYP. TACK WELD WASHER
TYPE 1
TYPE 2

MARK	DESIGNATION	BASE ANCHORAGE	EMBED
AB1	PRE-ENGINEERED BUILDING COLUMN	(4)-3/4"ø X 13" LONG TYPE 1 ANCHOR BOLTS	8" MIN.
AB2	PRE-ENGINEERED BUILDING COLUMN	(4)-3/4"ø X 15" LONG TYPE 1 ANCHOR BOLTS	10" MIN.
AB3	PRE-ENGINEERED BUILDING COLUMN	(4)-3/4"ø X 16" LONG TYPE 1 ANCHOR BOLTS	11" MIN.
AB4	PRE-ENGINEERED BUILDING COLUMN	(12)-3/4"ø X 17" LONG HEAVY HEX BOLT, F1554 GR. 36	12" MIN.
AB5	PRE-ENGINEERED BUILDING COLUMN	(4)-3/4"ø X 25" LONG TYPE 1 ANCHOR BOLTS	20" MIN.
AB6	PRE-ENGINEERED BUILDING COLUMN	(4)-1"ø X 15" LONG TYPE 1 ANCHOR BOLTS	8" MIN.

BOLT DIAMETER	VERT BOLT EMBEDMENT LENGTH	HORIZ BOLT EMBEDMENT LENGTH	POWDER STUD FILLET WELD SIZE, "X"
1/2"	6"	4"	1/4"
5/8"	6"	4"	3/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1¼"	10"	8"	-----
1½"	11"	9"	-----



T2 TYPICAL ANCHOR, ANCHOR BOLT AND EXPANSION ANCHOR SCHEDULE

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STEVEN BLAIR CROWTHER
EXPIRES 12/31/2022

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PRESCOTT, AZ

HEADWATERS ARCHITECTURE PC

G.S.N. AND DETAILS
PLAN SCHEDULES

S1.0