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ADDENDUM

ADDENDUM No.	4	GMCa JOB #: 202113 TDH
ISSUE DATE:	04.25.24	SBC #: 364/011-05-2021
PROJECT:	Tennessee Tech University Derryberry Hall – Building Upgrades – Phase I	1 William L. Jones Drive Cookeville, TN 38505
OWNER:	Tennessee Tech University	1 Bridgestone Park, 3rd Floor Nashville, TN 37214
ARCHITECT:	Gilbert McLaughlin Casella architects	2305 Kline Ave, Suite 200 Nashville, TN 37211

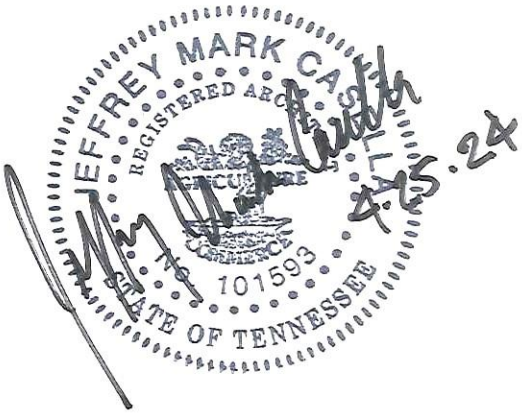
The original Contract Documents dated 03.08.24, and related addenda for the above-mentioned project are hereby amended. The work reflected in this addendum is to be incorporated into the proposed Contract Sum and Time as if originally issued.

This addendum consists of this 2 page summary outline and the following attachments (11 total pages):

- Drawing - COVER (30"x42" format, 1 sheet)
- Drawing - INDEX (30"x42" format, 1 sheet)
- Drawing - S0.1 – General Notes (30"x42" format, 1 sheet)
- Drawing - S1.2 – Third Floor Framing Plan & Details (30"x42" format, 1 sheet)
- Drawing - S1.3 – Fourth Floor & Attic Framing Plan (30"x42" format, 1 sheet)
- Drawing - M0.1 – Mechanical Legend & Notes (30"x42" format, 1 sheet)
- Drawing - M0.2 – Mechanical Schedules (30"x42" format, 1 sheet)
- Drawing - M3.3 – Mechanical Details (30"x42" format, 1 sheet)
- Drawing - FP0.3 – Fire Protection Notes (30"x42" format, 1 sheet)

The Addendum is organized into the following three parts:

PART I:	CLARIFICATIONS
PART II:	PROJECT MANUAL REVISION SUMMARY
PART III:	DRAWING REVISION SUMMARY



PART I – CLARIFICATIONS:

1) None

PART II – PROJECT MANUAL – REVISION SUMMARY:

1) None

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PART III – DRAWING – REVISION SUMMARY:

1) COVER
    a) Per SFM's Comments: Requested information added to Building Data
2) INDEX
    a) Sheet M3.3 added to Drawing Index list.
3) S0.1 – General Notes
    a) Per SFM's Comments: Additional seismic data included.
4) S1.2 – Third Floor Framing Plan & Details
    a) Detail #1 modified & title changed from "Typical Roof Open Frame" to be "Typical Attic Floor Open Frame".
    b) Per SFM's Comments: Detail #4 added to show new bracing below mech. equip. in attic.
5) S1.3 – Fourth Floor & Attic Framing Plan
    a) Per SFM's Comments: Attic Framing Plan expanded to depict mech. unit & related bracing locations.
6) M0.1 – Mechanical Legend & Notes
    a) Sheet M3.3 (new sheet) added to the mechanical sheet index.
7) M0.2 – Mechanical Schedules
    a) Per SFM's Comments: Added mechanical COMCheck.
    b) Added chilled water GPM to AHU-03 schedule.
8) M3.3 – Mechanical Details
    a) Per SFM's Comments: Sheet added. Contains added UL Details.
9) FP0.3 – Fire Protection Notes
    a) Per SFM Comments: Added typical seismic details and notes.
    b) Per SFM Comments: Added required duration of water demand.
    c) Per SFM Comments: Revised flow test date, time, location, and person information.

-End of Addendum Summary Outline-

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GOVERNING CODES - TENNESSEE STATE FIRE MARSHAL

2012 IBC: INTERNATIONAL BUILDING CODE*
2012 IFGC: INTERNATIONAL FUEL GAS CODE
2012 IMC: INTERNATIONAL MECHANICAL CODE
2012 IPC: INTERNATIONAL PLUMBING CODE
2012 IPMC: INTERNATIONAL PROPERTY MAINTENANCE CODE
2012 INTERNATIONAL FIRE CODE
2012 IECC: INTERNATIONAL ENERGY CONSERVATION CODE*
2012 IEBC: INTERNATIONAL EXISTING BUILDING CODE
2012 NFPA 101 LIFE SAFETY CODE
2017 NEC: NATIONAL ELECTRICAL CODE*
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

* INCLUDING AMENDMENTS

GOVERNING CODES - CITY OF COOKEVILLE

2018 IBC: INTERNATIONAL BUILDING CODE*
2018 IFGC: INTERNATIONAL FUEL GAS CODE
2018 IMC: INTERNATIONAL MECHANICAL CODE
2018 IPC: INTERNATIONAL PLUMBING CODE
2018 IPMC: INTERNATIONAL PROPERTY MAINTENANCE CODE
2018 INTERNATIONAL FIRE CODE
2018 IECC: INTERNATIONAL ENERGY CONSERVATION CODE*
2018 IEBC: INTERNATIONAL EXISTING BUILDING CODE
2017 NEC: NATIONAL ELECTRICAL CODE*
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

* INCLUDING AMENDMENTS

ADD-004

SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE:

IBC SECTION 410 - STAGES, PLATFORMS AND TECHNICAL PRODUCTION AREAS: ALL ELEMENTS NOTED IN THIS SECTION ARE EITHER EXISTING TO REMAIN CONDITIONS OR NON-APPLICABLE; EXCEPT THAT A SPRINKLER SYSTEM IS BEING ADDED TO THE AREA ABOVE THE STAGE.

FIRE PROTECTION SYSTEM: PARTIALLY-SPRINKLERED PER NFPA 13 2010 (AUDITORIUM AREA ONLY)

SEISMIC BRACING: FIRE PROTECTION PIPE HANGERS WILL REQUIRE BRACING PER SEISMIC DESIGN CATEGORY 'C'

STANDPIPE CLASS: THE EXISTING BUILDING IS NON-SPRINKLERED, SO THERE ARE NO EXISTING STANDPIPES IN THE BUILDING. A SPRINKLER SYSTEM IS BEING ADDED TO THE AUDITORIUM & STAGE AREAS, BUT THE ORIGIN OF THIS SYSTEM IS UTILIZING THE EXISTING HOSE CABINET FIRE LINES AT THE REAR OF THE STAGE AREA.

CLIMATE ZONE: 4A

COMCHECK COMPLIANCE CERTIFICATES: THE EXTERIOR ENVELOPE OF THE EXISTING BUILDING IS EXISTING TO REMAIN, EXCEPT FOR THE REPLACEMENT OF ONE LARGE WINDOW IN THE AUDITORIUM.

EXTERIOR ENVELOPE COMCHECK: NOT REQUIRED (EXISTING TO REMAIN)
MECHANICAL COMCHECK: SEE M0.2
EXTERIOR LIGHTING COMCHECK: NOT REQUIRED (EXISTING TO REMAIN)
INTERIOR LIGHTING COMCHECK: SEE E0.1

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE RENOVATION OF AN EXISTING AUDITORIUM SPACE WITHIN DERRYBERRY HALL ON THE CAMPUS OF TENNESSEE TECH UNIVERSITY IN COOKEVILLE, TN.

BUILDING HISTORY: THE ORIGINAL BUILDING WAS CONSTRUCTED IN 1912. IN 1962, MOST OF THE BUILDING WAS TORN DOWN AND RE-BUILT USING NON-COMBUSTIBLE MATERIALS FOR THE FLOORS AND THE WALLS. THE WALLS ARE TYPICALLY CMU, WITH SOME STRUCTURAL BRICK WALLS REMAINING FROM THE ORIGINAL BUILDING. THE FLOORS ARE TYPICALLY CONCRETE SLAB ON STEEL JOIST OR BEAMS. THE ORIGINAL CEILINGS ARE PLASTER (MOST REMAIN, ALTHOUGH MANY ARE HIDDEN BY MORE RECENT SUSPENDED ACT/GRID INSTALLATIONS). THE ATTIC LEVEL HAS A CONCRETE SLAB FLOOR (EXCEPT FOR THE CEILING AREAS OVER THE AUDITORIUM AND STAGE AREAS) AND A SLOPED ROOFED STRUCTURE THAT IS A COMBINATION OF WOOD & STEEL MEMBERS. MOST OF THE EXISTING HVAC EQUIPMENT IS LOCATED IN THIS ATTIC SPACE.

IN GENERAL, THE RENOVATION WORK INCLUDES (BUT IS NOT LIMITED TO) REPLACEMENT OF SEATING, REPLACEMENT OF 3 EXTERIOR WINDOWS, INTERIOR FINISH UPGRADES, REPLACEMENT OF LIGHTING, REPLACEMENT OF A/V EQUIPMENT, REPLACEMENT OF SOME INTERIOR DOORS, AND REPLACEMENT OF MECHANICAL EQUIPMENT & DUCTWORK (RELATED TO THE AUDITORIUM SPACE).

WOOD TO BE PAINTED: THE EXISTING STAINED WOOD TRIMS/PANELS AT THE BACK WALL, SIDE WALLS, AND BALCONY RAILING WALL OF THE AUDITORIUM ARE TO REMAIN (OR BE MODIFIED OR REPLACED IN SOME SELECT LOCATIONS) AND BE PAINTED.

WOOD TO BE STAINED: THE NEW WOOD STAGE FRONT TRIMS/PANELS/RISERS/TREADS ARE TO BE STAINED (EXCEPT THE LETTER CUT-OUT AREAS IN THIS LOCATION ARE TO BE PAINTED). AT THE STAGE PROSCENIUM SURROUND, NEW STAINED WOOD PANELS/TRIMS ARE TO BE INSTALLED OVER THE EXISTING PROSCENIUM JAMB & HEAD WOOD TRIMS/PANELS; AND THESE PANELS/TRIMS WILL EXTEND OVER THE EXISTING PLASTER WALL ABOVE THE PROSCENIUM OPENING UP TO THE UNDERSIDE OF THE CEILING COFFER BEAMS.

WHEELCHAIR LIFT: RENOVATIONS INCLUDE THE INCORPORATION OF A WHEELCHAIR LIFT FROM THE AUDITORIUM MAIN LEVEL TO THE STAGE LEVEL. THIS WORK REQUIRED RECONFIGURATION OF RATED WALLS & DOORS TO MAINTAIN FIRE-RATINGS AROUND THE EXISTING ADJACENT EGRESS STAIRWAY.

CHASE: RENOVATIONS INCLUDE A NEW CHASE FOR A RETURN DUCT EXTENDING FROM THE ATTIC TO LEVEL 2 (AUDITORIUM LEVEL). THE CREATION OF THIS CHASE REQUIRES SOME WALL/DOOR DEMOLITION, PARTIAL CONCRETE SLAB DEMOLITION FOR DUCT PENETRATIONS, WALL/DOOR INSTALLATIONS, AND REPLACEMENT OF FINISHES.

SPRINKLER SYSTEM: A PARTIAL BUILDING SPRINKLER SYSTEM WILL BE INSTALLED THAT INCLUDES THE AUDITORIUM, STAGE AREA, AND SELECT ADJACENT SPACES ONLY. NOTE THAT THE SPRINKLER PIPING CAN NOT BE RUN IN THE ATTIC AREA BECAUSE OF POTENTIAL FREEZING. AT THE AUDITORIUM CEILING THE SPRINKLER PIPING SHOULD RUN HORIZONTALLY BETWEEN THE EXISTING COFFERED CEILINGS AND THE NEW ACOUSTICAL CLOUDS HANGING WITHIN THE EXISTING COFFER (THIS WILL REQUIRE THE SPRINKLER LINES TO PENETRATE THROUGH THE COFFER CEILING BEAMS. SEE MECH. DRAWINGS AND SHEET A1.0 FOR GENERAL SCOPE OF WORK AREAS.

ASBESTOS REPORT: A REPORT IS AVAILABLE IN THE PROJECT MANUAL NOTING POTENTIAL BUILDING MATERIALS MATERIALS THAT COULD CONTAIN ASBESTOS. THE CONTRACTOR IS RESPONSIBLE FOR THE CONTAINMENT AND REMOVAL OF ANY CONTAMINATED MATERIALS DISTURBED BY THIS RENOVATION.

SEE SHEET A1.0 FOR OVERALL BUILDING PLANS AND GENERAL IMPACTED SCOPE OF WORK AREAS.

BUILDING DATA

CONSTRUCTION TYPE: TYPE II-B, PARTIALLY-SPRINKLERED W/ NON-SEPARATED OCCUPANCIES

OCCUPANCY TYPE: BUSINESS (B) & ASSEMBLY (A-1)

MAXIMUM ALLOWABLE BUILDING AREA/STORY: BUSINESS = 23,000 SF PER STORY
ASSEMBLY = 8,500 SF PER STORY

BUILDING AREA (EXISTING):
19,460 SF - LEVEL 1
18,433 SF - LEVEL 2
13,969 SF - LEVEL 3
2,051 SF - LEVEL 4
53,913 SF - TOTAL EXISTING

BUILDING AREA (RENOVATED EXISTING):
0 SF - LEVEL 1
4,105 SF - LEVEL 2 (AUDITORIUM - MAIN LEVEL)
1,580 SF - LEVEL 3 (AUDITORIUM - BALCONY LEVEL)
0 SF - LEVEL 4
5,685 SF - TOTAL EXISTING

BUILDING AREA (NEW ADDED): 0 SF - NONE ADDED

BUILDING AREA OCCUPANCY RATIO:
BUSINESS (B) = 19,460 SF - LEVEL 1
11,948 SF - LEVEL 2
12,389 SF - LEVEL 3
2,051 SF - LEVEL 4
45,848 SF (82.5 % OF TOTAL BUILDING AREA)

ASSEMBLY (A-1) = 0 SF - LEVEL 1
6,485 SF - LEVEL 2
1,580 SF - LEVEL 3
0 SF - LEVEL 4
8,065 SF (17.5 % OF TOTAL BUILDING AREA)

MAXIMUM ALLOWABLE BUILDING HEIGHT: 55'

ACTUAL BUILDING HEIGHT: 48'-3"

MAXIMUM NUMBER OF STORIES: BUSINESS (B) = 3
ASSEMBLY (A-1) = 2

ACTUAL NUMBER OF STORIES: BUSINESS (B) = 3 w/ PARTIAL 4
(NOTE THAT THERE IS A SMALL FOOTPRINT OF THE OFFICE PORTION OF THE BUILDING THAT CONTAINS A 4 STORY AREA WITHIN THE MAIN BUILDING'S 3 STORY HEIGHT CONFIGURATION. SEE SHEET A1.0 FOR OVERALL PLANS. THIS 4 STORY AREA IS APPROXIMATELY 11.6% OF THE OVERALL BUILDING'S FOOTPRINT)
ASSEMBLY (A-1) = 2

MAX. EXIT ACCESS TRAVEL DISTANCE: 200'-0"
MAX. COMMON PATH OF TRAVEL DISTANCE: 75'-0"
MAX. DEAD END CORRIDOR DISTANCE: 20'-0"
MIN. EGRESS WIDTH PER OCCUPANT: STAIRWAYS = 0.3, ALL OTHERS = 0.2 (NFPA, IBC)

CONSTRUCTION FIRE-RATINGS:
0 HR: PRIMARY STRUCTURAL FRAME
0 HR: BEARING WALLS - EXTERIOR
0 HR: BEARING WALLS - INTERIOR
0 HR: NONBEARING WALLS - EXTERIOR
0 HR: NONBEARING WALLS - INTERIOR
0 HR: FLOOR CONSTRUCTION
0 HR: ROOF CONSTRUCTION
1 HR: SEPARATION BETWEEN BUSINESS & ASSEMBLY OCCUPANCY USES
0 HR: CORRIDOR WALLS (IF SPRINKLERED)
1 HR: CORRIDOR WALLS (IF NON-SPRINKLERED)
2 HR: SHAFTS (EGRESS STAIRS & ELEVATOR)

FIRE-RATED DESIGN ASSEMBLIES:
1 HR: NEW WALLS: 6" CMU (AT ASSEMBLY/BUSINESS SEPARATION): U906
2 HR: NEW WALLS: 6" & 12" CMU (AT STAIR ENCLOSURES): U906
1 HR: NEW WALLS: METAL STUD FRAMING AT DOOR SURROUNDS (AT ASSEMBLY/BUSINESS SEPARATION): U404
1 HR: NEW WALLS: METAL STUD FRAMING AT STAGE FRONT (AT ASSEMBLY/BUSINESS SEPARATION): V497
1 HR: EXISTING WALLS: 6", 8", 12" CMU (AT ASSEMBLY/BUSINESS SEPARATION), EQUIVALENCY PER IBC 2018, TABLE 721.1(2), ITEM 3-1.3
1 HR: EXISTING WALLS: ≥12" BRICK THICKNESS (AT ASSEMBLY/BUSINESS SEPARATION), EQUIVALENCY PER IBC 2018, TABLE 721.1(2), ITEM 1-1.1
2 HR: EXISTING WALLS: 6", 8", 12" CMU (AT STAIR ENCLOSURES), EQUIVALENCY PER IBC 2018, TABLE 721.1(2), ITEM 3-1.3
1 HR: NEW FLOOR: CONCRETE SLAB (AT ASSEMBLY/BUSINESS SEPARATION): PER IBC 2018, TABLE 722.2.2.1 FOR 'SILICEOUS' CONCRETE TYPE
1 HR: EXISTING FLOOR: CONCRETE SLAB W/ PLASTER CEILING (AT ASSEMBLY/BUSINESS SEPARATION) EQUIVALENCY PER IBC 2018, TABLE 721.1(3), ITEM 5-1.1

SEE A0.1 FOR APPLICABLE FIRE-RATED DESIGN ASSEMBLY DETAILS

EXISTING FLOOR CONSTRUCTION DESCRIPTIONS:
LEVELS 2, 3, 4, & ATTIC: 3" CARBONATE AGGREGATE CONCRETE, ON CORRUFORM DECK (W/ 6X6 WELDED MESH), ON STEEL JOIST OR STEEL BEAMS, WITH 3/4" PLASTER (ON LATH) CEILINGS
AUDITORIUM FLOOR: 3 1/2" CARBONATE AGGREGATE CONCRETE, ON CORRUFORM DECK (W/ 6X6 WELDED MESH), ON STEEL JOIST OR STEEL BEAMS, WITH 3/4" PLASTER (ON LATH) CEILINGS

INTERIOR FINISH RATING REQUIREMENTS:

	ASSEMBLY (A-1) (SPRINKLERED)	BUSINESS (B) (NON-SPRINKLERED)
INTERIOR EXIT STAIRS, RAMPS, & PASSAGEWAYS:	CLASS B	CLASS A
CORRIDORS & EXIST ACCESS STAIRS/RAMPS:	CLASS B	CLASS B
ROOMS/ENCLOSED SPACES:	CLASS C	CLASS C

AUDITORIUM SEATING COUNT (EXISTING):
610 (LEVEL 2 - MAIN FLOOR)
168 (LEVEL 3 - BALCONY)
778 (AUDITORIUM TOTAL)

AUDITORIUM SEATING COUNT (RENOVATED):
446 (LEVEL 2 - MAIN FLOOR) - 440 FIXED SEATS & 6 WHEELCHAIR AREAS INCLUDED IN SEAT COUNT
160 (LEVEL 3 - BALCONY)
606 (AUDITORIUM TOTAL)

AUDITORIUM SEATING COUNT (REDUCTION):
778 (EXISTING TOTAL)
606 (RENOVATED TOTAL)
-172 (AUDITORIUM SEATING REDUCTION)

ENERGY ENVELOPE CODE REQUIREMENTS: NO PORTIONS OF EXTERIOR ENVELOPE ARE TO BE MODIFIED, EXCEPT FOR THE REPLACEMENT OF THREE EXTERIOR WINDOWS IN THE AUDITORIUM .

MAX. FOR FIXED FENESTRATION = U-0.38

LOCAL FIRE DEPARTMENT

FIRE CHIEF: DARYL BLAIR
45 EAST BROAD STREET
COOKEVILLE, TN 38501
WORK: 931.520.5255

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TENNESSEE TECH UNIVERSITY
DERRYBERRY HALL
BUILDING UPGRADES - PHASE 1
1 WILLIAM L. JONES DRIVE
COOKEVILLE, TN 38505

JEFFREY MARK CASELLA REGISTERED ARCHITECT 101595 STATE OF TENNESSEE 4-25-24

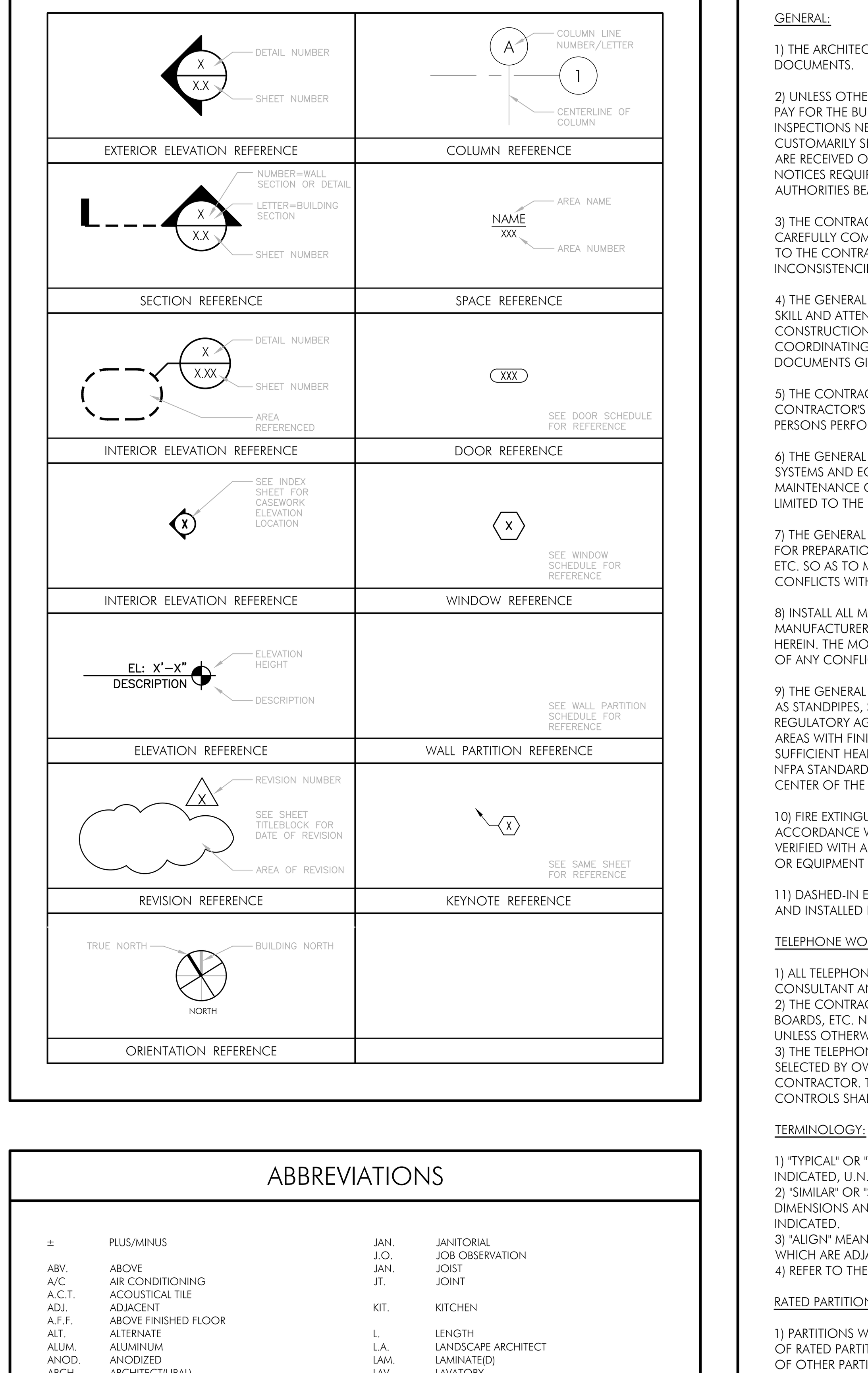
ISSUED: 03.08.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

REVISED:

#	DATE	DESCRIPTION
ADD-004	04.25.24	ADDENDUM #4

COVER

SYMBOL REFERENCE LEGEND



ABBREVIATIONS

±	PLUS/MINUS
ABV.	ABOVE
A/C	AIR CONDITIONING
A.C.T.	ACOUSTICAL TILE
ADJ.	ADJACENT
A.F.F.	ABOVE FINISHED FLOOR
ALT.	ALTERNATE
ALUM.	ALUMINUM
ANOD.	ANODIZED
ARCH.	ARCHITECT(URAL)
AUTO.	AUTOMATIC
BD.	BOARD
BLDG.	BUILDING
BLKG.	BLOCKING
BLW.	BELOW
B.M.	BENCH MARK
B.N.	BIDDING & NEGOTIATIONS
B.0.	BY OTHERS
BRG.	BEARING
B.S.	BOTH SIDES
BTM.	BOTTOM
B.W.	BOTH WAYS
C.O.	CONSTRUCTION ADMINISTRATION
CAB.	CABINET
C.C.TV.	CLOSED CAPTION TELEVISION
C.D.	CONSTRUCTION DOCUMENTS
C.I.P.	CAST IN PLACE
C.J.	CONTROL JOINT
CL.	CLOSET
℄	CENTERLINE
CLG.	CEILING
CLR.	CLEAR
C.M.U.	CONCRETE MASONRY UNIT
C.O.	CASED OPENING
COL.	COLUMN
COMBO.	COMBINATION
CONC.	CONCRETE
CONST.	CONSTRUCTION
C.P.D.	CIVIL PROPOSED DRAWING
CPT.	CARPET(ED)
C.S.	CAST STONE
C.T.	CERAMIC TILE
DBL.	DOUBLE
D.D	DESIGN DEVELOPMENT
DEM.	DEMOLISH, DEMOLITION
D.F.	DRINKING FOUNTAIN
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DS.	DOWNSPOUT
DTL.	DETAIL
DTLS.	DETAILS
DWG.	DRAWING
E.	EAST
E.F.	EACH FACE
E.J.	EXPANSION JOINT
ELEC.	ELECTRIC(AL)
EL.	ELEVATION
ELEV.	ELEVATOR
EMER.	EMERGENCY
ENG.	ENGINEER
EQ.	EQUAL
EQUIP.	EQUIPMENT
EST.	ESTIMATE
ETC.	ECETERA
EXH.	EXHAUST
EXIST.	EXISTING
EXT.	EXTERIOR
F.B.O.	FURNISHED BY OTHERS
F.D.	FLOOR DRAIN
F.E.	FIRE EXTINGUISHER
F.E.C.	FIRE EXTINGUISHER CABINET
F.F.E.	FINISHED FLOOR ELEVATION
FIN.	FINISH
FLR.	FLOOR(ING)
FLUR.	FLUORESCENT
F.O.	FINISHED OPENING
F.O.F.	FACE OF FINISH
F.O.M.	FACE OF MASONRY
F.O.S.	FACE OF STUDS
F.P.	FIRE PROTECTION
FTG.	FOOTING
F.W.C.	FABRIC WALL COVERING
GA.	GAGE, GUAGE
GALV.	GALVANIZED
G.C.	GENERAL CONTRACT(OR)
G.F.	GROUND FACE
GLZ.	GLASS, GLAZING
G.M.A.	GILBERT/MCLAUGHLIN/CASELLA ARCHITECTS
GRT.	GROUT
GVL.	GRAVEL
GYP. BD.	GYPSUM BOARD
H.	HEIGHT
H.B.	HOSE BIBB
H.C.	HOLLOW CORE
HDR.	HEADER
H.M.	HOLLOW METAL
HOR.	HORIZONTAL
HR.	HOUR
HT.	HEIGHT
HTG.	HEATING
H.V.A.C.	HEATING, VENTILATING & AIR CONDITIONING
HWD.	HARDWOOD
I.D.	INSIDE DIAMETER
INFO.	INFORMATION
INSUL.	INSULATE(D/ION)
INT.	INTERIOR
INV.	INVERT
JAN.	JANITORIAL
J.O.	JOB OBSERVATION
JAN.	JOIST
JT.	JOINT
KIT.	KITCHEN
L.	LENGTH
L.A.	LANDSCAPE ARCHITECT
LAM.	LAMINATE(D)
LAV.	LAVATORY
L.H.	LEFT HAND
L.L.	LOWER LEVEL
LVR.	LOUVER
MAS.	MASONRY
MAX.	MAXIMUM
MECH.	MECHANICAL
MED.	MEDIUM
MFR.	MANUFACTUR(ER)
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MLD.	MOLDING, MOULDING
M.O.	MASONRY OPENING
MTL.	METAL
MULL.	MULLION
N.	NORTH
N.I.C.	NOT IN CONTRACT
NO.	NUMBER
NOM.	NOMINAL
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
OH.	OVERHEAD
OPNG.	OPENING
OPP.	OPPOSITE
PART.	PARTITION
P.C.C.	PRECAST CONCRETE
PKG.	PARKING
P.L.	PROPERTY LINE
PLUMB.	PLUMBING
PLYWD.	PLYWOOD
PRE-FIN.	PRE-FINISHED
P.T.	PRESSURE TREAT(ED), POST TENSIONED
PTD.	PAINT(ED)
PVMT.	PAVEMENT
Q.T.	QUARRY TILE
RAD.	RADIUS
R.A.G.	RETURN AIR GRILLE
R.B.	RUBBER BASE
R.C.D.	REFLECTED CEILING PLANS
R.D.	ROOF DRAIN
RE-INF.	RE-INFORCED
REF.	REFRIGERATOR
REQ.	REQUIRED
REV.	REVISION(S), REVISED
R.F.I.	REQUEST FOR INFORMATION
RM.	ROOM
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R.T.	RUBBER TILE
S.	SOUTH
S.C.	SOLID CORE
SCHED.	SCHEDULE
S.D.	STORM DRAIN, SCHEMATIC DESIGN
SECT.	SECTION
SHT.	SHEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
S.S.	STAINLESS STEEL
STD.	STANDARD
STO.	STORAGE
STRUCT.	STRUCTURAL
SUS.	SUSPENDED
SYS.	SYSTEM
TEL.	TELEPHONE
TELECOM.	TELECOMMUNICATIONS
T.B.D.	TO BE DETERMINED
T&G	TONGUE AND GROOVE
T.O.J.	TOP OF JOIST
T.P.	TOILET PARTITION
T.O.S.	TOP OF STEEL
T.O.W.	TOP OF WALL
TV.	TELEVISION/DISPLAY SCREEN
TYP.	TYPICAL
U.L.	UPPER LEVEL
U.N.O.	UNLESS NOTED OTHERWISE
UTIL.	UTILITY
V.C.T.	VINYL COMPOSITION TILE
VEN.	VENEER
VERT.	VERTICAL
VEST.	VESTIBULE
W.	WEST, WIDTH, WIDE
W.C.	WATER CLOSET, WATER COOLER
W.D.	WOOD
W/D	WASHER/DRYER
W.G.	WIRED GLASS
W.H.	WATER HEATER
WIN.	WINDOW
W.M.	WIRE MESH
W.T.W.	WALL TO WALL
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

GENERAL NOTES

GENERAL:

1) THE ARCHITECT IS SOLELY RESPONSIBLE FOR THE DESIGN INTERPRETATION OF THE CONSTRUCTION DOCUMENTS.

2) UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL SECURE AND PAY FOR THE BUILDING PERMIT AND OTHER PERMITS AND GOVERNMENTAL FEES, LICENSES AND INSPECTIONS NECESSARY FOR PROPER EXECUTION AND COMPLETION OF THE WORK. THESE ARE CUSTOMARILY SECURED AFTER EXECUTION OF THE CONTRACT AND ARE LEGALLY REQUIRED WHEN BIDS ARE RECEIVED OR NEGOTIATIONS CONCLUDED. THE CONTRACTOR SHALL COMPLY WITH AND GIVE NOTICES REQUIRED BY LAWS, ORDINANCES, RULES REGULATIONS AND LAWFUL ORDERS OF PUBLIC AUTHORITIES BEARING ON PERFORMANCE OF THE WORK.

3) THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL CAREFULLY COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS AND OTHER INFORMATION KNOWN TO THE CONTRACTOR WITH THE CONTRACT DOCUMENTS BEFORE COMMENCING ACTIVITIES. ERRORS, INCONSISTENCIES OR OMISSIONS DISCOVERED SHALL BE REPORTED TO THE ARCHITECT AT ONCE.

4) THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE CONTRACTOR'S BEST SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL OVER CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES; AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT, UNLESS THE CONTRACT DOCUMENTS GIVE SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.

5) THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR AGENTS AND EMPLOYEES, AND OTHER PERSONS PERFORMING PORTIONS OF THE WORK UNDER A CONTRACT WITH THE CONTRACTOR.

6) THE GENERAL CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF BUILDING SYSTEMS AND EQUIPMENT AND VERIFY THAT REQUIRED CLEARANCES FOR INSTALLATION AND MAINTENANCE OF THE EQUIPMENT AND ASSOCIATED WORK ARE PROVIDED. THIS INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING SYSTEMS: MECHANICAL, ELECTRICAL, LIGHTING, PLUMBING, AND TELEPHONE.

7) THE GENERAL CONTRACTOR SHALL COORDINATE WITH ALL BUILDING TRADES INVOLVED IN THE PROJECT FOR PREPARATION OF SHOP DRAWINGS TO INSURE PROPER CLEARANCES FOR FIXTURES, DUCTS, CEILING, ETC. SO AS TO MAINTAIN THE SPECIFIED CEILING HEIGHT NOTED ON THE DRAWINGS. CLARIFY ANY CONFLICTS WITH ARCHITECT.

8) INSTALL ALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDED SPECIFICATIONS, EXCEPT WHERE THEY DIFFER FROM SPECIFICATIONS HEREIN. THE MORE STRINGENT SPECIFICATION SHALL BE THE BASIS FOR THE WORK. NOTIFY THE ARCHITECT OF ANY CONFLICTING RECOMMENDATIONS.

9) THE GENERAL CONTRACTOR SHALL SUBMIT PLANS FOR ALL FIXED FIRE PROTECTION EQUIPMENT SUCH AS STANDPIPES, SPRINKLER SYSTEMS, AND FIRE ALARM SYSTEMS, AND HAVE THEM APPROVED BY GOVERNING REGULATORY AGENCIES BEFORE EQUIPMENT IS INSTALLED. SPRINKLER HEAD LOCATIONS ARE SHOWN IN AREAS WITH FINISHED CEILINGS FOR COORDINATION PURPOSES ONLY. THE CONTRACTOR SHALL INCLUDE SUFFICIENT HEADS IN ALL SPACES TO PROVIDE 100% COMPLETE COVERAGE OF ROOM (SPACE) DEFINED IN NFPA STANDARD 13. IN ROOMS WITH LAY-IN CEILING TILE SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS NOTED OTHERWISE.

10) FIRE EXTINGUISHERS, ELECTRICAL PANELS, TELEPHONE EQUIPMENT BOARDS, ETC. SHALL BE LOCATED IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING AGENCIES. ANY LOCATIONS NOT SHOWN SHALL BE VERIFIED WITH ARCHITECT PRIOR TO ROUGH-OUT AND INSTALLATION. U.N.O., THE ABOVE PANELS AND/ OR EQUIPMENT SHALL BE FULLY RECESSED AND MAINTAIN INTEGRITY OF WALL FIRE RATING REQUIREMENTS.

11) DASHED-IN EQUIPMENT SHOWN AND NOTED SHALL BE FURNISHED BY THE OWNER: RECEIVED, STORED AND INSTALLED BY THE GENERAL CONTRACTOR. EQUIPMENT NOTED AS "N.I.C." IS NOT IN THIS CONTRACT.

TELEPHONE WORK

1) ALL TELEPHONE WORK SHALL BE COORDINATED BY THE GENERAL CONTRACTOR WITH OWNERS CONSULTANT AND ANY OR ALL TELEPHONE COMPANIES CONTRACTED TO PROVIDE SERVICE.
2) THE CONTRACTOR SHALL PROVIDE TELEPHONE COMPANIES WITH ALL CONDUIT, POWER, TELEPHONE BOARDS, ETC. NECESSARY TO ACCOMMODATE OWNER'S REQUIREMENTS (TELEPHONE EQUIPMENT N.I.C. UNLESS OTHERWISE NOTED)
3) THE TELEPHONE SYSTEM AND FIXTURES SHALL BE PROVIDED BY THE TELEPHONE SYSTEM COMPANY SELECTED BY OWNER. RELATED PRE-WIRING AND REQUIRED CONDUIT SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. THE LOCATION OF SYSTEMS CONTROLS AND ELECTRICAL REQUIREMENTS ADJACENT TO CONTROLS SHALL BE COORDINATED WITH THE SELECTED TELEPHONE COMPANY AND THE ARCHITECT.

TERMINOLOGY:

1) "TYPICAL" OR "TYP." MEANS IDENTICAL FOR ALL CONDITIONS WHICH MATCH ORIGINAL CONDITION INDICATED, U.N.O.
2) "SIMILAR" OR "SIM." MEANS COMPARABLE CHARACTERISTICS FOR THE CONDITIONS NOTED. VERIFY DIMENSIONS AND ORIENTATION OF CONDITIONS WHICH VARY FROM TYPICAL OR SIMILAR CONDITIONS INDICATED.
3) "ALIGN" MEANS ALIGNMENT OF SIMILAR COMPONENTS OF CONSTRUCTION, (WALLS, JAMBS, ETC.) WHICH ARE ADJACENT OR SHALL BE IN LINE WITH EACH OTHER ACROSS VOIDS.
4) REFER TO THE ABBREVIATION SECTION ON THIS SHEET FOR ABBREVIATED TERMINOLOGY.

RATED PARTITIONS:

1) PARTITIONS WHICH EXTEND TO THE UNDERSIDE OF STRUCTURE SHALL BE TIGHTLY SEALED. THE INTEGRITY OF RATED PARTITIONS AND SMOKE PARTITIONS SHALL BE MAINTAINED AT CORNERS AND AT INTERSECTIONS OF OTHER PARTITION TYPES. FILL ALL VOIDS AS DETAILED AND/ OR AS REQUIRED USING MATERIALS APPROVED BY GOVERNING CODES. SMOKE AND RATED PARTITIONS SHALL CONTINUE TO INSIDE FACE OF EXTERIOR WALL AND SHALL BE SEALED COMPLETELY ACCORDING TO GOVERNING CODES.

DIMENSIONS:

1) THE CONTRACTOR SHALL NOT SCALE THE DRAWINGS.
2) DIMENSIONS ARE NOT ADJUSTABLE UNLESS NOTED WITH A PLUS/MINUS TOLERANCE.
3) ALL FLOOR TO FLOOR AND CEILING HEIGHTS SHOWN ON DRAWINGS ARE FROM TOP OF FLOOR LINE UNLESS OTHERWISE NOTED "AFF" (ABOVE FINISH FLOOR)
4) DIMENSIONS ARE INDICATED AS FOLLOWS U.N.O.:
COLUMNS: FROM CENTERLINE TO CENTERLINE
METAL FRAMING: FROM FACE OF STUD TO FACE OF STUD
CONCRETE: FROM FACE OF CONCRETE TO FACE OF CONCRETE
MASONRY: FROM FACE OF MASONRY TO FACE OF MASONRY
EXTERIOR WALLS: FROM EXTERIOR FACE OF WALL TO INTERIOR FACE OF STUD

DOORS:

1) DOORS SHALL BE LOCATED 4" FROM CLEAR OPENING TO ADJACENT WALL U.N.O.
2) THE CONTRACTOR SHALL UNDERCUT INTERIOR DOORS AS REQUIRED TO CLEAR FINISH FLOOR BY 1/4" U.N.O..

BLOCKING:

1) THE GENERAL CONTRACTOR SHALL PROVIDE WOOD BLOCKING AS REQUIRED ABOVE CEILINGS; AND IN PARTITIONS BEHIND WALL HUNG EQUIPMENT, SHELVING, CABINETS, ETC. PROVIDE FIRE RETARDANT WOOD BLOCKING AT FIRE RATED WALL OR CEILING ASSEMBLY LOCATIONS.

CASEWORK:

1) CASEWORK DIMENSIONS SHALL BE FIELD VERIFIED BEFORE UNIT FABRICATION OR INSTALLATION.

CEILINGS:

1) ARCHITECTURAL REFLECTED CEILING PLANS SHALL BE USED TO DETERMINE THE LOCATION OF LIGHT FIXTURES, MECHANICAL DIFFUSERS, AND GRILLES.
2) U.N.O., SPECIFIED PERIMETER CEILING ANGLES FOR LAY-IN CEILINGS OR DRYWALL SHALL BE INSTALLED TIGHT TO PARTITION SURFACES, FREE FROM DIPS, KINKS, BREAKS AND OTHER IRREGULARITIES.

GENERAL RENOVATION NOTES

1) EXISTING CONSTRUCTION (PARTITIONS, DOORS, PLUMBING FIXTURES, CASEWORK, EQUIPMENT, ETC.) IS INDICATED ON THE FLOOR PLANS, WITH LINES IN A LIGHTER SHADE (SCREENED). NEW CONSTRUCTION IS INDICATED BY FULL INTENSITY (SOLID) LINES. REFER TO DEMOLITION DRAWINGS FOR EXISTING CONSTRUCTION TO BE REMOVED.

2) THE GENERAL CONTRACTOR SHALL PROVIDE PROTECTIVE COVERING FOR CARPET, FURNISHINGS AND FINISHES (INCLUDING STAGE FLOORS) IN EXISTING AREAS NOT DESIGNATED FOR DEMOLITION OR NEW CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE CAUSED BY HIS WORK OR ANY SUBCONTRACTOR.

3) THE GENERAL CONTRACTOR SHALL MEET WITH THE OWNER'S AUTHORIZED REPRESENTATIVE TWO (2) WEEKS IN ADVANCE OF CONSTRUCTION COMMENCEMENT TO:
a) SCHEDULE, SEQUENCE AND COORDINATE ALL WORK.
b) MAINTAIN EXITS AND EGRESS WIDTHS REQUIRED BY CODES DURING ALL PHASES OF CONSTRUCTION.
c) KEEP DISRUPTION OF THE FACILITY'S FUNCTIONS TO A MINIMUM DURING CONSTRUCTION.

4) THE GENERAL CONTRACTOR SHALL VERIFY THAT INSTALLATION OF NEW CEILINGS CAN BE INSTALLED IN EXISTING SPACES TO CLEAR DUCTWORK AND OTHER CONSTRUCTED ITEMS AND MAINTAIN FLOOR TO CEILING HEIGHTS INDICATED ON DRAWINGS. IF DISCREPANCIES OCCUR DUE TO EXISTING CONDITIONS, CONSULT WITH THE ARCHITECT BEFORE PROCEEDING.

5) WHERE NEW CEILINGS MEET EXISTING CEILINGS, THEY SHALL MATCH THE EXISTING IN HEIGHT, PATTERN AND MATERIAL U.N.0. WHERE AN EXISTING SPACE IS ENLARGED, ALIGN THE NEW CEILING GRID WITH EXISTING. IF EXISTING CEILING TILES CANNOT BE MATCHED IN COLOR OR TYPE, REPLACE EXISTING TILES IN THAT SPACE WITH NEW TILES AS APPROVED BY THE ARCHITECT.

6) THE FINISH FACE OF MATERIAL OF NEW PARTITIONS SHALL ALIGN ON BOTH SIDES OF THE PARTITIONS (FLUSH) WITH THE FACE OF MATERIALS ON EXISTING COLUMNS OR PARTITIONS.

7) THE GENERAL CONTRACTOR SHALL VERIFY THAT THE CONSTRUCTION OF EXISTING FIRE ASSEMBLIES, (PARTITIONS, FLOORS, ROOF, DOORS AND FRAMES) MEET THE RATINGS DESIGNATED ON THE DRAWINGS. IF DISCREPANCIES ARE DISCOVERED, THE CONTRACTOR SHALL MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ATTAIN THE PROPER RATINGS AND TO MEET LOCAL GOVERNING CODES.

8) THE INTEGRITY OF FIRE PROTECTIVE CONSTRUCTION SHALL BE MAINTAINED ON EXISTING COLUMNS, BEAMS AND FLOOR-CEILING ASSEMBLIES. PATCH ALL FIREPROOFING REQUIRED AND SEAL PENETRATIONS TO MAINTAIN RATINGS.

9) THE GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS OF AS-BUILT CONDITIONS, AND NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES. ALL INFORMATION SHOWN ON THE CONSTRUCTION DOCUMENTS IS BASED ON FIELD OBSERVATIONS AND/OR THE ORIGINAL CONSTRUCTION DOCUMENTS OF THE FACILITY.

10) THE GENERAL CONTRACTOR SHALL SURVEY AND DETERMINE THE REMOVAL OF EXISTING CONSTRUCTION, EITHER WHOLE OR IN PART, AS REQUIRED FOR THE INSTALLATION OF THE NEW MECHANICAL, PLUMBING AND ELECTRICAL WORK.

11) THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING DEFECTIVE WORK IN EXISTING CONSTRUCTION WITHIN THE LIMITS OF THE CONSTRUCTION AREA. THIS INCLUDES, BUT IS NOT LIMITED TO, UNEVEN SURFACES AND FINISHES AT PLASTER OR GYPSUM BOARD. THE GENERAL CONTRACTOR SHALL PATCH AND REPAIR SURFACES TO MATCH NEW ADJACENT SURFACES.

12) ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC. LOCATED IN RATED PARTITIONS SHALL BE BACKED WITH APPROPRIATE MATERIALS TO RETAIN APPLICABLE PARTITION FIRE RATING.

13) ALL PIPING ABOVE GRADE AND INSIDE THE BUILDING REQUIRED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED IN AREAS WHERE IT WILL BE CONCEALED. THE CONTRACTOR SHALL CONSULT WITH THE ARCHITECT AND COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISH AREAS.

14) REMOVE MECHANICAL, ELECTRICAL, AND PLUMBING FIXTURES AND CAP OR REMOVE EXISTING BRANCH LINES AS INDICATED IN THE MECHANICAL, PLUMBING AND ELECTRICAL DOCUMENTS.

15) IN THE EVENT THE CONTRACTOR ENCOUNTERS ON THE SITE MATERIAL REASONABLY BELIEVED TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB) OR OTHER TOXIC MATERIAL WHICH HAS NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AFFECTED AND REPORT THE CONDITION TO THE OWNER IN WRITING.

16) EXISTING EQUIPMENT, STRUCTURE, PIPING, ETC. LOCATED ON PLANS SHOWN FOR POINTS OF REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING WORK. BEGINNING OF WORK SHALL SIGNIFY CONTRACTOR'S ACCEPTANCE OF EXISTING CONDITIONS.

17) IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SCHEDULE ALL DEMOLITION WORK WITH THE OWNER TWO (2) WEEKS IN ADVANCE. WORK SHALL BE PERFORMED AT SUCH TIMES AND UNDER SUCH CONDITIONS AS SUITS THE OWNER.

18) THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE PRICING OF THIS PROJECT AND REVIEW ALL AREAS CONCERNED WITH THIS PROJECT.

19) PATCH HOLES LEFT IN WALLS AND FLOORS AFTER REMOVAL OF EXISTING DUCTWORK, PIPING CONDUIT, ETC. TO MATCH NEW OR EXISTING CONSTRUCTION AND FIRE RATING.

20) FIRE SAFE ALL FLOOR PENETRATIONS. THIS INCLUDES EXISTING FLOOR PENETRATIONS THAT HAVE NOT BEEN PROPERLY SEALED.

OWNER/GC COORDINATION ITEMS

IT SCOPE OF WORK:
THE GC IS TO PROVIDE J-BOXES, CONDUIT (IN CONCEALED LOCATIONS), HANGERS, & LOW-VOLTAGE CABLING (SEE PROJECT MANUAL FOR SPECIFICATIONS). THE OWNER WILL MAKE FINAL CONNECTIONS.

THEATRICAL AUDIO/VIDEO/LIGHTING SCOPE OF WORK:
FOR THE FOLLOWING ITEMS, THE GC IS TO PROVIDE POWER (WHERE REQUIRED), CONDUIT W/ PULL CORDS (IN CONCEALED LOCATIONS) FOR LOW-VOLTAGE CABLING (CABLING INSTALLED/PROVIDED BY A/V VENDOR), AND ANCHORING MATERIALS AT CEILINGS & WALLS WHERE REQUIRED. PATHWAYS WILL BE REQUIRED FROM THE THEATRICAL AUDIO/VIDEO/LIGHTING EQUIPMENT/CONTROLS/DEVICES BACK TO IT & A/V ROOM #336. THE "BASIS FOR DESIGN" EQUIPMENT LISTED BELOW IS PROVIDED FOR PRELIMINARY COORDINATION ONLY. THE GC IS TO COORDINATE WITH THE AWARDED THEATRICAL VENDORS AFTER FINAL SELECTION IS MADE BY THE OWNER.

ADD-003
(ONLY THE UNDERLINED SECTION IN THE PARAGRAPH WAS ADDED)

VIDEO WALL EQUIPMENT (BASE):

SPRINGTREE PH2.955NATION:	2.9 PITCH LED PANEL 500mmX50mmNATIONSTAR 2020 LEDS (45 PIECES) FOR A TOTAL VIDEO WALL SIZE OF 8.2' HIGH X 14.76' WIDE (TOTAL EQUIPMENT WEIGHT = 828 LBS.)
NOVASTAR VX400:	NOVASTAR-VX400 LED VIDEO WALL PROCESSOR (1 PIECE)
ST-HANGBAR:	SPRINGTREE HANGBAR FOR PH2.9 LED VIDEO PANELS (9 PIECES)
WINCH:	REPLACE EXISTING PROJECTOR SCREEN WINCH AT WALL AS REQUIRED TO CONTROL THE NEW VIDEO WALL

VIDEO WALL EQUIPMENT (ALTERNATE):

SPRINGTREE PH2.955NATION:	2.9 PITCH LED PANEL 500MMX50MMNATIONSTAR 2020 LEDS (66 PIECES) FOR A TOTAL VIDEO WALL SIZE OF 9.83' HIGH X 14.76' WIDE (TOTAL EQUIPMENT WEIGHT = 1215 LBS.)
NOVASTAR VX400:	NOVASTAR-VX400 LED VIDEO WALL PROCESSOR (1 PIECE)
ST-HANGBAR:	CONFIGURATION TBD
WINCH:	REMOVE EXISTING WINCH. NEW WINCH EQUIPMENT TO BE ABOVE VIDEO WALL AT SUPPORT POINTS. EQUIPMENT & CONFIGURATION TBD.

THEATRICAL LIGHTING EQUIPMENT:

L-C120w-RGBWW:	SPRINGTREE SPATIAL WASH COB RGBWW, 120W,50 DEGREE. DMX (24 PIECES)
HD202-WW:	SPRINGTREE 200W ELLIPSOIDAL-WW. CR190, 3000K, - NO LENS (PIECES)
HDLENS36:	SPRINGTREE INTERCHANGABLE LENS BARREL FOR HD200 ELLIPSOIDAL-36 DEGREE (12 PIECES)
SILENTPAR-1210:	SPRINGTREE SILENTPAR 1210 LED PAR-DMX, RED, GREEN, BLUE, WHITE, AMBER, LED'S (8 PIECE)
SM-8 SWITCH:	SPRINGTREE DMX RECORDER MASTER 8 SCENE DESKTOP CONTROLLER WITH DMX SWITCH (1 PIECE)
XPRESS 1024:	CHAUVET DJ 2 UNIVERSE USB TO DMX INTERFACE (1 PIECE)
ST-CUSTOM:	TOUCH SCREEN PC (1 PIECE)
SS-8-W:	SPRINGTREE DMX RECORDER SLAVE 8 SCENE WALL CONTROLLER WHITE (2 PIECES)
CLP-05:	CHAUVET-PRO C CLAMP (44 PIECES)
AC3PDMX10:	ELATION ACCU CABLE 10' 3 PIN DMX CABLE (44 PIECES)
DMXBOOSTER8:	SPRINGTREE-8 WAY DMX DISTRIBUTER (1 PIECE)

THEATRICAL SOUND EQUIPMENT:

AH-SQ-7:	ALLEN & HEATH-48 CHANNEL/36 BUS DIGITAL MIXER, 33-FADER SURFACE, 96kHz XCVI FPGA ENGINE (1 PIECE)
AH-DX168:	ALLEN & HEATH-dLIVE STAGE BOX WITH 16 dLIVE 96 kHz MIC PREAMPS AND 8 OUTPUTS (2 PIECES)
VIO L208:	DB TECHNOLOGIES - 2 WAY ACTIVE LINE ARRAY MODULE MAX SPL 133.5dB-DUAL 8" LOW FREQUENCY DRIVERS, 1X1.4" NEODYMIUM HF DRIVER-1800 WATT PEAK DIGIPRO G3 AMPLIFIER-40 LBS-POWER CHORD NOT INCLUDED (14 PIECES)
DRK-208:	DB TECHNOLOGIES-FLYBAR FOR VIO L208 (2 PIECES)
VIO S218F:	DB TECHNOLOGIES-ACTIVE BASSREFLEX FLYABLE SEMI-HORN-LOADED SUBWOOFER-28Hz-CUT FREQUENCY (CROSSOVER POINT DEPENDENT) FREQUENCY RESPONSE-2X18"" LOW FREQUENCY DRIVERS-6400 WATT PEAK DIGIPRO G4 AMPLIFIER-UP TO 9.9ms DELAY-CROSSOVER-51.18""X20.47""X31.5""229.06 LBS (1 PIECE)
DRK-218F:	DB TECHNOLOGIES - FLYBAR FOR VIO S218F (1 PIECE)
IS 26TB:	DB TECHNOLOGIES - PASSIVE WOODEN SPEAKER, 2X6.5"+DRIVER, 8ohms, 250W RMS POWER, 00X15DEGREE WAVEGUIDE, PHOENIX CONNECTION, BLACK FINISH, SAME ACCESSORIES AS VIO X 206 (3 PIECES)
DVX DM28:	DB TECHNOLOGIES - 2-WAY STAGE MONITOR, 2X"RCF NEODYMIUM WOOFERS WITH 2.5" VC, 1"X1" NEODYMIUM HF-DRIVER WITH 1.75" VC, ASYMMETRICAL CD-HORN (30 DEGREE+45 DEGREE v), 750W/RMS, 70 Hz-20KHz, SPL MAX, 130dB, DIMENSIONS 480X265X418mm, WEIGHT 14kg/30.8 LBS (2 PIECES)
ALC-1604D:	COMMUNITY - 4 CHANNEL, 1600W AMPLIFIER, WITH ONBOARD DSP AND DANTE DIGITAL NETWORKING (1 PIECE)
RDNET CONTROL 8:	DB TECHNOLOGIES - RDNET CONTROL 8 IS A HARDWARE INTERFACE TO CONNECT DB TECHNOLOGIES RDNET COMPATIBLE DEVICES (DVA T12, T8, DVA S30N, ETC.), TO A PERSONAL COMPUTER (PC) BY MEANS OF A USB CONNECTION

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ALTERNATES

ALTERNATE #1: REPLACEMENT OF MECHANICAL PIPING:

IN LIEU OF THE EXISTING CHILL WATER PIPING AND HEATING WATER PIPING TO REMAIN "AS-IS", PROVIDE ADDITIONAL COST TO REMOVE AND REPLACED WITH NEW CHILL WATER PIPING AND HEATING WATER PIPING. SEE MECHANICAL DRAWINGS FOR SPECIFIC INFORMATION.

ALTERNATE #2: UPGRADE LIGHTING FIXTURE D6 (HOUSE LIGHTING):

IN LIEU OF THE SPECIFIED D6 LIGHTING FIXTURE, PROVIDE A DMX SYSTEM-COMPATIBLE LIGHTING FIXTURE AND OMIT THE CURRENTLY SPECIFIED DMX CONVERTOR PANEL. SEE ELECTRICAL FOR SPECIFIC INFORMATION.

LIFT EQUIPMENT LIMITS

THE MAIN AUDITORIUM FLOOR HAS A LIVE LOAD OF 100 PSF AND A MAXIMUM LIFT WEIGHT OF 1,700 LBS.

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SHEET INDEX

ADD-003 (INDEX REORGANIZED W/ REVISION TRACKING INFO.)

DRAWING NUMBER	DRAWING DESCRIPTION	SHEET ISSUE DATE	CURRENT REVISION DESCRIPTION	CURRENT REVISION DATE
COVER	COVER, APPLICABLE CODES, BUILDING DATA	03/08/24	ADDENDUM #4 (SFM COMMENTS)	04/25/24
INDEX	INDEX, GENERAL NOTES, PROJECT TEAM, VICINITY MAP	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
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A0.2	FIRE-RATED DESIGN ASSEMBLIES	03/08/24		
A1.0	OVERALL PLANS - SCOPE OF WORK DIAGRAMS	03/08/24		
A1.0a	OCCUPANCY SEPARATION BUILDING SECTION DIAGRAM	03/08/24		
A1.0b	LIFE SAFETY EGRESS DIAGRAMS	04/22/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
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AD1.2	LEVELS 3 & 4 - ENLARGED DEMOLITION PLANS	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
AD9.1	LEVELS 1 & 2 - DEMOLITION REFLECTED CEILING PLANS	03/08/24		
AD9.2	LEVELS 3 & 4 - DEMOLITION REFLECTED CEILING PLANS	03/08/24		
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A2.3	INTERIOR/EXTERIOR RENDERINGS	03/08/24		
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S1.2	THIRD FLOOR FRAMING PLAN & DETAILS	03/08/24	ADDENDUM #4 (SFM COMMENTS)	04/25/24
S1.3	FOURTH FLOOR & ATTIC FRAMING PLAN	03/08/24	ADDENDUM #4 (SFM COMMENTS)	04/25/24
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MD1.3	THIRD FLOOR HVAC DEMOLITION PLAN	03/08/24		
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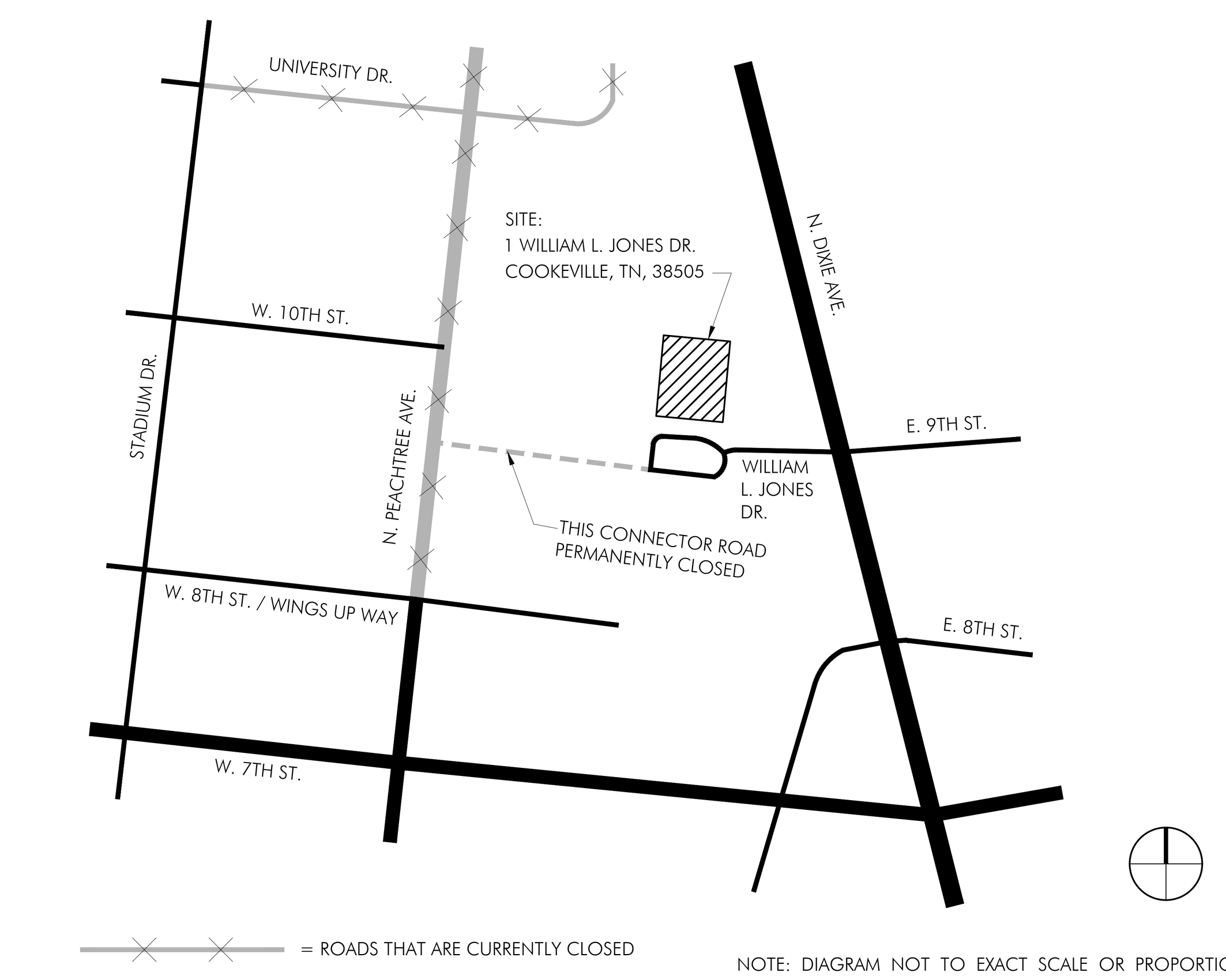
E2.2	ELECTRICAL LIGHTING PLAN - LEVEL 2	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
E2.3	ELECTRICAL LIGHTING PLAN - LEVEL 3	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
E3.2	ELECTRICAL POWER & SYSTEMS PLAN - LEVEL 2	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
E3.3	ELECTRICAL POWER & SYSTEMS PLAN - LEVEL 3 & 4	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
E3.4	ELECTRICAL ATTIC PLAN	03/08/24		
E4.1	ELECTRICAL CONDUIT PLAN - LEVEL 1	03/08/24		
E5.0	ELECTRICAL POWER DISTRIBUTION DIAGRAM & SCHEDULES	03/08/24		
E7.1	ELECTRICAL DETAILS	03/08/24		
	INTERIOR DESIGN			
ID1.0	INTERIOR FINISH LISTING AND NOTES	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
ID1.1	INTERIOR FINISH PLAN AND SCHEDULE - LEVEL 1 & 2	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24
ID1.2	INTERIOR FINISH PLAN AND SCHEDULE - LEVEL 3 & 4	03/08/24	ADDENDUM #3 (SFM COMMENTS)	04/22/24

ADD-003 (SHEET ADDED)

ADD-004 (SHEET ADDED)

ADD-003 (MISSING TITLE ADDED TO INDEX, BUT SHEET WAS PREVIOUSLY IN SET)

VICINITY MAP



NOTE: DIAGRAM NOT TO EXACT SCALE OR PROPORTION

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4.25.24

ISSUED:	03.08.24
SBC PROJECT #:	364/011-05-2021
GMCA PROJECT #:	202113 TDH

REVISED:

#	DATE	DESCRIPTION
ADD-003	04.22.24	ADDENDUM #3
ADD-004	04.25.24	ADDENDUM #4

INDEX

STRUCTURAL GENERAL NOTES

DESIGN AND CODE INFORMATION

1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION.

2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.

3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT FOUR COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY THREE SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.

4. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED, CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED, THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

5. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.

6. LIVE LOADS:
   - OFFICES: 50 PSF
   - FLOORS: 100 PSF
   - ROOFS: 20 PSF

7. ROOF LOADS:
   - GROUND SNOW LOAD: 20 PSF
   - SNOW EXPOSURE Ce: .9
   - SNOW IMPORTANCE I: 1.0
   - THERMAL FACTOR Ct: 1.0
   - FLAT ROOF SNOW LOAD: 14 PSF

8. WIND LOADS:
   - BASIC WIND SPEED: 105 MPH
   - WIND EXPOSURE FACTOR: B
   - INTERNAL PRESSURE COEFFICIENT: .18
   - CLADDING LOAD: 25 PSF

9. SPECIAL LOADS FOR ITEMS TO BE DESIGNED BY OTHERS:
   - STAIRS: 100 PSF
   - HANDRAILS: 50 PLF
   - VEHICLE BARRIERS: 6,000 POUNDS

ADD-004

10. SEISMIC LOADS:
    - SEISMIC RISK CATEGORY: III
    - SEISMIC IMPORTANCE Ie: 1.25
    - .2 SEC SPECTRAL RESPONSE ACCELERATION Ss: 0.224
    - 1.0 SEC SPECTRAL RESPONSE ACCELERATION S1: 0.107
    - SITE CLASS: D (ASSUMED)
    - DESIGN SPECTRAL RESPONSE SDS: 0.239
    - DESIGN SPECTRAL RESPONSE SD1: 0.17
    - SEISMIC DESIGN CATEGORY: C

SPECIAL INSPECTIONS AND TESTING

1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET S0.2.

2. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM THE FOLLOWING FABRICATION INSPECTIONS AND TESTING PER SECTION 1704.2.1:

   WOOD TRUSSES IF FABRICATOR IS NOT TPI CERTIFIED
   STRUCTURAL STEEL IF FABRICATOR IS NOT AISC CERTIFIED
   PRECAST CONCRETE IF FABRICATOR IS NOT PCI CERTIFIED

3. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SEISMIC INSPECTIONS AND TESTING PER SECTION 1707 AND 1708.

STRUCTURAL OBSERVATIONS

1. THE CONTRACTOR/OWNER SHALL EMPLOY A LICENSED STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.

REINFORCED CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318-11).

2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).

3. THE COMPRESSIVE STRENGTH AT 28 DAYS OF ALL CAST IN PLACE CONCRETE SHALL BE:
   - 4000 PSI - SLABS ON GRADE
   - 4000 PSI - PIERS, WALLS
   - 4000 PSI - BEAMS, ELEVATED SLABS AND COLUMNS
   - 3000 PSI - ALL OTHER CONCRETE
   - (SEE CIVIL DRAWINGS FOR SITE CONCRETE STRENGTH REQUIREMENTS)

4. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318-11, UNLESS NOTED OTHERWISE.

5. CLEAR CONCRETE COVER FOR REINFORCING STEEL:
   - SLABS: 3/4"
   - GRADE BEAMS AND PIERS: 2"
   - WALLS: 2" EXTERIOR FACES
     3/4" INTERIOR FACES
   - MASONRY WALLS: LOCATE IN CENTER OF WALL (U.N.O.)
   - SLAB ON GRADE: 3/4" TOP STEEL
     1-1/2" BOTTOM STEEL
   - BEAMS AND COLUMNS: 1-1/2" FORMED EDGES
   - FOOTINGS: 2" FORMED EDGES
     3" CAST AGAINST GROUND

6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.

7. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2-#6 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.

8. CONSTRUCTION JOINTS IN BEAMS, GIRDERS AND SLABS SHALL OCCUR AT MID-SPAN AND SHALL BE KEYED. IN ALL CASES THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. KEYWAYS SHALL BE ONE THIRD THE DEPTH OF THE MEMBER AND PLACED AT MID-DEPTH.

9. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.

10. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.

11. CAMBER CONVENTIONALLY REINFORCED CONCRETE BEAMS AND JOISTS 1/8 INCH PER 10 FEET OF SPAN.

12. THE SLAB ON GRADE SHALL BE CONSTRUCTED OF CONCRETE WITH A DRY UNIT WEIGHT OF 145 PCF AT THE END OF 28 DAYS.

13. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA:

    SPECIFIED OVERALL F NUMBERS
    FLATNESS FF = 35
    LEVEL FL = 25

    MINIMUM LOCAL F NUMBERS
    FLATNESS FF = 24
    LEVEL FL = 17

14. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.

15. THE CONCRETE FILL ON COMPOSITE DECK SHALL BE LIGHTWEIGHT STRUCTURAL CONCRETE (107-113 PCF) WITH 4% TO 7% ENTRAINED AIR AND DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI (f'c) IN 28 DAYS.

CONCRETE MASONRY

1. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS.

2. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (F'M) OF 1500 PSI.

3. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY," ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (F'M) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES. WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.

4. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.

5. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.

6. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.

7. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.)

8. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN" FOURTEENTH EDITION.

2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.

3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.

4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.

5. USE DIRECT TENSION INDICATORS AND HARDENED WASHERS WITH ALL HIGH STRENGTH BOLTS OR USE LOAD INDICATOR BOLTS.

6. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.

7. WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAGE.

8. MISCELLANEOUS ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS. ANCHOR RODS AT COLUMN BASE PLATES SHALL BE ASTM F-1554 GRADE 55. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION. COLUMN ANCHOR RODS SHALL BE HELD IN PLACE BY TEMPLATES AND POSITIONED PRIOR TO CASTING CONCRETE.

9. FRAMED BEAM CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE REACTION SHOWN FOR THE ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL.

10. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.

11. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.

12. THE STEEL JOIST MANUFACTURER SHALL INVESTIGATE THE ROOF JOISTS FOR A NET UPLIFT FORCE OF 10 PSF AND FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.

13. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL, WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMED SURFACE.

14. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SHOP DRAWINGS SHALL INCLUDE NUMBER, SPACING, AND DISTANCE FROM BEAM CENTERLINE OF SHEAR STUDS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.

LUMBER FRAMING

1. ALL NON-PREFABRICATED LOAD BEARING FRAMING MEMBERS SHALL BE #2 SOUTHERN YELLOW PINE 19% MOISTURE CONTENT UNLESS OTHERWISE NOTED.

2. STUDS IN LOAD BEARING WALLS MAY BE DOUGLAS FIR, SOUTHERN YELLOW PINE OR SPRUCE (#2 OR CONSTRUCTION GRADE), UNLESS NOTED OTHERWISE.

3. ALL PLYWOOD SHEATHING SHALL BE APA RATED, SEE PLAN.

4. THE ALLOWABLE STRESSES FOR FIRE RETARDANT TREATED LUMBER SHALL BE REDUCED 10%.

5. LVL AND PSL LUMBER SHALL BE MICROLAM OR PARALLAM LUMBER AS MANUFACTURED BY TRUS JOIST.

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ISSUED: 03.08.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

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ADD-004	04.25.24	ADDENDUM #4

GENERAL NOTES

S0.1

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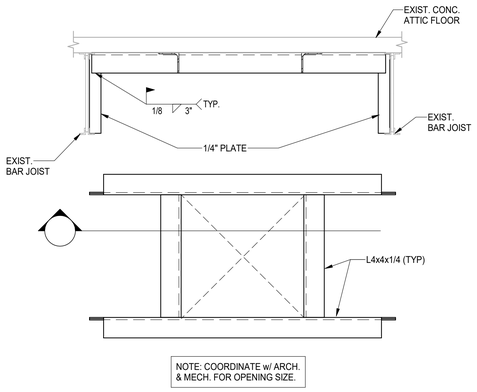
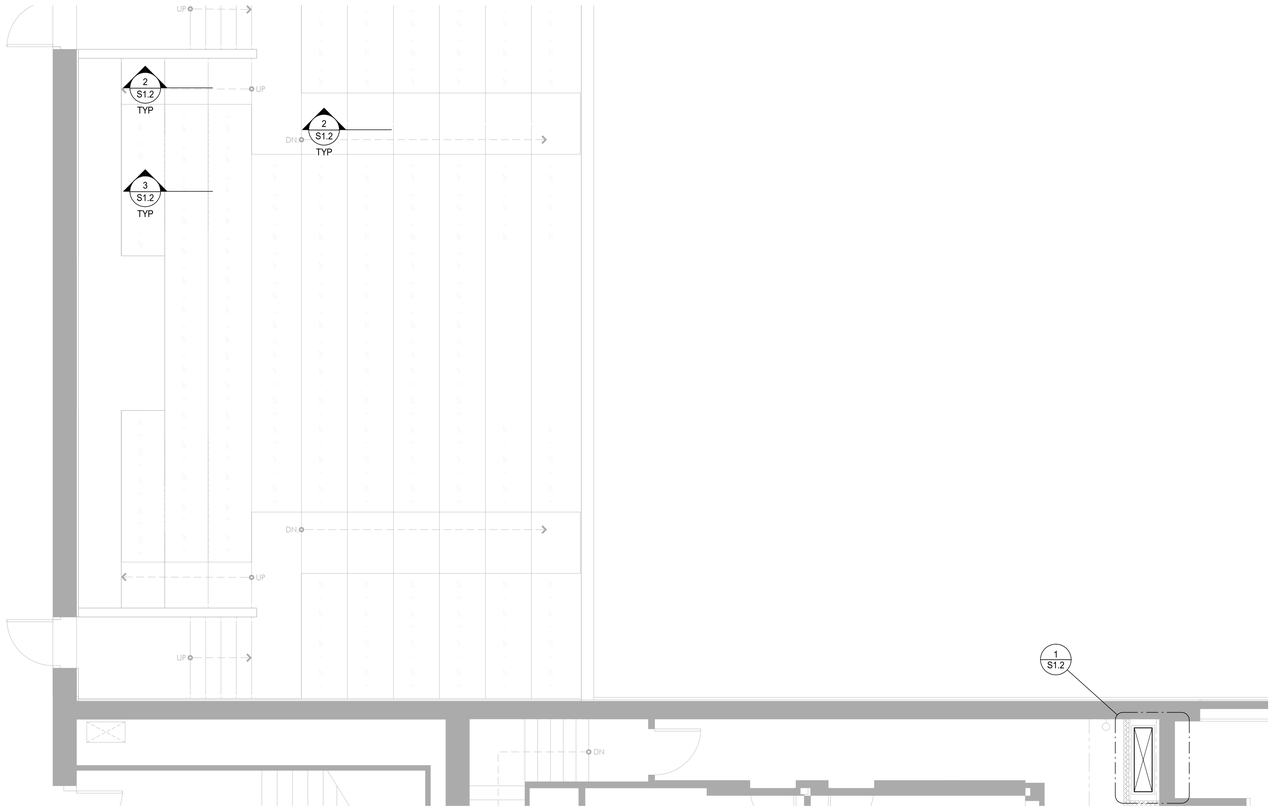
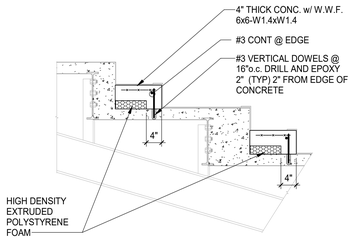


NOTE: COORDINATE w/ ARCH.
& MECH. FOR OPENING SIZE.

ADD-004
1 TYPICAL ATTIC FLOOR OPEN FRAME
SCALE: 1" = 1'-0"



THIRD FLOOR FRAMING PLAN
SCALE: 1/4" = 1'-0"



2 BALCONY SECTION
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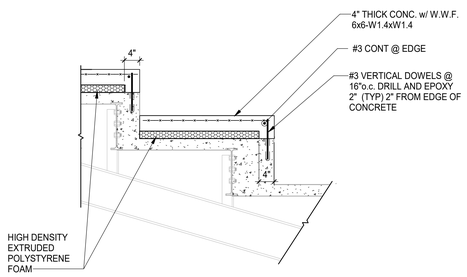

3 BALCONY SECTION
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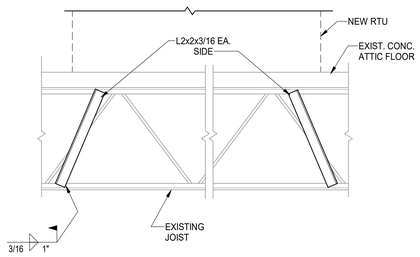

ADD-004
4 SECTION
SCALE: NONE

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THIRD LEVEL FRAMING
PLAN & DETAILS

S1.2

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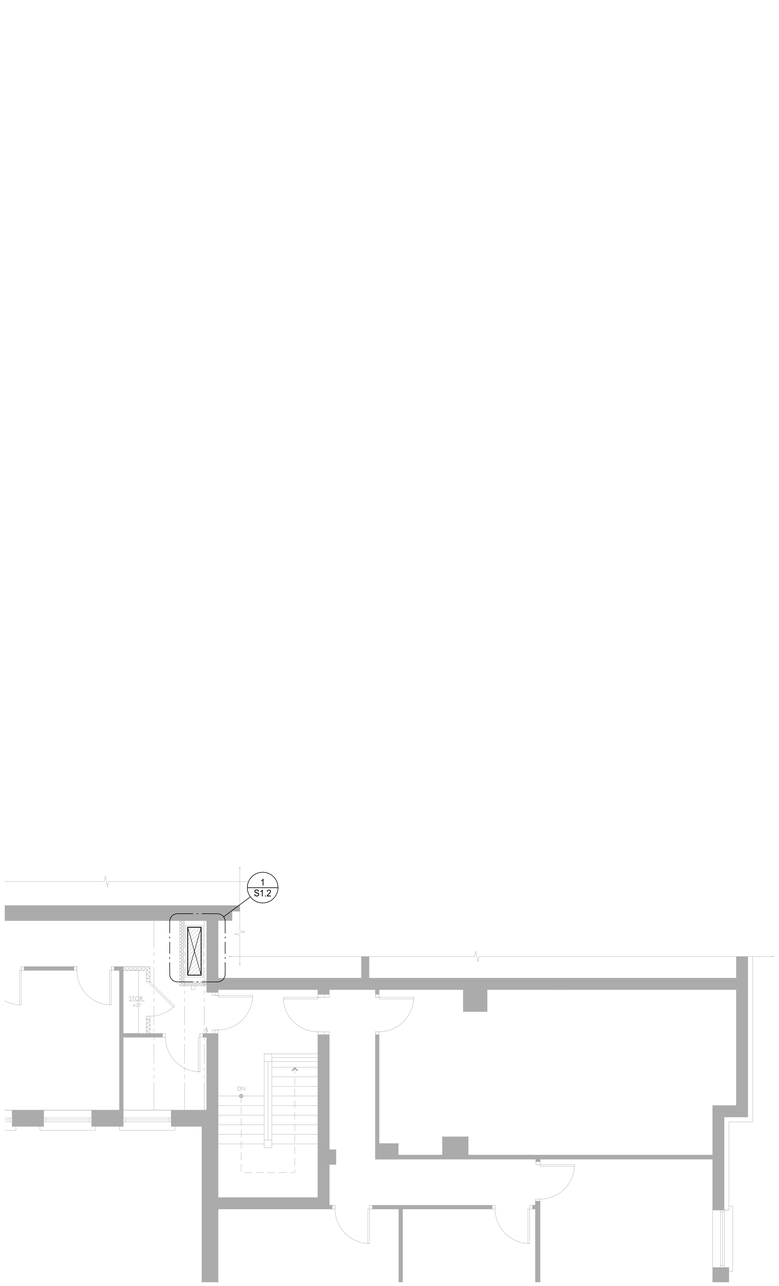
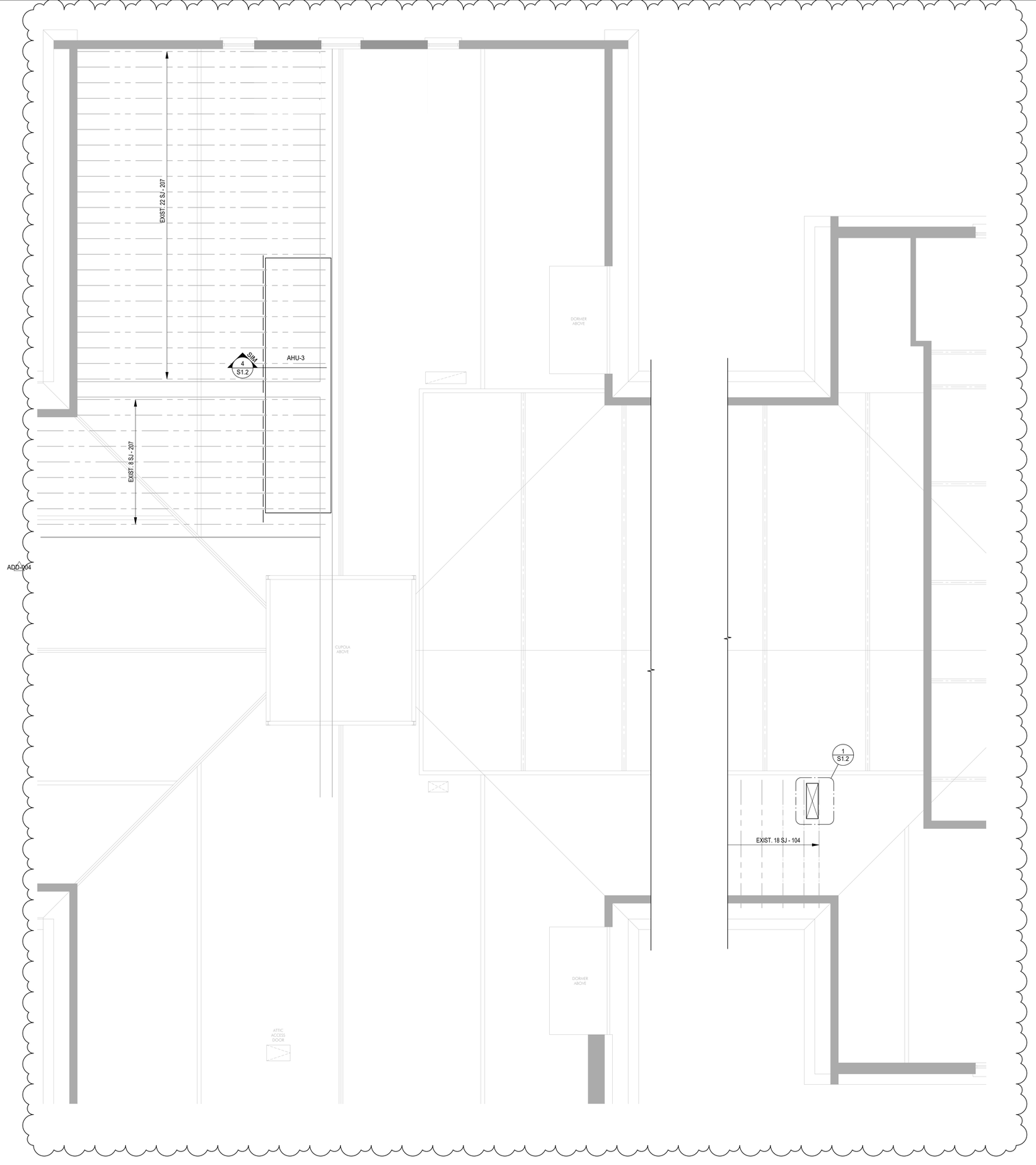


FOURTH FLOOR FRAMING PLAN
SCALE: 3/16" = 1'-0"



ATTIC FRAMING PLAN
SCALE: 3/16" = 1'-0"

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FOURTH FLOOR & ATTIC FRAMING PLANS

S1.3

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HVAC GENERAL NOTES

1. ALL DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR IS REQUIRED TO REROUTE DUCTWORK AND PIPE, PROVIDE OFFSETS, 90 AND 45 DEGREE BENDS, CHANGE ASPECT RATIO OF DUCTWORK AS REQUIRED IN COORDINATION WITH OTHER TRADES AT NO ADDITIONAL COST TO THE PROJECT.
2. ALL THERMOSTATS WILL BE INSTALLED 45" ABOVE FINISHED FLOOR TO CENTERLINE OF THERMOSTAT TO MATCH LIGHT SWITCHES UNLESS OTHERWISE NOTED.
3. ROUTE NEW DUCTWORK ABOVE CEILING TIGHT TO STRUCTURE. RELOCATE OR OFFSET EXISTING PIPING, CONDUIT AND DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW WORK AT NO ADDITIONAL COST TO THE PROJECT. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. DO NOT ROUTE ANY DUCTWORK OR PIPING DIRECTLY ABOVE OR 42" IN FRONT OF ELECTRICAL SWITCHGEAR, PANELS OR TRANSFORMERS.
5. CONTRACTOR SHALL COORDINATE DIFFUSER FRAMES WITH REFLECTED CEILING PLAN TO DETERMINE TYPE OF FRAME REQUIRED, GYP-BOARD MOUNTING OR LAY-IN TYPE.
6. FLEXIBLE DUCT SHALL BE LIMITED TO A MAXIMUM LENGTH OF 5 FEET WITH NO MORE THAN 90 DEGREES OF ACCUMULATED BEND.
7. PROVIDE MANUAL VOLUME DAMPERS IN MAIN SUPPLY, RETURN AND EXHAUST TRUNKS WHERE SHOWN ON DRAWINGS FOR BALANCING AS INDICATED AND AT LOCATIONS REQUIRED BY INDEPENDENT TEST AND BALANCING AGENCY. SEE DETAIL FOR EXACT LOCATION REQUIREMENTS OF MANUAL VOLUME DAMPERS.
8. COORDINATE DIFFUSERS, RETURN AND EXHAUST GRILLES WITH LIGHTS AND ARCHITECTURAL REFLECTIVE CEILING PLANS.
9. ALL DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR IN INCHES UNLESS OTHERWISE NOTED.
10. PROVIDE FLEXIBLE CONNECTION ON DUCTWORK AT ALL MECHANICAL EQUIPMENT.
11. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE SYSTEMS AND VERIFY DIMENSION CONDITIONS PRIOR TO INSTALLATION. PROVIDE MANUFACTURERS' RECOMMENDED CLEARANCE REQUIREMENTS ON ALL AC UNITS AND EQUIPMENT FOR SERVING CLEANING, COIL REMOVAL, AND FILTER CHANGING.
12. PROVIDE IDENTIFICATION STENCILING ON ALL CONCEALED ACCESS DOORS FOR FIRE DAMPERS AND COMBINATION FIRE/SMOKE DAMPERS.
13. HVAC HOT & CHILLED WATER PIPING 2" AND SMALLER TO TYPE "L" HARD DRAWN SEAMLESS ASTM B-88 COPPER. SEE SPECIFICATIONS.
14. HVAC HOT & CHILLED WATER PIPING 2-1/2" AND LARGER TO BE WELDED CARBON STEEL. SEE SPECIFICATIONS.
15. INSULATION FOR CHILLED WATER PIPING TO BE 1-1/2" THICK FOR 1-1/2" AND SMALLER PIPE, 1-1/2" THICK FOR 2" AND LARGER PIPE. SEE SPECIFICATIONS.
16. INSULATION FOR HEATING HOT WATER TO BE 1-1/2" THICK FOR 1-1/4 AND SMALLER PIPE, 2" THICK FOR 1-1/2" AND LARGER PIPE. SEE SPECIFICATIONS.
17. INSULATION FOR STEAM AND CONDENSATE PIPING TO BE 2-1/2" THICK FOR 3" AND SMALLER PIPE, 3" THICK FOR 4" AND LARGER PIPE. SEE SPECIFICATIONS.
18. EACH SUBCONTRACTOR SHALL PERFORM CUTTING AND PATCHING OF PENETRATIONS FOR THEIR OWN DISCIPLINE.
19. UNLESS SPECIFICALLY NOTED OTHERWISE, NO T-DRILL FITTINGS OR TYPE M COPPER PIPING IS ALLOWED FOR ANY SERVICE.
20. INTERMEDIATE SUPPORTS SUCH AS ANGLES, UNISTRUT, ETC. NECESSARY FOR SUPPORT OF PIPING, DUCTWORK AND EQUIPMENT AS WELL AS ANGLE FRAMING FOR DAMPERS SHALL BE FURNISHED AND INSTALLED BY MECHANICAL DIVISION. STRUCTURAL OPENINGS REQUIRING FRAMING SHALL BE FURNISHED UNDER STRUCTURAL DIVISION.
21. MECHANICAL CONTRACTOR TO PROVIDE COORDINATION DRAWINGS DEVELOPED IN 3 DIMENSIONAL CAD SOFTWARE FOR MECHANICAL SYSTEMS AND SHALL COORDINATE WITH ALL TRADES INCLUDING STRUCTURAL, DUCTWORK, PIPING, ELECTRICAL, COMMUNICATION SYSTEMS, FIRE PROTECTION AND MECHANICAL PIPING PRIOR TO FABRICATION OR INSTALLATION OF SYSTEMS.
22. ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH THE FEDERAL, STATE AND LOCAL CODES AND LAWS. SEE ARCHITECTURAL DRAWINGS FOR APPLICABLE CODES. CONTRACTOR SHALL PAY FOR FEES AND PERMITS.
23. ALL DUCTWORK SHALL BE SHEET METAL IN ACCORDANCE WITH THE LATEST SMACNA HVAC DUCT CONSTRUCTION STANDARDS. DUCT DIMENSIONS ARE INSIDE CLEAR.
24. INSULATE BACK OF DIFFUSERS SIMILAR TO DUCTWORK IF SYSTEM USES A DUCTED RETURN.
25. ALL ROUND TAPS ON LOW PRESSURE DUCT SHALL BE MADE USING STICK-ON METAL COLLARS WITH DAMPER (SOUTHWARK MODEL ATD OR EQUAL). NO SCOOPS ARE ALLOWED.
26. SEAL ALL DUCT (SUPPLY, RETURN, OUTSIDE AIR, EXHAUST) JOINTS WITH MEI EDS 44-55 OR 44-52; DESIGN POLYMERICS DP1010; IRON GRIP OR EQUAL. APPLY WHEN ENVIRONMENT IS BETWEEN 50 deg F TO 95 deg F.
27. ALL SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK SHALL BE INTERNALLY LINED WITH 1.5" ACOUSTICAL LINER (EQUAL TO JOHNS MANVILLE LINACOUSTIC R-300) WITH R-VALUE OF AT LEAST 6.0. INSULATE TOPS OF ALL SUPPLY DIFFUSERS WITH 2" THICK INSULATION. RETURN DUCT NEED NOT BE INSULATED UNLESS ON TOP FLOOR WITH ROOF ABOVE. DUCTWORK LOCATED IN ATTIC SHALL HAVE THE INTERNAL LINER THICKNESS INCREASED TO 2" WITH R-VALUE OF AT LEAST 8.0.
28. CONDENSATE DRAIN PIPING SHALL BE TYPE M HARD COPPER WITH 1/2" ARMAFLEX INSULATION.
29. PIPE HANGERS SHALL BE GRINNELL OR EQUAL WITH HANGER TYPE MATCHING THE REQUIREMENT. MAXIMUM ALLOWABLE SPACING SHALL BE AS FOLLOWS:

3/4" to 1-1/4"	dia. PIPE	6 FOOT ON CENTER SPACING
1-1/2" to 2-1/2"	dia. PIPE	10 FOOT ON CENTER SPACING
3" to 5"	dia. PIPE	12 FOOT ON CENTER SPACING
6" to 8"	dia. PIPE	14 FOOT ON CENTER SPACING

30. ALL MATERIALS AND WORKMANSHIP SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR.
31. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN ON MECHANICAL DRAWINGS. CONNECTIONS TO EXISTING SERVICES ARE ENGINEERS BEST UNDERSTANDING BASED ON AVAILABLE INFORMATION, CONTRACTOR SHALL ROUTE DUCT AND PIPING AS NECESSARY TO MAKE CONNECTIONS TO EXISTING SERVICES AS THEY EXIST IN THE FACILITY REGARDLESS OF HOW THEY'RE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COMMUNICATE ANY DEVIATION FOUND PRIOR TO CONSTRUCTION.

HVAC DEMOLITION NOTES

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CONDITION OF EXISTING EQUIPMENT, EXACT SIZES OF EXISTING DUCT AND PIPING, ETC. BEFORE DEMOLITION WORK BEGINS. REPORT ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL FIELD CONDITIONS TO ARCHITECT AND ENGINEER PRIOR TO THE COMMENCEMENT OF DEMOLITION WORK.
2. DEMOLITION WORK SHALL BE PHASED TO ACCOMPLISH REPLACEMENT WITH MINIMUM AMOUNT OF DOWNTIME.
3. SCHEDULE NEW AND DEMOLITION WORK IN ADVANCE WITH OWNER.
4. REMOVE EXISTING DUCTWORK (AND ASSOCIATED HANGERS, STRAPS, AND SUPPORT RODS), PIPING, DIFFUSERS, GRILLES IN THE AREA OF DEMOLITION WHICH ARE NOT SHOWN TO REMAIN OR BE REUSED ON THE DRAWING. IF THE EXISTING DUCTWORK, PIPING, DIFFUSERS, OR GRILLES SHOWN TO REMAIN ARE IN CONFLICT WITH THE NEW WORK SHOWN THEY SHALL BE RELOCATED AS REQUIRED. DEMO NOTES HAVE BEEN PLACED ON THE PLANS TO DEPICT ITEMS OF SPECIAL INTEREST AND DO NOT NECESSARILY INCLUDE ALL DEMO WORK. NO CHANGE ORDERS WILL BE ENTERTAINED FOR DEMO ITEMS REQUIRED IN THE AREA OF DEMOLITION.
5. WHERE EXISTING PIPING IS REMOVED CAP PIPING CONNECTIONS TO REMAIN AT MAINS AND APPLY NEW INSULATION.
6. ALL EQUIPMENT TO BE REMOVED IS THE PROPERTY OF THE OWNER AND SHALL BE TURNED OVER TO THE OWNER'S REPRESENTATIVE BY THE CONTRACTOR. AT THE DISCRETION OF THE OWNERS' REPRESENTATIVE, ANY OR ALL OF SUCH EQUIPMENT MAY BE REFUSED AND RELEASED TO THE CONTRACTOR FOR DISPOSAL.
7. CONTRACTOR SHALL VERIFY CLEARANCE REQUIREMENTS AND INDICATE ROUTING OF NEW DUCTWORK BEFORE FABRICATION BEGINS AS RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
8. IN AREAS OF RENOVATION, INSTALLATION OF NEW PIPING, DUCTWORK AND EQUIPMENT WILL REQUIRE REMOVAL OF THE EXISTING CEILING AND THE CEILING GRID. SURVEY THE SITE AND BE INFORMED OF EXISTING CONDITIONS THAT WILL REQUIRE CEILING REMOVAL. INCLUDE THE COST OF THE CEILING WORK OR COORDINATE ITS REMOVAL WITH THE GENERAL CONTRACTOR.
9. FIRESTOPPING OF EXISTING PIPING, CONDUIT AND DUCTWORK WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED BY THE GENERAL CONTRACTOR. FIRESTOPPING OF NEW PIPING, CONDUIT AND DUCTWORK WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED BY THE INSTALLING SUBCONTRACTOR.

QUALITY ASSURANCE

1. CONTRACTOR IS RESPONSIBLE TO BE IN FULL COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES. SEE ARCHITECTURAL DRAWINGS FOR APPLICABLE CODES. NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN DESIGN AND LOCAL CODES. CONTRACTOR'S PRICING TO REFLECT INSTALLATION IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
2. NOTIFY ENGINEER OF ANY CONFLICTS ON THE DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS. FAILURE TO NOTE CONFLICTS WILL RESULT IN ADDITIONAL COSTS BEING THE RESPONSIBILITY OF THE CONTRACTOR.
3. COMPLY WITH APPLICABLE REQUIREMENTS OF RECOGNIZED INDUSTRY ASSOCIATIONS WHICH PUBLISH STANDARDS FOR THE VARIOUS TRADES.
4. EMPLOY ONLY QUALIFIED JOURNEYMEN FOR THIS WORK.
5. ADDITIONAL INSTALLATION COSTS ASSOCIATED WITH SUBSTITUTED EQUIPMENT REQUIRING ADDITIONAL WORK ON THE PART OF THIS CONTRACTOR OR OTHER SUBCONTRACTORS TO SATISFY THE MANUFACTURER'S INSTALLATION REQUIREMENTS SHALL BE THE RESPONSIBILITY OF THE SUBMITTING CONTRACTOR.
6. SUPERVISE ALL WORK BY COMPETENT MECHANIC SPECIFICALLY QUALIFIED IN HIS DISCIPLINE.
7. CONTRACTOR IS REQUIRED TO DEMONSTRATE COMPLETE FUNCTIONALITY OF ALL DESIGNED AND INSTALLED SYSTEMS TO DESIGN TEAM UPON COMPLETION OF TEST & BALANCE OR SUBSTANTIAL COMPLETION. CONTRACTOR IS TO HAVE ALL REQUIRED PERSONNEL ON HAND, INCLUDING, BUT NOT LIMITED TO; MECHANICAL, ELECTRICAL, TEST AND BALANCE AGENT, AND CONTROLS.
8. FACTORY START-UP SHALL BE PROVIDED FOR ALL NEW EQUIPMENT. ALL EQUIPMENT WITH COMPRESSORS AND/OR EQUIPMENT CONTROLLED BY MICRO-PROCESSORS IS TO BE STARTED, ADJUSTED, AND VERIFIED FOR PROPER OPERATION WITH RESPECT TO THIS PROJECT BY FACTORY TRAINED AND CERTIFIED TECHNICIAN. NO EXCEPTIONS WILL BE ALLOWED.

REQUIRED COORDINATION

1. VISIT SITE AND BE INFORMED OF CONDITIONS UNDER WHICH WORK MUST BE PERFORMED.
2. NO SUBSEQUENT ALLOWANCE WILL BE MADE BECAUSE OF ERROR OR FAILURE TO OBTAIN NECESSARY INFORMATION TO COMPLETELY ESTIMATE AND PERFORM ALL WORK INVOLVED.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY ALL DEVIATIONS ON THE SHOP DRAWINGS FROM THE SPECIFIED ITEM AND REVIEW OF THE SHOP DRAWINGS WITH NO EXCEPTIONS TAKEN WILL NOT BE CONSIDERED ACCEPTANCE OF THE DEVIATION UNLESS IT'S BEEN EXPLICITLY IDENTIFIED.
4. CAREFULLY EXAMINE DRAWINGS AND SPECIFICATIONS TO BE THOROUGHLY FAMILIAR WITH ITEMS WHICH REQUIRE PLUMBING OR HVAC CONNECTIONS AND COORDINATION.
5. NOTIFY OTHER TRADES OF ANY DEVIATIONS OR SPECIAL CONDITIONS NECESSARY FOR INSTALLATION OF WORK.
6. RESOLVE INTERFERENCES BETWEEN WORK OF OTHER TRADES PRIOR TO INSTALLATION OR FABRICATION.
7. ADVISE OTHERS TRADES TO LEAVE PROPER CHASES AND OPENINGS.
8. COORDINATE ALL NECESSARY POWER CONNECTIONS AS RECOMMENDED BY THE MANUFACTURERS OF INSTALLED EQUIPMENT WITH ELECTRICAL TRADESMAN.
9. SHOULD THIS COORDINATION BE NEGLECTED, ANY CUTTING AND/OR PATCHING REQUIRED TO BE DONE AT CONTRACTOR'S EXPENSE.

SEISMIC REQUIREMENTS

HVAC DUCTWORK, PIPING, AND EQUIPMENT SHALL BE SUPPORTED BASED ON A SEISMIC CATEGORY "C" WITH Ip = 1.0. MECHANICAL CONTRACTOR IS RESPONSIBLE TO HAVE A LICENSED STRUCTURAL ENGINEER DESIGN SEISMIC SUPPORT SYSTEMS. CONTRACTOR SHALL ALSO COORDINATE WITH LOCAL AHJ TO CONFIRM SEISMIC DESIGN CONSIDERATIONS AND BRACING OF DUCTWORK, PIPING, AND EQUIPMENT.

HVAC LEGEND

Symbol	Description
FD	FIRE DAMPER
SD	SMOKE DAMPER
F/SD	COMBINATION FIRE/SMOKE DAMPER
MVD	MANUAL VOLUME DAMPER
SD	SMOKE DETECTOR (S.D.S., S.D.R., S.D.E.)
SPP	STATIC PRESSURE PROBE
T	THERMOSTAT
H	HUMIDISTAT
	CONNECT TO EXISTING
	POINT OF DISCONNECTION
	SUPPLY DUCT TURNING UP
	SUPPLY DUCT TURNING DOWN
	RETURN DUCT TURNING UP
	RETURN DUCT TURNING DOWN
	EXHAUST DUCT TURNING UP
	EXHAUST DUCT TURNING DOWN
D	DUCT DROPPING
R	DUCT RISING
	ROUND DUCT TURNING UP
	ROUND DUCT TURNING DOWN
	SUPPLY DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
CHWS	CHILLED WATER SUPPLY
CHWR	CHILLED WATER RETURN
CA	COMPRESSED AIR
CWS	CONDENSER WATER SUPPLY
CWR	CONDENSER WATER RETURN
CD	CONDENSATE DRAIN
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
	STEAM
	HOT CONDENSATE RETURN
	PIPE TURNING UP
	PIPE TURNING DOWN
	BALL OR BUTTERFLY VALVE
	GATE VALVE
	O.S.&Y. GATE VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	3 - WAY VALVE

MECHANICAL SHEET INDEX

ADD-04

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ISSUED: 03.08.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

REVISED:

#	DATE	DESCRIPTION
ADD-004	04.25.24	ADDENDUM #4

MECHANICAL LEGENDS AND NOTES

M0.1

DUCT SILENCER

ACCESSORIES AVAILABLE:

DESIGNATION		DS-1	DS-2	
MANUFACTURER		VIBRO-ACOUSTICS	VIBRO-ACOUSTICS	
MODEL		RD-HV-30761HH	EXRD-MHV-30761HH	
SERVICE		AHU-3 SUPPLY	AHU-3 RETURN	
TYPE		DISSIPATIVE	EXTENDED CASING	
DUCT DIMENSIONS		(SEE PLANS)	(SEE PLANS)	
LENGTH (IN.)		72	120	
AIRFLOW		17,850	17,350	
MAX. AIRFLOW P.D. (IN. H20)		0.25	0.35	
SPACE NC CRITERIA		20	20	
MINIMUM DYNAMIC INSERTION LOSS (DB)	63 HZ	5	8	
	125 HZ	7	17	
	250 HZ	16	29	
	500 HZ	31	51	
	1000 HZ	38	55	
	2000 HZ	29	51	
	4000 HZ	20	34	
	8000 HZ	17	19	
ACCESSORIES SUPPLIED		-	-	

REMARKS:
- ALTERNATE MANUFACTURER'S SHALL PROVIDE, FOR APPROVAL, ACOUSTICAL AND PRESSURE DROP CALCULATIONS FOR ALL SYSTEMS TO DEMONSTRATE THAT THE INSTALLED SOUND LEVELS AND PRESSURE DROP WITH SYSTEM EFFECTS MEETS OR EXCEEDS THE SCHEDULED DESIGN CRITERIA.

ADD-04

COMcheck Software Version 4.1.5.1

Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: TTU Derryberry Hall Building Upgrades - Phase 1
Location: Cookeville, Tennessee
Climate Zone: 4a
Project Type: Alteration

Construction Site:
1 William L. Jones Drive
Cookeville, TN 38505

Owner/Agent:

Designer/Contractor:

Mechanical Systems List

Quantity **System Type & Description**

1 AHU-3 (with pre-heat coil) (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Steam, Capacity = 536 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Hydronic Coil, Capacity = 663 kBtu/h, Air Economizer
No minimum efficiency requirement applies
Fan System: AHU-3 -- Compliance (Brake HP method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 17850 CFM, 30.0 motor nameplate hp, 14.0 design brake hp (22.3 max. BHP), 54.8 fan efficiency grade
FAN 2 Return, Single-Zone VAV, 17350 CFM, 20.0 motor nameplate hp, 7.9 design brake hp (12.6 max. BHP), 47.9 fan efficiency grade
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 2.1000 credit
Particulate filtration credit: MERV 13 through 15, 3.8889 credit
Sound attenuation section, 0.6481 credit

1 AHU-3 (reheat coil only) (Single Zone):
Heating: 1 each - Hydronic or Steam Coil, Hot Water, Capacity = 678 kBtu/h
No minimum efficiency requirement applies
Fan System: AHU-3 -- Compliance (Brake HP method) : Passes

Fans:
FAN 1 Supply, Single-Zone VAV, 17850 CFM, 30.0 motor nameplate hp, 14.0 design brake hp (22.3 max. BHP), 54.8 fan efficiency grade
FAN 2 Return, Single-Zone VAV, 17350 CFM, 20.0 motor nameplate hp, 7.9 design brake hp (12.6 max. BHP), 47.9 fan efficiency grade
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 2.1000 credit
Particulate filtration credit: MERV 13 through 15, 3.8889 credit
Sound attenuation section, 0.6481 credit

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project 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 2018 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Austin Estes - Mechanical Engineer, PE — Signature — 4/25/2024
Name - Title — Date

Project Title: TTU Derryberry Hall Building Upgrades - Phase 1 — Report date: 04/24/24
Data filename: P:\2021 Projects\21206 TTU Derryberry Hall Upgrades\1 Drawings\Mechanical\Support Files\21206 COMCheck.cck — Page 1 of 13

PUMP SCHEDULE

ACCESSORIES AVAILABLE:
1 - SUCTION DIFFUSER
2 - FLEX CONNECTOR
3 - VFD WITH BYPASS DISCONNECT BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS
4 - NON-SLAM CHECK VALVE

DESIGNATION	HWP-1	HWP-2	
MANUFACTURER	BELL & GOSSETT	BELL & GOSSETT	
MODEL NO.	E-80 2.5X2.5X9.5C	E-80 2.5X2.5X9.5C	
TYPE	INLINE	INLINE	
SYSTEM	HEATING WATER	HEATING WATER	
FLOW (GPM)	138.1	138.1	
T.D.H. (FT. H2O)	60'	60'	
EFFICIENCY (%)	61.8	61.8	
IMPELLER DIAMETER	8.25"	8.25"	
MIN. MOTOR H.P.	5	5	
MOTOR R.P.M.	1800	1800	
V/ /HZ	208/3/60	208/3/60	
ACCESSORIES SUPPLIED	1 - 4	1 - 4	

REMARKS:

FAN SCHEDULE

ACCESSORIES AVAILABLE:
1 - OUTLET SCREEN
2 - FAN SPEED CONTROLLER
3 - HANGING SPRING ISOLATORS

DESIGNATION	EF-AV		
MANUFACTURER	GREENHECK		
MODEL NO.	CSP-A290		
SERVICE	AV ROOM		
TYPE	INLINE CABINET		
CFM	200		
S.P. (IN. H2O)	0.5		
MAX. FAN RPM	987		
MOTOR INPUT POWER (WATTS)	75		
SONES	2.5		
V/ϕ/HZ	120 / 1 / 60		
WEIGHT (LBS.)	50		
INTERLOCK W/	LINE VOLTAGE THERMOSTAT		
ACCESSORIES SUPPLIED	1 - 3		

REMARKS:

AIR HANDLING UNIT SCHEDULE

ACCESSORIES:

1 - 2-WAY PRESSURE INDEPENDENT CHILLED WATER CONTROL VALVE (SEE CONTROLS)
2 - FACTORY MOUNTED PIEZO RINGS FOR EACH SUPPLY AND RETURN FAN. FLOW TRANSDUCER SHALL BE PARAGON MTSE FOR FAN ARRAYS (BY CONTROLS CONTRACTOR)
3 - DISCONNECT FOR SUPPLY AND RETURN FAN
4 - SUPPLY FANS TO BE DIRECT-DRIVE PLENUM FANS WITH BACKDRAFT DAMPERS TO PREVENT RECIRCULATION
5 - RETURN FANS TO BE DIRECT-DRIVE PLENUM FANS WITH BACKDRAFT DAMPERS TO PREVENT RECIRCULATION
6 - SUPPLY FAN ARRAY VFD WITH BYPASS (SCHNEIDER, ABB, OR TOSHIBA)
7 - RETURN FAN ARRAY VFD WITH BYPASS (SCHNEIDER, ABB, OR TOSHIBA)
8 - DEMAND CONTROL VENTILATION (SEE CONTROLS)
9 - MERV 8 PREFILTER (UPSTREAM OF THE COIL) - 2" PLEATED
10 - MERV 14 PRIMARY FILTER (UPSTREAM OF COILS) - 22" DEEP POCKET FILTER
11 - 3-WAY HOT WATER CONTROL VALVES
12 - SUPPLY SECTION TO HAVE PERFORATED LINER FOR SOUND ATTENUATION
13 - UV LIGHTS MOUNTED DOWNSTREAM OF THE COOLING COILS WIRED SEPARATELY BY ELECTRICAL DIVISION
14 - CONVENIENCE OUTLET AND MARINE LIGHTS WIRED SEPARATELY BY ELECTRICAL DIVISION
15 - DOUBLE WALL CONSTRUCTION
16 - PERFORATED PANELS FOR FAN SECTIONS
17 - SUPPLY AND RETURN FAN INLET BELL SOUND ATTENUATORS
18 - FACE AND BYPASS STEAM PRE-HEAT COIL
19 - ECONOMIZER WITH DRY BULB CONTROL
20 - SMOKE DETECTORS IN SUPPLY AND RETURN DUCTWORK
21 - SPRING VIBRATION ISOLATION BASE RAIL

AHU MODULES TO INCLUDE: 1. RETURN FAN, 2. AIR MIXING SECTION AND ECONOMIZER, 3. ACCESS SECTION, 4. 2" PRE-FILTERS, 5. 14" POCKET FILTERS 6. FACE & BYPASS STEAM PRE-HEAT COIL, 7. ACCESS SECTION, 8. CHILLED WATER COIL, 9. ACCESS SECTION, 10. HEATING WATER RE-HEAT COIL, 11. ACCESS SECTION, 12. SUPPLY FAN (FAN WALL)

DESIGNATION		AHU-3					
MANUFACTURER		TRANE					
MODEL NO.		CSAA035					
TYPE		INDOOR					
SERVICE		AUDITORIUM					
TOTAL SUPPLY CFM		17,850					
TOTAL RETURN CFM		17,350					
O.A. CFM (MAX/MIN)		4,600* / 17,850					
SUPPLY FAN (QTY)		4					
E.S.P. (IN. H2O)		1.5					
B.H.P		22.3					
H.P. (TOTAL)		30					
RETURN FAN (QTY)		4					
E.S.P. (IN. H2O)		1.5					
B.H.P		12.6					
H.P. (TOTAL)		20					
V/ϕ/HZ		208/3/60					
PRE-HEAT	E.A.D.B. (°F)	45					
	L.A.D.B. (°F)	60					
	SOURCE	STEAM					
	PRESSURE (PSI)	15					
	LBS. / HR	566.1					
COOLING	E.A.D.B./E.A.W.B. (°F)	79.2 / 66.7					
	L.A.D.B./L.A.W.B. (°F)	55.0 / 54.6	ADD-04				
	G.P.M.	110.0					
	ROWS/FINS PER INCH	6 / 9.2					
	MAX P.D. (FT. H2O)	10					
	E.W.T. / L.W.T.	45 / 57					
RE-HEAT	E.A.D.B. (°F)	50					
	L.A.D.B. (°F)	85					
	SOURCE	HEATING WATER					
	G.P.M.	45.1					
	MAX P.D. (FT. H2O)	10					
	E.W.T. / L.W.T.	180 / 150					
FILTER (PRE) EFFICIENCY		MERV 8					
FILTER (PRE) S.P. CLEAN/DIRTY		0.25" / 0.75"					
FILTER EFFICIENCY		MERV 14					
FILTER S.P. CLEAN/DIRTY		1.35" / 2.0"					
OPERATING WEIGHT (LBS.)		10,500					
ACCESSORIES		1 - 21					

REMARKS:
- DUCT MTD. SMOKE DETECTORS PROVIDED AND WIRED BY ELEC DIV. INSTALLED BY MECH DIV.
- PROVIDE DDC CONTROLS AND NECESSARY EQUIPMENT BY TEMPERATURE CONTROL CONTRACTOR TO COMMUNICATE WITH EXISTING BAS.
- PROVIDE MAGNEHELIC FILTER GAUGES ON ALL FILTER BANKS.
- SELECT FAN MOTORS SUCH THAT BHP DOES NOT EXCEED 85% OF NAMEPLATE MOTOR HP AND FAN MOTOR HZ IS 60 HZ MAX. FANS SHALL BE SELECTED WITH INTERNAL STATIC TO OVERCOME DIRTY FILTERS AND ANY ADDITIONAL MANUFACTURER COMPONENTS (COILS, BLENDERS, ETC.).
- UPON FAN FAILURE, REMAINING FANS SHALL AUTOMATICALLY CONTINUE TO OPERATE AND SHALL ADJUST RPM TO COMPENSATE FOR LOSS OF A FAN. BAS SHALL BE ALARMED UPON LOSS OF A FAN.
- AHU-3 SHALL BE SHIPPED IN SECTIONS SMALL ENOUGH TO FIT THROUGH EXISTING ATTIC LOUVER AND SHALL BE ASSEMBLED IN ATTIC SPACE. SEE PLANS FOR ADDITIONAL NOTES
- PROVIDE "GLOW-IN-THE-DARK" FAN IDENTIFIERS AND FAN ROTATION ARROW. COORDINATE WITH FACILITY FOR FAN, VFD, AND AFMS NAMING CONVENTION AND TAGGING.
* LISTED MINIMUM OUTDOOR AIR CFM VALUE TO BE USED FOR UNIT PERFORMANCE FOR SUBMITTAL DOCUMENTATION. BALANCE SYSTEM DEMAND-BASED VENTILATION MINIMUM TO 1200 CFM AT INSTALL. (MINIMUM OA = 1200 CFM. MAXIMUM OA = 4600 CFM.)

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Enfinity Project # 21206

ISSUED: 03.08.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

REVISED:

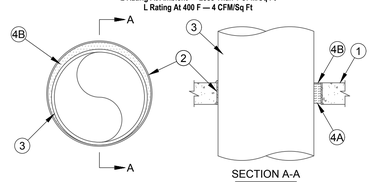
#	DATE	DESCRIPTION
ADD-004	04.25.24	ADDENDUM #4

MECHANICAL SCHEDULES

M0.2

System No. C-AJ-1226

F Rating — 3 Hr
T Rating — 0 Hr
L Rating At Ambient — Less Than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 32 in.
2. Metallic Sleeve — (Optional) Nom 32 in. diam (or smaller) Schedule 40 (or heavier) steel sleeve cast or grouted into floor or wall assembly, flush with floor or wall surfaces or extending a max of 3 in. above floor or beyond both surfaces of wall.

2A. Sheet Metal Sleeve — (Optional) Max 6 in. diam, min 26 ga galv steel provided with a 26 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

2B. Sheet Metal Sleeve — (Optional) - Max 12 in. diam, min 24 ga galv steel provided with a 24 ga galv steel square flange spot welded to the sleeve at approx mid-height, or flush with bottom of sleeve in floors, and sized to be a min of 2 in. larger than the sleeve diam. The sleeve is to be cast in place and may extend a max of 4 in. below the bottom of the deck and a max of 1 in. above the top surface of the concrete floor.

3. Through-Penetrant — One metallic pipe, tube or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space between penetrant and periphery of opening shall be min 0 in. (point contact) to max 1-7/8 in. Penetrant may be installed with continuous point contact. Penetrant to be rigidly supported on both sides of floor or wall assembly. The following types and sizes of metallic penetrants may be used:
   A. Steel Pipe — Nom 30 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe — Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Copper Pipe — Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
   D. Copper Tubing — Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Conduit — Nom 6 in. diam (or smaller) steel conduit.
   F. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing (EMT).
4. Firestop System — The firestop system shall consist of the following:
   A. Packing Material — Min 4 in. thickness of min 4 pcf mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or sleeve or from both surfaces of wall or sleeve as required to accommodate the required thickness of fill material.
   B. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. thickness of fill material applied within the annulus, flush with top surface of floor or sleeve or with both surfaces of wall or sleeve. At the point or continuous contact locations between penetrant and concrete or sleeve, a min 1/4 in. diam bead of fill material shall be applied at the concrete or sleeve/ pipe penetrant interface on the top surface of floor and on both surfaces of wall.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant

*Bearing the UL Classification Mark

PIPE THRU RATED FLOOR DETAIL

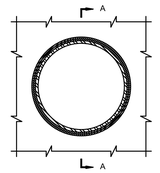
NOT TO SCALE

System No. W-L-1085

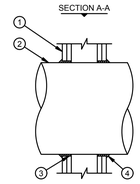
METAL PIPE THROUGH 1-HR. OR 2-HR. GYPSUM WALL ASSEMBLY

F Rating — 1 Hr or 2 Hr
T Rating — 0 Hr
L Rating At Ambient — Less than 1 CFM/Sq Ft
L Rating At 400 F — 4 CFM/Sq Ft

FRONT VIEW



SECTION A-A



WL1085-091699

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in UL Fire Resistance Directory and shall include the following construction features:
   A. Studs - Wall framing may consist of the either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. O.C. Steel studs to be a min 2-1/2 in. wide and spaced max 24 in. O.C.
   B. Wallboard, Gypsum* - 5/8 in. thick, 4 ft wide with square or tapered edge. The gypsum wallboard type, number of layers, fastener type and sheet orientation shall be as specified in the individual Wall and Partition Design. Max diam of opening is 13-1/4 in.

Diam of circular opening cut through gypsum wallboard on each side of wall assembly to be min 1/4 in. to max 1/2 in. larger than the outside diam of the through penetrant (Item 2). The hourly F rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

2. Through Penetrants - One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of the wall assembly. The annular space between the through-penetrant and the periphery of the opening shall be a min 0 in. to max 1/4 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe - Nom 12 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe - Nom 12 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit - Nom 6 in diam (or smaller) steel electrical metallic tubing or steel conduit..
   D. Copper Tubing - Nom 6 in diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe - Nom 6 in. diam (or smaller) Regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* — Sealant — Fill material to be forced into the annulus to maximum extent as possible.
4. Additional fill material to be installed such that a min of 1/2 in crown is formed around the penetrating item and lapping 1/4 in beyond the periphery of the opening.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS605 or FS-One Sealant
   (Note: L ratings apply only when FS-ONE Sealant is used).

*Bearing the UL Classification Mark

PIPE THRU RATED WALL DETAIL

NOT TO SCALE

System No. W-L-5014

F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 1 Hr
L Rating At Ambient - Less Than 1 CFM/sq ft
L Rating At 400 F - Less Than 1 CFM/sq ft

1. **Wall Assembly -** The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
   A. **Studs -** Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 3-5/8 in. (92 mm) wide and spaced max 24 in. (610 mm) OC.
   B. **Gypsum Board* -** 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 18 in. (457 mm).

   The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

1A. **Metallic Sleeve -** (Optional, Not Shown) - Cylindrical sleeve fabricated from min 0.016 in. (0.41 mm) to max 0.105 in. (2.7 mm) thick sheet steel. Length of steel sleeve to be equal to the thickness of wall. Longitudinal seam of sleeve welded or overlapped min 1 in. (25 mm). The ends of the steel sleeve shall be flush or recessed max 1/4 in. (6 mm) from wall surfaces.

2. **Through Penetrants -** One metallic pipe or tubing to be installed either concentrically or eccentrically within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:
   A. **Steel Pipe -** Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. **Iron Pipe -** Nom 12 in. (305 mm) diam (or smaller) cast or ductile iron pipe.
   C. **Copper Tubing -** Nom 4 in. (102 mm) diam (or smaller) Type M (or heavier) copper tube.
   D. **Copper Pipe -** Nom 4 in. (102 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Pipe Coverings* -** One of the following types of pipe coverings shall be used:
   A. **Pipe and Equipment Covering Materials* -** Max 2 in. (51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints secured with metal fasteners or with butt tape supplied with the product. The annular space between insulated penetrating item and the edge of the through opening shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

   See Pipe and Equipment Covering-Materials* - (BRGU) category in the Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.

   B. **Pipe Covering Materials* -** Max 2 in. (51 mm) thick unfaced mineral fiber pipe insulation sized to the outside diam of pipe or tube. Pipe insulation secured with min 18 SWG steel wire spaced max 12 in. (305 mm) OC. The annular space between insulated penetrating item and the edge of the through opening shall be min 0 in. (point contact) to max 1-1/4 in. (32 mm).

   IIG MINWOOL L L C - High Temperature Pipe Insulation 1200, High Temperature Pipe Insulation BWT or High Temperature Pipe Insulation Thermaloc.

   C. **Sheathing Material* -** Used in conjunction with Item 3B. Foil-scrim-kraft or all service jacket material shall be wrapped around the outer circumference of the pipe insulation (Item 3B) with the kraft side exposed. Longitudinal joints and transverse joints sealed with metal fasteners or butt tape.

   See **Sheathing Materials** (BVDV) category in the Building Materials Directory for names of manufacturers. Any sheathing material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less may be used.
4. **Fill, Void or Cavity Material* - Sealant -** Min 5/8 in. (16 mm) thickness of fill material applied within annulus, flush with both surfaces of wall. At point contact location between insulated through penetrant and gypsum board, a min 3/8 in. (10 mm) bead of fill material shall be applied to the insulated through penetrant/gypsum board interface on both sides of the wall.

   SPECIFIED TECHNOLOGIES INC - SpecSeal Series SSS Sealant or SpecSeal LCI Sealant

   *Bearing the UL Classification Mark

Section A-A

W-L-5014

UL LISTED 1 AND 2 HR WALL PENETRATION
2" THICK FIBERGLASS OR MINERAL FIBER INSULATION METALIC PIPING/TUBING

NOT TO SCALE

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TENNESSEE TECH UNIVERSITY
DERRYBERRY HALL
BUILDING UPGRADES - PHASE I
1. WILLIAM L. JONES DRIVE
COOKEVILLE, TN. 38505

enfinity engineering
Synergy Park Building 6
214 Centerview Drive. Suite 200
Brentwood, Tennessee 37027
Phone: 615.377.0093
Enfinity Project # 21206

ISSUED: 04.25.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

REVISED:

#	DATE	DESCRIPTION
ADD-004	04.25.24	ADDENDUM #4

MECHANICAL DETAILS

ADD-04

M3.3

A/S SYSTEM NOTES:

1. PROVIDE COMPLETE A/S SYSTEM COVERAGE FOR ALL AREAS INDICATED ON PLANS AS PER THE REQUIREMENTS OF N.F.P.A. 13 2010 EDITION. AREAS OUTSIDE OF SCOPE OF WORK ARE TO BE PROVIDED WITH FULL SPRINKLER COVERAGE IN A FUTURE PHASE.
2. SPRINKLER OCCUPANCY CLASSIFICATION AS FOLLOWS:
   A. LIGHT HAZARD FOR COMMON AREAS, OFFICE AREAS, AND RESTROOMS.
   B. ORDINARY HAZARD 1 FOR SHELL AREAS.
   C. ORDINARY HAZARD 2 FOR MECH. ROOMS, ELEC. ROOMS, AND LIKE AREAS.
3. PROVIDE QUICK/STANDARD RESPONSE SPRINKLERS THROUGHOUT BUILDING AS INDICATED BELOW:
   A. STANDARD SPRAY QUICK RESPONSE CHROME SEMI-REC. PENDENTS IN LIGHT HAZARD OCCUPANCY AREAS WITH ACOUSTICAL TILE CEILINGS.
   B. STANDARD SPRAY QUICK RESPONSE CHROME SEMI-REC. PENDENTS IN LIGHT HAZARD OCCUPANCY AREAS WITH GYP. BOARD CEILINGS.
   C. STANDARD SPRAY STANDARD RESPONSE BRASS UPRIGHT IN ORDINARY HAZARD AREAS WITH EXPOSED CEILINGS.
4. DO NOT ROUTE SPRINKLER FEED BULK MAIN OR CROSS MAIN ABOVE ELECT. ROOMS OR DIRECTLY OVER ELECTRICAL PANELS
5. SPRINKLER PIPING TO BE AS FOLLOWS:
   A. THREADED PIPE TO BE SCH. 40 BLACK STEEL PIPE W/ SCREWED FITTINGS.
   B. GROOVED PIPE TO BE SCH. 10 BLACK STEEL PIPE W/ GROOVED FITTINGS.
6. SYSTEMS HAVING MORE THAN 20 SPRINKLERS OR HAVING A FIRE DEPARTMENT CONNECTION SHALL PASS A HYDROSTATIC PRESSURE TEST PERFORMED FOR THE ABOVEGROUND PIPING SYSTEM IN ACCORDANCE WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS.
7. PER NFPA 13, A SUPPLY OF AT LEAST SIX SPRINKLERS CORRESPONDING TO THOSE INSTALLED ON THE PROPERTY SHALL BE MAINTAINED ON THE PREMISES. A SPECIAL SPRINKLER WRENCH SHALL ALSO BE PROVIDED FOR EACH TYPE OF SPRINKLER INSTALLED AND KEPT IN THE SPARE HEAD CABINET.
8. ALL PIPING MUST HAVE ADEQUATE HEAT AND/OR INSULATION TO PREVENT PIPE FREEZING. PER NFPA 13: 8.16.4.1.3, PIPING TO BE MAINTAINED BETWEEN A MINIMUM OF 40° TO A MAXIMUM OF 120° AT ALL TIMES.
9. ALL MATERIAL TO BE UL LISTED.
10. PROVIDE INTERMEDIATE OR HIGH TEMP HEADS AT ALL AREAS WHERE WHERE REQUIRED PER NFPA 13.
11. ALL VALVES AND DEVICES MUST BE ACCESSIBLE FOR OPERATION, INSPECTION, AND MAINTENANCE PER NFPA 13: 8.1.2.
12. PER IBC 903.4, A/S SYSTEM IS TO BE SUPERVISED IN ACCORDANCE WITH NFPA 72: 5.10.2 AND NFPA 13: 6.9.1. COORDINATE WIRING AND ALARM CONNECTIONS WITH APPROPRIATE TRADE AND GC.
13. ALL SPRINKLER PIPING AND FITTINGS SHALL BE INSTALLED SO THAT THE SYSTEM CAN BE DRAINED PER NFPA 13: 8.16.2.

A/S SYSTEM INFORMATION:

GENERAL INFORMATION:
TTU DERRYBERRY HALL
COOKEVILLE, TN

SEISMIC DESIGN CATEGORY: C

BUILDING HAZARD CLASSIFICATION:
LIGHT HAZARD OCCUPANCY
W/ AREAS OF ORDINARY HAZARD 1 & 2 OCCUPANCY

TYPE OF A/S SYSTEM:
WET PIPE SPRINKLER SYSTEM

TOTAL AREA TO BE SPRINKLERED
TOTAL LEVEL 2 – 6,715 SQFT
TOTAL LEVEL 3 – 6,690 SQFT

NUMBER OF SPRINKLER RISERS REQUIRED:
0 NEW WET RISERS

NUMBER & CLASS OF STANDPIPES REQUIRED:
0 STANDPIPE SYSTEMS REQUIRED

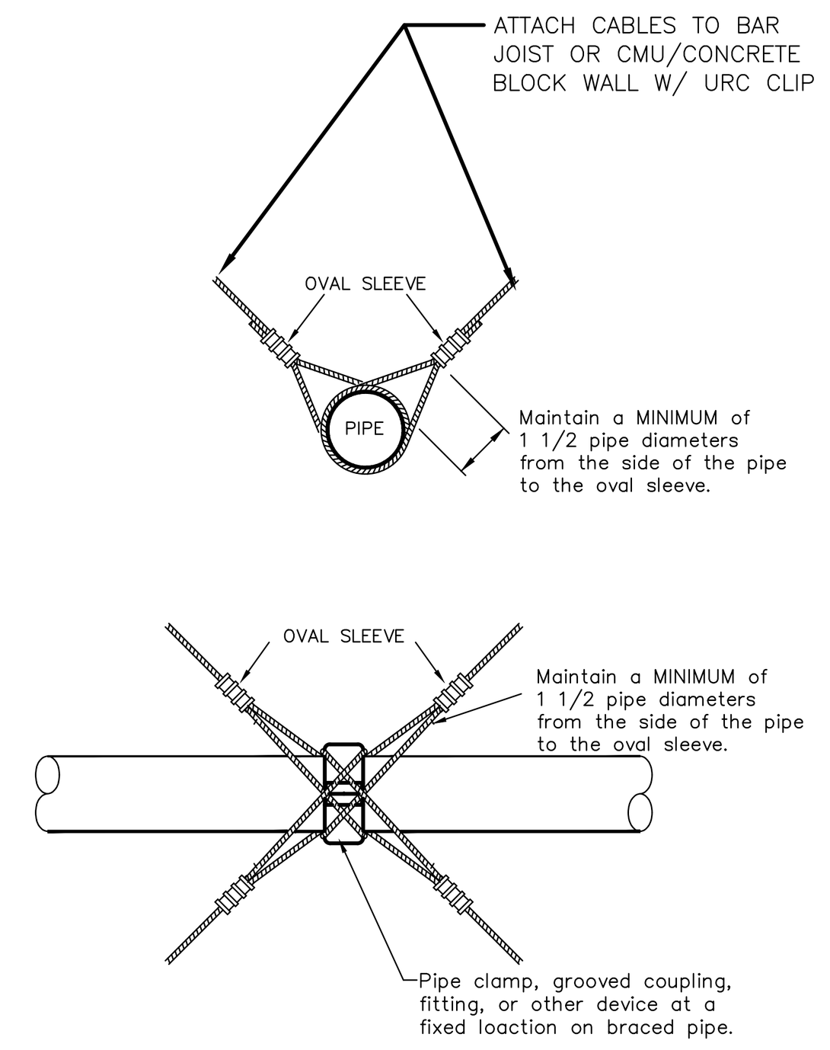
ESTIMATED WATER DEMAND REQUIRED:
FOR LIGHT HAZARD AREAS, THE SYSTEM SHALL PROVIDE AT LEAST THE FLOW REQUIRED TO PRODUCE A MINIMUM DISCHARGE DENSITY OF 0.10 GPM/SQ. FT OVER 1500 SQ. FT. THE DESIGN AREA IS TO BE CALCULATED AT THE HYDRAULICALLY MOST REMOTE AREA OF THE SYSTEM. A 100 GPM HOSE ALLOWANCE IS TO BE ADDED TO THE TOTAL DEMAND PER NFPA 13.

FOR ORDINARY HAZARD GRP 1 AREAS, THE SYSTEM SHALL PROVIDE AT LEAST THE FLOW REQUIRED TO PRODUCE A MINIMUM DISCHARGE DENSITY OF 0.15 GPM/SQ. FT OVER 1500 SQ. FT. THE DESIGN AREA IS TO BE CALCULATED AT THE HYDRAULICALLY MOST REMOTE AREA OF THE SYSTEM. A 250 GPM HOSE ALLOWANCE IS TO BE ADDED TO THE TOTAL DEMAND PER NFPA 13.

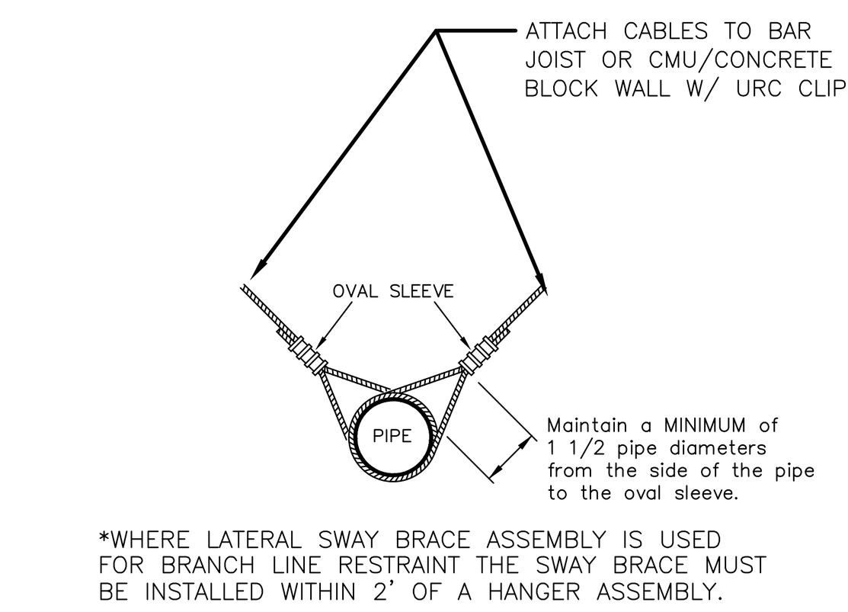
FOR ORDINARY HAZARD GRP 2 AREAS, THE SYSTEM SHALL PROVIDE AT LEAST THE FLOW REQUIRED TO PRODUCE A MINIMUM DISCHARGE DENSITY OF 0.2 GPM/SQ. FT OVER 1500 SQ. FT. THE DESIGN AREA IS TO BE CALCULATED AT THE HYDRAULICALLY MOST REMOTE AREA OF THE SYSTEM. A 250 GPM HOSE ALLOWANCE IS TO BE ADDED TO THE TOTAL DEMAND PER NFPA 13.

SPRINKLER LEGEND							
SYMBOL	NAME	METAL	TEMP	K	NPT	ESCUT	MAX SPACING
○	SSU	BRASS	200°	5.6	1/2"	N/A	225 SQ. FT
◉	CSSP	WHITE	155°	5.6	1/2"	CONCEALED	225 SQ. FT
⊛	SSP	WHITE	155°	5.6	1/2"	SEMI-REC.	225 SQ. FT

ADD-04

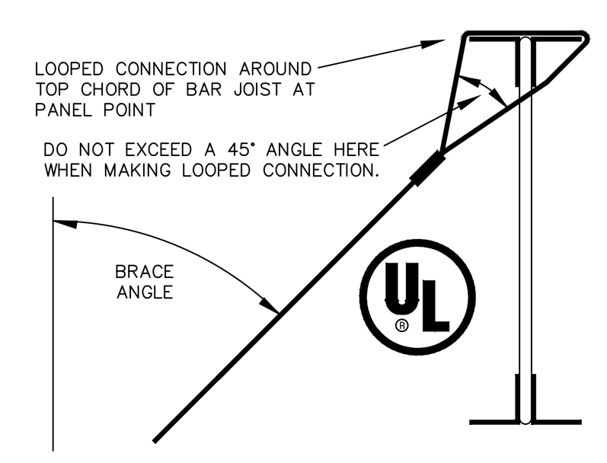


SEISMIC WIRE ROPE/CABLE BRACING
FOUR WAY SWAY BRACE
SCALE N.T.S.

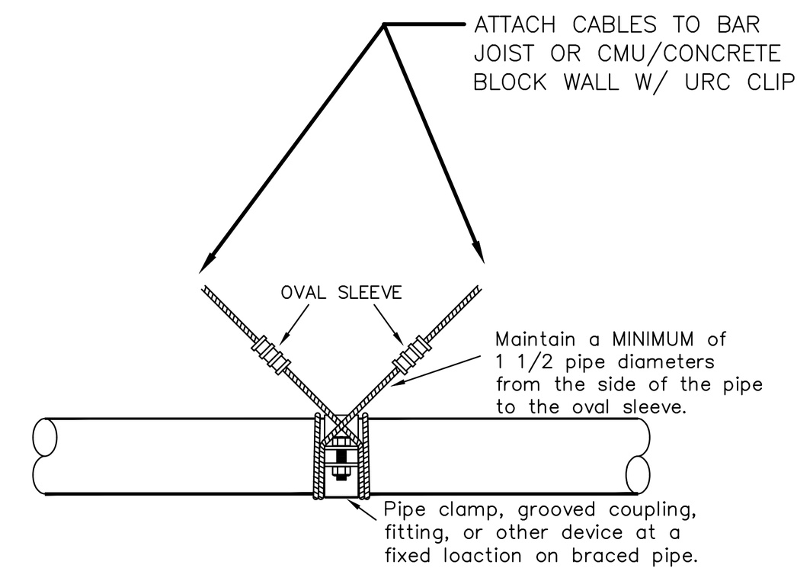


*WHERE LATERAL SWAY BRACE ASSEMBLY IS USED FOR BRANCH LINE RESTRAINT THE SWAY BRACE MUST BE INSTALLED WITHIN 2' OF A HANGER ASSEMBLY.

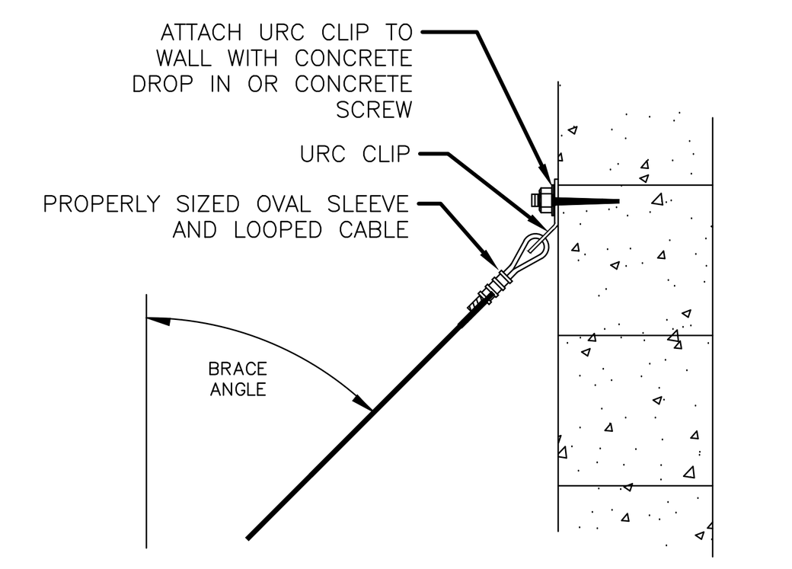
SEISMIC WIRE ROPE/CABLE BRACING
LATERAL SWAY BRACE
SCALE N.T.S.



SEISMIC WIRE ROPE/CABLE BRACING
BAR JOIST ATTACHMENT DETAIL
SCALE N.T.S.



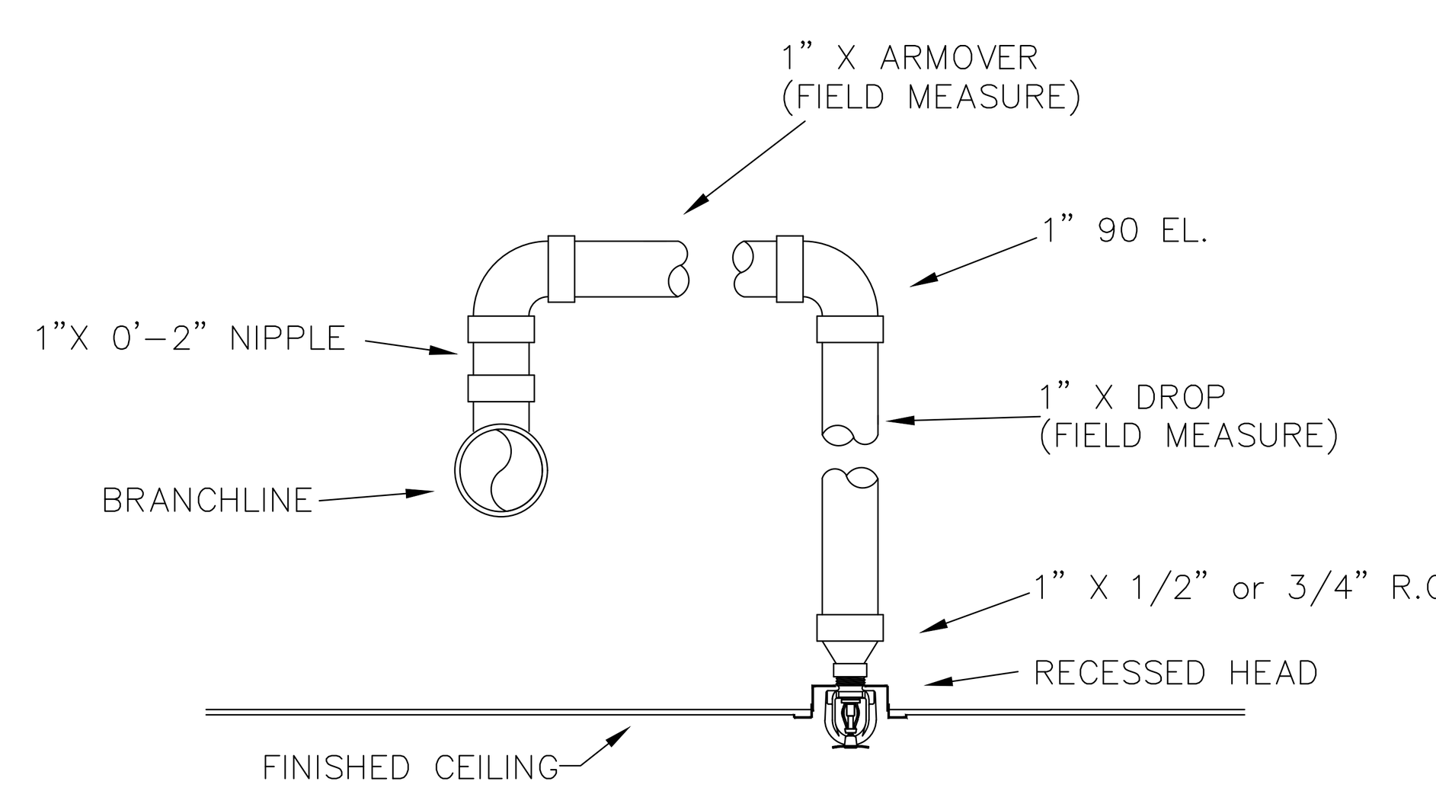
SEISMIC WIRE ROPE/CABLE BRACING
LONGITUDINAL SWAY BRACE
SCALE N.T.S.



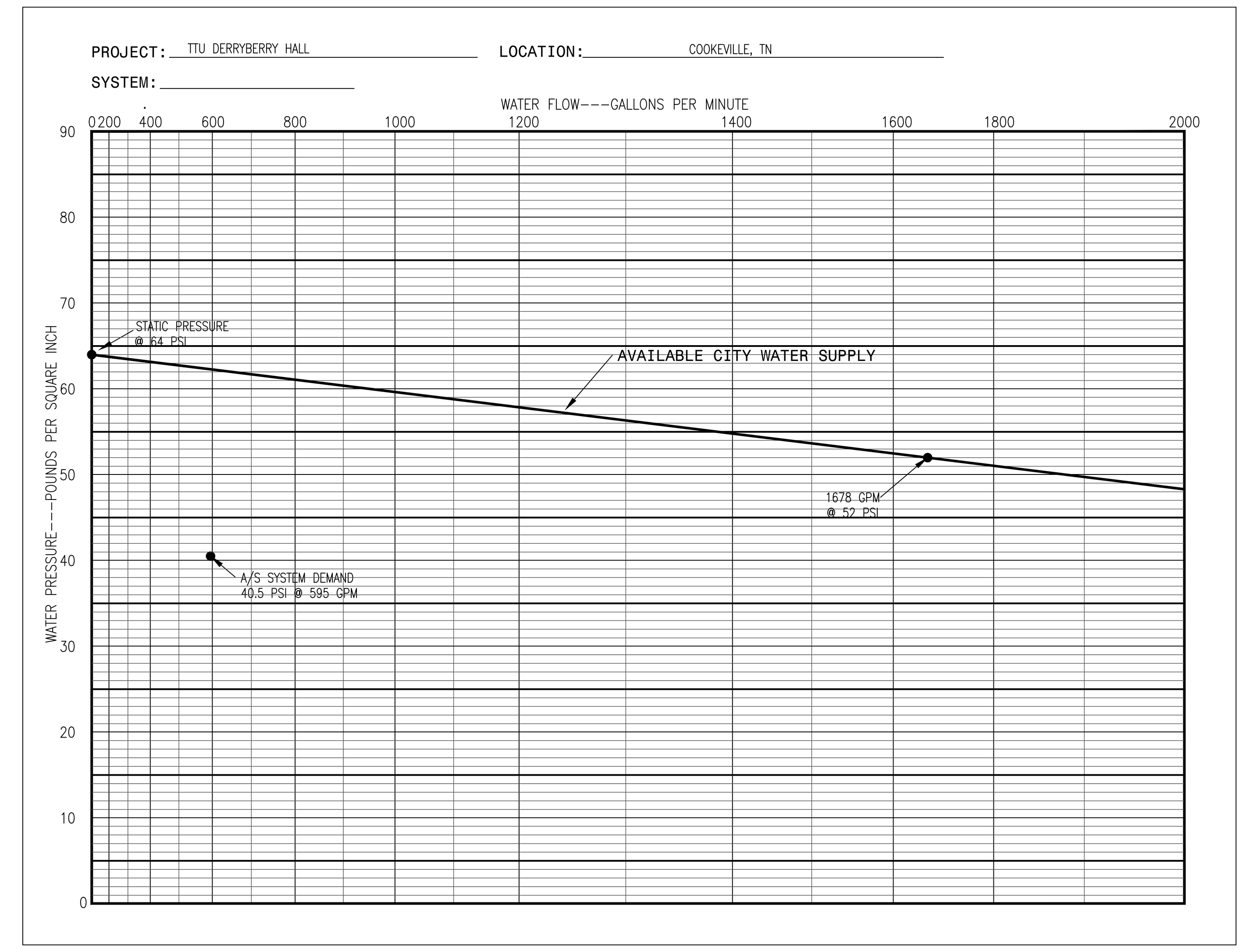
SEISMIC WIRE ROPE/CABLE BRACING
CMU/CONCRETE WALL ATTACHMENT DETAIL
SCALE N.T.S.

SEISMIC NOTES

1. WHERE PIPE PASSES THROUGH HOLES IN PLATFORMS, FOUNDATIONS, WALLS, OR FLOORS THE HOLES SHALL BE SIZED SUCH THAT THE DIAMETER OF THE HOLES IS 2" LARGER THAN THE PIPE. NON-RATED FIRE WALLS CONSTRUCTED OF GYPSUM BOARD NEED NOT BE SLEEVED OR OR HAVE THE ABOVE MENTIONED CLEARANCE. REQUIRED PIPE SLEEVES TO BE A NOMINAL 2 INCHES LARGER THAN PIPING BEING SLEEVED.
2. CLEARANCE PER NOTE #1 IS NOT REQUIRED IF FLEXIBLE COUPLINGS ARE LOCATED WITHIN 1' OF EACH SIDE OF A WALL, FLOOR, PLATFORM, OR FOUNDATION.
3. TOPS OF RISERS SHALL BE SECURED AGAINST DRIFTING IN ANY DIRECTION, UTILIZING A FOUR-WAY SWAY BRACE
4. LATERAL SWAY BRACING SHALL BE SPACED 40' MAX ON CENTER, LONGITUDINAL BRACING SHALL BE SPACED 80' MAX ON CENTER
5. ALL COUPLINGS MARKED ×▭× TO BE FLEXIBLE TYPE COUPLINGS, ALL OTHER COUPLINGS U.N.O. ARE TO BE RIGID TYPE.
6. NO SWAY BRACING REQUIRED WHEN HANGER RODS ARE 6" OR LESS
7. BRANCH LINE RESTRAINTS ARE TO BE LOCATED WITHIN 2 FT OF A HANGER ASSEMBLY. THIS HANGER ASSEMBLY TO HAVE A SURGE CLIP TO RESIST UPWARD MOVEMENT.
8. THE END SPRINKLER ON A LINE IS TO BE RESTRAINED WITH A HANGER ASSEMBLY THAT INCORPORATES A SURGE CLIP.



RETURN BEND DETAIL
SCALE: N.T.S.



FLOW TEST	
STATIC:	64 PSI
RESIDUAL:	52 PSI
FLOW(GPM):	1,678
ELEVATION:	5'
BY:	BRANDON LEE
DATE:	10/12/2023
TIME:	11:20
LOCATION:	#2934 WILLIAM L. JONES / QUADRANGLE

*IT IS THE FIRE SPRINKLER CONTRACTOR'S RESPONSIBILITY TO HAVE AN UPDATED FLOW TEST PERFORMED FOR USE IN HYDRAULIC CALCULATIONS.

ADD-04

ESTIMATED WATER DEMAND REQUIRED:
LIGHT HAZARD = .20 GPM/1500 SQ. FT
REQUIRED DURATION (LIGHT HAZARD) = 30 MINUTES
AREA CALCULATED (SEE PLANS)=(STAGE)
1,500 SQ.FT x .20 GPM x 1.15= 345 GPM
345 GPM+ 250 GPM HOSE ALLOWANCE= 595 GPM DEMAND
ELEVATION DIFFERENCE BETWEEN TOP OF SPRINKLER SYSTEM AND BASE OF RISER= APPROX. 40 FT
40 FT x .433= 17.5 PSI + 7 PSI AT SPRINKLER HEAD=
24.5 PSI ELEVATION LOSS & END HEAD PRESSURE LOSS
ELEVATION OF TEST HYDRANT IS x 5 FT ABOVE F.F.E.
5 x .433= 2 PSI GAIN DUE TO ELEVATION
22.5 PSI TOTAL LOSS (ELEVATION AND END HEAD PRESSURE LOSS)

ADD-04

FLOW LOSSES:
4 PSI/100 FT IN PIPING (INSIDE BUILDING)
250 FTx 1.15 (PIPE FITTING FACTOR)x 4 PSI/100= 11.5 PSI
.25 PSI/100 FT IN PIPING (PIPING OUTSIDE BUILDING)
(UNDERGROUND PIPING IS EXISTING)
200 FTx 1.15x .25 PSI/100= 0.5 PSI

4 PSI LOSS AT FIRE LINE D.C.V.A.

2 PSI LOSS AT FIRE METER

11.5 + 0.5 + 4 + 2 = 18 PSI FLOW LOSSES (DUE TO FRICTION)

TOTAL LOSSES:
22.5 PSI (ELEVATION LOSS) + 18 PSI (FLOW LOSS)=
40.5 PSI REQUIRED AT TEST HYDRANT AT 595 GPM
63 PSI AVAILABLE AT 595 GPM
63 PSI – 40.5 PSI = 22.5 PSI SAFETY MARGIN

FIRE PROTECTION SHEET INDEX	
SHEET NUMBER	SHEET TITLE
FP0.1	FIRE PROTECTION NOTES
FP1.2	FIRE PROTECTION SECOND FLOOR PLAN
FP1.3	FIRE PROTECTION THIRD FLOOR PLAN

THE WORK SHOWN ON THIS DRAWING IS SCHEMATIC IN NATURE. MATERIAL/LABOR REQUIRED ABOVE AND BEYOND WHAT IS SHOWN WILL BE THE RESPONSIBILITY OF THE AWARDED FIRE SPRINKLER SUBCONTRACTOR. FAILURE TO MAKE SITE VISIT PRIOR TO QUOTING THIS WORK WILL NOT BE GROUNDS FOR A CHANGE ORDER, IF ADDITIONAL MATERIAL/LABOR IS REQUIRED.

NFPA 13 – 2010 EDITION

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Phone: 615.377.0093
Enfinity Project # 21206

ISSUED: 03.08.24
SBC PROJECT #: 364/011-05-2021
GMCA PROJECT #: 202113 TDH

REVISED:

#	DATE	DESCRIPTION
ADD-004	04.25.24	ADDENDUM #4

FIRE PROTECTION NOTES

FP0.1