ADDENDUM NUMBER 05
January 9, 2025

PROJECT: **FORT PAYNE HIGH SCHOOL COMPETITION GYM AND CLASSROOM ADDITION**
ARCHITECT: GOODWYN MILLS CAWOOD, LLC
PROGRAM MANAGER: SCOUT PROGRAM MANAGEMENT
OWNER: FORT PAYNE CITY SCHOOLS

GENERAL:

A. The following revisions and/or additions to the Drawings and Project Manual are hereby made a part of same, and shall be incorporated in the Work of the Contract the same as if originally included in the Bid and Construction Documents.

B. Bidders shall acknowledge receipt of this Addendum in writing, as provided on the Proposal Form.

C. When a revision and/or addition is called for to the Drawings or Project Manual, they shall be fully coordinated with and carried through all applicable Drawings and portions of the Project Manual, including in part, all related Civil, Landscaping, Architectural, Structural, Plumbing, Mechanical, Electrical, and other Documents.

CLARIFICATIONS & PROJECT INFORMATION:

A. The bid date is CHANGED to **Tuesday to January 28, 2025** at the Board of Education Bldg. Conference Room 45th Street, Fort Payne AL. Bids shall be received until 2:00 p.m. CST at which point they will be publicly opened.

B. All proposed bidders shall hold an Alabama Contractors License

DRAWINGS (replace the following sheets)

- Sheet C-906
- Sheet G1.01
- Sheet G1.20
- Sheet A1.01
- Sheet A1.02
- Sheet A3.01
- Sheet A3.02
- Sheet A5.11
- Sheet A5.12
- Sheet A5.13
- Sheet A5.14

SPECIFICATIONS

- 01 1100A Attachment A to Proposal Form
- **00 2100 Allowances: ADD-$65,000 Allowance for Irrigation**

RFI LOG

See attached RFI log. Unanswered items will be addressed in a future addendum.

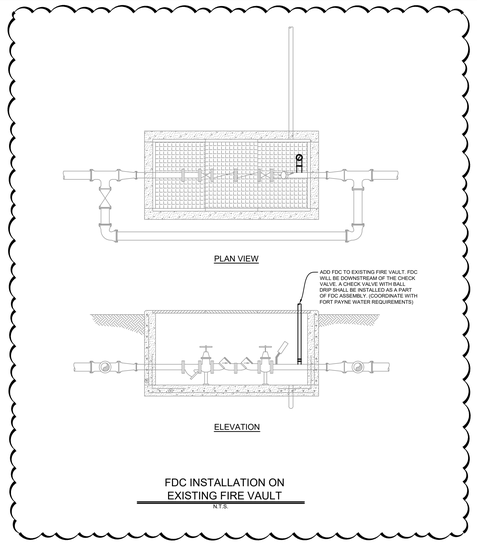
ATTACHEMENTS

A. Pre-Bid Meeting Sign-In Sheet
B. Fire Resistance Ratings – ANSI/UL 263 (Design No. D902)
C. Fire Resistance Ratings – ANSI/UL 263 (Design No. J957)
D. DCM Form K-9 (Owner & Architect Agreement

APPROVED SUBSTITUTIONS

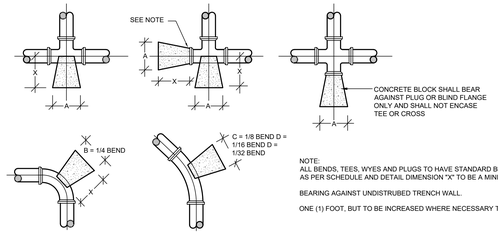
A. Note: *All other submitted Substitution Requests were not approved.*

END OF ADDENDUM NO. 5



FDC INSTALLATION ON EXISTING FIRE VAULT

N.T.S.



NOTE:
ALL BENDS, TEES, WYES AND PLUGS TO HAVE STANDARD BLOCKING AS PER SCHEDULE AND DETAIL DIMENSION "X" TO BE A MINIMUM ON

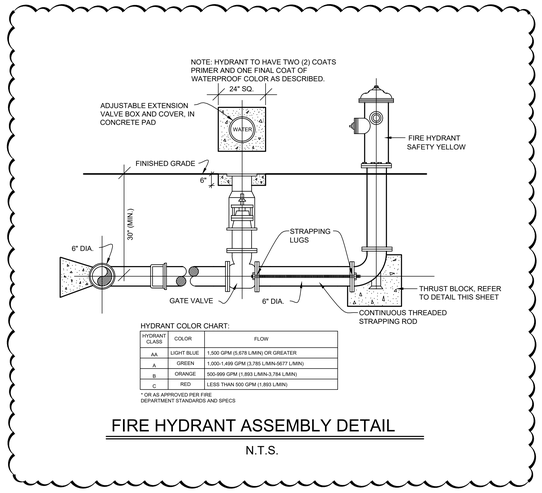
BEARING AGAINST UNDISTRUBED TRENCH WALL.

ONE (1) FOOT, BUT TO BE INCREASED WHERE NECESSARY TO PROVIDE

PIPE SIZE	A PLUGS & TEES	B 90 BENDS	C 45 BENDS	D 1/8 & 1/16 BENDS	DEPTH OF BLOCK
6" & 8"	2' - 5"	2' - 10"	2' - 3"	2' - 5"	1' - 6"

THRUST BLOCK SCHEDULE

N.T.S.



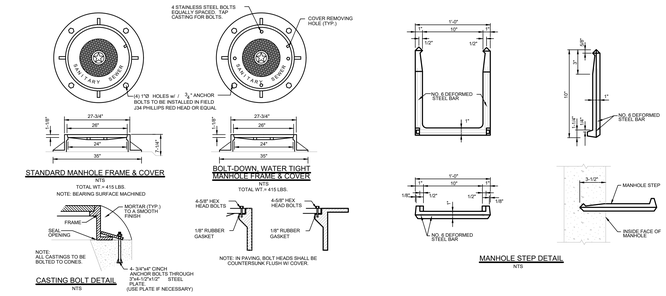
HYDRANT COLOR CHART:

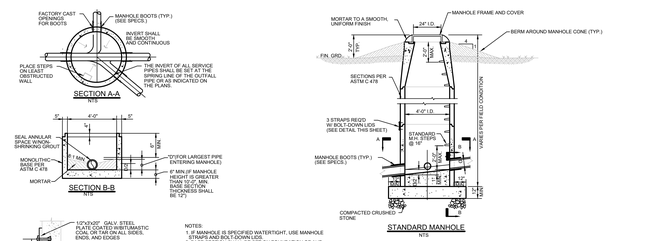
HYDRANT CLASS	COLOR	FLOW
AA	LIGHT BLUE	1,500 GPM (5,678 L/MIN) OR GREATER
A	GREEN	1,000-1,499 GPM (3,785 L/MIN-5677 L/MIN)
B	ORANGE	500-999 GPM (1,893 L/MIN-3,784 L/MIN)
C	RED	LESS THAN 500 GPM (1,893 L/MIN)

* OR AS APPROVED PER FIRE DEPARTMENT STANDARDS AND SPECS

FIRE HYDRANT ASSEMBLY DETAIL

N.T.S.

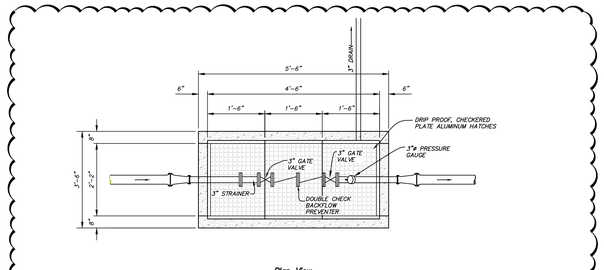


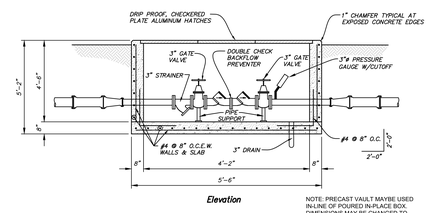


NOTES:
1. IF MANHOLE IS SPECIFIED WATERTIGHT, USE MANHOLE STRAPS AND BOLT-DOWN LIDS.
2. MANHOLE SHALL BE SET ON FOUNDATION OF A#57 OR A#3 #78 COMPACTED STONE AGGREGATE A MIN. OF 12" THICKNESS AND COVERING THE ENTIRE BOTTOM OF THE EXCAVATION FOR THE MANHOLE.

STANDARD MANHOLE DETAIL

N.T.S.

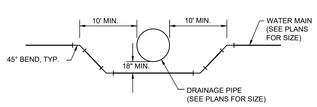




NOTE: PRECAST VAULT MAYBE USED IN-LINE OF POURED IN-PLACE BOX. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE FITTINGS SHOWN.

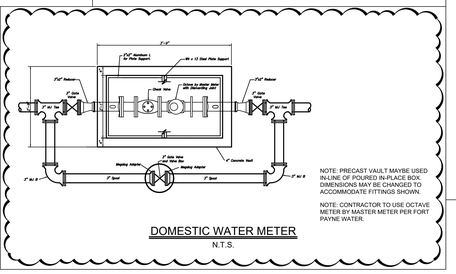
BACKFLOW PREVENTER

N.T.S.



CONFLICT DETAIL

N.T.S.

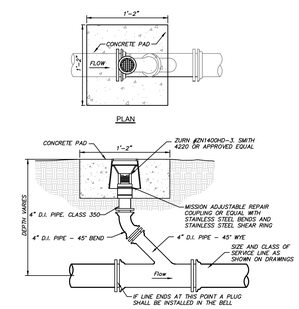


NOTE: PRECAST VAULT MAYBE USED IN-LINE OF POURED IN-PLACE BOX. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE FITTINGS SHOWN.

NOTE: CONTRACTOR TO USE OCTAVE METER BY MASTER METER PER FORT PAYNE WATER.

DOMESTIC WATER METER

N.T.S.



TYPICAL GRAVITY SEWER CLEANOUT

N.T.S.

GMC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24
ADDENDUM #2	12.12.24
ADDENDUM #4	01.03.25

DRAWN BY: BBTEP
CHECKED BY: CAS

FORT PAYNE COMPETITION GYM
201 45th STREET NE
FORT PAYNE, AL 35967

CHUN240037

01-05-2025

WATER AND SEWER DETAILS

C-906
sheet of

DRAWING FILE: F:\Projects\GMC\Ft Payne City Schools\CHUN240037 - Fort Payne High School Gym\CIVIL\PLANS\C SHEETS\03 CIVIL C-901 Details.dwg
PLOTTED: Jan 03, 2025 - 3:14:27pm

DRAWING INDEX

DRAWING INDEX

DWG. NO.	DRAWING NAME
0.0 GENERAL	
T1	TITLE SHEET
G1.01	DRAWING INDEX & GENERAL INFORMATION
G1.02	GENERAL NOTES
G1.11	ACCESSIBILITY DATA
G1.20	TYPICAL CONSTRUCTION TYPES
G1.21	PARTITION TYPES
G1.31	PENETRATION FIRESTOPPING SYSTEMS
G2.00	LIFE SAFETY - CODE ANALYSIS
G2.01	LIFE SAFETY PLAN - LOWER LEVEL
G2.01A	LIFE SAFETY PLAN - STORM SHELTER
G2.02	LIFE SAFETY PLAN - MAIN LEVEL
G2.03	LIFE SAFETY PLAN - UPPER LEVEL
1.0 CIVIL	
C-001	PROJECT NOTES
C-002	EXISTING CONDITIONS & DEMOLITION PLAN
C-101	OVERALL SITE PLAN
C-201	OVERALL GRADING PLAN
C-301	OVERALL UTILITY PLAN
C-302	WATER & SEWER PLAN
C-303	SANITRY SEWER PLAN & PROFILE
C-304	STORM DRAINAGE PLAN
C-305	STORM DRAINAGE PROFILES
C-601	EROSION CONTROL PLAN
C-901	EROSION CONTROL PLAN DETAILS
C-903	SITE DETAILS
C-904	STORM DRAINAGE DETAILS
C-905	ADS DETAILS
C-906	WATER AND SEWER DETAILS
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L1.00	PLANTING PLAN
L2.00	PLANTING SCHEDULE, DETAILS AND NOTES
2.5 STRUCTURAL	
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S1.01	GENERAL NOTES
S1.02	TYPICAL DETAILS
S1.03	TYPICAL DETAILS
S2.00	FOUNDATION PLAN
S2.01	GROUND LEVEL FLOOR FRAMING PLAN
S2.02	FOUNDERS LEVEL FLOOR FRAMING PLAN
S2.03	ROOF FRAMING PLAN
S3.01	SECTIONS
S3.02	SECTIONS
S3.03	SECTIONS
S3.04	SECTIONS
S3.05	SECTIONS
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A1.02	FLOOR PLAN - MAIN LEVEL
A1.03	FLOOR PLAN - UPPER LEVEL
A1.04	ENLARGED PLANS
A1.05	SEATING PLAN & DETAILS
A2.01	REFLECTED CEILING PLAN - LOWER LEVEL
A2.02	REFLECTED CEILING PLAN - MAIN LEVEL
A2.03	REFLECTED CEILING PLAN - UPPER LEVEL
A3.01	ROOF PLAN
A3.02	ROOF DETAILS
A4.01	EXTERIOR ELEVATIONS
A4.02	EXTERIOR ELEVATIONS
A5.01	BUILDING SECTIONS
A5.11	WALL SECTIONS
A5.12	WALL SECTIONS
A5.13	WALL SECTIONS
A5.14	WALL SECTIONS
A5.31	VERTICAL CIRCULATION
A5.32	VERTICAL CIRCULATION
A5.33	VERTICAL CIRCULATION
A5.34	VERTICAL CIRCULATION
A5.35	VERTICAL CIRCULATION
A6.01	DOOR SCHEDULE, LEGEND, & NOTES
A7.01	INTERIOR ELEVATIONS - MAIN LEVEL RESTROOMS
A7.02	INTERIOR ELEVATIONS - MAIN LEVEL LOBBY
A7.03	INTERIOR ELEVATIONS - MAIN LEVEL CLASSROOMS & N CONCESSIONS
A7.04	INTERIOR ELEVATIONS - MAIN LEVEL CLASSROOMS 2
A7.05	INTERIOR ELEVATIONS - MAIN LEVEL GYM 1
A7.06	INTERIOR ELEVATIONS - MAIN LEVEL GYM 2
A7.07	INTERIOR ELEVATIONS - LOWER LEVEL WEST LOCKER ROOMS
A7.08	INTERIOR ELEVATIONS - LOWER LEVEL EAST LOCKER ROOMS
A7.09	INTERIOR ELEVATIONS - LOWER LEVEL SOUTH CORRIDOR
A7.10	INTERIOR ELEVATIONS - UPPER LEVEL FOUNDERS ROOM
A7.11	INTERIOR DETAILS
A8.00	FINISH LEGEND & SCHEDULE
A8.01	FINISH PLAN - LOWER LEVEL
A8.02	FINISH PLAN - MAIN LEVEL
A8.03	FINISH PLAN - UPPER LEVEL
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M1.03	MECHANICAL PLANS UPPER LEVEL & ROOF
M5.01	MECHANICAL DETAILS
M6.01	MECHANICAL SCHEDULES
M7.01	MECHANICAL CONTROL DIAGRAMS
5. ELECTRICAL	
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E010	ELECTRICAL SITE PLAN DEMO
E011	ELECTRICAL SITE PLAN
E012	ELECTRICAL SITE PHOTOMETRIC PLAN
E101	LOWER LEVEL - POWER PLAN
E102	MAIN LEVEL - POWER PLAN
E103	UPPER LEVEL - POWER PLAN
E200	LIGHTING - GENERAL
E201	LOWER LEVEL - LIGHTING PLAN
E202	MAIN LEVEL - LIGHTING PLAN
E203	UPPER LEVEL - LIGHTING PLAN
E301	LOWER LEVEL - SYSTEMS PLAN

DRAWING INDEX

DWG. NO.	DRAWING NAME
E302	MAIN LEVEL - SYSTEMS PLAN
E303	UPPER LEVEL - SYSTEMS PLAN
E400	ENLARGED ELECTRICAL PLANS
E600	ELECTRICAL DIAGRAMS
E700	PANEL SCHEDULES
E701	PANEL SCHEDULES
6. PLUMBING	
P0.01	PLUMBING ABBREVIATIONS & LEGENDS
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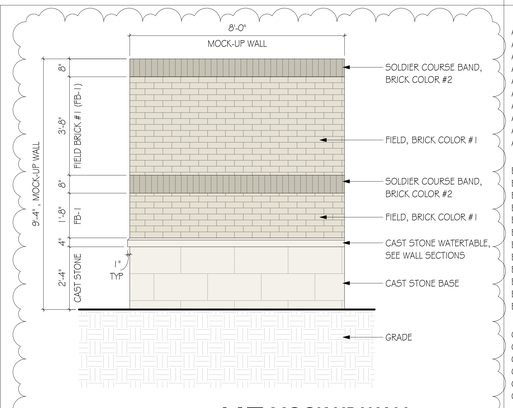
P1.02	PLUMBING GRAVITY PLAN - MAIN LEVEL
P1.03	PLUMBING GRAVITY PLAN - UPPER LEVEL
P1.04	PLUMBING PRESSURE PLAN - LOWER LEVEL
P1.05	PLUMBING PRESSURE PLAN - MAIN LEVEL
P1.06	PLUMBING PRESSURE PLAN - UPPER LEVEL
P4.01	PLUMBING ENLARGED PLANS
P6.01	PLUMBING DETAILS & SCHEDULES
P9.01	PLUMBING ISOMETRICS

MOCK-UP WALL



K7 **MOCK UP WALL**
SCALE: 1/2" = 1'-0"

4

ABBREVIATIONS

ACC	ACCESSIBLE
ACI	AMERICAN CONCRETE INSTITUTE
ACT	ACOUSTICAL CEILING TILE
ADD	ADDENDUM
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT (URAL)
ADJ	ADJACENT
B/B	BACK-TO-BACK
BC	BASE OF CURB
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCHMARK
BOT	BOTTOM
BRG	BEARING
BSMT	BASEMENT
BUR	BUILT-UP ROOF
BOW	BOTTOM OF WALL
B/W	BETWEEN
CAB	CABINET
CB	CATCH BASIN
C/C	CENTER TO CENTER
CD	CORE DECK
CF	CUBIC FOOT
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CI	CAST IRON
CIP	CAST IRON PIPE
CJ	CONSTRUCTION OR CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR (ANCE)
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS OR CONTINUE
COORD	COORDINATE
CPT	CARPET (ED)
CSMU	CALCIUM SILICATE MASONRY UNIT
CT	CERAMIC TILE
CW	CURTAIN WALL
D	DRYER
DBL	DOUBLE
DEM	DEMOLISH OR DEMOLITION
DET	DETAIL
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DL	DEAD LOAD
DS	DOWNSPOUT
DWG	DRAWING
DF	DRINKING FOUNTAIN
EA	EACH
EF	EACH FACE
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEV	ELEVATION / ELEVATOR
ELEC	ELECTRIC (ALL)
ENGR	ENGINEER
EOP	EDGE OF PAVEMENT
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPOSED
EXPN	EXPANSION
EXT	EXTERIOR
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER & CABINET
FFE	FINISH FLOOR ELEVATION
FFW	FINISH FACE OF WALL
FHC	FIRE HOSE & CABINET
F/F	FACE TO FACE
FL	FLOOR
FLG	FLANGE
FND	FOUNDATION
FO	FACE OF
FOB	FACE OF BRICK
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FR	FRAME (ED), (ING)
FRT	FIRE RETARDANT TREATED
FT	FOOT/FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GHM	GALVANIZED HOLLOW METAL
GI	GALVANIZED IRON
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HC	HANDICAP
HM	HOLLOW METAL
HOD	HIGHEST OPERABLE DEVICE
HORIZ	HORIZONTAL
HP	HIGH POINT/HORSE POWER
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
HVAC	HEATING / VENTILATION / AIR CONDITIONING
HW	HARDWARE
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IJ	ISOLATION JOINT
IN	INCH / INCHES
INSUL	INSULATION
JAN	JANITOR'S CLOSET
JG	JOIST GIRDER
JT	JOINT
K	THOUSAND
KIP	1000 #
KJ	KEY JOINT
KSI	1000 # PER SQ IN
LAM	LAMINATE (D)
LF	LINEAR FOOT
L	LENGTH, ANGLE
LAB	LABORATORY
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT GA	LIGHT GAUGE
LT	LIGHT
MATL	MATERIAL
MAX	MAXIMUM
MC	MISCELLANEOUS CHANNEL
MECH	MECHANICAL
MEZZ	MEZZANINE
MANUF	MANUFACTURE (R)
MH	MANHOLE
MIN	MINIMUM
MO	MASONRY OPENING
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/H	OVERHEAD
OC	ON CENTER (S)
OCC	OCCUPANT (S)
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OH	OPPOSITE HAND
OPG	OPENING
OPP	OPPOSITE
PJ	PRECAST JOINT
PL	PROPERTY LINE, PLATE
PLAM	PLASTIC LAMINATE
PNT	PAINT (ED)
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREMANUF	PREMANUFACTURED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT / PRESSURE TREATED / POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWD	PLYWOOD
QT	QUARRY TILE
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REBAR	REINFORCEMENT BAR
REF	REFRIGERATOR / REFERENCE
REINF	REINFORCE (D), (ING)
REQ'D	REQUIRED
RET	RETAINING
REV	REVISION (S), REVISED
RH	RIGHT HAND
RJ	RECESSED JOINT
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTU	ROOF TOP UNIT
SC	SEALED CONCRETE
SCHED	SCHEDULED
SD	STORM DRAIN
SECT	SECTION
SF	STOREFRONT
SIM	SIMILAR
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS	SOLID SURFACE
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SY	SQUARE YARD
TELE	TELEPHONE
TERM	TERMINATION
T&G	TONGUE AND GROOVE
TH	THICK (NESS)
THK	THICK (NESS)
TO	TOP OF
TOC	TOP OF CURB
TOGB	TOP OF GRAB BAR
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOS	TOP OF SLAB / TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
TZ	TERRAZZO
UNO	UNLESS NOTED OTHERWISE
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VWC	VINYL WALL COVERING
W	WASHER / WIDTH / WIDE FLANGE
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WIN	WINDOW
WP	WORK POINT / WATERPROOFING
WT	WEIGHT
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT

ANNOTATION SYMBOLS & TAGS

ROOM NAME 101 — **ROOM REFERENCE TAG**

COLUMN LINES: CONSECUTIVE NUMBERS ARE USED FOR COLUMN LINES RUNNING NORTH & SOUTH

CONSECUTIVE LETTERS ARE USED FOR COLUMN LINES RUNNING EAST & WEST

FACE OF MASONRY OR FACE OF GIRDER

G77.52 — **ELEVATION TAG:** G77.52 - ELEVATION (FT)

A1.01 — **EXTERIOR ELEVATION TAG:** ELEVATION 1 ON SHEET A101

3 A1.01 — **INTERIOR ELEVATION TAG:** INTERIOR ELEVATION 3 ON SHEET A101

FF&E: BY OTHERS

REVISION CLOUD AND TAG: USED TO INDICATE SCOPE OF CURRENT REVISION

OG — **WALL TAG:** INTERIOR WALL TYPE OG (SEE PARTITION LEGEND)

101 — **DOOR TAG:** DOOR NUMBER 101 (SEE FLOOR PLANS AND DOOR SCHEDULE)

C-1 — **CURTAINWALL TAG:** CURTAINWALL TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

S-1 — **STOREFRONT TAG:** STOREFRONT TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

W-1 — **WINDOW TAG:** WINDOW TYPE 1 (SEE EXTERIOR ELEVATIONS AND GLAZING SCHEDULE)

L-1 — **LOUVER TAG:** LOUVER TYPE L1 (SEE LOUVER SCHEDULE)

TA01 — **SPECIALTY EQUIPMENT TAG:** SEE SPECIALTY EQUIPMENT SCHEDULE

G1 — **PLAN KEYNOTE TAG:** KEYNOTE NUMBER SEE PLAN KEYNOTE SCHEDULE

1 A1.01 — **BUILDING SECTION TAG:** SECTION 1 ON SHEET A101

1 A1.01 — **WALL SECTION TAG:** SECTION 1 ON SHEET A101

1 A1.01 — **ENLARGED DETAIL TAG:** DETAIL 1 ON SHEET A101

CD5# # HEIGHT # DEPTH # WIDTH # — **CASEWORK TAG**

PRIMARY / ACCENT		
WALL FINISH	PNT-1	PNT-5
BASE FINISH	RB-1	
FLOOR FINISH	LVT-1	
CASEWORK / COUNTERTOP FINISH	PL-3	SS-1

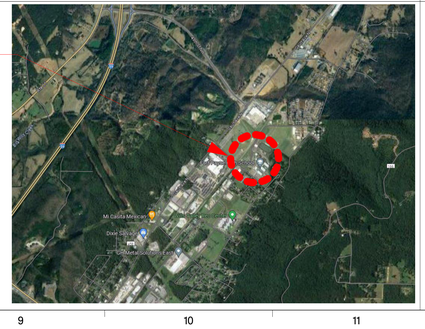
INTERIOR FINISH TAG

PLAN NORTH — **NORTH ARROW:** ARCHITECTURAL PLAN ORIENTATION

TRUE NORTH — **NORTH ARROW:** CIVIL ORIENTATION

VICINITY MAP

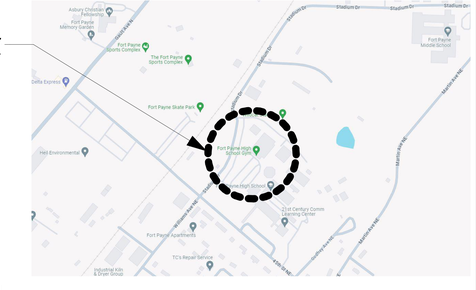
SITE



TRUE NORTH

LOCATION MAP

SITE



TRUE NORTH

GMC

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ISSUE	DATE
DCM FINAL SUBMITTAL	11.14.24
1 ADDENDUM #1	12.6.24
3 ADDENDUM #4	1.3.25
4 ADDENDUM #5	1.9.2025

DRAWN BY: DC
CHECKED BY: JP

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

1/9/2025

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

DRAWING INDEX & GENERAL INFORMATION

G1.01

TEMPLATE VERSION: 20221

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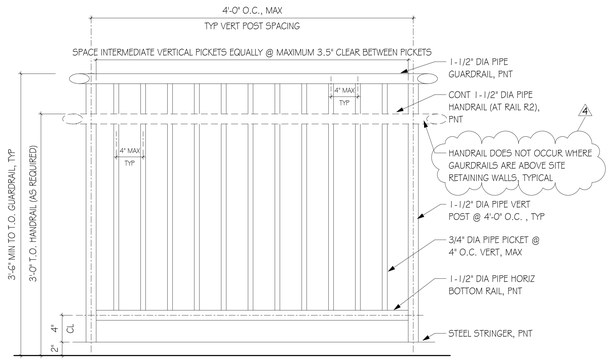
RAILING GENERAL NOTES

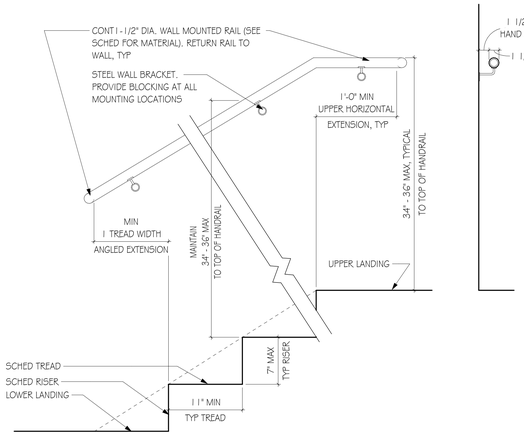
R.01. **CODE COMPLIANCE:** SEE GENERAL NOTES DIVISION 1 GENERAL REQUIREMENTS ITEM 1.09 FOR CODE COMPLIANCE.
R.02. **MULTI-TRADE COORDINATION:** SEE GENERAL NOTES DIVISION 1 GENERAL REQUIREMENTS ITEM 1.02 FOR MULTI-TRADE COORDINATION.
R.03. **HANDRAIL DIMENSIONS:** DIMENSIONS FOR HAND RAILINGS AS INDICATED IN CONTRACT DOCUMENTS. WIDTH BETWEEN HANDRAILS AT STAIRS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 44 INCHES CLEAR. WIDTH BETWEEN HANDRAILS AT RAMPS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 36 INCHES. HEIGHT OF HANDRAILS ABOVE STAIR TREAD NOSING OR FINISH SURFACES OF RAMPS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL BE UNIFORM AND NOT LESS THAN 24 INCHES AND NOT MORE THAN 38 INCHES. DIAMETER OF HANDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT HAVE AN OUTSIDE DIAMETER OF LESS THAN 1-1/4 INCHES AND NOT GREATER THAN 2 INCHES. NON CIRCULAR HANDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL HAVE A PERIMETER DIMENSION OF AT LEAST 4 INCHES AND NOT GREATER THAN 6-1/4 INCHES WITH A MAXIMUM CROSS-SECTION DIMENSION OF 2-1/4 INCHES. EDGES SHALL HAVE A MINIMUM RADIUS OF 0.01 INCHES. HANDRAIL EXTENSIONS AS INDICATED IN CONTRACT DOCUMENTS, BUT WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN FLIGHTS, THE HANDRAILS SHALL EXTEND HORIZONTALLY AT LEAST 12 INCHES BEYOND THE TOP RISER AND CONTINUE TO SLOPE FOR THE DEPTH OF ONE TREAD BEYOND THE BOTTOM RISER. AT RAMPS WHERE HANDRAILS ARE NOT CONTINUOUS BETWEEN RUNS, THE HANDRAILS SHALL EXTEND HORIZONTALLY ABOVE THE LANDING 12 INCHES MINIMUM BEYOND THE TOP AND BOTTOM OF RAMP RUNS. THE EXTENSIONS OF HANDRAILS SHALL BE IN THE SAME DIRECTION OF THE STAIR FLIGHT AS STAIRWAYS AND RAMP RUNS AT RAMPS. CLEAR SPACE BETWEEN HANDRAIL AND WALL OR OTHER SURFACE AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL BE A MINIMUM OF 1-1/2 INCHES.
R.04. **GUARDRAIL DIMENSIONS:** DIMENSIONS FOR GUARDRAILS AS INDICATED IN CONTRACT DOCUMENTS. HEIGHT OF GUARDRAILS ABOVE ADJACENT WALKING SURFACES, ADJACENT FIXED SEATING, OR THE LINE CONNECTING THE LEADING EDGE OF TREADS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT BE LESS THAN 42 INCHES. OPENINGS IN GUARDRAILS AS INDICATED IN CONTRACT DOCUMENTS BUT SHALL NOT ALLOW THE PASSAGE OF A SPHERE 4 INCHES IN DIAMETER FROM THE WALKING SURFACE TO THE REQUIRED GUARD HEIGHT (FOR ROOF ACCESS SHALL PREVENT THE PASSAGE OF A SPHERE 21 INCHES IN DIAMETER). FROM A HEIGHT OF 36 INCHES TO 42 INCHES GUARDS SHALL NOT HAVE OPENINGS WHICH ALLOW PASSAGE OF A SPHERE 4-3/8 INCHES IN DIAMETER. THE TRIANGULAR OPENINGS AT THE OPEN SIDES OF A STAIR FORMED BY THE RISER, TREAD, AND BOTTOM RAIL SHALL NOT ALLOW PASSAGE OF A SPHERE 6 INCHES IN DIAMETER.

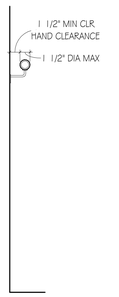
RAILING ABBREVIATIONS

WM	-	WALL MOUNTED
FMW	-	FLOOR MOUNTED/WELDED TO EMBED
FMC	-	FLOOR (TREAD/LANDING) MOUNTED/CORED
PF	-	PREFINISHED
PNT	-	PAINTED FINISH
SST	-	STAINLESS STEEL
STL	-	STEEL
G	-	GLASS RAILING INFILL
HR-1	-	HANDRAIL
HR-2	-	DOUBLE SIDED HANDRAIL
GR	-	GUARDRAIL
SMW	-	STRINGER MOUNTED/WELDED
ALUM	-	ALUMINUM
CBL	-	CABLE RAILING INFILL
WD	-	WOOD
STN	-	STAINED FINISH
SL	-	SEALED FINISH
WI	-	WROUGHT IRON
SSM	-	SIDE STRINGER MOUNTED

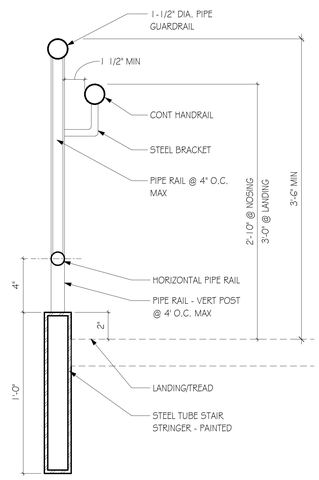


J2 TYPICAL GUARDRAIL ELEVATION
SCALE: 11/2" = 1'-0"

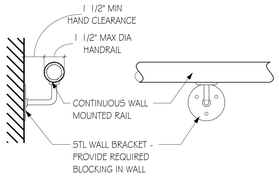




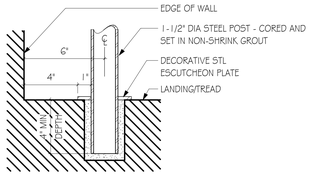
E2 TYPICAL WALL MOUNTED HANDRAIL - SLOPED EXTENSION
SCALE: 11/2" = 1'-0"



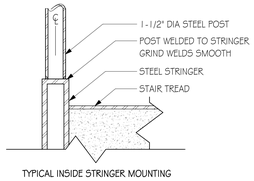
F5 TYPICAL RAIL MOUNT - STRINGER
SCALE: 3" = 1'-0"



TYPICAL WALL MOUNTING

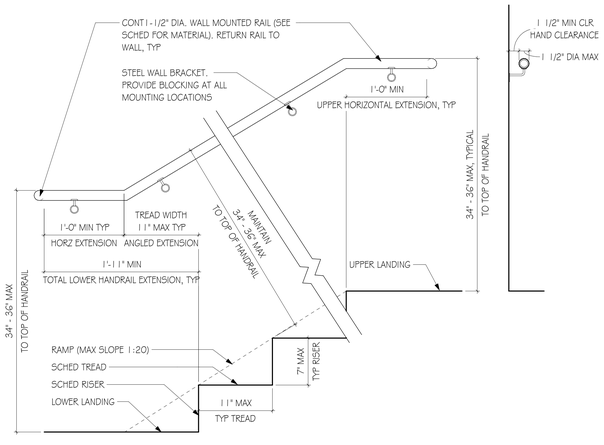


TYPICAL CORED LANDING/TREAD MOUNTING

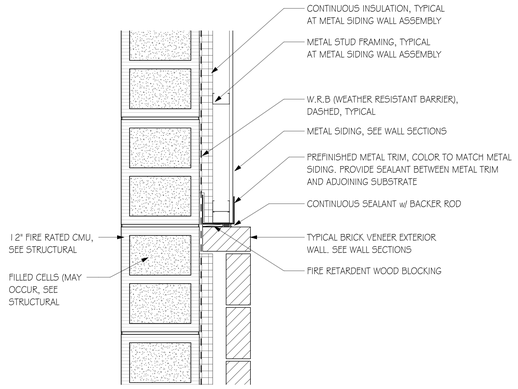


TYPICAL INSIDE STRINGER MOUNTING

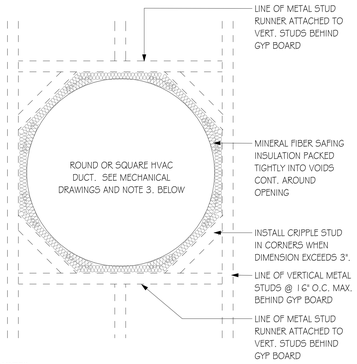
A5 STRINGER, RAIL, CORE
SCALE: 3" = 1'-0"



A2 TYPICAL WALL MOUNTED HANDRAIL - HORIZONTAL EXTENSION
SCALE: 11/2" = 1'-0"

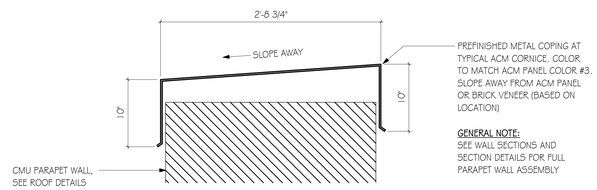


K8 BRICK VENEER TO METAL SIDING
SCALE: 11/2" = 1'-0"

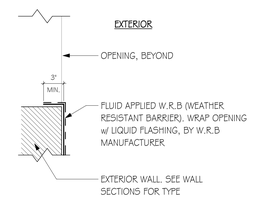


NOTES:
1. AT FIRE-RATED AND/OR SMOKE-RATED PARTITIONS, SEAL PENETRTION PER TESTED "THROUGH PENETRATION FIRESTOP SYSTEM". COMPLY WITH THE REQUIREMENTS OF IBC SECTION 7 | 2.3.3 AND WITH SPECIFICATION SECTION 078413 - PENETRATION FIRESTOPPING.
2. AT NON-RATED PARTITIONS: CUT GYPSUM BOARD TIGHT TO DUCT (1/4" MAX. GAP AROUND PENETRATION) AND SEAL WITH FLEXIBLE SEALANT AS REQUIRED
3. IF DUCT IS TO BE INSULATED, DO NOT RUN DUCT INSULATION THROUGH THE WALL. FLARE DUCT INSULATION ONTO FACE OF WALL AROUND DUCT ON BOTH SIDES OF WALL AND SEAL DUCT INSULATION TO FACE OF WALL WITH INSULATION MASTIC

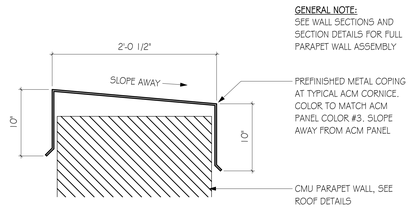
K12 DETAIL - DUCT PENETRATIONS
SCALE: 11/2" = 1'-0"



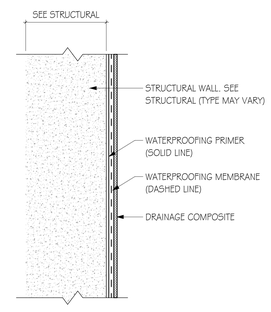
G8 TYPICAL METAL COPING
SCALE: 11/2" = 1'-0"



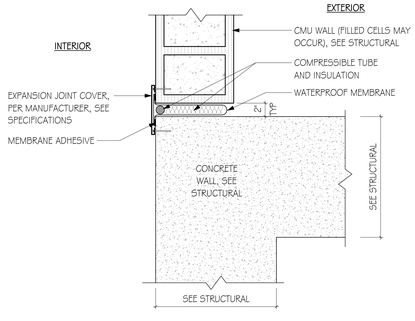
G12 TYPICAL W.R.B AT OPENING
SCALE: 11/2" = 1'-0"



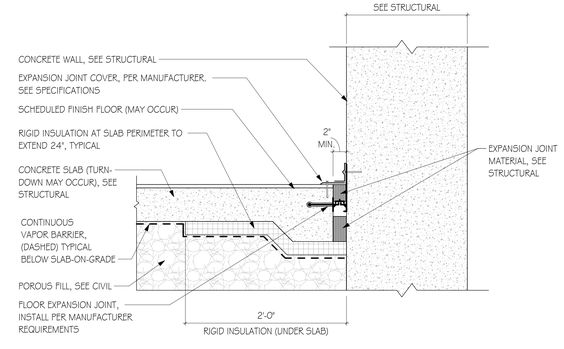
D8 METAL COPING AT MAIN ENTRY
SCALE: 11/2" = 1'-0"



D12 TYPICAL VERTICAL WATERPROOFING
SCALE: 11/2" = 1'-0"



A8 EXPANSION JOINT - CMU TO CONCRETE WALL
SCALE: 11/2" = 1'-0"



A12 EXPANSION JOINT - FLOOR TO WALL
SCALE: 11/2" = 1'-0"

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4 ADDENDUM #5	1.9.2025

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CHECKED BY: Checker

STATE of ALABAMA
Jay W Parkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT
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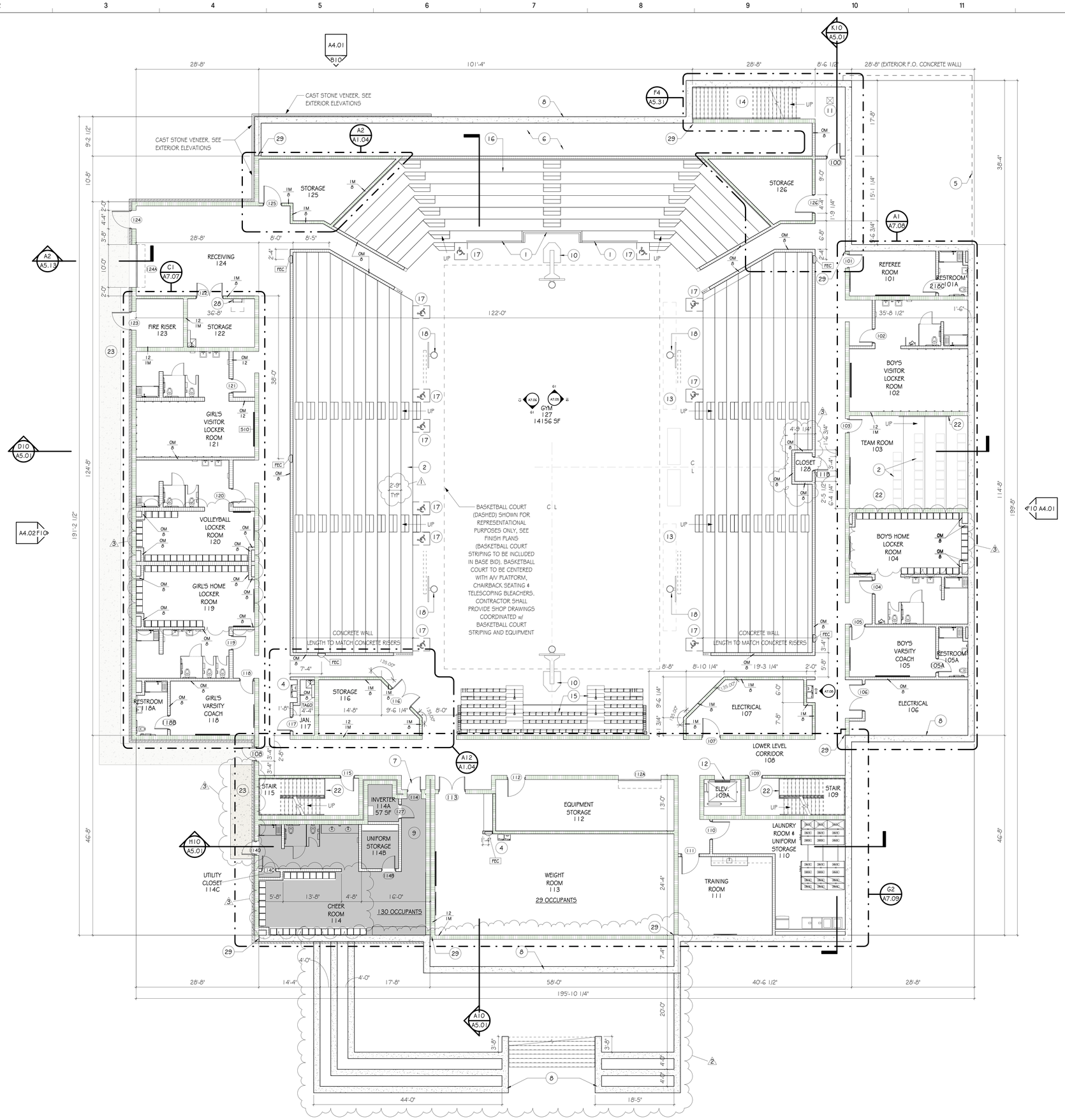
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

TYPICAL CONSTRUCTION TYPES

G1.20



A6 FLOOR PLAN - LOWER LEVEL

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

GENERAL NOTES - FLOOR PLAN

1. RAILING CLEARANCES SHALL NOT EXCEED 4" CLEAR, TYPICAL WHERE RAILINGS TERMINATE AT WALLS, STAIRS OR ADJACENT RAILINGS.
2. REFER TO UL D902 REQUIREMENTS FOR COMPOSITE STEEL FLOOR AND ROOF ASSEMBLIES. SEE STRUCTURAL
3. REFER TO UL J957 REQUIREMENTS FOR HOLLOWCORE ASSEMBLIES. SEE STRUCTURAL
4.

KEY NOTES - FLOOR PLAN

1. 42" CABLE GUARDRAIL, SEE DETAILS
2. PRIORITY SEATING, SEE SPECIFICATIONS & SEATING PLAN
3. GLASS DISPLAY CASE, SEE SPECIFICATIONS
4. DRINKING FOUNTAIN w/ BOTTLE FILLER. COORDINATE w/ PLUMBING FOR WATER AND ELECTRICAL FOR POWER.
5. LOCATION OF EXTERIOR WALL ABOVE (DASHED)
6. 4 x 4 FIRE RETARDENT PLYWOOD
7. TORNADO RESISTANT DOOR & FRAME. SEE SCHEDULE
8. CONCRETE RETAINING WALL. SEE STRUCTURAL
9. DESIGNATED STORM SHELTER (HATCHED REGION)
10. ROLLING BASKETBALL GOAL. O.F.O.I (OWNER FURNISHED OWNER INSTALLED), SEE SPECIFICATIONS
11. CATCH BASIN. SEE CIVIL
12. MACHINE ROOMLESS ELEVATOR. SEE BUILDING SECTIONS AND/OR SPEC.'S
13. TEAM SEATING AREA
14. EXTERIOR STAIR. SEE CIVIL
15. TELESCOPING BLEACHERS. SEE SEATING PLAN
16. STANDARD CHAIRBACK SEATING, SEE SEATING PLAN & SPECIFICATIONS
17. ADA DESIGNATED AISLE SEAT
18. RETRACTABLE CEILING MOUNTED BASKETBALL GOAL. O.F.C.I OWNER FURNISHED CONTRACTOR INSTALLED). SEE SPECIFICATIONS
19. 50' x 94' REGULATION BASKETBALL COURT, SEE STRIPING PLAN
20. CAST-STONE WALL CAP w/ CONCRETE RETAINING WALL BELOW. SEE STRUCTURAL FOR RETAINING WALL DETAILS
21. CANOPY ABOVE. SEE EXTERIOR DETAILS
22. 1 1/2" DIA. HANDRAIL. SHOP PRIMED & POWDER COATED
23. SIDEWALK, SEE CIVIL
24. AUDIO / VIDEO PLATFORM AT MAIN LEVEL. ALL COMPONENTS AND INSTALLATION BY SEATING MANUFACTURER
25. PREFINISHED METAL COPING. SEE SPECIFICATIONS
26. MECHANICAL ROOF TOP UNIT (SHOWN DASHED FOR REPRESENTATIONAL PURPOSES ONLY). SEE MECHANICAL DRAWINGS
27. SLOPED CONCRETE WALL (SEE STRUCTURAL) w/ RAILING ABOVE. RAILING COMPONENTS AND INSTALLATION BY RAILING MANUFACTURER.
28. ACCESS LADDER. SEE SPECIFICATIONS
29. EXPANSION JOINT. SEE STRUCTURAL
30. PREFABRICATED EXTRUDED ALUMINUM POST-SUPPORTED WALKWAY COVER. INSTALL PER MANUFACTURER REQUIREMENTS. SEE DETAILS
31. MECHANICAL CHASE
32. WALL MOUNTED SINK. COORDINATE w/ PLUMBING

WALL LEGEND

- INTERIOR GYPSUM ON METAL STUD
- 8" CMU
- 1-HOUR RATED 12" CMU
- CAST IN PLACE CONCRETE

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DCM # 20240548
GMC: AHUN230009

FLOOR PLAN - LOWER LEVEL

A1.01

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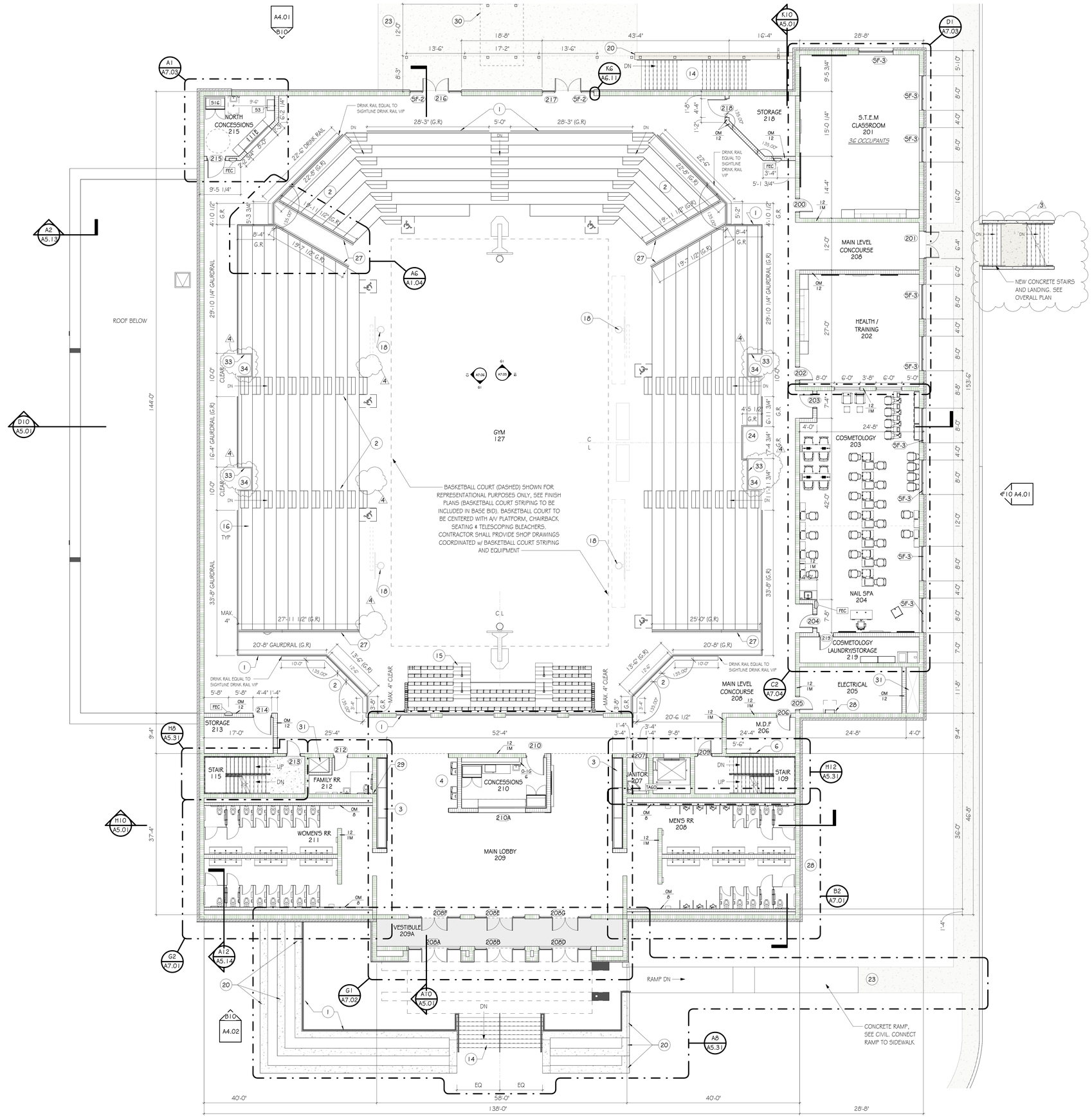

PLAN NORTH

TRUE NORTH

A6 PLAN - MAIN LEVEL

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

GENERAL NOTES - FLOOR PLAN

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KEY NOTES - FLOOR PLAN

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30. PREFABRICATED EXTRUDED ALUMINUM POST-SUPPORTED WALKWAY COVER. INSTALL PER MANUFACTURER REQUIREMENTS. SEE DETAILS
31. MECHANICAL CHASE
32. WALL MOUNTED SINK. COORDINATE w/ PLUMBING
33. ADA COMPLIANT 26" GUARDRAIL (1 1/2" DIA., TYPICAL) AT ADA PLATFORM
34. CONCRETE PLATFORM FOR DESIGNATED ADA SEAT AND COMPANION SEAT

WALL LEGEND

- INTERIOR GYPSUM ON METAL STUD
- 8" CMU
- 1-HOUR RATED 12" CMU
- CAST IN PLACE CONCRETE

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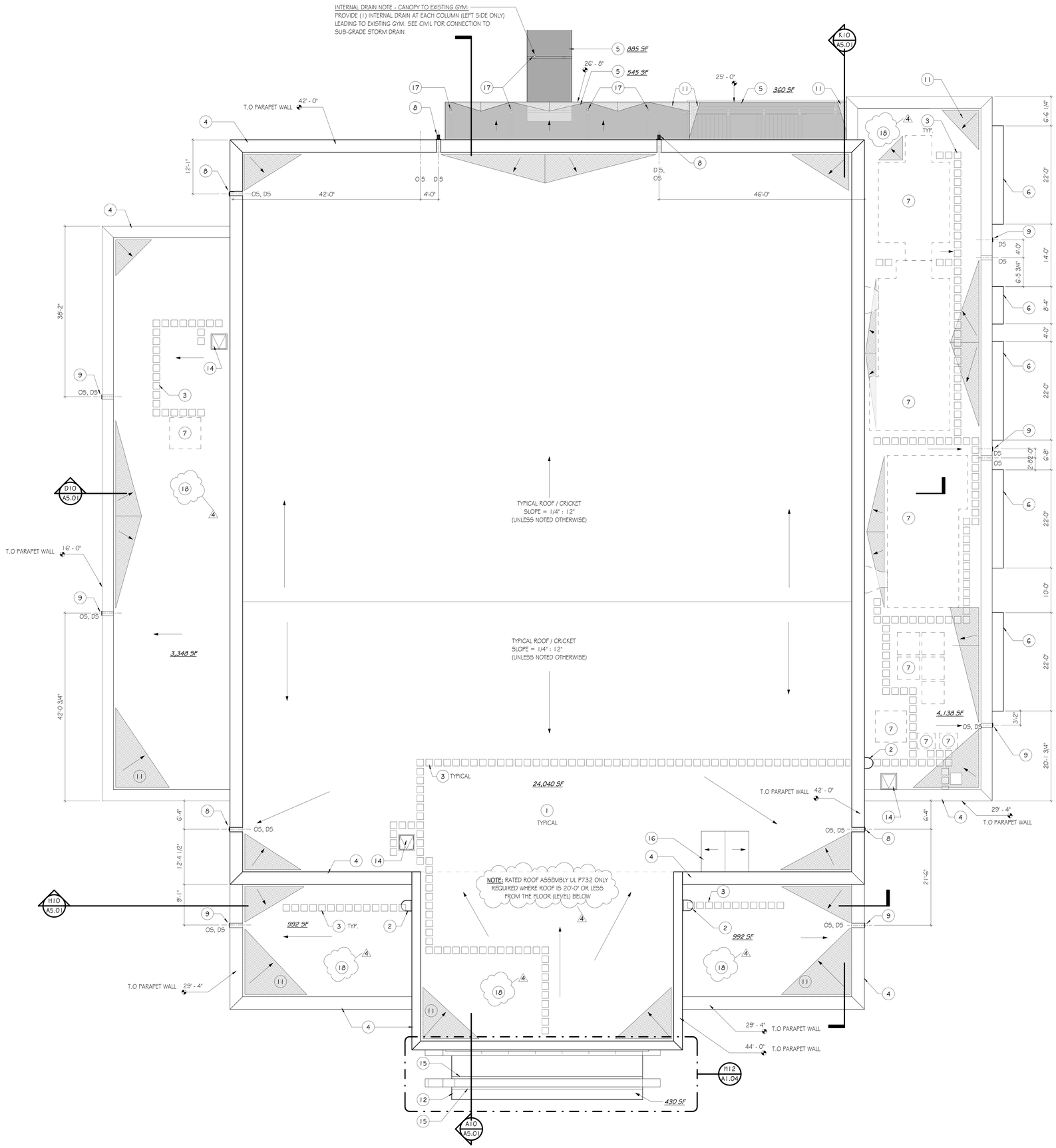
FLOOR PLAN - MAIN LEVEL

A1.02

TEMPLATE VERSION: 20221

1/9/2025 4:45:29 PM



PLAN NORTH

TRUE NORTH

A6 ROOF PLAN

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

ABBREVIATIONS - ROOF PLAN

OS = OVERFLOW SCUPPER

DS = DOWNSPOUT

OC = ON CENTER

SF = SQUARE FEET

GENERAL NOTES - ROOF PLAN

1. DOWNSPOUTS 6" (TYPICAL) UNLESS NOTED OTHERWISE
2. PARAPET HEIGHTS ARE BASED ON LOWER LEVEL FLOOR ELEVATION (0'-0").

KEY NOTES - ROOF PLAN

1 TPO MEMBRANE ROOF ASSEMBLY. SEE WALL SECTIONS AND ROOF DETAILS

2 ROOF ACCESS LADDER, SEE SPECIFICATIONS

3 ROOF WALKING PADS, SEE SPECIFICATIONS

4 PREFINISHED METAL COPING (CMU PARAPET WALL BELOW). SEE WALL SECTIONS & DETAILS

5 PREFABRICATED METAL CANOPY. SEE SECTIONS

6 PREFABRICATED METAL SUNSHADE. SEE SECTIONS

7 ROOF TOP UNIT (MECHANICAL EQUIPMENT). LOCATIONS SHOWN ON ARCHITECTURAL ROOF PLAN ARE FOR REPRESENTATIONAL PURPOSES ONLY. SEE MECHANICAL DRAWINGS FOR APPROXIMATE LOCATIONS, CURBS AND ROOF PENETRATIONS

8 8" DOWNSPOUT (DS). PROVIDE CAST-IRON BOOT AT EACH DOWNSPOUT LOCATION. IN TURF PVC, DS IN CONC., COORDINATE w/ CIVIL TO CONNECT TO SUB-GRADE STORM DRAIN

9 6" DOWNSPOUT (DS). PROVIDE BOOT AT EACH DOWNSPOUT LOCATION. COORDINATE w/ CIVIL TO CONNECT TO SUB-GRADE STORM DRAIN

10 OVERFLOW SCUPPER

11 ROOF CRICKET (1/4" PER 12" SLOPE, TYPICAL)

12 METAL CANOPY AT FRONT PLAZA. SEE WALL SECTIONS

13 PREMANUFACTURED ROOF HATCH

14 ROOF HATCH. SEE SPECIFICATIONS

15 PREFINISHED METAL CHANNEL DRAIN. SLOPE TOWARDS INTERNAL DRAIN AT ACM PILASTER. SEE DETAILS

16 T.P.O MEMBRANE ROOFING, TYPICAL (OVER ELEVATOR SHAFT)

17 4" SQUARE INTERNAL DRAIN. COORDINATE w/ CIVIL TO CONNECT TO SUB-GRADE STORM DRAIN.

18 RATED ROOF ASSEMBLY (UL P732)

4

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DCM FINAL SUBMITTAL	11.14.24
4 ADDENDUM #5	1.9.2025

DRAWN BY: DC
CHECKED BY: JP

STATE of ALABAMA
Jay W Purkey
9063
Owens Cross Roads, Alabama
REGISTERED ARCHITECT

1/9/2025

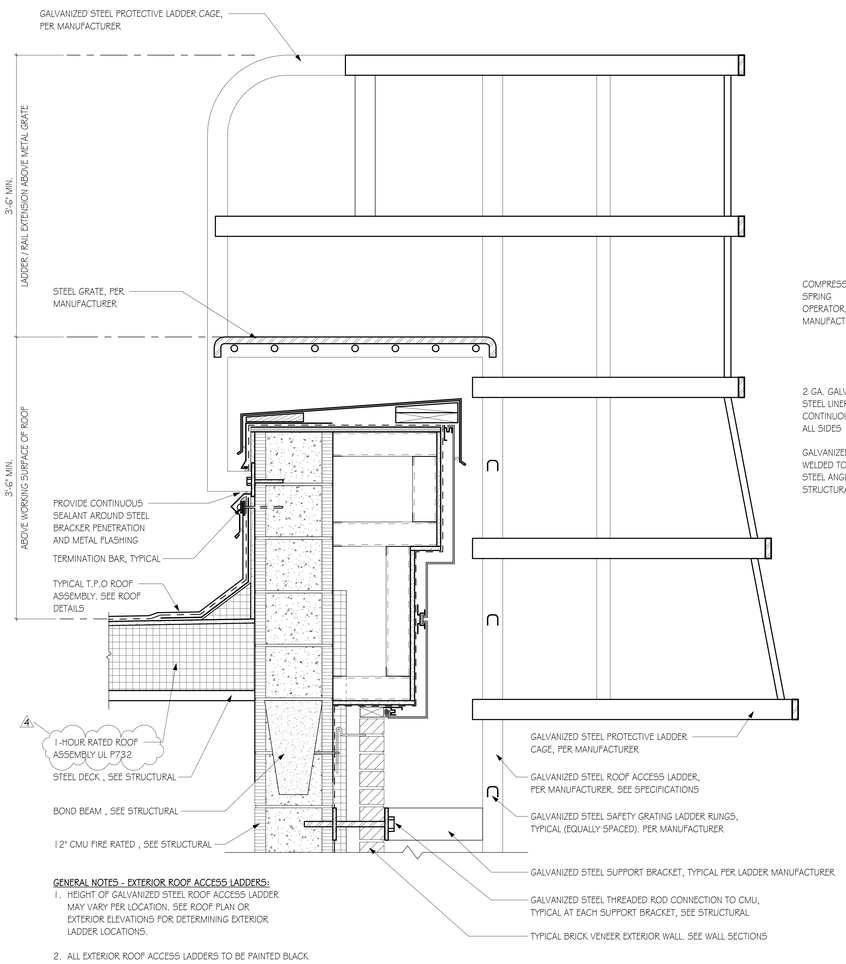
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

ROOF PLAN

A3.01

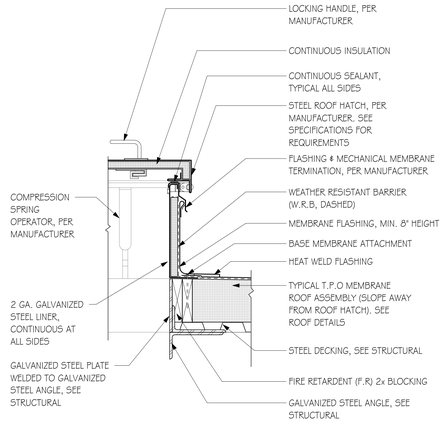
1/9/2025 10:38:25 AM TEMPLATE VERSION: 2022.1



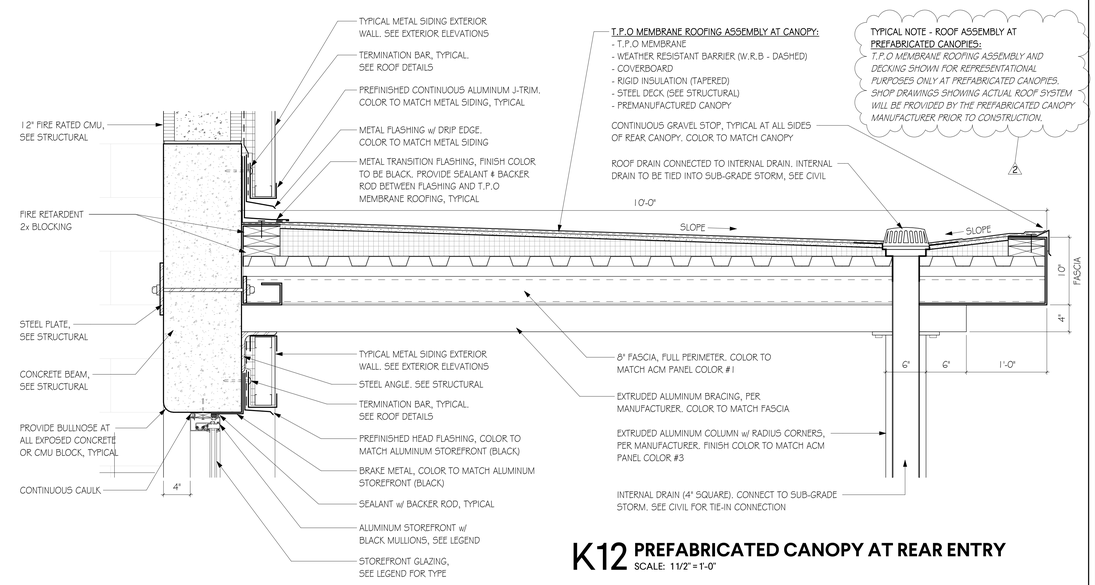
GENERAL NOTES - EXTERIOR ROOF ACCESS LADDERS:

1. HEIGHT OF GALVANIZED STEEL ROOF ACCESS LADDER MAY VARY PER LOCATION. SEE ROOF PLAN OR EXTERIOR ELEVATIONS FOR DETERMINING EXTERIOR LADDER LOCATIONS.
2. ALL EXTERIOR ROOF ACCESS LADDERS TO BE PAINTED BLACK.

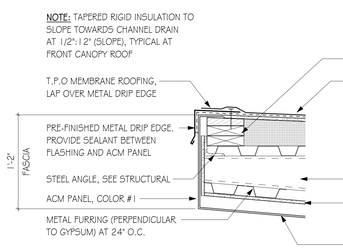
F3 EXTERIOR ROOF ACCESS LADDER
SCALE: 11/2" = 1'-0"



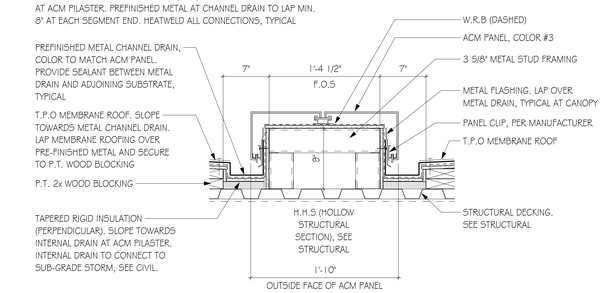
K6 TYPICAL ROOF HATCH
SCALE: 11/2" = 1'-0"



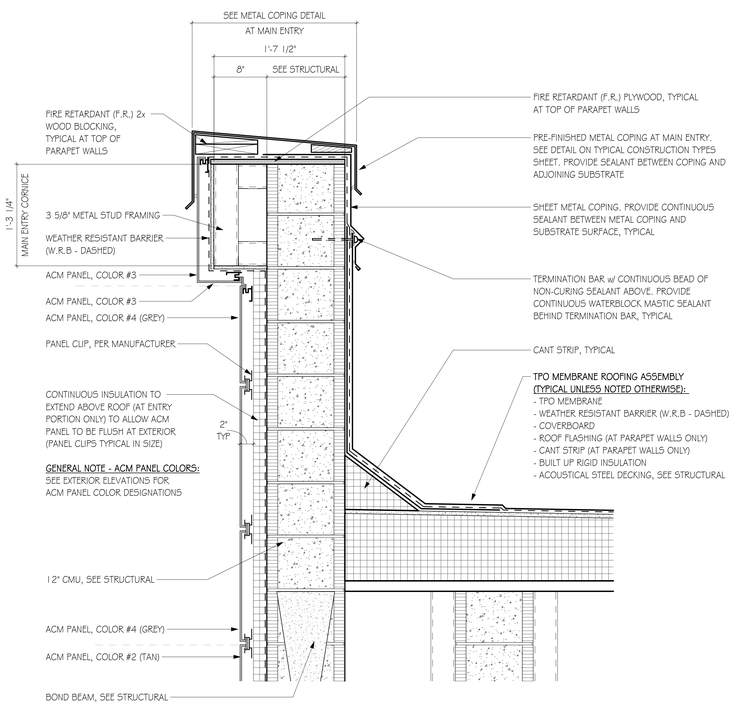
K12 PREFABRICATED CANOPY AT REAR ENTRY
SCALE: 11/2" = 1'-0"



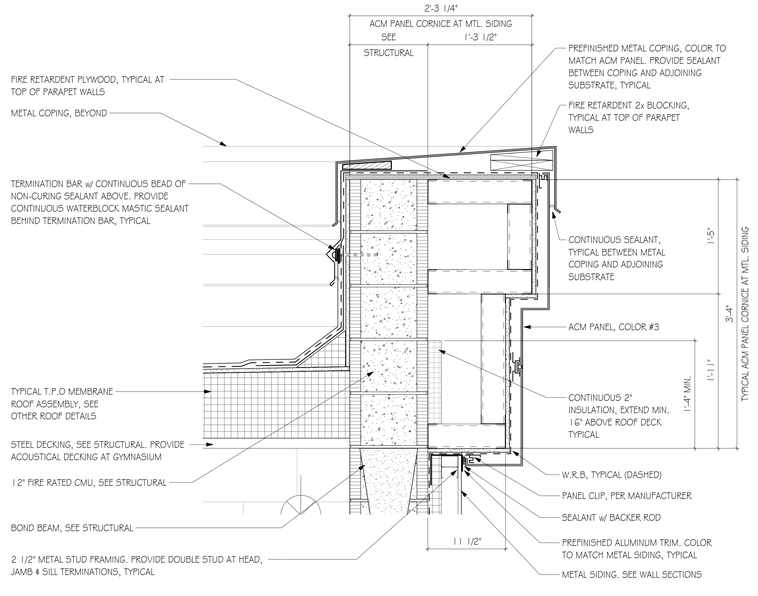
F9 FRONT CANOPY - FASCIA
SCALE: 11/2" = 1'-0"



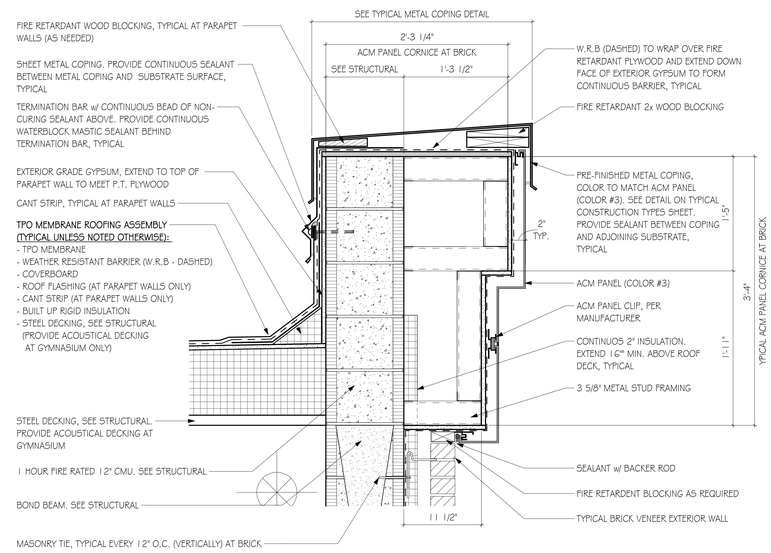
F12 HORIZONTAL ACM AT FRONT CANOPY
SCALE: 11/2" = 1'-0"



A3 ACM PANEL CORNICE AT MAIN ENTRY
SCALE: 11/2" = 1'-0"



A8 ACM CORNICE AT METAL SIDING
SCALE: 11/2" = 1'-0"



A12 TYPICAL ACM PANEL CORNICE
SCALE: 11/2" = 1'-0"

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4 ADDENDUM #5	1.9.2025

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Jay W Purkey
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Owens Cross Roads, Alabama
REGISTERED ARCHITECT
1/9/2025

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

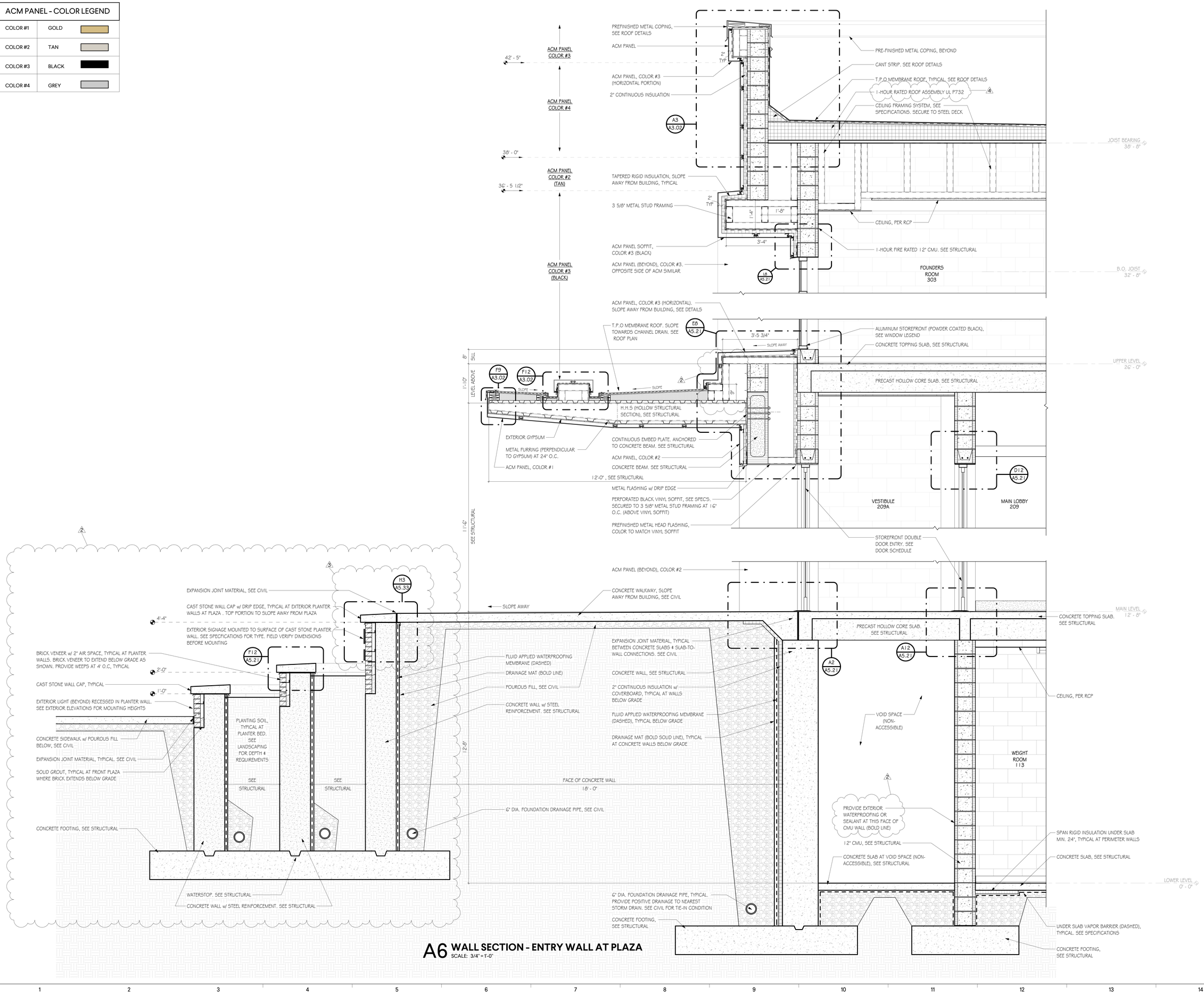
DCM # 20240548
GMC: AHUN230009

ROOF DETAILS

A3.02

1/9/2025 11:13:31 AM TEMPLATE VERSION: 2022.1

ACM PANEL - COLOR LEGEND	
COLOR #1	GOLD
COLOR #2	TAN
COLOR #3	BLACK
COLOR #4	GREY



A6 WALL SECTION - ENTRY WALL AT PLAZA

SCALE: 3/4" = 1'-0"

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3 ADDENDUM #4	1.3.25
4 ADDENDUM #5	1.9.2025

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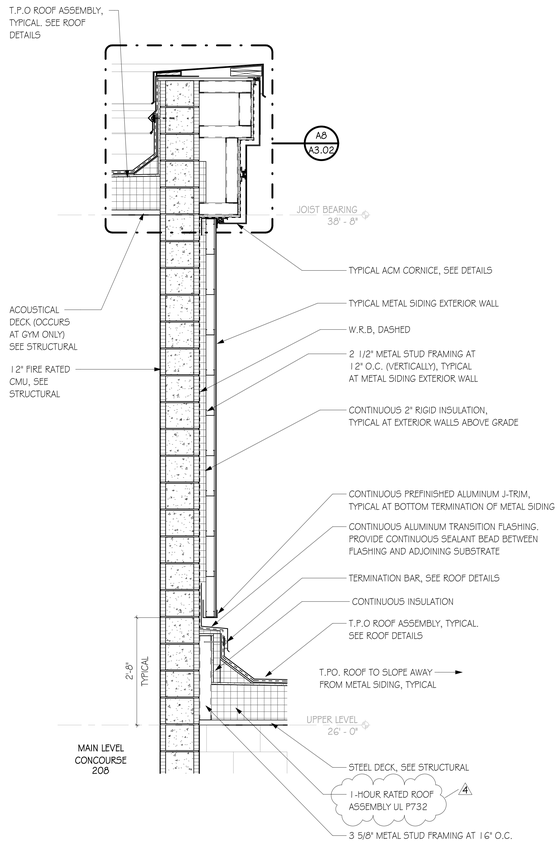
FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

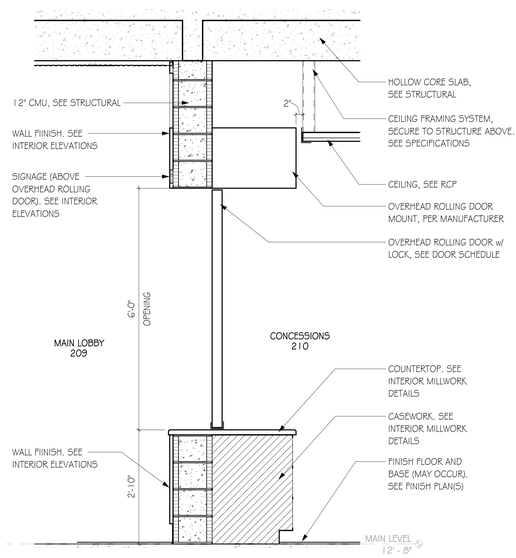
WALL SECTIONS

A5.11

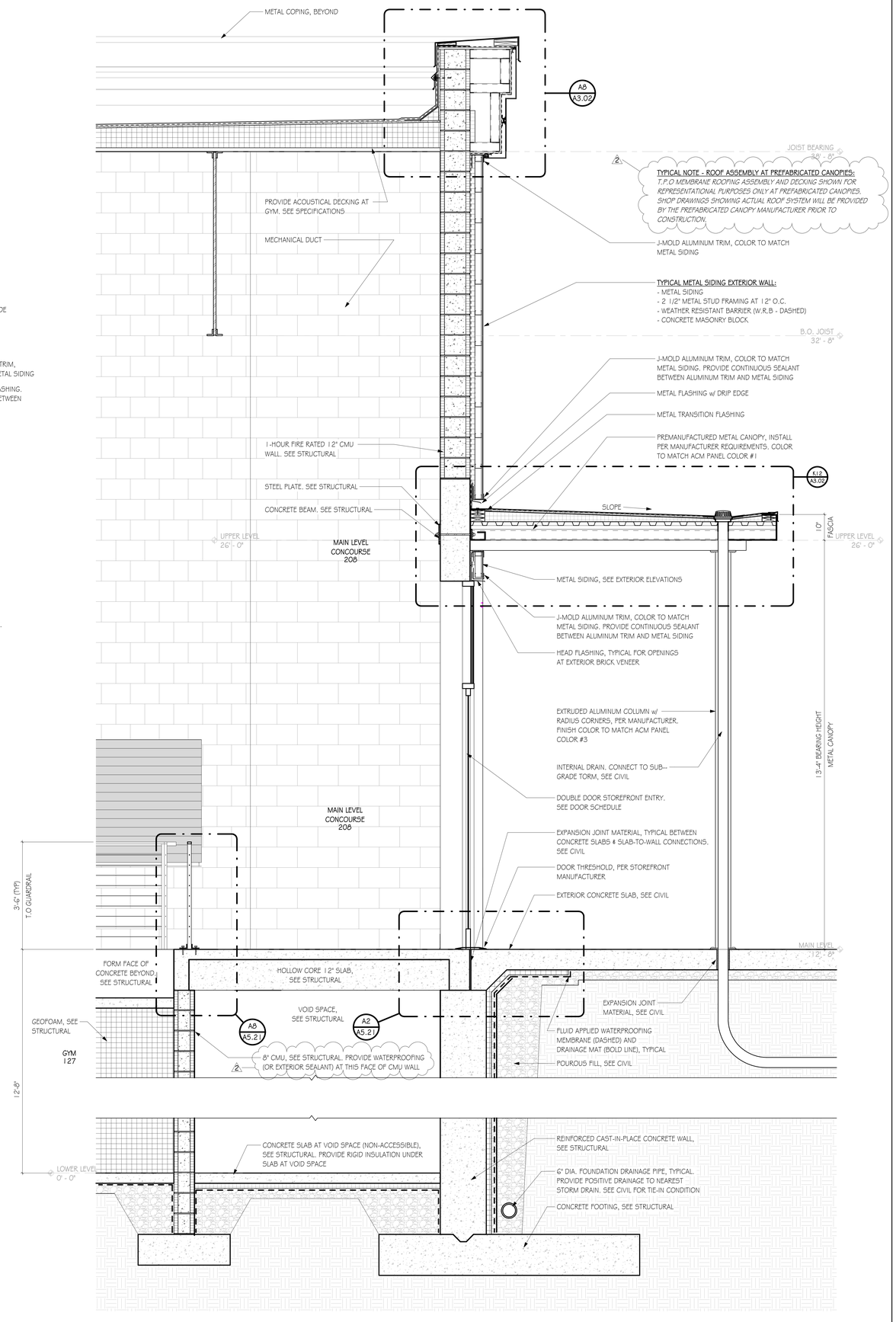
ACM PANEL - COLOR LEGEND		
COLOR #1	GOLD	
COLOR #2	TAN	
COLOR #3	BLACK	
COLOR #4	GREY	



G6 METAL SIDING ABOVE CLASSROOMS
SCALE: 3/4" = 1'-0"



D1 CONCESSIONS - OVERHEAD ROLLING DOOR
SCALE: 3/4" = 1'-0"



A12 WALL SECTION - REAR ENTRY WALL
SCALE: 3/4" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE,
FORT PAYNE, AL 35967

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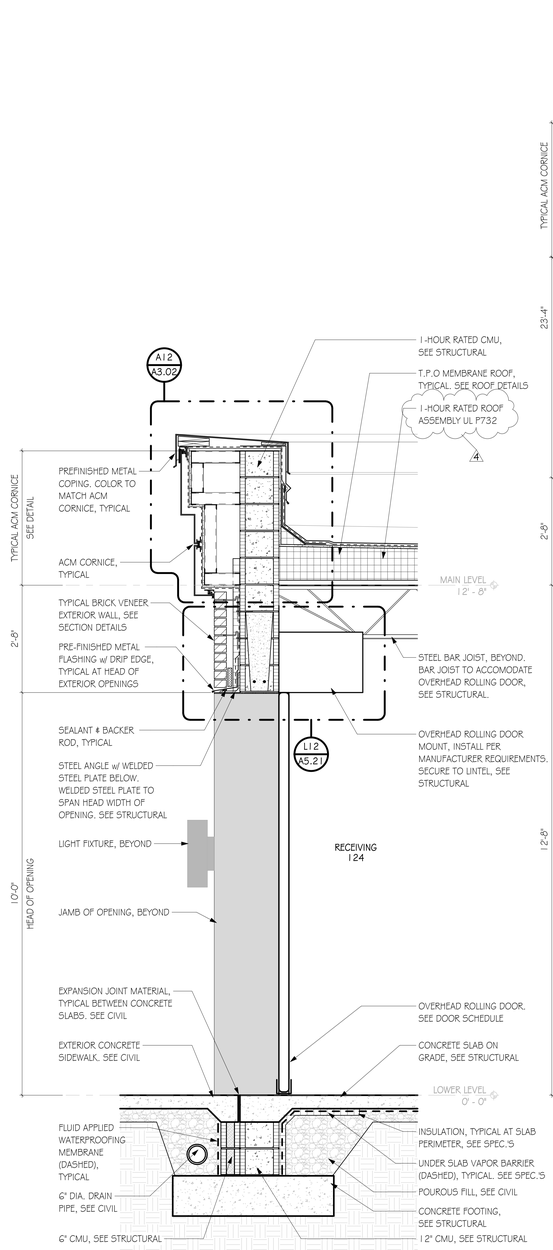
WALL SECTIONS

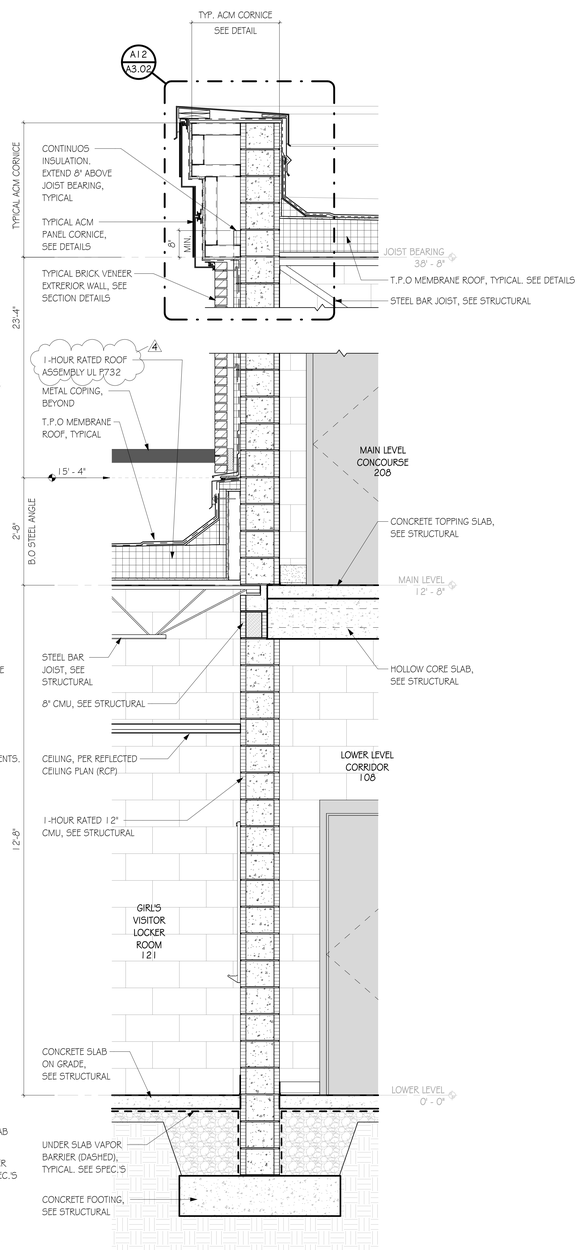
A5.12

1/9/2025 10:52:52 AM TEMPLATE VERSION: 20221



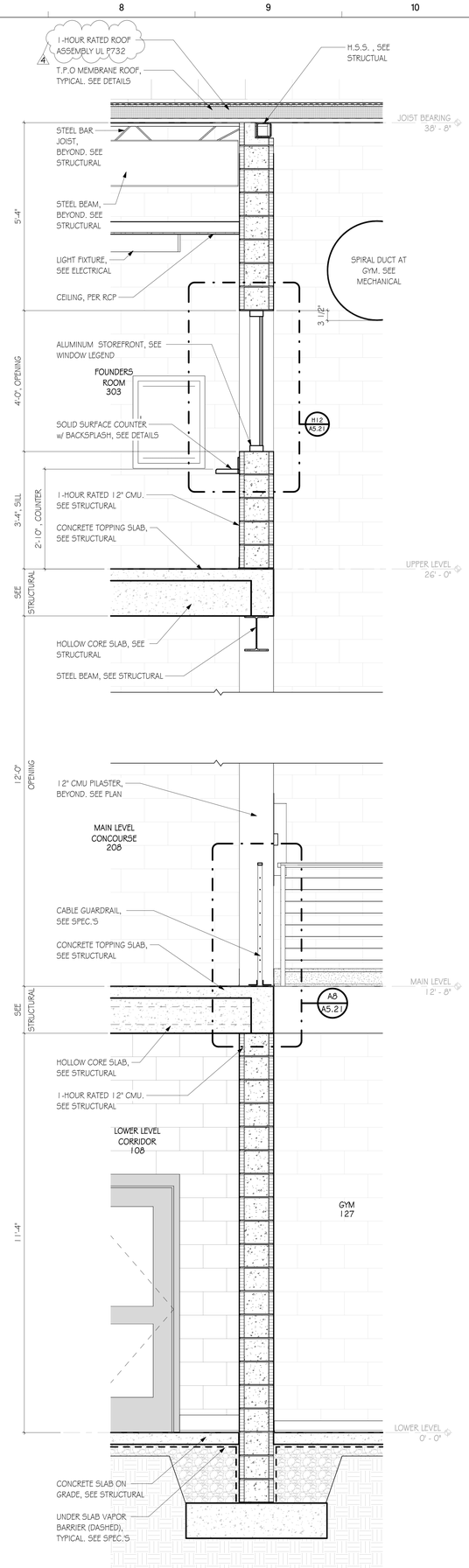
WALL SECTION - OVERHEAD ROLLING DOOR

A2 SCALE: 3/4" = 1'-0"



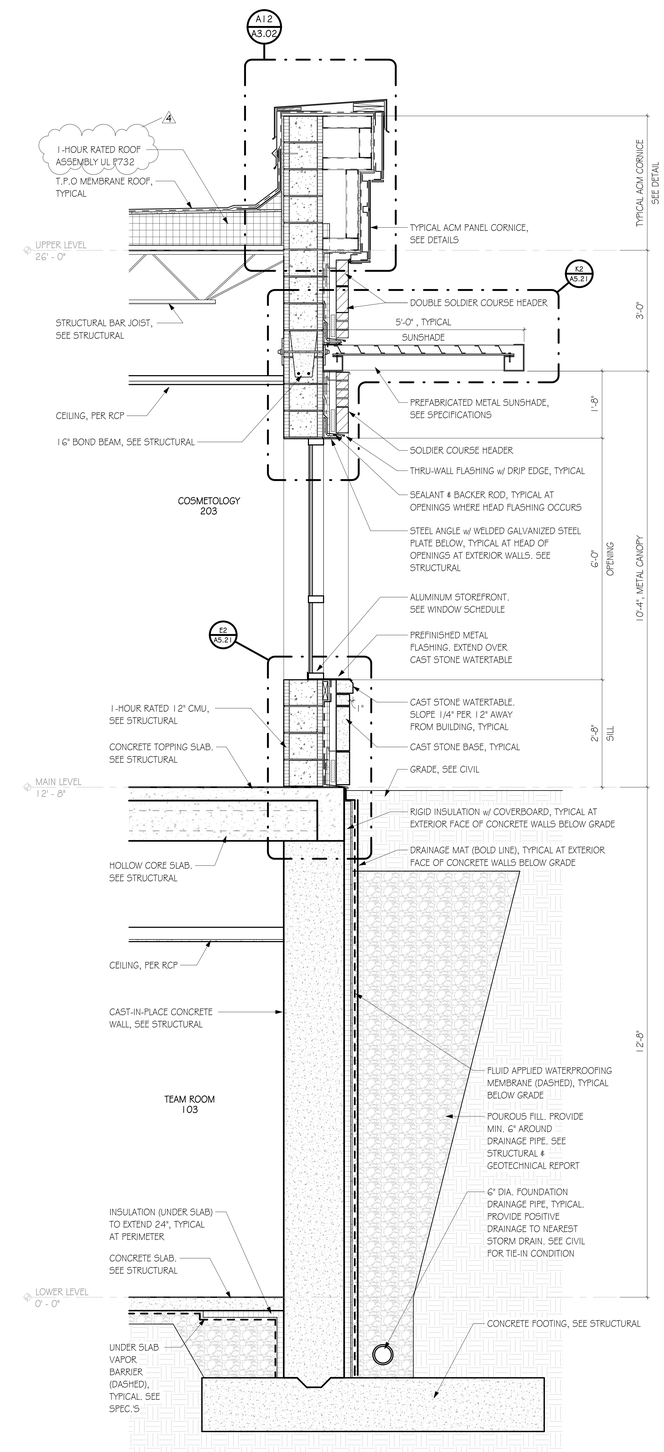
WALL SECTION - DOUBLE HEIGHT WALL AT GYM

A5 SCALE: 3/4" = 1'-0"



WALL SECTION - MAIN LOBBY TO GYM TRANSITION

A8 SCALE: 3/4" = 1'-0"



WALL SECTION - EXTERIOR CLASSROOM WALL

A13 SCALE: 3/4" = 1'-0"

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4 ADDENDUM #5	1.9.2025

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STATE OF ALABAMA
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Owens Cross Roads, Alabama
REGISTERED ARCHITECT

1/9/2025

FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
2014 5th STREET NE,
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

WALL SECTIONS

A5.13

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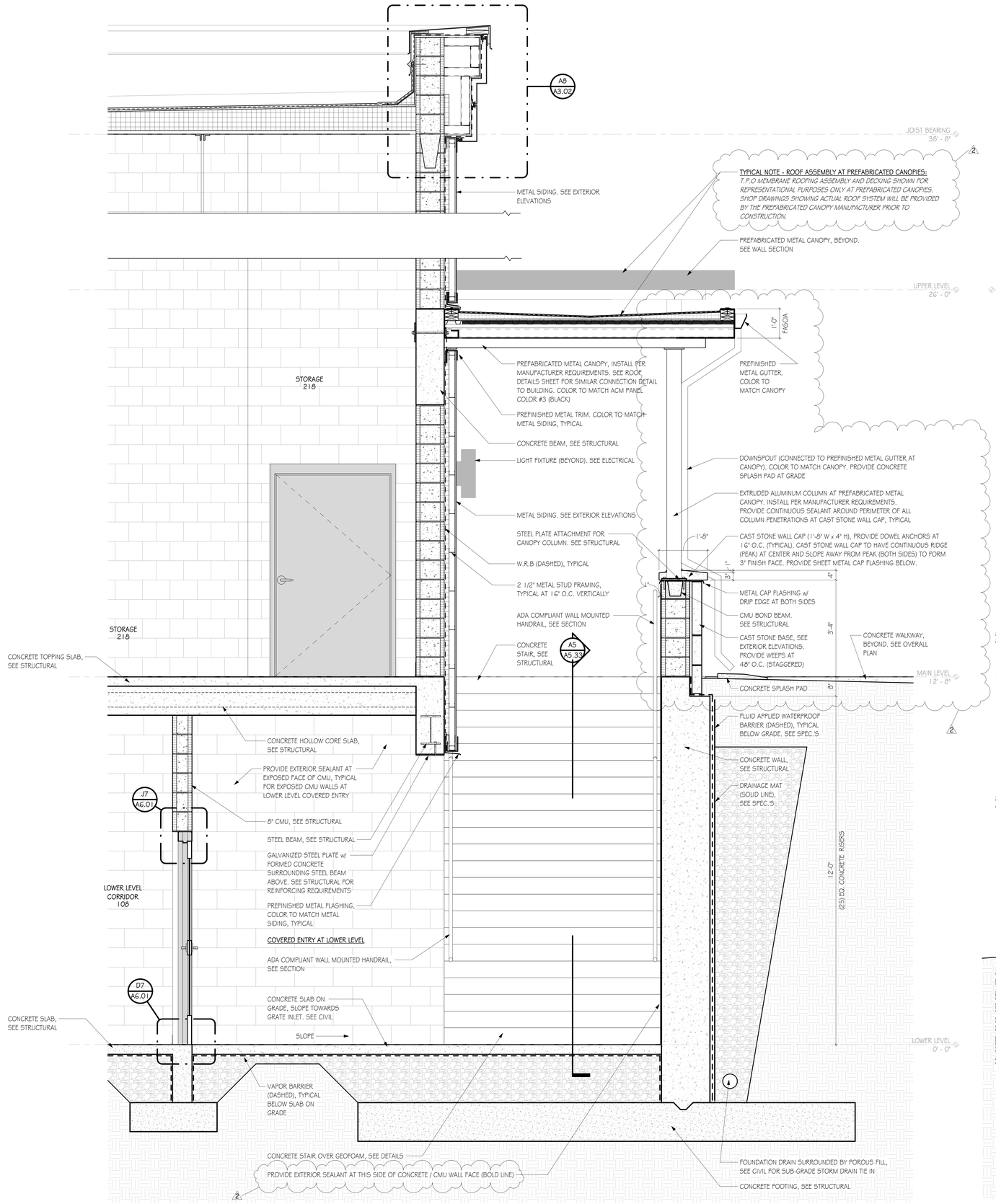
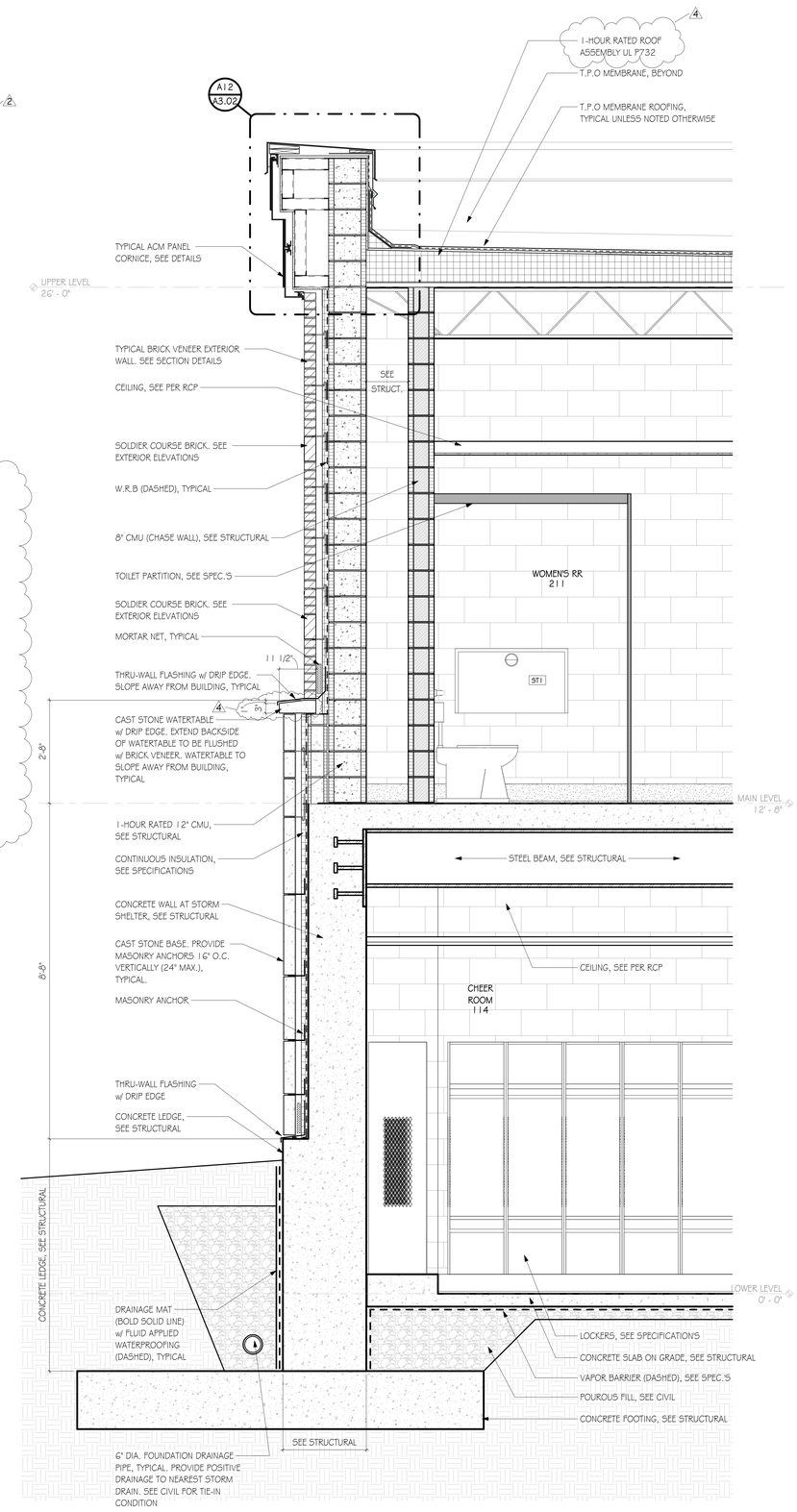


LOWER LEVEL - COVERED ENTRY & EXTERIOR STAIR

A6 SCALE: 3/4" = 1'-0"



STORM SHELTER - CAST STONE AT CHEER ROOM

A12 SCALE: 3/4" = 1'-0"

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FORT PAYNE COMPETITION GYM AND CLASSROOM ADDITION
201 45th STREET NE.
FORT PAYNE, AL 35967

DCM # 20240548
GMC AHUN230009

WALL SECTIONS

A5.14

TEMPLATE VERSION: 2022.1
1/9/2025 11:07:23 AM

_____
CONTRACTOR

ATTACHMENT A

TO PROPOSAL FORM

1.1 UNIT PRICES:

A. The undersigned proposes the following Unit Prices for additions to or deductions from the Work wherein Unit Prices are applicable as determined by the Architect and Owner. These Unit Prices include all charges for labor and materials, fee, layout, supervision (field and home office), general expenses, taxes, insurance, overhead and profit, for Unit Item of Work in place. The Contract sum shall be increased or decreased based upon quantity difference multiplied by the applicable Unit Price, in accordance with the General Conditions.

B. Refer to Section 01 2200 - "Unit Prices", and to the respective sections of the Specifications for the complete Unit Price Item description.

C. Submit the following Unit Prices with the Proposal Form on Bid Date.

ITEM DESCRIPTION:		UNIT:*	UNIT PRICE:
A.	Undercut and backfill in control areas	CY	$ _____
B.	Undercut and backfill in non-control areas	CY	$ _____
C.	Additional Soil:	CY	$ _____
	1. Topsoil	CY	$ _____
	2. Trench backfill	CY	$ _____
	3. Select fill or Open Site Areas (Offsite Source)	CY	$ _____
	4. Select fill or Open Site Areas (Onsite Source)	CY	$ _____
	5. Select Structural Fill	CY	$ _____

D.	Sod	CY	$ _____
E.	Concrete Sidewalk	SF	$ _____
F.	Asphalt Paving	SY	$ _____
G.	Dimmer Switches	EA	$ _____
H.	Data Receptacles	EA	$ _____
I.	Data Outlets	EA	$ _____
J.	Fire Alarm Strobes	EA	$_____
K.	Fire Alarm Pulls	EA	$_____
L.	Exit Signs	EA	$_____
M.	Rock, Masonry, or Concrete Excavation in Trenches & Pits below elevations indicated	CY	$_____
N.	Rock, Masonry, or Concrete Excavation in Open Excavation below elevations indicated	CY	$_____
O.	Crushed Stone	TN	$ _____
	a. Class II Rip-Rap with Filter Blanket	TN	$ _____
	b. No. 2 Stone	TN	$ _____
	c. No. 57 Stone	TN	$ _____
	d. Dense Graded Aggregate Base Type B	TN	$ _____

(*) Legend to "unit" quantity abbreviations:

CY	Per "Cubic Yard"
SY	Per "Square Yard"
TN	Per "Ton"
SF	Per "Square Foot"
LF	Per "Linear Foot"

END OF ATTACHMENT A TO PROPOSAL FORM

Fort Payne High School Competition Gym and Classroom Addition				GMC RFI Log		
NO.	REC'D	QUESTION	RESP. Date	RESPONSE	ADD.	WHO
1	11/25/2024	Can you clarify flooring specifications for resielient and wood floors	12/6/2024	Remove spec for flooring from Add 1. Flooring will be purchased direct by the Owner from an allowance. See updated allowance sheet.	1	
2	11/25/2024	Can the bid date be pushed untill after the holidays	12/6/2024	Only if the DCM Final Review / Approval has not been granted	1	
3	11/25/2024	Provide finish hardware spec	12/6/2024	See specifications section added	1	
4	11/25/2024	Provide first page of section 0 3360	12/6/2024	See specifications it is in there	1	
5	11/25/2024	Provide bleacher & seating specification	12/6/2024	Bleachers and seating is direct by Owner. Not in the bid.	1	
6	12/3/2024	Does this project require BIM coordination	12/6/2024	No	1	
7	12/3/2024	Can the REVIT model be shared	12/6/2024	No	1	
8	12/3/2024	Can CAD files be provided	12/6/2024	Yes see CAD release and fee sheet in addendum	1	
9	12/3/2024	Will the GC be required to use/pay for E-Builder Service	12/6/2024	No, E-Builder will not be utilized on this project	1	
10	12/3/2024	Page 2 of the Allowance Section is missing	12/6/2024	See revised allowance section attached in Addendum 1	1	
11	12/3/2024	Please provide Unit Price Cost Sheet for the Allowances Section	12/6/2024	See attached in Addendum 1	1	
12	12/3/2024	Provide per/bag allowance for colored mortar	12/6/2024	See revised section in Addendum 1	1	
13	12/4/2024	Who is responsible for Utility Connection Fees/Aid to Construct Fees?	12/6/2024	See Allowance 1 in Section 01 2100	1	
14	12/4/2024	Civil dwgs show FFE 974.50 & Arch shows FFE @ 971.17 , Please advise	12/12/2024	See attached revised Civil sheets in Addendum 2. Note that the elevations of the exterior stair in the front and the landscape planting walls has changed. Also note, the change in the sidewalkand stair elevations and layout on the south side. Note also that each of the exterior stairs shall receive 1-1/2" powder coated handrails on each side that meet ADA	2	
15	12/4/2024	Please clarify slab thicknesses out side the court area? 6" under seating?	12/6/2024	6" slabe under all geofoam at CMU and conc. walls including bleachers and exterior stairs. See detail 12/S3.01 for slab transition. See attached dwg in Addendum 1 depicting area for 6" slab. Note 8" slab at storage system area per note on S2.00	1	
16	12/4/2024	Please provide mud slab detail at gym floor slab on grade	12/6/2024	See revised detail sheet in Addendum 1	1	
17	12/4/2024	Please provide detail for retaining wall on sheet C2.01	12/624	See revised detail sheet in Addendum 1	1	
18	12/5/2024	Please clarify where colored stained concrete is in the project	12/6/2024	References to stained concrete do not apply to this project	1	
19	11/26/2024	Should exterior glazing be 1" and interior glazing be 1/4"	12/6/2024	Yes	1	
20	11/26/2024	Are storefront elevations SF-6 & 7 to be 1hr rated systems	12/6/2024	All the doors in the structural 1 hr rated walls are required to be 45 min. Any glazing in these openings shall be required to match that rating.	1	
21	11/26/2024	Where are spandrel glass IG-1 & 2 located	12/6/2024	There is no sprandrel glass in the scope	1	
22	11/26/2024	Do storefront doors 208 A thru G require rated glazing 1" or 1/4"	12/6/2024	No ratings. Theses are typical heavy duty storefront doors w/ 1" glazing units	1	
23	11/26/2024	Does the trophy case require cable suspended shelving	12/6/2026	Yes, per details	1	
24	11/26/2024	Is 3" roof deck shown on S2.03 to be acoustical deck	12/12/2024	Yes in the open gym arean area	1	
25	11/26/2024	Spec Sections reference intergrated A/V systems in TOC are missing	12/6/2024	This is a typo in the table of contents and does not apply to this project	1	
26	11/26/2024	Does the project have auger cast piles	12/6/2024	No, this is typo in the table of contents	1	
27	11/26/2024	Does any of the glazing receive film	12/6/2026	No this is a typo in the spec and will be removed	1	
28	11/27/2024	Please provide detail for hollow core penetration	12/6/2026	Per note 6 on S2.01 coordinate mechancial openings with hollow core supplier prior to fabrication of panels. Hollow core supplier shall show and design for openings on their shop drawing submittal - SDG	1	
29	11/27/2024	Are their additional specifications for the center hung scoreboard	12/6/2021	See cut sheet provided in Addendum 2	2	
30	11/27/2024	Are their additional specifications for the cosmotology equipment	12/11/2024	Sheet A7.04 has all the information	2	
31	11/27/2024	Is it accepted to core drill into concrete walls for toilets and vents	12/11/2024	Acceptable to a mzx of 4" into walls. Avoid #4 's at 12 EW in face of wall	2	
32	11/27/2024	Verify mounting location of clieling mount bball goals	12/12/2024	See revised sheet S2.03	2	
33	11/27/2024	Clarify spec & or allowances for signage, cubicle curtains and roller shades	12/12/2024	Signage Allowance is in the spec manual. No curtains in the project	2	
34	11/25/2024	Is Alabam Disclosure Statement required	12/6/2024	Yes to be in bid envelope	1	
35	12/2/2024	Provide dimensions on seating risers	12/6/2024	See revised dwg attached to Addendum 1	1	
36	12/2/2024	Who is responsible for relocating monument sign	12/6/2024	The General Contractor	1	
37	12/2/2024	Clarify allowance for signage	12/6/2024	Signage Allwance is in the spec manual. Wall graphics allowance is also in the spec manual.	1	
38	12/3/2024	Provide PSI for topping slab	12/6/2024	See Note 4.2 on S1.00 Unless noted use 4000PSI. Hollow core mfr. can use up to 2" of conc. topping slab for composite action and will specify a conc. strength required. The strenght specified by the mfr. shall control unless otherwise noted. SDG	1	
39	12/3/2024	Clarify finished floor elevations	12/6/2024	See revised Civil Plans attached to Addendum 2	2	
40	12/3/2024	Are the planter walls to be concrete or CMU	12/6/2024	Concrete. Go with S-sheet details.		
41	12/5/2024	Is the instructors chair in the scope , if so provide spec	12/6/2024	Not in scope	1	
42	12/5/2024	Clarify the void space next to weight room on sheet A6/5.11	12/6/2024	See revised drawing attached Addendum 1	1	
43	12/5/2024	Clarify coordination between details 9/S3.04 & E8/A5.21	12/6/2024	Details on A sheet shows light gauge framing that struct does not cover	1	
44	12/5/2024	Clarify location of perforated black soffit in detail E8/A5.21	12/6/2024	On the bottom of the air space and conc. beam to cover the gap	1	
45	12/5/2024	Are any of the roll up doors fire rated and / or counter roll up doors	12/6/2024	Roll up doors are not rated. Concesions doors shall be counter	1	
46	12/5/2024	Can utilities be ran under the footings to avoid step footings	12/6/2024	All utilities are to extend above footings per dwgs. SDG	1	
47	12/5/2024	Is there a limited action elevator in the project	12/6/2024	No	1	
48	12/6/2024	Is there an irrigation system planned for the project	12/6/2024	No	1	
49	12/6/2024	Should there be TPO and metal deck on pre-fab canopy	12/6/2024	No, this will utltimately be designed by the mfr w/ shop dwgs.	1	
50	12/6/2024	Who is purchasing and installing the refrigerator and microwave	12/6/2024	Owner Furnished Contractor Installed	1	
51	12/6/2024	Clarify thickness of phenolic lockers and location of shelf	12/11/2024	Standard thickness is acceptable. Note Change to Spec Section 10 5129 Lockers, Part 2 Products Paragraph 2.02 A. line #5 a. change from upper shelf to:Top Option Lock Box with Open Cubby. Also change line #5 f. to :Seat base option-Lift up seat with vent holes. The depth of the lockers is 18"	2	
52	12/9/2024	Where is the dampproofing required	12/10/2024	On conc. and masonry subgrade	2	
53	12/9/2024	Confirm if below grade shoring can be left in place after construction	12/11/2024	The recommendations made in the report are for permanent slopes. We recommend that temporary slopes do not exceed 1.5(H): 1(V). Temporary slopes shall be protected from the weather and monitored for movement. OSHA regulations shall be followed during construction. The soils at the site should be considered Type B soils according to OSHA regulations. If steeper temporary slopes are required, we recommend a shoring plan be developed by the contractor and submitted for review. We typically do not have an issue with leaving the shoring in-place after construction as long as it does not interfere with any other structures or utilities.	2	
54	12/9/2024	Provide spec for vynle soffit	12/12/2024	See Section 07 4633 attached to Addendum 2	2	
55	12/9/2024	Are below grade walls to receive air barrier	12/10/2024	No , only waterproofing and drainage board	2	
56	12/9/2024	Does the elevator pit receive anything other than vapor barrier	12/10/2024	Yes, waterproofing and drainage board	2	
57	12/9/2024	Provide spec for geo foam	12/12/2024	See attached spec section in Addendum 2	2	
58	12/9/2024	Is AISC Certification required for steel fabricators	12/10/2024	Yes, per note on structural plans	2	
59	12/9/2024	Is the cheer room the only storm shelter	12/10/2024	Yes	2	
60	12/9/2024	Provide more specification for exterior railing system	12/12/2024	See cut sheet for basis of design attached to Addendum 2	2	
61	12/9/2024	Provide more specification for interior drink rail system	12/12/2024	See cut sheet for basis of design attached to Addendum 2	2	
62	12/9/2024	Provide spec for bronze plaque	12/12/2024	See spec section attached to Addendum 2	2	
62	12/9/2024	Clarify doors 304, 305, and 306 not listed on door schedule	12/12/2024	See revised door schedule attached to Addendum 2	2	
63	12/9/2024	How are return air ducts to be insulated	12/12/2024	See revised Specifications (included with Addendum #4{	2	
64	12/6/2024	Do we have to connect to an existing fire alarm system	12/12/2024		2	
65	12/9/2024	Provide Unit Price Form	12/12/2024	See attached to Addendum 2	2	
66	12/9/2024	Clarify material below stairs, foam	12/12/2024	Exterior stair on the East side receives foam not in the interior	2	
67	12/10/2024	Clarify framing in detail g on sht. A5.12 metal panel	12/11/2024	Using Z-girts is acceptable	2	
68	12/10/2024	Clarify downspout boot material	12/11/2024	PVC boots are acceptable for pavement areas. Cast iron, shop primed and painted shall be provide in landscape and turf areas.	2	
69	12/10/2024	Clarify stair nosing type for concrete and pan stairs	12/11/2024	Interior pan stairs should have a metal nosing as part of the pan fabrication by stair designer. Exterior stairs shall have an abrasive nosing embedded into the concrete stair tread	2	
70	12/11/2024	Specify sizes of cast stone pieces	12/12/2024	See detail in Addendum 2	2	
71	12/11/2024	Is there a concrete beam or CMU to anchor the east side canopy		Anchor per detail 8/S3.04. No concrete beam in this location	2	
72	12/11/2024	Doors 111E and 210A	12/11/2024	These doors are RC rolling counter doors	2	
73	12/11/2024	Is the center hung score board OFOI	12/11/2024	No. Should be in your bid	2	
74	12/11/2024	What is Building Management System for the school	12/11/2024	Existing HVAC controls are by Trane	2	
75	12/11/2024	Provide updated Vendor Disclosure Statement	12/12/2024	See attached in Addendum 2	2	
76	12/12/2024	Clarify air and weather barriers for CMU walls	12/12/2024	Fluid applied air barrier shall be for CMU walls per spec	2	
77	12/12/2024	Please Clarify Allowances 14 & 15	12/12/2024	The specifications cover the volume of earthwork and undercut for the project. The allowances cover any additional. See attached revised Allowance Section	2	
79	12/12/2024	Provide spec for bronze plaque	12/12/2024	See spec section attached to Addendum 2	2	
80	12/12/2024	Clarify height of Toilet Partitions	12/12/2024	Partitions shall be 55" per drawings	2	
81	12/12/2024	Confirm 8000 PSI concrete and term "ring beam" in details on S3.03	1/7/2025	See revised Structural drawings included with Addendum #4	2	
82	12/10/2024	Clarify masonry coursing	12/12/2024	Face brick & CMU running bond. See detail for cast stone	2	
83	12/10/2024	Confirm quantities of gym equipement	12/12/2024	4 ceiling mount side basketball goals. 1 volleyball net w/ 2 support post and all other appurtences. Roll away goals shall be by Owner.	2	
84	1/6/2025	Is 6'-0" construction fence required around the site?	1/7/2025	yes, it is required	4	
85	1/6/2025	Clarify correct quantity of backfill to be used fot Unit Pricing	1/7/2025	Earth work provided in the specs covers the volume of undercut and should be in the base bid. The allowance, Is to cover any additional amounts that may arise.	4	
86	1/6/2025	Clarify overhead and profit in the allowances	1/7/2025	See revised allowance spec section and unit price sheet	4	
87	1/6/2025	Clarify waterproofing membrane on A5.32	1/7/2025	Waterproofing membrane shall be below slab at elevator pit and walls below grade at elevator pit. Vapor barrier under slab on grade	4	
88	1/6/2025	Please advise color percentage of roppe recoil color flooring at Weight Room 1077	1/7/2025	Interlocking tiles in a standard color #603 Sunflower. 10% chip content is standard.	4	
89	1/6/2025	Clarify wall base in room 127		Room #127 Gym should reieve VB-1	4	
90	1/6/2025	Provide finish type for east and west walls of toilet room 208 and 211	1/7/2025	HT-1 to the ceiling as shown in the finiish schedule		
91	1/6/2025	Please provide dimensions and model number for the roof hatch	1/7/2025	Personel II Roof Hatch by Badcock as basis of design (36" square min.)	4	
92	1/6/2025	1. Whenever a conduit run will become inaccessible is a space required? ; 2. Clarify approximate location to which the existing power pole is to be relocated? ; 3. Confirm transformer pad location	1/9/2025	1. That requirement would refer to the quantity, not the size of the conduits. However, we will remove this requirement since spaces have been indicated on plans ; 2. TBD by Civil ; 3. See Electrical Site PLan. Contractor must coordinate with the city power company to confirm location	5	
93	12/31/2024	1.Please reference sheet c101, section 2c at the ramp area. Will a guardrail be required at the top of the wall and if required please provide details for guardrail system. ; 2.Please reference sheet c101, section 2c at the ramp area. Please provide details for the rails at the ramp, are they to be single line rails similar to detail on sheet c903 with intermediate posts? Please provide details. ; 3. Are the Front Plaza EXTERIOR Rail system on sheet A8/a5.31, to be stainless steel, powder coated, painted rails? Please provide the finish system for this system. We assume the cables are stainless steel, asking regarding the other components of this railing system.	1/7/2025	See revised Civil Site Plans and Architectural Site Plan / Railing Details	4	
94	1/7/2025	Please provide fire-rated assembly specification for interior openings SF6 and SF7.	1/7/2025	These storefront assemblies will not be fire rated glazing.	4	
95	12/16/2024	Clarify veneer on planter walls	1/7/2025	Cast stone	4	
96	12/16/2024	Confirm bleachers and seating are not in base bid.	1/7/2025	Confirmed, bleachers and seating are not in base bid.	4	
97	12/18/2024	Please clarify wall construction of sloped walls at Gym	1/7/2025	CMU; Top CMU block should be a solid 4" thick cap	4	
98	12/23/2025	Do all aluminum frames in 1-hour walls need to be rated?	1/7/2025	There are no rated aluminum frames. They are exterior doors	4	
99	1/7/2025	Provid expansion joint ype for each condition.	1/7/2025	As basis of design: GFS-W for CMU to concrete walls and ALHD for concrete floors by construction specialties		
100	1/7/2025	Is there a fenec around the dumpster pad?	1/7/2025	No; there is no fence or gate	4	
101	1/7/2025	Water proofing questions	1/7/2025	- At detail 6 on A5.11 waterproofing membrane, drainage mat, and insulation is acceptable; - Weather resistant barrier is not required unde the TPO membrane, except at the parapets. Fluid applied air barrier would be under the TPO and stop at the parapet; - Provide waterproofing in the void space as specified	4	
102	1/7/2025	Clarify types of downspout boots that are acceptable	1/7/2025	Any manufacturer that is equal to the specification	4	
103	1/8/2025	The project is a Construction Type IIA- which requires 1 Hour Structural Frame, 1 Hour Floor Assembly and 1 Hour Roof Assembly. (Roof Assemblies over 20' AFF are allowed to be unrated: 1. The Beams supporting the Hollow Core Slabs would need to be rated---How is this Rating to be achieved ? 2. How is the Roof Assemblies to achieve the 1 Hour Ratings? 3. If Sprayed Fireproofing - Please provide a spec	1/9/2025	See revised UL listings on Floor Plans and Wall Sections	5	
104	1/8/2025	Addendum # 4 shows a 2 Hour Rating per D916 at the Floor Assembly above the Storm Shelter. --Please provide Specs for the Sprayed Fireproofing	1/9/2025	Please see attached UL D916 cutsheet included with Addednum #5	5	
105	1/8/2025	Addendum 4 issued 1/7/2025 included the sign in sheet for the Pre-Bid held on 12/3/2024. There were only two sign in sheets included in Addendum 4. I believe you are missing at least one sign in sheet for this meeting. Jordan Cornelison attended the Pre-Bid for P&C Construction and he told me he signed the sign in sheet. However, the sheets issued with Addendum 4 do not include the sheet with Jordan's sign in. Please provide additional sign in sheets for verification. Thank you.	1/9/2025	See attached Pre-Bid Meeting sign-in sheet	5	
106	1/8/2025	Per spec section 142400, 4.02A.6-8 & 4.02A.16, it calls for 2 stops for only 18' of travel and 9'4" clear hoist way width. Per the plans, it's clear that the elevator is serving 3 stops for a total of 26' of travel which would require elevator contractors to use a 3-stage jack elevator that would require 9'8" of clear hoist way width. Of course, hoist way width is determined by the elevator manufacturer. Please confirm if specifications or plan details are to be used for quoting purposes.	1/9/2025	Plan details and plan sections for 3-stop elevator	5	
107	1/8/2025	Addendum 4 Drawings: Narrative states Sheet C-901 is reissued; however, Sheet C-906 was included in the download, not C-901. Please confirm Sheet C-906 is the intended replacement Sheet.	1/9/2025	Sheet C906 was included with Addendum #4. It is also attached with Addendum #5 for clarity.	5	
108	1/8/2025	Reference Specification Section 09 6723.02, Part 2.01, D.1f states "Aggregates" Broadcast quartz into wet primer coat." However, Part 2.01, D3a states "Material Basis: Stonec Flakes". Question: are we installing a flake system or a quartz system?	1/9/2025	Flake system	5	
109	1/8/2025	Please confirm access doors are in the project as stated in Specification 08 3100. Please give sheet where they are drawn	1/9/2025	Locker room restroom ceilings, Main Level restroom ceilings, total of (7)	5	
110	1/8/2025	Added door opening 114D included with Addendum #4 references FEMA on the added hardware set (21), but the door is wood with an FG-2 Elevation. This cannot be FEMA rated. Please advise	1/9/2025	FEMA rated hollow metal door will be metal, painted	5	
111	1/8/2025	We require the contract subgrade elevation from the Civil Engineer. According to the Geotechnical Report, the soils within the building area are not suitable for subgrade or foundation support. The report reccommends that the building subgrade consists of a minimum of 18" of low-plasticity soils diretly beneath the proposed slab. This will likely require undercutting at least 18" within the building area. Additionally, the building pad limits should extend a minimum of 10' beyond the buildings exterior perimeter. The Finished Floor (FFE) in the GYM is 958'-6". If we subtract the footing elevation of 1'-6" and the recommended 18" undercut, the contract subgrade would be at 955'-6". Could you confirm if this is the correct approach for the contract subgrade? Or should we only account for the 1'-6" for the footings, setting the subgrade at 957'-0"? If we need to undercut the recommended 18", we will apply the unit pricing as outlined in the Geotechnical Report of the building pad limits that include the 10' perimeter.	1/8/2025	There should be 18" of Low Plasticity soils below the bottom of slab elevation. This is not required under the footings. The footing bearing elevations are below the required 36" below the final exterior grade. It is required 10 feet beyond the building footprint in the Gym where it will be exposed to the exterior elements. In the cut areas around the walls of the Gym, this is not applicable. ; The required undercut volume is provided in Spec section 31 2000.	5	
112	1/8/2025	Detail E1/A1.05 that was issued in Addendum #2 shows waterproof membrane installed on the mud slab beneath the Structural slab supporting the Gym wood flooring system. There is no material specified for this condition. Is W.R Meadows, PRECON an acceptable product for this condition? See attached product data sheet.	1/9/2025	Acceptable	5	
113	1/8/2025	Sheet A1.01 shows a note 6 for fire retardant plywood in the unaccessible void space on the north end of the Gym. Section A12/A5.12 does not show plywood in this space. Please clarify.	1/9/2025	Note 6 on Sheet A1.01 is a typo, there is no Fire Retardant plywood at this location	5	
114	1/8/2025	The foundation plan calls for 2" mud slab and waterproofing membrane below Gym floor slab on grade. Specifications are only provided for waterproofing of below grade foundation walls and elevator pit. Please specify product to use under Gym slab.	1/9/2025	See RFI #87 response	5	
115	1/8/2025	Please clarify different terrazzo thicknesses shown in Specifications and on drawings	1/9/2025	Go with the thicker section.	5	
116	1/8/2025	Please clarify terrazzo edge termination at Main Level to Riser.	1/9/2025		5	
117	1/8/2025	There are plate glass mirrors (S14 and S15) that are CFCI shown on the Specialty Equipment Schedule. We located these mirrors in the Cheer and Weight Rooms. Are therre any mirrors that we have to provide in Cosmetology?	1/9/2025	Cosmetology workstations are provided with mirrors.	5	
118	1/8/2025	Section 01 4000 - 1.03.A.1 states "Mockups of the exterior envelope erected seperately from the building, but on site". Will independent field mockup be required. If so provide drawings and location.	1/9/2025	Yes. See Sheet G1.01 for mock-up wall drawing. Location to be determined by Contractor	5	
119	1/8/2025	The materials used between the floor slab and the bottom of the stair are confusing. Is there some reason we cannot use foam for this entire space?	1/9/2025	Geofaom can be used for the entrire space beneath the stair. See Structural details	5	
120	1/8/2025	What is the R-Value for the Roof?	1/9/2025	R-30. See Comcheck	5	
121	1/8/2025	Please provide a Specification for the oil storage tank shown in Room 112	1/9/2025	See revised Specifications included with Addendum #4	5	
122	1/8/2025	Please clarify exactly what you are asking for in Addendum #2 Attachment - Unit Prices #5 and #6. Are you just simply asking for trench rock and mass rock excavation unit prices?	1/9/2025	See revised Attachment A Unit Prices	5	
123	1/8/2025	Does Unit Price #14 for gypsum board ceilings only apply to flat ceilings or does it also apply to bulkheads/soffits?	1/9/2025	See revised Attachment A Unit Prices	5	
124	1/8/2025	Note 1 on S2.03 states roof slopes are achieved with tapered insulation. This will require the insulation to be as thick as 25" in some locations. The roof plan on A3.01 shows crickets. Which is required since this represents a significant cost difference.	1/9/2025	Crickets will be required to direct water to the through wall scuppers	5	
125	1/8/2025	Please provide thickness of roof coverboard	1/9/2025	5/8", see revised wall sections and details for UL Assemblies	5	
126	1/9/2025	Please provide response/clarification to the following: 1. Addendum 4 issued Specification Section 080671-Door Hardware Schedule. However, Section 00 0110 Table of Contents issued in Addendum 4 does not list Section 080671-Door Hardware Schedule, it lists Section 08 7100-Door Hardware. QUESTION: is the intent for Section 080671-Door Hardware Schedule issued in Addendum 4 to replace Section 08 7100-Door Hardware issued in Addendum 1 in the Specifications? 2. Reference Sheet A8.00-Finish Schedule-Floor Finish SC-1 is for a Sherwin Williams Product. Specification Section 03 3660, Part 2.02A calls for Densifier from Prosoco, Ameripolish, or Dayton Superior. Which product is to be used for Floor Finish SC-1? Do we follow plans or specs?	1/9/2025	1. Yes 2. Follow Specifications	5	

SIGN IN SHEET
Fort Payne Competition Gym & Classroom Addition
AHUN230009

GMC
Building Communities

MEETING DATE: 12/3/2024
MEETING LOCATION: Fort Payne City Schools
DISTRIBUTION DATE: TBD

ARCHITECT: GOODWYN|MILLS|CAWOOD
GMCNETWORK.COM

ORGANIZER: **ARCHITECT:**
GOODWYN MILLS CAWOOD, LLC.
117 Jefferson Street
Huntsville, AL 35801

FORT PAYNE COMPETITION GYM:
PRE-BID MEETING SIGN-IN SHEET

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FORT PAYNE COMPETITION GYM:
PRE-BID MEETING SIGN-IN SHEET

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UL Product iQ™

BXUV.D902 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. D902

February 21, 2019

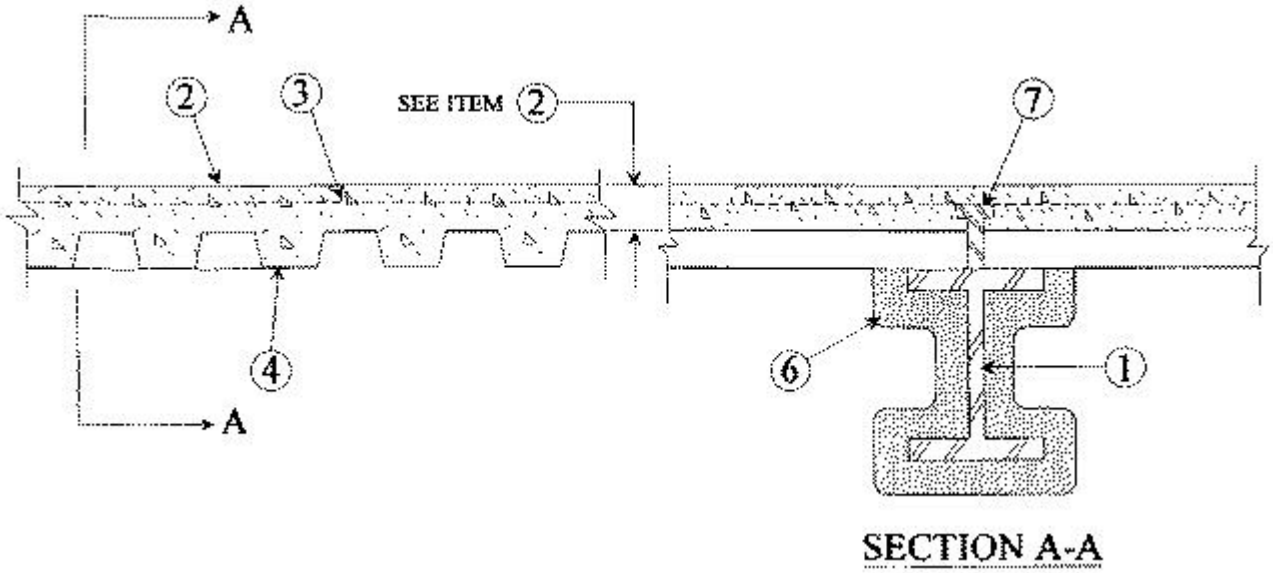
Restrained Assembly Ratings — 1, 1-1/2, 2 and 3 Hr.

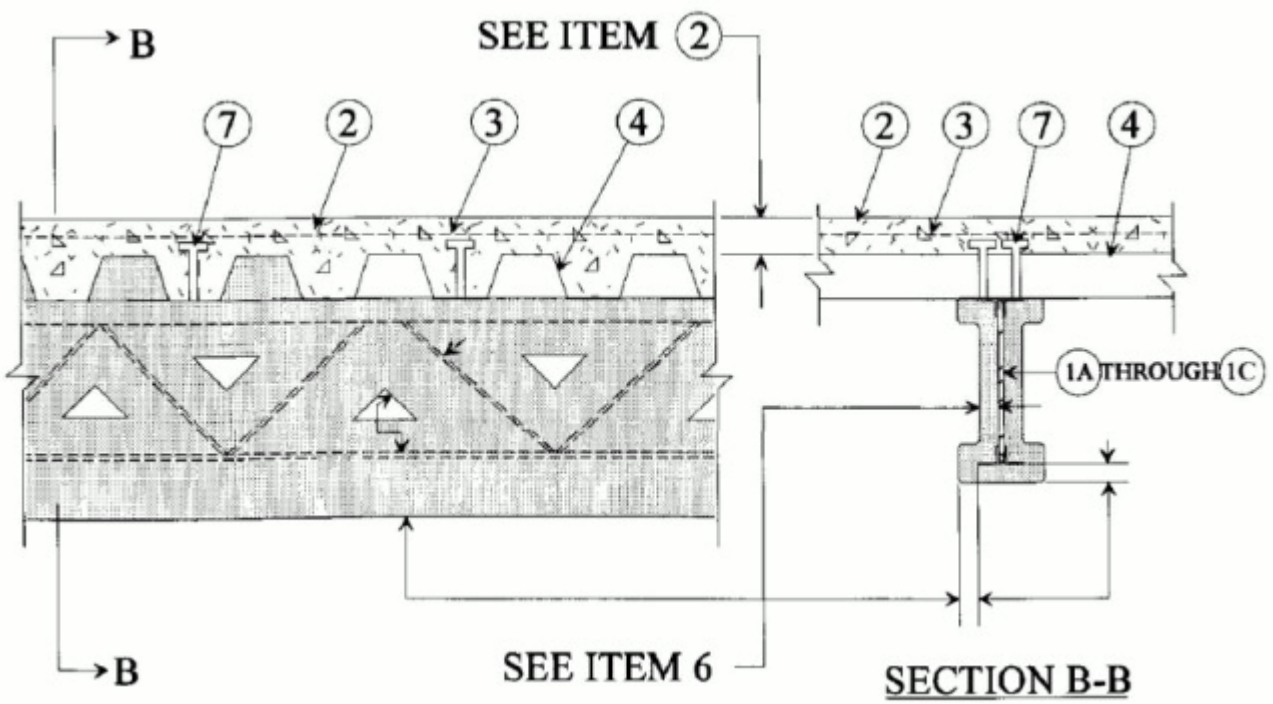
Unrestrained Assembly Ratings — 0, 1, 1-1/2, 2 or 3 Hr. (See Items 4 & 6)

Unrestrained Beam Ratings — 1, 1-1/2, 2 and 3 Hr.

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

*** Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.**





1. **Beam —** W8X28, W8x24 or W6x12, min size, see Items 6A through 6E.

1A. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 8k1 or min depth and weight shall be 8 in. and 4.9 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. The top chords shall consist of two angles measuring 1-1/4 by 1-1/4 by 0.127 in. thick. Bottom chords shall consist of two round bars measuring 0.566 in. in diam. or two angles measuring 1 by 1 by 0.125 in. thick. Bearing plates shall consist of two angles measuring 1-1/2 by 2 by 0.188 in. thick and 5-1/16 in. long. Web members shall consist of 0.565 in. diam bars.

1B. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 12k5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chords shall consist of two round bars measuring 0.675 in. in diam. or two angles measuring 1 by 1 by 0.125 in. thick. Bearing plates shall consist of two angles measuring 2 by 2 by 0.192 in. thick and shall be min 4-15/16 in long. The second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when non-composite joists are used.

1C. **Steel Joists —** (Not Shown) — As an alternate to Item 1 — Composite or non-composite min 12k5 or min depth and weight shall be 12 in. and 7.1 lb/ft respectively. May be uncoated or provided with a shop coat of paint. Designed per S.J.I. specifications for a max design stress of 30, 000 psi (30 ksi). Welded or bolted to end supports. Top chords shall consist of two angles measuring 1-1/2 by 1-1/2 by 0.156 in. thick. Bottom chord shall consist of two round bars measuring 0.675 in. in diam. or two nangles measuring 1 by 1 by 0.125 in. thick. The

second web member at each end shall consist of 0.654 in. diam round bar. All remaining web members, including the end web members, shall consist of 0.774 in. diam round bars. Bridging per S.J.I. specifications is required when non-composite joists are used.
Note: Additional beams or joists from the N series designs may be substituted for the listed beam (item 1) or joist (item 1A) respectively. When joists are substituted, the restrained rating of the joist must be equal to or greater than the restrained rating of the assembly. Additional beam and joist substitution requirements are in the front of the Fire Resistance Directory - III. FLOOR-CEILINGS AND ROOF-CEILING, item 7 -Steel Joist or IV. BEAMS.

2. **Normal Weight or Light Weight Concrete —** Normal weight concrete, carbonate or siliceous aggregate, 3500 psi compressive strength, vibrated. Lighteight concrete, expanded shale or slate aggregate by rotary-kiln method or expanded clay aggregate by rotary-kiln or sintered-grate method, or pelletized expanded blast furnace slag aggregate, 3000 psi compressive strength, vibrated, 4 to 7 per cent entrained air.

Restrained Assembly Rating Hr	Concrete (Type)	Concrete Unit Weight pcf	Concrete Thkns In.
1	Normal Weight	147-153	3-1/2
1-1/2	Normal Weight	147-153	4
2	Normal Weight	147-153	4-1/2
3	Normal Weight	147-153	5-1/4
1	Light Weight	107-113	2-1/2
1	Light Weight	107-120	2-5/8
1-1/2	Light Weight	107-113	3
2	Light Weight	107-113	3-1/4
2	Light Weight	107-116	3-1/4*
2	Light Weight	114-120	3-1/2
3	Light Weight	107-113	4-3/16
3	Light Weight	114-120	4-7/16

* With 2 and 3 in. deep steel floor units only.

3. **Welded Wire Fabric —** 6x6 - W1.4xW1.4.

3A. **Negative Reinforcement —** (Optional, Not Shown) Used in lieu of Item 3 and with Items 3B or 3C. For floor spans with concrete cast continuous over the supporting beams. Deformed bars designed to resist the support moments of the concrete slab in accordance with the latest ACI Building Code Specifications.

3B. **Fiber Reinforcement* —** (Not Shown) — Required with Item 3A. Engineered synthetic fibers added to concrete mix to control shrinkage cracks in concrete. Fibers added to concrete mix at rate of 1 lb of fiber for each cubic yard of concrete.
PROPEX OPERATING COMPANY L L C — Fibermesh 150 and Fibermesh 300.

3C. **Fiber Reinforcement* —** (Not Shown) — Required with Item 3A. Any fiber reinforcement bearing the UL Classification Marking for Fire Resistance, Classified for use in lieu of welded wire fabric.
See **Fiber Reinforcement** (CBXQ) Category for names of manufacturers.

4. **Steel Floor and Form Units* —** Composite 1-1/2, 1-5/8 , 2 or 3 in. deep galv units or 4-1/2 in. deep non-composite galv units. Fluted units may be phos/ptd. Min gauges are 22 MSG for fluted and 20/20 for cellular and partial cellular units. The following combinations of units may be used:
(1) All 24, 26, 28 or 36 in. wide cellular or partial cellular.

(2) All fluted.

(3) One or two 3 in. deep, 12 in. wide, 18/18 MSG min cellular alternating with 3 in. deep fluted or other cellular.

(4) Any blend of fluted and 24, 26, 28 or 36 in. wide cellular or partial cellular.

(5) Corrugated, nom 1-5/16 or 2 in. deep, 30 in. wide, 24 MSG min galv units with shear wires factory welded to deck corrugations. Welded to supports 12 in. OC through welding washers. For shear wire spacing of 8 in. or less the steel deck stress shall not exceed 20 KSI. For shear wire spacing greater than 8 in. OC but less than or equal to 12 in. OC steel deck stress shall not exceed 12 KSI.

ASC STEEL DECK, DIV OF ASC PROFILES L L C — 32 in. wide Types NH-32, NHN-32, NHF-32; 36 in. wide, Types BH-36, BHN-36, BHN-35-1/4, BHF-36, BHF-36A, 2WH-36, 2WHS-36, 2WHF-36, 2WHF-36A, 3WxH-36, 3WxHF-36, 3WxHF-36A, 3WH-36, 3WHF-36, 3WHF-36A, 3W-36, 3WF-36, DG3W-36, DG3WF-36. All units may be galvanized or Prime Shield. Non-cellular decks may be vented designated with a "V" suffix to the product name. Cellular deck top and bottom sections may be riveted together (designated with "Fr") vs. arc spot welded, "F"

CANAM STEEL CORP — 24 in. wide Type P-2432 composite or 36 in. wide Type P-3623, P-3606, P-3615 and 24 in wide Type P-2432 composite, Type P-3606 and P-3615 non-composite

CANAM STEEL CORP — 12 or 24 in. wide, Types 1-1/2, 2, or 3 in. LOK-Floor and LOK-Floor Cell; 36 in. wide, Types 2 or 3 in. LOK-Floor and LOK-Floor Cell; 24, 30 or 36 in. wide, Type 1-1/2 in. B-LOK and B-LOK Cell; 24 in. wide, Types N-LOK and N-LOK Cell

CENTRIA, A DIVISION OF NCI GROUP, INC — QL Types, 24 in. wide, 3 or 3 inverted, UKX, 21 or 21 inverted, 2 in. 99, 121, AKX, NKX, TKX; 24 or 30 in. wide GKX, GKXH, GKX-A; 36 in. wide 2 in. 99, AKX, WKX; 12 in. wide NKC, TKC; 12 in. wide non-composite Sec 12. Side joints of 99, 121, TKC, TKX, WKX may be welded together 60 in. OC. Side joints of 99, AKX, WKX, GKX, GKX-A, TKX may be fastened together with min 1 in. long No. 12x14 self-drilling, self-tapping steel screws 36 in. OC

CHIA TEH CONSTRUCTION MATERIAL CO LTD — 24 or 36 in. wide Mac-Lok 3; 24 in. wide CFD-3

DECK WEST INC — 36 in. wide Type B-DW, Inverted B-DW, BA-DW, Inverted BA-DW, 2-DW or 3-DW. Side joints of Type 2-DW and 3-DW may be fastened together with min 1 in. long No. 12 x 14 self-drilling, self-tapping steel screws 36 in. OC

DESIGN ASSISTANCE CONSTRUCTION SYSTEMS INC — 36 in. wide Type DACS1.5CD, or 24 in. wide Type DACS2.0CD, or DACS3.0CD

EPIC METALS CORP — 24 in. wide Types EC150, EC150 inverted, EC300, EC366, ECP150, ECP300, ECP366, ECA; 30 in. wide Types ECB150, ECBR150; 36 in. wide Types EC156, EC266, ECP266

KAM INDUSTRIES LTD, DBA CORDECK — 24 in. wide, Types 2 or 3 in. WDR

MARLYN STEEL DECKS INC — Type 1.5 CF, 2.0 CF or 3.0 CF

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types Mac-Lok 2, Mac-Lok 3; 24 in. wide Types B2C, B2FC, NC, NFC; 30 in. wide, Type B3C; 12 in. wide Mac-Way Cellular 45 MDW, 2-633 MTWA, 3-633 MTWA+. 30 in. wide, Mac-Cor Types 1 and 2

NEW MILLENNIUM BUILDING SYSTEMS L L C — 24 or 36 in. wide Types 2.0CD, 3.0CD, 2.0CFD, 3.0CFD, 3.0CFDES; 24, 30 or 36 in. wide Types 1.5CD, 1.5CDI, 1.5CDR, 1.5CFD. Fluted units may be phos/painted or galvanized.

ROOF DECK INC — 36 in. wide Types LOK-1-1/2, LOK-1-1/2R; 24 in. wide Types LOK-2, LOK-3

VALLEY JOIST, SUB OF EBSCO INDUSTRIES INC — 24 or 36 in. wide Types WVC 1-1/2 or WVC 2

VERCO DECKING INC - A NUCOR CO — FORMLOK™ deck types PLB, B, BR, PLN3, N3, PLN, N, PLW2, W2, PLW3, W3. Units are min 24 in. wide and may be galvanized, phos./ptd., or mill finish. Units may be cellular or acoustical cellular, with the suffix "CD" or "CD-AC" added to the product name, respectively. All non-cellular deck may be vented or non-vented. 12 in. wide PLW2, W2, PLW3 or W3 units may be blended with 24 or 36 in. wide PLW2, W2, PLW3 or W3 units, respectively; or Types PLN3-CD, N3-CD, PLN3, N3.

VULCRAFT, DIV OF NUCOR CORP — 24, 30 or 36 in. wide Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5VLP, 1.5 VLR, 1.5PLVLP; 24 or 36 in. wide Types 1.5VLPA, 1.5PLVLPA, 2VLI, 2.0PLVLI, 2VLJ, 3VLI, 3.0PLVLI, 3VLJ, 2VLP, 2.0PLVLP, 3VLP, 3.0PLVLP, 2VLPA, 2.0PLVLPA, 3VLPA, 3.0PLVLPA. Types 1.5VL, 1.5VLI, 1.5PLVLI, 1.5 VLR, 1.5VLPA, 1.5PLVLPA, 2VLI, 2.0PLVLI, 2VLJ, 3VLI, 3.0PLVLI, 3VLJ units may be phos/ptd. 24 or 36 in. wide Types 2VLJ, 3VLJ units ++ may be used for max 2 hr Restrained Assembly Rating. 36 in. wide Types 1.5 SB, 1.5 SBR; 24 or 36 in wide Types 2.0 SB, 3.0 SB, 36 in. wide Type High Strength 1.5 SBI, 36 in. wide Type High Strength 1.5 SBN; Units may be phos/ptd

Spacing of welds attaching units to supports shall be 12 in. OC for 12, 24, 36 in. wide units, four welds per sheet for 30 in. wide units. 6 in. OC for 18 in. wide and Sec. 12 units. Unless specified otherwise for specific units types, adjacent units button-punched or welded together 36 in. OC along side joints. For **3 Hr Rating**, units with overlapping type side joints welded together 24 in. OC max.

When a superimposed load of 250 PSF is desired the spacing of welds or button-punches shall not exceed 24 in. OC along side joints.

+ 12 in. wide, 1-1/2 in. deep Mac-Way units may be blended with 24 in. wide B2C or 30 in wide B3C units in a blend of one cell to one or more fluted units. 12 in. wide, 2 in. deep Mac-Way units may be blended with 24 or 36 in. wide Mac-Lock units in a blend of one cell to one or more fluted units. 12 in. wide, 3 in. deep Mac-Way units may be blended with 24 or 36 in. wide Mac-Lock 3 units in a blend of one cell to one or more fluted units. The side edge of the fluted units is placed on the top of the side edge of the Mac-Way unit and the two are welded together with welding washers spaced a max. of 32 in. OC for Mac-Lock 2 or 3 units and a max of 24 in. OC for the B2C or B3C units.

++ Side joints of Types 2VLJ or 3VLJ units may be fastened together with No. 8-3/4 in. long self-drilling Tek screws driven diagonally from the top side through the joint of the units at 36 in. O. C. max.

Alternate Construction — Non-composite units of the same type listed above may be used provided allowable loading is calculated on the basis of non-composite design.

The Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) for a max 3 Hr and is limited to the following units and limitations:

(a) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 22 MSG or thicker fluted with clear spans not more than 7 ft, 8 in.

(b) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 20 MSG or thicker fluted with clear spans not more than 8 ft, 8 in.

(c) 1-1/2 and 2 in. deep, 24 or 36 in. wide, 16 MSG or thicker fluted and 18/18 MSG or thicker cellular with clear spans not more than 9 ft, 11 in.

(d) 3 in. deep, 36 in. wide, 18 MSG or thicker fluted and 24 in. wide, 20/18 MSG or thicker cellular with clear spans not more than 13 ft, 2 in.
For assemblies utilizing 3-1/4 in. light weight concrete topping with a max Restrained Assembly Rating of 2 Hr, the Unrestrained Assembly Rating is equal to the Unrestrained Beam Rating (See Item 6) and is limited to the following floor units and spans:

(a) 1-1/2, 2 and 3 in. deep, 24 or 36 in. wide, 22 MSG fluted and 20/20 MSG cellular with clear spans not more than 9 ft, 6 in.

(b) 2 and 3 in. deep, 24 or 36 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 10 ft, 0 in.

(c) 3 in. deep, 24 in. wide, 20 MSG fluted and 20/20 MSG cellular with clear spans not more than 13 ft, 2 in.

4A. **Steel Floor and Form Units* —** As an alternate to Item 4, for use only when top of steel beam (Item 1) is filled solid with concrete for the full width of bearing from top of steel beam to top of concrete (Item 2):
BAILEY METAL PRODUCTS LTD — Type COMSLAB™ 210 and COMSLAB™ 225, Steel End Closure Flashing

5. **Joint Cover —** (Use with fluted units optional — Not Shown) — 2 in. wide cloth adhesive tape applied following the contour of the units.

6. **Spray-Applied Fire Resistive Materials* —** Applied by spraying with water to the final thicknesses shown below. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular of blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Beam surfaces must be clean and free of dirt, loose scale, and oil. Min average density of 13 pcf with min. individual density of 11 pcf for Types II, II HS, or DC/F. Min average and min individual densities of 22 pcf and 19 pcf, respectively, for type HP. For method of density determination, refer to Design Information Section. The thickness of the Spray-Applied Fire Resistive Materials on the Structural Members (Item 1, 1A, or 1B) shall be as follows:

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Concrete Type	Min Thkns Spray Applied Resistive Mtl, In

			W8x28 When Deck Is All Fluted	W8x28 When Deck Is Blend or All Cellular	Joist Item 1A When Deck Is Fluted Cellular or Blend	Joist Item 1B When Deck Is Fluted Cellular or Blend
1	1	NW	3/8,5/8*	3/8,11/16*	1+	—
1-1/2	1	NW	3/8,5/8*	3/8,11/16*	1-9/16	—
2	1	NW	3/8,5/8*	3/8,11/16*	2-1/16	—
2	2	NW	3/4	13/16	2-1/16	—
2	3	NW	1-3/16	1-5/16	—	3-1/4
3	1-1/2	NW	1/2	1/2	—	3-1/4
3	2	NW	3/4	13/16	—	3-1/4
3	3	NW	1-3/16	1-5/16	—	3-1/4
1	1	LW	3/8,5/8*	7/16,11/16*	1-1/8+	—
1-1/2	1	LW	3/8,5/8*	7/16,11/16*	1-3/4	—
2	1	LW	3/8,5/8*	7/16,11/16*	2-1/4	—
2	2	LW	1	1	2-1/4	—
2	3	LW	1-9/16	1-5/8	—	3-1/4
3	1-1/2	LW	5/8	11/16	—	3-1/4
3	2	LW	1	1	—	3-1/4
3	3	LW	1-9/16	1-5/8	—	3-1/4

* This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.

** This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.

+ When bottom chords consist of 1 by 1 by 0.125 in. thick steel angles, the thickness of spray-applied fire resistive material shall be increased by 1/4 in. on the bottom chord only.

ISOLATEK INTERNATIONAL — Type D-C/F, HP, II or Type II HS. Investigated for exterior use. Type EBS or Type X adhesive/surface sealer optional.

6A. **Spray-Applied Fire Resistive Materials* —** Alternate to Item 6. See table below for appropriate thicknesses. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged. Prepared by mixing with water and spray-applied in one or more coats to beam surfaces which must be clean and free of dirt, loose scale and oil. Min average density of 17.5 pcf with min individual value of 17.0 pcf. For method of density determination, see Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Min Thkns Applied Resistive Mtl, In	
		W8x28 When Deck Is All Fluted	W8x28 When Deck Is Blend or All Cellular
1, 1-1/2, 2	1	5/16, 7/16*	5/16, 7/16*
2	2	11/16	13/16

2	3	1-1/16	1-5/16
3	1-1/2	1/2	9/16
3	2	11/16	13/16
3	3	1-1/16	1-5/16

* This thickness applies when optional Items 12, 13 are used over 3-1/4 in. light weight concrete topping.

ISOLATEK INTERNATIONAL — Type 280

6B. **Spray-Applied Fire Resistive Materials* —** Alternate to Items 6 and 6A. Prepared by mixing with water. Spray-applied in one or more coats to beam surfaces to a min final thickness as shown in the tables below. Beam surfaces must be clean and free of dirt, loose scale and oil. When fluted steel deck is used and the fire protection thickness selected is based on all fluted deck, the area between the steel deck and the top flange of the steel beam shall be filled. When fluted steel deck is used and the steel beam is sprayed with the thicknesses applicable to cellular or blended units, the area between the steel deck and the top flange of the steel beam shall be plugged.
Min average and min individual density of 15 pcf and 14 pcf respectively for Types 300, 300AC, 300 ES, 300 HS, 300 N, 3000, 3000ES, and SB. For Types 400, 400 AC and 400 ES min average and min individual density of 22 pcf and 19 pcf respectively. Min avg density of 44 pcf with min ind value of 40 pcf for Types M-II and TG. Min avg density of 47 pcf, with min individual value of 43 pcf for Type M-II/P. The thickness of the material on the Structural Members (Item 1 and 1C) shall be as follows:

		Min Thkns Spray Applied Resistive Mtl, In		
Restrained Assembly Rating Hr	**Unrestrained Beam Rating Hr**	**W8x28 When Deck Is All Fluted**	**W8x28 When Deck Is Blend or All Cellular**	**Joist (Item 1C) When Deck Is Fluted Cellular or Blend**
1	1	5/16, 7/16*	5/16, 7/16*	9/16+
1-1/2	1	5/16, 7/16*	5/16, 7/16*	1
2	1	5/16, 7/16*	5/16, 7/16*	1-3/8
2	2	11/16	13/16	1-3/8
2	3	1-1/16	1-5/16	2-1/4
3	1-1/2	1/2	9/16	2-1/4
3	2	11/16	13/16	2-1/4
3	3	1-1/16	1-5/16	2-1/4

* This thickness applies when optional Item 12 or 13 are used over 3-1/4 in. light weight concrete topping.

+ When bottom chords consist of 1 in. by 1 in. by 0.125 in. thick steel angles, the thickness of spray-applied fire resistive material shall be increased by 1/4 in. on the bottom chord only.

BERLIN CO LTD — Types 300, 300ES, 300N, SB, or 400; Type M-II, TG and M-II/P

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, 400, or 400AC; Type M-II, TG and M-II/P

ISOLATEK INTERNATIONAL — Types 300, 300AC 300ES, 300HS, 300N, SB, 400, 400AC, 400ES, 3000 or 3000ES; Type M-II, TG and M-II/P

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N, 400, or SB; Type M-II, TG and M-II/P

6C. **Mastic and Intumescent Coatings* —** As an alternate to Items 6 through 6B. For use with fluted steel floor and form units only. Min. size W8x24 or W6x12 beams shall be primed with a phenolic modified alkyd primer, a metal alkyd primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. Flutes above beam to be completely filled with minimum 6 pcf mineral wool insulation, or the top flange of the beam to be protected with the same thickness of coating as required on the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Beam Size	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
53	1.34	W8x24	1	2
95	2.41	W8x24	1-1/2	3
73	1.83	W6x12	1	2
123	3.10	W6x12	1-1/2	3

BERLIN CO LTD — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6E

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB4, Investigated for Exterior Use with top coat as described in Item 6E

NEWKEM PRODUCTS CORP — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6E

6D. **Mastic and Intumescent Coatings* —** As an alternate to Items 6 through 6C. For use with normal weight concrete. Min. size W8x28 beams shall be primed with a phenolic modified alkyd primer a metal alkyd primer, an acrylic primer or an epoxy primer at a nominal thickness of 2 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the min dry thickness as shown in the table below. The thickness shown below includes the primer thickness. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness at a min distance of 1 in. (25 mm) inward from the flange tip on both sides of the beam. Mineral wool insulation optional above top surface of the beam.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Steel Floor Units	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
103	2.62	Fluted or Cellular	1-1/2	2
179	4.55	Cellular	1-1/2	3
341	8.67	Cellular	2	3

BERLIN CO LTD — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB 4, Investigated for Exterior Use with top coat as described in Item 6E

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type WB 3, Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB 4, Investigated for Exterior Use with top coat as described in Item 6E

ISOLATEK INTERNATIONAL — Type SprayFilm-WB 3 and Type WB 3. Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Interior General Purpose. Type SprayFilm-WB 4 and Type WB 4, Investigated for Exterior Use with top coat as described in Item 6E

NEWKEM PRODUCTS CORP — Type WB 3. Investigated for Interior General Purpose. Type WB 4, Investigated for Interior General Purpose. Type WB4, Investigated for Exterior Use with top coat as described in Item 6E

6E. **Top Coat —** Type SprayFilm — TOPSEAL and Type TOPSEAL required for Exterior Use, applied at a minimum dry thickness of 14 mils (0.34 mm) over the intumescent material.

See Classification information in the **Mastic and Intumescent Coating** (CDWZ) category, Isolatek International, for mixing requirements.

6F. **Mastic and Intumescent Coatings* —** As an alternate to Items 6 through 6D. For use with normal weight or light weight concrete and fluted steel floor and form units only. Min size W8x24 beams shall be primed with a phenolic modified alkyd primer at a thickness of 2 mils or a epoxy primer at a nominal thickness of 1 mil. Coating spray or brush applied in accordance with the manufacturer's instructions at the thicknesses shown below. The thickness includes the thickness of primer. The top surface of the top flange where fluted units are used must be protected with the coating material at the same min dry thickness or filled with nominal 4 pcf mineral wool.

Minimum Dry Thickness mils	Minimum Dry Thickness mm	Beam Size	Unrestrained Beam Rating Hr	Restrained Assembly Rating Hr
35	0.88	W8x24	1	2
66	1.68	W8x24	1-1/2	3

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type WB-5. Investigated for Interior General Purpose

ISOLATEK INTERNATIONAL — Type WB-5. Investigated for Interior General Purpose

7. **Shear Connector Studs —** (Optional) — Studs, 3/4 in. diam by 3 in. long, for 1-1/2 in. deep form units to 5-1/4 in. long for 3 in. deep form units, headed type or equivalent per AISC specifications. Welded to the top flange of the beam through the steel form units.

8. **Lath Hanger —** (Optional, Not Shown) For use in caged beams with Items 6, 6A or 6B Galv steel 6 SWG min diam spaced 27 in. O. C.

9. **Clips —** (Optional, Not Shown) For use in caged beams with Items 6, 6A or 6B No. 24 MSG spring steel pushed on to top and bottom flanges of beam spaced 6 in. O. C. max.

10. **Metal Lath —** (Optional, Not Shown) — For use in caged beams with Items 6, 6A or 6B 3/8 in. diamond mesh or rib lath, 3.4 lbs per sq yd expanded steel attached to beam with clips spaced 6 in. OC max; or tied to lath hangers with 18 SWG galv steel wire spaced 6 in. OC max.

11. **Electrical Inserts* —** (Not Shown) — Classified as "Outlet Boxes and Fittings Classified for Fire Resistance".

12. **Mineral and Fiberboards* —** (Optional, Not Shown) — Applied over concrete floor with no restriction on board thickness. When mineral and fiber boards are used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See **Mineral and Fiber Board** (CERZ) category for names of manufacturers.

13. **Foamed Plastic* —** (Optional, Not Shown) — Consisting of polyisocyanurate or urethane roof insulations. Applied over concrete floor with no restrictions on thickness. When polyisocyanurate or urethane insulation is used, the unrestrained beam rating shall be increased by a minimum of 1/2 hr.

See **Foamed Plastic** (CCVW) for list of manufacturers.

14. **Insulating Concrete —** (Optional, Not Shown) — Various types of insulating concrete prepared and applied as follows:
A. Vermiculite Concrete - Blend 6 to 8 cu ft of **Vermiculite Aggregate*** to 94 lb Portland cement and air entraining agent. Min thickness of 2 in. as measured to the top surface of the structural concrete or foamed plastic (Item 15) when it is used. See **Vermiculite Aggregate** (CJZZ) category for names of Classified companies.

B. Cellular **Concrete-Roof Topping Mixture*** - Concentrate mixed with water and Portland cement per manufacturer's specifications. Min. thickness of 2-in. as measured to the top surface of the structural concrete or foamed plastic (Item 15 and 15A) when used. Cast dry density and 28-day min compressive strength of 190 psi as determined with ASTM C495-66.

AERIX INDUSTRIES — Cast dry density of 37 (+ or -) 3.0 pcf

CELCORE INC — Type Celcore with cast dry density of 31 (+ or - 3.0) pcf or Type Celcore MF with cast dry density of 29 (+ or - 3.0) pcf

ELASTIZELL CORP OF AMERICA — Type II, with a cast dry density of 39 (+ or - 3.0) pcf

SIPLAST INC — Mix #1, Cast dry density of 32 (+ or -) 3 pcf

SIPLAST INC — Mix #2, Cast dry density of 36 (+ or -) 3 pcf

C. Cellular **Concrete-Roof Topping Mixture*** - Foam concentrate mixed with water, Portland cement and UL Classified Vermiculite Aggregate per manufacture's application instructions. Cast dry density of 33 (+ or -) 3 pcf and 28 day compressive strength of min 250 psi as determined in accordance with ASTM C495-86.

AERIX INDUSTRIES — Mix #3

ELASTIZELL CORP OF AMERICA — Type II. Mix #1 of cast dry density 39 (+ or -) 3.0 pcf, Mix #2 of cast dry density 40 (+ or -) 3.0 pcf, Mix #3 of cast dry density 47 (+ or -) 3.0 pcf

SIPLAST INC — Mix #3

D. Perlite Concrete - 6 cu ft of **Perlite Aggregate*** to 94 lb of Portland Cement and 1-1/2 pt air entraining agent. Min thickness 2 in. as measured to the top surface of structural concrete or foamed plastic (Item 15A) when it is used.

See **Perlite Aggregate** (CFFX) in Fire Resistance Directory for names of Classified companies.

15. **Foamed Plastic* —** (Optional, Not Shown) — For use only with vermiculite (Item 14A) or cellular (Item 14B) concretes-Rigid polystyrene foamed plastic insulation having slots and/or holes sandwiched between vermiculite concrete slurry which is applied to the normal or light weight concrete surface and vermiculite concrete topping (Item 14A).

See **Foamed Plastic*** (BRYX) category in Building Materials Directory or **Foamed Plastic*** (CCVW) Category in Fire Resistance Directory for list of Classified companies.

15A. **Foamed Plastic* —** (Not Shown) — For use only with cellular or perlite concrete. Nominal 24 by 48 in. polystyrene foamed plastic insulation boards having a density of 1.0 (+ or - 0.1) pcf, encapsulated within concrete topping. Each insulation board shall contain six nominal 3 in. diameter holes oriented in two rows of three holes each with the holes spaced 12 in. OC transversely and 16 in. OC longitudinally.

See **Foamed Plastic*** (BRYX) category in Building Materials Directory or Foamed Plastic* (CCYW) category in Fire Resistance Directory for list of Classified companies.

16. **Roof Covering Materials* —** (Optional, Not Shown) — Consisting of materials compatible with insulations described herein which provide Class A, B or C coverings.

See Built-Up Roof Covering Materials in Building Materials Directory.

17. **Insulated Concrete —** (Optional, Not Shown) — various types of insulated concrete prepared and applied in the thickness indicated.

A. **Vermiculite Concrete —** Mix consists of 6 cu ft of Vermiculite Aggregate*, 94 lbs of Portland cement and 6 ox of air entraining agent. Thickness to be 2 in min from the top plane of steel roof deck.

ELASTIZELL CORP OF AMERICA — Types MS16-U, MSV 200.

B. **Perlite Concrete —** Mix consists of 6.2 cu ft **Perlite Aggregate*** to 94 lbs of Portland cement and 1-1/2 pt air entraining agent. Compressive strength 80 psi min.

See **Perlite Aggregate** (CFFX) category for names of Classified companies.

18. **Wall and Partition Facings and Accessories —** (Optional, Not Shown) Sound barrier for use with items 19 and 20: Acoustic Sleeper Pads stapled or adhered to the underside of the subflooring panels spaced 24 in. OC.

STC ARCHITECTURAL PRODUCTS L L C DBA STC SOUND CONTROL — Acoustic Sleeper

19. **Structural Cement Fiber Units* —** (Optional, Not Shown) - (For use with item 18) - Min 3/4 in. thick tongue and groove non-combustible structural cement fiber board loosely laid over concrete.

ECTEK INTERNATIONAL INC — Armoroc Panel

UNITED STATES GYPSUM CO — USG Structural Panel

EASI BUILDING PRODUCTS, INC. — Versaroc

20. **Building Units* —** (Optional, Not Shown) - (For use with item 18) - Panels loosely laid over concrete.
DRAGONBOARD USA L L C — Type DragonBoard, DragonBoard Flooring

EXTREMEGREEN BUILDING PRODUCTS LLC — Type 3/4 in. Shiplap Edge Extremegreen™ Board, 5/8 in. Tapered Edge Extremegreen™ Board, 1/2 in. Tapered Edge Extremegreen™ Board.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-02-21

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UL Product iQ™

BXUV.J957 - FIRE-RESISTANCE RATINGS - ANSI/UL 263

Design/System/Construction/Assembly Usage Disclaimer

- Authorities Having Jurisdiction should be consulted in all cases as to the particular requirements covering the installation and use of UL Certified products, equipment, system, devices, and materials.
- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States
Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
Design Criteria and Allowable Variances

Design No. J957

January 02, 2019

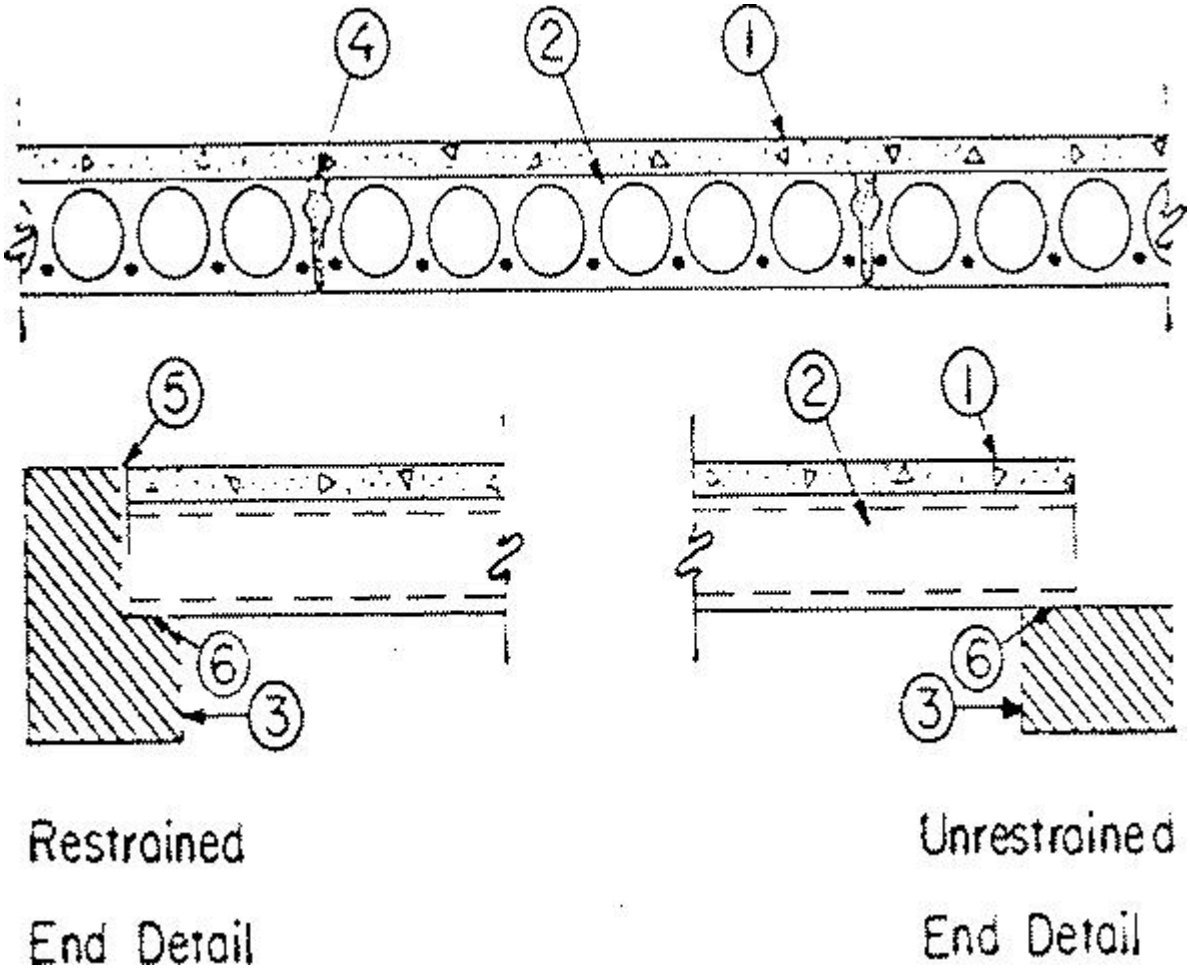
Restrained Assembly Ratings — 2 and 3 Hr. (See Item 1)

Unrestrained Assembly Rating — 1 and 2 Hr.

Unrestrained Beam Rating — 1, 1-1/2, 2, 3 (See Items 8, 8A)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. **Concrete Topping —** 3000 psi compressive strength, 110 to 153 pcf unit weight. Normal weight aggregate.

Rating Hr	Min Thkns In.
2	0
3	1

1A. **Floor Topping Mixture* —** Alternate to Item 1 - Min 1/2 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill 2010, Firm-Fill 3310, Firm-Fill 4010, Gyp-Span Radiant

Floor Mat Materials* — (Optional) — Floor mat material nom 1/8 in. (3 mm) thick loose laid over the precast concrete unit. Floor topping thickness shall be a min of 3/4 in. (19 mm).
HACKER INDUSTRIES INC — FIRM-FILL SCM 125

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 1/4 in. (6 mm) thick loose laid over the precast concrete unit. Floor topping thickness shall be a min of 1 in. (25 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 250

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/8 in. (10 mm) thick loose laid over the precast concrete unit. Floor topping thickness shall be a min of 1-1/4 in. (32 mm)

HACKER INDUSTRIES INC — FIRM-FILL SCM 400

Alternate Floor Mat Materials - (Optional) — Floor mat material nom 3/4 in. (19 mm) thick loose laid over the precast concrete unit. Floor topping thickness shall be a min of 1-1/2 in. (38 mm).

HACKER INDUSTRIES INC — Type FIRM-FILL SCM 750

Metal Lath (Optional) — For use with 3/8 in. (10 mm), or greater, floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1 in. (25 mm) over the floor mat.

1B. **Floor Topping Mixture* —** Alternate to Items 1 and 1A - Min 3/4 in. thickness of floor topping mixture having a min compressive strength of 1100 psi. Mixture shall consist of 6.8 gal of water to 80 lbs of floor topping mixture to 1.9 cu ft of sand.
HACKER INDUSTRIES INC — Firm-Fill Gypsum Concrete, Firm-Fill High Strength, Gyp-Span Radiant

Floor Mat Materials* — (Optional) — Floor mat material nom 5/64 in. (2 mm) thick adhered to precast concrete unit with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of floor-topping mixture. Floor topping thickness a min 1 in. over the floor mat.

ECORE INTERNATIONAL INC — Type QTscu 4002

HACKER INDUSTRIES INC — Type Hacker Sound-Mat

A**lternate Floor Mat Materials — (Optional)** — Floor mat material nom 1/4 in. (6 mm) thick adhered to precast concrete unit with Hacker Floor Primer. Primer to be applied to the surface of the mat prior to the placement of a min 1-1/4 in. (32 mm) of floor-topping mixture.

ECORE INTERNATIONAL INC — Type QTrbm 3006-3

HACKER INDUSTRIES INC — Type Hacker Sound-Mat II

Metal Lath (Optional) — For use with 3/8 in. (10 mm) floor mat materials, 3/8 in. expanded steel diamond mesh, 3.4 lbs/sq yd placed over the floor mat material. Hacker Floor Primer to be applied prior to the placement of the metal lath. When metal lath is used, floor topping thickness a nom 1-1/4 in. over the floor mat.

1C. **Finish Flooring — Floor Topping Mixture* —** Min. 3/4 in. thickness of floor topping mixture having a minimum compressive strength of 1500 psi. Refer to manufacturer's instructions accompanying the material for specific mix design.
MAXXON CORP — Type D-C, GC, GC 2000, L-R, T-F, CT, SS

RAPID FLOOR SYSTEMS — Type RF, RFP, RFU, Ortecrete.

Floor Mat Materials* — (Optional)—Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
MAXXON CORP — Type Acousti-Mat 1/8, Acousti-Mat 1/4, Acousti-Mat 1/4 Premium, Acousti-Mat 3/8, Acousti-Mat 3/8 Premium, Acousti-Mat 3/4, Acousti-Mat 3/4 Premium, Acousti-Top.

Floor Mat Reinforcement — (Optional) - Refer to manufacturer's instructions regarding minimum thickness of floor topping for use with floor mat reinforcement.
Metal Lath (Optional) — 3/8 in. expanded galvanized steel diamond mesh, 3.4 lbs/sq yd loose laid over the floor mat material.

Fiber Glass Reinforcement - (Optional, Not Shown) - 0.015 in. thick PVC coated non-woven fiberglass mesh, 0.368 lbs/sq yd loose laid over the floor mat material.

1D. **Alternate Floor Topping Mixture* —** Compressive strength to be 1800 psi min. Min. thickness to be 3/4 in. Refer to manufacturer's instructions accompanying the material for specific mix design.
UNITED STATES GYPSUM CO — Types LRK, HSLRK, CSD

USG MEXICO S A DE C V — Types LRK, HSLRK, CSD

Floor Mat Materials* — (Optional) - Floor mat material loose laid over the subfloor. Refer to manufacturer's instructions regarding the minimum thickness of floor topping over each floor mat material.
UNITED STATES GYPSUM CO — Types SAM, LEVELROCK® Brand Sound Reduction Board, LEVELROCK® Brand Floor Underlayment SRM-25.

Alternate Floor Mat Materials* — (Optional) - Floor mat material nom 3/8 in. thick loose laid over the subfloor. Floor topping thickness

a min 3/4 in. over the floor mat.
GRASSWORX L L C — Type SC50.

1E. **Alternate Floor Topping Mixture* —** Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.
ACG MATERIALS — Accu-Crete types NexGen, Green, Prime, B, M, and PrePour, AccuRadiant, AccuLevel types G40, SD30, and G50.

Alternate Floor Mat Material* - (Optional) - Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.

ACG MATERIALS — AccuQuiet types P80, C40, D13, D-18, D25, DX38, EM.125, EM.125S, EM.250, EM.250S, EM.375, EM.375S, EM.750, and EM.750S.

1F. **Alternate Floor Topping Mixture* —** Compressive strength to be 1000 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.
FORMULATED MATERIALS LLC — Types FR-25, FR-30, SiteMix, and SiteMix SL.

Alternate Floor Mat Material* — (Optional) — Floor mat material nominal 2 - 9.5 mm thick loose laid over the subfloor. Floor topping shall be a min of 3/4 in.
FORMULATED MATERIALS LLC — Types M1, M2, M3, R1, and R2.

1G. **Alternate Floor Topping Mixture* —** Compressive strength to be 2100 psi min. Thickness to be 3/4 in. min. Refer to manufacturer's instructions accompanying the material for specific mix design.

2. **Precast Concrete Units* —** Nom 8, 10, 12 or 14 in. thick units. Normal weight aggregate. Cross section similar to the above illustration.
BOCCELLA PRECAST L L C

HOLLOWCORE INC

3. **End Details —** Restrained and unrestrained.

4. **Joint —** Clearance between slabs at bottom, full length, 1/16 in. min, 5/16 in. max, grouted full length with sand-cement grout (3500 psi min compressive strength) to a max depth of 4-1/2 in. This depth may be maintained by placing a compressible material in the bottom of the joint before applying grout.
Note: A 3/4 in. lateral expansion joint to be provided the full length and depth of the slabs every 14 ft. Expansion should be obtained with noncombustible, compressible material, for example, 24 sheets of 1/16 in. thick ceramic fiber paper (total thickness equals 1-1/2 in.).

5. **End Clearance —** Clearance for expansion at each end of slabs shall be equal to (3/16 plus or minus 1/16 in.) L/17 in., where "L" is equal to length of span in feet.

6. **Min Bearing —** 1-1/2 in.

7. **Beam —** (Optional, Not Shown) — W8x28 min size. The Precast Concrete Units shall be welded to the top flange of the beam by means of weld plates (spaced 48 in. OC max) incorporated in the Units.

8. **Spray-Applied Fire Resistive Materials* —** (Not Shown) — Applied by mixing with water and spraying in one or more coats the final thicknesses as shown in the table below, on the steel beam following the beam contour. Surfaces of the beam shall be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G, Z-106/HY. Min avg and min ind density of 19/18 pcf respectively for Type 7GP and 7HD. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Thkns on Beam In.
2	1	1	7/16

2	1-1/2	1-1/2	3/4
2	2	2	1
3	1-1/2	1-1/2	3/4
3	2	2	1
3	2	3	1-5/16

ARABIAN VERMICULITE INDUSTRIES — Types MK-10 HB, MK-10 HB Extended Set.

GCP KOREA INC — Types MK-6/CBF, MK-6/ED, MK-6/HY, MK-6/HB, MK-6s, MK-10 HB, MK-10 HB Extended Set, Monokote Acoustic 1, Monokote Acoustic 5, Z-106, Z-106/G.

PYROK INC — Type LD.

SOUTHWEST FIREPROOFING PRODUCTS CO — Types 4, 5, 5EF, 5GP, 5MD, 7GP, 7HD, 8EF, 8GP, 8MD, 9EF, 9GP, 9MD.

GCP APPLIED TECHNOLOGIES INC — Types MK-6/HY, MK-6/HB, MK-6s, MK-10 HB, MK-10 HB Extended Set, Monokote Acoustic 1, Monokote Acoustic 5, RG , Z-106, Z-106/G, Z-106/HY.

8A. **Spray-Applied Fire Resistive Materials* —** (Not Shown) - As an alternate to Item 8 — Applied by spraying with water to the final thickness as shown in the table below, to the steel beam following the beam contour. Surfaces of the beam shall be clean and free of dirt, loose scale and oil. Min avg and min ind density of 13 and 11 pcf, respectively for Type D-C/F, II, or II HS. Min avg and min ind densities of 22 and 19 pcf, respectively, for Type HP. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Thkns on Beam In.
2	1	1	3/8
2	1-1/2	1-1/2	11/16
2	2	2	1
3	1-1/2	1-1/2	11/16
3	2	2	1
3	2	3	1-5/8

ISOLATEK INTERNATIONAL — Type D-C/F, HP, II, or II HS.

8B. **Spray-Applied Fire Resistive Materials* —** (Not Shown) - As an alternate to Item 8 and 8A — Applied by spraying with water to the final thickness as shown in the table below, to the steel beam following the beam contour. Surfaces of the beam shall be clear and free of dirt, loose scale and oil. Minimum average and minimum individual density of 15 and 14 pcf, respectively, for Types 300, 300AC, 300ES, 300HS, 300N, 3000, 3000ES and SB. For Types 400AC and 400ES min average and min individual density of 22 and 19 pcf, respectively. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating, Hr	Unrestrained Assembly Rating, Hr	Unrestrained Beam Rating, Hr	Min Thkns On Beam In.
2	1	1	5/16
2	1-1/2	1-1/2	1/2

2	2	2	11/16
3	1-1/2	1-1/2	1/2
3	2	2	11/16
3	2	3	1-1/16

BERLIN CO LTD — Types 300, 300ES, 300N or SB.

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Types 300, 300AC, or 400AC.

ISOLATEK INTERNATIONAL — Types 300, 300AC, 300ES, 300HS, 300N, SB, 400AC, 400ES, 3000 or 3000ES.

NEWKEM PRODUCTS CORP — Types 300, 300ES, 300N or SB.

8C. **Spray-Applied Fire Resistive Materials* —** (Not Shown) As an alternate to Item 8, 8A, and 8B — Applied by spraying with water to the final thickness as shown in the table below, to the steel beam following the beam contour. Surfaces of the beam shall be clear and free of dirt, loose scale and oil. Minimum average and minimum individual density of 17.5 and 16 pcf, respectively for Type 300TW. Minimum average and minimum individual density of 22 and 19 pcf, respectively for Type 400. For method of density determination, refer to Design Information Section, Sprayed Material.

Restrained Assembly Rating, Hr	Unrestrained Assembly Rating, Hr	Unrestrained Beam Rating, Hr	Min Thkns On Beam In.
2	1	1	5/16
2	1-1/2	1-1/2	1/2
2	2	2	11/16
3	1-1/2	1-1/2	1/2
3	2	2	11/16
3	2	3	1-1/16

GREENTECH THERMAL INSULATION PRODUCTS MFG CO L L C — Type 400.

ISOLATEK INTERNATIONAL — Type 300TW or Type 400.

NEWKEM PRODUCTS CORP — Type 400.

The thickness of Spray-Applied Fire Resistive Materials shown in the table below are applicable when the beams are supporting solid subfloors or floor assemblies containing only fluted floor or form units.

	Min Thkns In.	
Rating Hr	Restrained Beam Rating Hr	Unrestrained Beam Rating Hr
1	7/16	7/16
1-1/2	1/2	3/4
2	13/16	1
3	1-5/16	1-5/16

4	1-5/8	1-5/8

CARBOLINE CO — Types 15, 15HY, 22.

8D. **Spray-Applied Fire Resistive Materials* —** (Not Shown) As an alternate to Item 8, 8A, 8B and 8C — Applied by mixing with water and spraying in one or more coats the final thicknesses as shown in the table below, on the steel beam following the beam contour. Surfaces of the beam shall be clean and free of dirt, loose scale and oil. Min avg and min ind density of 15/14 pcf respectively. Min avg and min ind density of 22/19 pcf respectively for Types Z-106, Z-106/G, Z-106/HY. For method of density determination, refer to Design Information Section.

Restrained Assembly Rating Hr	Unrestrained Assembly Rating Hr	Unrestrained Beam Rating Hr	Thkns on Beam In.
2	1	1	3/8
2	1-1/2	1-1/2	5/8
2	2	2	7/8
3	1-1/2	1-1/2	5/8
3	2	2	7/8
3	2	3	1-7/16

GCP KOREA INC — Types MK-6CBF, MK-6ED, MK-6HY, MK-6HY Extended Set, MK-6/HB, MK-6s, MK-10 HB, MK-10 HB Extended Set, Z-106, Z-106/G.

GCP APPLIED TECHNOLOGIES INC — MK-6HY, MK-6HY Extended Set, MK-6/HB, MK-6s, MK-10 HB, MK-10 HB Extended Set, RG, Z-106, Z-106/G, Z106/HY.

9. **Metal Lath —** (Not Shown) — Required when Type 7HD is applied - Metal lath shall be 3/8 in. expanded diamond mesh, weighing 3.4 lb per sq yd. Secured to underside through steel washers with an outside diam of 1/2 in. with fasteners spaced 12 in. OC in both directions with lath edges overlapped approx 3 in.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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